

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD091420\
 Data File : VD066674.D
 Acq On : 14 Sep 2020 15:38
 Operator : VA/SY
 Sample : L3928-08
 Misc : 6.34G/5.00ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Sep 15 01:26:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D090320S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 04 01:57:04 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	581097	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	1009663	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	972635	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	443900	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	301243	42.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.70%	
35) Dibromofluoromethane	7.91	113	316129	46.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.82%	
50) Toluene-d8	10.34	98	1227882	50.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.88%	
62) 4-Bromofluorobenzene	12.63	95	444597	55.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.16%	

Target Compounds

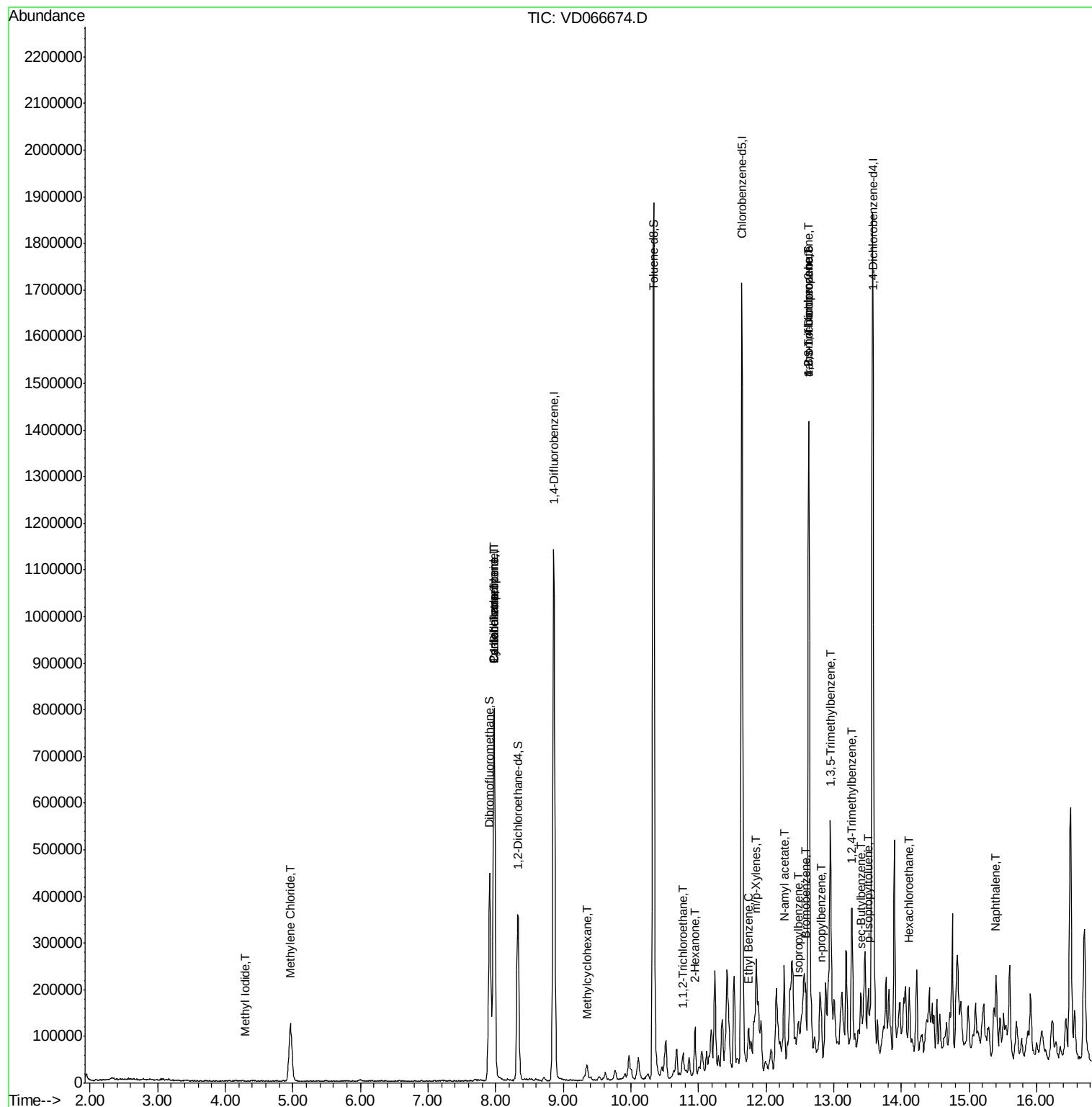
					Qvalue	
2) Dichlorodifluoromethane	1.99	85	506	Below Cal		83
5) Bromomethane	2.78	94	282	Below Cal	#	69
10) Methyl Iodide	4.30	142	109	4.040	ug/l #	35
20) Methylene Chloride	4.97	84	97034	8.235	ug/l	88
31) Cyclohexane	7.98	56	14702	1.282	ug/l #	5
36) 1,1-Dichloropropene	7.97	75	46017	4.379	ug/l #	50
38) Carbon Tetrachloride	7.98	117	62845	5.658	ug/l #	17
39) Methylcyclohexane	9.35	83	12472	1.063	ug/l #	61
55) 1,1,2-Trichloroethane	10.77	97	19571	3.812	ug/l #	24
59) 2-Hexanone	10.95	43	37925	13.946	ug/l #	32
67) Ethyl Benzene	11.74	91	40965	1.111	ug/l	94
68) m/p-Xylenes	11.85	106	24034	1.756	ug/l	94
73) Isopropylbenzene	12.48	105	35238	1.072	ug/l	98
74) N-amyl acetate	12.27	43	44013	5.913	ug/l #	75
76) 1,2,3-Trichloropropane	12.63	75	235669	55.203	ug/l #	100
77) Bromobenzene	12.59	156	15371	2.098	ug/l #	1
78) n-propylbenzene	12.82	91	51062	1.282	ug/l	94
80) 1,3,5-Trimethylbenzene	12.96	105	40867	1.477	ug/l	87
81) trans-1,4-Dichloro-2-buten	12.63	75	235669	128.880	ug/l #	7
84) 1,2,4-Trimethylbenzene	13.27	105	180446	6.552	ug/l	98
85) sec-Butylbenzene	13.40	105	51167	1.572	ug/l	92
86) p-Isopropyltoluene	13.52	119	29769	1.016	ug/l	97
90) Hexachloroethane	14.11	117	7009	1.110	ug/l #	20
95) Naphthalene	15.40	128	138580	10.393	ug/l	99

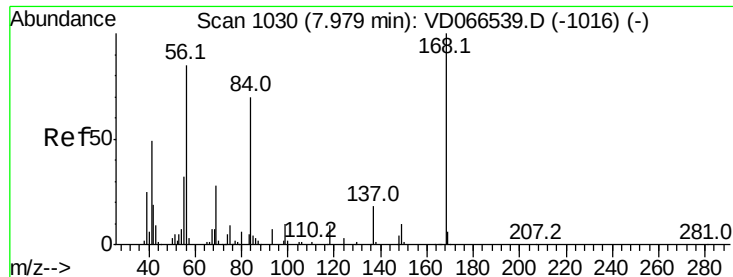
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Sep 04 01:57:04 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VD066674.D

Acq: 14 Sep 2020 15:38

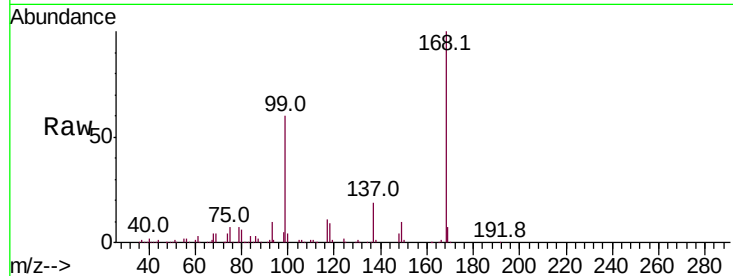
Instrument :
MSVOA_D
ClientSampled :

Tot Ion:168 Resp: 581097

Ion Ratio Lower Upper

168 100

99 59.9 50.5 75.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

250000

200000

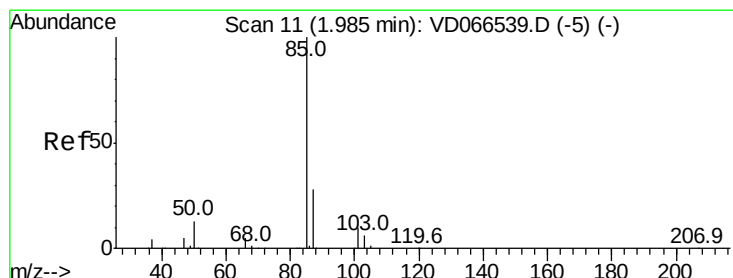
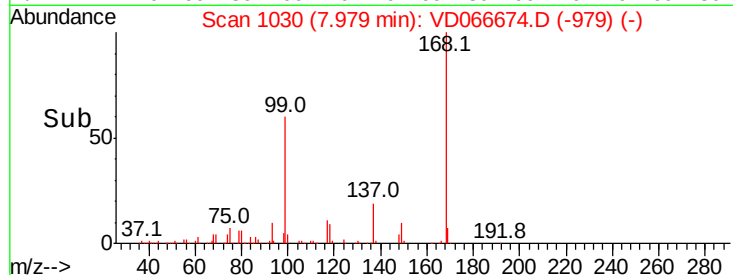
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD066674.D

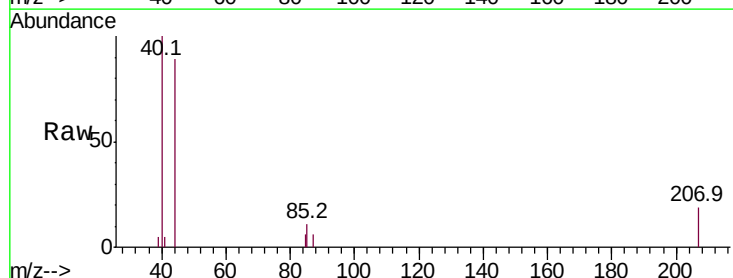
Acq: 14 Sep 2020 15:38

Tgt Ion: 85 Resp: 506

Ion Ratio Lower Upper

85 100

87 37.5 14.2 42.6



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

600

500

400

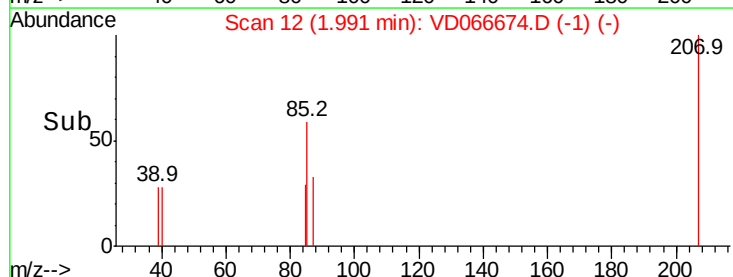
300

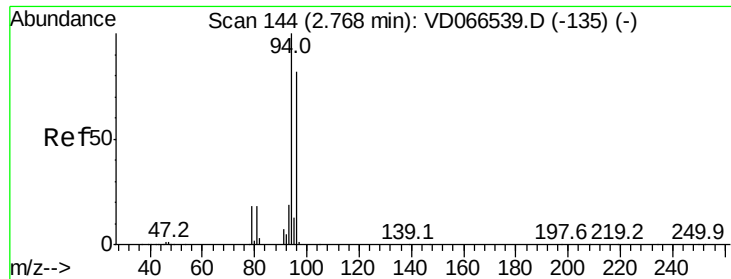
200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 147

Delta R.T. 0.02 min

Lab File: VD066674.D

Acq: 14 Sep 2020 15:38

Instrument :

MSVOA_D

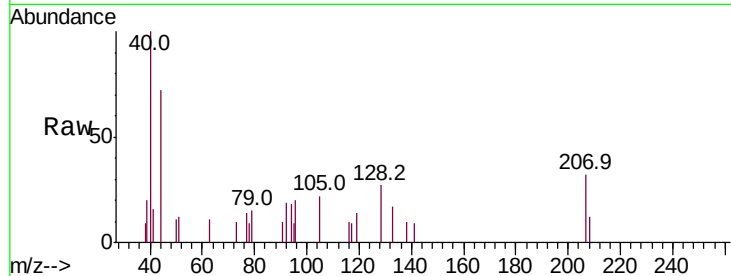
ClientSampled :

Tot Ion: 94 Resp: 282

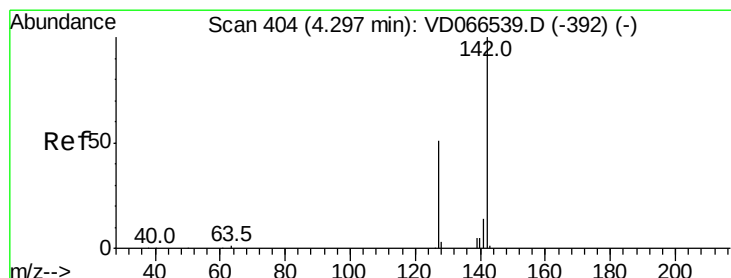
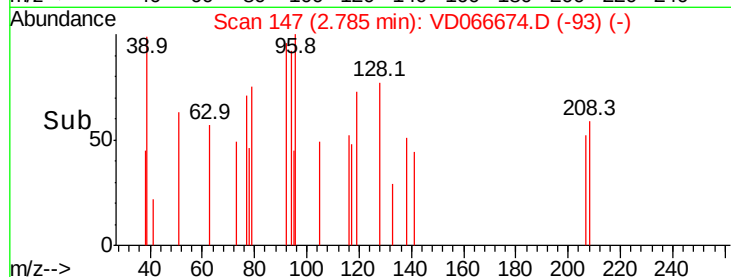
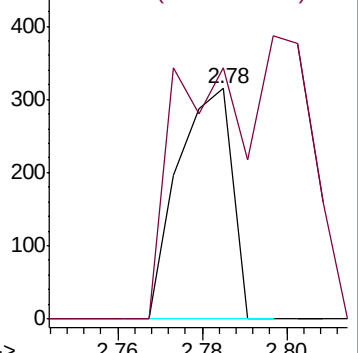
Ion Ratio Lower Upper

94 100

96 108.9 65.2 97.8#



Abundance Ion 93.90 (93.60 to 94.60): VDC



#10

Methyl Iodide

Concen: 4.040 ug/l

RT: 4.30 min Scan# 404

Delta R.T. 0.00 min

Lab File: VD066674.D

Acq: 14 Sep 2020 15:38

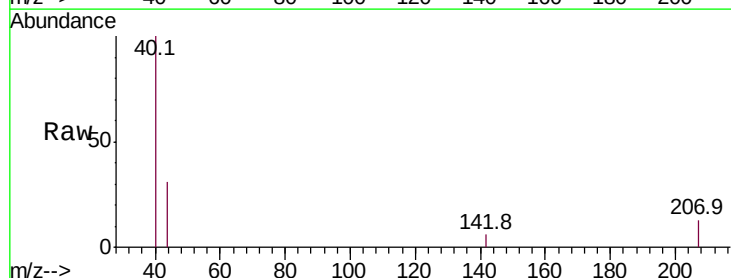
Tgt Ion: 142 Resp: 109

Ion Ratio Lower Upper

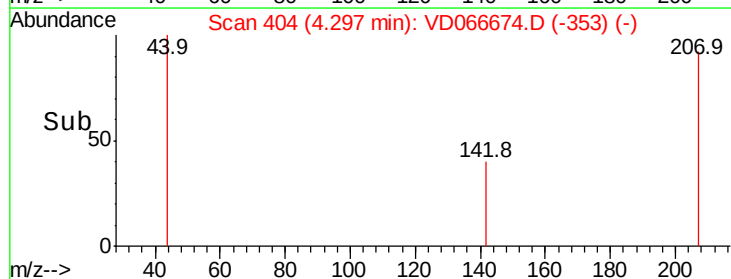
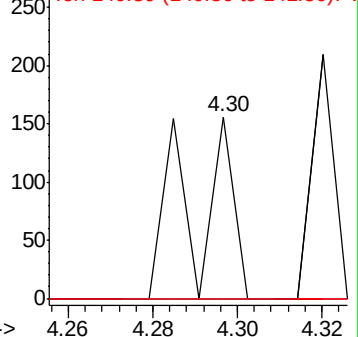
142 100

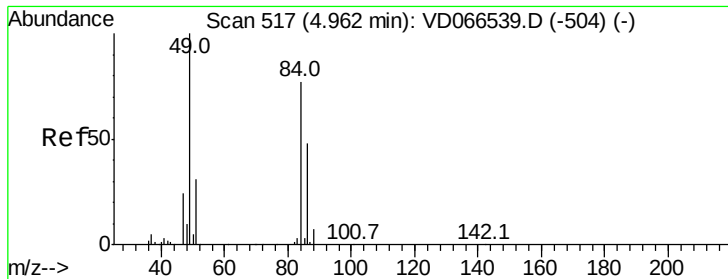
127 0.0 40.6 61.0#

141 0.0 12.2 18.4#



Abundance Ion 141.80 (141.50 to 142.50): V

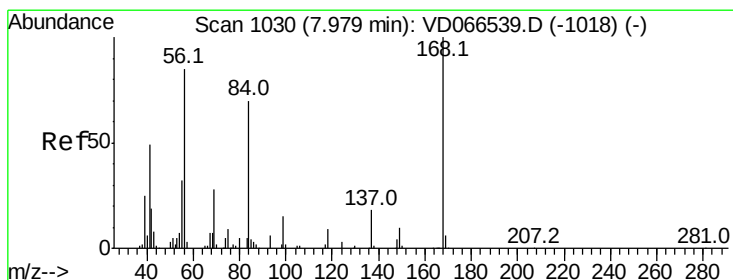
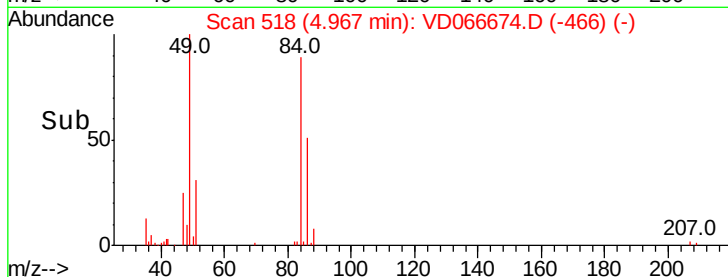
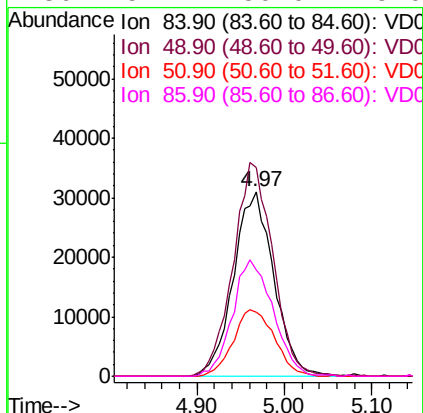
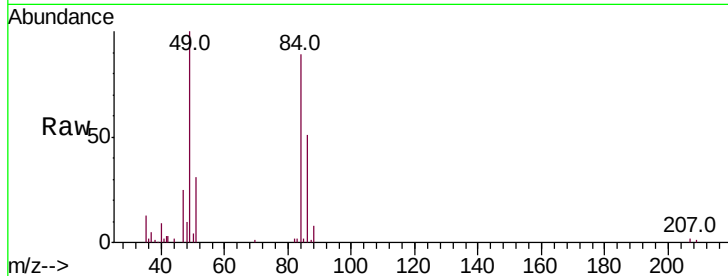




#20
Methylene Chloride
Concen: 8.235 ug/l
RT: 4.97 min Scan# 518
Delta R.T. 0.01 min
Lab File: VD066674.D
Acq: 14 Sep 2020 15:38

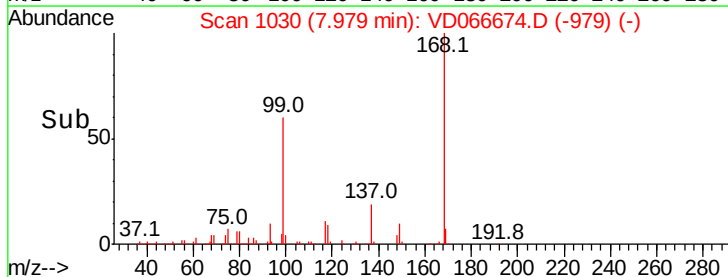
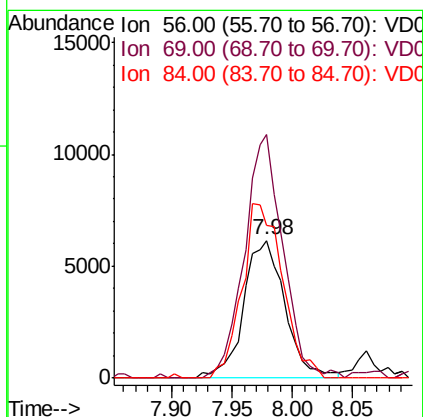
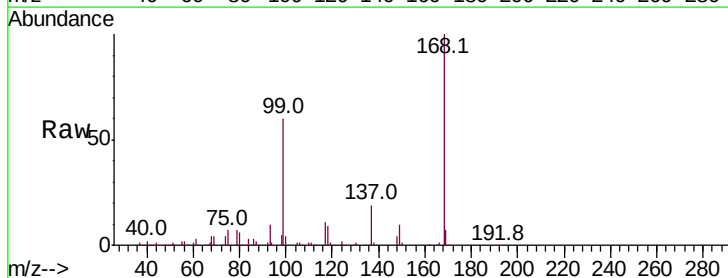
Instrument :
MSVOA_D
ClientSampled :

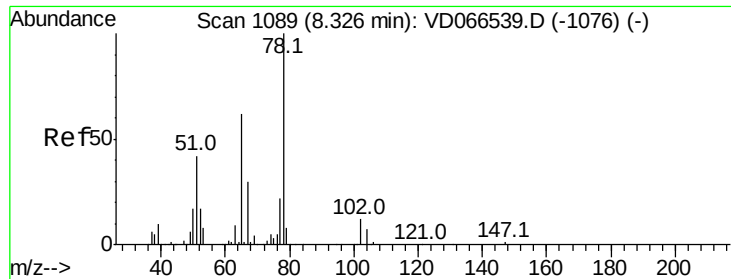
Tot Ion: 84 Resp: 97034
Ion Ratio Lower Upper
84 100
49 112.9 104.3 156.5
51 34.8 32.2 48.4
86 57.7 50.0 75.0



#31
Cyclohexane
Concen: 1.282 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VD066674.D
Acq: 14 Sep 2020 15:38

Tgt Ion: 56 Resp: 14702
Ion Ratio Lower Upper
56 100
69 176.9 26.3 39.5#
84 110.7 66.1 99.1#

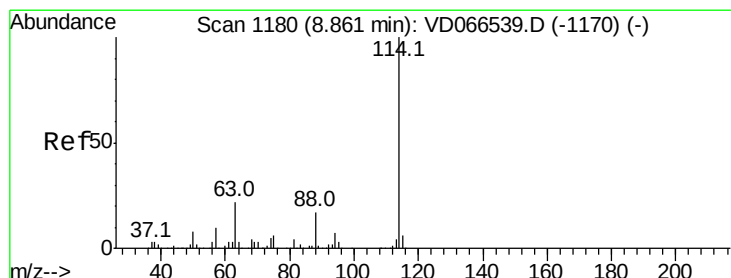
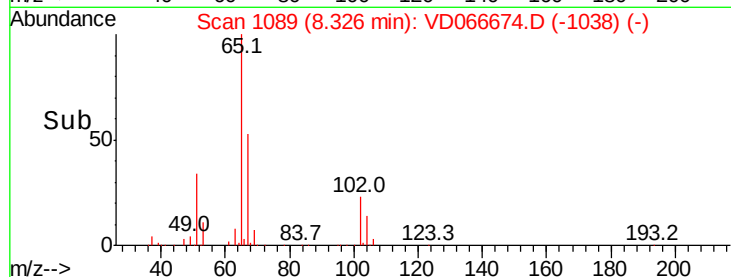
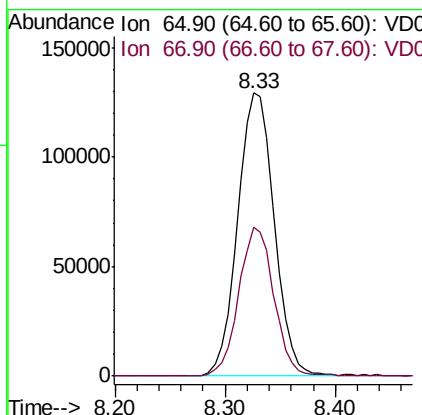
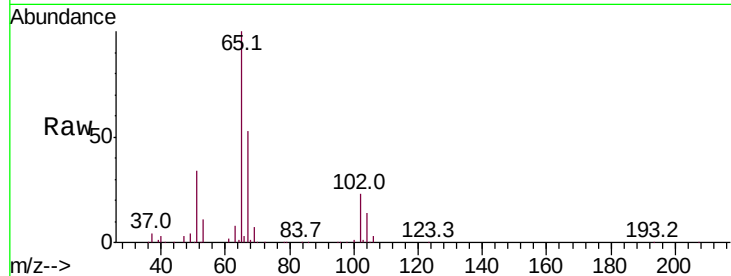




#33
 1,2-Dichloroethane-d4
 Concen: 42.847 ug/l
 RT: 8.33 min Scan# 1089
 Delta R.T. -0.00 min
 Lab File: VD066674.D
 Acq: 14 Sep 2020 15:38

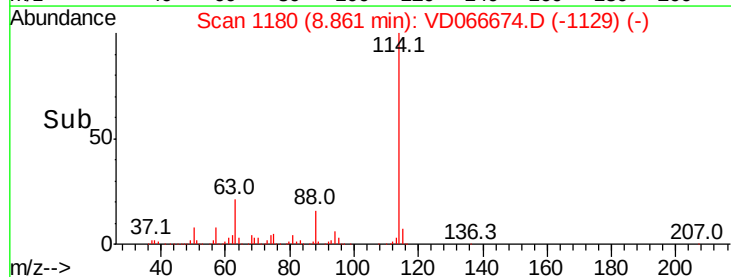
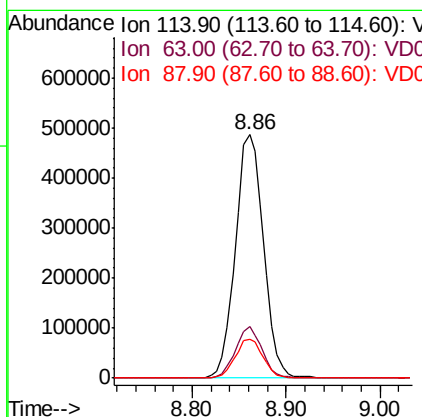
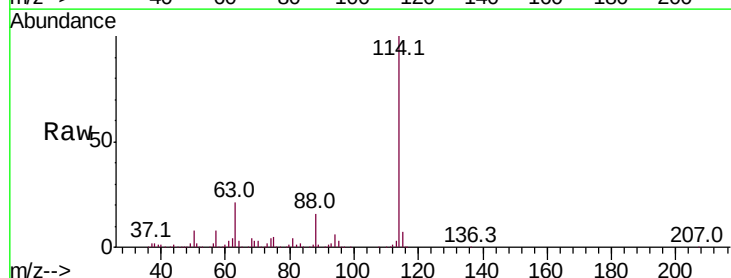
Instrument :
 MSVOA_D
 ClientSampled :

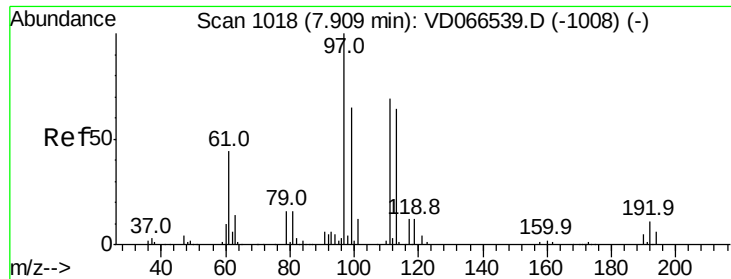
Tot Ion: 65 Resp: 301243
 Ion Ratio Lower Upper
 65 100
 67 50.8 0.0 102.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.86 min Scan# 1180
 Delta R.T. -0.00 min
 Lab File: VD066674.D
 Acq: 14 Sep 2020 15:38

Tgt Ion:114 Resp: 1009663
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 43.2
 88 15.8 0.0 33.2

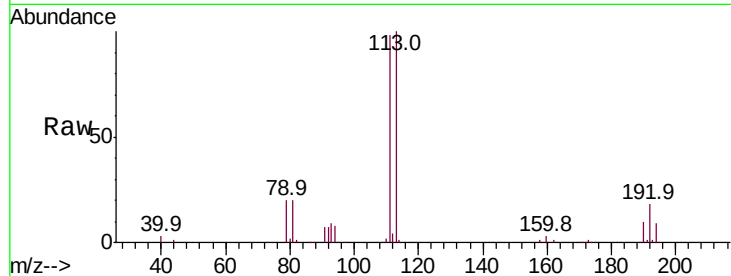




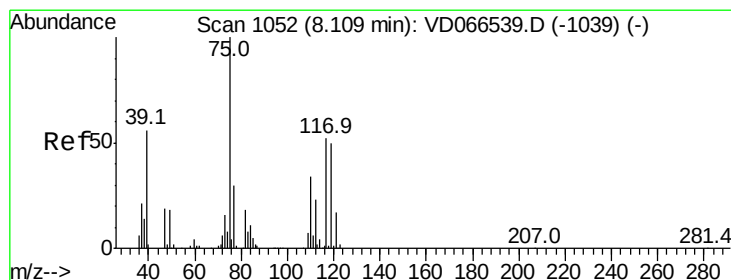
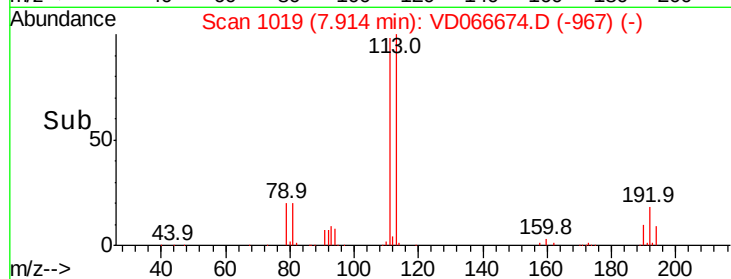
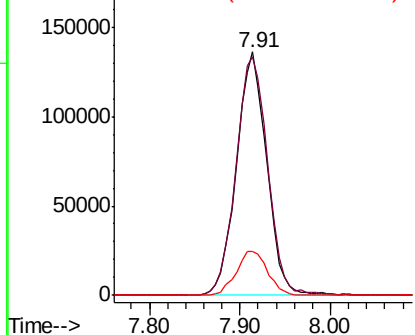
#35
 Dibromofluoromethane
 Concen: 46.413 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. 0.01 min
 Lab File: VD066674.D
 Acq: 14 Sep 2020 15:38

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.9	83.2	124.8
192	18.8	13.7	20.5

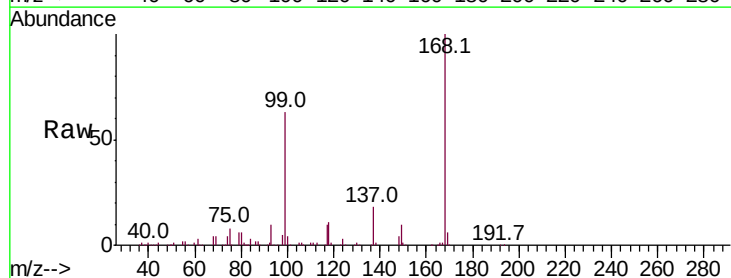


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

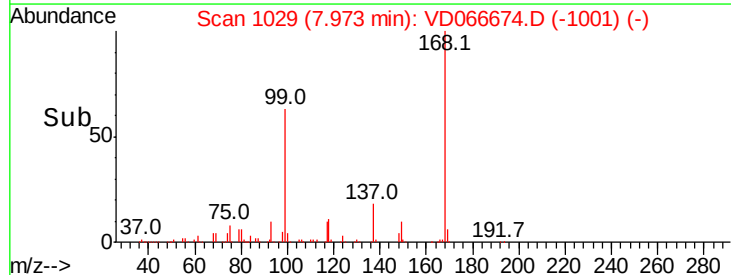
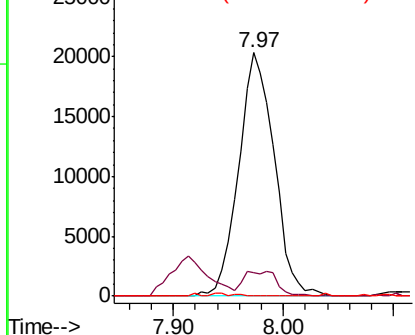


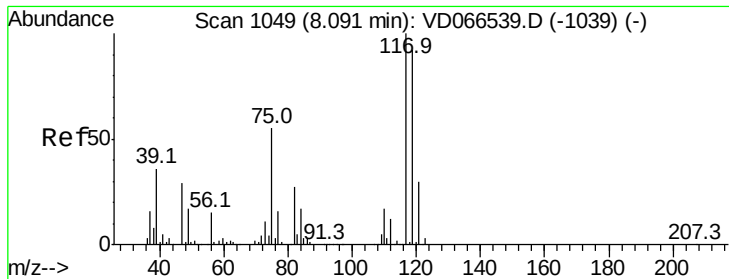
#36
 1,1-Dichloropropene
 Concen: 4.379 ug/l
 RT: 7.97 min Scan# 1029
 Delta R.T. -0.14 min
 Lab File: VD066674.D
 Acq: 14 Sep 2020 15:38

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.6	17.3	52.0#
77	0.0	25.1	37.7#



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: 5.658 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.11 min

Lab File: VD066674.D

Acq: 14 Sep 2020 15:38

Instrument :

MSVOA_D

ClientSampleId :

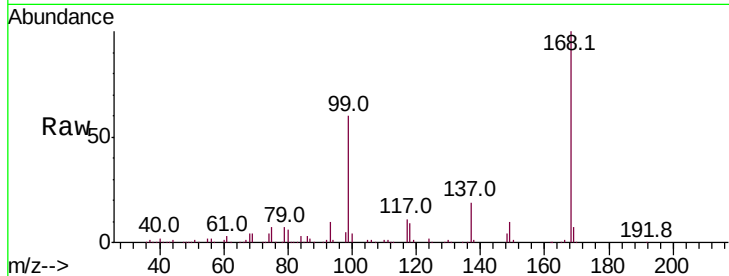
Tot Ion:117 Resp: 62845

Ion Ratio Lower Upper

117 100

119 5.0 73.9 110.9#

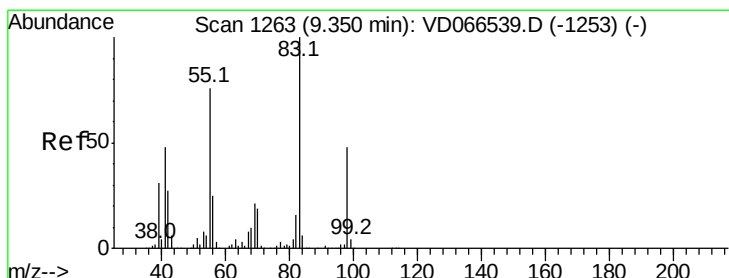
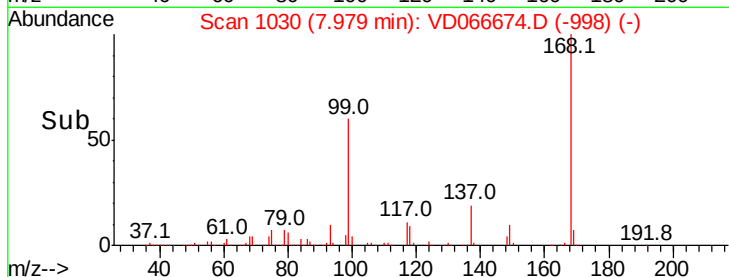
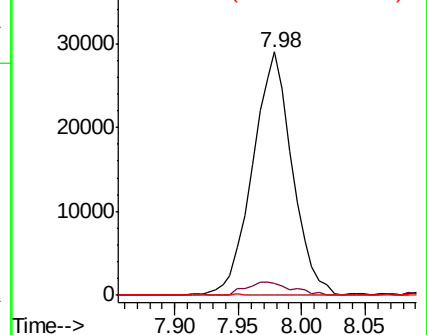
121 0.0 24.1 36.1#



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



#39

Methylcyclohexane

Concen: 1.063 ug/l

RT: 9.35 min Scan# 1263

Delta R.T. -0.00 min

Lab File: VD066674.D

Acq: 14 Sep 2020 15:38

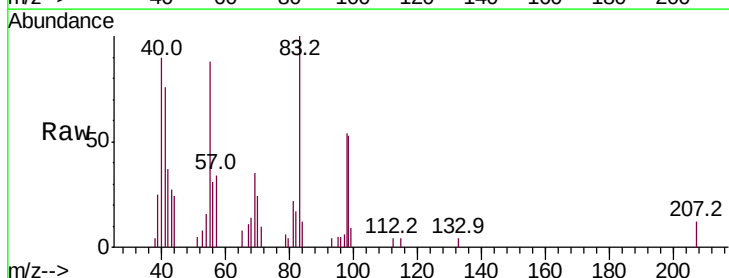
Tgt Ion: 83 Resp: 12472

Ion Ratio Lower Upper

83 100

55 84.0 60.8 91.2

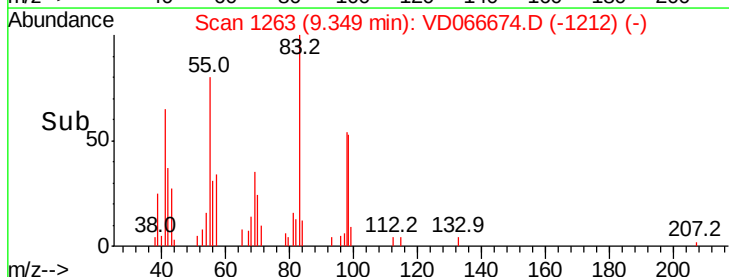
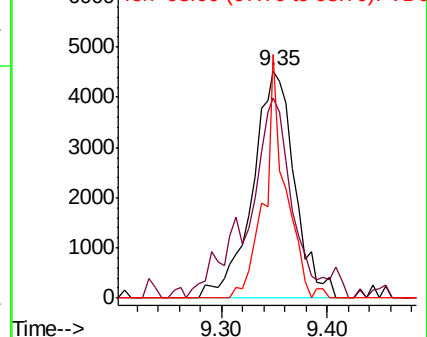
98 107.0 38.6 58.0#

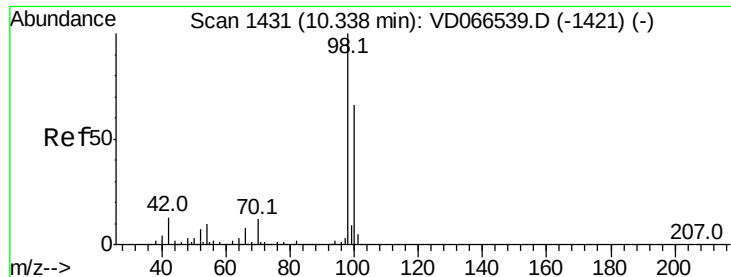


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 98.00 (97.70 to 98.70): V

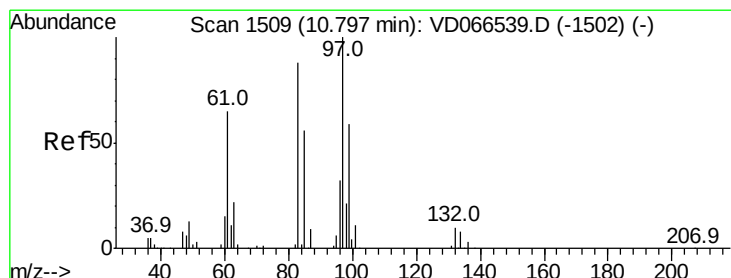
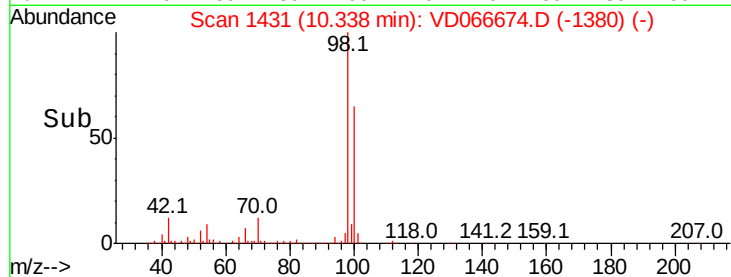
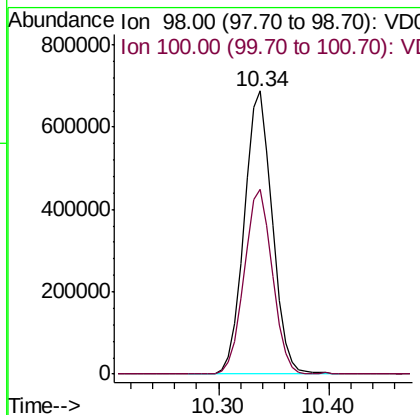
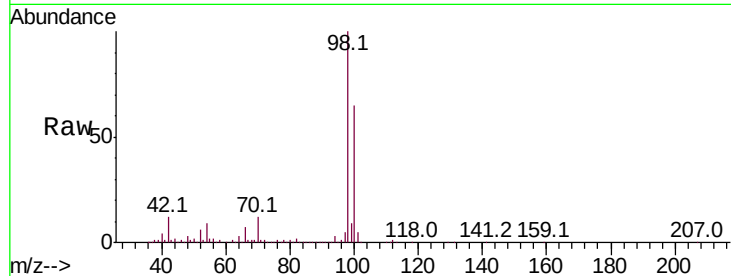




#50
Toluene-d8
Concen: 50.438 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. -0.00 min
Lab File: VD066674.D
Acq: 14 Sep 2020 15:38

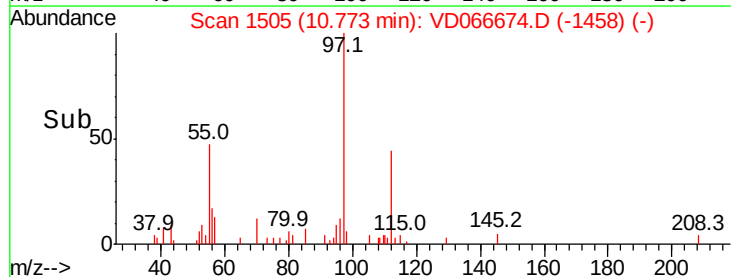
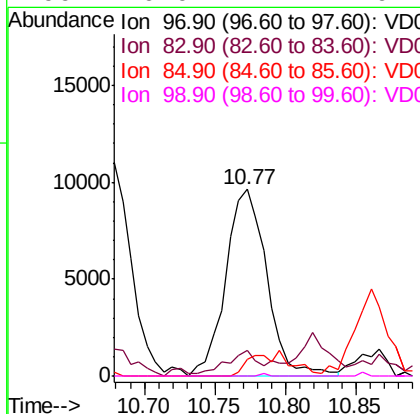
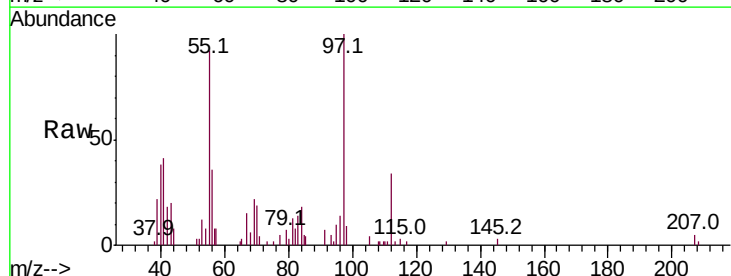
Instrument :
MSVOA_D
ClientSampleId :

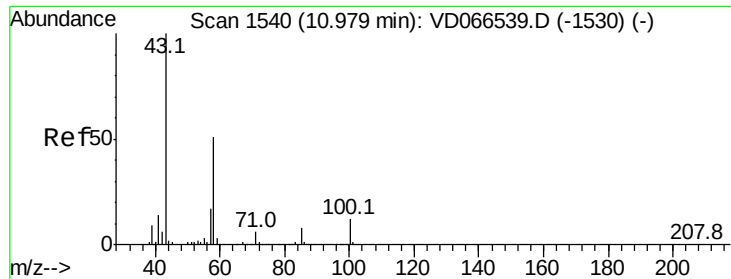
Tot Ion: 98 Resp: 1227882
Ion Ratio Lower Upper
98 100
100 66.1 52.9 79.3



#55
1,1,2-Trichloroethane
Concen: 3.812 ug/l
RT: 10.77 min Scan# 1505
Delta R.T. -0.02 min
Lab File: VD066674.D
Acq: 14 Sep 2020 15:38

Tgt Ion: 97 Resp: 19571
Ion Ratio Lower Upper
97 100
83 12.2 70.1 105.1#
85 9.3 44.5 66.7#
99 0.0 47.1 70.7#





#59

2-Hexanone

Concen: 13.946 ug/l

RT: 10.95 min Scan# 1535

Delta R.T. -0.03 min

Lab File: VD066674.D

Acq: 14 Sep 2020 15:38

Instrument :

MSVOA_D

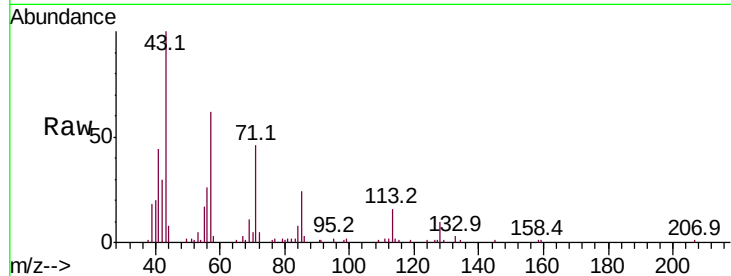
ClientSampled :

Tot Ion: 43 Resp: 37925

Ion Ratio Lower Upper

43 100

58 3.5 25.6 76.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

25000

20000

15000

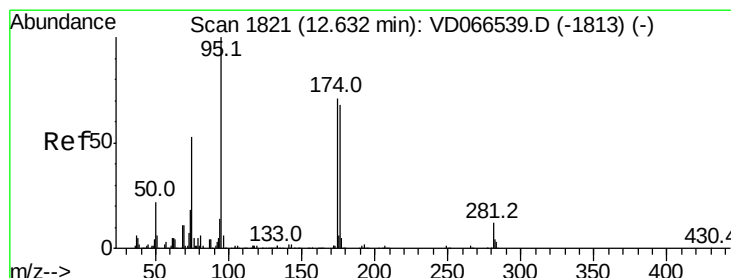
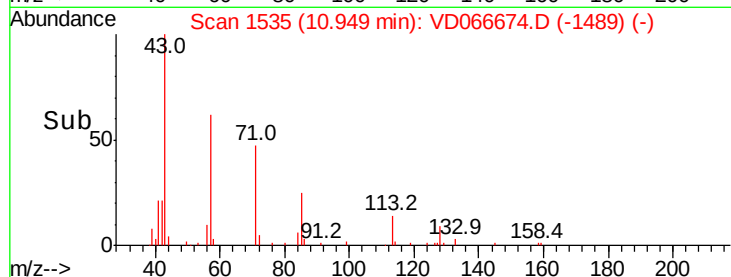
10000

5000

0

10.90 10.95 11.00

Time-->



#62

4-Bromofluorobenzene

Concen: 55.076 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.00 min

Lab File: VD066674.D

Acq: 14 Sep 2020 15:38

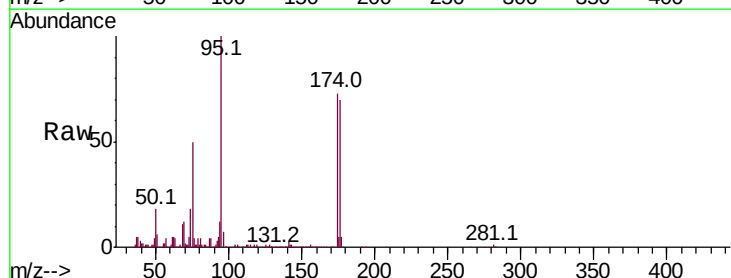
Tgt Ion: 95 Resp: 444597

Ion Ratio Lower Upper

95 100

174 77.5 0.0 155.8

176 74.6 0.0 148.6



Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

300000

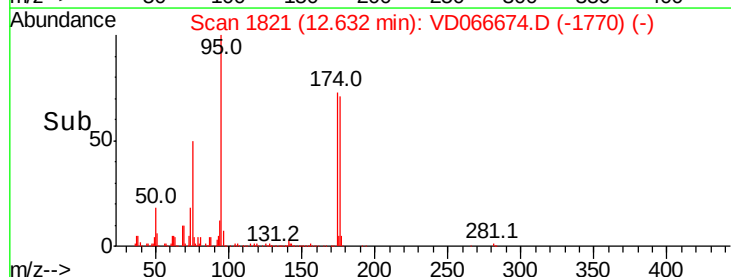
200000

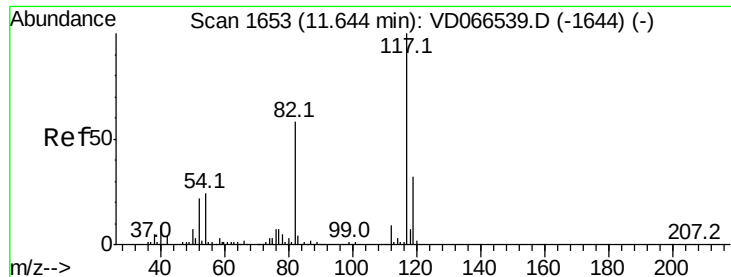
100000

0

12.55 12.60 12.65 12.70

Time-->

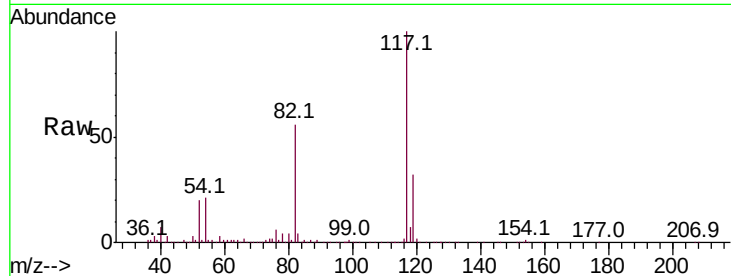




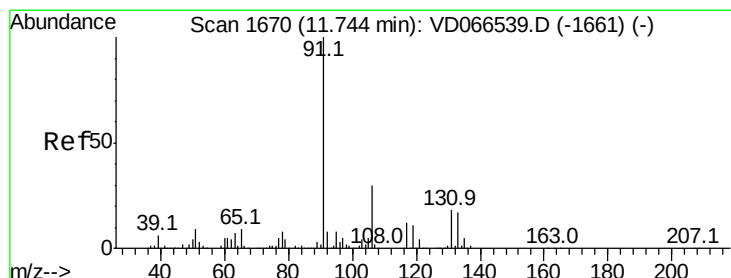
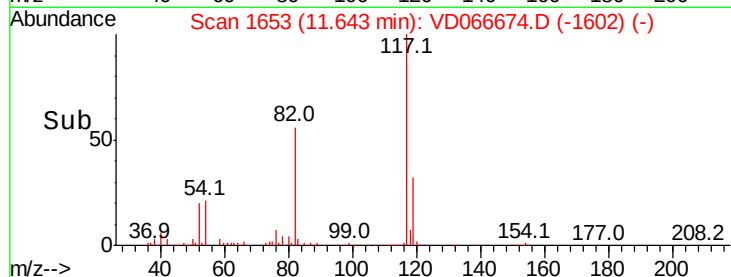
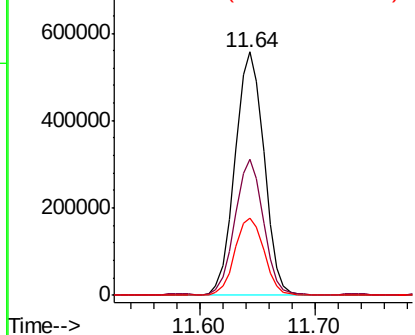
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VD066674.D
Acq: 14 Sep 2020 15:38

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 972635
Ion Ratio Lower Upper
117 100
82 55.8 46.2 69.2
119 31.9 25.8 38.8

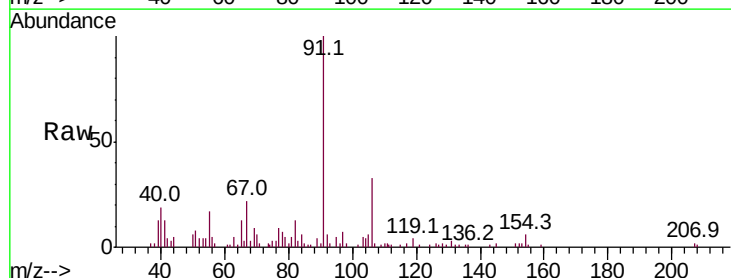


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VDC
Ion 118.90 (118.60 to 119.60): V

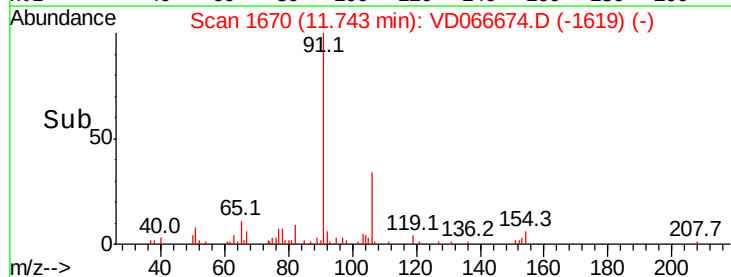
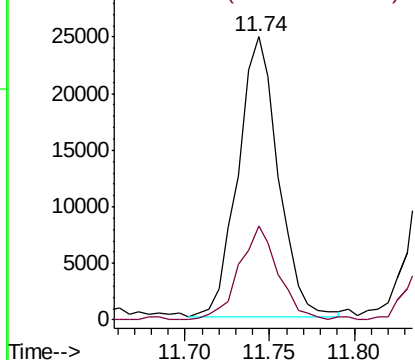


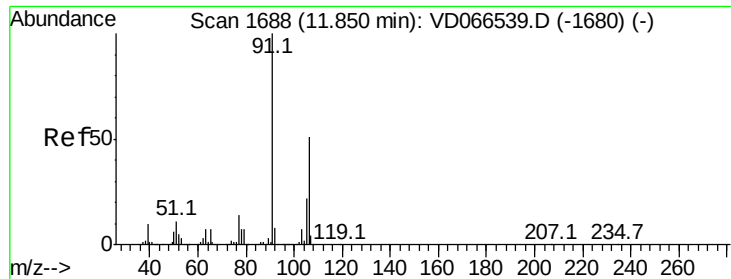
#67
Ethyl Benzene
Concen: 1.111 ug/l
RT: 11.74 min Scan# 1670
Delta R.T. -0.00 min
Lab File: VD066674.D
Acq: 14 Sep 2020 15:38

Tgt Ion: 91 Resp: 40965
Ion Ratio Lower Upper
91 100
106 33.4 24.3 36.5



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 106.00 (105.70 to 106.70): V





#68

m/p-Xvlenes

Concen: 1.756 ug/l

RT: 11.85 min Scan# 1688

Delta R.T. -0.00 min

Lab File: VD066674.D

Acq: 14 Sep 2020 15:38

Instrument :

MSVOA_D

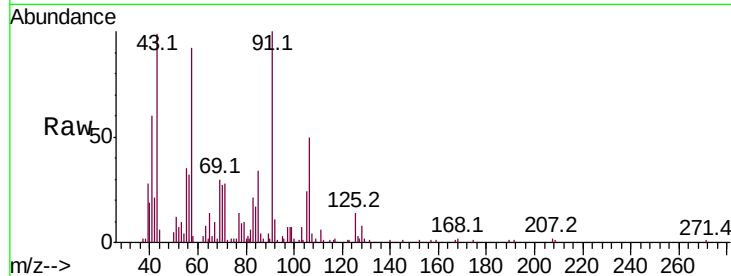
ClientSampled :

Tot Ion:106 Resp: 24034

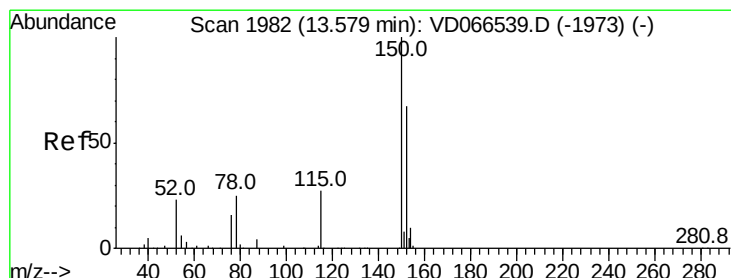
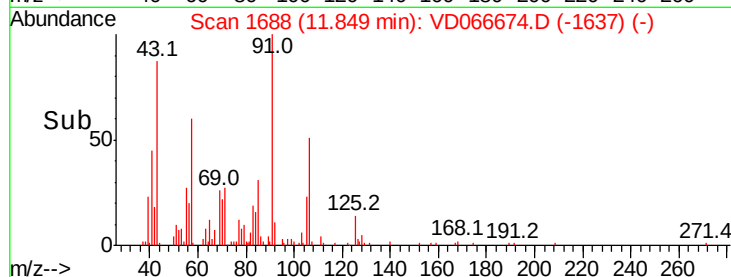
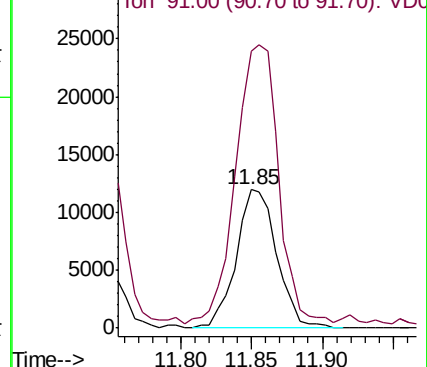
Ion Ratio Lower Upper

106 100

91 211.7 162.4 243.6



Abundance Ion 106.00 (105.70 to 106.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. -0.00 min

Lab File: VD066674.D

Acq: 14 Sep 2020 15:38

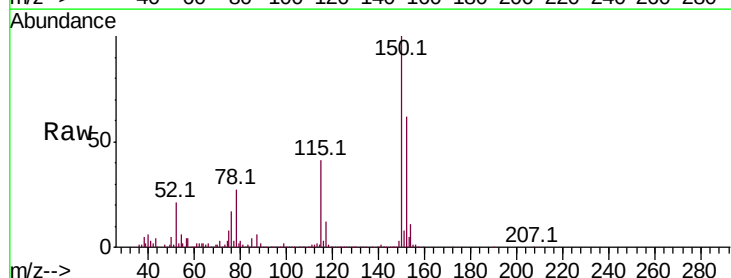
Tgt Ion:152 Resp: 443900

Ion Ratio Lower Upper

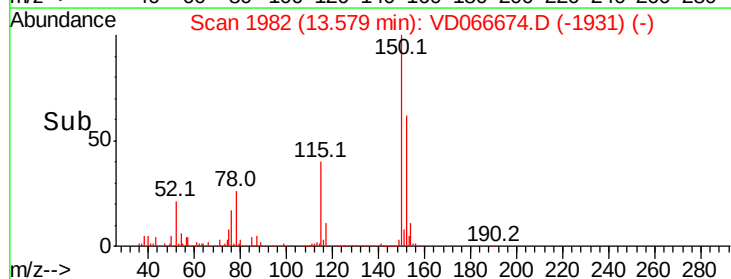
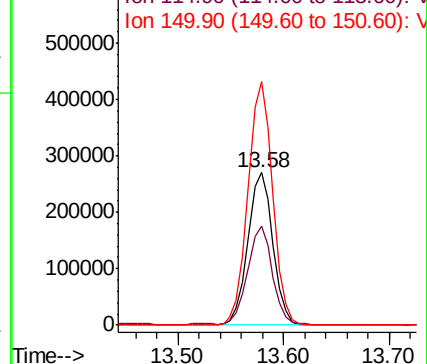
152 100

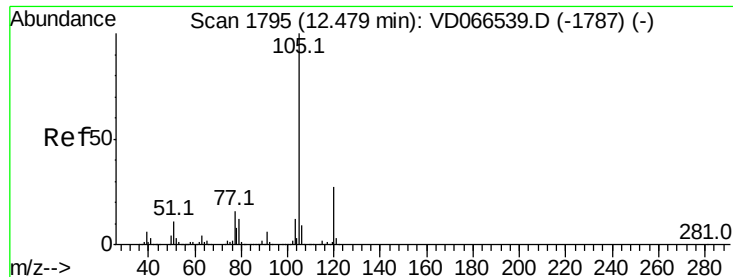
115 64.1 30.4 91.2

150 157.4 0.0 345.8



Abundance Ion 151.90 (151.60 to 152.60): V





#73

Isopropylbenzene

Concen: 1.072 ug/l

RT: 12.48 min Scan# 1795

Delta R.T. -0.00 min

Lab File: VD066674.D

Acq: 14 Sep 2020 15:38

Instrument :

MSVOA_D

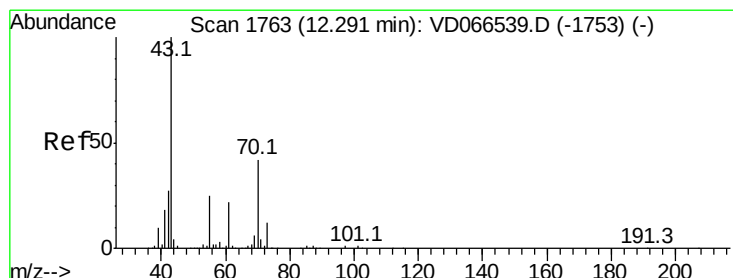
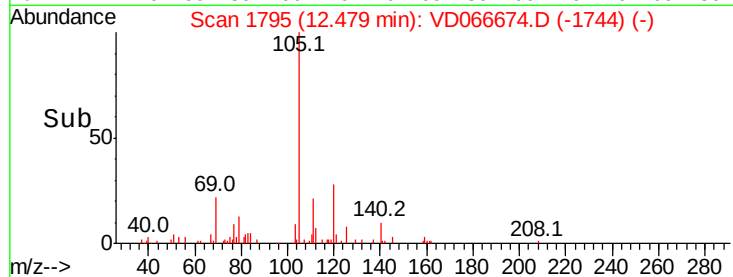
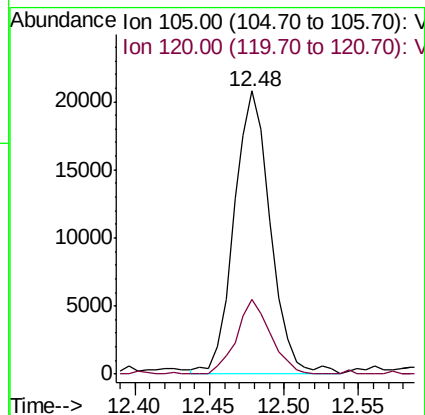
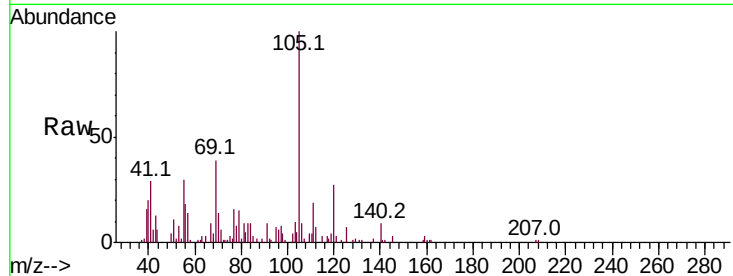
ClientSampleId :

Tot Ion:105 Resp: 35238

Ion Ratio Lower Upper

105 100

120 24.7 13.0 39.0



#74

N-ethyl acetate

Concen: 5.913 ug/l

RT: 12.27 min Scan# 1760

Delta R.T. -0.02 min

Lab File: VD066674.D

Acq: 14 Sep 2020 15:38

Tgt Ion: 43 Resp: 44013

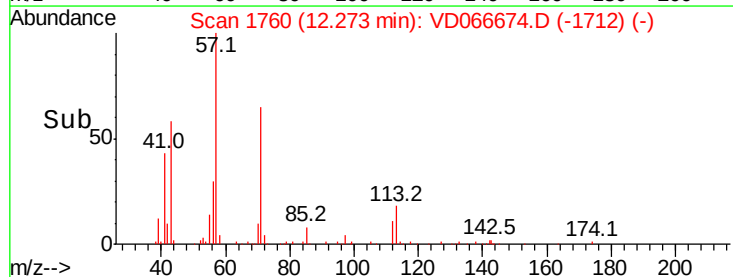
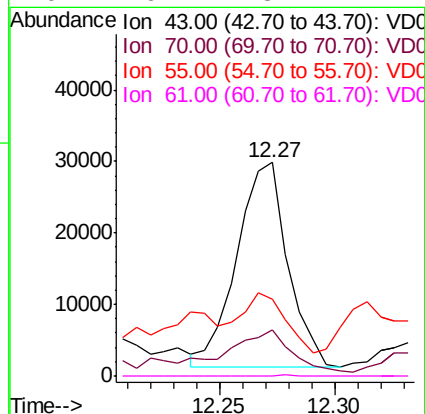
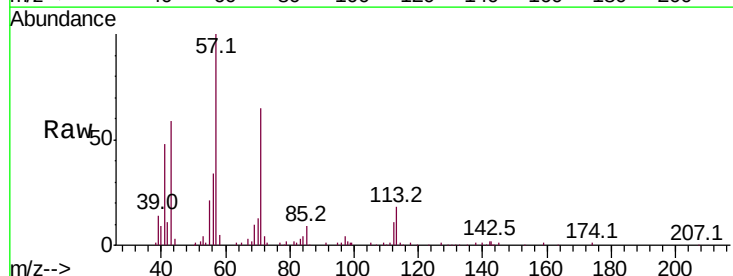
Ion Ratio Lower Upper

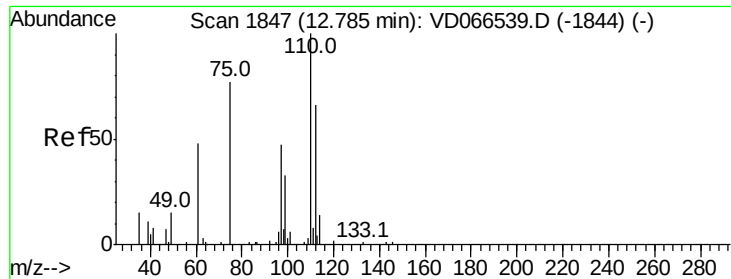
43 100

70 24.8 33.4 50.2#

55 26.1 20.1 30.1

61 0.2 18.2 27.2#

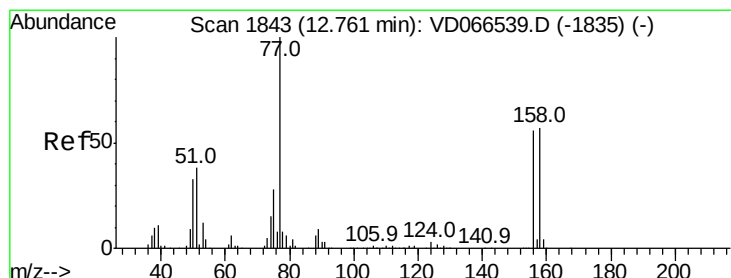
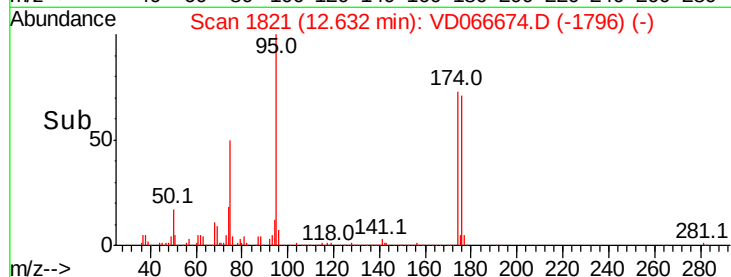
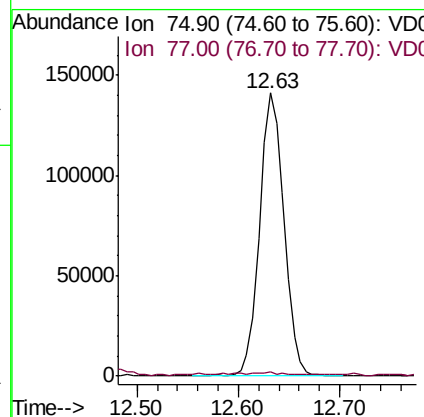
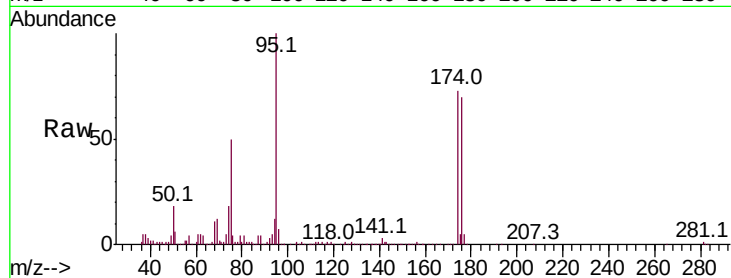




#76
 1,2,3-Trichloropropane
 Concen: 55.203 ug/l
 RT: 12.63 min Scan# 1821
 Delta R.T. -0.15 min
 Lab File: VD066674.D
 Acq: 14 Sep 2020 15:38

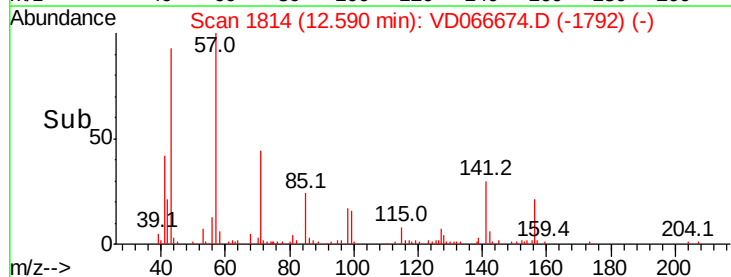
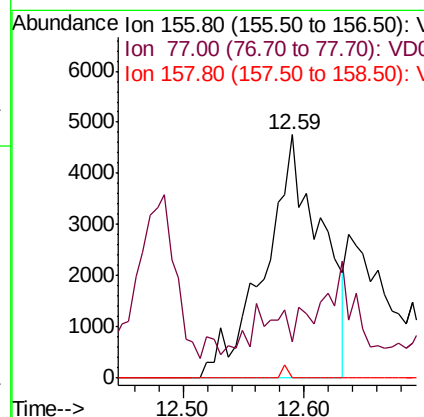
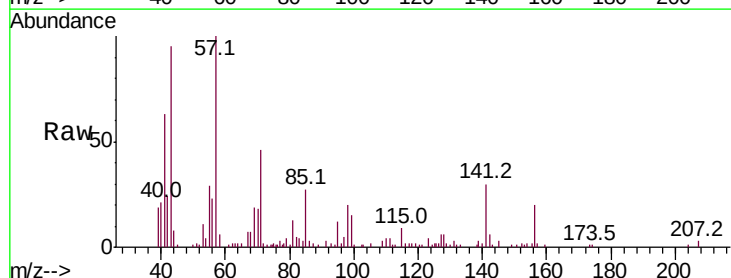
Instrument :
 MSVOA_D
 ClientSampleId :

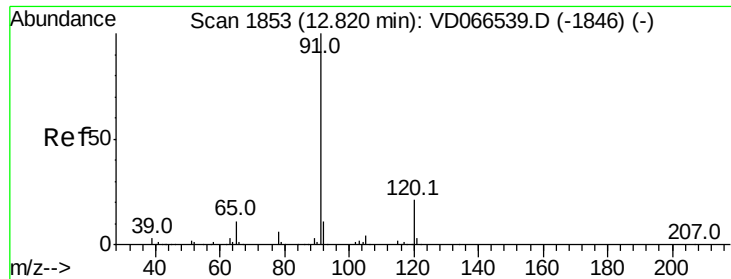
Tot Ion: 75 Resp: 235669
 Ion Ratio Lower Upper
 75 100
 77 1.3 0.0 0.0#



#77
 Bromobenzene
 Concen: 2.098 ug/l
 RT: 12.59 min Scan# 1814
 Delta R.T. -0.17 min
 Lab File: VD066674.D
 Acq: 14 Sep 2020 15:38

Tgt Ion: 156 Resp: 15371
 Ion Ratio Lower Upper
 156 100
 77 0.0 98.0 294.1#
 158 0.6 48.1 144.3#

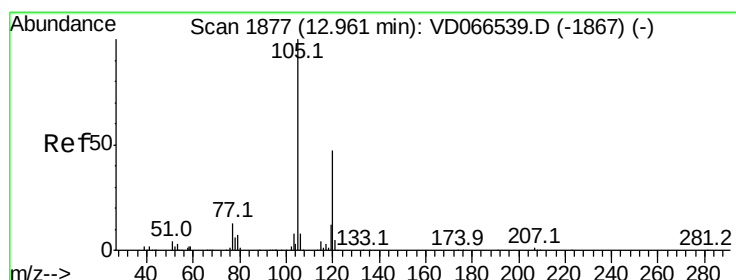
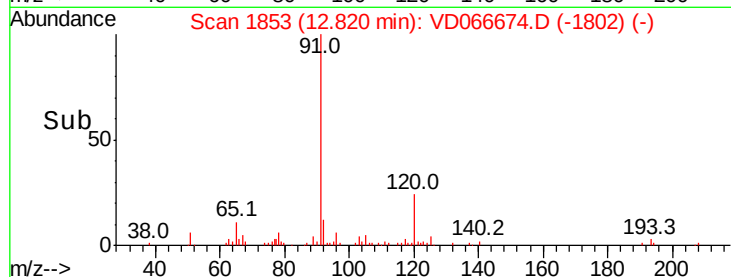
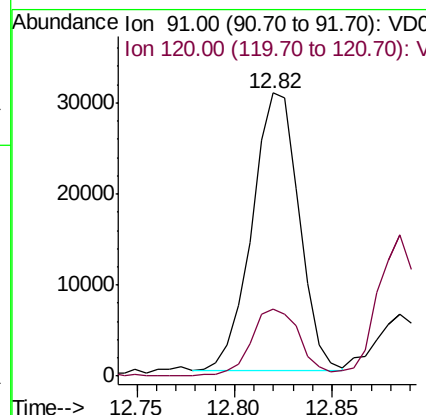
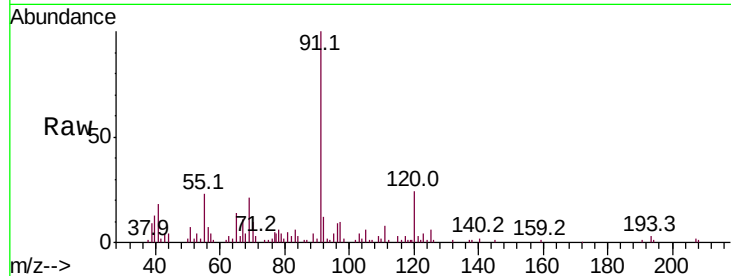




#78
n-propylbenzene
Concen: 1.282 ug/l
RT: 12.82 min Scan# 1853
Delta R.T. -0.00 min
Lab File: VD066674.D
Acq: 14 Sep 2020 15:38

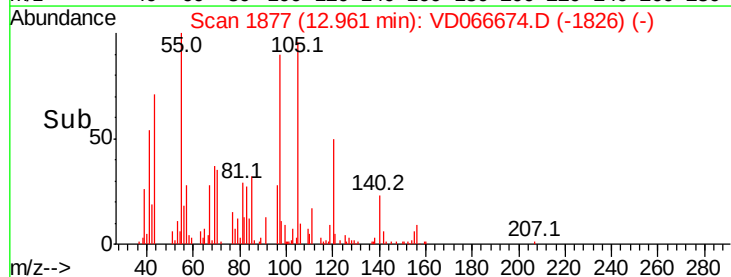
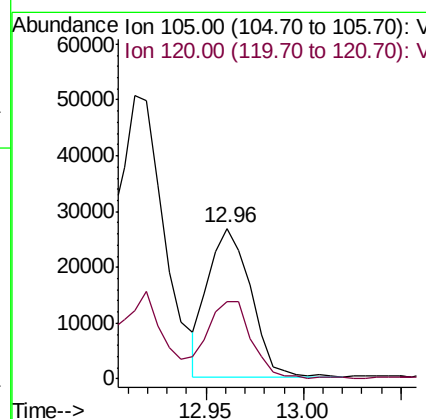
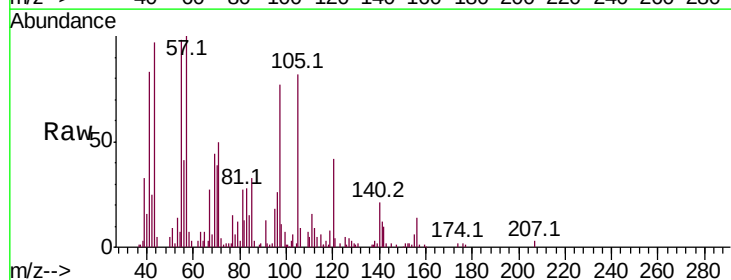
Instrument :
MSVOA_D
ClientSampleId :

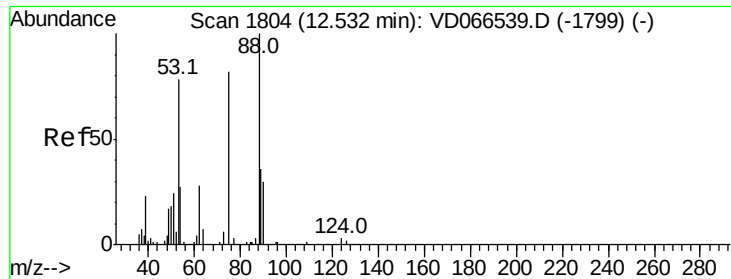
Tot Ion: 91 Resp: 51062
Ion Ratio Lower Upper
91 100
120 25.1 11.1 33.1



#80
1,3,5-Trimethylbenzene
Concen: 1.477 ug/l
RT: 12.96 min Scan# 1877
Delta R.T. -0.00 min
Lab File: VD066674.D
Acq: 14 Sep 2020 15:38

Tgt Ion:105 Resp: 40867
Ion Ratio Lower Upper
105 100
120 56.5 23.9 71.8





#81

trans-1,4-Dichloro-2-butene

Concen: 128.880 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066674.D

Acq: 14 Sep 2020 15:38

Instrument :

MSVOA_D

ClientSampleId :

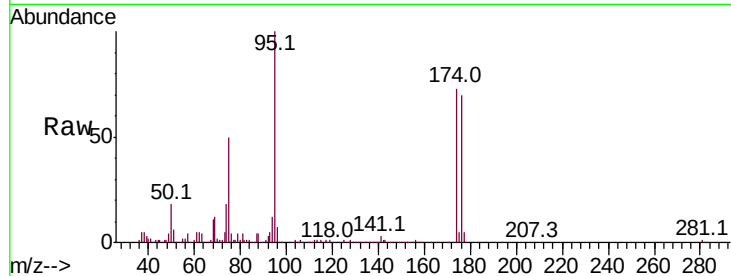
Tot Ion: 75 Resp: 235669

Ion Ratio Lower Upper

75 100

53 0.3 87.0 130.4#

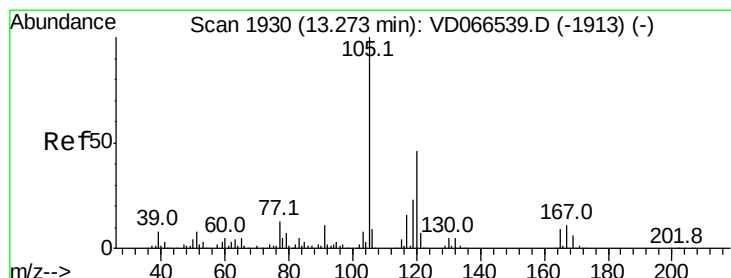
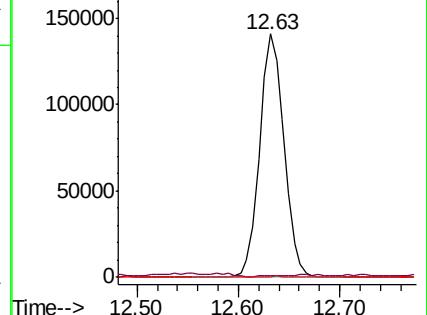
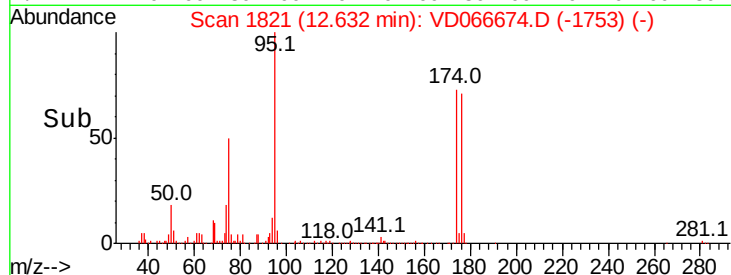
89 0.2 37.1 55.7#



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



#84

1,2,4-Trimethylbenzene

Concen: 6.552 ug/l

RT: 13.27 min Scan# 1929

Delta R.T. -0.01 min

Lab File: VD066674.D

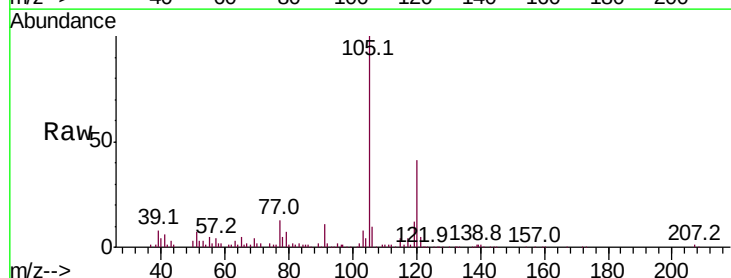
Acq: 14 Sep 2020 15:38

Tgt Ion: 105 Resp: 180446

Ion Ratio Lower Upper

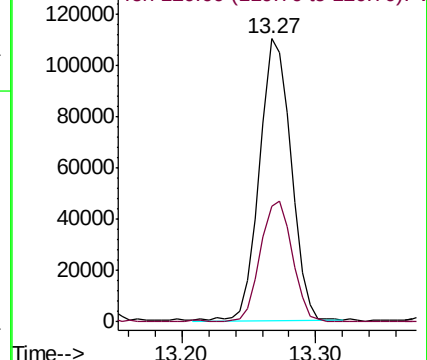
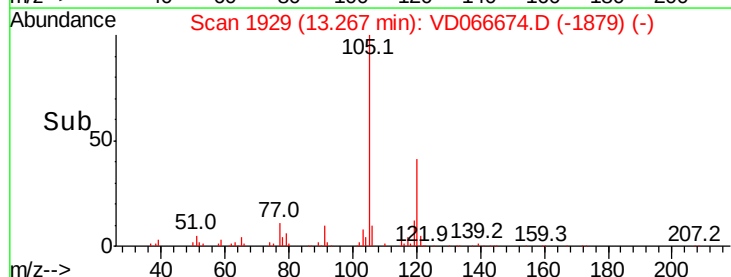
105 100

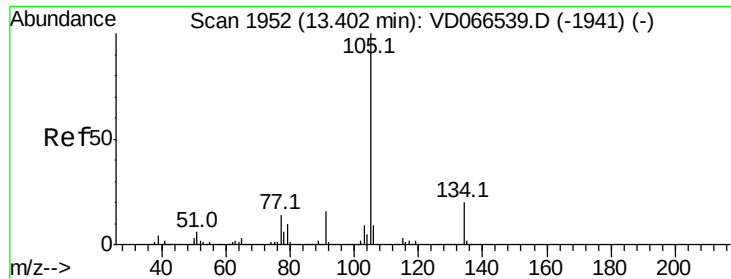
120 43.6 22.6 67.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 1.572 ug/l

RT: 13.40 min Scan# 1952

Delta R.T. -0.00 min

Lab File: VD066674.D

Acq: 14 Sep 2020 15:38

Instrument :

MSVOA_D

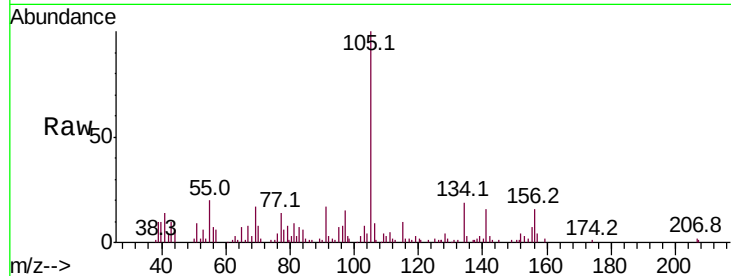
ClientSampled :

Tot Ion:105 Resp: 51167

Ion Ratio Lower Upper

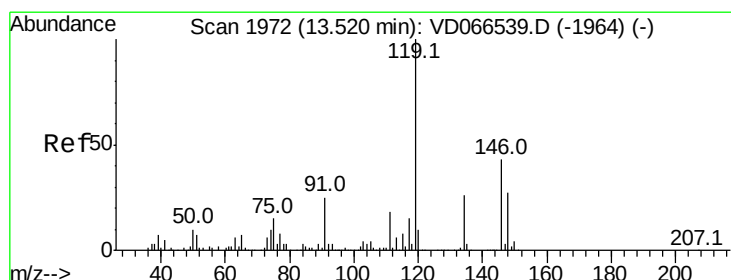
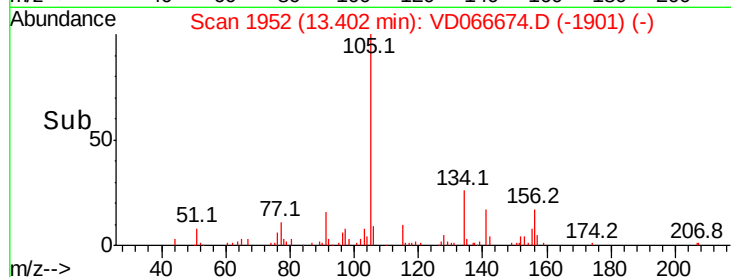
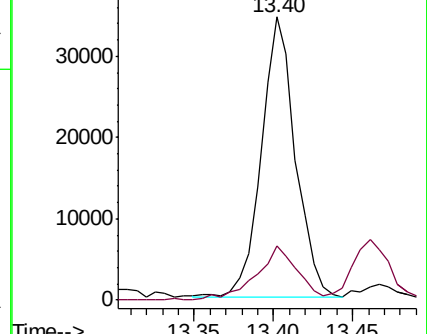
105 100

134 23.4 9.8 29.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 1.016 ug/l

RT: 13.52 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VD066674.D

Acq: 14 Sep 2020 15:38

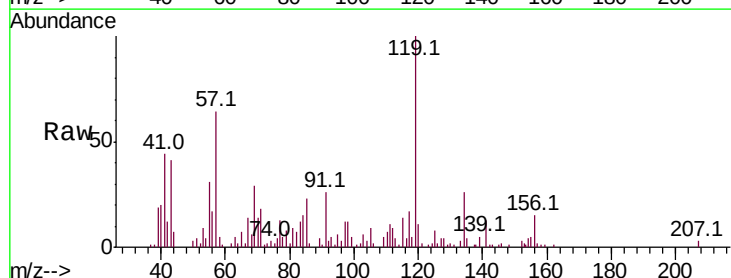
Tgt Ion:119 Resp: 29769

Ion Ratio Lower Upper

119 100

134 28.4 12.7 38.0

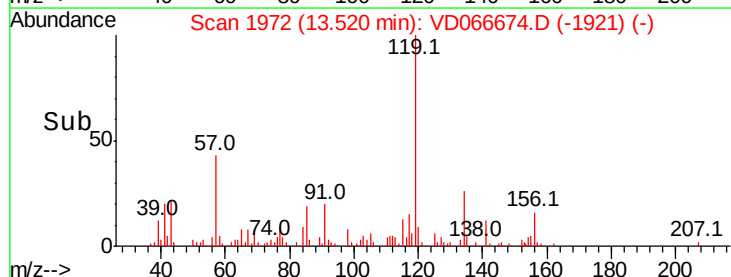
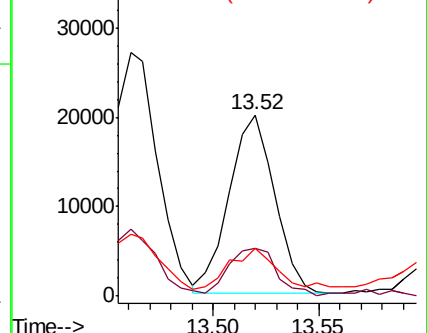
91 24.6 12.5 37.5

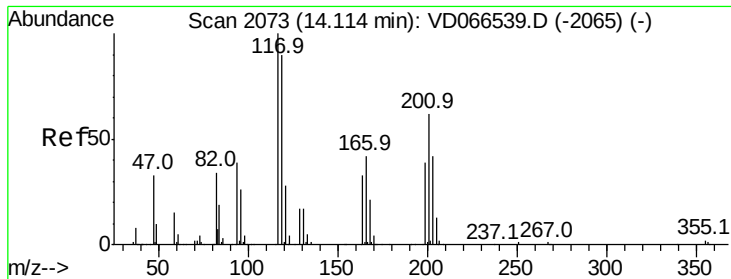


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

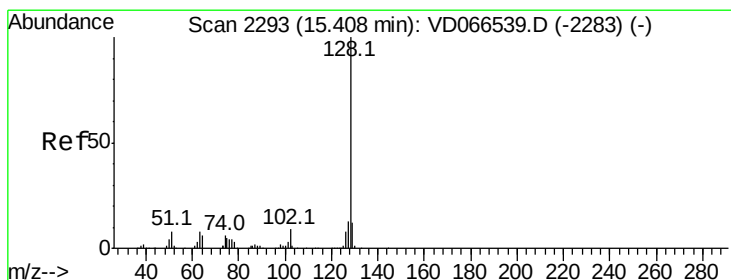
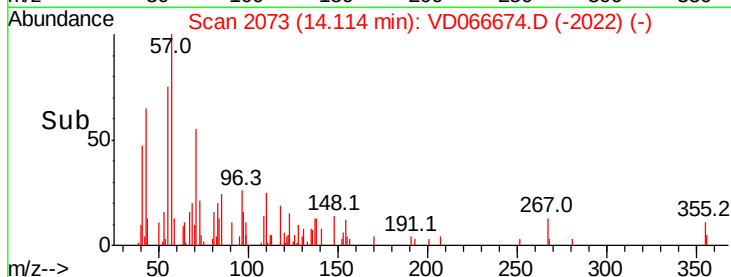
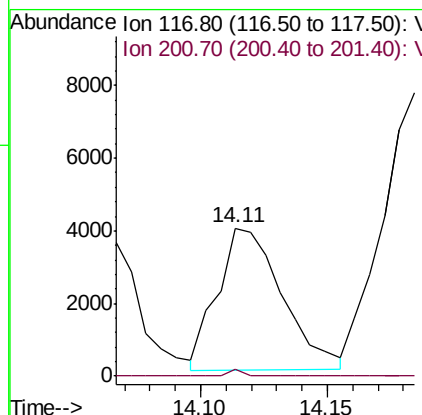
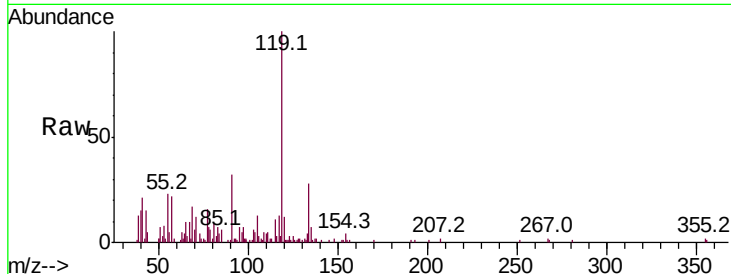




#90
Hexachloroethane
Concen: 1.110 ug/l
RT: 14.11 min Scan# 2073
Delta R.T. -0.00 min
Lab File: VD066674.D
Acq: 14 Sep 2020 15:38

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:117 Resp: 7009
Ion Ratio Lower Upper
117 100
201 0.9 31.9 95.5#



#95
Naphthalene
Concen: 10.393 ug/l
RT: 15.40 min Scan# 2292
Delta R.T. -0.01 min
Lab File: VD066674.D
Acq: 14 Sep 2020 15:38

Tgt Ion:128 Resp: 138580
Ion Ratio Lower Upper
128 100
127 13.6 10.7 16.1
129 10.4 9.1 13.7

