

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF050919\
 Data File : VF062402.D
 Acq On : 9 May 2019 18:14
 Operator : FY/SY
 Sample : K2641-03
 Misc : 6.95g/5mL/MSVOA_F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 CL-02-050719-B

Quant Time: May 10 01:54:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 04:34:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	273559	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.77	114	344204	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	180165	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.61	152	107452	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.02	65	213261	82.49	ug/l	0.00
Spiked Amount 50.000			Recovery	=	164.98%	
35) Dibromofluoromethane	4.30	113	217959	79.48	ug/l	0.00
Spiked Amount 50.000			Recovery	=	158.96%	
50) Toluene-d8	7.70	98	127510	19.21	ug/l	0.00
Spiked Amount 50.000			Recovery	=	38.42%	
62) 4-Bromofluorobenzene	11.48	95	113632	37.94	ug/l	0.00
Spiked Amount 50.000			Recovery	=	75.88%	

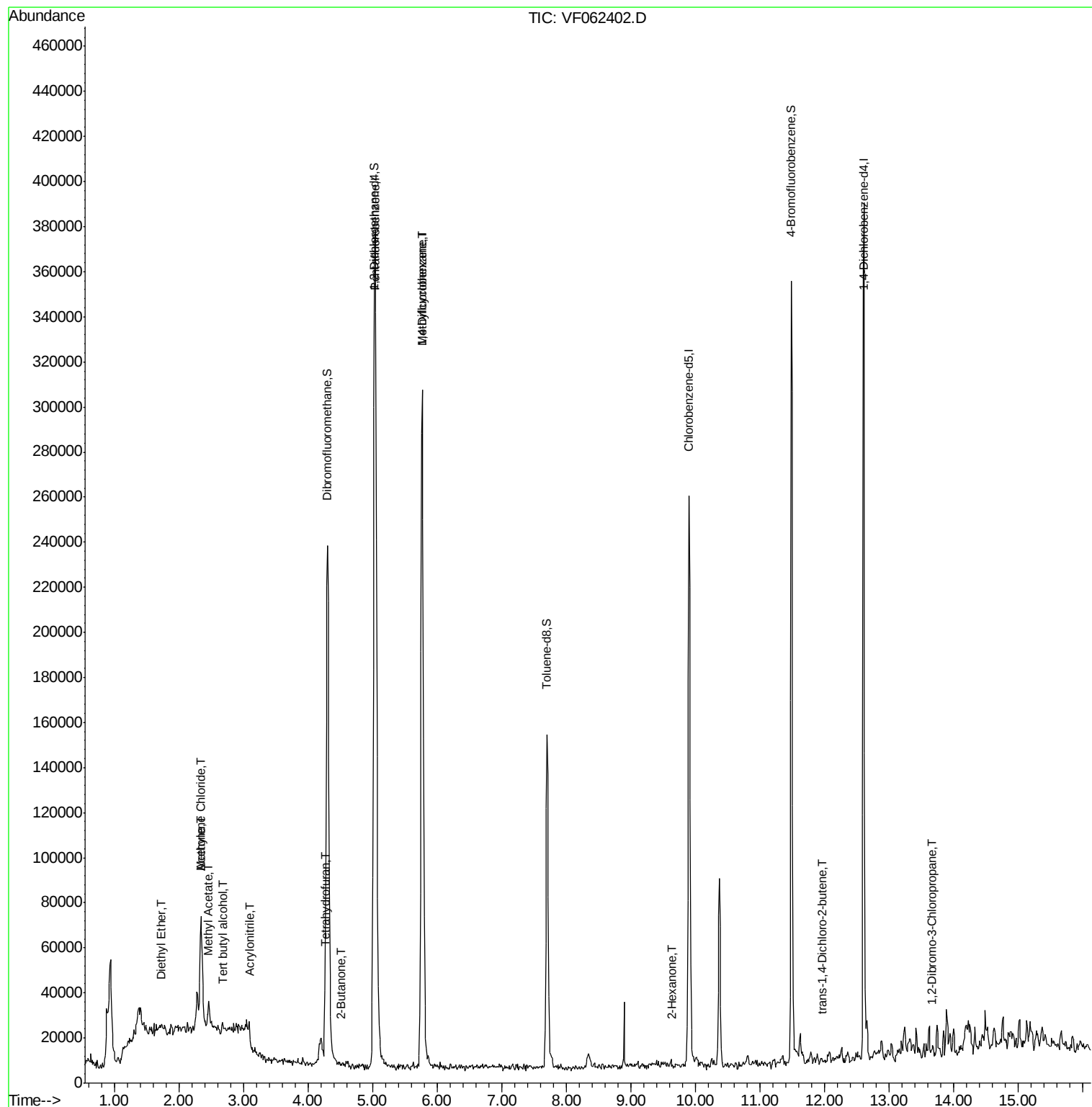
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.39	94	358	Below Cal	#	24
8) Diethyl Ether	1.72	74	1893	2.895	ug/l	93
11) Tert butyl alcohol	2.69	59	1876	12.840	ug/l #	1
13) Acrolein	2.09	56	708	Below Cal	#	57
15) Acrylonitrile	3.08	53	358	1.293	ug/l #	1
16) Acetone	2.34	43	58611	112.072	ug/l #	92
18) Methyl Acetate	2.46	43	17002	15.677	ug/l	98
20) Methylene Chloride	2.34	84	15037	7.947	ug/l #	92
25) 2-Butanone	4.51	43	858	1.306	ug/l #	41
29) Tetrahydrofuran	4.25	42	800	2.649	ug/l #	36
37) Ethyl Acetate	4.30	43	555	Below Cal	#	25
38) Carbon Tetrachloride	4.18	117	173	Below Cal	#	74
39) Methylcyclohexane	5.78	83	5278	1.780	ug/l #	39
49) 1,4-Dioxane	6.86	88	66	Below Cal	#	1
59) 2-Hexanone	9.64	43	1449	2.056	ug/l #	28
81) trans-1,4-Dichloro-2-buten	11.96	75	368	1.287	ug/l #	63
92) 1,2-Dibromo-3-Chloropropan	13.65	75	552	2.470	ug/l #	1

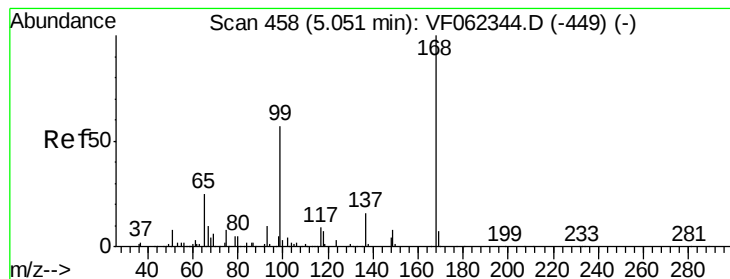
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue May 07 04:34:57 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 458

Delta R.T. -0.00 min

Lab File: VF062402.D

Acq: 9 May 2019 18:14

Instrument :

MSVOA_F

ClientSampleId :

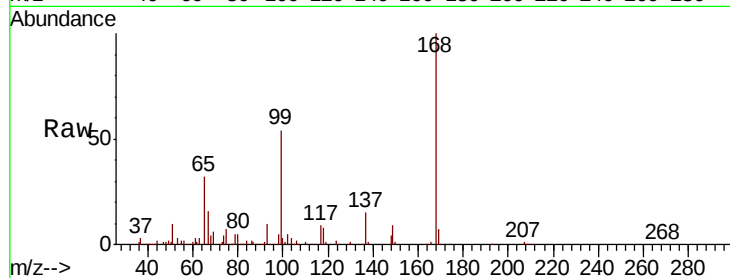
CL-02-050719-B

Tgt Ion:168 Resp: 273559

Ion Ratio Lower Upper

168 100

99 54.0 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.05

100000

80000

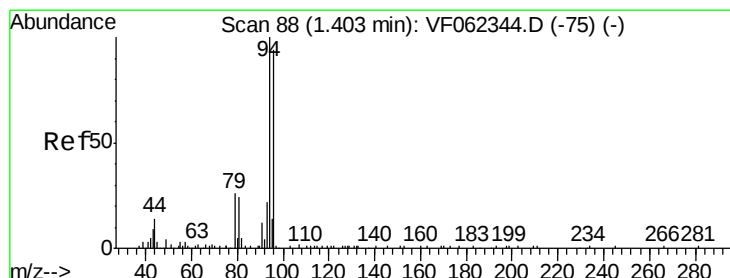
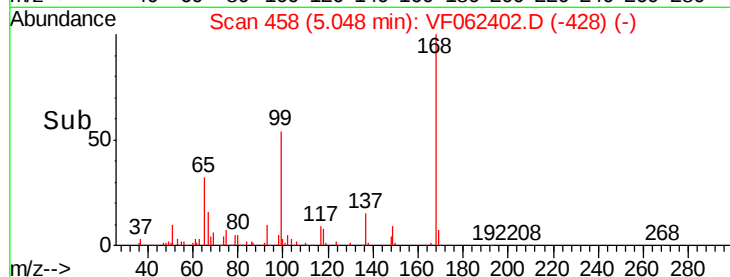
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.39 min Scan# 87

Delta R.T. -0.01 min

Lab File: VF062402.D

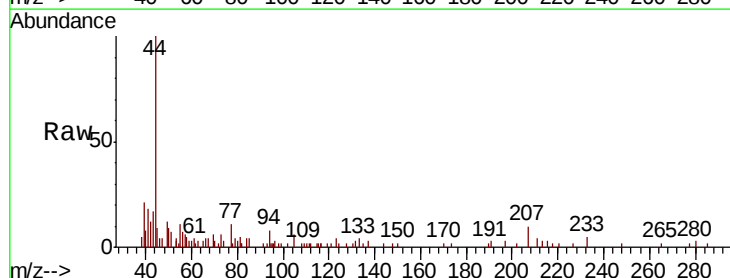
Acq: 9 May 2019 18:14

Tgt Ion: 94 Resp: 358

Ion Ratio Lower Upper

94 100

96 20.4 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

1.39

500

400

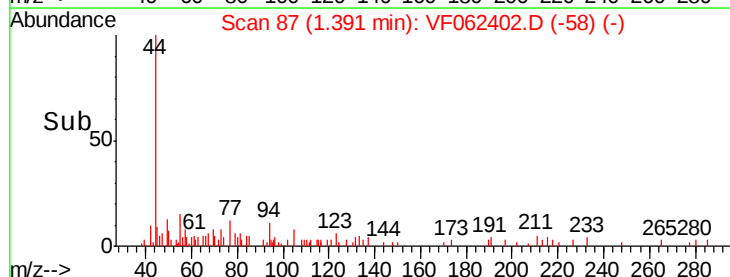
300

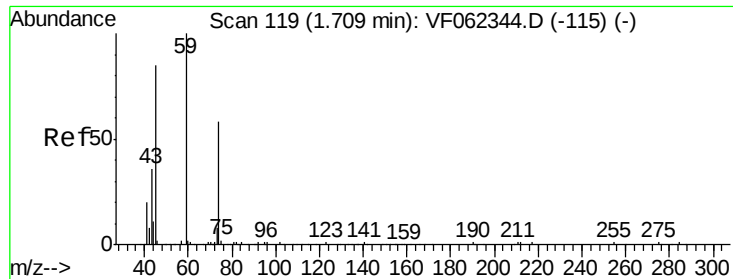
200

100

0

Time-->

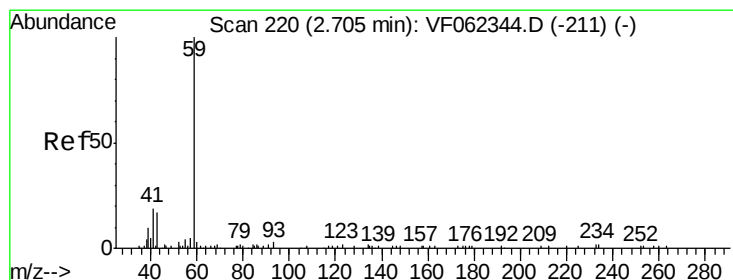
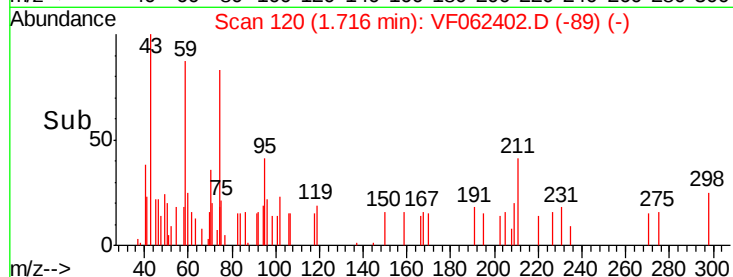
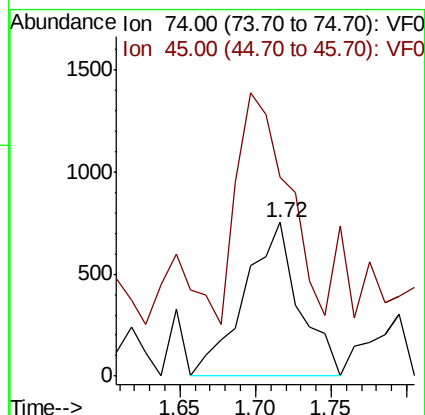
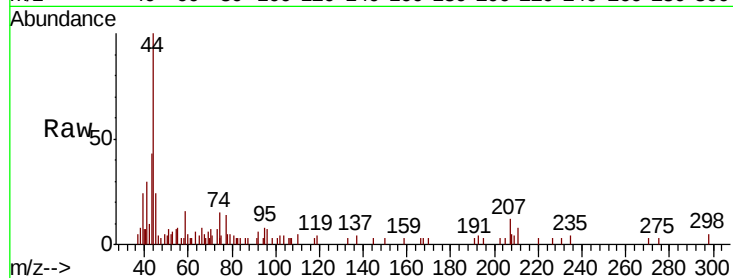




#8
Diethyl Ether
Concen: 2.895 ug/l
RT: 1.72 min Scan# 120
Delta R.T. 0.01 min
Lab File: VF062402.D
Acq: 9 May 2019 18:14

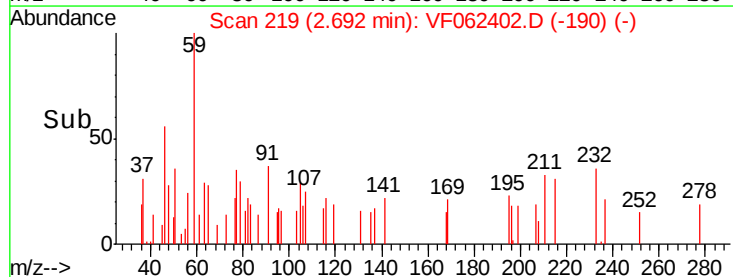
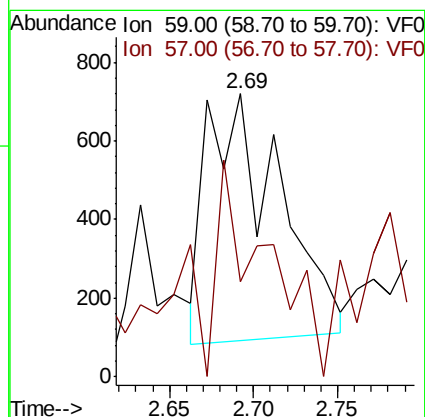
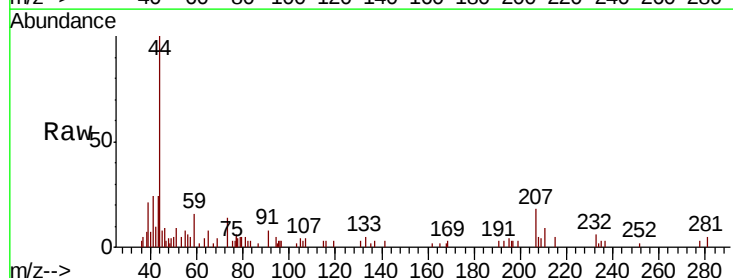
Instrument :
MSVOA_F
ClientSampleId :
CL-02-050719-B

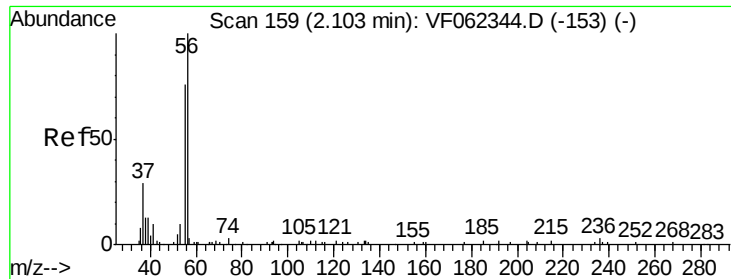
Tgt Ion: 74 Resp: 1893
Ion Ratio Lower Upper
74 100
45 139.0 73.9 221.6



#11
Tert butyl alcohol
Concen: 12.840 ug/l
RT: 2.69 min Scan# 219
Delta R.T. -0.01 min
Lab File: VF062402.D
Acq: 9 May 2019 18:14

Tgt Ion: 59 Resp: 1876
Ion Ratio Lower Upper
59 100
57 60.1 9.3 13.9#

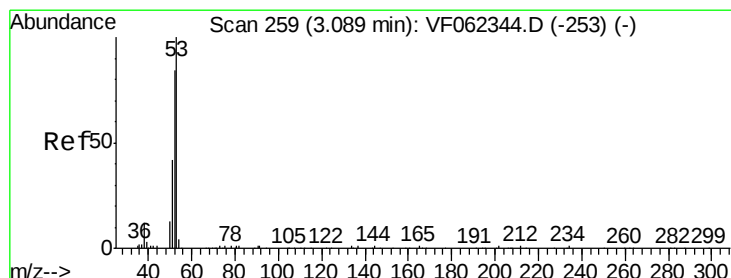
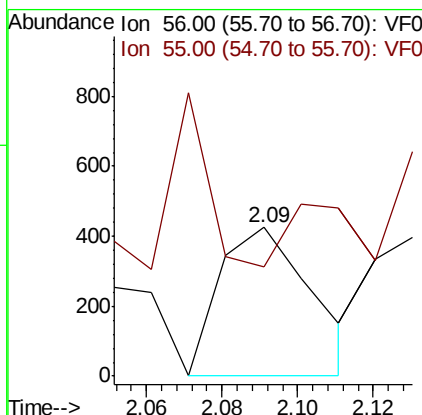
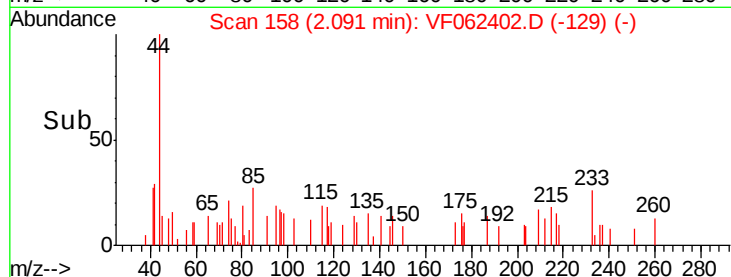
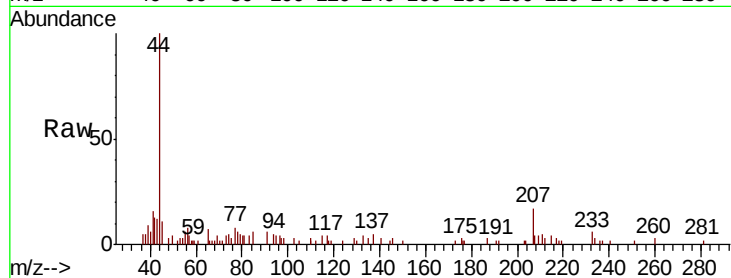




#13
Acrolein
Concen: Below Cal
RT: 2.09 min Scan# 158
Delta R.T. -0.01 min
Lab File: VF062402.D
Acq: 9 May 2019 18:14

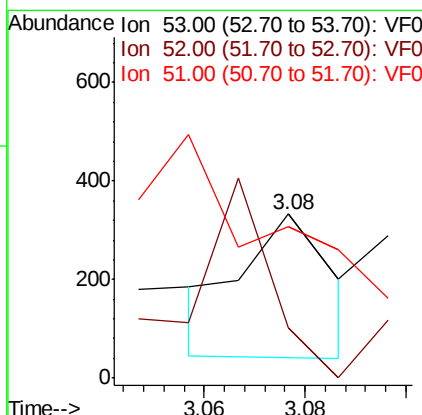
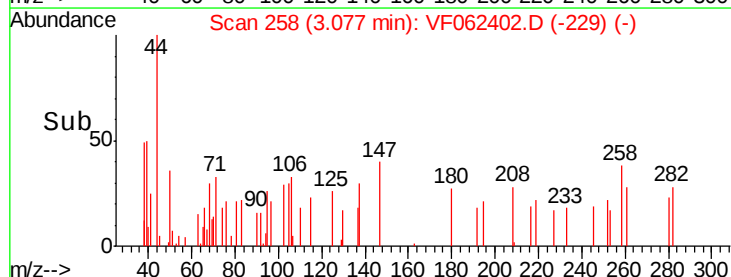
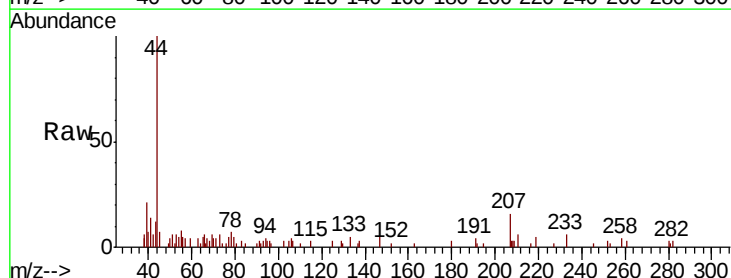
Instrument :
MSVOA_F
ClientSampleId :
CL-02-050719-B

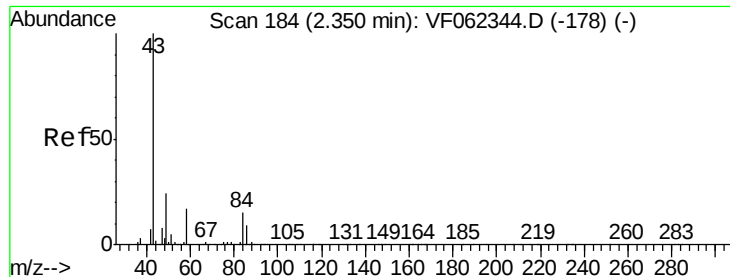
Tgt Ion: 56 Resp: 708
Ion Ratio Lower Upper
56 100
55 36.7 58.4 87.6#



#15
Acrylonitrile
Concen: 1.293 ug/l
RT: 3.08 min Scan# 258
Delta R.T. -0.01 min
Lab File: VF062402.D
Acq: 9 May 2019 18:14

Tgt Ion: 53 Resp: 358
Ion Ratio Lower Upper
53 100
52 122.6 77.2 115.8#
51 328.8 40.6 61.0#





#16

Acetone

Concen: 112.072 ug/l

RT: 2.34 min Scan# 183

Delta R.T. -0.01 min

Lab File: VF062402.D

Acq: 9 May 2019 18:14

Instrument :

MSVOA_F

ClientSampleId :

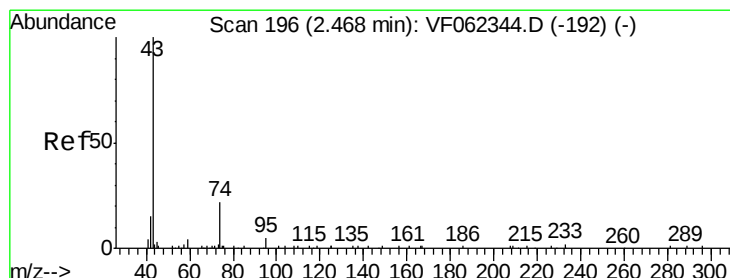
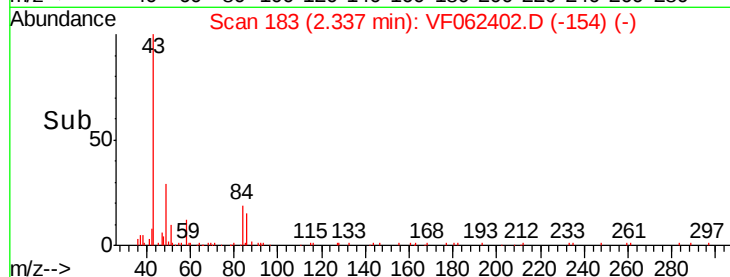
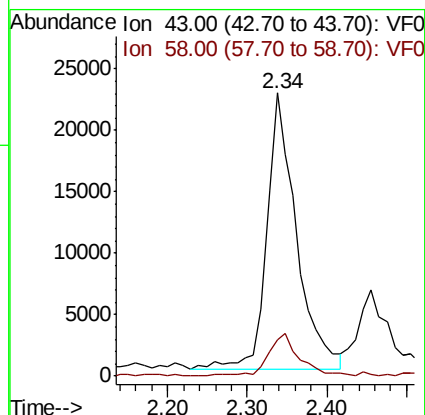
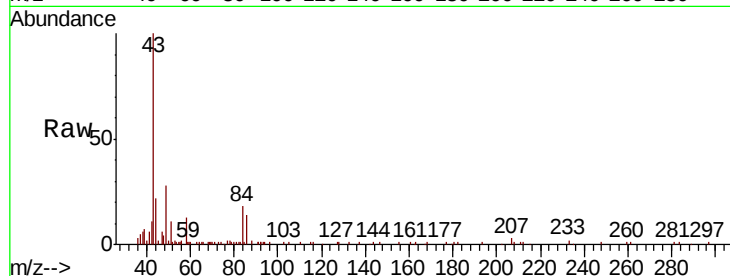
CL-02-050719-B

Tgt Ion: 43 Resp: 58611

Ion Ratio Lower Upper

43 100

58 13.0 13.1 19.7#



#18

Methyl Acetate

Concen: 15.677 ug/l

RT: 2.46 min Scan# 195

Delta R.T. -0.01 min

Lab File: VF062402.D

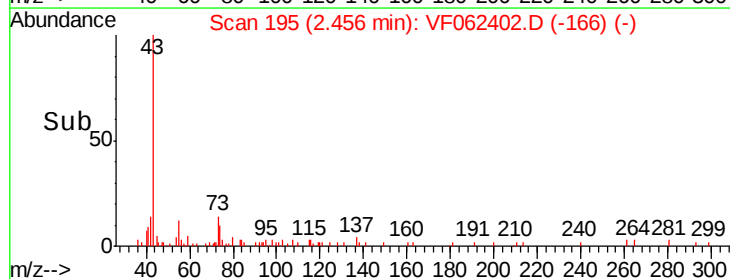
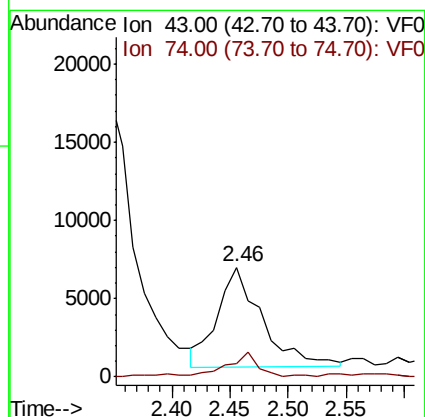
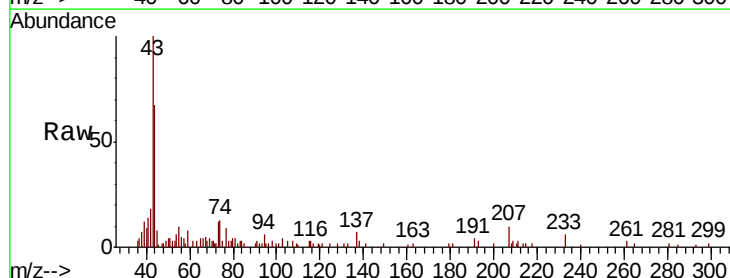
Acq: 9 May 2019 18:14

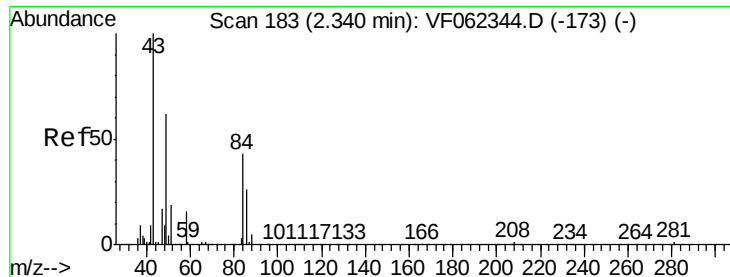
Tgt Ion: 43 Resp: 17002

Ion Ratio Lower Upper

43 100

74 19.7 15.0 22.4

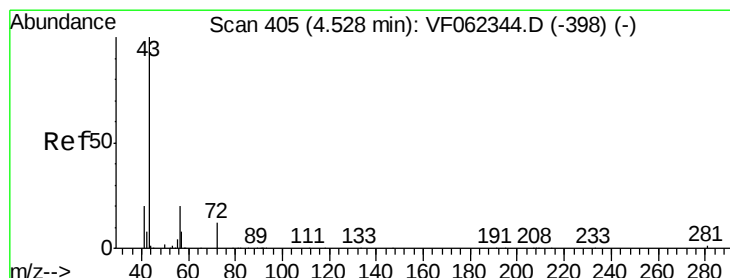
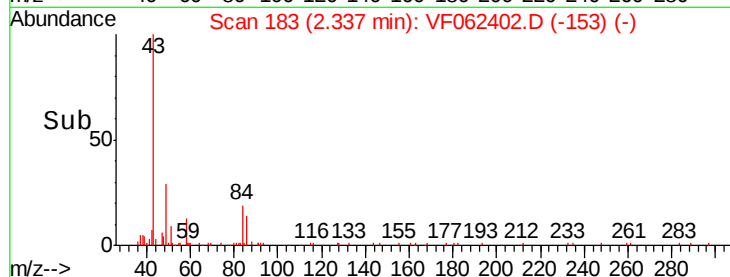
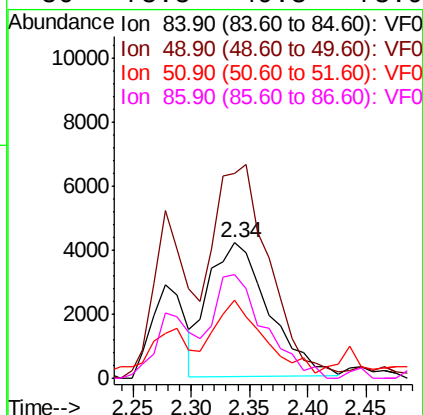
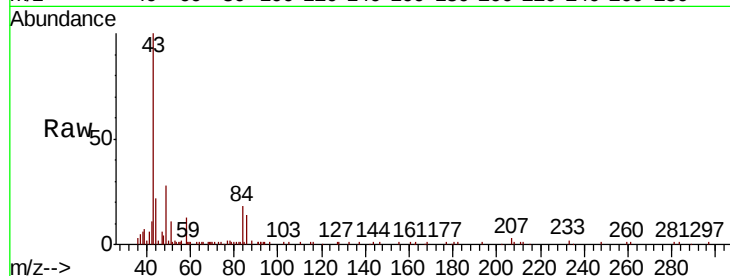




#20
Methylene Chloride
Concen: 7.947 ug/l
RT: 2.34 min Scan# 183
Delta R.T. -0.00 min
Lab File: VF062402.D
Acq: 9 May 2019 18:14

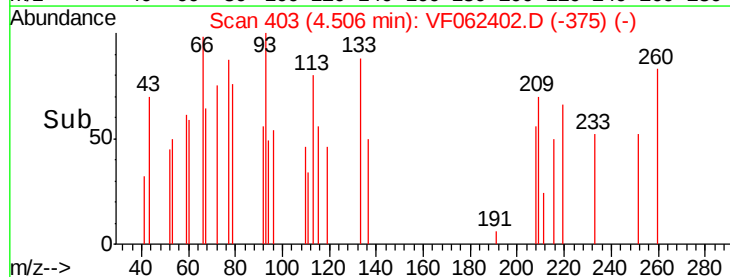
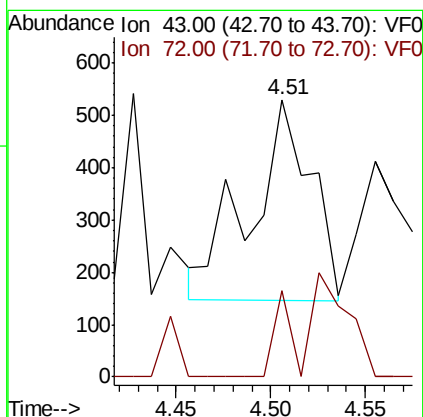
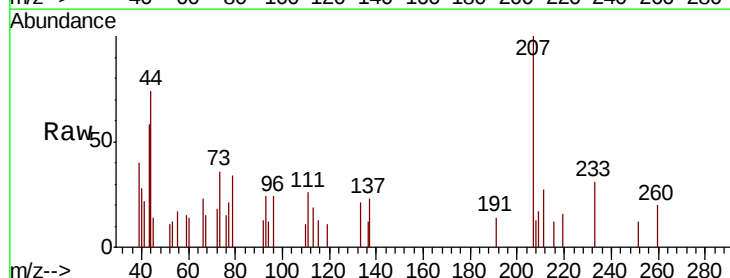
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ClientSampleId :
CL-02-050719-B

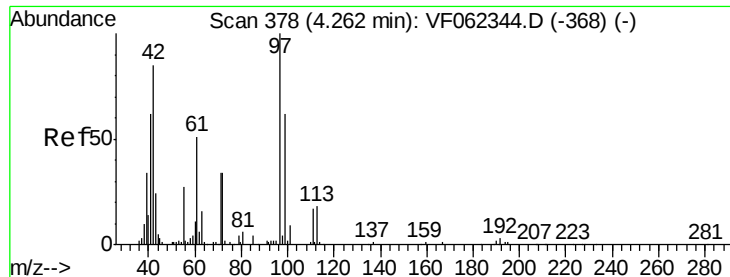
Tgt Ion: 84 Resp: 15037
Ion Ratio Lower Upper
84 100
49 151.9 117.5 176.3
51 48.6 37.0 55.4
86 78.8 49.3 73.9#



#25
2-Butanone
Concen: 1.306 ug/l
RT: 4.51 min Scan# 403
Delta R.T. -0.02 min
Lab File: VF062402.D
Acq: 9 May 2019 18:14

Tgt Ion: 43 Resp: 858
Ion Ratio Lower Upper
43 100
72 43.9 14.2 21.4#





#29

Tetrahydrofuran

Concen: 2.649 ug/l

RT: 4.25 min Scan# 377

Delta R.T. -0.01 min

Lab File: VF062402.D

Acq: 9 May 2019 18:14

Instrument :

MSVOA_F

ClientSampleId :

CL-02-050719-B

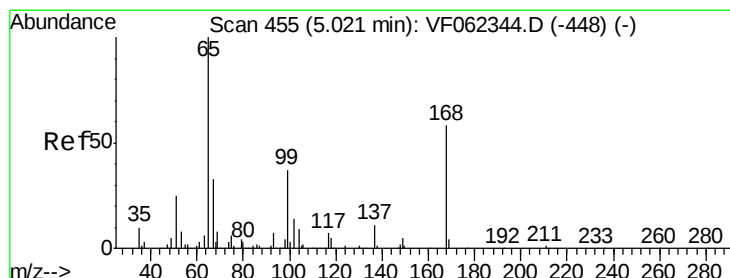
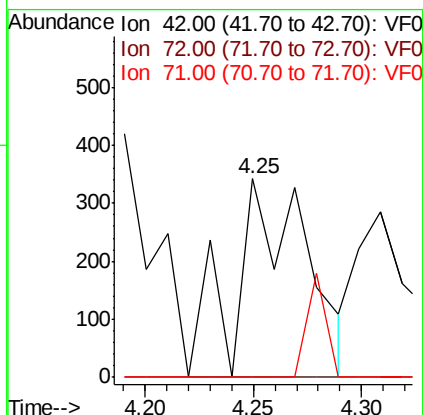
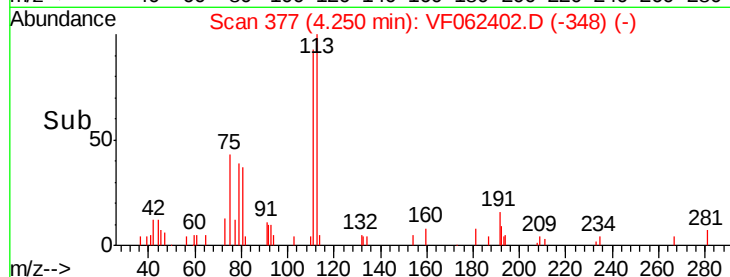
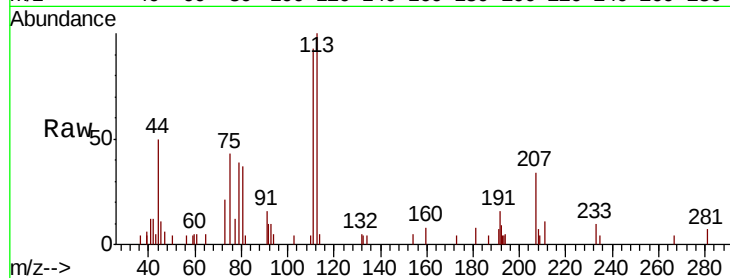
Tgt Ion: 42 Resp: 800

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

71 0.0 31.7 47.5#



#33

1,2-Dichloroethane-d4

Concen: 82.491 ug/l

RT: 5.02 min Scan# 455

Delta R.T. -0.00 min

Lab File: VF062402.D

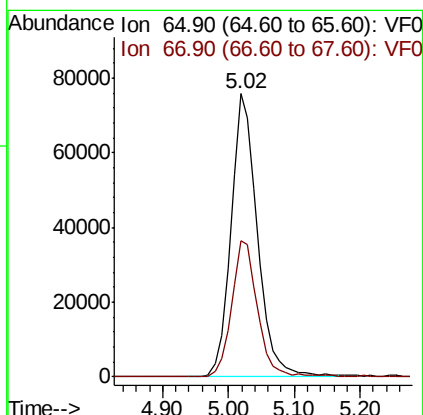
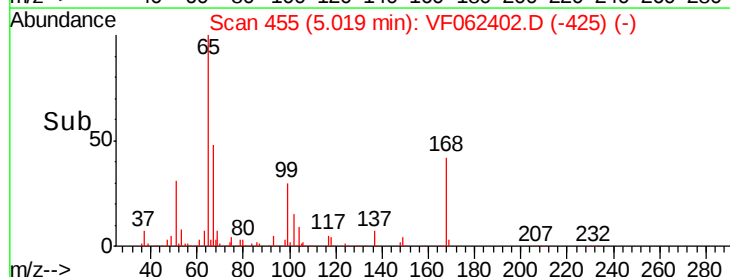
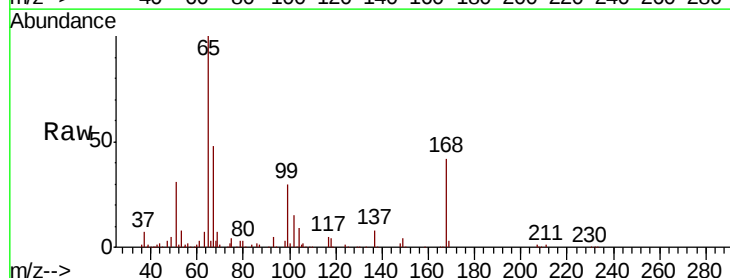
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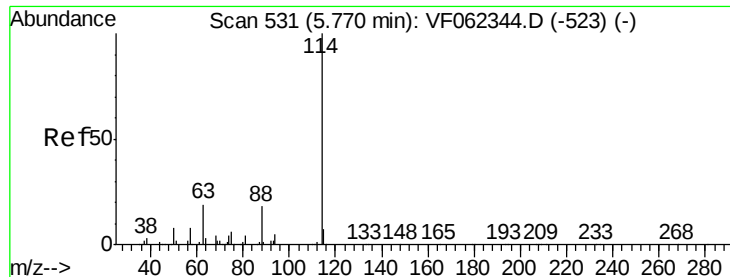
Tgt Ion: 65 Resp: 213261

Ion Ratio Lower Upper

65 100

67 47.2 0.0 85.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.77 min Scan# 531

Delta R.T. -0.00 min

Lab File: VF062402.D

Acq: 9 May 2019 18:14

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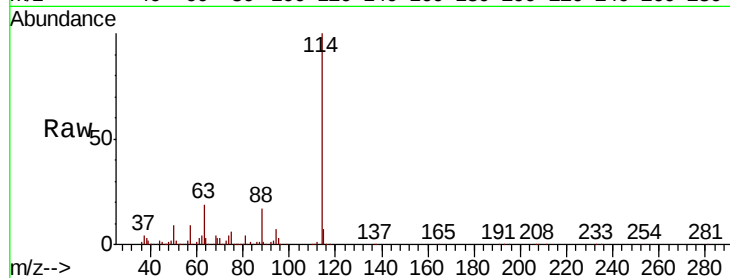
Tgt Ion:114 Resp: 344204

Ion Ratio Lower Upper

114 100

63 19.0 0.0 37.4

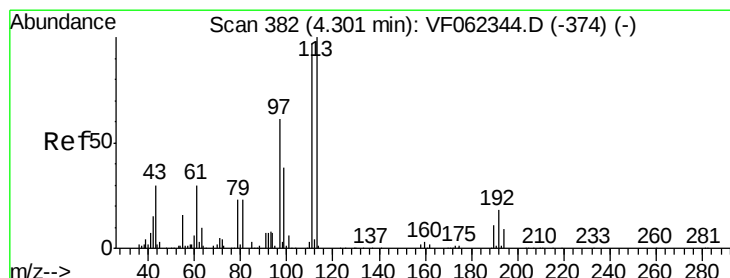
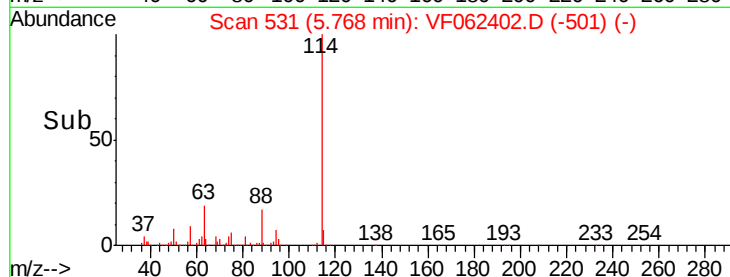
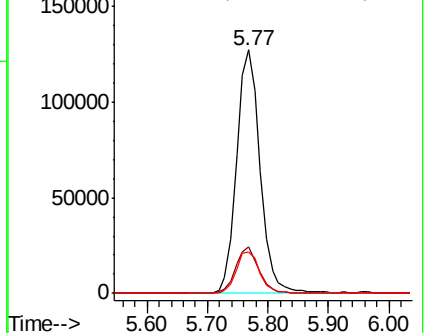
88 16.8 0.0 36.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 87.90 (87.60 to 88.60): VF0



#35

Dibromofluoromethane

Concen: 79.483 ug/l

RT: 4.30 min Scan# 382

Delta R.T. -0.00 min

Lab File: VF062402.D

Acq: 9 May 2019 18:14

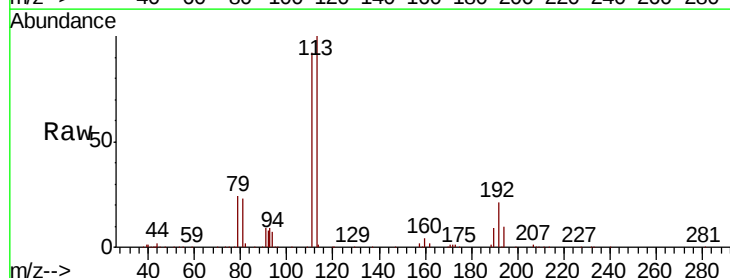
Tgt Ion:113 Resp: 217959

Ion Ratio Lower Upper

113 100

111 96.2 79.4 119.0

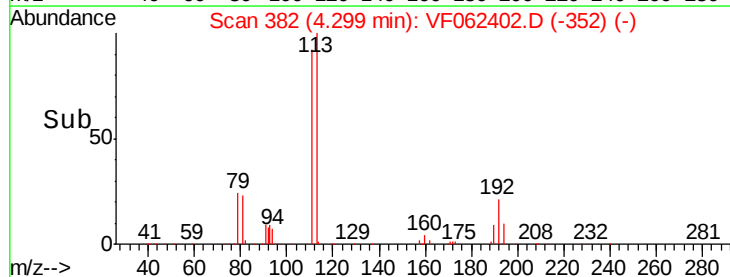
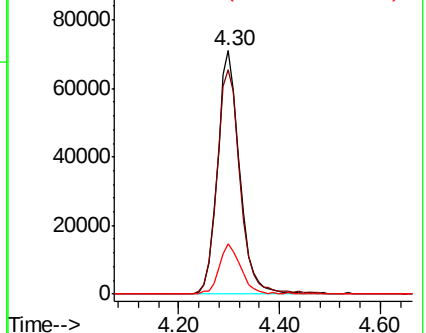
192 19.9 16.0 24.0

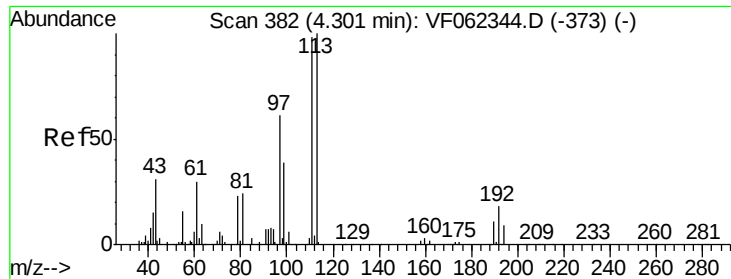


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

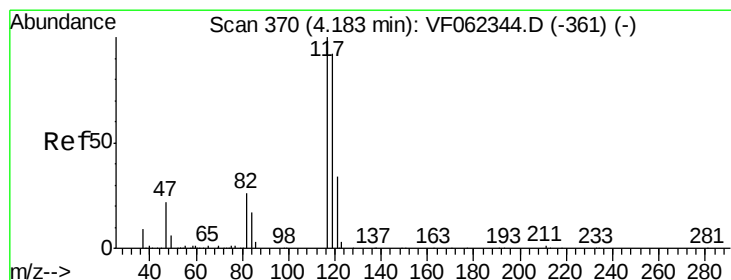
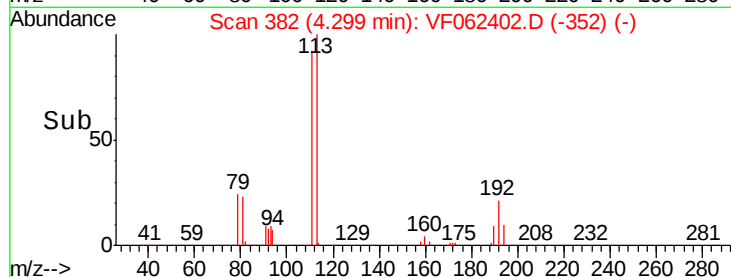
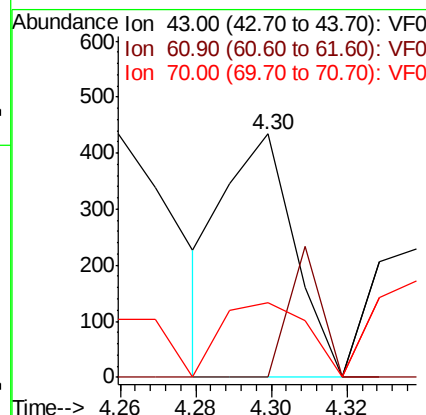
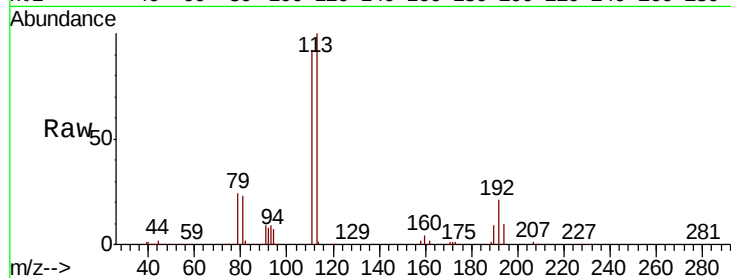




#37
Ethyl Acetate
Concen: Below Cal
RT: 4.30 min Scan# 382
Delta R.T. -0.00 min
Lab File: VF062402.D
Acq: 9 May 2019 18:14

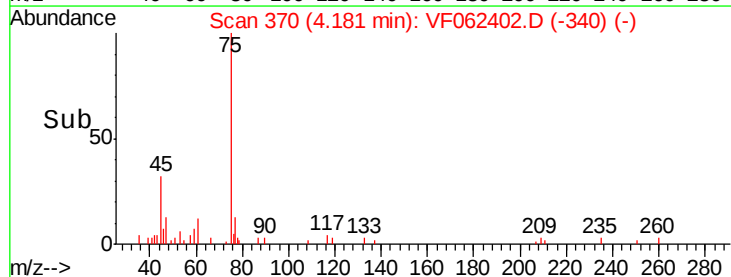
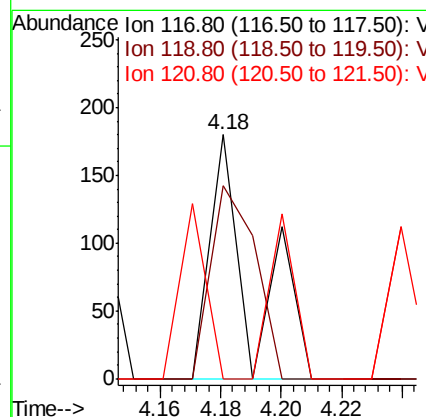
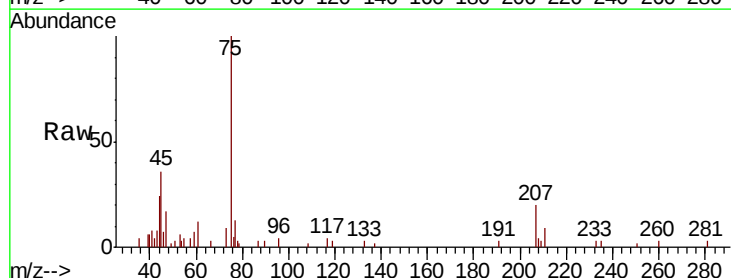
Instrument :
MSVOA_F
ClientSampleId :
CL-02-050719-B

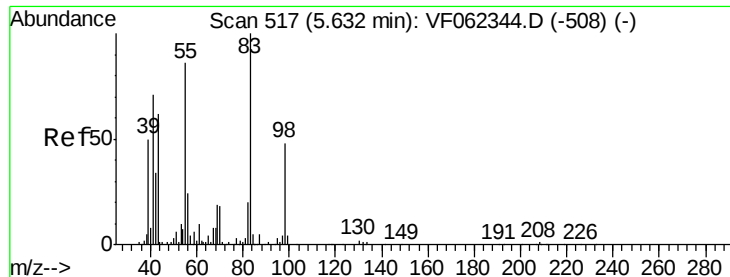
Tgt Ion: 43 Resp: 555
Ion Ratio Lower Upper
43 100
61 24.9 0.0 0.0#
70 38.0 8.2 12.2#



#38
Carbon Tetrachloride
Concen: Below Cal
RT: 4.18 min Scan# 370
Delta R.T. -0.00 min
Lab File: VF062402.D
Acq: 9 May 2019 18:14

Tgt Ion: 117 Resp: 173
Ion Ratio Lower Upper
117 100
119 78.9 73.4 110.2
121 0.0 27.4 41.0#

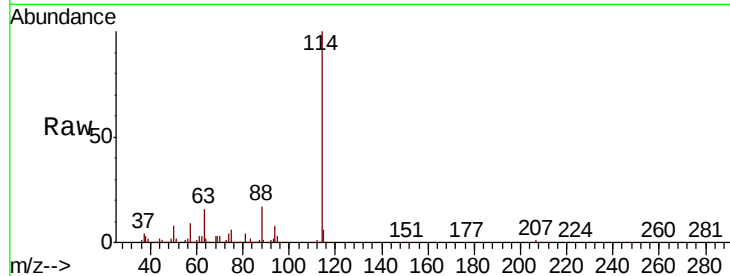




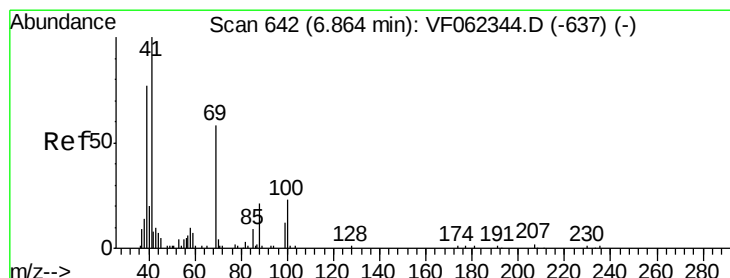
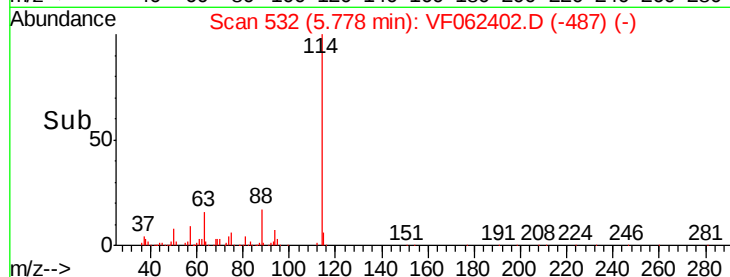
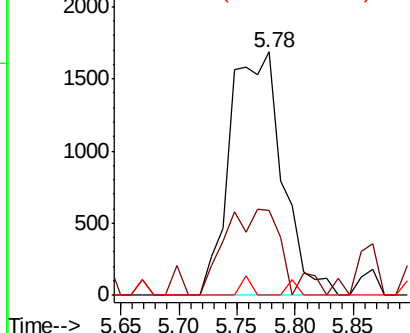
#39
Methylcyclohexane
Concen: 1.780 ug/l
RT: 5.78 min Scan# 532
Delta R.T. 0.15 min
Lab File: VF062402.D
Acq: 9 May 2019 18:14

Instrument :
MSVOA_F
ClientSampleId :
CL-02-050719-B

Tgt Ion: 83 Resp: 5278
Ion Ratio Lower Upper
83 100
55 35.1 69.0 103.6#
98 0.0 38.6 58.0#

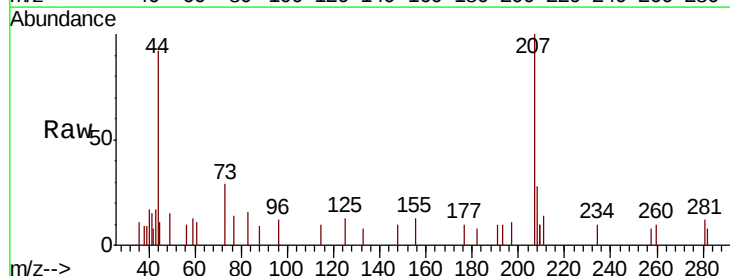


Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 98.00 (97.70 to 98.70): VF0

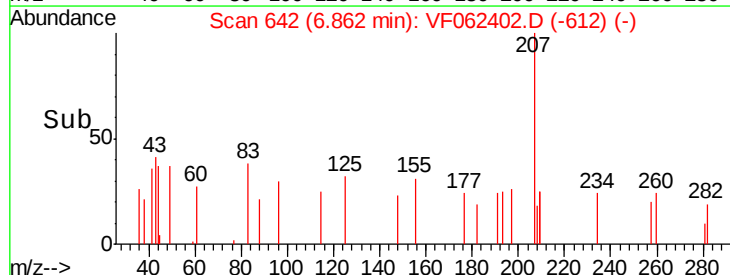
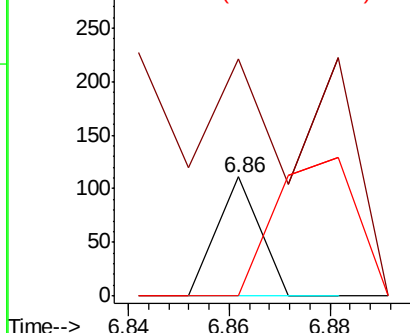


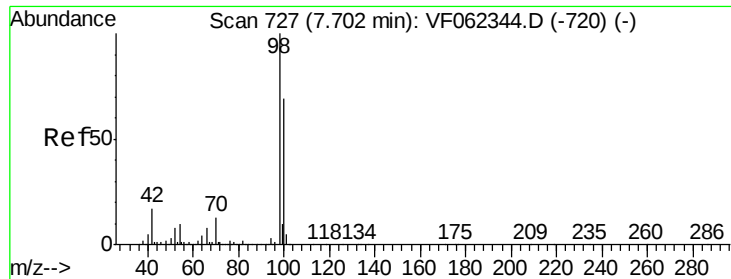
#49
1,4-Dioxane
Concen: Below Cal
RT: 6.86 min Scan# 642
Delta R.T. -0.00 min
Lab File: VF062402.D
Acq: 9 May 2019 18:14

Tgt Ion: 88 Resp: 66
Ion Ratio Lower Upper
88 100
43 0.0 55.6 83.4#
58 216.7 52.8 79.2#



Abundance Ion 88.00 (87.70 to 88.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0

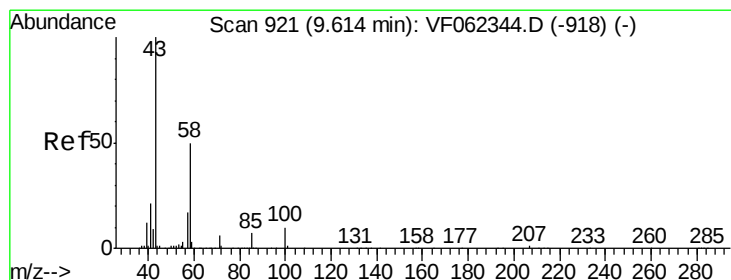
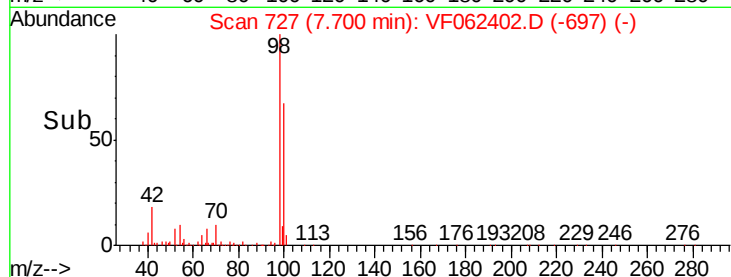
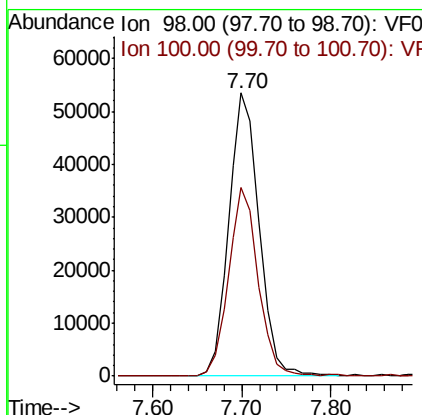
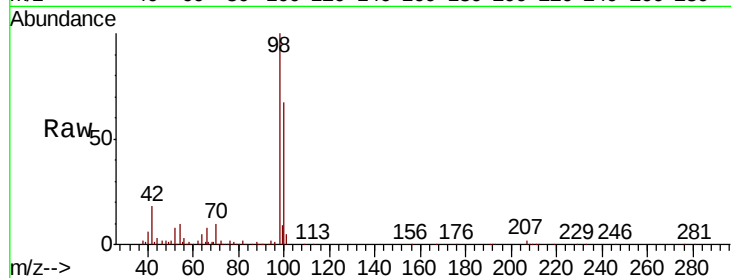




#50
Toluene-d8
Concen: 19.209 ug/l
RT: 7.70 min Scan# 727
Delta R.T. -0.00 min
Lab File: VF062402.D
Acq: 9 May 2019 18:14

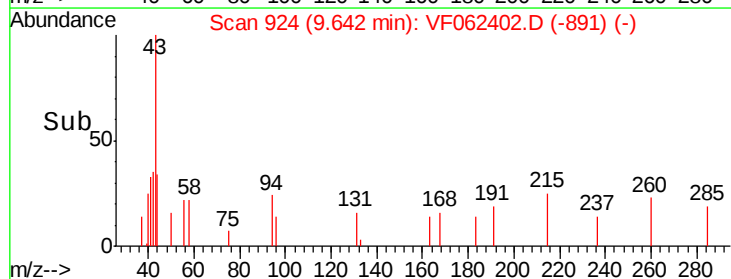
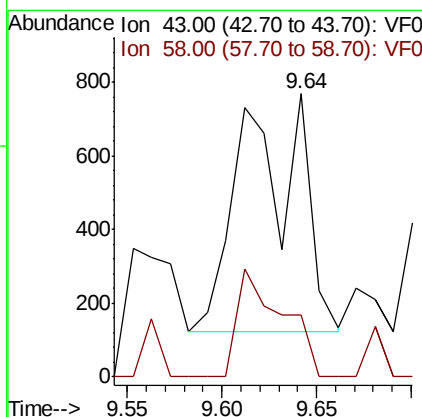
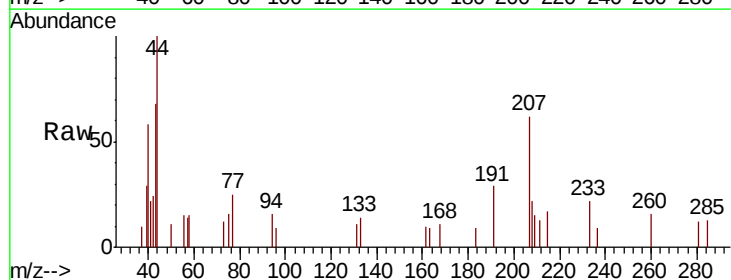
Instrument :
MSVOA_F
ClientSampleId :
CL-02-050719-B

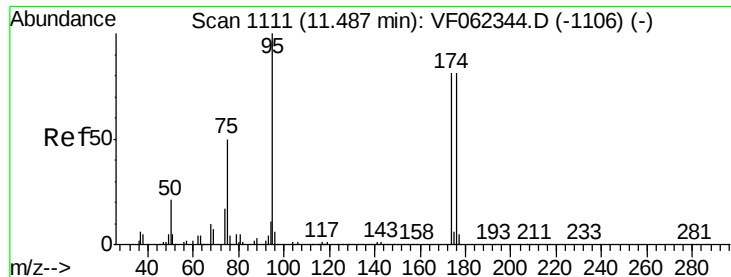
Tgt Ion: 98 Resp: 127510
Ion Ratio Lower Upper
98 100
100 65.4 53.3 79.9



#59
2-Hexanone
Concen: 2.056 ug/l
RT: 9.64 min Scan# 924
Delta R.T. 0.03 min
Lab File: VF062402.D
Acq: 9 May 2019 18:14

Tgt Ion: 43 Resp: 1449
Ion Ratio Lower Upper
43 100
58 0.0 24.3 73.0#





#62

4-Bromofluorobenzene

Concen: 37.943 ug/l

RT: 11.48 min Scan# 1111

Delta R.T. -0.00 min

Lab File: VF062402.D

Acq: 9 May 2019 18:14

Instrument :

MSVOA_F

ClientSampleId :

CL-02-050719-B

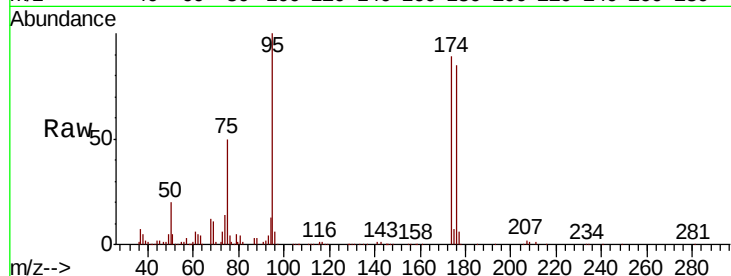
Tgt Ion: 95 Resp: 113632

Ion Ratio Lower Upper

95 100

174 100.1 0.0 191.8

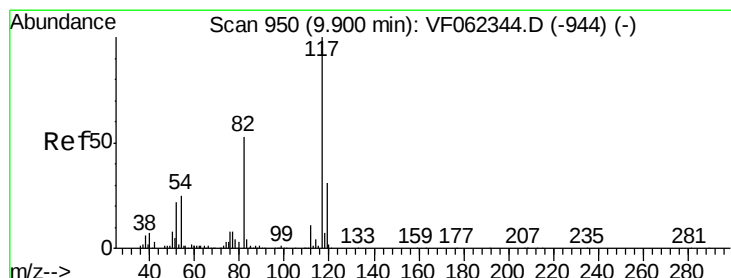
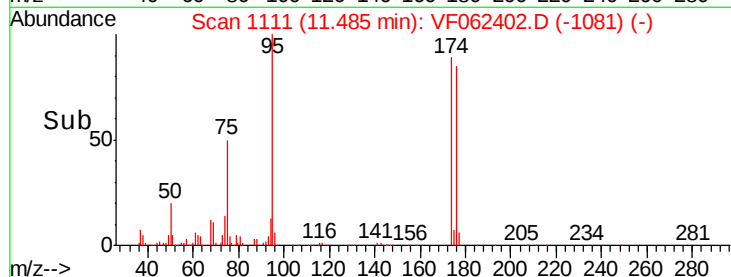
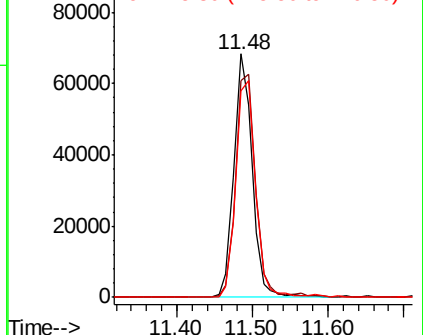
176 95.5 0.0 193.2



Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): VF0

Ion 175.80 (175.50 to 176.50): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.90 min Scan# 950

Delta R.T. -0.00 min

Lab File: VF062402.D

Acq: 9 May 2019 18:14

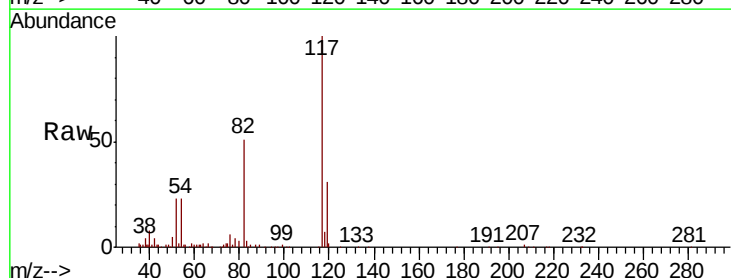
Tgt Ion: 117 Resp: 180165

Ion Ratio Lower Upper

117 100

82 50.9 42.2 63.2

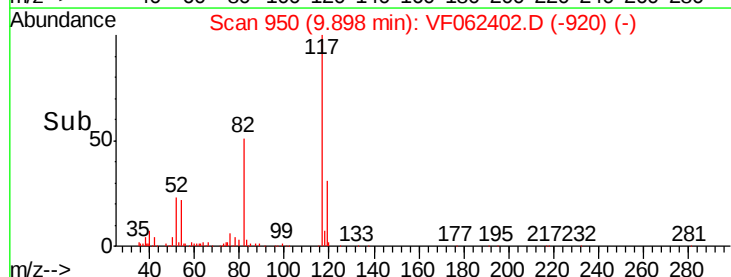
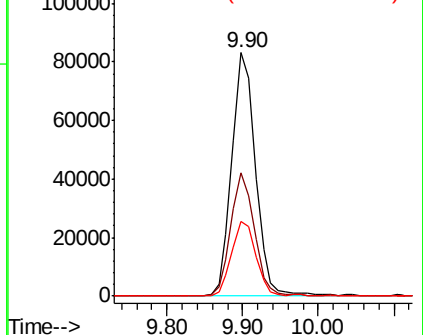
119 30.8 25.0 37.4

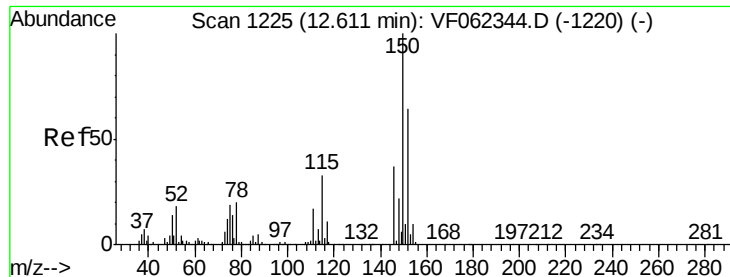


Abundance Ion 116.90 (116.60 to 117.60): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 118.90 (118.60 to 119.60): VF0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.61 min Scan# 1225

Delta R.T. -0.00 min

Lab File: VF062402.D

Acq: 9 May 2019 18:14

Instrument :

MSVOA_F

ClientSampleId :

CL-02-050719-B

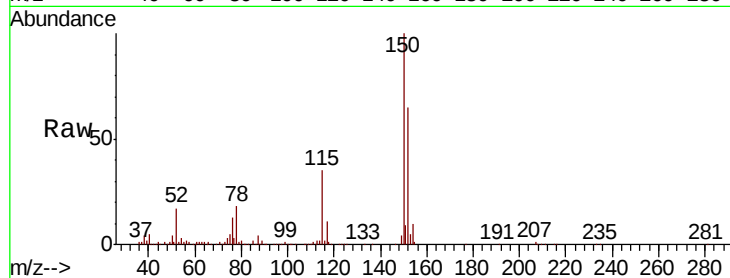
Tgt Ion: 152 Resp: 107452

Ion Ratio Lower Upper

152 100

115 55.4 26.4 79.2

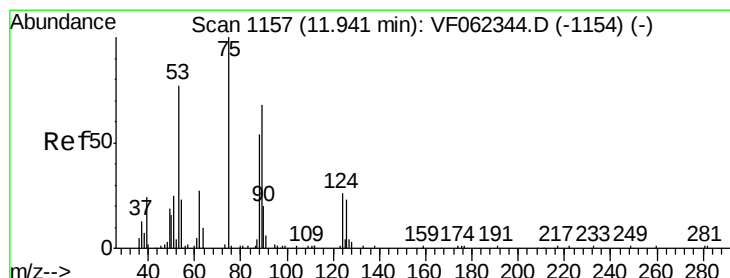
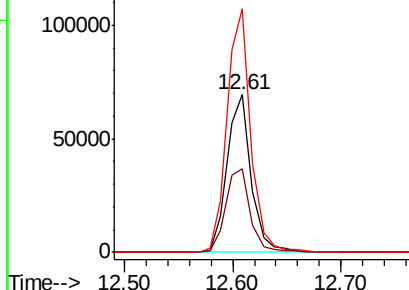
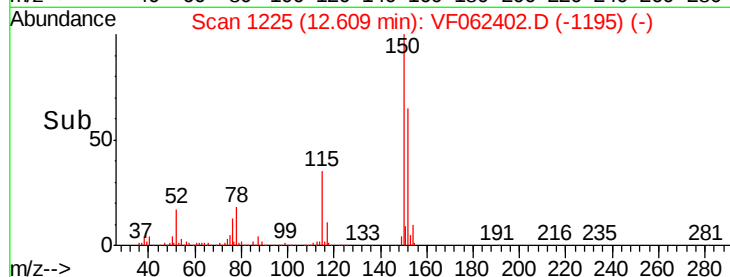
150 151.5 0.0 335.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#81

trans-1,4-Dichloro-2-butene

Concen: 1.287 ug/l

RT: 11.96 min Scan# 1159

Delta R.T. 0.02 min

Lab File: VF062402.D

Acq: 9 May 2019 18:14

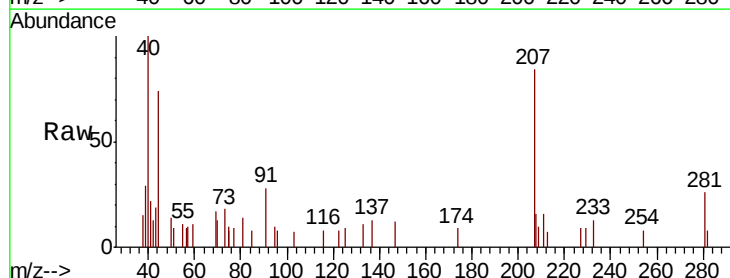
Tgt Ion: 75 Resp: 368

Ion Ratio Lower Upper

75 100

53 54.9 71.9 107.9#

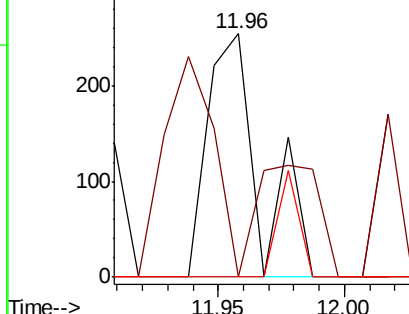
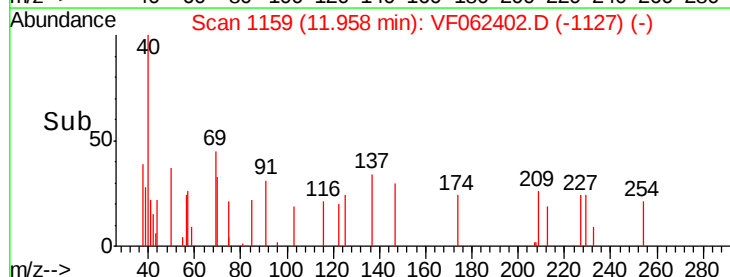
89 17.9 0.0 0.0#

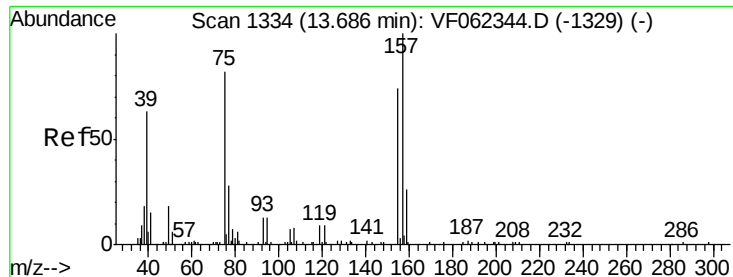


Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 88.90 (88.60 to 89.60): VF0





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.470 ug/l

RT: 13.65 min Scan# 1331

Delta R.T. -0.03 min

Lab File: VF062402.D

Acq: 9 May 2019 18:14

Instrument :

MSVOA_F

ClientSampleId :

CL-02-050719-B

Tgt Ion: 75 Resp: 552

Ion Ratio Lower Upper

75 100

155 0.0 51.8 155.4#

157 0.0 67.3 201.8#

