

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051119\
 Data File : VF062463.D
 Acq On : 11 May 2019 16:40
 Operator : FY/SY
 Sample : K2729-04RE
 Misc : 5.95µ/5mL/MSVOA F/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 B-5

Quant Time: May 12 03:47:32 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	5.06	168	312652	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.78	114	411890	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	319687	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.61	152	165771	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.04	65	151811	51.38	ug/l	0.02
Spiked Amount	50.000		Recovery	=	102.76%	
35) Dibromofluoromethane	4.31	113	162970	49.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.32%	
50) Toluene-d8	7.71	98	339417	42.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.46%	
62) 4-Bromofluorobenzene	11.49	95	136599	38.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	76.24%	

Target Compounds

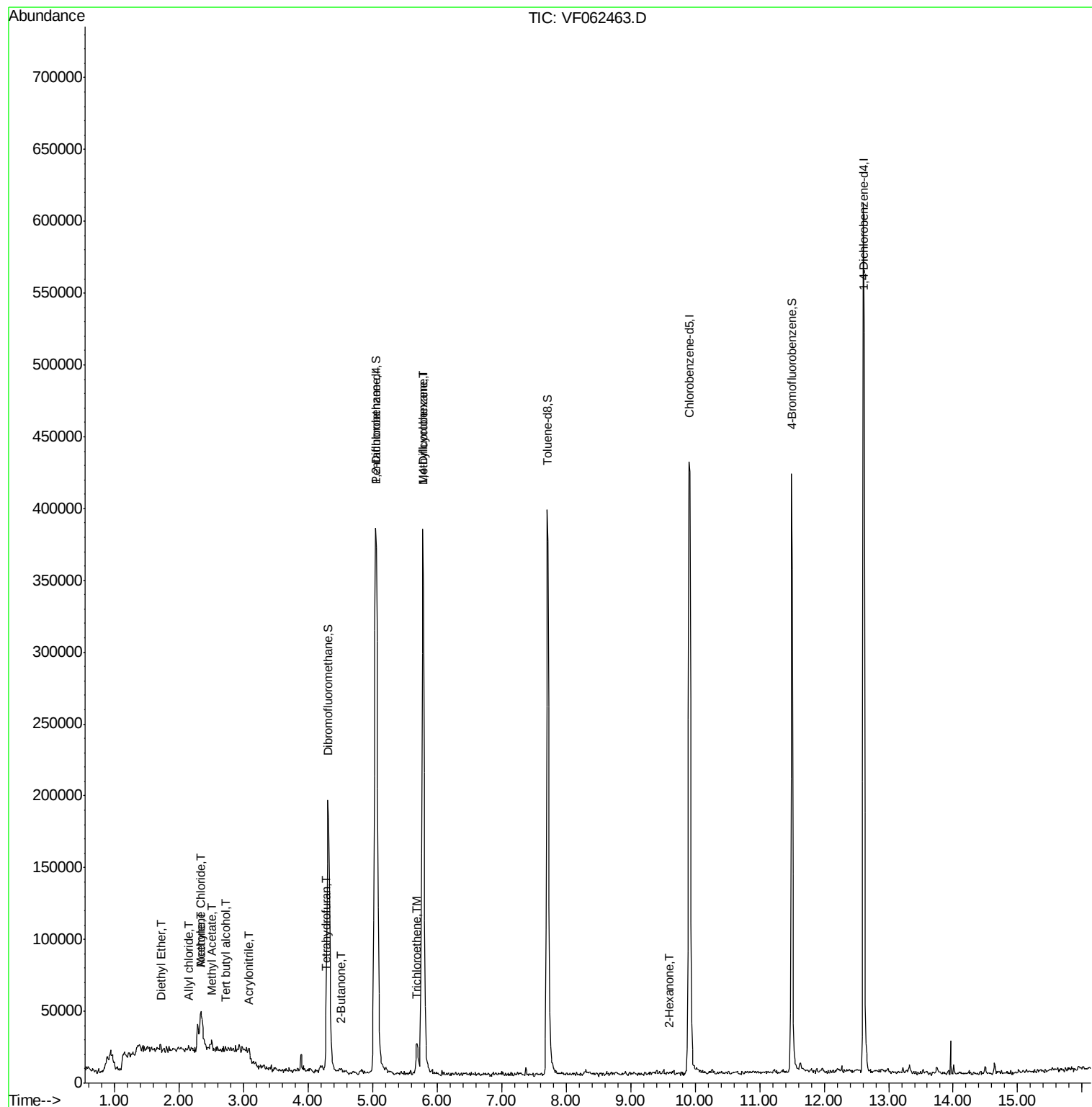
					Qvalue	
5) Bromomethane	1.37	94	332	Below Cal	#	36
8) Diethyl Ether	1.73	74	1340	1.793	ug/l	63
11) Tert butyl alcohol	2.72	59	297	1.779	ug/l #	70
13) Acrolein	2.10	56	372	Below Cal	#	1
14) Allyl chloride	2.14	41	3842	1.814	ug/l #	7
15) Acrylonitrile	3.07	53	538	1.701	ug/l #	19
16) Acetone	2.35	43	19331	32.342	ug/l	97
18) Methyl Acetate	2.50	43	5338	1.883	ug/l #	72
20) Methylene Chloride	2.34	84	14186	6.560	ug/l #	89
25) 2-Butanone	4.53	43	1229	1.637	ug/l #	86
29) Tetrahydrofuran	4.27	42	600	1.739	ug/l #	36
37) Ethyl Acetate	4.30	43	1075	Below Cal	#	73
38) Carbon Tetrachloride	4.11	117	75	Below Cal	#	14
39) Methylcyclohexane	5.79	83	6604	1.861	ug/l #	37
44) Trichloroethene	5.69	130	9560	3.340	ug/l	96
49) 1,4-Dioxane	6.90	88	61	Below Cal	#	13
59) 2-Hexanone	9.60	43	1802	2.137	ug/l #	40

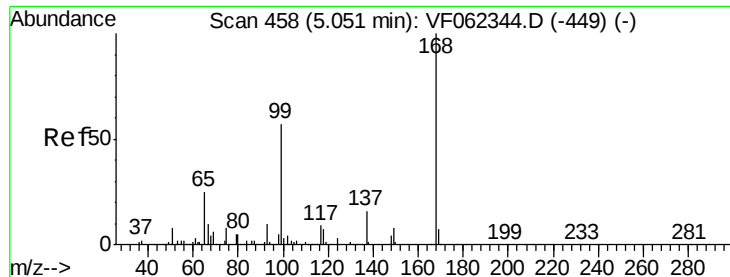
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.06 min Scan# 459

Delta R.T. 0.01 min

Lab File: VF062463.D

Acq: 11 May 2019 16:40

Instrument :

MSVOA_F

ClientSampleId :

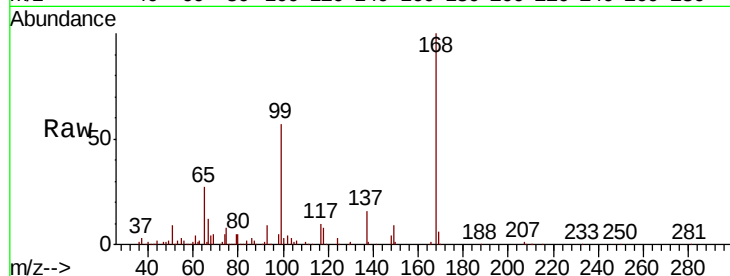
B-5

Tot Ion:168 Resp: 312652

Ion Ratio Lower Upper

168 100

99 57.1 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.06

100000

80000

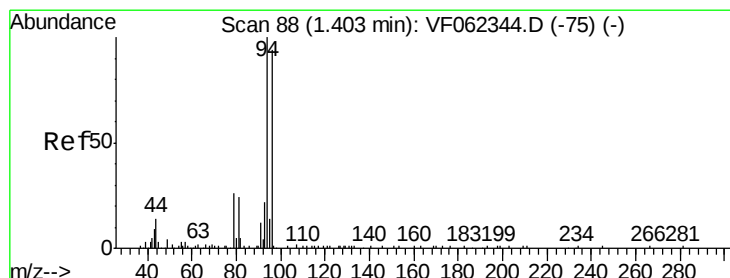
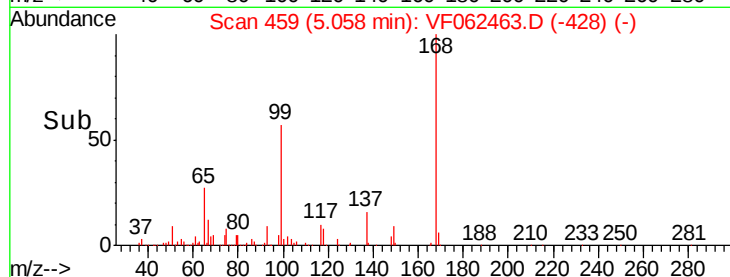
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.37 min Scan# 85

Delta R.T. -0.03 min

Lab File: VF062463.D

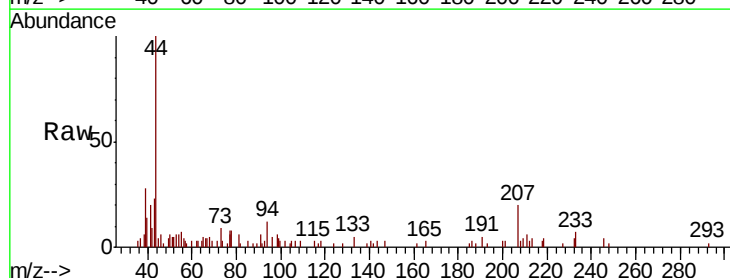
Acq: 11 May 2019 16:40

Tgt Ion: 94 Resp: 332

Ion Ratio Lower Upper

94 100

96 32.6 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

1.37

600

500

400

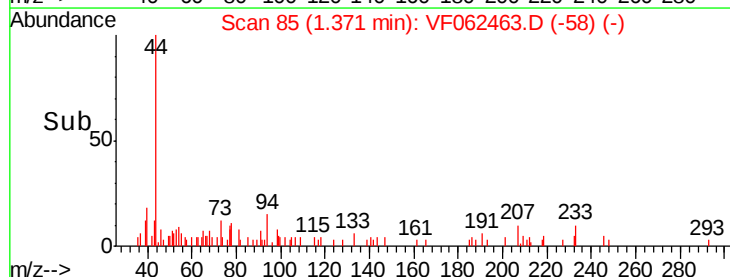
300

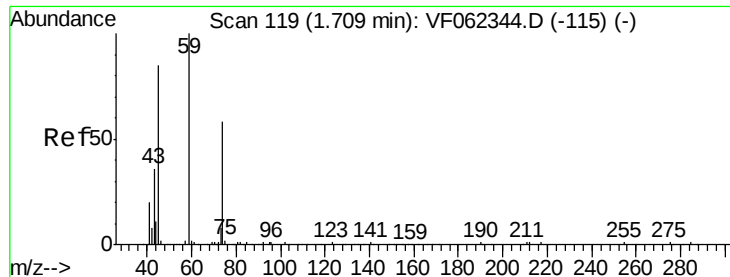
200

100

0

Time-->





#8

Diethyl Ether

Concen: 1.793 ug/l

RT: 1.73 min Scan# 121

Delta R.T. 0.02 min

Lab File: VF062463.D

Acq: 11 May 2019 16:40

Instrument :

MSVOA_F

ClientSampled :

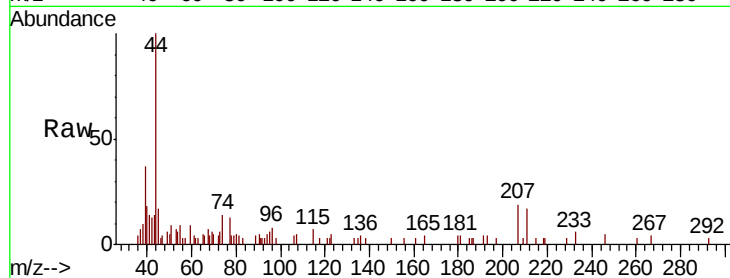
B-5

Tot Ion: 74 Resp: 1340

Ion Ratio Lower Upper

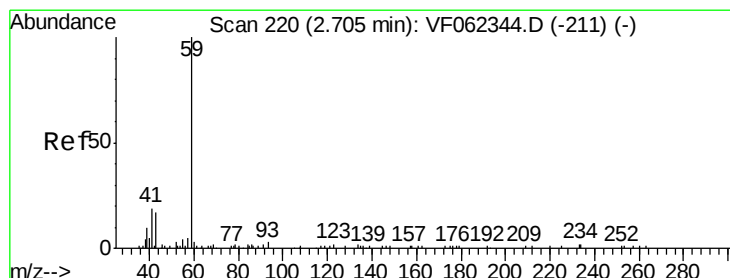
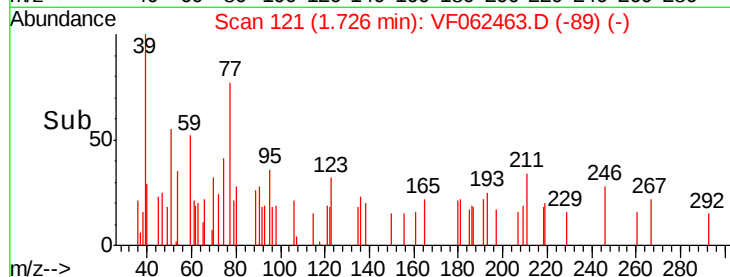
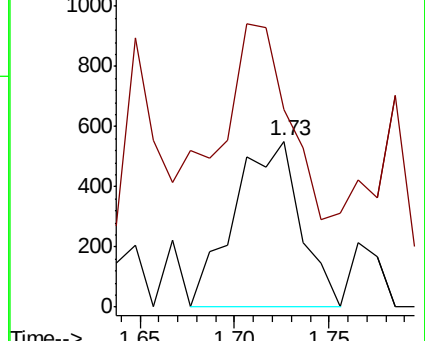
74 100

45 101.0 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: 1.779 ug/l

RT: 2.72 min Scan# 222

Delta R.T. 0.02 min

Lab File: VF062463.D

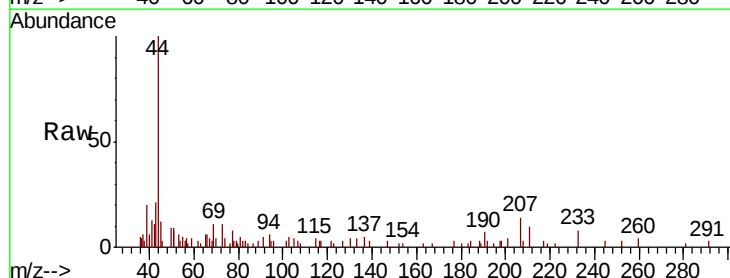
Acq: 11 May 2019 16:40

Tgt Ion: 59 Resp: 297

Ion Ratio Lower Upper

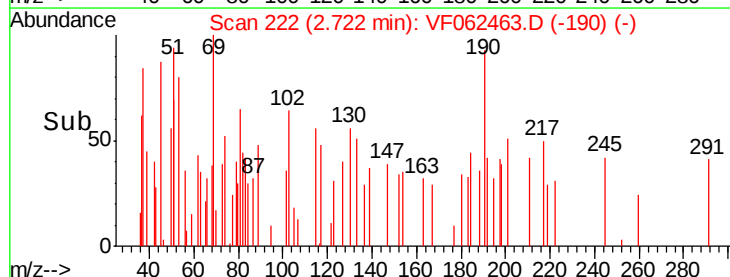
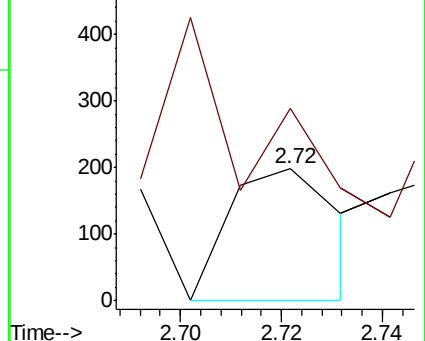
59 100

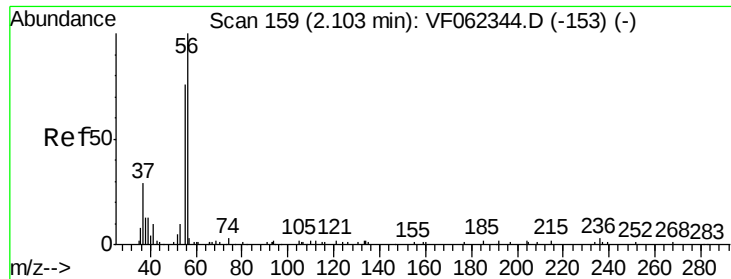
57 0.0 9.3 13.9#



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: 2.10 min Scan# 159

Delta R.T. -0.00 min

Lab File: VF062463.D

Acq: 11 May 2019 16:40

Instrument :

MSVOA_F

ClientSampled :

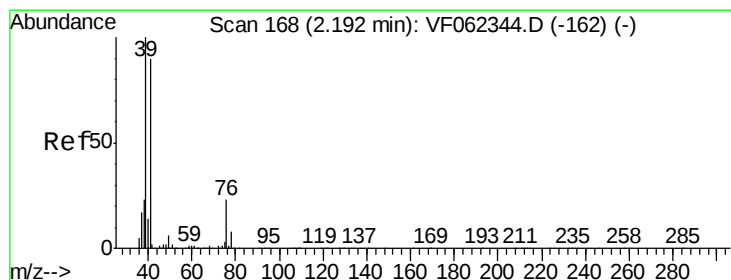
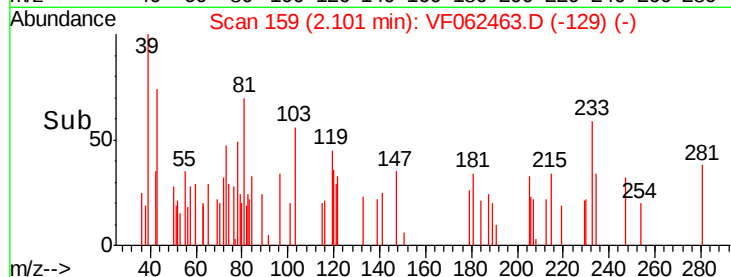
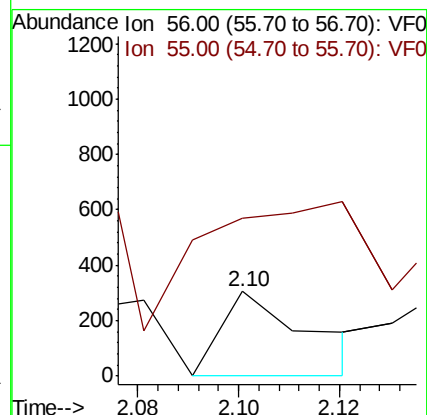
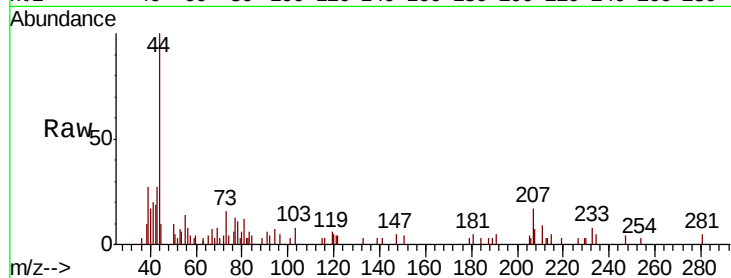
B-5

Tot Ion: 56 Resp: 372

Ion Ratio Lower Upper

56 100

55 243.5 58.4 87.6#



#14

Allyl chloride

Concen: 1.814 ug/l

RT: 2.14 min Scan# 163

Delta R.T. -0.05 min

Lab File: VF062463.D

Acq: 11 May 2019 16:40

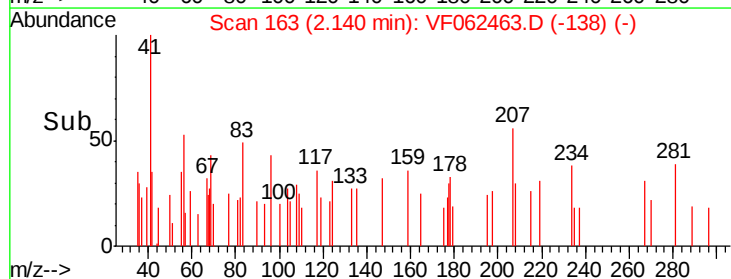
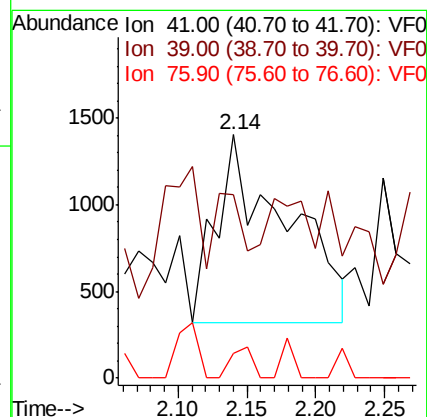
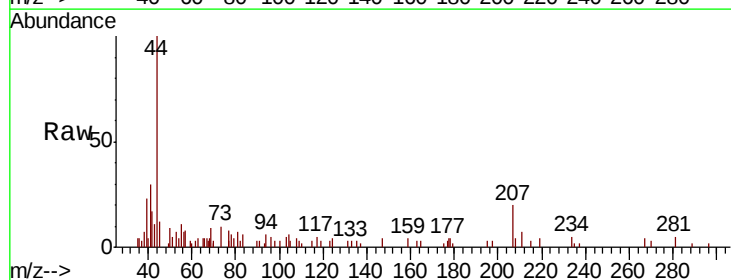
Tgt Ion: 41 Resp: 3842

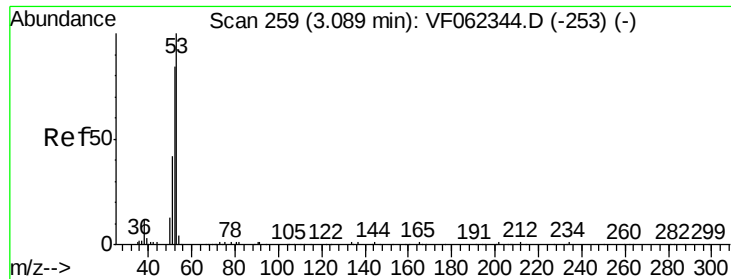
Ion Ratio Lower Upper

41 100

39 0.0 90.8 136.2#

76 5.0 22.2 33.4#

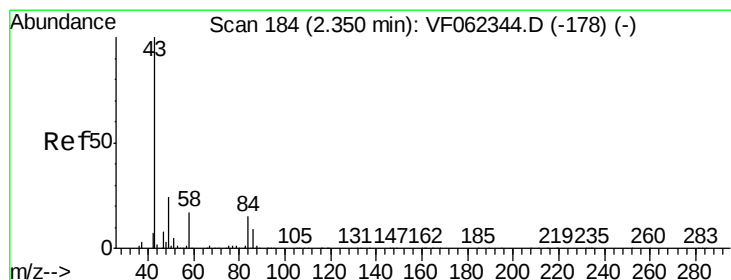
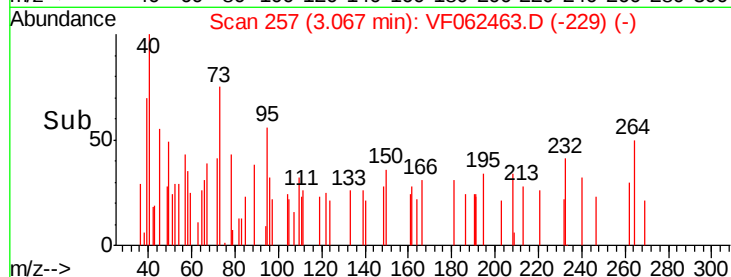
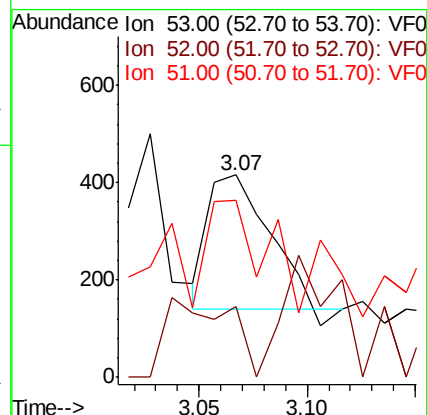
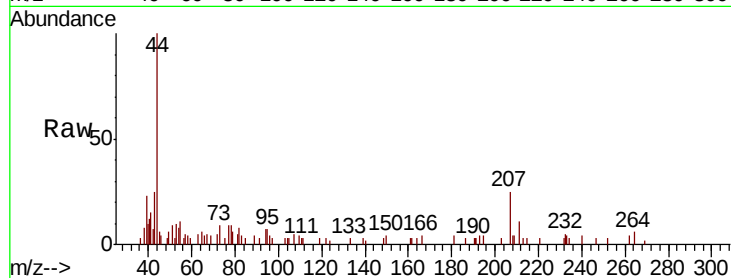




#15
 Acrylonitrile
 Concen: 1.701 ug/l
 RT: 3.07 min Scan# 257
 Delta R.T. -0.02 min
 Lab File: VF062463.D
 Acq: 11 May 2019 16:40

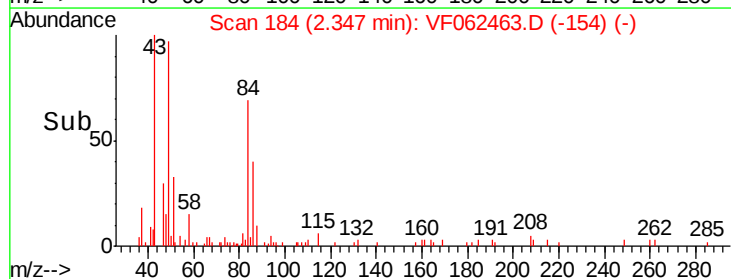
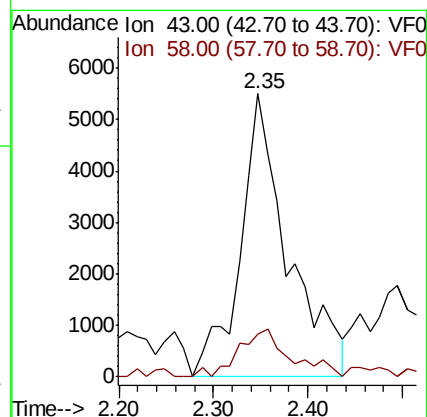
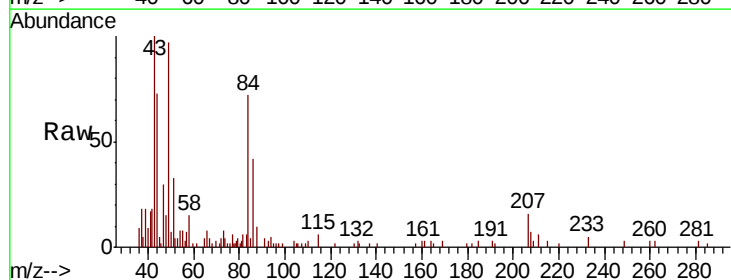
Instrument :
 MSVOA_F
 ClientSampleID :
 B-5

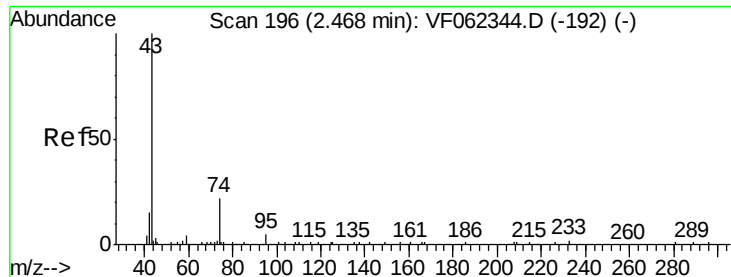
Tot Ion: 53 Resp: 538
 Ion Ratio Lower Upper
 53 100
 52 0.0 77.2 115.8#
 51 83.8 40.6 61.0#



#16
 Acetone
 Concen: 32.342 ug/l
 RT: 2.35 min Scan# 184
 Delta R.T. -0.00 min
 Lab File: VF062463.D
 Acq: 11 May 2019 16:40

Tgt Ion: 43 Resp: 19331
 Ion Ratio Lower Upper
 43 100
 58 15.1 13.1 19.7

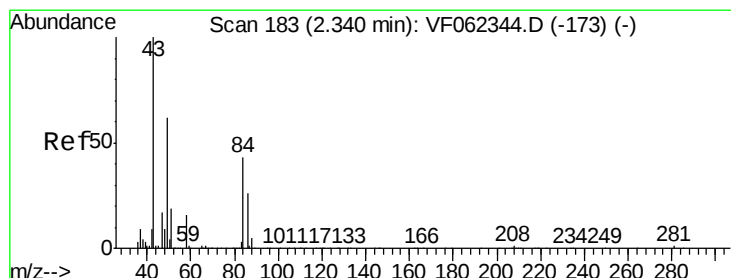
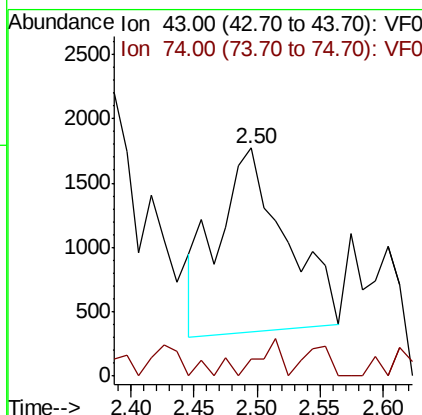
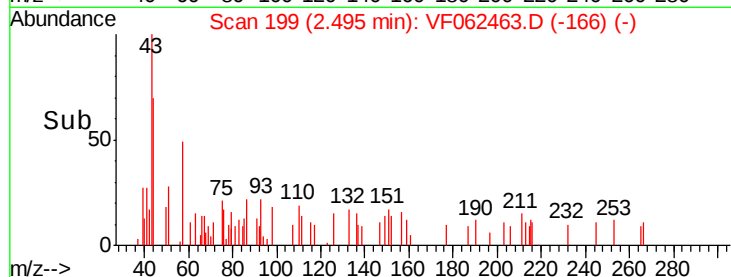
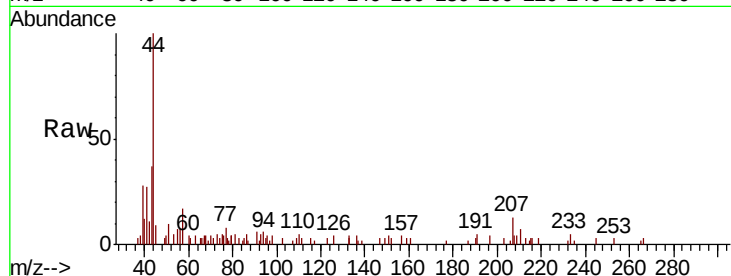




#18
Methyl Acetate
Concen: 1.883 ug/l
RT: 2.50 min Scan# 199
Delta R.T. 0.03 min
Lab File: VF062463.D
Acq: 11 May 2019 16:40

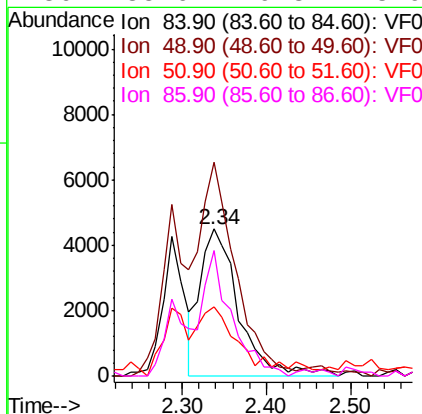
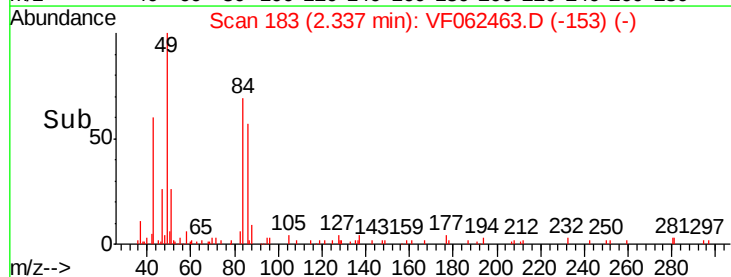
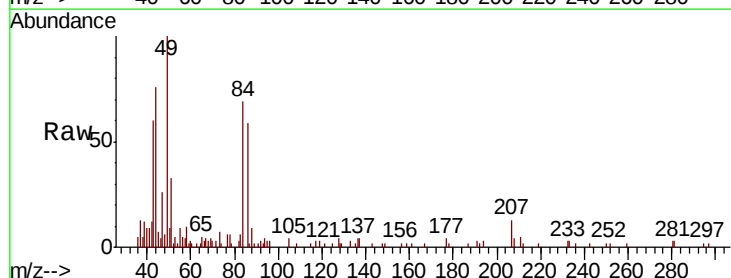
Instrument :
MSVOA_F
ClientSampleId :
B-5

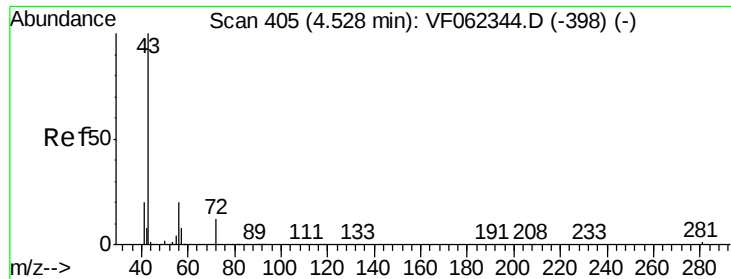
Tot Ion: 43 Resp: 5338
Ion Ratio Lower Upper
43 100
74 6.2 15.0 22.4#



#20
Methylene Chloride
Concen: 6.560 ug/l
RT: 2.34 min Scan# 183
Delta R.T. -0.00 min
Lab File: VF062463.D
Acq: 11 May 2019 16:40

Tgt Ion: 84 Resp: 14186
Ion Ratio Lower Upper
84 100
49 142.4 117.5 176.3
51 42.7 37.0 55.4
86 85.6 49.3 73.9#





#25

2-Butanone

Concen: 1.637 ug/l

RT: 4.53 min Scan# 405

Delta R.T. -0.00 min

Lab File: VF062463.D

Acq: 11 May 2019 16:40

Instrument :

MSVOA_F

ClientSampleId :

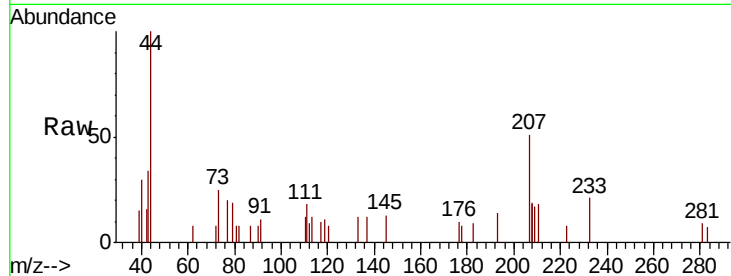
B-5

Tot Ion: 43 Resp: 1229

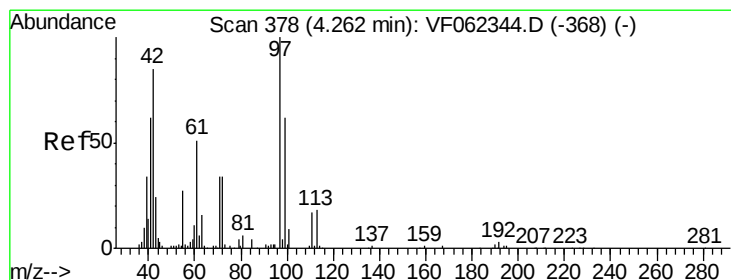
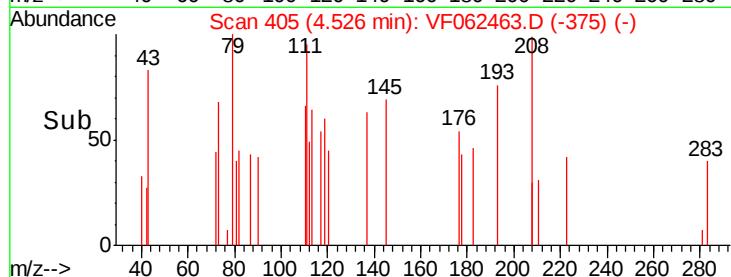
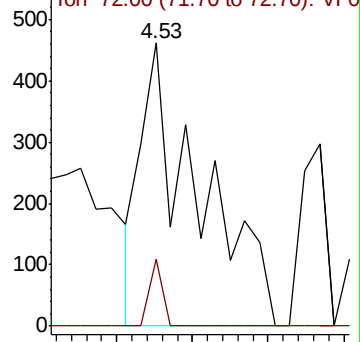
Ion Ratio Lower Upper

43 100

72 23.8 14.2 21.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0



#29

Tetrahydrofuran

Concen: 1.739 ug/l

RT: 4.27 min Scan# 379

Delta R.T. 0.01 min

Lab File: VF062463.D

Acq: 11 May 2019 16:40

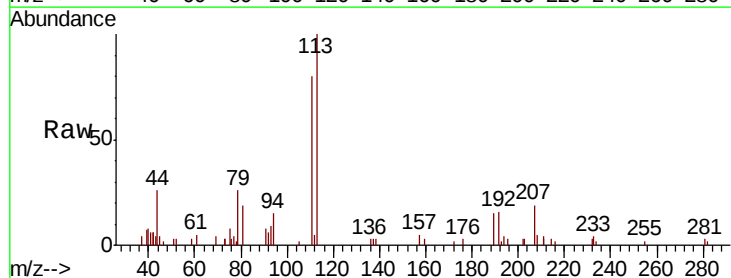
Tgt Ion: 42 Resp: 600

Ion Ratio Lower Upper

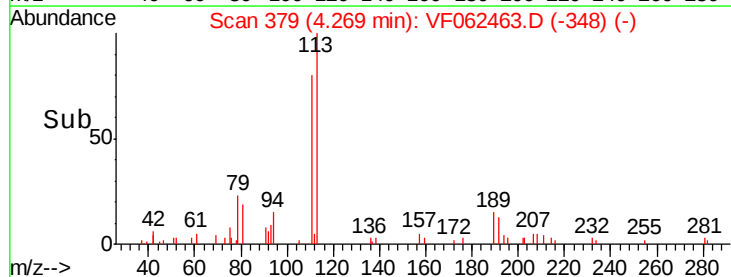
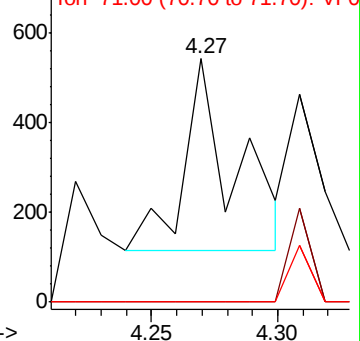
42 100

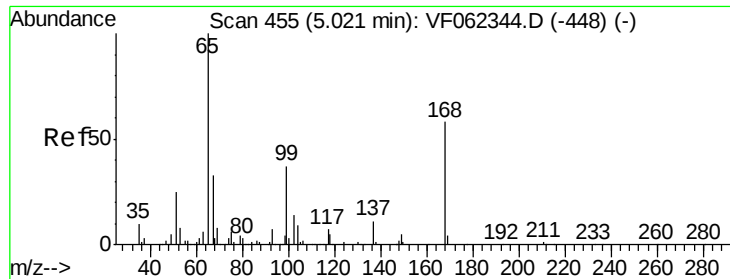
72 0.0 31.4 47.0#

71 0.0 31.7 47.5#



Abundance Ion 42.00 (41.70 to 42.70): VF0

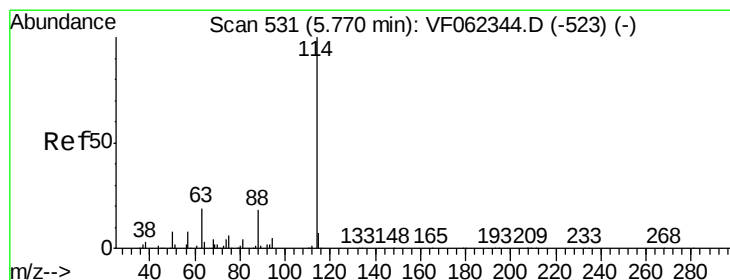
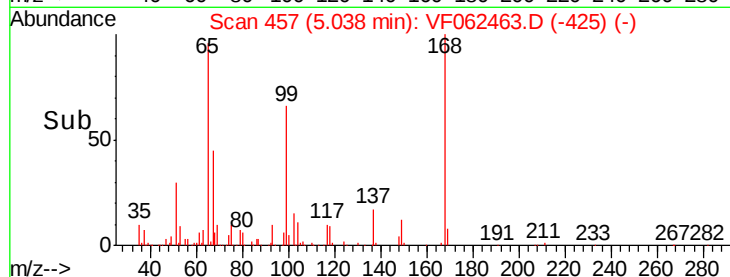
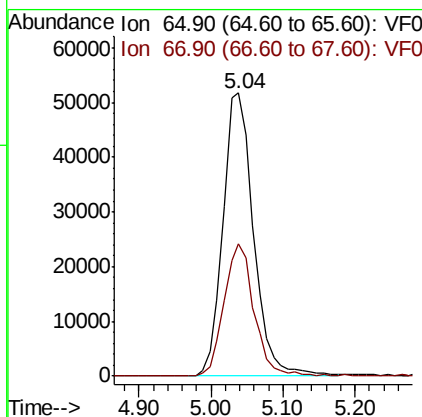
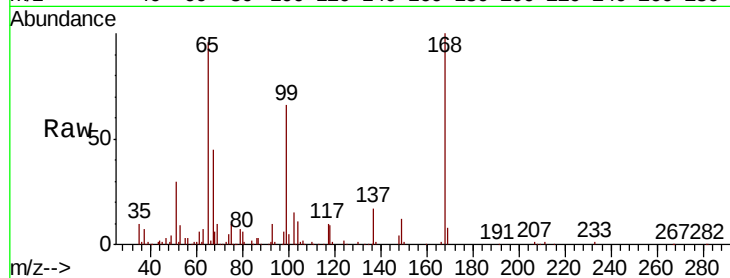




#33
 1,2-Dichloroethane-d4
 Concen: 51.380 ug/l
 RT: 5.04 min Scan# 457
 Delta R.T. 0.02 min
 Lab File: VF062463.D
 Acq: 11 May 2019 16:40

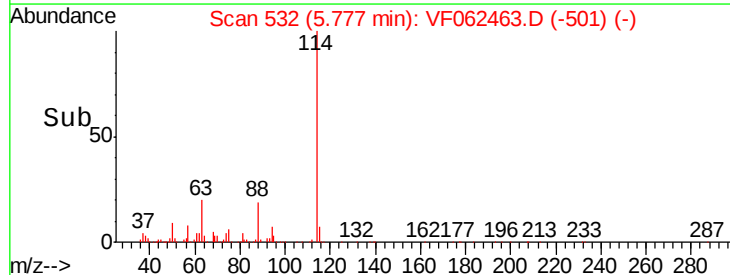
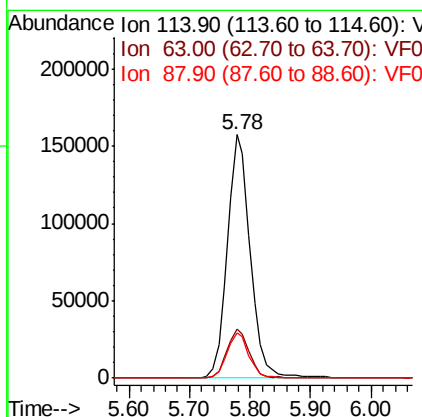
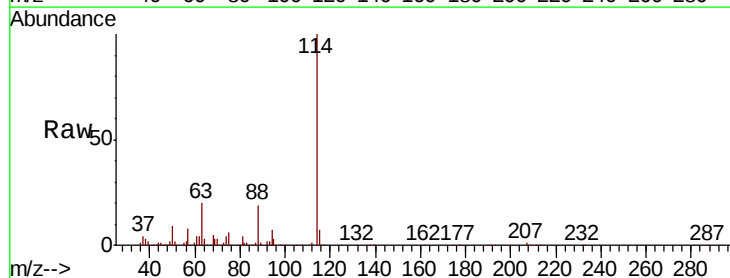
Instrument :
 MSVOA_F
 ClientSampleId :
 B-5

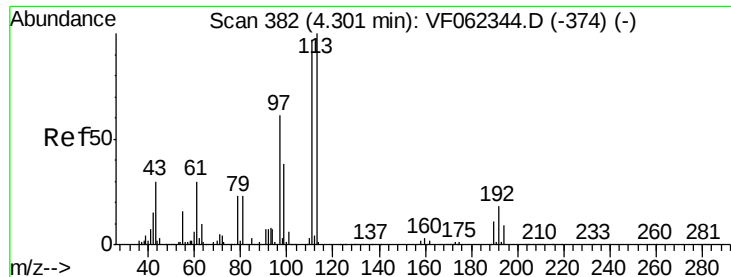
Tot Ion: 65 Resp: 151811
 Ion Ratio Lower Upper
 65 100
 67 46.1 0.0 85.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.78 min Scan# 532
 Delta R.T. 0.01 min
 Lab File: VF062463.D
 Acq: 11 May 2019 16:40

Tgt Ion: 114 Resp: 411890
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 37.4
 88 18.7 0.0 36.4

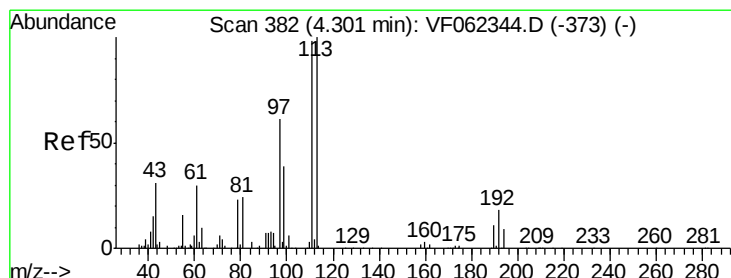
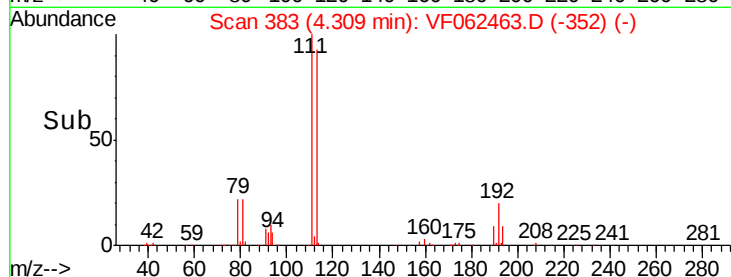
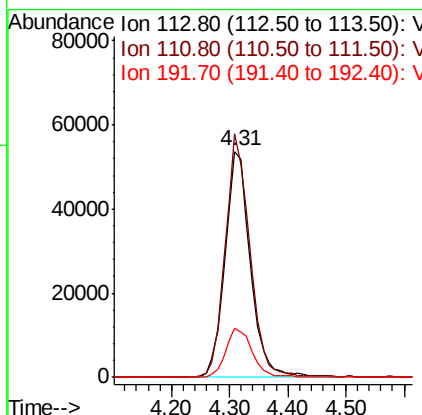
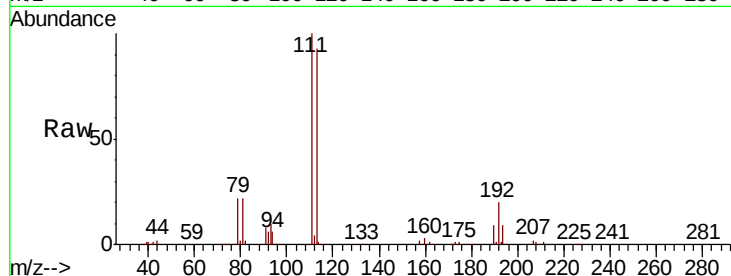




#35
 Dibromofluoromethane
 Concen: 49.664 ug/l
 RT: 4.31 min Scan# 383
 Delta R.T. 0.01 min
 Lab File: VF062463.D
 Acq: 11 May 2019 16:40

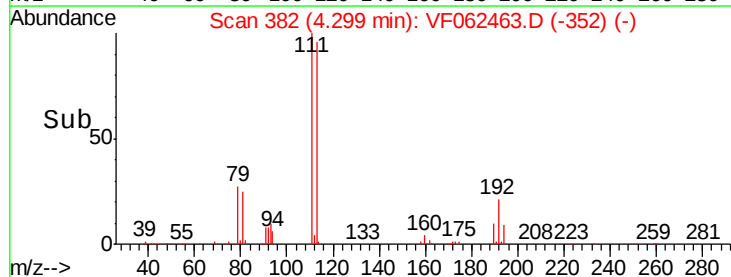
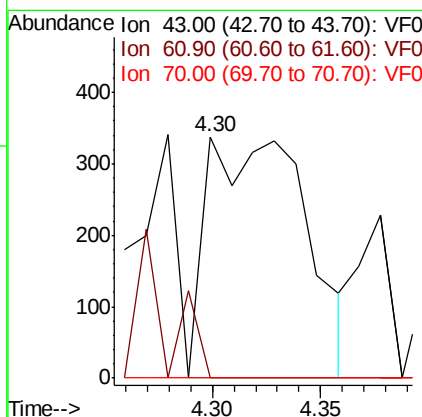
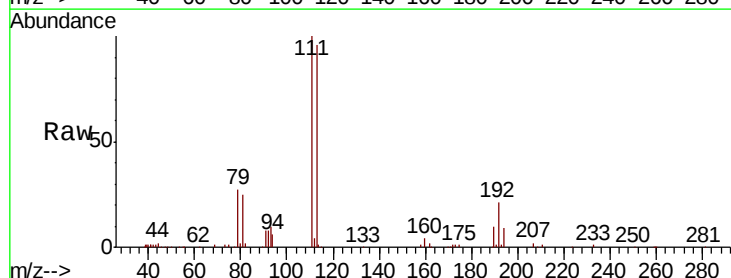
Instrument :
 MSVOA_F
 ClientSampleId :
 B-5

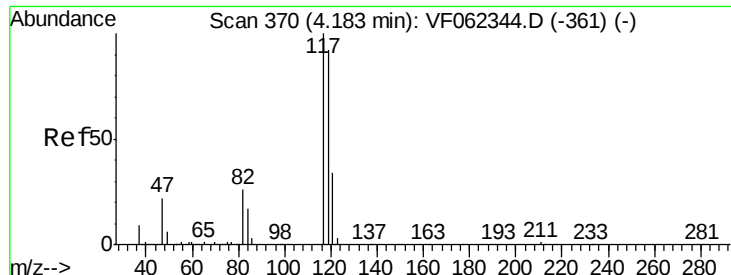
Tot Ion	Ratio	Lower	Upper
113	100		
111	104.3	79.4	119.0
192	22.6	16.0	24.0



#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 4.30 min Scan# 382
 Delta R.T. -0.00 min
 Lab File: VF062463.D
 Acq: 11 May 2019 16:40

Tgt 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: 4.11 min Scan# 363

Delta R.T. -0.07 min

Lab File: VF062463.D

Acq: 11 May 2019 16:40

Instrument :

MSVOA_F

ClientSampleId :

B-5

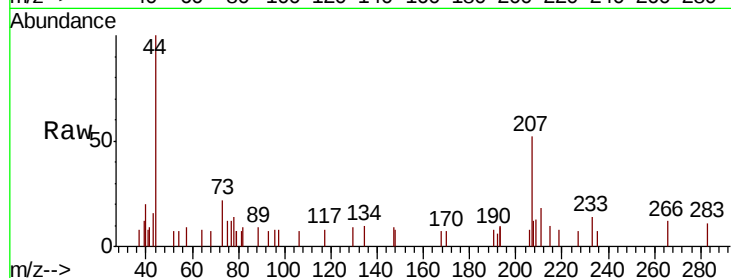
Tot Ion:117 Resp: 75

Ion Ratio Lower Upper

117 100

119 0.0 73.4 110.2#

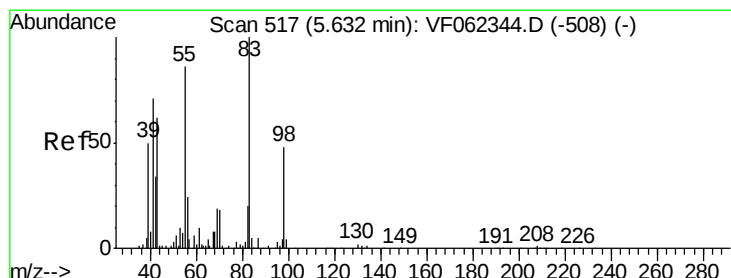
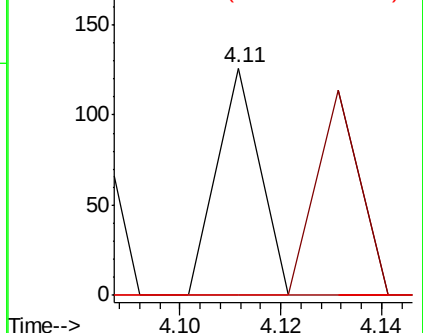
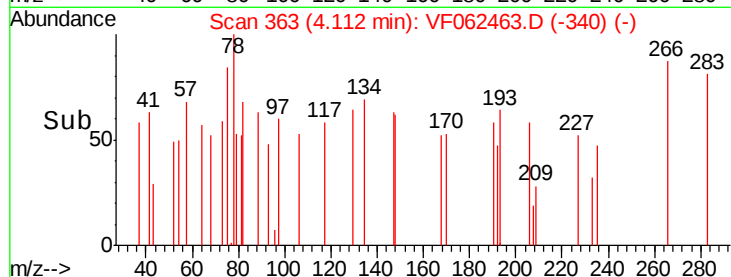
121 0.0 27.4 41.0#



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: 1.861 ug/l

RT: 5.79 min Scan# 533

Delta R.T. 0.16 min

Lab File: VF062463.D

Acq: 11 May 2019 16:40

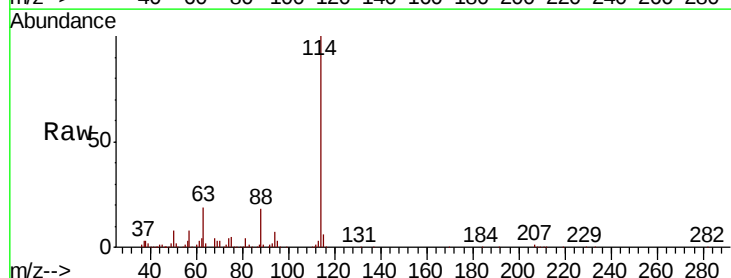
Tgt Ion: 83 Resp: 6604

Ion Ratio Lower Upper

83 100

55 33.1 69.0 103.6#

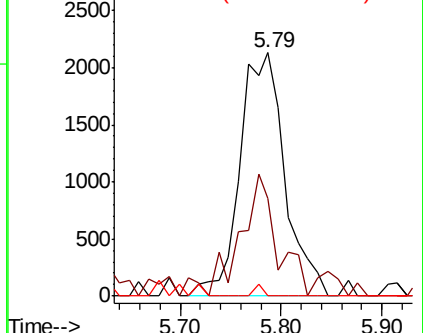
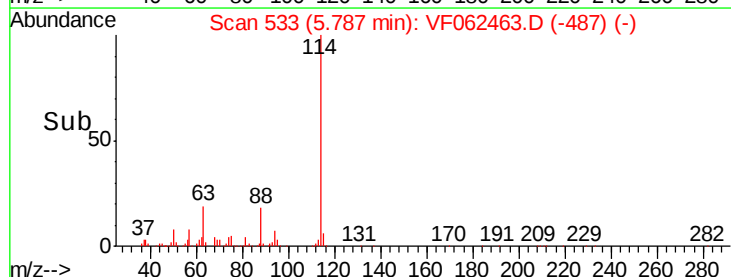
98 0.0 38.6 58.0#

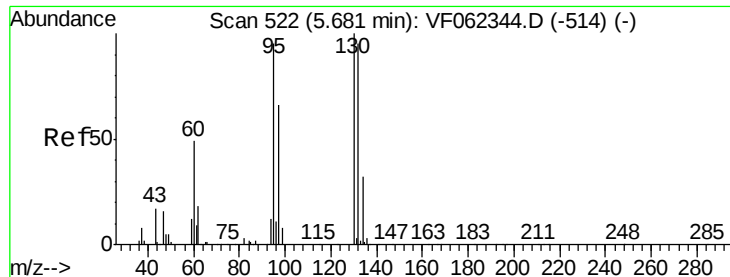


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#44

Trichloroethene

Concen: 3.340 ug/l

RT: 5.69 min Scan# 523

Delta R.T. 0.01 min

Lab File: VF062463.D

Acq: 11 May 2019 16:40

Instrument :

MSVOA_F

ClientSampleId :

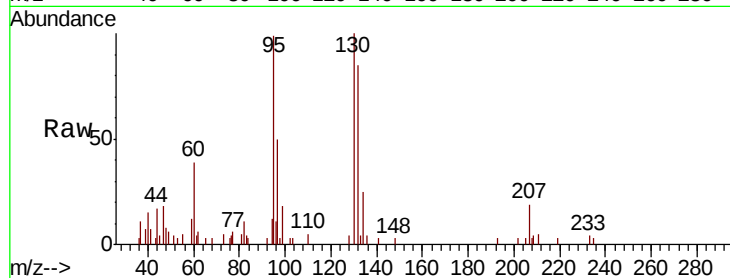
B-5

Tot Ion:130 Resp: 9560

Ion Ratio Lower Upper

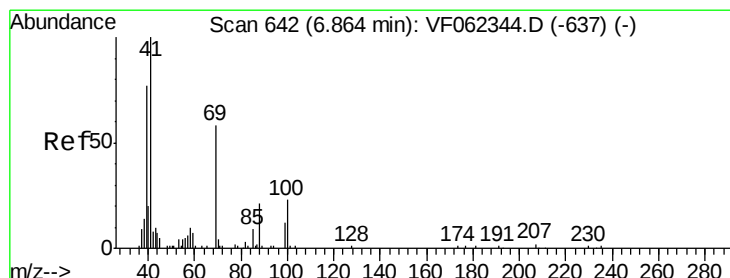
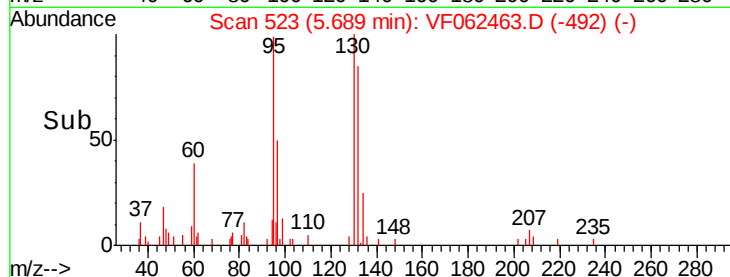
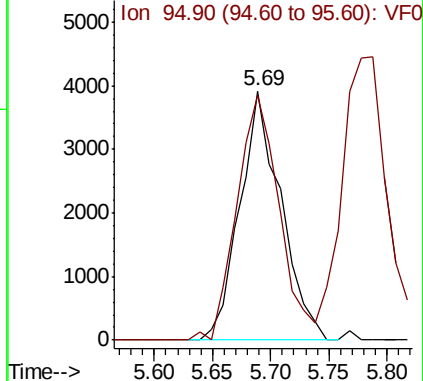
130 100

95 98.5 0.0 189.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VF0



#49

1,4-Dioxane

Concen: Below Cal

RT: 6.90 min Scan# 646

Delta R.T. 0.04 min

Lab File: VF062463.D

Acq: 11 May 2019 16:40

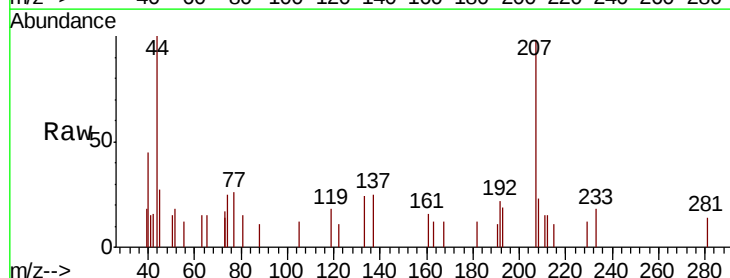
Tgt Ion: 88 Resp: 61

Ion Ratio Lower Upper

88 100

43 142.6 55.6 83.4#

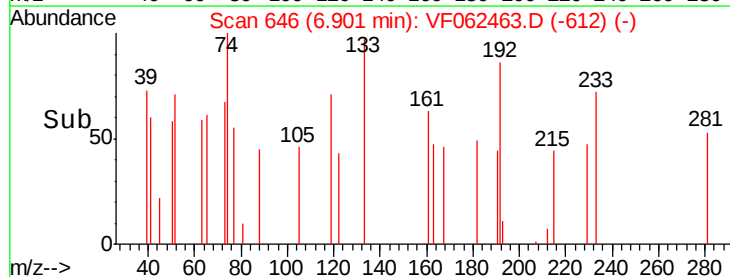
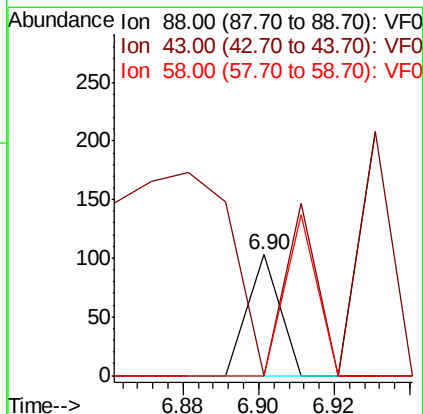
58 132.8 52.8 79.2#

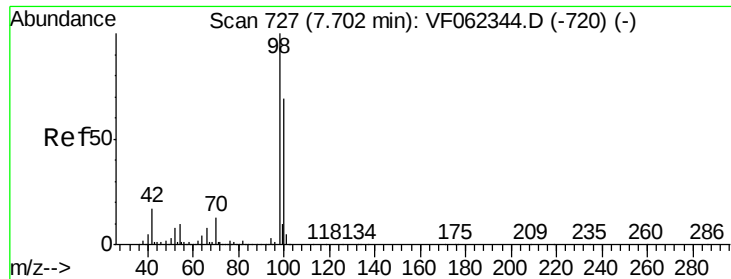


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 42.730 ug/l

RT: 7.71 min Scan# 728

Delta R.T. 0.01 min

Lab File: VF062463.D

Acq: 11 May 2019 16:40

Instrument :

MSVOA_F

ClientSampleId :

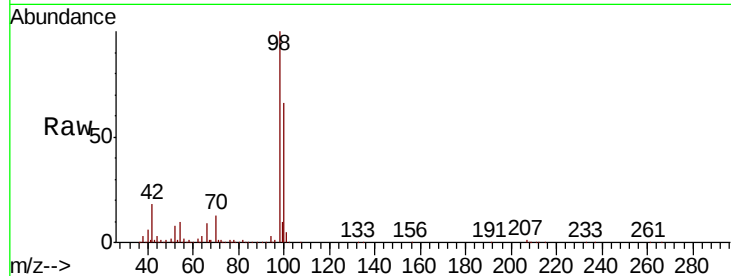
B-5

Tot Ion: 98 Resp: 339417

Ion Ratio Lower Upper

98 100

100 65.6 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.71

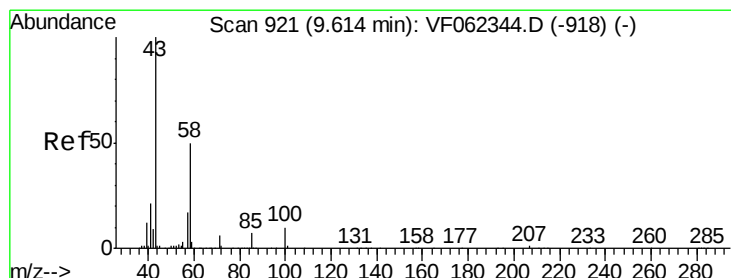
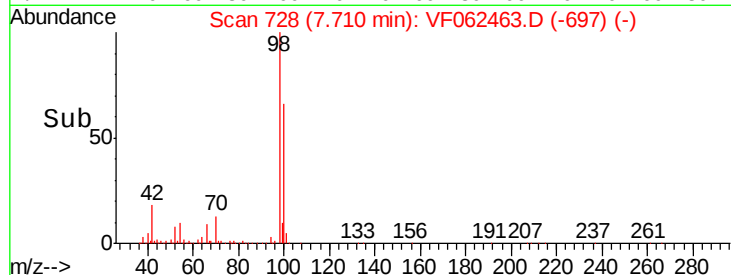
150000

100000

50000

0

Time-->



#59

2-Hexanone

Concen: 2.137 ug/l

RT: 9.60 min Scan# 920

Delta R.T. -0.01 min

Lab File: VF062463.D

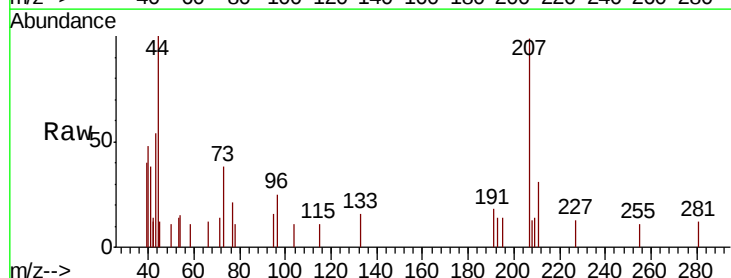
Acq: 11 May 2019 16:40

Tgt Ion: 43 Resp: 1802

Ion Ratio Lower Upper

43 100

58 8.2 24.3 73.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

600

500

400

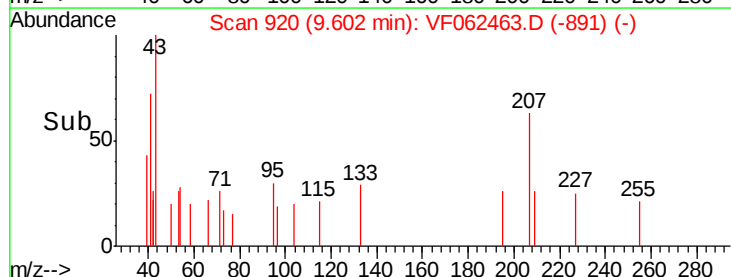
300

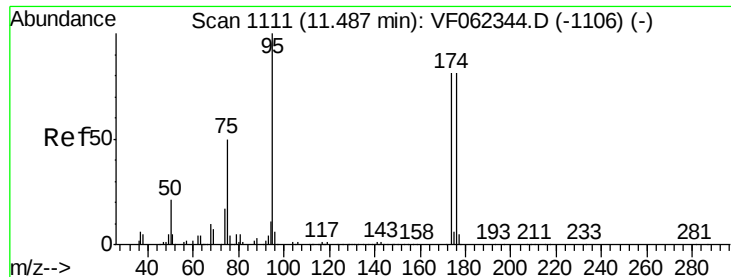
200

100

0

Time-->





#62

4-Bromofluorobenzene

Concen: 38.117 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VF062463.D

Acq: 11 May 2019 16:40

Instrument :

MSVOA_F

ClientSampled :

B-5

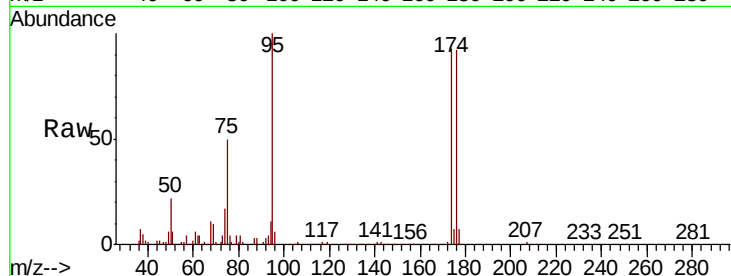
Tot Ion: 95 Resp: 136599

Ion Ratio Lower Upper

95 100

174 100.2 0.0 191.8

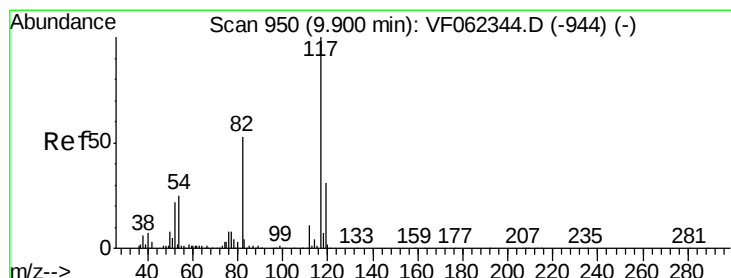
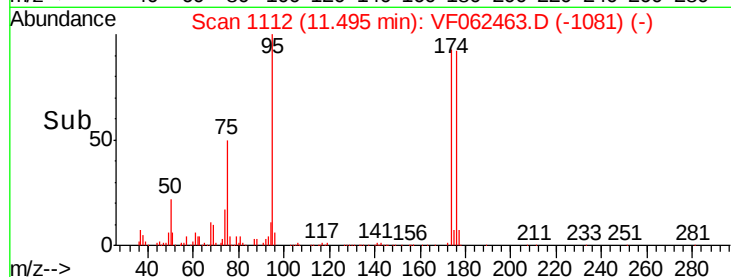
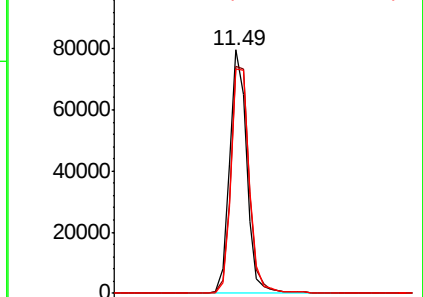
176 99.2 0.0 193.2



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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.92 min Scan# 952

Delta R.T. 0.02 min

Lab File: VF062463.D

Acq: 11 May 2019 16:40

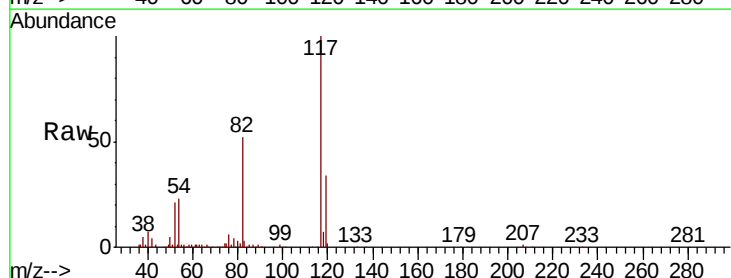
Tgt Ion: 117 Resp: 319687

Ion Ratio Lower Upper

117 100

82 51.9 42.2 63.2

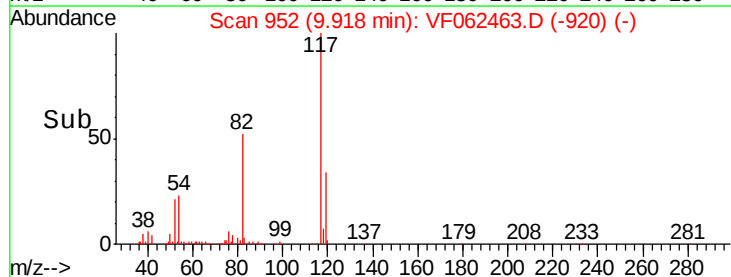
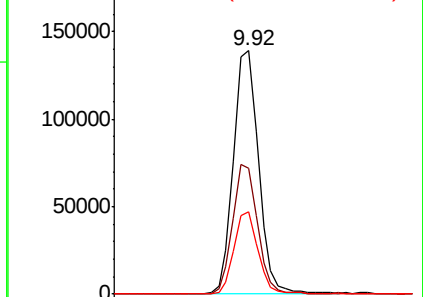
119 33.6 25.0 37.4

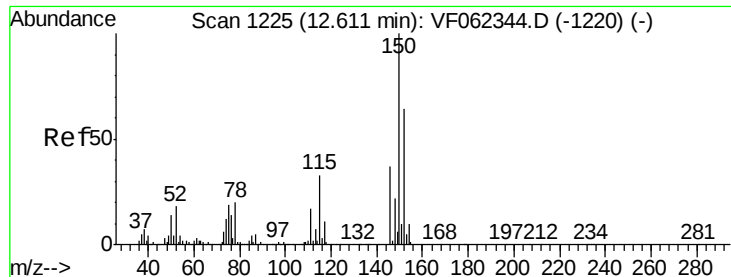


Abundance Ion 116.90 (116.60 to 117.60): V

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. -0.00 min
 Lab File: VF062463.D
 Acq: 11 May 2019 16:40

Instrument :
 MSVOA_F
 ClientSampleId :
 B-5

Tot Ion	Ratio	Lower	Upper
152	100		
115	54.1	26.4	79.2
150	154.7	0.0	335.0

