

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051319\
 Data File : VF062553.D
 Acq On : 13 May 2019 20:35
 Operator : FY/SY
 Sample : K2733-07RE
 Misc : 6.55g/5mL/MSVOA F/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P021-SS001-1218-01RE

Quant Time: May 14 07:04:44 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	248762	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	5.80	114	346474	50.00	ug/l	0.03
63) Chlorobenzene-d5	9.93	117	253616	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.62	152	117704	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	101881	43.34	ug/l	0.03
Spiked Amount 50.000			Recovery =	86.68%		
35) Dibromofluoromethane	4.33	113	125598	45.50	ug/l	0.03
Spiked Amount 50.000			Recovery =	91.00%		
50) Toluene-d8	7.73	98	228802	34.24	ug/l	0.03
Spiked Amount 50.000			Recovery =	68.48%		
62) 4-Bromofluorobenzene	11.51	95	89681	29.75	ug/l	0.02
Spiked Amount 50.000			Recovery =	59.50%		

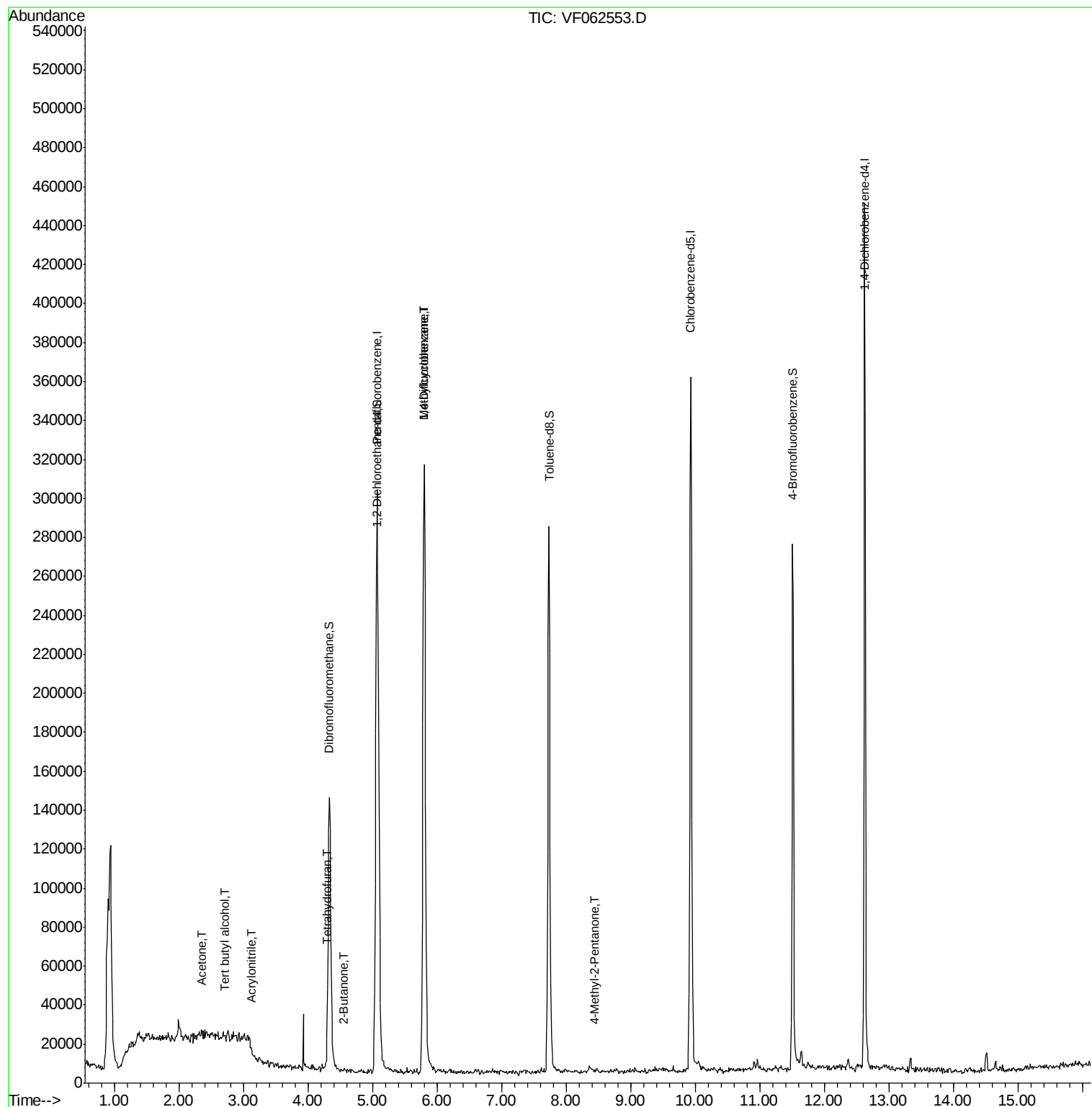
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.46	94	399	Below Cal	#	3
11) Tert butyl alcohol	2.70	59	314	2.363	ug/l #	70
13) Acrolein	2.11	56	905	Below Cal	#	36
15) Acrylonitrile	3.12	53	303	1.204	ug/l #	1
16) Acetone	2.36	43	7287	15.323	ug/l #	77
18) Methyl Acetate	2.48	43	931	Below Cal	#	1
25) 2-Butanone	4.56	43	1116	1.868	ug/l #	60
29) Tetrahydrofuran	4.29	42	687	2.502	ug/l #	45
37) Ethyl Acetate	4.31	43	340	Below Cal	#	73
38) Carbon Tetrachloride	4.21	117	115	Below Cal	#	80
39) Methylcyclohexane	5.80	83	5945	1.992	ug/l #	28
49) 1,4-Dioxane	6.90	88	63	Below Cal	#	16
51) 4-Methyl-2-Pentanone	8.44	43	1520	1.482	ug/l #	40

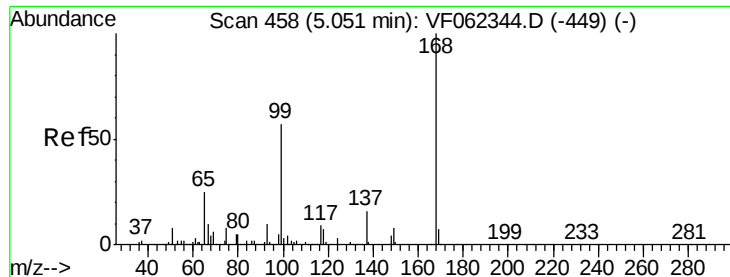
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.08 min Scan# 461

Delta R.T. 0.03 min

Lab File: VF062553.D

Acq: 13 May 2019 20:35

Instrument :

MSVOA_F

ClientSampleId :

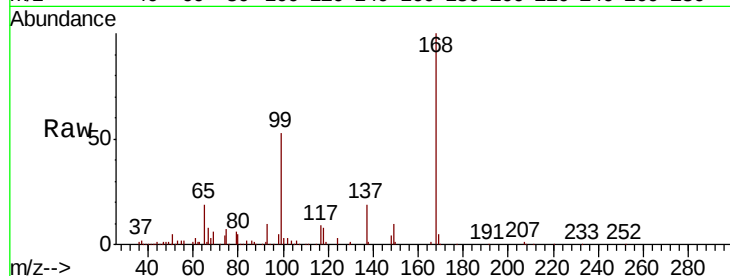
P021-SS001-1218-01RE

Tot Ion:168 Resp: 248762

Ion Ratio Lower Upper

168 100

99 53.3 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

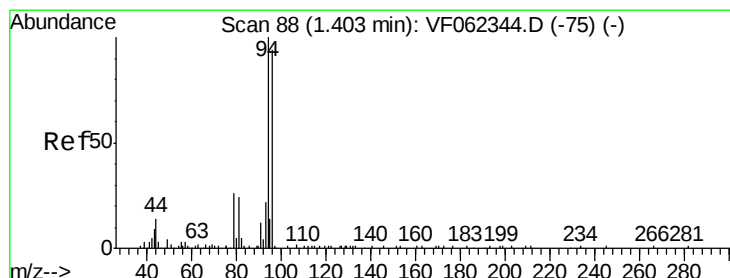
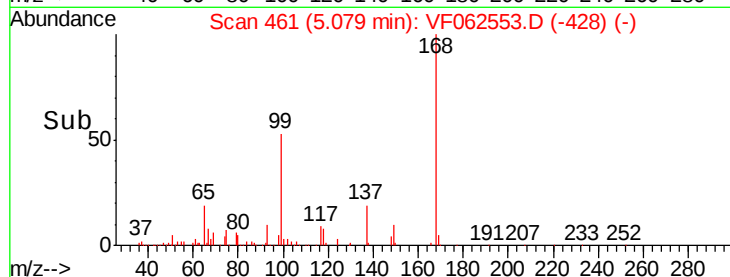
40000

20000

0

Time-->

4.90 5.00 5.10 5.20 5.30



#5

Bromomethane

Concen: Below Cal

RT: 1.46 min Scan# 94

Delta R.T. 0.06 min

Lab File: VF062553.D

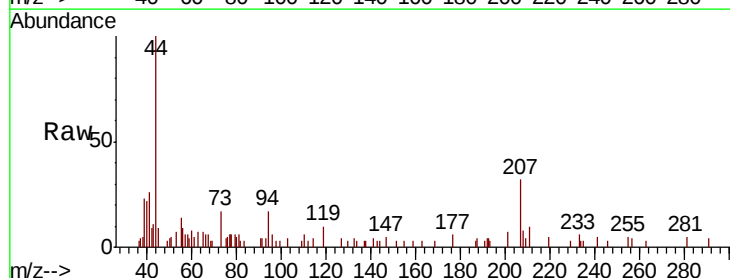
Acq: 13 May 2019 20:35

Tgt Ion: 94 Resp: 399

Ion Ratio Lower Upper

94 100

96 0.0 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

1.46

600

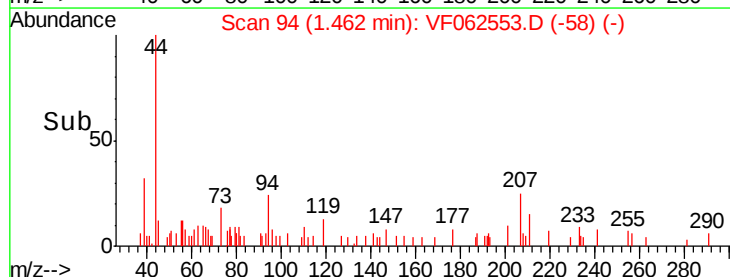
400

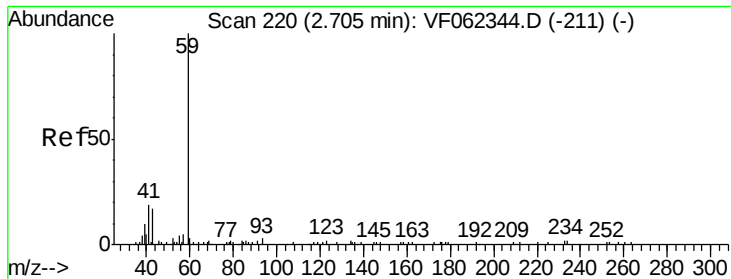
200

0

Time-->

1.42 1.44 1.46 1.48



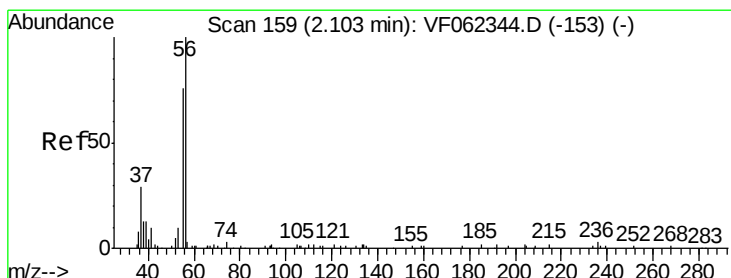
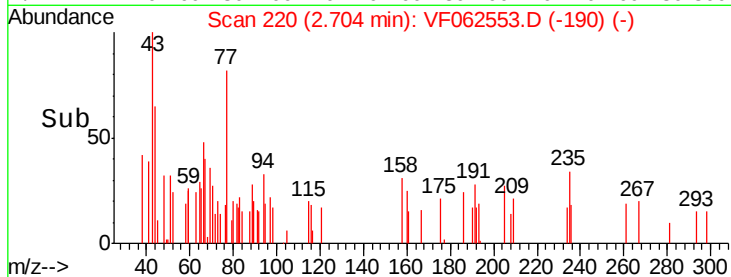
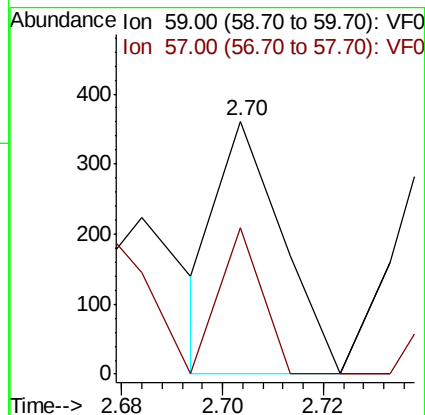
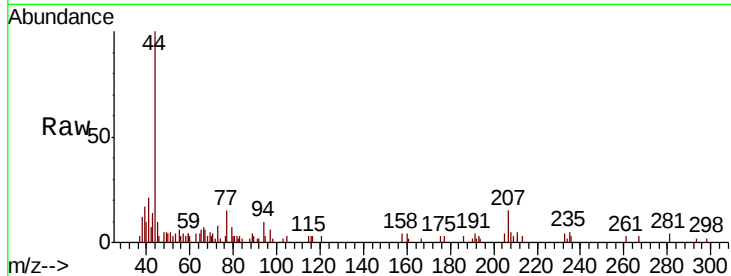


#11

Tert butyl alcohol
 Concen: 2.363 ug/l
 RT: 2.70 min Scan# 220
 Delta R.T. -0.00 min
 Lab File: VF062553.D
 Acq: 13 May 2019 20:35

Instrument :
 MSVOA_F
 ClientSampleId :
 P021-SS001-1218-01RE

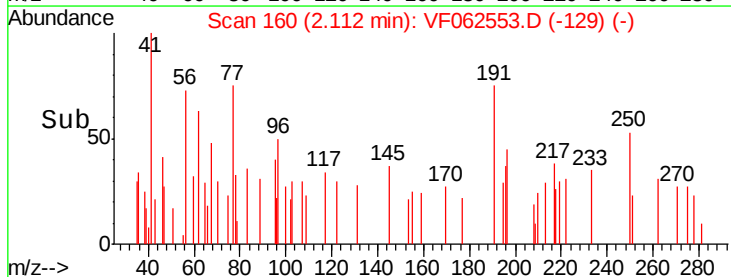
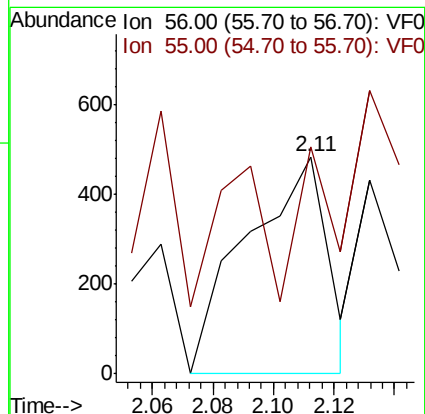
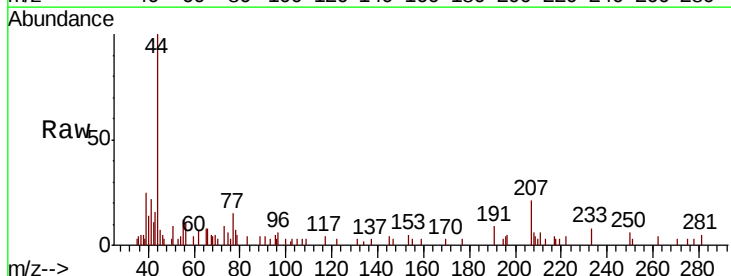
Tot Ion: 59 Resp: 314
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.3 13.9#



#13

Acrolein
 Concen: Below Cal
 RT: 2.11 min Scan# 160
 Delta R.T. 0.01 min
 Lab File: VF062553.D
 Acq: 13 May 2019 20:35

Tgt Ion: 56 Resp: 905
 Ion Ratio Lower Upper
 56 100
 55 127.1 58.4 87.6#





#15

Acrylonitrile

Concen: 1.204 ug/l

RT: 3.12 min Scan# 262

Delta R.T. 0.03 min

Lab File: VF062553.D

Acq: 13 May 2019 20:35

Instrument :

MSVOA_F

ClientSampleId :

P021-SS001-1218-01RE

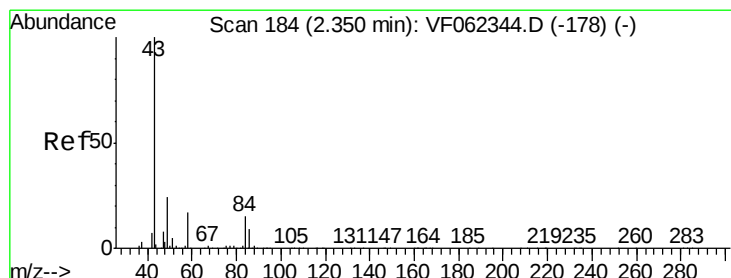
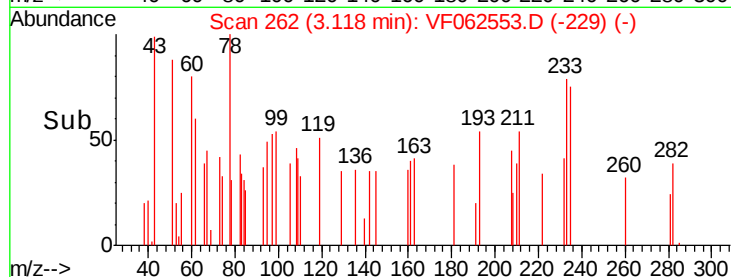
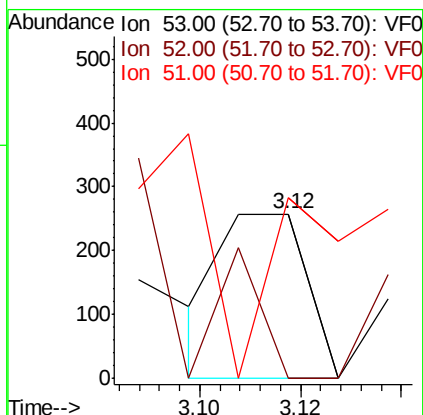
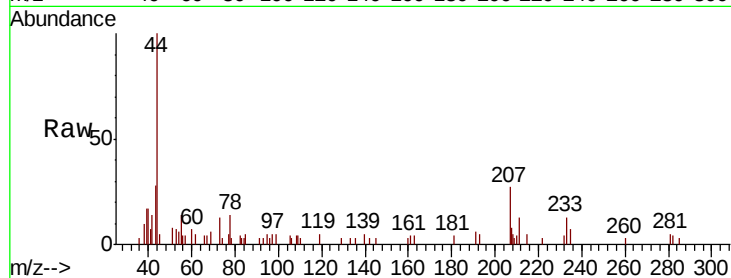
Tot Ion: 53 Resp: 303

Ion Ratio Lower Upper

53 100

52 0.0 77.2 115.8#

51 238.3 40.6 61.0#



#16

Acetone

Concen: 15.323 ug/l

RT: 2.36 min Scan# 185

Delta R.T. 0.01 min

Lab File: VF062553.D

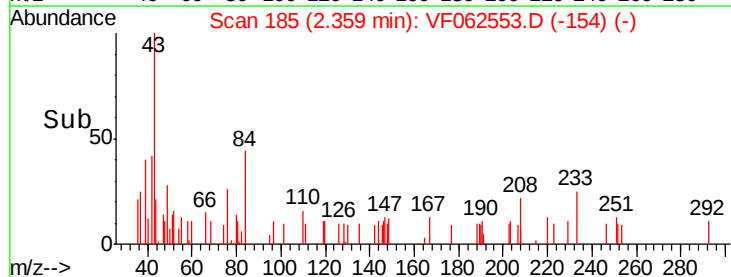
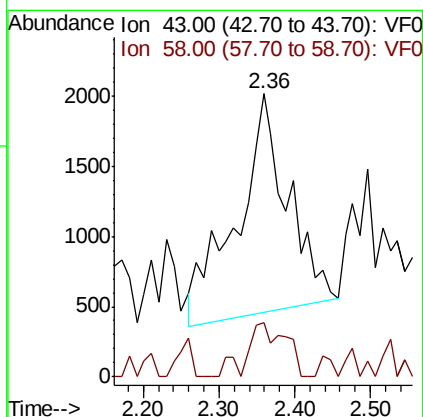
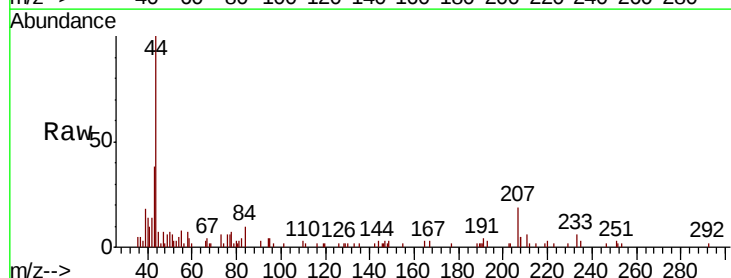
Acq: 13 May 2019 20:35

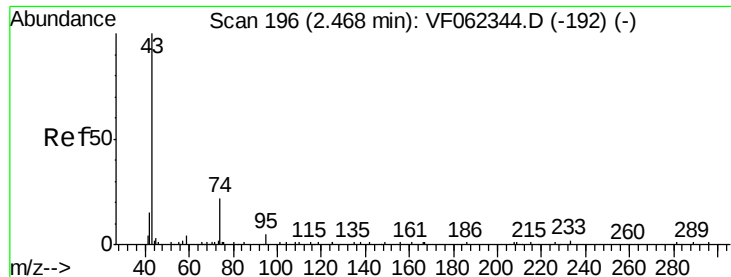
Tgt Ion: 43 Resp: 7287

Ion Ratio Lower Upper

43 100

58 26.3 13.1 19.7#

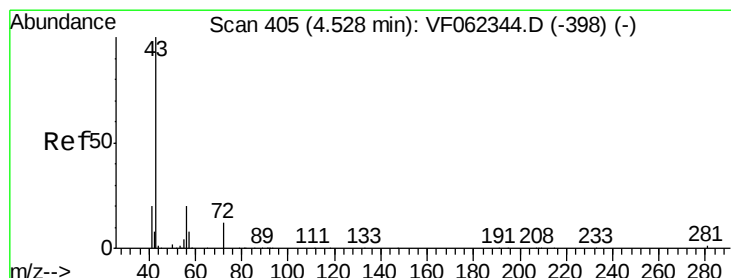
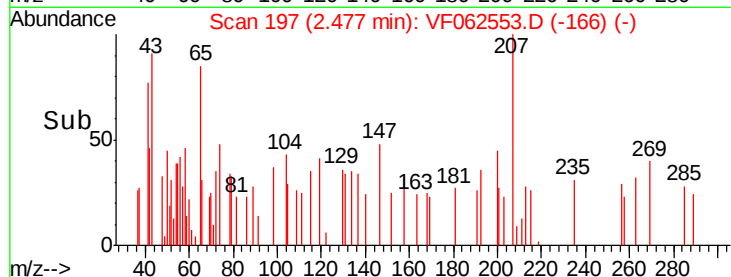
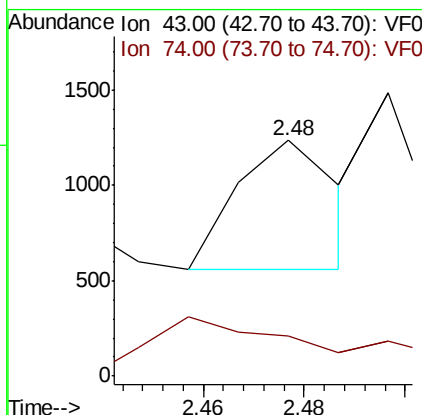
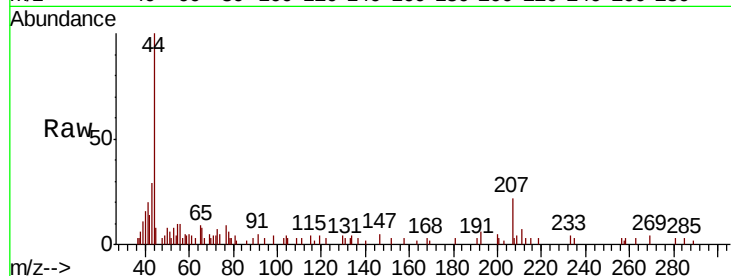




#18
Methyl Acetate
Concen: Below Cal
RT: 2.48 min Scan# 197
Delta R.T. 0.01 min
Lab File: VF062553.D
Acq: 13 May 2019 20:35

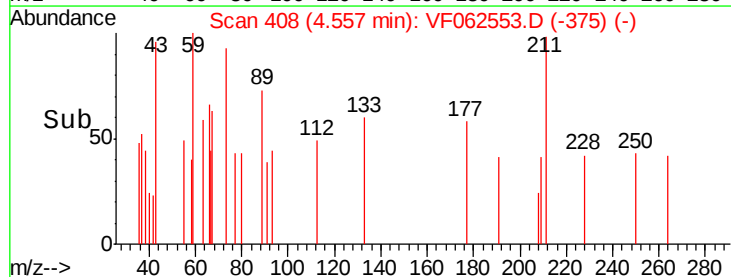
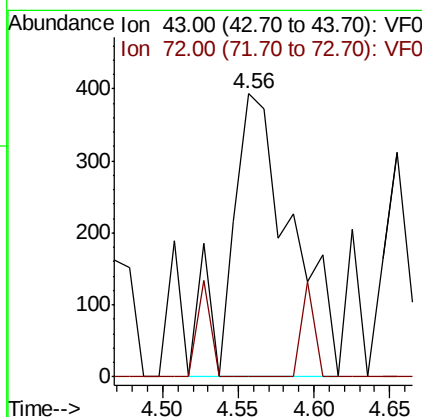
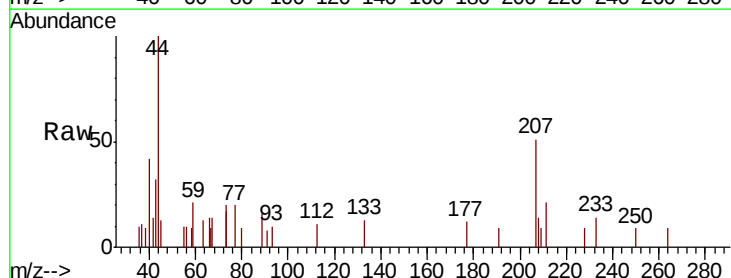
Instrument :
MSVOA_F
ClientSampleId :
P021-SS001-1218-01RE

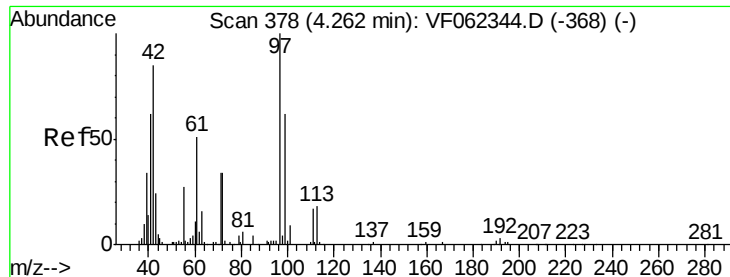
Tot Ion: 43 Resp: 931
Ion Ratio Lower Upper
43 100
74 122.8 15.0 22.4#



#25
2-Butanone
Concen: 1.868 ug/l
RT: 4.56 min Scan# 408
Delta R.T. 0.03 min
Lab File: VF062553.D
Acq: 13 May 2019 20:35

Tgt Ion: 43 Resp: 1116
Ion Ratio Lower Upper
43 100
72 0.0 14.2 21.4#





#29

Tetrahydrofuran

Concen: 2.502 ug/l

RT: 4.29 min Scan# 381

Delta R.T. 0.03 min

Lab File: VF062553.D

Acq: 13 May 2019 20:35

Instrument :

MSVOA_F

ClientSampleId :

P021-SS001-1218-01RE

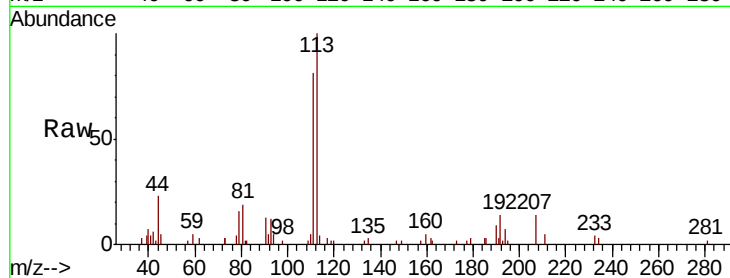
Tot Ion: 42 Resp: 687

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

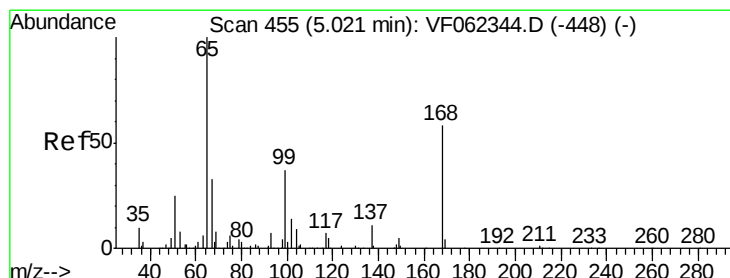
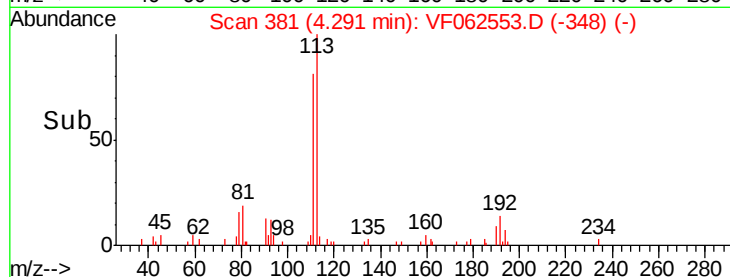
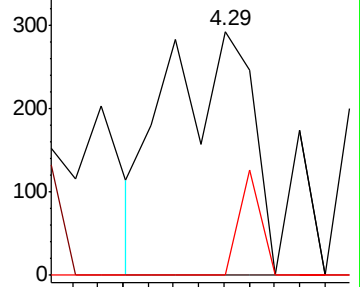
71 10.9 31.7 47.5#



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



#33

1,2-Dichloroethane-d4

Concen: 43.337 ug/l

RT: 5.05 min Scan# 458

Delta R.T. 0.03 min

Lab File: VF062553.D

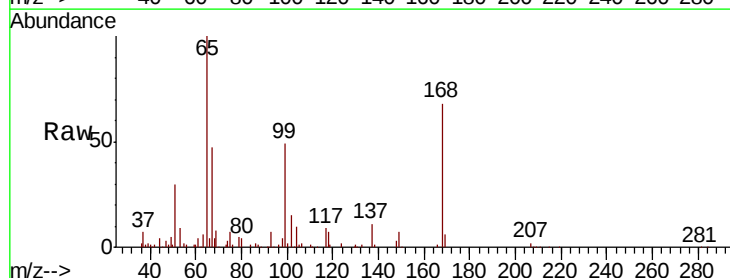
Acq: 13 May 2019 20:35

Tgt Ion: 65 Resp: 101881

Ion Ratio Lower Upper

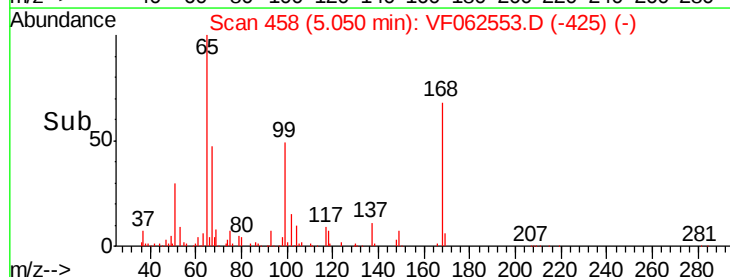
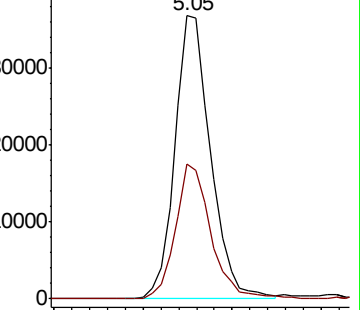
65 100

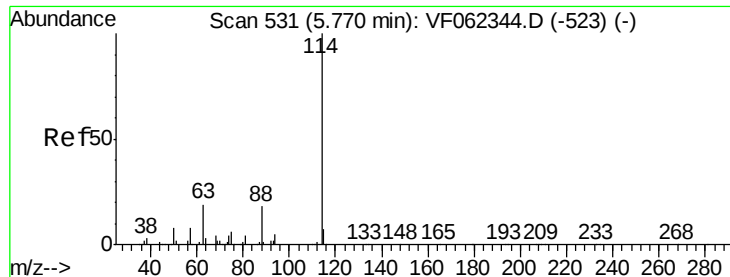
67 47.6 0.0 85.8



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: VF062553.D

Acq: 13 May 2019 20:35

Instrument :

MSVOA_F

ClientSampleId :

P021-SS001-1218-01RE

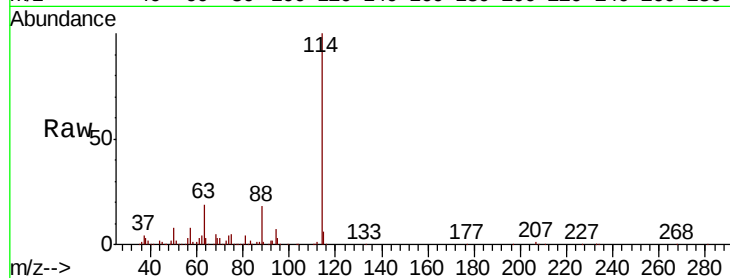
Tot Ion:114 Resp: 346474

Ion Ratio Lower Upper

114 100

63 19.1 0.0 37.4

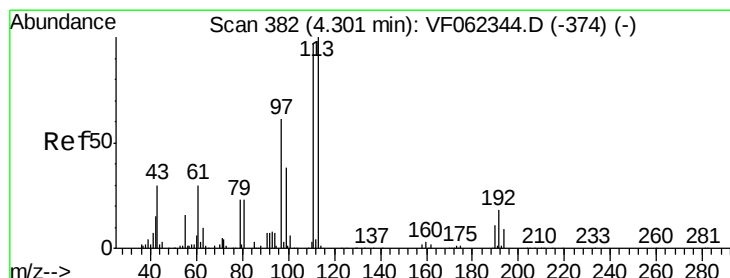
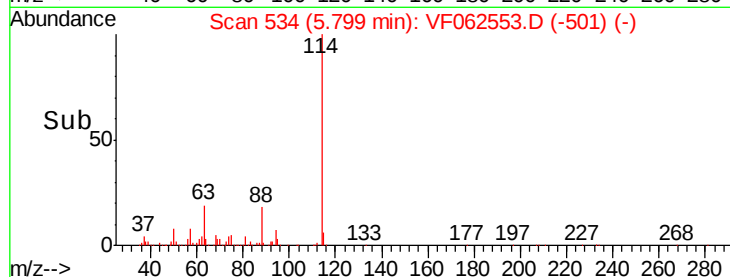
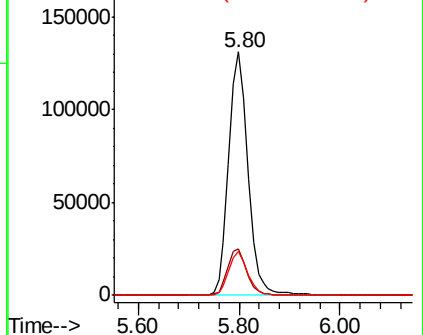
88 18.1 0.0 36.4



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: 45.502 ug/l

RT: 4.33 min Scan# 385

Delta R.T. 0.03 min

Lab File: VF062553.D

Acq: 13 May 2019 20:35

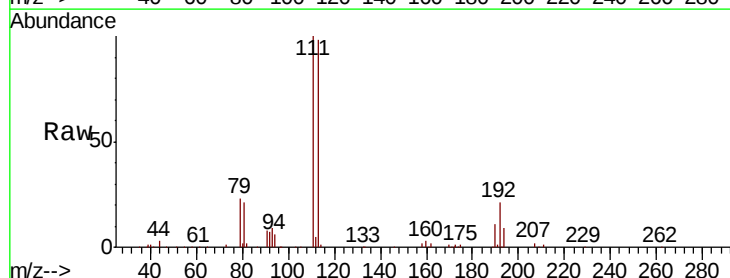
Tgt Ion:113 Resp: 125598

Ion Ratio Lower Upper

113 100

111 101.2 79.4 119.0

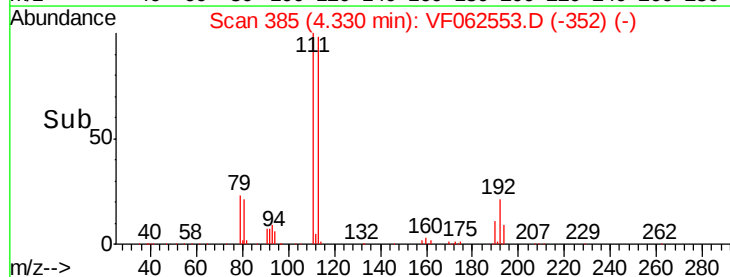
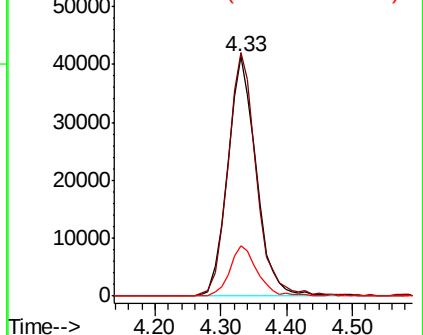
192 20.4 16.0 24.0

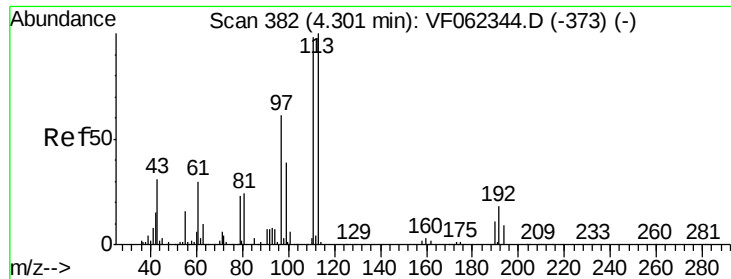


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

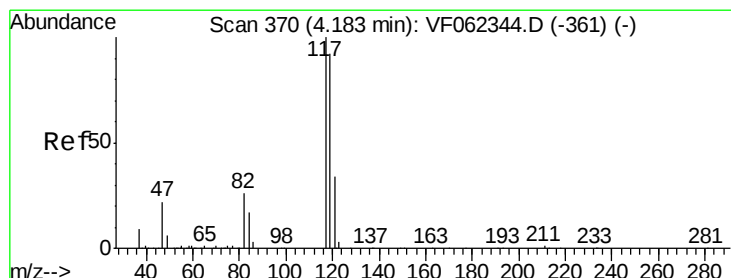
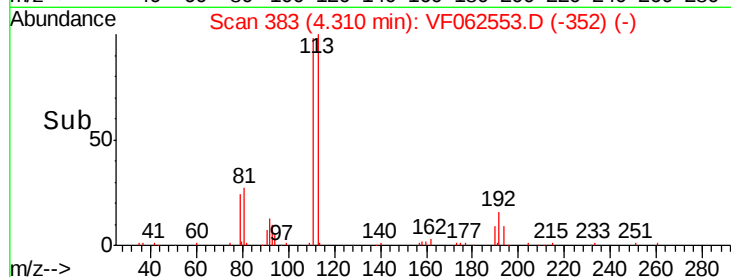
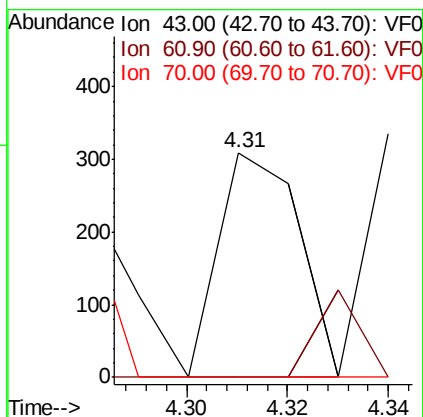
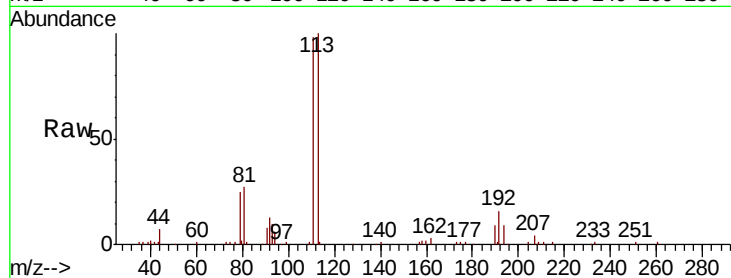




#37
Ethyl Acetate
Concen: Below Cal
RT: 4.31 min Scan# 383
Delta R.T. 0.01 min
Lab File: VF062553.D
Acq: 13 May 2019 20:35

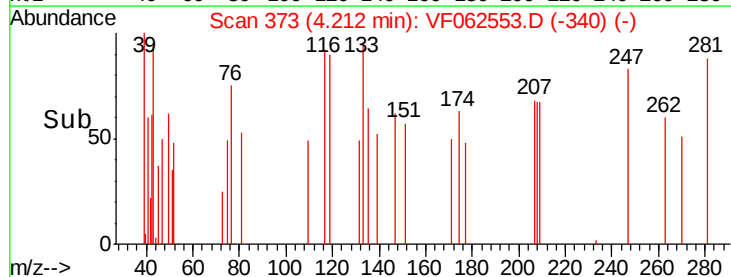
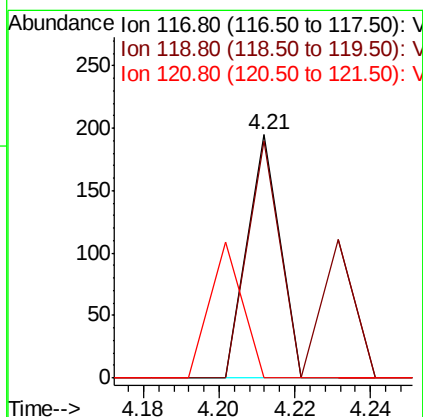
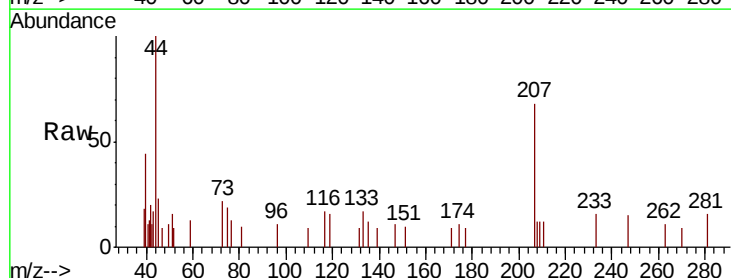
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P021-SS001-1218-01RE

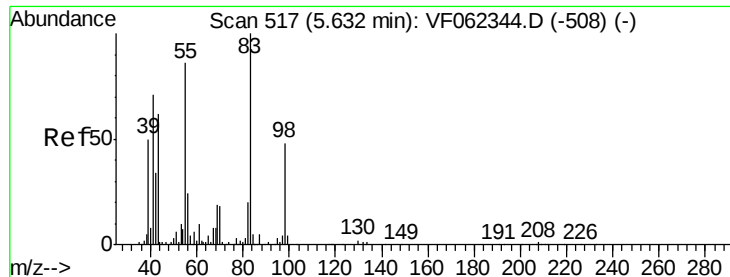
Tot Ion: 43 Resp: 340
Ion Ratio Lower Upper
43 100
61 0.0 0.0 0.0
70 0.0 8.2 12.2#



#38
Carbon Tetrachloride
Concen: Below Cal
RT: 4.21 min Scan# 373
Delta R.T. 0.03 min
Lab File: VF062553.D
Acq: 13 May 2019 20:35

Tgt Ion: 117 Resp: 115
Ion Ratio Lower Upper
117 100
119 97.4 73.4 110.2
121 0.0 27.4 41.0#





#39

Methylcyclohexane

Concen: 1.992 ug/l

RT: 5.80 min Scan# 534

Delta R.T. 0.17 min

Lab File: VF062553.D

Acq: 13 May 2019 20:35

Instrument :

MSVOA_F

ClientSampleId :

P021-SS001-1218-01RE

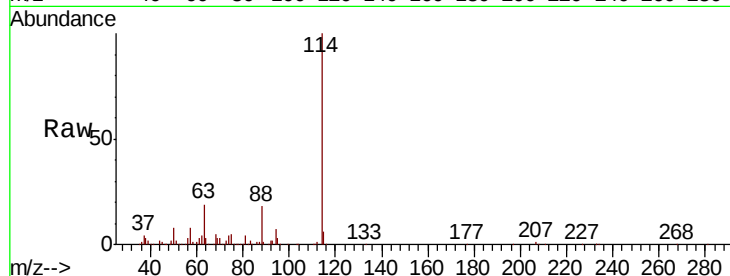
Tot Ion: 83 Resp: 5945

Ion Ratio Lower Upper

83 100

55 19.8 69.0 103.6#

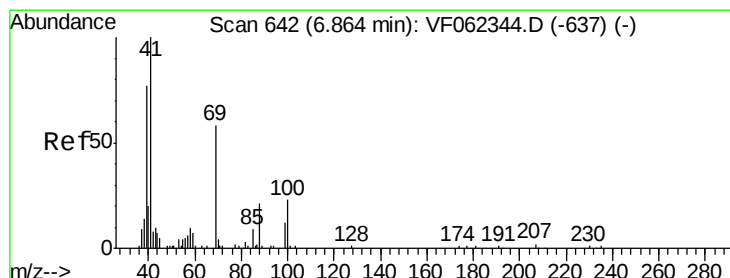
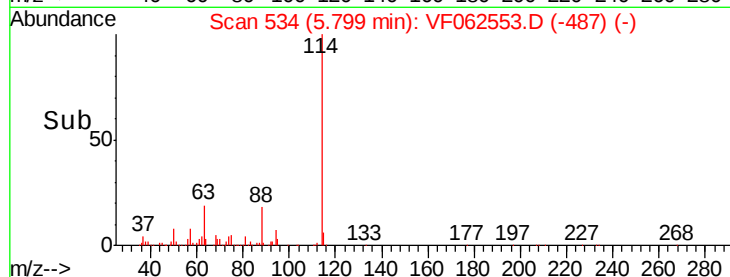
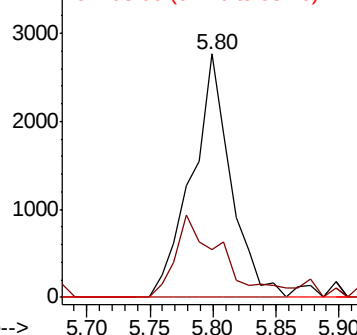
98 0.0 38.6 58.0#



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: 6.90 min Scan# 646

Delta R.T. 0.04 min

Lab File: VF062553.D

Acq: 13 May 2019 20:35

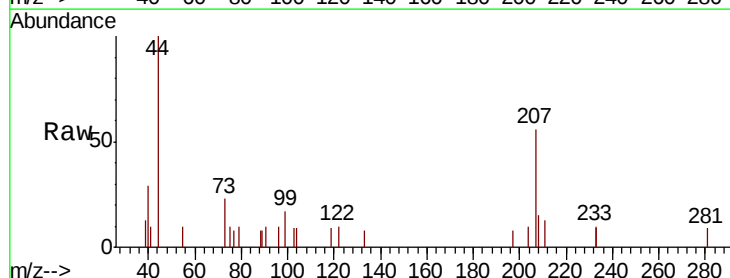
Tgt Ion: 88 Resp: 63

Ion Ratio Lower Upper

88 100

43 0.0 55.6 83.4#

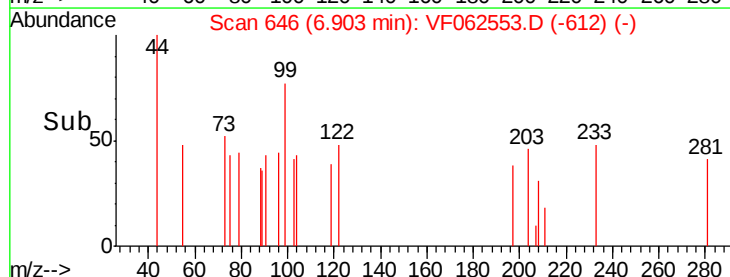
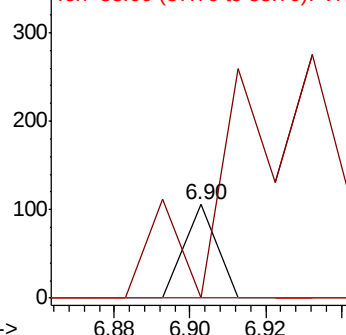
58 0.0 52.8 79.2#

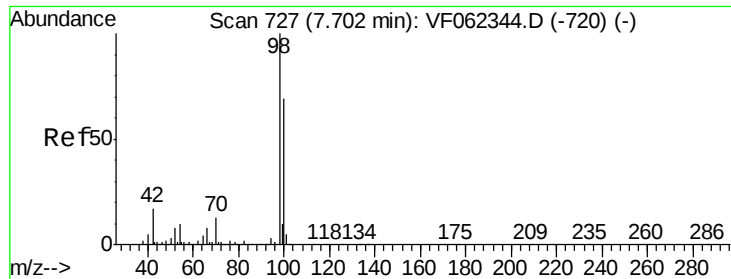


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

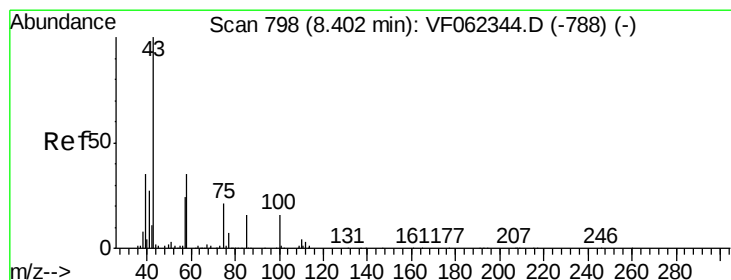
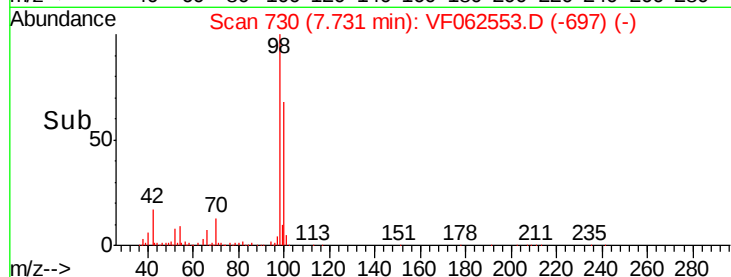
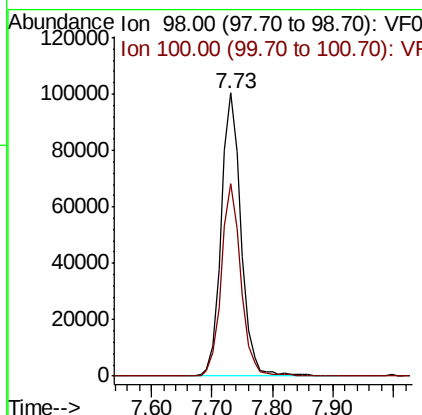
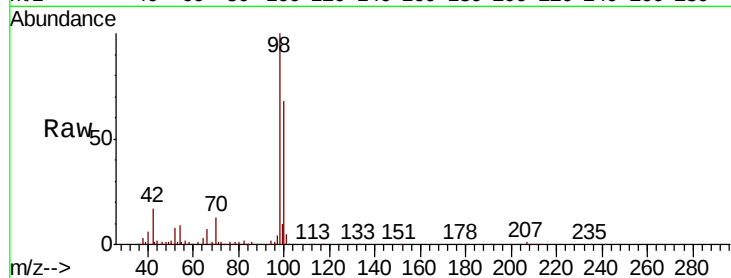




#50
Toluene-d8
Concen: 34.243 ug/l
RT: 7.73 min Scan# 730
Delta R.T. 0.03 min
Lab File: VF062553.D
Acq: 13 May 2019 20:35

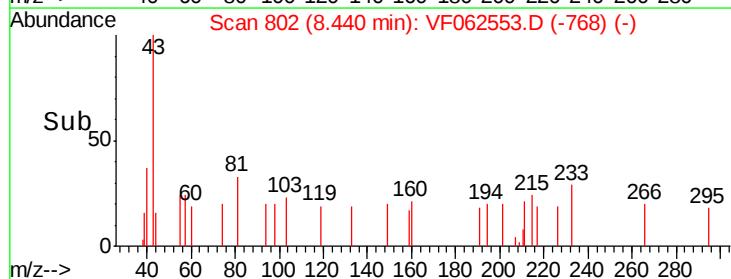
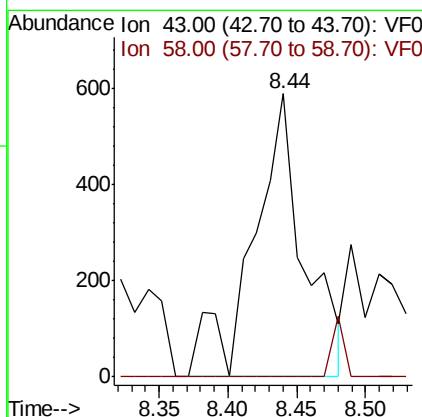
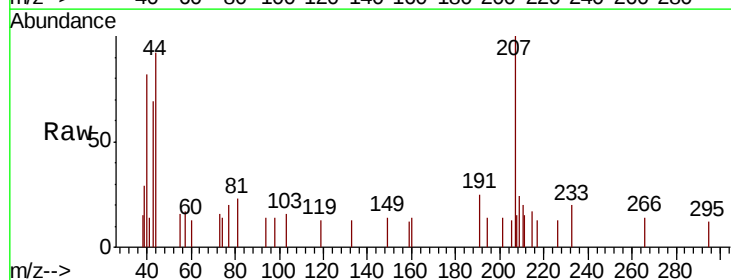
Instrument :
MSVOA_F
ClientSampleId :
P021-SS001-1218-01RE

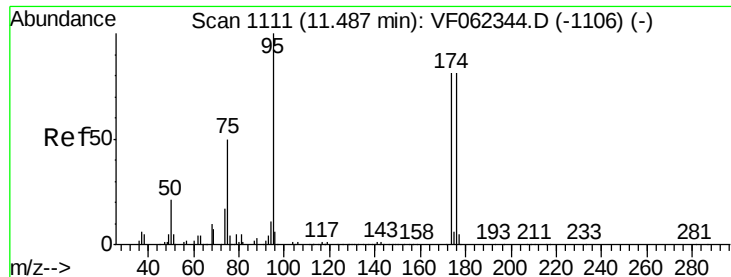
Tot Ion: 98 Resp: 228802
Ion Ratio Lower Upper
98 100
100 66.7 53.3 79.9



#51
4-Methyl-2-Pentanone
Concen: 1.482 ug/l
RT: 8.44 min Scan# 802
Delta R.T. 0.04 min
Lab File: VF062553.D
Acq: 13 May 2019 20:35

Tgt Ion: 43 Resp: 1520
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.6#





#62

4-Bromofluorobenzene

Concen: 29.749 ug/l

RT: 11.51 min Scan# 1113

Delta R.T. 0.02 min

Lab File: VF062553.D

Acq: 13 May 2019 20:35

Instrument :

MSVOA_F

ClientSampleId :

P021-SS001-1218-01RE

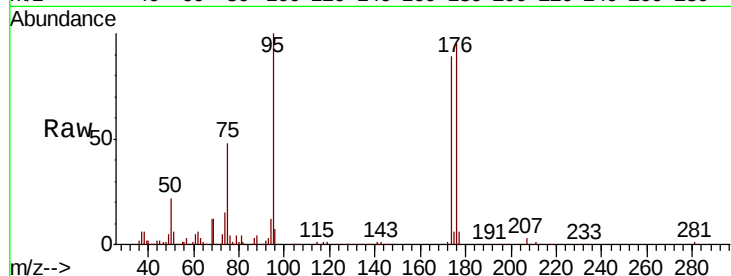
Tot Ion: 95 Resp: 89681

Ion Ratio Lower Upper

95 100

174 100.6 0.0 191.8

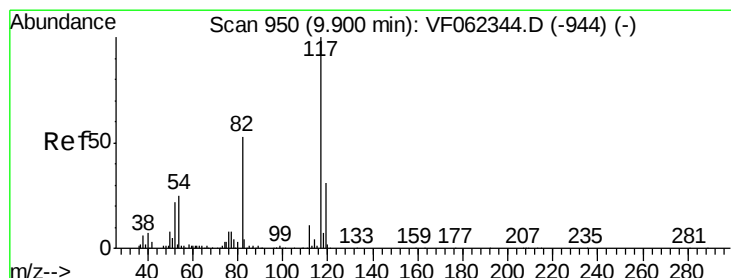
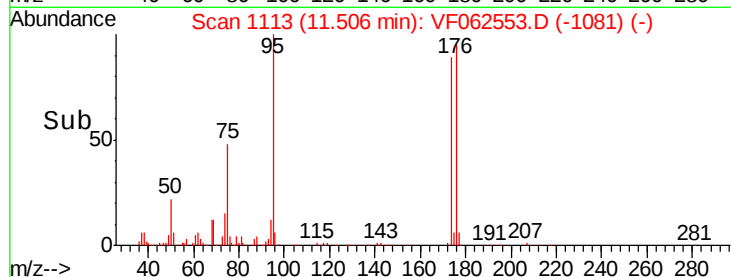
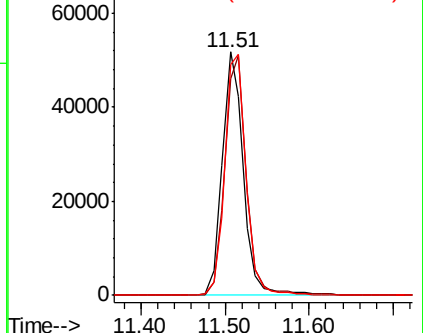
176 100.3 0.0 193.2



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: VF062553.D

Acq: 13 May 2019 20:35

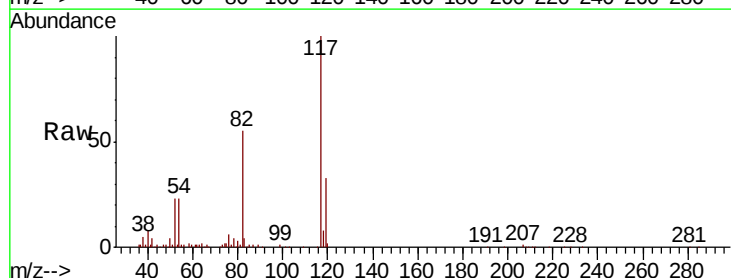
Tgt Ion: 117 Resp: 253616

Ion Ratio Lower Upper

117 100

82 55.3 42.2 63.2

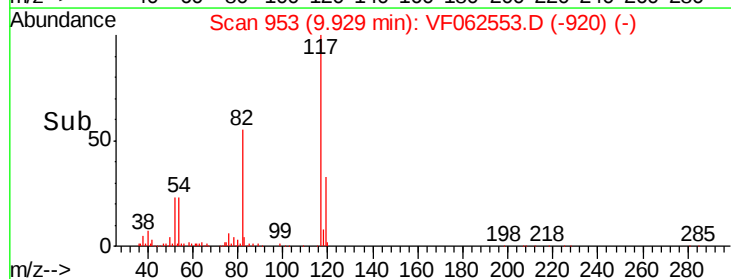
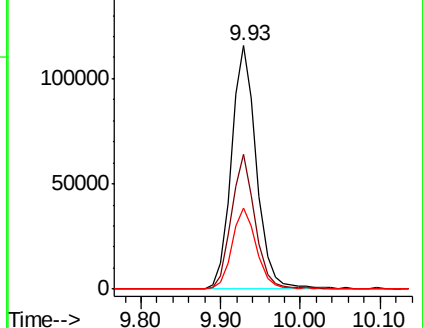
119 33.1 25.0 37.4

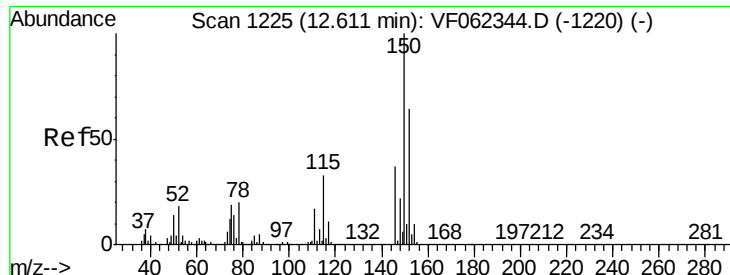


Abundance Ion 116.90 (116.60 to 117.60): V

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: VF062553.D

Acq: 13 May 2019 20:35

Instrument :

MSVOA_F

ClientSampleId :

P021-SS001-1218-01RE

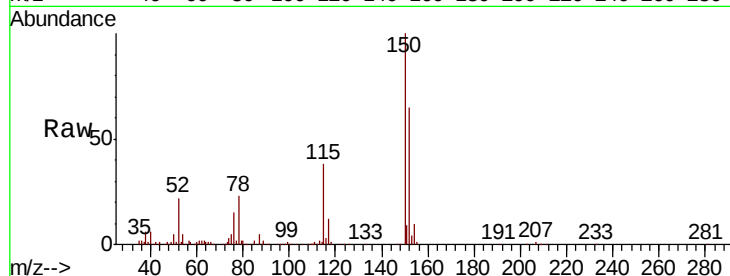
Tot Ion:152 Resp: 117704

Ion Ratio Lower Upper

152 100

115 53.9 26.4 79.2

150 153.4 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

