

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032720\
 Data File : VD065542.D
 Acq On : 27 Mar 2020 14:17
 Operator : VA/SY
 Sample : L2040-13
 Misc : 8.13G/5.00ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Mar 30 06:34:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032620S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 27 01:47:48 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	452755	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	827700	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	788428	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	368024	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	227253	60.30	ug/l	0.00
Spiked Amount			Recovery	=	120.60%	
35) Dibromofluoromethane	7.92	113	271778	53.20	ug/l	0.00
Spiked Amount			Recovery	=	106.40%	
50) Toluene-d8	10.34	98	1003431	52.32	ug/l	0.00
Spiked Amount			Recovery	=	104.64%	
62) 4-Bromofluorobenzene	12.64	95	310548	51.01	ug/l	0.00
Spiked Amount			Recovery	=	102.02%	

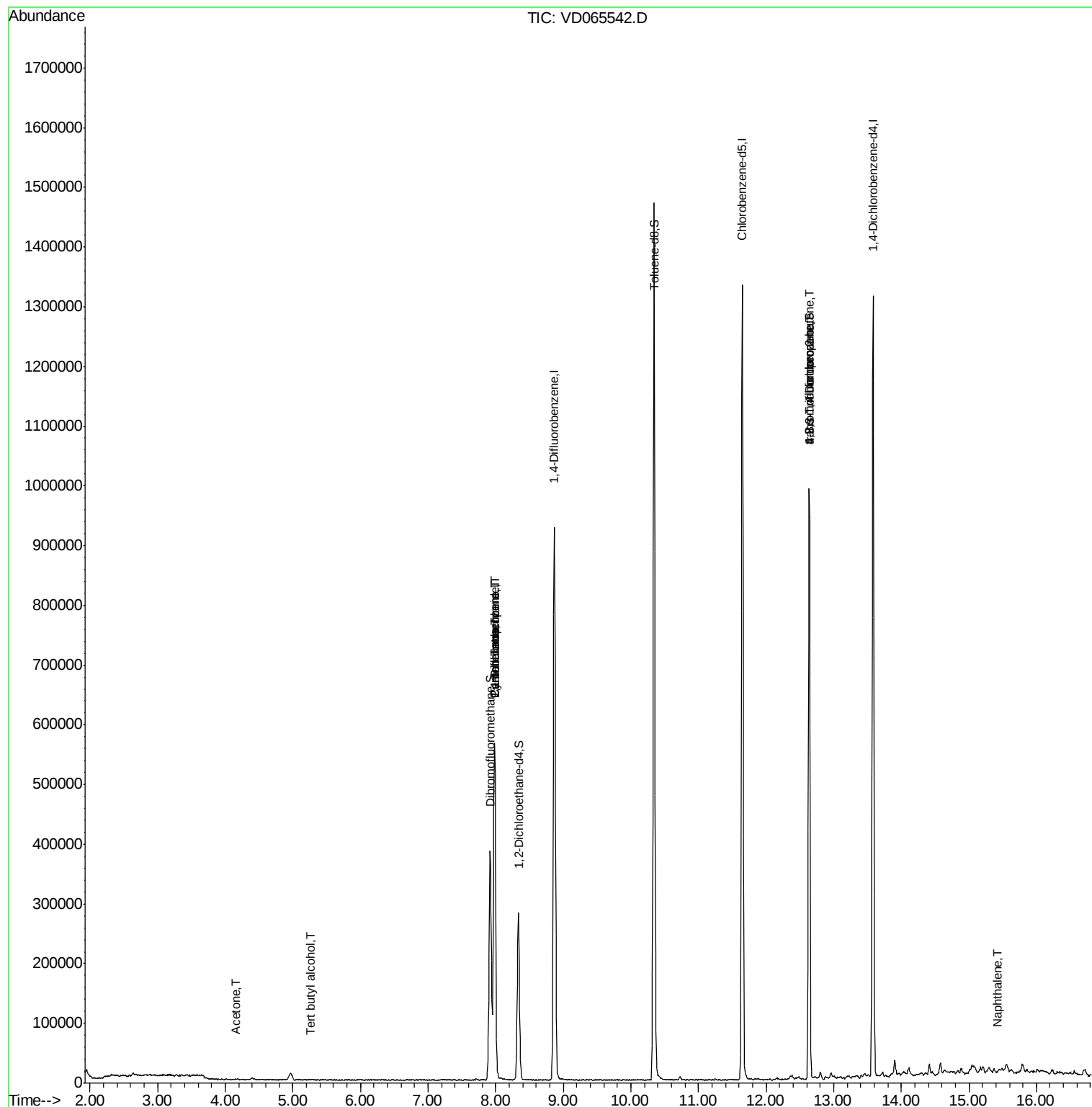
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	351	Below Cal	#	42
3) Chloromethane	2.22	50	674	Below Cal		93
5) Bromomethane	2.79	94	433	Below Cal		81
11) Tert butyl alcohol	5.26	59	224	1.057	ug/l #	56
16) Acetone	4.17	43	793	1.115	ug/l #	40
20) Methylene Chloride	4.97	84	9737	Below Cal		96
31) Cyclohexane	7.98	56	8850	1.249	ug/l #	1
36) 1,1-Dichloropropene	7.98	75	31538	4.170	ug/l #	48
38) Carbon Tetrachloride	7.98	117	42428	5.327	ug/l #	18
76) 1,2,3-Trichloropropane	12.64	75	152828	54.014	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	152828	120.570	ug/l #	13
95) Naphthalene	15.42	128	1725	4.461	ug/l #	74

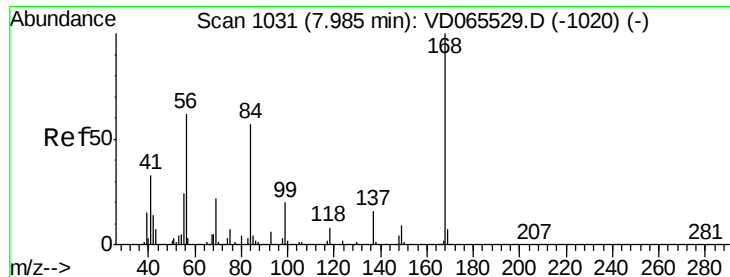
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD065542.D

Acq: 27 Mar 2020 14:17

Instrument :

MSVOA_D

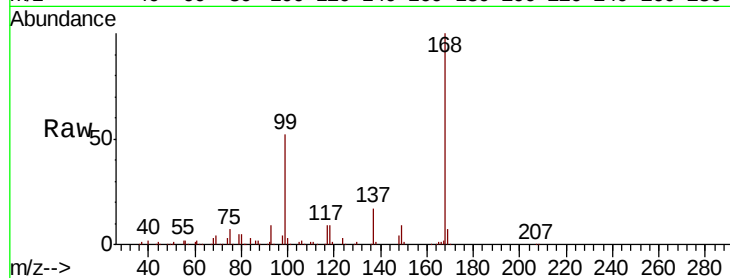
ClientSampled :

Tot Ion:168 Resp: 452755

Ion Ratio Lower Upper

168 100

99 51.7 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

200000

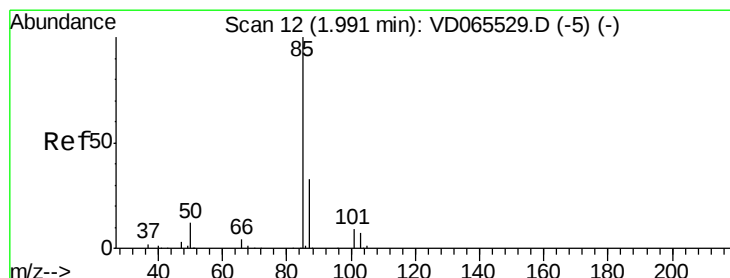
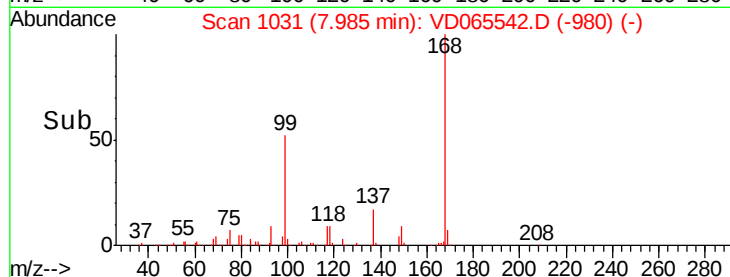
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD065542.D

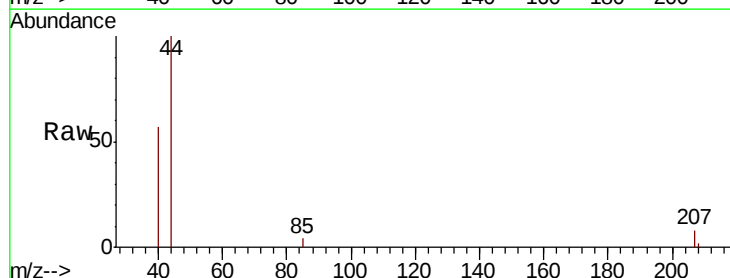
Acq: 27 Mar 2020 14:17

Tgt Ion: 85 Resp: 351

Ion Ratio Lower Upper

85 100

87 0.0 16.4 49.2#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

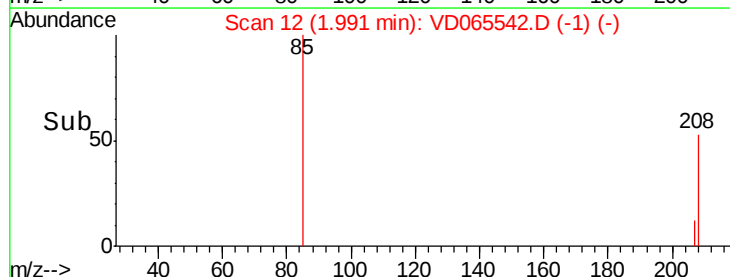
300

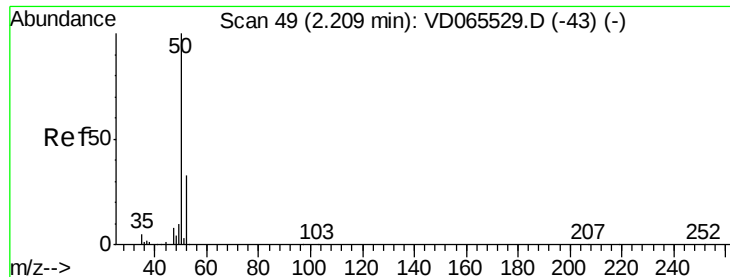
200

100

0

Time-->





#3

Chloromethane

Concen: Below Cal

RT: 2.22 min Scan# 51

Delta R.T. 0.01 min

Lab File: VD065542.D

Acq: 27 Mar 2020 14:17

Instrument :

MSVOA_D

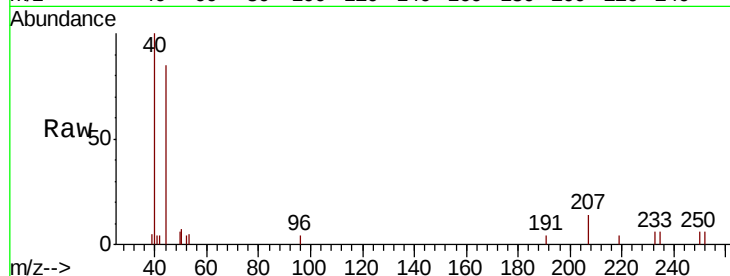
ClientSampled :

Tot Ion: 50 Resp: 674

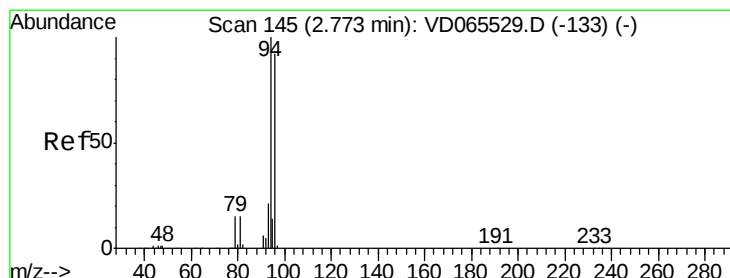
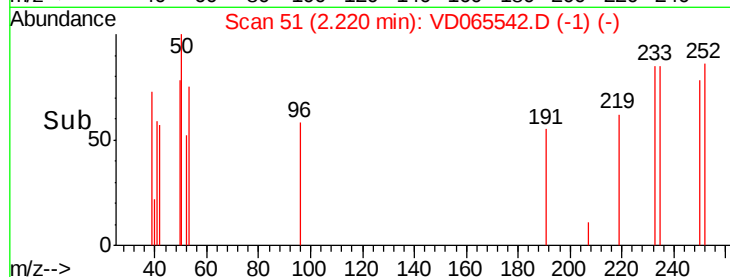
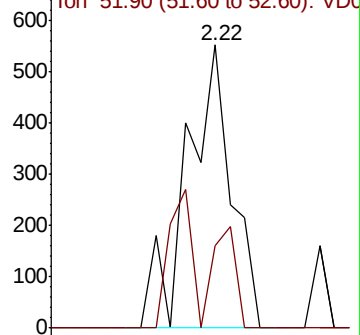
Ion Ratio Lower Upper

50 100

52 29.0 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VDC



#5

Bromomethane

Concen: Below Cal

RT: 2.79 min Scan# 148

Delta R.T. 0.02 min

Lab File: VD065542.D

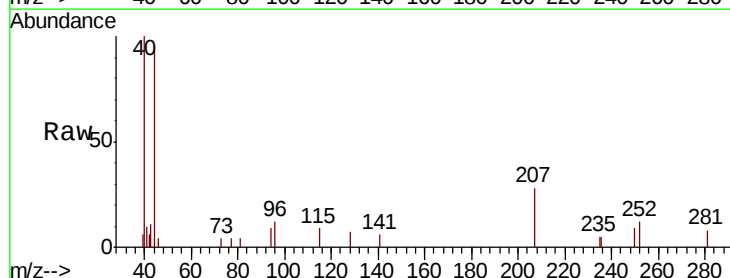
Acq: 27 Mar 2020 14:17

Tgt Ion: 94 Resp: 433

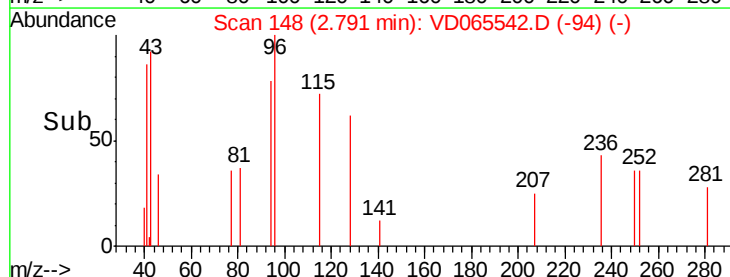
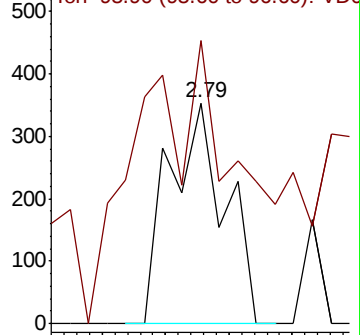
Ion Ratio Lower Upper

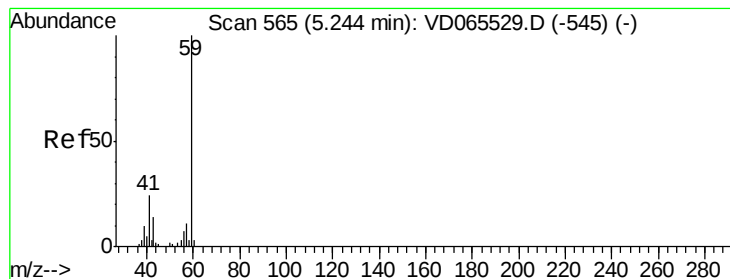
94 100

96 73.7 73.4 110.2



Abundance Ion 93.90 (93.60 to 94.60): VDC



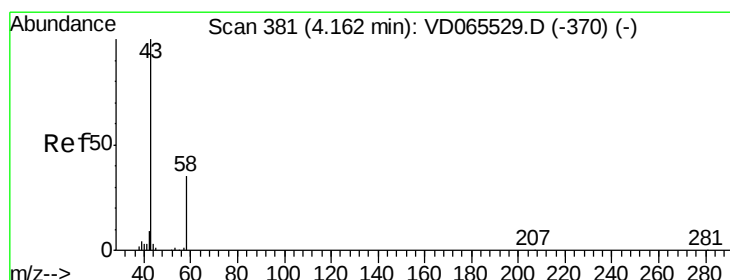
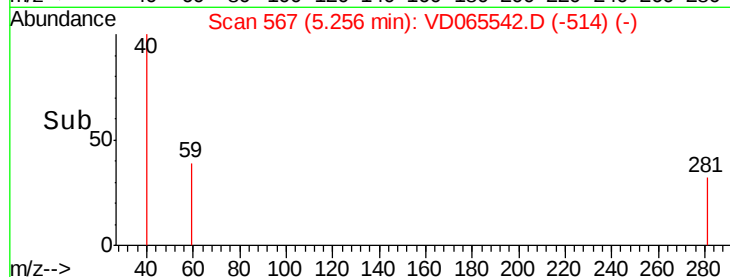
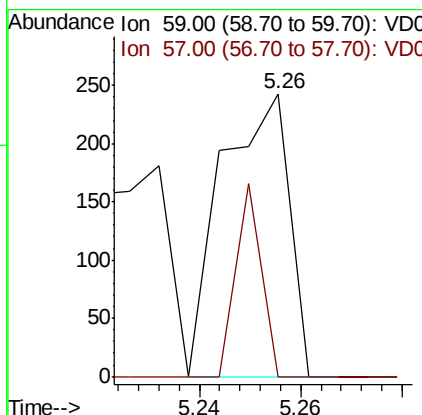
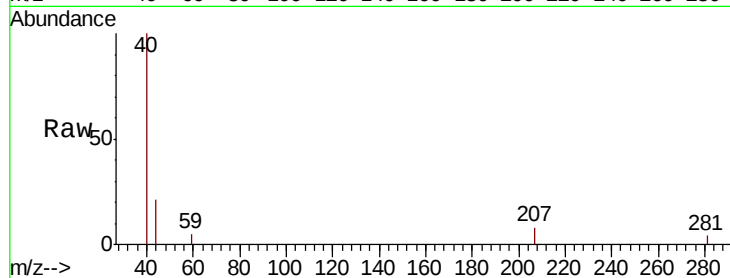


#11

Tert butyl alcohol
 Concen: 1.057 ug/l
 RT: 5.26 min Scan# 567
 Delta R.T. 0.01 min
 Lab File: VD065542.D
 Acq: 27 Mar 2020 14:17

Instrument :
 MSVOA_D
 ClientSampled :

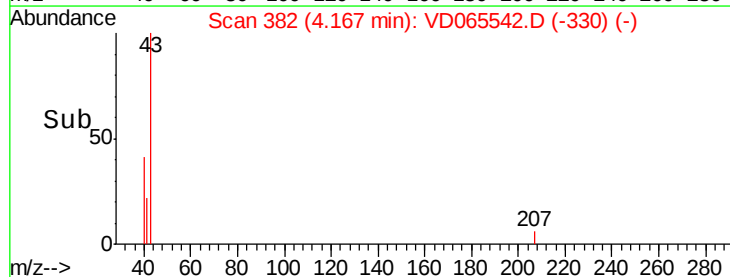
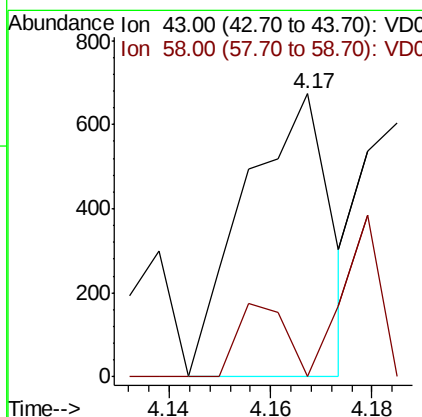
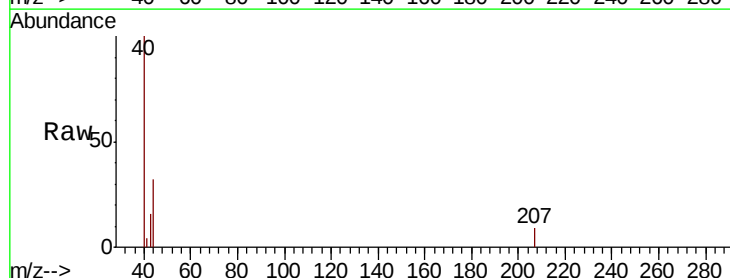
Tot Ion: 59 Resp: 224
 Ion Ratio Lower Upper
 59 100
 57 26.3 8.1 12.1#

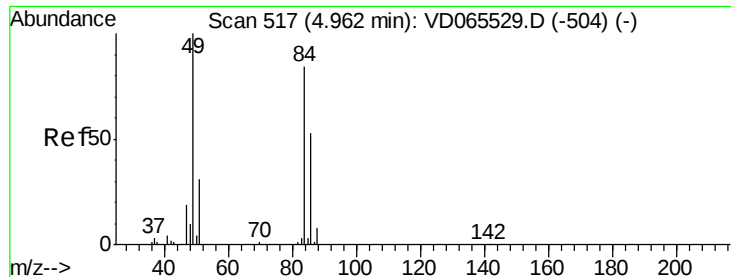


#16

Acetone
 Concen: 1.115 ug/l
 RT: 4.17 min Scan# 382
 Delta R.T. 0.01 min
 Lab File: VD065542.D
 Acq: 27 Mar 2020 14:17

Tgt Ion: 43 Resp: 793
 Ion Ratio Lower Upper
 43 100
 58 0.0 27.9 41.9#

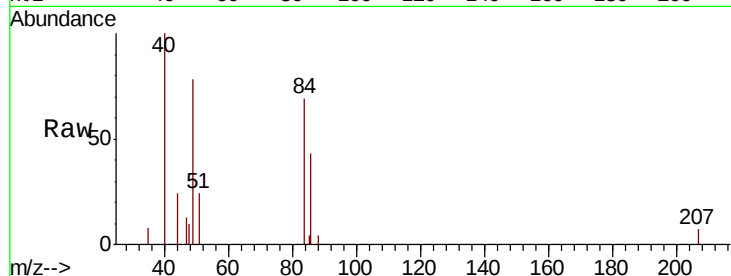




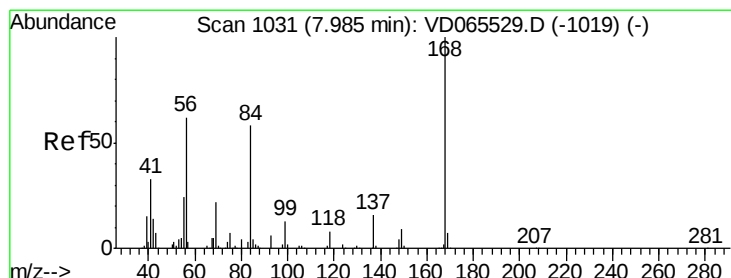
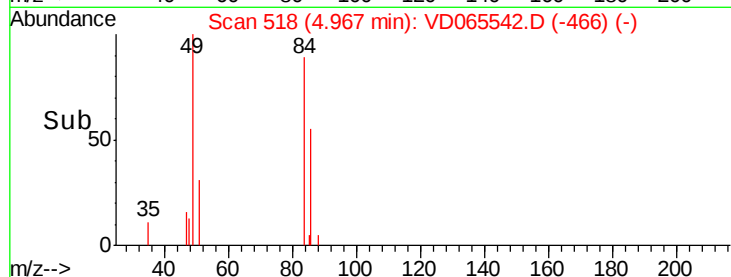
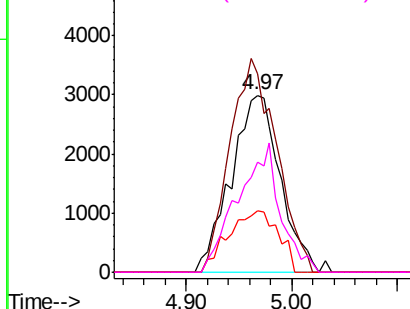
#20
Methylene Chloride
Concen: Below Cal
RT: 4.97 min Scan# 518
Delta R.T. 0.01 min
Lab File: VD065542.D
Acq: 27 Mar 2020 14:17

Instrument :
MSVOA_D
ClientSampleID :

Tot Ion: 84 Resp: 9737
Ion Ratio Lower Upper
84 100
49 112.3 95.6 143.4
51 35.0 29.4 44.2
86 62.2 50.6 76.0

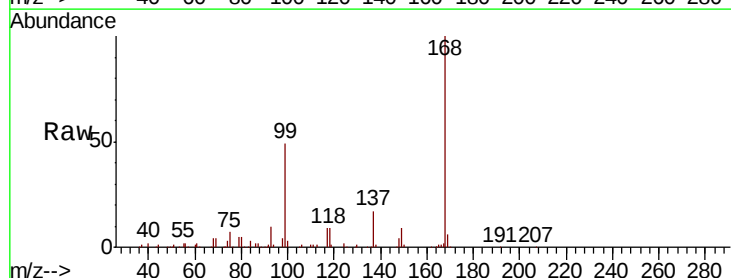


Abundance Ion 83.90 (83.60 to 84.60): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

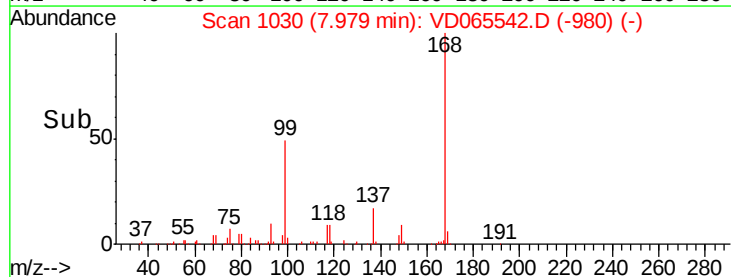
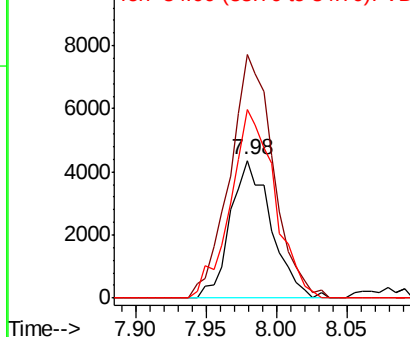


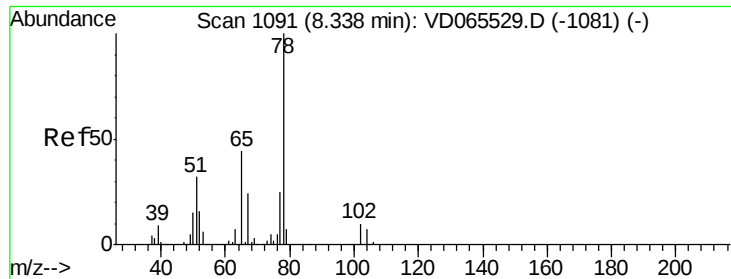
#31
Cyclohexane
Concen: 1.249 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD065542.D
Acq: 27 Mar 2020 14:17

Tgt Ion: 56 Resp: 8850
Ion Ratio Lower Upper
56 100
69 176.6 28.2 42.4#
84 136.3 73.4 110.0#



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

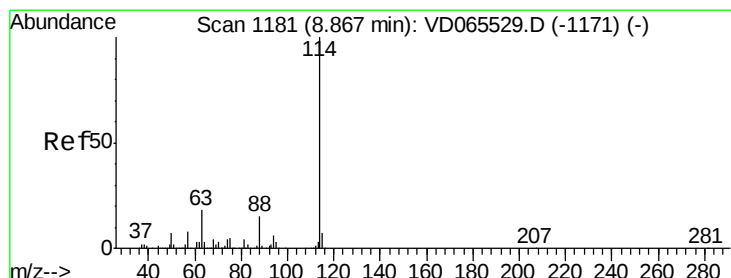
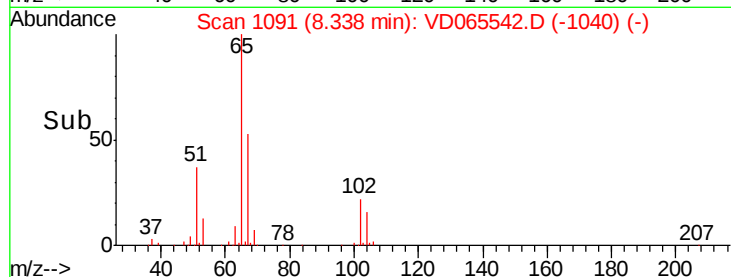
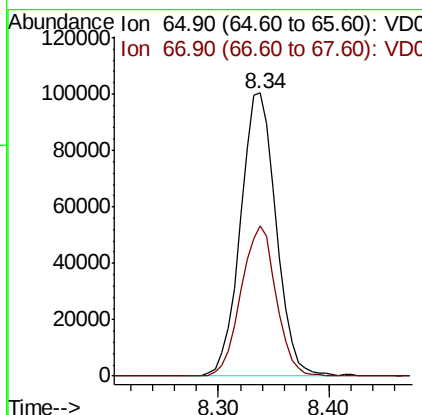
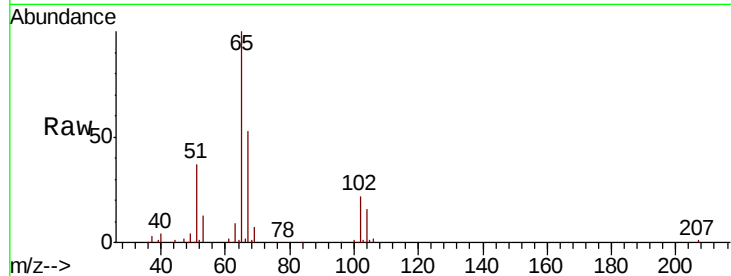




#33
 1,2-Dichloroethane-d4
 Concen: 60.297 ug/l
 RT: 8.34 min Scan# 1091
 Delta R.T. -0.00 min
 Lab File: VD065542.D
 Acq: 27 Mar 2020 14:17

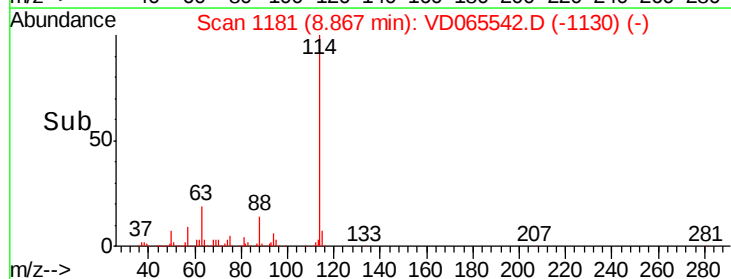
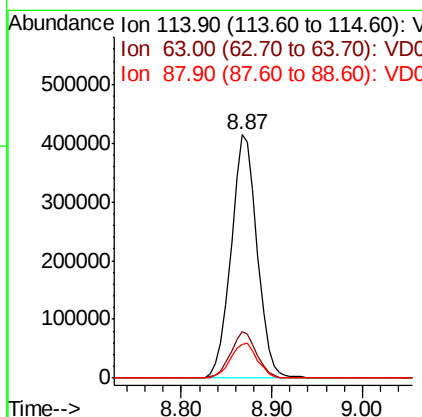
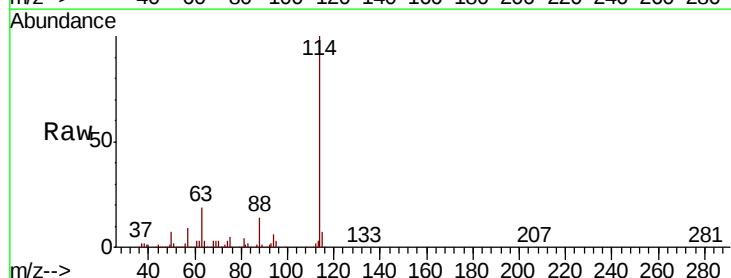
Instrument :
 MSVOA_D
 ClientSampleId :

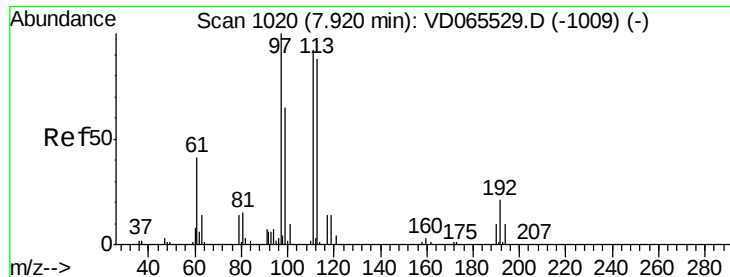
Tot Ion: 65 Resp: 227253
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD065542.D
 Acq: 27 Mar 2020 14:17

Tgt Ion: 114 Resp: 827700
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 37.0
 88 14.0 0.0 30.4

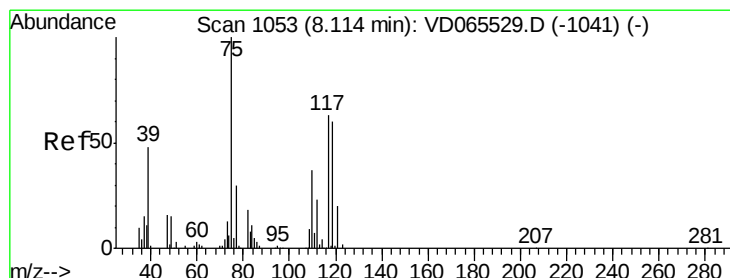
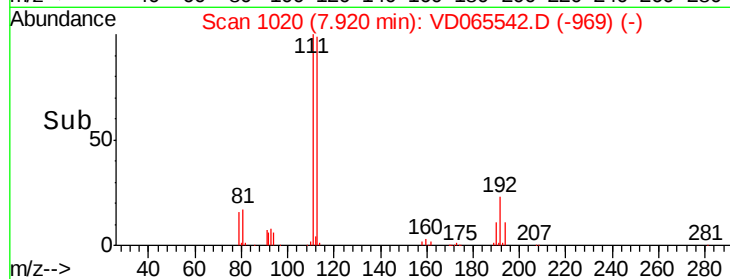
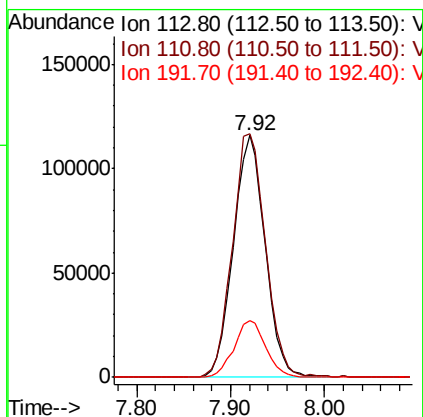
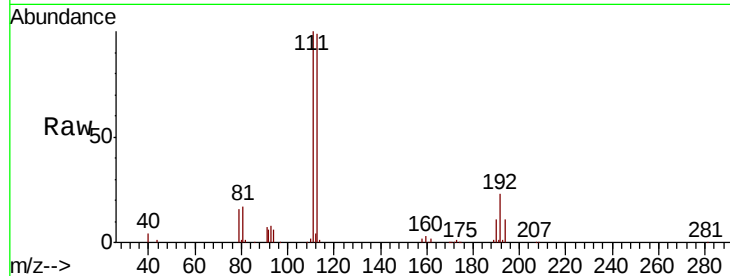




#35
 Dibromofluoromethane
 Concen: 53.197 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. -0.00 min
 Lab File: VD065542.D
 Acq: 27 Mar 2020 14:17

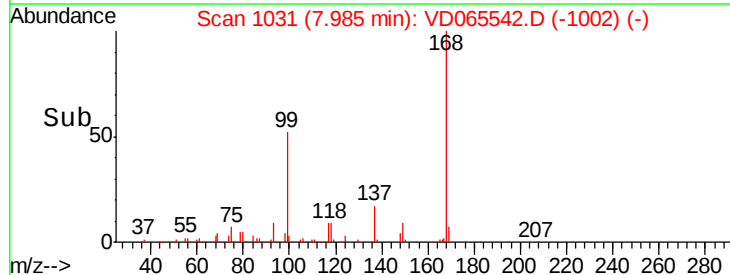
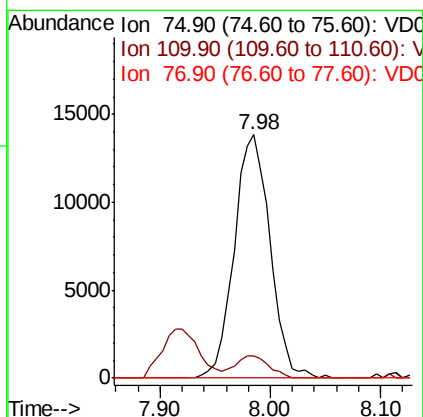
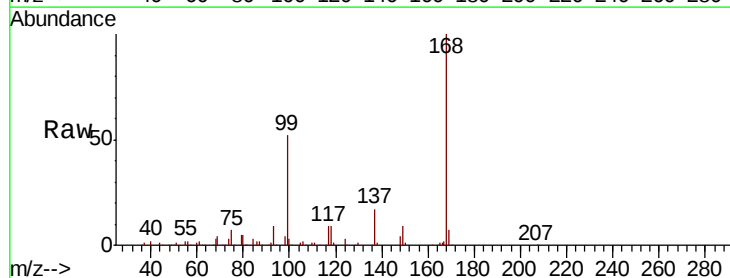
Instrument :
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 ClientSampleId :

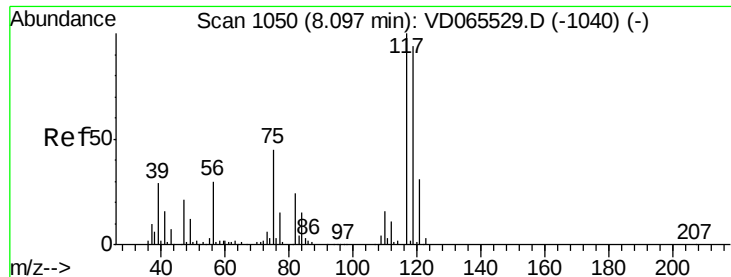
Tot Ion	Ratio	Lower	Upper
113	100		
111	105.0	83.3	124.9
192	23.2	18.5	27.7



#36
 1,1-Dichloropropene
 Concen: 4.170 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD065542.D
 Acq: 27 Mar 2020 14:17

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.7	18.8	56.4#
77	0.0	25.1	37.7#

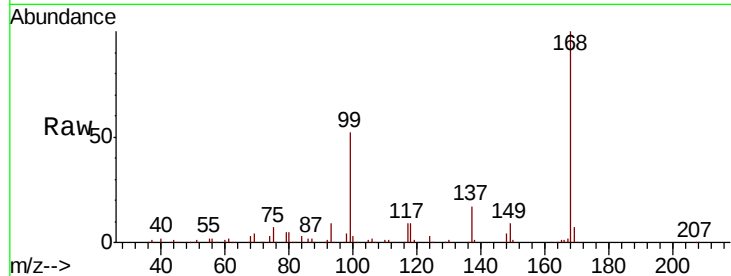




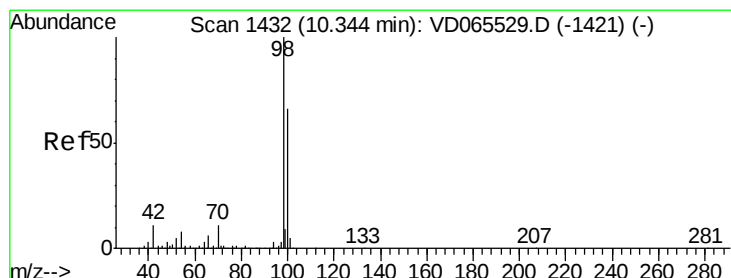
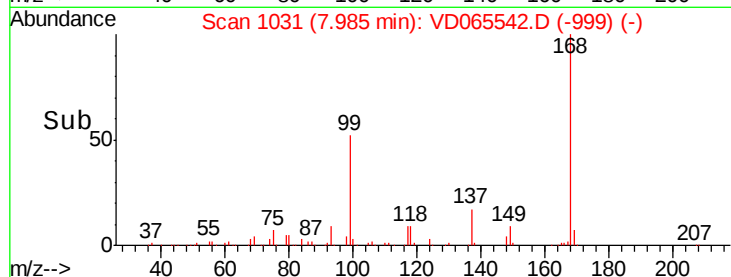
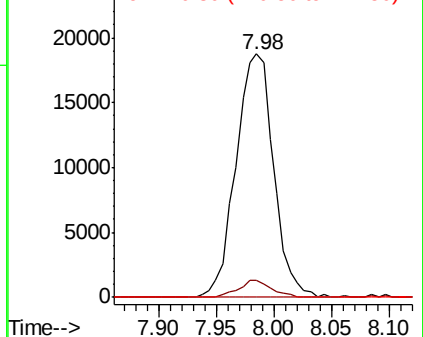
#38
Carbon Tetrachloride
Concen: 5.327 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.11 min
Lab File: VD065542.D
Acq: 27 Mar 2020 14:17

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 42428
Ion Ratio Lower Upper
117 100
119 7.0 75.2 112.8#
121 0.0 24.5 36.7#

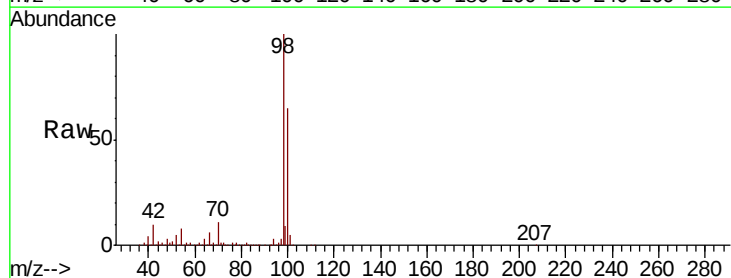


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

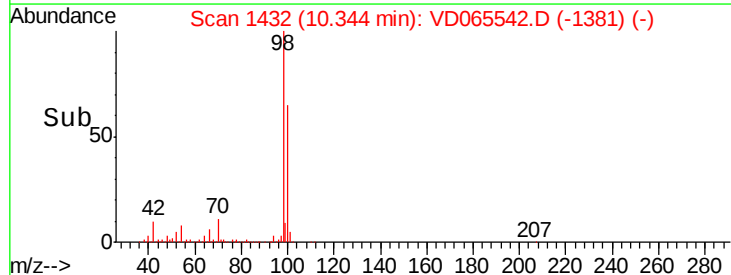
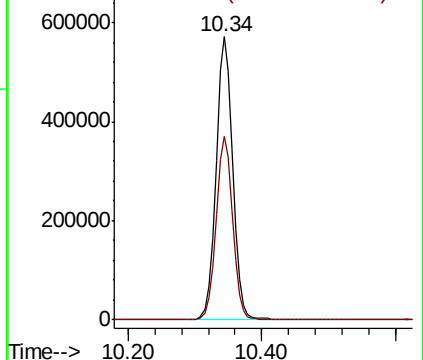


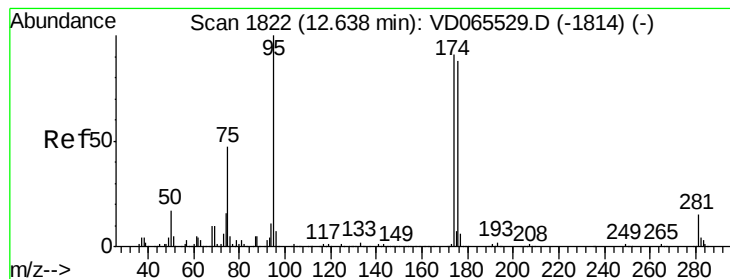
#50
Toluene-d8
Concen: 52.315 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD065542.D
Acq: 27 Mar 2020 14:17

Tgt Ion: 98 Resp: 1003431
Ion Ratio Lower Upper
98 100
100 64.7 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): V
Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 51.013 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD065542.D

Acq: 27 Mar 2020 14:17

Instrument :

MSVOA_D

ClientSampleId :

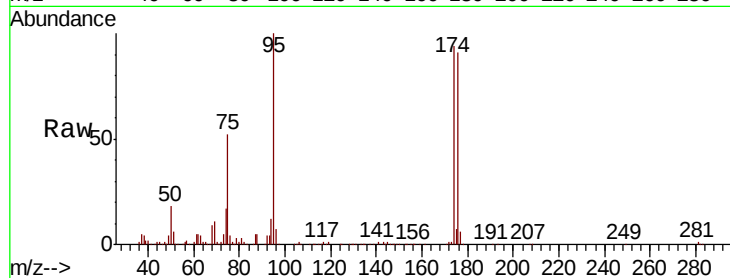
Tot Ion: 95 Resp: 310548

Ion Ratio Lower Upper

95 100

174 93.5 0.0 183.8

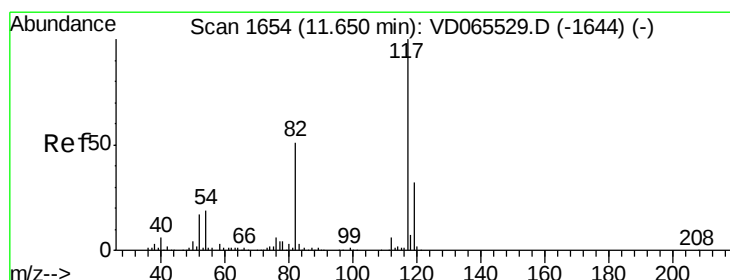
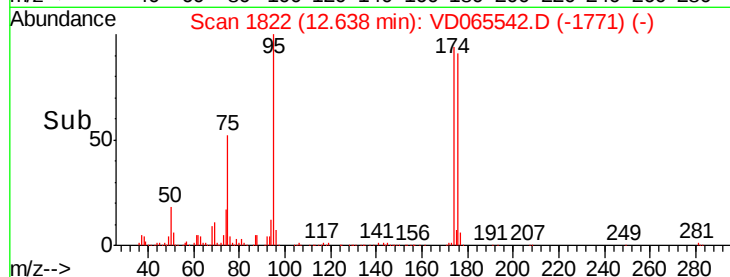
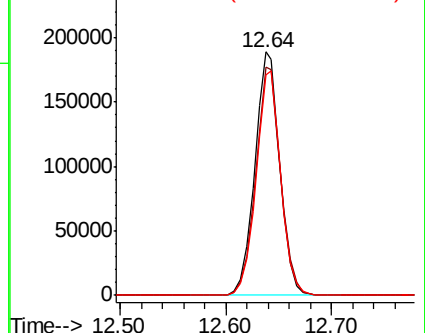
176 90.8 0.0 178.2



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VD065542.D

Acq: 27 Mar 2020 14:17

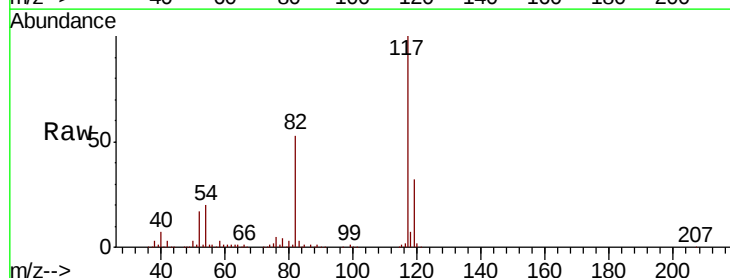
Tgt Ion: 117 Resp: 788428

Ion Ratio Lower Upper

117 100

82 52.5 41.0 61.6

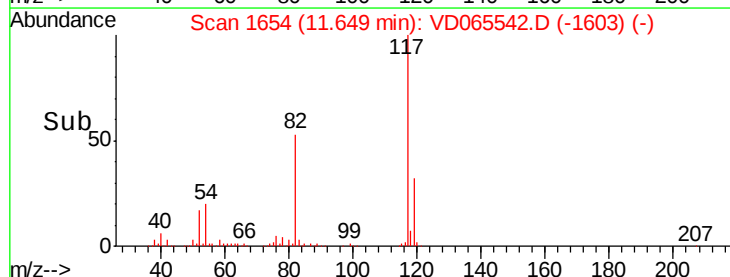
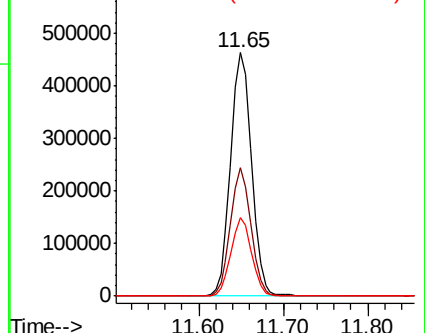
119 32.2 25.5 38.3

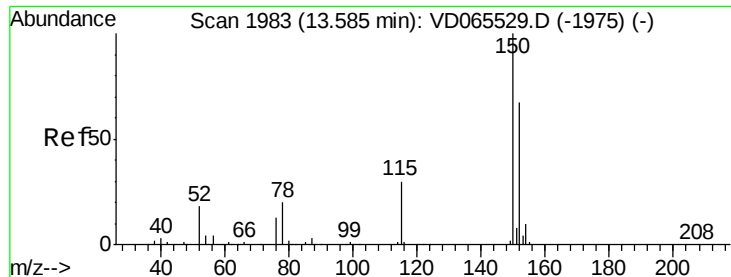


Abundance Ion 116.90 (116.60 to 117.60): V

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: VD065542.D

Acq: 27 Mar 2020 14:17

Instrument :

MSVOA_D

ClientSampled :

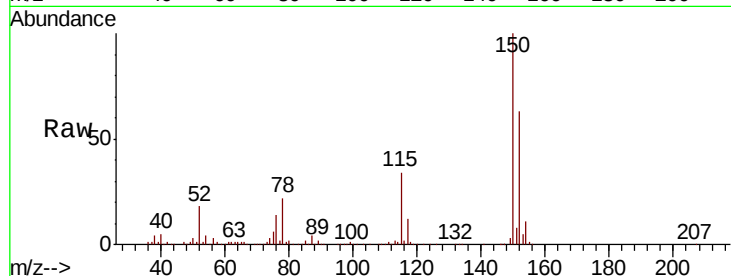
Tot Ion:152 Resp: 368024

Ion Ratio Lower Upper

152 100

115 55.4 27.2 81.6

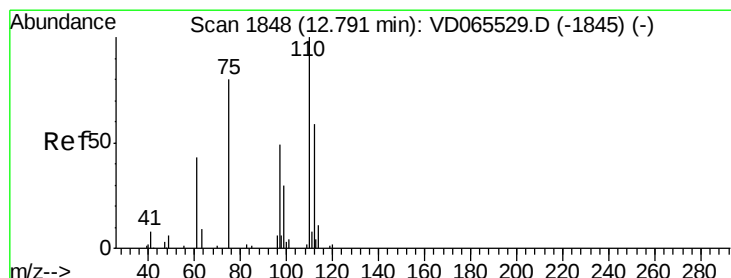
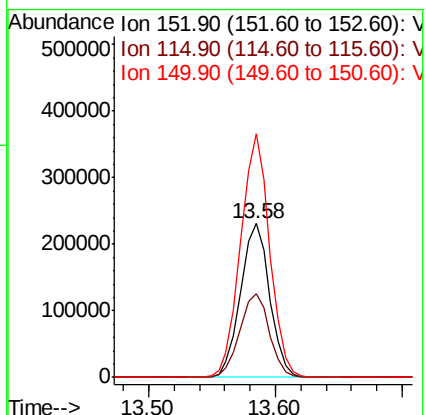
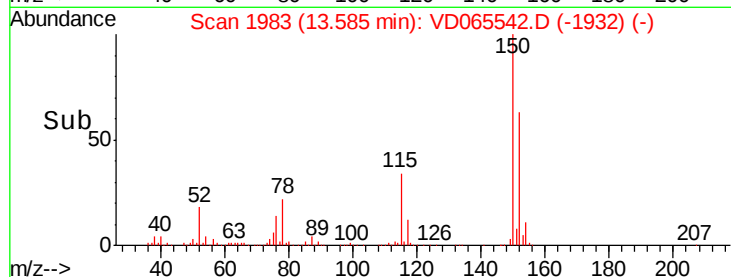
150 157.2 0.0 340.2



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



#76

1,2,3-Trichloropropane

Concen: 54.014 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065542.D

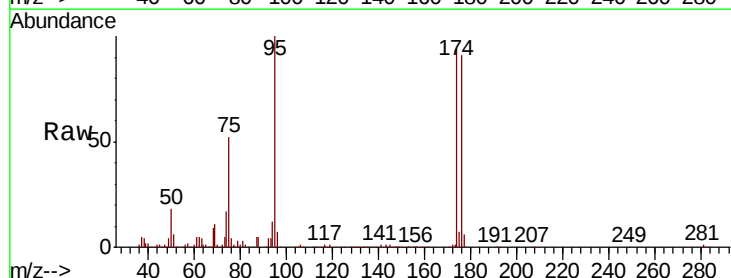
Acq: 27 Mar 2020 14:17

Tgt Ion: 75 Resp: 152828

Ion Ratio Lower Upper

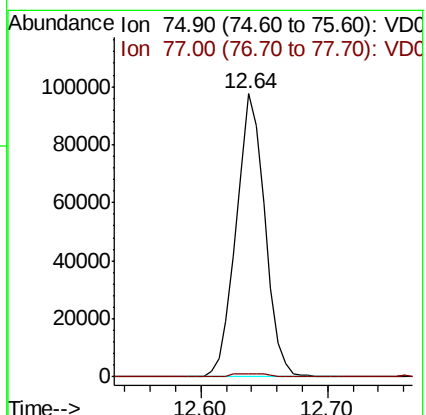
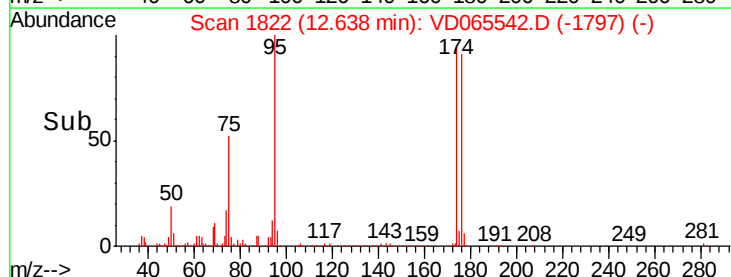
75 100

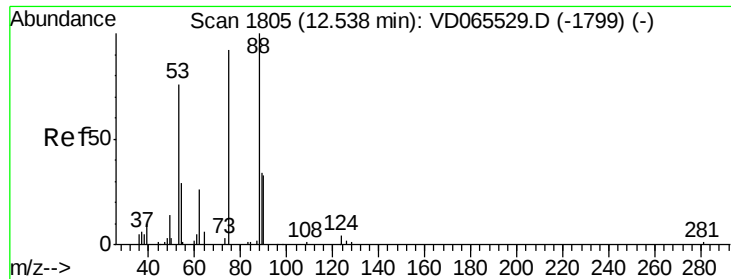
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 120.570 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD065542.D

Acq: 27 Mar 2020 14:17

Instrument :

MSVOA_D

ClientSampleId :

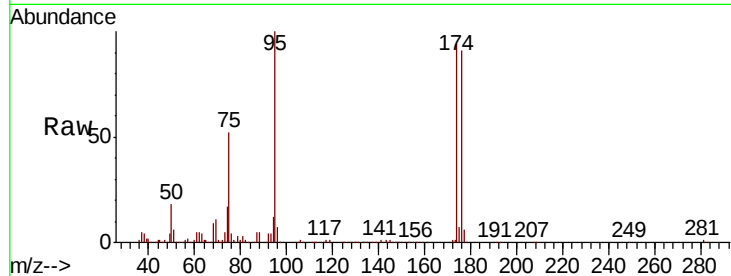
Tot Ion: 75 Resp: 152828

Ion Ratio Lower Upper

75 100

53 0.2 72.4 108.6#

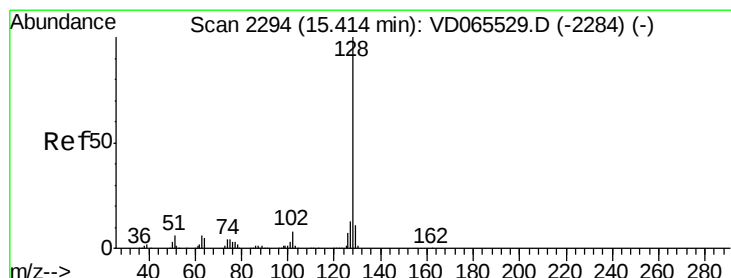
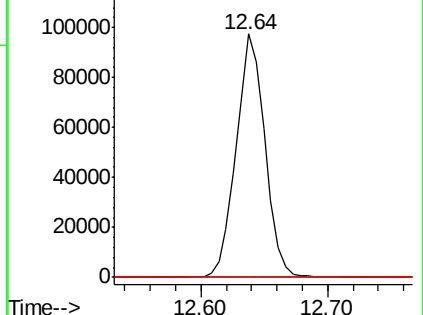
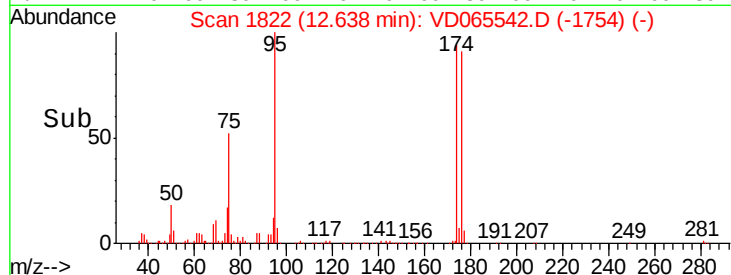
89 0.0 36.9 55.3#



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



#95

Naphthalene

Concen: 4.461 ug/l

RT: 15.42 min Scan# 2295

Delta R.T. 0.01 min

Lab File: VD065542.D

Acq: 27 Mar 2020 14:17

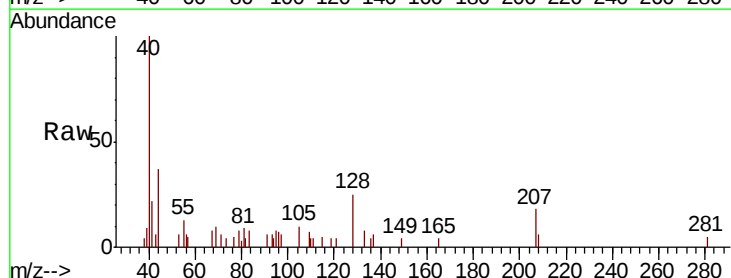
Tgt Ion: 128 Resp: 1725

Ion Ratio Lower Upper

128 100

127 3.4 10.4 15.6#

129 0.0 8.7 13.1#



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

