

# PolyMax

## Plastics Library v1.7



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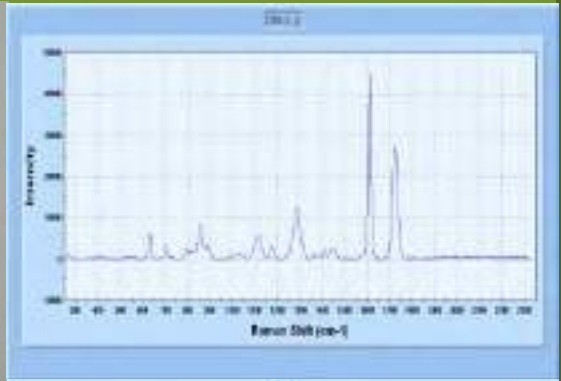
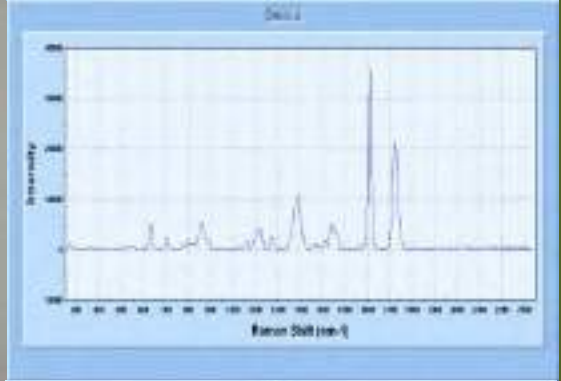
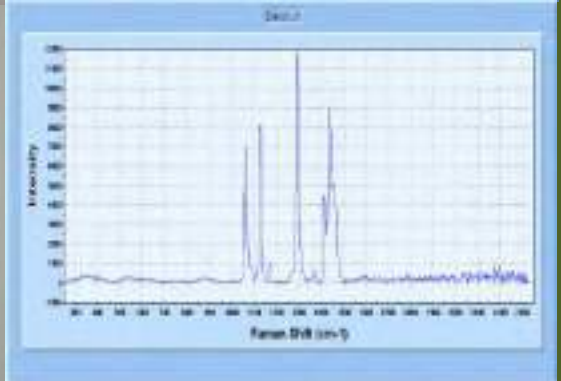
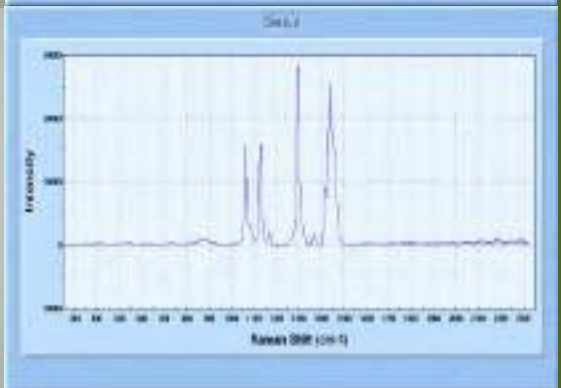
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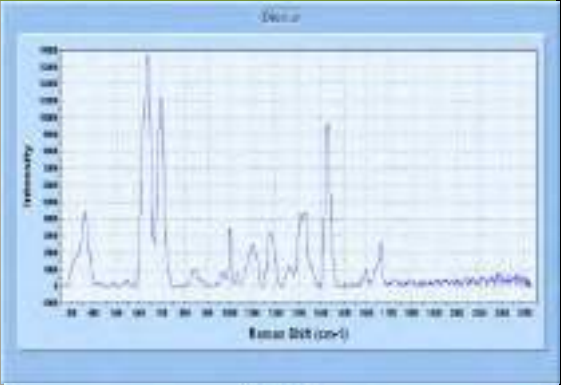
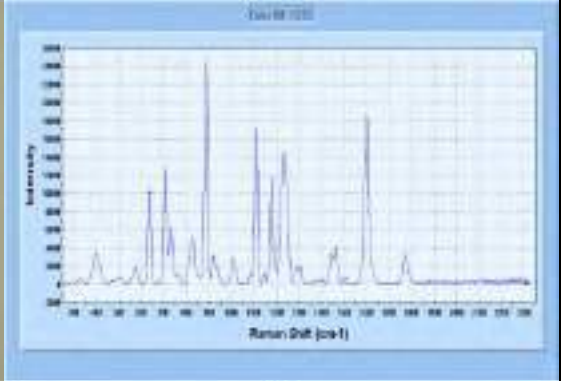
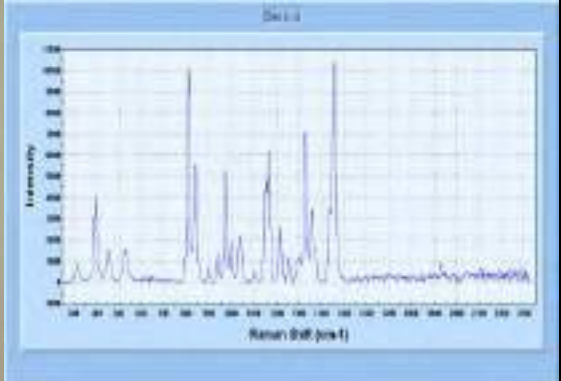
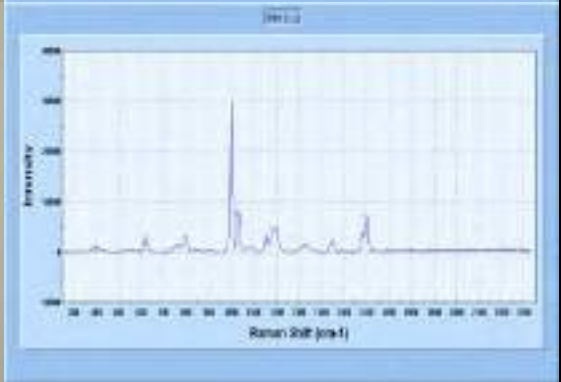
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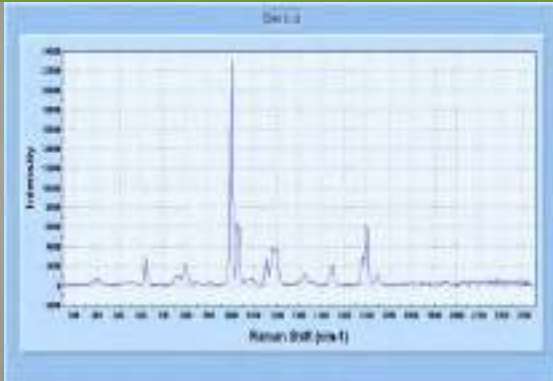
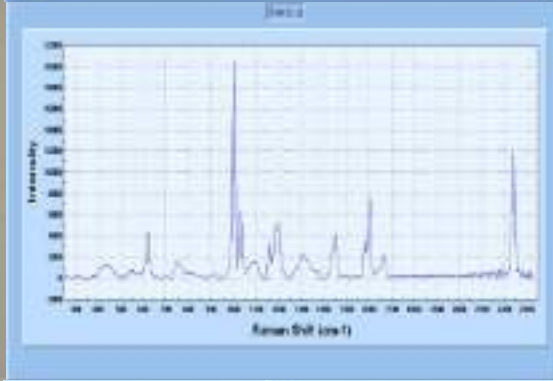
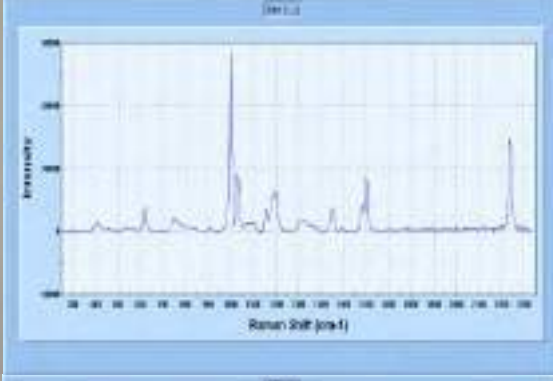
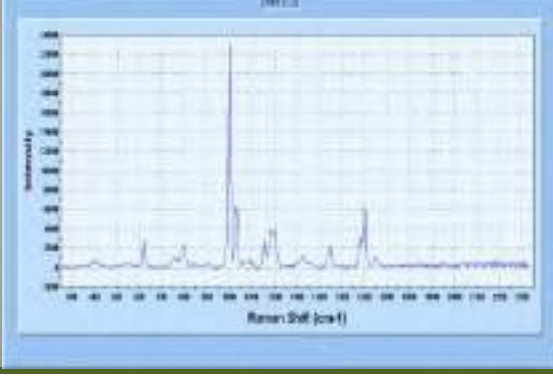
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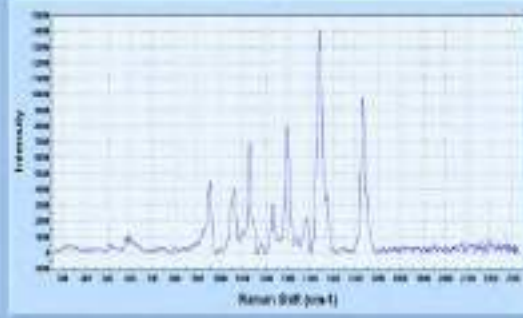
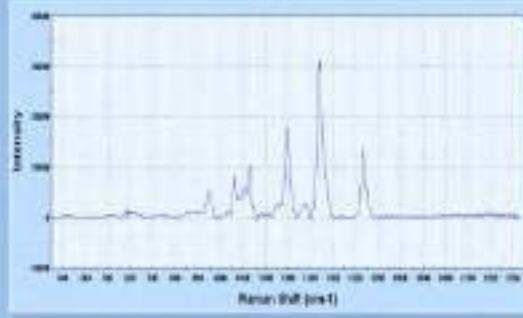
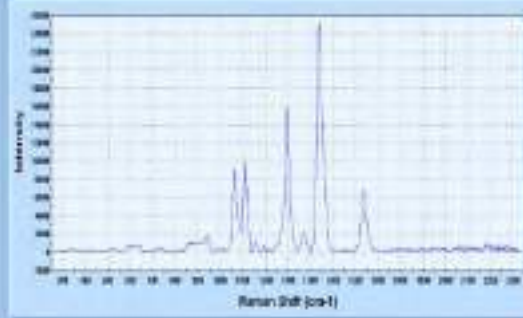
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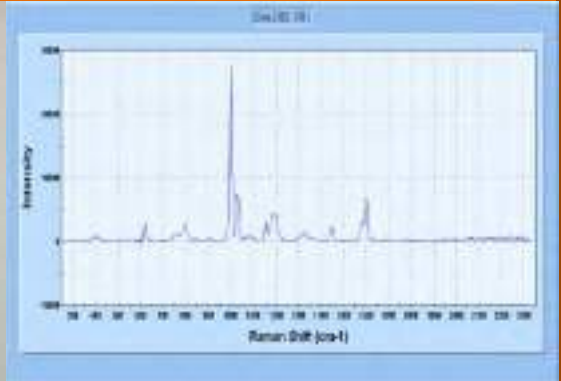
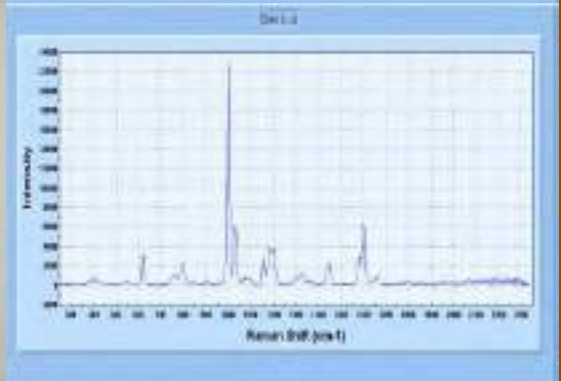
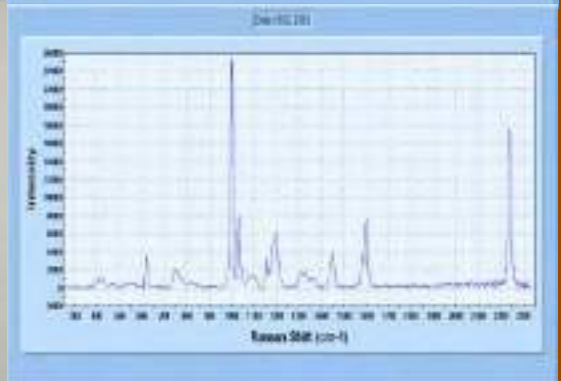
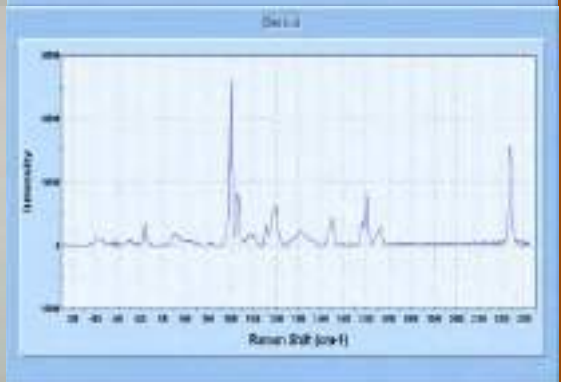
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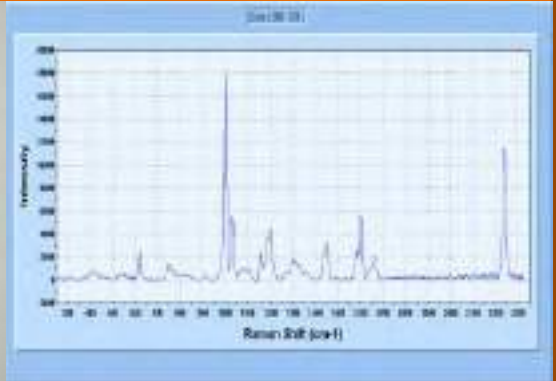
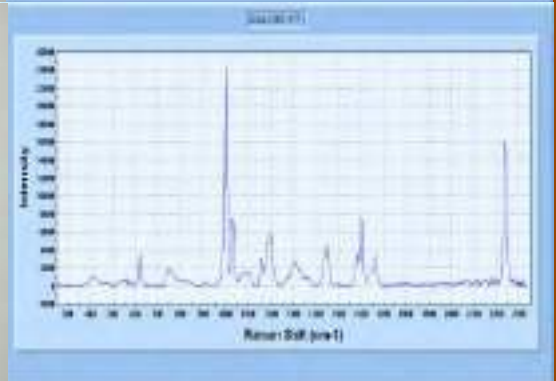
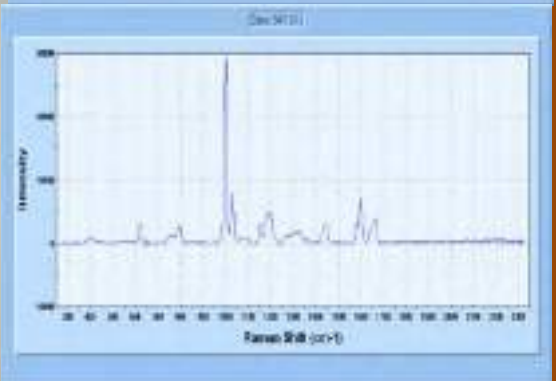
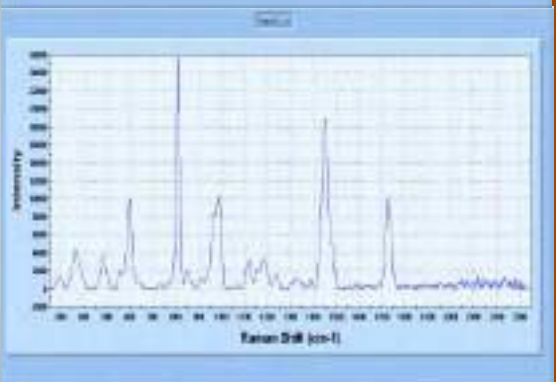
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| 1-18  | Nylon 12   |  |  |

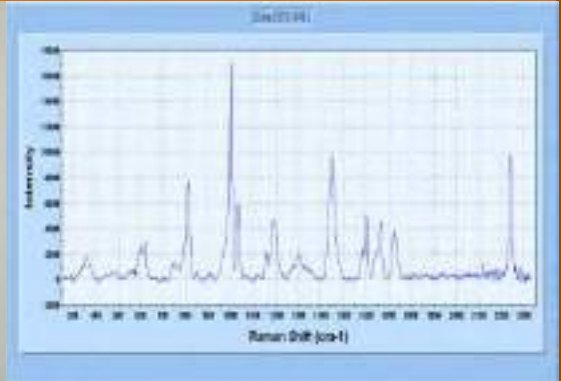
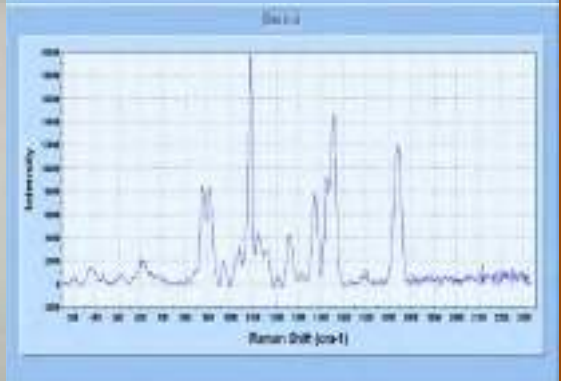
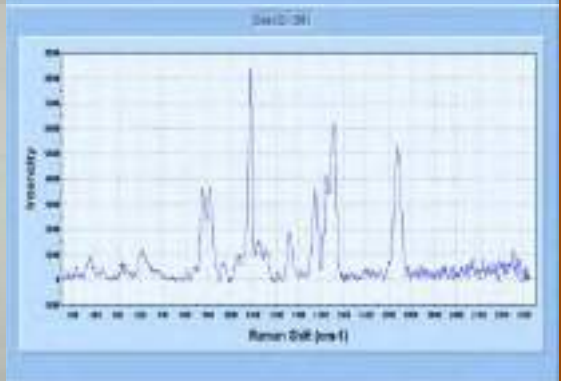
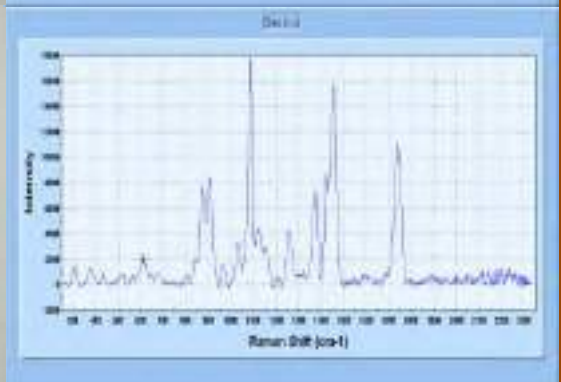
# PolyMax - Resin Kit (RK)

| Index | ID   | Picture                                                                             | Spectrum                                                                             |
|-------|------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 2-1   | PS   |    |    |
| 2-3   | HIPS |   |   |
| 2-4   | SAN  |  |  |
| 2-5   | ABS  |  |  |

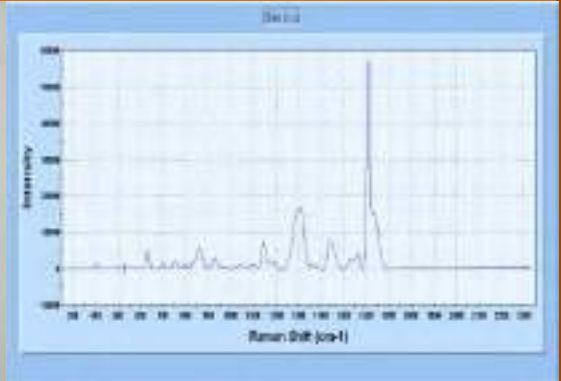
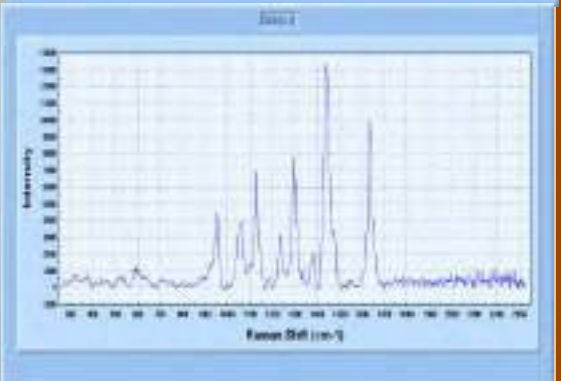
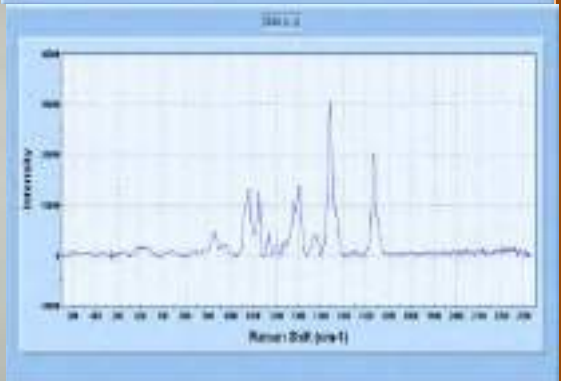
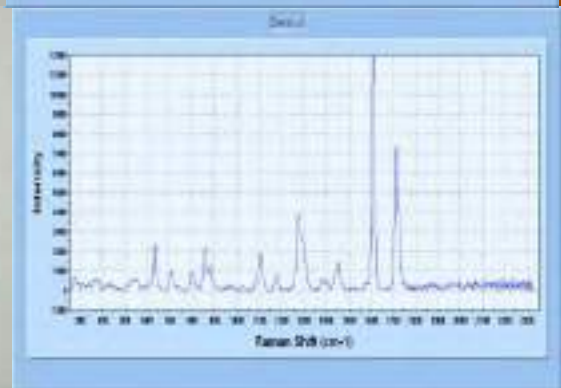
# PolyMax - Resin Kit (RK)

| Index | ID              | Picture                                                                             | Spectrum                                                                             |
|-------|-----------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 2-6   | ABS             |    |    |
| 2-7   | ABS HIGH IMPACT |   |   |
| 2-8   | SBC             |  |  |
| 2-9   | ACRYLIC         |  |  |

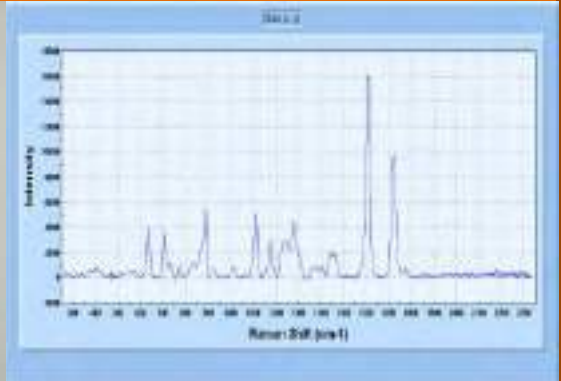
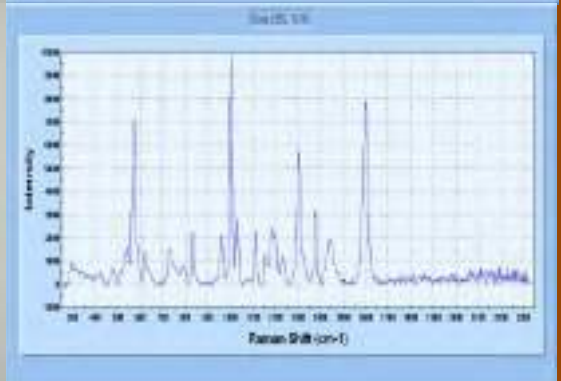
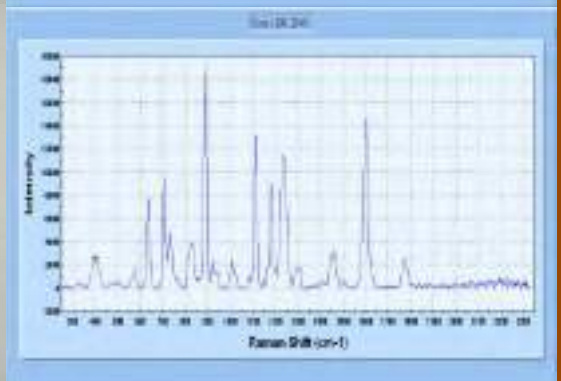
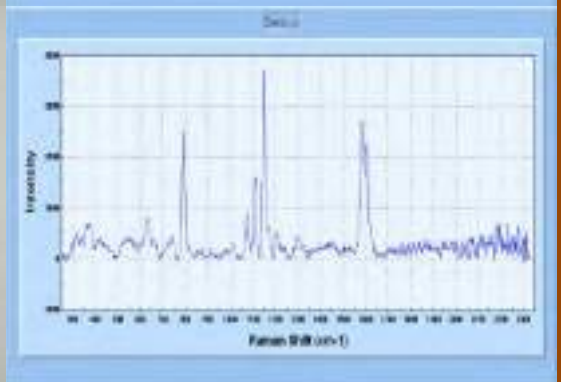
# PolyMax - Resin Kit (RK)

| Index | ID      | Picture                                                                             | Spectrum                                                                             |
|-------|---------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 2-10  | ACRYLIC |    |    |
| 2-11  | CA      |   |   |
| 2-12  | CAB     |  |  |
| 2-13  | CAP     |  |  |

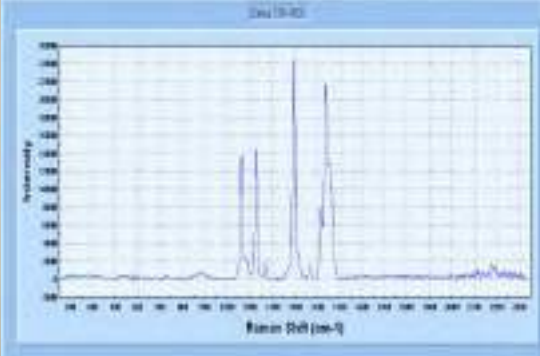
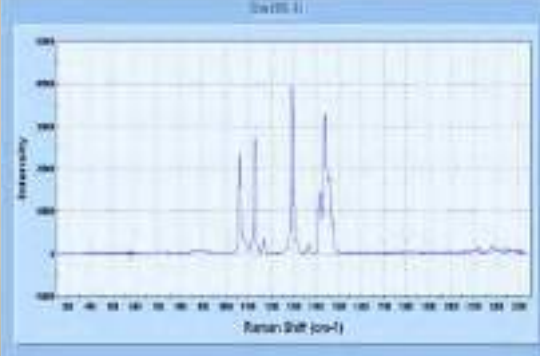
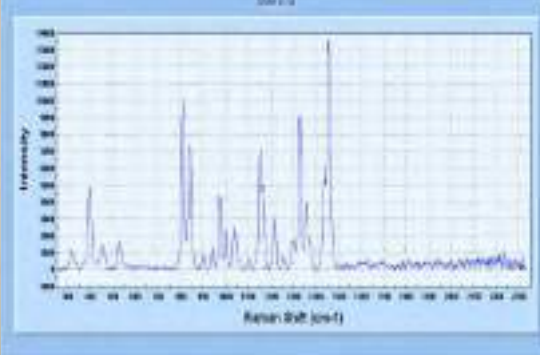
# PolyMax - Resin Kit (RK)

| Index | ID        | Picture                                                                             | Spectrum                                                                             |
|-------|-----------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 2-14  | NYLON     |    |    |
| 2-15  | NYLON 6,6 |   |   |
| 2-16  | NYLON 6   |  |  |
| 2-17  | PBT       |  |  |

# PolyMax - Resin Kit (RK)

| Index | ID   | Picture                                                                             | Spectrum                                                                             |
|-------|------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 2-18  | PETG |    |    |
| 2-19  | PPO  |   |   |
| 2-20  | PC   |  |  |
| 2-21  | PSU  |  |  |

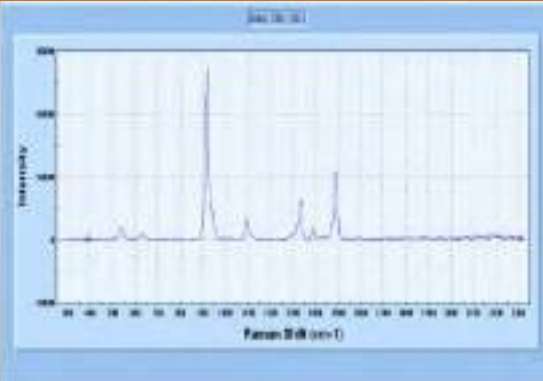
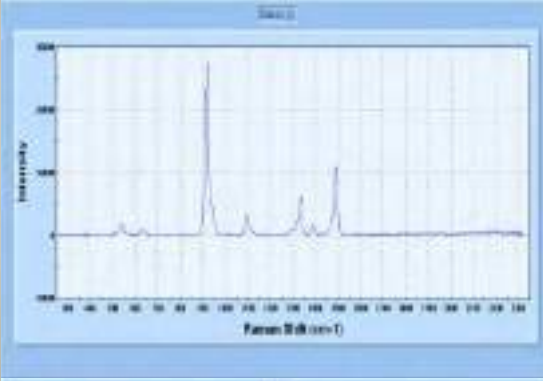
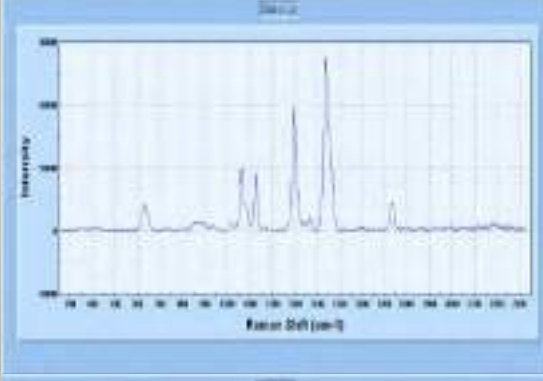
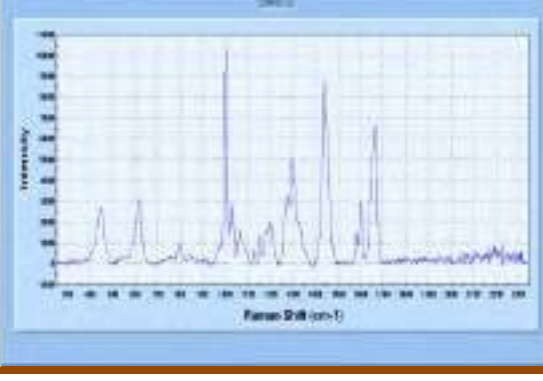
# PolyMax - Resin Kit (RK)

| Index | ID   | Picture                                                                             | Spectrum                                                                             |
|-------|------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 2-22  | PB   |    |    |
| 2-24  | LDPE |   |    |
| 2-25  | HDPE |  |  |
| 2-26  | PP   |  |  |

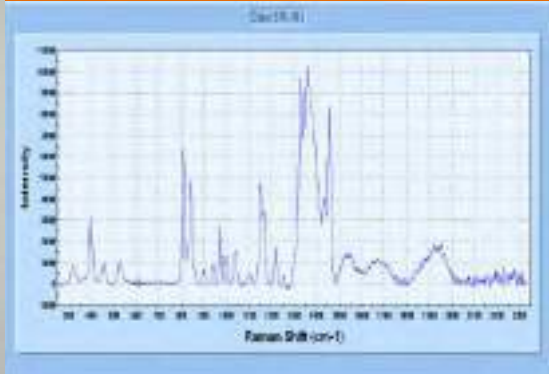
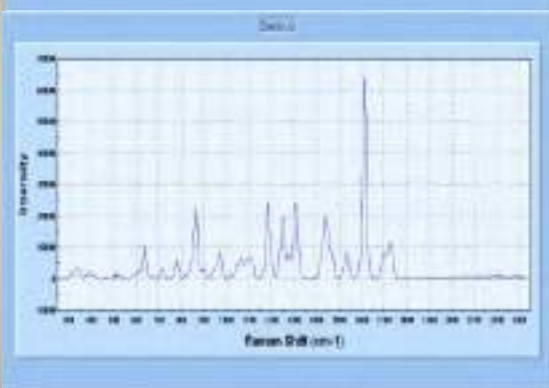
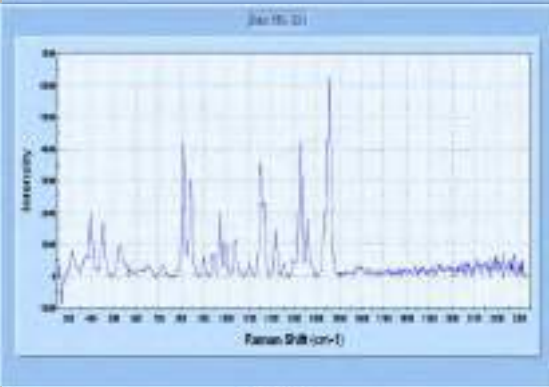
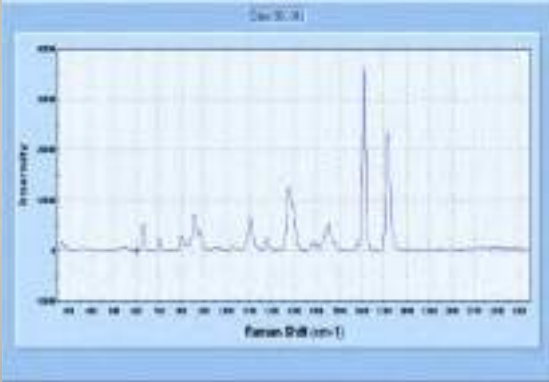
# PolyMax - Resin Kit (RK)

| Index | ID | Picture                                                                           | Spectrum |
|-------|----|-----------------------------------------------------------------------------------|----------|
| 2-27  | PP |  |          |

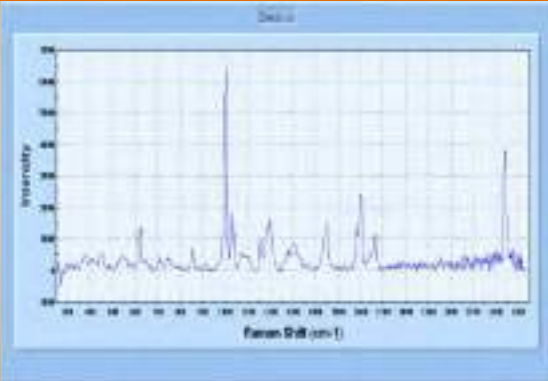
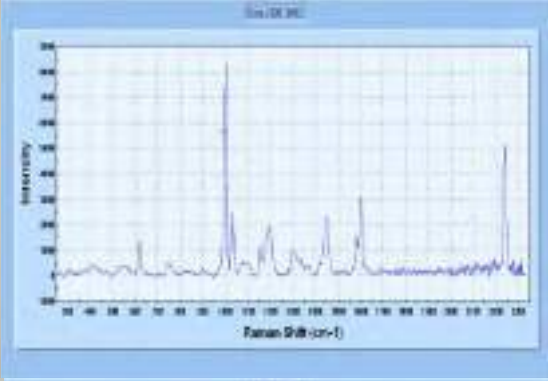
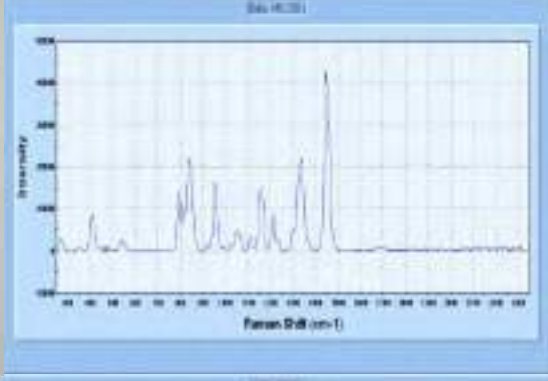
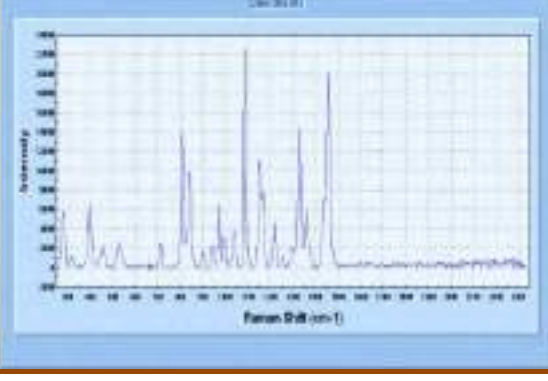
# PolyMax - Resin Kit (RK)

| Index | ID                  | Picture                                                                             | Spectrum                                                                             |
|-------|---------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 2-31  | ACETAL              |    |    |
| 2-32  | ACETAL              |   |   |
| 2-34  | EVA                 |  |  |
| 2-35  | SYNTHETIC ELASTOMER |  |  |

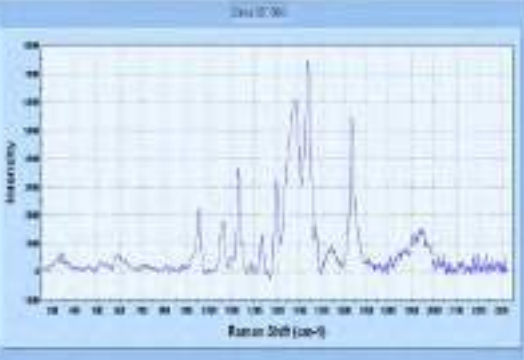
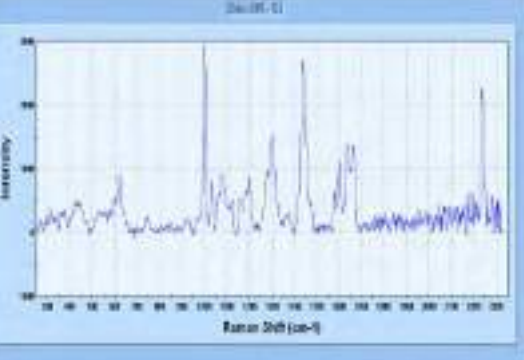
# PolyMax - Resin Kit (RK)

| Index | ID                    | Picture                                                                             | Spectrum                                                                             |
|-------|-----------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 2-36  | PP GLASS<br>FILLED    |    |    |
| 2-37  | TPU                   |   |   |
| 2-38  | PP FLAME<br>RETARDANT |  |  |
| 2-39  | TPEE                  |  |  |

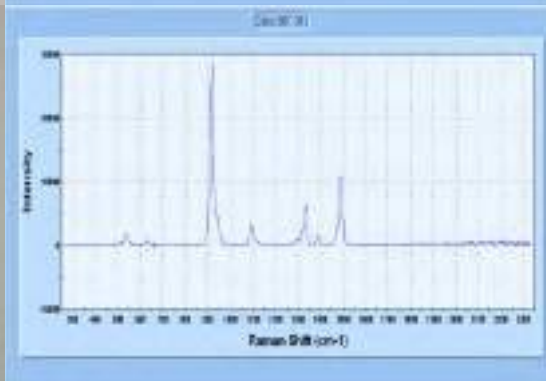
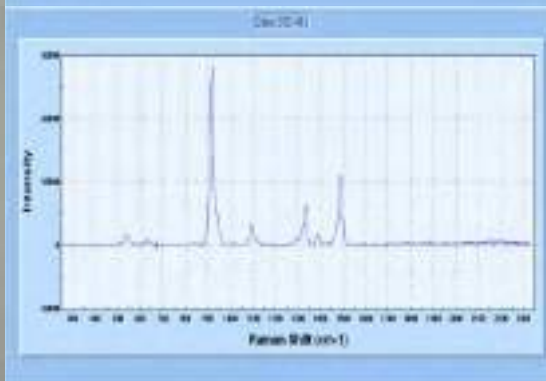
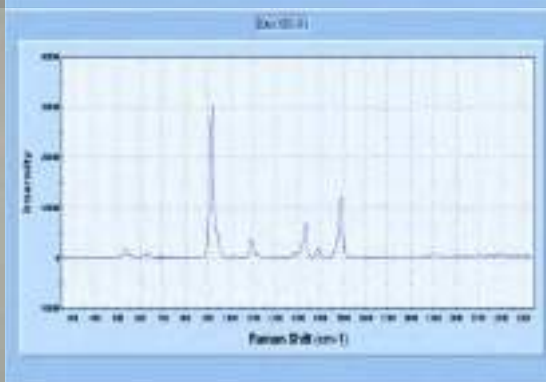
# PolyMax - Resin Kit (RK)

| Index | ID                     | Picture                                                                             | Spectrum                                                                             |
|-------|------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 2-40  | ABS FLAME<br>RETARDANT |    |    |
| 2-42  | STRENIC<br>TERPOLYMER  |   |   |
| 2-43  | PMP                    |  |  |
| 2-45  | PP-CaCO3               |  |  |

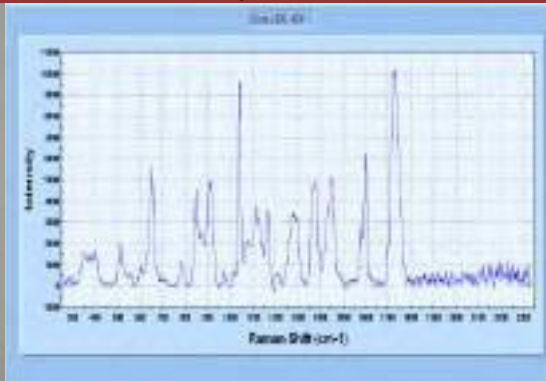
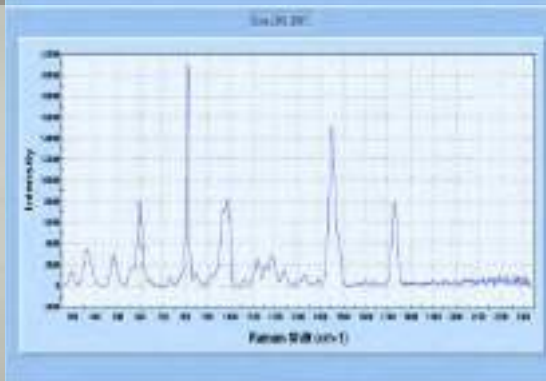
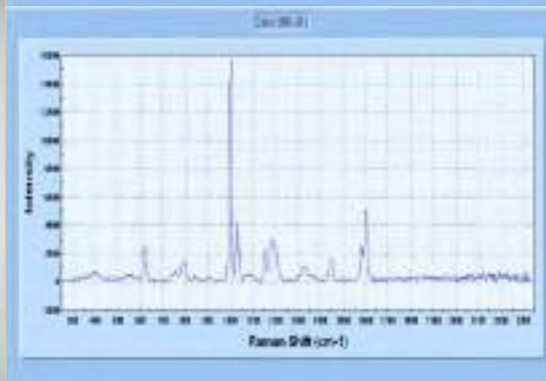
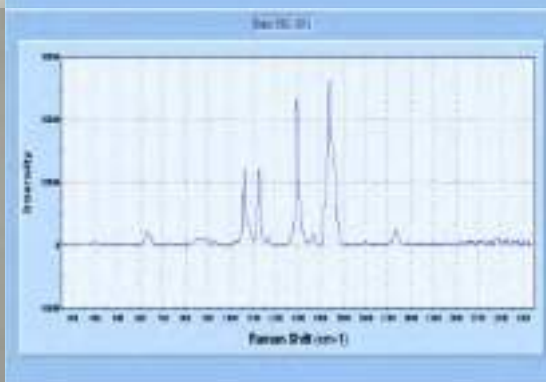
# PolyMax - Resin Kit (RK)

| Index | ID                    | Picture                                                                           | Spectrum                                                                           |
|-------|-----------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 2-47  | NYLON 66<br>33% GLASS |  |  |
| 2-50  | ABS-NYLON             |  |  |

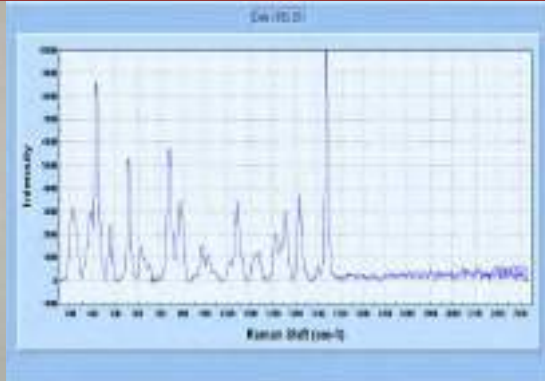
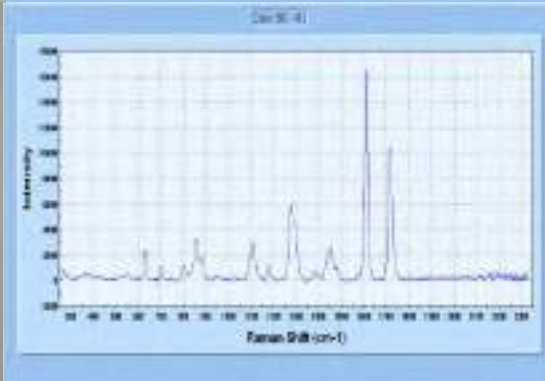
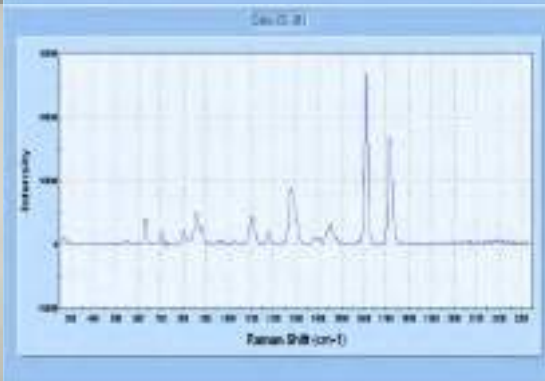
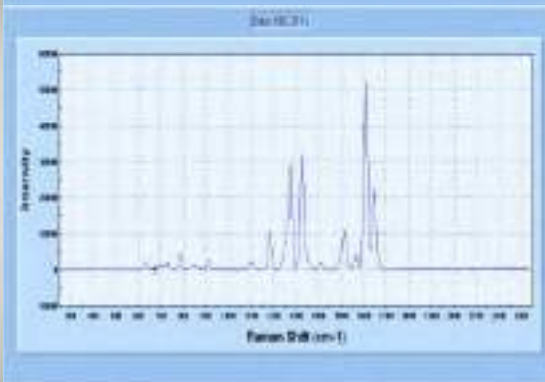
# PolyMax - Variety 1 (VR1)

| Index | ID     | Picture                                                                             | Spectrum                                                                             |
|-------|--------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 3-1   | ABS    |    |    |
| 3-2   | ACETAL |   |   |
| 3-3   | ACETAL |  |  |
| 3-4   | ACETAL |  |  |

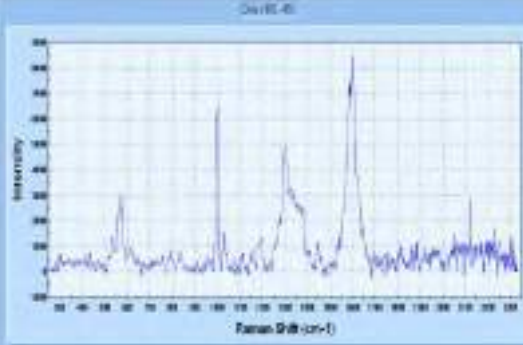
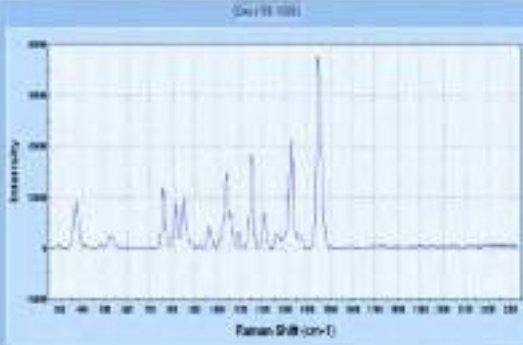
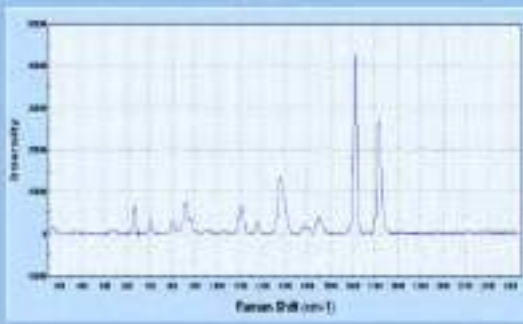
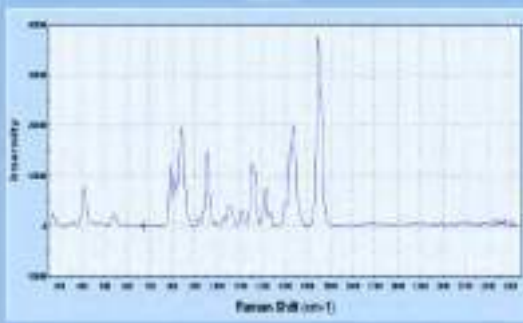
# PolyMax - Variety 1 (VR1)

| Index | ID                   | Picture                                                                             | Spectrum                                                                             |
|-------|----------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 3-5   | CELLULOSE<br>ACETATE |    |    |
| 3-6   | ACRYLIC<br>PMMA      |   |   |
| 3-7   | EPS                  |  |  |
| 3-8   | EVA                  |  |  |

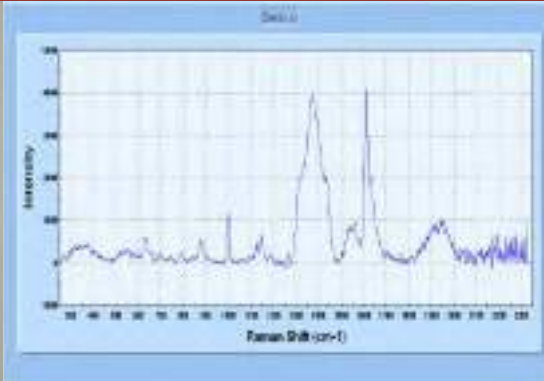
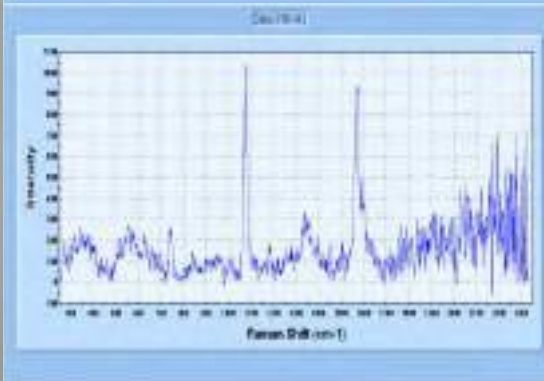
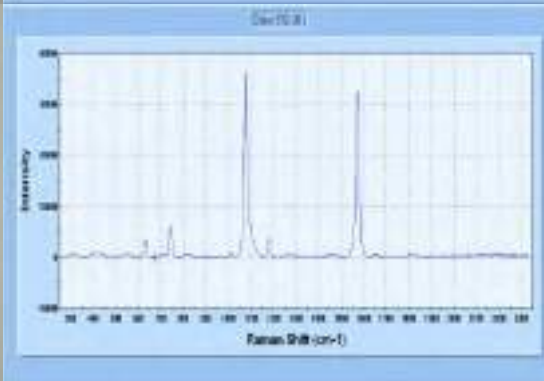
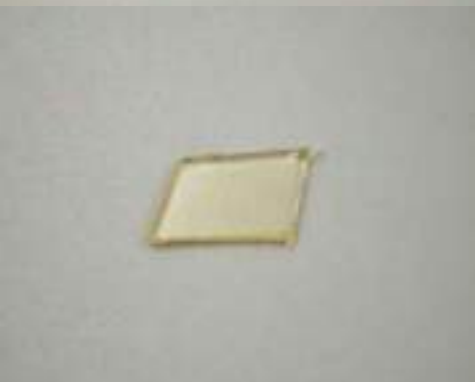
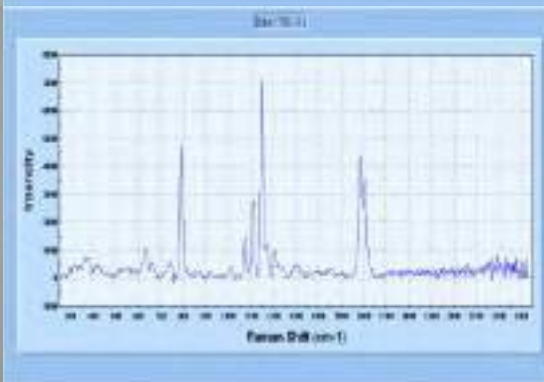
# PolyMax - Variety 1 (VR1)

| Index | ID       | Picture                                                                             | Spectrum                                                                             |
|-------|----------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 3-9   | HALAR    |    |    |
| 3-10  | HYTREL   |   |   |
| 3-11  | HYTREL-F |  |  |
| 3-13  | KEVLAR   |  |  |

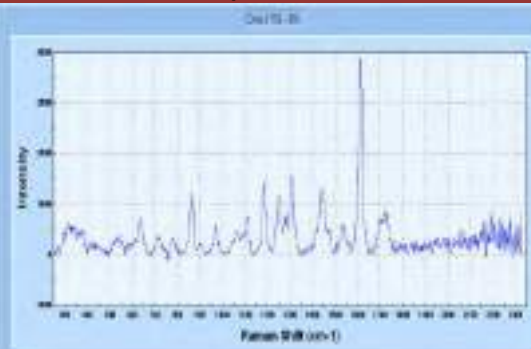
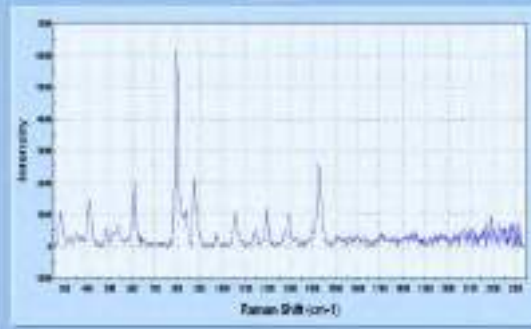
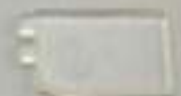
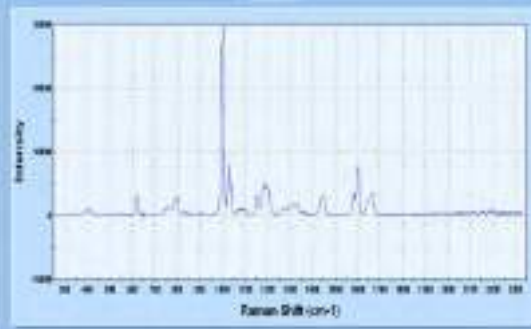
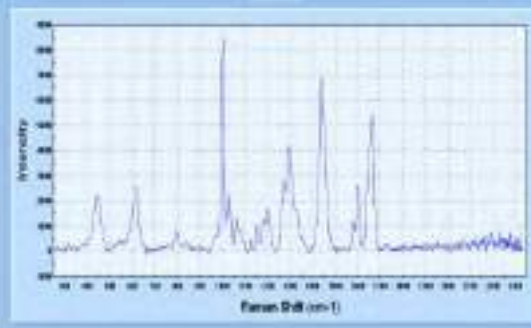
# PolyMax - Variety 1 (VR1)

| Index | ID    | Picture                                                                             | Spectrum                                                                             |
|-------|-------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 3-14  | NORYL |    |    |
| 3-15  | PB    |    |    |
| 3-16  | PBT   |  |  |
| 3-18  | PMP   |  |  |

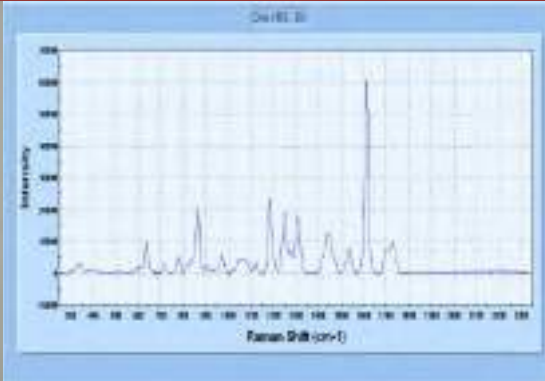
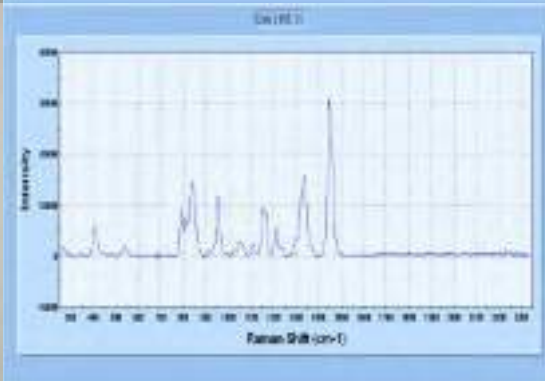
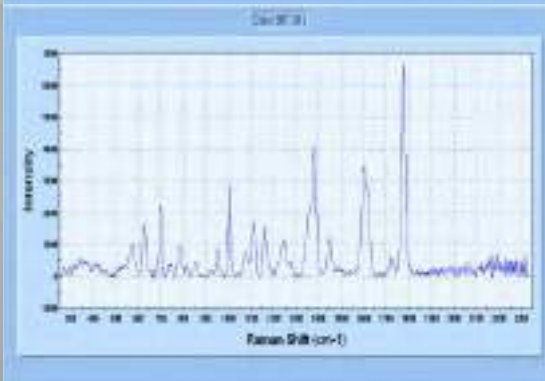
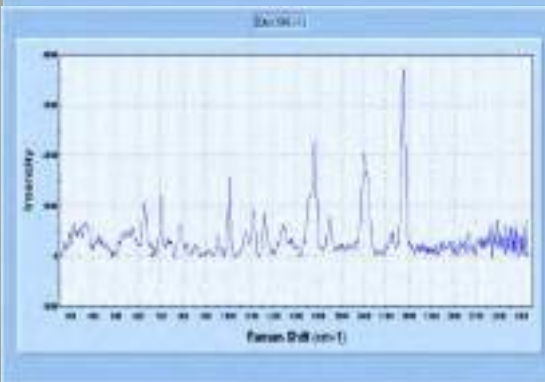
# PolyMax - Variety 1 (VR1)

| Index | ID    | Picture                                                                             | Spectrum                                                                             |
|-------|-------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 3-19  | PPA   |    |    |
| 3-20  | PPS   |   |   |
| 3-21  | PPS-F |  |  |
| 3-22  | PSF   |  |  |

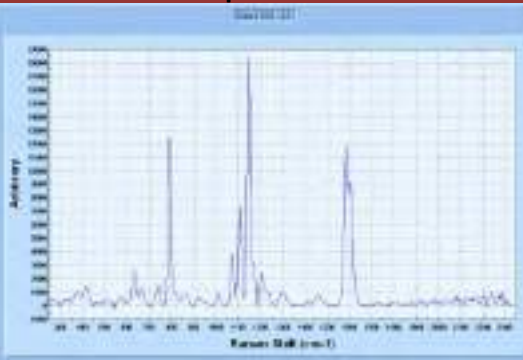
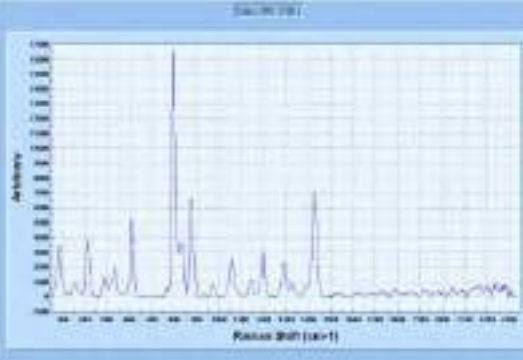
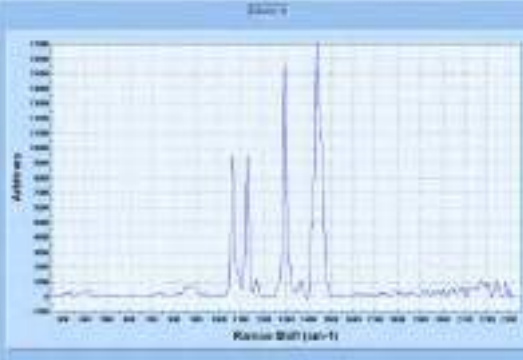
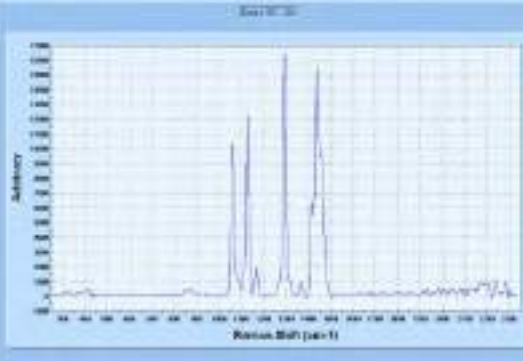
# PolyMax - Variety 1 (VR1)

| Index | ID   | Picture                                                                             | Spectrum                                                                             |
|-------|------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 3-23  | PUR  |    |    |
| 3-24  | PVDF |    |    |
| 3-25  | SB   |  |  |
| 3-26  | SBC  |  |  |

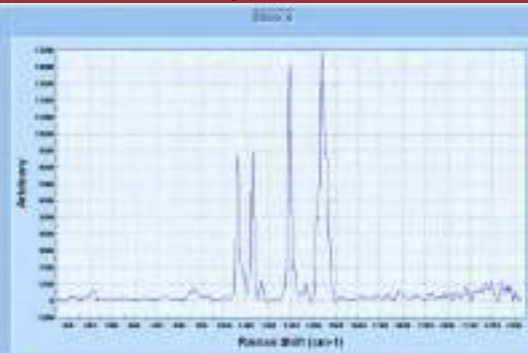
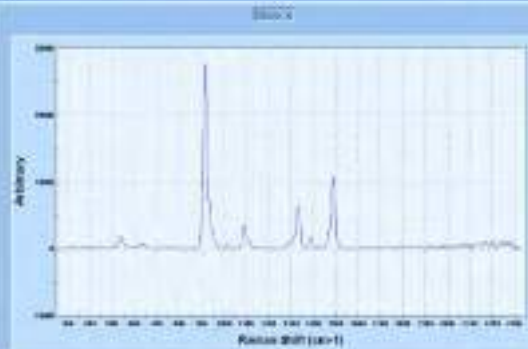
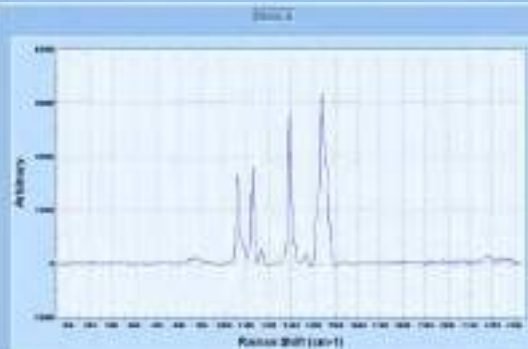
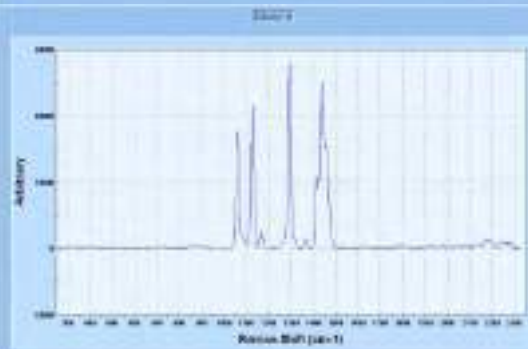
# PolyMax - Variety 1 (VR1)

| Index | ID      | Picture                                                                             | Spectrum                                                                             |
|-------|---------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 3-27  | TPU     |    |    |
| 3-29  | TPX/PMP |   |   |
| 3-30  | ULTEM   |  |  |
| 3-31  | ULTEM-R |  |  |

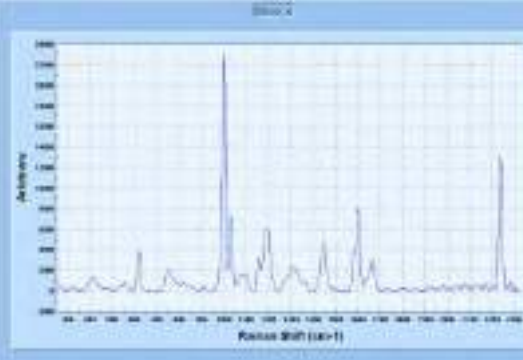
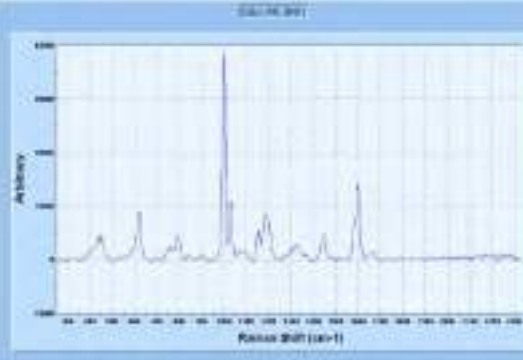
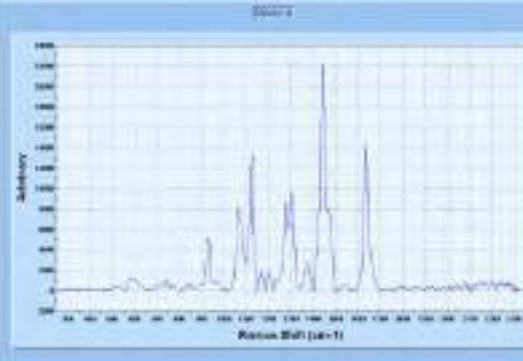
# PolyMax - Variety 1 (VR1)

| Index | ID   | Picture                                                                             | Spectrum                                                                             |
|-------|------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 3-32  | PSU  |    |    |
| 3-33  | PVDF |    |    |
| 3-34  | LDPE |  |  |
| 3-35  | HDPE |  |  |

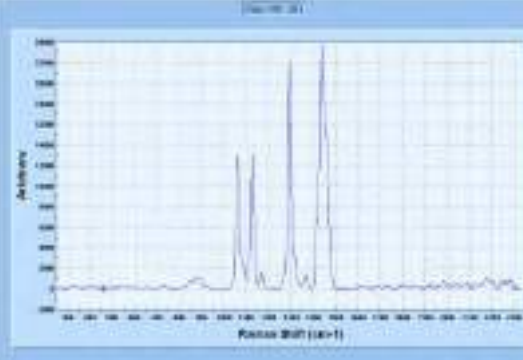
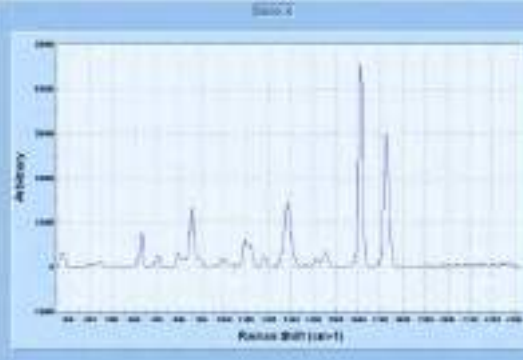
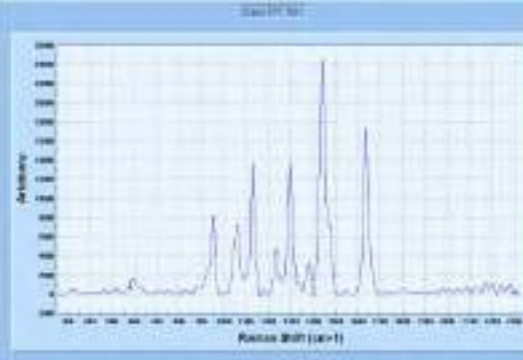
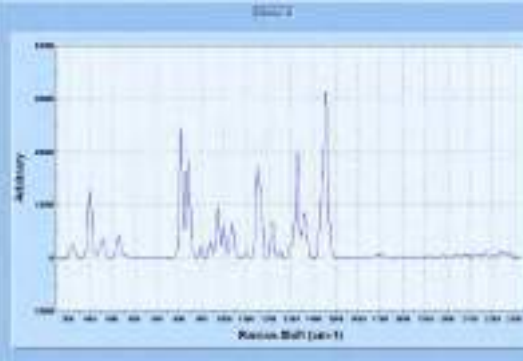
# PolyMax - Variety 1 (VR1)

| Index | ID      | Picture                                                                             | Spectrum                                                                             |
|-------|---------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 3-36  | UHMW PE |    |    |
| 3-37  | ACETAL  |    |    |
| 3-38  | UMHW PE |  |  |
| 3-39  | HDPE    |  |  |

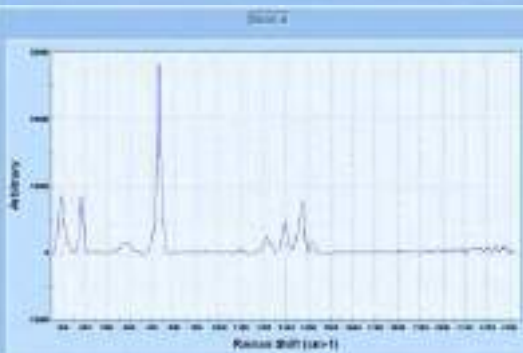
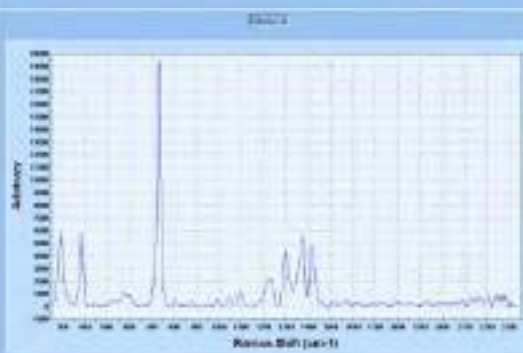
# PolyMax - Variety 1 (VR1)

| Index | ID             | Picture                                                                             | Spectrum                                                                             |
|-------|----------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 3-40  | Rexolite       |    |    |
| 3-41  | ABS            |    |    |
| 3-42  | Polystyrene HI |  |  |
| 3-43  | NYLON 6 CAST   |  |  |

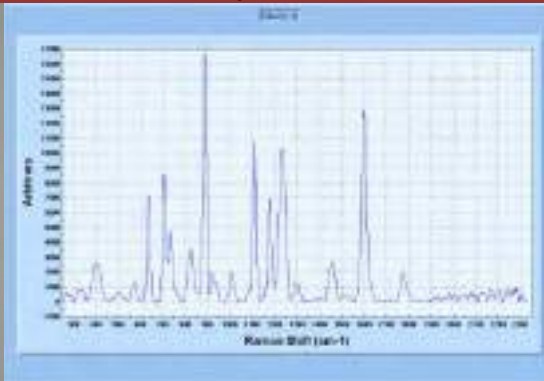
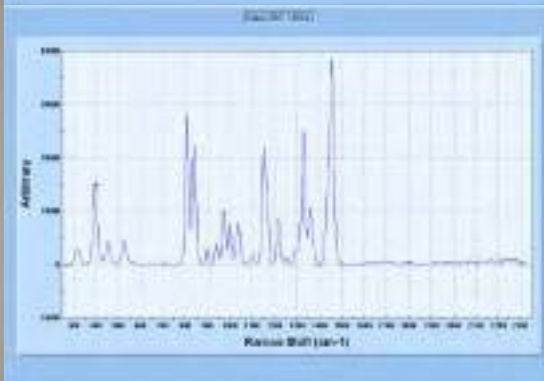
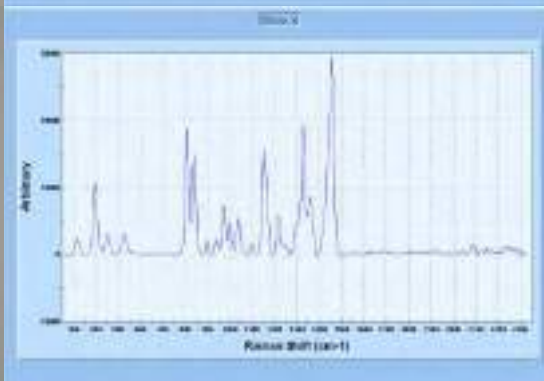
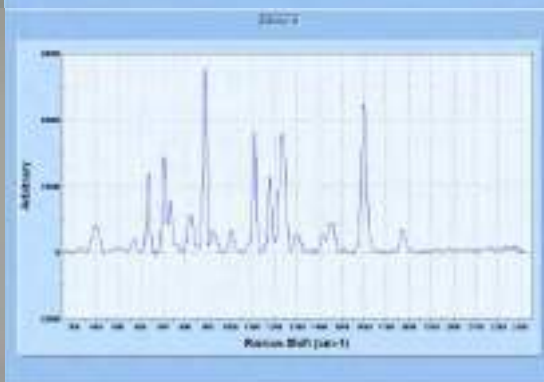
# PolyMax - Variety 1 (VR1)

| Index | ID                       | Picture                                                                             | Spectrum                                                                             |
|-------|--------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 3-44  | LDPE                     |    |    |
| 3-45  | Polyester<br>PET         |    |    |
| 3-46  | NYLON<br>6,6<br>Extruded |  |  |
| 3-47  | Polypropyl<br>ene        |  |  |

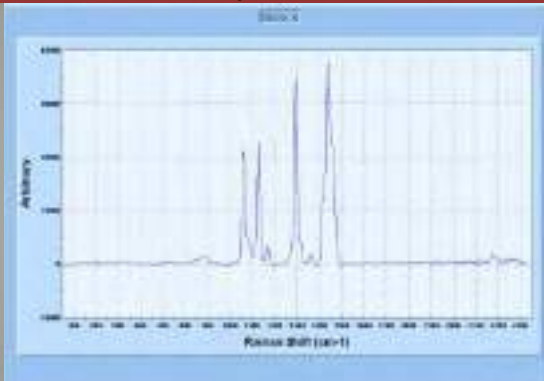
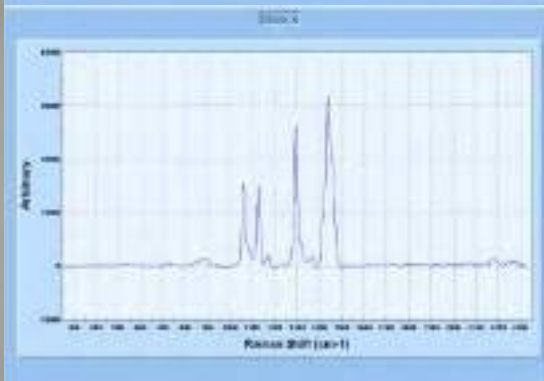
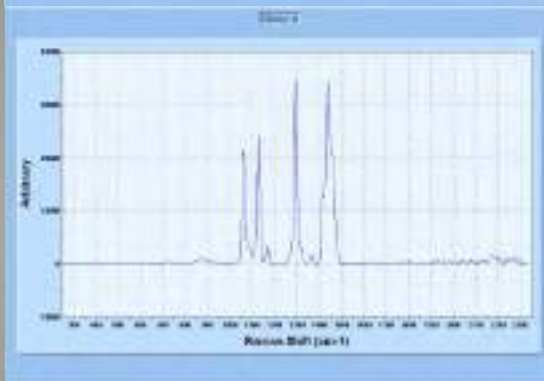
# PolyMax - Variety 1 (VR1)

| Index | ID         | Picture                                                                             | Spectrum                                                                             |
|-------|------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 3-48  | PVC        |    |    |
| 3-49  | FEP Virgin |    |    |
| 3-50  | PLA        |  |  |
| 3-51  | PFA        |  |  |

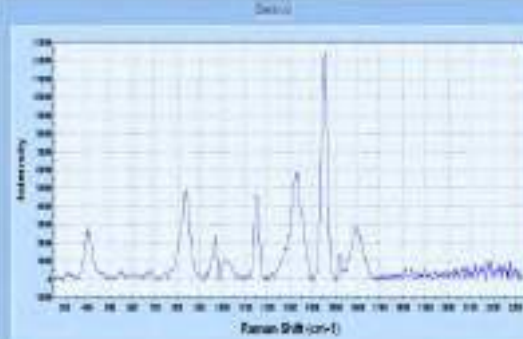
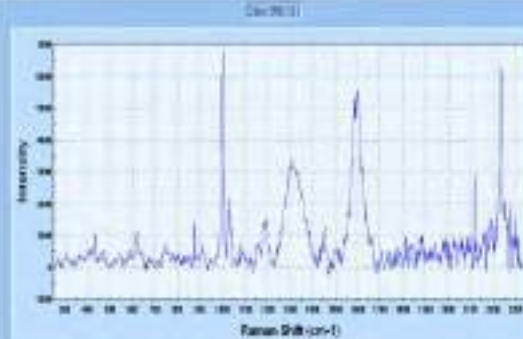
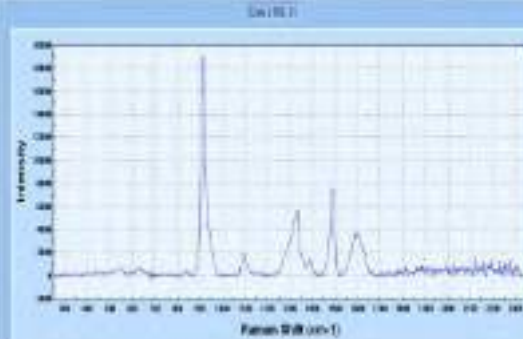
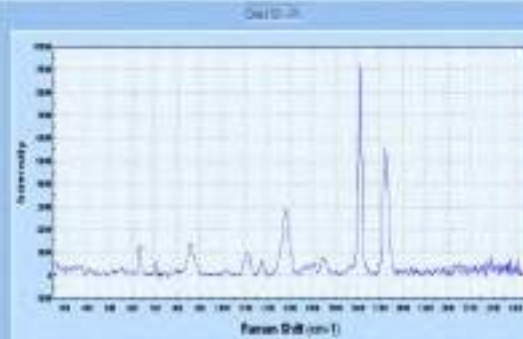
# PolyMax - Variety 1 (VR1)

| Index | ID | Picture                                                                             | Spectrum                                                                             |
|-------|----|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 3-52  | PC |    |    |
| 3-53  | PP |   |   |
| 3-54  | PP |  |  |
| 3-55  | PC |  |  |

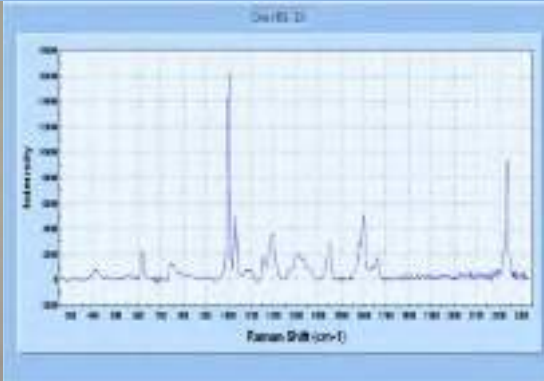
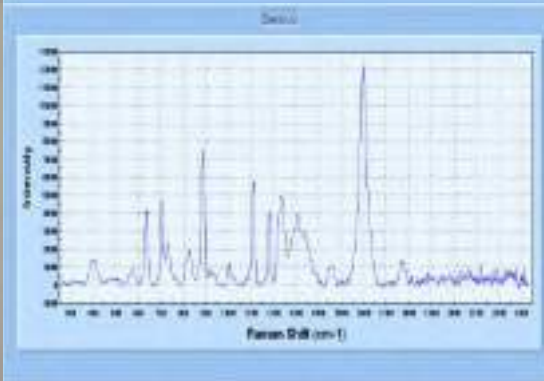
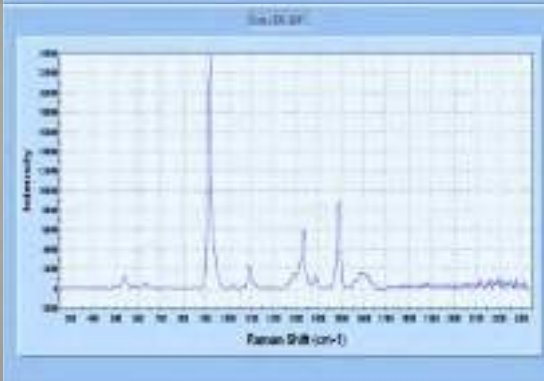
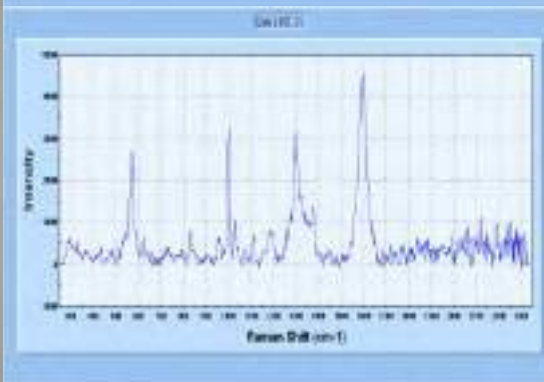
# PolyMax - Variety 1 (VR1)

| Index | ID   | Picture                                                                             | Spectrum                                                                             |
|-------|------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 3-56  | MDPE |    |    |
| 3-57  | LDPE |   |   |
| 3-58  | HDPE |  |  |

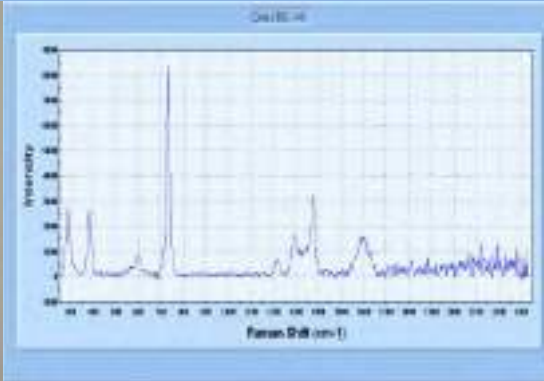
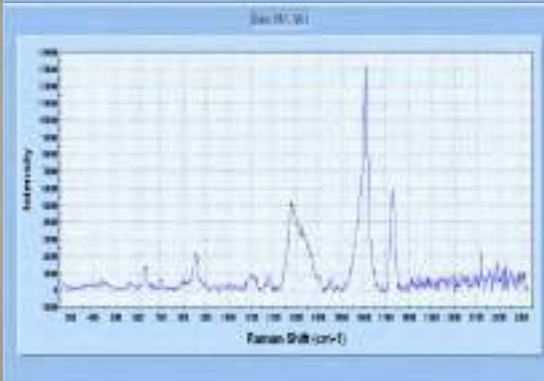
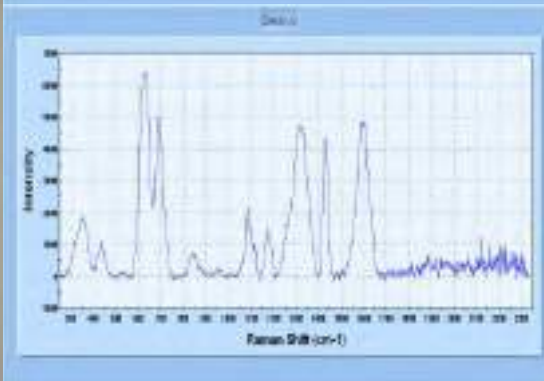
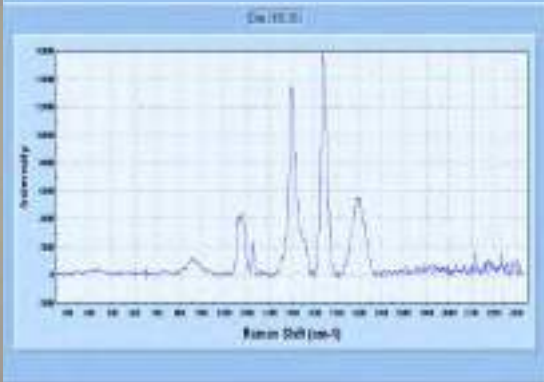
# PolyMax - Dark (DK)

| Index | ID     | Picture                                                                             | Spectrum                                                                             |
|-------|--------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 4-1   | PP     |    |    |
| 4-2   | ABS    |    |    |
| 4-3   | ACETAL |  |  |
| 4-4   | PET    |  |  |

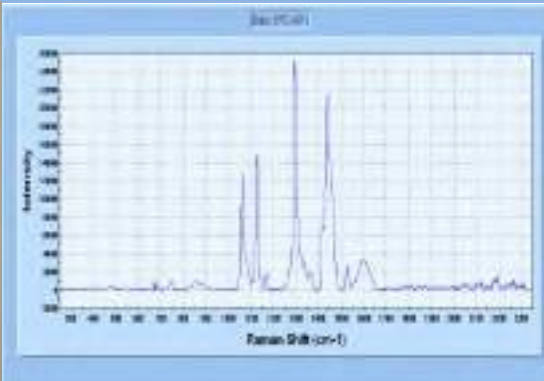
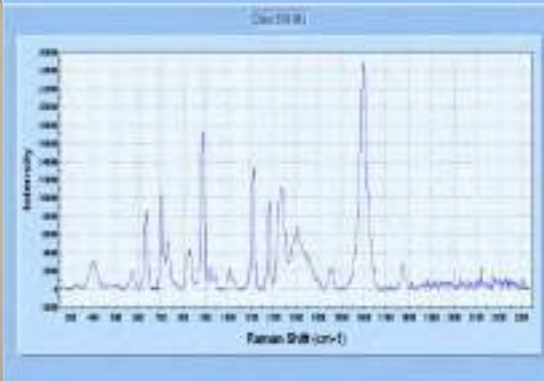
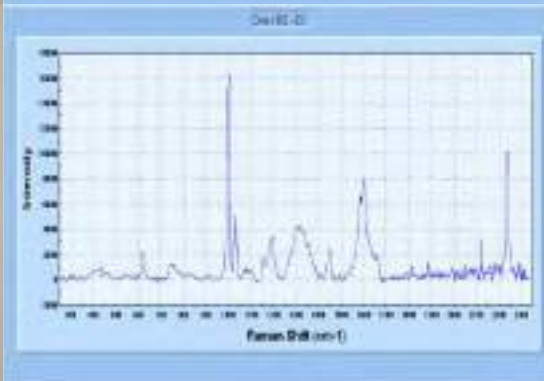
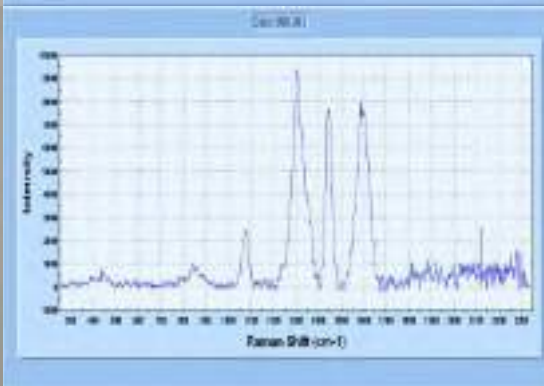
# PolyMax - Dark (DK)

| Index | ID           | Picture                                                                             | Spectrum                                                                             |
|-------|--------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 4-5   | ABS          |    |    |
| 4-6   | PC           |   |   |
| 4-7   | ACETAL       |  |  |
| 4-8   | NORYL<br>PPO |  |  |

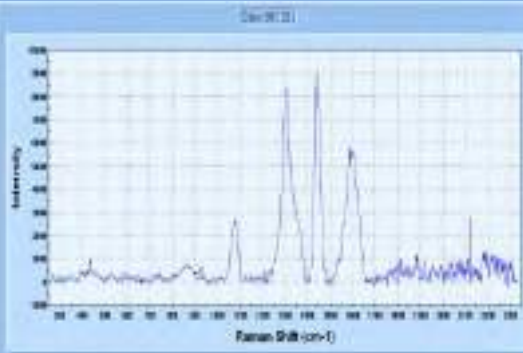
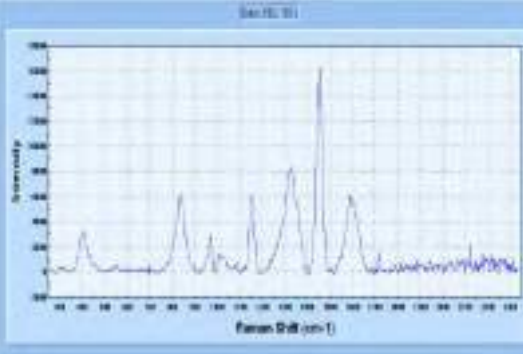
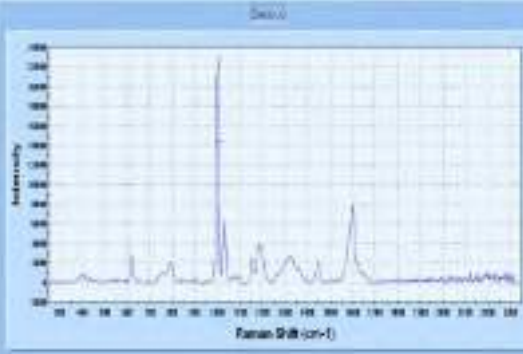
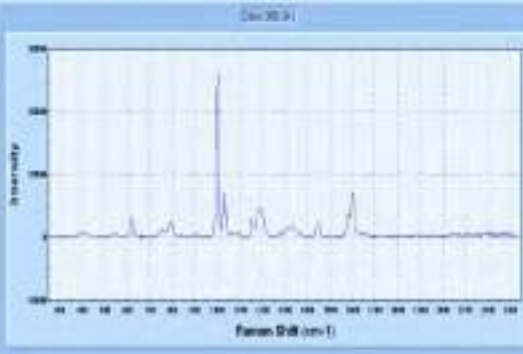
# PolyMax - Dark (DK)

| Index | ID             | Picture                                                                             | Spectrum                                                                             |
|-------|----------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 4-9   | TEFLON<br>PTFE |    |    |
| 4-10  | PET            |   |   |
| 4-11  | PVC            |  |  |
| 4-12  | HDPE           |  |  |

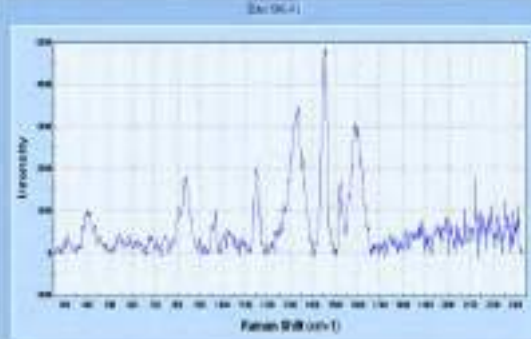
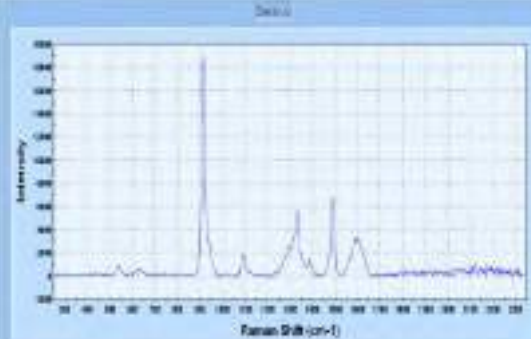
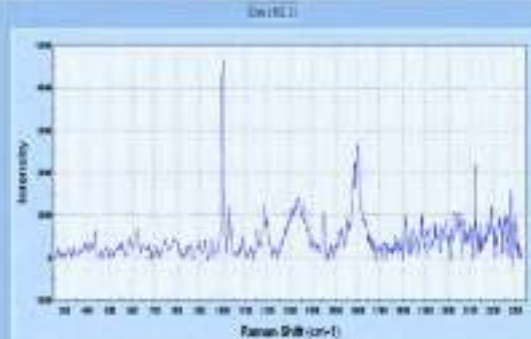
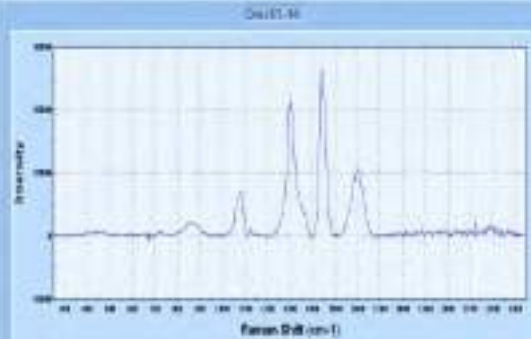
# PolyMax - Dark (DK)

| Index | ID      | Picture                                                                             | Spectrum                                                                             |
|-------|---------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 4-13  | PE UHMW |    |    |
| 4-14  | PC      |   |   |
| 4-15  | ABS     |  |  |
| 4-16  | PE      |  |  |

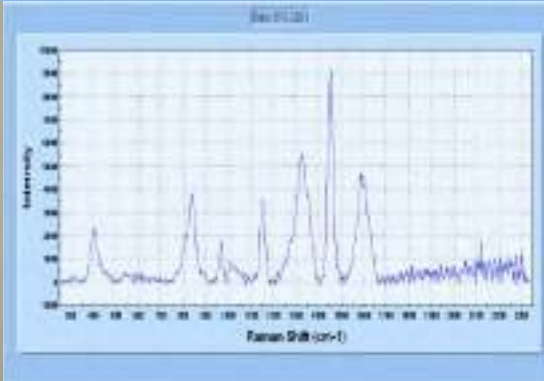
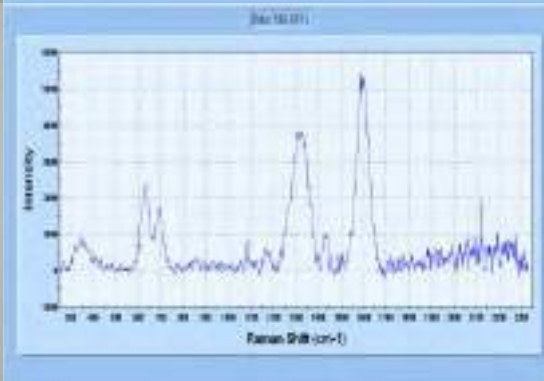
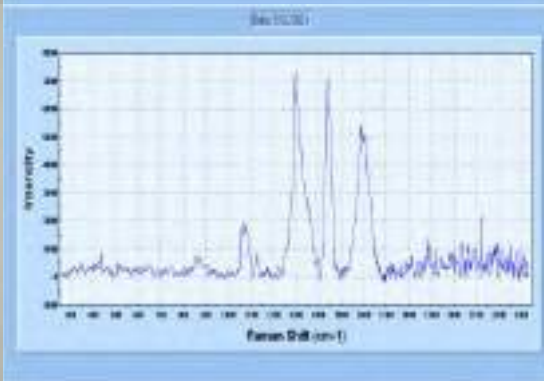
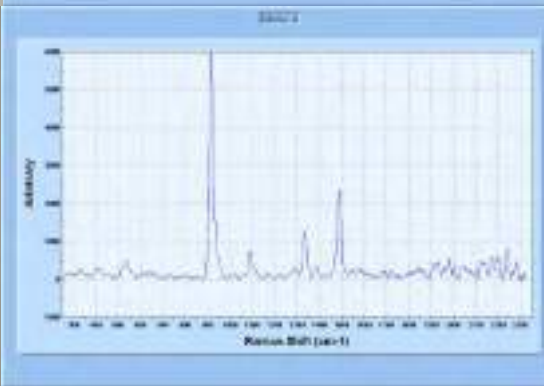
# PolyMax - Dark (DK)

| Index | ID    | Picture                                                                             | Spectrum                                                                             |
|-------|-------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 4-17  | PE    |    |    |
| 4-18  | PP    |    |    |
| 4-19  | PS    |  |  |
| 4-20  | PS HI |  |  |

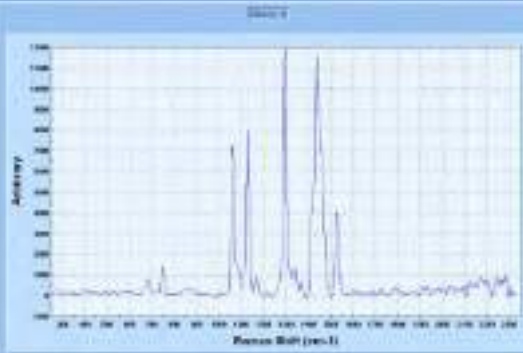
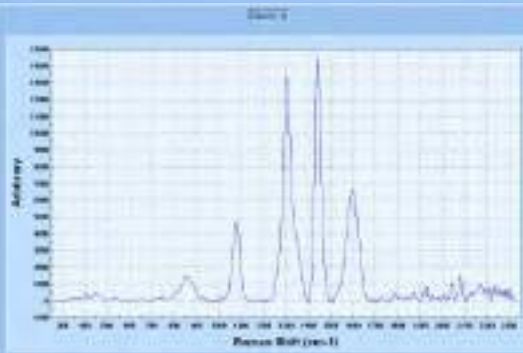
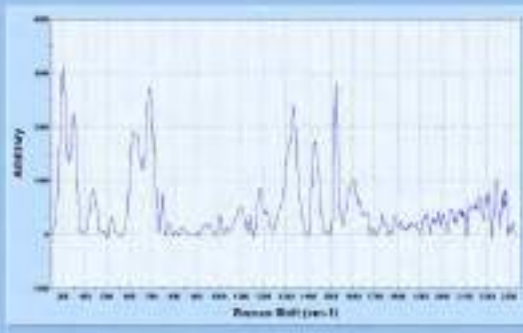
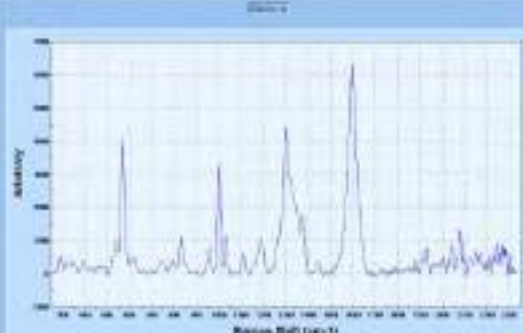
# PolyMax - Dark (DK)

| Index | ID     | Picture                                                                             | Spectrum                                                                             |
|-------|--------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 4-21  | PP     |    |    |
| 4-22  | ACETAL |    |    |
| 4-23  | PS     |  |  |
| 4-24  | PE     |  |  |

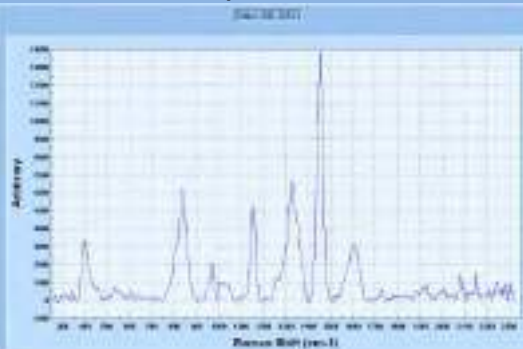
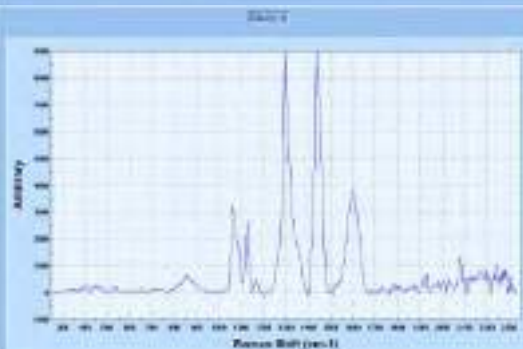
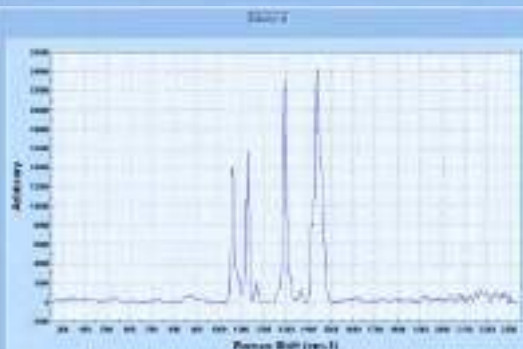
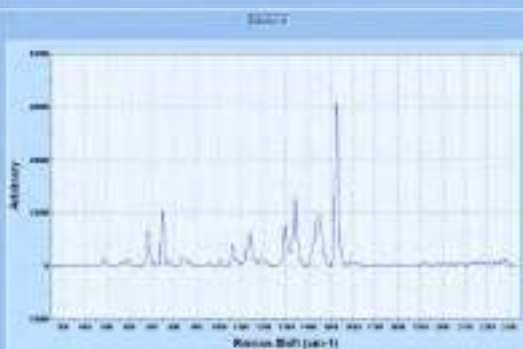
# PolyMax - Dark (DK)

| Index | ID                        | Picture                                                                             | Spectrum                                                                             |
|-------|---------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 4-25  | PP                        |    |    |
| 4-26  | PVC                       |   |   |
| 4-27  | LDPE                      |  |  |
| 4-28  | ACETAL<br>PTFE-<br>Filled |  |  |

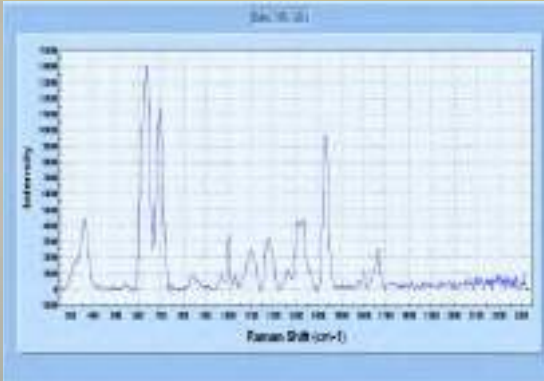
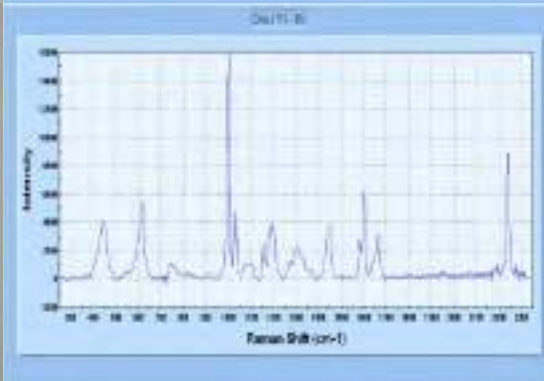
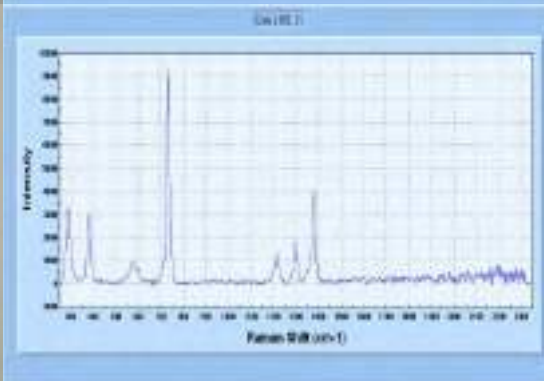
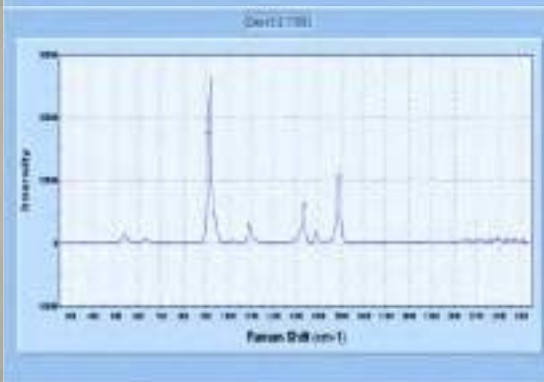
# PolyMax - Dark (DK)

| Index | ID        | Picture                                                                             | Spectrum                                                                             |
|-------|-----------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 4-29  | UHMW PE   |    |    |
| 4-30  | HDPE      |    |    |
| 4-31  | CPVC      |  |  |
| 4-32  | Noryl PPO |  |  |

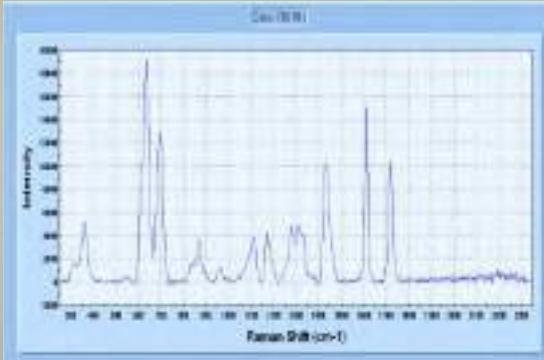
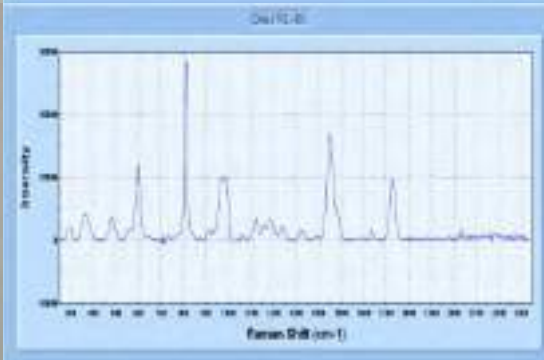
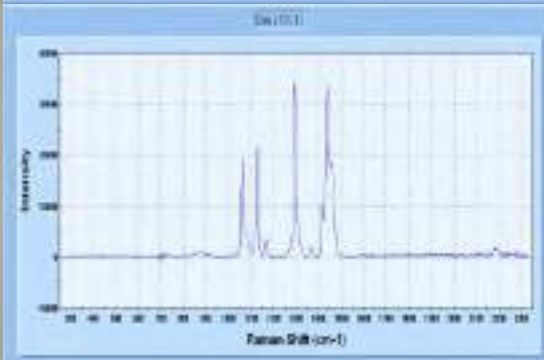
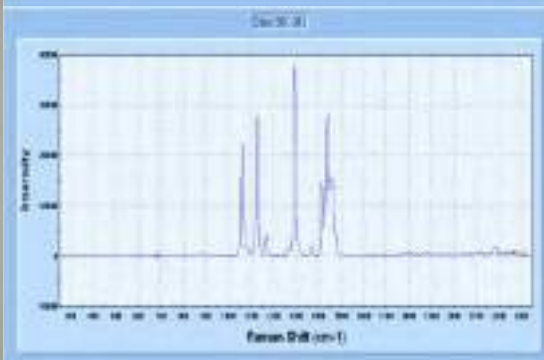
# PolyMax - Dark (DK)

| Index | ID                  | Picture                                                                             | Spectrum                                                                             |
|-------|---------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 4-33  | PP                  |    |    |
| 4-34  | UHMW<br>PE          |    |    |
| 4-35  | UHMW_P<br>E         |  |  |
| 4-36  | UHMW_P<br>E Metal D |  |  |

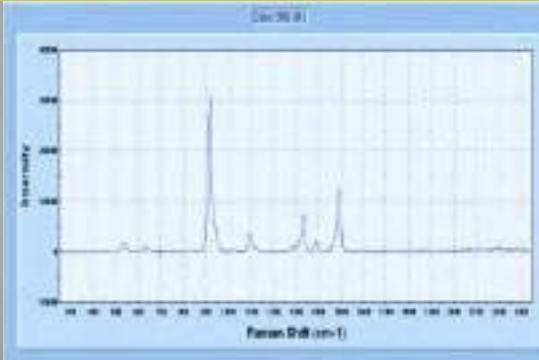
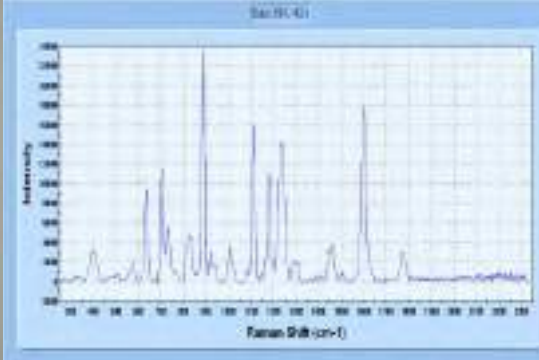
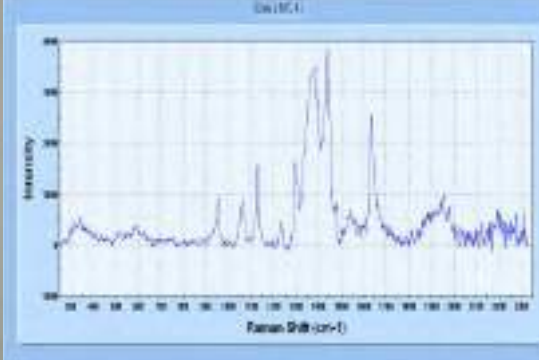
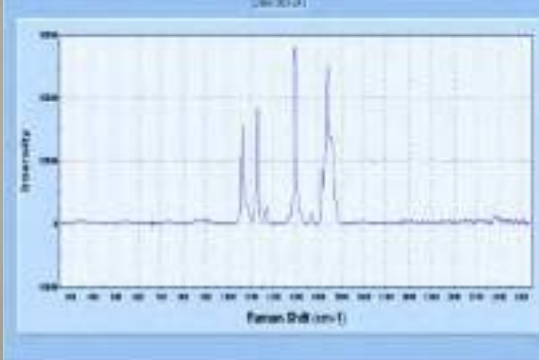
# PolyMax - Variety 2 (VR2)

| Index | ID             | Picture                                                                             | Spectrum                                                                             |
|-------|----------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 5-1   | PVC            |    |    |
| 5-2   | ABS            |   |   |
| 5-3   | PTFE<br>TEFLON |  |  |
| 5-4   | ACETAL         |  |  |

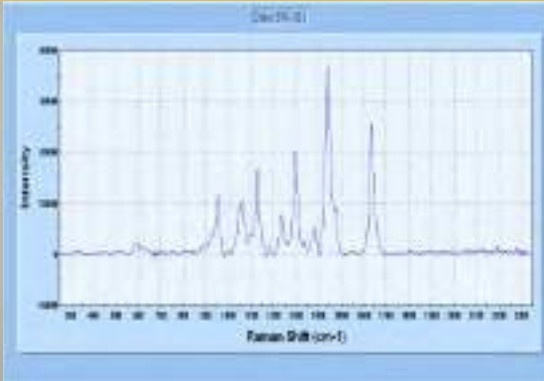
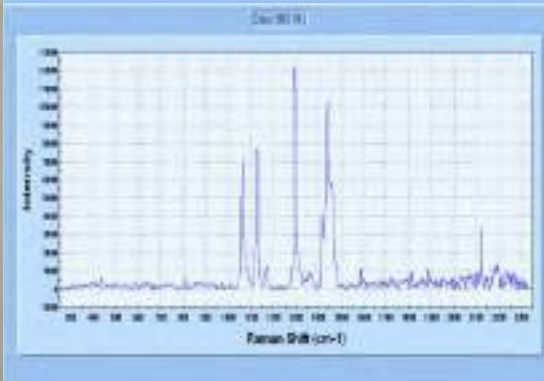
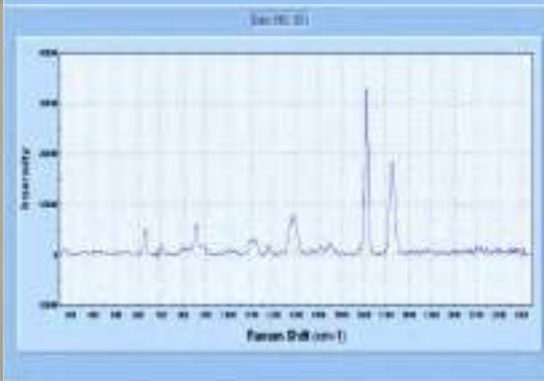
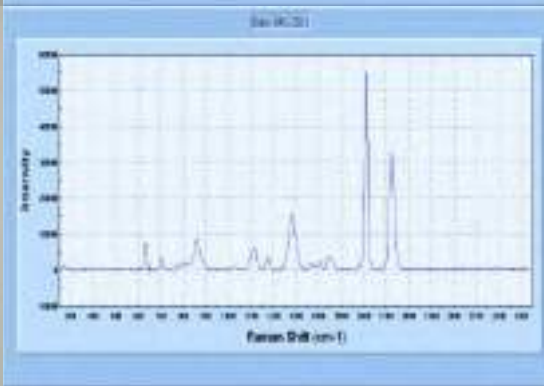
# PolyMax - Variety 2 (VR2)

| Index | ID      | Picture                                                                             | Spectrum                                                                             |
|-------|---------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 5-5   | PVC     |    |    |
| 5-6   | ACRYLIC |    |    |
| 5-7   | PE UHMW |  |  |
| 5-8   | HDPE    |  |  |

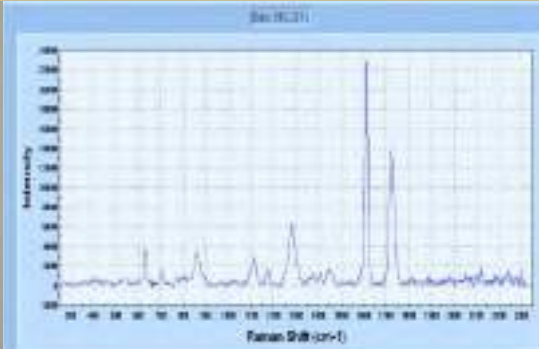
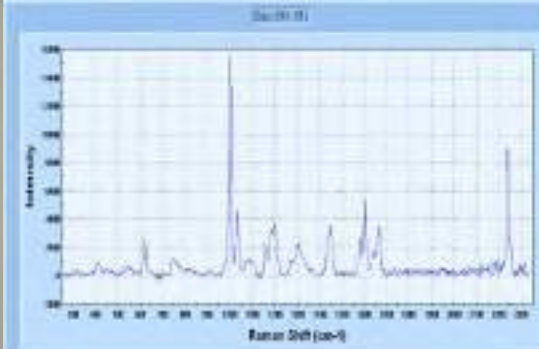
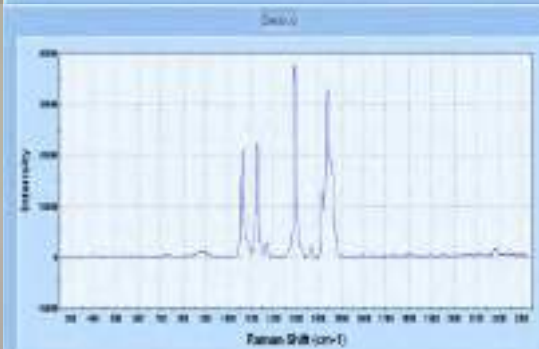
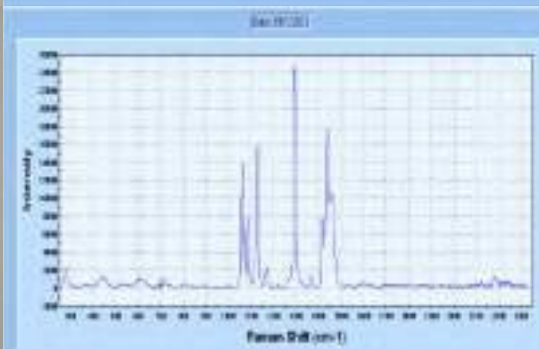
# PolyMax - Variety 2 (VR2)

| Index | ID                    | Picture                                                                             | Spectrum                                                                             |
|-------|-----------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 5-9   | ACETAL                |    |    |
| 5-10  | PC                    |   |    |
| 5-11  | NYLON<br>30%<br>GLASS |  |  |
| 5-12  | HDPE                  |  |  |

# PolyMax - Variety 2 (VR2)

| Index | ID        | Picture                                                                             | Spectrum                                                                             |
|-------|-----------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 5-13  | NYLON 6,6 |    |    |
| 5-14  | HDPE      |   |   |
| 5-15  | PETE      |  |  |
| 5-16  | PET       |  |  |

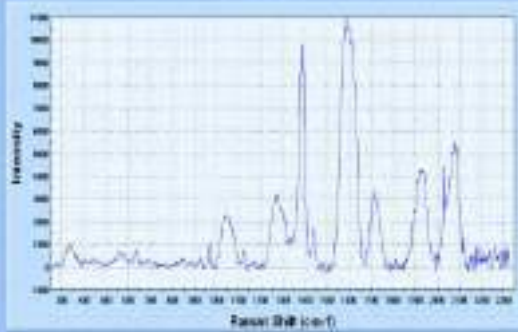
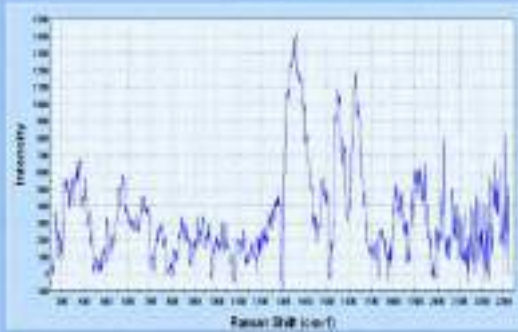
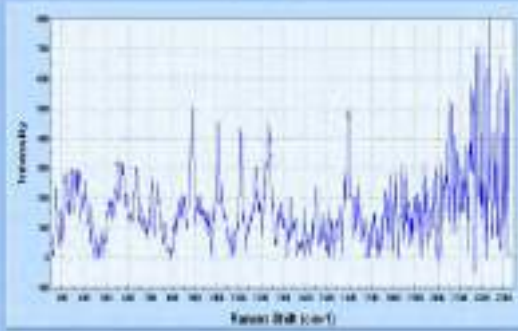
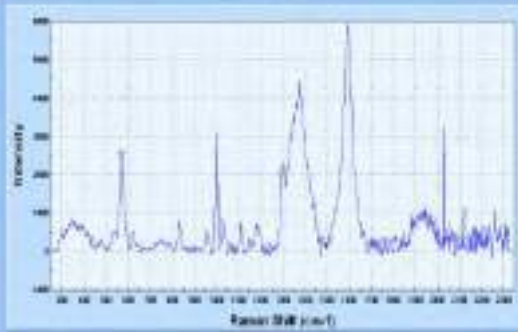
# PolyMax - Variety 2 (VR2)

| Index | ID   | Picture                                                                             | Spectrum                                                                             |
|-------|------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 5-17  | PET  |    |    |
| 5-18  | ABS  |    |    |
| 5-19  | PE   |  |  |
| 5-20  | HDPE |  |  |

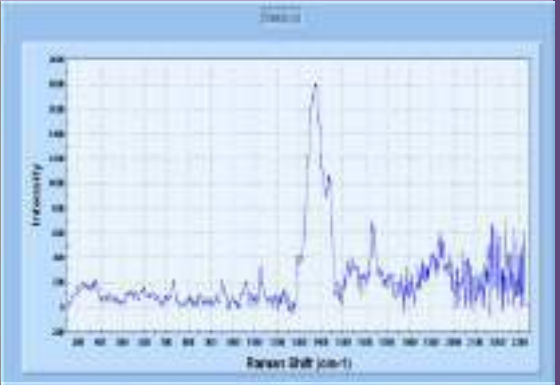
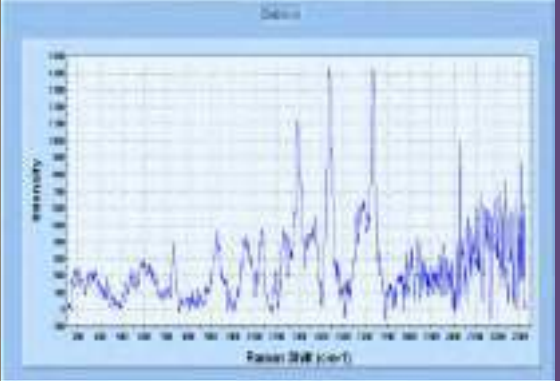
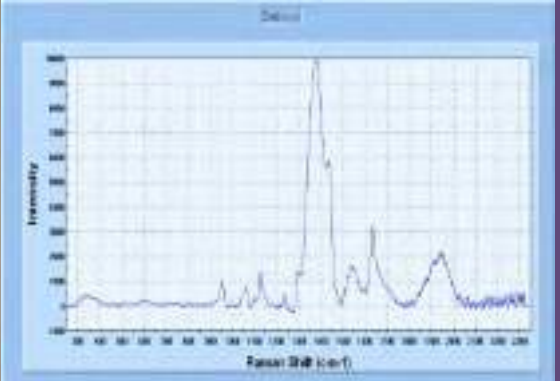
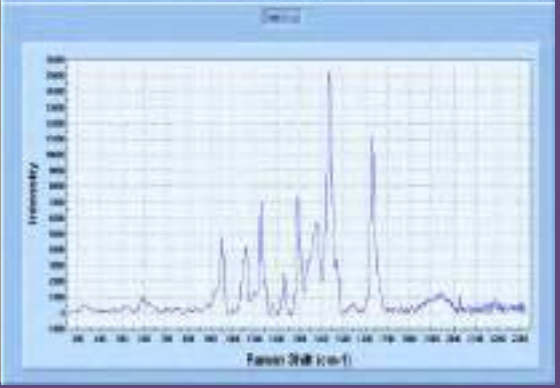
## PolyMax - Variety 2 (VR2)

| Index | ID   | Picture                                                                           | Spectrum                                                                           |
|-------|------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 5-21  | PTFE |  |  |

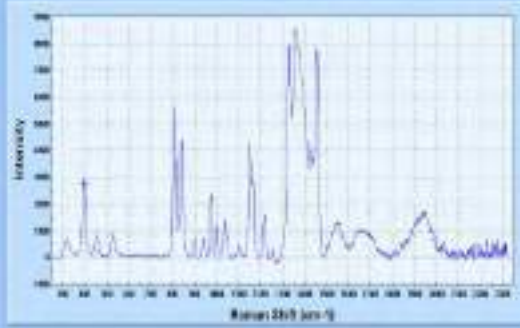
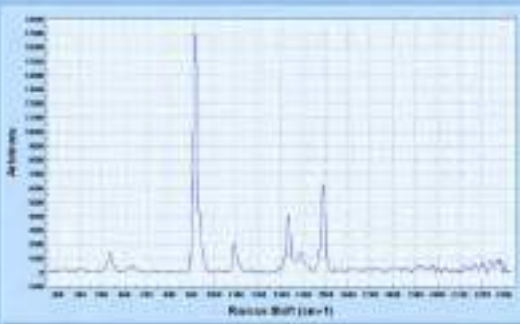
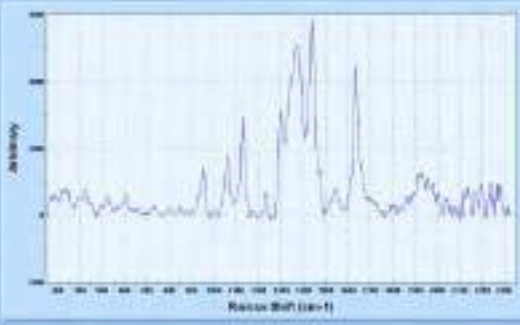
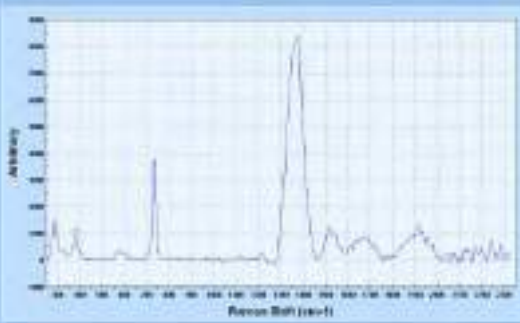
# PolyMax - Mixture (MX)

| Index | ID                 | Picture                                                                             | Spectrum                                                                             |
|-------|--------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 6-1   | NYLON 6<br>40M     |    |    |
| 6-2   | NYLON 6<br>25M 15G |    |   |
| 6-3   | PC/ABS             |  |  |
| 6-4   | PS 20%<br>GLASS    |  |  |

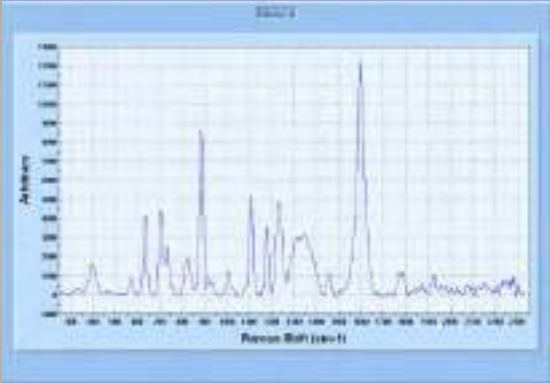
# PolyMax - Mixture (MX)

| Index | ID                             | Picture                                                                             | Spectrum                                                                             |
|-------|--------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 6-5   | NYLON 6,6<br>30G - PETE        |    |    |
| 6-6   | NYLON 4,6<br>15C LUB -<br>PETE |   |   |
| 6-7   | NYLON 6,6<br>33G               |  |  |
| 6-8   | NYLON 6,6<br>13G               |  |  |

# PolyMax - Mixture (MX)

| Index | ID                     | Picture                                                                             | Spectrum                                                                             |
|-------|------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 6-9   | PP 20G                 |    |    |
| 6-10  | ACETAL<br>Glass-Filled |    |    |
| 6-11  | NYLON<br>Glass-Filled  |  |  |
| 6-12  | PTFE Glass-Filled      |  |  |

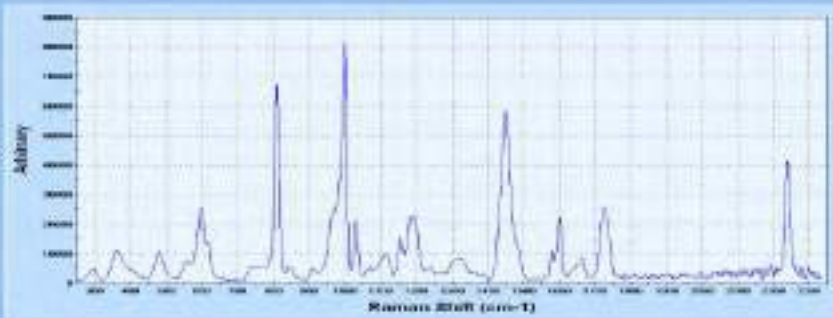
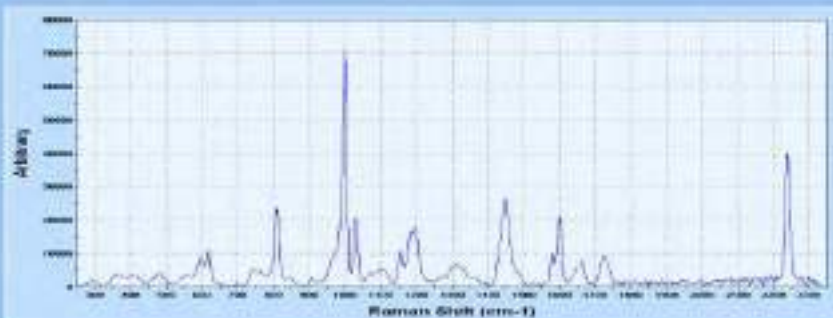
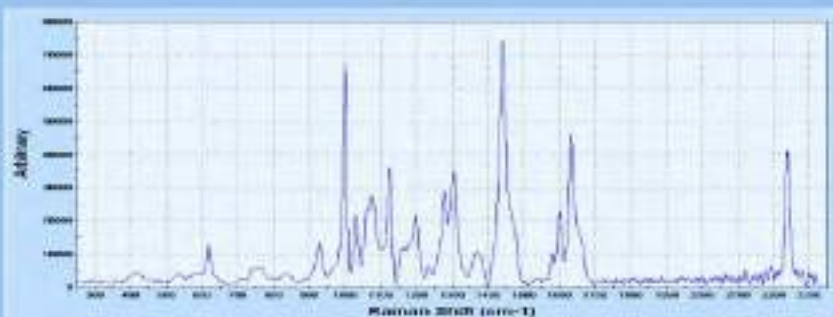
# PolyMax - Mixture (MX)

| Index | ID              | Picture                                                                           | Spectrum                                                                           |
|-------|-----------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 6-13  | PC Glass-Filled |  |  |

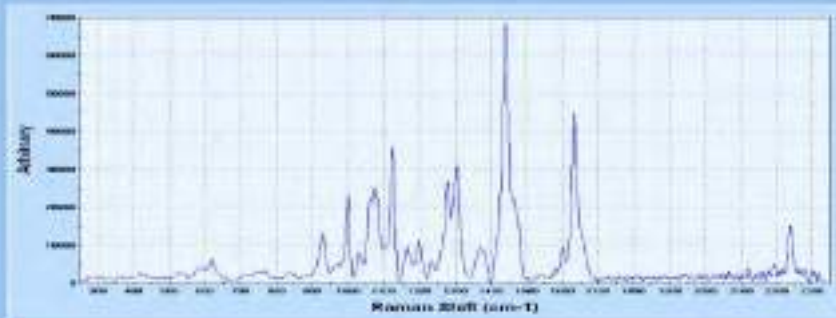
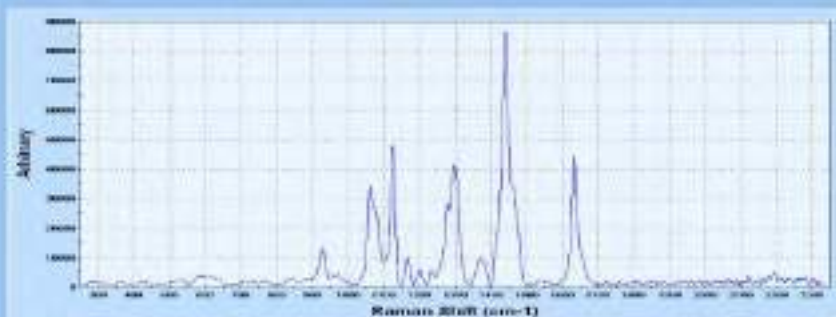
# PolyMax - Mixture 2 (MX-2)

| Index | ID             | Spectrum |
|-------|----------------|----------|
| 7-1A  | ABS/PC 25/75   |          |
| 7-1B  | ABS/PC 50/50   |          |
| 7-1C  | ABS/PC 75/25   |          |
| 7-2A  | ABS/PMMA 25/75 |          |

# PolyMax - Mixture 2 (MX-2)

| Index | ID                | Spectrum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7-2B  | ABS/PMMA<br>50/50 |  The IR spectrum shows transmittance versus wavenumber from 4000 to 500 cm⁻¹. Key peaks are observed at approximately 3060 cm⁻¹ (aromatic C-H stretch), 3020 cm⁻¹ (aliphatic C-H stretch), 1601 cm⁻¹ (aromatic ring C=C stretch), 1493 cm⁻¹ (aromatic ring C=C stretch), 1452 cm⁻¹ (aromatic ring C=C stretch), 1375 cm⁻¹ (C-H bend), 1028 cm⁻¹ (C-H bend), and 756 cm⁻¹ (monosubstituted benzene ring C-H bend).   |
| 7-2C  | ABS/PMMA<br>75/25 |  The IR spectrum shows transmittance versus wavenumber from 4000 to 500 cm⁻¹. Key peaks are observed at approximately 3060 cm⁻¹ (aromatic C-H stretch), 3020 cm⁻¹ (aliphatic C-H stretch), 1601 cm⁻¹ (aromatic ring C=C stretch), 1493 cm⁻¹ (aromatic ring C=C stretch), 1452 cm⁻¹ (aromatic ring C=C stretch), 1375 cm⁻¹ (C-H bend), 1028 cm⁻¹ (C-H bend), and 756 cm⁻¹ (monosubstituted benzene ring C-H bend).   |
| 7-3A  | PA/ABS 25/75      |  The IR spectrum shows transmittance versus wavenumber from 4000 to 500 cm⁻¹. Key peaks are observed at approximately 3300 cm⁻¹ (N-H stretch), 3060 cm⁻¹ (aromatic C-H stretch), 3020 cm⁻¹ (aliphatic C-H stretch), 1650 cm⁻¹ (amide I band), 1540 cm⁻¹ (amide II band), 1450 cm⁻¹ (aromatic ring C=C stretch), 1375 cm⁻¹ (C-H bend), 1028 cm⁻¹ (C-H bend), and 756 cm⁻¹ (monosubstituted benzene ring C-H bend). |
| 7-3B  | PA/ABS 50/50      |  The IR spectrum shows transmittance versus wavenumber from 4000 to 500 cm⁻¹. Key peaks are observed at approximately 3300 cm⁻¹ (N-H stretch), 3060 cm⁻¹ (aromatic C-H stretch), 3020 cm⁻¹ (aliphatic C-H stretch), 1650 cm⁻¹ (amide I band), 1540 cm⁻¹ (amide II band), 1450 cm⁻¹ (aromatic ring C=C stretch), 1375 cm⁻¹ (C-H bend), 1028 cm⁻¹ (C-H bend), and 756 cm⁻¹ (monosubstituted benzene ring C-H bend). |

# PolyMax - Mixture 2 (MX-2)

| Index | ID           | Spectrum                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7-3C  | PA/ABS 75/25 |  The infrared spectrum shows a broad absorption band around 3300 cm⁻¹, characteristic of the amide I band in polyamide. Strong, sharp peaks are visible in the 1600-1780 cm⁻¹ region, corresponding to the amide I and II bands. The x-axis is labeled 'Wavenumber (cm⁻¹)' and ranges from 3500 to 250. The y-axis is labeled 'Arbitrary' and ranges from 0 to 100,000. |
| 7-4A  | PA/PE 25/75  |  The infrared spectrum shows a broad absorption band around 3300 cm⁻¹. Strong, sharp peaks are visible in the 1600-1780 cm⁻¹ region, corresponding to the amide I and II bands. The x-axis is labeled 'Wavenumber (cm⁻¹)' and ranges from 3500 to 250. The y-axis is labeled 'Arbitrary' and ranges from 0 to 100,000.                                                  |
| 7-4B  | PA/PE 50/50  |  The infrared spectrum shows a broad absorption band around 3300 cm⁻¹. Strong, sharp peaks are visible in the 1600-1780 cm⁻¹ region, corresponding to the amide I and II bands. The x-axis is labeled 'Wavenumber (cm⁻¹)' and ranges from 3500 to 250. The y-axis is labeled 'Arbitrary' and ranges from 0 to 100,000.                                                |
| 7-4C  | PA/PE 75/25  |  The infrared spectrum shows a broad absorption band around 3300 cm⁻¹. Strong, sharp peaks are visible in the 1600-1780 cm⁻¹ region, corresponding to the amide I and II bands. The x-axis is labeled 'Wavenumber (cm⁻¹)' and ranges from 3500 to 250. The y-axis is labeled 'Arbitrary' and ranges from 0 to 100,000.                                                |

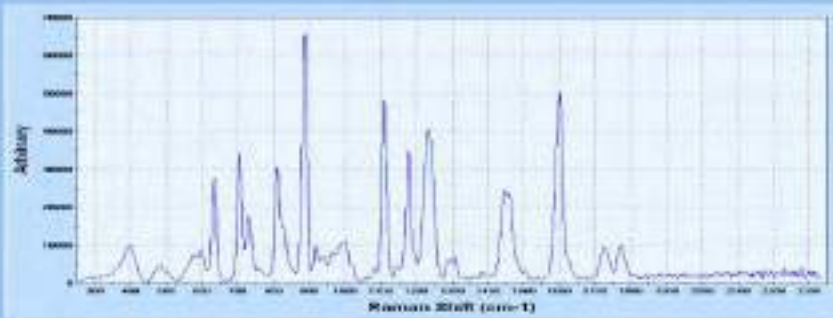
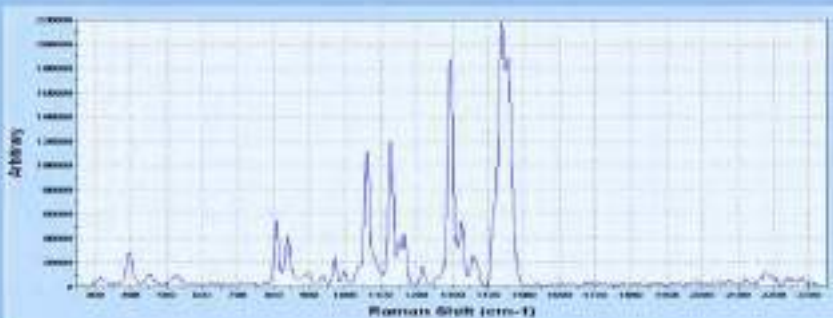
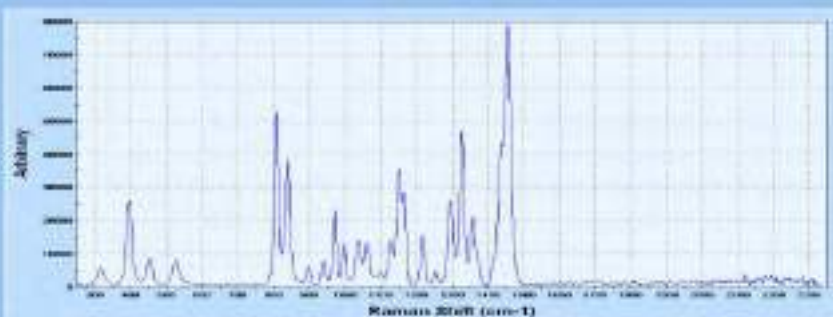
# PolyMax - Mixture 2 (MX-2)

| Index | ID            | Spectrum |
|-------|---------------|----------|
| 7-5A  | PC/PBT 25/75  |          |
| 7-5B  | PC/PBT 50/50/ |          |
| 7-5C  | PC/PBT 75/25  |          |
| 7-6A  | PC/PET 25/75  |          |

# PolyMax - Mixture 2 (MX-2)

| Index | ID            | Spectrum |
|-------|---------------|----------|
| 7-6B  | PC/PET 50/50  |          |
| 7-6C  | PC/PET 75/25  |          |
| 7-7A  | PC/PMMA 25/75 |          |
| 7-7B  | PC/PMMA 50/50 |          |

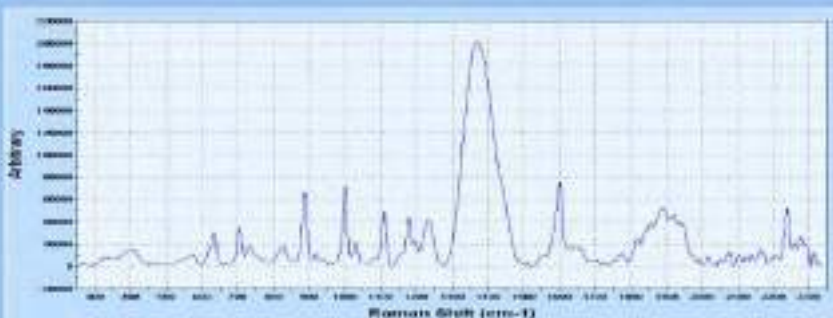
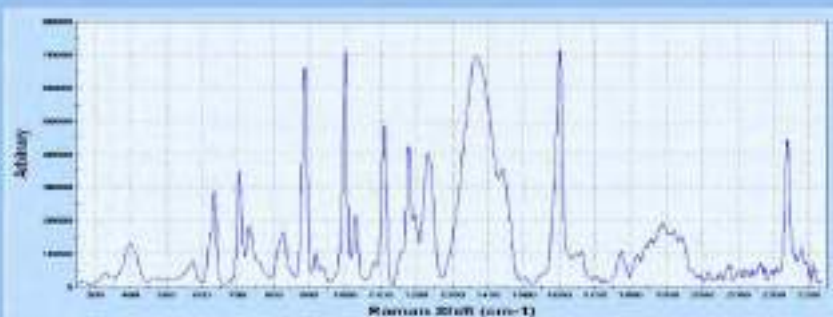
# PolyMax - Mixture 2 (MX-2)

| Index | ID            | Spectrum                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7-7C  | PC/PMMA 75/25 |  The IR spectrum shows characteristic peaks for polycarbonate (PC) and polymethyl methacrylate (PMMA). Notable peaks include a strong carbonyl (C=O) stretch around 1710 cm⁻¹, aromatic C-H stretches near 3000 cm⁻¹, and aliphatic C-H stretches around 2900 cm⁻¹. The x-axis is labeled 'Wavenum Shift (cm⁻¹)' and the y-axis is 'Arbitrary'. |
| 7-8A  | PP/PE 25/75   |  The IR spectrum displays characteristic features for polypropylene (PP) and polyethylene (PE). Key peaks include C-H stretches around 2900 cm⁻¹, a strong C-H bend for PP at approximately 1470 cm⁻¹, and a sharp C-H stretch for PE at about 1460 cm⁻¹. The x-axis is labeled 'Wavenum Shift (cm⁻¹)' and the y-axis is 'Arbitrary'.           |
| 7-8B  | PP/PE 50/50   |  The IR spectrum shows a mixture of PP and PE. It features C-H stretches around 2900 cm⁻¹, a C-H bend for PP at 1470 cm⁻¹, and a C-H stretch for PE at 1460 cm⁻¹. The x-axis is labeled 'Wavenum Shift (cm⁻¹)' and the y-axis is 'Arbitrary'.                                                                                                 |
| 7-8C  | PP/PE 75/25   |  The IR spectrum shows a mixture of PP and PE. It features C-H stretches around 2900 cm⁻¹, a C-H bend for PP at 1470 cm⁻¹, and a C-H stretch for PE at 1460 cm⁻¹. The x-axis is labeled 'Wavenum Shift (cm⁻¹)' and the y-axis is 'Arbitrary'.                                                                                                 |

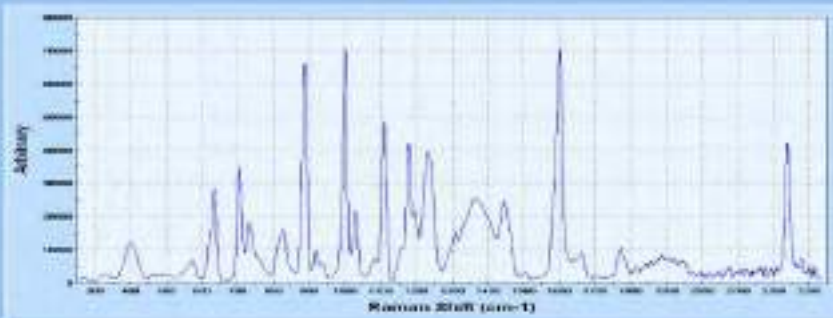
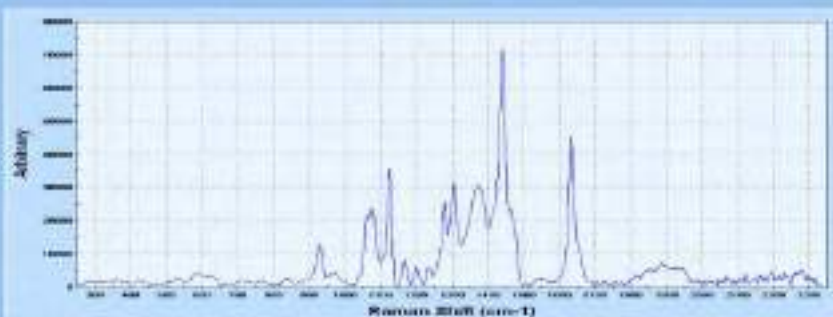
# PolyMax - Mixture 2 (MX-2)

| Index | ID            | Spectrum |
|-------|---------------|----------|
| 7-9A  | PP/PET 25/75  |          |
| 7-9B  | PP/PET 50/50  |          |
| 7-9C  | PP/PET 75/25  |          |
| 7-10A | PS/PMMA 25/75 |          |

# PolyMax - Mixture 2 (MX-2)

| Index | ID                 | Spectrum                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7-10B | PS/PMMA 50/50      |  The IR spectrum shows characteristic peaks for polystyrene (PS) and poly(methyl methacrylate) (PMMA). Notable peaks include aromatic C-H stretching around 3080 cm⁻¹, aliphatic C-H stretching around 2900 cm⁻¹, a strong carbonyl (C=O) stretch at approximately 1730 cm⁻¹, and aromatic ring vibrations between 1600 and 1450 cm⁻¹. |
| 7-10C | PS/PMMA 75/25      |  This spectrum is similar to 7-10B but with a higher proportion of PS. The aromatic C-H stretching peak at 3080 cm⁻¹ is more prominent, and the carbonyl peak at 1730 cm⁻¹ is slightly less intense compared to the 50/50 mixture.                                                                                                     |
| 7-11A | ABS.PC/GLASS 25/75 |  The spectrum shows a very strong, broad carbonyl (C=O) stretching peak around 1710 cm⁻¹, characteristic of polycarbonate (PC). There are also several peaks in the fingerprint region (1500-600 cm⁻¹) typical of ABS and PC.                                                                                                        |
| 7-11B | ABS.PC/GLASS 50/50 |  This spectrum shows a complex pattern of peaks. The carbonyl peak at 1710 cm⁻¹ is strong, but there are also significant peaks in the 1600-1450 cm⁻¹ region, suggesting a mixture of PC and another material like ABS.                                                                                                              |

# PolyMax - Mixture 2 (MX-2)

| Index | ID                    | Spectrum                                                                             |
|-------|-----------------------|--------------------------------------------------------------------------------------|
| 7-11C | ABS.PC/GLASS<br>75/25 |    |
| 7-12A | PA/GLASS 25/75        |    |
| 7-12B | PA/GLASS 50/50        |  |
| 7-12C | PA/GLASS 75/25        |  |

# PolyMax - Mixture 2 (MX-2)

| Index | ID             | Spectrum |
|-------|----------------|----------|
| 7-13A | PC/GLASS 25/75 |          |
| 7-13B | PC/GLASS 50/50 |          |
| 7-13C | PC/GLASS 75/25 |          |



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