

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF021219\
 Data File : VF061606.D
 Acq On : 12 Feb 2019 13:56
 Operator : VA/AP
 Sample : VF0212SBSD01
 Misc : 5.00µg/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0212SBSD01

Quant Time: Feb 13 03:02:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	172637	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.58	114	298335	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.76	117	272924	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.54	152	142773	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	103322	48.48	ug/l	0.00
Spiked Amount			Recovery	=	96.96%	
35) Dibromofluoromethane	4.10	113	110140	46.79	ug/l	0.00
Spiked Amount			Recovery	=	93.58%	
50) Toluene-d8	7.54	98	296572	45.98	ug/l	0.00
Spiked Amount			Recovery	=	91.96%	
62) 4-Bromofluorobenzene	11.40	95	144213	47.85	ug/l	0.00
Spiked Amount			Recovery	=	95.70%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	58718	17.310	ug/l	86
3) Chloromethane	1.09	50	42569	17.115	ug/l	96
4) Vinyl Chloride	1.13	62	38167	17.251	ug/l	97
5) Bromomethane	1.33	94	29201	20.240	ug/l	93
6) Chloroethane	1.39	64	19936	20.335	ug/l	95
7) Trichlorofluoromethane	1.49	101	80666	18.754	ug/l	99
8) Diethyl Ether	1.62	74	9887	17.940	ug/l	80
9) 1,1,2-Trichlorotrifluoroet	1.82	101	44204	21.389	ug/l	93
10) Methyl Iodide	1.89	142	60439m	18.864	ug/l	
11) Tert butyl alcohol	2.57	59	8706	96.498	ug/l #	87
12) 1,1-Dichloroethene	1.78	96	30633	19.951	ug/l	97
13) Acrolein	2.00	56	4269	63.001	ug/l	92
14) Allyl chloride	2.09	41	38637	18.955	ug/l	94
15) Acrylonitrile	2.94	53	22192	96.029	ug/l	96
16) Acetone	2.23	43	46294	108.268	ug/l #	89
17) Carbon Disulfide	1.82	76	82972	17.331	ug/l	99
18) Methyl Acetate	2.33	43	16176	19.076	ug/l	99
19) Methyl tert-butyl Ether	2.42	73	65440	19.012	ug/l	98
20) Methylene Chloride	2.24	84	34263m	22.644	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	30869	18.273	ug/l	83
22) Diisopropyl ether	2.79	45	106980	19.579	ug/l	96
23) Vinyl Acetate	3.17	43	250552	106.113	ug/l	97
24) 1,1-Dichloroethane	2.86	63	66869	19.499	ug/l	98
25) 2-Butanone	4.33	43	68953	96.972	ug/l #	90
26) 2,2-Dichloropropane	3.59	77	38626	18.332	ug/l	94
27) cis-1,2-Dichloroethene	3.46	96	47239	18.943	ug/l	92
28) Bromochloromethane	3.71	49	29643	19.230	ug/l #	100
29) Tetrahydrofuran	4.06	42	26176	85.493	ug/l	96
30) Chloroform	3.84	83	92647	20.018	ug/l	99
31) Cyclohexane	3.68	56	60370	17.623	ug/l	98
32) 1,1,1-Trichloroethane	4.08	97	66375	19.559	ug/l	95
36) 1,1-Dichloropropene	4.27	75	64801	18.734	ug/l	96
37) Ethyl Acetate	4.09	43	27871	20.157	ug/l #	90
38) Carbon Tetrachloride	3.97	117	53761	17.778	ug/l	92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.43	83	64990	17.337	ug/l	96
40) Benzene	4.61	78	144507	18.775	ug/l	98
41) Methacrylonitrile	4.73	41	14205	19.307	ug/l #	90
42) 1,2-Dichloroethane	4.93	62	53868	19.640	ug/l	93
43) Isopropyl Acetate	6.95	43	32739	18.866	ug/l #	100
44) Trichloroethene	5.49	130	46960	19.889	ug/l	95
45) 1,2-Dichloropropane	6.22	63	39978	19.790	ug/l	95
46) Dibromomethane	6.07	93	24429	18.187	ug/l	95
47) Bromodichloromethane	6.37	83	66870	20.121	ug/l	98
48) Methyl methacrylate	6.70	41	19060	16.356	ug/l	91
49) 1,4-Dioxane	6.68	88	2970	317.765	ug/l #	44
51) 4-Methyl-2-Pentanone	8.24	43	124167	97.327	ug/l	95
52) Toluene	7.61	92	94635	18.670	ug/l	95
53) t-1,3-Dichloropropene	8.26	75	57794	21.900	ug/l	100
54) cis-1,3-Dichloropropene	7.29	75	69947	21.205	ug/l	99
55) 1,1,2-Trichloroethane	8.48	97	26861	18.662	ug/l	96
56) Ethyl methacrylate	8.61	69	32000	19.109	ug/l	98
57) 1,3-Dichloropropane	8.84	76	49340	18.288	ug/l	91
58) 2-Chloroethyl Vinyl ether	7.29	63	27598	167.380	ug/l	93
59) 2-Hexanone	9.48	43	95873	107.768	ug/l	100
60) Dibromochloromethane	8.70	129	40994	19.481	ug/l	98
61) 1,2-Dibromoethane	8.97	107	32101	19.481	ug/l	97
64) Tetrachloroethene	8.14	164	41479	20.210	ug/l	95
65) Chlorobenzene	9.78	112	111139	20.025	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.91	131	45879	20.751	ug/l	94
67) Ethyl Benzene	9.89	91	200772	19.799	ug/l	99
68) m/p-Xylenes	10.12	106	142612	39.102	ug/l	95
69) o-Xylene	10.70	106	79247	20.048	ug/l	99
70) Styrene	10.78	104	112181	20.733	ug/l	95
71) Bromoform	10.76	173	20588	20.725	ug/l #	96
73) Isopropylbenzene	11.11	105	229555	19.769	ug/l	98
74) N-amyl acetate	11.36	43	56593	20.611	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.69	83	39732	19.207	ug/l	98
76) 1,2,3-Trichloropropane	11.78	75	29570	19.893	ug/l	98
77) Bromobenzene	11.49	156	48544	19.795	ug/l	94
78) n-propylbenzene	11.59	91	288752	19.051	ug/l	99
79) 2-Chlorotoluene	11.71	91	159098	19.747	ug/l	99
80) 1,3,5-Trimethylbenzene	11.81	105	195621	20.875	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.86	75	13976m	21.629	ug/l	
82) 4-Chlorotoluene	11.89	91	167481	20.600	ug/l	99
83) tert-Butylbenzene	12.12	119	205414	21.178	ug/l	98
84) 1,2,4-Trimethylbenzene	12.20	105	195094	20.211	ug/l	94
85) sec-Butylbenzene	12.30	105	280045	21.261	ug/l	98
86) p-Isopropyltoluene	12.45	119	226047	20.906	ug/l	98
87) 1,3-Dichlorobenzene	12.46	146	96903	18.782	ug/l	99
88) 1,4-Dichlorobenzene	12.55	146	95189	20.541	ug/l	95
89) n-Butylbenzene	12.84	91	243054	21.796	ug/l	97
90) Hexachloroethane	12.91	117	54503	21.384	ug/l	99
91) 1,2-Dichlorobenzene	12.93	146	93490	20.379	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	13.64	75	6812	18.566	ug/l	93

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Response via : Initial Calibration

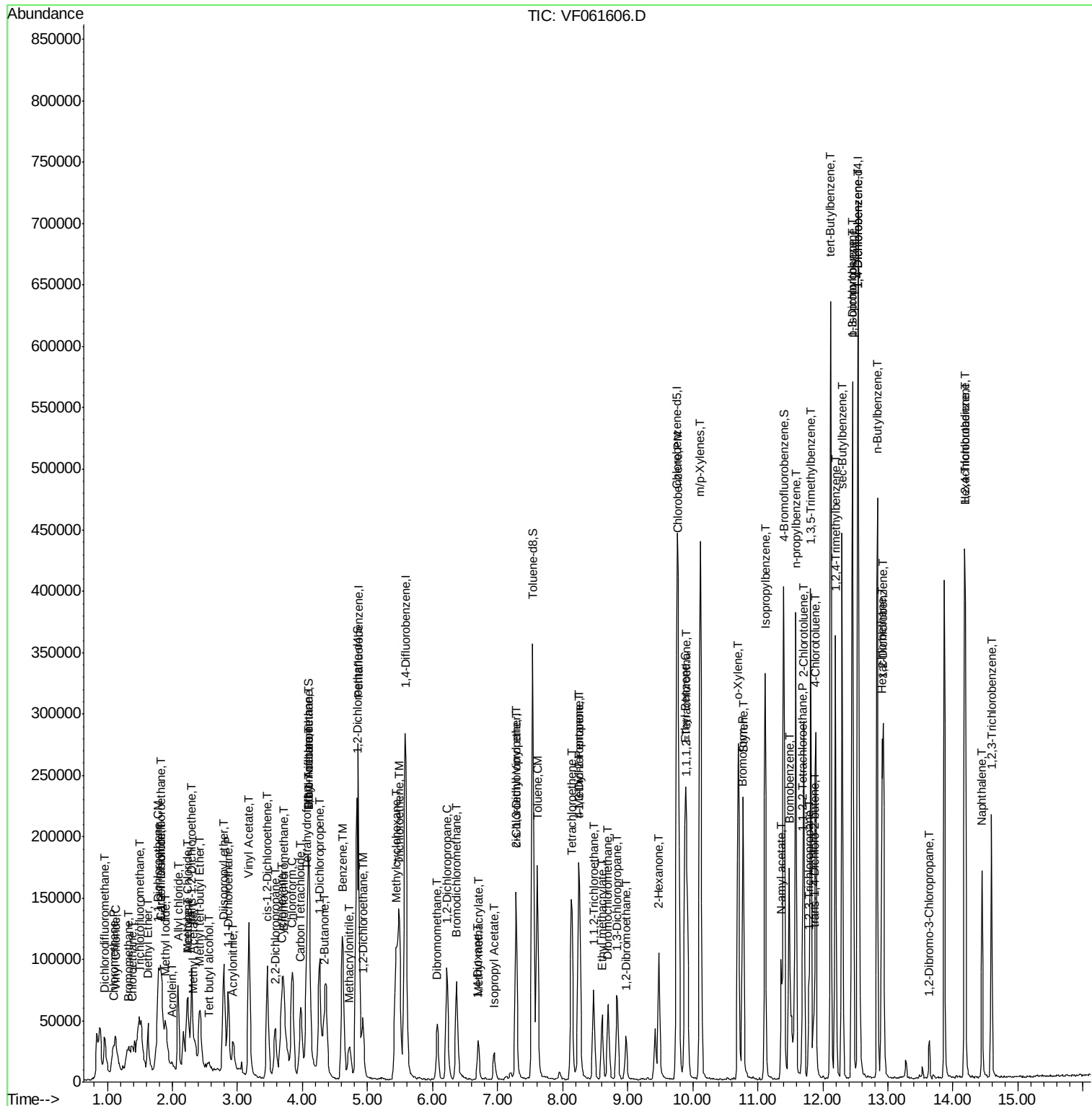
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	62887	19.568	ug/l	96
94) Hexachlorobutadiene	14.18	225	40079	20.098	ug/l	95
95) Naphthalene	14.45	128	109595	17.949	ug/l	100
96) 1,2,3-Trichlorobenzene	14.60	180	56635	19.037	ug/l	93

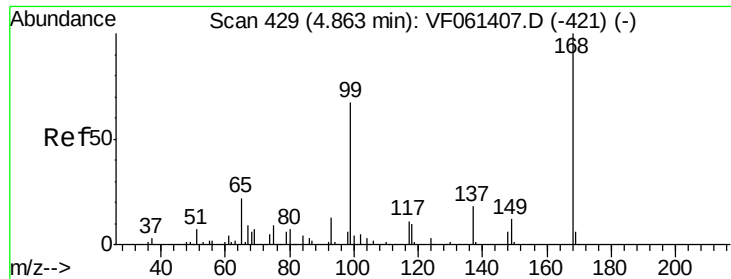
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 12 Feb 2019 13:56
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Quant Title : SW846 8260
QLast Update : Wed Jan 16 04:51:59 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

Instrument :

MSVOA_F

ClientSampleId :

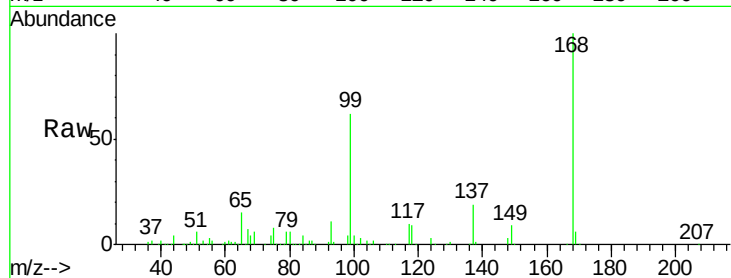
VF0212SBSD01

Tot Ion:168 Resp: 172637

Ion Ratio Lower Upper

168 100

99 61.5 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

80000

60000

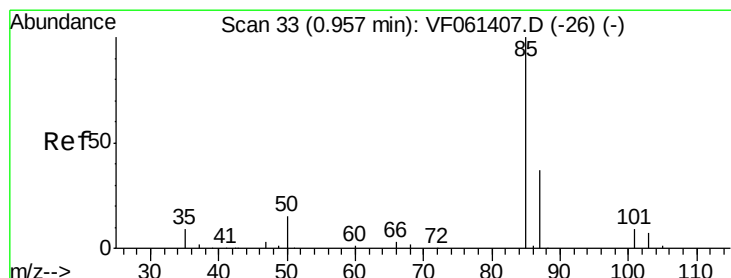
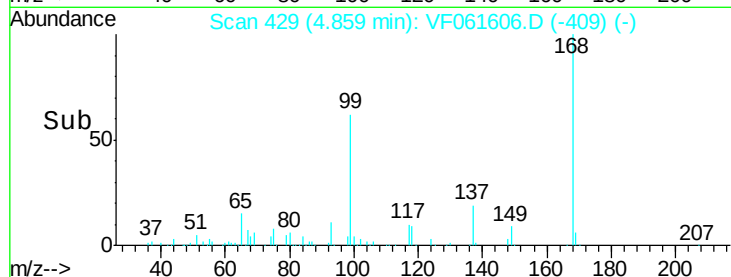
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 17.310 ug/l

RT: 0.96 min Scan# 34

Delta R.T. 0.01 min

Lab File: VF061606.D

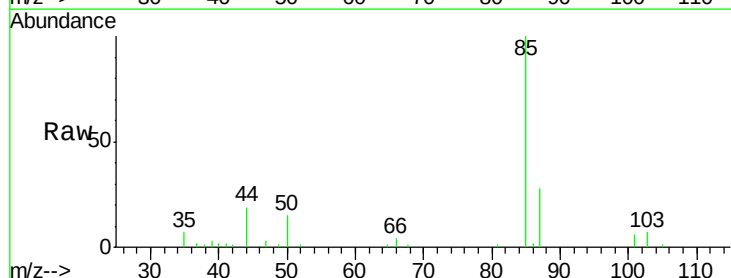
Acq: 12 Feb 2019 13:56

Tgt Ion: 85 Resp: 58718

Ion Ratio Lower Upper

85 100

87 28.3 18.4 55.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

20000

15000

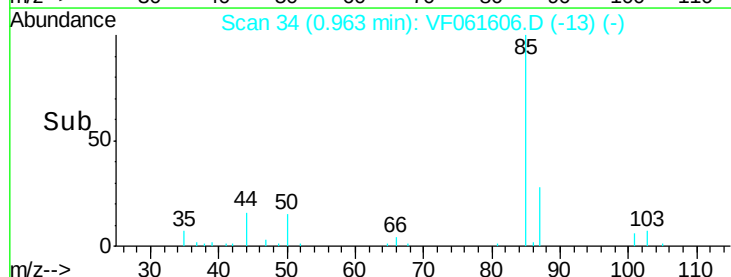
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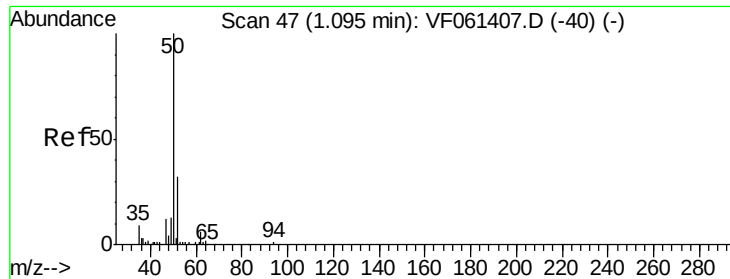
5000

0

Time-->

0.80 0.90 1.00 1.10





#3

Chloromethane

Concen: 17.115 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

Instrument :

MSVOA_F

ClientSampleId :

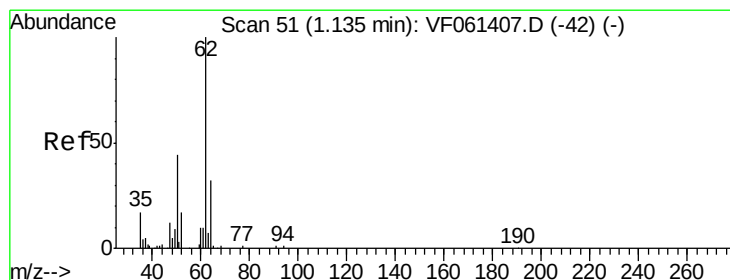
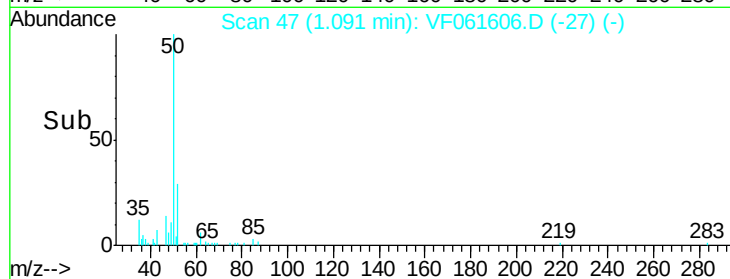
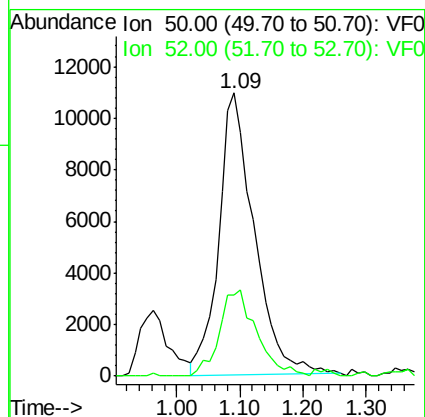
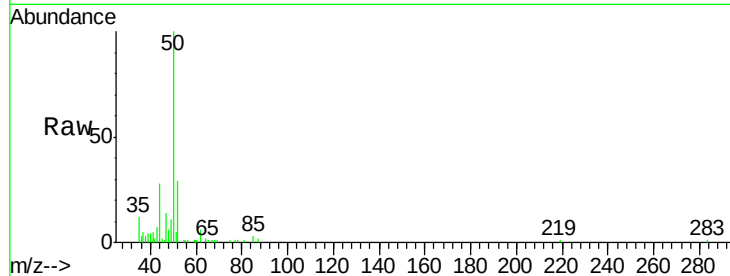
VF0212SBSD01

Tot Ion: 50 Resp: 42569

Ion Ratio Lower Upper

50 100

52 28.5 24.6 36.8



#4

Vinyl Chloride

Concen: 17.251 ug/l

RT: 1.13 min Scan# 51

Delta R.T. -0.00 min

Lab File: VF061606.D

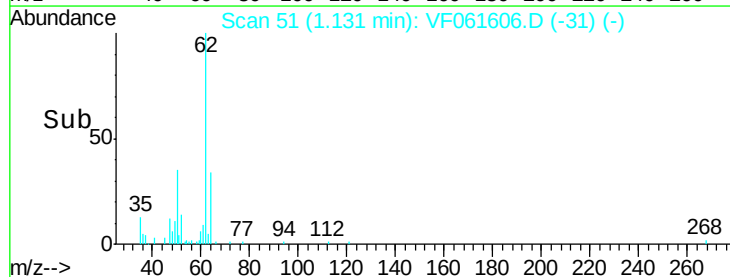
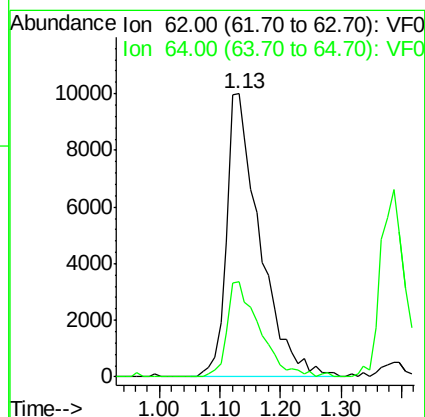
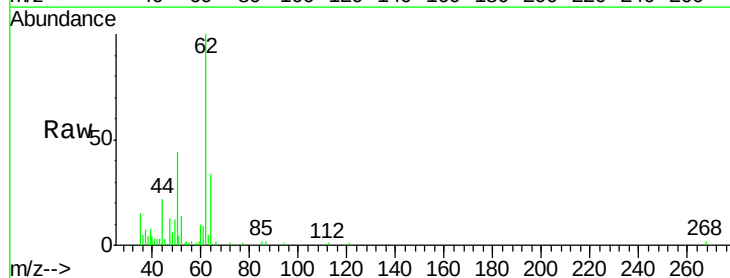
Acq: 12 Feb 2019 13:56

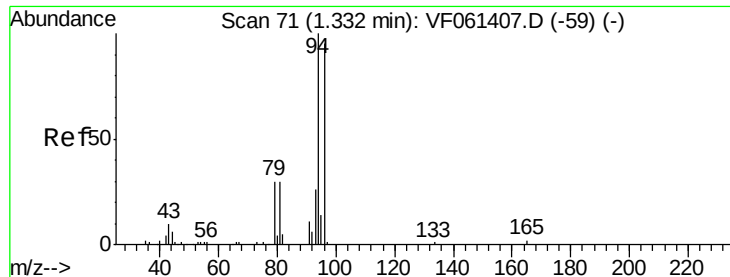
Tgt Ion: 62 Resp: 38167

Ion Ratio Lower Upper

62 100

64 33.5 25.6 38.4





#5

Bromomethane

Concen: 20.240 ug/l

RT: 1.33 min Scan# 71

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

Instrument :

MSVOA_F

ClientSampleId :

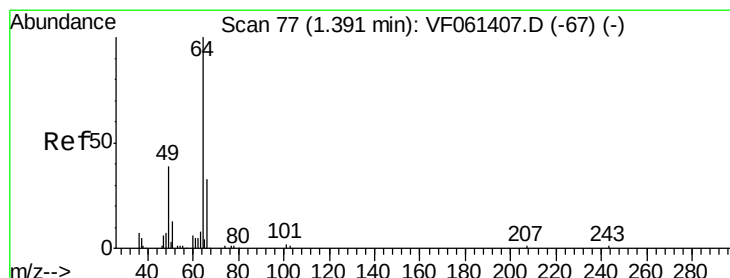
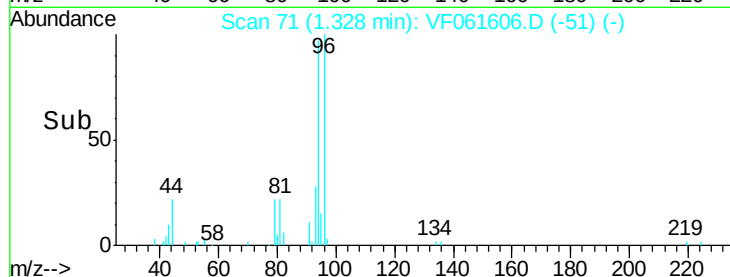
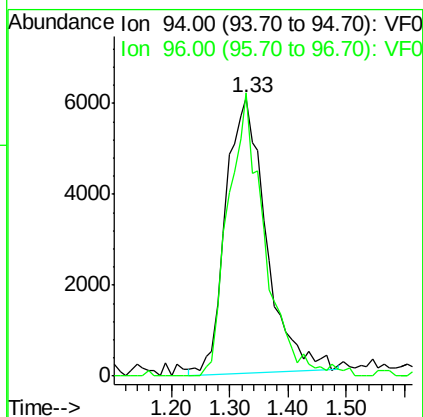
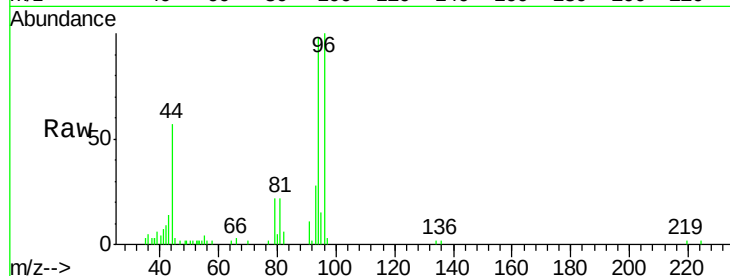
VF0212SBSD01

Tot Ion: 94 Resp: 29201

Ion Ratio Lower Upper

94 100

96 101.5 76.0 114.0



#6

Chloroethane

Concen: 20.335 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.00 min

Lab File: VF061606.D

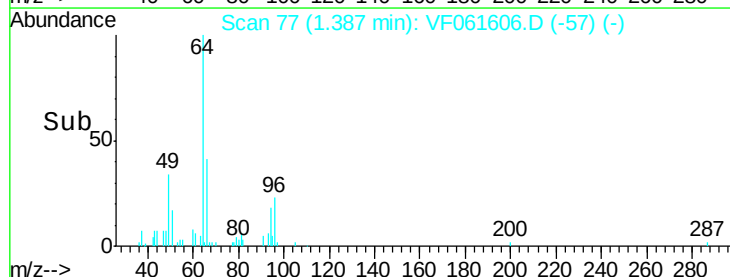
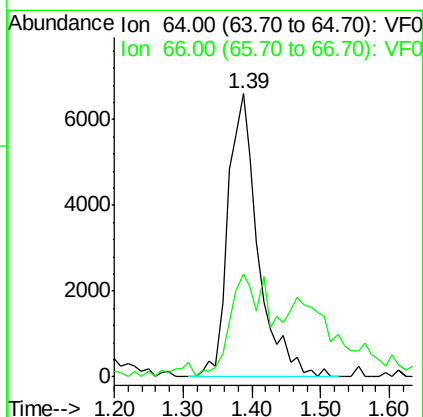
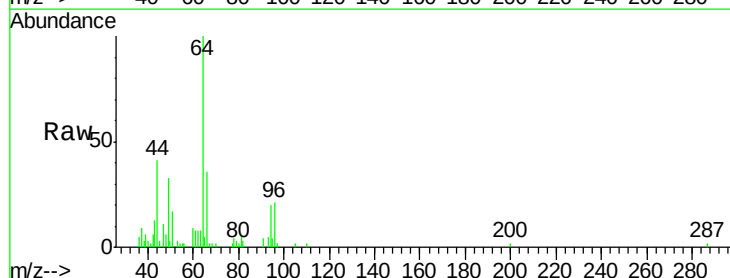
Acq: 12 Feb 2019 13:56

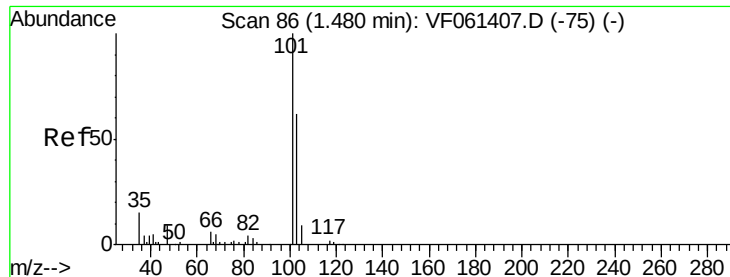
Tgt Ion: 64 Resp: 19936

Ion Ratio Lower Upper

64 100

66 36.3 26.6 40.0



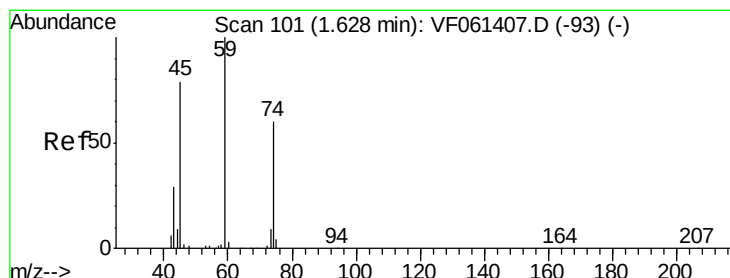
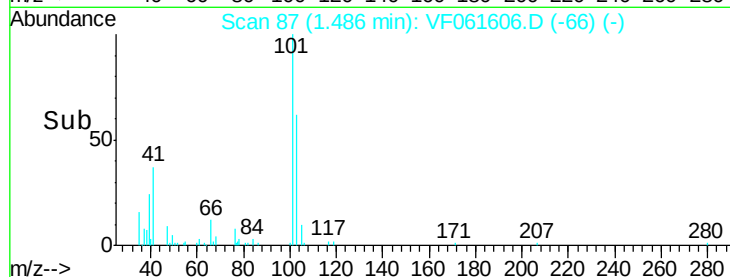
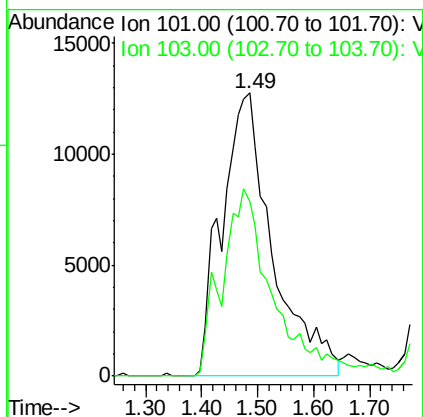
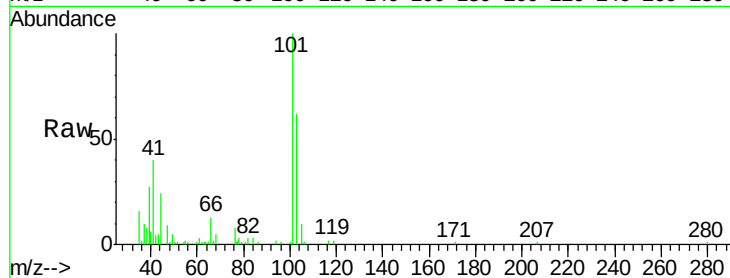


#7

Trichlorofluoromethane
 Concen: 18.754 ug/l
 RT: 1.49 min Scan# 87
 Delta R.T. 0.01 min
 Lab File: VF061606.D
 Acq: 12 Feb 2019 13:56

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0212SBSD01

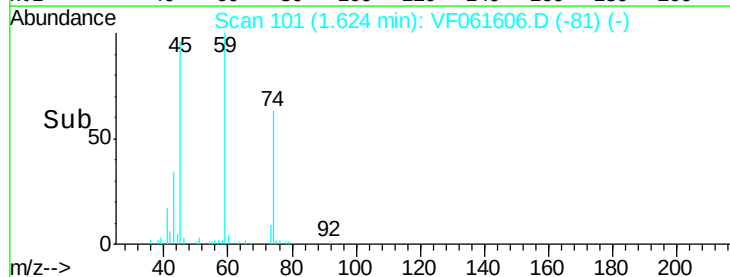
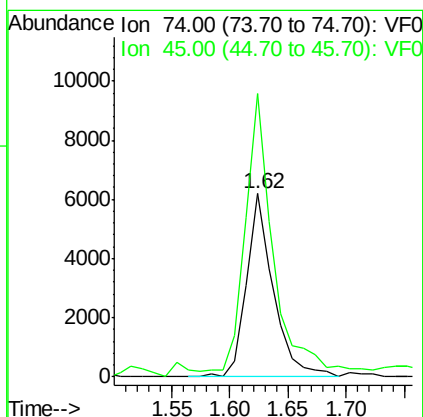
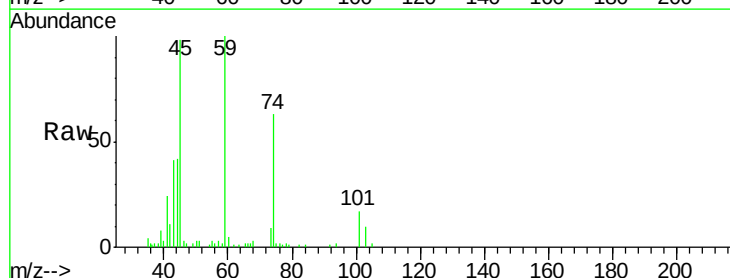
Tot Ion:101 Resp: 80666
 Ion Ratio Lower Upper
 101 100
 103 61.7 49.7 74.5

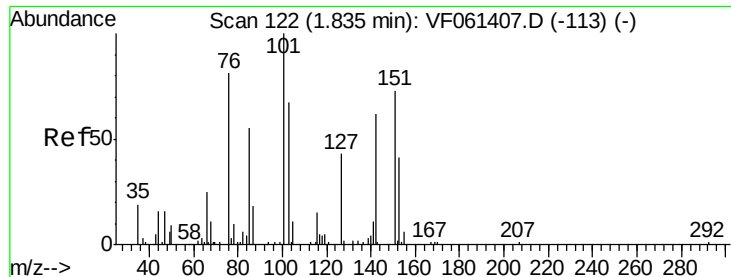


#8

Diethyl Ether
 Concen: 17.940 ug/l
 RT: 1.62 min Scan# 101
 Delta R.T. -0.00 min
 Lab File: VF061606.D
 Acq: 12 Feb 2019 13:56

Tgt Ion: 74 Resp: 9887
 Ion Ratio Lower Upper
 74 100
 45 154.6 65.8 197.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.389 ug/l

RT: 1.82 min Scan# 121

Delta R.T. -0.01 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

Instrument :

MSVOA_F

ClientSampleId :

VF0212SBSD01

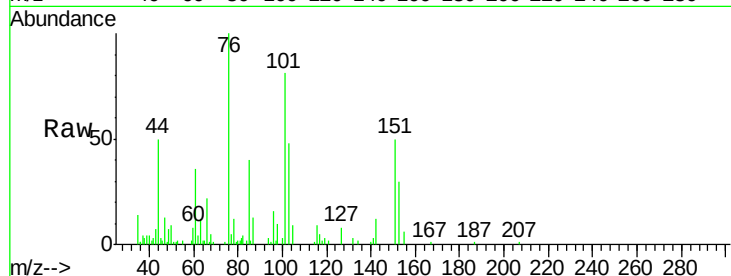
Tot Ion:101 Resp: 44204

Ion Ratio Lower Upper

101 100

85 49.5 41.9 62.9

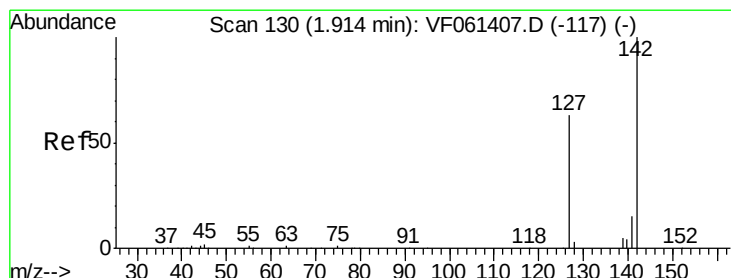
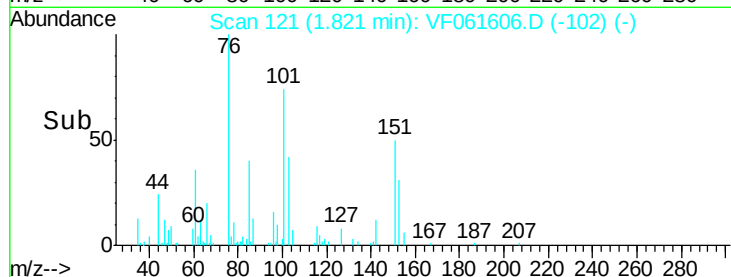
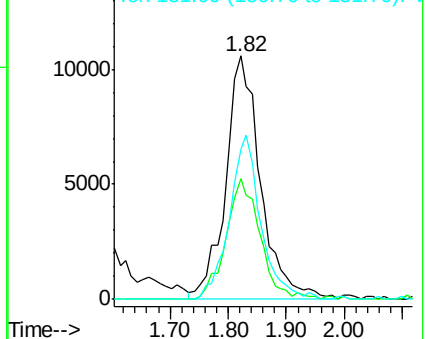
151 61.6 55.1 82.7



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: 18.864 ug/l m

RT: 1.89 min Scan# 128

Delta R.T. -0.02 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

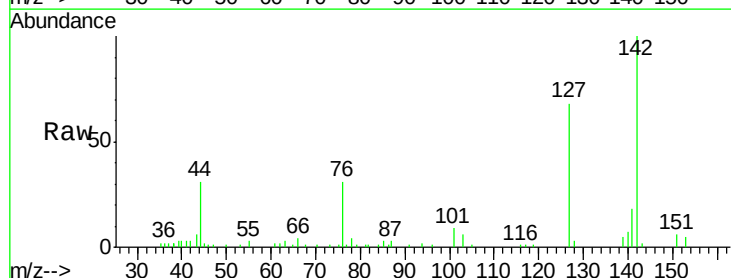
Tgt Ion:142 Resp: 60439

Ion Ratio Lower Upper

142 100

127 68.5 50.7 76.1

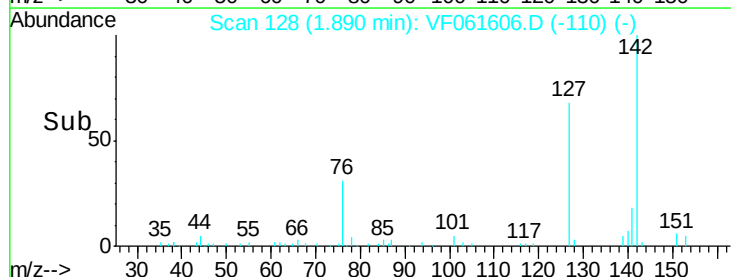
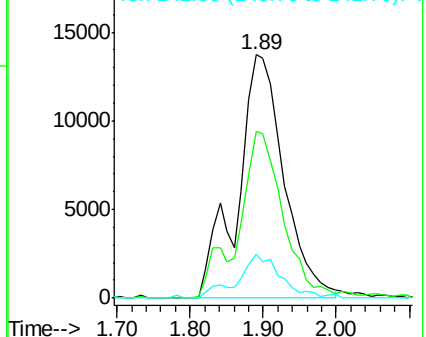
141 17.9 11.8 17.6#

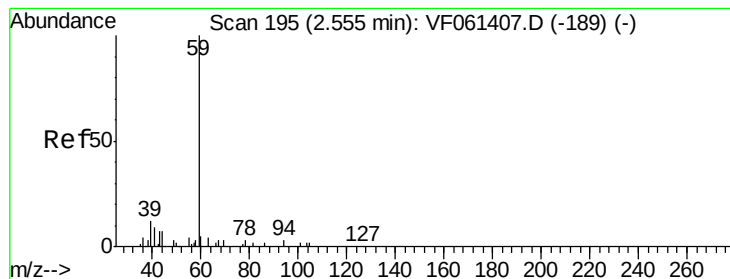


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



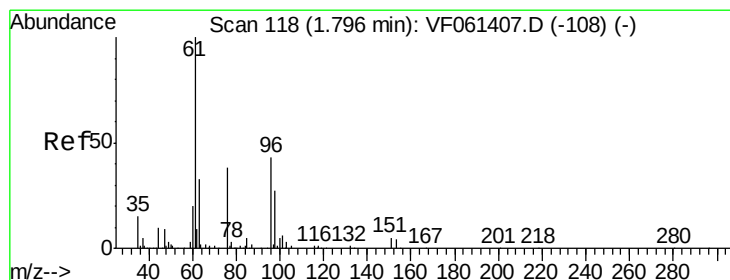
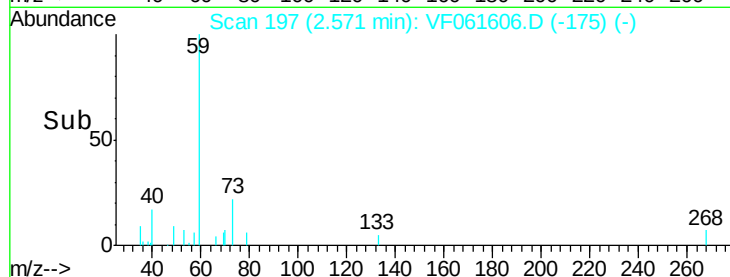
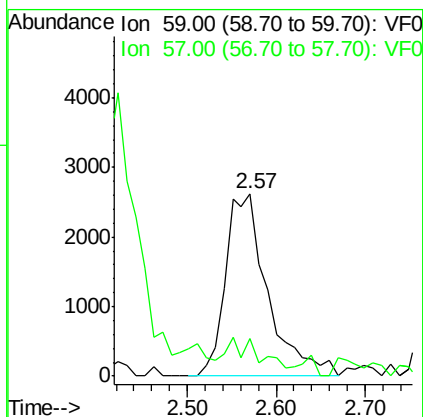
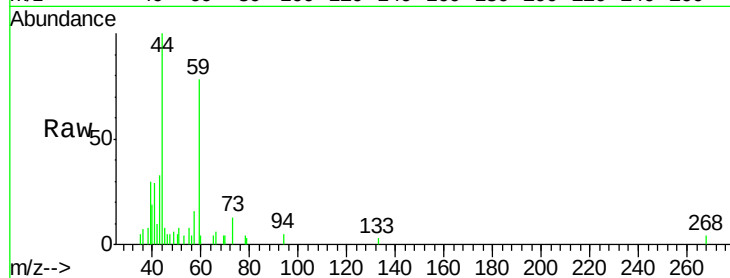


#11

Tert butyl alcohol
Concen: 96.498 ug/l
RT: 2.57 min Scan# 197
Delta R.T. 0.02 min
Lab File: VF061606.D
Acq: 12 Feb 2019 13:56

Instrument :
MSVOA_F
ClientSampleId :
VF0212SBSD01

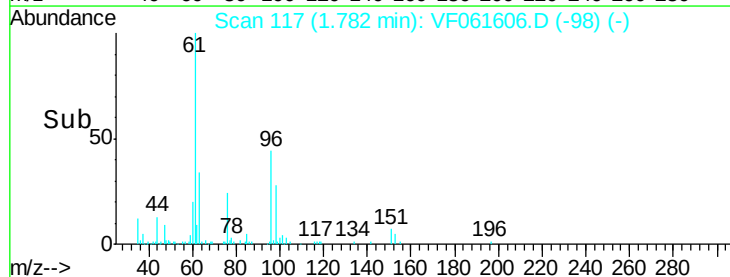
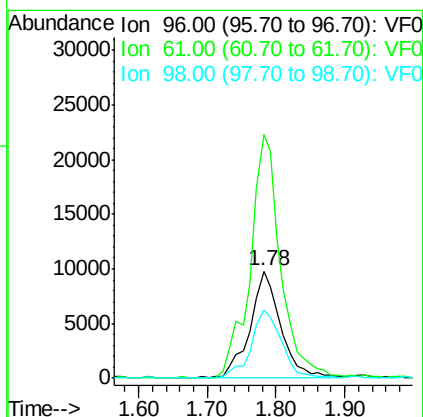
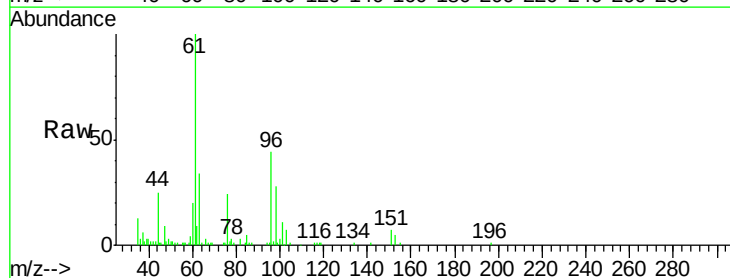
Tot Ion: 59 Resp: 8706
Ion Ratio Lower Upper
59 100
57 20.4 11.9 17.9#

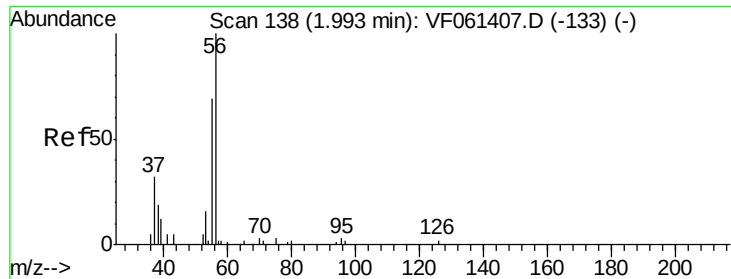


#12

1,1-Dichloroethene
Concen: 19.951 ug/l
RT: 1.78 min Scan# 117
Delta R.T. -0.01 min
Lab File: VF061606.D
Acq: 12 Feb 2019 13:56

Tgt Ion: 96 Resp: 30633
Ion Ratio Lower Upper
96 100
61 228.3 186.9 280.3
98 64.3 53.0 79.4





#13

Acrolein

Concen: 63.001 ug/l

RT: 2.00 min Scan# 139

Delta R.T. 0.01 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

Instrument :

MSVOA_F

ClientSampleId :

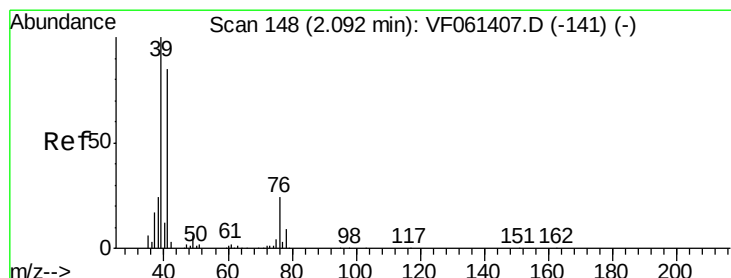
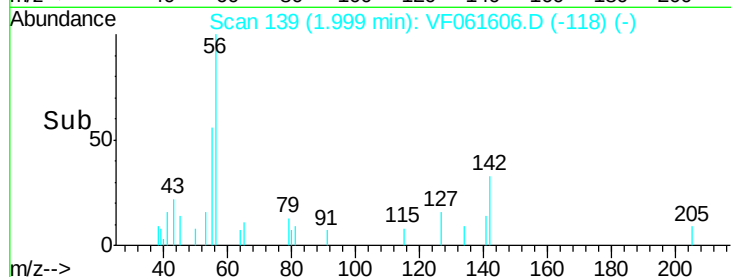
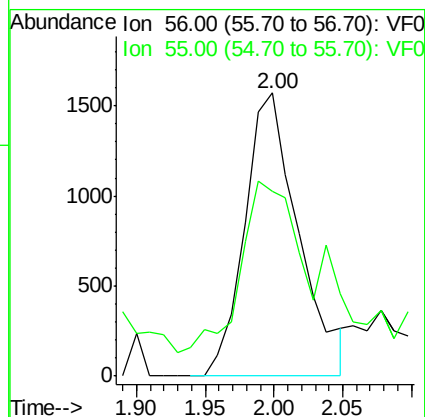
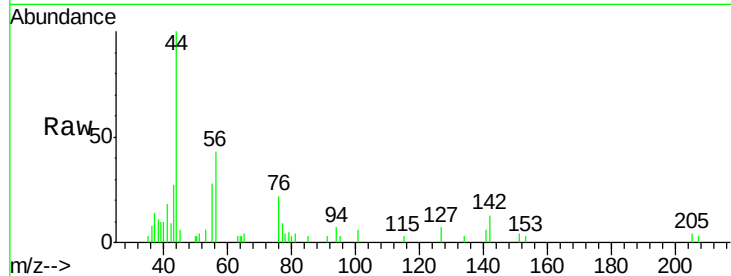
VF0212SBSD01

Tot Ion: 56 Resp: 4269

Ion Ratio Lower Upper

56 100

55 65.5 57.5 86.3



#14

Allyl chloride

Concen: 18.955 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

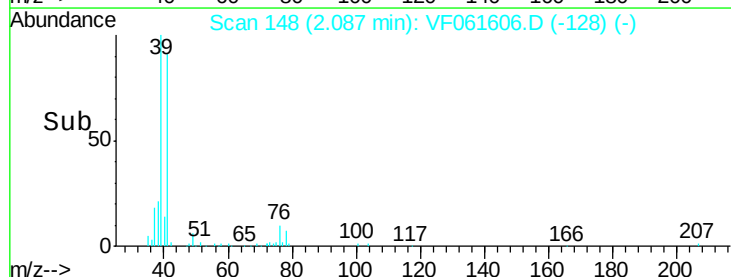
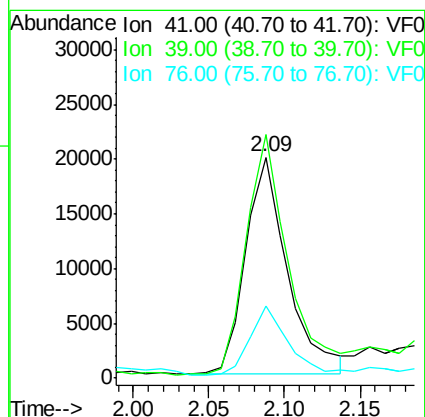
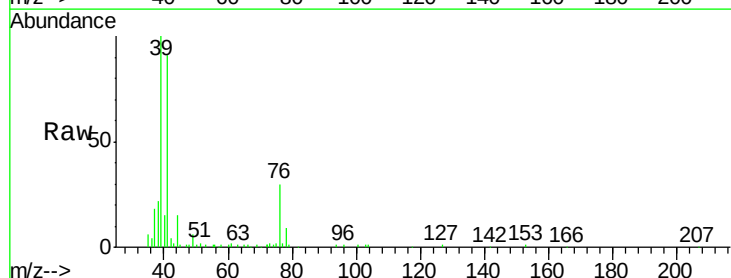
Tgt Ion: 41 Resp: 38637

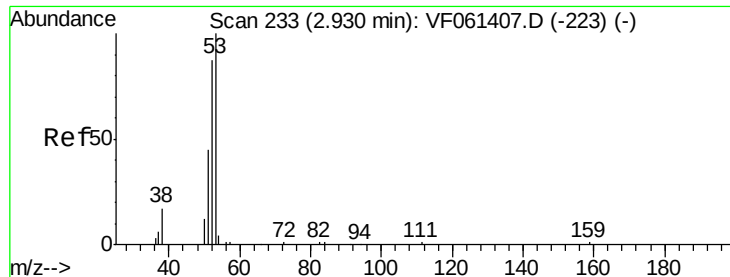
Ion Ratio Lower Upper

41 100

39 110.1 94.6 141.8

76 32.6 25.9 38.9





#15

Acrylonitrile

Concen: 96.029 ug/l

RT: 2.94 min Scan# 234

Delta R.T. 0.01 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

Instrument :

MSVOA_F

ClientSampleId :

VF0212SBS01

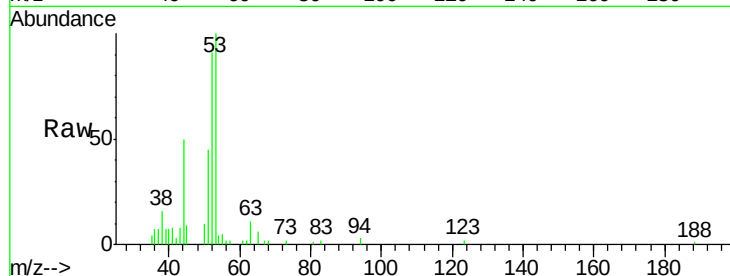
Tot Ion: 53 Resp: 22192

Ion Ratio Lower Upper

53 100

52 91.4 69.6 104.4

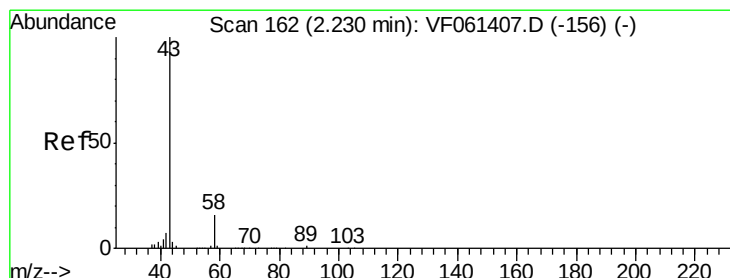
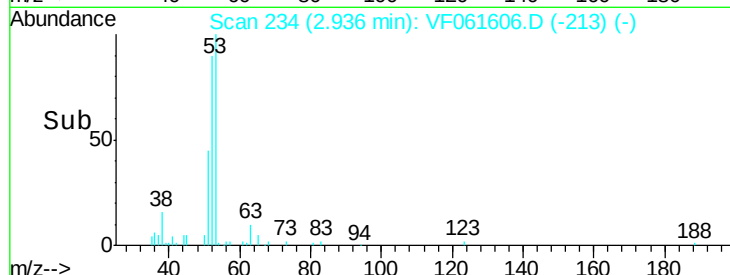
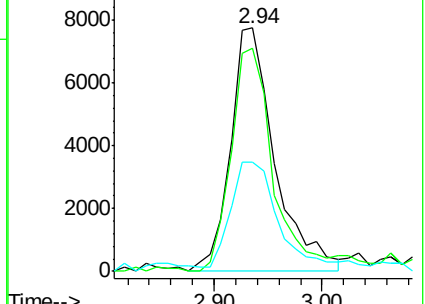
51 44.6 36.8 55.2



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 108.268 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.00 min

Lab File: VF061606.D

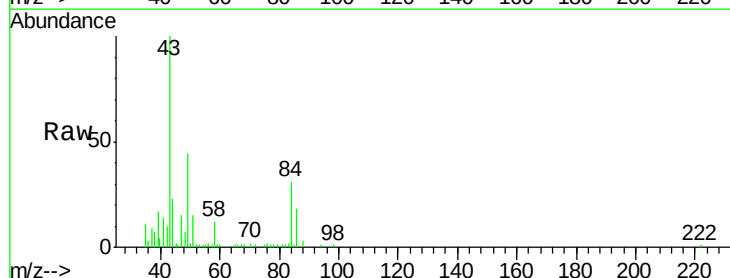
Acq: 12 Feb 2019 13:56

Tgt Ion: 43 Resp: 46294

Ion Ratio Lower Upper

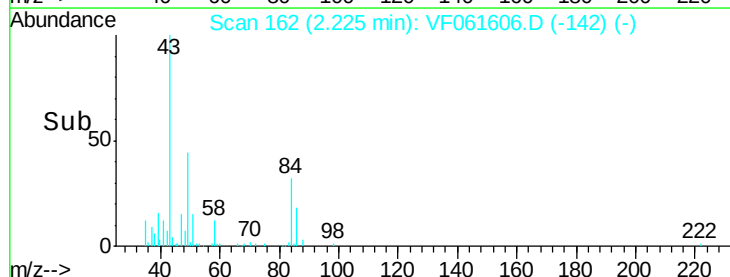
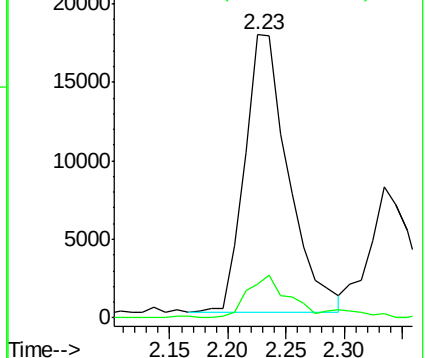
43 100

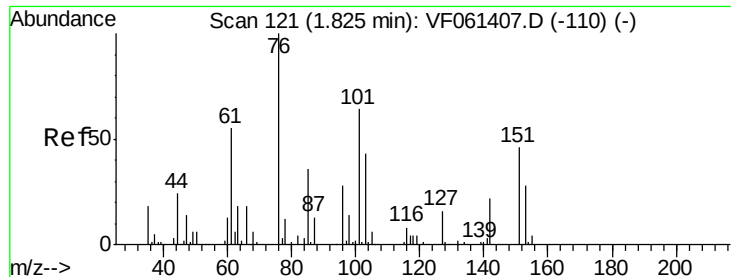
58 11.9 13.3 19.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#17

Carbon Disulfide

Concen: 17.331 ug/l

RT: 1.82 min Scan# 121

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

Instrument :

MSVOA_F

ClientSampleId :

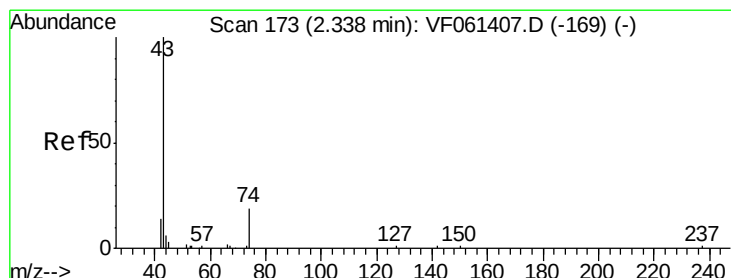
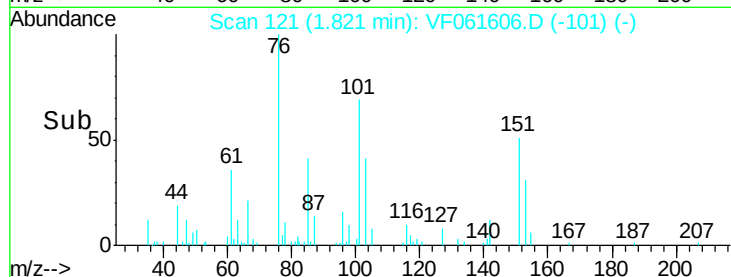
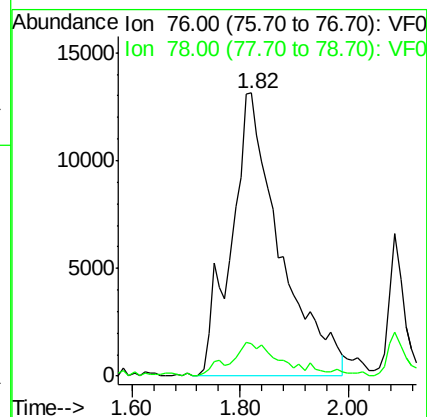
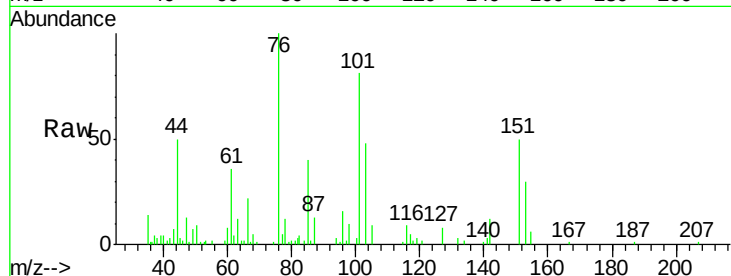
VF0212SBSD01

Tot Ion: 76 Resp: 82972

Ion Ratio Lower Upper

76 100

78 11.6 9.6 14.4



#18

Methyl Acetate

Concen: 19.076 ug/l

RT: 2.33 min Scan# 173

Delta R.T. -0.00 min

Lab File: VF061606.D

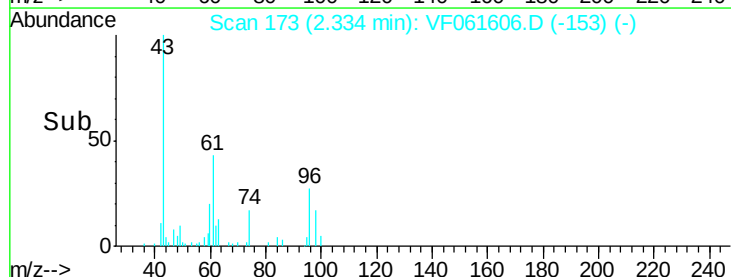
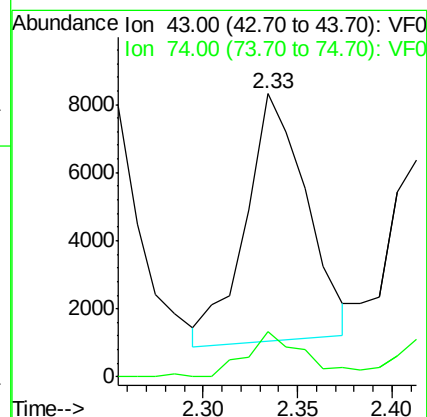
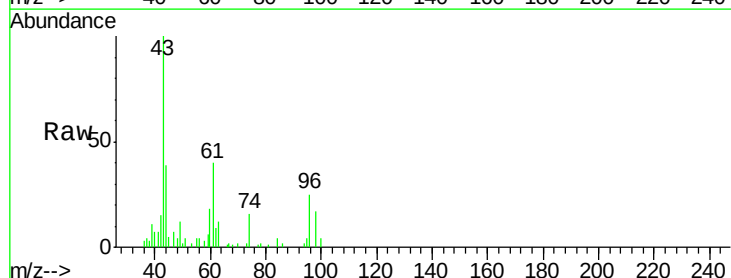
Acq: 12 Feb 2019 13:56

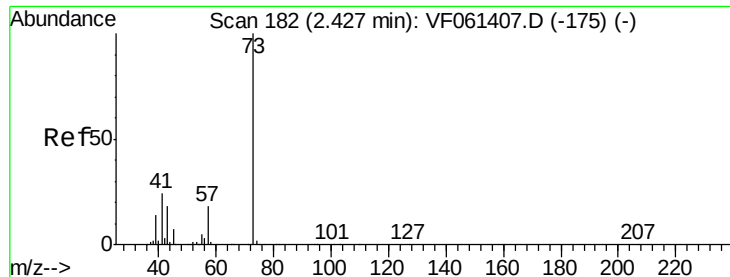
Tgt Ion: 43 Resp: 16176

Ion Ratio Lower Upper

43 100

74 16.1 13.4 20.0



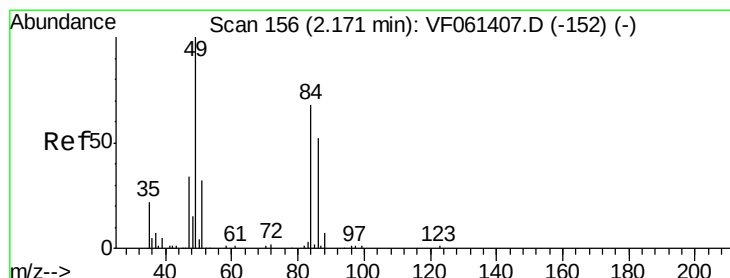
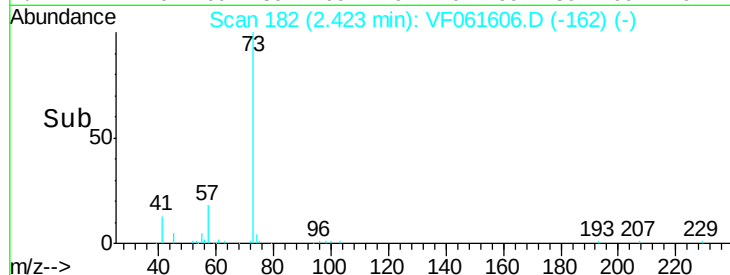
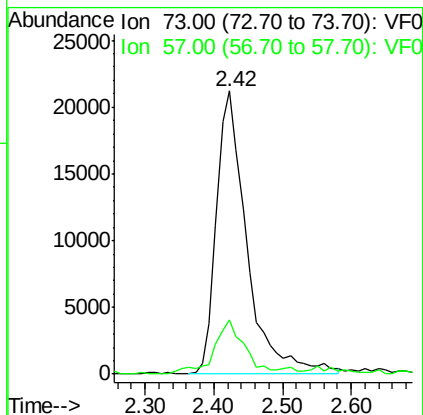
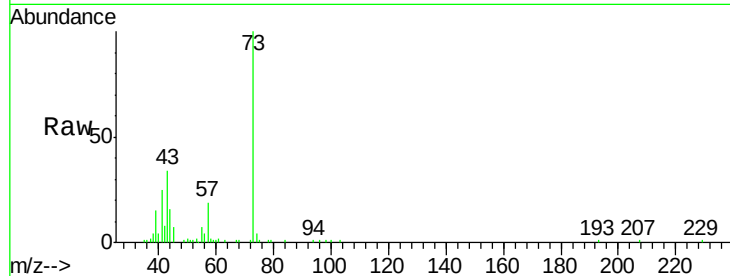


#19

Methyl tert-butyl Ether
 Concen: 19.012 ug/l
 RT: 2.42 min Scan# 182
 Delta R.T. -0.00 min
 Lab File: VF061606.D
 Acq: 12 Feb 2019 13:56

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0212SBSD01

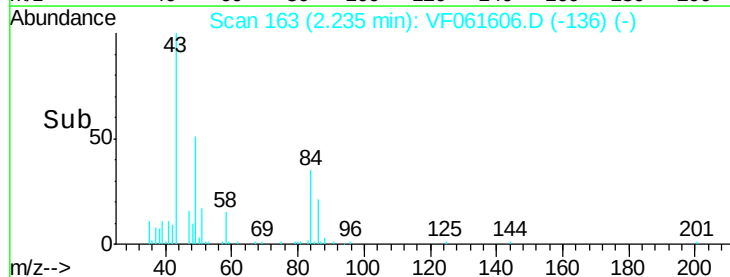
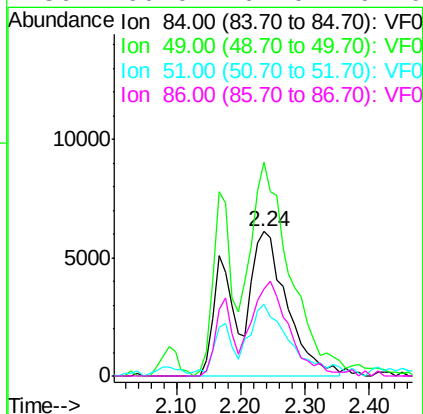
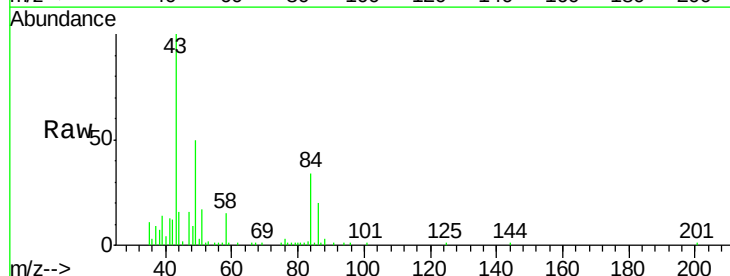
Tot Ion: 73 Resp: 65440
 Ion Ratio Lower Upper
 73 100
 57 19.2 14.8 22.2

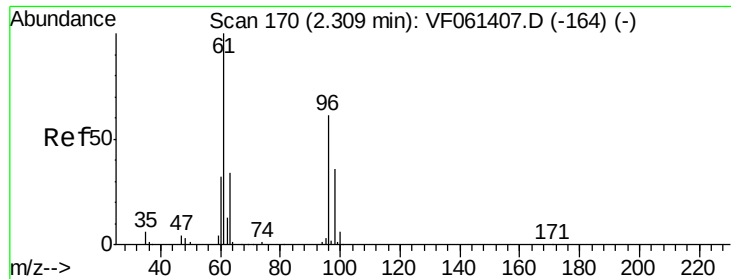


#20

Methylene Chloride
 Concen: 22.644 ug/l m
 RT: 2.24 min Scan# 163
 Delta R.T. 0.07 min
 Lab File: VF061606.D
 Acq: 12 Feb 2019 13:56

Tgt Ion: 84 Resp: 34263
 Ion Ratio Lower Upper
 84 100
 49 147.9 120.0 180.0
 51 49.3 38.6 58.0
 86 60.0 61.0 91.6#





#21

trans-1,2-Dichloroethene

Concen: 18.273 ug/l

RT: 2.30 min Scan# 170

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

Instrument :

MSVOA_F

ClientSampleId :

VF0212SBS01

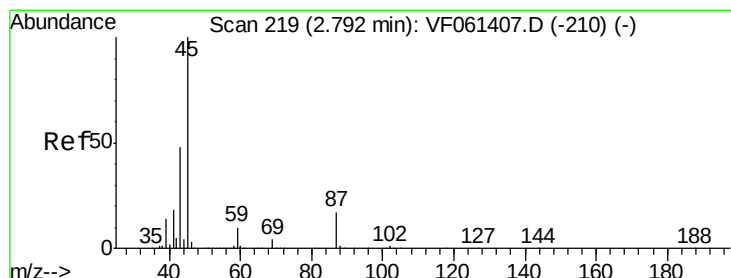
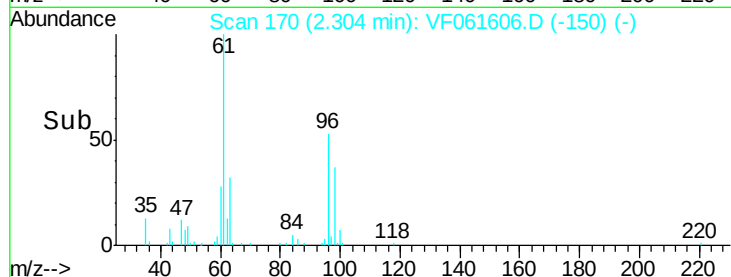
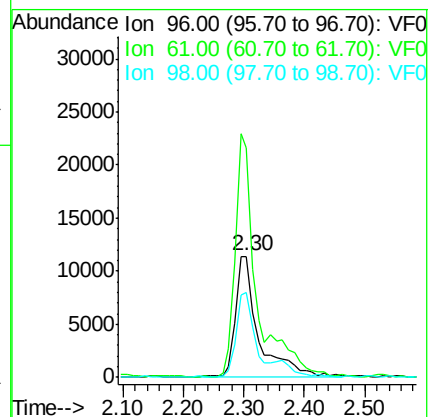
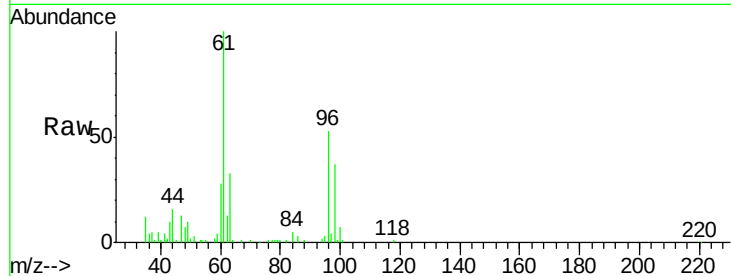
Tot Ion: 96 Resp: 30869

Ion Ratio Lower Upper

96 100

61 189.5 131.8 197.8

98 70.0 47.4 71.0



#22

Diisopropyl ether

Concen: 19.579 ug/l

RT: 2.79 min Scan# 219

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

Tgt Ion: 45 Resp: 106980

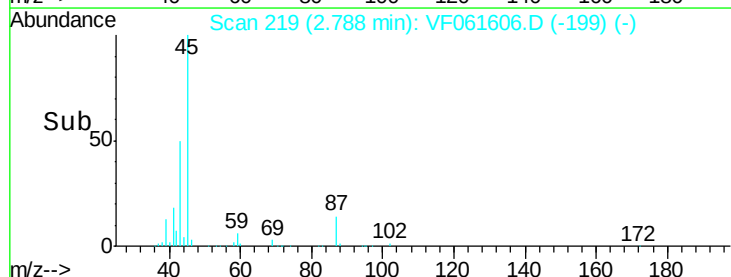
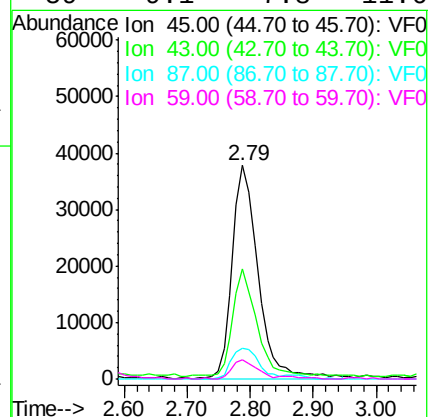
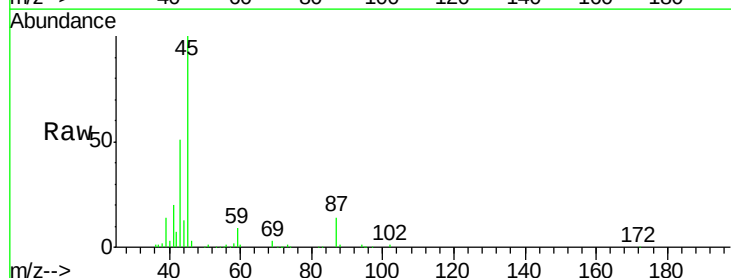
Ion Ratio Lower Upper

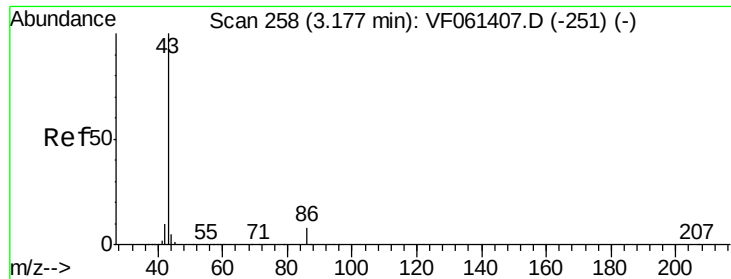
45 100

43 51.4 39.0 58.6

87 14.3 13.9 20.9

59 9.1 7.8 11.6





#23

Vinyl Acetate

Concen: 106.113 ug/l

RT: 3.17 min Scan# 258

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

Instrument :

MSVOA_F

ClientSampleId :

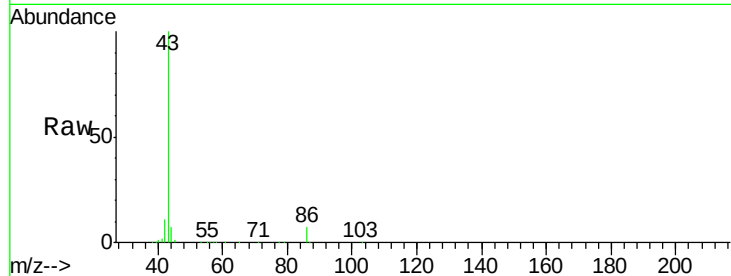
VF0212SBSD01

Tot Ion: 43 Resp: 250552

Ion Ratio Lower Upper

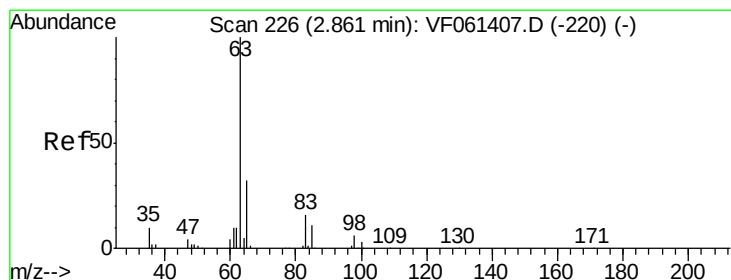
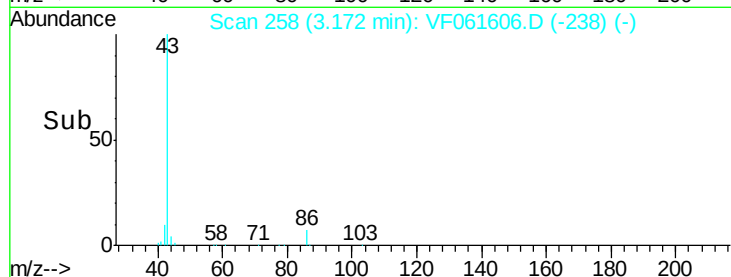
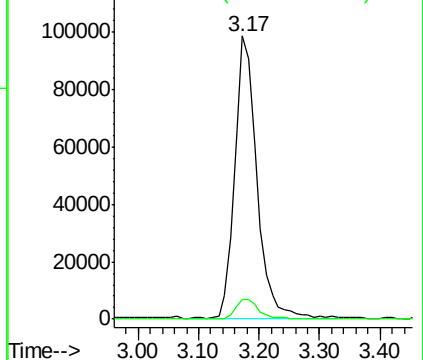
43 100

86 6.8 6.2 9.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 19.499 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

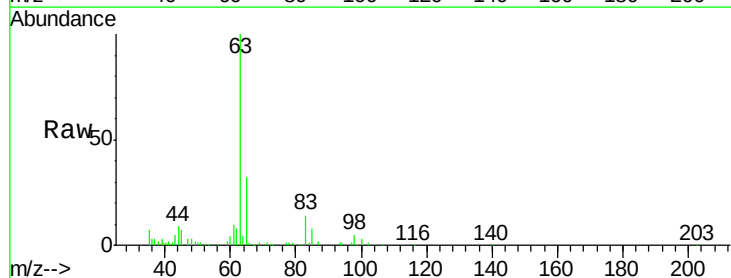
Tgt Ion: 63 Resp: 66869

Ion Ratio Lower Upper

63 100

98 5.1 2.9 8.8

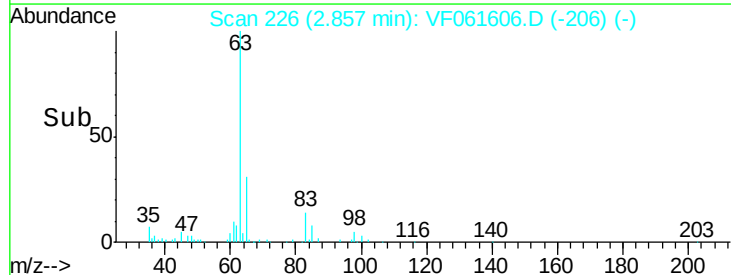
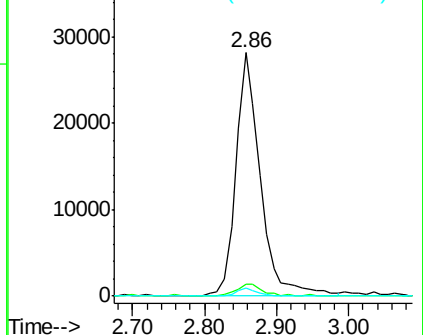
100 3.3 1.6 4.8

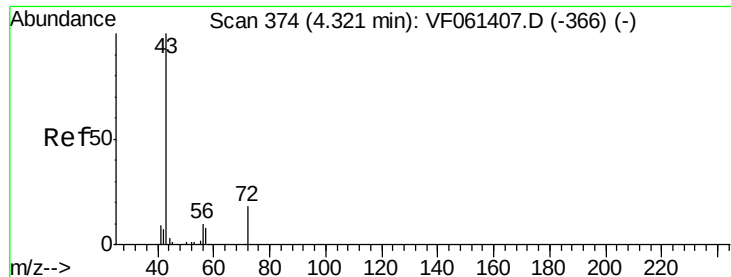


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 96.972 ug/l

RT: 4.33 min Scan# 375

Delta R.T. 0.01 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

Instrument :

MSVOA_F

ClientSampleId :

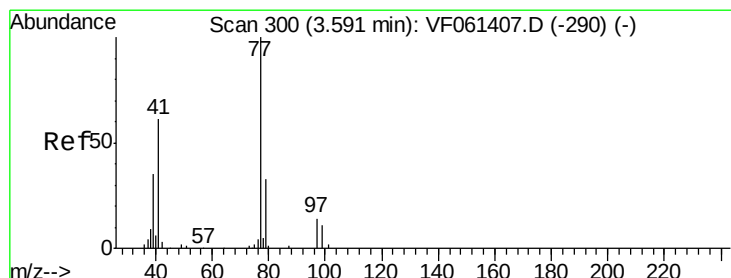
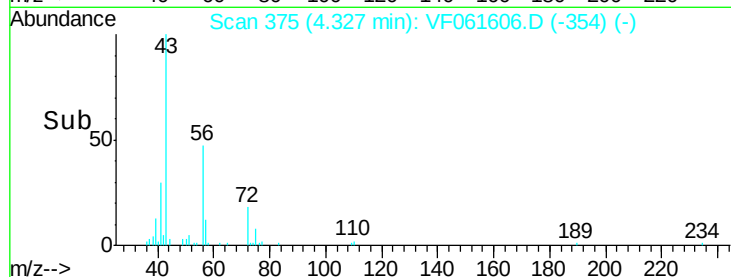
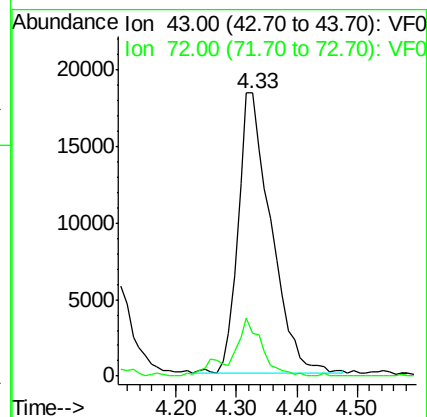
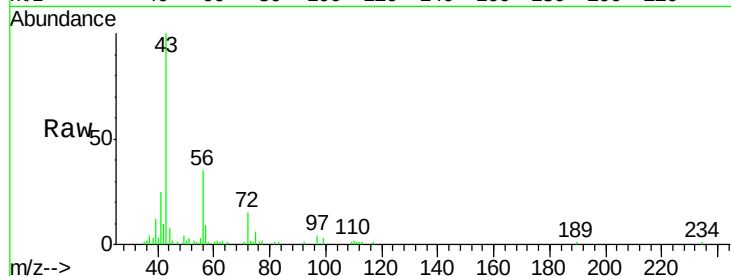
VF0212SBSD01

Tot Ion: 43 Resp: 68953

Ion Ratio Lower Upper

43 100

72 15.0 15.8 23.6#



#26

2,2-Dichloropropane

Concen: 18.332 ug/l

RT: 3.59 min Scan# 300

Delta R.T. -0.00 min

Lab File: VF061606.D

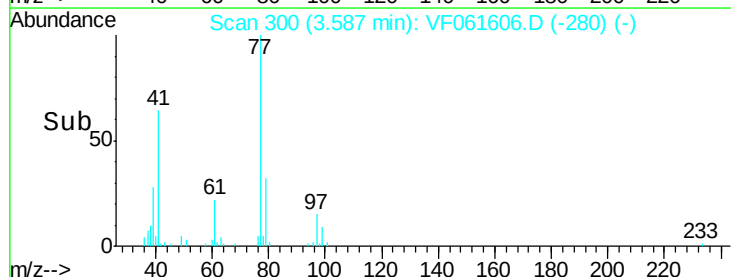
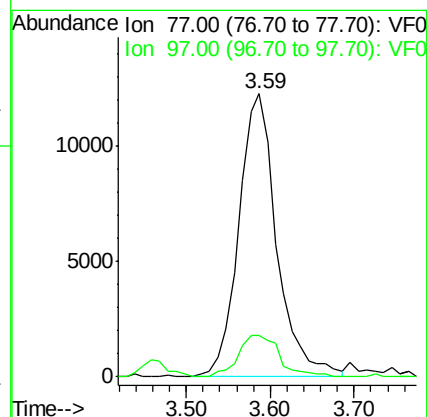
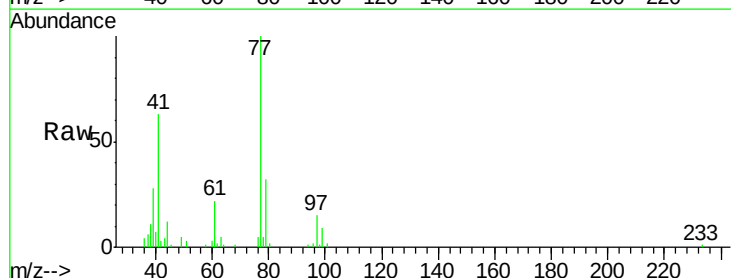
Acq: 12 Feb 2019 13:56

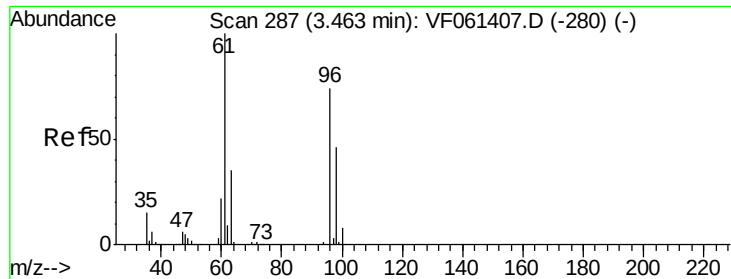
Tgt Ion: 77 Resp: 38626

Ion Ratio Lower Upper

77 100

97 14.6 8.5 25.5



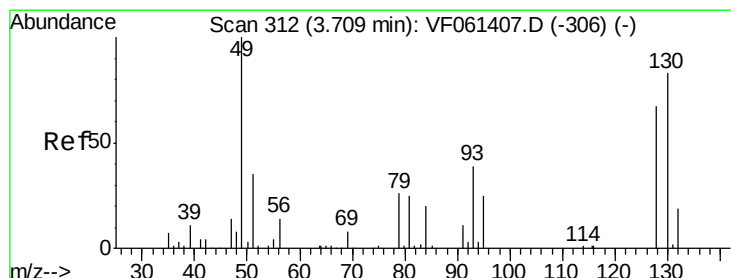
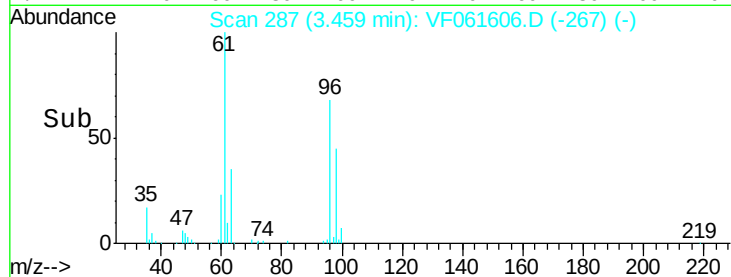
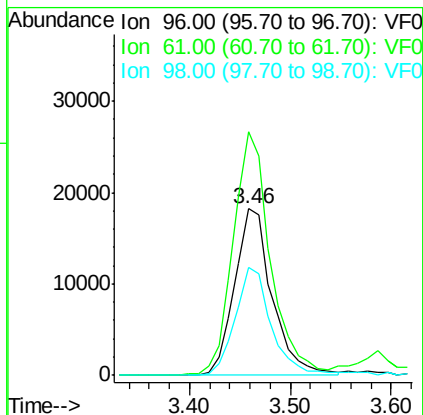
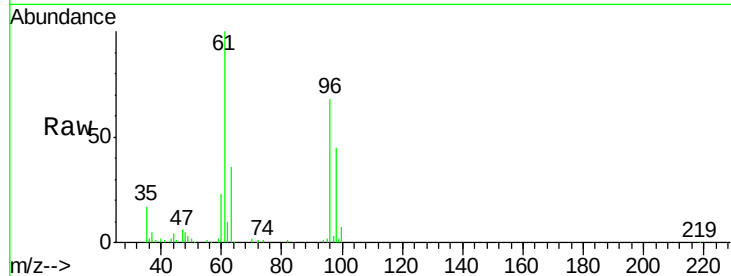


#27

cis-1,2-Dichloroethene
Concen: 18.943 ug/l
RT: 3.46 min Scan# 287
Delta R.T. -0.00 min
Lab File: VF061606.D
Acq: 12 Feb 2019 13:56

Instrument :
MSVOA_F
ClientSampleId :
VF0212SBS01

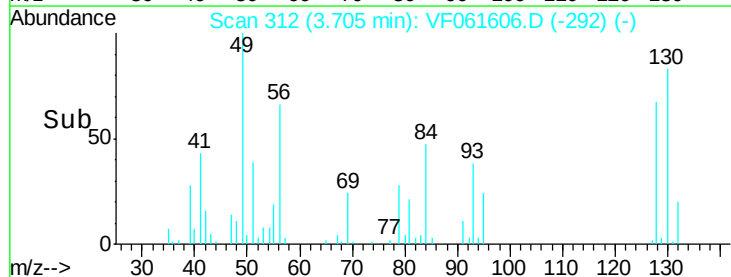
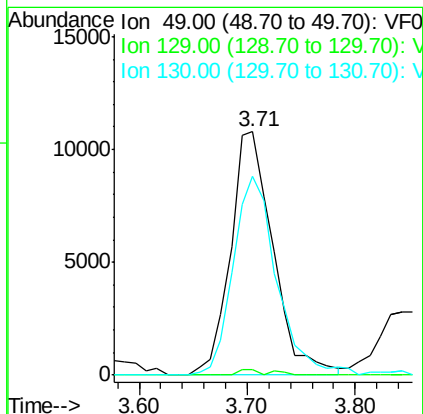
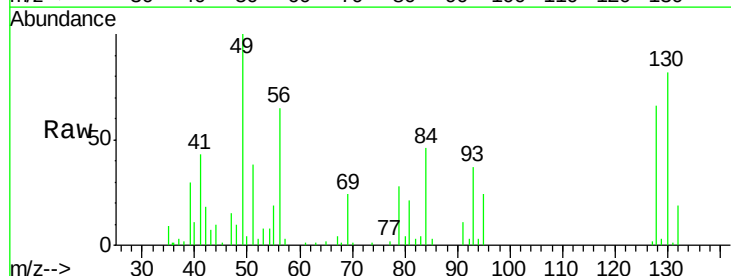
Tot Ion: 96 Resp: 47239
Ion Ratio Lower Upper
96 100
61 146.3 0.0 270.2
98 65.2 0.0 124.0

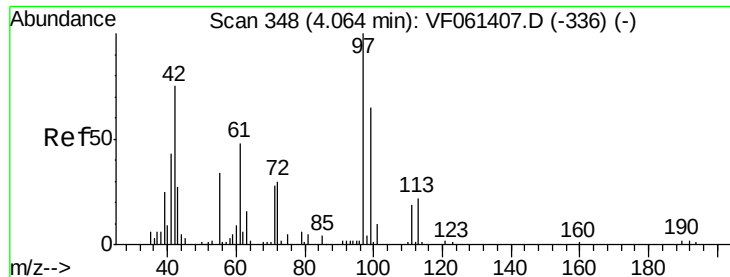


#28

Bromochloromethane
Concen: 19.230 ug/l
RT: 3.71 min Scan# 312
Delta R.T. -0.00 min
Lab File: VF061606.D
Acq: 12 Feb 2019 13:56

Tgt Ion: 49 Resp: 29643
Ion Ratio Lower Upper
49 100
129 2.5 0.0 0.0#
130 81.6 65.4 98.2





#29

Tetrahydrofuran

Concen: 85.493 ug/l

RT: 4.06 min Scan# 348

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

Instrument :

MSVOA_F

ClientSampleId :

VF0212SBS01

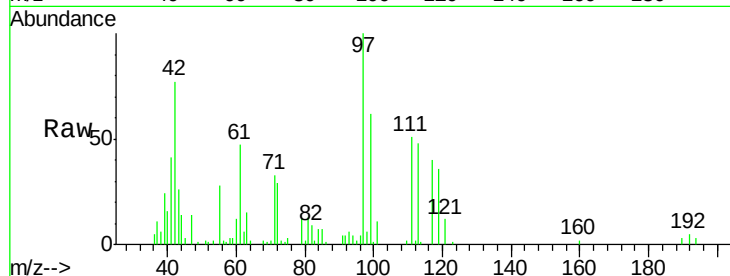
Tot Ion: 42 Resp: 26176

Ion Ratio Lower Upper

42 100

72 39.2 28.9 43.3

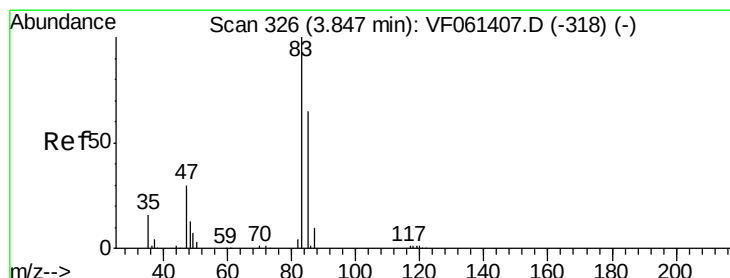
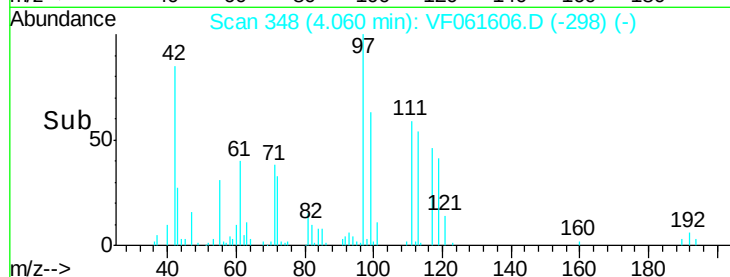
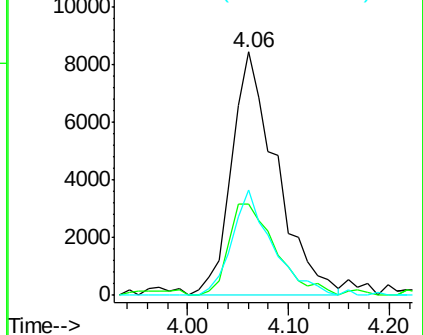
71 38.7 29.6 44.4



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#30

Chloroform

Concen: 20.018 ug/l

RT: 3.84 min Scan# 326

Delta R.T. -0.00 min

Lab File: VF061606.D

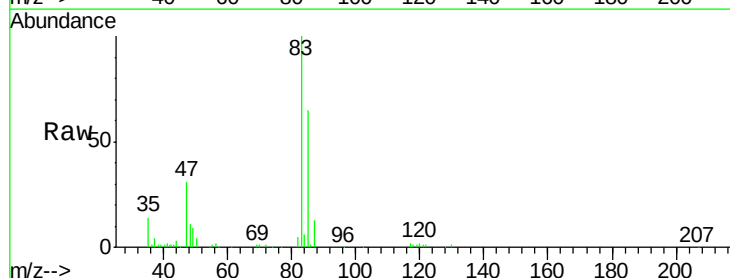
Acq: 12 Feb 2019 13:56

Tgt Ion: 83 Resp: 92647

Ion Ratio Lower Upper

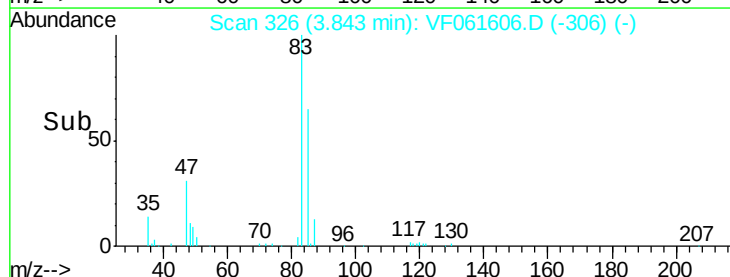
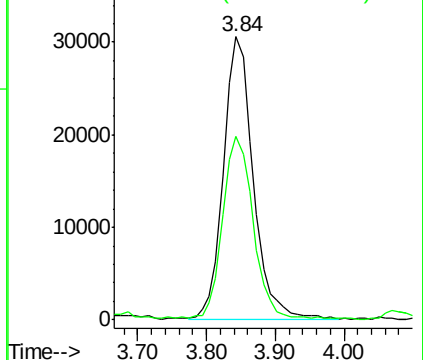
83 100

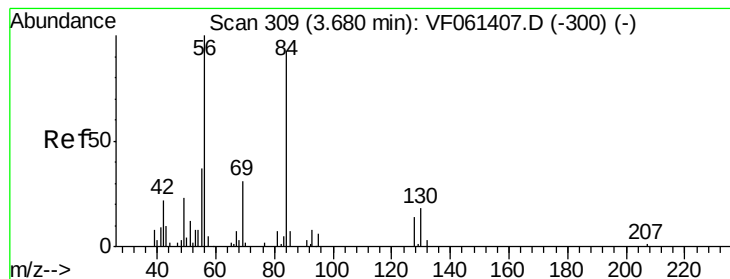
85 64.8 52.7 79.1



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0





#31

Cyclohexane

Concen: 17.623 ug/l

RT: 3.68 min Scan# 309

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

Instrument :

MSVOA_F

ClientSampleId :

VF0212SBSD01

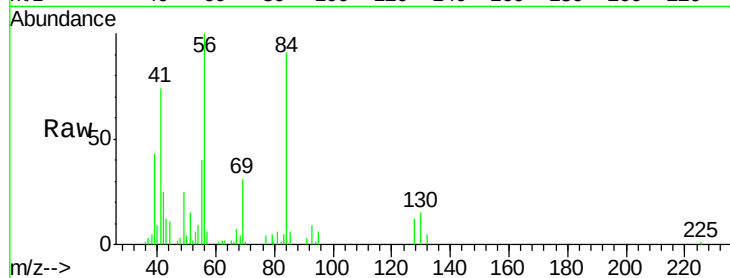
Tot Ion: 56 Resp: 60370

Ion Ratio Lower Upper

56 100

69 31.5 24.6 36.8

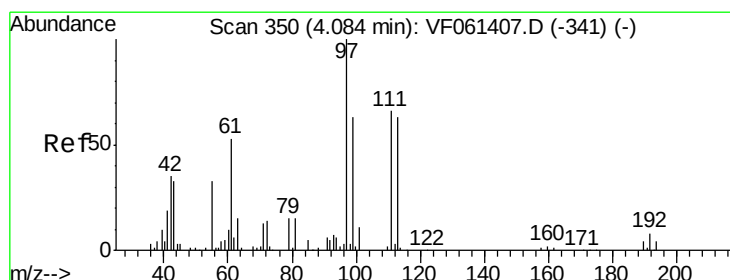
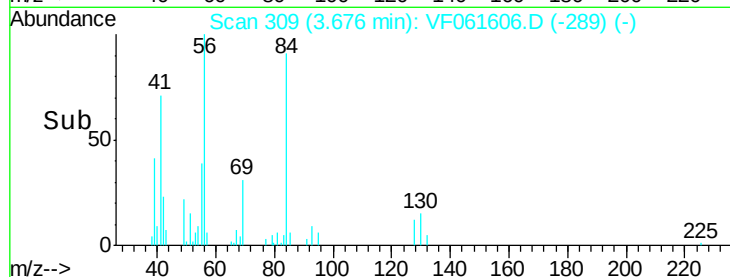
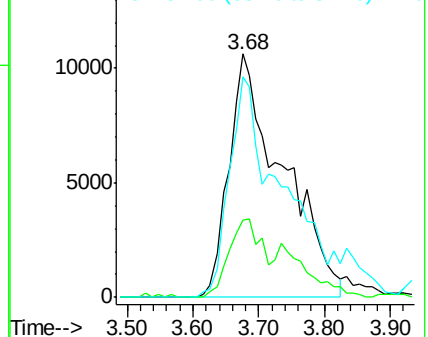
84 90.5 74.2 111.2



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0



#32

1,1,1-Trichloroethane

Concen: 19.559 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

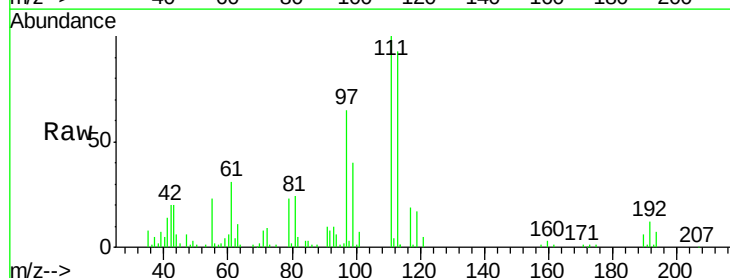
Tgt Ion: 97 Resp: 66375

Ion Ratio Lower Upper

97 100

99 61.2 50.1 75.1

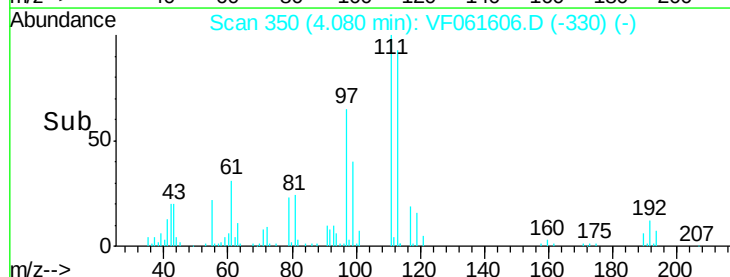
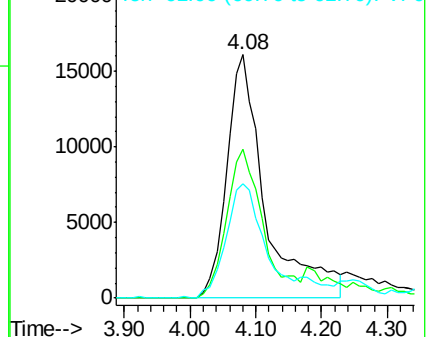
61 47.0 43.1 64.7

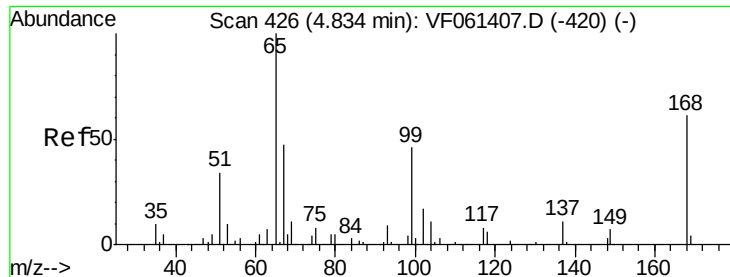


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

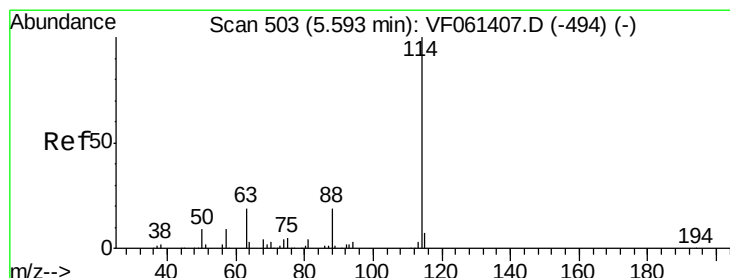
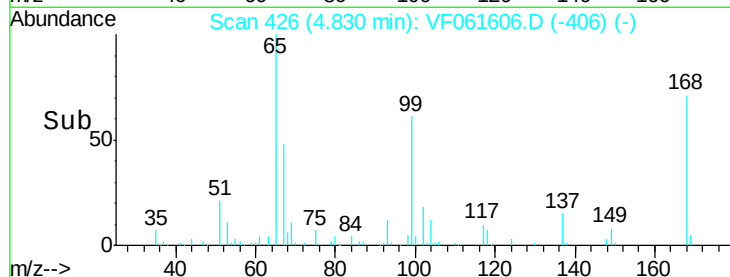
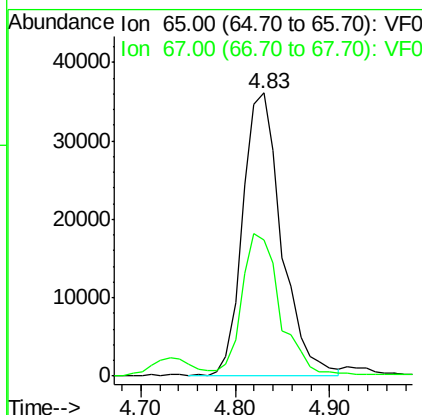
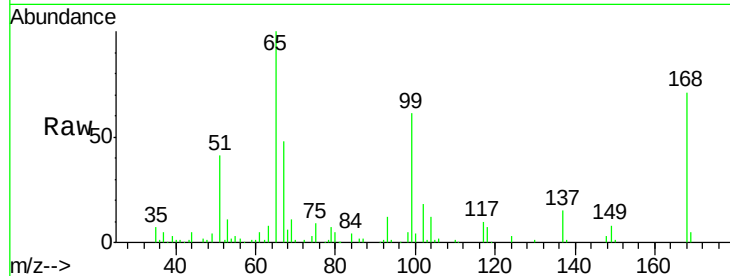




#33
 1,2-Dichloroethane-d4
 Concen: 48.475 ug/l
 RT: 4.83 min Scan# 426
 Delta R.T. -0.00 min
 Lab File: VF061606.D
 Acq: 12 Feb 2019 13:56

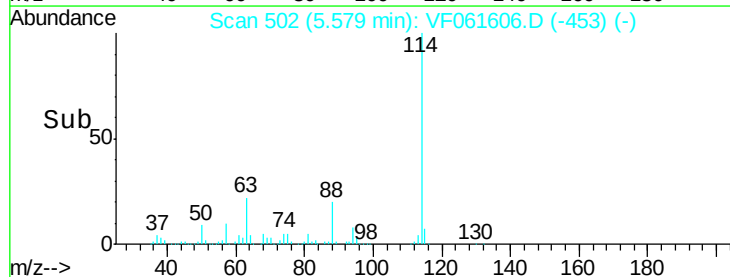
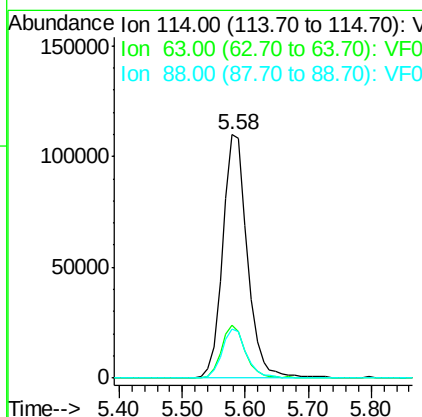
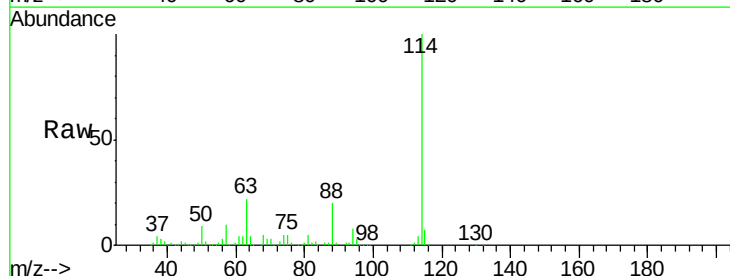
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0212SBSD01

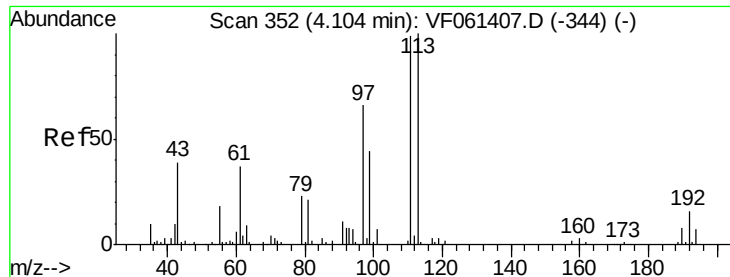
Tot Ion: 65 Resp: 103322
 Ion Ratio Lower Upper
 65 100
 67 48.1 0.0 99.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.58 min Scan# 502
 Delta R.T. -0.01 min
 Lab File: VF061606.D
 Acq: 12 Feb 2019 13:56

Tgt Ion: 114 Resp: 298335
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 39.0
 88 20.3 0.0 37.4





#35

Dibromofluoromethane

Concen: 46.786 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

Instrument :

MSVOA_F

ClientSampleId :

VF0212SBS01

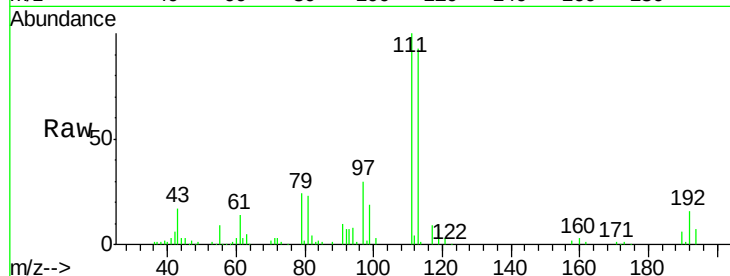
Tot Ion:113 Resp: 110140

Ion Ratio Lower Upper

113 100

111 107.6 79.4 119.0

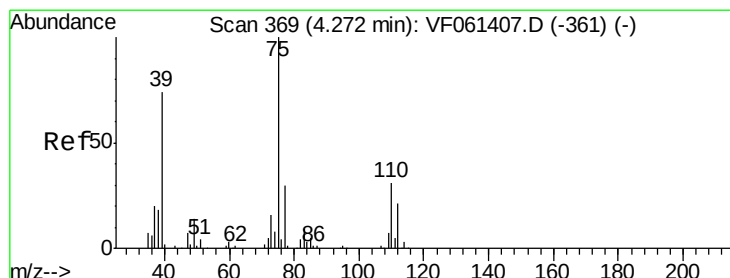
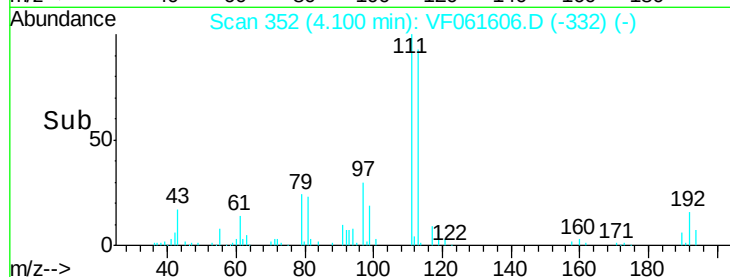
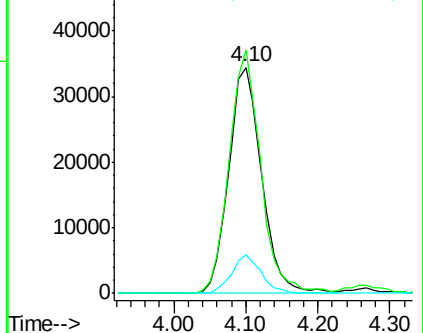
192 17.3 12.4 18.6



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: 18.734 ug/l

RT: 4.27 min Scan# 369

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

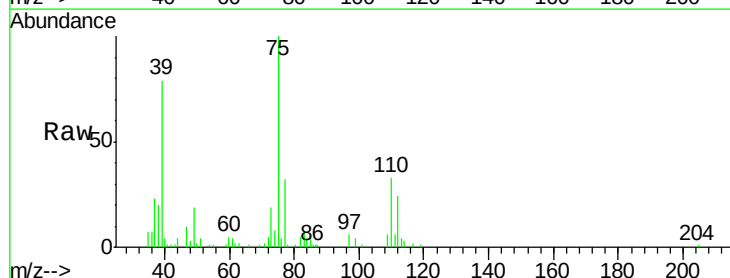
Tgt Ion: 75 Resp: 64801

Ion Ratio Lower Upper

75 100

110 33.4 15.8 47.3

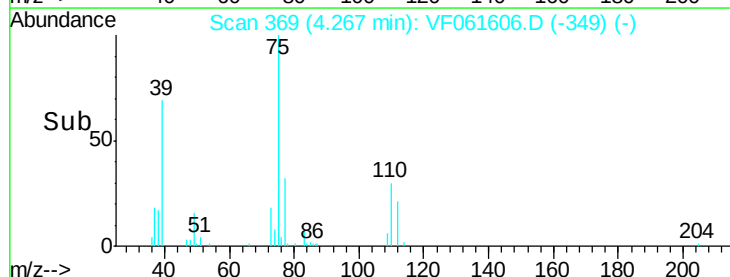
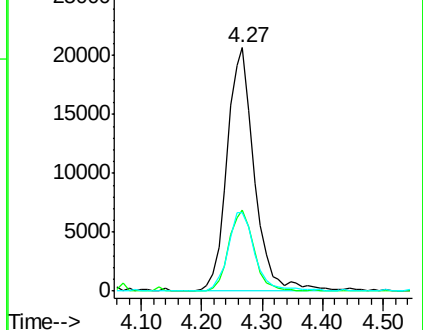
77 32.4 24.0 36.0

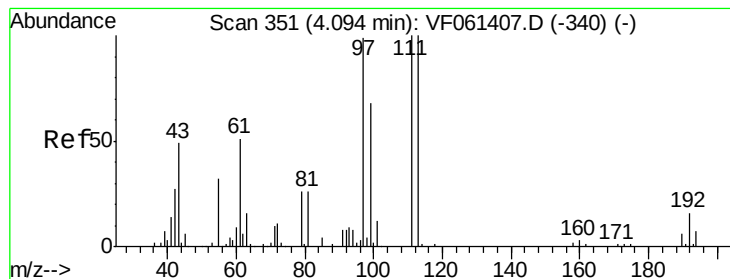


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0





#37

Ethyl Acetate

Concen: 20.157 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

Instrument :

MSVOA_F

ClientSampleId :

VF0212SBSD01

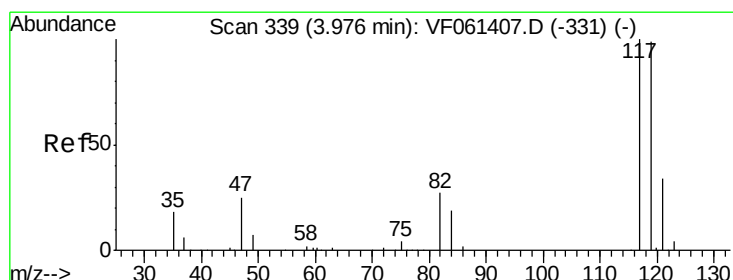
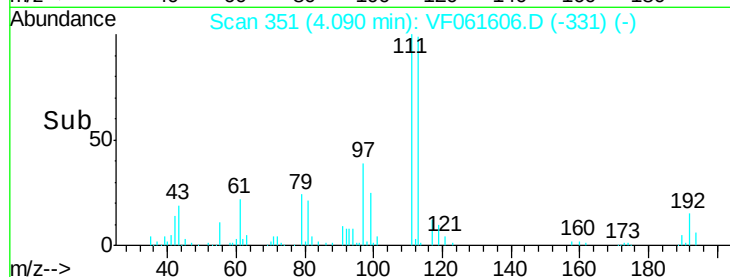
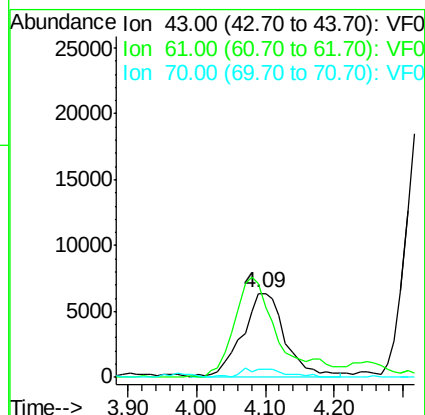
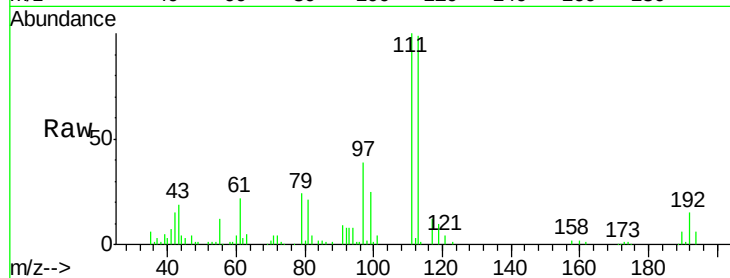
Tot Ion: 43 Resp: 27871

Ion Ratio Lower Upper

43 100

61 112.0 81.7 122.5

70 9.8 6.2 9.2#



#38

Carbon Tetrachloride

Concen: 17.778 ug/l

RT: 3.97 min Scan# 339

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

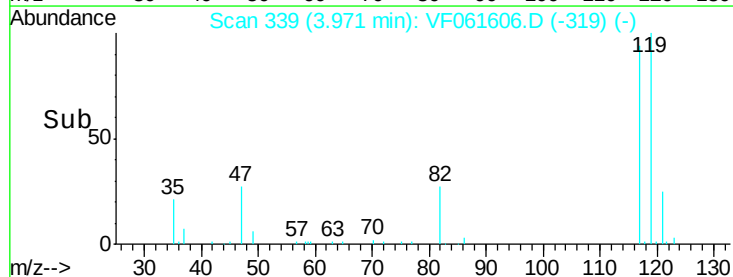
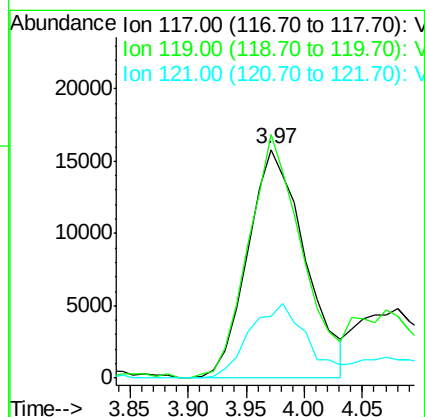
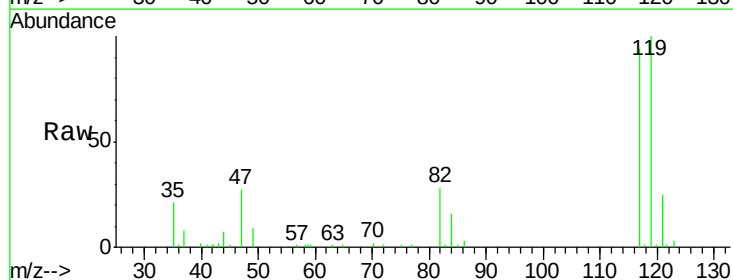
Tgt Ion: 117 Resp: 53761

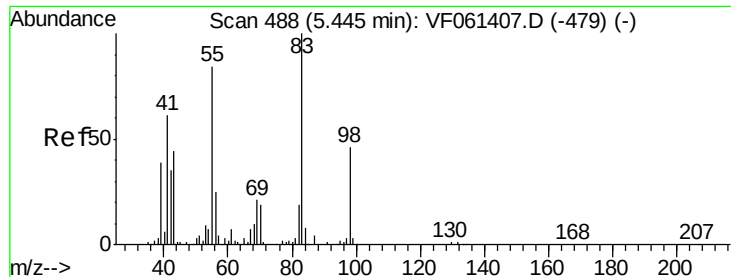
Ion Ratio Lower Upper

117 100

119 106.4 79.0 118.6

121 27.7 27.0 40.6

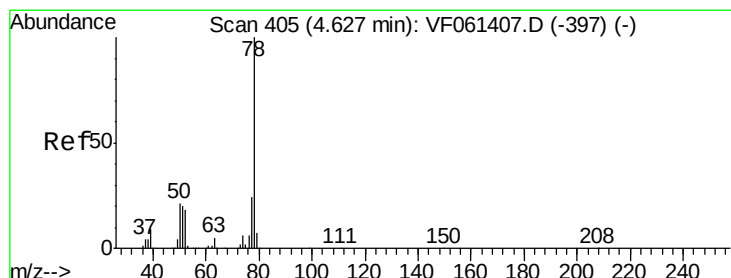
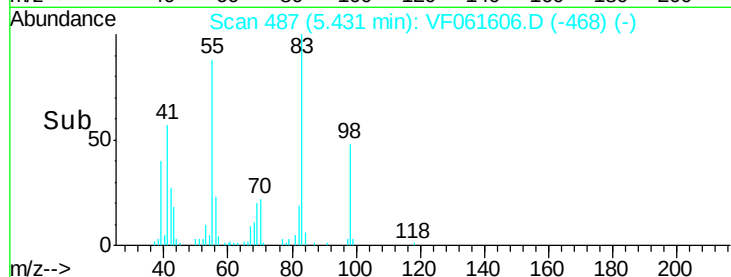
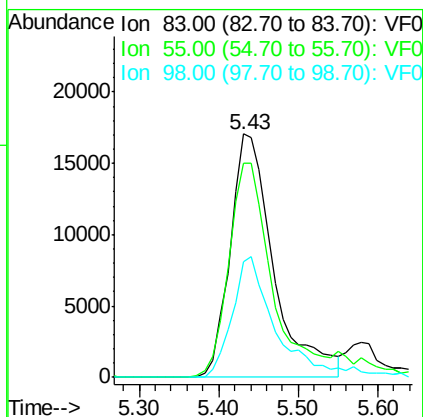
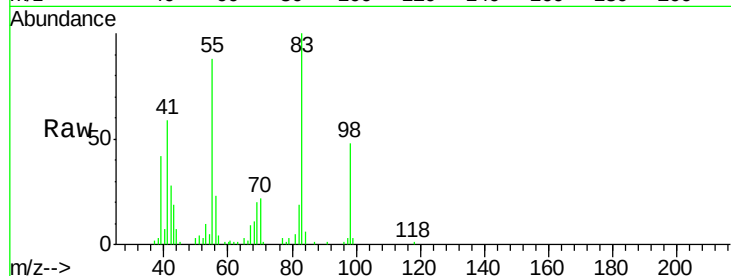




#39
Methylvlcyclohexane
Concen: 17.337 ug/l
RT: 5.43 min Scan# 487
Delta R.T. -0.01 min
Lab File: VF061606.D
Acq: 12 Feb 2019 13:56

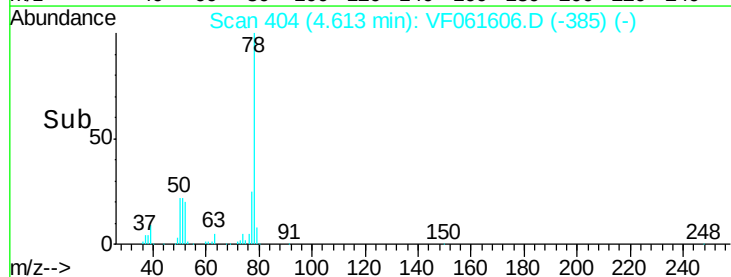
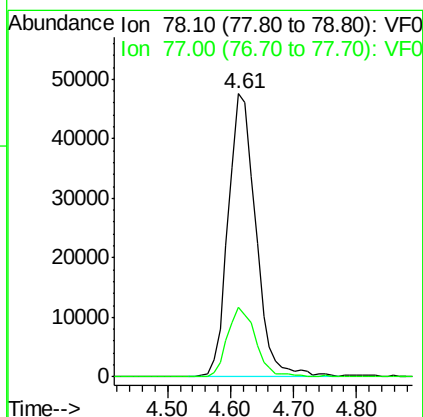
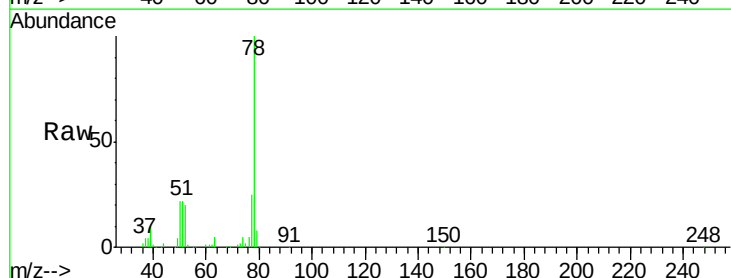
Instrument :
MSVOA_F
ClientSampleId :
VF0212SBS01

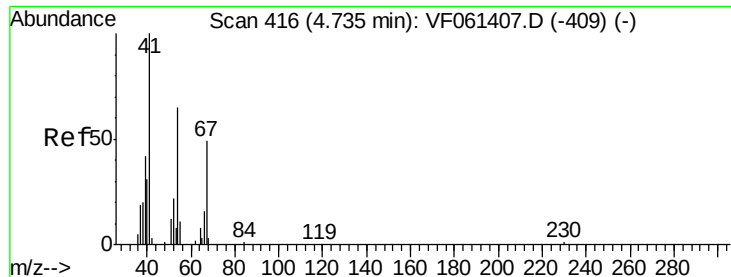
Tot Ion: 83 Resp: 64990
Ion Ratio Lower Upper
83 100
55 88.1 67.4 101.2
98 47.7 36.7 55.1



#40
Benzene
Concen: 18.775 ug/l
RT: 4.61 min Scan# 404
Delta R.T. -0.01 min
Lab File: VF061606.D
Acq: 12 Feb 2019 13:56

Tgt Ion: 78 Resp: 144507
Ion Ratio Lower Upper
78 100
77 24.5 19.0 28.6





#41

Methacrylonitrile

Concen: 19.307 ug/l

RT: 4.73 min Scan# 416

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

Instrument :

MSVOA_F

ClientSampleId :

VF0212SBSD01

Tot Ion: 41 Resp: 14205

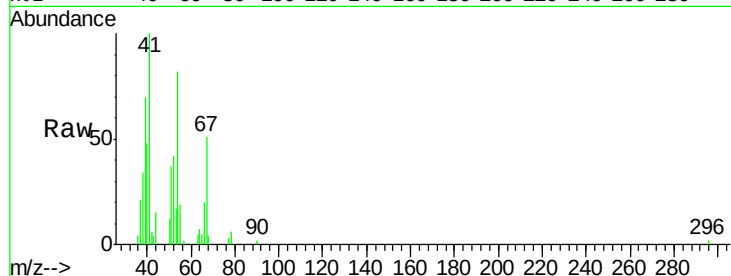
Ion Ratio Lower Upper

41 100

39 69.9 43.1 64.7#

67 51.4 38.8 58.2

52 42.1 33.2 49.8

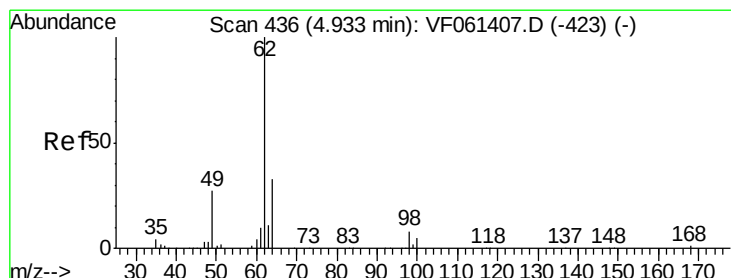
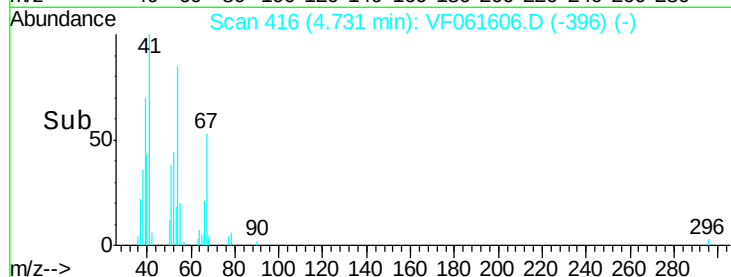
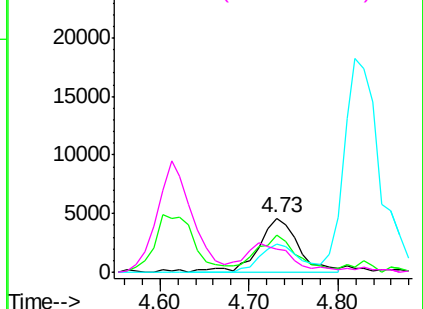


Abundance Ion 41.00 (40.70 to 41.70): VF0

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: 19.640 ug/l

RT: 4.93 min Scan# 436

Delta R.T. -0.00 min

Lab File: VF061606.D

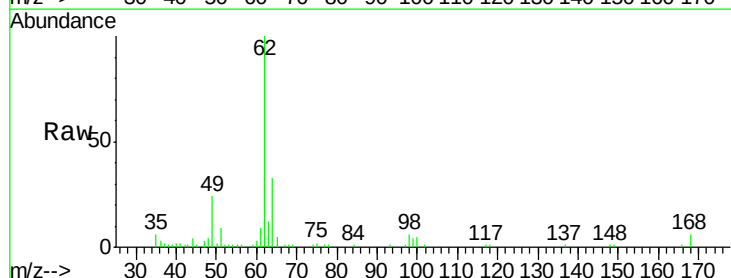
Acq: 12 Feb 2019 13:56

Tgt Ion: 62 Resp: 53868

Ion Ratio Lower Upper

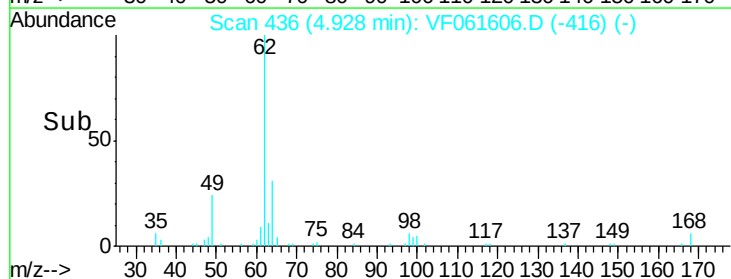
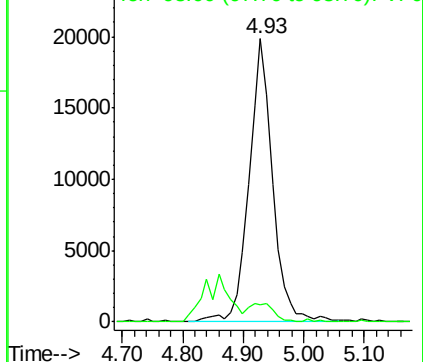
62 100

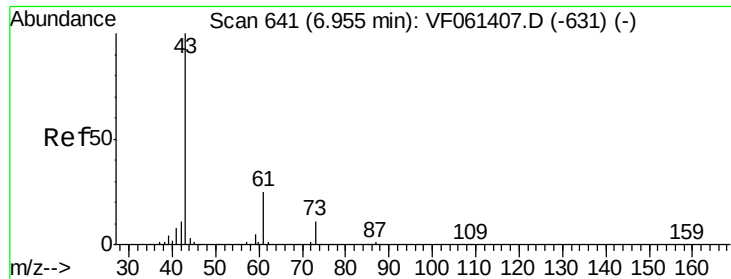
98 6.1 0.0 17.0



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#43

Isopropyl Acetate

Concen: 18.866 ug/l

RT: 6.95 min Scan# 641

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

Instrument :

MSVOA_F

ClientSampleId :

VF0212SBS01

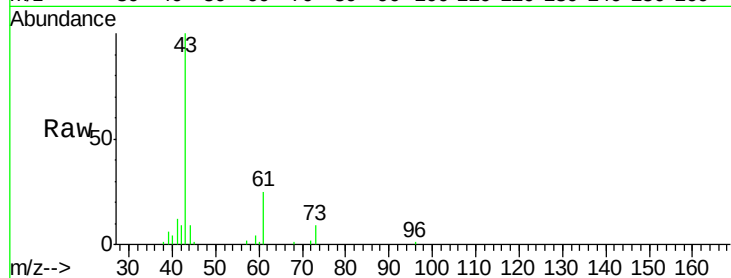
Tot Ion: 43 Resp: 32739

Ion Ratio Lower Upper

43 100

61 25.3 20.3 30.5

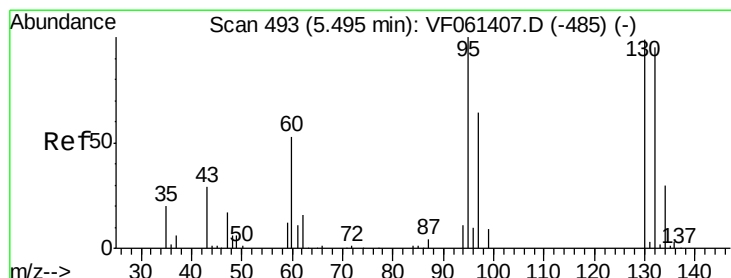
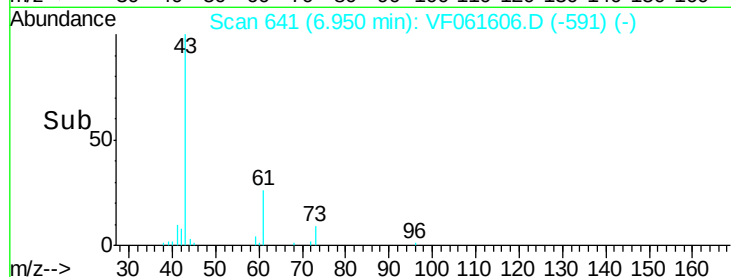
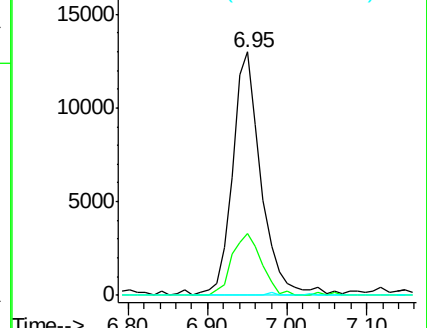
87 0.0 0.5 0.7#



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: 19.889 ug/l

RT: 5.49 min Scan# 493

Delta R.T. -0.00 min

Lab File: VF061606.D

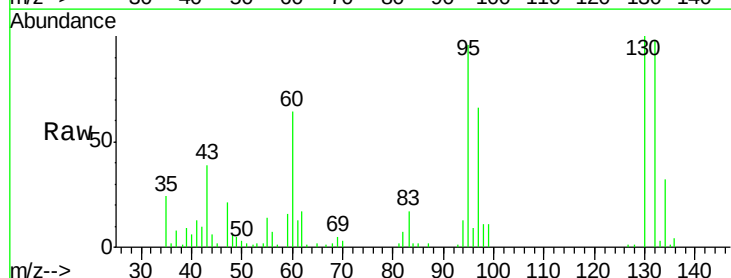
Acq: 12 Feb 2019 13:56

Tgt Ion: 130 Resp: 46960

Ion Ratio Lower Upper

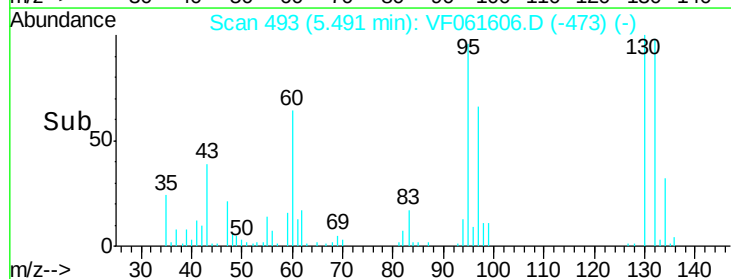
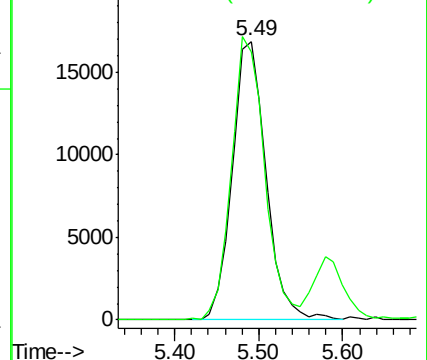
130 100

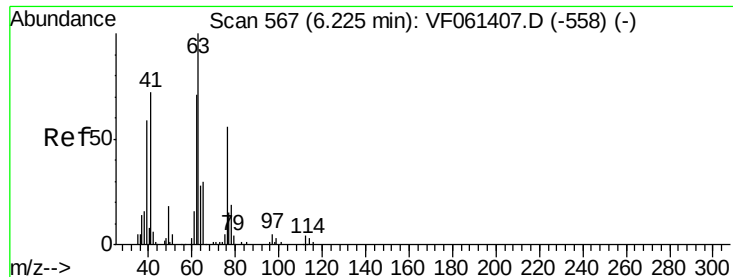
95 96.3 0.0 202.8



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 19.790 ug/l

RT: 6.22 min Scan# 567

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

Instrument :

MSVOA_F

ClientSampleId :

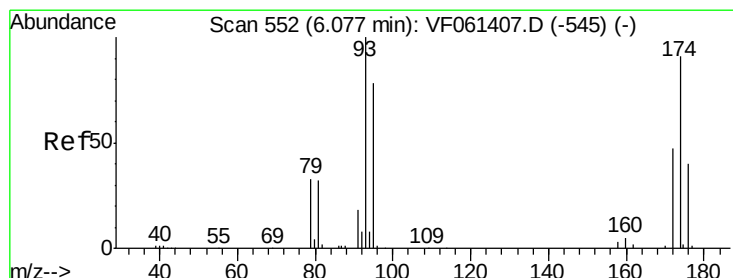
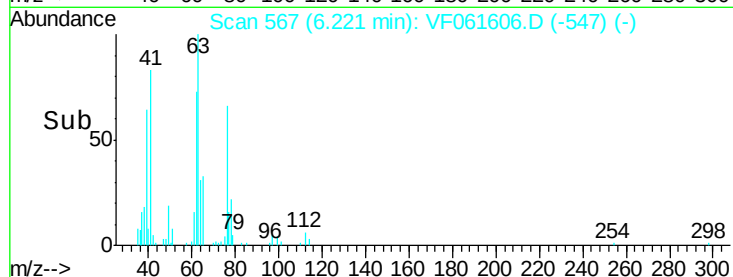
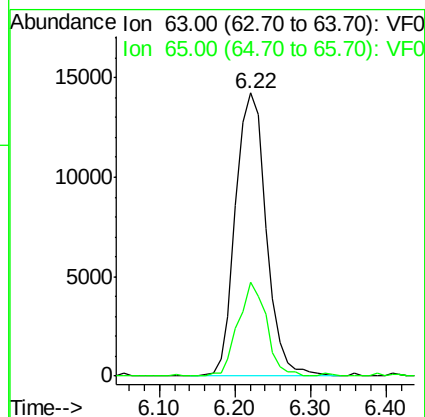
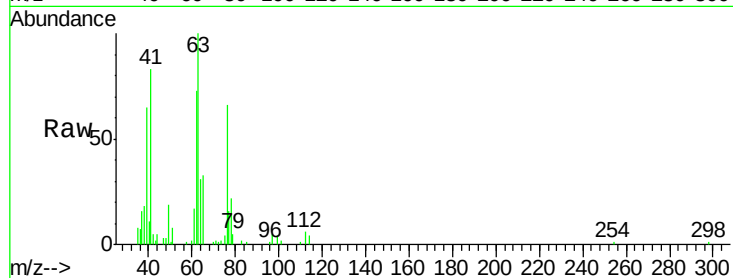
VF0212SBSD01

Tot Ion: 63 Resp: 39978

Ion Ratio Lower Upper

63 100

65 33.4 24.4 36.6



#46

Dibromomethane

Concen: 18.187 ug/l

RT: 6.07 min Scan# 552

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

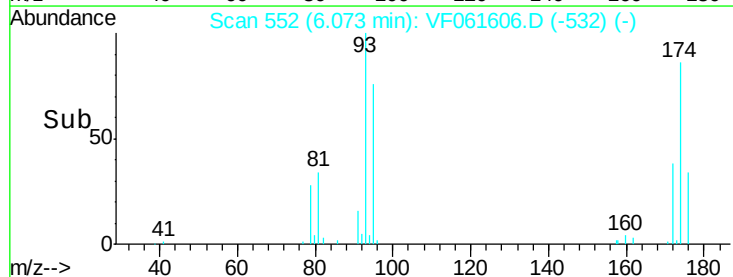
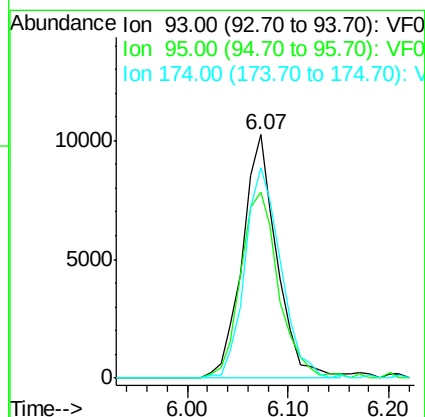
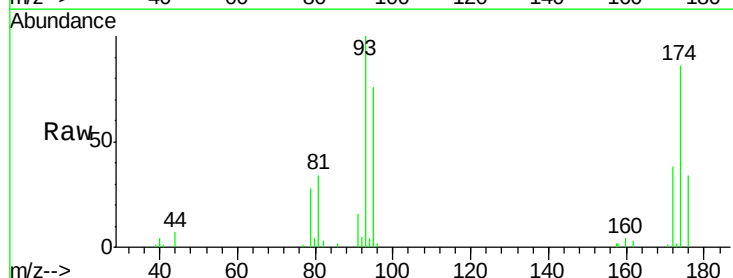
Tgt Ion: 93 Resp: 24429

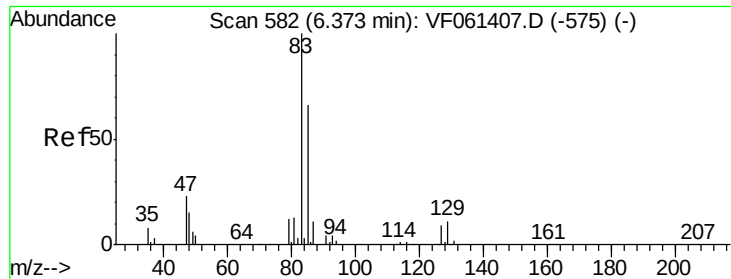
Ion Ratio Lower Upper

93 100

95 76.2 62.1 93.1

174 86.5 74.6 111.8





#47

Bromodichloromethane

Concen: 20.121 ug/l

RT: 6.37 min Scan# 582

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

Instrument :

MSVOA_F

ClientSampleId :

VF0212SBSD01

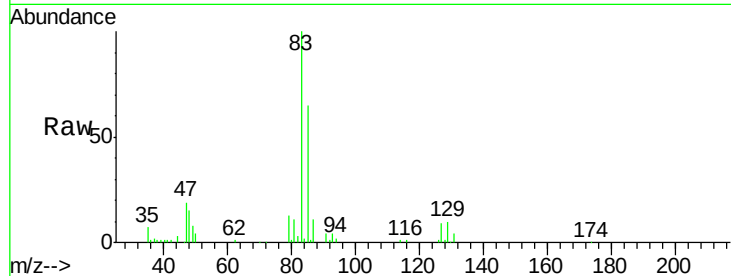
Tot Ion: 83 Resp: 66870

Ion Ratio Lower Upper

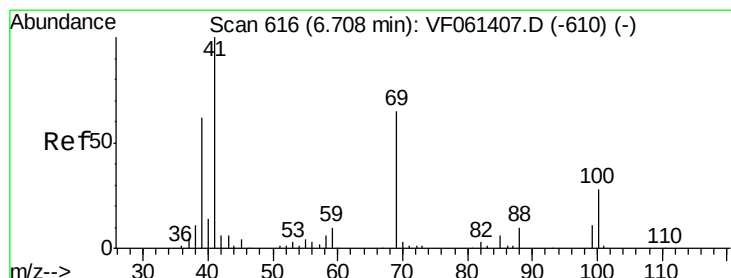
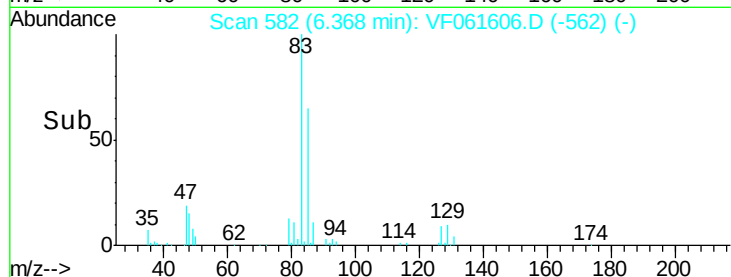
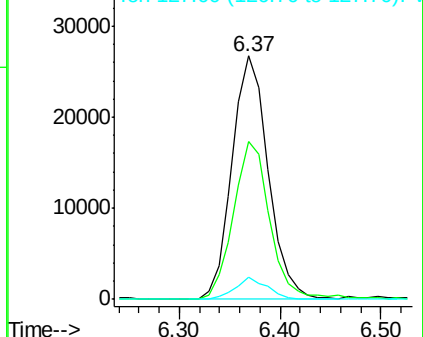
83 100

85 65.0 53.0 79.4

127 9.0 6.9 10.3



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: 16.356 ug/l

RT: 6.70 min Scan# 616

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

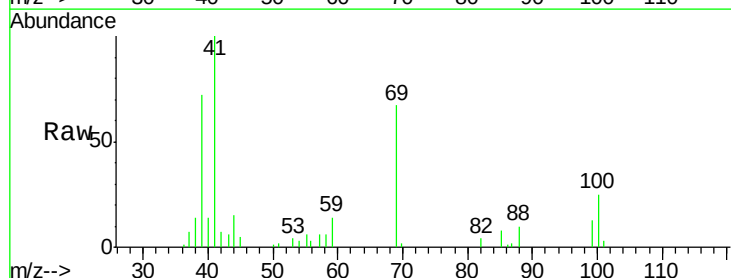
Tgt Ion: 41 Resp: 19060

Ion Ratio Lower Upper

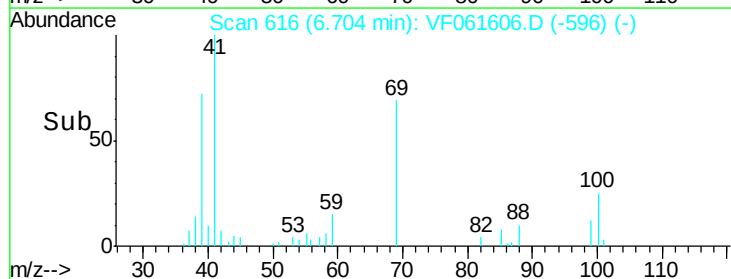
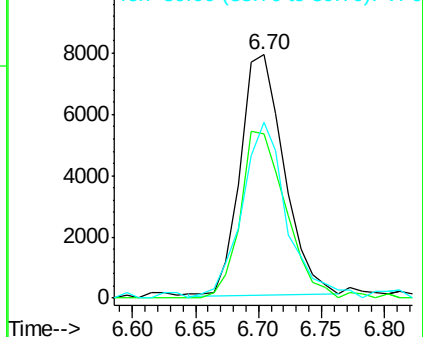
41 100

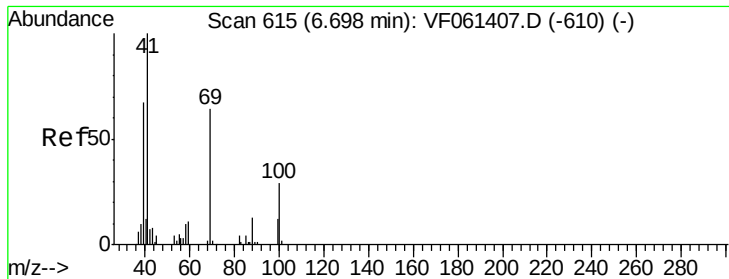
69 67.5 51.7 77.5

39 72.1 49.2 73.8



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: 317.765 ug/l

RT: 6.68 min Scan# 614

Delta R.T. -0.01 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

Instrument :

MSVOA_F

ClientSampleId :

VF0212SBSD01

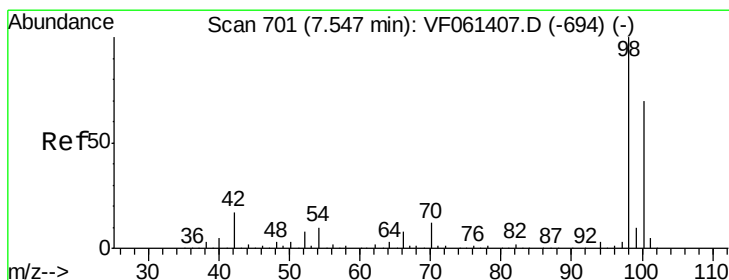
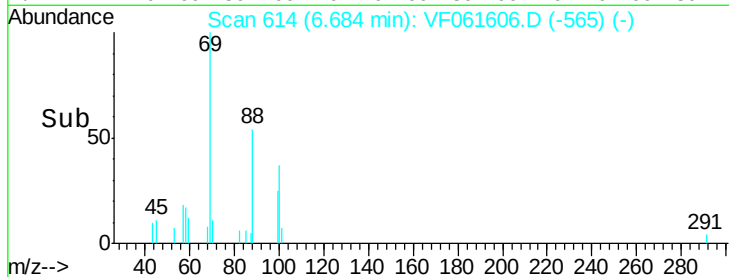
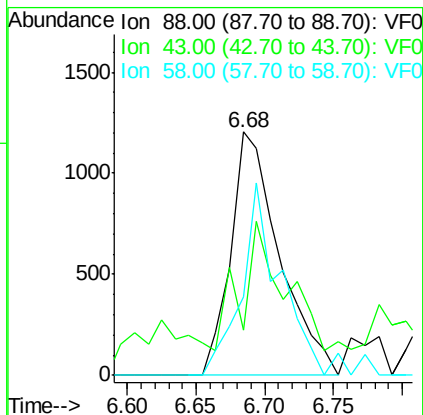
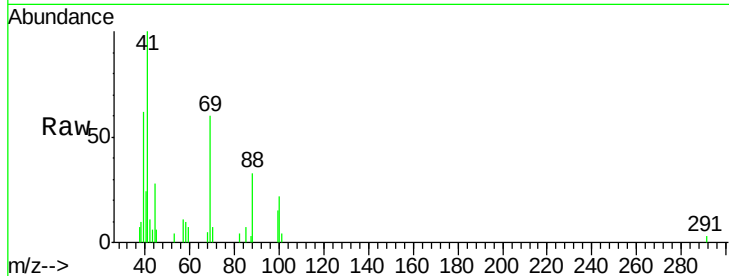
Tot Ion: 88 Resp: 2970

Ion Ratio Lower Upper

88 100

43 18.5 55.5 83.3#

58 32.1 59.9 89.9#



#50

Toluene-d8

Concen: 45.981 ug/l

RT: 7.54 min Scan# 701

Delta R.T. -0.00 min

Lab File: VF061606.D

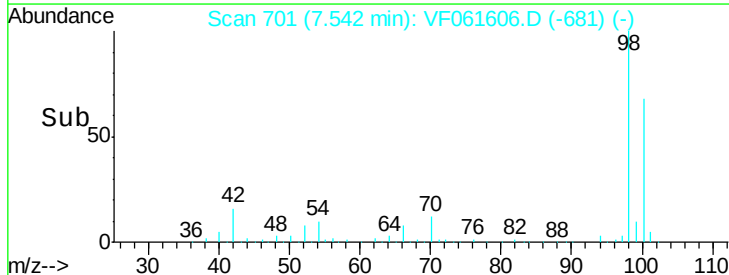
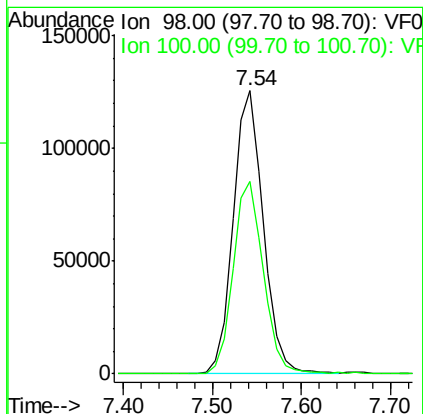
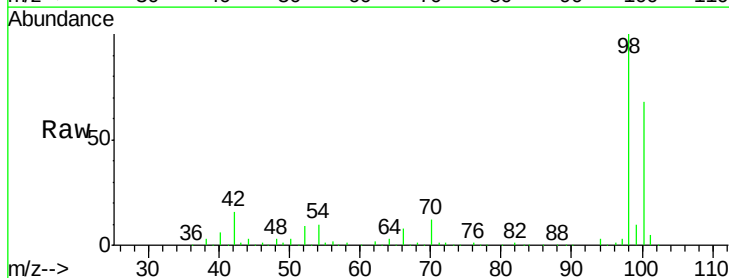
Acq: 12 Feb 2019 13:56

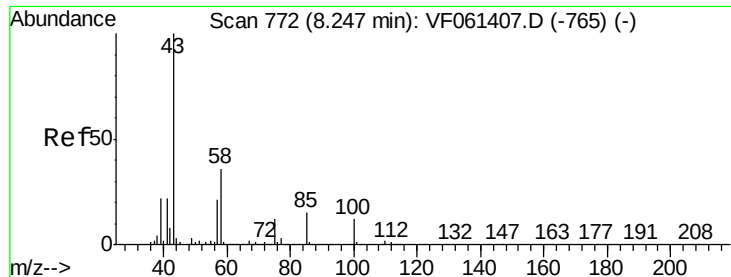
Tgt Ion: 98 Resp: 296572

Ion Ratio Lower Upper

98 100

100 67.9 55.6 83.4





#51

4-Methyl-2-Pentanone

Concen: 97.327 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

Instrument :

MSVOA_F

ClientSampleId :

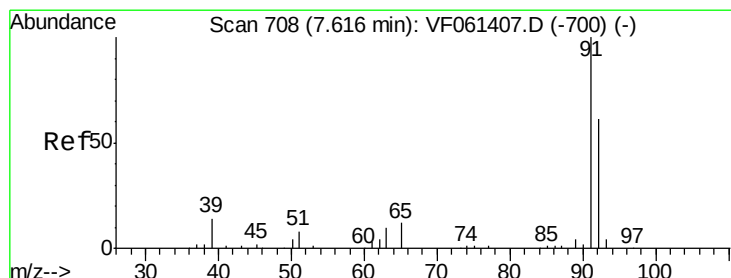
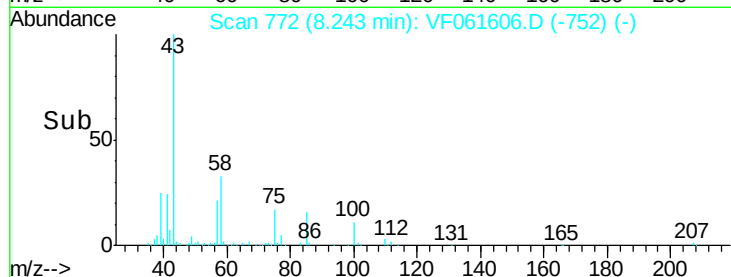
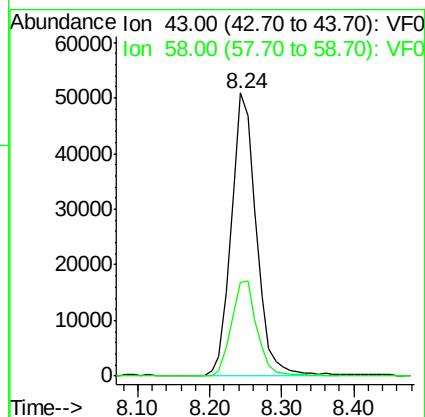
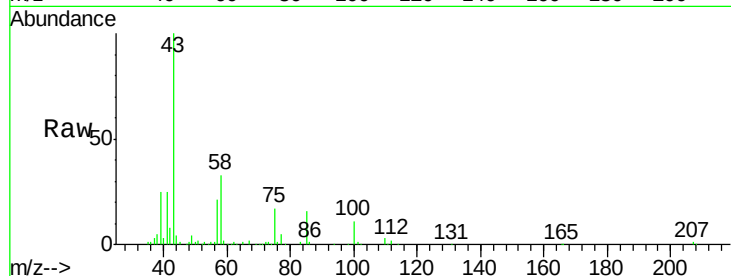
VF0212SBSD01

Tot Ion: 43 Resp: 124167

Ion Ratio Lower Upper

43 100

58 33.3 28.8 43.2



#52

Toluene

Concen: 18.670 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.00 min

Lab File: VF061606.D

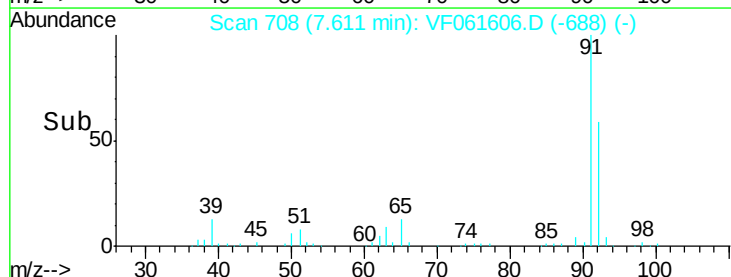
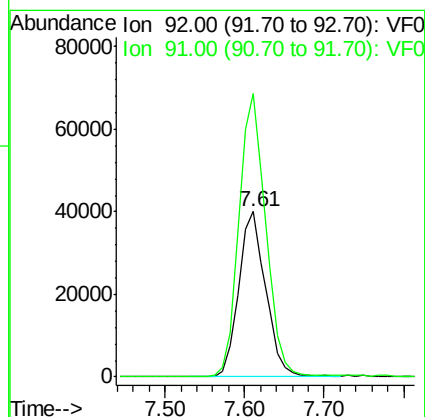
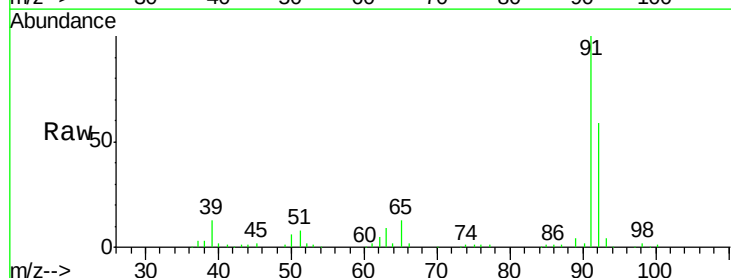
Acq: 12 Feb 2019 13:56

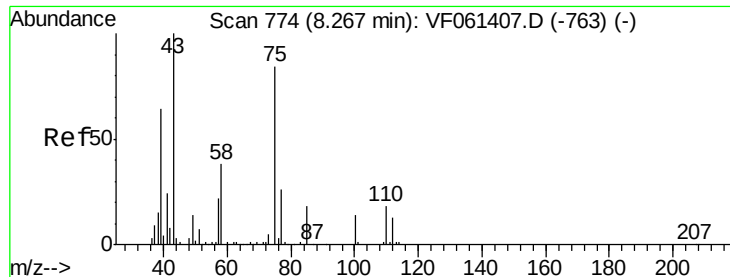
Tgt Ion: 92 Resp: 94635

Ion Ratio Lower Upper

92 100

91 170.9 131.2 196.8

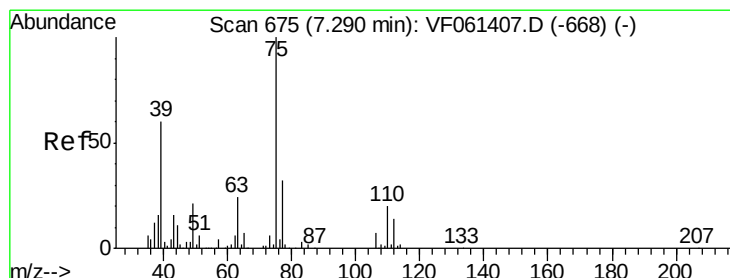
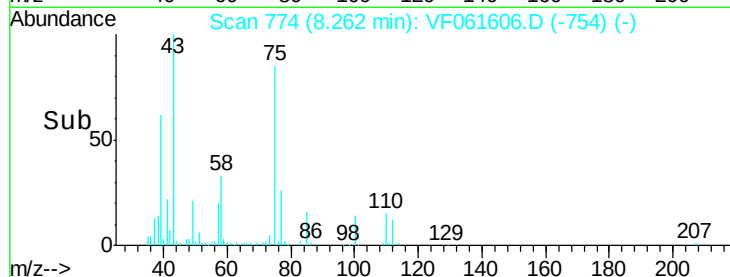
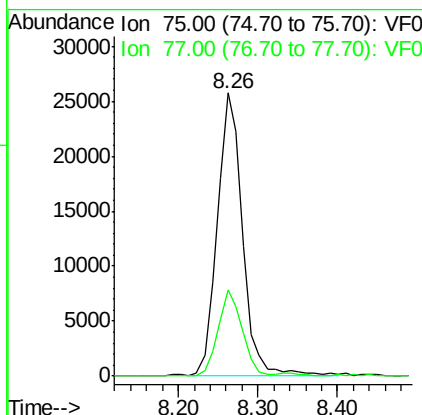
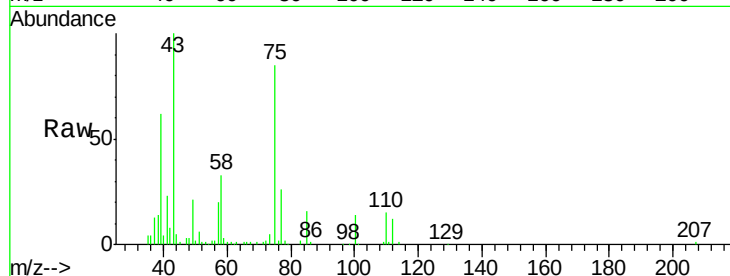




#53
t-1,3-Dichloropropene
Concen: 21.900 ug/l
RT: 8.26 min Scan# 774
Delta R.T. -0.00 min
Lab File: VF061606.D
Acq: 12 Feb 2019 13:56

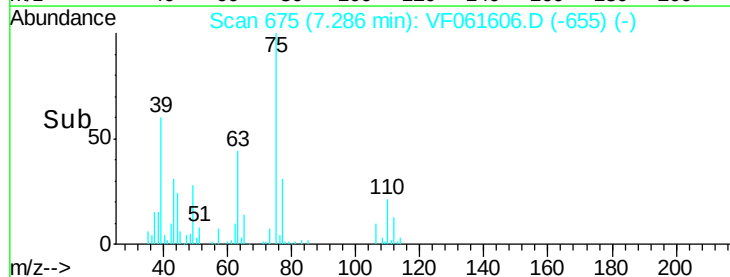
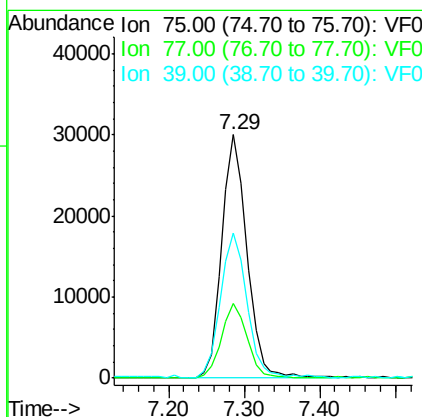
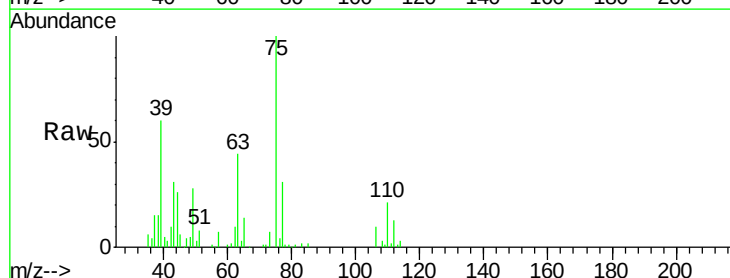
Instrument :
MSVOA_F
ClientSampleId :
VF0212SBSD01

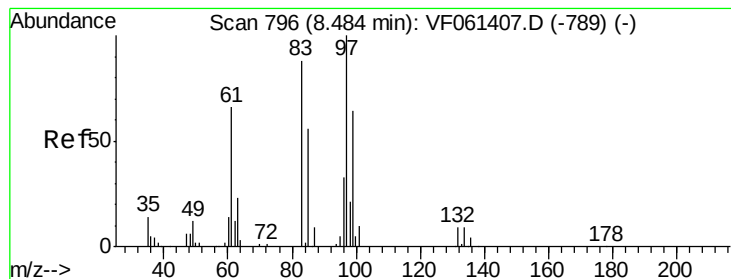
Tot Ion: 75 Resp: 57794
Ion Ratio Lower Upper
75 100
77 30.3 24.4 36.6



#54
cis-1,3-Dichloropropene
Concen: 21.205 ug/l
RT: 7.29 min Scan# 675
Delta R.T. -0.00 min
Lab File: VF061606.D
Acq: 12 Feb 2019 13:56

Tgt Ion: 75 Resp: 69947
Ion Ratio Lower Upper
75 100
77 30.8 25.4 38.0
39 59.8 47.8 71.8





#55

1,1,2-Trichloroethane

Concen: 18.662 ug/l

RT: 8.48 min Scan# 796

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

Instrument :

MSVOA_F

ClientSampleId :

VF0212SBSD01

Tot Ion: 97 Resp: 26861

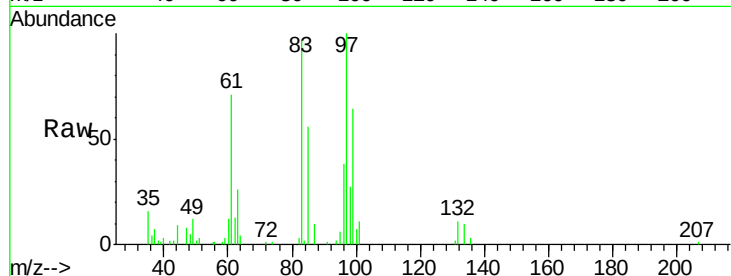
Ion Ratio Lower Upper

97 100

83 96.7 70.4 105.6

85 55.8 44.7 67.1

99 64.5 50.8 76.2

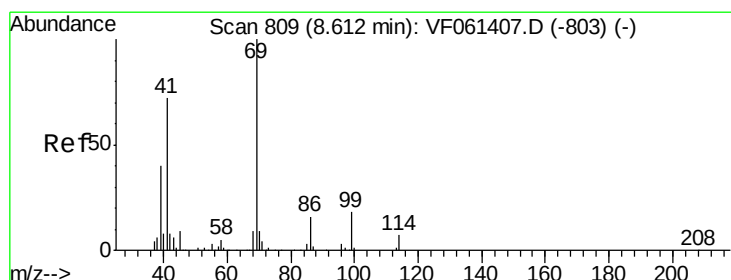
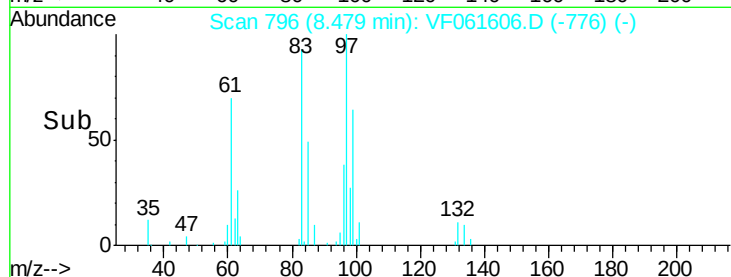
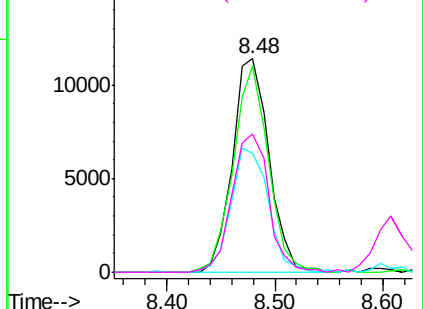


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 19.109 ug/l

RT: 8.61 min Scan# 809

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

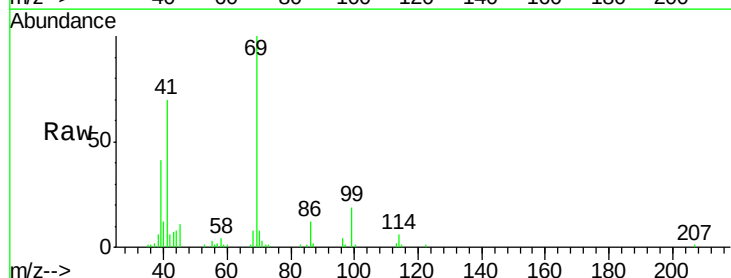
Tgt Ion: 69 Resp: 32000

Ion Ratio Lower Upper

69 100

41 69.9 57.5 86.3

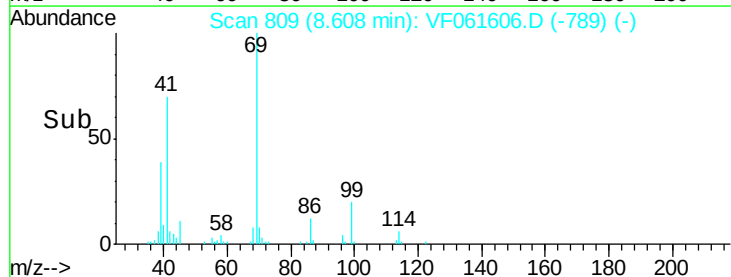
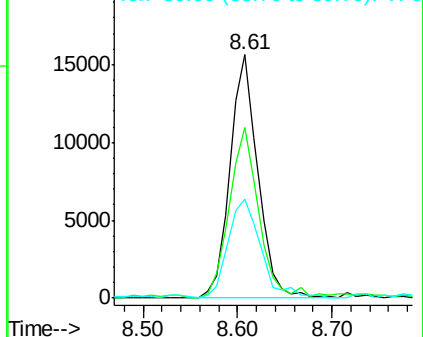
39 40.5 32.0 48.0

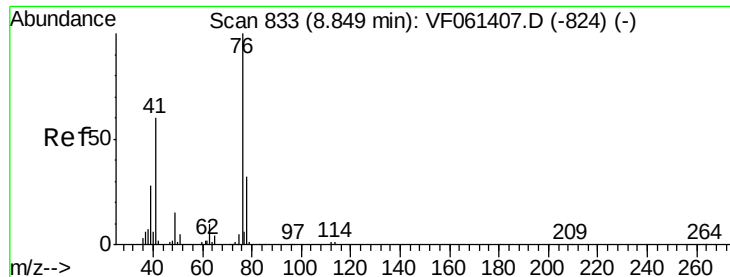


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 18.288 ug/l

RT: 8.84 min Scan# 833

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

Instrument :

MSVOA_F

ClientSampleId :

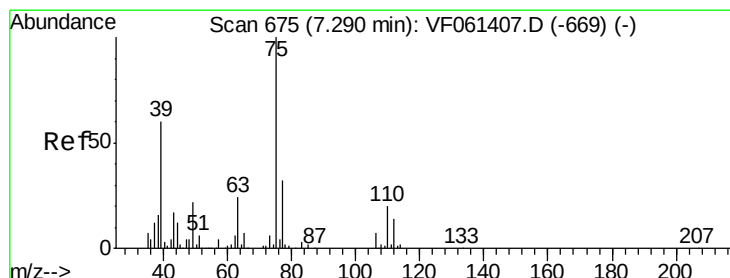
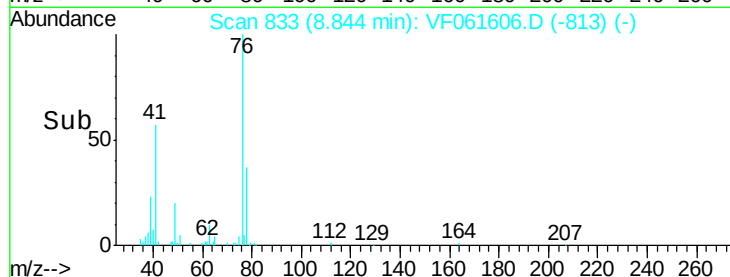
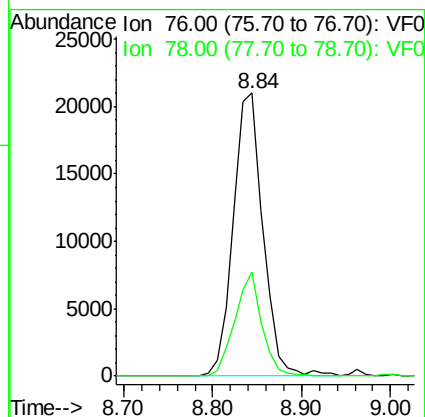
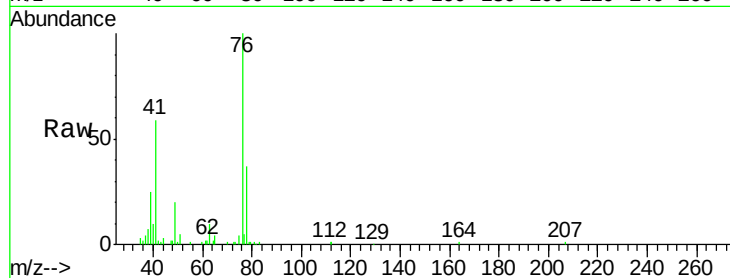
VF0212SBS01

Tot Ion: 76 Resp: 49340

Ion Ratio Lower Upper

76 100

78 36.8 25.3 37.9



#58

2-Chloroethyl Vinyl ether

Concen: 167.380 ug/l

RT: 7.29 min Scan# 675

Delta R.T. -0.00 min

Lab File: VF061606.D

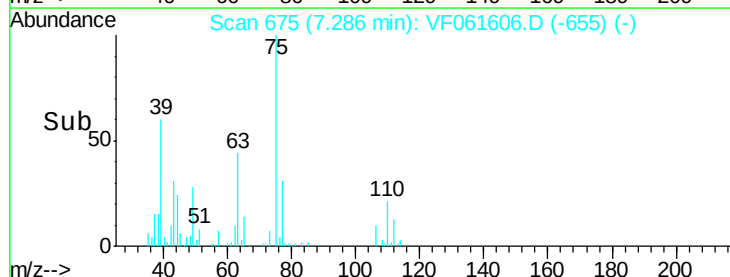
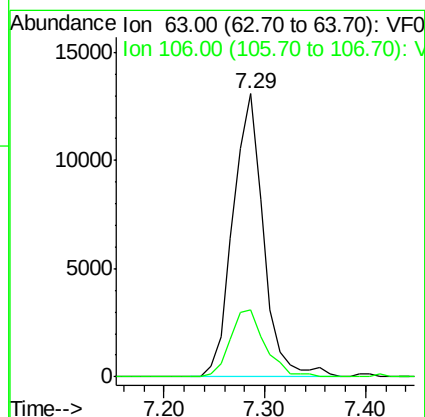
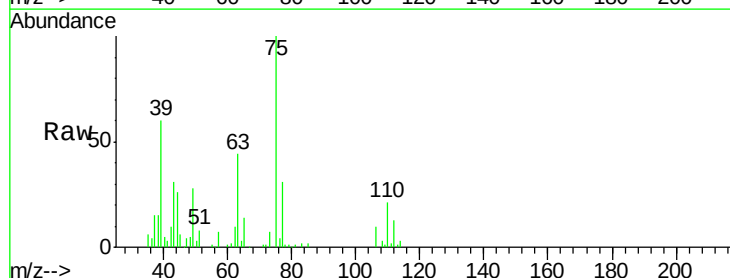
Acq: 12 Feb 2019 13:56

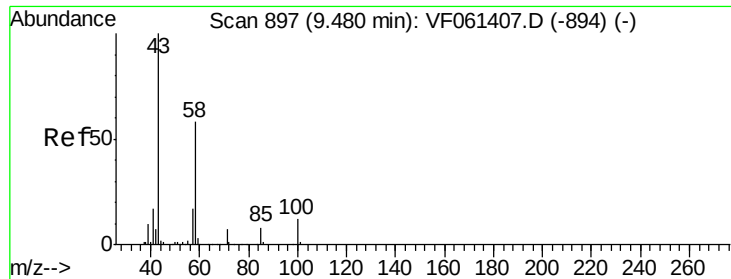
Tgt Ion: 63 Resp: 27598

Ion Ratio Lower Upper

63 100

106 23.5 21.9 32.9

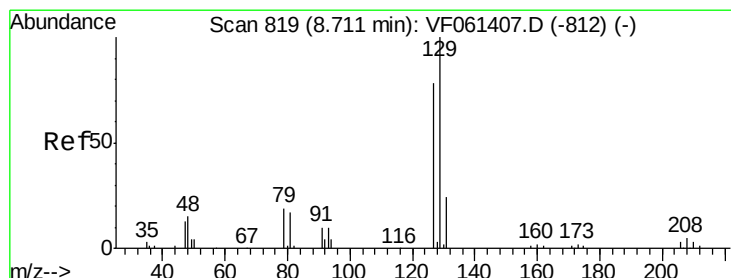
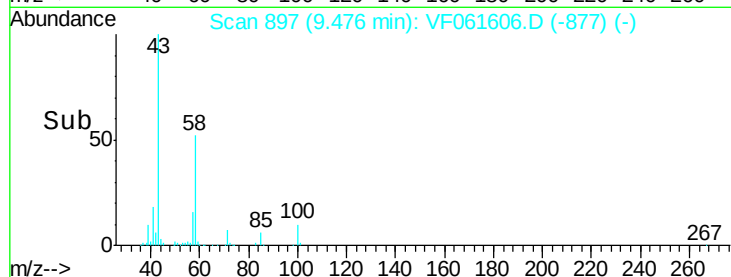
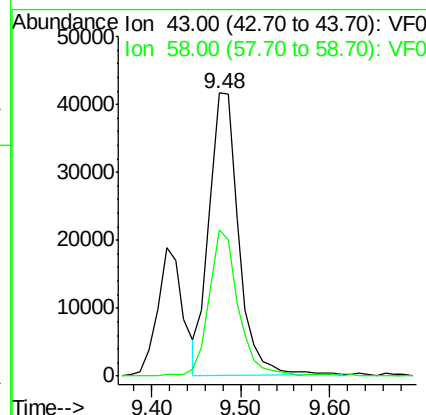
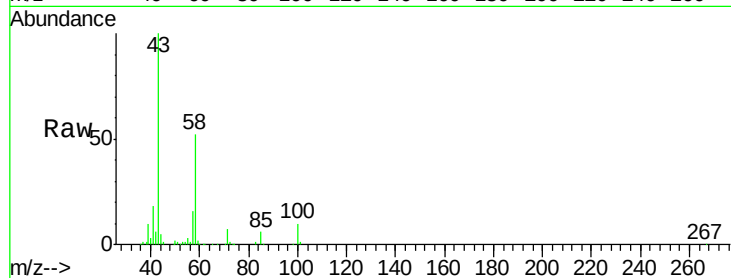




#59
2-Hexanone
Concen: 107.768 ug/l
RT: 9.48 min Scan# 897
Delta R.T. -0.00 min
Lab File: VF061606.D
Acq: 12 Feb 2019 13:56

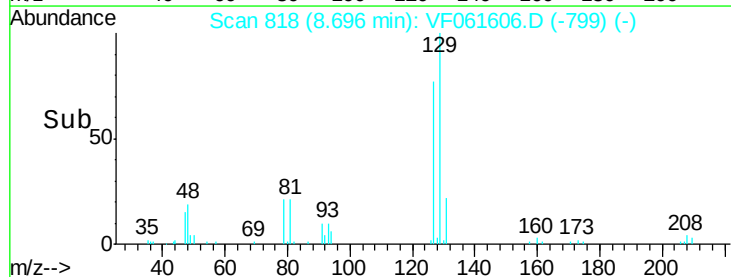
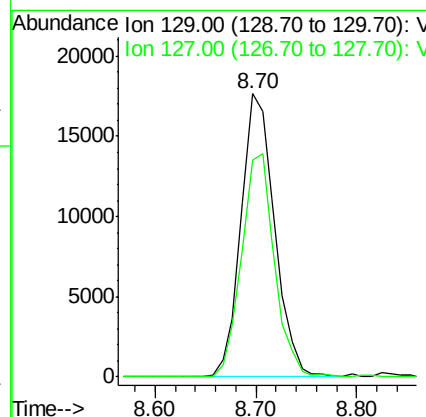
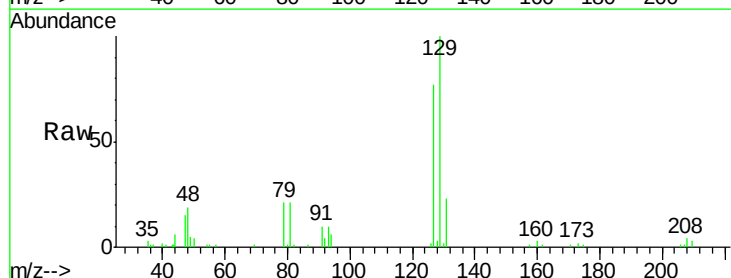
Instrument :
MSVOA_F
ClientSampleId :
VF0212SBSD01

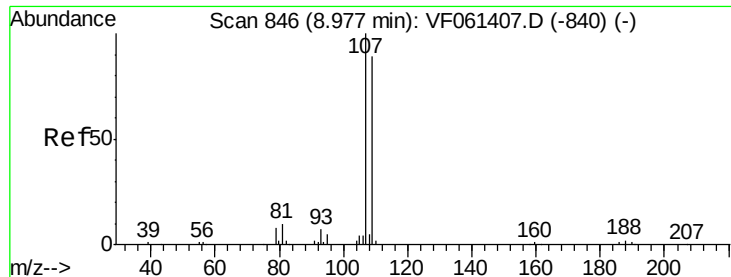
Tot Ion: 43 Resp: 95873
Ion Ratio Lower Upper
43 100
58 51.9 25.9 77.6



#60
Dibromochloromethane
Concen: 19.481 ug/l
RT: 8.70 min Scan# 818
Delta R.T. -0.01 min
Lab File: VF061606.D
Acq: 12 Feb 2019 13:56

Tgt Ion: 129 Resp: 40994
Ion Ratio Lower Upper
129 100
127 76.5 39.1 117.2





#61

1,2-Dibromoethane

Concen: 19.481 ug/l

RT: 8.97 min Scan# 846

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

Instrument :

MSVOA_F

ClientSampleId :

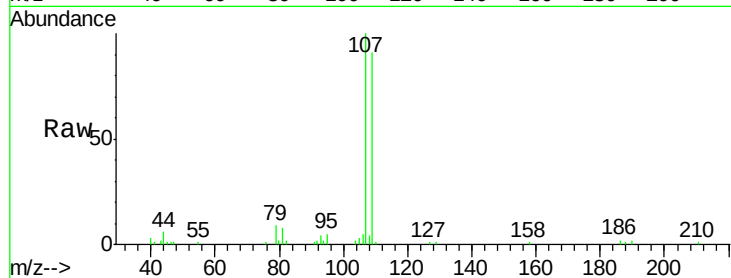
VF0212SBSD01

Tot Ion:107 Resp: 32101

Ion Ratio Lower Upper

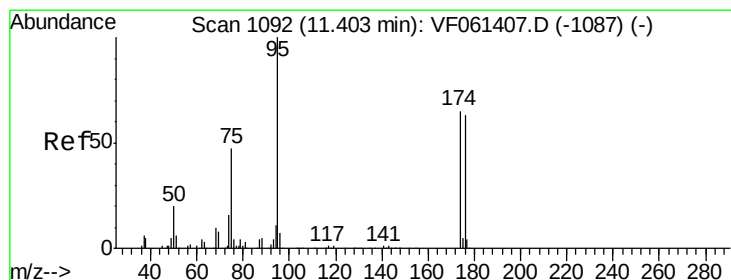
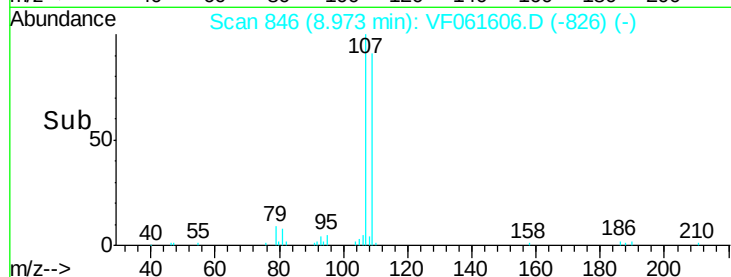
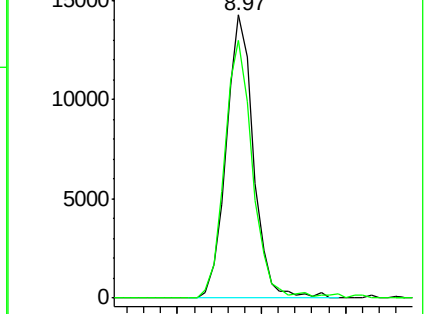
107 100

109 91.3 70.8 106.2



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 47.855 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

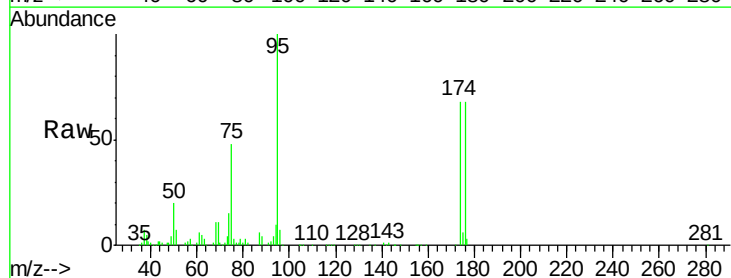
Tgt Ion: 95 Resp: 144213

Ion Ratio Lower Upper

95 100

174 67.9 0.0 130.4

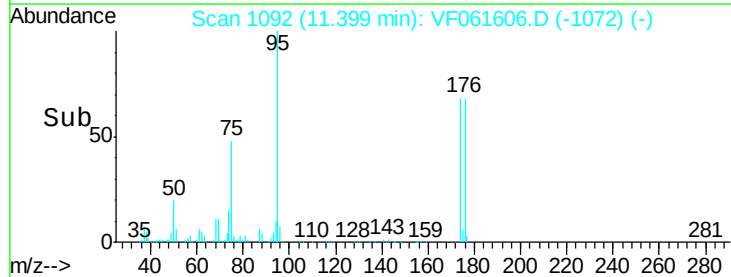
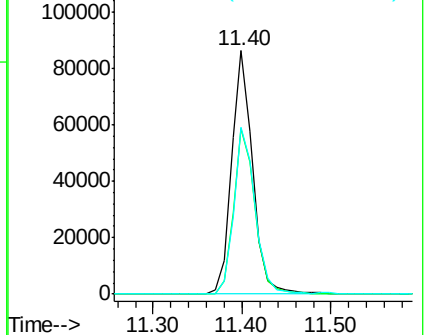
176 68.3 0.0 126.2

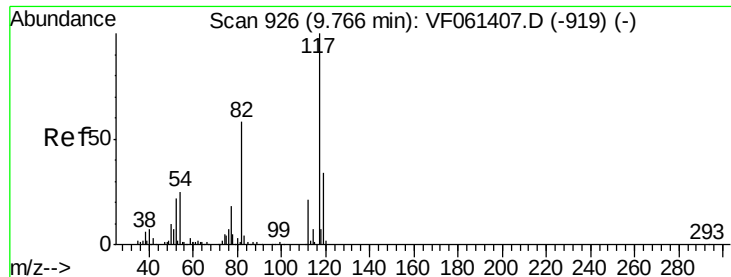


Abundance Ion 95.00 (94.70 to 95.70): VF0

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. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

Instrument :

MSVOA_F

ClientSampleId :

VF0212SBSD01

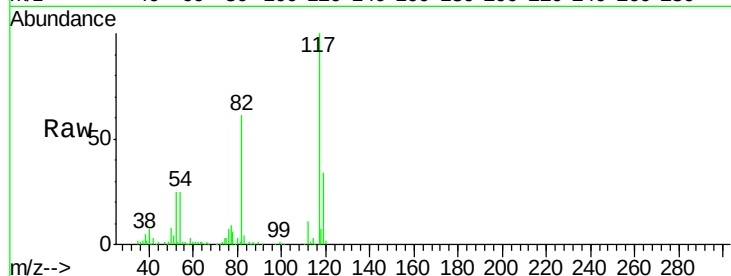
Tot Ion:117 Resp: 272924

Ion Ratio Lower Upper

117 100

82 60.7 46.4 69.6

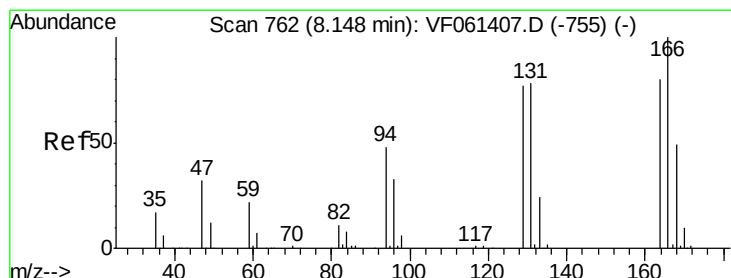
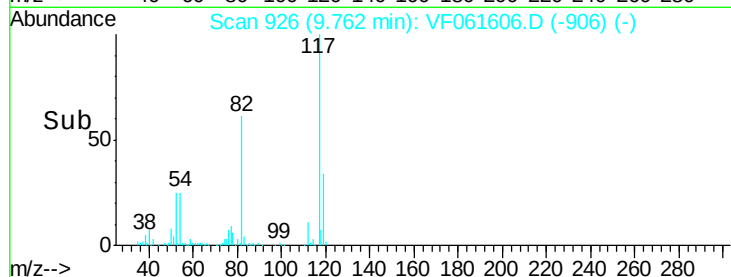
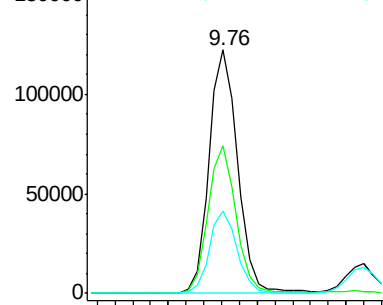
119 33.9 27.2 40.8



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: 20.210 ug/l

RT: 8.14 min Scan# 762

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

Tgt Ion:164 Resp: 41479

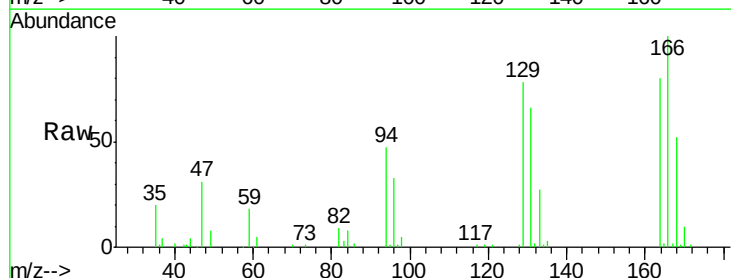
Ion Ratio Lower Upper

164 100

166 125.6 99.6 149.4

129 97.3 76.4 114.6

131 83.1 77.9 116.9

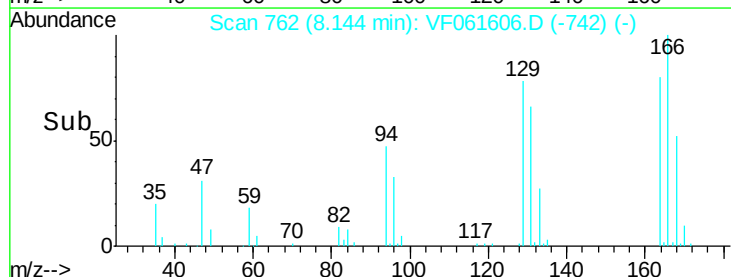
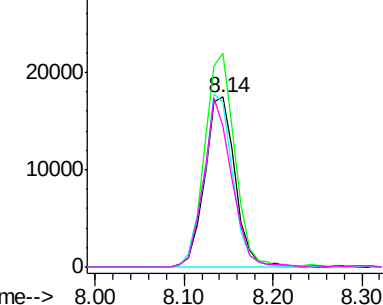


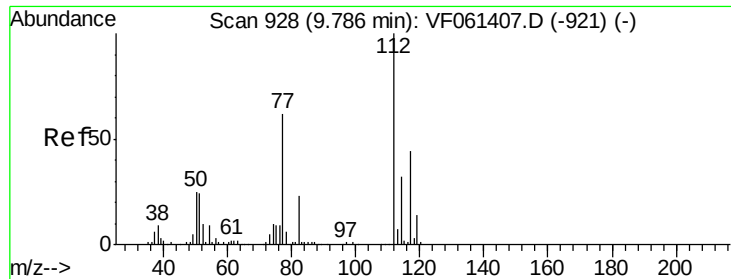
Abundance Ion 163.85 (163.55 to 164.55): V

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

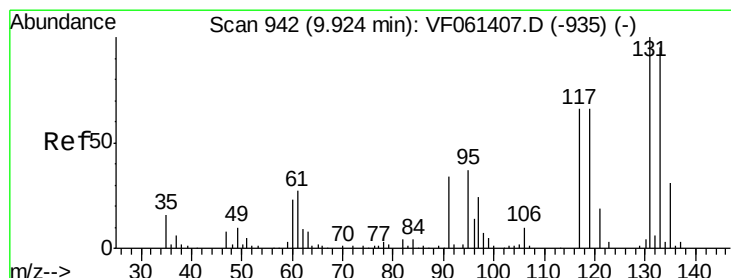
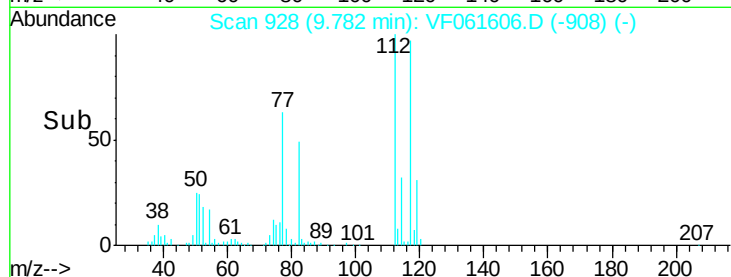
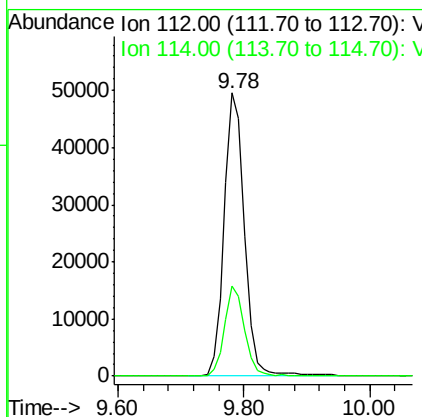
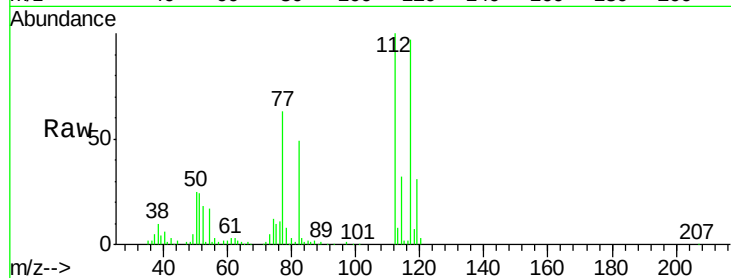




#65
Chlorobenzene
Concen: 20.025 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.00 min
Lab File: VF061606.D
Acq: 12 Feb 2019 13:56

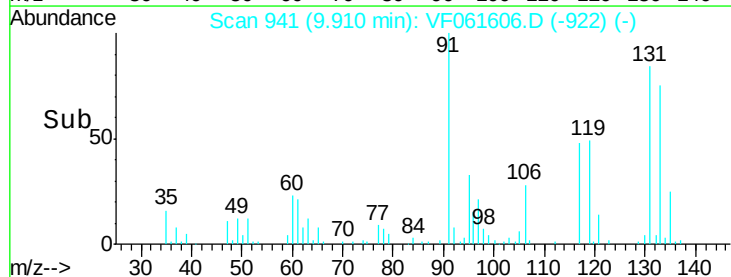
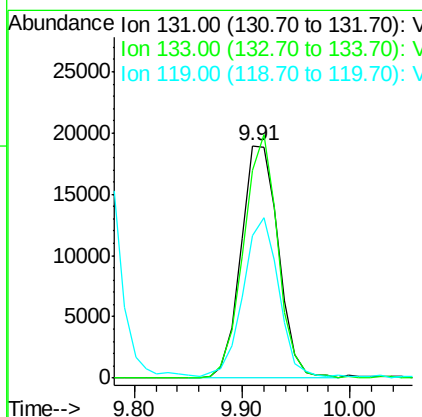
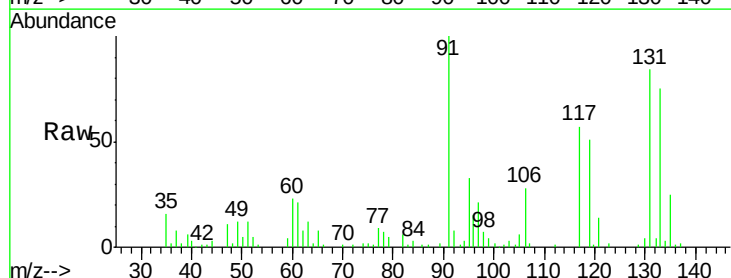
Instrument :
MSVOA_F
ClientSampleId :
VF0212SBS01

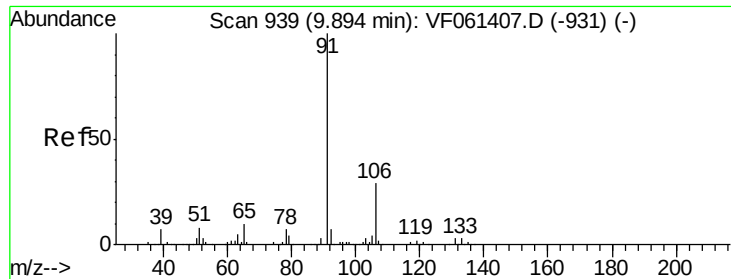
Tot Ion:112 Resp: 111139
Ion Ratio Lower Upper
112 100
114 31.8 25.4 38.0



#66
1,1,1,2-Tetrachloroethane
Concen: 20.751 ug/l
RT: 9.91 min Scan# 941
Delta R.T. -0.01 min
Lab File: VF061606.D
Acq: 12 Feb 2019 13:56

Tgt Ion:131 Resp: 45879
Ion Ratio Lower Upper
131 100
133 89.7 47.4 142.2
119 61.1 33.1 99.3





#67

Ethyl Benzene

Concen: 19.799 ug/l

RT: 9.89 min Scan# 939

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

Instrument :

MSVOA_F

ClientSampleId :

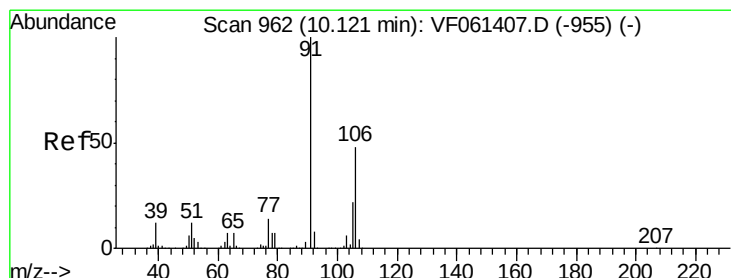
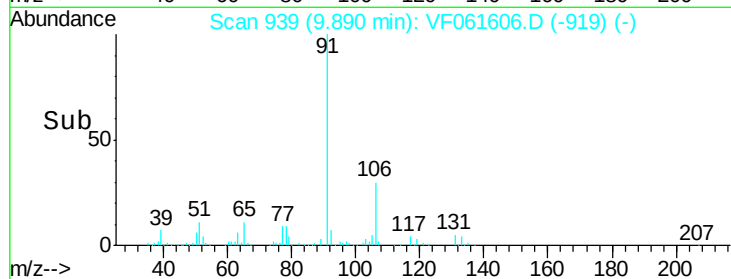
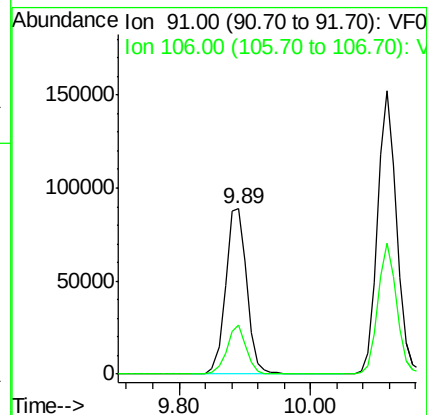
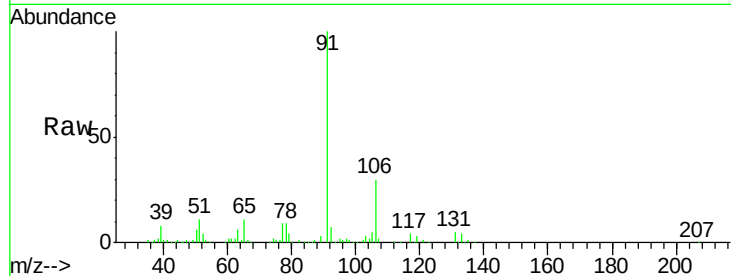
VF0212SBSD01

Tot Ion: 91 Resp: 200772

Ion Ratio Lower Upper

91 100

106 29.6 23.1 34.7



#68

m/p-Xylenes

Concen: 39.102 ug/l

RT: 10.12 min Scan# 962

Delta R.T. -0.00 min

Lab File: VF061606.D

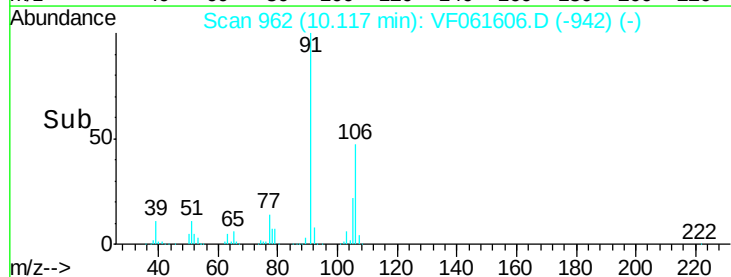
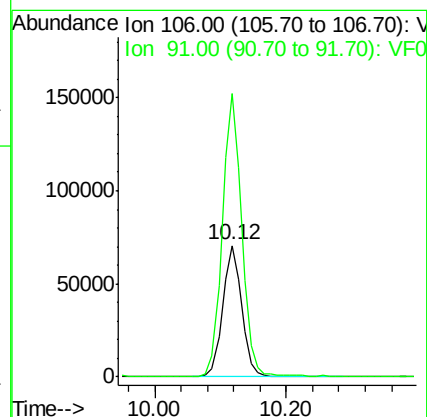
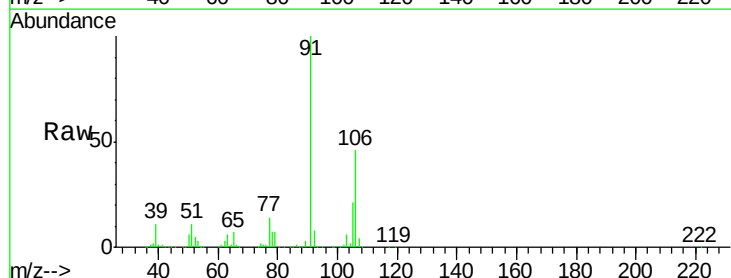
Acq: 12 Feb 2019 13:56

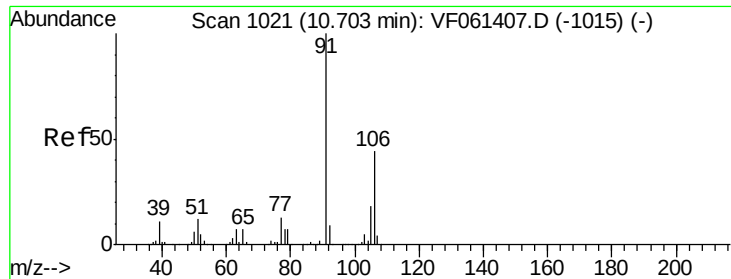
Tgt Ion: 106 Resp: 142612

Ion Ratio Lower Upper

106 100

91 215.9 166.2 249.4

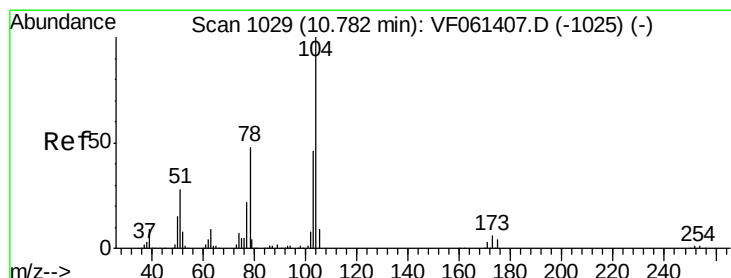
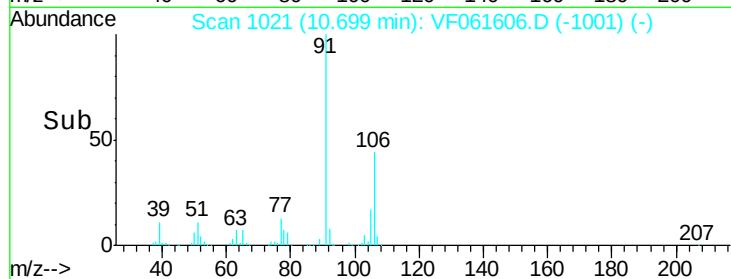
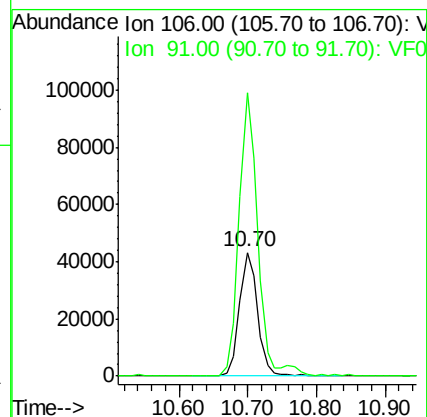
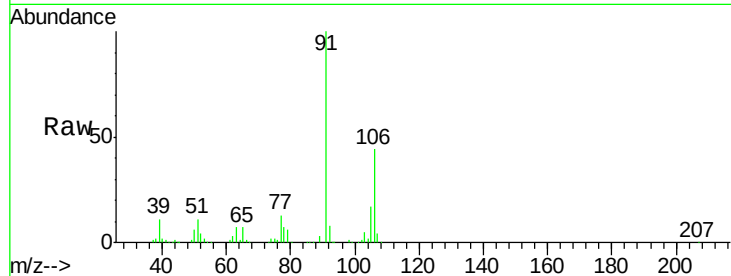




#69
o-Xylene
Concen: 20.048 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. -0.00 min
Lab File: VF061606.D
Acq: 12 Feb 2019 13:56

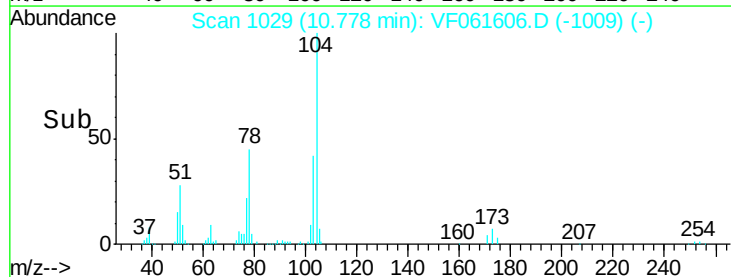
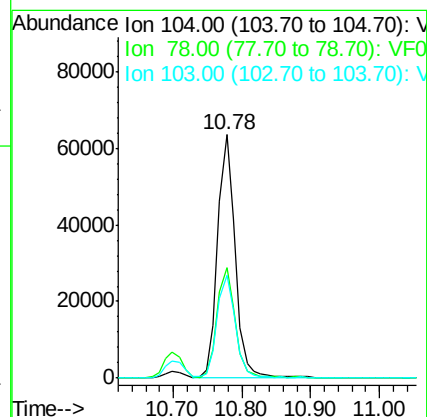
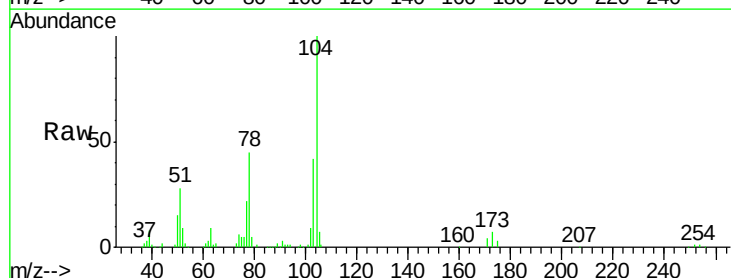
Instrument :
MSVOA_F
ClientSampleId :
VF0212SBSD01

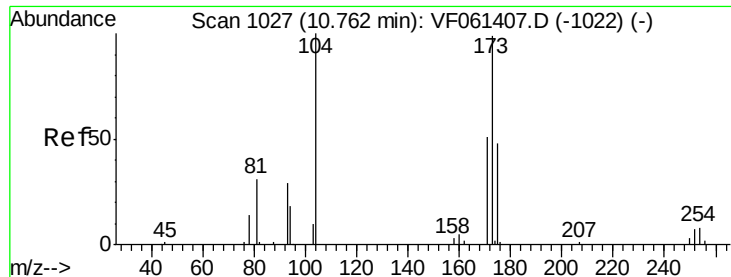
Tot Ion:106 Resp: 79247
Ion Ratio Lower Upper
106 100
91 228.4 113.3 339.8



#70
Styrene
Concen: 20.733 ug/l
RT: 10.78 min Scan# 1029
Delta R.T. -0.00 min
Lab File: VF061606.D
Acq: 12 Feb 2019 13:56

Tgt Ion:104 Resp: 112181
Ion Ratio Lower Upper
104 100
78 45.3 38.8 58.2
103 42.4 37.0 55.6





#71

Bromoform

Concen: 20.725 ug/l

RT: 10.76 min Scan# 1027

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

Instrument :

MSVOA_F

ClientSampleId :

VF0212SBS01

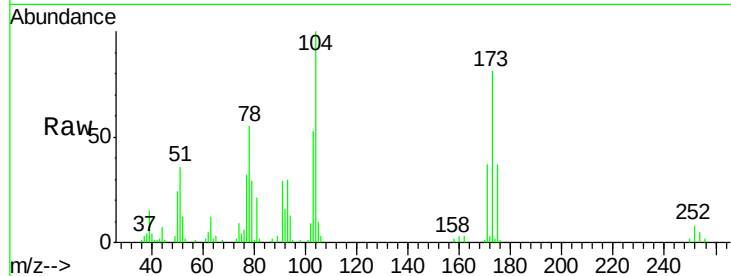
Tot Ion:173 Resp: 20588

Ion Ratio Lower Upper

173 100

175 45.3 24.1 72.4

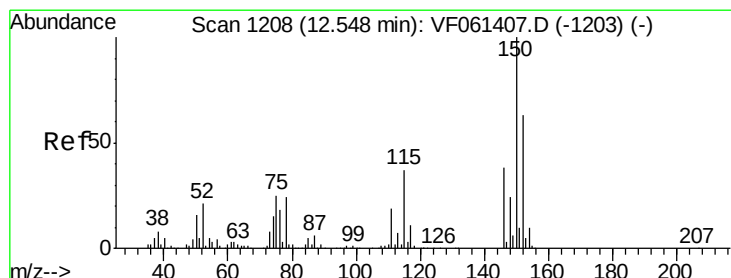
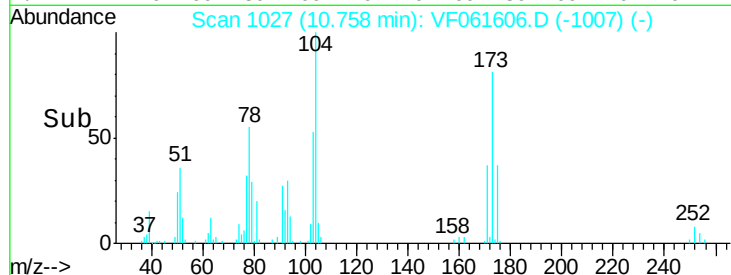
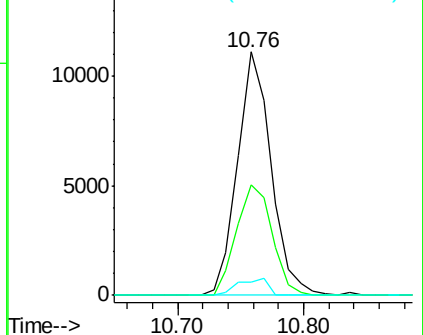
254 5.6 0.0 0.0#



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. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

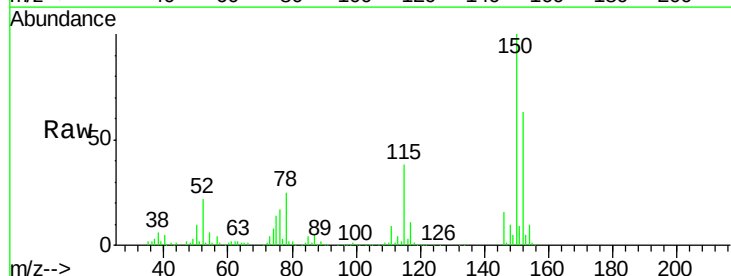
Tgt Ion:152 Resp: 142773

Ion Ratio Lower Upper

152 100

115 60.0 30.0 90.0

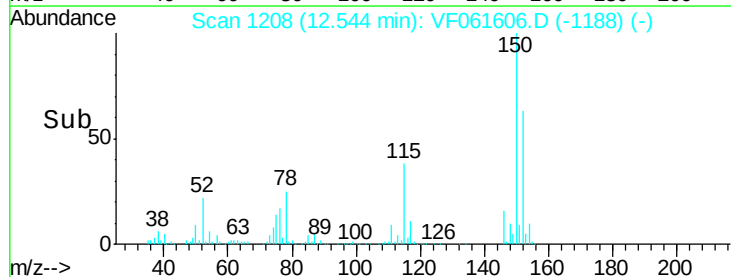
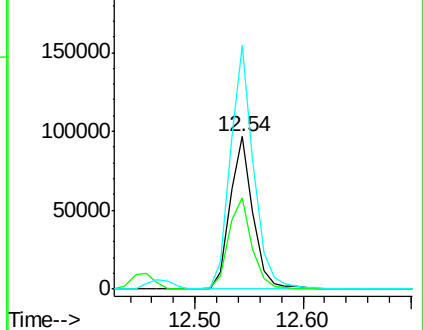
150 159.9 0.0 321.4

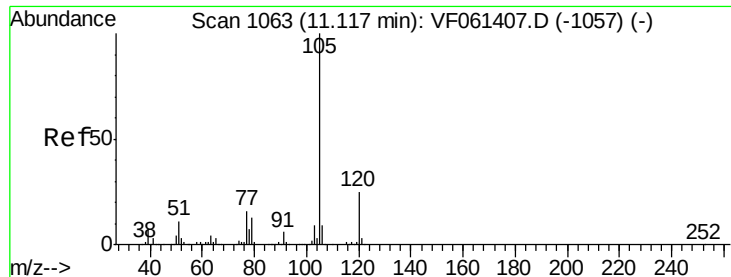


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 19.769 ug/l

RT: 11.11 min Scan# 1063

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

Instrument :

MSVOA_F

ClientSampleId :

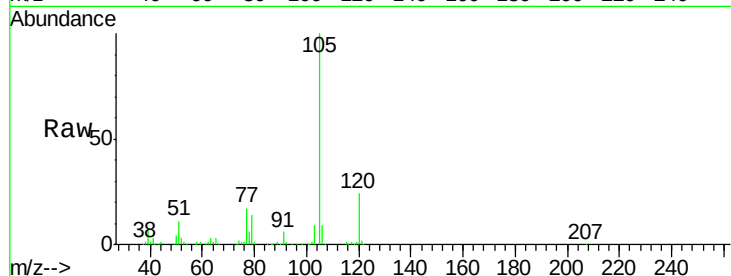
VF0212SBS01

Tot Ion:105 Resp: 229555

Ion Ratio Lower Upper

105 100

120 24.0 12.6 37.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.11

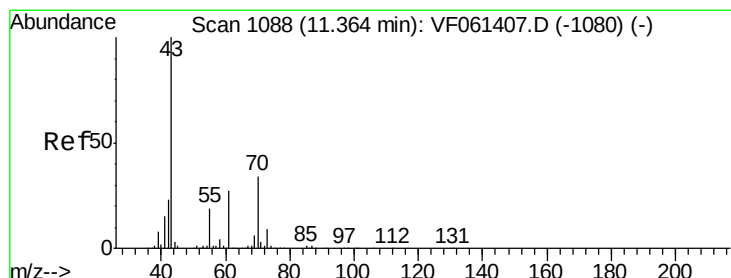
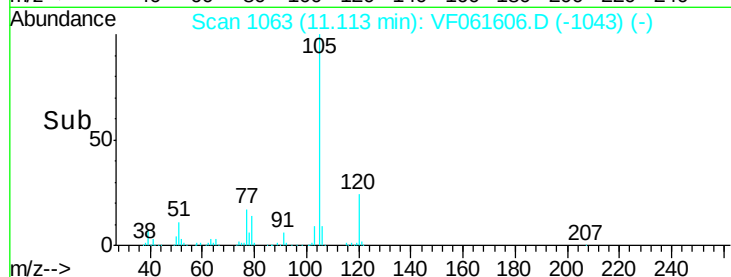
150000

100000

50000

0

Time-->



#74

N-ethyl acetate

Concen: 20.611 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

Tgt Ion: 43 Resp: 56593

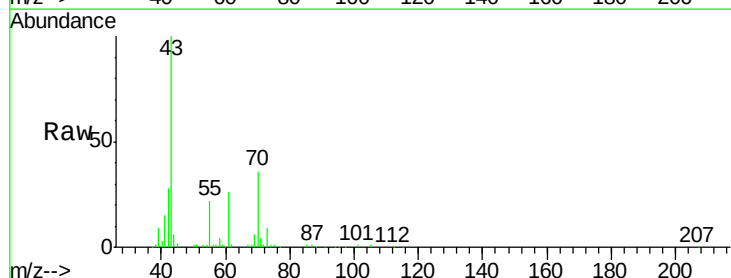
Ion Ratio Lower Upper

43 100

70 35.6 27.6 41.4

55 21.7 15.4 23.2

61 26.3 21.8 32.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

50000

40000

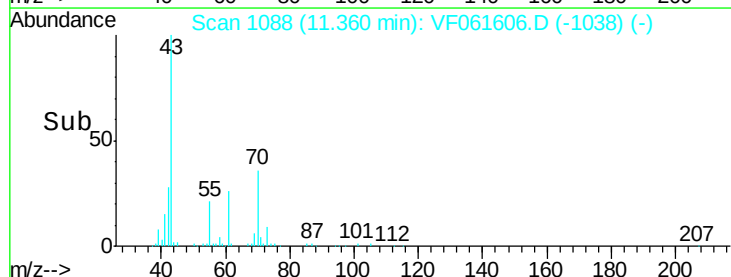
30000

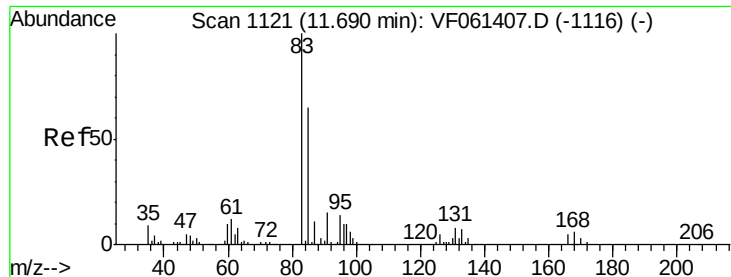
20000

10000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 19.207 ug/l

RT: 11.69 min Scan# 1121

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

Instrument :

MSVOA_F

ClientSampleId :

VF0212SBSD01

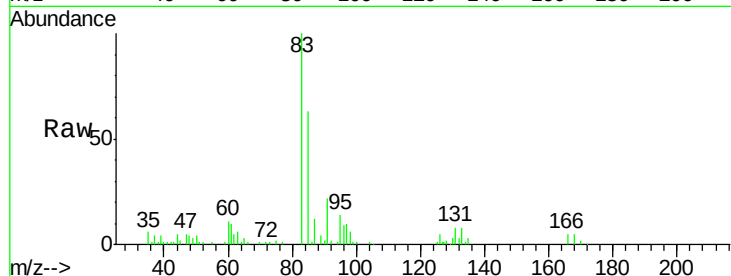
Tot Ion: 83 Resp: 39732

Ion Ratio Lower Upper

83 100

131 8.1 4.0 12.2

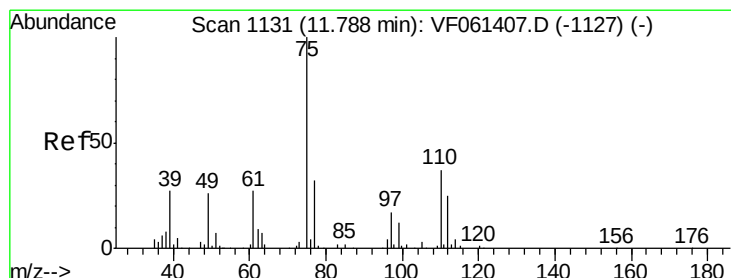
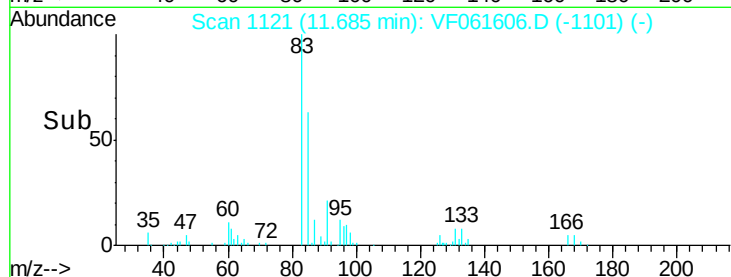
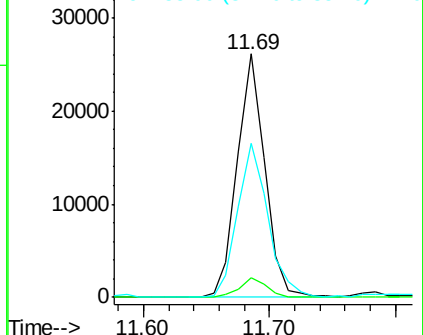
85 63.2 32.7 98.1



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 19.893 ug/l

RT: 11.78 min Scan# 1131

Delta R.T. -0.00 min

Lab File: VF061606.D

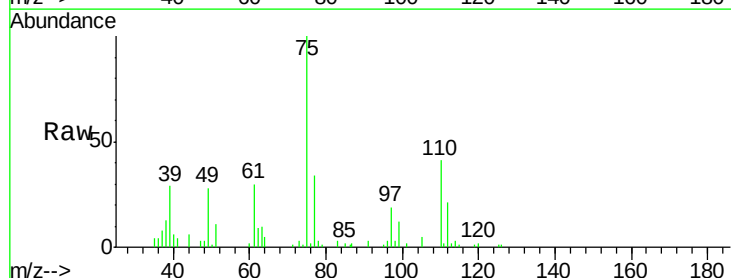
Acq: 12 Feb 2019 13:56

Tgt Ion: 75 Resp: 29570

Ion Ratio Lower Upper

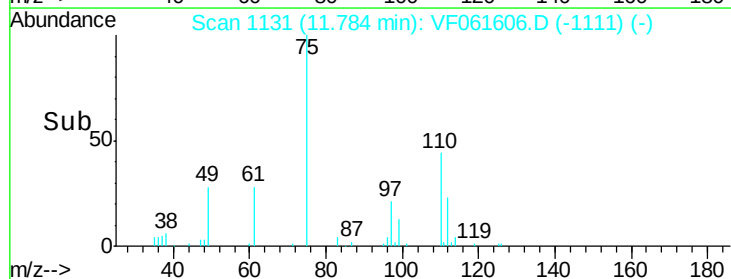
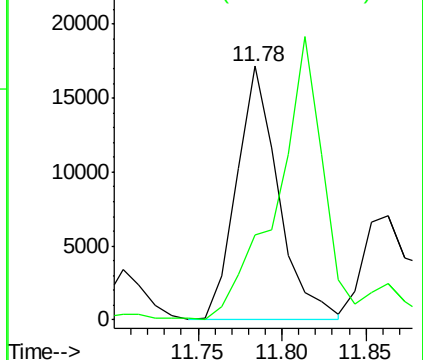
75 100

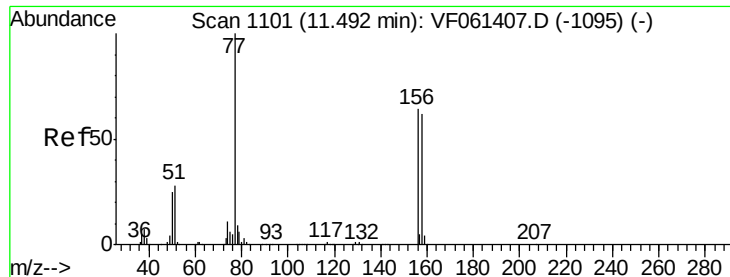
77 33.6 16.1 48.3



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 19.795 ug/l

RT: 11.49 min Scan# 1101

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

Instrument :

MSVOA_F

ClientSampleId :

VF0212SBSD01

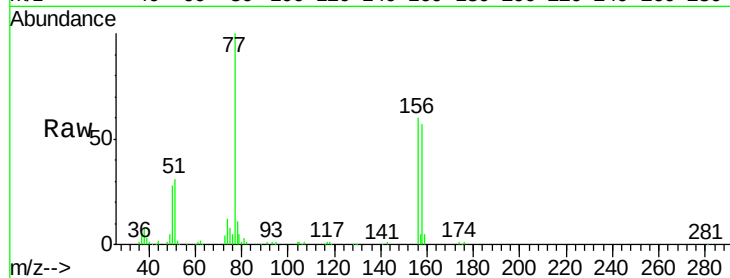
Tot Ion:156 Resp: 48544

Ion Ratio Lower Upper

156 100

77 166.9 78.3 234.9

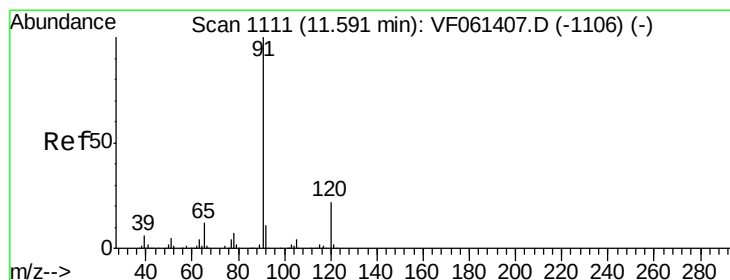
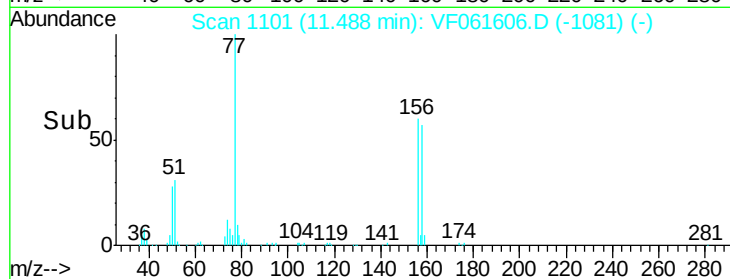
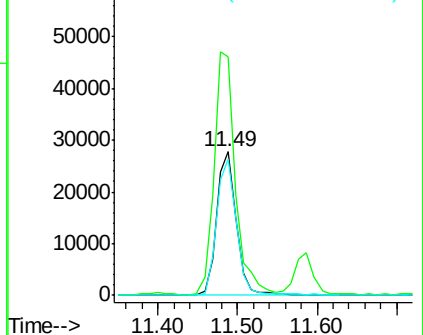
158 95.2 48.9 146.7



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



#78

n-propylbenzene

Concen: 19.051 ug/l

RT: 11.59 min Scan# 1111

Delta R.T. -0.00 min

Lab File: VF061606.D

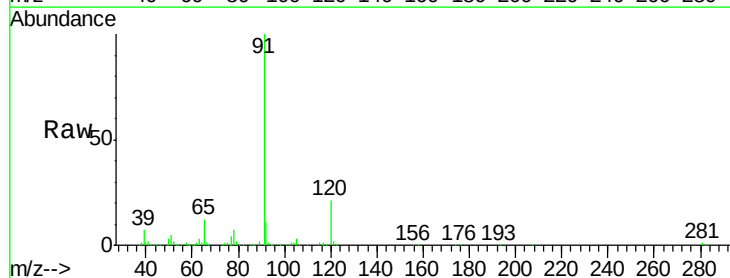
Acq: 12 Feb 2019 13:56

Tgt Ion: 91 Resp: 288752

Ion Ratio Lower Upper

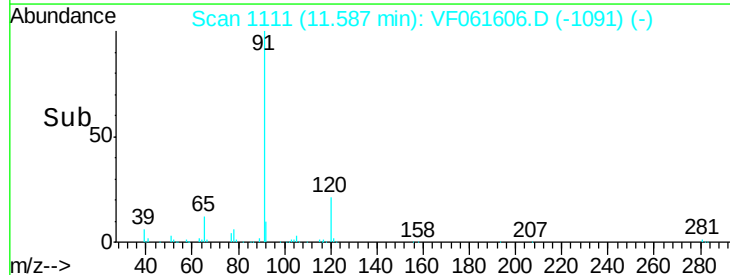
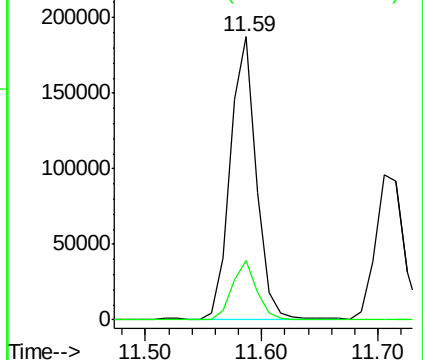
91 100

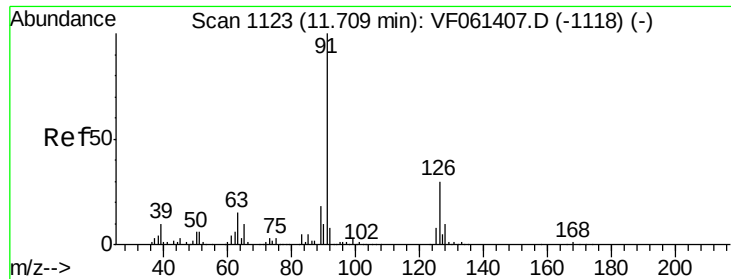
120 21.0 10.9 32.6



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 19.747 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

Instrument :

MSVOA_F

ClientSampleId :

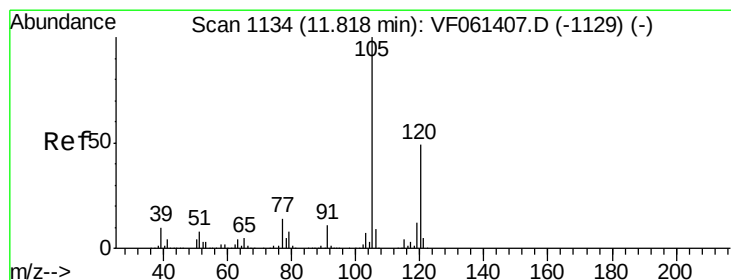
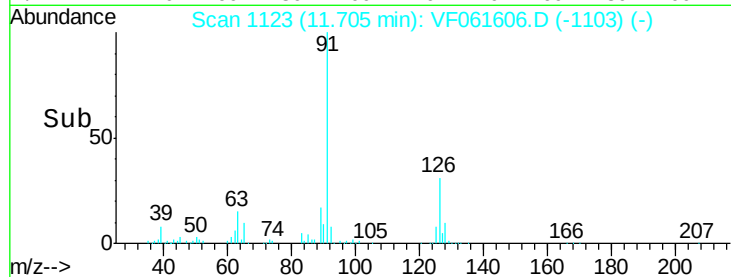
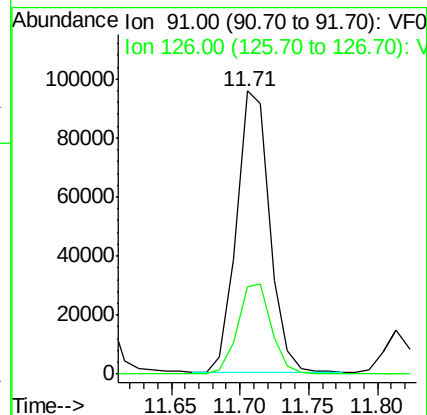
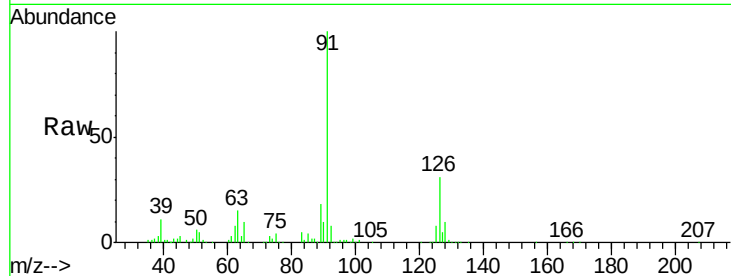
VF0212SBSD01

Tot Ion: 91 Resp: 159098

Ion Ratio Lower Upper

91 100

126 30.9 15.0 45.1



#80

1,3,5-Trimethylbenzene

Concen: 20.875 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. -0.00 min

Lab File: VF061606.D

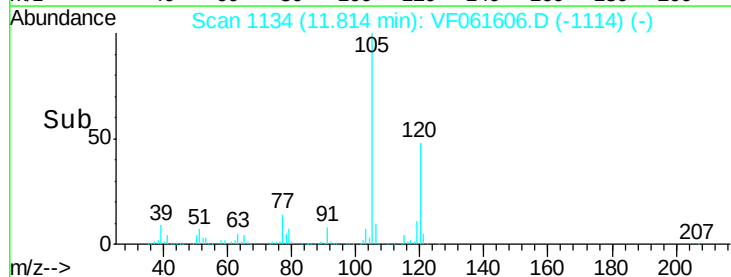
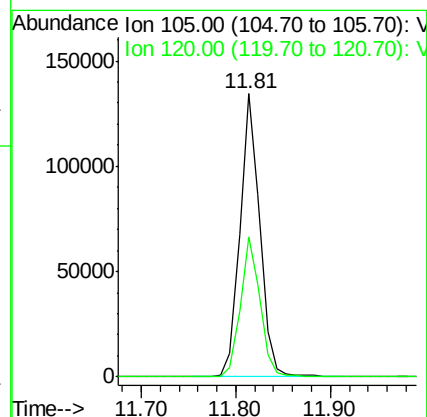
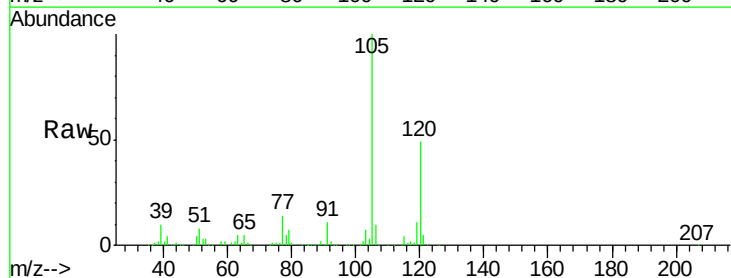
Acq: 12 Feb 2019 13:56

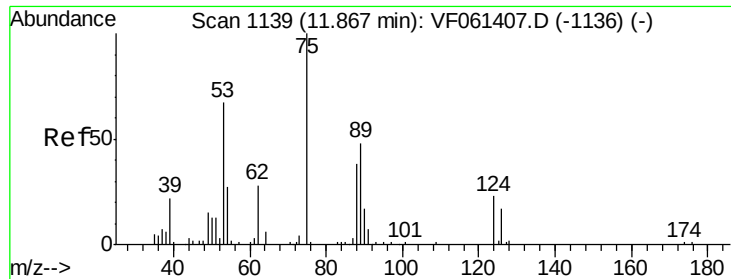
Tgt Ion:105 Resp: 195621

Ion Ratio Lower Upper

105 100

120 49.3 24.7 74.1





#81

trans-1,4-Dichloro-2-butene

Concen: 21.629 ug/l m

RT: 11.86 min Scan# 1139

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

Instrument :

MSVOA_F

ClientSampleId :

VF0212SBSD01

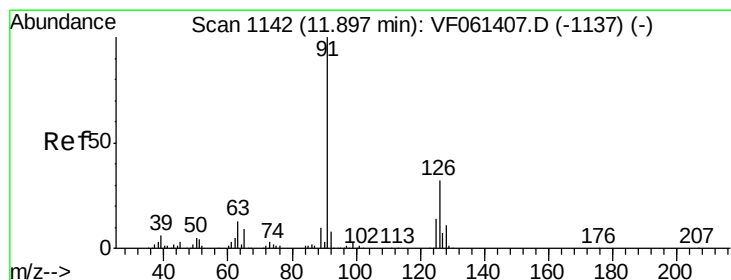
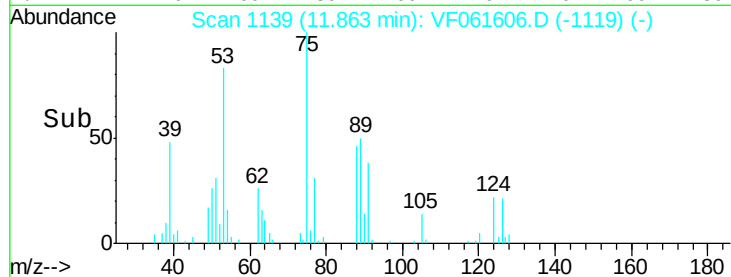
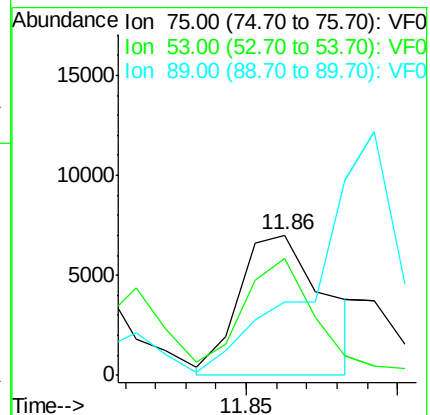
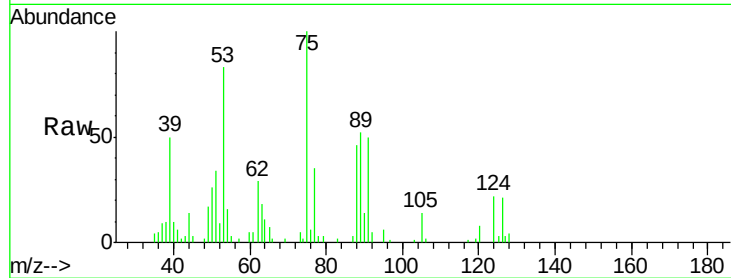
Tot Ion: 75 Resp: 13976

Ion Ratio Lower Upper

75 100

53 83.2 57.8 86.6

89 51.9 40.7 61.1



#82

4-Chlorotoluene

Concen: 20.600 ug/l

RT: 11.89 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VF061606.D

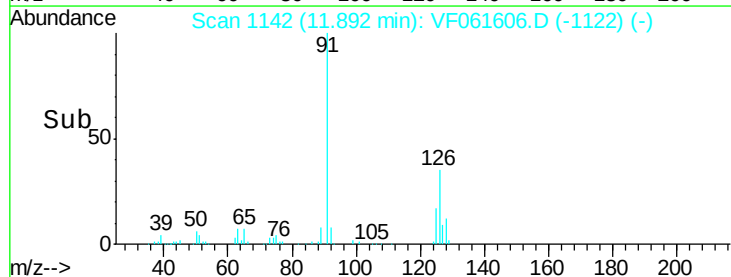
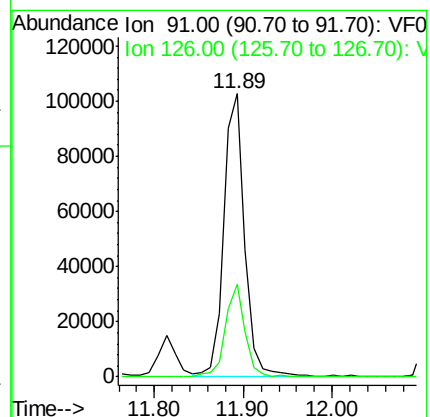
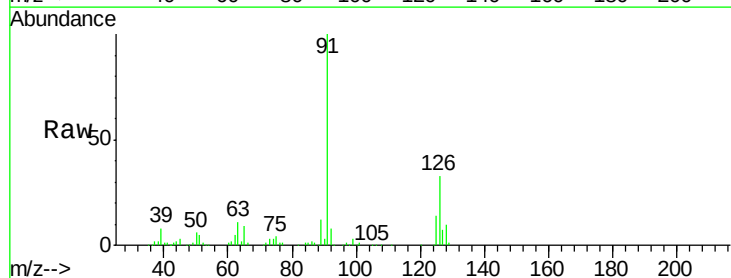
Acq: 12 Feb 2019 13:56

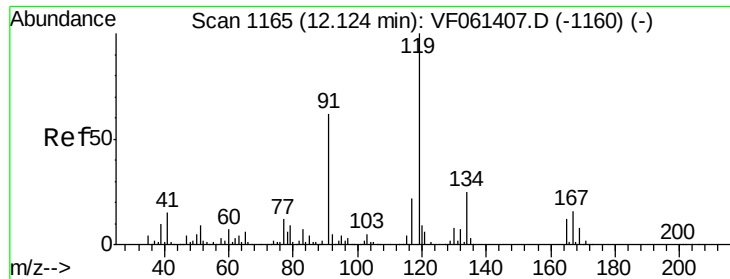
Tgt Ion: 91 Resp: 167481

Ion Ratio Lower Upper

91 100

126 32.5 16.0 47.9

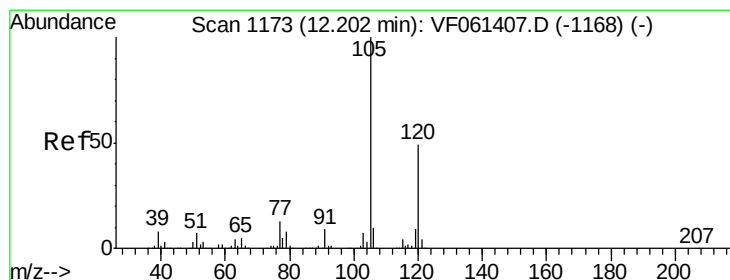
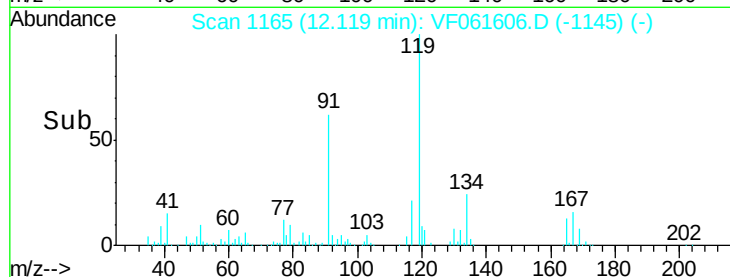
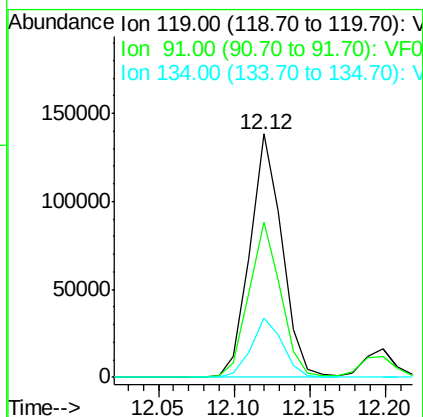
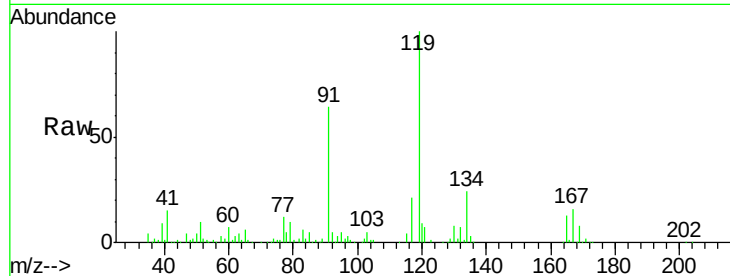




#83
tert-Butylbenzene
Concen: 21.178 ug/l
RT: 12.12 min Scan# 1165
Delta R.T. -0.00 min
Lab File: VF061606.D
Acq: 12 Feb 2019 13:56

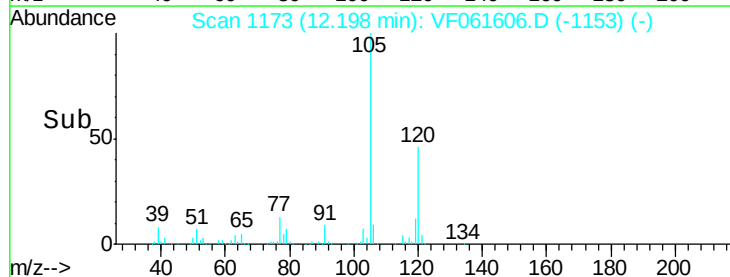
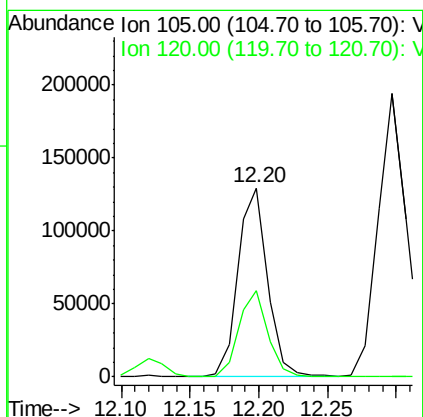
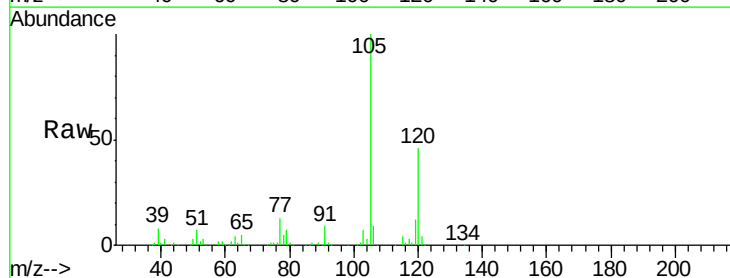
Instrument :
MSVOA_F
ClientSampleId :
VF0212SBS01

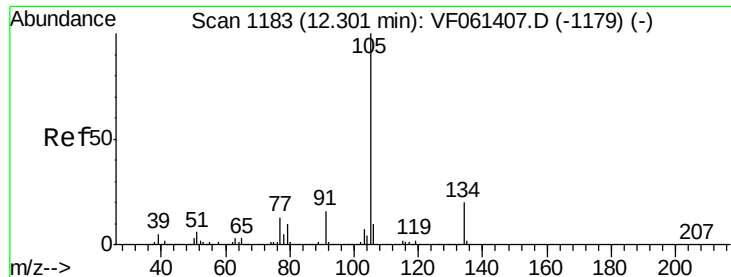
Tot Ion:119 Resp: 205414
Ion Ratio Lower Upper
119 100
91 64.0 31.3 93.8
134 24.4 12.4 37.0



#84
1,2,4-Trimethylbenzene
Concen: 20.211 ug/l
RT: 12.20 min Scan# 1173
Delta R.T. -0.00 min
Lab File: VF061606.D
Acq: 12 Feb 2019 13:56

Tgt Ion:105 Resp: 195094
Ion Ratio Lower Upper
105 100
120 45.8 24.9 74.6

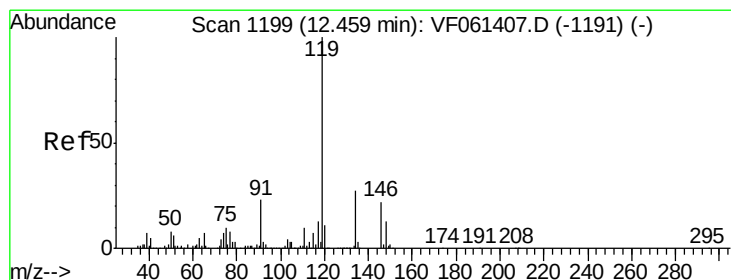
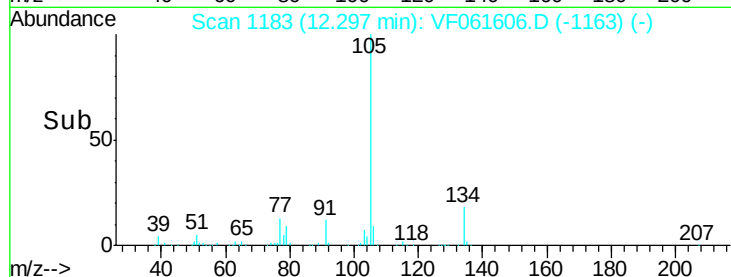
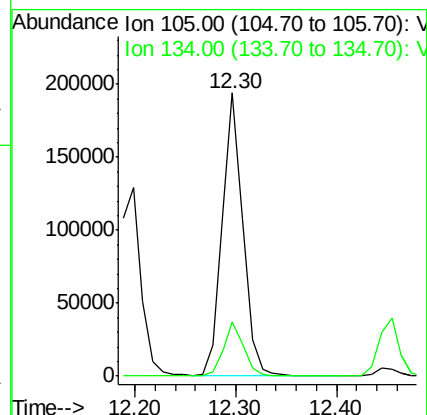
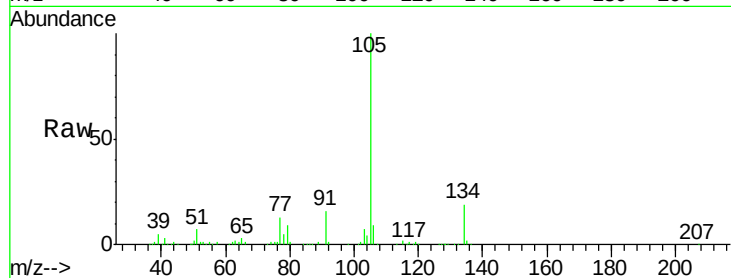




#85
 sec-Butylbenzene
 Concen: 21.261 ug/l
 RT: 12.30 min Scan# 1183
 Delta R.T. -0.00 min
 Lab File: VF061606.D
 Acq: 12 Feb 2019 13:56

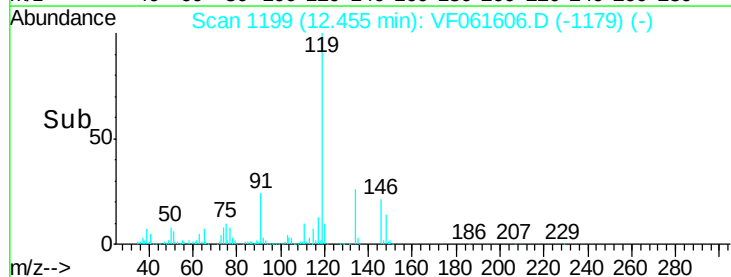
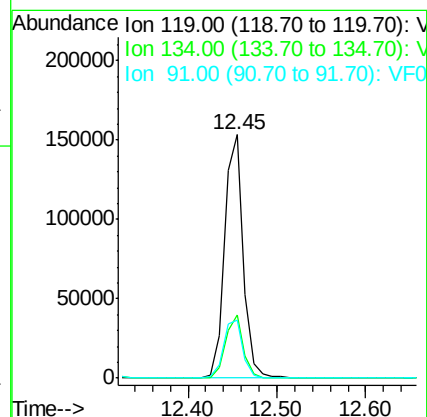
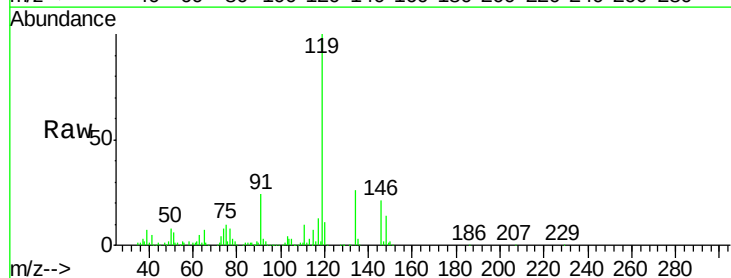
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0212SBSD01

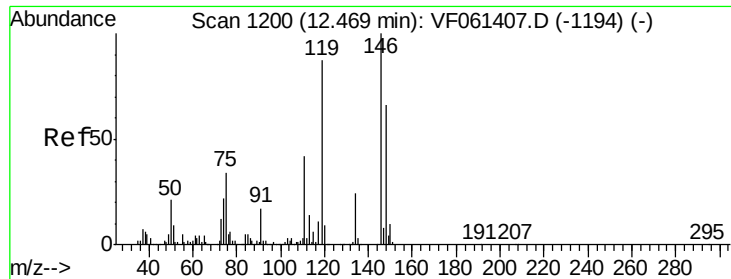
Tot Ion:105 Resp: 280045
 Ion Ratio Lower Upper
 105 100
 134 19.2 10.0 30.0



#86
 p-Isopropyltoluene
 Concen: 20.906 ug/l
 RT: 12.45 min Scan# 1199
 Delta R.T. -0.00 min
 Lab File: VF061606.D
 Acq: 12 Feb 2019 13:56

Tgt Ion:119 Resp: 226047
 Ion Ratio Lower Upper
 119 100
 134 26.0 13.4 40.2
 91 23.8 11.4 34.2

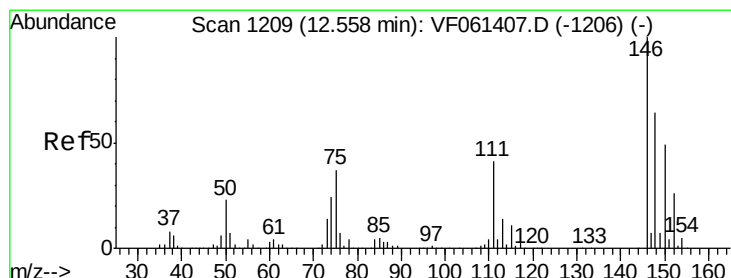
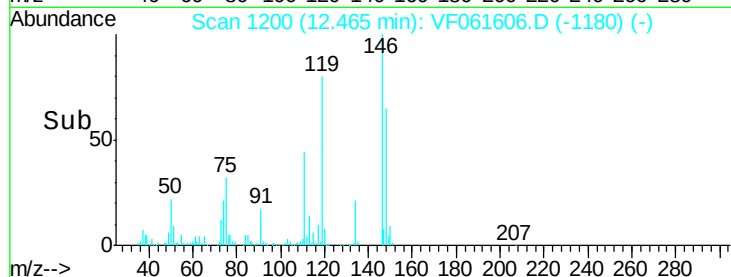
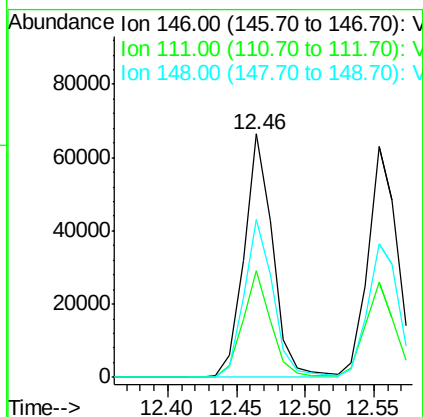
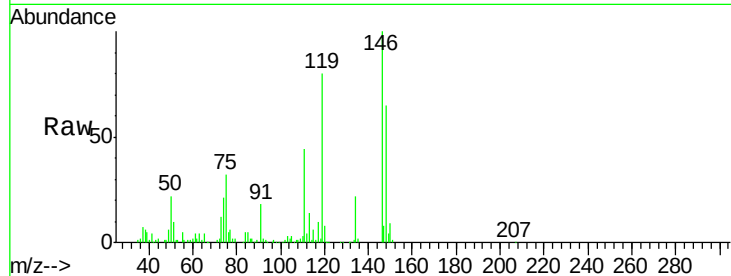




#87
 1,3-Dichlorobenzene
 Concen: 18.782 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.00 min
 Lab File: VF061606.D
 Acq: 12 Feb 2019 13:56

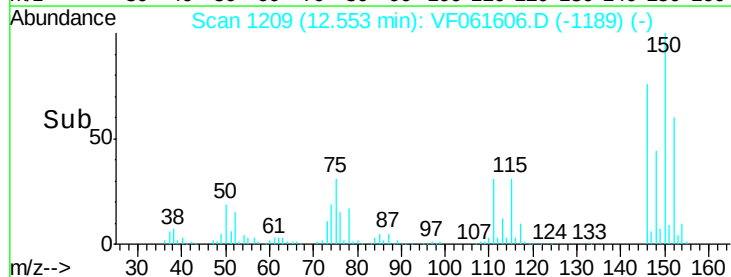
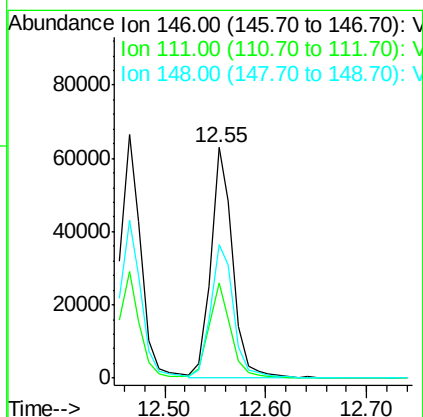
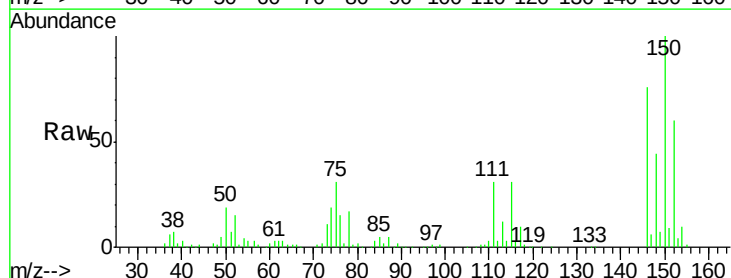
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0212SBSD01

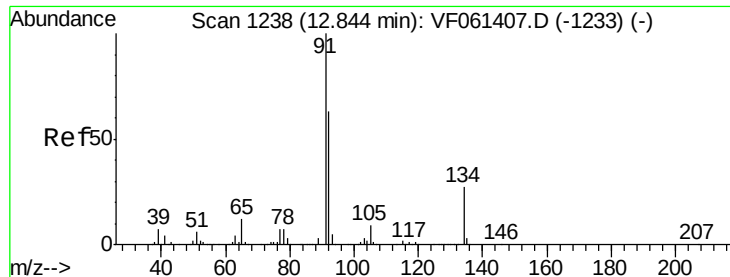
Tot Ion:146 Resp: 96903
 Ion Ratio Lower Upper
 146 100
 111 43.7 21.1 63.4
 148 65.0 32.9 98.6



#88
 1,4-Dichlorobenzene
 Concen: 20.541 ug/l
 RT: 12.55 min Scan# 1209
 Delta R.T. -0.00 min
 Lab File: VF061606.D
 Acq: 12 Feb 2019 13:56

Tgt Ion:146 Resp: 95189
 Ion Ratio Lower Upper
 146 100
 111 41.1 20.8 62.2
 148 58.0 32.1 96.5





#89

n-Butylbenzene

Concen: 21.796 ug/l

RT: 12.84 min Scan# 1238

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

Instrument :

MSVOA_F

ClientSampleId :

VF0212SBS01

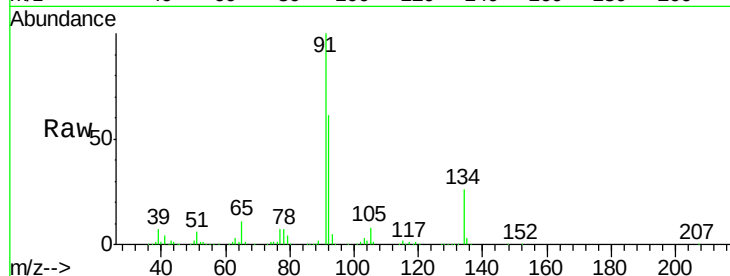
Tot Ion: 91 Resp: 243054

Ion Ratio Lower Upper

91 100

92 60.8 31.6 94.7

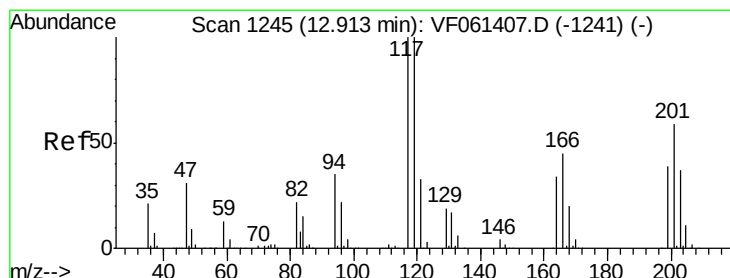
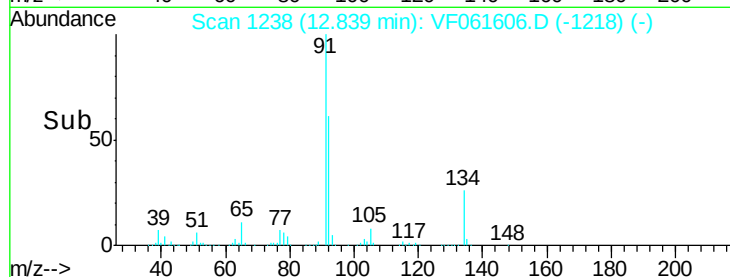
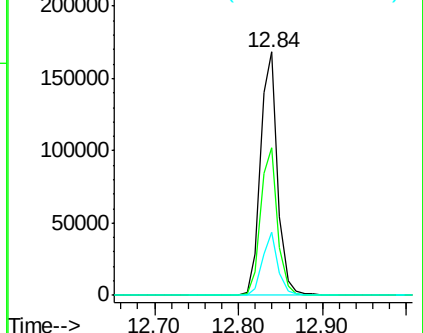
134 25.9 13.6 40.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 21.384 ug/l

RT: 12.91 min Scan# 1245

Delta R.T. -0.00 min

Lab File: VF061606.D

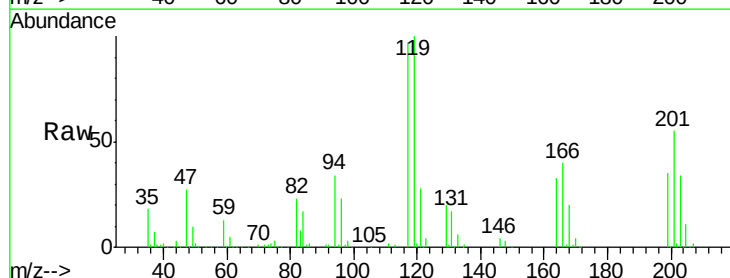
Acq: 12 Feb 2019 13:56

Tgt Ion: 117 Resp: 54503

Ion Ratio Lower Upper

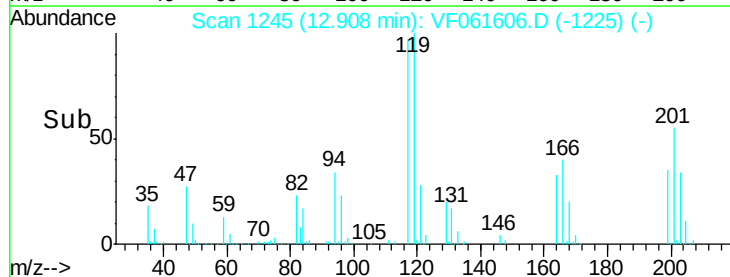
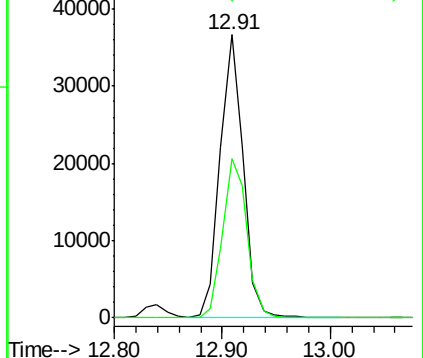
117 100

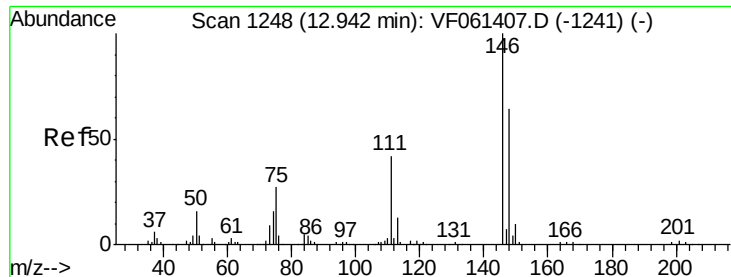
201 58.1 29.3 87.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V





#91

1,2-Dichlorobenzene

Concen: 20.379 ug/l

RT: 12.93 min Scan# 1247

Delta R.T. -0.01 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

Instrument :

MSVOA_F

ClientSampleId :

VF0212SBSD01

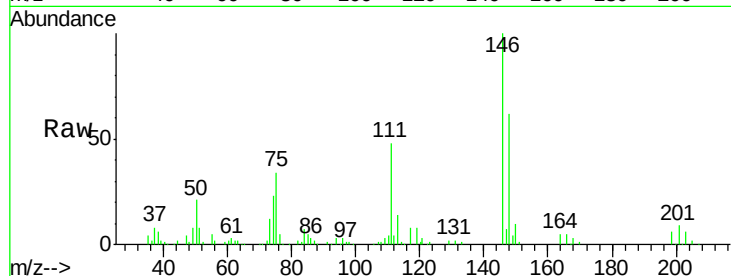
Tot Ion:146 Resp: 93490

Ion Ratio Lower Upper

146 100

111 47.6 21.1 63.3

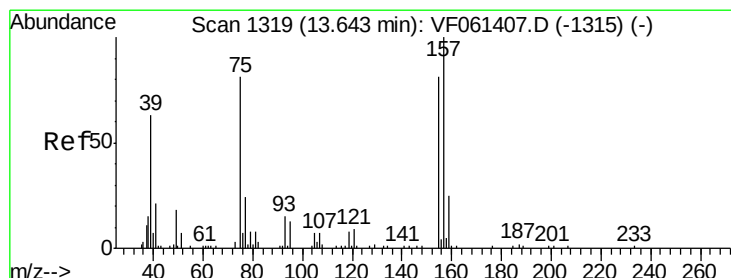
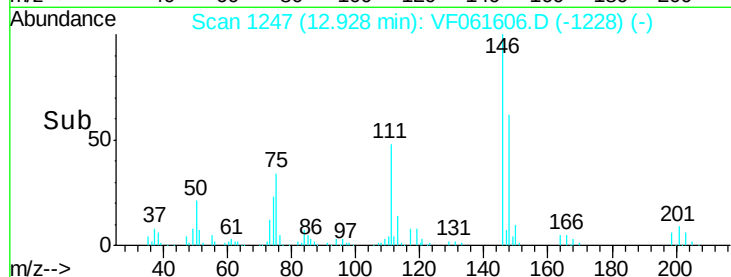
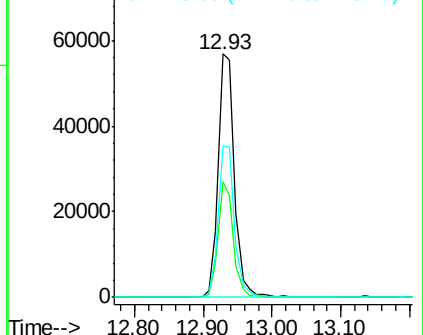
148 62.1 31.9 95.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 18.566 ug/l

RT: 13.64 min Scan# 1319

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

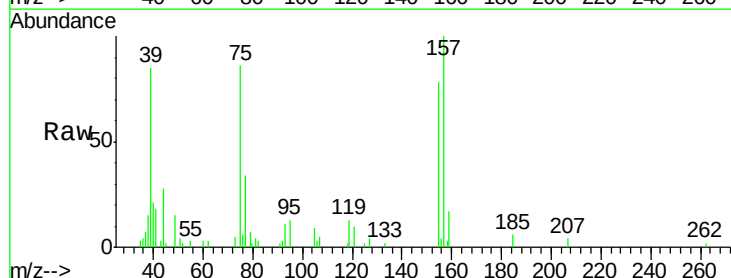
Tgt Ion: 75 Resp: 6812

Ion Ratio Lower Upper

75 100

155 90.8 49.7 149.1

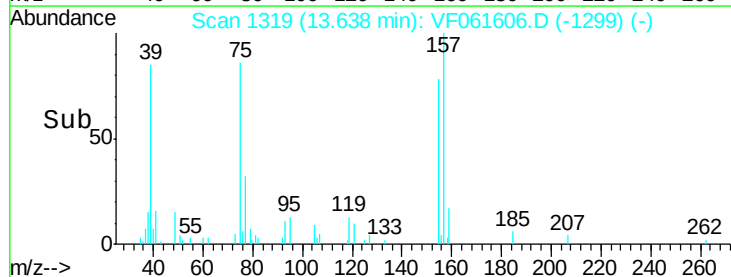
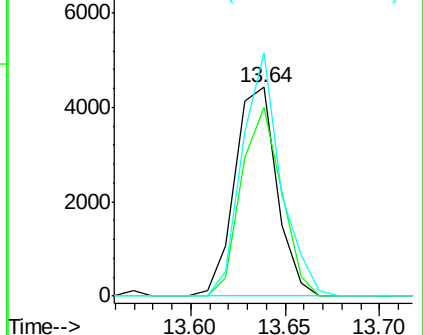
157 116.8 61.4 184.1

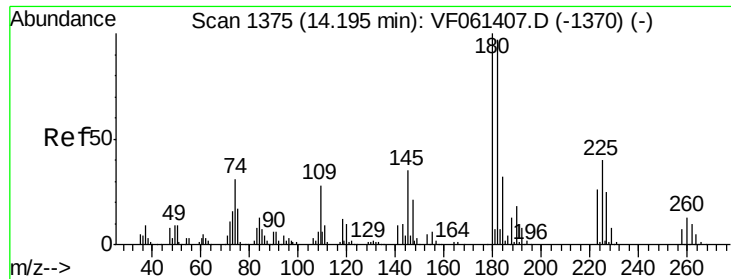


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

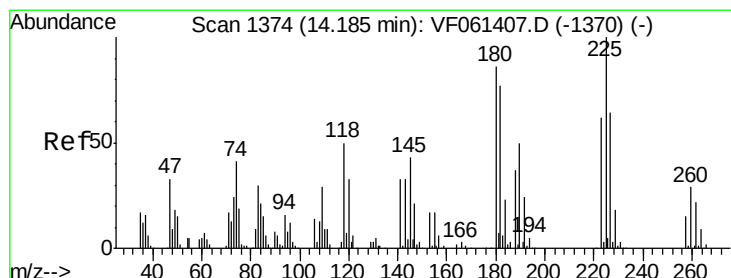
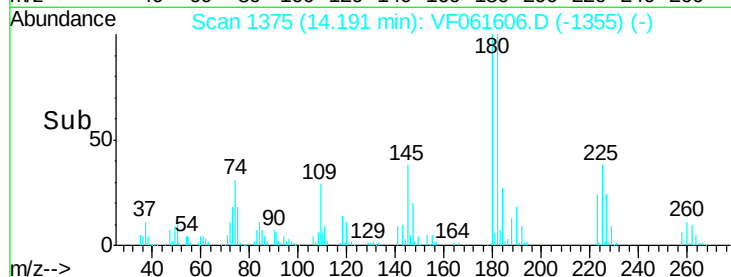
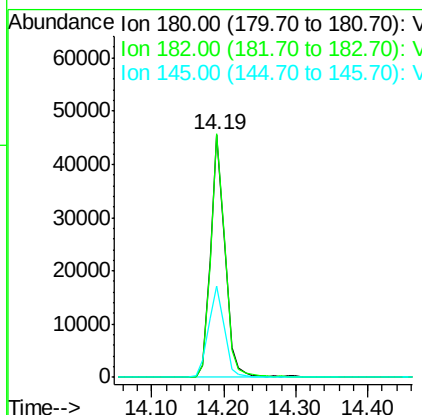
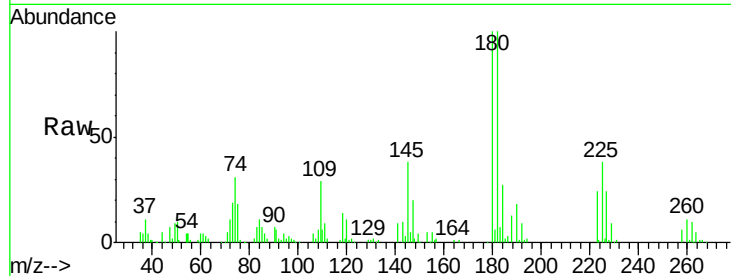




#93
 1,2,4-Trichlorobenzene
 Concen: 19.568 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.00 min
 Lab File: VF061606.D
 Acq: 12 Feb 2019 13:56

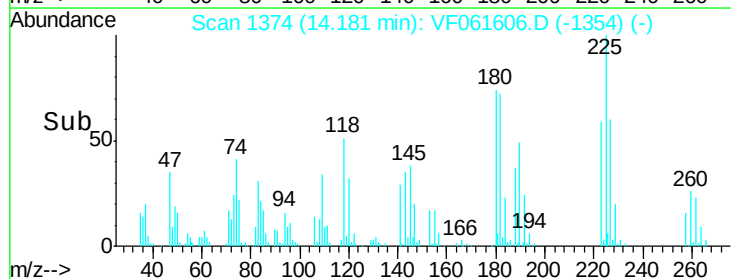
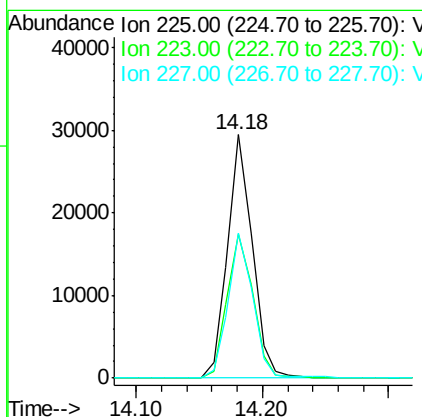
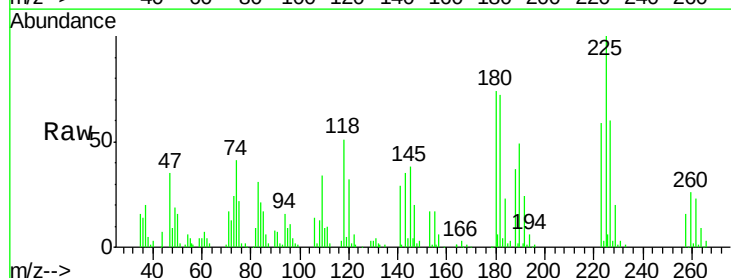
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0212SBSD01

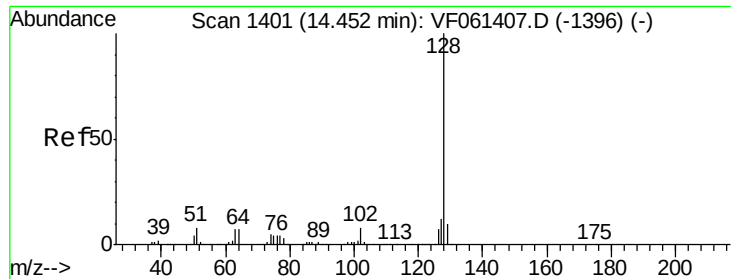
Tot Ion:180 Resp: 62887
 Ion Ratio Lower Upper
 180 100
 182 100.3 48.5 145.6
 145 37.6 17.5 52.6



#94
 Hexachlorobutadiene
 Concen: 20.098 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.00 min
 Lab File: VF061606.D
 Acq: 12 Feb 2019 13:56

Tgt Ion:225 Resp: 40079
 Ion Ratio Lower Upper
 225 100
 223 59.2 31.1 93.2
 227 59.8 32.2 96.6





#95

Naphthalene

Concen: 17.949 ug/l

RT: 14.45 min Scan# 1401

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

Instrument :

MSVOA_F

ClientSampleId :

VF0212SBSD01

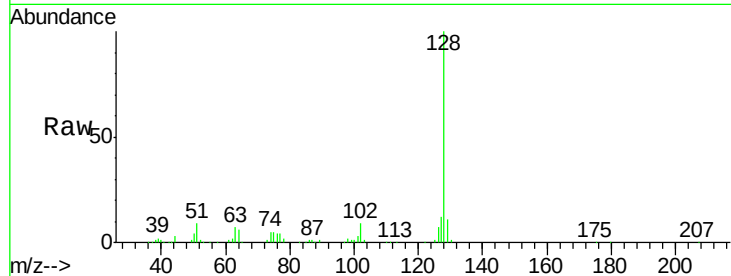
Tot Ion:128 Resp: 109595

Ion Ratio Lower Upper

128 100

127 11.9 9.5 14.3

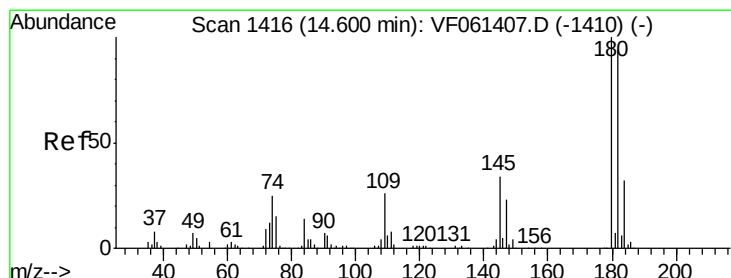
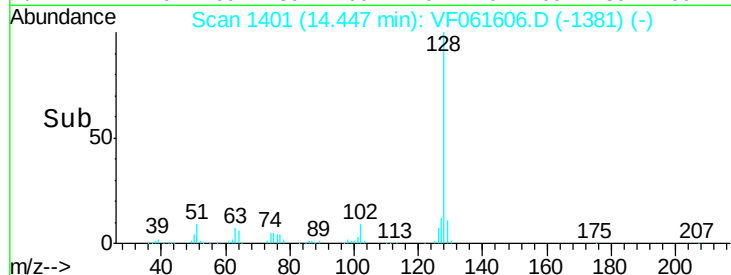
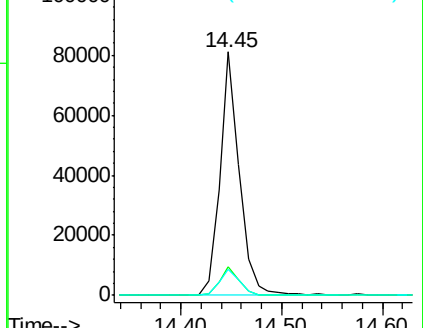
129 10.8 8.4 12.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 19.037 ug/l

RT: 14.60 min Scan# 1416

Delta R.T. -0.00 min

Lab File: VF061606.D

Acq: 12 Feb 2019 13:56

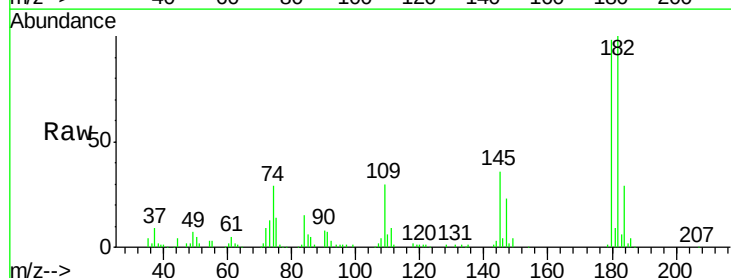
Tgt Ion:180 Resp: 56635

Ion Ratio Lower Upper

180 100

182 102.1 47.0 141.2

145 37.0 17.1 51.2



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

