

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF051319\
 Data File : VF062577.D
 Acq On : 14 May 2019 9:10
 Operator : FY/SY
 Sample : K2757-05
 Misc : 5.79g/5mL/MSVOA_F/SOIL
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P021-SS009-0612-01

Quant Time: May 14 11:05:38 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	301730	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	5.80	114	416962	50.00	ug/l	0.03
63) Chlorobenzene-d5	9.93	117	322611	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.62	152	150560	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.06	65	134431	47.14	ug/l	0.04
Spiked Amount 50.000			Recovery	=	94.28%	
35) Dibromofluoromethane	4.33	113	155324	46.76	ug/l	0.03
Spiked Amount 50.000			Recovery	=	93.52%	
50) Toluene-d8	7.74	98	295824	36.79	ug/l	0.03
Spiked Amount 50.000			Recovery	=	73.58%	
62) 4-Bromofluorobenzene	11.51	95	117382	32.36	ug/l	0.02
Spiked Amount 50.000			Recovery	=	64.72%	

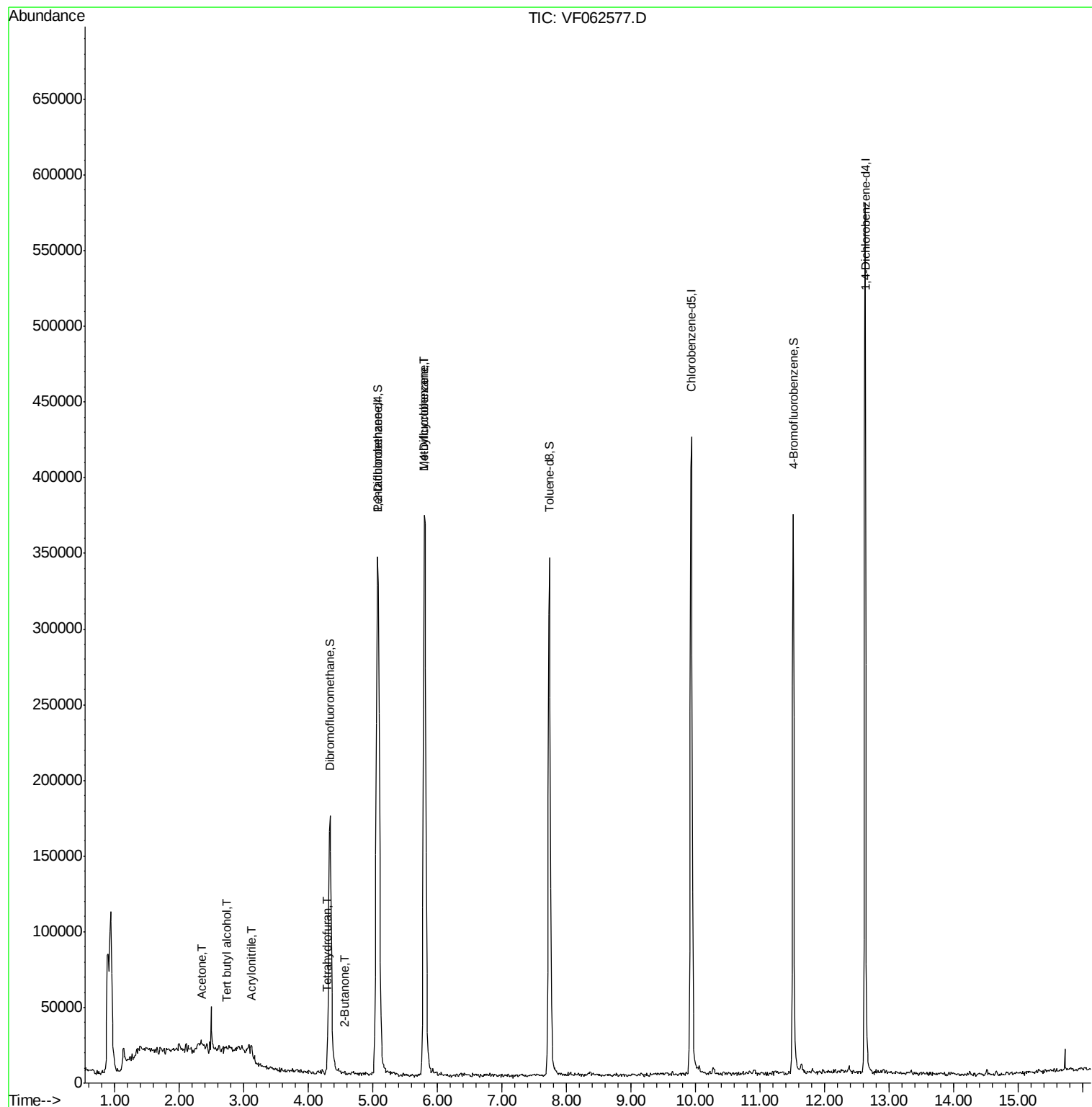
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.40	94	956	Below Cal	#	3
11) Tert butyl alcohol	2.73	59	1306	8.104	ug/l #	42
13) Acrolein	2.11	56	1085	Below Cal	#	13
15) Acrylonitrile	3.12	53	907	2.971	ug/l #	10
16) Acetone	2.36	43	6864	11.899	ug/l #	70
18) Methyl Acetate	2.46	43	1487	Below Cal	#	85
25) 2-Butanone	4.56	43	1685	2.325	ug/l #	60
29) Tetrahydrofuran	4.29	42	377	1.132	ug/l #	50
37) Ethyl Acetate	4.30	43	1230	Below Cal	#	91
38) Carbon Tetrachloride	4.22	117	86	Below Cal	#	54
39) Methylcyclohexane	5.79	83	6432	1.791	ug/l #	43
49) 1,4-Dioxane	6.89	88	79	Below Cal	#	1

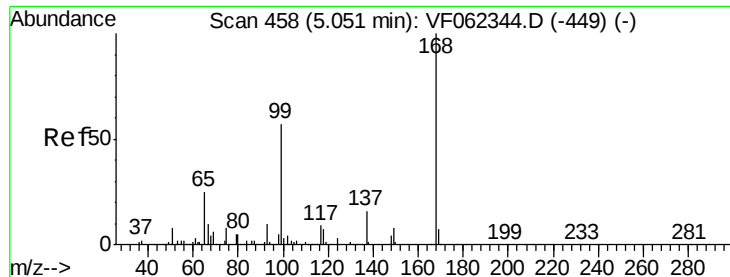
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_F\DATA\VF051319\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.08 min Scan# 462

Delta R.T. 0.03 min

Lab File: VF062577.D

Acq: 14 May 2019 9:10

Instrument :

MSVOA_F

ClientSampleId :

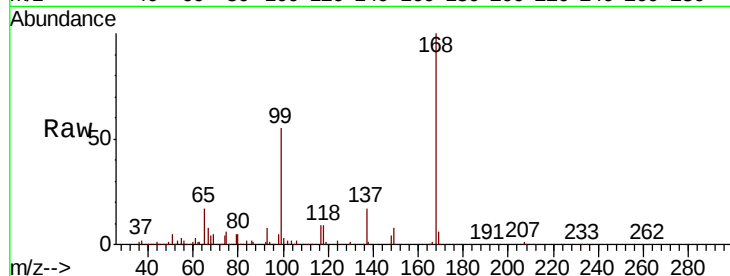
P021-SS009-0612-01

Tgt Ion:168 Resp: 301730

Ion Ratio Lower Upper

168 100

99 54.6 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

100000

80000

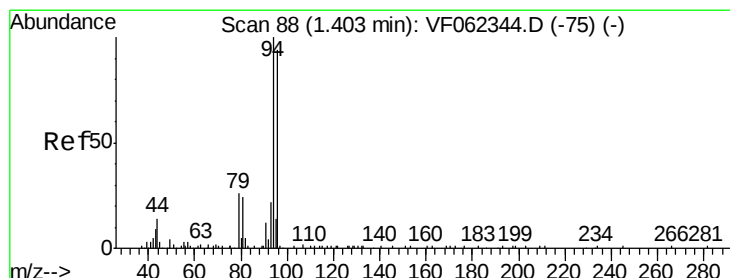
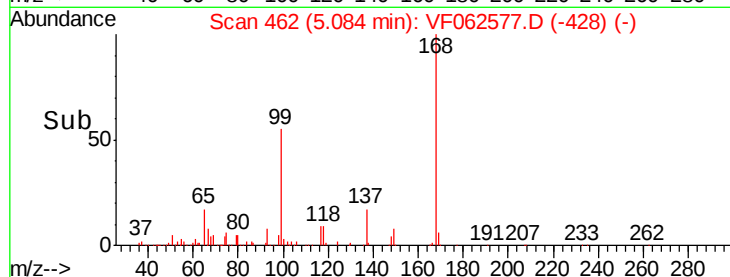
60000

40000

20000

0

Time--> 4.90 5.00 5.10 5.20 5.30



#5

Bromomethane

Concen: Below Cal

RT: 1.40 min Scan# 88

Delta R.T. -0.01 min

Lab File: VF062577.D

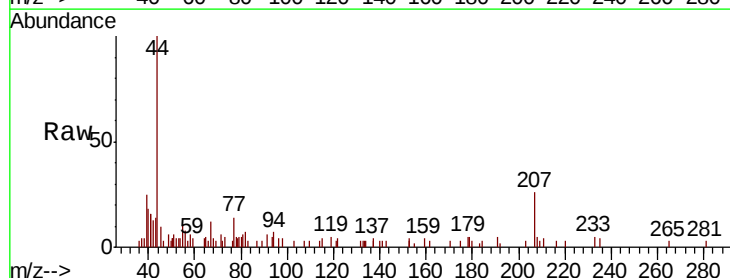
Acq: 14 May 2019 9:10

Tgt Ion: 94 Resp: 956

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

1.40

600

500

400

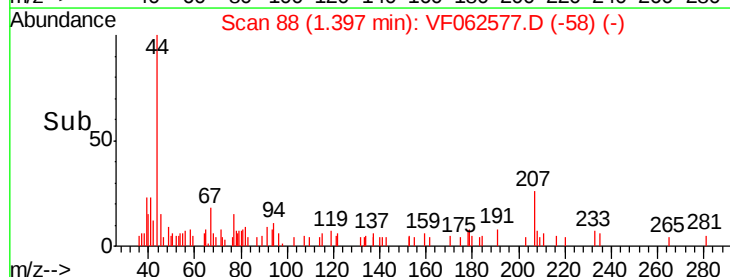
300

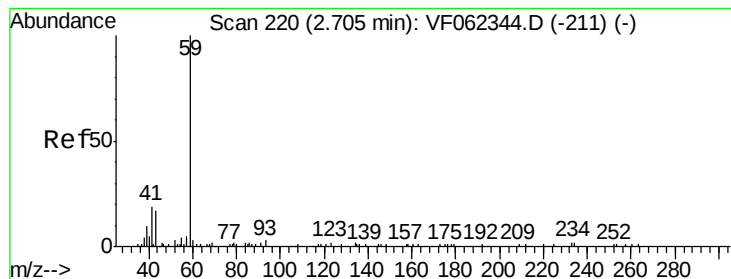
200

100

0

Time--> 1.35 1.40 1.45





#11

Tert butyl alcohol

Concen: 8.104 ug/l

RT: 2.73 min Scan# 223

Delta R.T. 0.02 min

Lab File: VF062577.D

Acq: 14 May 2019 9:10

Instrument :

MSVOA_F

ClientSampleId :

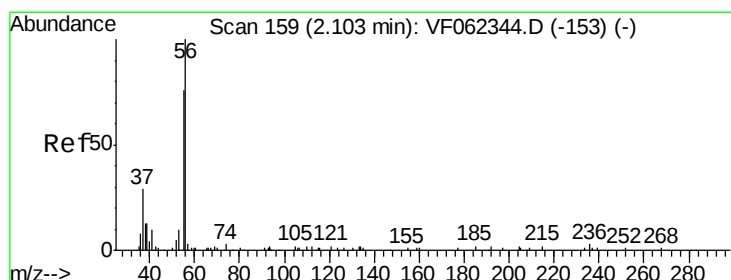
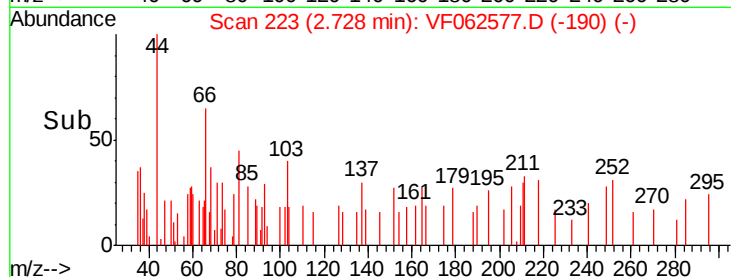
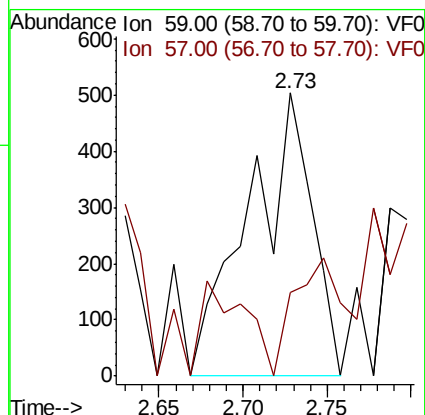
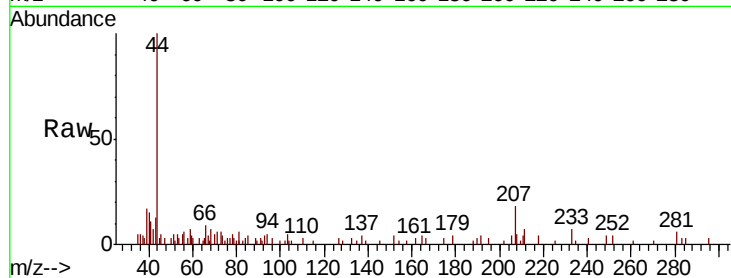
P021-SS009-0612-01

Tgt Ion: 59 Resp: 1306

Ion Ratio Lower Upper

59 100

57 34.1 9.3 13.9#



#13

Acrolein

Concen: Below Cal

RT: 2.11 min Scan# 160

Delta R.T. 0.00 min

Lab File: VF062577.D

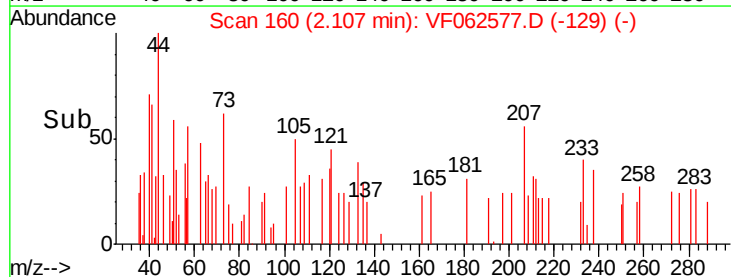
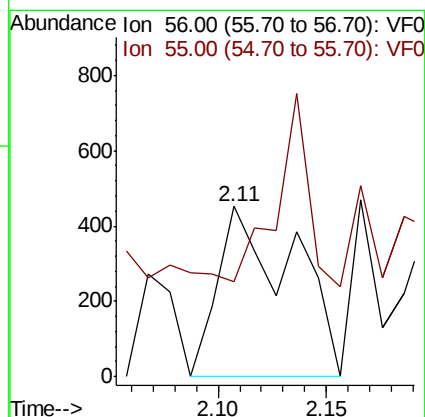
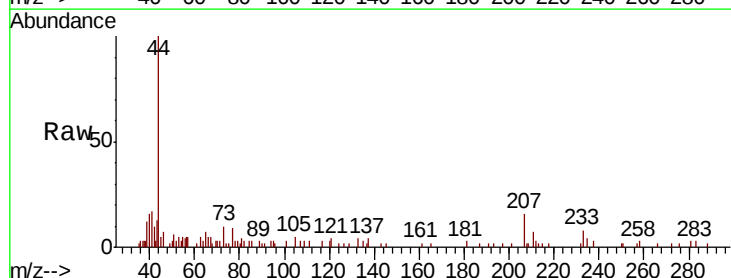
Acq: 14 May 2019 9:10

Tgt Ion: 56 Resp: 1085

Ion Ratio Lower Upper

56 100

55 0.0 58.4 87.6#





#15

Acrylonitrile

Concen: 2.971 ug/l

RT: 3.12 min Scan# 263

Delta R.T. 0.03 min

Lab File: VF062577.D

Acq: 14 May 2019 9:10

Instrument :

MSVOA_F

ClientSampleId :

P021-SS009-0612-01

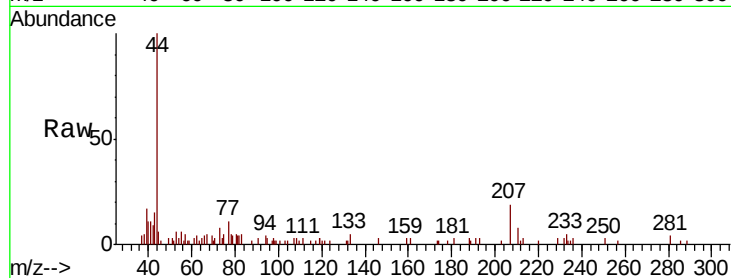
Tgt Ion: 53 Resp: 907

Ion Ratio Lower Upper

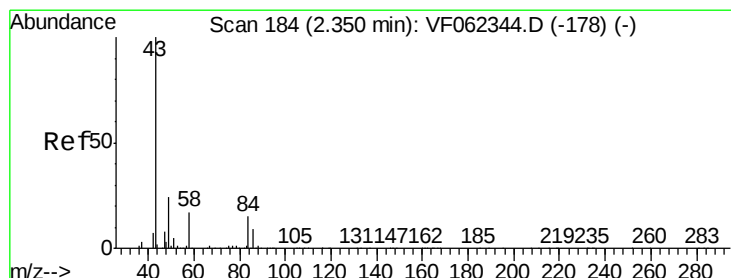
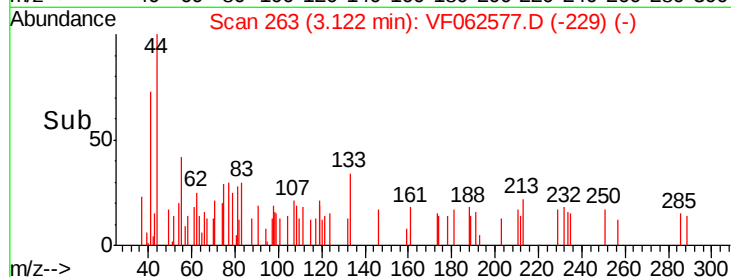
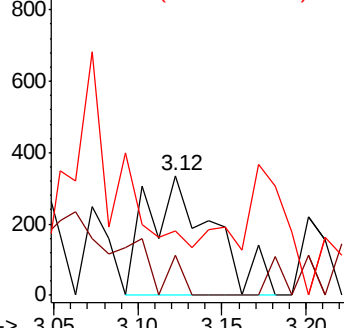
53 100

52 0.0 77.2 115.8#

51 0.0 40.6 61.0#



Abundance Ion 53.00 (52.70 to 53.70): VF0
Ion 52.00 (51.70 to 52.70): VF0
Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 11.899 ug/l

RT: 2.36 min Scan# 186

Delta R.T. 0.01 min

Lab File: VF062577.D

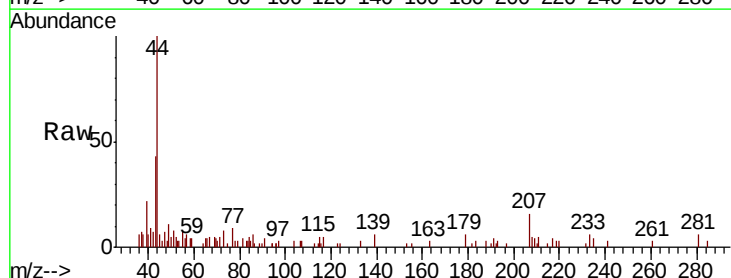
Acq: 14 May 2019 9:10

Tgt Ion: 43 Resp: 6864

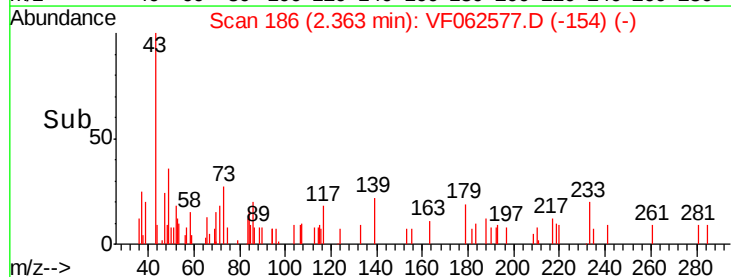
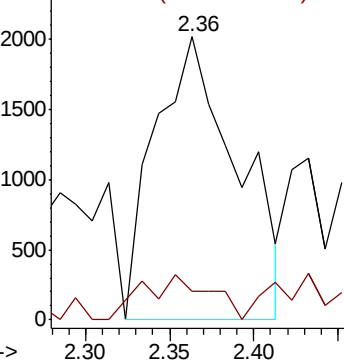
Ion Ratio Lower Upper

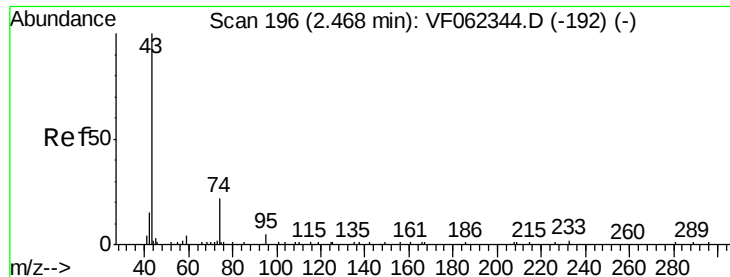
43 100

58 3.5 13.1 19.7#



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

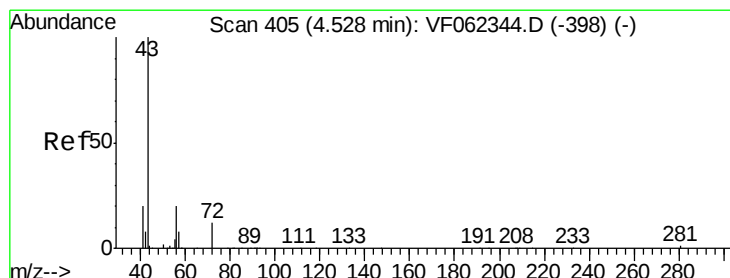
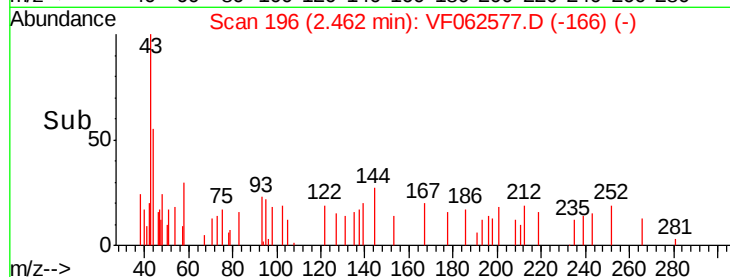
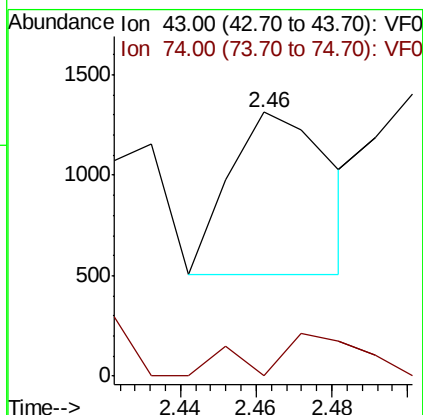
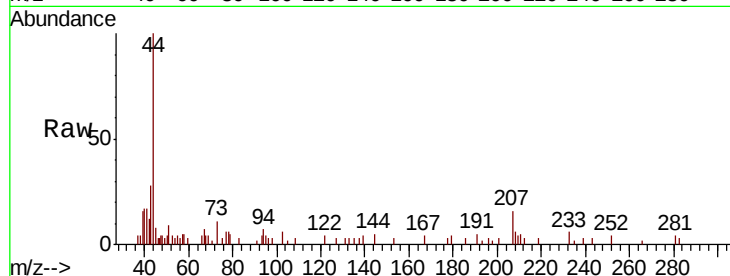




#18
Methyl Acetate
Concen: Below Cal
RT: 2.46 min Scan# 196
Delta R.T. -0.01 min
Lab File: VF062577.D
Acq: 14 May 2019 9:10

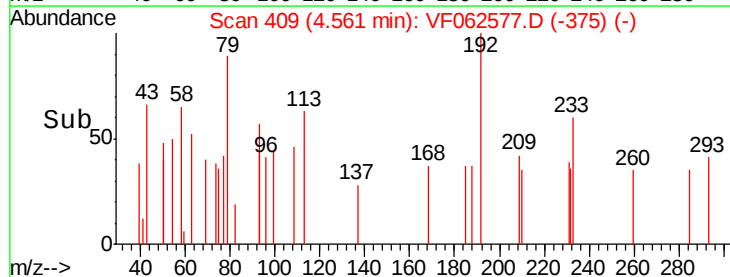
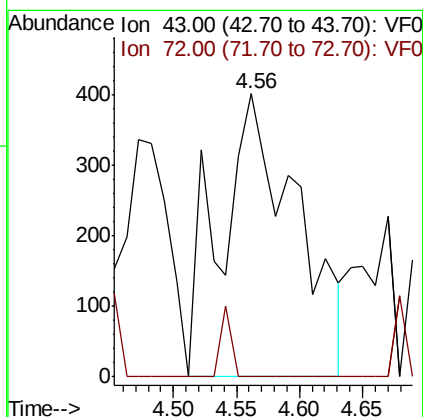
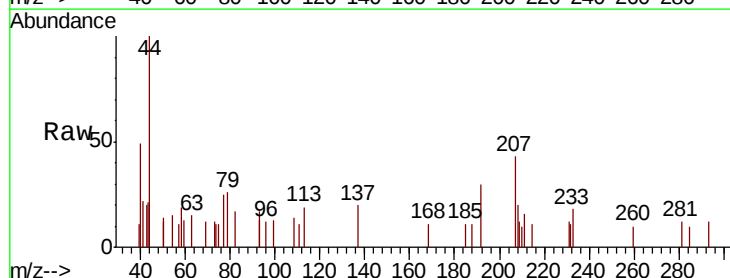
Instrument :
MSVOA_F
ClientSampleId :
P021-SS009-0612-01

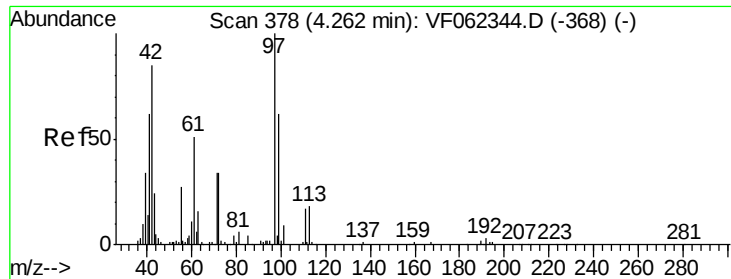
Tgt Ion: 43 Resp: 1487
Ion Ratio Lower Upper
43 100
74 25.6 15.0 22.4#



#25
2-Butanone
Concen: 2.325 ug/l
RT: 4.56 min Scan# 409
Delta R.T. 0.03 min
Lab File: VF062577.D
Acq: 14 May 2019 9:10

Tgt Ion: 43 Resp: 1685
Ion Ratio Lower Upper
43 100
72 0.0 14.2 21.4#





#29

Tetrahydrofuran

Concen: 1.132 ug/l

RT: 4.29 min Scan# 381

Delta R.T. 0.02 min

Lab File: VF062577.D

Acq: 14 May 2019 9:10

Instrument :

MSVOA_F

ClientSampleId :

P021-SS009-0612-01

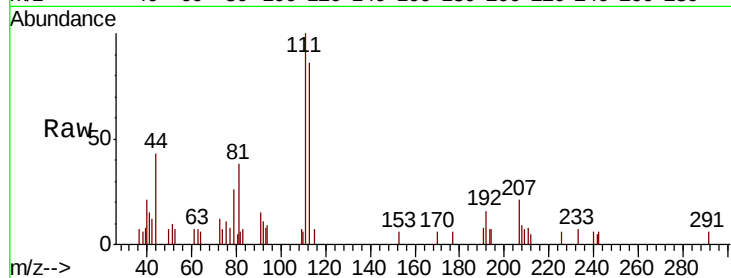
Tgt Ion: 42 Resp: 377

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

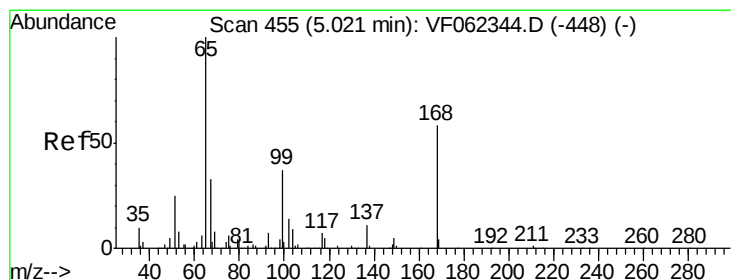
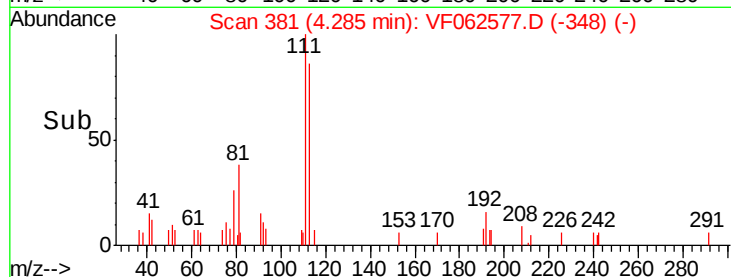
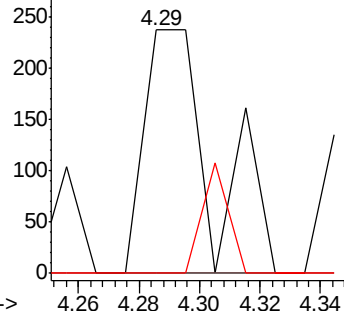
71 17.0 31.7 47.5#



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



#33

1,2-Dichloroethane-d4

Concen: 47.144 ug/l

RT: 5.06 min Scan# 460

Delta R.T. 0.04 min

Lab File: VF062577.D

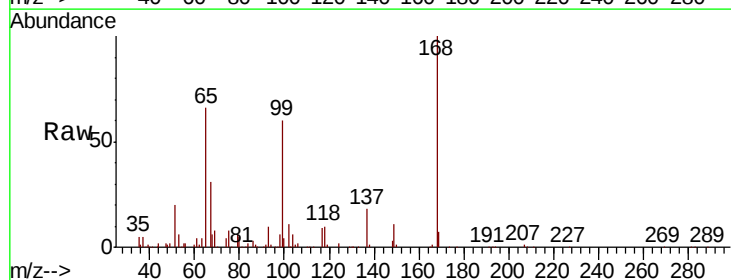
Acq: 14 May 2019 9:10

Tgt Ion: 65 Resp: 134431

Ion Ratio Lower Upper

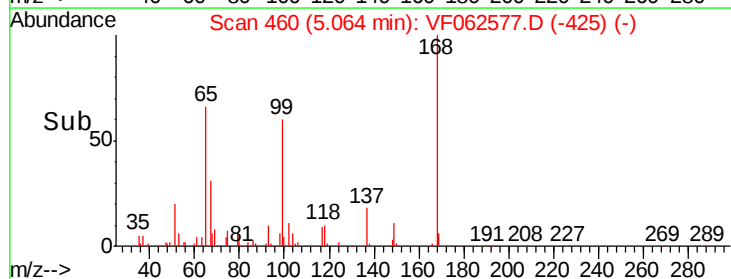
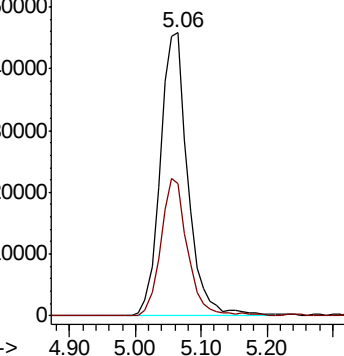
65 100

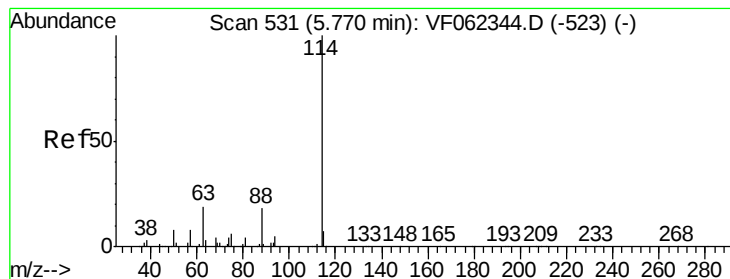
67 46.4 0.0 85.8



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# 535

Delta R.T. 0.03 min

Lab File: VF062577.D

Acq: 14 May 2019 9:10

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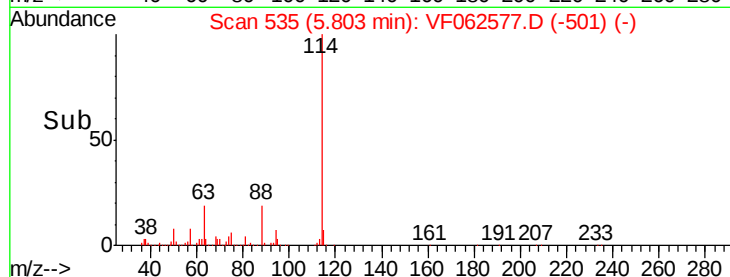
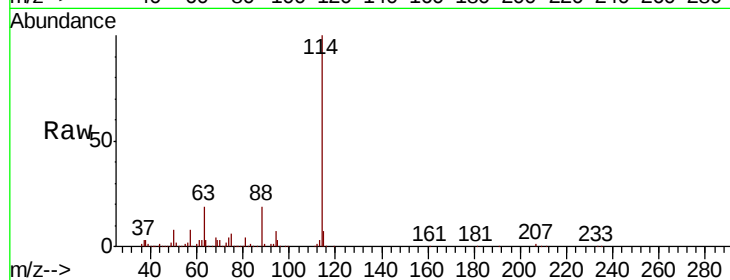
Tgt Ion:114 Resp: 416962

Ion Ratio Lower Upper

114 100

63 19.5 0.0 37.4

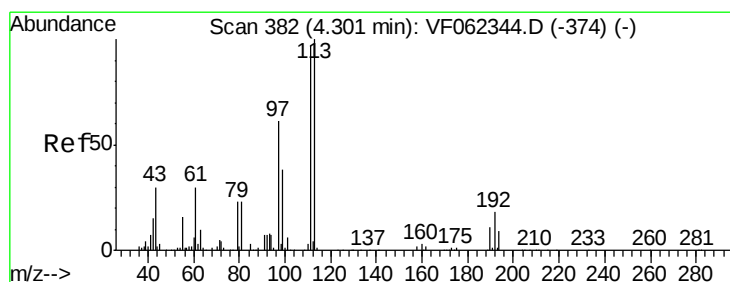
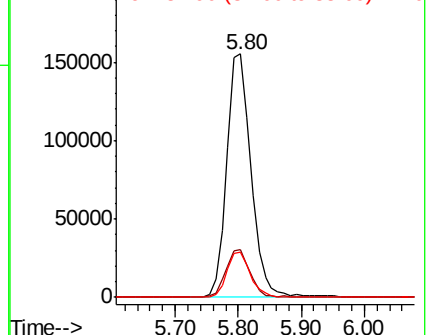
88 18.6 0.0 36.4



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: 46.758 ug/l

RT: 4.33 min Scan# 386

Delta R.T. 0.03 min

Lab File: VF062577.D

Acq: 14 May 2019 9:10

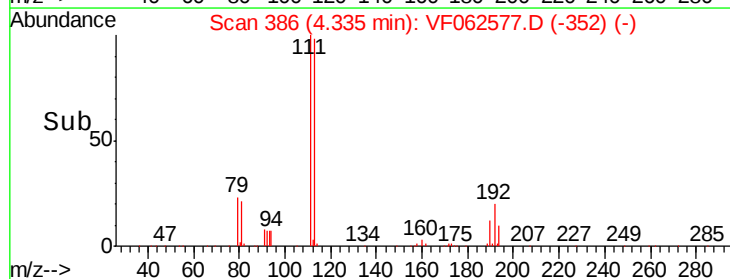
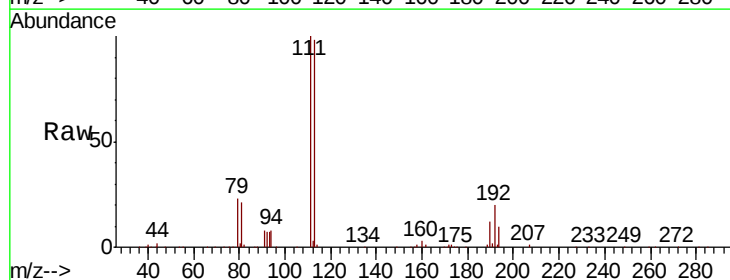
Tgt Ion:113 Resp: 155324

Ion Ratio Lower Upper

113 100

111 100.9 79.4 119.0

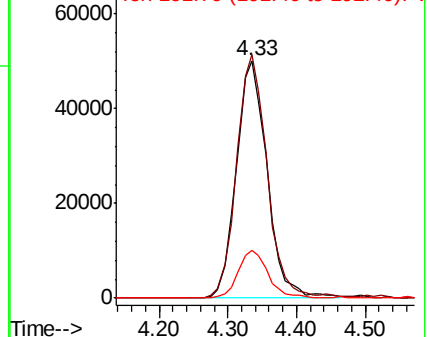
192 19.7 16.0 24.0

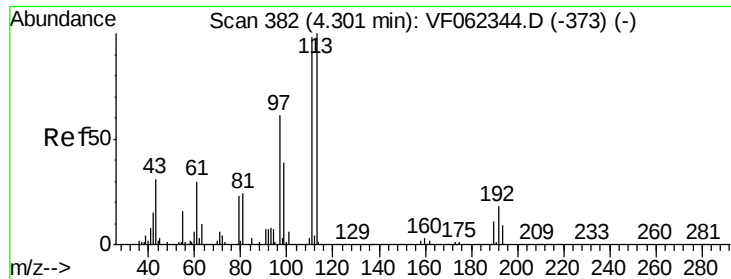


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

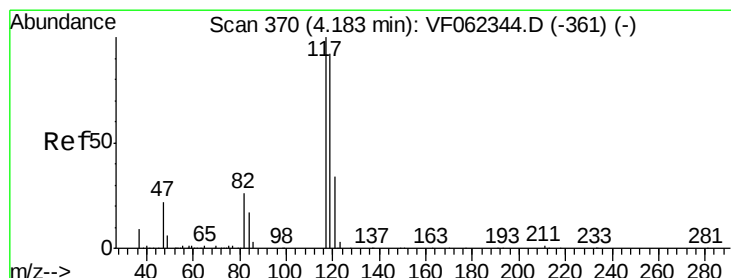
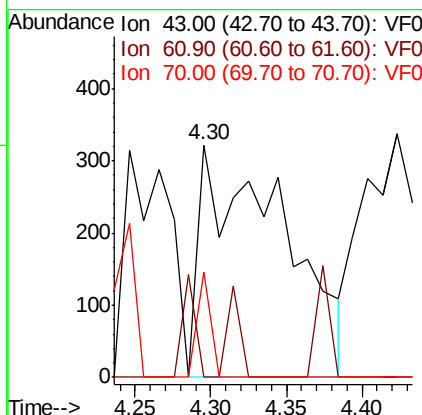
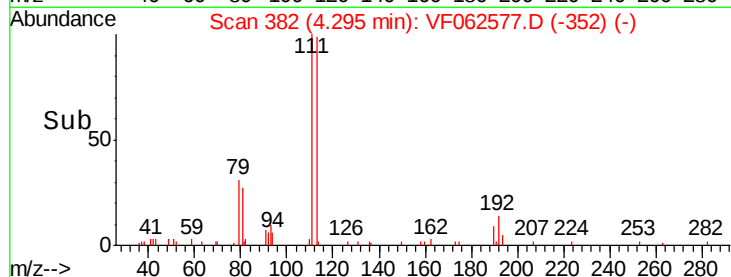
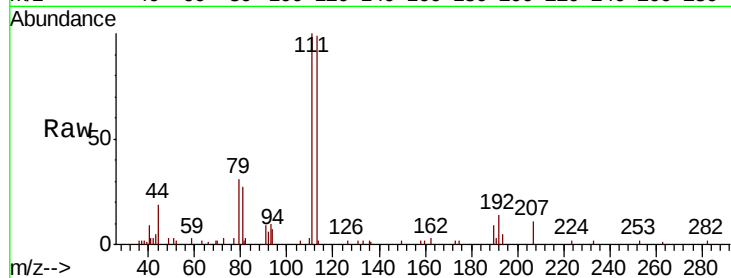




#37
Ethyl Acetate
Concen: Below Cal
RT: 4.30 min Scan# 382
Delta R.T. -0.01 min
Lab File: VF062577.D
Acq: 14 May 2019 9:10

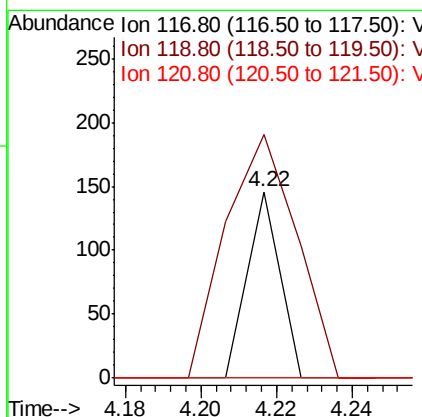
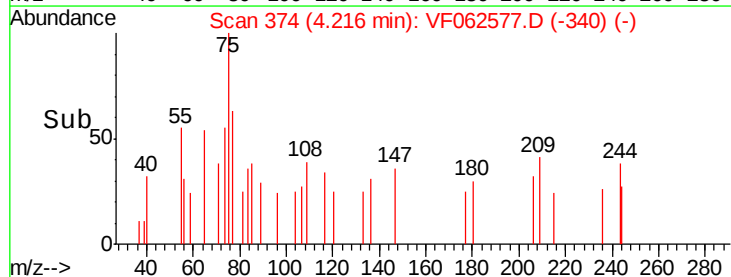
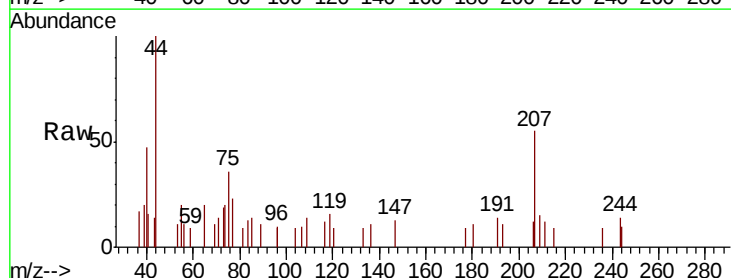
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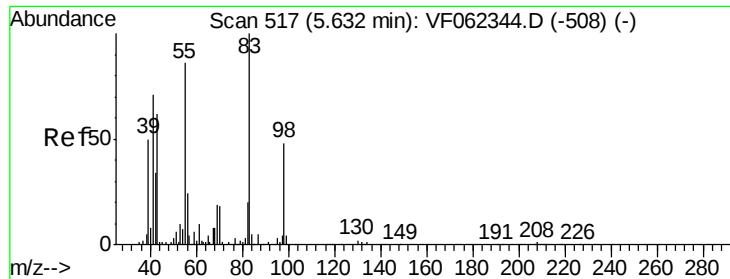
Tgt Ion: 43 Resp: 1230
Ion Ratio Lower Upper
43 100
61 6.9 0.0 0.0#
70 7.0 8.2 12.2#



#38
Carbon Tetrachloride
Concen: Below Cal
RT: 4.22 min Scan# 374
Delta R.T. 0.03 min
Lab File: VF062577.D
Acq: 14 May 2019 9:10

Tgt Ion: 117 Resp: 86
Ion Ratio Lower Upper
117 100
119 130.8 73.4 110.2#
121 0.0 27.4 41.0#





#39

Methylcyclohexane

Concen: 1.791 ug/l

RT: 5.79 min Scan# 534

Delta R.T. 0.16 min

Lab File: VF062577.D

Acq: 14 May 2019 9:10

Instrument :

MSVOA_F

ClientSampleId :

P021-SS009-0612-01

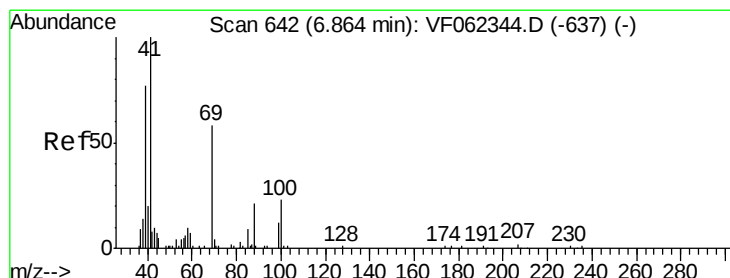
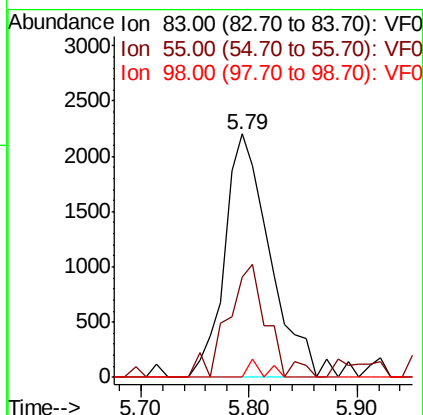
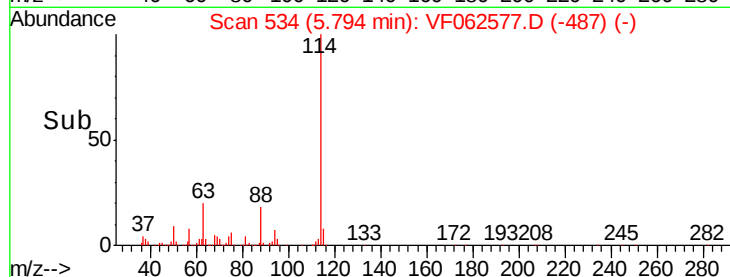
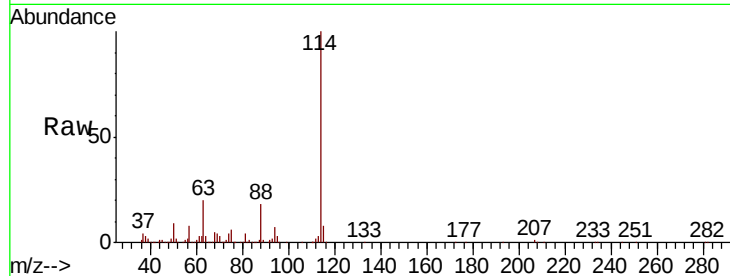
Tgt Ion: 83 Resp: 6432

Ion Ratio Lower Upper

83 100

55 41.3 69.0 103.6#

98 0.0 38.6 58.0#



#49

1,4-Dioxane

Concen: Below Cal

RT: 6.89 min Scan# 645

Delta R.T. 0.02 min

Lab File: VF062577.D

Acq: 14 May 2019 9:10

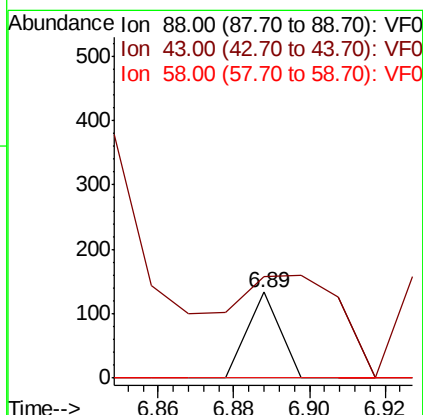
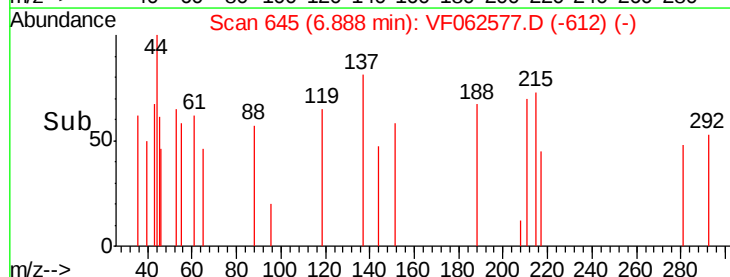
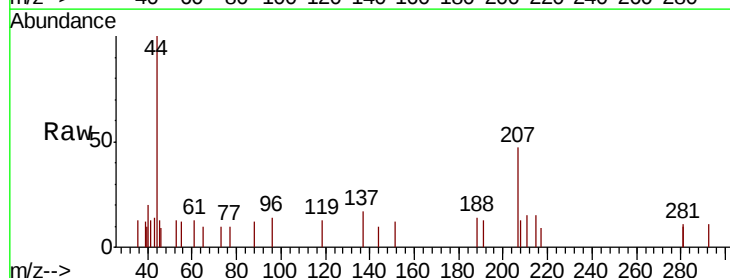
Tgt Ion: 88 Resp: 79

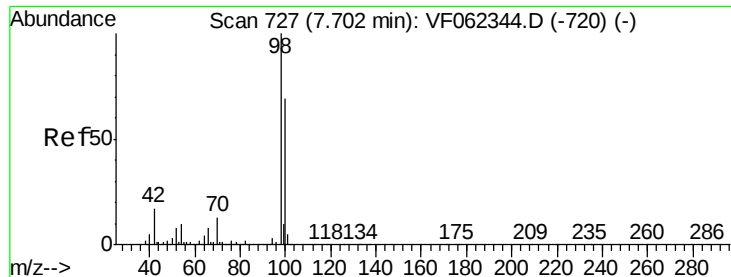
Ion Ratio Lower Upper

88 100

43 408.9 55.6 83.4#

58 0.0 52.8 79.2#





#50

Toluene-d8

Concen: 36.789 ug/l

RT: 7.74 min Scan# 731

Delta R.T. 0.03 min

Lab File: VF062577.D

Acq: 14 May 2019 9:10

Instrument :

MSVOA_F

ClientSampleId :

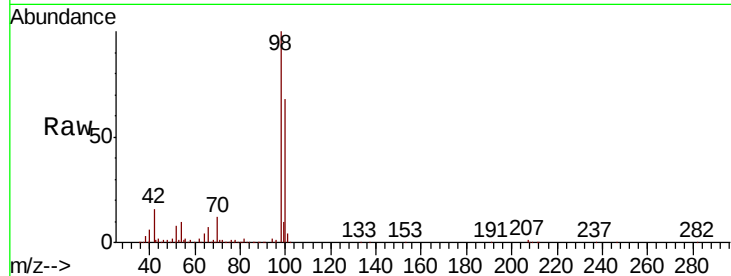
P021-SS009-0612-01

Tgt Ion: 98 Resp: 295824

Ion Ratio Lower Upper

98 100

100 65.7 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

7.74

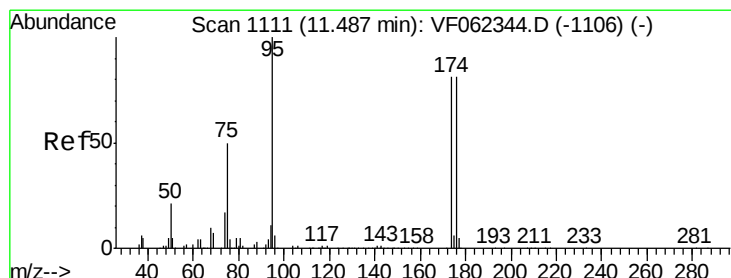
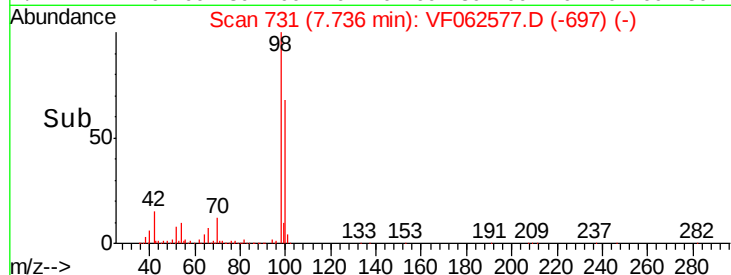
100000

50000

0

Time-->

7.60 7.70 7.80 7.90



#62

4-Bromofluorobenzene

Concen: 32.356 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. 0.02 min

Lab File: VF062577.D

Acq: 14 May 2019 9:10

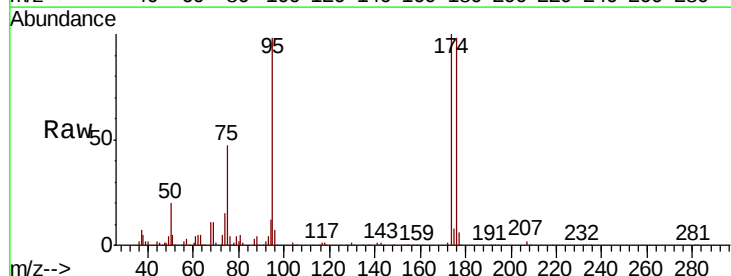
Tgt Ion: 95 Resp: 117382

Ion Ratio Lower Upper

95 100

174 100.8 0.0 191.8

176 97.2 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

80000

60000

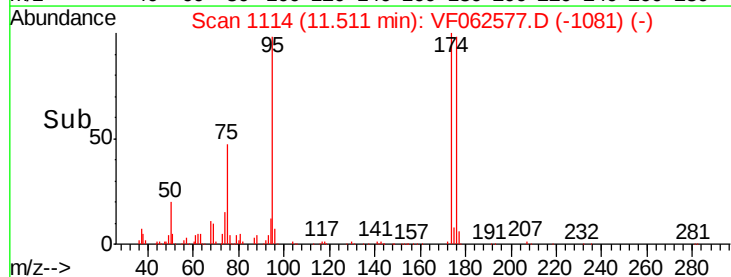
40000

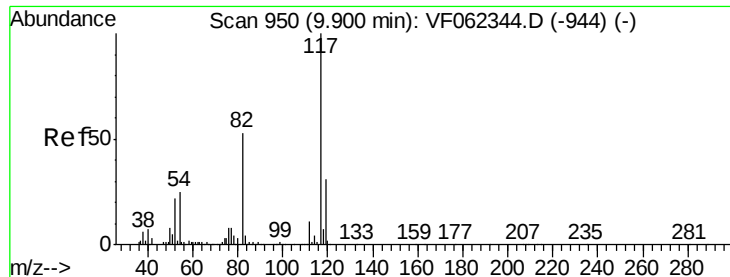
20000

0

Time-->

11.40 11.60

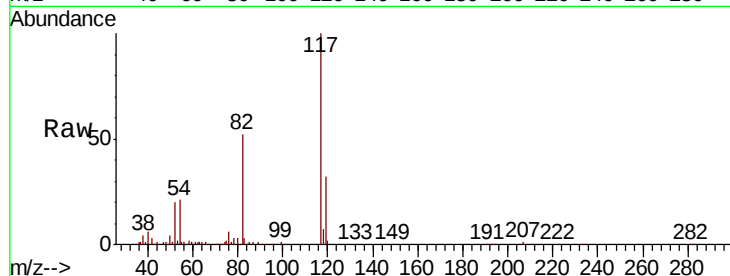




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.93 min Scan# 954
Delta R.T. 0.03 min
Lab File: VF062577.D
Acq: 14 May 2019 9:10

Instrument :
MSVOA_F
ClientSampleId :
P021-SS009-0612-01

Tgt Ion	Ratio	Lower	Upper
117	100		
82	51.7	42.2	63.2
119	31.8	25.0	37.4

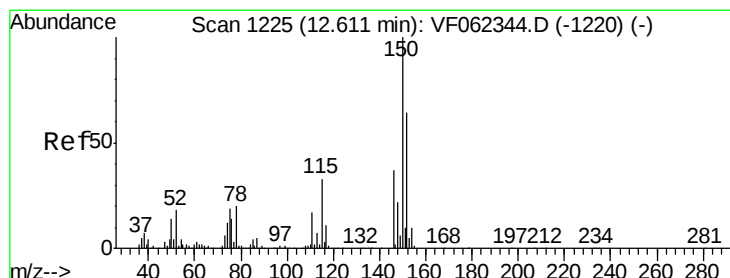
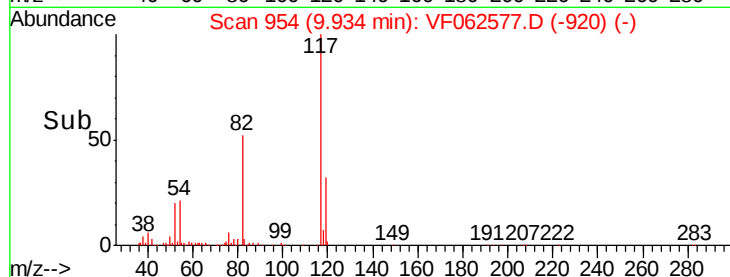
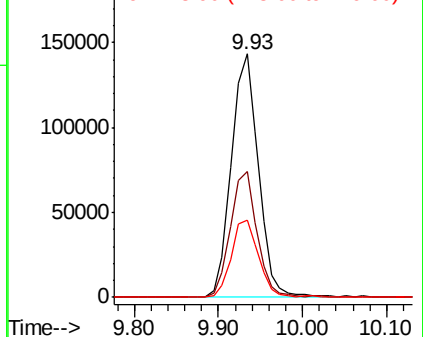


Abundance

Ion 116.90 (116.60 to 117.60): V

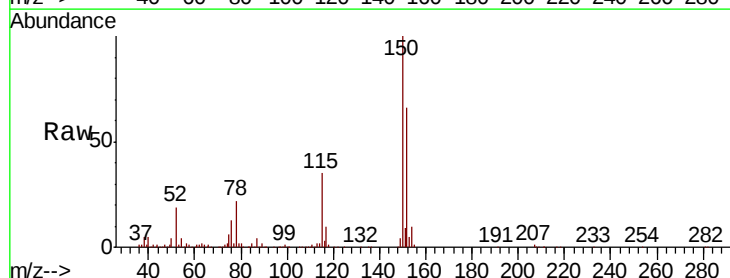
Ion 82.00 (81.70 to 82.70): VF0

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: VF062577.D
Acq: 14 May 2019 9:10

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.2	26.4	79.2
150	154.0	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

