

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061819\
 Data File : VD062765.D
 Acq On : 19 Jun 2019 00:08
 Operator : VA/AP
 Sample : VD0618SBL02
 Misc : 5.00µl/5ml/MSVOA D/SOIL
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 19 05:28:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 00:02:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	588782	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	778265	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	656199	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	398408	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	508863	59.89	ug/l	0.00
Spiked Amount			Recovery	=	119.78%	
35) Dibromofluoromethane	6.93	113	515528	62.81	ug/l	0.00
Spiked Amount			Recovery	=	125.62%	
50) Toluene-d8	10.41	98	1030400	59.68	ug/l	0.00
Spiked Amount			Recovery	=	119.36%	
62) 4-Bromofluorobenzene	13.55	95	502000	62.32	ug/l	0.00
Spiked Amount			Recovery	=	124.64%	

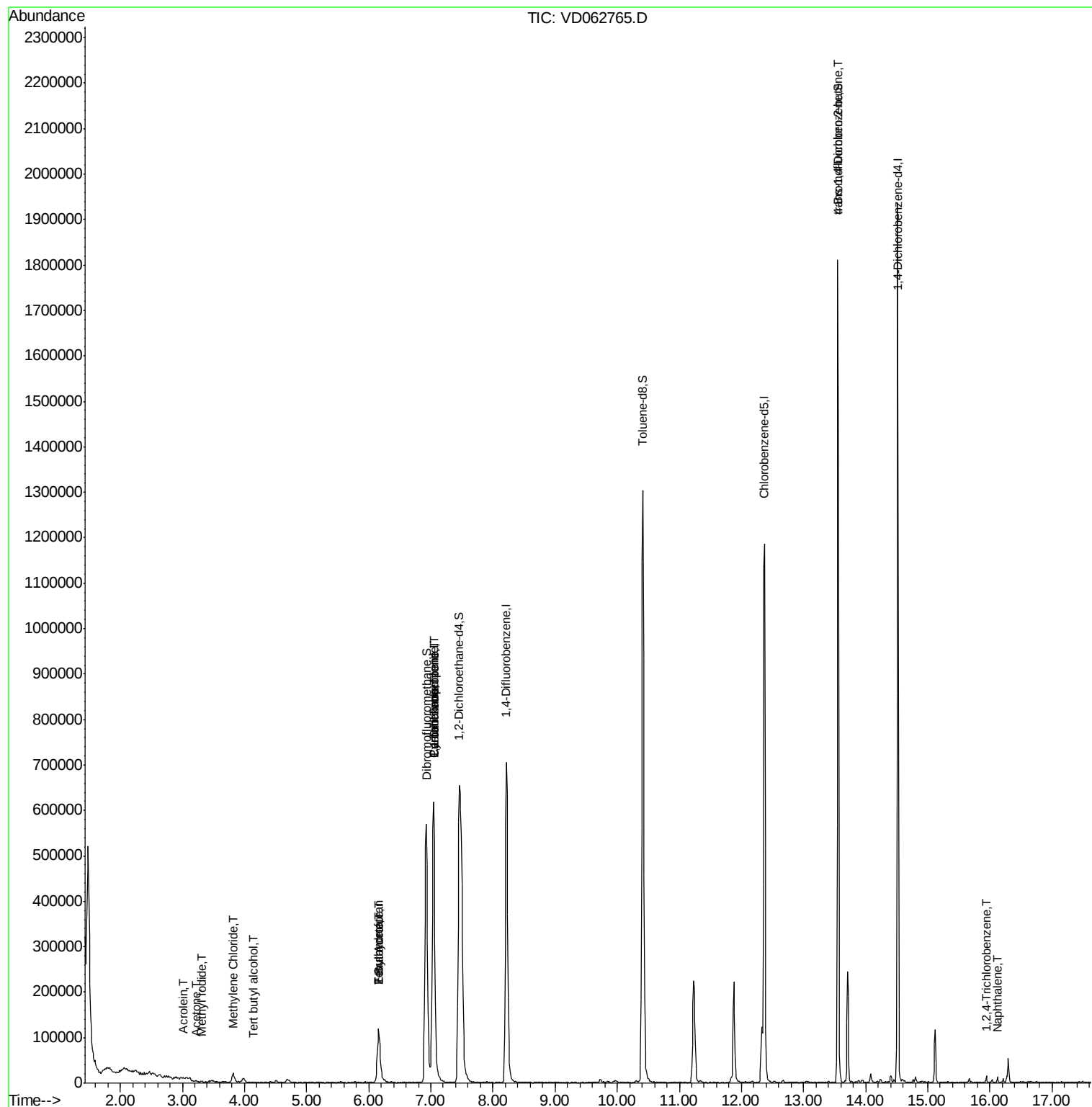
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	2159	Below Cal		80
10) Methyl Iodide	3.31	142	2425	4.221	ug/l #	26
11) Tert butyl alcohol	4.15	59	382	1.094	ug/l #	61
13) Acrolein	3.03	56	216	1.923	ug/l #	42
16) Acetone	3.23	43	5842	3.755	ug/l	94
20) Methylene Chloride	3.82	84	12394	1.682	ug/l	87
25) 2-Butanone	6.16	43	8360	5.508	ug/l #	71
29) Tetrahydrofuran	6.16	42	3131	4.581	ug/l #	45
31) Cyclohexane	7.04	56	16570	2.471	ug/l #	28
36) 1,1-Dichloropropene	7.05	75	45329	5.089	ug/l #	56
37) Ethyl Acetate	6.16	43	8360	3.349	ug/l #	4
38) Carbon Tetrachloride	7.05	117	62735	4.456	ug/l #	16
81) trans-1,4-Dichloro-2-buten	13.55	75	243531	144.070	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.94	180	3186	3.857	ug/l	83
95) Naphthalene	16.12	128	7595	3.939	ug/l #	94

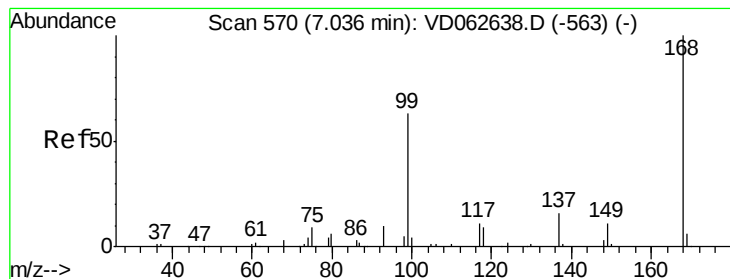
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Jun 08 00:02:21 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.01 min

Lab File: VD062765.D

Acq: 19 Jun 2019 00:08

Instrument :

MSVOA_D

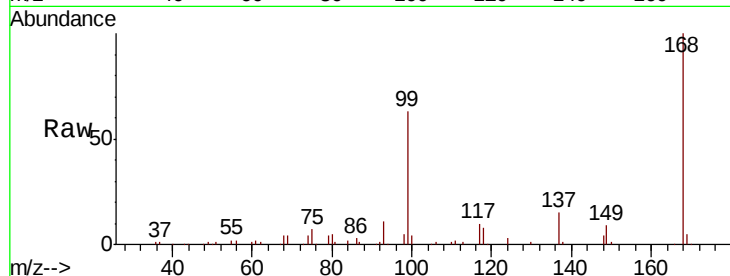
ClientSampleId :

Tot Ion:168 Resp: 588782

Ion Ratio Lower Upper

168 100

99 63.2 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

250000

200000

150000

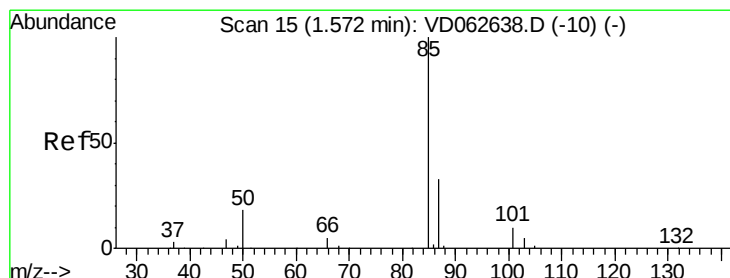
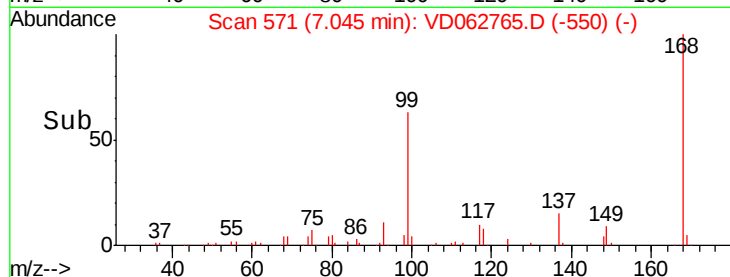
100000

50000

0

Time-->

6.90 7.00 7.10 7.20



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.57 min Scan# 15

Delta R.T. 0.00 min

Lab File: VD062765.D

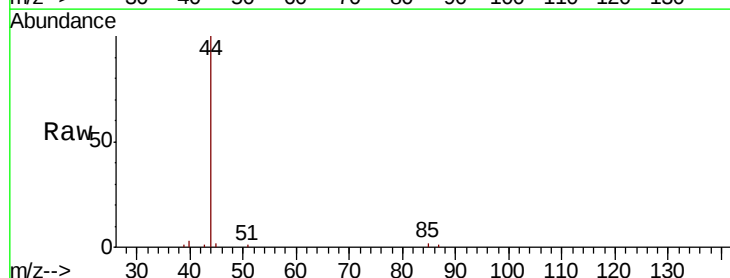
Acq: 19 Jun 2019 00:08

Tgt Ion: 85 Resp: 2159

Ion Ratio Lower Upper

85 100

87 44.4 16.6 49.7



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1500

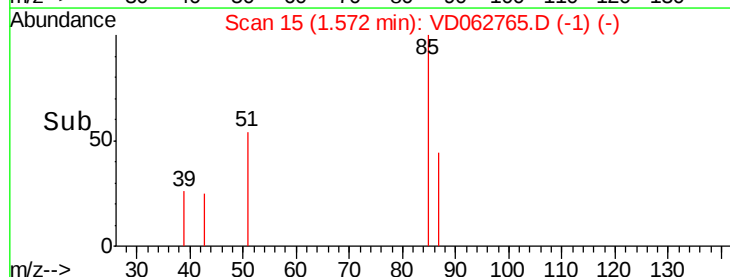
1000

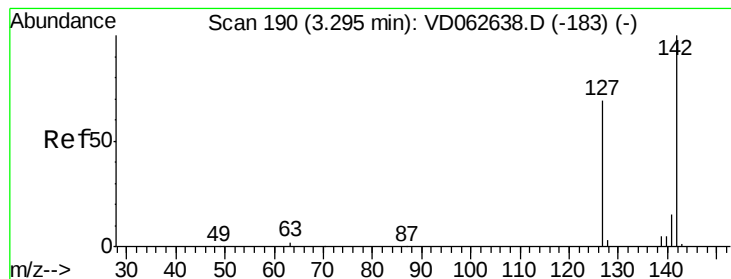
500

0

Time-->

1.50 1.55 1.60 1.65





#10

Methvl Iodide

Concen: 4.221 ug/l

RT: 3.31 min Scan# 192

Delta R.T. 0.02 min

Lab File: VD062765.D

Acq: 19 Jun 2019 00:08

Instrument :

MSVOA_D

ClientSampleId :

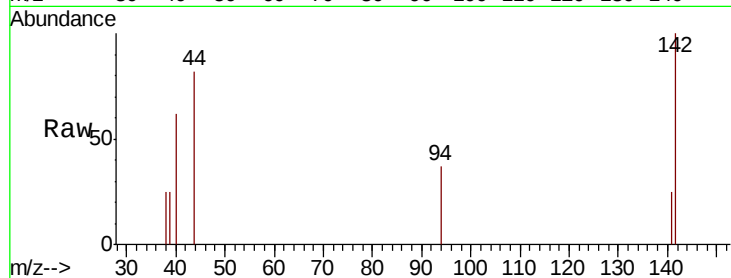
Tot Ion:142 Resp: 2425

Ion Ratio Lower Upper

142 100

127 0.0 55.2 82.8#

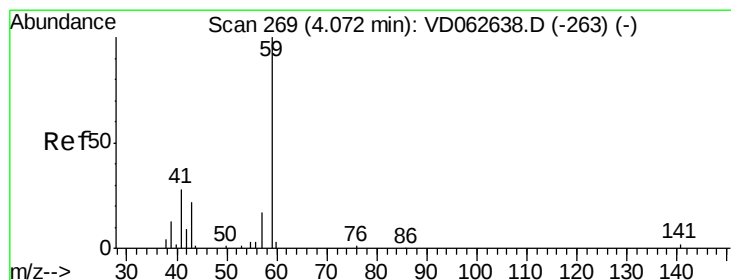
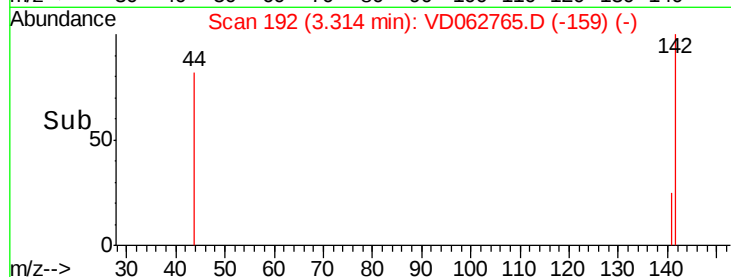
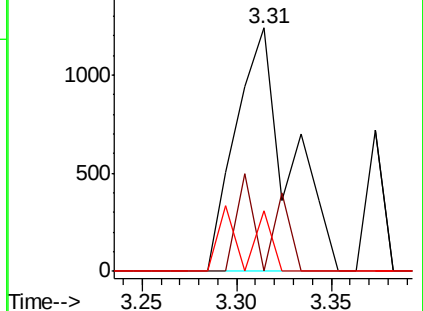
141 25.0 12.1 18.1#



Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



#11

Tert butyl alcohol

Concen: 1.094 ug/l

RT: 4.15 min Scan# 277

Delta R.T. 0.08 min

Lab File: VD062765.D

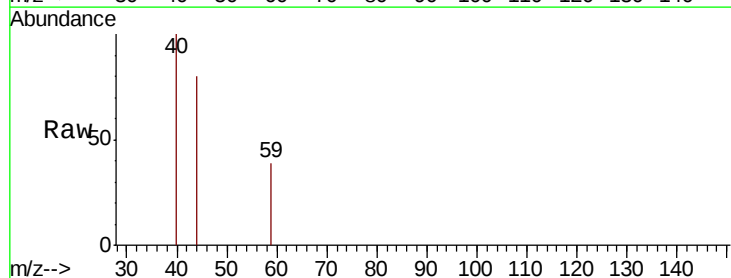
Acq: 19 Jun 2019 00:08

Tgt Ion: 59 Resp: 382

Ion Ratio Lower Upper

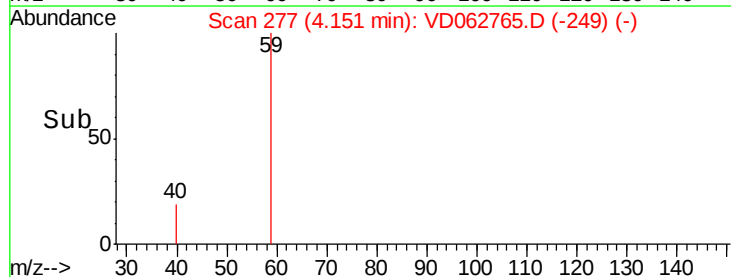
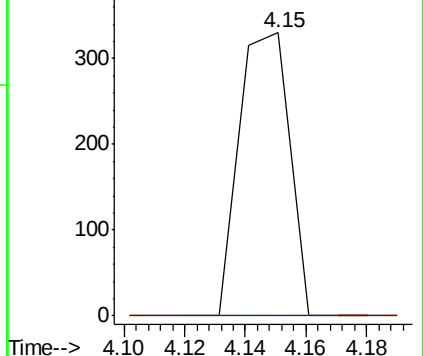
59 100

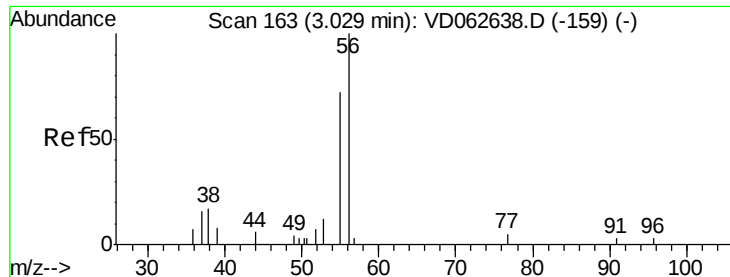
57 0.0 13.7 20.5#



Abundance Ion 58.95 (58.65 to 59.65): V

Ion 56.95 (56.65 to 57.65): V





#13

Acrolein

Concen: 1.923 ug/l

RT: 3.03 min Scan# 163

Delta R.T. -0.00 min

Lab File: VD062765.D

Acq: 19 Jun 2019 00:08

Instrument :

MSVOA_D

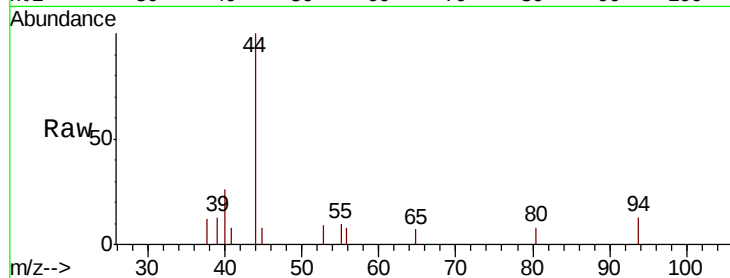
ClientSampleId :

Tot Ion: 56 Resp: 216

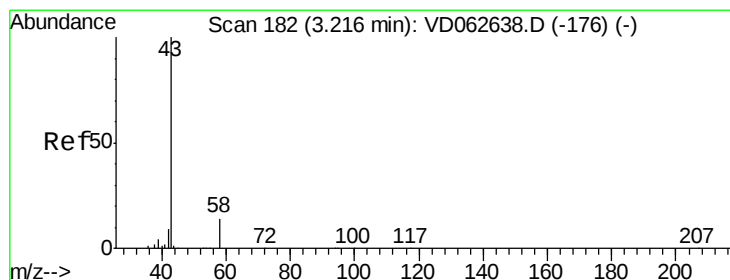
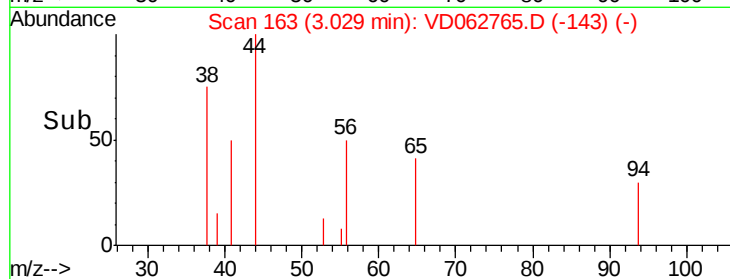
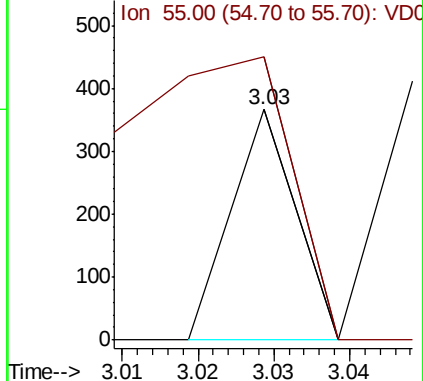
Ion Ratio Lower Upper

56 100

55 123.0 59.4 89.0#



Abundance Ion 55.95 (55.65 to 56.65): VDC



#16

Acetone

Concen: 3.755 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD062765.D

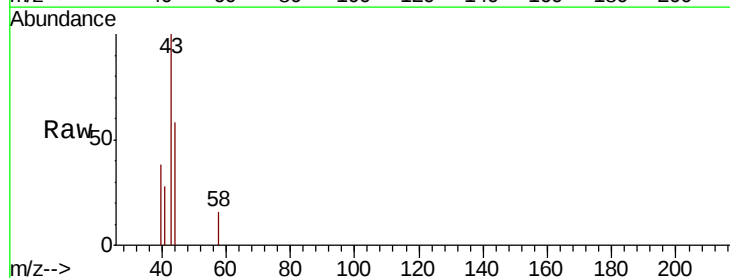
Acq: 19 Jun 2019 00:08

Tgt Ion: 43 Resp: 5842

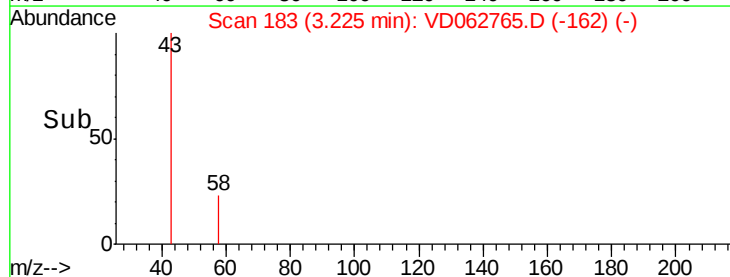
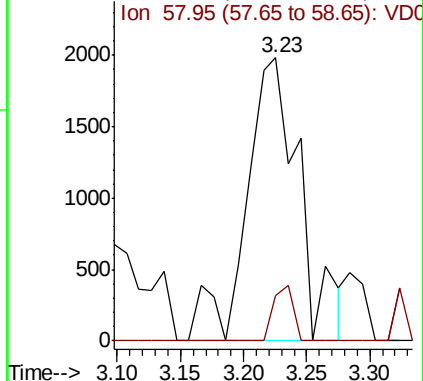
Ion Ratio Lower Upper

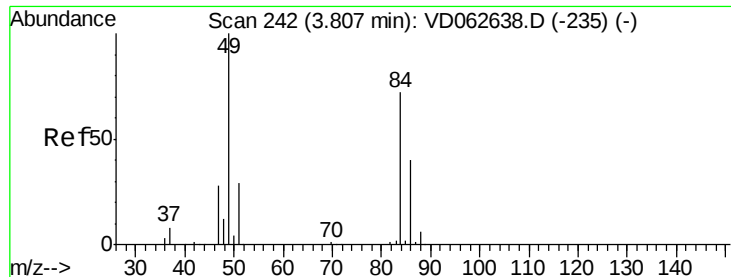
43 100

58 16.0 10.8 16.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

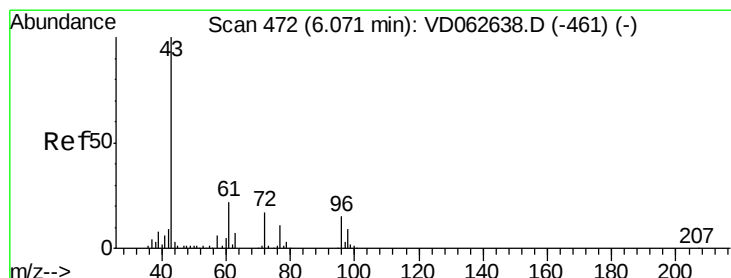
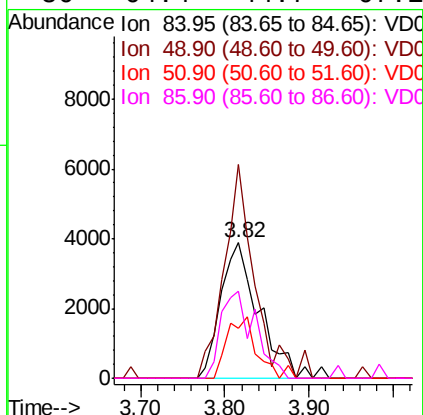
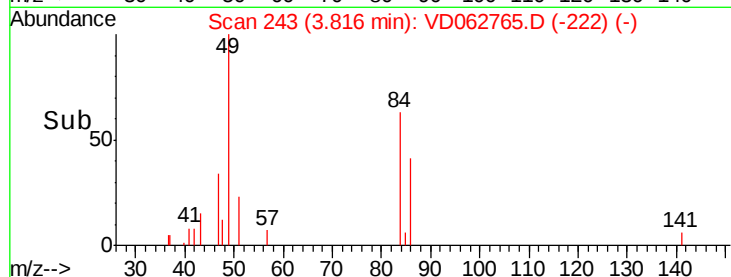
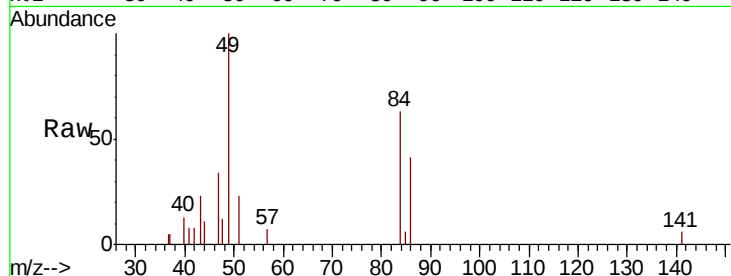




#20
Methvlene Chloride
Concen: 1.682 ug/l
RT: 3.82 min Scan# 243
Delta R.T. 0.01 min
Lab File: VD062765.D
Acq: 19 Jun 2019 00:08

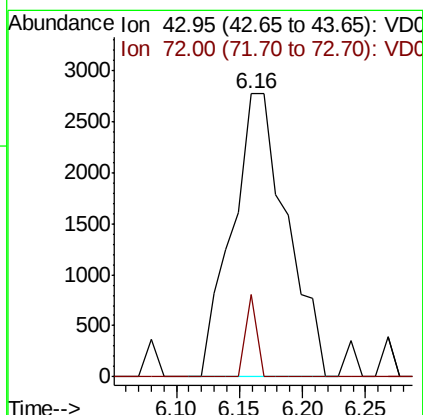
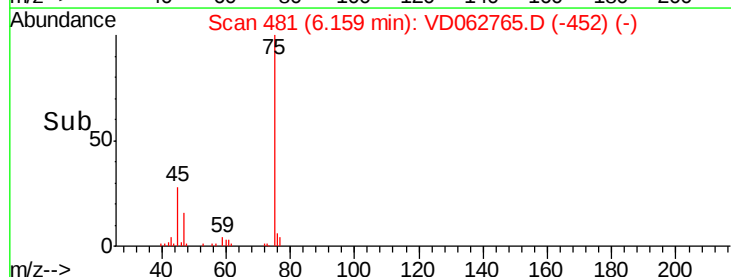
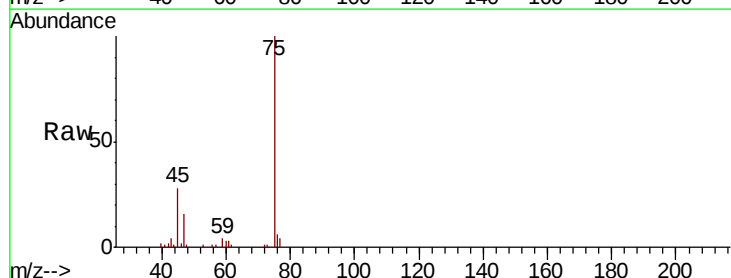
Instrument :
MSVOA_D
ClientSampleId :

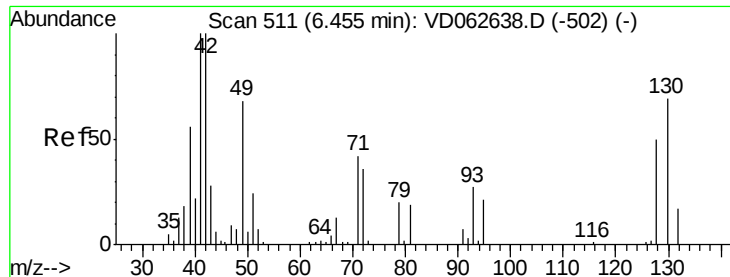
Tot Ion: 84 Resp: 12394
Ion Ratio Lower Upper
84 100
49 158.0 111.2 166.8
51 36.6 31.9 47.9
86 64.4 44.7 67.1



#25
2-Butanone
Concen: 5.508 ug/l
RT: 6.16 min Scan# 481
Delta R.T. 0.09 min
Lab File: VD062765.D
Acq: 19 Jun 2019 00:08

Tgt Ion: 43 Resp: 8360
Ion Ratio Lower Upper
43 100
72 29.3 13.5 20.3#

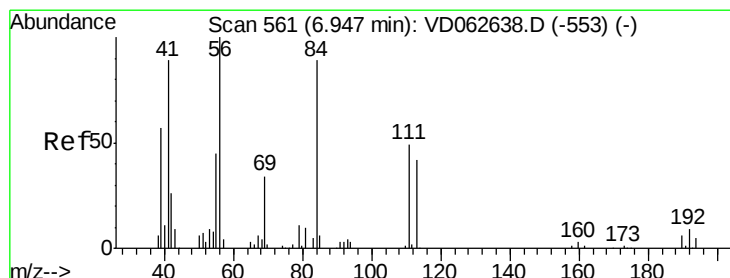
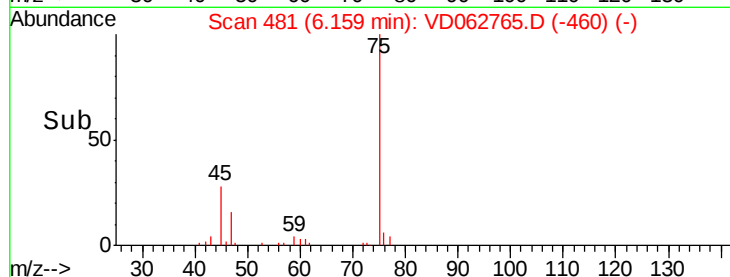
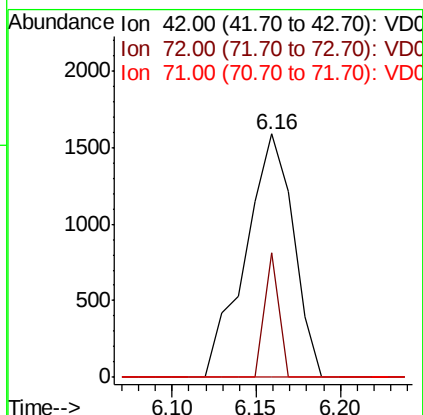
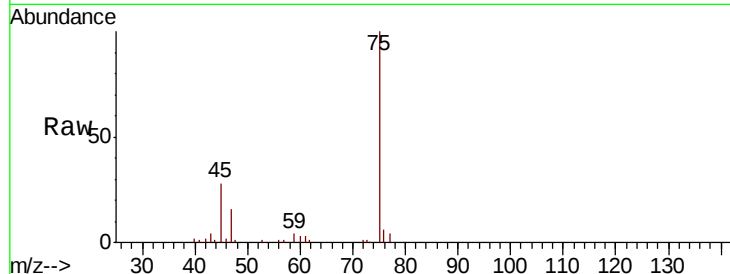




#29
Tetrahydrofuran
Concen: 4.581 ug/l
RT: 6.16 min Scan# 481
Delta R.T. -0.30 min
Lab File: VD062765.D
Acq: 19 Jun 2019 00:08

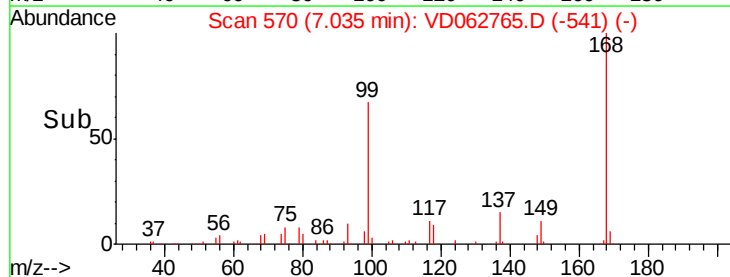
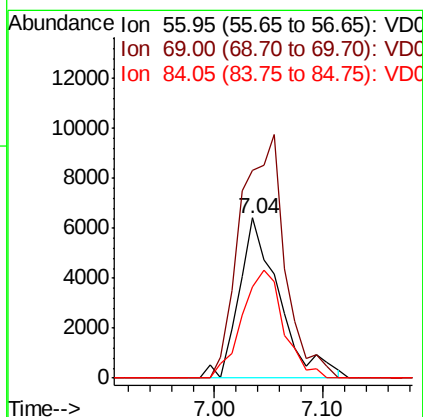
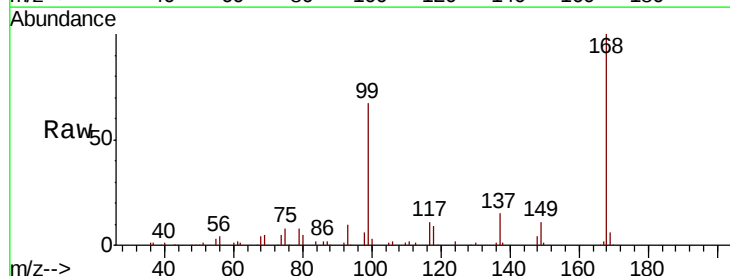
Instrument :
MSVOA_D
ClientSampleId :

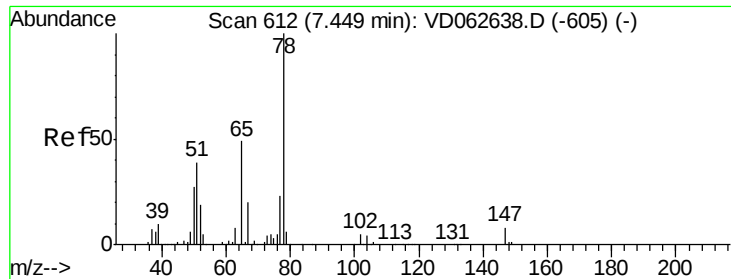
Tot Ion: 42 Resp: 3131
Ion Ratio Lower Upper
42 100
72 15.3 33.8 50.6#
71 0.0 34.2 51.4#



#31
Cyclohexane
Concen: 2.471 ug/l
RT: 7.04 min Scan# 570
Delta R.T. 0.09 min
Lab File: VD062765.D
Acq: 19 Jun 2019 00:08

Tgt Ion: 56 Resp: 16570
Ion Ratio Lower Upper
56 100
69 129.8 26.8 40.2#
84 56.7 73.9 110.9#





#33

1,2-Dichloroethane-d4

Concen: 59.894 ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.00 min

Lab File: VD062765.D

Acq: 19 Jun 2019 00:08

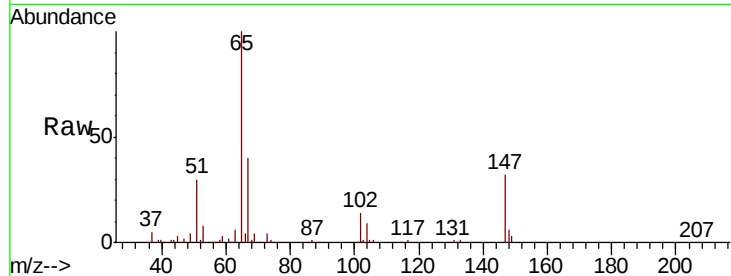
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 65 Resp: 508863

Ion Ratio Lower Upper

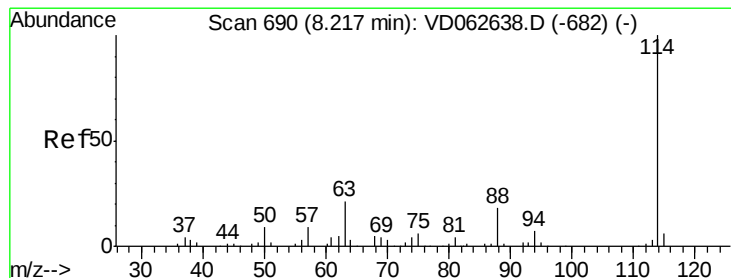
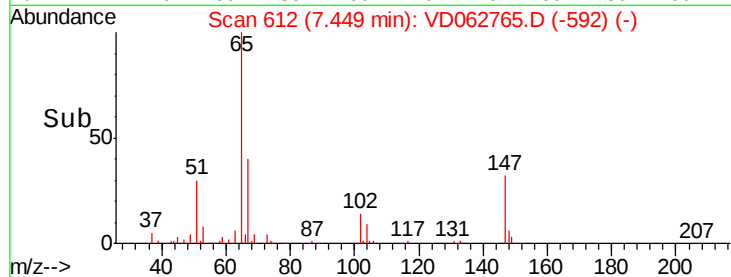
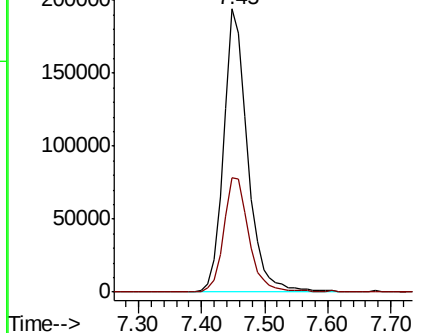
65 100

67 40.3 0.0 81.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 690

Delta R.T. -0.00 min

Lab File: VD062765.D

Acq: 19 Jun 2019 00:08

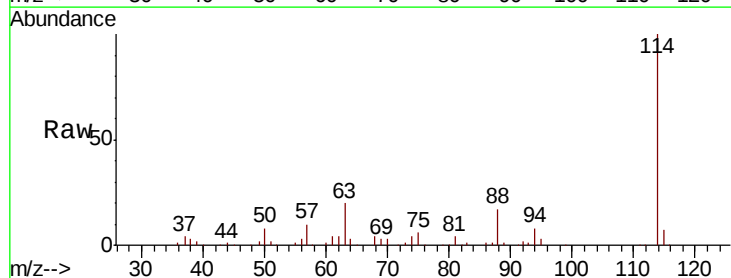
Tgt Ion: 114 Resp: 778265

Ion Ratio Lower Upper

114 100

63 19.5 0.0 42.4

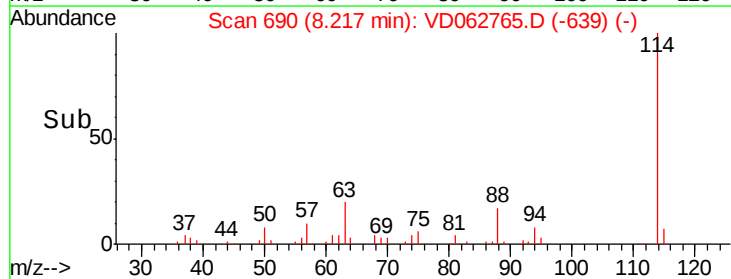
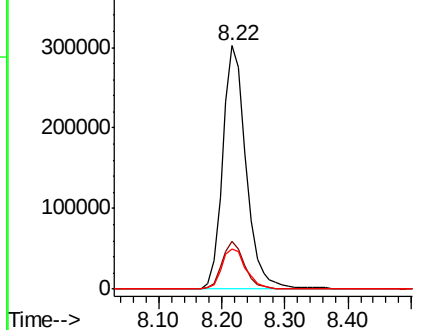
88 16.7 0.0 36.8

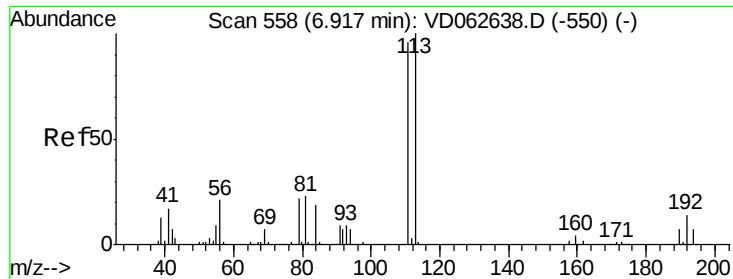


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

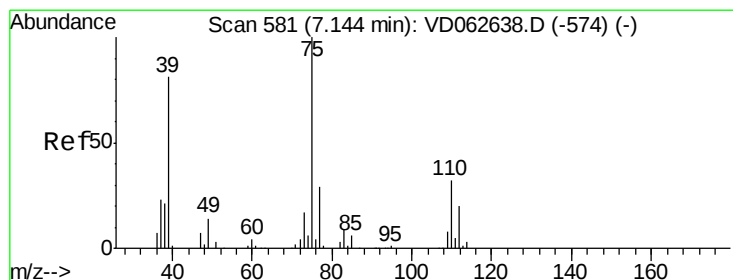
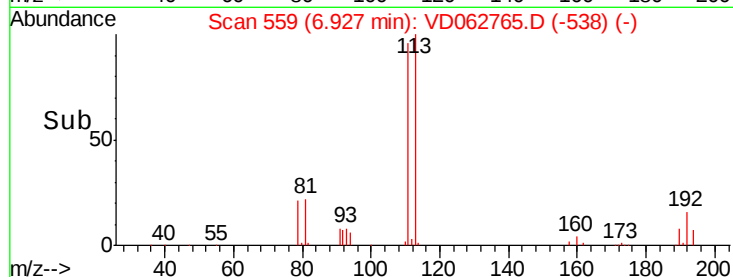
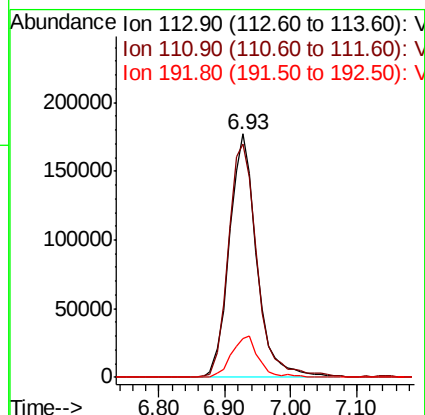
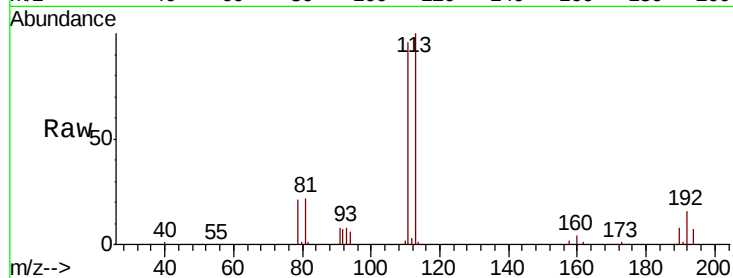




#35
 Dibromofluoromethane
 Concen: 62.809 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. 0.01 min
 Lab File: VD062765.D
 Acq: 19 Jun 2019 00:08

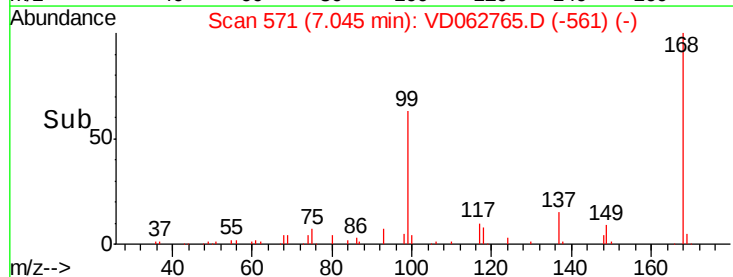
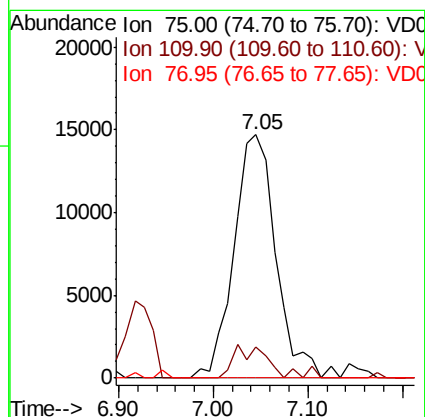
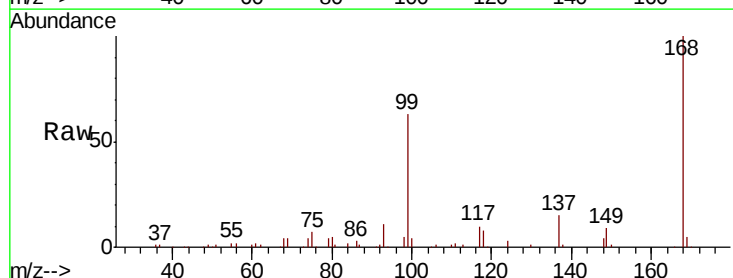
Instrument :
 MSVOA_D
 ClientSampleId :

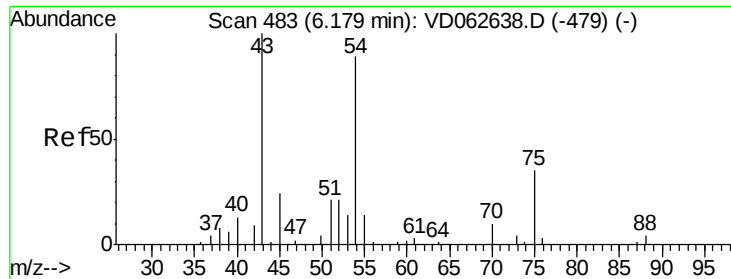
Tot Ion:113 Resp: 515528
 Ion Ratio Lower Upper
 113 100
 111 95.8 76.4 114.6
 192 15.8 11.4 17.0



#36
 1,1-Dichloropropene
 Concen: 5.089 ug/l
 RT: 7.05 min Scan# 571
 Delta R.T. -0.10 min
 Lab File: VD062765.D
 Acq: 19 Jun 2019 00:08

Tgt Ion: 75 Resp: 45329
 Ion Ratio Lower Upper
 75 100
 110 12.9 15.9 47.7#
 77 0.0 23.3 34.9#

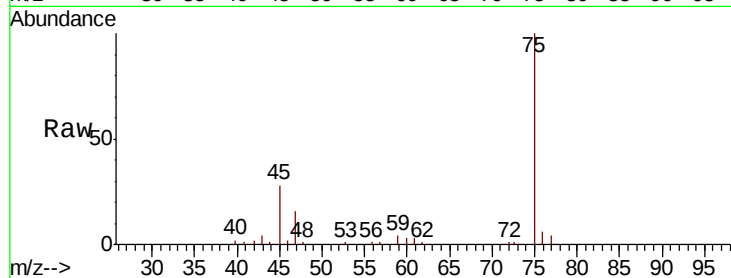




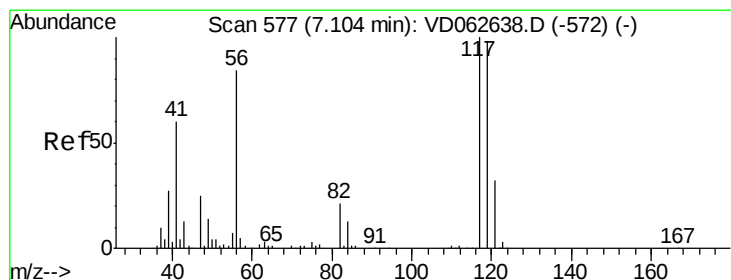
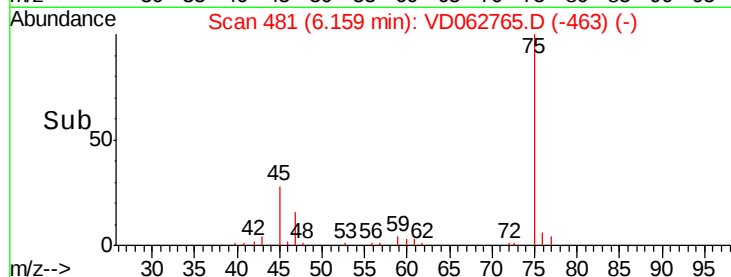
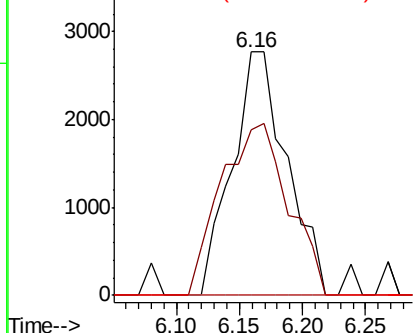
#37
Ethyl Acetate
Concen: 3.349 ug/l
RT: 6.16 min Scan# 481
Delta R.T. -0.02 min
Lab File: VD062765.D
Acq: 19 Jun 2019 00:08

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 8360
Ion Ratio Lower Upper
43 100
61 67.8 8.7 13.1#
70 0.0 6.5 9.7#

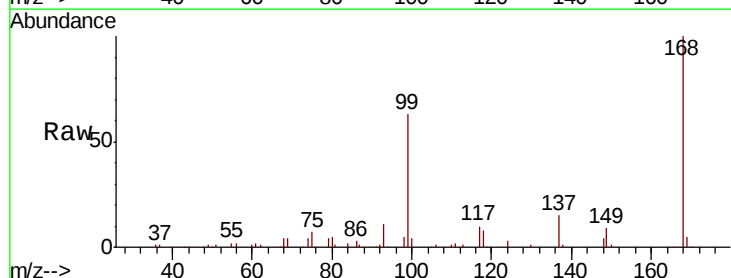


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

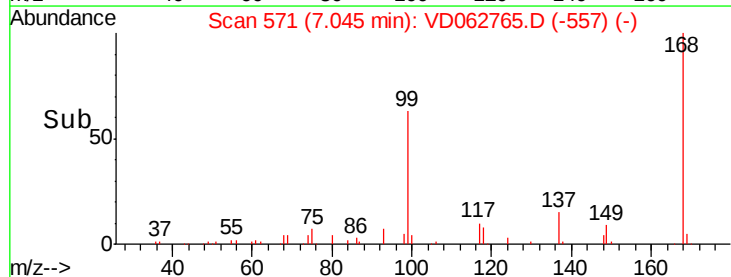
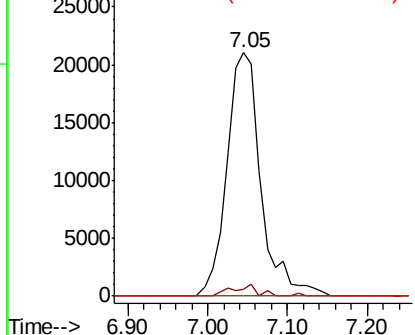


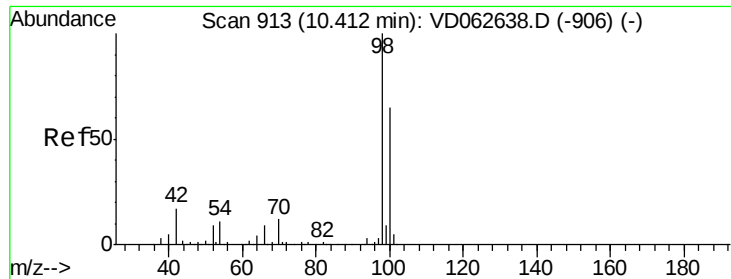
#38
Carbon Tetrachloride
Concen: 4.456 ug/l
RT: 7.05 min Scan# 571
Delta R.T. -0.06 min
Lab File: VD062765.D
Acq: 19 Jun 2019 00:08

Tgt Ion: 117 Resp: 62735
Ion Ratio Lower Upper
117 100
119 2.8 73.5 110.3#
121 0.0 24.2 36.4#



Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V





#50

Toluene-d8

Concen: 59.677 ug/l

RT: 10.41 min Scan# 913

Delta R.T. -0.00 min

Lab File: VD062765.D

Acq: 19 Jun 2019 00:08

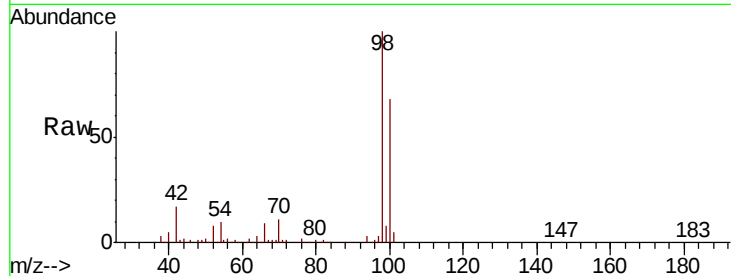
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 98 Resp: 1030400

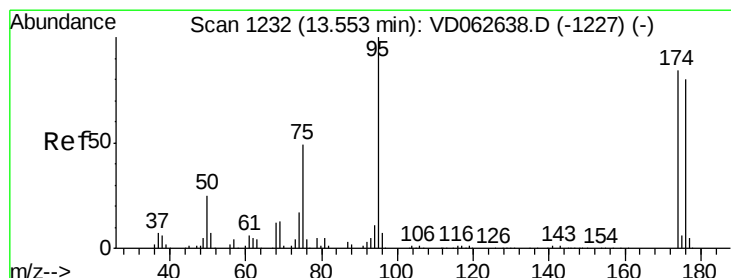
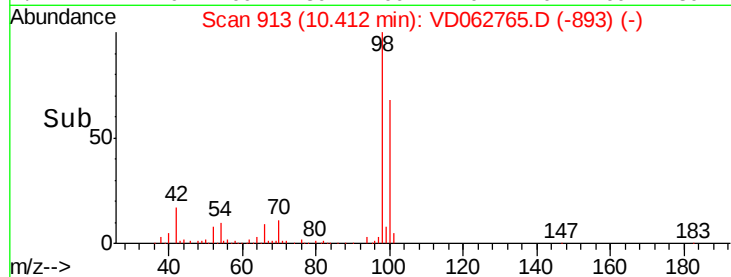
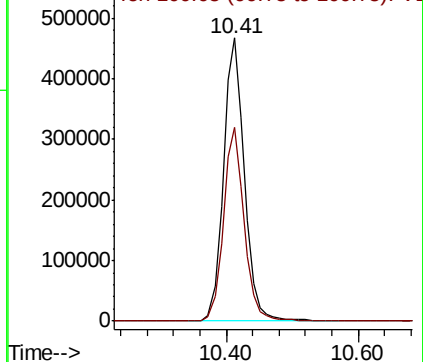
Ion Ratio Lower Upper

98 100

100 68.4 52.1 78.1



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC



#62

4-Bromofluorobenzene

Concen: 62.319 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD062765.D

Acq: 19 Jun 2019 00:08

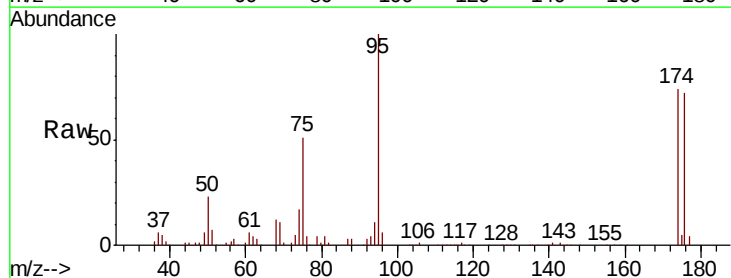
Tgt Ion: 95 Resp: 502000

Ion Ratio Lower Upper

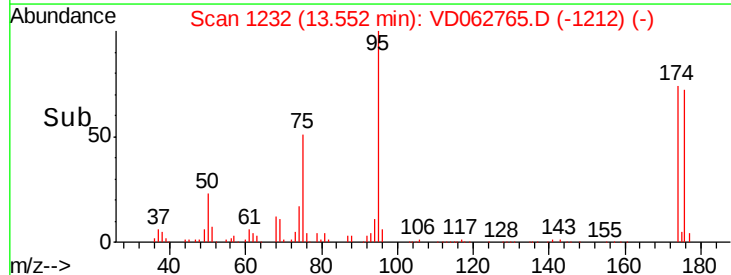
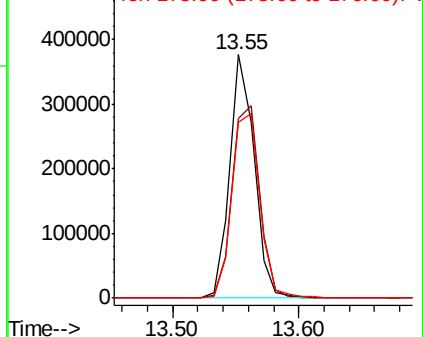
95 100

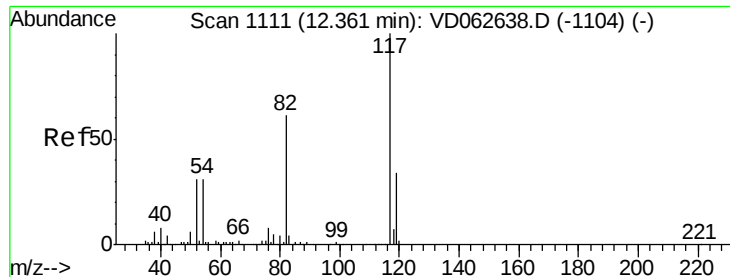
174 73.7 0.0 167.0

176 72.0 0.0 159.2



Abundance Ion 95.00 (94.70 to 95.70): VDC
Ion 173.90 (173.60 to 174.60): VDC
Ion 175.90 (175.60 to 176.60): VDC

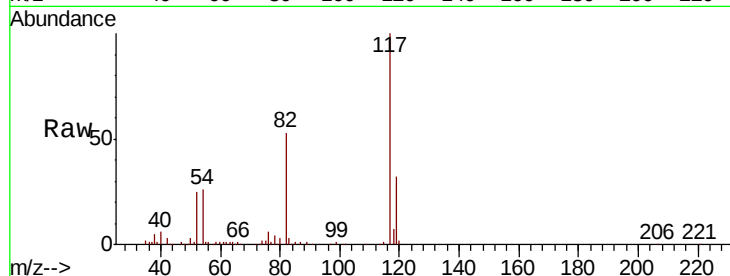




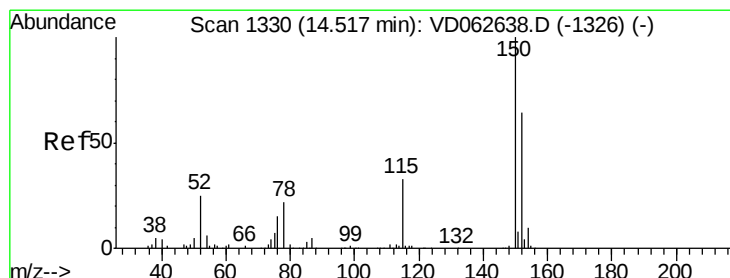
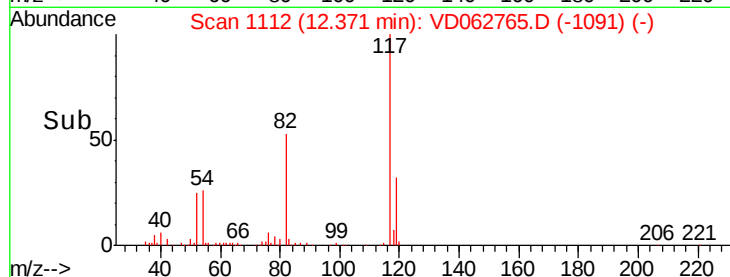
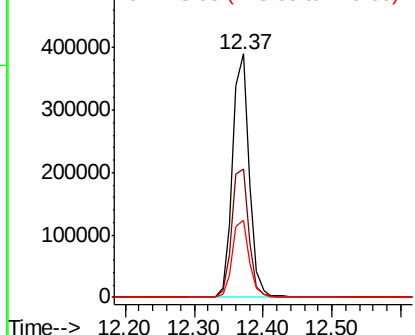
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD062765.D
Acq: 19 Jun 2019 00:08

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:117 Resp: 656199
Ion Ratio Lower Upper
117 100
82 52.6 48.7 73.1
119 31.5 27.0 40.6

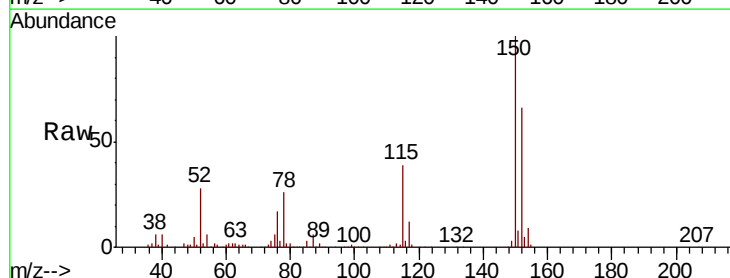


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

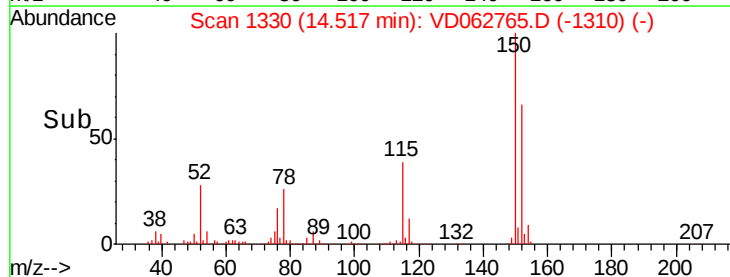
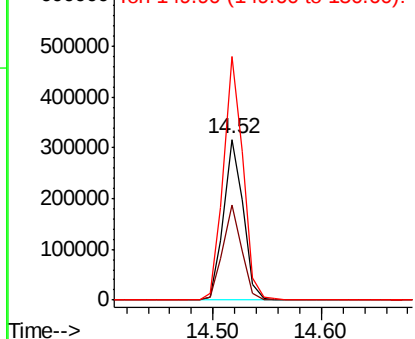


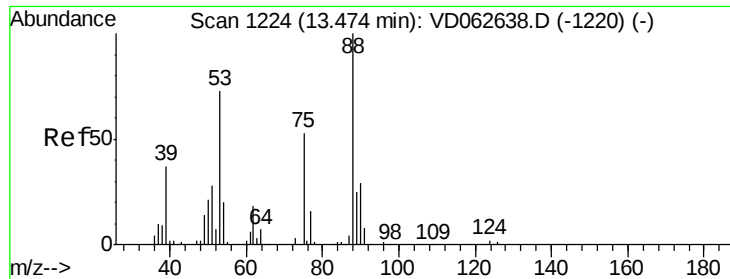
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VD062765.D
Acq: 19 Jun 2019 00:08

Tgt Ion:152 Resp: 398408
Ion Ratio Lower Upper
152 100
115 59.4 30.1 90.5
150 151.3 0.0 314.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 144.070 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD062765.D

Acq: 19 Jun 2019 00:08

Instrument :

MSVOA_D

ClientSampleId :

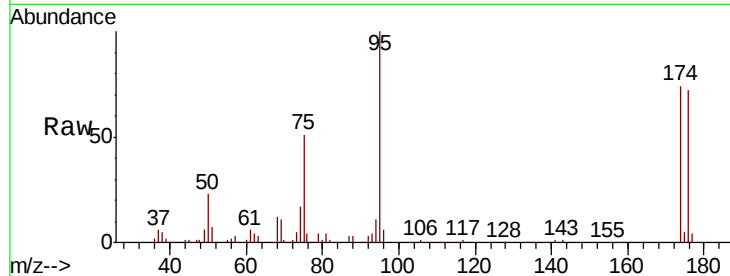
Tot Ion: 75 Resp: 243531

Ion Ratio Lower Upper

75 100

53 0.0 109.4 164.2#

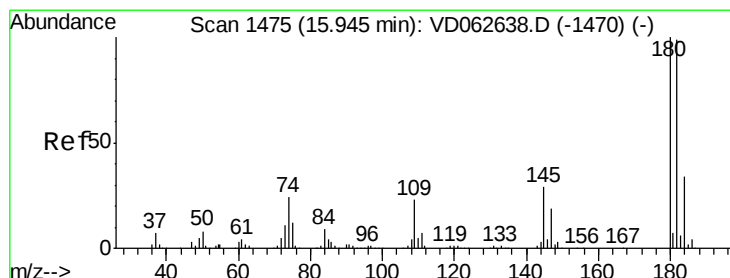
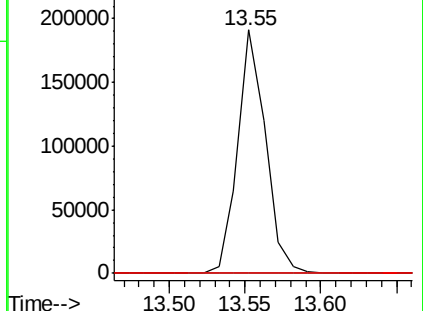
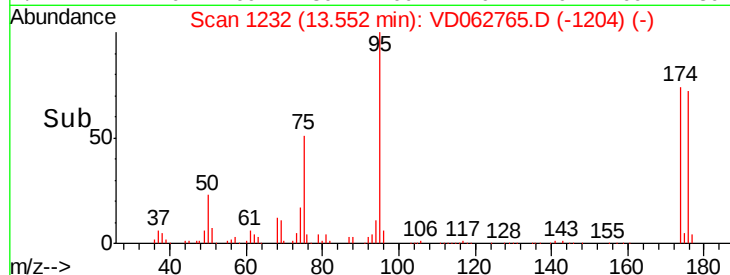
89 0.0 37.0 55.6#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



#93

1,2,4-Trichlorobenzene

Concen: 3.857 ug/l

RT: 15.94 min Scan# 1475

Delta R.T. 0.00 min

Lab File: VD062765.D

Acq: 19 Jun 2019 00:08

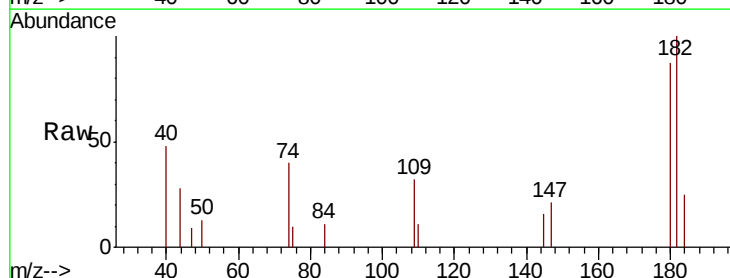
Tgt Ion:180 Resp: 3186

Ion Ratio Lower Upper

180 100

182 114.8 49.4 148.2

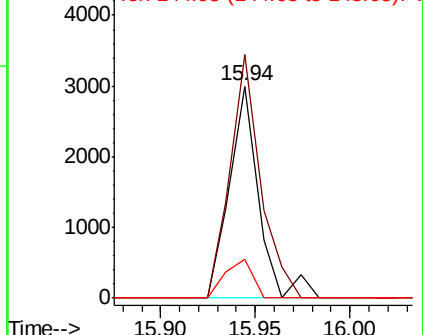
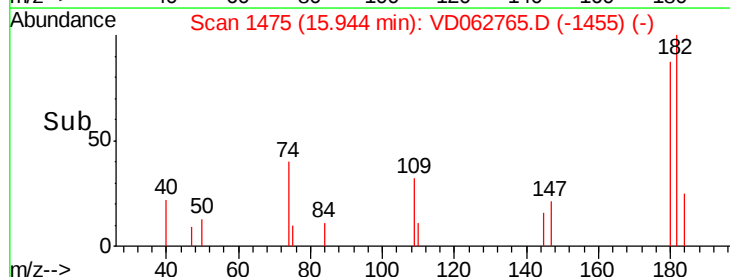
145 18.5 14.5 43.6

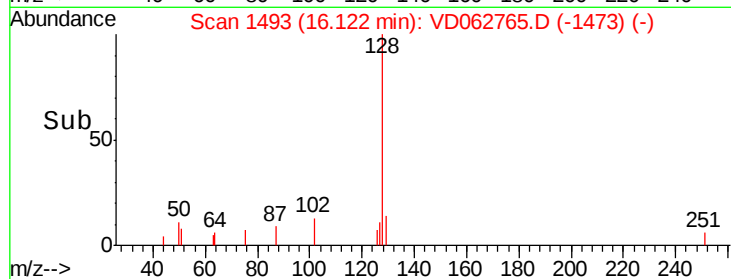
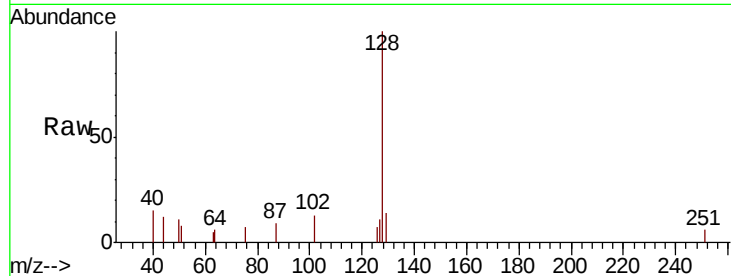
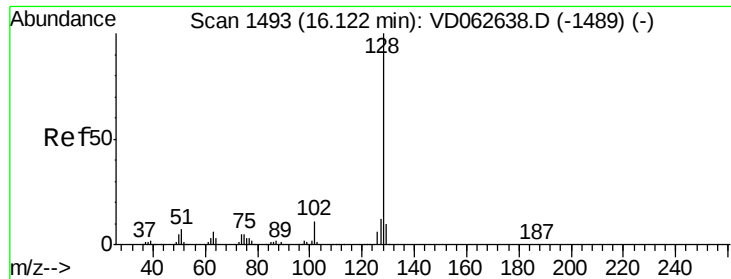


Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V





#95

Naphthalene

Concen: 3.939 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. 0.00 min

Lab File: VD062765.D

Acq: 19 Jun 2019 00:08

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion:128 Resp: 7595

Ion Ratio Lower Upper

128 100

127 11.3 9.7 14.5

129 13.8 8.1 12.1#

