

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051219\
 Data File : VF062514.D
 Acq On : 12 May 2019 20:24
 Operator : FY/SY
 Sample : K2734-20RE
 Misc : 5.85g/5mL/MSVOA F/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P026-SS014-1824-01RE

Quant Time: May 13 04:48:54 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	5.08	168	251268	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	5.80	114	336714	50.00	ug/l	0.03
63) Chlorobenzene-d5	9.93	117	254185	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.62	152	112219	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.05	65	100054	42.14	ug/l	0.03
Spiked Amount 50.000			Recovery	=	84.28%	
35) Dibromofluoromethane	4.33	113	121268	45.21	ug/l	0.03
Spiked Amount 50.000			Recovery	=	90.42%	
50) Toluene-d8	7.73	98	231415	35.64	ug/l	0.03
Spiked Amount 50.000			Recovery	=	71.28%	
62) 4-Bromofluorobenzene	11.51	95	87518	29.87	ug/l	0.02
Spiked Amount 50.000			Recovery	=	59.74%	

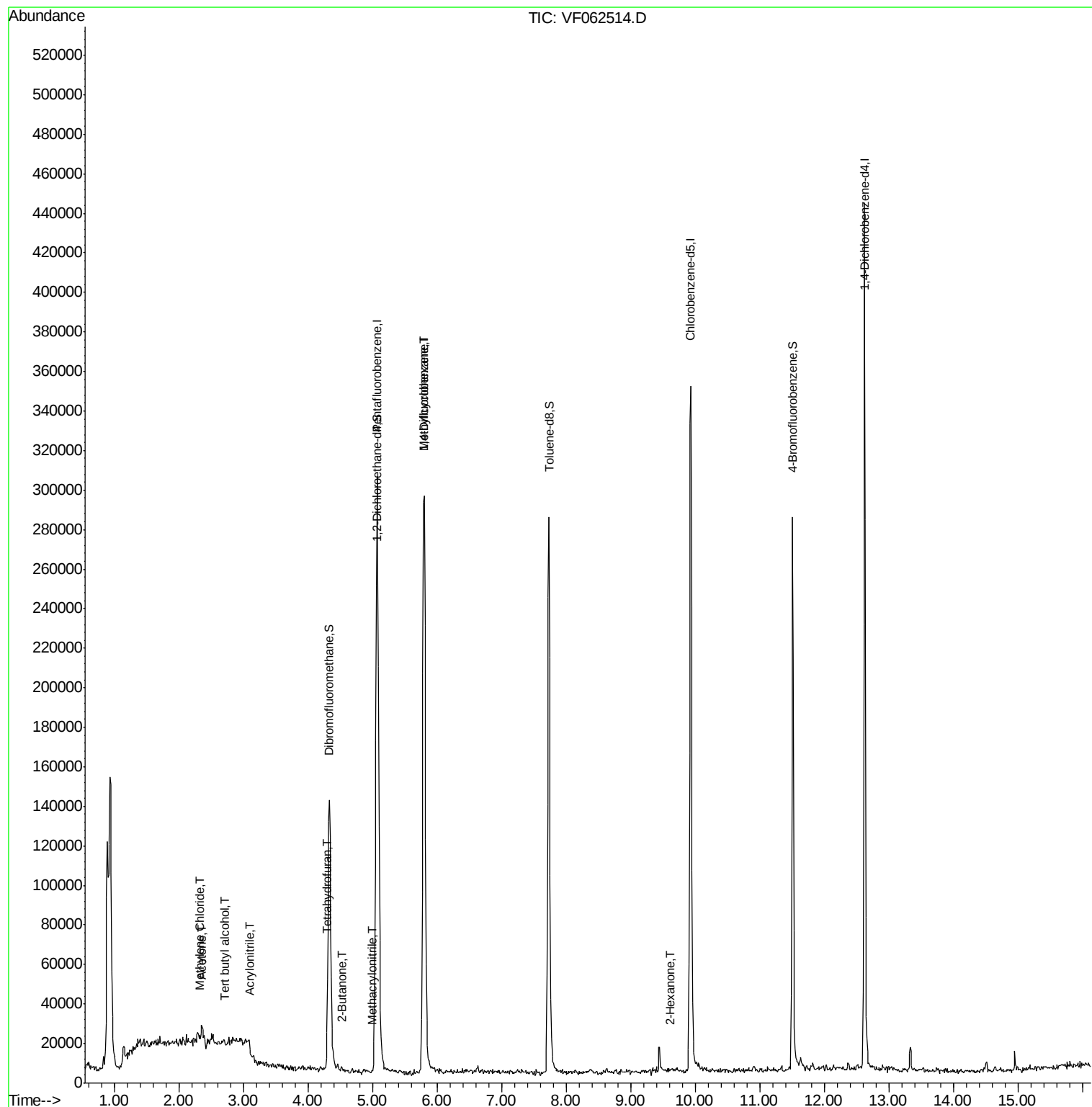
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.42	94	299	Below Cal		95
11) Tert butyl alcohol	2.72	59	161	1.200	ug/l #	1
13) Acrolein	2.12	56	491	Below Cal	#	1
15) Acrylonitrile	3.10	53	322	1.267	ug/l #	56
16) Acetone	2.36	43	11996	24.973	ug/l #	83
18) Methyl Acetate	2.50	43	1799	Below Cal	#	78
20) Methylene Chloride	2.32	84	3300	1.899	ug/l #	89
25) 2-Butanone	4.53	43	1104	1.829	ug/l #	60
29) Tetrahydrofuran	4.29	42	905	3.263	ug/l #	42
37) Ethyl Acetate	4.32	43	371	Below Cal	#	77
38) Carbon Tetrachloride	4.20	117	62	Below Cal	#	1
39) Methylcyclohexane	5.80	83	5367	1.850	ug/l #	32
41) Methacrylonitrile	4.98	41	831	1.198	ug/l #	37
49) 1,4-Dioxane	6.89	88	71	Below Cal	#	16
59) 2-Hexanone	9.62	43	725	1.052	ug/l #	28

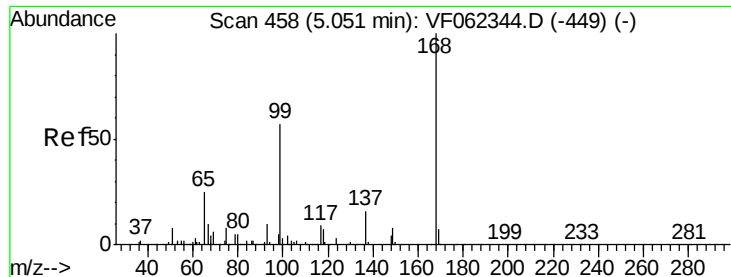
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF051219\
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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: 5.08 min Scan# 461

Delta R.T. 0.03 min

Lab File: VF062514.D

Acq: 12 May 2019 20:24

Instrument :

MSVOA_F

ClientSampleId :

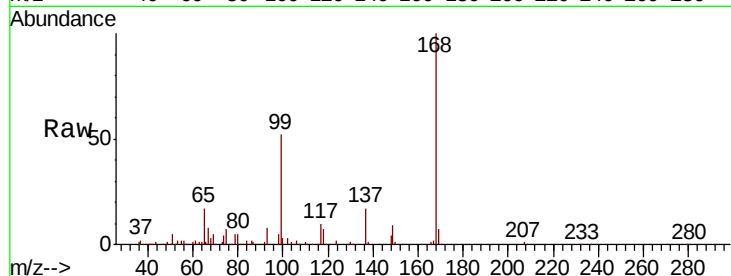
P026-SS014-1824-01RE

Tot Ion:168 Resp: 251268

Ion Ratio Lower Upper

168 100

99 51.8 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.08

80000

60000

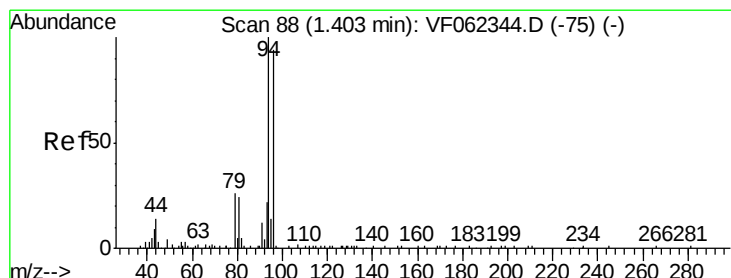
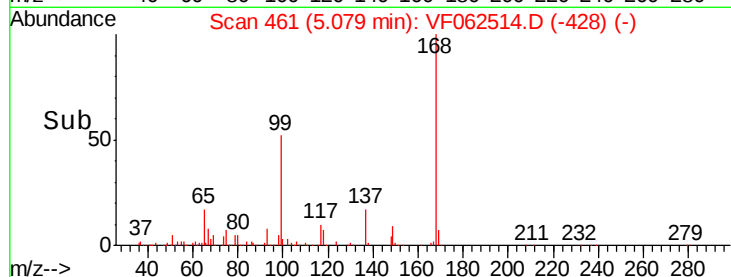
40000

20000

0

5.00 5.10 5.20

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.42 min Scan# 90

Delta R.T. 0.02 min

Lab File: VF062514.D

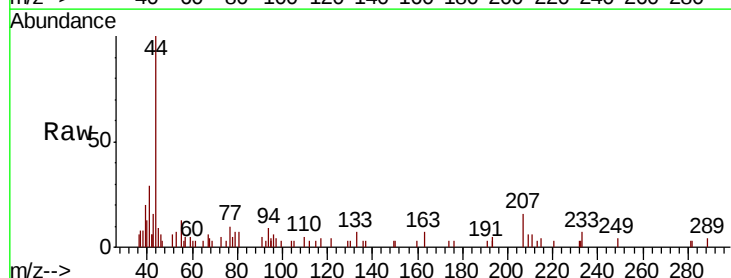
Acq: 12 May 2019 20:24

Tgt Ion: 94 Resp: 299

Ion Ratio Lower Upper

94 100

96 98.7 75.4 113.2



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

500

400

300

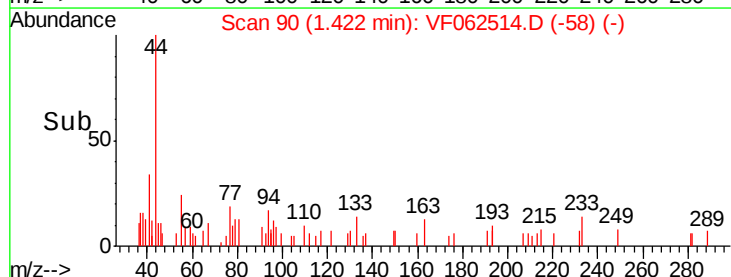
200

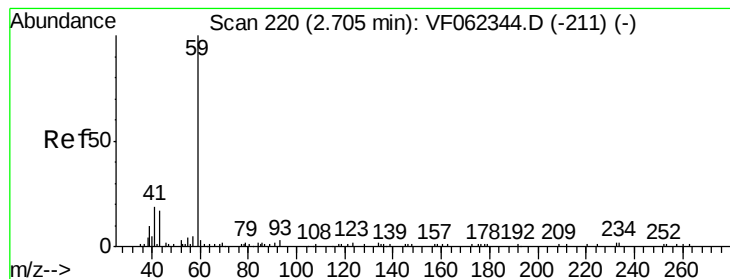
100

0

1.40 1.42 1.44

Time-->



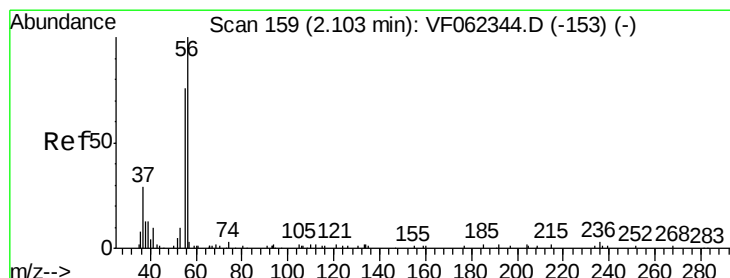
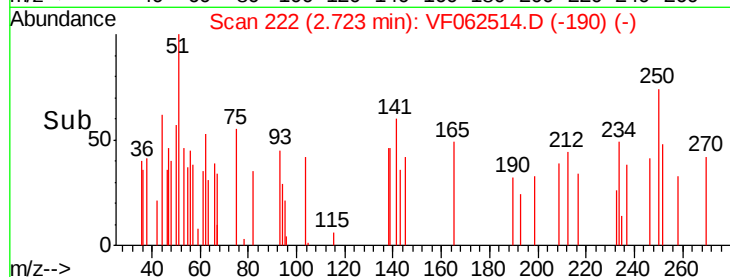
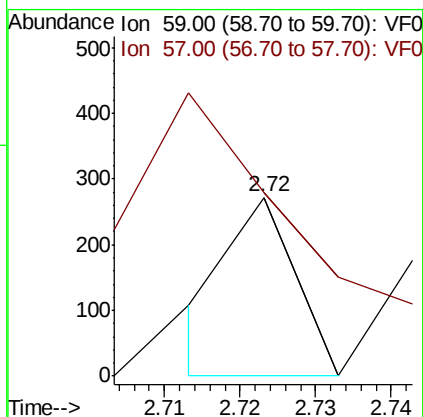
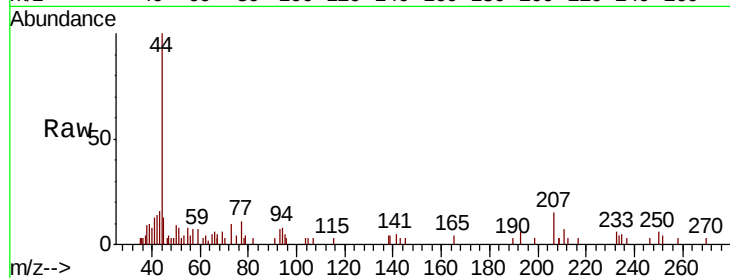


#11

Tert butyl alcohol
 Concen: 1.200 ug/l
 RT: 2.72 min Scan# 222
 Delta R.T. 0.02 min
 Lab File: VF062514.D
 Acq: 12 May 2019 20:24

Instrument :
 MSVOA_F
 ClientSampleId :
 P026-SS014-1824-01RE

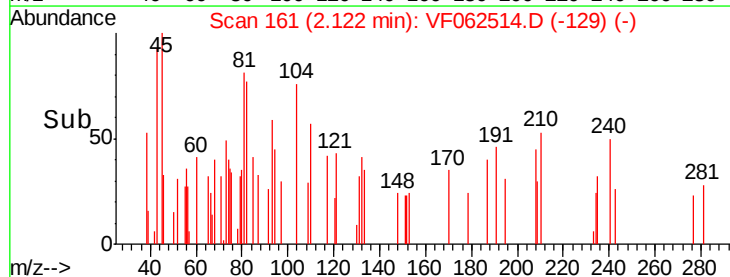
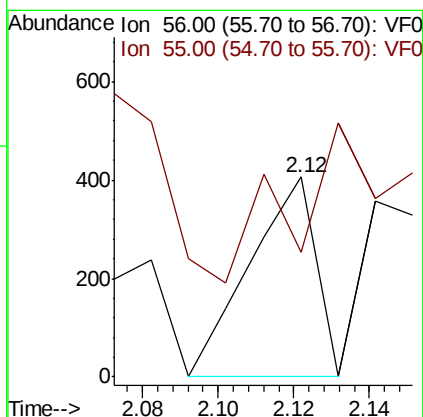
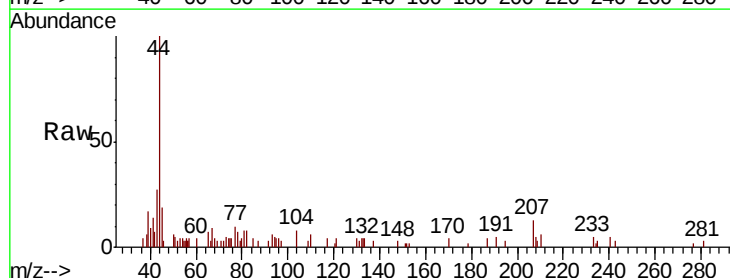
Tot Ion: 59 Resp: 161
 Ion Ratio Lower Upper
 59 100
 57 436.6 9.3 13.9#

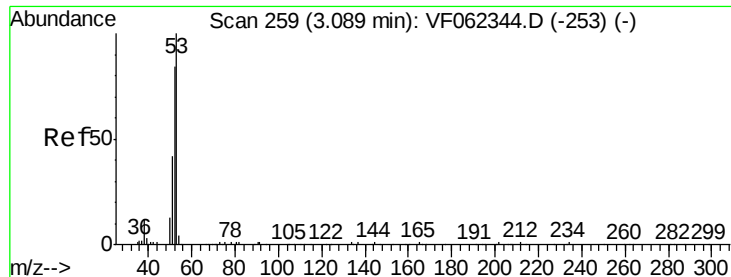


#13

Acrolein
 Concen: Below Cal
 RT: 2.12 min Scan# 161
 Delta R.T. 0.02 min
 Lab File: VF062514.D
 Acq: 12 May 2019 20:24

Tgt Ion: 56 Resp: 491
 Ion Ratio Lower Upper
 56 100
 55 183.7 58.4 87.6#





#15

Acrylonitrile

Concen: 1.267 ug/l

RT: 3.10 min Scan# 260

Delta R.T. 0.01 min

Lab File: VF062514.D

Acq: 12 May 2019 20:24

Instrument :

MSVOA_F

ClientSampleId :

P026-SS014-1824-01RE

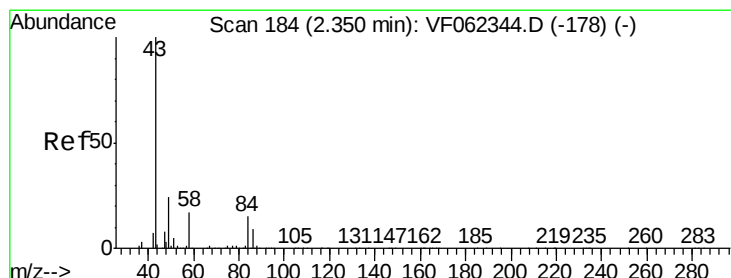
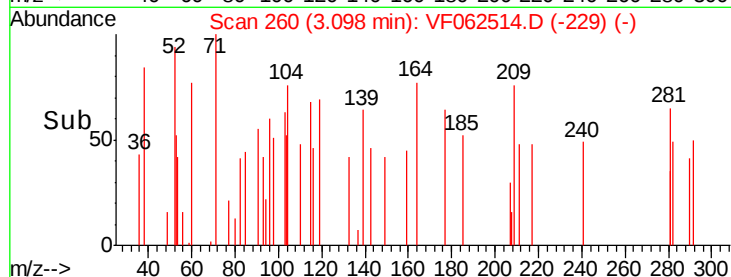
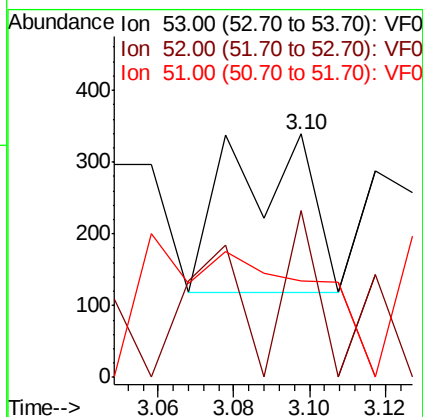
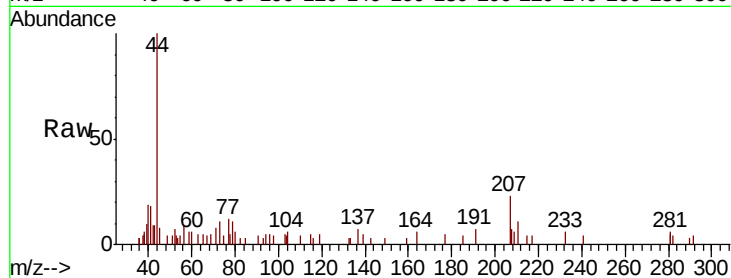
Tot Ion: 53 Resp: 322

Ion Ratio Lower Upper

53 100

52 68.9 77.2 115.8#

51 0.0 40.6 61.0#



#16

Acetone

Concen: 24.973 ug/l

RT: 2.36 min Scan# 185

Delta R.T. 0.01 min

Lab File: VF062514.D

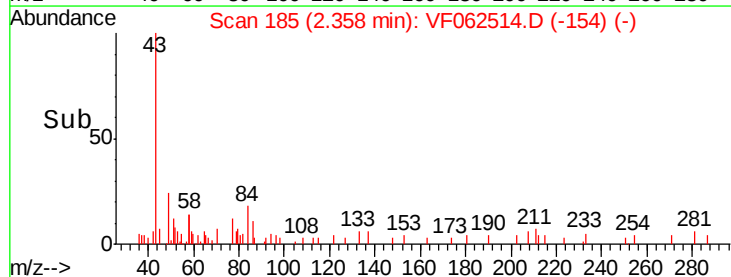
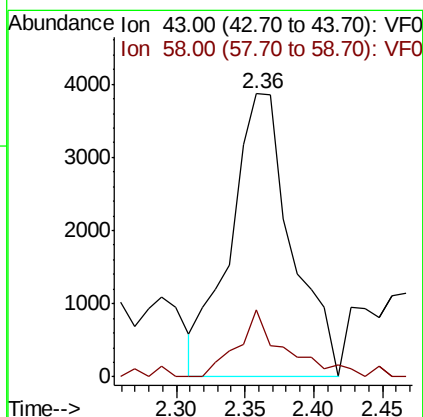
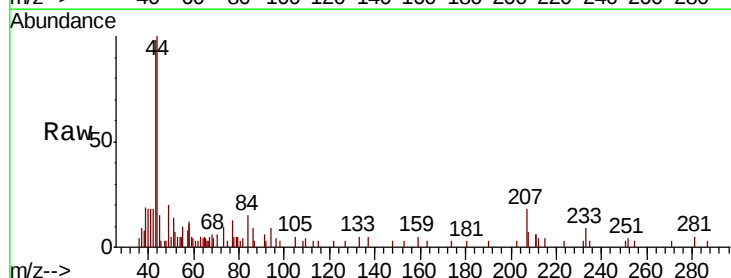
Acq: 12 May 2019 20:24

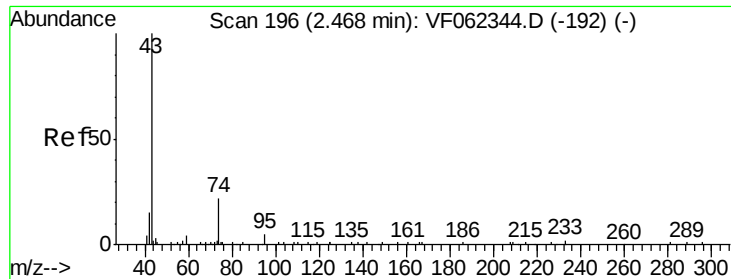
Tgt Ion: 43 Resp: 11996

Ion Ratio Lower Upper

43 100

58 23.7 13.1 19.7#

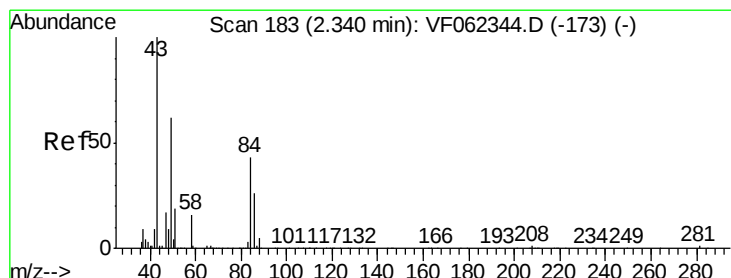
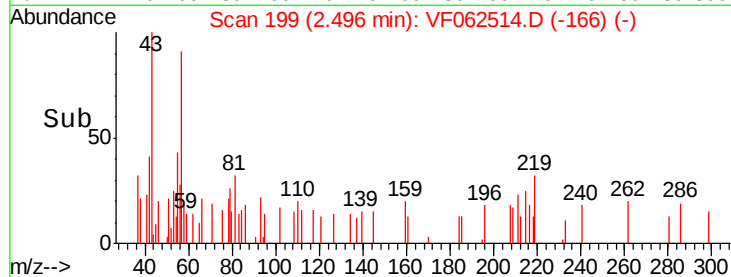
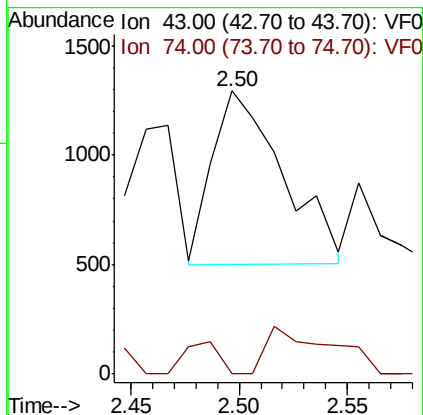
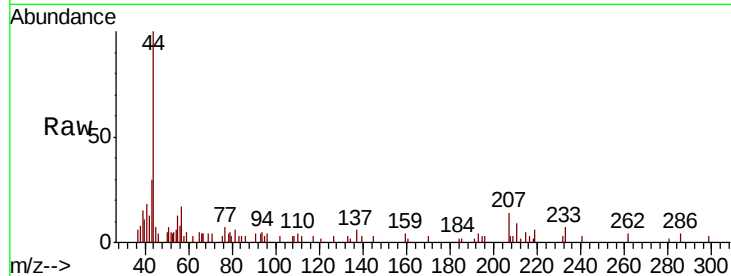




#18
Methyl Acetate
Concen: Below Cal
RT: 2.50 min Scan# 199
Delta R.T. 0.03 min
Lab File: VF062514.D
Acq: 12 May 2019 20:24

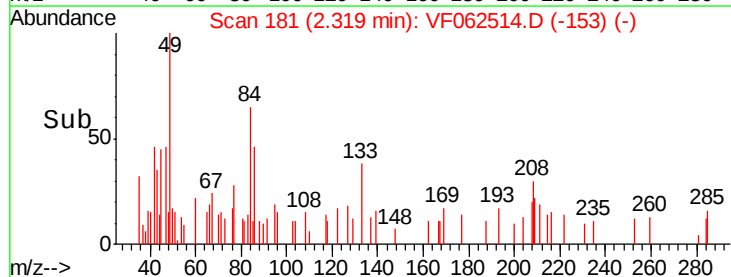
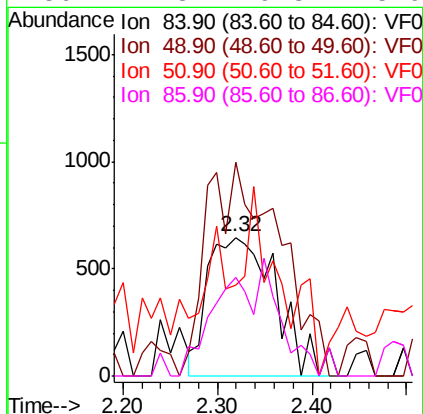
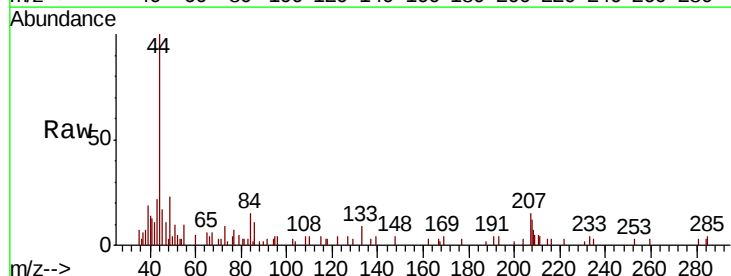
Instrument :
MSVOA_F
ClientSampleId :
P026-SS014-1824-01RE

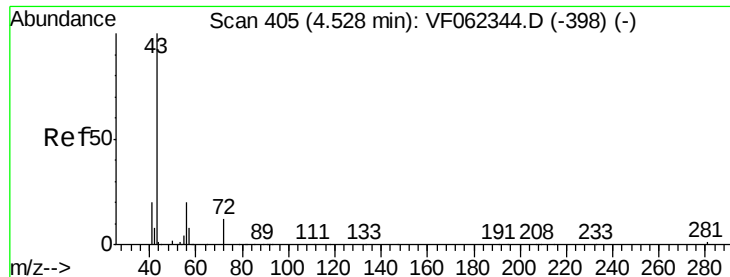
Tot Ion: 43 Resp: 1799
Ion Ratio Lower Upper
43 100
74 8.8 15.0 22.4#



#20
Methylene Chloride
Concen: 1.899 ug/l
RT: 2.32 min Scan# 181
Delta R.T. -0.02 min
Lab File: VF062514.D
Acq: 12 May 2019 20:24

Tgt Ion: 84 Resp: 3300
Ion Ratio Lower Upper
84 100
49 154.4 117.5 176.3
51 30.7 37.0 55.4#
86 71.3 49.3 73.9





#25

2-Butanone

Concen: 1.829 ug/l

RT: 4.53 min Scan# 405

Delta R.T. -0.00 min

Lab File: VF062514.D

Acq: 12 May 2019 20:24

Instrument :

MSVOA_F

ClientSampleId :

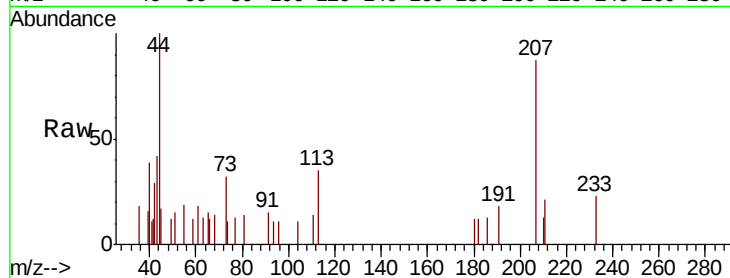
P026-SS014-1824-01RE

Tot Ion: 43 Resp: 1104

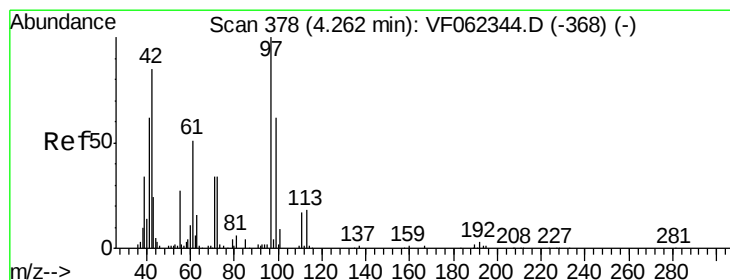
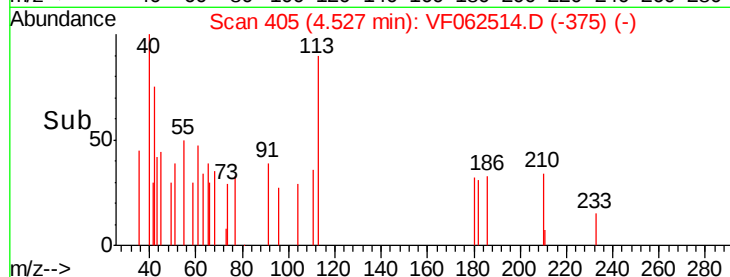
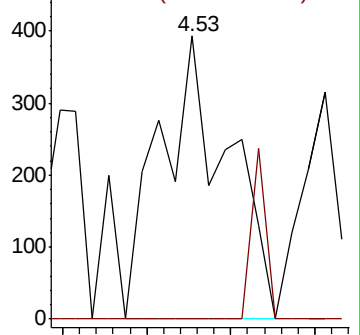
Ion Ratio Lower Upper

43 100

72 0.0 14.2 21.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0



#29

Tetrahydrofuran

Concen: 3.263 ug/l

RT: 4.29 min Scan# 381

Delta R.T. 0.03 min

Lab File: VF062514.D

Acq: 12 May 2019 20:24

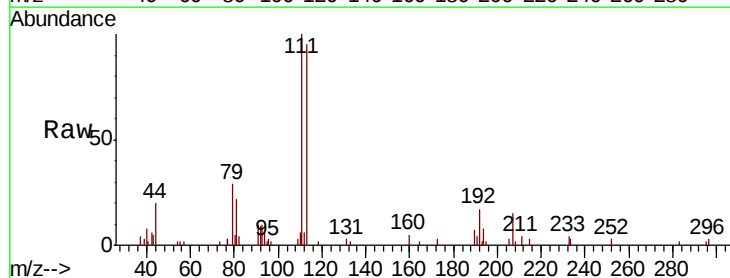
Tgt Ion: 42 Resp: 905

Ion Ratio Lower Upper

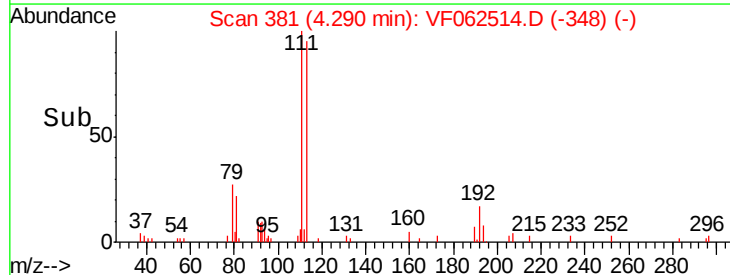
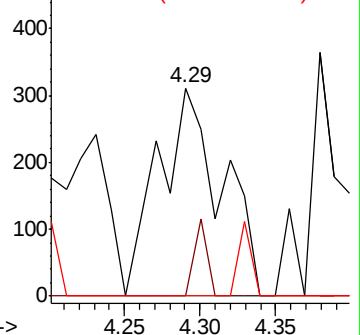
42 100

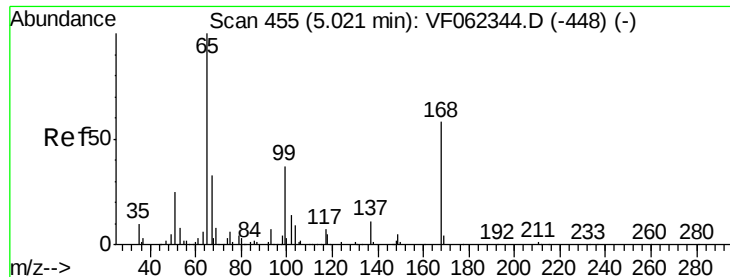
72 7.6 31.4 47.0#

71 0.0 31.7 47.5#



Abundance Ion 42.00 (41.70 to 42.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 42.135 ug/l

RT: 5.05 min Scan# 458

Delta R.T. 0.03 min

Lab File: VF062514.D

Acq: 12 May 2019 20:24

Instrument :

MSVOA_F

ClientSampleId :

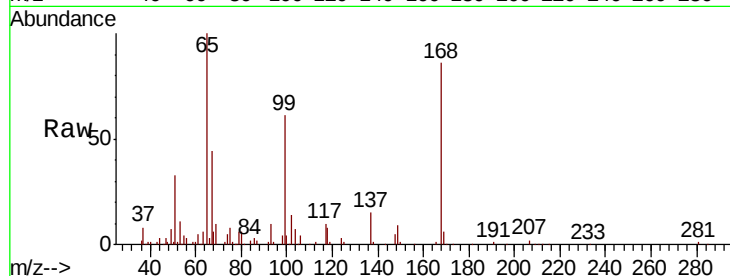
P026-SS014-1824-01RE

Tot Ion: 65 Resp: 100054

Ion Ratio Lower Upper

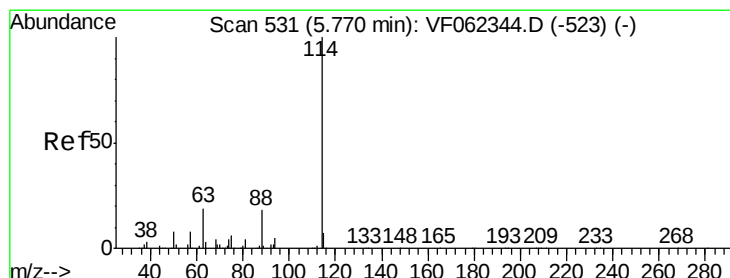
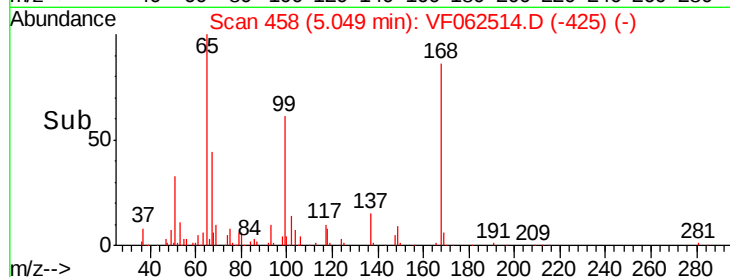
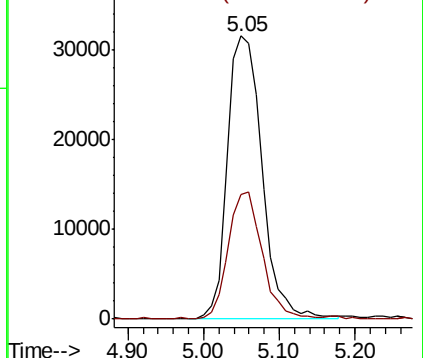
65 100

67 44.0 0.0 85.8



Abundance Ion 64.90 (64.60 to 65.60): VF0

Ion 66.90 (66.60 to 67.60): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.80 min Scan# 534

Delta R.T. 0.03 min

Lab File: VF062514.D

Acq: 12 May 2019 20:24

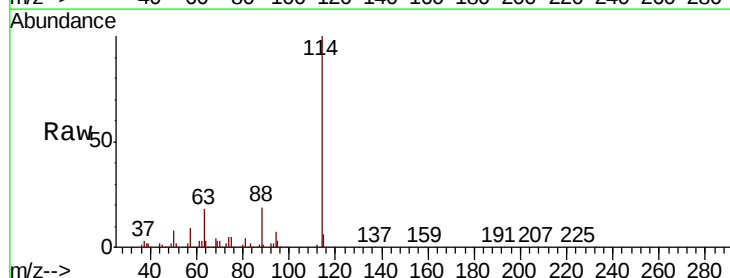
Tgt Ion: 114 Resp: 336714

Ion Ratio Lower Upper

114 100

63 18.2 0.0 37.4

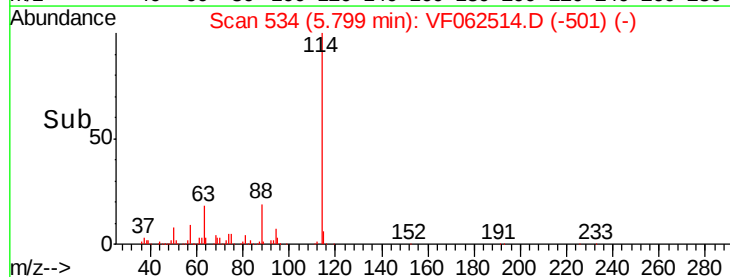
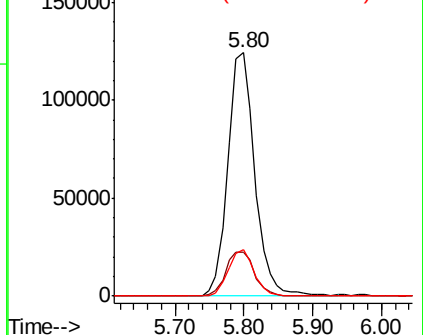
88 19.3 0.0 36.4

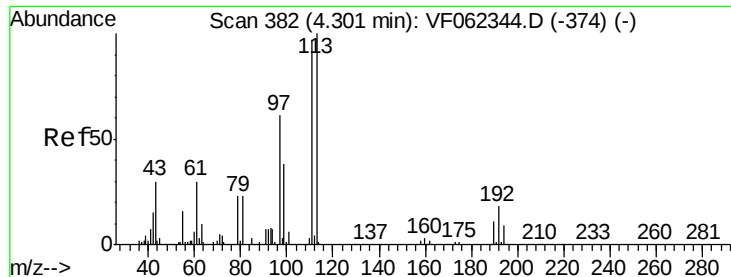


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 87.90 (87.60 to 88.60): VF0





#35

Dibromofluoromethane

Concen: 45.206 ug/l

RT: 4.33 min Scan# 385

Delta R.T. 0.03 min

Lab File: VF062514.D

Acq: 12 May 2019 20:24

Instrument :

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ClientSampleId :

P026-SS014-1824-01RE

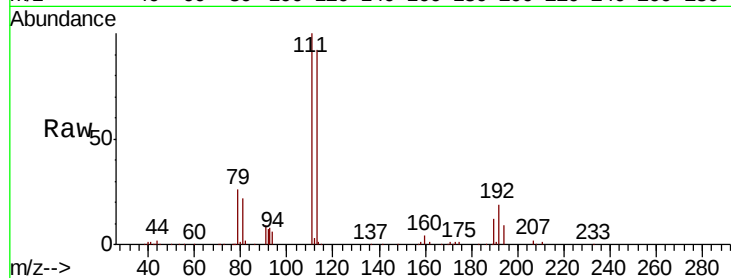
Tot Ion:113 Resp: 121268

Ion Ratio Lower Upper

113 100

111 103.2 79.4 119.0

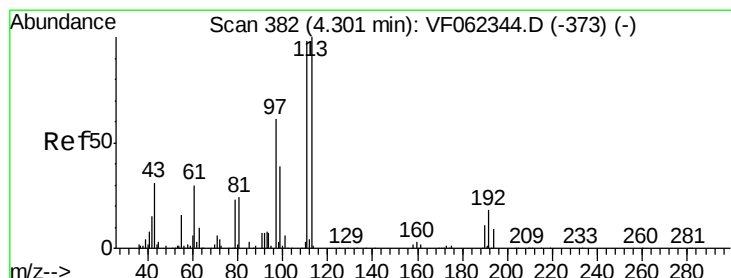
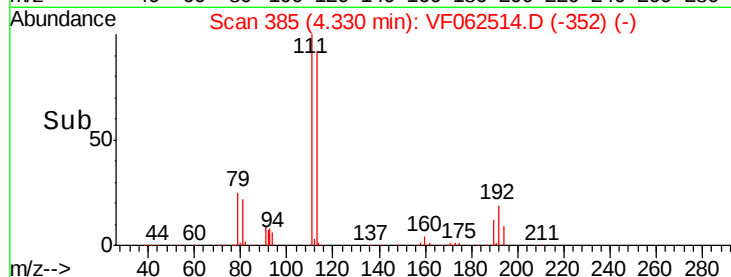
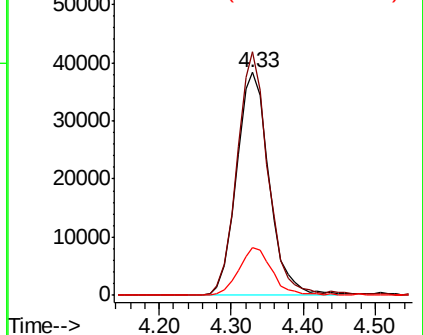
192 22.0 16.0 24.0



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: 4.32 min Scan# 384

Delta R.T. 0.02 min

Lab File: VF062514.D

Acq: 12 May 2019 20:24

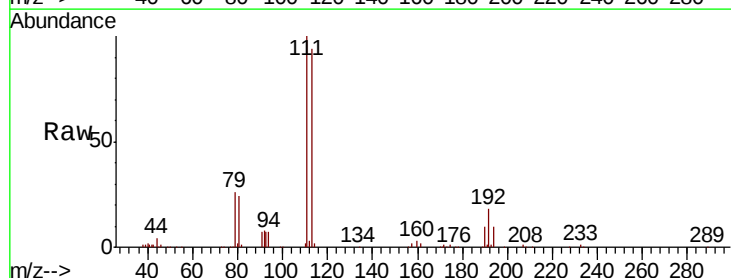
Tgt Ion: 43 Resp: 371

Ion Ratio Lower Upper

43 100

61 41.2 0.0 0.0#

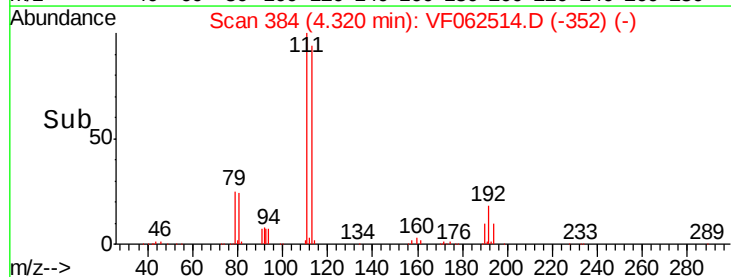
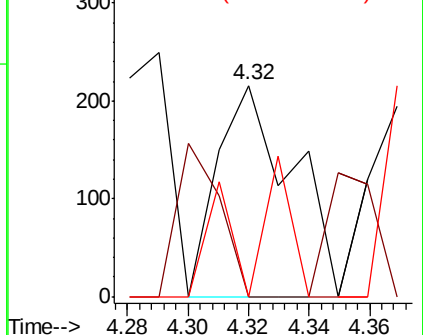
70 18.6 8.2 12.2#

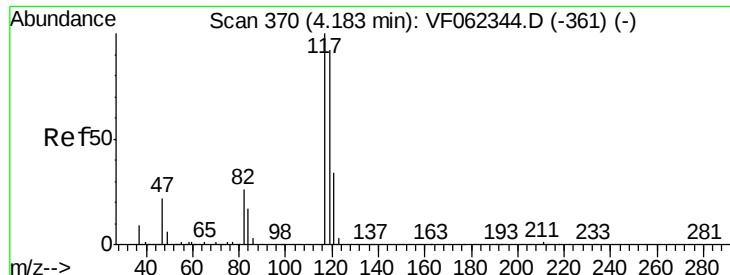


Abundance Ion 43.00 (42.70 to 43.70): VF0

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: 4.20 min Scan# 372

Delta R.T. 0.02 min

Lab File: VF062514.D

Acq: 12 May 2019 20:24

Instrument :

MSVOA_F

ClientSampleId :

P026-SS014-1824-01RE

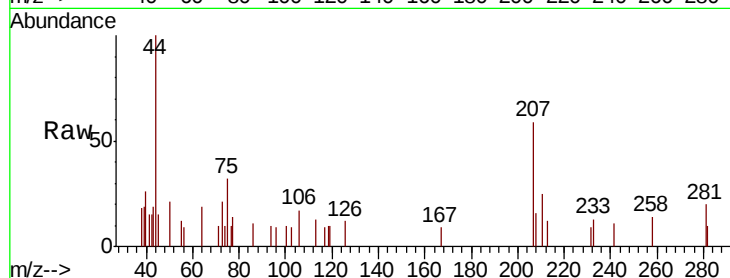
Tot Ion:117 Resp: 62

Ion Ratio Lower Upper

117 100

119 220.2 73.4 110.2#

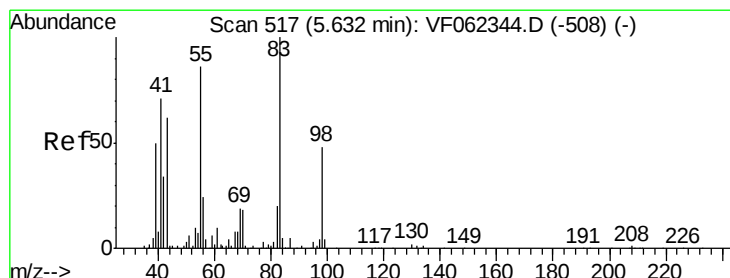
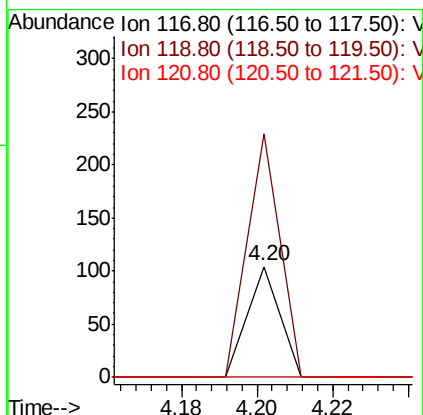
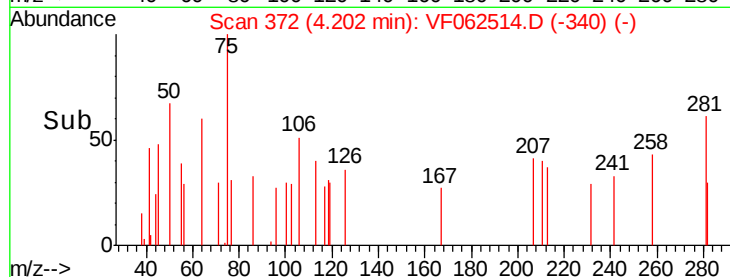
121 0.0 27.4 41.0#



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: 1.850 ug/l

RT: 5.80 min Scan# 534

Delta R.T. 0.17 min

Lab File: VF062514.D

Acq: 12 May 2019 20:24

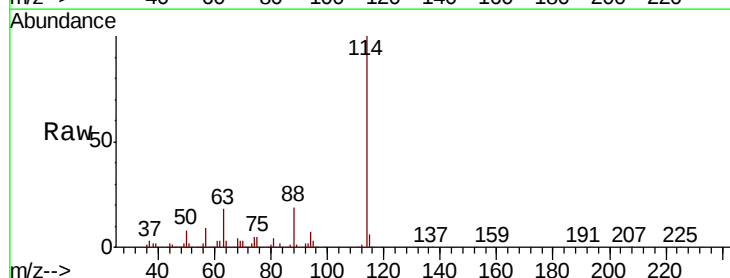
Tgt Ion: 83 Resp: 5367

Ion Ratio Lower Upper

83 100

55 25.7 69.0 103.6#

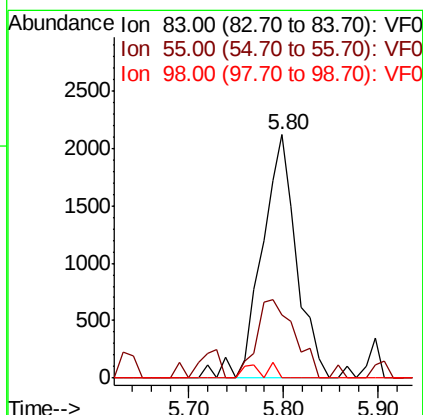
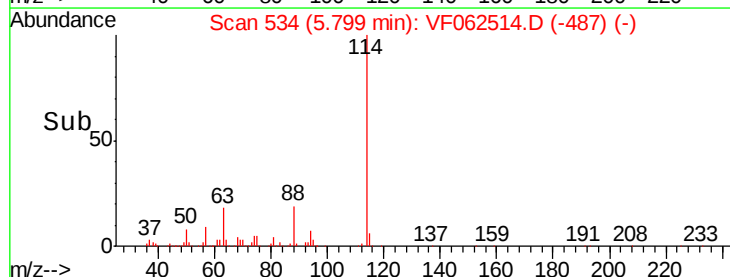
98 0.0 38.6 58.0#

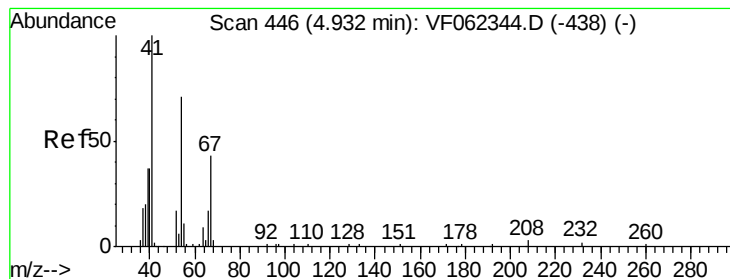


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#41

Methacrylonitrile

Concen: 1.198 ug/l

RT: 4.98 min Scan# 451

Delta R.T. 0.05 min

Lab File: VF062514.D

Acq: 12 May 2019 20:24

Instrument :

MSVOA_F

ClientSampleId :

P026-SS014-1824-01RE

Tot Ion: 41 Resp: 831

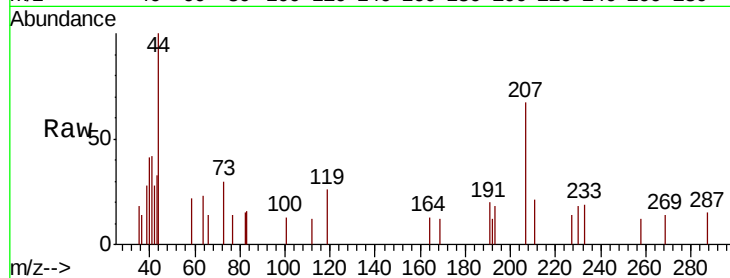
Ion Ratio Lower Upper

41 100

39 41.4 54.3 81.5#

67 0.0 37.8 56.8#

52 0.0 58.2 87.4#

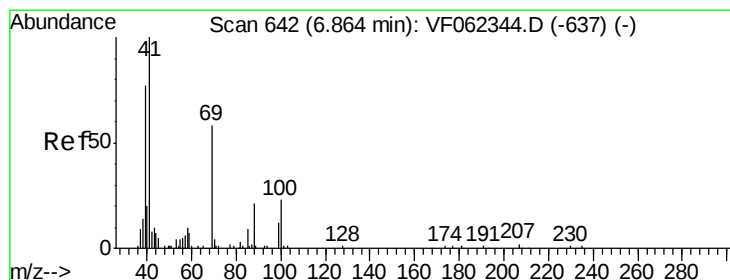
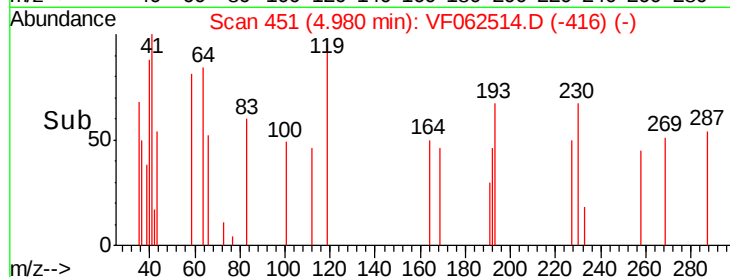
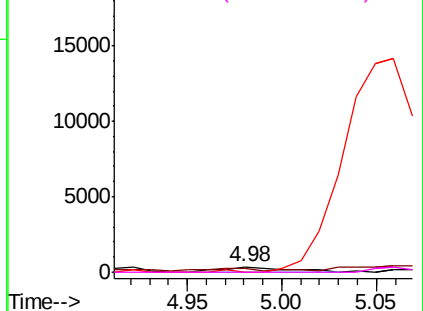


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#49

1,4-Dioxane

Concen: Below Cal

RT: 6.89 min Scan# 645

Delta R.T. 0.03 min

Lab File: VF062514.D

Acq: 12 May 2019 20:24

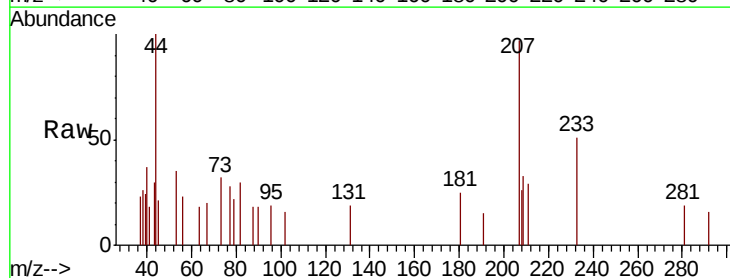
Tgt Ion: 88 Resp: 71

Ion Ratio Lower Upper

88 100

43 0.0 55.6 83.4#

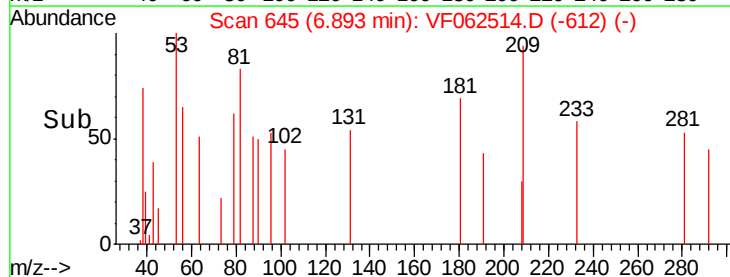
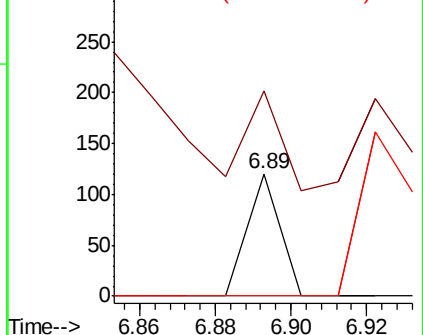
58 0.0 52.8 79.2#

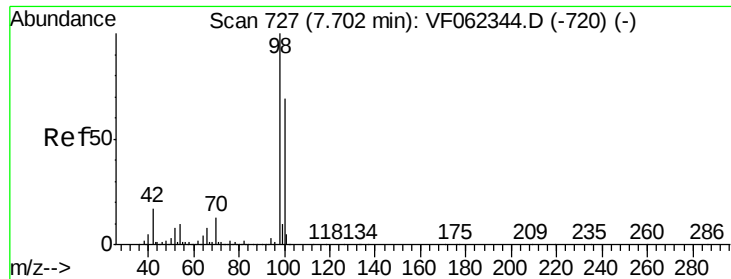


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 35.638 ug/l

RT: 7.73 min Scan# 730

Delta R.T. 0.03 min

Lab File: VF062514.D

Acq: 12 May 2019 20:24

Instrument :

MSVOA_F

ClientSampleId :

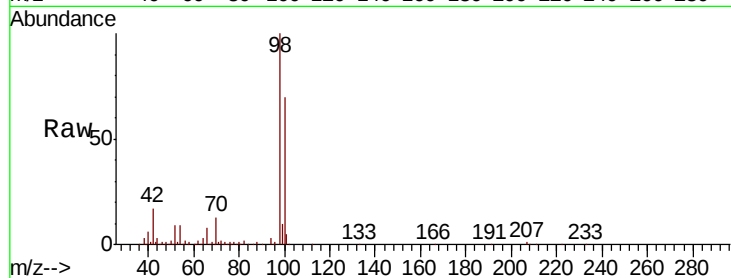
P026-SS014-1824-01RE

Tot Ion: 98 Resp: 231415

Ion Ratio Lower Upper

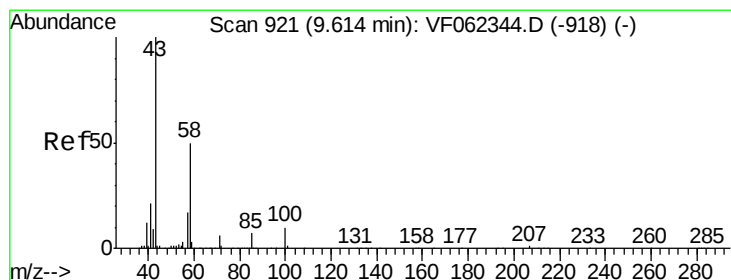
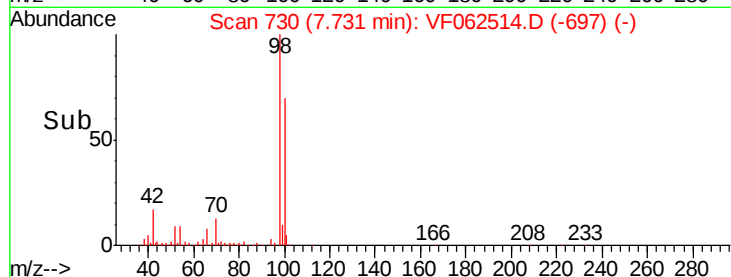
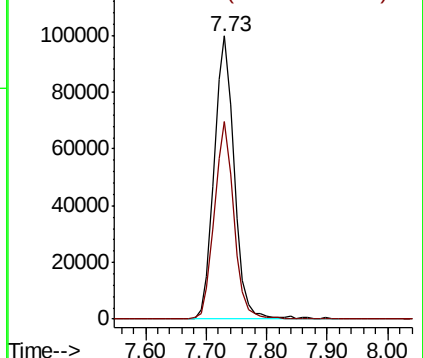
98 100

100 67.4 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#59

2-Hexanone

Concen: 1.052 ug/l

RT: 9.62 min Scan# 922

Delta R.T. 0.01 min

Lab File: VF062514.D

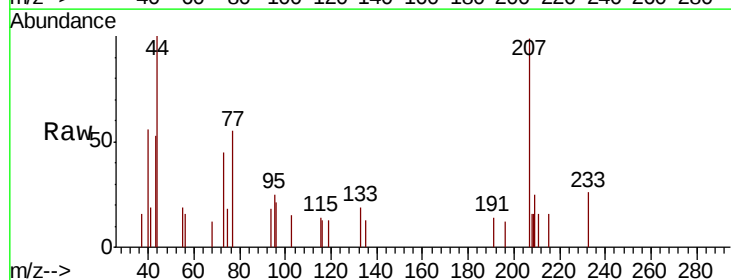
Acq: 12 May 2019 20:24

Tgt Ion: 43 Resp: 725

Ion Ratio Lower Upper

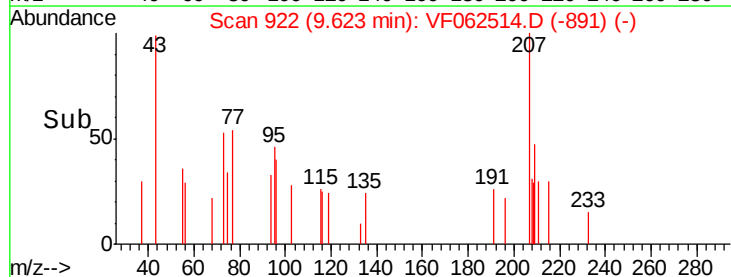
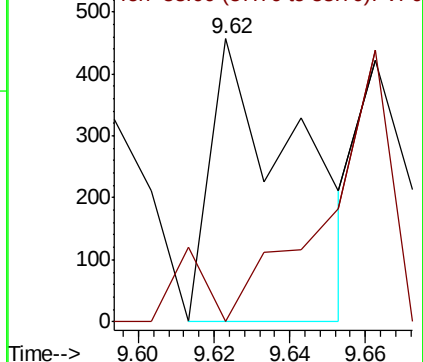
43 100

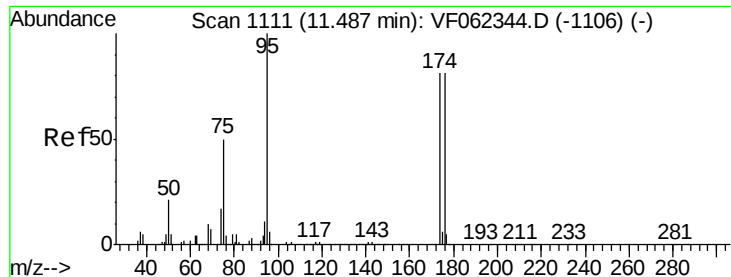
58 0.0 24.3 73.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 29.873 ug/l

RT: 11.51 min Scan# 1113

Delta R.T. 0.02 min

Lab File: VF062514.D

Acq: 12 May 2019 20:24

Instrument :

MSVOA_F

ClientSampleId :

P026-SS014-1824-01RE

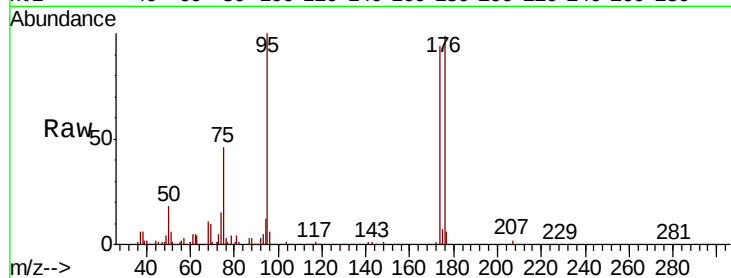
Tot Ion: 95 Resp: 87518

Ion Ratio Lower Upper

95 100

174 101.9 0.0 191.8

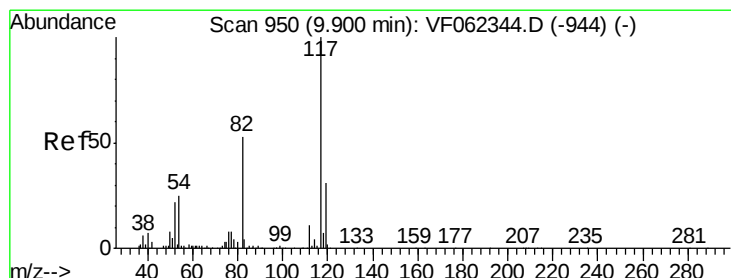
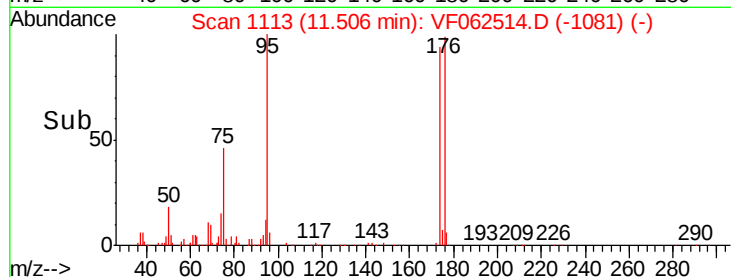
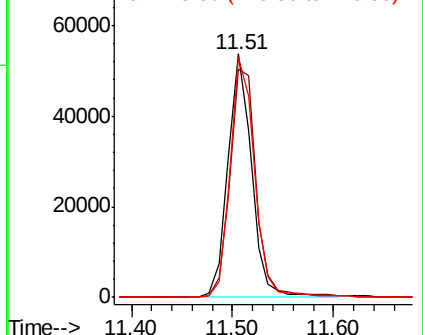
176 101.9 0.0 193.2



Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.93 min Scan# 953

Delta R.T. 0.03 min

Lab File: VF062514.D

Acq: 12 May 2019 20:24

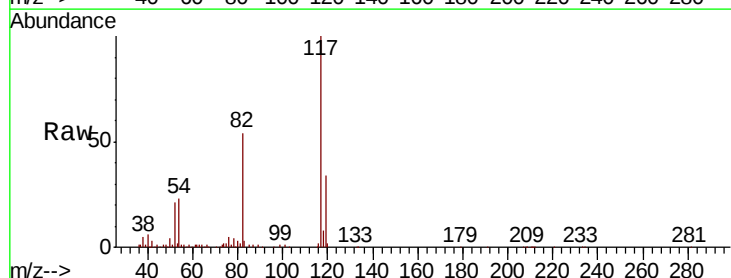
Tgt Ion: 117 Resp: 254185

Ion Ratio Lower Upper

117 100

82 53.7 42.2 63.2

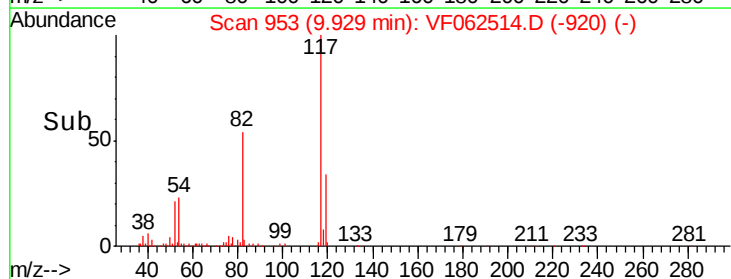
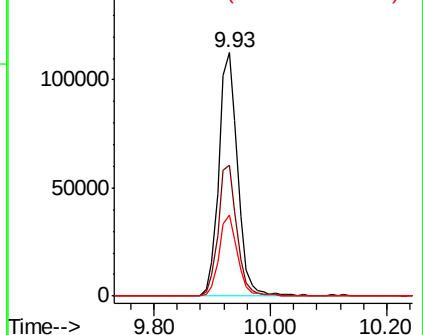
119 33.5 25.0 37.4

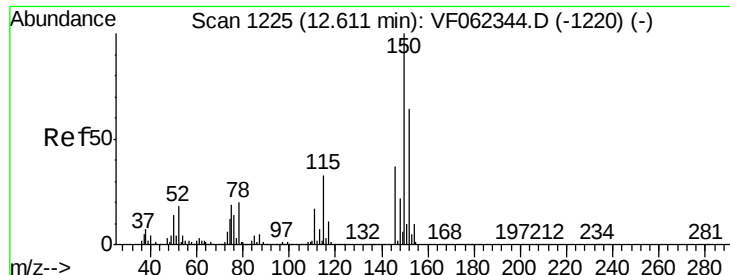


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1226

Delta R.T. 0.01 min

Lab File: VF062514.D

Acq: 12 May 2019 20:24

Instrument :

MSVOA_F

ClientSampleId :

P026-SS014-1824-01RE

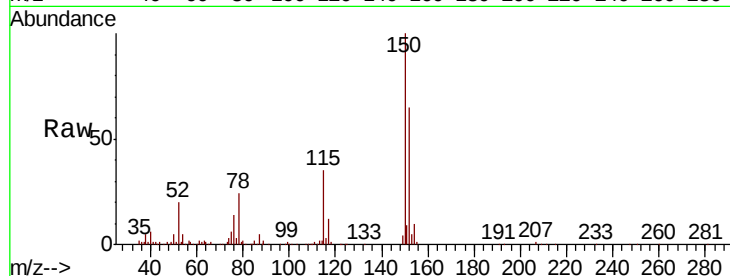
Tot Ion:152 Resp: 112219

Ion Ratio Lower Upper

152 100

115 53.7 26.4 79.2

150 154.5 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

