

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF050719\
 Data File : VF062367.D
 Acq On : 7 May 2019 19:45
 Operator : FY/SY
 Sample : K2704-07
 Misc : 6.14g/5mL/MSVOA F/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SB-1(35)

Quant Time: May 08 01:15:54 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	5.04	168	379332	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.75	114	511321	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.89	117	405477	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.61	152	221487	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.02	65	160803	44.86	ug/l	0.00
Spiked Amount			Recovery	=	89.72%	
35) Dibromofluoromethane	4.29	113	189833	46.60	ug/l	-0.02
Spiked Amount			Recovery	=	93.20%	
50) Toluene-d8	7.70	98	389106	39.46	ug/l	0.00
Spiked Amount			Recovery	=	78.92%	
62) 4-Bromofluorobenzene	11.48	95	166854	37.51	ug/l	0.00
Spiked Amount			Recovery	=	75.02%	

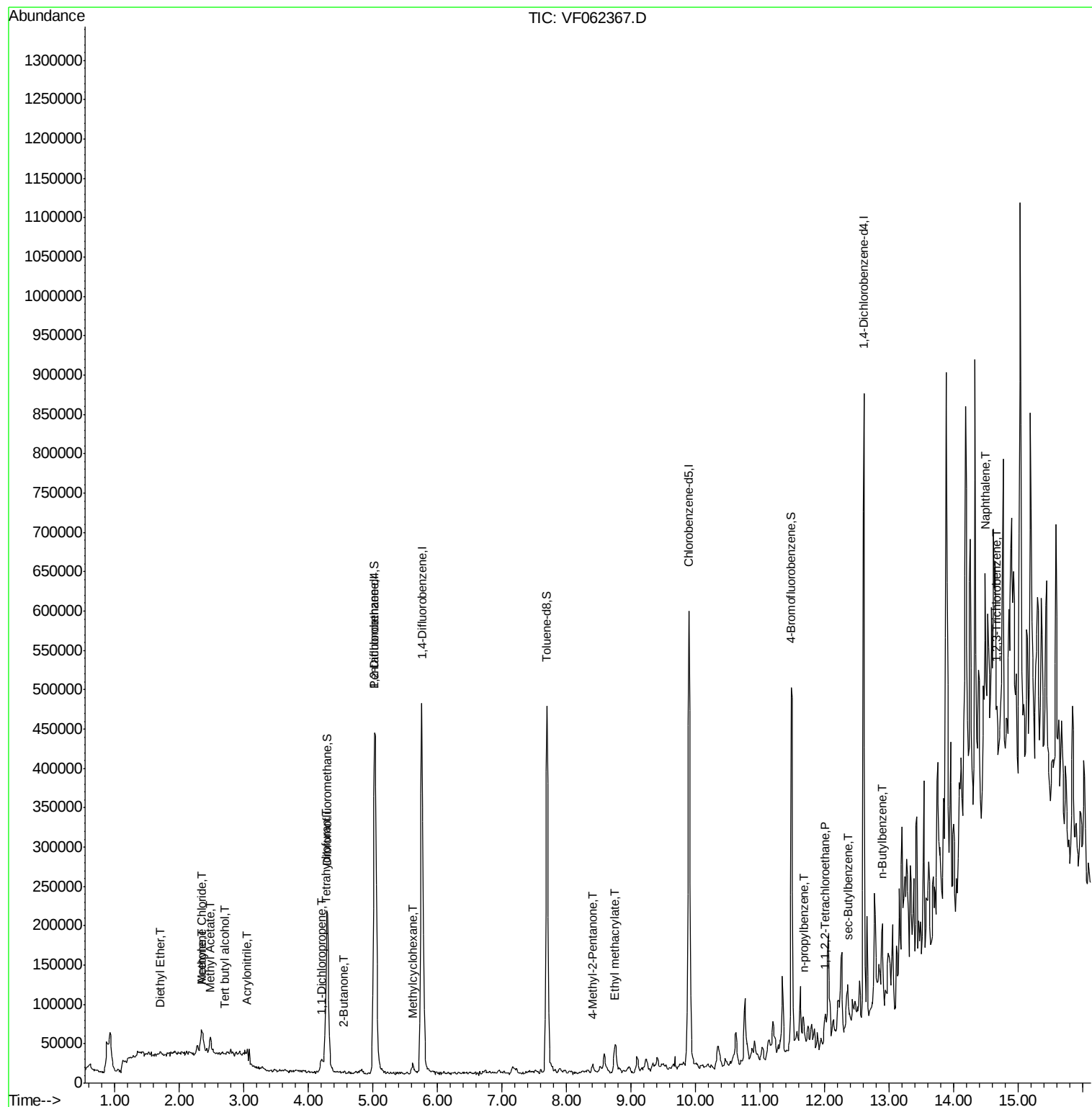
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.44	94	441	Below Cal	#	13
8) Diethyl Ether	1.70	74	2094	2.310	ug/l	73
11) Tert butyl alcohol	2.71	59	824	4.067	ug/l #	70
13) Acrolein	2.09	56	464	Below Cal	#	13
15) Acrylonitrile	3.05	53	654	1.704	ug/l #	21
16) Acetone	2.34	43	42322	58.360	ug/l	96
18) Methyl Acetate	2.48	43	16995	10.368	ug/l #	58
20) Methylene Chloride	2.35	84	15001	5.717	ug/l #	76
25) 2-Butanone	4.54	43	1418	1.556	ug/l #	60
29) Tetrahydrofuran	4.27	42	1943	4.640	ug/l #	55
36) 1,1-Dichloropropene	4.21	75	29743	6.771	ug/l #	47
37) Ethyl Acetate	4.32	43	1334	Below Cal	#	78
38) Carbon Tetrachloride	4.18	117	193	Below Cal	#	14
39) Methylcyclohexane	5.63	83	5519	1.253	ug/l #	73
49) 1,4-Dioxane	6.85	88	72	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.41	43	4887	3.228	ug/l #	41
56) Ethyl methacrylate	8.75	69	15664	7.834	ug/l #	81
75) 1,1,2,2-Tetrachloroethane	11.99	83	5601	2.724	ug/l	64
78) n-propylbenzene	11.66	91	21312	1.525	ug/l	94
85) sec-Butylbenzene	12.36	105	29200	1.983	ug/l	81
89) n-Butylbenzene	12.89	91	18683	1.535	ug/l	94
95) Naphthalene	14.49	128	96247	11.716	ug/l #	92
96) 1,2,3-Trichlorobenzene	14.67	180	8868	1.675	ug/l #	65

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF050719\
Data File : VF062367.D
Acq On : 7 May 2019 19:45
Operator : FY/SY
Sample : K2704-07
Misc : 6.14g/5mL/MSVOA F/SOIL
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
SB-1(35)

Quant Time: May 08 01:15:54 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
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: 5.04 min Scan# 457

Delta R.T. -0.02 min

Lab File: VF062367.D

Acq: 7 May 2019 19:45

Instrument :

MSVOA_F

ClientSampleId :

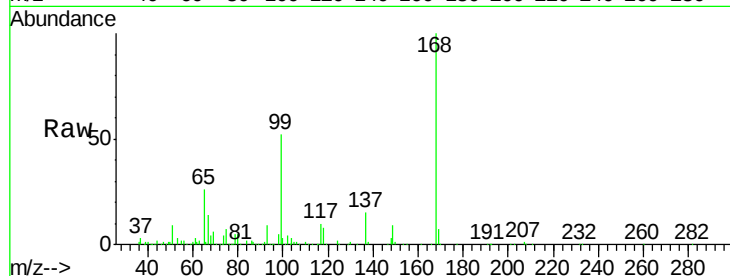
SB-1(35)

Tot Ion:168 Resp: 379332

Ion Ratio Lower Upper

168 100

99 52.2 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

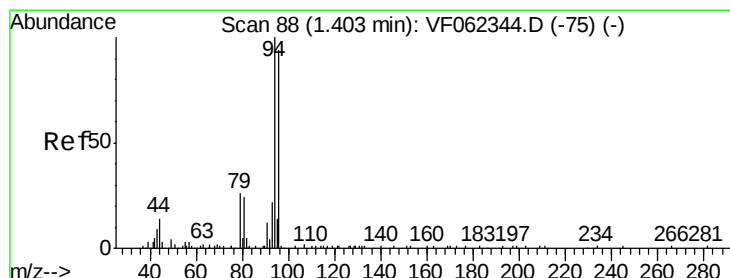
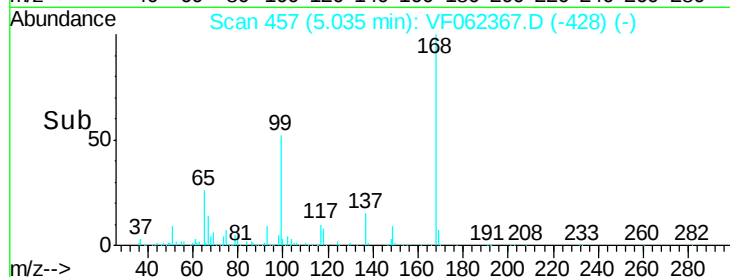
5.04

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.44 min Scan# 92

Delta R.T. 0.03 min

Lab File: VF062367.D

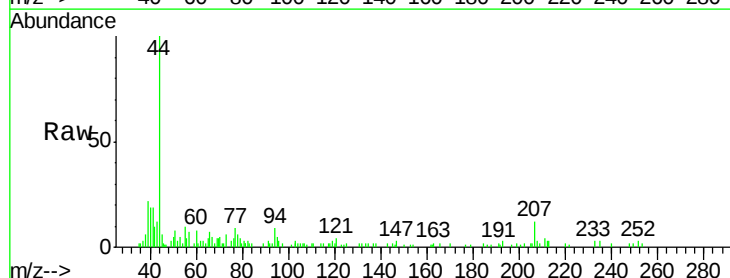
Acq: 7 May 2019 19:45

Tgt Ion: 94 Resp: 441

Ion Ratio Lower Upper

94 100

96 10.2 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

1.44

800

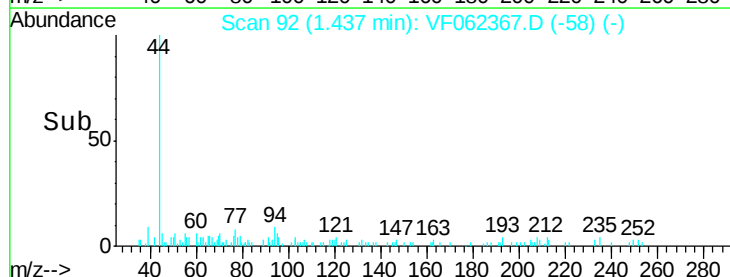
600

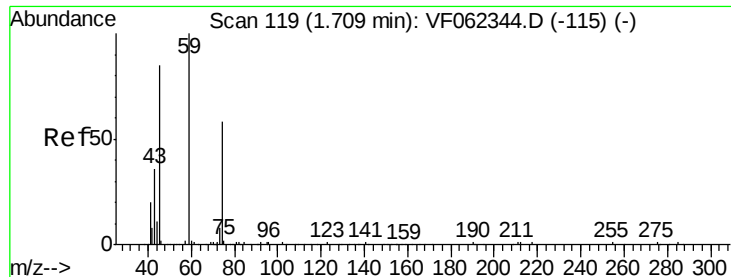
400

200

0

Time-->





#8

Diethyl Ether

Concen: 2.310 ug/l

RT: 1.70 min Scan# 119

Delta R.T. -0.01 min

Lab File: VF062367.D

Acq: 7 May 2019 19:45

Instrument :

MSVOA_F

ClientSampleId :

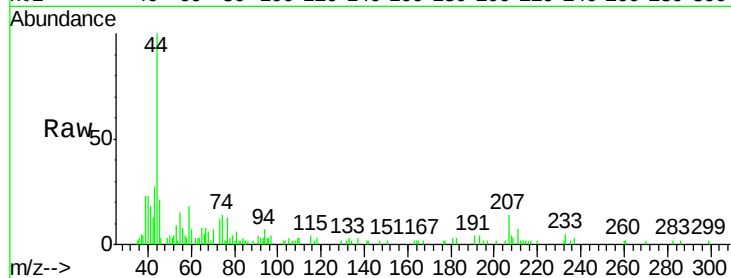
SB-1(35)

Tot Ion: 74 Resp: 2094

Ion Ratio Lower Upper

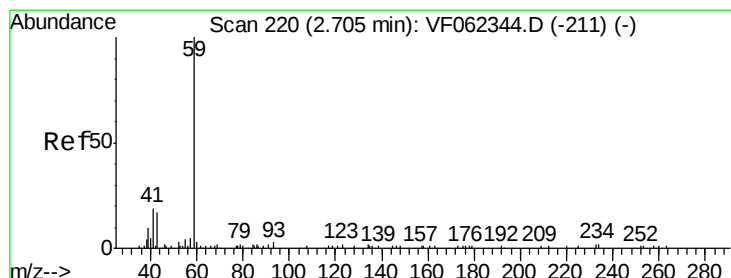
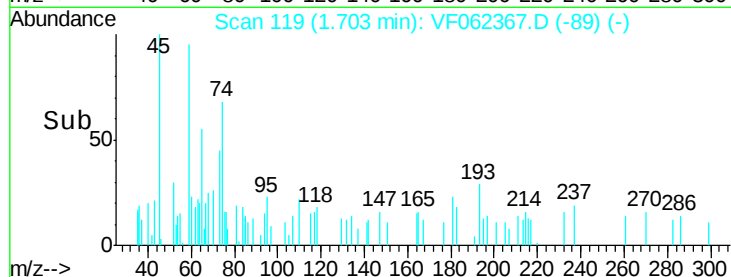
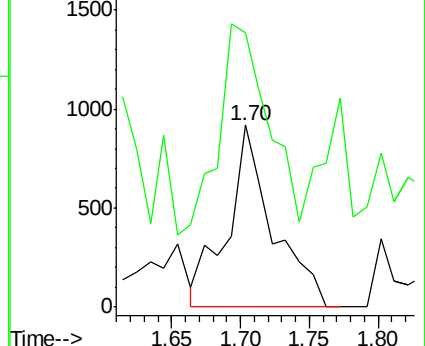
74 100

45 113.6 73.9 221.6



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



#11

Tert butyl alcohol

Concen: 4.067 ug/l

RT: 2.71 min Scan# 221

Delta R.T. 0.00 min

Lab File: VF062367.D

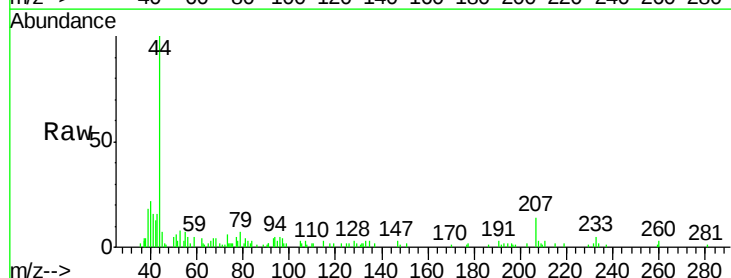
Acq: 7 May 2019 19:45

Tgt Ion: 59 Resp: 824

Ion Ratio Lower Upper

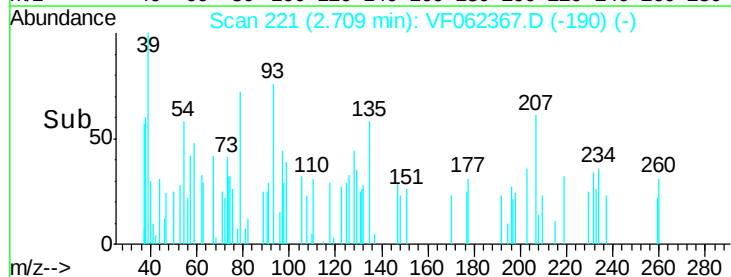
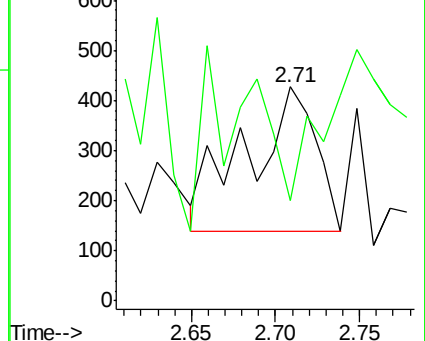
59 100

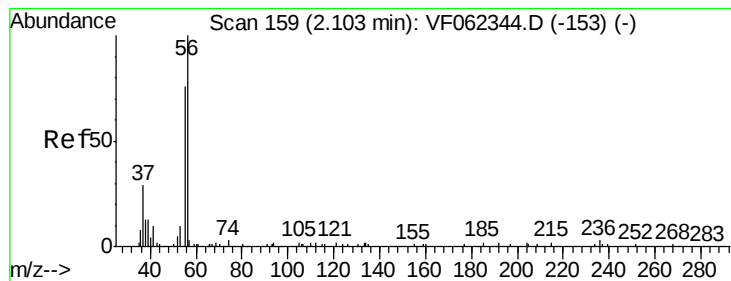
57 0.0 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: Below Cal

RT: 2.09 min Scan# 158

Delta R.T. -0.02 min

Lab File: VF062367.D

Acq: 7 May 2019 19:45

Instrument :

MSVOA_F

ClientSampled :

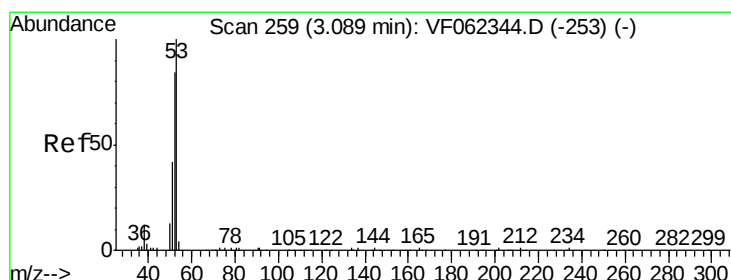
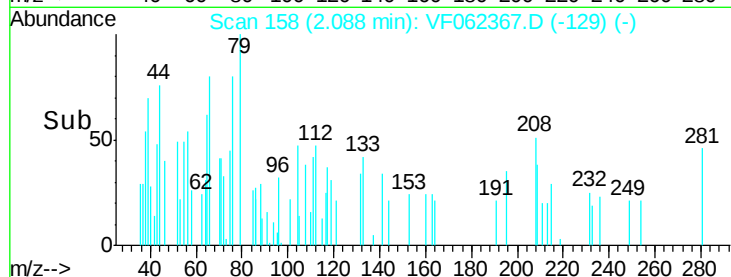
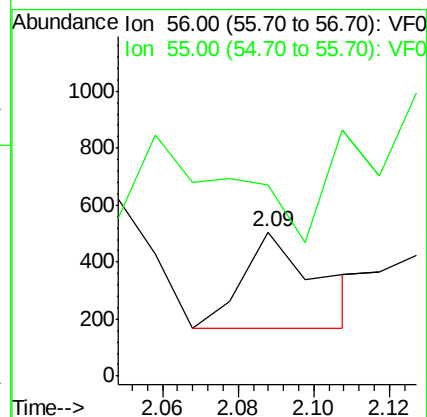
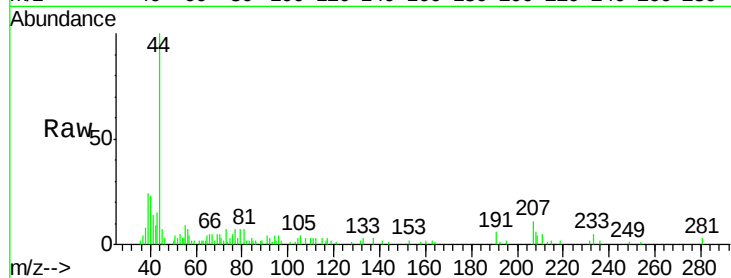
SB-1(35)

Tot Ion: 56 Resp: 464

Ion Ratio Lower Upper

56 100

55 0.0 58.4 87.6#



#15

Acrylonitrile

Concen: 1.704 ug/l

RT: 3.05 min Scan# 256

Delta R.T. -0.04 min

Lab File: VF062367.D

Acq: 7 May 2019 19:45

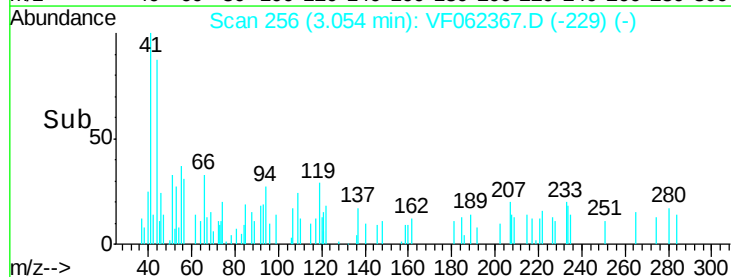
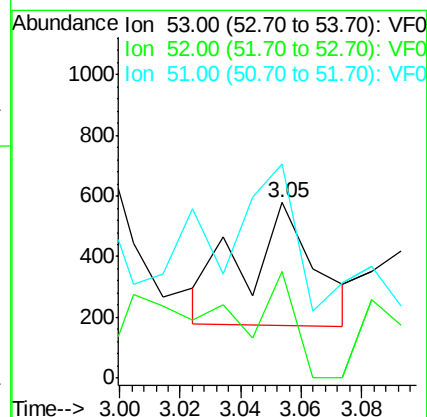
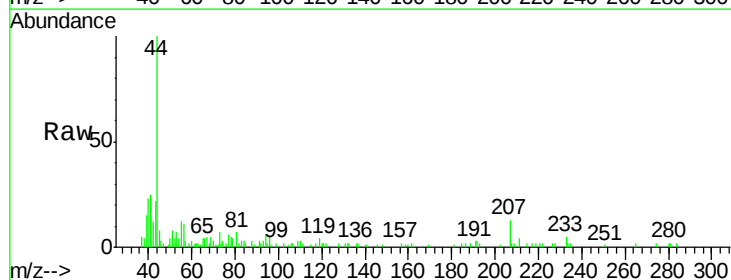
Tgt Ion: 53 Resp: 654

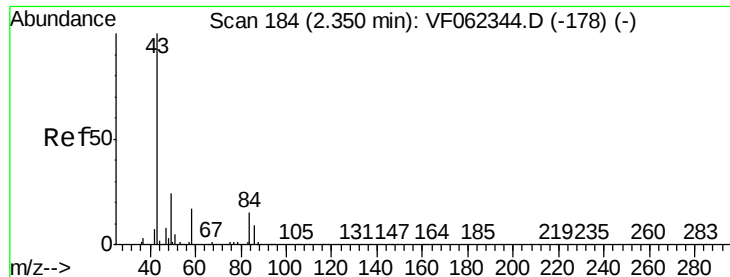
Ion Ratio Lower Upper

53 100

52 0.0 77.2 115.8#

51 80.9 40.6 61.0#





#16

Acetone

Concen: 58.360 ug/l

RT: 2.34 min Scan# 184

Delta R.T. -0.01 min

Lab File: VF062367.D

Acq: 7 May 2019 19:45

Instrument :

MSVOA_F

ClientSampleId :

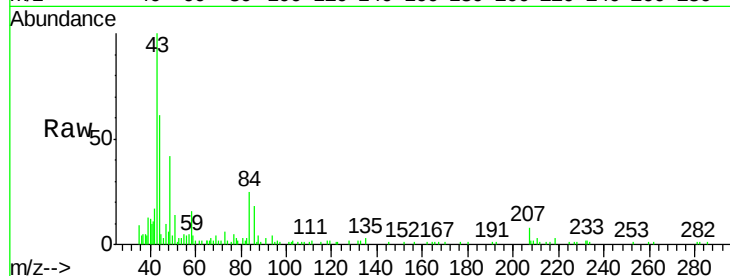
SB-1(35)

Tot Ion: 43 Resp: 42322

Ion Ratio Lower Upper

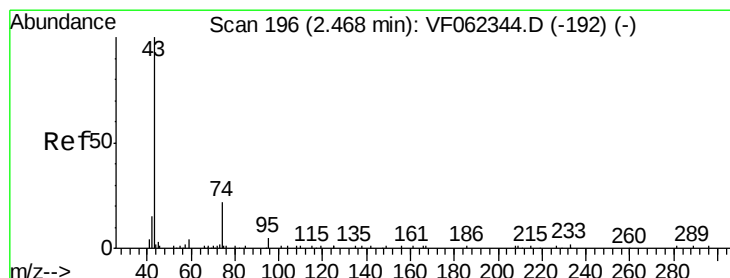
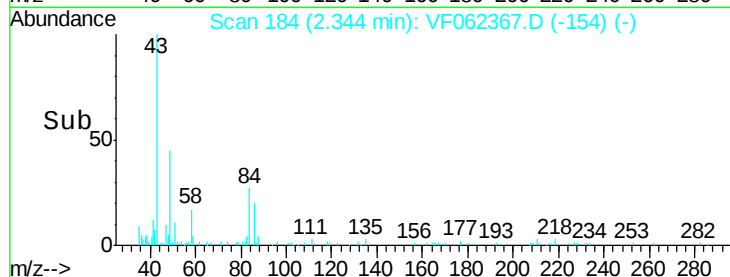
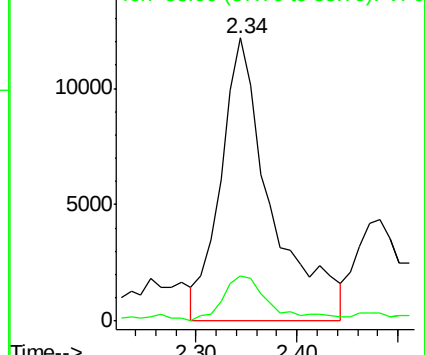
43 100

58 18.1 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: 10.368 ug/l

RT: 2.48 min Scan# 198

Delta R.T. 0.01 min

Lab File: VF062367.D

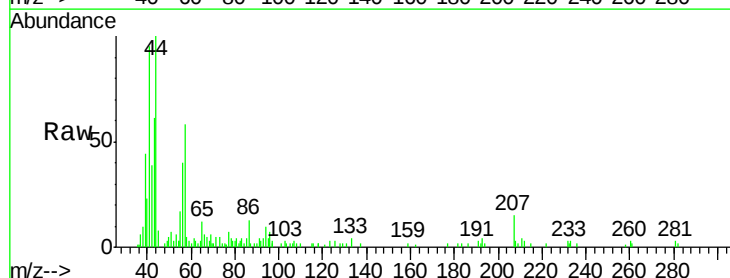
Acq: 7 May 2019 19:45

Tgt Ion: 43 Resp: 16995

Ion Ratio Lower Upper

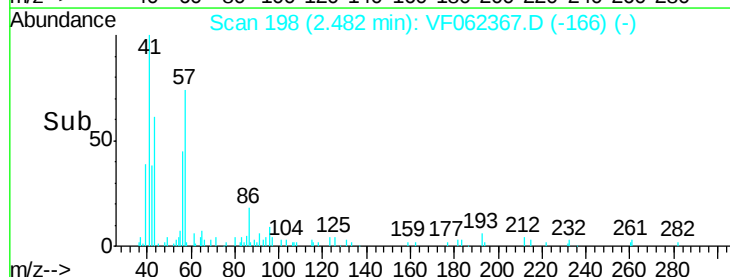
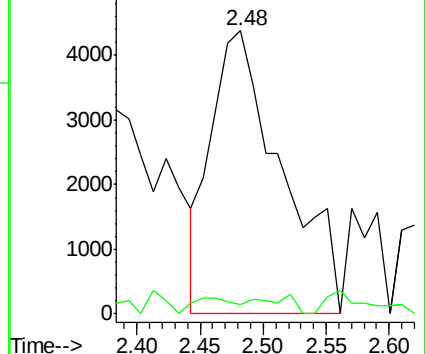
43 100

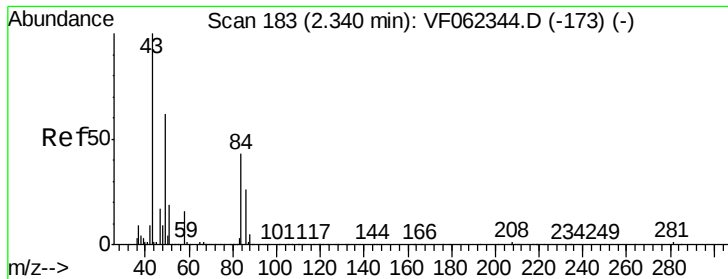
74 0.0 15.0 22.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

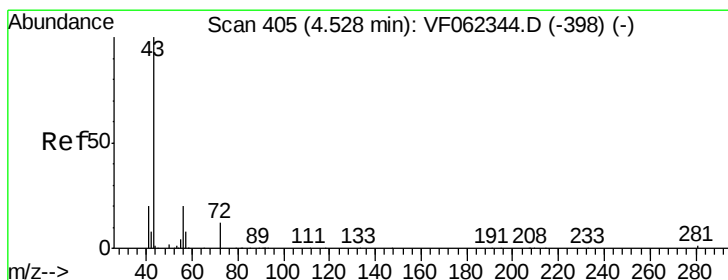
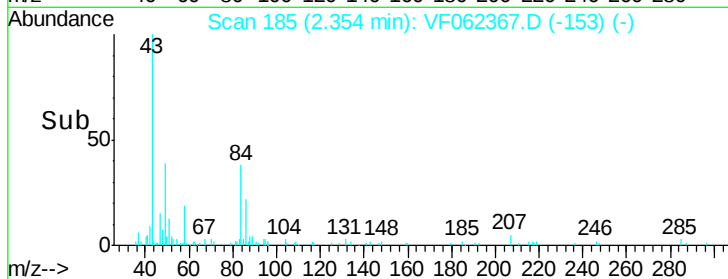
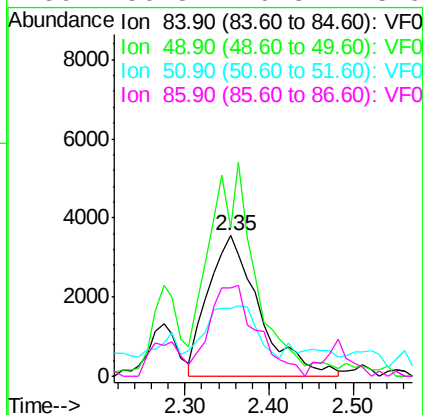
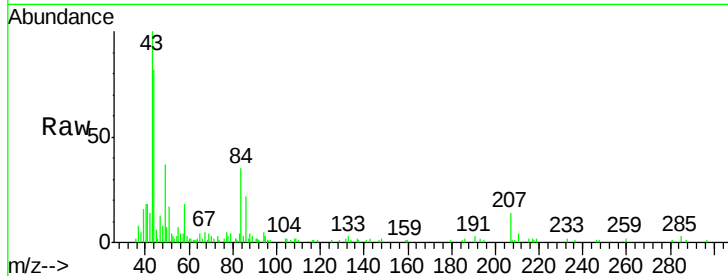




#20
Methvlene Chloride
Concen: 5.717 ug/l
RT: 2.35 min Scan# 185
Delta R.T. 0.01 min
Lab File: VF062367.D
Acq: 7 May 2019 19:45

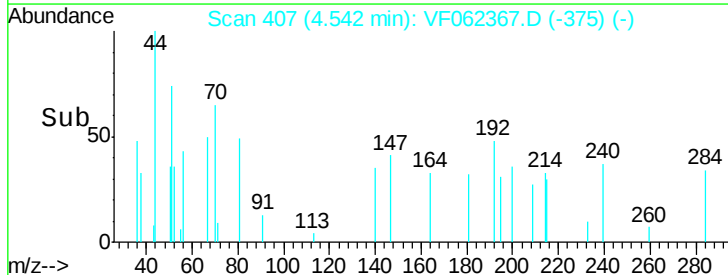
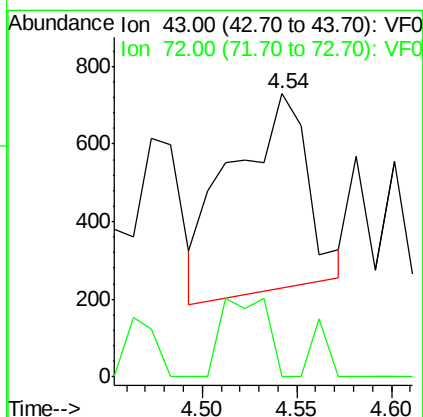
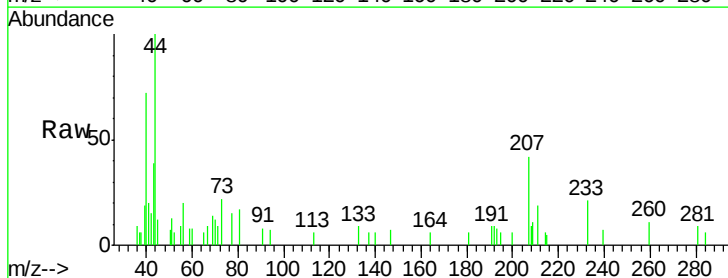
Instrument :
MSVOA_F
ClientSampleId :
SB-1(35)

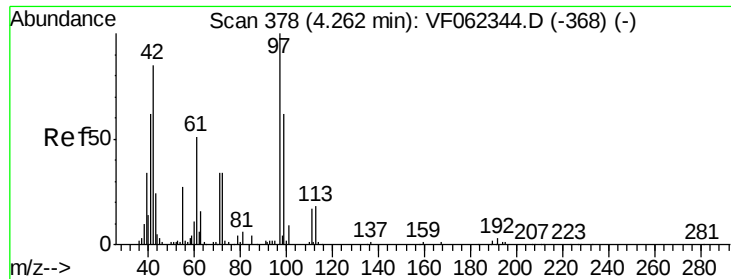
Tot Ion: 84 Resp: 15001
Ion Ratio Lower Upper
84 100
49 104.2 117.5 176.3#
51 36.3 37.0 55.4#
86 56.8 49.3 73.9



#25
2-Butanone
Concen: 1.556 ug/l
RT: 4.54 min Scan# 407
Delta R.T. 0.01 min
Lab File: VF062367.D
Acq: 7 May 2019 19:45

Tgt Ion: 43 Resp: 1418
Ion Ratio Lower Upper
43 100
72 0.0 14.2 21.4#





#29

Tetrahydrofuran

Concen: 4.640 ug/l

RT: 4.27 min Scan# 379

Delta R.T. 0.00 min

Lab File: VF062367.D

Acq: 7 May 2019 19:45

Instrument :

MSVOA_F

ClientSampleId :

SB-1(35)

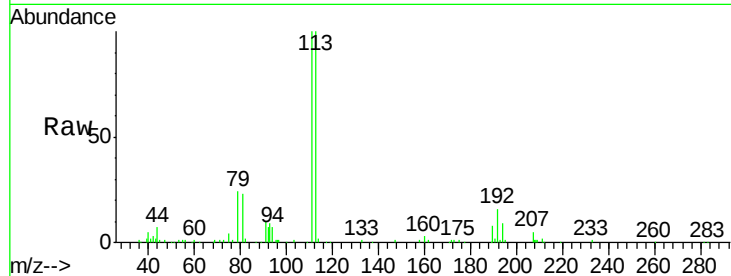
Tot Ion: 42 Resp: 1943

Ion Ratio Lower Upper

42 100

72 3.2 31.4 47.0#

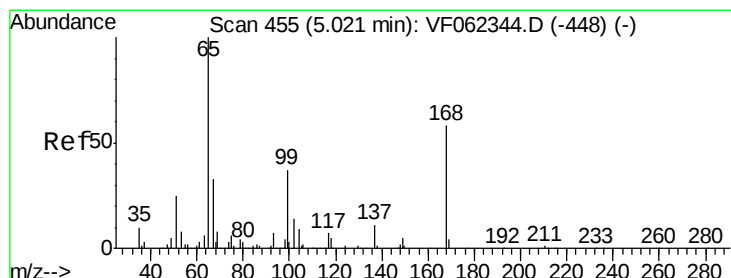
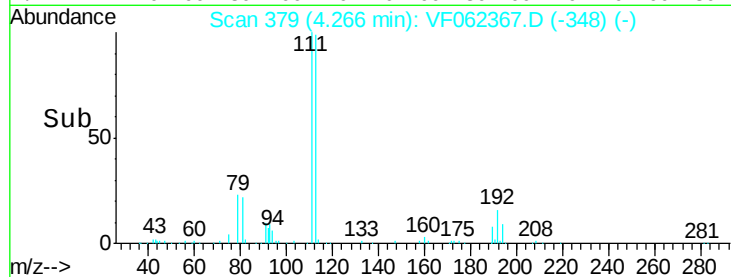
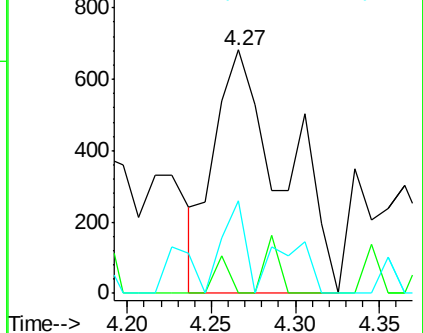
71 19.9 31.7 47.5#



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: 44.856 ug/l

RT: 5.02 min Scan# 455

Delta R.T. -0.01 min

Lab File: VF062367.D

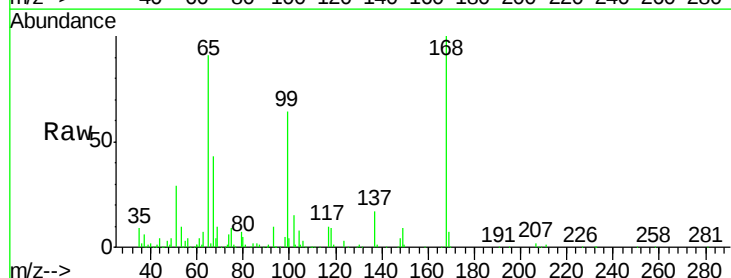
Acq: 7 May 2019 19:45

Tgt Ion: 65 Resp: 160803

Ion Ratio Lower Upper

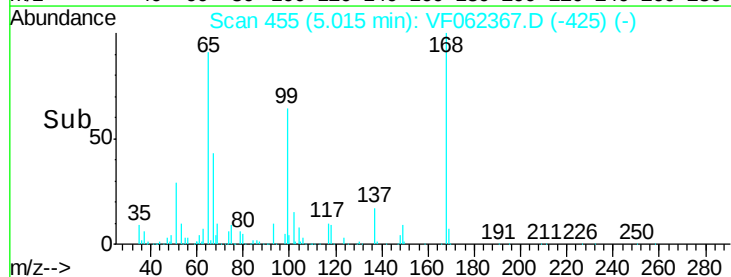
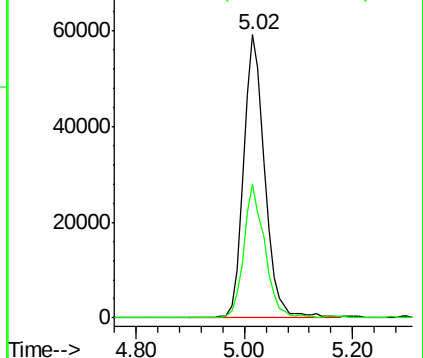
65 100

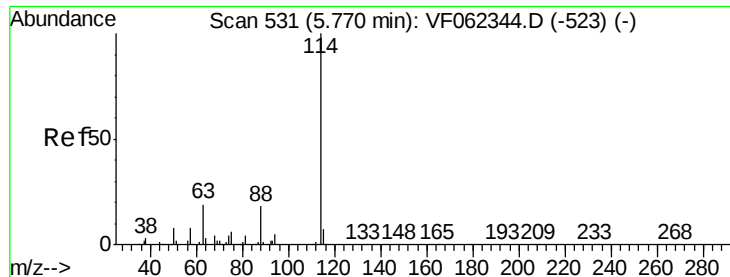
67 46.8 0.0 85.8



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: 5.75 min Scan# 530

Delta R.T. -0.02 min

Lab File: VF062367.D

Acq: 7 May 2019 19:45

Instrument :

MSVOA_F

ClientSampled :

SB-1(35)

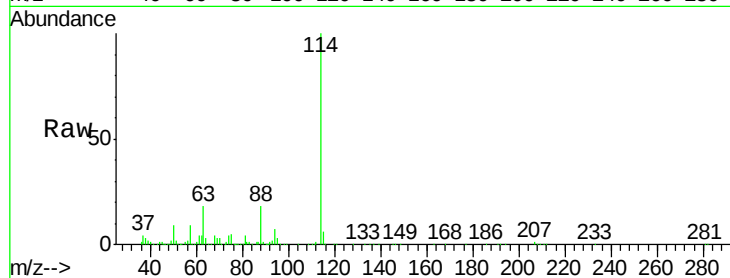
Tot Ion:114 Resp: 511321

Ion Ratio Lower Upper

114 100

63 18.5 0.0 37.4

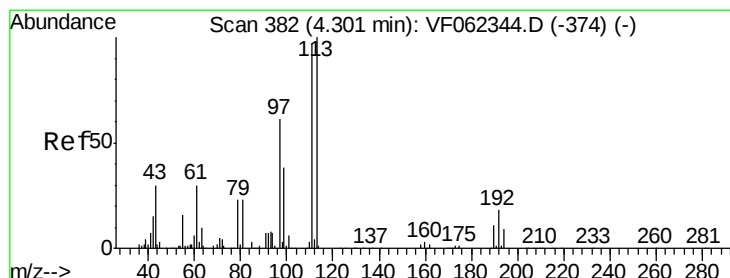
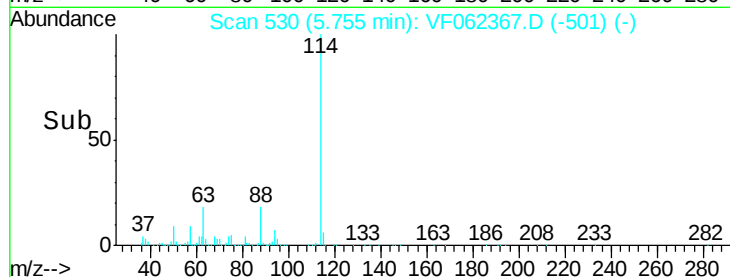
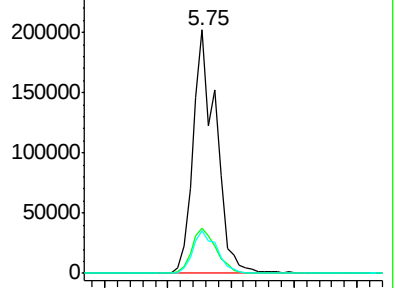
88 17.8 0.0 36.4



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: 46.601 ug/l

RT: 4.29 min Scan# 381

Delta R.T. -0.02 min

Lab File: VF062367.D

Acq: 7 May 2019 19:45

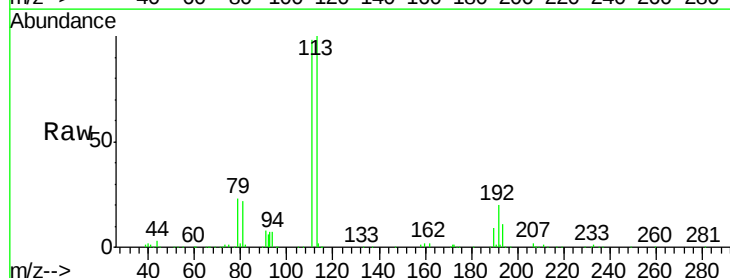
Tgt Ion:113 Resp: 189833

Ion Ratio Lower Upper

113 100

111 102.2 79.4 119.0

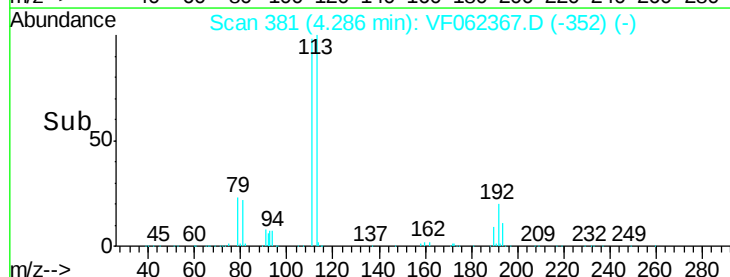
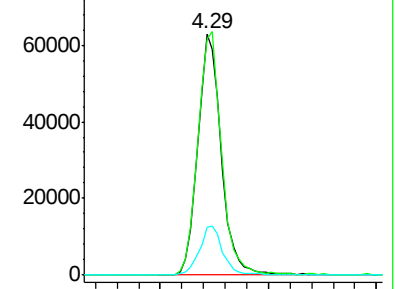
192 20.2 16.0 24.0

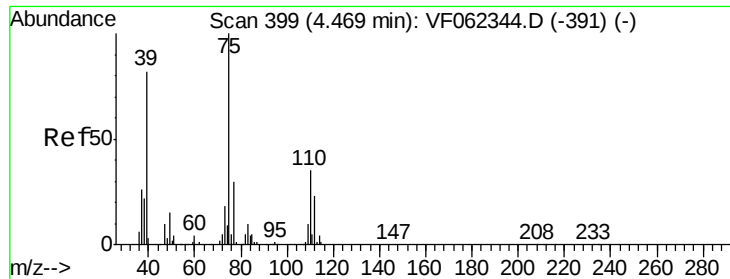


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 6.771 ug/l

RT: 4.21 min Scan# 373

Delta R.T. -0.26 min

Lab File: VF062367.D

Acq: 7 May 2019 19:45

Instrument :

MSVOA_F

ClientSampleId :

SB-1(35)

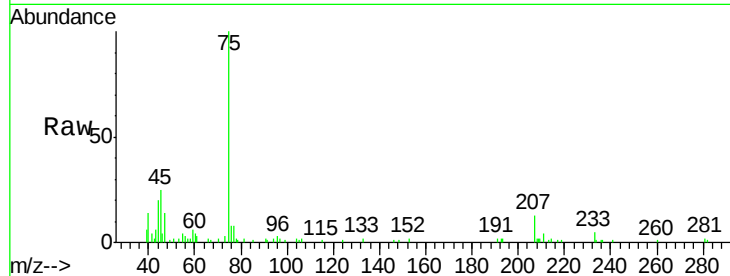
Tot Ion: 75 Resp: 29743

Ion Ratio Lower Upper

75 100

110 0.6 17.2 51.5#

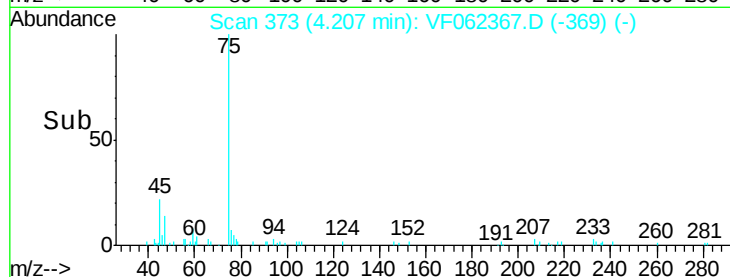
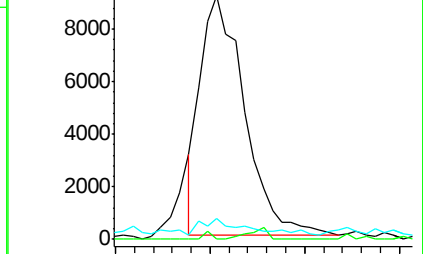
77 5.9 25.2 37.8#



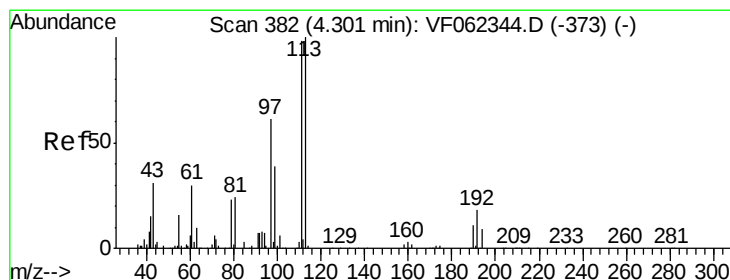
Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 109.90 (109.60 to 110.60): VF0

Ion 76.90 (76.60 to 77.60): VF0



Time--> 4.10 4.20 4.30



#37

Ethyl Acetate

Concen: Below Cal

RT: 4.32 min Scan# 384

Delta R.T. 0.01 min

Lab File: VF062367.D

Acq: 7 May 2019 19:45

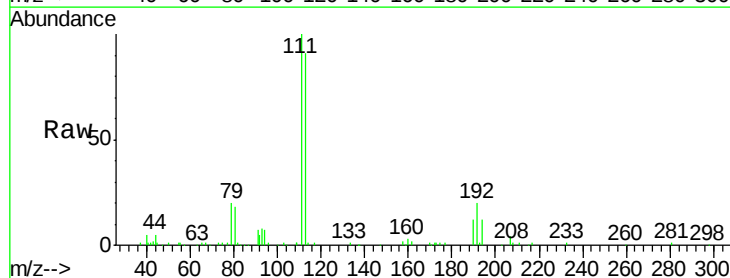
Tgt Ion: 43 Resp: 1334

Ion Ratio Lower Upper

43 100

61 0.0 0.0 0.0

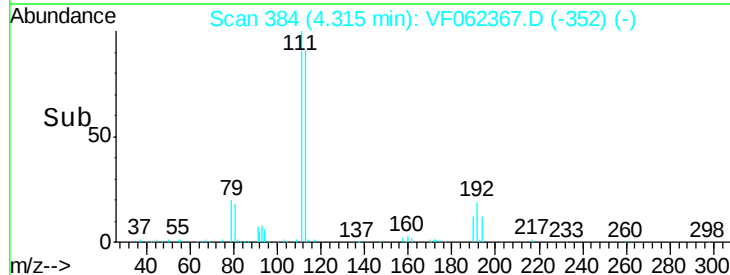
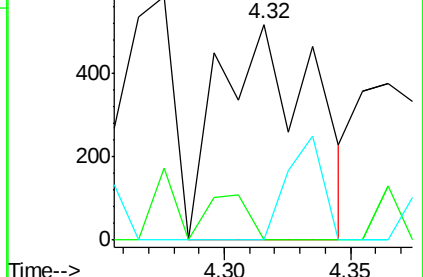
70 18.4 8.2 12.2#



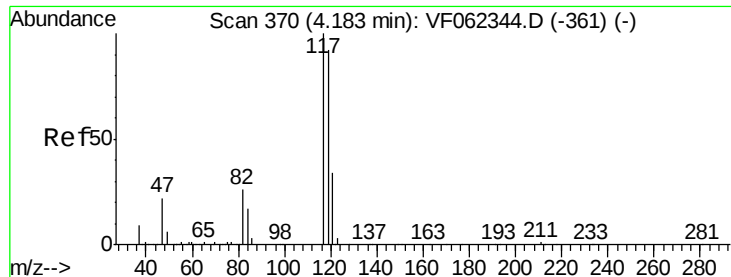
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 60.90 (60.60 to 61.60): VF0

Ion 70.00 (69.70 to 70.70): VF0



Time--> 4.30 4.35



#38

Carbon Tetrachloride

Concen: Below Cal

RT: 4.18 min Scan# 370

Delta R.T. -0.01 min

Lab File: VF062367.D

Acq: 7 May 2019 19:45

Instrument :

MSVOA_F

ClientSampleId :

SB-1(35)

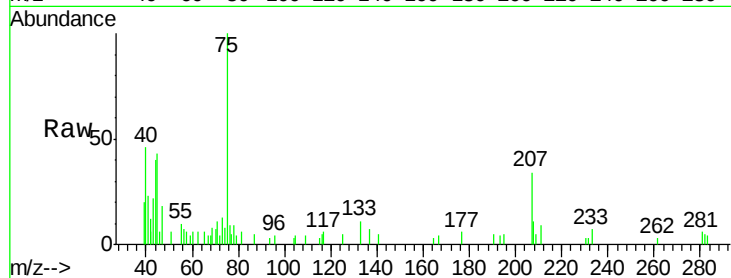
Tot Ion:117 Resp: 193

Ion Ratio Lower Upper

117 100

119 0.0 73.4 110.2#

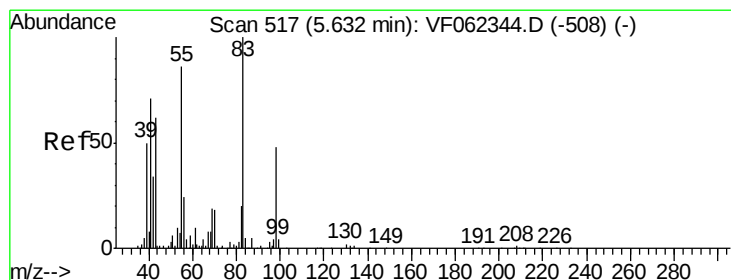
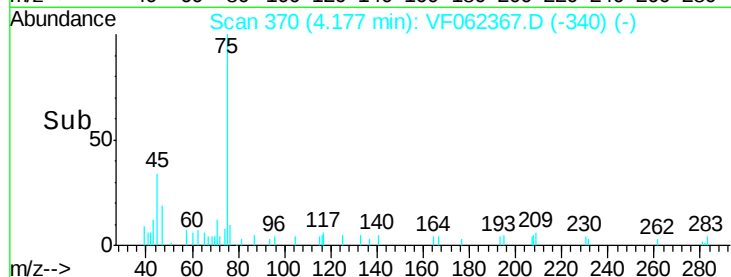
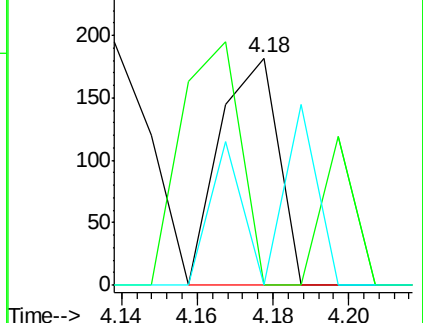
121 0.0 27.4 41.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 1.253 ug/l

RT: 5.63 min Scan# 517

Delta R.T. -0.01 min

Lab File: VF062367.D

Acq: 7 May 2019 19:45

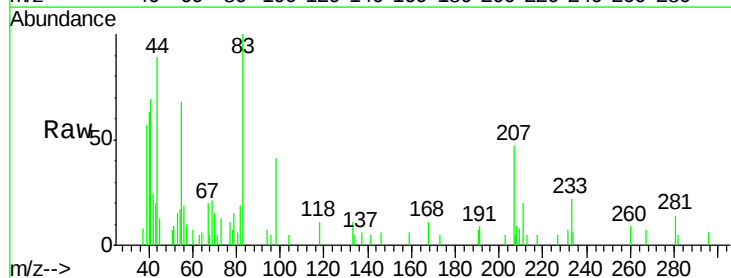
Tgt Ion: 83 Resp: 5519

Ion Ratio Lower Upper

83 100

55 58.3 69.0 103.6#

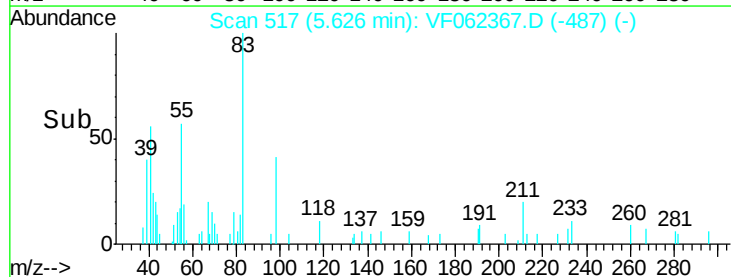
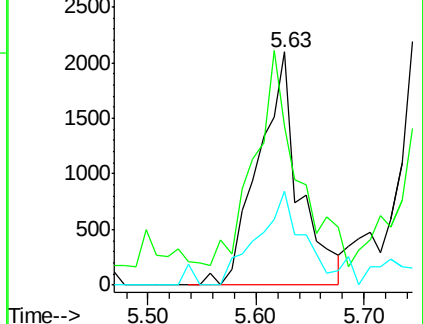
98 34.2 38.6 58.0#

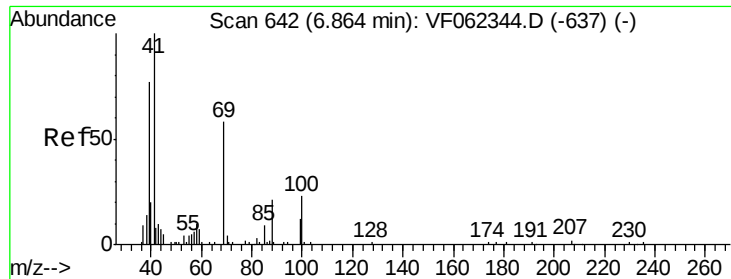


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

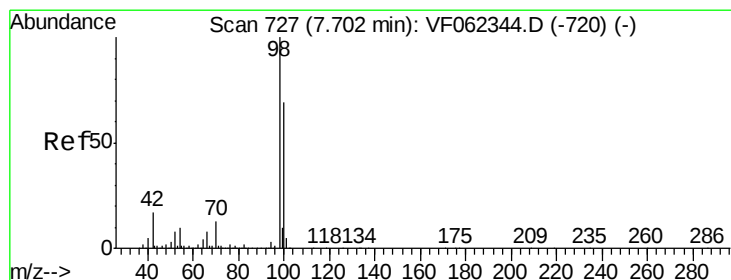
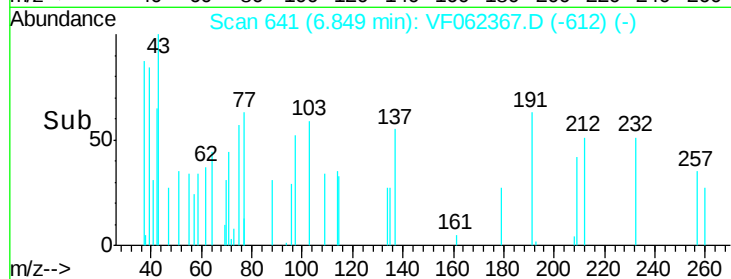
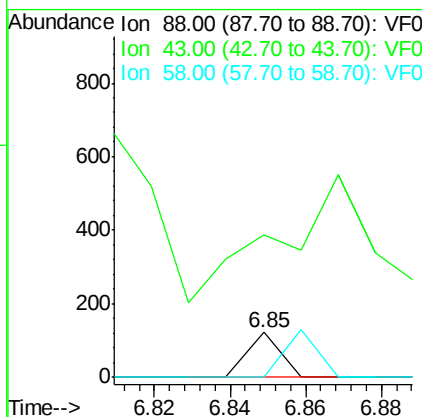
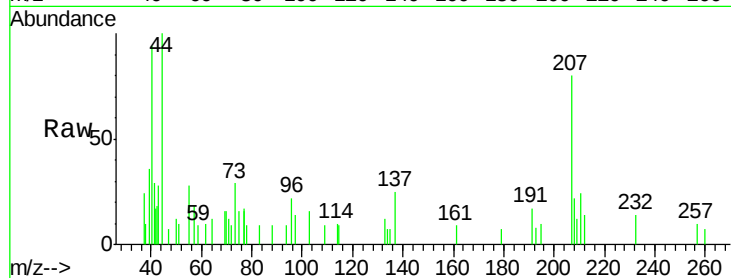




#49
1,4-Dioxane
Concen: Below Cal
RT: 6.85 min Scan# 641
Delta R.T. -0.02 min
Lab File: VF062367.D
Acq: 7 May 2019 19:45

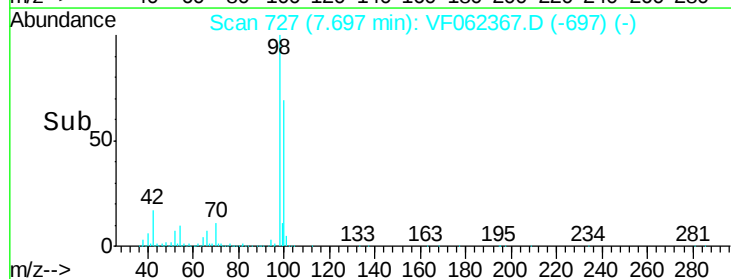
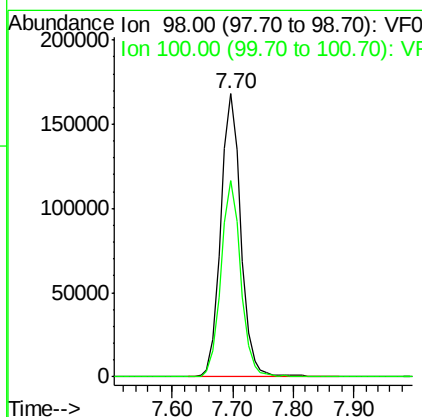
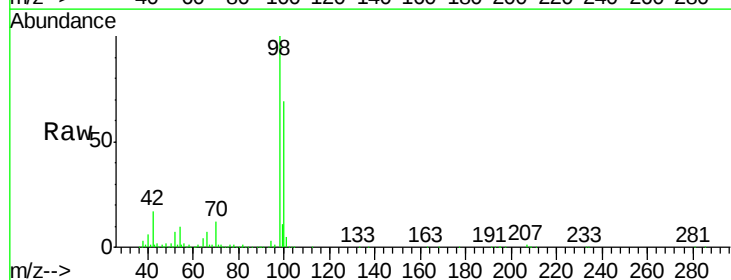
Instrument :
MSVOA_F
ClientSampled :
SB-1(35)

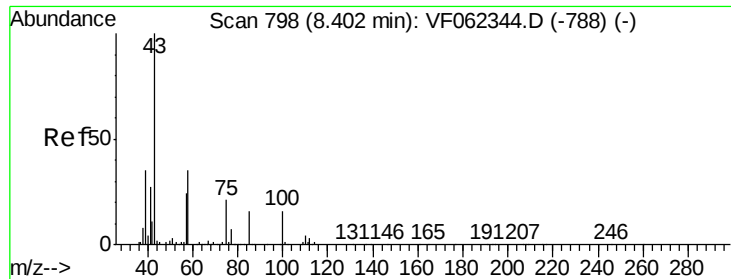
Tot Ion: 88 Resp: 72
Ion Ratio Lower Upper
88 100
43 844.4 55.6 83.4#
58 106.9 52.8 79.2#



#50
Toluene-d8
Concen: 39.460 ug/l
RT: 7.70 min Scan# 727
Delta R.T. -0.01 min
Lab File: VF062367.D
Acq: 7 May 2019 19:45

Tgt Ion: 98 Resp: 389106
Ion Ratio Lower Upper
98 100
100 67.9 53.3 79.9





#51

4-Methyl-2-Pentanone

Concen: 3.228 ug/l

RT: 8.41 min Scan# 799

Delta R.T. 0.00 min

Lab File: VF062367.D

Acq: 7 May 2019 19:45

Instrument :

MSVOA_F

ClientSampleId :

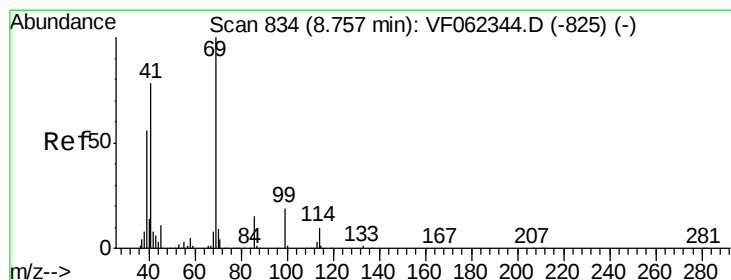
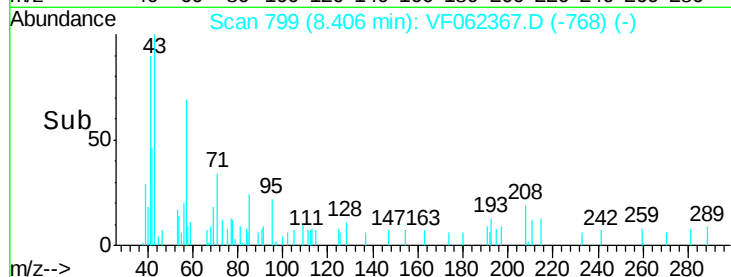
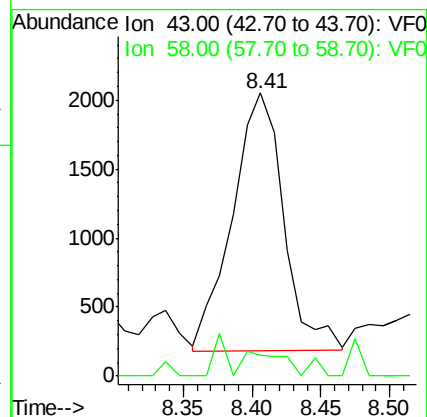
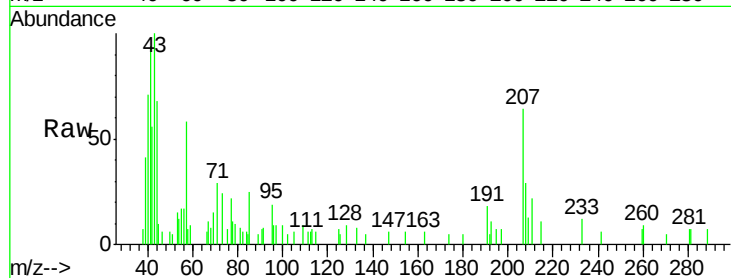
SB-1(35)

Tot Ion: 43 Resp: 4887

Ion Ratio Lower Upper

43 100

58 0.7 27.8 41.6#



#56

Ethyl methacrylate

Concen: 7.834 ug/l

RT: 8.75 min Scan# 834

Delta R.T. -0.01 min

Lab File: VF062367.D

Acq: 7 May 2019 19:45

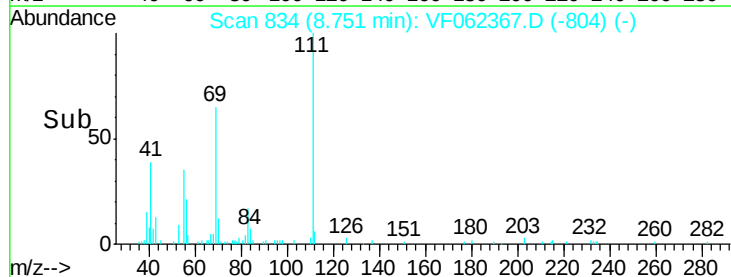
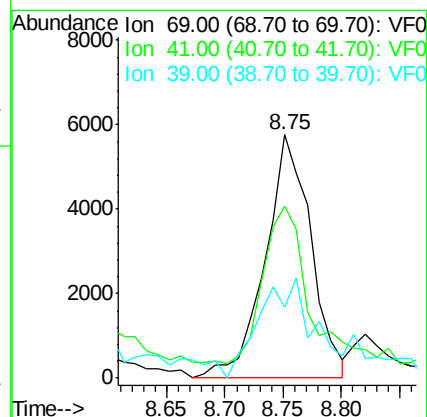
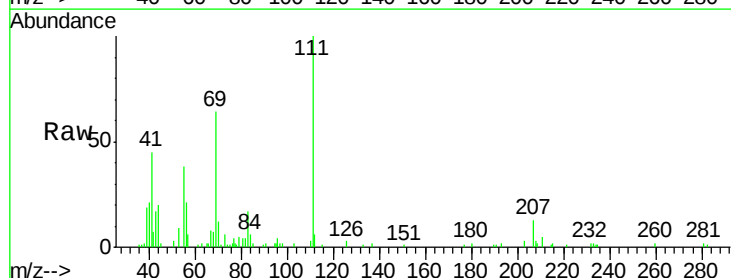
Tgt Ion: 69 Resp: 15664

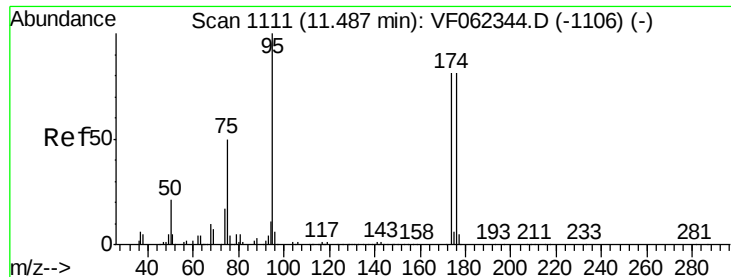
Ion Ratio Lower Upper

69 100

41 64.3 66.3 99.5#

39 48.9 50.1 75.1#





#62

4-Bromofluorobenzene

Concen: 37.505 ug/l

RT: 11.48 min Scan# 1111

Delta R.T. -0.01 min

Lab File: VF062367.D

Acq: 7 May 2019 19:45

Instrument :

MSVOA_F

ClientSampleId :

SB-1(35)

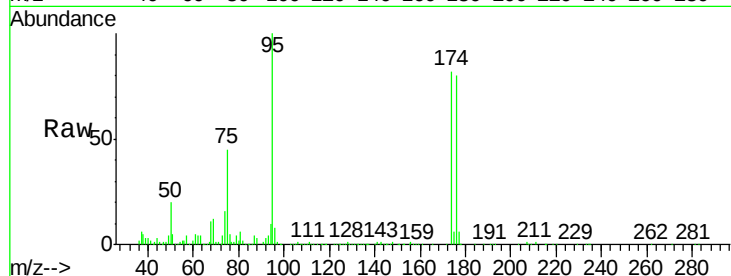
Tot Ion: 95 Resp: 166854

Ion Ratio Lower Upper

95 100

174 92.9 0.0 191.8

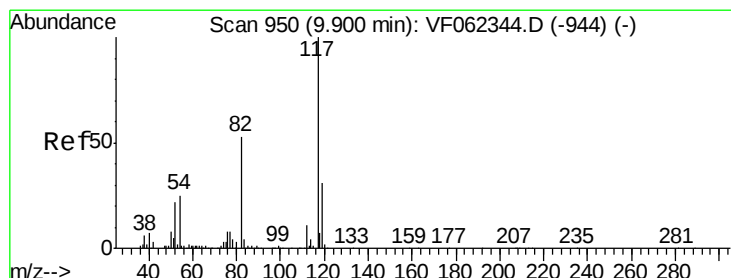
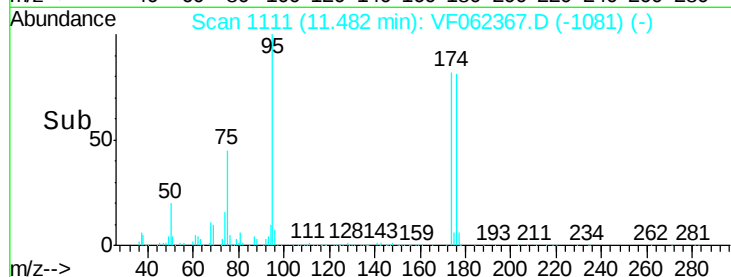
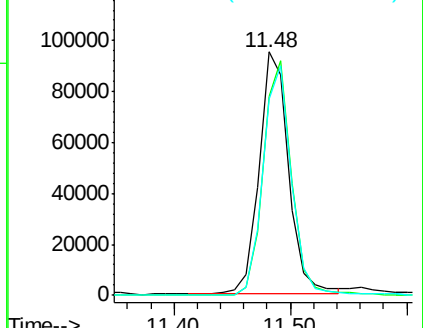
176 92.3 0.0 193.2



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: 9.89 min Scan# 950

Delta R.T. -0.01 min

Lab File: VF062367.D

Acq: 7 May 2019 19:45

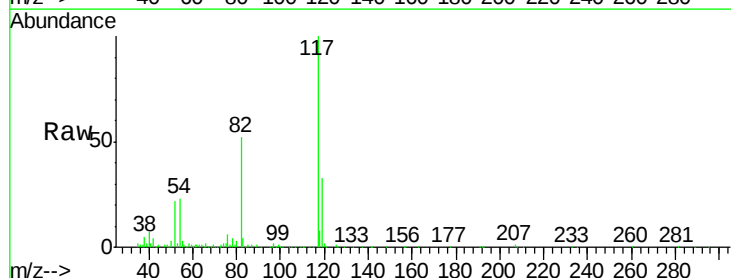
Tgt Ion: 117 Resp: 405477

Ion Ratio Lower Upper

117 100

82 51.9 42.2 63.2

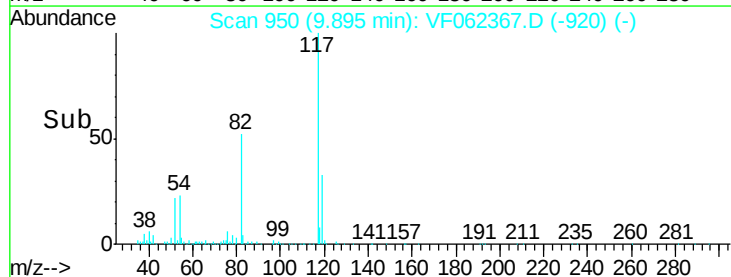
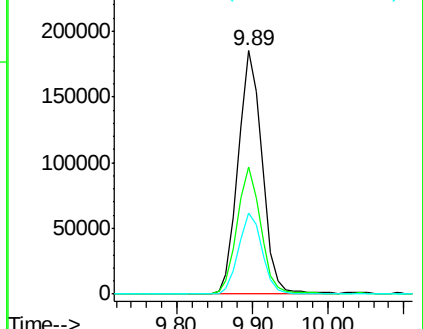
119 33.4 25.0 37.4

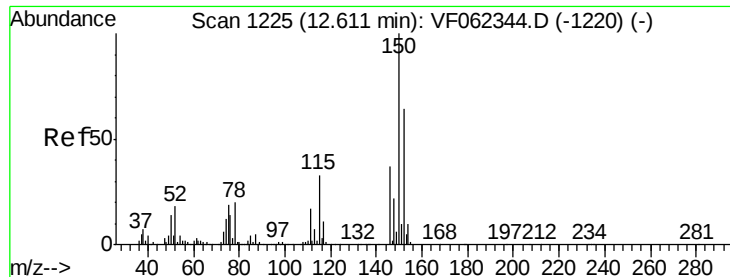


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 118.90 (118.60 to 119.60): V



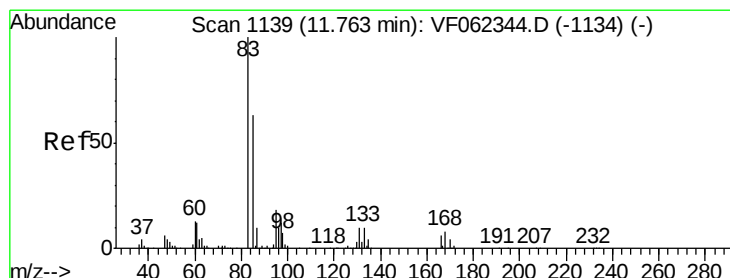
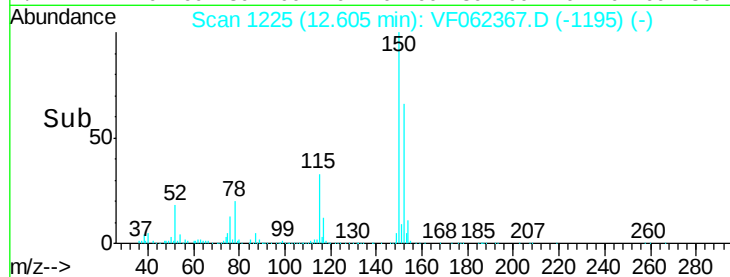
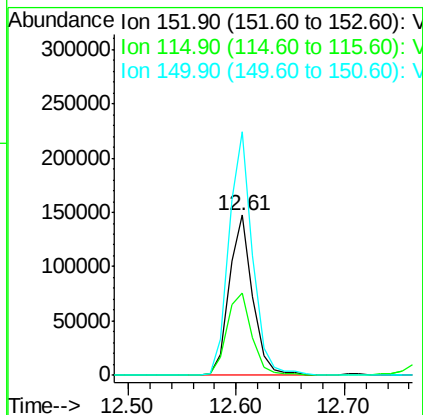
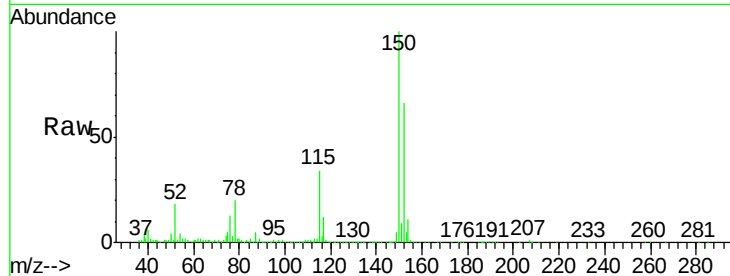


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.61 min Scan# 1225
Delta R.T. -0.01 min
Lab File: VF062367.D
Acq: 7 May 2019 19:45

Instrument :
MSVOA_F
ClientSampleId :
SB-1(35)

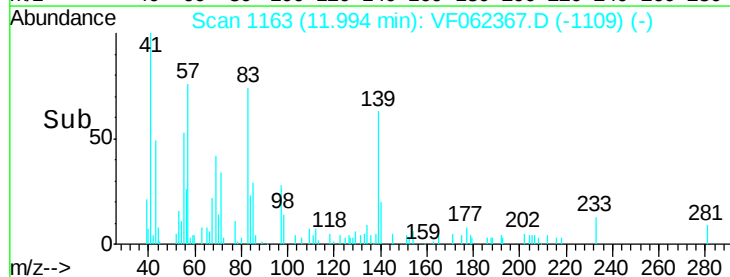
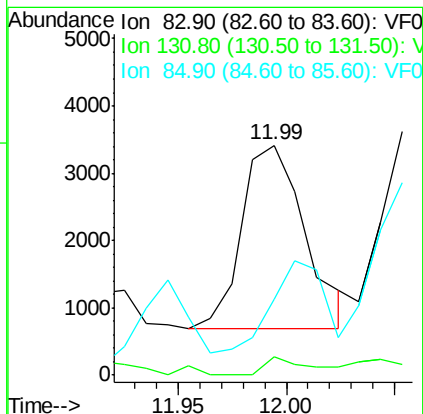
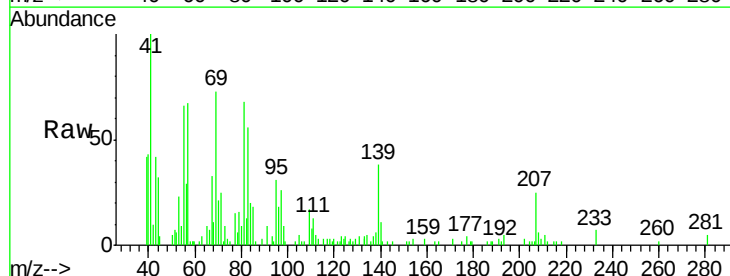
Tot Ion	Ratio	Lower	Upper
152	100		
115	54.7	26.4	79.2
150	154.3	0.0	335.0

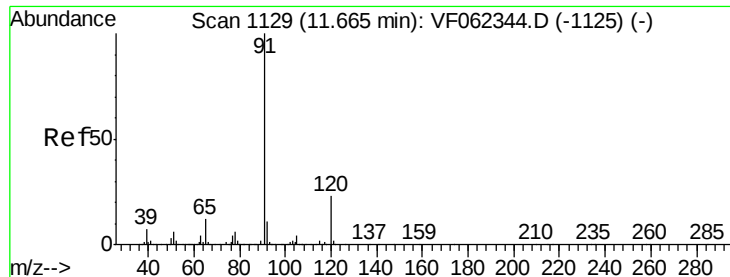


#75

1,1,2,2-Tetrachloroethane
Concen: 2.724 ug/l
RT: 11.99 min Scan# 1163
Delta R.T. 0.23 min
Lab File: VF062367.D
Acq: 7 May 2019 19:45

Tgt Ion	Ratio	Lower	Upper
83	100		
131	5.8	5.8	17.4
85	38.1	35.3	105.7





#78

n-propylbenzene

Concen: 1.525 ug/l

RT: 11.66 min Scan# 1129

Delta R.T. -0.01 min

Lab File: VF062367.D

Acq: 7 May 2019 19:45

Instrument :

MSVOA_F

ClientSampleId :

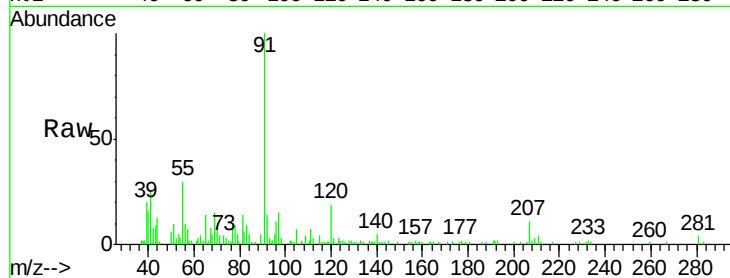
SB-1(35)

Tot Ion: 91 Resp: 21312

Ion Ratio Lower Upper

91 100

120 20.9 11.9 35.5



Abundance Ion 91.00 (90.70 to 91.70): VF062344.D (-1125) (-)

Ion 120.00 (119.70 to 120.70): VF062344.D (-1125) (-)

11.66

15000

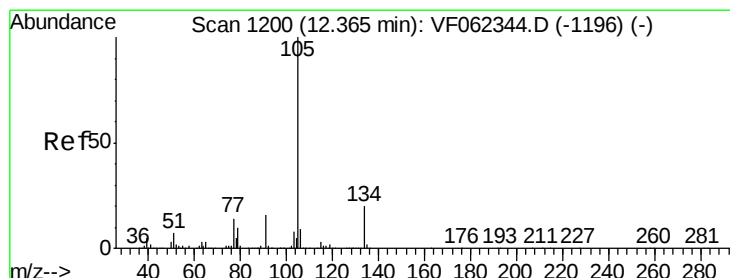
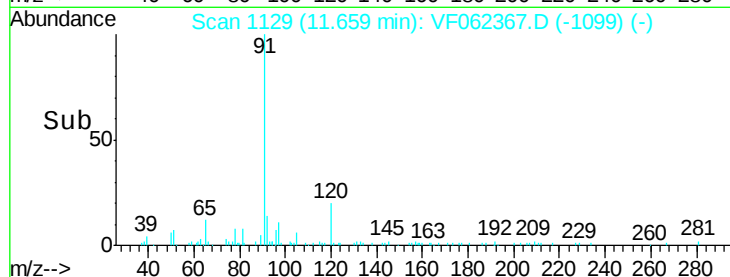
10000

5000

0

Time-->

11.60 11.70



#85

sec-Butylbenzene

Concen: 1.983 ug/l

RT: 12.36 min Scan# 1200

Delta R.T. -0.01 min

Lab File: VF062367.D

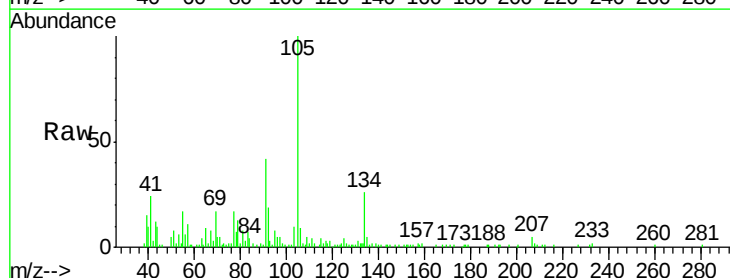
Acq: 7 May 2019 19:45

Tgt Ion: 105 Resp: 29200

Ion Ratio Lower Upper

105 100

134 28.6 9.8 29.5



Abundance Ion 105.00 (104.70 to 105.70): VF062344.D (-1196) (-)

Ion 134.00 (133.70 to 134.70): VF062344.D (-1196) (-)

12.36

20000

15000

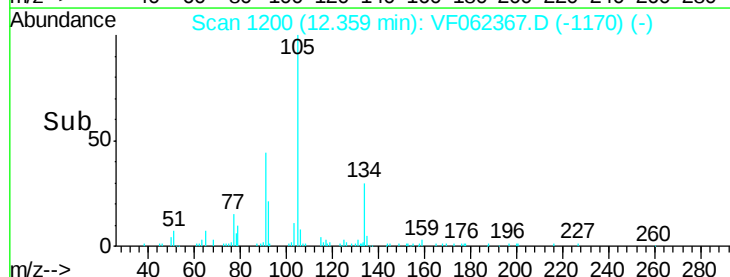
10000

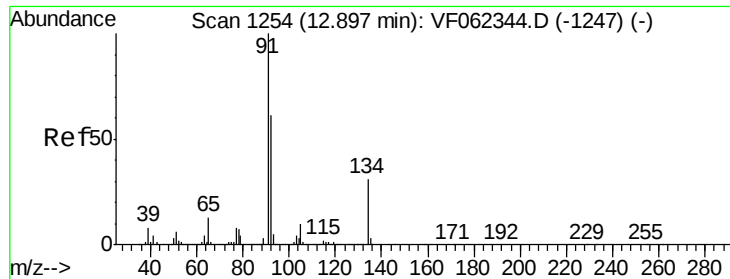
5000

0

Time-->

12.30 12.40





#89

n-Butylbenzene

Concen: 1.535 ug/l

RT: 12.89 min Scan# 1254

Delta R.T. -0.01 min

Lab File: VF062367.D

Acq: 7 May 2019 19:45

Instrument :

MSVOA_F

ClientSampleId :

SB-1(35)

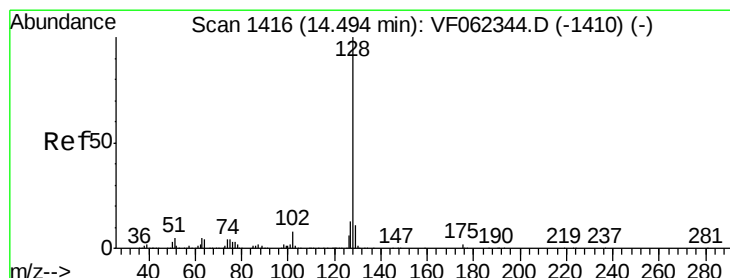
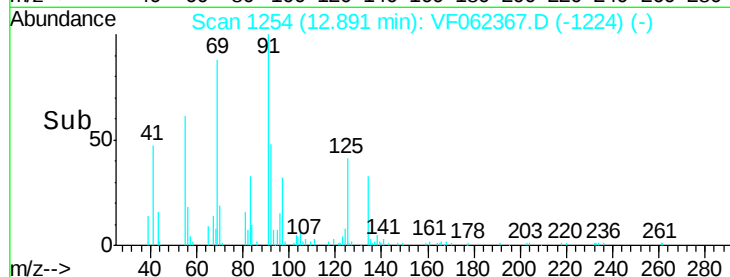
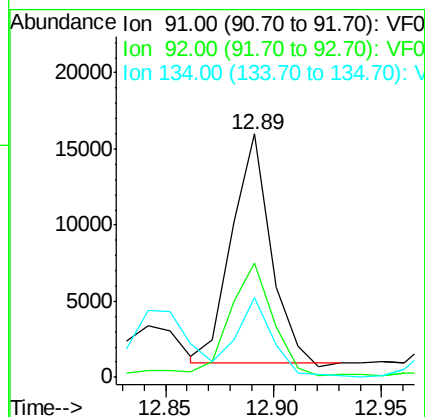
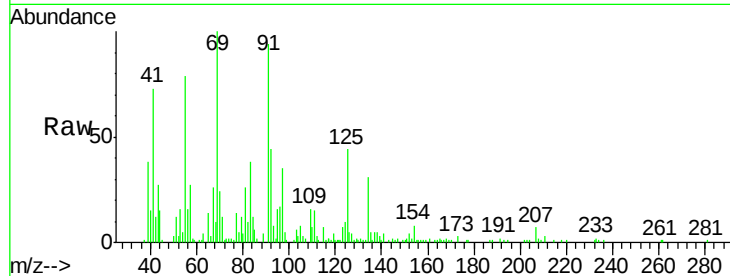
Tot Ion: 91 Resp: 18683

Ion Ratio Lower Upper

91 100

92 57.0 30.0 90.0

134 33.2 14.1 42.4



#95

Naphthalene

Concen: 11.716 ug/l

RT: 14.49 min Scan# 1416

Delta R.T. -0.01 min

Lab File: VF062367.D

Acq: 7 May 2019 19:45

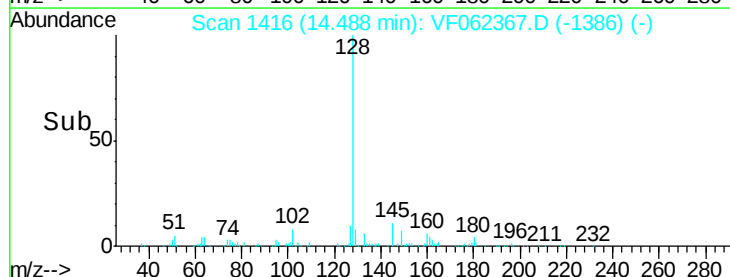
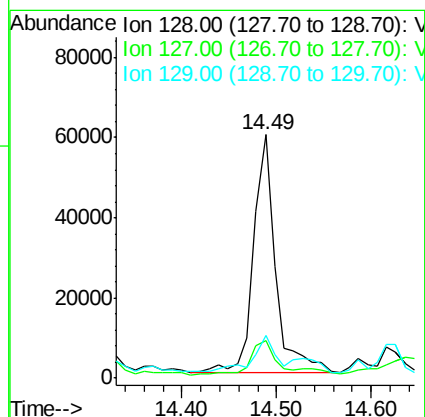
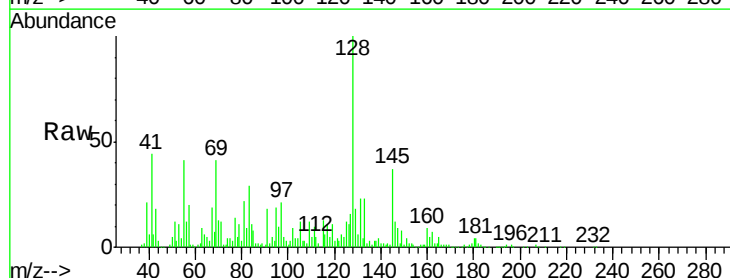
Tgt Ion: 128 Resp: 96247

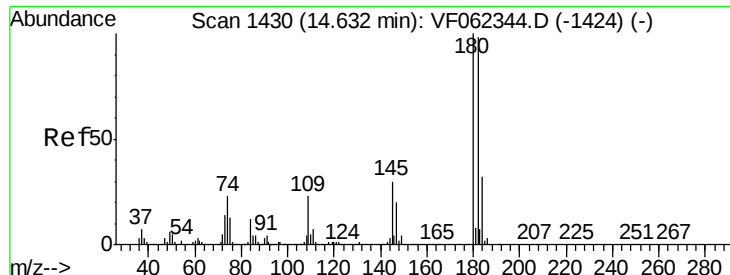
Ion Ratio Lower Upper

128 100

127 15.1 10.5 15.7

129 14.9 8.6 12.8#





#96

1,2,3-Trichlorobenzene

Concen: 1.675 ug/l

RT: 14.67 min Scan# 1434

Delta R.T. 0.03 min

Lab File: VF062367.D

Acq: 7 May 2019 19:45

Instrument :

MSVOA_F

ClientSampleId :

SB-1(35)

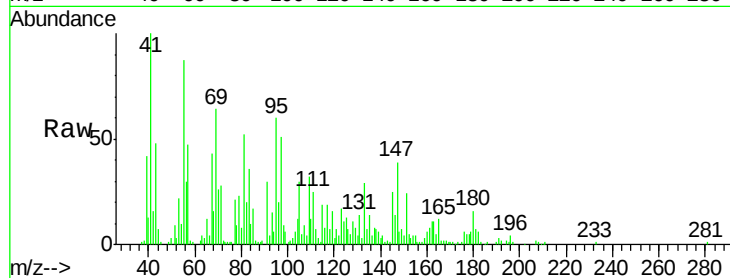
Tot Ion:180 Resp: 8868

Ion Ratio Lower Upper

180 100

182 83.1 49.4 148.0

145 82.0 14.8 44.3#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

