

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061819\
 Data File : VD062748.D
 Acq On : 18 Jun 2019 14:37
 Operator : VA/AP
 Sample : K3409-02RE
 Misc : 5.09g/5ml/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 19 05:25:06 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	262808	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.22	114	370026	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	313013	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	117548	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	217179	57.27	ug/l	0.01
Spiked Amount			Recovery	=	114.54%	
35) Dibromofluoromethane	6.93	113	178570	45.76	ug/l	0.01
Spiked Amount			Recovery	=	91.52%	
50) Toluene-d8	10.41	98	329243	40.11	ug/l	0.00
Spiked Amount			Recovery	=	80.22%	
62) 4-Bromofluorobenzene	13.55	95	128317	33.50	ug/l	0.00
Spiked Amount			Recovery	=	67.00%	

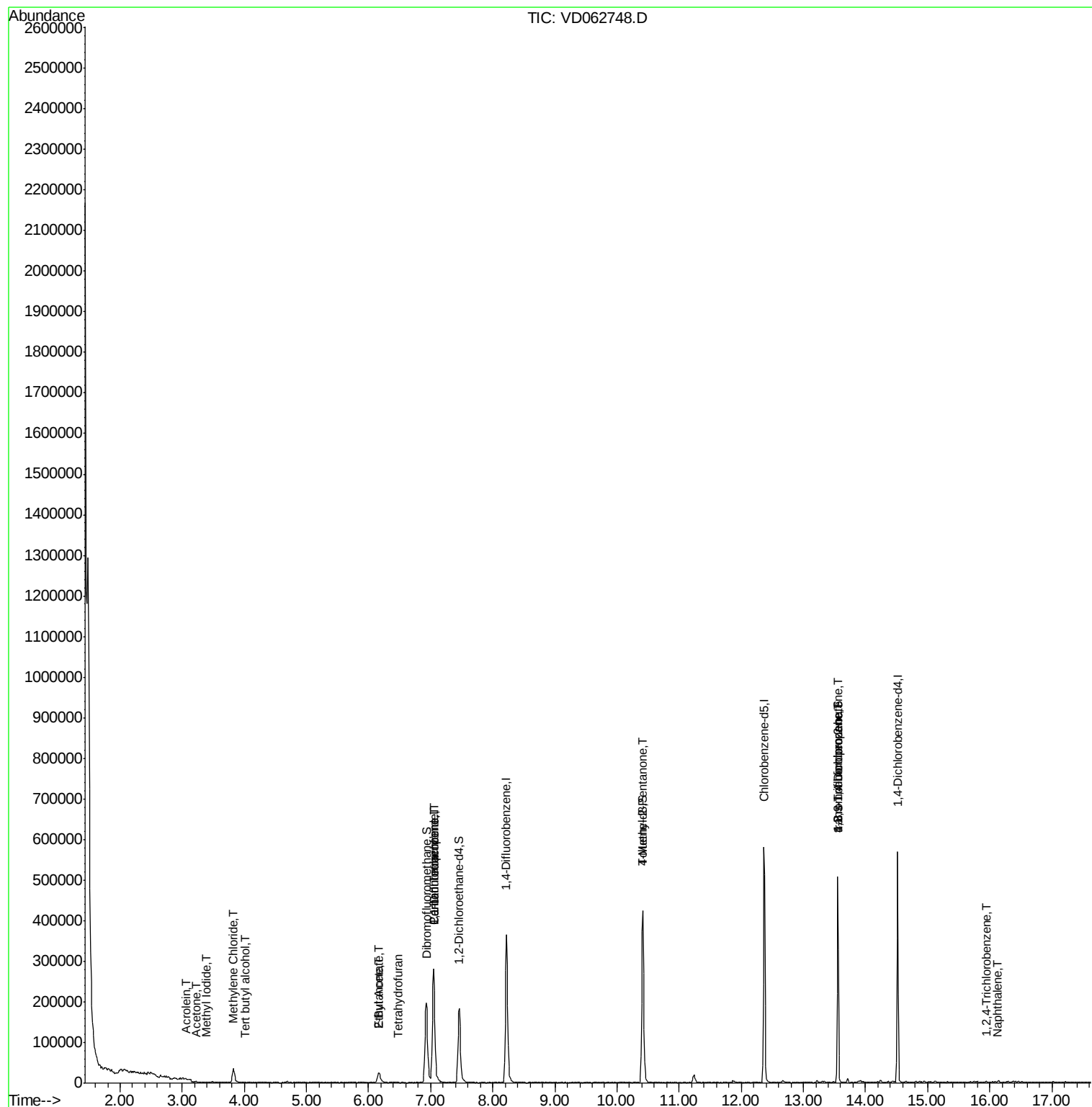
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.40	142	268	4.061	ug/l #	24
11) Tert butyl alcohol	4.01	59	223	1.431	ug/l #	61
13) Acrolein	3.06	56	250	4.986	ug/l #	70
16) Acetone	3.23	43	3022	4.352	ug/l #	66
20) Methylene Chloride	3.83	84	21360	7.768	ug/l	93
25) 2-Butanone	6.15	43	1604	2.368	ug/l #	61
29) Tetrahydrofuran	6.49	42	564	1.849	ug/l #	33
36) 1,1-Dichloropropene	7.05	75	20800	4.912	ug/l #	61
37) Ethyl Acetate	6.15	43	1604	2.068	ug/l #	56
38) Carbon Tetrachloride	7.05	117	26614	3.976	ug/l #	19
51) 4-Methyl-2-Pentanone	10.40	43	2589	1.656	ug/l #	1
76) 1,2,3-Trichloropropane	13.55	75	49442	31.021	ug/l #	45
81) trans-1,4-Dichloro-2-buten	13.55	75	65040	130.780	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.95	180	1304	3.968	ug/l #	66
95) Naphthalene	16.12	128	1852	3.854	ug/l #	71

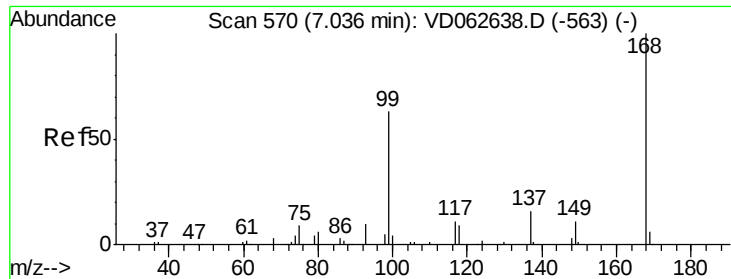
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jun 08 00:02:21 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.01 min

Lab File: VD062748.D

Acq: 18 Jun 2019 14:37

Instrument :

MSVOA_D

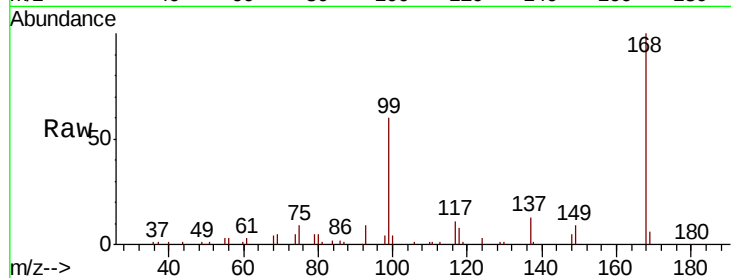
ClientSampled :

Tot Ion:168 Resp: 262808

Ion Ratio Lower Upper

168 100

99 60.2 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V

7.05

100000

80000

60000

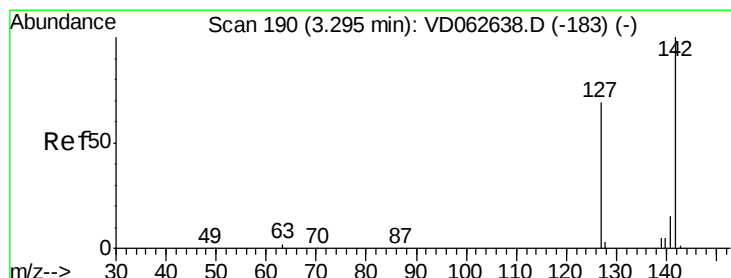
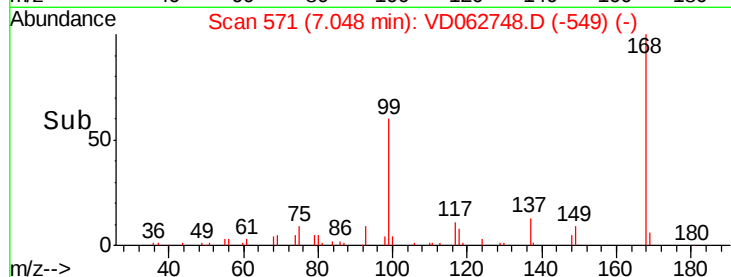
40000

20000

0

Time-->

6.90 7.00 7.10 7.20



#10

Methyl Iodide

Concen: 4.061 ug/l

RT: 3.40 min Scan# 200

Delta R.T. 0.10 min

Lab File: VD062748.D

Acq: 18 Jun 2019 14:37

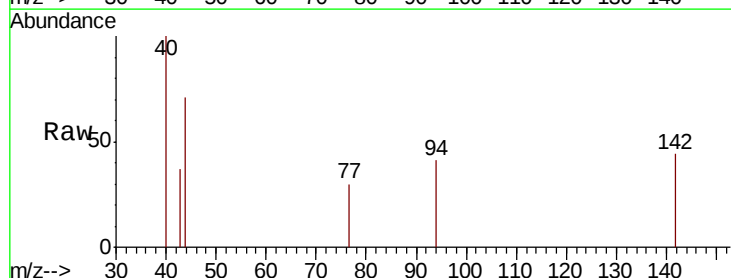
Tgt Ion:142 Resp: 268

Ion Ratio Lower Upper

142 100

127 0.0 55.2 82.8#

141 0.0 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

600

500

400

300

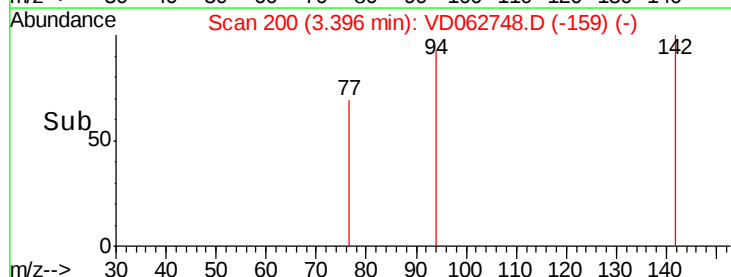
200

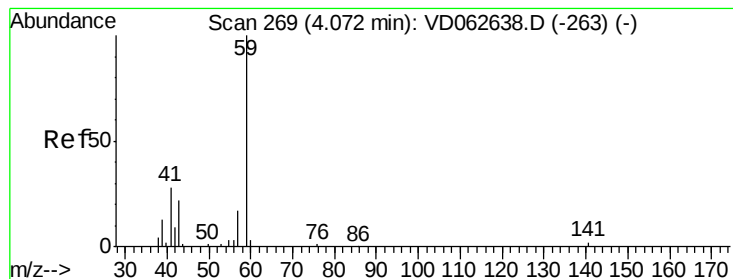
100

0

Time-->

3.38 3.40



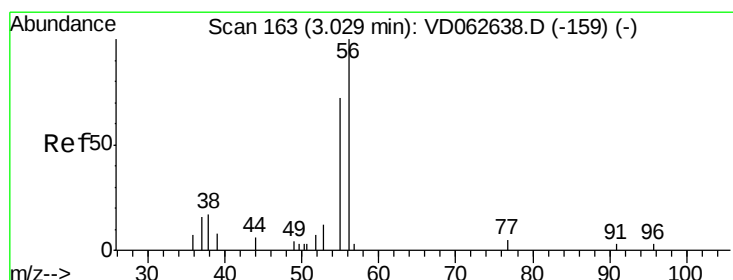
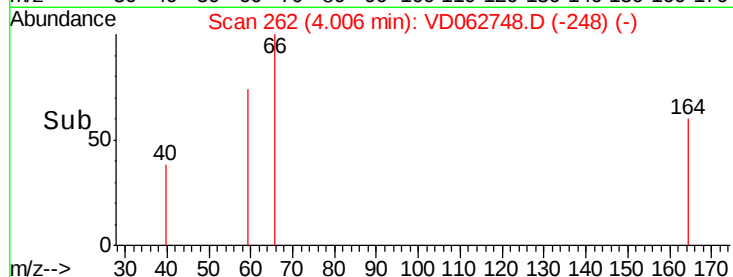
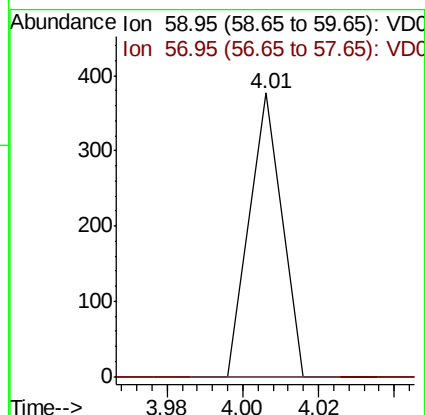
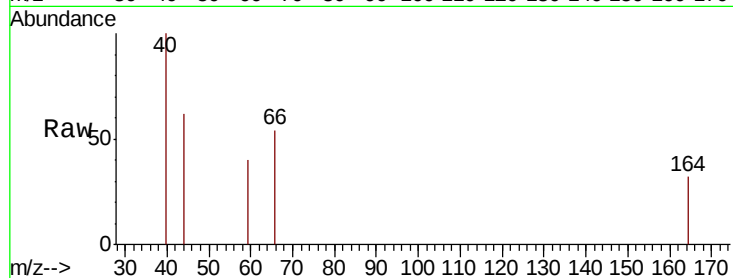


#11

Tert butyl alcohol
Concen: 1.431 ug/l
RT: 4.01 min Scan# 262
Delta R.T. -0.07 min
Lab File: VD062748.D
Acq: 18 Jun 2019 14:37

Instrument :
MSVOA_D
ClientSampleId :

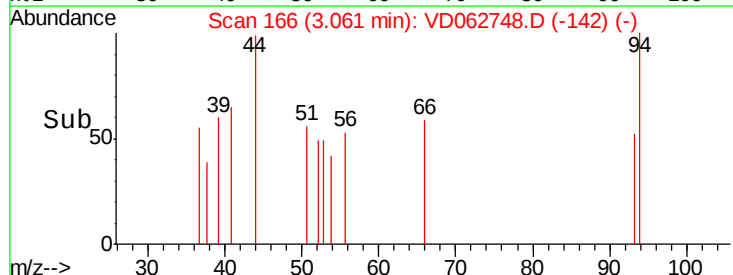
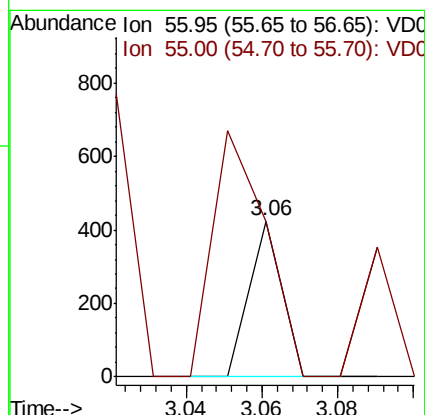
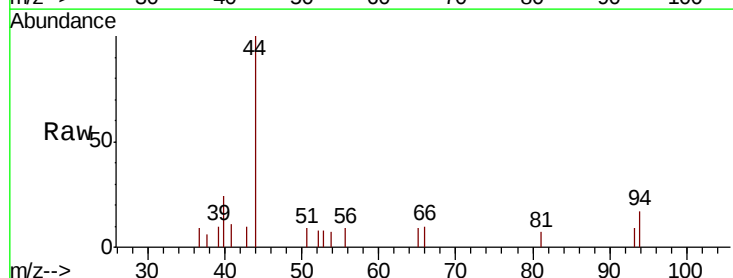
Tot Ion: 59 Resp: 223
Ion Ratio Lower Upper
59 100
57 0.0 13.7 20.5#

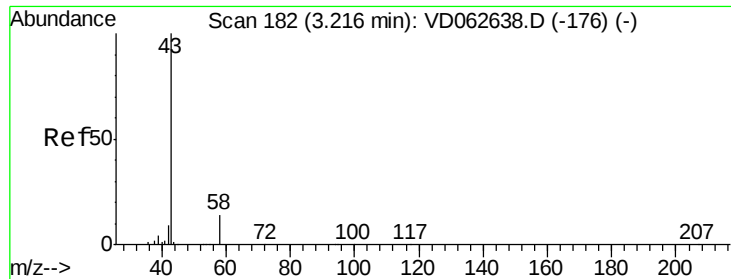


#13

Acrolein
Concen: 4.986 ug/l
RT: 3.06 min Scan# 166
Delta R.T. 0.03 min
Lab File: VD062748.D
Acq: 18 Jun 2019 14:37

Tgt Ion: 56 Resp: 250
Ion Ratio Lower Upper
56 100
55 100.0 59.4 89.0#





#16

Acetone

Concen: 4.352 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD062748.D

Acq: 18 Jun 2019 14:37

Instrument :

MSVOA_D

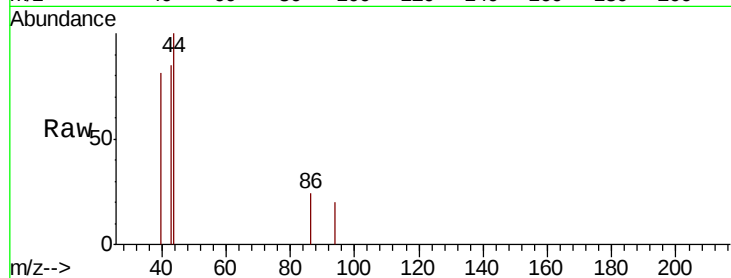
ClientSampleId :

Tot Ion: 43 Resp: 3022

Ion Ratio Lower Upper

43 100

58 0.0 10.8 16.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.23

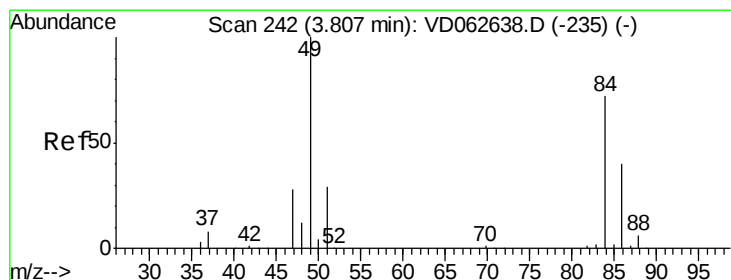
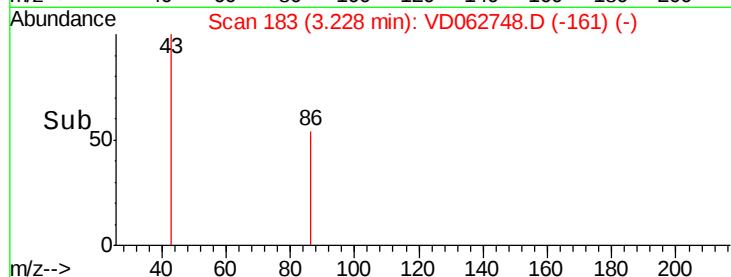
1500

1000

500

0

Time-->



#20

Methylene Chloride

Concen: 7.768 ug/l

RT: 3.83 min Scan# 244

Delta R.T. 0.02 min

Lab File: VD062748.D

Acq: 18 Jun 2019 14:37

Tgt Ion: 84 Resp: 21360

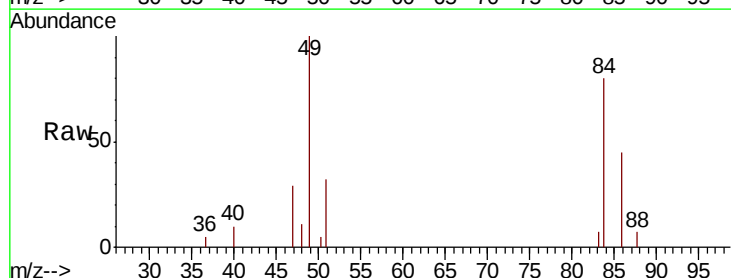
Ion Ratio Lower Upper

84 100

49 125.8 111.2 166.8

51 40.0 31.9 47.9

86 56.0 44.7 67.1



Abundance Ion 83.95 (83.65 to 84.65): 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

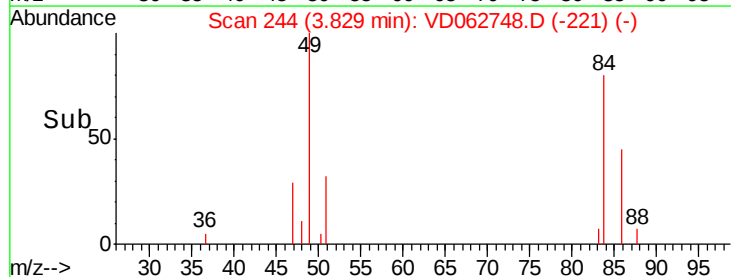
15000

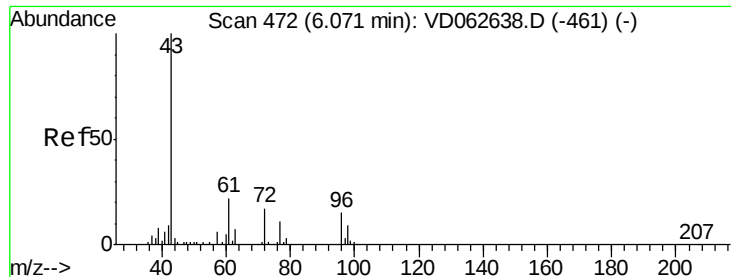
10000

5000

0

Time-->





#25

2-Butanone

Concen: 2.368 ug/l

RT: 6.15 min Scan# 480

Delta R.T. 0.08 min

Lab File: VD062748.D

Acq: 18 Jun 2019 14:37

Instrument :

MSVOA_D

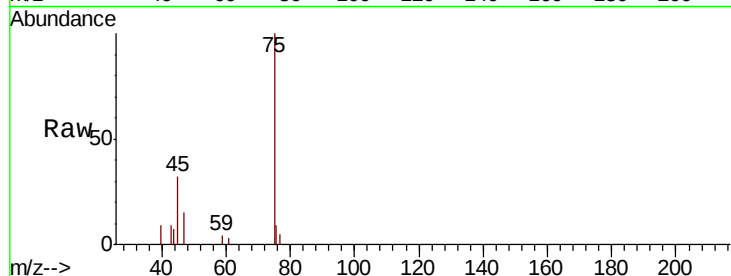
ClientSampleId :

Tot Ion: 43 Resp: 1604

Ion Ratio Lower Upper

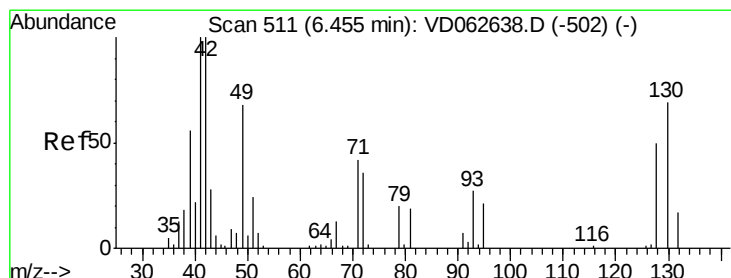
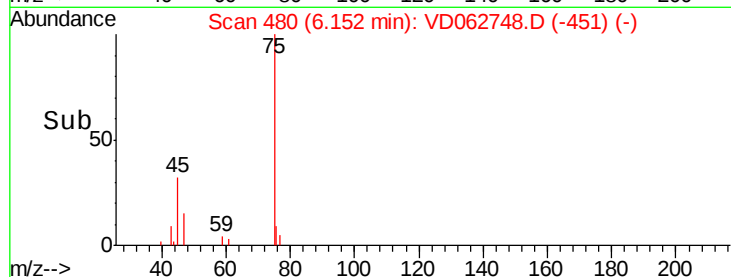
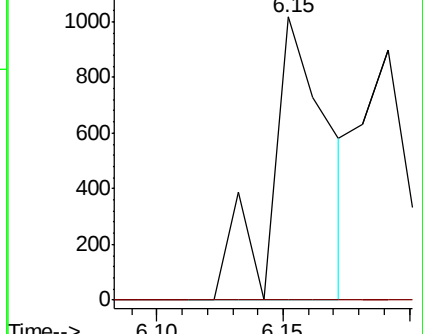
43 100

72 0.0 13.5 20.3#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 1.849 ug/l

RT: 6.49 min Scan# 514

Delta R.T. 0.03 min

Lab File: VD062748.D

Acq: 18 Jun 2019 14:37

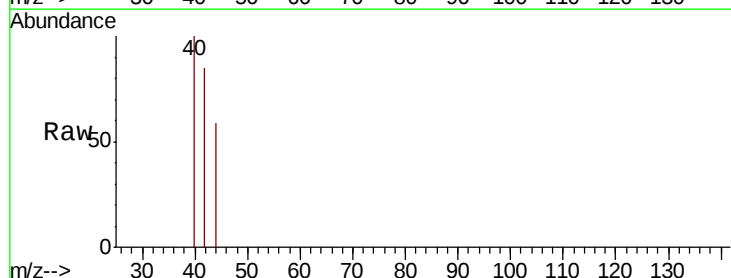
Tgt Ion: 42 Resp: 564

Ion Ratio Lower Upper

42 100

72 0.0 33.8 50.6#

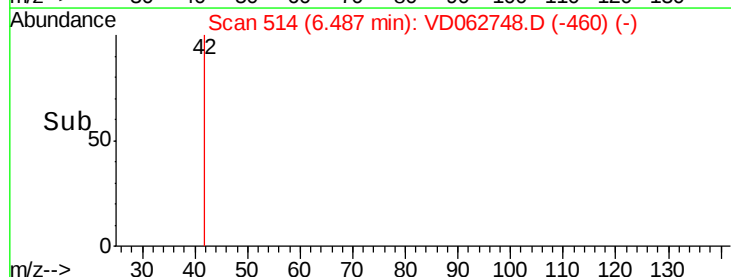
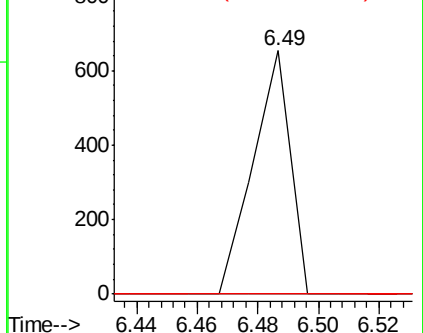
71 0.0 34.2 51.4#

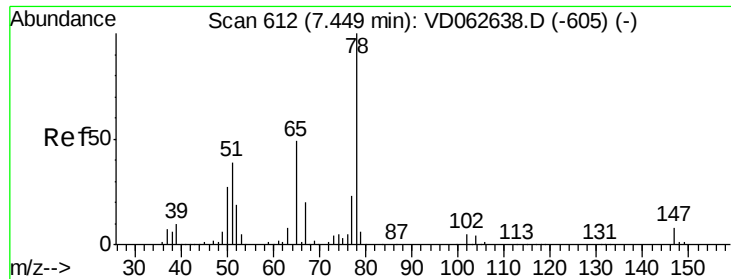


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC





#33

1,2-Dichloroethane-d4

Concen: 57.268 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.01 min

Lab File: VD062748.D

Acq: 18 Jun 2019 14:37

Instrument :

MSVOA_D

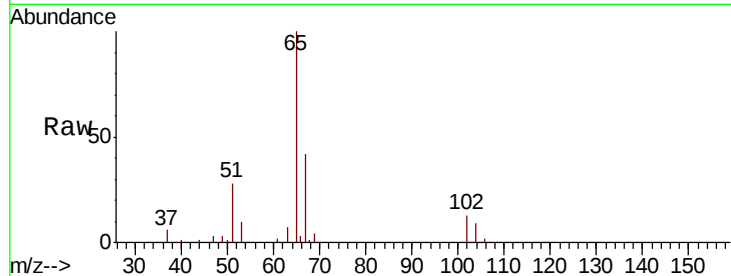
ClientSampleId :

Tot Ion: 65 Resp: 217179

Ion Ratio Lower Upper

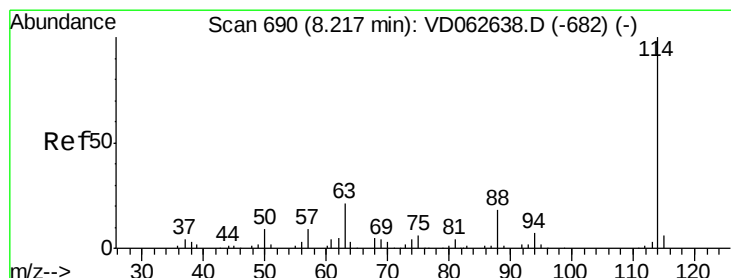
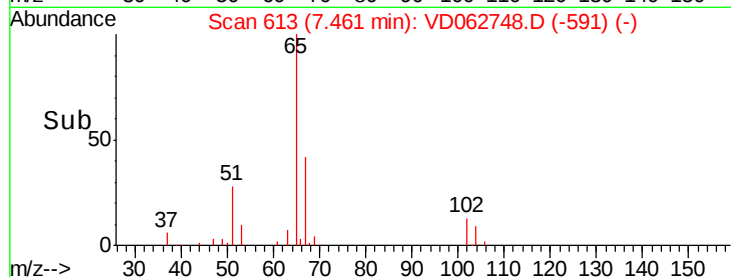
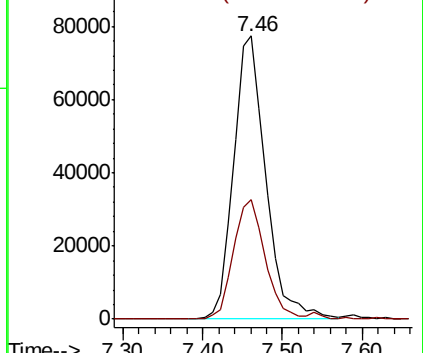
65 100

67 42.1 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: VD062748.D

Acq: 18 Jun 2019 14:37

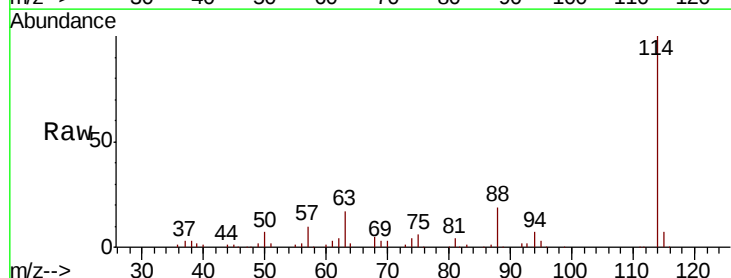
Tgt Ion: 114 Resp: 370026

Ion Ratio Lower Upper

114 100

63 16.6 0.0 42.4

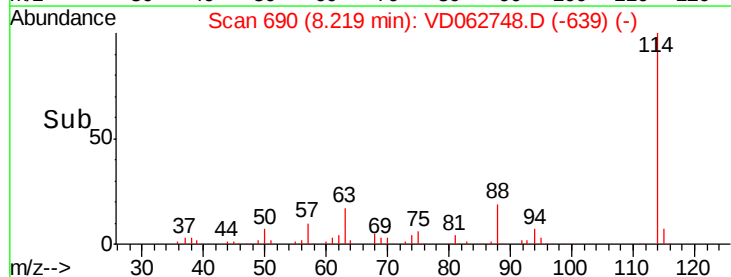
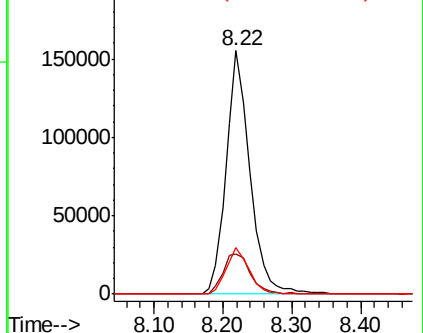
88 19.2 0.0 36.8

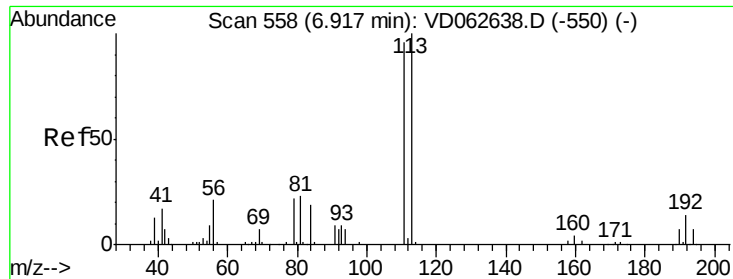


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

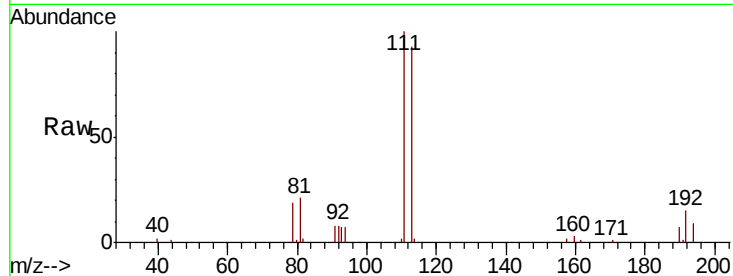




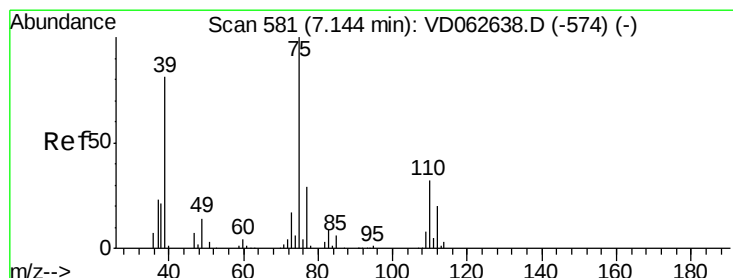
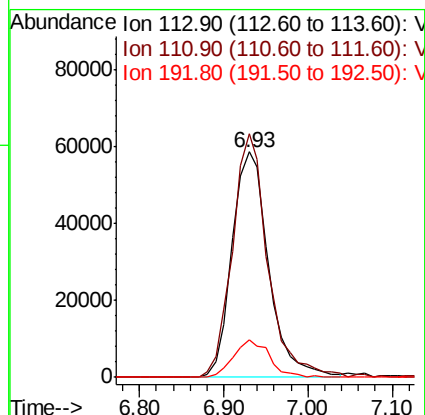
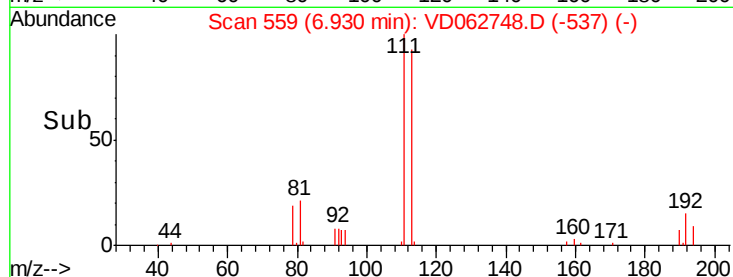
#35
 Dibromofluoromethane
 Concen: 45.759 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. 0.01 min
 Lab File: VD062748.D
 Acq: 18 Jun 2019 14:37

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:113 Resp: 178570
 Ion Ratio Lower Upper
 113 100
 111 107.9 76.4 114.6
 192 16.5 11.4 17.0

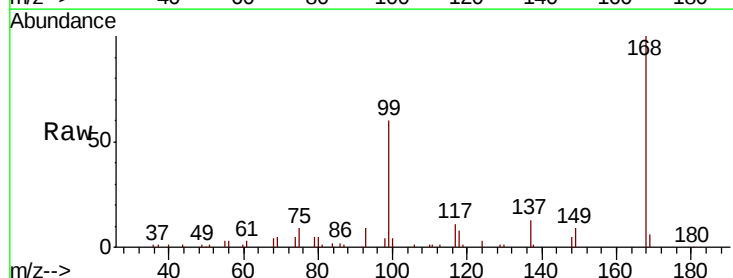


Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

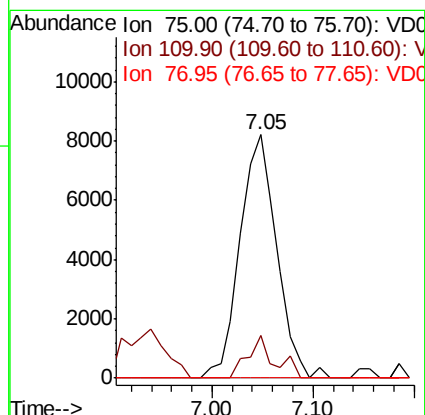
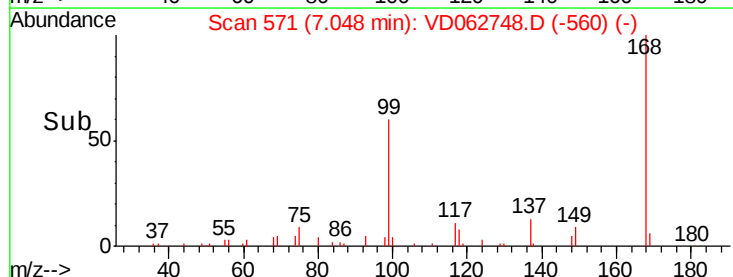


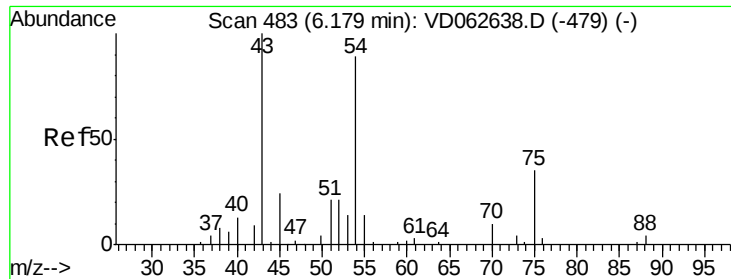
#36
 1,1-Dichloropropene
 Concen: 4.912 ug/l
 RT: 7.05 min Scan# 571
 Delta R.T. -0.10 min
 Lab File: VD062748.D
 Acq: 18 Jun 2019 14:37

Tgt Ion: 75 Resp: 20800
 Ion Ratio Lower Upper
 75 100
 110 17.6 15.9 47.7
 77 0.0 23.3 34.9#



Abundance Ion 75.00 (74.70 to 75.70): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.95 (76.65 to 77.65): V





#37

Ethyl Acetate

Concen: 2.068 ug/l

RT: 6.15 min Scan# 480

Delta R.T. -0.03 min

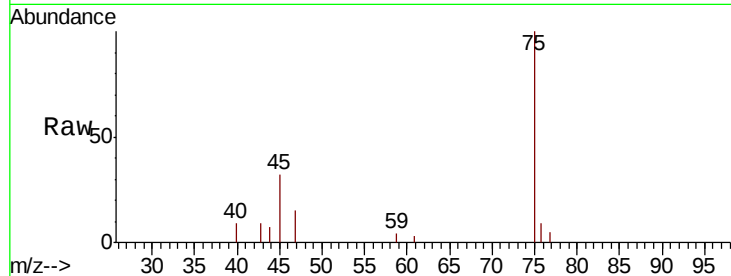
Lab File: VD062748.D

Acq: 18 Jun 2019 14:37

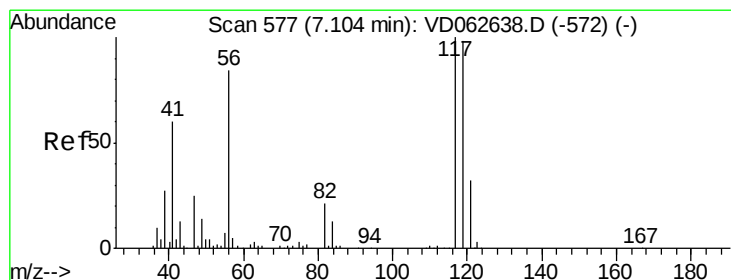
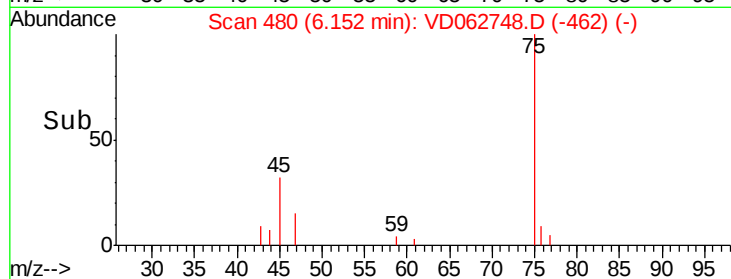
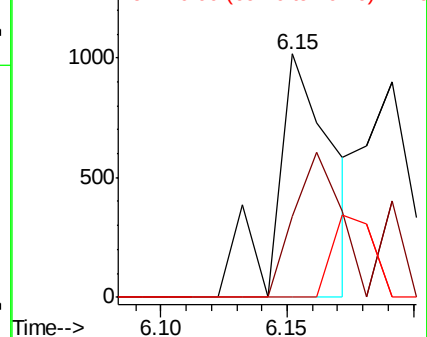
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 43 Resp: 1604

Ion	Ratio	Lower	Upper
43	100		
61	33.3	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: 3.976 ug/l

RT: 7.05 min Scan# 571

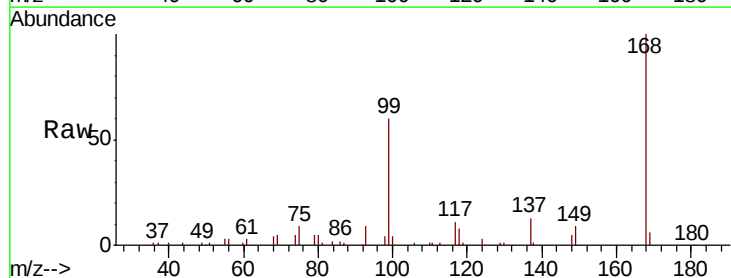
Delta R.T. -0.06 min

Lab File: VD062748.D

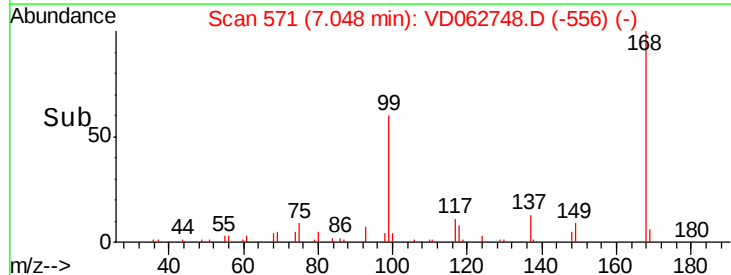
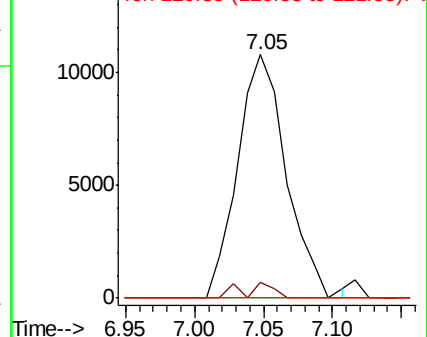
Acq: 18 Jun 2019 14:37

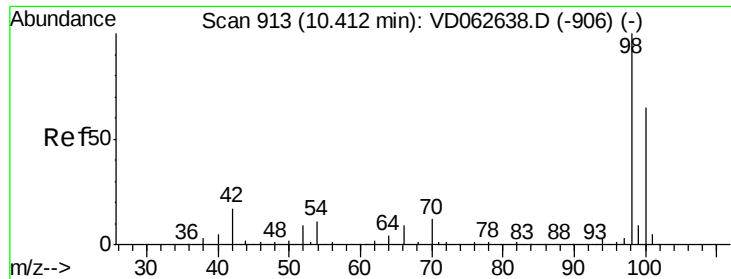
Tgt Ion: 117 Resp: 26614

Ion	Ratio	Lower	Upper
117	100		
119	6.3	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

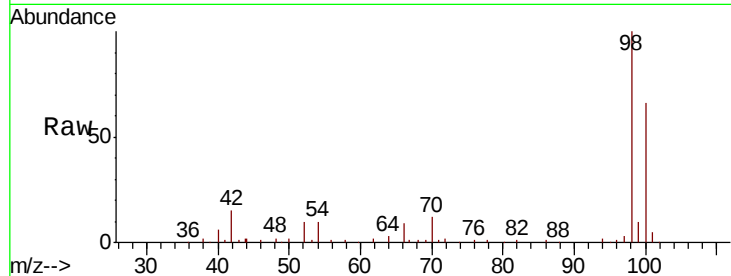




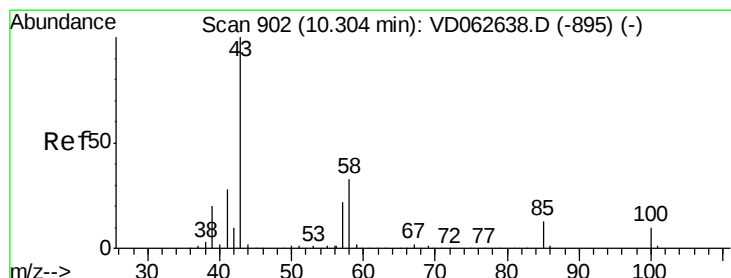
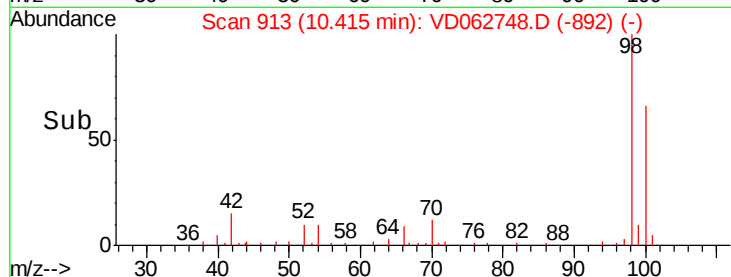
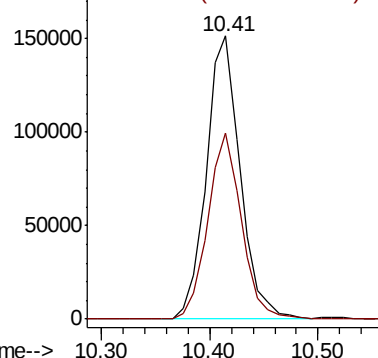
#50
Toluene-d8
Concen: 40.106 ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.00 min
Lab File: VD062748.D
Acq: 18 Jun 2019 14:37

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 329243
Ion Ratio Lower Upper
98 100
100 65.7 52.1 78.1

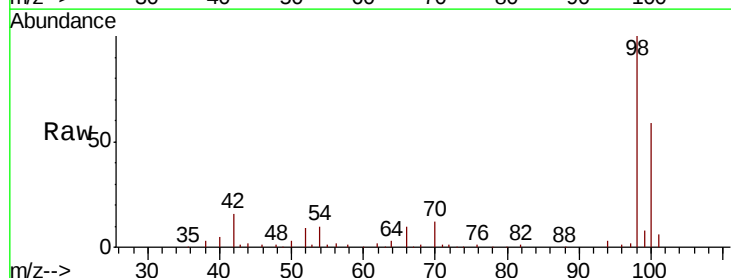


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

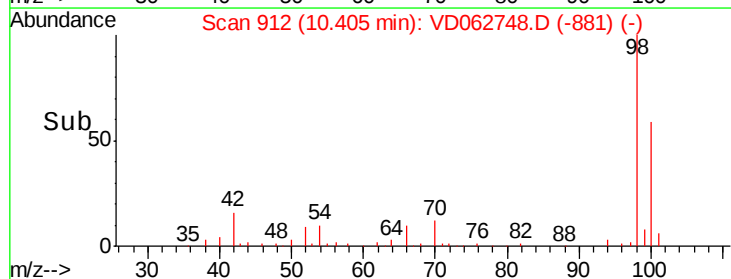
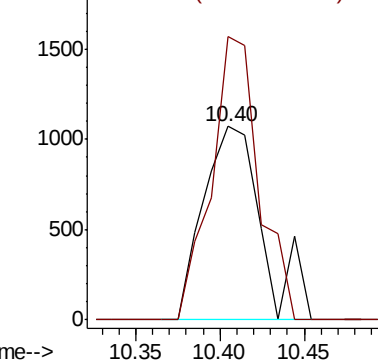


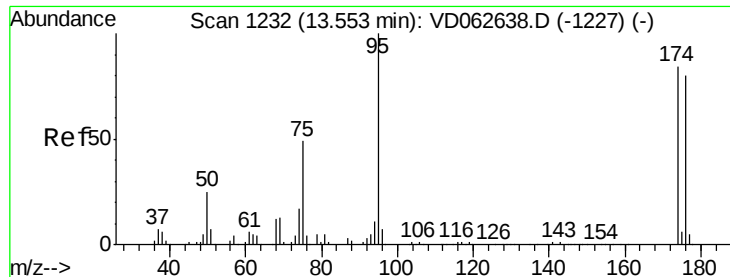
#51
4-Methyl-2-Pentanone
Concen: 1.656 ug/l
RT: 10.40 min Scan# 912
Delta R.T. 0.10 min
Lab File: VD062748.D
Acq: 18 Jun 2019 14:37

Tgt Ion: 43 Resp: 2589
Ion Ratio Lower Upper
43 100
58 146.1 26.1 39.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

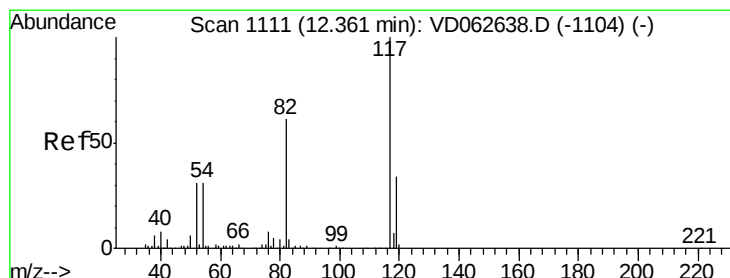
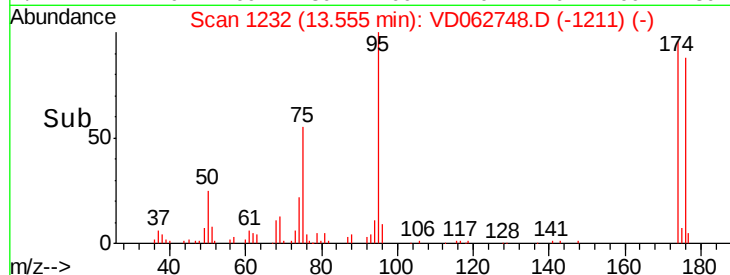
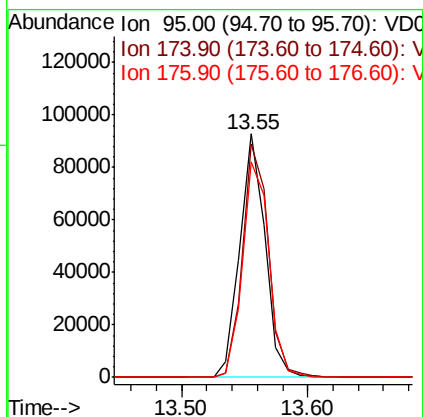
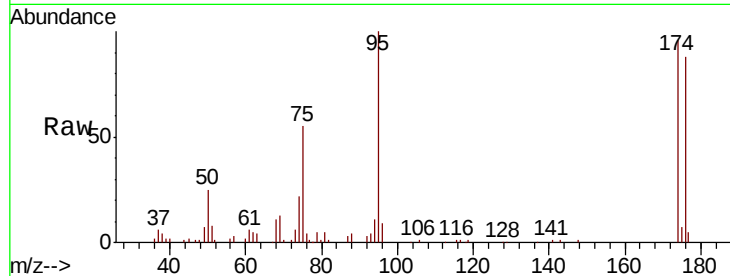




#62
4-Bromofluorobenzene
Concen: 33.504 ug/l
RT: 13.55 min Scan# 1232
Delta R.T. 0.00 min
Lab File: VD062748.D
Acq: 18 Jun 2019 14:37

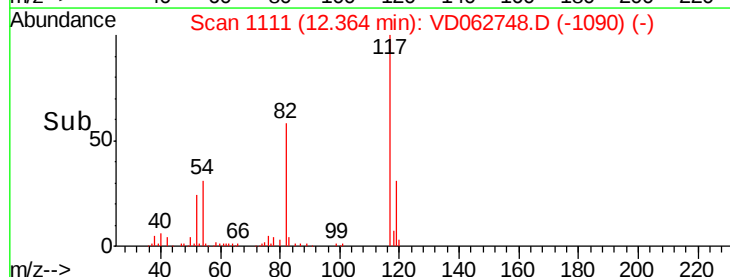
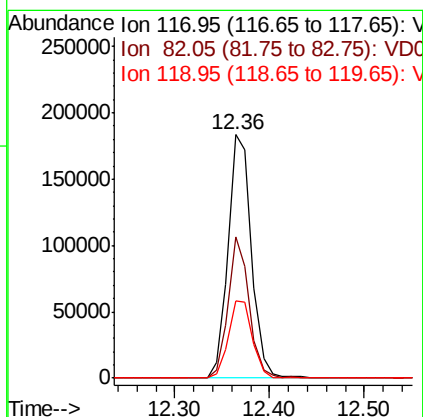
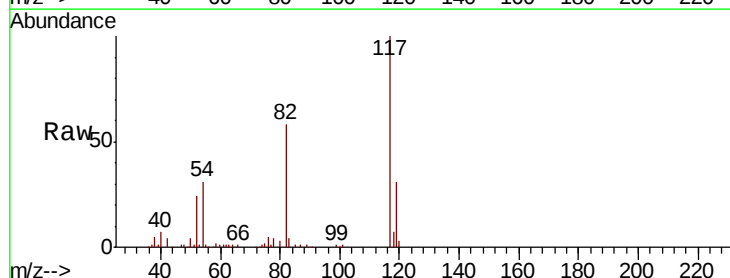
Instrument :
MSVOA_D
ClientSampleId :

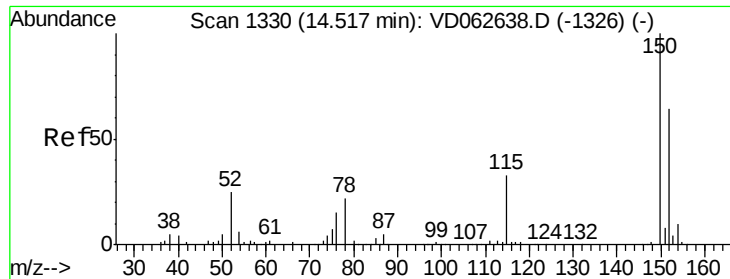
Tot Ion: 95 Resp: 128317
Ion Ratio Lower Upper
95 100
174 95.9 0.0 167.0
176 88.3 0.0 159.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD062748.D
Acq: 18 Jun 2019 14:37

Tgt Ion: 117 Resp: 313013
Ion Ratio Lower Upper
117 100
82 58.2 48.7 73.1
119 31.5 27.0 40.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VD062748.D

Acq: 18 Jun 2019 14:37

Instrument :

MSVOA_D

ClientSampleId :

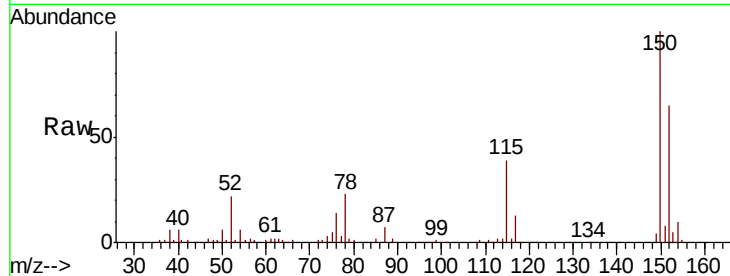
Tot Ion:152 Resp: 117548

Ion Ratio Lower Upper

152 100

115 61.0 30.1 90.5

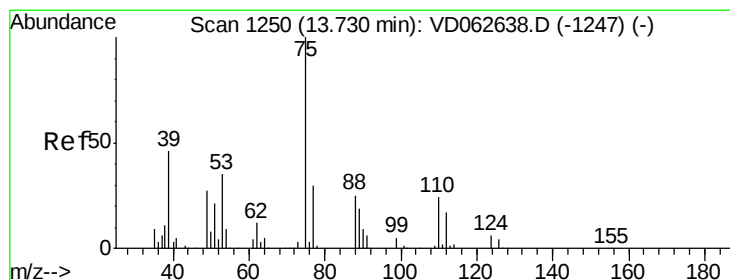
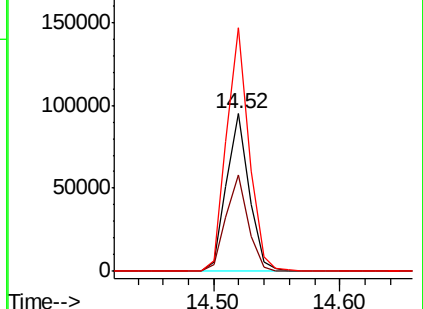
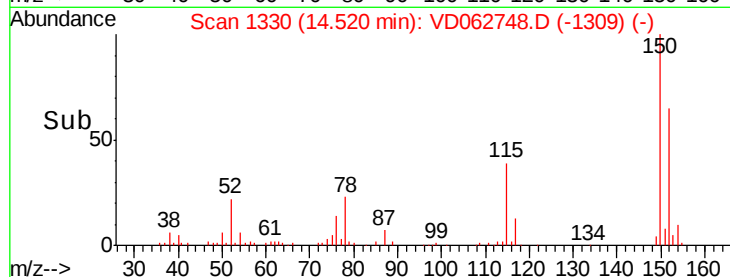
150 154.8 0.0 314.0



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



#76

1,2,3-Trichloropropane

Concen: 31.021 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.17 min

Lab File: VD062748.D

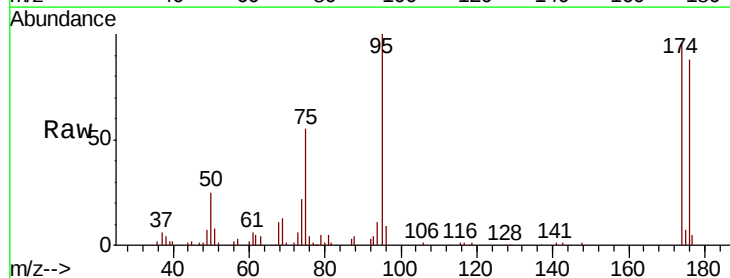
Acq: 18 Jun 2019 14:37

Tgt Ion: 75 Resp: 49442

Ion Ratio Lower Upper

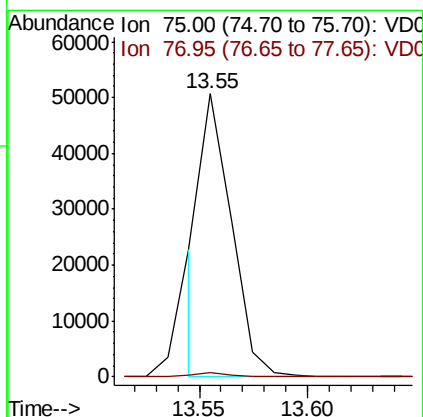
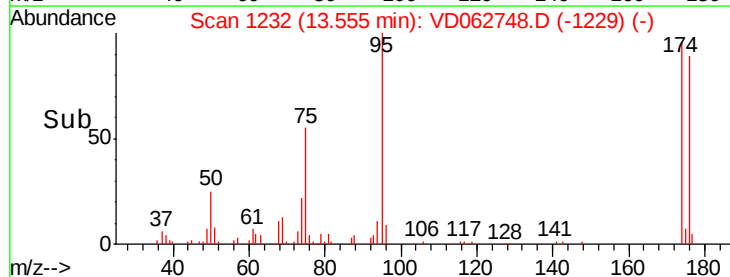
75 100

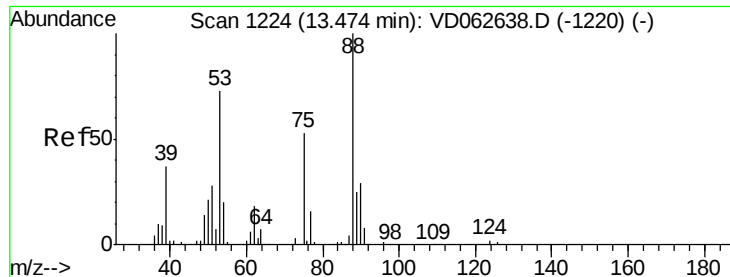
77 1.7 16.2 48.6#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 76.95 (76.65 to 77.65): V





#81

trans-1,4-Dichloro-2-butene

Concen: 130.780 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD062748.D

Acq: 18 Jun 2019 14:37

Instrument :

MSVOA_D

ClientSampleId :

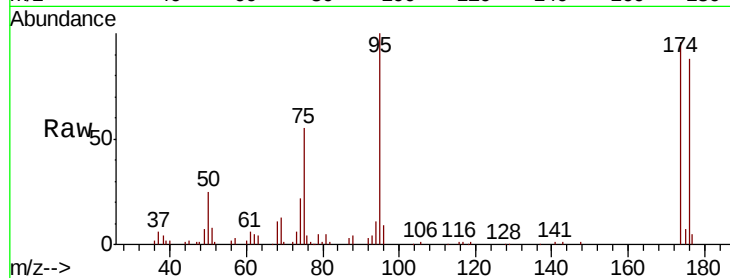
Tot Ion: 75 Resp: 65040

Ion Ratio Lower Upper

75 100

53 0.0 109.4 164.2#

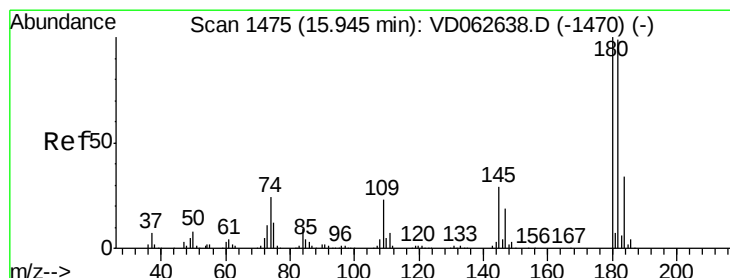
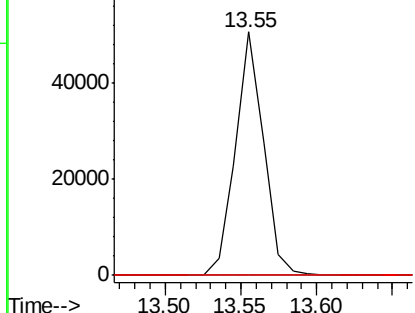
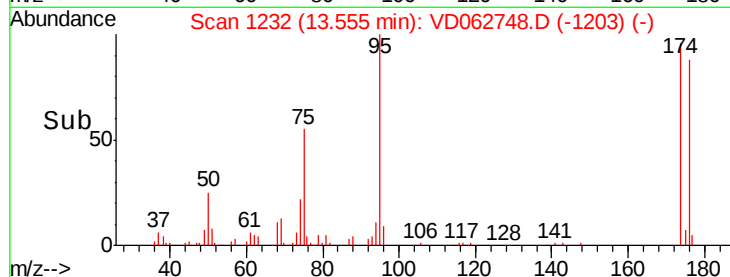
89 0.0 37.0 55.6#



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: 3.968 ug/l

RT: 15.95 min Scan# 1475

Delta R.T. 0.00 min

Lab File: VD062748.D

Acq: 18 Jun 2019 14:37

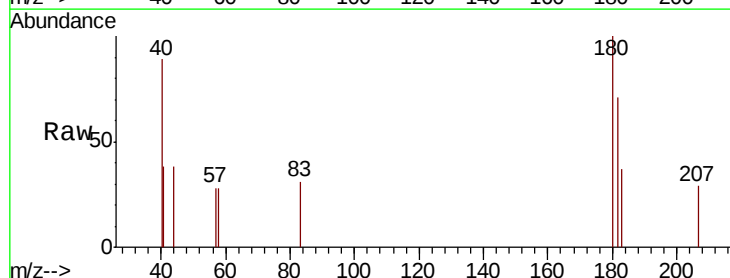
Tgt Ion:180 Resp: 1304

Ion Ratio Lower Upper

180 100

182 70.6 49.4 148.2

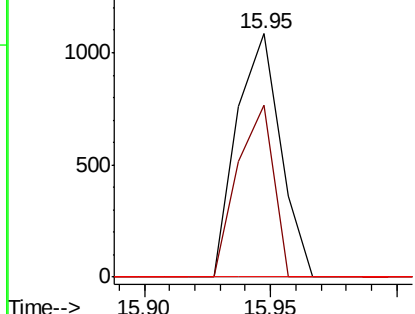
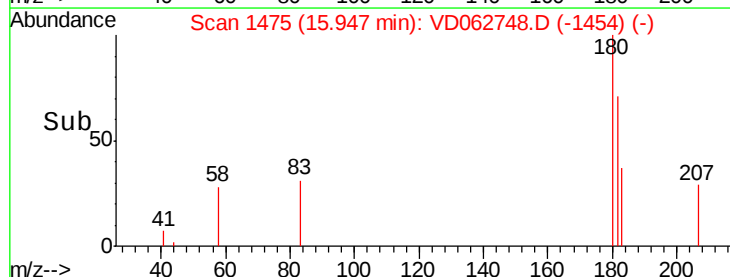
145 0.0 14.5 43.6#

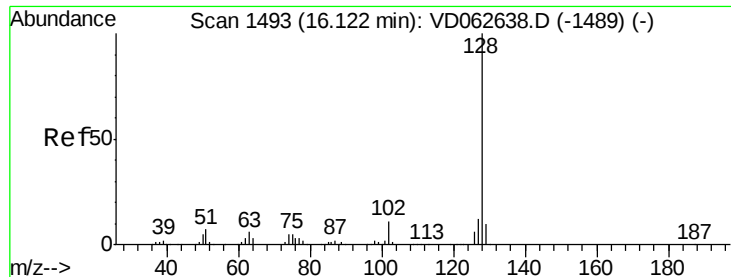


Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V





#95

Naphthalene

Concen: 3.854 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. 0.00 min

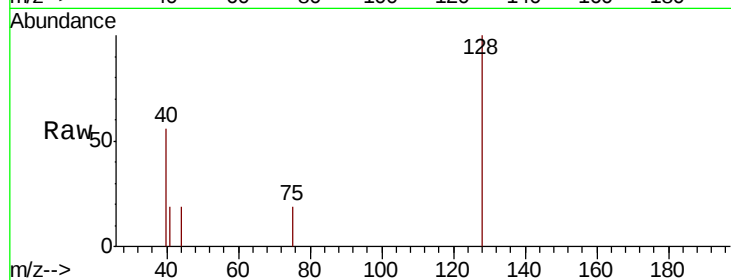
Lab File: VD062748.D

Acq: 18 Jun 2019 14:37

Instrument :

MSVOA_D

ClientSampleId :



Tot Ion:128 Resp: 1852

Ion Ratio Lower Upper

128 100

127 0.0 9.7 14.5#

129 0.0 8.1 12.1#

