

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051119\
 Data File : VF062460.D
 Acq On : 11 May 2019 15:16
 Operator : FY/SY
 Sample : K2719-20RE
 Misc : 5.49g/5mL/MSVOA F/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: May 12 03:46:55 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	275951	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.78	114	360956	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	243119	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	93655	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.04	65	141139	54.12	ug/l	0.02
Spiked Amount			Recovery	=	108.24%	
35) Dibromofluoromethane	4.31	113	150438	52.31	ug/l	0.00
Spiked Amount			Recovery	=	104.62%	
50) Toluene-d8	7.71	98	275630	39.60	ug/l	0.00
Spiked Amount			Recovery	=	79.20%	
62) 4-Bromofluorobenzene	11.49	95	94243	30.01	ug/l	0.00
Spiked Amount			Recovery	=	60.02%	

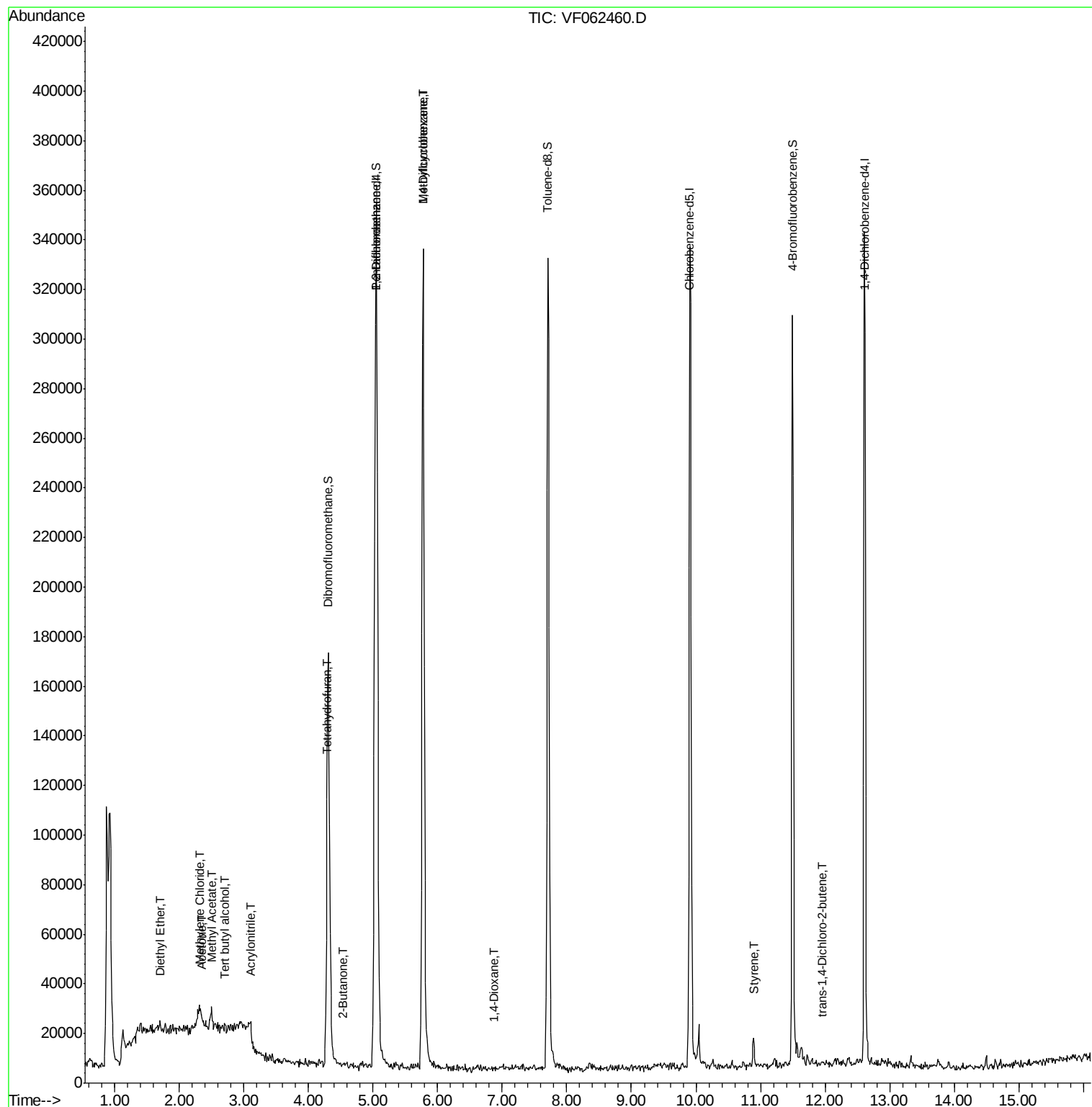
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.41	94	768	Below Cal	#	35
8) Diethyl Ether	1.71	74	978	1.483	ug/l	61
11) Tert butyl alcohol	2.69	59	762	5.170	ug/l #	1
13) Acrolein	2.11	56	486	Below Cal	#	13
15) Acrylonitrile	3.10	53	1261	4.517	ug/l #	75
16) Acetone	2.35	43	4554	8.632	ug/l #	80
18) Methyl Acetate	2.50	43	3990	1.083	ug/l #	69
20) Methylene Chloride	2.33	84	5936	3.110	ug/l #	76
25) 2-Butanone	4.53	43	795	1.200	ug/l #	60
29) Tetrahydrofuran	4.28	42	484	1.589	ug/l #	58
37) Ethyl Acetate	4.31	43	528	Below Cal	#	73
38) Carbon Tetrachloride	4.19	117	63	Below Cal	#	14
39) Methylcyclohexane	5.78	83	5360	1.724	ug/l #	31
49) 1,4-Dioxane	6.88	88	154	1.982	ug/l #	1
70) Styrene	10.89	104	5987	1.422	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.96	75	337	1.352	ug/l #	31

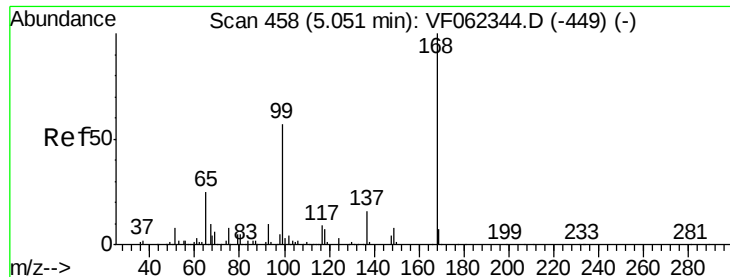
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 459

Delta R.T. 0.01 min

Lab File: VF062460.D

Acq: 11 May 2019 15:16

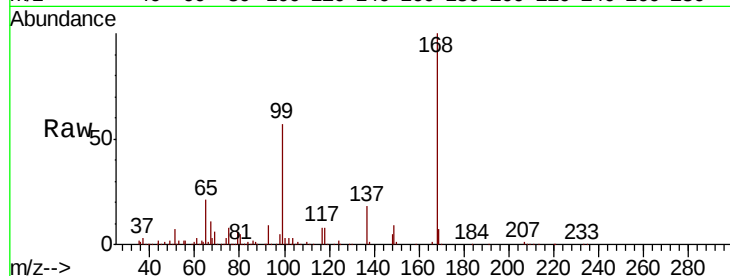
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 275951

Ion Ratio Lower Upper

168 100

99 56.6 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.06

100000

80000

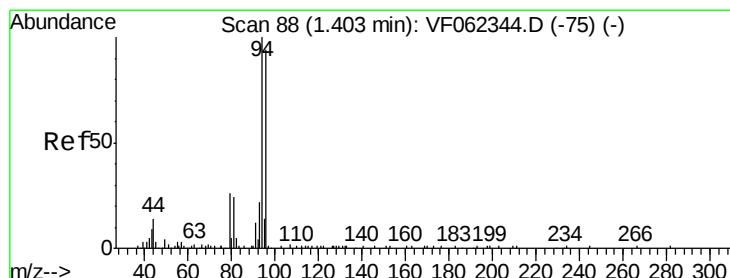
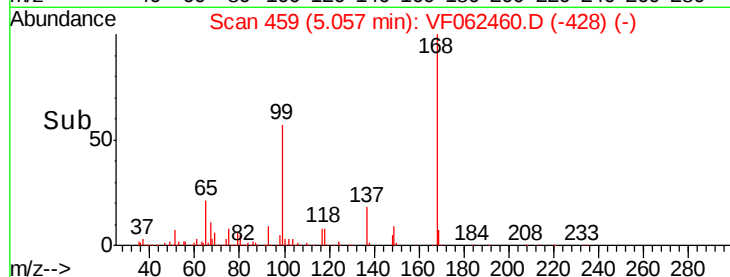
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.41 min Scan# 89

Delta R.T. 0.01 min

Lab File: VF062460.D

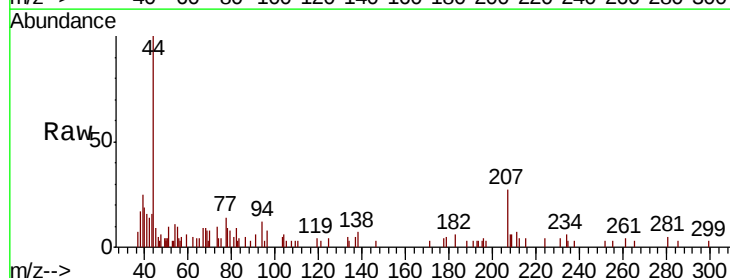
Acq: 11 May 2019 15:16

Tgt Ion: 94 Resp: 768

Ion Ratio Lower Upper

94 100

96 31.3 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

500

400

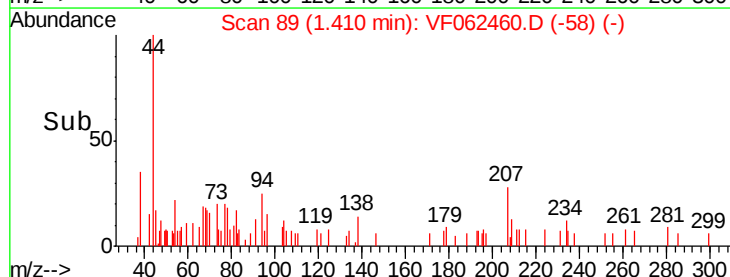
300

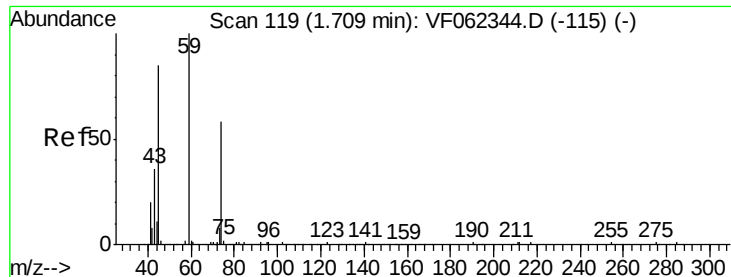
200

100

0

Time-->





#8

Diethyl Ether

Concen: 1.483 ug/l

RT: 1.71 min Scan# 119

Delta R.T. -0.00 min

Lab File: VF062460.D

Acq: 11 May 2019 15:16

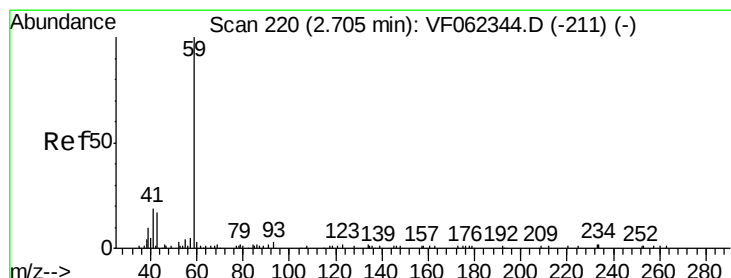
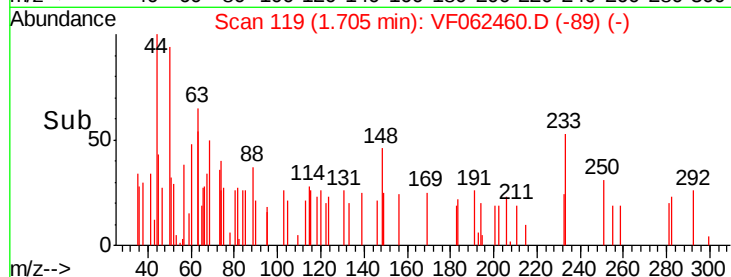
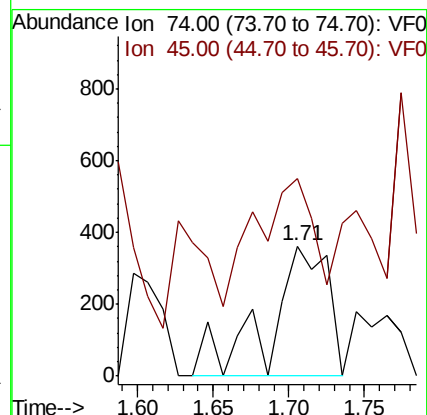
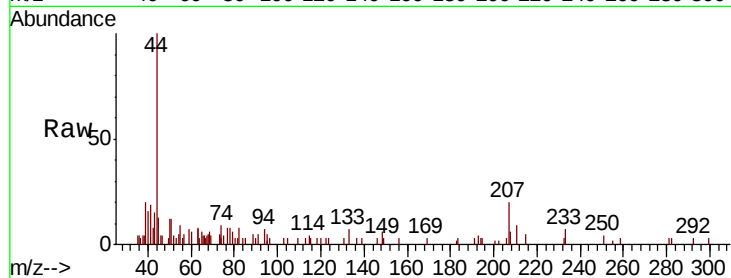
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 74 Resp: 978

Ion Ratio Lower Upper

74 100

45 99.3 73.9 221.6



#11

Tert butyl alcohol

Concen: 5.170 ug/l

RT: 2.69 min Scan# 219

Delta R.T. -0.01 min

Lab File: VF062460.D

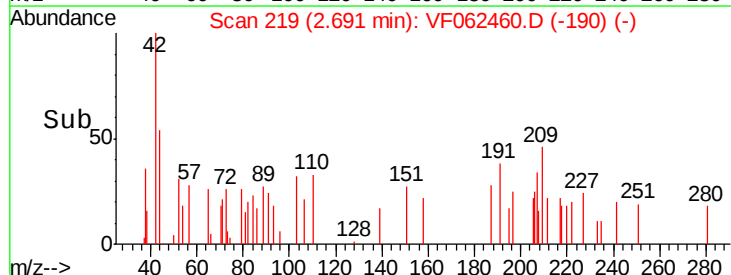
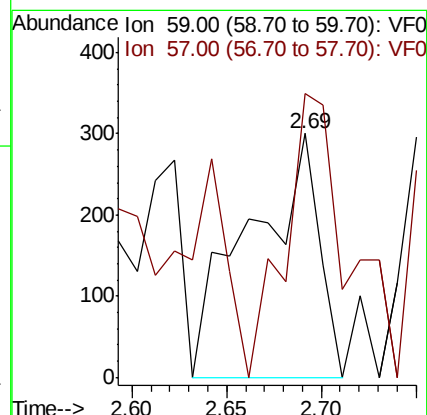
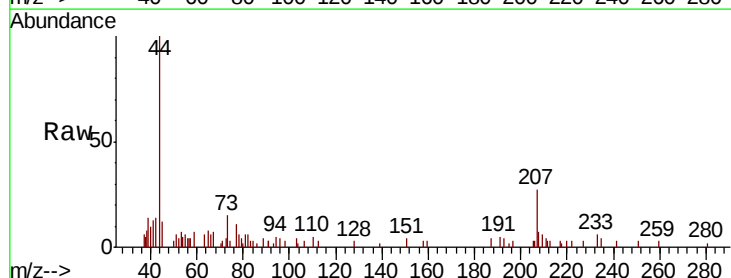
Acq: 11 May 2019 15:16

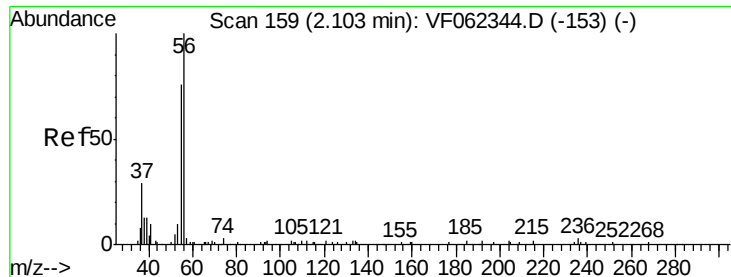
Tgt Ion: 59 Resp: 762

Ion Ratio Lower Upper

59 100

57 104.6 9.3 13.9#





#13

Acrolein

Concen: Below Cal

RT: 2.11 min Scan# 160

Delta R.T. 0.01 min

Lab File: VF062460.D

Acq: 11 May 2019 15:16

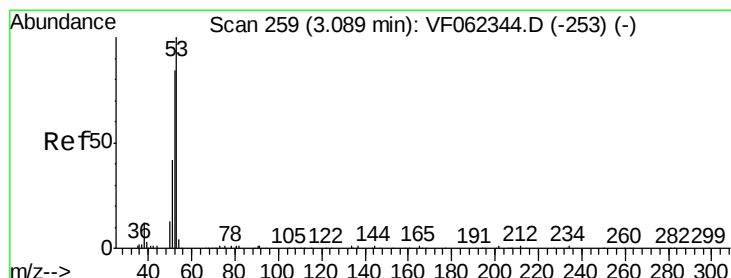
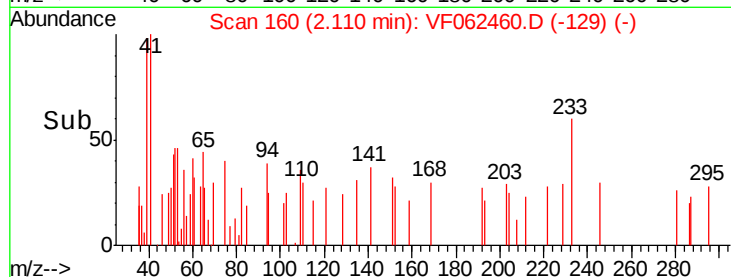
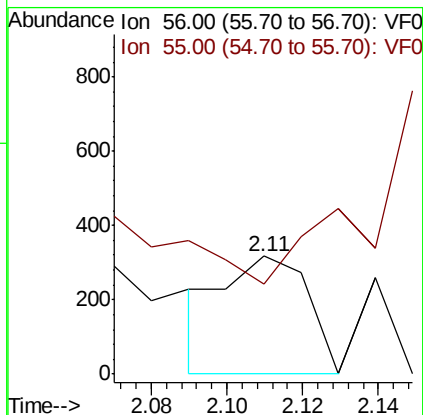
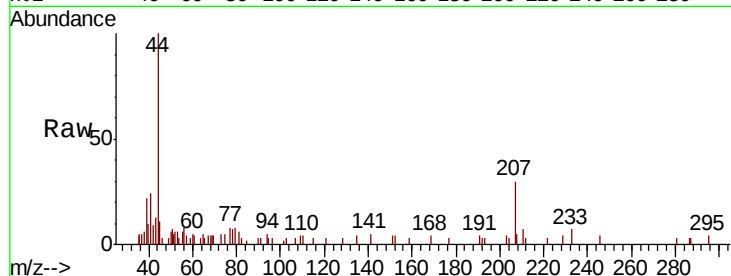
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 486

Ion Ratio Lower Upper

56 100

55 0.0 58.4 87.6#



#15

Acrylonitrile

Concen: 4.517 ug/l

RT: 3.10 min Scan# 260

Delta R.T. 0.01 min

Lab File: VF062460.D

Acq: 11 May 2019 15:16

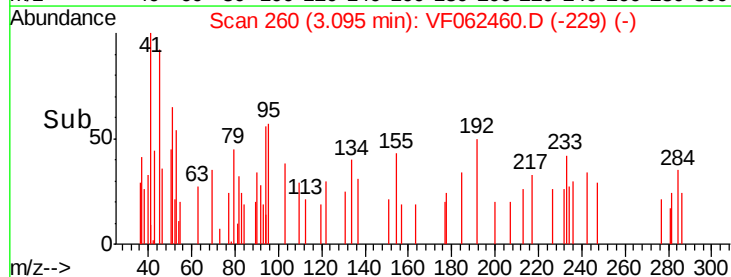
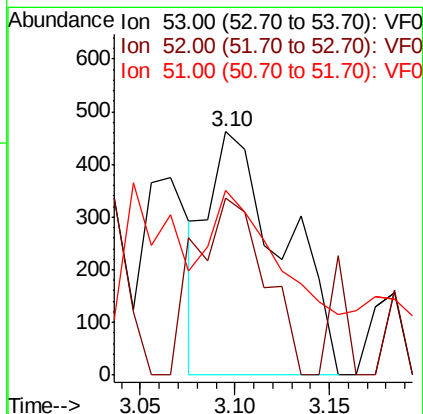
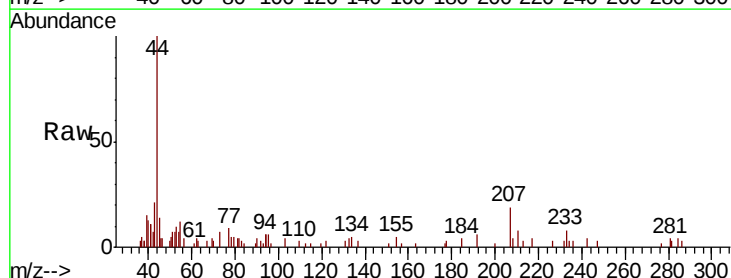
Tgt Ion: 53 Resp: 1261

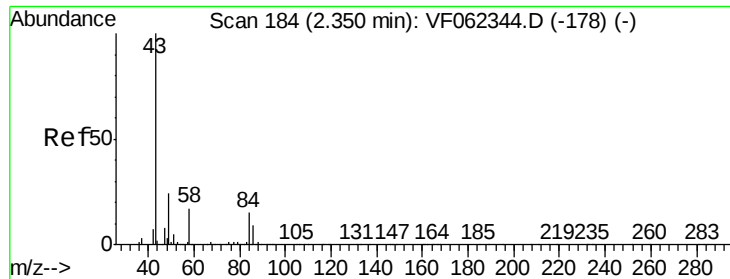
Ion Ratio Lower Upper

53 100

52 68.4 77.2 115.8#

51 62.9 40.6 61.0#





#16

Acetone

Concen: 8.632 ug/l

RT: 2.35 min Scan# 184

Delta R.T. -0.00 min

Lab File: VF062460.D

Acq: 11 May 2019 15:16

Instrument :

MSVOA_F

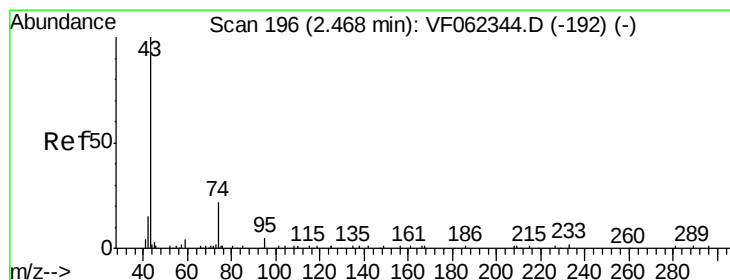
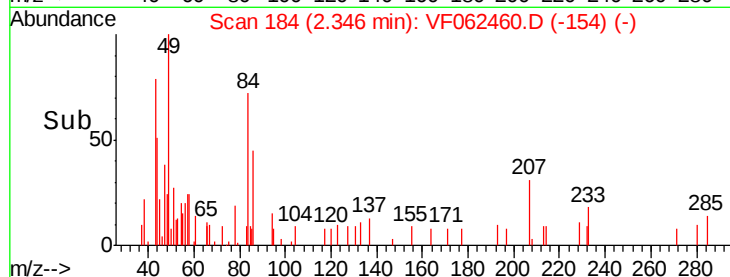
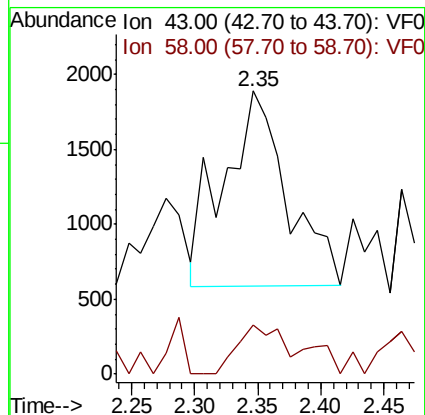
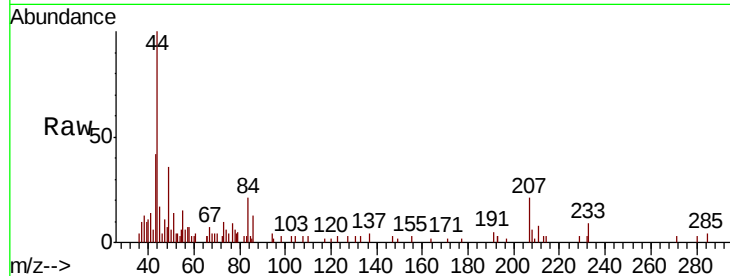
ClientSampleId :

Tot Ion: 43 Resp: 4554

Ion Ratio Lower Upper

43 100

58 25.0 13.1 19.7#



#18

Methyl Acetate

Concen: 1.083 ug/l

RT: 2.50 min Scan# 200

Delta R.T. 0.04 min

Lab File: VF062460.D

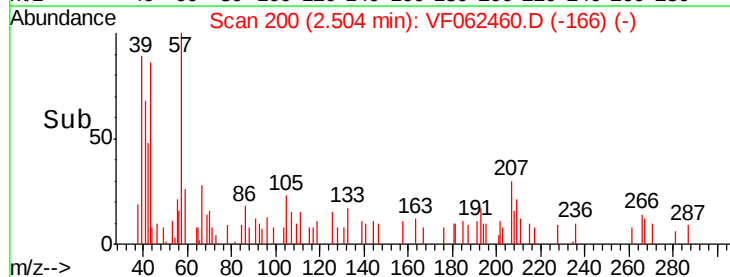
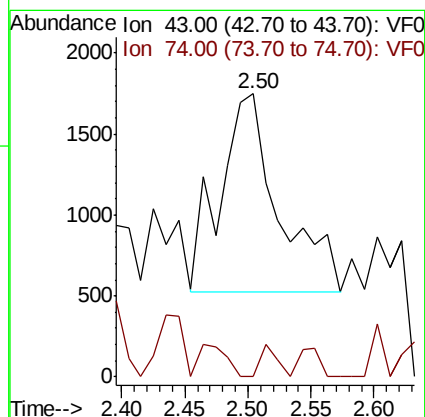
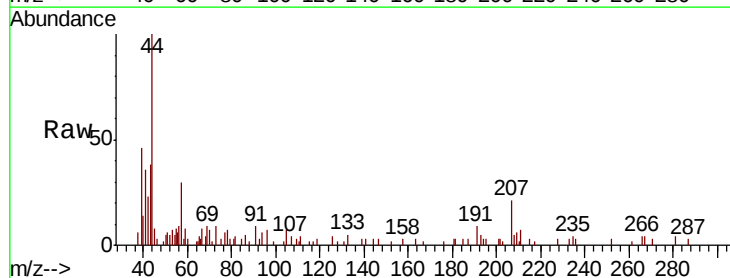
Acq: 11 May 2019 15:16

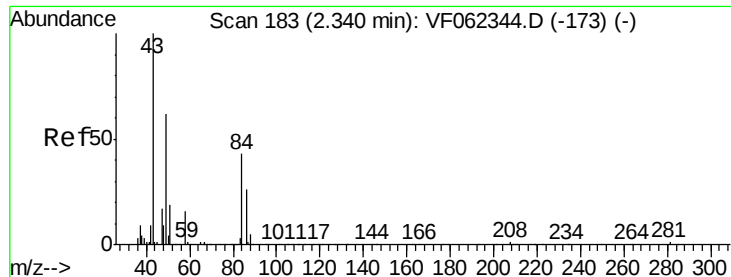
Tgt Ion: 43 Resp: 3990

Ion Ratio Lower Upper

43 100

74 4.6 15.0 22.4#

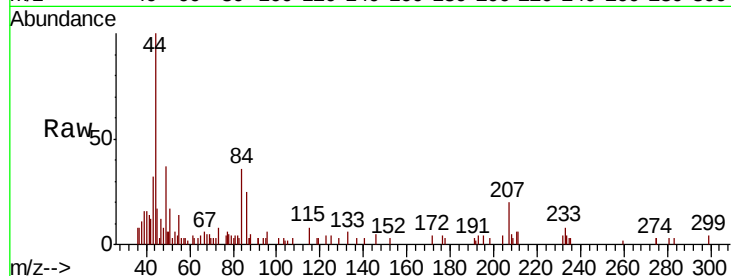




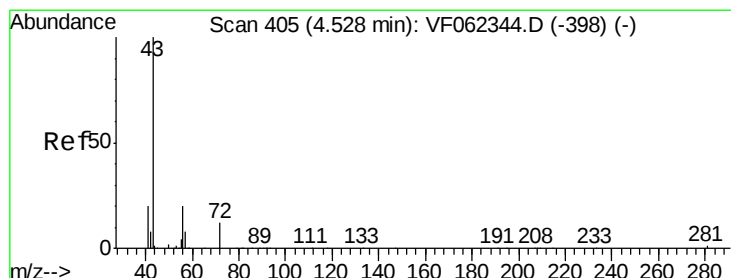
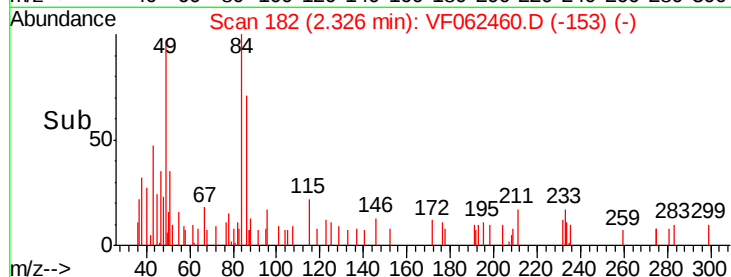
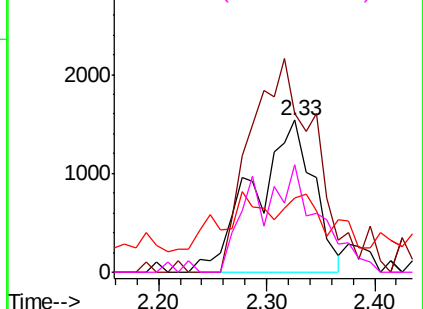
#20
Methvlene Chloride
Concen: 3.110 ug/l
RT: 2.33 min Scan# 182
Delta R.T. -0.01 min
Lab File: VF062460.D
Acq: 11 May 2019 15:16

Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 84 Resp: 5936
Ion Ratio Lower Upper
84 100
49 104.2 117.5 176.3#
51 33.9 37.0 55.4#
86 63.4 49.3 73.9

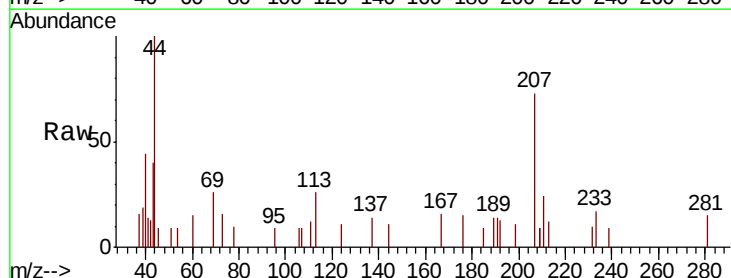


Abundance Ion 83.90 (83.60 to 84.60): VF0
Ion 48.90 (48.60 to 49.60): VF0
Ion 50.90 (50.60 to 51.60): VF0
Ion 85.90 (85.60 to 86.60): VF0

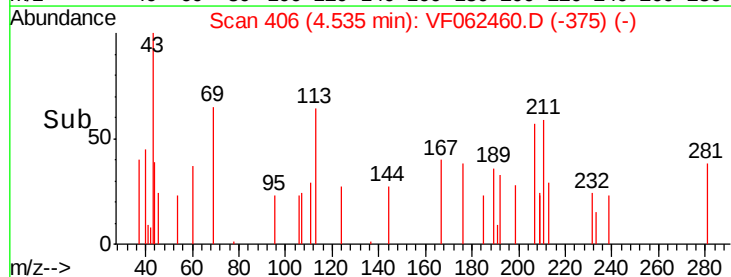
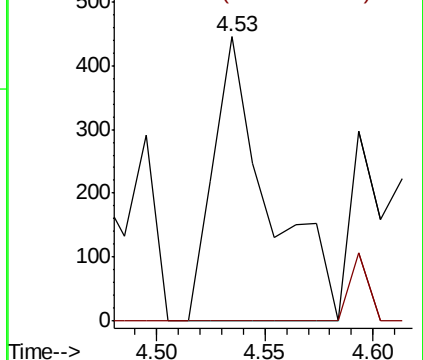


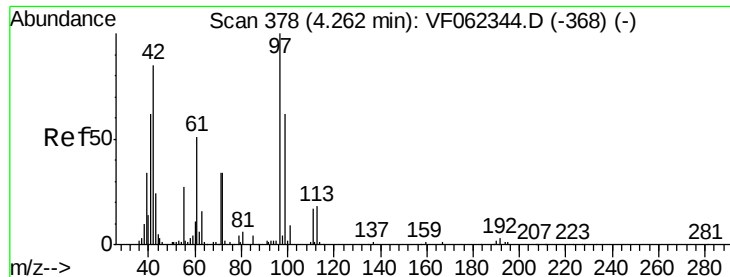
#25
2-Butanone
Concen: 1.200 ug/l
RT: 4.53 min Scan# 406
Delta R.T. 0.01 min
Lab File: VF062460.D
Acq: 11 May 2019 15:16

Tgt Ion: 43 Resp: 795
Ion Ratio Lower Upper
43 100
72 0.0 14.2 21.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 1.589 ug/l

RT: 4.28 min Scan# 380

Delta R.T. 0.02 min

Lab File: VF062460.D

Acq: 11 May 2019 15:16

Instrument :

MSVOA_F

ClientSampleId :

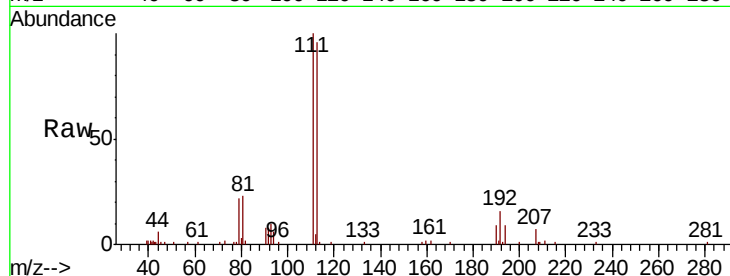
Tot Ion: 42 Resp: 484

Ion Ratio Lower Upper

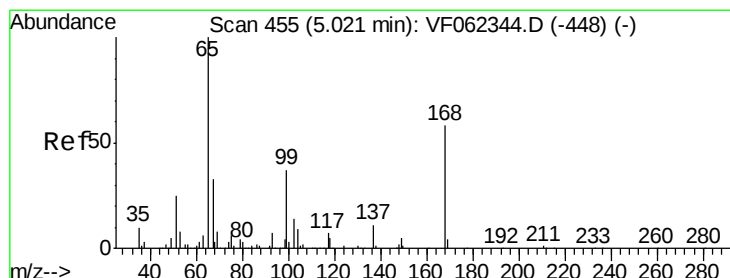
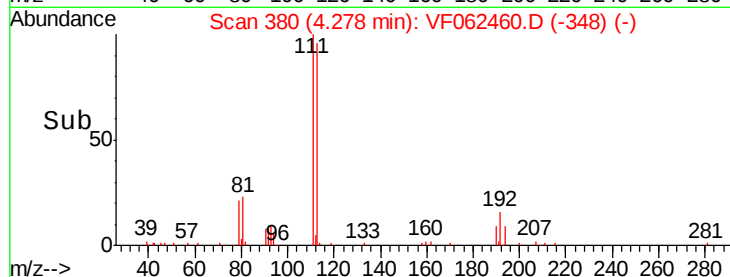
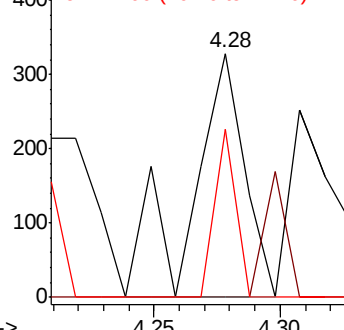
42 100

72 0.0 31.4 47.0#

71 27.7 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: 54.121 ug/l

RT: 5.04 min Scan# 457

Delta R.T. 0.02 min

Lab File: VF062460.D

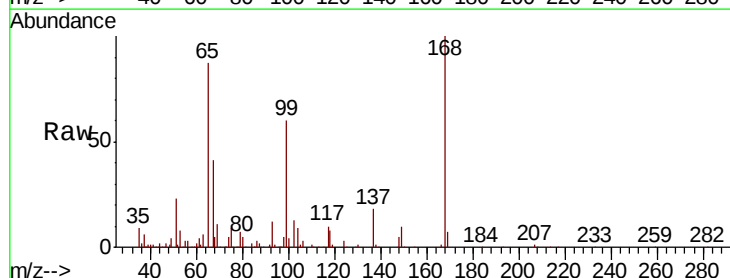
Acq: 11 May 2019 15:16

Tgt Ion: 65 Resp: 141139

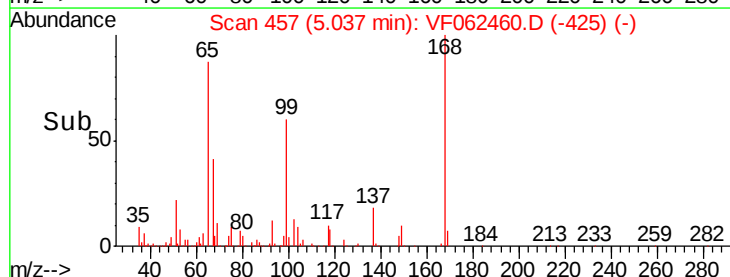
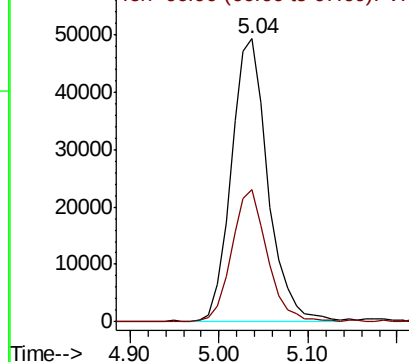
Ion Ratio Lower Upper

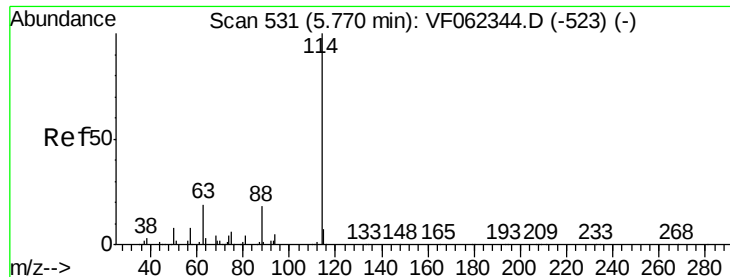
65 100

67 45.5 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: 5.78 min Scan# 532

Delta R.T. 0.01 min

Lab File: VF062460.D

Acq: 11 May 2019 15:16

Instrument :
MSVOA_F
ClientSampleId :

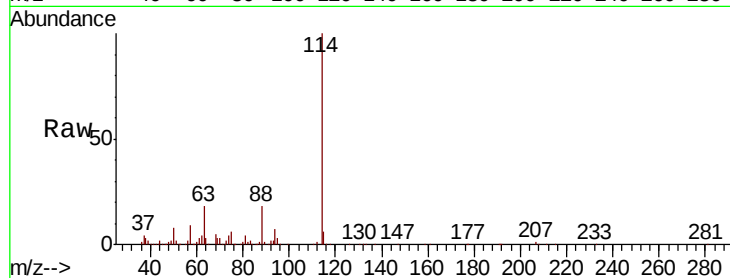
Tot Ion:114 Resp: 360956

Ion Ratio Lower Upper

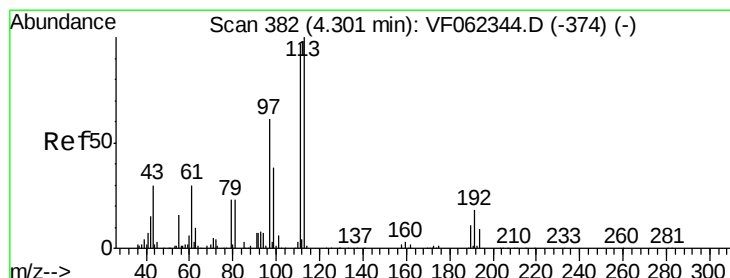
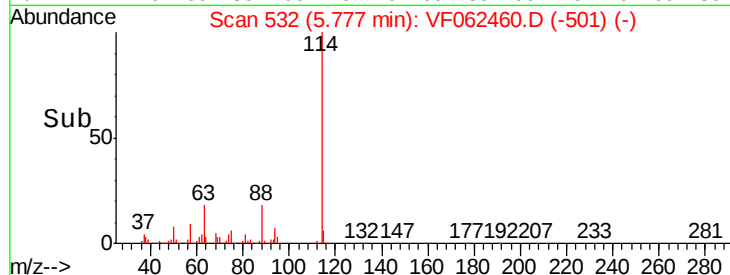
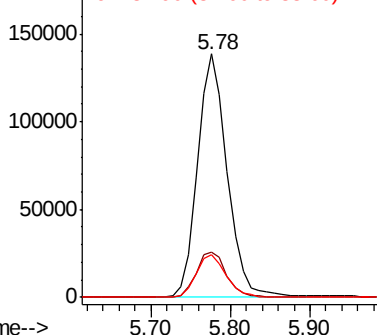
114 100

63 18.5 0.0 37.4

88 17.7 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: 52.314 ug/l

RT: 4.31 min Scan# 383

Delta R.T. 0.01 min

Lab File: VF062460.D

Acq: 11 May 2019 15:16

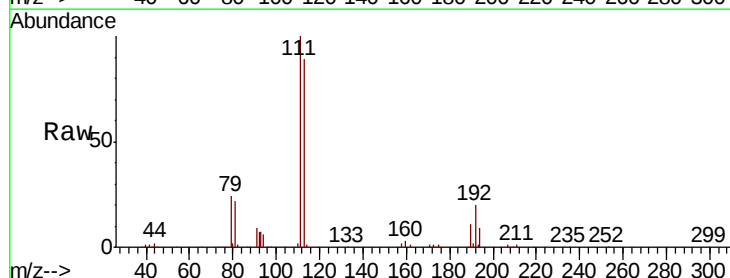
Tgt Ion:113 Resp: 150438

Ion Ratio Lower Upper

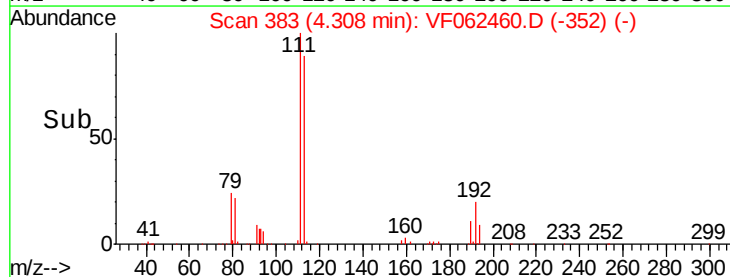
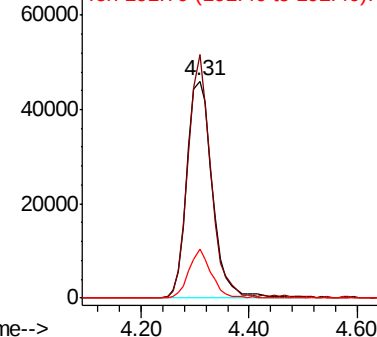
113 100

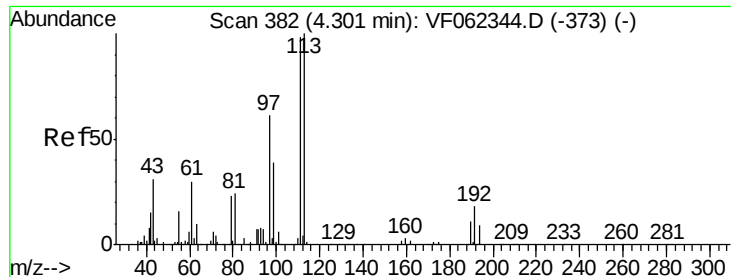
111 101.0 79.4 119.0

192 19.6 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

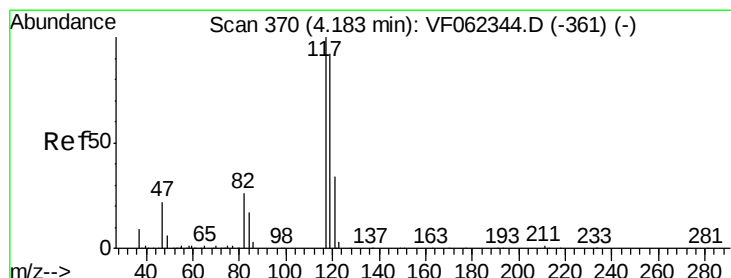
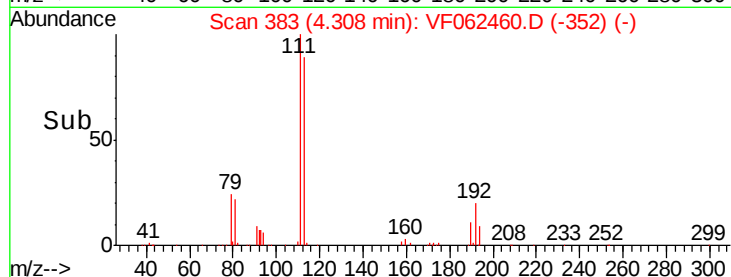
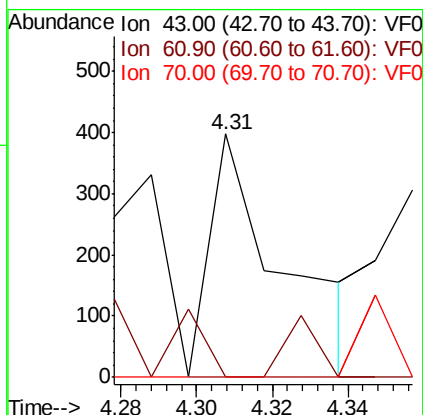
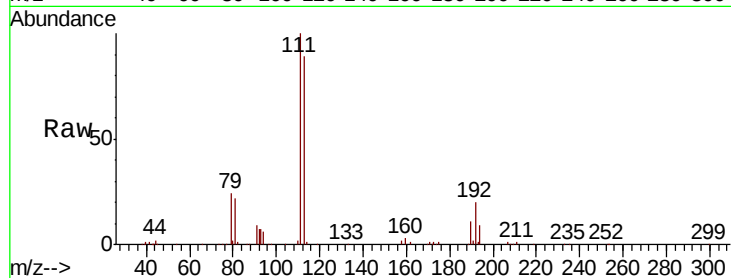




#37
Ethyl Acetate
Concen: Below Cal
RT: 4.31 min Scan# 383
Delta R.T. 0.01 min
Lab File: VF062460.D
Acq: 11 May 2019 15:16

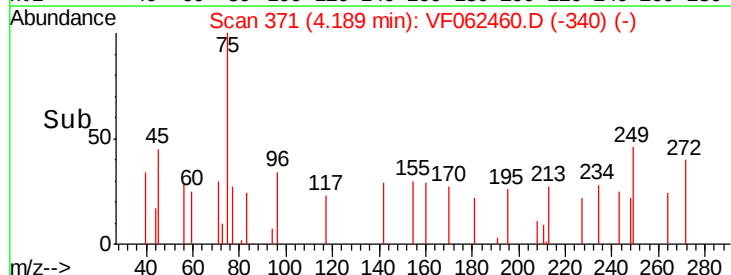
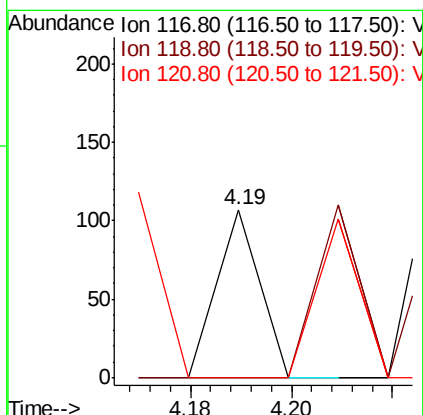
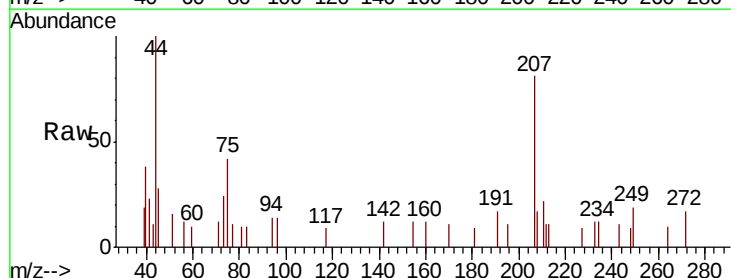
Instrument :
MSVOA_F
ClientSampled :

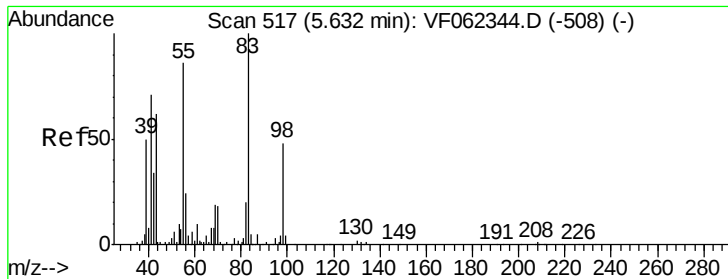
Tot Ion: 43 Resp: 528
Ion Ratio Lower Upper
43 100
61 11.4 0.0 0.0#
70 0.0 8.2 12.2#



#38
Carbon Tetrachloride
Concen: Below Cal
RT: 4.19 min Scan# 371
Delta R.T. 0.01 min
Lab File: VF062460.D
Acq: 11 May 2019 15:16

Tgt Ion: 117 Resp: 63
Ion Ratio Lower Upper
117 100
119 0.0 73.4 110.2#
121 0.0 27.4 41.0#

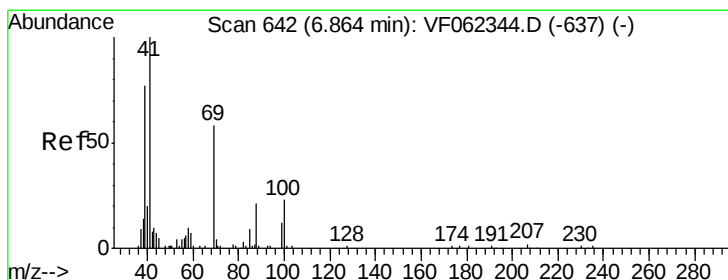
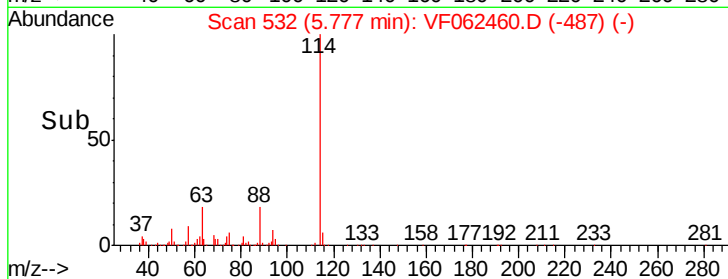
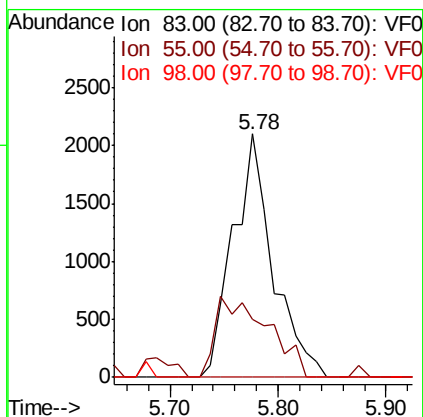
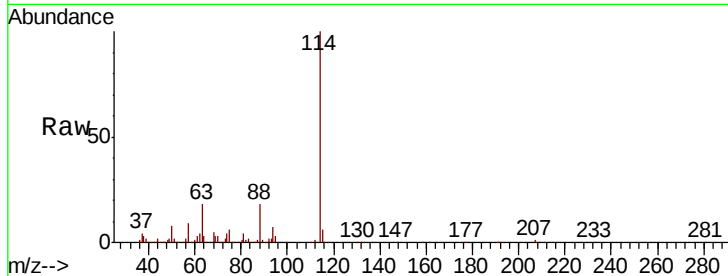




#39
Methvlcvclohexane
Concen: 1.724 ug/l
RT: 5.78 min Scan# 532
Delta R.T. 0.14 min
Lab File: VF062460.D
Acq: 11 May 2019 15:16

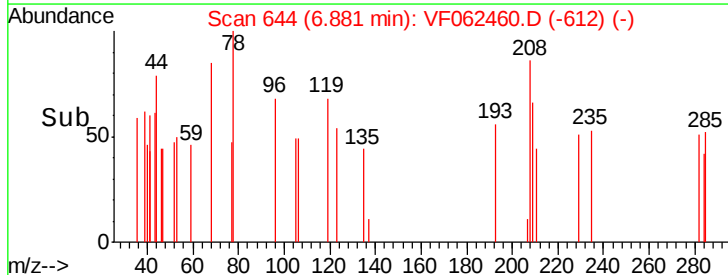
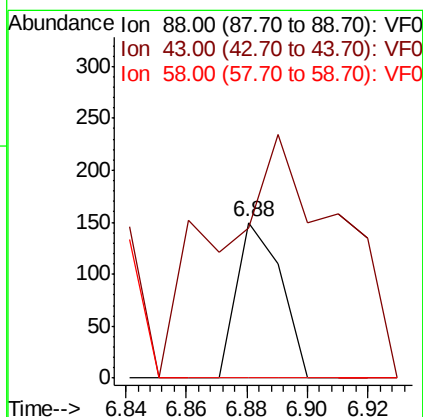
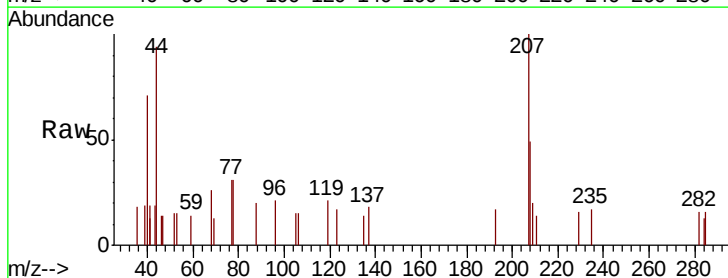
Instrument :
MSVOA_F
ClientSampled :

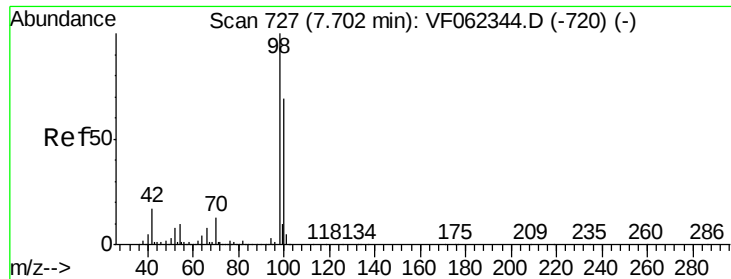
Tot Ion	83.00	Resp:	5360
Ion	Ratio	Lower	Upper
83	100		
55	23.8	69.0	103.6#
98	0.0	38.6	58.0#



#49
1,4-Dioxane
Concen: 1.982 ug/l
RT: 6.88 min Scan# 644
Delta R.T. 0.02 min
Lab File: VF062460.D
Acq: 11 May 2019 15:16

Tgt Ion	88.00	Resp:	154
Ion	Ratio	Lower	Upper
88	100		
43	420.1	55.6	83.4#
58	0.0	52.8	79.2#

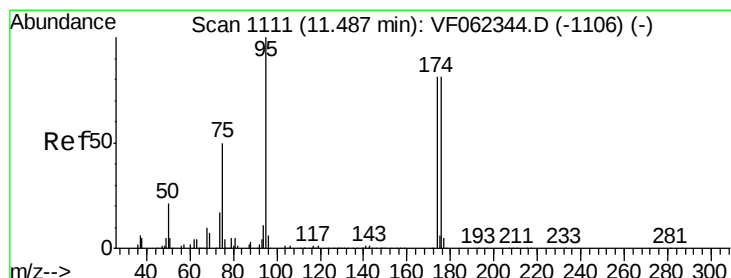
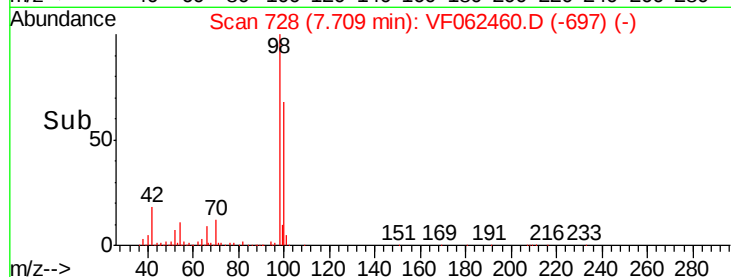
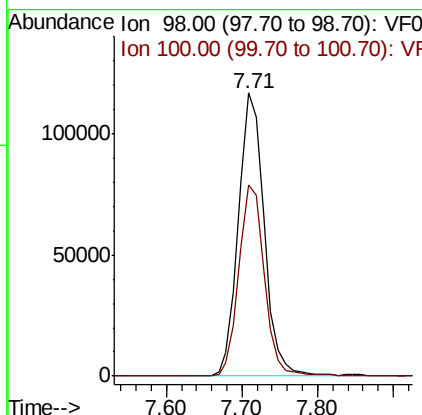
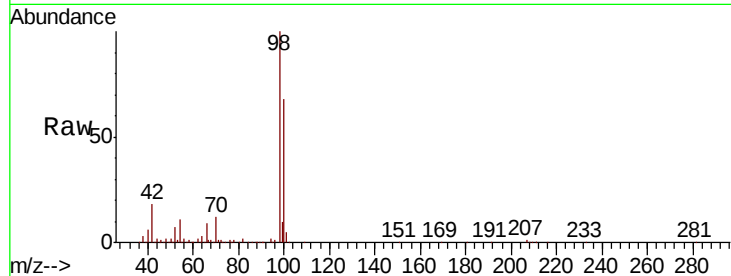




#50
Toluene-d8
Concen: 39.596 ug/l
RT: 7.71 min Scan# 728
Delta R.T. 0.01 min
Lab File: VF062460.D
Acq: 11 May 2019 15:16

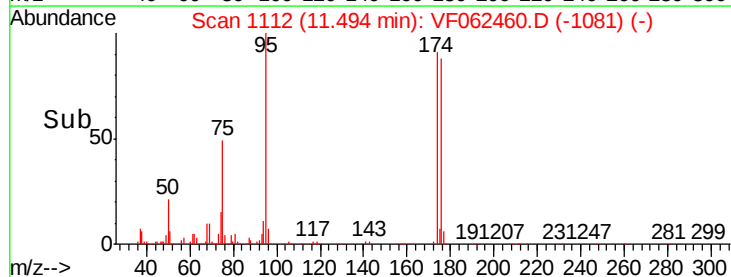
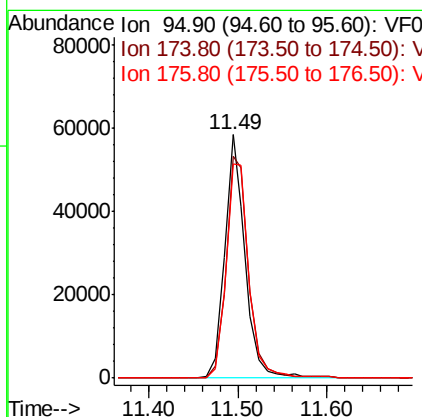
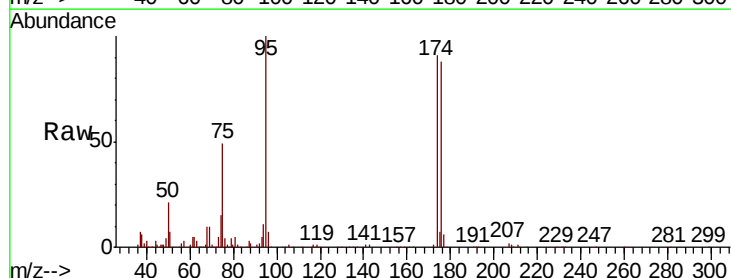
Instrument :
MSVOA_F
ClientSampled :

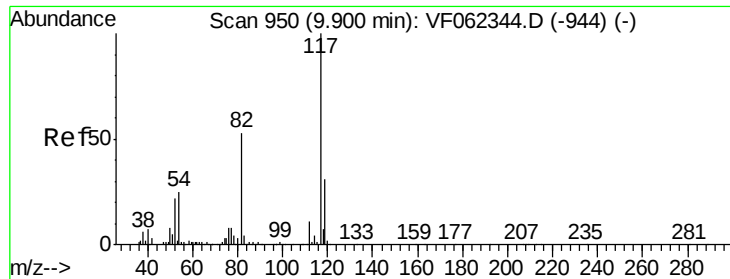
Tot Ion: 98 Resp: 275630
Ion Ratio Lower Upper
98 100
100 67.0 53.3 79.9



#62
4-Bromofluorobenzene
Concen: 30.008 ug/l
RT: 11.49 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VF062460.D
Acq: 11 May 2019 15:16

Tgt Ion: 95 Resp: 94243
Ion Ratio Lower Upper
95 100
174 101.3 0.0 191.8
176 99.4 0.0 193.2

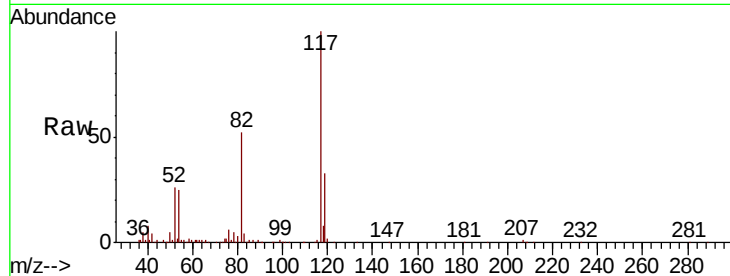




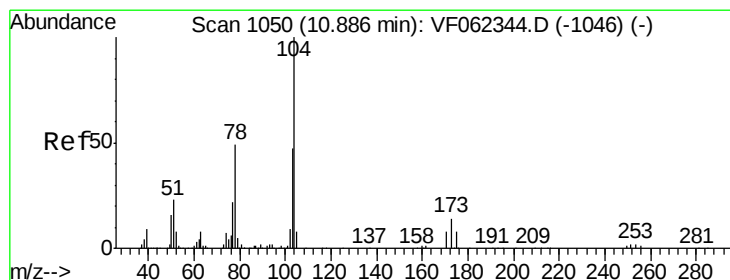
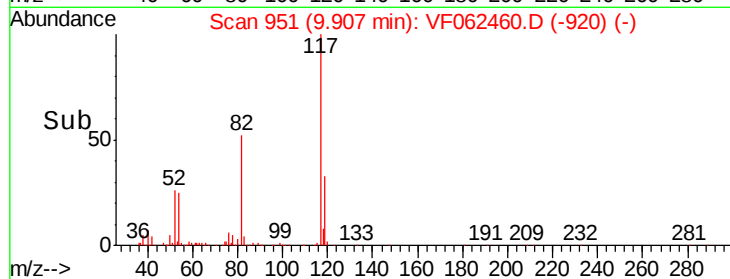
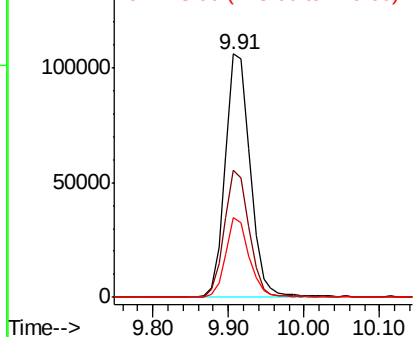
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 951
Delta R.T. 0.01 min
Lab File: VF062460.D
Acq: 11 May 2019 15:16

Instrument :
MSVOA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.3	42.2	63.2
119	33.0	25.0	37.4

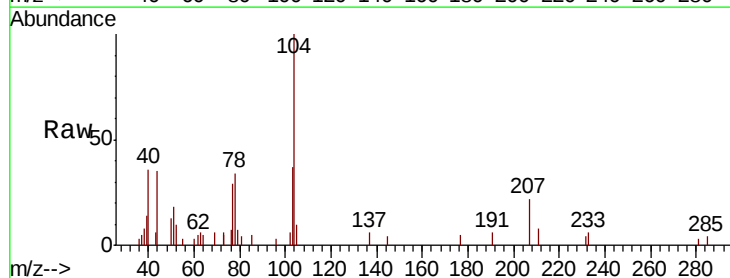


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 118.90 (118.60 to 119.60): V

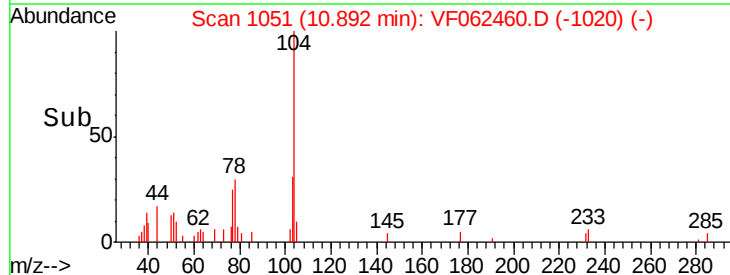
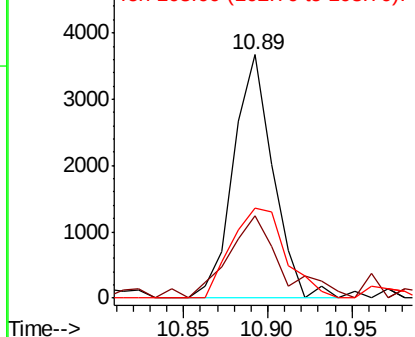


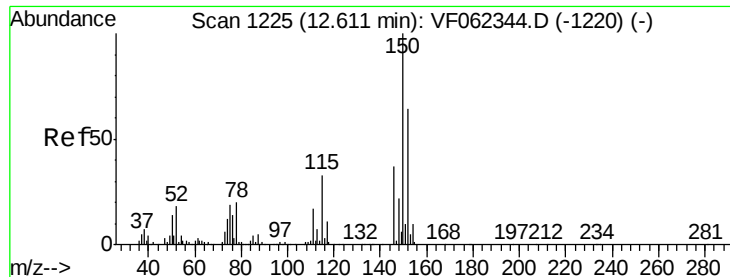
#70
Styrene
Concen: 1.422 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. 0.01 min
Lab File: VF062460.D
Acq: 11 May 2019 15:16

Tgt Ion	Ratio	Lower	Upper
104	100		
78	45.9	39.5	59.3
103	51.1	38.4	57.6



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VF0
Ion 103.00 (102.70 to 103.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1226

Delta R.T. 0.01 min

Lab File: VF062460.D

Acq: 11 May 2019 15:16

Instrument :

MSVOA_F

ClientSampled :

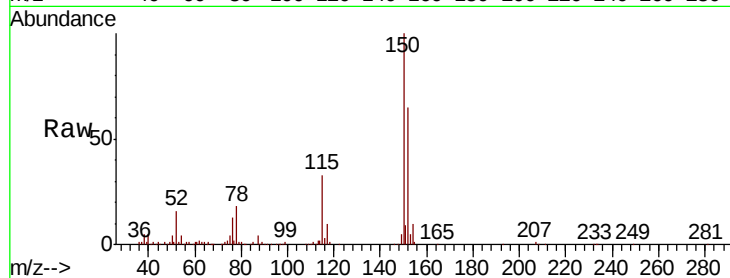
Tot Ion:152 Resp: 93655

Ion Ratio Lower Upper

152 100

115 55.5 26.4 79.2

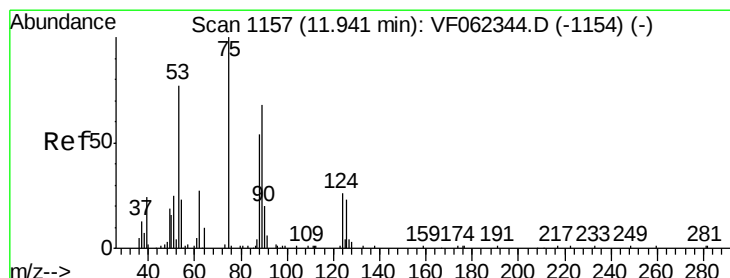
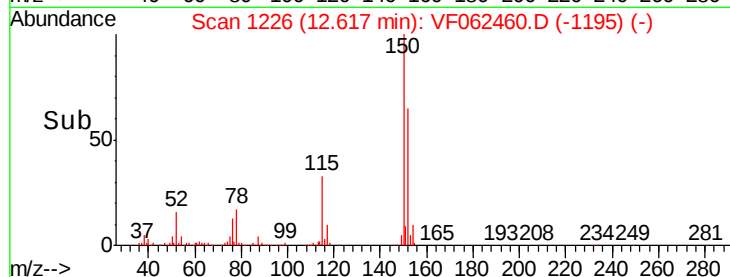
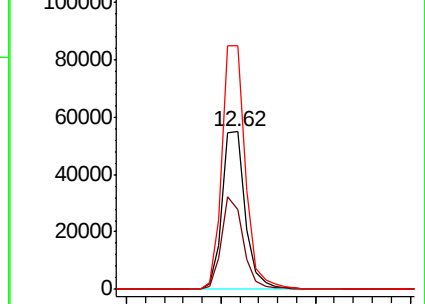
150 155.0 0.0 335.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#81

trans-1,4-Dichloro-2-butene

Concen: 1.352 ug/l

RT: 11.96 min Scan# 1159

Delta R.T. 0.02 min

Lab File: VF062460.D

Acq: 11 May 2019 15:16

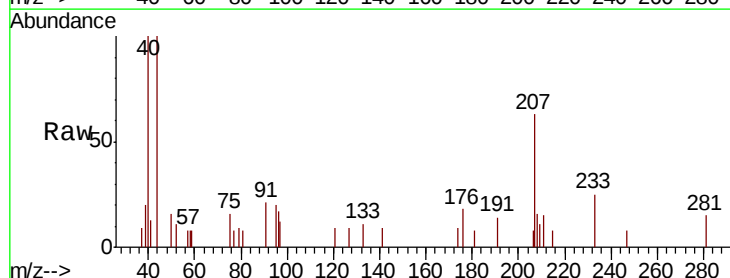
Tgt Ion: 75 Resp: 337

Ion Ratio Lower Upper

75 100

53 24.6 71.9 107.9#

89 24.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 88.90 (88.60 to 89.60): VF0

