

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032720\
 Data File : VD065538.D
 Acq On : 27 Mar 2020 12:23
 Operator : VA/SY
 Sample : L1761-11
 Misc : 6.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Mar 30 06:33:12 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	500074	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	881244	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	837428	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	443959	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	270109	64.89	ug/l	0.00
Spiked Amount			Recovery	=	129.78%	
35) Dibromofluoromethane	7.92	113	297026	54.61	ug/l	0.00
Spiked Amount			Recovery	=	109.22%	
50) Toluene-d8	10.34	98	1040904	50.97	ug/l	0.00
Spiked Amount			Recovery	=	101.94%	
62) 4-Bromofluorobenzene	12.64	95	361505	55.78	ug/l	0.00
Spiked Amount			Recovery	=	111.56%	

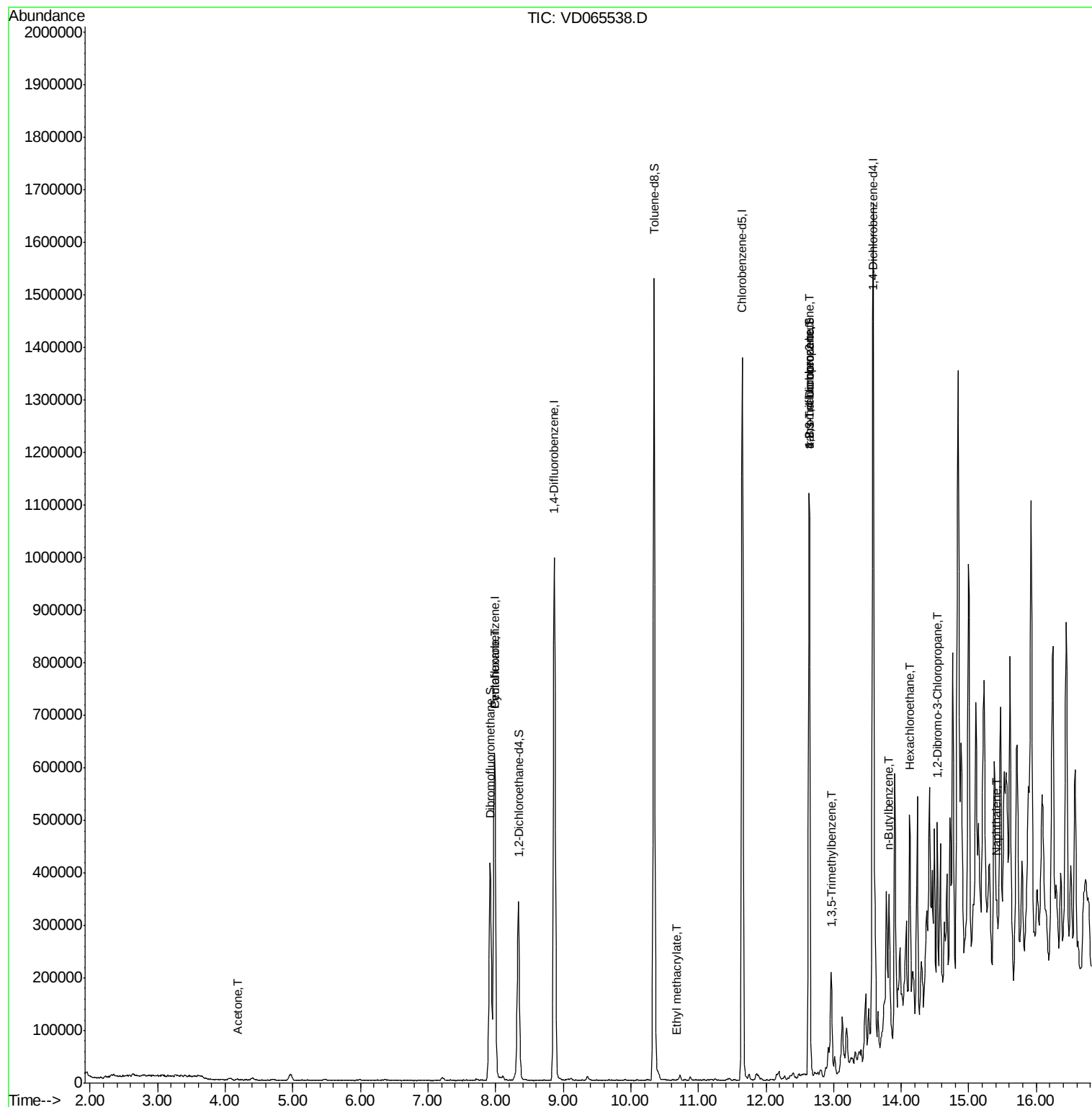
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	1306	Below Cal		81
3) Chloromethane	2.21	50	1980	Below Cal		96
5) Bromomethane	2.79	94	1608	Below Cal		84
16) Acetone	4.17	43	3603	4.587	ug/l	98
20) Methylene Chloride	4.97	84	9926	Below Cal		84
31) Cyclohexane	7.98	56	11019	1.408	ug/l #	1
56) Ethyl methacrylate	10.67	69	308	3.349	ug/l #	71
76) 1,2,3-Trichloropropane	12.64	75	170817	50.046	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.97	105	64378	2.849	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.64	75	170817	111.712	ug/l #	13
89) n-Butylbenzene	13.82	91	36521	1.611	ug/l #	1
90) Hexachloroethane	14.13	117	17813	3.404	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	14.53	75	1539	2.157	ug/l #	11
95) Naphthalene	15.41	128	19375	5.613	ug/l #	69

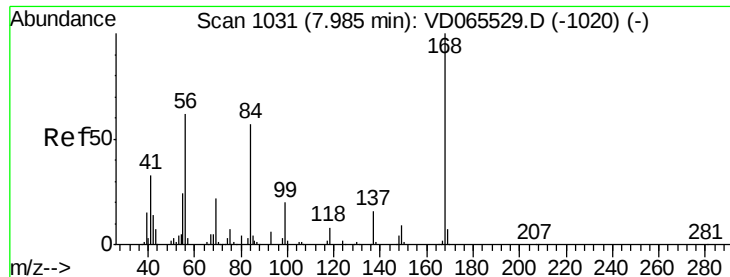
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD065538.D

Acq: 27 Mar 2020 12:23

Instrument :

MSVOA_D

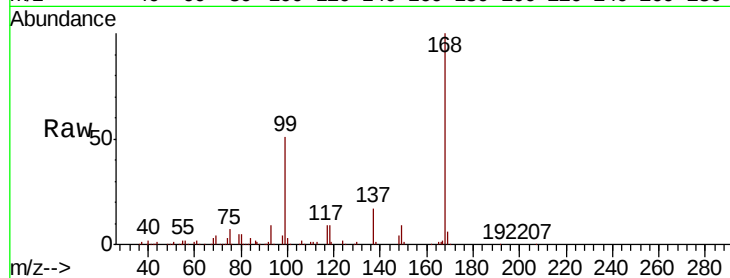
ClientSampleId :

Tot Ion:168 Resp: 500074

Ion Ratio Lower Upper

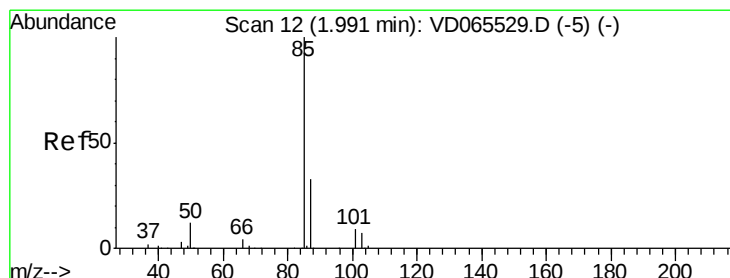
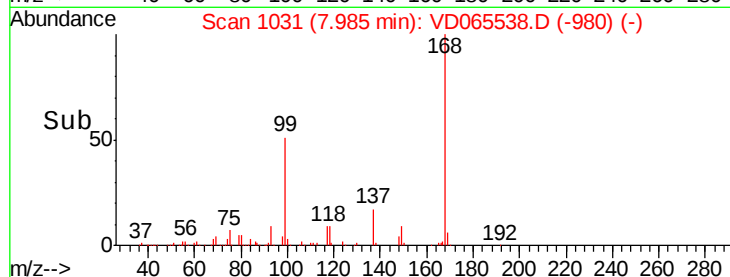
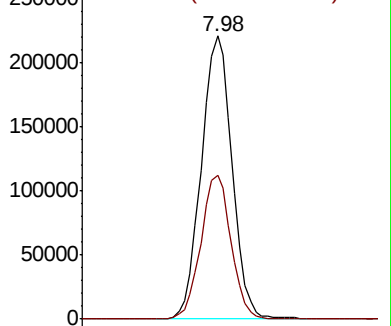
168 100

99 50.7 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD065538.D

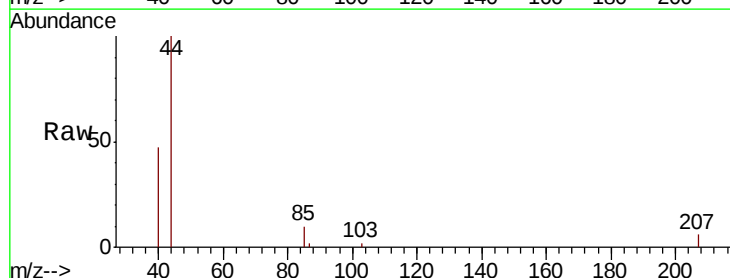
Acq: 27 Mar 2020 12:23

Tgt Ion: 85 Resp: 1306

Ion Ratio Lower Upper

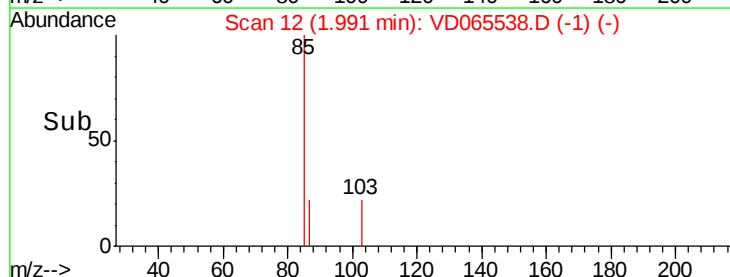
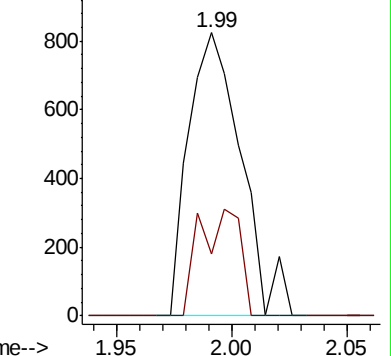
85 100

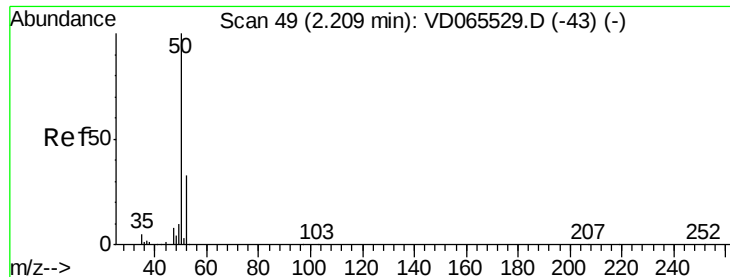
87 21.8 16.4 49.2



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: Below Cal

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD065538.D

Acq: 27 Mar 2020 12:23

Instrument :

MSVOA_D

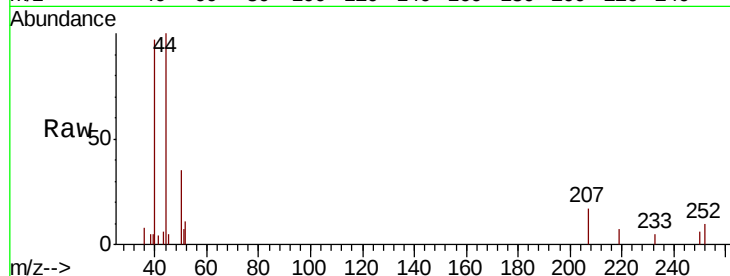
ClientSampled :

Tot Ion: 50 Resp: 1980

Ion Ratio Lower Upper

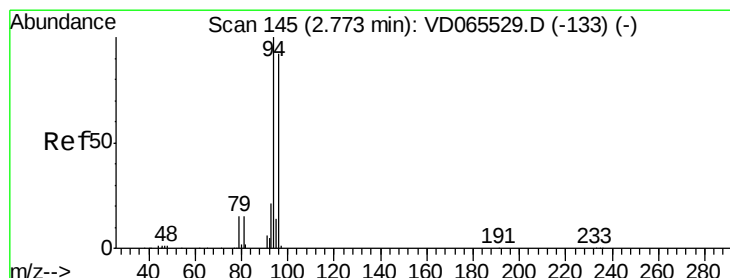
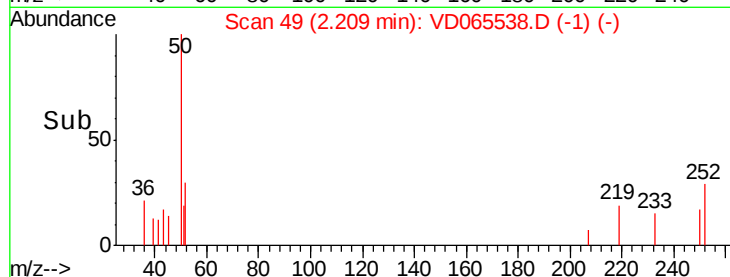
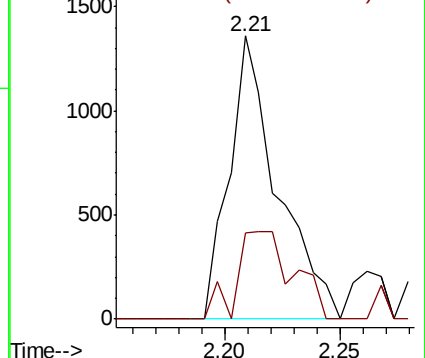
50 100

52 30.5 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#5

Bromomethane

Concen: Below Cal

RT: 2.79 min Scan# 148

Delta R.T. 0.02 min

Lab File: VD065538.D

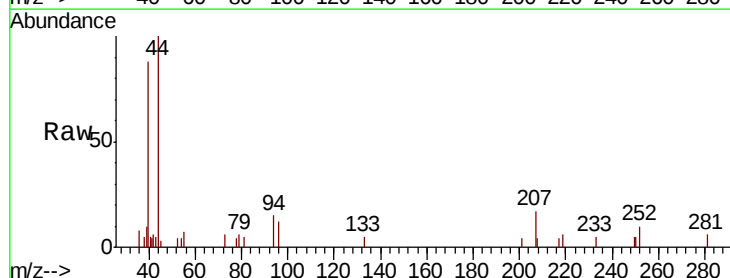
Acq: 27 Mar 2020 12:23

Tgt Ion: 94 Resp: 1608

Ion Ratio Lower Upper

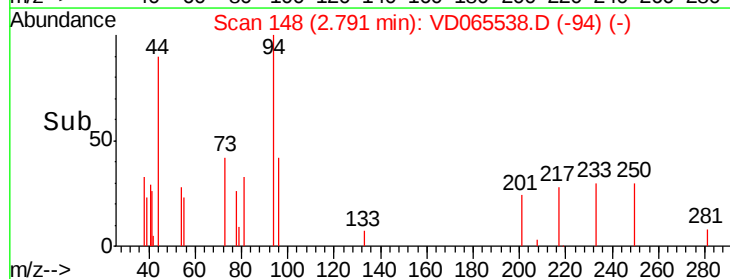
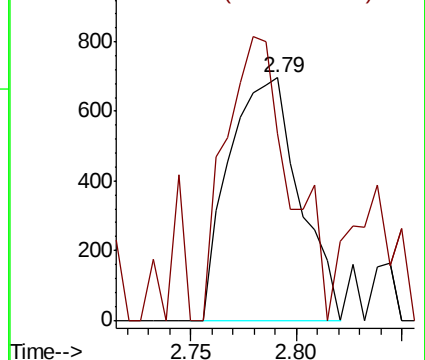
94 100

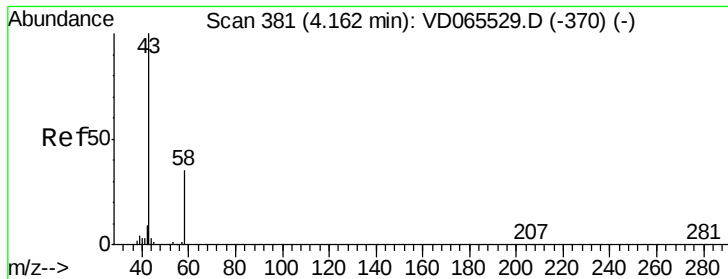
96 76.9 73.4 110.2



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#16

Acetone

Concen: 4.587 ug/l

RT: 4.17 min Scan# 383

Delta R.T. 0.01 min

Lab File: VD065538.D

Acq: 27 Mar 2020 12:23

Instrument :

MSVOA_D

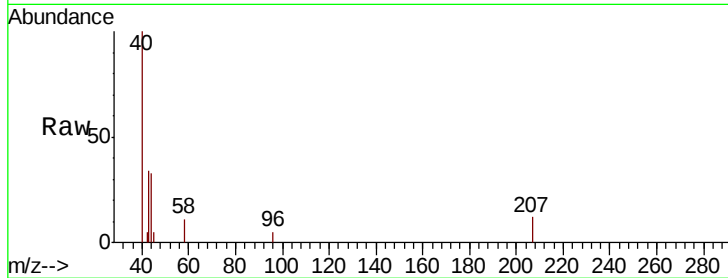
ClientSampled :

Tot Ion: 43 Resp: 3603

Ion Ratio Lower Upper

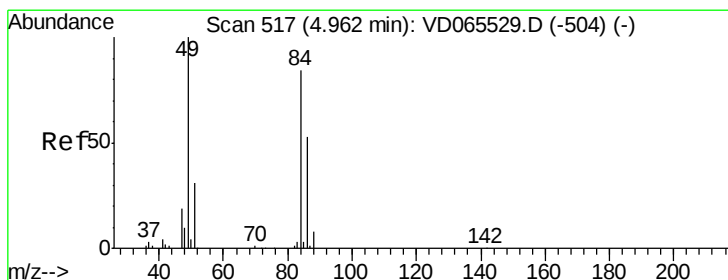
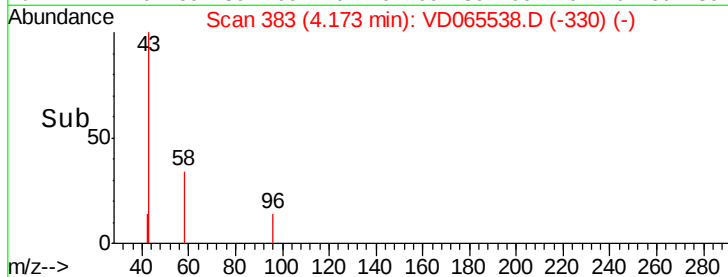
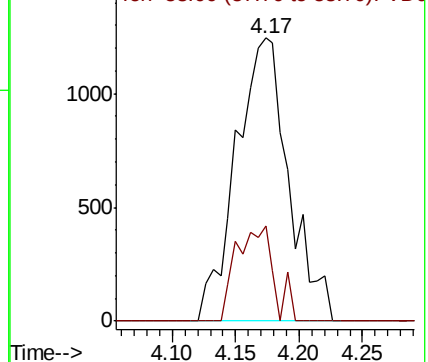
43 100

58 33.8 27.9 41.9



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#20

Methylene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 518

Delta R.T. 0.01 min

Lab File: VD065538.D

Acq: 27 Mar 2020 12:23

Tgt Ion: 84 Resp: 9926

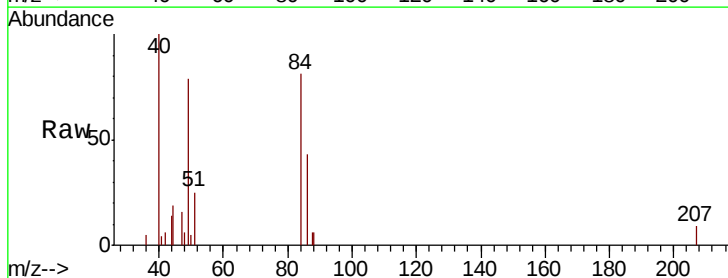
Ion Ratio Lower Upper

84 100

49 98.2 95.6 143.4

51 30.5 29.4 44.2

86 53.2 50.6 76.0

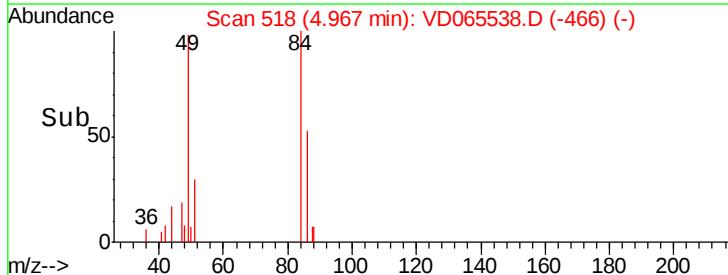
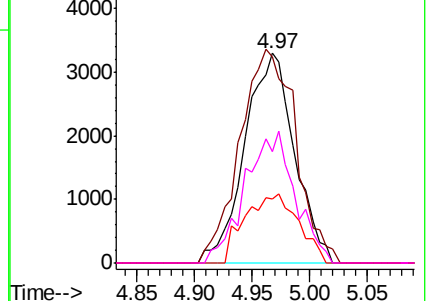


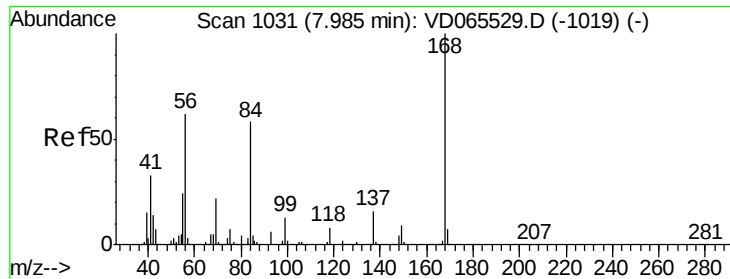
Abundance Ion 83.90 (83.60 to 84.60): VDC

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

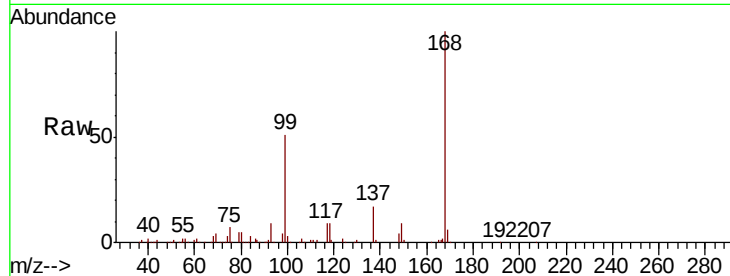




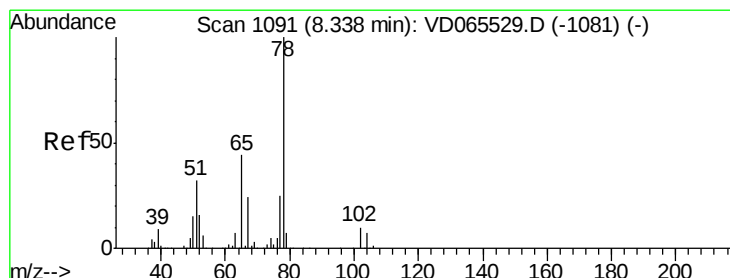
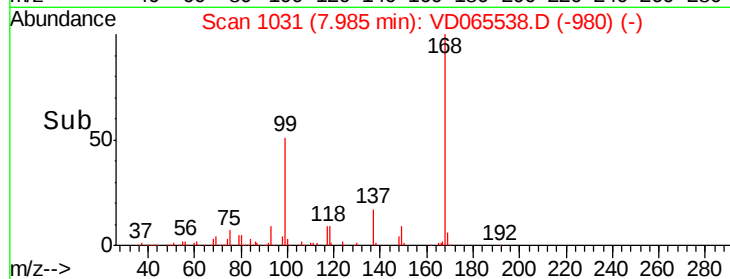
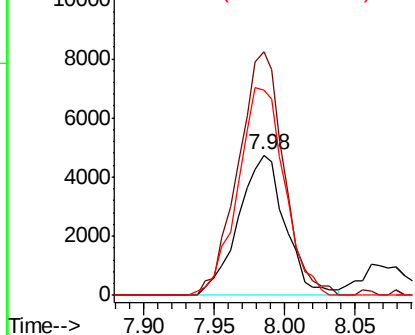
#31
Cyclohexane
Concen: 1.408 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD065538.D
Acq: 27 Mar 2020 12:23

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 56 Resp: 11019
Ion Ratio Lower Upper
56 100
69 173.8 28.2 42.4#
84 146.8 73.4 110.0#

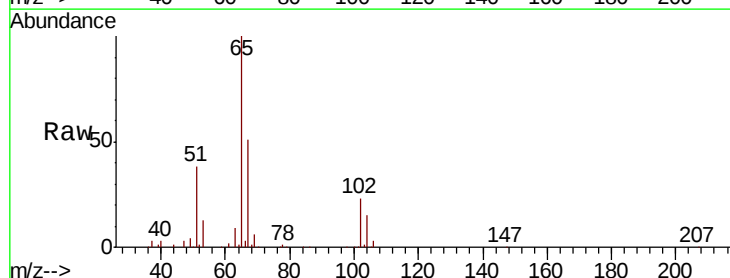


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

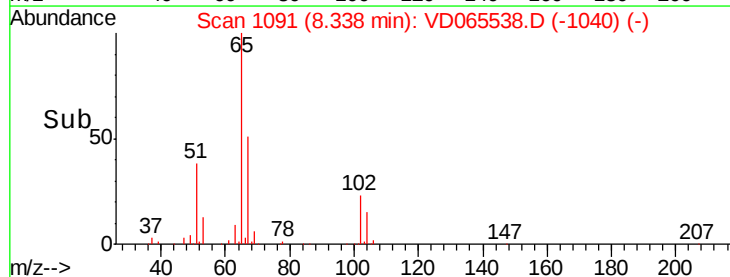
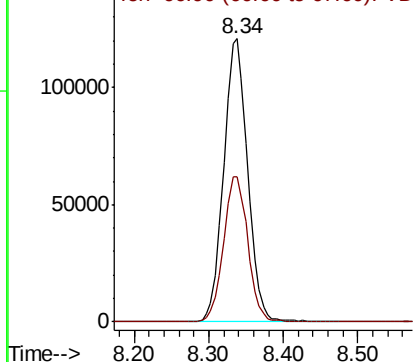


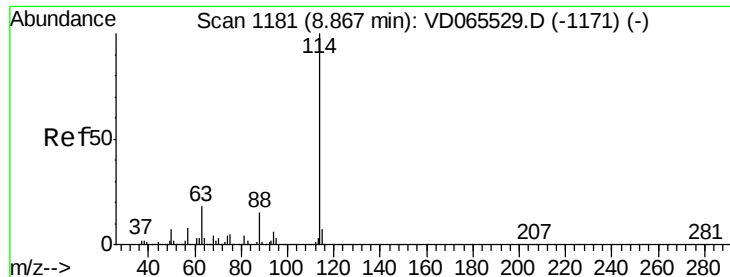
#33
1,2-Dichloroethane-d4
Concen: 64.887 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. -0.00 min
Lab File: VD065538.D
Acq: 27 Mar 2020 12:23

Tgt Ion: 65 Resp: 270109
Ion Ratio Lower Upper
65 100
67 51.9 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VDC
Ion 66.90 (66.60 to 67.60): VDC

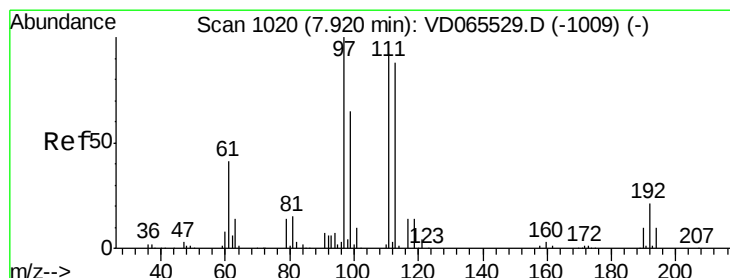
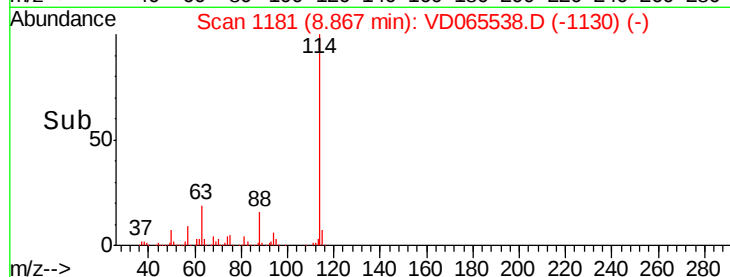
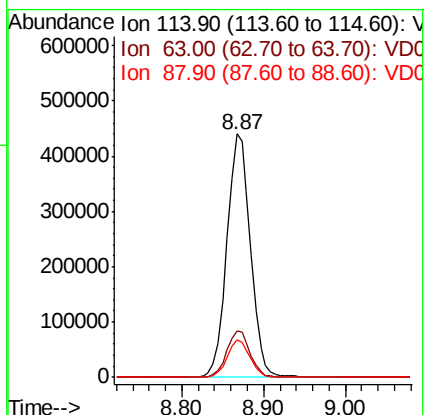
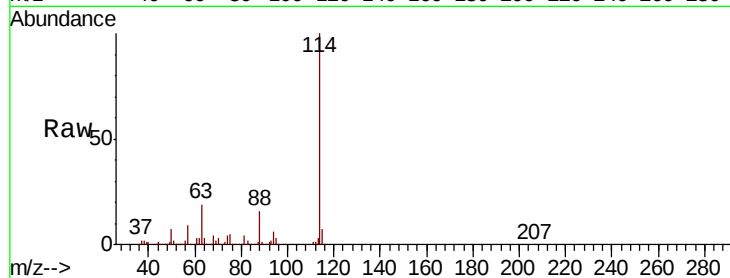




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.87 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VD065538.D
Acq: 27 Mar 2020 12:23

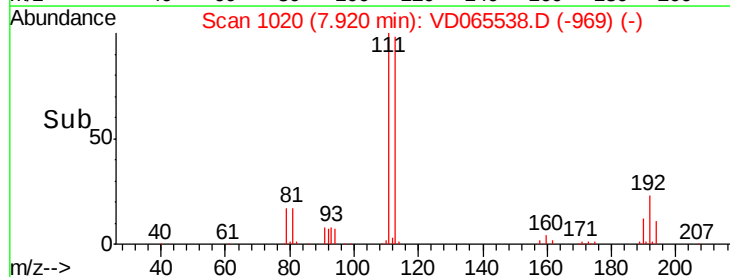
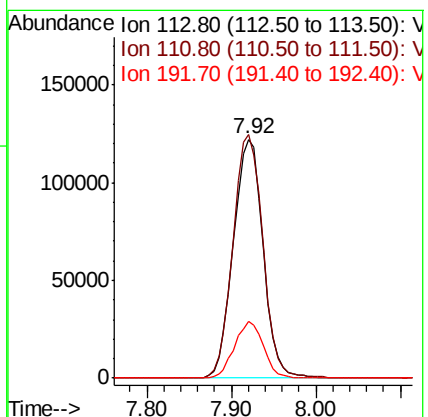
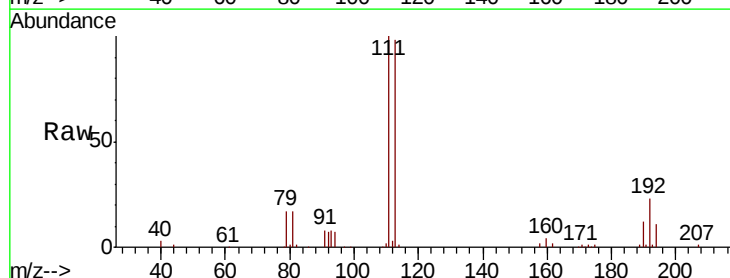
Instrument :
MSVOA_D
ClientSampleId :

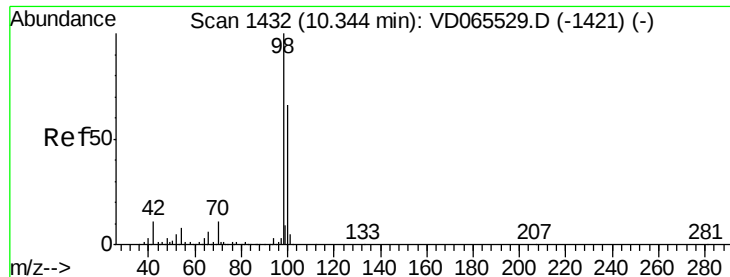
Tot Ion:114 Resp: 881244
Ion Ratio Lower Upper
114 100
63 19.2 0.0 37.0
88 15.5 0.0 30.4



#35
Dibromofluoromethane
Concen: 54.606 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. -0.00 min
Lab File: VD065538.D
Acq: 27 Mar 2020 12:23

Tgt Ion:113 Resp: 297026
Ion Ratio Lower Upper
113 100
111 102.2 83.3 124.9
192 23.2 18.5 27.7

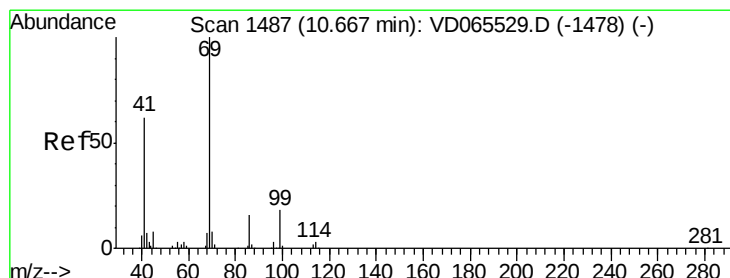
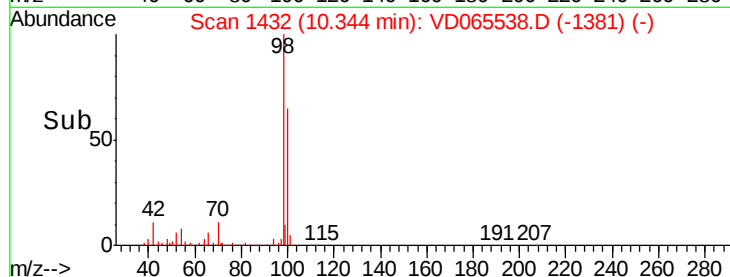
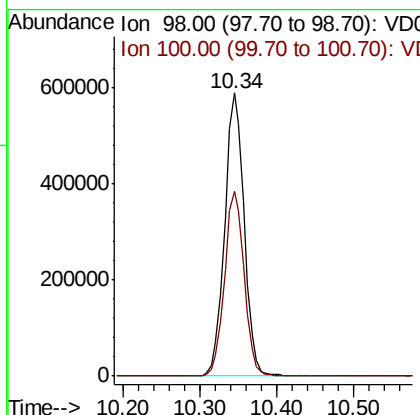
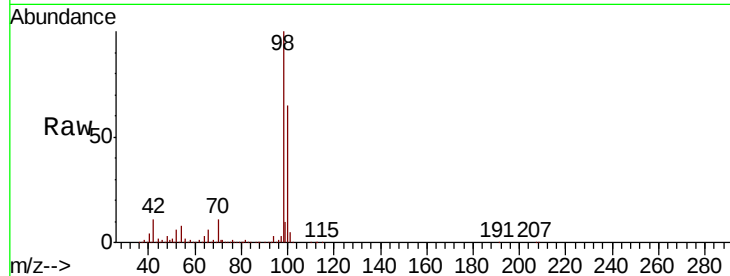




#50
Toluene-d8
Concen: 50.972 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD065538.D
Acq: 27 Mar 2020 12:23

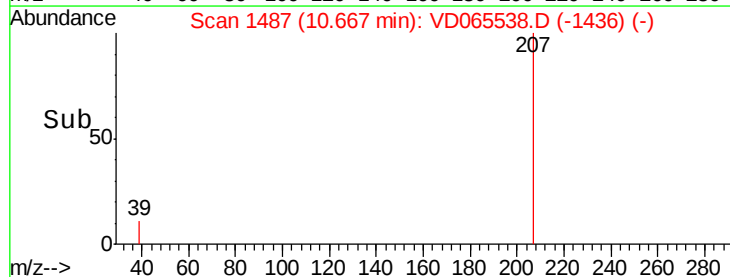
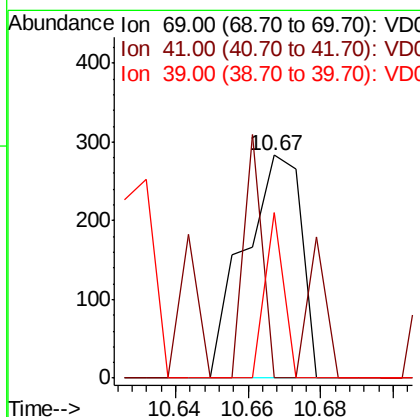
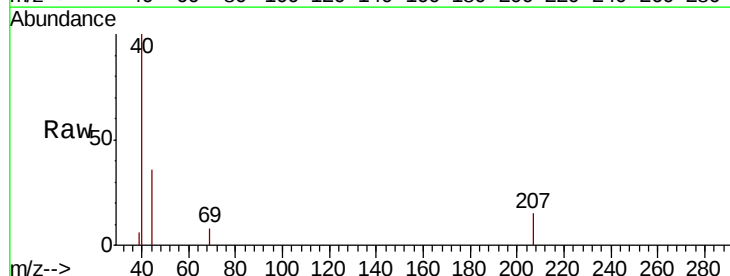
Instrument :
MSVOA_D
ClientSampleId :

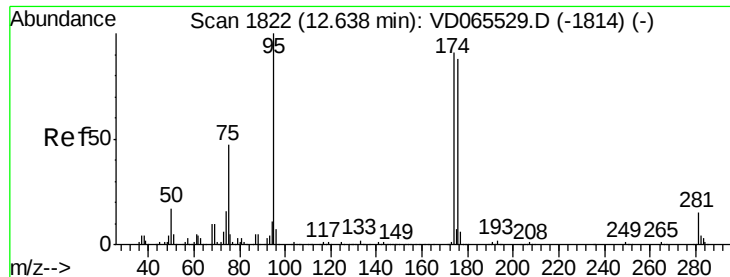
Tot Ion: 98 Resp: 1040904
Ion Ratio Lower Upper
98 100
100 65.5 52.2 78.2



#56
Ethyl methacrylate
Concen: 3.349 ug/l
RT: 10.67 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VD065538.D
Acq: 27 Mar 2020 12:23

Tgt Ion: 69 Resp: 308
Ion Ratio Lower Upper
69 100
41 35.4 51.3 76.9#
39 24.0 25.3 37.9#

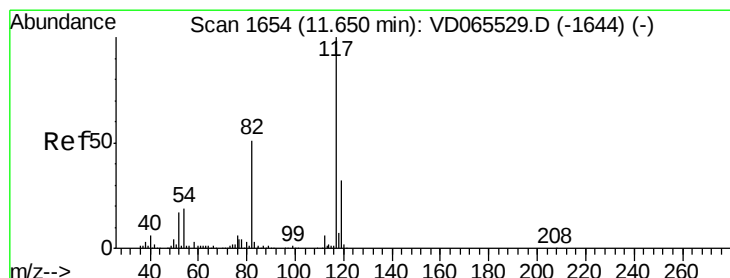
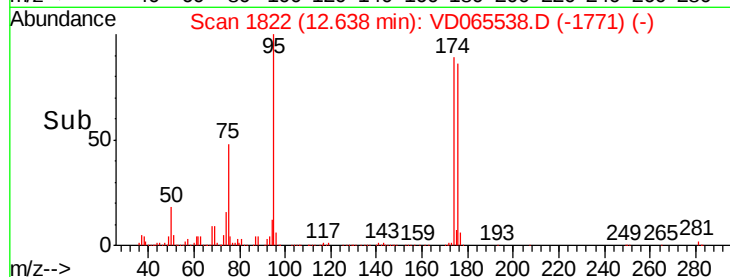
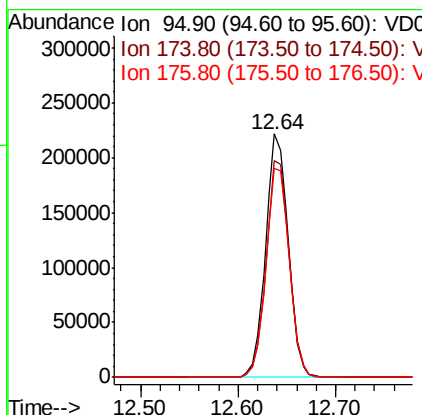
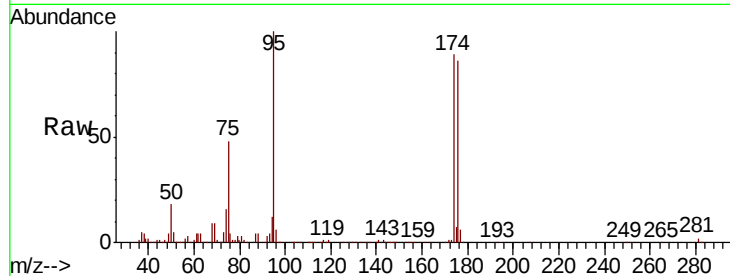




#62
4-Bromofluorobenzene
Concen: 55.775 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VD065538.D
Acq: 27 Mar 2020 12:23

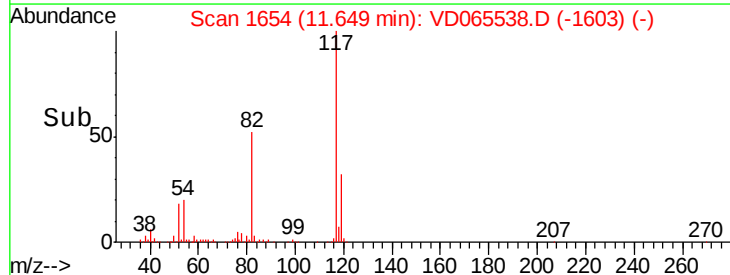
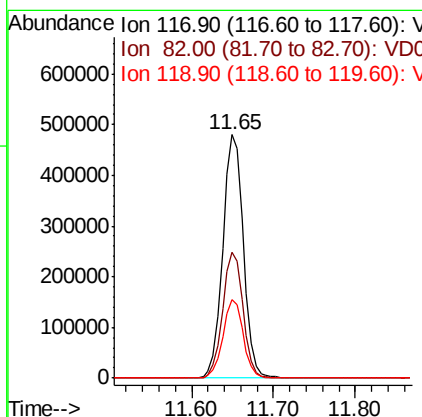
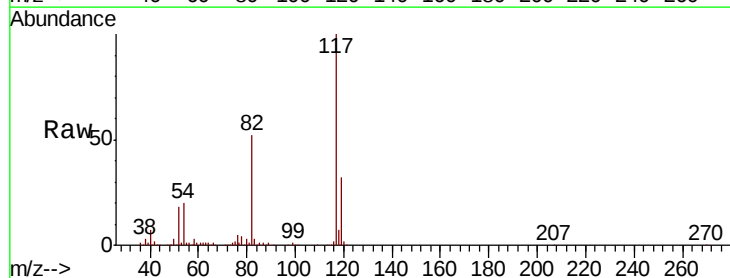
Instrument :
MSVOA_D
ClientSampleId :

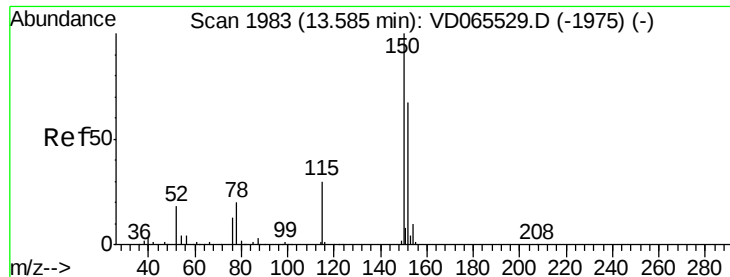
Tot Ion	Ratio	Lower	Upper
95	100		
174	90.7	0.0	183.8
176	88.4	0.0	178.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD065538.D
Acq: 27 Mar 2020 12:23

Tgt Ion	Ratio	Lower	Upper
117	100		
82	51.8	41.0	61.6
119	32.1	25.5	38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. -0.00 min

Lab File: VD065538.D

Acq: 27 Mar 2020 12:23

Instrument :

MSVOA_D

ClientSampleId :

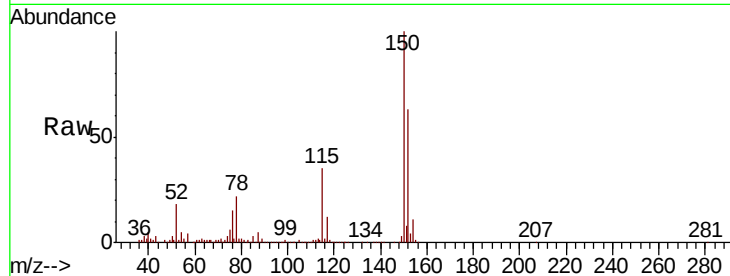
Tot Ion:152 Resp: 443959

Ion Ratio Lower Upper

152 100

115 55.8 27.2 81.6

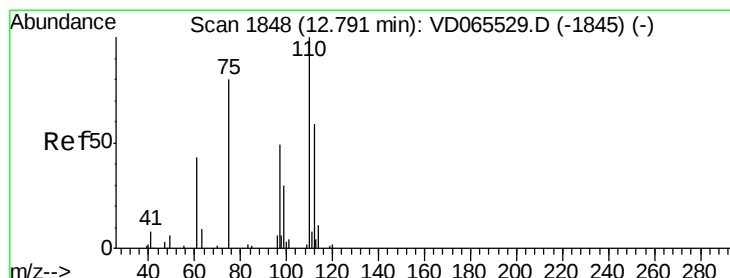
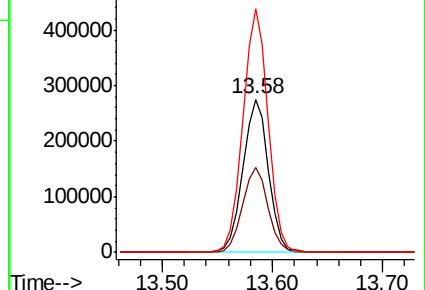
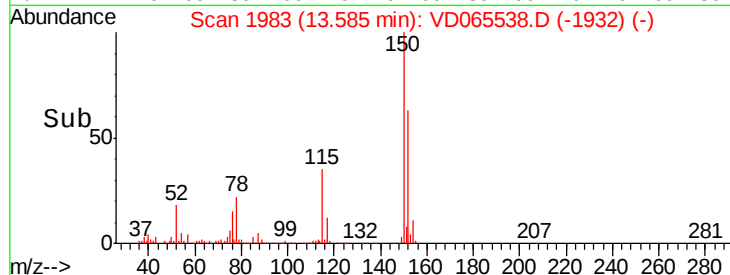
150 156.9 0.0 340.2



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: 50.046 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065538.D

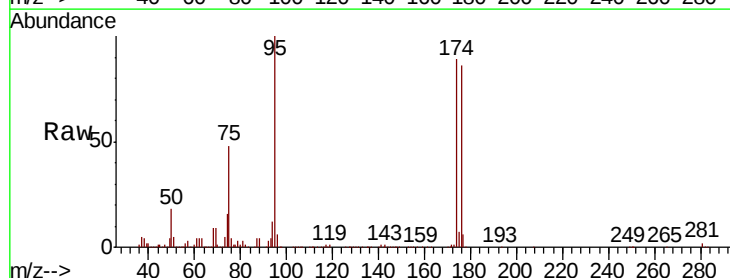
Acq: 27 Mar 2020 12:23

Tgt Ion: 75 Resp: 170817

Ion Ratio Lower Upper

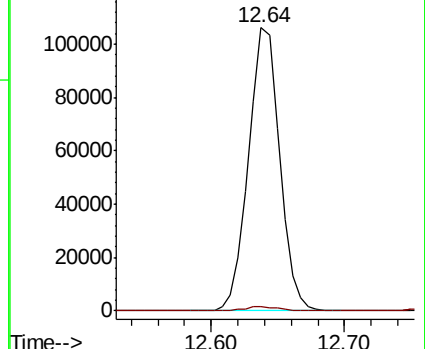
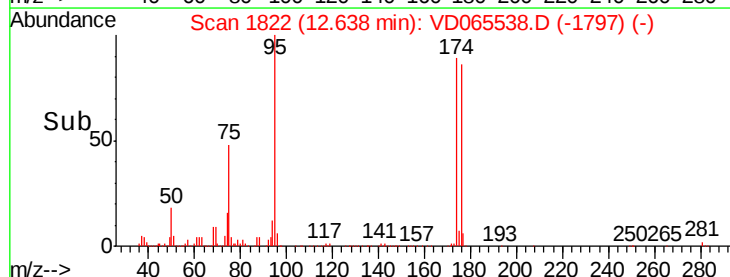
75 100

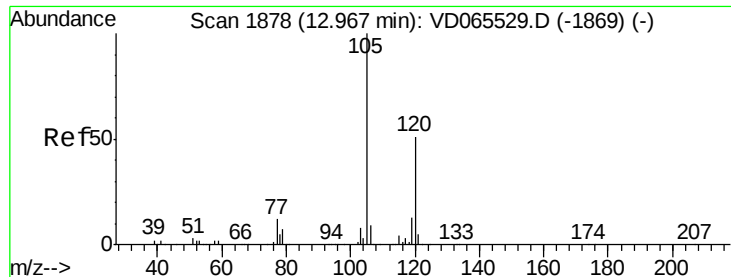
77 1.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

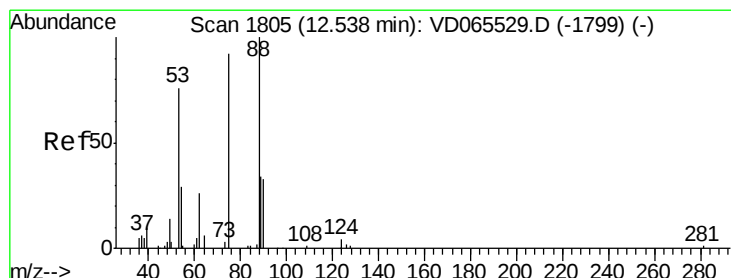
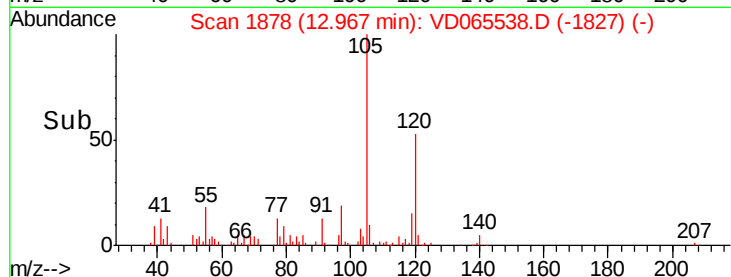
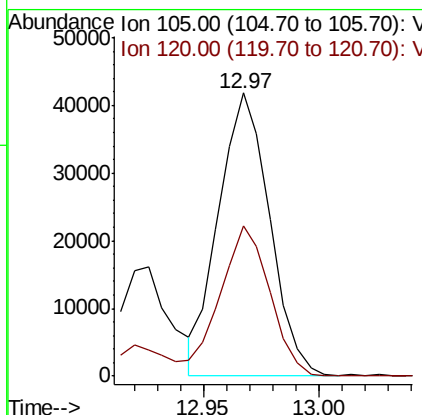
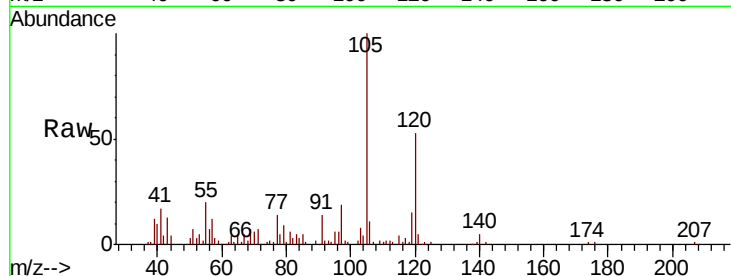




#80
 1,3,5-Trimethylbenzene
 Concen: 2.849 ug/l
 RT: 12.97 min Scan# 1878
 Delta R.T. -0.00 min
 Lab File: VD065538.D
 Acq: 27 Mar 2020 12:23

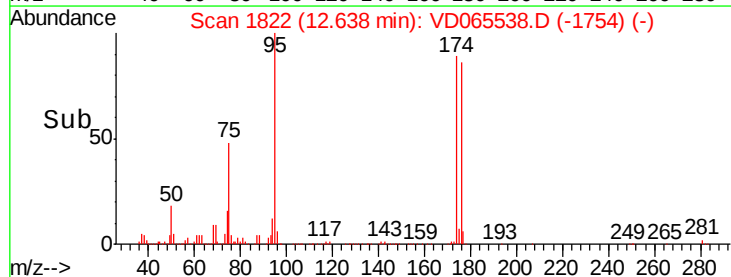
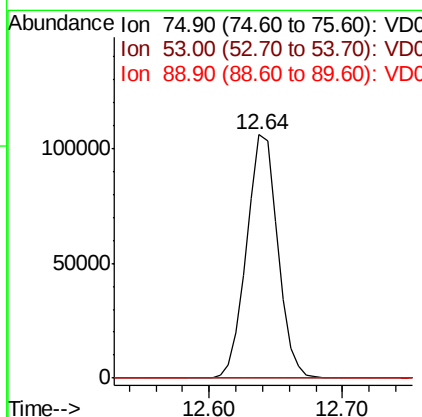
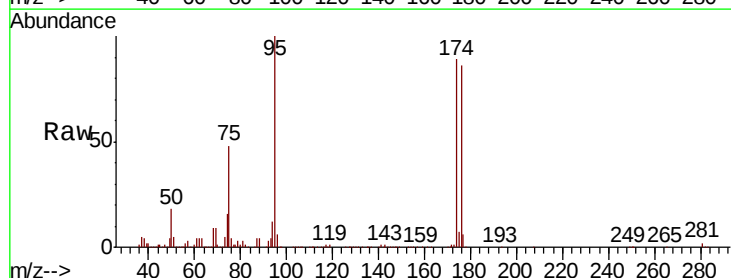
Instrument :
 MSVOA_D
 ClientSampled :

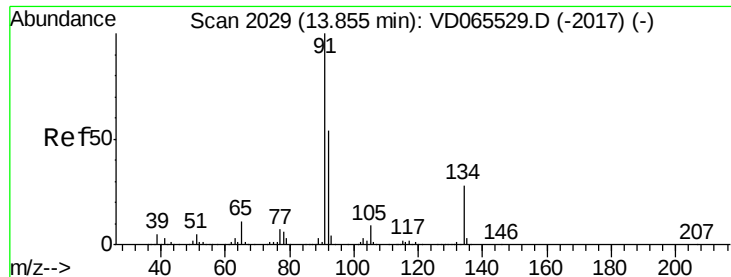
Tot Ion:105 Resp: 64378
 Ion Ratio Lower Upper
 105 100
 120 52.1 25.6 76.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 111.712 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.10 min
 Lab File: VD065538.D
 Acq: 27 Mar 2020 12:23

Tgt Ion: 75 Resp: 170817
 Ion Ratio Lower Upper
 75 100
 53 0.2 72.4 108.6#
 89 0.0 36.9 55.3#

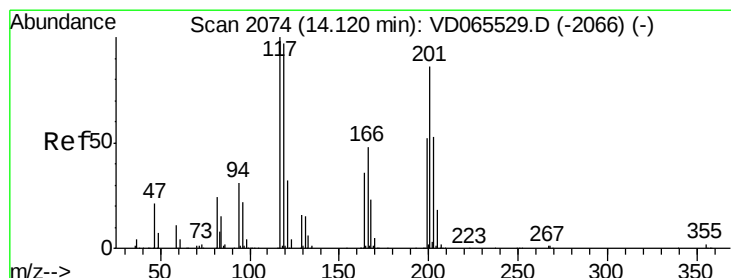
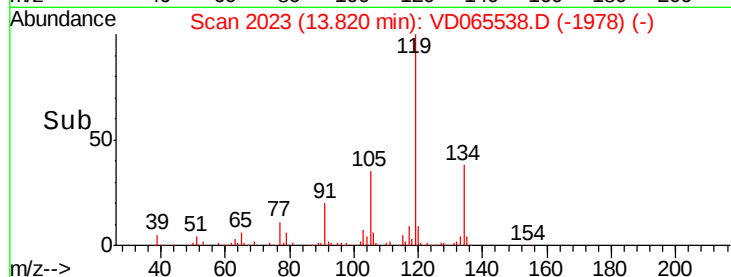
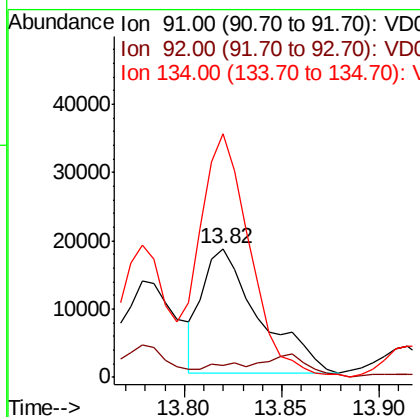
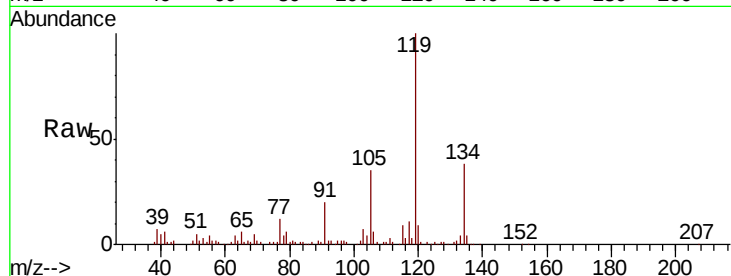




#89
n-Butylbenzene
Concen: 1.611 ug/l
RT: 13.82 min Scan# 2023
Delta R.T. -0.04 min
Lab File: VD065538.D
Acq: 27 Mar 2020 12:23

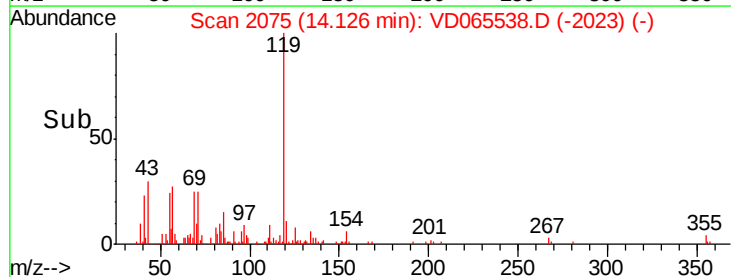
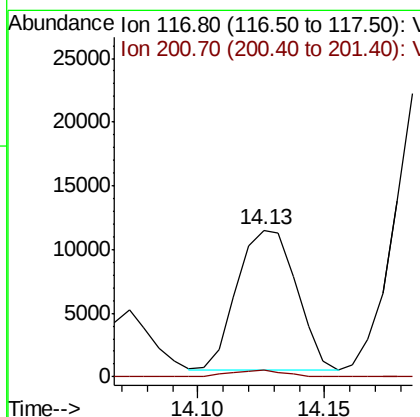
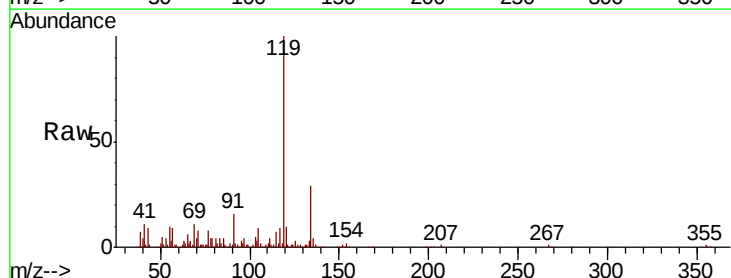
Instrument :
MSVOA_D
ClientSampleId :

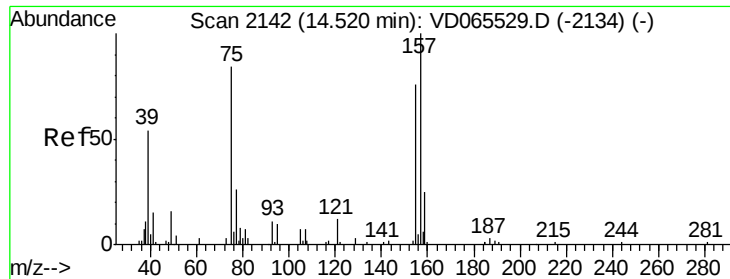
Tot Ion: 91 Resp: 36521
Ion Ratio Lower Upper
91 100
92 7.8 26.8 80.4#
134 174.7 13.7 41.0#



#90
Hexachloroethane
Concen: 3.404 ug/l
RT: 14.13 min Scan# 2075
Delta R.T. 0.01 min
Lab File: VD065538.D
Acq: 27 Mar 2020 12:23

Tgt Ion: 117 Resp: 17813
Ion Ratio Lower Upper
117 100
201 4.0 43.9 131.6#

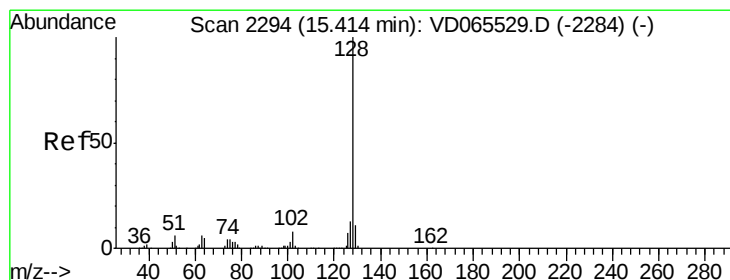
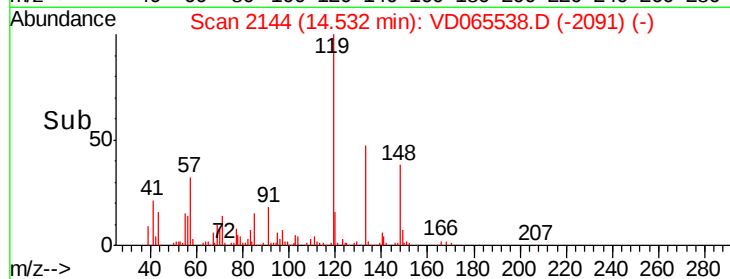
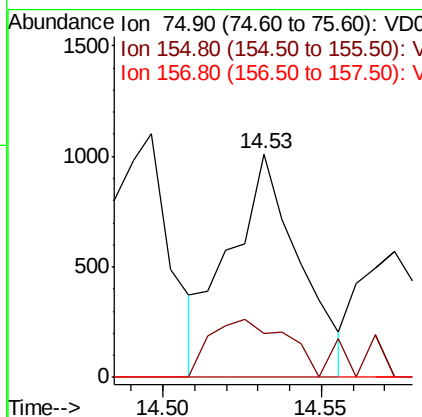
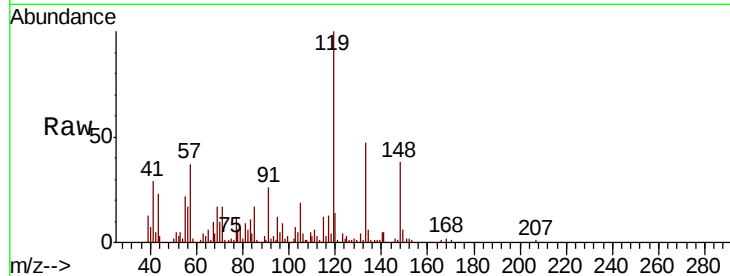




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.157 ug/l
 RT: 14.53 min Scan# 2144
 Delta R.T. 0.01 min
 Lab File: VD065538.D
 Acq: 27 Mar 2020 12:23

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion: 75 Resp: 1539
 Ion Ratio Lower Upper
 75 100
 155 28.5 46.2 138.6#
 157 0.0 57.9 173.7#



#95
 Naphthalene
 Concen: 5.613 ug/l
 RT: 15.41 min Scan# 2294
 Delta R.T. -0.00 min
 Lab File: VD065538.D
 Acq: 27 Mar 2020 12:23

Tgt Ion: 128 Resp: 19375
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.4 15.6#
 129 0.0 8.7 13.1#

