

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD073019\  
 Data File : VD063261.D  
 Acq On : 31 Jul 2019 2:27  
 Operator : VA/AP  
 Sample : K4049-11RE  
 Misc : 3.97g/5ml/MSVOA D/SOIL  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SP-11RE

Quant Time: Jul 31 06:51:54 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D072919S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 30 03:04:50 2019  
 Response via : Initial Calibration

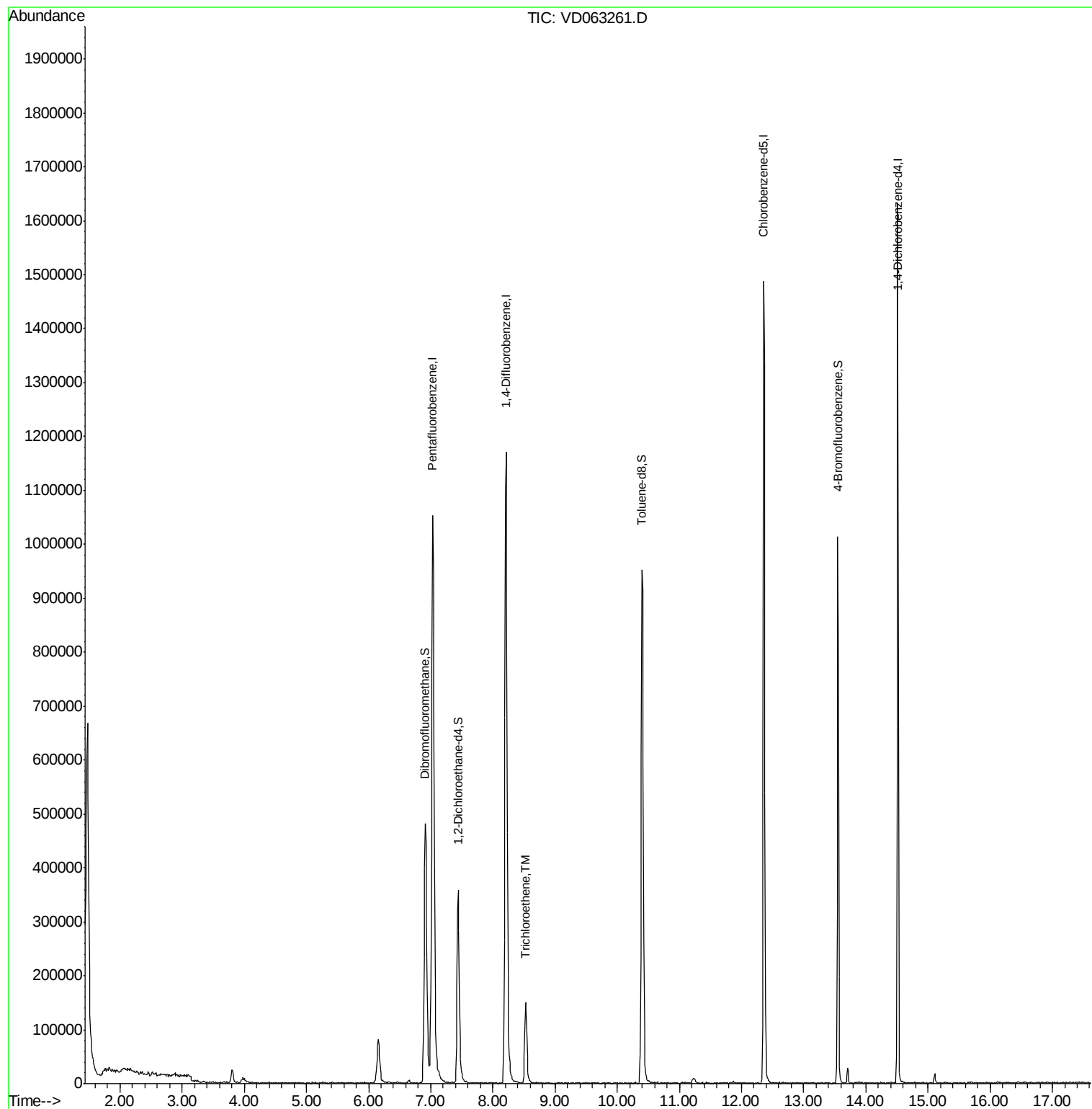
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min)  |
|-----------------------------|-------|------|----------|-------|--------|-----------|
| 1) Pentafluorobenzene       | 7.03  | 168  | 1025073  | 50.00 | ug/l   | 0.00      |
| 34) 1,4-Difluorobenzene     | 8.21  | 114  | 1316758  | 50.00 | ug/l   | 0.00      |
| 63) Chlorobenzene-d5        | 12.36 | 117  | 846285   | 50.00 | ug/l   | 0.00      |
| 72) 1,4-Dichlorobenzene-d4  | 14.51 | 152  | 342054   | 50.00 | ug/l   | 0.00      |
| System Monitoring Compounds |       |      |          |       |        |           |
| 33) 1,2-Dichloroethane-d4   | 7.44  | 65   | 389919   | 34.28 | ug/l   | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 68.56% |           |
| 35) Dibromofluoromethane    | 6.91  | 113  | 436066   | 38.79 | ug/l   | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 77.58% |           |
| 50) Toluene-d8              | 10.40 | 98   | 827281   | 32.88 | ug/l   | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 65.76% |           |
| 62) 4-Bromofluorobenzene    | 13.55 | 95   | 274704   | 23.96 | ug/l   | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 47.92% |           |
| Target Compounds            |       |      |          |       |        |           |
| 44) Trichloroethene         | 8.53  | 130  | 69243    | 6.785 | ug/l   | Qvalue 95 |

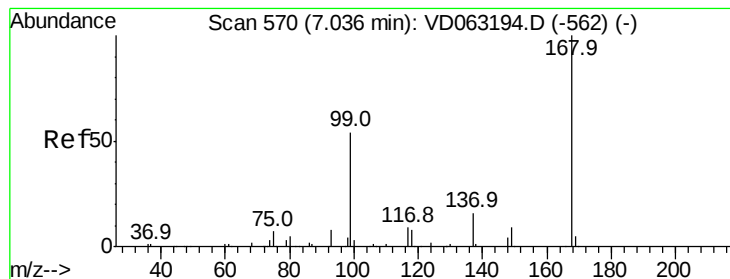
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue Jul 30 03:04:50 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.01 min

Lab File: VD063261.D

Acq: 31 Jul 2019 2:27

Instrument :

MSVOA\_D

ClientSampleId :

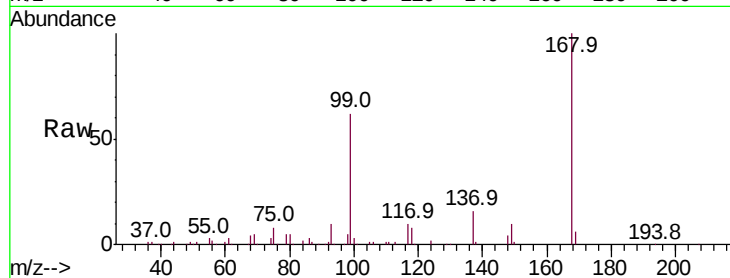
SP-11RE

Tot Ion:168 Resp: 1025073

Ion Ratio Lower Upper

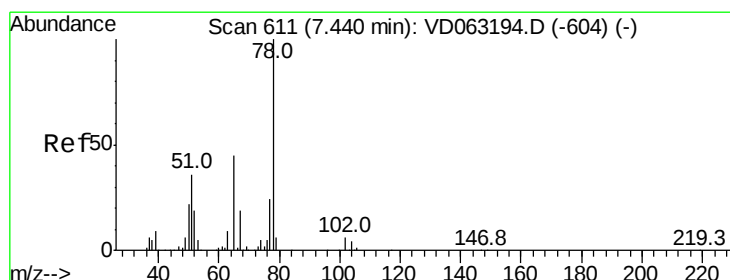
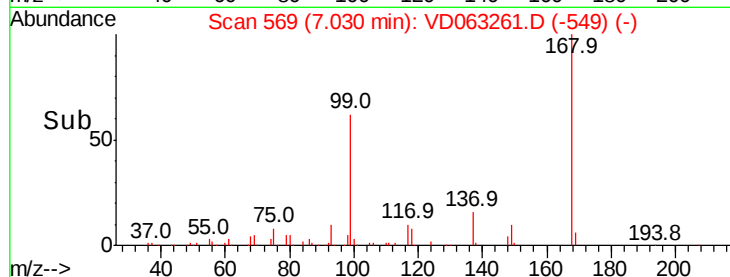
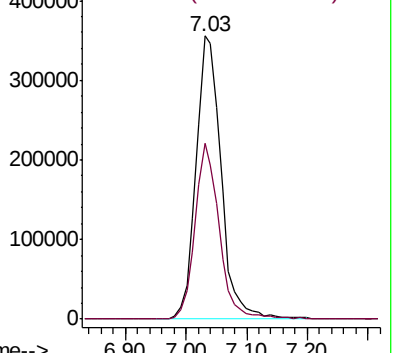
168 100

99 62.1 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#33

1,2-Dichloroethane-d4

Concen: 34.281 ug/l

RT: 7.44 min Scan# 611

Delta R.T. 0.00 min

Lab File: VD063261.D

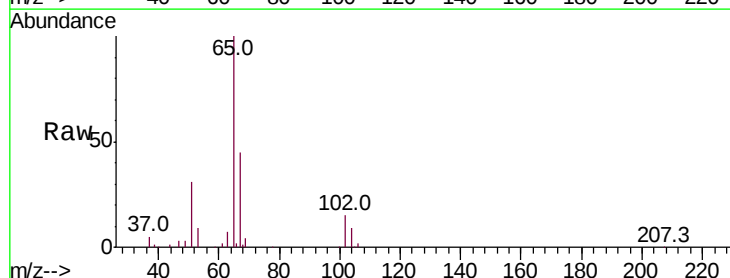
Acq: 31 Jul 2019 2:27

Tgt Ion: 65 Resp: 389919

Ion Ratio Lower Upper

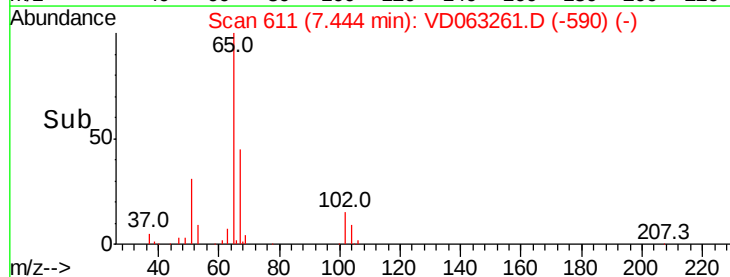
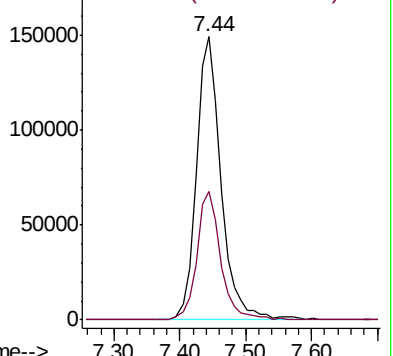
65 100

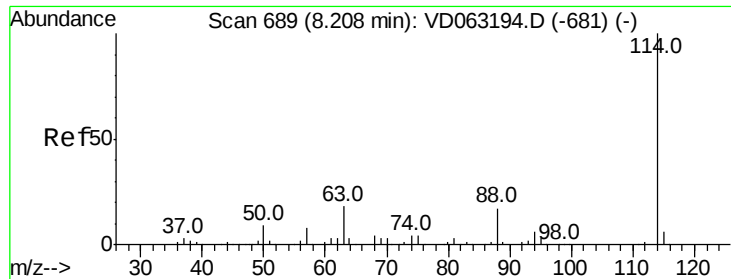
67 45.4 0.0 85.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

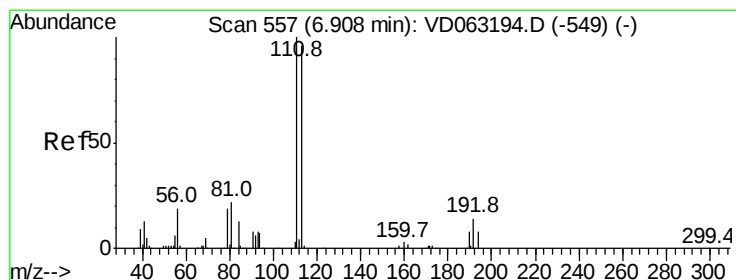
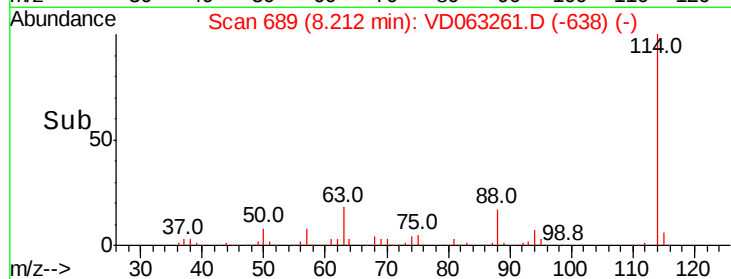
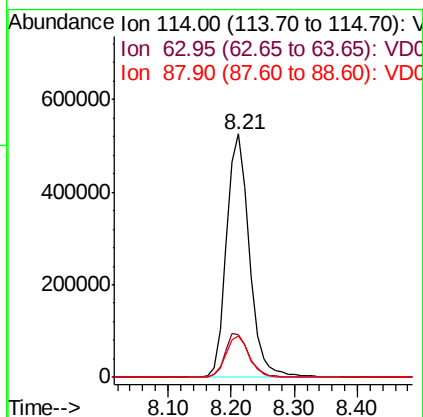
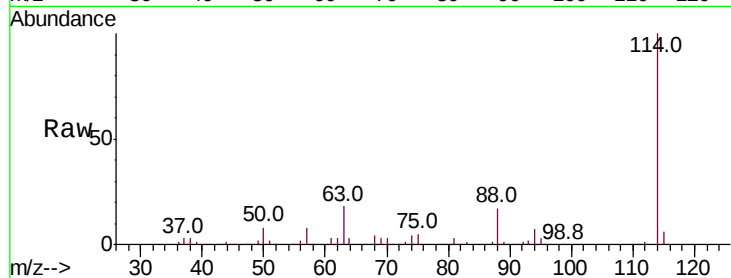




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.21 min Scan# 689  
 Delta R.T. 0.00 min  
 Lab File: VD063261.D  
 Acq: 31 Jul 2019 2:27

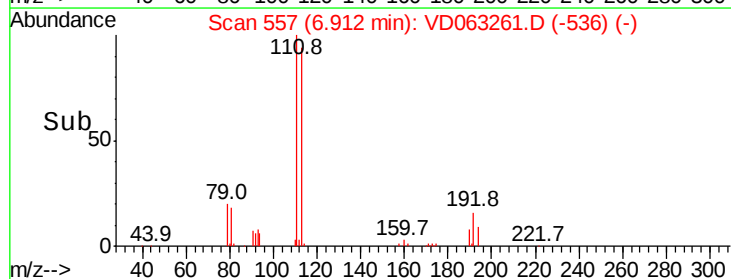
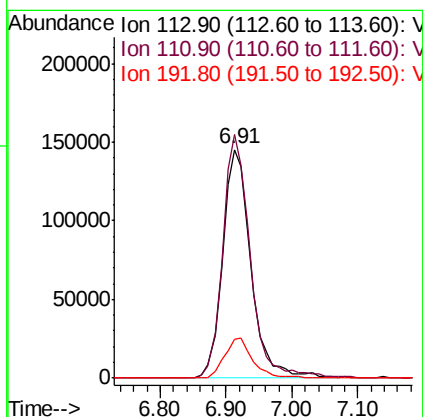
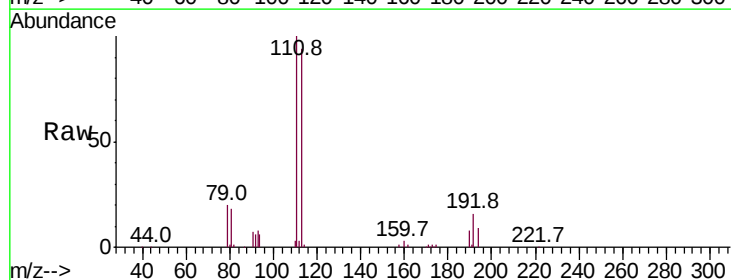
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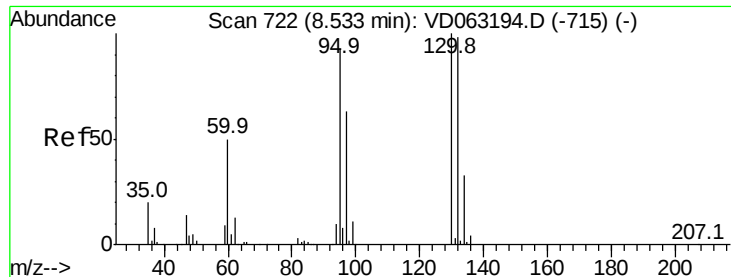
Tot Ion:114 Resp: 1316758  
 Ion Ratio Lower Upper  
 114 100  
 63 17.6 0.0 35.2  
 88 16.7 0.0 34.6



#35  
 Dibromofluoromethane  
 Concen: 38.788 ug/l  
 RT: 6.91 min Scan# 557  
 Delta R.T. 0.00 min  
 Lab File: VD063261.D  
 Acq: 31 Jul 2019 2:27

Tgt Ion:113 Resp: 436066  
 Ion Ratio Lower Upper  
 113 100  
 111 106.5 83.2 124.8  
 192 17.2 11.8 17.8

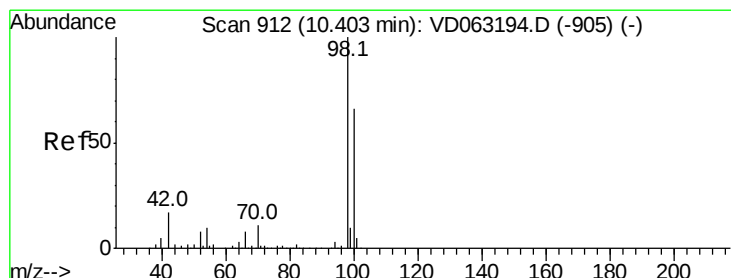
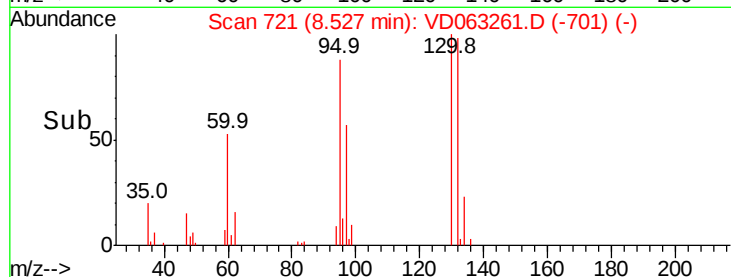
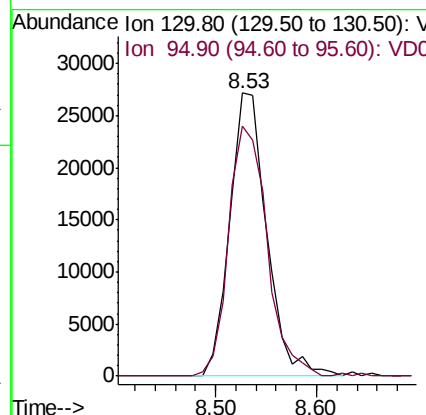
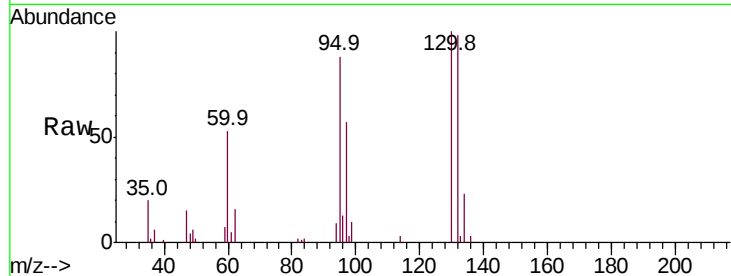




#44  
 Trichloroethene  
 Concen: 6.785 ug/l  
 RT: 8.53 min Scan# 721  
 Delta R.T. -0.01 min  
 Lab File: VD063261.D  
 Acq: 31 Jul 2019 2:27

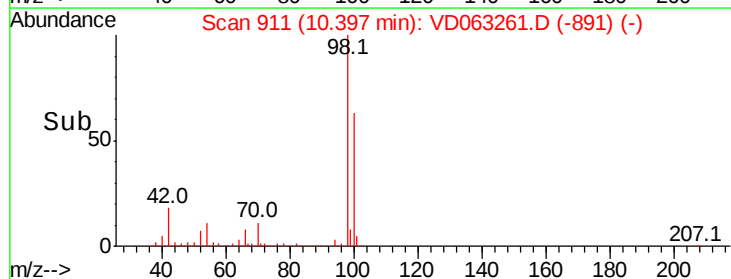
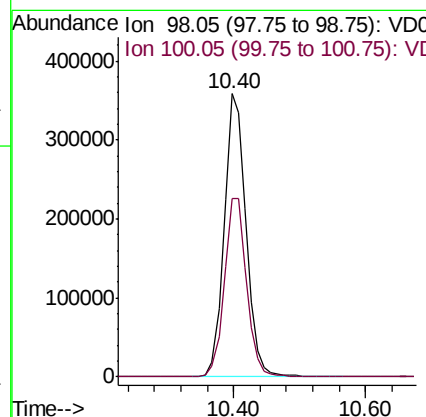
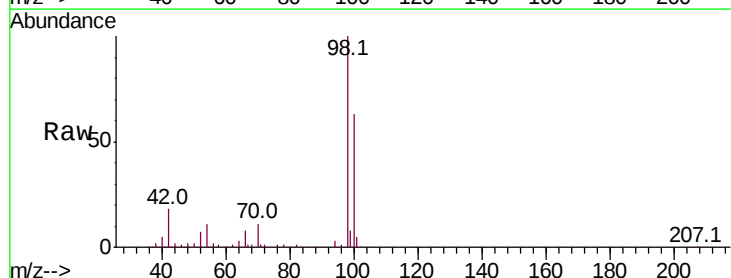
Instrument :  
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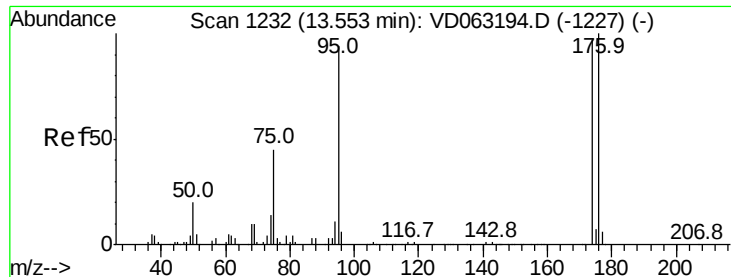
Tot Ion:130 Resp: 69243  
 Ion Ratio Lower Upper  
 130 100  
 95 88.3 0.0 185.4



#50  
 Toluene-d8  
 Concen: 32.881 ug/l  
 RT: 10.40 min Scan# 911  
 Delta R.T. -0.01 min  
 Lab File: VD063261.D  
 Acq: 31 Jul 2019 2:27

Tgt Ion: 98 Resp: 827281  
 Ion Ratio Lower Upper  
 98 100  
 100 63.2 53.2 79.8

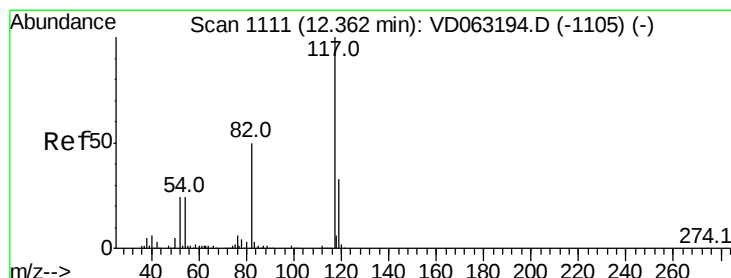
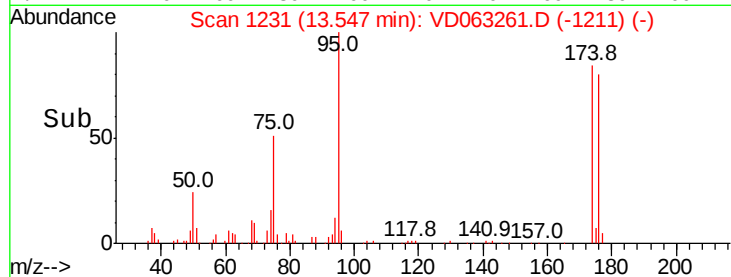
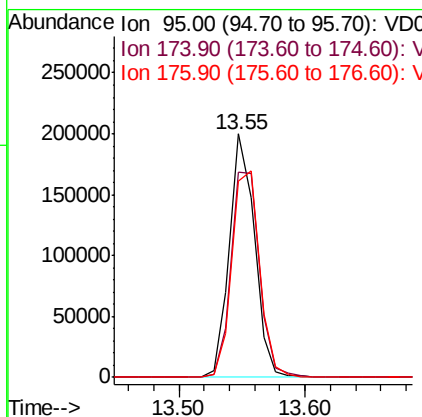
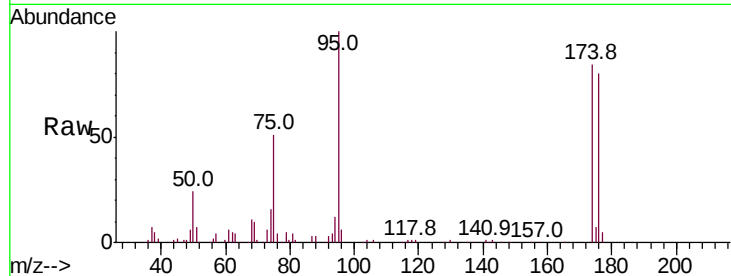




#62  
4-Bromofluorobenzene  
Concen: 23.959 ug/l  
RT: 13.55 min Scan# 1231  
Delta R.T. -0.01 min  
Lab File: VD063261.D  
Acq: 31 Jul 2019 2:27

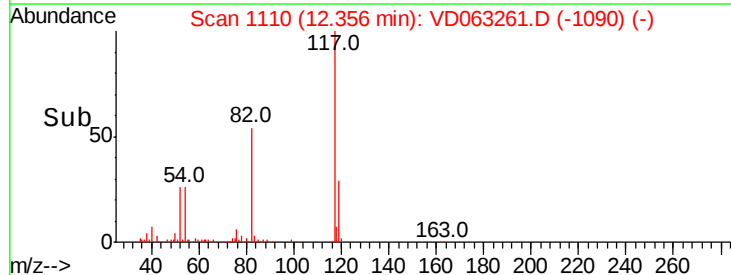
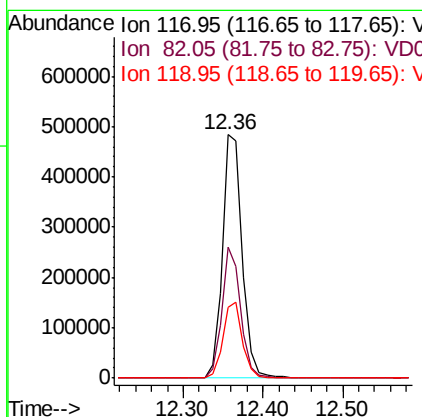
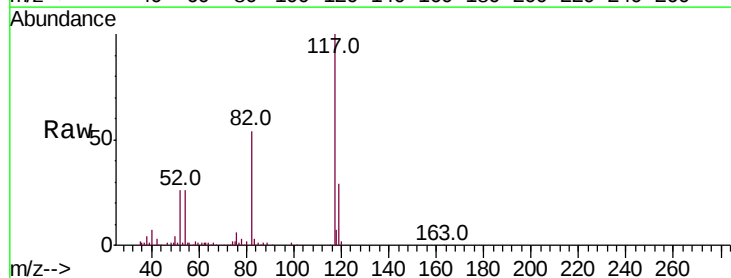
Instrument :  
MSVOA\_D  
ClientSampleId :  
SP-11RE

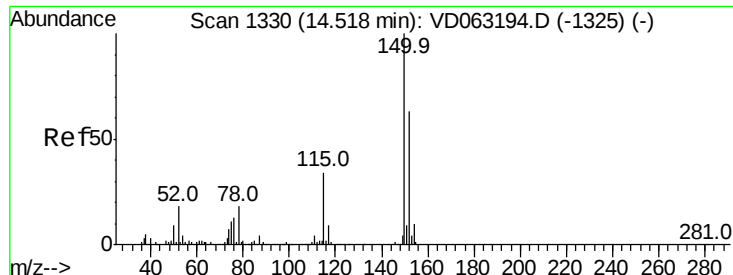
Tot Ion: 95 Resp: 274704  
Ion Ratio Lower Upper  
95 100  
174 84.4 0.0 205.4  
176 80.4 0.0 211.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.36 min Scan# 1110  
Delta R.T. -0.01 min  
Lab File: VD063261.D  
Acq: 31 Jul 2019 2:27

Tgt Ion: 117 Resp: 846285  
Ion Ratio Lower Upper  
117 100  
82 53.6 40.1 60.1  
119 29.3 26.5 39.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.51 min Scan# 1329

Delta R.T. -0.01 min

Lab File: VD063261.D

Acq: 31 Jul 2019 2:27

Instrument :

MSVOA\_D

ClientSampleId :

SP-11RE

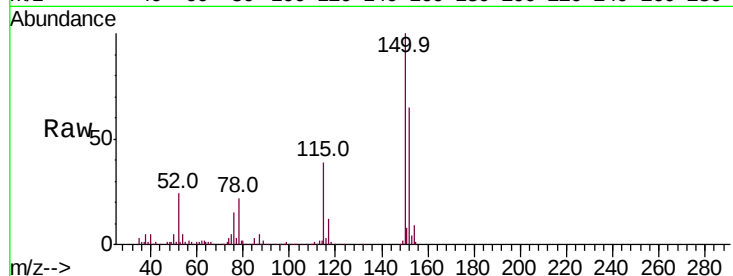
Tot Ion:152 Resp: 342054

Ion Ratio Lower Upper

152 100

115 59.5 27.5 82.4

150 153.6 0.0 320.6



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

