

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051219\
 Data File : VF062529.D
 Acq On : 13 May 2019 4:48
 Operator : FY/SY
 Sample : K2756-10RE
 Misc : 6.40g/5mL/MSVOA F/SOIL
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P021-SS006-1824-01

Quant Time: May 13 07:32:33 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	286031	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.79	114	372744	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.92	117	303345	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	164425	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	115145	42.60	ug/l	0.03
Spiked Amount			Recovery	=	85.20%	
35) Dibromofluoromethane	4.33	113	141173	47.54	ug/l	0.03
Spiked Amount			Recovery	=	95.08%	
50) Toluene-d8	7.73	98	290322	40.39	ug/l	0.02
Spiked Amount			Recovery	=	80.78%	
62) 4-Bromofluorobenzene	11.51	95	121907	37.59	ug/l	0.02
Spiked Amount			Recovery	=	75.18%	

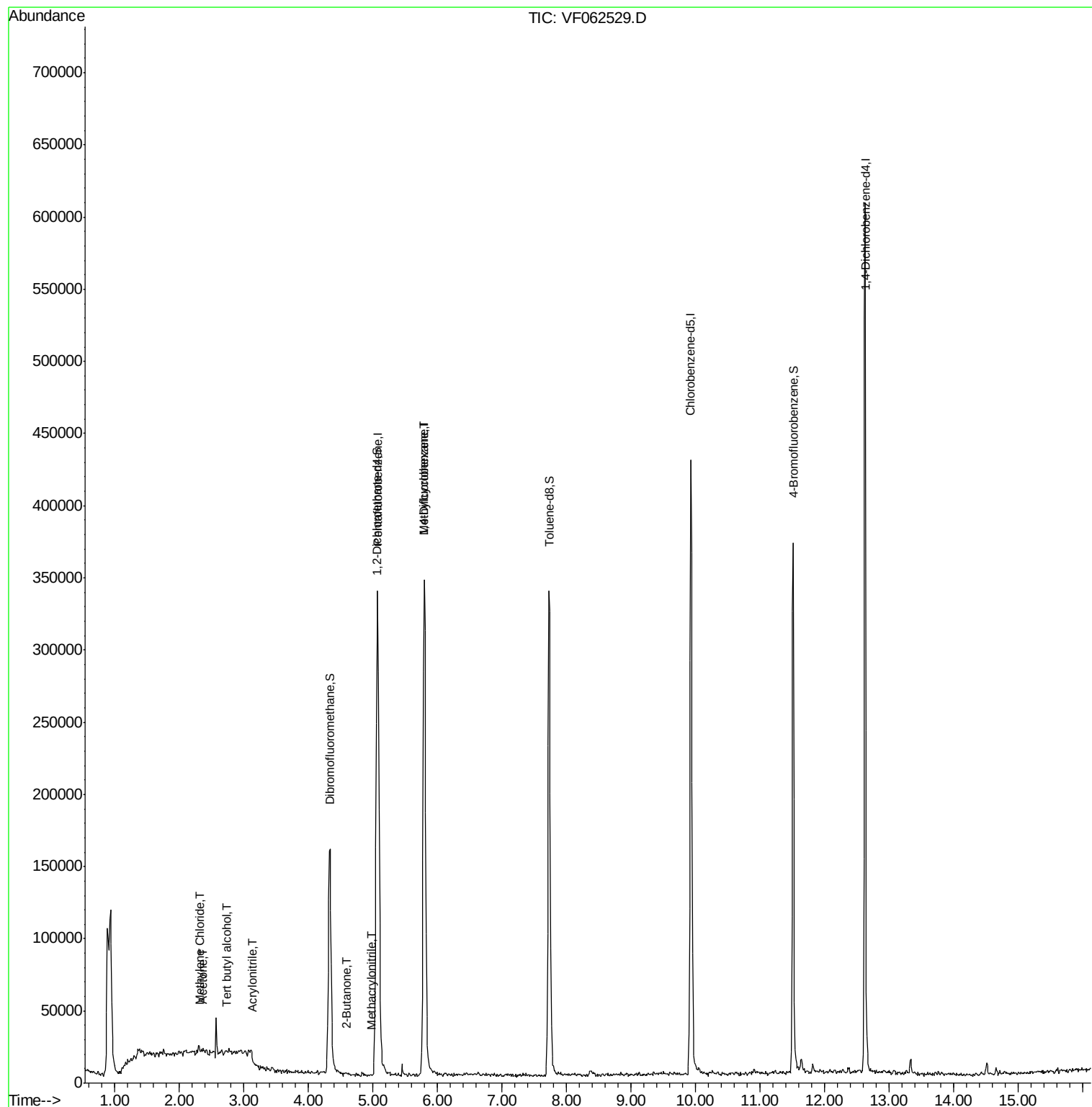
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.41	94	1337	Below Cal	#	3
11) Tert butyl alcohol	2.73	59	877	5.741	ug/l #	1
13) Acrolein	2.12	56	517	Below Cal	#	80
15) Acrylonitrile	3.14	53	1182	4.084	ug/l #	25
16) Acetone	2.35	43	2376	4.345	ug/l #	92
18) Methyl Acetate	2.45	43	922	Below Cal		97
20) Methylene Chloride	2.32	84	2534	1.281	ug/l #	49
25) 2-Butanone	4.60	43	828	1.205	ug/l #	60
37) Ethyl Acetate	4.34	43	280	Below Cal	#	73
38) Carbon Tetrachloride	4.18	117	148	Below Cal	#	14
39) Methylcyclohexane	5.79	83	6058	1.886	ug/l #	14
41) Methacrylonitrile	4.97	41	840	1.094	ug/l #	39
49) 1,4-Dioxane	6.93	88	82	Below Cal	#	4

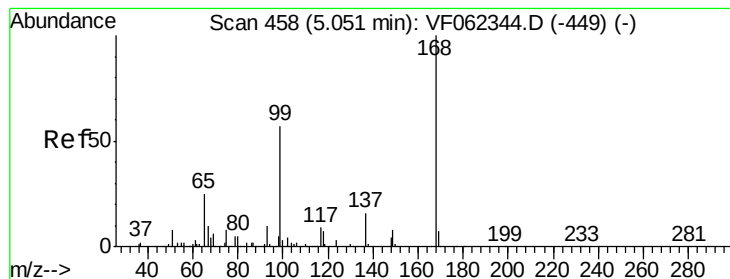
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.07 min Scan# 461

Delta R.T. 0.02 min

Lab File: VF062529.D

Acq: 13 May 2019 4:48

Instrument :

MSVOA_F

ClientSampleId :

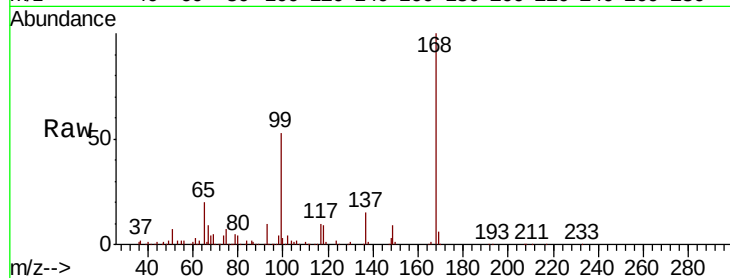
P021-SS006-1824-01

Tot Ion:168 Resp: 286031

Ion Ratio Lower Upper

168 100

99 53.1 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

100000

80000

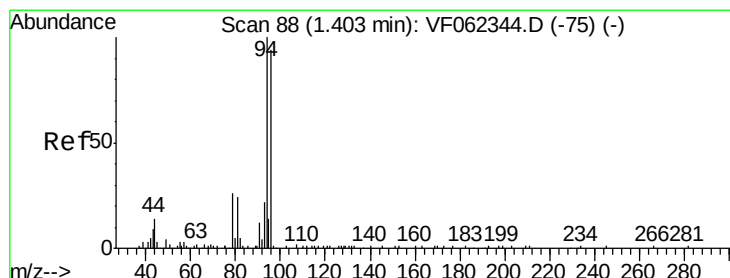
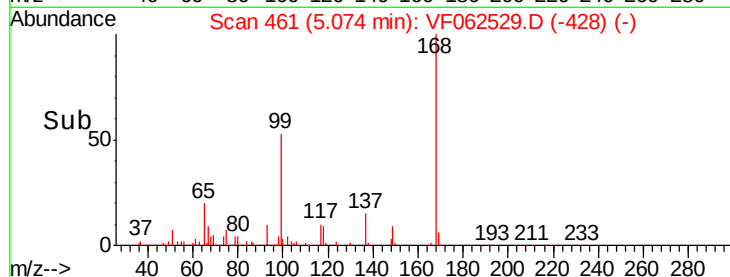
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.41 min Scan# 89

Delta R.T. 0.00 min

Lab File: VF062529.D

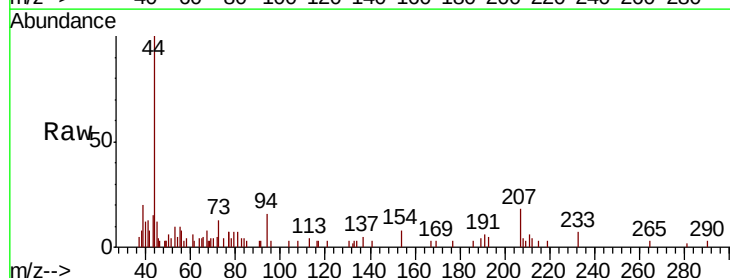
Acq: 13 May 2019 4:48

Tgt Ion: 94 Resp: 1337

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

1.41

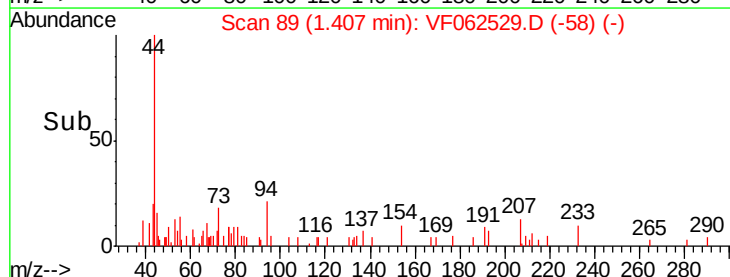
600

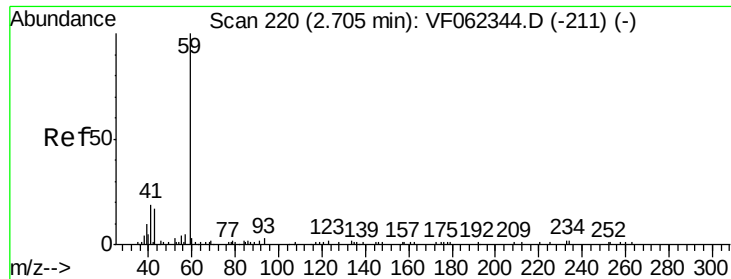
400

200

0

Time-->



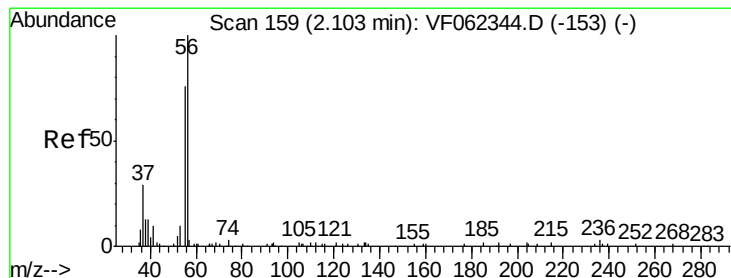
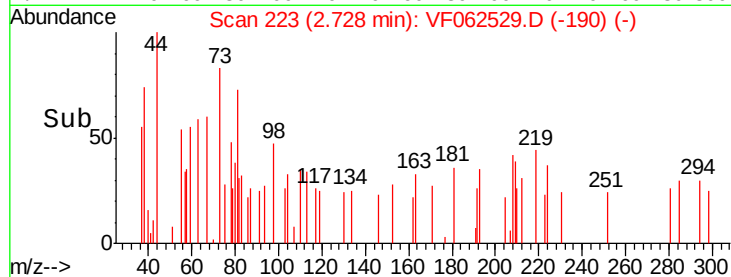
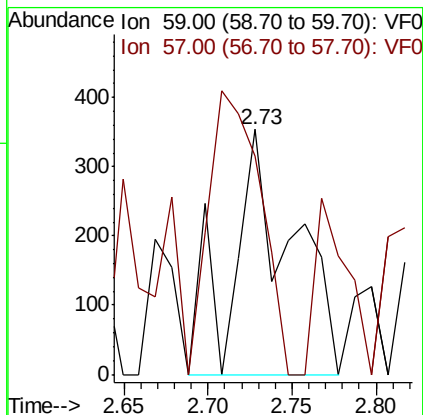
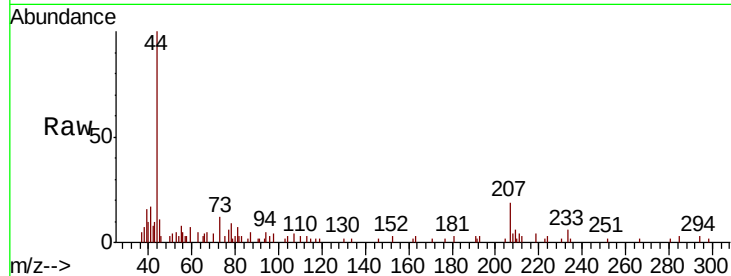


#11

Tert butyl alcohol
Concen: 5.741 ug/l
RT: 2.73 min Scan# 223
Delta R.T. 0.02 min
Lab File: VF062529.D
Acq: 13 May 2019 4:48

Instrument :
MSVOA_F
ClientSampleId :
P021-SS006-1824-01

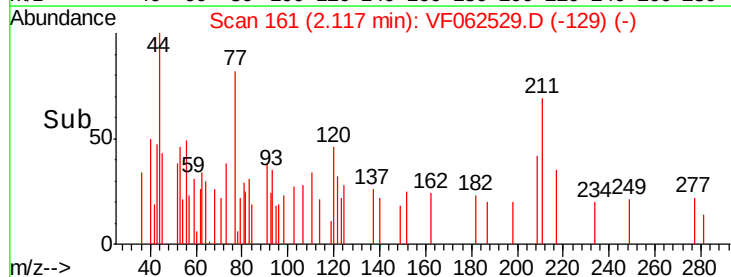
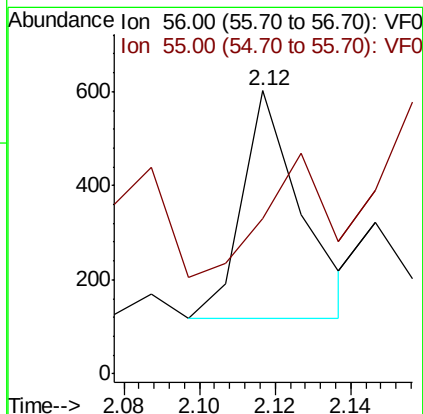
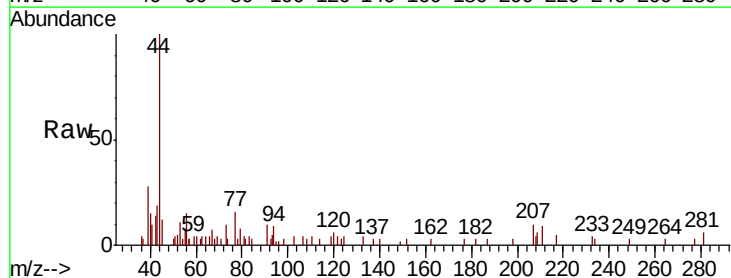
Tot Ion: 59 Resp: 877
Ion Ratio Lower Upper
59 100
57 100.0 9.3 13.9#

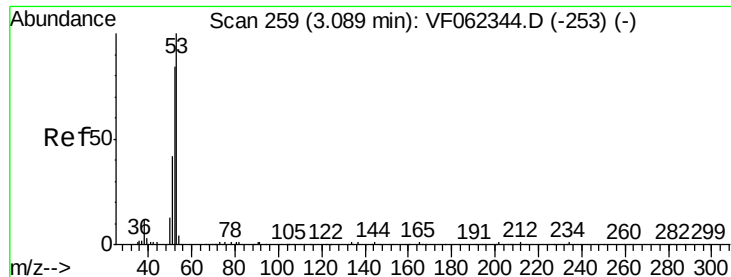


#13

Acrolein
Concen: Below Cal
RT: 2.12 min Scan# 161
Delta R.T. 0.01 min
Lab File: VF062529.D
Acq: 13 May 2019 4:48

Tgt Ion: 56 Resp: 517
Ion Ratio Lower Upper
56 100
55 56.5 58.4 87.6#





#15

Acrylonitrile

Concen: 4.084 ug/l

RT: 3.14 min Scan# 265

Delta R.T. 0.05 min

Lab File: VF062529.D

Acq: 13 May 2019 4:48

Instrument :

MSVOA_F

ClientSampleId :

P021-SS006-1824-01

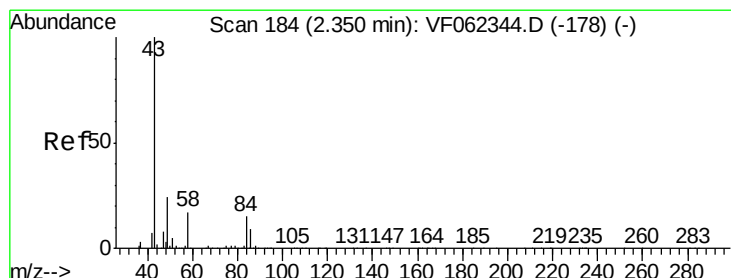
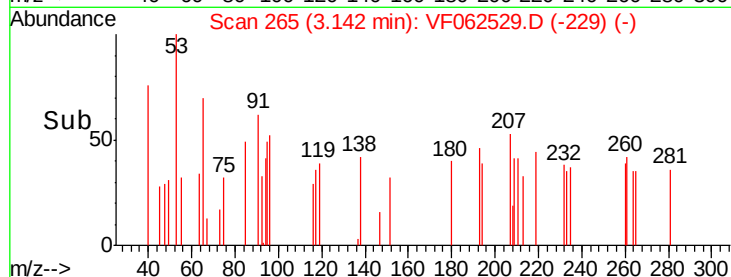
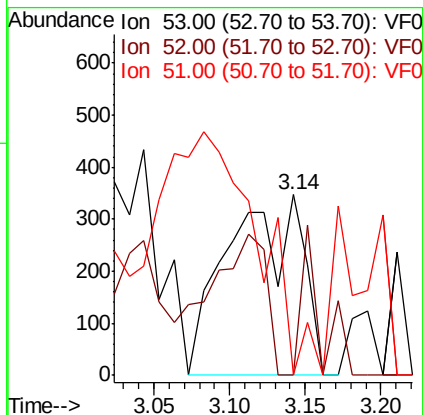
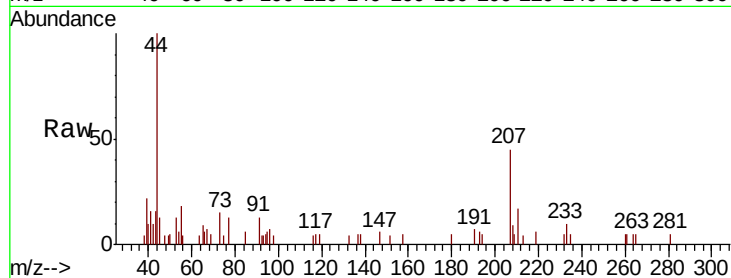
Tot Ion: 53 Resp: 1182

Ion Ratio Lower Upper

53 100

52 21.6 77.2 115.8#

51 0.0 40.6 61.0#



#16

Acetone

Concen: 4.345 ug/l

RT: 2.35 min Scan# 185

Delta R.T. 0.00 min

Lab File: VF062529.D

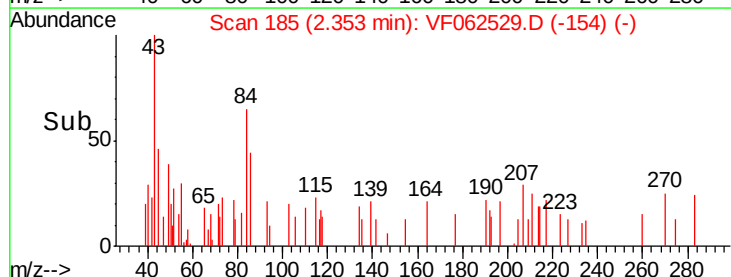
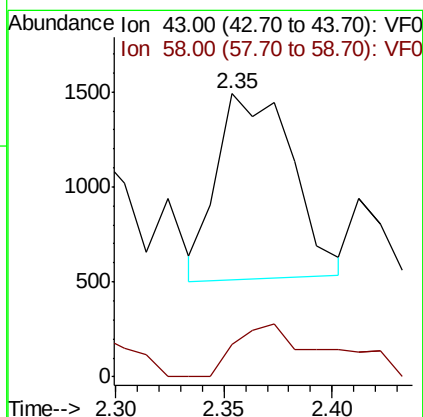
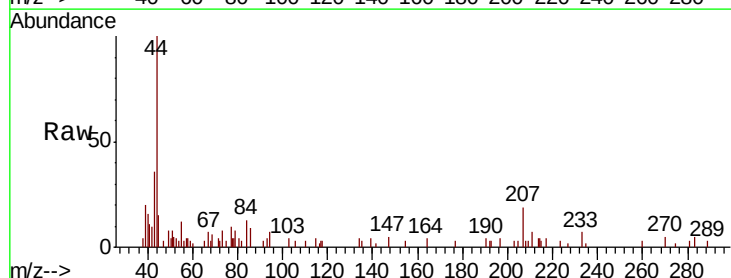
Acq: 13 May 2019 4:48

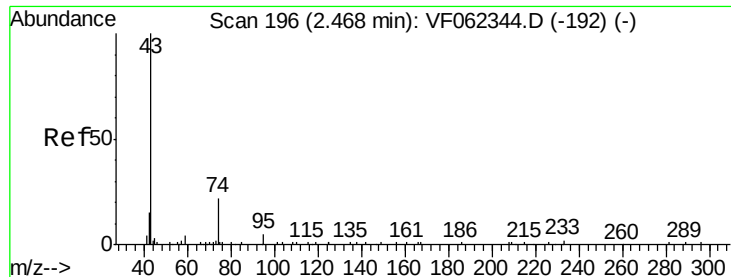
Tgt Ion: 43 Resp: 2376

Ion Ratio Lower Upper

43 100

58 20.0 13.1 19.7#

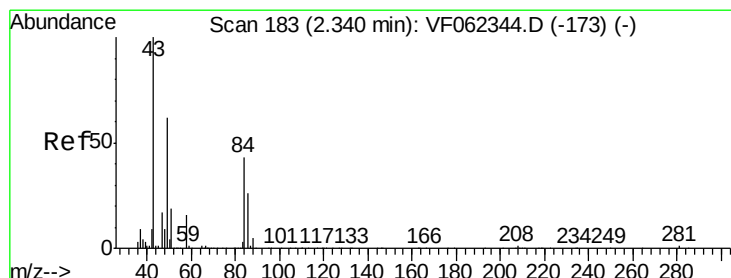
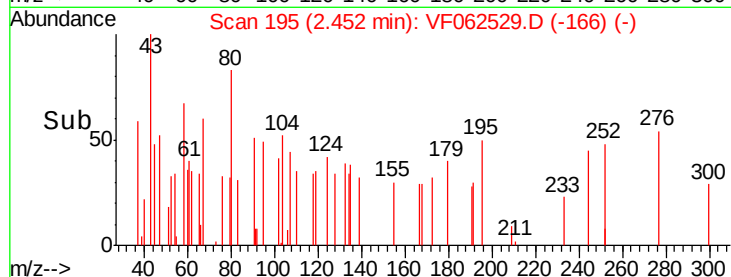
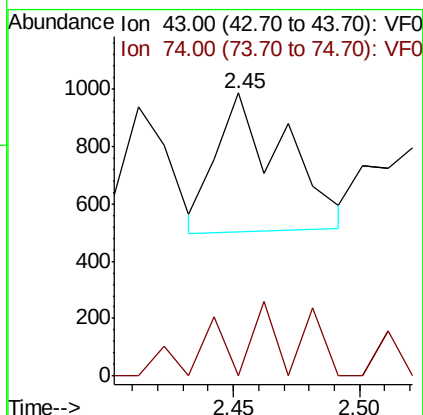
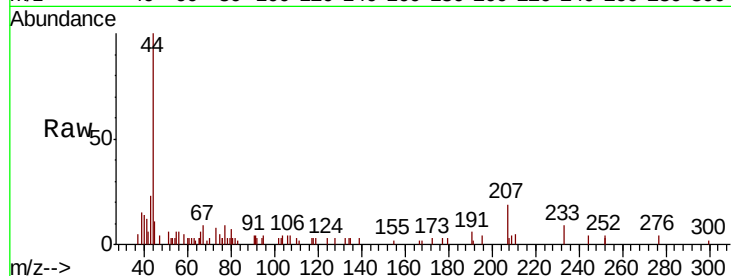




#18
Methyl Acetate
Concen: Below Cal
RT: 2.45 min Scan# 195
Delta R.T. -0.02 min
Lab File: VF062529.D
Acq: 13 May 2019 4:48

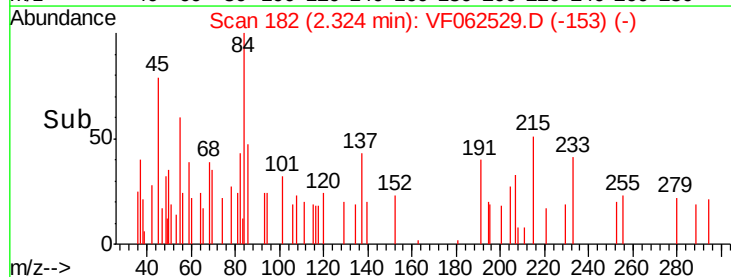
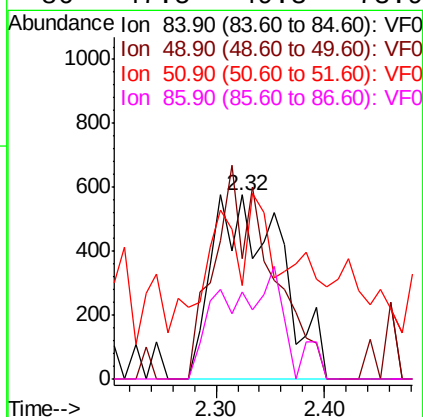
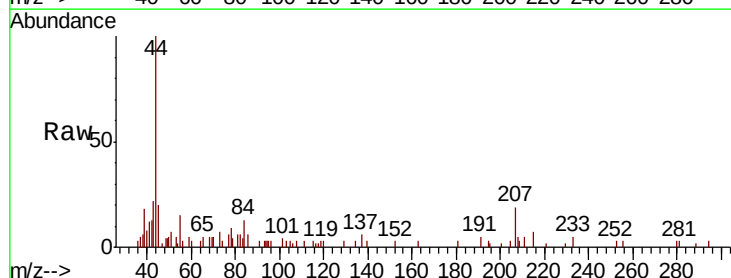
Instrument :
MSVOA_F
ClientSampleId :
P021-SS006-1824-01

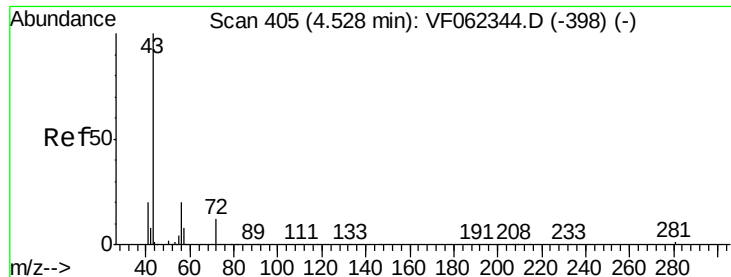
Tot Ion: 43 Resp: 922
Ion Ratio Lower Upper
43 100
74 20.2 15.0 22.4



#20
Methylene Chloride
Concen: 1.281 ug/l
RT: 2.32 min Scan# 182
Delta R.T. -0.02 min
Lab File: VF062529.D
Acq: 13 May 2019 4:48

Tgt Ion: 84 Resp: 2534
Ion Ratio Lower Upper
84 100
49 65.3 117.5 176.3#
51 11.8 37.0 55.4#
86 47.5 49.3 73.9#





#25

2-Butanone

Concen: 1.205 ug/l

RT: 4.60 min Scan# 413

Delta R.T. 0.07 min

Lab File: VF062529.D

Acq: 13 May 2019 4:48

Instrument :

MSVOA_F

ClientSampleId :

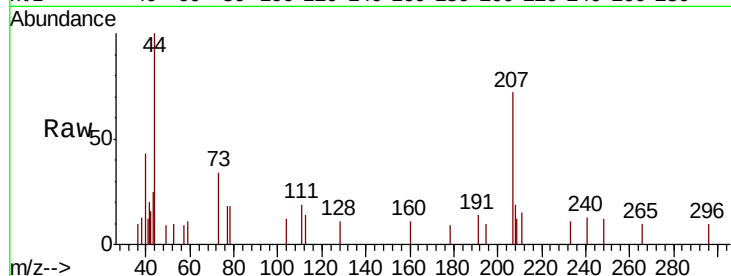
P021-SS006-1824-01

Tot Ion: 43 Resp: 828

Ion Ratio Lower Upper

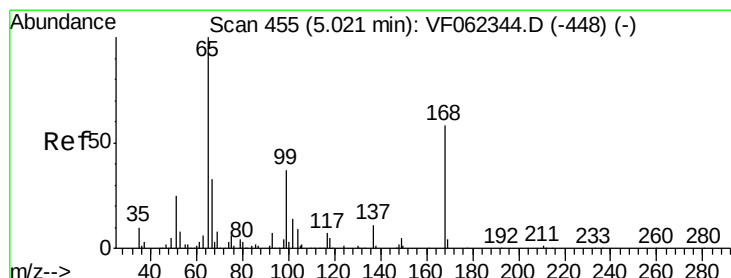
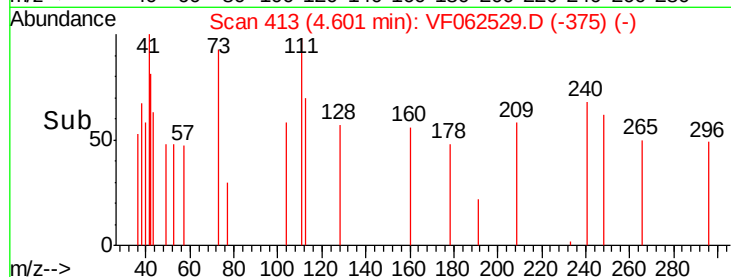
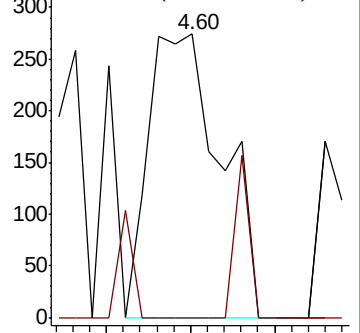
43 100

72 0.0 14.2 21.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 42.597 ug/l

RT: 5.05 min Scan# 459

Delta R.T. 0.03 min

Lab File: VF062529.D

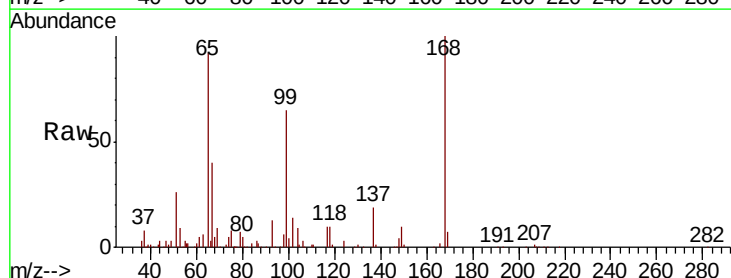
Acq: 13 May 2019 4:48

Tgt Ion: 65 Resp: 115145

Ion Ratio Lower Upper

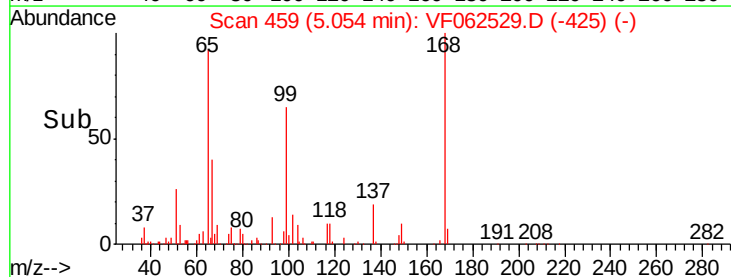
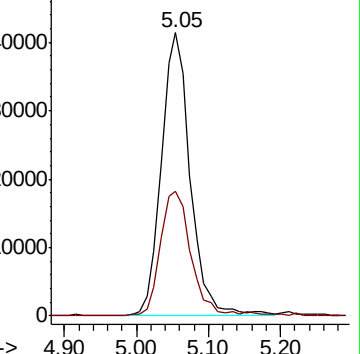
65 100

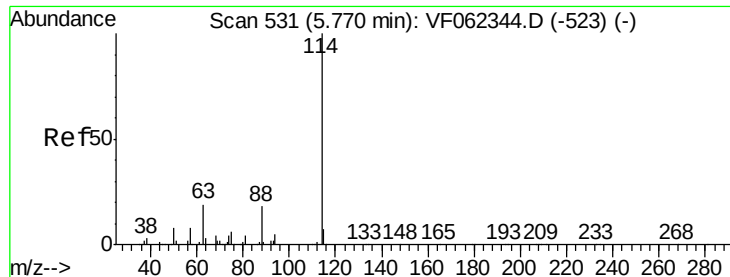
67 46.2 0.0 85.8



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: 5.79 min Scan# 534

Delta R.T. 0.02 min

Lab File: VF062529.D

Acq: 13 May 2019 4:48

Instrument :

MSVOA_F

ClientSampleId :

P021-SS006-1824-01

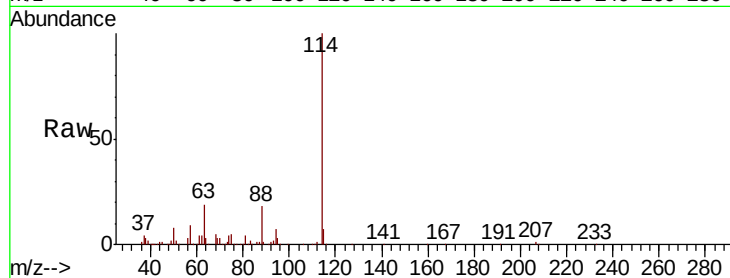
Tot Ion:114 Resp: 372744

Ion Ratio Lower Upper

114 100

63 18.9 0.0 37.4

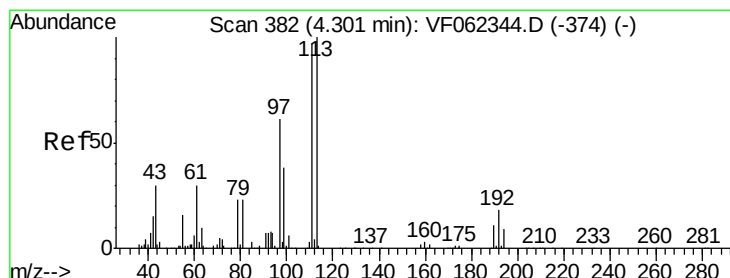
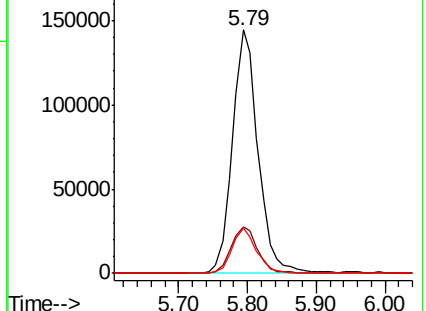
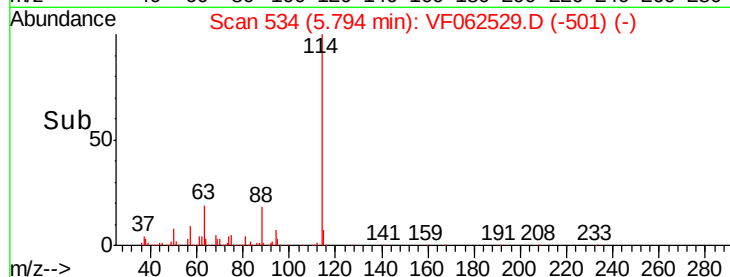
88 18.4 0.0 36.4



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: 47.540 ug/l

RT: 4.33 min Scan# 386

Delta R.T. 0.03 min

Lab File: VF062529.D

Acq: 13 May 2019 4:48

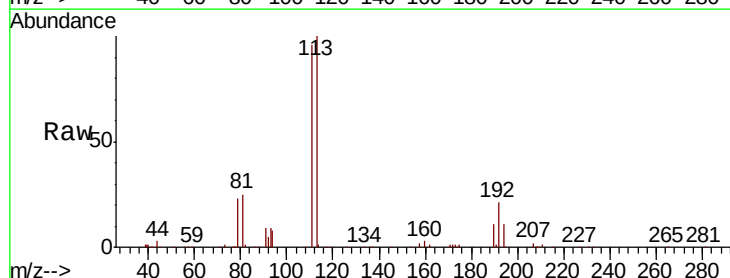
Tgt Ion:113 Resp: 141173

Ion Ratio Lower Upper

113 100

111 100.6 79.4 119.0

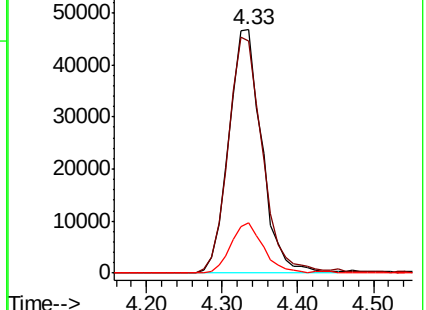
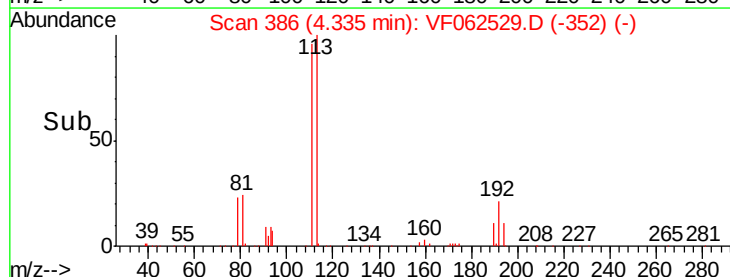
192 20.5 16.0 24.0

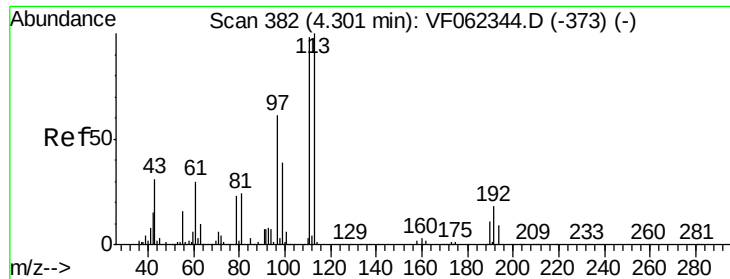


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

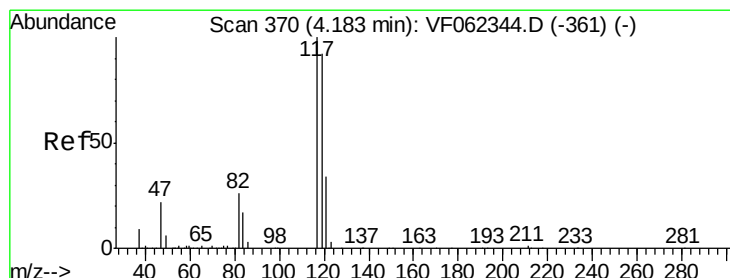
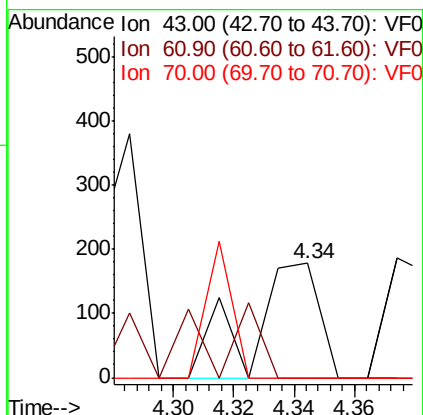
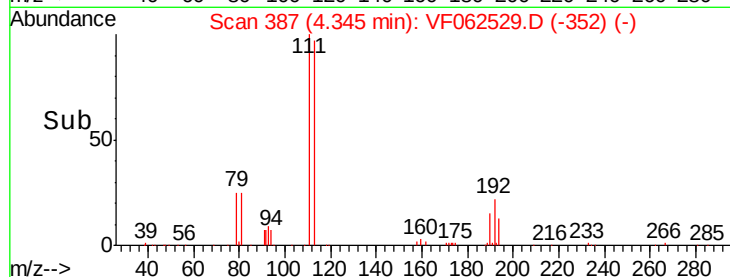
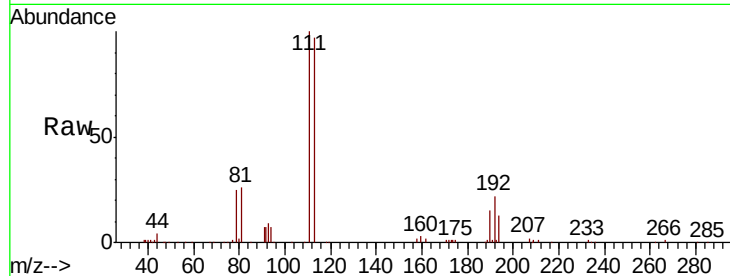




#37
Ethyl Acetate
Concen: Below Cal
RT: 4.34 min Scan# 387
Delta R.T. 0.04 min
Lab File: VF062529.D
Acq: 13 May 2019 4:48

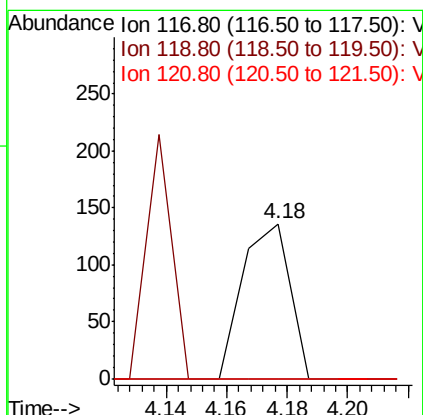
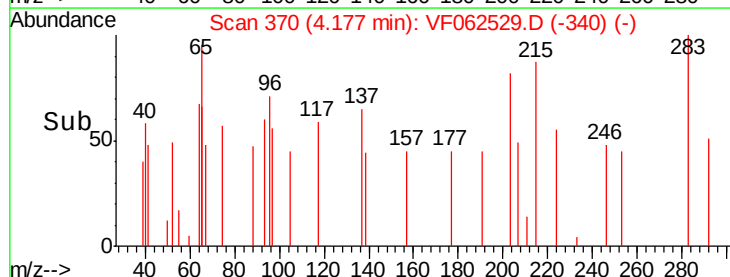
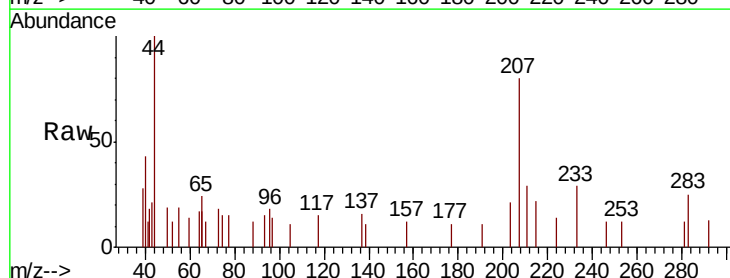
Instrument :
MSVOA_F
ClientSampleId :
P021-SS006-1824-01

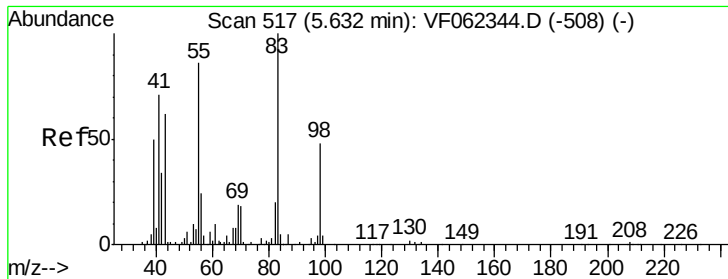
Tot Ion: 43 Resp: 280
Ion Ratio Lower Upper
43 100
61 0.0 0.0 0.0
70 0.0 8.2 12.2#



#38
Carbon Tetrachloride
Concen: Below Cal
RT: 4.18 min Scan# 370
Delta R.T. -0.01 min
Lab File: VF062529.D
Acq: 13 May 2019 4:48

Tgt Ion: 117 Resp: 148
Ion Ratio Lower Upper
117 100
119 0.0 73.4 110.2#
121 0.0 27.4 41.0#

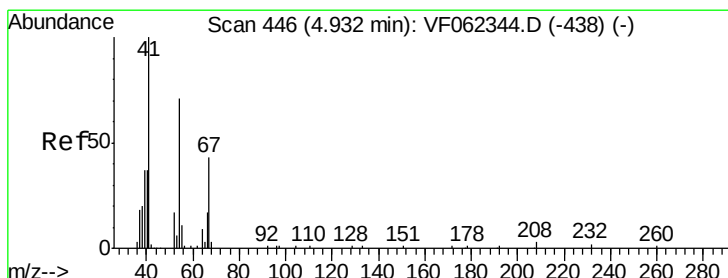
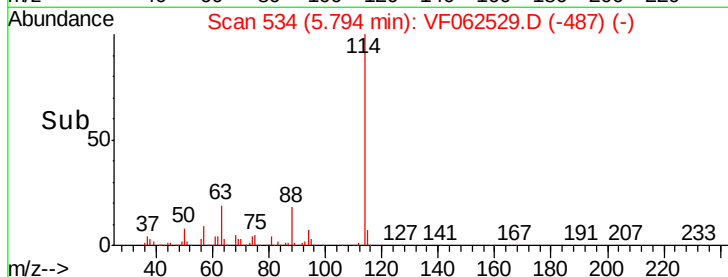
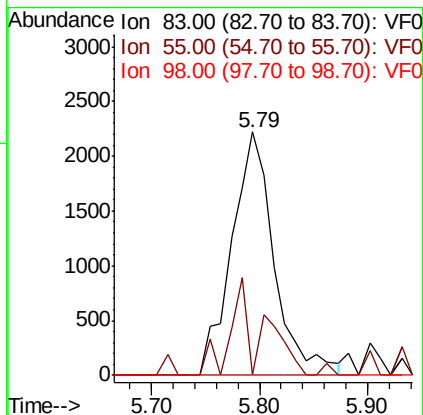
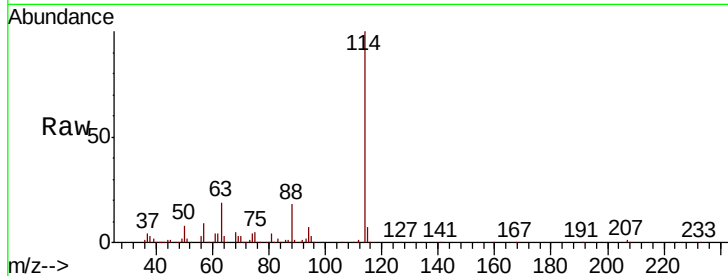




#39
Methylcyclohexane
Concen: 1.886 ug/l
RT: 5.79 min Scan# 534
Delta R.T. 0.16 min
Lab File: VF062529.D
Acq: 13 May 2019 4:48

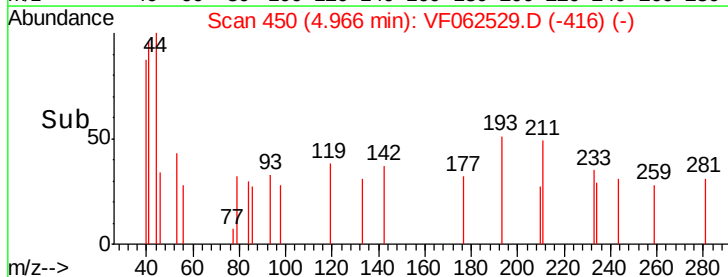
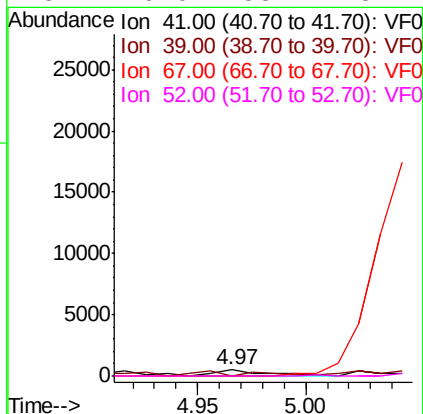
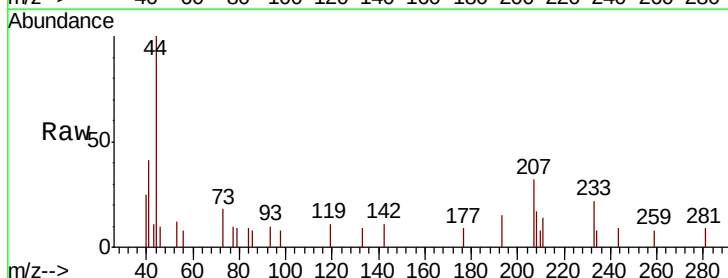
Instrument :
MSVOA_F
ClientSampleId :
P021-SS006-1824-01

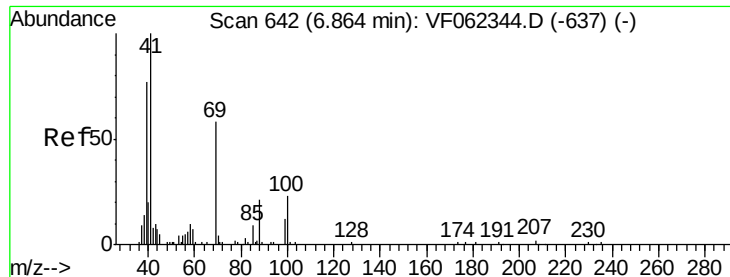
Tot Ion: 83 Resp: 6058
Ion Ratio Lower Upper
83 100
55 0.0 69.0 103.6#
98 0.0 38.6 58.0#



#41
Methacrylonitrile
Concen: 1.094 ug/l
RT: 4.97 min Scan# 450
Delta R.T. 0.03 min
Lab File: VF062529.D
Acq: 13 May 2019 4:48

Tgt Ion: 41 Resp: 840
Ion Ratio Lower Upper
41 100
39 46.1 54.3 81.5#
67 0.0 37.8 56.8#
52 0.0 58.2 87.4#





#49

1,4-Dioxane

Concen: Below Cal

RT: 6.93 min Scan# 649

Delta R.T. 0.06 min

Lab File: VF062529.D

Acq: 13 May 2019 4:48

Instrument :

MSVOA_F

ClientSampleId :

P021-SS006-1824-01

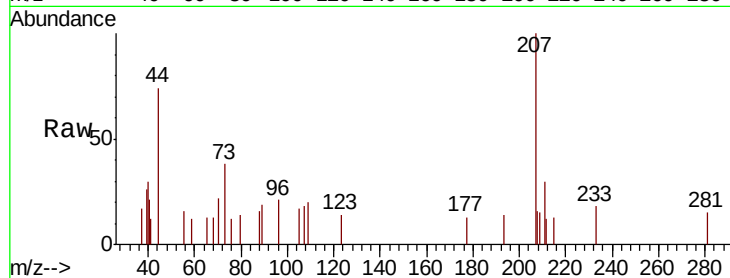
Tot Ion: 88 Resp: 82

Ion Ratio Lower Upper

88 100

43 0.0 55.6 83.4#

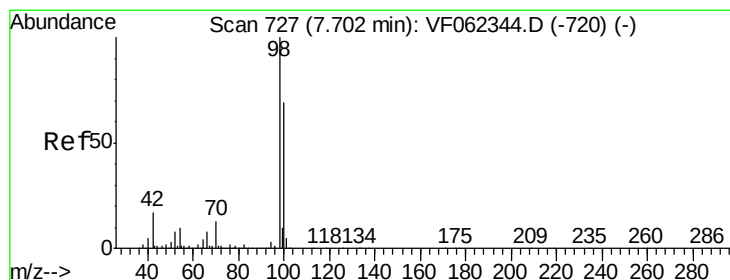
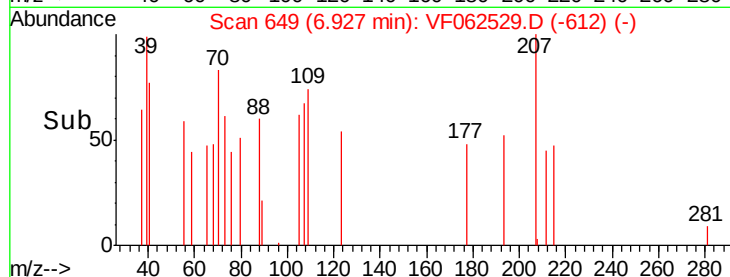
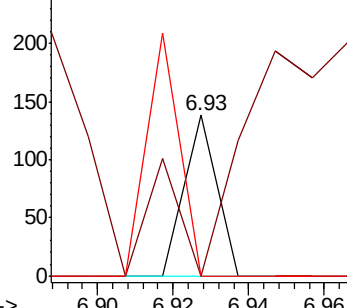
58 151.2 52.8 79.2#



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: 40.388 ug/l

RT: 7.73 min Scan# 730

Delta R.T. 0.02 min

Lab File: VF062529.D

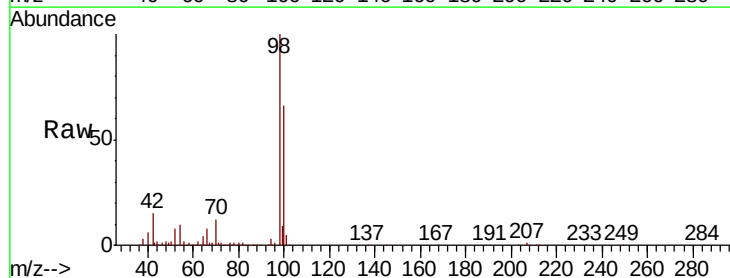
Acq: 13 May 2019 4:48

Tgt Ion: 98 Resp: 290322

Ion Ratio Lower Upper

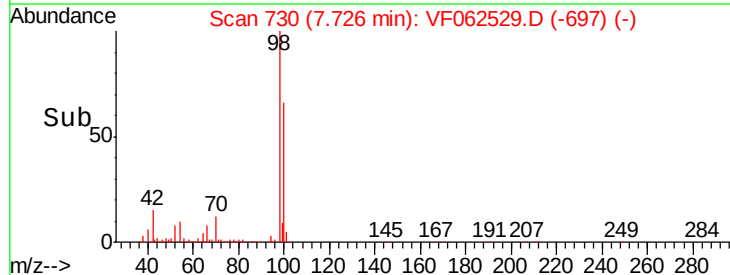
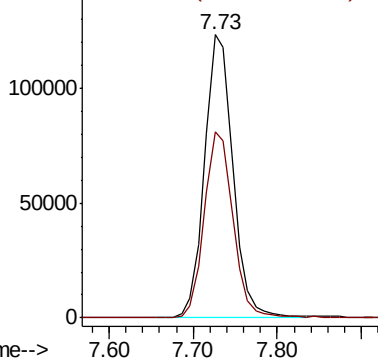
98 100

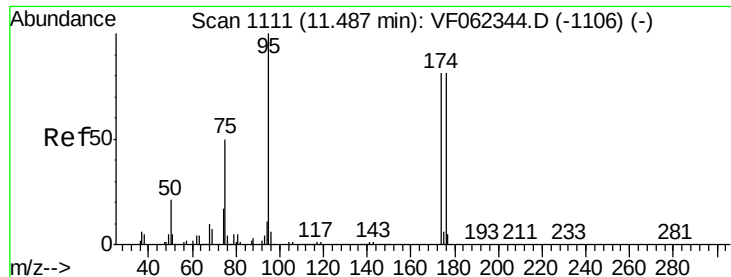
100 66.7 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#62

4-Bromofluorobenzene

Concen: 37.590 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. 0.02 min

Lab File: VF062529.D

Acq: 13 May 2019 4:48

Instrument :

MSVOA_F

ClientSampleId :

P021-SS006-1824-01

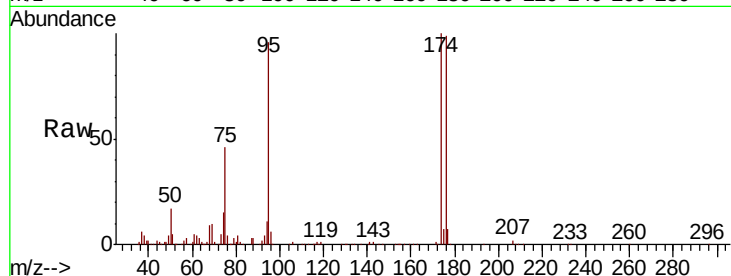
Tot Ion: 95 Resp: 121907

Ion Ratio Lower Upper

95 100

174 99.4 0.0 191.8

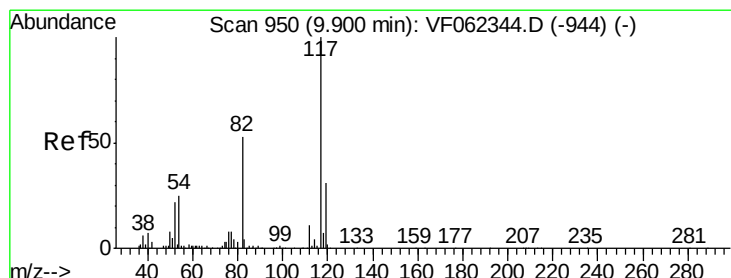
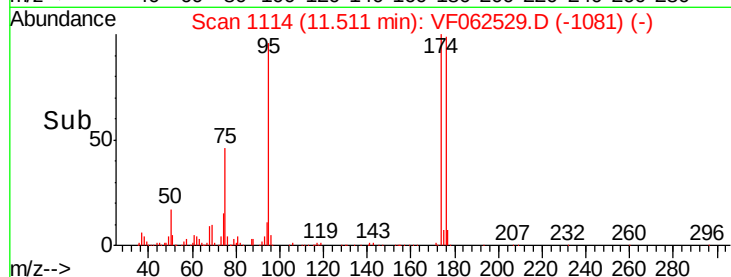
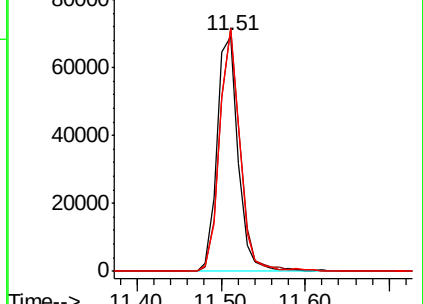
176 98.1 0.0 193.2



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: 9.92 min Scan# 953

Delta R.T. 0.02 min

Lab File: VF062529.D

Acq: 13 May 2019 4:48

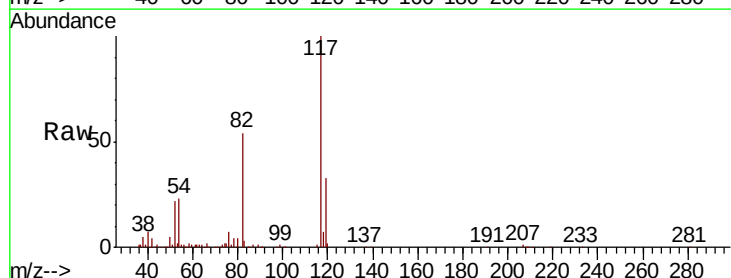
Tgt Ion: 117 Resp: 303345

Ion Ratio Lower Upper

117 100

82 54.0 42.2 63.2

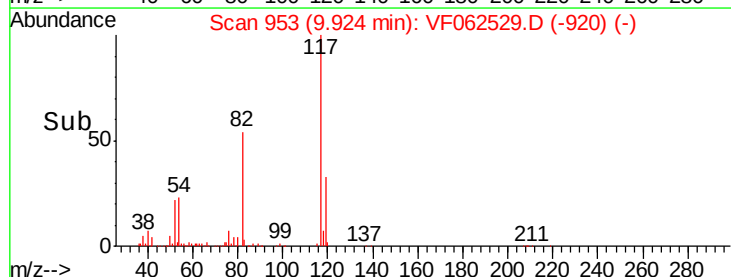
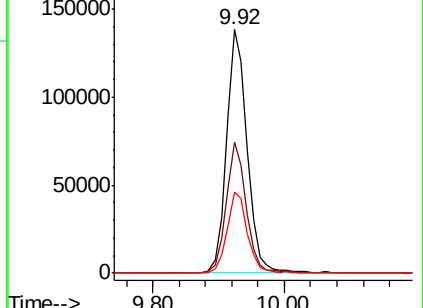
119 33.1 25.0 37.4

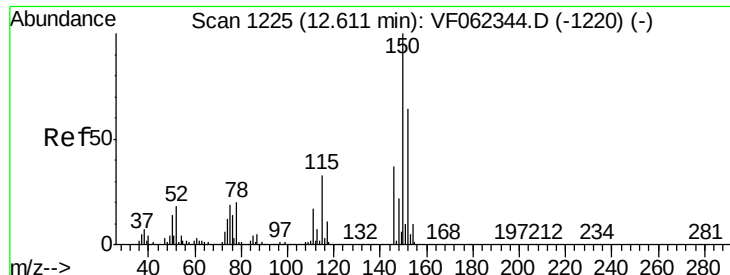


Abundance Ion 116.90 (116.60 to 117.60): V

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# 1227

Delta R.T. 0.01 min

Lab File: VF062529.D

Acq: 13 May 2019 4:48

Instrument :

MSVOA_F

ClientSampleId :

P021-SS006-1824-01

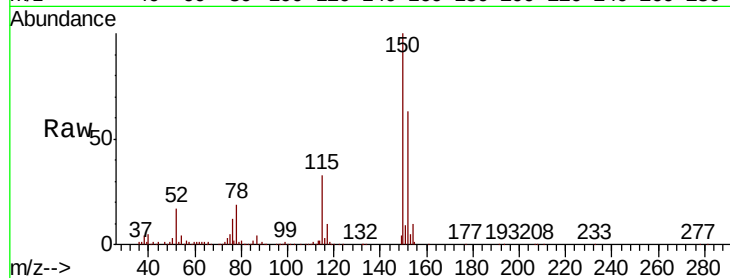
Tot Ion:152 Resp: 164425

Ion Ratio Lower Upper

152 100

115 55.7 26.4 79.2

150 157.5 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

