

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082520\  
 Data File : VD066400.D  
 Acq On : 25 Aug 2020 14:14  
 Operator : VA/SY  
 Sample : L3785-04  
 Misc : 7.03G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 CHRT-18

Quant Time: Aug 26 08:03:53 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D082120S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 21 13:36:12 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.97  | 168  | 240742   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 367917   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 344463   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 178033   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.33  | 65   | 130147   | 55.14 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 110.28% |          |
| 35) Dibromofluoromethane    | 7.91  | 113  | 119242   | 51.83 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.66% |          |
| 50) Toluene-d8              | 10.34 | 98   | 441098   | 52.40 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.80% |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 152088   | 50.92 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.84% |          |

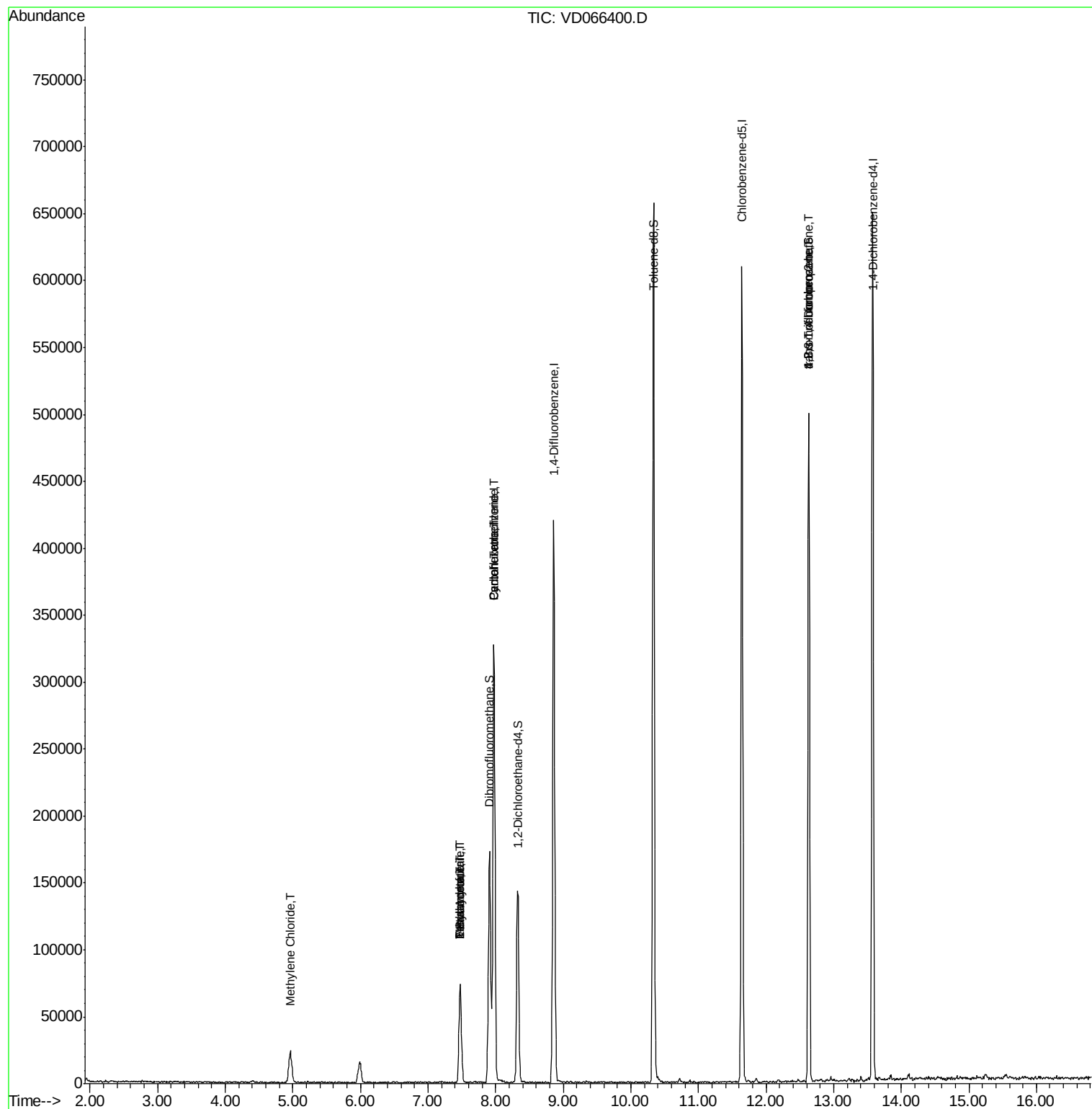
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.21  | 59   | 129      | Below Cal | #      | 71     |
| 20) Methylene Chloride         | 4.96  | 84   | 17649    | 1.637     | ug/l # | 91     |
| 25) 2-Butanone                 | 7.48  | 43   | 46412    | 96.079    | ug/l # | 47     |
| 29) Tetrahydrofuran            | 7.47  | 42   | 10108    | 36.840    | ug/l # | 28     |
| 31) Cyclohexane                | 7.97  | 56   | 5215     | 1.591     | ug/l # | 38     |
| 37) Ethyl Acetate              | 7.48  | 43   | 55357    | 48.483    | ug/l # | 67     |
| 38) Carbon Tetrachloride       | 7.97  | 117  | 24607    | 5.626     | ug/l # | 15     |
| 41) Methacrylonitrile          | 7.47  | 41   | 37957    | 53.908    | ug/l # | 84     |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 86582    | 69.129    | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75   | 86582    | 146.738   | ug/l # | 6      |

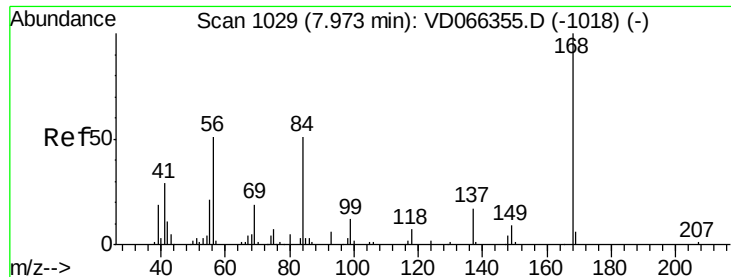
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD082520\  
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Sample : L3785-04  
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ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
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Quant Time: Aug 26 08:03:53 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D082120S.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 21 13:36:12 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.00 min

Lab File: VD066400.D

Acq: 25 Aug 2020 14:14

Instrument :

MSVOA\_D

ClientSampleId :

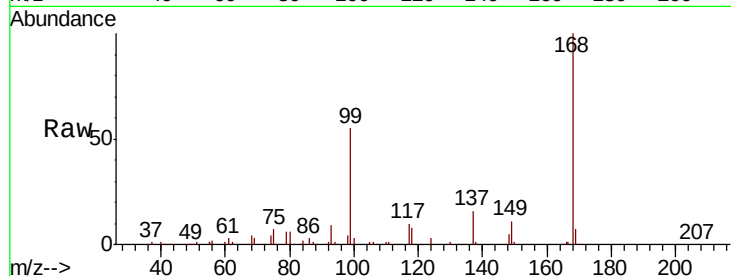
CHRT-18

Tot Ion:168 Resp: 240742

Ion Ratio Lower Upper

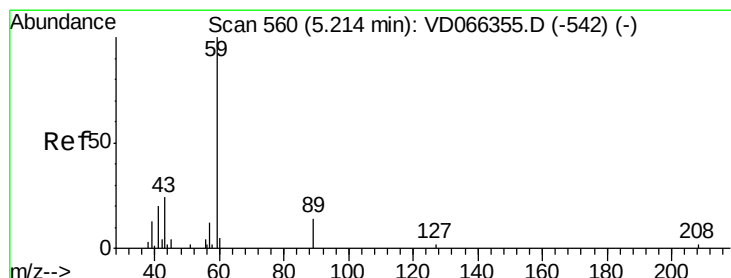
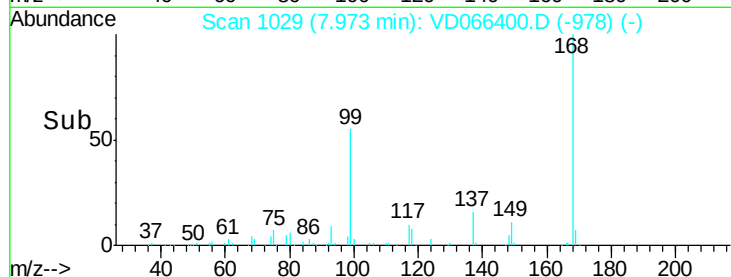
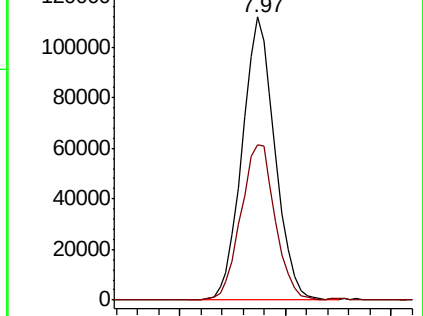
168 100

99 54.7 45.4 68.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.21 min Scan# 560

Delta R.T. 0.00 min

Lab File: VD066400.D

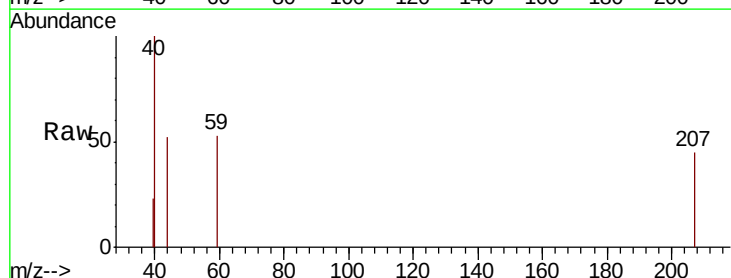
Acq: 25 Aug 2020 14:14

Tgt Ion: 59 Resp: 129

Ion Ratio Lower Upper

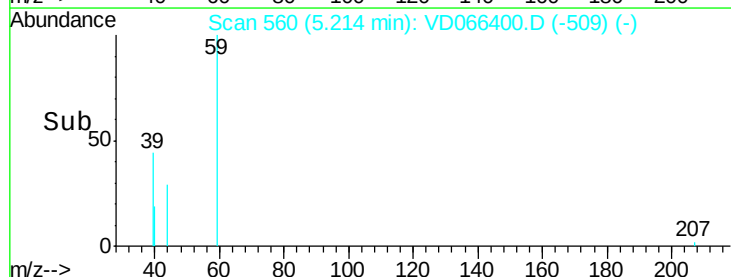
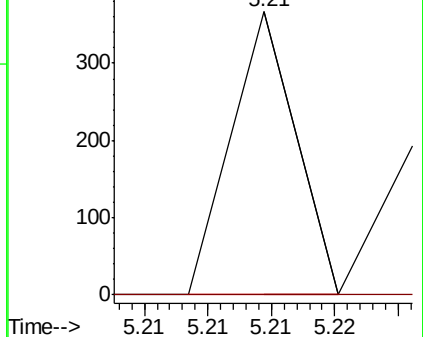
59 100

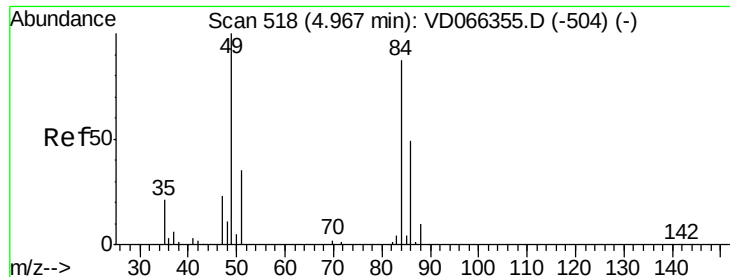
57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

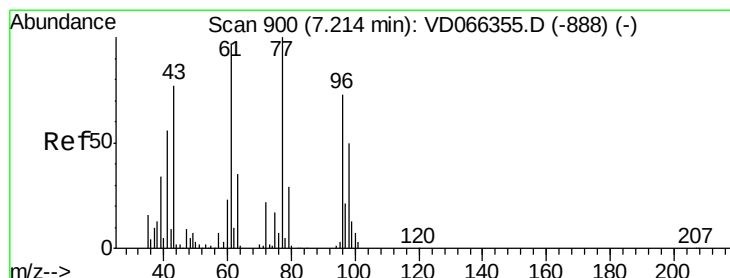
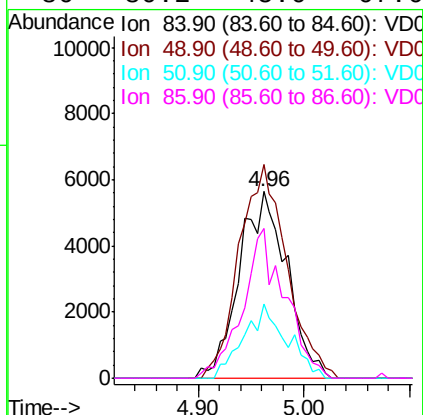
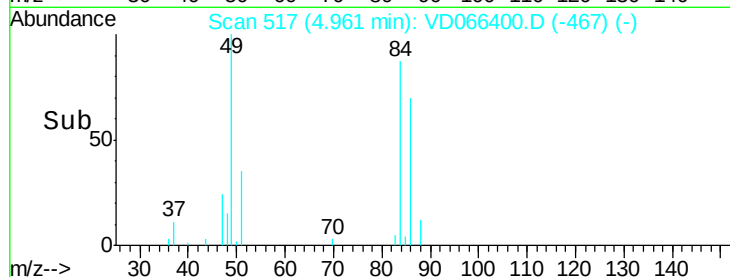
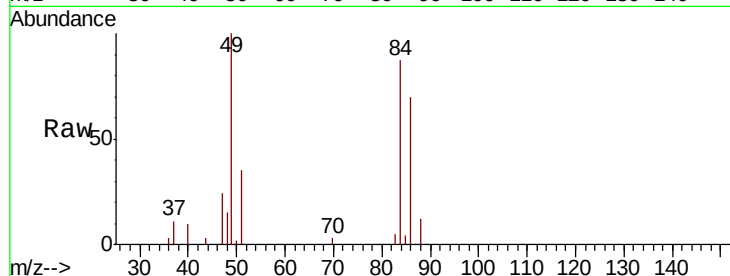




#20  
Methylene Chloride  
Concen: 1.637 ug/l  
RT: 4.96 min Scan# 517  
Delta R.T. -0.01 min  
Lab File: VD066400.D  
Acq: 25 Aug 2020 14:14

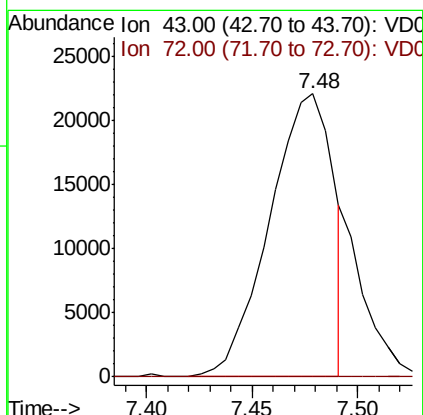
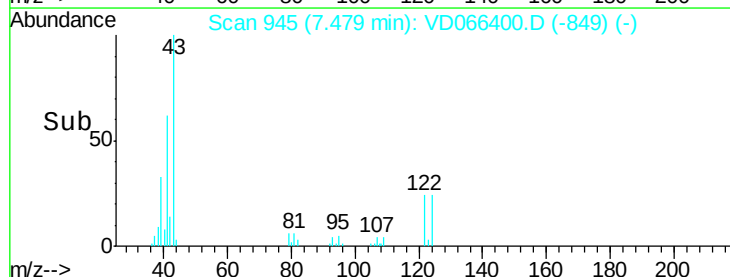
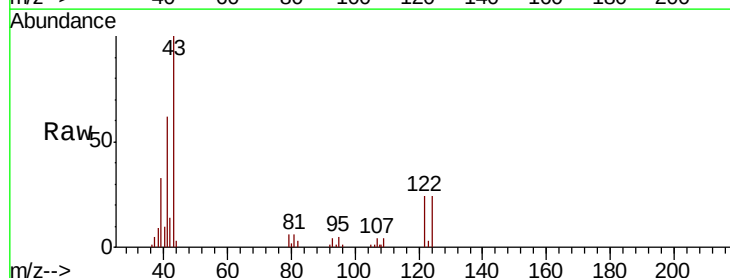
Instrument :  
MSVOA\_D  
ClientSampled :  
CHRT-18

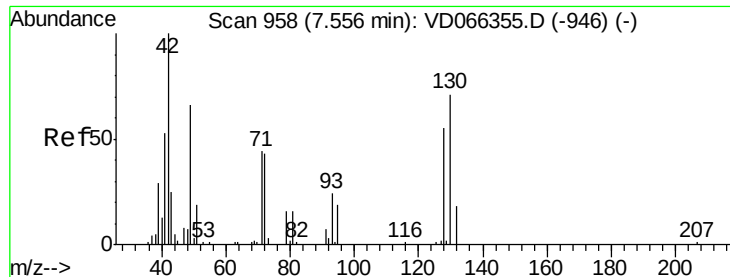
Tot Ion: 84 Resp: 17649  
Ion Ratio Lower Upper  
84 100  
49 114.6 92.5 138.7  
51 39.9 32.5 48.7  
86 80.2 45.0 67.6#



#25  
2-Butanone  
Concen: 96.079 ug/l  
RT: 7.48 min Scan# 945  
Delta R.T. 0.26 min  
Lab File: VD066400.D  
Acq: 25 Aug 2020 14:14

Tgt Ion: 43 Resp: 46412  
Ion Ratio Lower Upper  
43 100  
72 0.0 22.5 33.7#

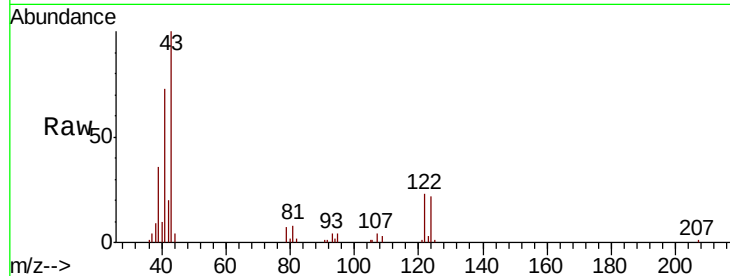




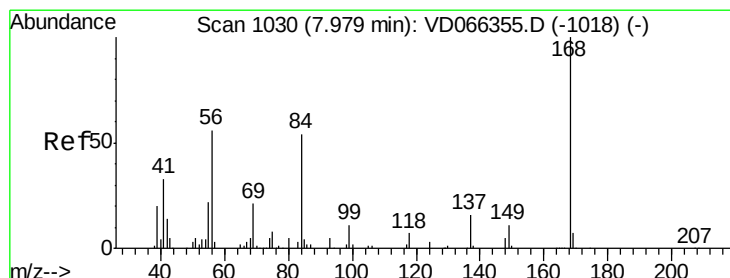
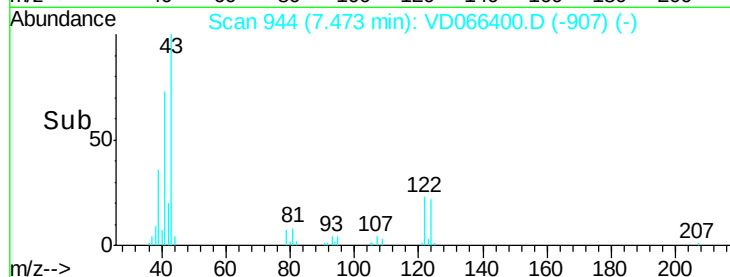
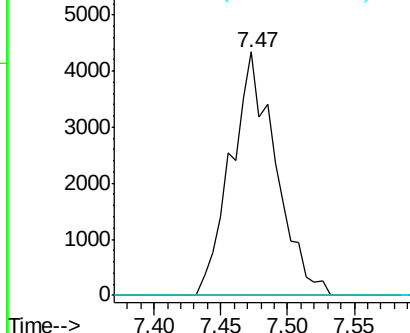
#29  
Tetrahydrofuran  
Concen: 36.840 ug/l  
RT: 7.47 min Scan# 944  
Delta R.T. -0.08 min  
Lab File: VD066400.D  
Acq: 25 Aug 2020 14:14

Instrument :  
MSVOA\_D  
ClientSampled :  
CHRT-18

Tot Ion: 42 Resp: 10108  
Ion Ratio Lower Upper  
42 100  
72 0.0 41.0 61.4#  
71 0.0 37.2 55.8#

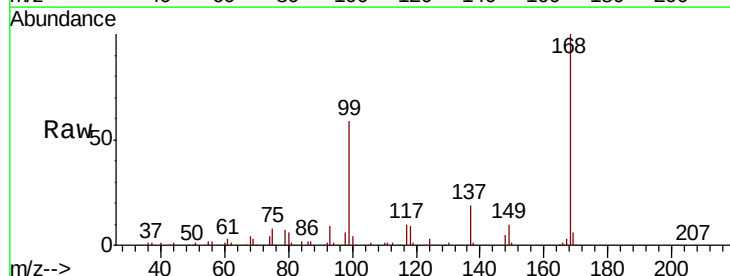


Abundance Ion 42.00 (41.70 to 42.70): VDC  
Ion 72.00 (71.70 to 72.70): VDC  
Ion 71.00 (70.70 to 71.70): VDC

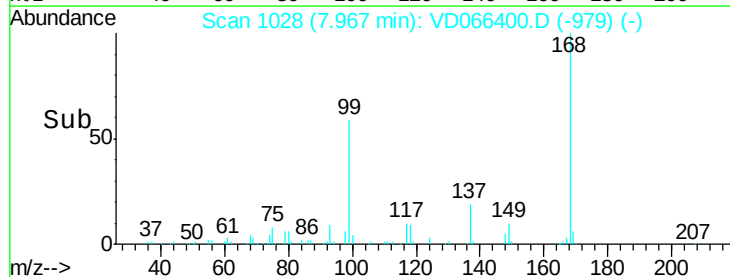
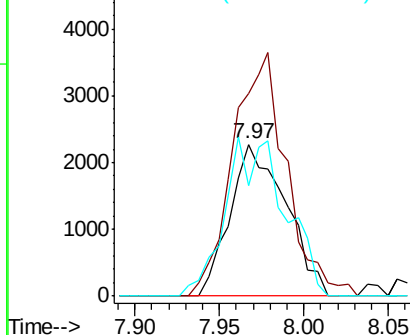


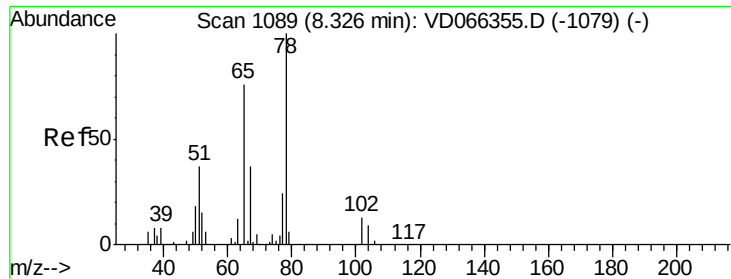
#31  
Cyclohexane  
Concen: 1.591 ug/l  
RT: 7.97 min Scan# 1028  
Delta R.T. -0.01 min  
Lab File: VD066400.D  
Acq: 25 Aug 2020 14:14

Tgt Ion: 56 Resp: 5215  
Ion Ratio Lower Upper  
56 100  
69 133.6 29.6 44.4#  
84 73.0 76.6 115.0#



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

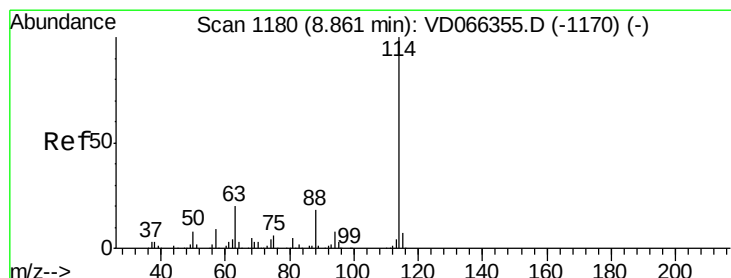
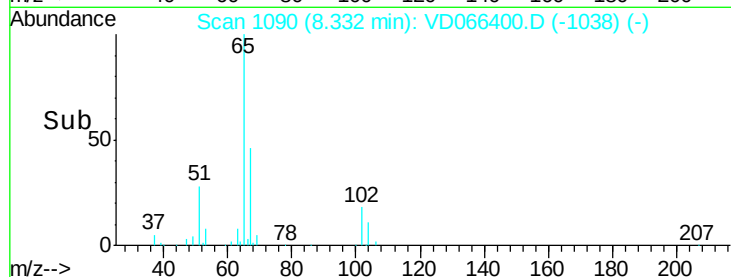
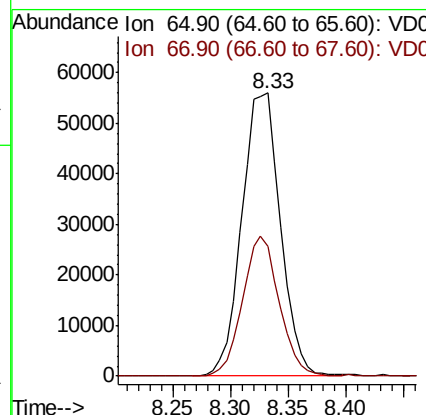
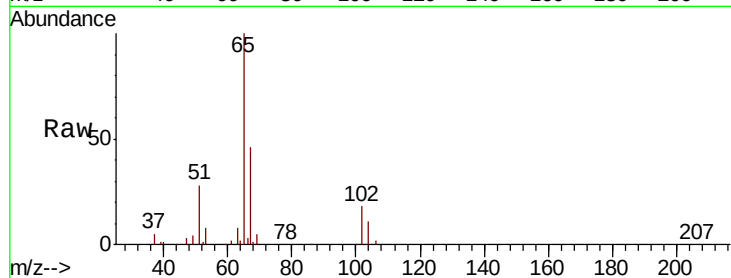




#33  
 1,2-Dichloroethane-d4  
 Concen: 55.142 ug/l  
 RT: 8.33 min Scan# 1090  
 Delta R.T. 0.01 min  
 Lab File: VD066400.D  
 Acq: 25 Aug 2020 14:14

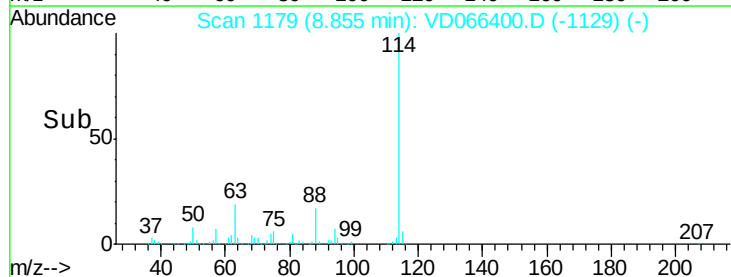
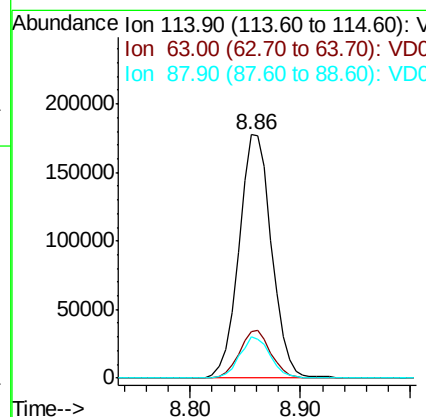
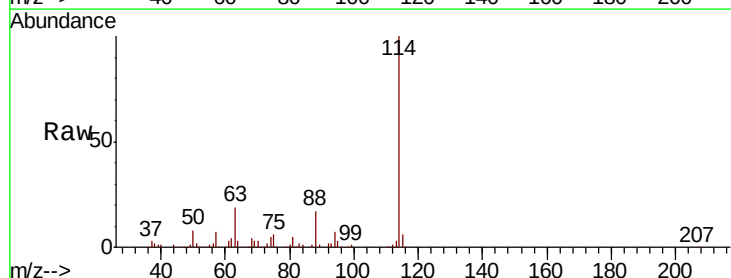
Instrument :  
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 ClientSampleId :  
 CHRT-18

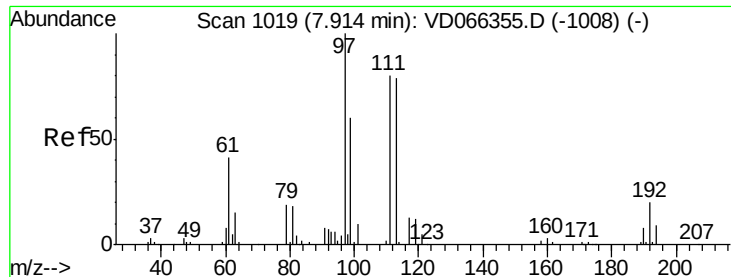
Tot Ion: 65 Resp: 130147  
 Ion Ratio Lower Upper  
 65 100  
 67 46.9 0.0 101.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.86 min Scan# 1179  
 Delta R.T. -0.01 min  
 Lab File: VD066400.D  
 Acq: 25 Aug 2020 14:14

Tgt Ion: 114 Resp: 367917  
 Ion Ratio Lower Upper  
 114 100  
 63 19.1 0.0 40.8  
 88 16.8 0.0 35.4

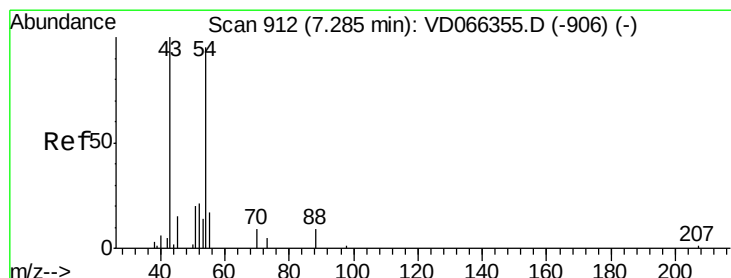
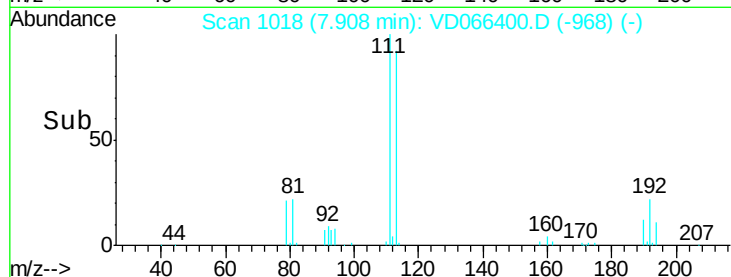
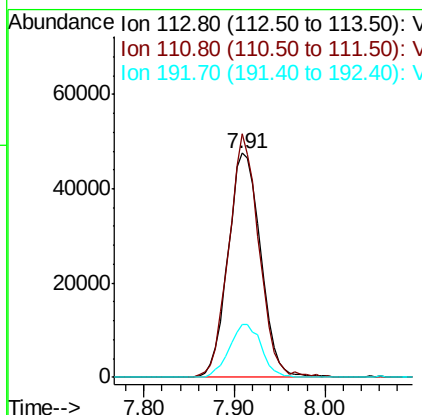
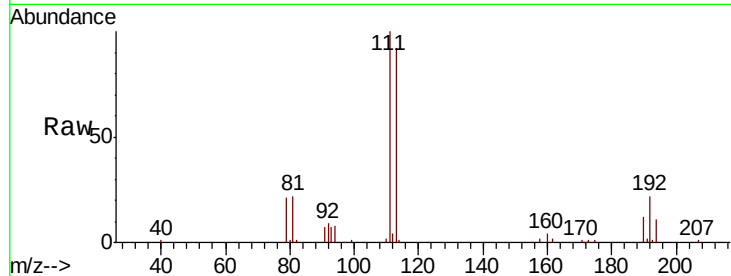




#35  
 Dibromofluoromethane  
 Concen: 51.830 ug/l  
 RT: 7.91 min Scan# 1018  
 Delta R.T. -0.01 min  
 Lab File: VD066400.D  
 Acq: 25 Aug 2020 14:14

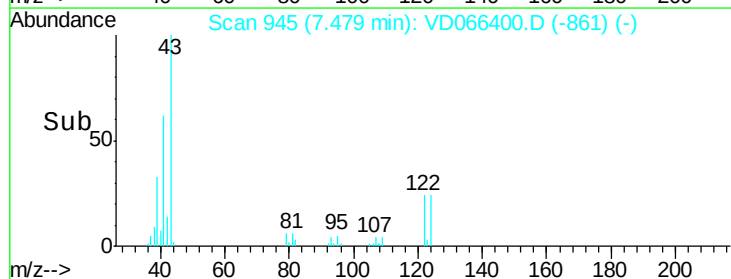
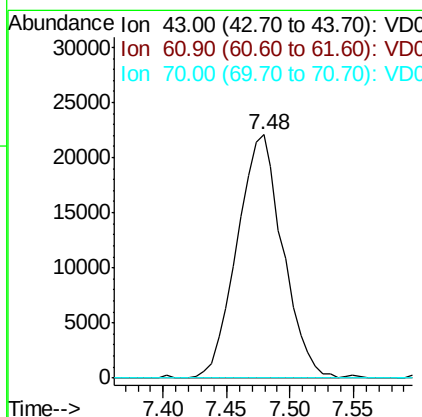
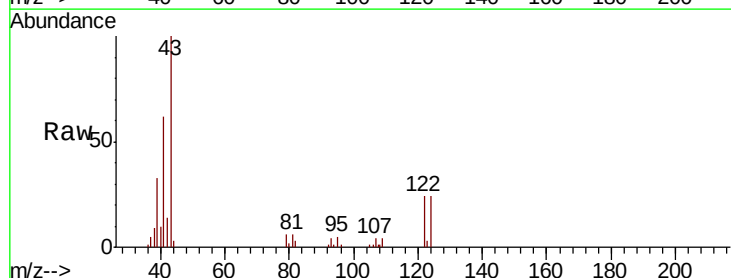
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 CHRT-18

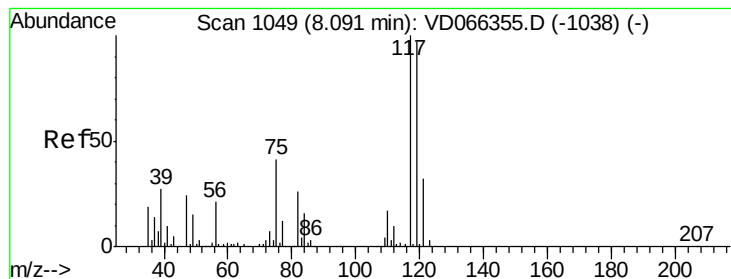
Tot Ion:113 Resp: 119242  
 Ion Ratio Lower Upper  
 113 100  
 111 100.6 80.3 120.5  
 192 23.1 19.0 28.6



#37  
 Ethyl Acetate  
 Concen: 48.483 ug/l  
 RT: 7.48 min Scan# 945  
 Delta R.T. 0.19 min  
 Lab File: VD066400.D  
 Acq: 25 Aug 2020 14:14

Tgt Ion: 43 Resp: 55357  
 Ion Ratio Lower Upper  
 43 100  
 61 0.0 13.3 19.9#  
 70 0.0 3.5 5.3#





#38

Carbon Tetrachloride

Concen: 5.626 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.12 min

Lab File: VD066400.D

Acq: 25 Aug 2020 14:14

Instrument :

MSVOA\_D

ClientSampled :

CHRT-18

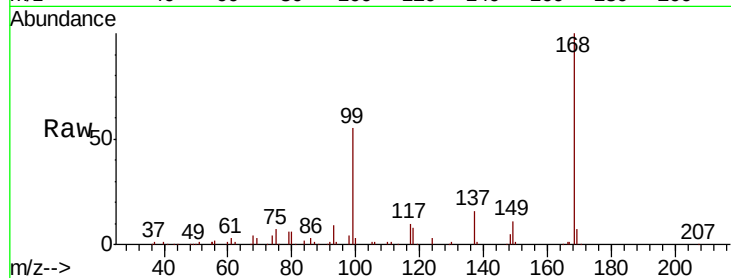
Tot Ion:117 Resp: 24607

Ion Ratio Lower Upper

117 100

119 4.9 77.2 115.8#

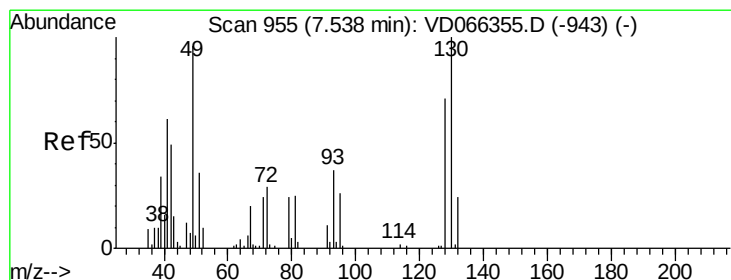
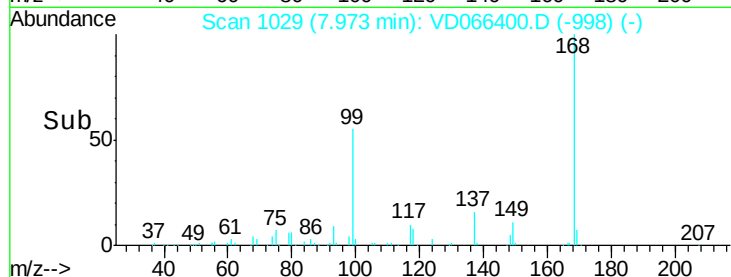
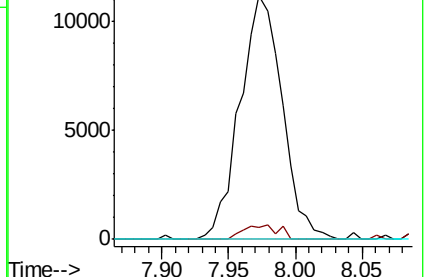
121 0.0 25.8 38.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 53.908 ug/l

RT: 7.47 min Scan# 944

Delta R.T. -0.06 min

Lab File: VD066400.D

Acq: 25 Aug 2020 14:14

Tgt Ion: 41 Resp: 37957

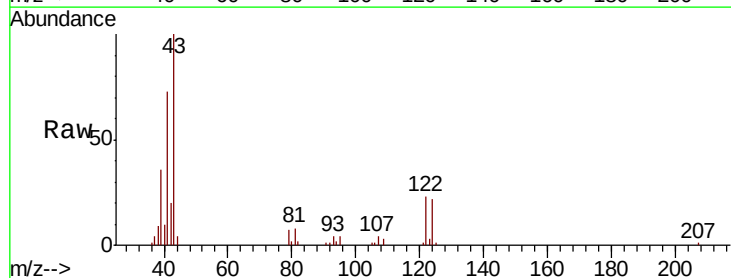
Ion Ratio Lower Upper

41 100

39 52.1 51.8 77.8

67 0.0 0.0 0.0

52 0.0 0.0 0.0

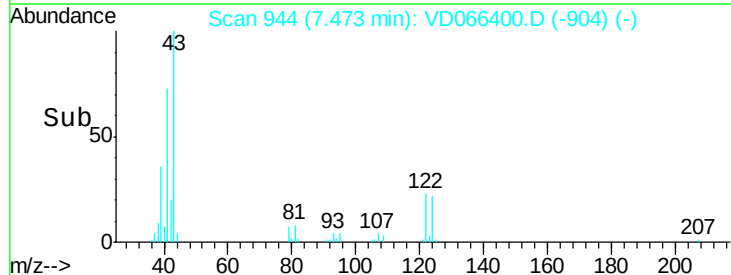
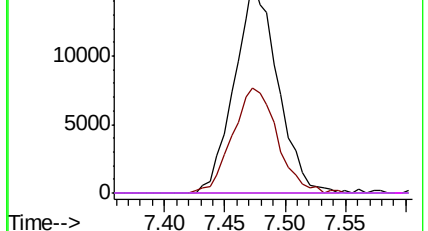


Abundance Ion 41.00 (40.70 to 41.70): VDC

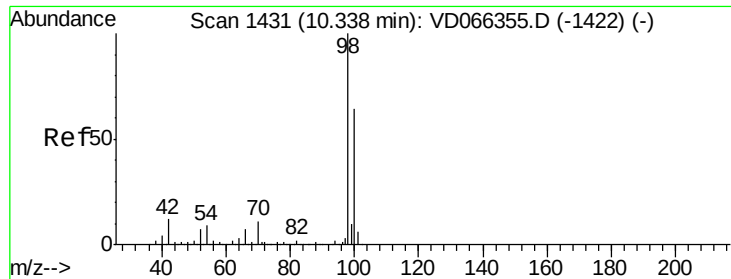
Ion 39.00 (38.70 to 39.70): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



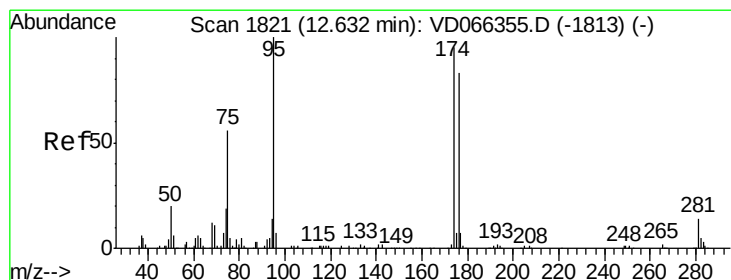
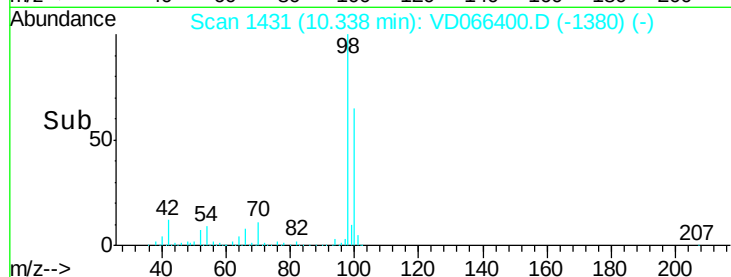
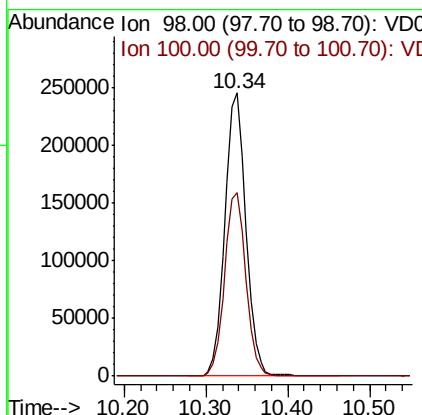
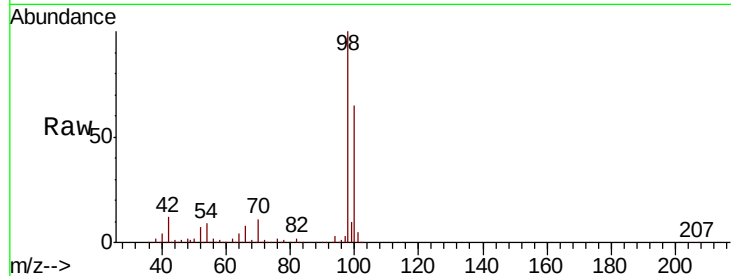




#50  
Toluene-d8  
Concen: 52.402 ug/l  
RT: 10.34 min Scan# 1431  
Delta R.T. -0.00 min  
Lab File: VD066400.D  
Acq: 25 Aug 2020 14:14

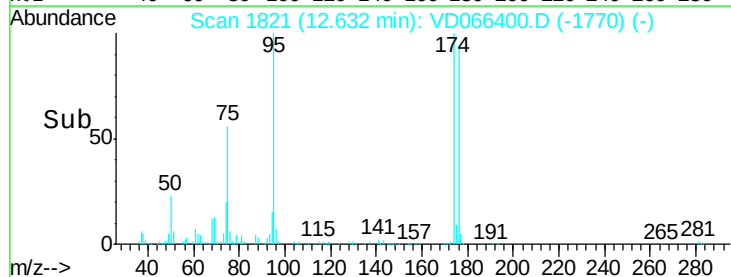
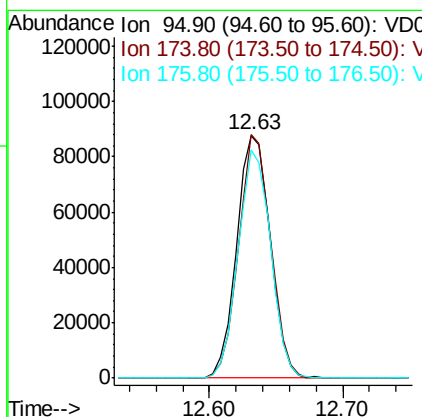
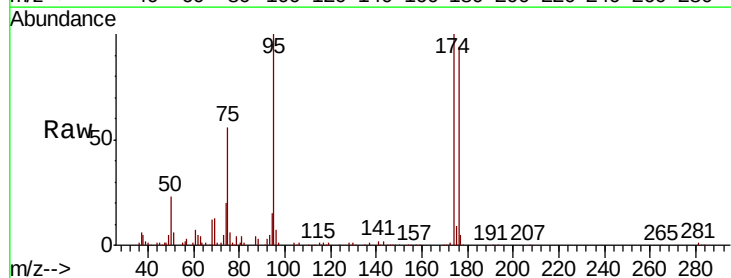
Instrument :  
MSVOA\_D  
ClientSampled :  
CHRT-18

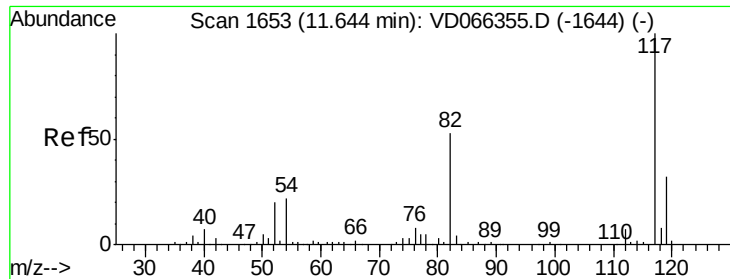
Tot Ion: 98 Resp: 441098  
Ion Ratio Lower Upper  
98 100  
100 65.3 53.0 79.4



#62  
4-Bromofluorobenzene  
Concen: 50.918 ug/l  
RT: 12.63 min Scan# 1821  
Delta R.T. -0.00 min  
Lab File: VD066400.D  
Acq: 25 Aug 2020 14:14

Tgt Ion: 95 Resp: 152088  
Ion Ratio Lower Upper  
95 100  
174 95.7 0.0 183.4  
176 91.2 0.0 173.8

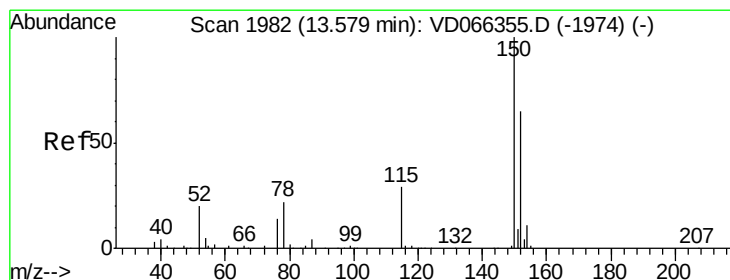
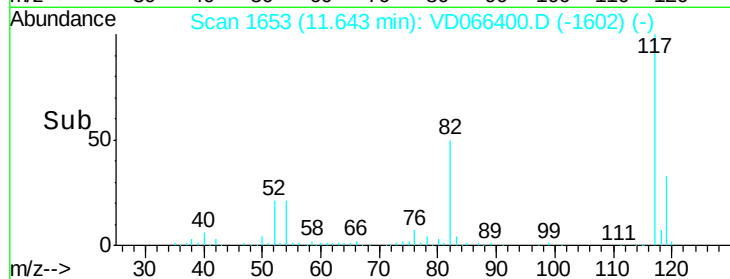
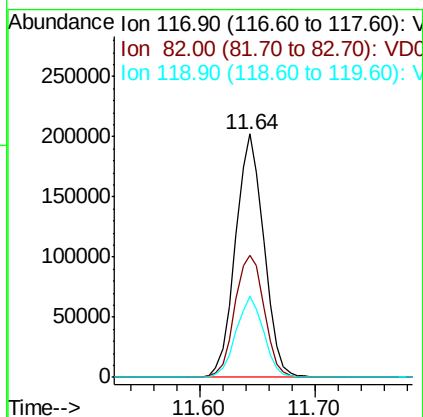
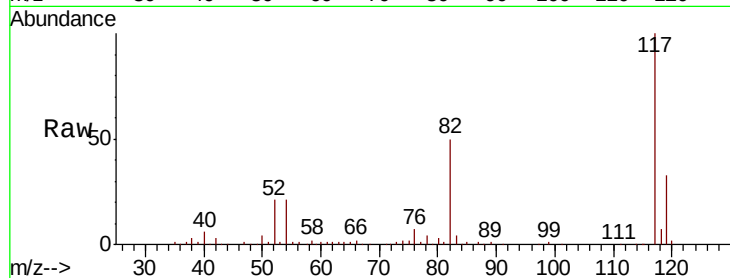




#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 11.64 min Scan# 1653  
 Delta R.T. -0.00 min  
 Lab File: VD066400.D  
 Acq: 25 Aug 2020 14:14

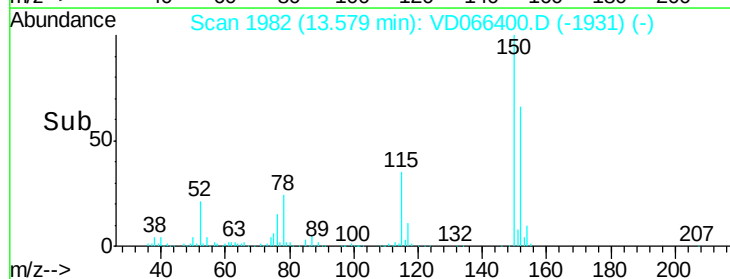
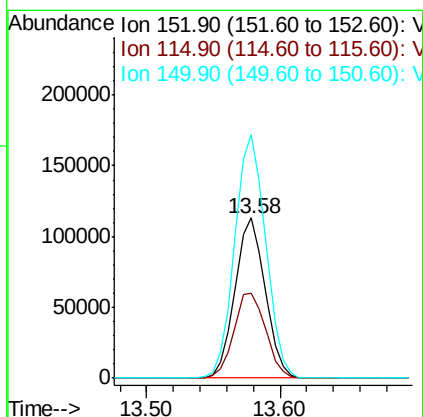
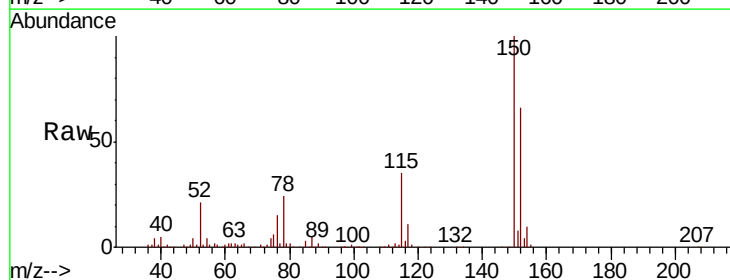
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 CHRT-18

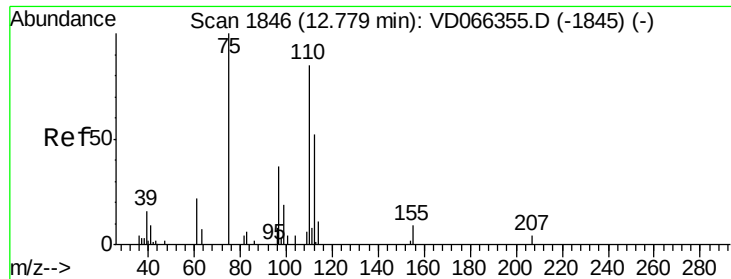
Tot Ion:117 Resp: 344463  
 Ion Ratio Lower Upper  
 117 100  
 82 50.3 42.8 64.2  
 119 33.1 25.8 38.8



#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.58 min Scan# 1982  
 Delta R.T. -0.00 min  
 Lab File: VD066400.D  
 Acq: 25 Aug 2020 14:14

Tgt Ion:152 Resp: 178033  
 Ion Ratio Lower Upper  
 152 100  
 115 56.2 28.3 85.0  
 150 155.7 0.0 343.2

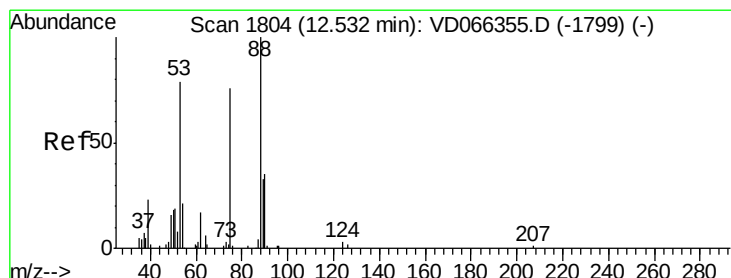
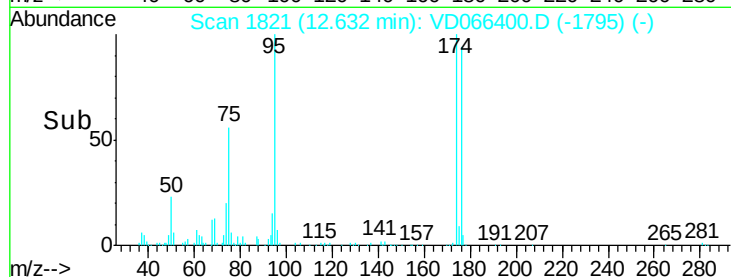
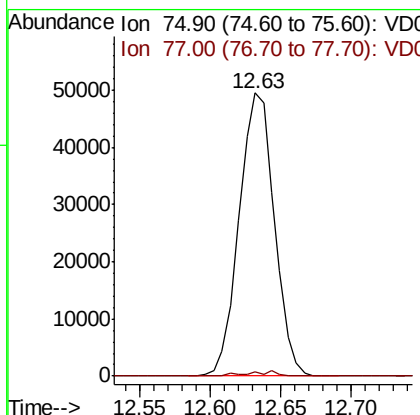
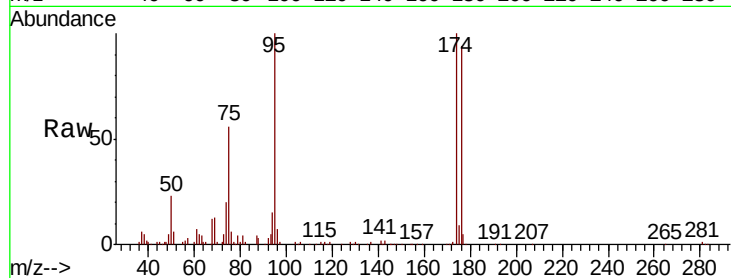




#76  
 1,2,3-Trichloropropane  
 Concen: 69.129 ug/l  
 RT: 12.63 min Scan# 1821  
 Delta R.T. -0.15 min  
 Lab File: VD066400.D  
 Acq: 25 Aug 2020 14:14

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 CHRT-18

Tot Ion: 75 Resp: 86582  
 Ion Ratio Lower Upper  
 75 100  
 77 1.4 182.9 548.9#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 146.738 ug/l  
 RT: 12.63 min Scan# 1821  
 Delta R.T. 0.10 min  
 Lab File: VD066400.D  
 Acq: 25 Aug 2020 14:14

Tgt Ion: 75 Resp: 86582  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 87.4 131.2#  
 89 0.0 39.4 59.0#

