

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111120\
 Data File : VD067599.D
 Acq On : 11 Nov 2020 13:46
 Operator : VA/SY
 Sample : L4702-04
 Misc : 6.22G/5.00ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 M-99(0-10)

Quant Time: Nov 12 00:09:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110320S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 04 00:56:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	345334	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	561498	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	601163	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	302159	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	169504	56.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.28%	
35) Dibromofluoromethane	7.92	113	181056	53.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.04%	
50) Toluene-d8	10.34	98	687314	57.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.62%	
62) 4-Bromofluorobenzene	12.64	95	278001	67.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	135.46%	

Target Compounds

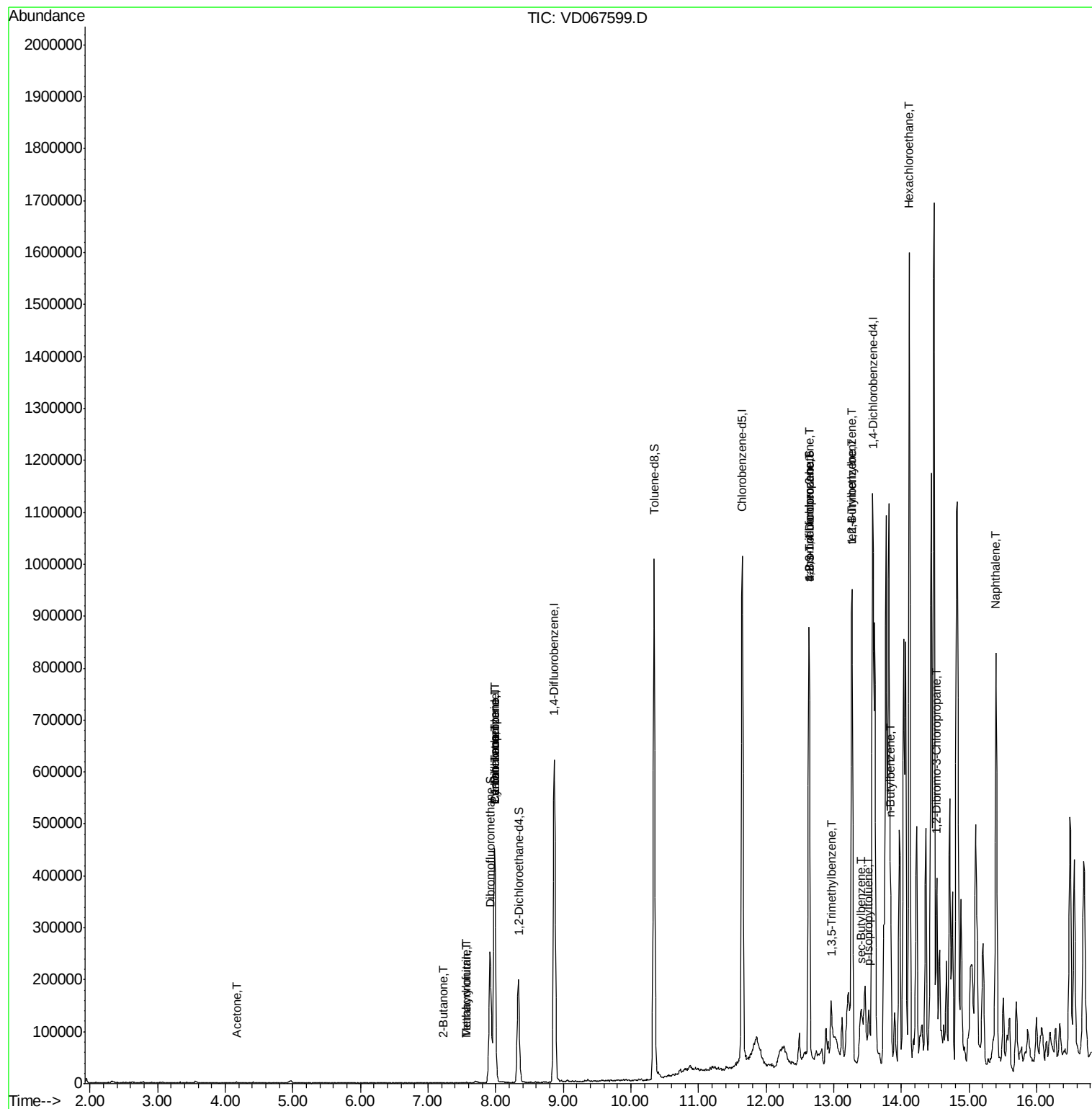
					Qvalue	
2) Dichlorodifluoromethane	1.99	85	321	Below Cal	#	71
16) Acetone	4.16	43	2814	6.228	ug/l	94
25) 2-Butanone	7.23	43	780	1.615	ug/l #	42
29) Tetrahydrofuran	7.57	42	838	2.898	ug/l	95
31) Cyclohexane	7.98	56	6503	1.485	ug/l #	37
36) 1,1-Dichloropropene	7.98	75	23266	4.841	ug/l #	48
38) Carbon Tetrachloride	7.98	117	34940	5.595	ug/l #	15
41) Methacrylonitrile	7.56	41	832	1.115	ug/l #	17
76) 1,2,3-Trichloropropane	12.64	75	143184	78.552	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.97	105	48338	2.898	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.64	75	143184	159.481	ug/l #	10
83) tert-Butylbenzene	13.27	119	68726	4.861	ug/l #	68
84) 1,2,4-Trimethylbenzene	13.27	105	538759	32.445	ug/l	99
85) sec-Butylbenzene	13.41	105	36521	1.914	ug/l #	66
86) p-Isopropyltoluene	13.52	119	48620	2.638	ug/l	99
89) n-Butylbenzene	13.84	91	143357	9.005	ug/l #	75
90) Hexachloroethane	14.12	117	82642	23.811	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.53	75	1782	3.780	ug/l #	1
95) Naphthalene	15.40	128	700607	84.455	ug/l	99

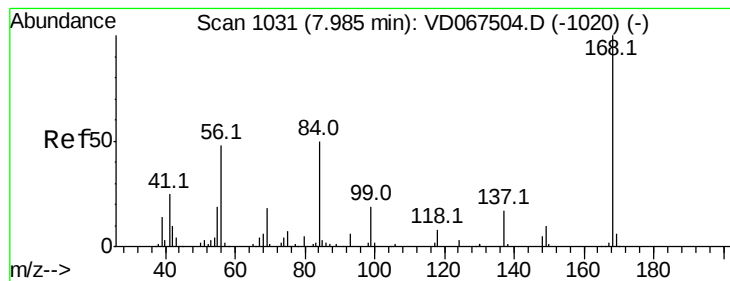
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 12 00:09:12 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D110320S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 04 00:56:28 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: VD067599.D

Acq: 11 Nov 2020 13:46

Instrument :

MSVOA_D

ClientSampleId :

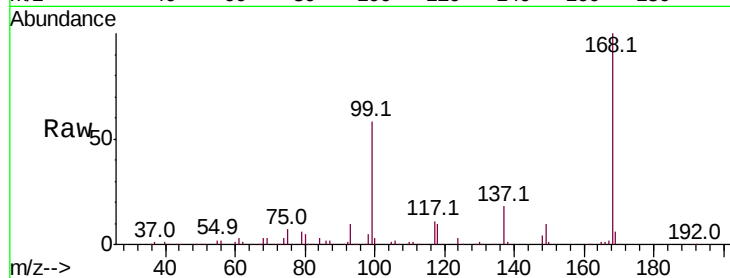
M-99(0-10)

Tot Ion:168 Resp: 345334

Ion Ratio Lower Upper

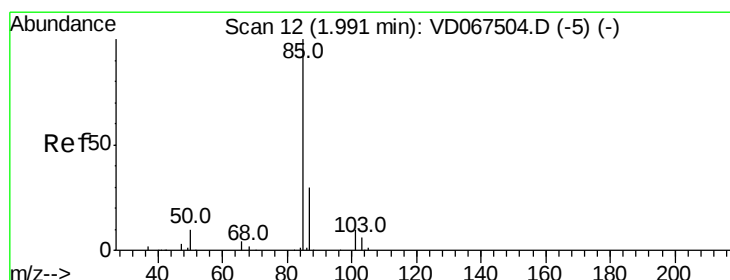
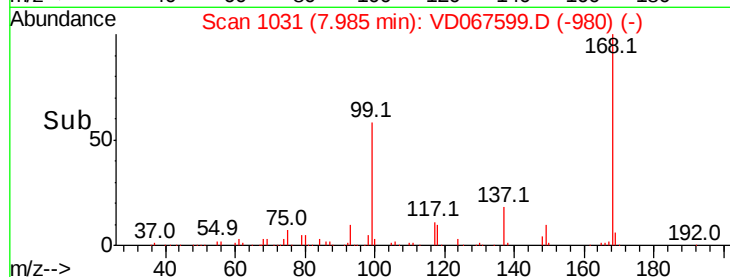
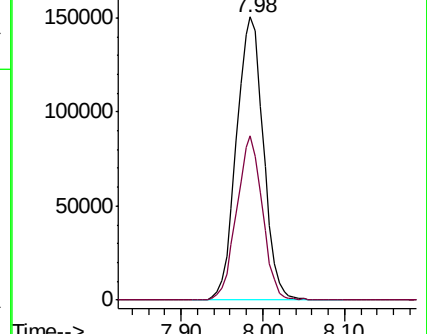
168 100

99 57.9 45.0 67.6



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# 11

Delta R.T. -0.01 min

Lab File: VD067599.D

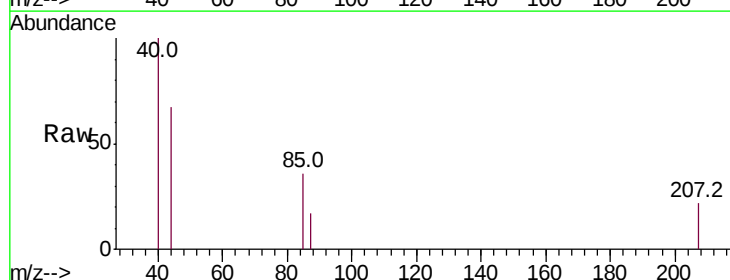
Acq: 11 Nov 2020 13:46

Tgt Ion: 85 Resp: 321

Ion Ratio Lower Upper

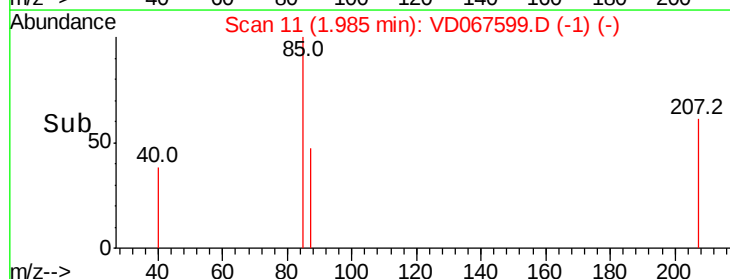
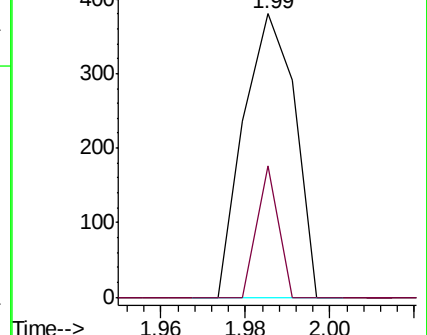
85 100

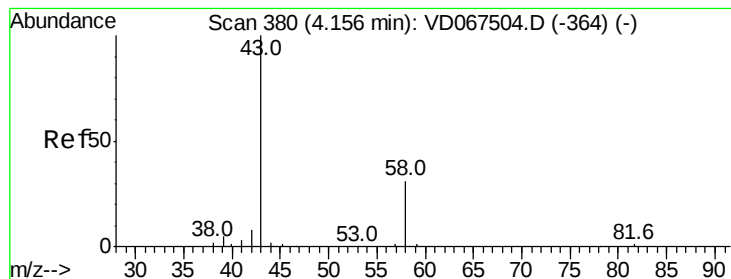
87 46.6 15.3 45.8#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#16

Acetone

Concen: 6.228 ug/l

RT: 4.16 min Scan# 381

Delta R.T. 0.01 min

Lab File: VD067599.D

Acq: 11 Nov 2020 13:46

Instrument :

MSVOA_D

ClientSampleId :

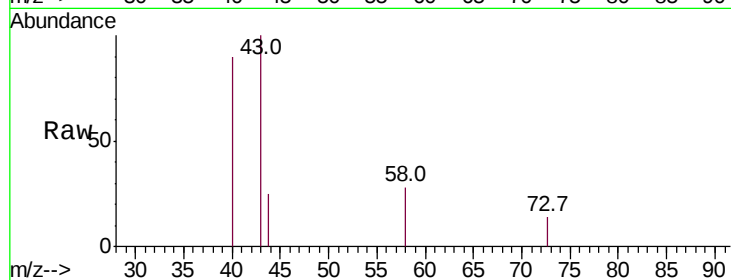
M-99(0-10)

Tot Ion: 43 Resp: 2814

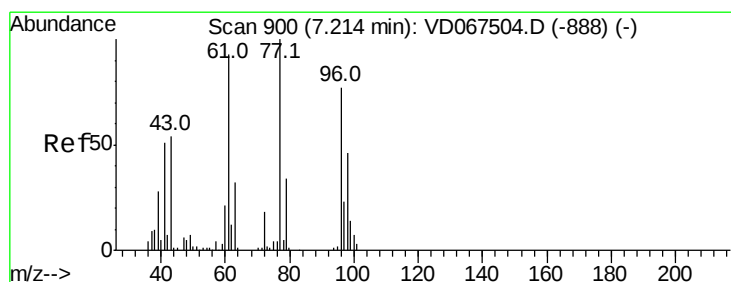
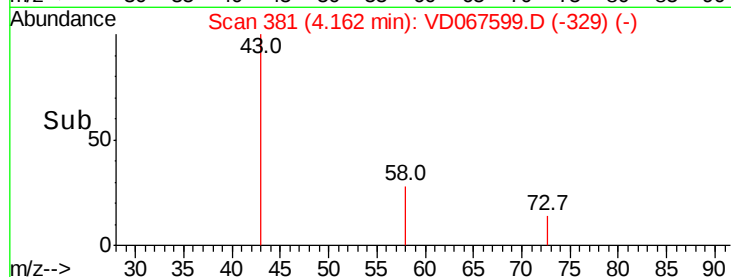
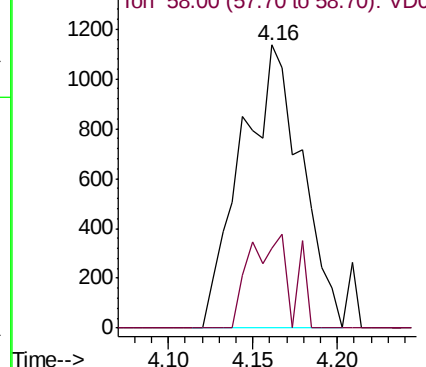
Ion Ratio Lower Upper

43 100

58 28.2 25.2 37.8



Abundance Ion 43.00 (42.70 to 43.70): VDC



#25

2-Butanone

Concen: 1.615 ug/l

RT: 7.23 min Scan# 902

Delta R.T. 0.01 min

Lab File: VD067599.D

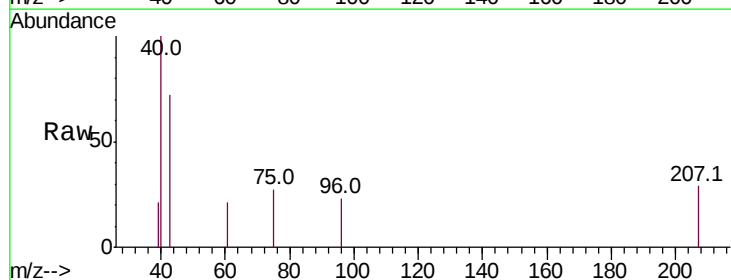
Acq: 11 Nov 2020 13:46

Tgt Ion: 43 Resp: 780

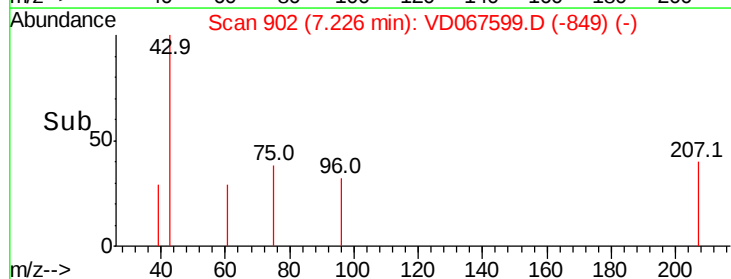
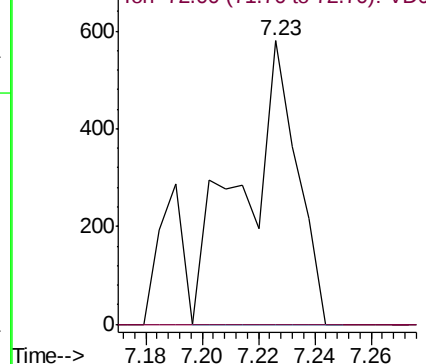
Ion Ratio Lower Upper

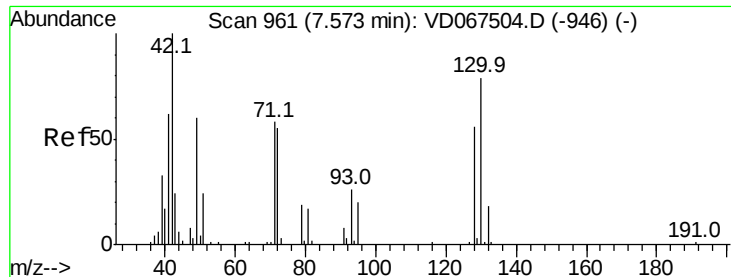
43 100

72 0.0 26.4 39.6#



Abundance Ion 43.00 (42.70 to 43.70): VDC

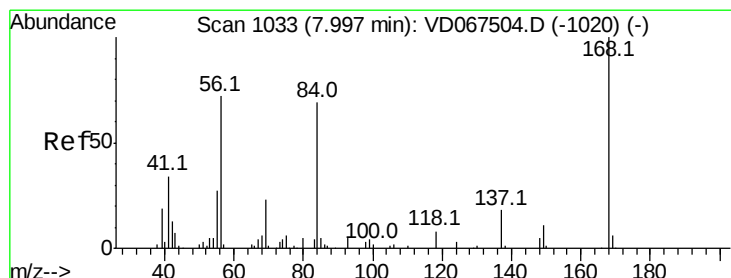
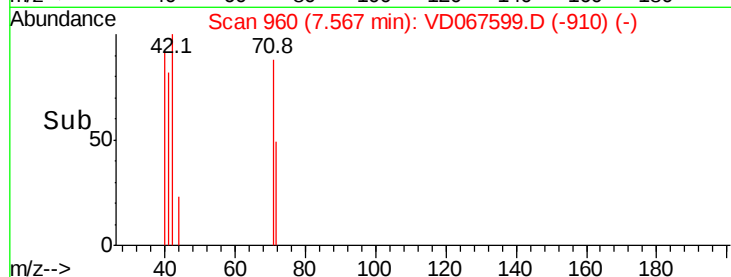
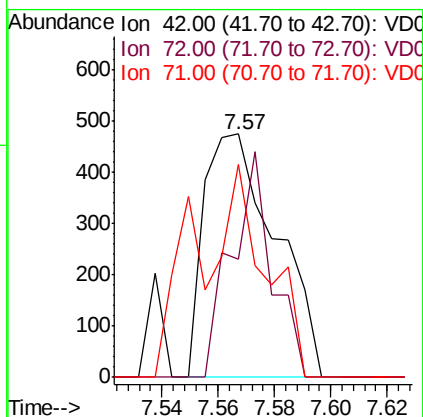
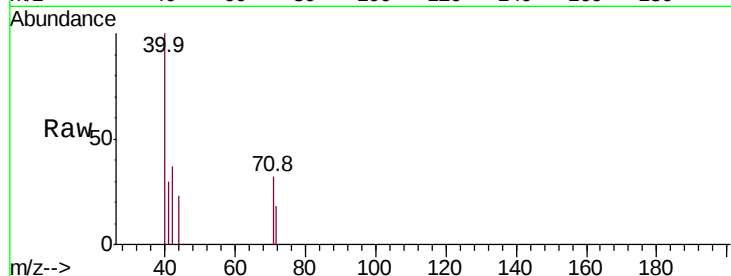




#29
Tetrahydrofuran
Concen: 2.898 ug/l
RT: 7.57 min Scan# 960
Delta R.T. -0.01 min
Lab File: VD067599.D
Acq: 11 Nov 2020 13:46

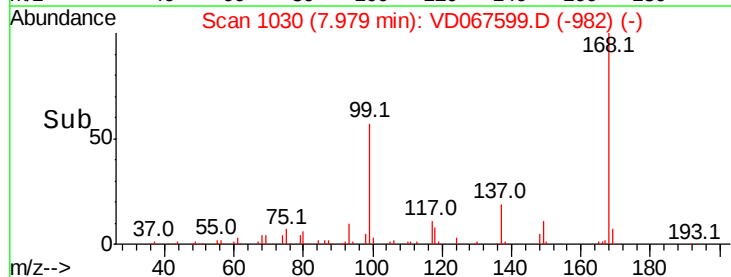
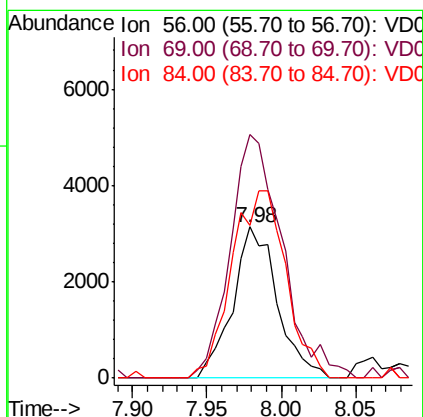
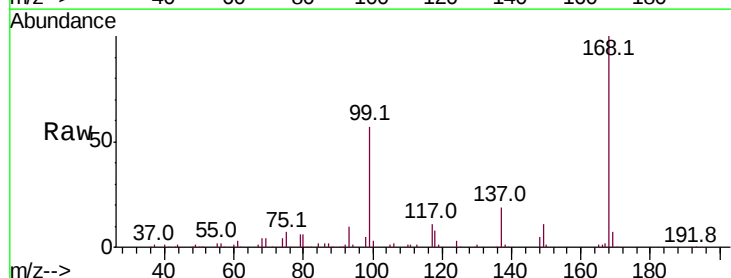
Instrument :
MSVOA_D
ClientSampleId :
M-99(0-10)

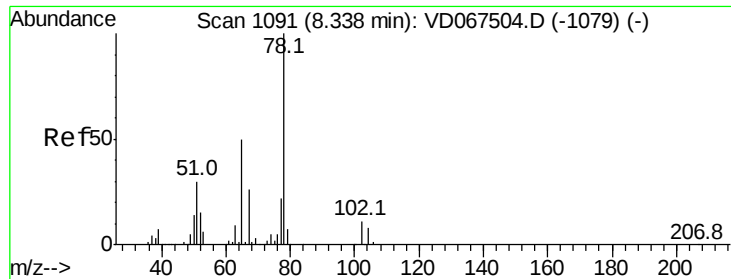
Tot Ion: 42 Resp: 838
Ion Ratio Lower Upper
42 100
72 51.9 46.3 69.5
71 53.3 44.0 66.0



#31
Cyclohexane
Concen: 1.485 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.02 min
Lab File: VD067599.D
Acq: 11 Nov 2020 13:46

Tgt Ion: 56 Resp: 6503
Ion Ratio Lower Upper
56 100
69 160.9 25.9 38.9#
84 101.3 76.2 114.4





#33

1,2-Dichloroethane-d4

Concen: 56.135 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. -0.00 min

Lab File: VD067599.D

Acq: 11 Nov 2020 13:46

Instrument :

MSVOA_D

ClientSampleId :

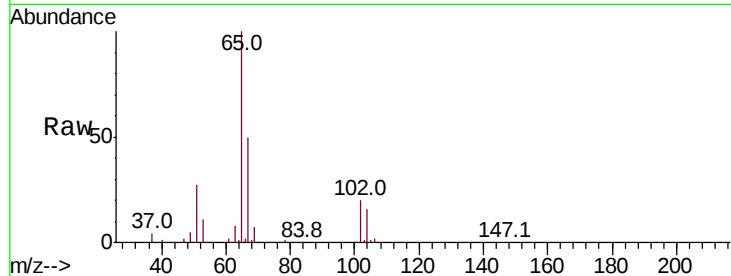
M-99(0-10)

Tot Ion: 65 Resp: 169504

Ion Ratio Lower Upper

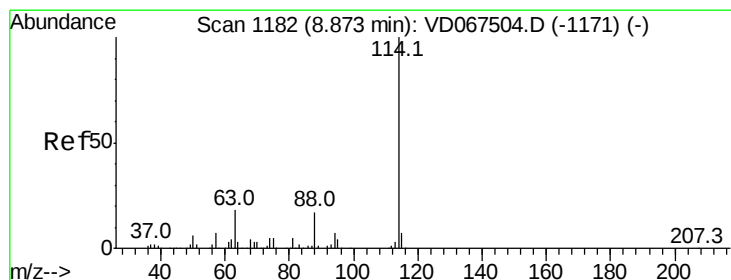
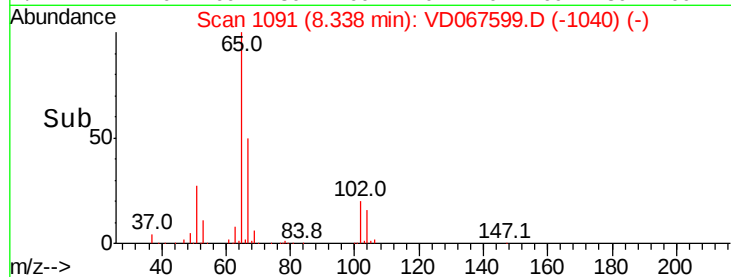
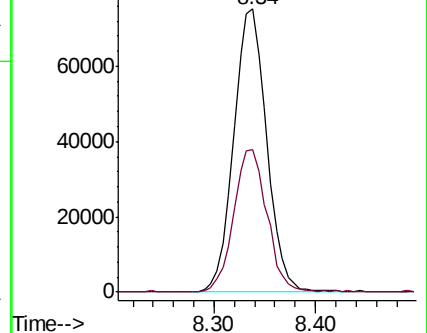
65 100

67 50.8 0.0 99.4



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. -0.01 min

Lab File: VD067599.D

Acq: 11 Nov 2020 13:46

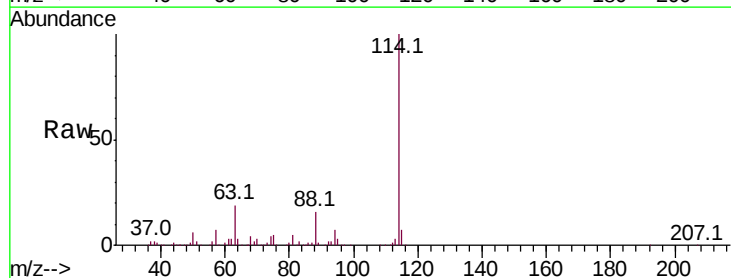
Tgt Ion: 114 Resp: 561498

Ion Ratio Lower Upper

114 100

63 18.7 0.0 35.0

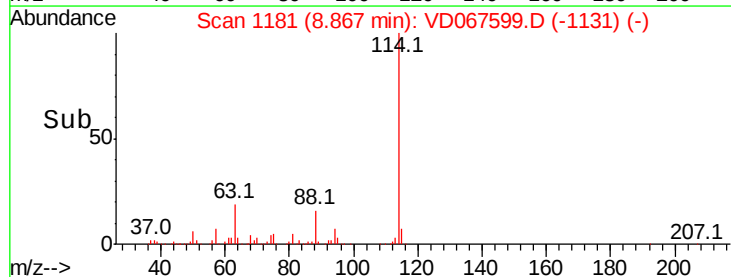
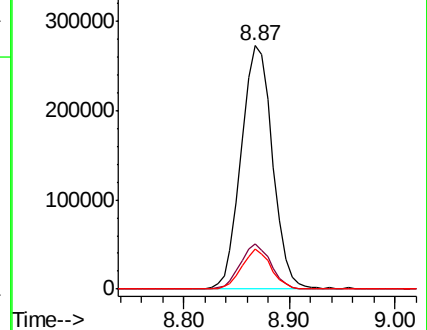
88 16.4 0.0 33.0

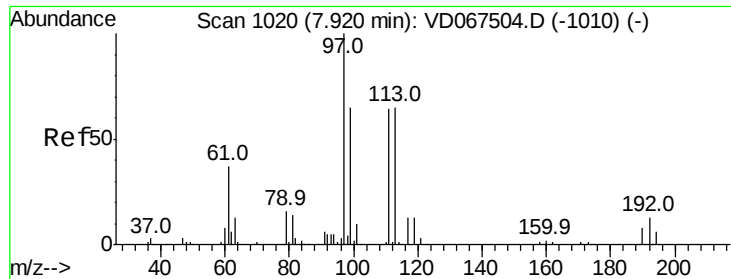


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

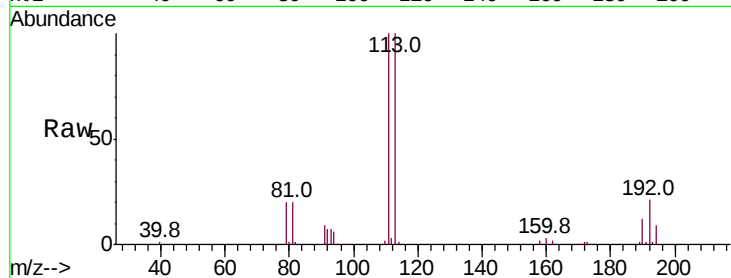




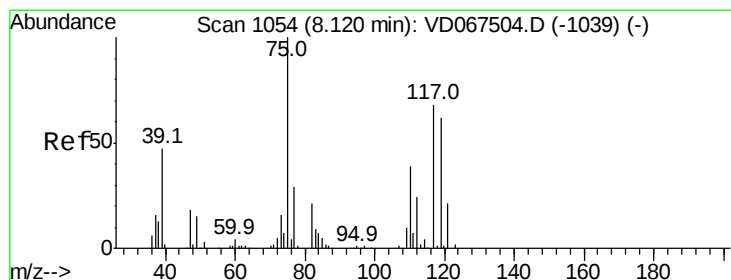
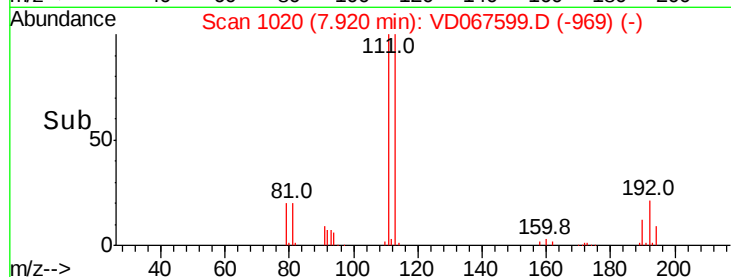
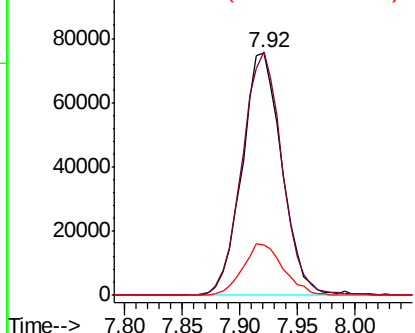
#35
 Dibromofluoromethane
 Concen: 53.519 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. -0.00 min
 Lab File: VD067599.D
 Acq: 11 Nov 2020 13:46

Instrument :
 MSVOA_D
 ClientSampleId :
 M-99(0-10)

Tot Ion:113 Resp: 181056
 Ion Ratio Lower Upper
 113 100
 111 101.4 80.0 120.0
 192 21.8 16.3 24.5

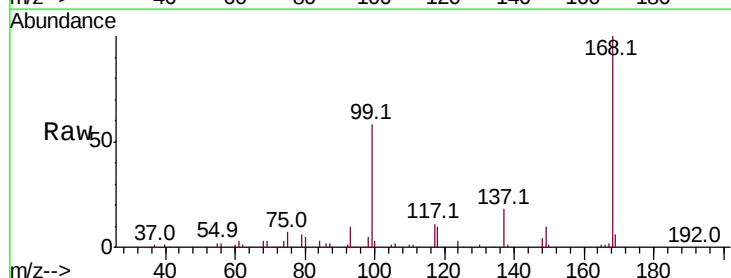


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

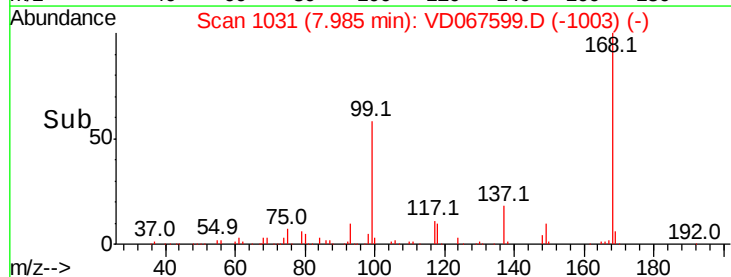
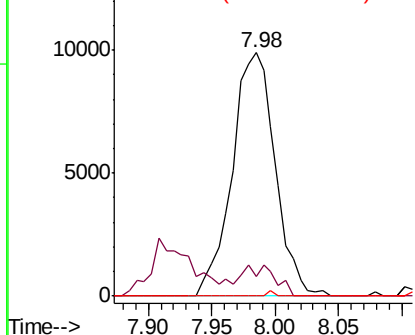


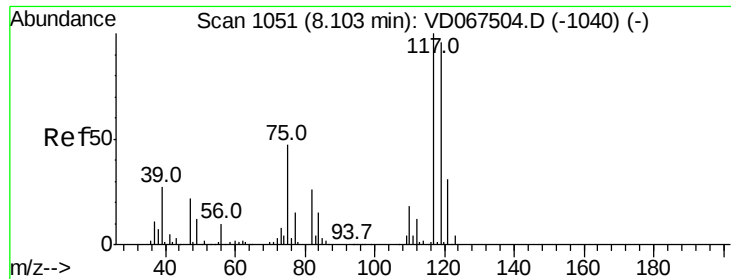
#36
 1,1-Dichloropropene
 Concen: 4.841 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.14 min
 Lab File: VD067599.D
 Acq: 11 Nov 2020 13:46

Tgt Ion: 75 Resp: 23266
 Ion Ratio Lower Upper
 75 100
 110 9.4 19.9 59.7#
 77 0.4 24.8 37.2#



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: 5.595 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.12 min

Lab File: VD067599.D

Acq: 11 Nov 2020 13:46

Instrument :

MSVOA_D

ClientSampleId :

M-99(0-10)

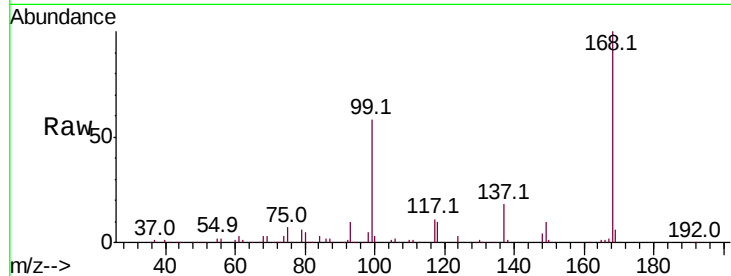
Tot Ion:117 Resp: 34940

Ion Ratio Lower Upper

117 100

119 3.5 76.9 115.3#

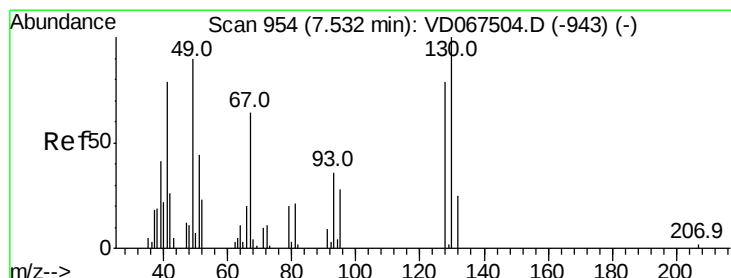
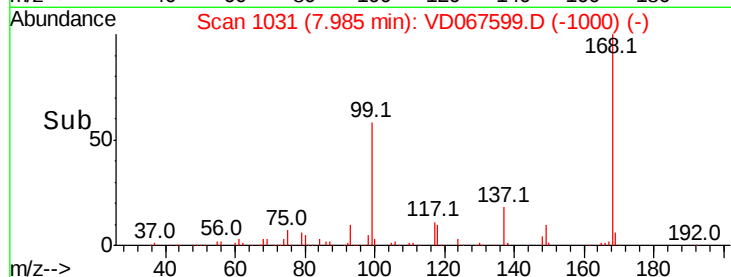
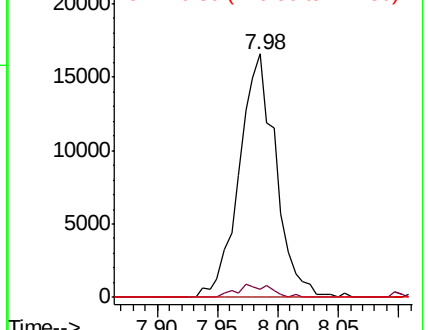
121 0.0 24.5 36.7#



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



#41

Methacrylonitrile

Concen: 1.115 ug/l

RT: 7.56 min Scan# 959

Delta R.T. 0.03 min

Lab File: VD067599.D

Acq: 11 Nov 2020 13:46

Tgt Ion: 41 Resp: 832

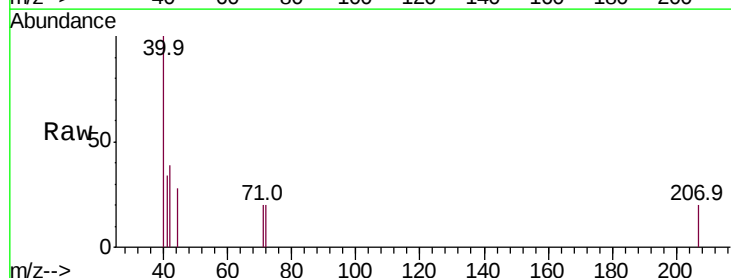
Ion Ratio Lower Upper

41 100

39 0.0 51.3 76.9#

67 7.3 78.9 118.3#

52 0.0 31.4 47.2#

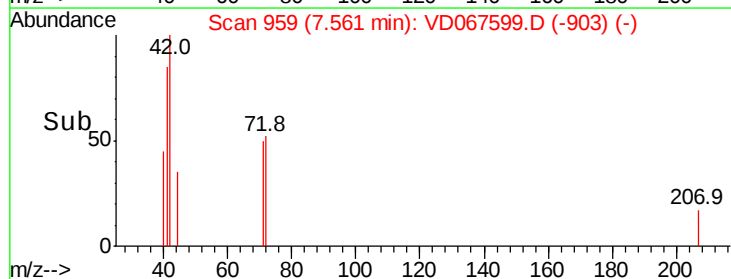
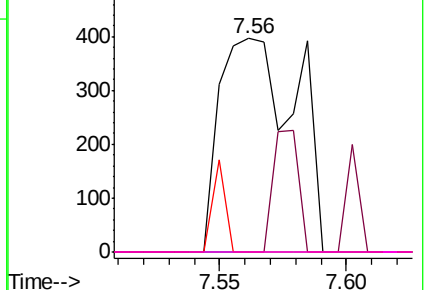


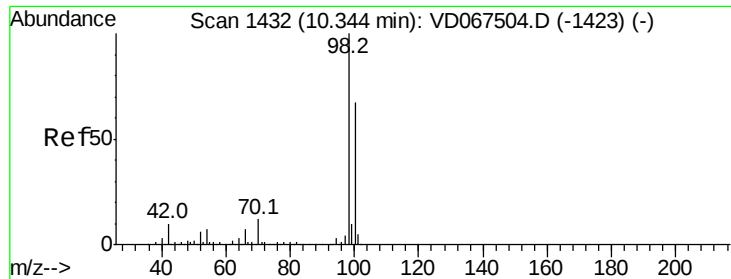
Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC





#50

Toluene-d8

Concen: 57.812 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VD067599.D

Acq: 11 Nov 2020 13:46

Instrument :

MSVOA_D

ClientSampleId :

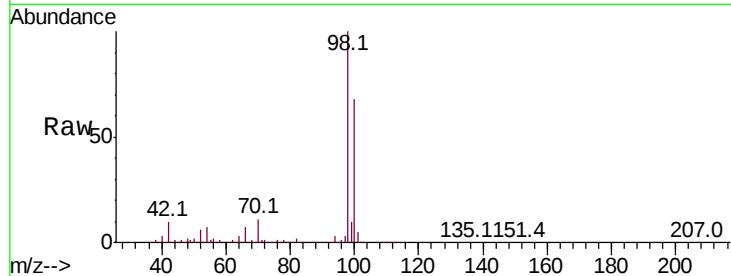
M-99(0-10)

Tot Ion: 98 Resp: 687314

Ion Ratio Lower Upper

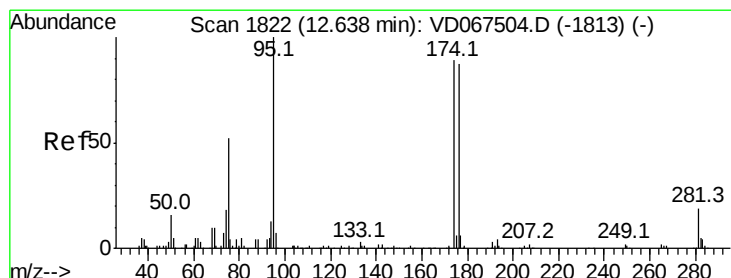
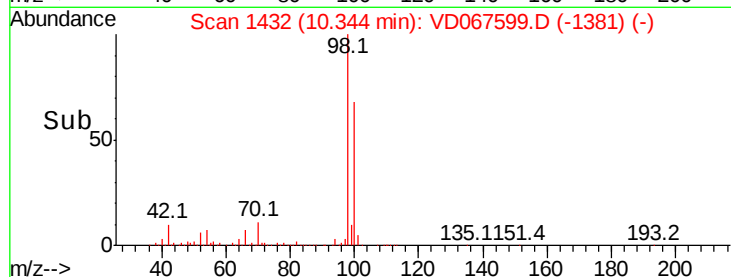
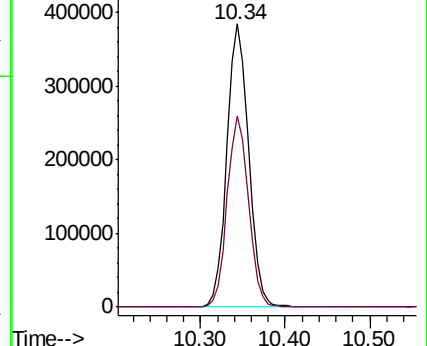
98 100

100 66.2 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#62

4-Bromofluorobenzene

Concen: 67.730 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD067599.D

Acq: 11 Nov 2020 13:46

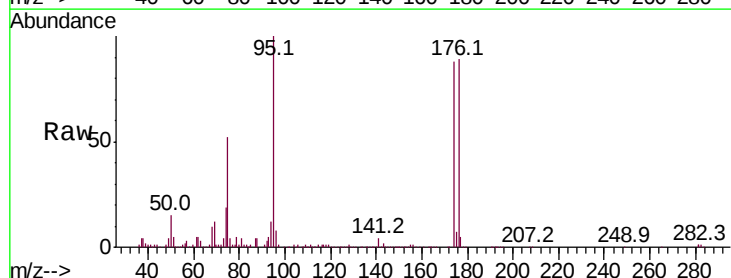
Tgt Ion: 95 Resp: 278001

Ion Ratio Lower Upper

95 100

174 87.5 0.0 177.8

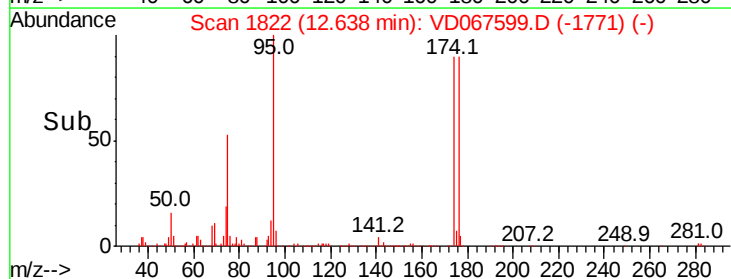
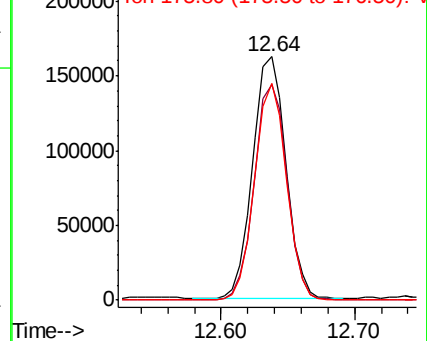
176 85.9 0.0 172.0

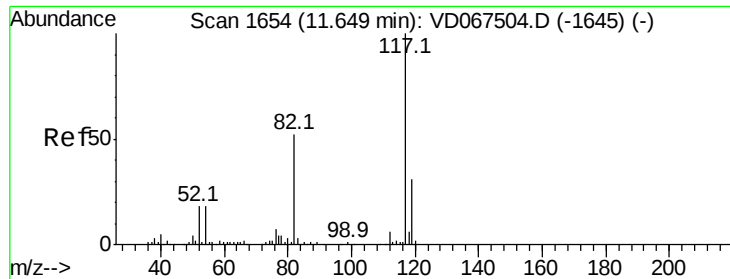


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC

Ion 175.80 (175.50 to 176.50): VDC

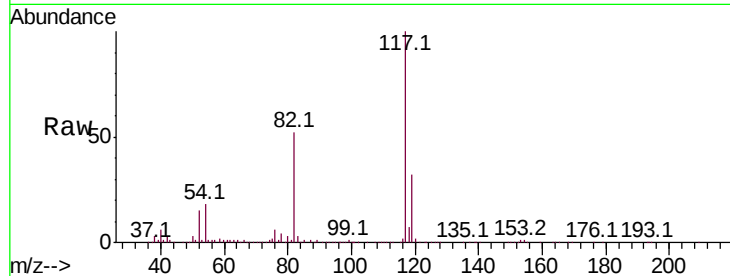




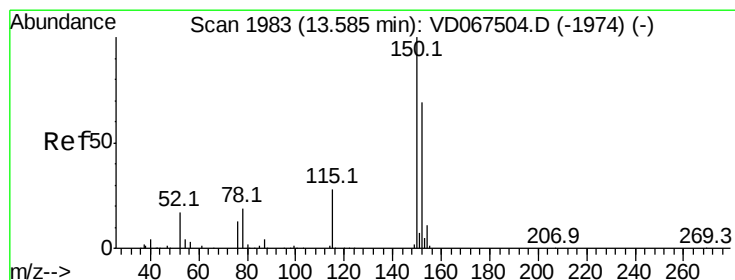
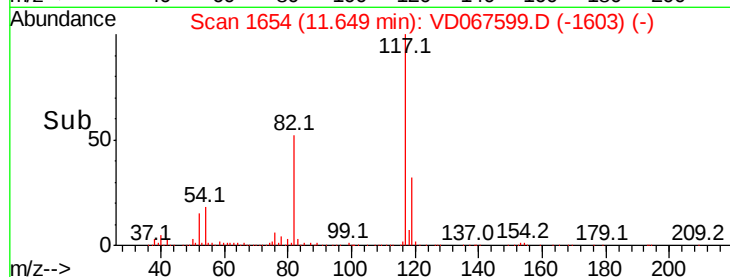
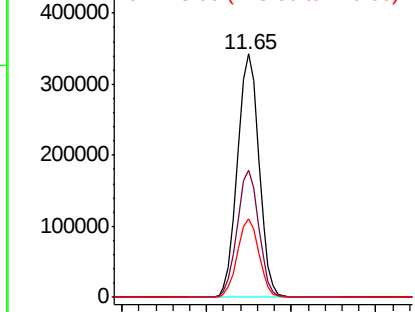
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD067599.D
Acq: 11 Nov 2020 13:46

Instrument :
MSVOA_D
ClientSampleId :
M-99(0-10)

Tot Ion	Ratio	Lower	Upper
117	100		
82	51.9	41.6	62.4
119	32.5	25.1	37.7

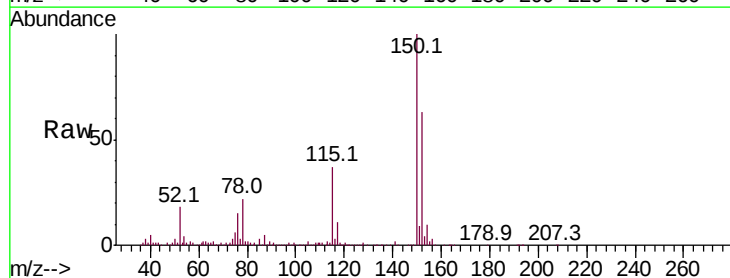


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

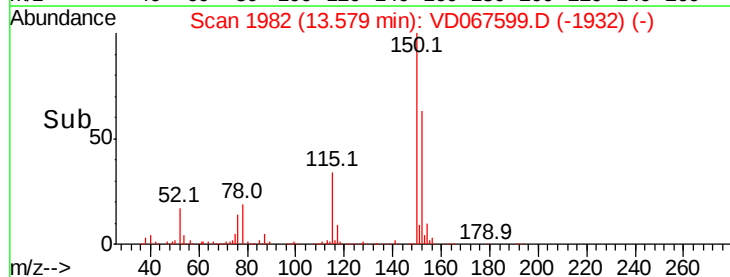
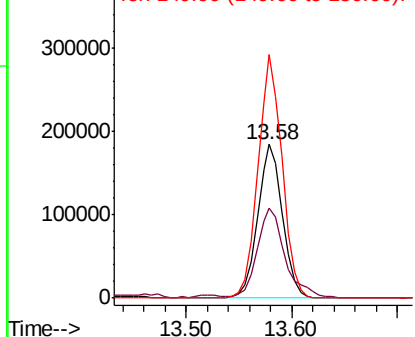


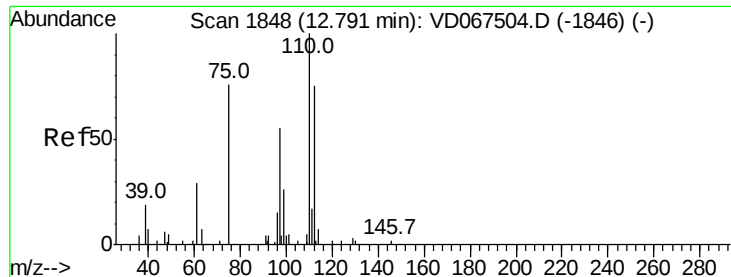
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.01 min
Lab File: VD067599.D
Acq: 11 Nov 2020 13:46

Tgt Ion	Ratio	Lower	Upper
152	100		
115	65.1	29.3	88.0
150	153.3	0.0	338.2



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: 78.552 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067599.D

Acq: 11 Nov 2020 13:46

Instrument :

MSVOA_D

ClientSampleId :

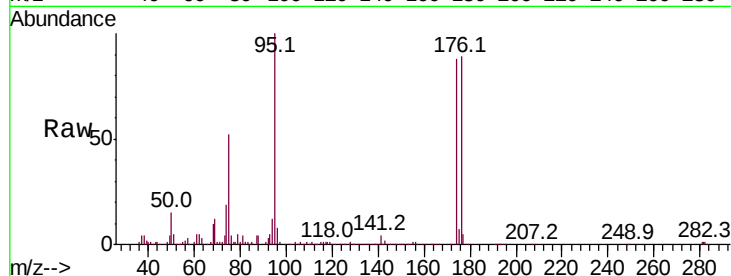
M-99(0-10)

Tot Ion: 75 Resp: 143184

Ion Ratio Lower Upper

75 100

77 2.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VD067504.D (-1846) (-)

Ion 77.00 (76.70 to 77.70): VD067504.D (-1846) (-)

12.64

80000

60000

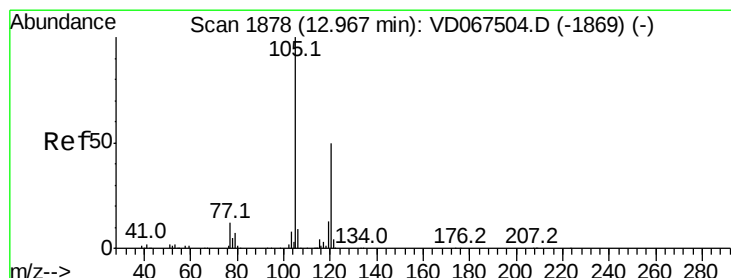
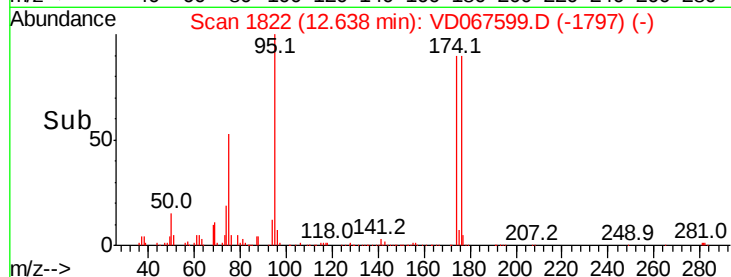
40000

20000

0

12.60 12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 2.898 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. -0.00 min

Lab File: VD067599.D

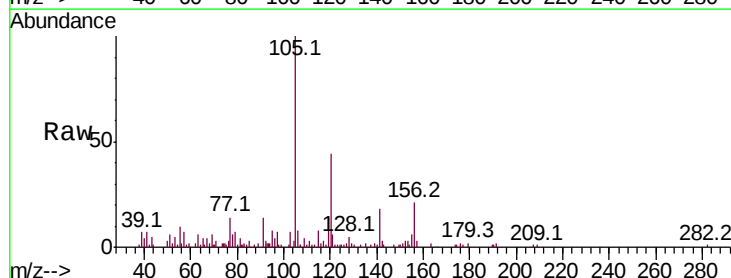
Acq: 11 Nov 2020 13:46

Tgt Ion: 105 Resp: 48338

Ion Ratio Lower Upper

105 100

120 48.9 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): VD067504.D (-1869) (-)

Ion 120.00 (119.70 to 120.70): VD067504.D (-1869) (-)

12.97

30000

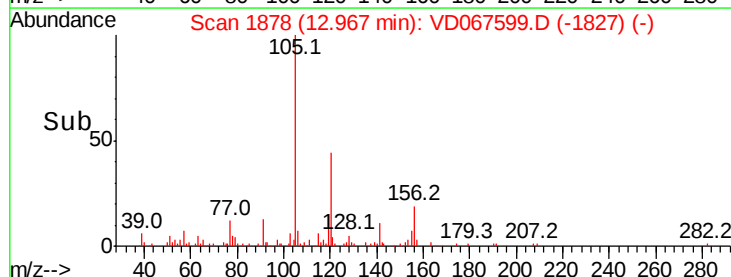
20000

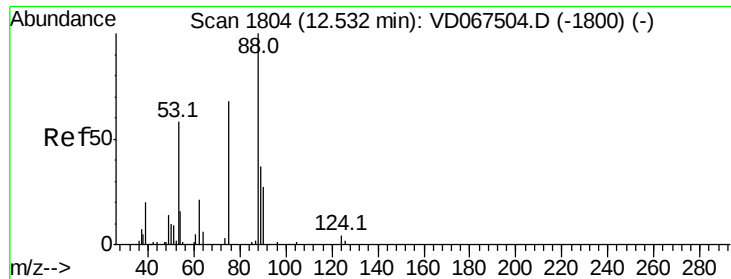
10000

0

12.90 12.95 13.00

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 159.481 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067599.D

Acq: 11 Nov 2020 13:46

Instrument :

MSVOA_D

ClientSampleId :

M-99(0-10)

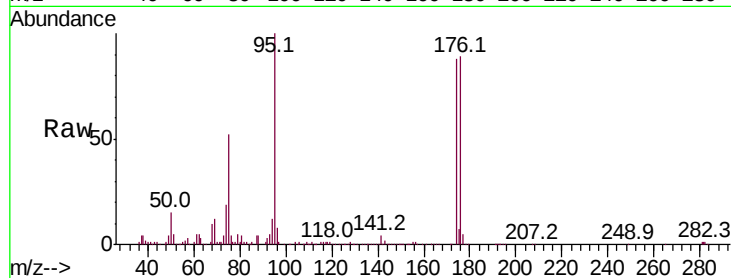
Tot Ion: 75 Resp: 143184

Ion Ratio Lower Upper

75 100

53 0.0 75.9 113.9#

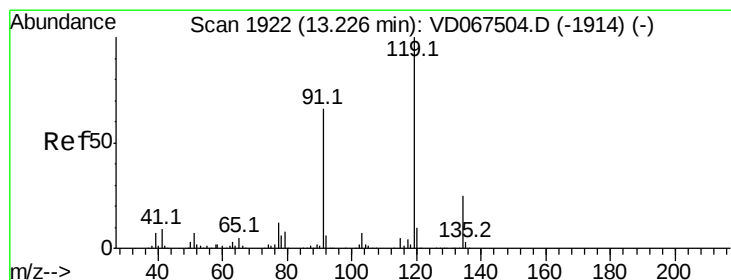
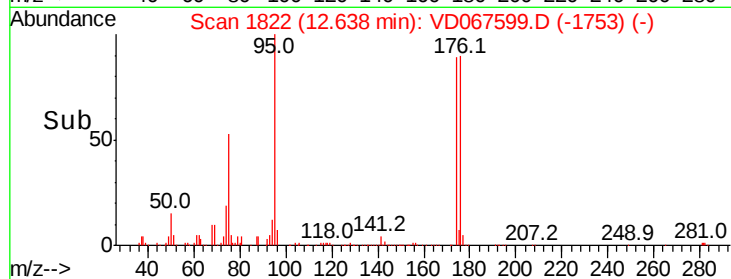
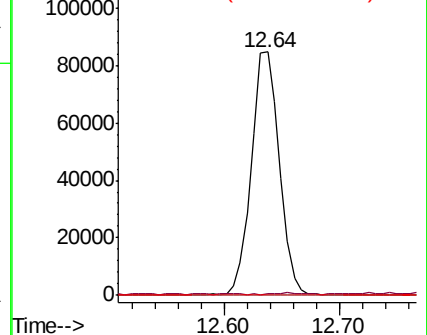
89 0.0 44.6 67.0#



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



#83

tert-Butylbenzene

Concen: 4.861 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. 0.05 min

Lab File: VD067599.D

Acq: 11 Nov 2020 13:46

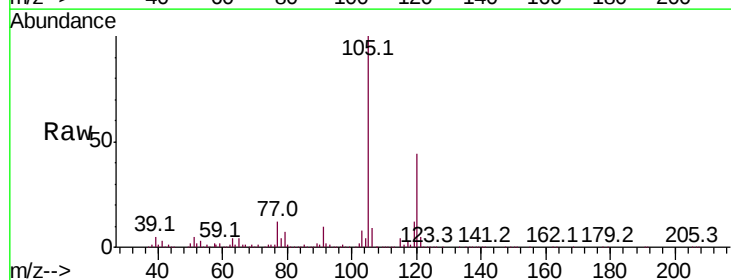
Tgt Ion: 119 Resp: 68726

Ion Ratio Lower Upper

119 100

91 83.8 32.7 98.1

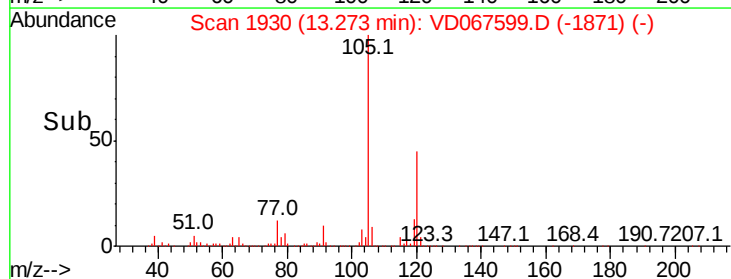
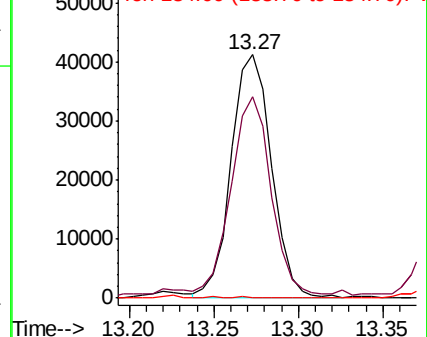
134 0.0 13.4 40.2#

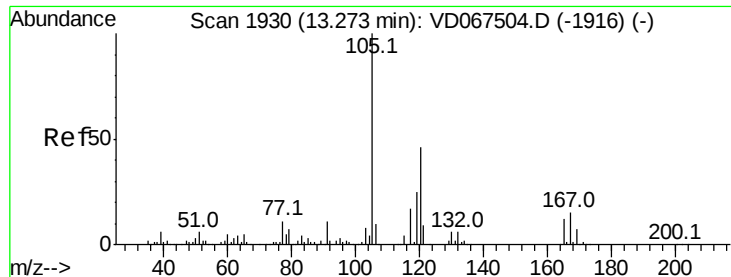


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VDC

Ion 134.00 (133.70 to 134.70): V

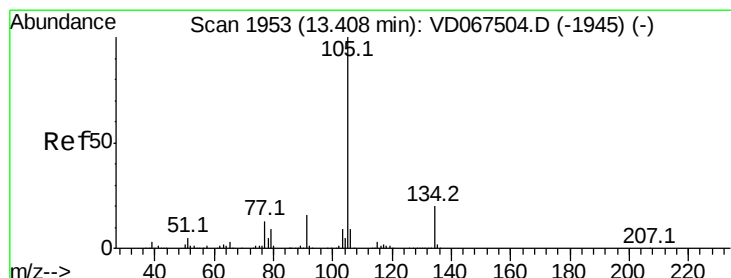
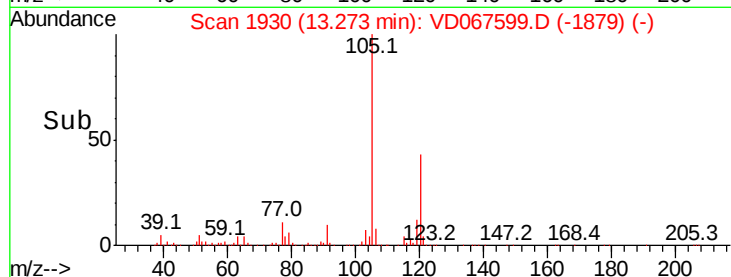
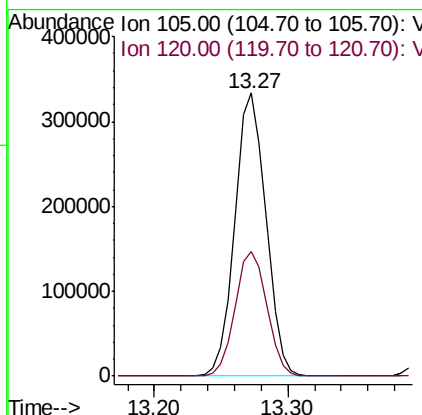
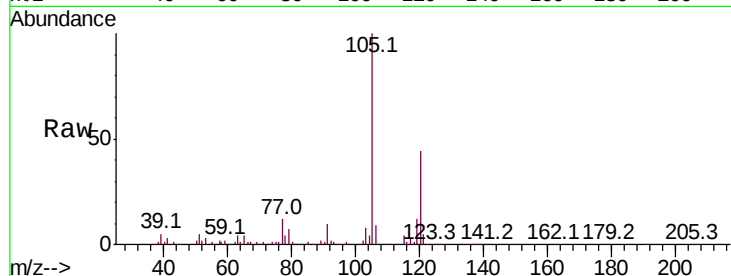




#84
1,2,4-Trimethylbenzene
Concen: 32.445 ug/l
RT: 13.27 min Scan# 1930
Delta R.T. -0.00 min
Lab File: VD067599.D
Acq: 11 Nov 2020 13:46

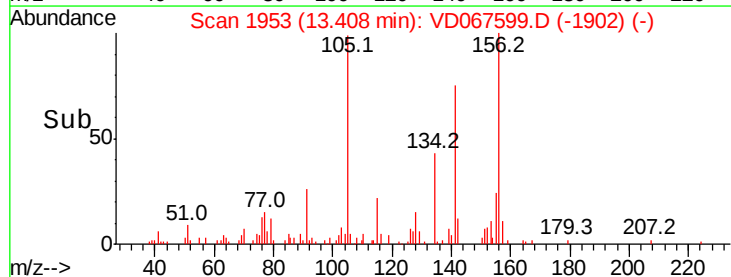
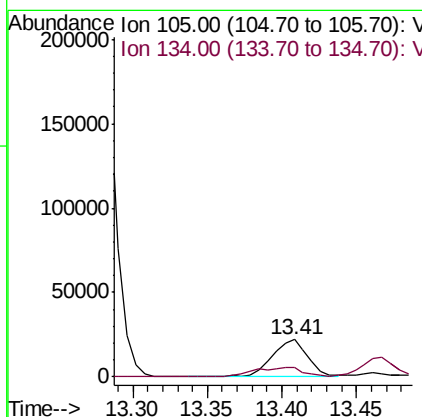
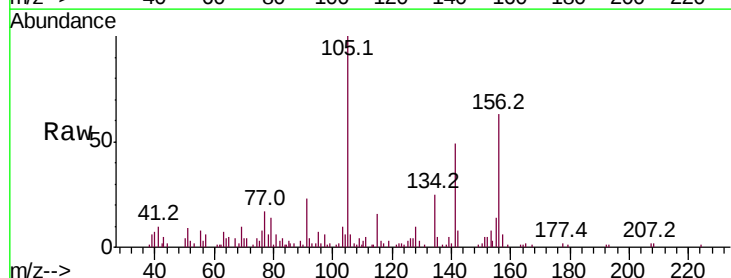
Instrument :
MSVOA_D
ClientSampleId :
M-99(0-10)

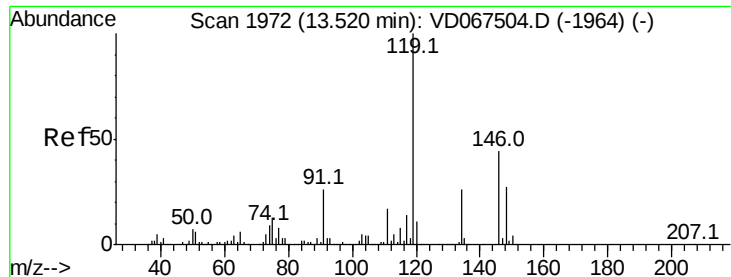
Tot Ion:105 Resp: 538759
Ion Ratio Lower Upper
105 100
120 45.0 22.1 66.1



#85
sec-Butylbenzene
Concen: 1.914 ug/l
RT: 13.41 min Scan# 1953
Delta R.T. -0.00 min
Lab File: VD067599.D
Acq: 11 Nov 2020 13:46

Tgt Ion:105 Resp: 36521
Ion Ratio Lower Upper
105 100
134 36.8 10.4 31.4#

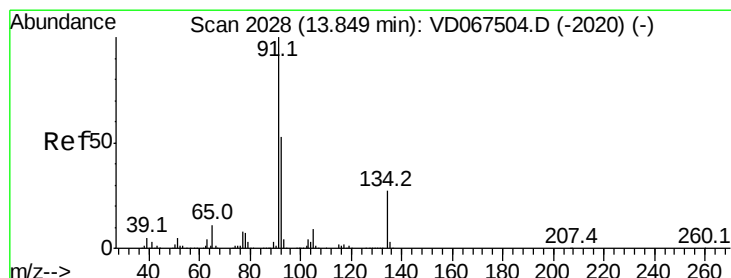
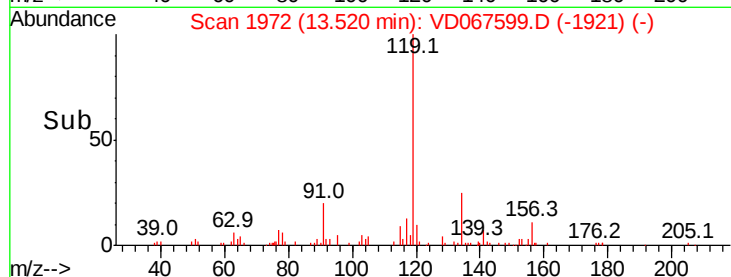
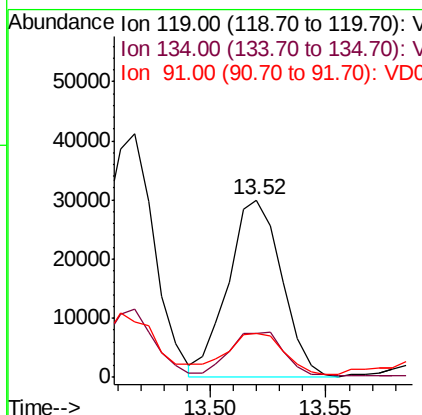
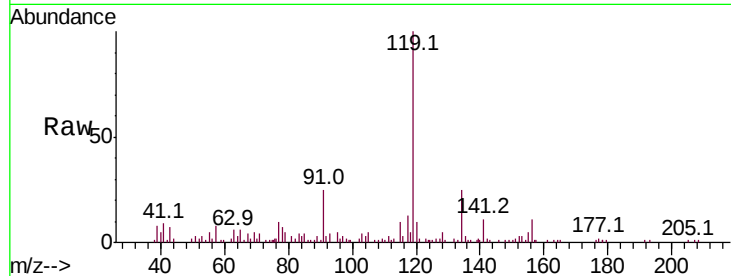




#86
 p-Isopropyltoluene
 Concen: 2.638 ug/l
 RT: 13.52 min Scan# 1972
 Delta R.T. -0.00 min
 Lab File: VD067599.D
 Acq: 11 Nov 2020 13:46

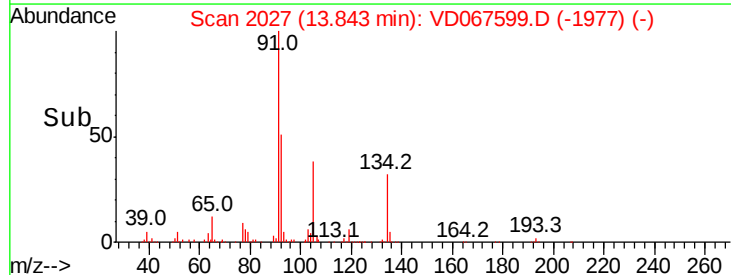
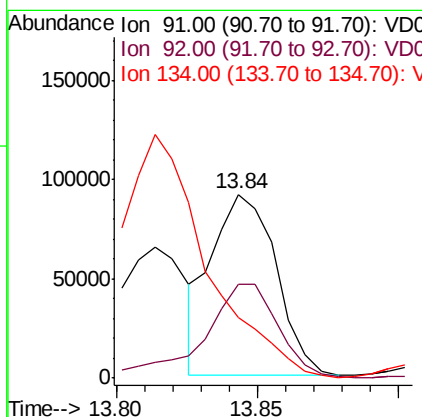
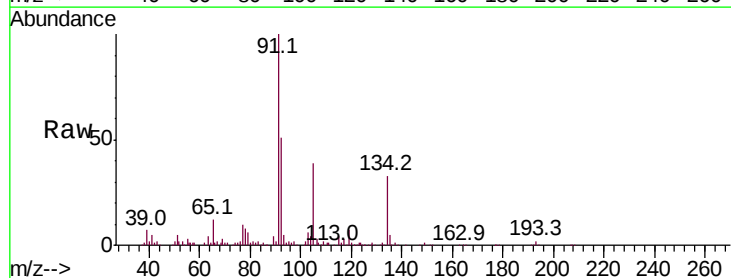
Instrument :
 MSVOA_D
 ClientSampleId :
 M-99(0-10)

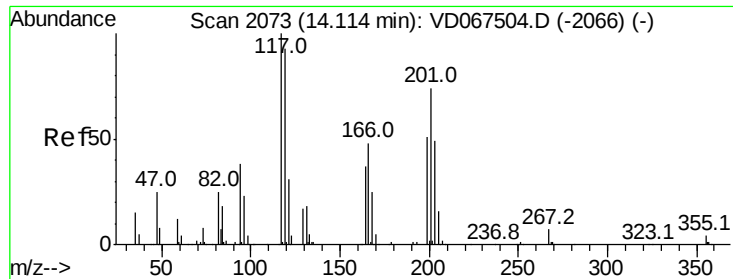
Tot Ion	Ratio	Lower	Upper
119	100		
134	25.9	13.1	39.3
91	24.7	12.2	36.4



#89
 n-Butylbenzene
 Concen: 9.005 ug/l
 RT: 13.84 min Scan# 2027
 Delta R.T. -0.01 min
 Lab File: VD067599.D
 Acq: 11 Nov 2020 13:46

Tgt Ion	Ratio	Lower	Upper
91	100		
92	60.2	26.6	79.8
134	0.0	14.1	42.2





#90

Hexachloroethane

Concen: 23.811 ug/l

RT: 14.12 min Scan# 2074

Delta R.T. 0.01 min

Lab File: VD067599.D

Acq: 11 Nov 2020 13:46

Instrument :

MSVOA_D

ClientSampleId :

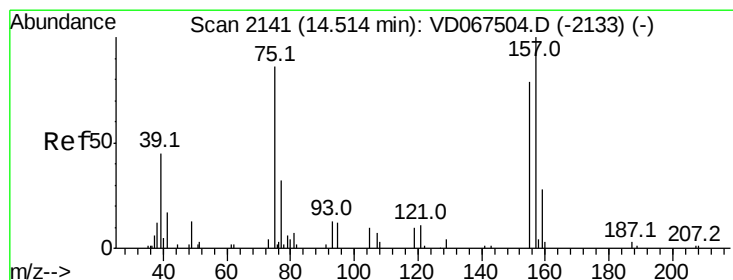
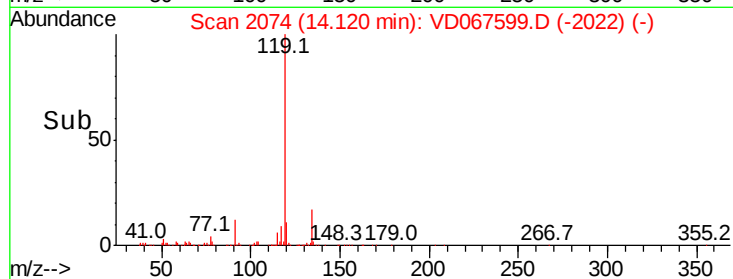
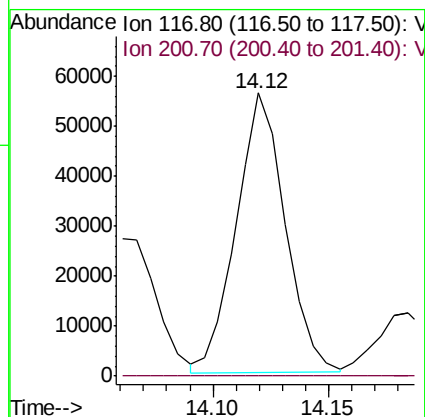
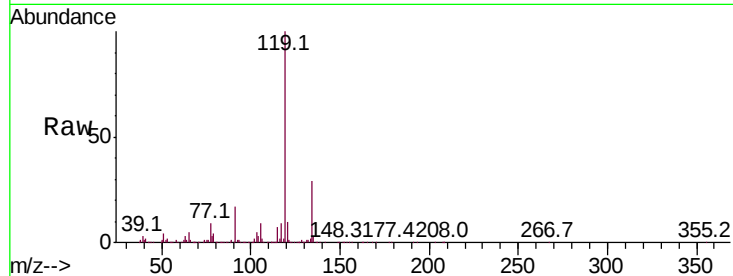
M-99(0-10)

Tot Ion:117 Resp: 82642

Ion Ratio Lower Upper

117 100

201 0.0 40.7 122.1#



#92

1,2-Dibromo-3-Chloropropane

Concen: 3.780 ug/l

RT: 14.53 min Scan# 2143

Delta R.T. 0.01 min

Lab File: VD067599.D

Acq: 11 Nov 2020 13:46

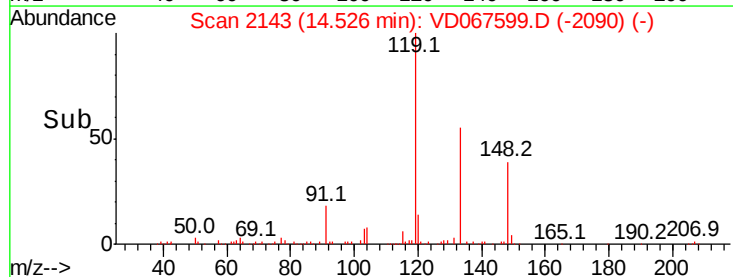
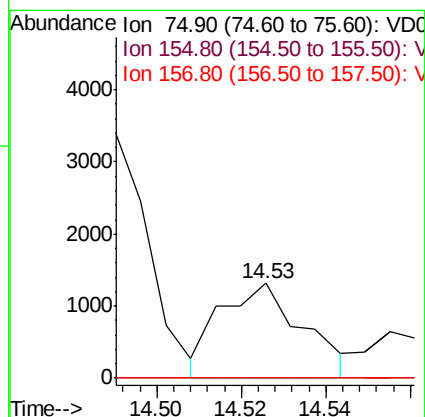
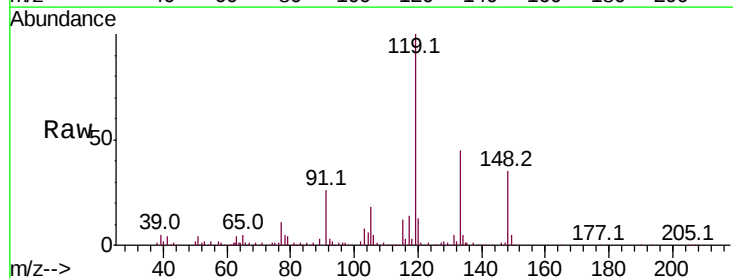
Tgt Ion: 75 Resp: 1782

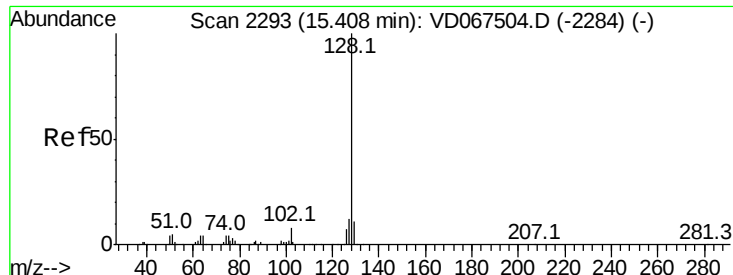
Ion Ratio Lower Upper

75 100

155 0.0 46.6 139.8#

157 0.0 58.1 174.2#

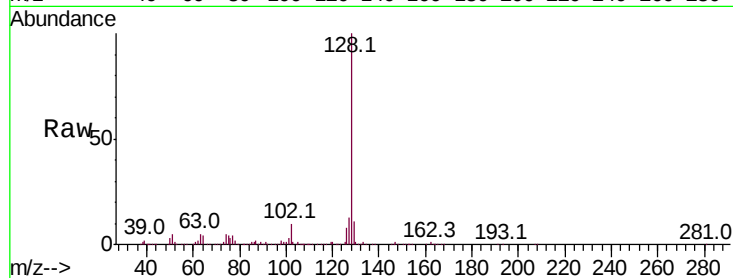




#95
Naphthalene
Concen: 84.455 ug/l
RT: 15.40 min Scan# 2292
Delta R.T. -0.01 min
Lab File: VD067599.D
Acq: 11 Nov 2020 13:46

Instrument :
MSVOA_D
ClientSampleId :
M-99(0-10)

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.2	15.4
129	11.0	8.9	13.3



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

