

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF050919\
 Data File : VF062413.D
 Acq On : 9 May 2019 23:22
 Operator : FY/SY
 Sample : K2750-03
 Misc : 1.00g/5mL/MSVOA_F/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 72-11995

Quant Time: May 10 01:56:37 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

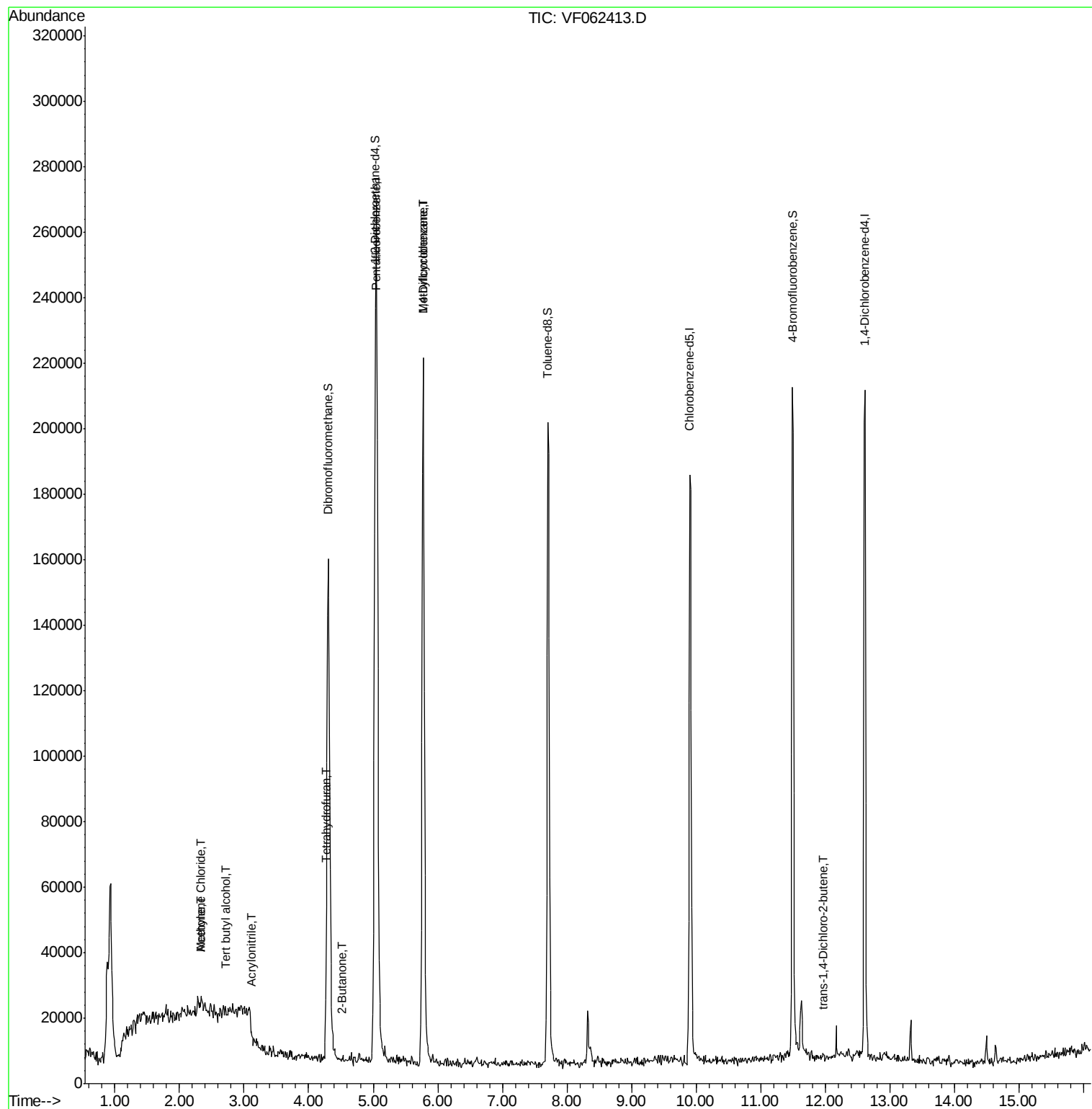
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	200387	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.77	114	235027	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	134143	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.61	152	57556	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.02	65	121297	64.05	ug/l	0.00
Spiked Amount 50.000			Recovery	=	128.10%	
35) Dibromofluoromethane	4.30	113	140941	75.27	ug/l	0.00
Spiked Amount 50.000			Recovery	=	150.54%	
50) Toluene-d8	7.70	98	168257	37.12	ug/l	0.00
Spiked Amount 50.000			Recovery	=	74.24%	
62) 4-Bromofluorobenzene	11.49	95	70472	34.46	ug/l	0.00
Spiked Amount 50.000			Recovery	=	68.92%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.43	94	565	Below Cal	#	54
11) Tert butyl alcohol	2.73	59	641	5.989	ug/l #	70
13) Acrolein	2.10	56	863	Below Cal	#	82
15) Acrylonitrile	3.11	53	1046	5.159	ug/l #	23
16) Acetone	2.33	43	665	1.736	ug/l #	86
18) Methyl Acetate	2.47	43	1300	Below Cal	#	73
20) Methylene Chloride	2.33	84	1794	1.294	ug/l #	63
25) 2-Butanone	4.51	43	1279	2.657	ug/l #	60
29) Tetrahydrofuran	4.26	42	844	3.816	ug/l #	53
37) Ethyl Acetate	4.30	43	611	Below Cal	#	85
38) Carbon Tetrachloride	4.24	117	77	Below Cal	#	9
39) Methylcyclohexane	5.77	83	4122	2.036	ug/l #	53
49) 1,4-Dioxane	6.91	88	73	Below Cal	#	1
81) trans-1,4-Dichloro-2-buten	11.98	75	426	2.780	ug/l #	22

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

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QLast Update : Tue May 07 04:34:57 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 459

Delta R.T. 0.00 min

Lab File: VF062413.D

Acq: 9 May 2019 23:22

Instrument :

MSVOA_F

ClientSampleId :

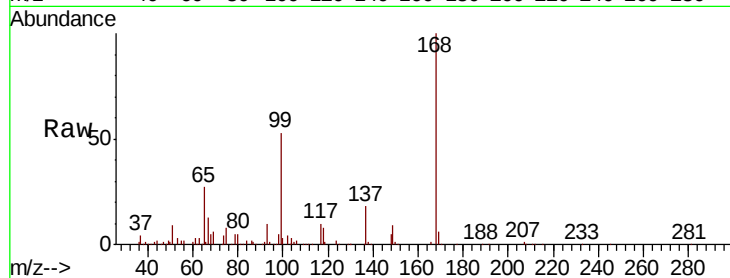
72-11995

Tgt Ion:168 Resp: 200387

Ion Ratio Lower Upper

168 100

99 53.2 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

80000

60000

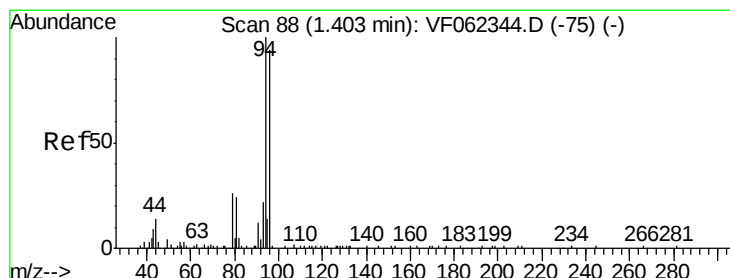
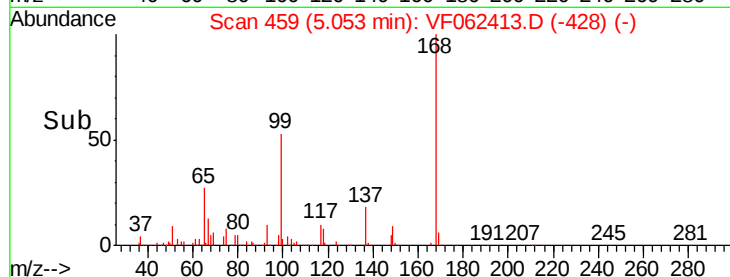
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#5

Bromomethane

Concen: Below Cal

RT: 1.43 min Scan# 91

Delta R.T. 0.02 min

Lab File: VF062413.D

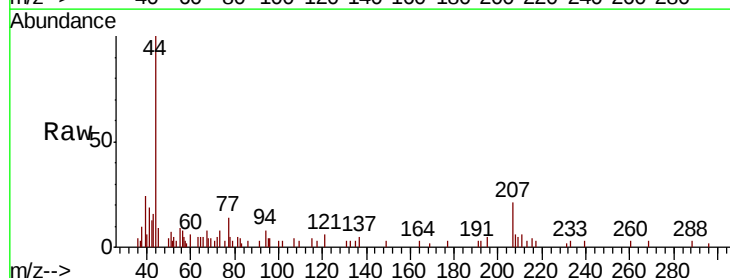
Acq: 9 May 2019 23:22

Tgt Ion: 94 Resp: 565

Ion Ratio Lower Upper

94 100

96 49.9 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

1.43

600

500

400

300

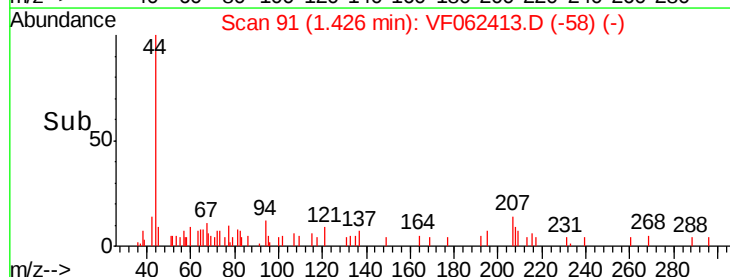
200

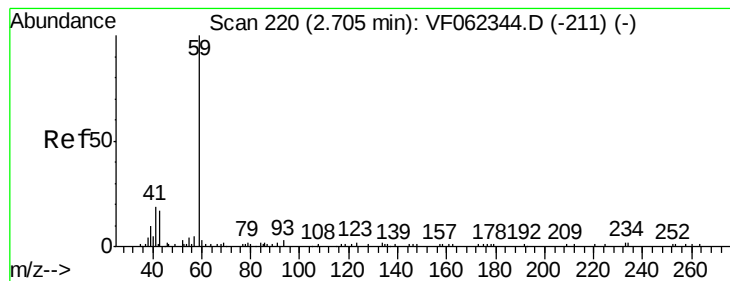
100

0

Time-->

1.40 1.42 1.44 1.46 1.48



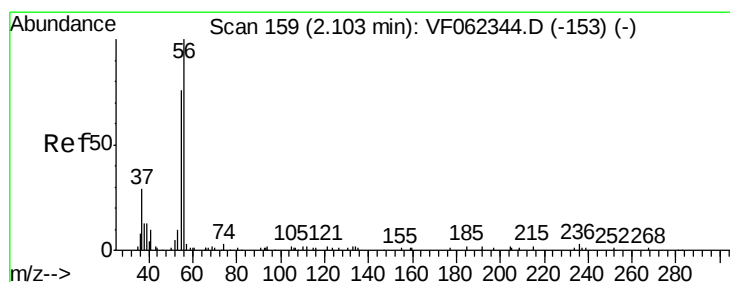
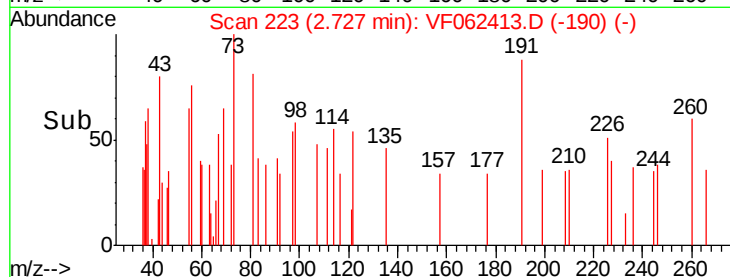
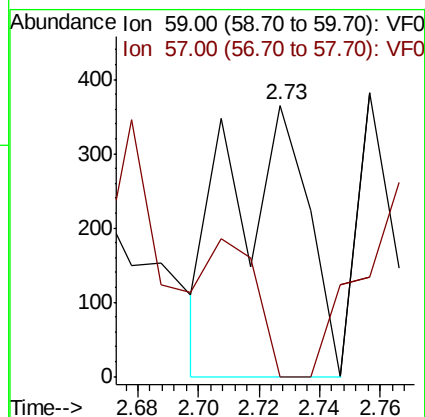
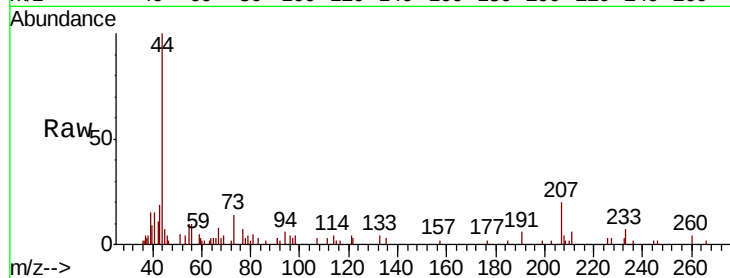


#11

Tert butyl alcohol
Concen: 5.989 ug/l
RT: 2.73 min Scan# 223
Delta R.T. 0.02 min
Lab File: VF062413.D
Acq: 9 May 2019 23:22

Instrument :
MSVOA_F
ClientSampleId :
72-11995

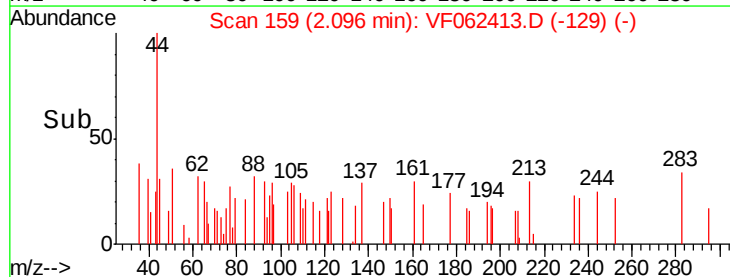
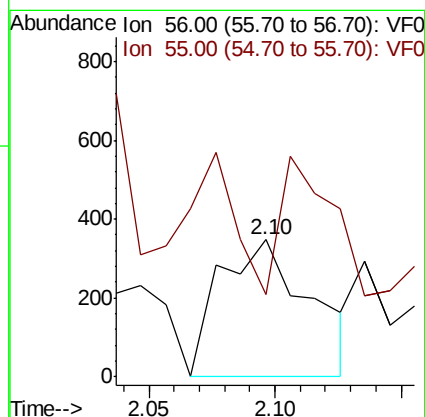
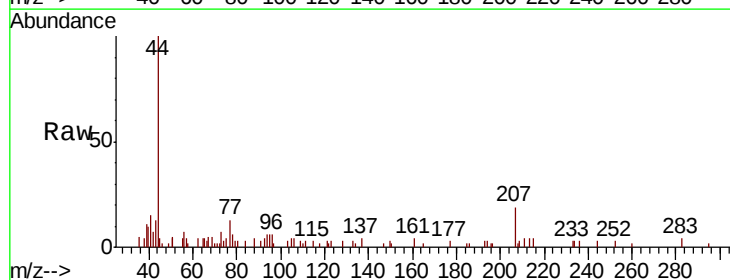
Tgt Ion: 59 Resp: 641
Ion Ratio Lower Upper
59 100
57 0.0 9.3 13.9#

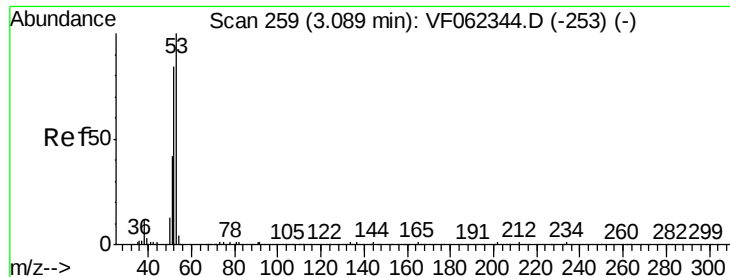


#13

Acrolein
Concen: Below Cal
RT: 2.10 min Scan# 159
Delta R.T. -0.01 min
Lab File: VF062413.D
Acq: 9 May 2019 23:22

Tgt Ion: 56 Resp: 863
Ion Ratio Lower Upper
56 100
55 57.6 58.4 87.6#





#15

Acrylonitrile

Concen: 5.159 ug/l

RT: 3.11 min Scan# 262

Delta R.T. 0.02 min

Lab File: VF062413.D

Acq: 9 May 2019 23:22

Instrument :

MSVOA_F

ClientSampled :

72-11995

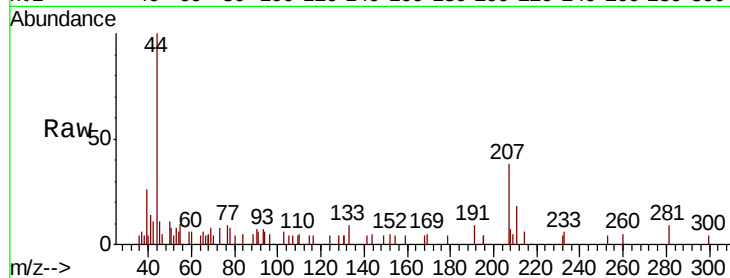
Tgt Ion: 53 Resp: 1046

Ion Ratio Lower Upper

53 100

52 0.0 77.2 115.8#

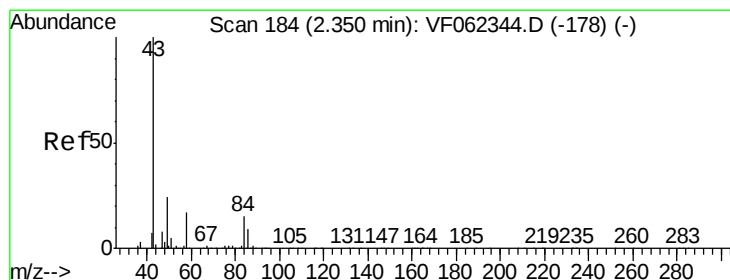
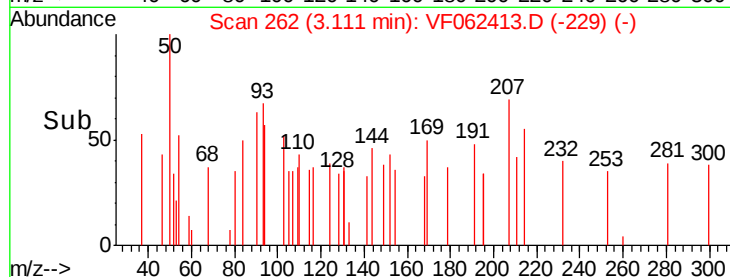
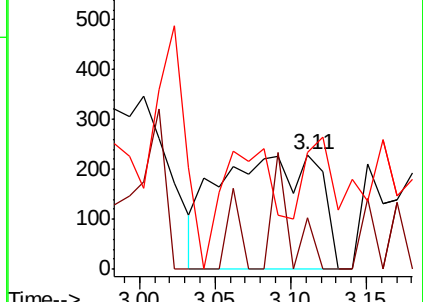
51 25.1 40.6 61.0#



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 1.736 ug/l

RT: 2.33 min Scan# 183

Delta R.T. -0.02 min

Lab File: VF062413.D

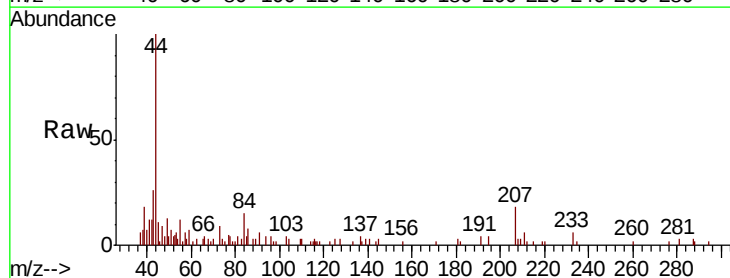
Acq: 9 May 2019 23:22

Tgt Ion: 43 Resp: 665

Ion Ratio Lower Upper

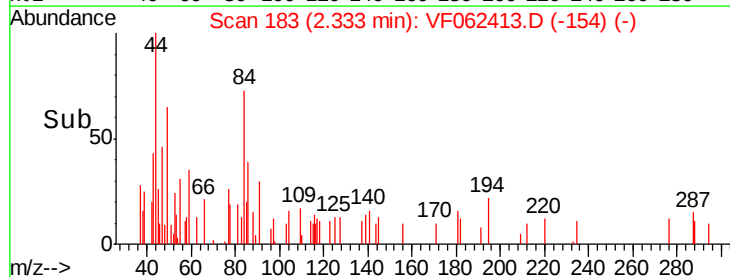
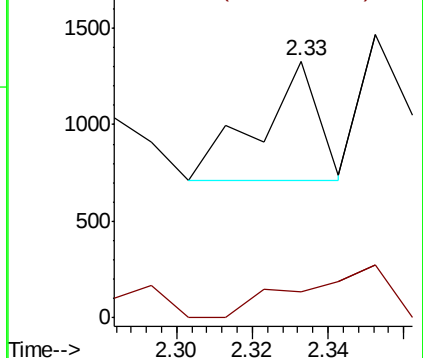
43 100

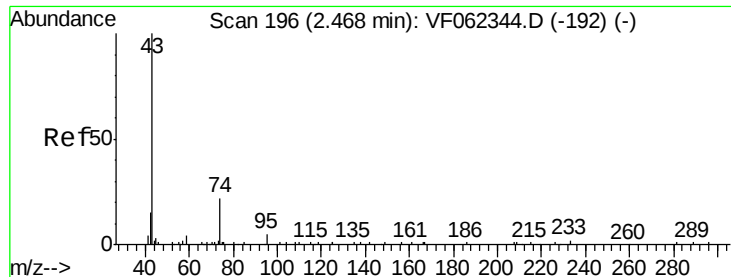
58 22.4 13.1 19.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

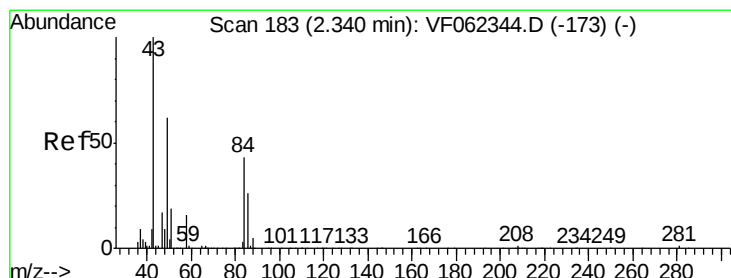
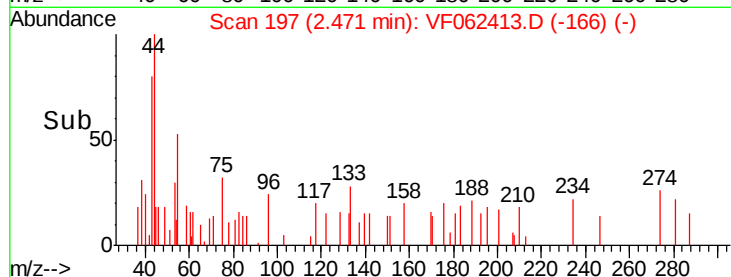
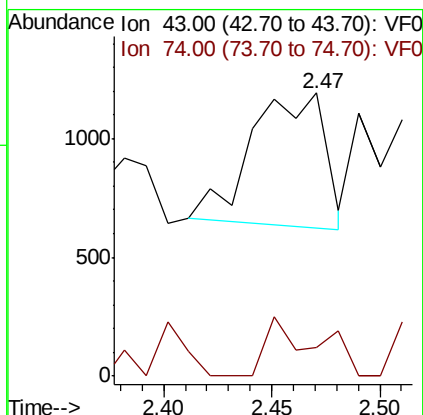
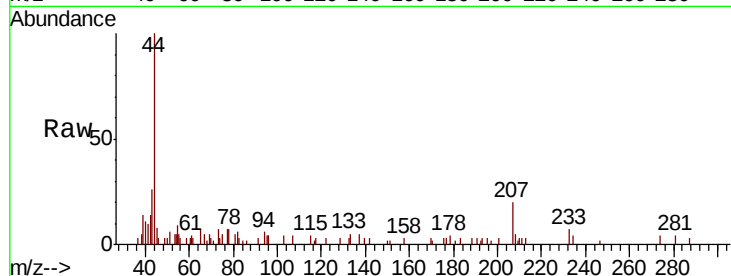




#18
Methyl Acetate
Concen: Below Cal
RT: 2.47 min Scan# 197
Delta R.T. 0.00 min
Lab File: VF062413.D
Acq: 9 May 2019 23:22

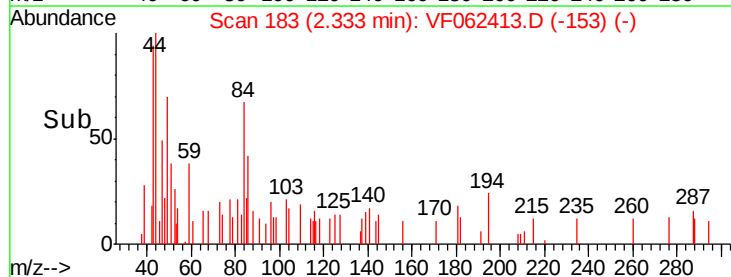
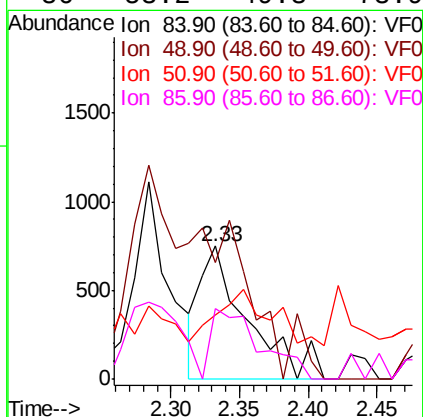
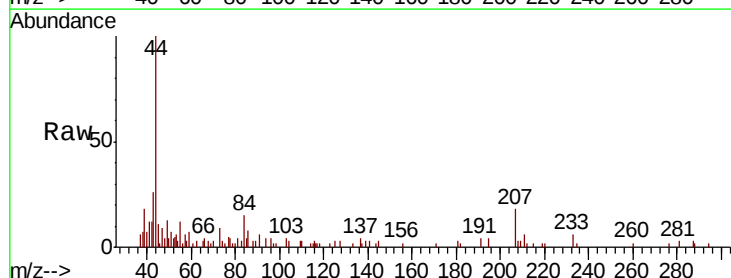
Instrument :
MSVOA_F
ClientSampleId :
72-11995

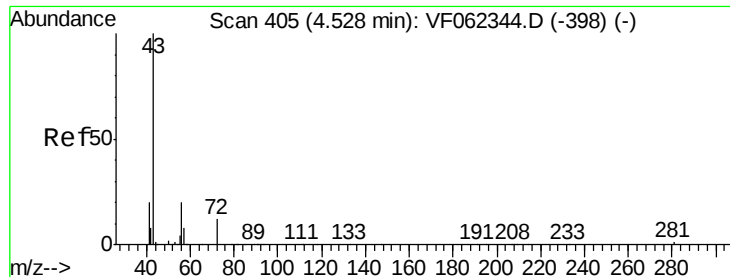
Tgt Ion: 43 Resp: 1300
Ion Ratio Lower Upper
43 100
74 30.7 15.0 22.4#



#20
Methylene Chloride
Concen: 1.294 ug/l
RT: 2.33 min Scan# 183
Delta R.T. -0.01 min
Lab File: VF062413.D
Acq: 9 May 2019 23:22

Tgt Ion: 84 Resp: 1794
Ion Ratio Lower Upper
84 100
49 88.2 117.5 176.3#
51 19.9 37.0 55.4#
86 53.2 49.3 73.9





#25

2-Butanone

Concen: 2.657 ug/l

RT: 4.51 min Scan# 404

Delta R.T. -0.02 min

Lab File: VF062413.D

Acq: 9 May 2019 23:22

Instrument :

MSVOA_F

ClientSampled :

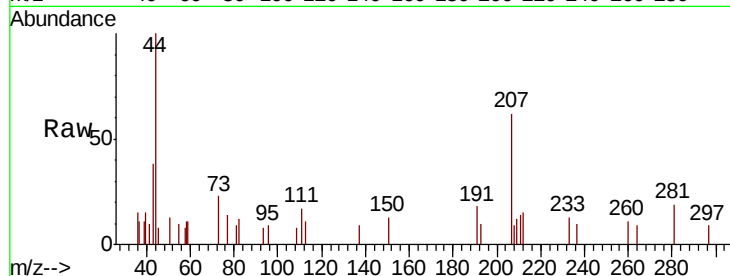
72-11995

Tgt Ion: 43 Resp: 1279

Ion Ratio Lower Upper

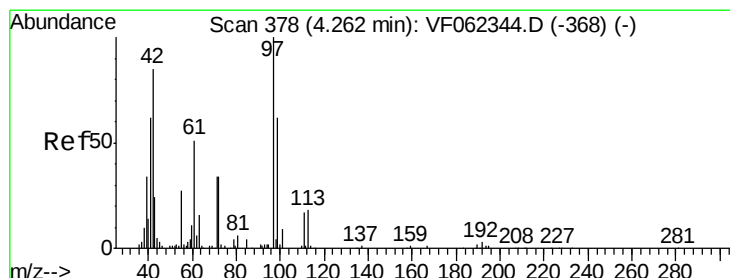
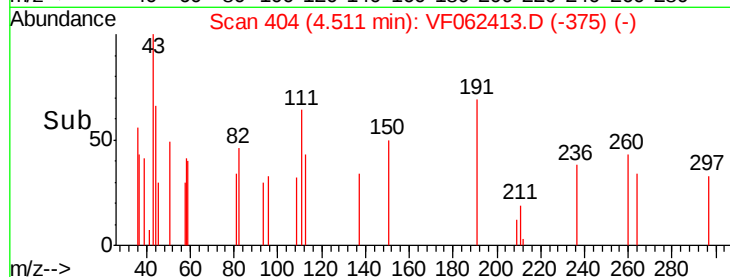
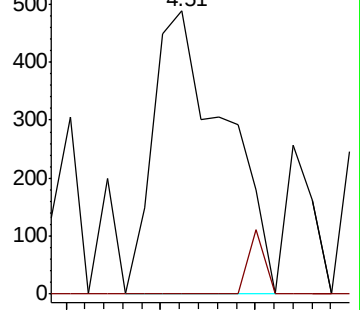
43 100

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: 3.816 ug/l

RT: 4.26 min Scan# 379

Delta R.T. 0.00 min

Lab File: VF062413.D

Acq: 9 May 2019 23:22

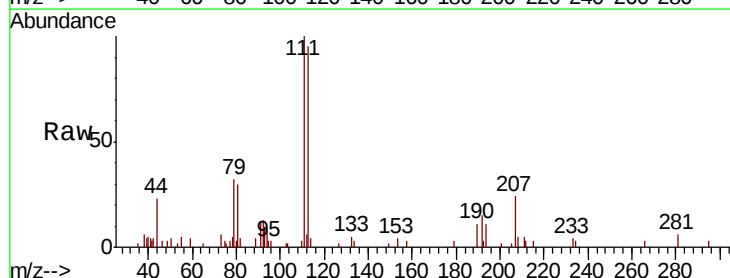
Tgt Ion: 42 Resp: 844

Ion Ratio Lower Upper

42 100

72 12.0 31.4 47.0#

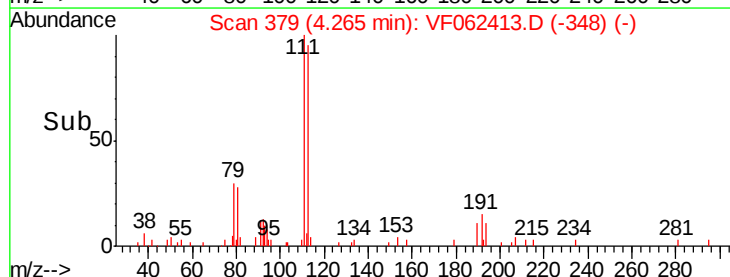
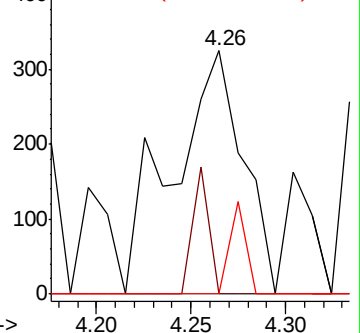
71 8.6 31.7 47.5#

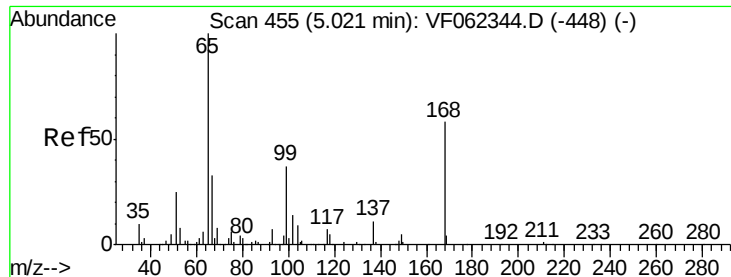


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 64.051 ug/l

RT: 5.02 min Scan# 456

Delta R.T. 0.00 min

Lab File: VF062413.D

Acq: 9 May 2019 23:22

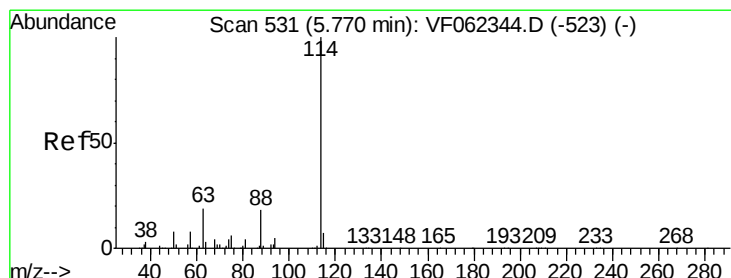
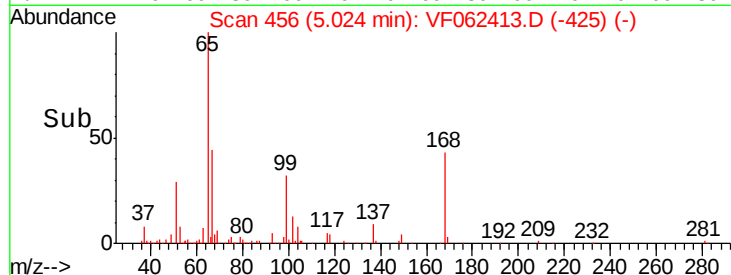
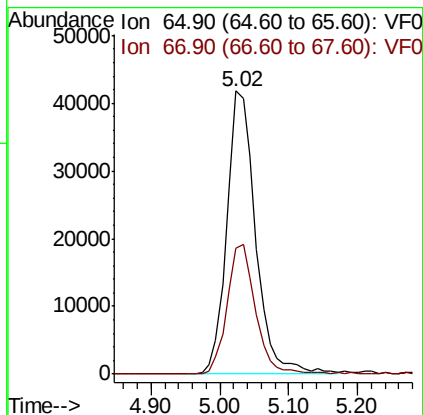
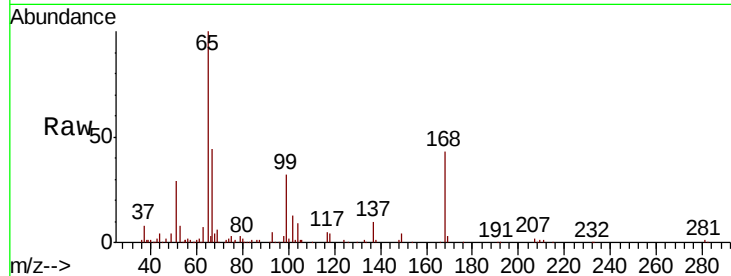
Instrument :
MSVOA_F
ClientSampleId :
72-11995

Tgt Ion: 65 Resp: 121297

Ion Ratio Lower Upper

65 100

67 45.2 0.0 85.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.77 min Scan# 532

Delta R.T. 0.00 min

Lab File: VF062413.D

Acq: 9 May 2019 23:22

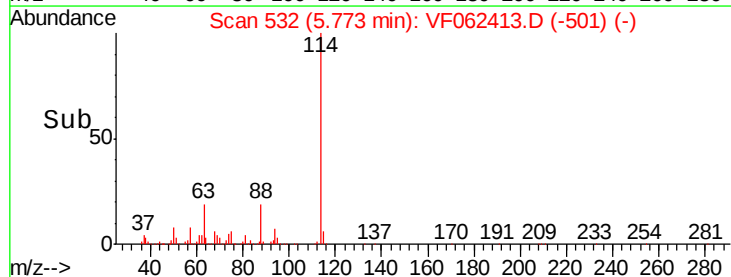
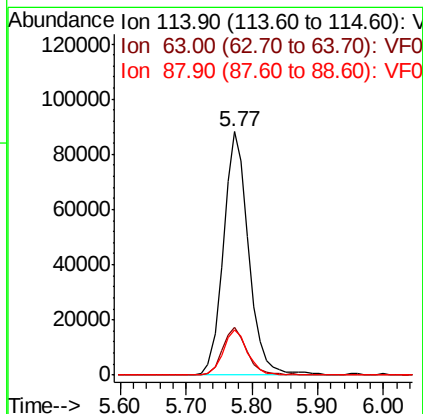
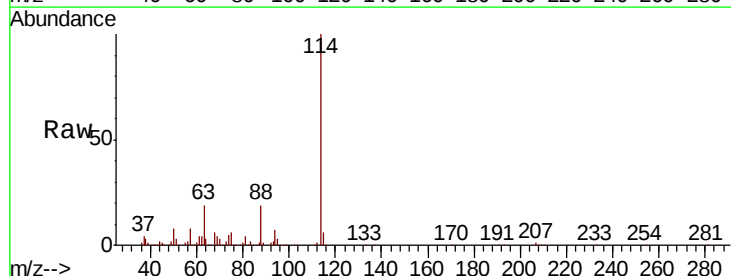
Tgt Ion: 114 Resp: 235027

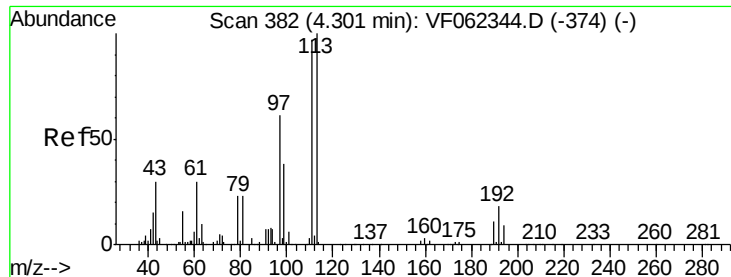
Ion Ratio Lower Upper

114 100

63 19.4 0.0 37.4

88 18.6 0.0 36.4

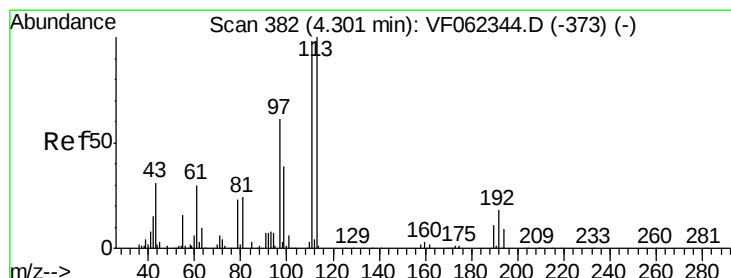
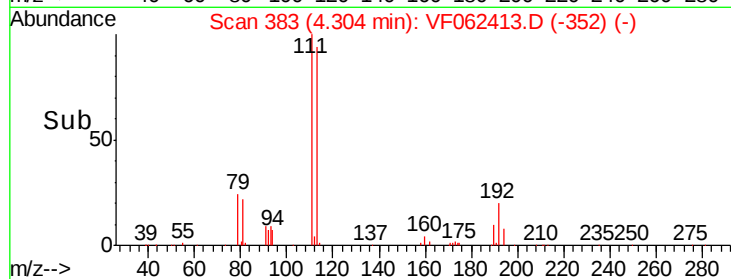
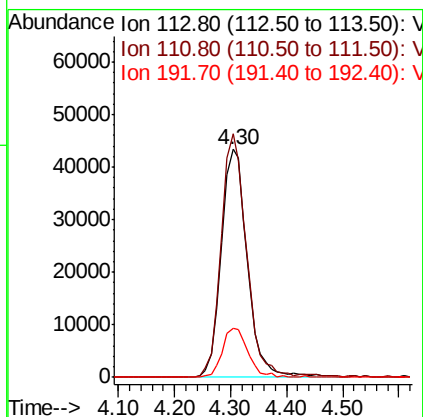
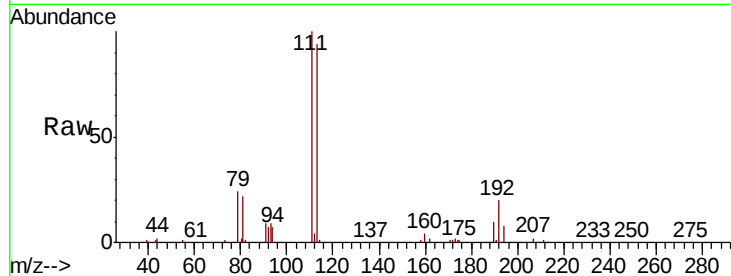




#35
 Dibromofluoromethane
 Concen: 75.272 ug/l
 RT: 4.30 min Scan# 383
 Delta R.T. 0.00 min
 Lab File: VF062413.D
 Acq: 9 May 2019 23:22

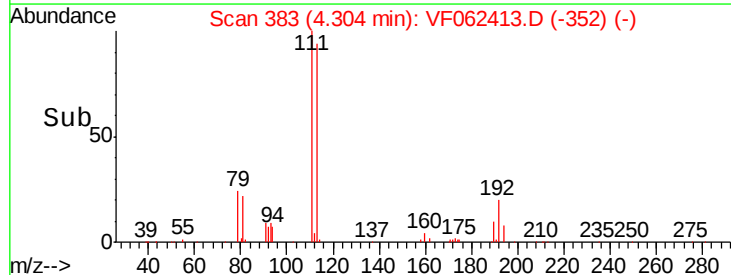
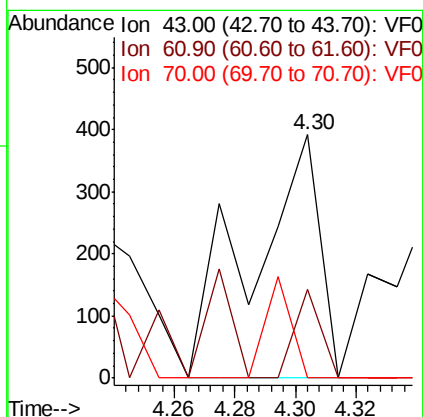
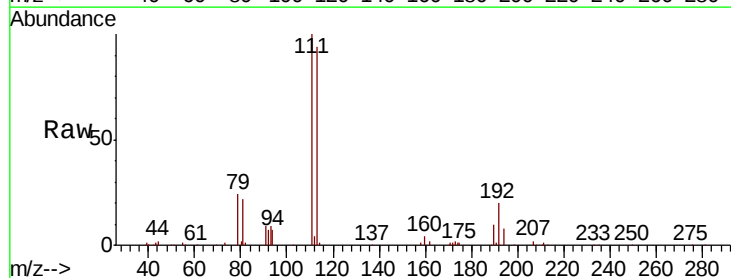
Instrument :
 MSVOA_F
 ClientSampleId :
 72-11995

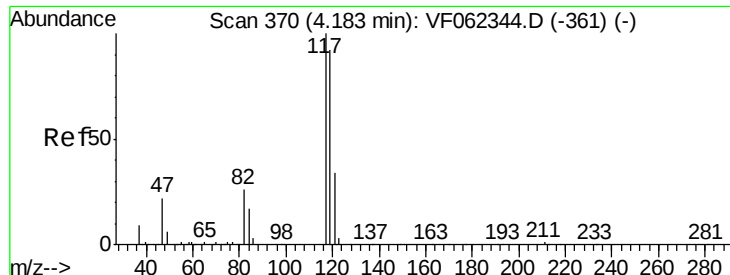
Tgt Ion:113 Resp: 140941
 Ion Ratio Lower Upper
 113 100
 111 103.2 79.4 119.0
 192 21.3 16.0 24.0



#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 4.30 min Scan# 383
 Delta R.T. 0.00 min
 Lab File: VF062413.D
 Acq: 9 May 2019 23:22

Tgt Ion: 43 Resp: 611
 Ion Ratio Lower Upper
 43 100
 61 13.9 0.0 0.0#
 70 15.7 8.2 12.2#





#38

Carbon Tetrachloride

Concen: Below Cal

RT: 4.24 min Scan# 376

Delta R.T. 0.05 min

Lab File: VF062413.D

Acq: 9 May 2019 23:22

Instrument :

MSVOA_F

ClientSampleId :

72-11995

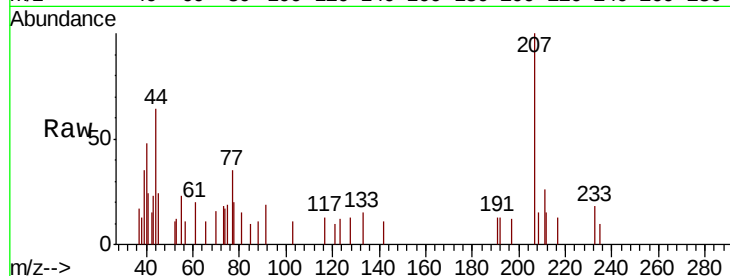
Tgt Ion:117 Resp: 77

Ion Ratio Lower Upper

117 100

119 0.0 73.4 110.2#

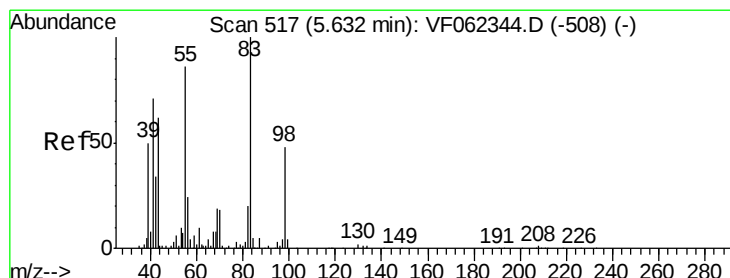
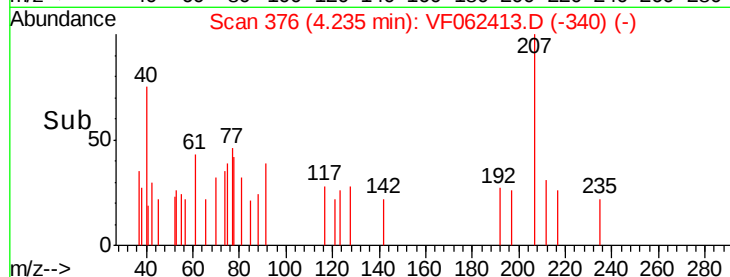
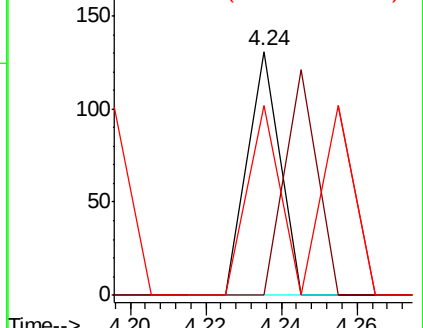
121 77.9 27.4 41.0#



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: 2.036 ug/l

RT: 5.77 min Scan# 532

Delta R.T. 0.14 min

Lab File: VF062413.D

Acq: 9 May 2019 23:22

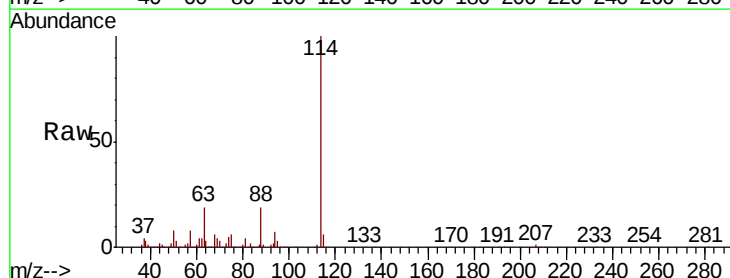
Tgt Ion: 83 Resp: 4122

Ion Ratio Lower Upper

83 100

55 49.7 69.0 103.6#

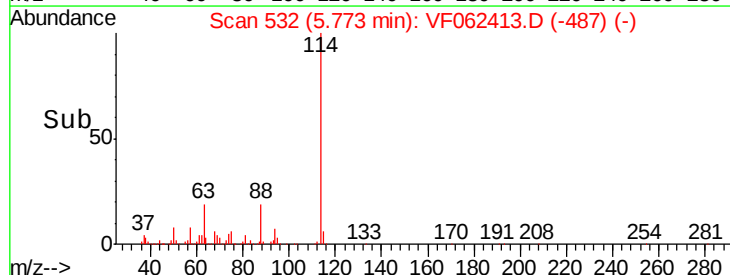
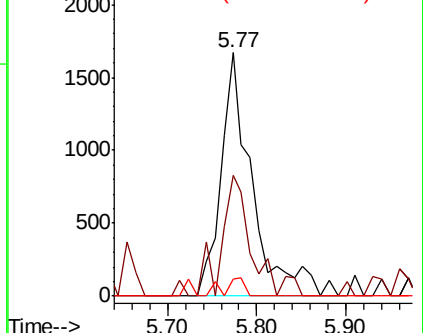
98 7.0 38.6 58.0#

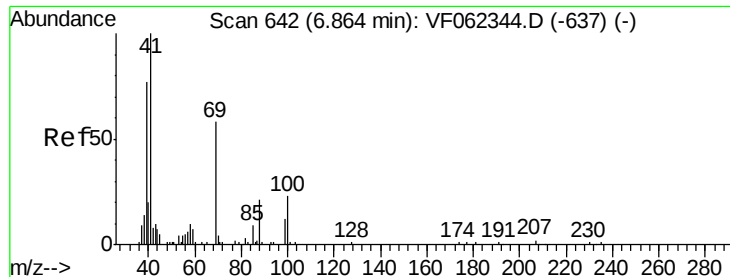


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

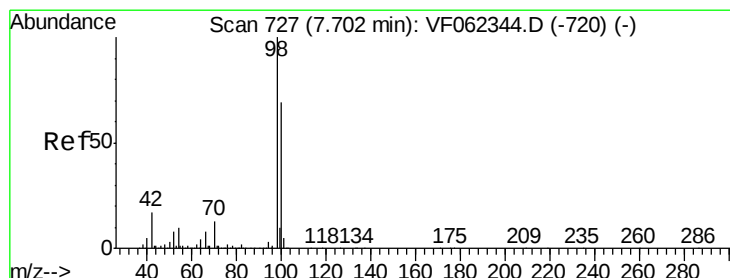
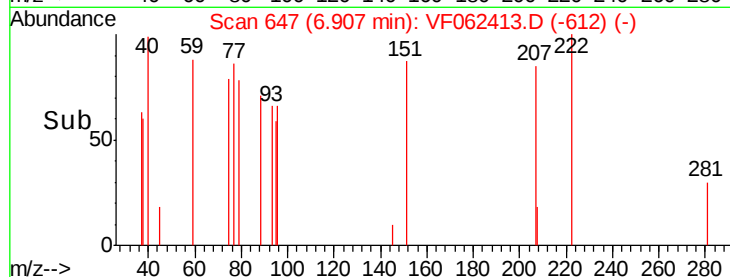
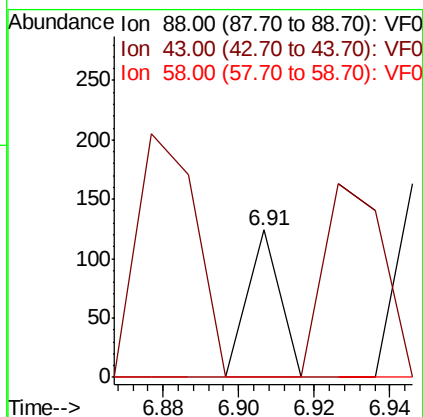
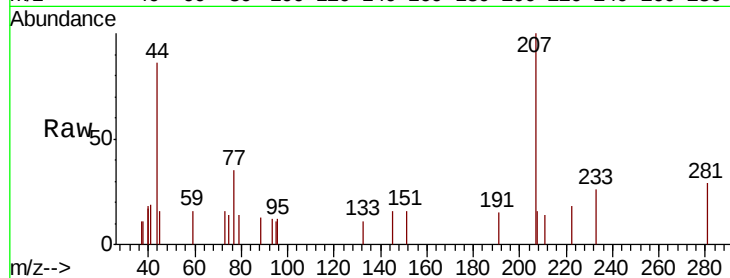




#49
1,4-Dioxane
Concen: Below Cal
RT: 6.91 min Scan# 647
Delta R.T. 0.04 min
Lab File: VF062413.D
Acq: 9 May 2019 23:22

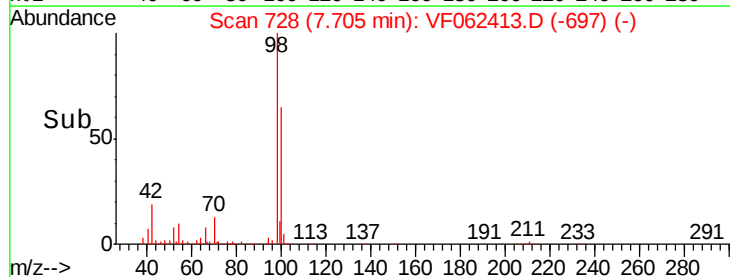
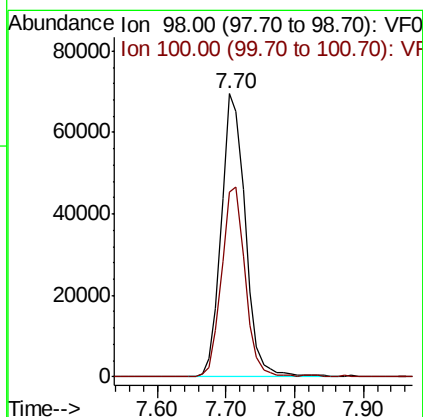
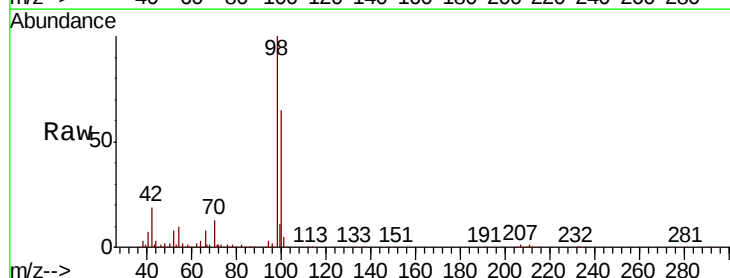
Instrument :
MSVOA_F
ClientSampled :
72-11995

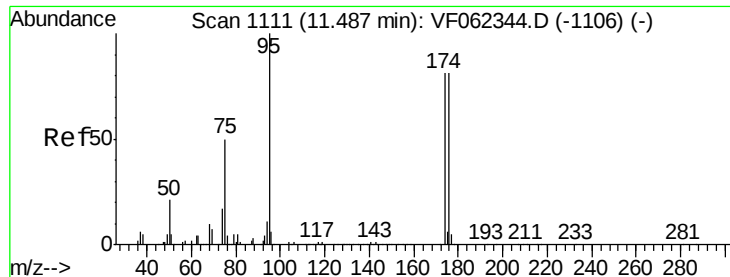
Tgt Ion: 88 Resp: 73
Ion Ratio Lower Upper
88 100
43 246.6 55.6 83.4#
58 0.0 52.8 79.2#



#50
Toluene-d8
Concen: 37.123 ug/l
RT: 7.70 min Scan# 728
Delta R.T. 0.00 min
Lab File: VF062413.D
Acq: 9 May 2019 23:22

Tgt Ion: 98 Resp: 168257
Ion Ratio Lower Upper
98 100
100 65.5 53.3 79.9





#62

4-Bromofluorobenzene

Concen: 34.463 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. 0.00 min

Lab File: VF062413.D

Acq: 9 May 2019 23:22

Instrument :

MSVOA_F

ClientSampled :

72-11995

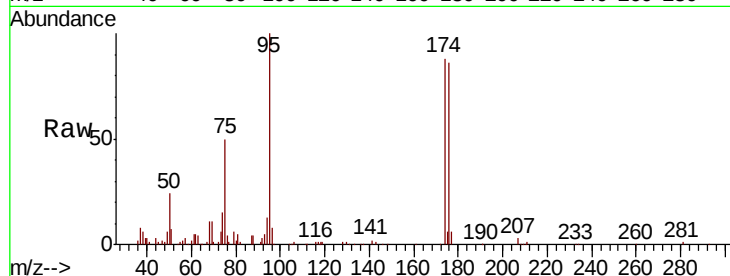
Tgt Ion: 95 Resp: 70472

Ion Ratio Lower Upper

95 100

174 99.6 0.0 191.8

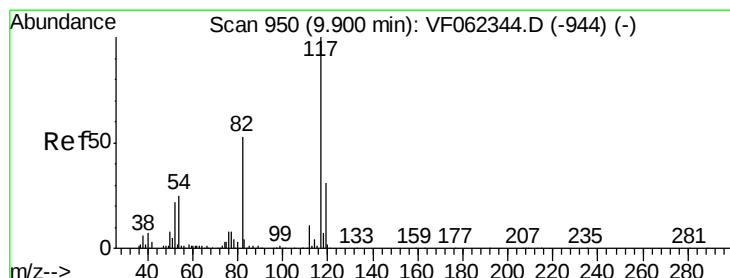
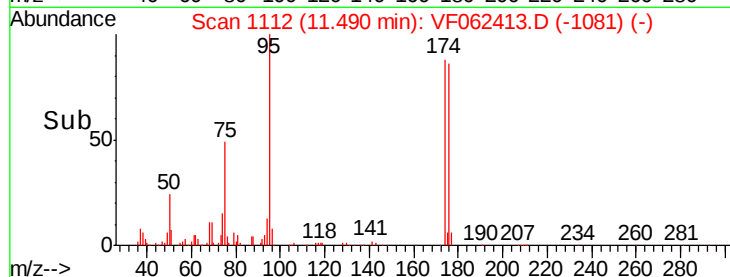
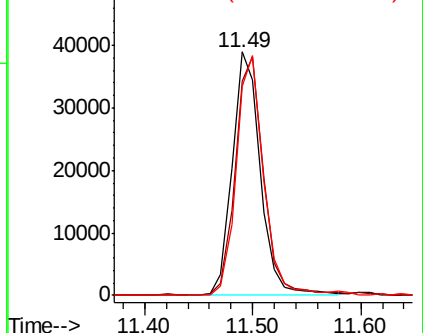
176 95.3 0.0 193.2



Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): VF0

Ion 175.80 (175.50 to 176.50): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.91 min Scan# 952

Delta R.T. 0.01 min

Lab File: VF062413.D

Acq: 9 May 2019 23:22

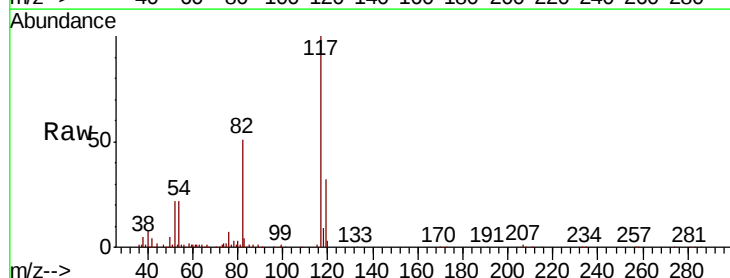
Tgt Ion: 117 Resp: 134143

Ion Ratio Lower Upper

117 100

82 51.3 42.2 63.2

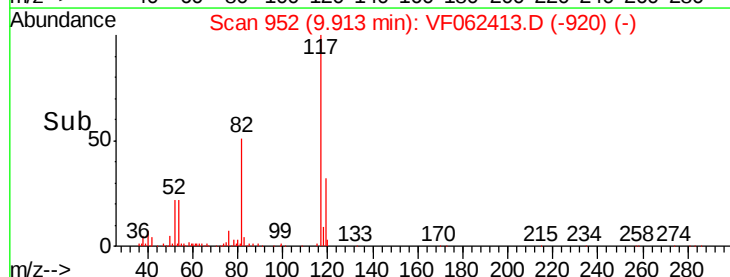
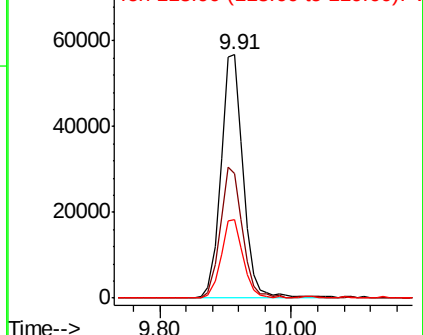
119 32.2 25.0 37.4

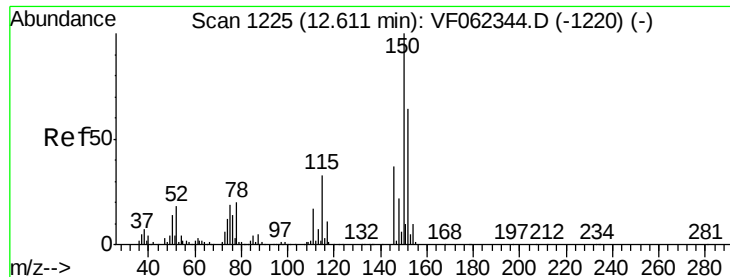


Abundance Ion 116.90 (116.60 to 117.60): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 118.90 (118.60 to 119.60): VF0



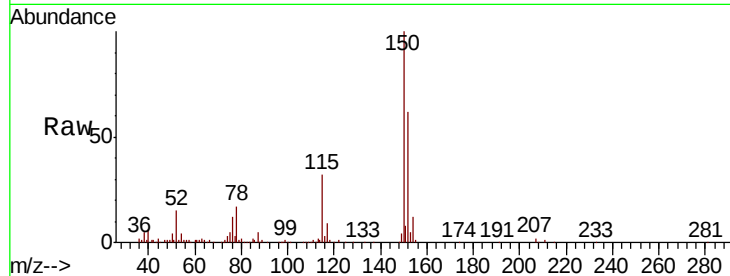


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.61 min Scan# 1226
Delta R.T. 0.00 min
Lab File: VF062413.D
Acq: 9 May 2019 23:22

Instrument :
MSVOA_F
ClientSampleId :
72-11995

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.2	26.4	79.2
150	156.9	0.0	335.0

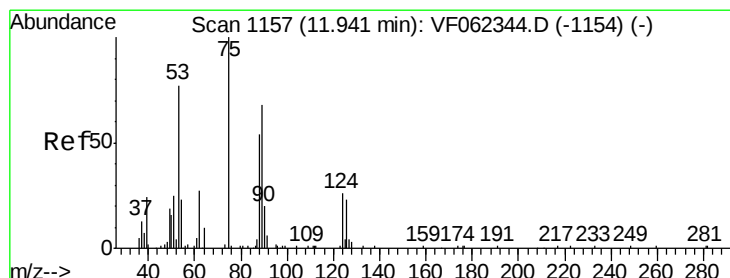
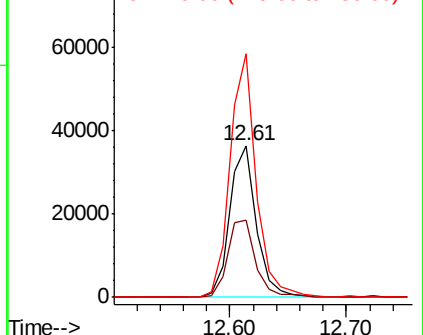
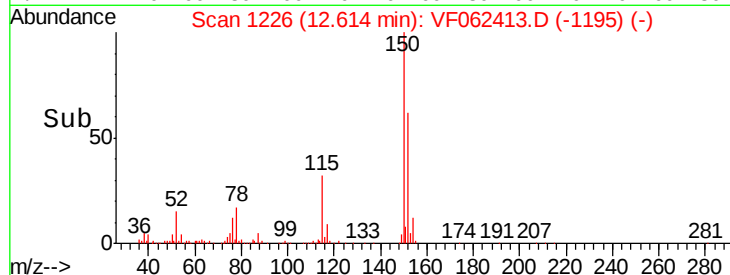


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

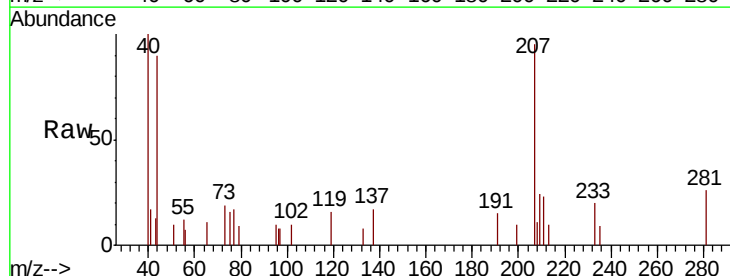
Ion 149.90 (149.60 to 150.60): V



#81

trans-1,4-Dichloro-2-butene
Concen: 2.780 ug/l
RT: 11.98 min Scan# 1162
Delta R.T. 0.04 min
Lab File: VF062413.D
Acq: 9 May 2019 23:22

Tgt Ion	Ratio	Lower	Upper
75	100		
53	16.2	71.9	107.9#
89	20.4	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

