

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051119\
 Data File : VF062462.D
 Acq On : 11 May 2019 16:12
 Operator : FY/SY
 Sample : K2729-02RE
 Misc : 6.44g/5mL/MSVOA F/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: May 12 03:47:22 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	5.05	168	320496	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.78	114	426393	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.91	117	351651	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.61	152	189490	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.03	65	145988	48.20	ug/l	0.01
Spiked Amount			Recovery	=	96.40%	
35) Dibromofluoromethane	4.31	113	163181	48.04	ug/l	0.01
Spiked Amount			Recovery	=	96.08%	
50) Toluene-d8	7.71	98	337798	41.08	ug/l	0.01
Spiked Amount			Recovery	=	82.16%	
62) 4-Bromofluorobenzene	11.50	95	146065	39.37	ug/l	0.01
Spiked Amount			Recovery	=	78.74%	

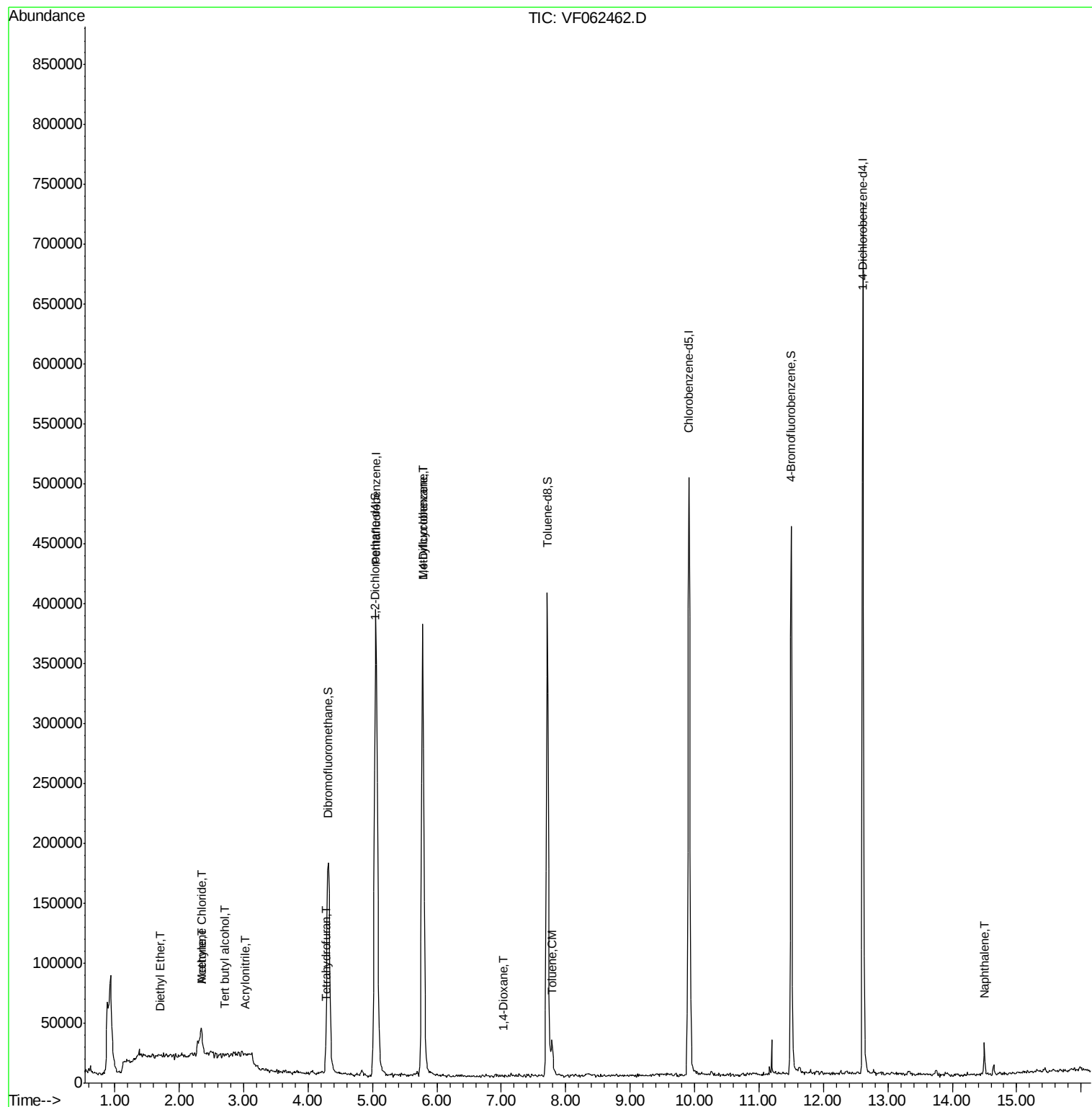
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.41	94	500	Below Cal	#	3
8) Diethyl Ether	1.70	74	1149	1.500	ug/l	97
11) Tert butyl alcohol	2.72	59	345	2.015	ug/l #	70
13) Acrolein	2.07	56	698	Below Cal	#	50
15) Acrylonitrile	3.03	53	512	1.579	ug/l #	1
16) Acetone	2.35	43	9982	16.292	ug/l	98
18) Methyl Acetate	2.49	43	1993	Below Cal	#	58
20) Methylene Chloride	2.33	84	17733	7.999	ug/l #	88
29) Tetrahydrofuran	4.26	42	795	2.247	ug/l #	36
37) Ethyl Acetate	4.35	43	602	Below Cal	#	73
38) Carbon Tetrachloride	4.18	117	70	Below Cal	#	1
39) Methylcyclohexane	5.77	83	6395	1.741	ug/l #	50
49) 1,4-Dioxane	7.03	88	173	1.236	ug/l #	37
52) Toluene	7.78	92	12840	2.580	ug/l	98
95) Naphthalene	14.50	128	16295	2.319	ug/l	97

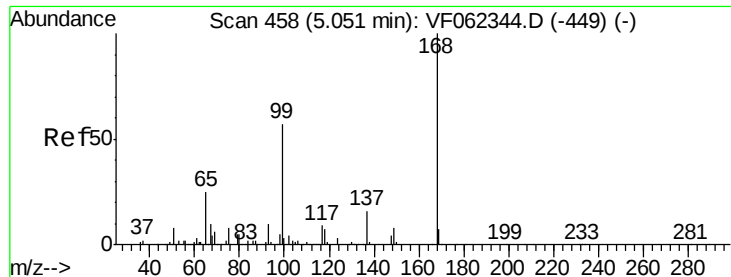
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 459

Delta R.T. 0.00 min

Lab File: VF062462.D

Acq: 11 May 2019 16:12

Instrument :

MSVOA_F

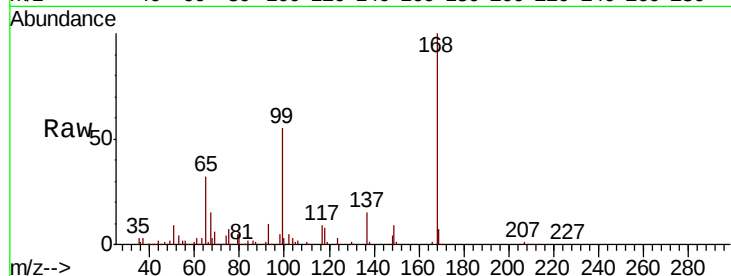
ClientSampleId :

Tot Ion:168 Resp: 320496

Ion Ratio Lower Upper

168 100

99 55.2 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.05

120000

100000

80000

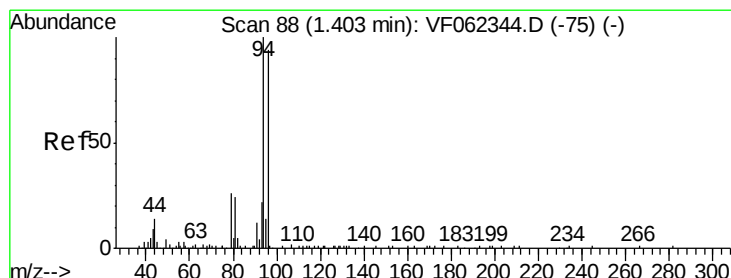
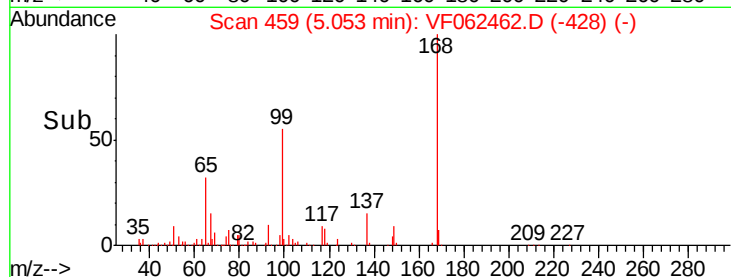
60000

40000

20000

0

Time--> 4.90 5.00 5.10 5.20



#5

Bromomethane

Concen: Below Cal

RT: 1.41 min Scan# 89

Delta R.T. 0.00 min

Lab File: VF062462.D

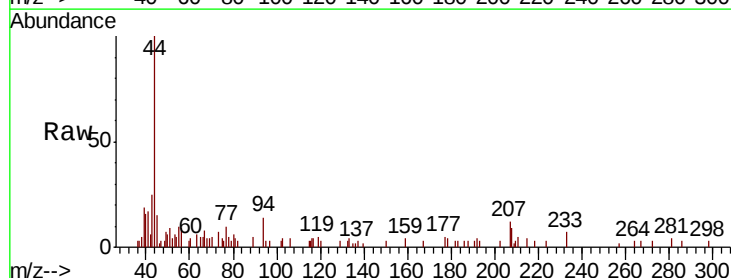
Acq: 11 May 2019 16:12

Tgt Ion: 94 Resp: 500

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

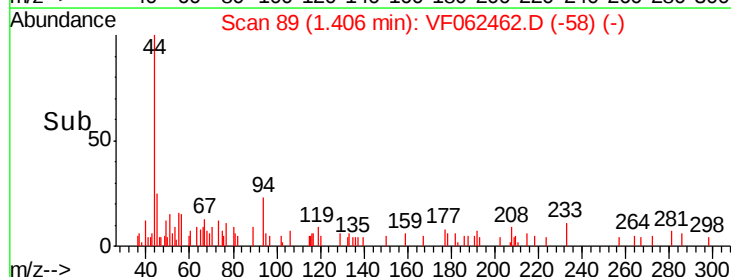
600

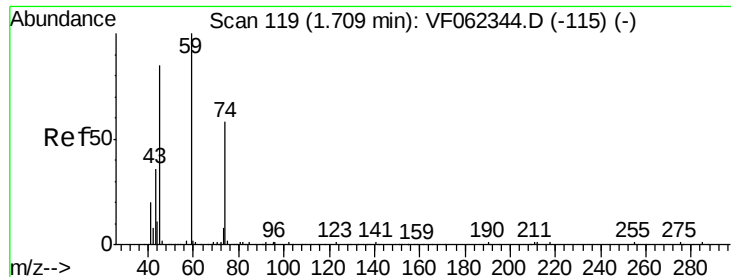
400

200

0

Time--> 1.40 1.45





#8

Diethyl Ether

Concen: 1.500 ug/l

RT: 1.70 min Scan# 119

Delta R.T. -0.01 min

Lab File: VF062462.D

Acq: 11 May 2019 16:12

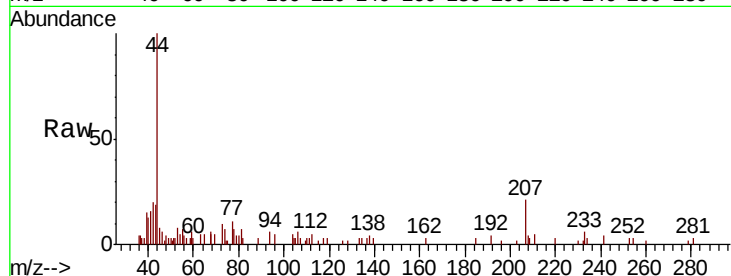
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 74 Resp: 1149

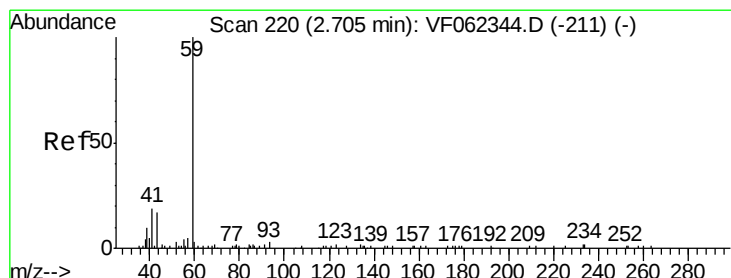
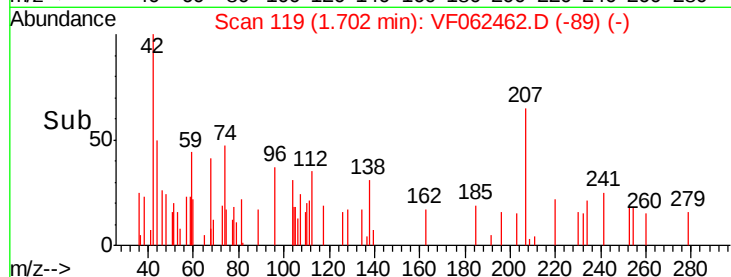
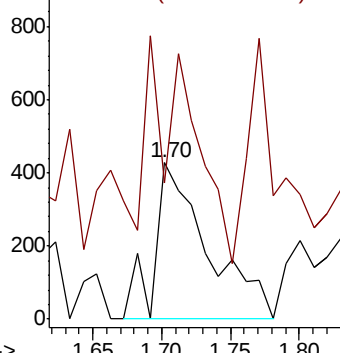
Ion Ratio Lower Upper

74 100

45 143.6 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: 2.015 ug/l

RT: 2.72 min Scan# 222

Delta R.T. 0.01 min

Lab File: VF062462.D

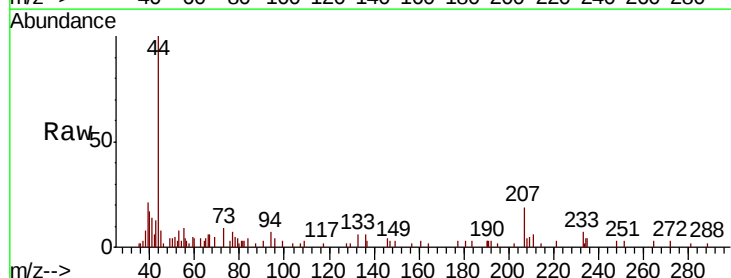
Acq: 11 May 2019 16:12

Tgt Ion: 59 Resp: 345

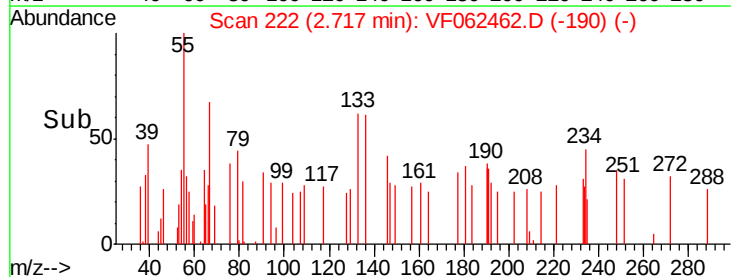
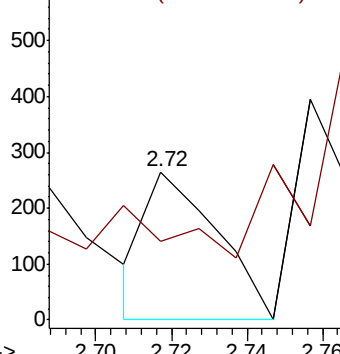
Ion Ratio Lower Upper

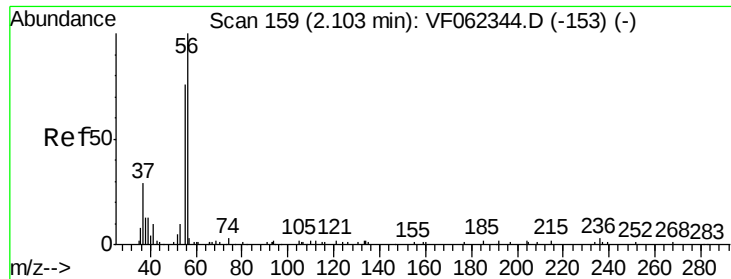
59 100

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

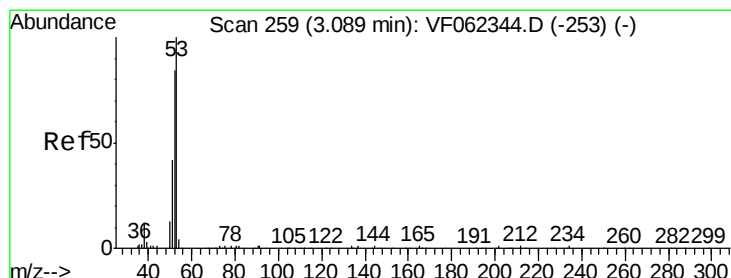
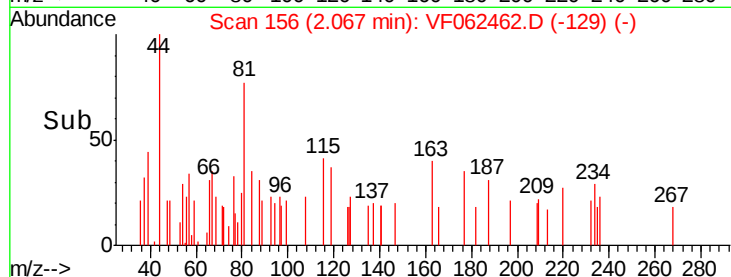
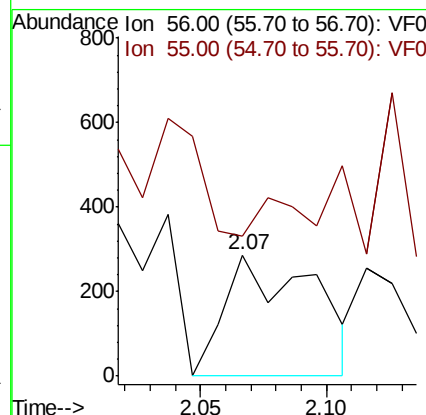
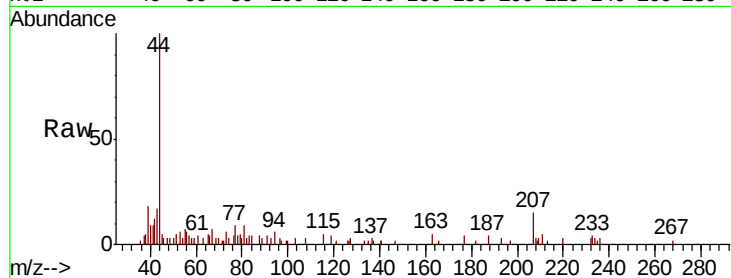




#13
Acrolein
Concen: Below Cal
RT: 2.07 min Scan# 156
Delta R.T. -0.04 min
Lab File: VF062462.D
Acq: 11 May 2019 16:12

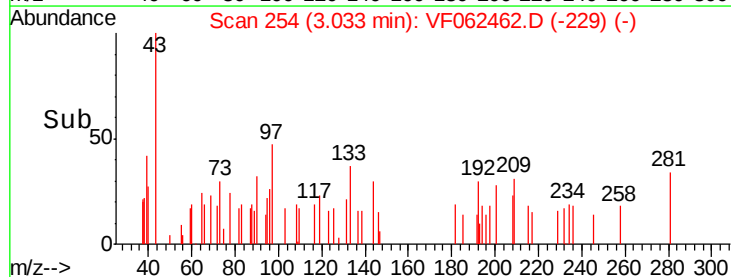
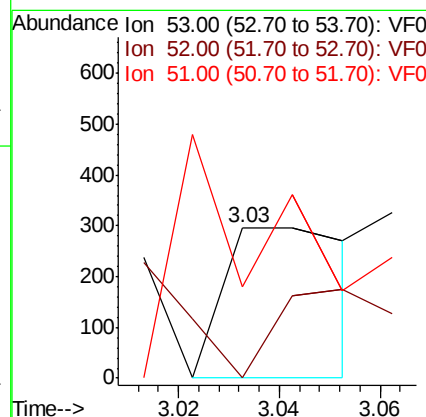
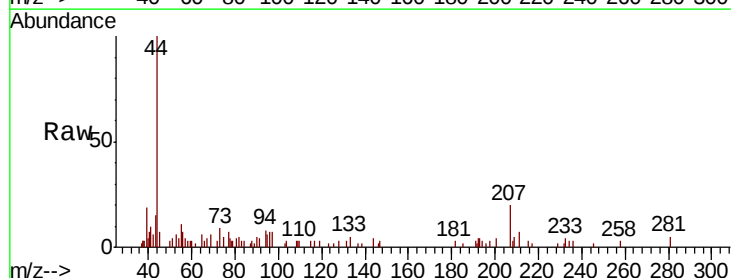
Instrument :
MSVOA_F
ClientSampleId :

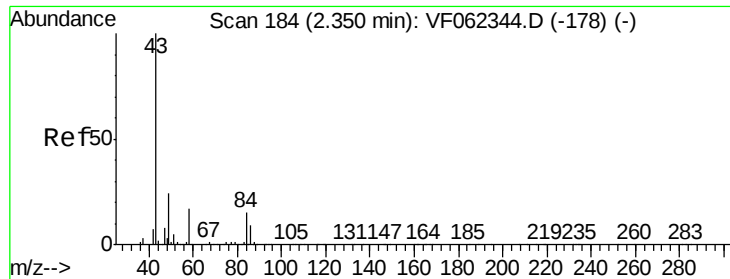
Tot Ion: 56 Resp: 698
Ion Ratio Lower Upper
56 100
55 31.4 58.4 87.6#



#15
Acrylonitrile
Concen: 1.579 ug/l
RT: 3.03 min Scan# 254
Delta R.T. -0.06 min
Lab File: VF062462.D
Acq: 11 May 2019 16:12

Tgt Ion: 53 Resp: 512
Ion Ratio Lower Upper
53 100
52 150.6 77.2 115.8#
51 192.6 40.6 61.0#





#16

Acetone

Concen: 16.292 ug/l

RT: 2.35 min Scan# 185

Delta R.T. 0.00 min

Lab File: VF062462.D

Acq: 11 May 2019 16:12

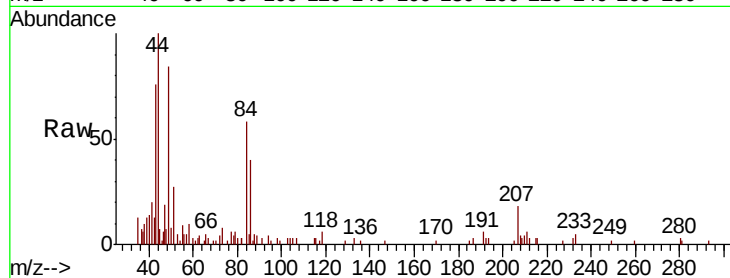
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 9982

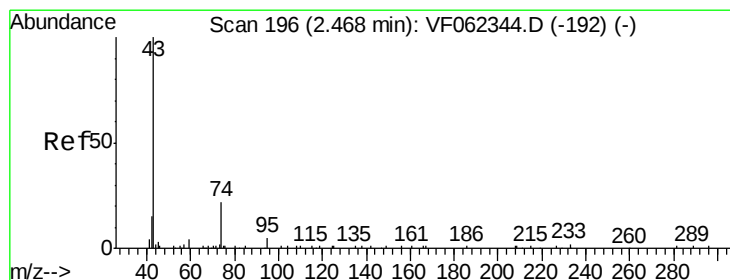
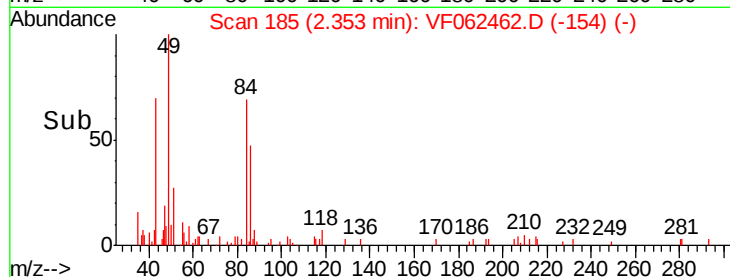
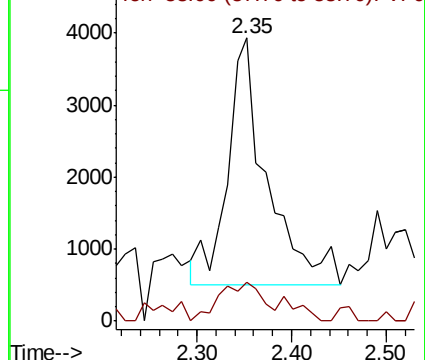
Ion Ratio Lower Upper

43 100

58 15.6 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: 2.49 min Scan# 199

Delta R.T. 0.02 min

Lab File: VF062462.D

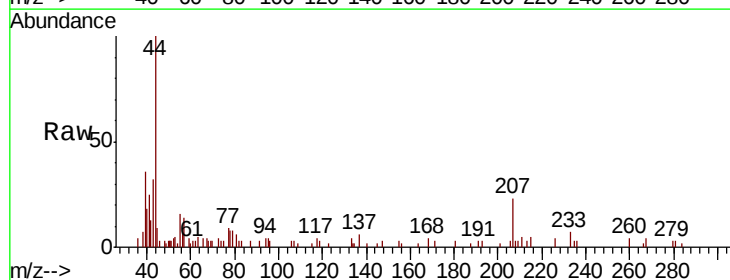
Acq: 11 May 2019 16:12

Tgt Ion: 43 Resp: 1993

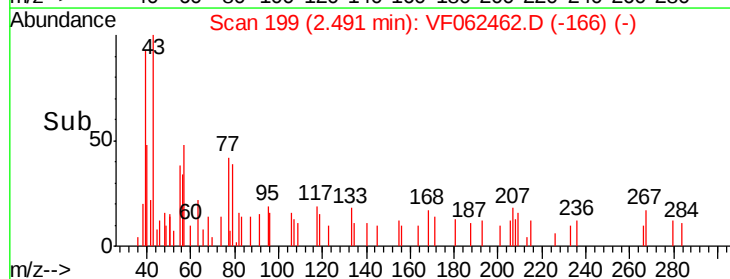
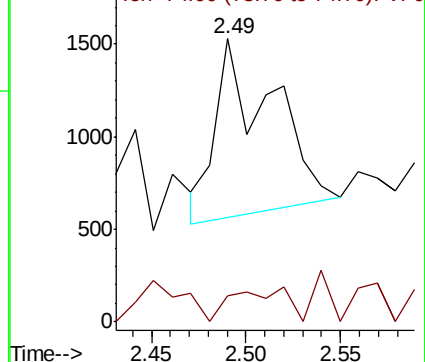
Ion Ratio Lower Upper

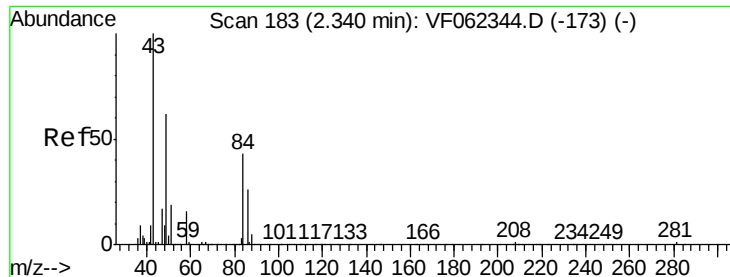
43 100

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

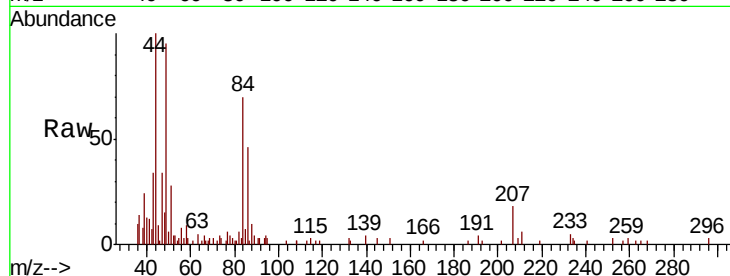




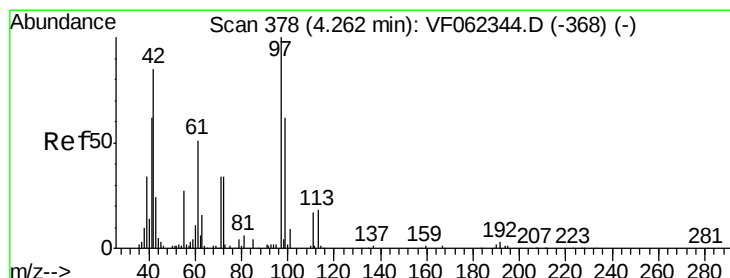
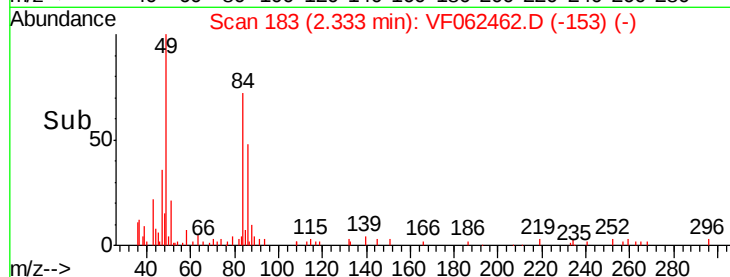
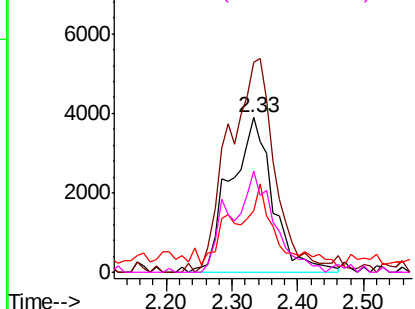
#20
Methvlene Chloride
Concen: 7.999 ug/l
RT: 2.33 min Scan# 183
Delta R.T. -0.01 min
Lab File: VF062462.D
Acq: 11 May 2019 16:12

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 84 Resp: 17733
Ion Ratio Lower Upper
84 100
49 129.9 117.5 176.3
51 36.3 37.0 55.4#
86 65.9 49.3 73.9

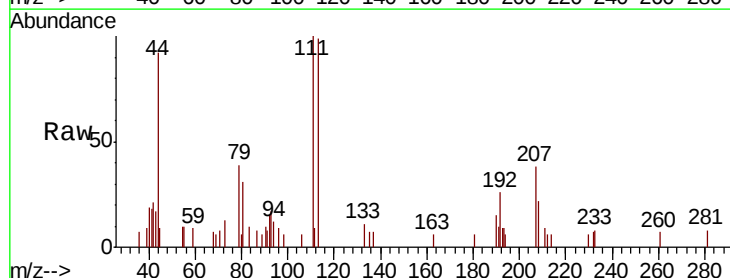


Abundance Ion 83.90 (83.60 to 84.60): VF0
Ion 48.90 (48.60 to 49.60): VF0
Ion 50.90 (50.60 to 51.60): VF0
Ion 85.90 (85.60 to 86.60): VF0

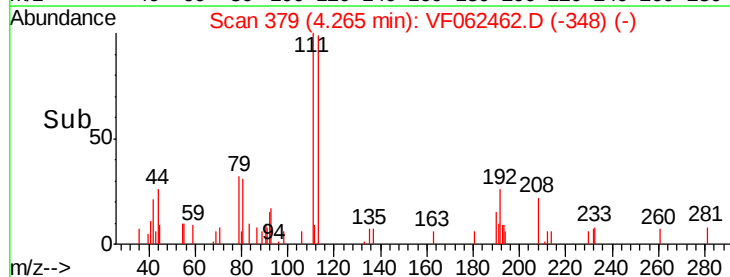
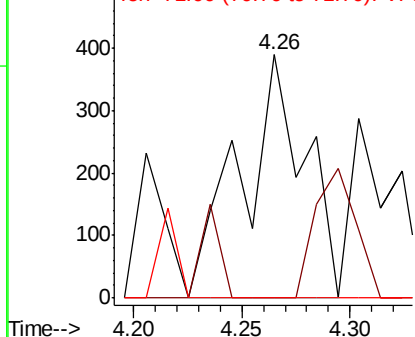


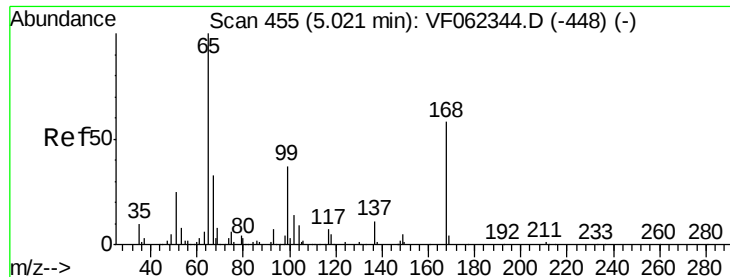
#29
Tetrahydrofuran
Concen: 2.247 ug/l
RT: 4.26 min Scan# 379
Delta R.T. 0.00 min
Lab File: VF062462.D
Acq: 11 May 2019 16:12

Tgt Ion: 42 Resp: 795
Ion Ratio Lower Upper
42 100
72 0.0 31.4 47.0#
71 0.0 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

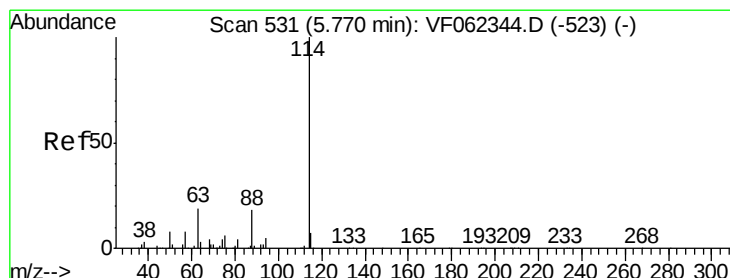
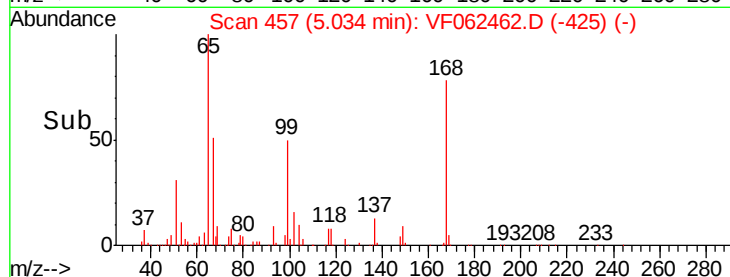
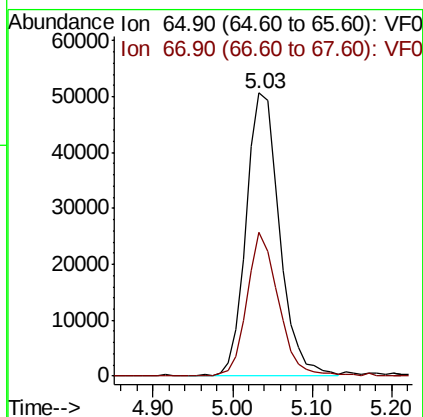
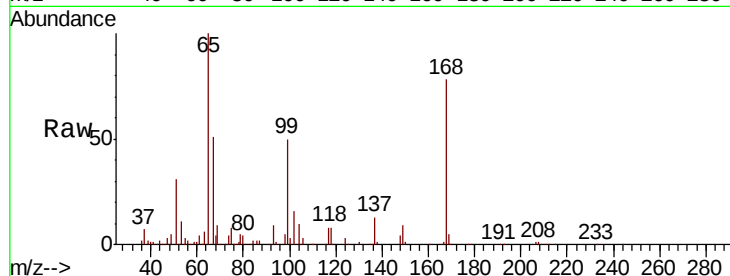




#33
 1,2-Dichloroethane-d4
 Concen: 48.200 ug/l
 RT: 5.03 min Scan# 457
 Delta R.T. 0.01 min
 Lab File: VF062462.D
 Acq: 11 May 2019 16:12

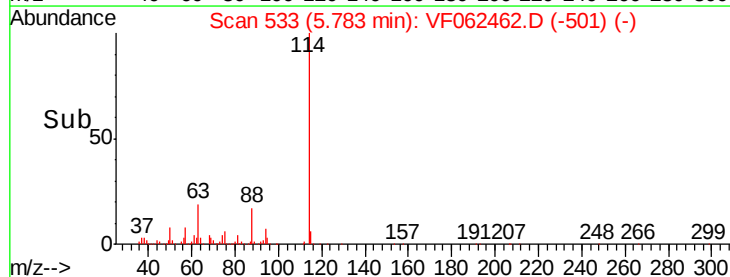
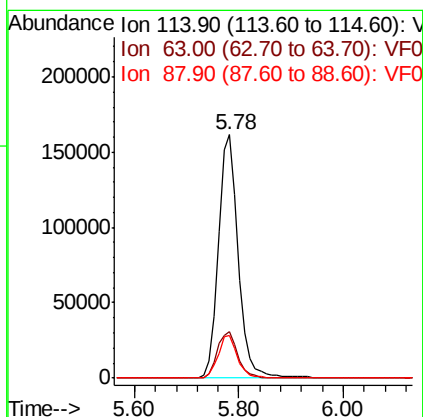
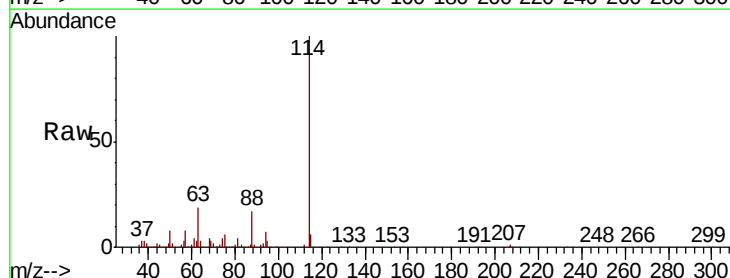
Instrument :
 MSVOA_F
 ClientSampleId :

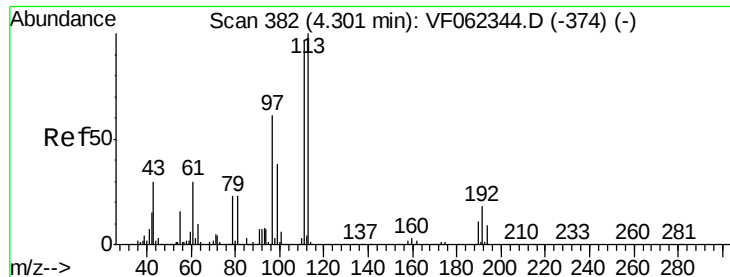
Tot Ion: 65 Resp: 145988
 Ion Ratio Lower Upper
 65 100
 67 48.0 0.0 85.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.78 min Scan# 533
 Delta R.T. 0.01 min
 Lab File: VF062462.D
 Acq: 11 May 2019 16:12

Tgt Ion: 114 Resp: 426393
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 37.4
 88 17.5 0.0 36.4

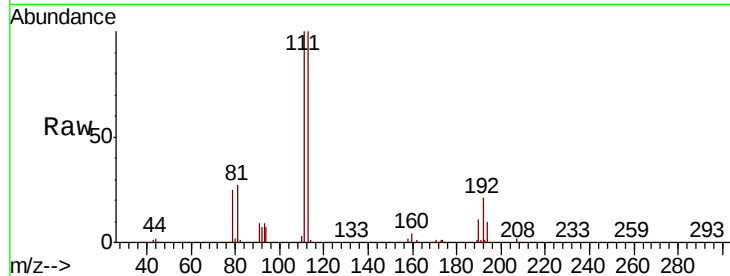




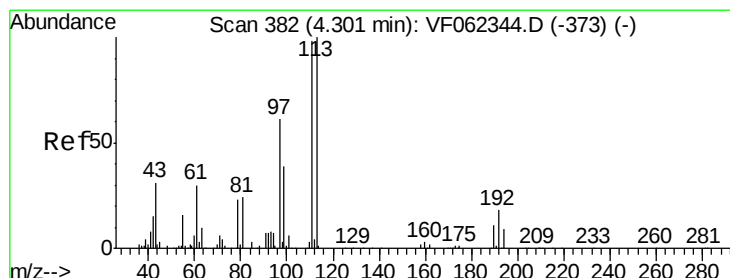
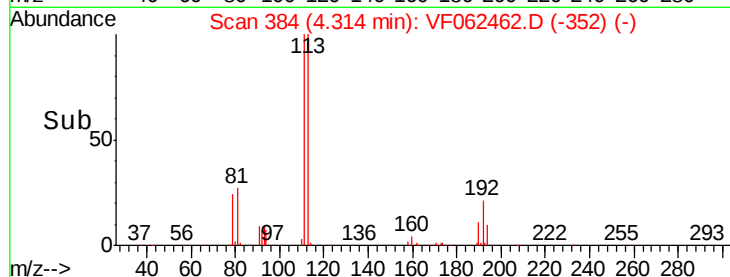
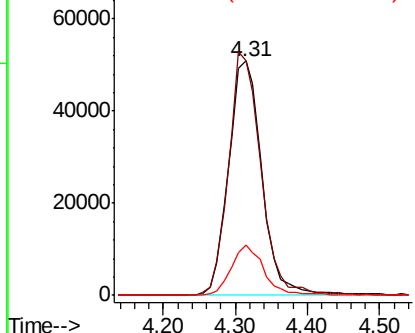
#35
Dibromofluoromethane
Concen: 48.037 ug/l
RT: 4.31 min Scan# 384
Delta R.T. 0.01 min
Lab File: VF062462.D
Acq: 11 May 2019 16:12

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:113 Resp: 163181
Ion Ratio Lower Upper
113 100
111 101.9 79.4 119.0
192 20.8 16.0 24.0

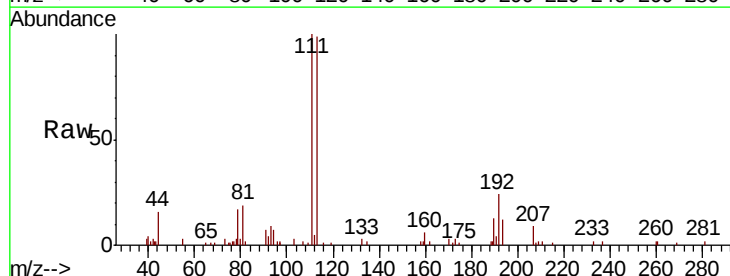


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

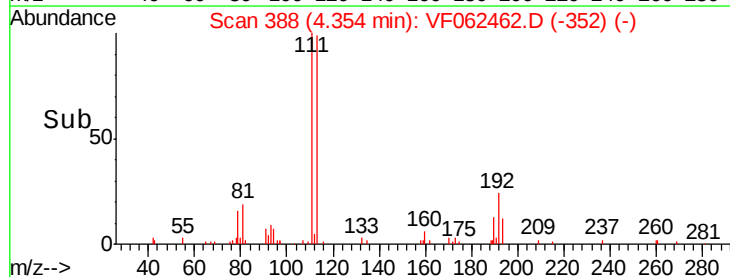
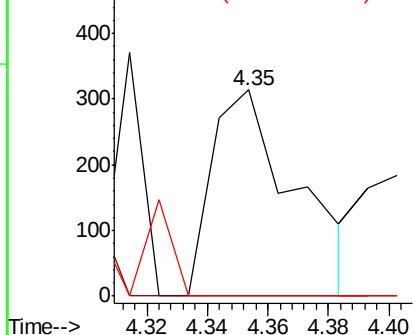


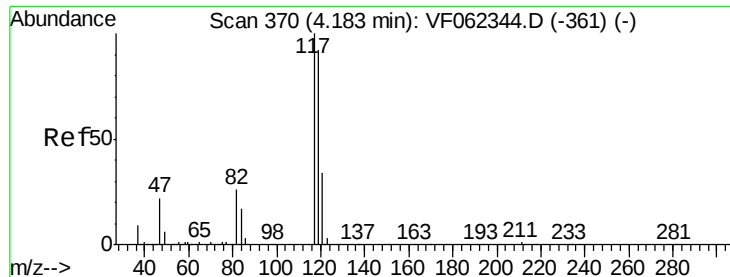
#37
Ethyl Acetate
Concen: Below Cal
RT: 4.35 min Scan# 388
Delta R.T. 0.05 min
Lab File: VF062462.D
Acq: 11 May 2019 16:12

Tgt Ion: 43 Resp: 602
Ion Ratio Lower Upper
43 100
61 0.0 0.0 0.0
70 0.0 8.2 12.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 60.90 (60.60 to 61.60): VF0
Ion 70.00 (69.70 to 70.70): VF0





#38

Carbon Tetrachloride

Concen: Below Cal

RT: 4.18 min Scan# 370

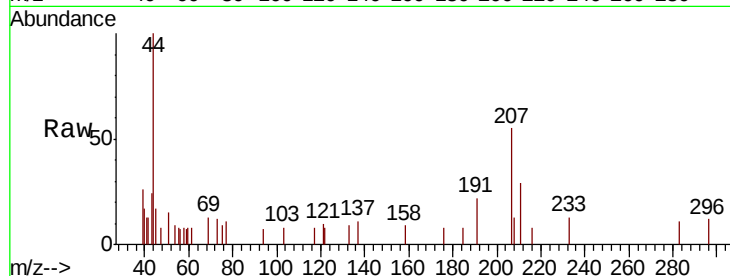
Delta R.T. -0.01 min

Lab File: VF062462.D

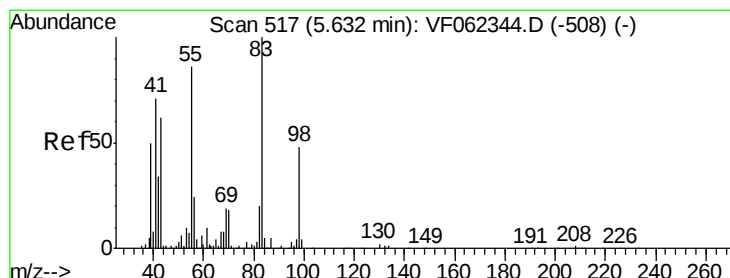
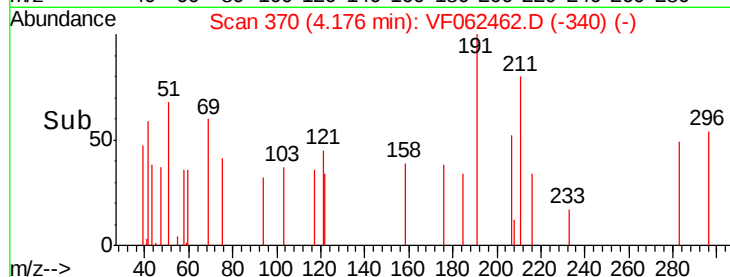
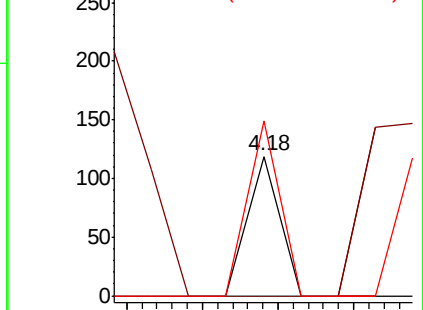
Acq: 11 May 2019 16:12

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:117	Resp:	70
Ion	Ratio	Lower Upper
117	100	
119	0.0	73.4 110.2#
121	125.2	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: 1.741 ug/l

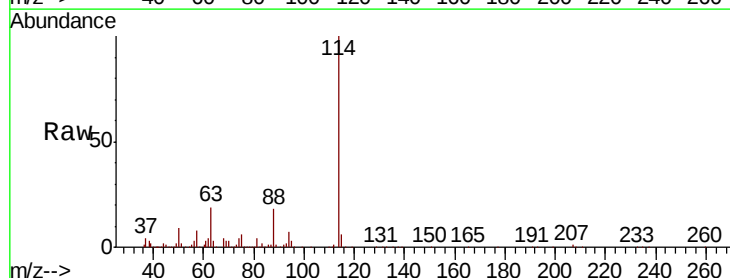
RT: 5.77 min Scan# 532

Delta R.T. 0.14 min

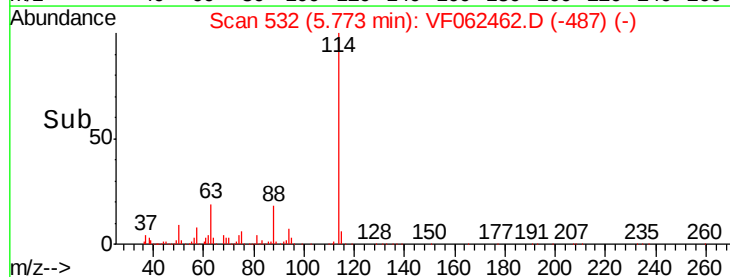
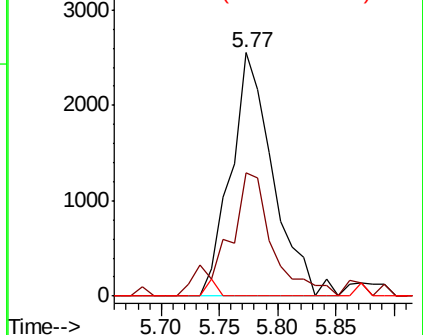
Lab File: VF062462.D

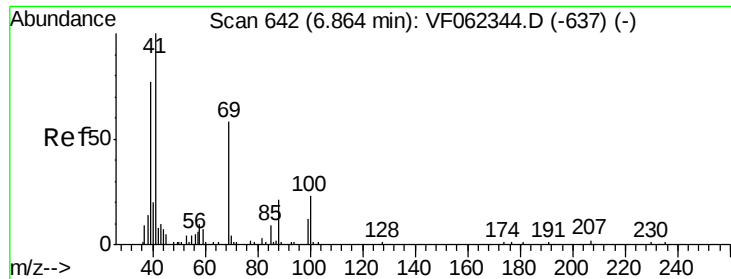
Acq: 11 May 2019 16:12

Tgt Ion: 83	Resp:	6395
Ion	Ratio	Lower Upper
83	100	
55	50.7	69.0 103.6#
98	0.0	38.6 58.0#



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 98.00 (97.70 to 98.70): VF0

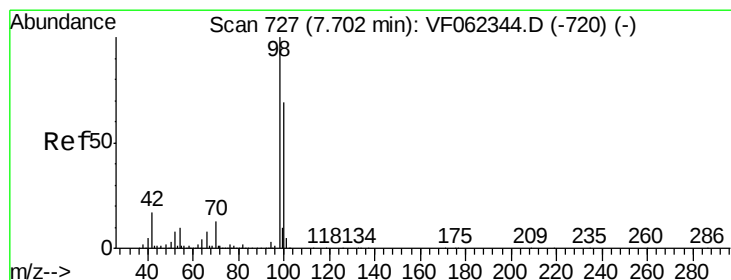
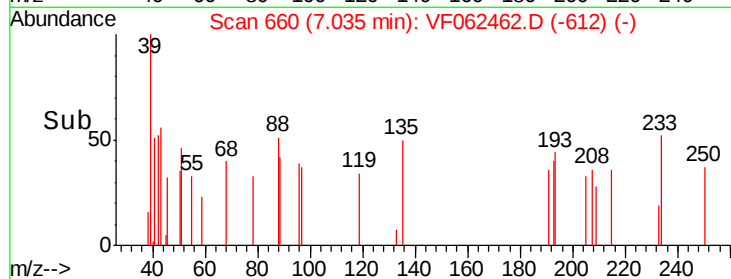
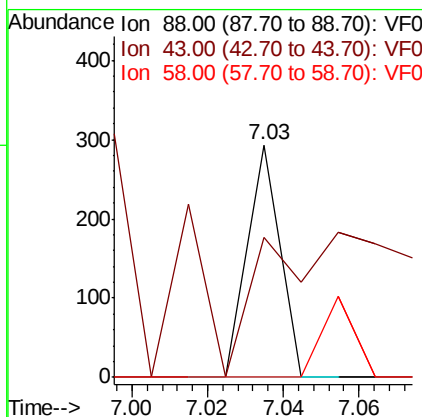
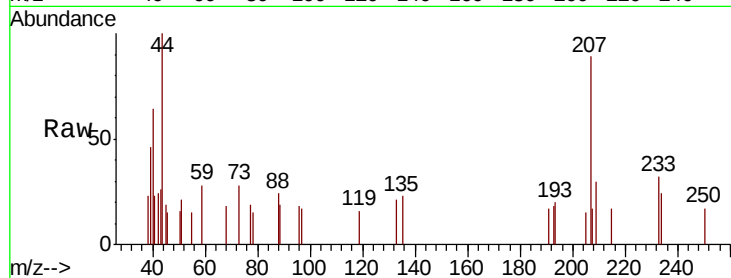




#49
1,4-Dioxane
Concen: 1.236 ug/l
RT: 7.03 min Scan# 660
Delta R.T. 0.17 min
Lab File: VF062462.D
Acq: 11 May 2019 16:12

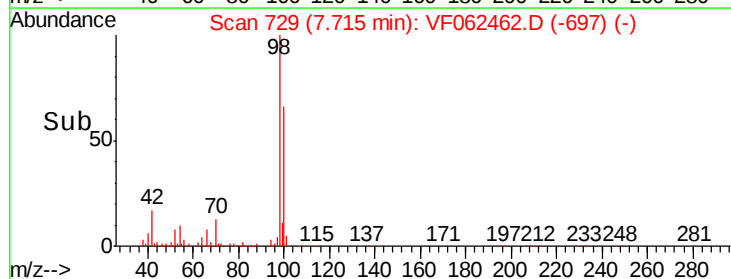
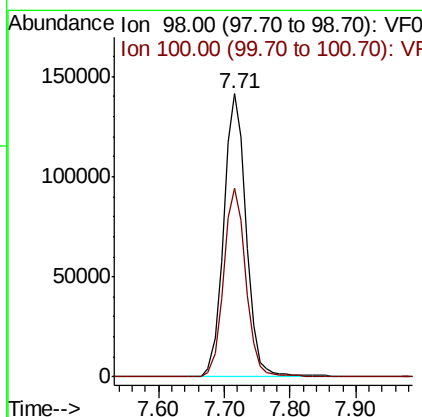
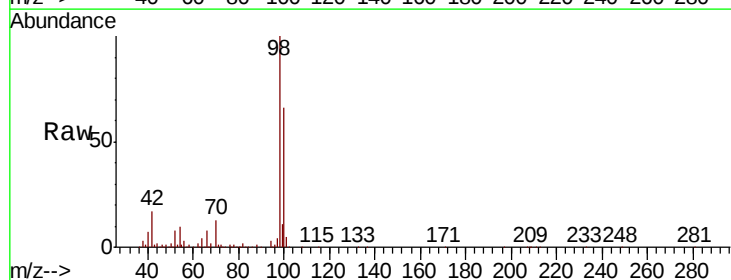
Instrument :
MSVOA_F
ClientSampleId :

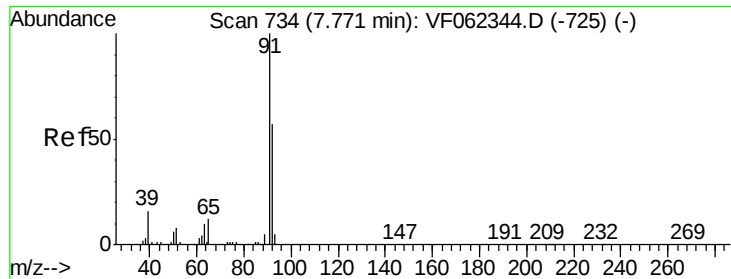
Tot Ion: 88 Resp: 173
Ion Ratio Lower Upper
88 100
43 0.0 55.6 83.4#
58 34.7 52.8 79.2#



#50
Toluene-d8
Concen: 41.080 ug/l
RT: 7.71 min Scan# 729
Delta R.T. 0.01 min
Lab File: VF062462.D
Acq: 11 May 2019 16:12

Tgt Ion: 98 Resp: 337798
Ion Ratio Lower Upper
98 100
100 66.0 53.3 79.9





#52

Toluene

Concen: 2.580 ug/l

RT: 7.78 min Scan# 736

Delta R.T. 0.01 min

Lab File: VF062462.D

Acq: 11 May 2019 16:12

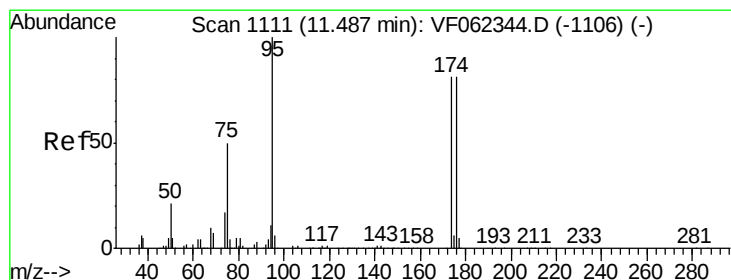
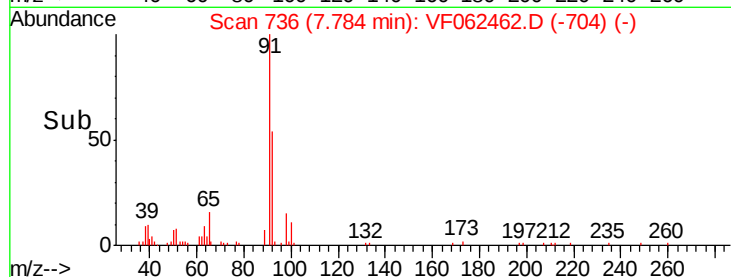
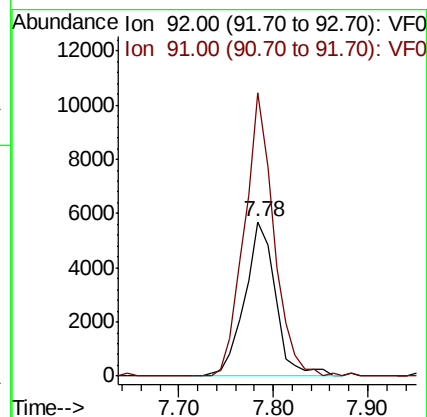
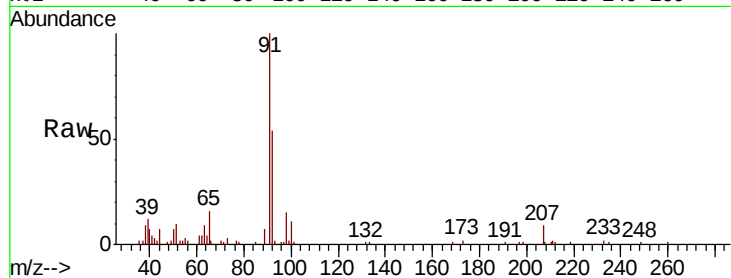
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 92 Resp: 12840

Ion Ratio Lower Upper

92 100

91 176.2 138.7 208.1



#62

4-Bromofluorobenzene

Concen: 39.372 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. 0.01 min

Lab File: VF062462.D

Acq: 11 May 2019 16:12

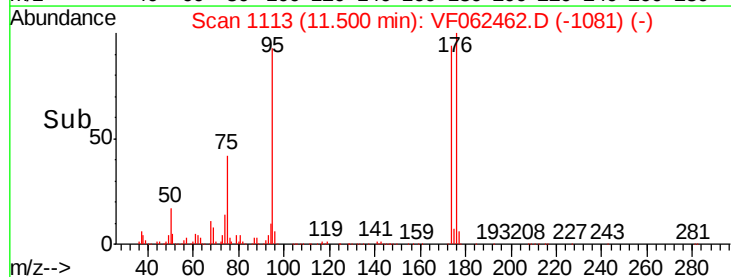
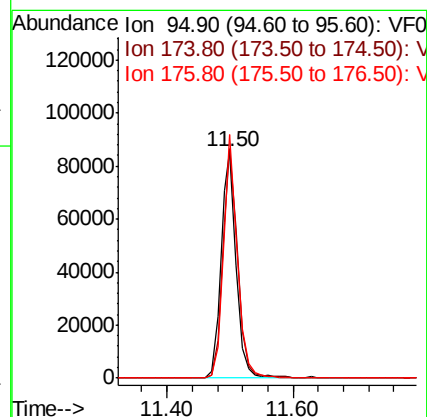
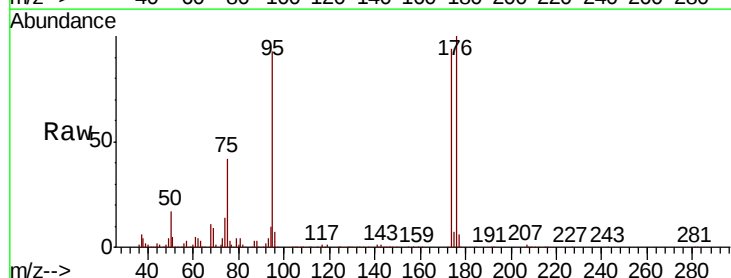
Tgt Ion: 95 Resp: 146065

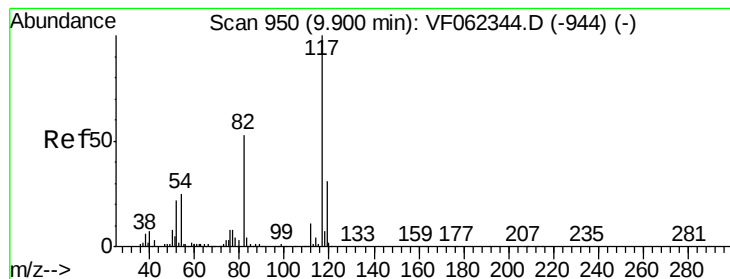
Ion Ratio Lower Upper

95 100

174 99.4 0.0 191.8

176 98.9 0.0 193.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.91 min Scan# 952

Delta R.T. 0.01 min

Lab File: VF062462.D

Acq: 11 May 2019 16:12

Instrument :

MSVOA_F

ClientSampled :

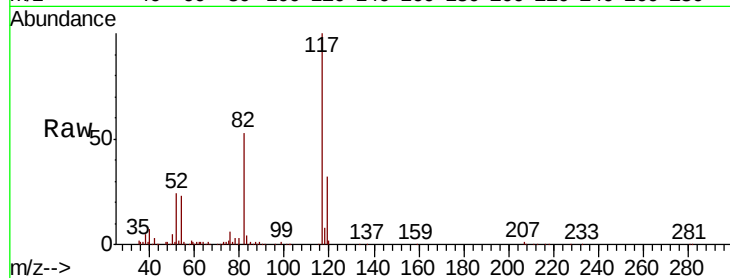
Tot Ion:117 Resp: 351651

Ion Ratio Lower Upper

117 100

82 52.7 42.2 63.2

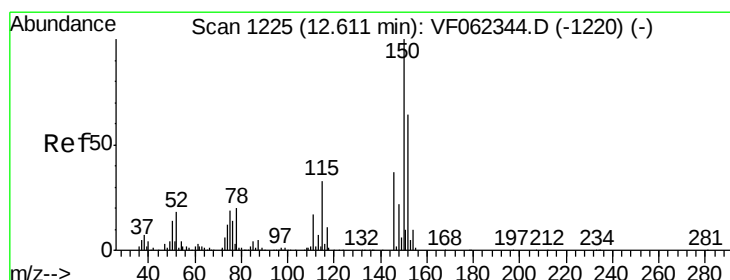
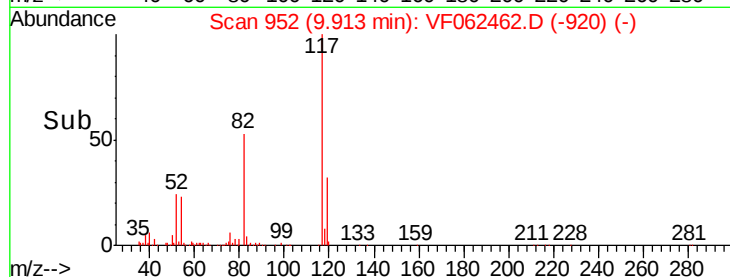
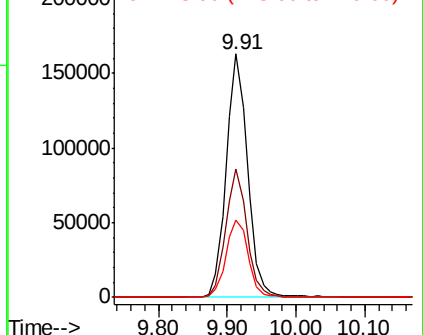
119 31.9 25.0 37.4



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# 1226

Delta R.T. 0.00 min

Lab File: VF062462.D

Acq: 11 May 2019 16:12

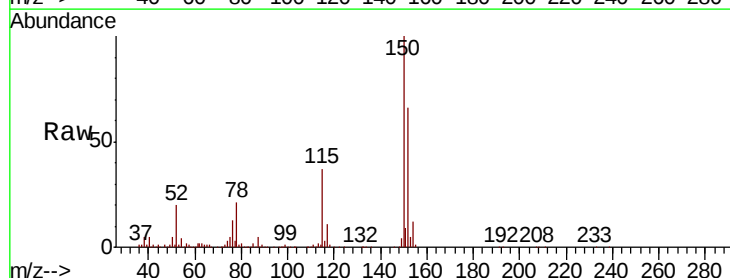
Tgt Ion:152 Resp: 189490

Ion Ratio Lower Upper

152 100

115 57.0 26.4 79.2

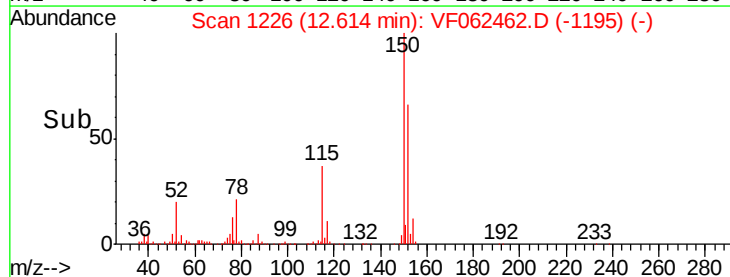
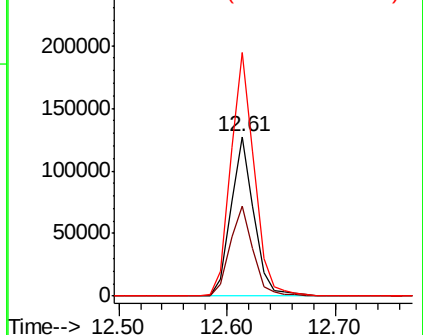
150 155.5 0.0 335.0

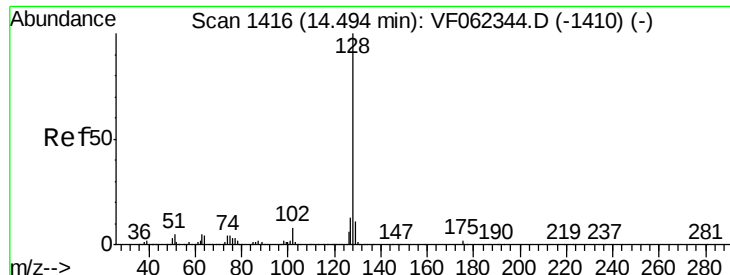


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#95

Naphthalene

Concen: 2.319 ug/l

RT: 14.50 min Scan# 1417

Delta R.T. 0.00 min

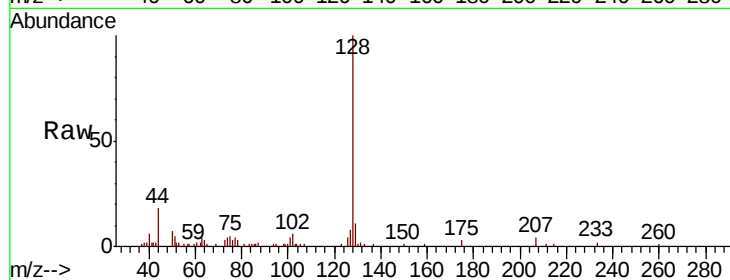
Lab File: VF062462.D

Acq: 11 May 2019 16:12

Instrument :

MSVOA_F

ClientSampleId :



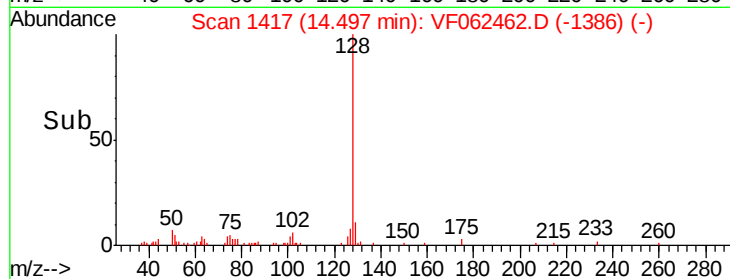
Tot Ion:128 Resp: 16295

Ion Ratio Lower Upper

128 100

127 10.8 10.5 15.7

129 10.9 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

