

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061319\
 Data File : VD062695.D
 Acq On : 13 Jun 2019 15:39
 Operator : VA/AP
 Sample : K3351-07
 Misc : 6.43g/5ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 14 06:47:12 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	7.07	168	69462	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	8.23	114	100231	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.38	117	92811	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	51018	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.47	65	60466	60.33	ug/l	0.03
Spiked Amount			Recovery	=	120.66%	
35) Dibromofluoromethane	6.94	113	46981	44.44	ug/l	0.03
Spiked Amount			Recovery	=	88.88%	
50) Toluene-d8	10.43	98	72970	32.81	ug/l	0.02
Spiked Amount			Recovery	=	65.62%	
62) 4-Bromofluorobenzene	13.57	95	46397	44.72	ug/l	0.02
Spiked Amount			Recovery	=	89.44%	

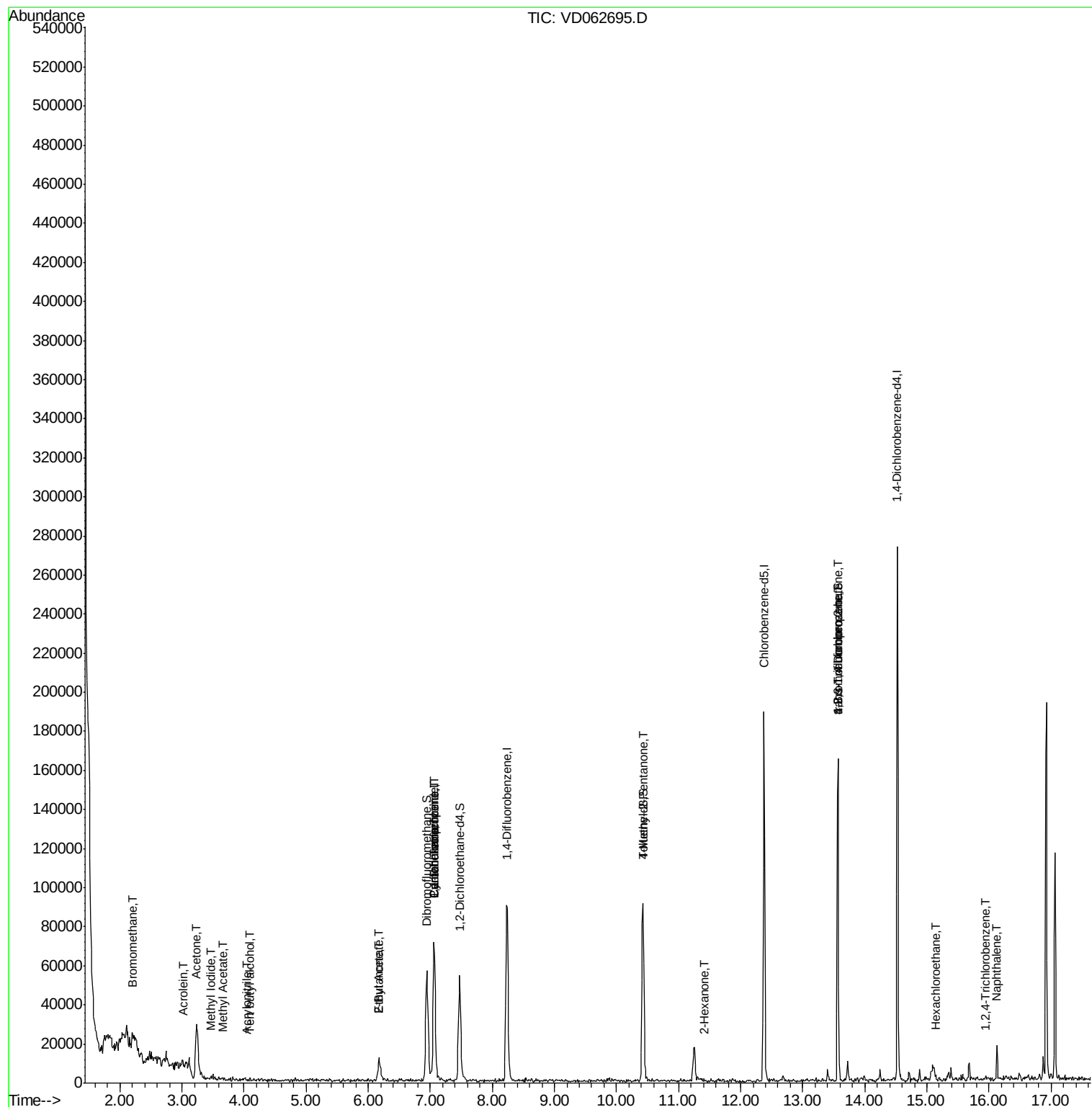
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.20	94	2644	7.391	ug/l #	11
10) Methyl Iodide	3.47	142	292	4.225	ug/l #	24
11) Tert butyl alcohol	4.10	59	199	4.830	ug/l #	61
13) Acrolein	3.01	56	695	52.441	ug/l #	12
15) Acrylonitrile	4.06	53	253	2.702	ug/l #	12
16) Acetone	3.23	43	63585	346.431	ug/l	97
18) Methyl Acetate	3.65	43	854	2.831	ug/l #	64
20) Methylene Chloride	3.84	84	225	Below Cal	#	44
25) 2-Butanone	6.18	43	492	2.748	ug/l #	61
31) Cyclohexane	7.06	56	869	1.099	ug/l #	1
36) 1,1-Dichloropropene	7.06	75	5100	4.446	ug/l #	44
37) Ethyl Acetate	6.18	43	492	2.183	ug/l #	74
38) Carbon Tetrachloride	7.06	117	6819	3.761	ug/l #	14
51) 4-Methyl-2-Pentanone	10.42	43	542	1.280	ug/l #	42
59) 2-Hexanone	11.41	43	397	1.260	ug/l #	32
76) 1,2,3-Trichloropropane	13.56	75	22366	32.332	ug/l #	42
81) trans-1,4-Dichloro-2-buten	13.56	75	24650	114.694	ug/l #	1
90) Hexachloroethane	15.14	117	1528	1.617	ug/l #	8
93) 1,2,4-Trichlorobenzene	15.95	180	217	3.722	ug/l #	14
95) Naphthalene	16.13	128	10273	8.616	ug/l	98

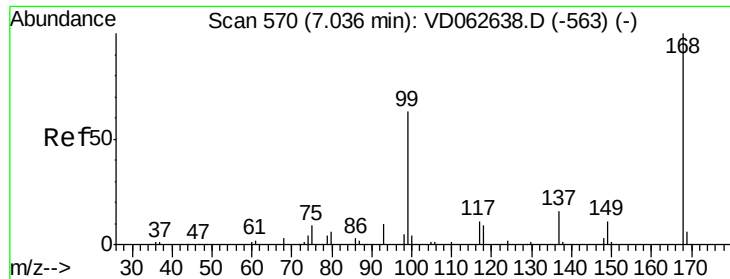
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 13 Jun 2019 15:39
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ClientSampleId :

Quant Time: Jun 14 06:47:12 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D060719S.M
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: 7.07 min Scan# 573

Delta R.T. 0.04 min

Lab File: VD062695.D

Acq: 13 Jun 2019 15:39

Instrument :

MSVOA_D

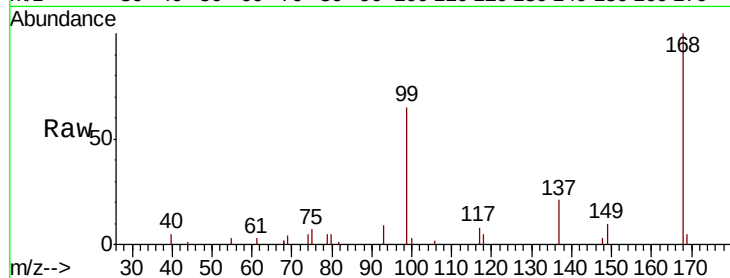
ClientSampleId :

Tot Ion:168 Resp: 69462

Ion Ratio Lower Upper

168 100

99 65.0 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.07

25000

20000

15000

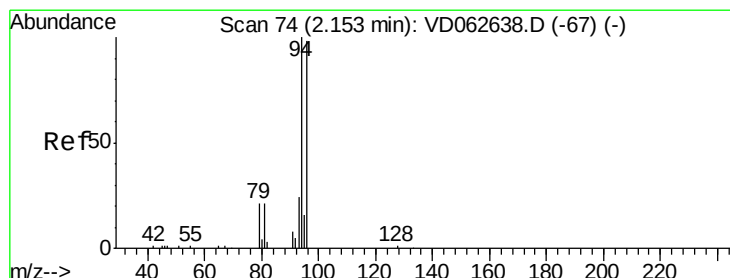
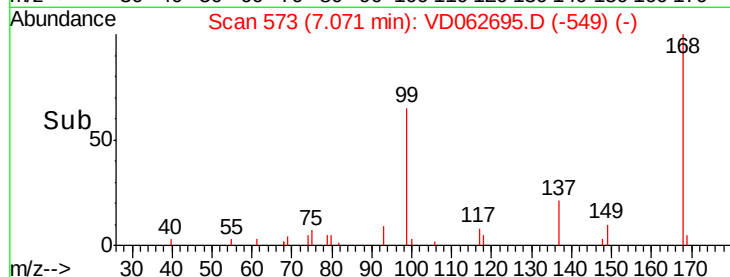
10000

5000

0

Time-->

6.90 7.00 7.10 7.20



#5

Bromomethane

Concen: 7.391 ug/l

RT: 2.20 min Scan# 78

Delta R.T. 0.05 min

Lab File: VD062695.D

Acq: 13 Jun 2019 15:39

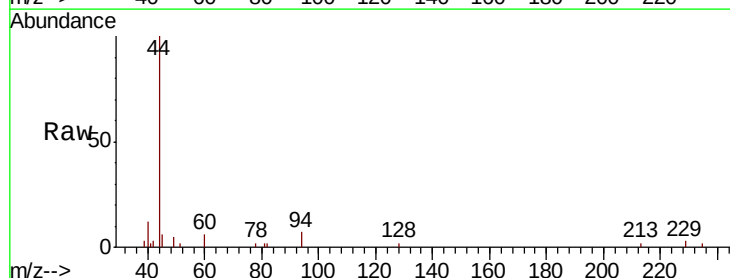
Tgt Ion: 94 Resp: 2644

Ion Ratio Lower Upper

94 100

96 0.0 78.1 117.1#

93 0.0 19.6 29.4#



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

2.20

1500

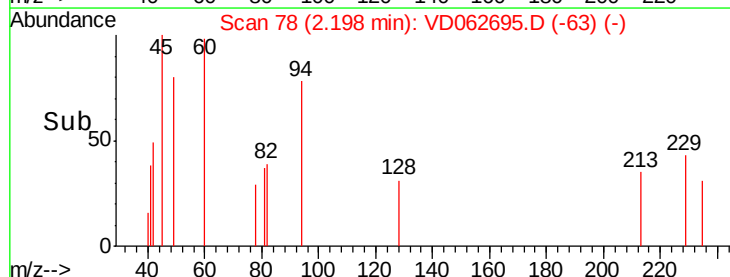
1000

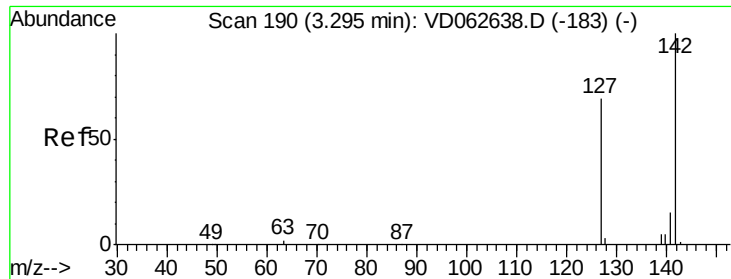
500

0

Time-->

2.10 2.15 2.20

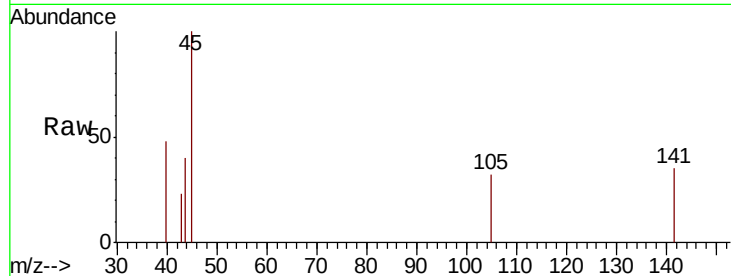




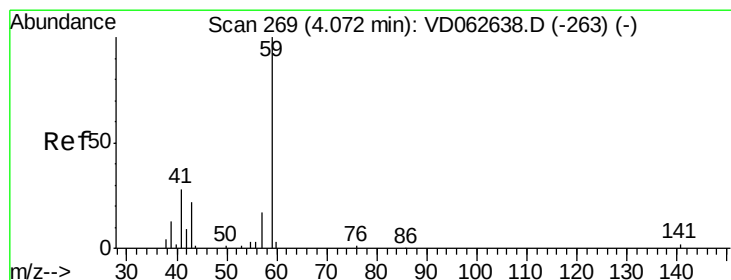
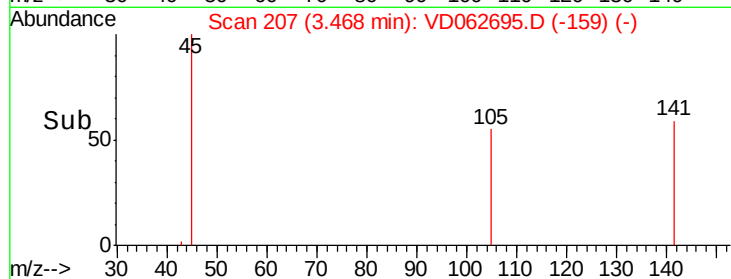
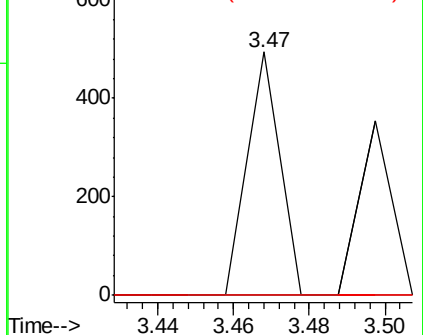
#10
Methyl Iodide
Concen: 4.225 ug/l
RT: 3.47 min Scan# 207
Delta R.T. 0.17 min
Lab File: VD062695.D
Acq: 13 Jun 2019 15:39

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:142 Resp: 292
Ion Ratio Lower Upper
142 100
127 0.0 55.2 82.8#
141 0.0 12.1 18.1#

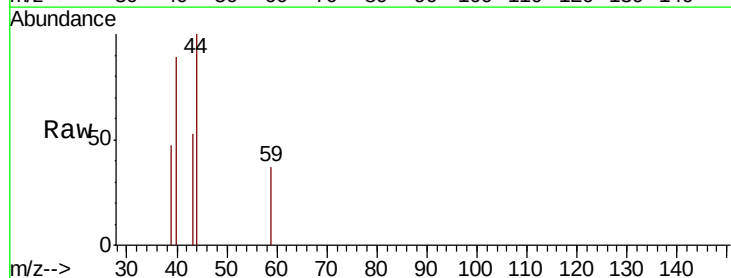


Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V

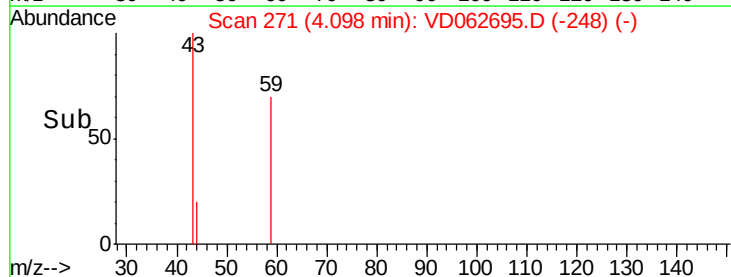
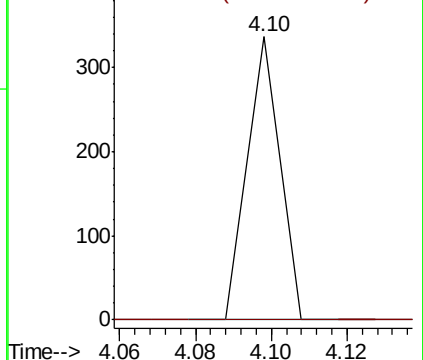


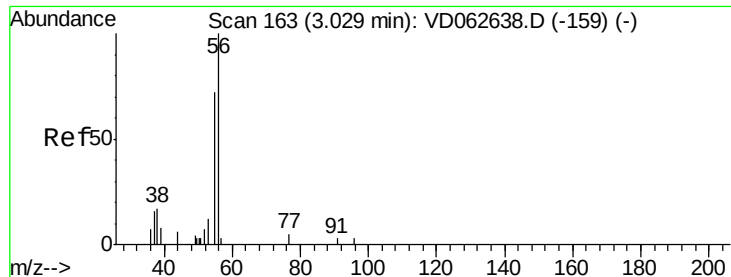
#11
Tert butyl alcohol
Concen: 4.830 ug/l
RT: 4.10 min Scan# 271
Delta R.T. 0.03 min
Lab File: VD062695.D
Acq: 13 Jun 2019 15:39

Tgt Ion: 59 Resp: 199
Ion Ratio Lower Upper
59 100
57 0.0 13.7 20.5#



Abundance Ion 58.95 (58.65 to 59.65): VDC
Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 52.441 ug/l

RT: 3.01 min Scan# 160

Delta R.T. -0.02 min

Lab File: VD062695.D

Acq: 13 Jun 2019 15:39

Instrument :

MSVOA_D

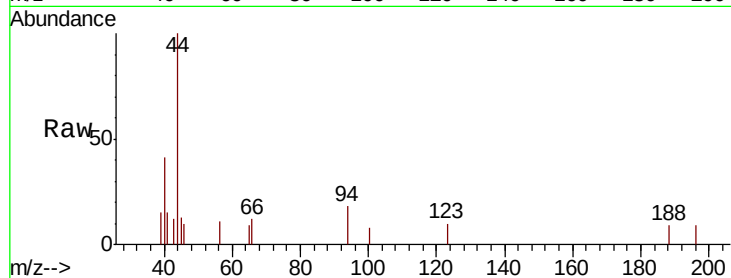
ClientSampleId :

Tot Ion: 56 Resp: 695

Ion Ratio Lower Upper

56 100

55 0.0 59.4 89.0#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

3.01

400

300

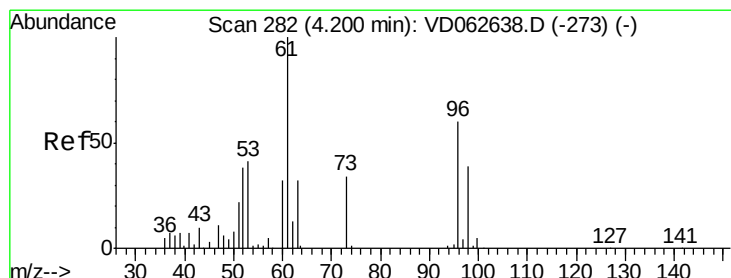
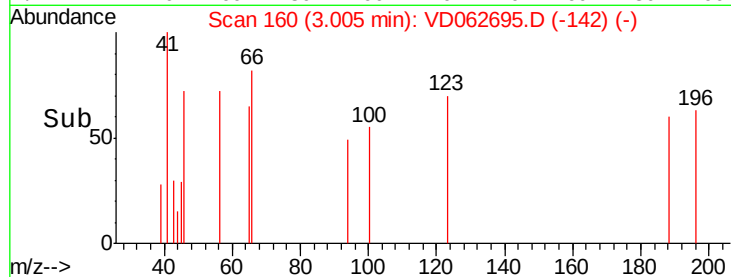
200

100

0

2.95 3.00

Time-->



#15

Acrylonitrile

Concen: 2.702 ug/l

RT: 4.06 min Scan# 267

Delta R.T. -0.14 min

Lab File: VD062695.D

Acq: 13 Jun 2019 15:39

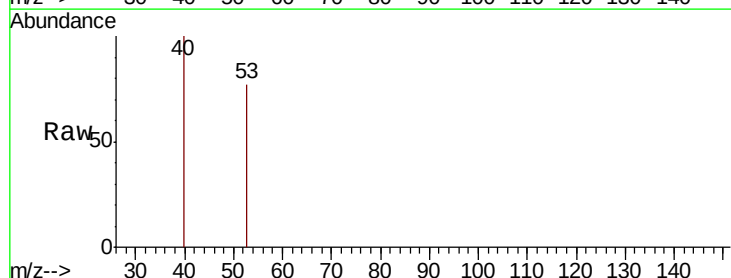
Tgt Ion: 53 Resp: 253

Ion Ratio Lower Upper

53 100

52 0.0 73.6 110.4#

51 0.0 42.0 63.0#



Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC

4.06

400

300

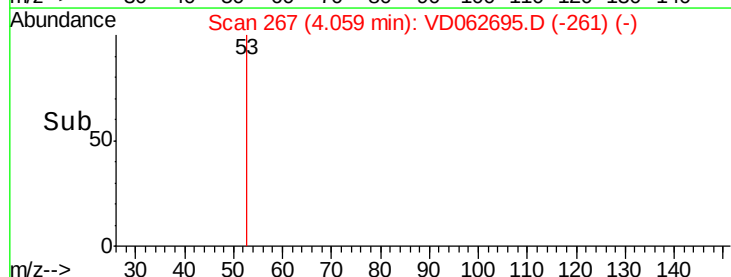
200

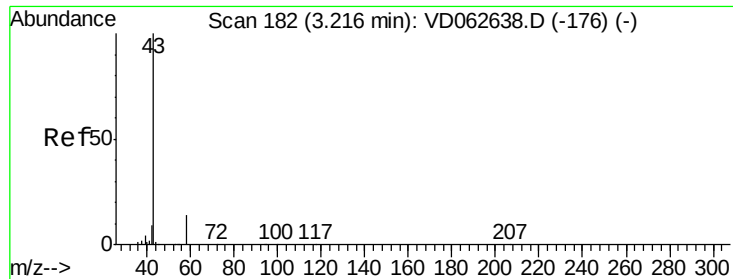
100

0

4.04 4.06 4.08

Time-->





#16

Acetone

Concen: 346.431 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.02 min

Lab File: VD062695.D

Acq: 13 Jun 2019 15:39

Instrument :

MSVOA_D

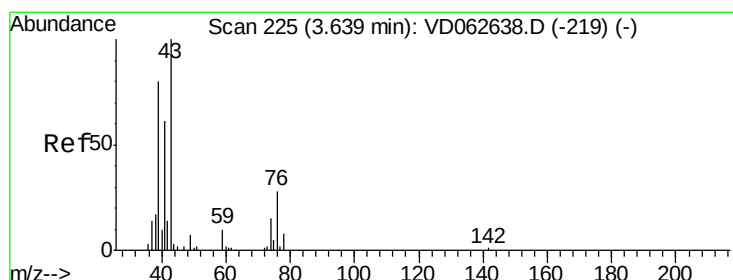
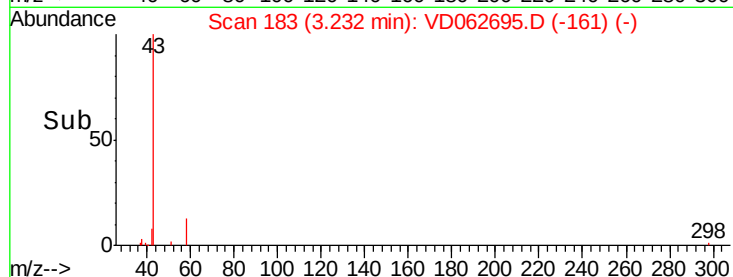
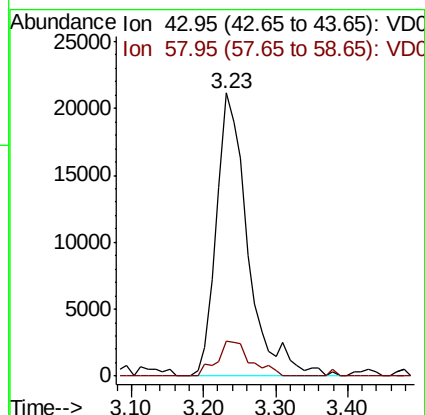
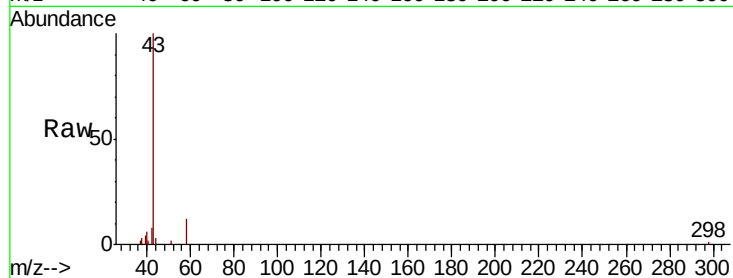
ClientSampleId :

Tot Ion: 43 Resp: 63585

Ion Ratio Lower Upper

43 100

58 12.5 10.8 16.2



#18

Methyl Acetate

Concen: 2.831 ug/l

RT: 3.65 min Scan# 226

Delta R.T. 0.02 min

Lab File: VD062695.D

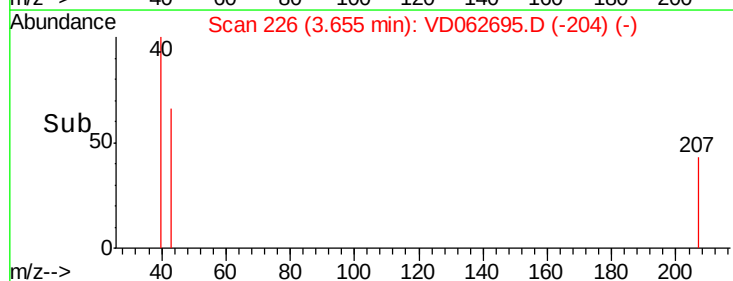
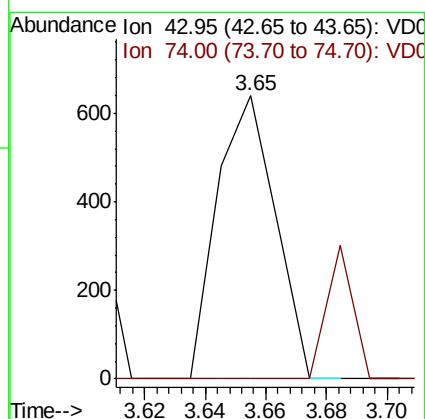
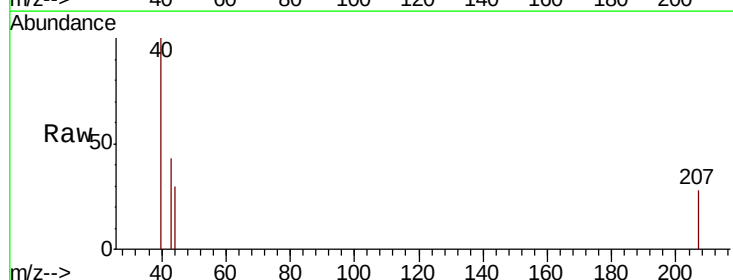
Acq: 13 Jun 2019 15:39

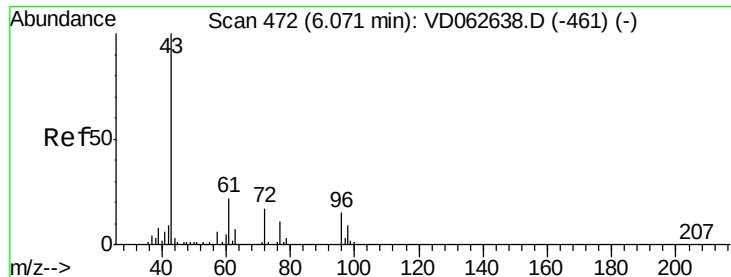
Tgt Ion: 43 Resp: 854

Ion Ratio Lower Upper

43 100

74 0.0 12.1 18.1#





#25

2-Butanone

Concen: 2.748 ug/l

RT: 6.18 min Scan# 483

Delta R.T. 0.11 min

Lab File: VD062695.D

Acq: 13 Jun 2019 15:39

Instrument :

MSVOA_D

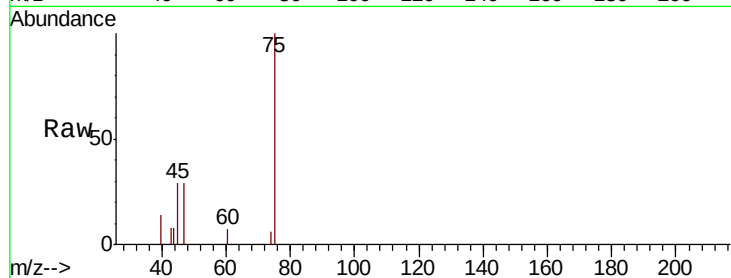
ClientSampleId :

Tot Ion: 43 Resp: 492

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

6.18

400

300

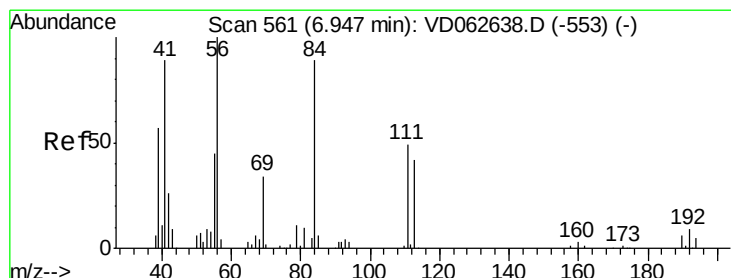
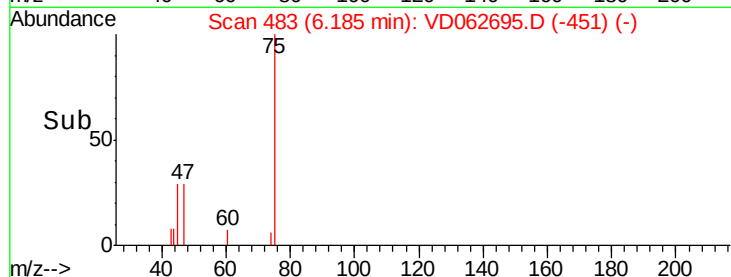
200

100

0

6.14 6.16 6.18 6.20 6.22

Time-->



#31

Cyclohexane

Concen: 1.099 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.11 min

Lab File: VD062695.D

Acq: 13 Jun 2019 15:39

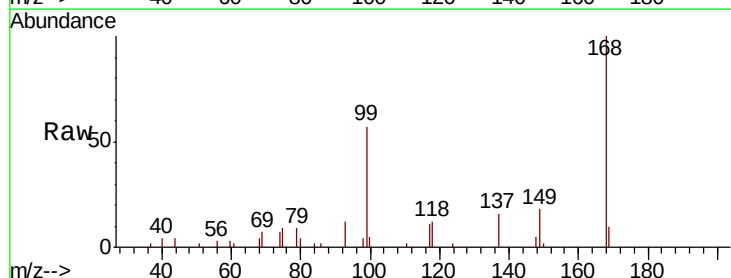
Tgt Ion: 56 Resp: 869

Ion Ratio Lower Upper

56 100

69 247.5 26.8 40.2#

84 71.4 73.9 110.9#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

2000

1500

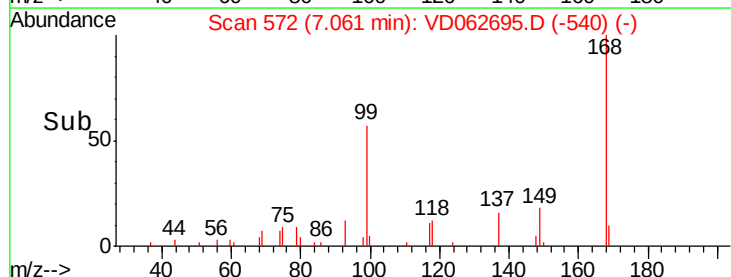
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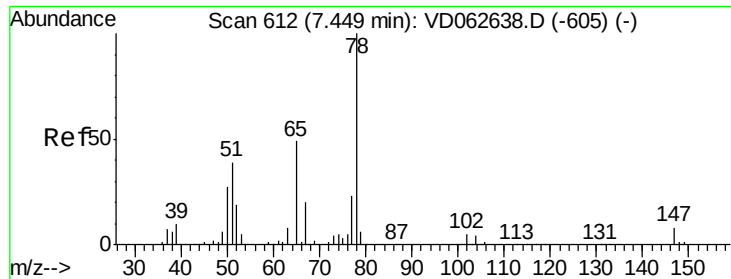
500

0

7.00 7.02 7.04 7.06 7.08

Time-->

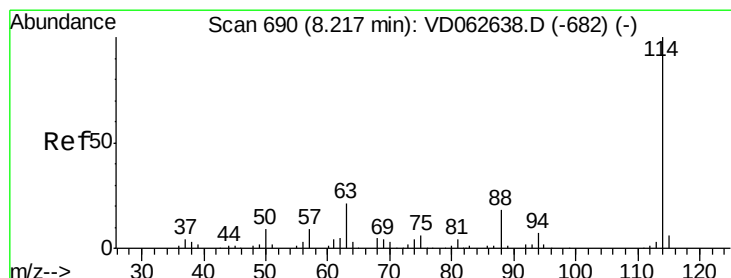
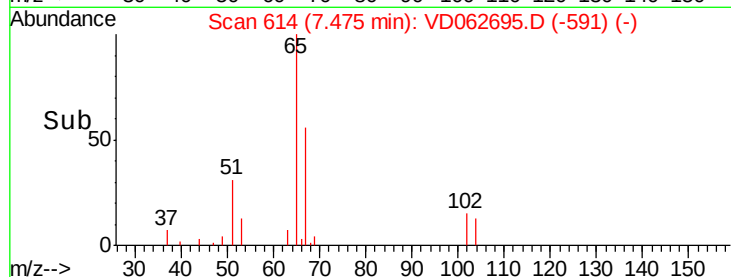
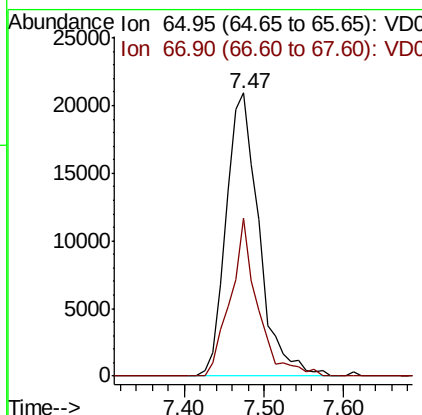
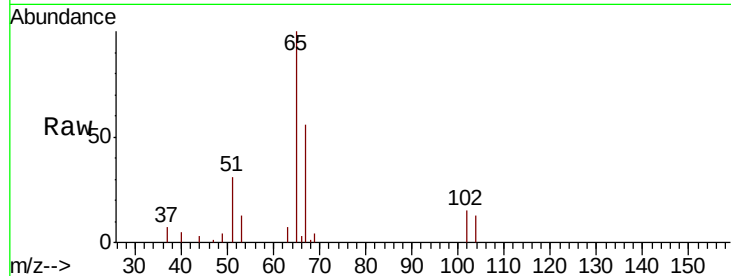




#33
 1,2-Dichloroethane-d4
 Concen: 60.325 ug/l
 RT: 7.47 min Scan# 614
 Delta R.T. 0.03 min
 Lab File: VD062695.D
 Acq: 13 Jun 2019 15:39

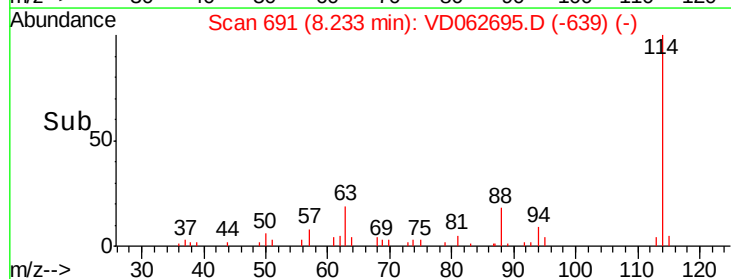
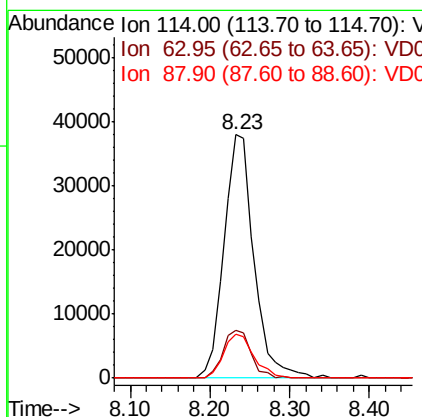
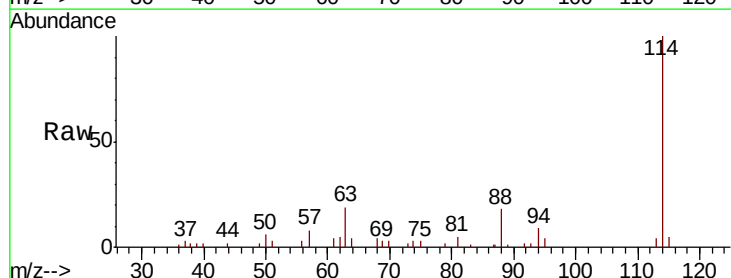
Instrument :
 MSVOA_D
 ClientSampleID :

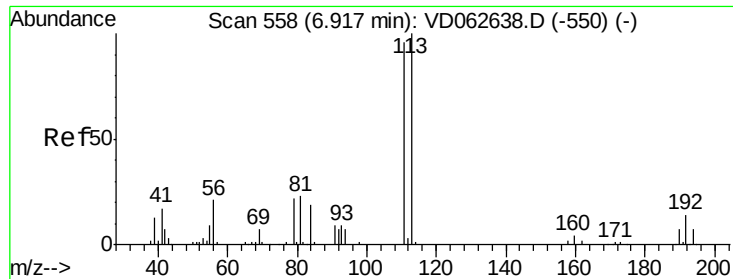
Tot Ion: 65 Resp: 60466
 Ion Ratio Lower Upper
 65 100
 67 55.7 0.0 81.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 691
 Delta R.T. 0.02 min
 Lab File: VD062695.D
 Acq: 13 Jun 2019 15:39

Tgt Ion: 114 Resp: 100231
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 42.4
 88 18.2 0.0 36.8





#35

Dibromofluoromethane

Concen: 44.445 ug/l

RT: 6.94 min Scan# 560

Delta R.T. 0.03 min

Lab File: VD062695.D

Acq: 13 Jun 2019 15:39

Instrument :

MSVOA_D

ClientSampleId :

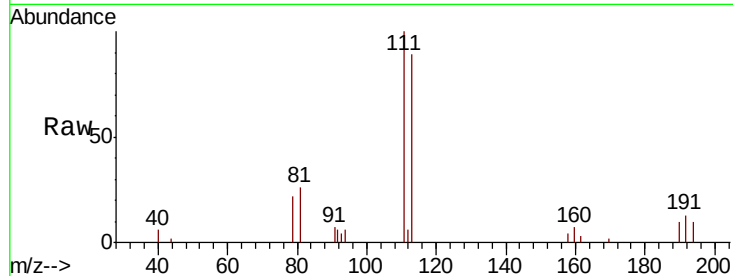
Tot Ion:113 Resp: 46981

Ion Ratio Lower Upper

113 100

111 113.0 76.4 114.6

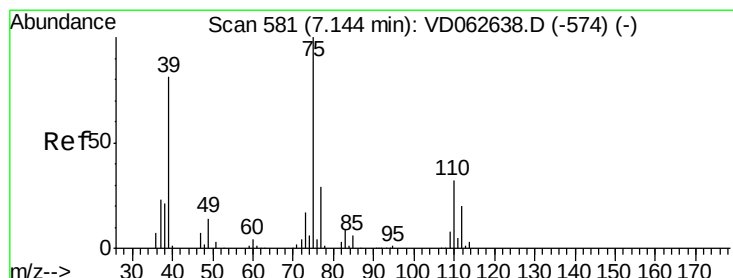
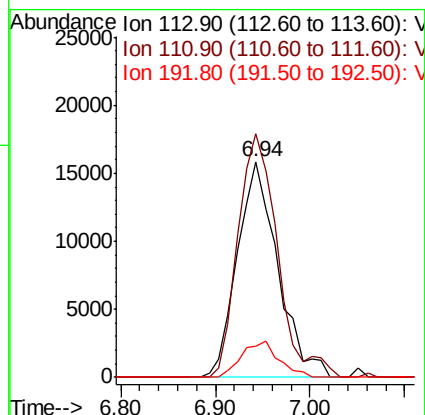
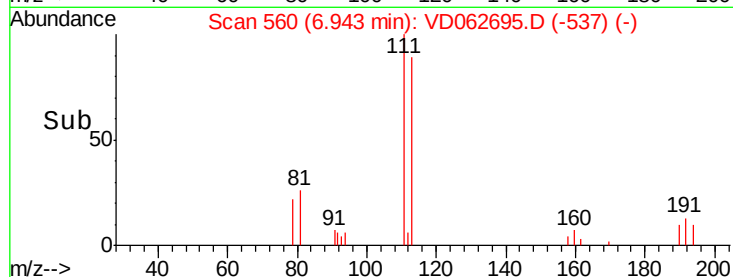
192 14.5 11.4 17.0



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: 4.446 ug/l

RT: 7.06 min Scan# 572

Delta R.T. -0.08 min

Lab File: VD062695.D

Acq: 13 Jun 2019 15:39

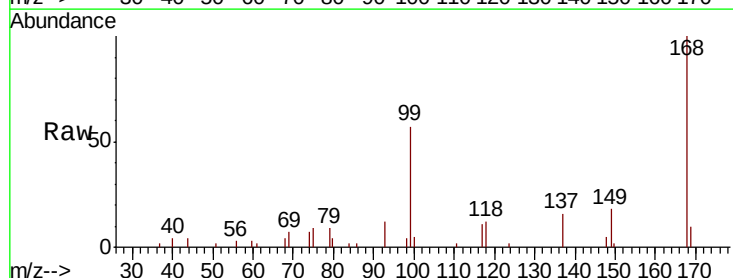
Tgt Ion: 75 Resp: 5100

Ion Ratio Lower Upper

75 100

110 0.0 15.9 47.7#

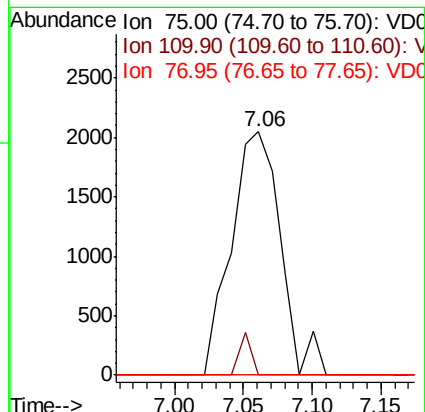
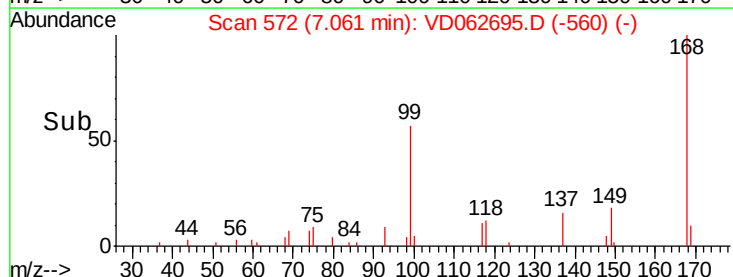
77 0.0 23.3 34.9#

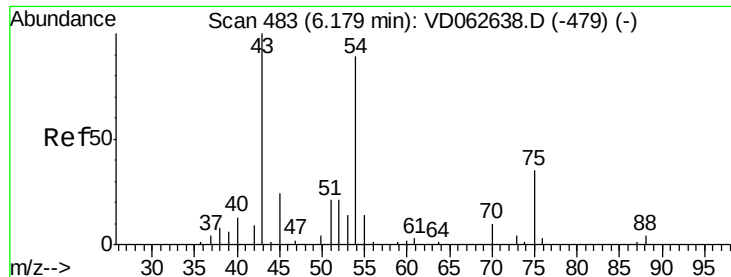


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

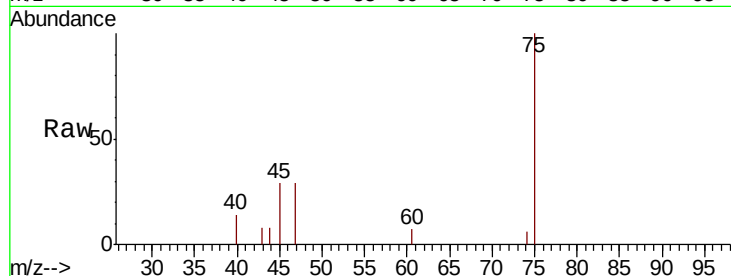




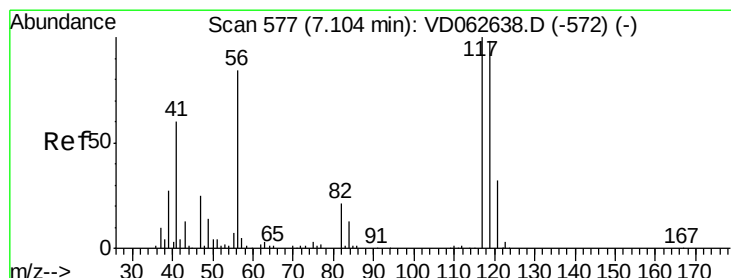
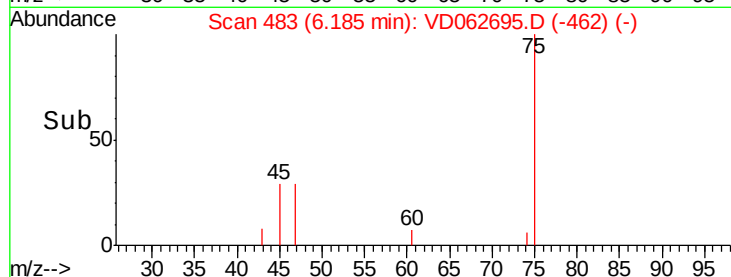
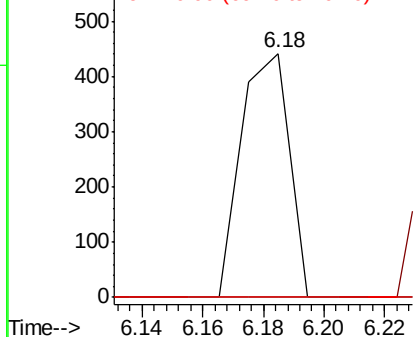
#37
Ethyl Acetate
Concen: 2.183 ug/l
RT: 6.18 min Scan# 483
Delta R.T. 0.01 min
Lab File: VD062695.D
Acq: 13 Jun 2019 15:39

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 492
Ion Ratio Lower Upper
43 100
61 0.0 8.7 13.1#
70 0.0 6.5 9.7#

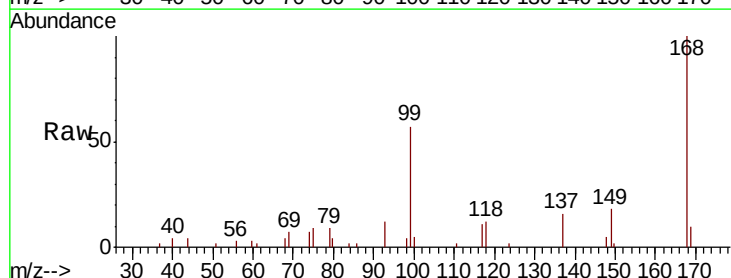


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

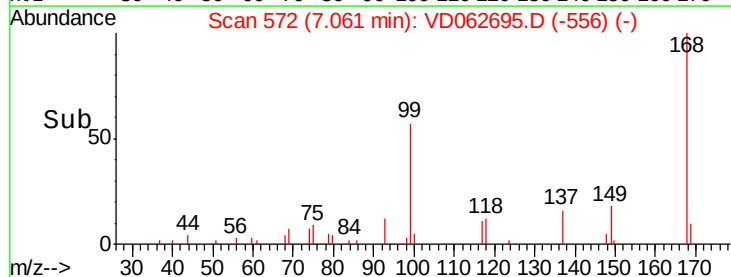
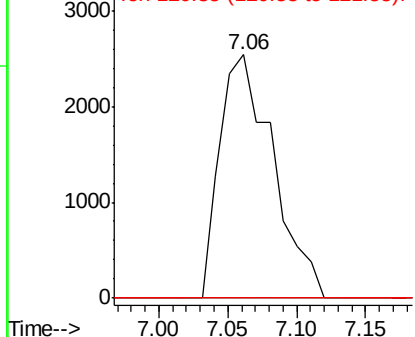


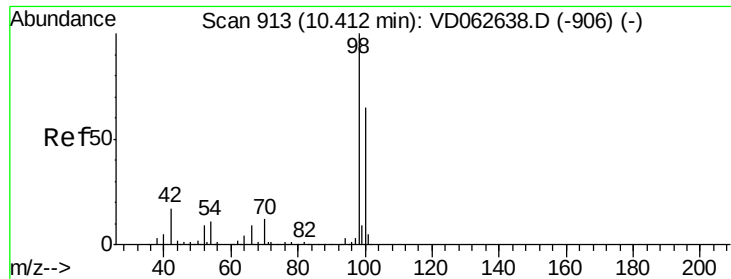
#38
Carbon Tetrachloride
Concen: 3.761 ug/l
RT: 7.06 min Scan# 572
Delta R.T. -0.04 min
Lab File: VD062695.D
Acq: 13 Jun 2019 15:39

Tgt Ion: 117 Resp: 6819
Ion Ratio Lower Upper
117 100
119 0.0 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

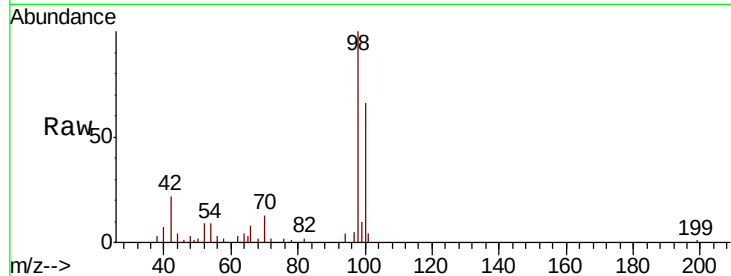




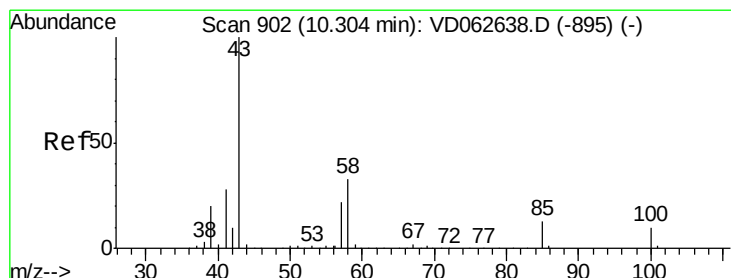
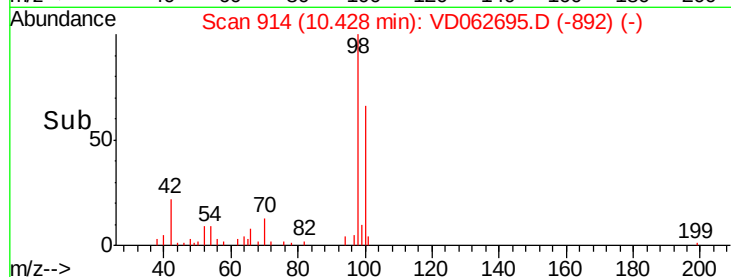
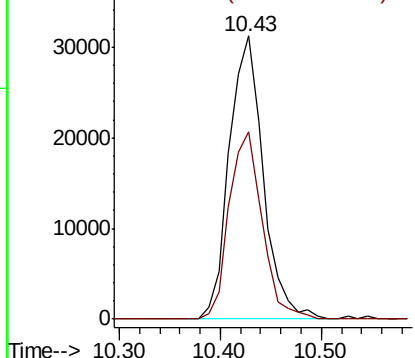
#50
Toluene-d8
Concen: 32.815 ug/l
RT: 10.43 min Scan# 914
Delta R.T. 0.02 min
Lab File: VD062695.D
Acq: 13 Jun 2019 15:39

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 72970
Ion Ratio Lower Upper
98 100
100 66.3 52.1 78.1

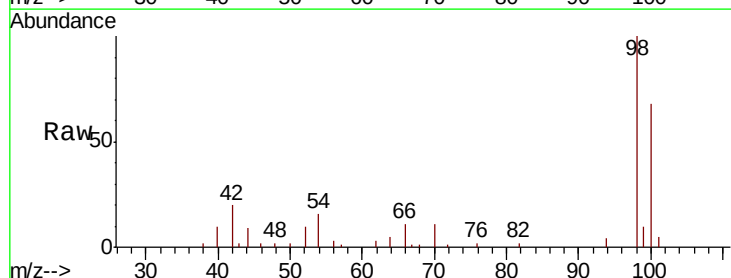


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

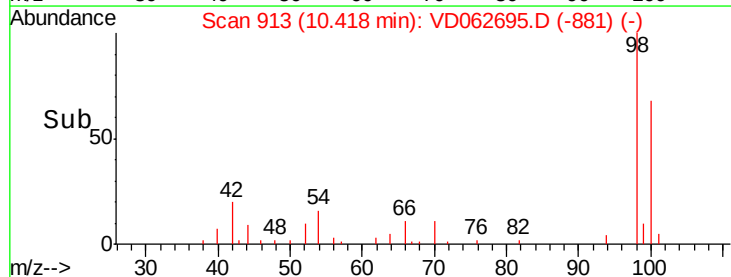
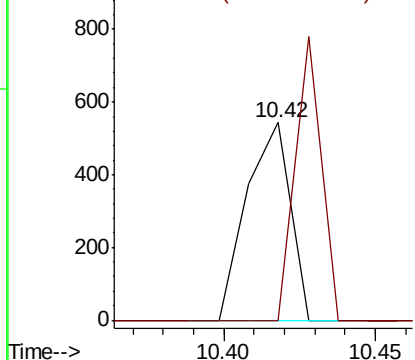


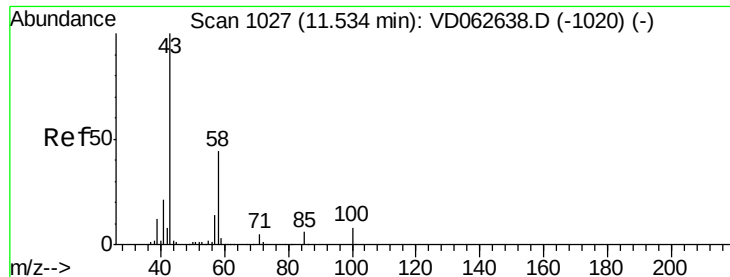
#51
4-Methyl-2-Pentanone
Concen: 1.280 ug/l
RT: 10.42 min Scan# 913
Delta R.T. 0.11 min
Lab File: VD062695.D
Acq: 13 Jun 2019 15:39

Tgt Ion: 43 Resp: 542
Ion Ratio Lower Upper
43 100
58 0.0 26.1 39.1#



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





#59

2-Hexanone

Concen: 1.260 ug/l

RT: 11.41 min Scan# 1014

Delta R.T. -0.12 min

Lab File: VD062695.D

Acq: 13 Jun 2019 15:39

Instrument :

MSVOA_D

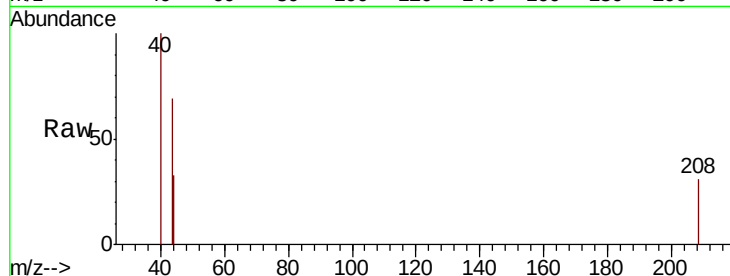
ClientSampleId :

Tot Ion: 43 Resp: 397

Ion Ratio Lower Upper

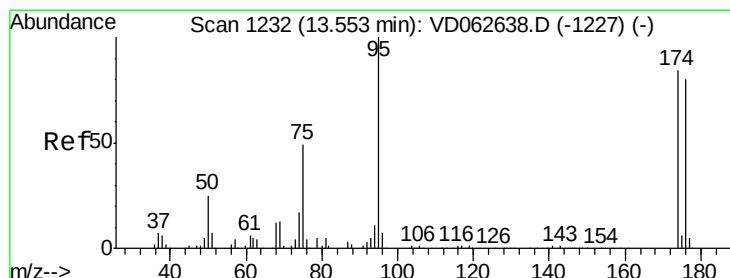
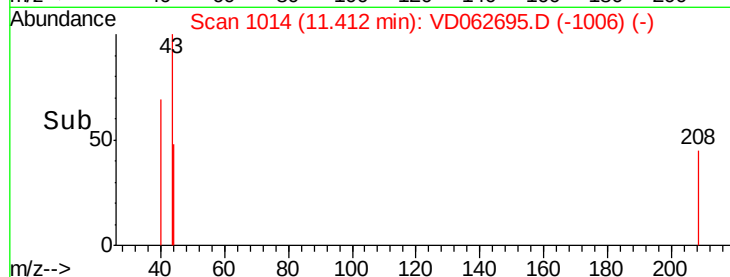
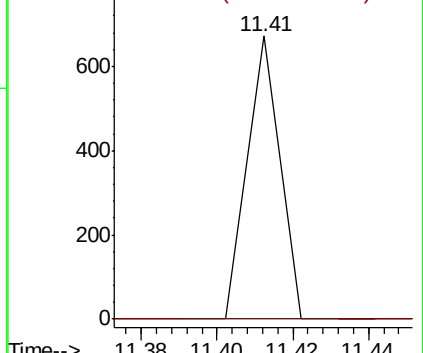
43 100

58 0.0 21.8 65.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#62

4-Bromofluorobenzene

Concen: 44.723 ug/l

RT: 13.57 min Scan# 1233

Delta R.T. 0.02 min

Lab File: VD062695.D

Acq: 13 Jun 2019 15:39

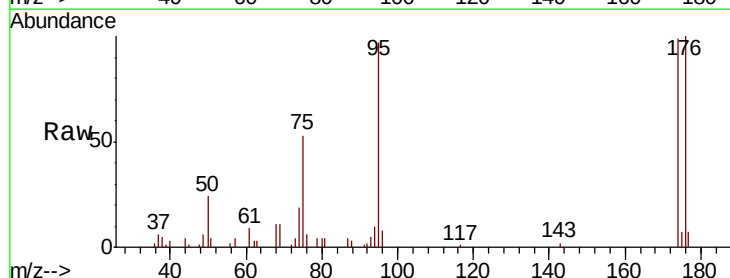
Tgt Ion: 95 Resp: 46397

Ion Ratio Lower Upper

95 100

174 102.4 0.0 167.0

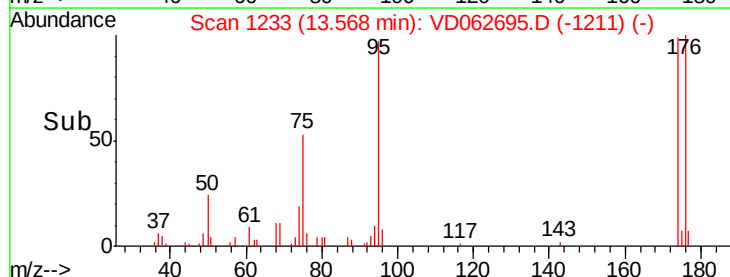
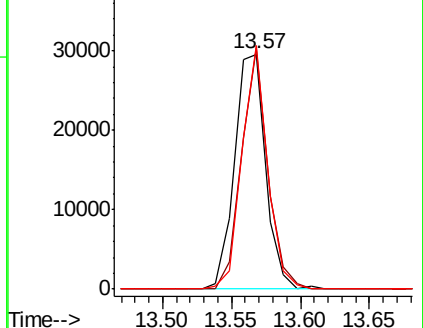
176 103.5 0.0 159.2

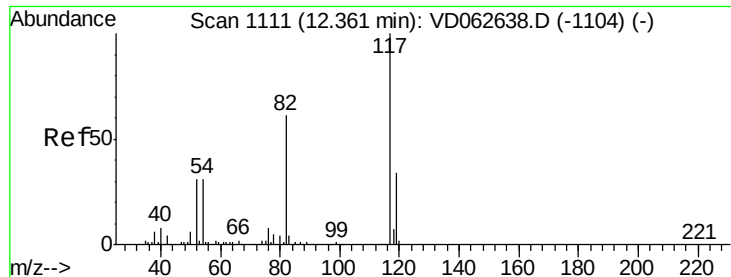


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

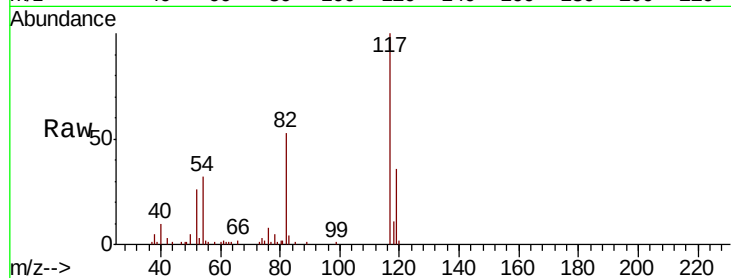




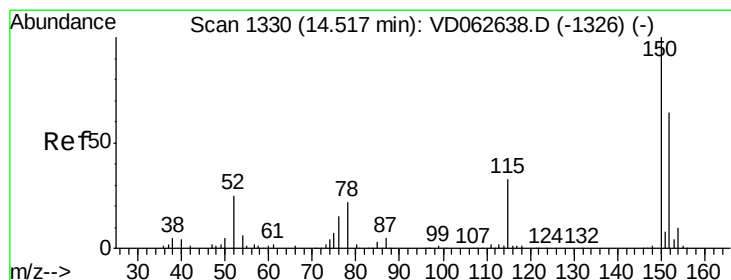
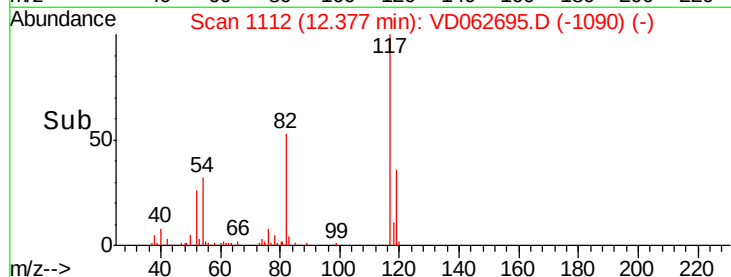
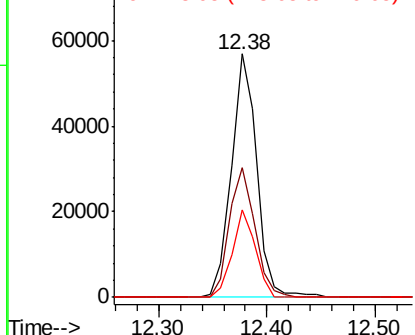
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1112
Delta R.T. 0.02 min
Lab File: VD062695.D
Acq: 13 Jun 2019 15:39

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 92811
Ion Ratio Lower Upper
117 100
82 53.3 48.7 73.1
119 36.1 27.0 40.6

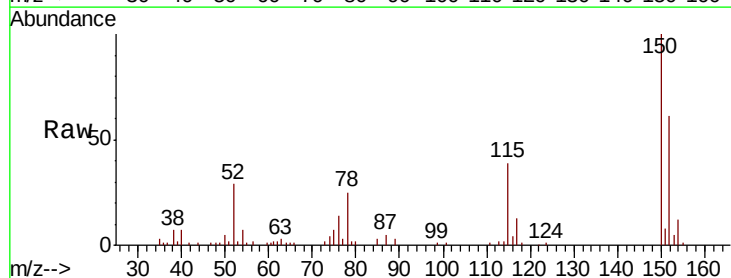


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

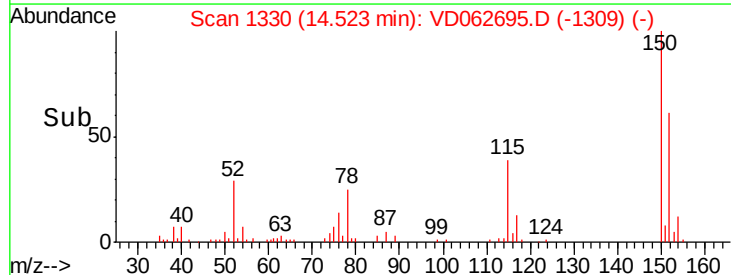
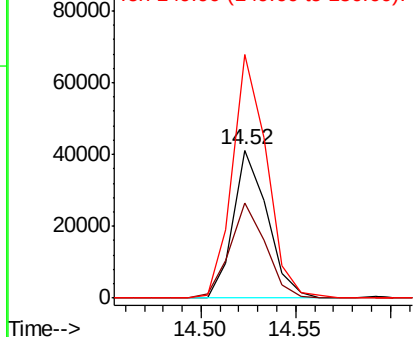


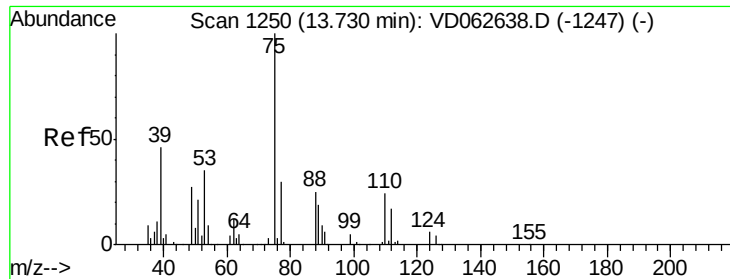
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.01 min
Lab File: VD062695.D
Acq: 13 Jun 2019 15:39

Tgt Ion:152 Resp: 51018
Ion Ratio Lower Upper
152 100
115 63.9 30.1 90.5
150 164.6 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: 32.332 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. -0.17 min

Lab File: VD062695.D

Acq: 13 Jun 2019 15:39

Instrument :

MSVOA_D

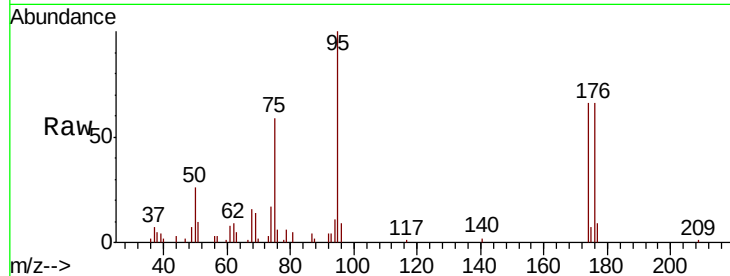
ClientSampleId :

Tot Ion: 75 Resp: 22366

Ion Ratio Lower Upper

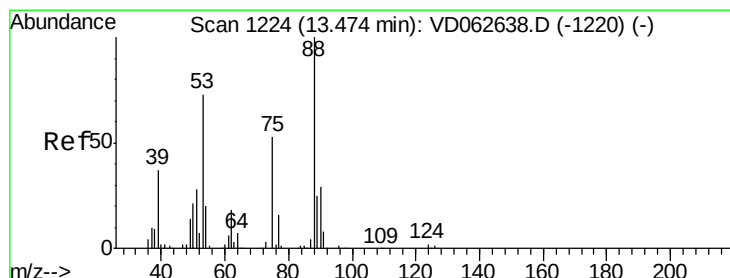
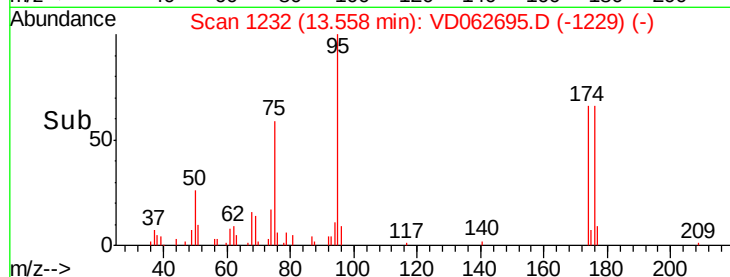
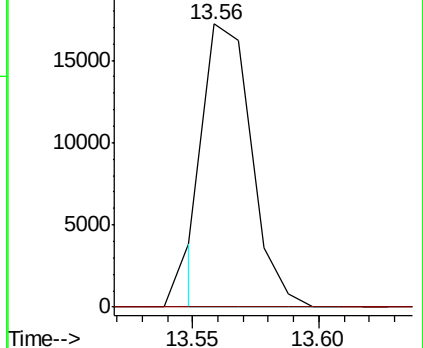
75 100

77 0.0 16.2 48.6#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 114.694 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.09 min

Lab File: VD062695.D

Acq: 13 Jun 2019 15:39

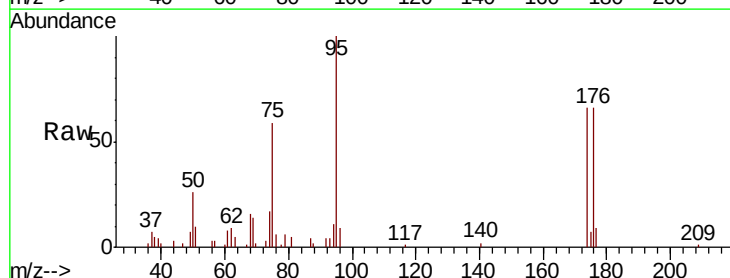
Tgt Ion: 75 Resp: 24650

Ion Ratio Lower Upper

75 100

53 0.0 109.4 164.2#

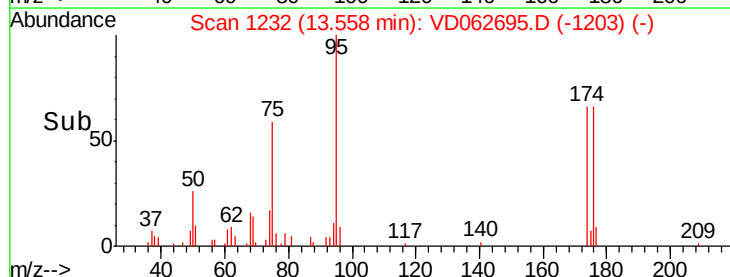
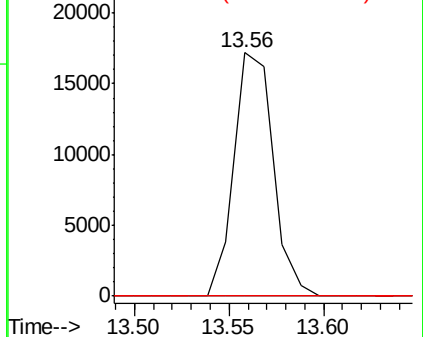
89 0.0 37.0 55.6#

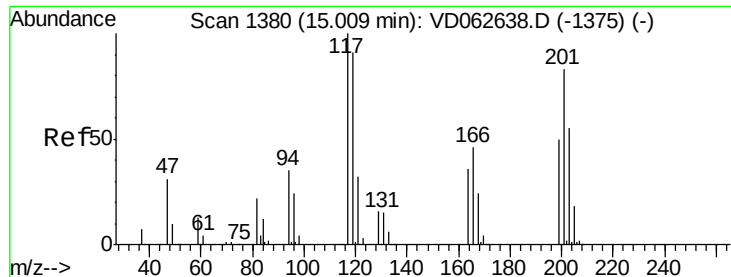


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#90

Hexachloroethane

Concen: 1.617 ug/l

RT: 15.14 min Scan# 1393

Delta R.T. 0.13 min

Lab File: VD062695.D

Acq: 13 Jun 2019 15:39

Instrument :

MSVOA_D

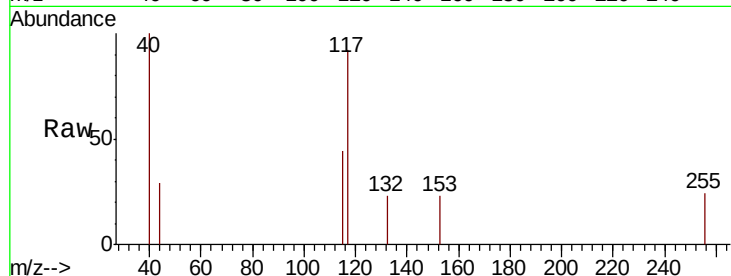
ClientSampled :

Tot Ion:117 Resp: 1528

Ion Ratio Lower Upper

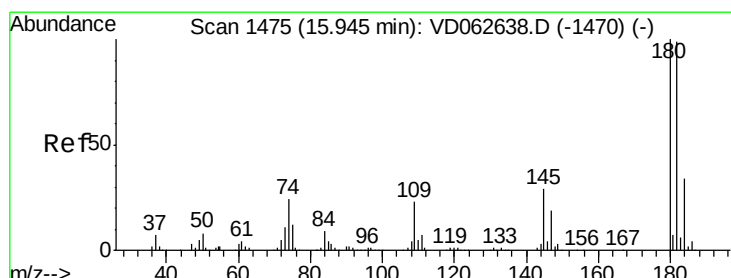
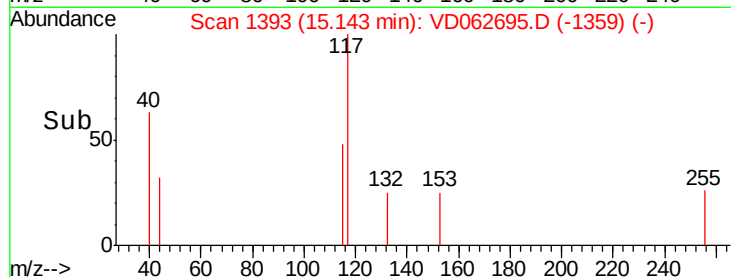
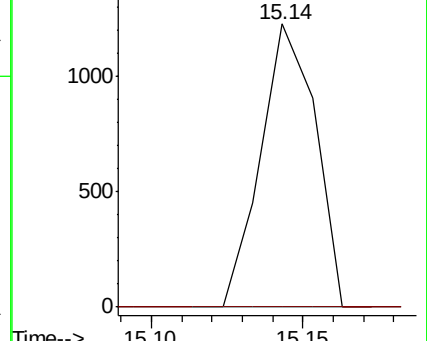
117 100

201 0.0 41.5 124.6#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V



#93

1,2,4-Trichlorobenzene

Concen: 3.722 ug/l

RT: 15.95 min Scan# 1475

Delta R.T. 0.01 min

Lab File: VD062695.D

Acq: 13 Jun 2019 15:39

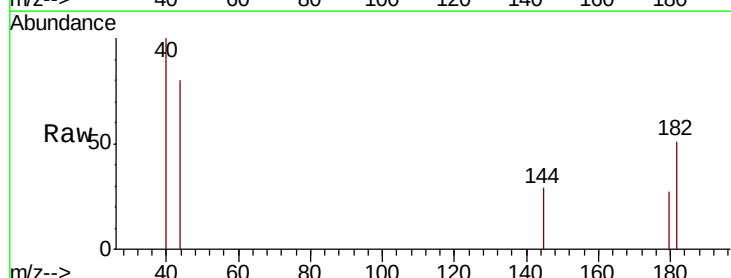
Tgt Ion:180 Resp: 217

Ion Ratio Lower Upper

180 100

182 192.9 49.4 148.2#

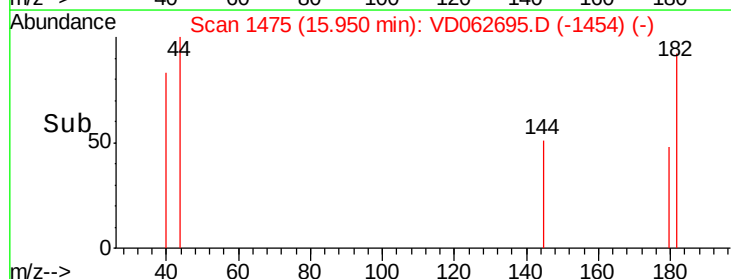
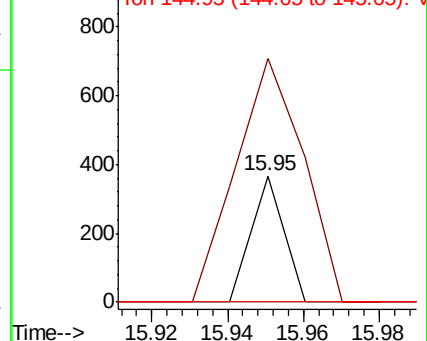
145 0.0 14.5 43.6#

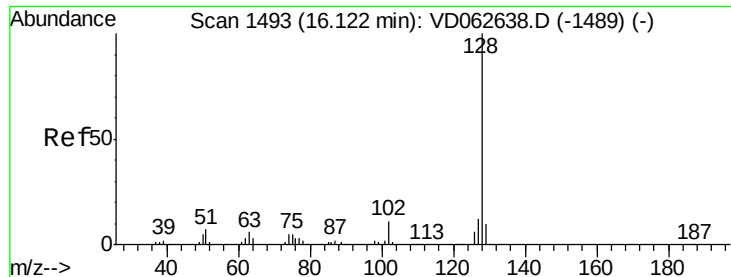


Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

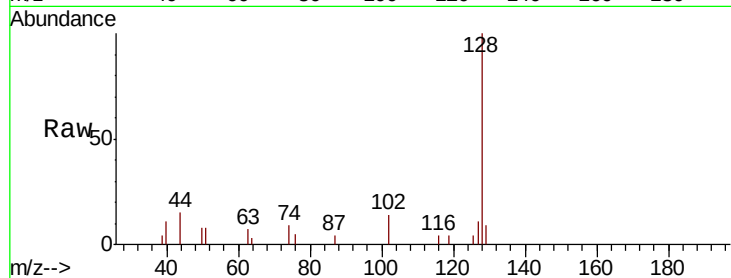




#95
Naphthalene
Concen: 8.616 ug/l
RT: 16.13 min Scan# 1493
Delta R.T. 0.01 min
Lab File: VD062695.D
Acq: 13 Jun 2019 15:39

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:128 Resp: 10273
Ion Ratio Lower Upper
128 100
127 11.4 9.7 14.5
129 9.3 8.1 12.1



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

