

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051319\
 Data File : VF062550.D
 Acq On : 13 May 2019 19:11
 Operator : FY/SY
 Sample : K2734-09RE
 Misc : 6.82g/5mL/MSVOA F/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P026-SS012-1218-01RE

Quant Time: May 14 07:04:07 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	5.07	168	185790	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.80	114	216174	50.00	ug/l	0.03
63) Chlorobenzene-d5	9.93	117	164976	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.62	152	72684	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.05	65	64178	36.55	ug/l	0.03
Spiked Amount			Recovery	=	73.10%	
35) Dibromofluoromethane	4.33	113	84128	48.85	ug/l	0.03
Spiked Amount			Recovery	=	97.70%	
50) Toluene-d8	7.74	98	168220	40.35	ug/l	0.03
Spiked Amount			Recovery	=	80.70%	
62) 4-Bromofluorobenzene	11.51	95	62232	33.09	ug/l	0.02
Spiked Amount			Recovery	=	66.18%	

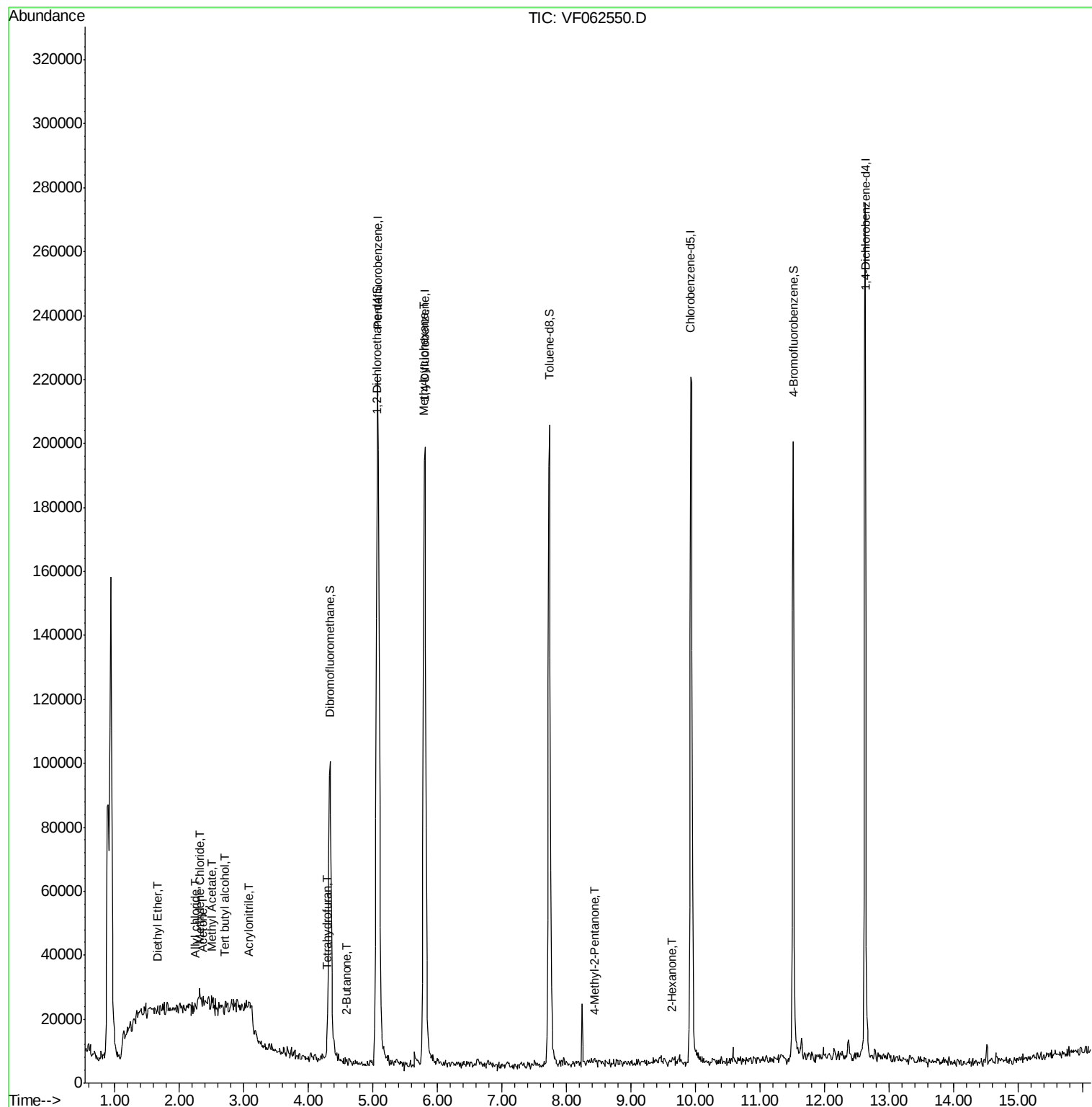
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.39	94	636	Below Cal	#	39
8) Diethyl Ether	1.65	74	509	1.146	ug/l	46
11) Tert butyl alcohol	2.72	59	738	7.437	ug/l #	1
13) Acrolein	2.15	56	595	Below Cal		86
14) Allyl chloride	2.24	41	1274	1.012	ug/l #	7
15) Acrylonitrile	3.08	53	271	1.442	ug/l #	75
16) Acetone	2.37	43	4122	11.605	ug/l	96
18) Methyl Acetate	2.51	43	3440	2.324	ug/l #	71
20) Methylene Chloride	2.30	84	2245	1.747	ug/l #	90
25) 2-Butanone	4.59	43	1470	3.294	ug/l #	70
29) Tetrahydrofuran	4.29	42	914	4.457	ug/l #	36
37) Ethyl Acetate	4.34	43	536	Below Cal	#	93
38) Carbon Tetrachloride	4.27	117	67	Below Cal	#	14
39) Methylcyclohexane	5.78	83	4114	2.209	ug/l #	18
49) 1,4-Dioxane	6.88	88	66	Below Cal	#	22
51) 4-Methyl-2-Pentanone	8.42	43	1361	2.126	ug/l #	51
59) 2-Hexanone	9.63	43	450	1.017	ug/l	69

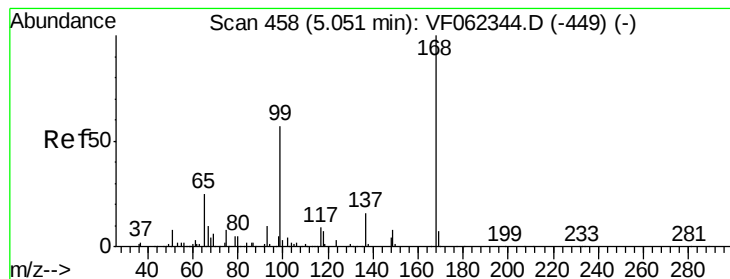
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue May 07 04:34:57 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.07 min Scan# 461

Delta R.T. 0.02 min

Lab File: VF062550.D

Acq: 13 May 2019 19:11

Instrument :

MSVOA_F

ClientSampleId :

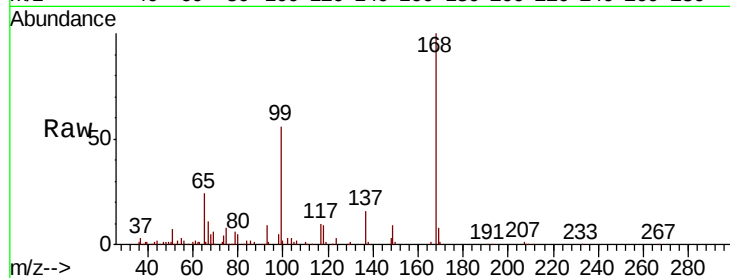
P026-SS012-1218-01RE

Tot Ion:168 Resp: 185790

Ion Ratio Lower Upper

168 100

99 55.8 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.07

60000

40000

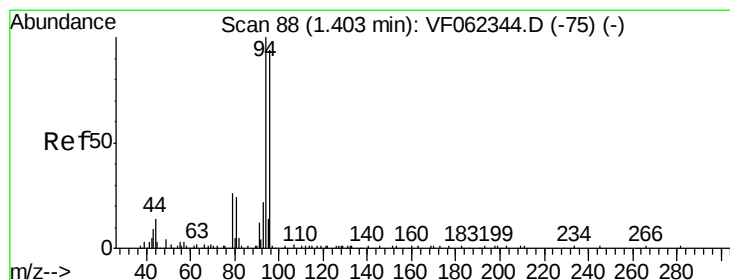
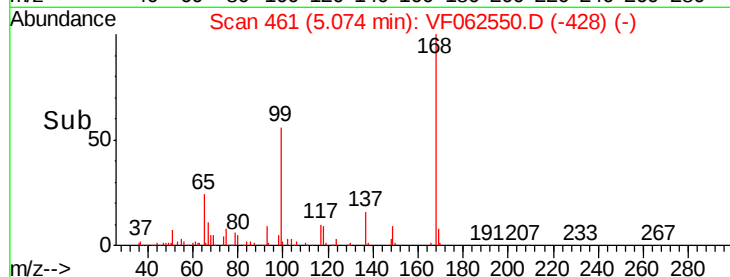
20000

0

Time-->

5.00

5.20



#5

Bromomethane

Concen: Below Cal

RT: 1.39 min Scan# 87

Delta R.T. -0.02 min

Lab File: VF062550.D

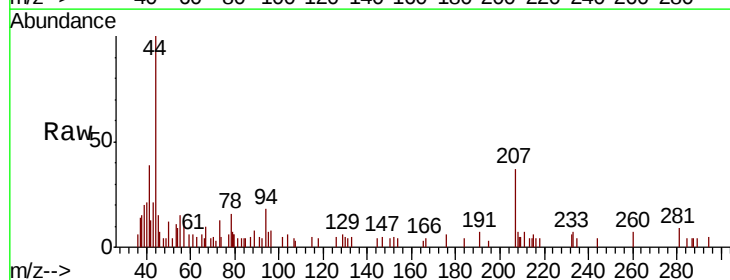
Acq: 13 May 2019 19:11

Tgt Ion: 94 Resp: 636

Ion Ratio Lower Upper

94 100

96 35.2 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

600

500

400

300

200

100

0

Time-->

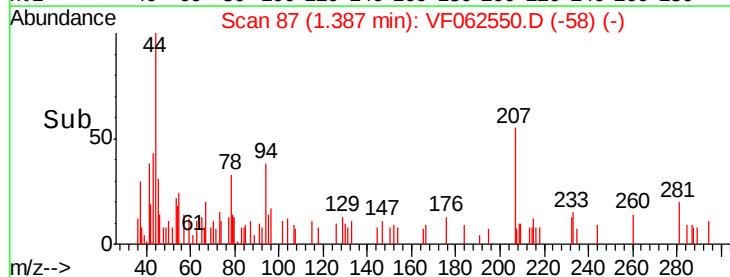
1.34

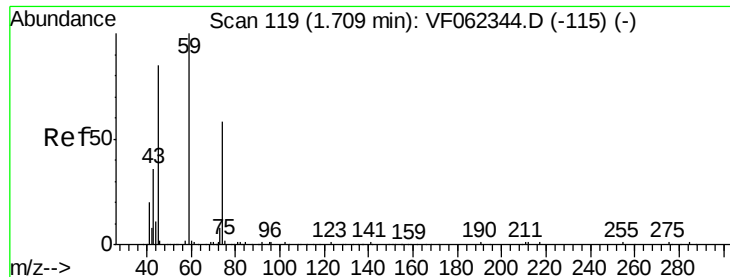
1.36

1.38

1.40

1.42





#8

Diethyl Ether

Concen: 1.146 ug/l

RT: 1.65 min Scan# 114

Delta R.T. -0.06 min

Lab File: VF062550.D

Acq: 13 May 2019 19:11

Instrument :

MSVOA_F

ClientSampleId :

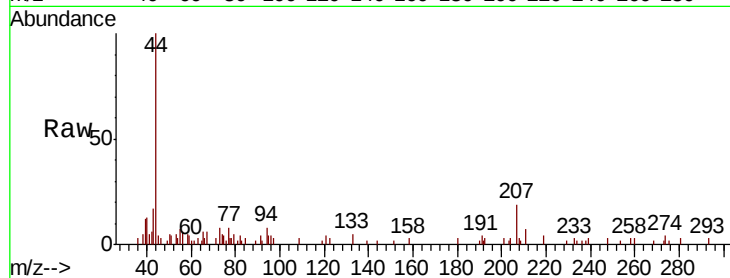
P026-SS012-1218-01RE

Tot Ion: 74 Resp: 509

Ion Ratio Lower Upper

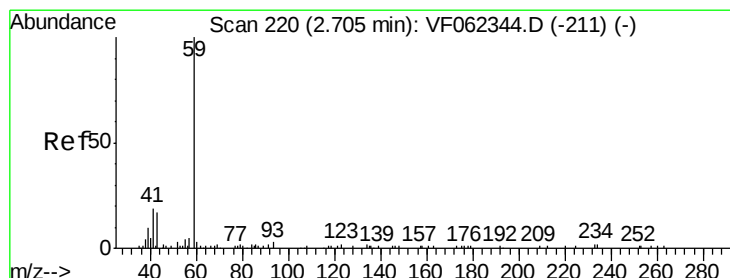
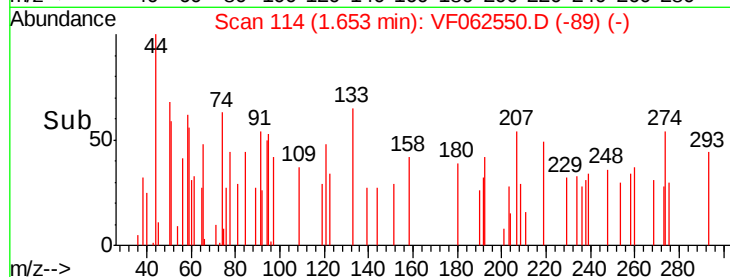
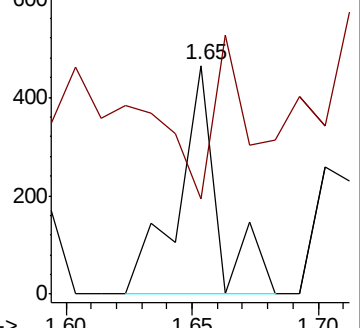
74 100

45 80.4 73.9 221.6



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



#11

Tert butyl alcohol

Concen: 7.437 ug/l

RT: 2.72 min Scan# 222

Delta R.T. 0.01 min

Lab File: VF062550.D

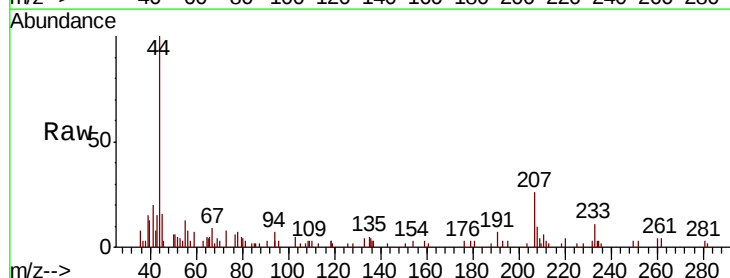
Acq: 13 May 2019 19:11

Tgt Ion: 59 Resp: 738

Ion Ratio Lower Upper

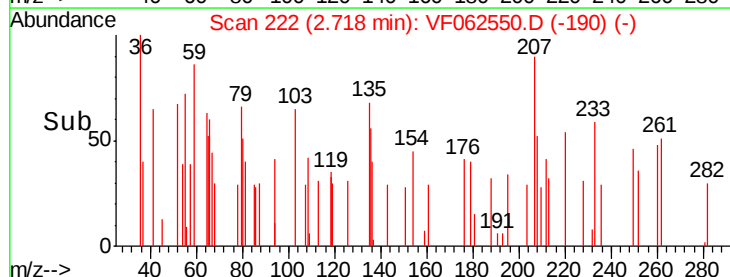
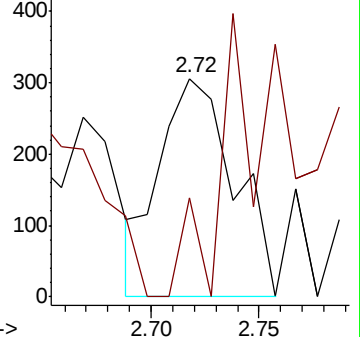
59 100

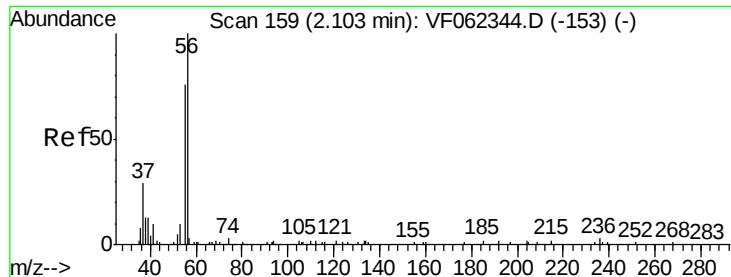
57 108.9 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: Below Cal

RT: 2.15 min Scan# 164

Delta R.T. 0.04 min

Lab File: VF062550.D

Acq: 13 May 2019 19:11

Instrument :

MSVOA_F

ClientSampleId :

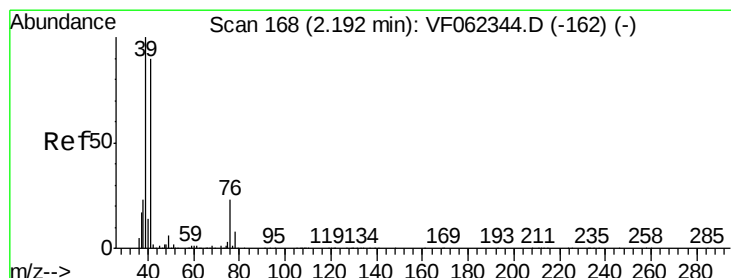
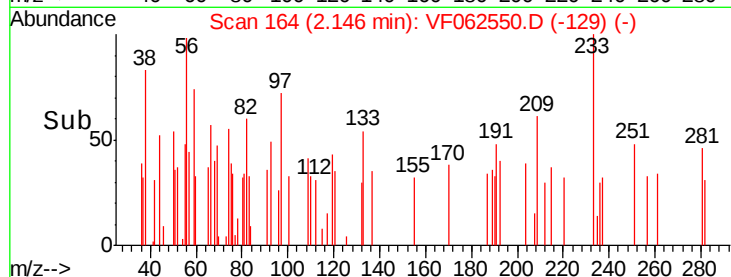
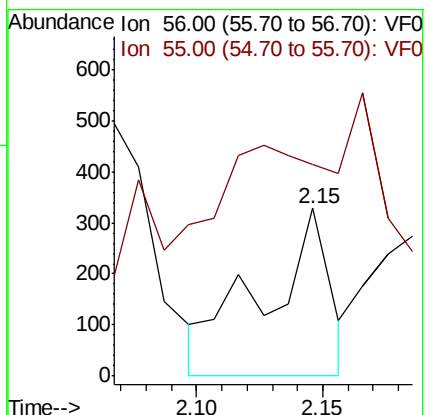
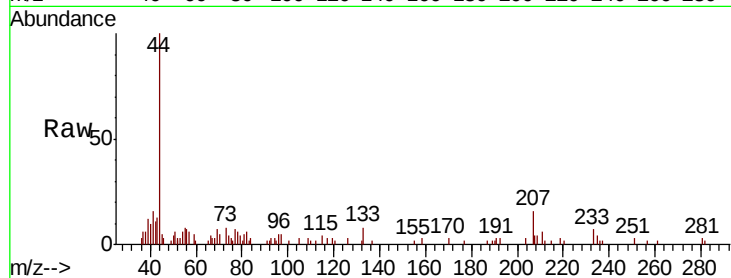
P026-SS012-1218-01RE

Tot Ion: 56 Resp: 595

Ion Ratio Lower Upper

56 100

55 85.0 58.4 87.6



#14

Allyl chloride

Concen: 1.012 ug/l

RT: 2.24 min Scan# 174

Delta R.T. 0.05 min

Lab File: VF062550.D

Acq: 13 May 2019 19:11

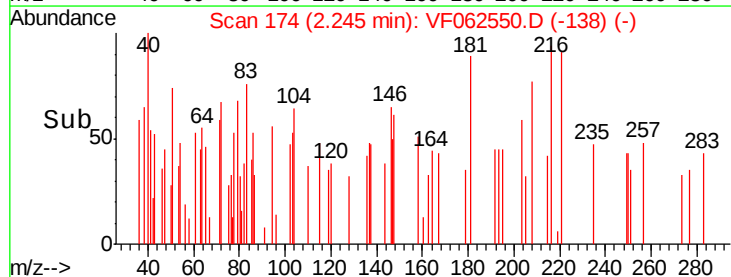
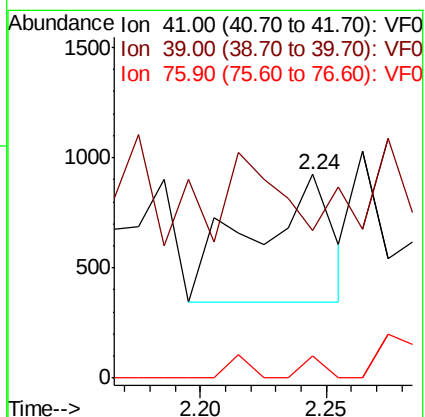
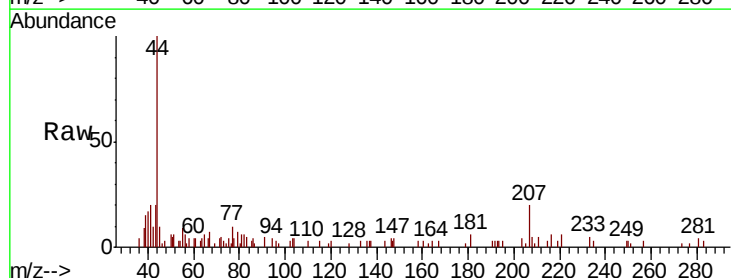
Tgt Ion: 41 Resp: 1274

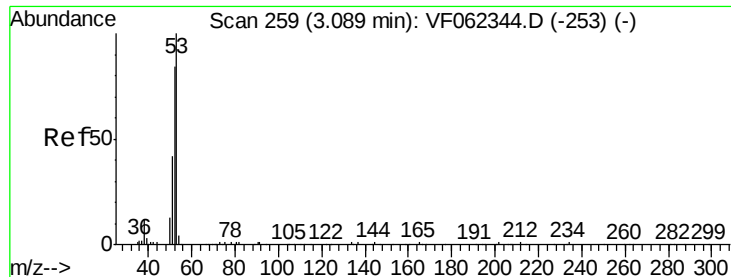
Ion Ratio Lower Upper

41 100

39 0.0 90.8 136.2#

76 4.8 22.2 33.4#





#15

Acrylonitrile

Concen: 1.442 ug/l

RT: 3.08 min Scan# 259

Delta R.T. -0.01 min

Lab File: VF062550.D

Acq: 13 May 2019 19:11

Instrument :

MSVOA_F

ClientSampleId :

P026-SS012-1218-01RE

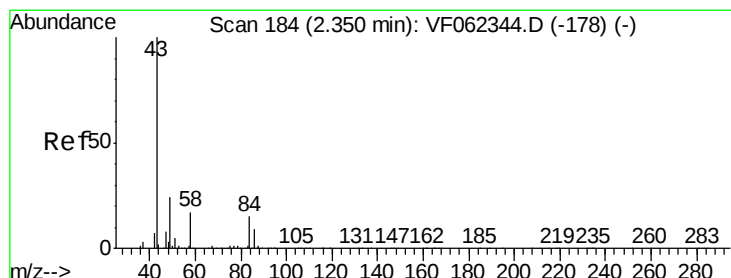
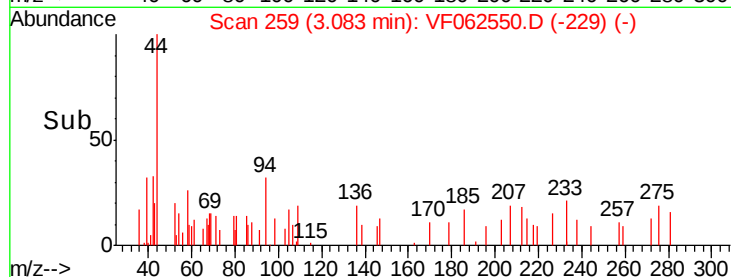
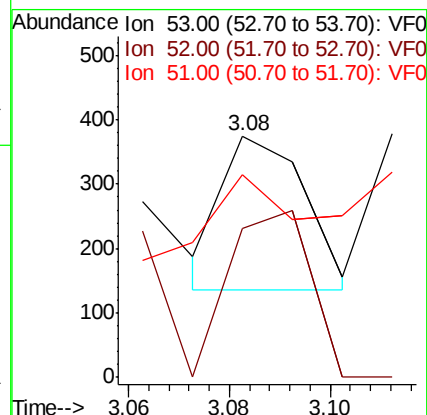
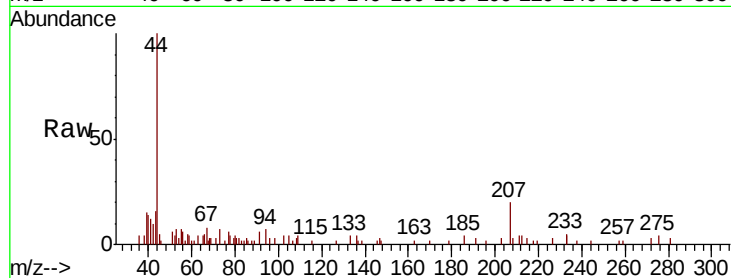
Tot Ion: 53 Resp: 271

Ion Ratio Lower Upper

53 100

52 107.0 77.2 115.8

51 87.8 40.6 61.0#



#16

Acetone

Concen: 11.605 ug/l

RT: 2.37 min Scan# 187

Delta R.T. 0.02 min

Lab File: VF062550.D

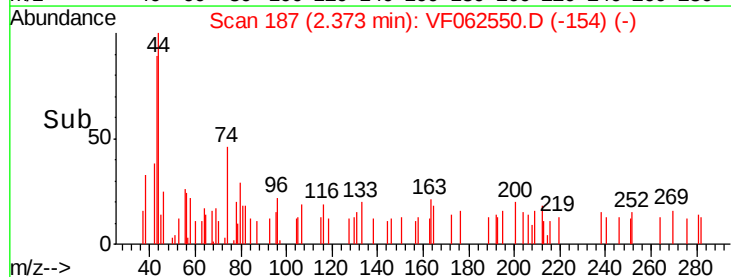
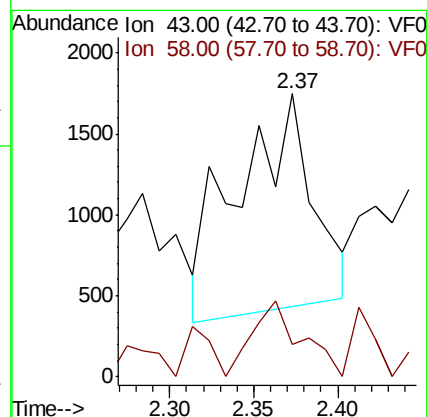
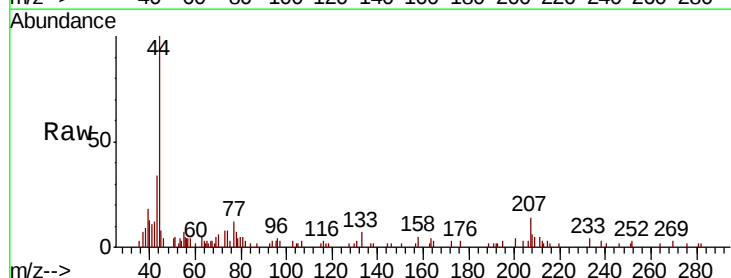
Acq: 13 May 2019 19:11

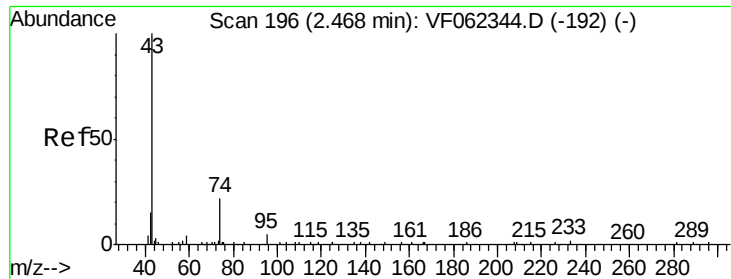
Tgt Ion: 43 Resp: 4122

Ion Ratio Lower Upper

43 100

58 18.1 13.1 19.7

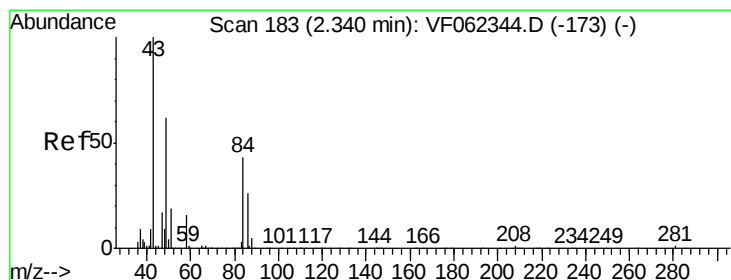
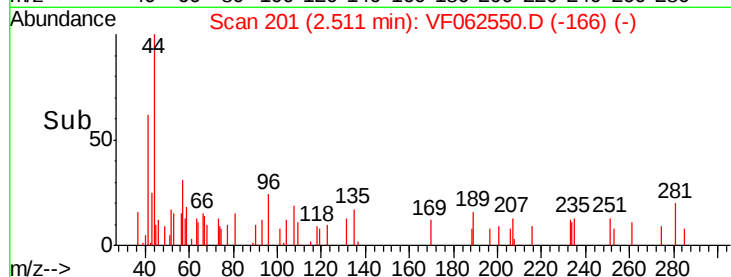
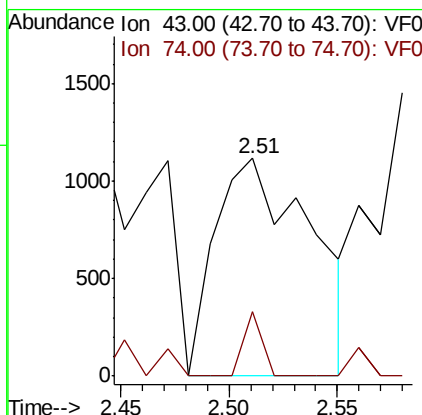
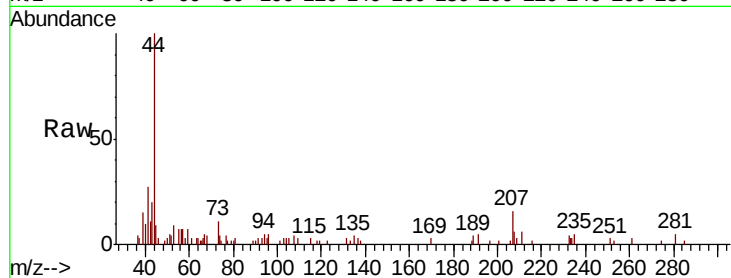




#18
Methyl Acetate
Concen: 2.324 ug/l
RT: 2.51 min Scan# 201
Delta R.T. 0.04 min
Lab File: VF062550.D
Acq: 13 May 2019 19:11

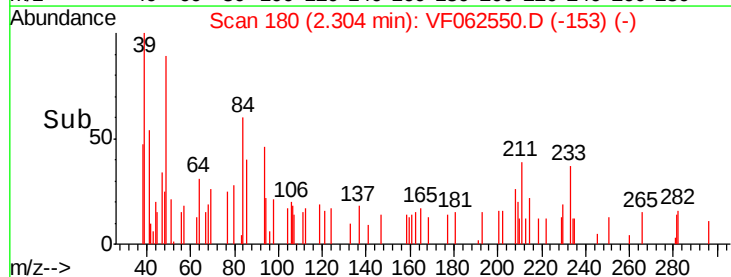
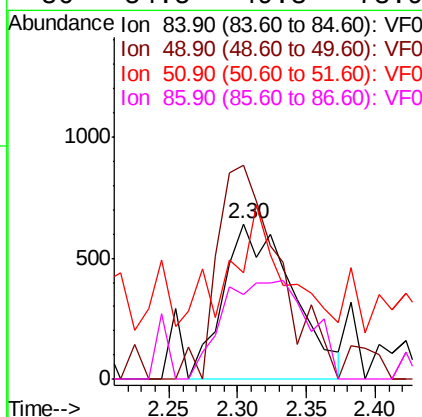
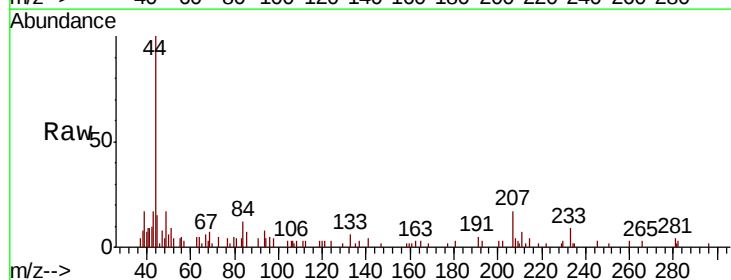
Instrument :
MSVOA_F
ClientSampleId :
P026-SS012-1218-01RE

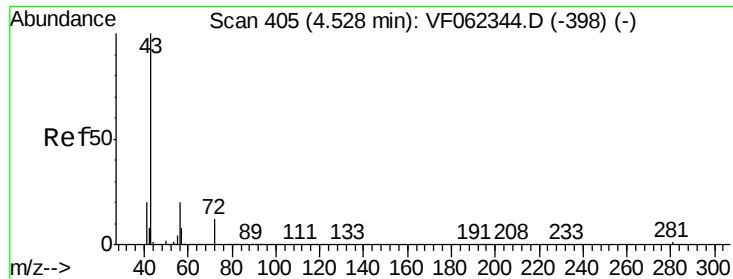
Tot Ion: 43 Resp: 3440
Ion Ratio Lower Upper
43 100
74 5.6 15.0 22.4#



#20
Methylene Chloride
Concen: 1.747 ug/l
RT: 2.30 min Scan# 180
Delta R.T. -0.04 min
Lab File: VF062550.D
Acq: 13 May 2019 19:11

Tgt Ion: 84 Resp: 2245
Ion Ratio Lower Upper
84 100
49 137.5 117.5 176.3
51 31.9 37.0 55.4#
86 54.5 49.3 73.9





#25

2-Butanone

Concen: 3.294 ug/l

RT: 4.59 min Scan# 412

Delta R.T. 0.06 min

Lab File: VF062550.D

Acq: 13 May 2019 19:11

Instrument :

MSVOA_F

ClientSampleId :

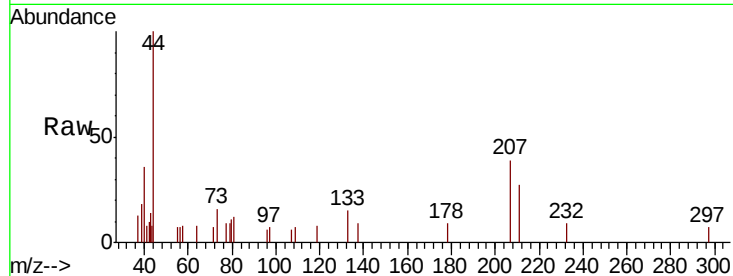
P026-SS012-1218-01RE

Tot Ion: 43 Resp: 1470

Ion Ratio Lower Upper

43 100

72 31.2 14.2 21.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

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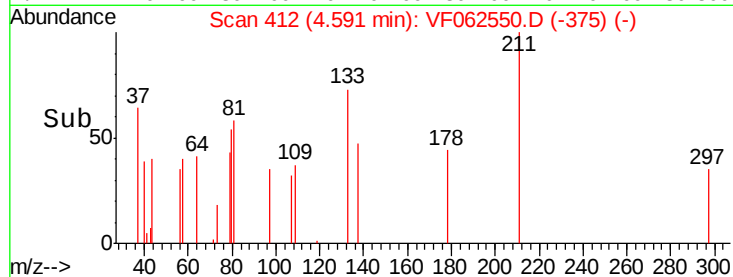
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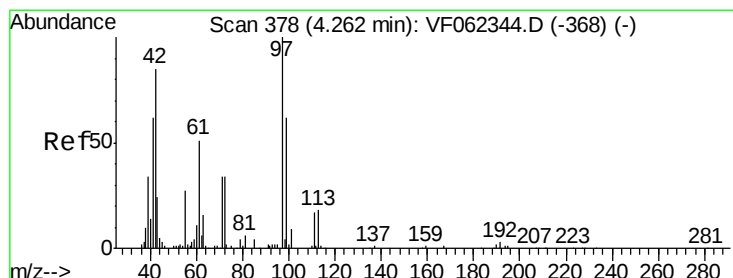
4.59

4.59

4.59



Time-->



#29

Tetrahydrofuran

Concen: 4.457 ug/l

RT: 4.29 min Scan# 381

Delta R.T. 0.02 min

Lab File: VF062550.D

Acq: 13 May 2019 19:11

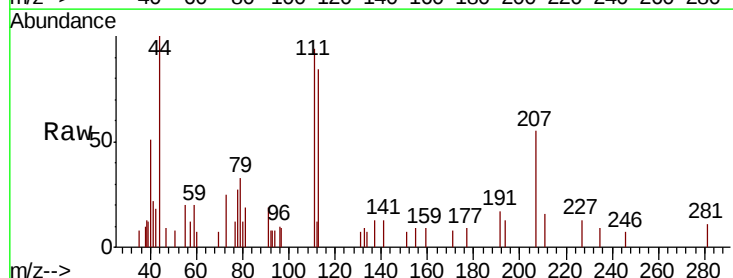
Tgt Ion: 42 Resp: 914

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

71 0.0 31.7 47.5#



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

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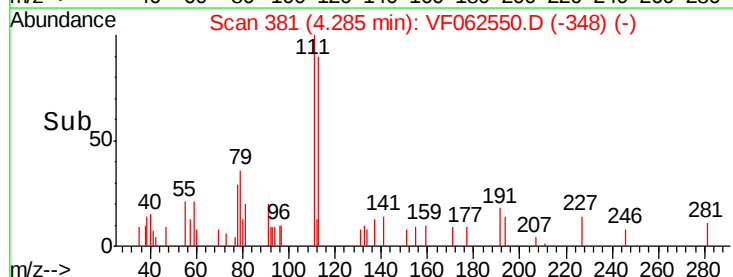
4.29

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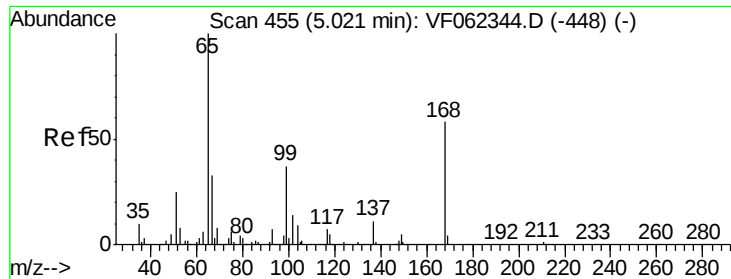
4.29

4.29

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Time-->



#33

1,2-Dichloroethane-d4

Concen: 36.552 ug/l

RT: 5.05 min Scan# 459

Delta R.T. 0.03 min

Lab File: VF062550.D

Acq: 13 May 2019 19:11

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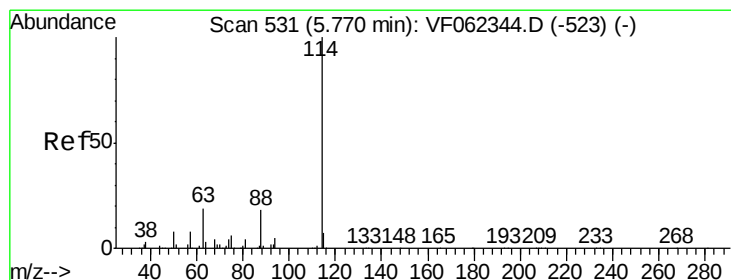
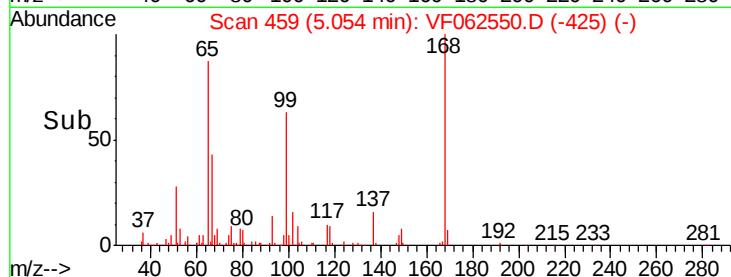
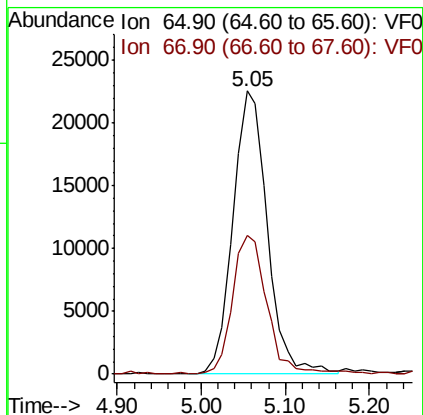
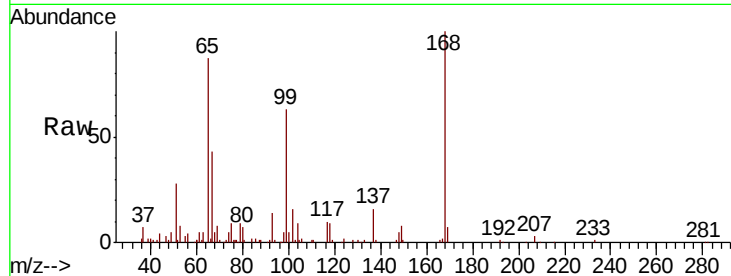
P026-SS012-1218-01RE

Tot Ion: 65 Resp: 64178

Ion Ratio Lower Upper

65 100

67 49.4 0.0 85.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.80 min Scan# 535

Delta R.T. 0.03 min

Lab File: VF062550.D

Acq: 13 May 2019 19:11

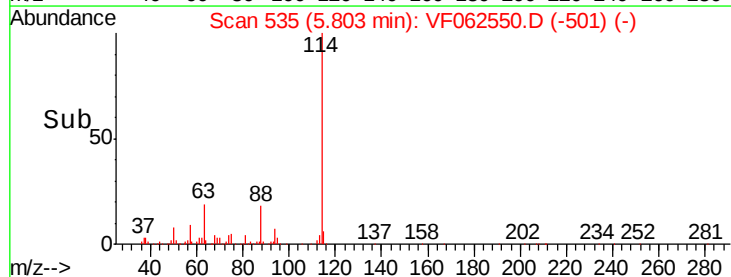
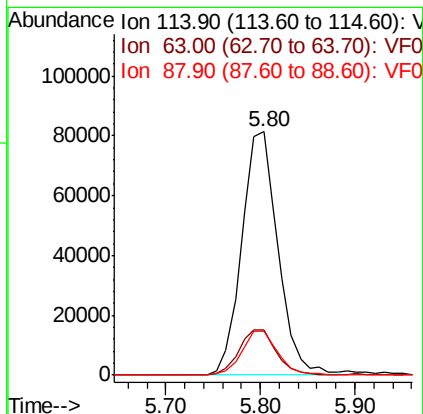
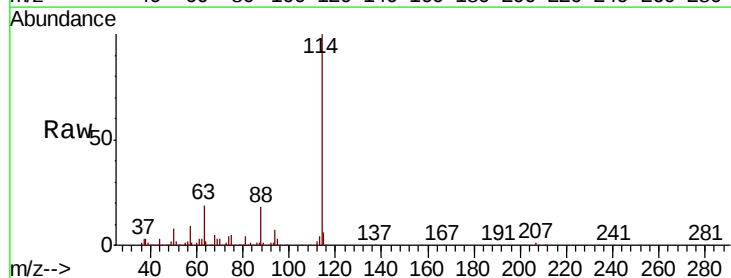
Tgt Ion: 114 Resp: 216174

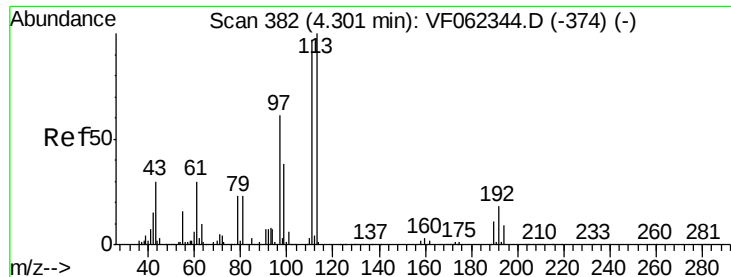
Ion Ratio Lower Upper

114 100

63 18.6 0.0 37.4

88 18.0 0.0 36.4

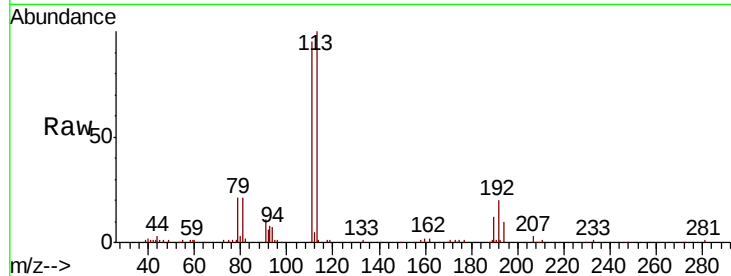




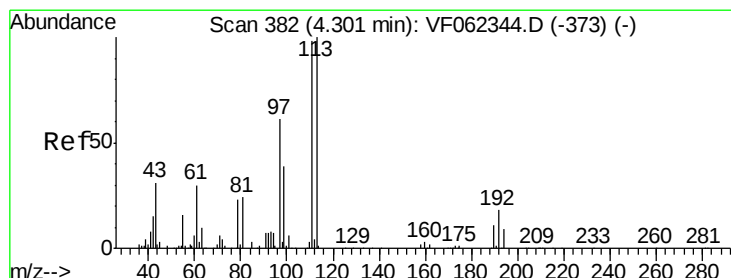
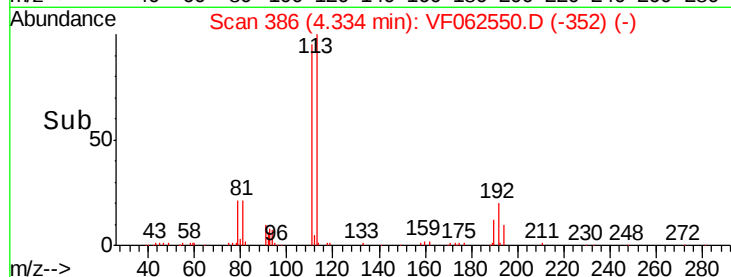
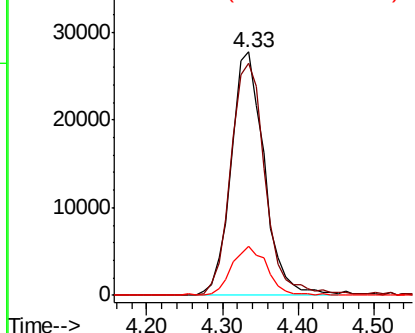
#35
 Dibromofluoromethane
 Concen: 48.849 ug/l
 RT: 4.33 min Scan# 386
 Delta R.T. 0.03 min
 Lab File: VF062550.D
 Acq: 13 May 2019 19:11

Instrument :
 MSVOA_F
 ClientSampleId :
 P026-SS012-1218-01RE

Tot Ion:113 Resp: 84128
 Ion Ratio Lower Upper
 113 100
 111 99.4 79.4 119.0
 192 21.3 16.0 24.0

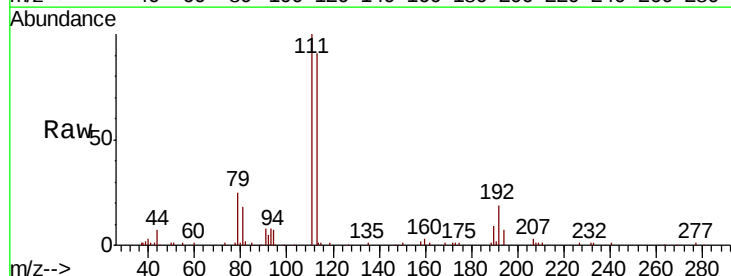


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

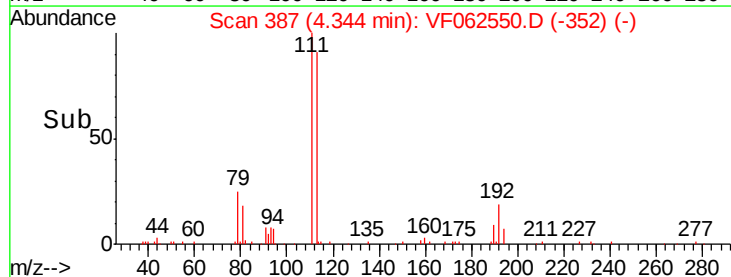
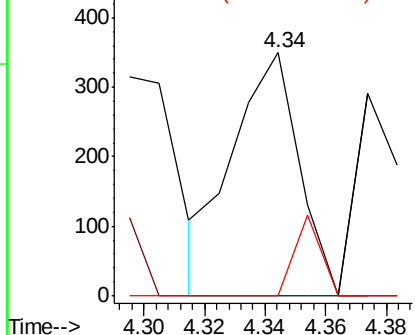


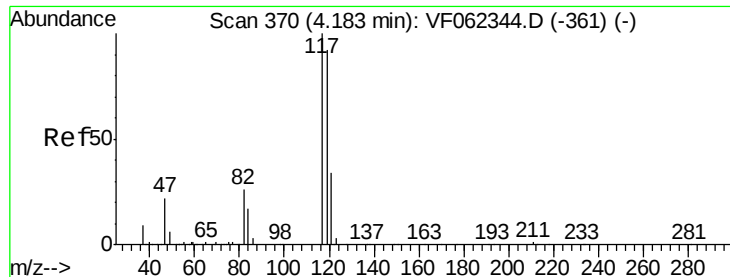
#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 4.34 min Scan# 387
 Delta R.T. 0.04 min
 Lab File: VF062550.D
 Acq: 13 May 2019 19:11

Tgt Ion: 43 Resp: 536
 Ion Ratio Lower Upper
 43 100
 61 0.0 0.0 0.0
 70 12.9 8.2 12.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 60.90 (60.60 to 61.60): VF0
 Ion 70.00 (69.70 to 70.70): VF0





#38

Carbon Tetrachloride

Concen: Below Cal

RT: 4.27 min Scan# 379

Delta R.T. 0.08 min

Lab File: VF062550.D

Acq: 13 May 2019 19:11

Instrument :

MSVOA_F

ClientSampleId :

P026-SS012-1218-01RE

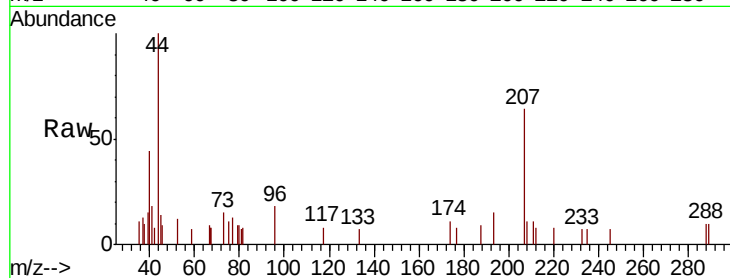
Tot Ion:117 Resp: 67

Ion Ratio Lower Upper

117 100

119 0.0 73.4 110.2#

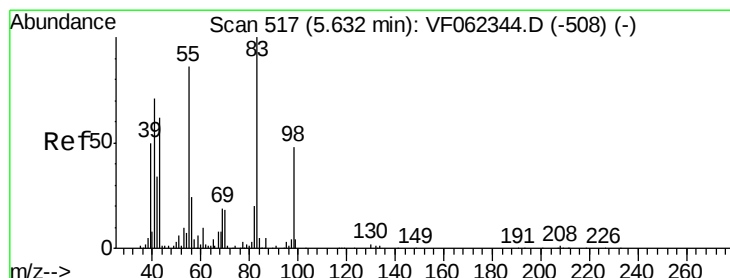
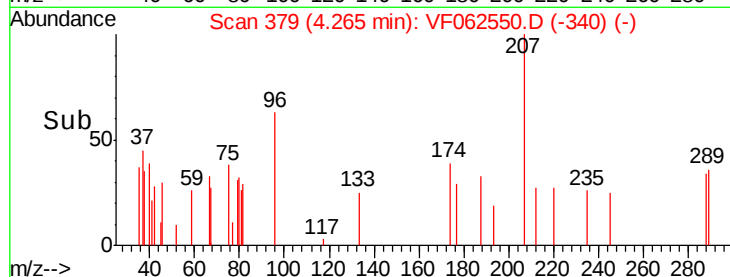
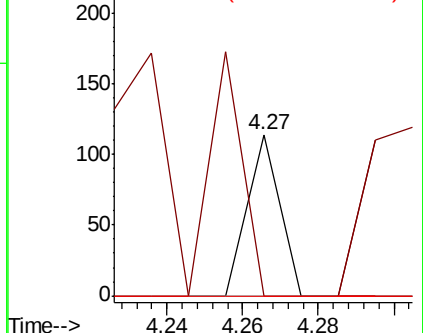
121 0.0 27.4 41.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 2.209 ug/l

RT: 5.78 min Scan# 533

Delta R.T. 0.15 min

Lab File: VF062550.D

Acq: 13 May 2019 19:11

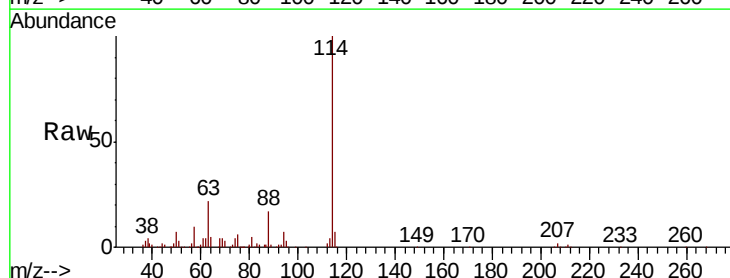
Tgt Ion: 83 Resp: 4114

Ion Ratio Lower Upper

83 100

55 4.9 69.0 103.6#

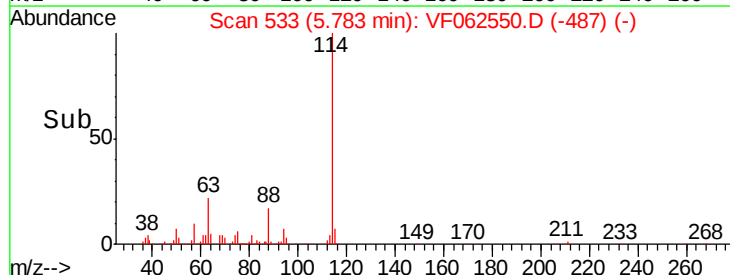
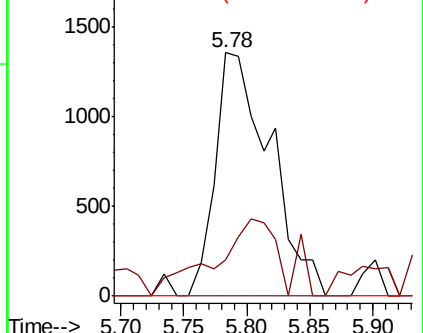
98 0.0 38.6 58.0#

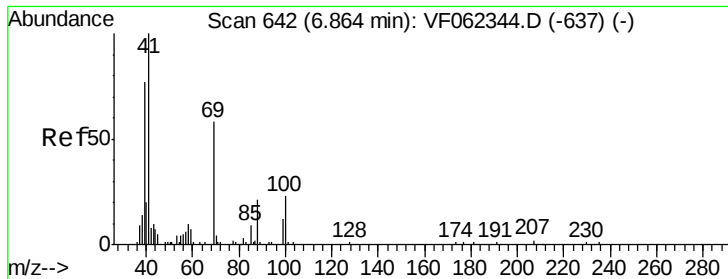


Abundance Ion 83.00 (82.70 to 83.70): VF0

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: 6.88 min Scan# 644

Delta R.T. 0.01 min

Lab File: VF062550.D

Acq: 13 May 2019 19:11

Instrument :

MSVOA_F

ClientSampleId :

P026-SS012-1218-01RE

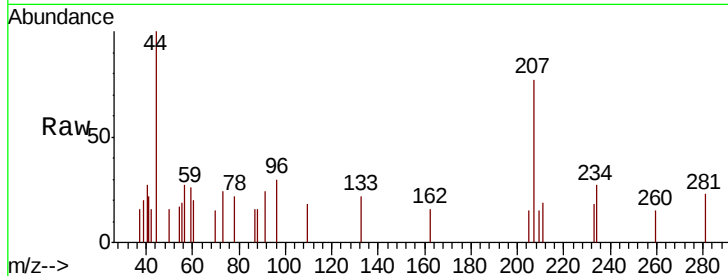
Tot Ion: 88 Resp: 66

Ion Ratio Lower Upper

88 100

43 128.8 55.6 83.4#

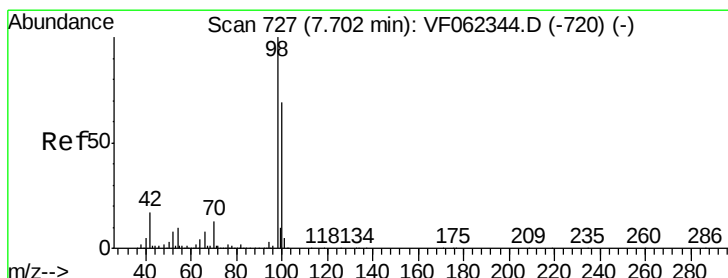
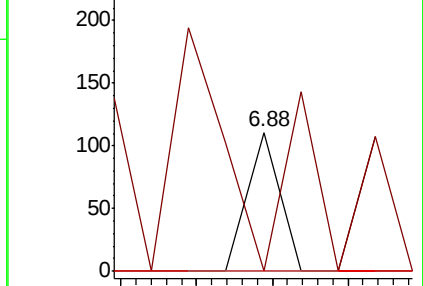
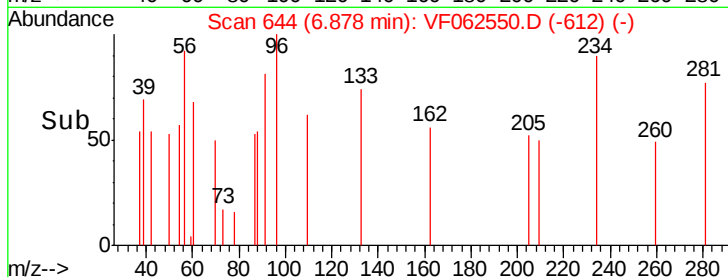
58 0.0 52.8 79.2#



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: 40.351 ug/l

RT: 7.74 min Scan# 731

Delta R.T. 0.03 min

Lab File: VF062550.D

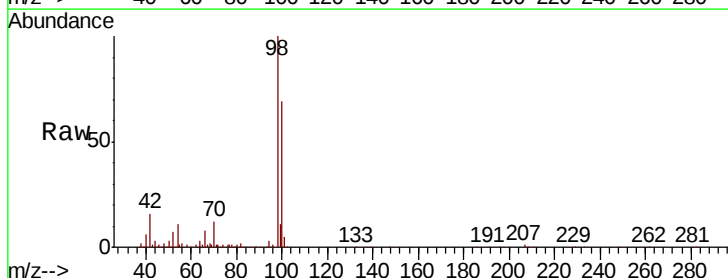
Acq: 13 May 2019 19:11

Tgt Ion: 98 Resp: 168220

Ion Ratio Lower Upper

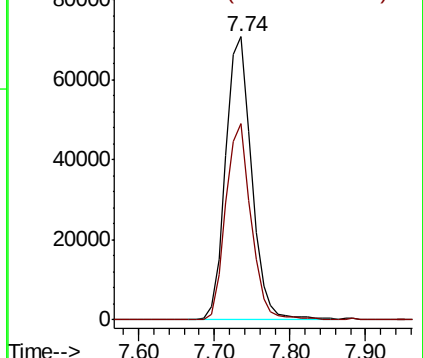
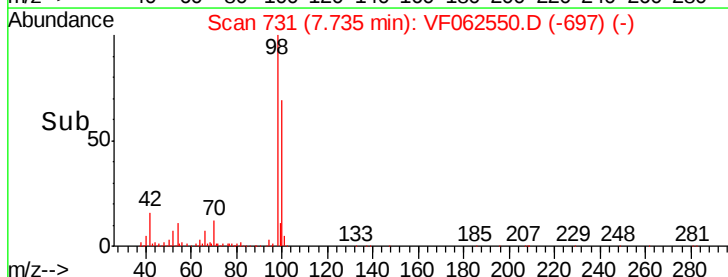
98 100

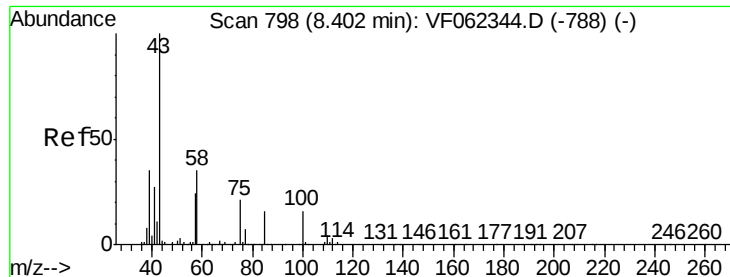
100 67.9 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 2.126 ug/l

RT: 8.42 min Scan# 800

Delta R.T. 0.01 min

Lab File: VF062550.D

Acq: 13 May 2019 19:11

Instrument :

MSVOA_F

ClientSampleId :

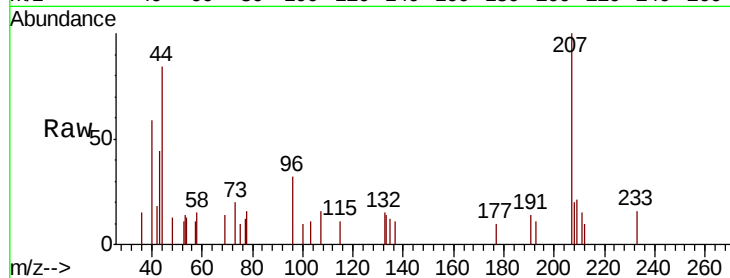
P026-SS012-1218-01RE

Tot Ion: 43 Resp: 1361

Ion Ratio Lower Upper

43 100

58 6.4 27.8 41.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.42

400

300

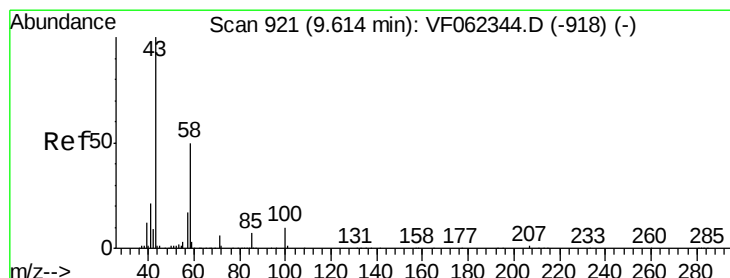
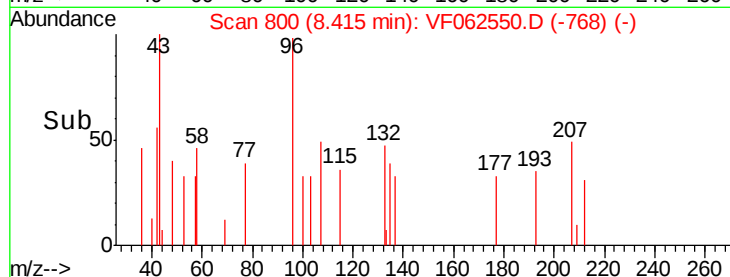
200

100

0

8.35 8.40 8.45 8.50

Time-->



#59

2-Hexanone

Concen: 1.017 ug/l

RT: 9.63 min Scan# 923

Delta R.T. 0.01 min

Lab File: VF062550.D

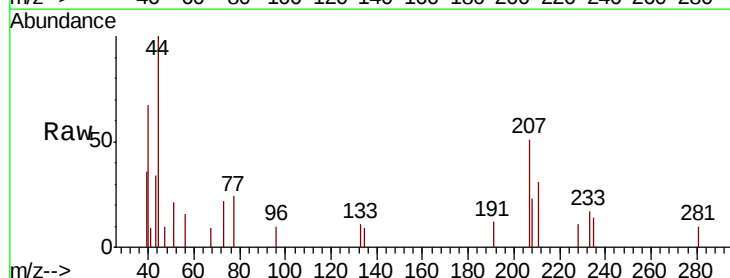
Acq: 13 May 2019 19:11

Tgt Ion: 43 Resp: 450

Ion Ratio Lower Upper

43 100

58 27.6 24.3 73.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.63

400

300

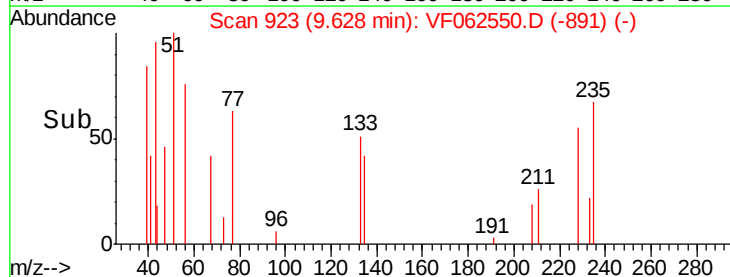
200

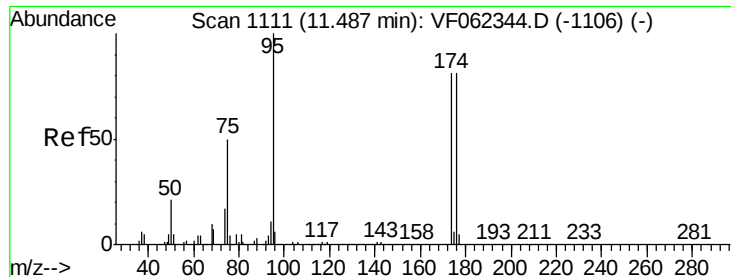
100

0

9.60 9.65

Time-->





#62

4-Bromofluorobenzene

Concen: 33.087 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. 0.02 min

Lab File: VF062550.D

Acq: 13 May 2019 19:11

Instrument :

MSVOA_F

ClientSampleId :

P026-SS012-1218-01RE

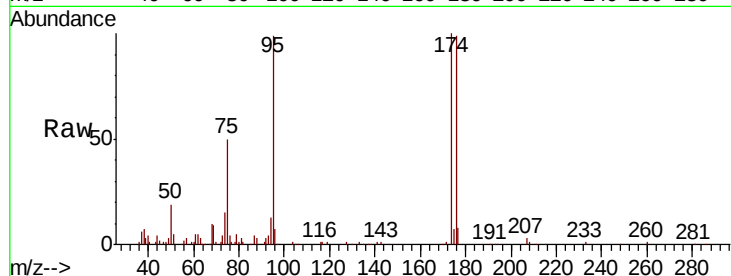
Tot Ion: 95 Resp: 62232

Ion Ratio Lower Upper

95 100

174 98.1 0.0 191.8

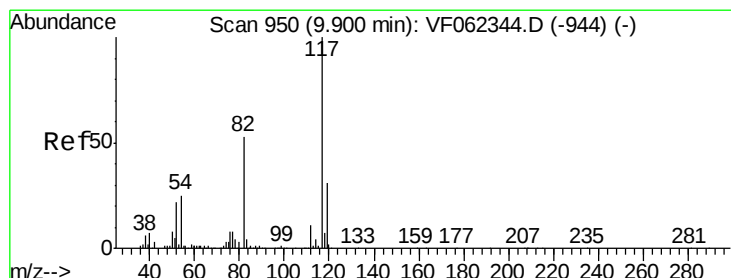
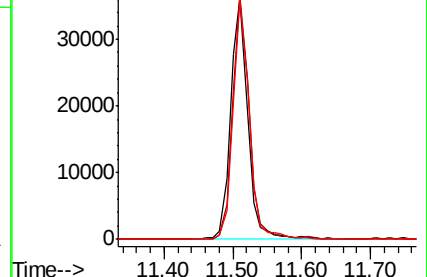
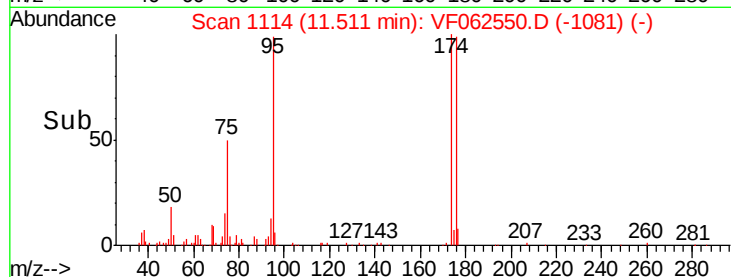
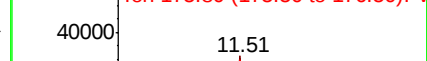
176 94.6 0.0 193.2



Abundance Ion 94.90 (94.60 to 95.60): VF062344.D (-1106) (-)

Ion 173.80 (173.50 to 174.50): VF062344.D (-1106) (-)

Ion 175.80 (175.50 to 176.50): VF062344.D (-1106) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.93 min Scan# 954

Delta R.T. 0.03 min

Lab File: VF062550.D

Acq: 13 May 2019 19:11

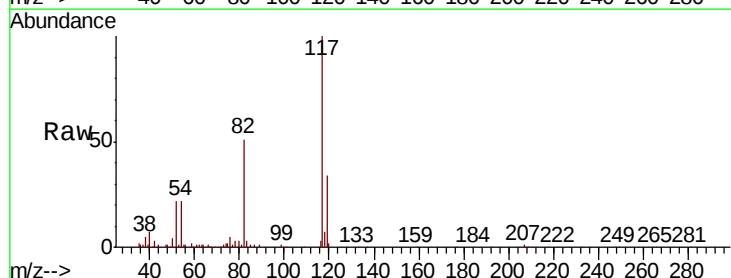
Tgt Ion: 117 Resp: 164976

Ion Ratio Lower Upper

117 100

82 50.3 42.2 63.2

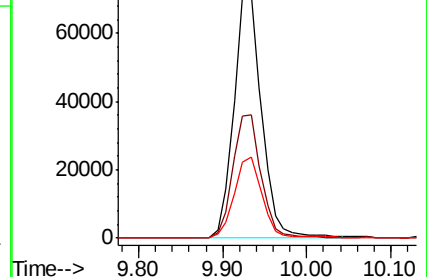
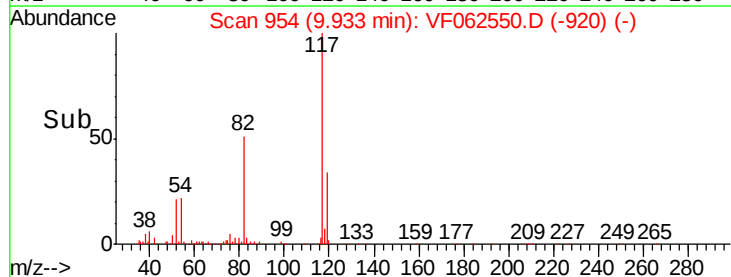
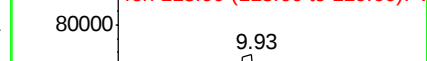
119 33.5 25.0 37.4

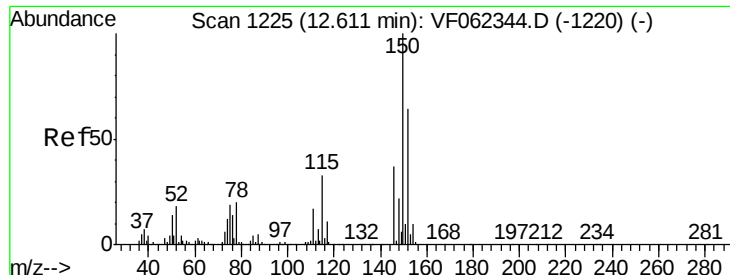


Abundance Ion 116.90 (116.60 to 117.60): VF062344.D (-944) (-)

Ion 82.00 (81.70 to 82.70): VF062344.D (-944) (-)

Ion 118.90 (118.60 to 119.60): VF062344.D (-944) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1227

Delta R.T. 0.01 min

Lab File: VF062550.D

Acq: 13 May 2019 19:11

Instrument :

MSVOA_F

ClientSampleId :

P026-SS012-1218-01RE

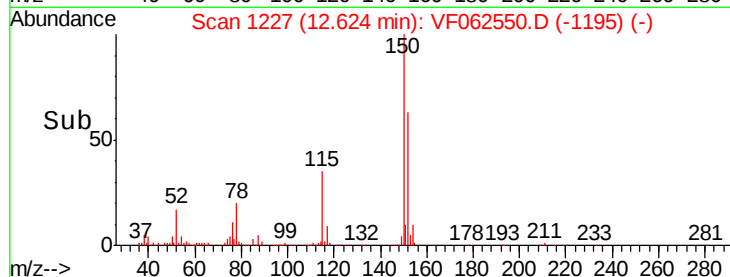
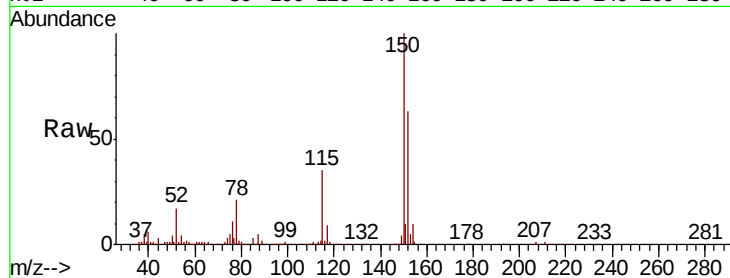
Tot Ion:152 Resp: 72684

Ion Ratio Lower Upper

152 100

115 55.0 26.4 79.2

150 153.3 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

