

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031519\
 Data File : VF061967.D
 Acq On : 15 Mar 2019 18:08
 Operator : VA/AP
 Sample : K1928-10
 Misc : 6.57g/5mL/MSVOA-F/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SI-1(9-9.5)

Quant Time: Mar 15 23:18:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:50:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.91	168	191713	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	5.63	114	269593	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.81	117	280739	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.57	152	122856	50.00	ug/l	0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.88	65	57658	41.30	ug/l	0.03
Spiked Amount	50.000		Recovery	=	82.60%	
35) Dibromofluoromethane	4.14	113	89556	47.60	ug/l	0.02
Spiked Amount	50.000		Recovery	=	95.20%	
50) Toluene-d8	7.62	98	263107	47.05	ug/l	0.06
Spiked Amount	50.000		Recovery	=	94.10%	
62) 4-Bromofluorobenzene	11.44	95	212508	97.01	ug/l	0.02
Spiked Amount	50.000		Recovery	=	194.02%	

Target Compounds

						Qvalue
3) Chloromethane	1.11	50	322017	141.171	ug/l #	81
4) Vinyl Chloride	1.30	62	7742	3.575	ug/l #	62
6) Chloroethane	1.39	64	2897	2.815	ug/l #	1
11) Tert butyl alcohol	2.58	59	408	5.149	ug/l #	1
13) Acrolein	2.06	56	1578954	15724.946	ug/l #	1
14) Allyl chloride	2.06	41	8182254	4529.822	ug/l #	66
15) Acrylonitrile	3.02	53	717838	2844.807	ug/l #	39
16) Acetone	2.25	43	2431859	8315.433	ug/l #	87
18) Methyl Acetate	2.39	43	2310083	845.428	ug/l #	62
19) Methyl tert-butyl Ether	2.46	73	4966	1.790	ug/l #	1
20) Methylene Chloride	2.13	84	468752	316.648	ug/l #	28
24) 1,1-Dichloroethane	2.85	63	7912	2.817	ug/l #	89
25) 2-Butanone	4.47	43	607020	1020.420	ug/l #	62
26) 2,2-Dichloropropane	3.64	77	2653	2.116	ug/l	89
27) cis-1,2-Dichloroethene	3.53	96	29864	13.969	ug/l #	1
28) Bromochloromethane	3.80	49	51237	41.853	ug/l #	2
29) Tetrahydrofuran	3.79	42	3595800	14015.958	ug/l #	33
30) Chloroform	3.80	83	399170	124.435	ug/l #	1
31) Cyclohexane	3.79	56	10819027	3677.977	ug/l	95
37) Ethyl Acetate	4.04	43	821109	768.184	ug/l #	11
39) Methylcyclohexane	5.59	83	12957736	4307.874	ug/l	95
40) Benzene	4.68	78	11773741	1768.745	ug/l #	88
41) Methacrylonitrile	4.77	41	6661284	11374.429	ug/l #	46
42) 1,2-Dichloroethane	5.00	62	19683	11.865	ug/l #	1
43) Isopropyl Acetate	6.88	43	8708639	6609.517	ug/l #	42
45) 1,2-Dichloropropane	6.30	63	2551	1.612	ug/l #	1
46) Dibromomethane	6.10	93	9087	9.122	ug/l #	1
47) Bromodichloromethane	6.37	83	401593	182.471	ug/l #	30
48) Methyl methacrylate	6.66	41	3401588	4079.267	ug/l #	49
49) 1,4-Dioxane	6.52	88	81	10.626	ug/l #	1
51) 4-Methyl-2-Pentanone	8.33	43	1172052	1287.069	ug/l #	41
52) Toluene	7.78	92	26377745	6698.524	ug/l #	60
55) 1,1,2-Trichloroethane	8.47	97	622507	548.660	ug/l #	1
56) Ethyl methacrylate	8.78	69	256444	200.553	ug/l	91

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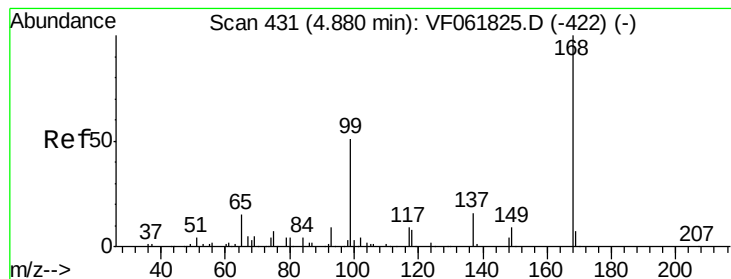
Instrument :
 MSVOA_F
 ClientSampleId :
 SI-1(9-9.5)

Quant Time: Mar 15 23:18:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

58) 2-Chloroethyl Vinyl ether	7.31	63	880	4.351	ug/l #	44
59) 2-Hexanone	9.59	43	122006	185.717	ug/l #	27
61) 1,2-Dibromoethane	9.02	107	49530	39.698	ug/l #	39
65) Chlorobenzene	9.82	112	25172	4.667	ug/l #	50
67) Ethyl Benzene	9.98	91	14685071	1642.680	ug/l #	65
68) m/p-Xylenes	10.26	106	15398846	4496.432	ug/l #	55
69) o-Xylene	10.78	106	7012629	1901.615	ug/l #	63
70) Styrene	10.78	104	356198	68.634	ug/l #	1
73) Isopropylbenzene	11.15	105	2142061	253.260	ug/l #	93
74) N-amyl acetate	11.42	43	111068	57.041	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	11.69	83	133549	95.002	ug/l #	1
76) 1,2,3-Trichloropropane	11.76	75	153846	160.352	ug/l #	1
78) n-propylbenzene	11.62	91	5421471	567.602	ug/l #	76
79) 2-Chlorotoluene	11.75	91	2007747	367.670	ug/l #	39
80) 1,3,5-Trimethylbenzene	11.86	105	5175785	762.186	ug/l #	83
81) trans-1,4-Dichloro-2-buten	11.86	75	69477	158.365	ug/l #	1
82) 4-Chlorotoluene	11.86	91	703508	125.952	ug/l #	41
83) tert-Butylbenzene	12.05	119	106119	14.717	ug/l #	1
84) 1,2,4-Trimethylbenzene	12.25	105	9495434	1426.391	ug/l #	75
85) sec-Butylbenzene	12.33	105	833985	88.878	ug/l #	70
86) p-Isopropyltoluene	12.45	119	1300702	163.074	ug/l #	98
89) n-Butylbenzene	12.87	91	1696775	222.596	ug/l #	80
90) Hexachloroethane	12.94	117	45962	23.940	ug/l #	24
92) 1,2-Dibromo-3-Chloropropan	13.62	75	5324	23.934	ug/l #	1
95) Naphthalene	14.47	128	2908872	636.156	ug/l #	92
96) 1,2,3-Trichlorobenzene	14.65	180	2686	1.133	ug/l #	1

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.91 min Scan# 434

Delta R.T. 0.03 min

Lab File: VF061967.D

Acq: 15 Mar 2019 18:08

Instrument :

MSVOA_F

ClientSampleId :

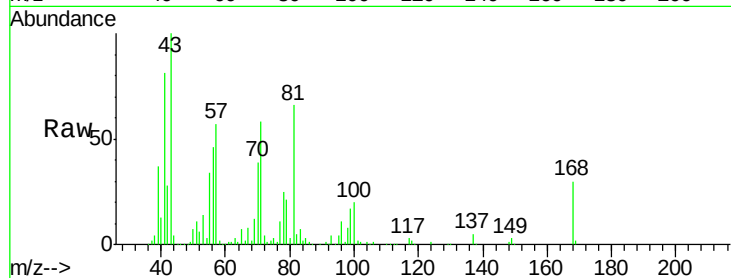
SI-1(9-9.5)

Tot Ion:168 Resp: 191713

Ion Ratio Lower Upper

168 100

99 54.9 40.8 61.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.91

60000

50000

40000

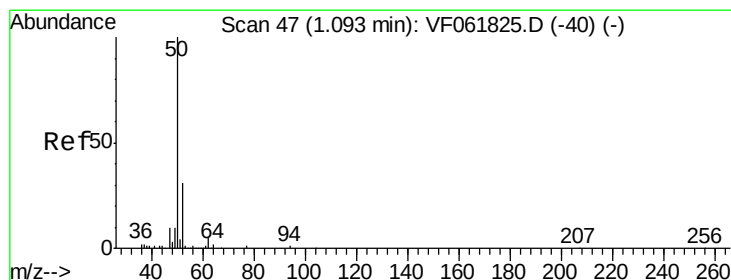
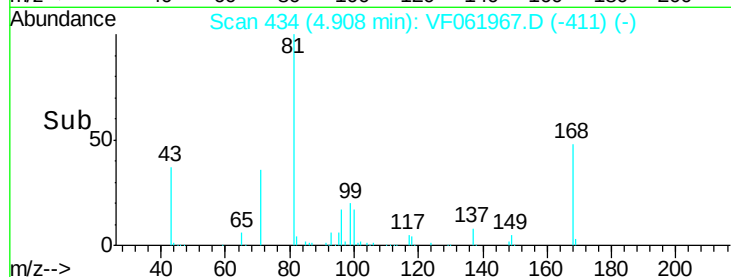
30000

20000

10000

0

Time-->



#3

Chloromethane

Concen: 141.171 ug/l

RT: 1.11 min Scan# 49

Delta R.T. 0.02 min

Lab File: VF061967.D

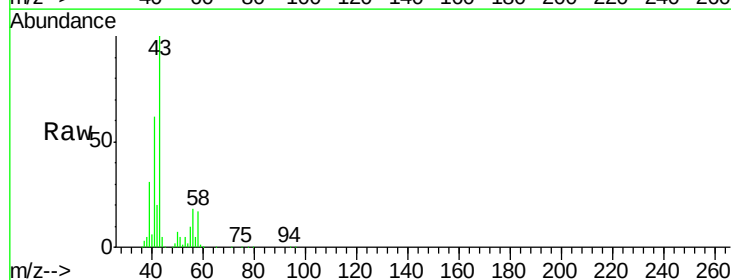
Acq: 15 Mar 2019 18:08

Tgt Ion: 50 Resp: 322017

Ion Ratio Lower Upper

50 100

52 19.3 23.8 35.8#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.11

120000

100000

80000

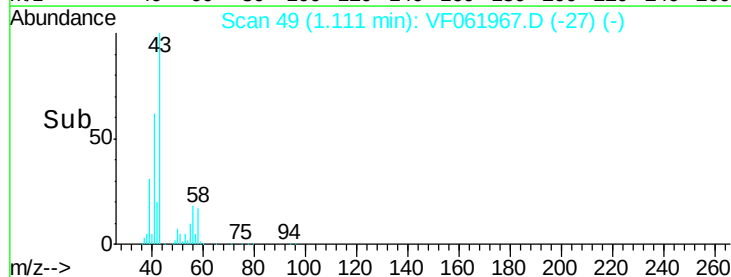
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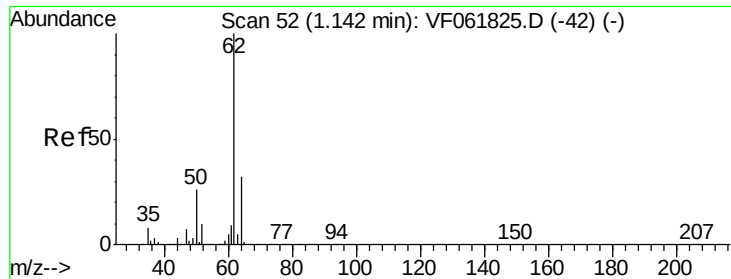
40000

20000

0

Time-->





#4

Vinyl Chloride

Concen: 3.575 ug/l

RT: 1.30 min Scan# 68

Delta R.T. 0.16 min

Lab File: VF061967.D

Acq: 15 Mar 2019 18:08

Instrument :

MSVOA_F

ClientSampleId :

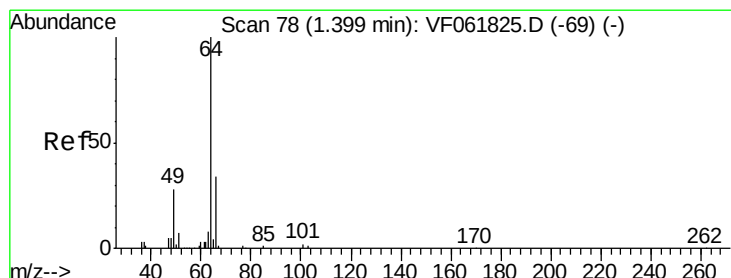
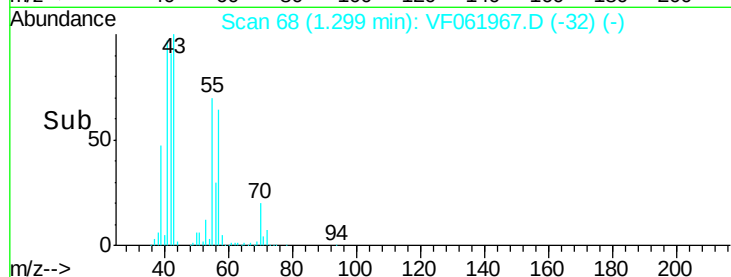
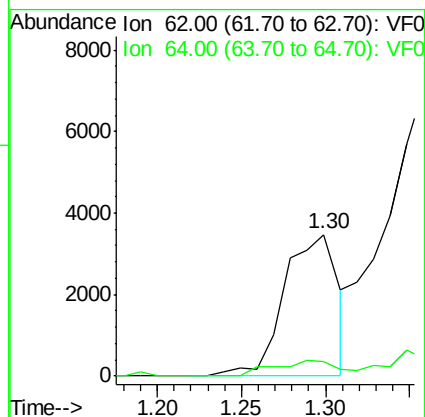
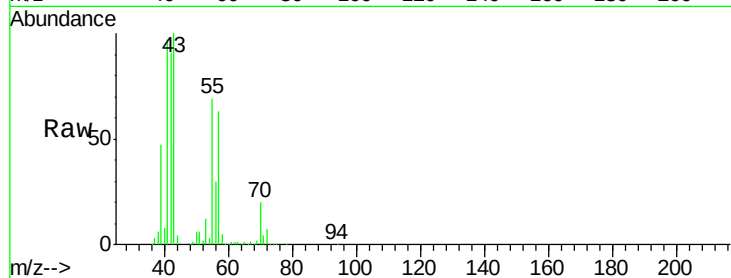
SI-1(9-9.5)

Tot Ion: 62 Resp: 7742

Ion Ratio Lower Upper

62 100

64 10.2 25.2 37.8#



#6

Chloroethane

Concen: 2.815 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.01 min

Lab File: VF061967.D

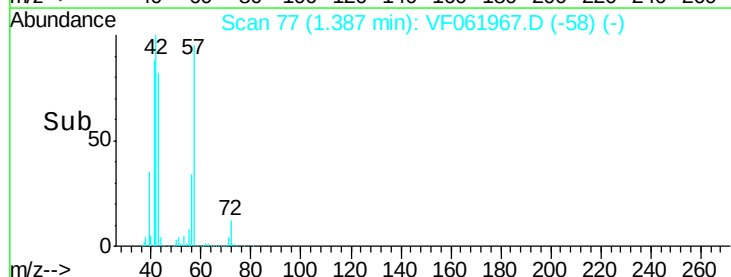
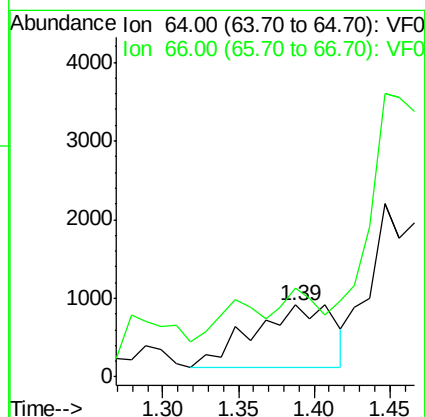
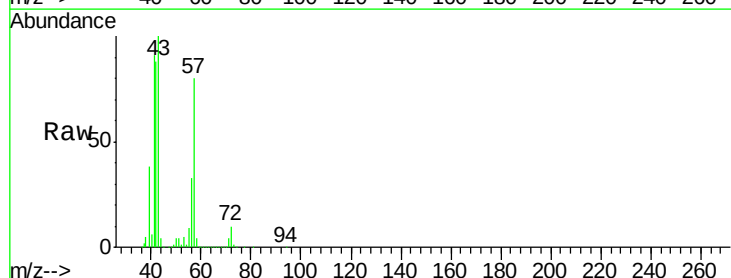
Acq: 15 Mar 2019 18:08

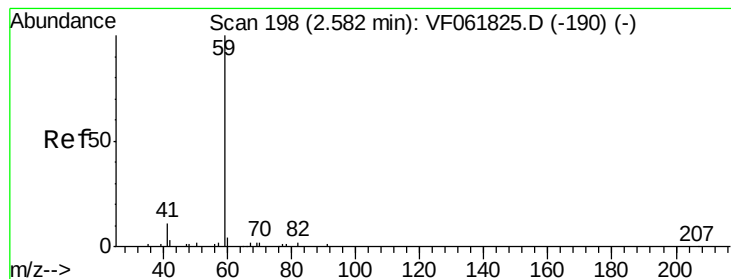
Tgt Ion: 64 Resp: 2897

Ion Ratio Lower Upper

64 100

66 122.4 27.0 40.4#



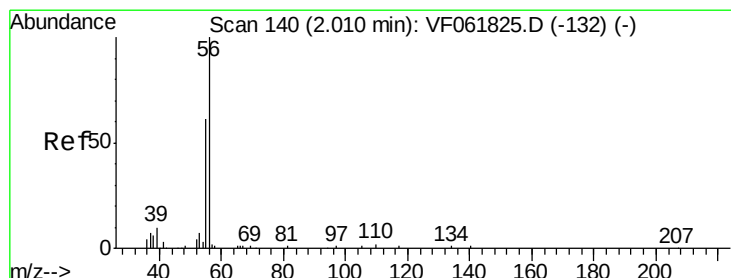
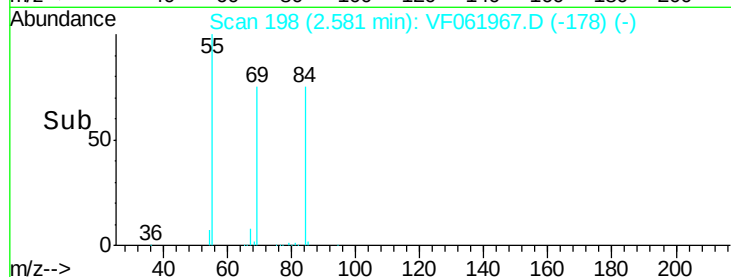
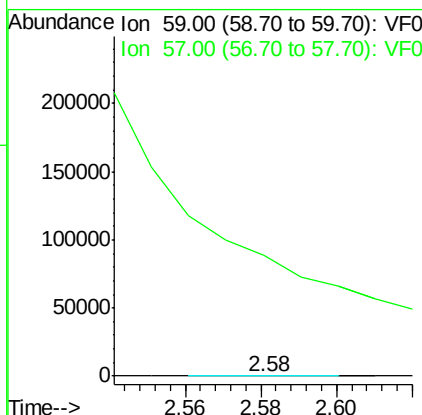
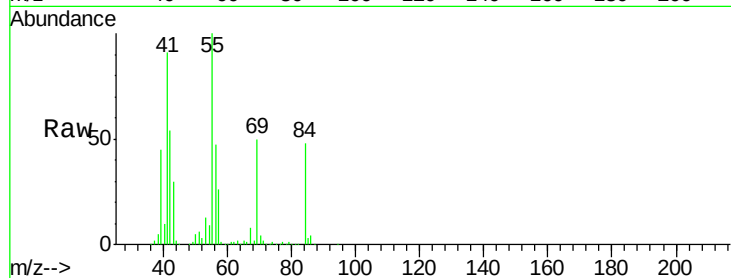


#11

Tert butyl alcohol
Concen: 5.149 ug/l
RT: 2.58 min Scan# 198
Delta R.T. -0.00 min
Lab File: VF061967.D
Acq: 15 Mar 2019 18:08

Instrument :
MSVOA_F
ClientSampleId :
SI-1(9-9.5)

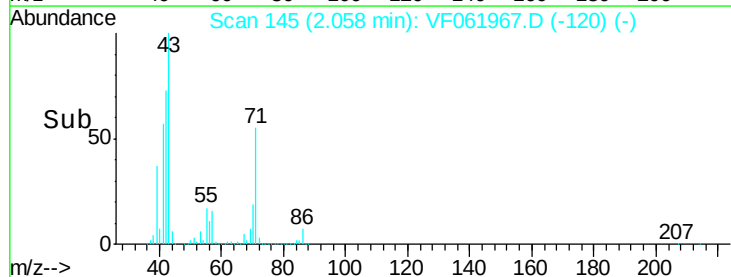
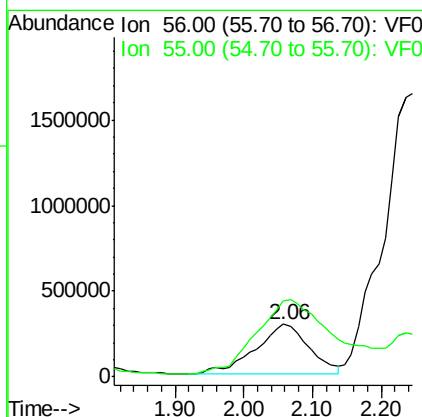
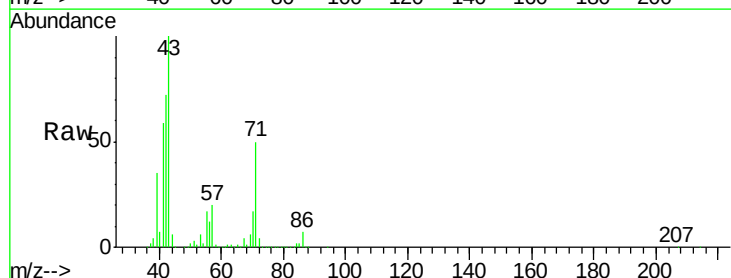
Tot Ion: 59 Resp: 408
Ion Ratio Lower Upper
59 100
57 26562.4 11.8 17.6#

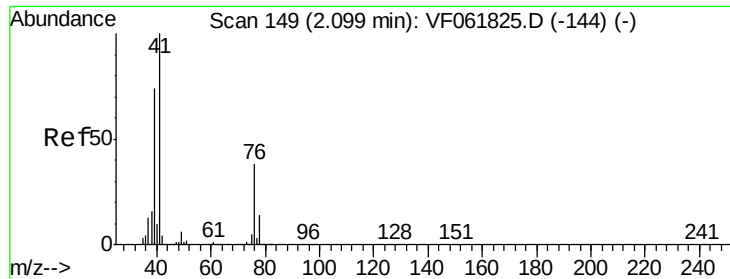


#13

Acrolein
Concen: 15724.946 ug/l
RT: 2.06 min Scan# 145
Delta R.T. 0.05 min
Lab File: VF061967.D
Acq: 15 Mar 2019 18:08

Tgt Ion: 56 Resp: 1578954
Ion Ratio Lower Upper
56 100
55 143.9 51.3 76.9#

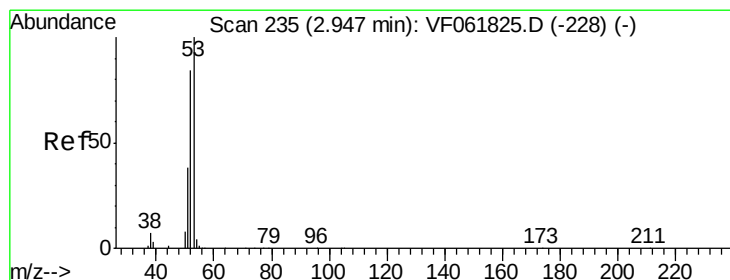
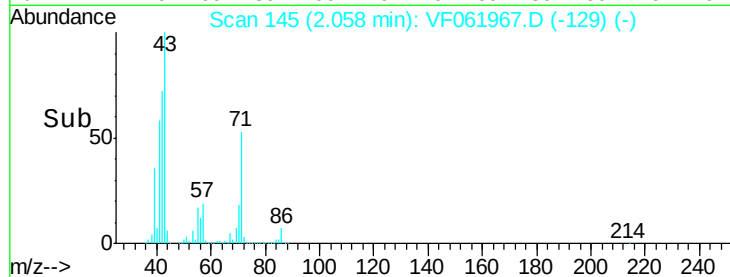
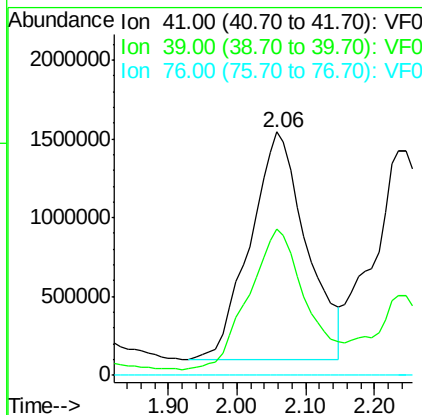
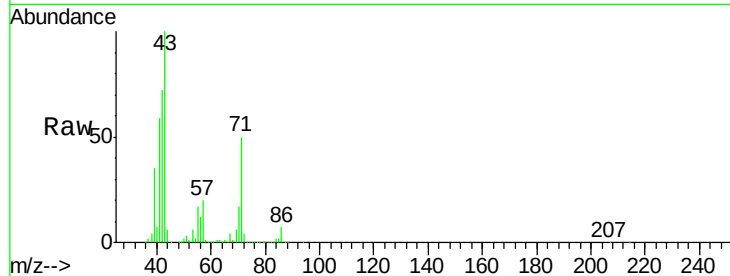




#14
Allvl chloride
Concen: 4529.822 ug/l
RT: 2.06 min Scan# 145
Delta R.T. -0.04 min
Lab File: VF061967.D
Acq: 15 Mar 2019 18:08

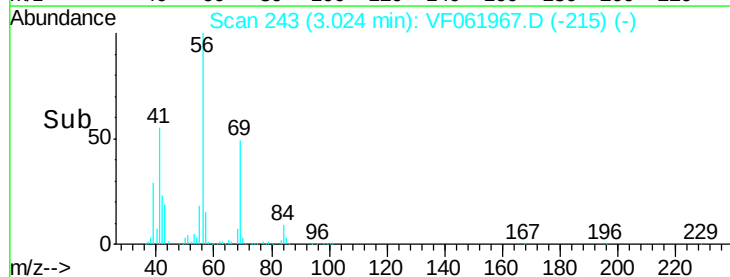
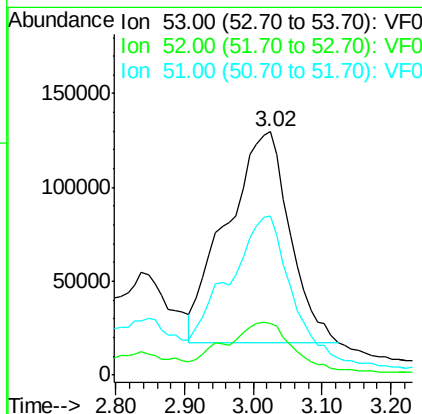
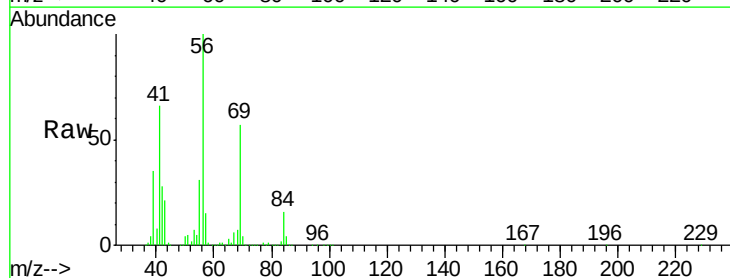
Instrument :
MSVOA_F
ClientSampleId :
SI-1(9-9.5)

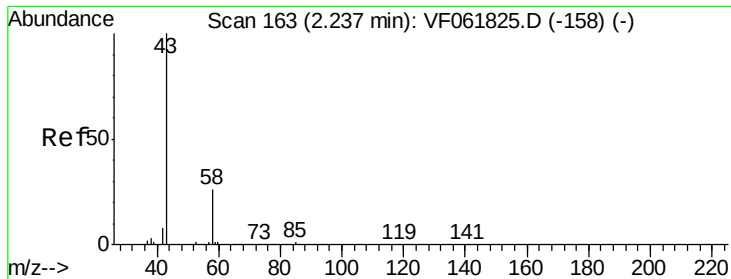
Tot Ion: 41 Resp: 8182254
Ion Ratio Lower Upper
41 100
39 60.1 59.6 89.4
76 0.0 32.3 48.5#



#15
Acrylonitrile
Concen: 2844.807 ug/l
RT: 3.02 min Scan# 243
Delta R.T. 0.08 min
Lab File: VF061967.D
Acq: 15 Mar 2019 18:08

Tgt Ion: 53 Resp: 717838
Ion Ratio Lower Upper
53 100
52 21.5 67.4 101.0#
51 65.2 30.7 46.1#





#16

Acetone

Concen: 8315.433 ug/l

RT: 2.25 min Scan# 164

Delta R.T. 0.01 min

Lab File: VF061967.D

Acq: 15 Mar 2019 18:08

Instrument :

MSVOA_F

ClientSampleId :

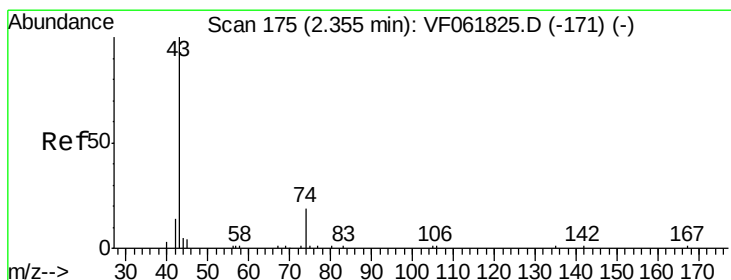
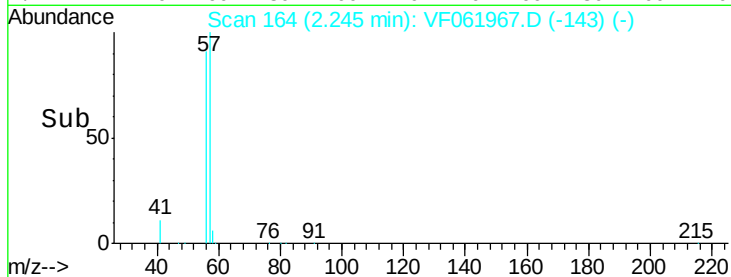
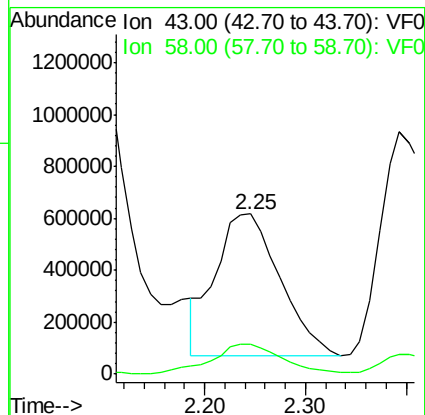
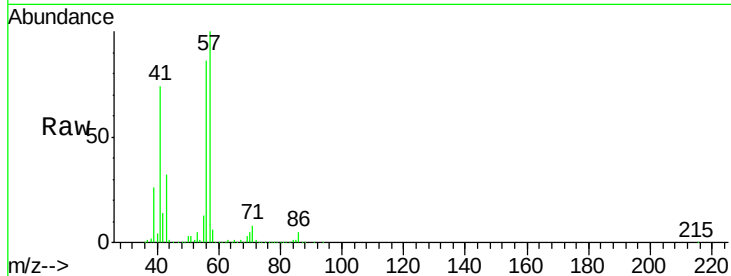
SI-1(9-9.5)

Tot Ion: 43 Resp: 2431859

Ion Ratio Lower Upper

43 100

58 18.7 20.3 30.5#



#18

Methyl Acetate

Concen: 845.428 ug/l

RT: 2.39 min Scan# 179

Delta R.T. 0.04 min

Lab File: VF061967.D

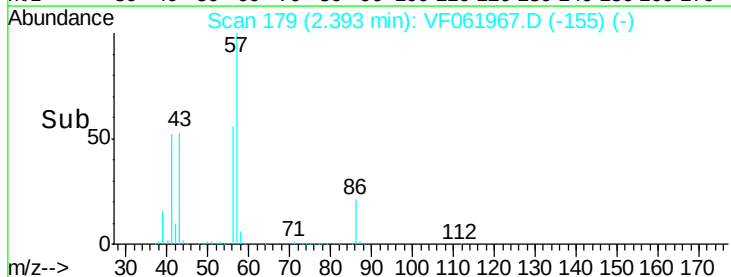
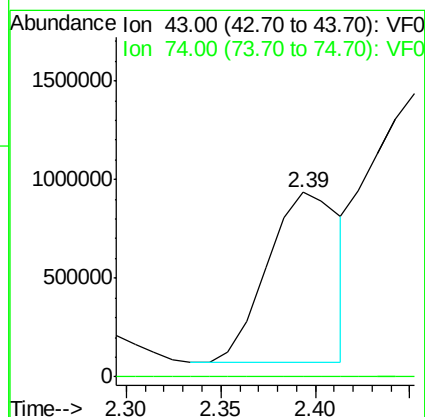
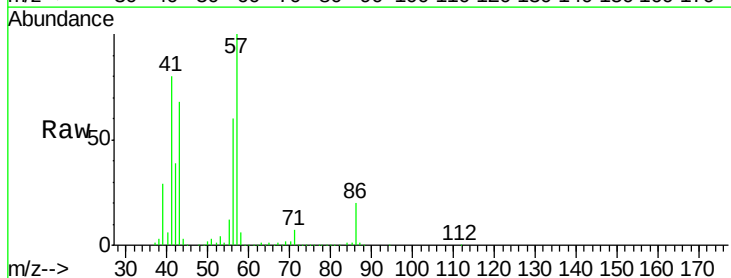
Acq: 15 Mar 2019 18:08

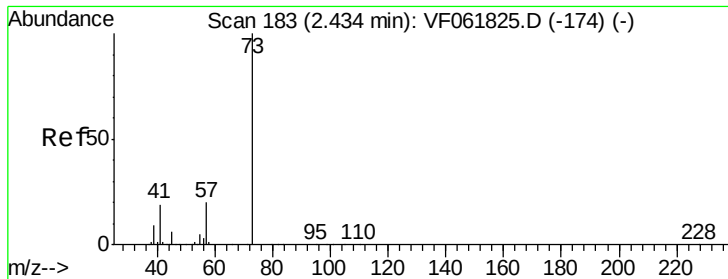
Tgt Ion: 43 Resp: 2310083

Ion Ratio Lower Upper

43 100

74 0.3 13.2 19.8#





#19

Methyl tert-butyl Ether

Concen: 1.790 ug/l

RT: 2.46 min Scan# 186

Delta R.T. 0.03 min

Lab File: VF061967.D

Acq: 15 Mar 2019 18:08

Instrument :

MSVOA_F

ClientSampleId :

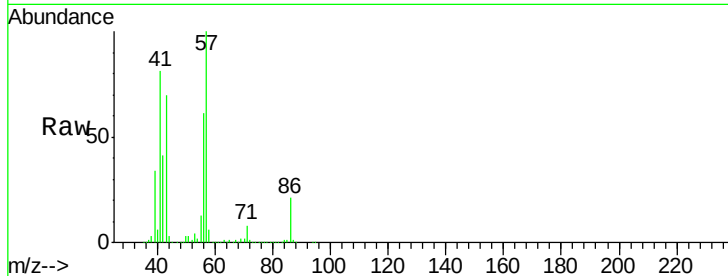
SI-1(9-9.5)

Tot Ion: 73 Resp: 4966

Ion Ratio Lower Upper

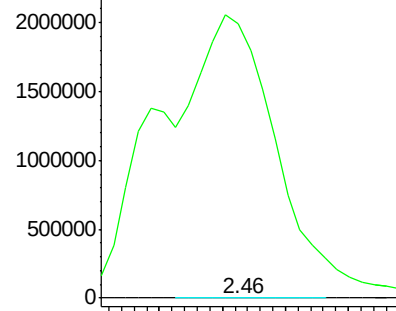
73 100

57 131109.7 16.1 24.1#

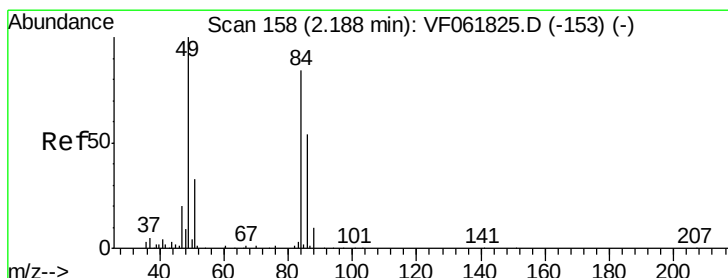
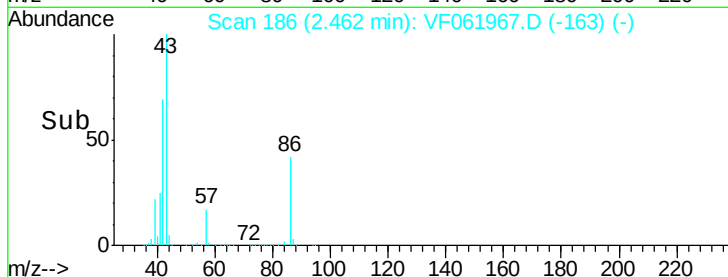


Abundance Ion 73.00 (72.70 to 73.70): VF0

Ion 57.00 (56.70 to 57.70): VF0



Time-->



#20

Methylene Chloride

Concen: 316.648 ug/l

RT: 2.13 min Scan# 152

Delta R.T. -0.06 min

Lab File: VF061967.D

Acq: 15 Mar 2019 18:08

Tgt Ion: 84 Resp: 468752

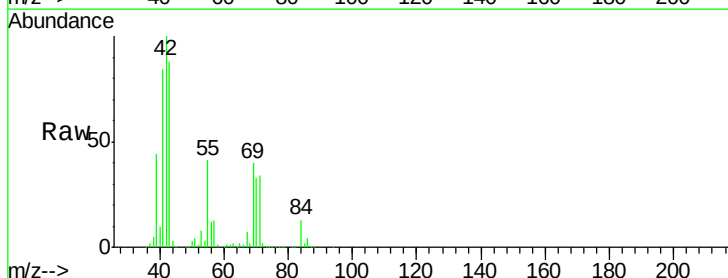
Ion Ratio Lower Upper

84 100

49 3.6 96.8 145.2#

51 30.5 31.8 47.6#

86 28.4 51.6 77.4#

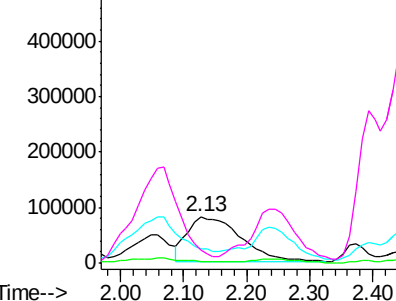


Abundance Ion 84.00 (83.70 to 84.70): VF0

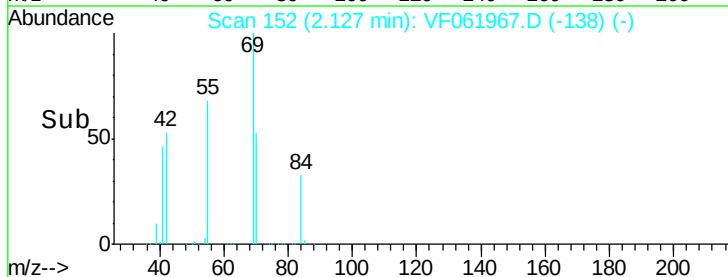
Ion 49.00 (48.70 to 49.70): VF0

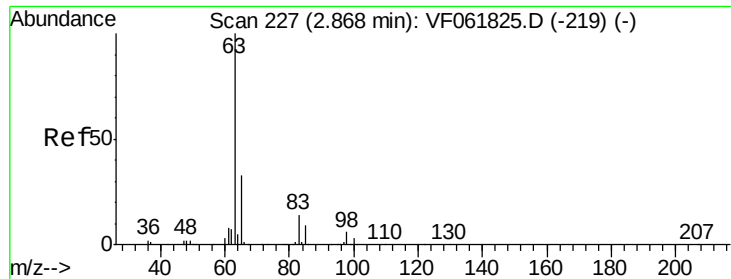
Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



Time-->

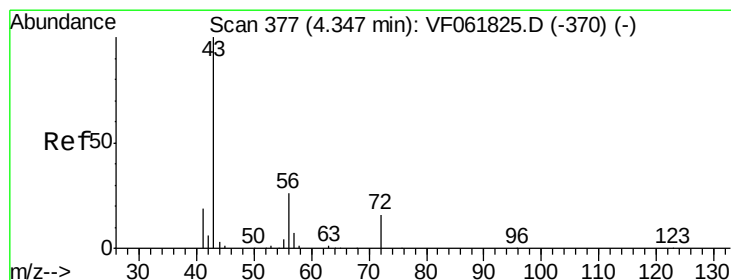
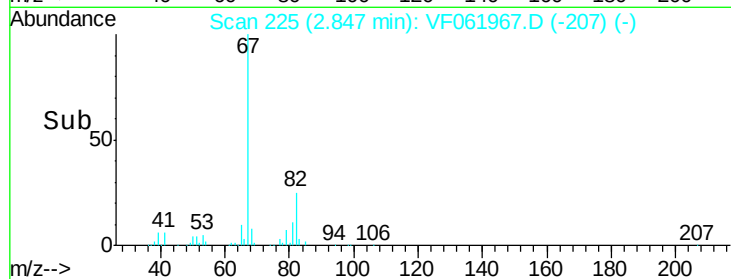
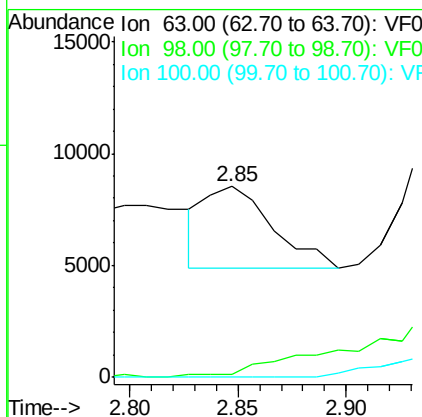
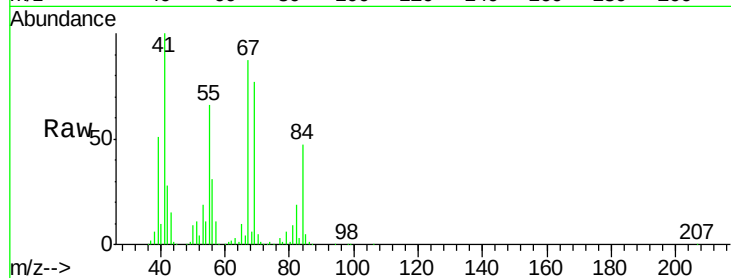




#24
 1,1-Dichloroethane
 Concen: 2.817 ug/l
 RT: 2.85 min Scan# 225
 Delta R.T. -0.02 min
 Lab File: VF061967.D
 Acq: 15 Mar 2019 18:08

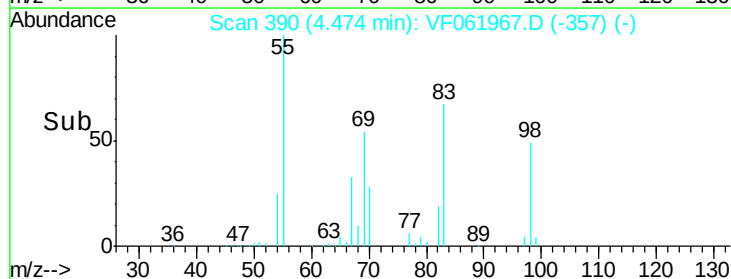
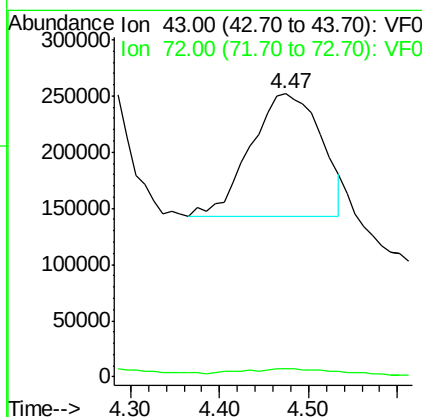
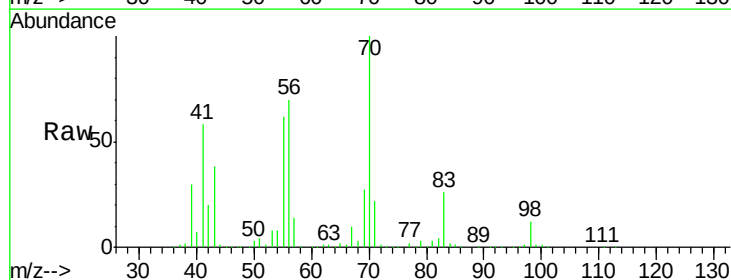
Instrument :
 MSVOA_F
 ClientSampleId :
 SI-1(9-9.5)

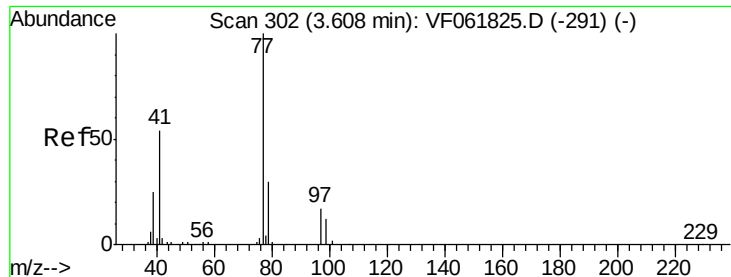
Tot Ion: 63 Resp: 7912
 Ion Ratio Lower Upper
 63 100
 98 1.8 2.9 8.6#
 100 0.0 1.8 5.3#



#25
 2-Butanone
 Concen: 1020.420 ug/l
 RT: 4.47 min Scan# 390
 Delta R.T. 0.13 min
 Lab File: VF061967.D
 Acq: 15 Mar 2019 18:08

Tgt Ion: 43 Resp: 607020
 Ion Ratio Lower Upper
 43 100
 72 2.8 16.2 24.4#





#26

2,2-Dichloropropane

Concen: 2.116 ug/l

RT: 3.64 min Scan# 305

Delta R.T. 0.03 min

Lab File: VF061967.D

Acq: 15 Mar 2019 18:08

Instrument :

MSVOA_F

ClientSampled :

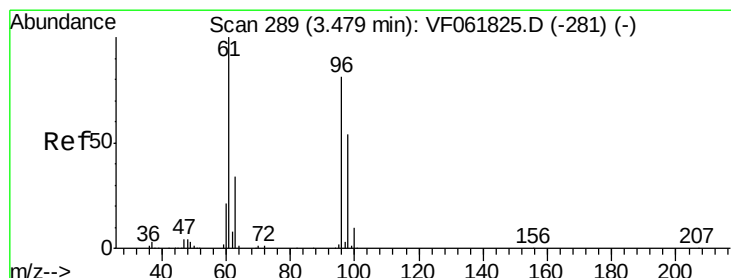
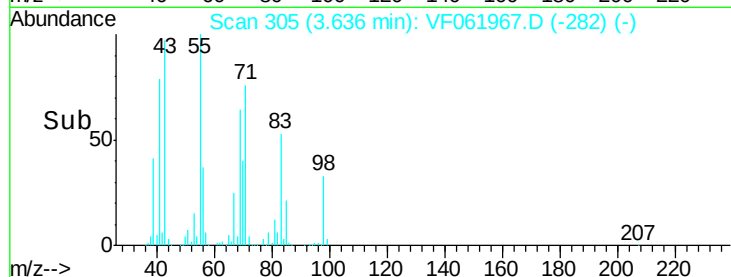
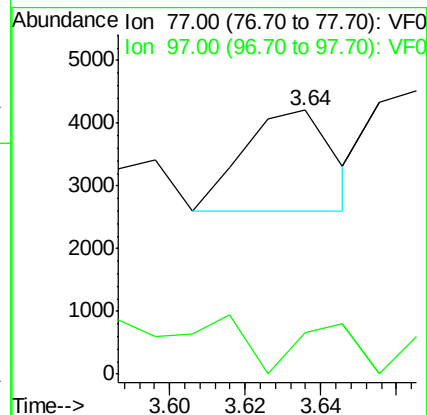
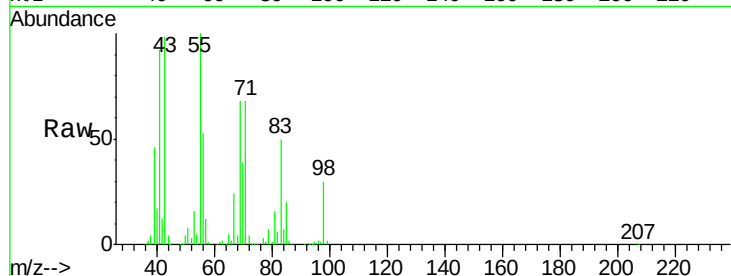
SI-1(9-9.5)

Tot Ion: 77 Resp: 2653

Ion Ratio Lower Upper

77 100

97 15.7 10.4 31.4



#27

cis-1,2-Dichloroethene

Concen: 13.969 ug/l

RT: 3.53 min Scan# 294

Delta R.T. 0.05 min

Lab File: VF061967.D

Acq: 15 Mar 2019 18:08

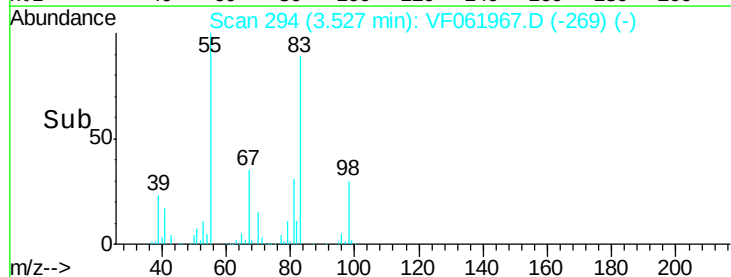
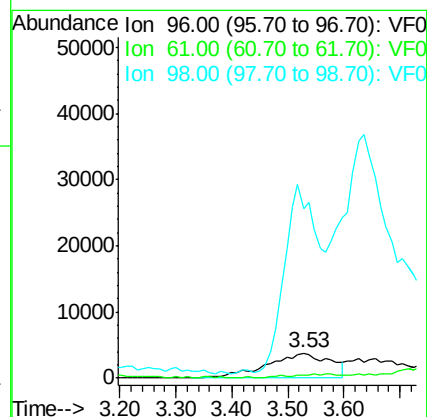
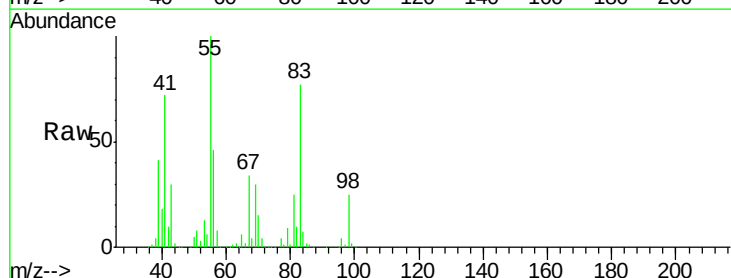
Tgt Ion: 96 Resp: 29864

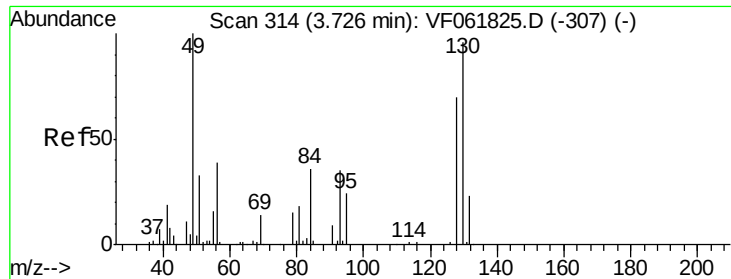
Ion Ratio Lower Upper

96 100

61 9.9 0.0 245.8

98 674.4 0.0 132.6#

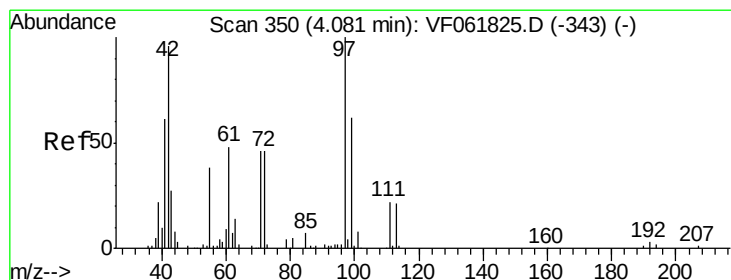
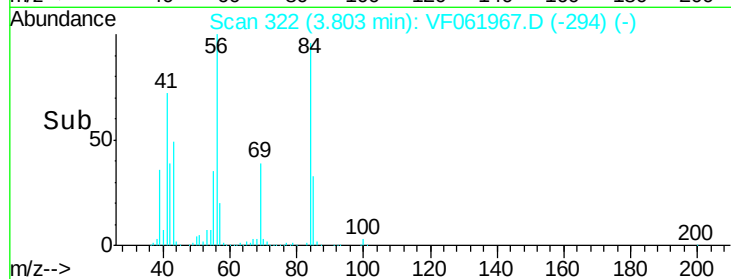
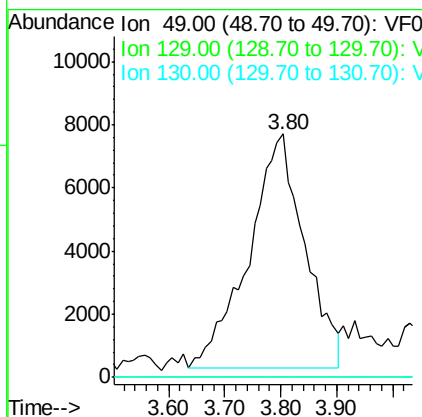
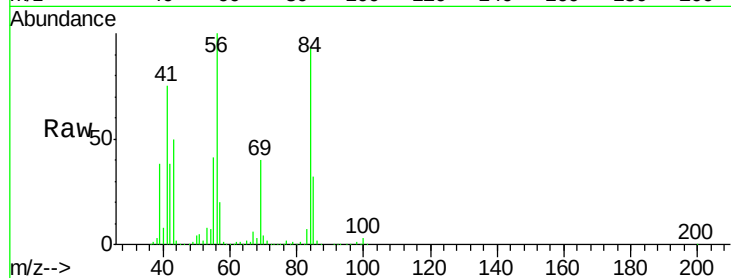




#28
Bromochloromethane
Concen: 41.853 ug/l
RT: 3.80 min Scan# 322
Delta R.T. 0.08 min
Lab File: VF061967.D
Acq: 15 Mar 2019 18:08

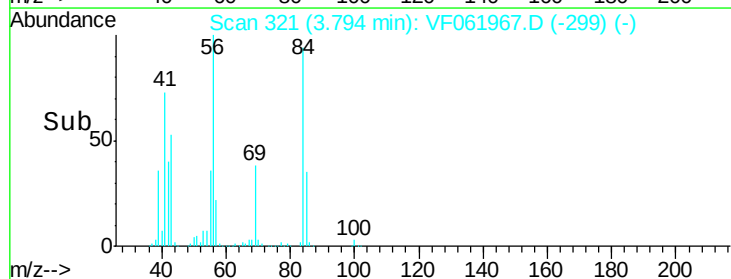
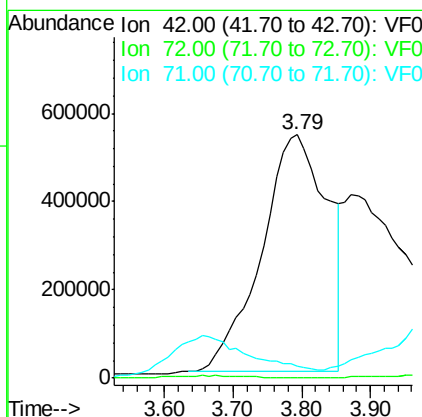
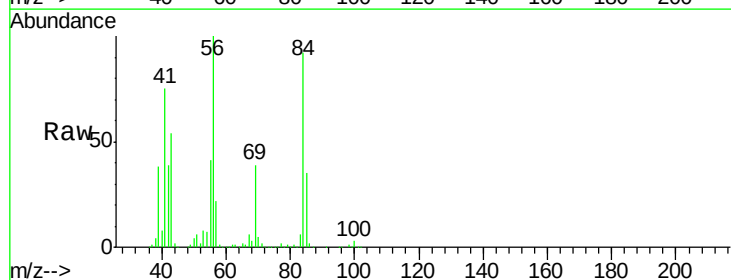
Instrument :
MSVOA_F
ClientSampleId :
SI-1(9-9.5)

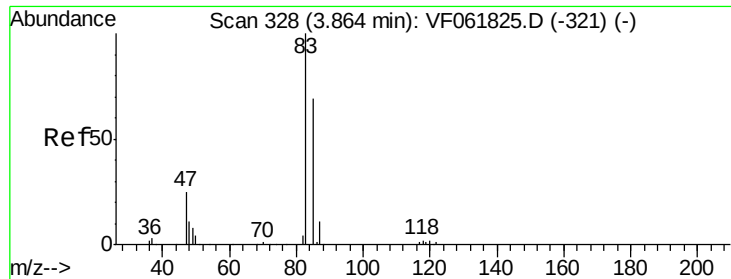
Tot Ion: 49 Resp: 51237
Ion Ratio Lower Upper
49 100
129 0.0 0.0 0.0
130 0.0 76.9 115.3#



#29
Tetrahydrofuran
Concen: 14015.958 ug/l
RT: 3.79 min Scan# 321
Delta R.T. -0.29 min
Lab File: VF061967.D
Acq: 15 Mar 2019 18:08

Tgt Ion: 42 Resp: 3595800
Ion Ratio Lower Upper
42 100
72 0.0 34.4 51.6#
71 0.0 34.6 52.0#

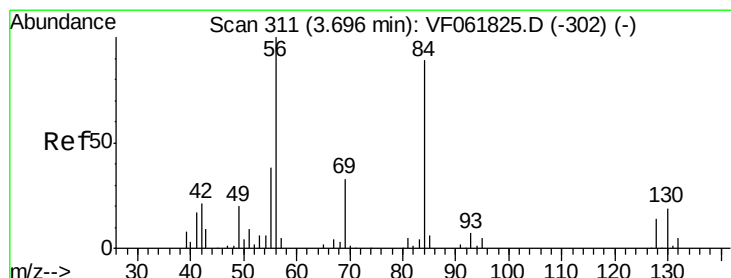
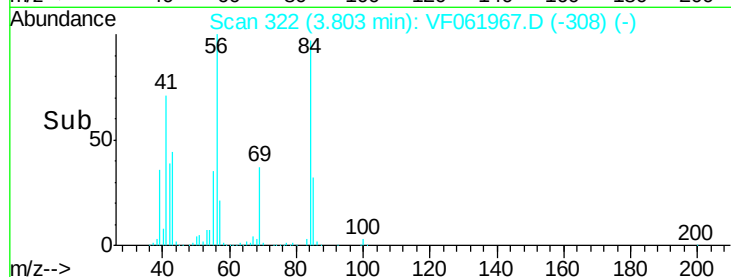
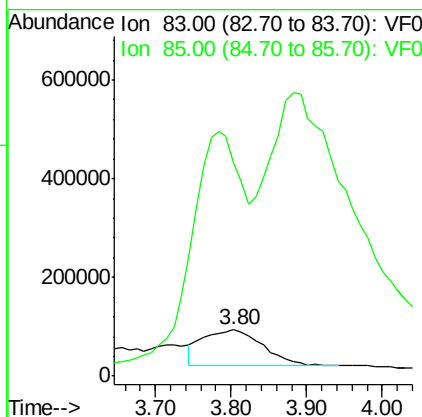
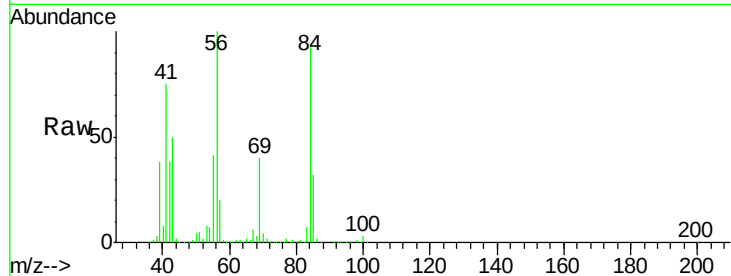




#30
Chloroform
Concen: 124.435 ug/l
RT: 3.80 min Scan# 322
Delta R.T. -0.06 min
Lab File: VF061967.D
Acq: 15 Mar 2019 18:08

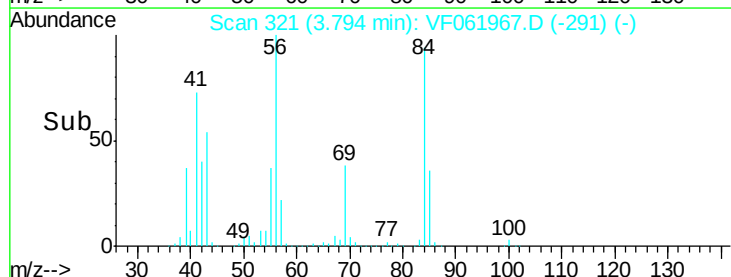
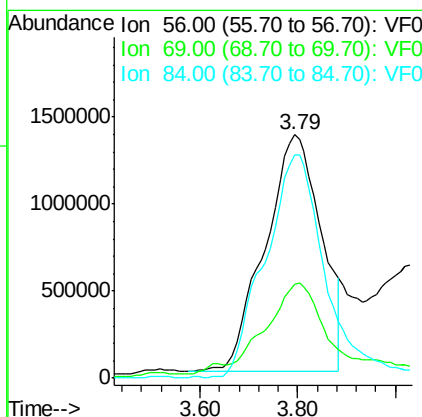
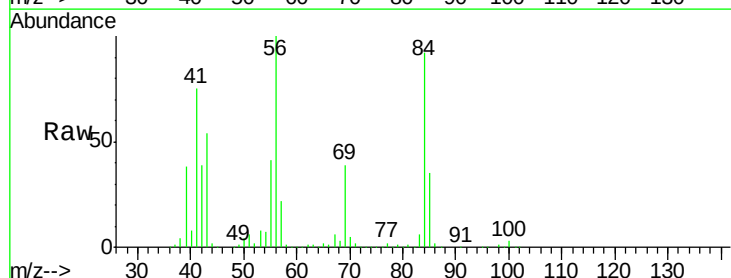
Instrument :
MSVOA_F
ClientSampleId :
SI-1(9-9.5)

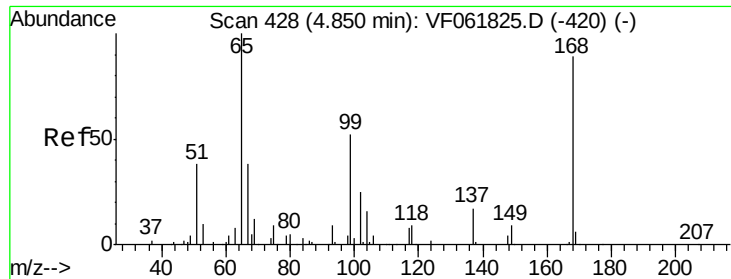
Tot Ion: 83 Resp: 399170
Ion Ratio Lower Upper
83 100
85 464.1 55.3 82.9#



#31
Cyclohexane
Concen: 3677.977 ug/l
RT: 3.79 min Scan# 321
Delta R.T. 0.10 min
Lab File: VF061967.D
Acq: 15 Mar 2019 18:08

Tgt Ion: 56 Resp: 10819027
Ion Ratio Lower Upper
56 100
69 38.7 26.0 39.0
84 91.7 71.0 106.6

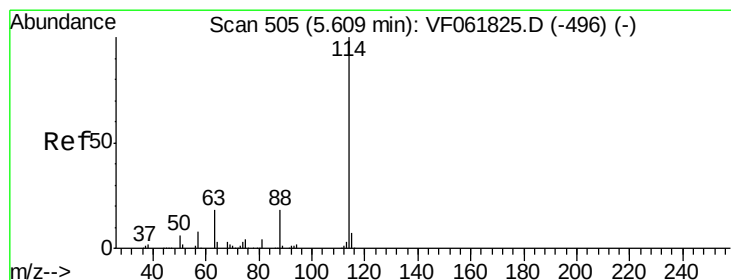
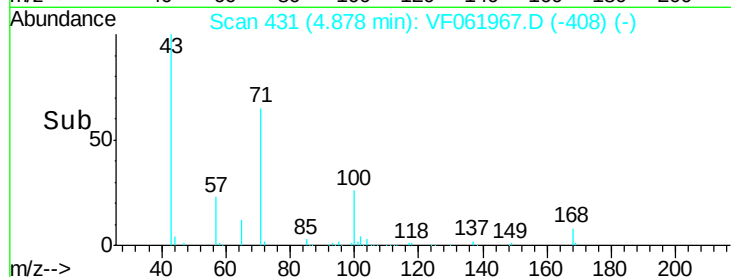
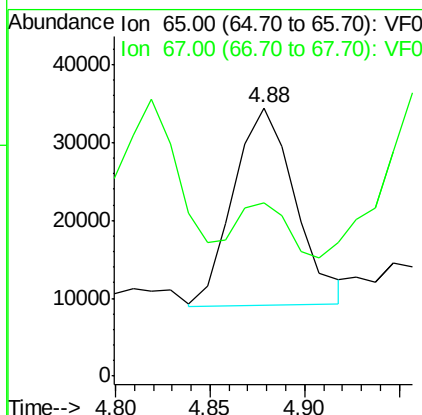
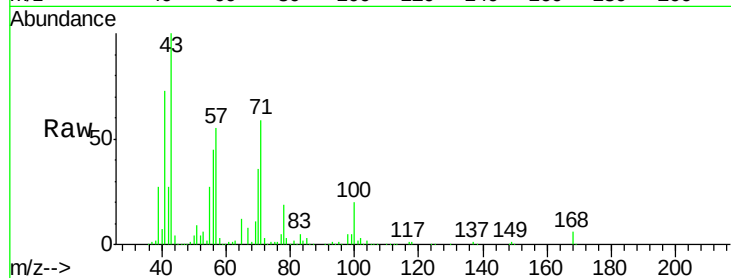




#33
 1,2-Dichloroethane-d4
 Concen: 41.298 ug/l
 RT: 4.88 min Scan# 431
 Delta R.T. 0.03 min
 Lab File: VF061967.D
 Acq: 15 Mar 2019 18:08

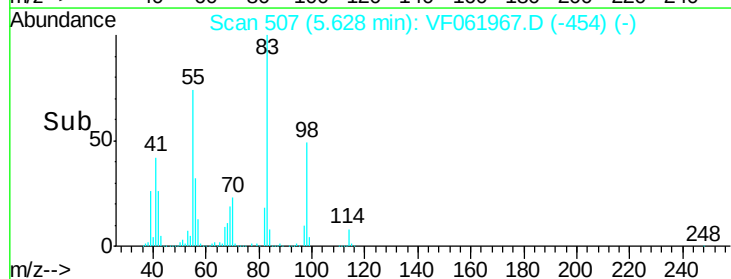
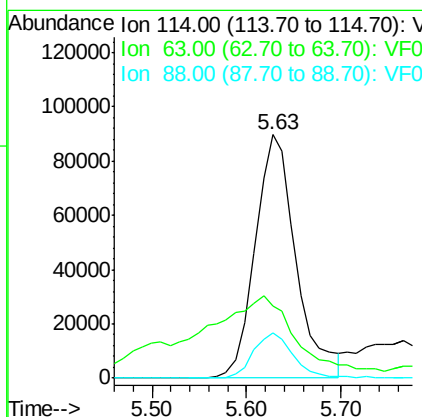
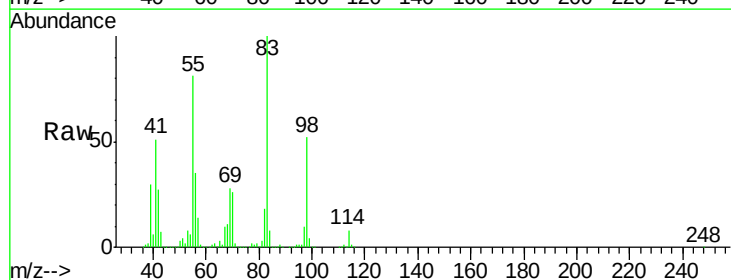
Instrument :
 MSVOA_F
 ClientSampled :
 SI-1(9-9.5)

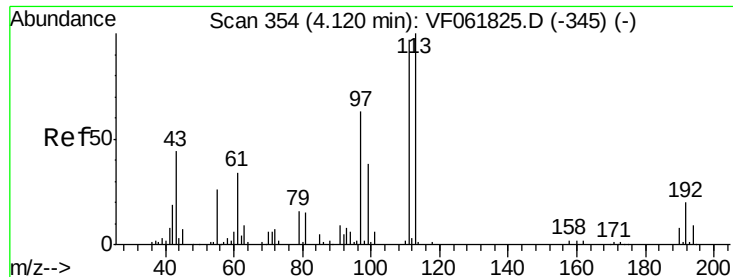
Tot Ion: 65 Resp: 57658
 Ion Ratio Lower Upper
 65 100
 67 64.8 0.0 108.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.63 min Scan# 507
 Delta R.T. 0.02 min
 Lab File: VF061967.D
 Acq: 15 Mar 2019 18:08

Tgt Ion:114 Resp: 269593
 Ion Ratio Lower Upper
 114 100
 63 29.7 0.0 35.6
 88 18.5 0.0 35.6





#35

Dibromofluoromethane

Concen: 47.601 ug/l

RT: 4.14 min Scan# 356

Delta R.T. 0.02 min

Lab File: VF061967.D

Acq: 15 Mar 2019 18:08

Instrument :

MSVOA_F

ClientSampleId :

SI-1(9-9.5)

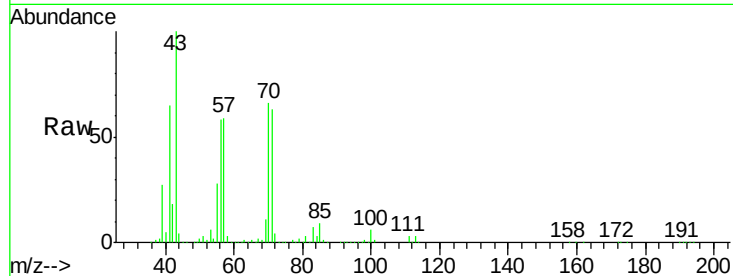
Tot Ion:113 Resp: 89556

Ion Ratio Lower Upper

113 100

111 98.1 77.6 116.4

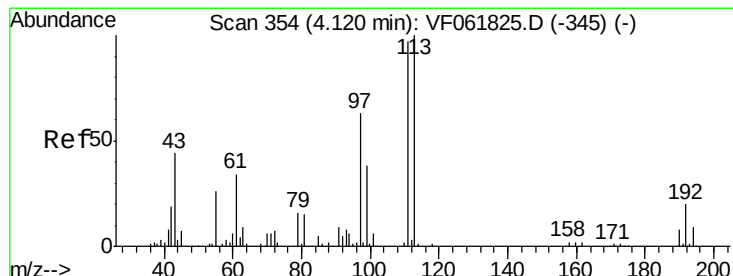
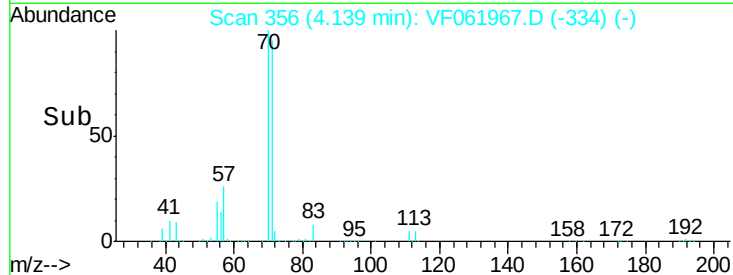
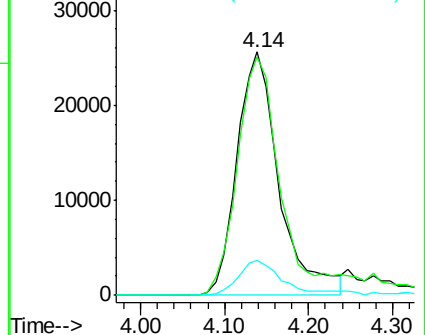
192 14.2 15.9 23.9#



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#37

Ethyl Acetate

Concen: 768.184 ug/l

RT: 4.04 min Scan# 346

Delta R.T. -0.08 min

Lab File: VF061967.D

Acq: 15 Mar 2019 18:08

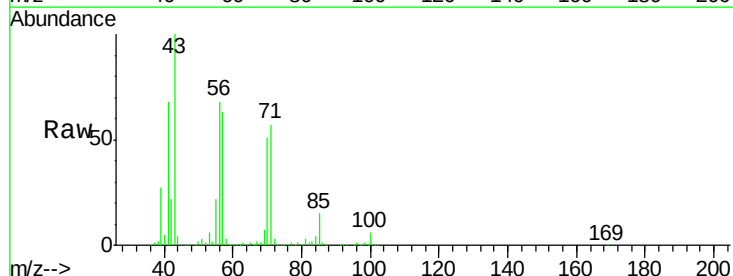
Tgt Ion: 43 Resp: 821109

Ion Ratio Lower Upper

43 100

61 0.1 60.7 91.1#

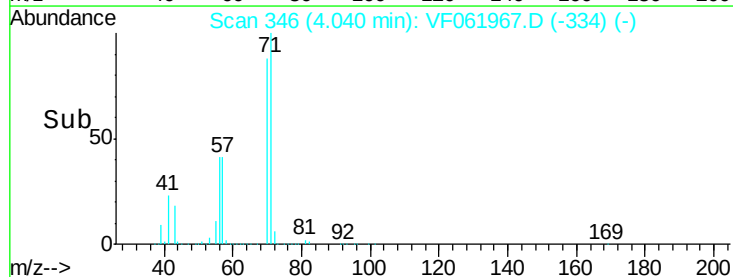
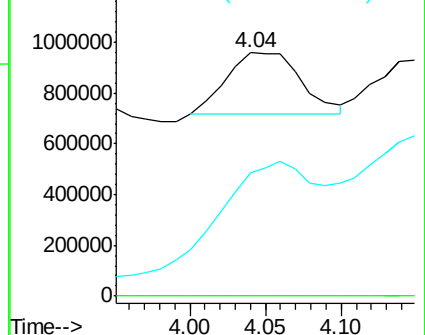
70 50.6 10.6 15.8#

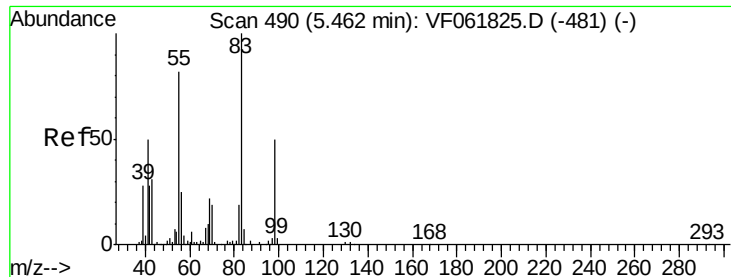


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

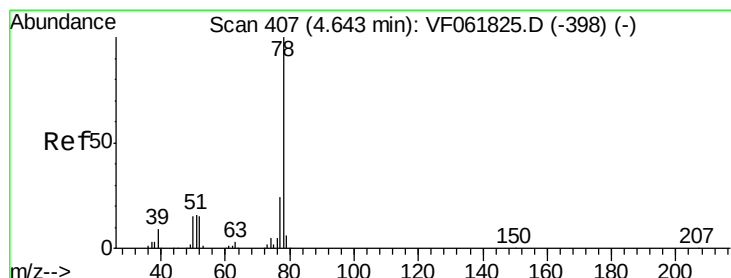
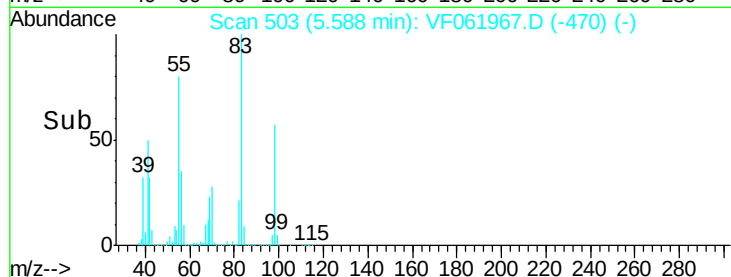
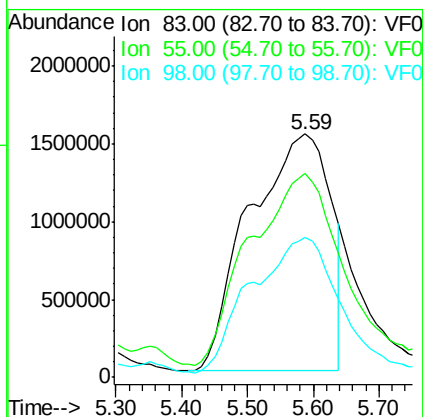
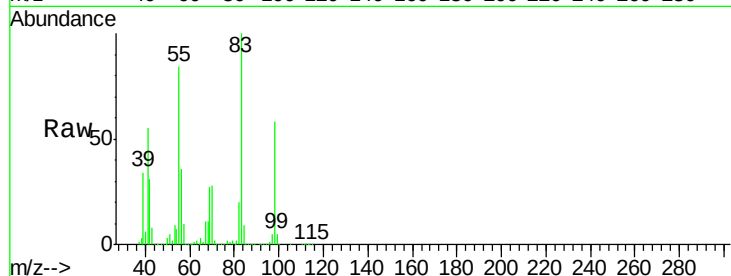




#39
Methylcyclohexane
Concen: 4307.874 ug/l
RT: 5.59 min Scan# 503
Delta R.T. 0.13 min
Lab File: VF061967.D
Acq: 15 Mar 2019 18:08

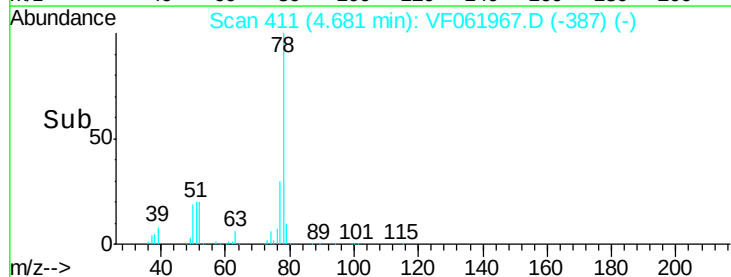
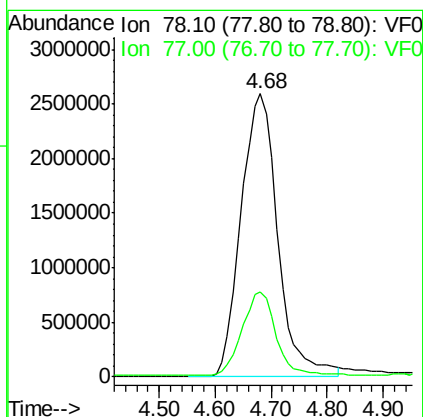
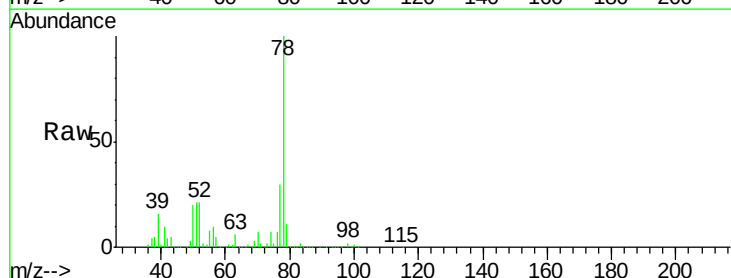
Instrument :
MSVOA_F
ClientSampleId :
SI-1(9-9.5)

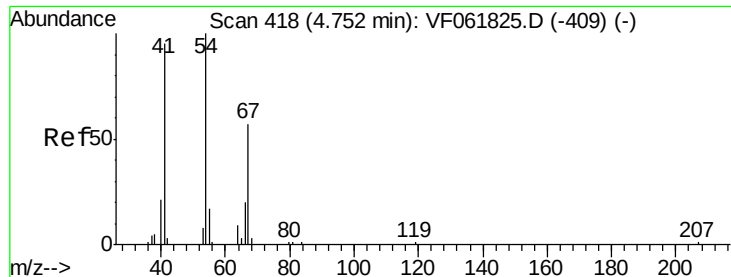
Tot Ion: 83 Resp:12957736
Ion Ratio Lower Upper
83 100
55 83.5 66.0 99.0
98 57.6 39.8 59.6



#40
Benzene
Concen: 1768.745 ug/l
RT: 4.68 min Scan# 411
Delta R.T. 0.04 min
Lab File: VF061967.D
Acq: 15 Mar 2019 18:08

Tgt Ion: 78 Resp:11773741
Ion Ratio Lower Upper
78 100
77 30.2 19.5 29.3#





#41

Methacrylonitrile

Concen: 11374.429 ug/l

RT: 4.77 min Scan# 420

Delta R.T. 0.02 min

Lab File: VF061967.D

Acq: 15 Mar 2019 18:08

Instrument :

MSVOA_F

ClientSampleId :

SI-1(9-9.5)

Tot Ion: 41 Resp: 6661284

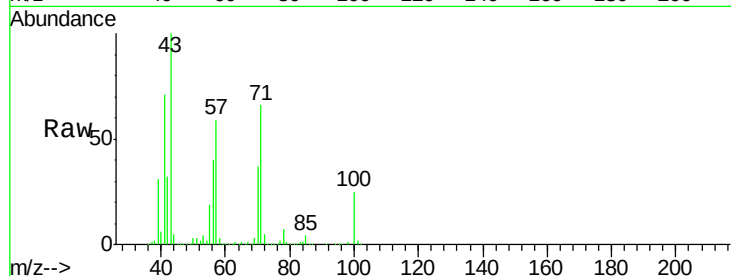
Ion Ratio Lower Upper

41 100

39 43.8 43.0 64.6

67 1.7 47.8 71.8#

52 2.5 40.5 60.7#

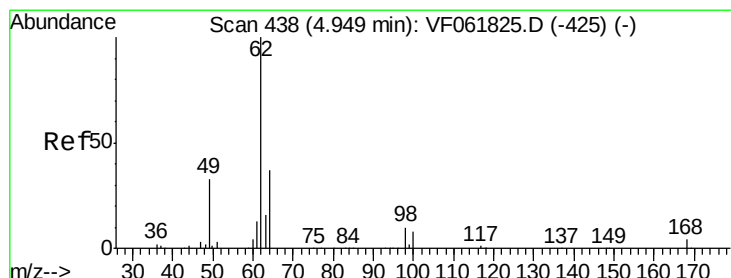
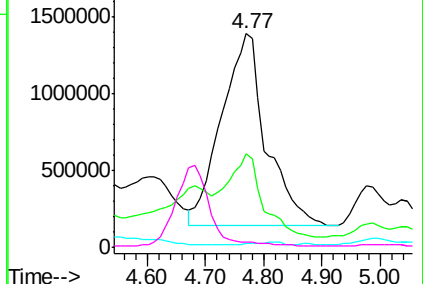
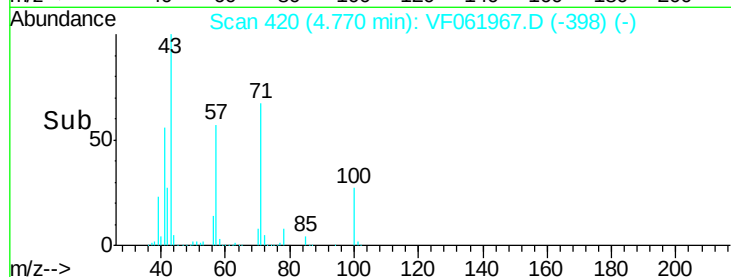


Abundance Ion 41.00 (40.70 to 41.70): VF0

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



#42

1,2-Dichloroethane

Concen: 11.865 ug/l

RT: 5.00 min Scan# 443

Delta R.T. 0.05 min

Lab File: VF061967.D

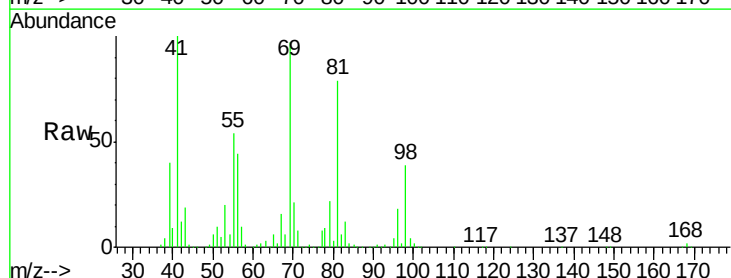
Acq: 15 Mar 2019 18:08

Tgt Ion: 62 Resp: 19683

Ion Ratio Lower Upper

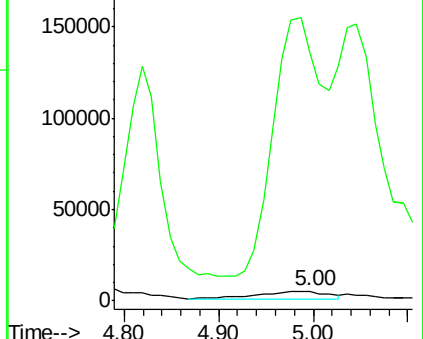
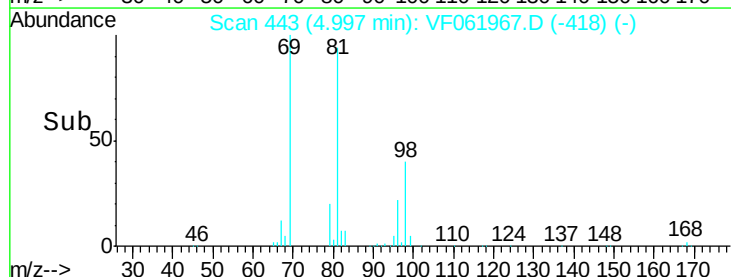
62 100

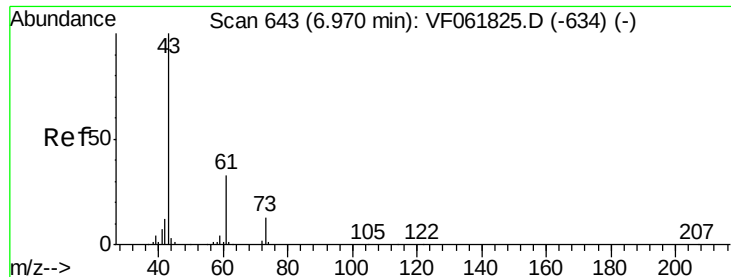
98 2459.8 0.0 21.0#



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#43

Isopropyl Acetate

Concen: 6609.517 ug/l

RT: 6.88 min Scan# 634

Delta R.T. -0.09 min

Lab File: VF061967.D

Acq: 15 Mar 2019 18:08

Instrument :

MSVOA_F

ClientSampleId :

SI-1(9-9.5)

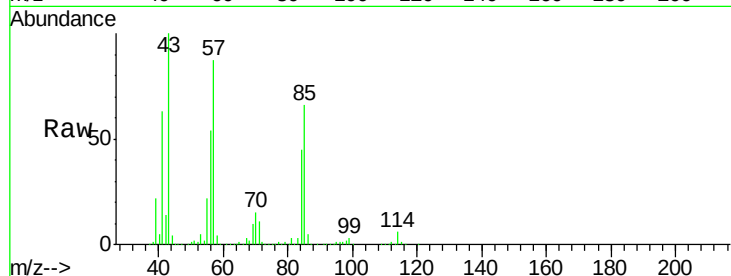
Tot Ion: 43 Resp: 8708639

Ion Ratio Lower Upper

43 100

61 0.1 26.1 39.1#

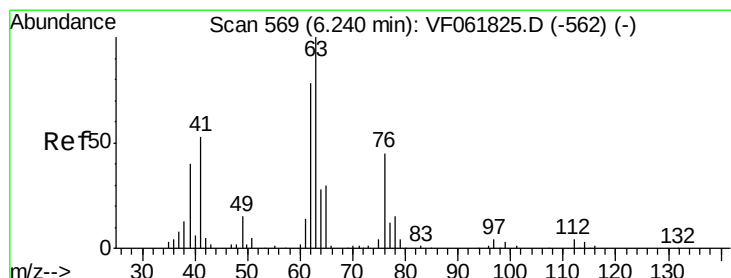
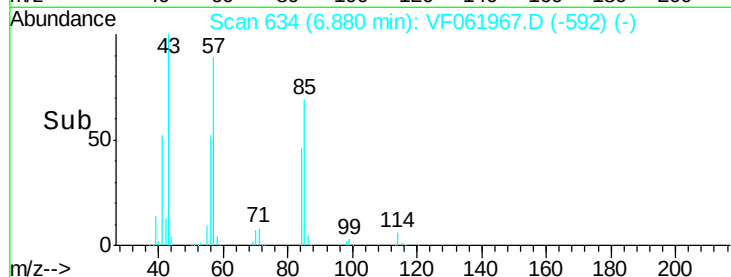
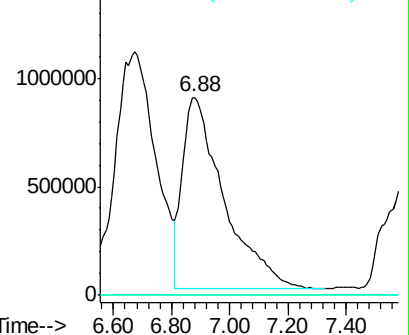
87 0.1 0.0 0.0#



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: 1.612 ug/l

RT: 6.30 min Scan# 575

Delta R.T. 0.06 min

Lab File: VF061967.D

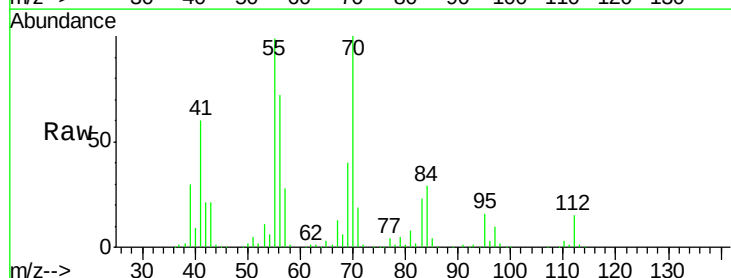
Acq: 15 Mar 2019 18:08

Tgt Ion: 63 Resp: 2551

Ion Ratio Lower Upper

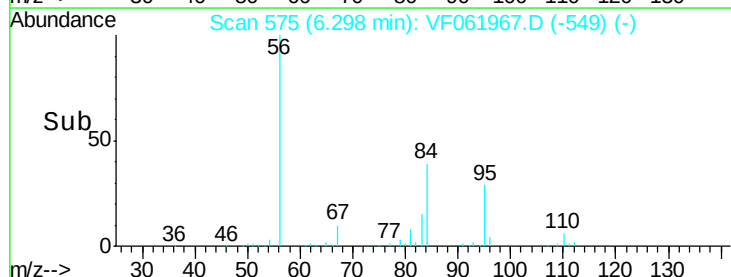
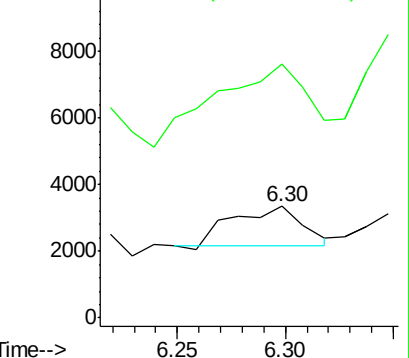
63 100

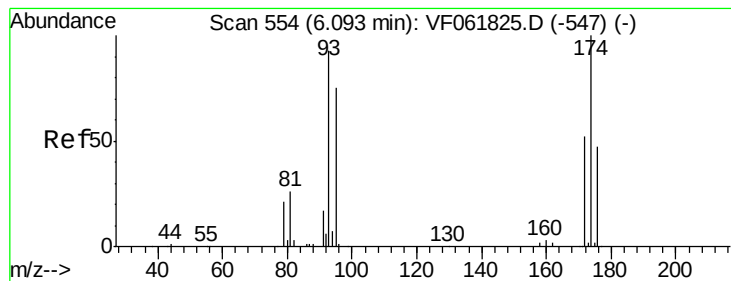
65 227.8 24.0 36.0#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0

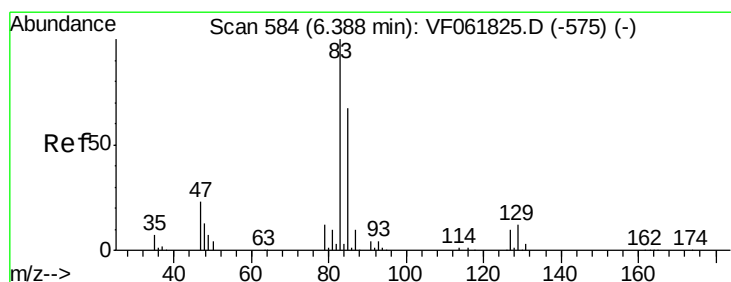
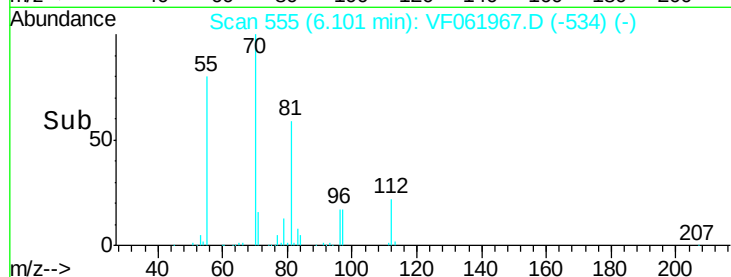
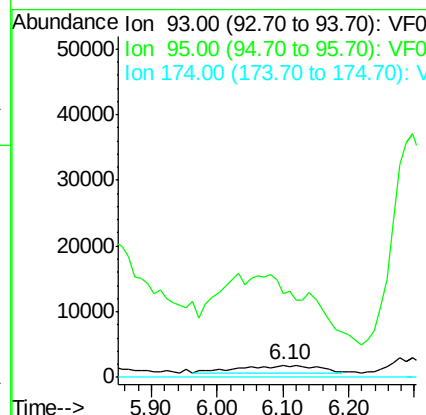
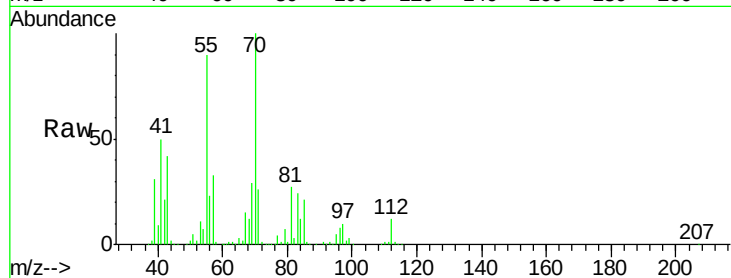




#46
Dibromomethane
Concen: 9.122 ug/l
RT: 6.10 min Scan# 555
Delta R.T. 0.01 min
Lab File: VF061967.D
Acq: 15 Mar 2019 18:08

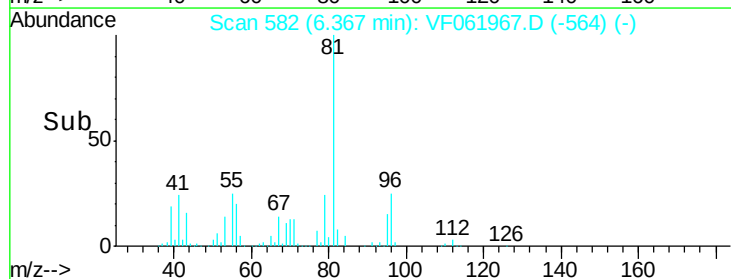
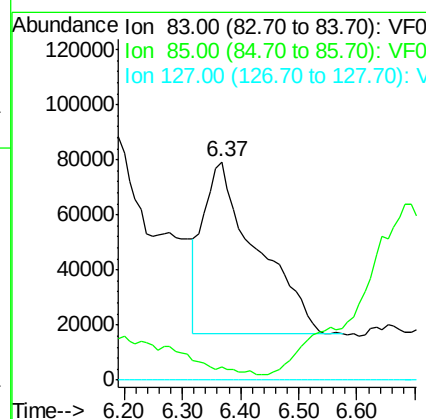
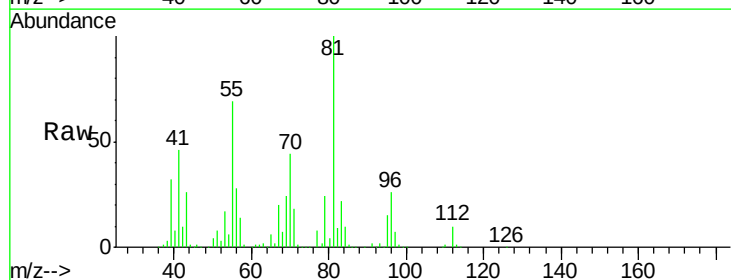
Instrument :
MSVOA_F
ClientSampleId :
SI-1(9-9.5)

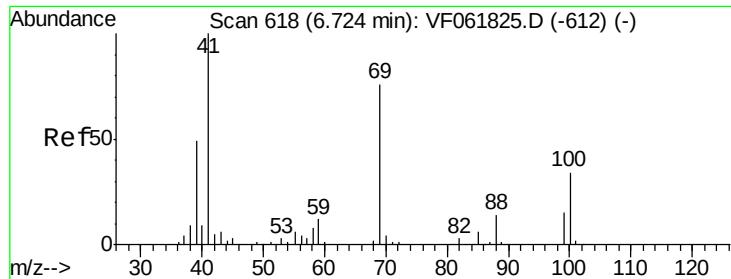
Tot Ion: 93 Resp: 9087
Ion Ratio Lower Upper
93 100
95 668.1 64.4 96.6#
174 0.0 85.8 128.6#



#47
Bromodichloromethane
Concen: 182.471 ug/l
RT: 6.37 min Scan# 582
Delta R.T. -0.02 min
Lab File: VF061967.D
Acq: 15 Mar 2019 18:08

Tgt Ion: 83 Resp: 401593
Ion Ratio Lower Upper
83 100
85 6.0 53.6 80.4#
127 0.0 8.1 12.1#

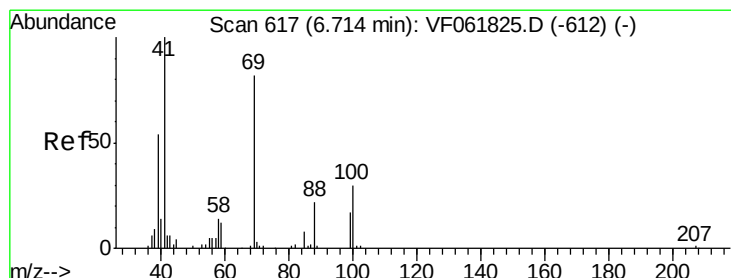
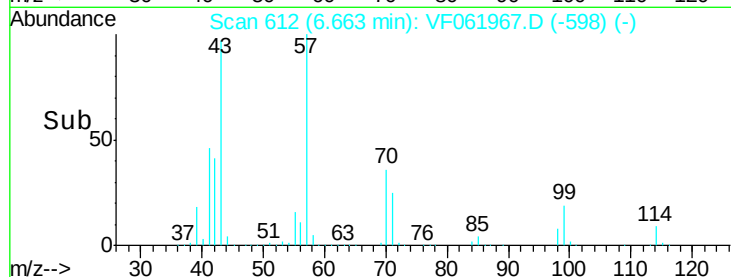
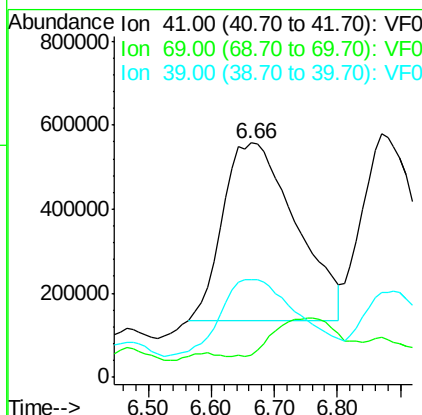
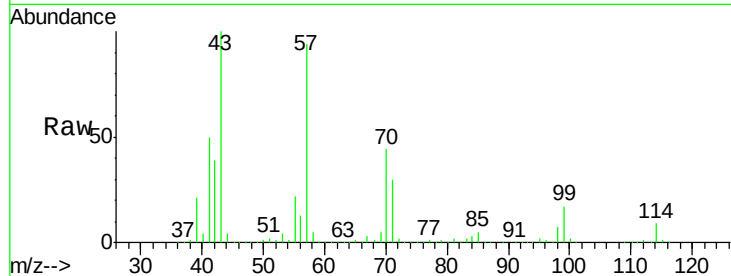




#48
Methyl methacrylate
Concen: 4079.267 ug/l
RT: 6.66 min Scan# 612
Delta R.T. -0.06 min
Lab File: VF061967.D
Acq: 15 Mar 2019 18:08

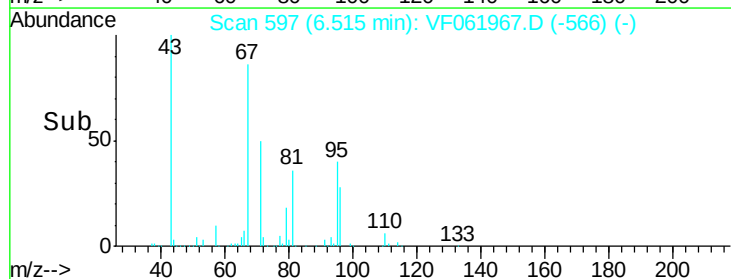
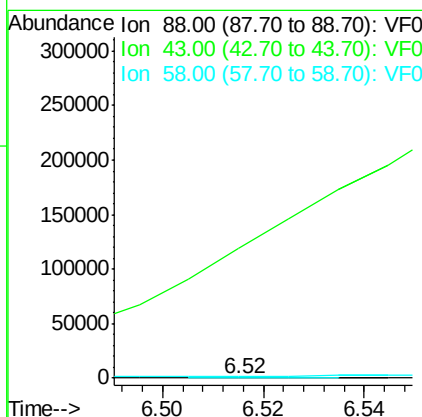
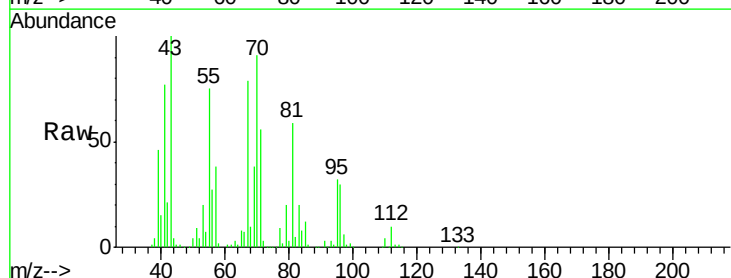
Instrument :
MSVOA_F
ClientSampleId :
SI-1(9-9.5)

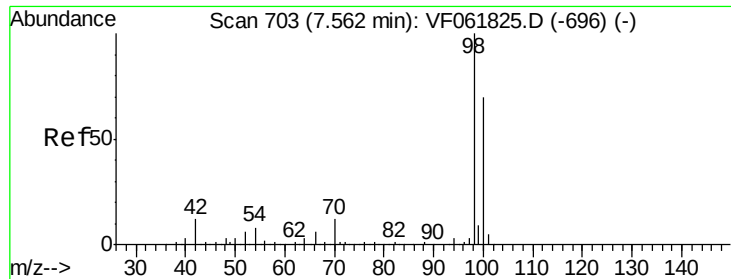
Tot Ion: 41 Resp: 3401588
Ion Ratio Lower Upper
41 100
69 9.4 60.4 90.6#
39 41.7 39.7 59.5



#49
1,4-Dioxane
Concen: 10.626 ug/l
RT: 6.52 min Scan# 597
Delta R.T. -0.20 min
Lab File: VF061967.D
Acq: 15 Mar 2019 18:08

Tgt Ion: 88 Resp: 81
Ion Ratio Lower Upper
88 100
43 86715.3 28.4 42.6#
58 1505.1 50.7 76.1#





#50

Toluene-d8

Concen: 47.050 ug/l

RT: 7.62 min Scan# 709

Delta R.T. 0.06 min

Lab File: VF061967.D

Acq: 15 Mar 2019 18:08

Instrument :

MSVOA_F

ClientSampleId :

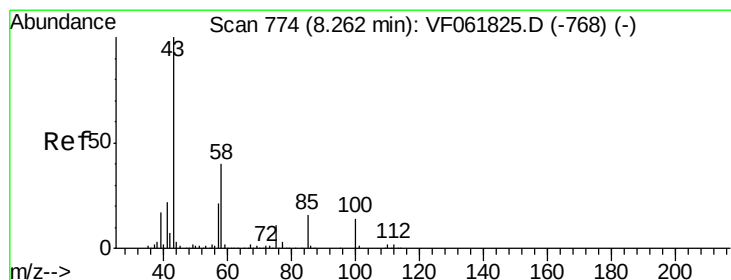
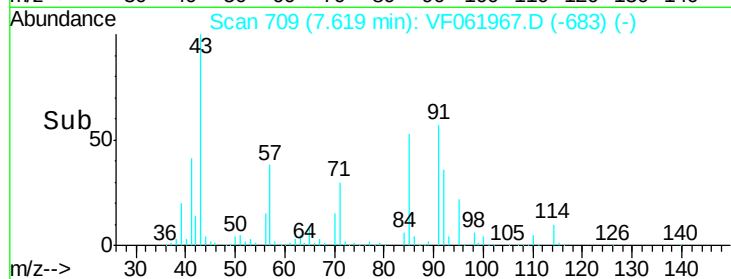
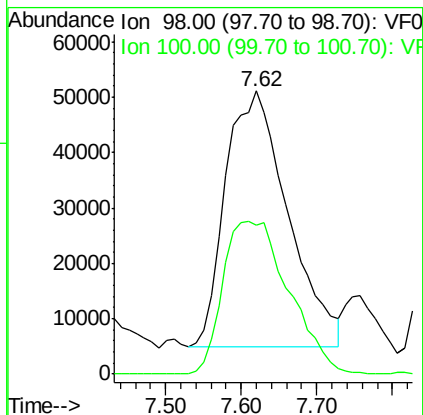
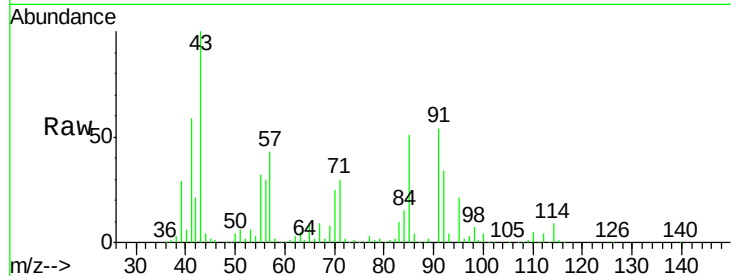
SI-1(9-9.5)

Tot Ion: 98 Resp: 263107

Ion Ratio Lower Upper

98 100

100 52.5 56.0 84.0#



#51

4-Methyl-2-Pentanone

Concen: 1287.069 ug/l

RT: 8.33 min Scan# 781

Delta R.T. 0.07 min

Lab File: VF061967.D

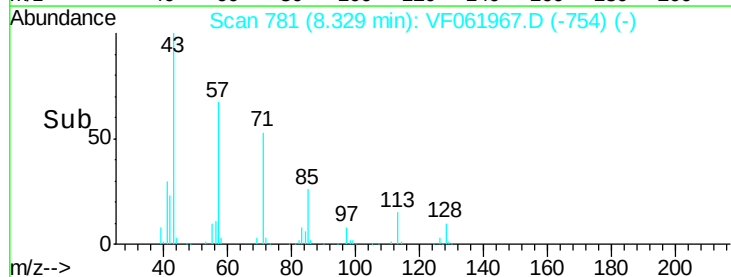
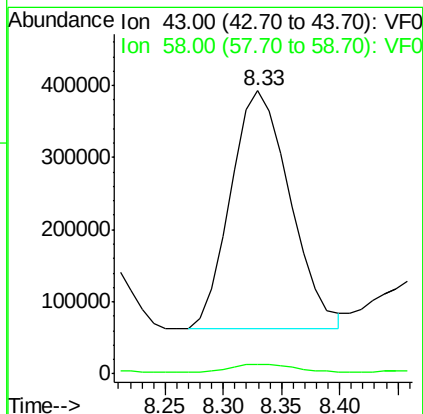
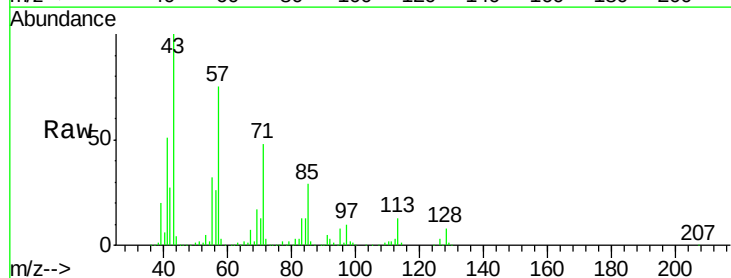
Acq: 15 Mar 2019 18:08

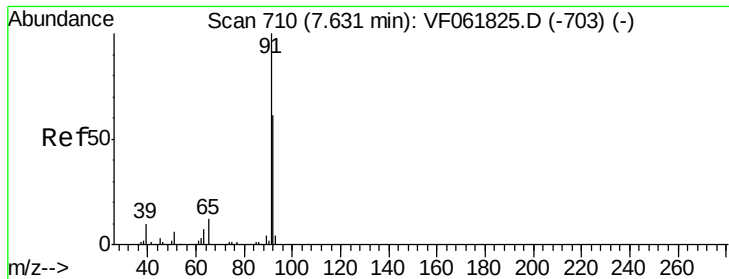
Tgt Ion: 43 Resp: 1172052

Ion Ratio Lower Upper

43 100

58 3.5 31.8 47.8#





#52

Toluene

Concen: 6698.524 ug/l

RT: 7.78 min Scan# 725

Delta R.T. 0.15 min

Lab File: VF061967.D

Acq: 15 Mar 2019 18:08

Instrument :

MSVOA_F

ClientSampleId :

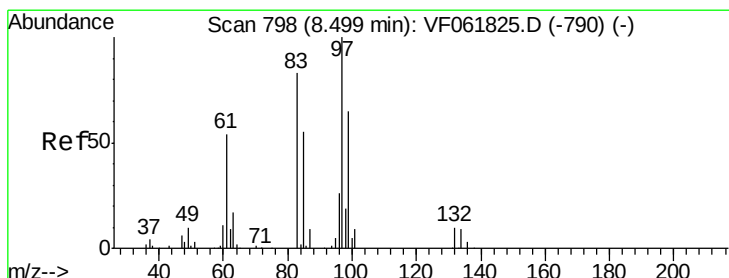
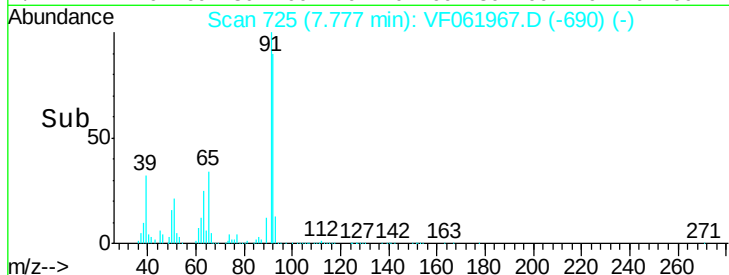
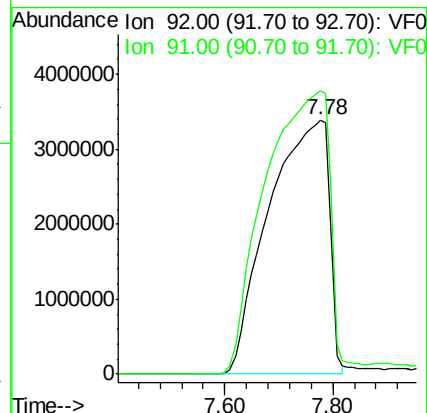
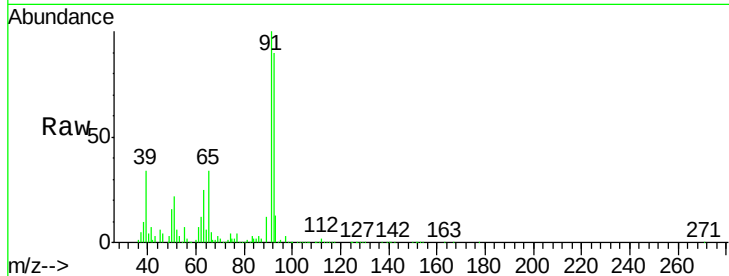
SI-1(9-9.5)

Tot Ion: 92 Resp:26377745

Ion Ratio Lower Upper

92 100

91 111.4 132.0 198.0#



#55

1,1,2-Trichloroethane

Concen: 548.660 ug/l

RT: 8.47 min Scan# 795

Delta R.T. -0.03 min

Lab File: VF061967.D

Acq: 15 Mar 2019 18:08

Tgt Ion: 97 Resp: 622507

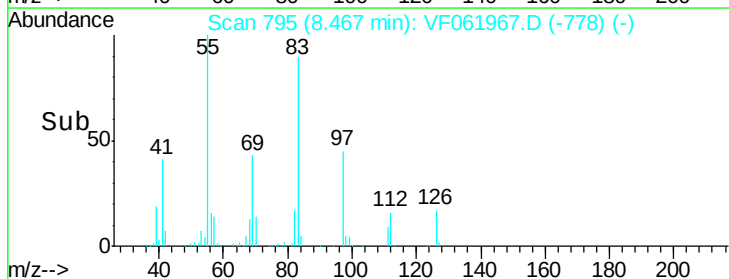
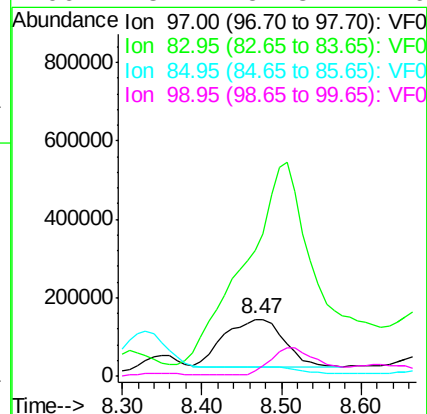
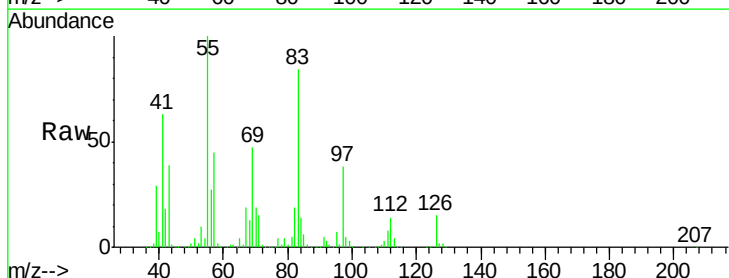
Ion Ratio Lower Upper

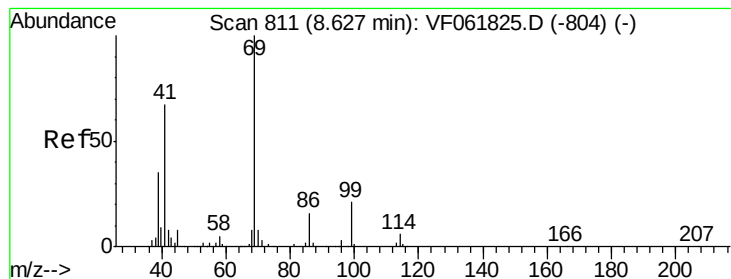
97 100

83 222.2 66.5 99.7#

85 16.4 44.2 66.2#

99 8.1 51.8 77.6#





#56

Ethyl methacrylate

Concen: 200.553 ug/l

RT: 8.78 min Scan# 827

Delta R.T. 0.16 min

Lab File: VF061967.D

Acq: 15 Mar 2019 18:08

Instrument :

MSVOA_F

ClientSampleId :

SI-1(9-9.5)

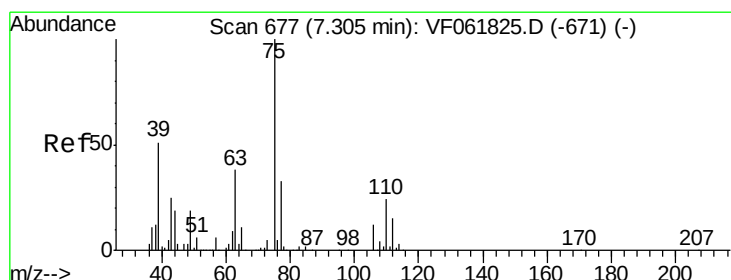
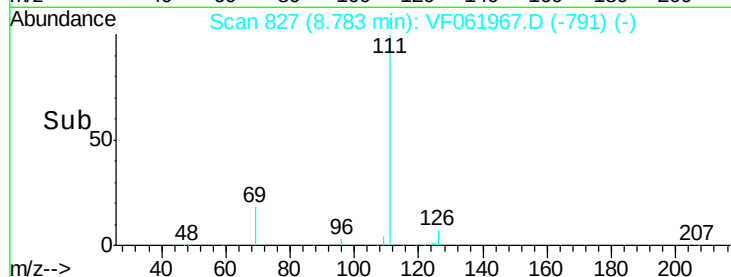
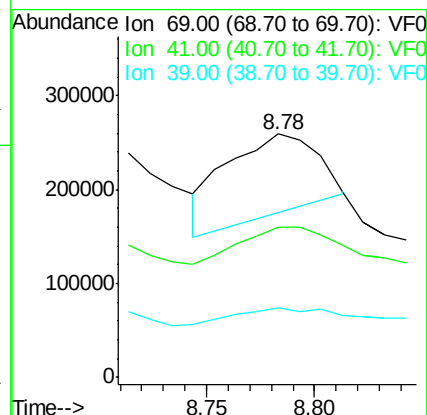
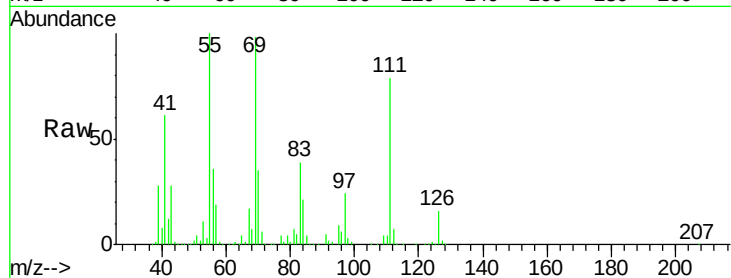
Tot Ion: 69 Resp: 256444

Ion Ratio Lower Upper

69 100

41 61.9 53.9 80.9

39 28.4 28.3 42.5



#58

2-Chloroethyl Vinyl ether

Concen: 4.351 ug/l

RT: 7.31 min Scan# 678

Delta R.T. 0.01 min

Lab File: VF061967.D

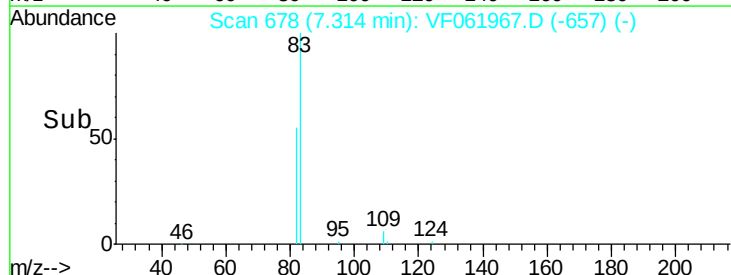
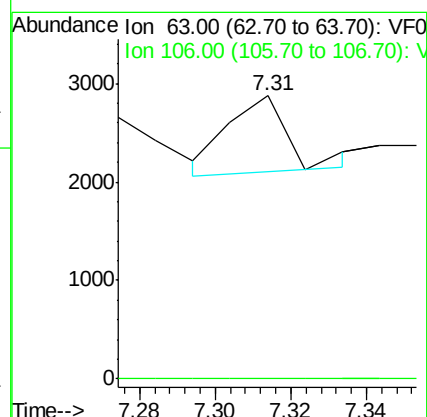
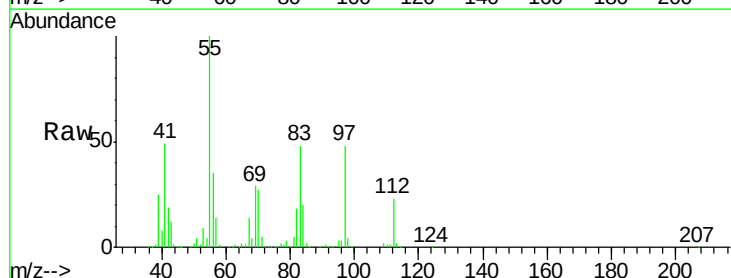
Acq: 15 Mar 2019 18:08

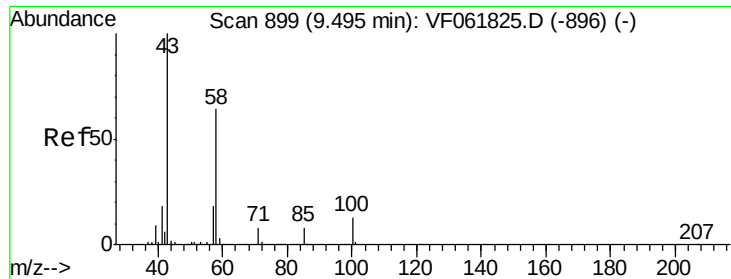
Tgt Ion: 63 Resp: 880

Ion Ratio Lower Upper

63 100

106 0.0 24.3 36.5#

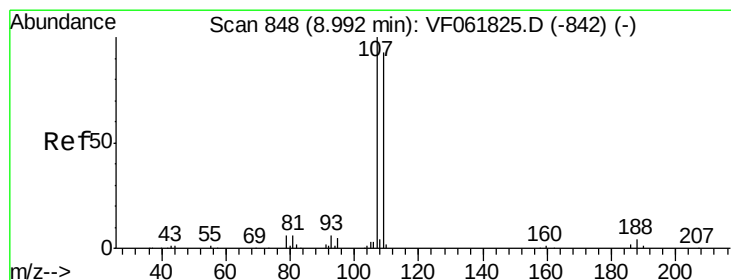
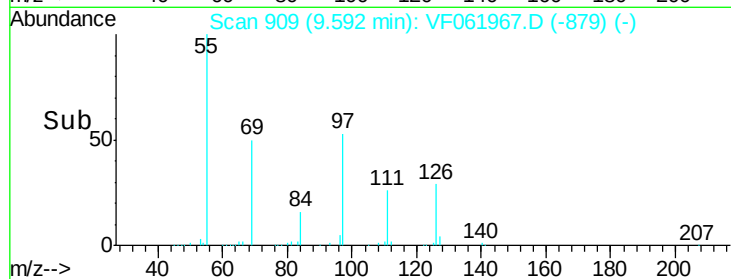
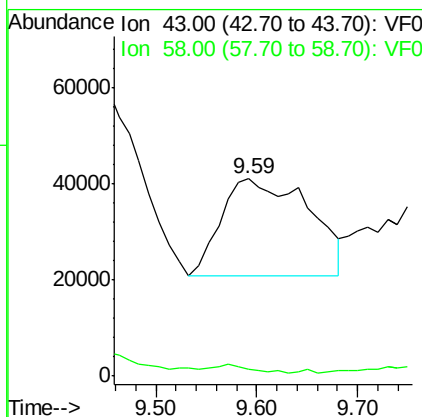
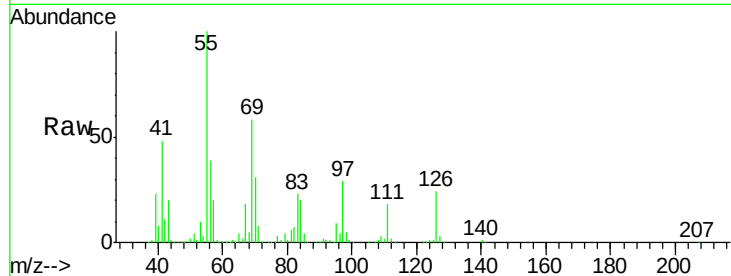




#59
2-Hexanone
Concen: 185.717 ug/l
RT: 9.59 min Scan# 909
Delta R.T. 0.10 min
Lab File: VF061967.D
Acq: 15 Mar 2019 18:08

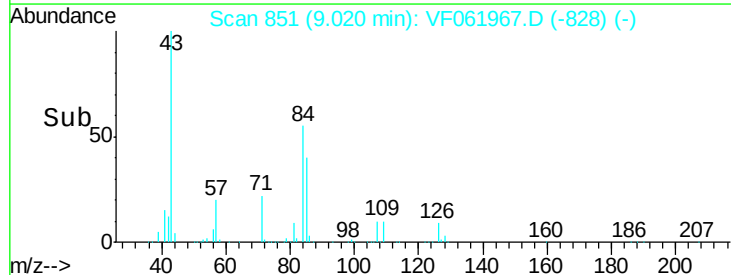
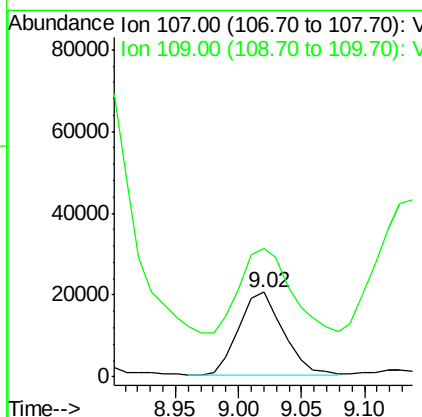
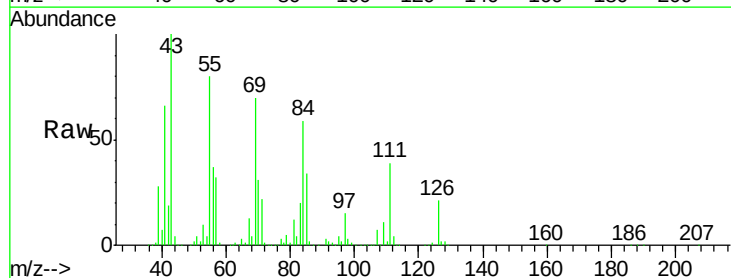
Instrument :
MSVOA_F
ClientSampleId :
SI-1(9-9.5)

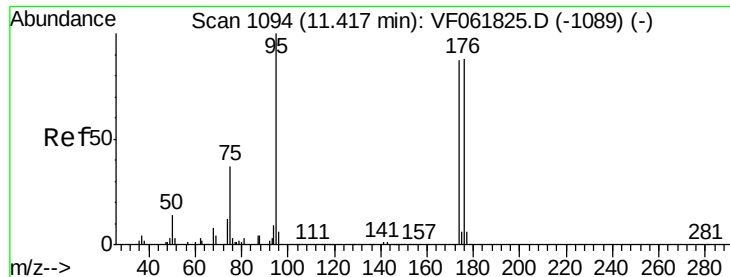
Tot Ion: 43 Resp: 122006
Ion Ratio Lower Upper
43 100
58 3.8 28.8 86.4#



#61
1,2-Dibromoethane
Concen: 39.698 ug/l
RT: 9.02 min Scan# 851
Delta R.T. 0.03 min
Lab File: VF061967.D
Acq: 15 Mar 2019 18:08

Tgt Ion:107 Resp: 49530
Ion Ratio Lower Upper
107 100
109 151.6 74.6 112.0#





#62

4-Bromofluorobenzene

Concen: 97.011 ug/l

RT: 11.44 min Scan# 1096

Delta R.T. 0.02 min

Lab File: VF061967.D

Acq: 15 Mar 2019 18:08

Instrument :

MSVOA_F

ClientSampleId :

SI-1(9-9.5)

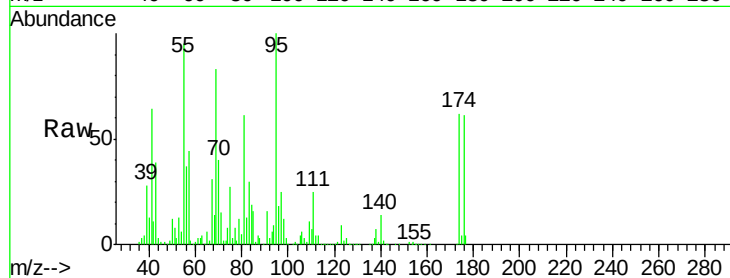
Tot Ion: 95 Resp: 212508

Ion Ratio Lower Upper

95 100

174 61.6 0.0 174.0

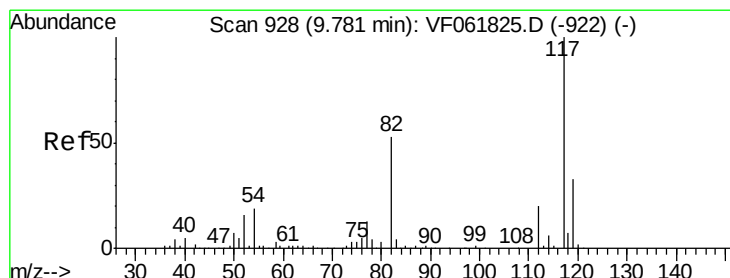
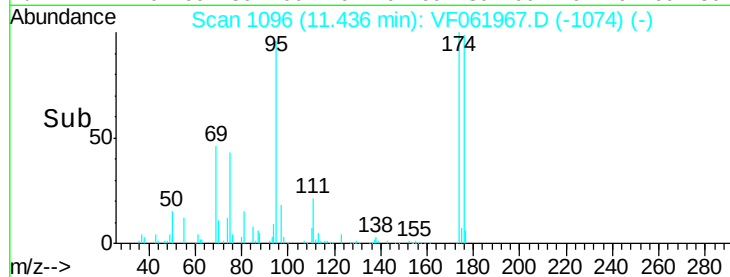
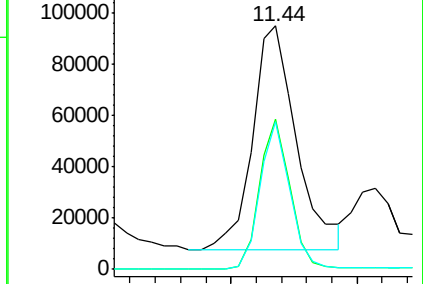
176 60.8 0.0 175.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.81 min Scan# 931

Delta R.T. 0.03 min

Lab File: VF061967.D

Acq: 15 Mar 2019 18:08

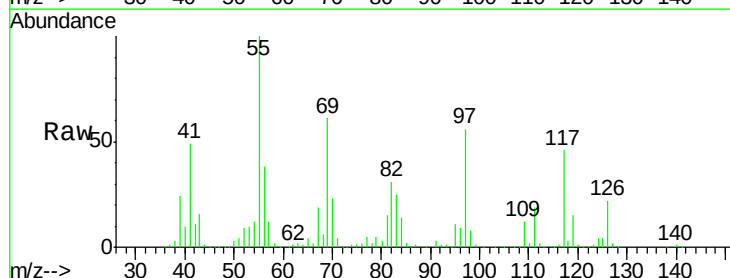
Tgt Ion: 117 Resp: 280739

Ion Ratio Lower Upper

117 100

82 67.5 42.6 63.8#

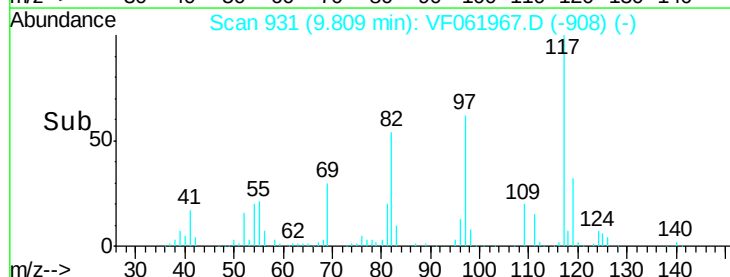
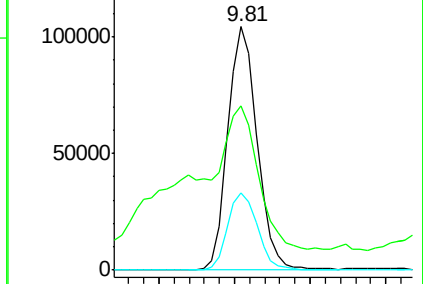
119 31.8 26.0 39.0

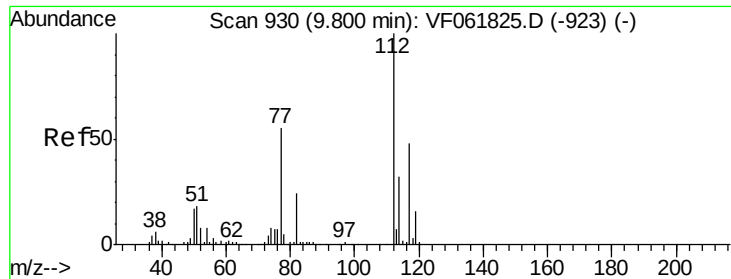


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V

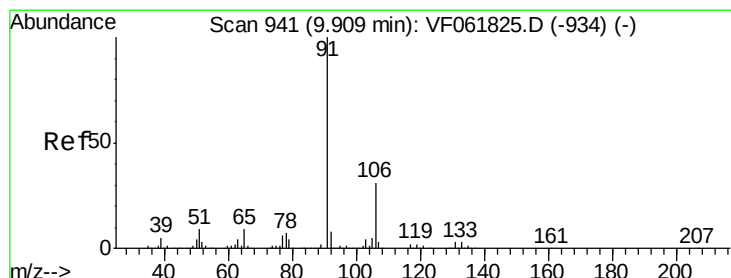
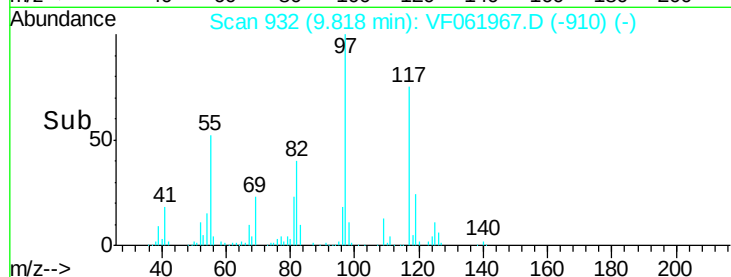
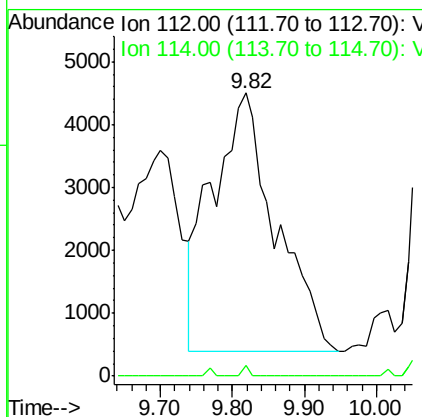
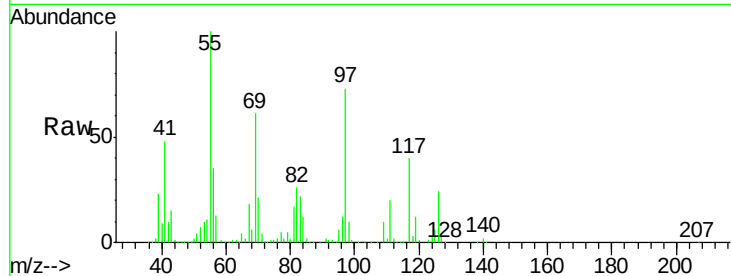




#65
Chlorobenzene
Concen: 4.667 ug/l
RT: 9.82 min Scan# 932
Delta R.T. 0.02 min
Lab File: VF061967.D
Acq: 15 Mar 2019 18:08

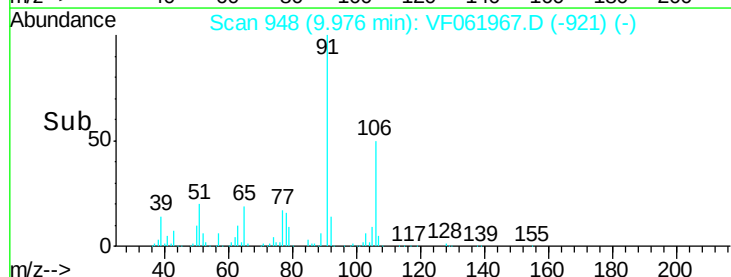
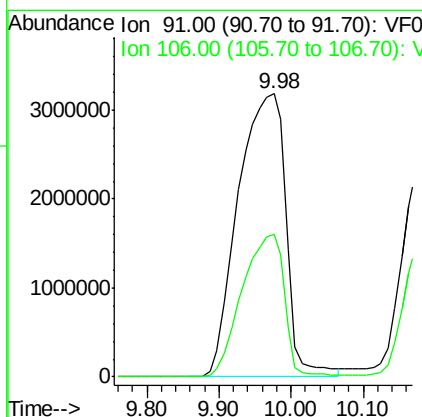
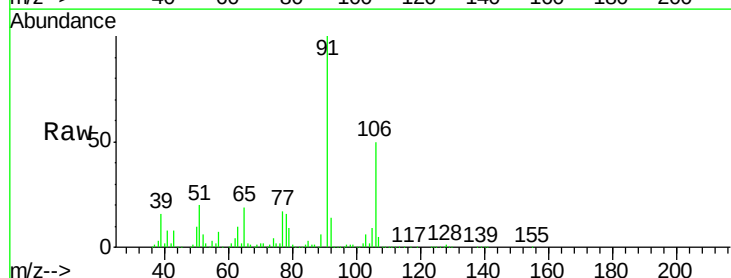
Instrument :
MSVOA_F
ClientSampleId :
SI-1(9-9.5)

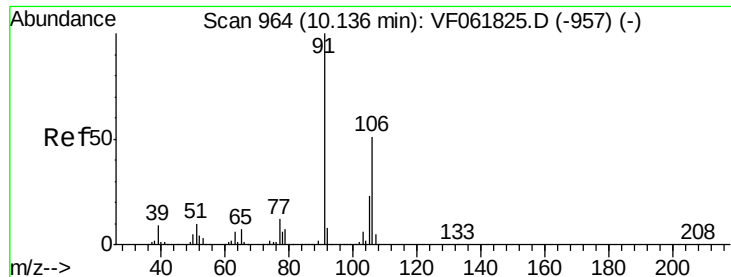
Tot Ion:112 Resp: 25172
Ion Ratio Lower Upper
112 100
114 3.8 25.5 38.3#



#67
Ethyl Benzene
Concen: 1642.680 ug/l
RT: 9.98 min Scan# 948
Delta R.T. 0.07 min
Lab File: VF061967.D
Acq: 15 Mar 2019 18:08

Tgt Ion: 91 Resp:14685071
Ion Ratio Lower Upper
91 100
106 50.4 25.0 37.4#

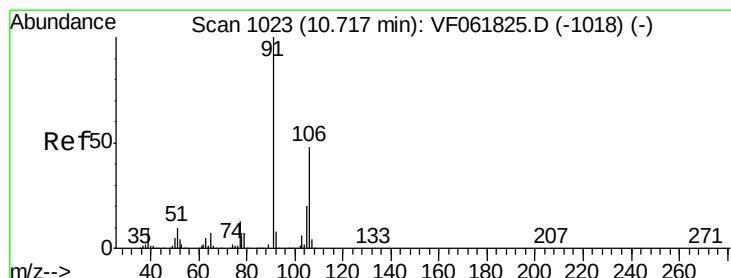
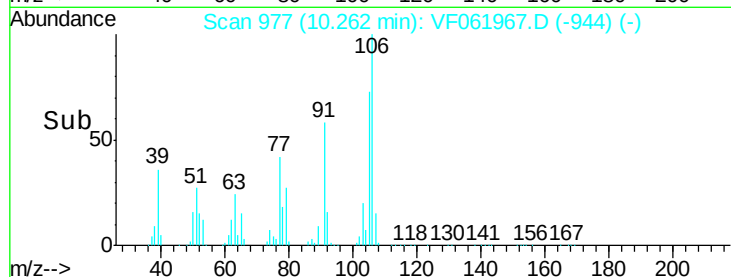
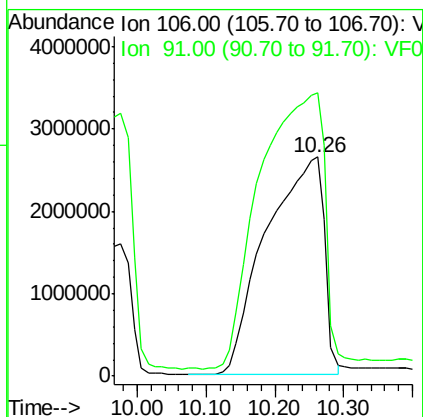
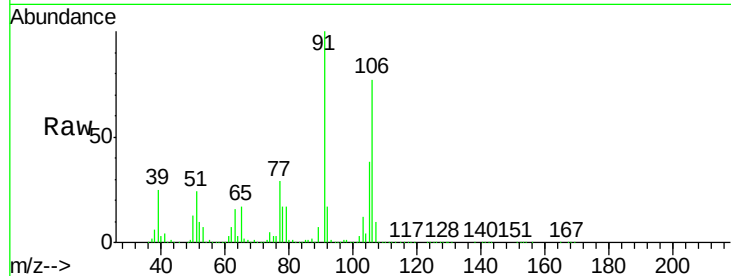




#68
m/p-Xylenes
Concen: 4496.432 ug/l
RT: 10.26 min Scan# 977
Delta R.T. 0.13 min
Lab File: VF061967.D
Acq: 15 Mar 2019 18:08

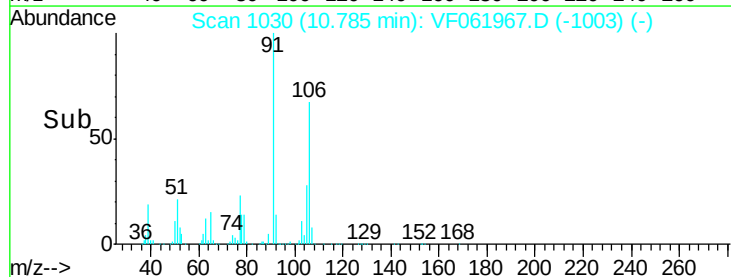
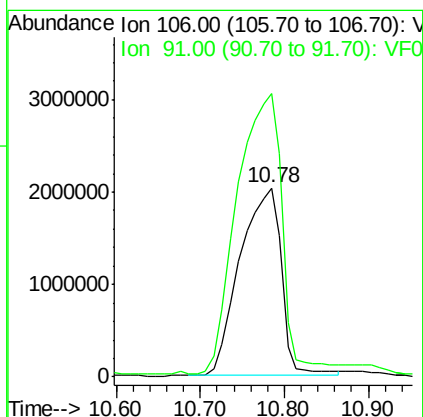
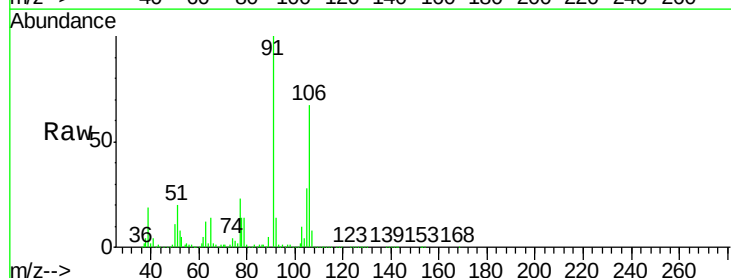
Instrument :
MSVOA_F
ClientSampleId :
SI-1(9-9.5)

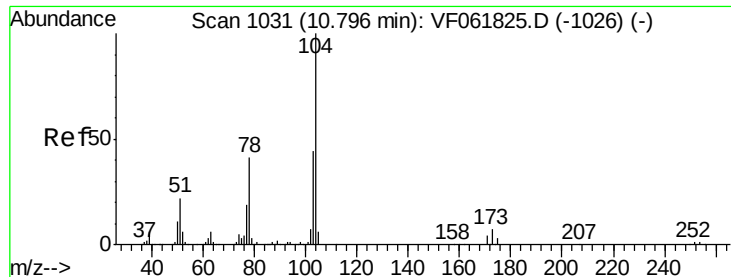
Tot Ion:106 Resp:15398846
Ion Ratio Lower Upper
106 100
91 129.1 157.5 236.3#



#69
o-Xylene
Concen: 1901.615 ug/l
RT: 10.78 min Scan# 1030
Delta R.T. 0.07 min
Lab File: VF061967.D
Acq: 15 Mar 2019 18:08

Tgt Ion:106 Resp: 7012629
Ion Ratio Lower Upper
106 100
91 150.0 103.5 310.3





#70

Stvrene

Concen: 68.634 ug/l

RT: 10.78 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VF061967.D

Acq: 15 Mar 2019 18:08

Instrument :

MSVOA_F

ClientSampleId :

SI-1(9-9.5)

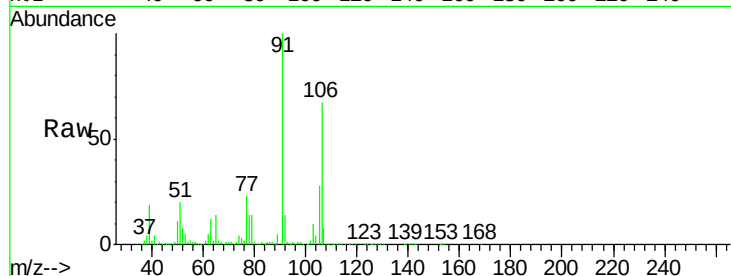
Tot Ion:104 Resp: 356198

Ion Ratio Lower Upper

104 100

78 389.3 33.3 49.9#

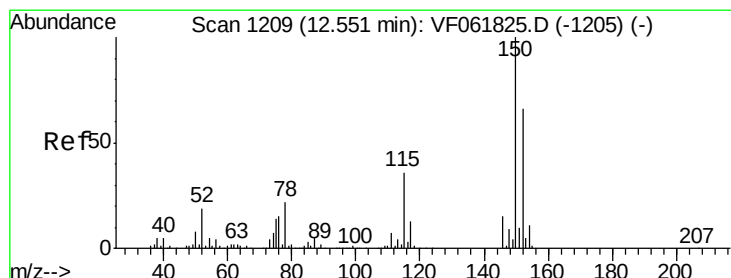
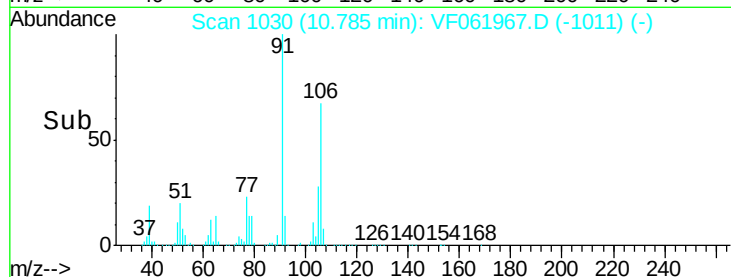
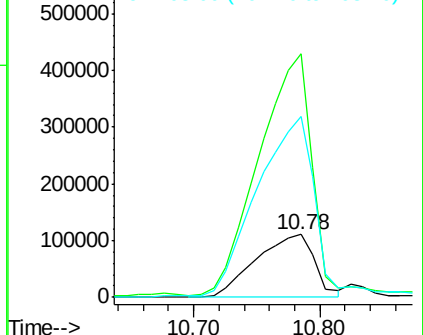
103 289.9 35.4 53.0#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VF0

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.57 min Scan# 1211

Delta R.T. 0.02 min

Lab File: VF061967.D

Acq: 15 Mar 2019 18:08

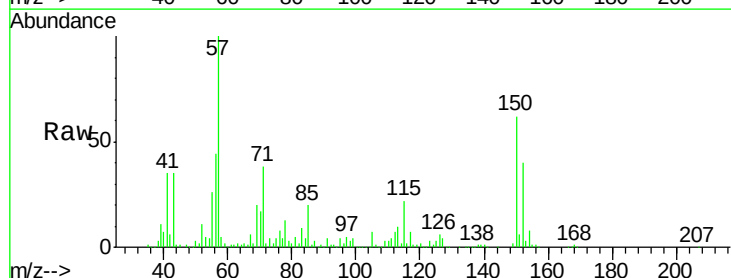
Tgt Ion:152 Resp: 122856

Ion Ratio Lower Upper

152 100

115 54.9 27.7 83.1

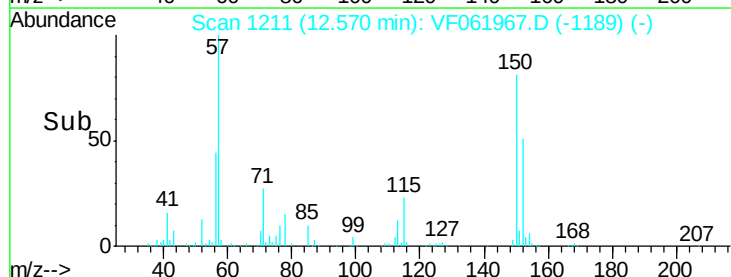
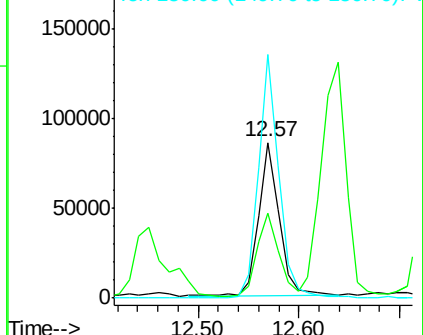
150 156.3 0.0 304.2

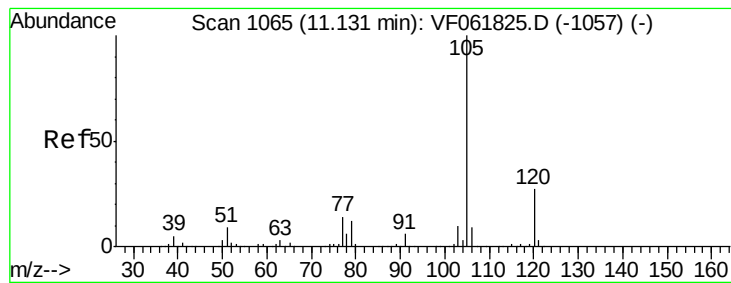


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 253.260 ug/l

RT: 11.15 min Scan# 1067

Delta R.T. 0.02 min

Lab File: VF061967.D

Acq: 15 Mar 2019 18:08

Instrument :

MSVOA_F

ClientSampleId :

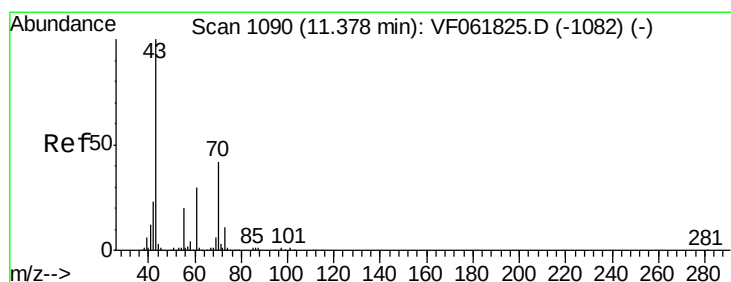
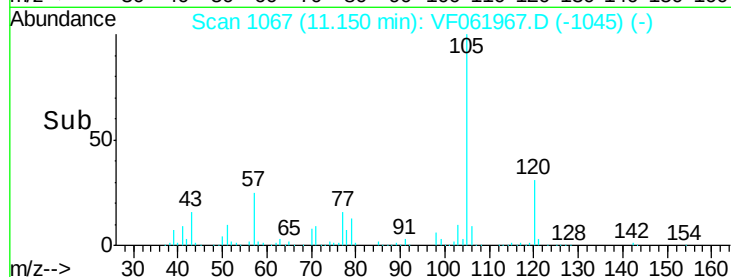
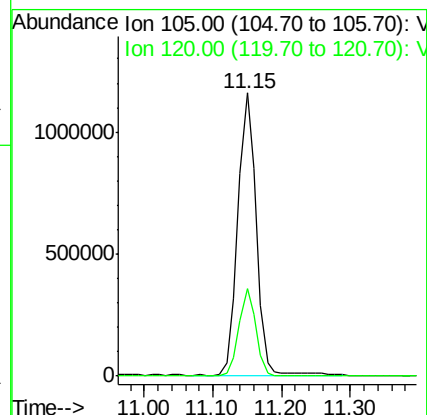
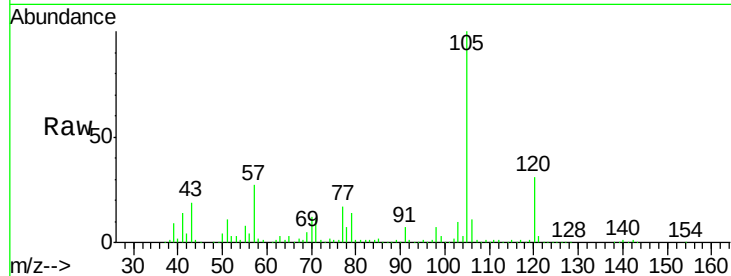
SI-1(9-9.5)

Tot Ion:105 Resp: 2142061

Ion Ratio Lower Upper

105 100

120 30.8 13.7 41.0



#74

N-ethyl acetate

Concen: 57.041 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.04 min

Lab File: VF061967.D

Acq: 15 Mar 2019 18:08

Tgt Ion: 43 Resp: 111068

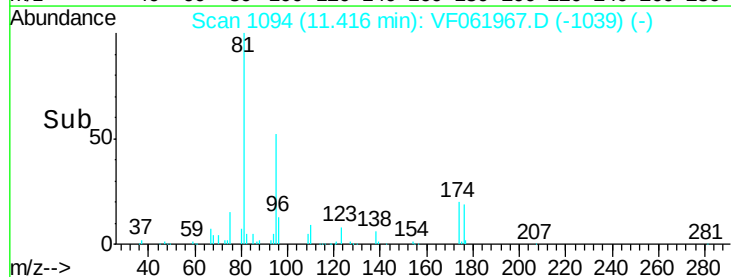
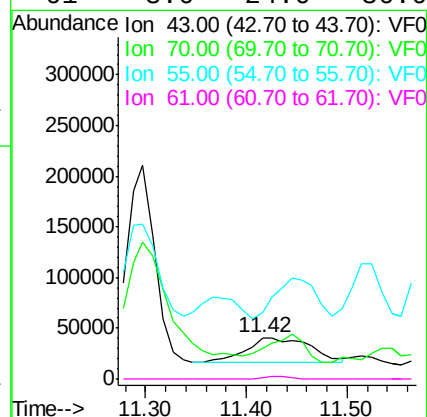
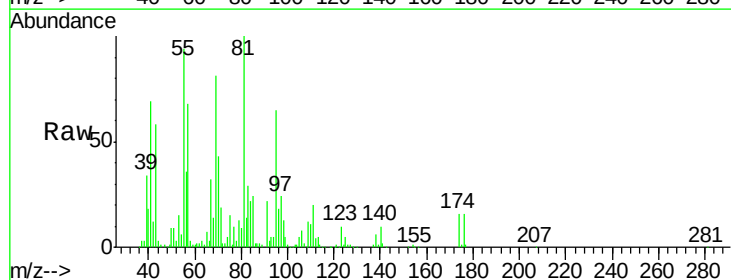
Ion Ratio Lower Upper

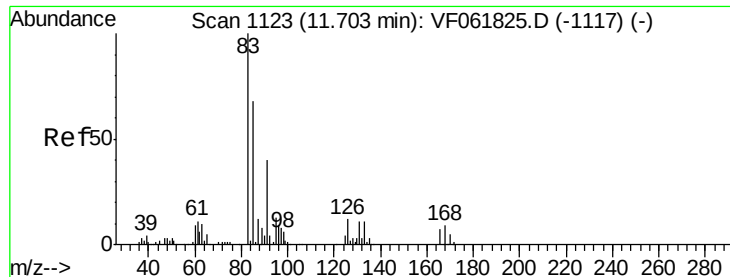
43 100

70 75.0 33.4 50.0#

55 162.3 16.3 24.5#

61 3.0 24.0 36.0#





#75

1,1,2,2-Tetrachloroethane

Concen: 95.002 ug/l

RT: 11.69 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VF061967.D

Acq: 15 Mar 2019 18:08

Instrument :

MSVOA_F

ClientSampleId :

SI-1(9-9.5)

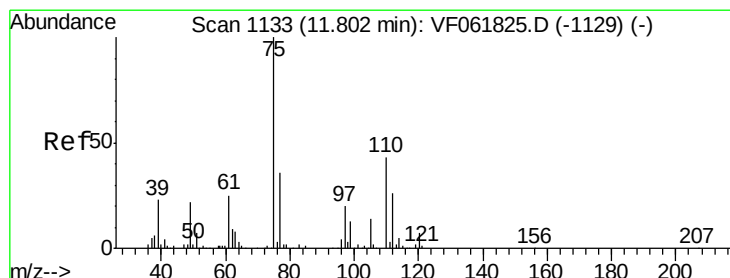
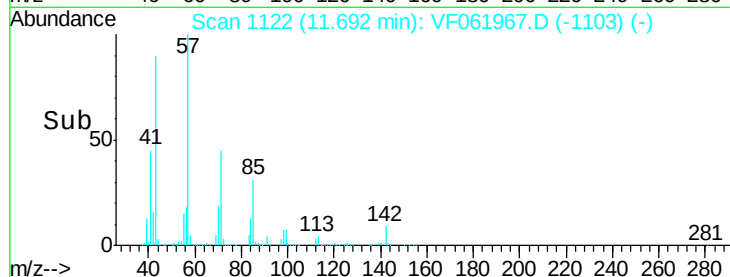
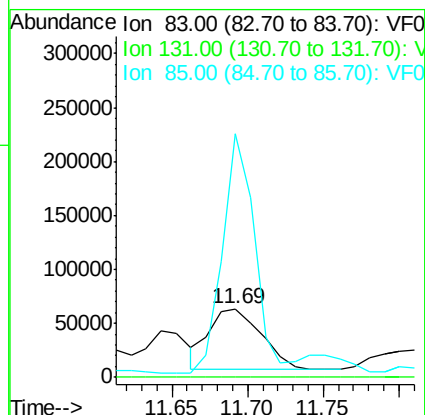
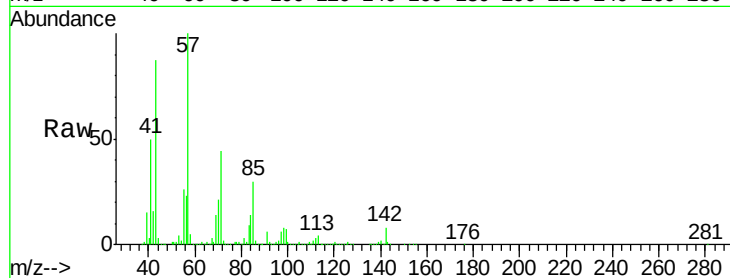
Tot Ion: 83 Resp: 133549

Ion Ratio Lower Upper

83 100

131 0.0 5.5 16.7#

85 356.4 34.2 102.6#



#76

1,2,3-Trichloropropane

Concen: 160.352 ug/l

RT: 11.76 min Scan# 1129

Delta R.T. -0.04 min

Lab File: VF061967.D

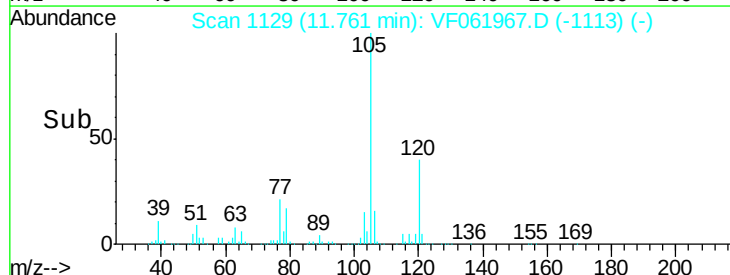
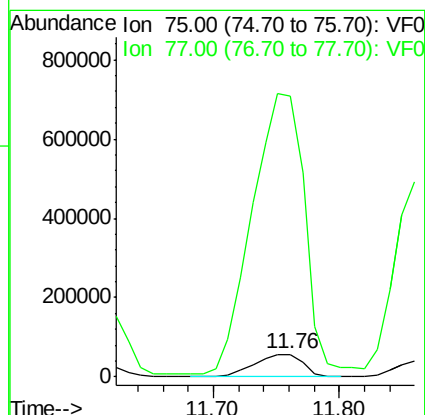
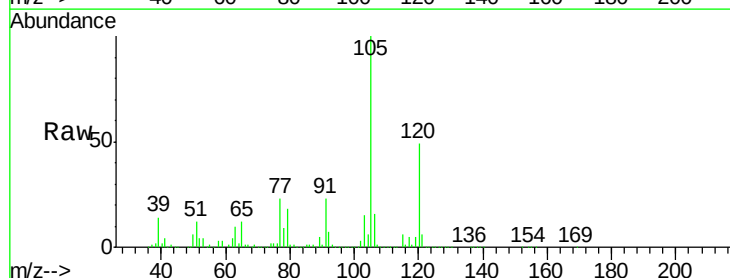
Acq: 15 Mar 2019 18:08

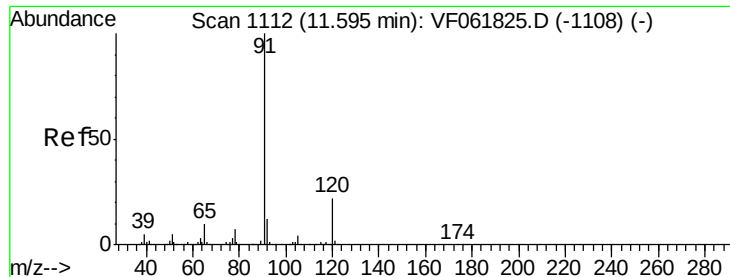
Tgt Ion: 75 Resp: 153846

Ion Ratio Lower Upper

75 100

77 1242.8 18.1 54.4#





#78

n-propylbenzene

Concen: 567.602 ug/l

RT: 11.62 min Scan# 1115

Delta R.T. 0.03 min

Lab File: VF061967.D

Acq: 15 Mar 2019 18:08

Instrument :

MSVOA_F

ClientSampleId :

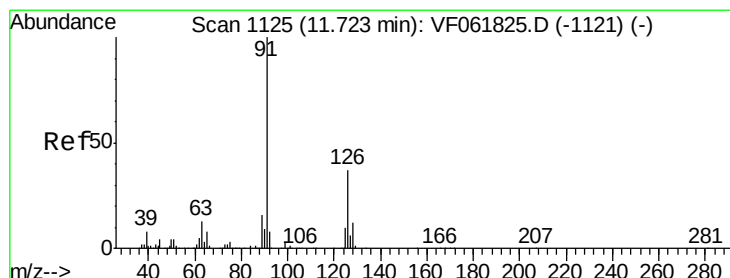
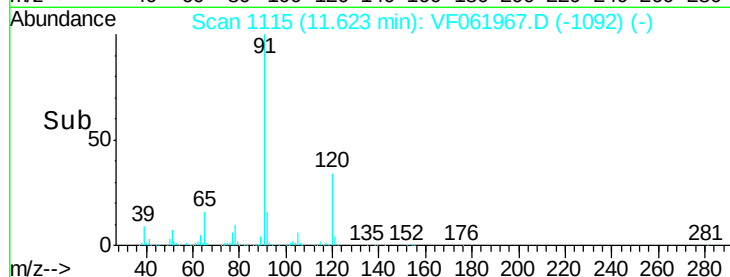
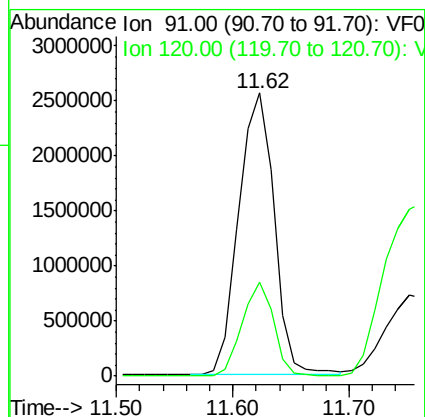
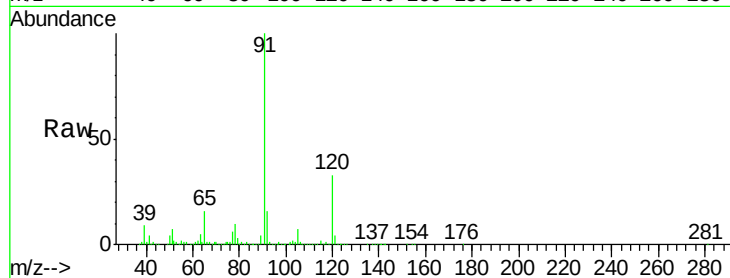
SI-1(9-9.5)

Tot Ion: 91 Resp: 5421471

Ion Ratio Lower Upper

91 100

120 33.4 11.1 33.1#



#79

2-Chlorotoluene

Concen: 367.670 ug/l

RT: 11.75 min Scan# 1128

Delta R.T. 0.03 min

Lab File: VF061967.D

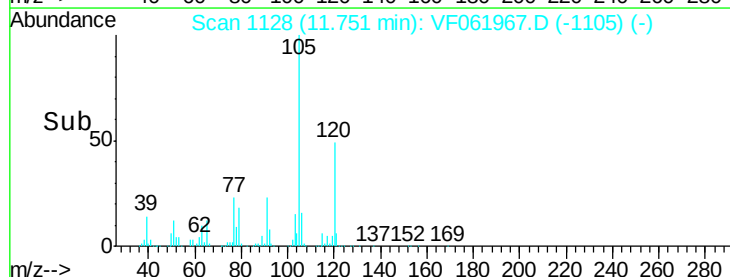
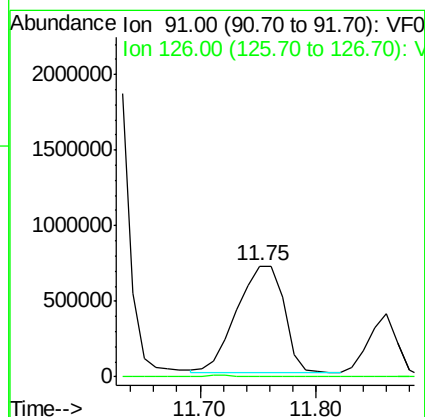
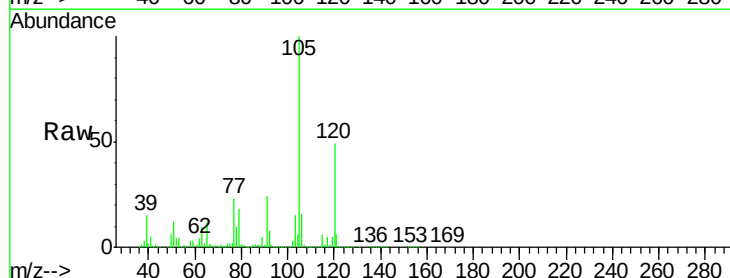
Acq: 15 Mar 2019 18:08

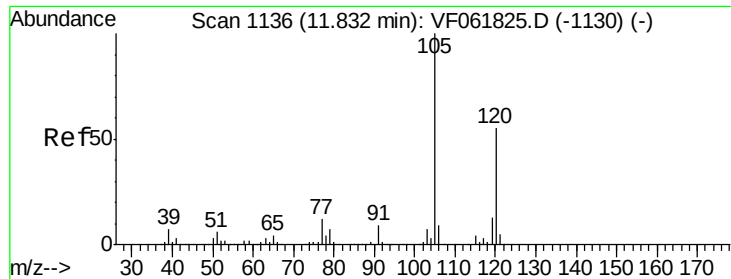
Tgt Ion: 91 Resp: 2007747

Ion Ratio Lower Upper

91 100

126 0.1 18.1 54.4#





#80

1,3,5-Trimethylbenzene

Concen: 762.186 ug/l

RT: 11.86 min Scan# 1139

Delta R.T. 0.03 min

Lab File: VF061967.D

Acq: 15 Mar 2019 18:08

Instrument :

MSVOA_F

ClientSampleId :

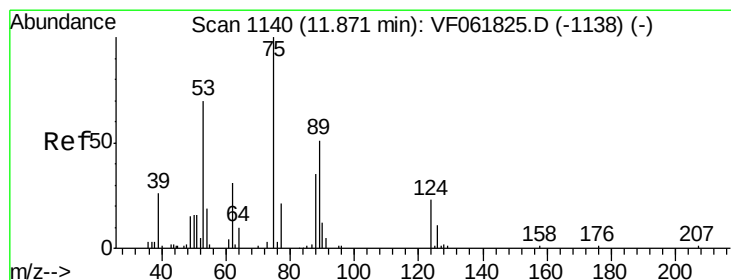
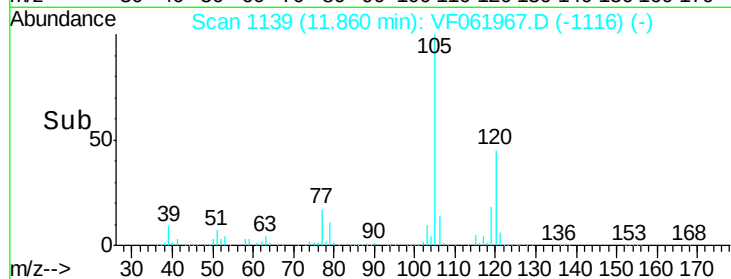
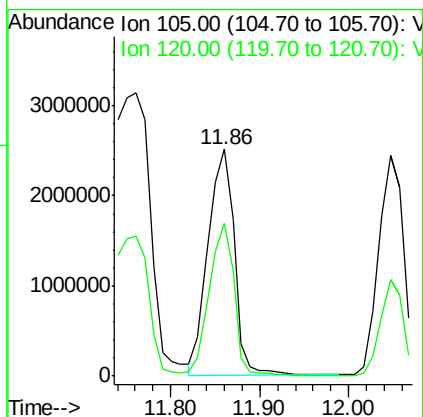
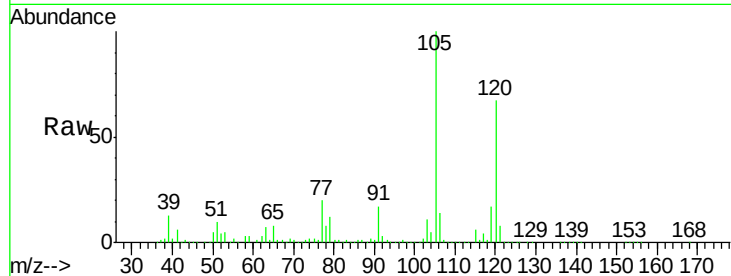
SI-1(9-9.5)

Tot Ion:105 Resp: 5175785

Ion Ratio Lower Upper

105 100

120 67.2 27.4 82.2



#81

trans-1,4-Dichloro-2-butene

Concen: 158.365 ug/l

RT: 11.86 min Scan# 1139

Delta R.T. -0.01 min

Lab File: VF061967.D

Acq: 15 Mar 2019 18:08

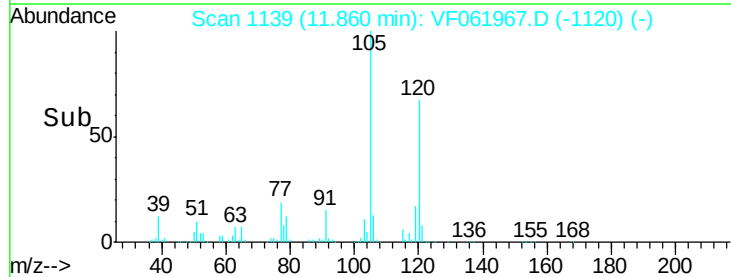
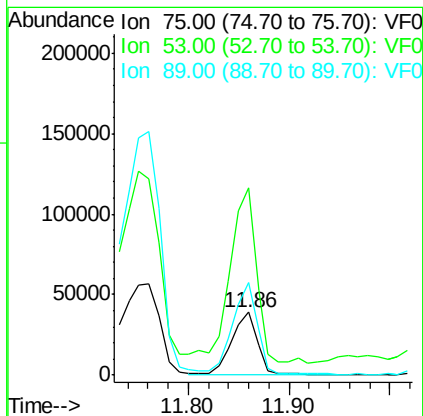
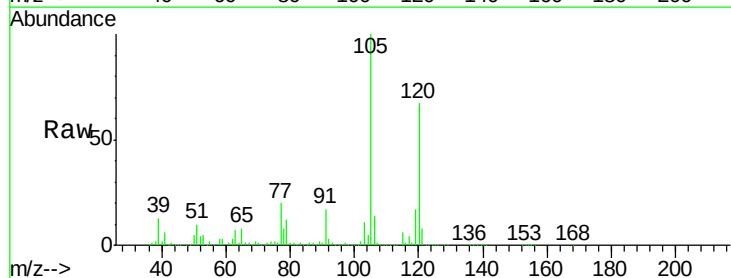
Tgt Ion: 75 Resp: 69477

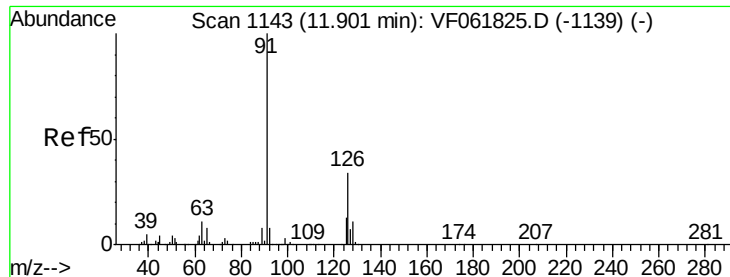
Ion Ratio Lower Upper

75 100

53 297.0 58.6 88.0#

89 146.6 41.4 62.0#





#82

4-Chlorotoluene

Concen: 125.952 ug/l

RT: 11.86 min Scan# 1139

Delta R.T. -0.04 min

Lab File: VF061967.D

Acq: 15 Mar 2019 18:08

Instrument :

MSVOA_F

ClientSampleId :

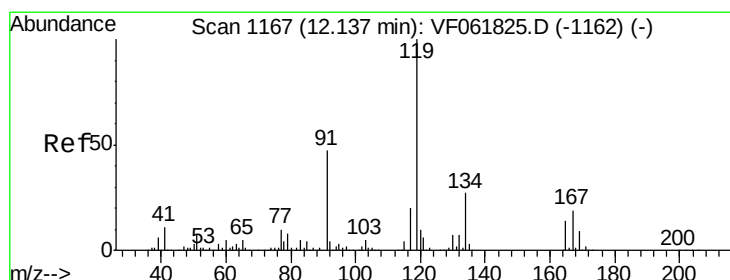
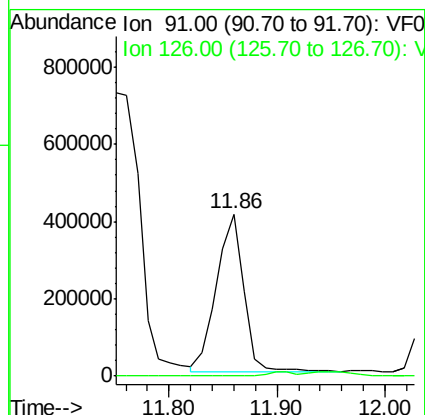
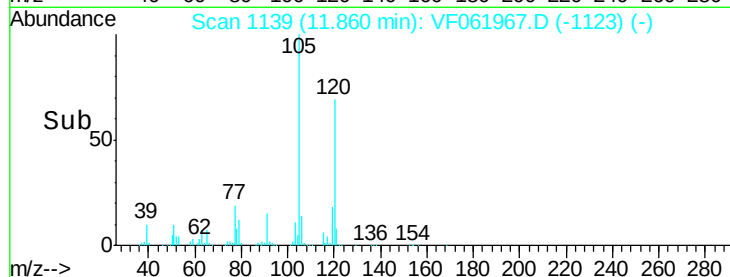
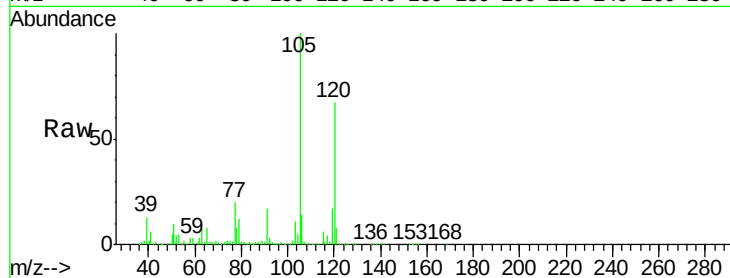
SI-1(9-9.5)

Tot Ion: 91 Resp: 703508

Ion Ratio Lower Upper

91 100

126 0.1 17.0 50.9#



#83

tert-Butylbenzene

Concen: 14.717 ug/l

RT: 12.05 min Scan# 1158

Delta R.T. -0.09 min

Lab File: VF061967.D

Acq: 15 Mar 2019 18:08

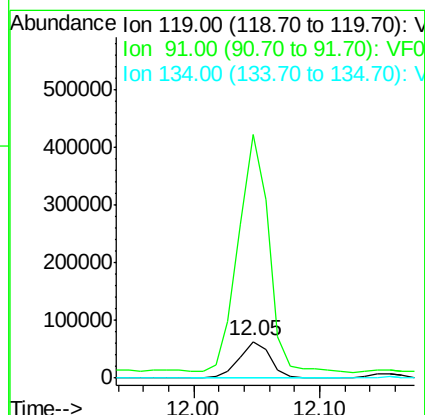
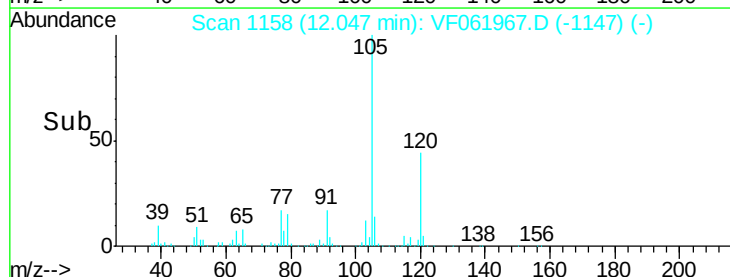
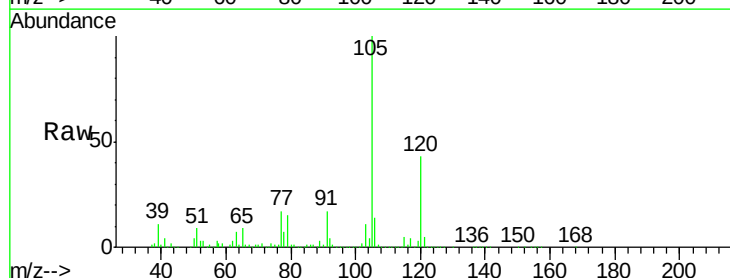
Tgt Ion: 119 Resp: 106119

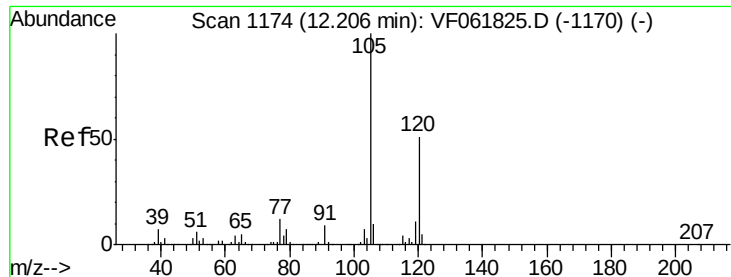
Ion Ratio Lower Upper

119 100

91 660.5 23.5 70.5#

134 0.0 13.3 39.8#





#84

1,2,4-Trimethylbenzene

Concen: 1426.391 ug/l

RT: 12.25 min Scan# 1179

Delta R.T. 0.05 min

Lab File: VF061967.D

Acq: 15 Mar 2019 18:08

Instrument :

MSVOA_F

ClientSampleId :

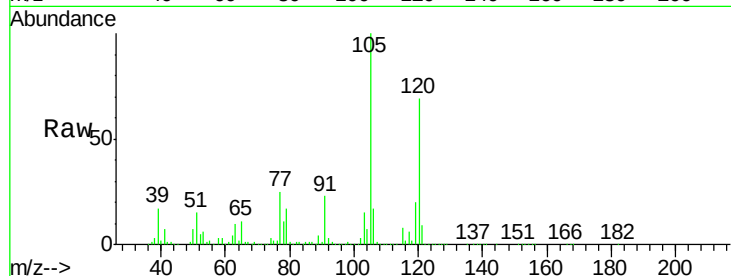
SI-1(9-9.5)

Tot Ion:105 Resp: 9495434

Ion Ratio Lower Upper

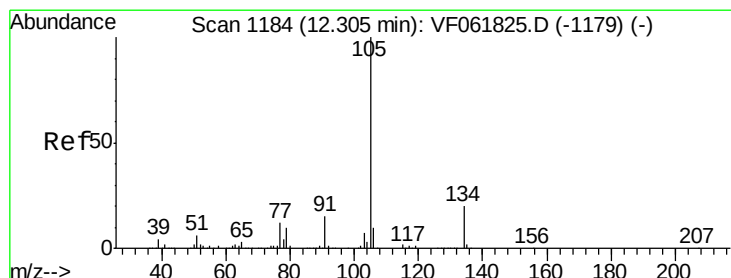
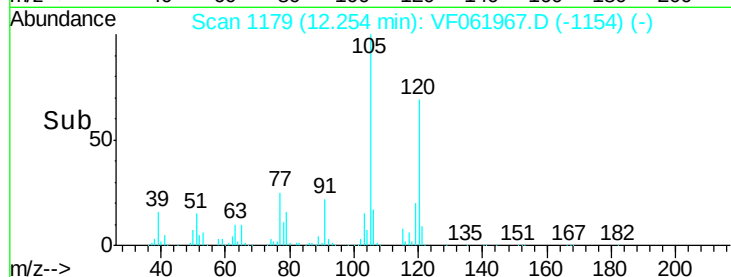
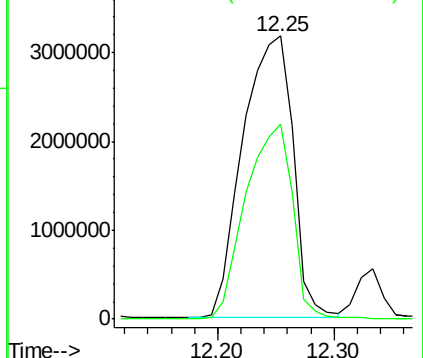
105 100

120 69.1 25.8 77.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 88.878 ug/l

RT: 12.33 min Scan# 1187

Delta R.T. 0.03 min

Lab File: VF061967.D

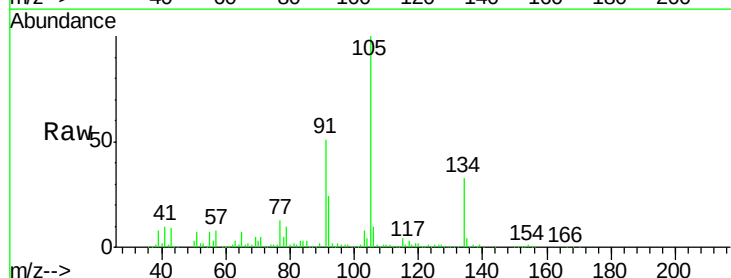
Acq: 15 Mar 2019 18:08

Tgt Ion:105 Resp: 833985

Ion Ratio Lower Upper

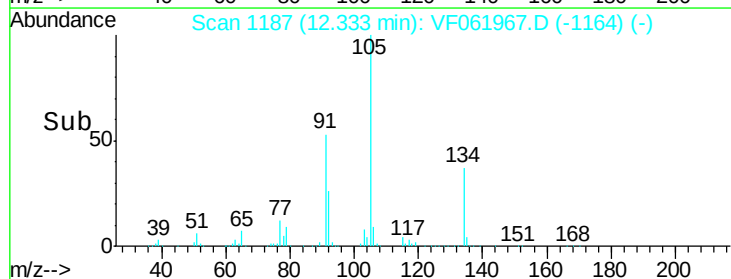
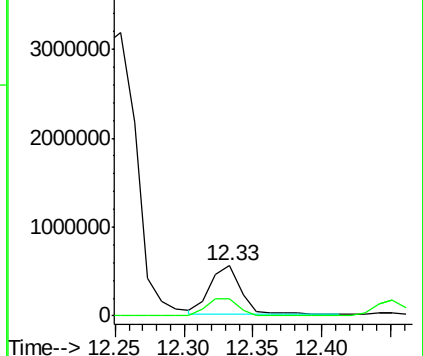
105 100

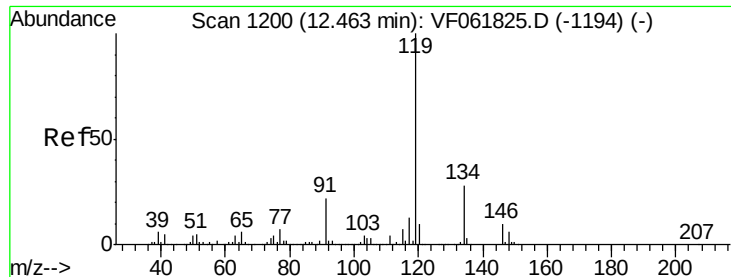
134 33.3 9.8 29.5#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

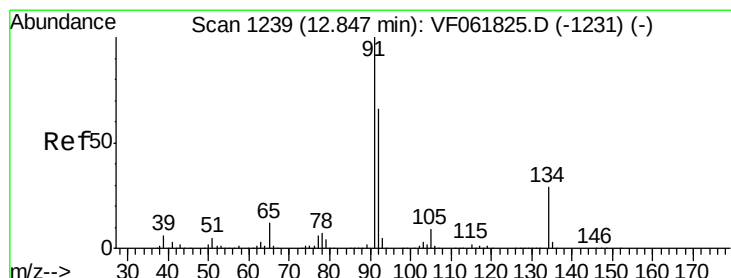
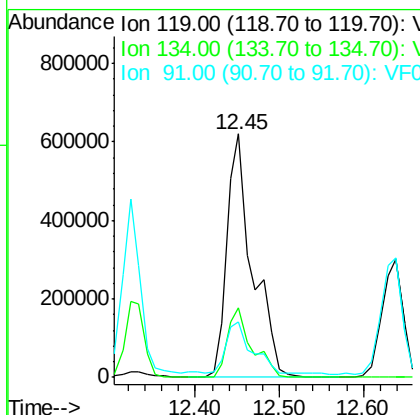
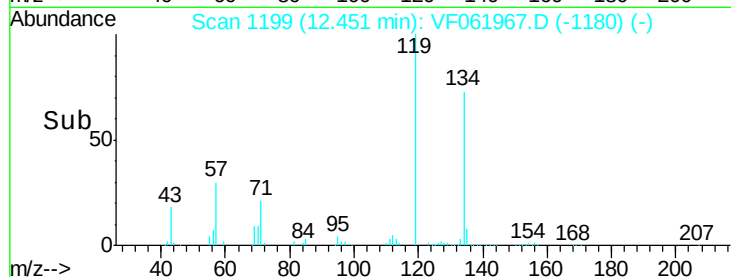
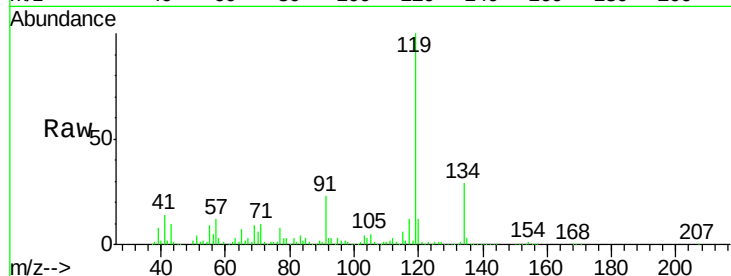




#86
 p-Isopropyltoluene
 Concen: 163.074 ug/l
 RT: 12.45 min Scan# 1199
 Delta R.T. -0.01 min
 Lab File: VF061967.D
 Acq: 15 Mar 2019 18:08

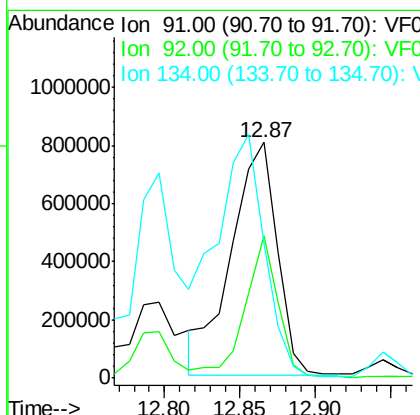
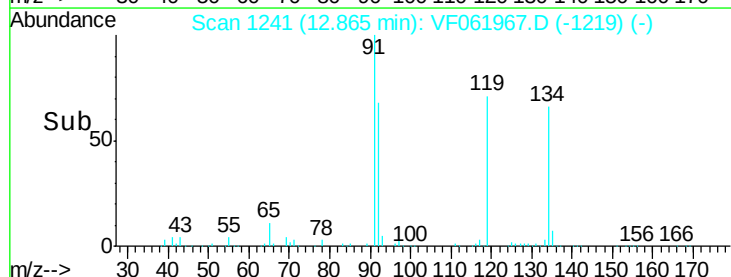
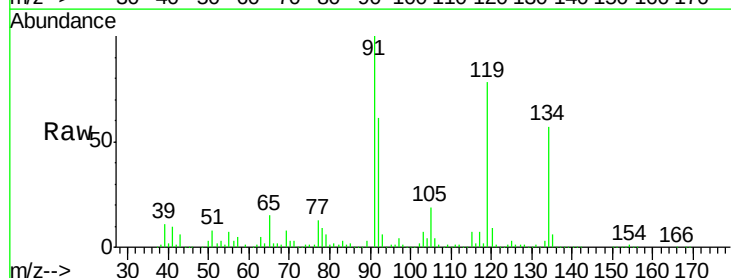
Instrument :
 MSVOA_F
 ClientSampleId :
 SI-1(9-9.5)

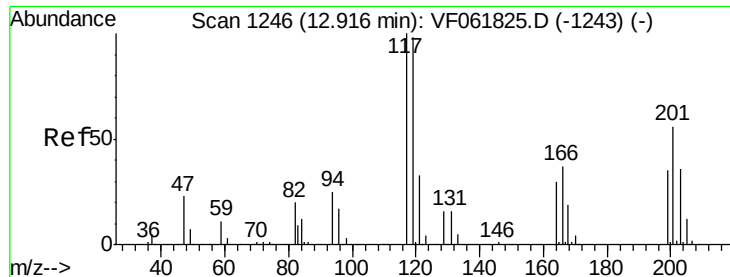
Tot Ion:119 Resp: 1300702
 Ion Ratio Lower Upper
 119 100
 134 28.7 14.0 42.0
 91 23.0 11.1 33.3



#89
 n-Butylbenzene
 Concen: 222.596 ug/l
 RT: 12.87 min Scan# 1241
 Delta R.T. 0.02 min
 Lab File: VF061967.D
 Acq: 15 Mar 2019 18:08

Tgt Ion: 91 Resp: 1696775
 Ion Ratio Lower Upper
 91 100
 92 60.6 32.9 98.6
 134 57.0 14.5 43.6#





#90

Hexachloroethane

Concen: 23.940 ug/l

RT: 12.94 min Scan# 1249

Delta R.T. 0.03 min

Lab File: VF061967.D

Acq: 15 Mar 2019 18:08

Instrument :

MSVOA_F

ClientSampleId :

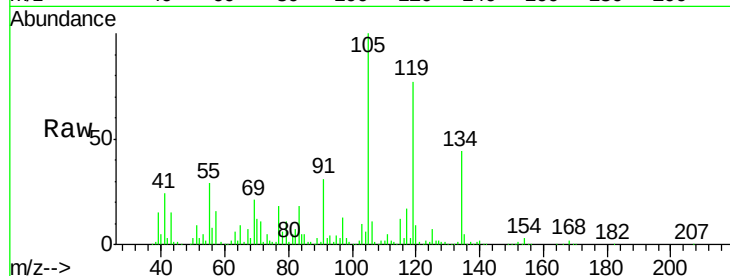
SI-1(9-9.5)

Tot Ion:117 Resp: 45962

Ion Ratio Lower Upper

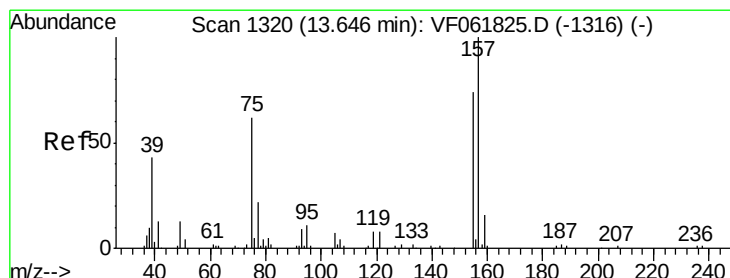
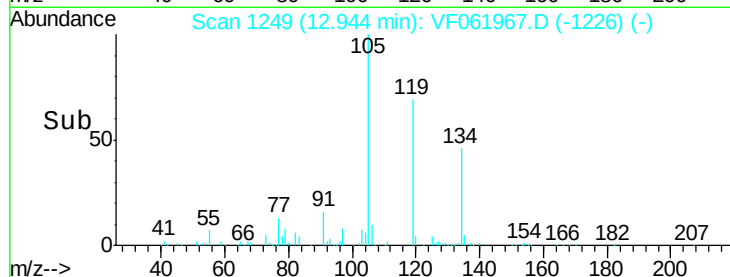
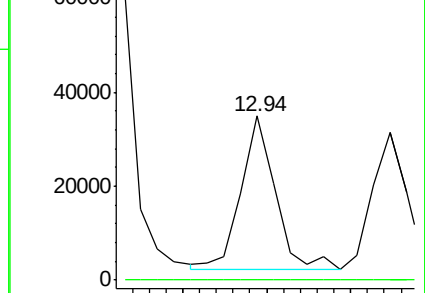
117 100

201 0.0 27.8 83.4#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 23.934 ug/l

RT: 13.62 min Scan# 1318

Delta R.T. -0.02 min

Lab File: VF061967.D

Acq: 15 Mar 2019 18:08

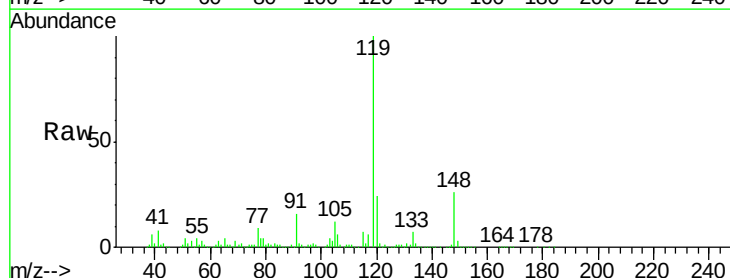
Tgt Ion: 75 Resp: 5324

Ion Ratio Lower Upper

75 100

155 6.8 59.8 179.4#

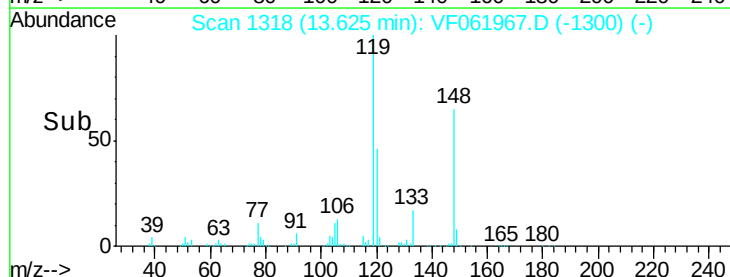
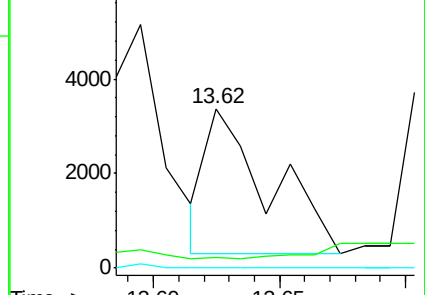
157 0.0 81.2 243.4#

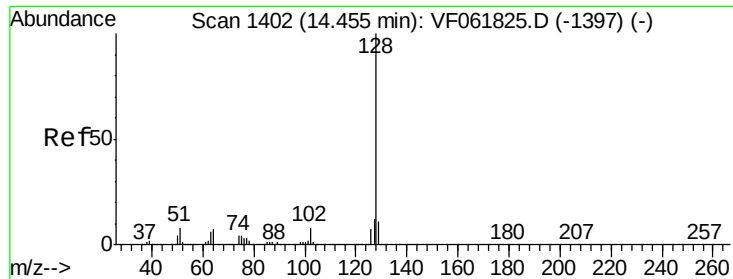


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

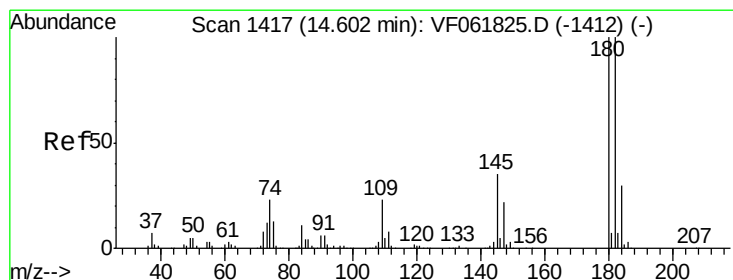
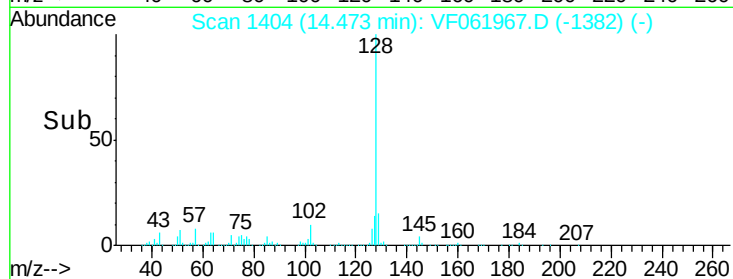
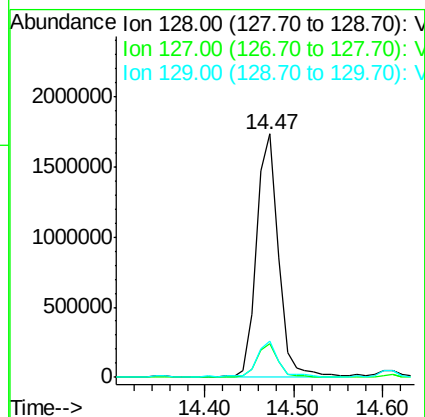
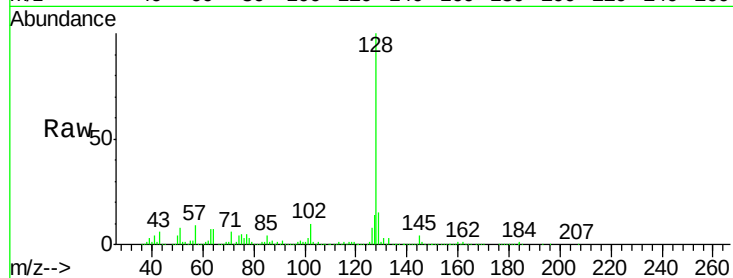




#95
Naphthalene
Concen: 636.156 ug/l
RT: 14.47 min Scan# 1404
Delta R.T. 0.02 min
Lab File: VF061967.D
Acq: 15 Mar 2019 18:08

Instrument :
MSVOA_F
ClientSampleId :
SI-1(9-9.5)

Tot Ion:128 Resp: 2908872
Ion Ratio Lower Upper
128 100
127 14.1 9.3 13.9#
129 14.8 8.8 13.2#



#96
1,2,3-Trichlorobenzene
Concen: 1.133 ug/l
RT: 14.65 min Scan# 1422
Delta R.T. 0.05 min
Lab File: VF061967.D
Acq: 15 Mar 2019 18:08

Tgt Ion:180 Resp: 2686
Ion Ratio Lower Upper
180 100
182 86.7 50.2 150.7
145 2173.1 17.5 52.5#

