

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070618\
 Data File : VF059453.D
 Acq On : 6 Jul 2018 16:55
 Operator : VA/AP
 Sample : J3820-01
 Misc : 6.21g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 BU-03-070318

Quant Time: Jul 07 01:50:11 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 26 08:45:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.02	168	211195	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.74	114	313520	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.89	117	245632	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.62	152	85843	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.00	65	123382	45.22	ug/l	-0.01
Spiked Amount				50.000		
Recovery						90.44%
35) Dibromofluoromethane	4.28	113	123586	53.95	ug/l	0.00
Spiked Amount				50.000		
Recovery						107.90%
50) Toluene-d8	7.69	98	236405	41.68	ug/l	-0.01
Spiked Amount				50.000		
Recovery						83.36%
62) 4-Bromofluorobenzene	11.49	95	97317	30.42	ug/l	-0.01
Spiked Amount				50.000		
Recovery						60.84%

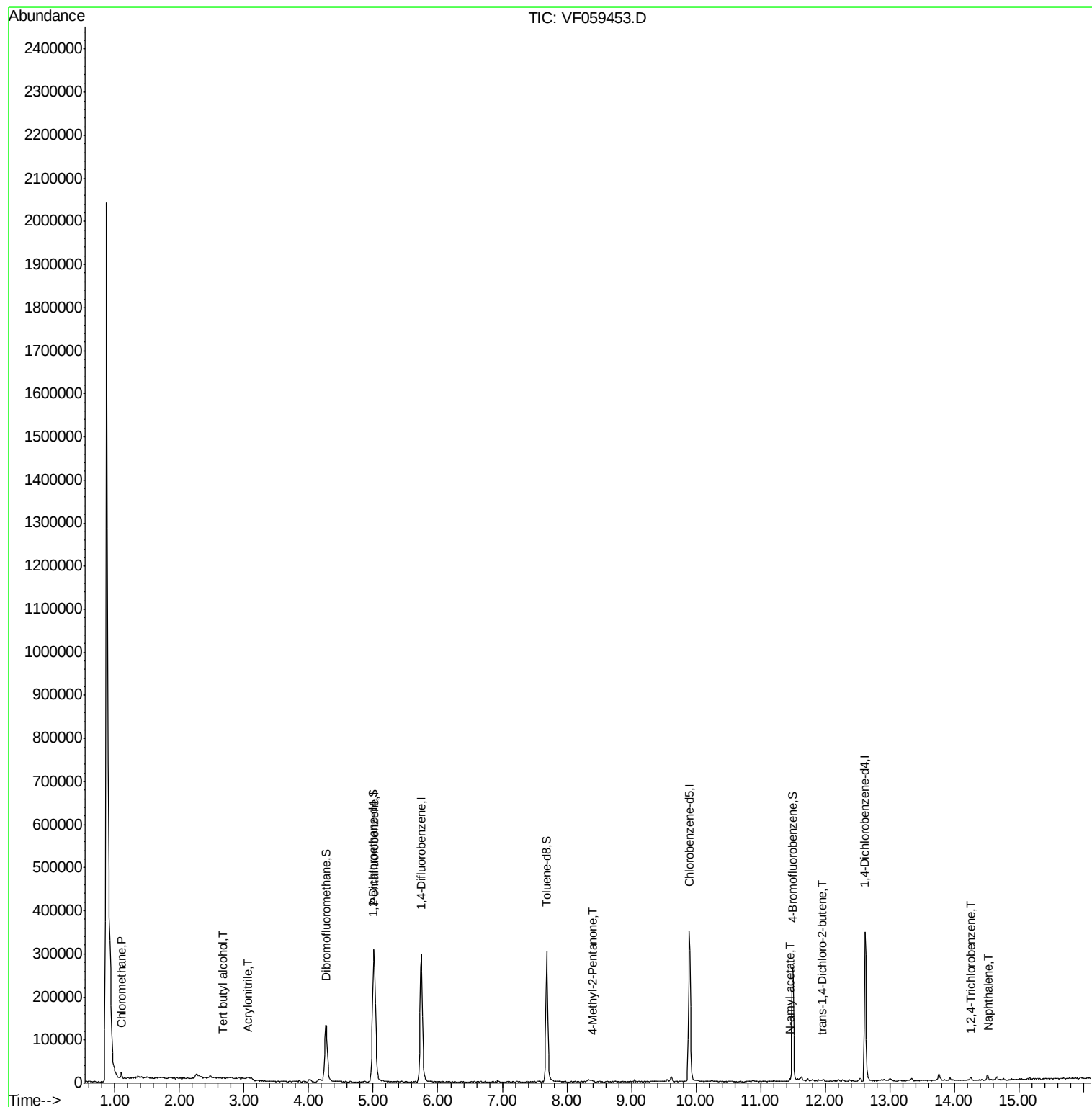
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.10	50	1424	1.099	ug/l #	64
5) Bromomethane	1.32	94	211	Below Cal	#	68
11) Tert butyl alcohol	2.68	59	726	3.997	ug/l #	66
13) Acrolein	2.07	56	431	Below Cal		97
15) Acrylonitrile	3.06	53	445	1.391	ug/l #	75
16) Acetone	2.37	43	550	Below Cal		95
18) Methyl Acetate	2.37	43	748	Below Cal		97
20) Methylene Chloride	2.26	84	6629	Below Cal		96
25) 2-Butanone	4.49	43	1249	Below Cal	#	59
28) Bromochloromethane	3.86	49	70	Below Cal	#	6
29) Tetrahydrofuran	4.25	42	416	Below Cal	#	49
37) Ethyl Acetate	4.27	43	697	Below Cal	#	26
49) 1,4-Dioxane	6.88	88	119	Below Cal	#	20
51) 4-Methyl-2-Pentanone	8.40	43	2913	1.724	ug/l #	81
59) 2-Hexanone	9.62	43	9385	Below Cal		90
74) N-amyl acetate	11.45	43	3946	2.174	ug/l #	89
81) trans-1,4-Dichloro-2-buten	11.94	75	1028	1.813	ug/l #	68
87) 1,3-Dichlorobenzene	12.55	146	1922	Below Cal		81
93) 1,2,4-Trichlorobenzene	14.26	180	2025	1.087	ug/l	86
95) Naphthalene	14.52	128	7533	1.933	ug/l #	86

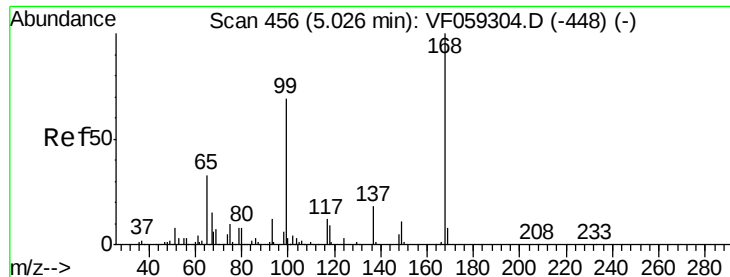
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.02 min Scan# 456

Delta R.T. -0.00 min

Lab File: VF059453.D

Acq: 6 Jul 2018 16:55

Instrument :

MSVOA_F

ClientSampleId :

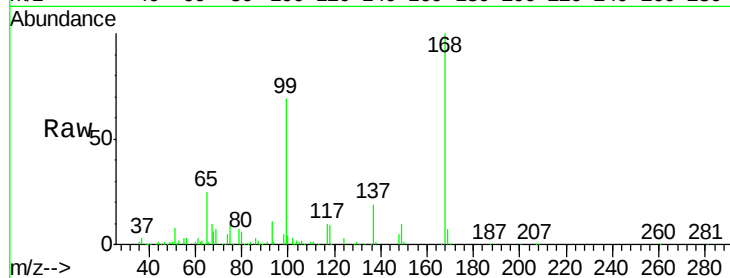
BU-03-070318

Tot Ion:168 Resp: 211195

Ion Ratio Lower Upper

168 100

99 69.5 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.02

80000

60000

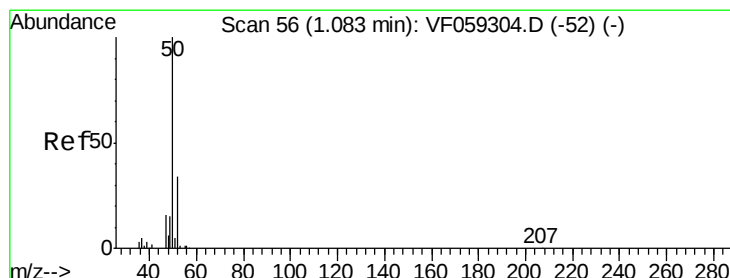
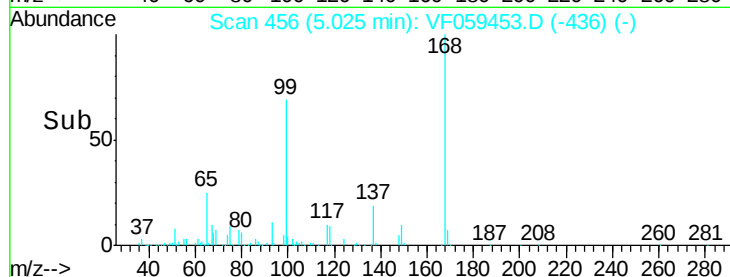
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#3

Chloromethane

Concen: 1.099 ug/l

RT: 1.10 min Scan# 58

Delta R.T. 0.02 min

Lab File: VF059453.D

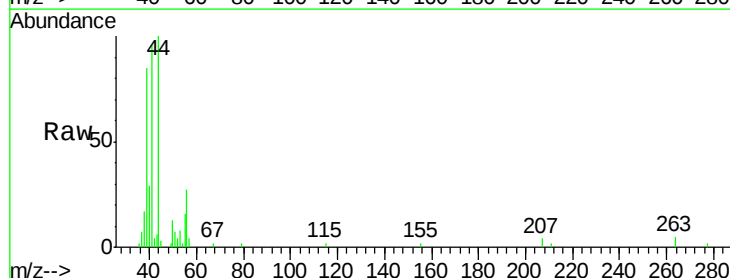
Acq: 6 Jul 2018 16:55

Tgt Ion: 50 Resp: 1424

Ion Ratio Lower Upper

50 100

52 53.9 26.7 40.1#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.10

800

600

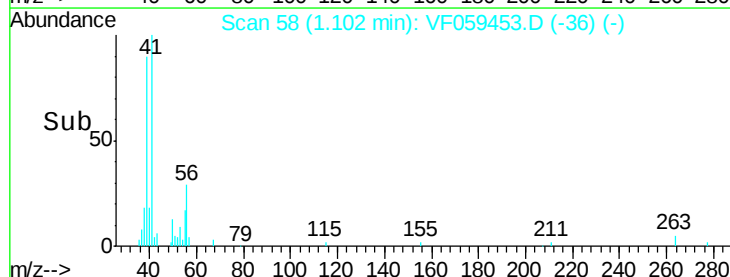
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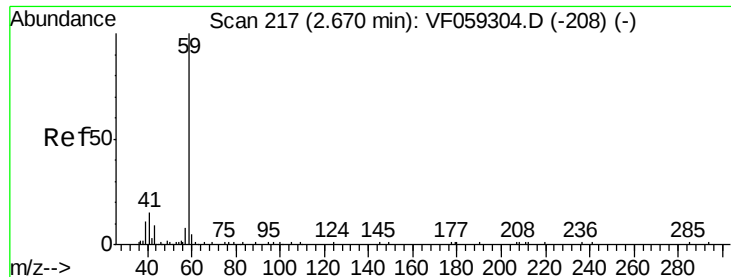
200

0

Time-->

1.00 1.05 1.10 1.15



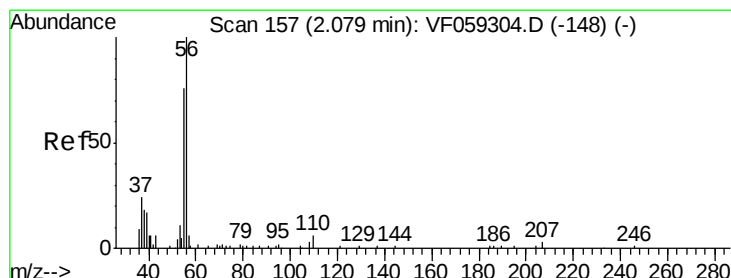
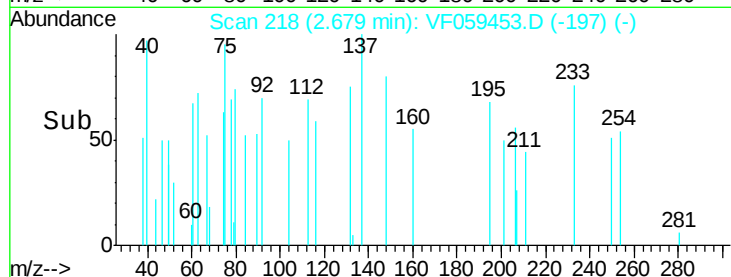
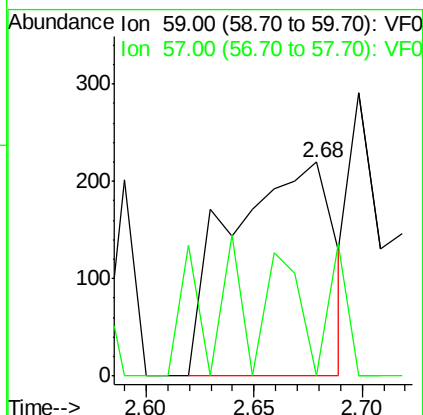
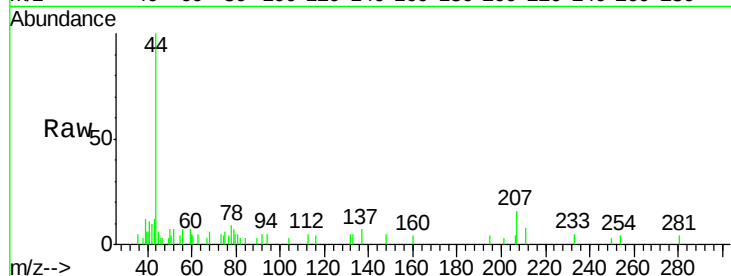


#11

Tert butyl alcohol
Concen: 3.997 ug/l
RT: 2.68 min Scan# 218
Delta R.T. 0.01 min
Lab File: VF059453.D
Acq: 6 Jul 2018 16:55

Instrument :
MSVOA_F
ClientSampleId :
BU-03-070318

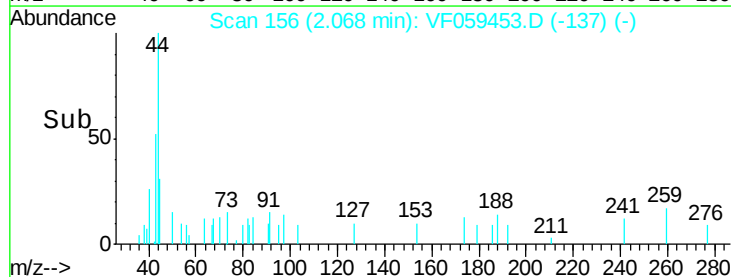
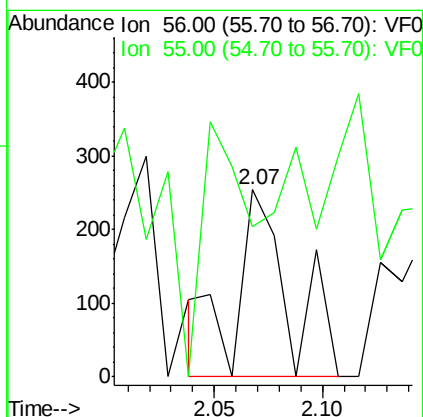
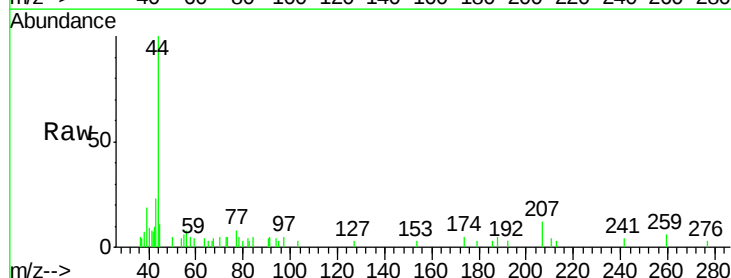
Tot Ion: 59 Resp: 726
Ion Ratio Lower Upper
59 100
57 0.0 11.0 16.4#

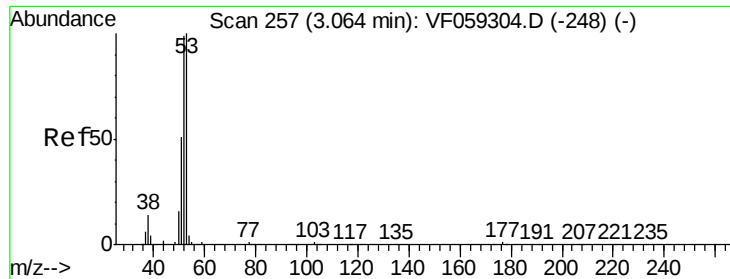


#13

Acrolein
Concen: Below Cal
RT: 2.07 min Scan# 156
Delta R.T. -0.01 min
Lab File: VF059453.D
Acq: 6 Jul 2018 16:55

Tgt Ion: 56 Resp: 431
Ion Ratio Lower Upper
56 100
55 80.3 62.4 93.6





#15

Acrylonitrile

Concen: 1.391 ug/l

RT: 3.06 min Scan# 257

Delta R.T. -0.00 min

Lab File: VF059453.D

Acq: 6 Jul 2018 16:55

Instrument :

MSVOA_F

ClientSampleId :

BU-03-070318

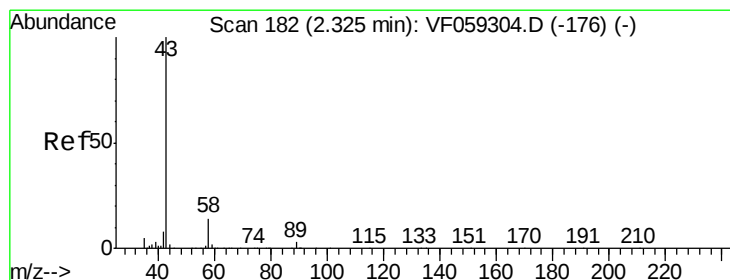
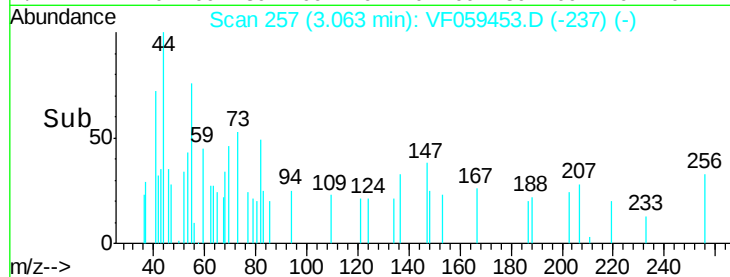
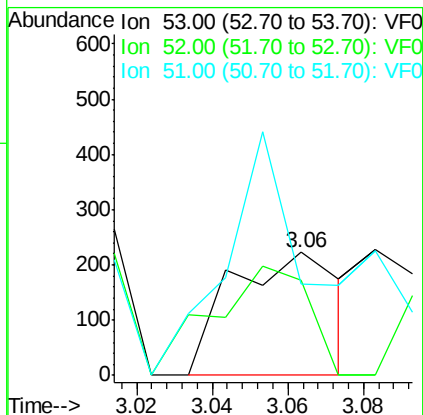
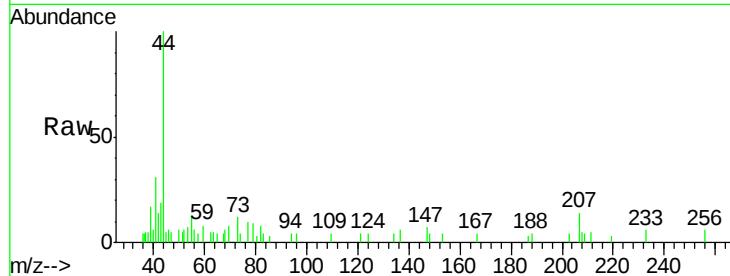
Tot Ion: 53 Resp: 445

Ion Ratio Lower Upper

53 100

52 77.6 79.2 118.8#

51 74.0 40.9 61.3#



#16

Acetone

Concen: Below Cal

RT: 2.37 min Scan# 187

Delta R.T. 0.05 min

Lab File: VF059453.D

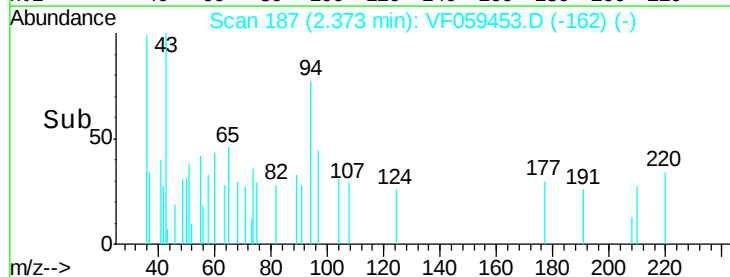
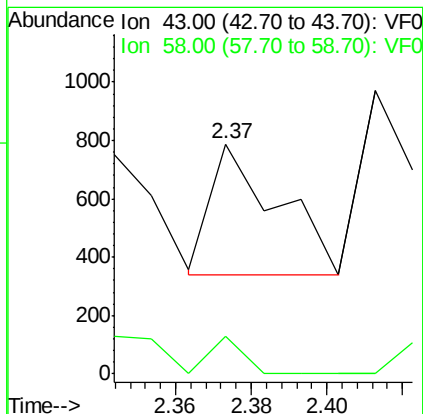
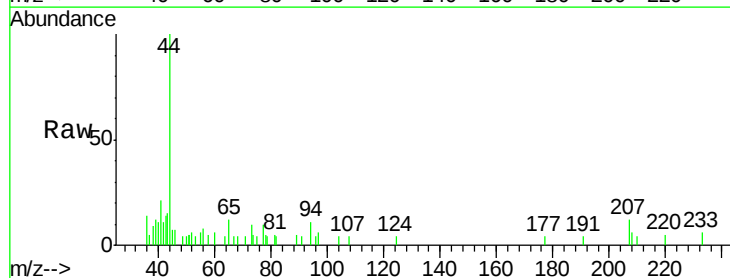
Acq: 6 Jul 2018 16:55

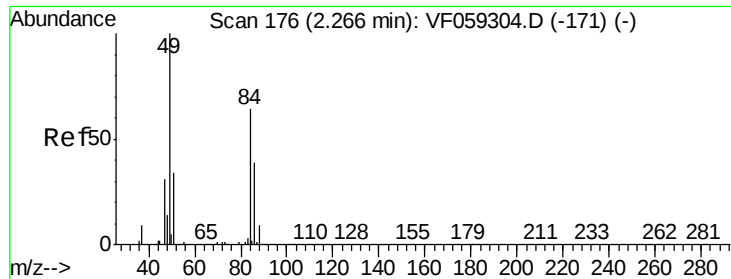
Tgt Ion: 43 Resp: 550

Ion Ratio Lower Upper

43 100

58 16.1 11.4 17.0

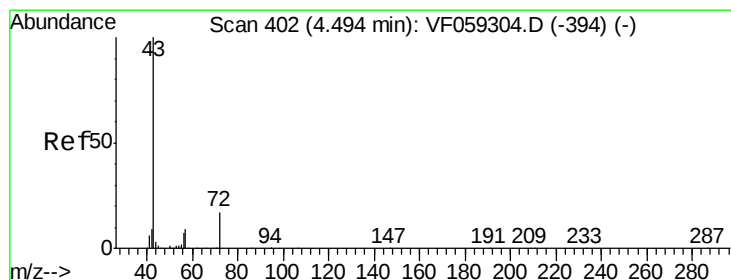
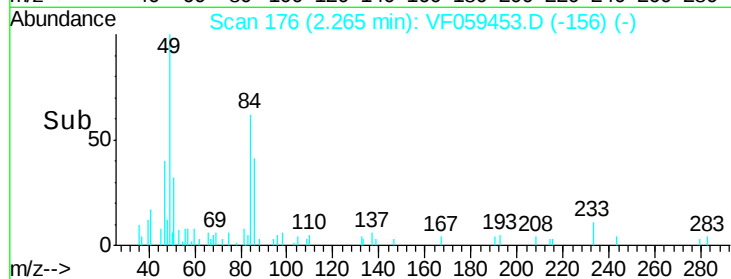
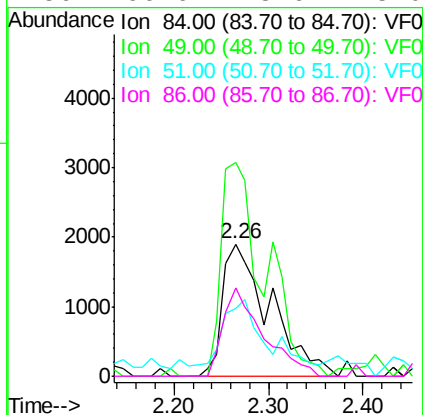
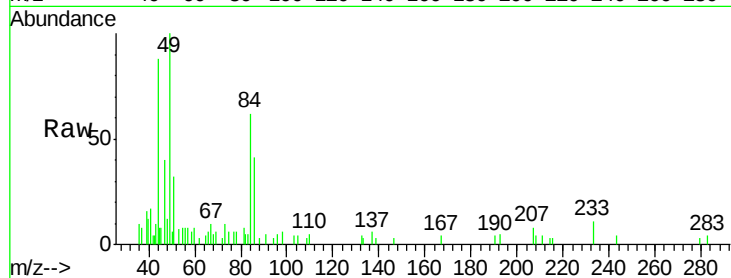




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.26 min Scan# 176
Delta R.T. -0.00 min
Lab File: VF059453.D
Acq: 6 Jul 2018 16:55

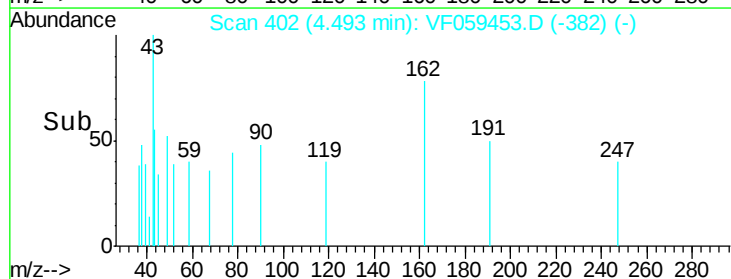
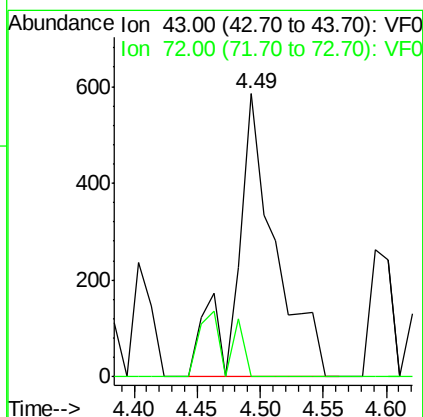
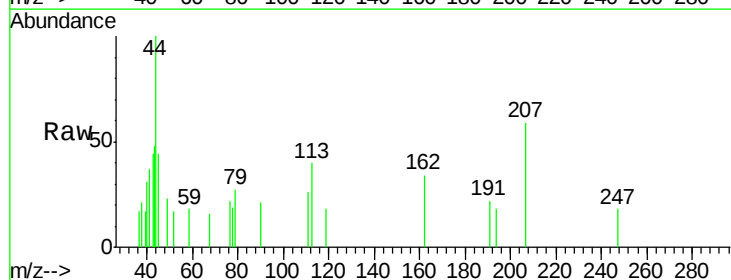
Instrument :
MSVOA_F
ClientSampleId :
BU-03-070318

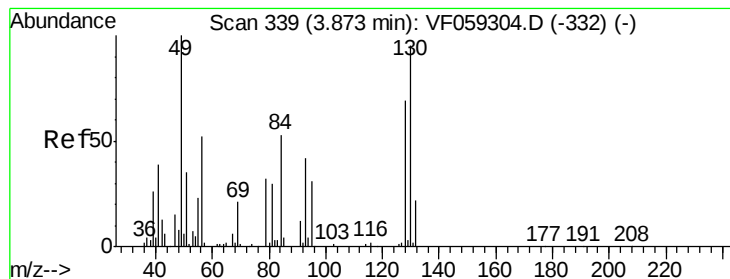
Tot Ion: 84 Resp: 6629
Ion Ratio Lower Upper
84 100
49 161.4 126.5 189.7
51 51.3 42.9 64.3
86 66.6 48.6 73.0



#25
2-Butanone
Concen: Below Cal
RT: 4.49 min Scan# 402
Delta R.T. -0.00 min
Lab File: VF059453.D
Acq: 6 Jul 2018 16:55

Tgt Ion: 43 Resp: 1249
Ion Ratio Lower Upper
43 100
72 0.0 14.4 21.6#





#28

Bromochloromethane

Concen: Below Cal

RT: 3.86 min Scan# 338

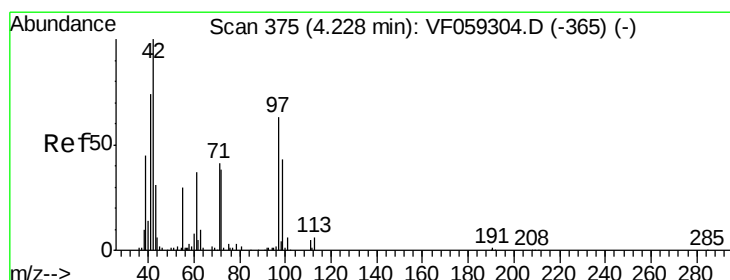
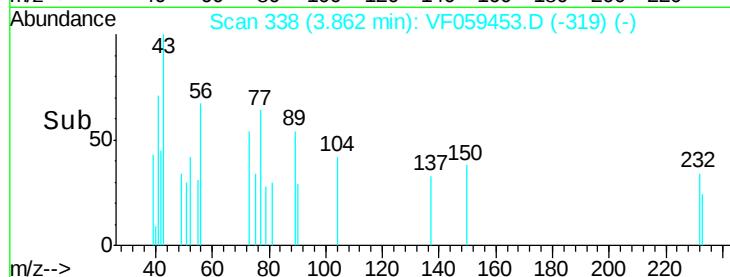
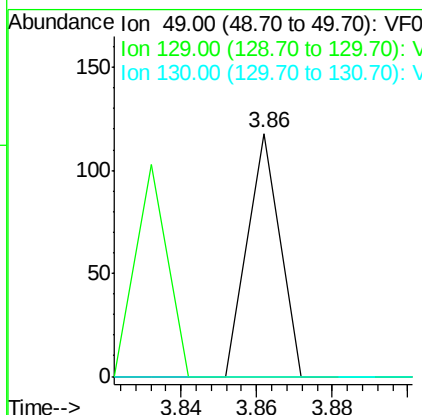
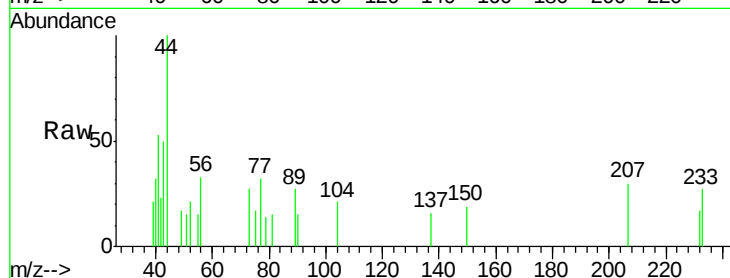
Delta R.T. -0.01 min

Lab File: VF059453.D

Acq: 6 Jul 2018 16:55

Instrument :
MSVOA_F
ClientSampleId :
BU-03-070318

Tot Ion:	49	Resp:	70
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	6.4
130	0.0	75.1	112.7#



#29

Tetrahydrofuran

Concen: Below Cal

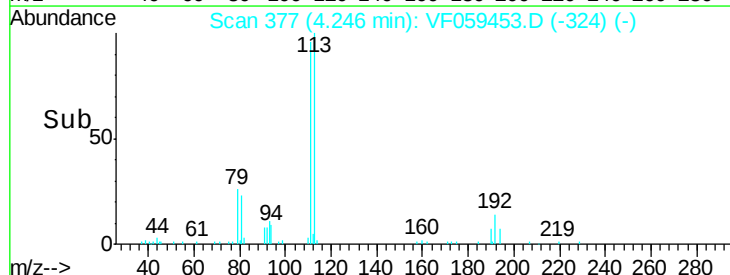
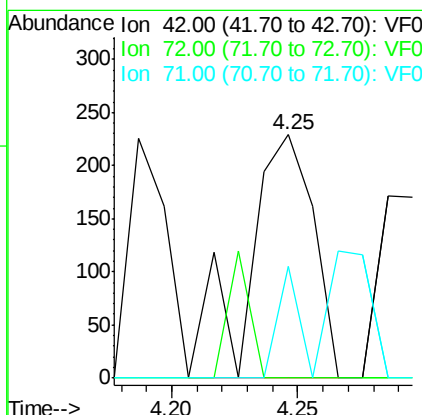
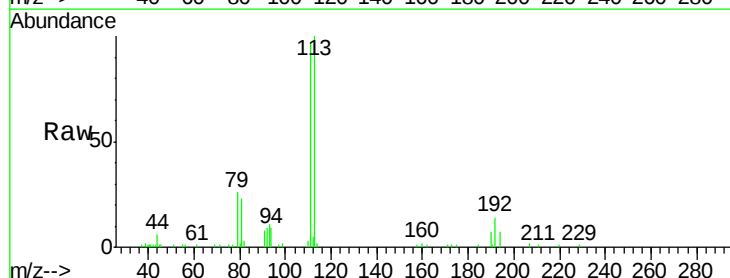
RT: 4.25 min Scan# 377

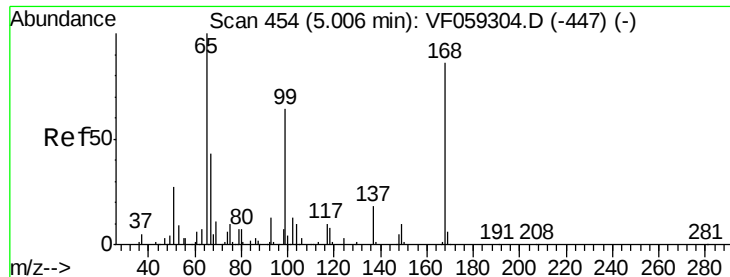
Delta R.T. 0.02 min

Lab File: VF059453.D

Acq: 6 Jul 2018 16:55

Tgt Ion:	42	Resp:	416
Ion	Ratio	Lower	Upper
42	100		
72	17.1	30.5	45.7#
71	0.0	32.5	48.7#





#33

1,2-Dichloroethane-d4

Concen: 45.218 ug/l

RT: 5.00 min Scan# 453

Delta R.T. -0.01 min

Lab File: VF059453.D

Acq: 6 Jul 2018 16:55

Instrument :

MSVOA_F

ClientSampleId :

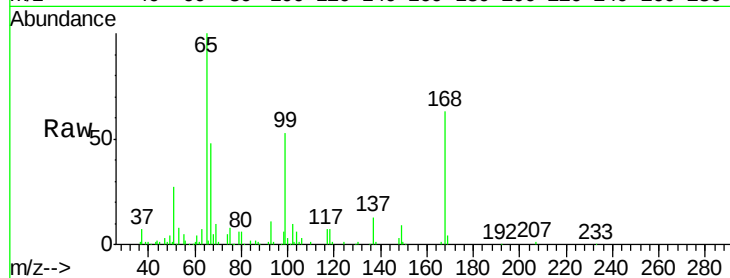
BU-03-070318

Tot Ion: 65 Resp: 123382

Ion Ratio Lower Upper

65 100

67 47.5 0.0 96.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

5.00

40000

30000

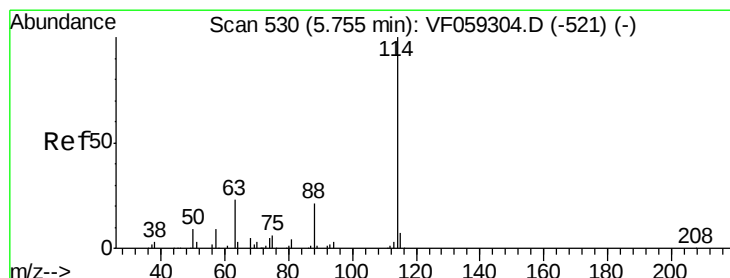
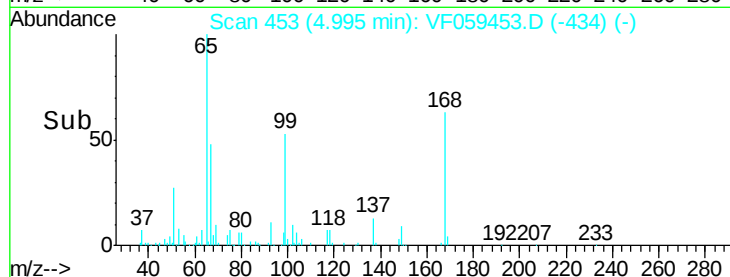
20000

10000

0

4.90 5.00 5.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.74 min Scan# 529

Delta R.T. -0.01 min

Lab File: VF059453.D

Acq: 6 Jul 2018 16:55

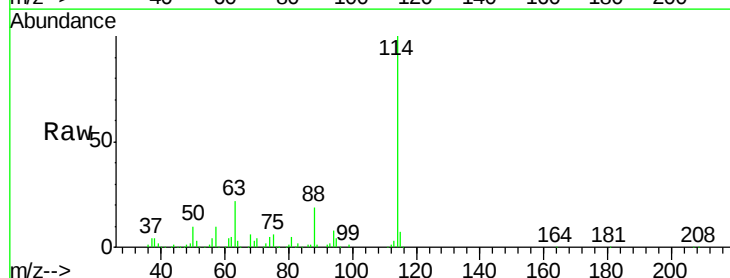
Tgt Ion:114 Resp: 313520

Ion Ratio Lower Upper

114 100

63 21.8 0.0 45.8

88 19.2 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

150000

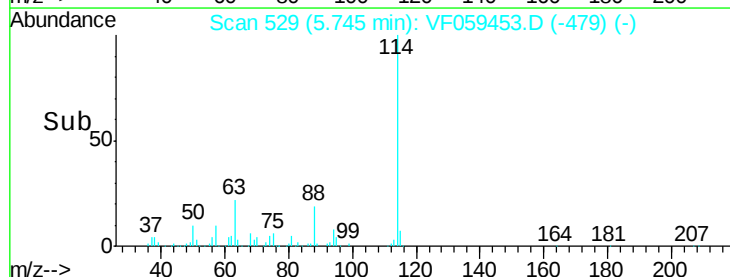
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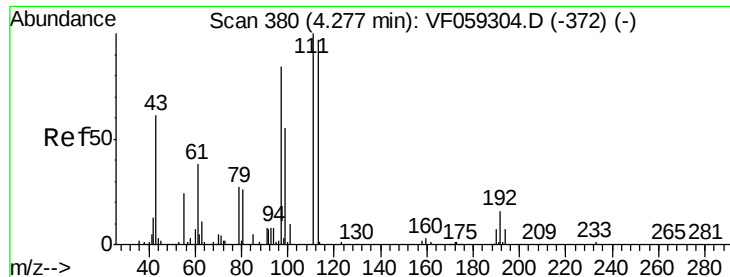
50000

0

5.60 5.70 5.80 5.90

Time-->

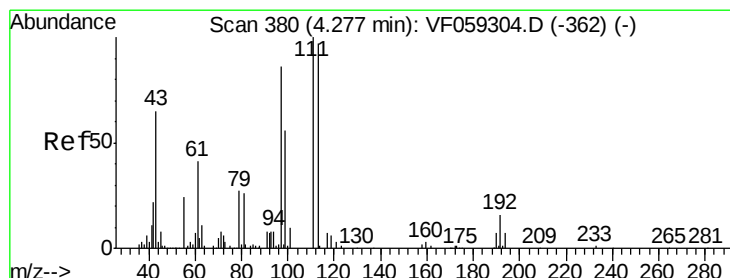
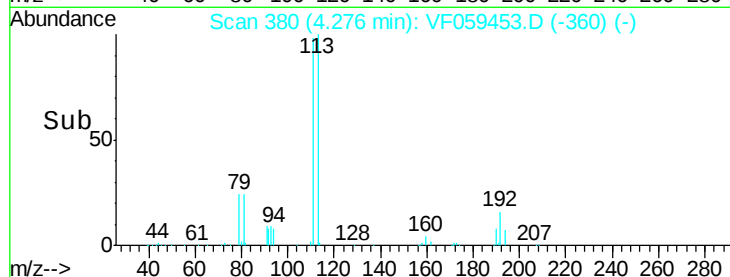
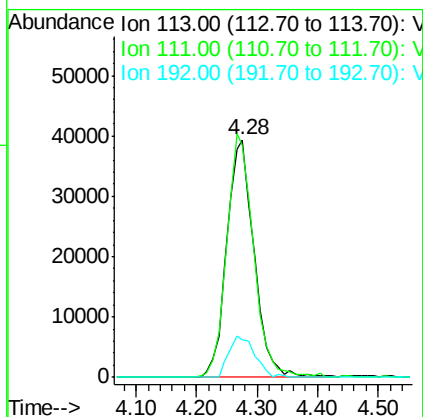
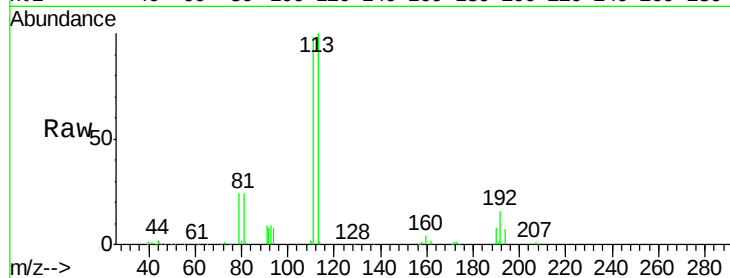




#35
Dibromofluoromethane
Concen: 53.949 ug/l
RT: 4.28 min Scan# 380
Delta R.T. -0.00 min
Lab File: VF059453.D
Acq: 6 Jul 2018 16:55

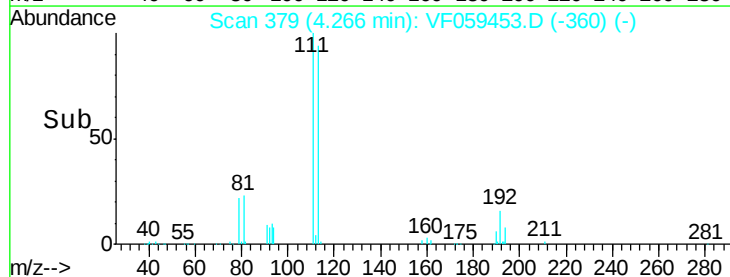
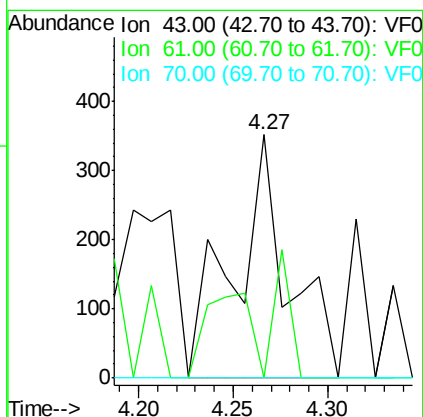
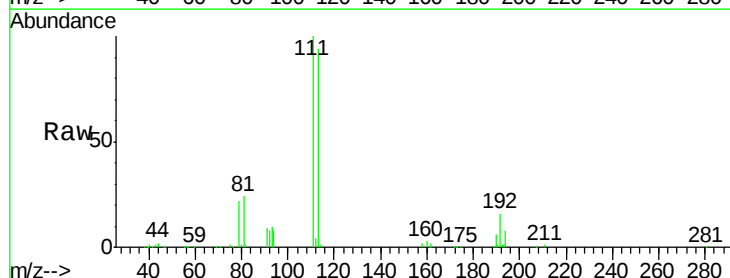
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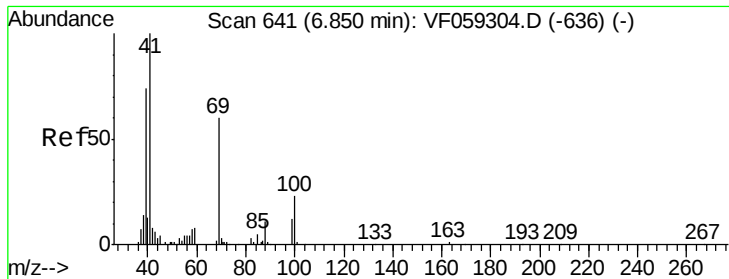
Tot Ion:113 Resp: 123586
Ion Ratio Lower Upper
113 100
111 97.8 82.1 123.1
192 15.7 13.0 19.6



#37
Ethyl Acetate
Concen: Below Cal
RT: 4.27 min Scan# 379
Delta R.T. -0.01 min
Lab File: VF059453.D
Acq: 6 Jul 2018 16:55

Tgt Ion: 43 Resp: 697
Ion Ratio Lower Upper
43 100
61 0.0 50.1 75.1#
70 0.0 6.2 9.4#





#49

1,4-Dioxane

Concen: Below Cal

RT: 6.88 min Scan# 644

Delta R.T. 0.03 min

Lab File: VF059453.D

Acq: 6 Jul 2018 16:55

Instrument :

MSVOA_F

ClientSampleId :

BU-03-070318

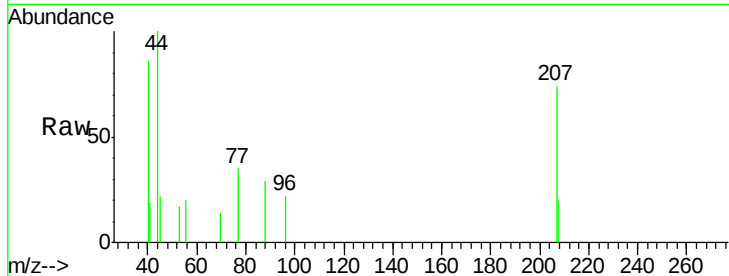
Tot Ion: 88 Resp: 119

Ion Ratio Lower Upper

88 100

43 0.0 50.6 75.8#

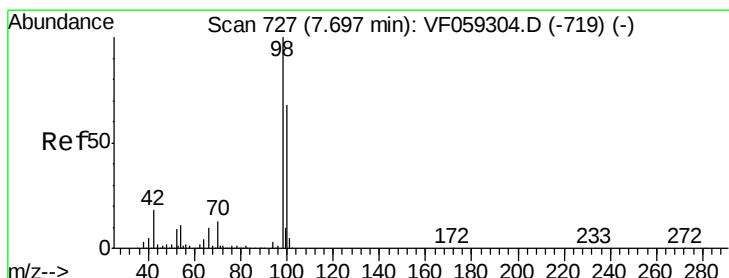
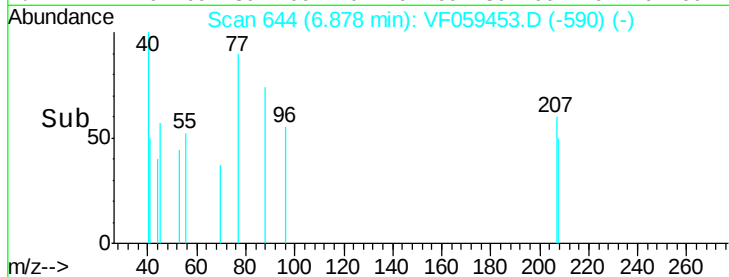
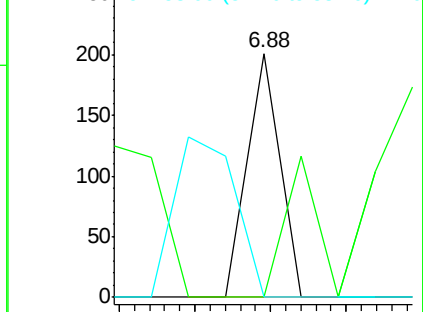
58 0.0 46.6 69.8#



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: 41.681 ug/l

RT: 7.69 min Scan# 726

Delta R.T. -0.01 min

Lab File: VF059453.D

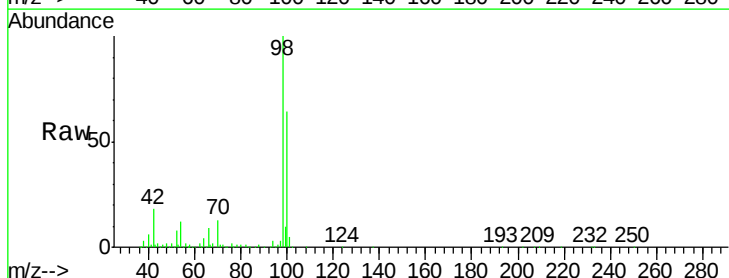
Acq: 6 Jul 2018 16:55

Tgt Ion: 98 Resp: 236405

Ion Ratio Lower Upper

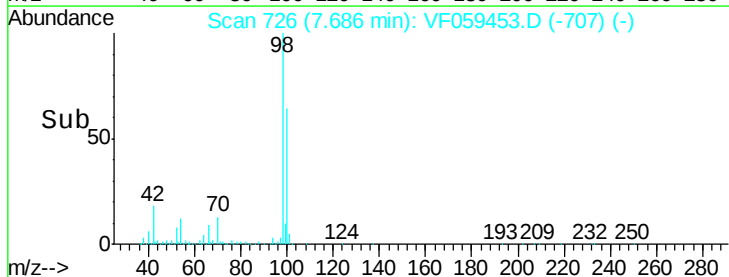
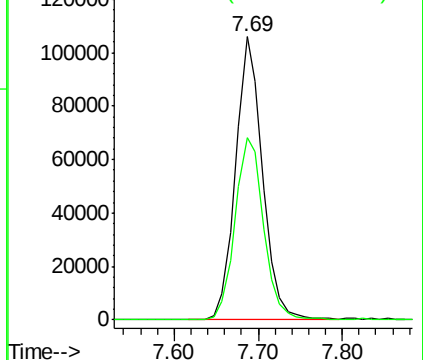
98 100

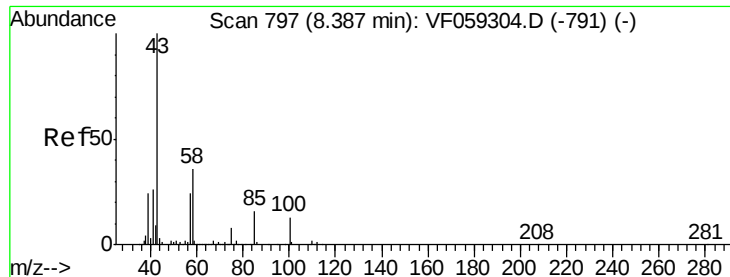
100 64.4 54.6 82.0



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: 1.724 ug/l

RT: 8.40 min Scan# 798

Delta R.T. 0.01 min

Lab File: VF059453.D

Acq: 6 Jul 2018 16:55

Instrument :

MSVOA_F

ClientSampleId :

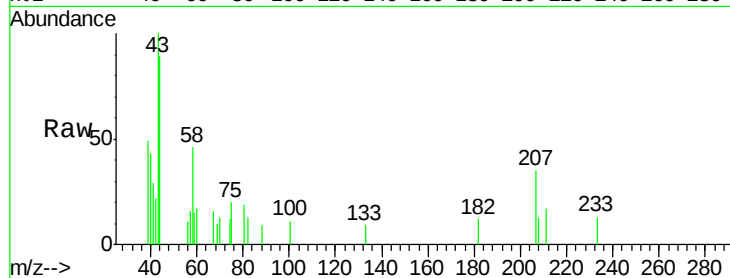
BU-03-070318

Tot Ion: 43 Resp: 2913

Ion Ratio Lower Upper

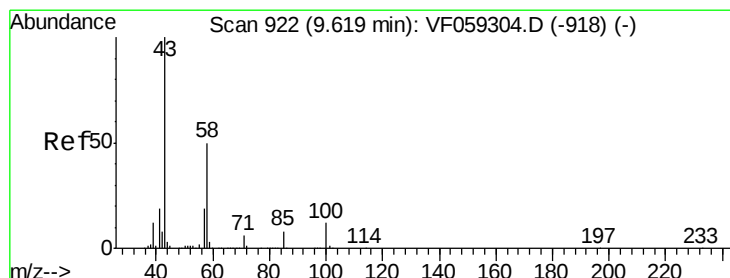
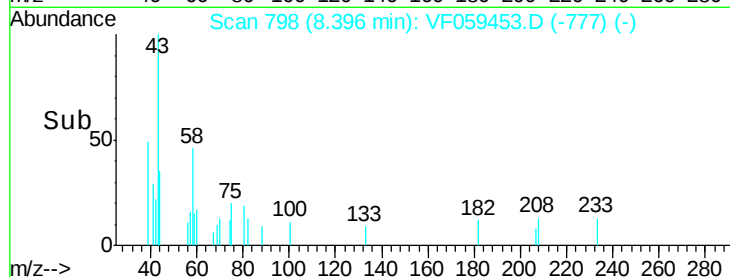
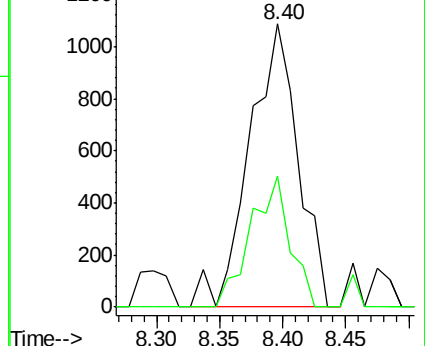
43 100

58 46.5 28.4 42.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#59

2-Hexanone

Concen: Below Cal

RT: 9.62 min Scan# 922

Delta R.T. -0.00 min

Lab File: VF059453.D

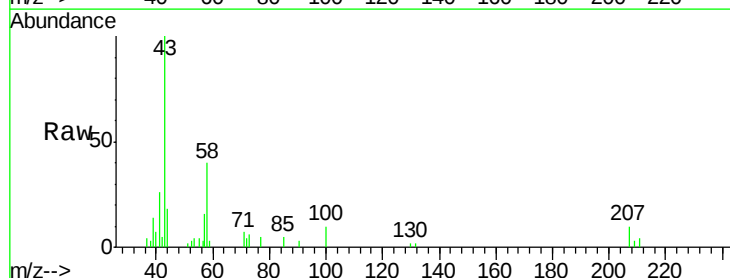
Acq: 6 Jul 2018 16:55

Tgt Ion: 43 Resp: 9385

Ion Ratio Lower Upper

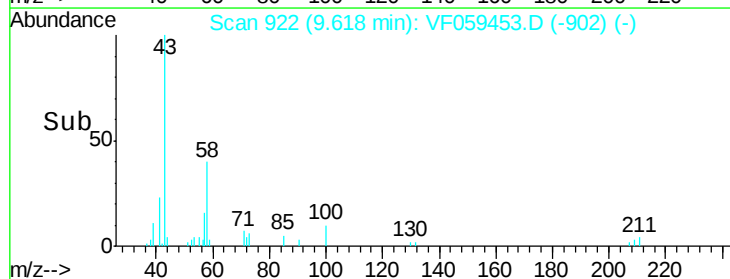
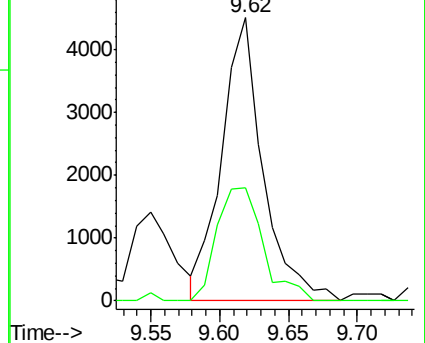
43 100

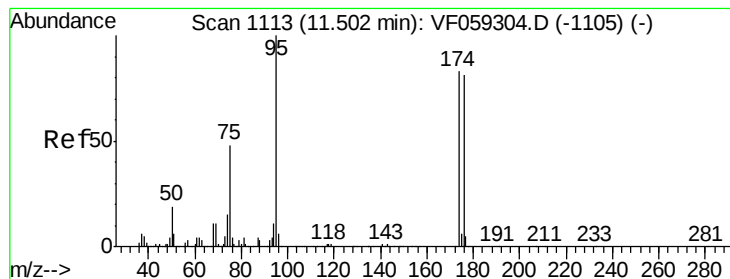
58 40.0 23.3 69.9



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 30.417 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF059453.D

Acq: 6 Jul 2018 16:55

Instrument :

MSVOA_F

ClientSampleId :

BU-03-070318

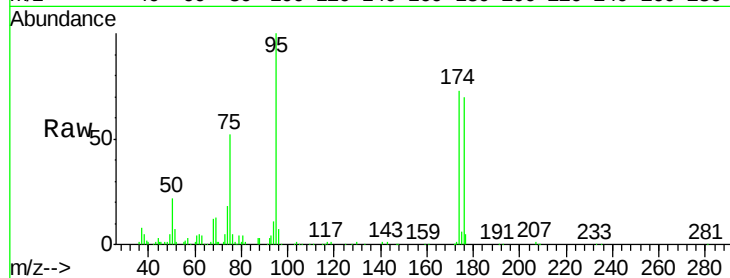
Tot Ion: 95 Resp: 97317

Ion Ratio Lower Upper

95 100

174 73.4 0.0 165.2

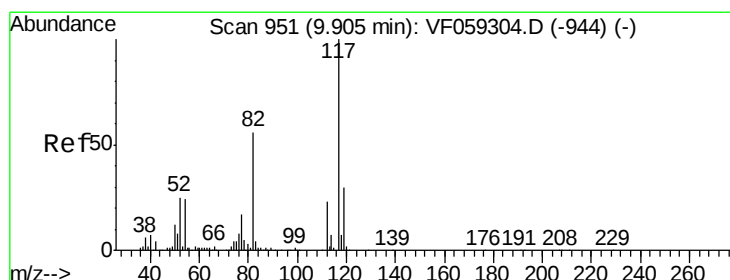
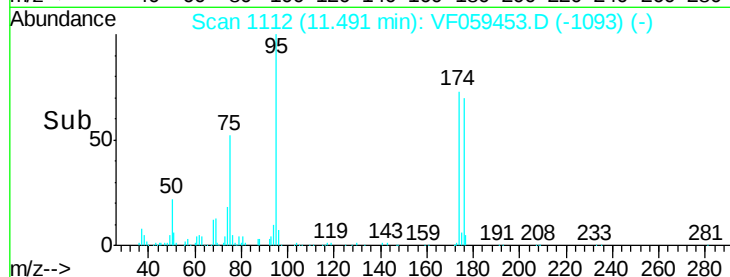
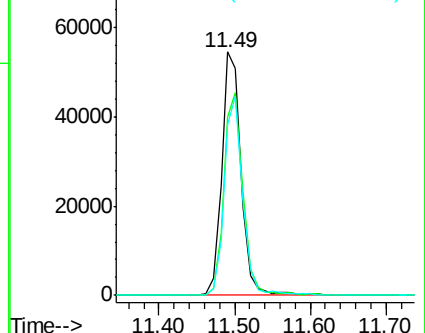
176 69.9 0.0 161.0



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.89 min Scan# 950

Delta R.T. -0.01 min

Lab File: VF059453.D

Acq: 6 Jul 2018 16:55

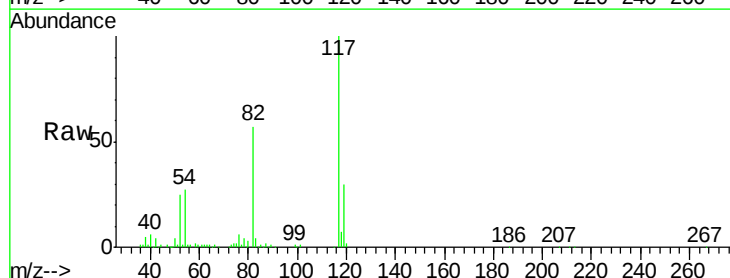
Tgt Ion: 117 Resp: 245632

Ion Ratio Lower Upper

117 100

82 56.5 44.6 66.8

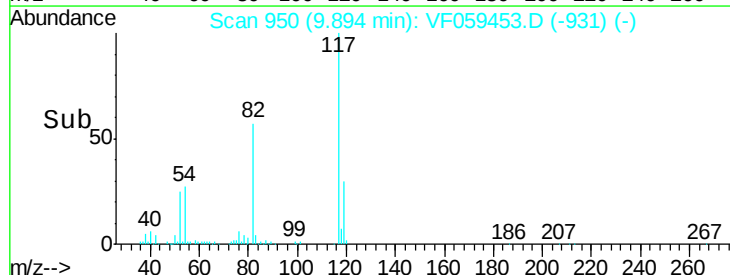
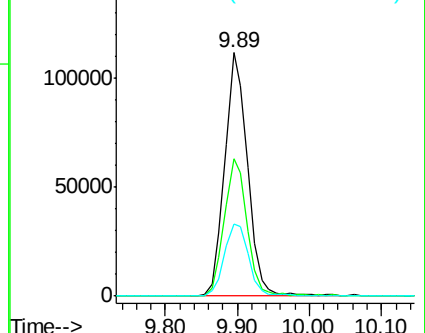
119 29.6 24.1 36.1

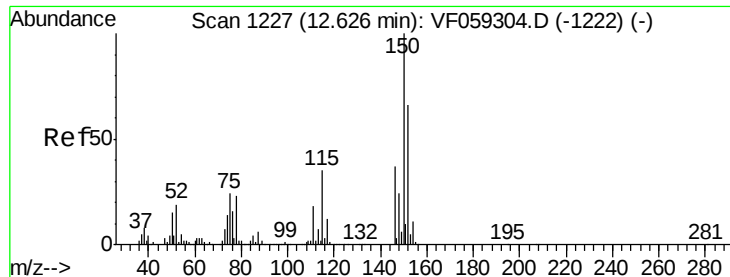


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0



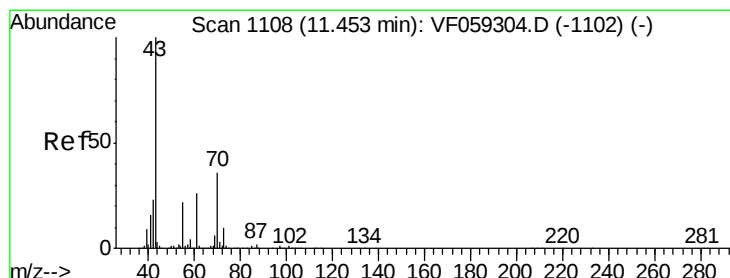
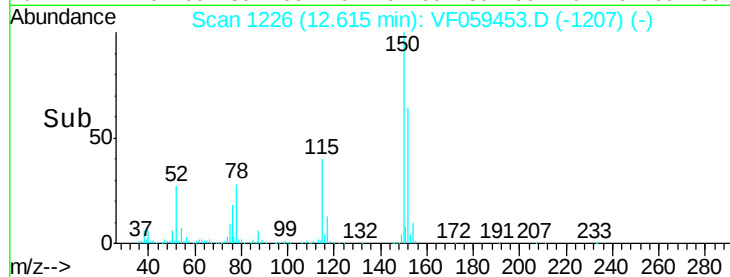
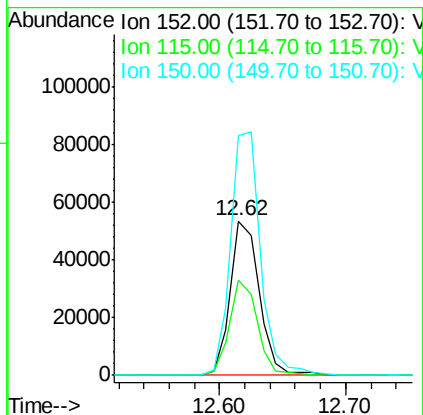
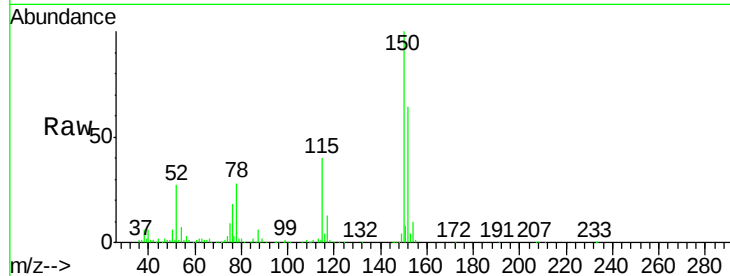


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1226
Delta R.T. -0.01 min
Lab File: VF059453.D
Acq: 6 Jul 2018 16:55

Instrument :
MSVOA_F
ClientSampleId :
BU-03-070318

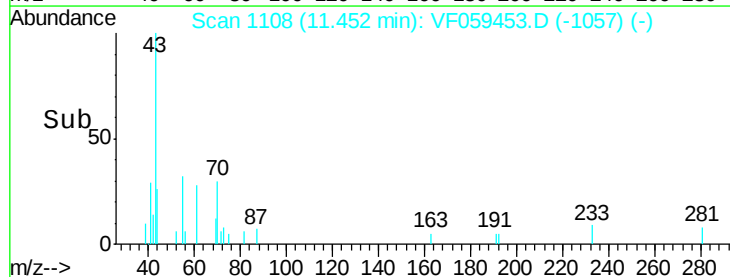
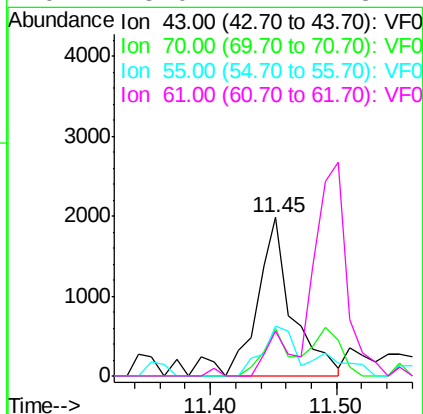
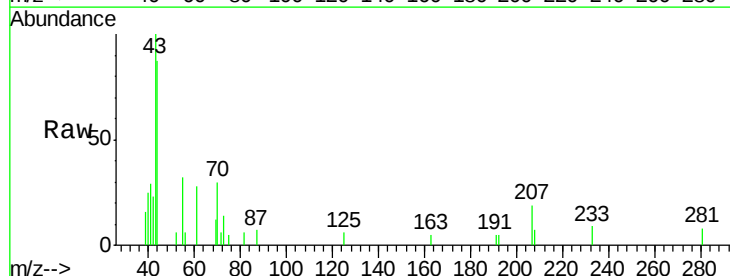
Tot Ion:152 Resp: 85843
Ion Ratio Lower Upper
152 100
115 61.3 27.1 81.3
150 155.2 0.0 305.2

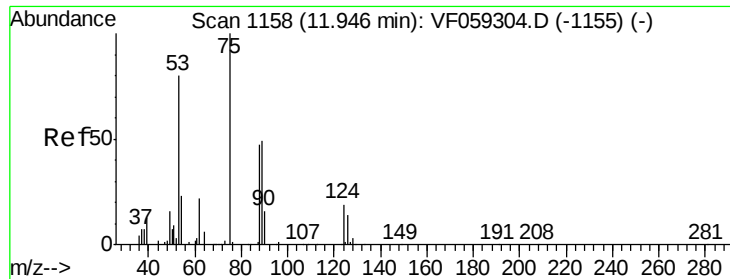


#74

N-amil acetate
Concen: 2.174 ug/l
RT: 11.45 min Scan# 1108
Delta R.T. -0.00 min
Lab File: VF059453.D
Acq: 6 Jul 2018 16:55

Tgt Ion: 43 Resp: 3946
Ion Ratio Lower Upper
43 100
70 29.6 28.8 43.2
55 31.8 17.4 26.0#
61 28.0 21.1 31.7

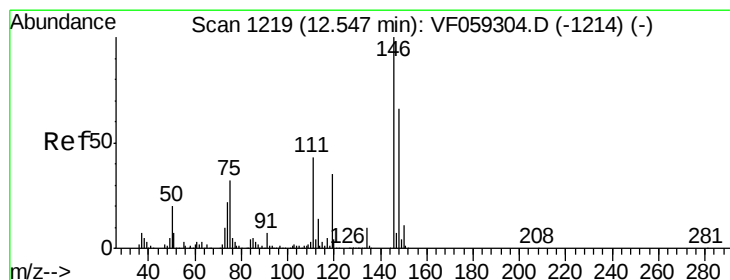
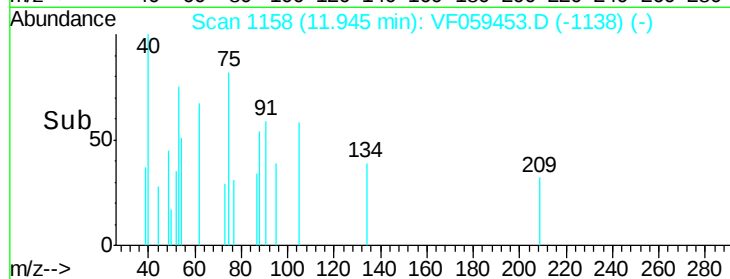
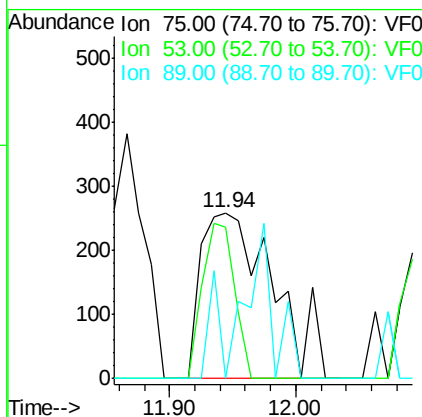
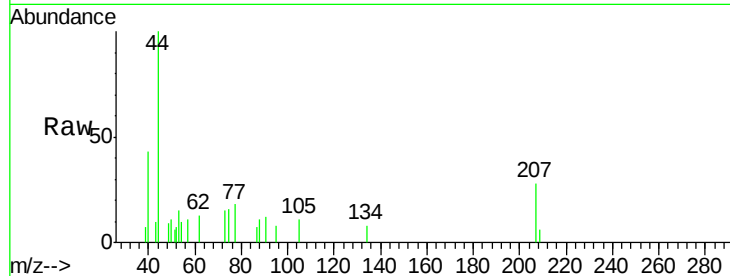




#81
trans-1,4-Dichloro-2-butene
Concen: 1.813 ug/l
RT: 11.94 min Scan# 1158
Delta R.T. -0.00 min
Lab File: VF059453.D
Acq: 6 Jul 2018 16:55

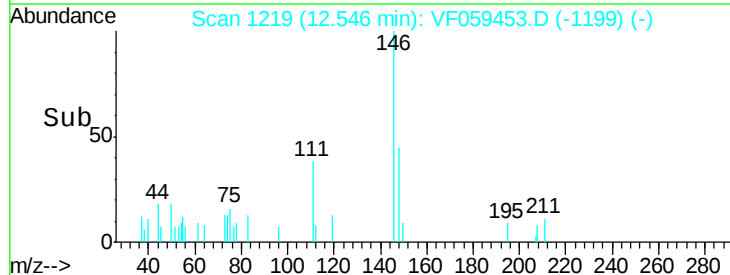
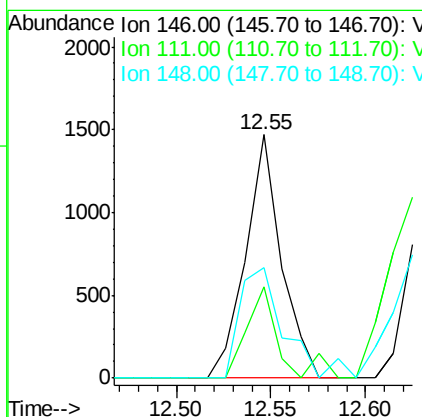
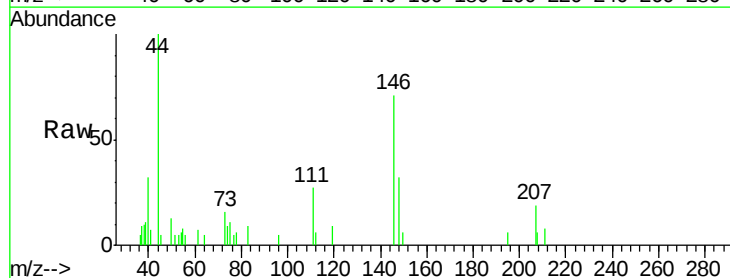
Instrument :
MSVOA_F
ClientSampleId :
BU-03-070318

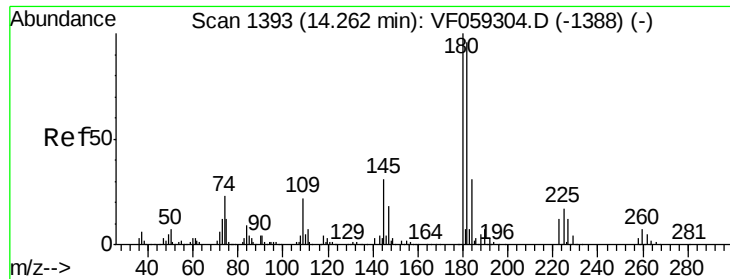
Tot Ion: 75 Resp: 1028
Ion Ratio Lower Upper
75 100
53 91.5 68.8 103.2
89 0.0 42.0 63.0#



#87
1,3-Dichlorobenzene
Concen: Below Cal
RT: 12.55 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VF059453.D
Acq: 6 Jul 2018 16:55

Tgt Ion: 146 Resp: 1922
Ion Ratio Lower Upper
146 100
111 37.7 21.4 64.2
148 45.4 32.8 98.4

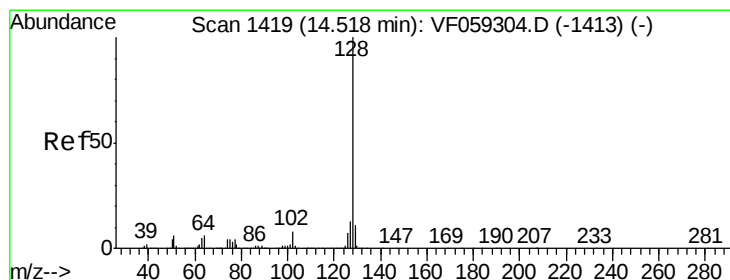
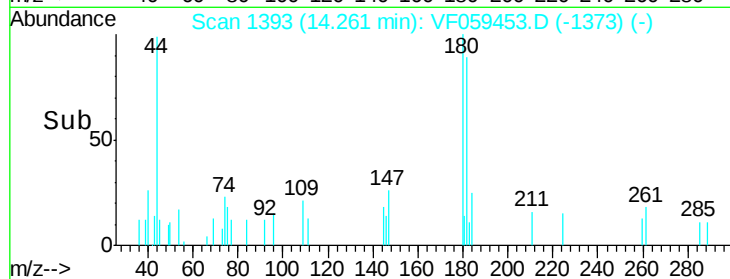
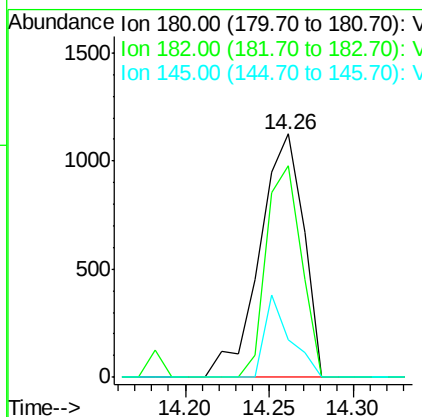
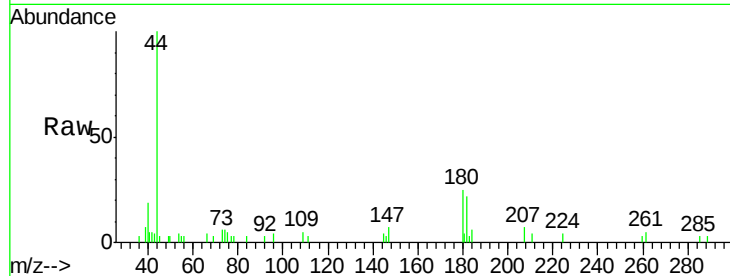




#93
 1,2,4-Trichlorobenzene
 Concen: 1.087 ug/l
 RT: 14.26 min Scan# 1393
 Delta R.T. -0.00 min
 Lab File: VF059453.D
 Acq: 6 Jul 2018 16:55

Instrument :
 MSVOA_F
 ClientSampleId :
 BU-03-070318

Tot Ion	Ratio	Lower	Upper
180	100		
182	86.8	48.1	144.3
145	15.4	15.3	45.8



#95
 Naphthalene
 Concen: 1.933 ug/l
 RT: 14.52 min Scan# 1419
 Delta R.T. -0.00 min
 Lab File: VF059453.D
 Acq: 6 Jul 2018 16:55

Tgt Ion	Ratio	Lower	Upper
128	100		
127	7.0	10.1	15.1#
129	16.2	8.8	13.2#

