

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD091420\
 Data File : VD066675.D
 Acq On : 14 Sep 2020 16:05
 Operator : VA/SY
 Sample : L3928-09
 Misc : 6.06G/5.00ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Sep 15 01:26:22 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	7.97	168	460660	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	815214	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	793077	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	374890	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	296280	53.16	ug/l	0.00
Spiked Amount			Recovery	=	106.32%	
35) Dibromofluoromethane	7.91	113	276276	50.24	ug/l	0.00
Spiked Amount			Recovery	=	100.48%	
50) Toluene-d8	10.34	98	1011714	51.47	ug/l	0.00
Spiked Amount			Recovery	=	102.94%	
62) 4-Bromofluorobenzene	12.63	95	385194	59.10	ug/l	0.00
Spiked Amount			Recovery	=	118.20%	

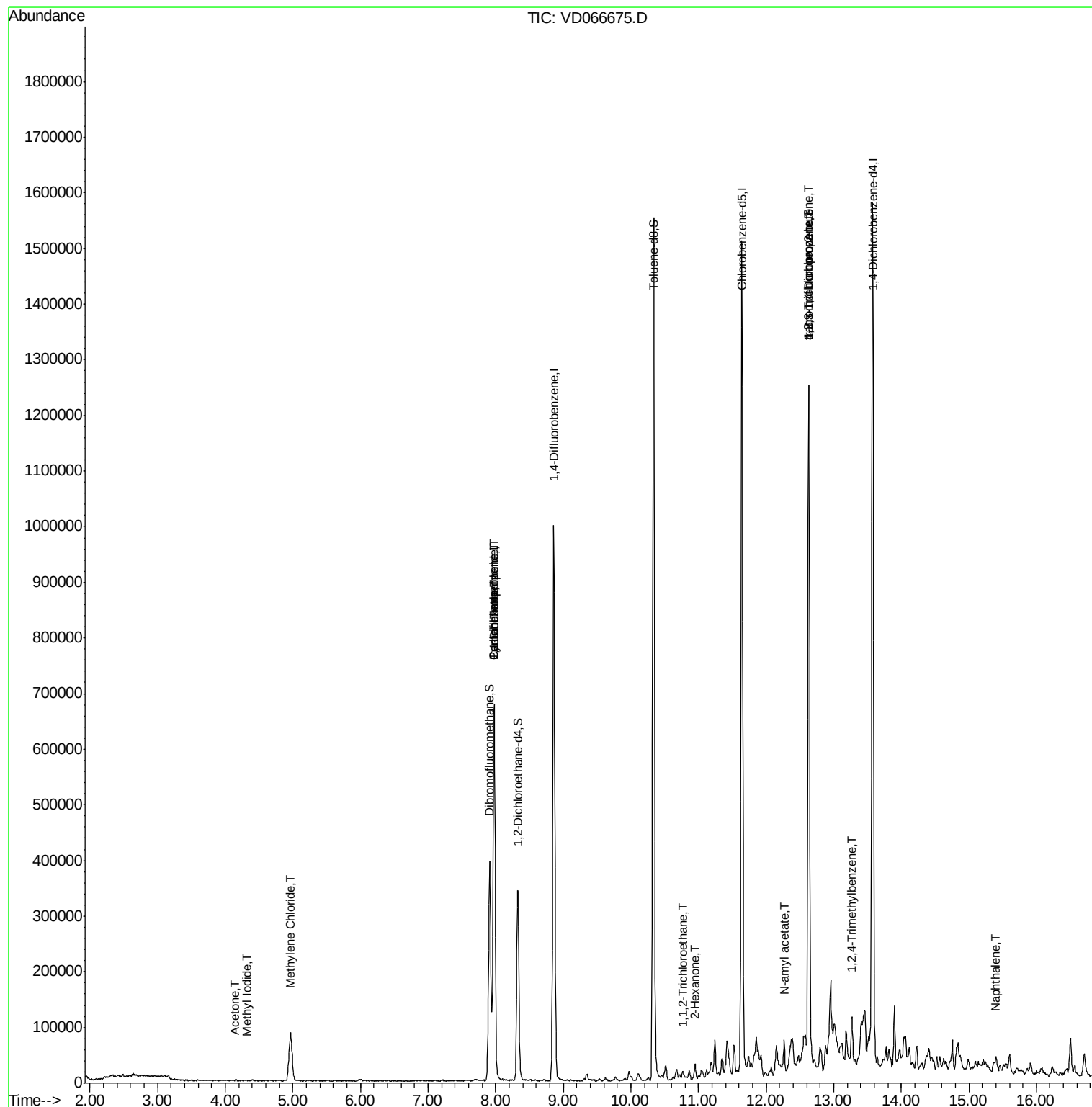
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.00	85	569	Below Cal	#	46
5) Bromomethane	2.76	94	492	Below Cal	#	57
10) Methyl Iodide	4.31	142	315	4.085	ug/l #	35
16) Acetone	4.16	43	2104	2.052	ug/l #	46
20) Methylene Chloride	4.96	84	64877	5.751	ug/l	88
31) Cyclohexane	7.98	56	13002	1.430	ug/l #	41
36) 1,1-Dichloropropene	7.97	75	42646	5.027	ug/l #	50
38) Carbon Tetrachloride	7.97	117	53098	5.921	ug/l #	16
55) 1,1,2-Trichloroethane	10.77	97	5246	1.266	ug/l #	15
59) 2-Hexanone	10.94	43	12142	5.530	ug/l #	29
74) N-amyl acetate	12.27	43	12400	1.972	ug/l #	59
76) 1,2,3-Trichloropropane	12.63	75	214944	59.617	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	214944	139.184	ug/l #	7
84) 1,2,4-Trimethylbenzene	13.27	105	46810	2.013	ug/l	97
95) Naphthalene	15.41	128	22846	2.029	ug/l #	92

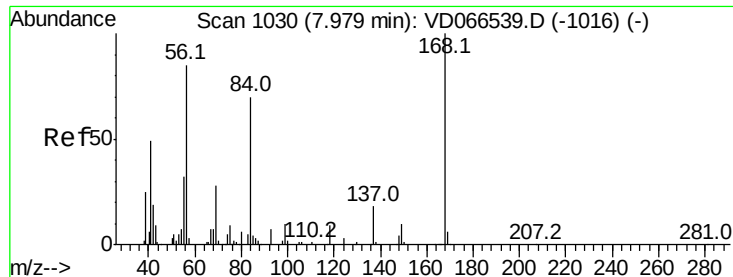
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VD066675.D

Acq: 14 Sep 2020 16:05

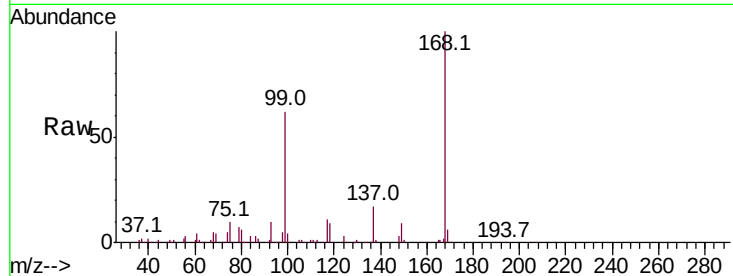
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 460660

Ion Ratio Lower Upper

168 100

99 61.8 50.5 75.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.97

250000

200000

150000

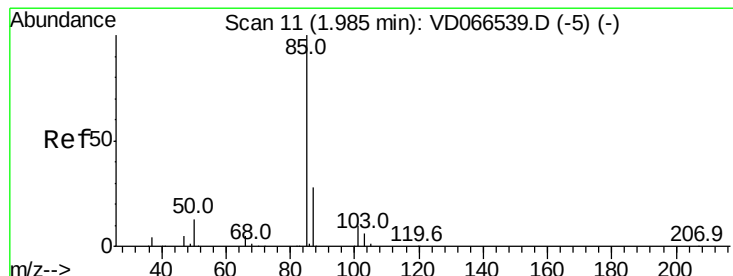
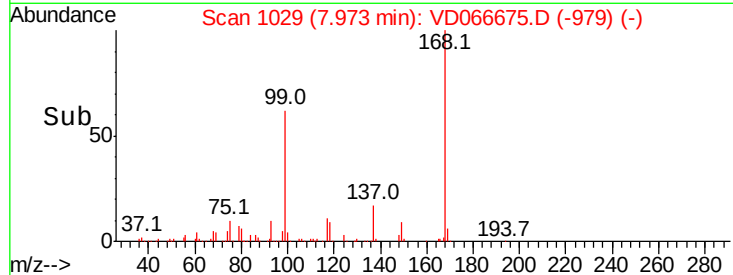
100000

50000

0

Time-->

7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.00 min Scan# 13

Delta R.T. 0.01 min

Lab File: VD066675.D

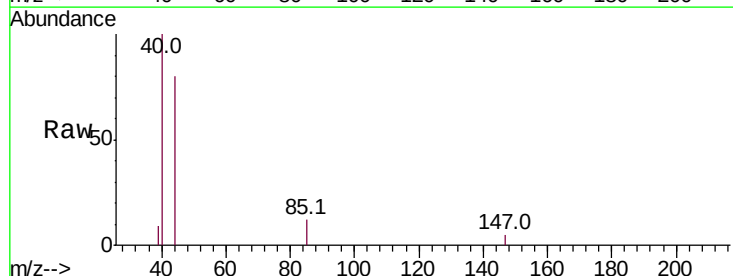
Acq: 14 Sep 2020 16:05

Tgt Ion: 85 Resp: 569

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

2.00

500

400

300

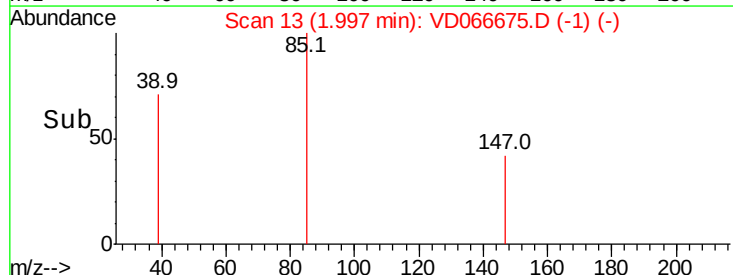
200

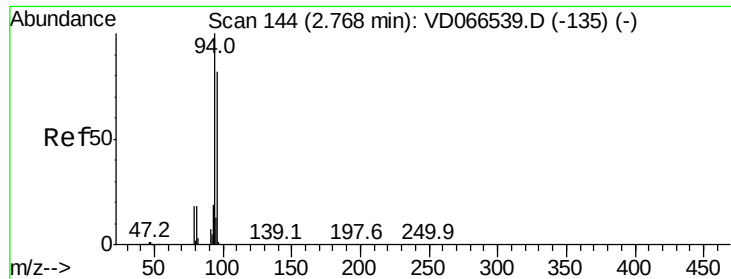
100

0

Time-->

1.94 1.96 1.98 2.00 2.02





#5

Bromomethane

Concen: Below Cal

RT: 2.76 min Scan# 143

Delta R.T. -0.01 min

Lab File: VD066675.D

Acq: 14 Sep 2020 16:05

Instrument :

MSVOA_D

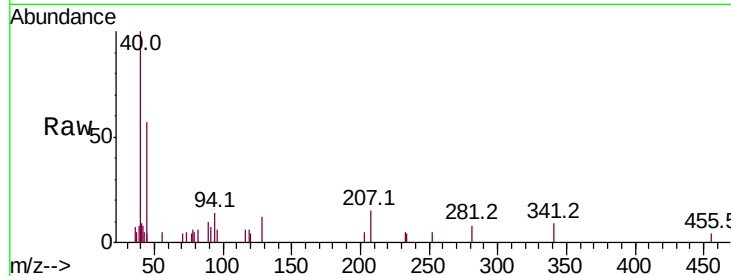
ClientSampled :

Tot Ion: 94 Resp: 492

Ion Ratio Lower Upper

94 100

96 42.8 65.2 97.8#

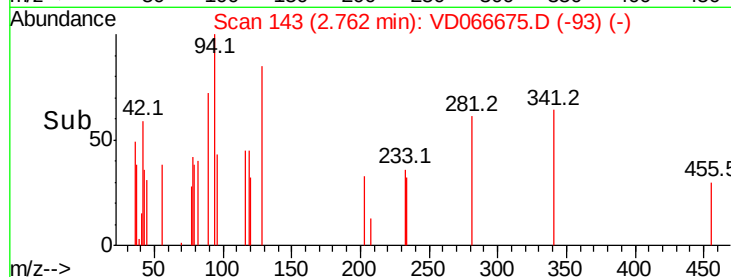


Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.76

Time-->

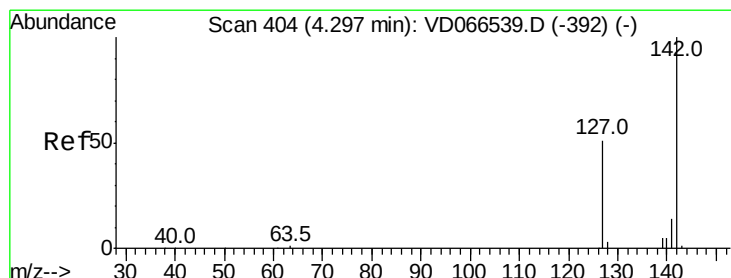


Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.76

Time-->



#10

Methyl Iodide

Concen: 4.085 ug/l

RT: 4.31 min Scan# 407

Delta R.T. 0.02 min

Lab File: VD066675.D

Acq: 14 Sep 2020 16:05

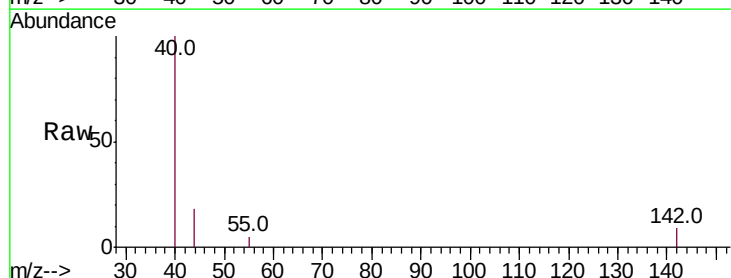
Tgt Ion: 142 Resp: 315

Ion Ratio Lower Upper

142 100

127 0.0 40.6 61.0#

141 0.0 12.2 18.4#



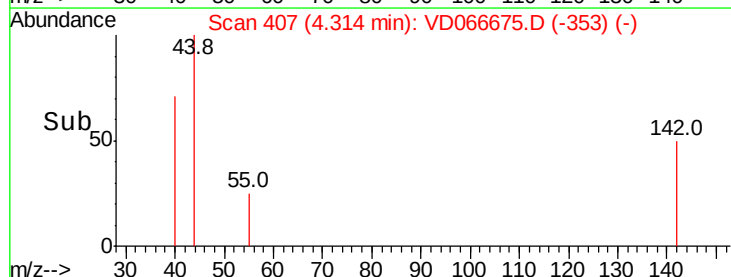
Abundance Ion 141.80 (141.50 to 142.50): V

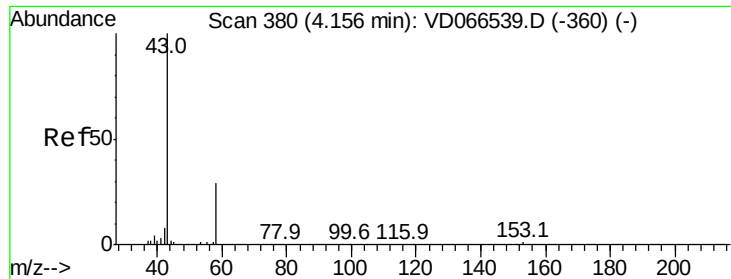
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

4.31

Time-->

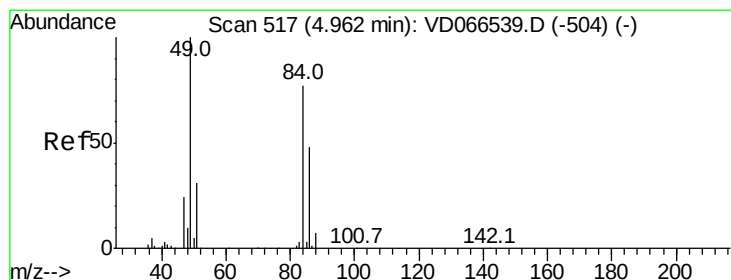
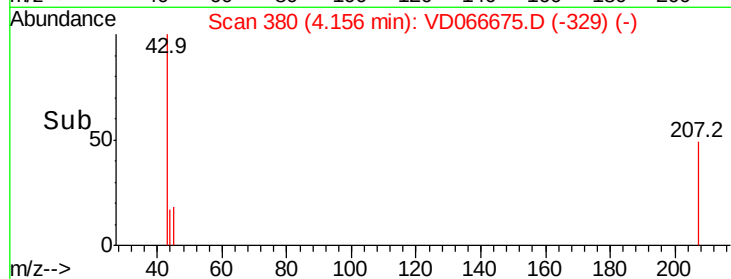
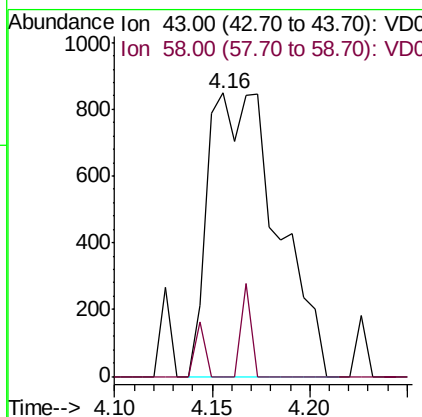
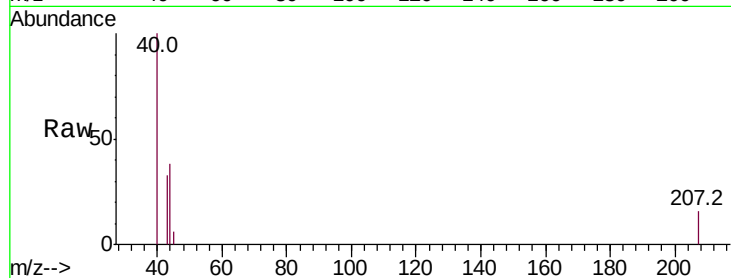




#16
Acetone
Concen: 2.052 ug/l
RT: 4.16 min Scan# 380
Delta R.T. -0.00 min
Lab File: VD066675.D
Acq: 14 Sep 2020 16:05

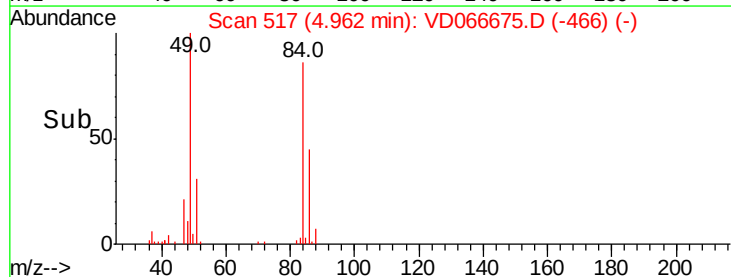
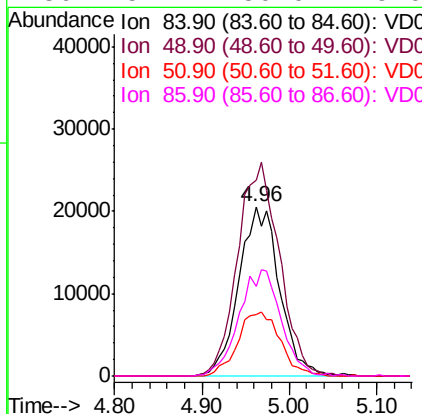
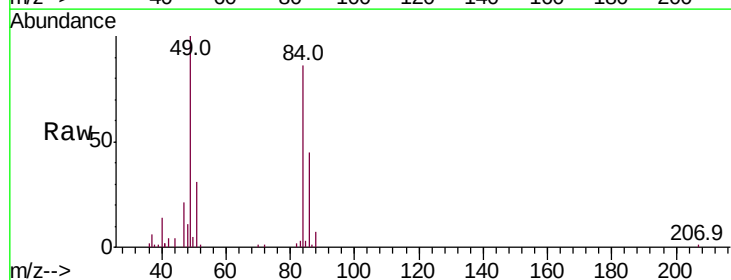
Instrument :
MSVOA_D
ClientSampled :

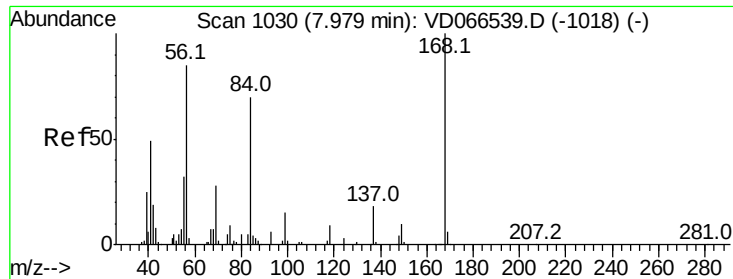
Tot Ion: 43 Resp: 2104
Ion Ratio Lower Upper
43 100
58 0.0 22.9 34.3#



#20
Methylene Chloride
Concen: 5.751 ug/l
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD066675.D
Acq: 14 Sep 2020 16:05

Tgt Ion: 84 Resp: 64877
Ion Ratio Lower Upper
84 100
49 115.9 104.3 156.5
51 36.2 32.2 48.4
86 52.7 50.0 75.0

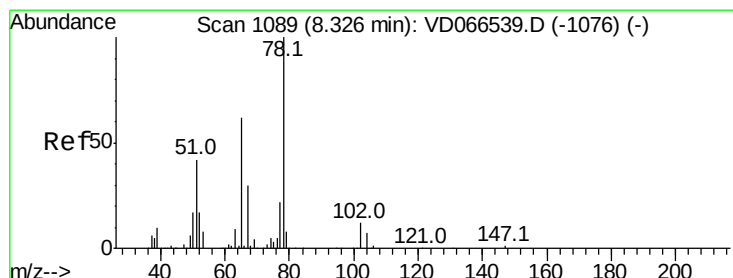
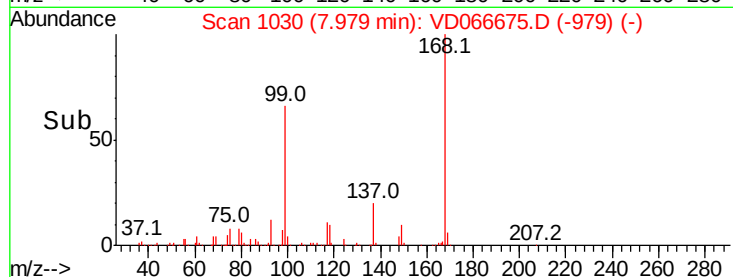
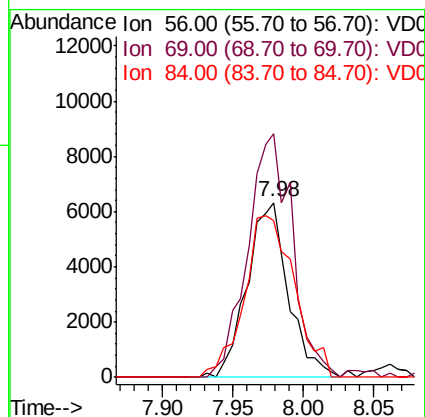
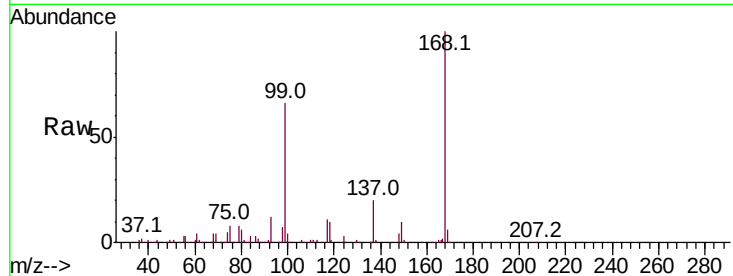




#31
Cyclohexane
Concen: 1.430 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VD066675.D
Acq: 14 Sep 2020 16:05

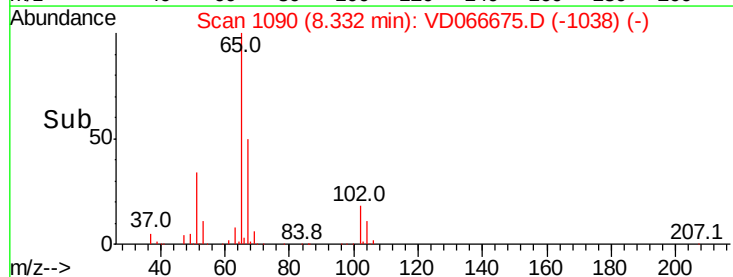
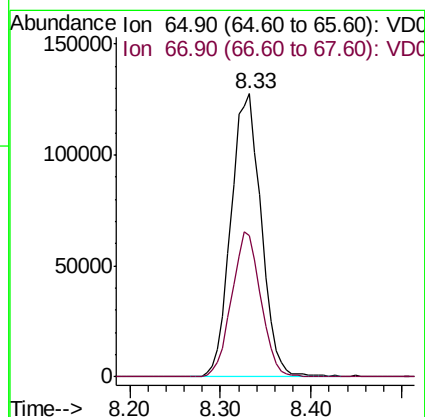
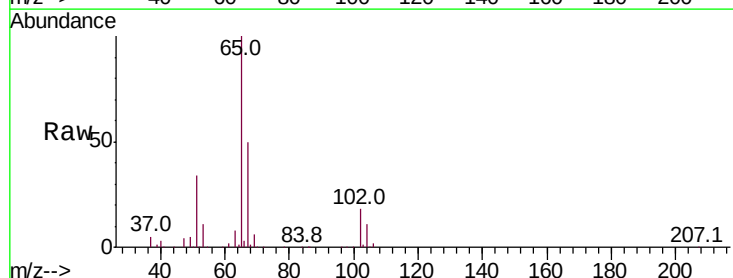
Instrument :
MSVOA_D
ClientSampled :

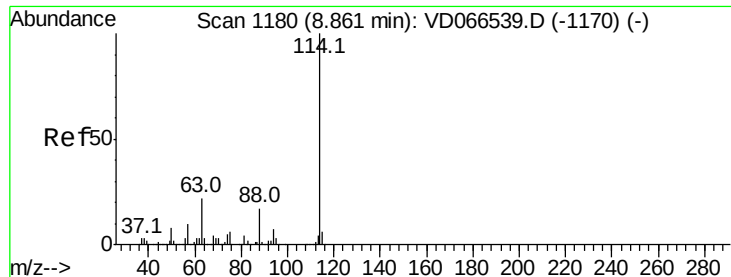
Tot Ion: 56 Resp: 13002
Ion Ratio Lower Upper
56 100
69 139.3 26.3 39.5#
84 89.8 66.1 99.1



#33
1,2-Dichloroethane-d4
Concen: 53.158 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. 0.01 min
Lab File: VD066675.D
Acq: 14 Sep 2020 16:05

Tgt Ion: 65 Resp: 296280
Ion Ratio Lower Upper
65 100
67 49.3 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: VD066675.D

Acq: 14 Sep 2020 16:05

Instrument :

MSVOA_D

ClientSampleId :

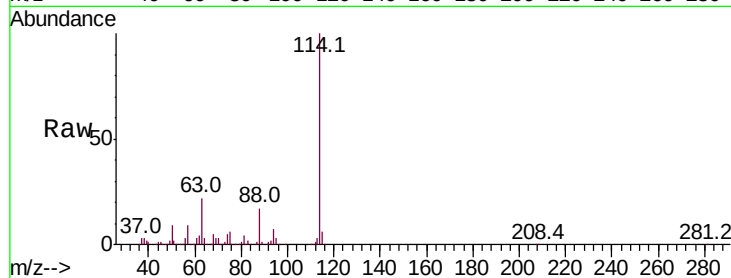
Tot Ion:114 Resp: 815214

Ion Ratio Lower Upper

114 100

63 22.1 0.0 43.2

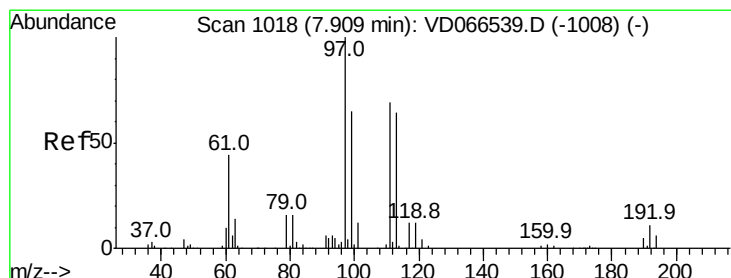
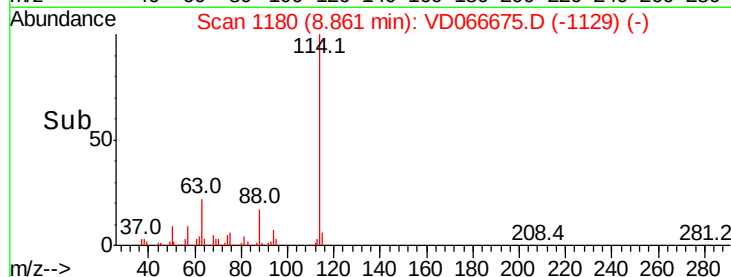
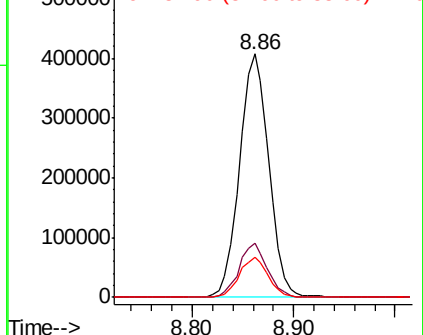
88 16.6 0.0 33.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 50.237 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. 0.01 min

Lab File: VD066675.D

Acq: 14 Sep 2020 16:05

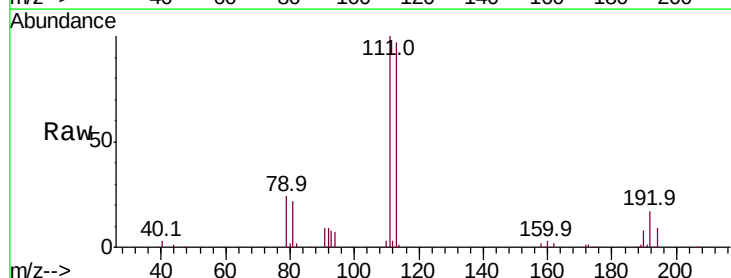
Tgt Ion:113 Resp: 276276

Ion Ratio Lower Upper

113 100

111 101.7 83.2 124.8

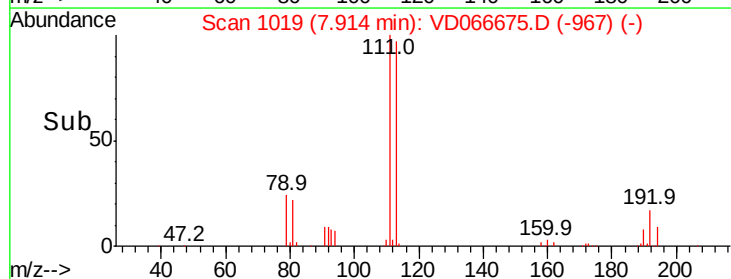
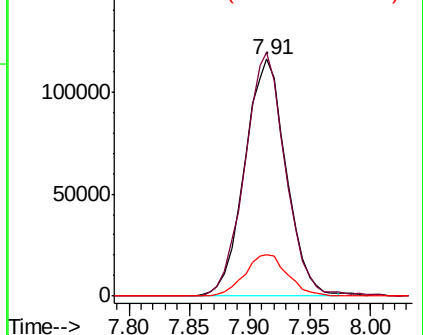
192 17.9 13.7 20.5

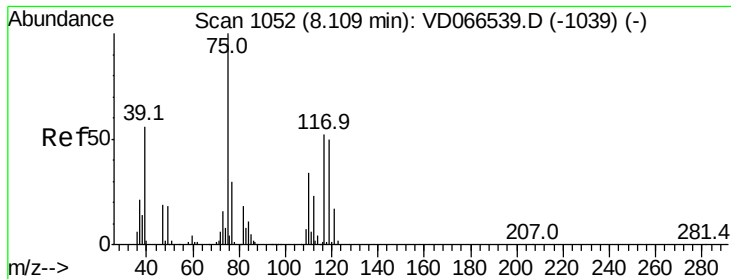


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.027 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.14 min

Lab File: VD066675.D

Acq: 14 Sep 2020 16:05

Instrument :

MSVOA_D

ClientSampled :

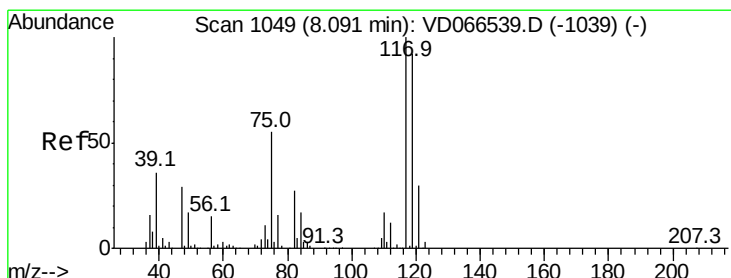
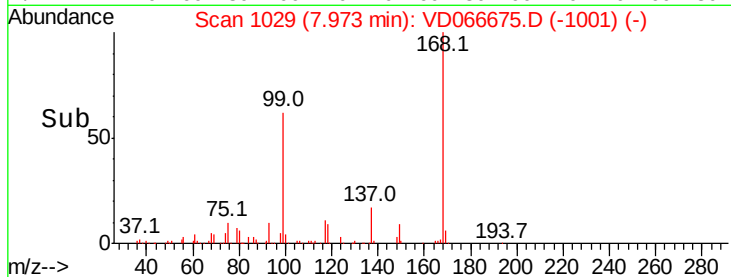
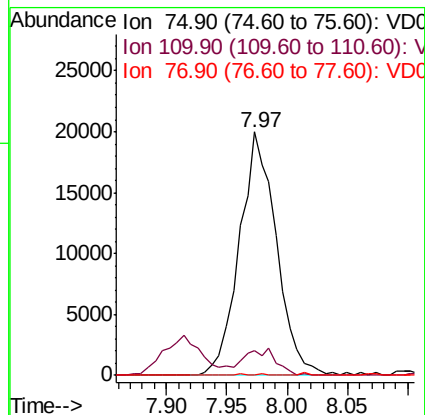
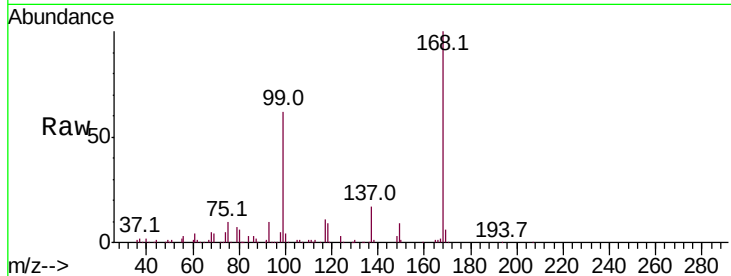
Tot Ion: 75 Resp: 42646

Ion Ratio Lower Upper

75 100

110 9.1 17.3 52.0#

77 0.1 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 5.921 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.12 min

Lab File: VD066675.D

Acq: 14 Sep 2020 16:05

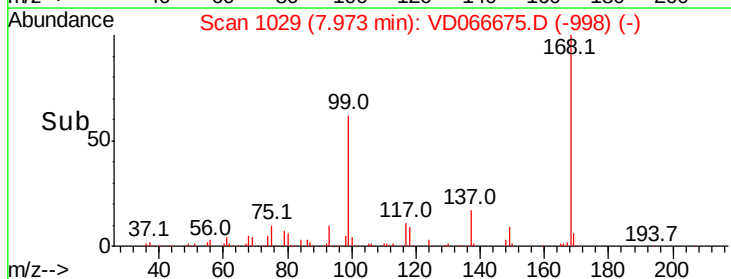
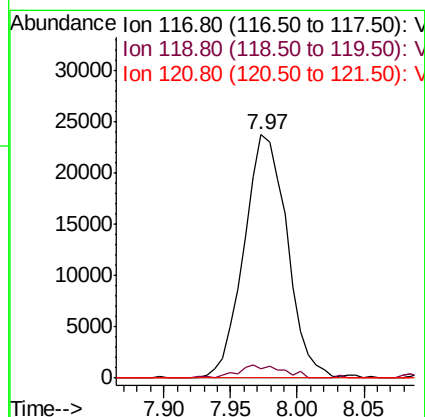
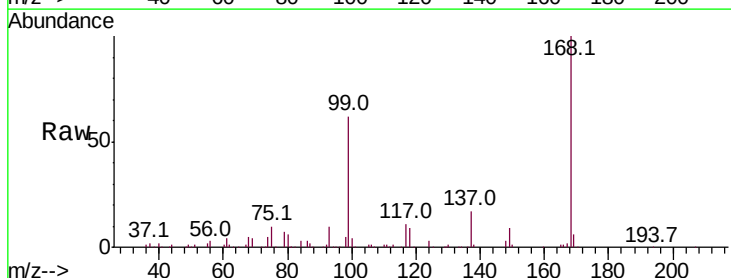
Tgt Ion: 117 Resp: 53098

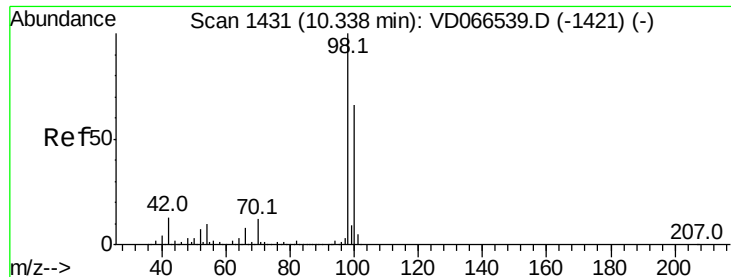
Ion Ratio Lower Upper

117 100

119 3.7 73.9 110.9#

121 0.0 24.1 36.1#

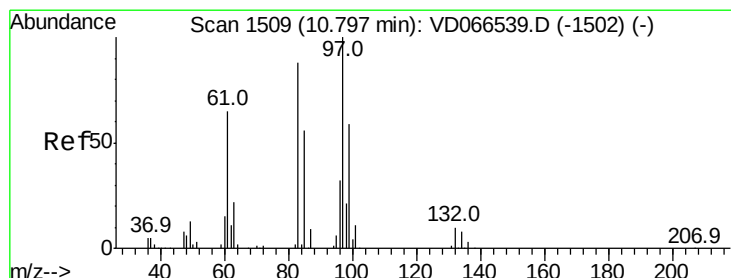
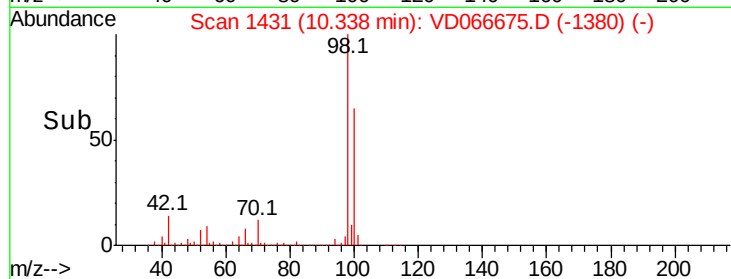
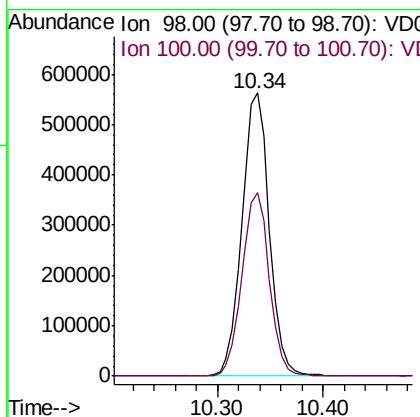
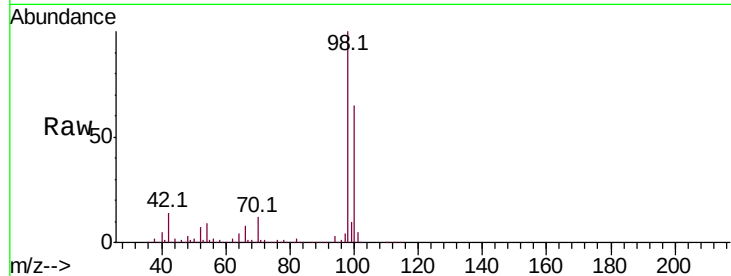




#50
Toluene-d8
Concen: 51.471 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. -0.00 min
Lab File: VD066675.D
Acq: 14 Sep 2020 16:05

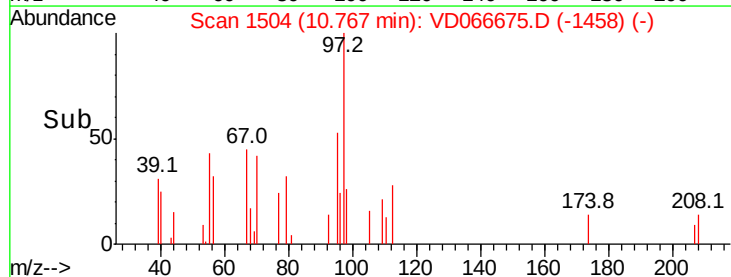
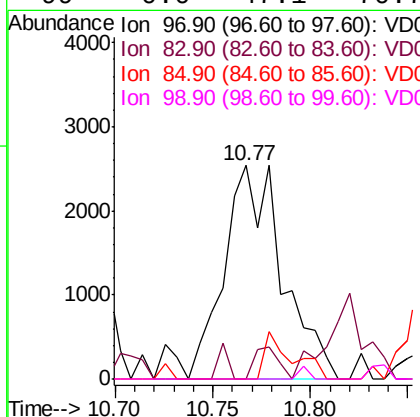
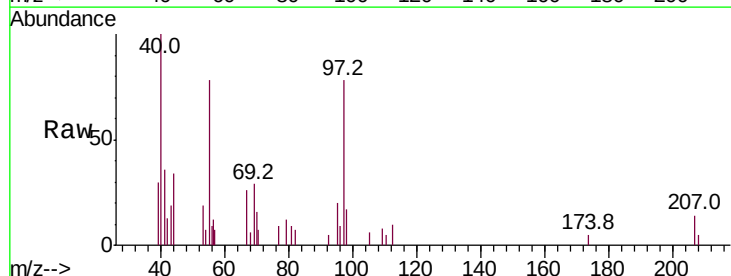
Instrument :
MSVOA_D
ClientSampleId :

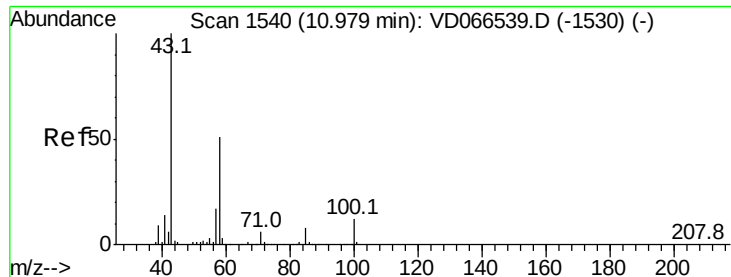
Tot Ion: 98 Resp: 1011714
Ion Ratio Lower Upper
98 100
100 65.0 52.9 79.3



#55
1,1,2-Trichloroethane
Concen: 1.266 ug/l
RT: 10.77 min Scan# 1504
Delta R.T. -0.03 min
Lab File: VD066675.D
Acq: 14 Sep 2020 16:05

Tgt Ion: 97 Resp: 5246
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#

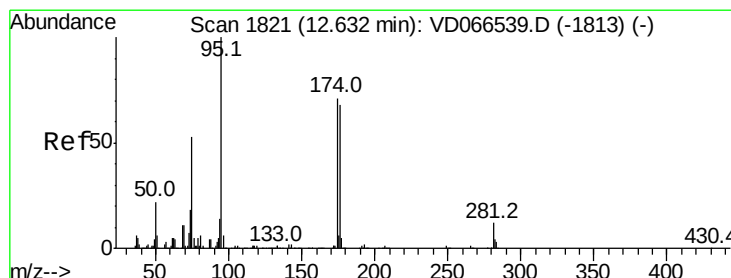
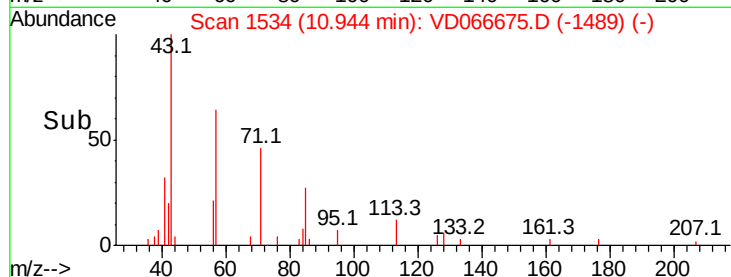
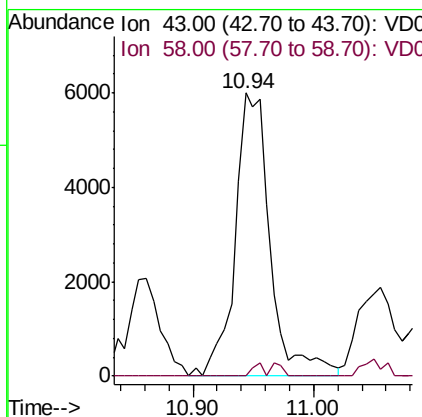
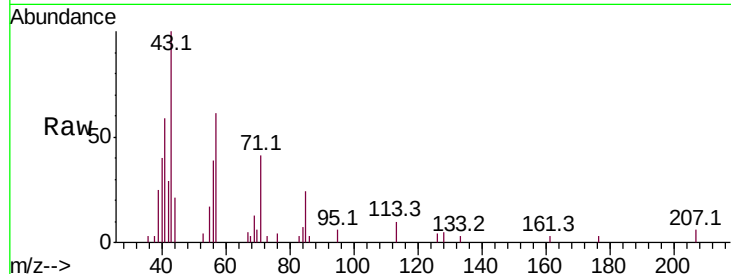




#59
2-Hexanone
Concen: 5.530 ug/l
RT: 10.94 min Scan# 1534
Delta R.T. -0.04 min
Lab File: VD066675.D
Acq: 14 Sep 2020 16:05

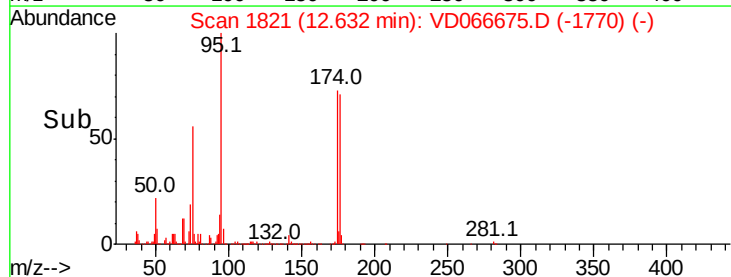
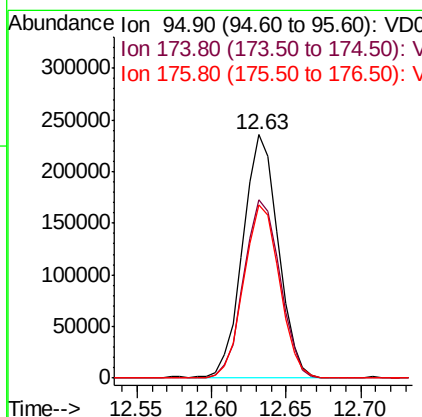
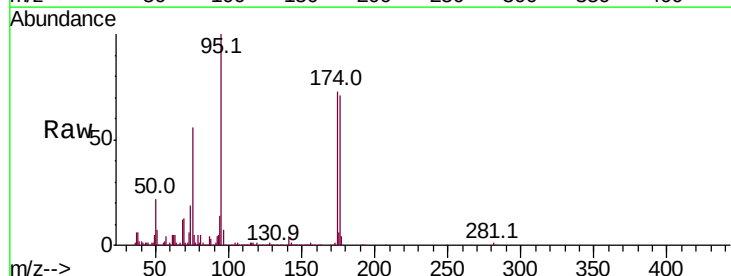
Instrument :
MSVOA_D
ClientSampleId :

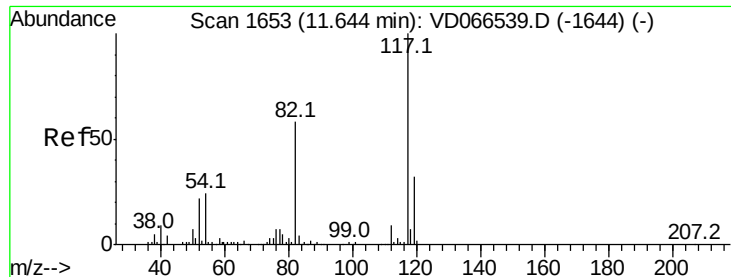
Tot Ion: 43 Resp: 12142
Ion Ratio Lower Upper
43 100
58 1.4 25.6 76.8#



#62
4-Bromofluorobenzene
Concen: 59.099 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. -0.00 min
Lab File: VD066675.D
Acq: 14 Sep 2020 16:05

Tgt Ion: 95 Resp: 385194
Ion Ratio Lower Upper
95 100
174 75.5 0.0 155.8
176 72.2 0.0 148.6

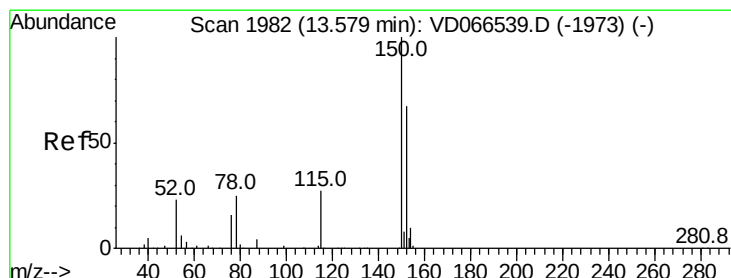
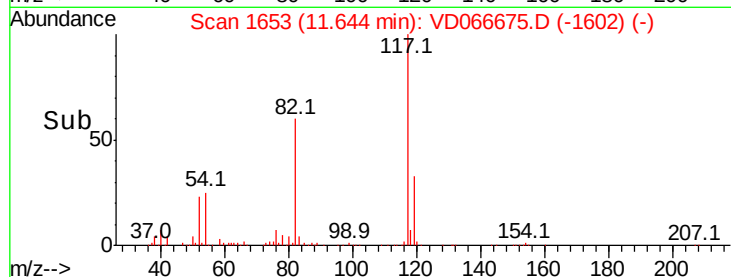
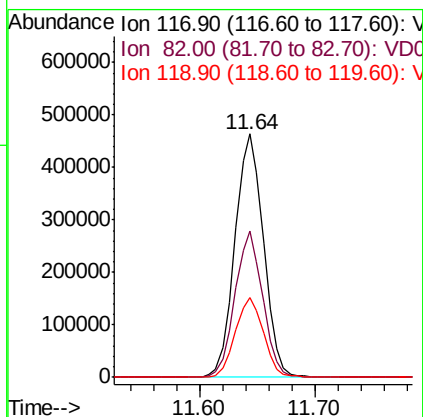
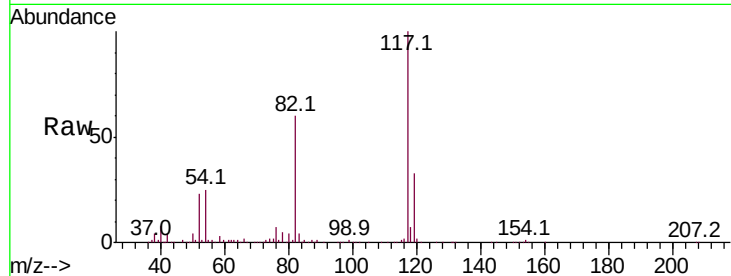




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VD066675.D
Acq: 14 Sep 2020 16:05

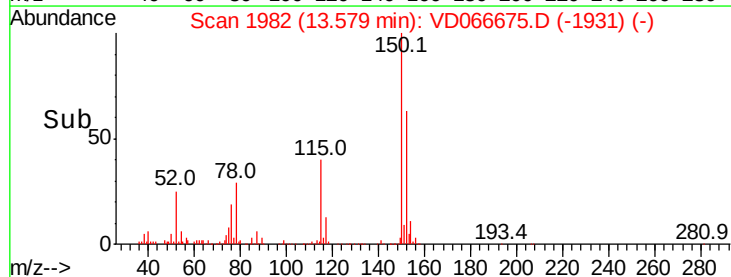
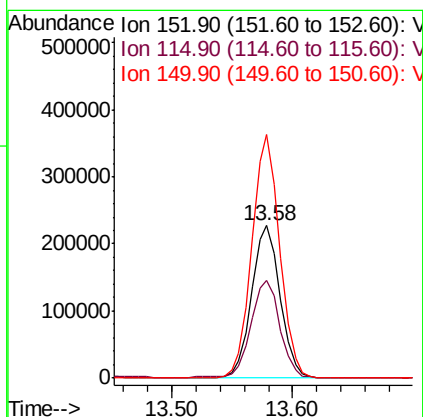
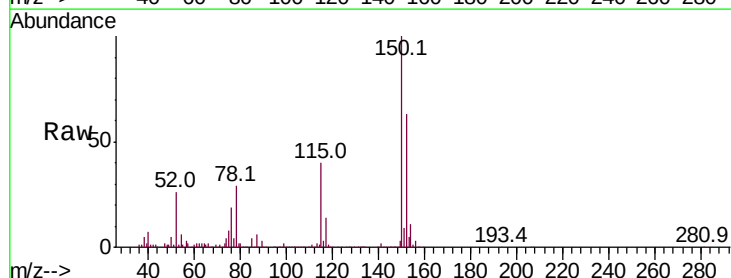
Instrument :
MSVOA_D
ClientSampleId :

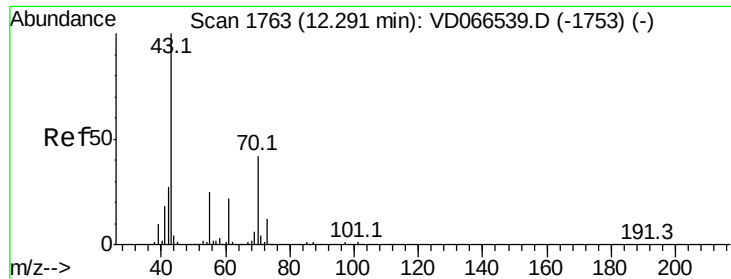
Tot Ion	Ratio	Lower	Upper
117	100		
82	59.8	46.2	69.2
119	32.8	25.8	38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.00 min
Lab File: VD066675.D
Acq: 14 Sep 2020 16:05

Tgt Ion	Ratio	Lower	Upper
152	100		
115	65.0	30.4	91.2
150	154.5	0.0	345.8





#74

N-amvl acetate

Concen: 1.972 ug/l

RT: 12.27 min Scan# 1759

Delta R.T. -0.02 min

Lab File: VD066675.D

Acq: 14 Sep 2020 16:05

Instrument :

MSVOA_D

ClientSampled :

Tot Ion: 43 Resp: 12400

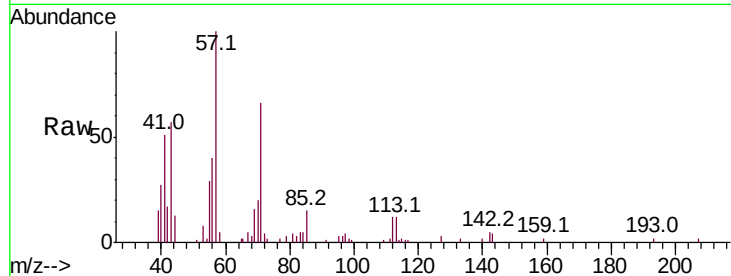
Ion Ratio Lower Upper

43 100

70 20.1 33.4 50.2#

55 47.7 20.1 30.1#

61 0.0 18.2 27.2#

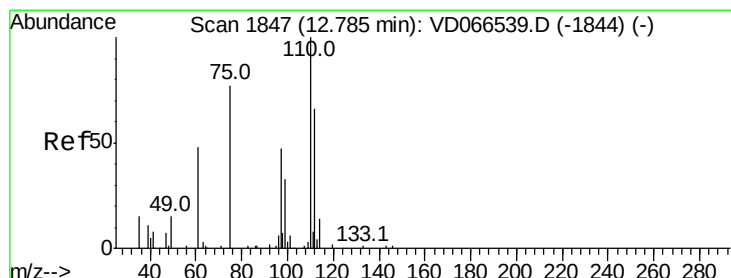
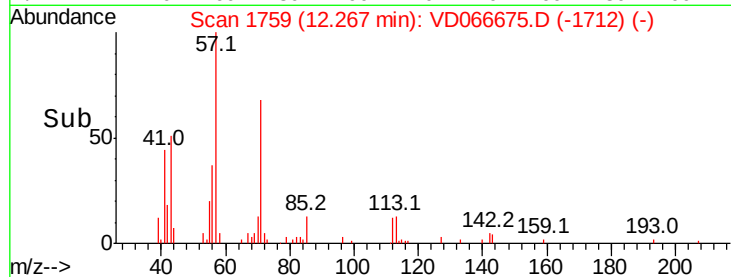
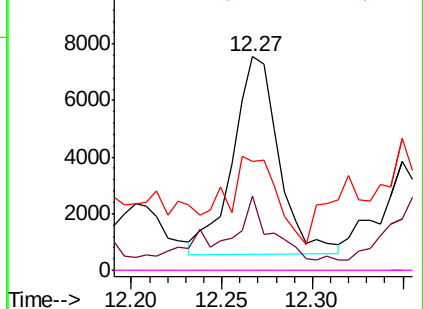


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC



#76

1,2,3-Trichloropropane

Concen: 59.617 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066675.D

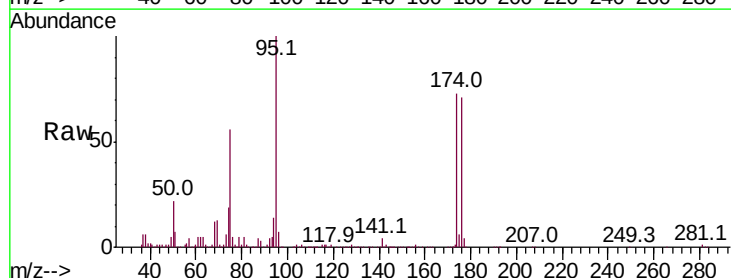
Acq: 14 Sep 2020 16:05

Tgt Ion: 75 Resp: 214944

Ion Ratio Lower Upper

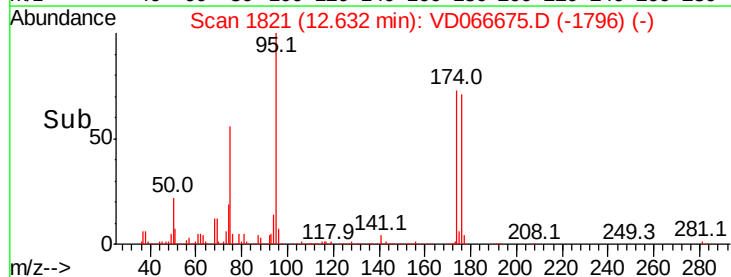
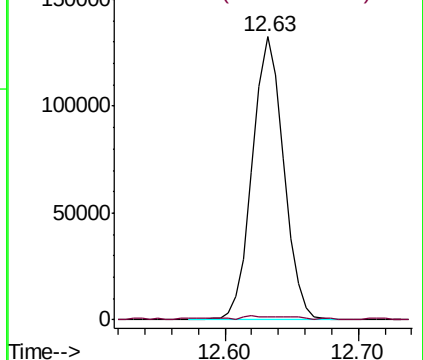
75 100

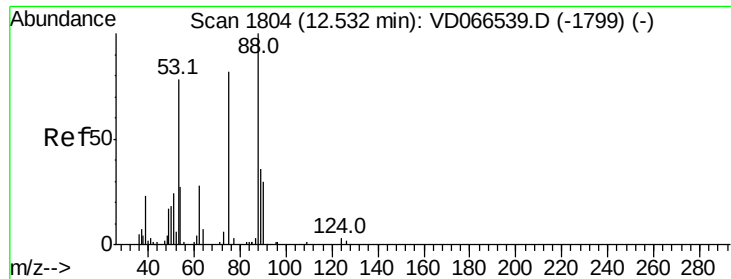
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 139.184 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066675.D

Acq: 14 Sep 2020 16:05

Instrument :

MSVOA_D

ClientSampleId :

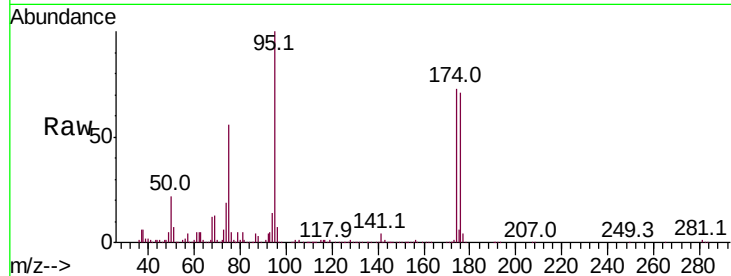
Tot Ion: 75 Resp: 214944

Ion Ratio Lower Upper

75 100

53 0.6 87.0 130.4#

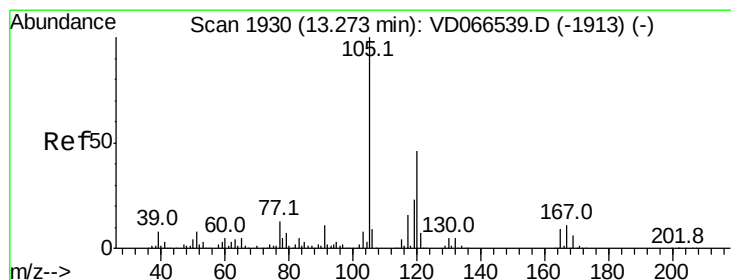
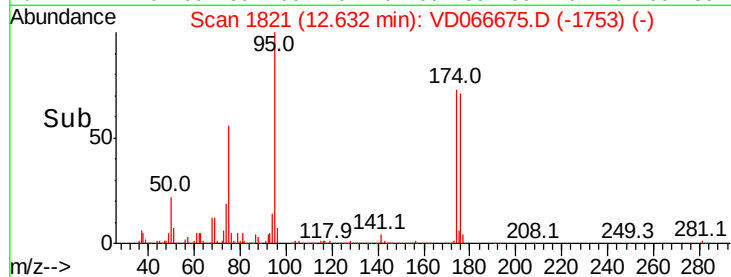
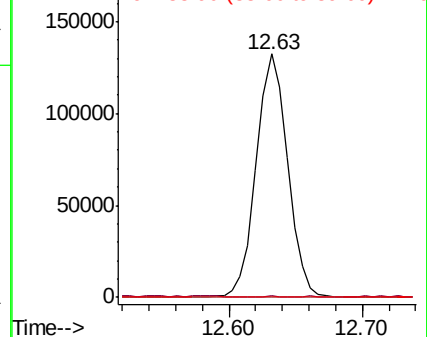
89 0.2 37.1 55.7#



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: 2.013 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. -0.00 min

Lab File: VD066675.D

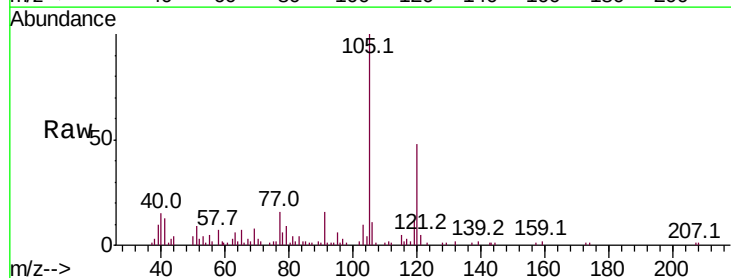
Acq: 14 Sep 2020 16:05

Tgt Ion: 105 Resp: 46810

Ion Ratio Lower Upper

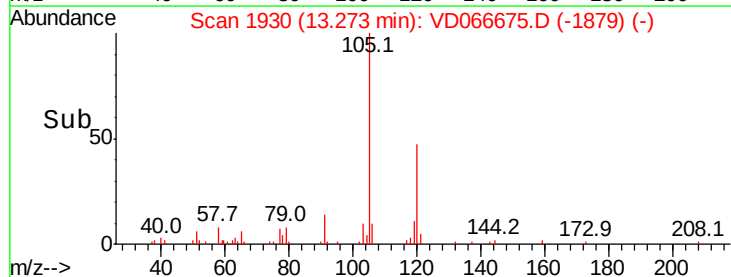
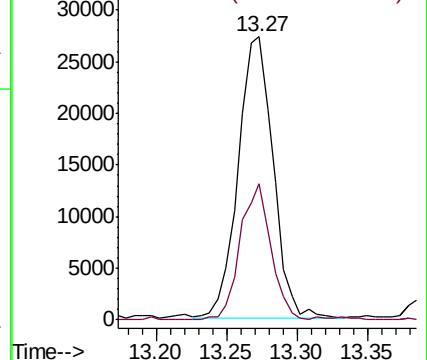
105 100

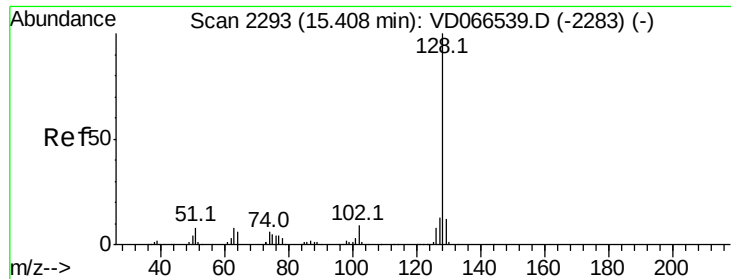
120 42.8 22.6 67.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95

Naphthalene

Concen: 2.029 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. -0.00 min

Lab File: VD066675.D

Acq: 14 Sep 2020 16:05

Instrument :

MSVOA_D

ClientSampleId :

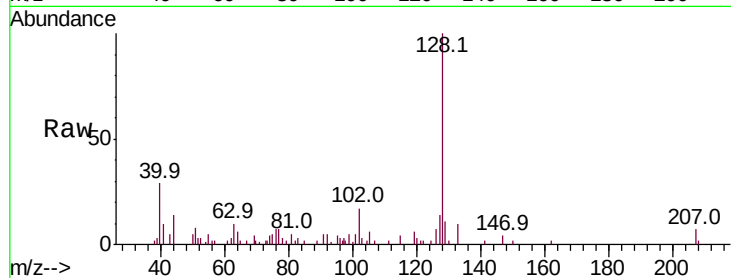
Tot Ion:128 Resp: 22846

Ion Ratio Lower Upper

128 100

127 17.1 10.7 16.1#

129 13.8 9.1 13.7#



Abundance Ion 128.00 (127.70 to 128.70): V

15000 Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

