

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031419\
 Data File : VF061939.D
 Acq On : 14 Mar 2019 15:28
 Operator : VA/AP
 Sample : VF0314SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0314SBS01

Quant Time: Mar 15 01:40:59 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	4.86	168	298844	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.59	114	468987	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.76	117	384948	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.54	152	207315	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.83	65	116426	53.50	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	107.00%	
35) Dibromofluoromethane	4.10	113	168482	51.48	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	102.96%	
50) Toluene-d8	7.54	98	489241	50.29	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	100.58%	
62) 4-Bromofluorobenzene	11.40	95	187478	49.20	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	98.40%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.97	85	85104	23.196	ug/l	93
3) Chloromethane	1.09	50	88041	24.760	ug/l	94
4) Vinyl Chloride	1.14	62	83754	24.813	ug/l	92
5) Bromomethane	1.32	94	57371	24.940	ug/l	97
6) Chloroethane	1.39	64	42097	26.237	ug/l	100
7) Trichlorofluoromethane	1.48	101	98558	23.907	ug/l	100
8) Diethyl Ether	1.63	74	21633	23.076	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	1.83	101	65834	23.516	ug/l	94
10) Methyl Iodide	1.90	142	127201m	23.876	ug/l	
11) Tert butyl alcohol	2.56	59	15811	127.998	ug/l #	84
12) 1,1-Dichloroethene	1.79	96	62317	24.382	ug/l	92
13) Acrolein	1.99	56	13191	84.276	ug/l	95
14) Allyl chloride	2.09	41	74623	26.503	ug/l	93
15) Acrylonitrile	2.94	53	48726	123.878	ug/l	97
16) Acetone	2.23	43	61177	134.197	ug/l	94
17) Carbon Disulfide	1.80	76	187689m	23.592	ug/l	
18) Methyl Acetate	2.35	43	26481m	30.095	ug/l	
19) Methyl tert-butyl Ether	2.43	73	105416	24.382	ug/l	97
20) Methylene Chloride	2.18	84	72718m	26.211	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	64532	26.827	ug/l	90
22) Diisopropyl ether	2.79	45	177667	24.257	ug/l	97
23) Vinyl Acetate	3.19	43	408182	124.749	ug/l	100
24) 1,1-Dichloroethane	2.86	63	108535	24.792	ug/l	99
25) 2-Butanone	4.33	43	116013	125.109	ug/l	100
26) 2,2-Dichloropropane	3.59	77	49804	25.484	ug/l	98
27) cis-1,2-Dichloroethene	3.47	96	78204	23.466	ug/l	97
28) Bromochloromethane	3.72	49	43340	22.711	ug/l #	97
29) Tetrahydrofuran	4.07	42	43361	108.426	ug/l	99
30) Chloroform	3.85	83	123567	24.711	ug/l	92
31) Cyclohexane	3.69	56	112310m	24.493	ug/l	
32) 1,1,1-Trichloroethane	4.08	97	64259	20.848	ug/l	96
36) 1,1-Dichloropropene	4.27	75	96616	21.809	ug/l	94
37) Ethyl Acetate	4.10	43	40401	21.727	ug/l	99
38) Carbon Tetrachloride	3.98	117	69191	22.063	ug/l	92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	115290	22.033	ug/l	99
40) Benzene	4.62	78	254859	22.009	ug/l	100
41) Methacrylonitrile	4.73	41	22337	21.925	ug/l #	86
42) 1,2-Dichloroethane	4.93	62	59605	20.655	ug/l	95
43) Isopropyl Acetate	6.95	43	46598	20.330	ug/l	93
44) Trichloroethene	5.49	130	79521	22.098	ug/l	96
45) 1,2-Dichloropropane	6.22	63	59831	21.728	ug/l	94
46) Dibromomethane	6.07	93	36344	20.972	ug/l	94
47) Bromodichloromethane	6.37	83	83473	21.802	ug/l #	92
48) Methyl methacrylate	6.71	41	28544	19.677	ug/l	96
49) 1,4-Dioxane	6.71	88	5252	396.056	ug/l #	81
51) 4-Methyl-2-Pentanone	8.25	43	176501	111.417	ug/l	95
52) Toluene	7.61	92	143298	20.918	ug/l	91
53) t-1,3-Dichloropropene	8.27	75	64058	20.269	ug/l	94
54) cis-1,3-Dichloropropene	7.29	75	93025	21.340	ug/l	98
55) 1,1,2-Trichloroethane	8.48	97	42240	21.401	ug/l	97
56) Ethyl methacrylate	8.61	69	47142	21.193	ug/l	95
57) 1,3-Dichloropropane	8.85	76	72109	22.340	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.29	63	36336	103.262	ug/l	93
59) 2-Hexanone	9.49	43	130459	114.154	ug/l	99
60) Dibromochloromethane	8.71	129	58133	20.665	ug/l	100
61) 1,2-Dibromoethane	8.97	107	44500	20.502	ug/l	100
64) Tetrachloroethene	8.15	164	64608	21.842	ug/l	98
65) Chlorobenzene	9.79	112	165395	22.364	ug/l	97
66) 1,1,1,2-Tetrachloroethane	9.92	131	68506	23.908	ug/l	93
67) Ethyl Benzene	9.89	91	289842	23.645	ug/l	97
68) m/p-Xylenes	10.13	106	210104	44.742	ug/l	99
69) o-Xylene	10.71	106	114544	22.652	ug/l	96
70) Styrene	10.78	104	158631	22.291	ug/l	96
71) Bromoform	10.77	173	31447	20.765	ug/l	97
73) Isopropylbenzene	11.11	105	340493	23.857	ug/l	97
74) N-amyl acetate	11.37	43	77680	23.641	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.69	83	53321	22.478	ug/l	95
76) 1,2,3-Trichloropropane	11.78	75	35683	22.040	ug/l	99
77) Bromobenzene	11.49	156	75943	22.109	ug/l	93
78) n-propylbenzene	11.59	91	375751	23.313	ug/l	100
79) 2-Chlorotoluene	11.71	91	215388	23.374	ug/l	98
80) 1,3,5-Trimethylbenzene	11.81	105	277339	24.203	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.86	75	17450m	23.571	ug/l	
82) 4-Chlorotoluene	11.89	91	218896	23.224	ug/l	97
83) tert-Butylbenzene	12.13	119	292807	24.064	ug/l	95
84) 1,2,4-Trimethylbenzene	12.20	105	266401	23.715	ug/l	95
85) sec-Butylbenzene	12.30	105	364990	23.051	ug/l	99
86) p-Isopropyltoluene	12.45	119	308957	22.955	ug/l	97
87) 1,3-Dichlorobenzene	12.46	146	149567	22.932	ug/l	96
88) 1,4-Dichlorobenzene	12.56	146	144291	22.934	ug/l	98
89) n-Butylbenzene	12.84	91	302913	23.549	ug/l	96
90) Hexachloroethane	12.91	117	75415	23.278	ug/l	93
91) 1,2-Dichlorobenzene	12.94	146	137926	22.320	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.64	75	8004	21.734	ug/l	94

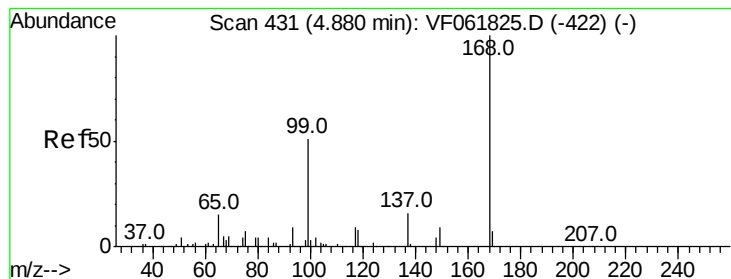
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF031419\
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	96818	22.348	ug/l	92
94) Hexachlorobutadiene	14.18	225	63653	21.224	ug/l	99
95) Naphthalene	14.45	128	174249	22.583	ug/l	99
96) 1,2,3-Trichlorobenzene	14.59	180	88785	22.196	ug/l	94

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.02 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

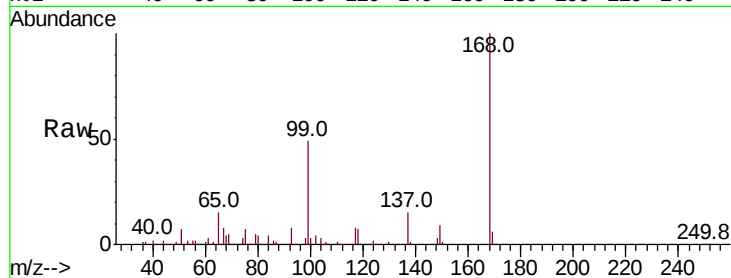
VF0314SBS01

Tot Ion:168 Resp: 298844

Ion Ratio Lower Upper

168 100

99 49.4 40.8 61.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

100000

80000

60000

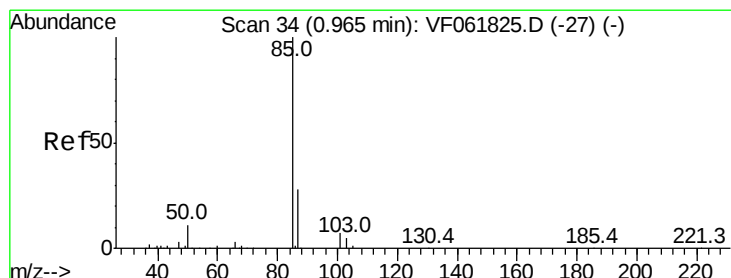
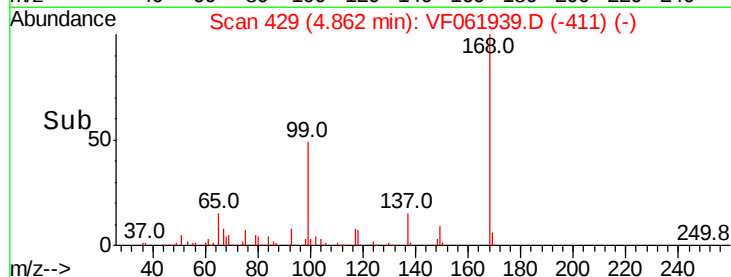
40000

20000

0

4.70 4.80 4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 23.196 ug/l

RT: 0.97 min Scan# 34

Delta R.T. 0.00 min

Lab File: VF061939.D

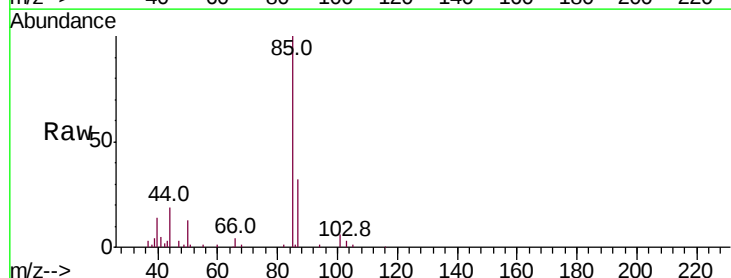
Acq: 14 Mar 2019 15:28

Tgt Ion: 85 Resp: 85104

Ion Ratio Lower Upper

85 100

87 31.8 14.1 42.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.97

25000

20000

15000

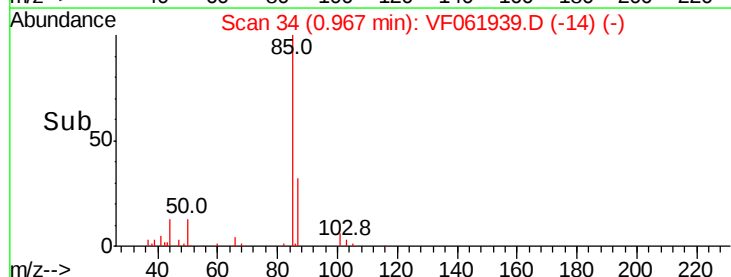
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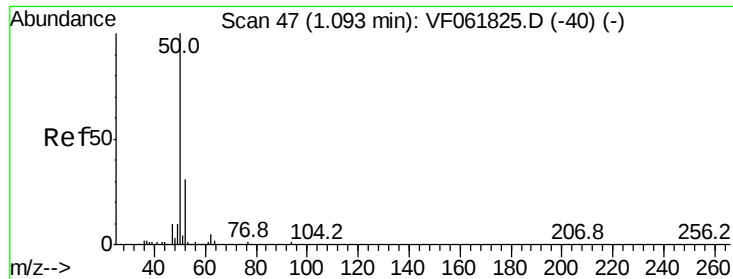
5000

0

0.80 0.90 1.00 1.10 1.20

Time-->





#3

Chloromethane

Concen: 24.760 ug/l

RT: 1.09 min Scan# 47

Delta R.T. 0.00 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

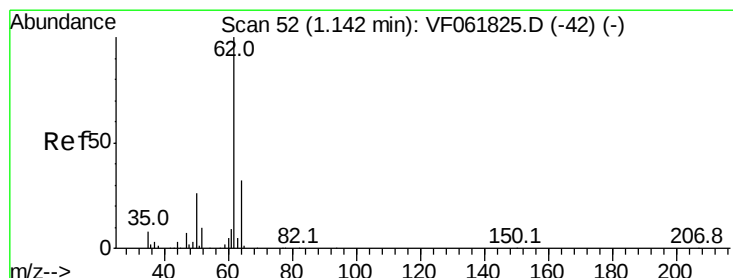
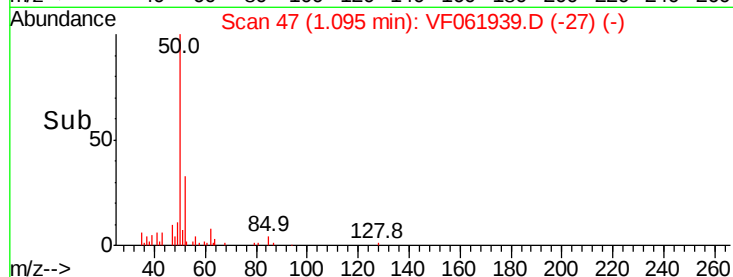
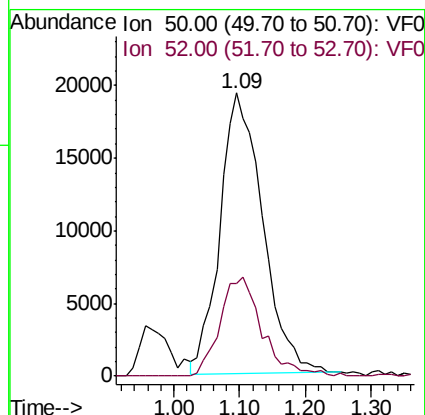
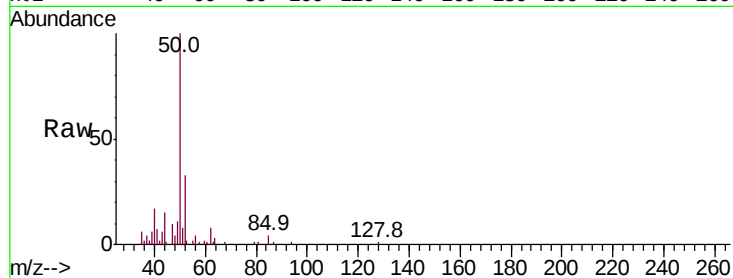
VF0314SBS01

Tot Ion: 50 Resp: 88041

Ion Ratio Lower Upper

50 100

52 32.8 23.8 35.8



#4

Vinyl Chloride

Concen: 24.813 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.00 min

Lab File: VF061939.D

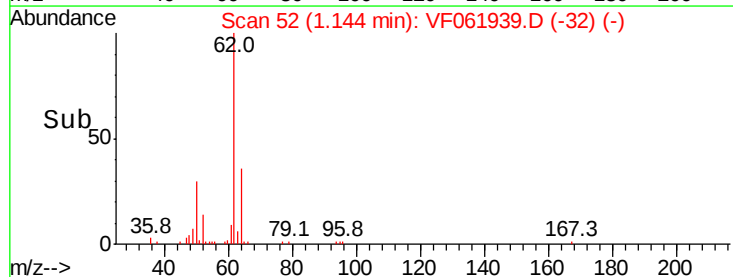
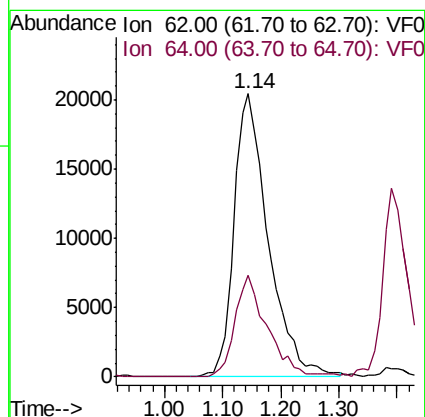
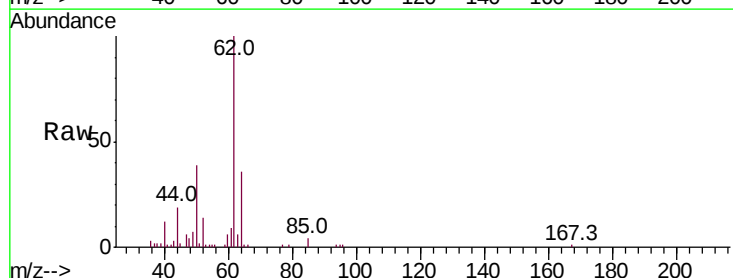
Acq: 14 Mar 2019 15:28

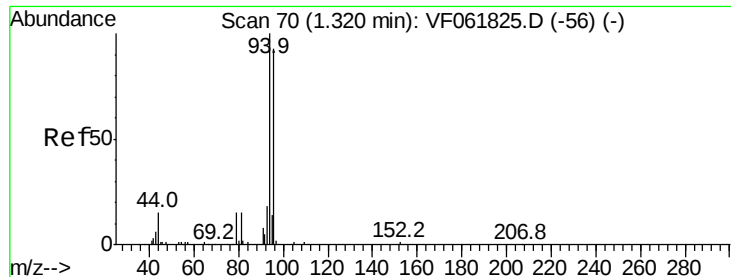
Tgt Ion: 62 Resp: 83754

Ion Ratio Lower Upper

62 100

64 35.8 25.2 37.8





#5

Bromomethane

Concen: 24.940 ug/l

RT: 1.32 min Scan# 70

Delta R.T. 0.00 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

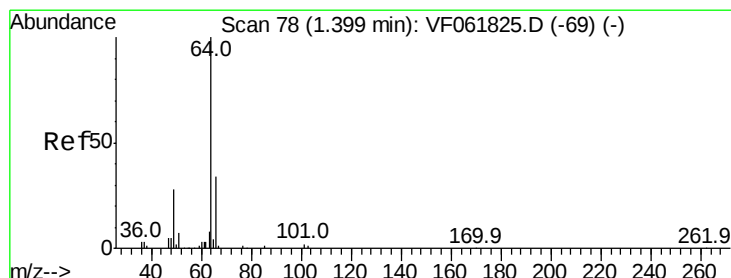
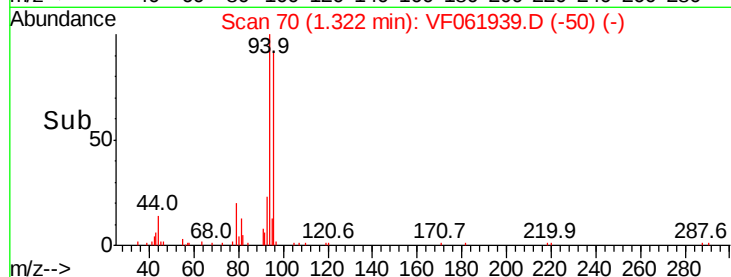
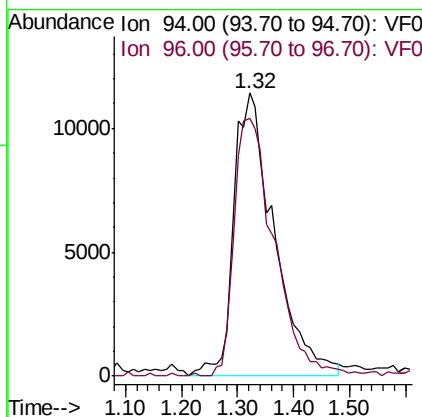
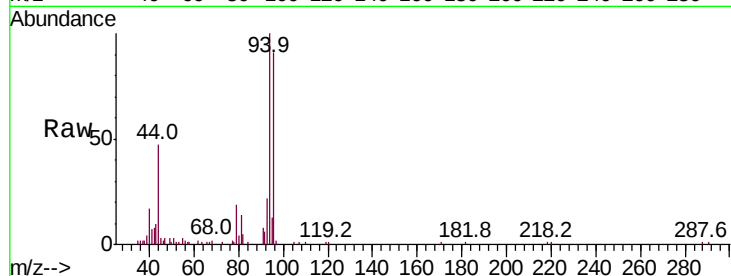
VF0314SBS01

Tot Ion: 94 Resp: 57371

Ion Ratio Lower Upper

94 100

96 90.9 75.2 112.8



#6

Chloroethane

Concen: 26.237 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.01 min

Lab File: VF061939.D

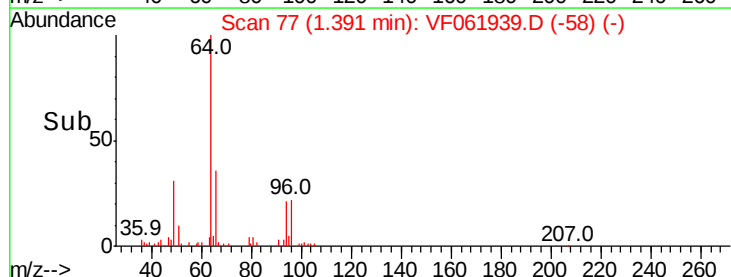
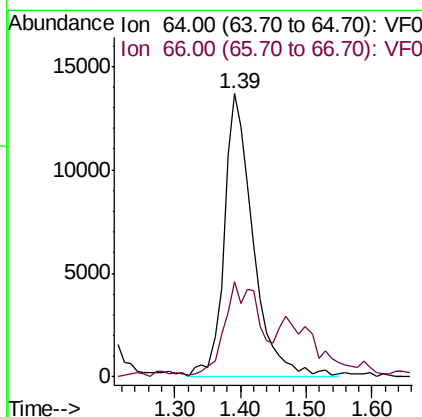
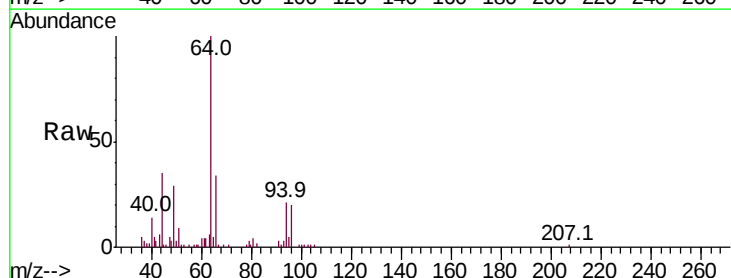
Acq: 14 Mar 2019 15:28

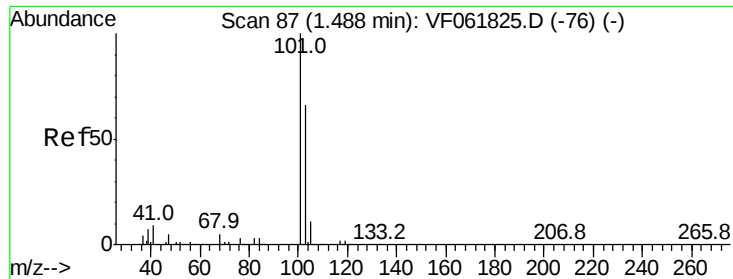
Tgt Ion: 64 Resp: 42097

Ion Ratio Lower Upper

64 100

66 33.7 27.0 40.4





#7

Trichlorofluoromethane

Concen: 23.907 ug/l

RT: 1.48 min Scan# 86

Delta R.T. -0.01 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

Instrument :

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ClientSampleId :

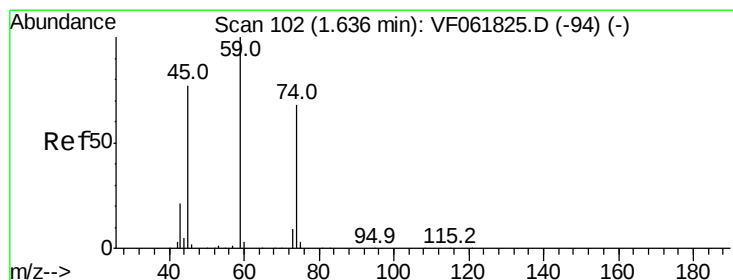
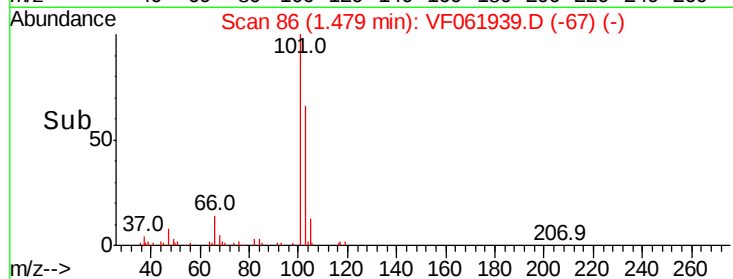
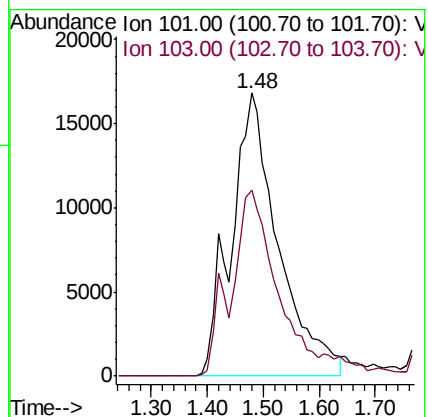
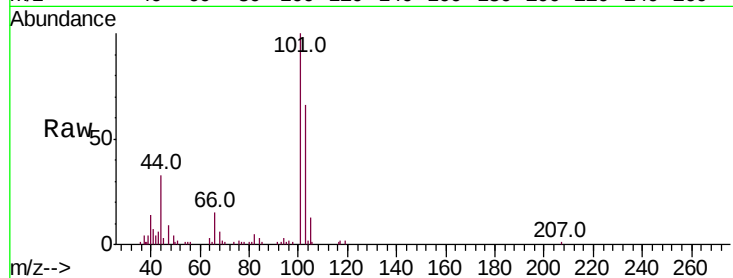
VF0314SBS01

Tot Ion:101 Resp: 98558

Ion Ratio Lower Upper

101 100

103 65.7 52.8 79.2



#8

Diethyl Ether

Concen: 23.076 ug/l

RT: 1.63 min Scan# 101

Delta R.T. -0.01 min

Lab File: VF061939.D

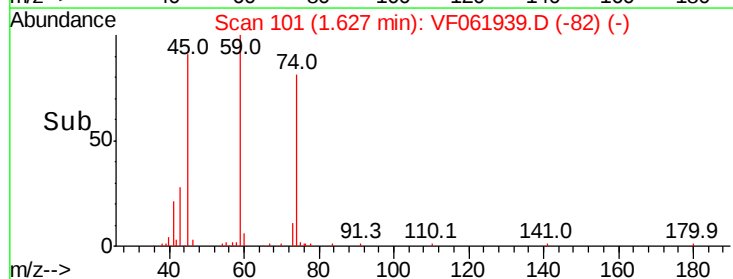
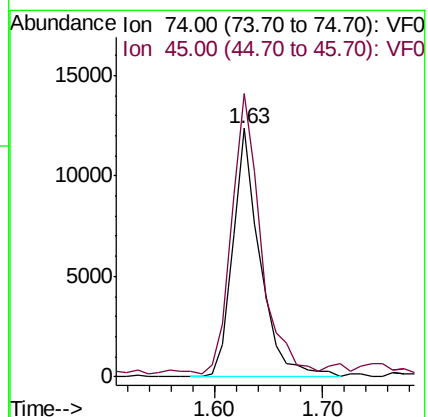
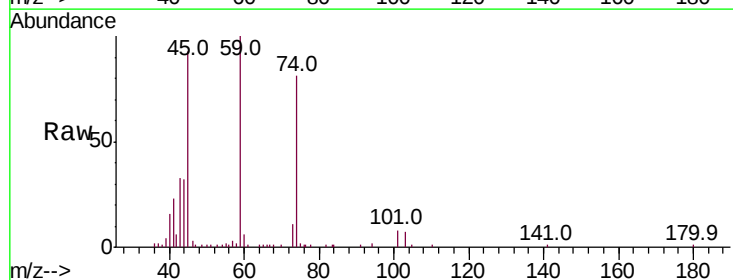
Acq: 14 Mar 2019 15:28

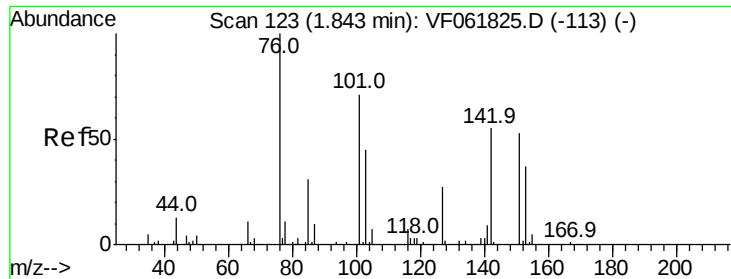
Tgt Ion: 74 Resp: 21633

Ion Ratio Lower Upper

74 100

45 114.0 57.2 171.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.516 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.01 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

VF0314SBS01

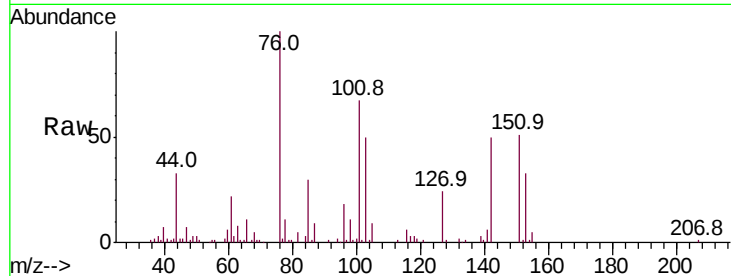
Tot Ion:101 Resp: 65834

Ion Ratio Lower Upper

101 100

85 44.9 34.0 51.0

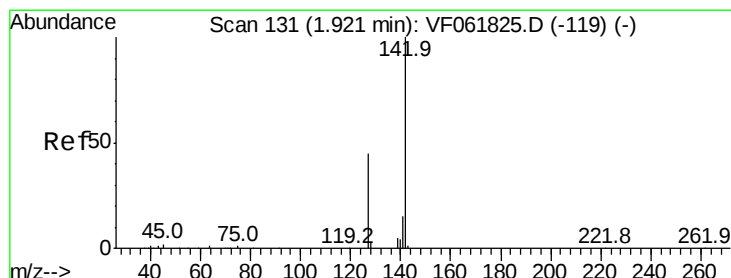
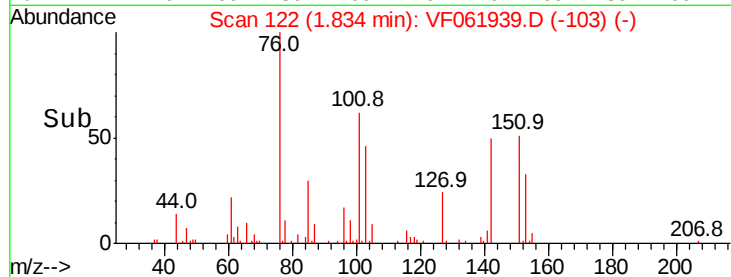
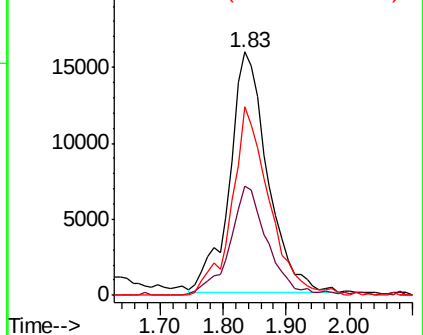
151 77.3 57.3 85.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 23.876 ug/l m

RT: 1.90 min Scan# 129

Delta R.T. -0.02 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

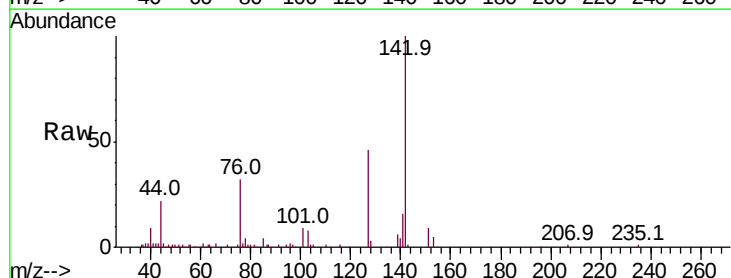
Tgt Ion:142 Resp: 127201

Ion Ratio Lower Upper

142 100

127 46.1 35.8 53.6

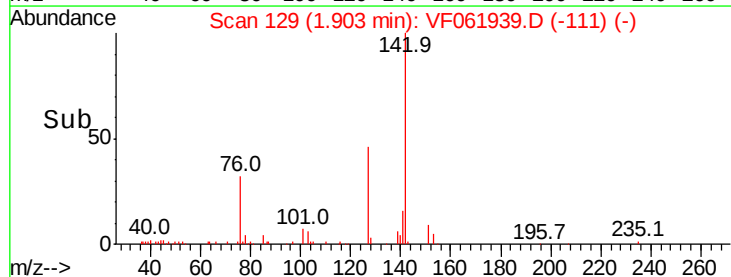
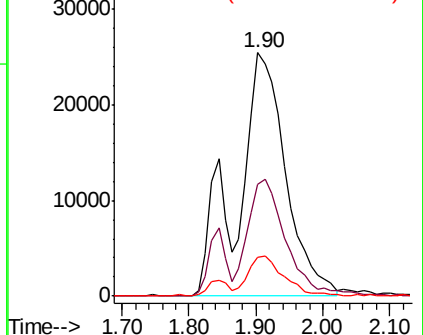
141 15.8 11.7 17.5

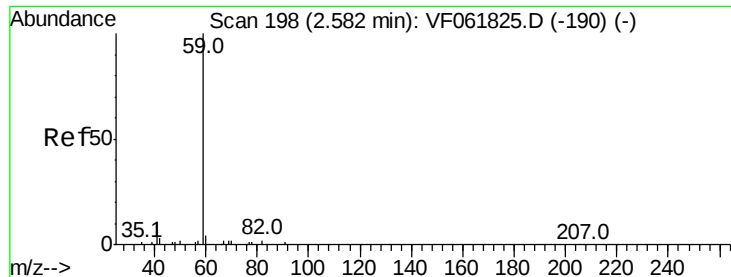


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



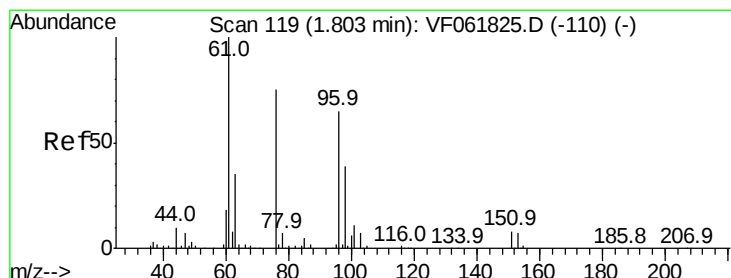
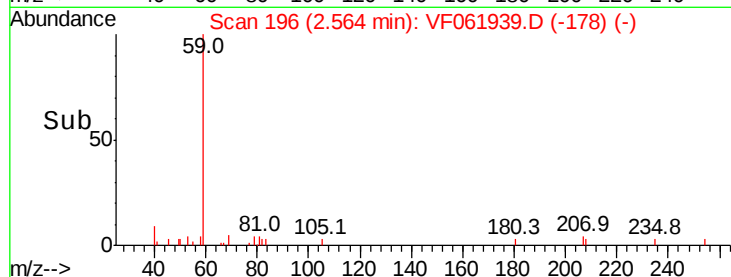
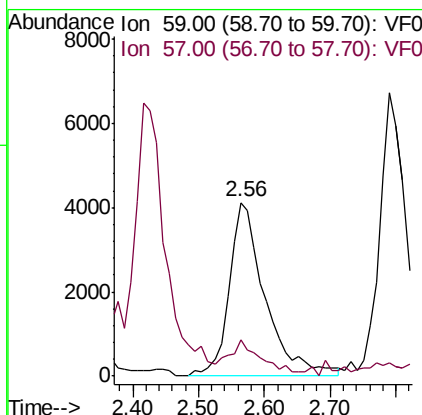
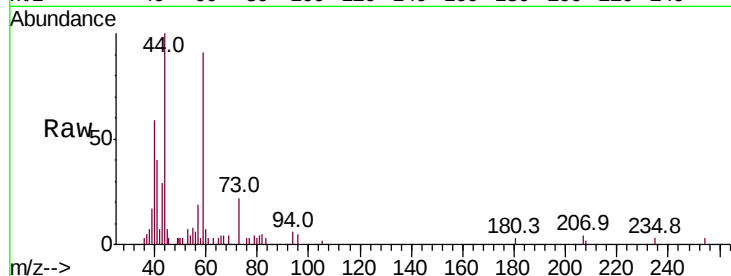


#11

Tert butyl alcohol
Concen: 127.998 ug/l
RT: 2.56 min Scan# 196
Delta R.T. -0.02 min
Lab File: VF061939.D
Acq: 14 Mar 2019 15:28

Instrument :
MSVOA_F
ClientSampleId :
VF0314SBS01

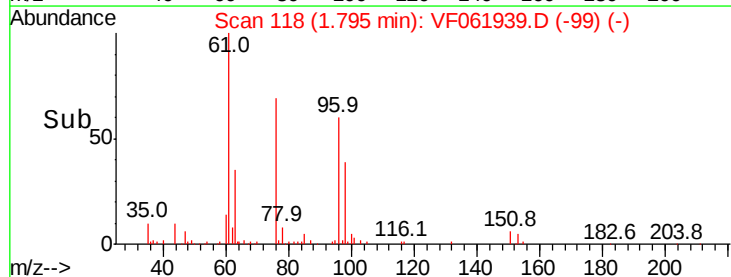
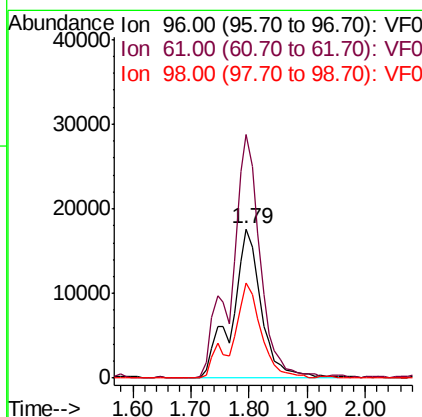
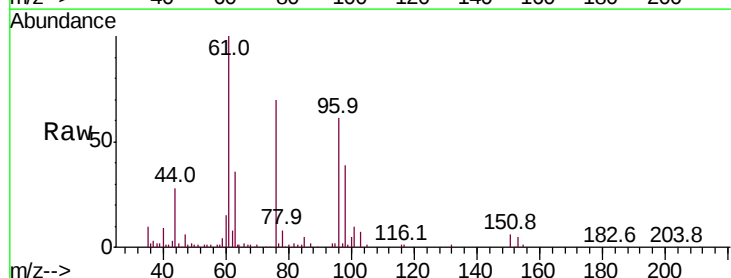
Tot Ion: 59 Resp: 15811
Ion Ratio Lower Upper
59 100
57 21.3 11.8 17.6#

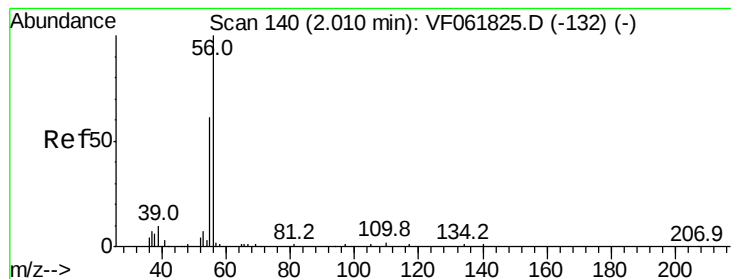


#12

1,1-Dichloroethene
Concen: 24.382 ug/l
RT: 1.79 min Scan# 118
Delta R.T. -0.01 min
Lab File: VF061939.D
Acq: 14 Mar 2019 15:28

Tgt Ion: 96 Resp: 62317
Ion Ratio Lower Upper
96 100
61 163.5 122.5 183.7
98 64.0 47.1 70.7





#13

Acrolein

Concen: 84.276 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.02 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

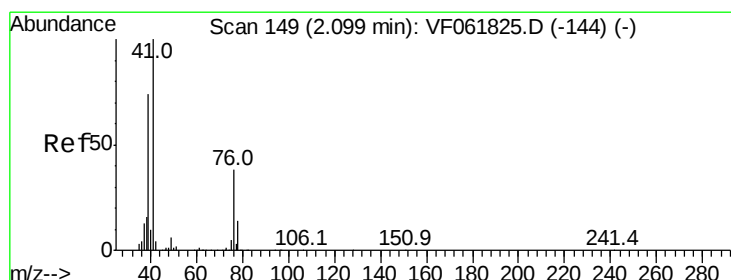
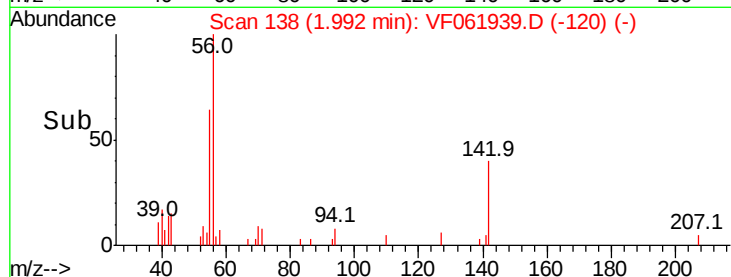
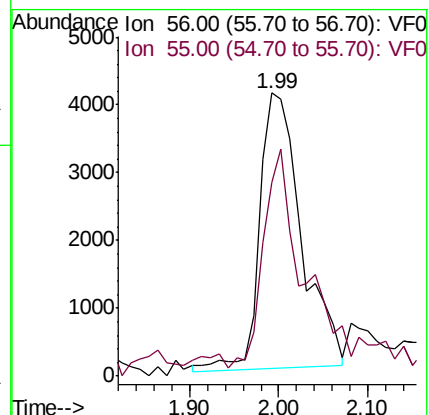
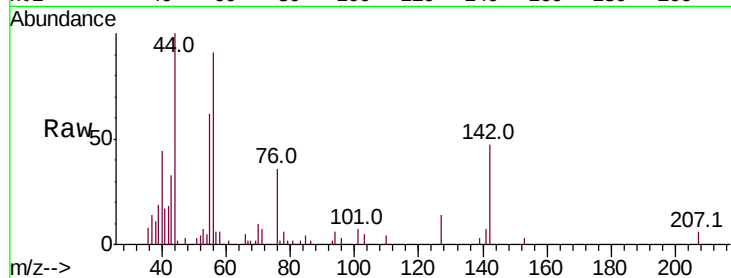
VF0314SBS01

Tot Ion: 56 Resp: 13191

Ion Ratio Lower Upper

56 100

55 68.3 51.3 76.9



#14

Allyl chloride

Concen: 26.503 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.01 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

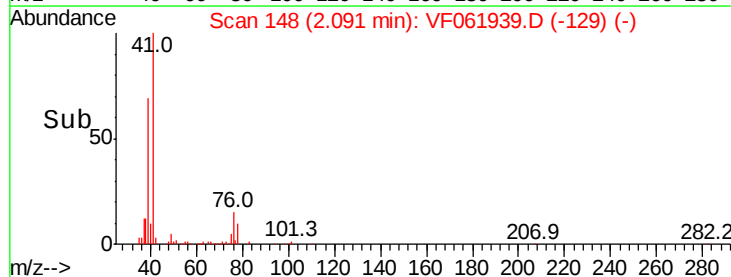
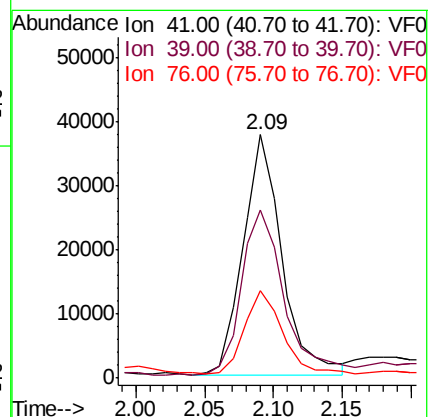
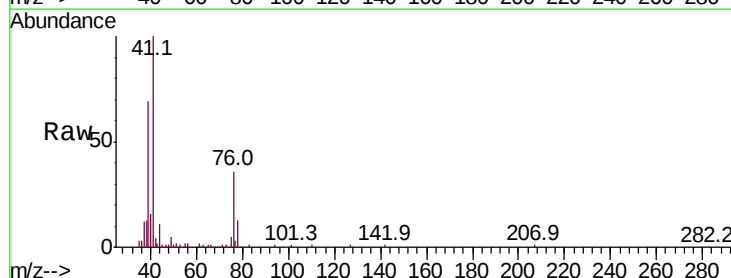
Tgt Ion: 41 Resp: 74623

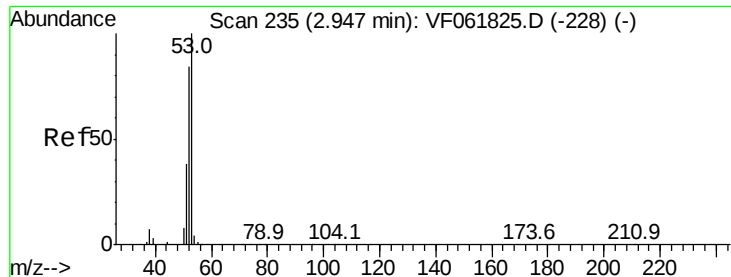
Ion Ratio Lower Upper

41 100

39 69.2 59.6 89.4

76 35.8 32.3 48.5

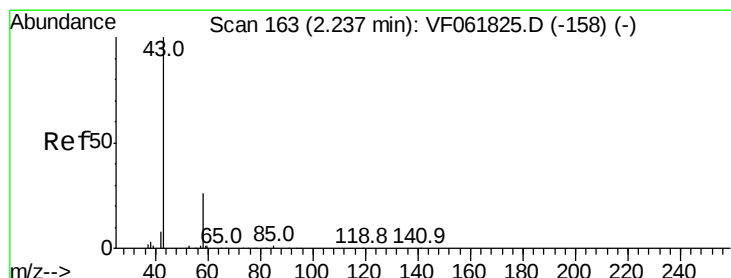
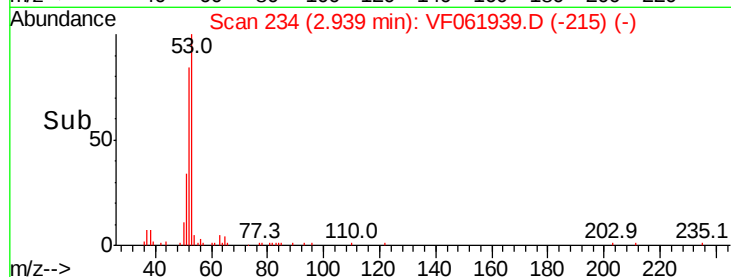
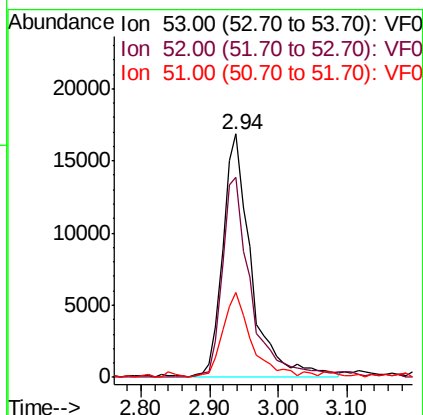
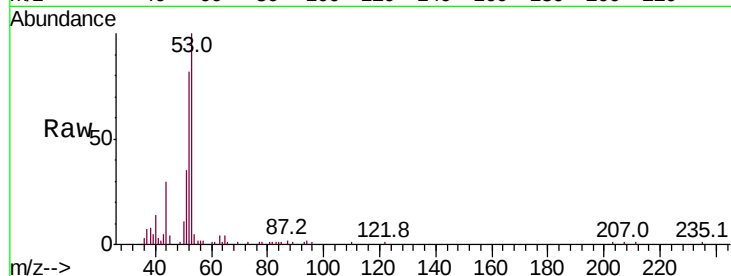




#15
 Acrylonitrile
 Concen: 123.878 ug/l
 RT: 2.94 min Scan# 234
 Delta R.T. -0.01 min
 Lab File: VF061939.D
 Acq: 14 Mar 2019 15:28

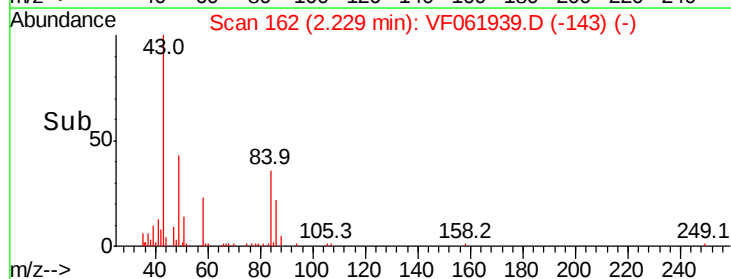
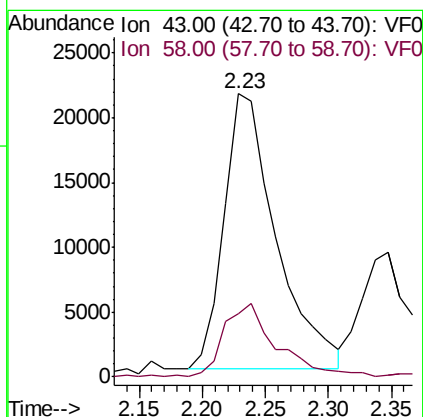
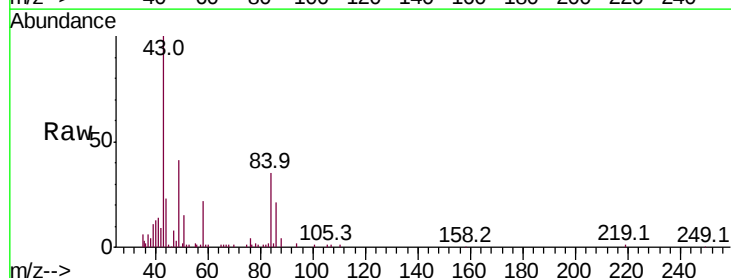
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0314SBS01

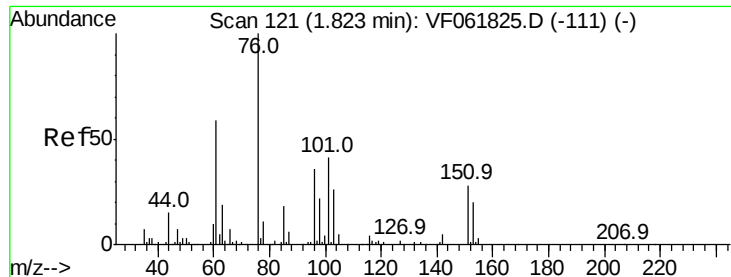
Tot Ion: 53 Resp: 48726
 Ion Ratio Lower Upper
 53 100
 52 82.1 67.4 101.0
 51 34.8 30.7 46.1



#16
 Acetone
 Concen: 134.197 ug/l
 RT: 2.23 min Scan# 162
 Delta R.T. -0.01 min
 Lab File: VF061939.D
 Acq: 14 Mar 2019 15:28

Tgt Ion: 43 Resp: 61177
 Ion Ratio Lower Upper
 43 100
 58 22.2 20.3 30.5





#17

Carbon Disulfide

Concen: 23.592 ug/l m

RT: 1.80 min Scan# 119

Delta R.T. -0.02 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

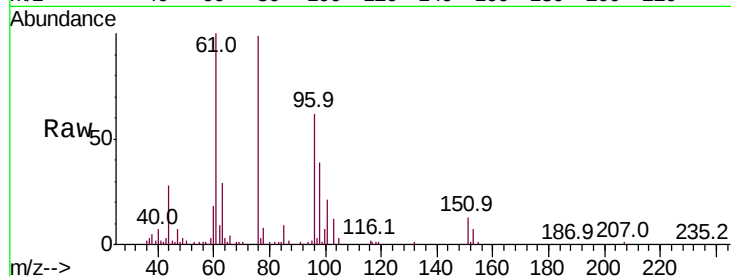
VF0314SBS01

Tot Ion: 76 Resp: 187689

Ion Ratio Lower Upper

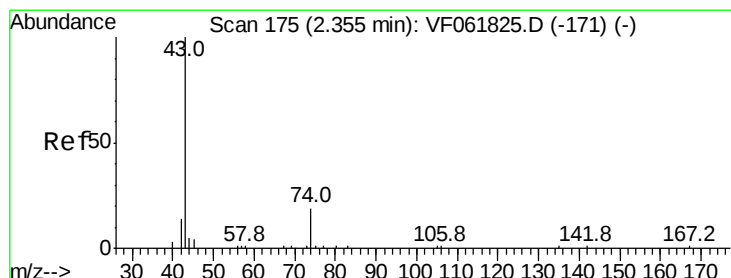
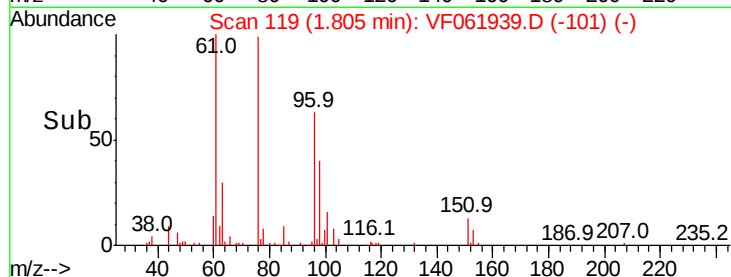
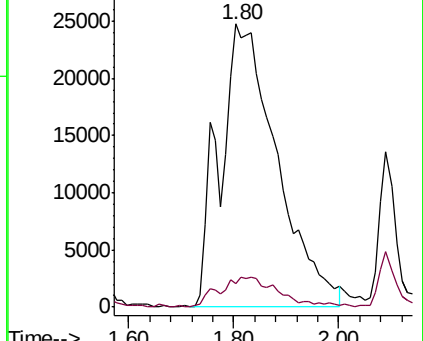
76 100

78 8.5 9.1 13.7#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#18

Methyl Acetate

Concen: 30.095 ug/l m

RT: 2.35 min Scan# 174

Delta R.T. -0.01 min

Lab File: VF061939.D

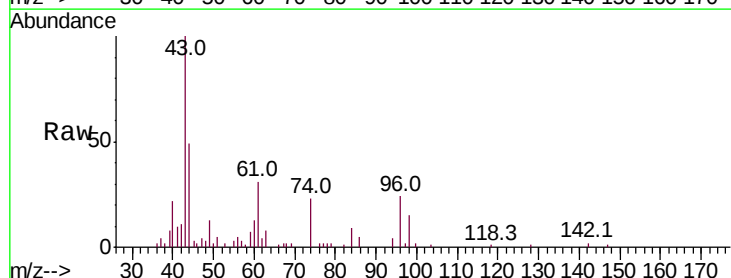
Acq: 14 Mar 2019 15:28

Tgt Ion: 43 Resp: 26481

Ion Ratio Lower Upper

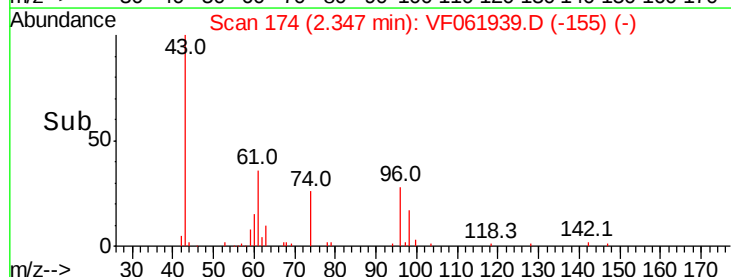
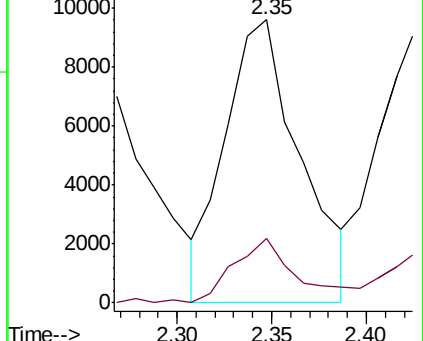
43 100

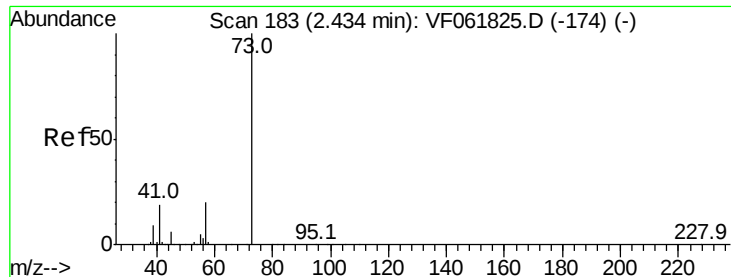
74 22.7 13.2 19.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0



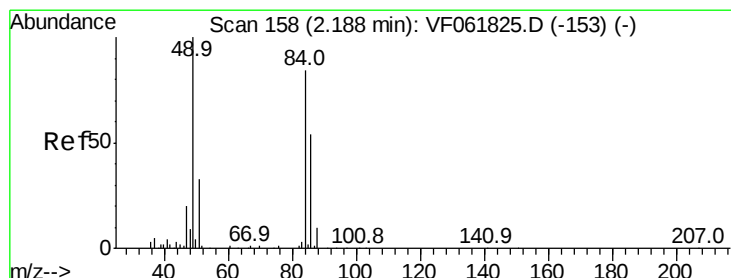
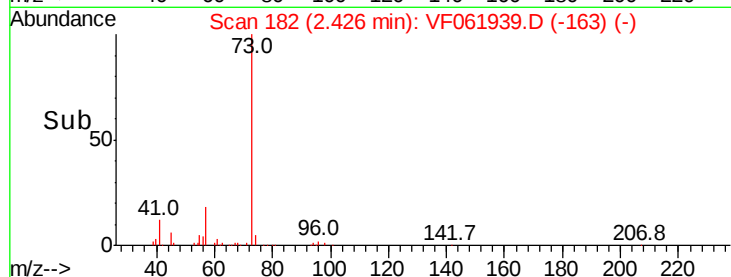
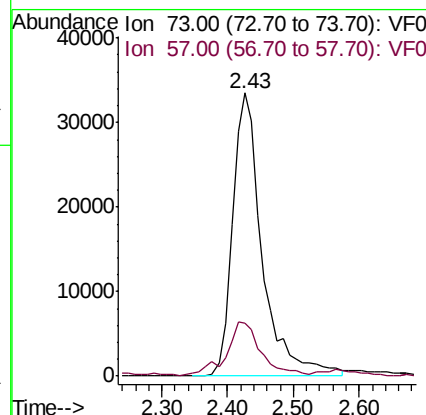
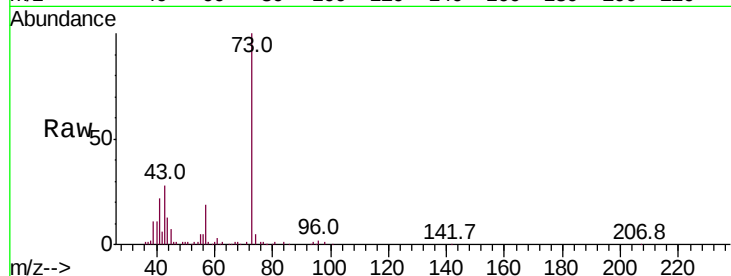


#19

Methyl tert-butyl Ether
 Concen: 24.382 ug/l
 RT: 2.43 min Scan# 182
 Delta R.T. -0.01 min
 Lab File: VF061939.D
 Acq: 14 Mar 2019 15:28

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0314SBS01

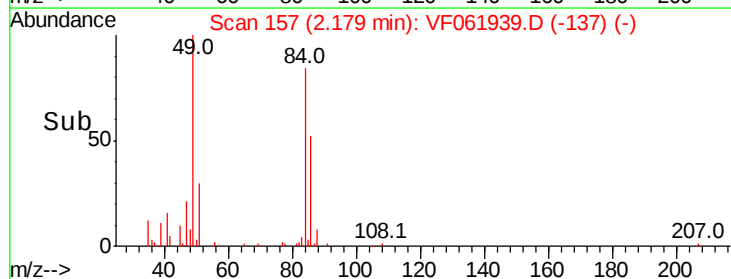
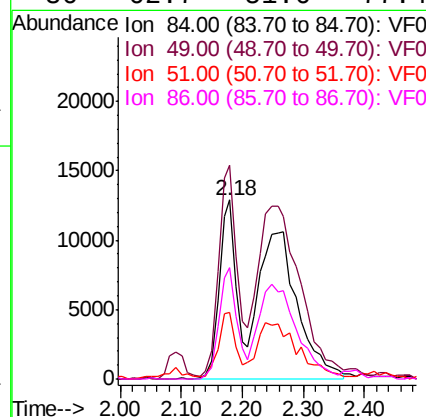
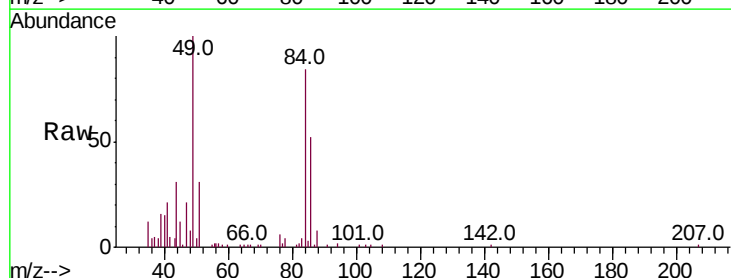
Tot Ion: 73 Resp: 105416
 Ion Ratio Lower Upper
 73 100
 57 18.8 16.1 24.1

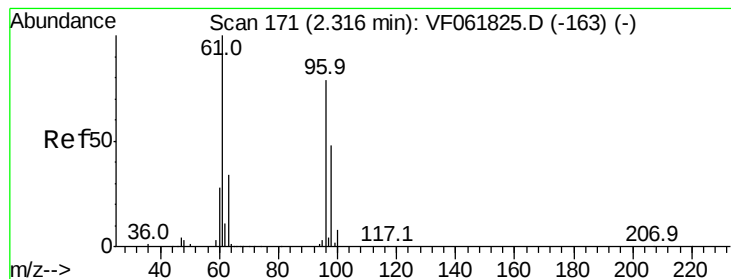


#20

Methylene Chloride
 Concen: 26.211 ug/l m
 RT: 2.18 min Scan# 157
 Delta R.T. -0.01 min
 Lab File: VF061939.D
 Acq: 14 Mar 2019 15:28

Tgt Ion: 84 Resp: 72718
 Ion Ratio Lower Upper
 84 100
 49 119.6 96.8 145.2
 51 36.9 31.8 47.6
 86 62.7 51.6 77.4





#21

trans-1,2-Dichloroethene

Concen: 26.827 ug/l

RT: 2.31 min Scan# 170

Delta R.T. -0.01 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

VF0314SBS01

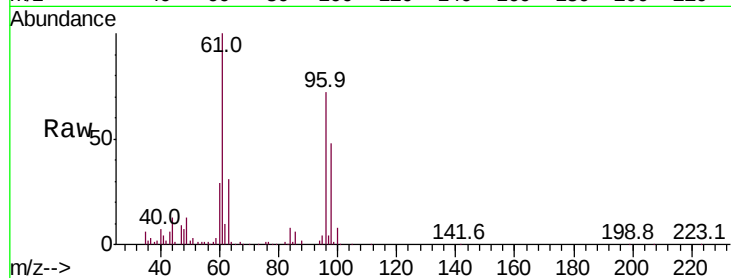
Tot Ion: 96 Resp: 64532

Ion Ratio Lower Upper

96 100

61 139.4 101.0 151.6

98 66.6 48.8 73.2

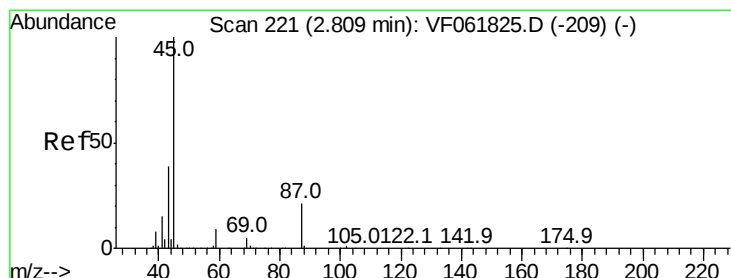
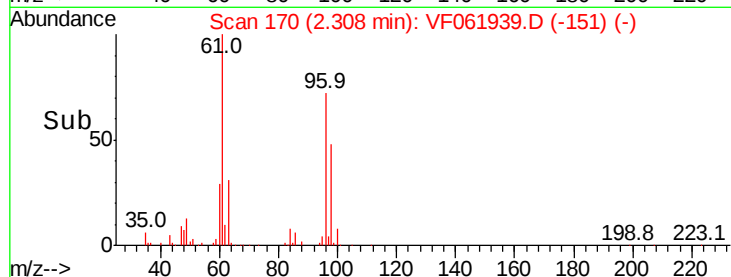
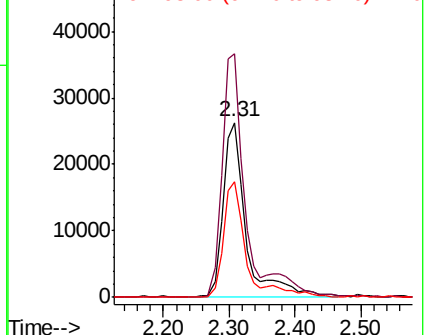


Abundance

Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#22

Diisopropyl ether

Concen: 24.257 ug/l

RT: 2.79 min Scan# 219

Delta R.T. -0.02 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

Tgt Ion: 45 Resp: 177667

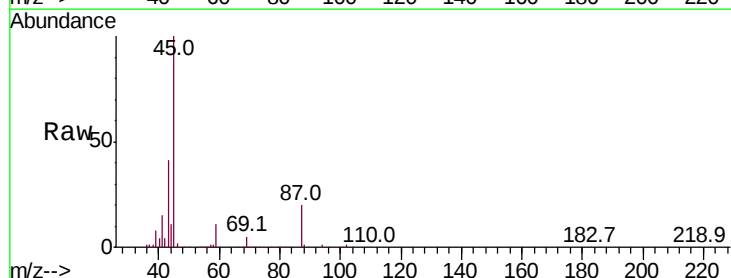
Ion Ratio Lower Upper

45 100

43 41.1 31.8 47.8

87 19.8 17.1 25.7

59 11.0 7.8 11.6



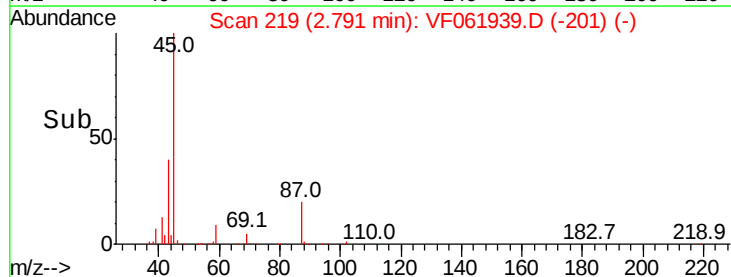
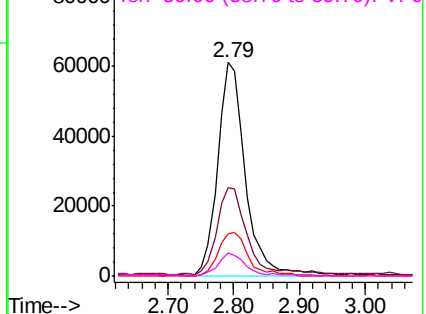
Abundance

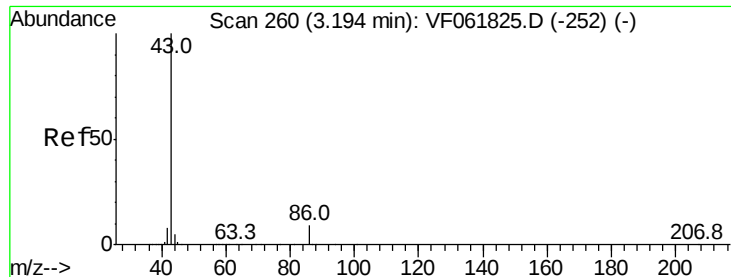
Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 124.749 ug/l

RT: 3.19 min Scan# 259

Delta R.T. -0.01 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

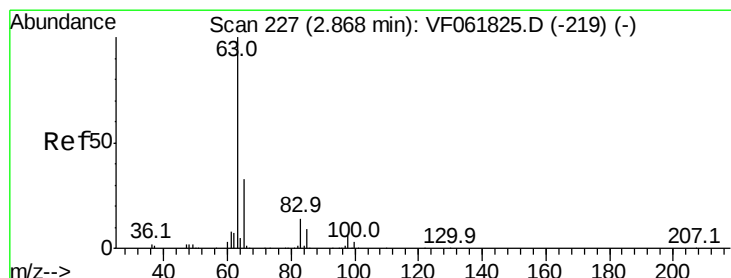
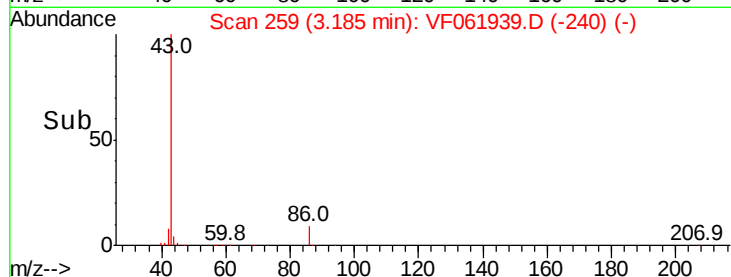
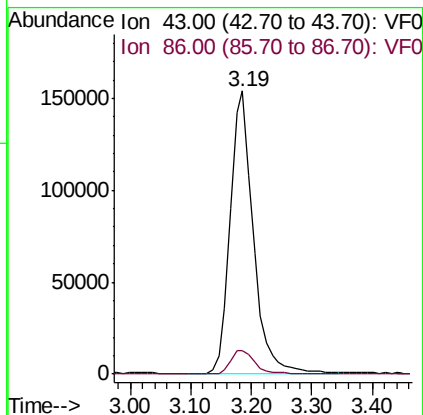
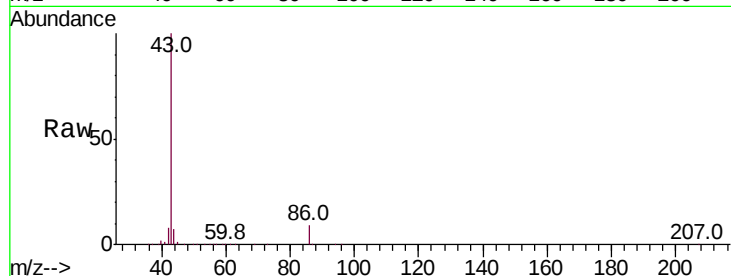
VF0314SBS01

Tot Ion: 43 Resp: 408182

Ion Ratio Lower Upper

43 100

86 8.5 7.0 10.4



#24

1,1-Dichloroethane

Concen: 24.792 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.01 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

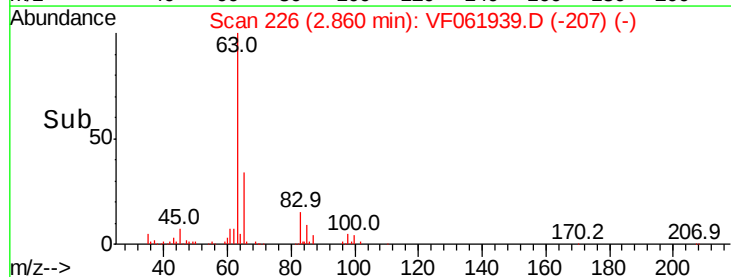
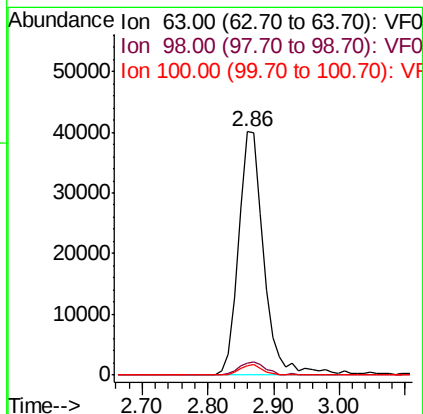
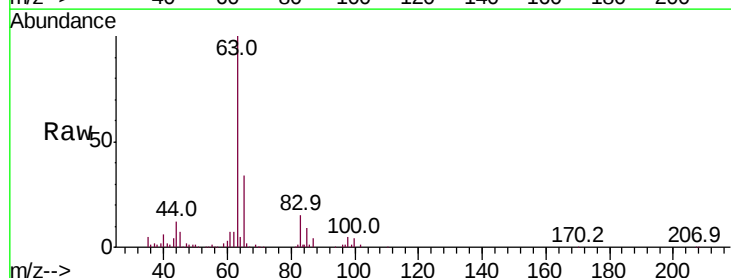
Tgt Ion: 63 Resp: 108535

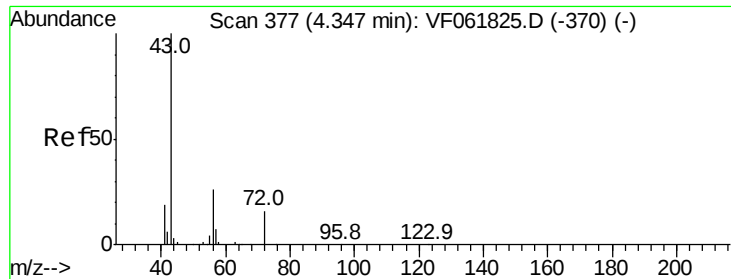
Ion Ratio Lower Upper

63 100

98 5.2 2.9 8.6

100 3.8 1.8 5.3

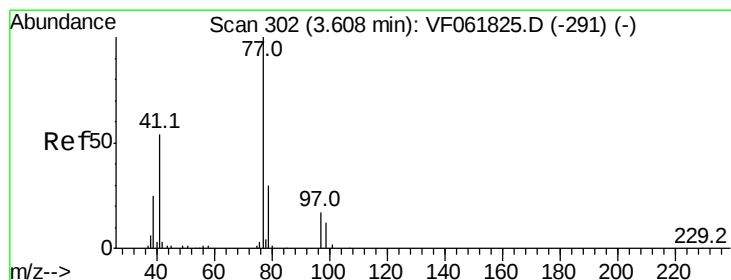
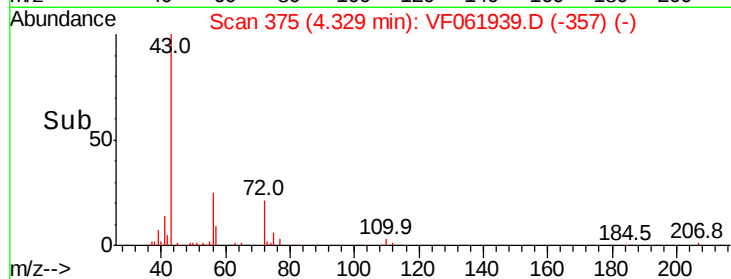
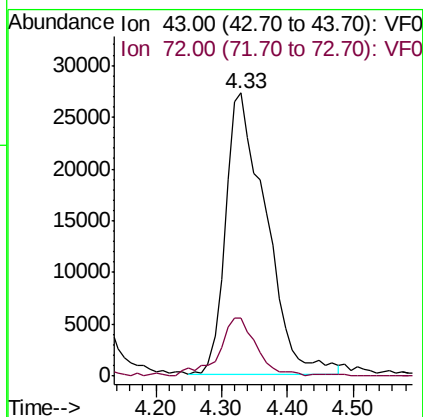
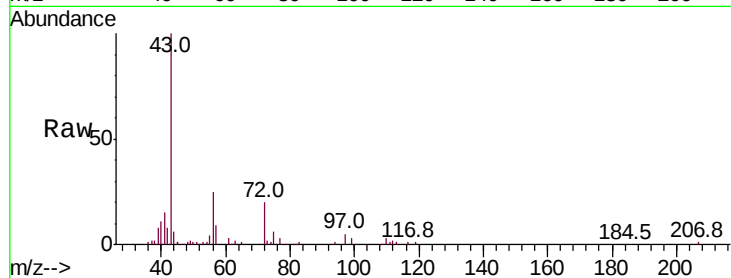




#25
2-Butanone
Concen: 125.109 ug/l
RT: 4.33 min Scan# 375
Delta R.T. -0.02 min
Lab File: VF061939.D
Acq: 14 Mar 2019 15:28

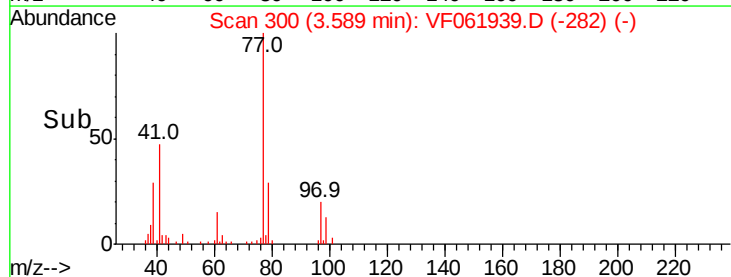
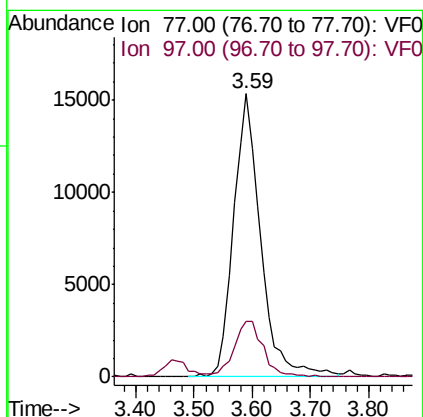
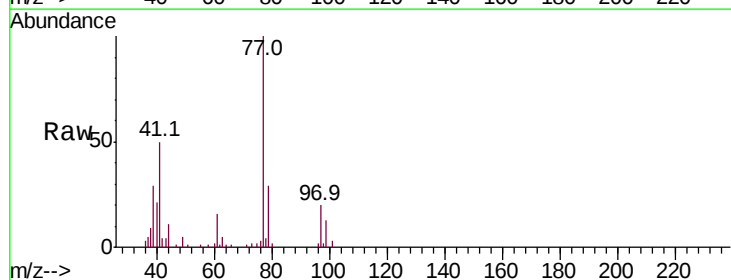
Instrument :
MSVOA_F
ClientSampleId :
VF0314SBS01

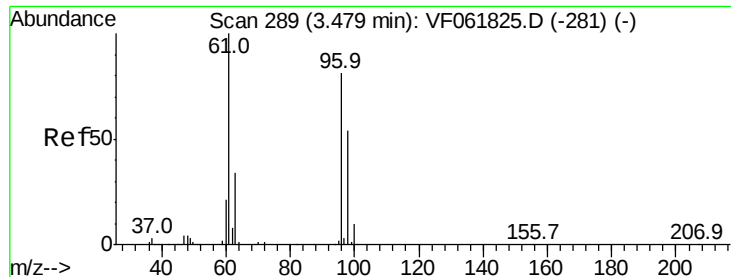
Tot Ion: 43 Resp: 116013
Ion Ratio Lower Upper
43 100
72 20.4 16.2 24.4



#26
2,2-Dichloropropane
Concen: 25.484 ug/l
RT: 3.59 min Scan# 300
Delta R.T. -0.02 min
Lab File: VF061939.D
Acq: 14 Mar 2019 15:28

Tgt Ion: 77 Resp: 49804
Ion Ratio Lower Upper
77 100
97 19.8 10.4 31.4



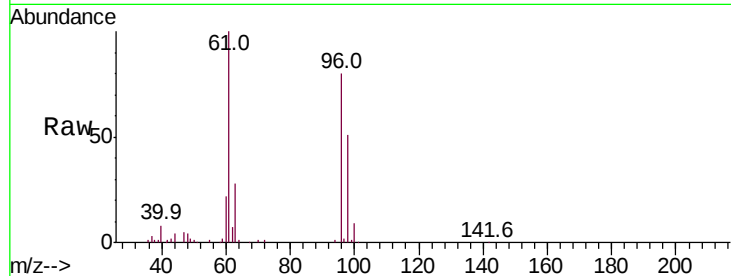


#27

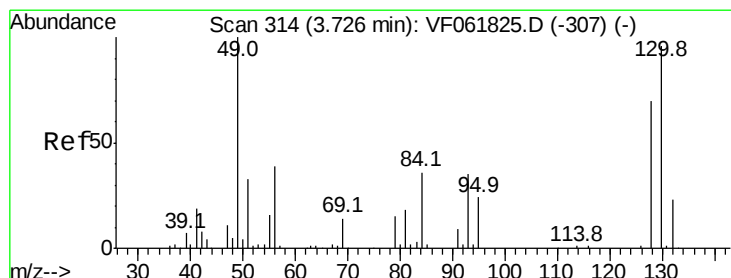
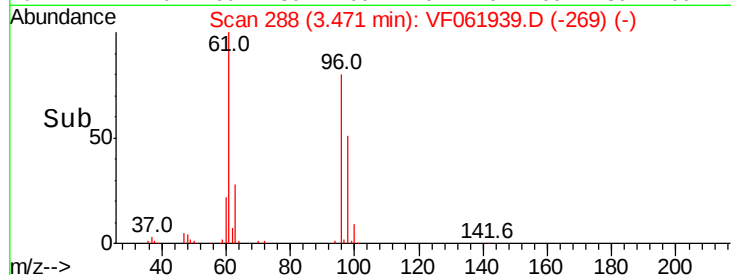
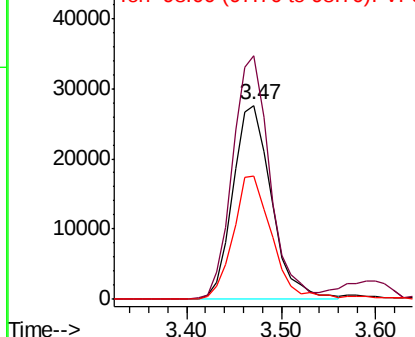
cis-1,2-Dichloroethene
Concen: 23.466 ug/l
RT: 3.47 min Scan# 288
Delta R.T. -0.01 min
Lab File: VF061939.D
Acq: 14 Mar 2019 15:28

Instrument :
MSVOA_F
ClientSampleId :
VF0314SBS01

Tot Ion: 96 Resp: 78204
Ion Ratio Lower Upper
96 100
61 125.7 0.0 245.8
98 64.0 0.0 132.6



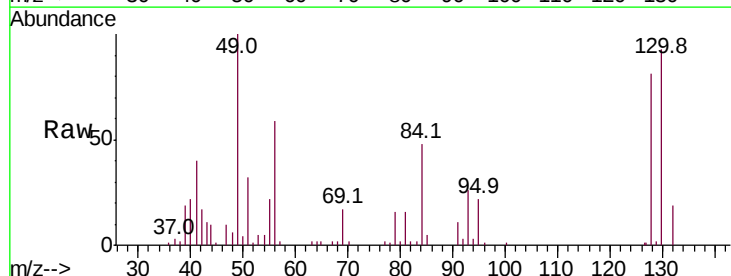
Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



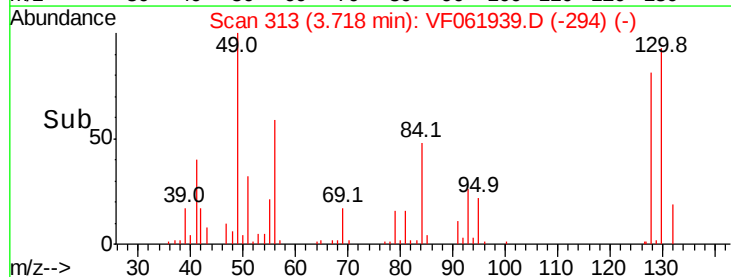
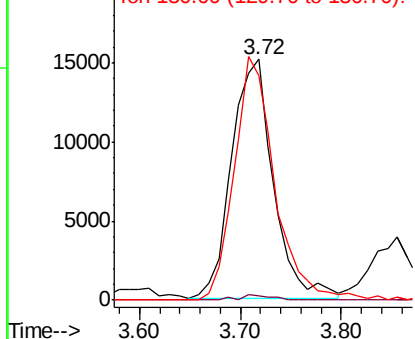
#28

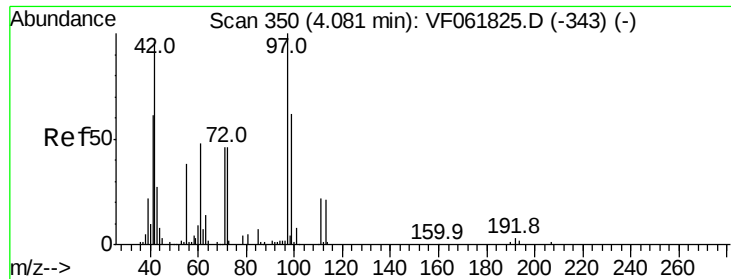
Bromochloromethane
Concen: 22.711 ug/l
RT: 3.72 min Scan# 313
Delta R.T. -0.01 min
Lab File: VF061939.D
Acq: 14 Mar 2019 15:28

Tgt Ion: 49 Resp: 43340
Ion Ratio Lower Upper
49 100
129 1.6 0.0 0.0#
130 93.1 76.9 115.3



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





#29

Tetrahydrofuran

Concen: 108.426 ug/l

RT: 4.07 min Scan# 349

Delta R.T. -0.01 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

VF0314SBS01

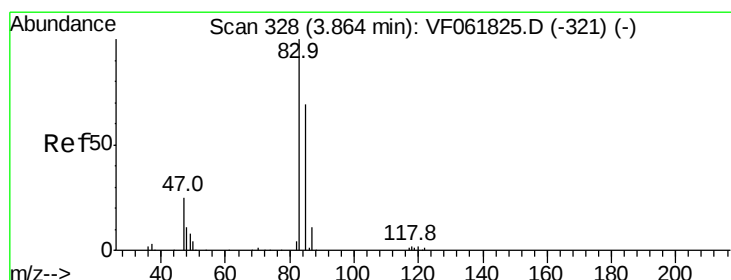
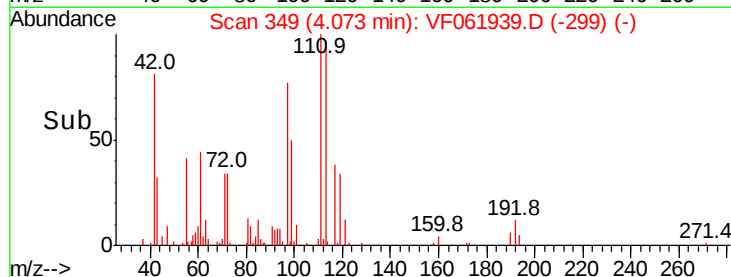
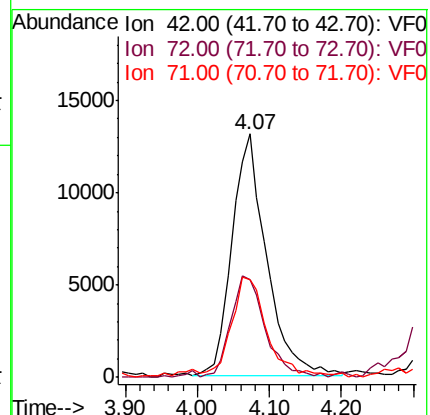
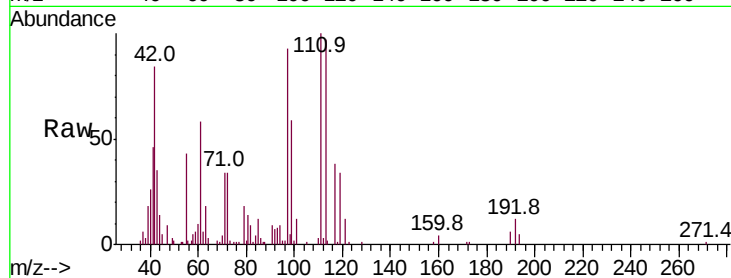
Tot Ion: 42 Resp: 43361

Ion Ratio Lower Upper

42 100

72 42.2 34.4 51.6

71 43.8 34.6 52.0



#30

Chloroform

Concen: 24.711 ug/l

RT: 3.85 min Scan# 326

Delta R.T. -0.02 min

Lab File: VF061939.D

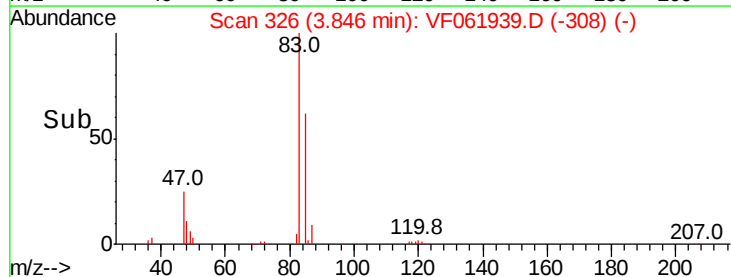
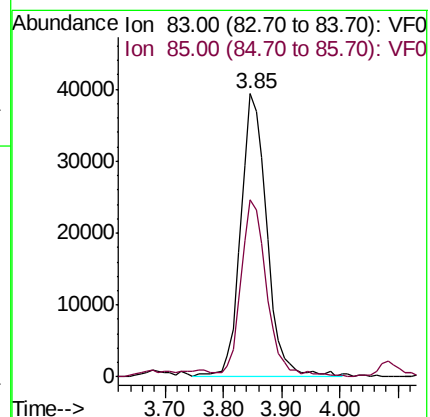
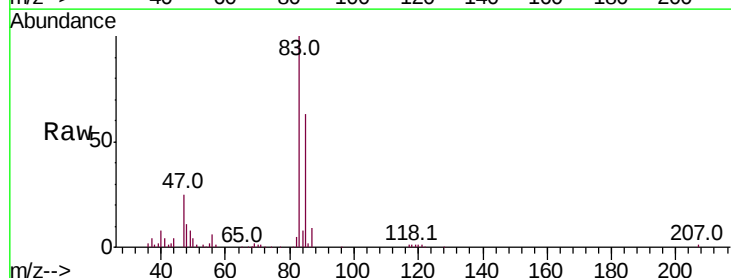
Acq: 14 Mar 2019 15:28

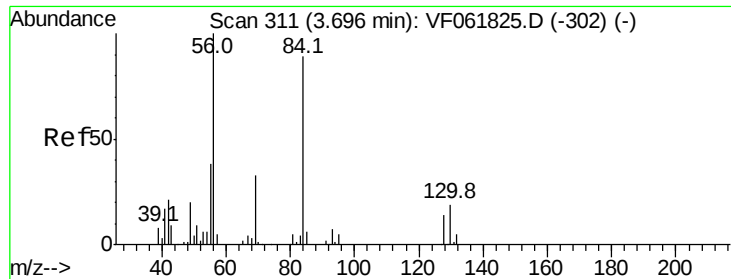
Tgt Ion: 83 Resp: 123567

Ion Ratio Lower Upper

83 100

85 62.8 55.3 82.9

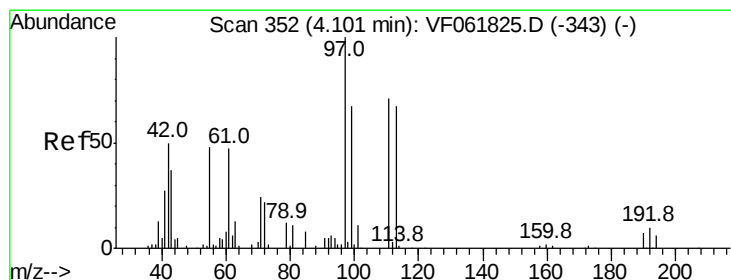
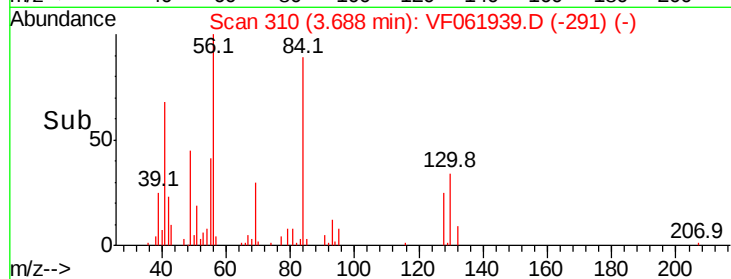
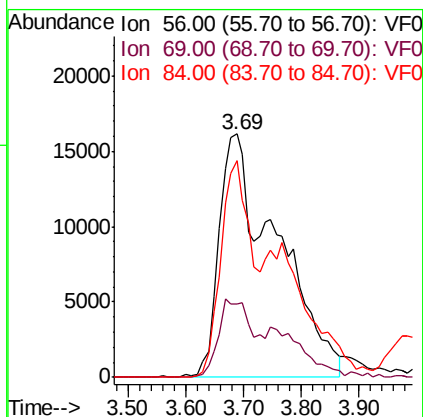
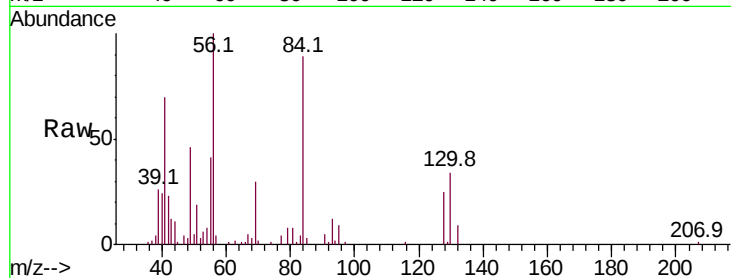




#31
Cyclohexane
Concen: 24.493 ug/l m
RT: 3.69 min Scan# 310
Delta R.T. -0.01 min
Lab File: VF061939.D
Acq: 14 Mar 2019 15:28

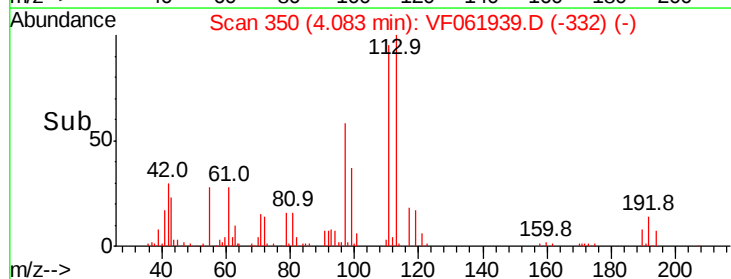
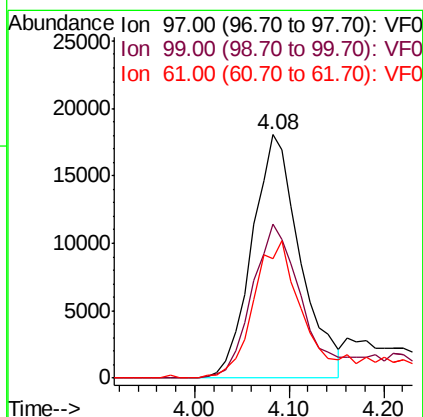
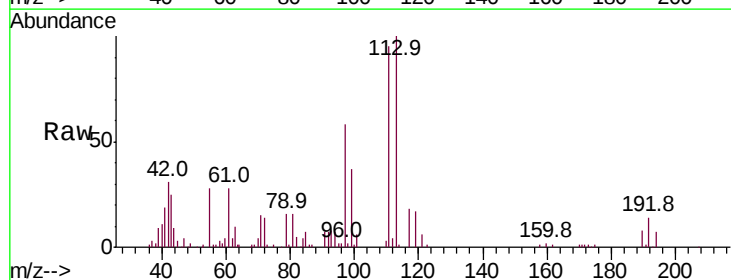
Instrument :
MSVOA_F
ClientSampleId :
VF0314SBS01

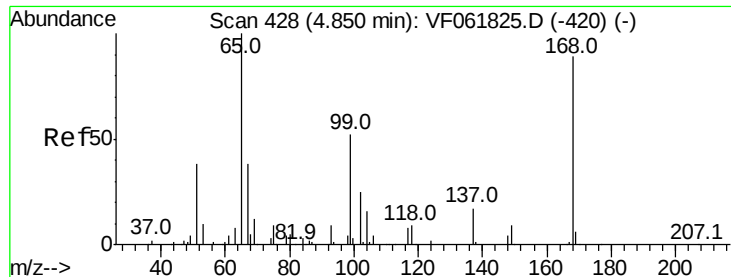
Tot Ion: 56 Resp: 112310
Ion Ratio Lower Upper
56 100
69 30.3 26.0 39.0
84 88.9 71.0 106.6



#32
1,1,1-Trichloroethane
Concen: 20.848 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.02 min
Lab File: VF061939.D
Acq: 14 Mar 2019 15:28

Tgt Ion: 97 Resp: 64259
Ion Ratio Lower Upper
97 100
99 63.0 53.8 80.8
61 49.0 37.9 56.9





#33

1,2-Dichloroethane-d4

Concen: 53.497 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.02 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

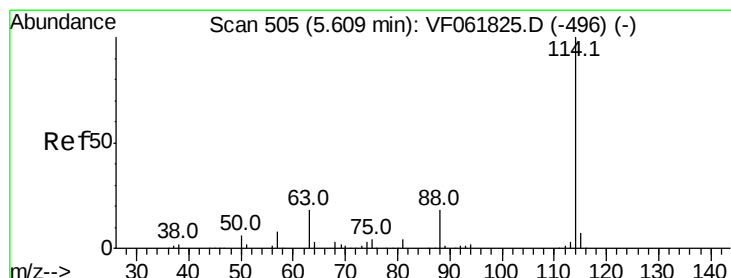
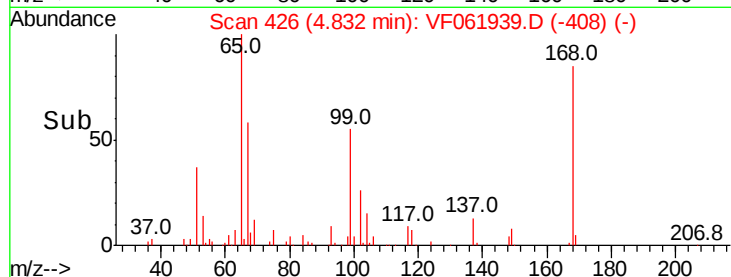
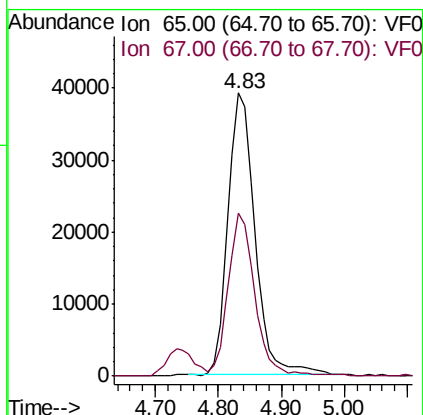
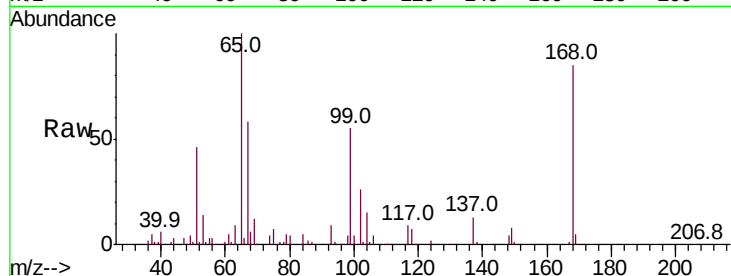
VF0314SBS01

Tot Ion: 65 Resp: 116426

Ion Ratio Lower Upper

65 100

67 57.7 0.0 108.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.02 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

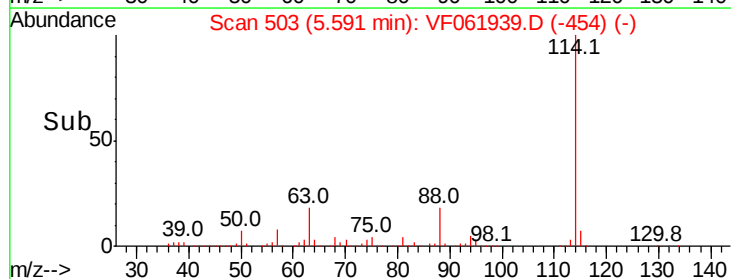
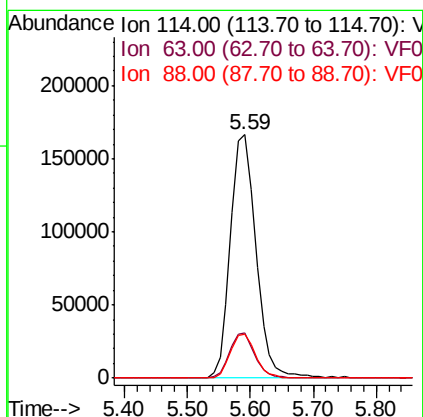
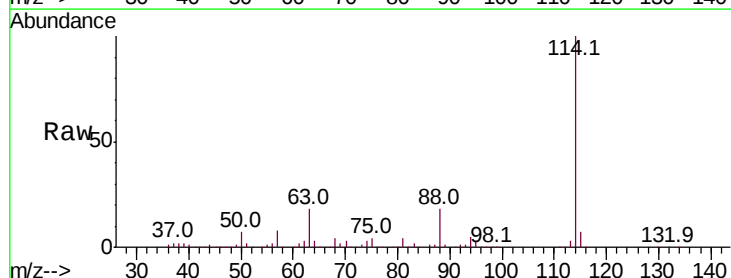
Tgt Ion: 114 Resp: 468987

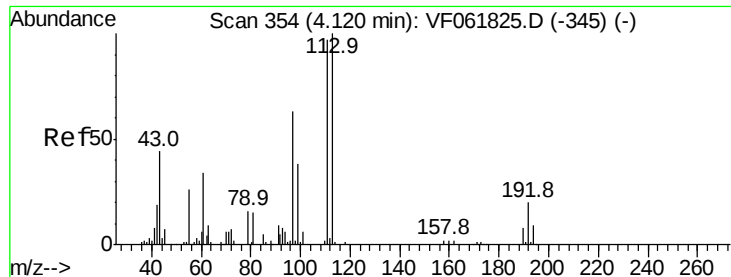
Ion Ratio Lower Upper

114 100

63 18.5 0.0 35.6

88 18.0 0.0 35.6





#35

Dibromofluoromethane

Concen: 51.478 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.02 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

VF0314SBS01

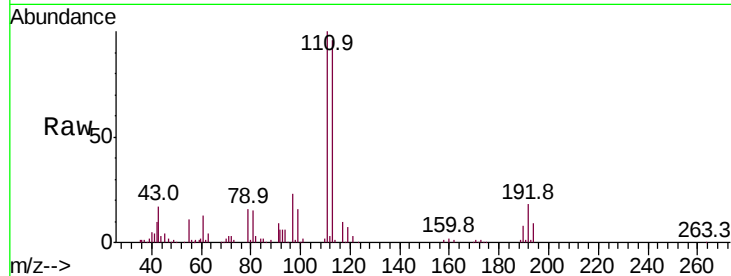
Tot Ion:113 Resp: 168482

Ion Ratio Lower Upper

113 100

111 104.6 77.6 116.4

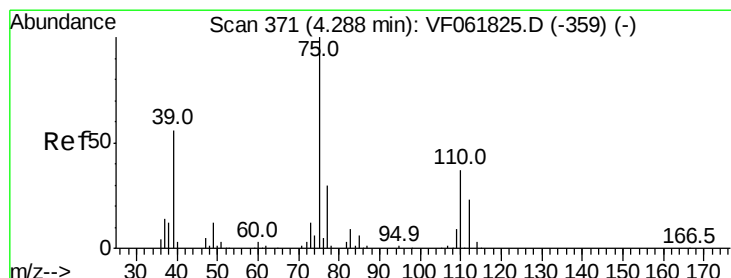
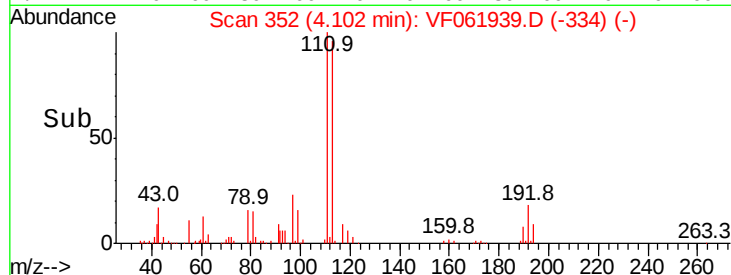
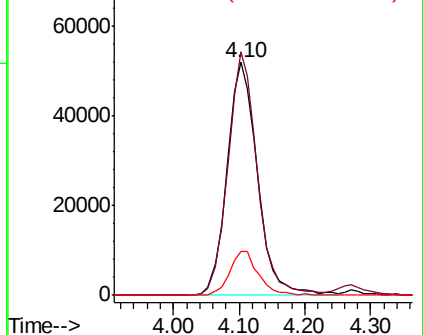
192 18.9 15.9 23.9



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



#36

1,1-Dichloropropene

Concen: 21.809 ug/l

RT: 4.27 min Scan# 369

Delta R.T. -0.02 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

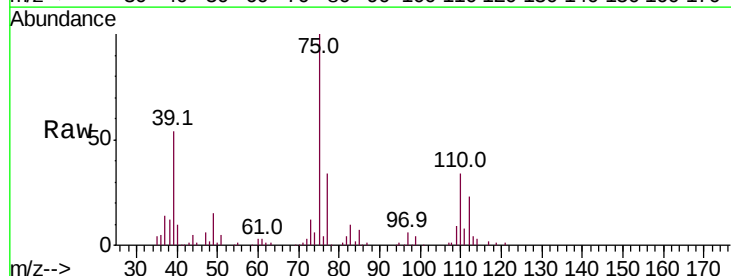
Tgt Ion: 75 Resp: 96616

Ion Ratio Lower Upper

75 100

110 34.4 18.6 55.6

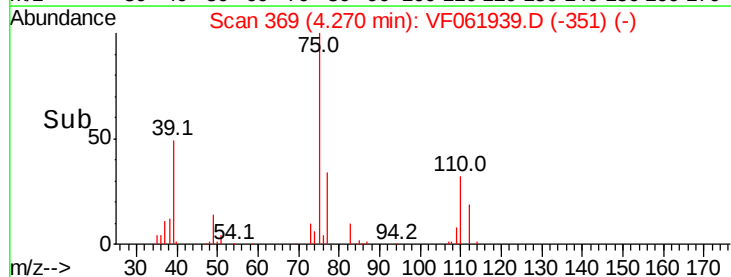
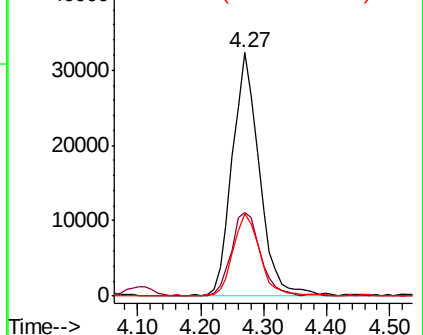
77 34.0 24.2 36.2

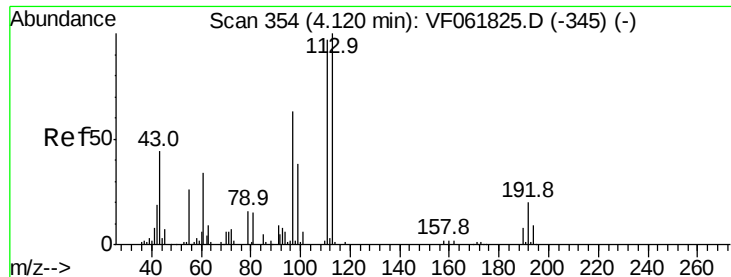


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0





#37

Ethyl Acetate

Concen: 21.727 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.02 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

VF0314SBS01

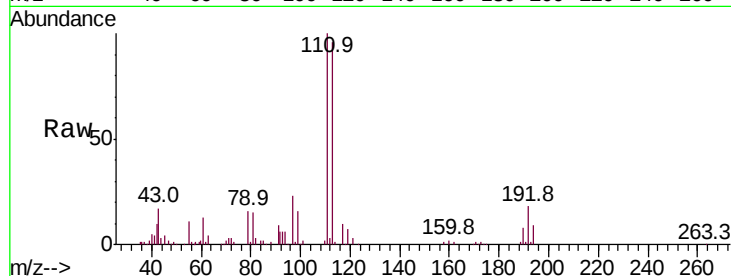
Tot Ion: 43 Resp: 40401

Ion Ratio Lower Upper

43 100

61 75.2 60.7 91.1

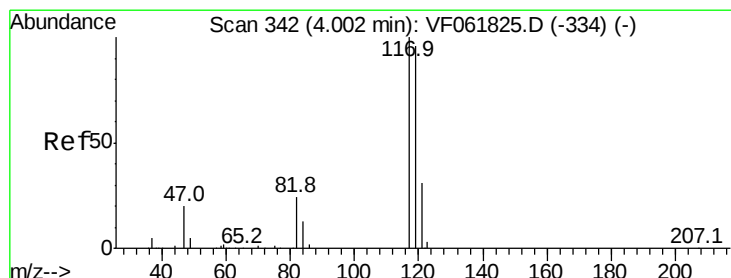
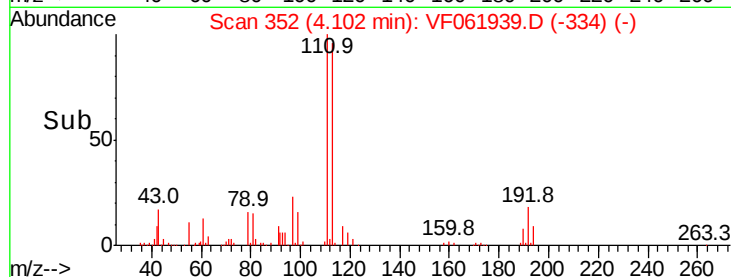
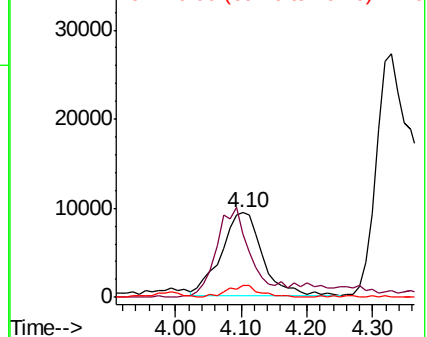
70 13.6 10.6 15.8



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



#38

Carbon Tetrachloride

Concen: 22.063 ug/l

RT: 3.98 min Scan# 340

Delta R.T. -0.02 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

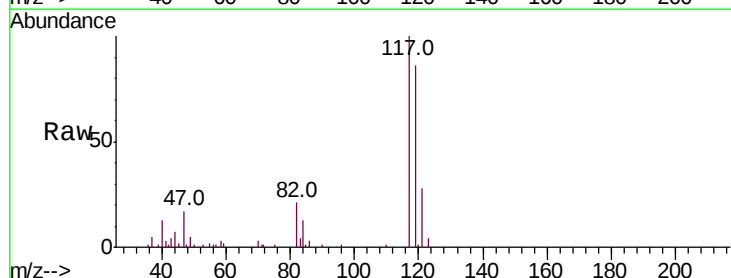
Tgt Ion: 117 Resp: 69191

Ion Ratio Lower Upper

117 100

119 86.5 76.6 114.8

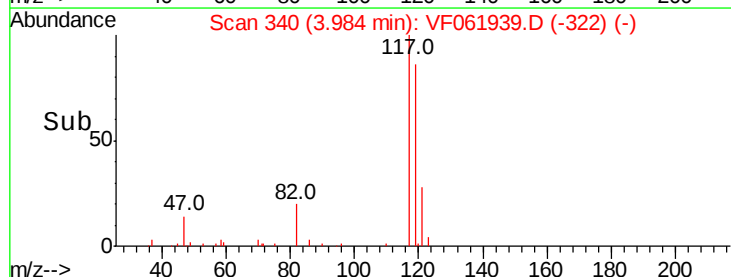
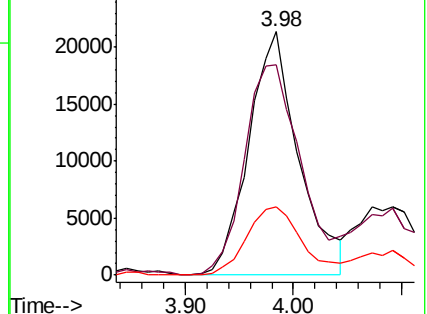
121 28.2 24.4 36.6

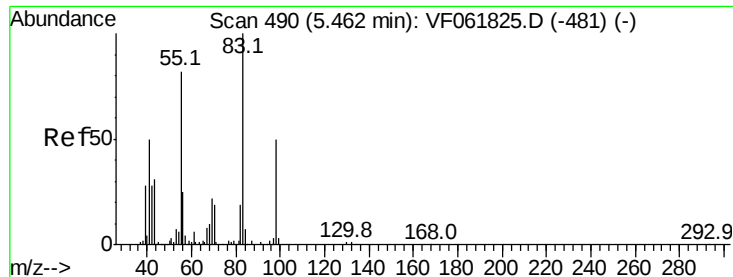


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

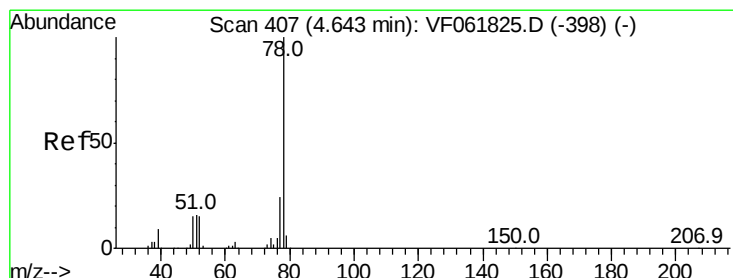
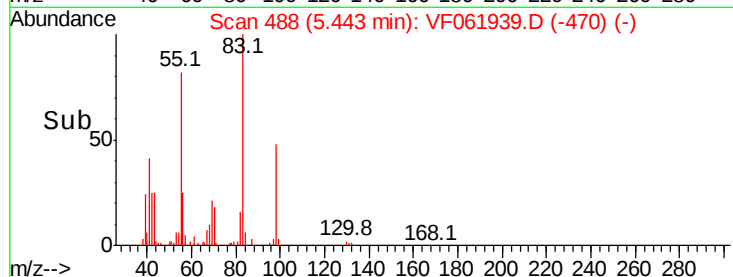
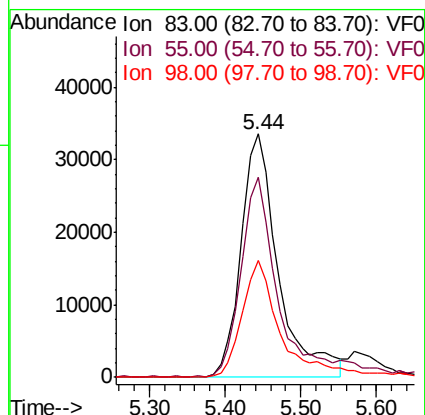
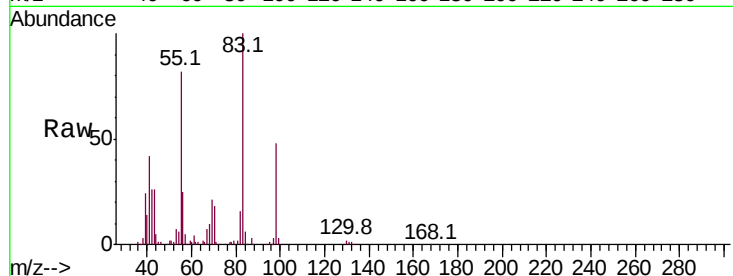




#39
Methylvlcvclohexane
Concen: 22.033 ug/l
RT: 5.44 min Scan# 488
Delta R.T. -0.02 min
Lab File: VF061939.D
Acq: 14 Mar 2019 15:28

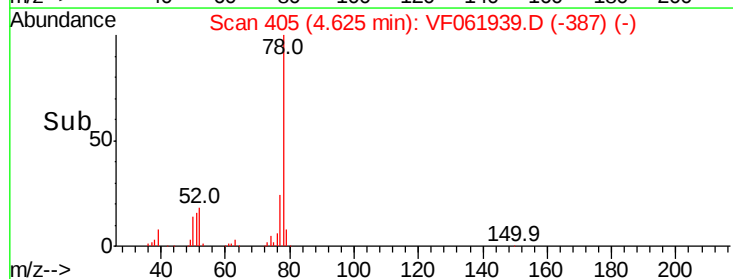
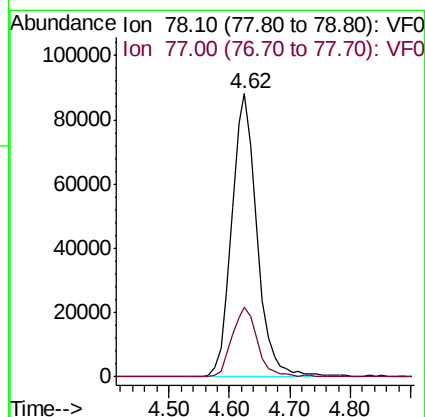
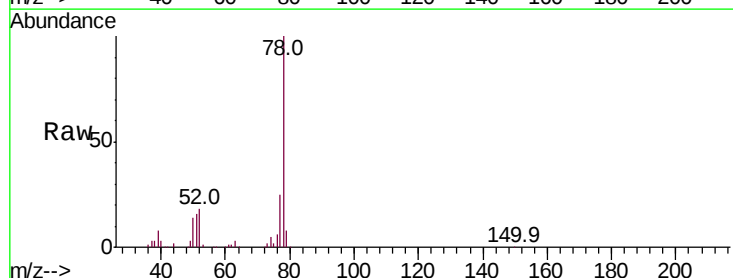
Instrument :
MSVOA_F
ClientSampleId :
VF0314SBS01

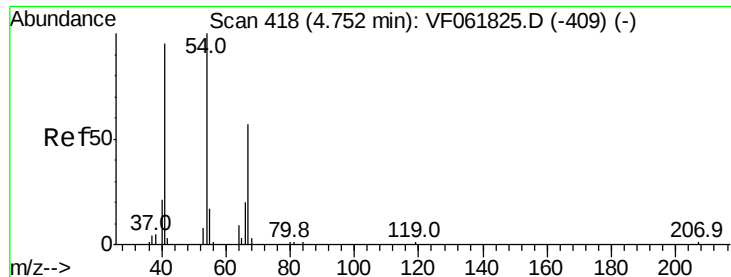
Tot Ion: 83 Resp: 115290
Ion Ratio Lower Upper
83 100
55 82.2 66.0 99.0
98 47.8 39.8 59.6



#40
Benzene
Concen: 22.009 ug/l
RT: 4.62 min Scan# 405
Delta R.T. -0.02 min
Lab File: VF061939.D
Acq: 14 Mar 2019 15:28

Tgt Ion: 78 Resp: 254859
Ion Ratio Lower Upper
78 100
77 24.5 19.5 29.3





#41

Methacrylonitrile

Concen: 21.925 ug/l

RT: 4.73 min Scan# 416

Delta R.T. -0.02 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

VF0314SBS01

Tot Ion: 41 Resp: 22337

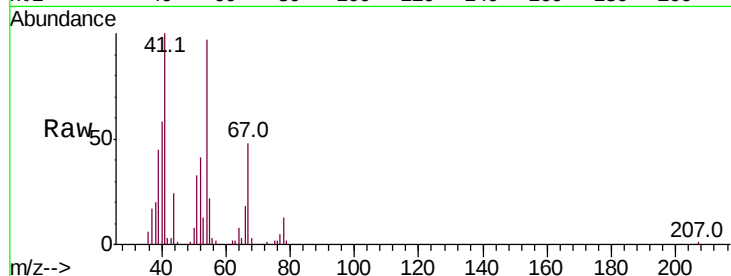
Ion Ratio Lower Upper

41 100

39 45.2 43.0 64.6

67 47.7 47.8 71.8#

52 41.4 40.5 60.7

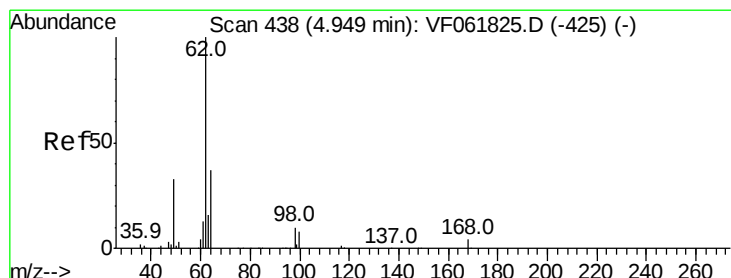
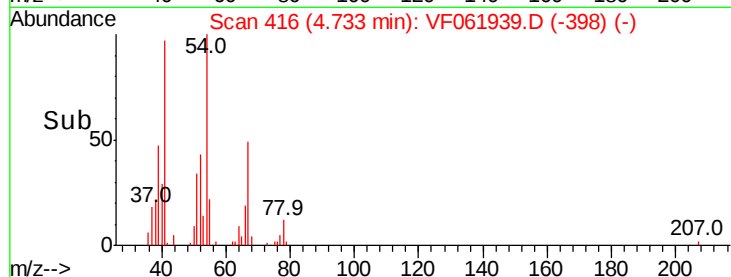
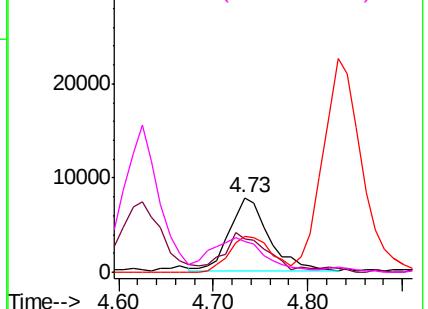


Abundance Ion 41.00 (40.70 to 41.70): VF0

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: 20.655 ug/l

RT: 4.93 min Scan# 436

Delta R.T. -0.02 min

Lab File: VF061939.D

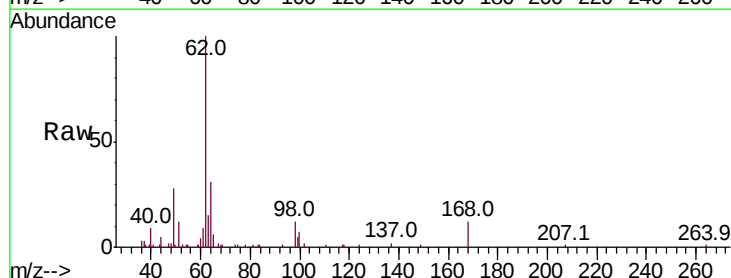
Acq: 14 Mar 2019 15:28

Tgt Ion: 62 Resp: 59605

Ion Ratio Lower Upper

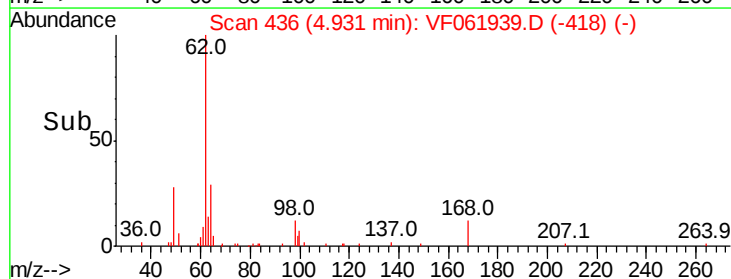
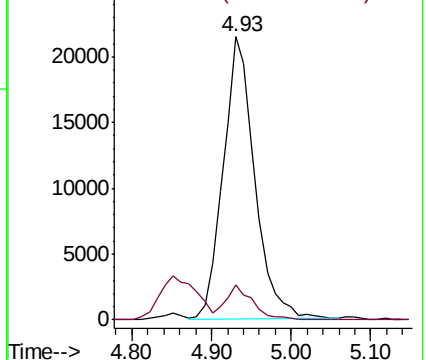
62 100

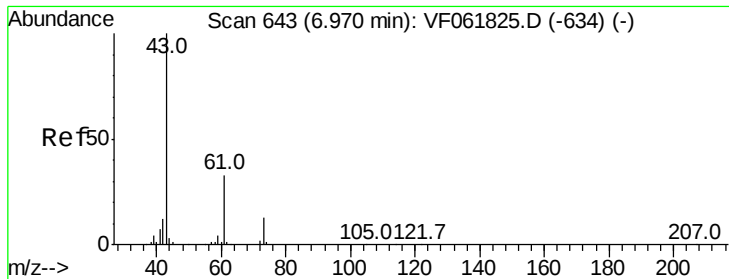
98 12.5 0.0 21.0



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#43

Isopropyl Acetate

Concen: 20.330 ug/l

RT: 6.95 min Scan# 641

Delta R.T. -0.02 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

VF0314SBS01

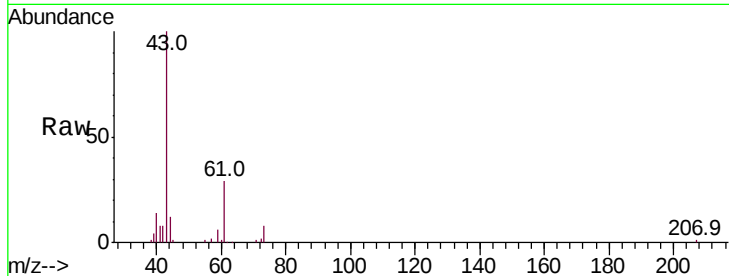
Tot Ion: 43 Resp: 46598

Ion Ratio Lower Upper

43 100

61 28.7 26.1 39.1

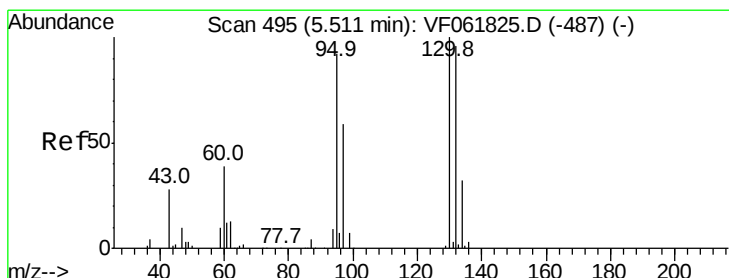
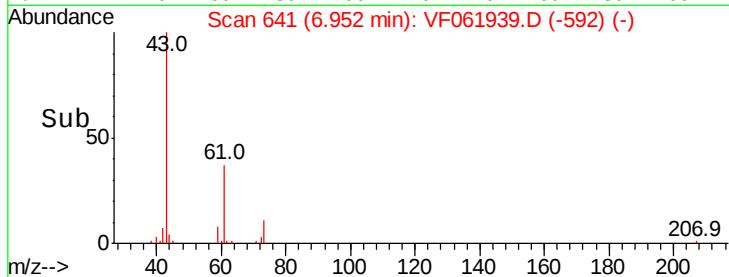
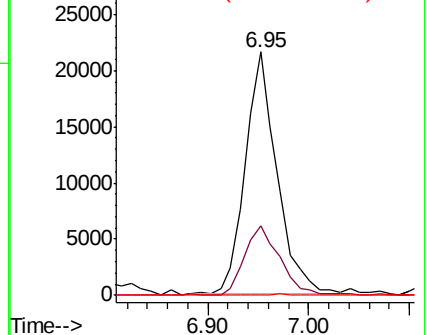
87 0.0 0.0 0.0



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



#44

Trichloroethene

Concen: 22.098 ug/l

RT: 5.49 min Scan# 493

Delta R.T. -0.02 min

Lab File: VF061939.D

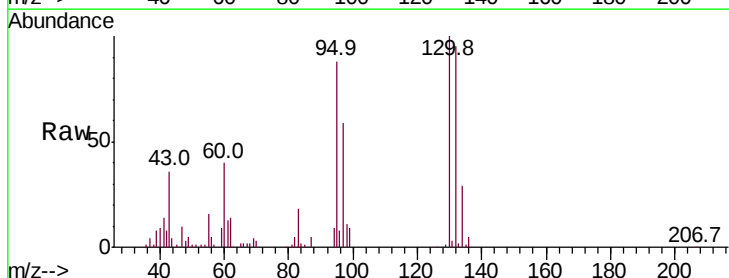
Acq: 14 Mar 2019 15:28

Tgt Ion:130 Resp: 79521

Ion Ratio Lower Upper

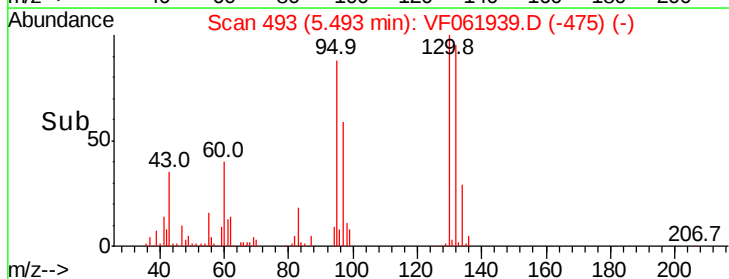
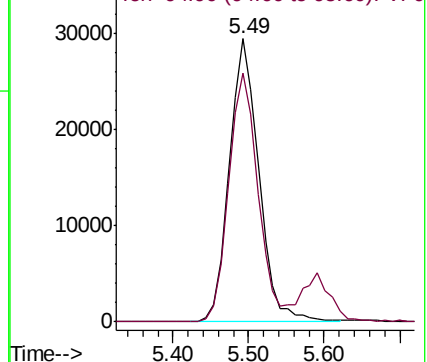
130 100

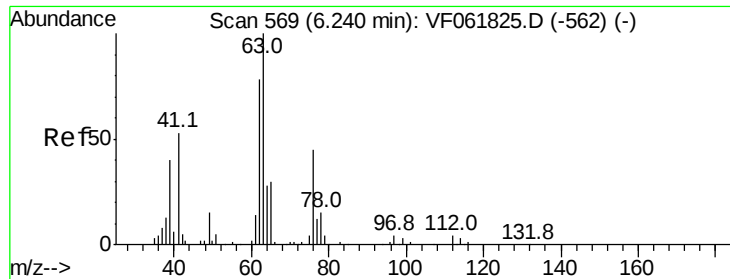
95 87.8 0.0 184.0



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 21.728 ug/l

RT: 6.22 min Scan# 567

Delta R.T. -0.02 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

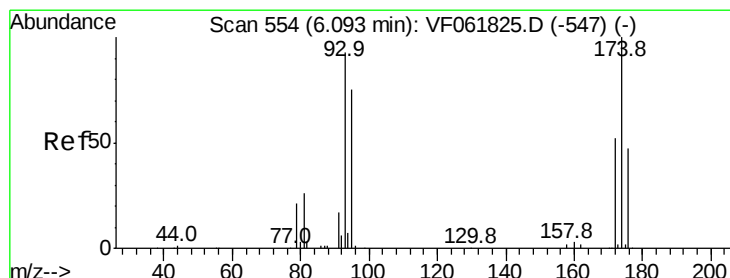
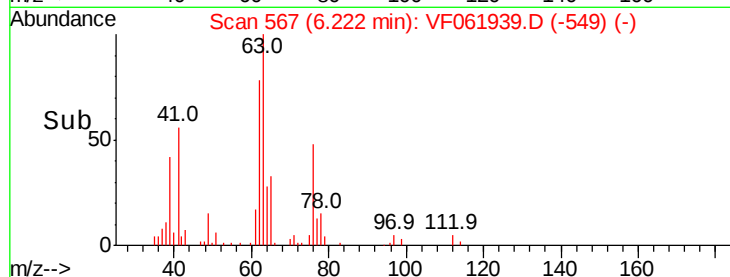
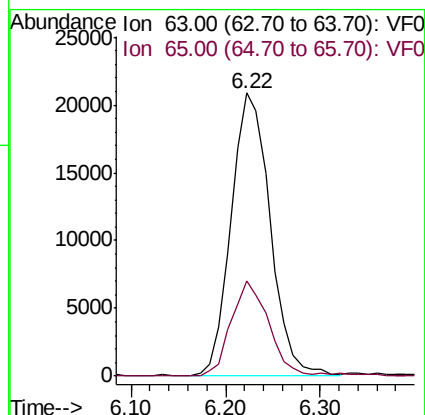
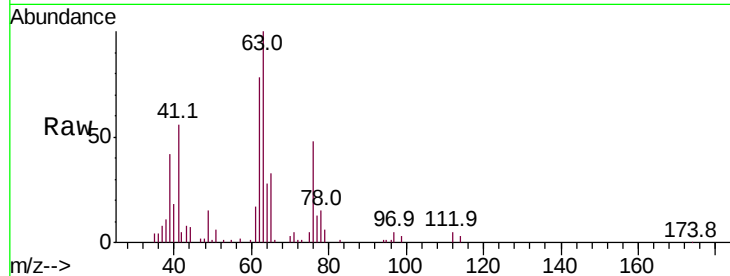
VF0314SBS01

Tot Ion: 63 Resp: 59831

Ion Ratio Lower Upper

63 100

65 33.5 24.0 36.0



#46

Dibromomethane

Concen: 20.972 ug/l

RT: 6.07 min Scan# 552

Delta R.T. -0.02 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

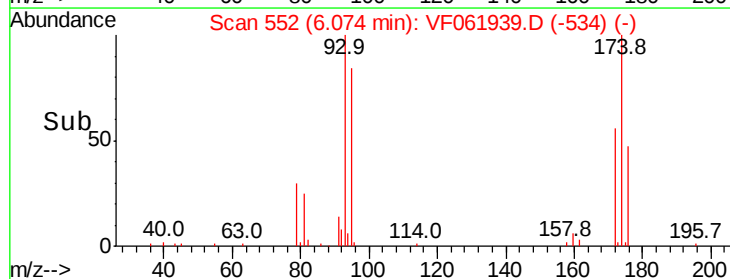
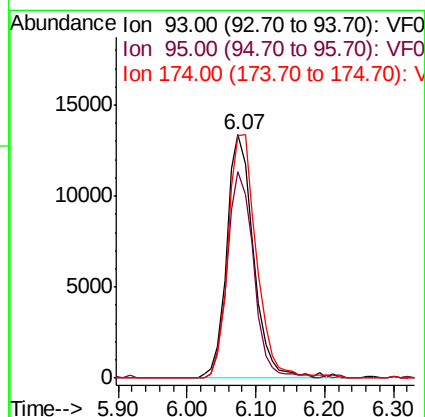
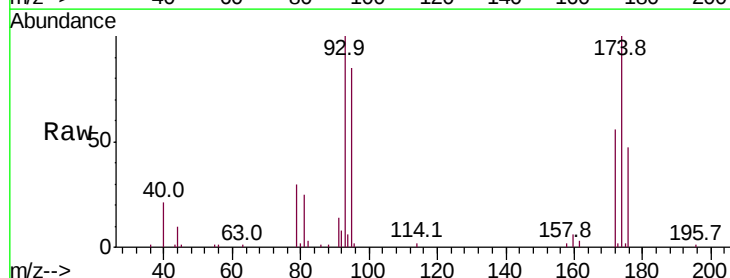
Tgt Ion: 93 Resp: 36344

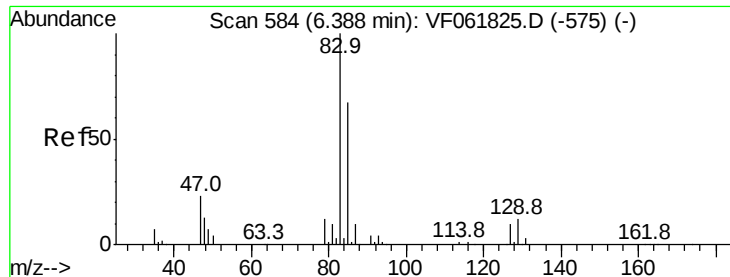
Ion Ratio Lower Upper

93 100

95 84.7 64.4 96.6

174 99.9 85.8 128.6





#47

Bromodichloromethane

Concen: 21.802 ug/l

RT: 6.37 min Scan# 582

Delta R.T. -0.02 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

VF0314SBS01

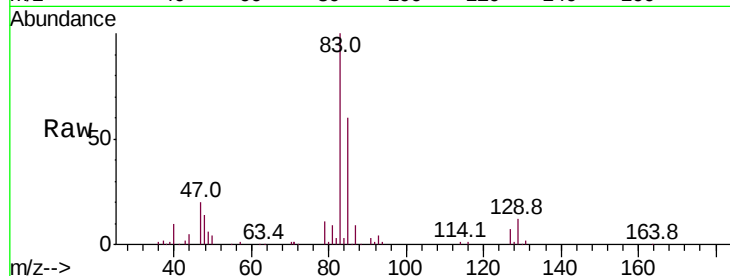
Tot Ion: 83 Resp: 83473

Ion Ratio Lower Upper

83 100

85 60.5 53.6 80.4

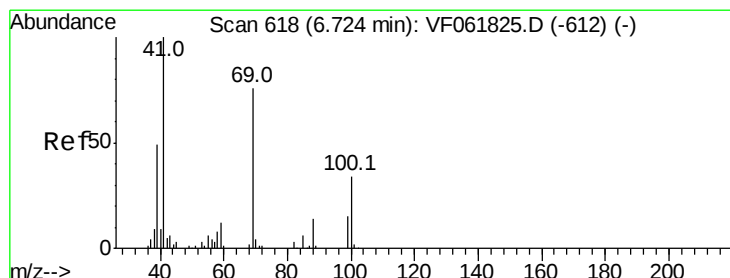
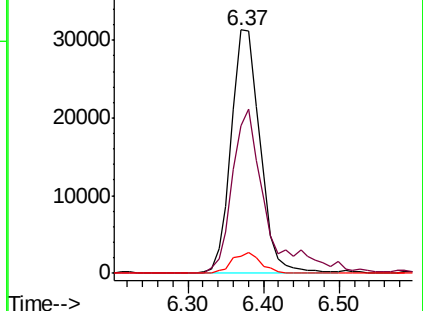
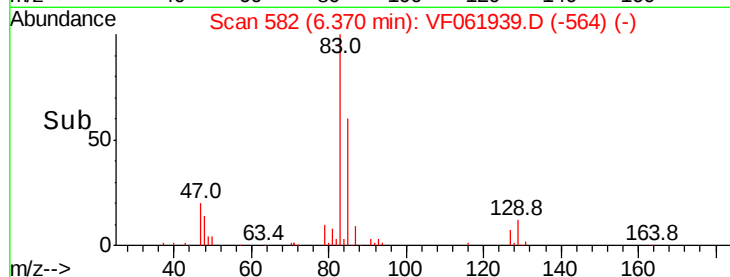
127 6.9 8.1 12.1#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 19.677 ug/l

RT: 6.71 min Scan# 616

Delta R.T. -0.02 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

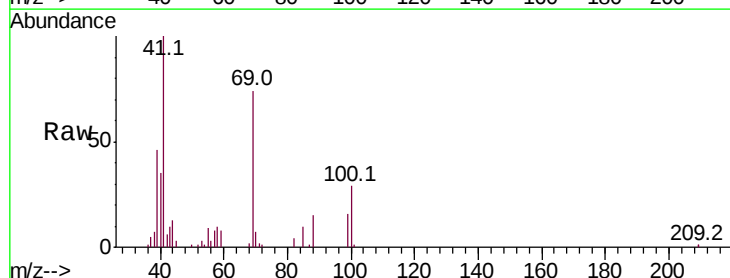
Tgt Ion: 41 Resp: 28544

Ion Ratio Lower Upper

41 100

69 73.7 60.4 90.6

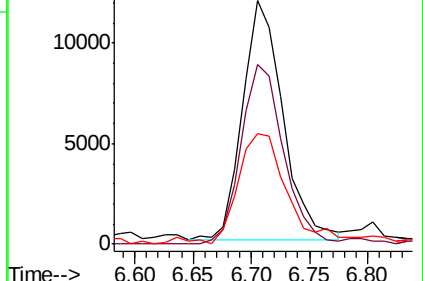
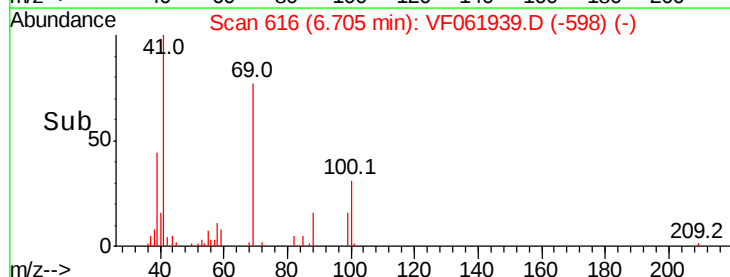
39 45.6 39.7 59.5

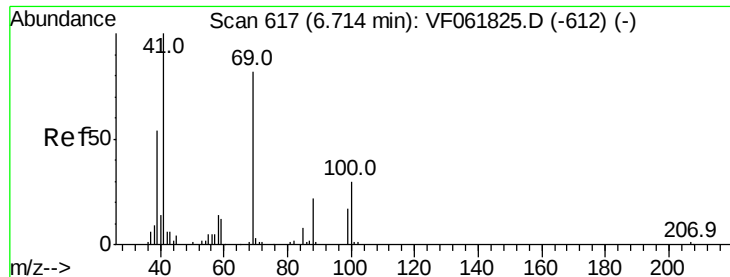


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 396.056 ug/l

RT: 6.71 min Scan# 616

Delta R.T. -0.01 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

VF0314SBS01

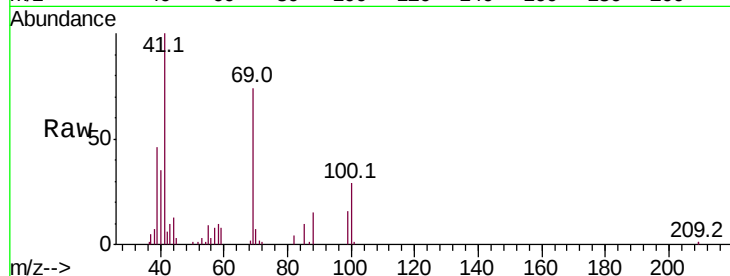
Tot Ion: 88 Resp: 5252

Ion Ratio Lower Upper

88 100

43 64.7 28.4 42.6#

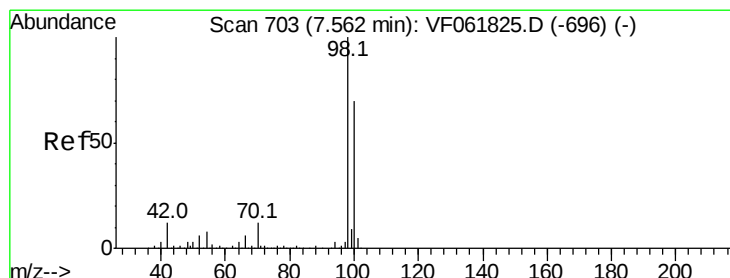
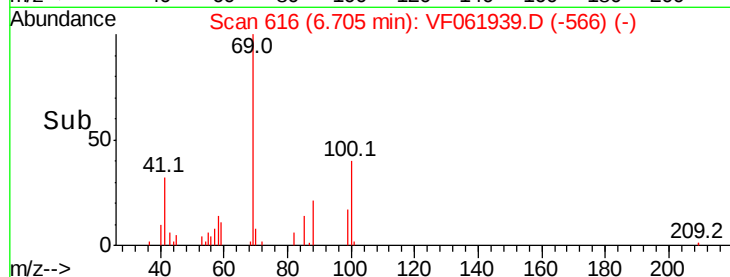
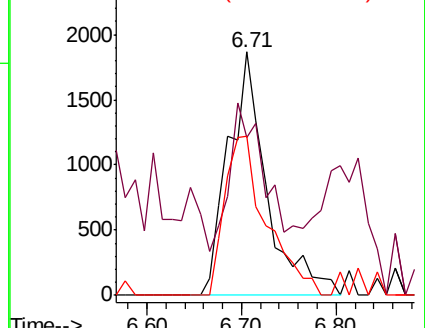
58 65.1 50.7 76.1



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: 50.292 ug/l

RT: 7.54 min Scan# 701

Delta R.T. -0.02 min

Lab File: VF061939.D

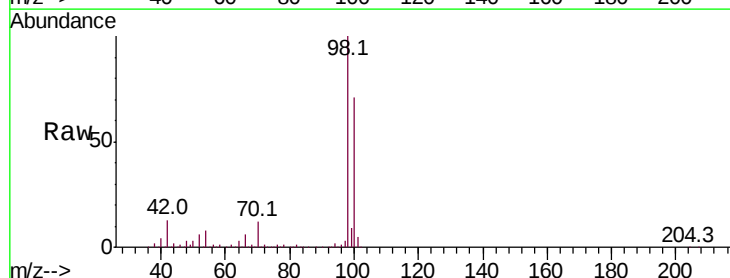
Acq: 14 Mar 2019 15:28

Tgt Ion: 98 Resp: 489241

Ion Ratio Lower Upper

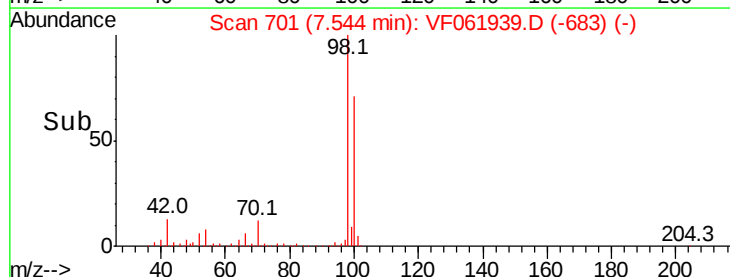
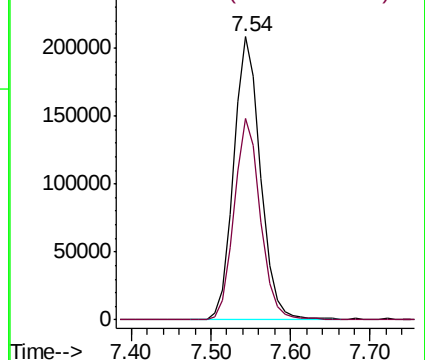
98 100

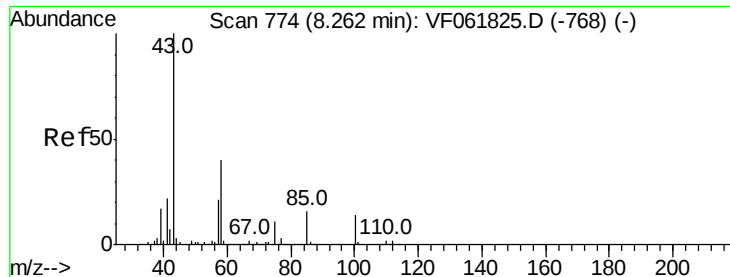
100 71.2 56.0 84.0



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: 111.417 ug/l

RT: 8.25 min Scan# 773

Delta R.T. -0.01 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

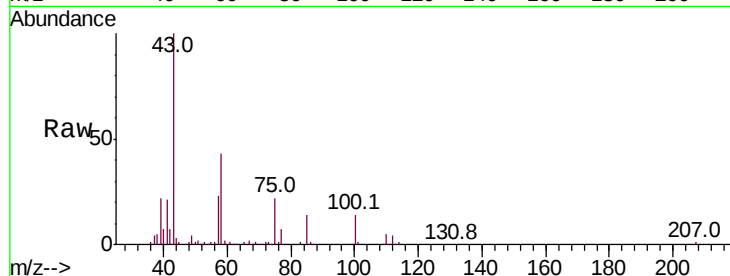
VF0314SBS01

Tot Ion: 43 Resp: 176501

Ion Ratio Lower Upper

43 100

58 43.1 31.8 47.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.25

60000

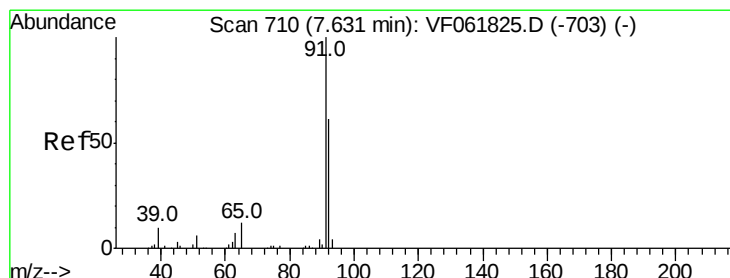
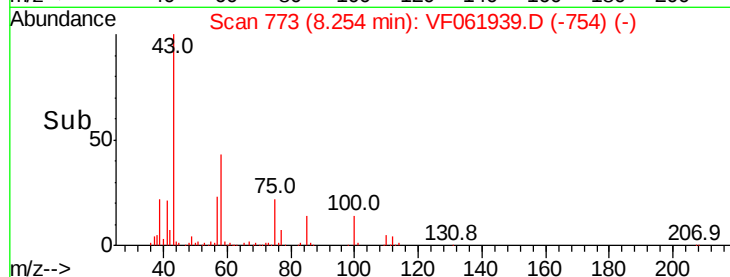
40000

20000

0

8.20 8.30

Time-->



#52

Toluene

Concen: 20.918 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.02 min

Lab File: VF061939.D

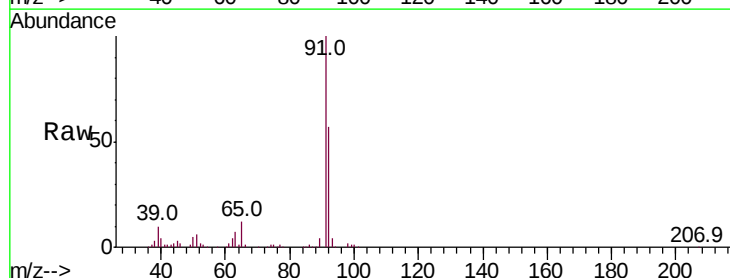
Acq: 14 Mar 2019 15:28

Tgt Ion: 92 Resp: 143298

Ion Ratio Lower Upper

92 100

91 177.0 132.0 198.0



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

120000

100000

80000

60000

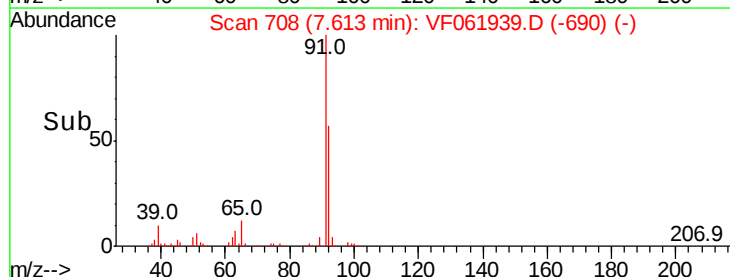
40000

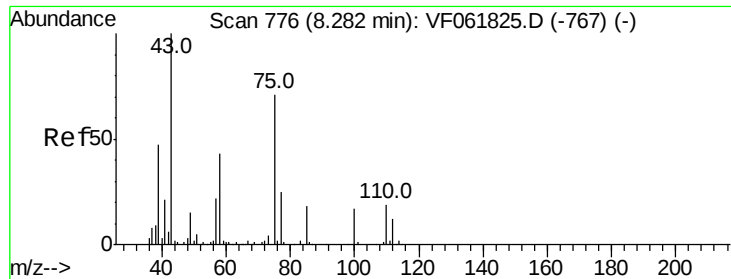
20000

0

7.50 7.60 7.70

Time-->





#53

t-1,3-Dichloropropene

Concen: 20.269 ug/l

RT: 8.27 min Scan# 775

Delta R.T. -0.01 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

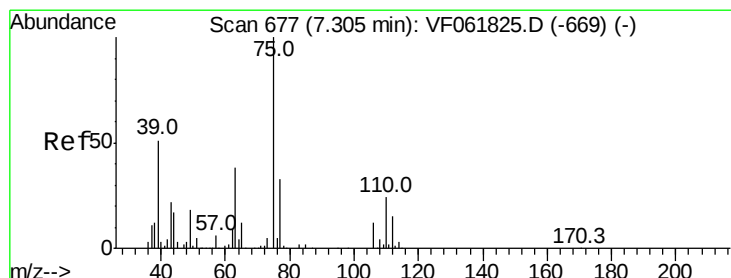
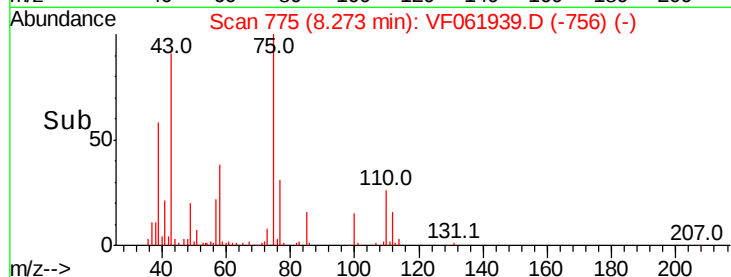
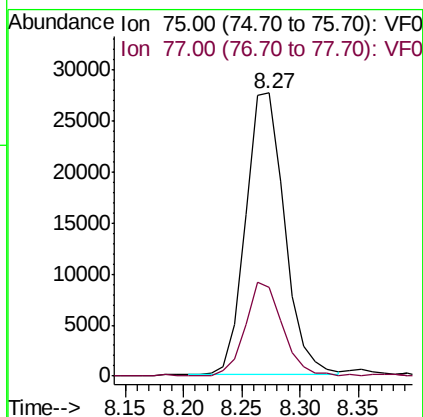
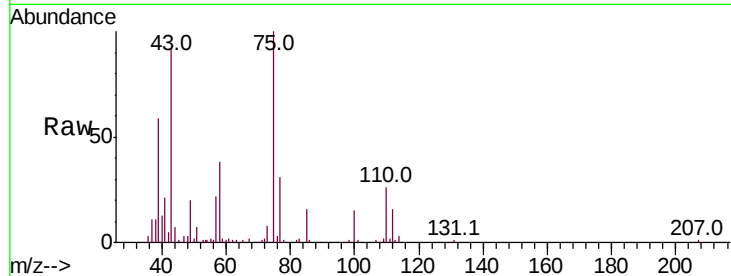
VF0314SBS01

Tot Ion: 75 Resp: 64058

Ion Ratio Lower Upper

75 100

77 31.3 28.0 42.0



#54

cis-1,3-Dichloropropene

Concen: 21.340 ug/l

RT: 7.29 min Scan# 675

Delta R.T. -0.02 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

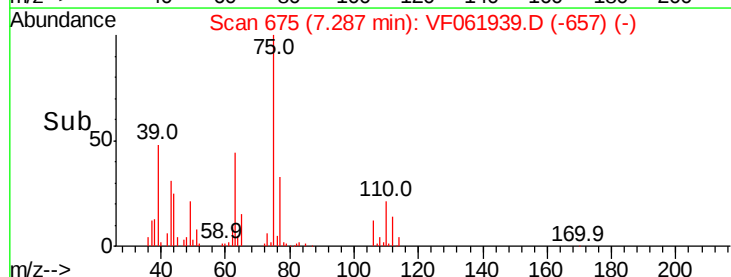
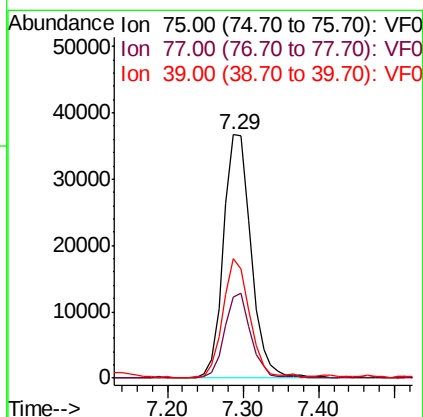
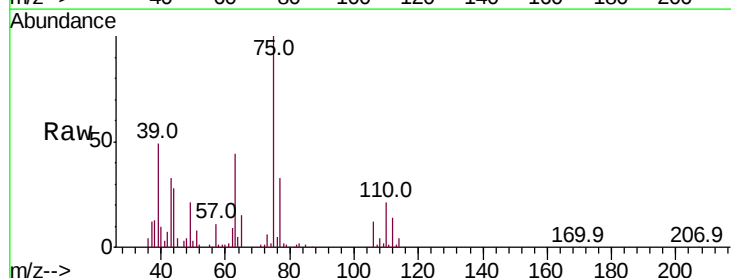
Tgt Ion: 75 Resp: 93025

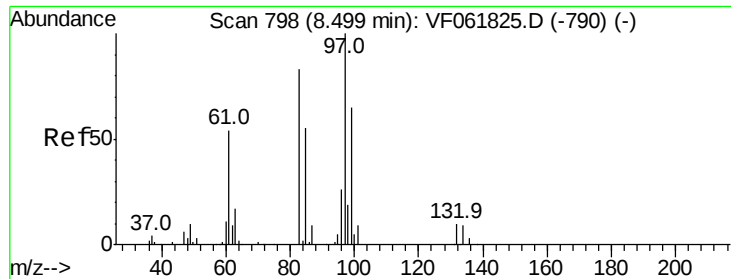
Ion Ratio Lower Upper

75 100

77 33.2 26.3 39.5

39 49.3 40.8 61.2





#55

1,1,2-Trichloroethane

Concen: 21.401 ug/l

RT: 8.48 min Scan# 796

Delta R.T. -0.02 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

VF0314SBS01

Tot Ion: 97 Resp: 42240

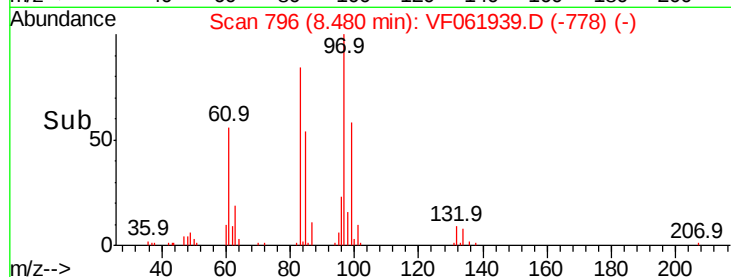
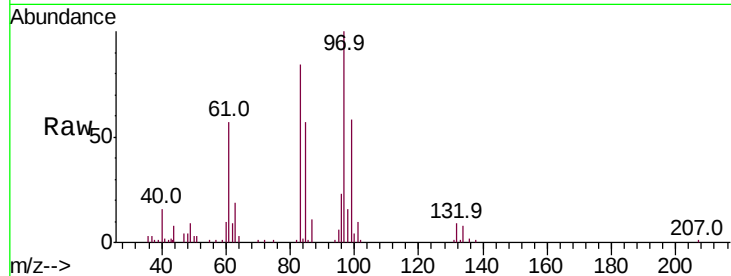
Ion	Ratio	Lower	Upper
97	100		
83	83.6	66.5	99.7
85	57.1	44.2	66.2
99	58.4	51.8	77.6

97 100

83 83.6 66.5 99.7

85 57.1 44.2 66.2

99 58.4 51.8 77.6

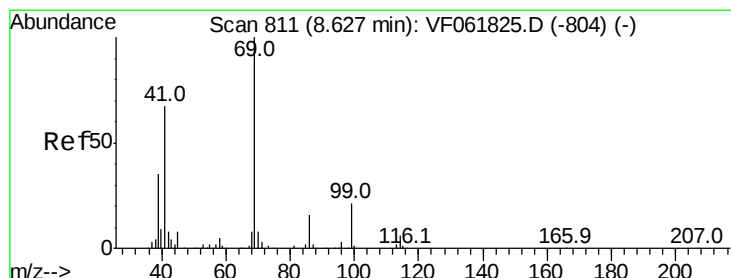
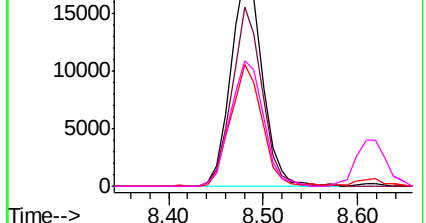


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 21.193 ug/l

RT: 8.61 min Scan# 809

Delta R.T. -0.02 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

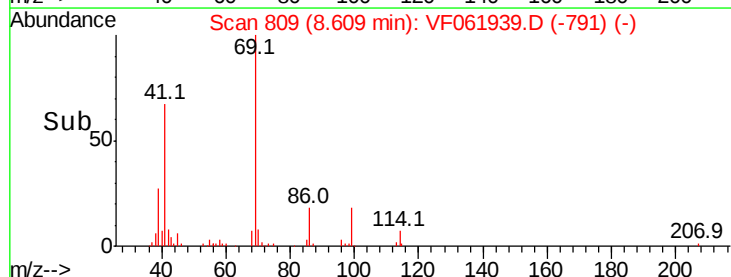
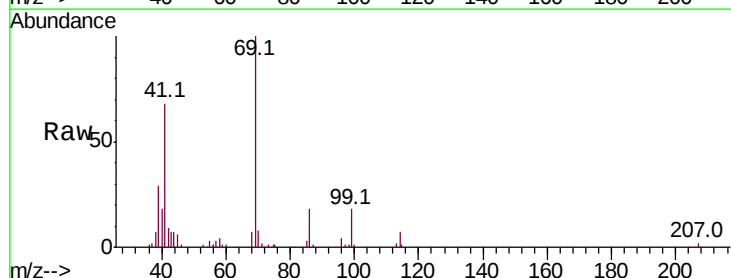
Tgt Ion: 69 Resp: 47142

Ion	Ratio	Lower	Upper
69	100		
41	68.2	53.9	80.9
39	28.8	28.3	42.5

69 100

41 68.2 53.9 80.9

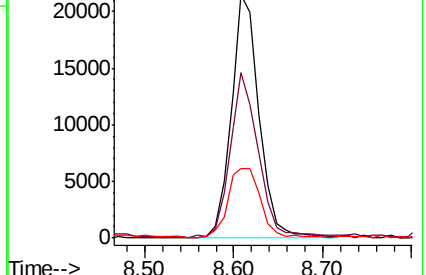
39 28.8 28.3 42.5

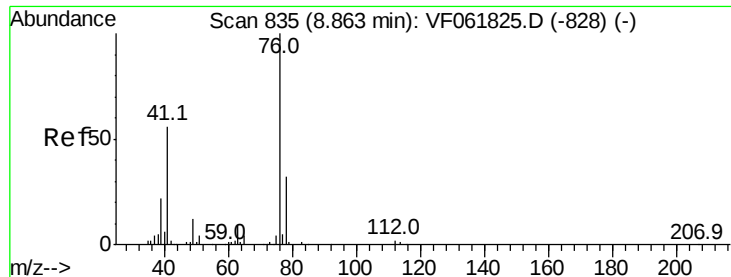


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 22.340 ug/l

RT: 8.85 min Scan# 833

Delta R.T. -0.02 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

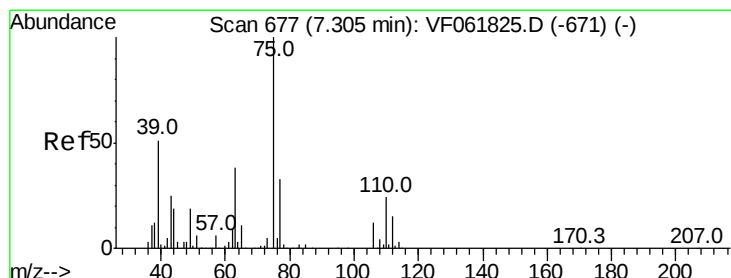
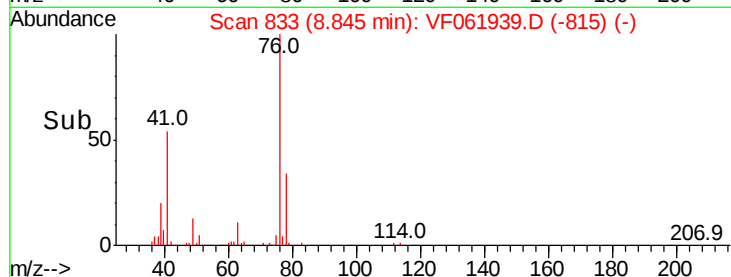
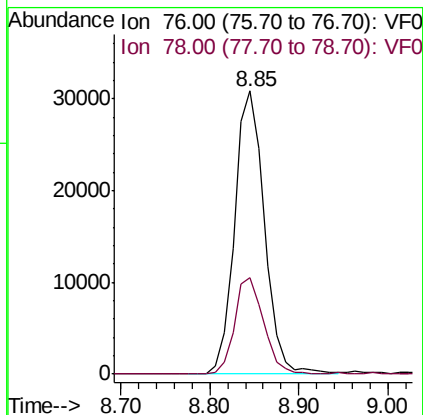
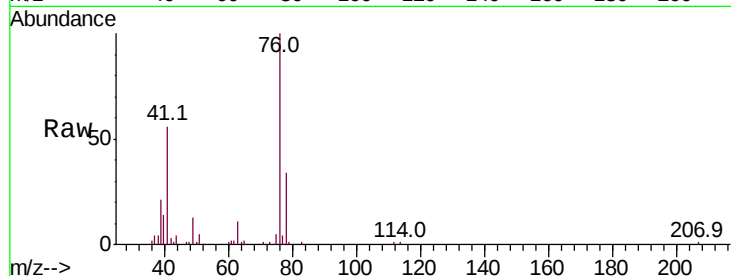
VF0314SBS01

Tot Ion: 76 Resp: 72109

Ion Ratio Lower Upper

76 100

78 33.9 25.4 38.2



#58

2-Chloroethyl Vinyl ether

Concen: 103.262 ug/l

RT: 7.29 min Scan# 675

Delta R.T. -0.02 min

Lab File: VF061939.D

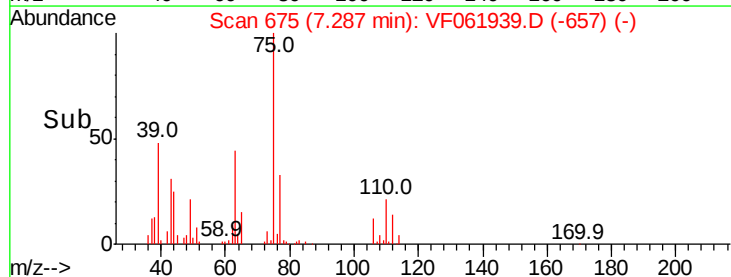
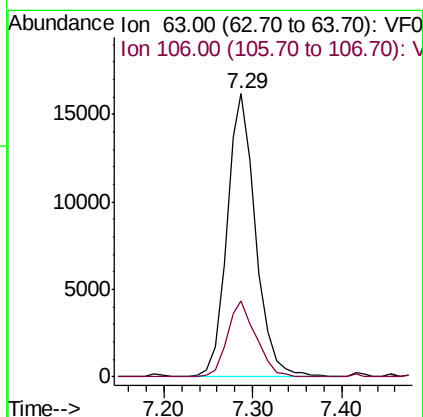
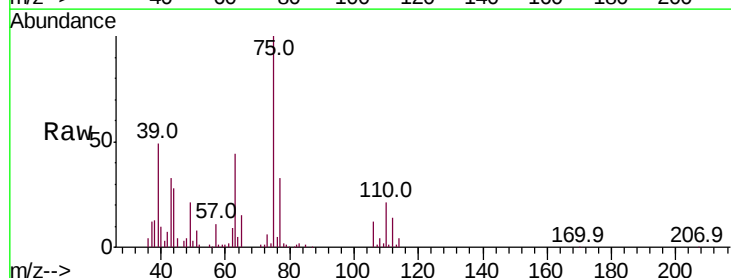
Acq: 14 Mar 2019 15:28

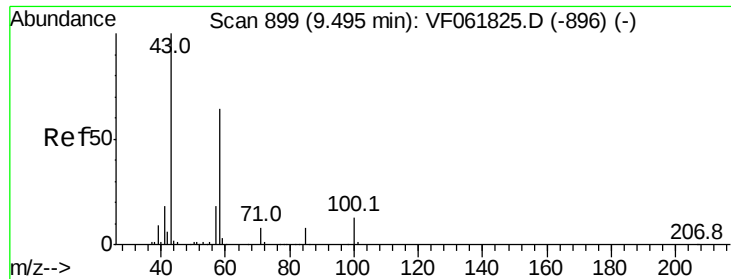
Tgt Ion: 63 Resp: 36336

Ion Ratio Lower Upper

63 100

106 26.7 24.3 36.5

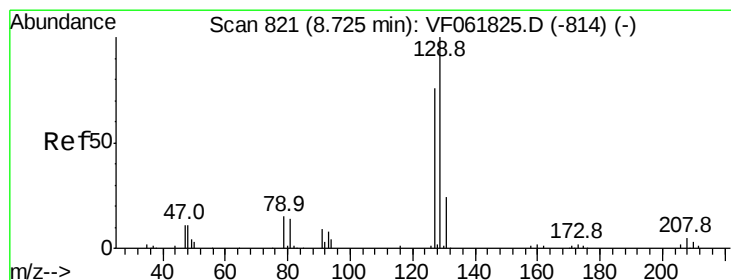
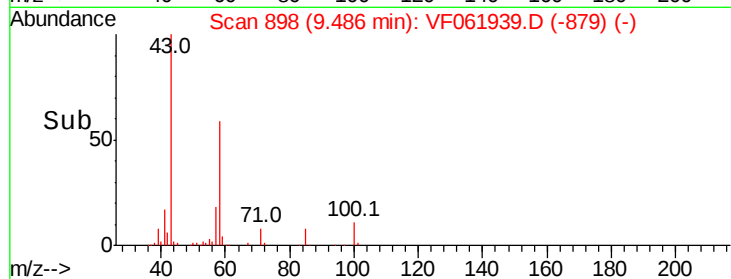
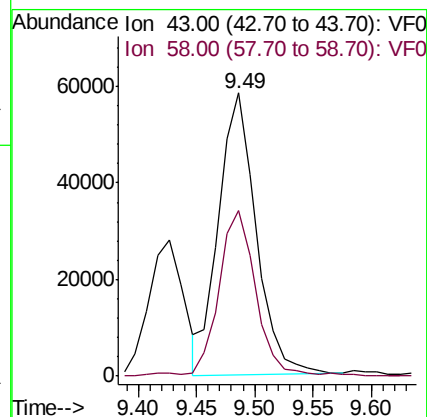
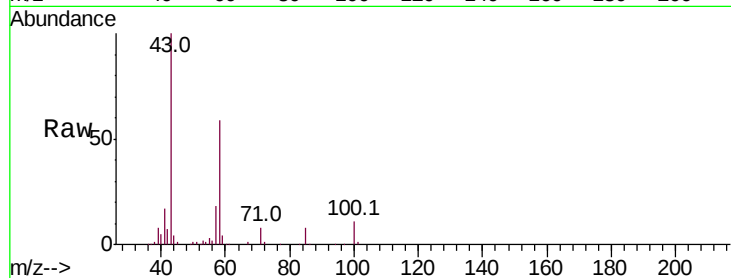




#59
2-Hexanone
Concen: 114.154 ug/l
RT: 9.49 min Scan# 898
Delta R.T. -0.01 min
Lab File: VF061939.D
Acq: 14 Mar 2019 15:28

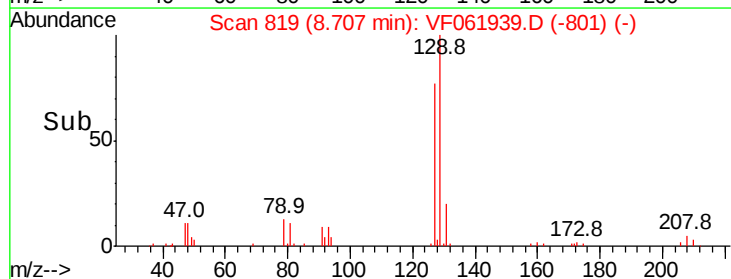
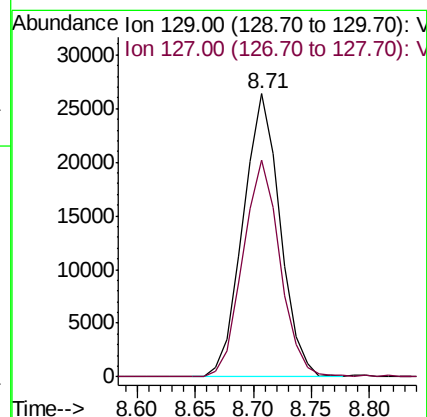
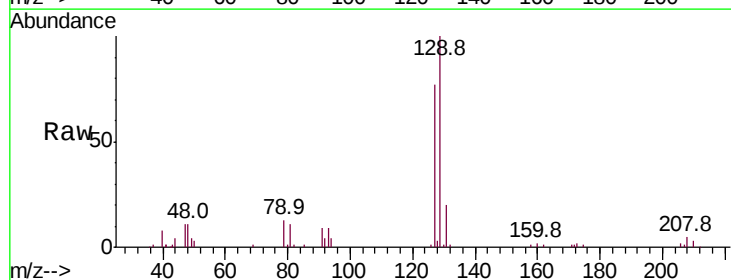
Instrument :
MSVOA_F
ClientSampleId :
VF0314SBS01

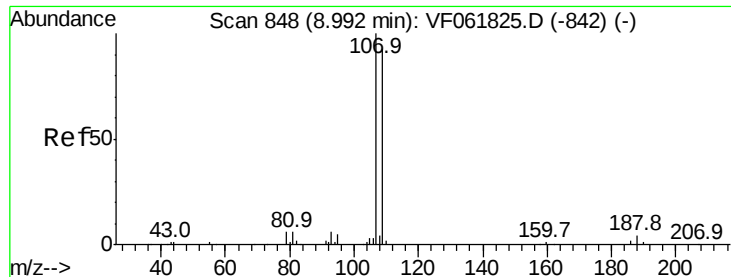
Tot Ion: 43 Resp: 130459
Ion Ratio Lower Upper
43 100
58 58.5 28.8 86.4



#60
Dibromochloromethane
Concen: 20.665 ug/l
RT: 8.71 min Scan# 819
Delta R.T. -0.02 min
Lab File: VF061939.D
Acq: 14 Mar 2019 15:28

Tgt Ion: 129 Resp: 58133
Ion Ratio Lower Upper
129 100
127 76.7 38.2 114.6





#61

1,2-Dibromoethane

Concen: 20.502 ug/l

RT: 8.97 min Scan# 846

Delta R.T. -0.02 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

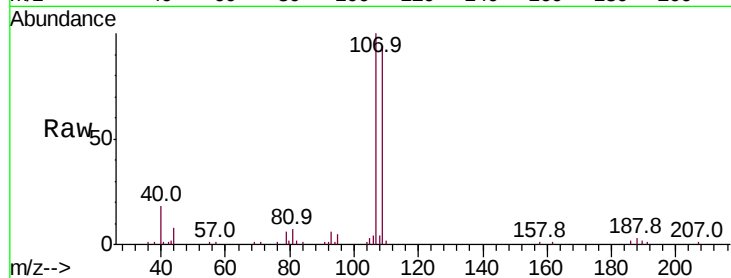
VF0314SBS01

Tot Ion:107 Resp: 44500

Ion Ratio Lower Upper

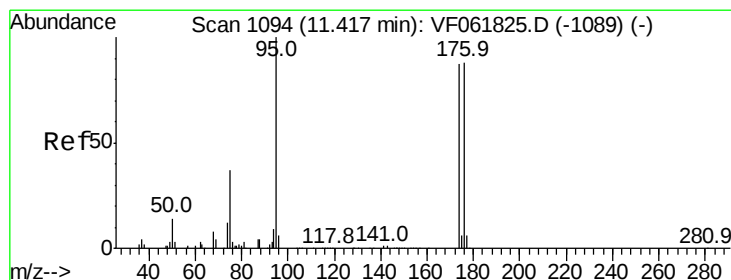
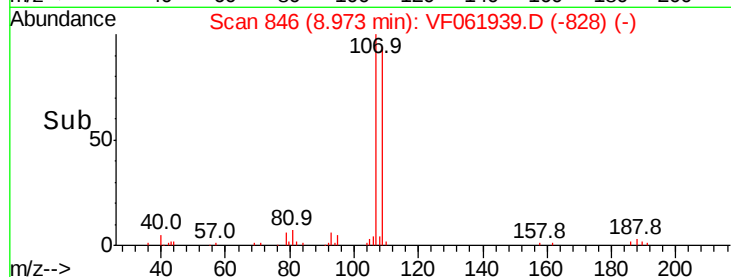
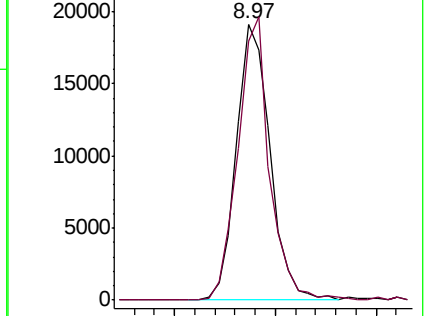
107 100

109 93.7 74.6 112.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 49.197 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.02 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

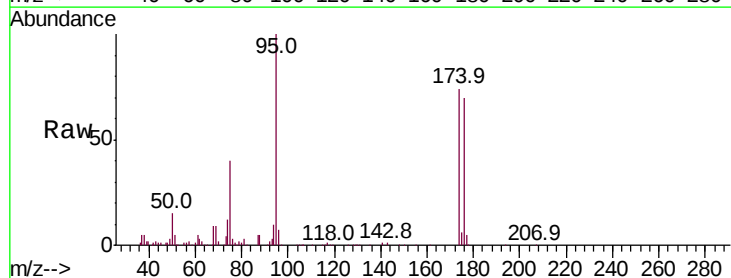
Tgt Ion: 95 Resp: 187478

Ion Ratio Lower Upper

95 100

174 74.5 0.0 174.0

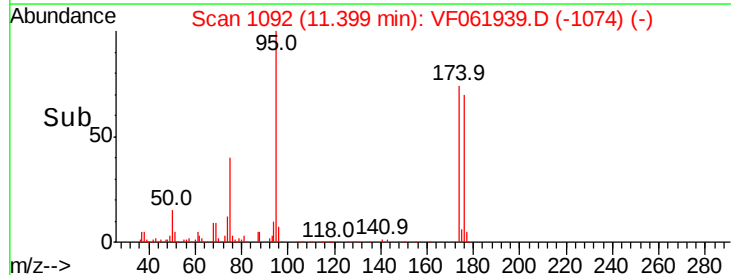
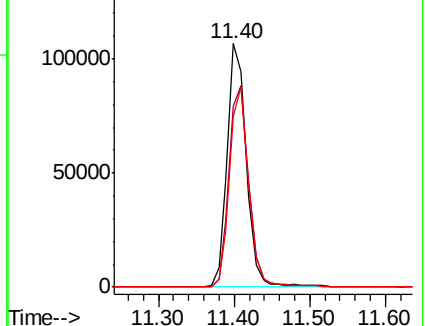
176 69.9 0.0 175.2

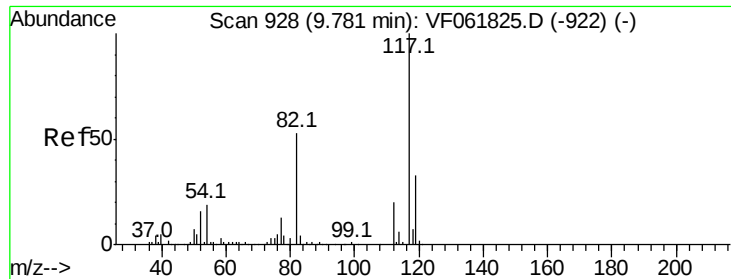


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

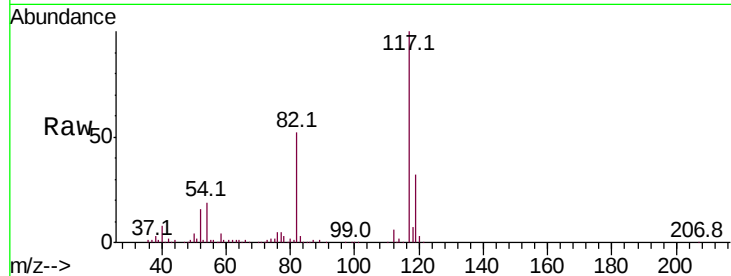




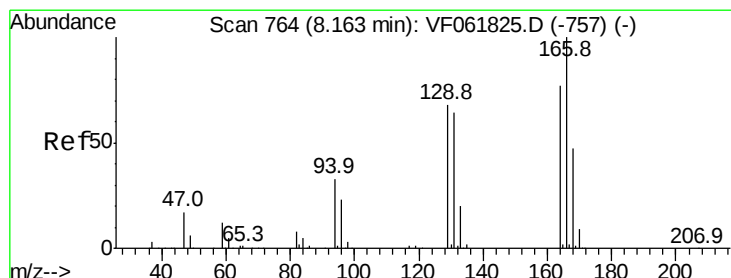
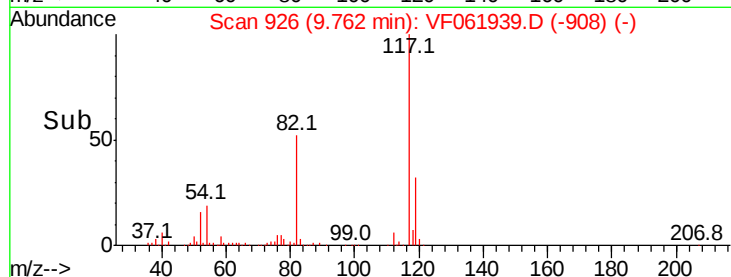
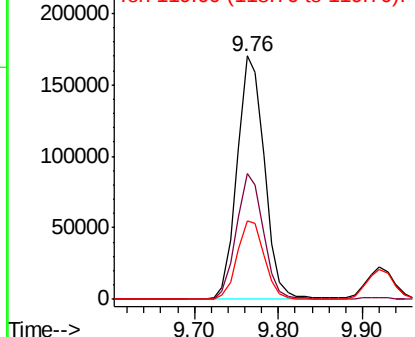
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.02 min
Lab File: VF061939.D
Acq: 14 Mar 2019 15:28

Instrument :
MSVOA_F
ClientSampleId :
VF0314SBS01

Tot Ion:117 Resp: 384948
Ion Ratio Lower Upper
117 100
82 51.9 42.6 63.8
119 32.2 26.0 39.0

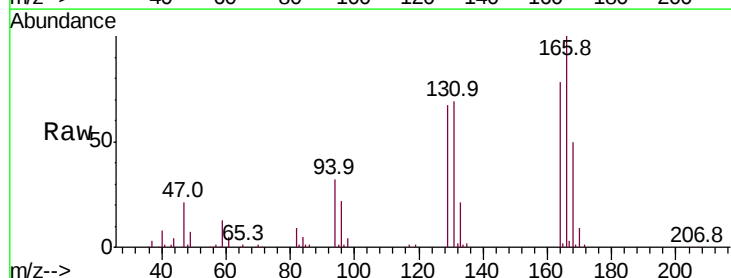


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

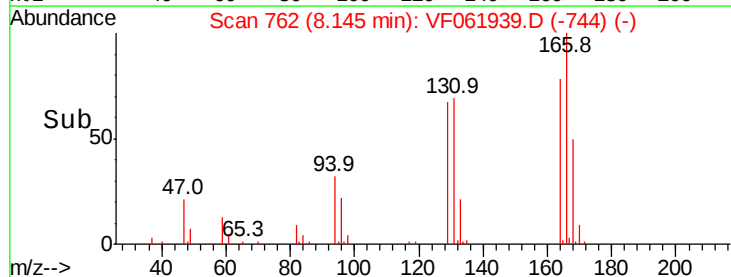
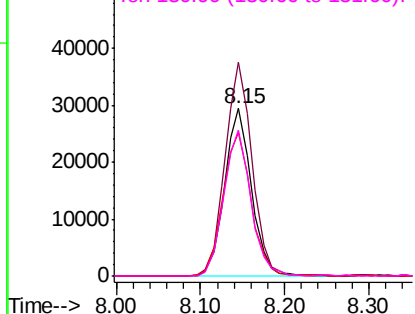


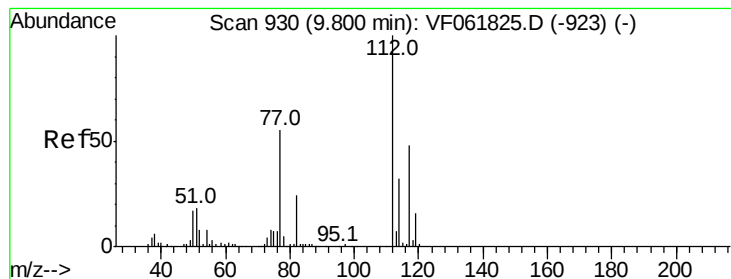
#64
Tetrachloroethene
Concen: 21.842 ug/l
RT: 8.15 min Scan# 762
Delta R.T. -0.02 min
Lab File: VF061939.D
Acq: 14 Mar 2019 15:28

Tgt Ion:164 Resp: 64608
Ion Ratio Lower Upper
164 100
166 127.8 103.4 155.0
129 86.1 69.9 104.9
131 87.7 66.4 99.6



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V





#65

Chlorobenzene

Concen: 22.364 ug/l

RT: 9.79 min Scan# 929

Delta R.T. -0.01 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

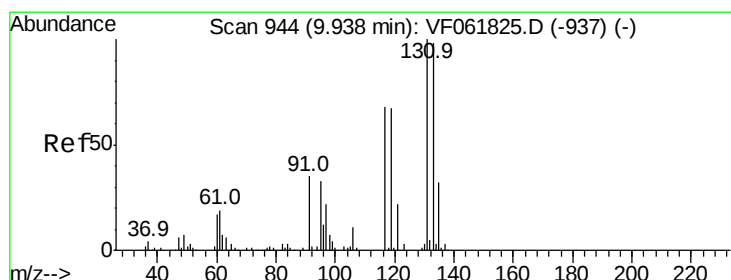
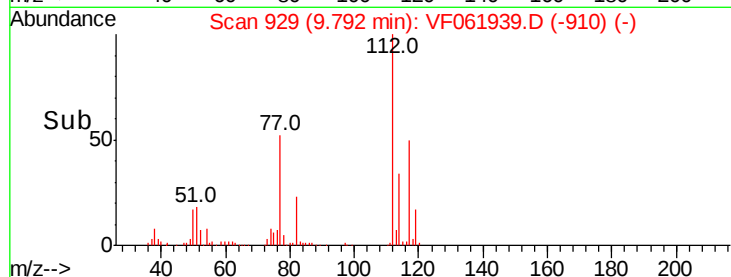
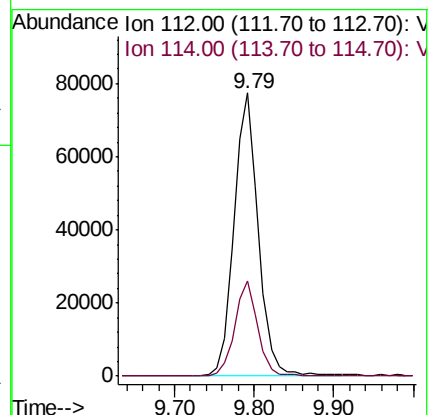
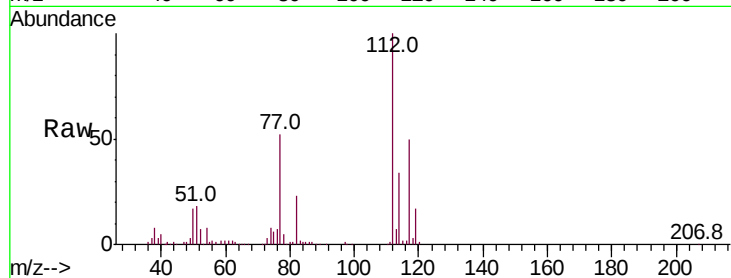
VF0314SBS01

Tot Ion:112 Resp: 165395

Ion Ratio Lower Upper

112 100

114 33.6 25.5 38.3



#66

1,1,1,2-Tetrachloroethane

Concen: 23.908 ug/l

RT: 9.92 min Scan# 942

Delta R.T. -0.02 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

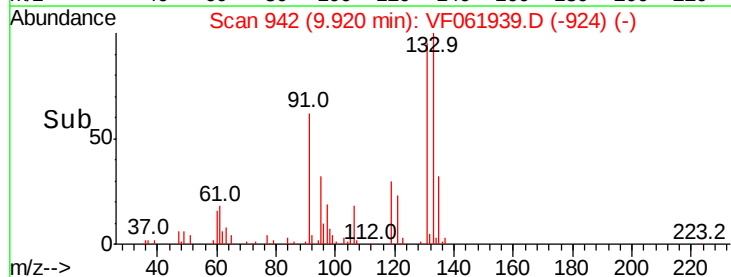
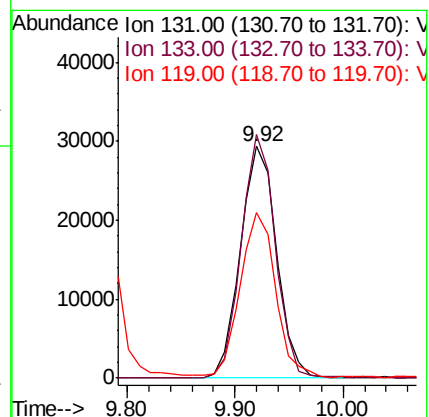
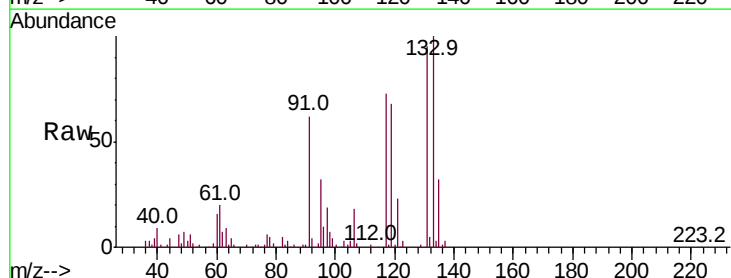
Tgt Ion:131 Resp: 68506

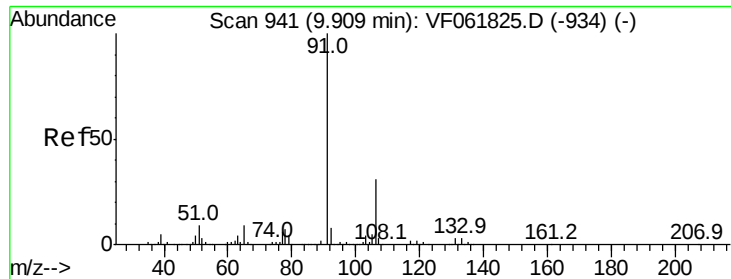
Ion Ratio Lower Upper

131 100

133 105.0 48.9 146.7

119 71.5 33.6 100.8





#67

Ethyl Benzene

Concen: 23.645 ug/l

RT: 9.89 min Scan# 939

Delta R.T. -0.02 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

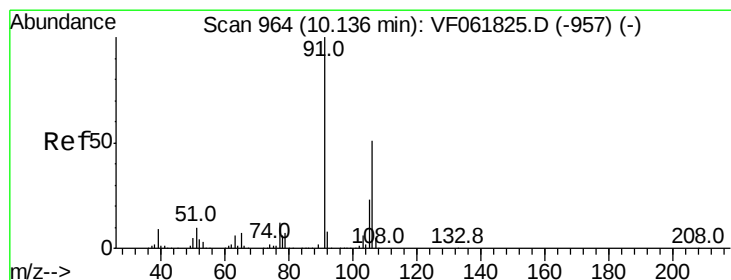
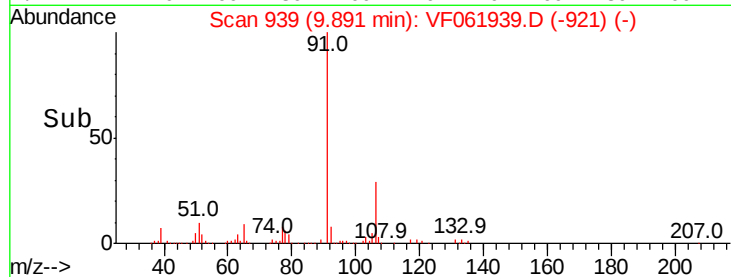
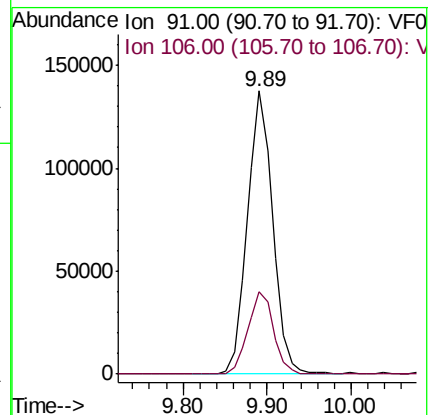
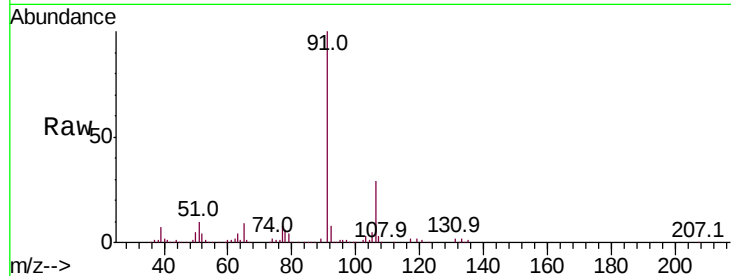
VF0314SBS01

Tot Ion: 91 Resp: 289842

Ion Ratio Lower Upper

91 100

106 29.3 25.0 37.4



#68

m/p-Xylenes

Concen: 44.742 ug/l

RT: 10.13 min Scan# 963

Delta R.T. -0.01 min

Lab File: VF061939.D

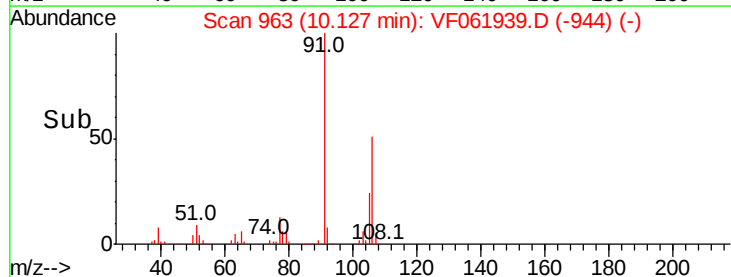
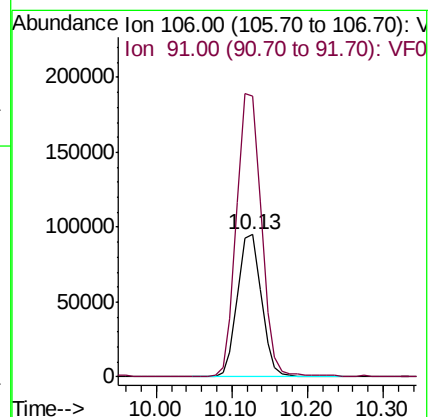
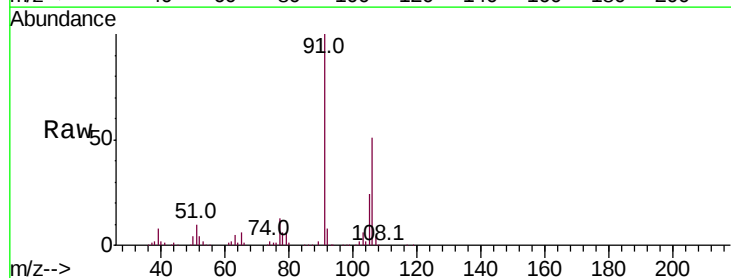
Acq: 14 Mar 2019 15:28

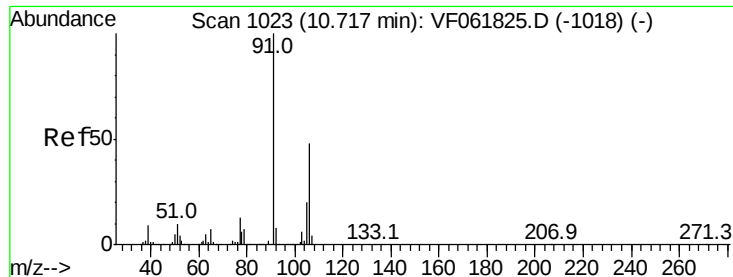
Tgt Ion:106 Resp: 210104

Ion Ratio Lower Upper

106 100

91 197.7 157.5 236.3

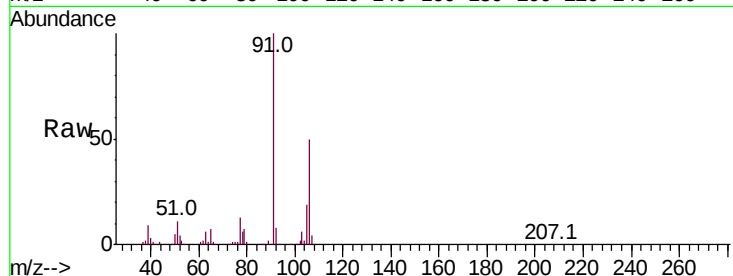




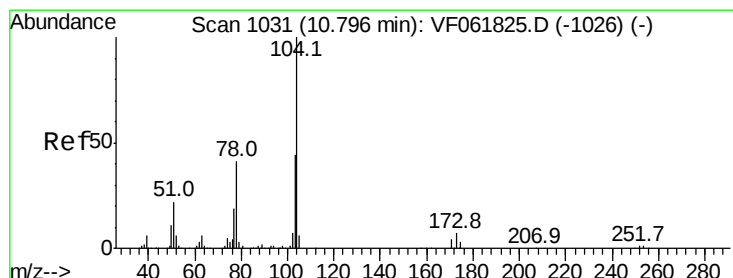
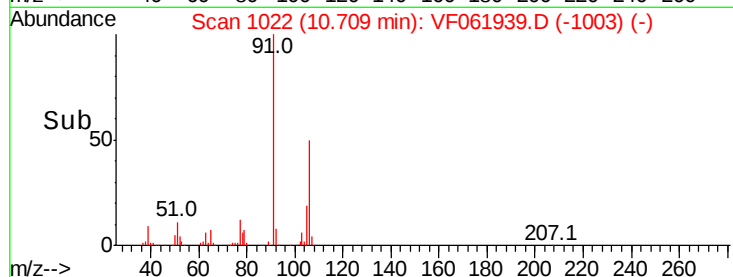
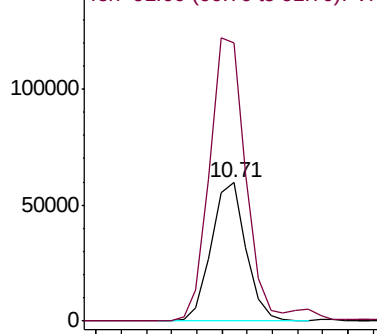
#69
o-Xylene
Concen: 22.652 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. -0.01 min
Lab File: VF061939.D
Acq: 14 Mar 2019 15:28

Instrument :
MSVOA_F
ClientSampleId :
VF0314SBS01

Tot Ion:106 Resp: 114544
Ion Ratio Lower Upper
106 100
91 200.9 103.5 310.3

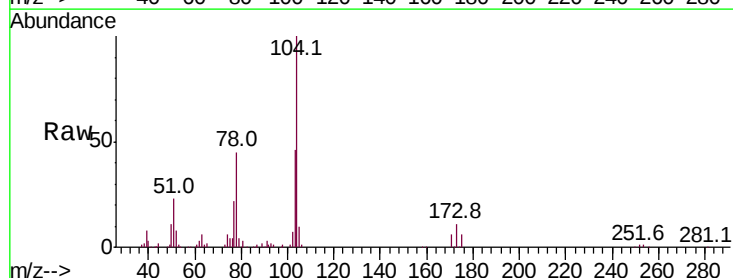


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

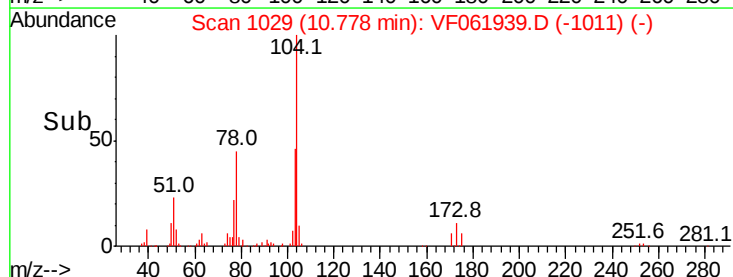
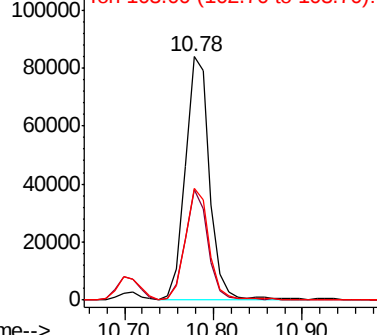


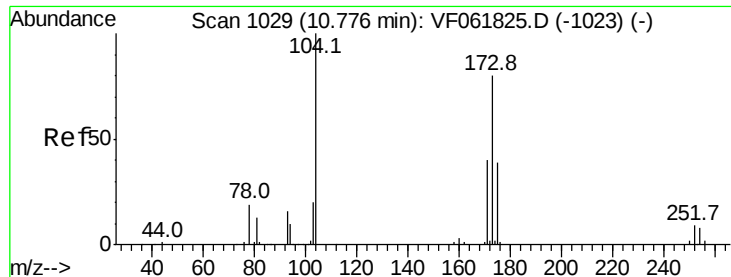
#70
Styrene
Concen: 22.291 ug/l
RT: 10.78 min Scan# 1029
Delta R.T. -0.02 min
Lab File: VF061939.D
Acq: 14 Mar 2019 15:28

Tgt Ion:104 Resp: 158631
Ion Ratio Lower Upper
104 100
78 45.2 33.3 49.9
103 45.9 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





#71

Bromoform

Concen: 20.765 ug/l

RT: 10.77 min Scan# 1028

Delta R.T. -0.01 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

VF0314SBS01

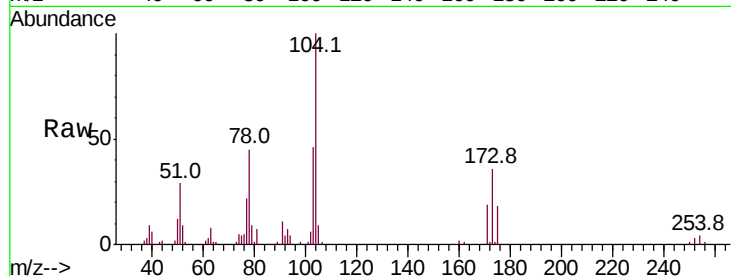
Tot Ion:173 Resp: 31447

Ion Ratio Lower Upper

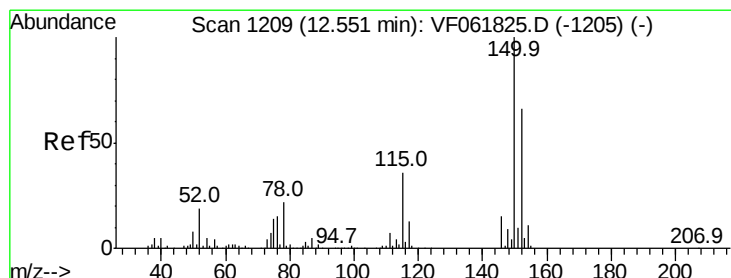
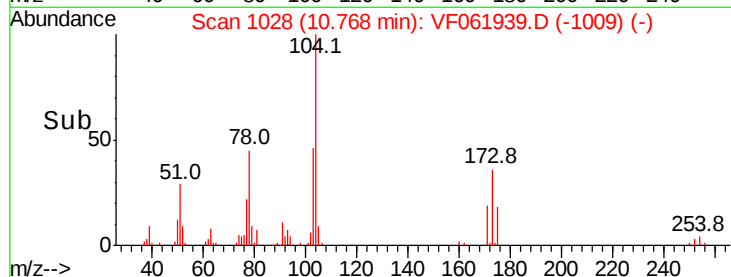
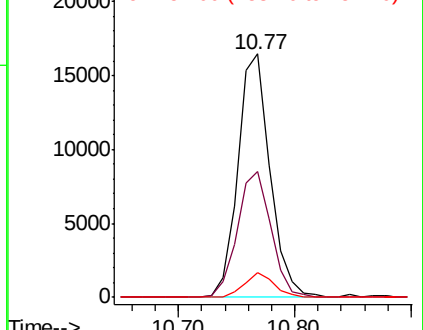
173 100

175 51.5 24.5 73.5

254 10.1 8.0 12.0



Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. -0.01 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

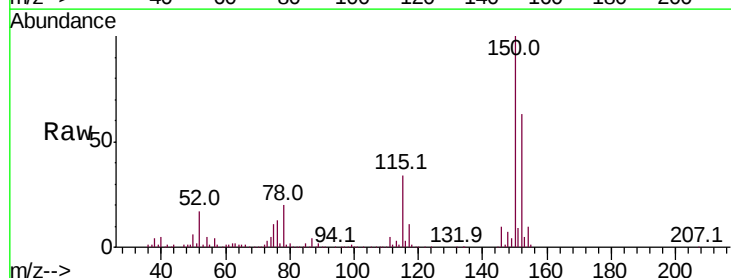
Tgt Ion:152 Resp: 207315

Ion Ratio Lower Upper

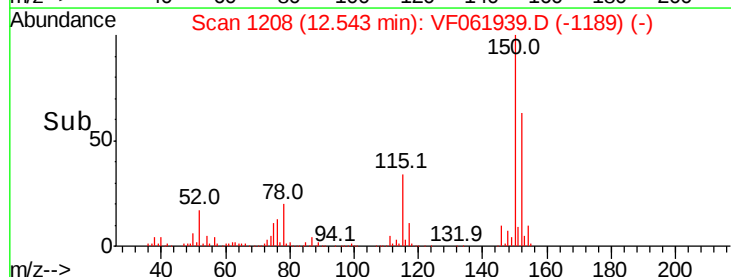
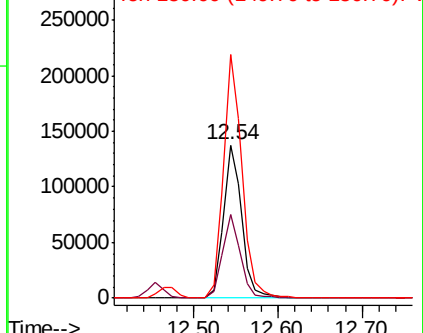
152 100

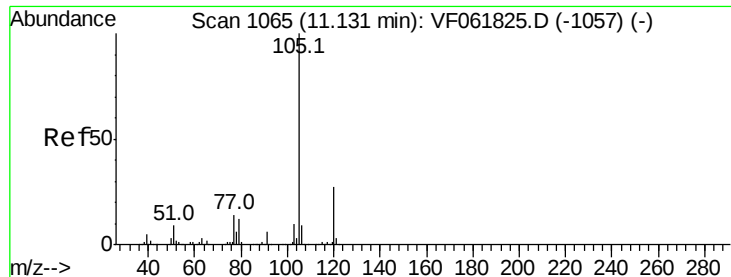
115 54.9 27.7 83.1

150 159.3 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: 23.857 ug/l

RT: 11.11 min Scan# 1063

Delta R.T. -0.02 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

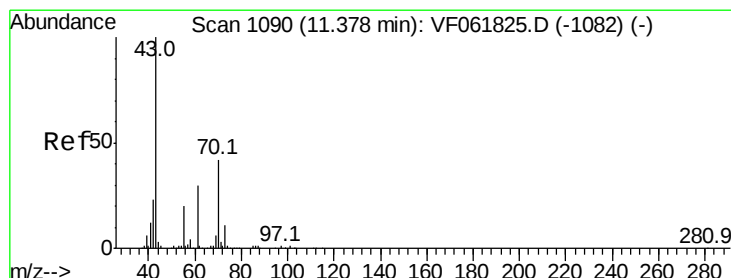
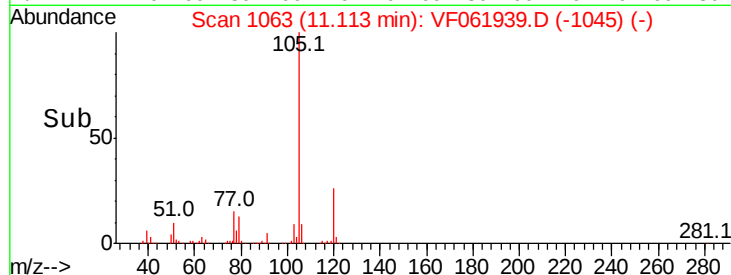
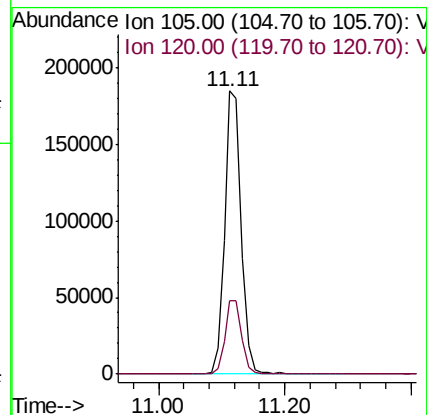
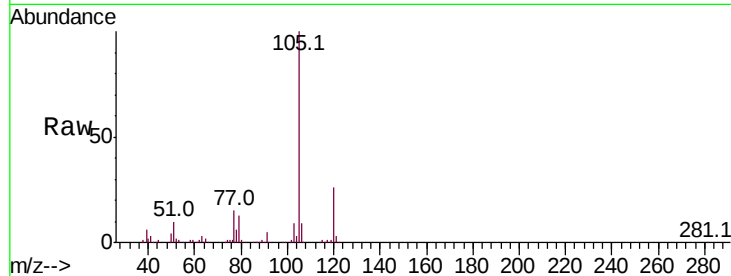
VF0314SBS01

Tot Ion:105 Resp: 340493

Ion Ratio Lower Upper

105 100

120 25.8 13.7 41.0



#74

N-ethyl acetate

Concen: 23.641 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

Tgt Ion: 43 Resp: 77680

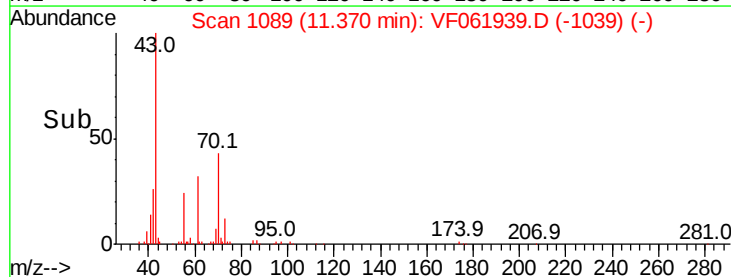
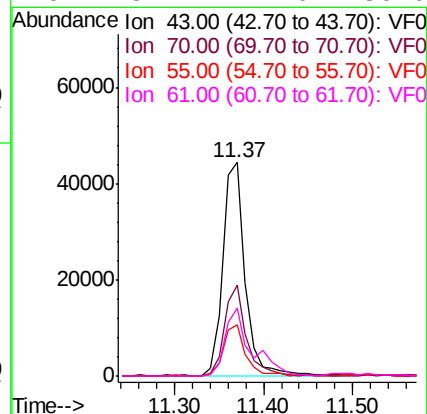
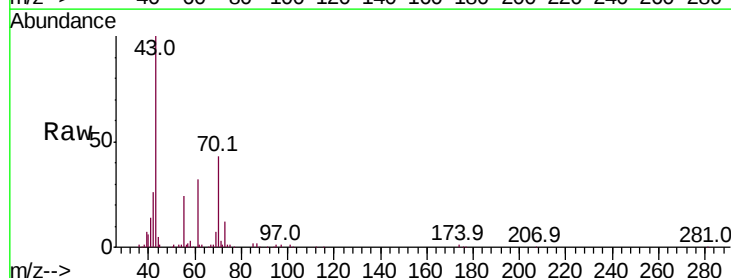
Ion Ratio Lower Upper

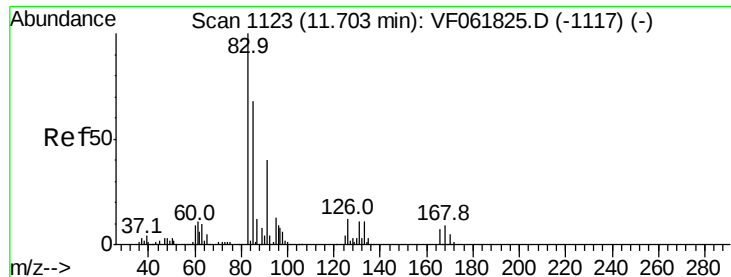
43 100

70 42.6 33.4 50.0

55 24.0 16.3 24.5

61 31.7 24.0 36.0





#75

1,1,2,2-Tetrachloroethane

Concen: 22.478 ug/l

RT: 11.69 min Scan# 1121

Delta R.T. -0.02 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

VF0314SBS01

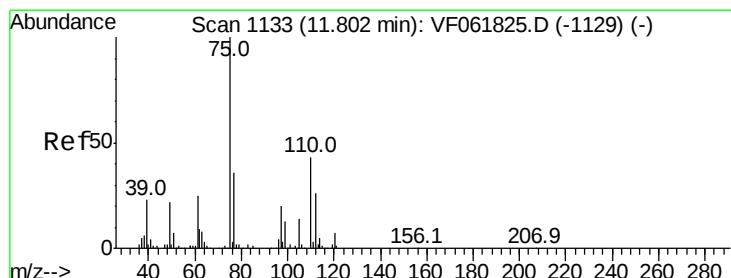
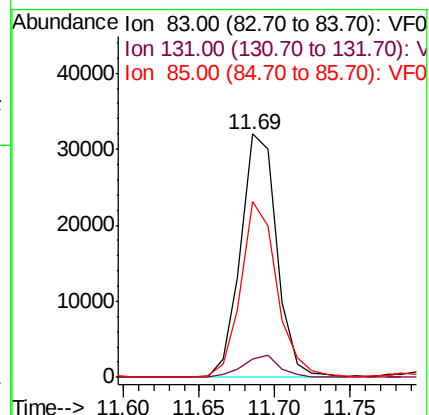
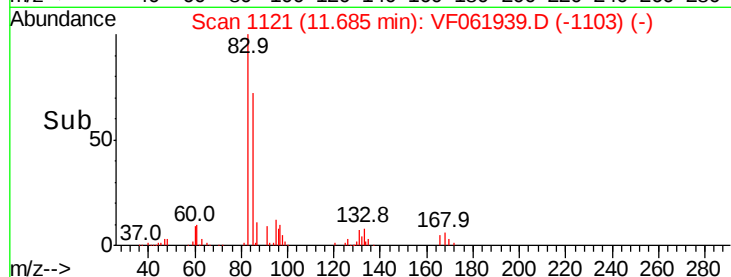
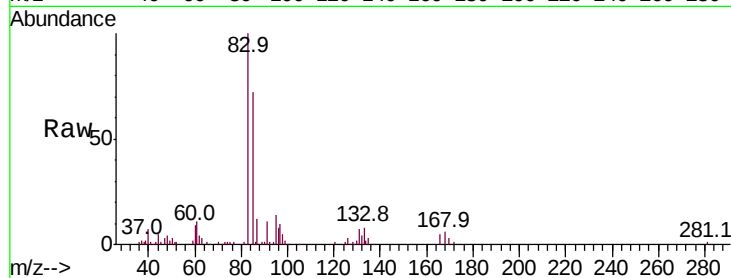
Tot Ion: 83 Resp: 53321

Ion Ratio Lower Upper

83 100

131 7.5 5.5 16.7

85 72.1 34.2 102.6



#76

1,2,3-Trichloropropane

Concen: 22.040 ug/l

RT: 11.78 min Scan# 1131

Delta R.T. -0.02 min

Lab File: VF061939.D

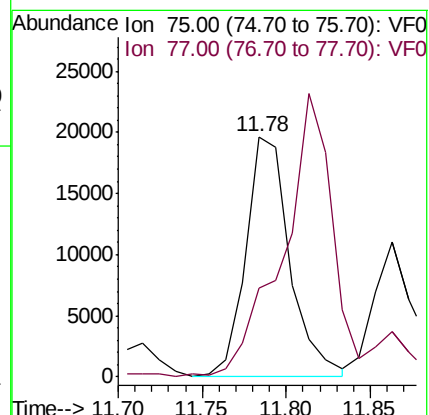
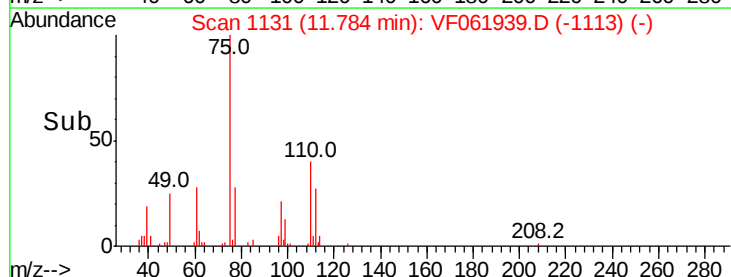
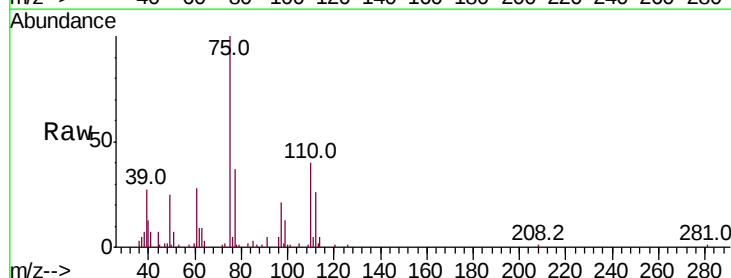
Acq: 14 Mar 2019 15:28

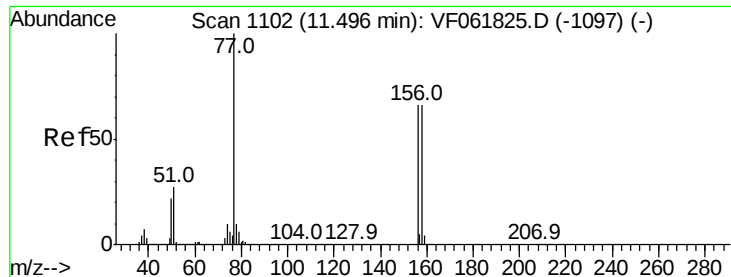
Tgt Ion: 75 Resp: 35683

Ion Ratio Lower Upper

75 100

77 37.0 18.1 54.4





#77

Bromobenzene

Concen: 22.109 ug/l

RT: 11.49 min Scan# 1101

Delta R.T. -0.01 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

VF0314SBS01

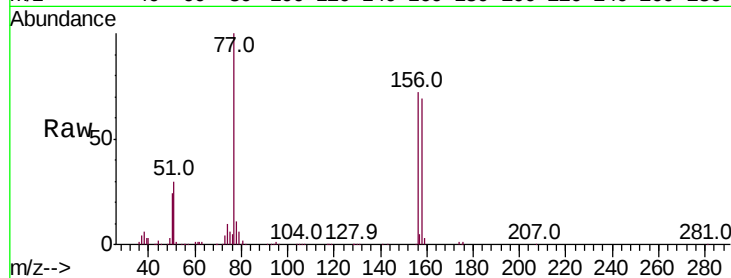
Tot Ion:156 Resp: 75943

Ion Ratio Lower Upper

156 100

77 139.0 75.7 227.1

158 96.1 50.0 150.1



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V

80000

60000

40000

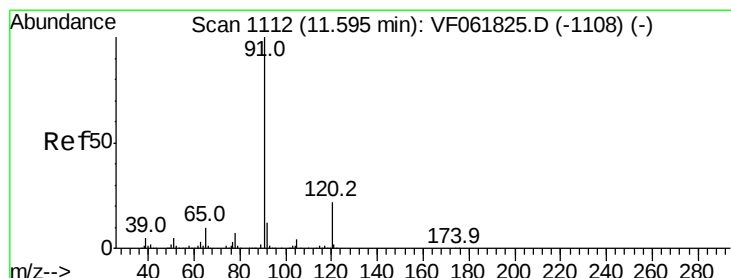
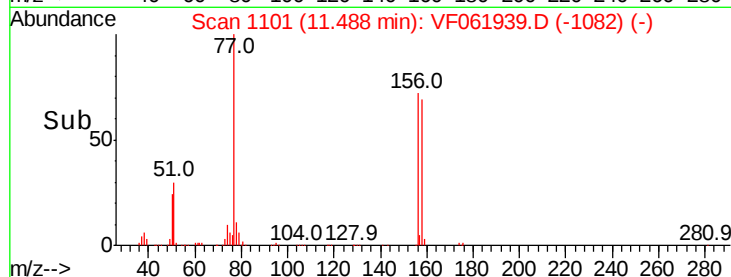
20000

0

11.49

11.40 11.50 11.60

Time-->



#78

n-propylbenzene

Concen: 23.313 ug/l

RT: 11.59 min Scan# 1111

Delta R.T. -0.01 min

Lab File: VF061939.D

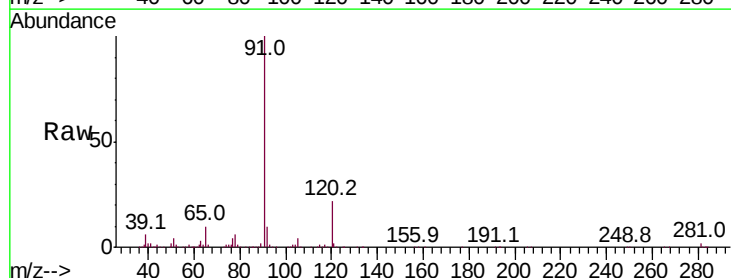
Acq: 14 Mar 2019 15:28

Tgt Ion: 91 Resp: 375751

Ion Ratio Lower Upper

91 100

120 22.3 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

250000

200000

150000

100000

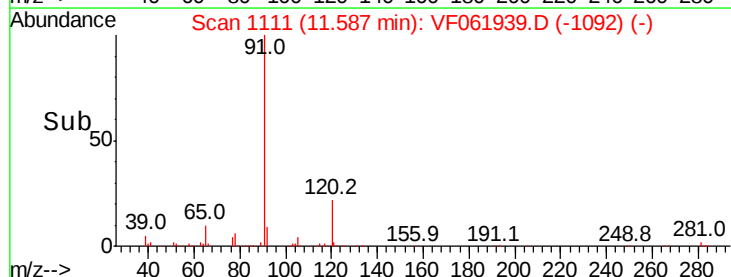
50000

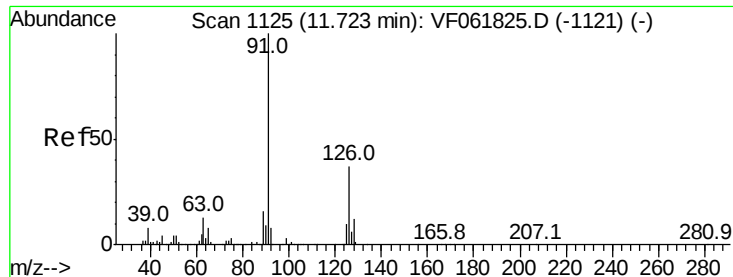
0

11.59

11.50 11.55 11.60 11.65

Time-->

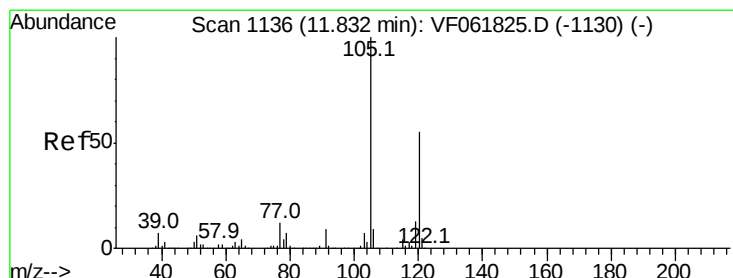
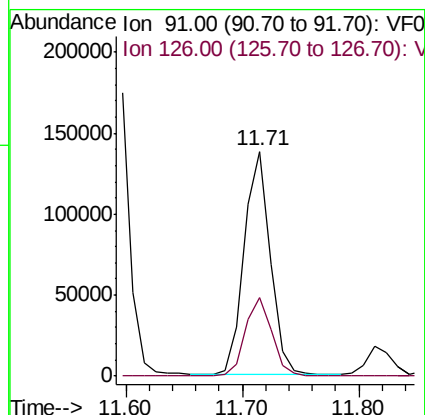
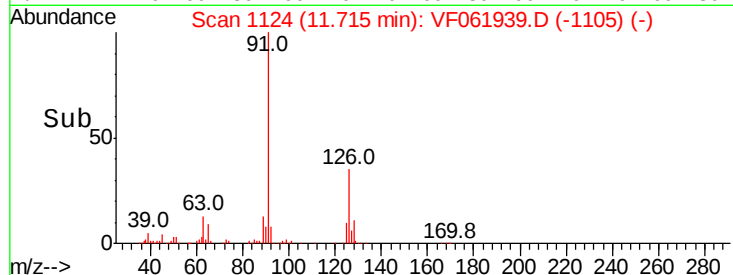
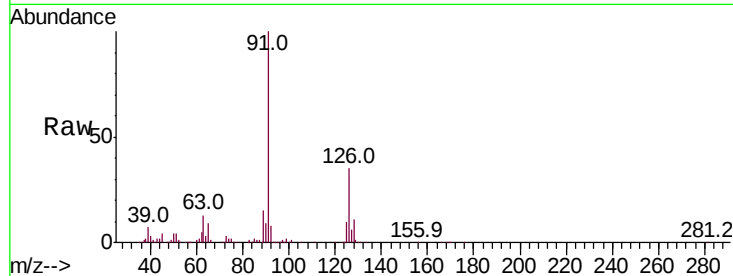




#79
 2-Chlorotoluene
 Concen: 23.374 ug/l
 RT: 11.71 min Scan# 1124
 Delta R.T. -0.01 min
 Lab File: VF061939.D
 Acq: 14 Mar 2019 15:28

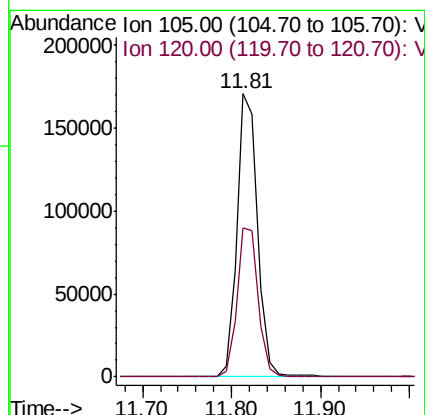
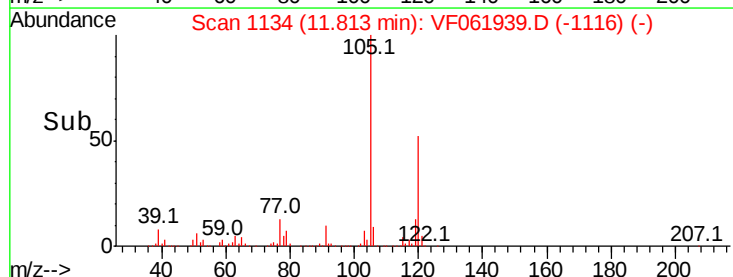
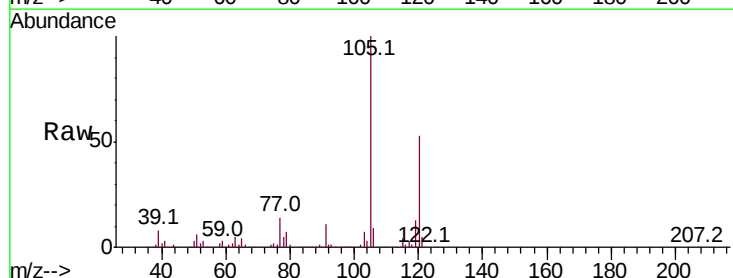
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0314SBS01

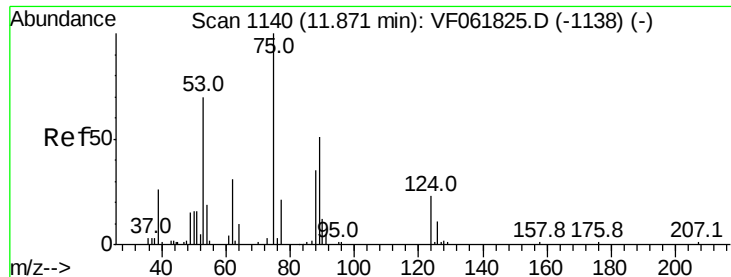
Tot Ion: 91 Resp: 215388
 Ion Ratio Lower Upper
 91 100
 126 35.2 18.1 54.4



#80
 1,3,5-Trimethylbenzene
 Concen: 24.203 ug/l
 RT: 11.81 min Scan# 1134
 Delta R.T. -0.02 min
 Lab File: VF061939.D
 Acq: 14 Mar 2019 15:28

Tgt Ion: 105 Resp: 277339
 Ion Ratio Lower Upper
 105 100
 120 52.6 27.4 82.2





#81

trans-1,4-Dichloro-2-butene

Concen: 23.571 ug/l m

RT: 11.86 min Scan# 1139

Delta R.T. -0.01 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

VF0314SBS01

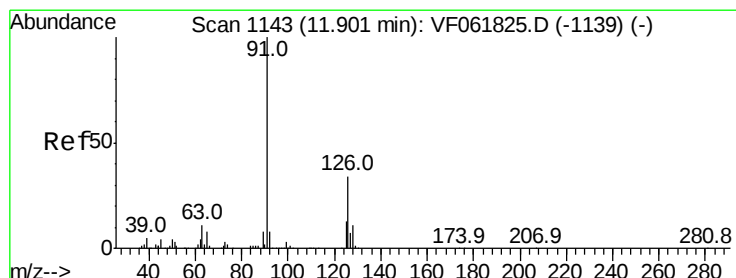
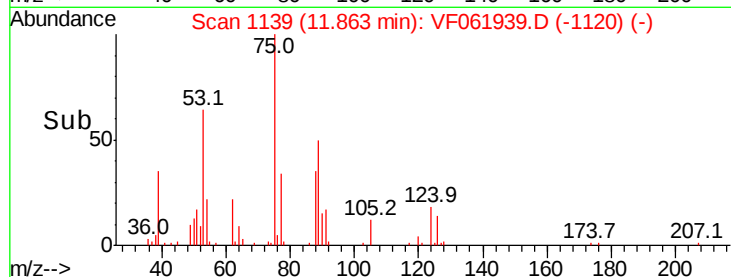
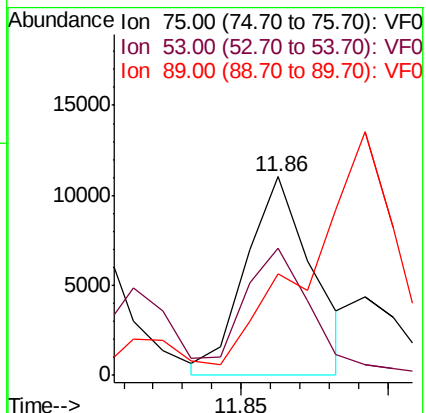
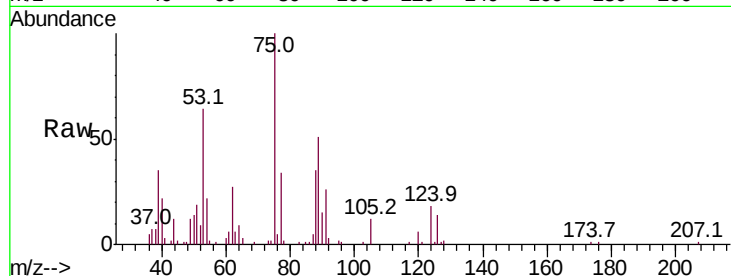
Tot Ion: 75 Resp: 17450

Ion Ratio Lower Upper

75 100

53 64.2 58.6 88.0

89 50.8 41.4 62.0



#82

4-Chlorotoluene

Concen: 23.224 ug/l

RT: 11.89 min Scan# 1142

Delta R.T. -0.01 min

Lab File: VF061939.D

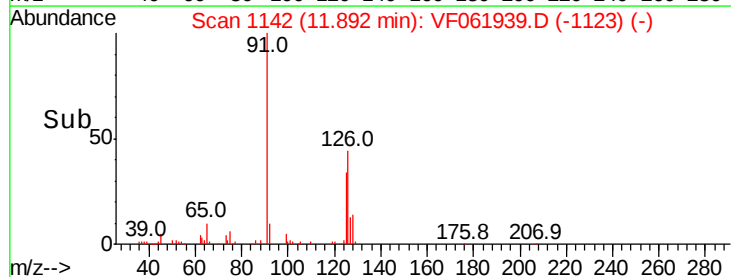
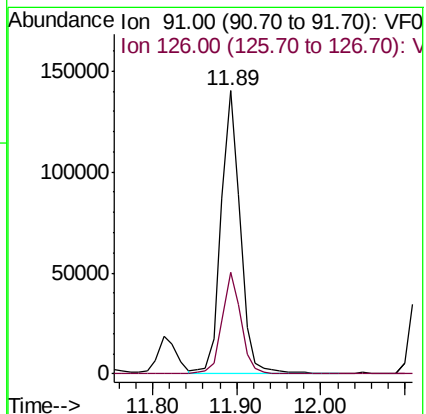
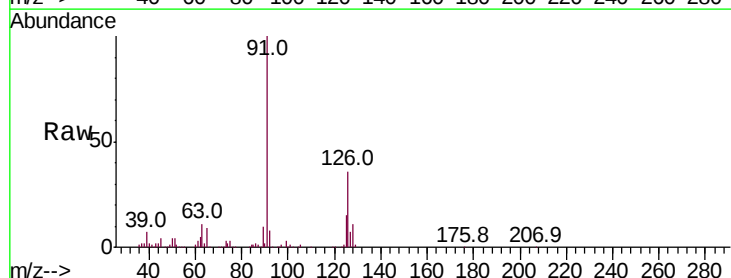
Acq: 14 Mar 2019 15:28

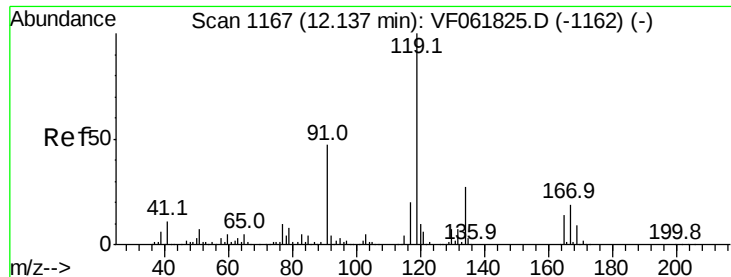
Tgt Ion: 91 Resp: 218896

Ion Ratio Lower Upper

91 100

126 35.9 17.0 50.9





#83

tert-Butylbenzene

Concen: 24.064 ug/l

RT: 12.13 min Scan# 1166

Delta R.T. -0.01 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

VF0314SBS01

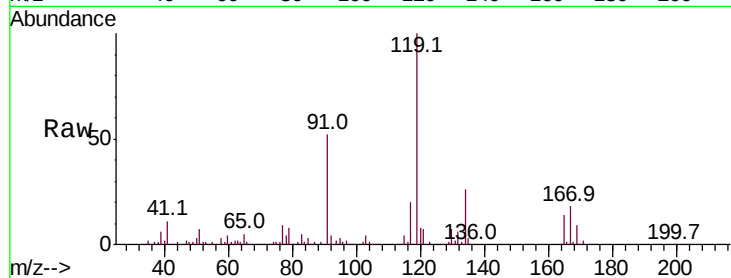
Tot Ion:119 Resp: 292807

Ion Ratio Lower Upper

119 100

91 51.7 23.5 70.5

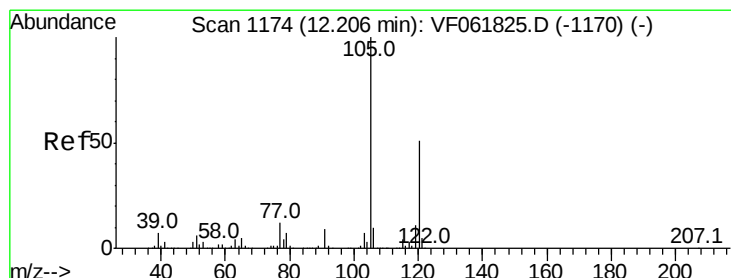
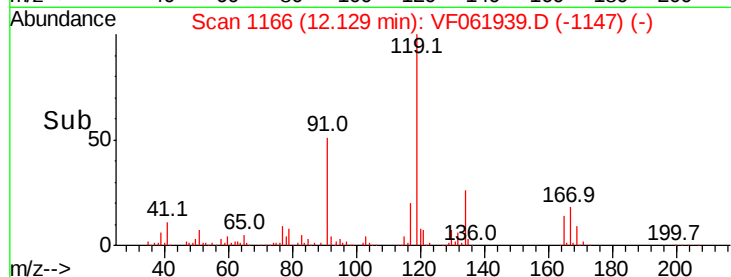
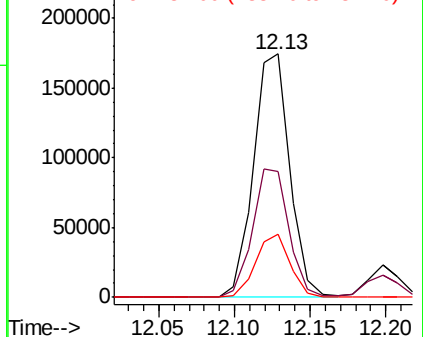
134 25.8 13.3 39.8



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 23.715 ug/l

RT: 12.20 min Scan# 1173

Delta R.T. -0.01 min

Lab File: VF061939.D

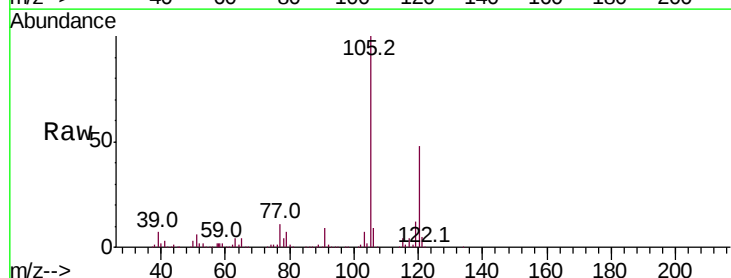
Acq: 14 Mar 2019 15:28

Tgt Ion:105 Resp: 266401

Ion Ratio Lower Upper

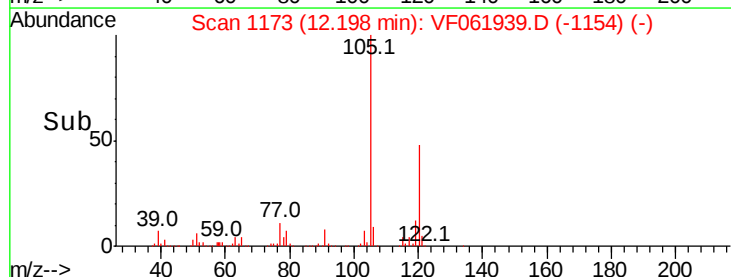
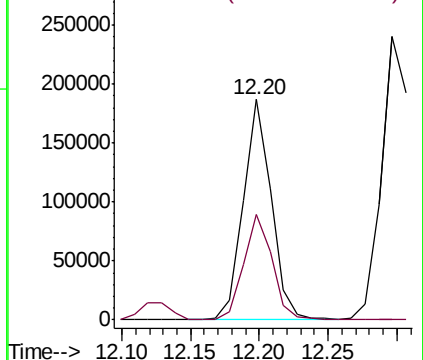
105 100

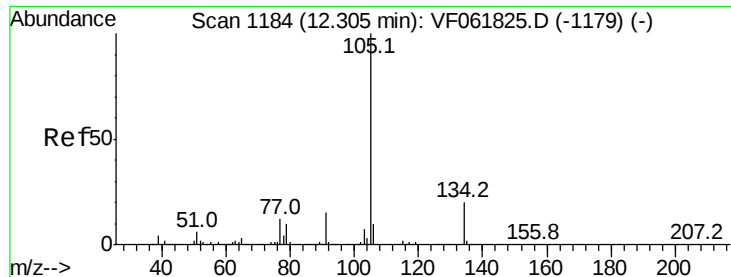
120 48.1 25.8 77.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 23.051 ug/l

RT: 12.30 min Scan# 1183

Delta R.T. -0.01 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

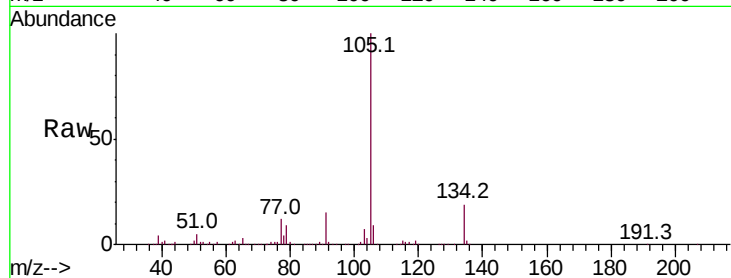
VF0314SBS01

Tot Ion:105 Resp: 364990

Ion Ratio Lower Upper

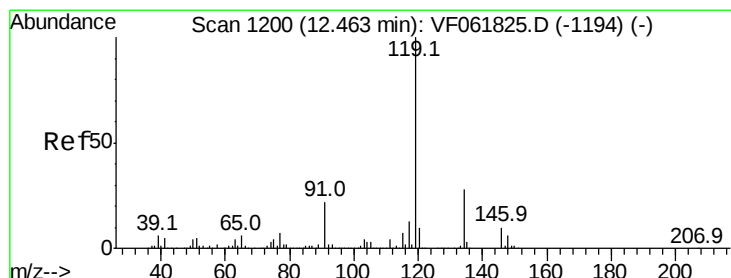
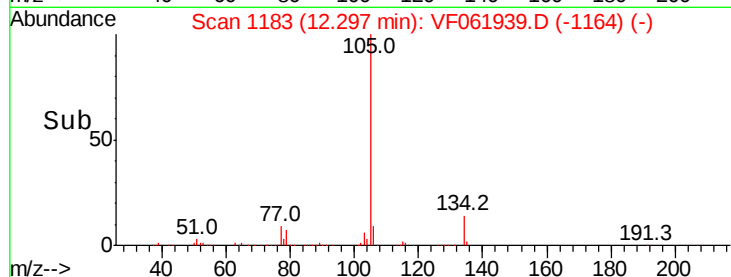
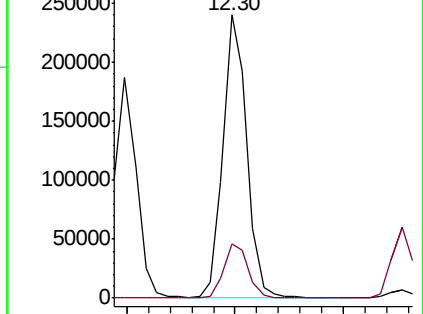
105 100

134 19.2 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: 22.955 ug/l

RT: 12.45 min Scan# 1199

Delta R.T. -0.01 min

Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

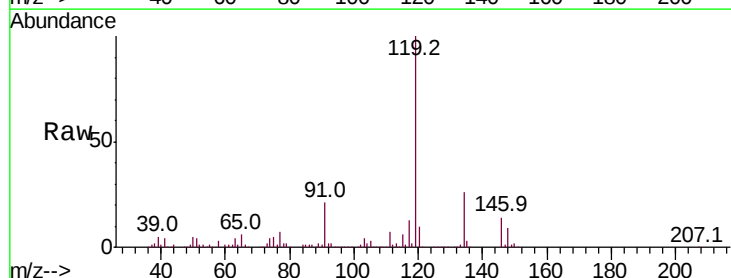
Tgt Ion:119 Resp: 308957

Ion Ratio Lower Upper

119 100

134 26.2 14.0 42.0

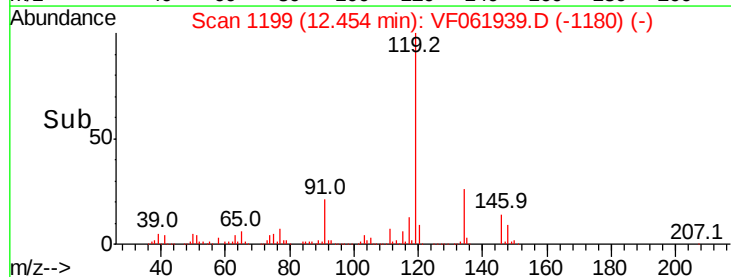
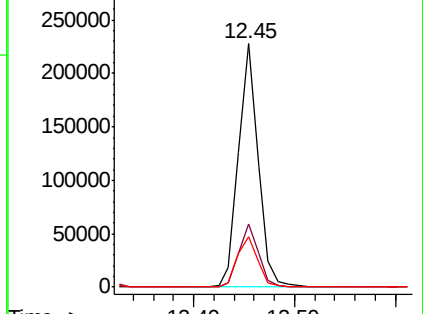
91 20.7 11.1 33.3

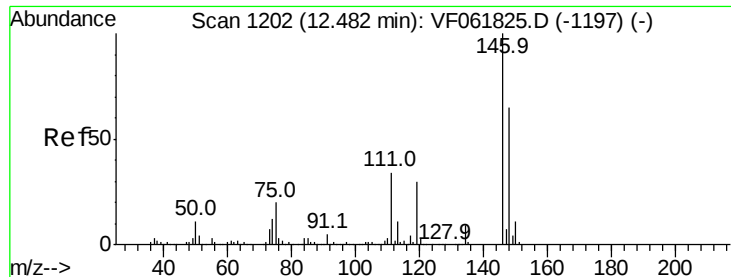


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 22.932 ug/l

RT: 12.46 min Scan# 1200

Delta R.T. -0.02 min

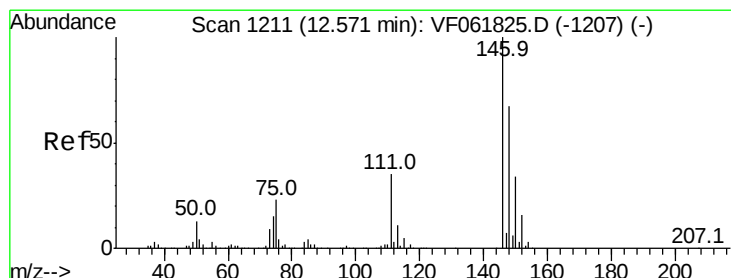
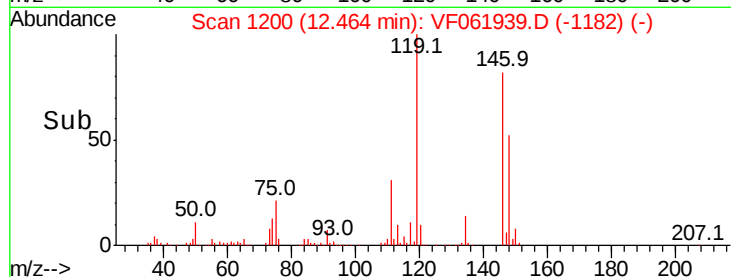
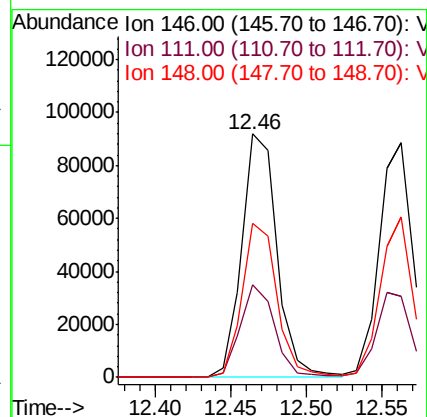
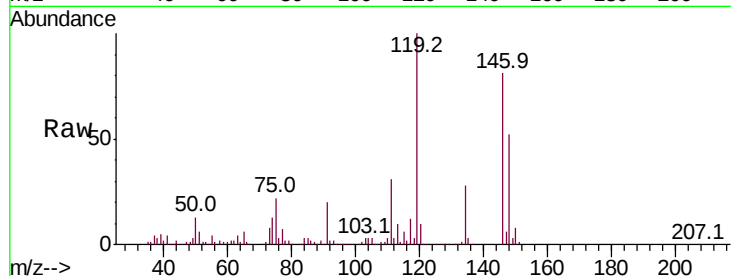
Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

Instrument :
MSVOA_F
ClientSampleId :
VF0314SBS01

Tot Ion:146 Resp: 149567

Ion	Ratio	Lower	Upper
146	100		
111	38.2	17.0	51.0
148	63.3	32.5	97.5



#88

1,4-Dichlorobenzene

Concen: 22.934 ug/l

RT: 12.56 min Scan# 1210

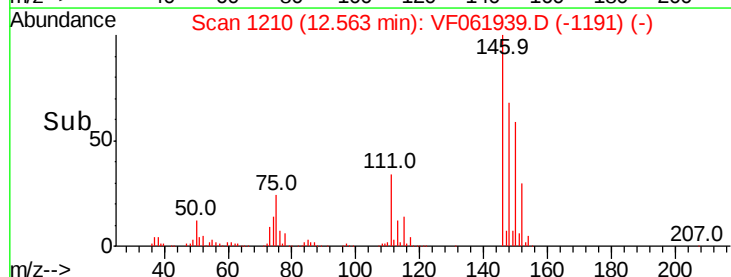
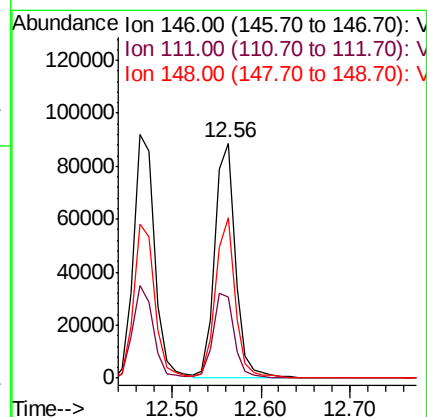
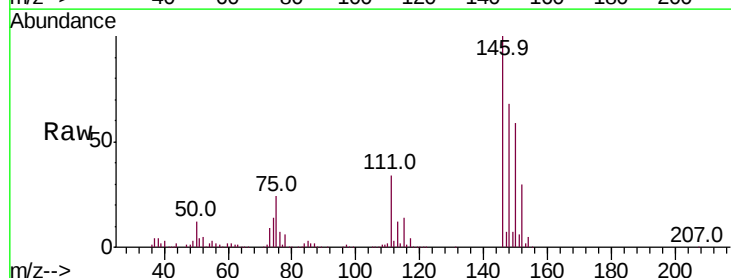
Delta R.T. -0.01 min

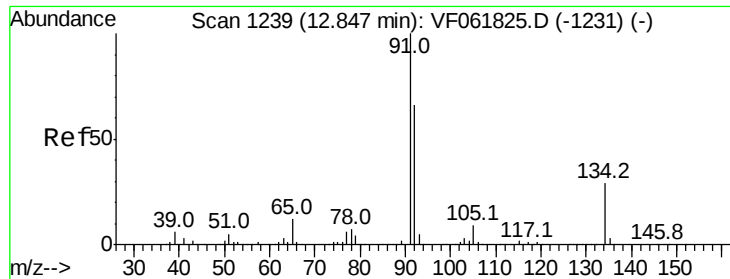
Lab File: VF061939.D

Acq: 14 Mar 2019 15:28

Tgt Ion:146 Resp: 144291

Ion	Ratio	Lower	Upper
146	100		
111	34.2	17.6	52.9
148	68.2	33.5	100.4

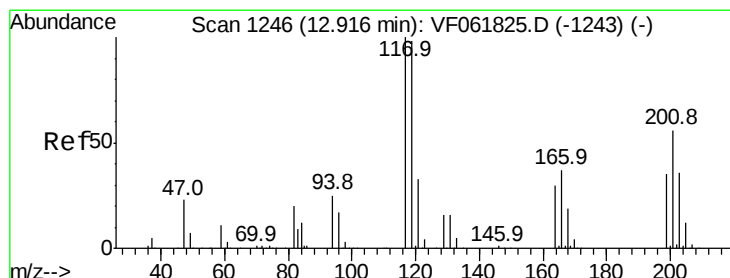
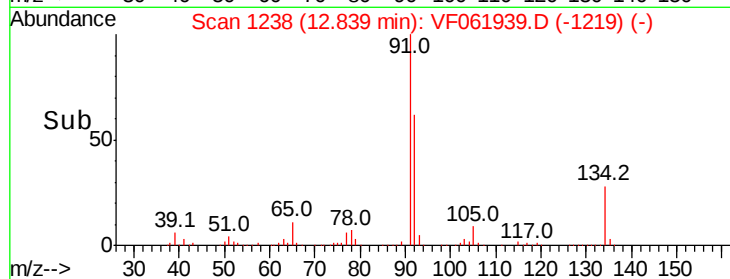
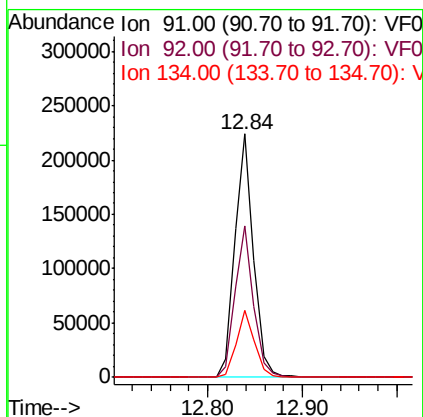
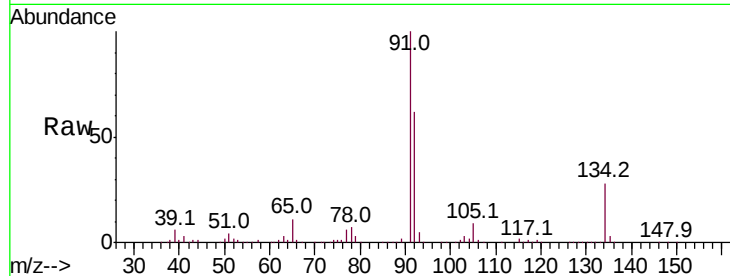




#89
n-Butylbenzene
Concen: 23.549 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. -0.01 min
Lab File: VF061939.D
Acq: 14 Mar 2019 15:28

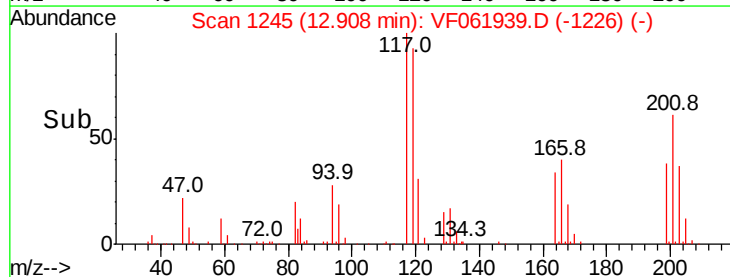
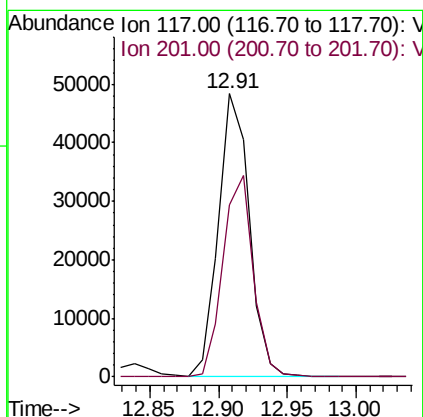
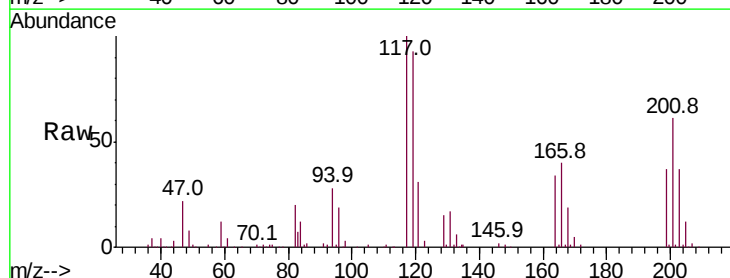
Instrument :
MSVOA_F
ClientSampleId :
VF0314SBS01

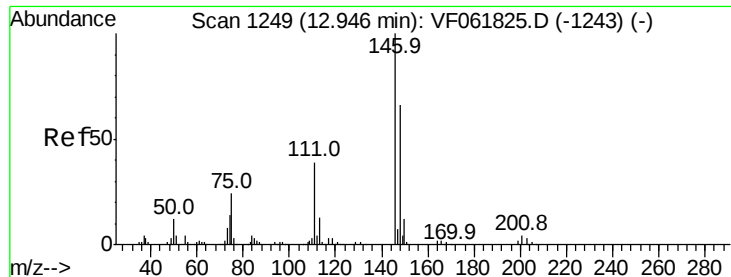
Tot Ion: 91 Resp: 302913
Ion Ratio Lower Upper
91 100
92 62.0 32.9 98.6
134 27.5 14.5 43.6



#90
Hexachloroethane
Concen: 23.278 ug/l
RT: 12.91 min Scan# 1245
Delta R.T. -0.01 min
Lab File: VF061939.D
Acq: 14 Mar 2019 15:28

Tgt Ion: 117 Resp: 75415
Ion Ratio Lower Upper
117 100
201 60.7 27.8 83.4

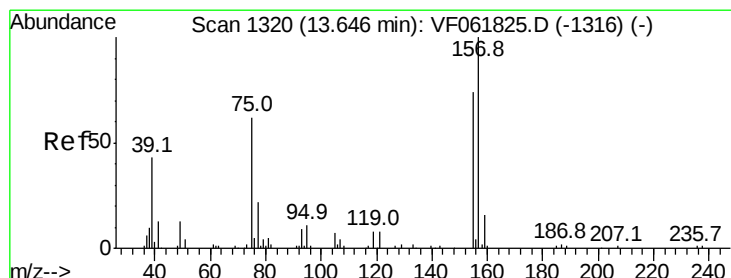
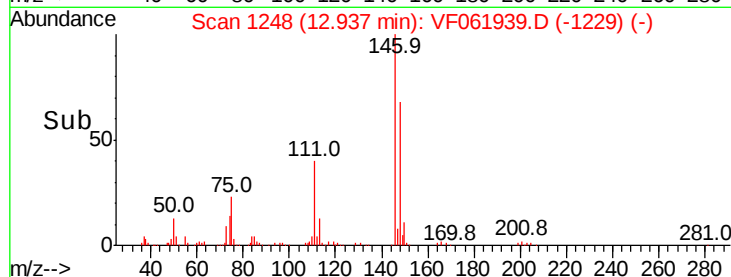
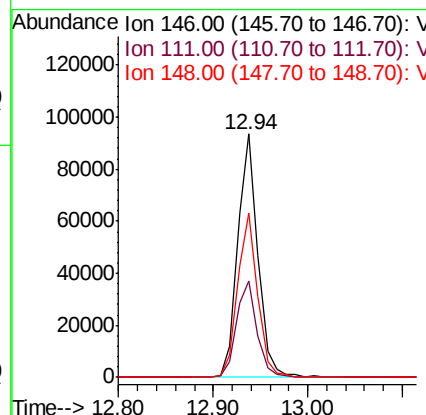
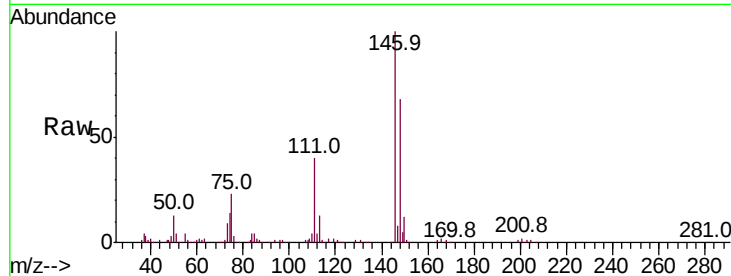




#91
 1,2-Dichlorobenzene
 Concen: 22.320 ug/l
 RT: 12.94 min Scan# 1248
 Delta R.T. -0.01 min
 Lab File: VF061939.D
 Acq: 14 Mar 2019 15:28

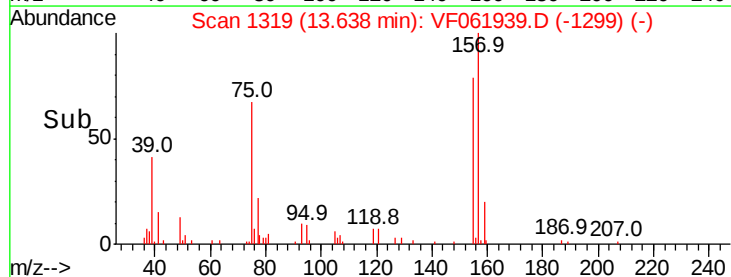
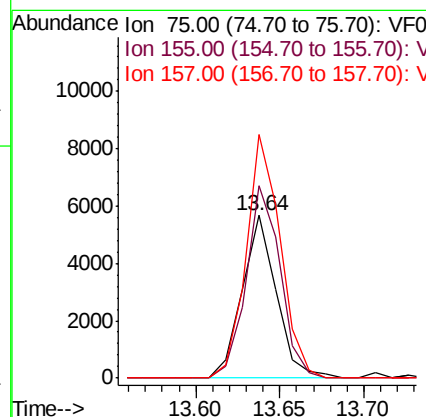
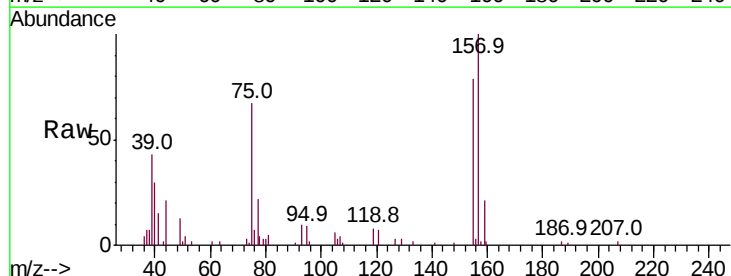
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0314SBS01

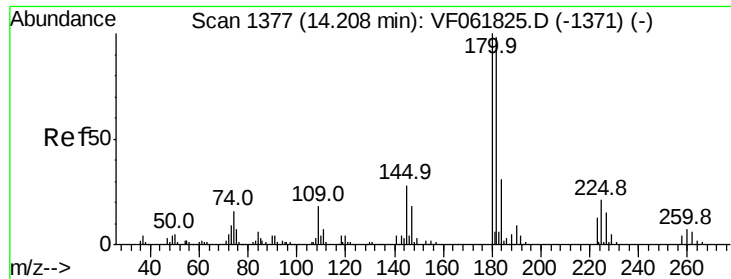
Tot Ion:146 Resp: 137926
 Ion Ratio Lower Upper
 146 100
 111 39.7 19.4 58.4
 148 67.7 33.0 98.9



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.734 ug/l
 RT: 13.64 min Scan# 1319
 Delta R.T. -0.01 min
 Lab File: VF061939.D
 Acq: 14 Mar 2019 15:28

Tgt Ion: 75 Resp: 8004
 Ion Ratio Lower Upper
 75 100
 155 118.0 59.8 179.4
 157 149.6 81.2 243.4

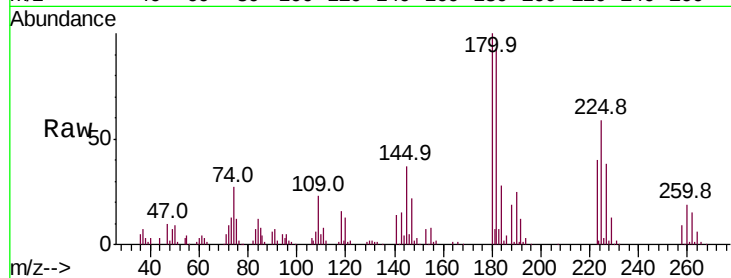




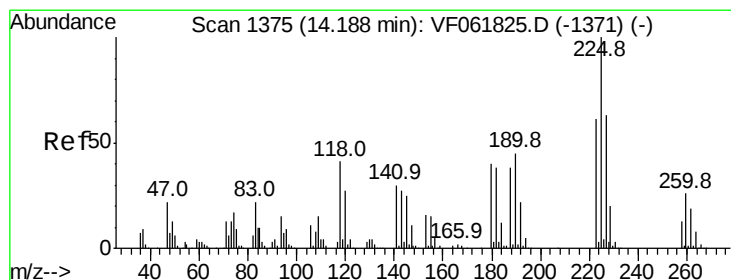
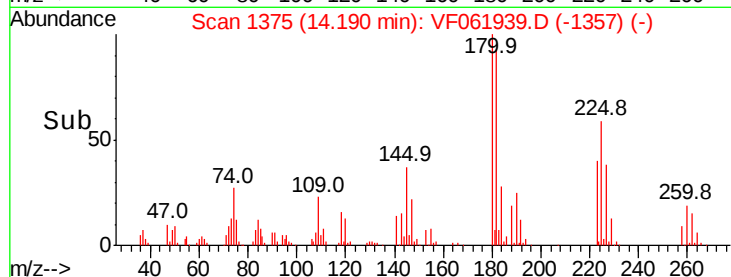
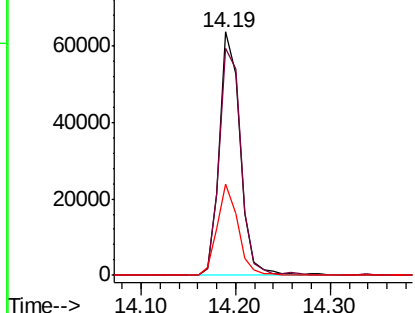
#93
 1,2,4-Trichlorobenzene
 Concen: 22.348 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.02 min
 Lab File: VF061939.D
 Acq: 14 Mar 2019 15:28

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0314SBS01

Tot Ion:180 Resp: 96818
 Ion Ratio Lower Upper
 180 100
 182 93.1 49.0 147.2
 145 37.4 14.1 42.4

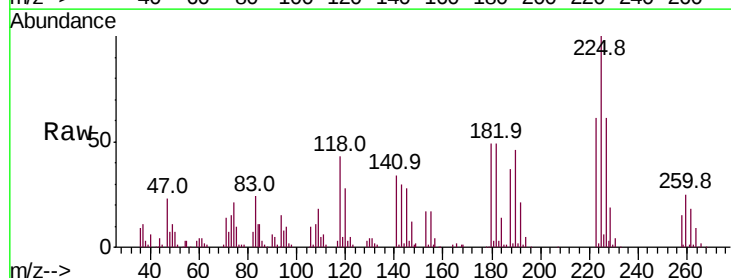


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

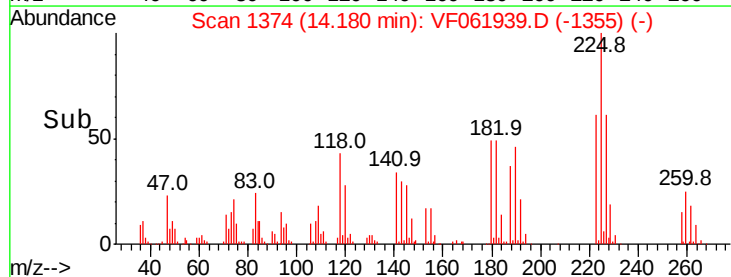
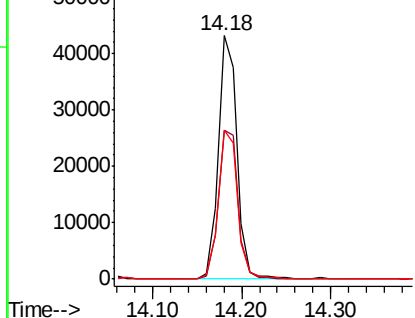


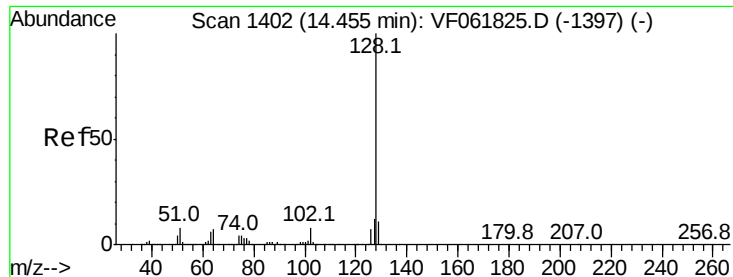
#94
 Hexachlorobutadiene
 Concen: 21.224 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.01 min
 Lab File: VF061939.D
 Acq: 14 Mar 2019 15:28

Tgt Ion:225 Resp: 63653
 Ion Ratio Lower Upper
 225 100
 223 61.2 30.3 90.9
 227 61.1 31.3 93.8



Abundance Ion 225.00 (224.70 to 225.70): V
 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V

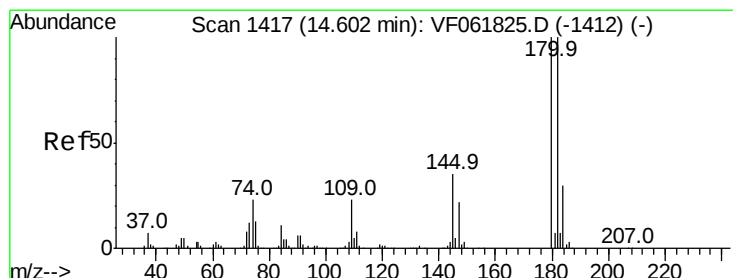
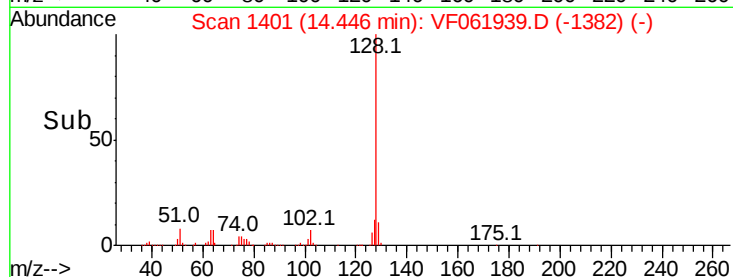
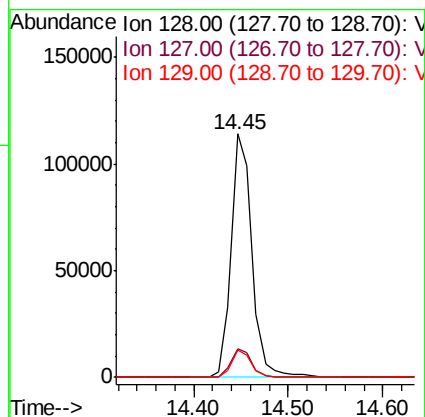
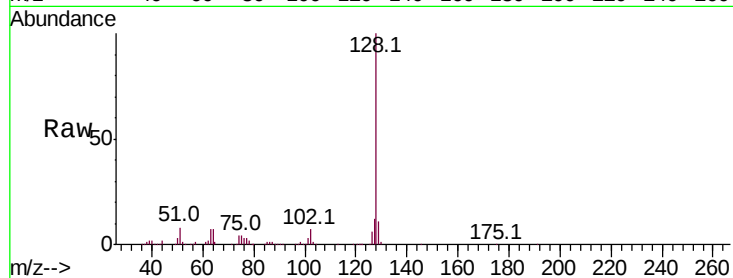




#95
Naphthalene
Concen: 22.583 ug/l
RT: 14.45 min Scan# 1401
Delta R.T. -0.01 min
Lab File: VF061939.D
Acq: 14 Mar 2019 15:28

Instrument :
MSVOA_F
ClientSampleId :
VF0314SBS01

Tot Ion:128 Resp: 174249
Ion Ratio Lower Upper
128 100
127 12.0 9.3 13.9
129 11.1 8.8 13.2



#96
1,2,3-Trichlorobenzene
Concen: 22.196 ug/l
RT: 14.59 min Scan# 1416
Delta R.T. -0.01 min
Lab File: VF061939.D
Acq: 14 Mar 2019 15:28

Tgt Ion:180 Resp: 88785
Ion Ratio Lower Upper
180 100
182 92.8 50.2 150.7
145 33.8 17.5 52.5

