

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD021720\
 Data File : VD065198.D
 Acq On : 17 Feb 2020 15:57
 Operator : VA/SY
 Sample : L1484-03
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SP-3

Quant Time: Feb 18 03:16:07 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D020520S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 05 15:53:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.99	168	5589	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	7277	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	7179	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.59	152	2421	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	3965	83.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	166.94%	
35) Dibromofluoromethane	7.91	113	2914	71.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	143.54%	
50) Toluene-d8	10.35	98	8455	52.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.64%	
62) 4-Bromofluorobenzene	12.64	95	2592	50.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.24%	

Target Compounds

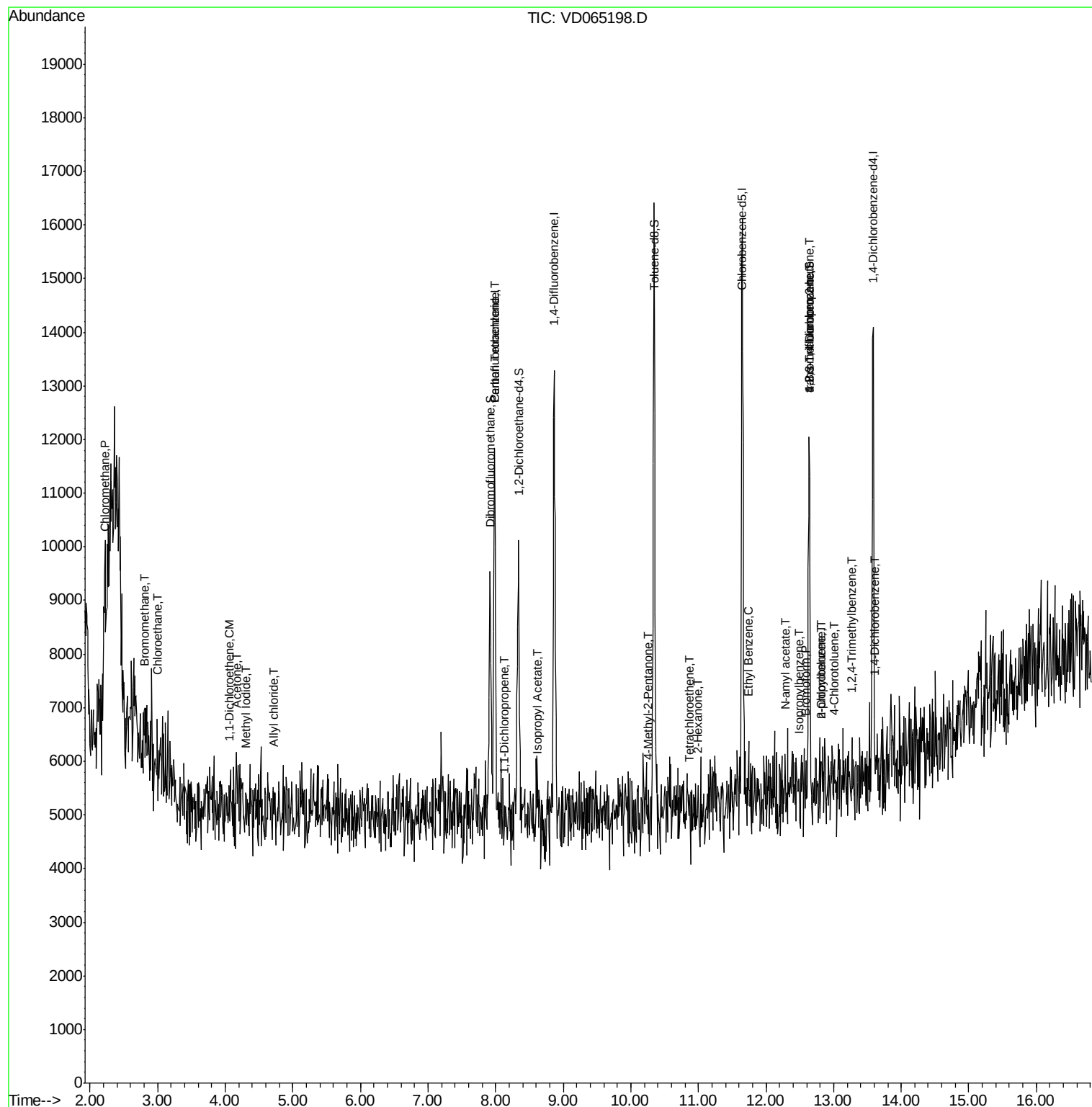
						Qvalue
3) Chloromethane	2.21	50	389	7.105	ug/l #	40
5) Bromomethane	2.80	94	381	10.148	ug/l	92
6) Chloroethane	2.99	64	56	1.559	ug/l #	44
10) Methyl Iodide	4.30	142	142	2.415	ug/l #	87
12) 1,1-Dichloroethene	4.06	96	64	1.297	ug/l #	1
14) Allyl chloride	4.71	41	316	3.854	ug/l #	43
16) Acetone	4.17	43	112	9.431	ug/l #	45
36) 1,1-Dichloropropene	8.12	75	77	1.138	ug/l #	41
38) Carbon Tetrachloride	7.98	117	380	5.499	ug/l #	11
43) Isopropyl Acetate	8.63	43	61	1.154	ug/l #	52
51) 4-Methyl-2-Pentanone	10.24	43	60	2.305	ug/l #	37
59) 2-Hexanone	10.98	43	111	6.021	ug/l #	26
64) Tetrachloroethene	10.88	164	58	1.124	ug/l #	1
67) Ethyl Benzene	11.74	91	355	1.407	ug/l #	43
71) Bromoform	12.60	173	63	2.284	ug/l #	29
73) Isopropylbenzene	12.49	105	313	1.884	ug/l #	48
74) N-amyl acetate	12.28	43	65	1.800	ug/l #	43
76) 1,2,3-Trichloropropane	12.64	75	1262	68.851	ug/l #	100
78) n-propylbenzene	12.83	91	447	2.297	ug/l #	52
79) 2-Chlorotoluene	12.83	91	447	4.121	ug/l #	40
81) trans-1,4-Dichloro-2-buten	12.64	75	1262	137.696	ug/l #	10
82) 4-Chlorotoluene	13.01	91	184	1.615	ug/l #	40
84) 1,2,4-Trimethylbenzene	13.27	105	319	2.364	ug/l #	30
88) 1,4-Dichlorobenzene	13.61	146	129	1.729	ug/l #	25

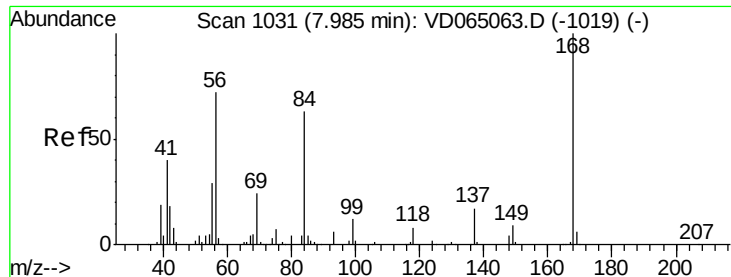
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 18 03:16:07 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D020520S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 05 15:53:00 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065198.D

Acq: 17 Feb 2020 15:57

Instrument :

MSVOA_D

ClientSampleId :

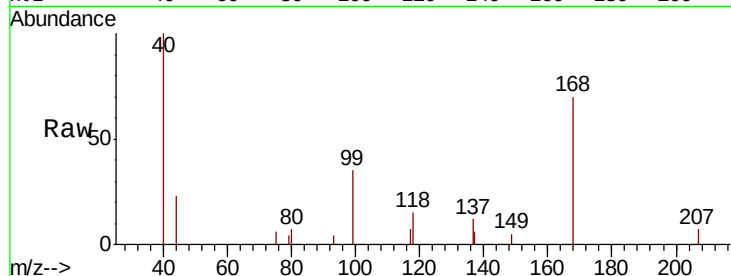
SP-3

Tot Ion:168 Resp: 5589

Ion Ratio Lower Upper

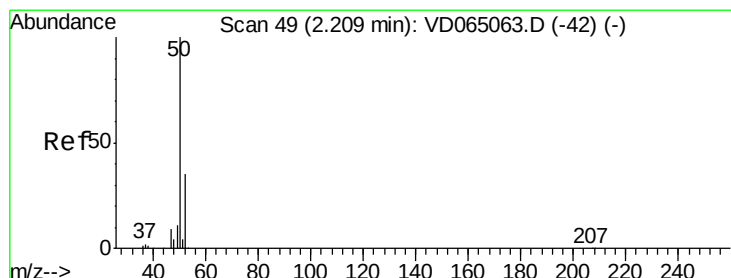
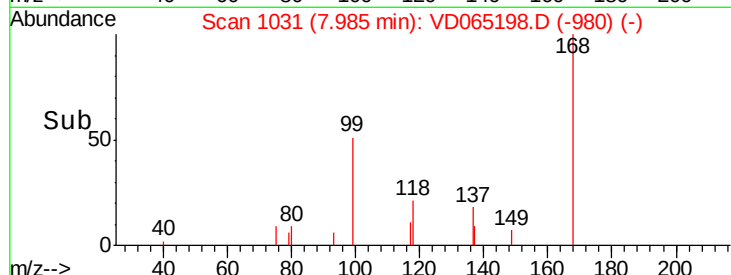
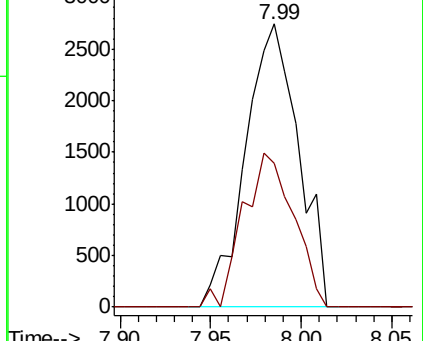
168 100

99 50.6 41.0 61.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: 7.105 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD065198.D

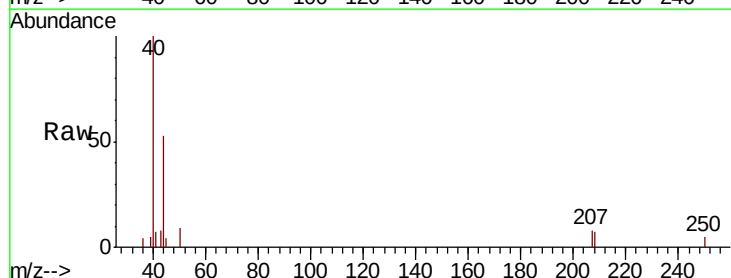
Acq: 17 Feb 2020 15:57

Tgt Ion: 50 Resp: 389

Ion Ratio Lower Upper

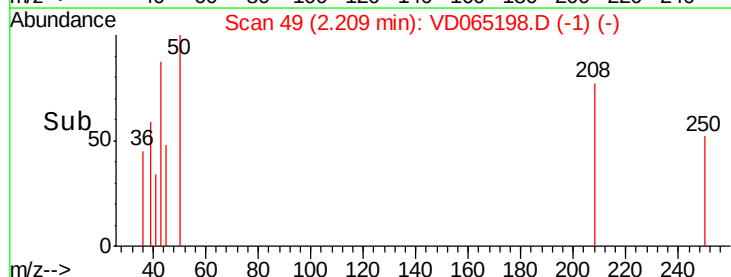
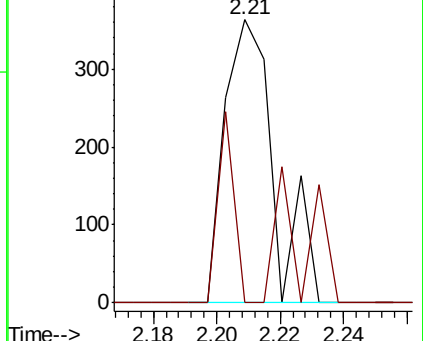
50 100

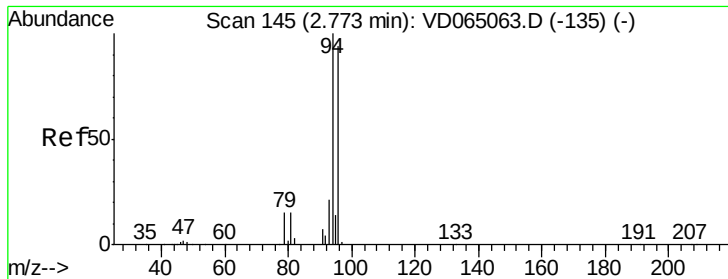
52 0.0 27.8 41.6#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 10.148 ug/l

RT: 2.80 min Scan# 149

Delta R.T. 0.02 min

Lab File: VD065198.D

Acq: 17 Feb 2020 15:57

Instrument :

MSVOA_D

ClientSampleId :

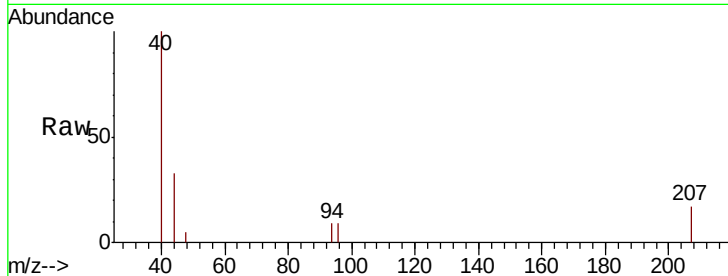
SP-3

Tot Ion: 94 Resp: 381

Ion Ratio Lower Upper

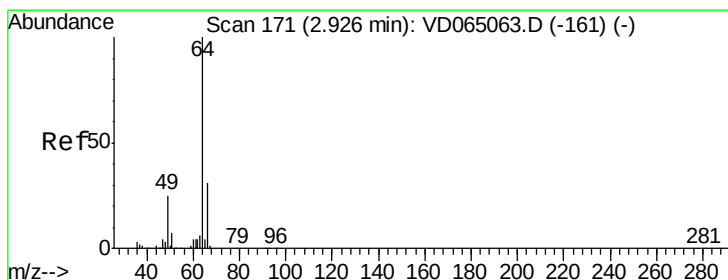
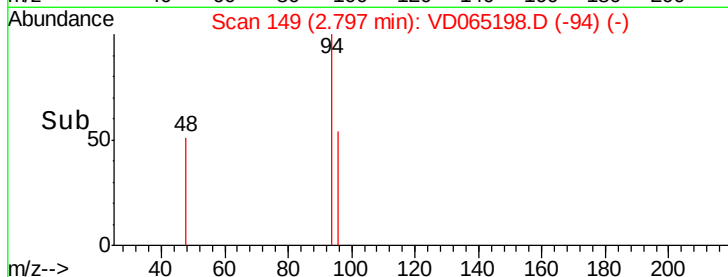
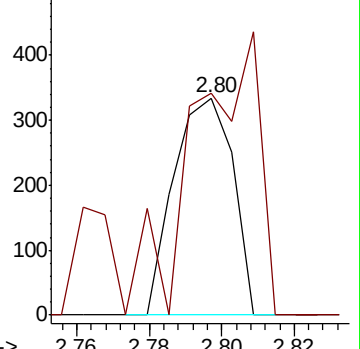
94 100

96 102.1 75.4 113.0



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 1.559 ug/l

RT: 2.99 min Scan# 181

Delta R.T. 0.06 min

Lab File: VD065198.D

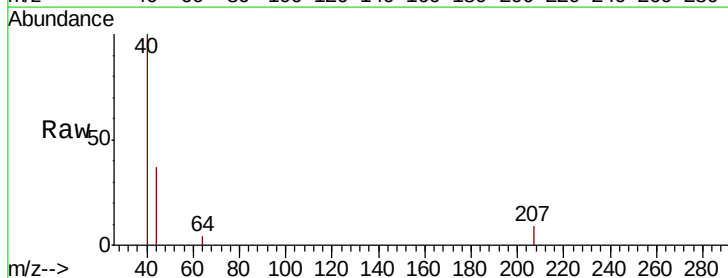
Acq: 17 Feb 2020 15:57

Tgt Ion: 64 Resp: 56

Ion Ratio Lower Upper

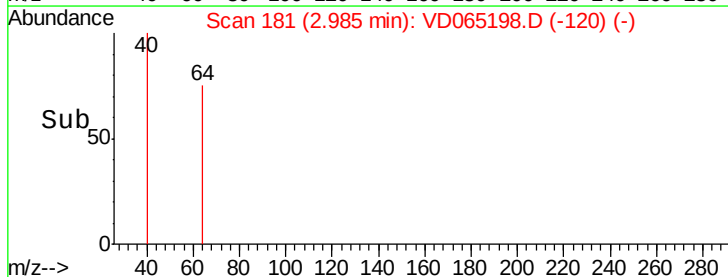
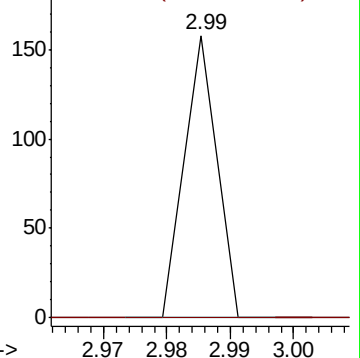
64 100

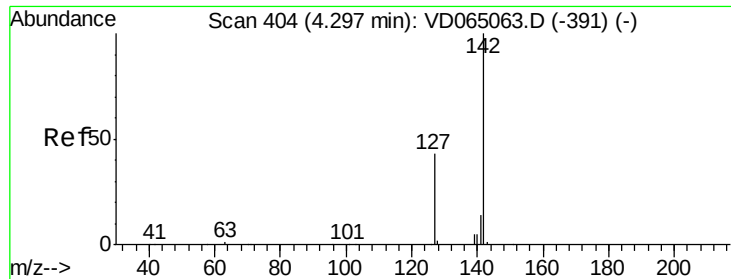
66 0.0 24.8 37.2#



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC

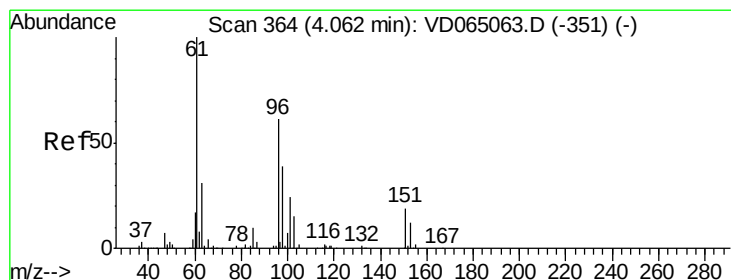
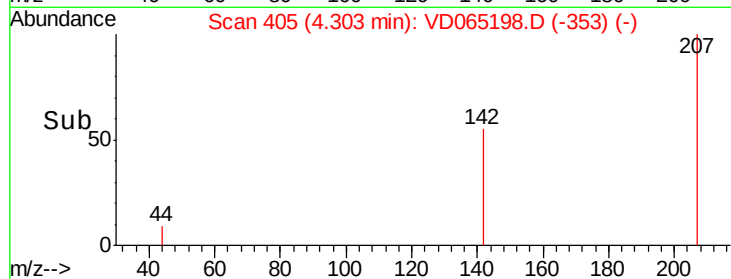
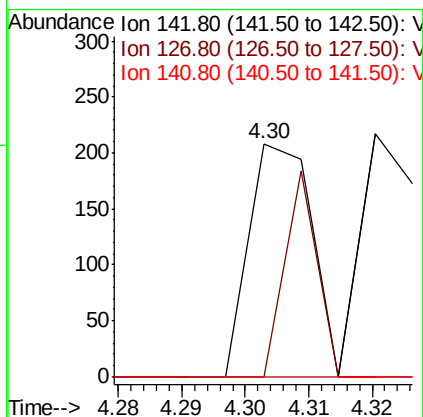
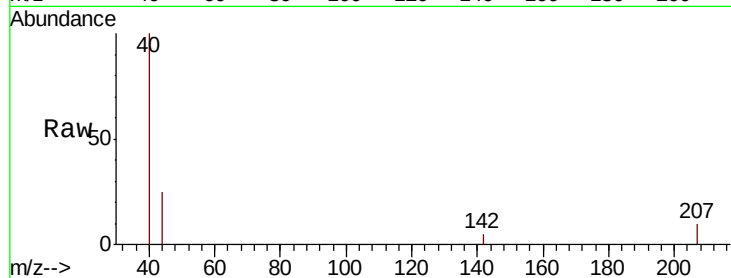




#10
Methyl Iodide
Concen: 2.415 ug/l
RT: 4.30 min Scan# 405
Delta R.T. 0.01 min
Lab File: VD065198.D
Acq: 17 Feb 2020 15:57

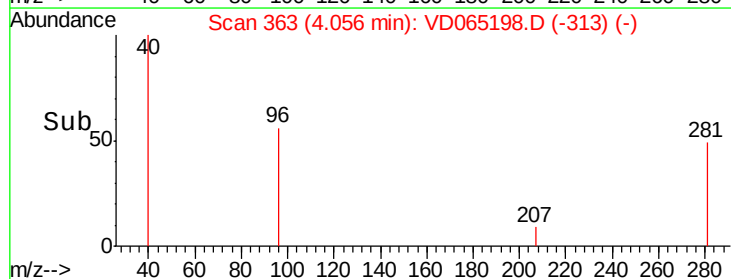
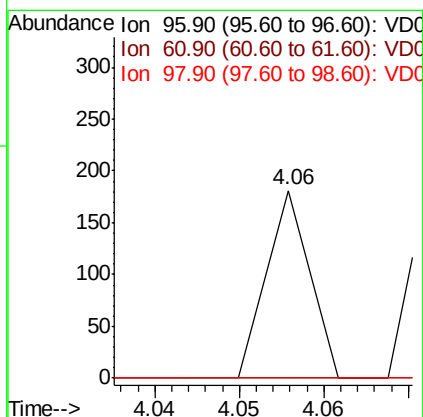
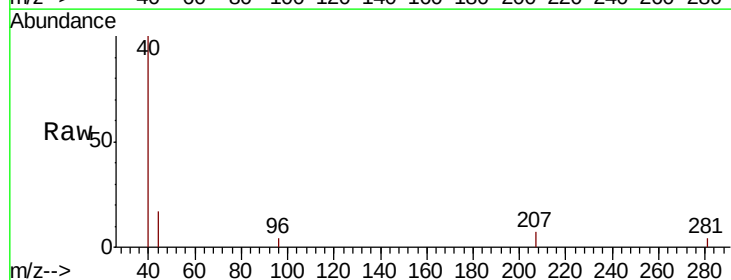
Instrument :
MSVOA_D
ClientSampleId :
SP-3

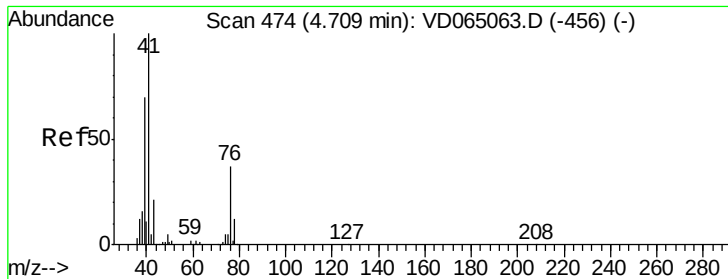
Tot Ion:142 Resp: 142
Ion Ratio Lower Upper
142 100
127 45.8 34.0 51.0
141 0.0 11.6 17.4#



#12
1,1-Dichloroethene
Concen: 1.297 ug/l
RT: 4.06 min Scan# 363
Delta R.T. -0.01 min
Lab File: VD065198.D
Acq: 17 Feb 2020 15:57

Tgt Ion: 96 Resp: 64
Ion Ratio Lower Upper
96 100
61 0.0 131.4 197.2#
98 0.0 51.1 76.7#

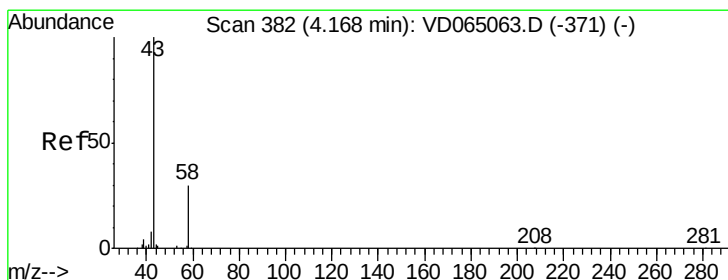
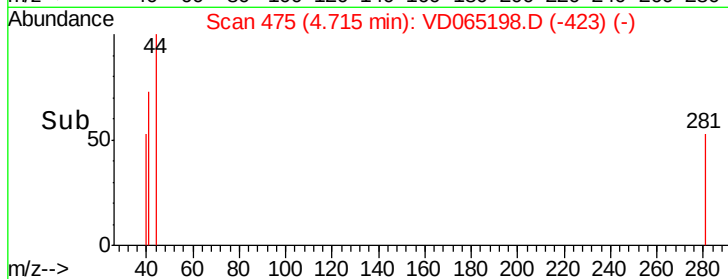
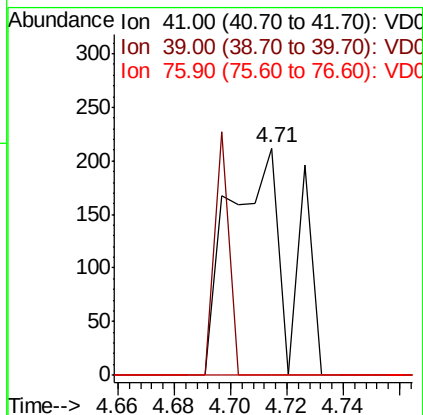
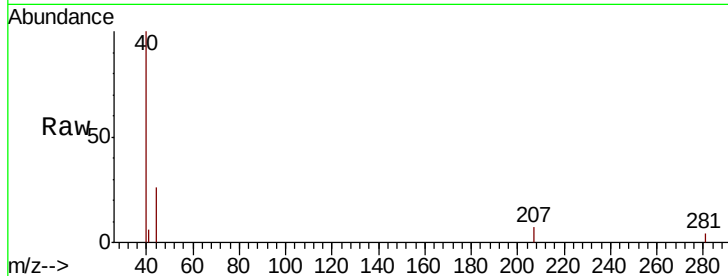




#14
Allvl chloride
Concen: 3.854 ug/l
RT: 4.71 min Scan# 475
Delta R.T. 0.01 min
Lab File: VD065198.D
Acq: 17 Feb 2020 15:57

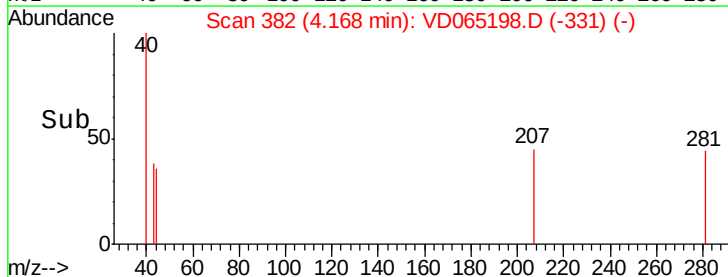
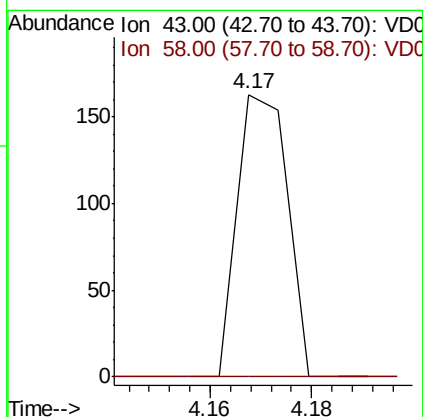
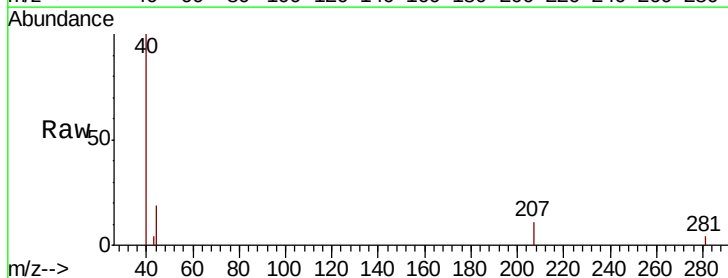
Instrument :
MSVOA_D
ClientSampled :
SP-3

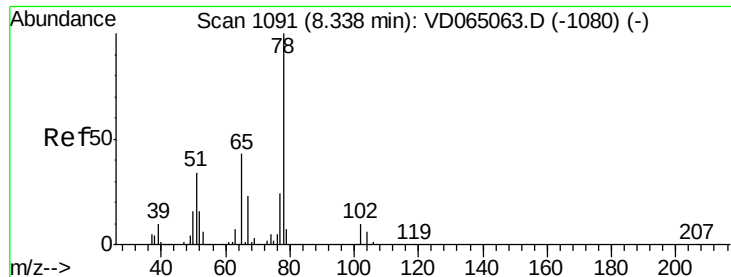
Tot Ion: 41 Resp: 316
Ion Ratio Lower Upper
41 100
39 25.3 57.1 85.7#
76 0.0 28.0 42.0#



#16
Acetone
Concen: 9.431 ug/l
RT: 4.17 min Scan# 382
Delta R.T. 0.00 min
Lab File: VD065198.D
Acq: 17 Feb 2020 15:57

Tgt Ion: 43 Resp: 112
Ion Ratio Lower Upper
43 100
58 0.0 23.5 35.3#

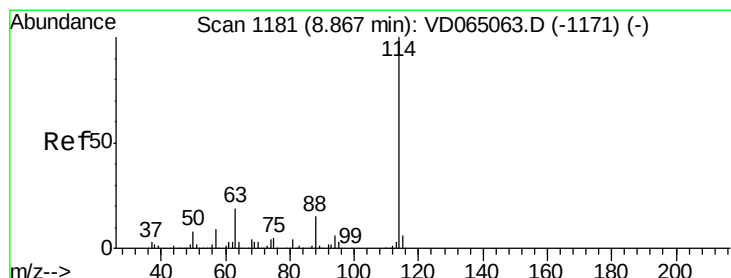
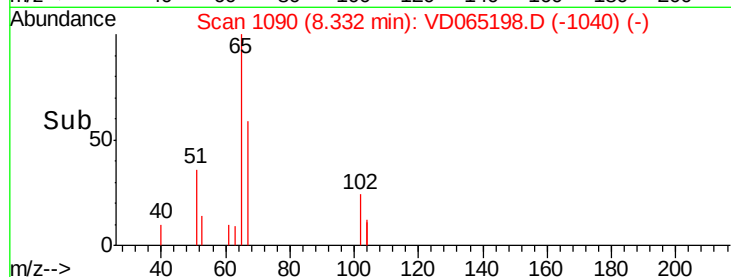
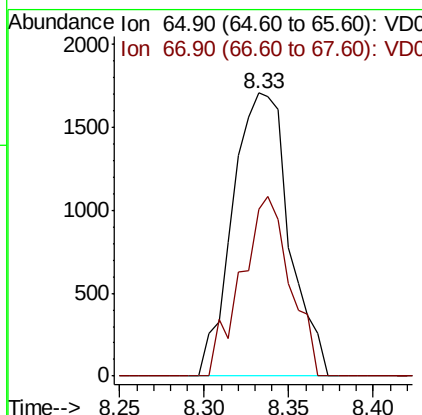
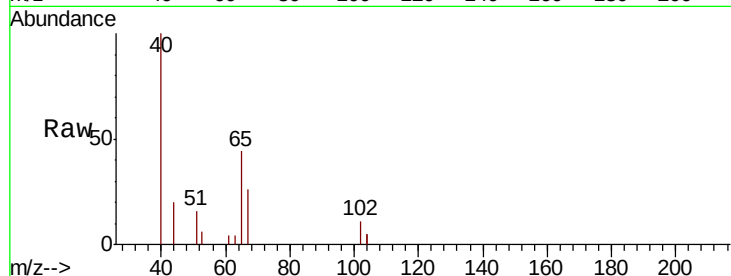




#33
 1,2-Dichloroethane-d4
 Concen: 83.471 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. -0.01 min
 Lab File: VD065198.D
 Acq: 17 Feb 2020 15:57

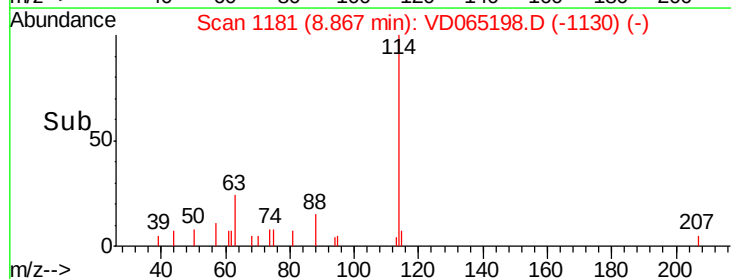
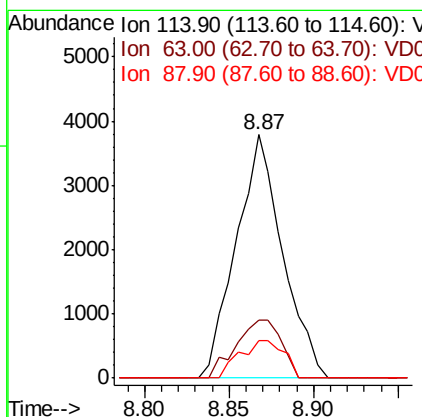
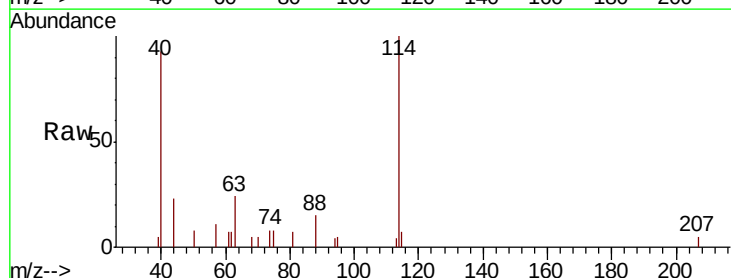
Instrument :
 MSVOA_D
 ClientSampleId :
 SP-3

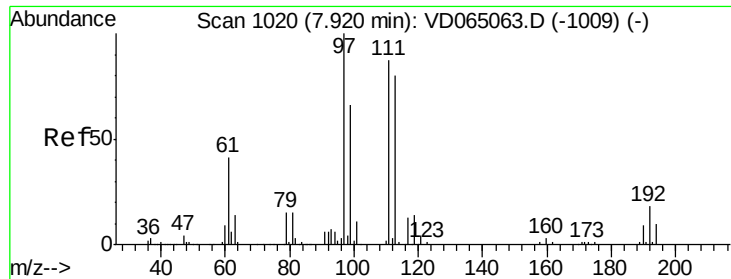
Tot Ion: 65 Resp: 3965
 Ion Ratio Lower Upper
 65 100
 67 55.1 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD065198.D
 Acq: 17 Feb 2020 15:57

Tgt Ion: 114 Resp: 7277
 Ion Ratio Lower Upper
 114 100
 63 23.8 0.0 38.8
 88 15.4 0.0 29.6





#35

Dibromofluoromethane

Concen: 71.771 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. -0.01 min

Lab File: VD065198.D

Acq: 17 Feb 2020 15:57

Instrument :

MSVOA_D

ClientSampleId :

SP-3

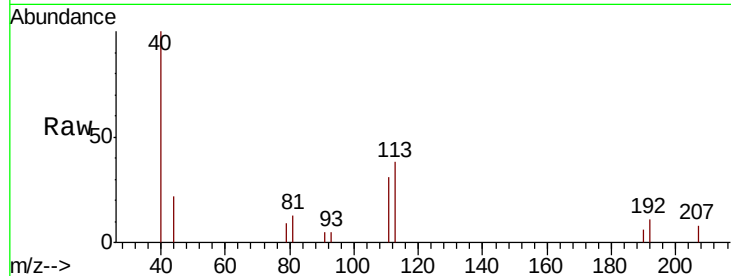
Tot Ion:113 Resp: 2914

Ion Ratio Lower Upper

113 100

111 116.3 83.1 124.7

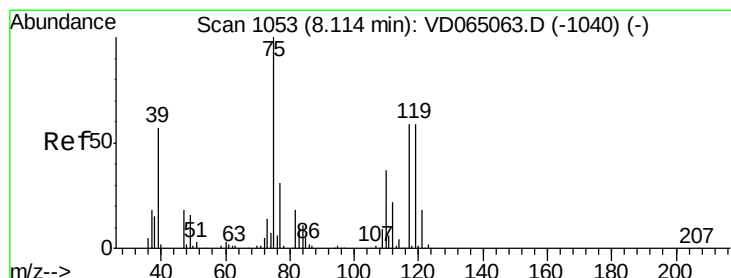
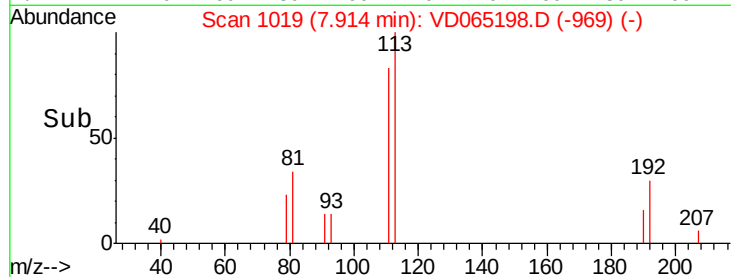
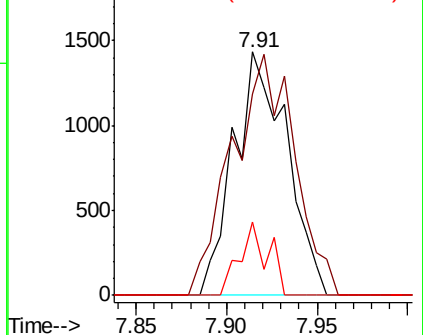
192 16.1 18.1 27.1#



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: 1.138 ug/l

RT: 8.12 min Scan# 1054

Delta R.T. 0.01 min

Lab File: VD065198.D

Acq: 17 Feb 2020 15:57

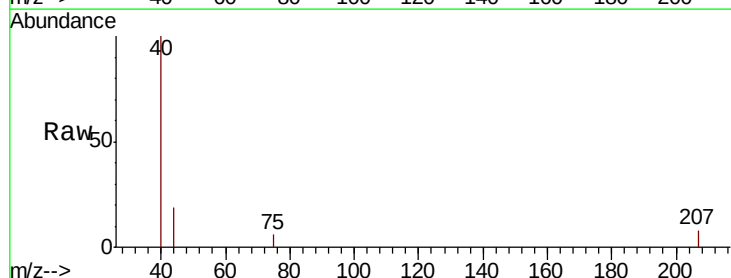
Tgt Ion: 75 Resp: 77

Ion Ratio Lower Upper

75 100

110 0.0 18.1 54.3#

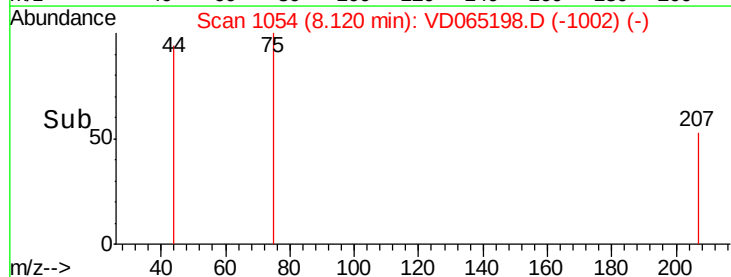
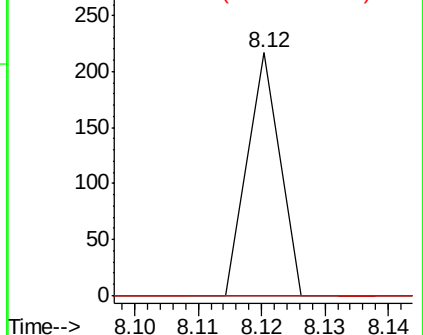
77 0.0 24.7 37.1#

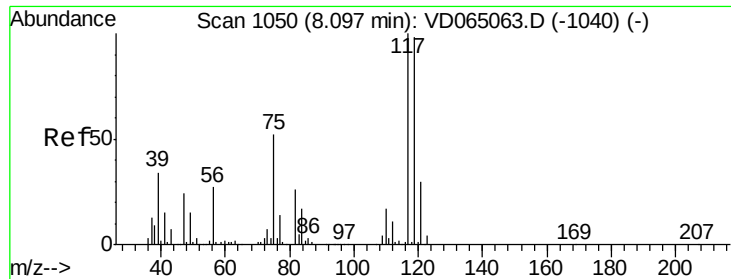


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.499 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD065198.D

Acq: 17 Feb 2020 15:57

Instrument :

MSVOA_D

ClientSampleID :

SP-3

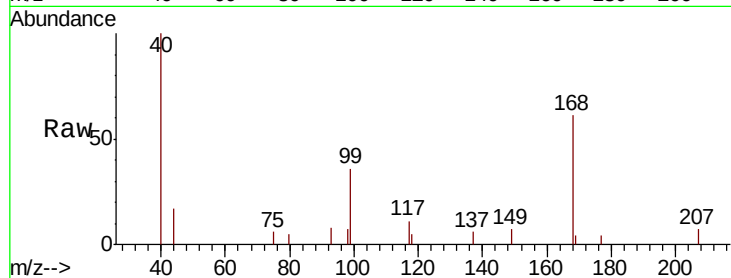
Tot Ion:117 Resp: 380

Ion Ratio Lower Upper

117 100

119 0.0 78.5 117.7#

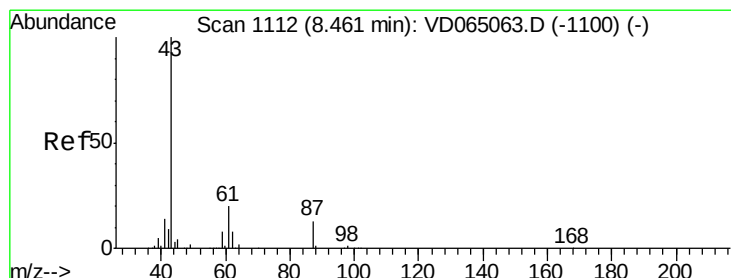
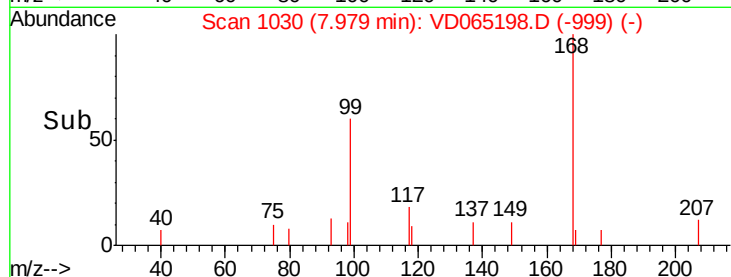
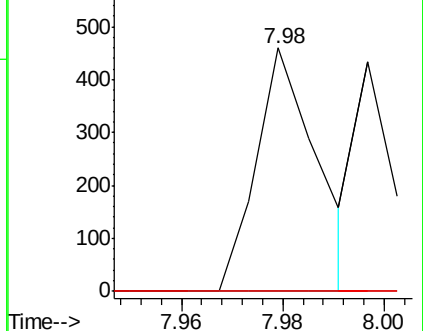
121 0.0 23.8 35.6#



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



#43

Isopropyl Acetate

Concen: 1.154 ug/l

RT: 8.63 min Scan# 1140

Delta R.T. 0.16 min

Lab File: VD065198.D

Acq: 17 Feb 2020 15:57

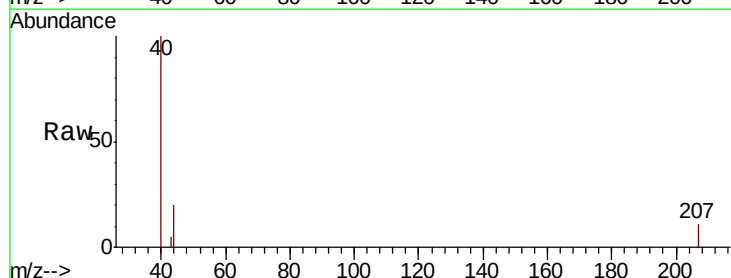
Tgt Ion: 43 Resp: 61

Ion Ratio Lower Upper

43 100

61 0.0 24.0 36.0#

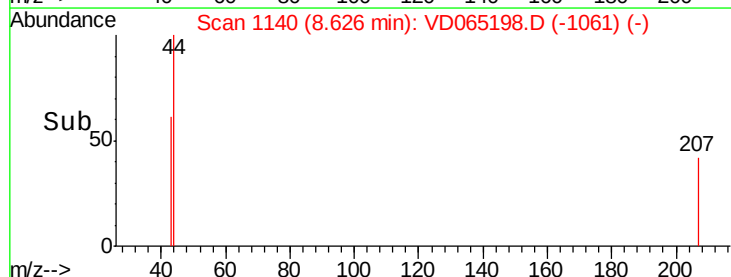
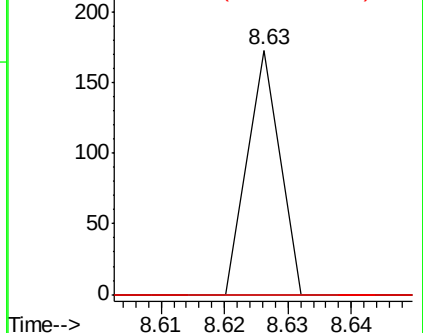
87 0.0 10.2 15.4#

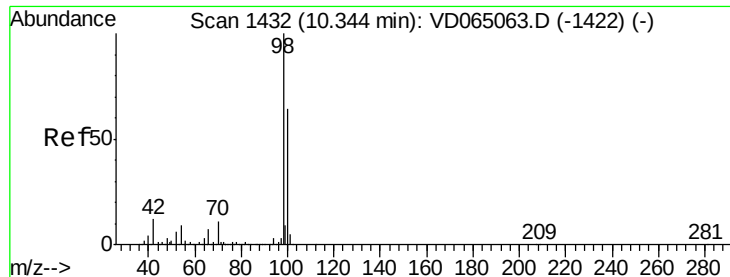


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

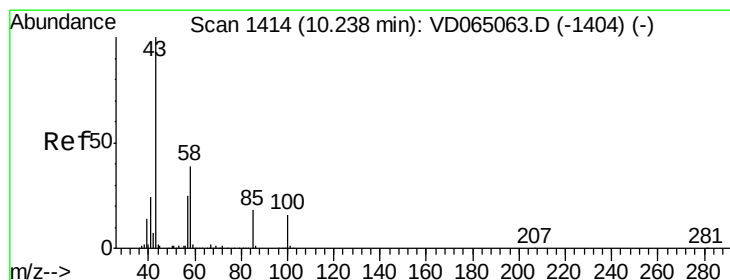
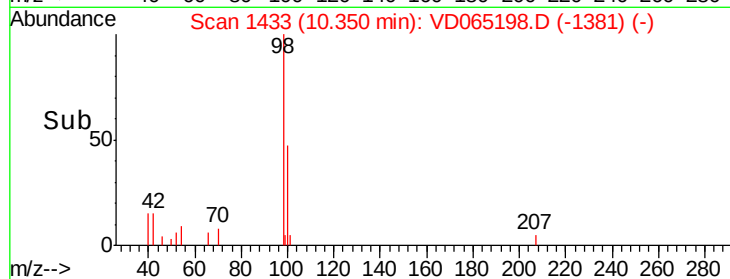
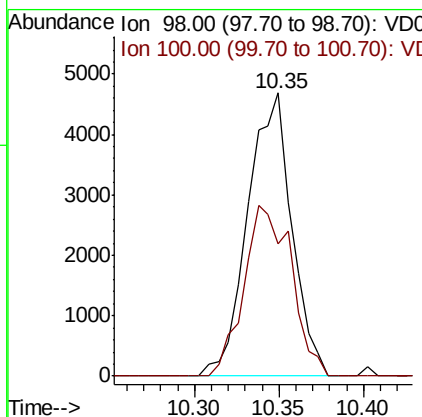
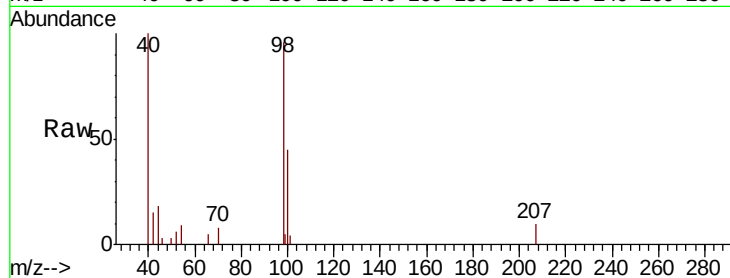




#50
Toluene-d8
Concen: 52.319 ug/l
RT: 10.35 min Scan# 1433
Delta R.T. 0.01 min
Lab File: VD065198.D
Acq: 17 Feb 2020 15:57

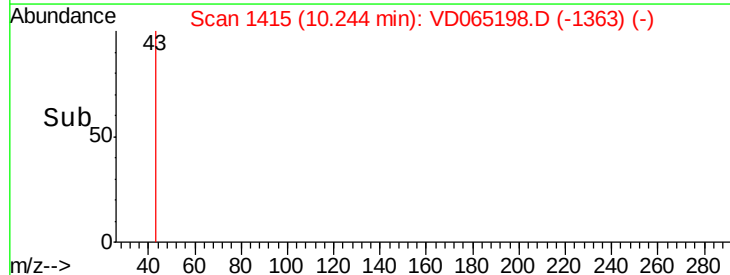
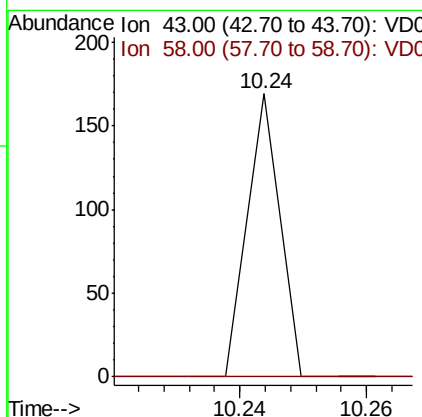
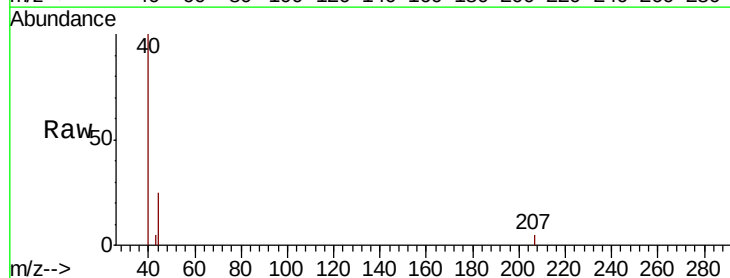
Instrument :
MSVOA_D
ClientSampled :
SP-3

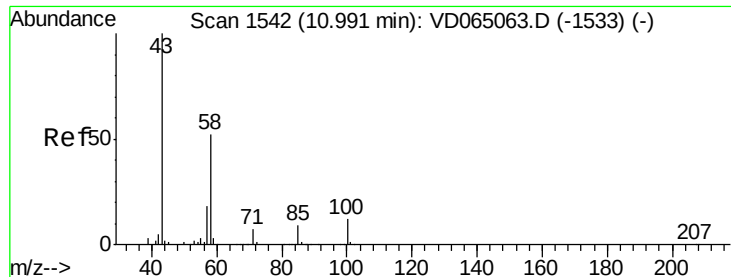
Tot Ion: 98 Resp: 8455
Ion Ratio Lower Upper
98 100
100 65.2 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 2.305 ug/l
RT: 10.24 min Scan# 1415
Delta R.T. 0.01 min
Lab File: VD065198.D
Acq: 17 Feb 2020 15:57

Tgt Ion: 43 Resp: 60
Ion Ratio Lower Upper
43 100
58 0.0 30.2 45.2#

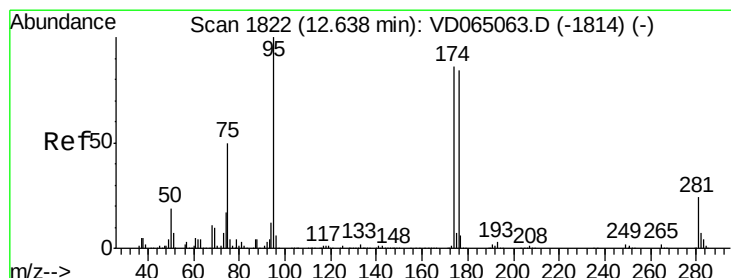
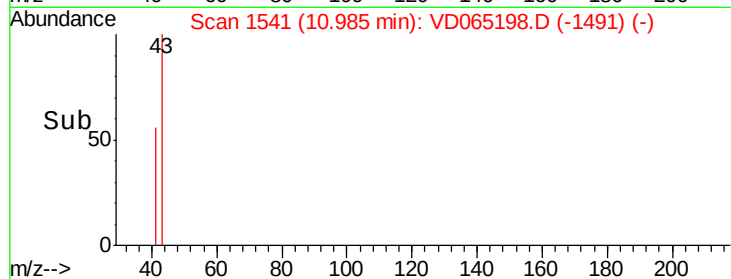
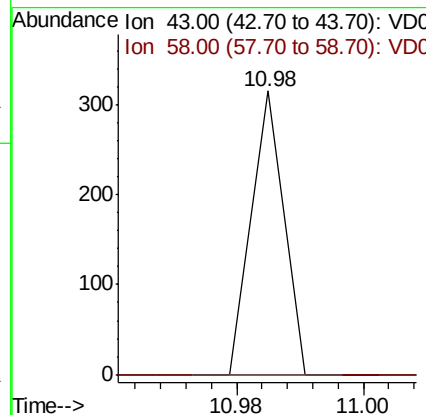
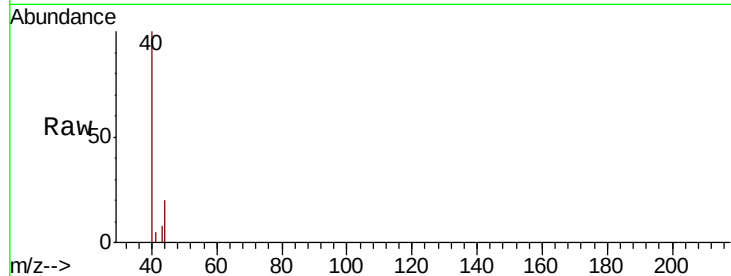




#59
2-Hexanone
Concen: 6.021 ug/l
RT: 10.98 min Scan# 1541
Delta R.T. -0.01 min
Lab File: VD065198.D
Acq: 17 Feb 2020 15:57

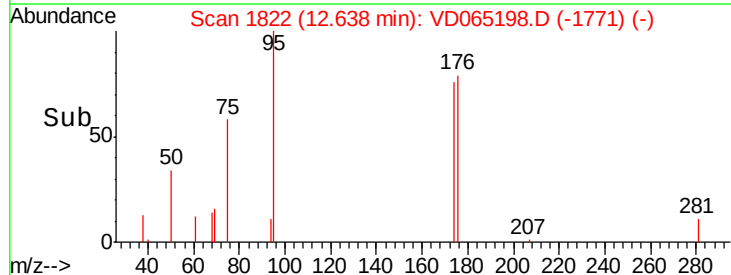
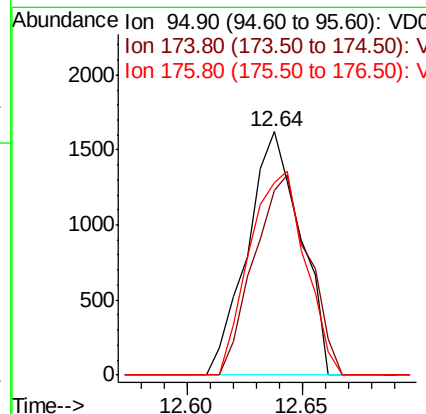
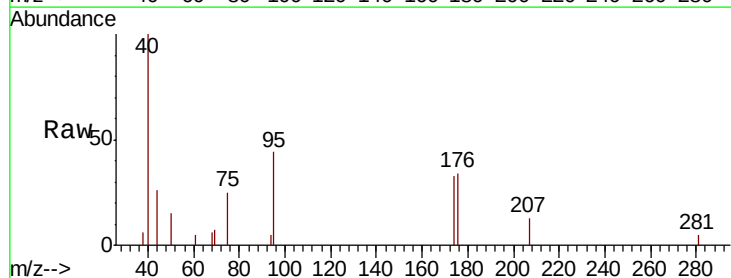
Instrument :
MSVOA_D
ClientSampleId :
SP-3

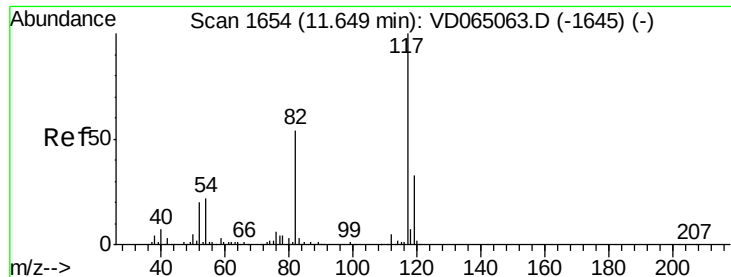
Tot Ion: 43 Resp: 111
Ion Ratio Lower Upper
43 100
58 0.0 26.2 78.6#



#62
4-Bromofluorobenzene
Concen: 50.619 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD065198.D
Acq: 17 Feb 2020 15:57

Tgt Ion: 95 Resp: 2592
Ion Ratio Lower Upper
95 100
174 84.3 0.0 180.0
176 87.6 0.0 173.2

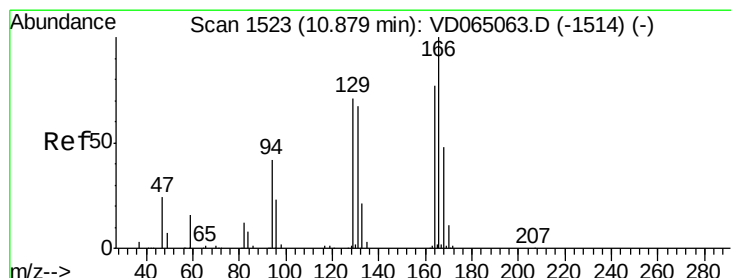
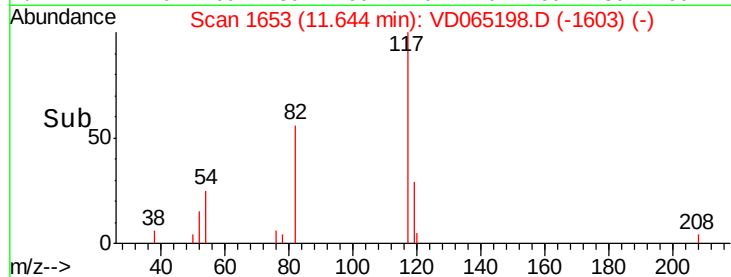
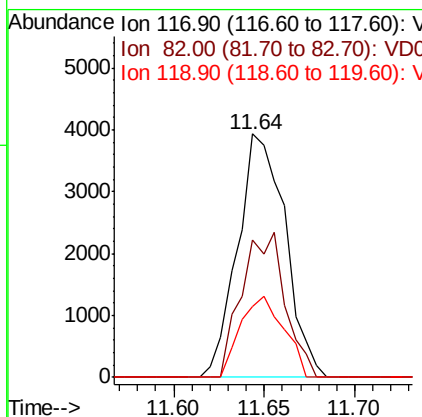
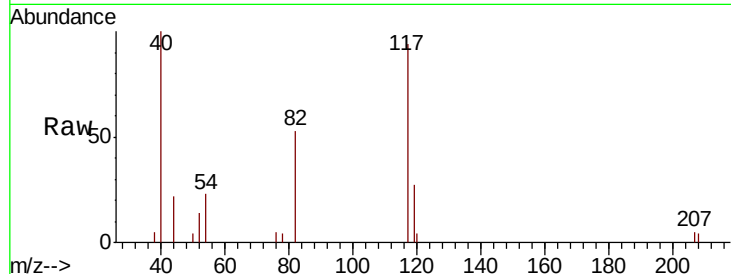




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.01 min
Lab File: VD065198.D
Acq: 17 Feb 2020 15:57

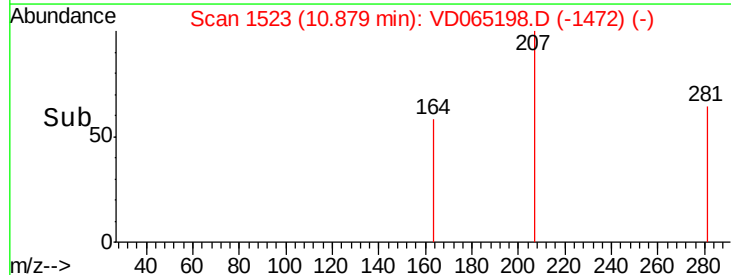
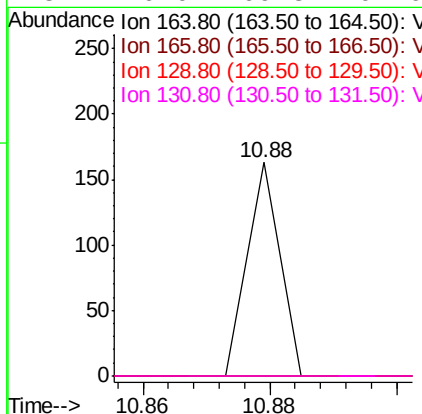
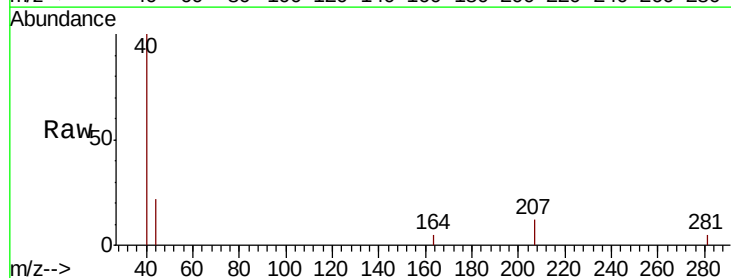
Instrument :
MSVOA_D
ClientSampled :
SP-3

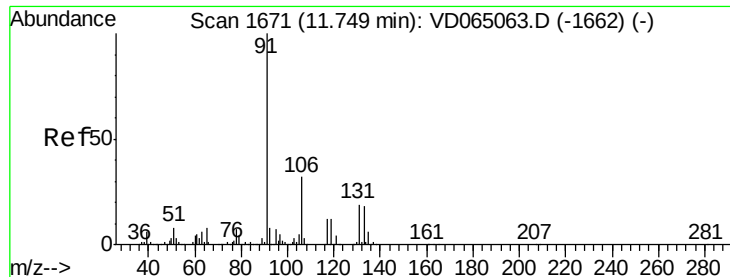
Tot Ion:117 Resp: 7179
Ion Ratio Lower Upper
117 100
82 56.5 43.1 64.7
119 28.8 26.0 39.0



#64
Tetrachloroethene
Concen: 1.124 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.00 min
Lab File: VD065198.D
Acq: 17 Feb 2020 15:57

Tgt Ion:164 Resp: 58
Ion Ratio Lower Upper
164 100
166 0.0 103.5 155.3#
129 0.0 73.3 109.9#
131 0.0 69.8 104.6#

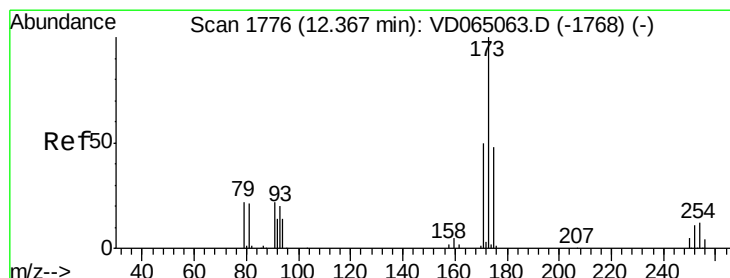
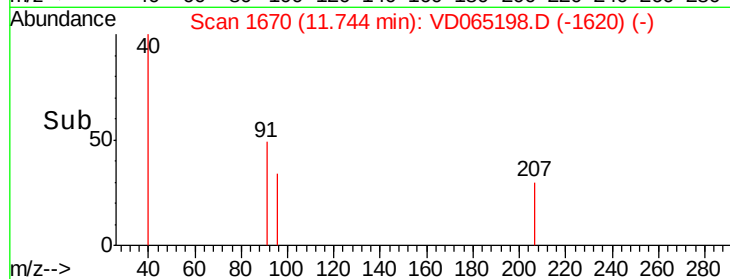
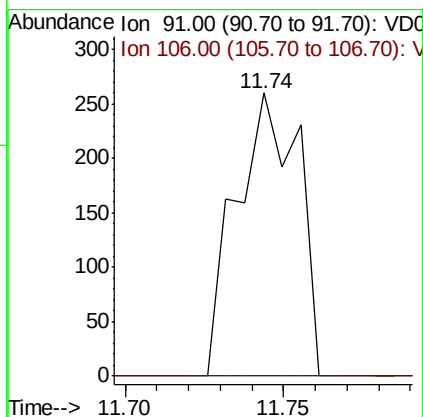
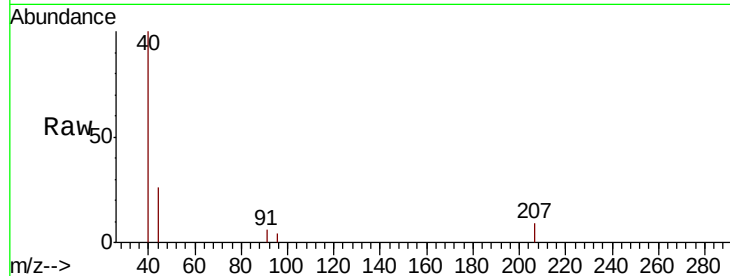




#67
Ethyl Benzene
Concen: 1.407 ug/l
RT: 11.74 min Scan# 1670
Delta R.T. -0.01 min
Lab File: VD065198.D
Acq: 17 Feb 2020 15:57

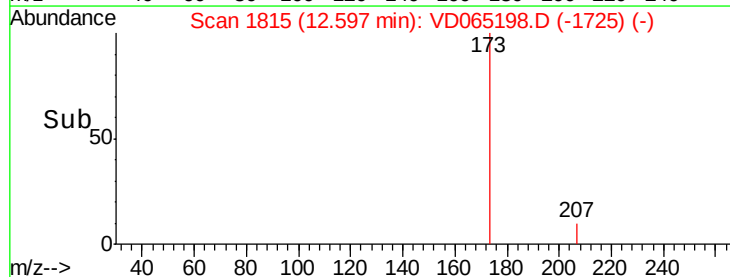
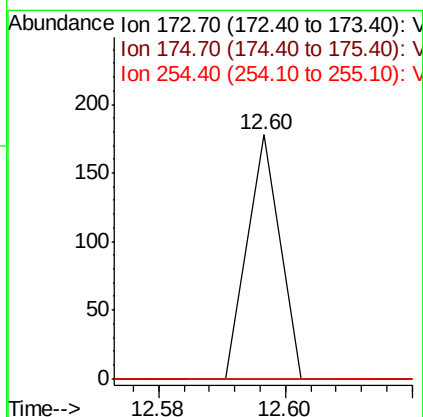
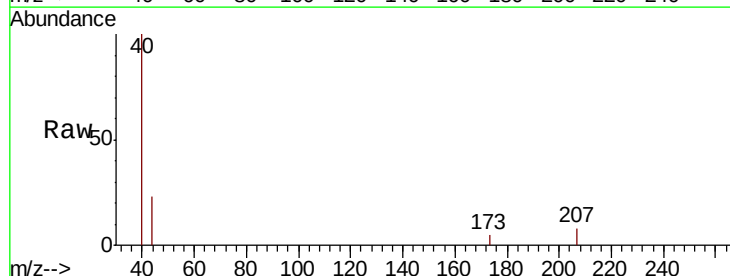
Instrument :
MSVOA_D
ClientSampleId :
SP-3

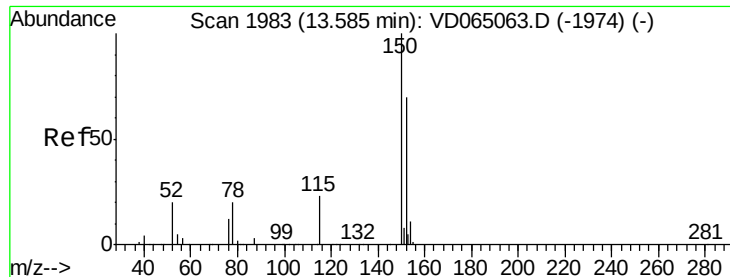
Tot Ion: 91 Resp: 355
Ion Ratio Lower Upper
91 100
106 0.0 25.4 38.2#



#71
Bromoform
Concen: 2.284 ug/l
RT: 12.60 min Scan# 1815
Delta R.T. 0.23 min
Lab File: VD065198.D
Acq: 17 Feb 2020 15:57

Tgt Ion: 173 Resp: 63
Ion Ratio Lower Upper
173 100
175 0.0 24.3 72.8#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.59 min Scan# 1984

Delta R.T. 0.01 min

Lab File: VD065198.D

Acq: 17 Feb 2020 15:57

Instrument :

MSVOA_D

ClientSampleId :

SP-3

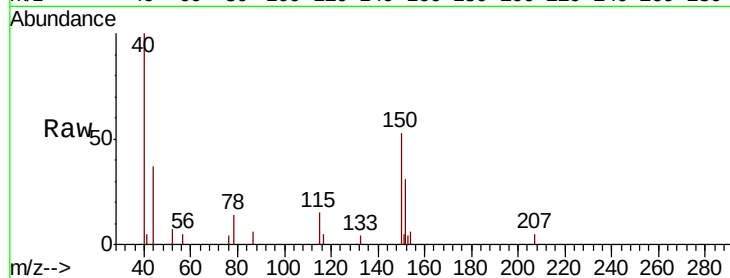
Tot Ion:152 Resp: 2421

Ion Ratio Lower Upper

152 100

115 67.0 27.5 82.4

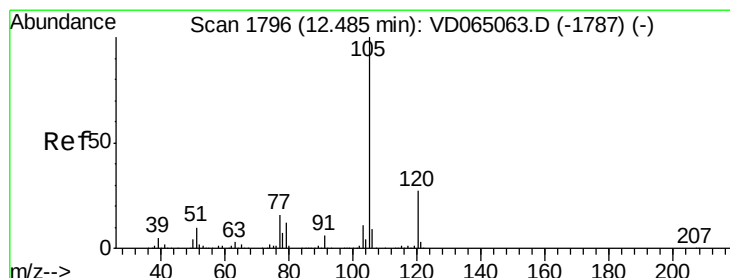
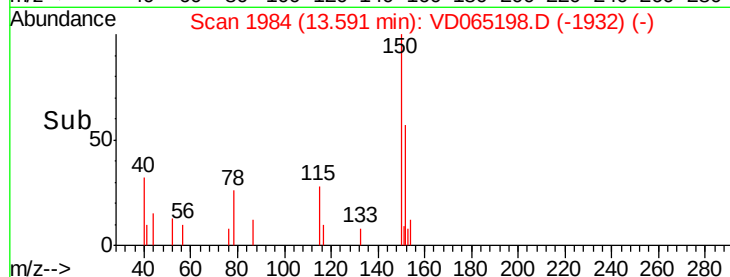
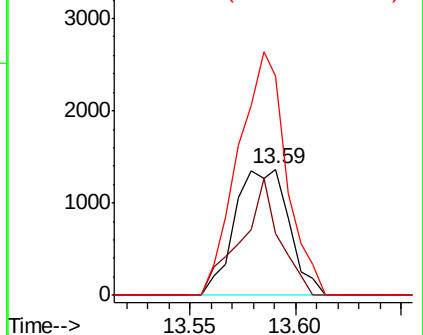
150 173.5 0.0 343.2



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



#73

Isopropylbenzene

Concen: 1.884 ug/l

RT: 12.49 min Scan# 1797

Delta R.T. 0.01 min

Lab File: VD065198.D

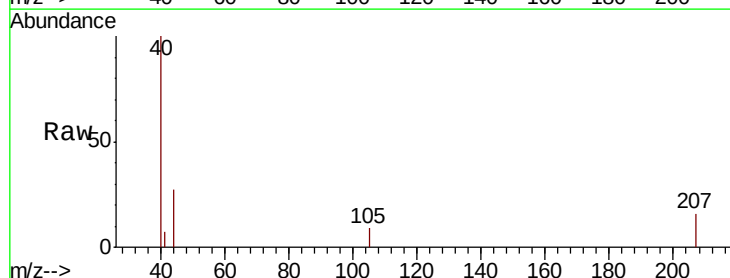
Acq: 17 Feb 2020 15:57

Tgt Ion:105 Resp: 313

Ion Ratio Lower Upper

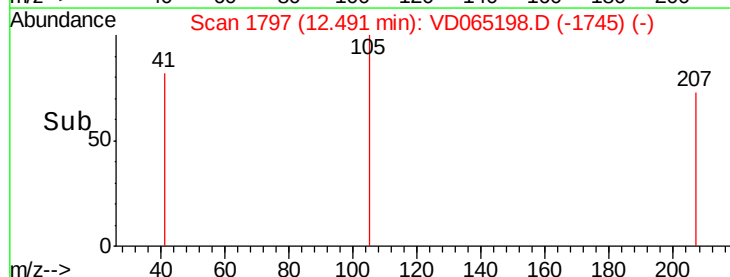
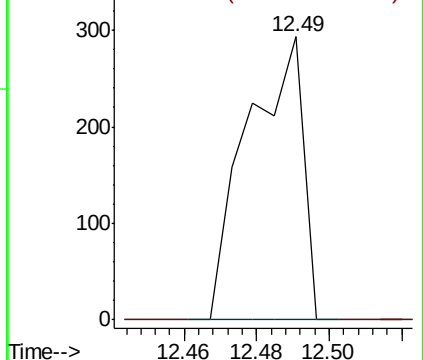
105 100

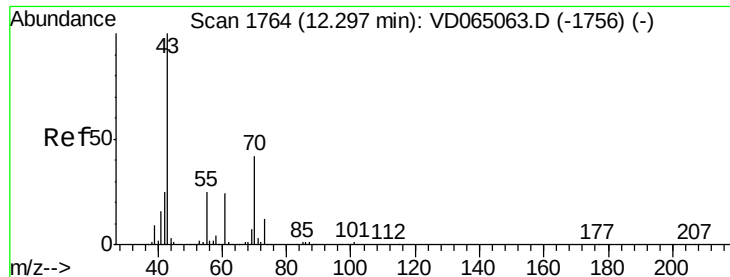
120 0.0 13.3 39.9#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

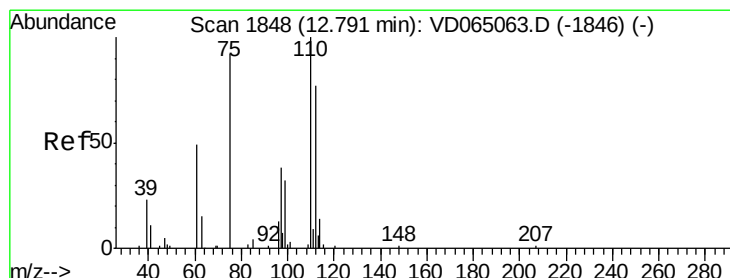
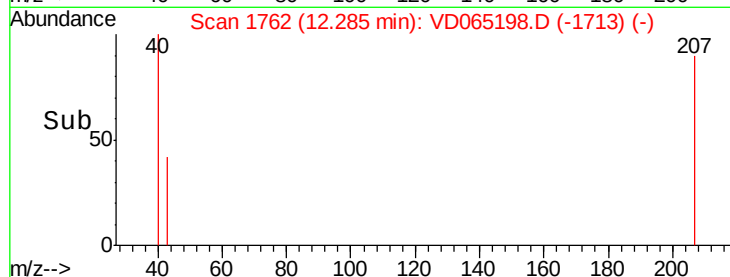
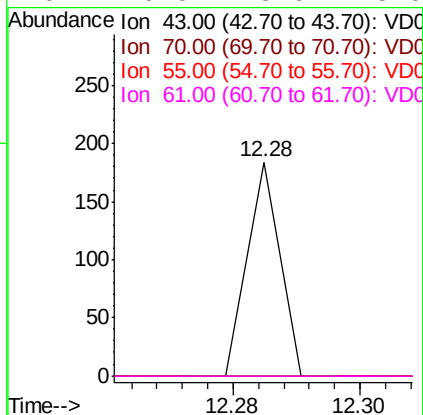
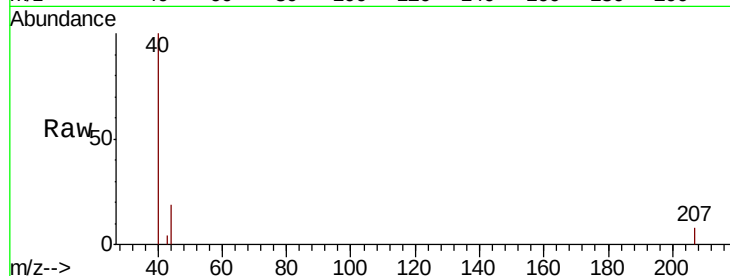




#74
N-amvl acetate
Concen: 1.800 ug/l
RT: 12.28 min Scan# 1762
Delta R.T. -0.01 min
Lab File: VD065198.D
Acq: 17 Feb 2020 15:57

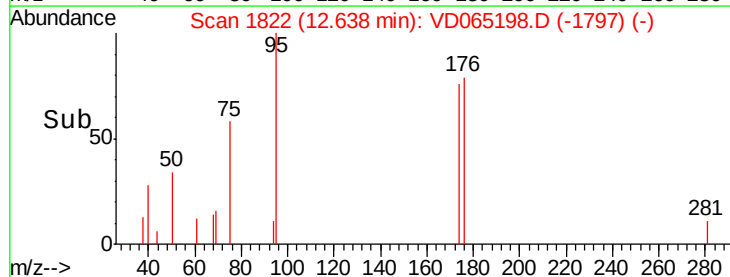
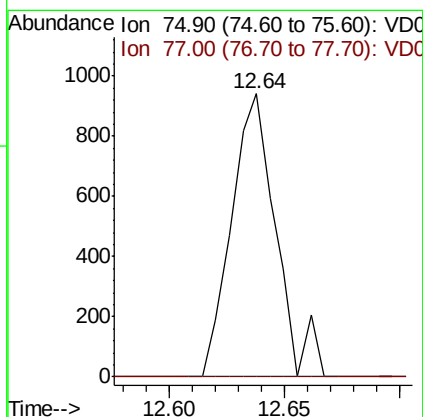
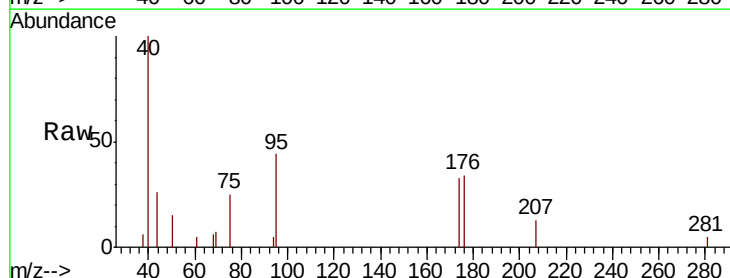
Instrument :
MSVOA_D
ClientSampled :
SP-3

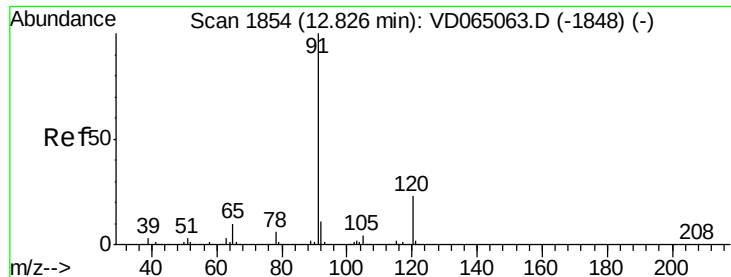
Tot Ion: 43 Resp: 65
Ion Ratio Lower Upper
43 100
70 0.0 33.5 50.3#
55 0.0 19.4 29.2#
61 0.0 18.6 28.0#



#76
1,2,3-Trichloropropane
Concen: 68.851 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.15 min
Lab File: VD065198.D
Acq: 17 Feb 2020 15:57

Tgt Ion: 75 Resp: 1262
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0





#78

n-propylbenzene

Concen: 2.297 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VD065198.D

Acq: 17 Feb 2020 15:57

Instrument :

MSVOA_D

ClientSampled :

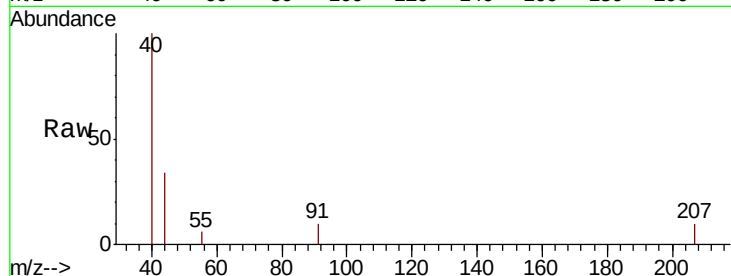
SP-3

Tot Ion: 91 Resp: 447

Ion Ratio Lower Upper

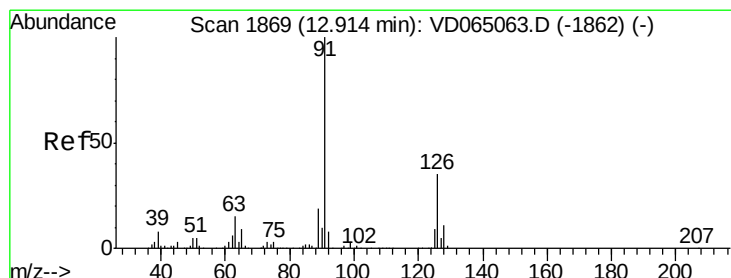
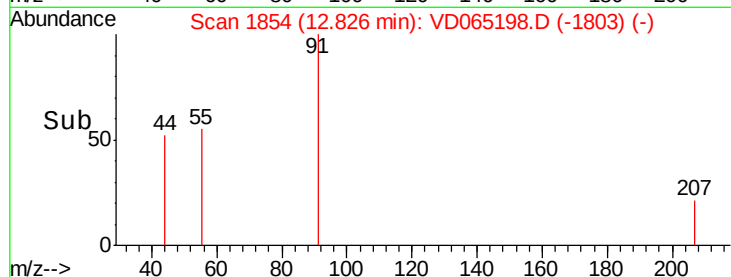
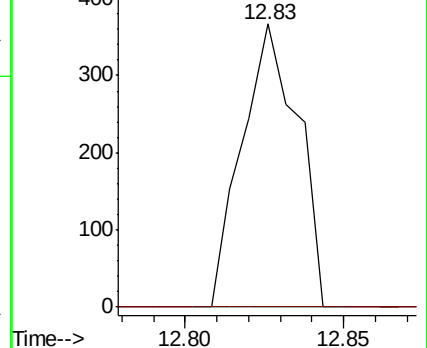
91 100

120 0.0 11.8 35.3#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 4.121 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. -0.09 min

Lab File: VD065198.D

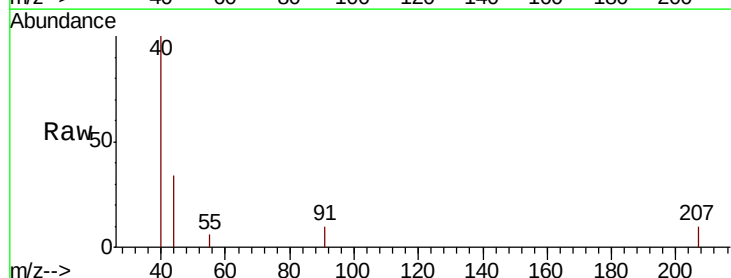
Acq: 17 Feb 2020 15:57

Tgt Ion: 91 Resp: 447

Ion Ratio Lower Upper

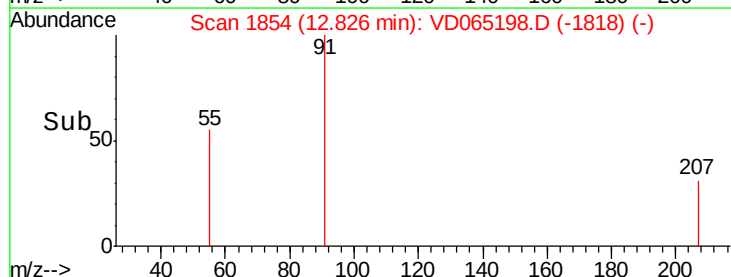
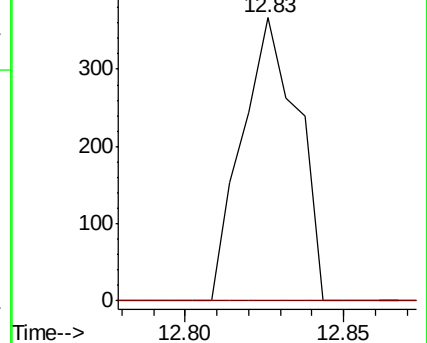
91 100

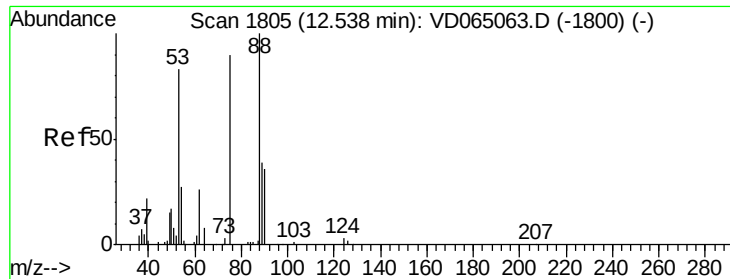
126 0.0 17.4 52.3#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 137.696 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD065198.D

Acq: 17 Feb 2020 15:57

Instrument :

MSVOA_D

ClientSampleId :

SP-3

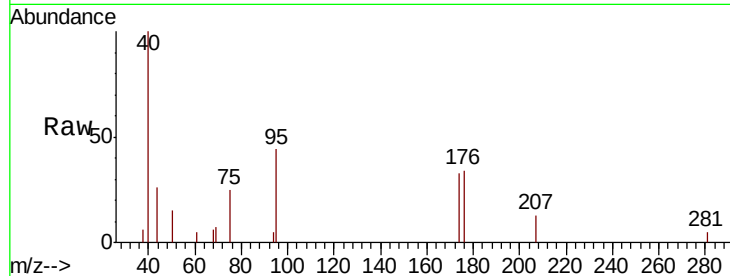
Tot Ion: 75 Resp: 1262

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

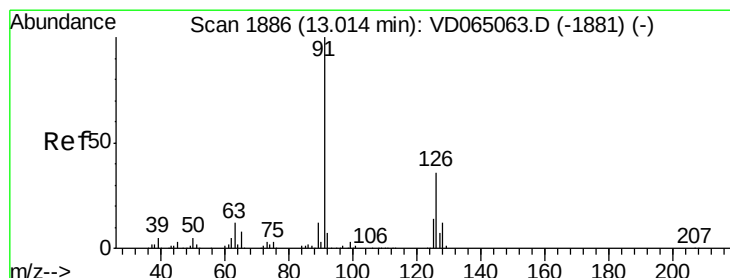
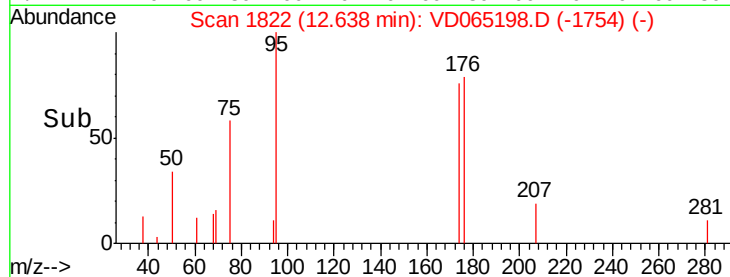
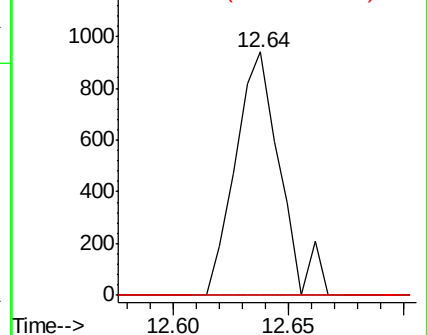
89 0.0 37.0 55.4#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC



#82

4-Chlorotoluene

Concen: 1.615 ug/l

RT: 13.01 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VD065198.D

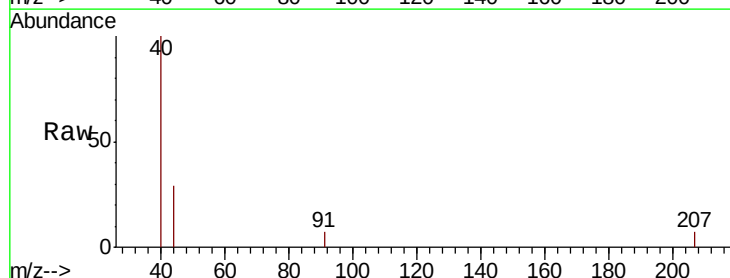
Acq: 17 Feb 2020 15:57

Tgt Ion: 91 Resp: 184

Ion Ratio Lower Upper

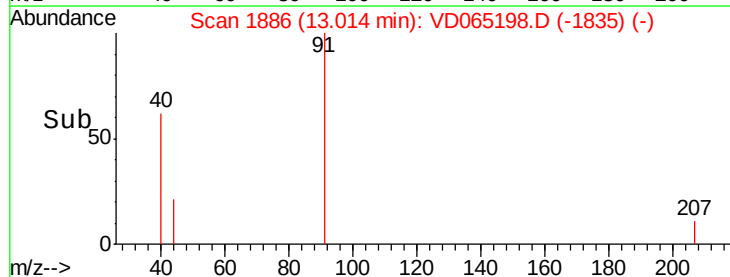
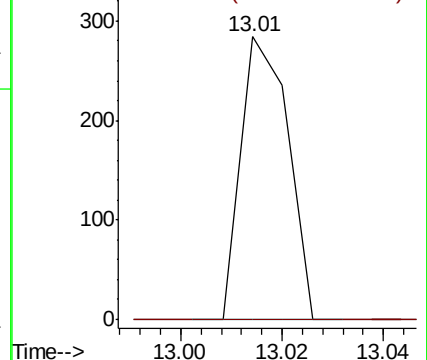
91 100

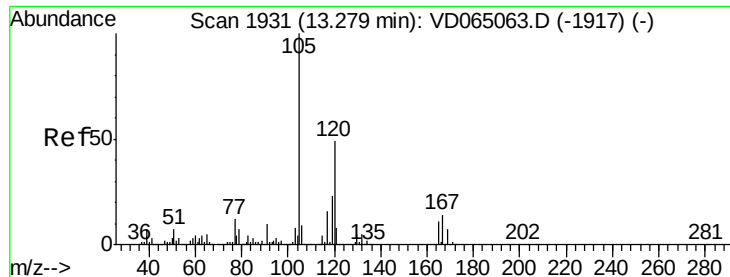
126 0.0 17.5 52.5#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.90 (125.60 to 126.60): V

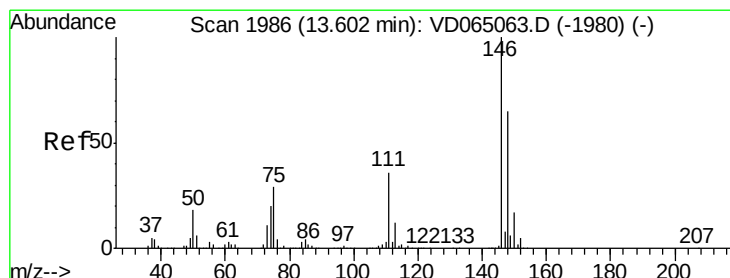
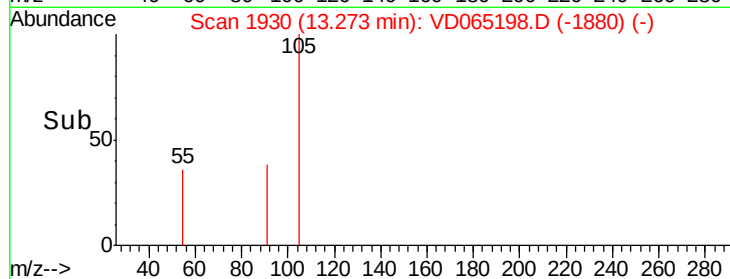
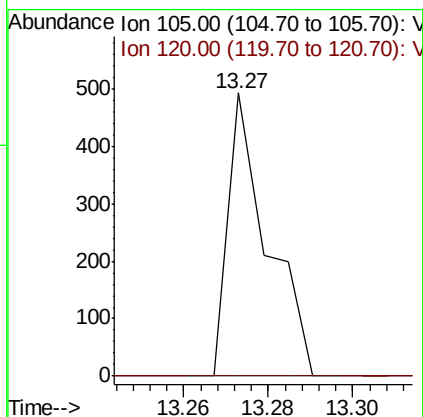
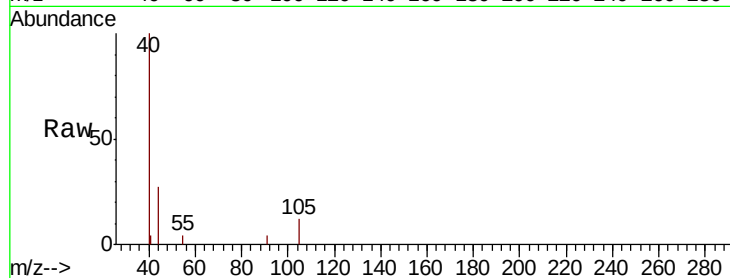




#84
 1,2,4-Trimethylbenzene
 Concen: 2.364 ug/l
 RT: 13.27 min Scan# 1930
 Delta R.T. -0.01 min
 Lab File: VD065198.D
 Acq: 17 Feb 2020 15:57

Instrument :
 MSVOA_D
 ClientSampled :
 SP-3

Tot Ion:105 Resp: 319
 Ion Ratio Lower Upper
 105 100
 120 0.0 23.5 70.5#



#88
 1,4-Dichlorobenzene
 Concen: 1.729 ug/l
 RT: 13.61 min Scan# 1987
 Delta R.T. 0.01 min
 Lab File: VD065198.D
 Acq: 17 Feb 2020 15:57

Tgt Ion:146 Resp: 129
 Ion Ratio Lower Upper
 146 100
 111 0.0 18.5 55.5#
 148 0.0 32.7 98.1#

