

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW082119\  
 Data File : VW012079.D  
 Acq On : 21 Aug 2019 19:26  
 Operator : SY/VA  
 Sample : K4421-12  
 Misc : 5.00G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SUNSET-PARK-SB-2-9.5-10.0

Quant Time: Aug 22 05:18:27 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 27 00:23:30 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 178273   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 284822   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 231432   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 92744    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.30  | 65   | 106243   | 51.90 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 103.80% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 86863    | 54.36 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 108.72% |          |
| 50) Toluene-d8              | 10.32 | 98   | 348035   | 53.20 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 106.40% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 106889   | 45.83 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 91.66%  |          |

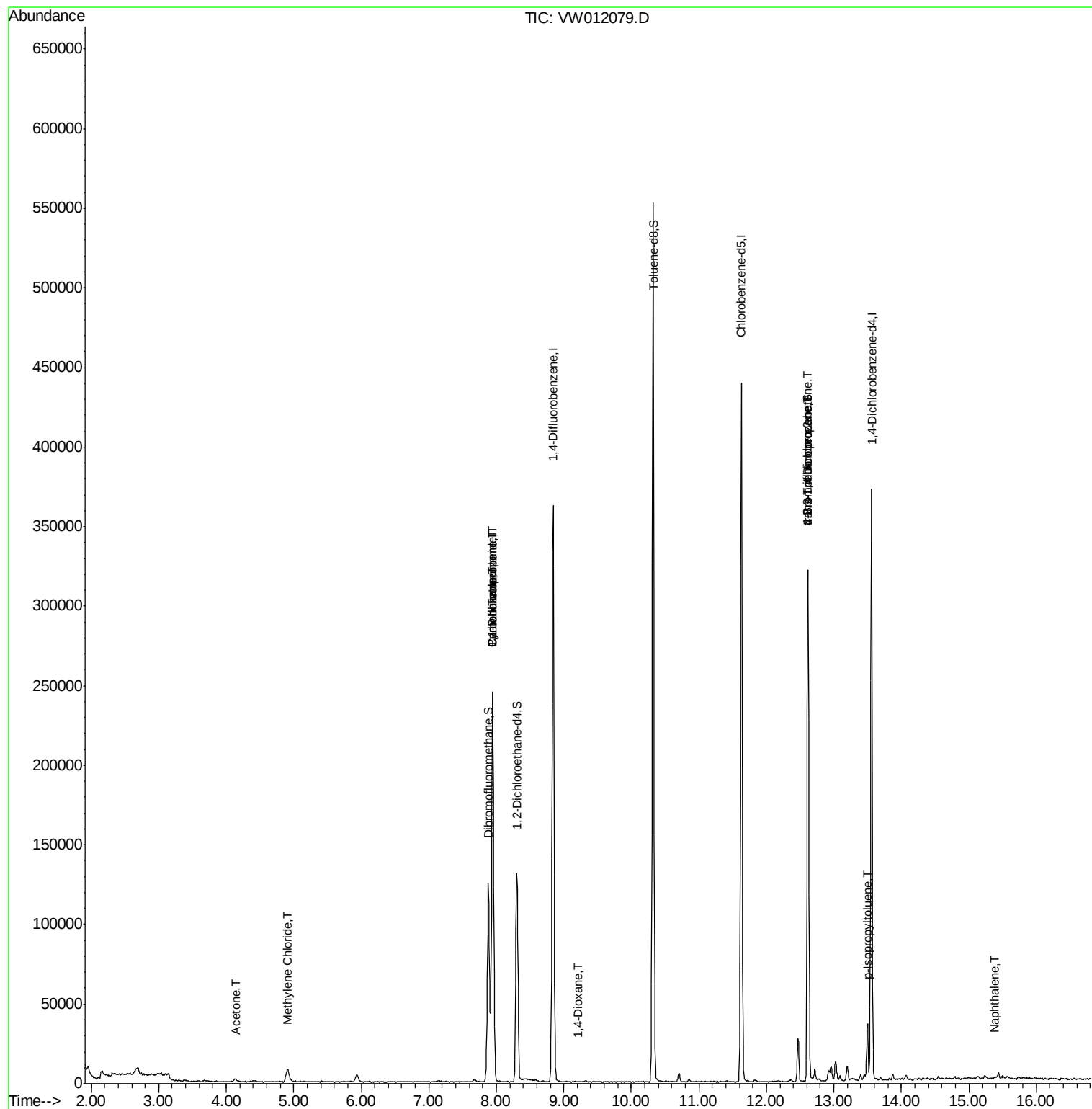
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.18  | 59   | 155      | Below Cal | #      | 84     |
| 16) Acetone                    | 4.13  | 43   | 3990     | 6.127     | ug/l   | 99     |
| 20) Methylene Chloride         | 4.91  | 84   | 5558     | 2.475     | ug/l   | 96     |
| 31) Cyclohexane                | 7.95  | 56   | 4171     | 1.090     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 15289    | 5.162     | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 18123    | 7.148     | ug/l # | 16     |
| 49) 1,4-Dioxane                | 9.22  | 88   | 43       | 2.931     | ug/l # | 27     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 57539    | 58.633    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 57539    | 135.129   | ug/l # | 6      |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 17858    | 2.844     | ug/l   | 97     |
| 95) Naphthalene                | 15.37 | 128  | 466      | 2.188     | ug/l # | 75     |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW012079.D

Acq: 21 Aug 2019 19:26

Instrument :

MSVOA\_W

ClientSampleId :

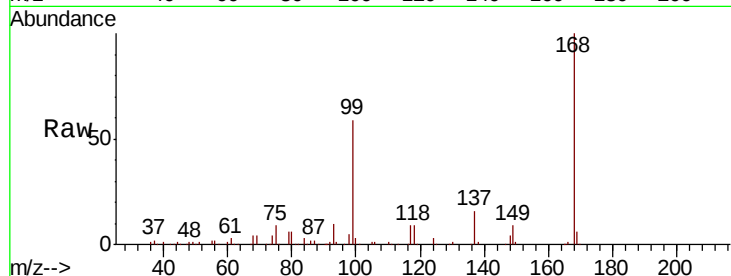
SUNSET-PARK-SB-2-9.5-10.0

Tgt Ion:168 Resp: 178273

Ion Ratio Lower Upper

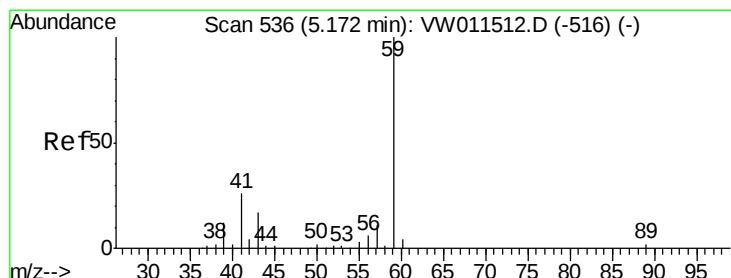
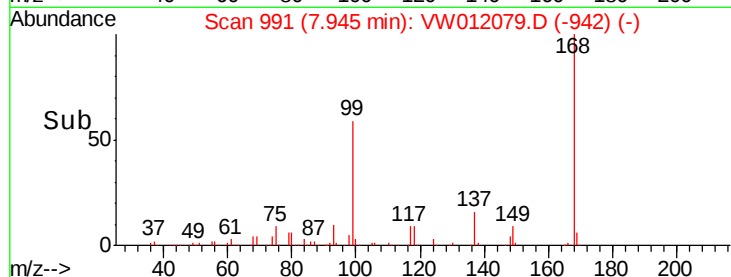
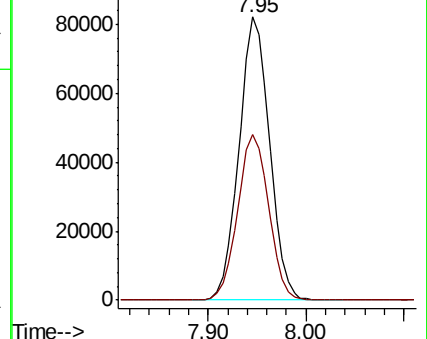
168 100

99 58.7 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.18 min Scan# 537

Delta R.T. 0.01 min

Lab File: VW012079.D

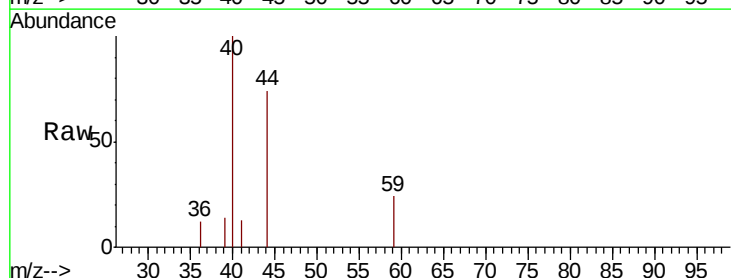
Acq: 21 Aug 2019 19:26

Tgt Ion: 59 Resp: 155

Ion Ratio Lower Upper

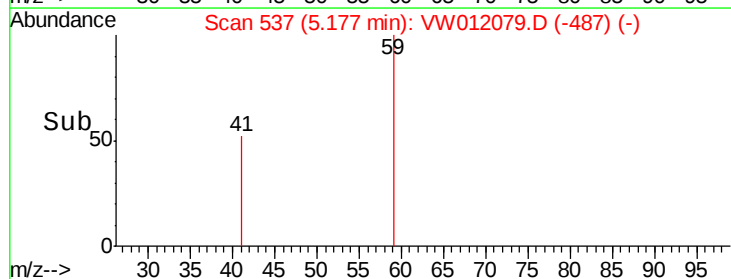
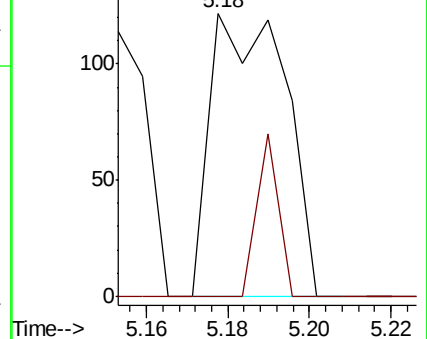
59 100

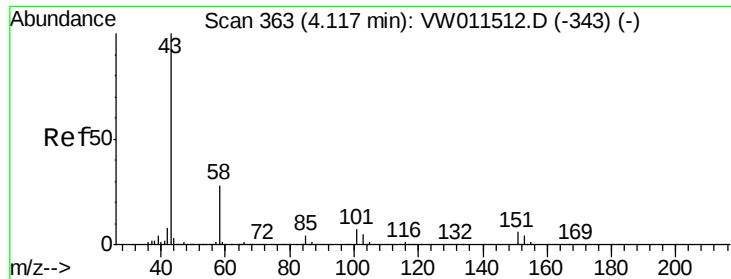
57 16.8 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

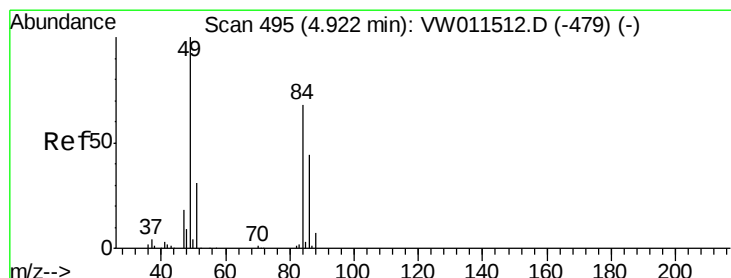
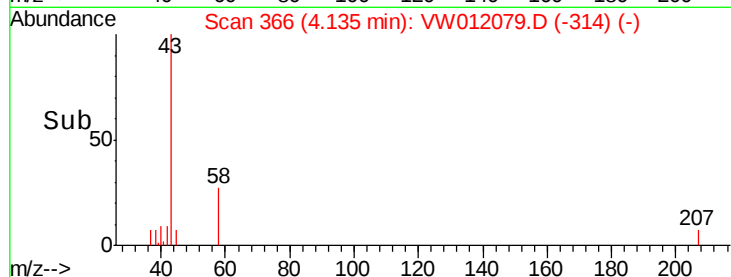
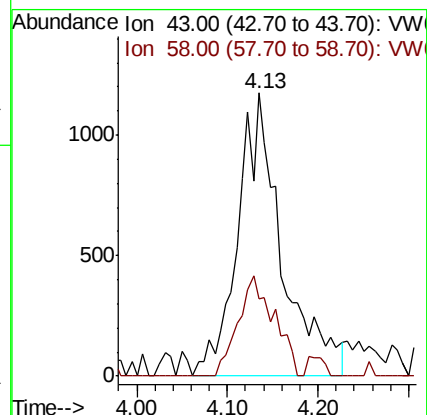
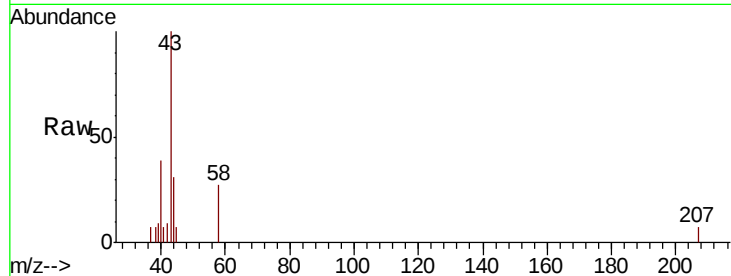




#16  
Acetone  
Concen: 6.127 ug/l  
RT: 4.13 min Scan# 366  
Delta R.T. 0.02 min  
Lab File: VW012079.D  
Acq: 21 Aug 2019 19:26

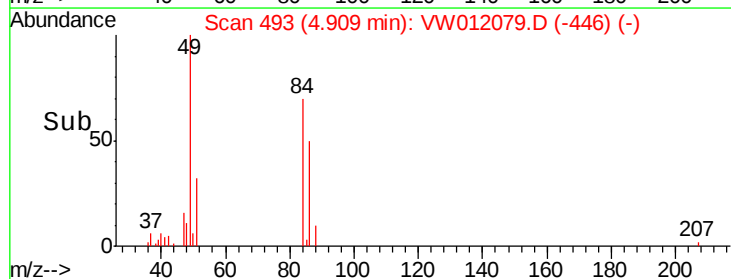
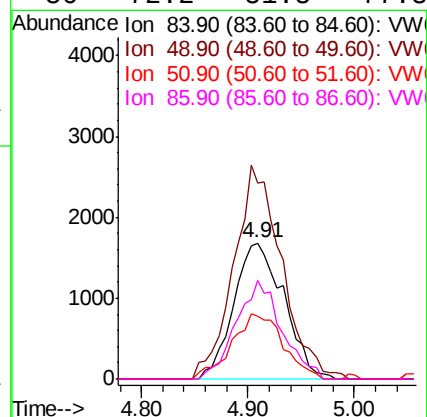
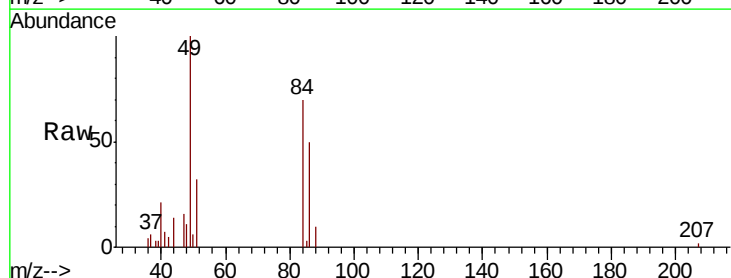
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MSVOA\_W  
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SUNSET-PARK-SB-2-9.5-10.0

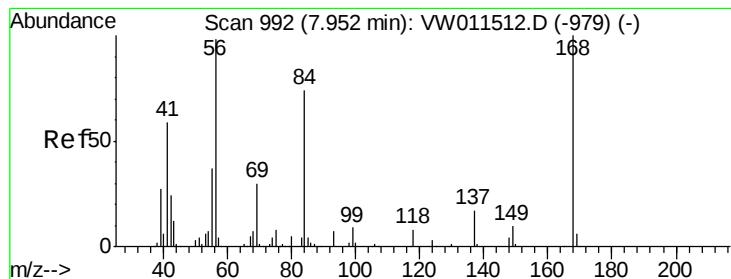
Tgt Ion: 43 Resp: 3990  
Ion Ratio Lower Upper  
43 100  
58 27.2 22.3 33.5



#20  
Methylene Chloride  
Concen: 2.475 ug/l  
RT: 4.91 min Scan# 493  
Delta R.T. -0.01 min  
Lab File: VW012079.D  
Acq: 21 Aug 2019 19:26

Tgt Ion: 84 Resp: 5558  
Ion Ratio Lower Upper  
84 100  
49 143.8 117.8 176.6  
51 46.5 37.0 55.4  
86 72.2 51.8 77.8





#31

Cyclohexane

Concen: 1.090 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW012079.D

Acq: 21 Aug 2019 19:26

Instrument :

MSVOA\_W

ClientSampleId :

SUNSET-PARK-SB-2-9.5-10.0

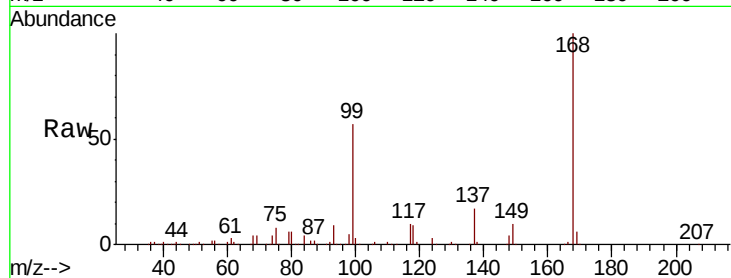
Tgt Ion: 56 Resp: 4171

Ion Ratio Lower Upper

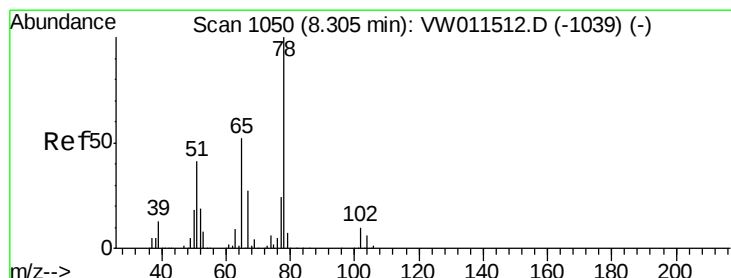
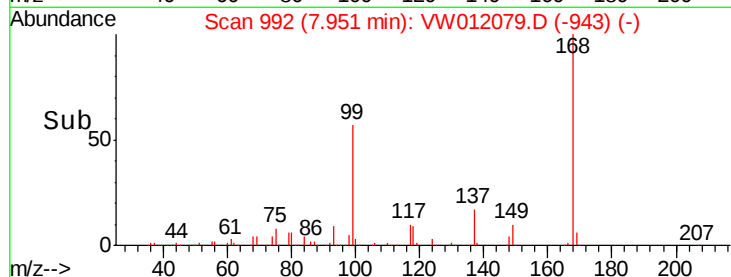
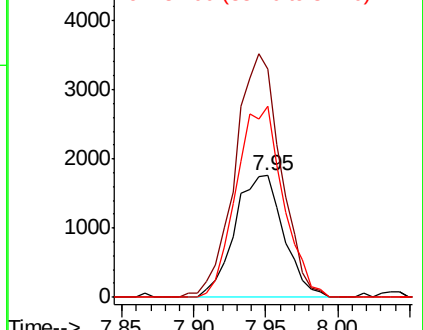
56 100

69 187.4 24.3 36.5#

84 156.9 60.4 90.6#



Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW



#33

1,2-Dichloroethane-d4

Concen: 51.900 ug/l

RT: 8.30 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012079.D

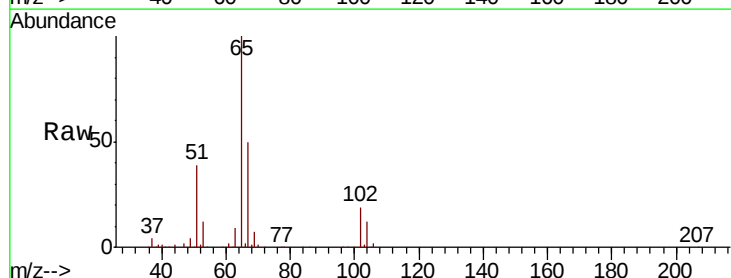
Acq: 21 Aug 2019 19:26

Tgt Ion: 65 Resp: 106243

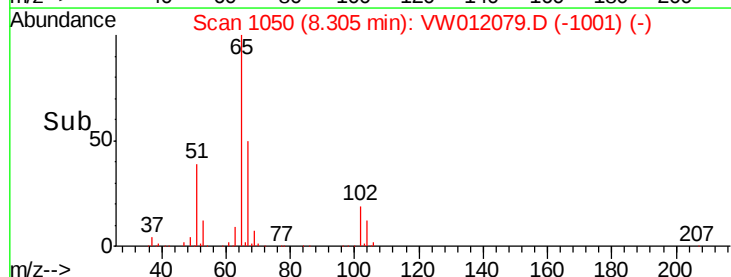
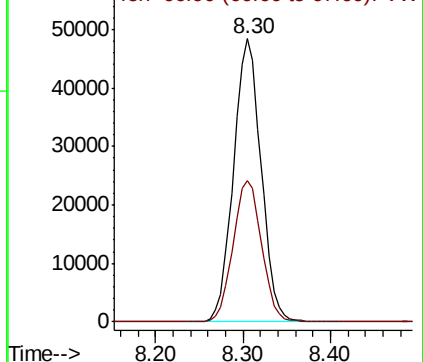
Ion Ratio Lower Upper

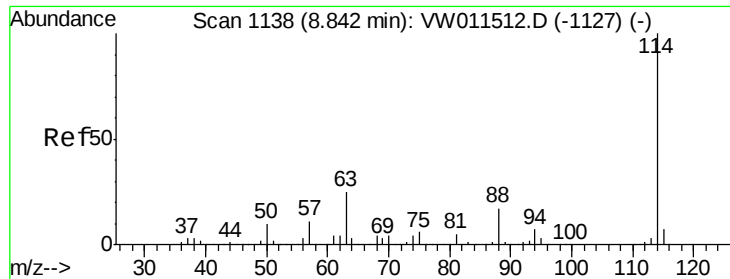
65 100

67 51.5 0.0 105.2



Abundance Ion 64.90 (64.60 to 65.60): VW  
Ion 66.90 (66.60 to 67.60): VW

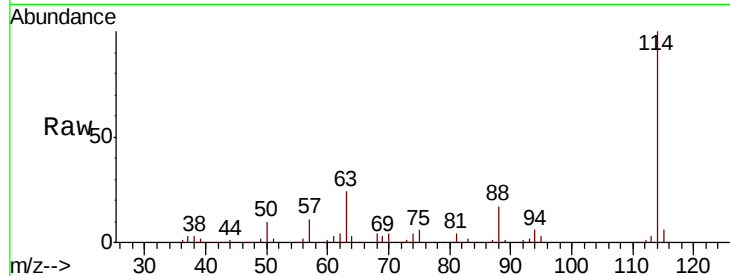




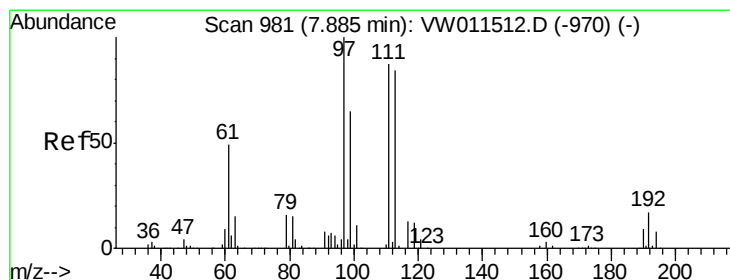
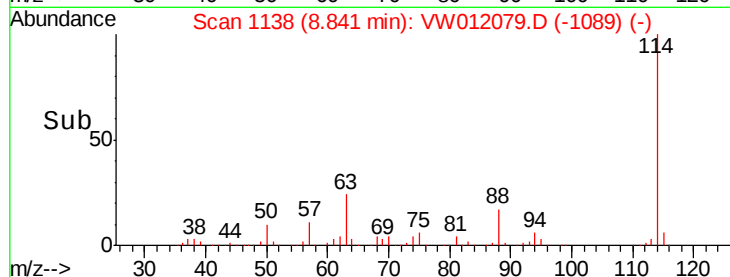
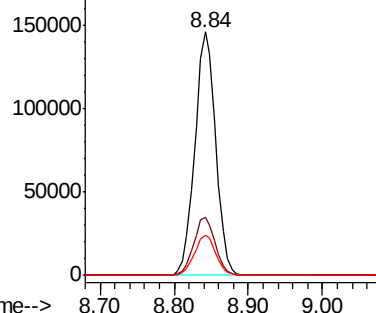
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW012079.D  
 Acq: 21 Aug 2019 19:26

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SUNSET-PARK-SB-2-9.5-10.0

Tgt Ion:114 Resp: 284822  
 Ion Ratio Lower Upper  
 114 100  
 63 23.7 0.0 49.2  
 88 16.6 0.0 33.8

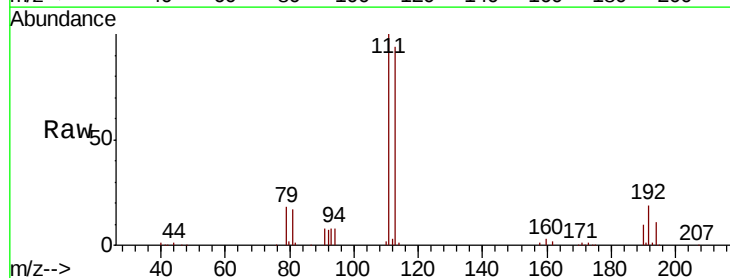


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VW  
 Ion 87.90 (87.60 to 88.60): VW

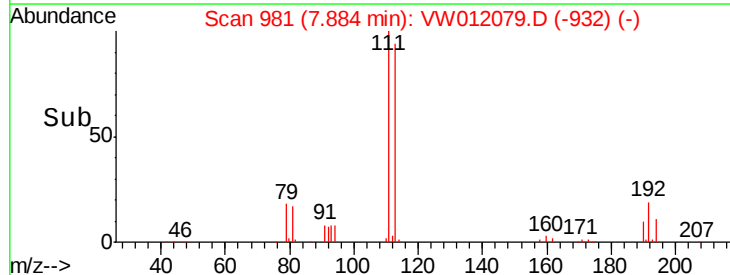
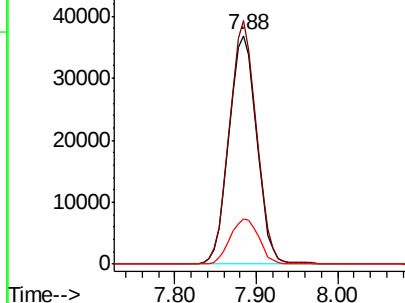


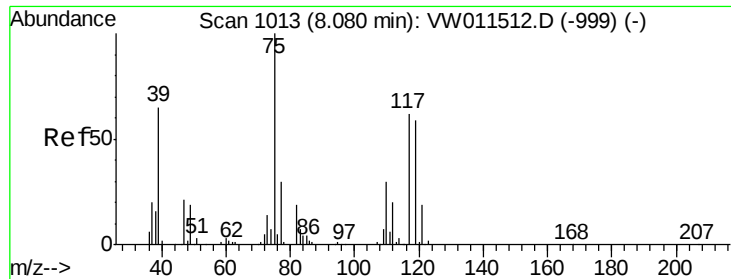
#35  
 Dibromofluoromethane  
 Concen: 54.361 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.00 min  
 Lab File: VW012079.D  
 Acq: 21 Aug 2019 19:26

Tgt Ion:113 Resp: 86863  
 Ion Ratio Lower Upper  
 113 100  
 111 103.8 82.7 124.1  
 192 20.4 16.1 24.1



Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

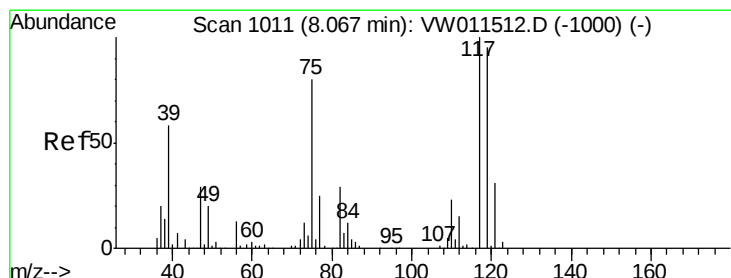
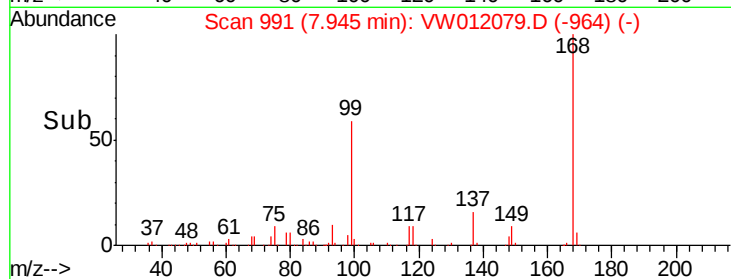
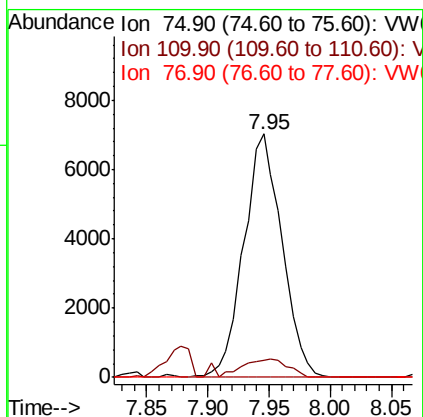
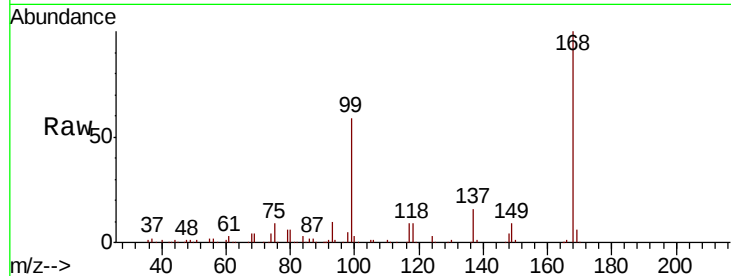




#36  
 1,1-Dichloropropene  
 Concen: 5.162 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW012079.D  
 Acq: 21 Aug 2019 19:26

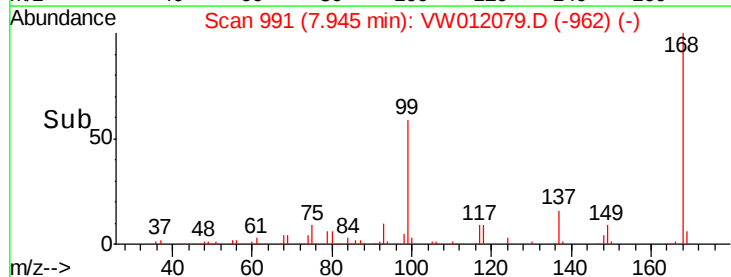
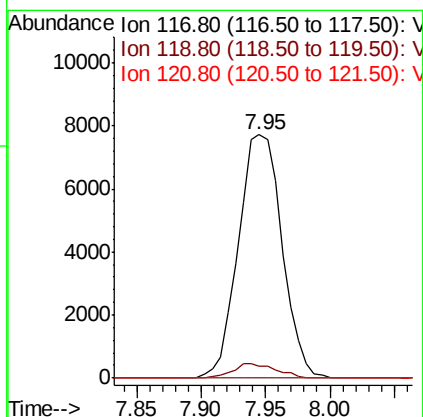
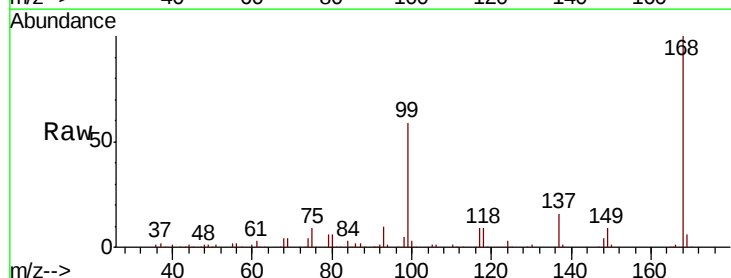
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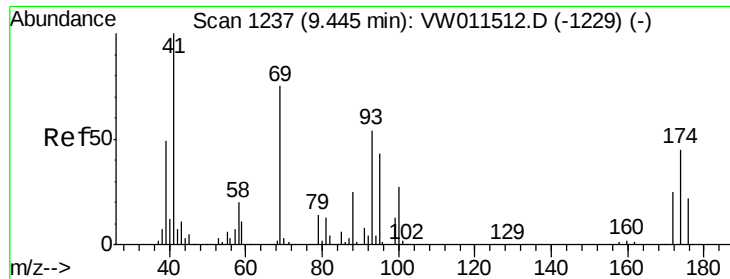
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.1   | 15.6  | 46.8# |
| 77      | 0.0   | 24.3  | 36.5# |



#38  
 Carbon Tetrachloride  
 Concen: 7.148 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.12 min  
 Lab File: VW012079.D  
 Acq: 21 Aug 2019 19:26

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 5.0   | 75.8  | 113.6# |
| 121     | 0.0   | 24.7  | 37.1#  |

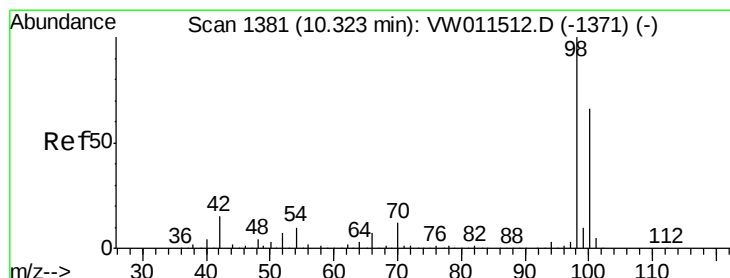
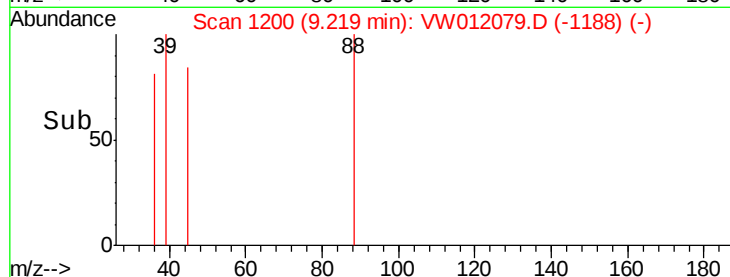
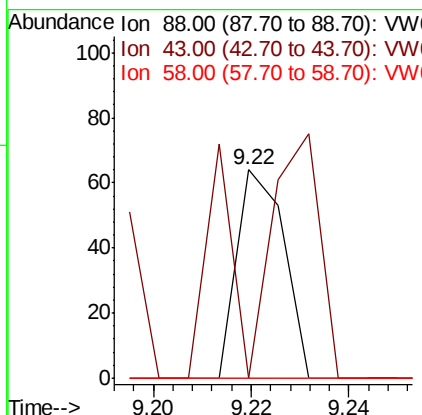
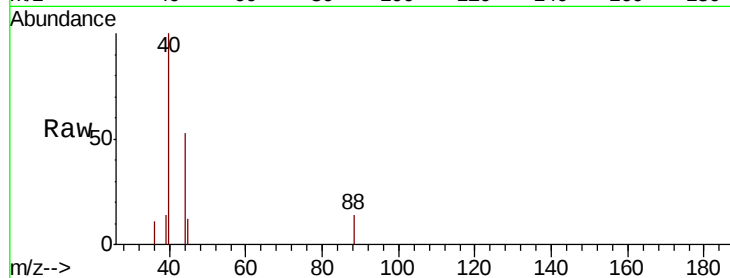




#49  
1,4-Dioxane  
Concen: 2.931 ug/l  
RT: 9.22 min Scan# 1200  
Delta R.T. -0.23 min  
Lab File: VW012079.D  
Acq: 21 Aug 2019 19:26

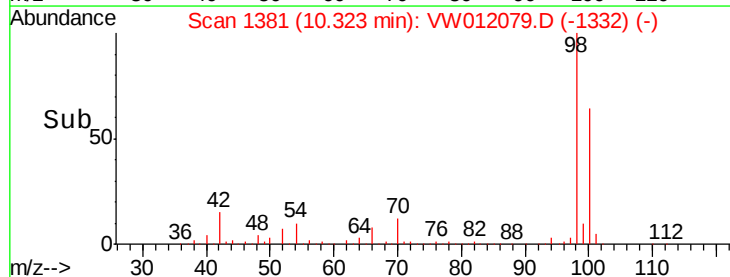
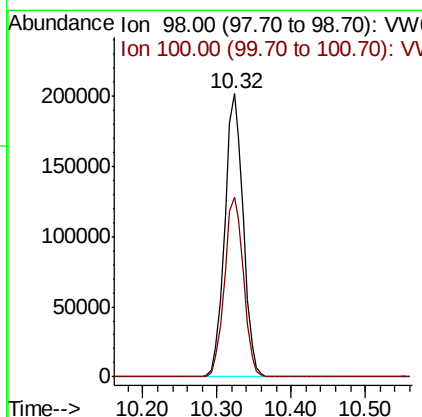
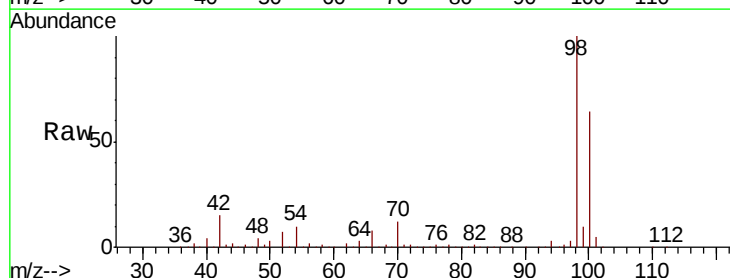
Instrument :  
MSVOA\_W  
ClientSampleId :  
SUNSET-PARK-SB-2-9.5-10.0

Tgt Ion: 88 Resp: 43  
Ion Ratio Lower Upper  
88 100  
43 60.5 34.0 51.0#  
58 0.0 69.7 104.5#



#50  
Toluene-d8  
Concen: 53.198 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW012079.D  
Acq: 21 Aug 2019 19:26

Tgt Ion: 98 Resp: 348035  
Ion Ratio Lower Upper  
98 100  
100 65.2 52.7 79.1





#62

4-Bromofluorobenzene

Concen: 45.827 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012079.D

Acq: 21 Aug 2019 19:26

Instrument :

MSVOA\_W

ClientSampleId :

SUNSET-PARK-SB-2-9.5-10.0

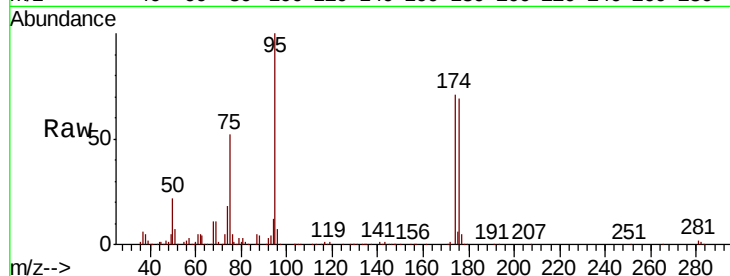
Tgt Ion: 95 Resp: 106889

Ion Ratio Lower Upper

95 100

174 76.6 0.0 150.2

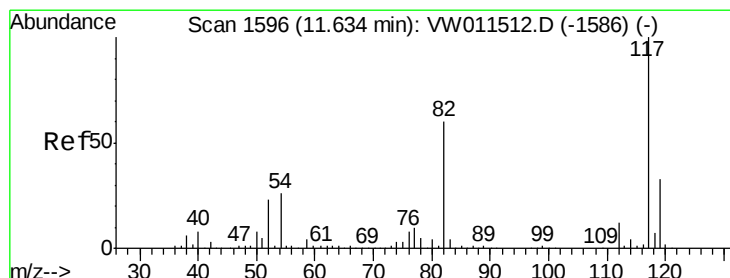
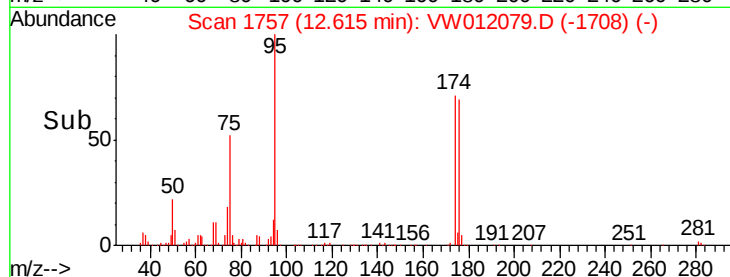
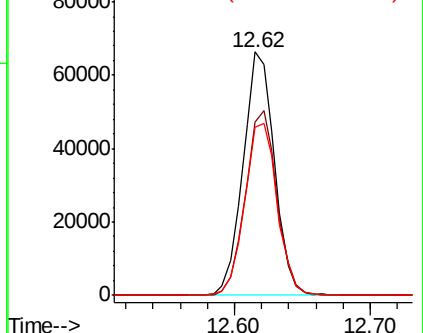
176 73.5 0.0 144.4



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VW012079.D

Acq: 21 Aug 2019 19:26

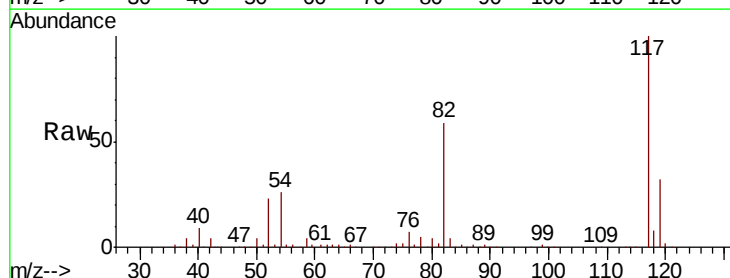
Tgt Ion: 117 Resp: 231432

Ion Ratio Lower Upper

117 100

82 59.3 47.9 71.9

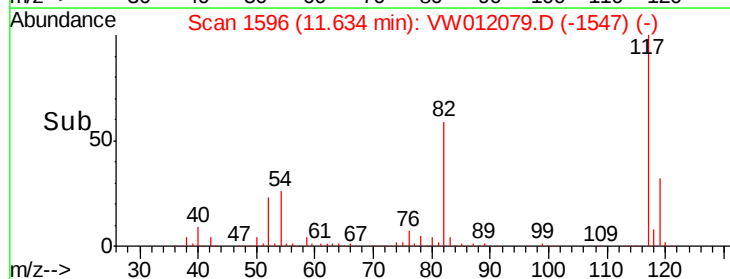
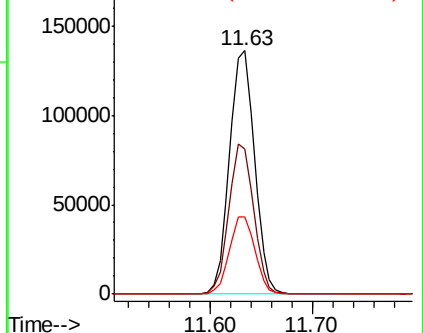
119 31.9 26.2 39.2

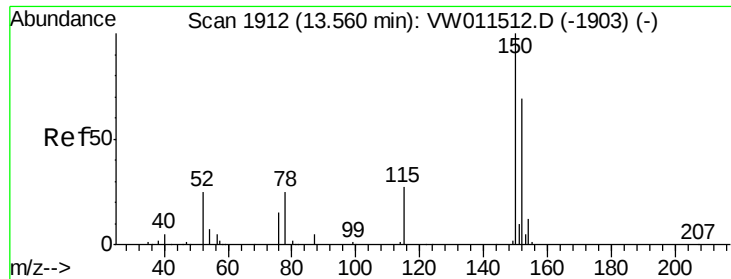


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW012079.D

Acq: 21 Aug 2019 19:26

Instrument :

MSVOA\_W

ClientSampleId :

SUNSET-PARK-SB-2-9.5-10.0

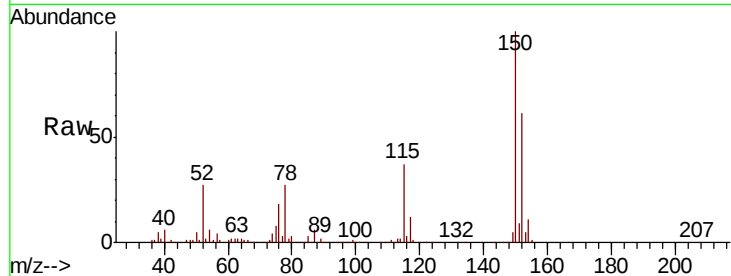
Tgt Ion: 152 Resp: 92744

Ion Ratio Lower Upper

152 100

115 59.6 30.5 91.5

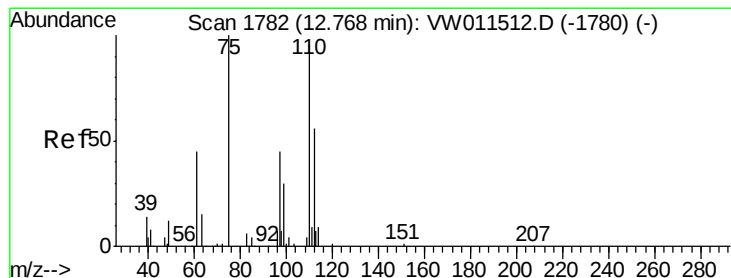
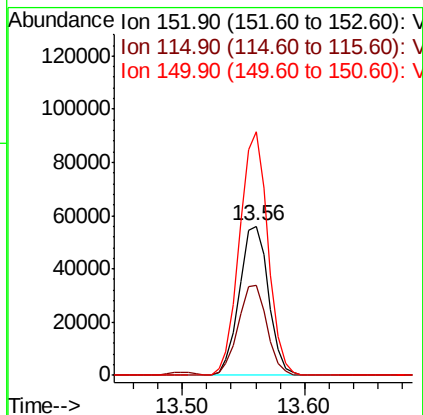
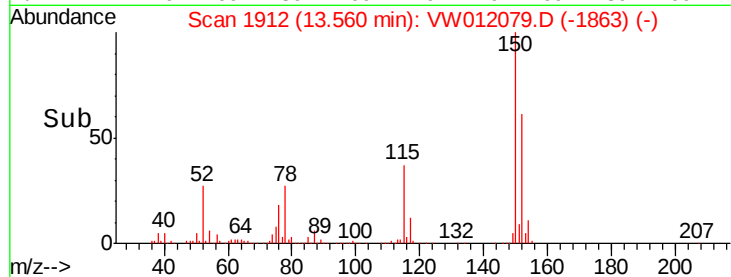
150 158.6 0.0 352.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 58.633 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012079.D

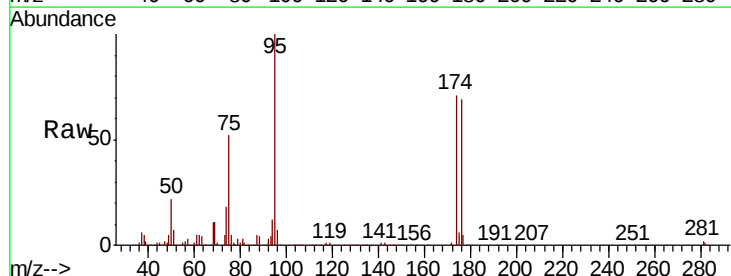
Acq: 21 Aug 2019 19:26

Tgt Ion: 75 Resp: 57539

Ion Ratio Lower Upper

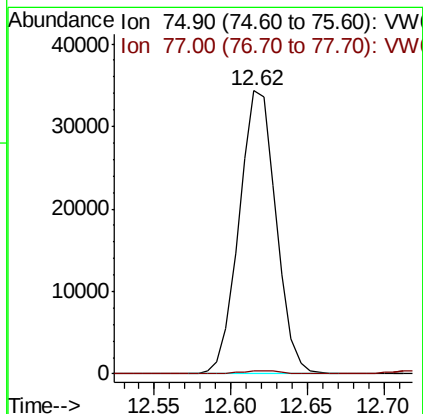
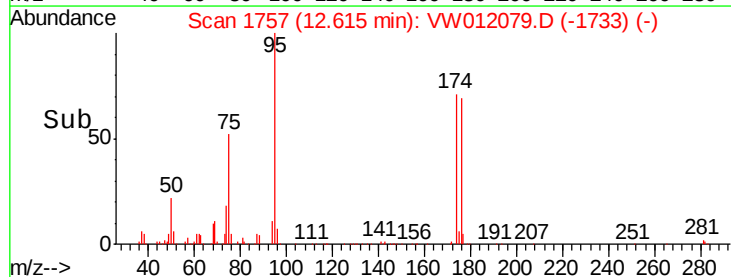
75 100

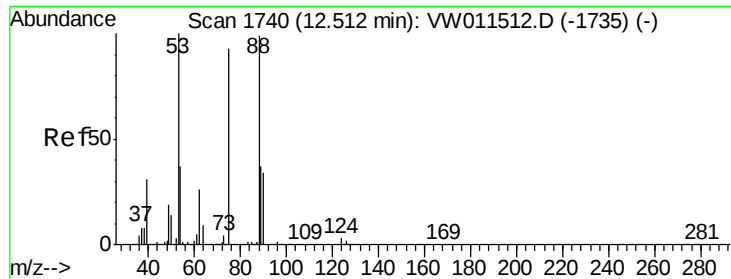
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

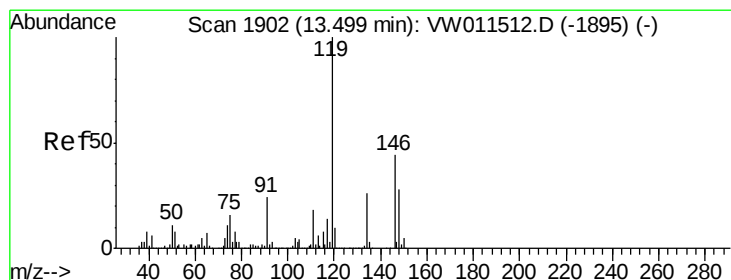
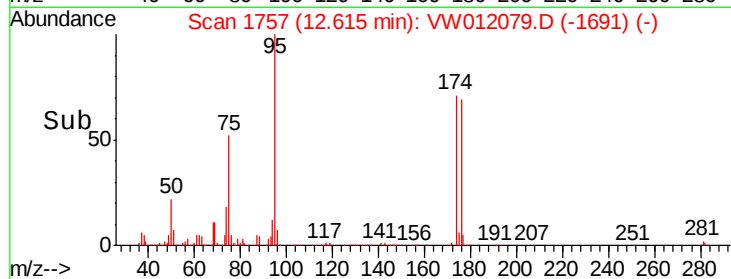
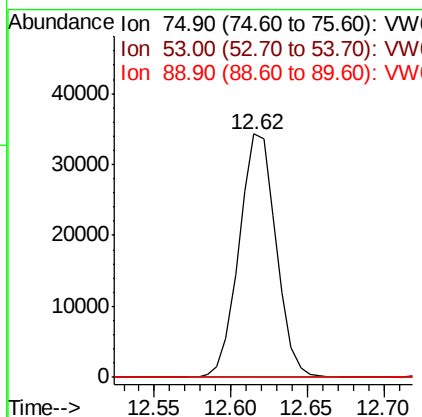
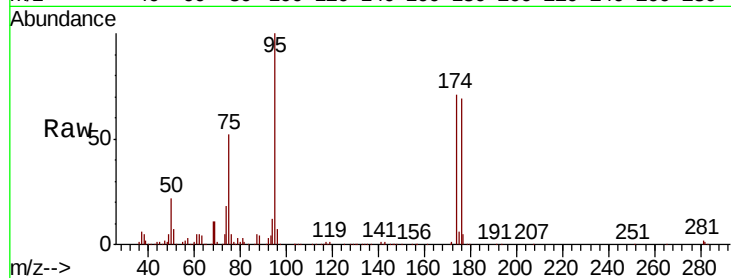




#81  
trans-1,4-Dichloro-2-butene  
Concen: 135.129 ug/l  
RT: 12.62 min Scan# 1757  
Delta R.T. 0.10 min  
Lab File: VW012079.D  
Acq: 21 Aug 2019 19:26

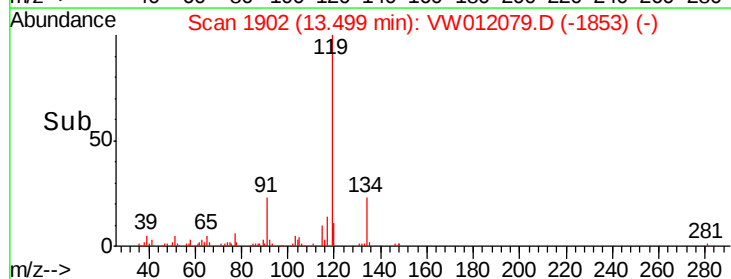
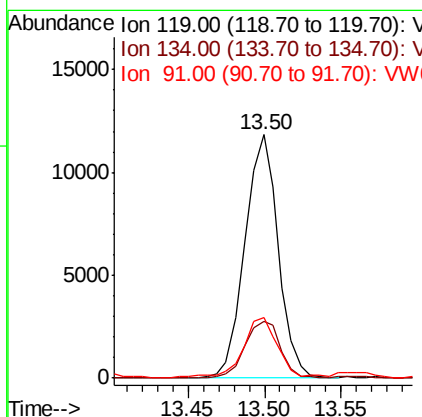
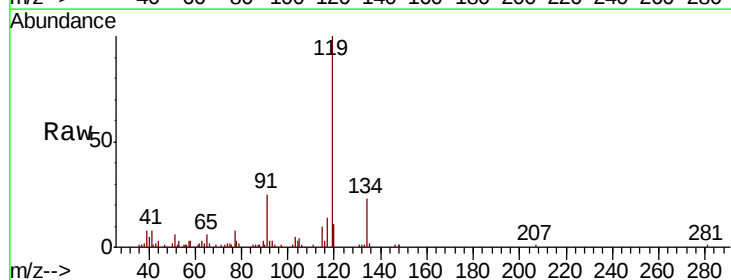
Instrument :  
MSVOA\_W  
ClientSampleId :  
SUNSET-PARK-SB-2-9.5-10.0

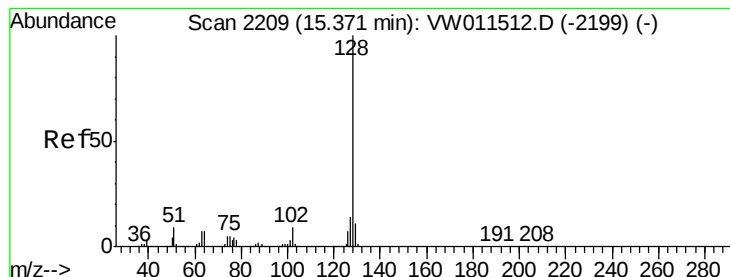
Tgt Ion: 75 Resp: 57539  
Ion Ratio Lower Upper  
75 100  
53 0.1 88.0 132.0#  
89 0.0 35.3 52.9#



#86  
p-Isopropyltoluene  
Concen: 2.844 ug/l  
RT: 13.50 min Scan# 1902  
Delta R.T. -0.00 min  
Lab File: VW012079.D  
Acq: 21 Aug 2019 19:26

Tgt Ion: 119 Resp: 17858  
Ion Ratio Lower Upper  
119 100  
134 24.8 12.8 38.4  
91 26.0 12.1 36.3





#95

Naphthalene

Concen: 2.188 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW012079.D

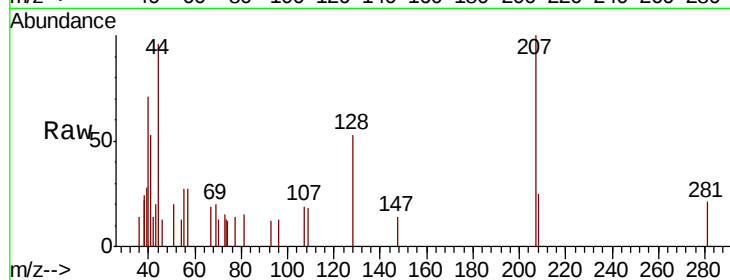
Acq: 21 Aug 2019 19:26

Instrument :

MSVOA\_W

ClientSampleId :

SUNSET-PARK-SB-2-9.5-10.0



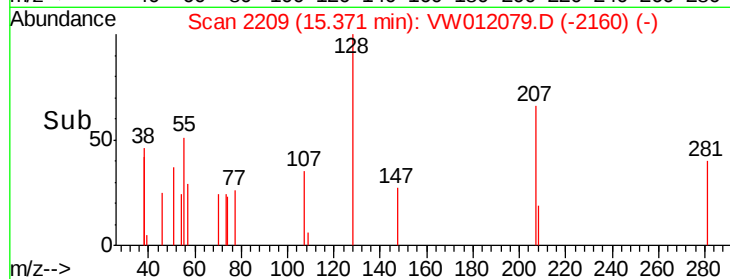
Tgt Ion:128 Resp: 466

Ion Ratio Lower Upper

128 100

127 4.3 10.6 16.0#

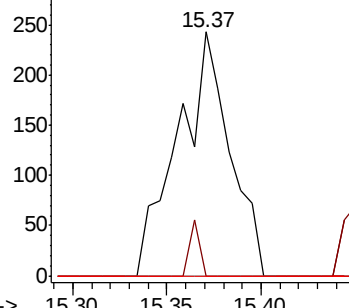
129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time--> 15.30 15.35 15.40