

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012720\
 Data File : VD064970.D
 Acq On : 27 Jan 2020 18:20
 Operator : VA/SY
 Sample : L1242-14RE
 Misc : 5.06G/5.00ml/MSVOA D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jan 27 22:31:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012320S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 23 13:45:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	448056	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	721521	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	662209	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	295535	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.34	65	198746	46.24	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	92.48%	
35) Dibromofluoromethane	7.92	113	72286	15.94	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	31.88%	
50) Toluene-d8	10.34	98	862424	49.28	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.56%	
62) 4-Bromofluorobenzene	12.64	95	274750	51.30	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	102.60%	

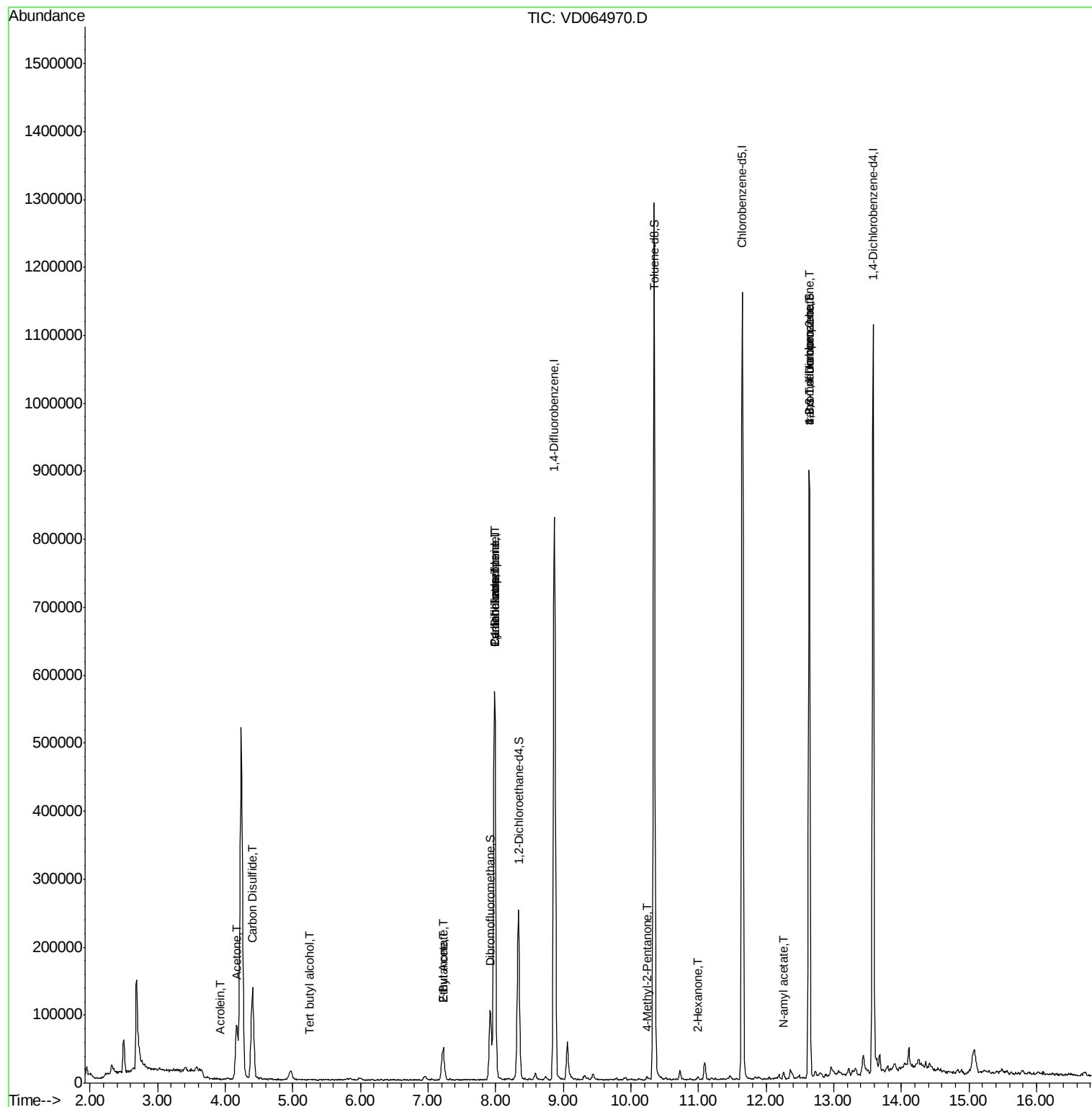
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.26	59	566	2.383	ug/l	95
13) Acrolein	3.93	56	348	1.169	ug/l #	30
16) Acetone	4.17	43	149793	142.246	ug/l	93
17) Carbon Disulfide	4.40	76	284040	22.128	ug/l	99
20) Methylene Chloride	4.96	84	10596	Below Cal		92
25) 2-Butanone	7.23	43	36629	31.546	ug/l #	84
31) Cyclohexane	7.98	56	10349	1.382	ug/l #	25
36) 1,1-Dichloropropene	7.98	75	32694	4.699	ug/l #	50
37) Ethyl Acetate	7.23	43	36629	12.746	ug/l #	75
38) Carbon Tetrachloride	7.98	117	42843	5.826	ug/l #	18
51) 4-Methyl-2-Pentanone	10.23	43	3548	1.299	ug/l	91
59) 2-Hexanone	11.00	43	2807	1.490	ug/l	94
74) N-amyl acetate	12.26	43	6270	1.387	ug/l #	56
76) 1,2,3-Trichloropropane	12.64	75	144614	58.955	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	144614	125.882	ug/l #	10

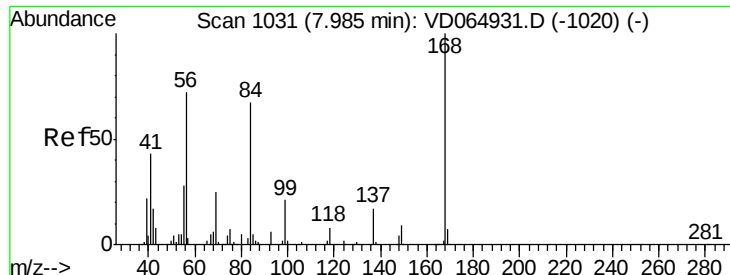
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Jan 23 13:45:59 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD064970.D

Acq: 27 Jan 2020 18:20

Instrument :

MSVOA_D

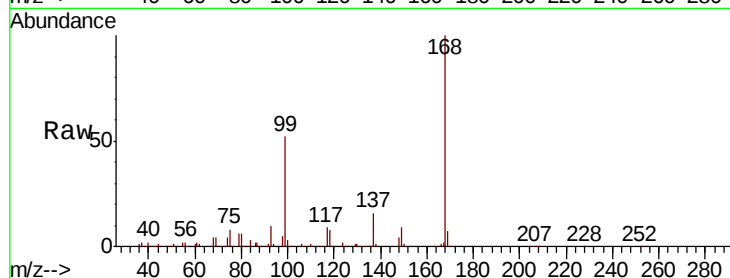
ClientSampleId :

Tot Ion:168 Resp: 448056

Ion Ratio Lower Upper

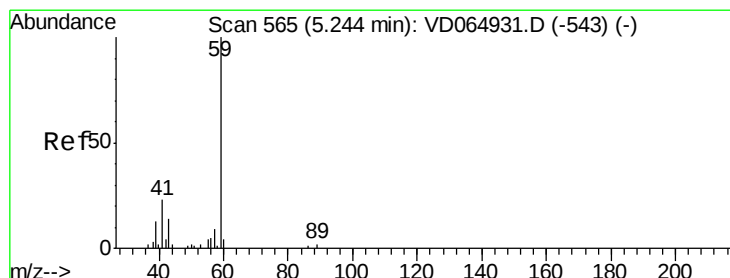
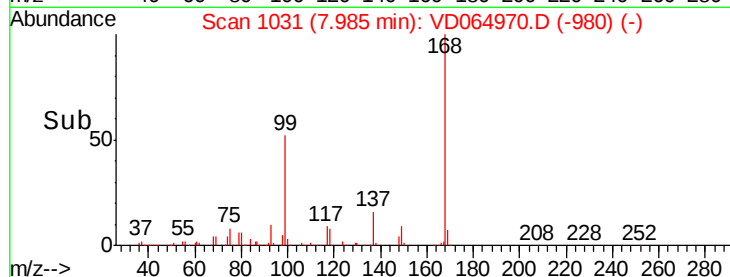
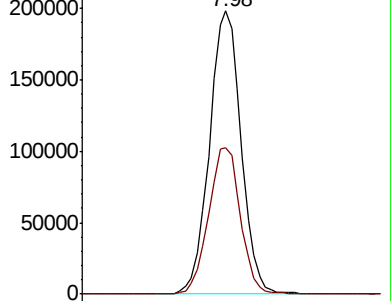
168 100

99 51.9 43.3 64.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#11

Tert butyl alcohol

Concen: 2.383 ug/l

RT: 5.26 min Scan# 567

Delta R.T. 0.01 min

Lab File: VD064970.D

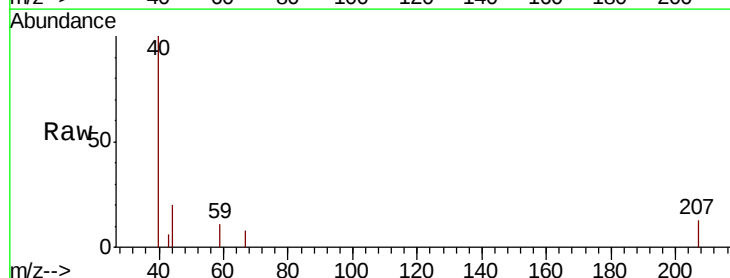
Acq: 27 Jan 2020 18:20

Tgt Ion: 59 Resp: 566

Ion Ratio Lower Upper

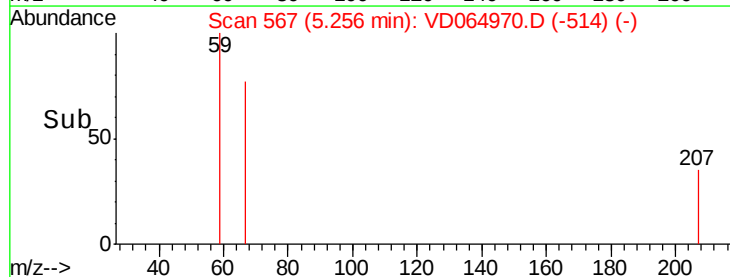
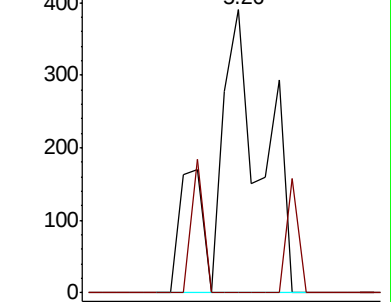
59 100

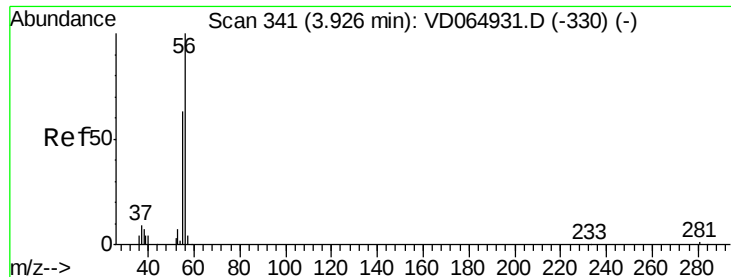
57 11.5 7.7 11.5



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#13

Acrolein

Concen: 1.169 ug/l

RT: 3.93 min Scan# 342

Delta R.T. 0.01 min

Lab File: VD064970.D

Acq: 27 Jan 2020 18:20

Instrument :

MSVOA_D

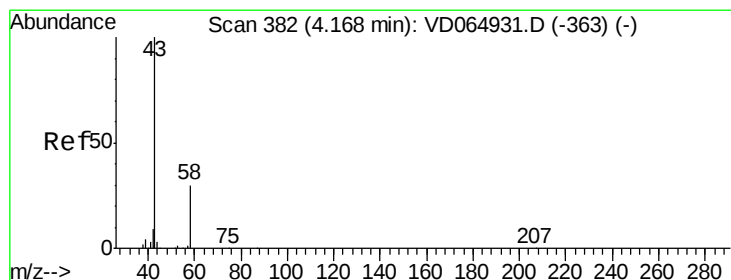
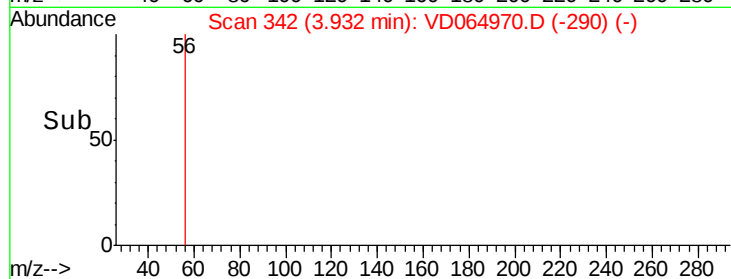
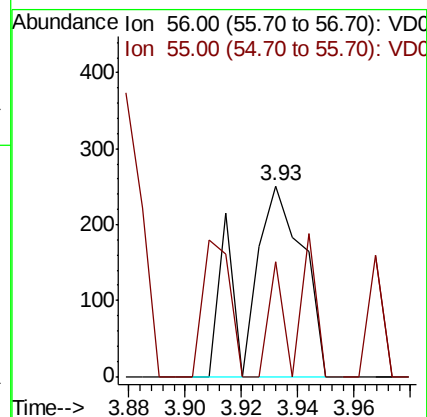
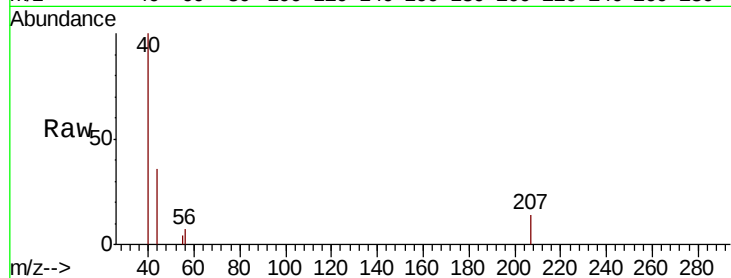
ClientSampled :

Tot Ion: 56 Resp: 348

Ion Ratio Lower Upper

56 100

55 15.2 59.7 89.5#



#16

Acetone

Concen: 142.246 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.00 min

Lab File: VD064970.D

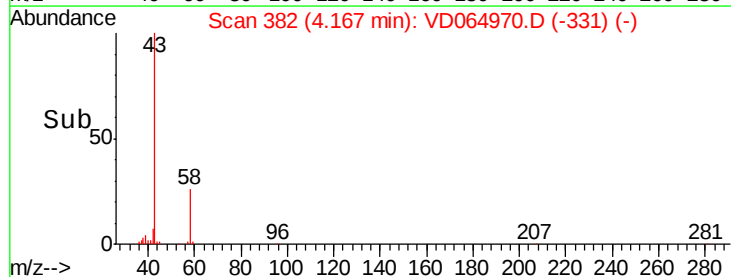
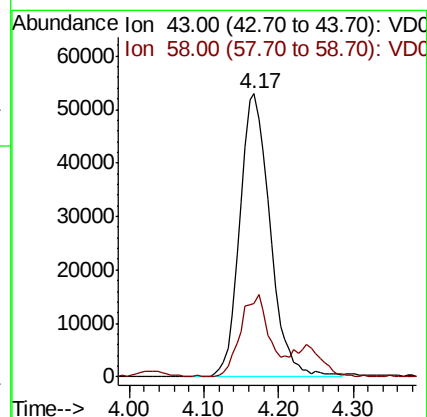
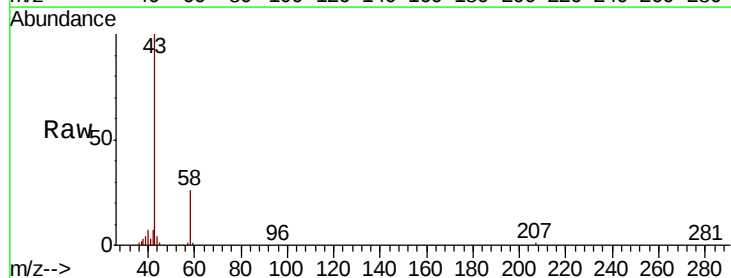
Acq: 27 Jan 2020 18:20

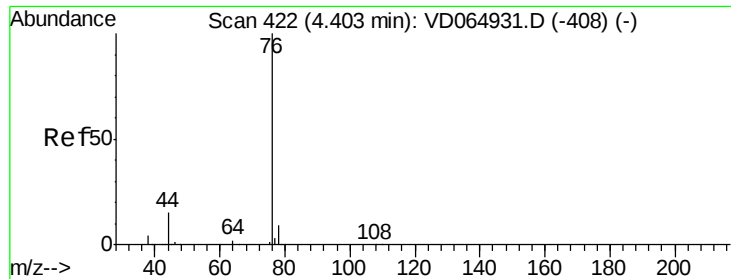
Tgt Ion: 43 Resp: 149793

Ion Ratio Lower Upper

43 100

58 26.2 23.8 35.8

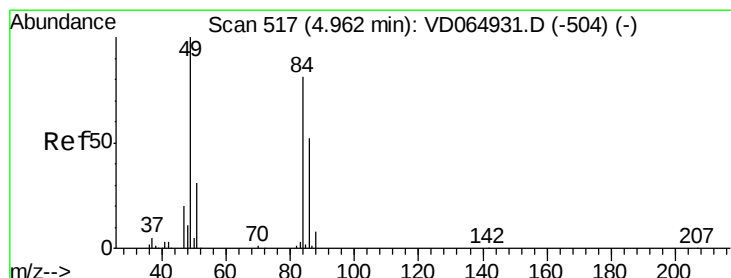
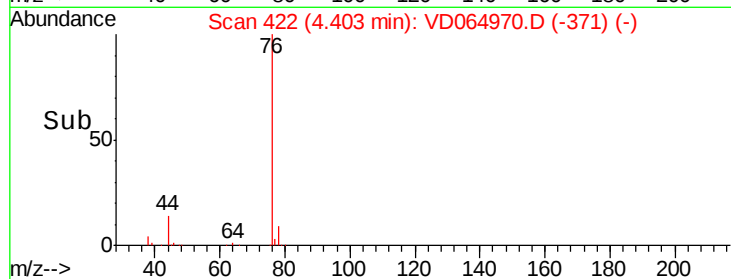
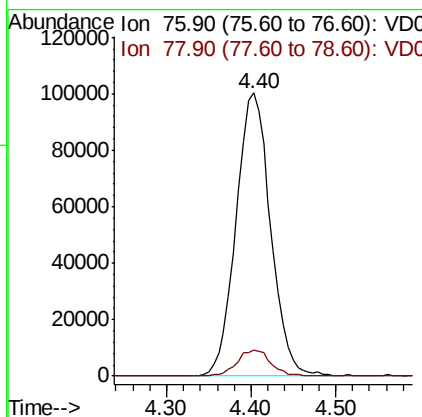
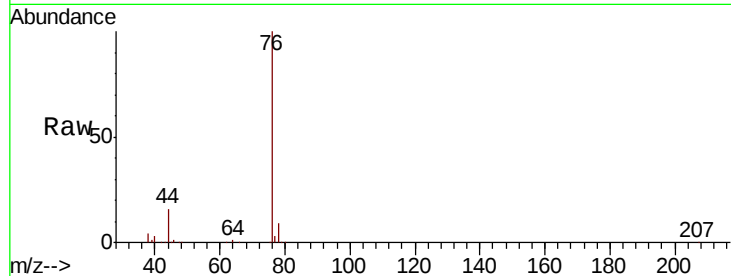




#17
Carbon Disulfide
Concen: 22.128 ug/l
RT: 4.40 min Scan# 422
Delta R.T. -0.00 min
Lab File: VD064970.D
Acq: 27 Jan 2020 18:20

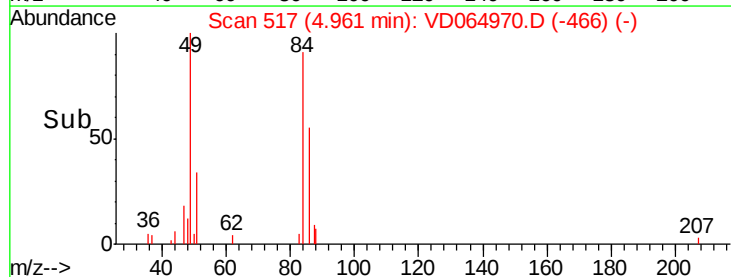
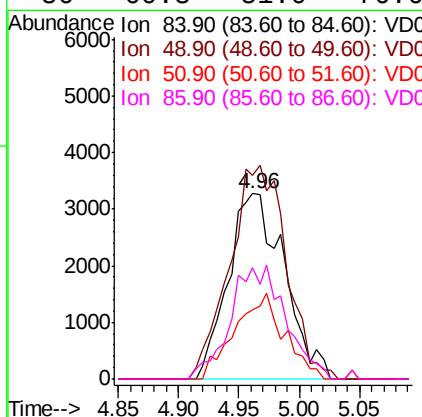
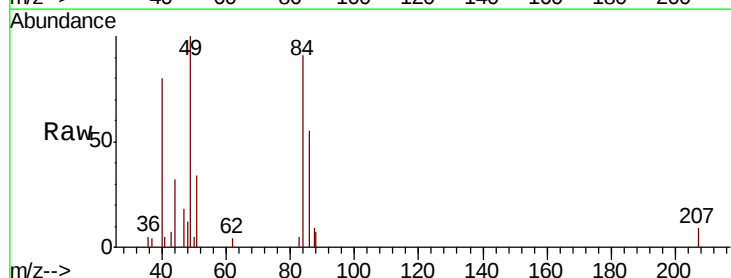
Instrument :
MSVOA_D
ClientSampled :

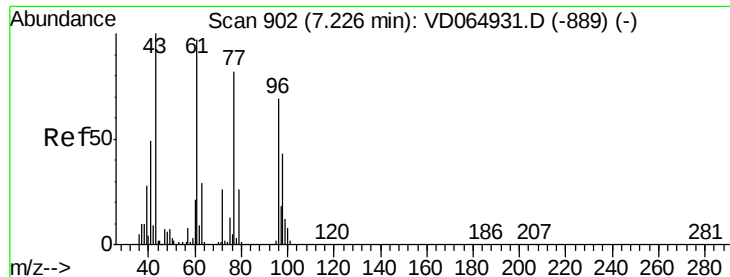
Tot Ion: 76 Resp: 284040
Ion Ratio Lower Upper
76 100
78 9.2 7.1 10.7



#20
Methylene Chloride
Concen: Below Cal
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD064970.D
Acq: 27 Jan 2020 18:20

Tgt Ion: 84 Resp: 10596
Ion Ratio Lower Upper
84 100
49 109.9 98.4 147.6
51 37.1 30.8 46.2
86 60.3 51.0 76.6





#25

2-Butanone

Concen: 31.546 ug/l

RT: 7.23 min Scan# 902

Delta R.T. -0.00 min

Lab File: VD064970.D

Acq: 27 Jan 2020 18:20

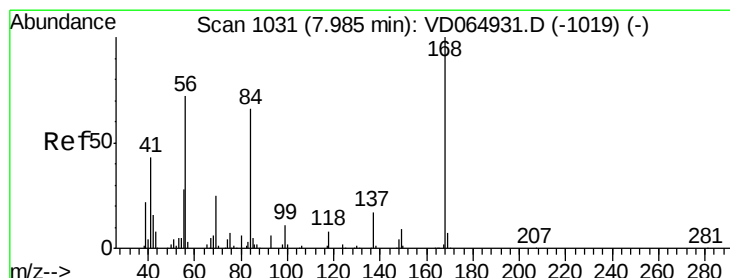
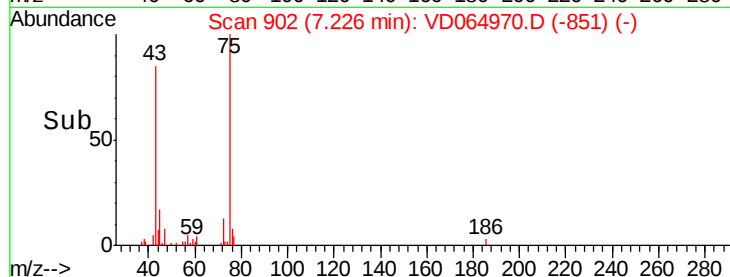
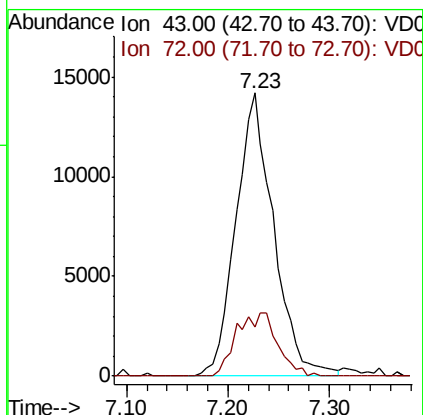
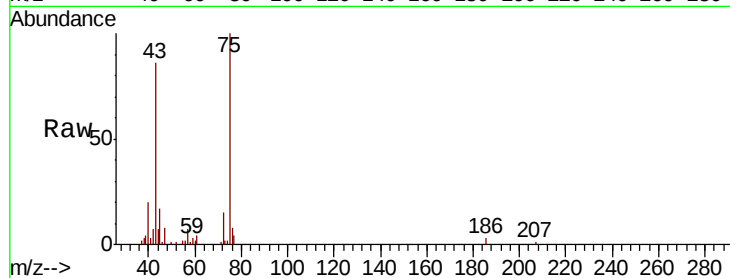
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 36629

Ion Ratio Lower Upper

43 100

72 17.4 20.6 31.0#



#31

Cyclohexane

Concen: 1.382 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064970.D

Acq: 27 Jan 2020 18:20

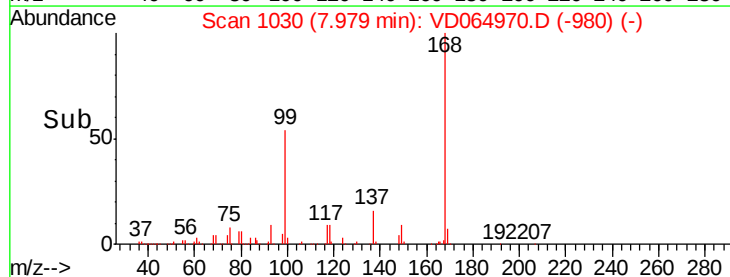
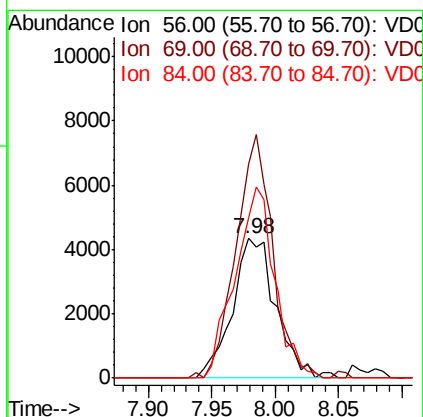
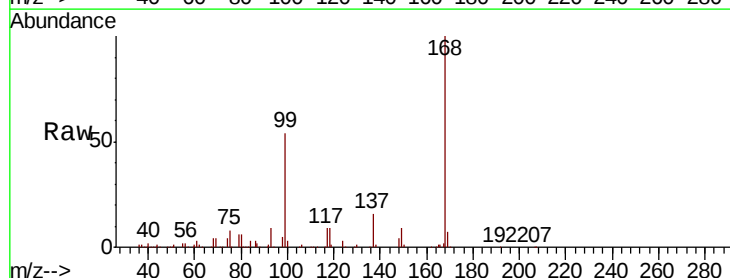
Tgt Ion: 56 Resp: 10349

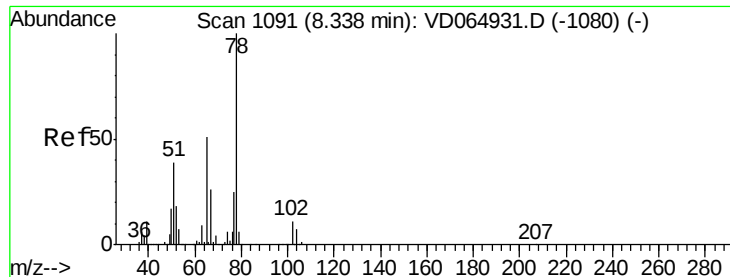
Ion Ratio Lower Upper

56 100

69 153.8 27.9 41.9#

84 115.3 72.8 109.2#





#33

1,2-Dichloroethane-d4

Concen: 46.243 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. -0.00 min

Lab File: VD064970.D

Acq: 27 Jan 2020 18:20

Instrument :

MSVOA_D

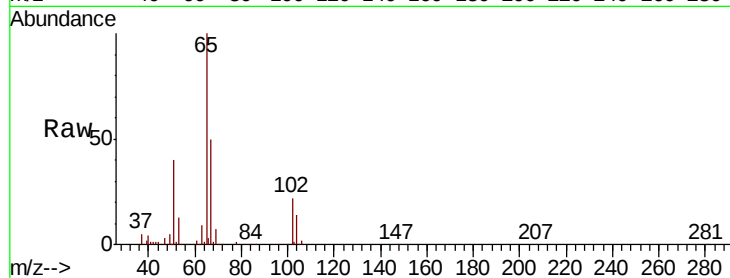
ClientSampleId :

Tot Ion: 65 Resp: 198746

Ion Ratio Lower Upper

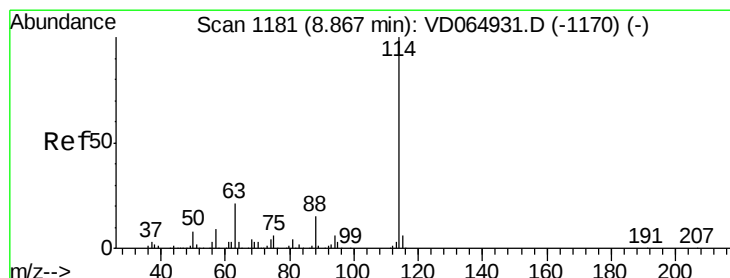
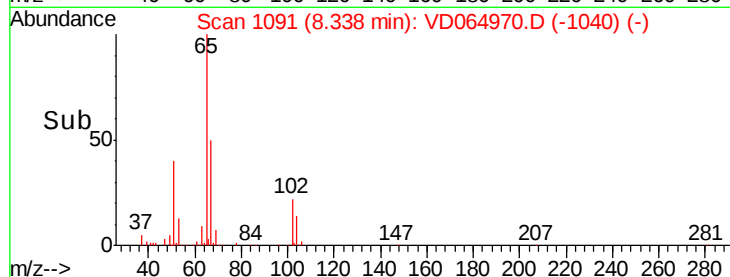
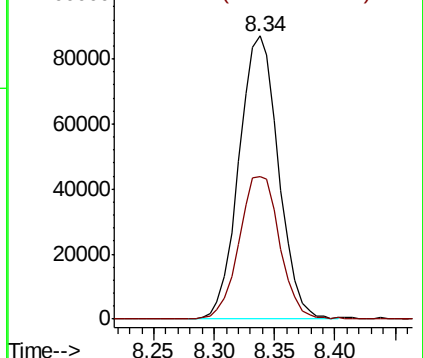
65 100

67 52.1 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VD064970.D

Acq: 27 Jan 2020 18:20

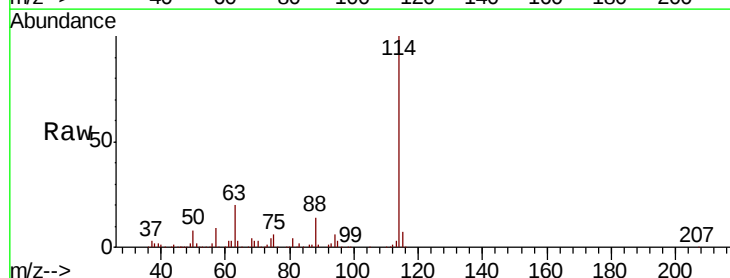
Tgt Ion: 114 Resp: 721521

Ion Ratio Lower Upper

114 100

63 20.1 0.0 42.0

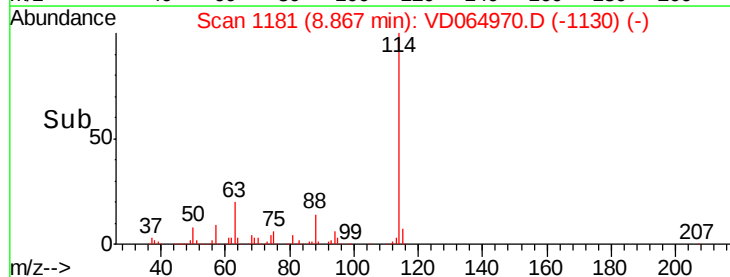
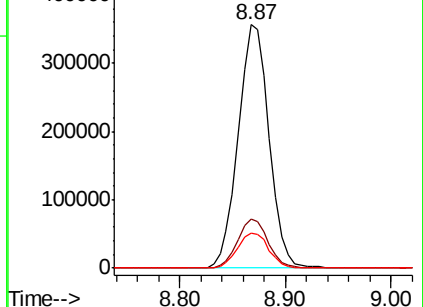
88 14.4 0.0 29.4

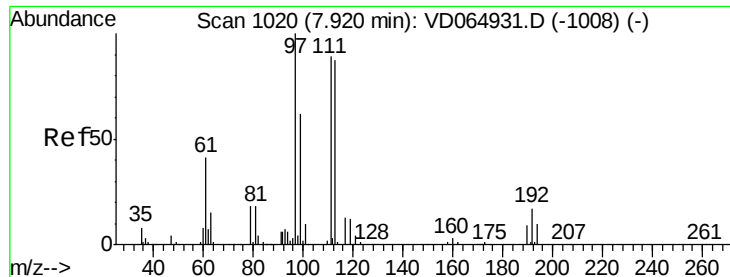


Abundance Ion 113.90 (113.60 to 114.60): VDC

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

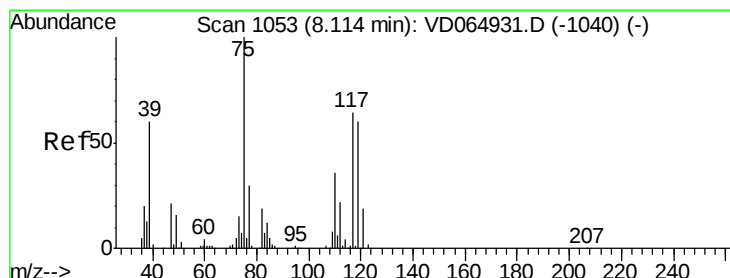
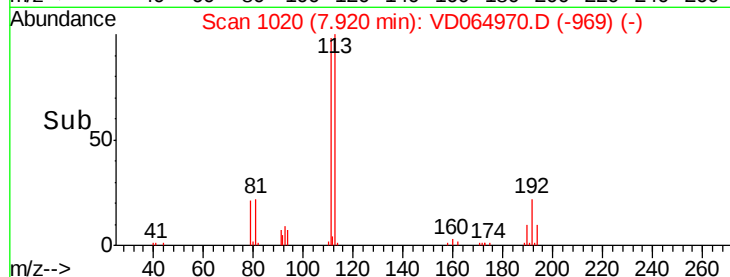
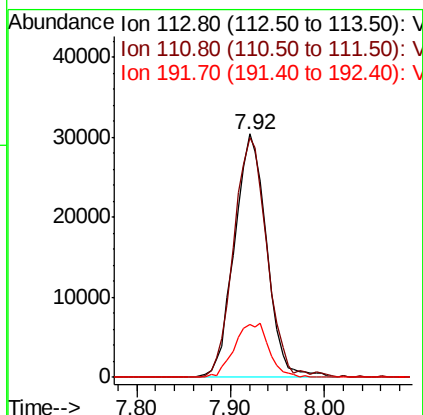
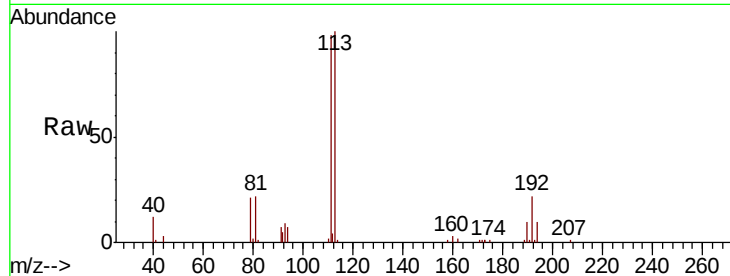




#35
 Dibromofluoromethane
 Concen: 15.943 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. -0.00 min
 Lab File: VD064970.D
 Acq: 27 Jan 2020 18:20

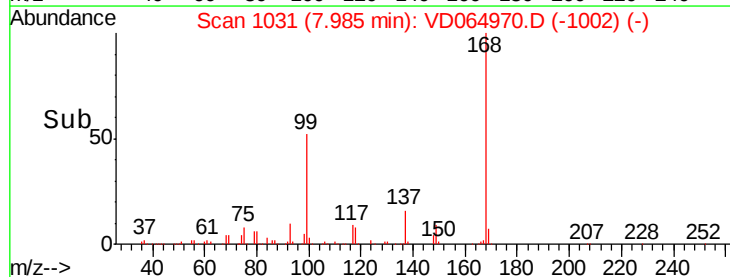
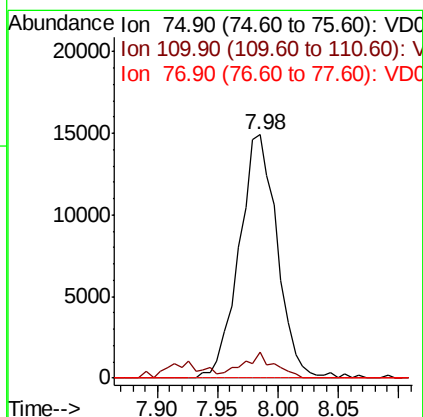
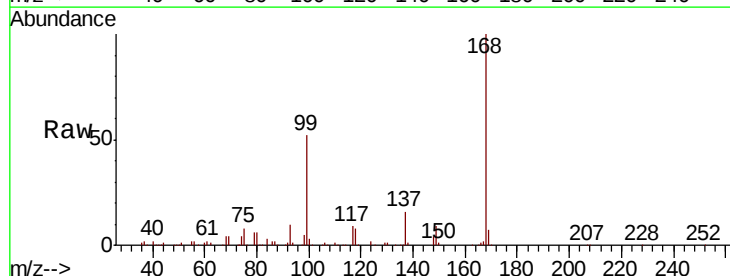
Instrument :
 MSVOA_D
 ClientSampled :

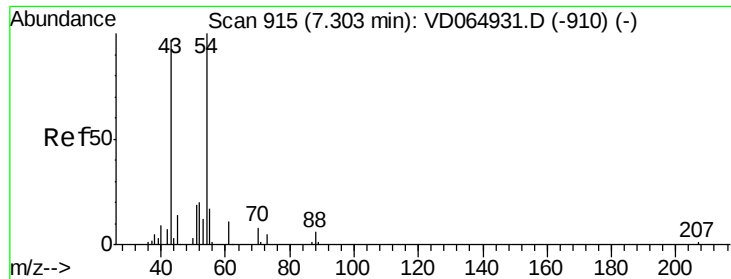
Tot Ion:113 Resp: 72286
 Ion Ratio Lower Upper
 113 100
 111 101.9 82.4 123.6
 192 23.6 16.9 25.3



#36
 1,1-Dichloropropene
 Concen: 4.699 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD064970.D
 Acq: 27 Jan 2020 18:20

Tgt Ion: 75 Resp: 32694
 Ion Ratio Lower Upper
 75 100
 110 8.9 17.3 52.0#
 77 0.0 24.7 37.1#

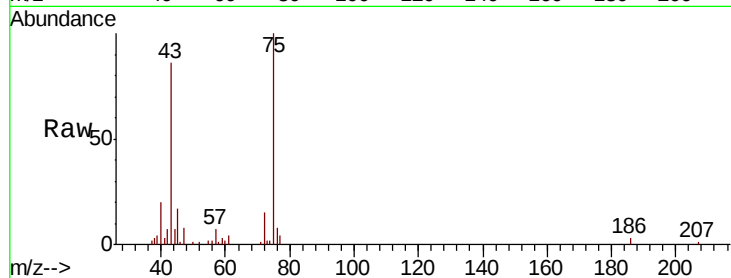




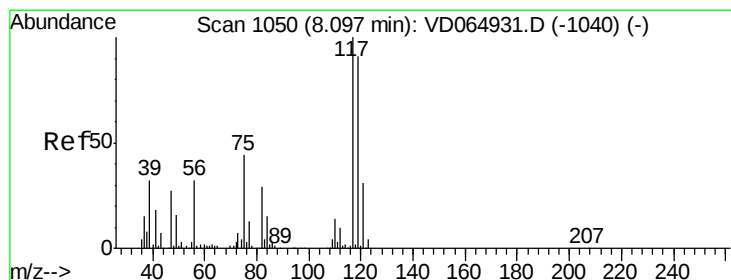
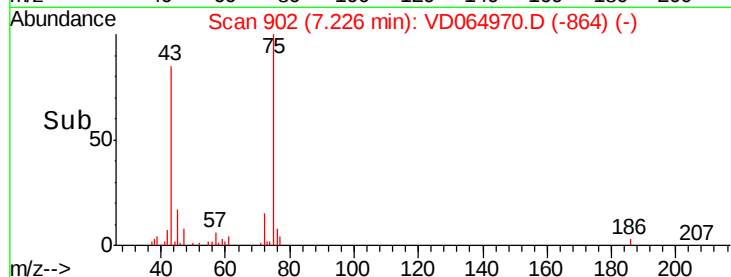
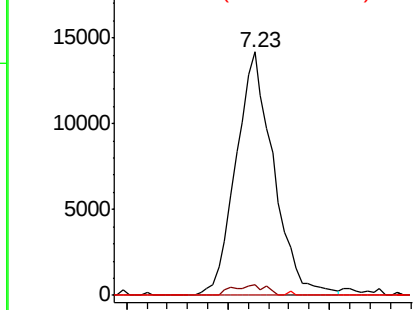
#37
Ethyl Acetate
Concen: 12.746 ug/l
RT: 7.23 min Scan# 902
Delta R.T. -0.08 min
Lab File: VD064970.D
Acq: 27 Jan 2020 18:20

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 36629
Ion Ratio Lower Upper
43 100
61 3.7 11.0 16.4#
70 0.0 7.5 11.3#

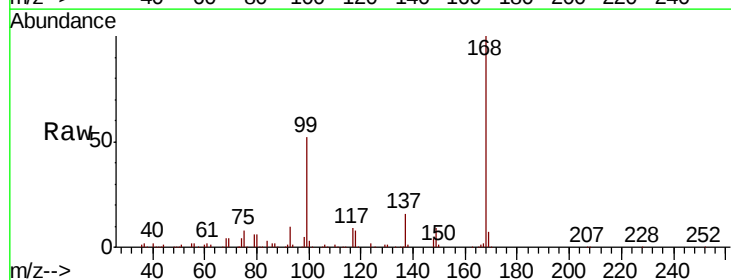


Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 70.00 (69.70 to 70.70): VDC

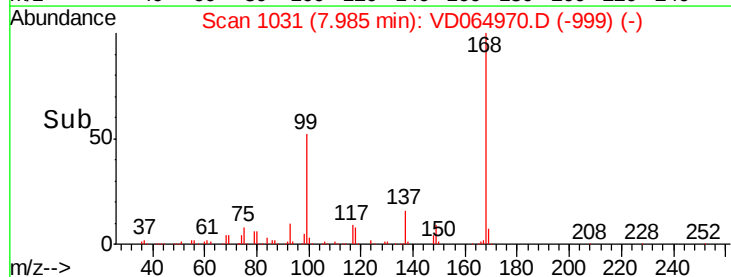
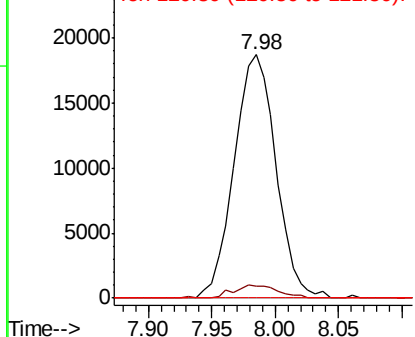


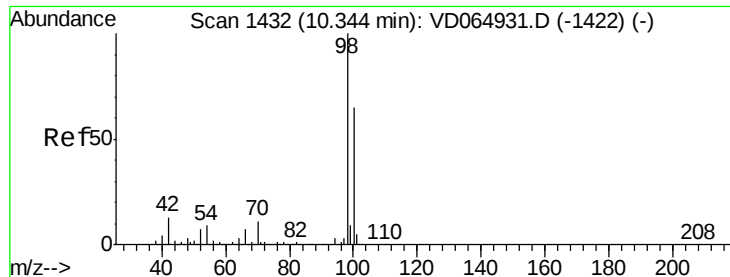
#38
Carbon Tetrachloride
Concen: 5.826 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.11 min
Lab File: VD064970.D
Acq: 27 Jan 2020 18:20

Tgt Ion: 117 Resp: 42843
Ion Ratio Lower Upper
117 100
119 5.1 73.2 109.8#
121 0.0 24.4 36.6#



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





#50

Toluene-d8

Concen: 49.281 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VD064970.D

Acq: 27 Jan 2020 18:20

Instrument :

MSVOA_D

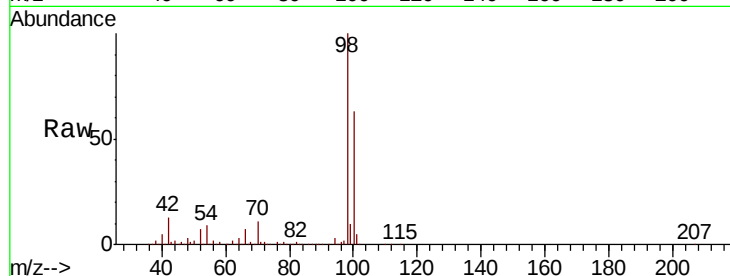
ClientSampleId :

Tot Ion: 98 Resp: 862424

Ion Ratio Lower Upper

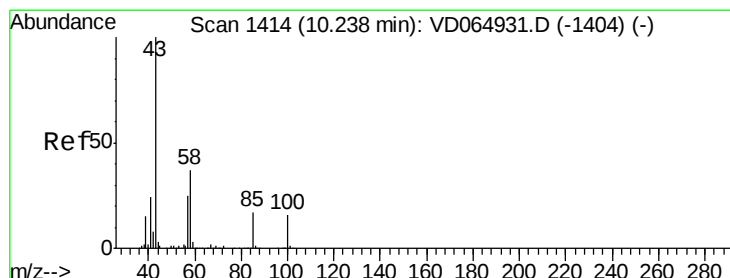
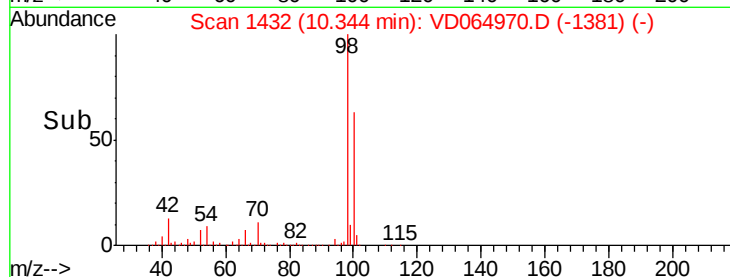
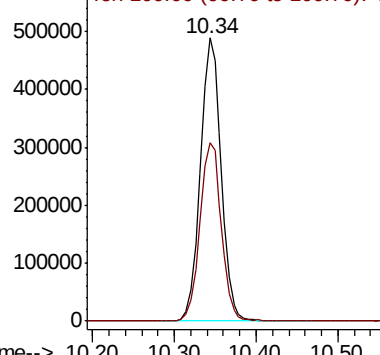
98 100

100 64.9 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#51

4-Methyl-2-Pentanone

Concen: 1.299 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. -0.01 min

Lab File: VD064970.D

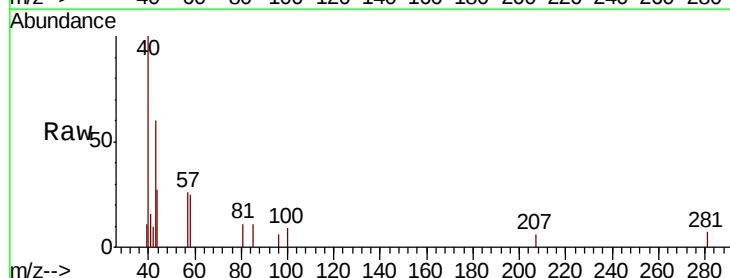
Acq: 27 Jan 2020 18:20

Tgt Ion: 43 Resp: 3548

Ion Ratio Lower Upper

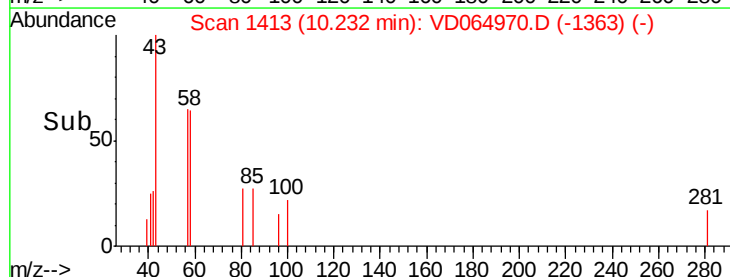
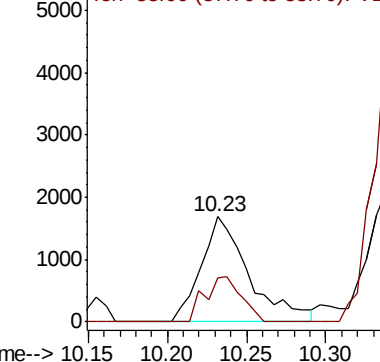
43 100

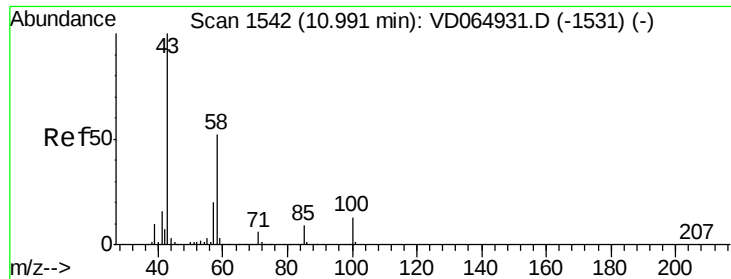
58 32.7 30.4 45.6



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

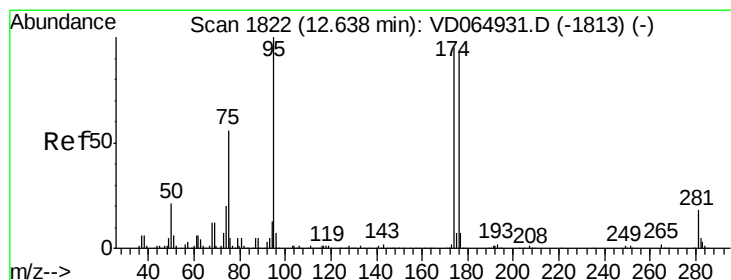
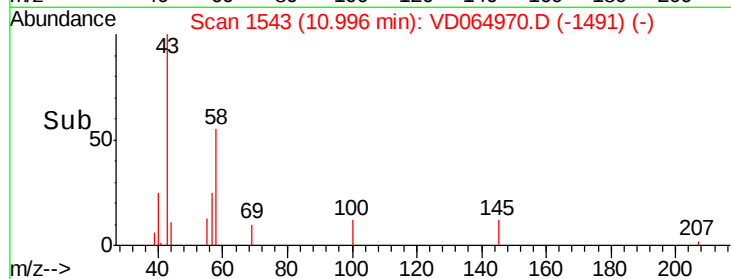
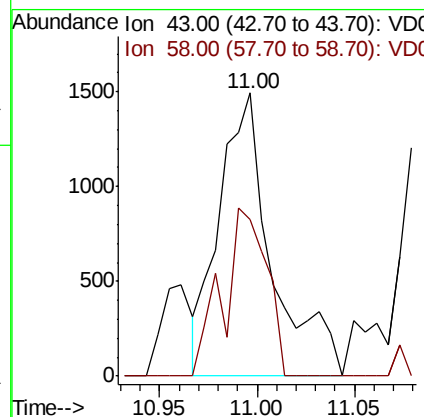
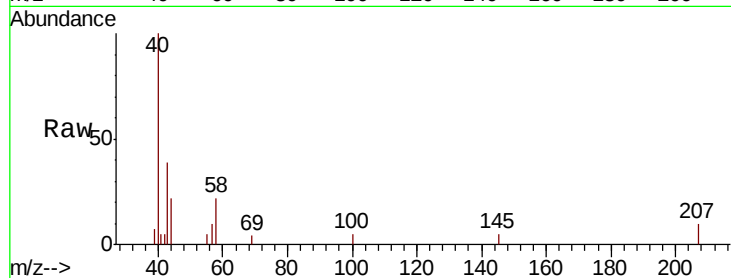




#59
2-Hexanone
Concen: 1.490 ug/l
RT: 11.00 min Scan# 1543
Delta R.T. 0.01 min
Lab File: VD064970.D
Acq: 27 Jan 2020 18:20

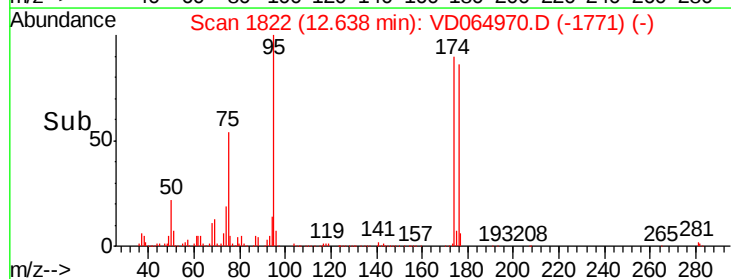
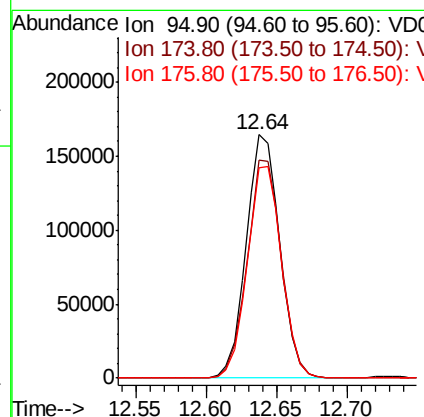
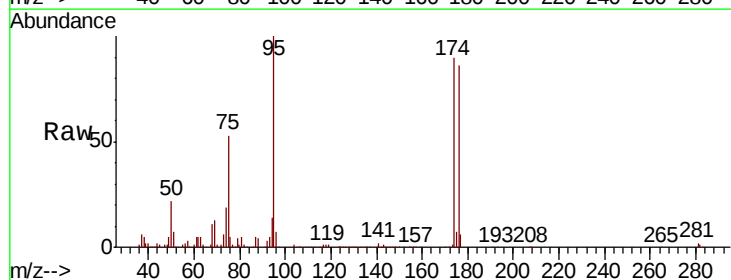
Instrument :
MSVOA_D
ClientSampleId :

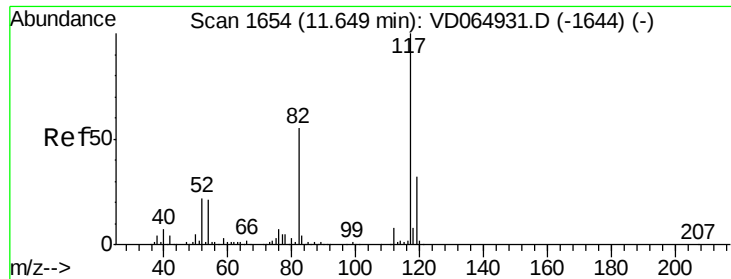
Tot Ion: 43 Resp: 2807
Ion Ratio Lower Upper
43 100
58 48.8 26.5 79.4



#62
4-Bromofluorobenzene
Concen: 51.304 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VD064970.D
Acq: 27 Jan 2020 18:20

Tgt Ion: 95 Resp: 274750
Ion Ratio Lower Upper
95 100
174 90.9 0.0 186.8
176 88.4 0.0 183.4

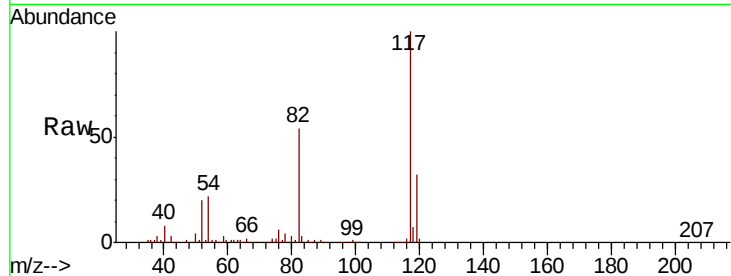




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD064970.D
Acq: 27 Jan 2020 18:20

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.8	43.6	65.4
119	32.2	25.2	37.8

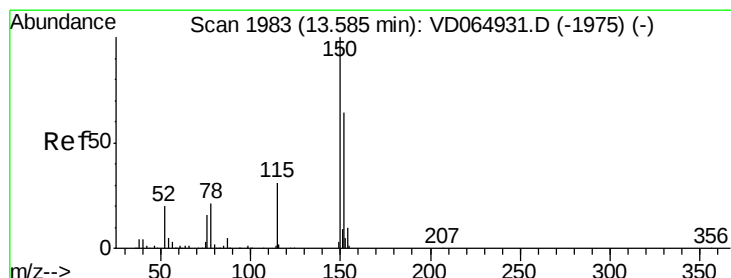
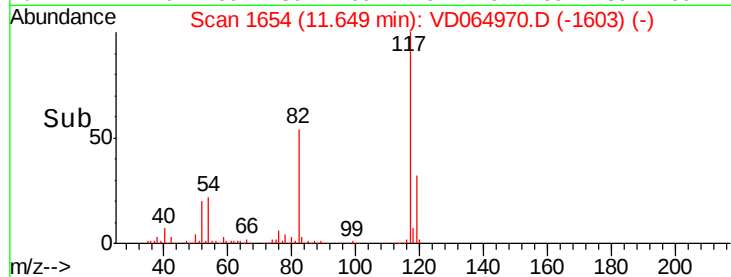
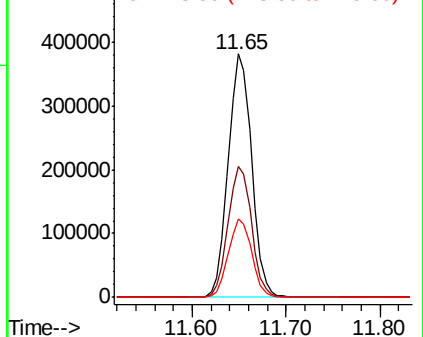


Abundance

Ion 116.90 (116.60 to 117.60): V

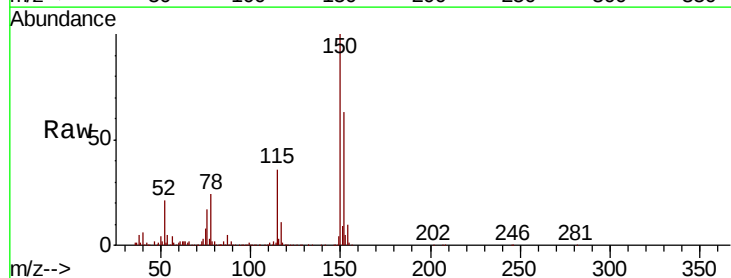
Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. -0.00 min
Lab File: VD064970.D
Acq: 27 Jan 2020 18:20

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.1	28.1	84.4
150	155.3	0.0	350.4

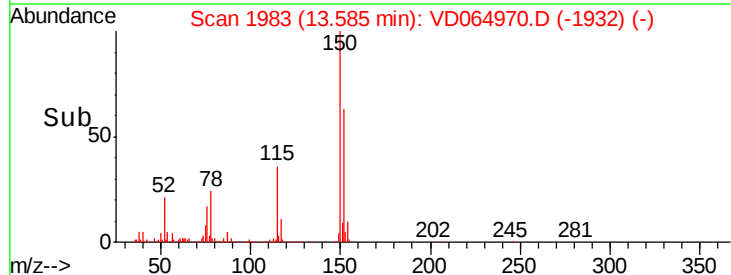
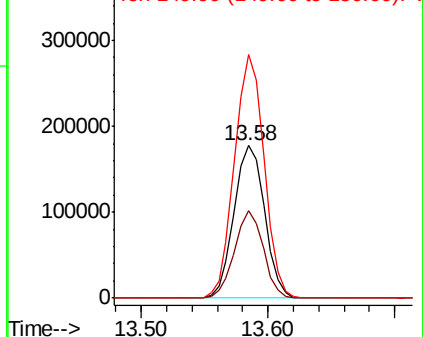


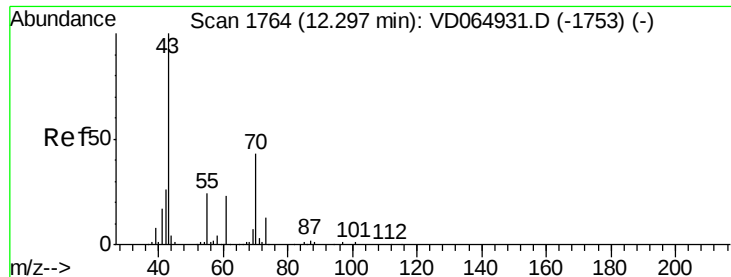
Abundance

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

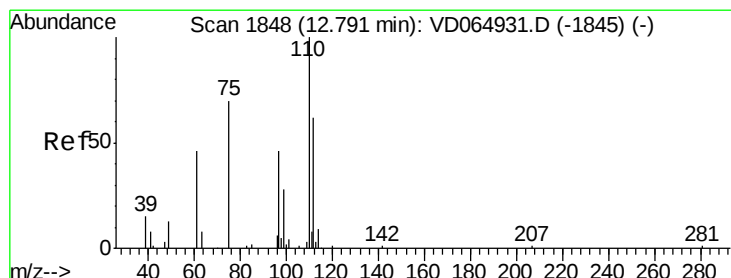
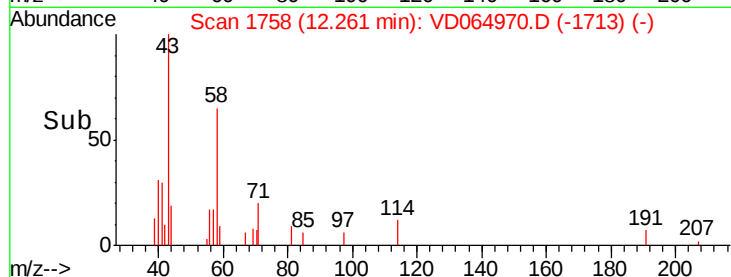
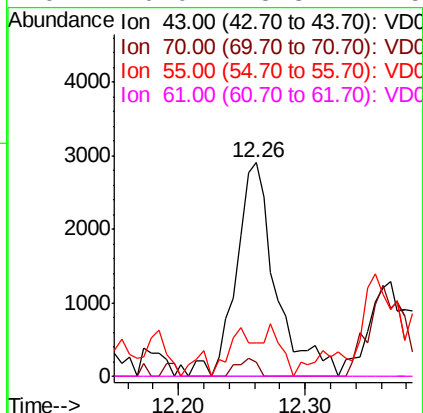
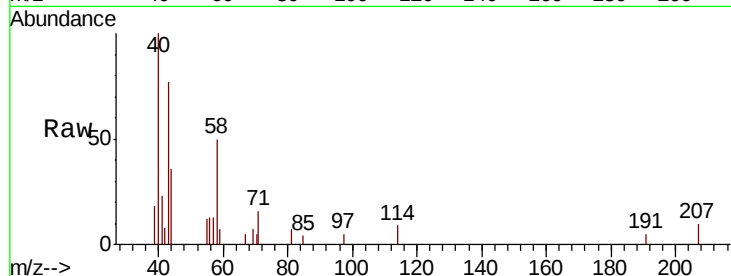




#74
N-amvl acetate
Concen: 1.387 ug/l
RT: 12.26 min Scan# 1758
Delta R.T. -0.04 min
Lab File: VD064970.D
Acq: 27 Jan 2020 18:20

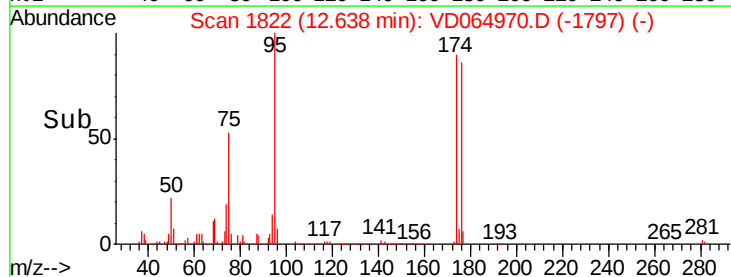
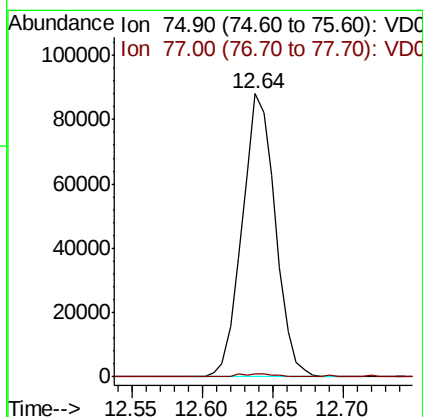
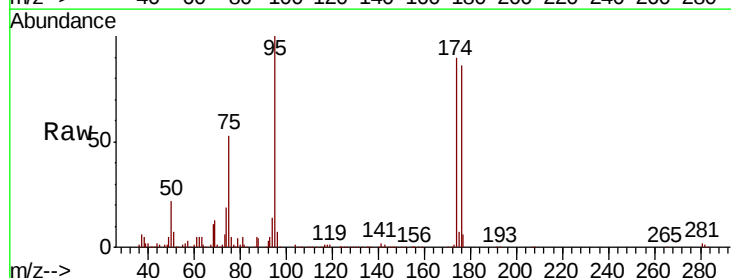
Instrument :
MSVOA_D
ClientSampleId :

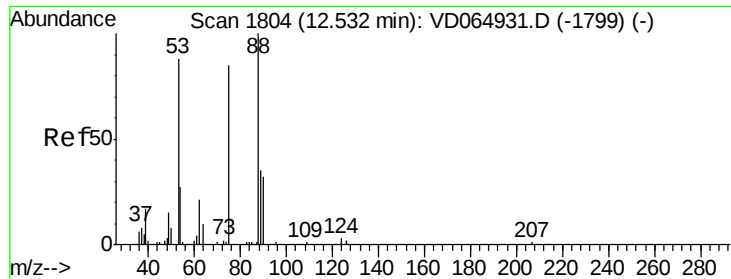
Tot Ion: 43 Resp: 6270
Ion Ratio Lower Upper
43 100
70 4.4 32.6 49.0#
55 16.6 19.9 29.9#
61 0.0 18.3 27.5#



#76
1,2,3-Trichloropropane
Concen: 58.955 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.15 min
Lab File: VD064970.D
Acq: 27 Jan 2020 18:20

Tgt Ion: 75 Resp: 144614
Ion Ratio Lower Upper
75 100
77 1.5 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 125.882 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064970.D

Acq: 27 Jan 2020 18:20

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 75 Resp: 144614

Ion Ratio Lower Upper

75 100

53 0.5 81.0 121.4#

89 0.0 36.2 54.4#

