

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD091120\
 Data File : VD066657.D
 Acq On : 11 Sep 2020 19:14
 Operator : VA/SY
 Sample : L3981-08
 Misc : 11.52G/5.00ml/MSVOA D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Sep 12 00:41:45 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

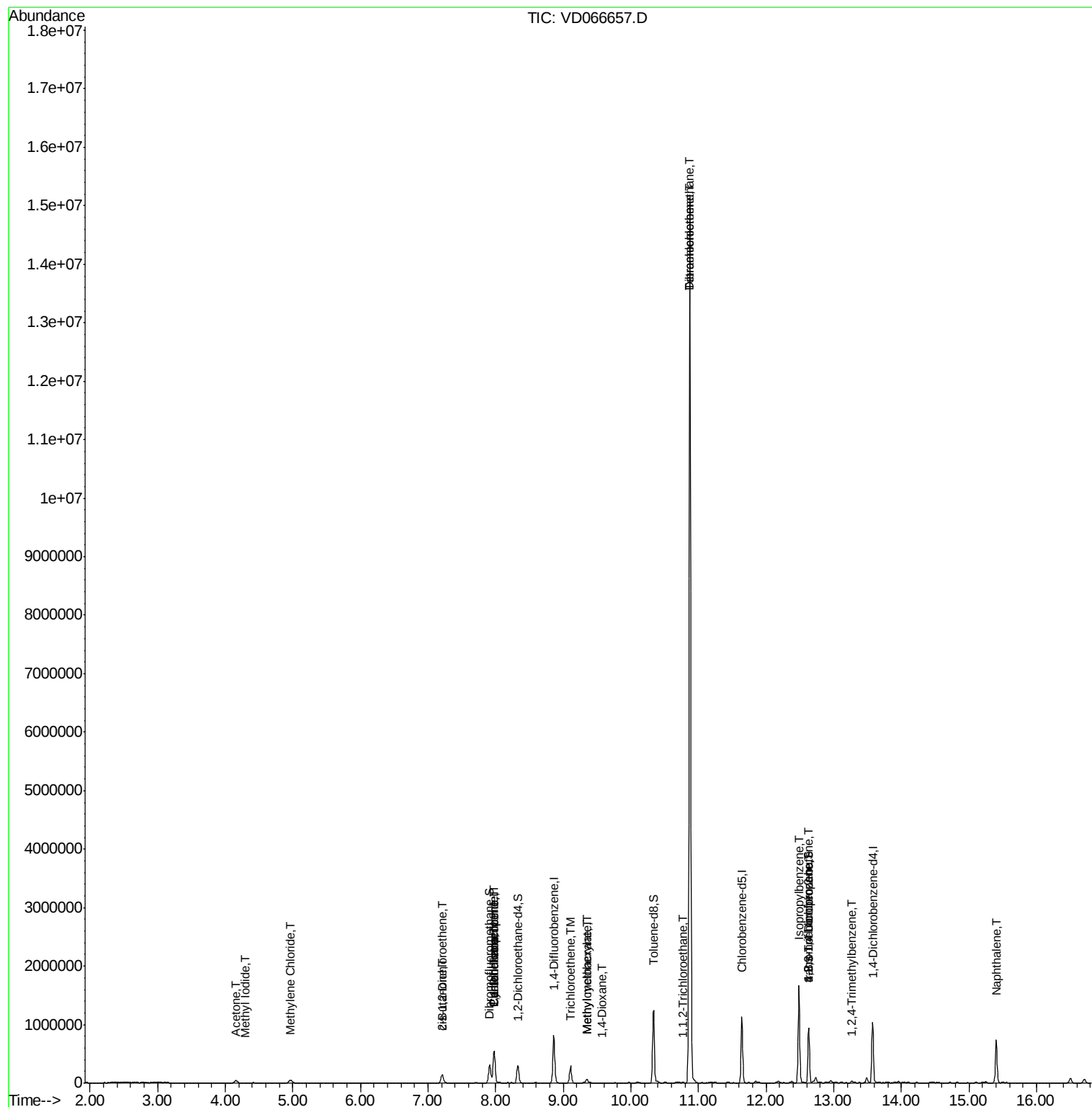
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	371411	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	651753	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	615748	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	259470	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.33	65	229966	51.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.34%	
35) Dibromofluoromethane	7.91	113	220334	50.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.22%	
50) Toluene-d8	10.34	98	818371	52.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.16%	
62) 4-Bromofluorobenzene	12.63	95	292678	56.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.34%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.99	85	297	Below Cal	#	46
5) Bromomethane	2.79	94	228	Below Cal		87
10) Methyl Iodide	4.29	142	67	4.039	ug/l #	35
11) Tert butyl alcohol	5.21	59	94	Below Cal	#	74
16) Acetone	4.16	43	77715	93.991	ug/l	94
20) Methylene Chloride	4.96	84	38040	2.102	ug/l	96
25) 2-Butanone	7.21	43	9429	8.495	ug/l #	90
27) cis-1,2-Dichloroethene	7.21	96	77171	16.150	ug/l	90
31) Cyclohexane	7.98	56	14356	1.958	ug/l #	35
36) 1,1-Dichloropropene	7.97	75	33134	4.885	ug/l #	48
38) Carbon Tetrachloride	7.98	117	41508	5.790	ug/l #	19
39) Methylcyclohexane	9.35	83	22998	3.036	ug/l	91
44) Trichloroethene	9.11	130	102528	21.041	ug/l	97
48) Methyl methacrylate	9.35	41	14484	5.534	ug/l #	76
49) 1,4-Dioxane	9.56	88	85	3.006	ug/l #	23
55) 1,1,2-Trichloroethane	10.77	97	4473	1.350	ug/l #	15
60) Dibromochloromethane	10.87	129	2975912	679.097	ug/l #	10
64) Tetrachloroethene	10.87	164	3095277	746.596	ug/l	97
73) Isopropylbenzene	12.48	105	72049	3.750	ug/l #	68
76) 1,2,3-Trichloropropane	12.63	75	165361	66.266	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	165361	154.708	ug/l #	6
84) 1,2,4-Trimethylbenzene	13.27	105	19358	1.202	ug/l	91
95) Naphthalene	15.41	128	603436	77.422	ug/l	99

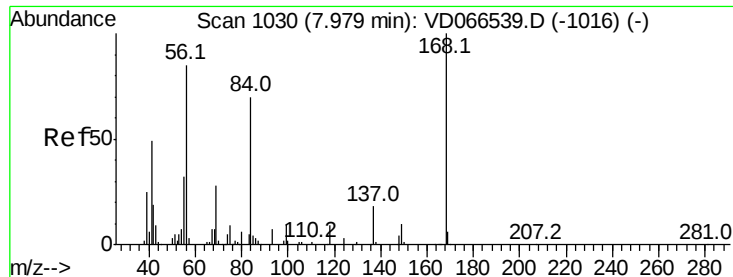
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VD066657.D

Acq: 11 Sep 2020 19:14

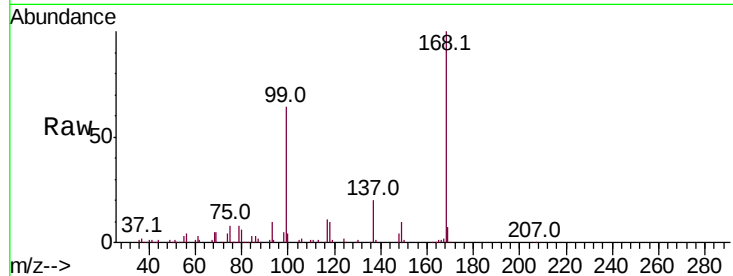
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 371411

Ion Ratio Lower Upper

168 100

99 63.9 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

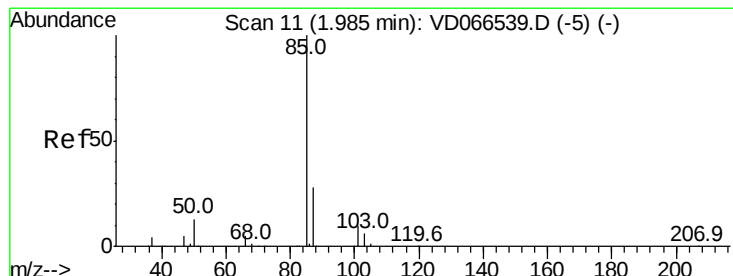
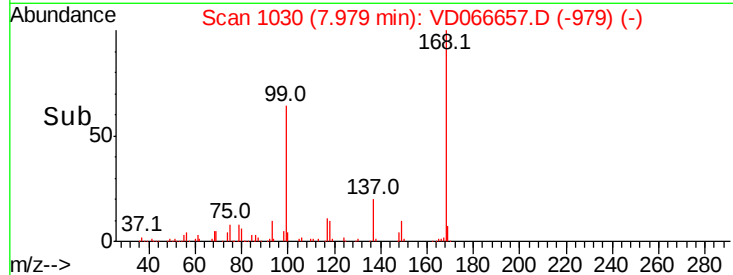
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD066657.D

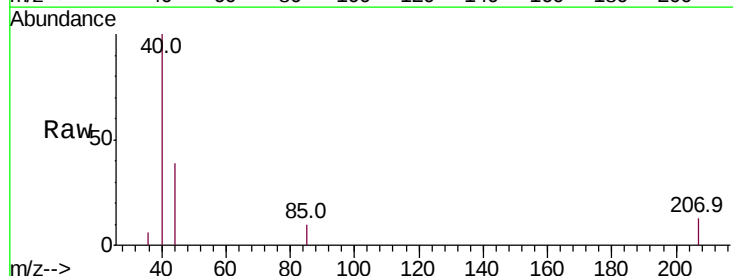
Acq: 11 Sep 2020 19:14

Tgt Ion: 85 Resp: 297

Ion Ratio Lower Upper

85 100

87 0.0 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

400

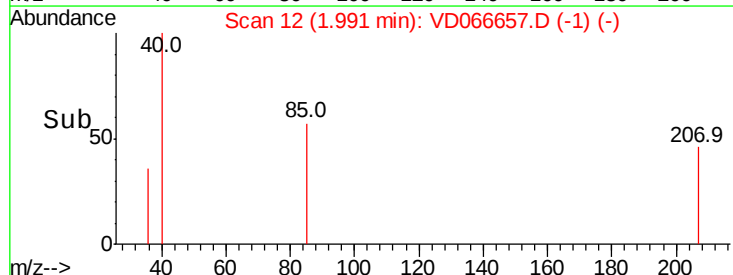
300

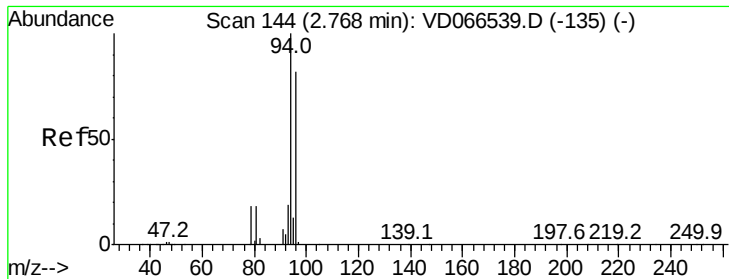
200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.79 min Scan# 147

Delta R.T. 0.02 min

Lab File: VD066657.D

Acq: 11 Sep 2020 19:14

Instrument :

MSVOA_D

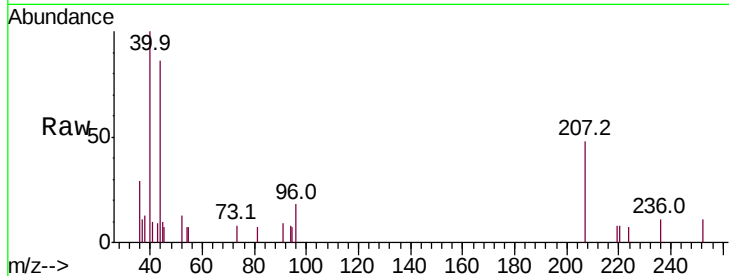
ClientSampled :

Tot Ion: 94 Resp: 228

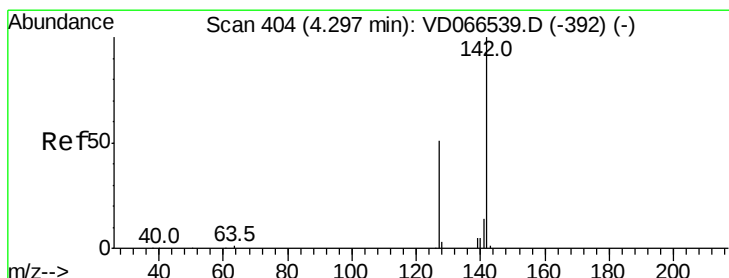
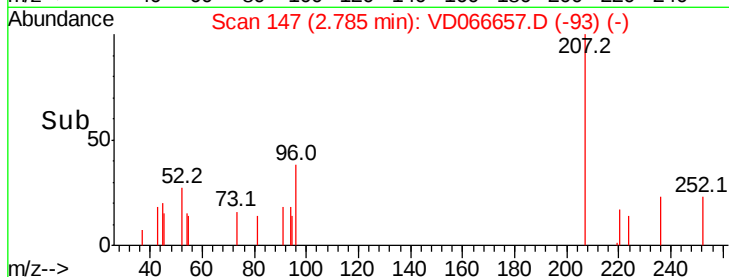
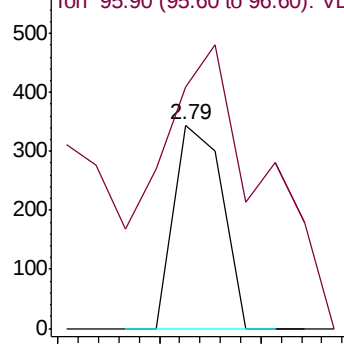
Ion Ratio Lower Upper

94 100

96 69.6 65.2 97.8



Abundance Ion 93.90 (93.60 to 94.60): VDC



#10

Methyl Iodide

Concen: 4.039 ug/l

RT: 4.29 min Scan# 403

Delta R.T. -0.01 min

Lab File: VD066657.D

Acq: 11 Sep 2020 19:14

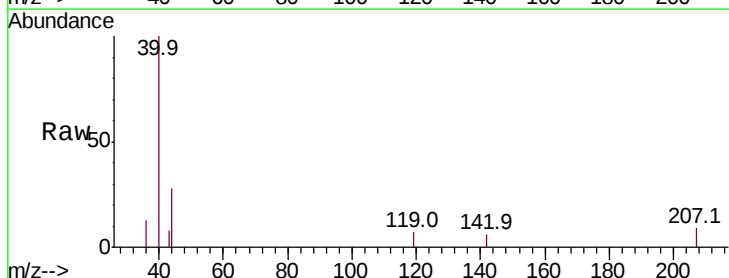
Tgt Ion: 142 Resp: 67

Ion Ratio Lower Upper

142 100

127 0.0 40.6 61.0#

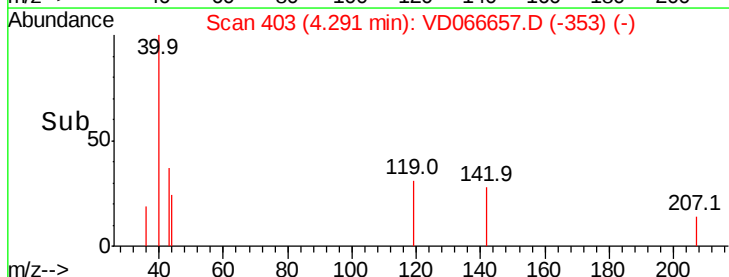
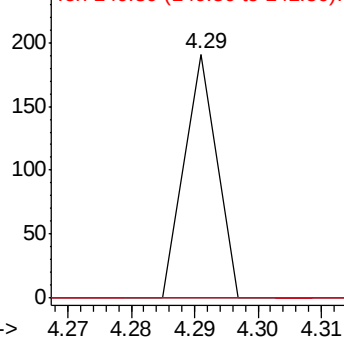
141 0.0 12.2 18.4#

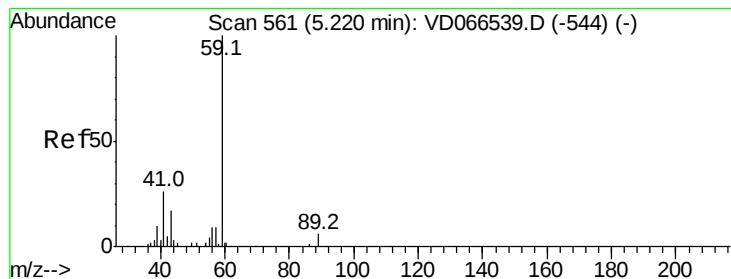


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



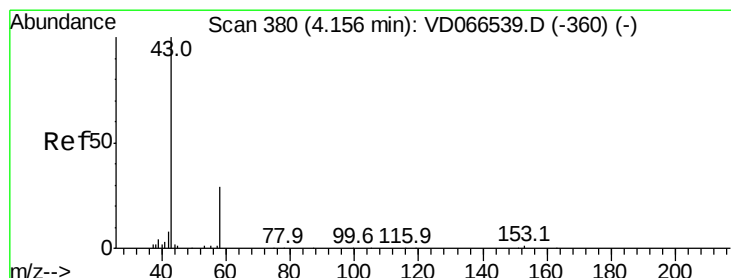
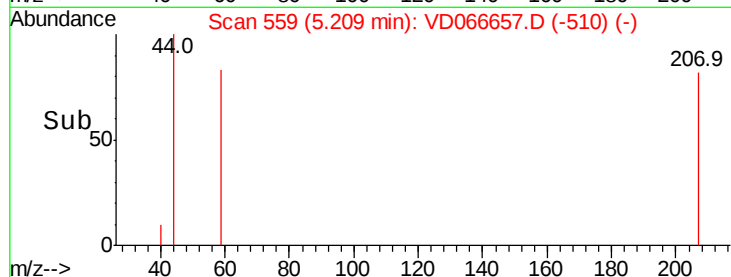
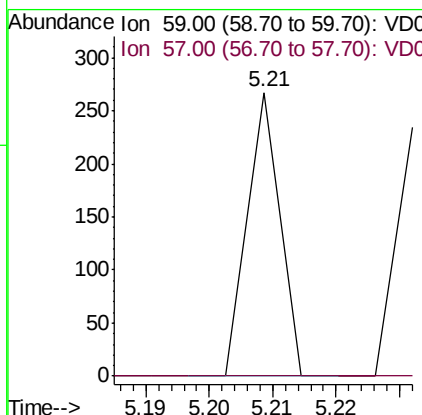
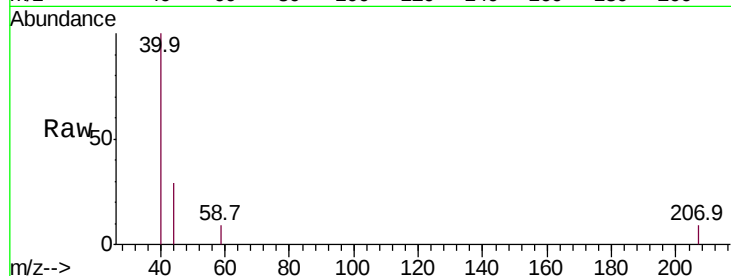


#11

Tert butyl alcohol
Concen: Below Cal
RT: 5.21 min Scan# 559
Delta R.T. -0.01 min
Lab File: VD066657.D
Acq: 11 Sep 2020 19:14

Instrument :
MSVOA_D
ClientSampled :

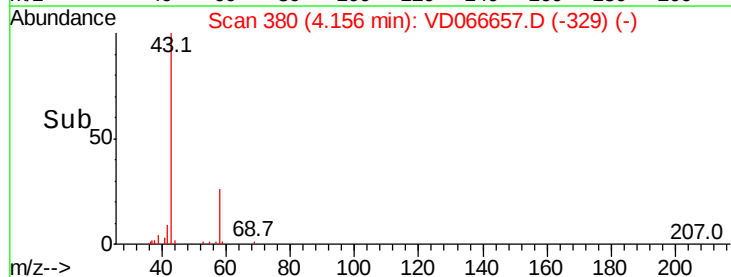
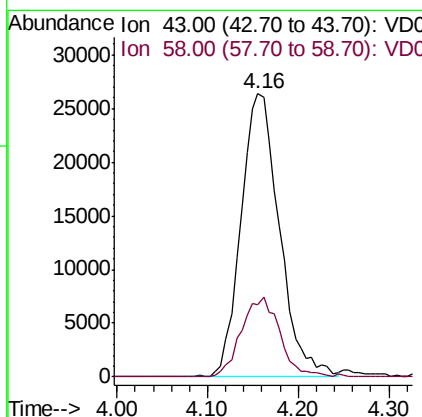
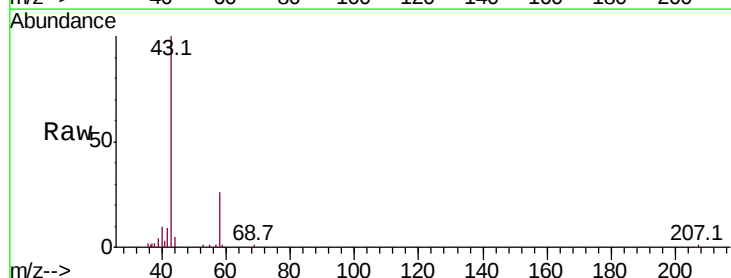
Tot Ion: 59 Resp: 94
Ion Ratio Lower Upper
59 100
57 0.0 7.6 11.4#

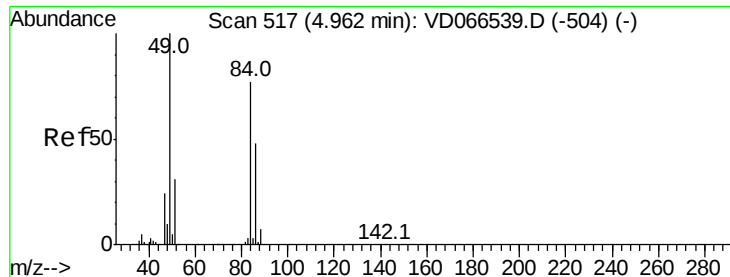


#16

Acetone
Concen: 93.991 ug/l
RT: 4.16 min Scan# 380
Delta R.T. -0.00 min
Lab File: VD066657.D
Acq: 11 Sep 2020 19:14

Tgt Ion: 43 Resp: 77715
Ion Ratio Lower Upper
43 100
58 25.6 22.9 34.3

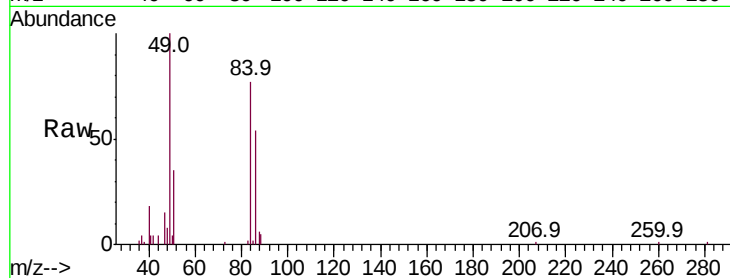




#20
Methvlene Chloride
Concen: 2.102 ug/l
RT: 4.96 min Scan# 516
Delta R.T. -0.01 min
Lab File: VD066657.D
Acq: 11 Sep 2020 19:14

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:	84	Resp:	38040
Ion	Ratio	Lower	Upper
84	100		
49	130.1	104.3	156.5
51	45.0	32.2	48.4
86	69.8	50.0	75.0



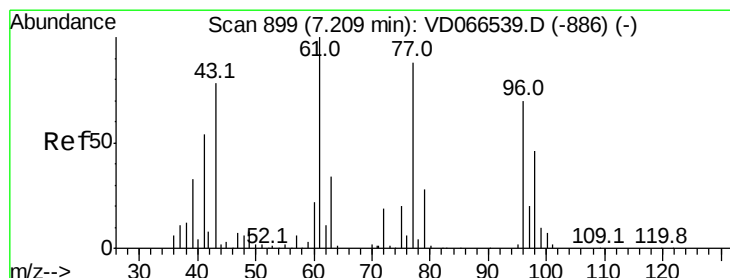
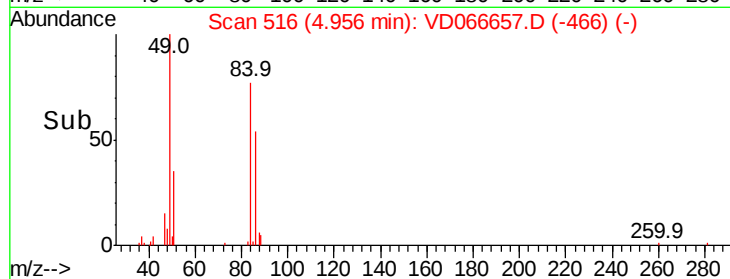
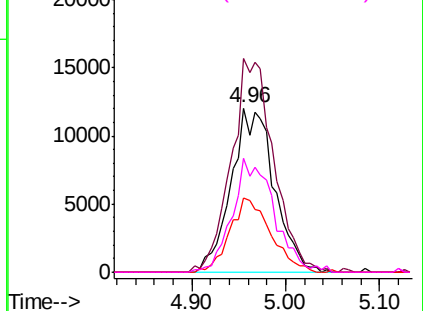
Abundance

Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

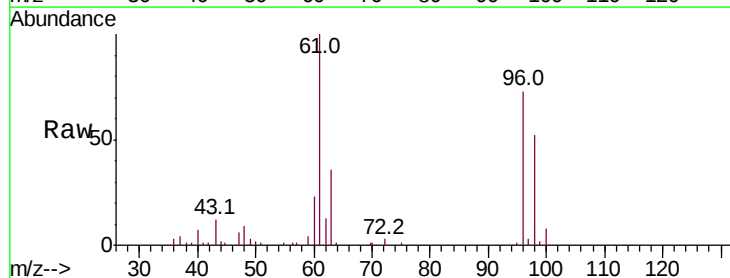
Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC



#25
2-Butanone
Concen: 8.495 ug/l
RT: 7.21 min Scan# 899
Delta R.T. -0.00 min
Lab File: VD066657.D
Acq: 11 Sep 2020 19:14

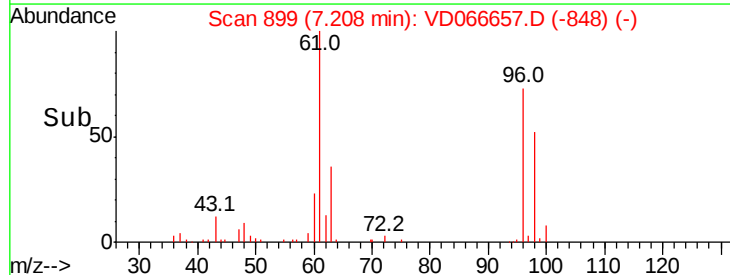
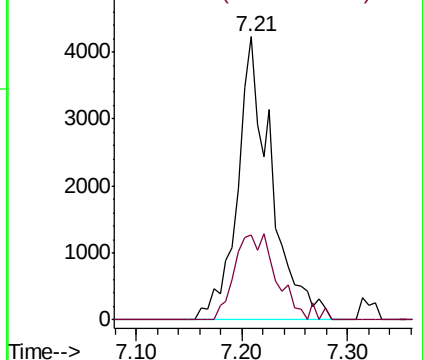
Tgt Ion:	43	Resp:	9429
Ion	Ratio	Lower	Upper
43	100		
72	29.9	19.8	29.6#

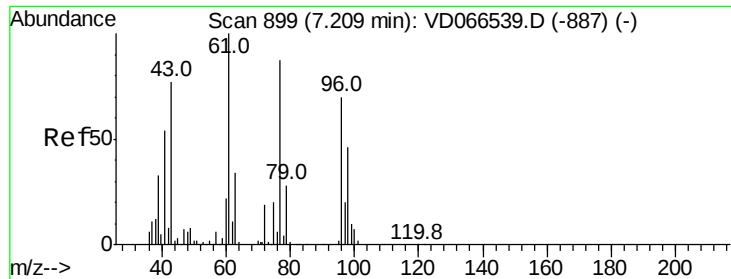


Abundance

Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



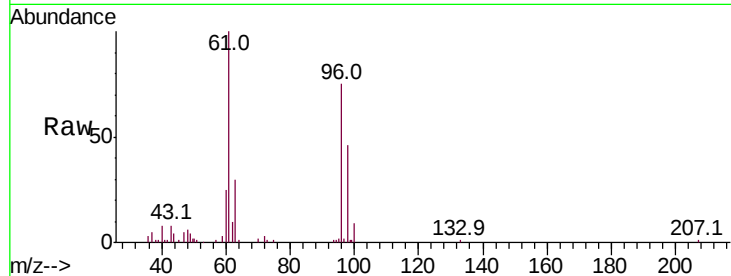


#27

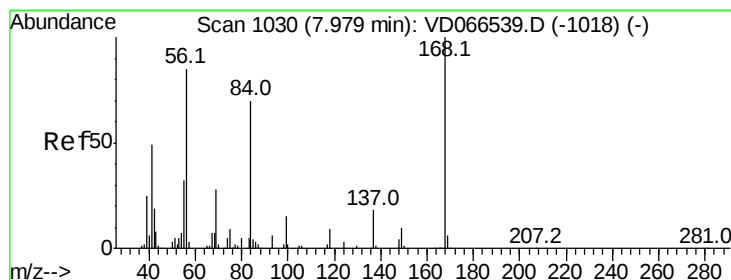
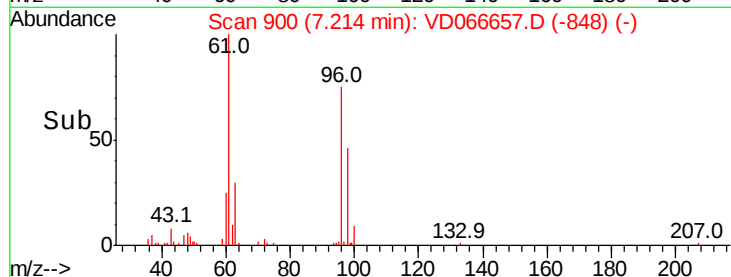
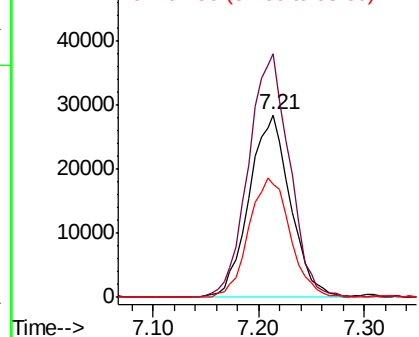
cis-1,2-Dichloroethene
 Concen: 16.150 ug/l
 RT: 7.21 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VD066657.D
 Acq: 11 Sep 2020 19:14

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion: 96 Resp: 77171
 Ion Ratio Lower Upper
 96 100
 61 132.8 0.0 301.0
 98 65.3 0.0 129.8



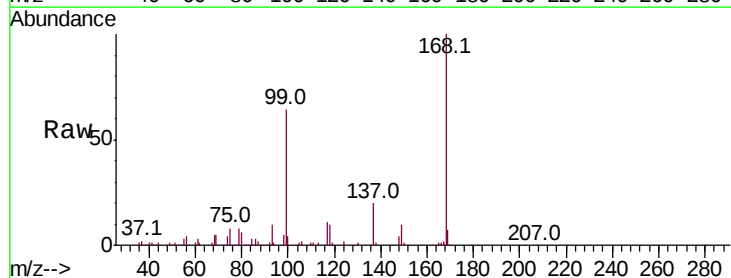
Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.90 (60.60 to 61.60): VDC
 Ion 97.90 (97.60 to 98.60): VDC



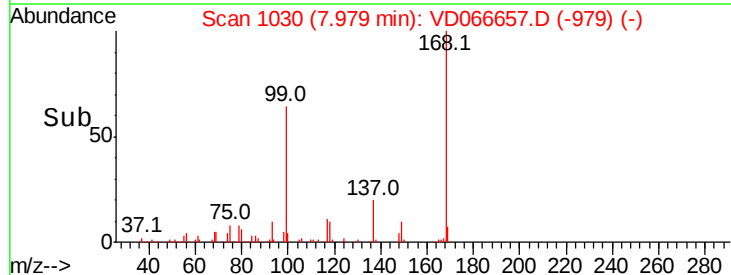
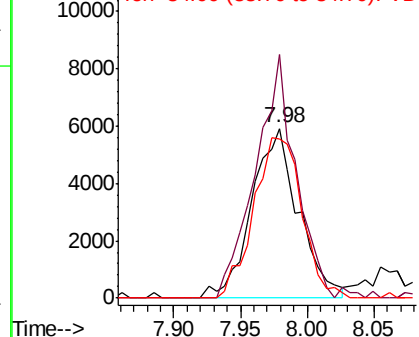
#31

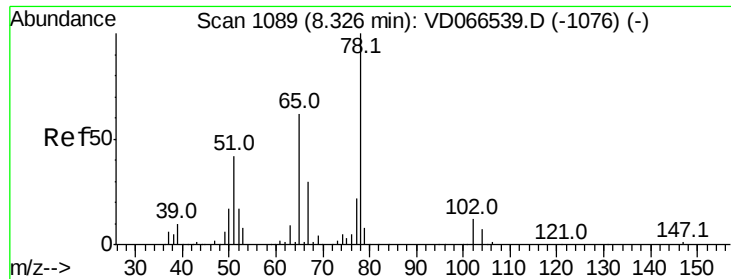
Cyclohexane
 Concen: 1.958 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VD066657.D
 Acq: 11 Sep 2020 19:14

Tgt Ion: 56 Resp: 14356
 Ion Ratio Lower Upper
 56 100
 69 143.6 26.3 39.5#
 84 93.9 66.1 99.1



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: 51.175 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. -0.00 min

Lab File: VD066657.D

Acq: 11 Sep 2020 19:14

Instrument :

MSVOA_D

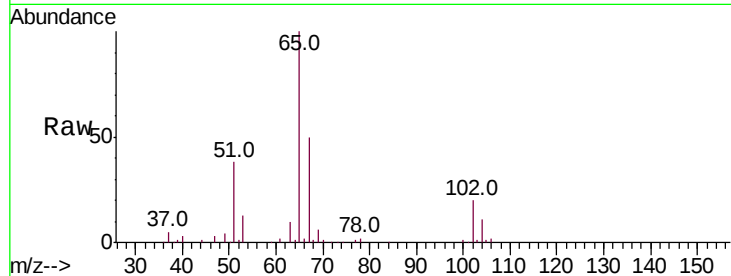
ClientSampleId :

Tot Ion: 65 Resp: 229966

Ion Ratio Lower Upper

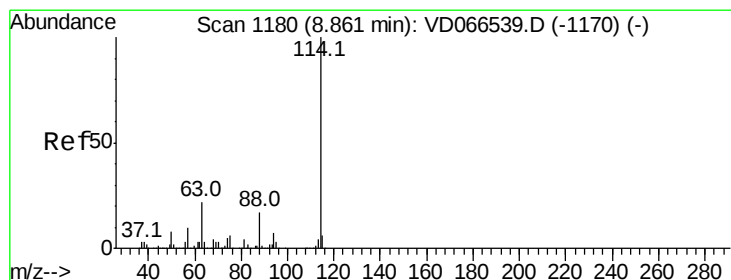
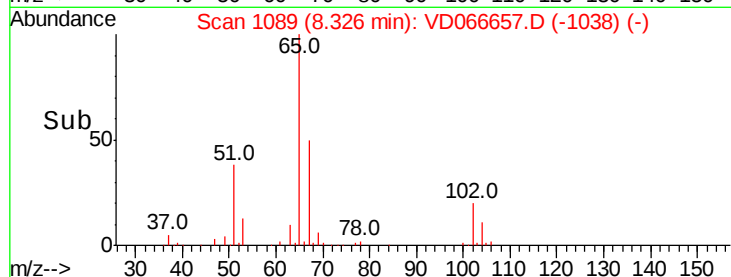
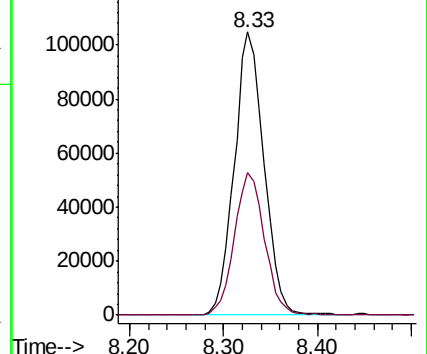
65 100

67 51.1 0.0 102.8



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: 8.86 min Scan# 1180

Delta R.T. -0.00 min

Lab File: VD066657.D

Acq: 11 Sep 2020 19:14

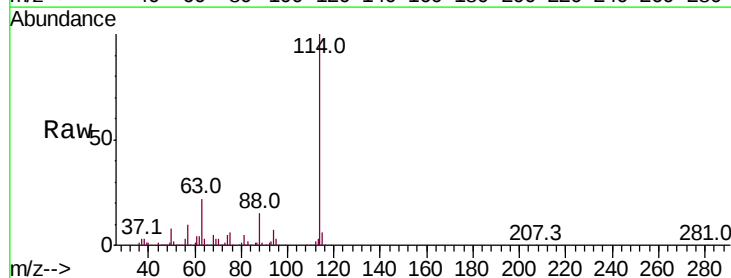
Tgt Ion: 114 Resp: 651753

Ion Ratio Lower Upper

114 100

63 22.1 0.0 43.2

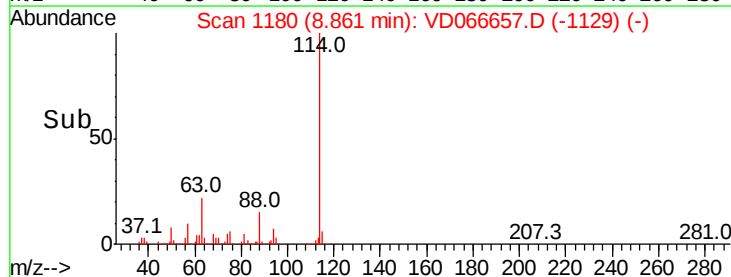
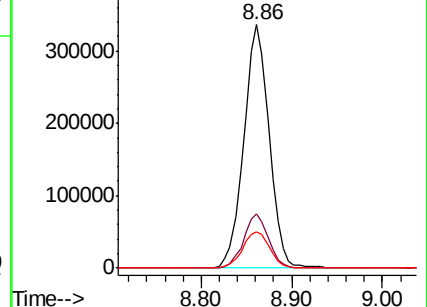
88 15.1 0.0 33.2

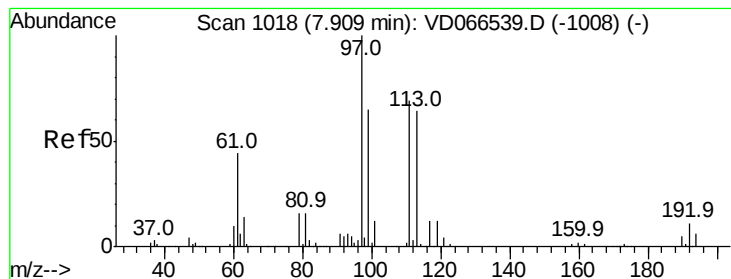


Abundance Ion 113.90 (113.60 to 114.60): VDC

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.113 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. 0.01 min

Lab File: VD066657.D

Acq: 11 Sep 2020 19:14

Instrument :

MSVOA_D

ClientSampleId :

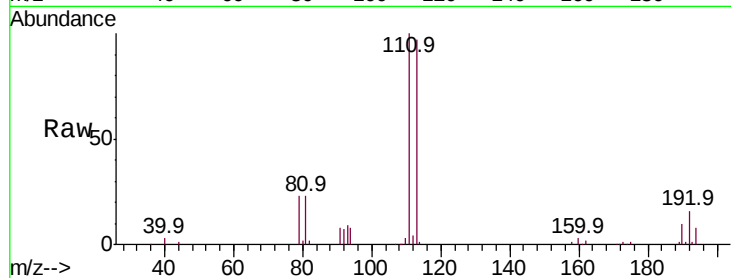
Tot Ion:113 Resp: 220334

Ion Ratio Lower Upper

113 100

111 104.6 83.2 124.8

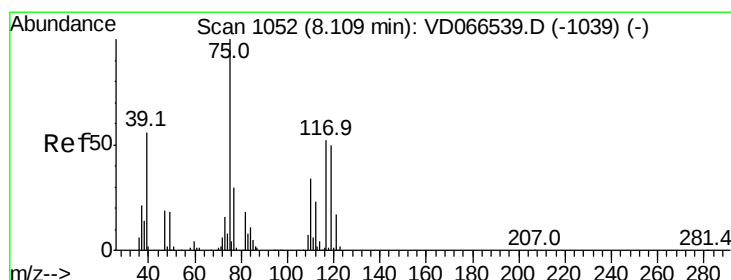
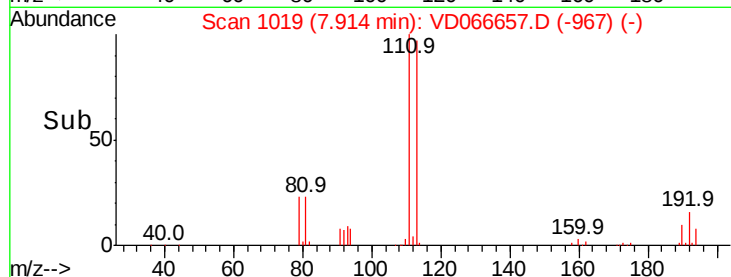
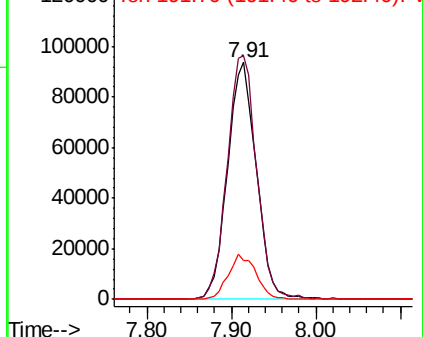
192 18.3 13.7 20.5



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: 4.885 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.14 min

Lab File: VD066657.D

Acq: 11 Sep 2020 19:14

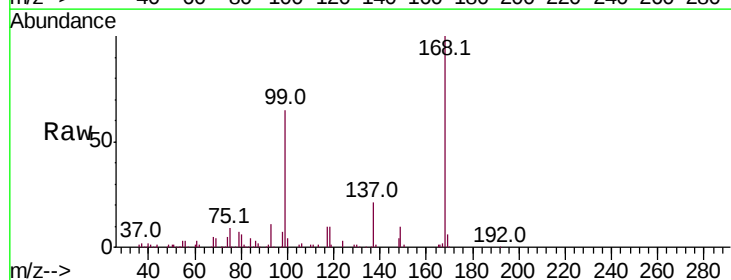
Tgt Ion: 75 Resp: 33134

Ion Ratio Lower Upper

75 100

110 6.4 17.3 52.0#

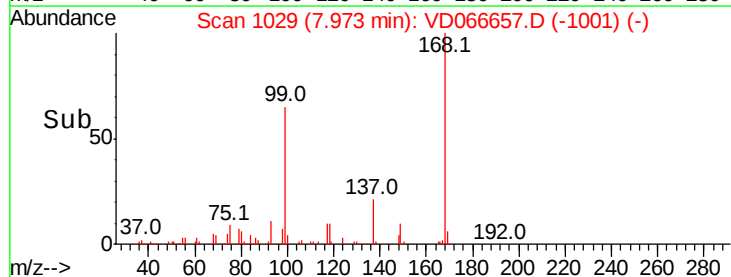
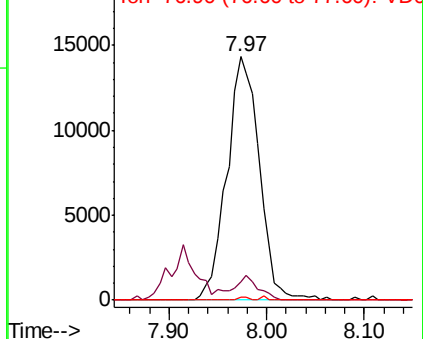
77 0.4 25.1 37.7#

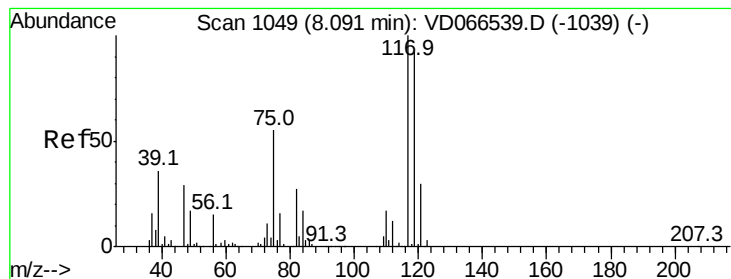


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VDC





#38

Carbon Tetrachloride

Concen: 5.790 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.11 min

Lab File: VD066657.D

Acq: 11 Sep 2020 19:14

Instrument :

MSVOA_D

ClientSampled :

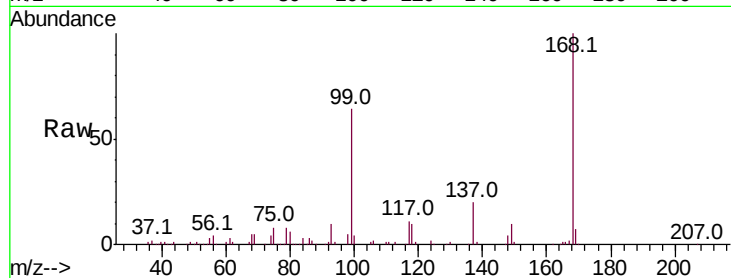
Tot Ion:117 Resp: 41508

Ion Ratio Lower Upper

117 100

119 7.1 73.9 110.9#

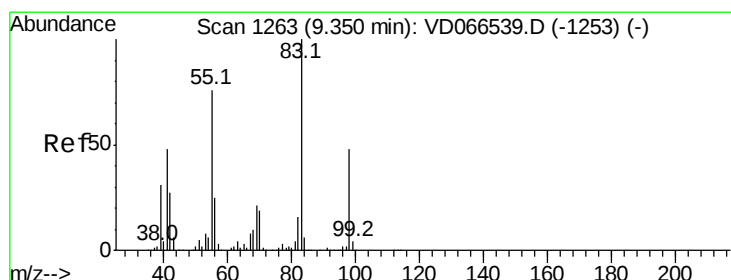
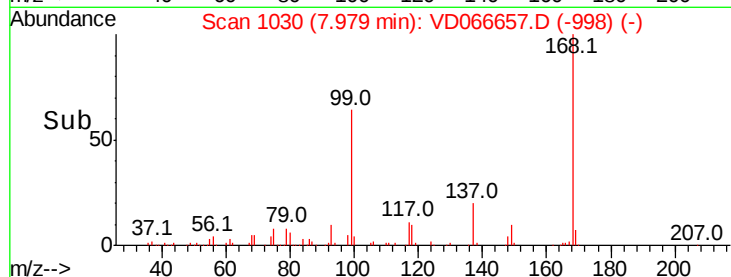
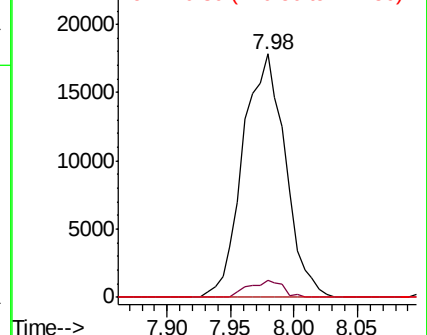
121 0.0 24.1 36.1#



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: 3.036 ug/l

RT: 9.35 min Scan# 1263

Delta R.T. -0.00 min

Lab File: VD066657.D

Acq: 11 Sep 2020 19:14

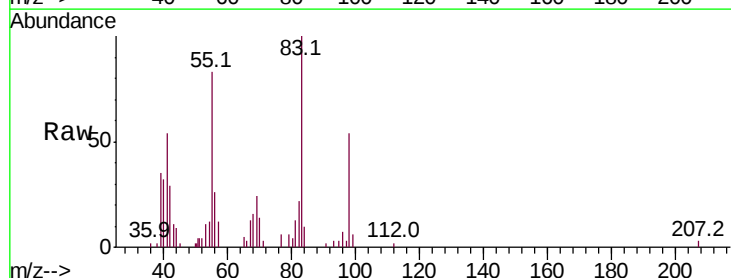
Tgt Ion: 83 Resp: 22998

Ion Ratio Lower Upper

83 100

55 83.2 60.8 91.2

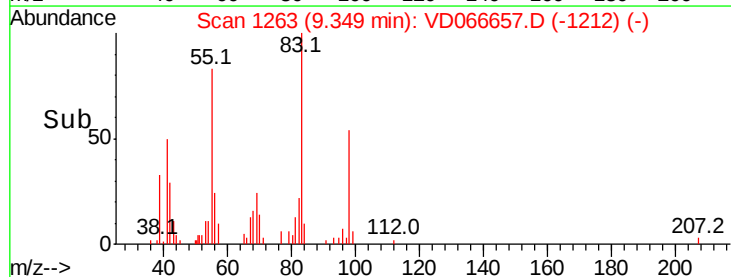
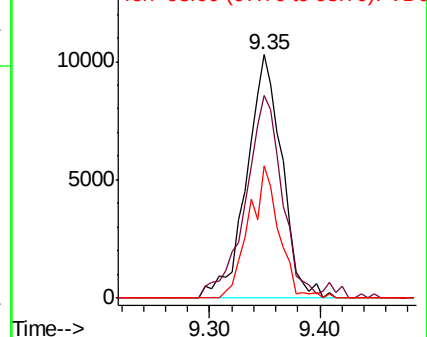
98 54.3 38.6 58.0

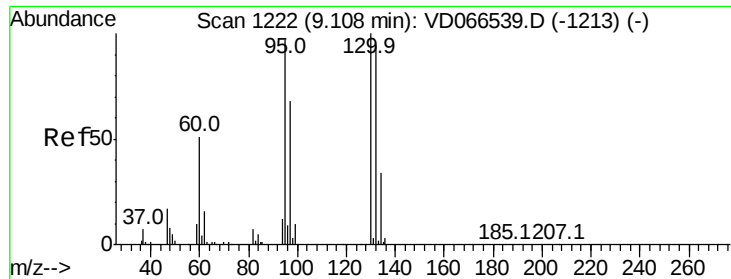


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 98.00 (97.70 to 98.70): V





#44

Trichloroethene

Concen: 21.041 ug/l

RT: 9.11 min Scan# 1222

Delta R.T. -0.00 min

Lab File: VD066657.D

Acq: 11 Sep 2020 19:14

Instrument :

MSVOA_D

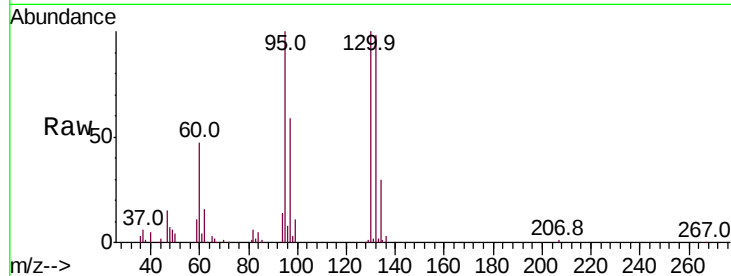
ClientSampleId :

Tot Ion:130 Resp: 102528

Ion Ratio Lower Upper

130 100

95 100.1 0.0 194.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC

60000

50000

40000

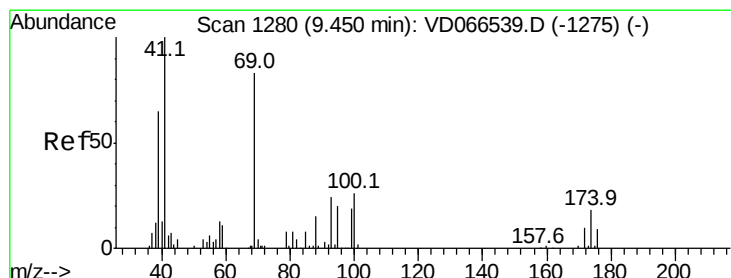
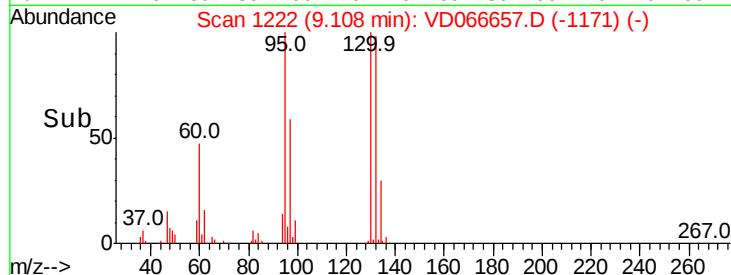
30000

20000

10000

0

Time--> 9.00 9.05 9.10 9.15 9.20



#48

Methyl methacrylate

Concen: 5.534 ug/l

RT: 9.35 min Scan# 1263

Delta R.T. -0.10 min

Lab File: VD066657.D

Acq: 11 Sep 2020 19:14

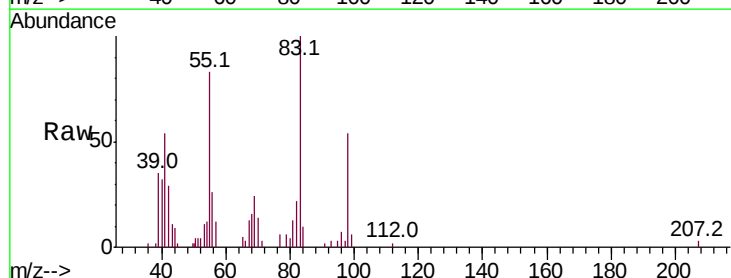
Tgt Ion: 41 Resp: 14484

Ion Ratio Lower Upper

41 100

69 45.3 64.5 96.7#

39 60.0 46.6 69.8



Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

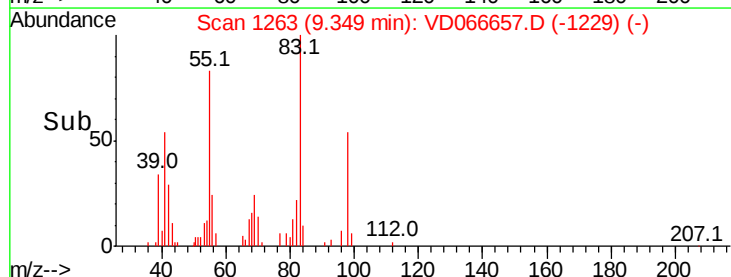
6000

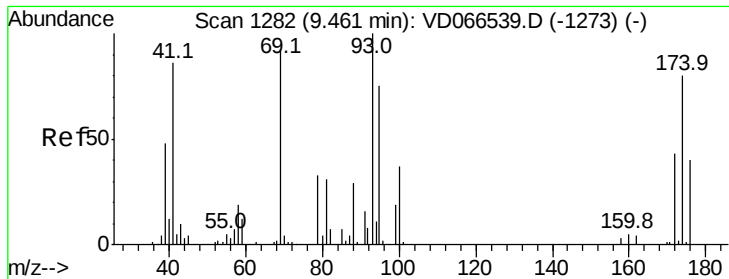
4000

2000

0

Time--> 9.30 9.40





#49

1,4-Dioxane

Concen: 3.006 ug/l

RT: 9.56 min Scan# 1299

Delta R.T. 0.10 min

Lab File: VD066657.D

Acq: 11 Sep 2020 19:14

Instrument :
MSVOA_D
ClientSampleId :

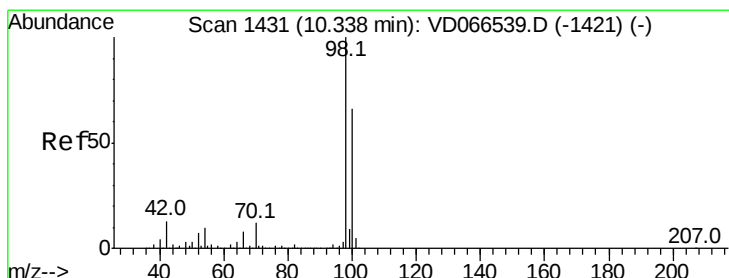
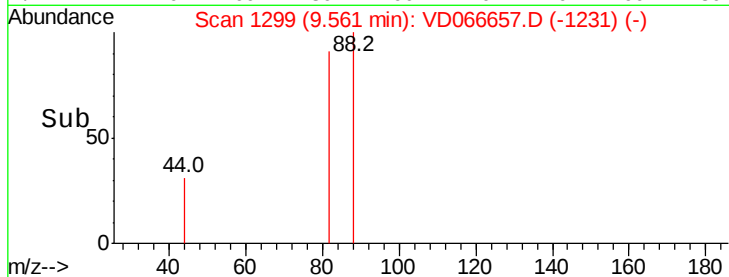
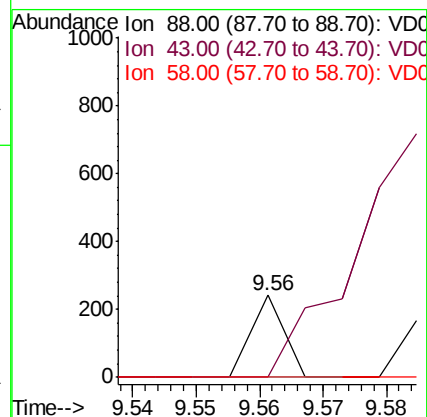
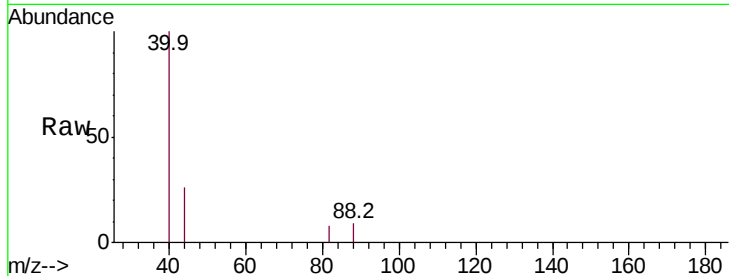
Tot Ion: 88 Resp: 85

Ion Ratio Lower Upper

88 100

43 0.0 28.3 42.5#

58 0.0 56.1 84.1#



#50

Toluene-d8

Concen: 52.077 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VD066657.D

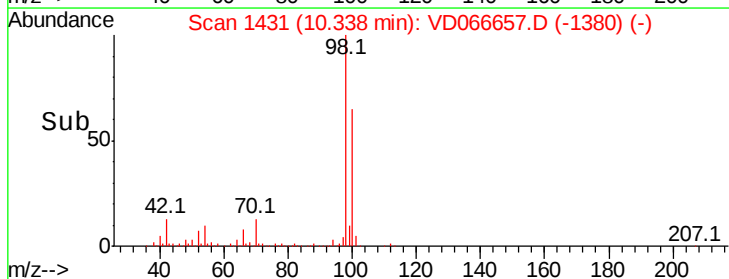
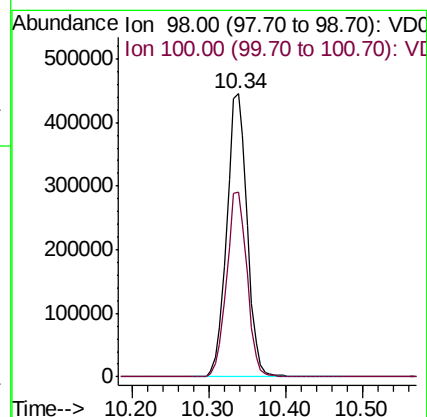
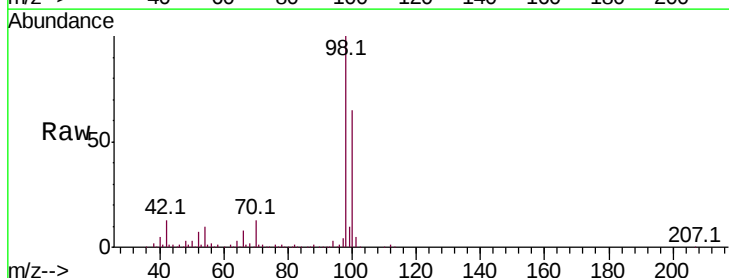
Acq: 11 Sep 2020 19:14

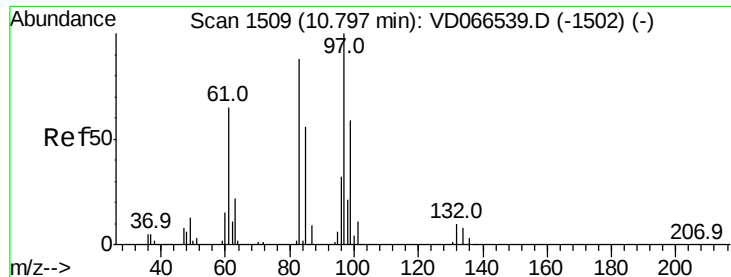
Tgt Ion: 98 Resp: 818371

Ion Ratio Lower Upper

98 100

100 65.5 52.9 79.3





#55

1,1,2-Trichloroethane

Concen: 1.350 ug/l

RT: 10.77 min Scan# 1505

Delta R.T. -0.02 min

Lab File: VD066657.D

Acq: 11 Sep 2020 19:14

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 97 Resp: 4473

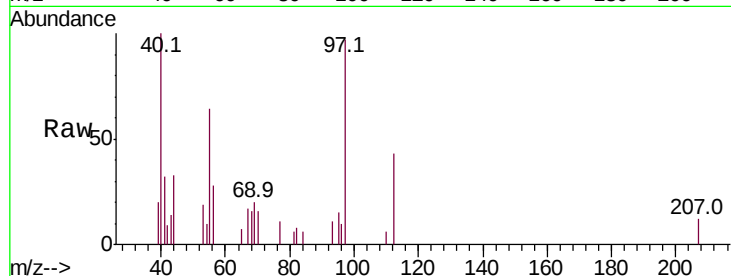
Ion Ratio Lower Upper

97 100

83 0.0 70.1 105.1#

85 0.0 44.5 66.7#

99 0.0 47.1 70.7#

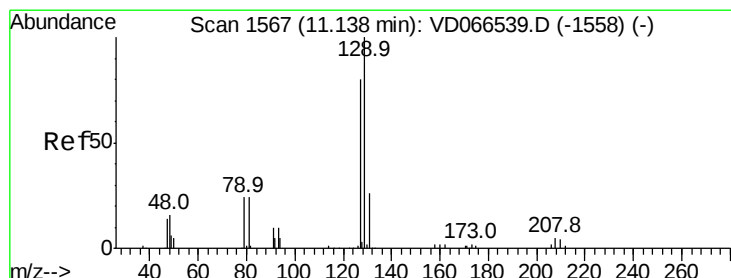
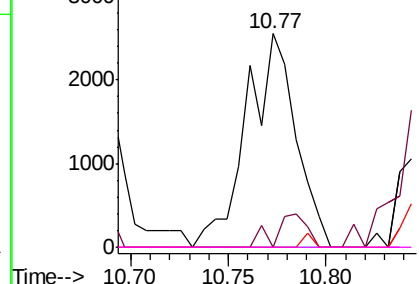
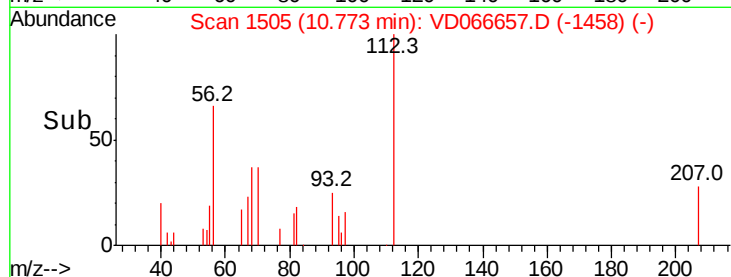


Abundance Ion 96.90 (96.60 to 97.60): VDC

Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 98.90 (98.60 to 99.60): VDC



#60

Dibromochloromethane

Concen: 679.097 ug/l

RT: 10.87 min Scan# 1522

Delta R.T. -0.26 min

Lab File: VD066657.D

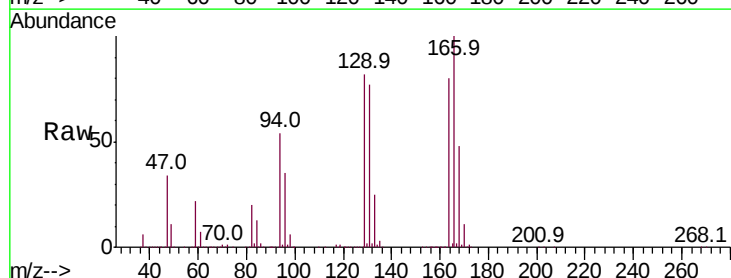
Acq: 11 Sep 2020 19:14

Tgt Ion:129 Resp: 2975912

Ion Ratio Lower Upper

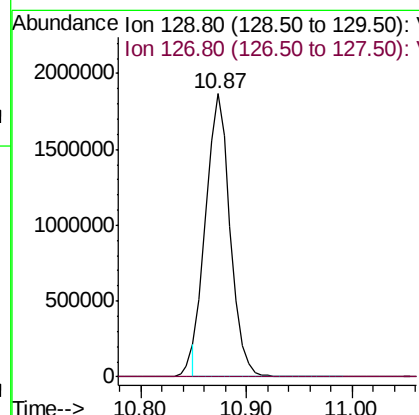
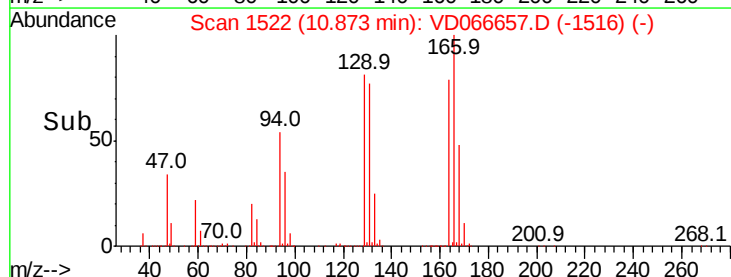
129 100

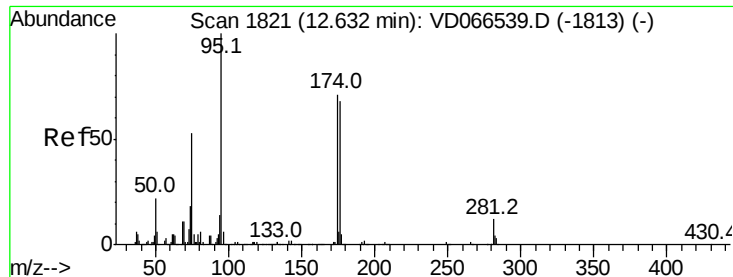
127 0.0 39.5 118.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 56.167 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.00 min

Lab File: VD066657.D

Acq: 11 Sep 2020 19:14

Instrument :

MSVOA_D

ClientSampleId :

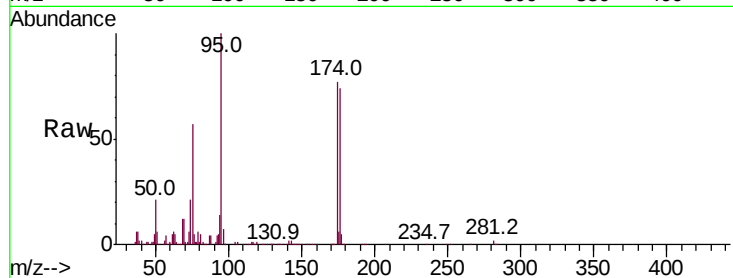
Tot Ion: 95 Resp: 292678

Ion Ratio Lower Upper

95 100

174 76.0 0.0 155.8

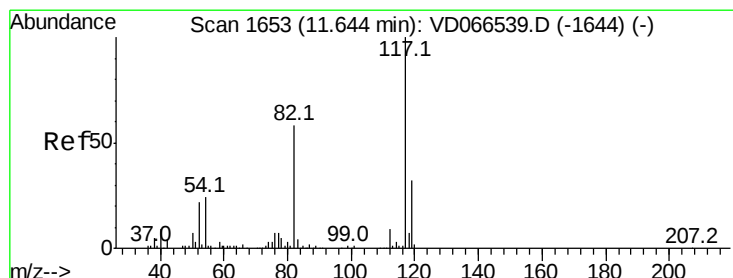
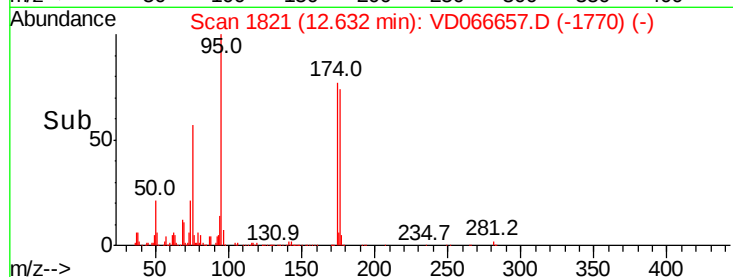
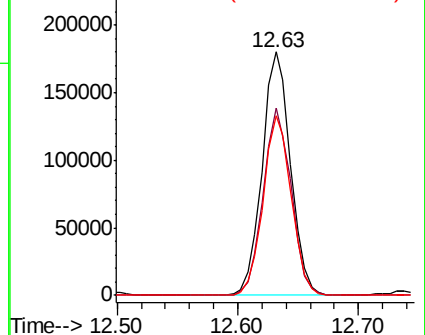
176 73.3 0.0 148.6



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: 11.64 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VD066657.D

Acq: 11 Sep 2020 19:14

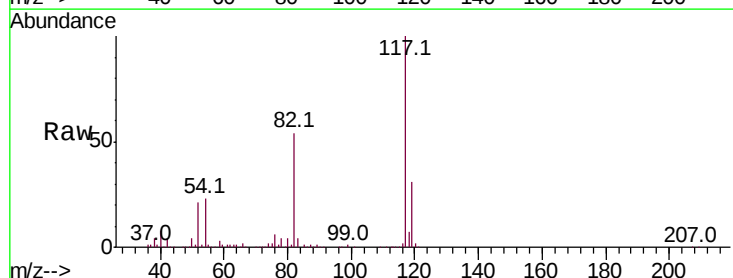
Tgt Ion: 117 Resp: 615748

Ion Ratio Lower Upper

117 100

82 54.1 46.2 69.2

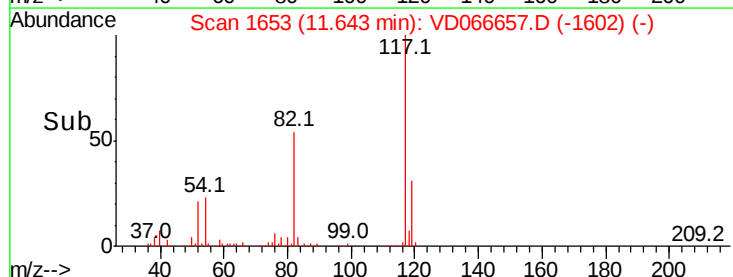
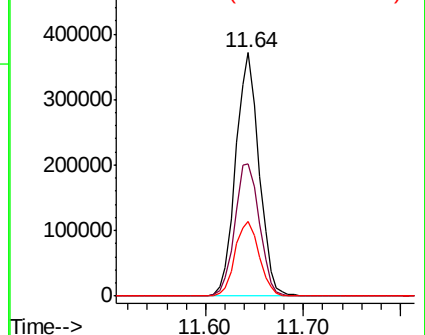
119 30.9 25.8 38.8

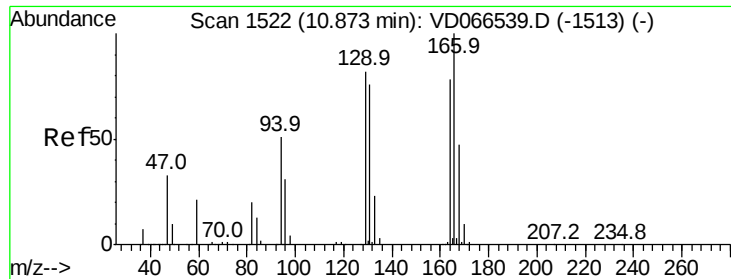


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V

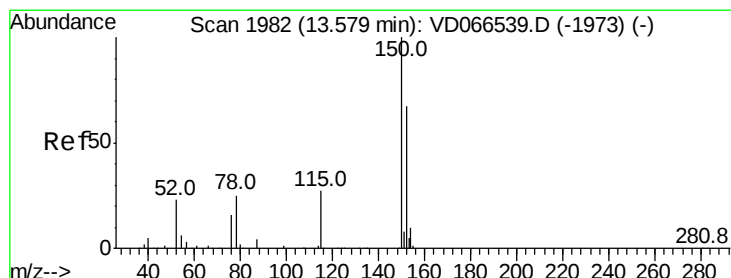
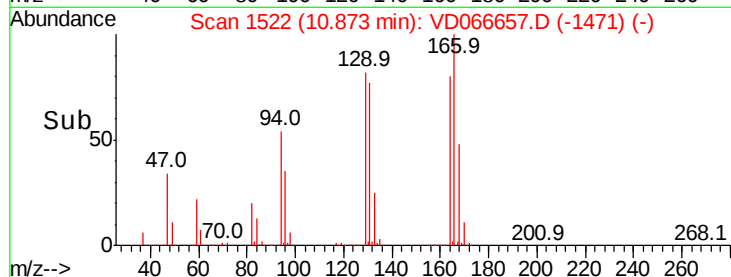
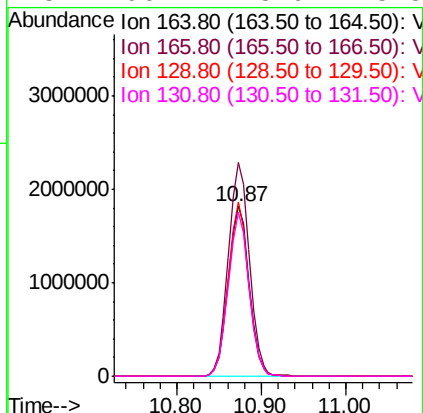
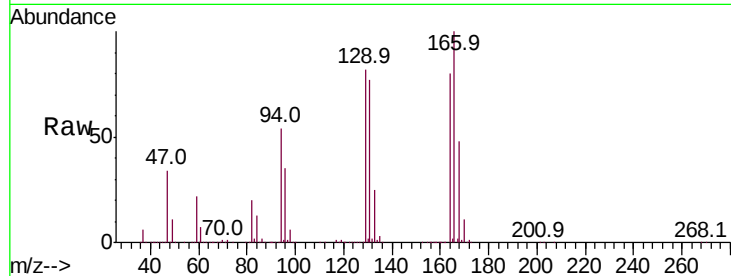




#64
Tetrachloroethene
Concen: 746.596 ug/l
RT: 10.87 min Scan# 1522
Delta R.T. -0.00 min
Lab File: VD066657.D
Acq: 11 Sep 2020 19:14

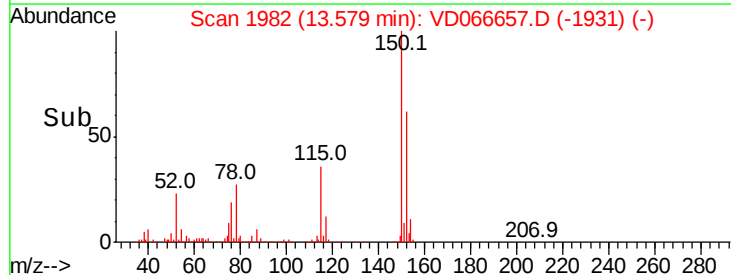
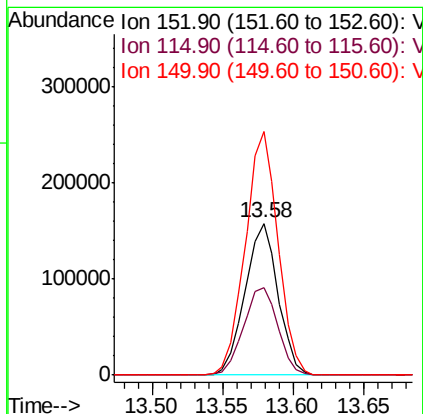
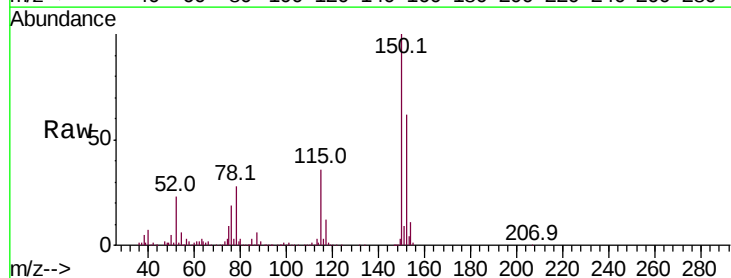
Instrument :
MSVOA_D
ClientSampleId :

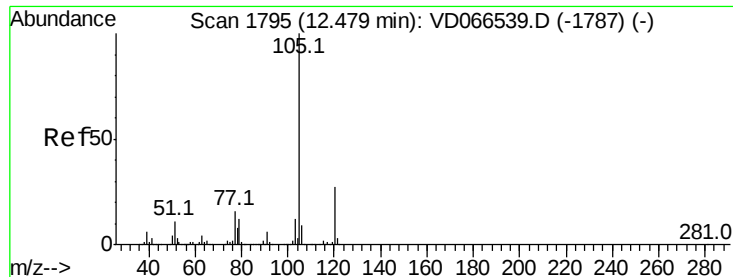
Tot Ion:164 Resp: 3095277
Ion Ratio Lower Upper
164 100
166 125.8 103.2 154.8
129 102.7 84.5 126.7
131 96.4 78.9 118.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.00 min
Lab File: VD066657.D
Acq: 11 Sep 2020 19:14

Tgt Ion:152 Resp: 259470
Ion Ratio Lower Upper
152 100
115 60.3 30.4 91.2
150 158.8 0.0 345.8





#73

Isopropylbenzene

Concen: 3.750 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.01 min

Lab File: VD066657.D

Acq: 11 Sep 2020 19:14

Instrument :

MSVOA_D

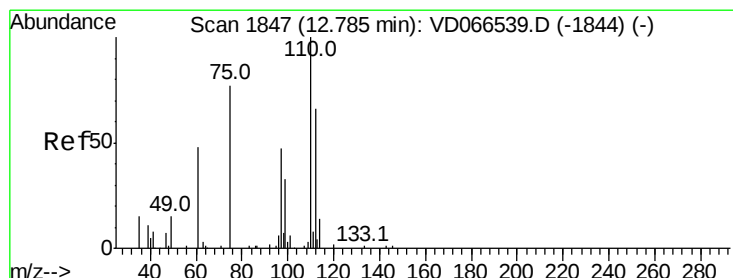
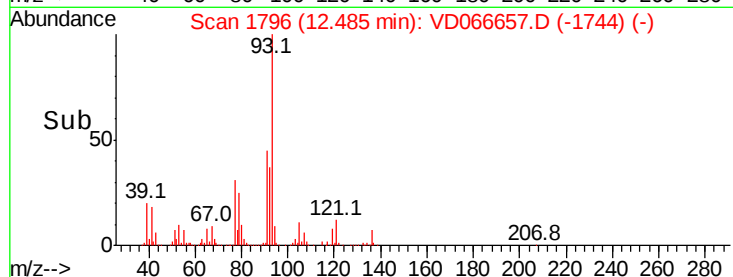
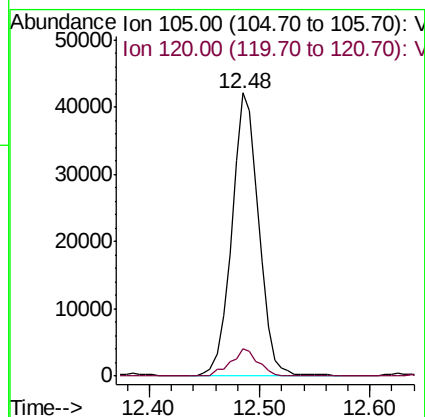
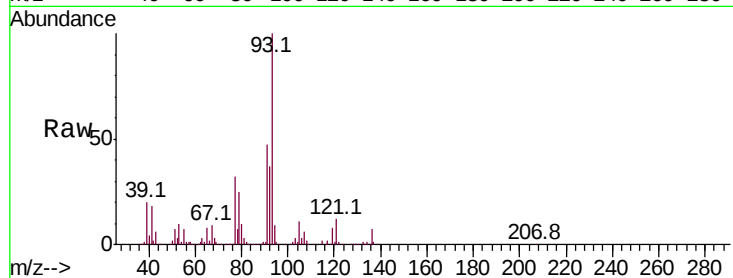
ClientSampleId :

Tot Ion: 105 Resp: 72049

Ion Ratio Lower Upper

105 100

120 9.7 13.0 39.0#



#76

1,2,3-Trichloropropane

Concen: 66.266 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066657.D

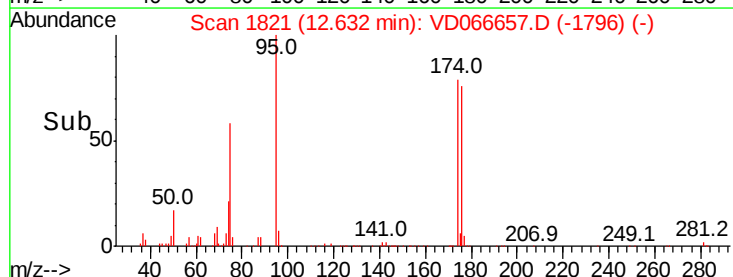
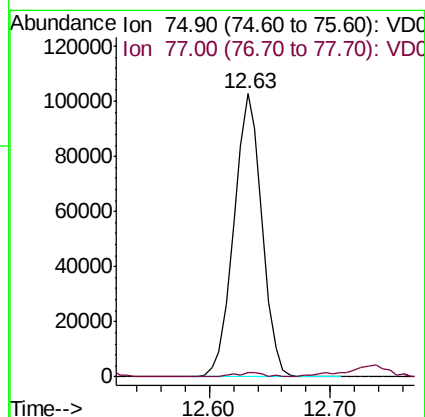
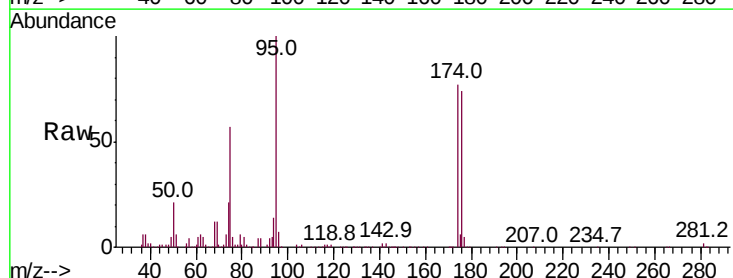
Acq: 11 Sep 2020 19:14

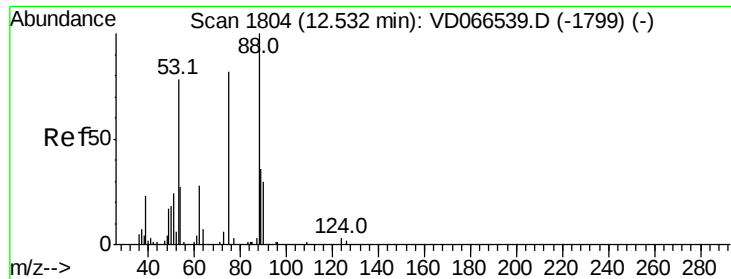
Tgt Ion: 75 Resp: 165361

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0





#81

trans-1,4-Dichloro-2-butene

Concen: 154.708 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066657.D

Acq: 11 Sep 2020 19:14

Instrument :

MSVOA_D

ClientSampleId :

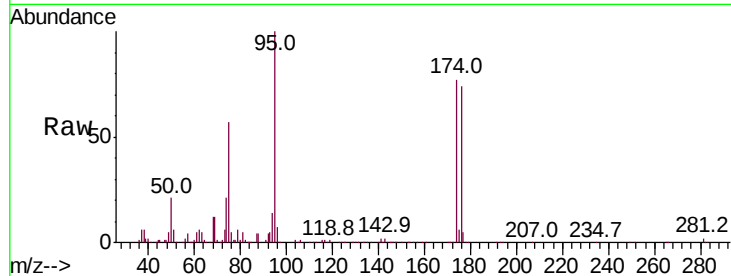
Tot Ion: 75 Resp: 165361

Ion Ratio Lower Upper

75 100

53 0.0 87.0 130.4#

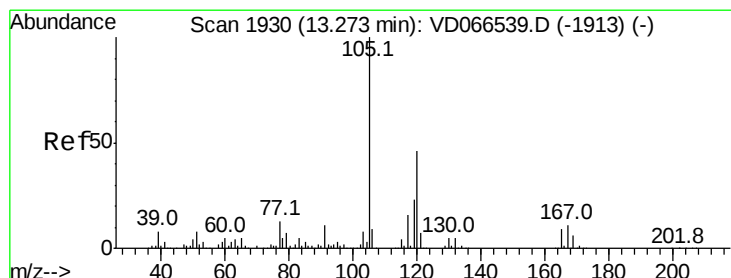
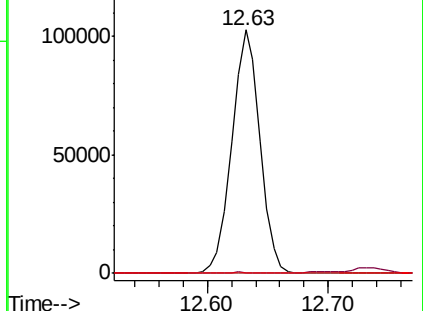
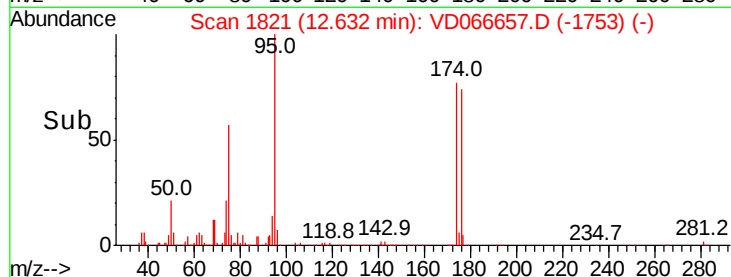
89 0.0 37.1 55.7#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 53.00 (52.70 to 53.70): V

Ion 88.90 (88.60 to 89.60): V



#84

1,2,4-Trimethylbenzene

Concen: 1.202 ug/l

RT: 13.27 min Scan# 1929

Delta R.T. -0.01 min

Lab File: VD066657.D

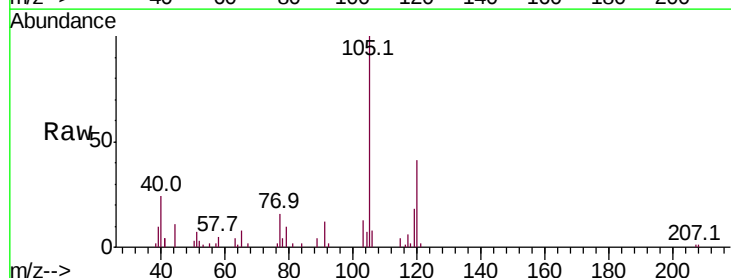
Acq: 11 Sep 2020 19:14

Tgt Ion:105 Resp: 19358

Ion Ratio Lower Upper

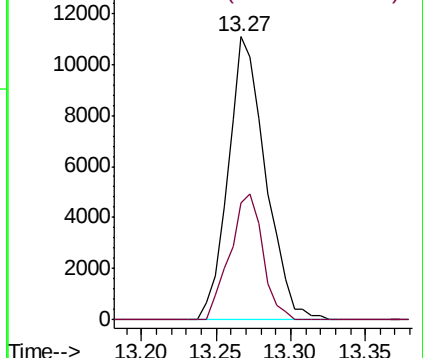
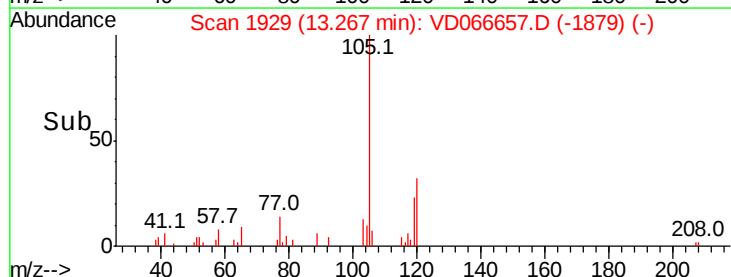
105 100

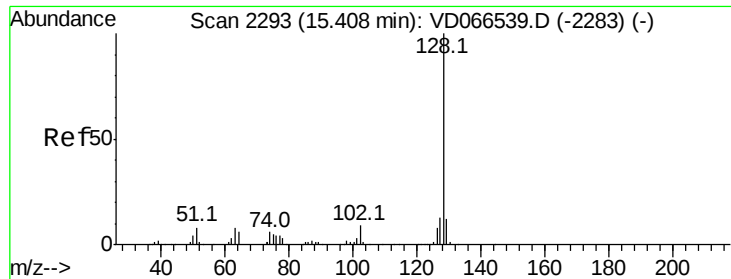
120 39.1 22.6 67.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

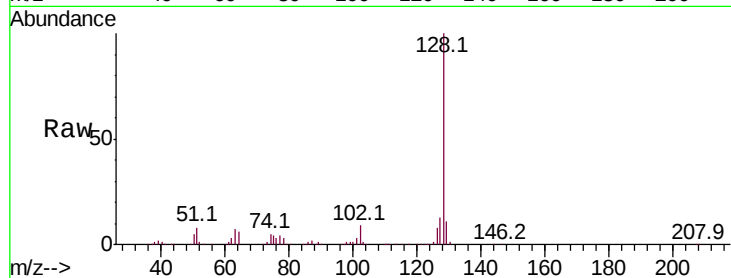




#95
Naphthalene
Concen: 77.422 ug/l
RT: 15.41 min Scan# 2293
Delta R.T. -0.00 min
Lab File: VD066657.D
Acq: 11 Sep 2020 19:14

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.7	16.1
129	11.2	9.1	13.7



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

