

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF080118\
 Data File : VF059772.D
 Acq On : 1 Aug 2018 22:56
 Operator : VA/AP
 Sample : J4257-04
 Misc : 11.30g/5mL/MSVOA F/SOIL
 ALS Vial : 100 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 FK-BPM-03-001-B

Quant Time: Aug 02 05:33:20 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F073018S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 31 15:23:22 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	691	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.60	114	71	50.00	ug/l	-0.16
63) Chlorobenzene-d5	9.72	117	99	50.00	ug/l	-0.19
72) 1,4-Dichlorobenzene-d4	12.63	152	326	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.00	65	137	11.03	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	22.06%	
35) Dibromofluoromethane	4.29	113	79	107.13	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	214.26%	
50) Toluene-d8	7.43	98	60	34.89	ug/l	-0.27
Spiked Amount				50.000		
			Recovery	=	69.78%	
62) 4-Bromofluorobenzene	0.00	95	0	0.00	ug/l	
Spiked Amount				50.000		
			Recovery	=	0.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	0.92	50	67	13.06	ug/l #	1
4) Vinyl Chloride	1.18	62	61	11.41	ug/l #	47
6) Chloroethane	1.40	64	69	24.24	ug/l #	35
7) Trichlorofluoromethane	1.66	101	62	4.80	ug/l #	18
8) Diethyl Ether	1.68	74	84	38.07	ug/l #	1
9) 1,1,2-Trichlorotrifluoroet	1.77	101	59	8.73	ug/l #	22
10) Methyl Iodide	1.90	142	60	2.74	ug/l #	20
11) Tert butyl alcohol	2.71	59	99	197.41	ug/l #	74
12) 1,1-Dichloroethene	1.92	96	155	28.97	ug/l #	1
13) Acrolein	2.13	56	80	301.49	ug/l #	4
14) Allyl chloride	2.19	41	79	9.25	ug/l #	1
16) Acetone	2.35	43	69	30.89	ug/l #	68
17) Carbon Disulfide	1.76	76	77	1.70	ug/l #	71
18) Methyl Acetate	2.46	43	72	17.54	ug/l #	64
19) Methyl tert-butyl Ether	2.47	73	77	4.72	ug/l #	60
20) Methylene Chloride	2.32	84	77	10.15	ug/l #	1
21) trans-1,2-Dichloroethene	2.47	96	143	29.48	ug/l #	1
22) Diisopropyl ether	2.89	45	84	4.65	ug/l #	33
23) Vinyl Acetate	3.34	43	183	19.70	ug/l #	83
25) 2-Butanone	4.55	43	153	61.38	ug/l #	74
26) 2,2-Dichloropropane	3.78	77	143	15.98	ug/l #	66
27) cis-1,2-Dichloroethene	3.60	96	61	9.07	ug/l #	1
28) Bromochloromethane	3.88	49	72	13.09	ug/l #	15
29) Tetrahydrofuran	4.25	42	144	150.29	ug/l #	39
31) Cyclohexane	3.79	56	63	6.79	ug/l #	15
37) Ethyl Acetate	4.19	43	80	243.75	ug/l #	19
40) Benzene	4.75	78	85	59.28	ug/l #	52
41) Methacrylonitrile	4.74	41	227	1342.66	ug/l #	24
42) 1,2-Dichloroethane	5.01	62	65	64.78	ug/l	85
43) Isopropyl Acetate	6.91	43	96	226.12	ug/l #	46
45) 1,2-Dichloropropane	6.21	63	93	245.61	ug/l #	43
46) Dibromomethane	6.02	93	85	236.44	ug/l #	8
47) Bromodichloromethane	6.22	83	89	90.91	ug/l #	25
48) Methyl methacrylate	6.70	41	247	773.49	ug/l #	13

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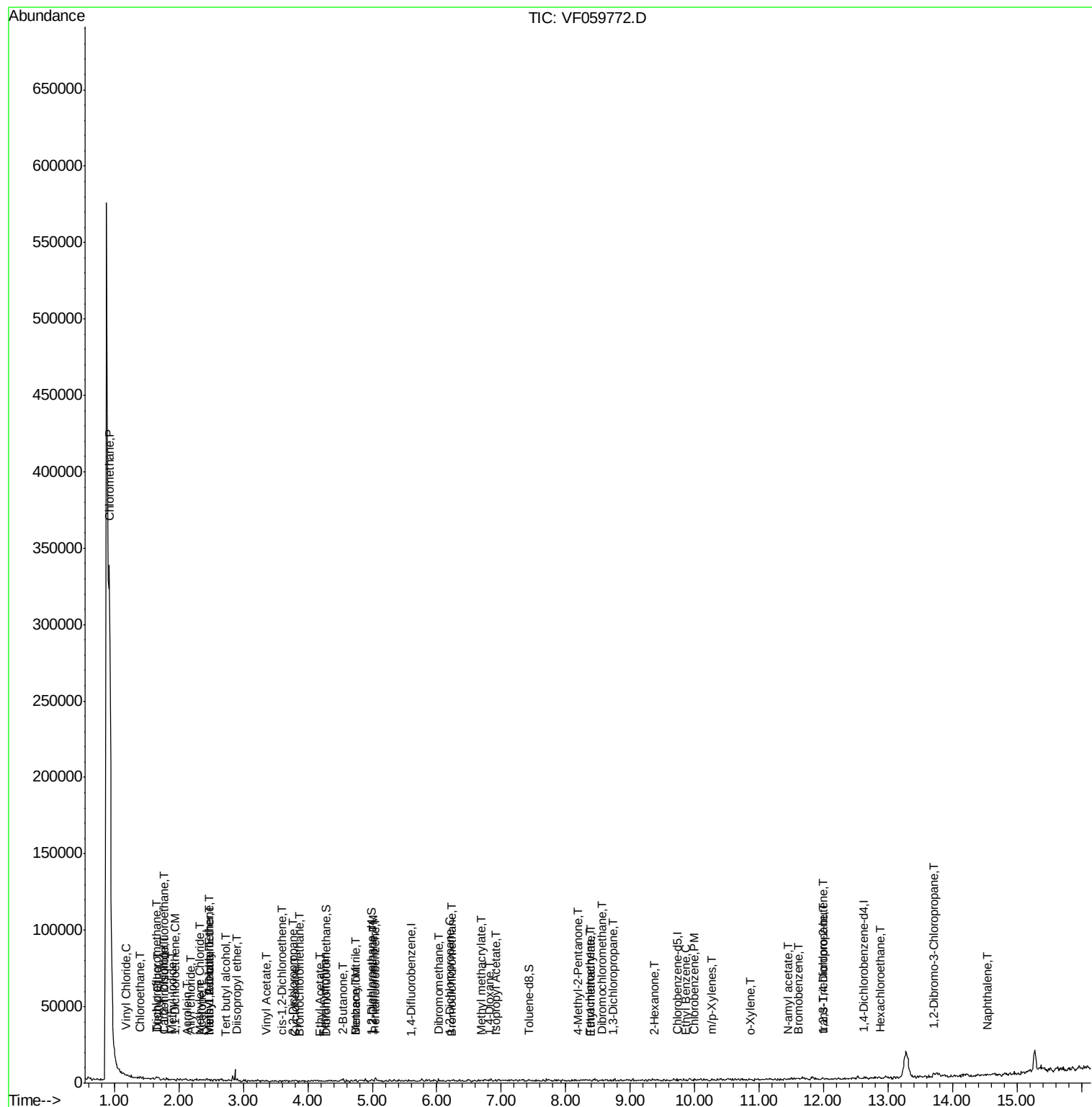
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) 1,4-Dioxane	6.81	88	70	12837.78	ug/l #	21
51) 4-Methyl-2-Pentanone	8.19	43	151	467.56	ug/l #	42
56) Ethyl methacrylate	8.39	69	208	513.61	ug/l #	53
57) 1,3-Dichloropropane	8.73	76	80	120.09	ug/l #	41
59) 2-Hexanone	9.38	43	163	629.83	ug/l #	30
60) Dibromochloromethane	8.57	129	71	103.62	ug/l #	12
64) Tetrachloroethene	8.38	164	64	100.20	ug/l #	1
65) Chlorobenzene	9.99	112	69	34.84	ug/l #	43
67) Ethyl Benzene	9.88	91	70	20.43	ug/l #	46
68) m/p-Xylenes	10.26	106	60	52.29	ug/l #	1
69) o-Xylene	10.86	106	65	51.48	ug/l #	1
74) N-amyl acetate	11.45	43	215	39.84	ug/l #	48
76) 1,2,3-Trichloropropane	11.99	75	82	23.95	ug/l #	39
77) Bromobenzene	11.60	156	61	10.92	ug/l #	1
78) n-propylbenzene	11.65	91	69	Below	Cal #	54
81) trans-1,4-Dichloro-2-buten	11.99	75	82	57.83	ug/l #	9
84) 1,2,4-Trimethylbenzene	12.23	105	66	Below	Cal #	33
85) sec-Butylbenzene	12.23	105	66	Below	Cal #	57
86) p-Isopropyltoluene	12.55	119	69	Below	Cal #	49
89) n-Butylbenzene	12.78	91	70	Below	Cal #	29
90) Hexachloroethane	12.88	117	88	16.31	ug/l #	18
92) 1,2-Dibromo-3-Chloropropan	13.70	75	248	251.95	ug/l #	9
95) Naphthalene	14.54	128	429	30.52	ug/l #	70

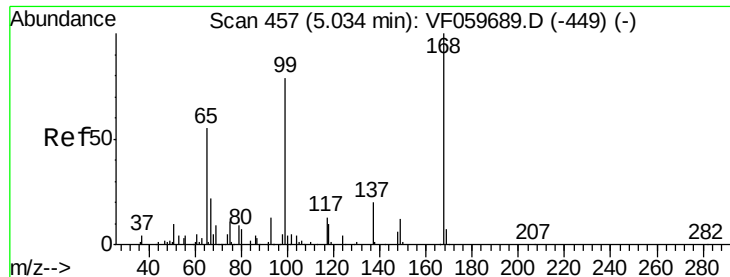
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.05 min Scan# 458

Delta R.T. 0.02 min

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Acq: 1 Aug 2018 22:56

Instrument :

MSVOA_F

ClientSampleId :

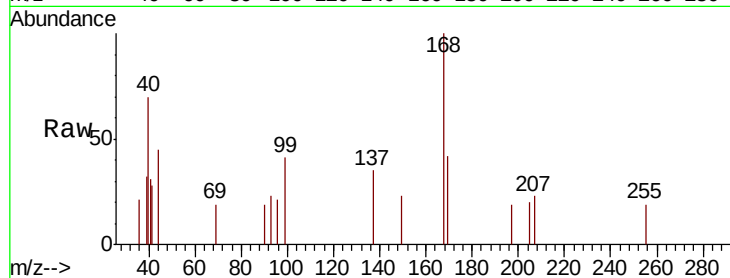
FK-BPM-03-001-B

Tot Ion:168 Resp: 691

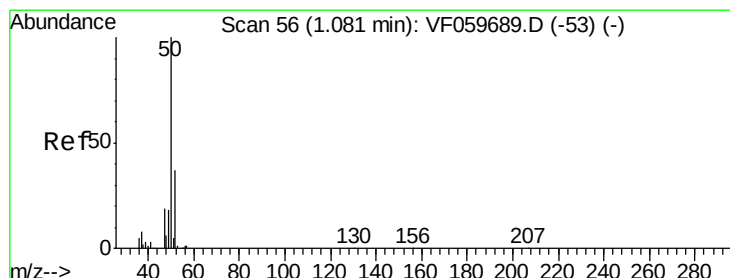
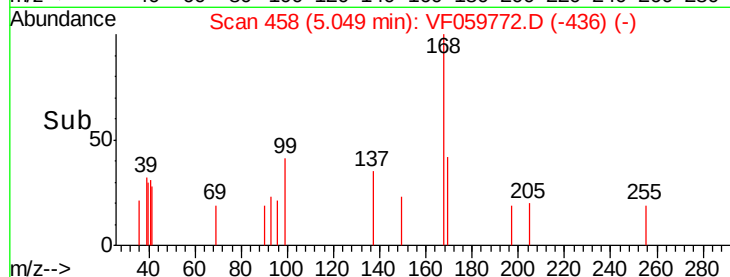
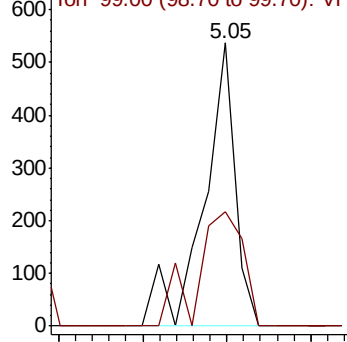
Ion Ratio Lower Upper

168 100

99 40.6 63.3 94.9#



Abundance Ion 168.00 (167.70 to 168.70): VF0



#3

Chloromethane

Concen: 13.06 ug/l

RT: 0.92 min Scan# 39

Delta R.T. -0.16 min

Lab File: VF059772.D

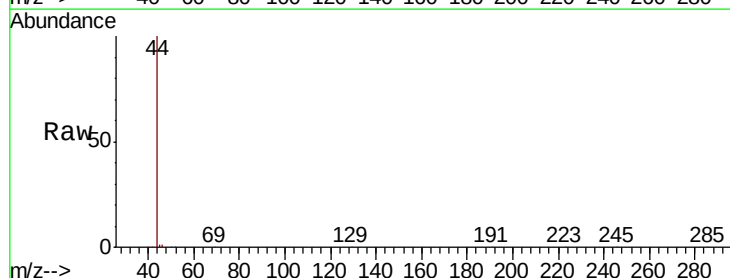
Acq: 1 Aug 2018 22:56

Tgt Ion: 50 Resp: 67

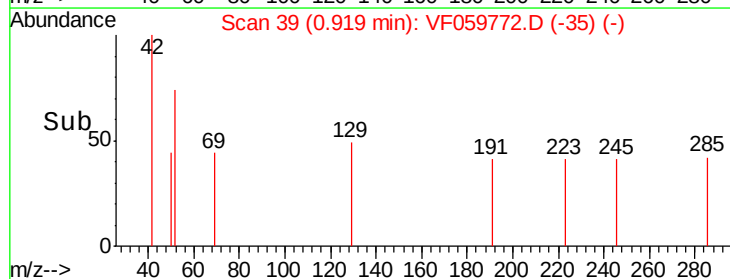
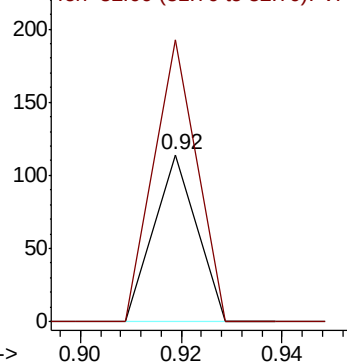
Ion Ratio Lower Upper

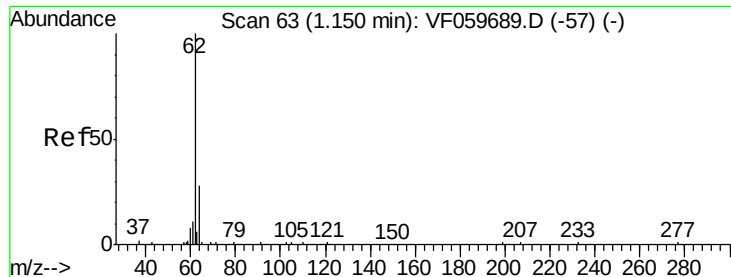
50 100

52 169.3 29.1 43.7#



Abundance Ion 50.00 (49.70 to 50.70): VF0





#4

Vinyl Chloride

Concen: 11.41 ug/l

RT: 1.18 min Scan# 65

Delta R.T. 0.03 min

Lab File: VF059772.D

Acq: 1 Aug 2018 22:56

Instrument :

MSVOA_F

ClientSampleId :

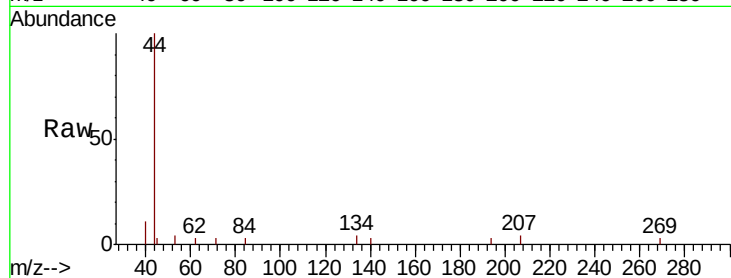
FK-BPM-03-001-B

Tot Ion: 62 Resp: 61

Ion Ratio Lower Upper

62 100

64 0.0 22.6 33.8#



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0

1.18

120

100

80

60

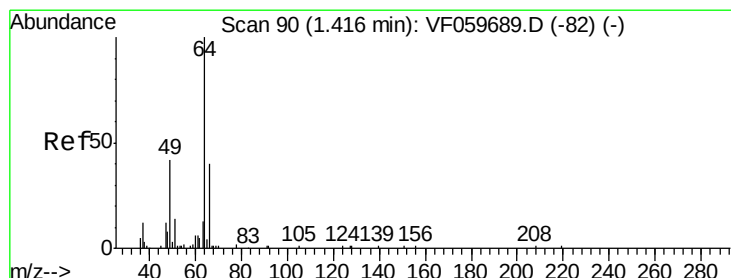
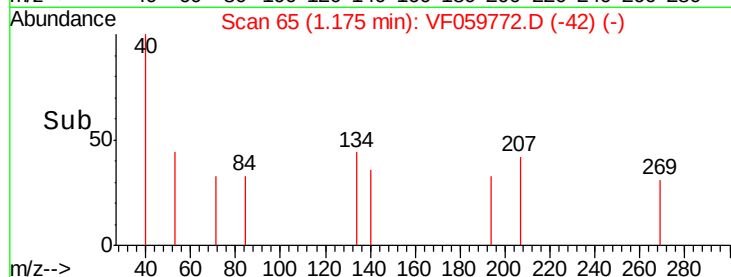
40

20

0

Time-->

1.14 1.16 1.18 1.20



#6

Chloroethane

Concen: 24.24 ug/l

RT: 1.40 min Scan# 88

Delta R.T. -0.01 min

Lab File: VF059772.D

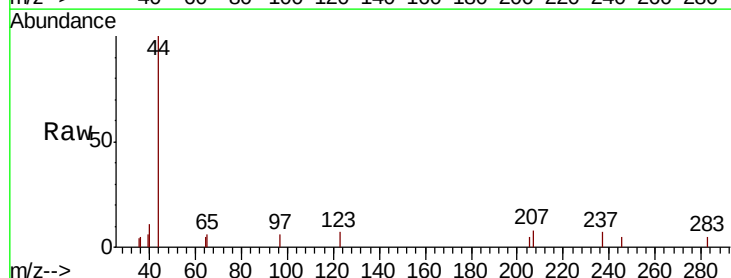
Acq: 1 Aug 2018 22:56

Tgt Ion: 64 Resp: 69

Ion Ratio Lower Upper

64 100

66 0.0 32.6 49.0#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0

1.40

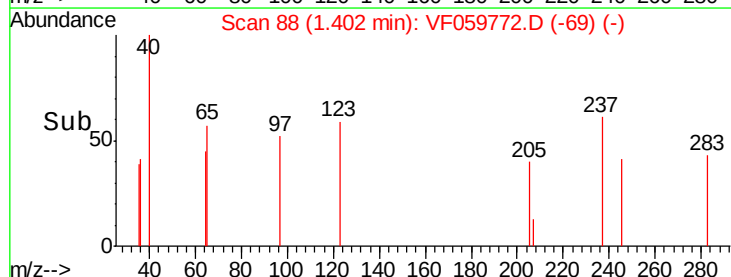
100

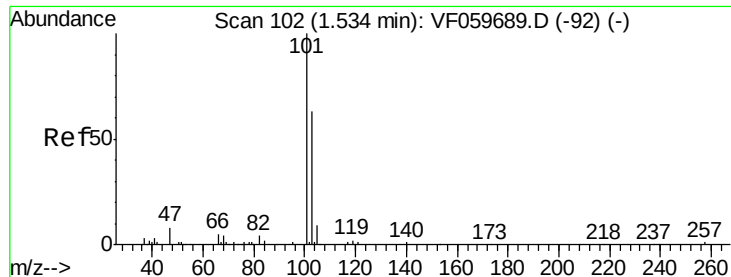
50

0

Time-->

1.38 1.40 1.42





#7

Trichlorofluoromethane

Concen: 4.80 ug/l

RT: 1.66 min Scan# 114

Delta R.T. 0.12 min

Lab File: VF059772.D

Acq: 1 Aug 2018 22:56

Instrument :

MSVOA_F

ClientSampleId :

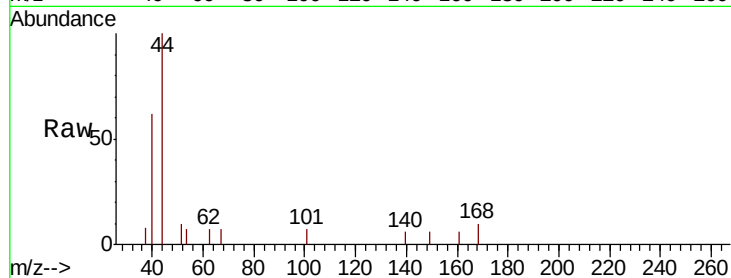
FK-BPM-03-001-B

Tot Ion:101 Resp: 62

Ion Ratio Lower Upper

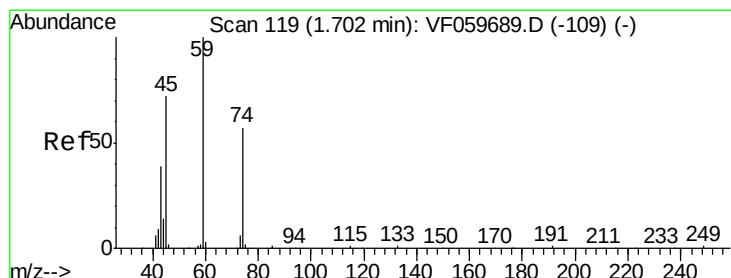
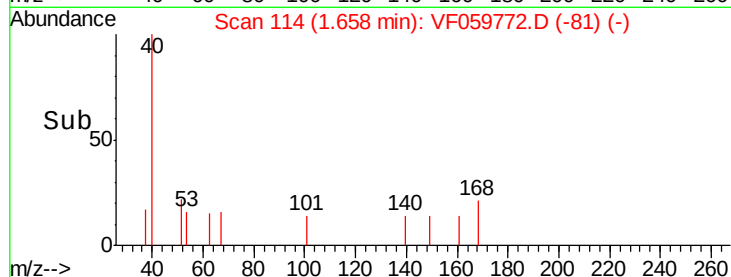
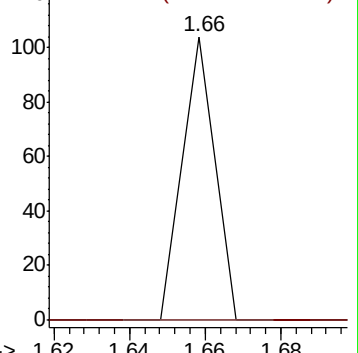
101 100

103 0.0 50.8 76.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 38.07 ug/l

RT: 1.68 min Scan# 116

Delta R.T. -0.02 min

Lab File: VF059772.D

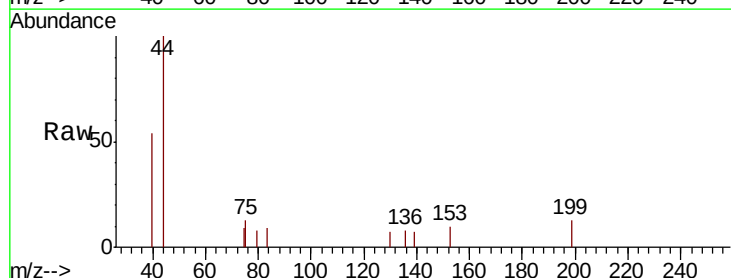
Acq: 1 Aug 2018 22:56

Tgt Ion: 74 Resp: 84

Ion Ratio Lower Upper

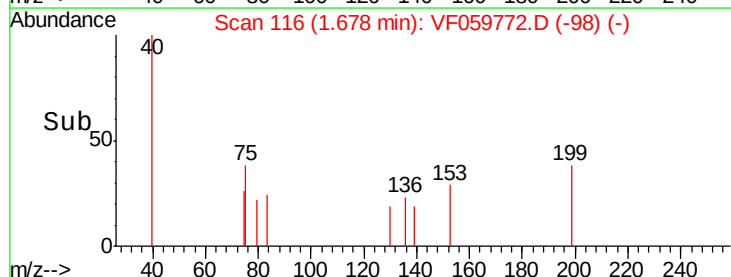
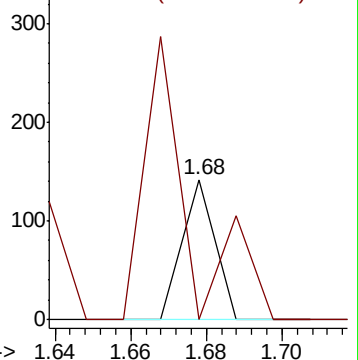
74 100

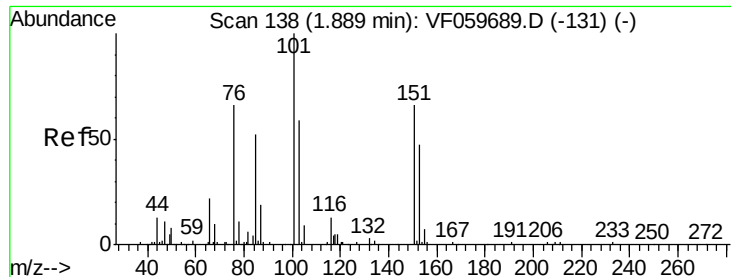
45 0.0 62.7 188.2#



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 8.73 ug/l

RT: 1.77 min Scan# 125

Delta R.T. -0.12 min

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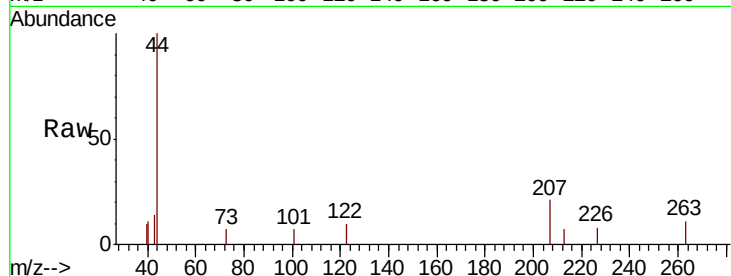
Tot Ion:101 Resp: 59

Ion Ratio Lower Upper

101 100

85 0.0 40.7 61.1#

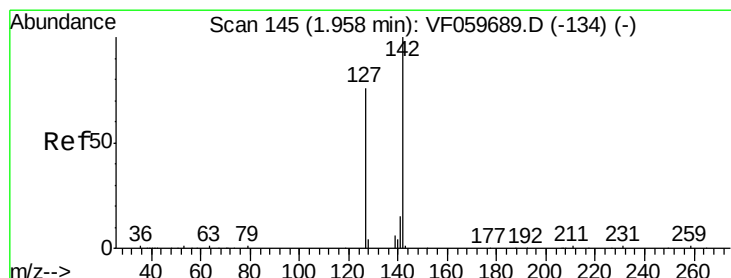
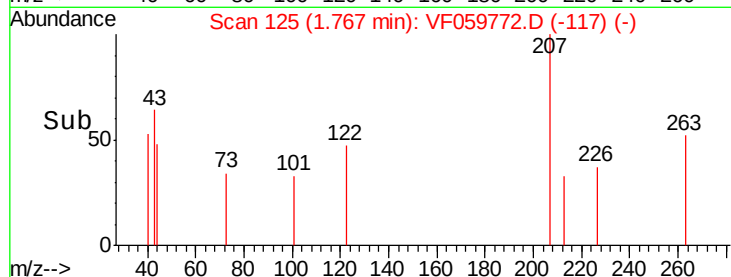
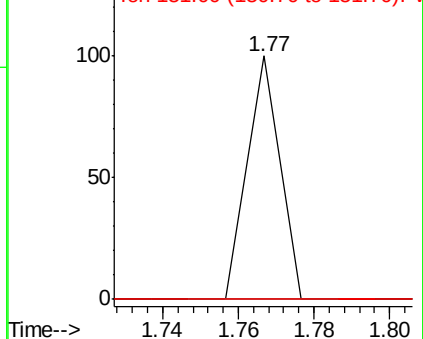
151 0.0 51.4 77.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 2.74 ug/l

RT: 1.90 min Scan# 139

Delta R.T. -0.05 min

Lab File: VF059772.D

Acq: 1 Aug 2018 22:56

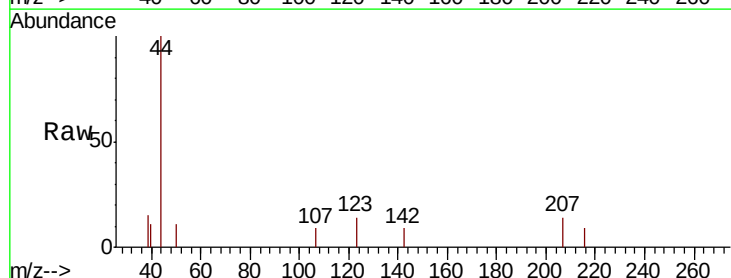
Tgt Ion:142 Resp: 60

Ion Ratio Lower Upper

142 100

127 0.0 60.6 91.0#

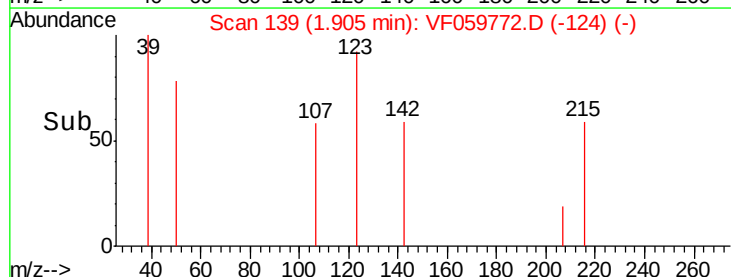
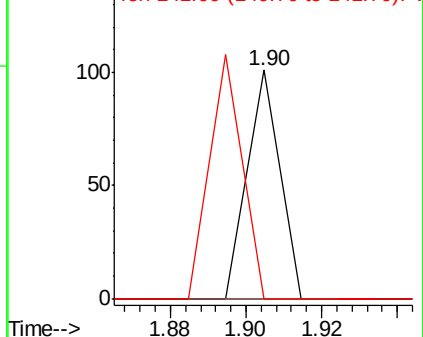
141 0.0 12.0 18.0#

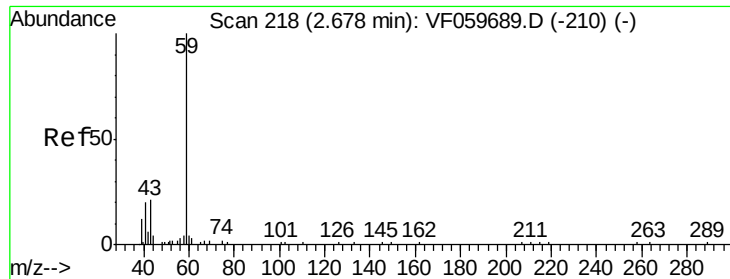


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

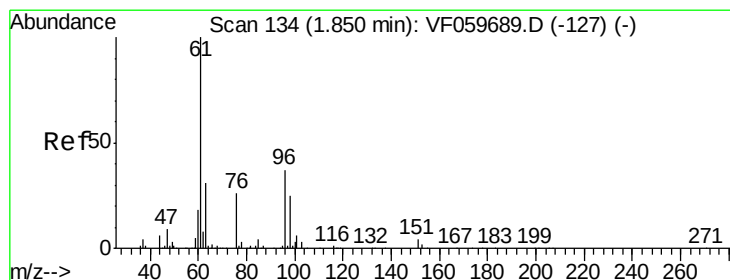
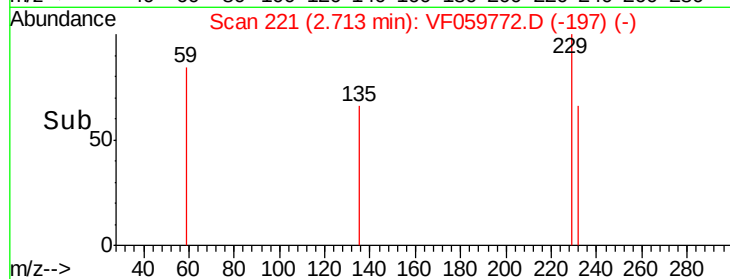
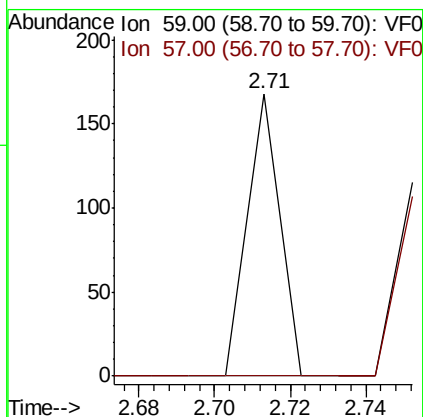
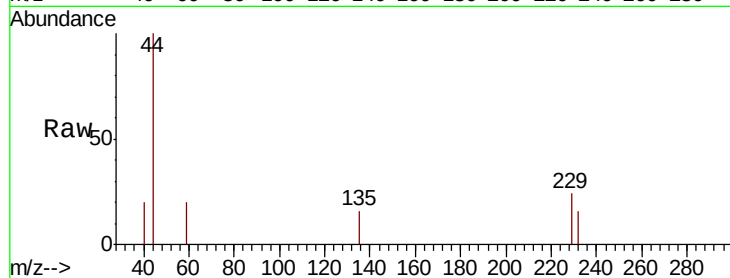




#11
Tert butyl alcohol
Concen: 197.41 ug/l
RT: 2.71 min Scan# 221
Delta R.T. 0.04 min
Lab File: VF059772.D
Acq: 1 Aug 2018 22:56

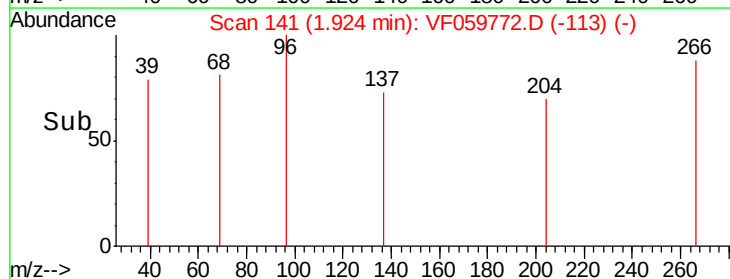
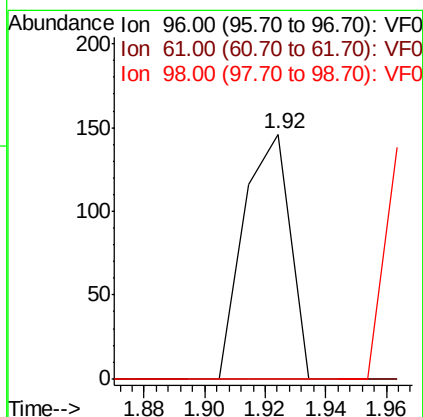
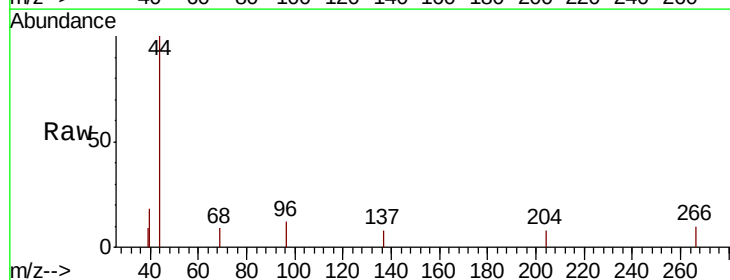
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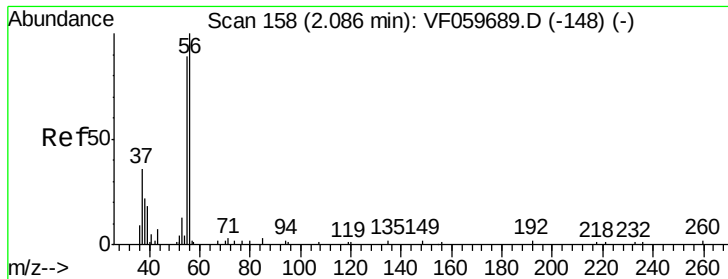
Tot Ion: 59 Resp: 99
Ion Ratio Lower Upper
59 100
57 0.0 7.6 11.4#



#12
1,1-Dichloroethene
Concen: 28.97 ug/l
RT: 1.92 min Scan# 141
Delta R.T. 0.07 min
Lab File: VF059772.D
Acq: 1 Aug 2018 22:56

Tgt Ion: 96 Resp: 155
Ion Ratio Lower Upper
96 100
61 0.0 215.1 322.7#
98 0.0 54.3 81.5#

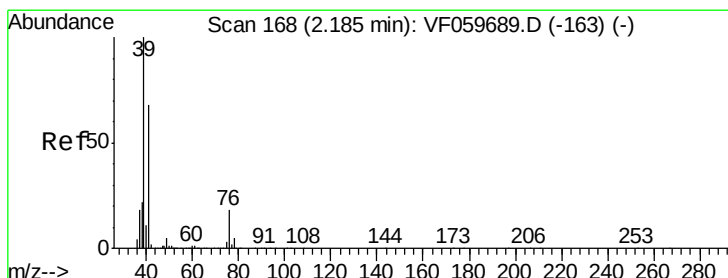
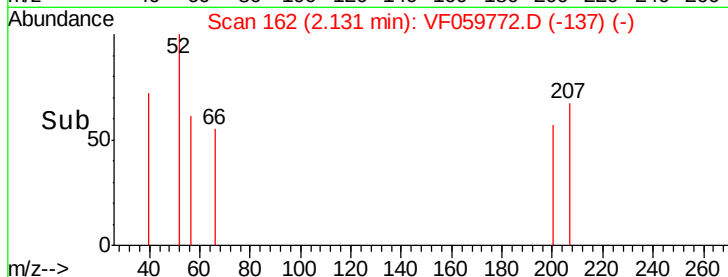
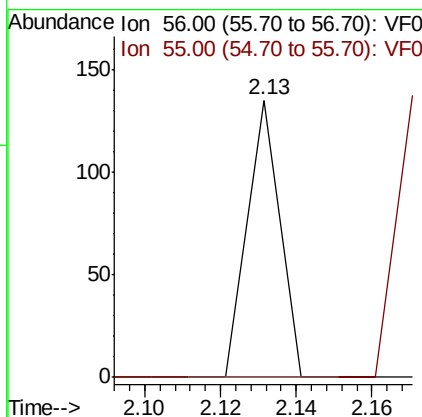
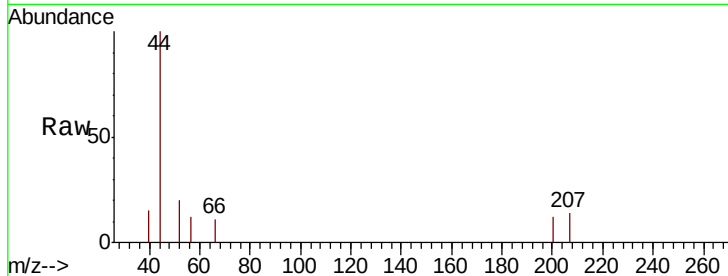




#13
 Acrolein
 Concen: 301.49 ug/l
 RT: 2.13 min Scan# 162
 Delta R.T. 0.05 min
 Lab File: VF059772.D
 Acq: 1 Aug 2018 22:56

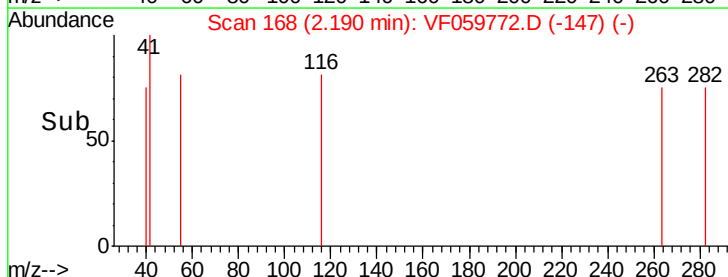
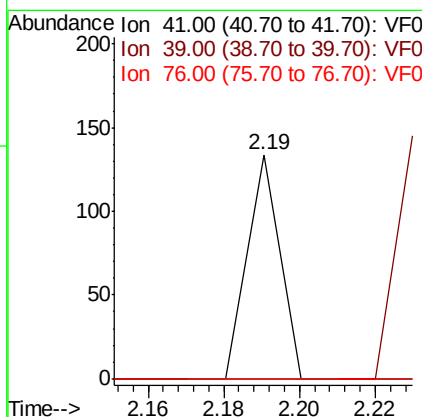
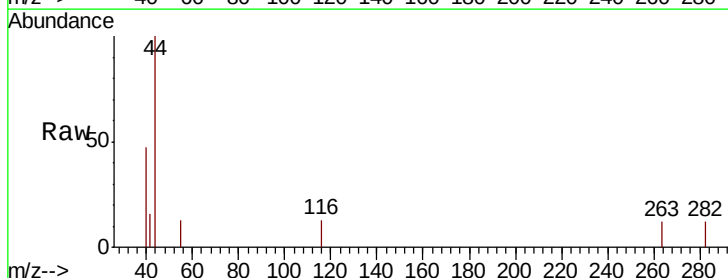
Instrument :
 MSVOA_F
 ClientSampleId :
 FK-BPM-03-001-B

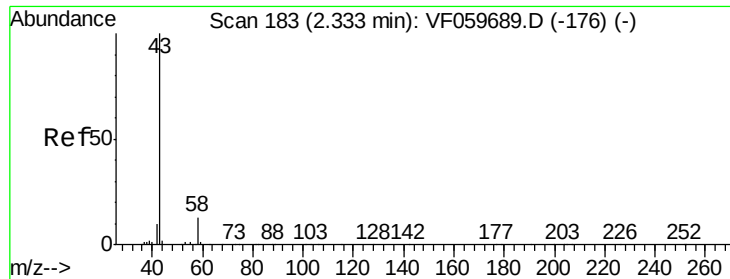
Tot Ion: 56 Resp: 80
 Ion Ratio Lower Upper
 56 100
 55 0.0 73.2 109.8#



#14
 Allyl chloride
 Concen: 9.25 ug/l
 RT: 2.19 min Scan# 168
 Delta R.T. 0.01 min
 Lab File: VF059772.D
 Acq: 1 Aug 2018 22:56

Tgt Ion: 41 Resp: 79
 Ion Ratio Lower Upper
 41 100
 39 0.0 118.1 177.1#
 76 0.0 22.0 33.0#





#16

Acetone

Concen: 30.89 ug/l

RT: 2.35 min Scan# 184

Delta R.T. 0.02 min

Lab File: VF059772.D

Acq: 1 Aug 2018 22:56

Instrument :

MSVOA_F

ClientSampleId :

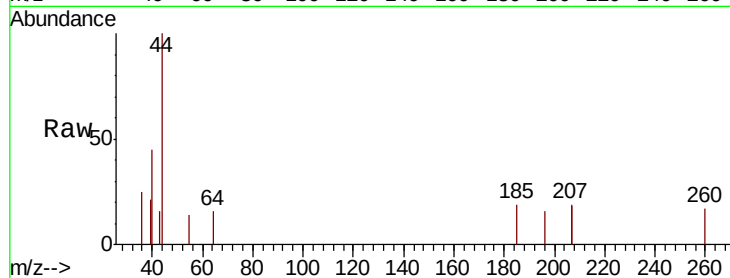
FK-BPM-03-001-B

Tot Ion: 43 Resp: 69

Ion Ratio Lower Upper

43 100

58 0.0 10.1 15.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

150

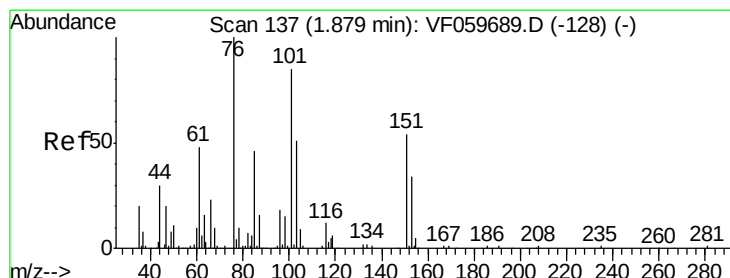
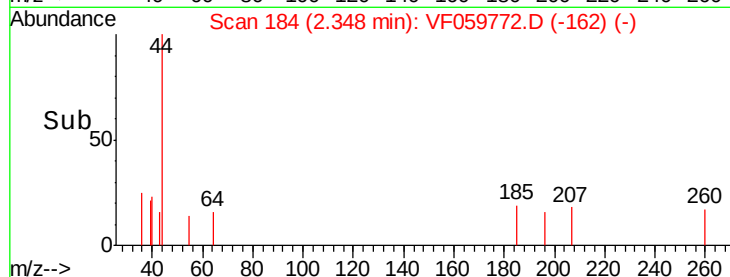
100

50

0

2.32 2.34 2.36 2.38

Time-->



#17

Carbon Disulfide

Concen: 1.70 ug/l

RT: 1.76 min Scan# 124

Delta R.T. -0.12 min

Lab File: VF059772.D

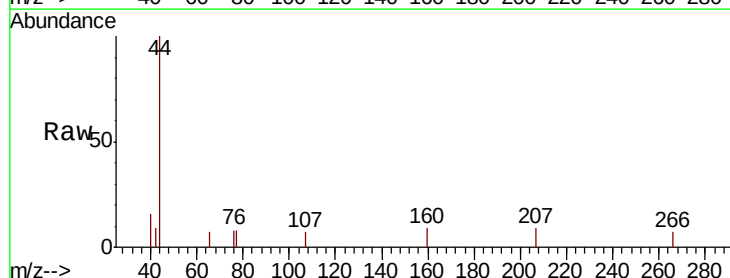
Acq: 1 Aug 2018 22:56

Tgt Ion: 76 Resp: 77

Ion Ratio Lower Upper

76 100

78 0.0 8.9 13.3#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

200

150

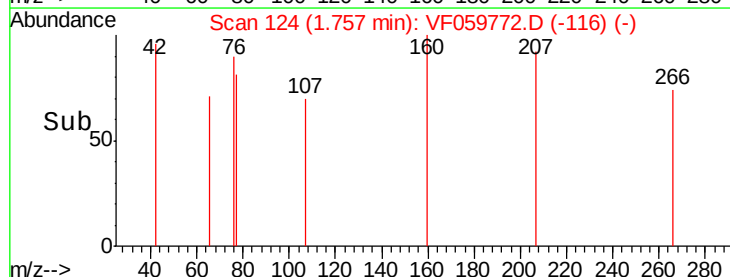
100

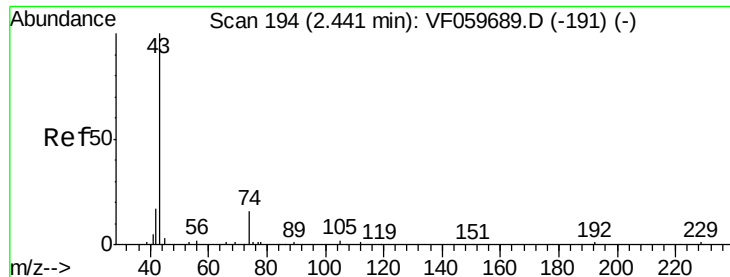
50

0

1.72 1.74 1.76 1.78

Time-->

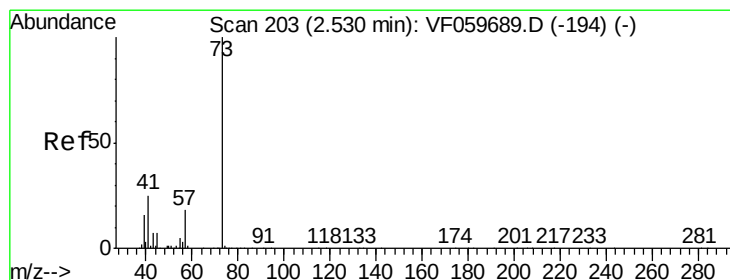
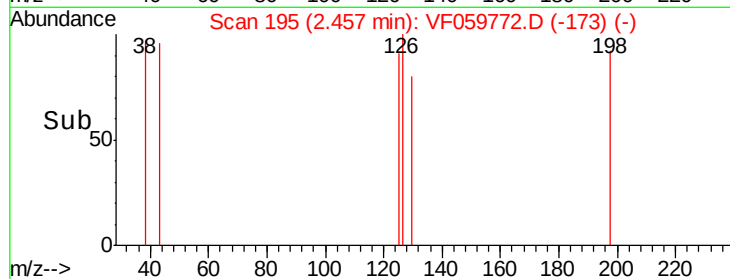
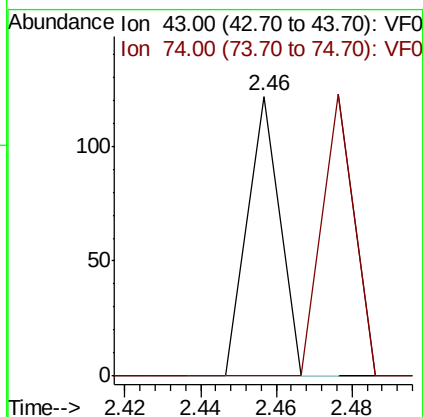
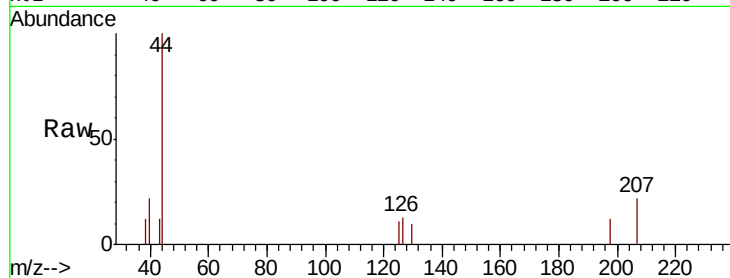




#18
Methyl Acetate
Concen: 17.54 ug/l
RT: 2.46 min Scan# 195
Delta R.T. 0.02 min
Lab File: VF059772.D
Acq: 1 Aug 2018 22:56

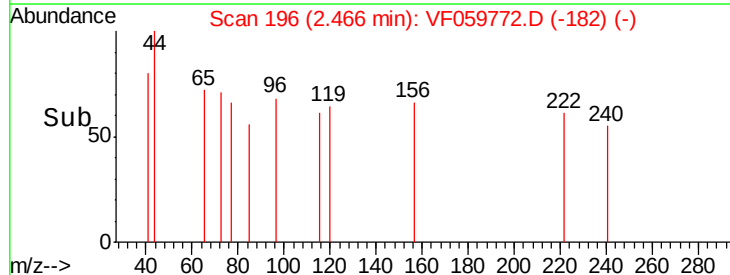
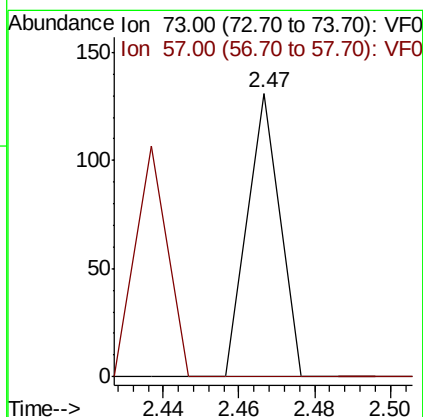
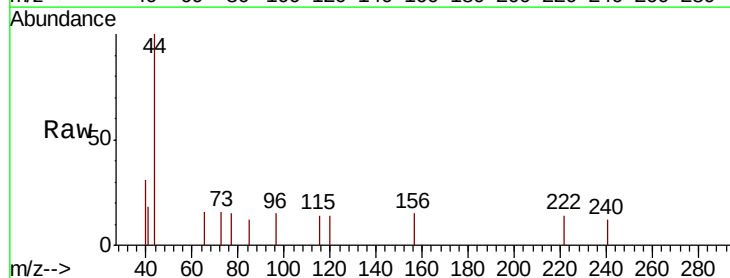
Instrument :
MSVOA_F
ClientSampleId :
FK-BPM-03-001-B

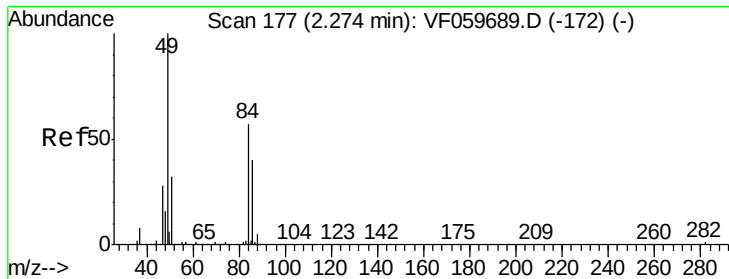
Tot Ion: 43 Resp: 72
Ion Ratio Lower Upper
43 100
74 0.0 11.8 17.6#



#19
Methyl tert-butyl Ether
Concen: 4.72 ug/l
RT: 2.47 min Scan# 196
Delta R.T. -0.06 min
Lab File: VF059772.D
Acq: 1 Aug 2018 22:56

Tgt Ion: 73 Resp: 77
Ion Ratio Lower Upper
73 100
57 0.0 14.2 21.2#

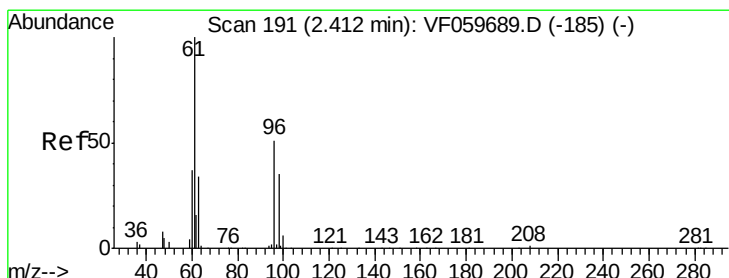
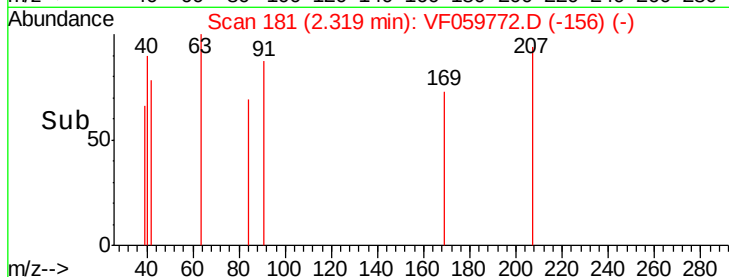
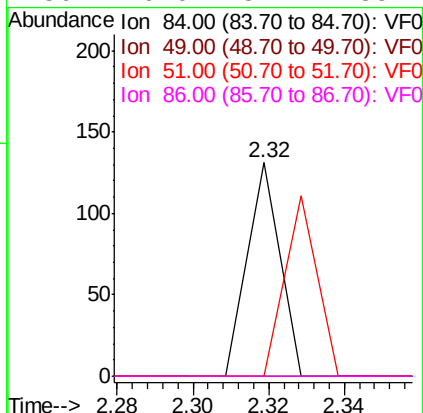
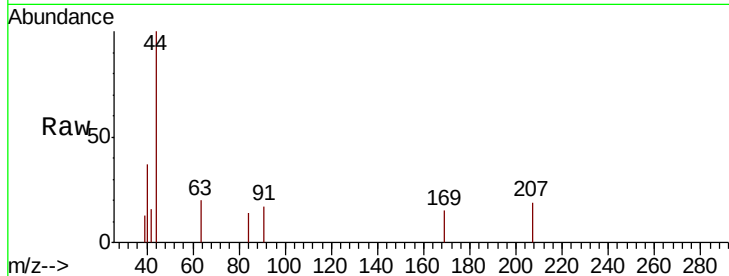




#20
Methylene Chloride
Concen: 10.15 ug/l
RT: 2.32 min Scan# 181
Delta R.T. 0.05 min
Lab File: VF059772.D
Acq: 1 Aug 2018 22:56

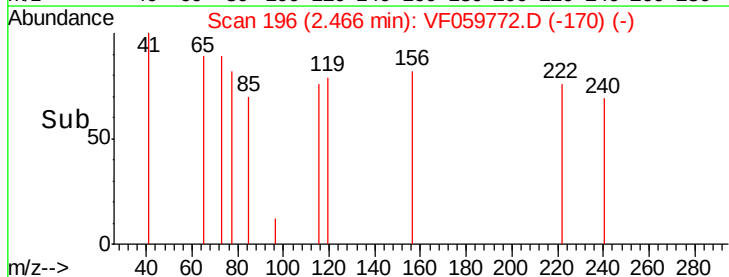
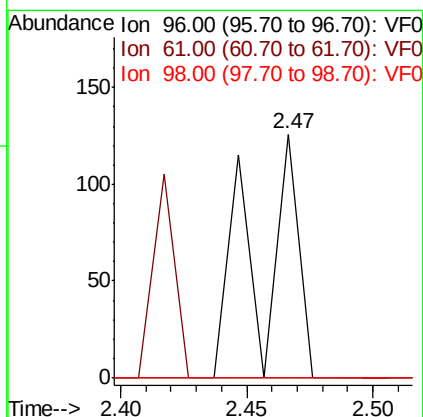
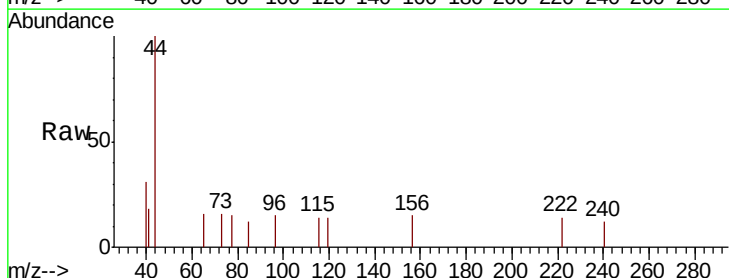
Instrument :
MSVOA_F
ClientSampleId :
FK-BPM-03-001-B

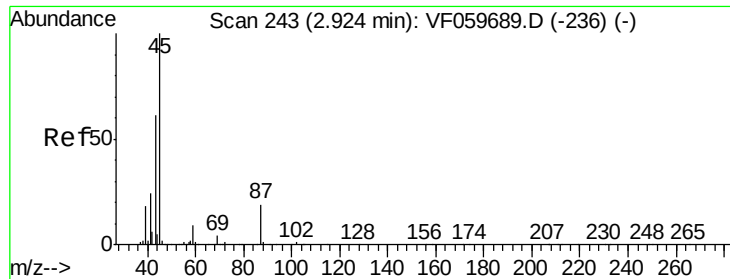
Tot Ion:	84	Resp:	77
Ion	Ratio	Lower	Upper
84	100		
49	0.0	142.2	213.4#
51	0.0	46.2	69.2#
86	0.0	57.1	85.7#



#21
trans-1,2-Dichloroethene
Concen: 29.48 ug/l
RT: 2.47 min Scan# 196
Delta R.T. 0.06 min
Lab File: VF059772.D
Acq: 1 Aug 2018 22:56

Tgt Ion:	96	Resp:	143
Ion	Ratio	Lower	Upper
96	100		
61	0.0	157.4	236.0#
98	0.0	55.0	82.4#

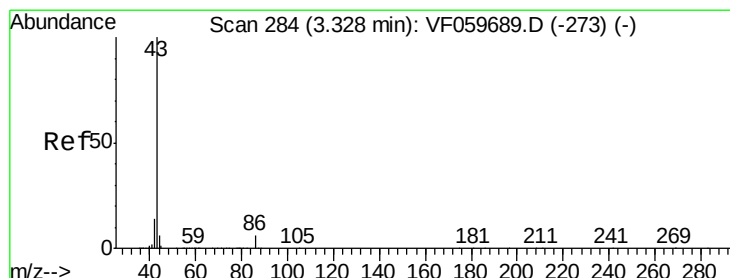
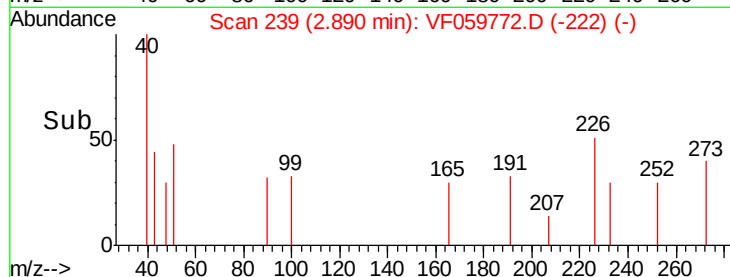
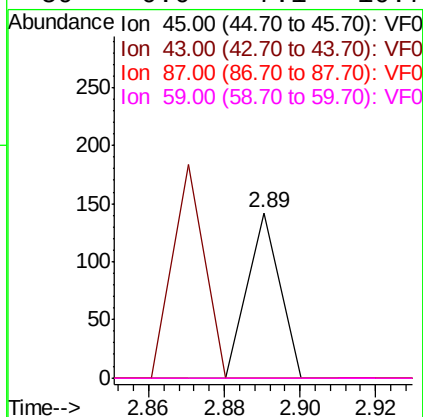
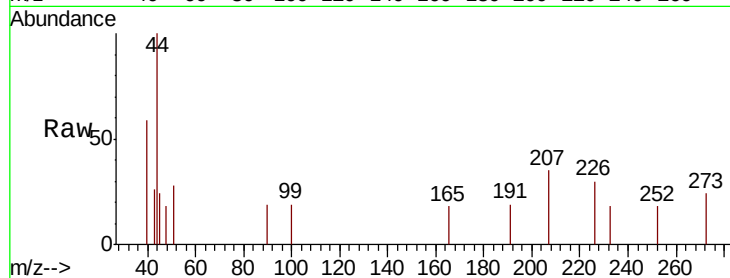




#22
Diisopropyl ether
Concen: 4.65 ug/l
RT: 2.89 min Scan# 239
Delta R.T. -0.03 min
Lab File: VF059772.D
Acq: 1 Aug 2018 22:56

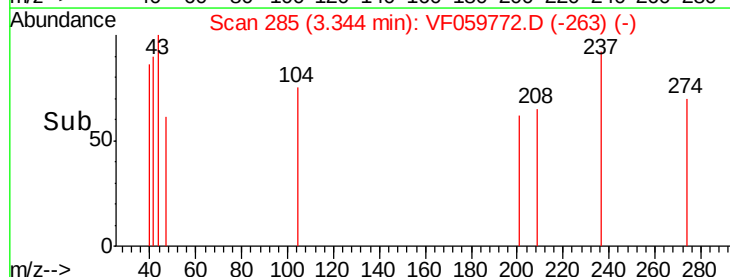
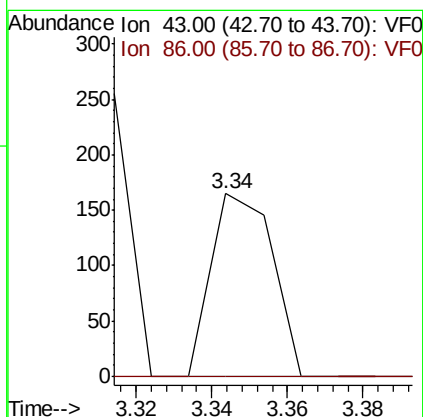
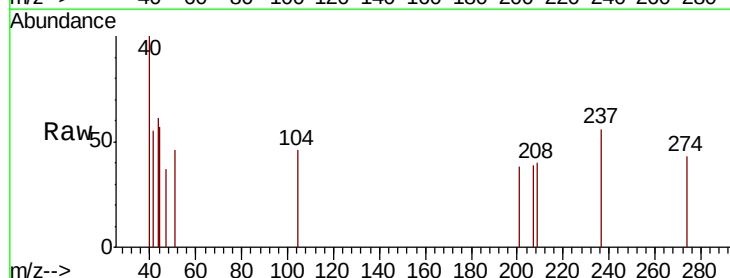
Instrument :
MSVOA_F
ClientSampleId :
FK-BPM-03-001-B

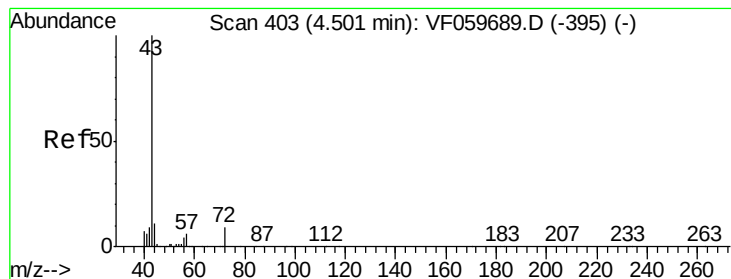
Tot Ion:	45	Resp:	84
Ion	Ratio	Lower	Upper
45	100		
43	0.0	49.3	73.9#
87	0.0	15.3	22.9#
59	0.0	7.1	10.7#



#23
Vinyl Acetate
Concen: 19.70 ug/l
RT: 3.34 min Scan# 285
Delta R.T. 0.02 min
Lab File: VF059772.D
Acq: 1 Aug 2018 22:56

Tgt Ion:	43	Resp:	183
Ion	Ratio	Lower	Upper
43	100		
86	0.0	4.6	6.8#





#25

2-Butanone

Concen: 61.38 ug/l

RT: 4.55 min Scan# 407

Delta R.T. 0.04 min

Lab File: VF059772.D

Acq: 1 Aug 2018 22:56

Instrument :

MSVOA_F

ClientSampleId :

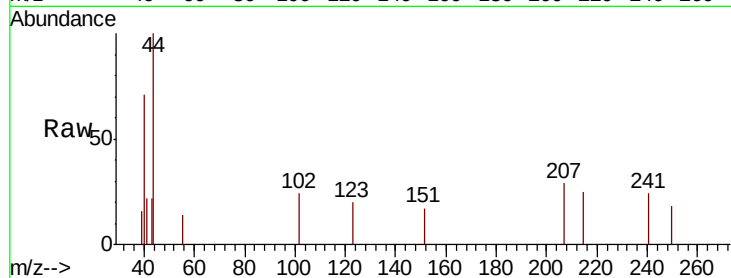
FK-BPM-03-001-B

Tot Ion: 43 Resp: 153

Ion Ratio Lower Upper

43 100

72 0.0 7.7 11.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

4.55

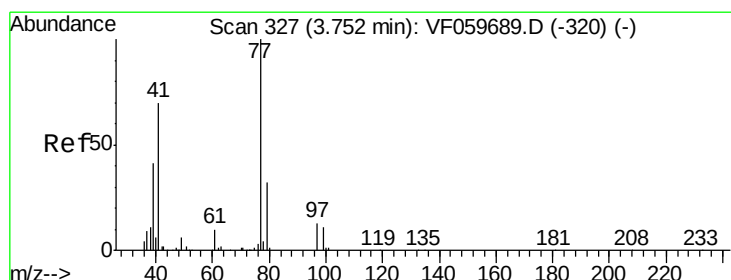
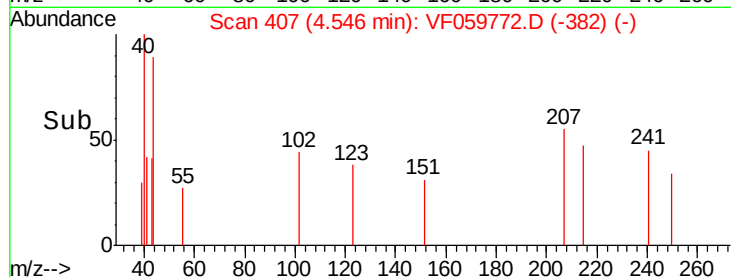
150

100

50

0

Time-->



#26

2,2-Dichloropropane

Concen: 15.98 ug/l

RT: 3.78 min Scan# 329

Delta R.T. 0.03 min

Lab File: VF059772.D

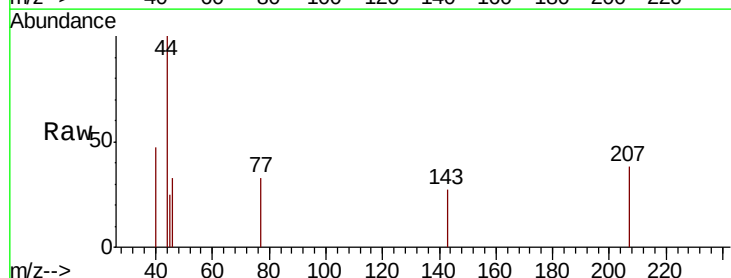
Acq: 1 Aug 2018 22:56

Tgt Ion: 77 Resp: 143

Ion Ratio Lower Upper

77 100

97 0.0 6.8 20.4#



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0

200

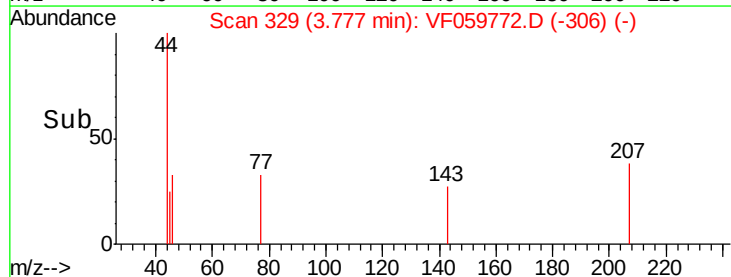
150

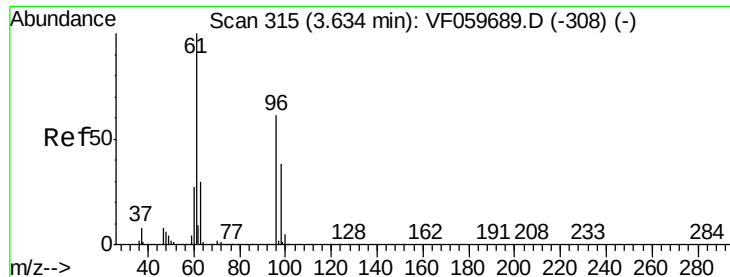
100

50

0

Time-->



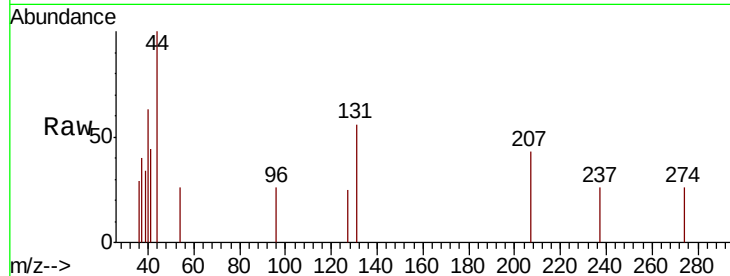


#27

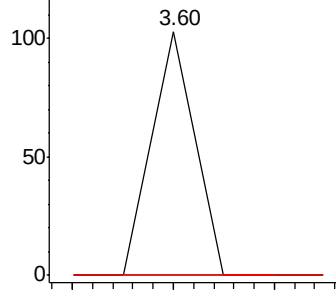
cis-1,2-Dichloroethene
Concen: 9.07 ug/l
RT: 3.60 min Scan# 311
Delta R.T. -0.03 min
Lab File: VF059772.D
Acq: 1 Aug 2018 22:56

Instrument :
MSVOA_F
ClientSampleId :
FK-BPM-03-001-B

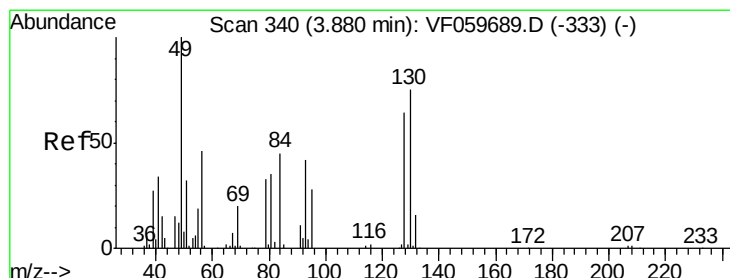
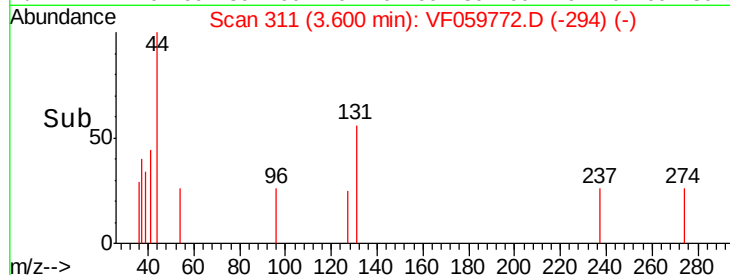
Tot Ion	Ratio	Lower	Upper
96	100		
61	0.0	0.0	326.8
98	0.0	0.0	125.2



Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



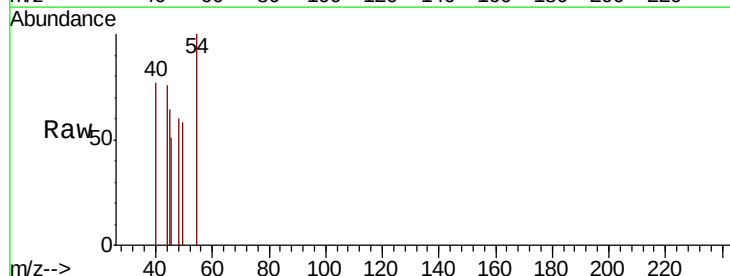
Time-->



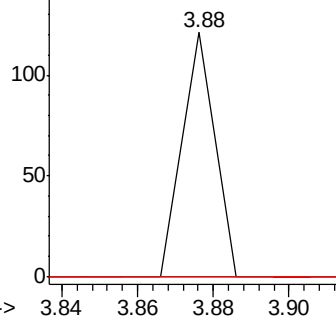
#28

Bromochloromethane
Concen: 13.09 ug/l
RT: 3.88 min Scan# 339
Delta R.T. -0.00 min
Lab File: VF059772.D
Acq: 1 Aug 2018 22:56

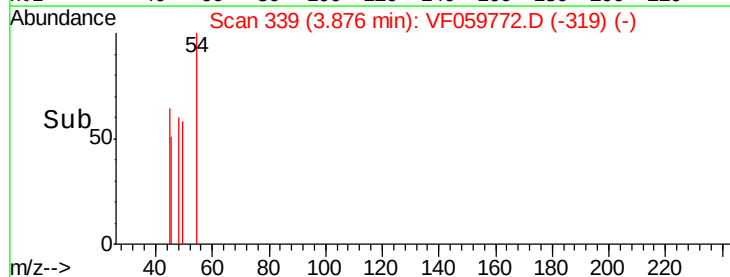
Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.8
130	0.0	59.6	89.4#

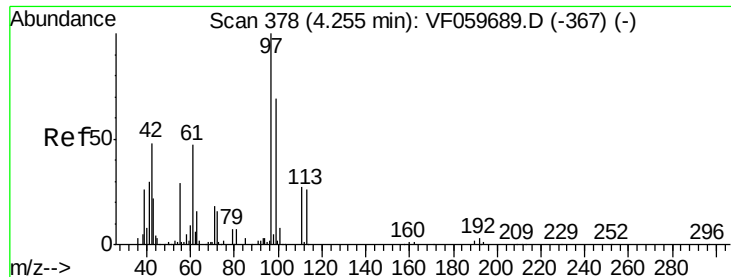


Abundance Ion 49.00 (48.70 to 49.70): VF0
Ion 129.00 (128.70 to 129.70): V
Ion 130.00 (129.70 to 130.70): V



Time-->





#29

Tetrahydrofuran

Concen: 150.29 ug/l

RT: 4.25 min Scan# 377

Delta R.T. -0.00 min

Lab File: VF059772.D

Acq: 1 Aug 2018 22:56

Instrument :

MSVOA_F

ClientSampleId :

FK-BPM-03-001-B

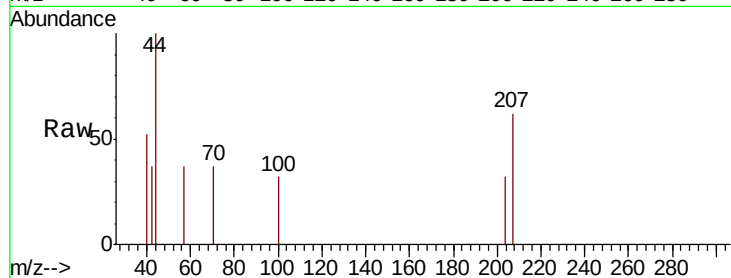
Tot Ion: 42 Resp: 144

Ion Ratio Lower Upper

42 100

72 0.0 27.0 40.6#

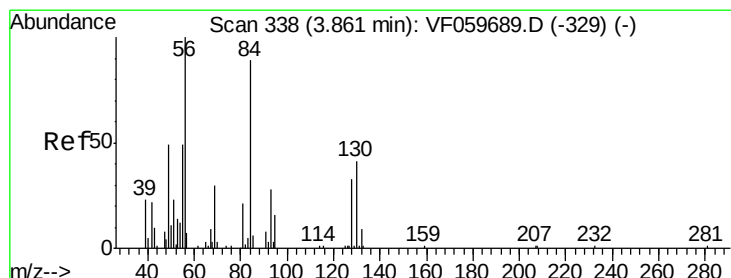
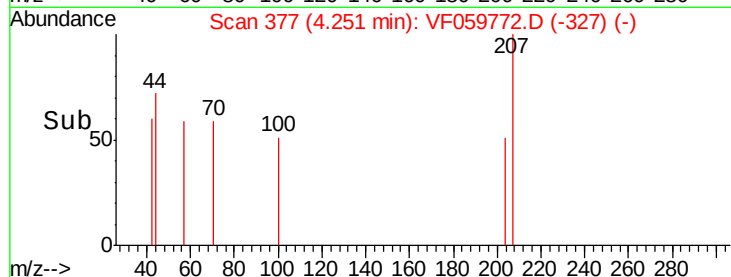
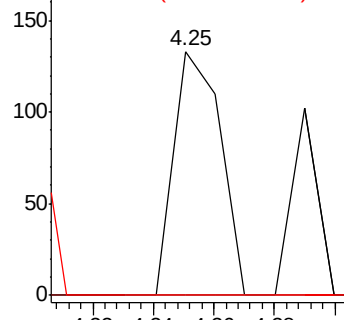
71 0.0 29.7 44.5#



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



#31

Cyclohexane

Concen: 6.79 ug/l

RT: 3.79 min Scan# 330

Delta R.T. -0.07 min

Lab File: VF059772.D

Acq: 1 Aug 2018 22:56

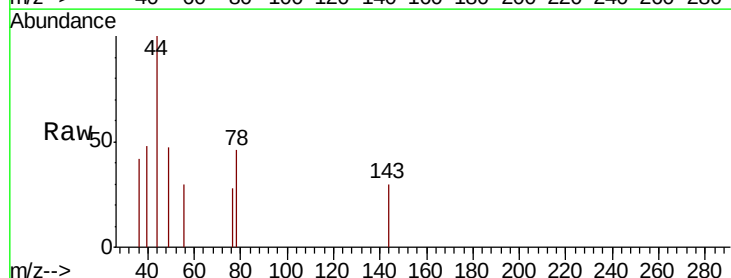
Tgt Ion: 56 Resp: 63

Ion Ratio Lower Upper

56 100

69 0.0 23.7 35.5#

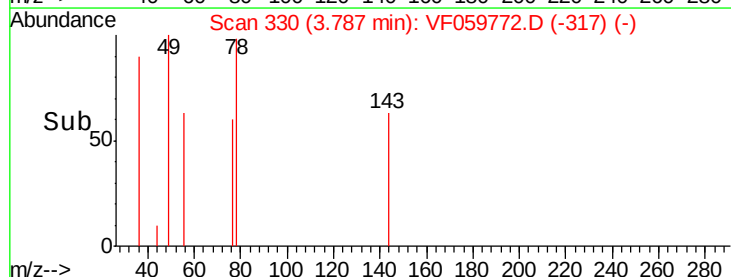
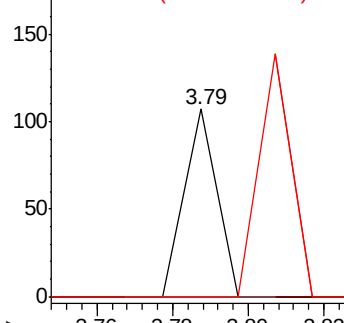
84 0.0 71.1 106.7#

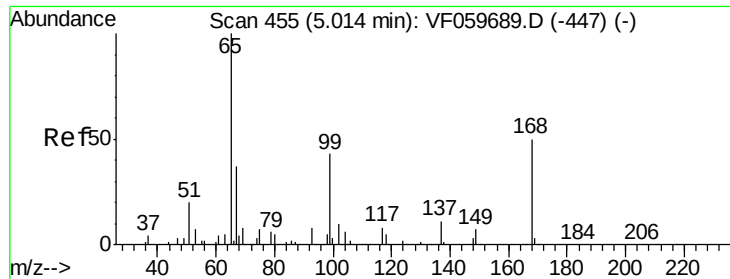


Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0

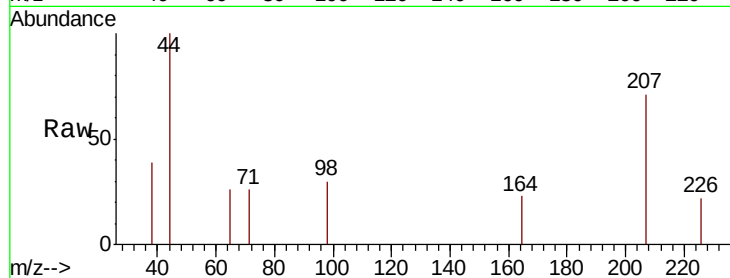




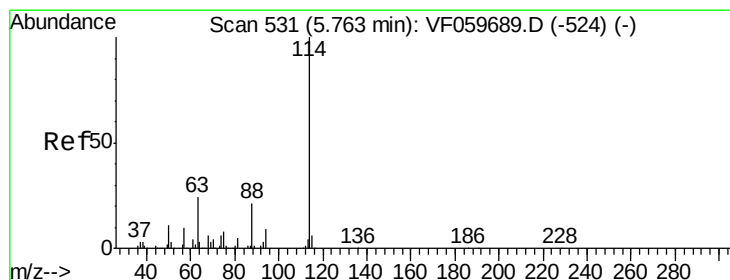
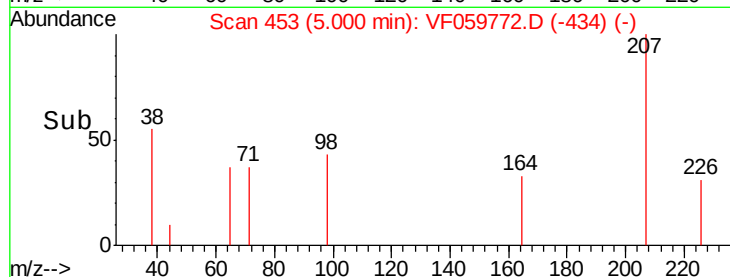
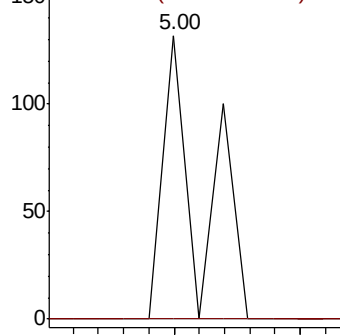
#33
 1,2-Dichloroethane-d4
 Concen: 11.03 ug/l
 RT: 5.00 min Scan# 453
 Delta R.T. -0.01 min
 Lab File: VF059772.D
 Acq: 1 Aug 2018 22:56

Instrument :
 MSVOA_F
 ClientSampleId :
 FK-BPM-03-001-B

Tot Ion: 65 Resp: 137
 Ion Ratio Lower Upper
 65 100
 67 0.0 0.0 84.6

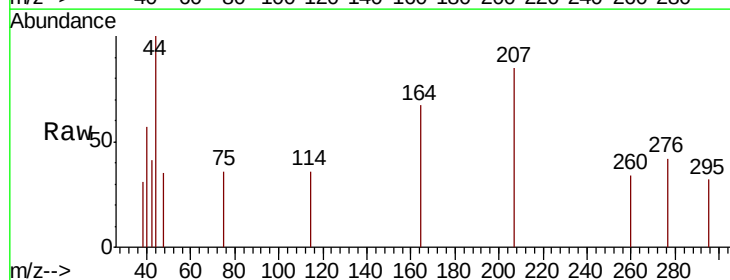


Abundance Ion 65.00 (64.70 to 65.70): VF0
 Ion 67.00 (66.70 to 67.70): VF0

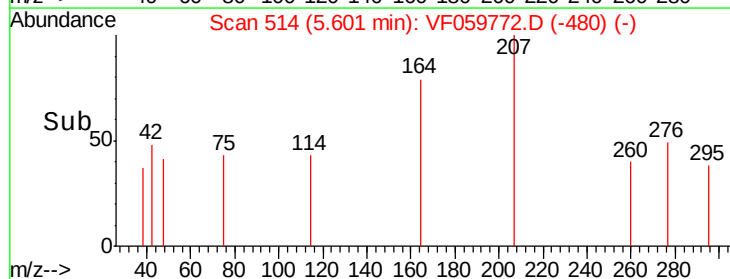
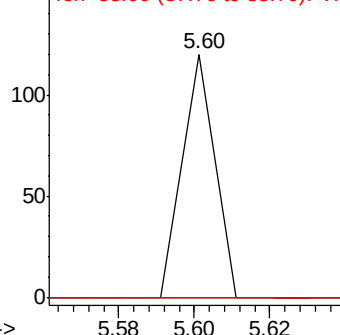


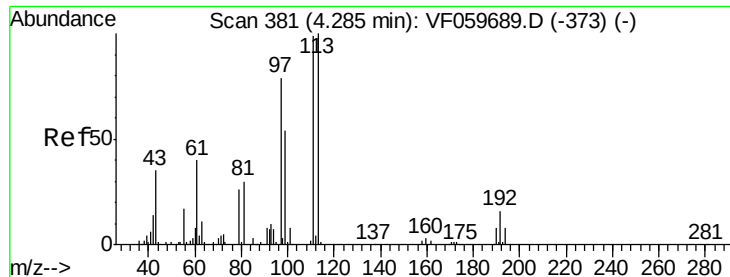
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.60 min Scan# 514
 Delta R.T. -0.16 min
 Lab File: VF059772.D
 Acq: 1 Aug 2018 22:56

Tgt Ion: 114 Resp: 71
 Ion Ratio Lower Upper
 114 100
 63 0.0 0.0 47.4
 88 0.0 0.0 41.2



Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VF0
 Ion 88.00 (87.70 to 88.70): VF0

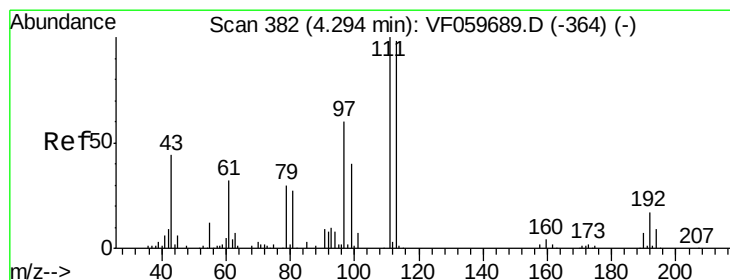
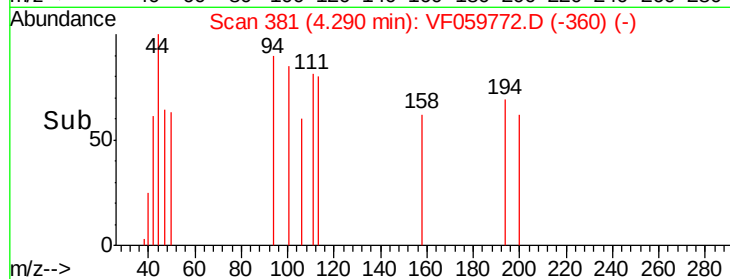
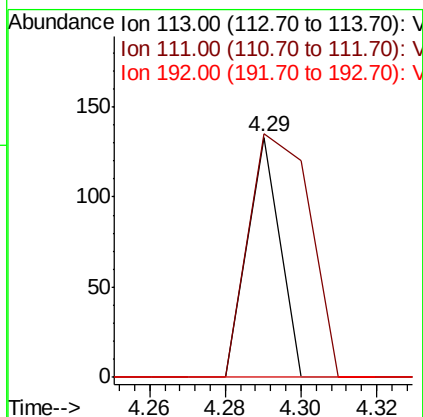
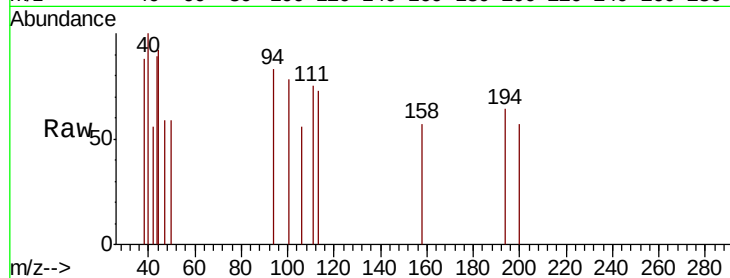




#35
Dibromofluoromethane
Concen: 107.13 ug/l
RT: 4.29 min Scan# 381
Delta R.T. 0.01 min
Lab File: VF059772.D
Acq: 1 Aug 2018 22:56

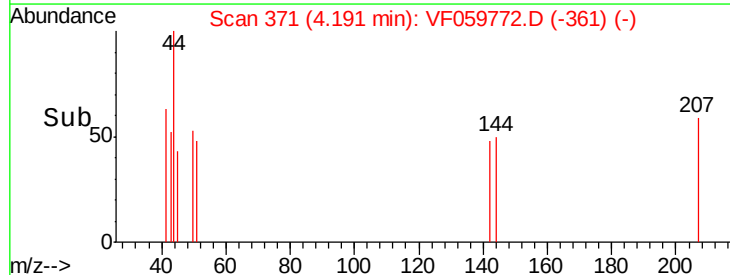
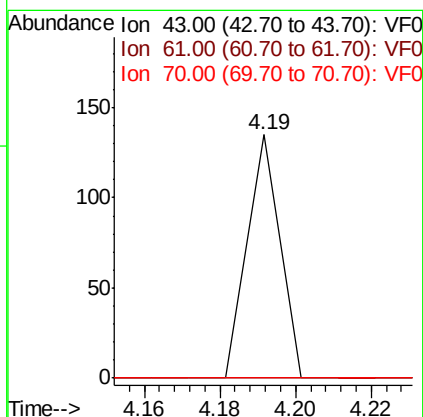
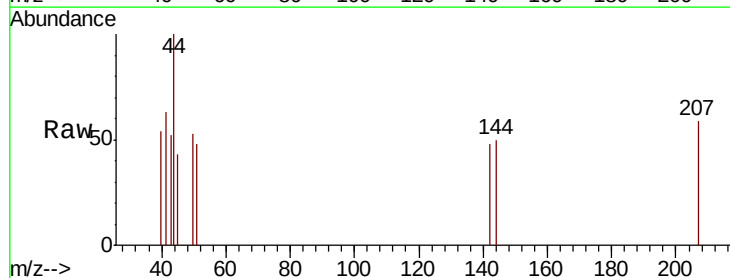
Instrument :
MSVOA_F
ClientSampleId :
FK-BPM-03-001-B

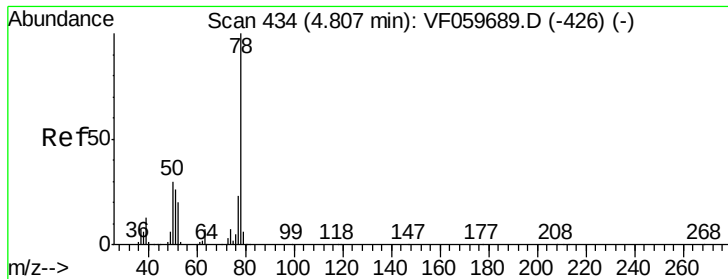
Tot Ion:113 Resp: 79
Ion Ratio Lower Upper
113 100
111 101.5 79.0 118.4
192 0.0 13.2 19.8#



#37
Ethyl Acetate
Concen: 243.75 ug/l
RT: 4.19 min Scan# 371
Delta R.T. -0.10 min
Lab File: VF059772.D
Acq: 1 Aug 2018 22:56

Tgt Ion: 43 Resp: 80
Ion Ratio Lower Upper
43 100
61 0.0 58.2 87.2#
70 0.0 6.0 9.0#





#40

Benzene

Concen: 59.28 ug/l

RT: 4.75 min Scan# 428

Delta R.T. -0.05 min

Lab File: VF059772.D

Acq: 1 Aug 2018 22:56

Instrument :

MSVOA_F

ClientSampleId :

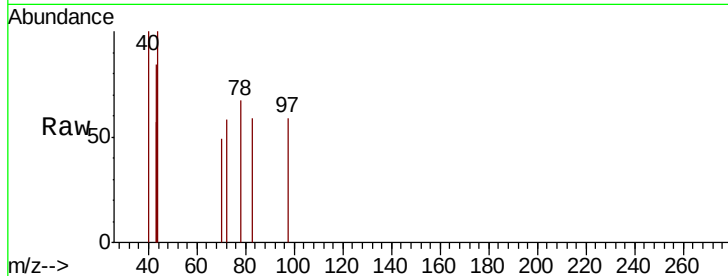
FK-BPM-03-001-B

Tot Ion: 78 Resp: 85

Ion Ratio Lower Upper

78 100

77 0.0 18.9 28.3#



Abundance Ion 78.10 (77.80 to 78.80): VF0

Ion 77.00 (76.70 to 77.70): VF0

4.75

150

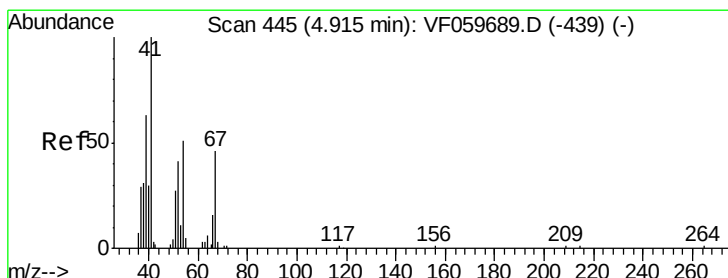
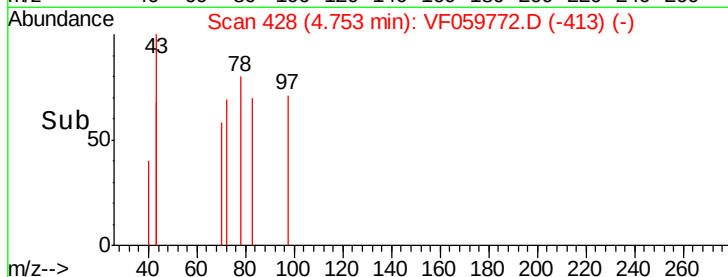
100

50

0

4.72 4.74 4.76 4.78

Time-->



#41

Methacrylonitrile

Concen: 1342.66 ug/l

RT: 4.74 min Scan# 427

Delta R.T. -0.17 min

Lab File: VF059772.D

Acq: 1 Aug 2018 22:56

Tgt Ion: 41 Resp: 227

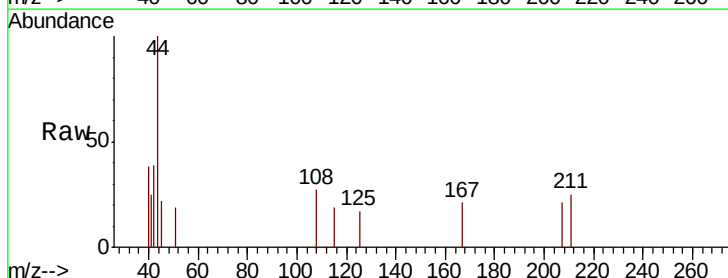
Ion Ratio Lower Upper

41 100

39 0.0 55.2 82.8#

67 0.0 36.2 54.2#

52 0.0 37.7 56.5#



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

250

200

150

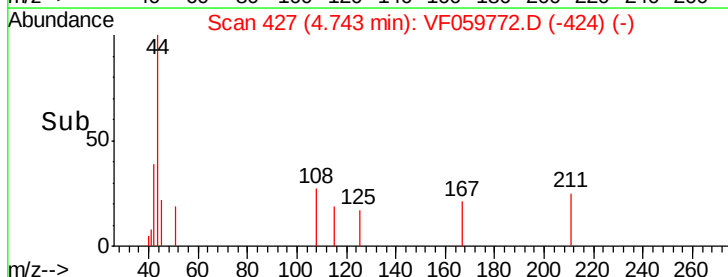
100

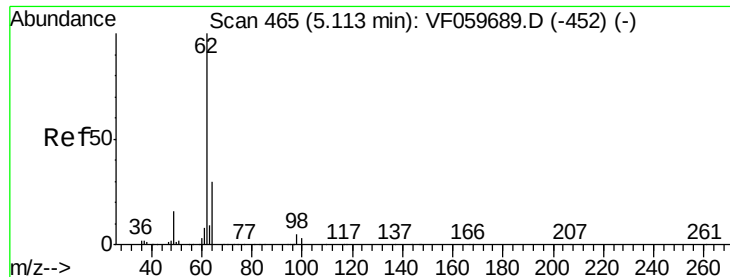
50

0

4.68 4.70 4.72 4.74 4.76

Time-->

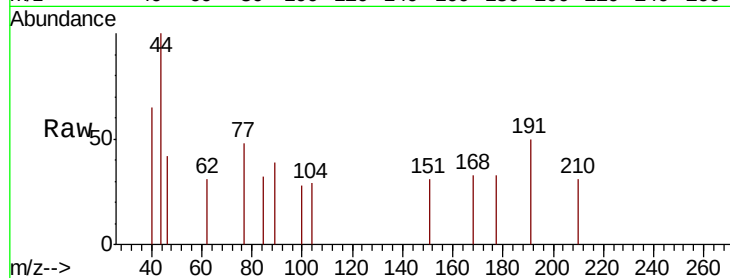




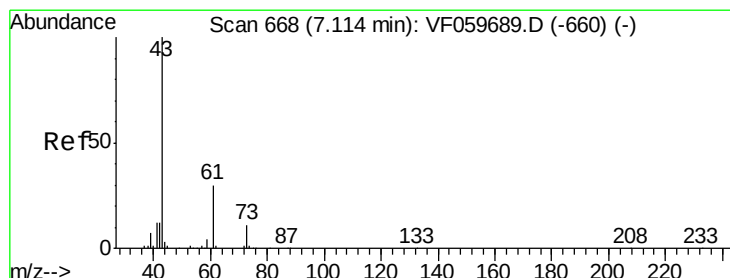
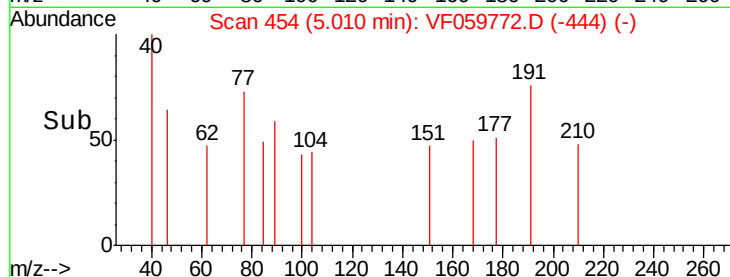
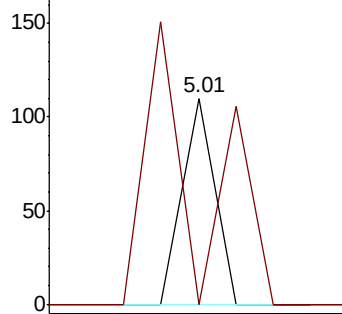
#42
1,2-Dichloroethane
Concen: 64.78 ug/l
RT: 5.01 min Scan# 454
Delta R.T. -0.10 min
Lab File: VF059772.D
Acq: 1 Aug 2018 22:56

Instrument :
MSVOA_F
ClientSampleId :
FK-BPM-03-001-B

Tot Ion: 62 Resp: 65
Ion Ratio Lower Upper
62 100
98 0.0 0.0 9.6

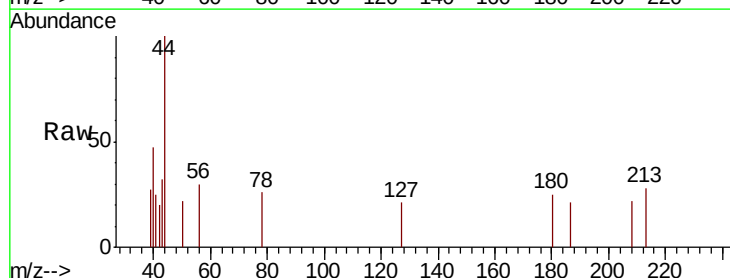


Abundance Ion 62.00 (61.70 to 62.70): VF0
Ion 98.00 (97.70 to 98.70): VF0

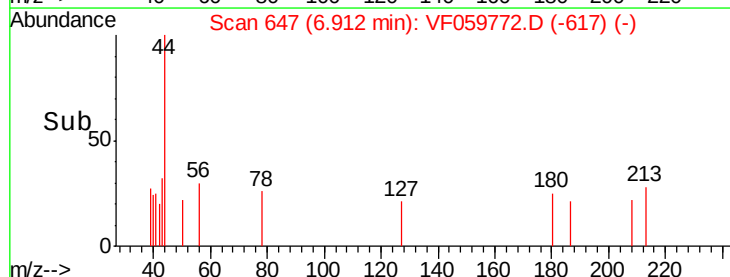
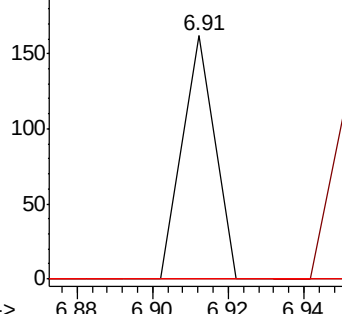


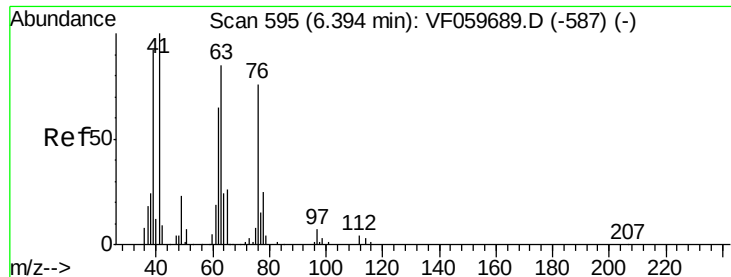
#43
Isopropyl Acetate
Concen: 226.12 ug/l
RT: 6.91 min Scan# 647
Delta R.T. -0.20 min
Lab File: VF059772.D
Acq: 1 Aug 2018 22:56

Tgt Ion: 43 Resp: 96
Ion Ratio Lower Upper
43 100
61 0.0 23.8 35.8#
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

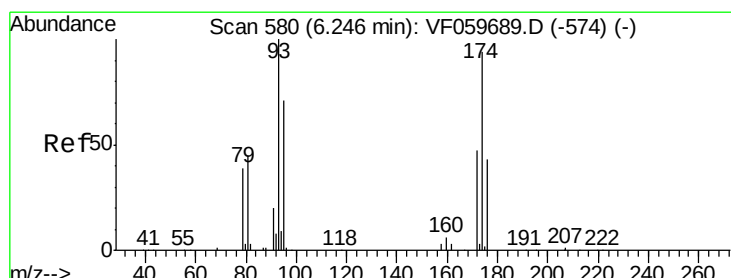
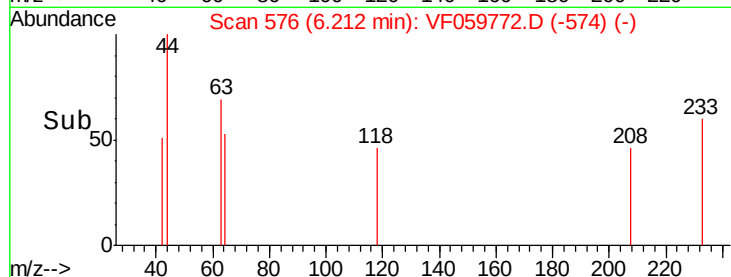
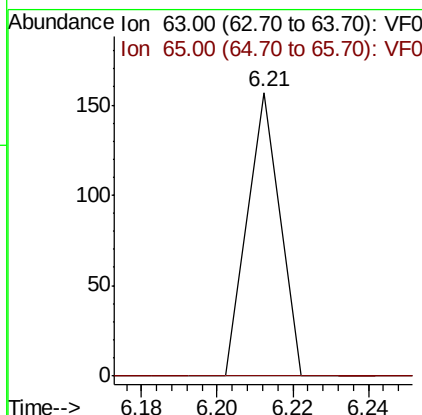
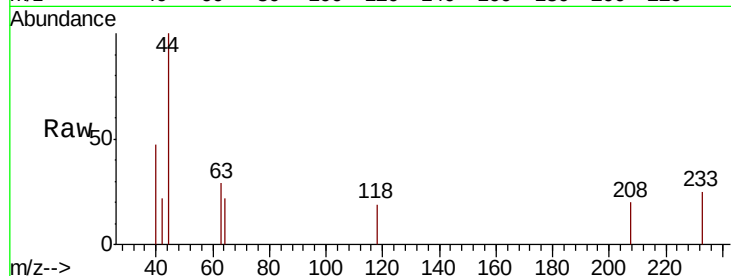




#45
 1,2-Dichloropropane
 Concen: 245.61 ug/l
 RT: 6.21 min Scan# 576
 Delta R.T. -0.18 min
 Lab File: VF059772.D
 Acq: 1 Aug 2018 22:56

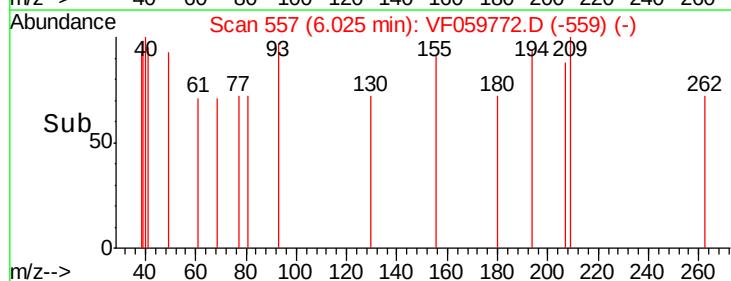
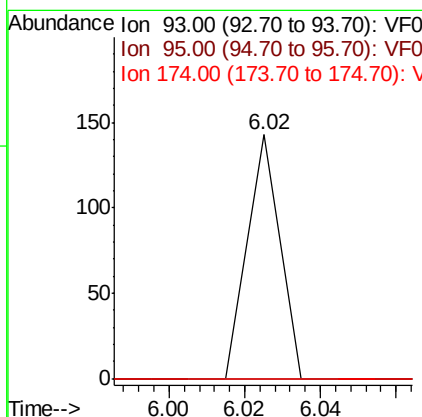
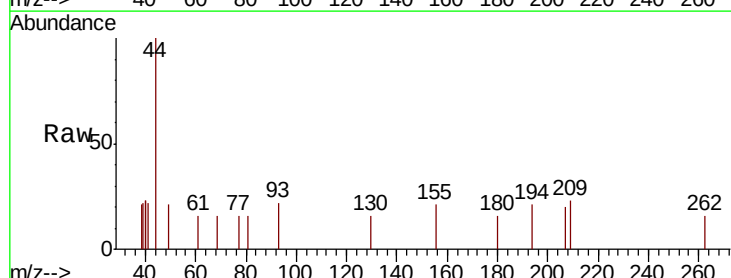
Instrument :
 MSVOA_F
 ClientSampleId :
 FK-BPM-03-001-B

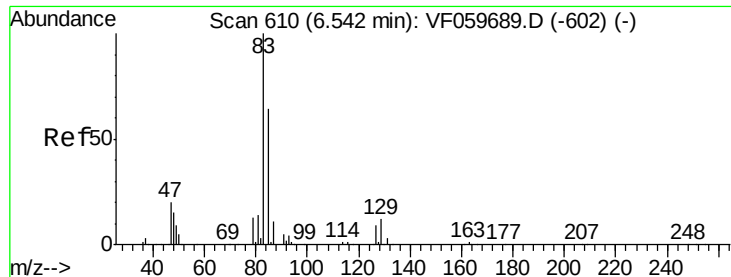
Tot Ion: 63 Resp: 93
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.2 37.8#



#46
 Dibromomethane
 Concen: 236.44 ug/l
 RT: 6.02 min Scan# 557
 Delta R.T. -0.22 min
 Lab File: VF059772.D
 Acq: 1 Aug 2018 22:56

Tgt Ion: 93 Resp: 85
 Ion Ratio Lower Upper
 93 100
 95 0.0 57.1 85.7#
 174 0.0 74.8 112.2#





#47

Bromodichloromethane

Concen: 90.91 ug/l

RT: 6.22 min Scan# 577

Delta R.T. -0.32 min

Lab File: VF059772.D

Acq: 1 Aug 2018 22:56

Instrument :

MSVOA_F

ClientSampleId :

FK-BPM-03-001-B

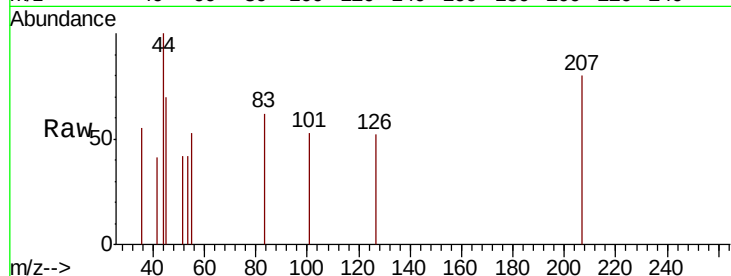
Tot Ion: 83 Resp: 89

Ion Ratio Lower Upper

83 100

85 0.0 51.0 76.6#

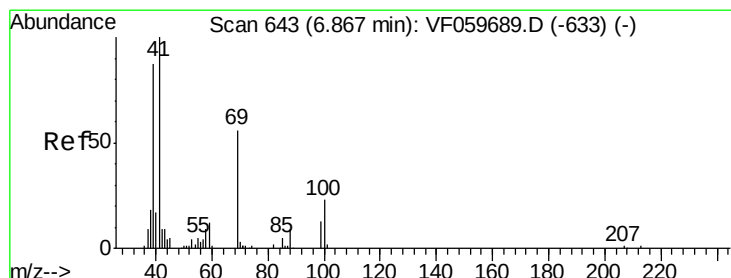
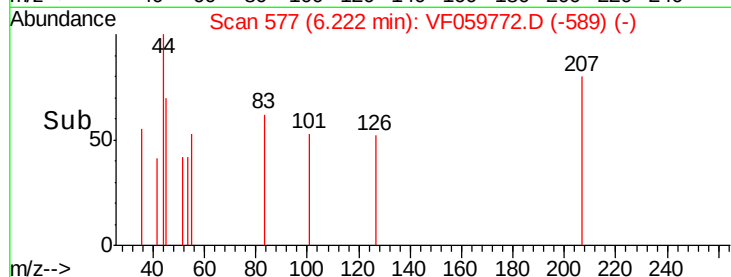
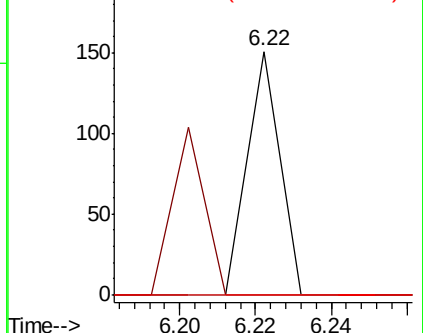
127 0.0 7.3 10.9#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 773.49 ug/l

RT: 6.70 min Scan# 625

Delta R.T. -0.17 min

Lab File: VF059772.D

Acq: 1 Aug 2018 22:56

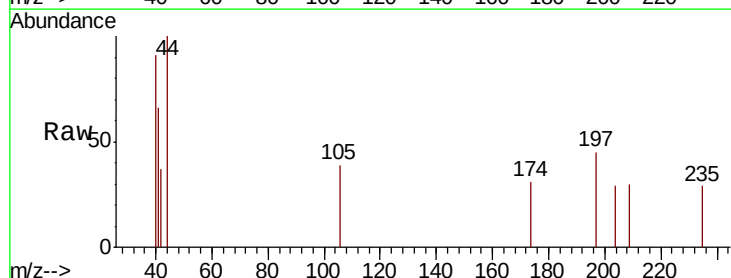
Tgt Ion: 41 Resp: 247

Ion Ratio Lower Upper

41 100

69 0.0 44.4 66.6#

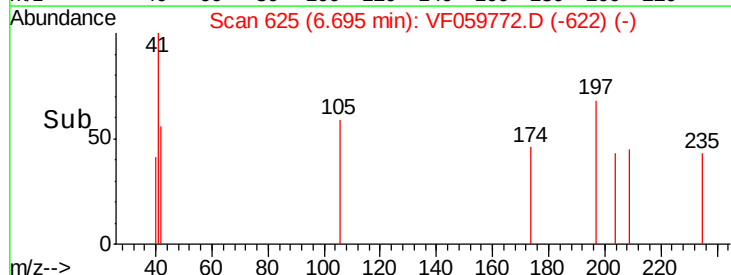
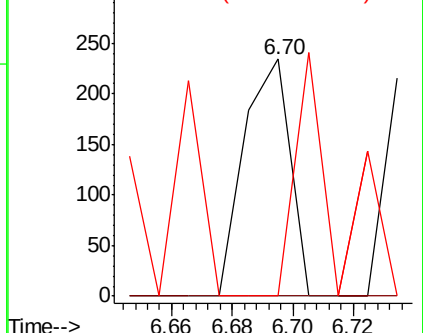
39 0.0 69.4 104.2#

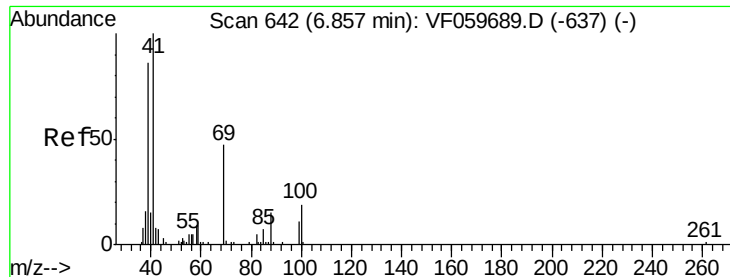


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

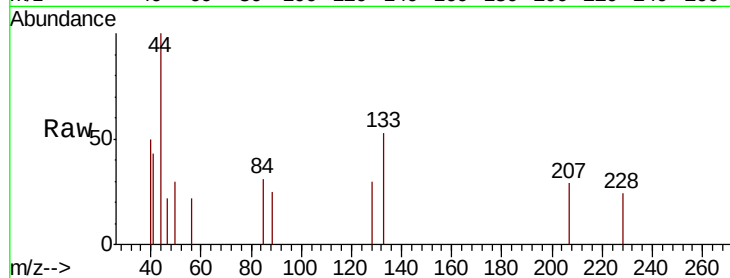




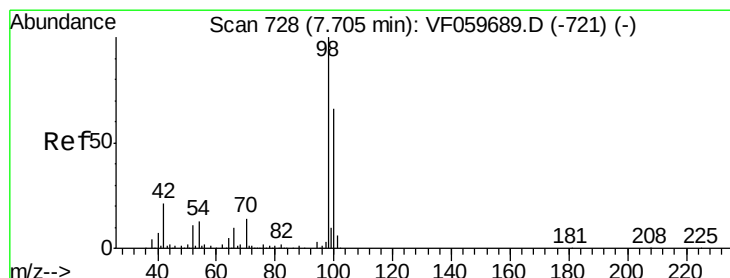
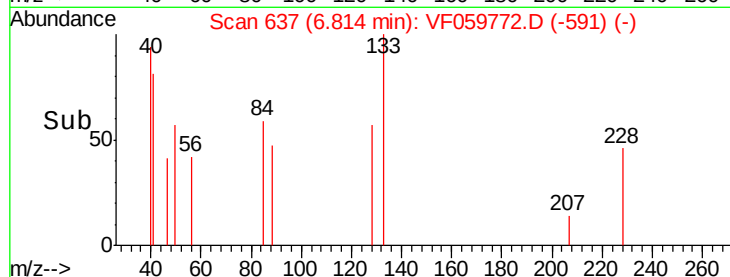
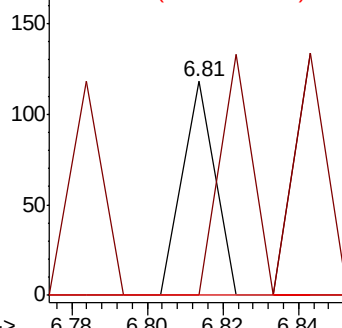
#49
1,4-Dioxane
Concen: 12837.78 ug/l
RT: 6.81 min Scan# 637
Delta R.T. -0.04 min
Lab File: VF059772.D
Acq: 1 Aug 2018 22:56

Instrument :
MSVOA_F
ClientSampleId :
FK-BPM-03-001-B

Tot Ion: 88 Resp: 70
Ion Ratio Lower Upper
88 100
43 0.0 45.2 67.8#
58 0.0 49.0 73.6#

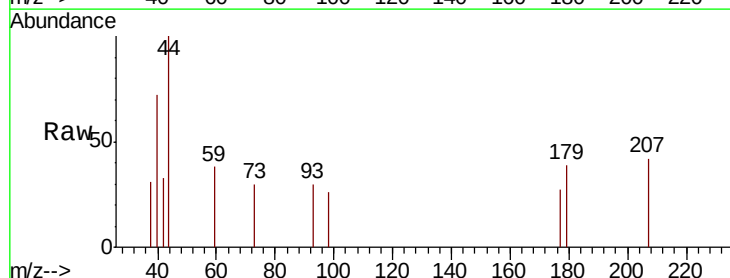


Abundance Ion 88.00 (87.70 to 88.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0

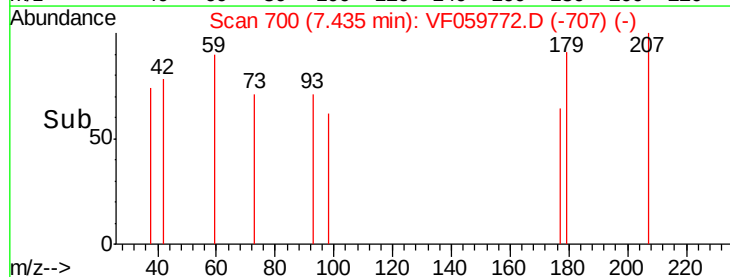
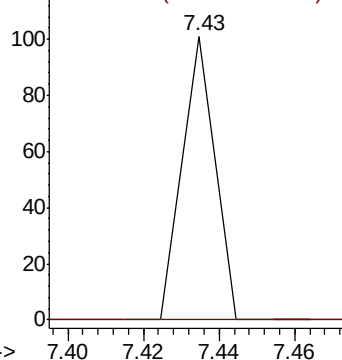


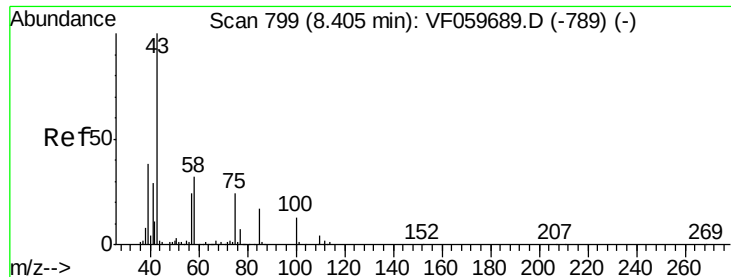
#50
Toluene-d8
Concen: 34.89 ug/l
RT: 7.43 min Scan# 700
Delta R.T. -0.27 min
Lab File: VF059772.D
Acq: 1 Aug 2018 22:56

Tgt Ion: 98 Resp: 60
Ion Ratio Lower Upper
98 100
100 0.0 52.8 79.2#



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





#51

4-Methyl-2-Pentanone

Concen: 467.56 ug/l

RT: 8.19 min Scan# 777

Delta R.T. -0.21 min

Lab File: VF059772.D

Acq: 1 Aug 2018 22:56

Instrument :

MSVOA_F

ClientSampleId :

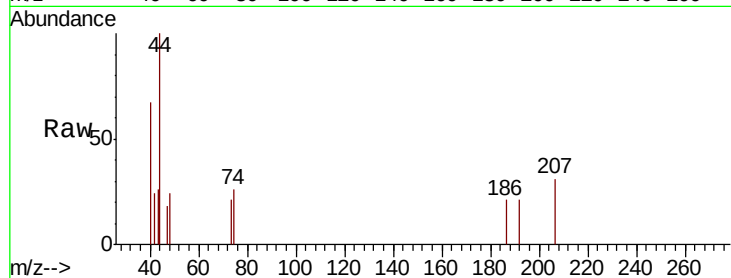
FK-BPM-03-001-B

Tot Ion: 43 Resp: 151

Ion Ratio Lower Upper

43 100

58 0.0 25.9 38.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.19

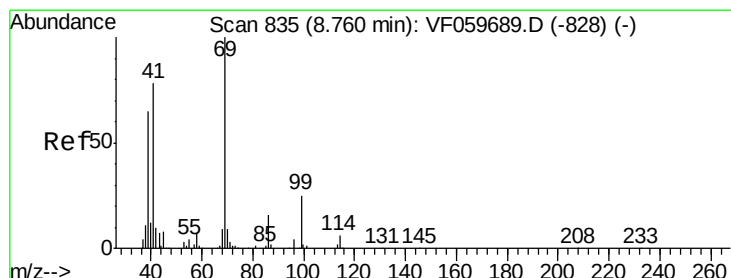
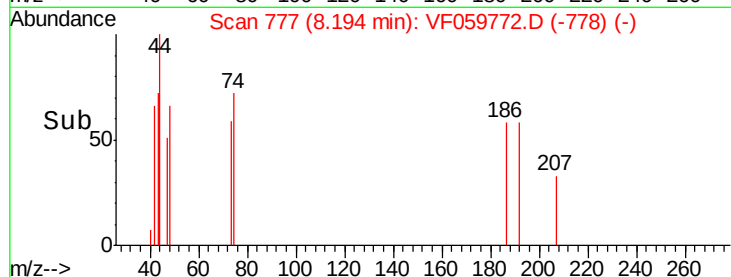
150

100

50

0

Time--> 8.14 8.16 8.18 8.20 8.22



#56

Ethyl methacrylate

Concen: 513.61 ug/l

RT: 8.39 min Scan# 797

Delta R.T. -0.37 min

Lab File: VF059772.D

Acq: 1 Aug 2018 22:56

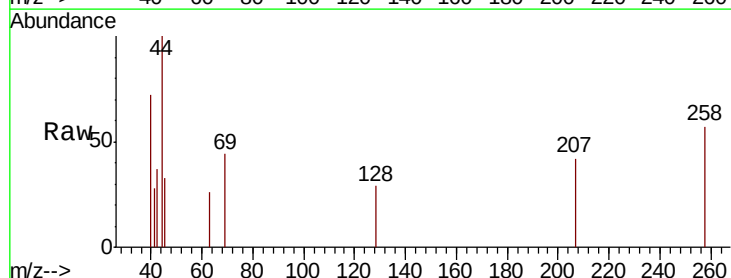
Tgt Ion: 69 Resp: 208

Ion Ratio Lower Upper

69 100

41 63.9 62.3 93.5

39 0.0 52.4 78.6#



Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

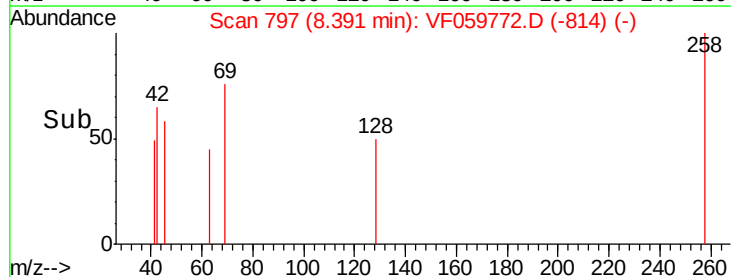
300

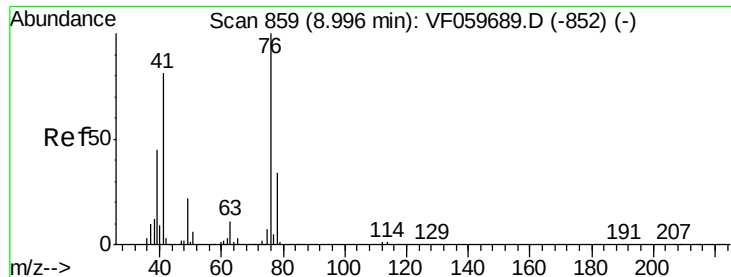
200

100

0

Time--> 8.36 8.38 8.40 8.42

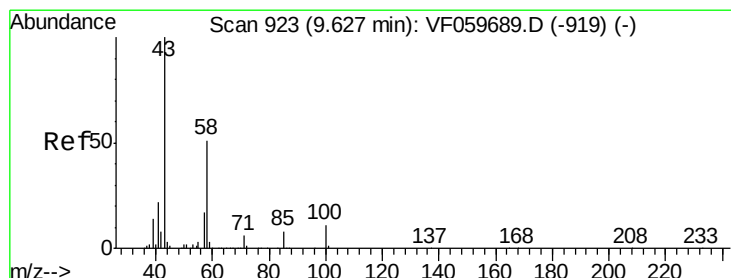
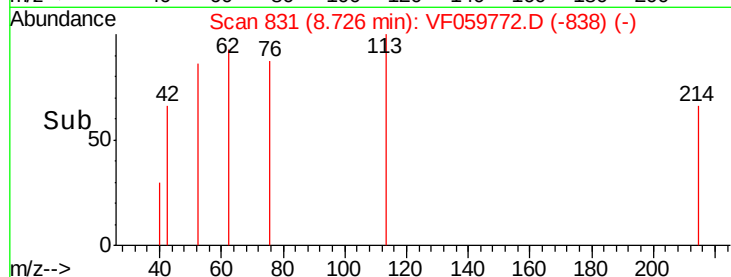
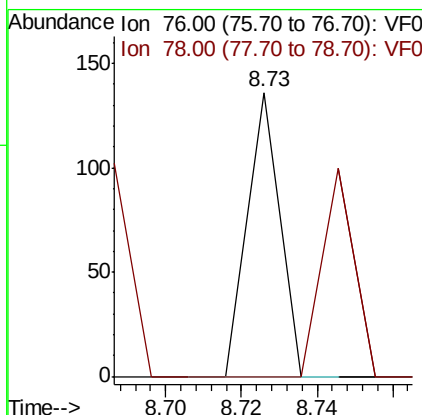
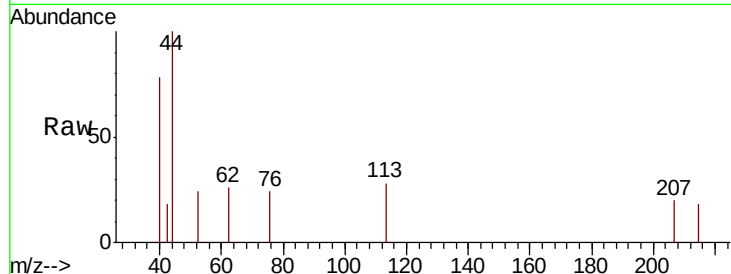




#57
 1,3-Dichloropropane
 Concen: 120.09 ug/l
 RT: 8.73 min Scan# 831
 Delta R.T. -0.27 min
 Lab File: VF059772.D
 Acq: 1 Aug 2018 22:56

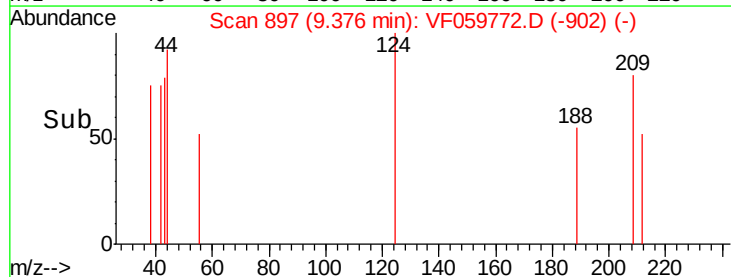
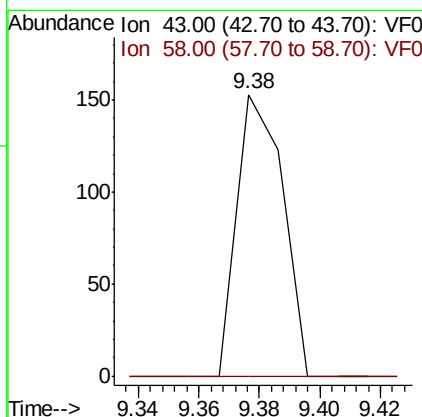
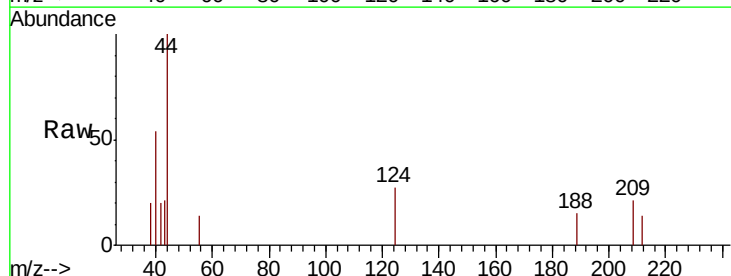
Instrument :
 MSVOA_F
 ClientSampleId :
 FK-BPM-03-001-B

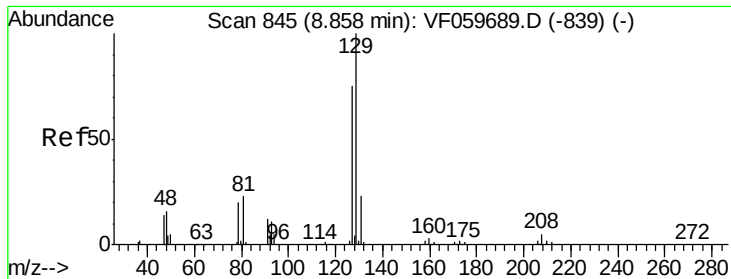
Tot Ion: 76 Resp: 80
 Ion Ratio Lower Upper
 76 100
 78 0.0 27.2 40.8#



#59
 2-Hexanone
 Concen: 629.83 ug/l
 RT: 9.38 min Scan# 897
 Delta R.T. -0.25 min
 Lab File: VF059772.D
 Acq: 1 Aug 2018 22:56

Tgt Ion: 43 Resp: 163
 Ion Ratio Lower Upper
 43 100
 58 0.0 23.3 69.8#





#60

Dibromochloromethane

Concen: 103.62 ug/l

RT: 8.57 min Scan# 815

Delta R.T. -0.29 min

Lab File: VF059772.D

Acq: 1 Aug 2018 22:56

Instrument :

MSVOA_F

ClientSampleId :

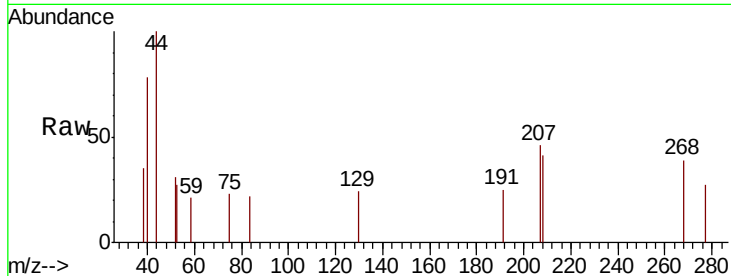
FK-BPM-03-001-B

Tot Ion:129 Resp: 71

Ion Ratio Lower Upper

129 100

127 0.0 37.7 113.1#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

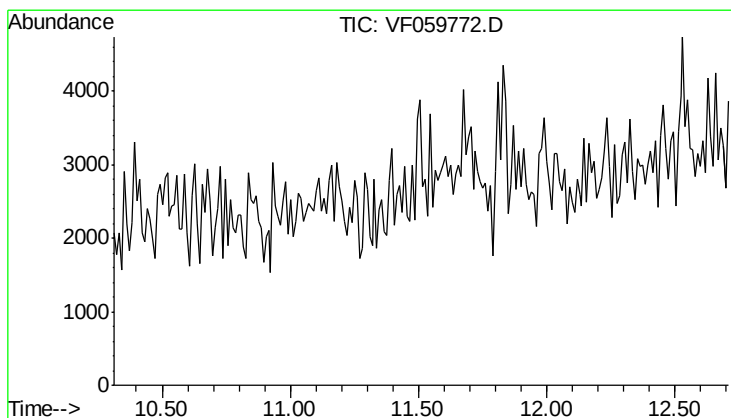
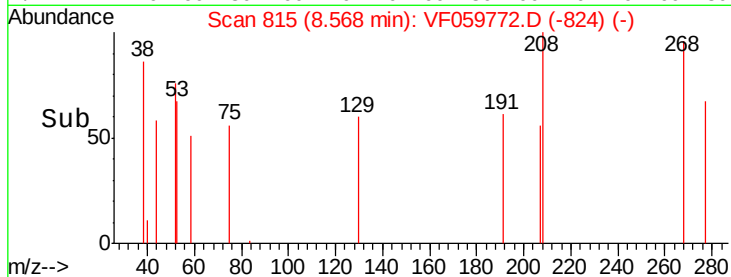
8.57

100

50

0

Time-->



#62

4-Bromofluorobenzene

Concen: 0.00 ug/l

Expected RT: 11.51 min

Lab File: VF059772.D

Acq: 1 Aug 2018 22:56

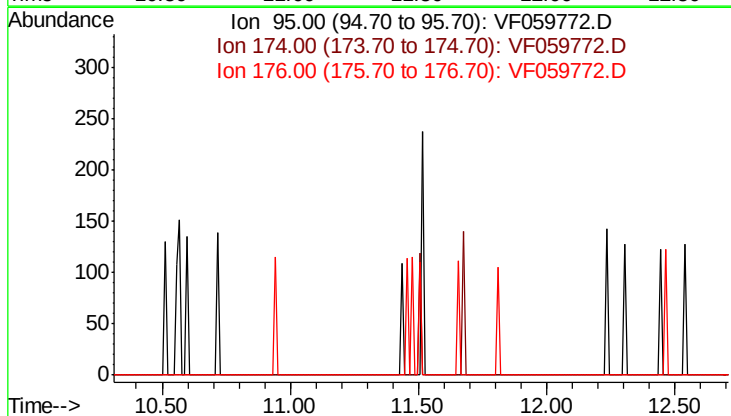
Tgt Ion: 95

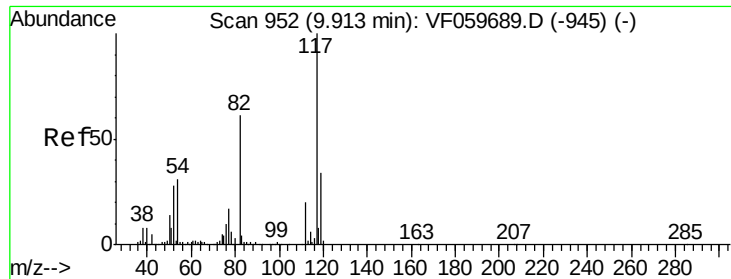
Sig Exp Ratio

95 100

174 89.2

176 86.5

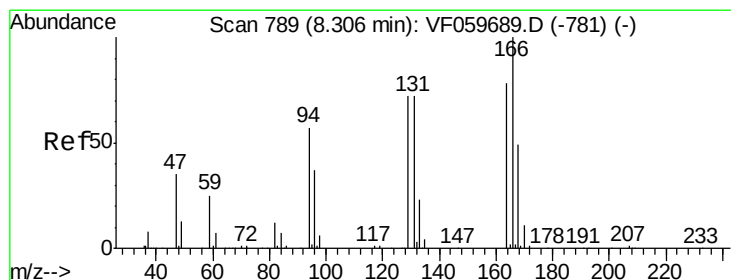
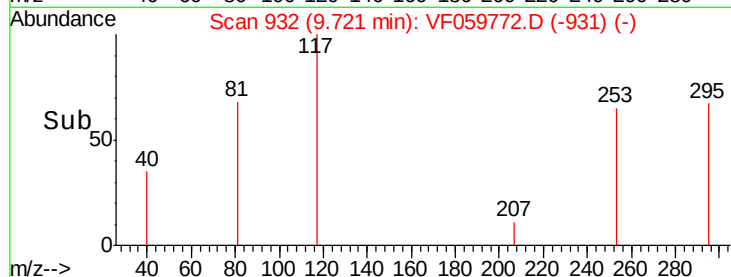
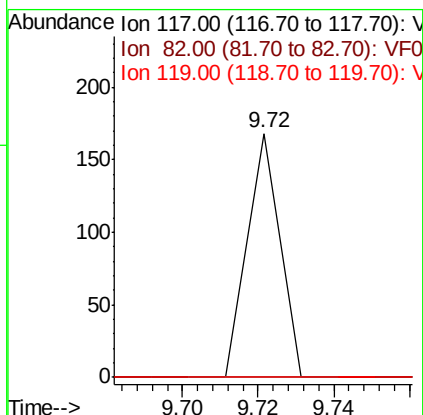
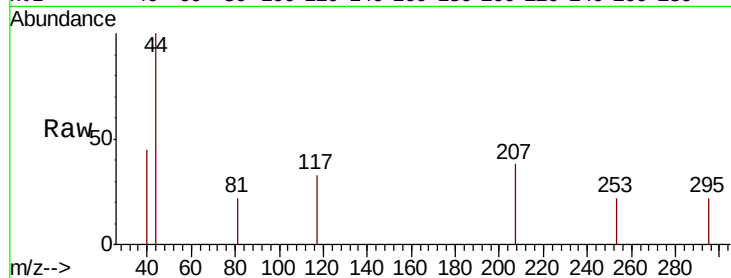




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.72 min Scan# 932
Delta R.T. -0.19 min
Lab File: VF059772.D
Acq: 1 Aug 2018 22:56

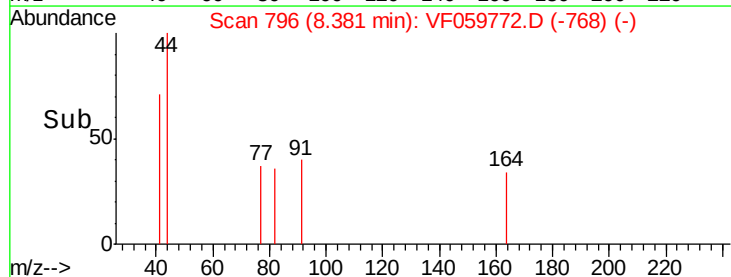
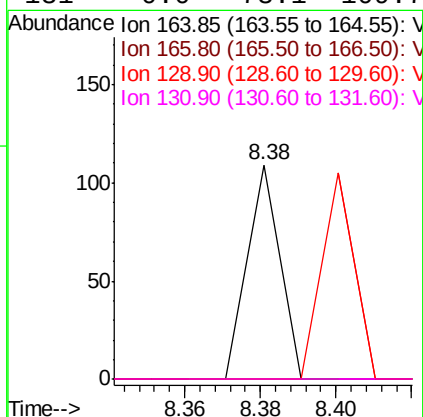
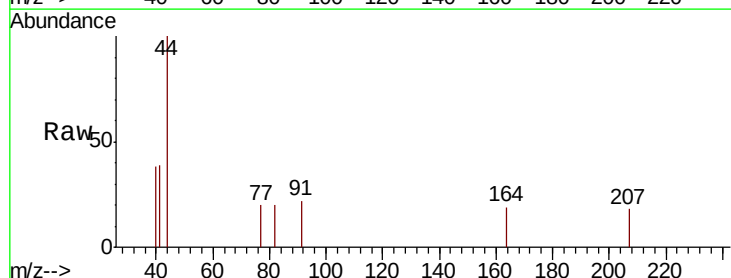
Instrument :
MSVOA_F
ClientSampleId :
FK-BPM-03-001-B

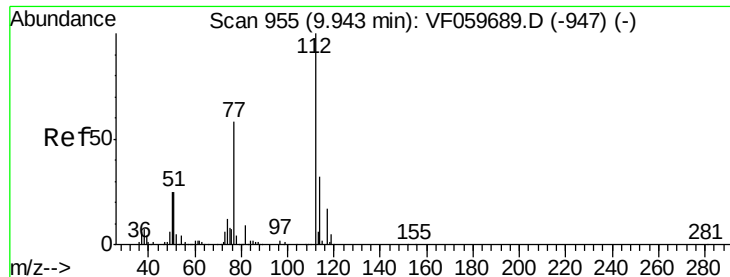
Tot Ion	Ratio	Lower	Upper
117	100		
82	0.0	49.0	73.4#
119	0.0	27.3	40.9#



#64
Tetrachloroethene
Concen: 100.20 ug/l
RT: 8.38 min Scan# 796
Delta R.T. 0.07 min
Lab File: VF059772.D
Acq: 1 Aug 2018 22:56

Tgt Ion	Ratio	Lower	Upper
164	100		
166	0.0	102.1	153.1#
129	0.0	73.8	110.6#
131	0.0	73.1	109.7#

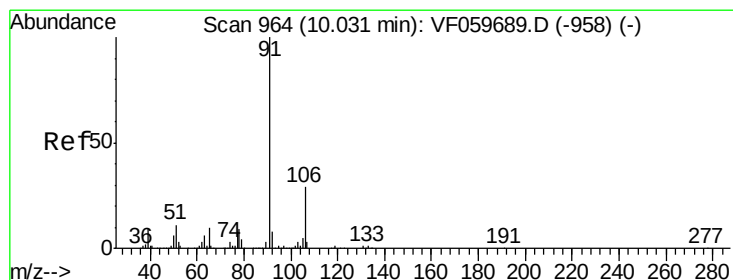
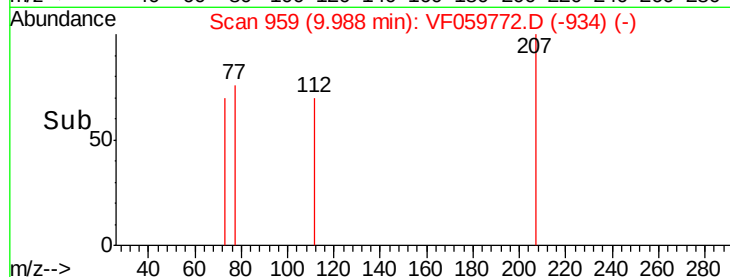
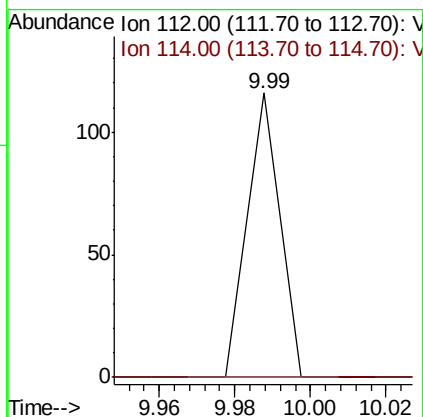
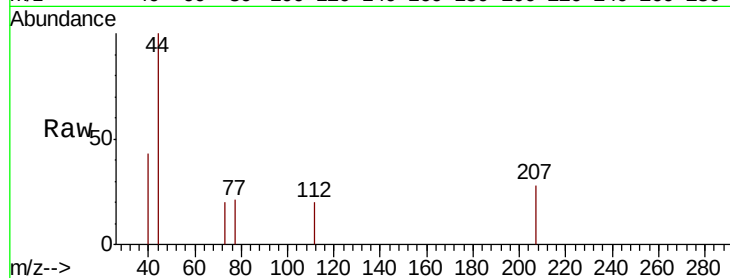




#65
Chlorobenzene
Concen: 34.84 ug/l
RT: 9.99 min Scan# 959
Delta R.T. 0.04 min
Lab File: VF059772.D
Acq: 1 Aug 2018 22:56

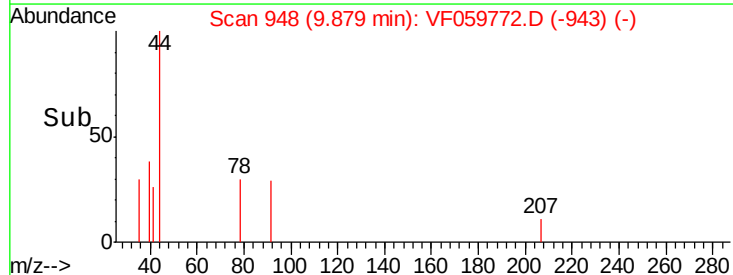
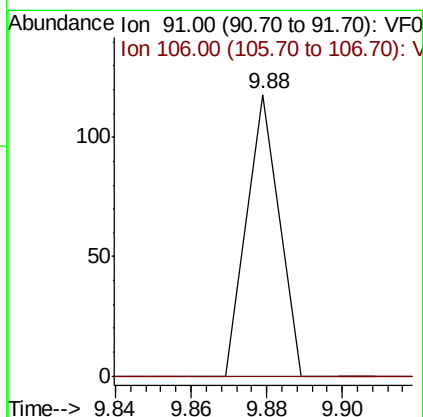
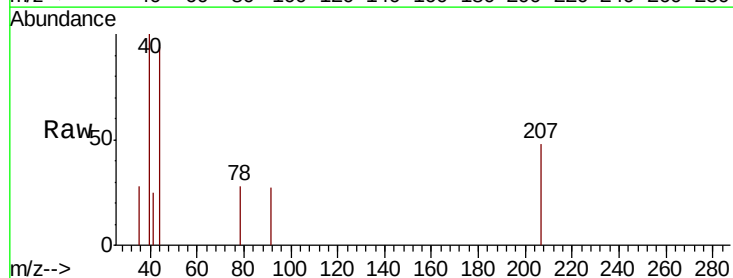
Instrument :
MSVOA_F
ClientSampleId :
FK-BPM-03-001-B

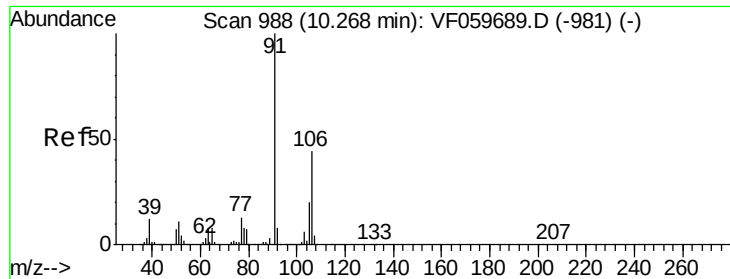
Tot Ion:112 Resp: 69
Ion Ratio Lower Upper
112 100
114 0.0 25.6 38.4#



#67
Ethyl Benzene
Concen: 20.43 ug/l
RT: 9.88 min Scan# 948
Delta R.T. -0.15 min
Lab File: VF059772.D
Acq: 1 Aug 2018 22:56

Tgt Ion: 91 Resp: 70
Ion Ratio Lower Upper
91 100
106 0.0 22.9 34.3#

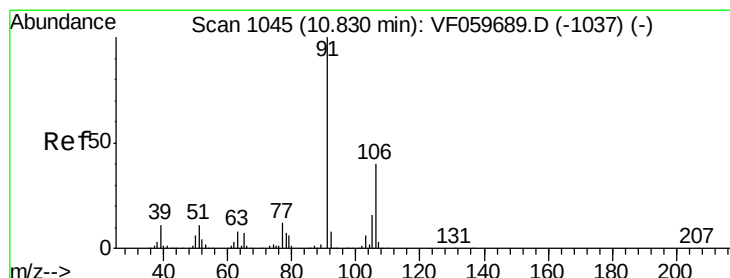
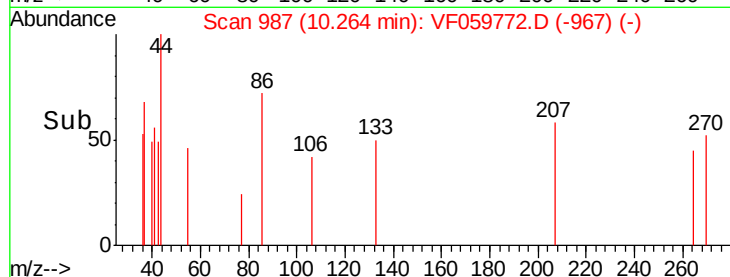
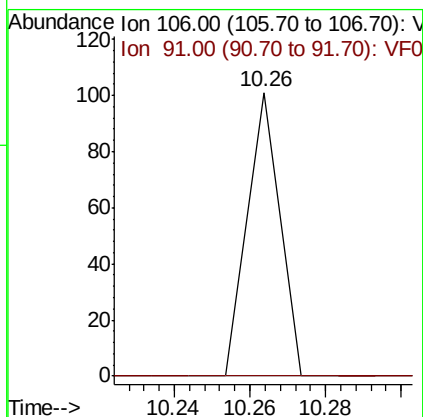
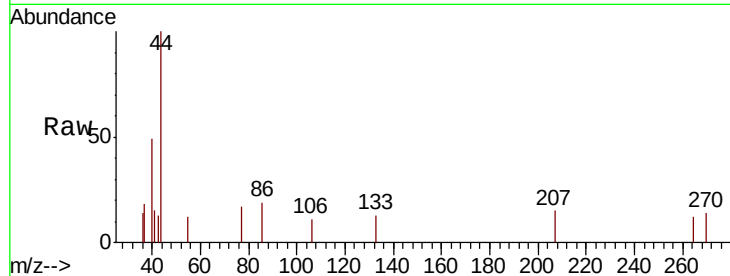




#68
m/p-Xylenes
Concen: 52.29 ug/l
RT: 10.26 min Scan# 987
Delta R.T. -0.00 min
Lab File: VF059772.D
Acq: 1 Aug 2018 22:56

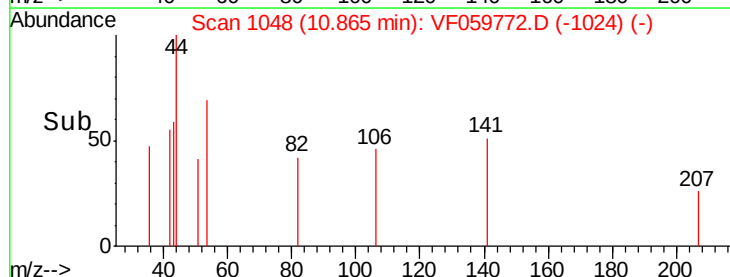
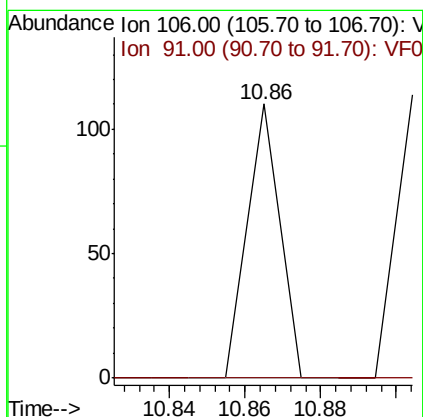
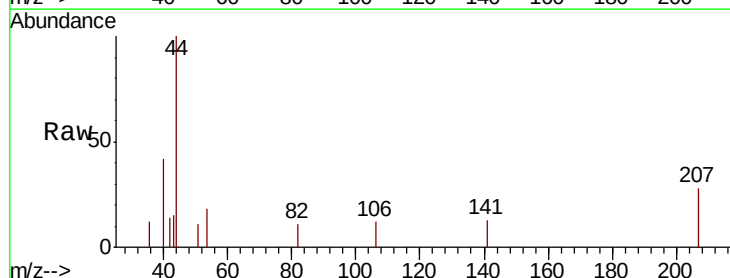
Instrument :
MSVOA_F
ClientSampleId :
FK-BPM-03-001-B

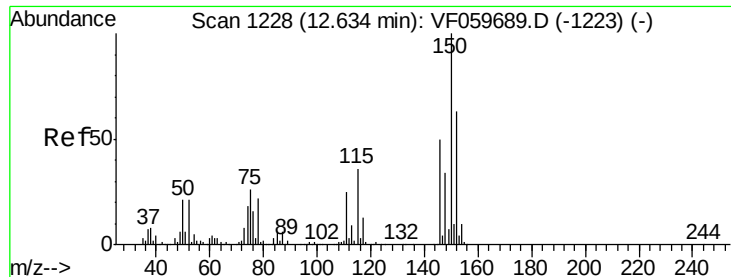
Tot Ion:106 Resp: 60
Ion Ratio Lower Upper
106 100
91 0.0 181.7 272.5#



#69
o-Xylene
Concen: 51.48 ug/l
RT: 10.86 min Scan# 1048
Delta R.T. 0.04 min
Lab File: VF059772.D
Acq: 1 Aug 2018 22:56

Tgt Ion:106 Resp: 65
Ion Ratio Lower Upper
106 100
91 0.0 124.6 373.7#



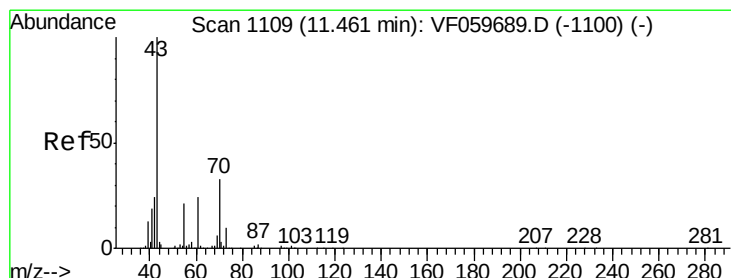
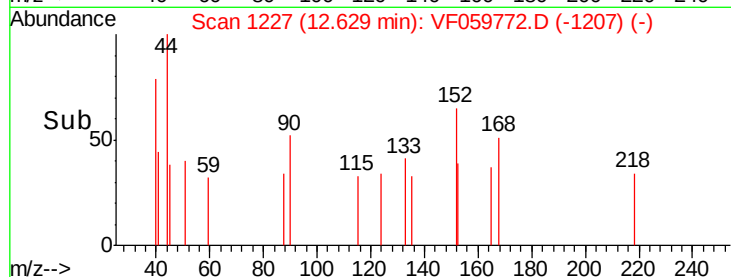
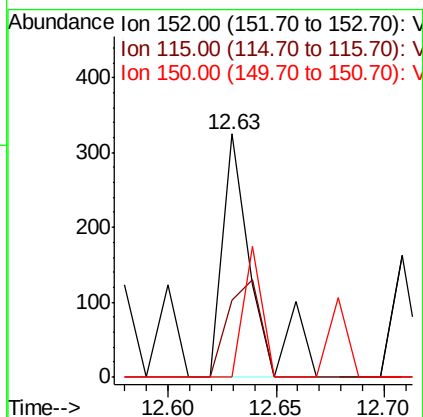
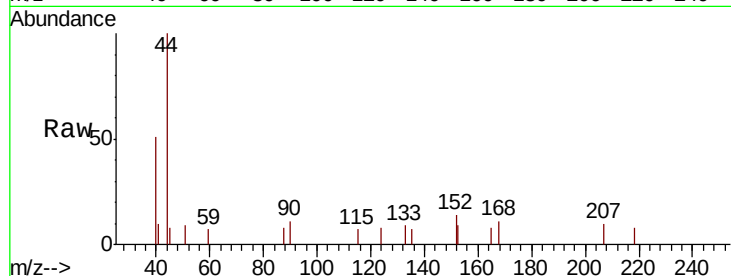


#72

1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.63 min Scan# 1227
Delta R.T. -0.00 min
Lab File: VF059772.D
Acq: 1 Aug 2018 22:56

Instrument :
MSVOA_F
ClientSampleId :
FK-BPM-03-001-B

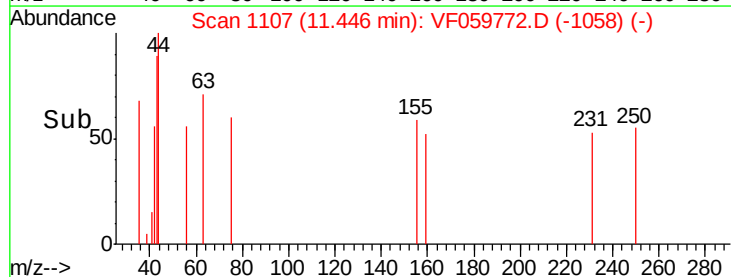
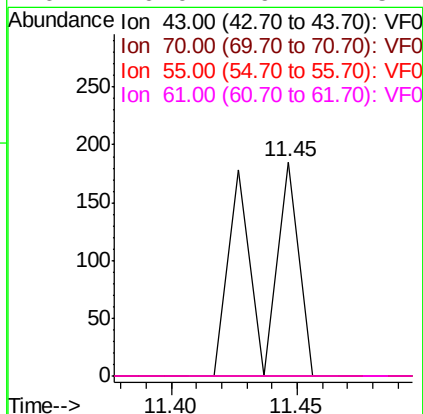
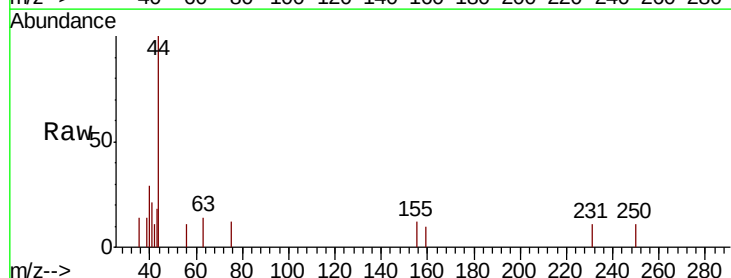
Tot Ion:152 Resp: 326
Ion Ratio Lower Upper
152 100
115 31.7 28.2 84.6
150 0.0 0.0 316.2

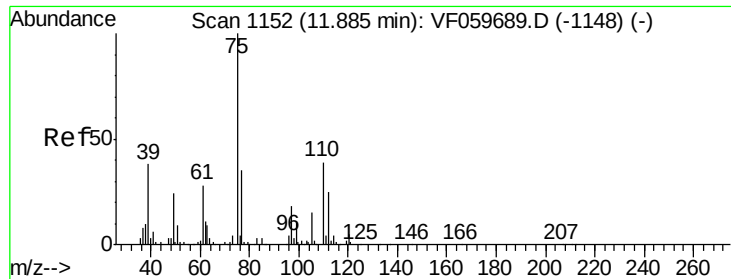


#74

N-aryl acetate
Concen: 39.84 ug/l
RT: 11.45 min Scan# 1107
Delta R.T. -0.01 min
Lab File: VF059772.D
Acq: 1 Aug 2018 22:56

Tgt Ion: 43 Resp: 215
Ion Ratio Lower Upper
43 100
70 0.0 26.3 39.5#
55 0.0 16.6 25.0#
61 0.0 19.1 28.7#





#76

1,2,3-Trichloropropane

Concen: 23.95 ug/l

RT: 11.99 min Scan# 1162

Delta R.T. 0.10 min

Lab File: VF059772.D

Acq: 1 Aug 2018 22:56

Instrument :

MSVOA_F

ClientSampleId :

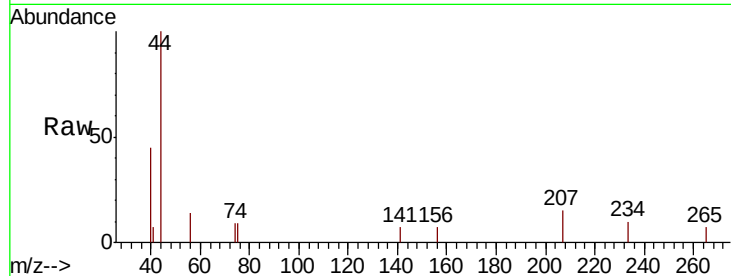
FK-BPM-03-001-B

Tot Ion: 75 Resp: 82

Ion Ratio Lower Upper

75 100

77 0.0 18.0 54.0#



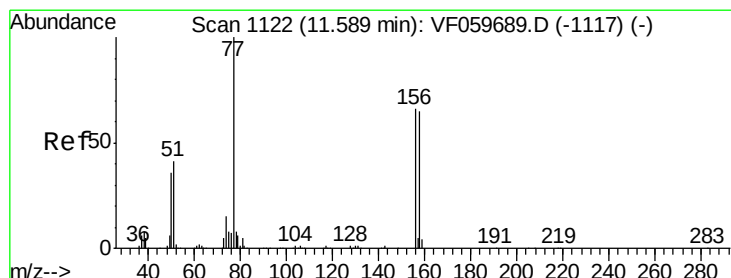
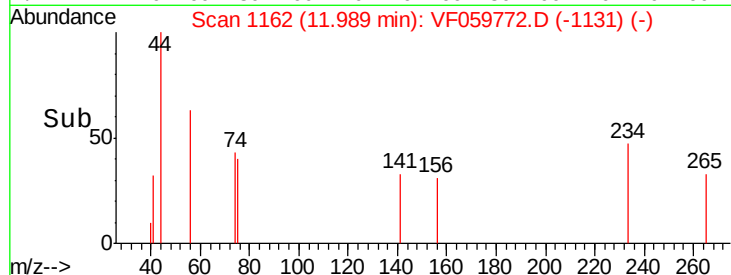
Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

11.99

11.96 11.98 12.00 12.02

Time-->



#77

Bromobenzene

Concen: 10.92 ug/l

RT: 11.60 min Scan# 1123

Delta R.T. 0.02 min

Lab File: VF059772.D

Acq: 1 Aug 2018 22:56

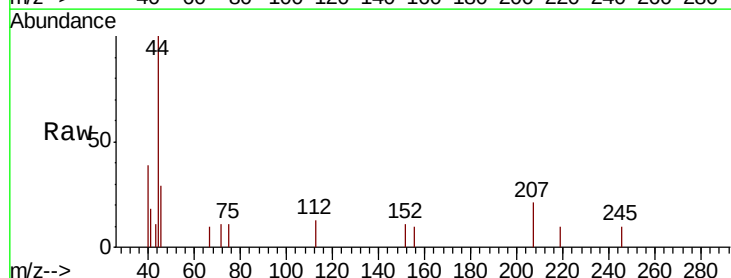
Tgt Ion: 156 Resp: 61

Ion Ratio Lower Upper

156 100

77 0.0 75.2 225.6#

158 0.0 49.1 147.3#



Abundance Ion 156.00 (155.70 to 156.70): V

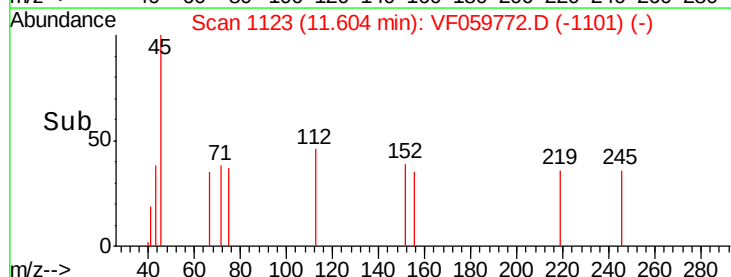
Ion 77.00 (76.70 to 77.70): VF0

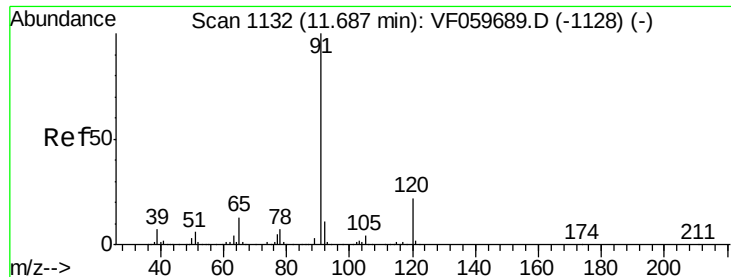
Ion 158.00 (157.70 to 158.70): V

11.60

11.58 11.60 11.62

Time-->





#78

n-propylbenzene

Concen: Below Cal

RT: 11.65 min Scan# 1128

Delta R.T. -0.03 min

Lab File: VF059772.D

Acq: 1 Aug 2018 22:56

Instrument :

MSVOA_F

ClientSampleId :

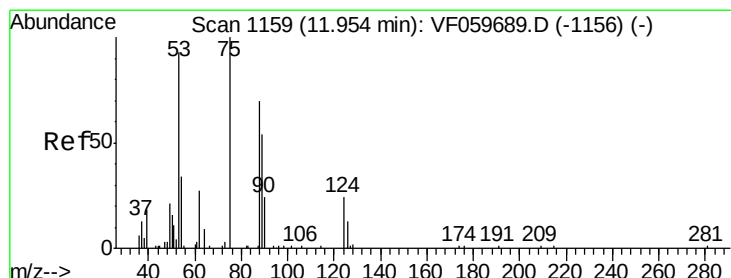
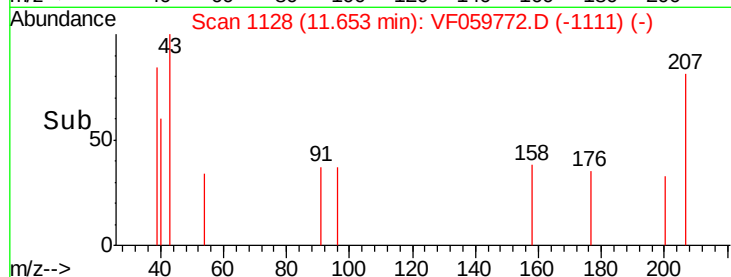
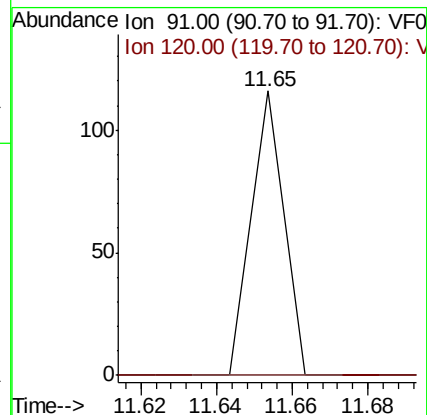
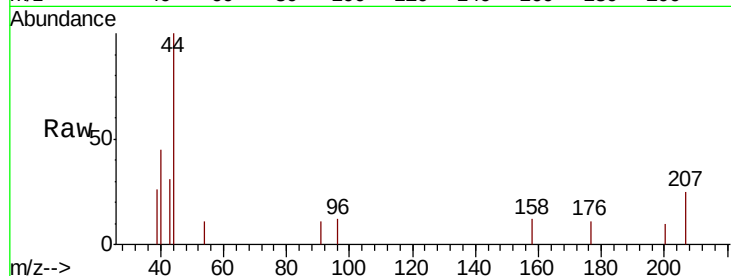
FK-BPM-03-001-B

Tot Ion: 91 Resp: 69

Ion Ratio Lower Upper

91 100

120 0.0 11.0 33.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 57.83 ug/l

RT: 11.99 min Scan# 1162

Delta R.T. 0.04 min

Lab File: VF059772.D

Acq: 1 Aug 2018 22:56

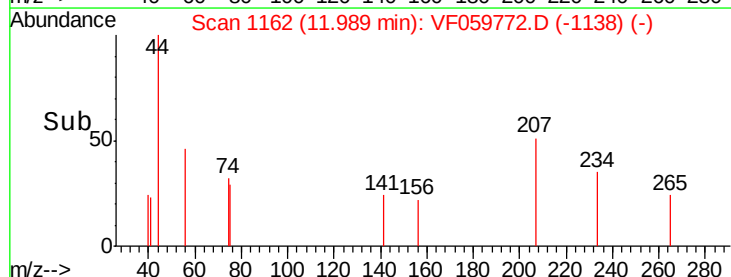
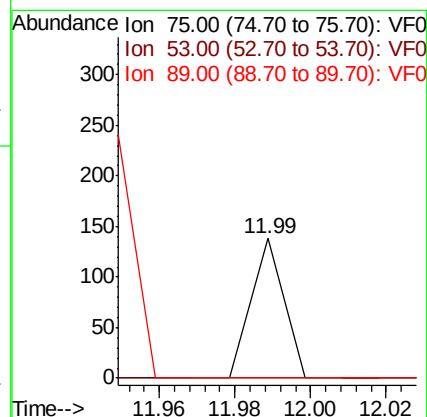
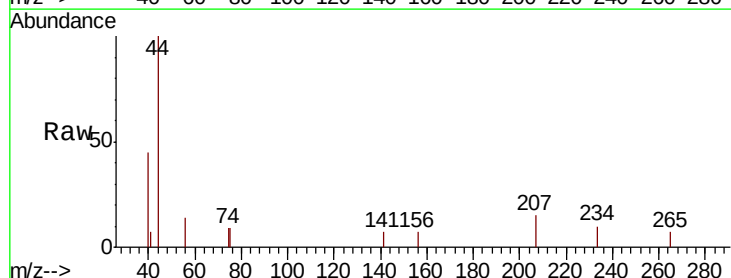
Tgt Ion: 75 Resp: 82

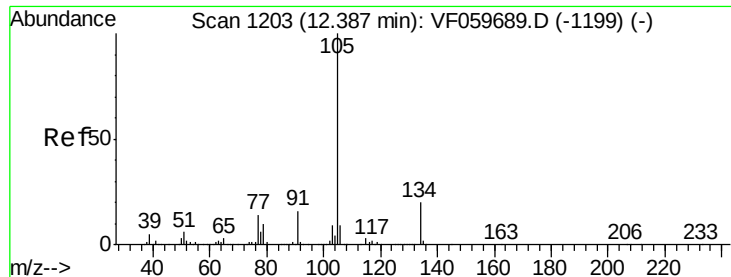
Ion Ratio Lower Upper

75 100

53 0.0 78.3 117.5#

89 0.0 45.4 68.2#

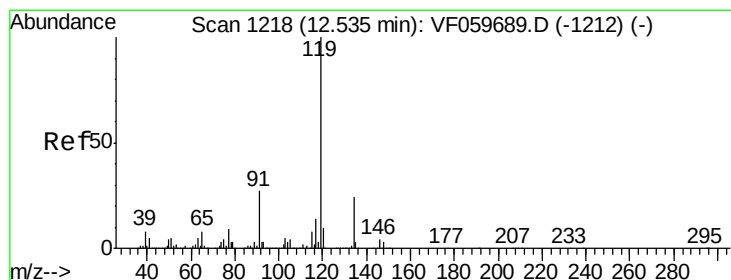
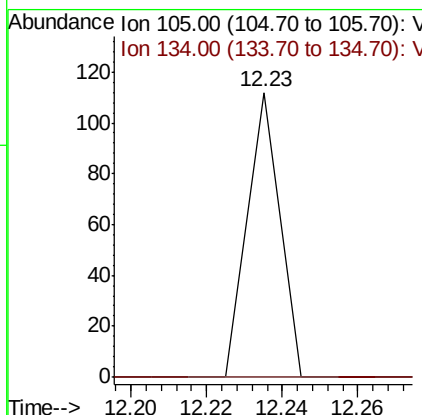
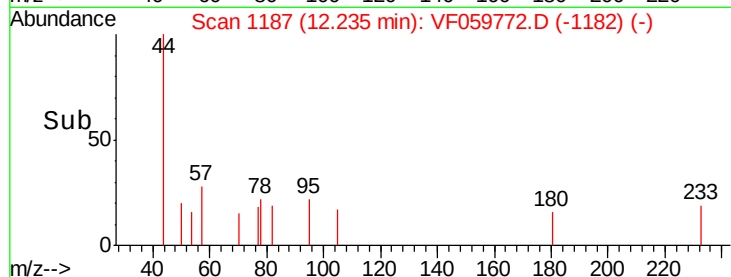
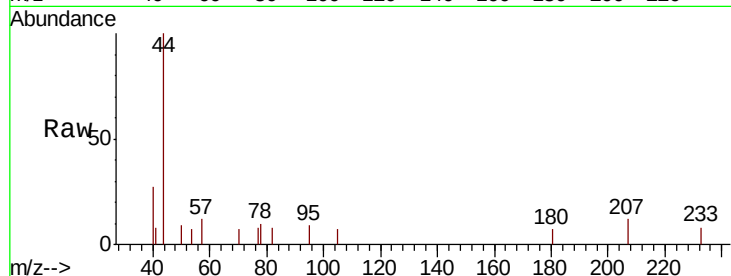




#85
 sec-Butylbenzene
 Concen: Below Cal
 RT: 12.23 min Scan# 1187
 Delta R.T. -0.15 min
 Lab File: VF059772.D
 Acq: 1 Aug 2018 22:56

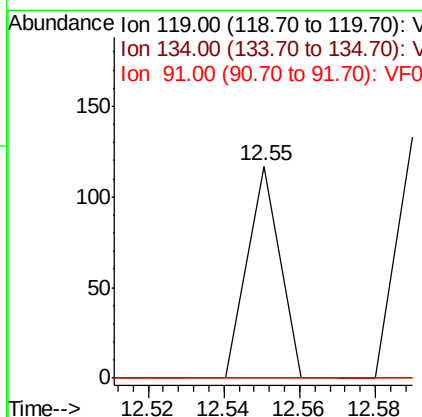
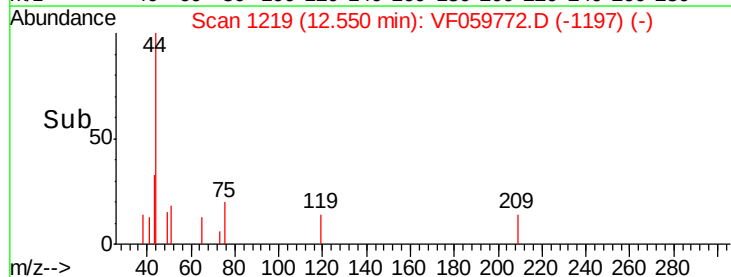
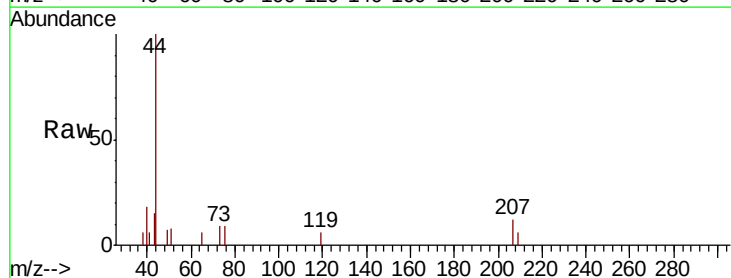
Instrument :
 MSVOA_F
 ClientSampleId :
 FK-BPM-03-001-B

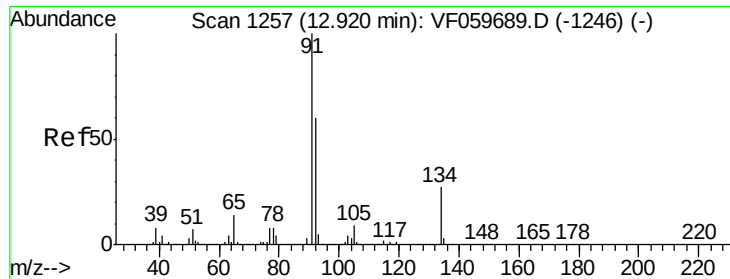
Tot Ion:105 Resp: 66
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.8 29.3#



#86
 p-Isopropyltoluene
 Concen: Below Cal
 RT: 12.55 min Scan# 1219
 Delta R.T. 0.02 min
 Lab File: VF059772.D
 Acq: 1 Aug 2018 22:56

Tgt Ion:119 Resp: 69
 Ion Ratio Lower Upper
 119 100
 134 0.0 12.2 36.6#
 91 0.0 13.4 40.2#

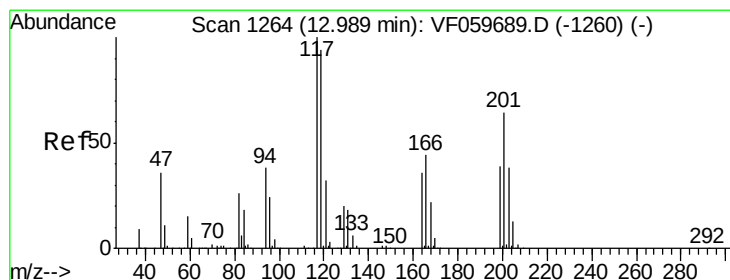
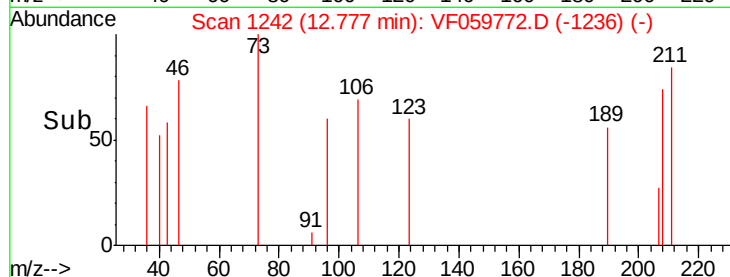
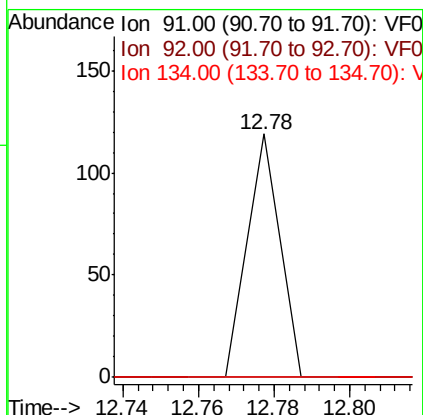
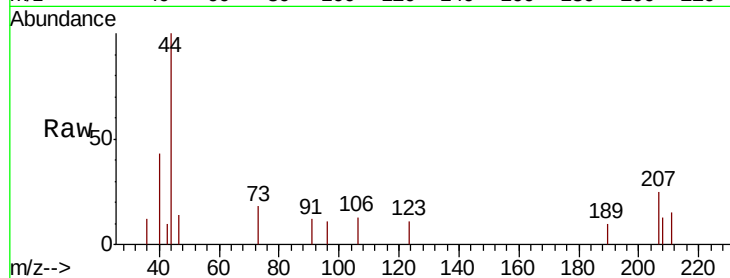




#89
n-Butylbenzene
Concen: Below Cal
RT: 12.78 min Scan# 1242
Delta R.T. -0.14 min
Lab File: VF059772.D
Acq: 1 Aug 2018 22:56

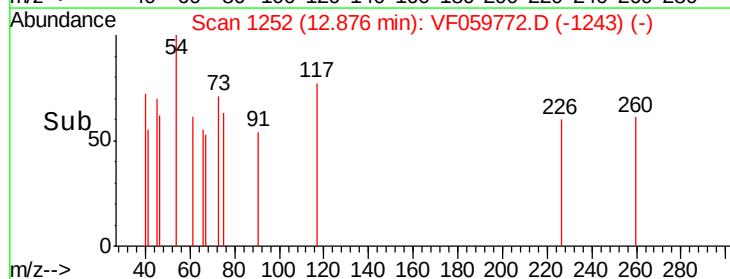
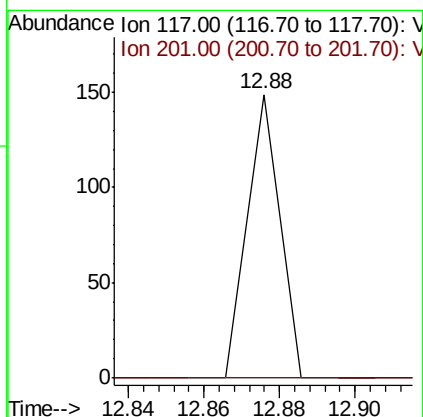
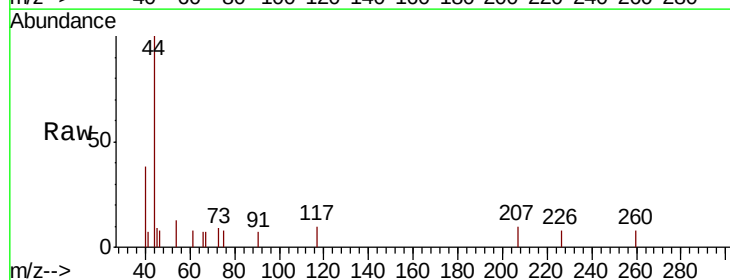
Instrument :
MSVOA_F
ClientSampleId :
FK-BPM-03-001-B

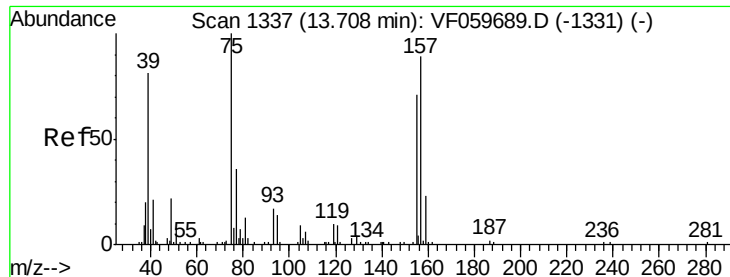
Tot Ion	Ratio	Lower	Upper
91	100		
92	0.0	30.1	90.3#
134	0.0	13.7	41.0#



#90
Hexachloroethane
Concen: 16.31 ug/l
RT: 12.88 min Scan# 1252
Delta R.T. -0.11 min
Lab File: VF059772.D
Acq: 1 Aug 2018 22:56

Tgt Ion	Ratio	Lower	Upper
117	100		
201	0.0	31.9	95.5#





#92

1,2-Dibromo-3-Chloropropane

Concen: 251.95 ug/l

RT: 13.70 min Scan# 1336

Delta R.T. -0.00 min

Lab File: VF059772.D

Acq: 1 Aug 2018 22:56

Instrument :

MSVOA_F

ClientSampleId :

FK-BPM-03-001-B

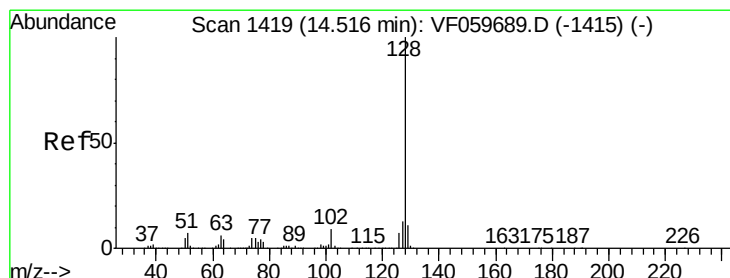
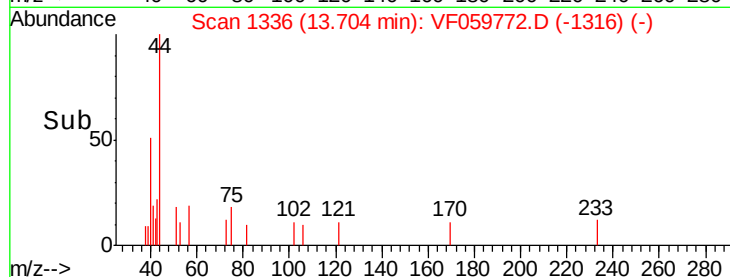
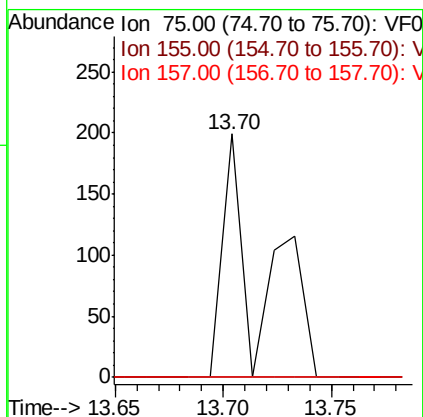
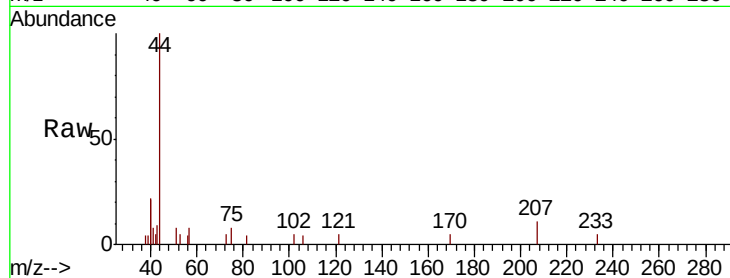
Tot Ion: 75 Resp: 248

Ion Ratio Lower Upper

75 100

155 0.0 35.4 106.2#

157 0.0 44.4 133.2#



#95

Naphthalene

Concen: 30.52 ug/l

RT: 14.54 min Scan# 1421

Delta R.T. 0.03 min

Lab File: VF059772.D

Acq: 1 Aug 2018 22:56

Tgt Ion: 128 Resp: 429

Ion Ratio Lower Upper

128 100

127 0.0 10.0 15.0#

129 0.0 8.6 13.0#

