

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 :
 B-3

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%	

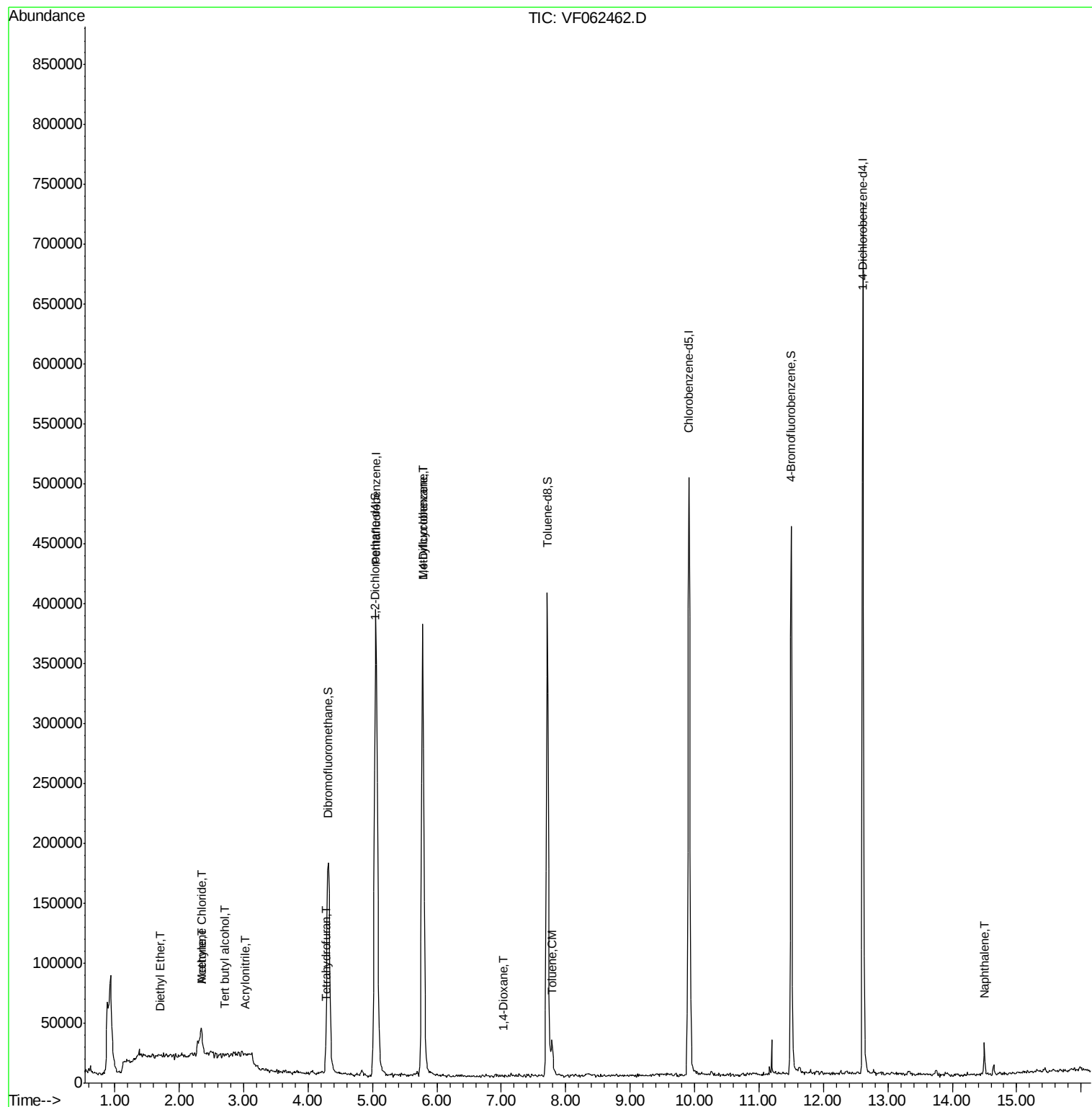
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.41	94	500	Below Cal	#	3
8) Diethyl Ether	1.70	74	1149	1.500	ug/l	97
11) Tert butyl alcohol	2.72	59	345	2.015	ug/l #	70
13) Acrolein	2.07	56	698	Below Cal	#	50
15) Acrylonitrile	3.03	53	512	1.579	ug/l #	1
16) Acetone	2.35	43	9982	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

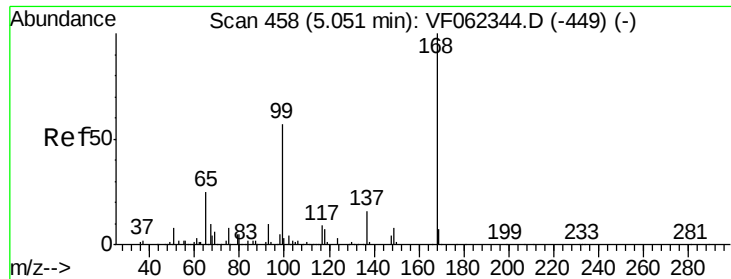
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF051119\
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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 :

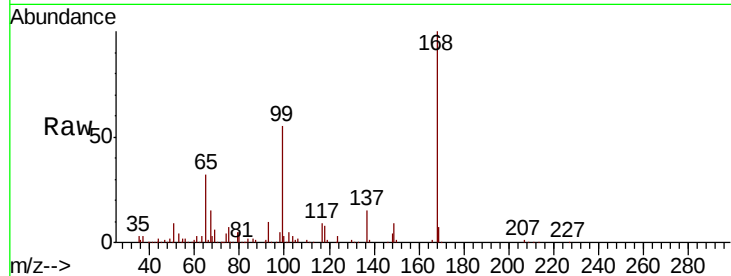
B-3

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

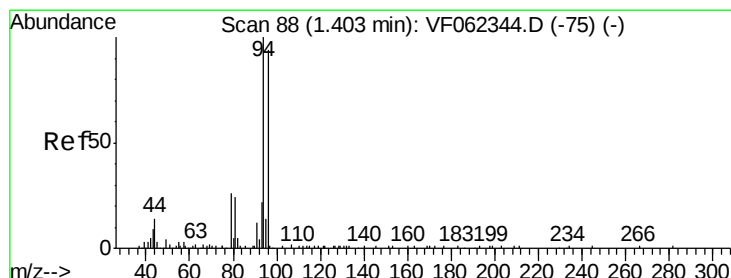
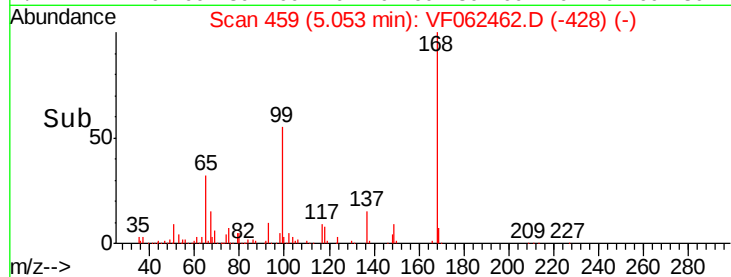
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.41 min Scan# 89

Delta R.T. 0.00 min

Lab File: VF062462.D

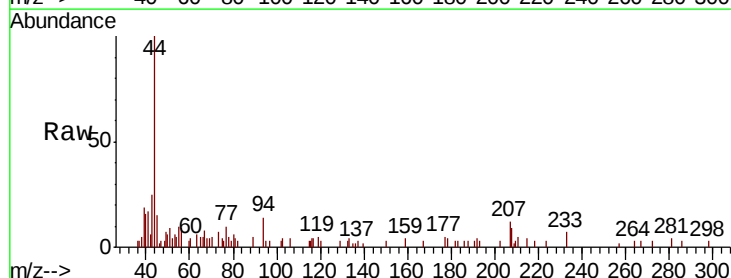
Acq: 11 May 2019 16:12

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

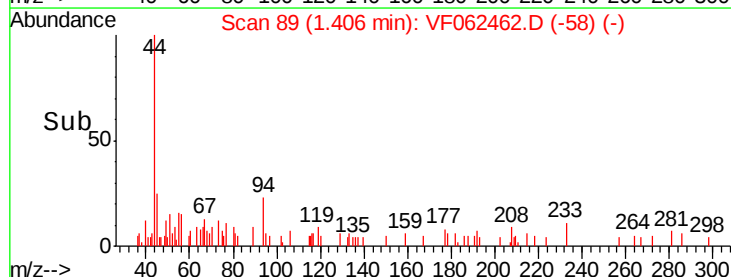
600

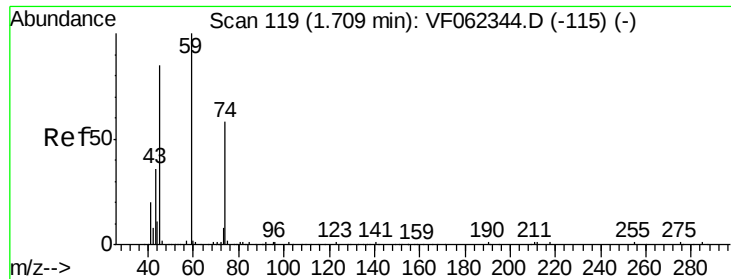
400

200

0

Time-->





#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 :

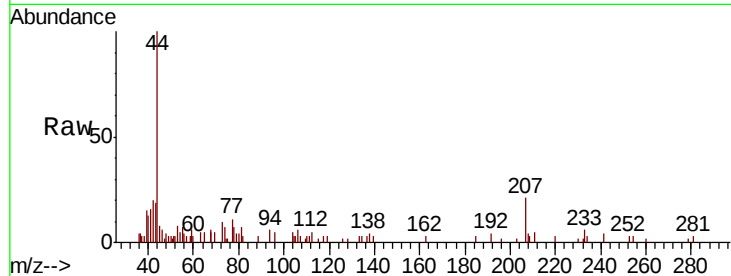
B-3

Tot Ion: 74 Resp: 1149

Ion Ratio Lower Upper

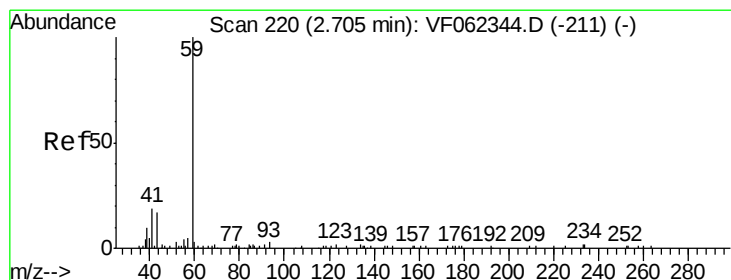
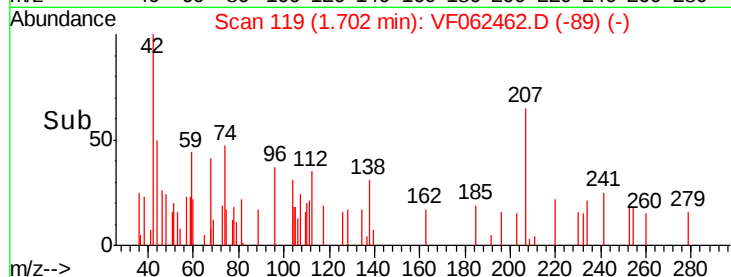
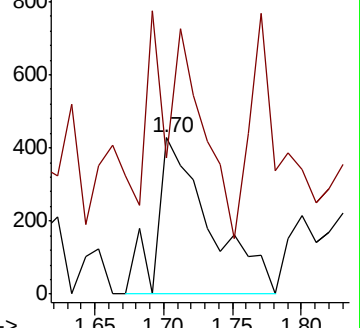
74 100

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

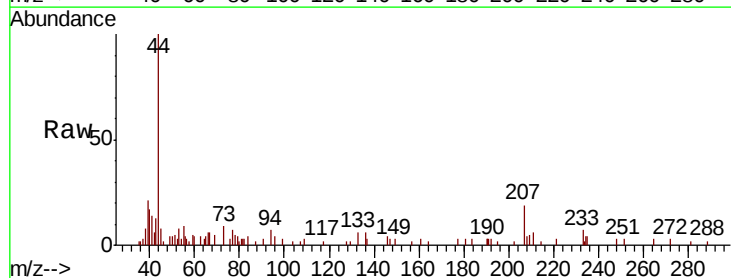
Acq: 11 May 2019 16:12

Tgt Ion: 59 Resp: 345

Ion Ratio Lower Upper

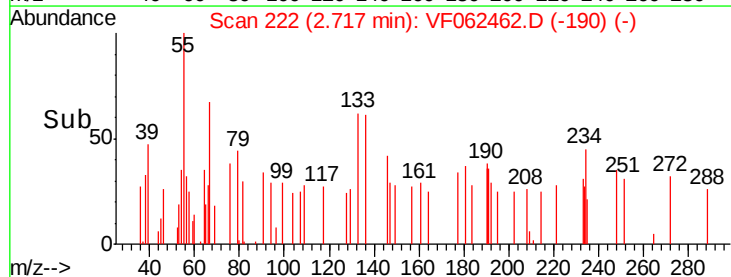
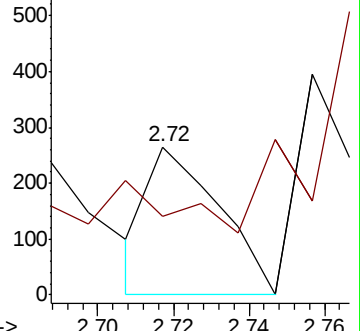
59 100

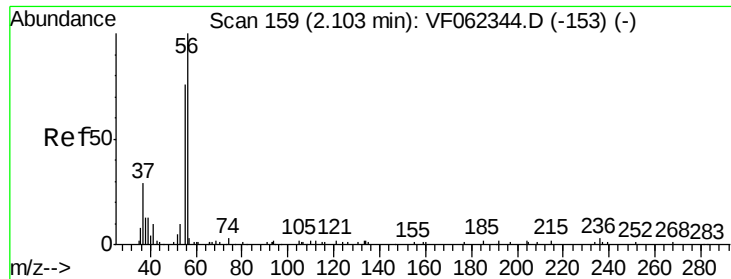
57 0.0 9.3 13.9#



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 :

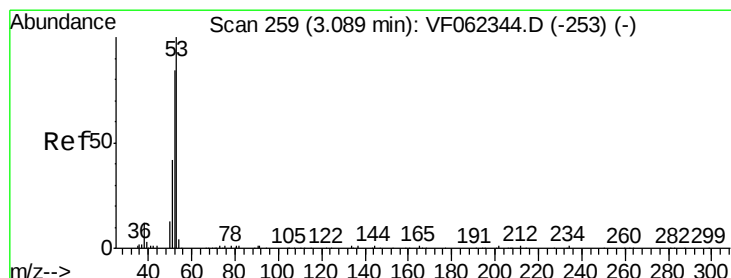
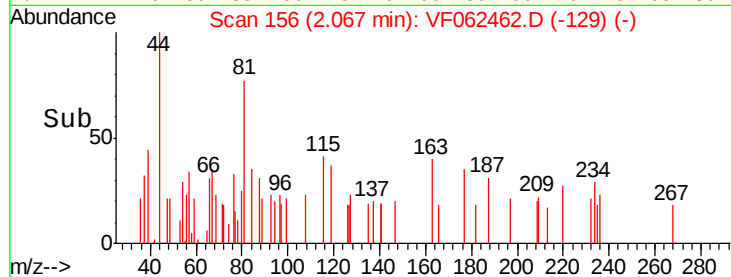
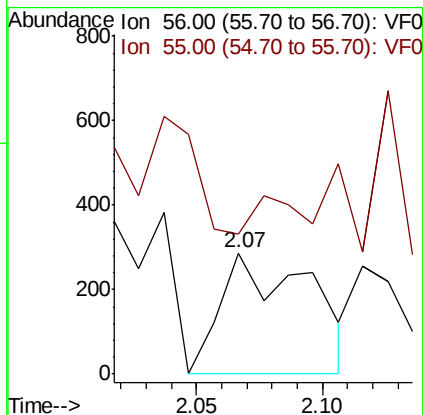
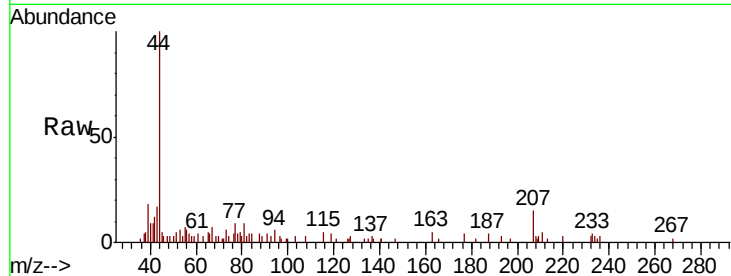
B-3

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

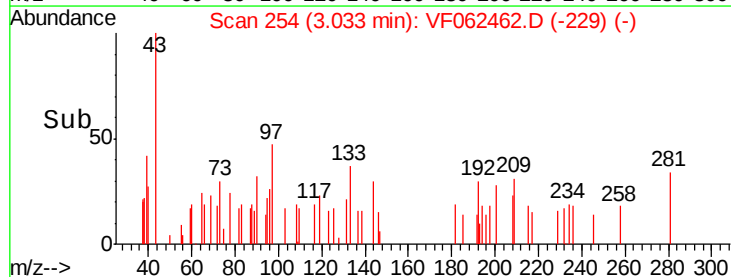
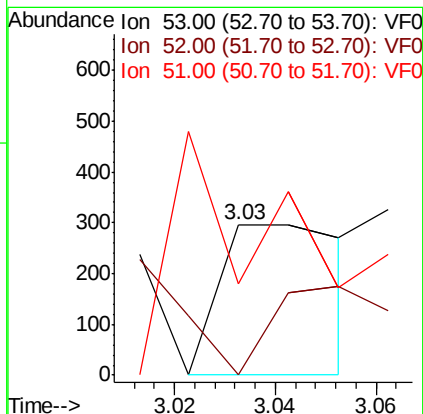
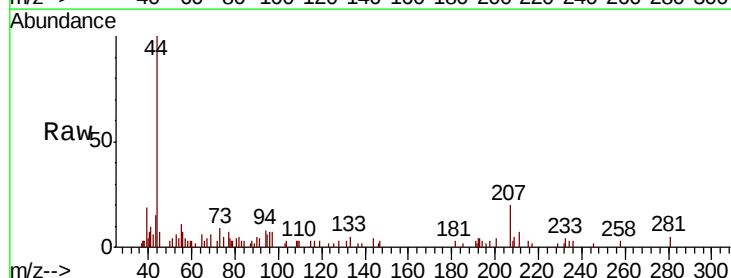
Tgt Ion: 53 Resp: 512

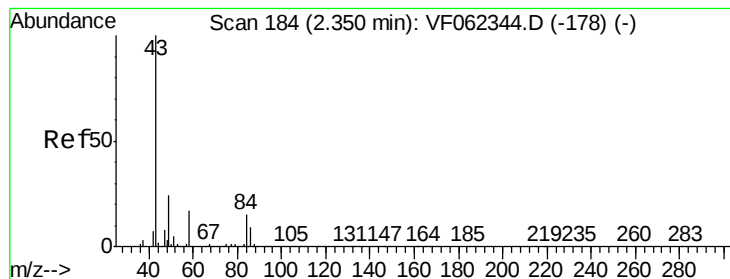
Ion Ratio Lower Upper

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 :

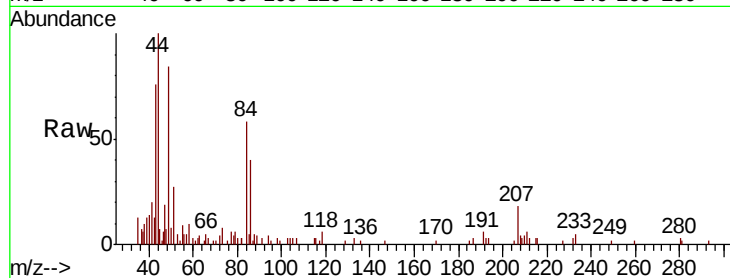
B-3

Tot Ion: 43 Resp: 9982

Ion Ratio Lower Upper

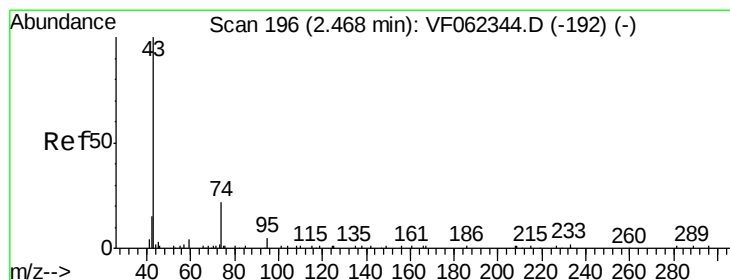
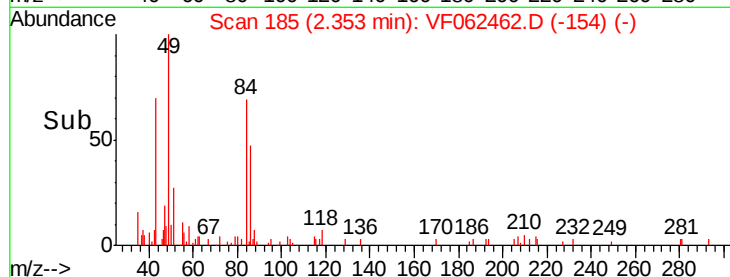
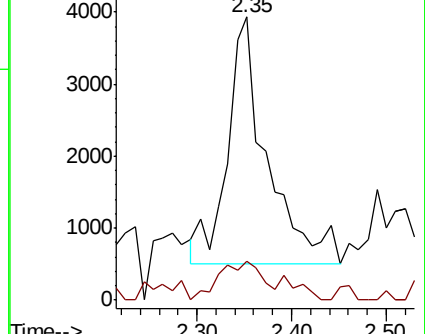
43 100

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

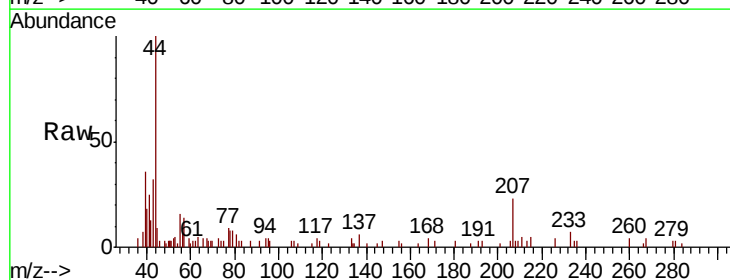
Acq: 11 May 2019 16:12

Tgt Ion: 43 Resp: 1993

Ion Ratio Lower Upper

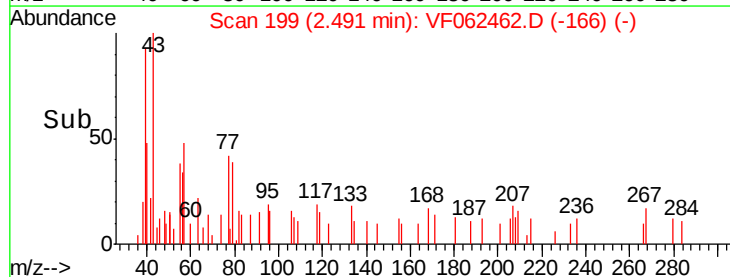
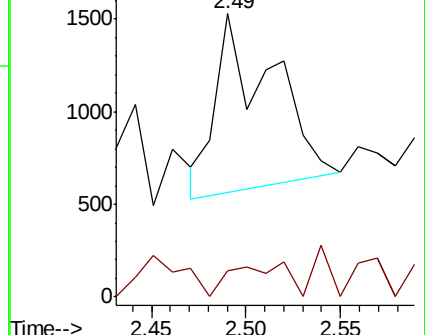
43 100

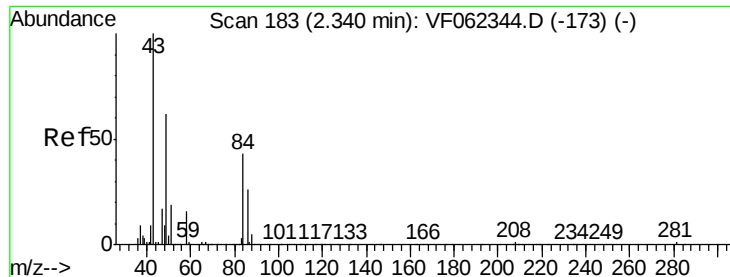
74 0.0 15.0 22.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

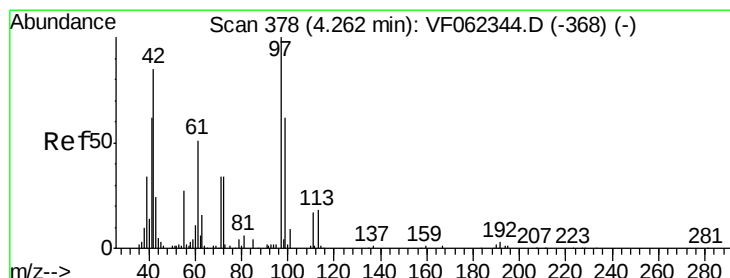
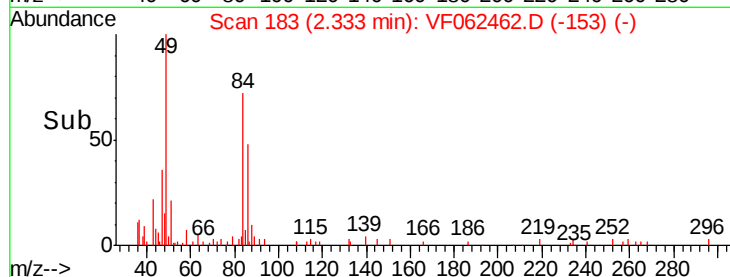
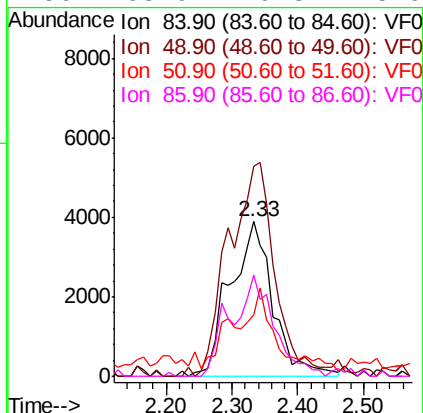
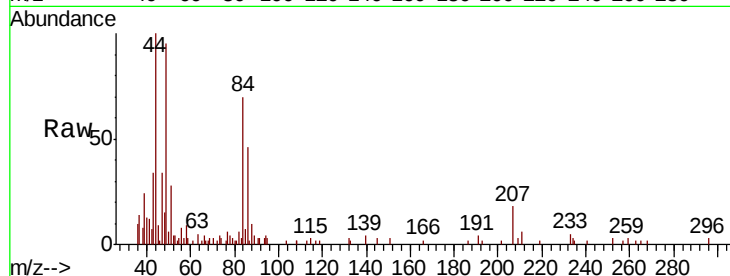




#20
Methvlene Chloride
Concen: 7.999 ug/l
RT: 2.33 min Scan# 183
Delta R.T. -0.01 min
Lab File: VF062462.D
Acq: 11 May 2019 16:12

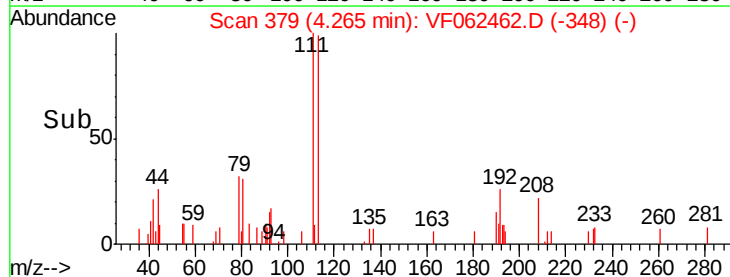
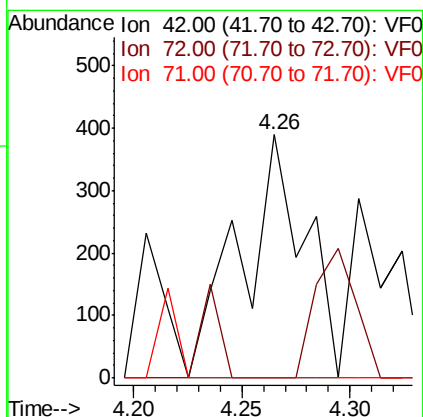
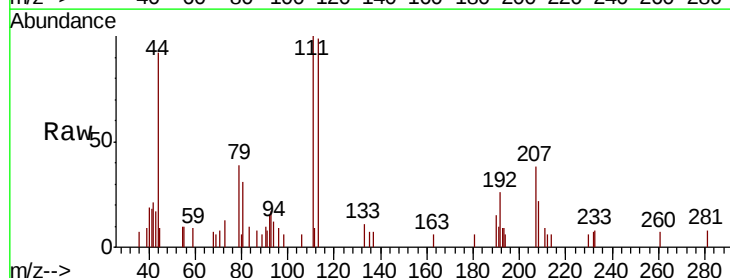
Instrument :
MSVOA_F
ClientSampleId :
B-3

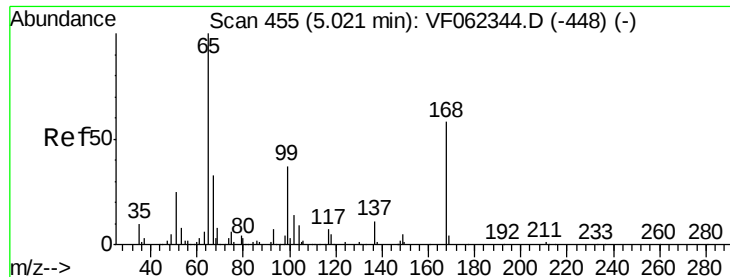
Tot Ion:	84	Resp:	17733
Ion	Ratio	Lower	Upper
84	100		
49	129.9	117.5	176.3
51	36.3	37.0	55.4#
86	65.9	49.3	73.9



#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#

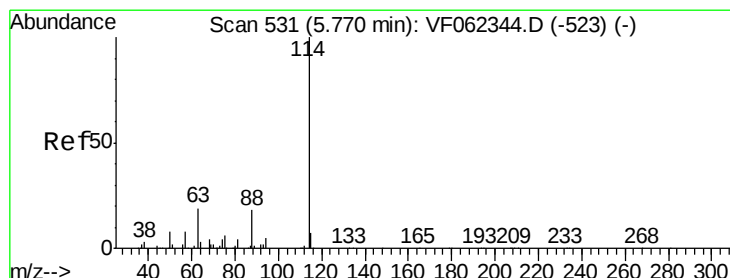
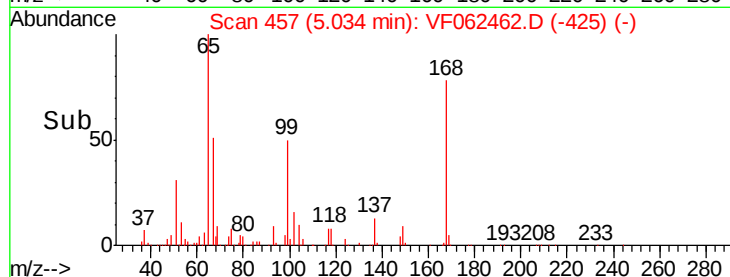
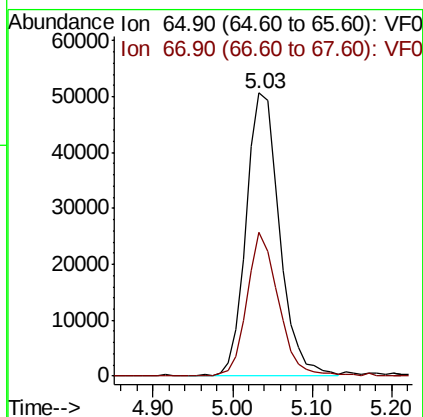
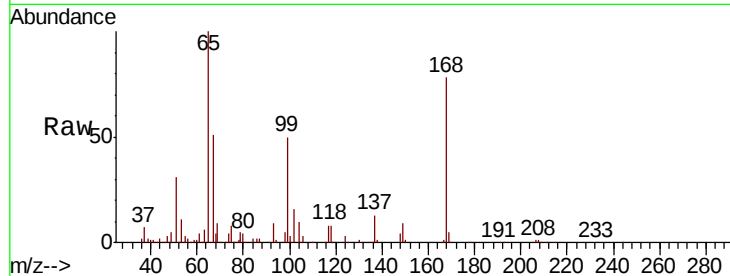




#33
 1,2-Dichloroethane-d4
 Concen: 48.200 ug/l
 RT: 5.03 min Scan# 457
 Delta R.T. 0.01 min
 Lab File: VF062462.D
 Acq: 11 May 2019 16:12

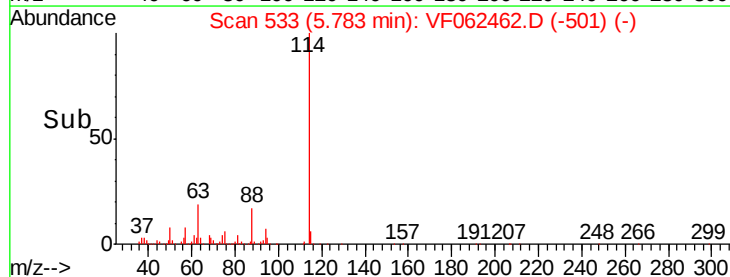
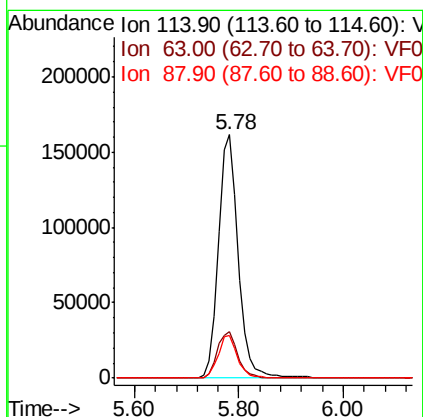
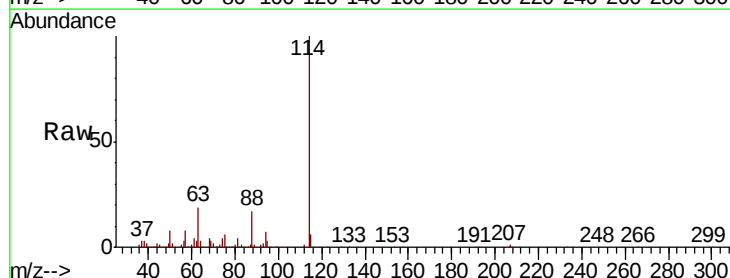
Instrument :
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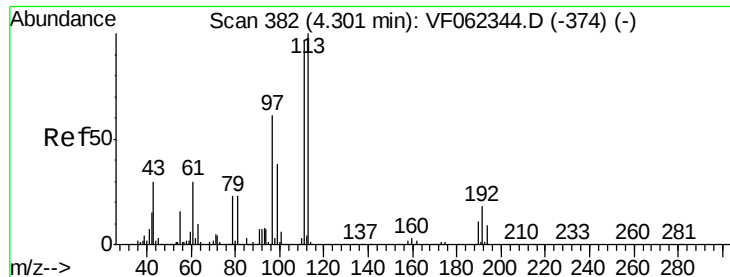
Tot Ion: 65 Resp: 145988
 Ion Ratio Lower Upper
 65 100
 67 48.0 0.0 85.8



#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

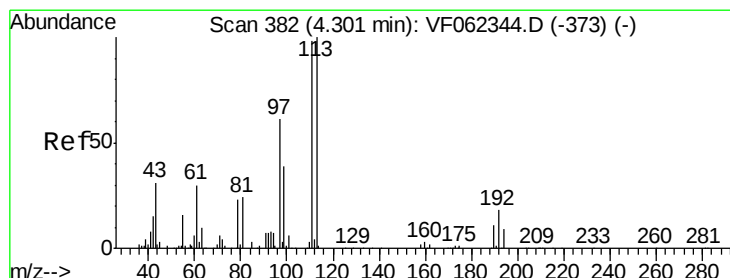
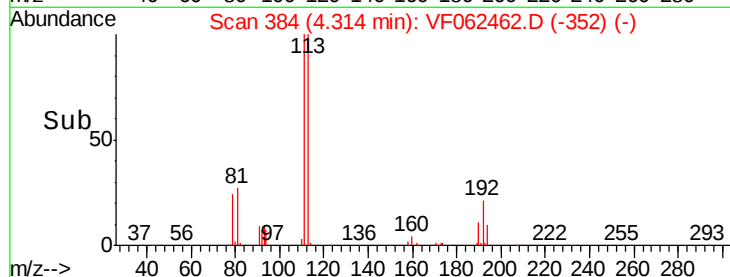
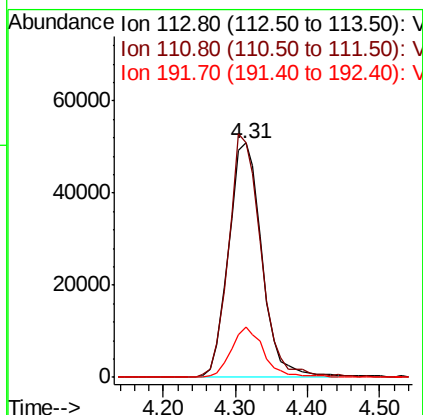
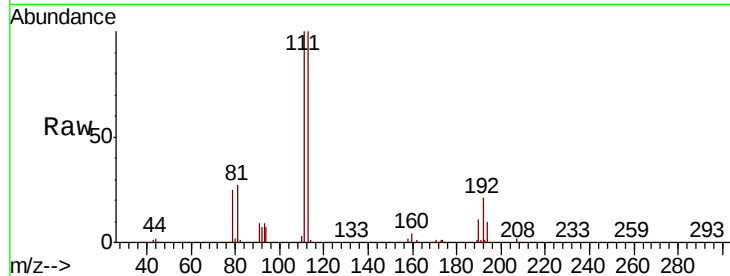




#35
 Dibromofluoromethane
 Concen: 48.037 ug/l
 RT: 4.31 min Scan# 384
 Delta R.T. 0.01 min
 Lab File: VF062462.D
 Acq: 11 May 2019 16:12

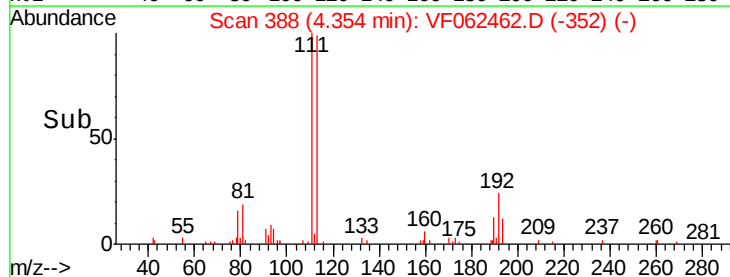
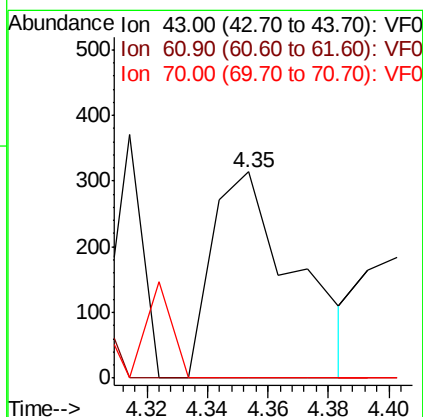
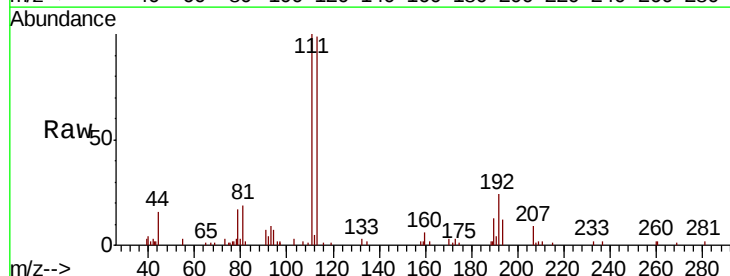
Instrument :
 MSVOA_F
 ClientSampleId :
 B-3

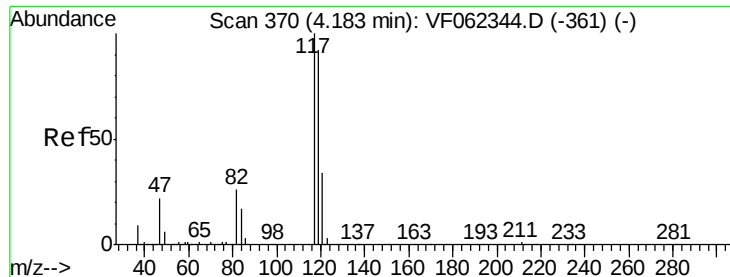
Tot Ion:113 Resp: 163181
 Ion Ratio Lower Upper
 113 100
 111 101.9 79.4 119.0
 192 20.8 16.0 24.0



#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#





#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 :

B-3

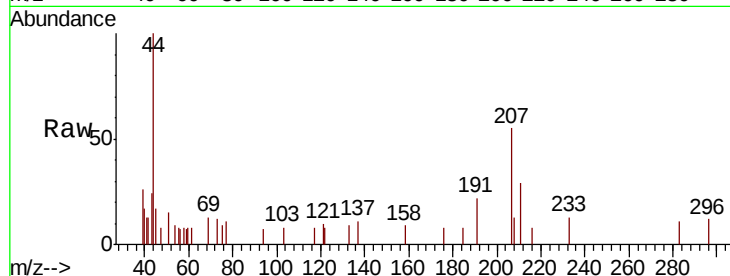
Tot Ion:117 Resp: 70

Ion Ratio Lower Upper

117 100

119 0.0 73.4 110.2#

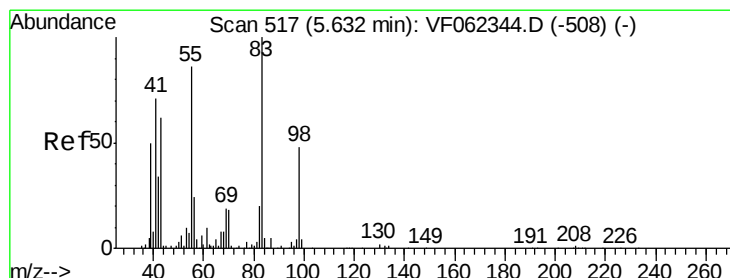
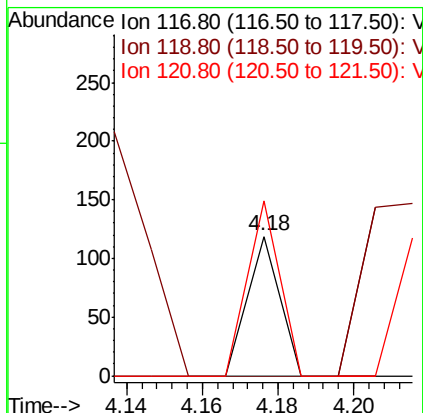
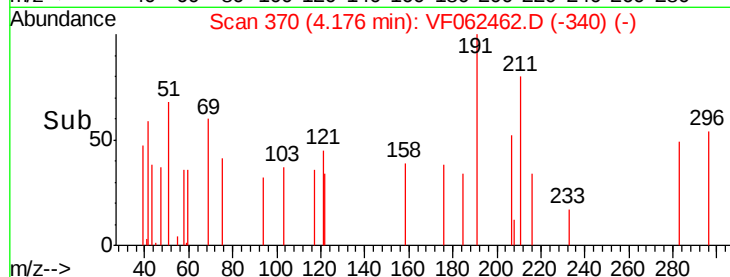
121 125.2 27.4 41.0#



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

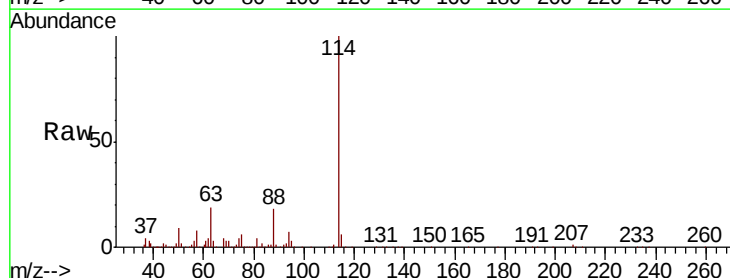
Tgt Ion: 83 Resp: 6395

Ion Ratio Lower Upper

83 100

55 50.7 69.0 103.6#

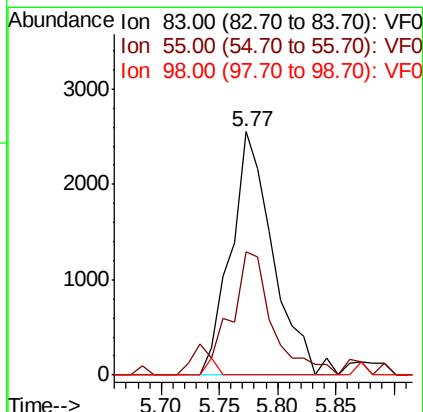
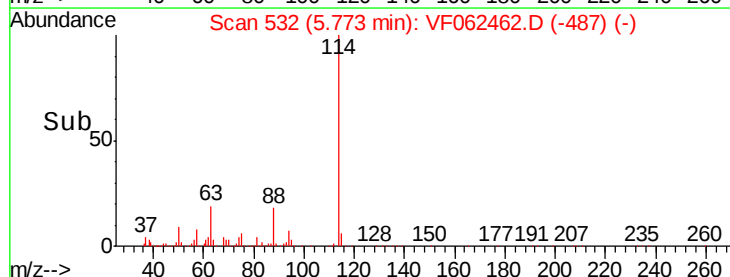
98 0.0 38.6 58.0#

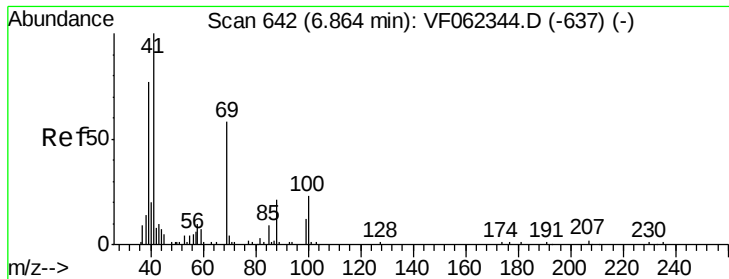


Abundance Ion 83.00 (82.70 to 83.70): VF0

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
ClientSampled :
B-3

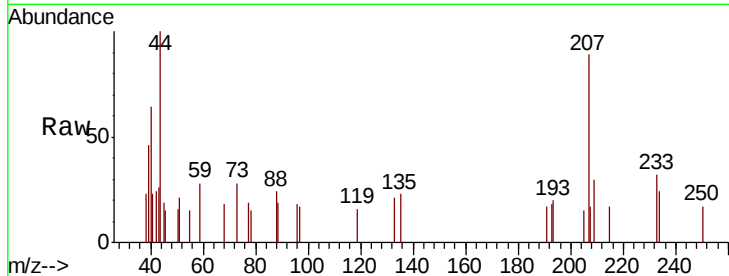
Tot Ion: 88 Resp: 173

Ion Ratio Lower Upper

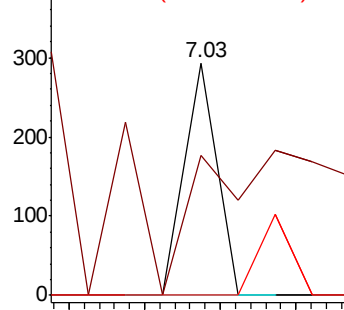
88 100

43 0.0 55.6 83.4#

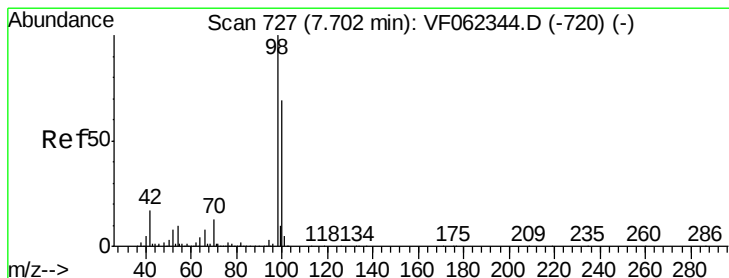
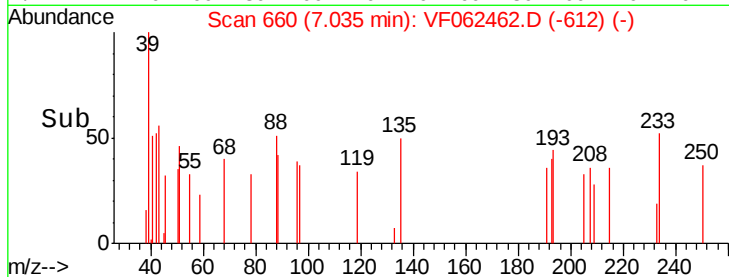
58 34.7 52.8 79.2#



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



Time-->



#50

Toluene-d8

Concen: 41.080 ug/l

RT: 7.71 min Scan# 729

Delta R.T. 0.01 min

Lab File: VF062462.D

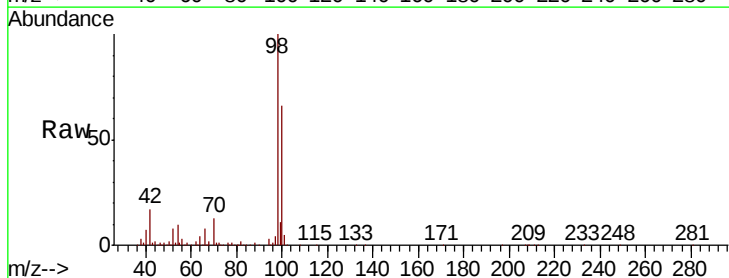
Acq: 11 May 2019 16:12

Tgt Ion: 98 Resp: 337798

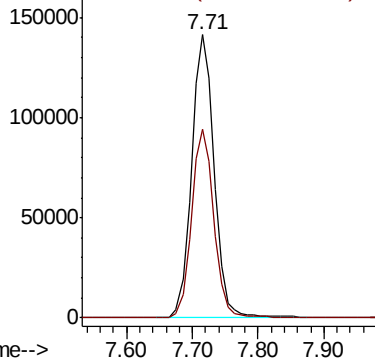
Ion Ratio Lower Upper

98 100

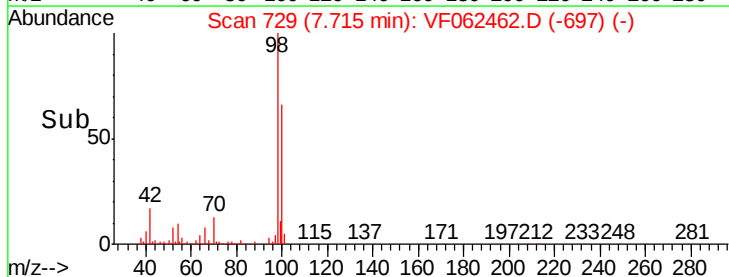
100 66.0 53.3 79.9

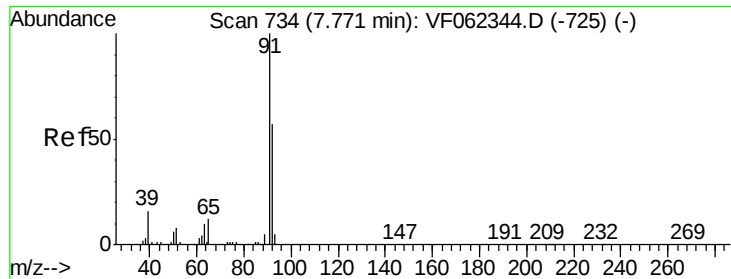


Abundance Ion 98.00 (97.70 to 98.70): VF0
Ion 100.00 (99.70 to 100.70): VF0



Time-->





#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 :

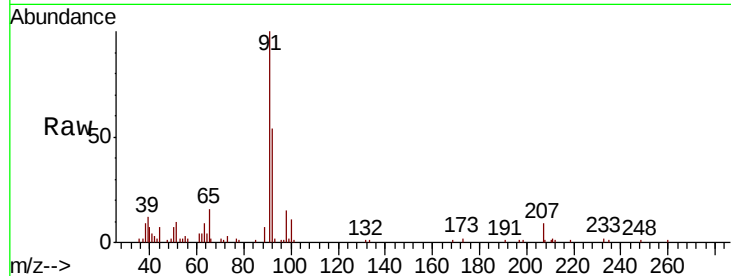
B-3

Tot Ion: 92 Resp: 12840

Ion Ratio Lower Upper

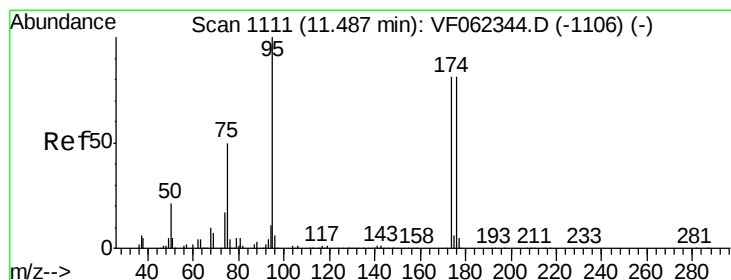
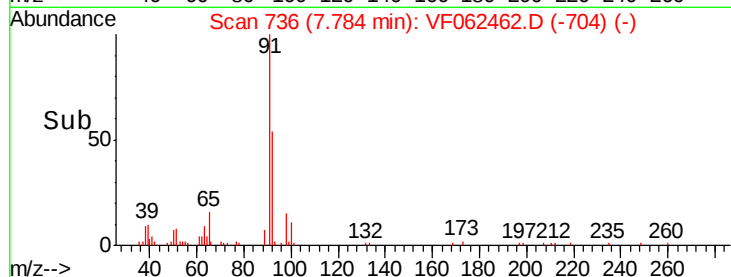
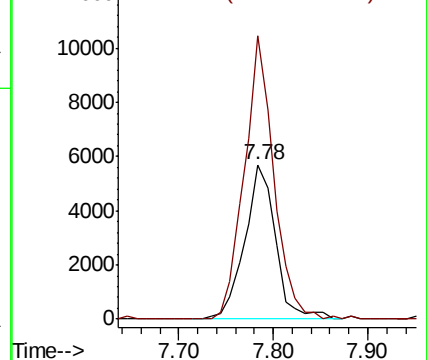
92 100

91 176.2 138.7 208.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#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

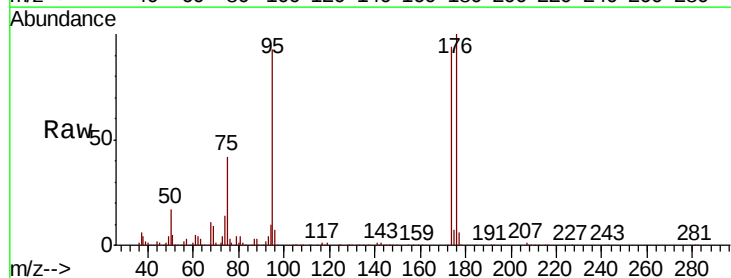
Tgt Ion: 95 Resp: 146065

Ion Ratio Lower Upper

95 100

174 99.4 0.0 191.8

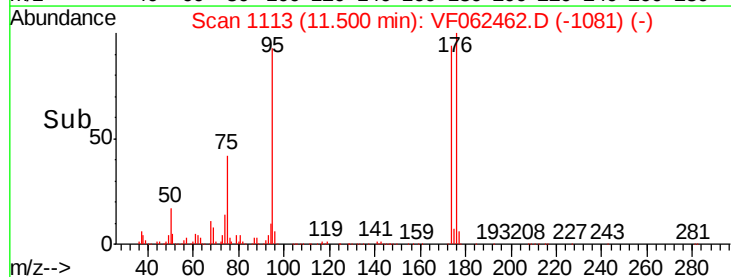
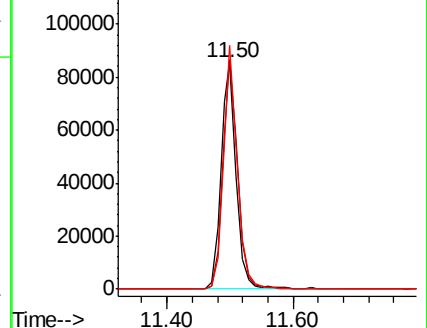
176 98.9 0.0 193.2

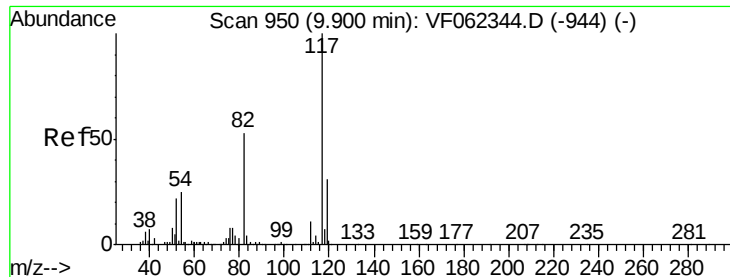


Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

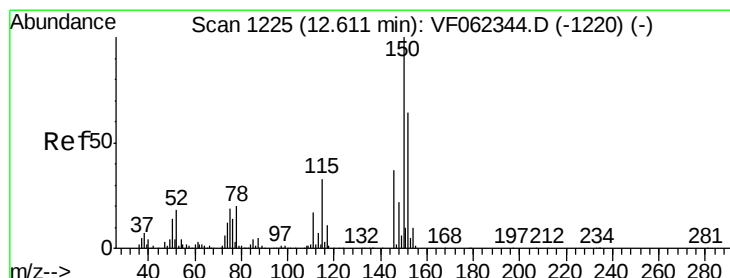
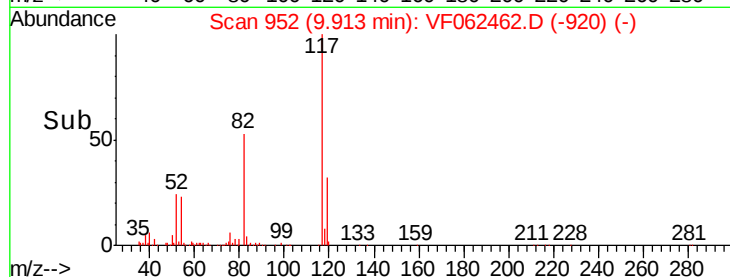
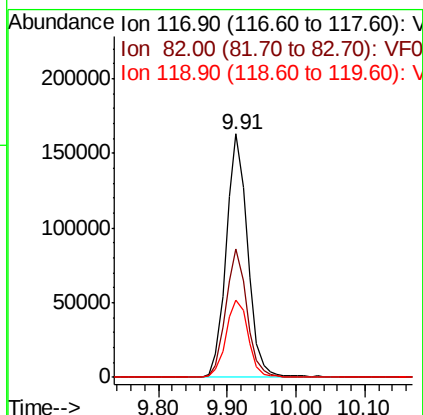
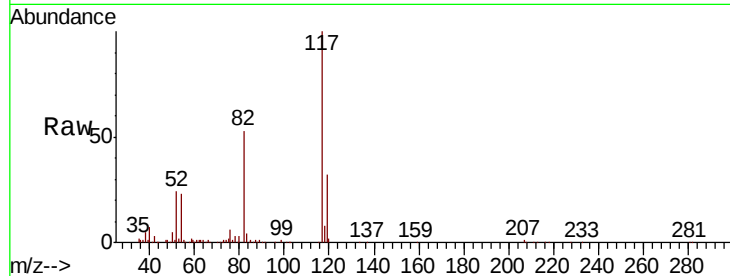




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 952
Delta R.T. 0.01 min
Lab File: VF062462.D
Acq: 11 May 2019 16:12

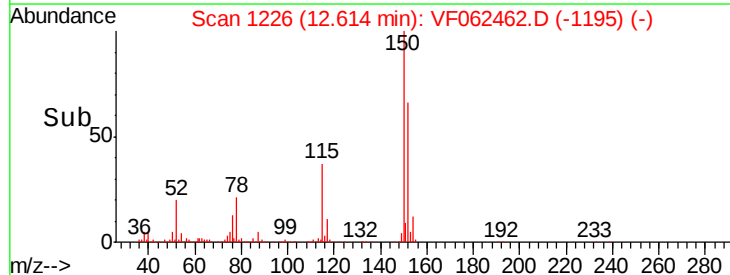
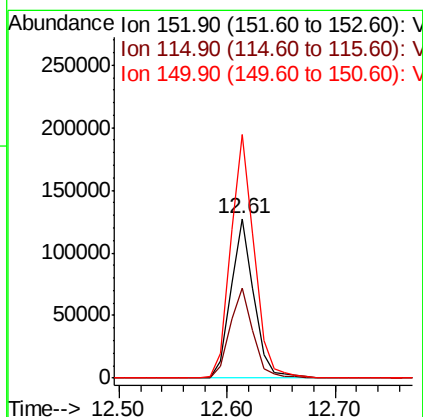
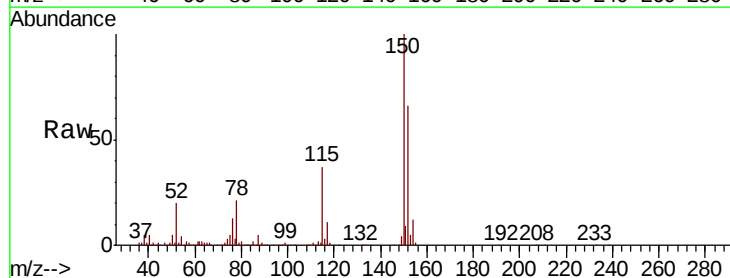
Instrument :
MSVOA_F
ClientSampleId :
B-3

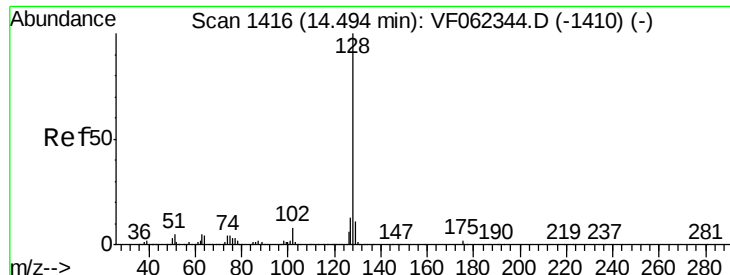
Tot Ion	Ratio	Lower	Upper
117	100		
82	52.7	42.2	63.2
119	31.9	25.0	37.4



#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	Ratio	Lower	Upper
152	100		
115	57.0	26.4	79.2
150	155.5	0.0	335.0





#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 :

B-3

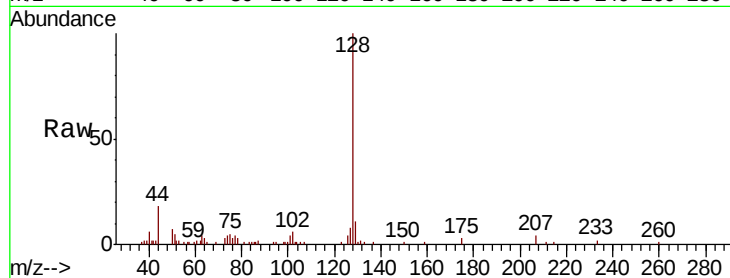
Tot Ion:128 Resp: 16295

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

