

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD050819\  
 Data File : VD062174.D  
 Acq On : 8 May 2019 15:15  
 Operator : FY/SY  
 Sample : K2717-02  
 Misc : 6.38g/5mL/MSVOA D/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 P026-SS001-0206-01

Quant Time: May 09 01:24:45 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D050719S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 07 14:26:29 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.02  | 168  | 15767    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.19  | 114  | 24154    | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.36 | 117  | 20265    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.51 | 152  | 9487     | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.42  | 65   | 10569    | 72.13 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 144.26% |          |
| 35) Dibromofluoromethane    | 6.89  | 113  | 10351    | 51.65 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.30% |          |
| 50) Toluene-d8              | 10.39 | 98   | 26042    | 53.89 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.78% |          |
| 62) 4-Bromofluorobenzene    | 13.55 | 95   | 10531    | 54.27 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 108.54% |          |

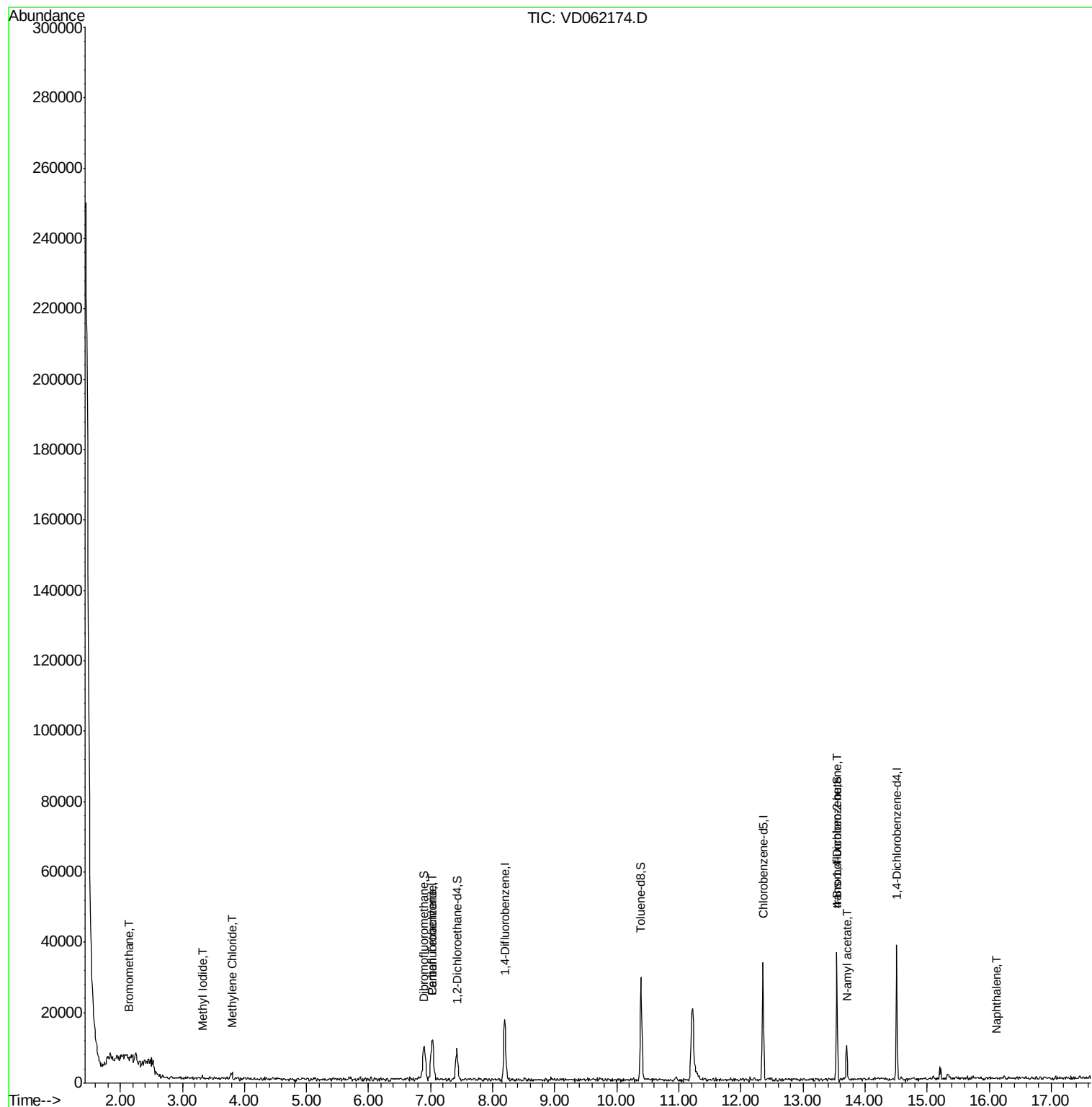
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 5) Bromomethane                | 2.13  | 94   | 2834     | 112.944 | ug/l # | 12     |
| 10) Methyl Iodide              | 3.32  | 142  | 391      | 1.643   | ug/l # | 37     |
| 20) Methylene Chloride         | 3.81  | 84   | 1039     | 8.098   | ug/l # | 8      |
| 38) Carbon Tetrachloride       | 7.03  | 117  | 931      | 3.397   | ug/l # | 12     |
| 74) N-amyl acetate             | 13.69 | 43   | 245      | 1.643   | ug/l # | 49     |
| 81) trans-1,4-Dichloro-2-buten | 13.55 | 75   | 4232     | 132.962 | ug/l # | 16     |
| 95) Naphthalene                | 16.11 | 128  | 260      | 1.068   | ug/l # | 70     |

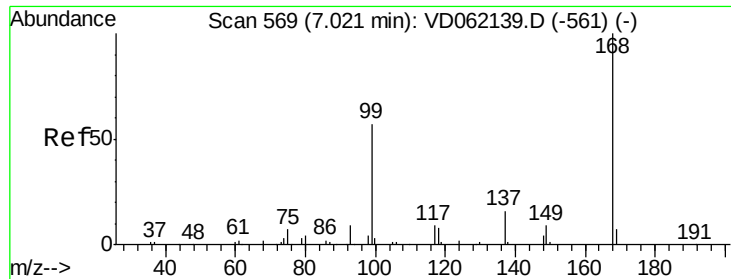
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD050819\  
Data File : VD062174.D  
Acq On : 8 May 2019 15:15  
Operator : FY/SY  
Sample : K2717-02  
Misc : 6.38g/5mL/MSVOA D/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
P026-SS001-0206-01

Quant Time: May 09 01:24:45 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D050719S.M  
Quant Title : SW846 8260  
QLast Update : Tue May 07 14:26:29 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.02 min Scan# 569

Delta R.T. 0.00 min

Lab File: VD062174.D

Acq: 8 May 2019 15:15

Instrument :

MSVOA\_D

ClientSampleId :

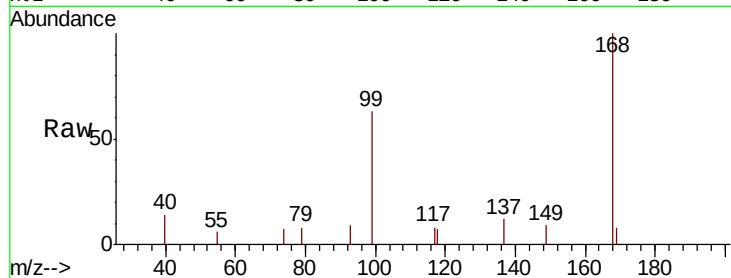
P026-SS001-0206-01

Tot Ion:168 Resp: 15767

Ion Ratio Lower Upper

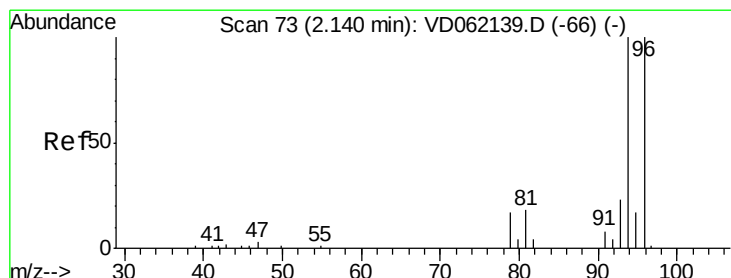
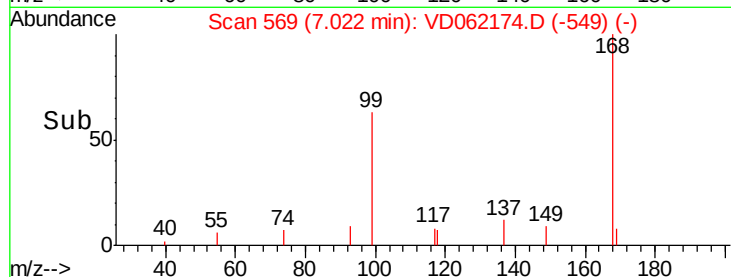
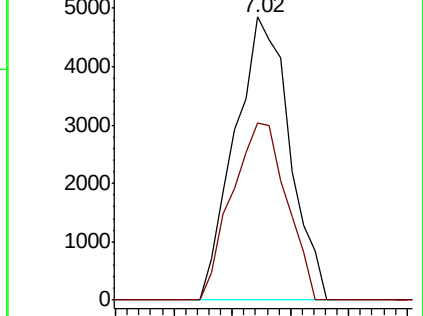
168 100

99 62.6 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 112.944 ug/l

RT: 2.13 min Scan# 72

Delta R.T. -0.01 min

Lab File: VD062174.D

Acq: 8 May 2019 15:15

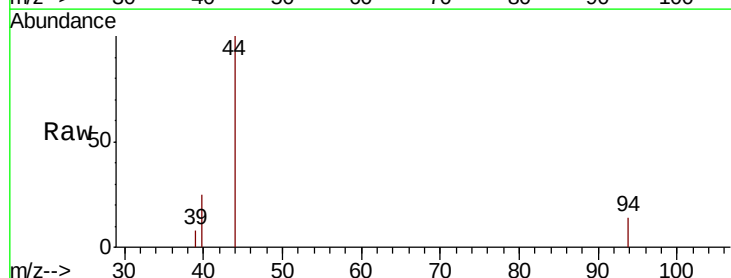
Tgt Ion: 94 Resp: 2834

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

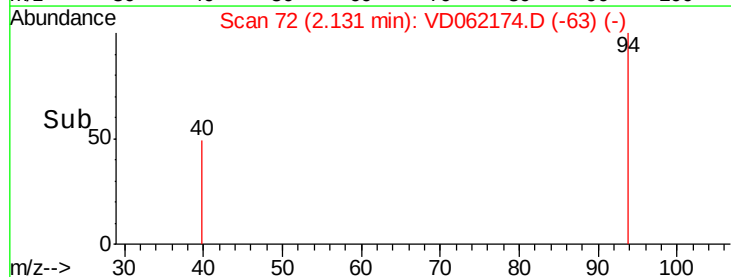
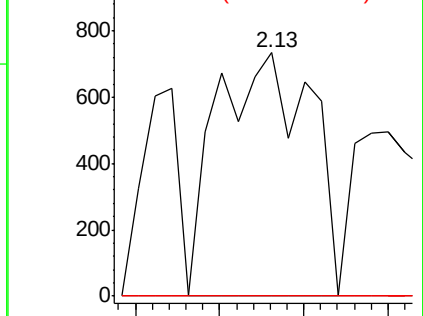
93 0.0 18.5 27.7#

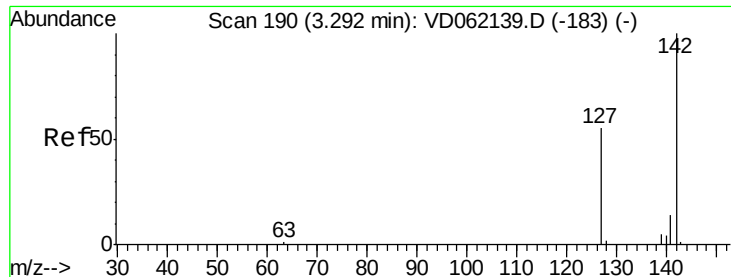


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

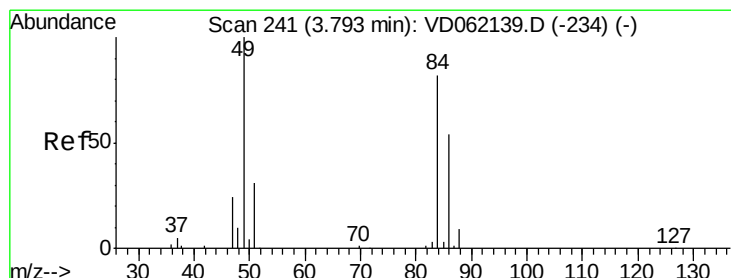
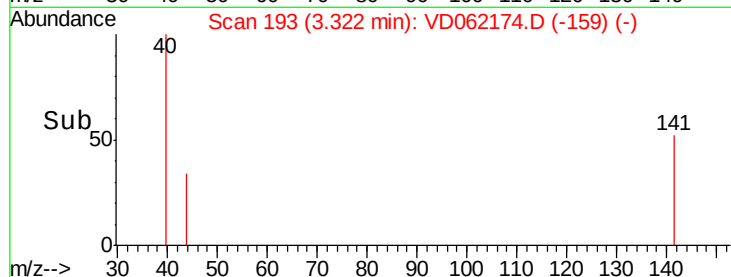
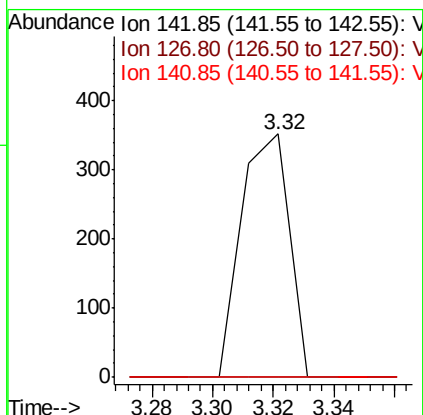
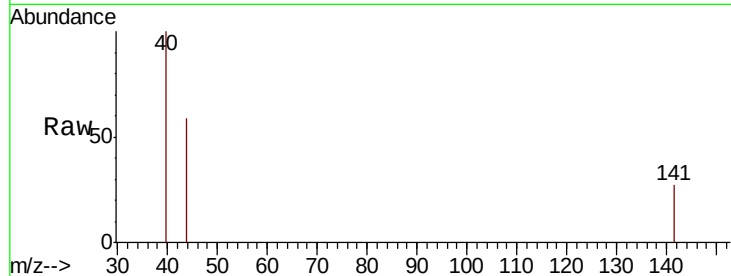




#10  
Methyl Iodide  
Concen: 1.643 ug/l  
RT: 3.32 min Scan# 193  
Delta R.T. 0.03 min  
Lab File: VD062174.D  
Acq: 8 May 2019 15:15

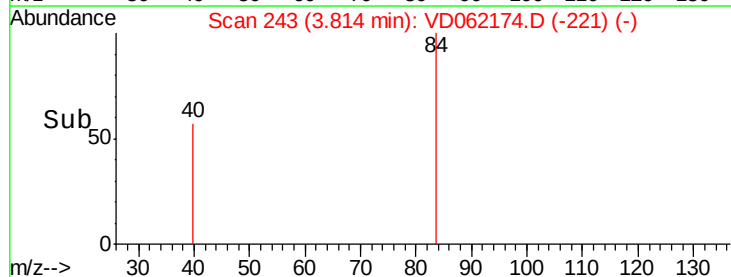
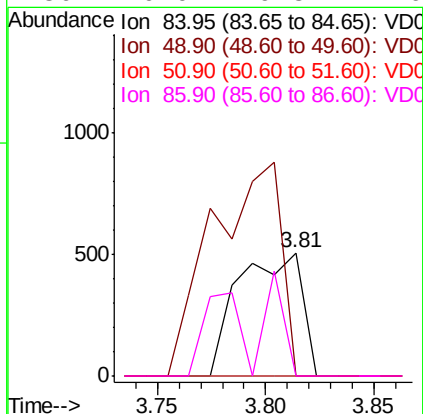
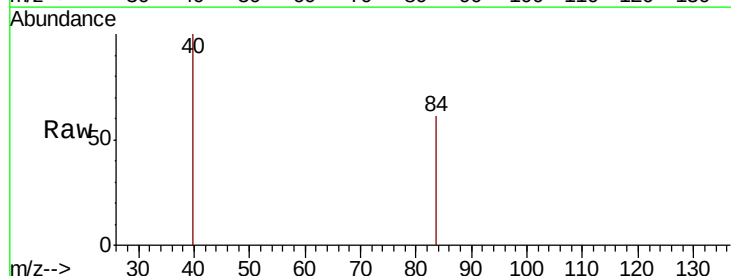
Instrument :  
MSVOA\_D  
ClientSampleId :  
P026-SS001-0206-01

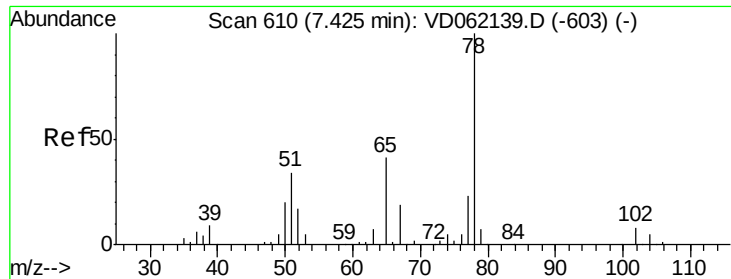
Tot Ion:142 Resp: 391  
Ion Ratio Lower Upper  
142 100  
127 0.0 38.8 58.2#  
141 0.0 11.4 17.0#



#20  
Methylene Chloride  
Concen: 8.098 ug/l  
RT: 3.81 min Scan# 243  
Delta R.T. 0.02 min  
Lab File: VD062174.D  
Acq: 8 May 2019 15:15

Tgt Ion: 84 Resp: 1039  
Ion Ratio Lower Upper  
84 100  
49 0.0 94.0 141.0#  
51 0.0 29.0 43.4#  
86 0.0 49.8 74.6#

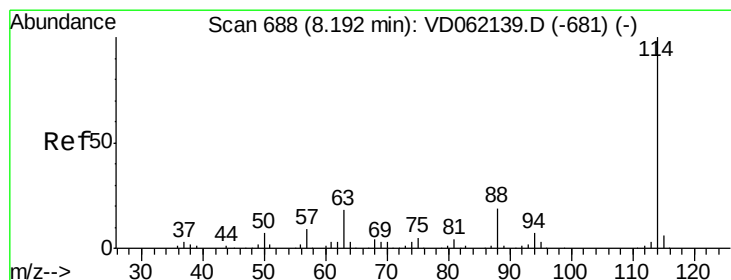
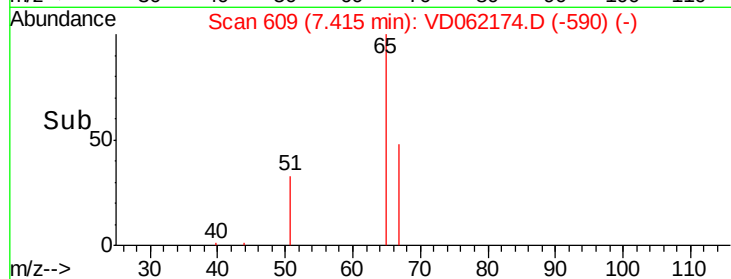
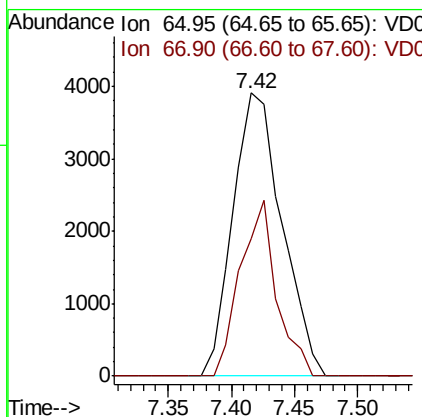
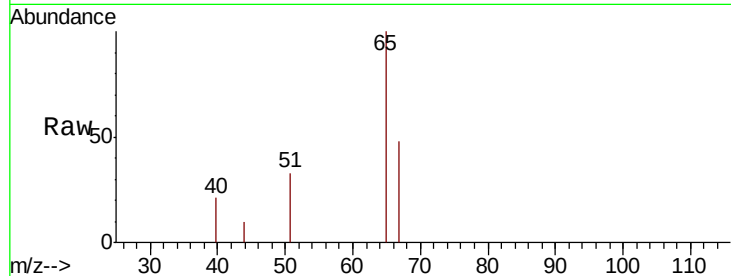




#33  
 1,2-Dichloroethane-d4  
 Concen: 72.131 ug/l  
 RT: 7.42 min Scan# 609  
 Delta R.T. -0.01 min  
 Lab File: VD062174.D  
 Acq: 8 May 2019 15:15

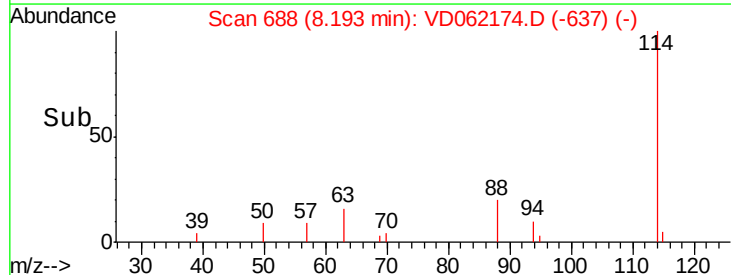
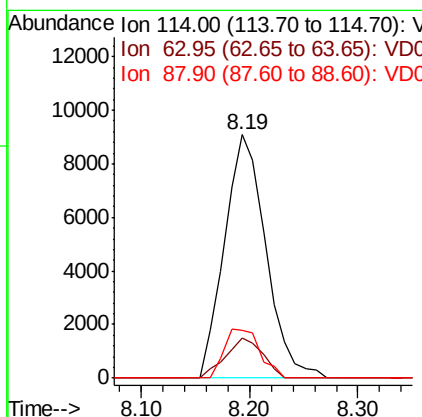
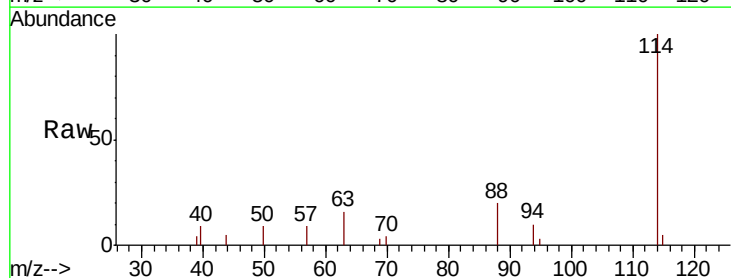
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 P026-SS001-0206-01

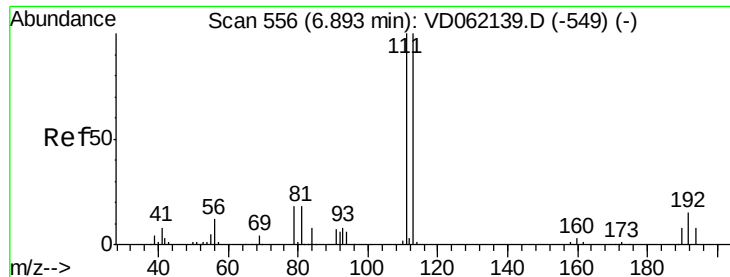
Tot Ion: 65 Resp: 10569  
 Ion Ratio Lower Upper  
 65 100  
 67 48.4 0.0 98.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.19 min Scan# 688  
 Delta R.T. 0.00 min  
 Lab File: VD062174.D  
 Acq: 8 May 2019 15:15

Tgt Ion: 114 Resp: 24154  
 Ion Ratio Lower Upper  
 114 100  
 63 16.3 0.0 32.4  
 88 19.7 0.0 33.6





#35

Dibromofluoromethane

Concen: 51.649 ug/l

RT: 6.89 min Scan# 556

Delta R.T. 0.00 min

Lab File: VD062174.D

Acq: 8 May 2019 15:15

Instrument :

MSVOA\_D

ClientSampleId :

P026-SS001-0206-01

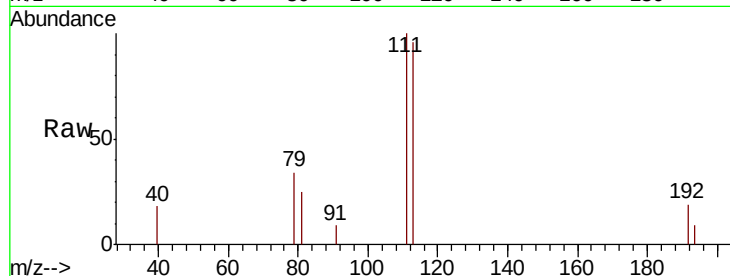
Tot Ion:113 Resp: 10351

Ion Ratio Lower Upper

113 100

111 104.0 78.5 117.7

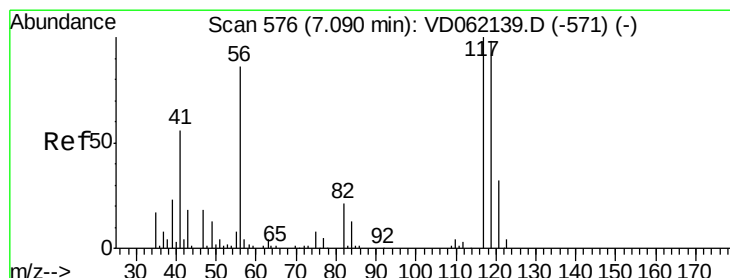
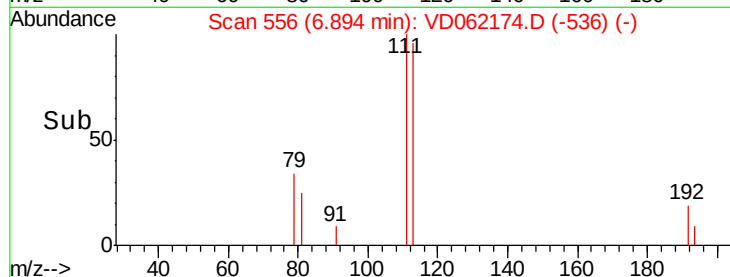
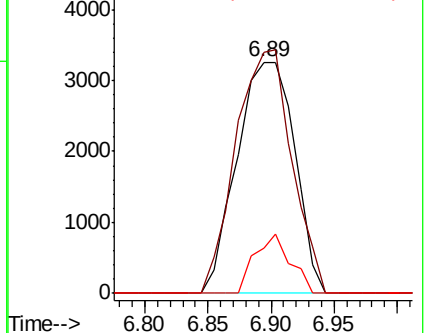
192 19.4 13.0 19.4



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#38

Carbon Tetrachloride

Concen: 3.397 ug/l

RT: 7.03 min Scan# 570

Delta R.T. -0.06 min

Lab File: VD062174.D

Acq: 8 May 2019 15:15

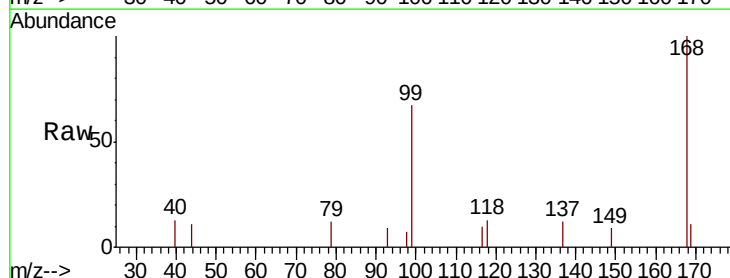
Tgt Ion:117 Resp: 931

Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.8#

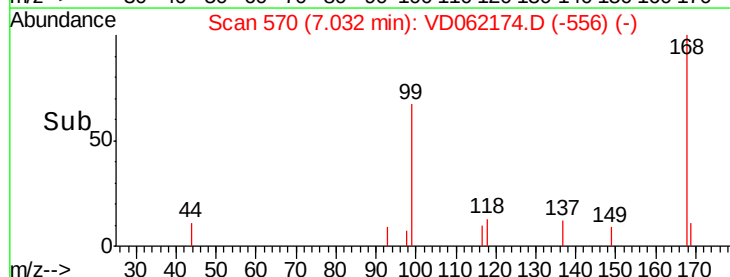
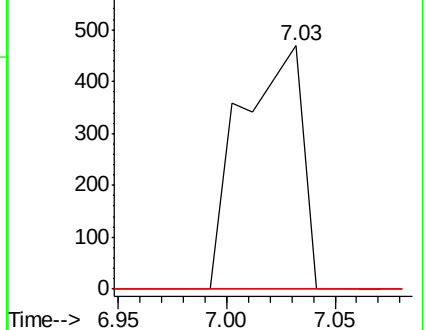
121 0.0 25.9 38.9#

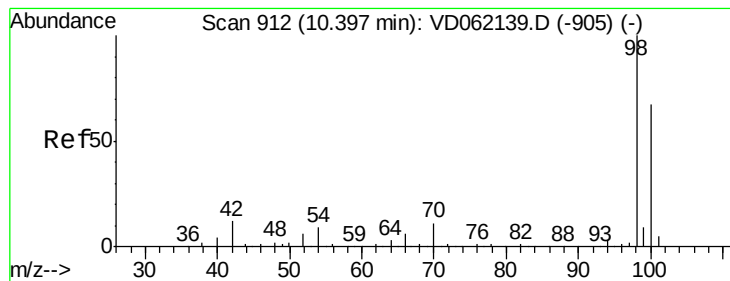


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V





#50

Toluene-d8

Concen: 53.895 ug/l

RT: 10.39 min Scan# 911

Delta R.T. -0.01 min

Lab File: VD062174.D

Acq: 8 May 2019 15:15

Instrument :

MSVOA\_D

ClientSampleId :

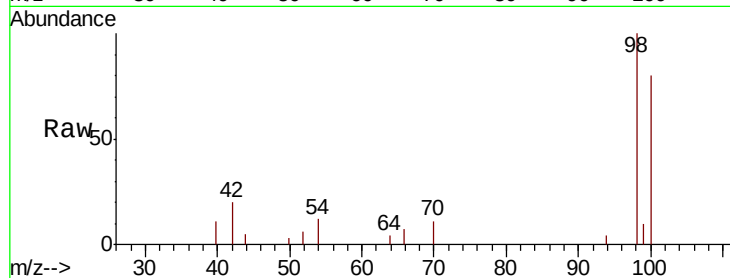
P026-SS001-0206-01

Tot Ion: 98 Resp: 26042

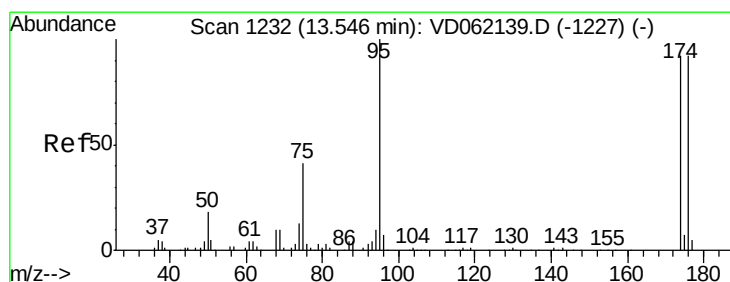
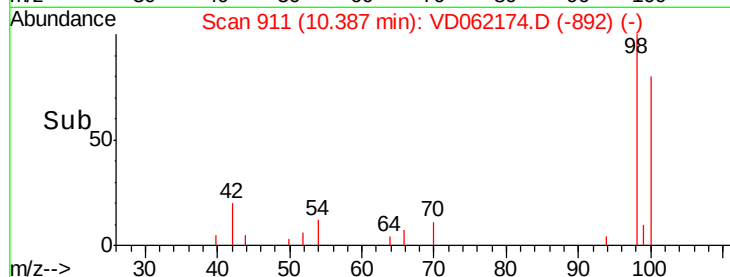
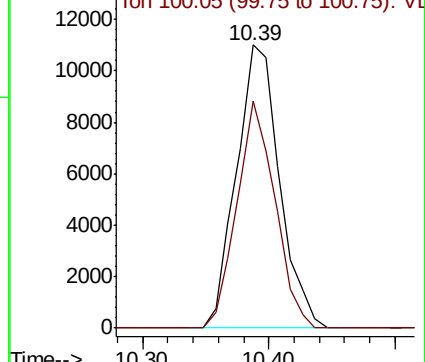
Ion Ratio Lower Upper

98 100

100 80.4 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): VD062139.D (-905) (-)



#62

4-Bromofluorobenzene

Concen: 54.274 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD062174.D

Acq: 8 May 2019 15:15

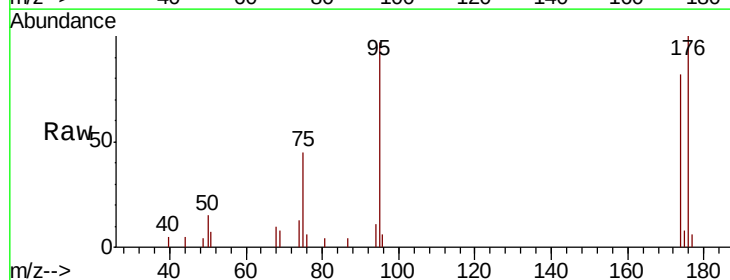
Tgt Ion: 95 Resp: 10531

Ion Ratio Lower Upper

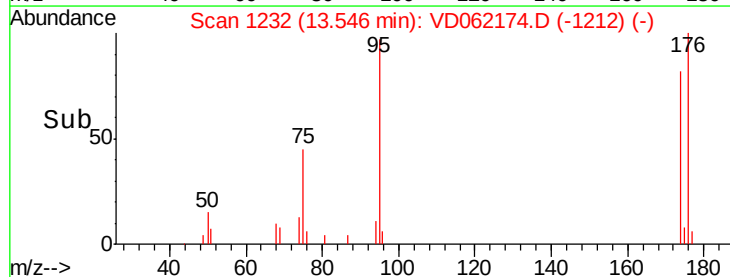
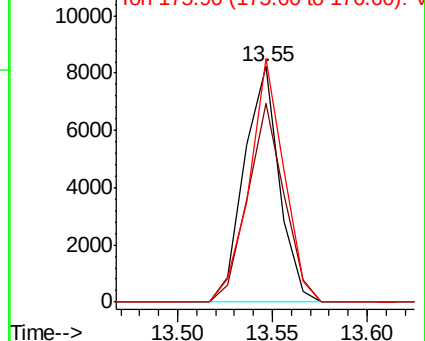
95 100

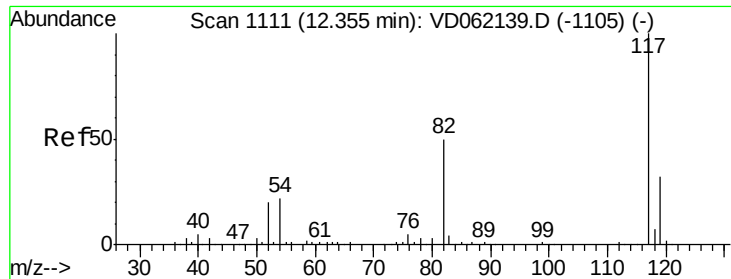
174 84.6 0.0 181.8

176 103.3 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): VD062139.D (-1227) (-)

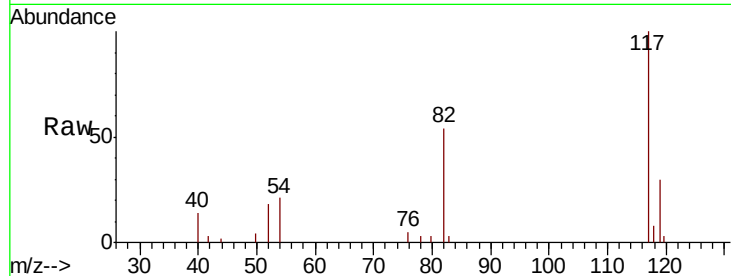




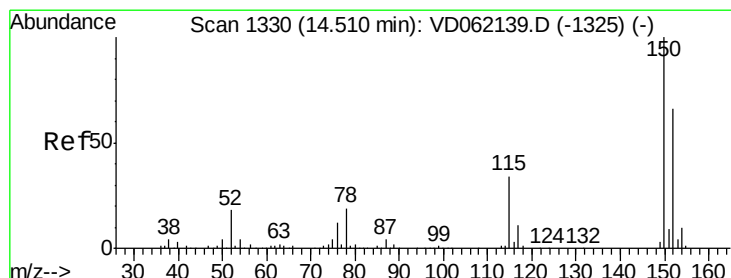
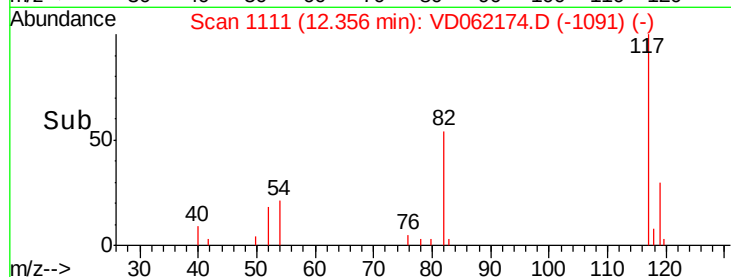
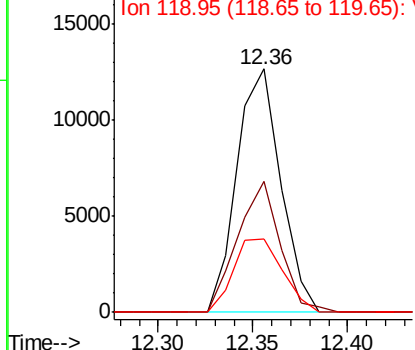
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.36 min Scan# 1111  
Delta R.T. 0.00 min  
Lab File: VD062174.D  
Acq: 8 May 2019 15:15

Instrument :  
MSVOA\_D  
ClientSampleId :  
P026-SS001-0206-01

Tot Ion:117 Resp: 20265  
Ion Ratio Lower Upper  
117 100  
82 53.6 36.2 54.2  
119 30.0 26.2 39.4

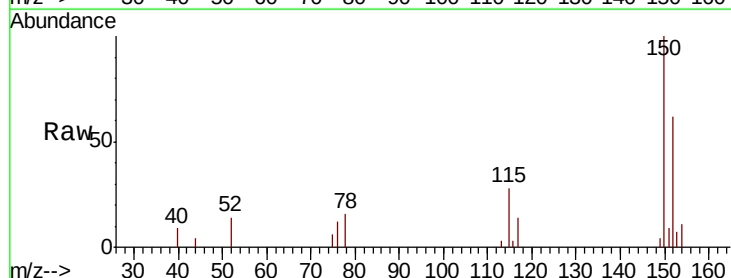


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V

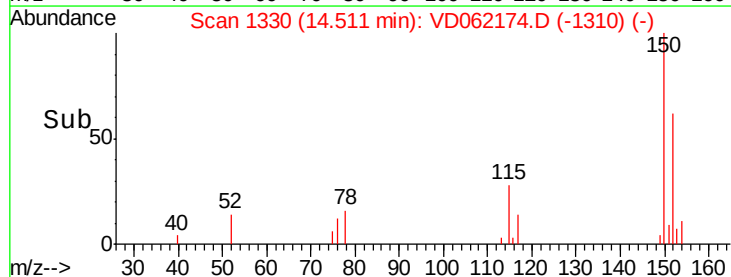
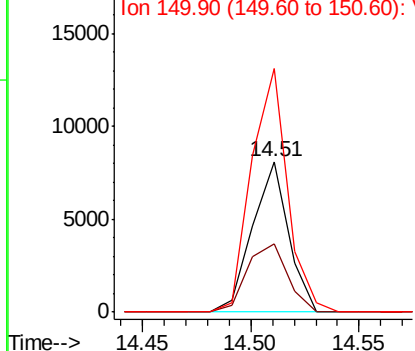


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.51 min Scan# 1330  
Delta R.T. 0.00 min  
Lab File: VD062174.D  
Acq: 8 May 2019 15:15

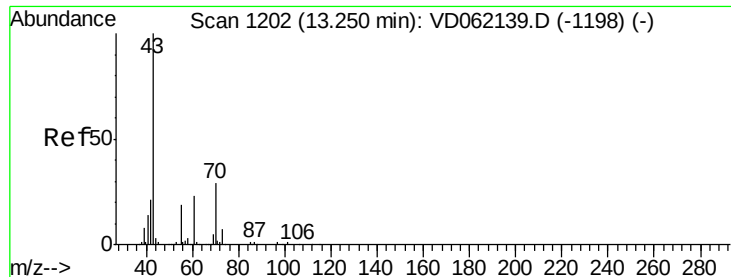
Tgt Ion:152 Resp: 9487  
Ion Ratio Lower Upper  
152 100  
115 45.1 30.9 92.7  
150 162.0 0.0 314.8



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 115.00 (114.70 to 115.70): V  
Ion 149.90 (149.60 to 150.60): V



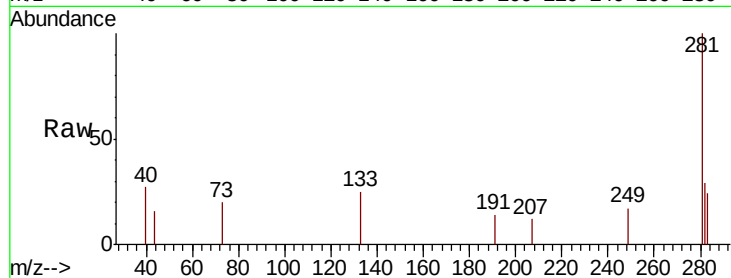




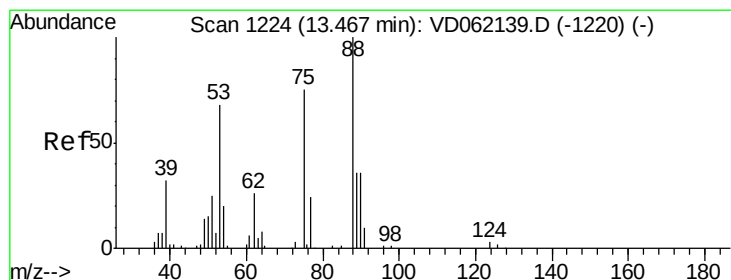
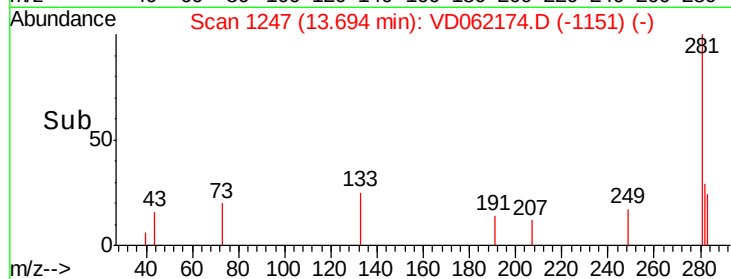
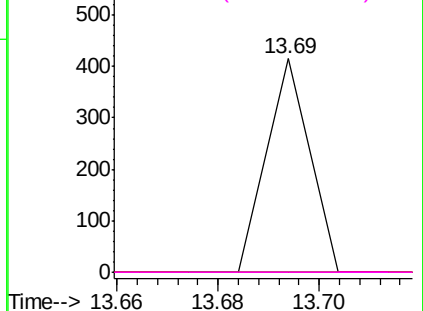
#74  
N-amvl acetate  
Concen: 1.643 ug/l  
RT: 13.69 min Scan# 1247  
Delta R.T. 0.44 min  
Lab File: VD062174.D  
Acq: 8 May 2019 15:15

Instrument :  
MSVOA\_D  
ClientSampleId :  
P026-SS001-0206-01

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43    | Resp: | 245   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 70       | 0.0   | 24.2  | 36.4# |
| 55       | 0.0   | 16.0  | 24.0# |
| 61       | 0.0   | 21.6  | 32.4# |

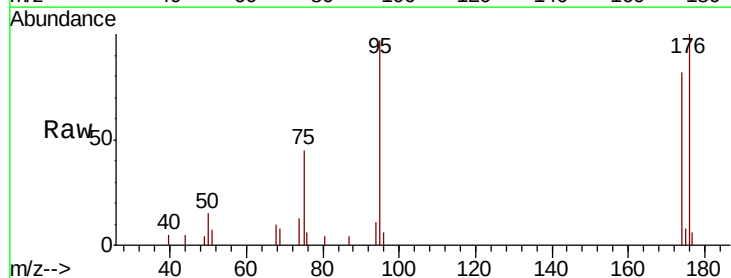


Abundance Ion 42.95 (42.65 to 43.65): VDC  
Ion 70.00 (69.70 to 70.70): VDC  
Ion 55.00 (54.70 to 55.70): VDC  
Ion 60.95 (60.65 to 61.65): VDC

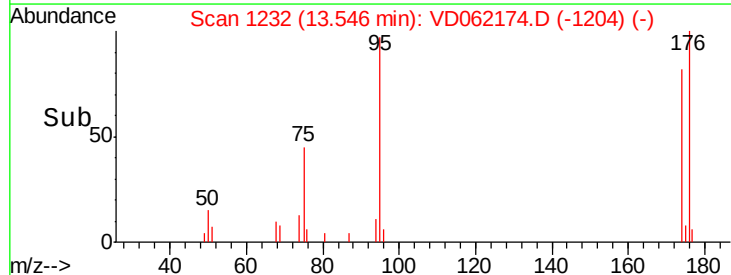
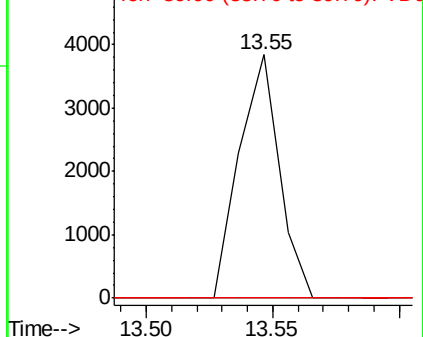


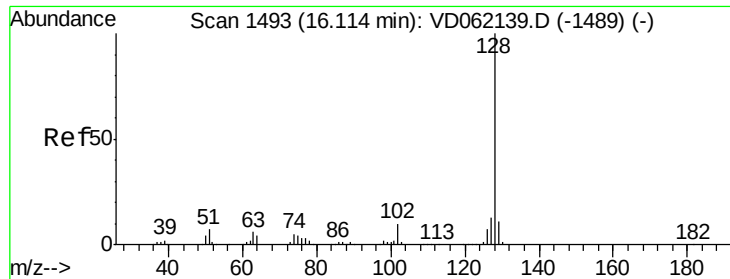
#81  
trans-1,4-Dichloro-2-butene  
Concen: 132.962 ug/l  
RT: 13.55 min Scan# 1232  
Delta R.T. 0.08 min  
Lab File: VD062174.D  
Acq: 8 May 2019 15:15

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 4232  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 53       | 0.0   | 65.8  | 98.8# |
| 89       | 0.0   | 35.0  | 52.6# |



Abundance Ion 75.00 (74.70 to 75.70): VDC  
Ion 53.00 (52.70 to 53.70): VDC  
Ion 89.00 (88.70 to 89.70): VDC





#95

Naphthalene

Concen: 1.068 ug/l

RT: 16.11 min Scan# 1493

Delta R.T. 0.00 min

Lab File: VD062174.D

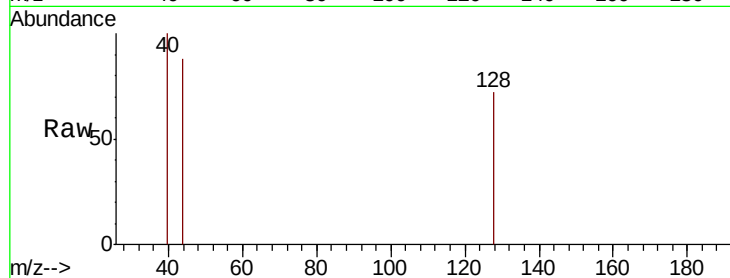
Acq: 8 May 2019 15:15

Instrument :

MSVOA\_D

ClientSampleId :

P026-SS001-0206-01



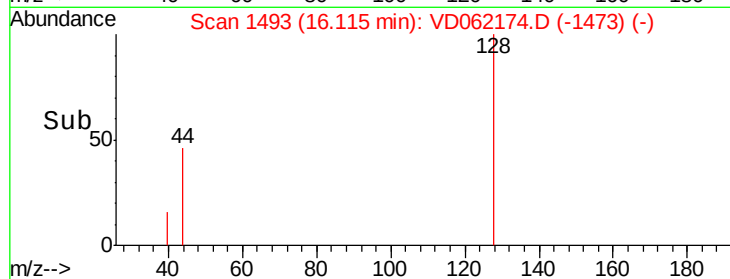
Tot Ion:128 Resp: 260

Ion Ratio Lower Upper

128 100

127 0.0 9.8 14.8#

129 0.0 8.8 13.2#



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

