

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF050719\
 Data File : VF062353.D
 Acq On : 7 May 2019 13:13
 Operator : FY/SY
 Sample : K2667-01
 Misc : 4.91g/5mL/MSVOA_F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SP-1-A

Quant Time: May 07 13:39:26 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	5.04	168	357557	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	481360	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	382221	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.60	152	191761	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.02	65	136685	40.45	ug/l	0.00
Spiked Amount						
			Recovery	=	80.90%	
35) Dibromofluoromethane	4.29	113	167324	43.63	ug/l	0.00
Spiked Amount						
			Recovery	=	87.26%	
50) Toluene-d8	7.71	98	343564	37.01	ug/l	0.00
Spiked Amount						
			Recovery	=	74.02%	
62) 4-Bromofluorobenzene	11.49	95	147463	35.21	ug/l	0.00
Spiked Amount						
			Recovery	=	70.42%	

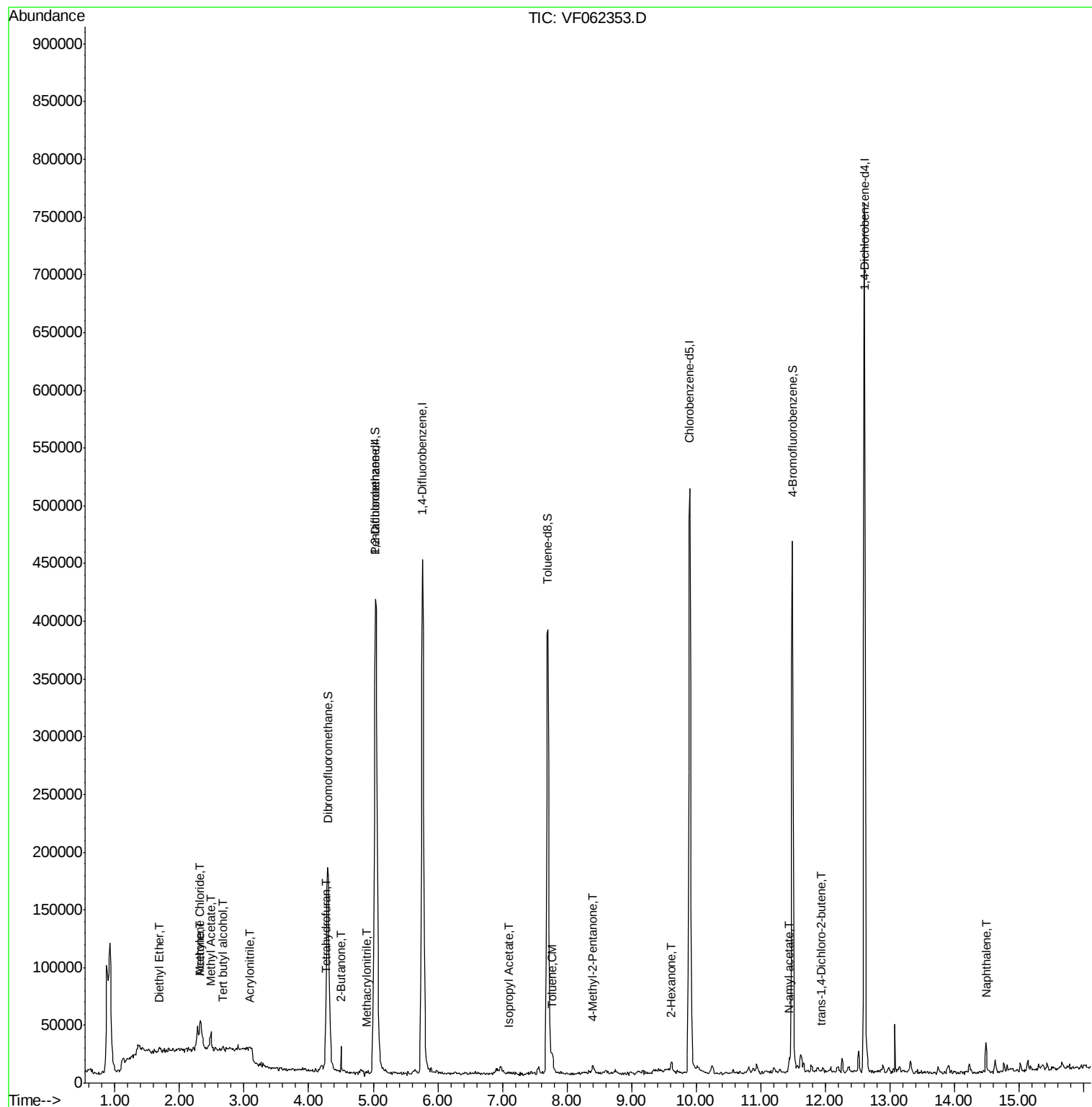
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.42	94	889	Below Cal	#	11
8) Diethyl Ether	1.70	74	1975	2.311	ug/l	60
11) Tert butyl alcohol	2.69	59	1543	8.080	ug/l #	72
13) Acrolein	2.07	56	279	Below Cal	#	1
15) Acrylonitrile	3.10	53	1231	3.403	ug/l #	42
16) Acetone	2.33	43	11681	17.088	ug/l	97
18) Methyl Acetate	2.49	43	7492	3.070	ug/l #	62
20) Methylene Chloride	2.32	84	11428	4.621	ug/l #	85
25) 2-Butanone	4.50	43	2610	3.039	ug/l #	60
29) Tetrahydrofuran	4.26	42	1072	2.716	ug/l #	53
37) Ethyl Acetate	4.28	43	354	Below Cal	#	35
38) Carbon Tetrachloride	4.22	117	146	Below Cal	#	14
41) Methacrylonitrile	4.90	41	994	1.003	ug/l #	36
43) Isopropyl Acetate	7.11	43	2358	1.254	ug/l #	75
49) 1,4-Dioxane	6.86	88	93	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.40	43	7358	5.163	ug/l	91
52) Toluene	7.77	92	6782	1.207	ug/l	94
59) 2-Hexanone	9.62	43	9704	9.845	ug/l	84
74) N-amyl acetate	11.44	43	8279	3.392	ug/l #	94
81) trans-1,4-Dichloro-2-buten	11.93	75	756	1.481	ug/l #	22
95) Naphthalene	14.49	128	16291	2.291	ug/l	96

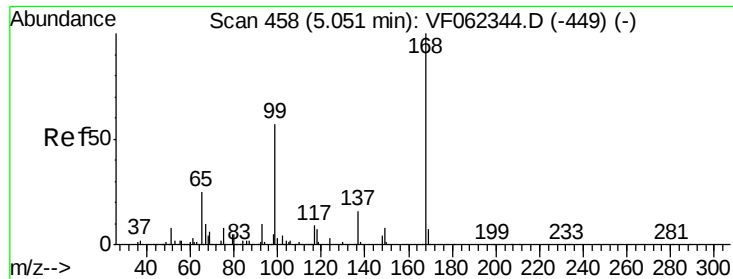
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.04 min Scan# 458

Delta R.T. -0.01 min

Lab File: VF062353.D

Acq: 7 May 2019 13:13

Instrument :

MSVOA_F

ClientSampleId :

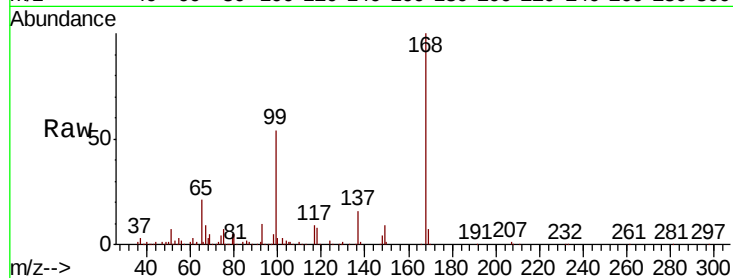
SP-1-A

Tgt Ion:168 Resp: 357557

Ion Ratio Lower Upper

168 100

99 54.0 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

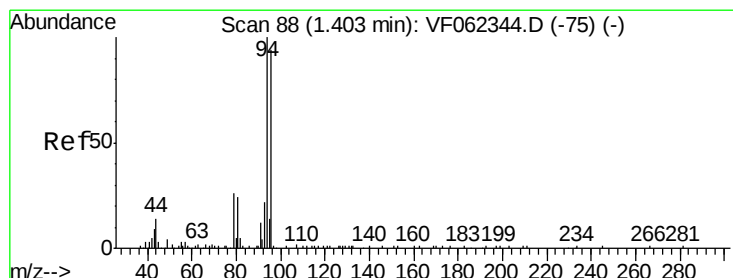
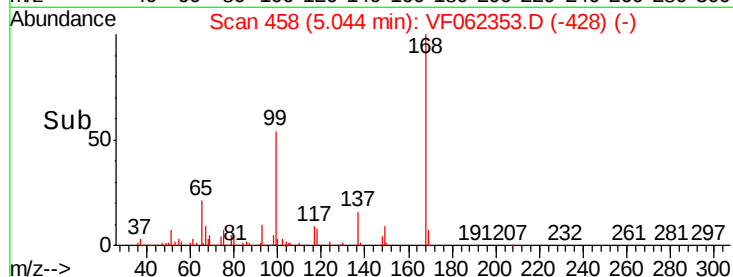
5.04

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.42 min Scan# 90

Delta R.T. 0.01 min

Lab File: VF062353.D

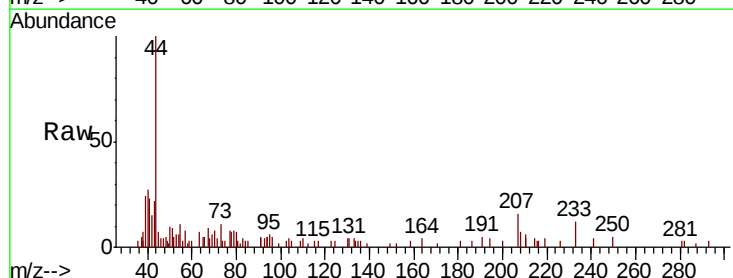
Acq: 7 May 2019 13:13

Tgt Ion: 94 Resp: 889

Ion Ratio Lower Upper

94 100

96 8.4 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

500

400

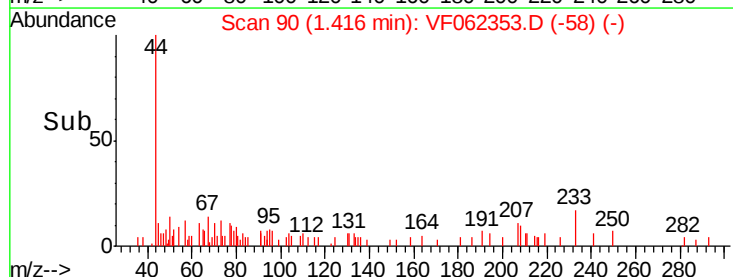
300

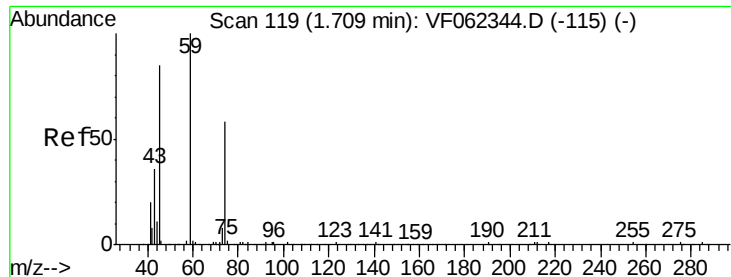
200

100

0

Time-->





#8

Diethyl Ether

Concen: 2.311 ug/l

RT: 1.70 min Scan# 119

Delta R.T. -0.01 min

Lab File: VF062353.D

Acq: 7 May 2019 13:13

Instrument :

MSVOA_F

ClientSampleId :

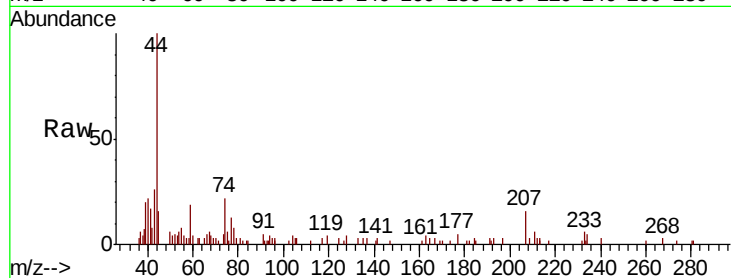
SP-1-A

Tgt Ion: 74 Resp: 1975

Ion Ratio Lower Upper

74 100

45 97.1 73.9 221.6



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

1200

1000

800

600

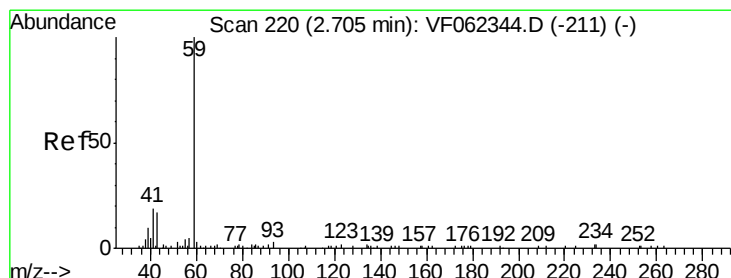
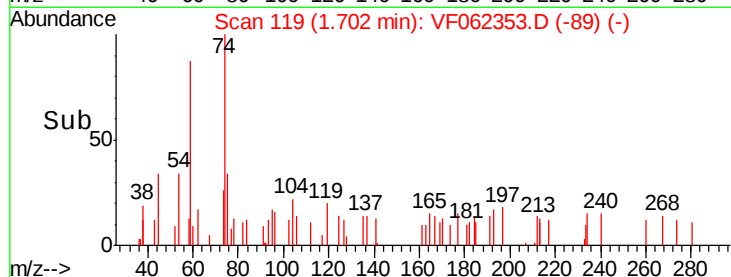
400

200

0

1.60 1.65 1.70 1.75 1.80

Time-->



#11

Tert butyl alcohol

Concen: 8.080 ug/l

RT: 2.69 min Scan# 219

Delta R.T. -0.02 min

Lab File: VF062353.D

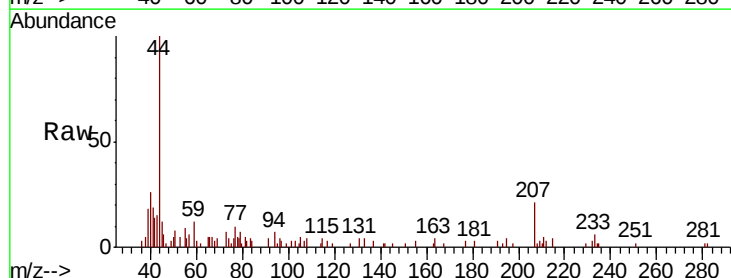
Acq: 7 May 2019 13:13

Tgt Ion: 59 Resp: 1543

Ion Ratio Lower Upper

59 100

57 22.4 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

600

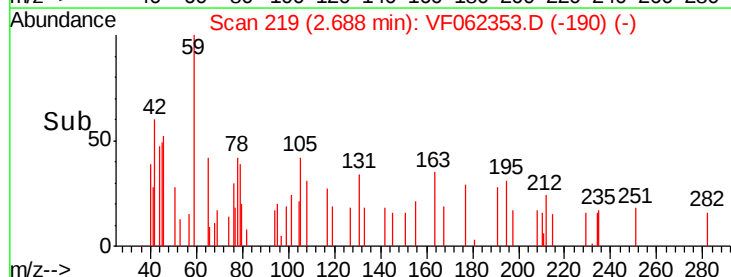
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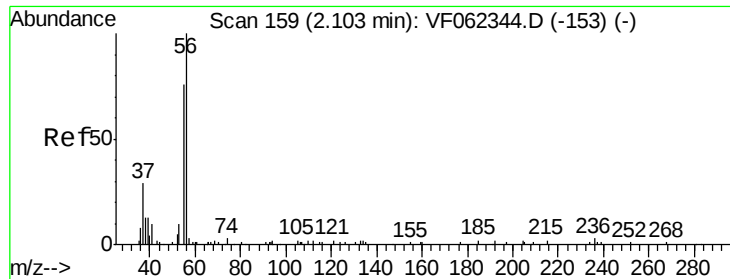
200

0

2.65 2.70 2.75

Time-->

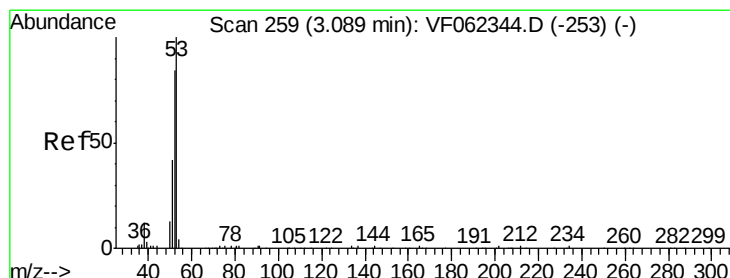
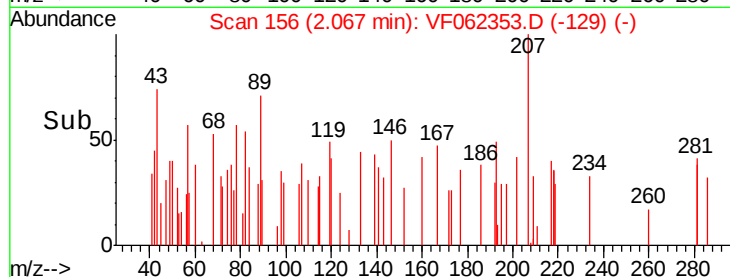
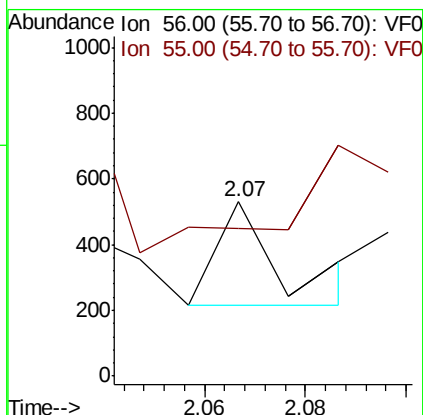
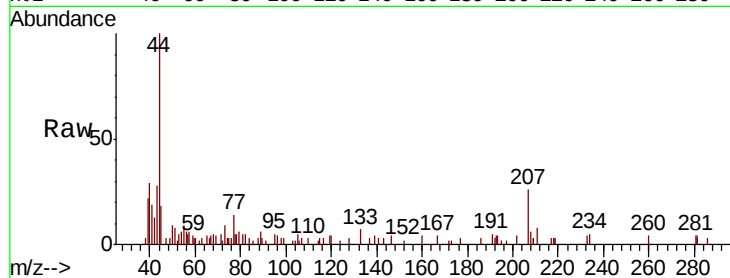




#13
Acrolein
Concen: Below Cal
RT: 2.07 min Scan# 156
Delta R.T. -0.04 min
Lab File: VF062353.D
Acq: 7 May 2019 13:13

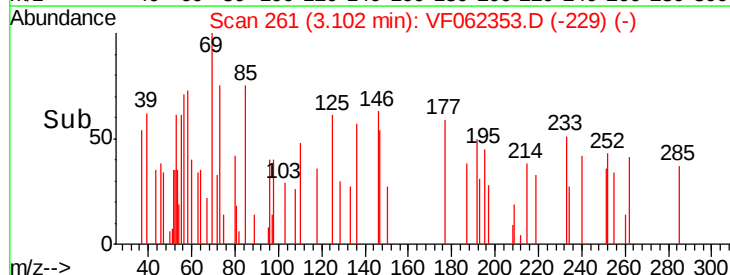
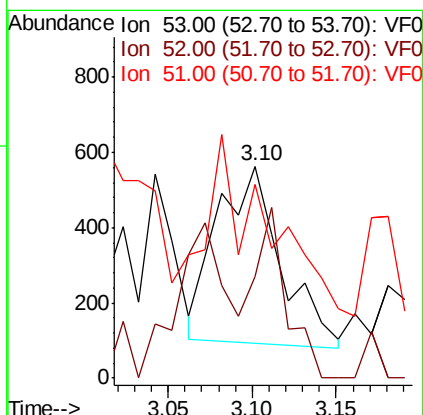
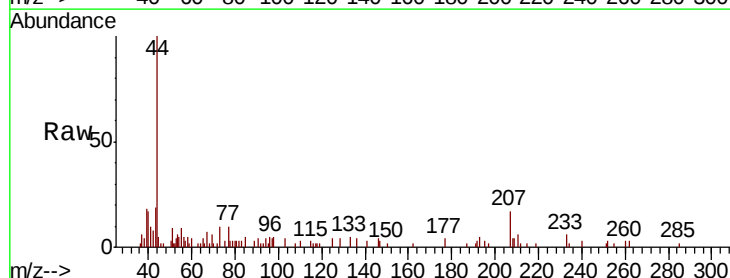
Instrument :
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SP-1-A

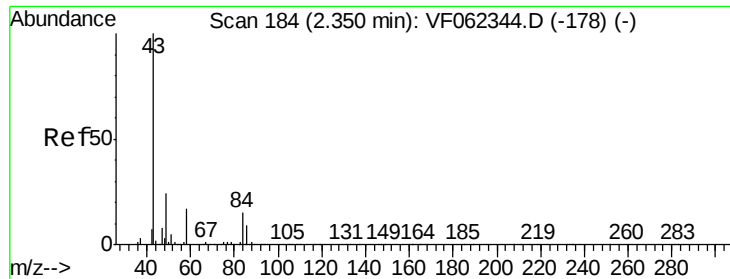
Tgt Ion: 56 Resp: 279
Ion Ratio Lower Upper
56 100
55 190.0 58.4 87.6#



#15
Acrylonitrile
Concen: 3.403 ug/l
RT: 3.10 min Scan# 261
Delta R.T. 0.01 min
Lab File: VF062353.D
Acq: 7 May 2019 13:13

Tgt Ion: 53 Resp: 1231
Ion Ratio Lower Upper
53 100
52 47.4 77.2 115.8#
51 0.0 40.6 61.0#

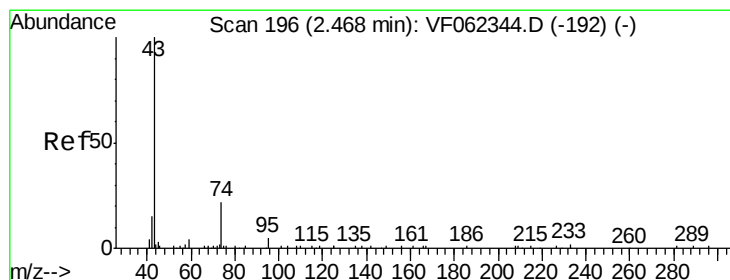
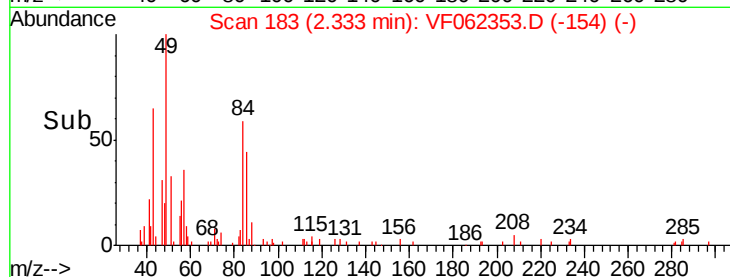
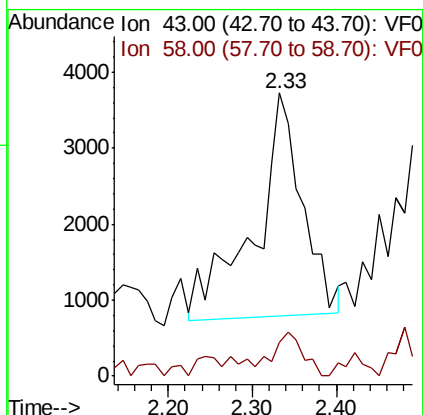
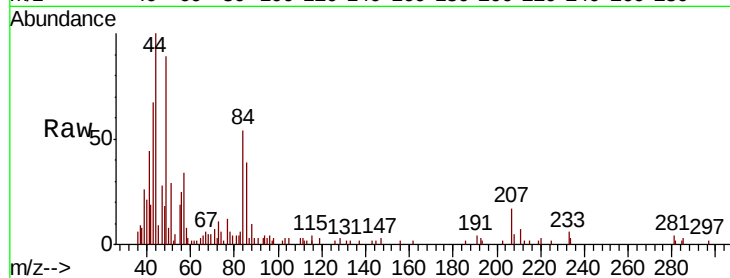




#16
Acetone
Concen: 17.088 ug/l
RT: 2.33 min Scan# 183
Delta R.T. -0.02 min
Lab File: VF062353.D
Acq: 7 May 2019 13:13

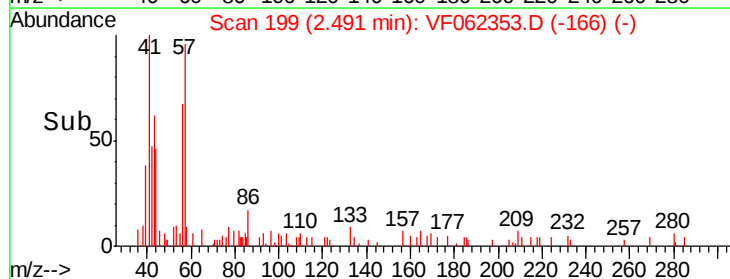
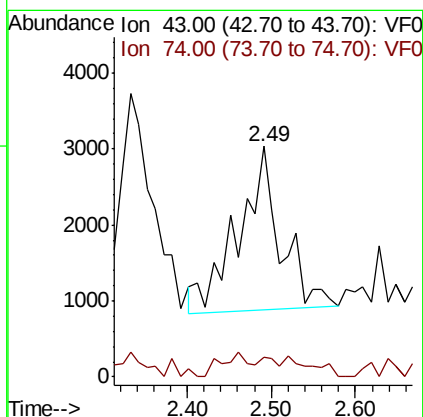
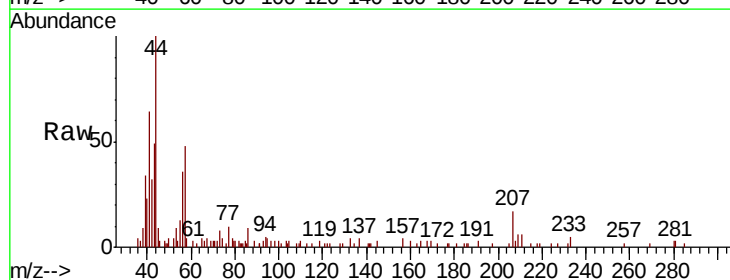
Instrument :
MSVOA_F
ClientSampleId :
SP-1-A

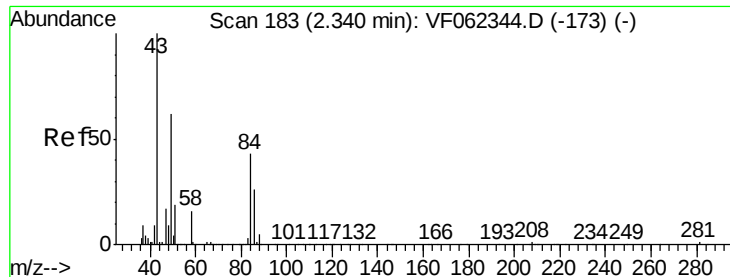
Tgt Ion: 43 Resp: 11681
Ion Ratio Lower Upper
43 100
58 15.2 13.1 19.7



#18
Methyl Acetate
Concen: 3.070 ug/l
RT: 2.49 min Scan# 199
Delta R.T. 0.02 min
Lab File: VF062353.D
Acq: 7 May 2019 13:13

Tgt Ion: 43 Resp: 7492
Ion Ratio Lower Upper
43 100
74 1.8 15.0 22.4#

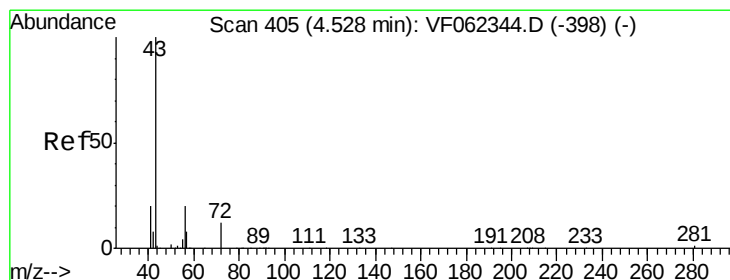
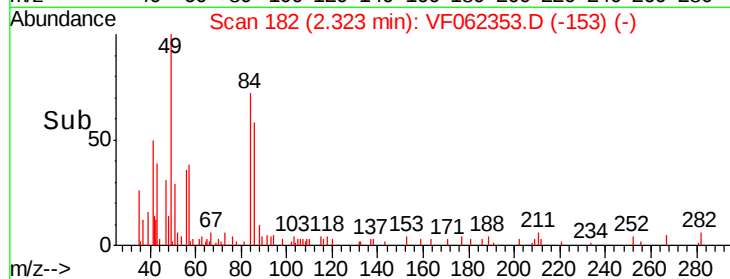
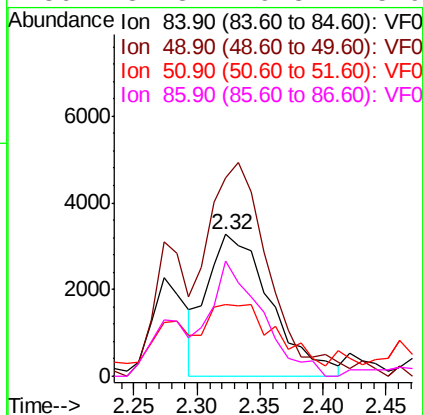
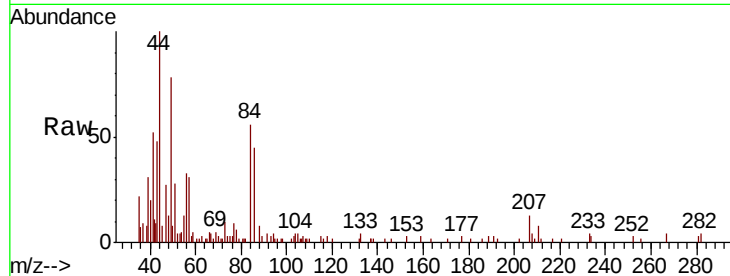




#20
Methylene Chloride
Concen: 4.621 ug/l
RT: 2.32 min Scan# 182
Delta R.T. -0.02 min
Lab File: VF062353.D
Acq: 7 May 2019 13:13

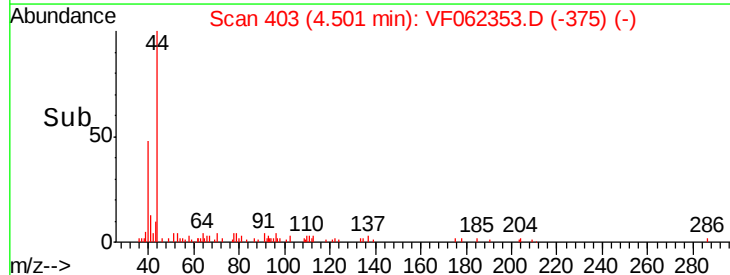
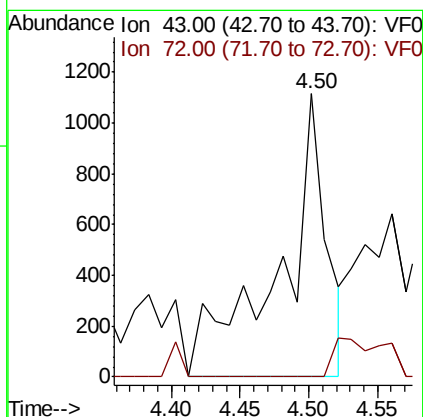
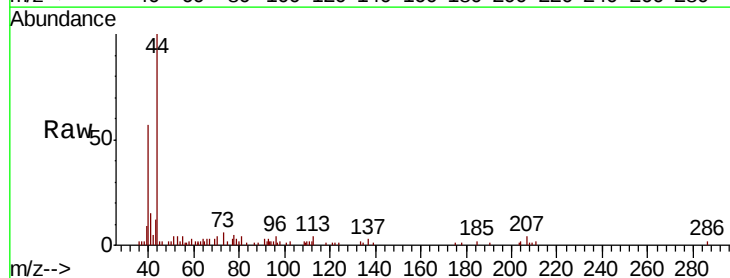
Instrument :
MSVOA_F
ClientSampleId :
SP-1-A

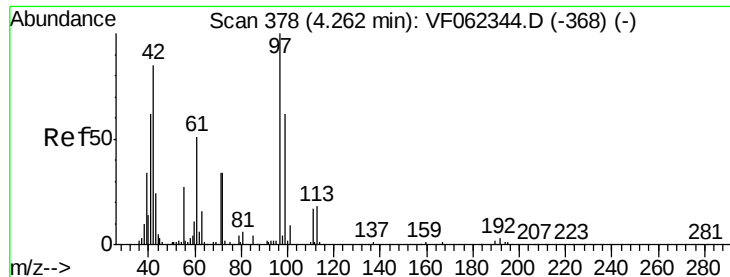
Tgt Ion: 84 Resp: 11428
Ion Ratio Lower Upper
84 100
49 139.4 117.5 176.3
51 34.6 37.0 55.4#
86 87.3 49.3 73.9#



#25
2-Butanone
Concen: 3.039 ug/l
RT: 4.50 min Scan# 403
Delta R.T. -0.03 min
Lab File: VF062353.D
Acq: 7 May 2019 13:13

Tgt Ion: 43 Resp: 2610
Ion Ratio Lower Upper
43 100
72 0.0 14.2 21.4#





#29

Tetrahydrofuran

Concen: 2.716 ug/l

RT: 4.26 min Scan# 378

Delta R.T. -0.01 min

Lab File: VF062353.D

Acq: 7 May 2019 13:13

Instrument :

MSVOA_F

ClientSampleId :

SP-1-A

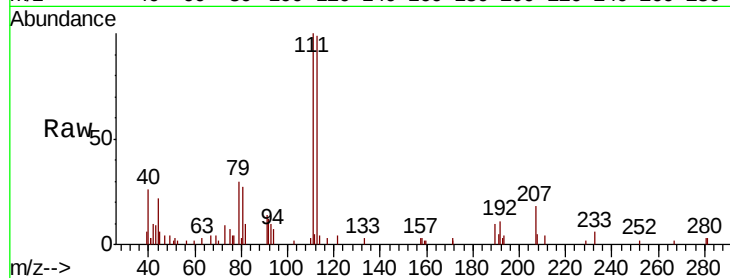
Tgt Ion: 42 Resp: 1072

Ion Ratio Lower Upper

42 100

72 20.9 31.4 47.0#

71 0.0 31.7 47.5#



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

4.26

4.25

4.24

4.23

4.22

4.21

4.20

4.19

4.18

4.17

4.16

4.15

4.14

4.13

4.12

4.11

4.10

4.09

4.08

4.07

4.06

4.05

4.04

4.03

4.02

4.01

4.00

3.99

3.98

3.97

3.96

3.95

3.94

3.93

3.92

3.91

3.90

3.89

3.88

3.87

3.86

3.85

3.84

3.83

3.82

3.81

3.80

3.79

3.78

3.77

3.76

3.75

3.74

3.73

3.72

3.71

3.70

3.69

3.68

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3.11

3.10

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3.07

3.06

3.05

3.04

3.03

3.02

3.01

3.00

2.99

2.98

2.97

2.96

2.95

2.94

2.93

2.92

2.91

2.90

2.89

2.88

2.87

2.86

2.85

2.84

2.83

2.82

2.81

2.80

2.79

2.78

2.77

2.76

2.75

2.74

2.73

2.72

2.71

2.70

2.69

2.68

2.67

2.66

2.65

2.64

2.63

2.62

2.61

2.60

2.59

2.58

2.57

2.56

2.55

2.54

2.53

2.52

2.51

2.50

2.49

2.48

2.47

2.46

2.45

2.44

2.43

2.42

2.41

2.40

2.39

2.38

2.37

2.36

2.35

2.34

2.33

2.32

2.31

2.30

2.29

2.28

2.27

2.26

2.25

2.24

2.23

2.22

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2.19

2.18

2.17

2.16

2.15

2.14

2.13

2.12

2.11

2.10

2.09

2.08

2.07

2.06

2.05

2.04

2.03

2.02

2.01

2.00

1.99

1.98

1.97

1.96

1.95

1.94

1.93

1.92

1.91

1.90

1.89

1.88

1.87

1.86

1.85

1.84

1.83

1.82

1.81

1.80

1.79

1.78

1.77

1.76

1.75

1.74

1.73

1.72

1.71

1.70

1.69

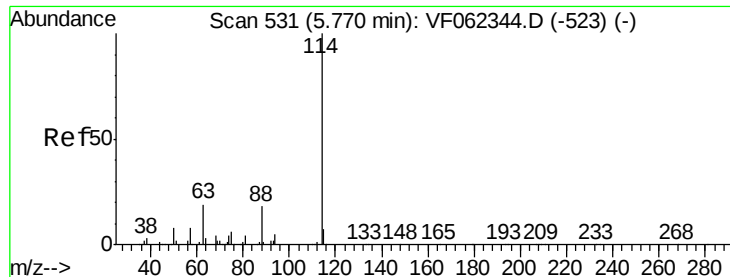
1.68

1.67

1.66

1.65

1.64



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.76 min Scan# 531

Delta R.T. -0.01 min

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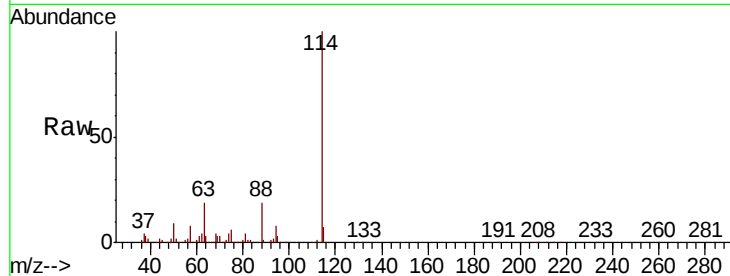
Tgt Ion:114 Resp: 481360

Ion Ratio Lower Upper

114 100

63 19.2 0.0 37.4

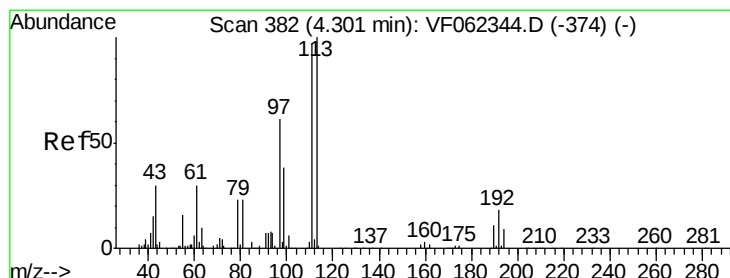
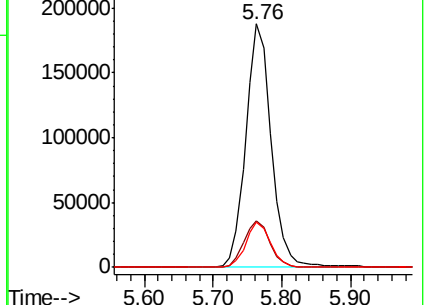
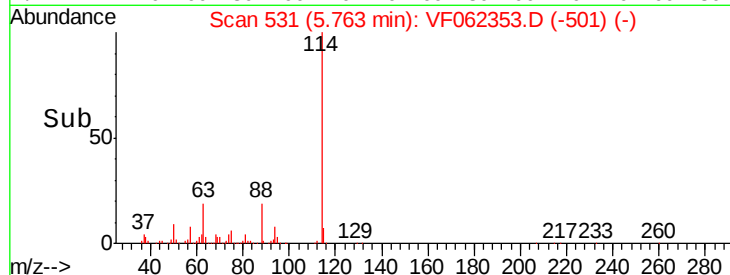
88 18.7 0.0 36.4



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: 43.632 ug/l

RT: 4.29 min Scan# 382

Delta R.T. -0.01 min

Lab File: VF062353.D

Acq: 7 May 2019 13:13

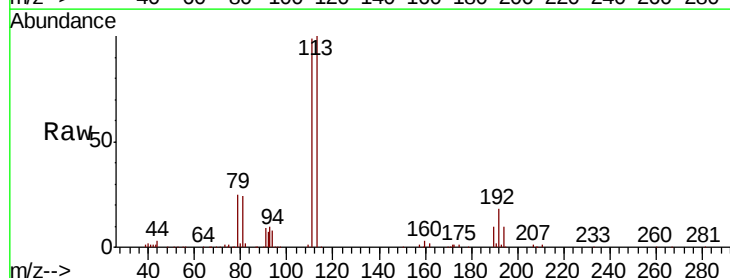
Tgt Ion:113 Resp: 167324

Ion Ratio Lower Upper

113 100

111 100.4 79.4 119.0

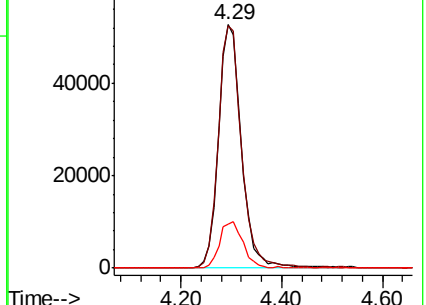
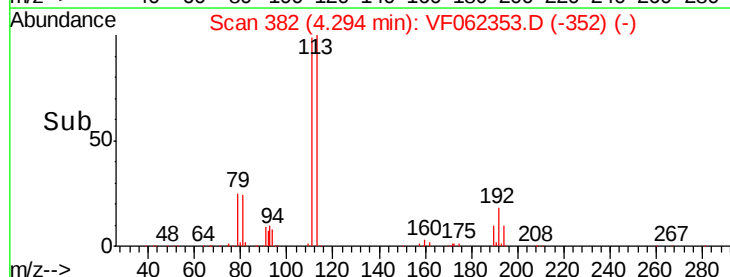
192 19.3 16.0 24.0

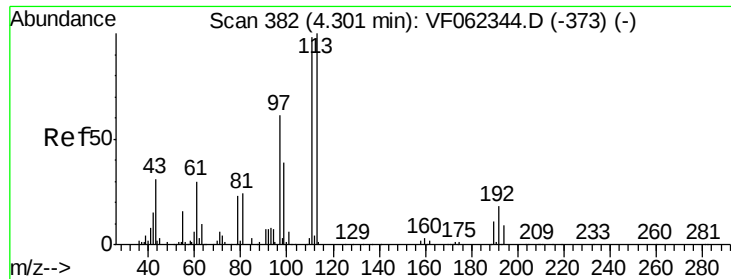


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

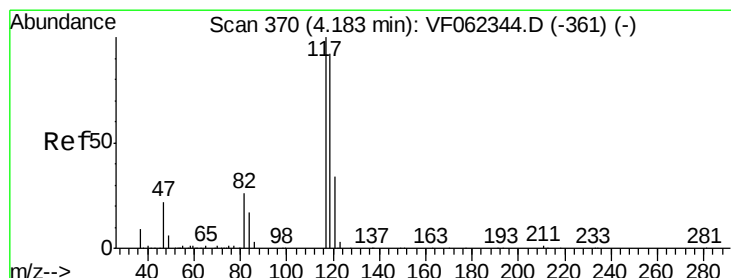
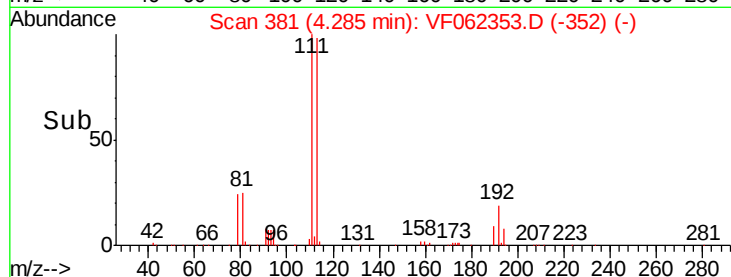
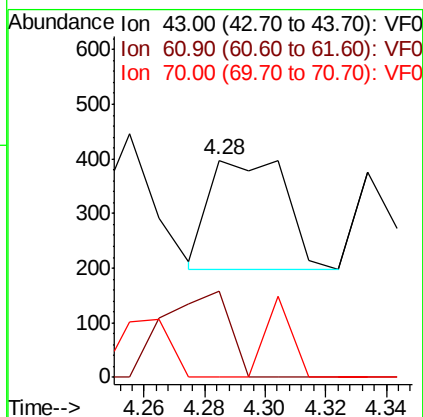
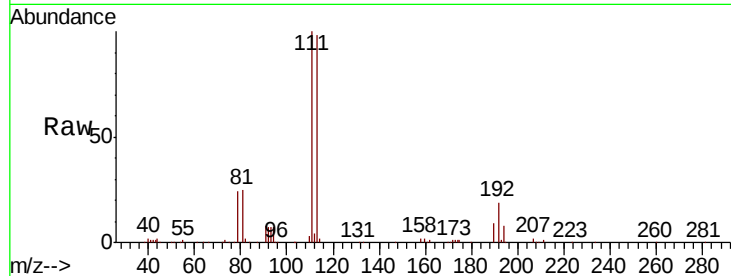




#37
Ethyl Acetate
Concen: Below Cal
RT: 4.28 min Scan# 381
Delta R.T. -0.02 min
Lab File: VF062353.D
Acq: 7 May 2019 13:13

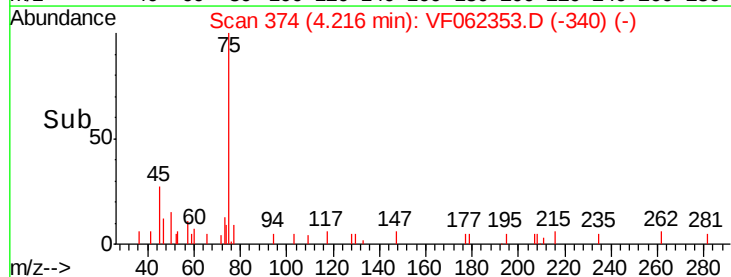
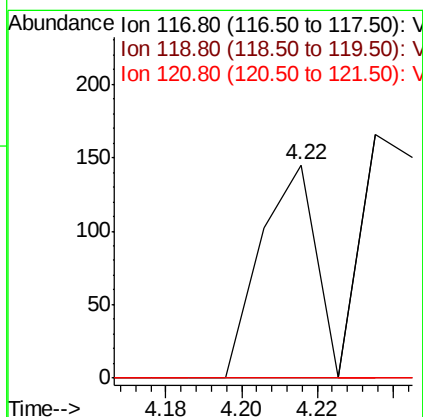
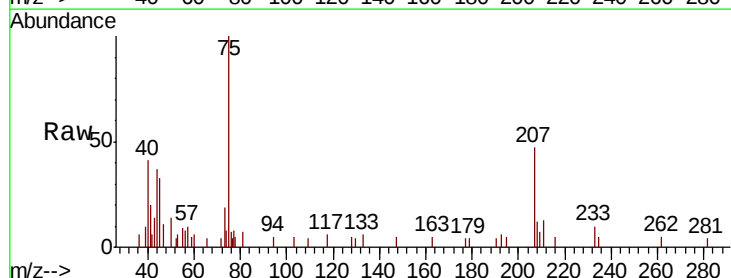
Instrument :
MSVOA_F
ClientSampleId :
SP-1-A

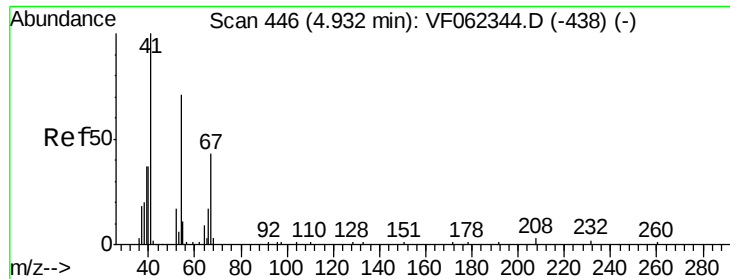
Tgt Ion: 43 Resp: 354
Ion Ratio Lower Upper
43 100
61 67.2 0.0 0.0#
70 34.5 8.2 12.2#



#38
Carbon Tetrachloride
Concen: Below Cal
RT: 4.22 min Scan# 374
Delta R.T. 0.03 min
Lab File: VF062353.D
Acq: 7 May 2019 13:13

Tgt Ion: 117 Resp: 146
Ion Ratio Lower Upper
117 100
119 0.0 73.4 110.2#
121 0.0 27.4 41.0#

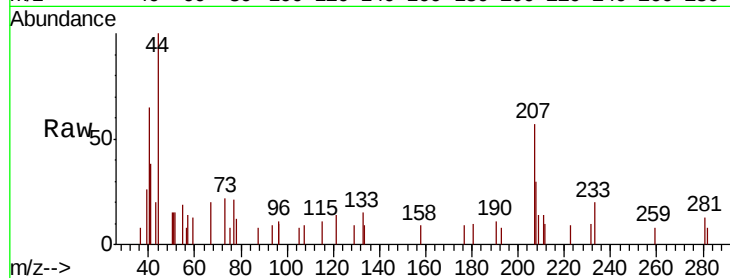




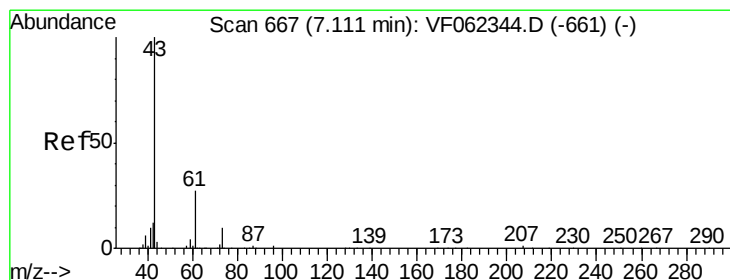
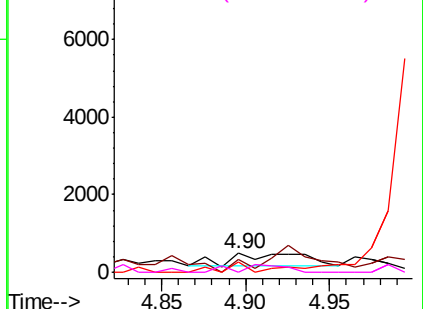
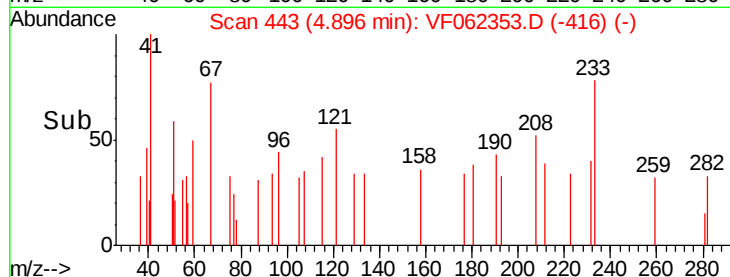
#41
Methacrylonitrile
Concen: 1.003 ug/l
RT: 4.90 min Scan# 443
Delta R.T. -0.04 min
Lab File: VF062353.D
Acq: 7 May 2019 13:13

Instrument :
MSVOA_F
ClientSampled :
SP-1-A

Tgt Ion: 41 Resp: 994
Ion Ratio Lower Upper
41 100
39 0.0 54.3 81.5#
67 0.0 37.8 56.8#
52 39.1 58.2 87.4#

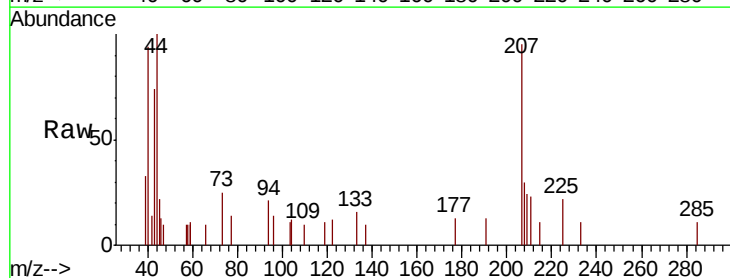


Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0
Ion 67.00 (66.70 to 67.70): VF0
Ion 52.00 (51.70 to 52.70): VF0

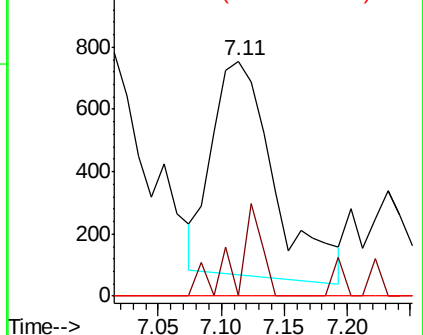
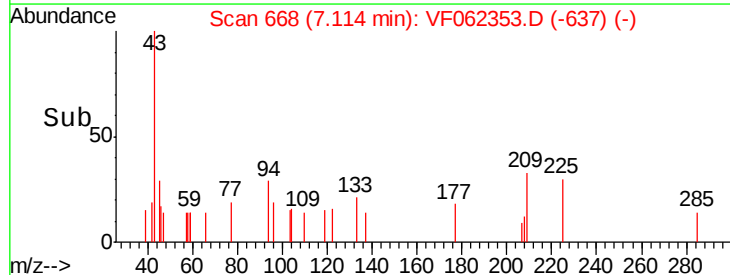


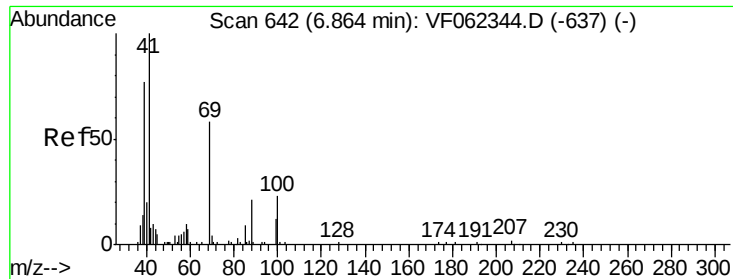
#43
Isopropyl Acetate
Concen: 1.254 ug/l
RT: 7.11 min Scan# 668
Delta R.T. 0.00 min
Lab File: VF062353.D
Acq: 7 May 2019 13:13

Tgt Ion: 43 Resp: 2358
Ion Ratio Lower Upper
43 100
61 15.1 22.8 34.2#
87 0.0 0.6 1.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 87.00 (86.70 to 87.70): VF0

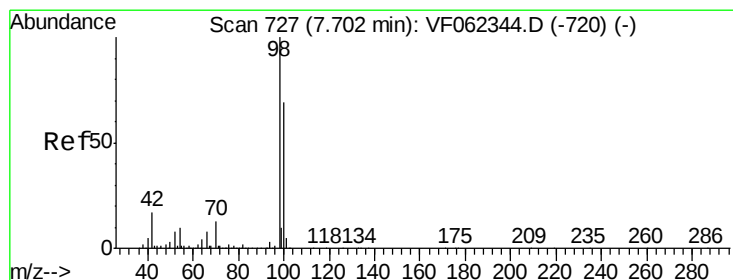
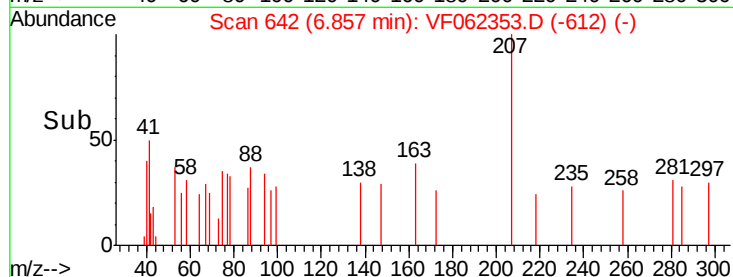
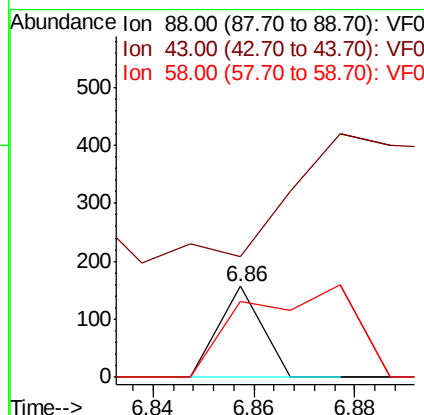
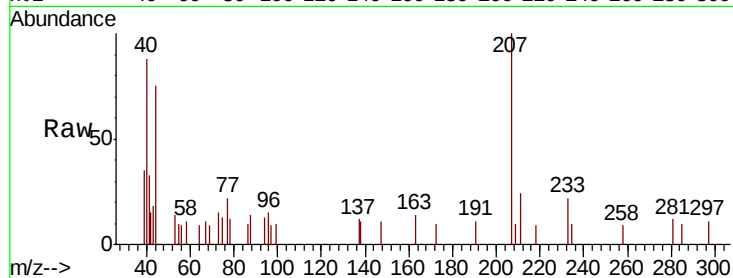




#49
1,4-Dioxane
Concen: Below Cal
RT: 6.86 min Scan# 642
Delta R.T. -0.01 min
Lab File: VF062353.D
Acq: 7 May 2019 13:13

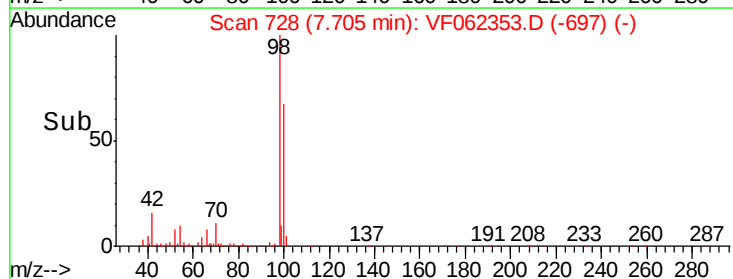
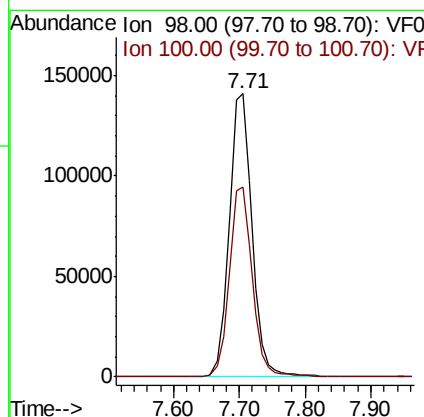
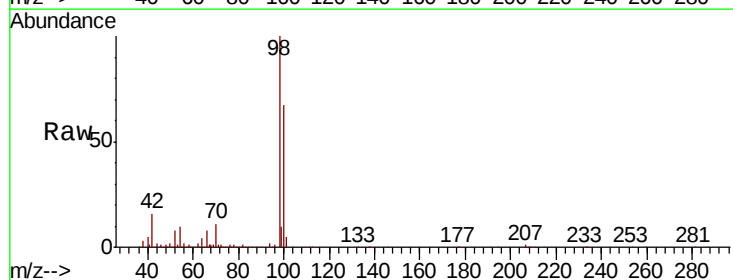
Instrument :
MSVOA_F
ClientSampleId :
SP-1-A

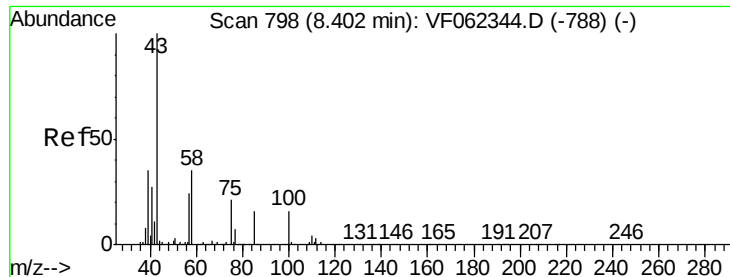
Tgt Ion: 88 Resp: 93
Ion Ratio Lower Upper
88 100
43 549.5 55.6 83.4#
58 257.0 52.8 79.2#



#50
Toluene-d8
Concen: 37.010 ug/l
RT: 7.71 min Scan# 728
Delta R.T. 0.00 min
Lab File: VF062353.D
Acq: 7 May 2019 13:13

Tgt Ion: 98 Resp: 343564
Ion Ratio Lower Upper
98 100
100 67.5 53.3 79.9





#51

4-Methyl-2-Pentanone

Concen: 5.163 ug/l

RT: 8.40 min Scan# 798

Delta R.T. -0.01 min

Lab File: VF062353.D

Acq: 7 May 2019 13:13

Instrument :

MSVOA_F

ClientSampled :

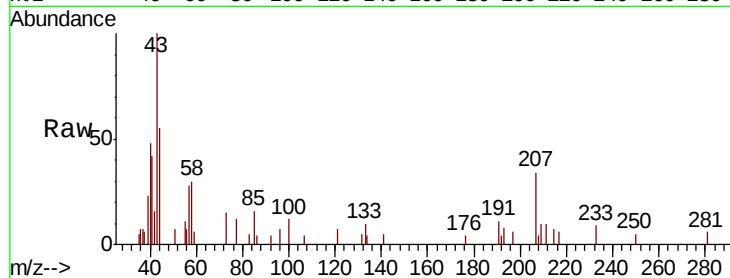
SP-1-A

Tgt Ion: 43 Resp: 7358

Ion Ratio Lower Upper

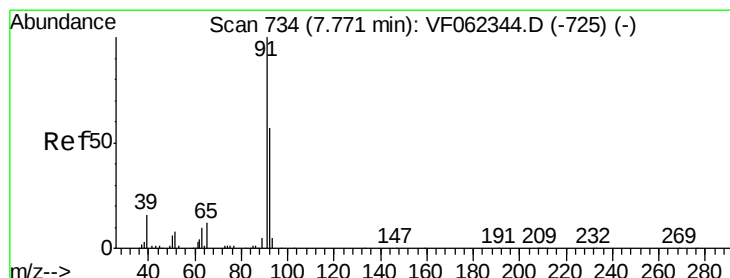
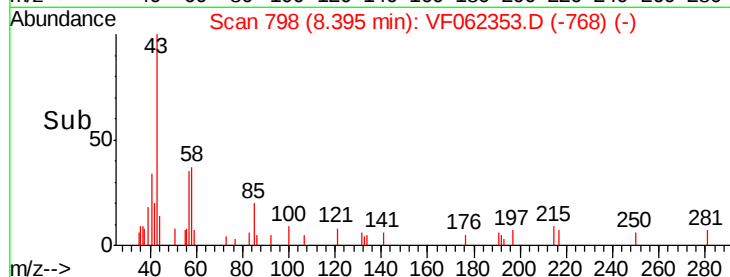
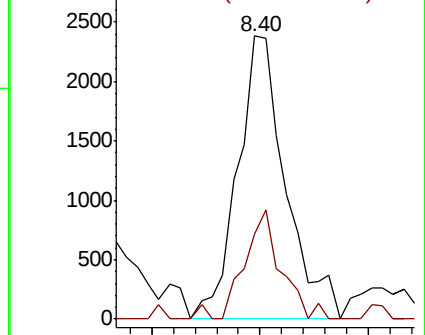
43 100

58 29.6 27.8 41.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 1.207 ug/l

RT: 7.77 min Scan# 735

Delta R.T. 0.00 min

Lab File: VF062353.D

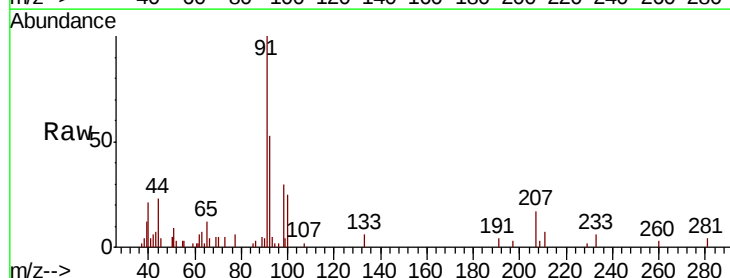
Acq: 7 May 2019 13:13

Tgt Ion: 92 Resp: 6782

Ion Ratio Lower Upper

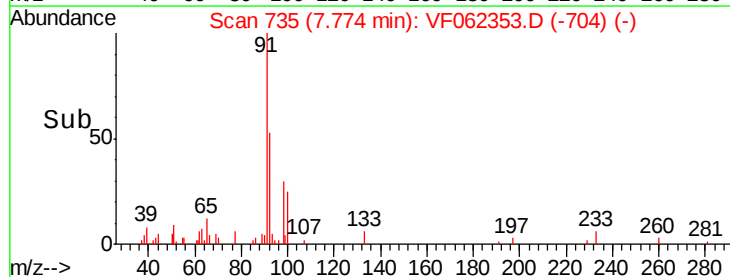
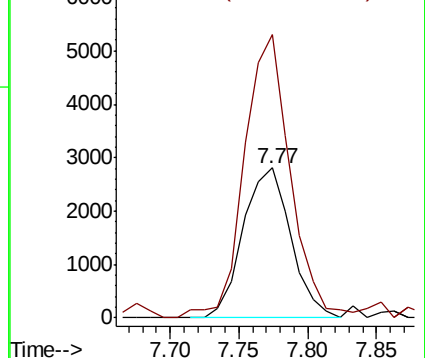
92 100

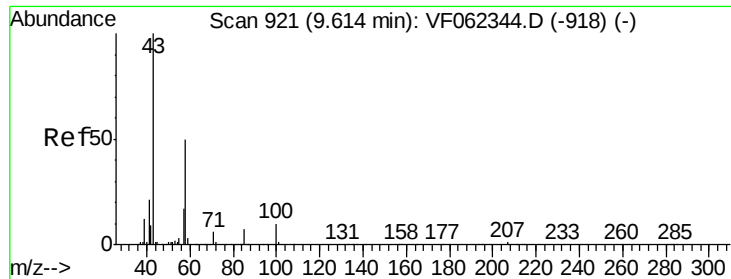
91 181.8 138.7 208.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

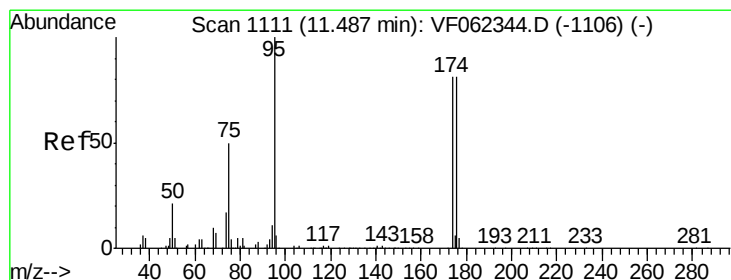
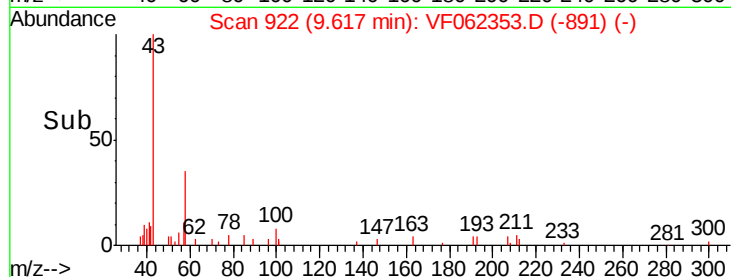
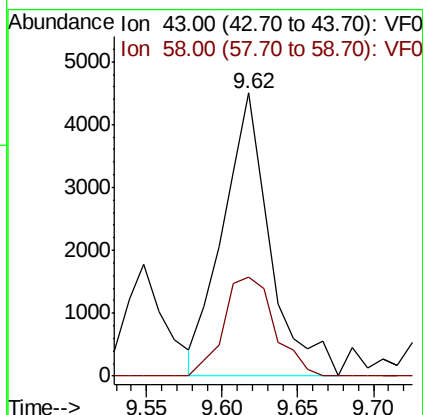
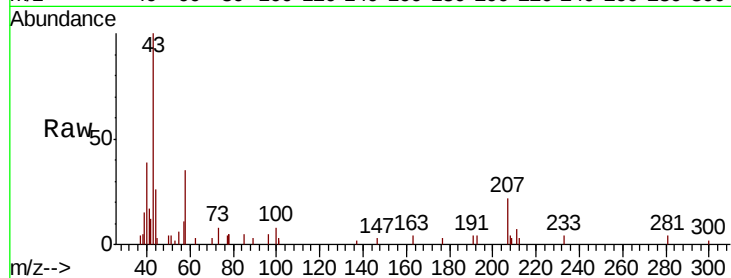




#59
2-Hexanone
Concen: 9.845 ug/l
RT: 9.62 min Scan# 922
Delta R.T. 0.00 min
Lab File: VF062353.D
Acq: 7 May 2019 13:13

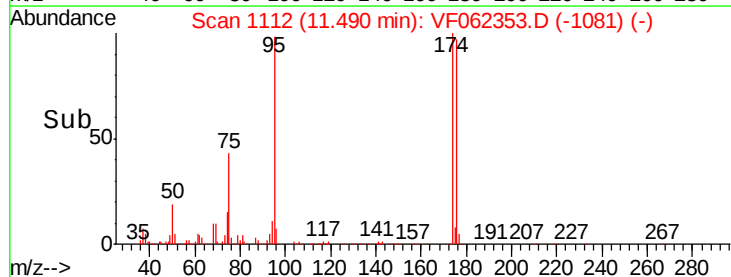
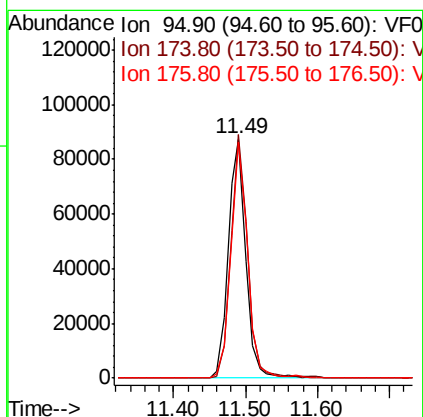
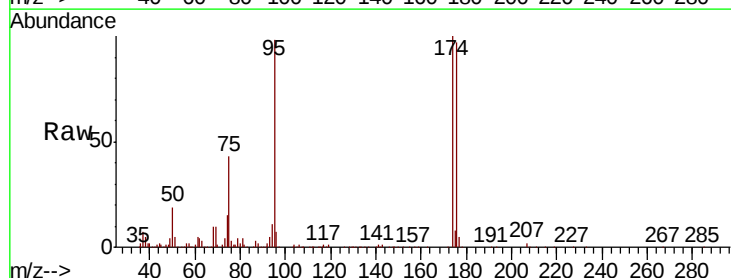
Instrument :
MSVOA_F
ClientSampled :
SP-1-A

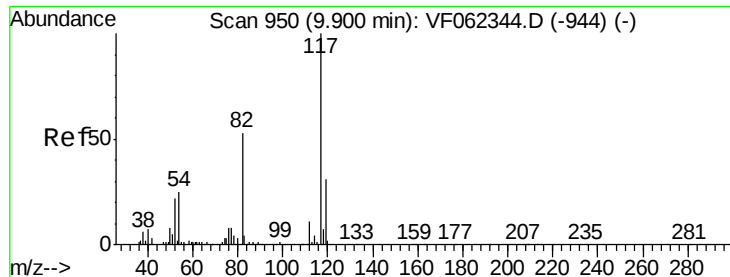
Tgt Ion: 43 Resp: 9704
Ion Ratio Lower Upper
43 100
58 38.1 24.3 73.0



#62
4-Bromofluorobenzene
Concen: 35.210 ug/l
RT: 11.49 min Scan# 1112
Delta R.T. 0.00 min
Lab File: VF062353.D
Acq: 7 May 2019 13:13

Tgt Ion: 95 Resp: 147463
Ion Ratio Lower Upper
95 100
174 97.1 0.0 191.8
176 95.5 0.0 193.2

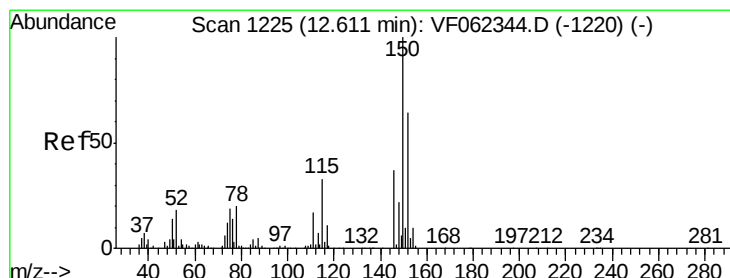
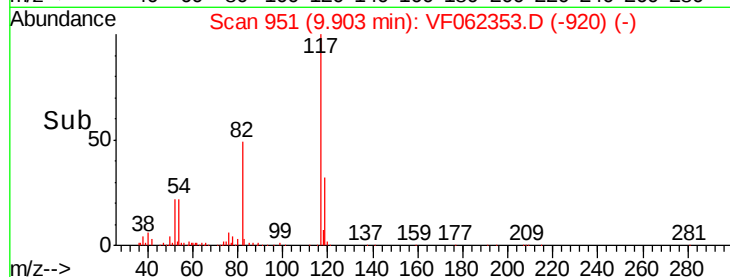
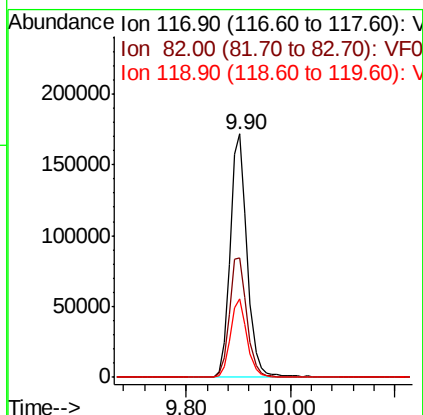
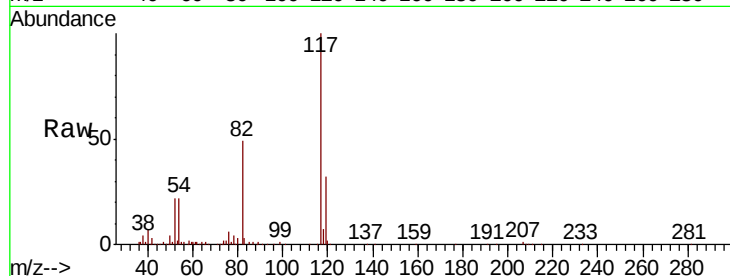




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.90 min Scan# 951
Delta R.T. 0.00 min
Lab File: VF062353.D
Acq: 7 May 2019 13:13

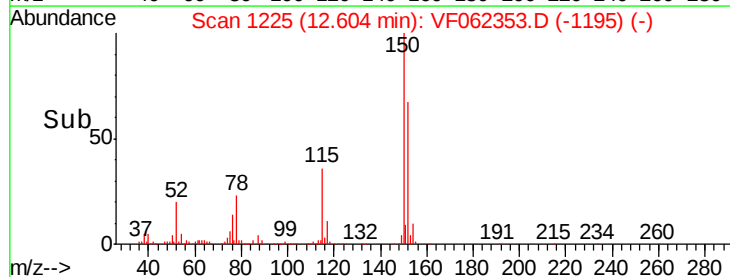
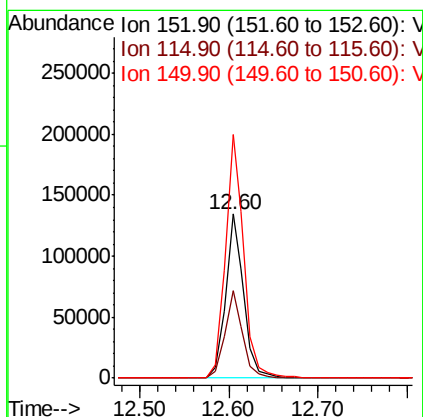
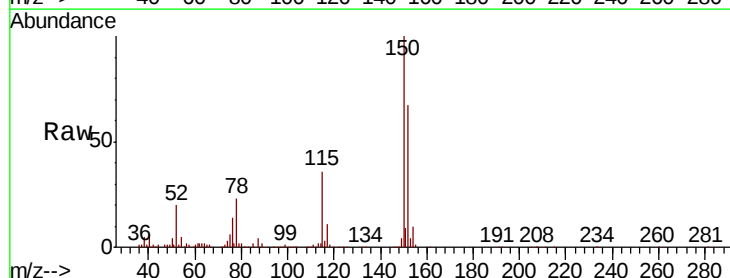
Instrument :
MSVOA_F
ClientSampleId :
SP-1-A

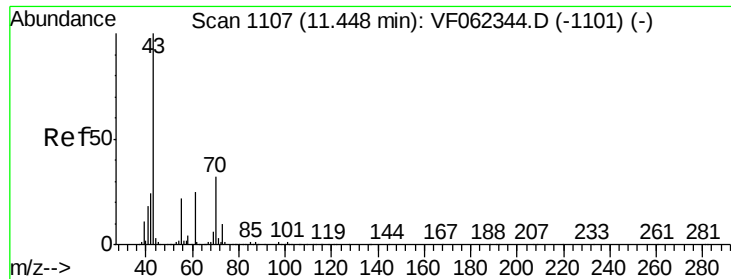
Tgt Ion	Ratio	Lower	Upper
117	100		
82	49.2	42.2	63.2
119	32.5	25.0	37.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.60 min Scan# 1225
Delta R.T. -0.01 min
Lab File: VF062353.D
Acq: 7 May 2019 13:13

Tgt Ion	Ratio	Lower	Upper
152	100		
115	52.6	26.4	79.2
150	151.4	0.0	335.0





#74

N-amyI acetate

Concen: 3.392 ug/l

RT: 11.44 min Scan# 1107

Delta R.T. -0.01 min

Lab File: VF062353.D

Acq: 7 May 2019 13:13

Instrument :

MSVOA_F

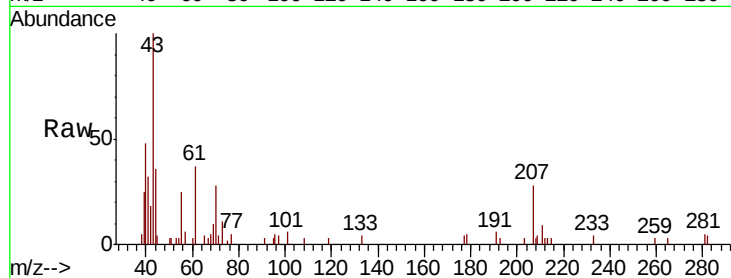
ClientSampleId :

SP-1-A

Tgt Ion: 43 Resp: 8279

Ion Ratio Lower Upper

43	100		
70	29.1	26.5	39.7
55	26.9	17.8	26.6
61	25.3	20.2	30.2



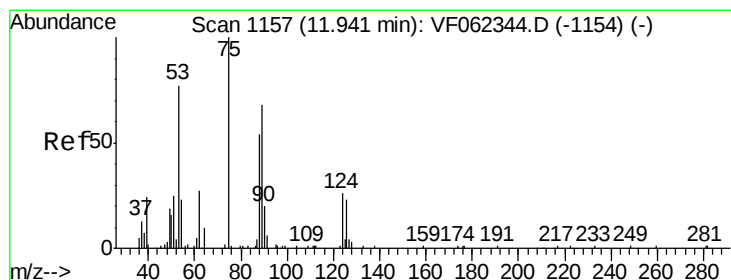
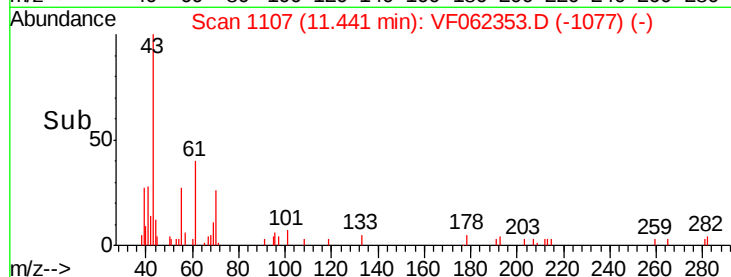
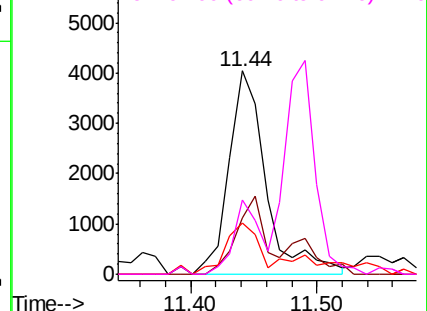
Abundance

Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#81

trans-1,4-Dichloro-2-butene

Concen: 1.481 ug/l

RT: 11.93 min Scan# 1157

Delta R.T. -0.01 min

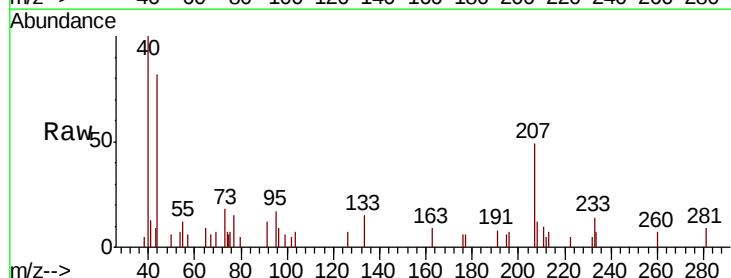
Lab File: VF062353.D

Acq: 7 May 2019 13:13

Tgt Ion: 75 Resp: 756

Ion Ratio Lower Upper

75	100		
53	16.5	71.9	107.9
89	0.0	0.0	0.0

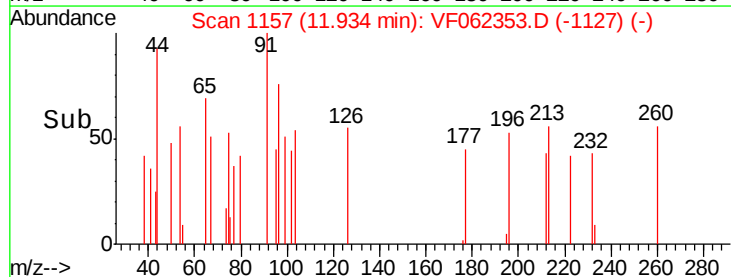
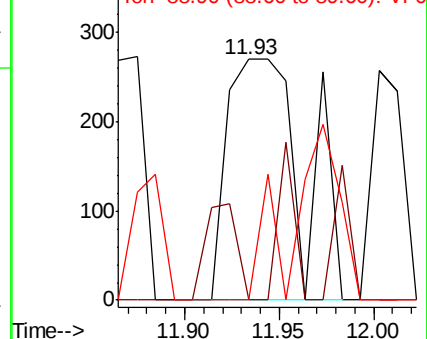


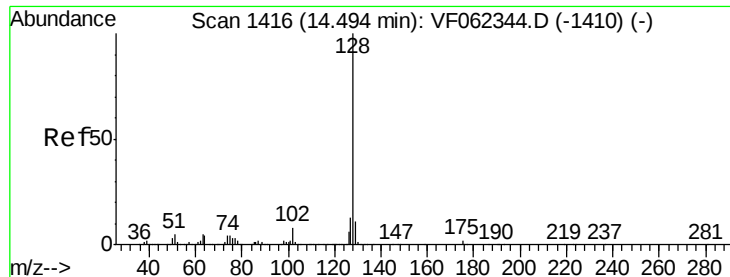
Abundance

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





#95

Naphthalene

Concen: 2.291 ug/l

RT: 14.49 min Scan# 1416

Delta R.T. -0.01 min

Lab File: VF062353.D

Acq: 7 May 2019 13:13

Instrument :

MSVOA_F

ClientSampleId :

SP-1-A

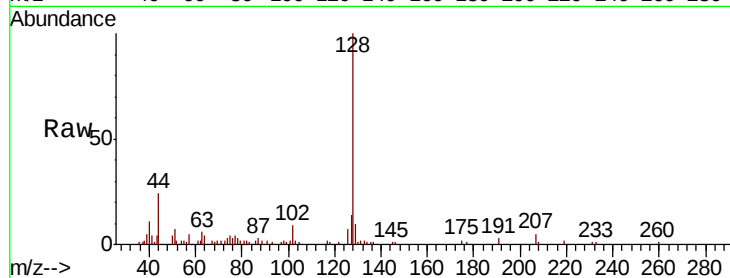
Tgt Ion:128 Resp: 16291

Ion Ratio Lower Upper

128 100

127 14.6 10.5 15.7

129 12.2 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

