

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121818\
 Data File : VF061059.D
 Acq On : 18 Dec 2018 13:31
 Operator : VA/AP
 Sample : VF1218SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1218SBS02

Quant Time: Dec 19 00:49:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	173369	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.60	114	294312	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.78	117	277183	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.55	152	144023	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	119565	58.54	ug/l	-0.03
Spiked Amount			Recovery	=	117.08%	
35) Dibromofluoromethane	4.11	113	128471	55.02	ug/l	-0.04
Spiked Amount			Recovery	=	110.04%	
50) Toluene-d8	7.55	98	342748	49.83	ug/l	-0.04
Spiked Amount			Recovery	=	99.66%	
62) 4-Bromofluorobenzene	11.41	95	162892	52.11	ug/l	-0.03
Spiked Amount			Recovery	=	104.22%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	56530	21.808	ug/l	94
3) Chloromethane	1.10	50	39493	23.413	ug/l	89
4) Vinyl Chloride	1.14	62	39285	24.968	ug/l	94
5) Bromomethane	1.32	94	26476	23.864	ug/l	87
6) Chloroethane	1.39	64	17825	26.208	ug/l #	86
7) Trichlorofluoromethane	1.48	101	81867	24.250	ug/l #	82
8) Diethyl Ether	1.63	74	11977	24.672	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	1.83	101	40081	23.485	ug/l	94
10) Methyl Iodide	1.90	142	53958	20.800	ug/l	92
11) Tert butyl alcohol	2.57	59	10160	121.356	ug/l #	90
12) 1,1-Dichloroethene	1.79	96	31799	23.164	ug/l	87
13) Acrolein	2.01	56	6643	83.747	ug/l	90
14) Allyl chloride	2.10	41	37834	22.112	ug/l	95
15) Acrylonitrile	2.95	53	23349	124.399	ug/l	97
16) Acetone	2.25	43	51001	135.418	ug/l	95
17) Carbon Disulfide	1.83	76	84471	22.950	ug/l	99
18) Methyl Acetate	2.34	43	17909	27.604	ug/l	96
19) Methyl tert-butyl Ether	2.43	73	73958	23.921	ug/l	94
20) Methylene Chloride	2.25	84	23387	16.927	ug/l	96
21) trans-1,2-Dichloroethene	2.30	96	24473	18.492	ug/l	95
22) Diisopropyl ether	2.80	45	116789	25.076	ug/l	96
23) Vinyl Acetate	3.19	43	267191	125.506	ug/l	98
24) 1,1-Dichloroethane	2.87	63	68701	24.793	ug/l	97
25) 2-Butanone	4.34	43	84370	129.517	ug/l	97
26) 2,2-Dichloropropane	3.60	77	41007	22.827	ug/l	99
27) cis-1,2-Dichloroethene	3.48	96	51649	23.972	ug/l	92
28) Bromochloromethane	3.72	49	33520	25.206	ug/l #	81
29) Tetrahydrofuran	4.09	42	32264	116.844	ug/l	100
30) Chloroform	3.86	83	105008	24.623	ug/l	97
31) Cyclohexane	3.69	56	39978	13.902	ug/l #	91
32) 1,1,1-Trichloroethane	4.10	97	64178	21.699	ug/l	93
36) 1,1-Dichloropropene	4.28	75	75290	23.064	ug/l	99
37) Ethyl Acetate	4.12	43	32617	24.587	ug/l #	84
38) Carbon Tetrachloride	3.99	117	62423	21.650	ug/l	94

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Instrument :
 MSVOA_F
 ClientSampleId :
 VF1218SBS02

Quant Time: Dec 19 00:49:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.46	83	71772	20.980	ug/l	98
40) Benzene	4.63	78	168438	23.356	ug/l	96
41) Methacrylonitrile	4.75	41	17352	23.183	ug/l #	87
42) 1,2-Dichloroethane	4.95	62	65362	24.826	ug/l	95
43) Isopropyl Acetate	6.96	43	41612	24.010	ug/l #	96
44) Trichloroethene	5.51	130	55620	23.588	ug/l	97
45) 1,2-Dichloropropane	6.24	63	41841	22.339	ug/l	98
46) Dibromomethane	6.08	93	29969	23.587	ug/l	88
47) Bromodichloromethane	6.39	83	82247	24.372	ug/l	96
48) Methyl methacrylate	6.72	41	27926	23.257	ug/l	94
49) 1,4-Dioxane	6.71	88	4735	538.796	ug/l #	79
51) 4-Methyl-2-Pentanone	8.26	43	148081	121.049	ug/l	98
52) Toluene	7.63	92	114409	22.585	ug/l	96
53) t-1,3-Dichloropropene	8.28	75	65069	23.705	ug/l	99
54) cis-1,3-Dichloropropene	7.31	75	80412	23.663	ug/l	96
55) 1,1,2-Trichloroethane	8.49	97	35644	24.148	ug/l	93
56) Ethyl methacrylate	8.63	69	37772	23.036	ug/l #	94
57) 1,3-Dichloropropane	8.85	76	63537	24.604	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.30	63	36062	215.014	ug/l	97
59) 2-Hexanone	9.50	43	105005	122.351	ug/l	99
60) Dibromochloromethane	8.72	129	49802	22.645	ug/l	98
61) 1,2-Dibromoethane	8.99	107	35369	22.181	ug/l	100
64) Tetrachloroethene	8.15	164	47084	22.240	ug/l	97
65) Chlorobenzene	9.80	112	125474	23.269	ug/l	94
66) 1,1,1,2-Tetrachloroethane	9.93	131	52179	22.509	ug/l	98
67) Ethyl Benzene	9.90	91	240067	23.914	ug/l	98
68) m/p-Xylenes	10.14	106	173427	48.033	ug/l	96
69) o-Xylene	10.72	106	91197	22.906	ug/l	92
70) Styrene	10.79	104	133773	24.238	ug/l	99
71) Bromoform	10.78	173	26342	23.525	ug/l #	95
73) Isopropylbenzene	11.12	105	273795	24.056	ug/l	99
74) N-amyl acetate	11.37	43	62812	23.900	ug/l	93
75) 1,1,2,2-Tetrachloroethane	11.70	83	46068	24.594	ug/l	95
76) 1,2,3-Trichloropropane	11.79	75	35116	25.792	ug/l	89
77) Bromobenzene	11.50	156	56992	22.840	ug/l	87
78) n-propylbenzene	11.60	91	327244	24.552	ug/l	97
79) 2-Chlorotoluene	11.72	91	182230	23.844	ug/l	94
80) 1,3,5-Trimethylbenzene	11.82	105	227355	24.606	ug/l	94
81) trans-1,4-Dichloro-2-buten	11.87	75	20393	30.570	ug/l	99
82) 4-Chlorotoluene	11.90	91	196431	24.423	ug/l	96
83) tert-Butylbenzene	12.13	119	226756	24.093	ug/l	96
84) 1,2,4-Trimethylbenzene	12.21	105	217208	23.555	ug/l	100
85) sec-Butylbenzene	12.31	105	315724	24.505	ug/l	97
86) p-Isopropyltoluene	12.46	119	256303	23.727	ug/l	98
87) 1,3-Dichlorobenzene	12.47	146	111226	23.434	ug/l	97
88) 1,4-Dichlorobenzene	12.56	146	111207	24.042	ug/l	96
89) n-Butylbenzene	12.85	91	269276	24.653	ug/l	96
90) Hexachloroethane	12.92	117	59842	23.006	ug/l	98
91) 1,2-Dichlorobenzene	12.95	146	101570	22.597	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.65	75	8456	23.349	ug/l	95

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Instrument :
MSVOA_F
ClientSampleId :
VF1218SBS02

Quant Time: Dec 19 00:49:44 2018
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Quant Title : SW846 8260
QLast Update : Tue Nov 27 01:36:26 2018
Response via : Initial Calibration

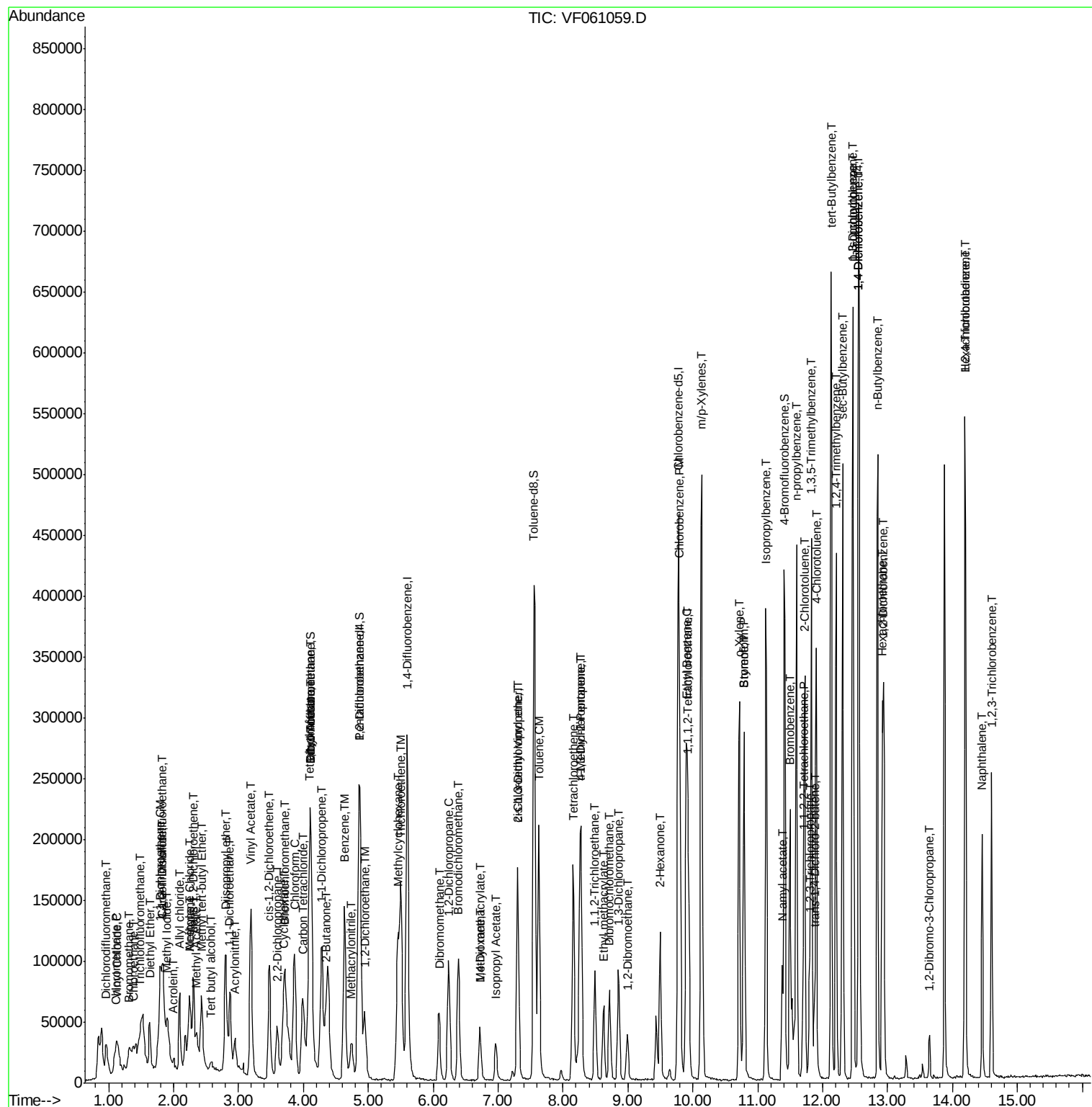
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	79281	25.244	ug/l	92
94) Hexachlorobutadiene	14.19	225	48991	23.401	ug/l	97
95) Naphthalene	14.46	128	132969	19.693	ug/l	97
96) 1,2,3-Trichlorobenzene	14.61	180	68354	23.440	ug/l	99

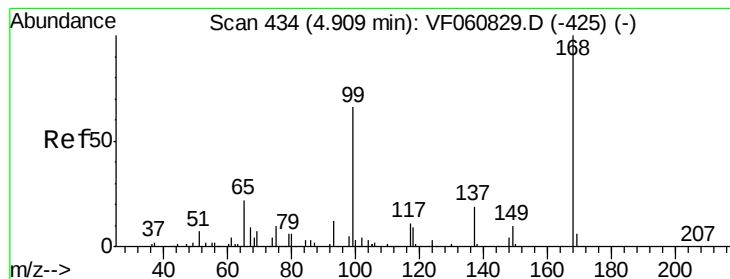
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF121818\
 Data File : VF061059.D
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 Sample : VF1218SBS01
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 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.04 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA_F

ClientSampleId :

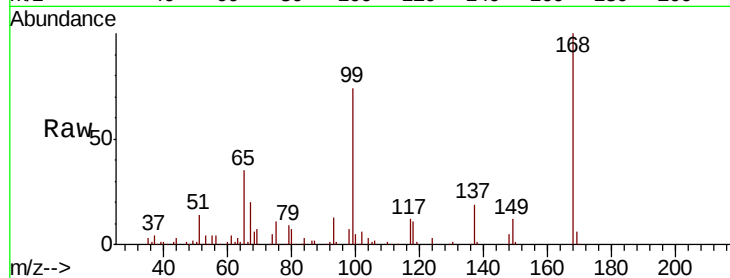
VF1218SBS02

Tot Ion:168 Resp: 173369

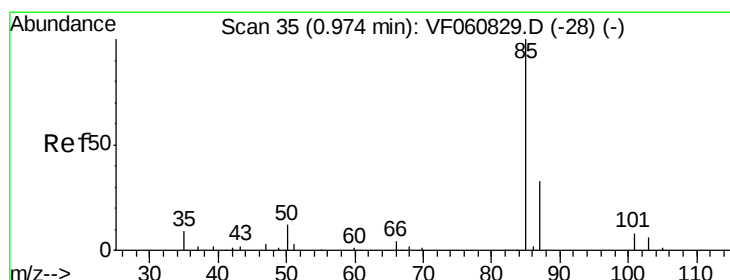
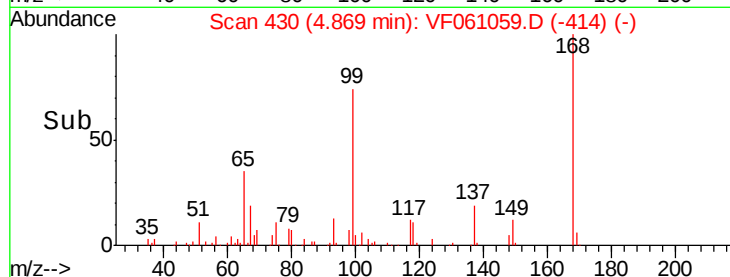
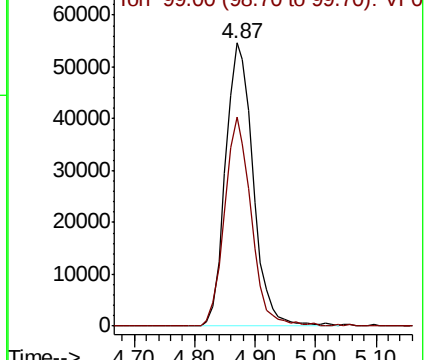
Ion Ratio Lower Upper

168 100

99 73.8 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0



#2

Dichlorodifluoromethane

Concen: 21.808 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.01 min

Lab File: VF061059.D

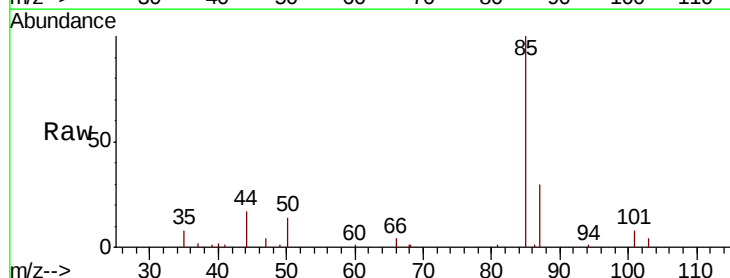
Acq: 18 Dec 2018 13:31

Tgt Ion: 85 Resp: 56530

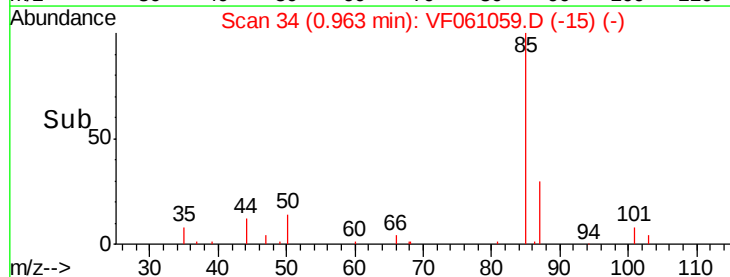
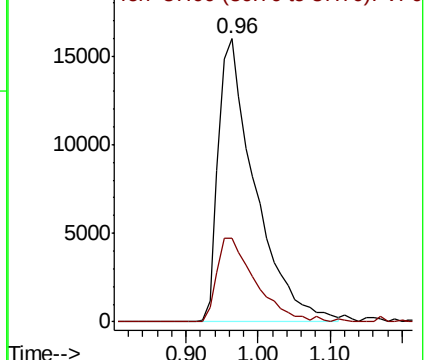
Ion Ratio Lower Upper

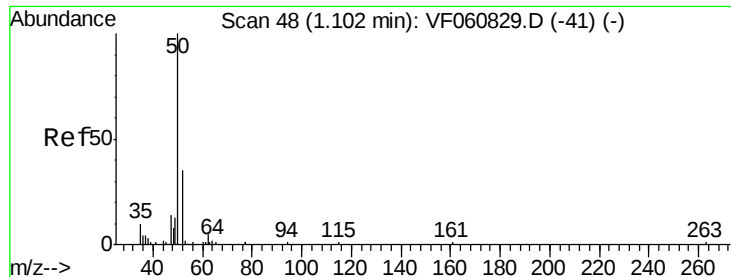
85 100

87 29.8 16.7 50.0



Abundance Ion 85.00 (84.70 to 85.70): VF0





#3

Chloromethane

Concen: 23.413 ug/l

RT: 1.10 min Scan# 48

Delta R.T. -0.00 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA_F

ClientSampleId :

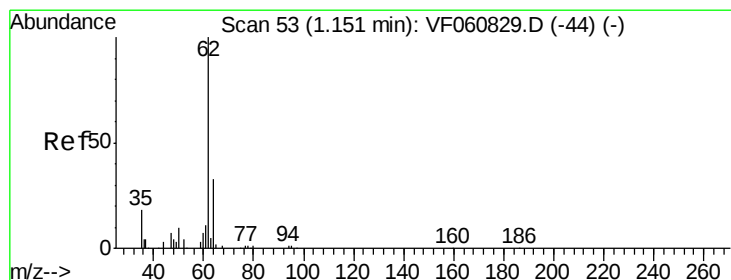
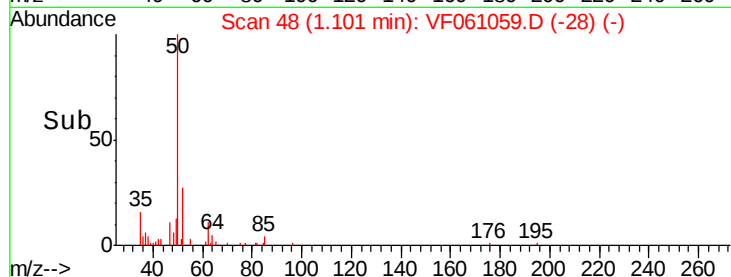
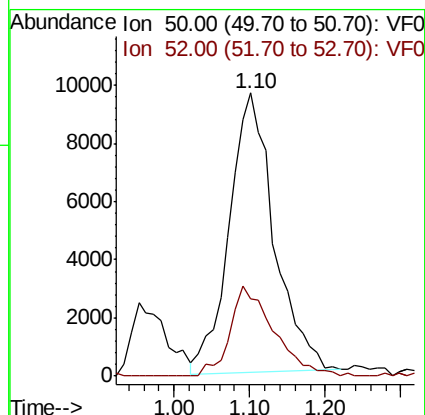
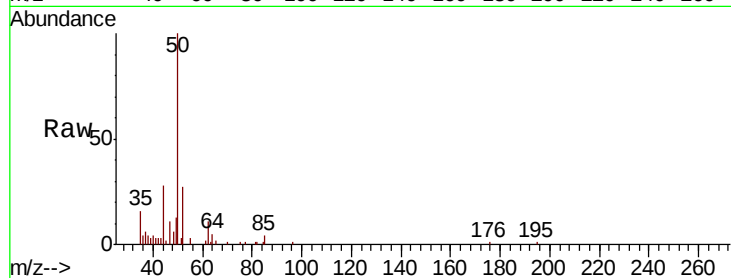
VF1218SBS02

Tot Ion: 50 Resp: 39493

Ion Ratio Lower Upper

50 100

52 27.2 27.0 40.4



#4

Vinyl Chloride

Concen: 24.968 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.01 min

Lab File: VF061059.D

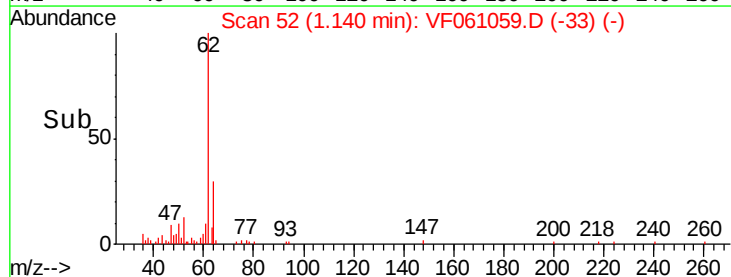
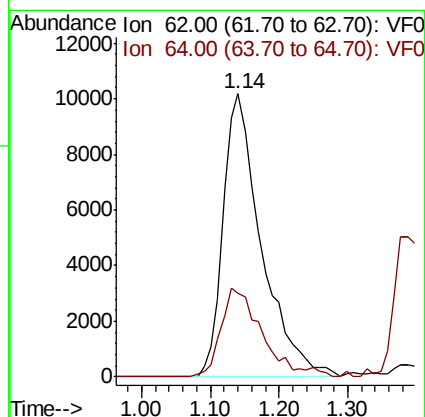
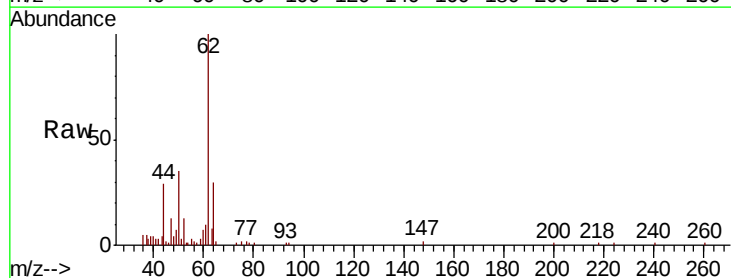
Acq: 18 Dec 2018 13:31

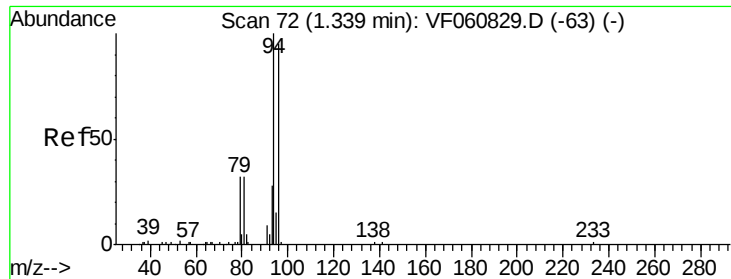
Tgt Ion: 62 Resp: 39285

Ion Ratio Lower Upper

62 100

64 29.6 26.4 39.6





#5

Bromomethane

Concen: 23.864 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.02 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA_F

ClientSampleId :

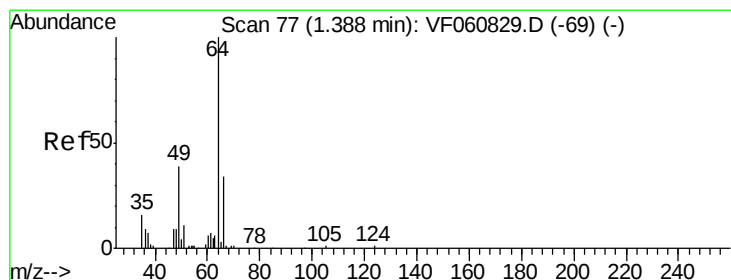
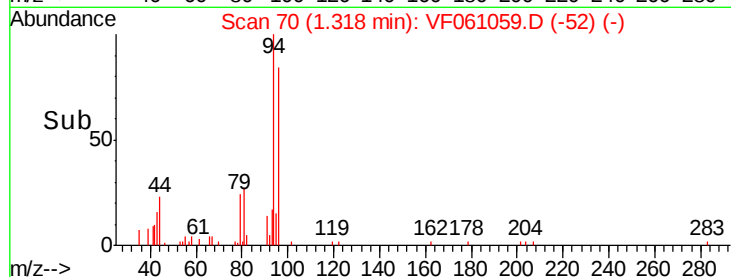
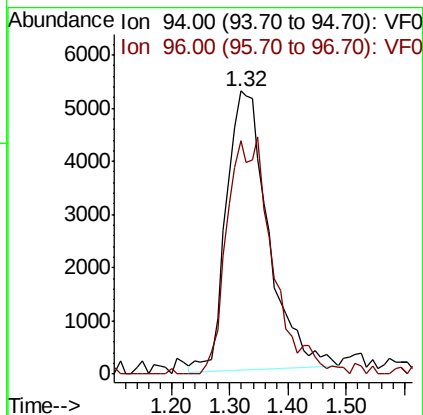
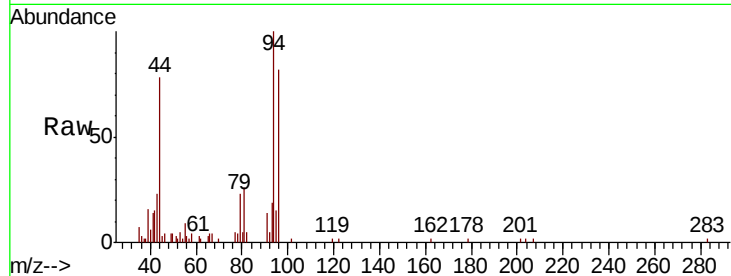
VF1218SBS02

Tot Ion: 94 Resp: 26476

Ion Ratio Lower Upper

94 100

96 82.3 75.9 113.9



#6

Chloroethane

Concen: 26.208 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.00 min

Lab File: VF061059.D

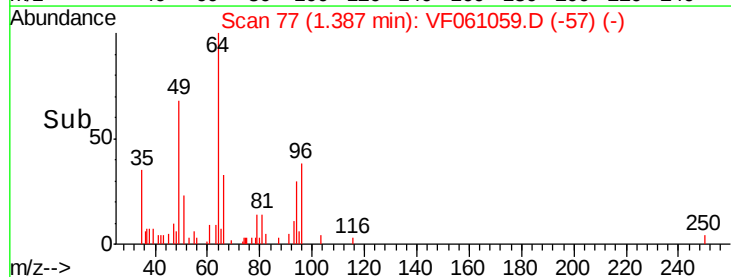
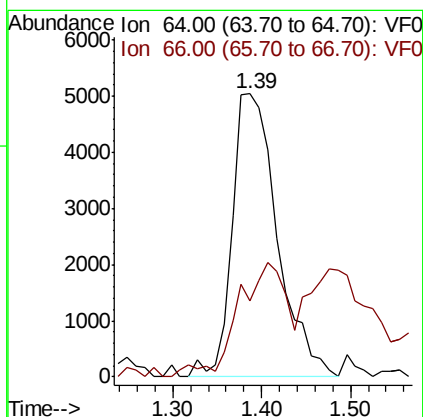
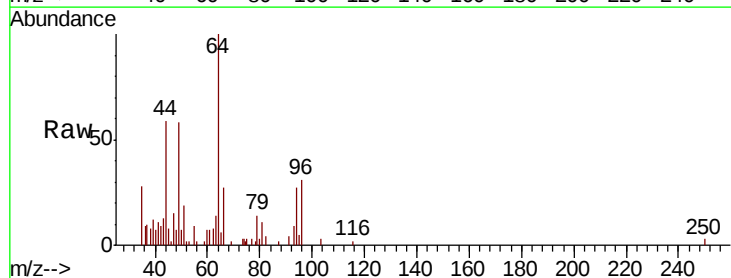
Acq: 18 Dec 2018 13:31

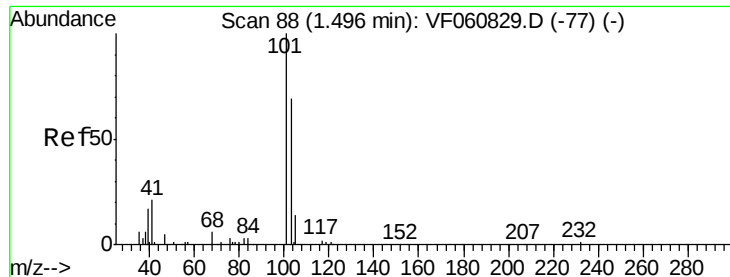
Tgt Ion: 64 Resp: 17825

Ion Ratio Lower Upper

64 100

66 26.8 28.1 42.1#





#7

Trichlorofluoromethane

Concen: 24.250 ug/l

RT: 1.48 min Scan# 86

Delta R.T. -0.02 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

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ClientSampleId :

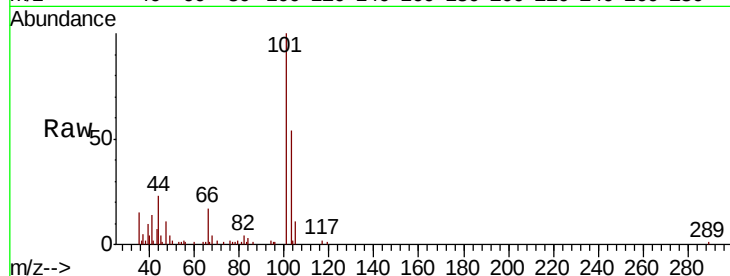
VF1218SBS02

Tot Ion:101 Resp: 81867

Ion Ratio Lower Upper

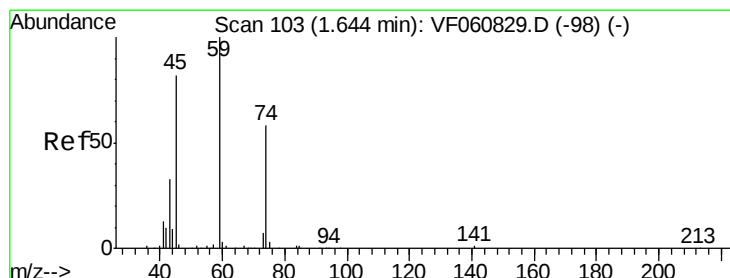
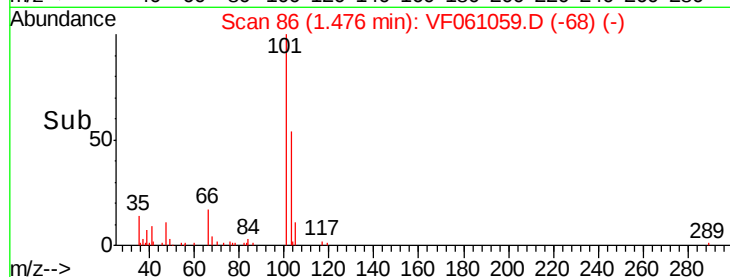
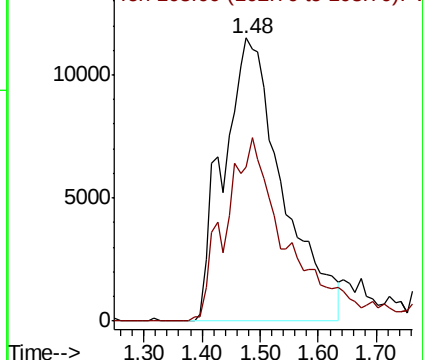
101 100

103 54.3 55.4 83.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 24.672 ug/l

RT: 1.63 min Scan# 102

Delta R.T. -0.01 min

Lab File: VF061059.D

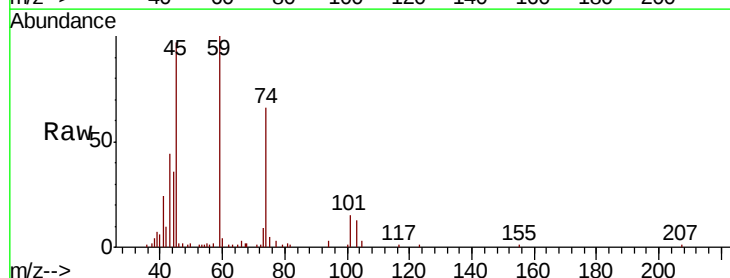
Acq: 18 Dec 2018 13:31

Tgt Ion: 74 Resp: 11977

Ion Ratio Lower Upper

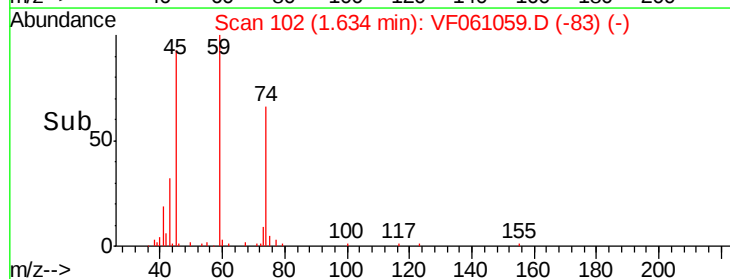
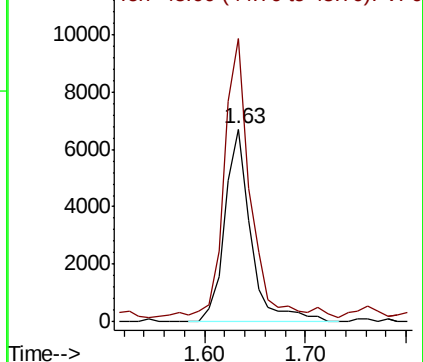
74 100

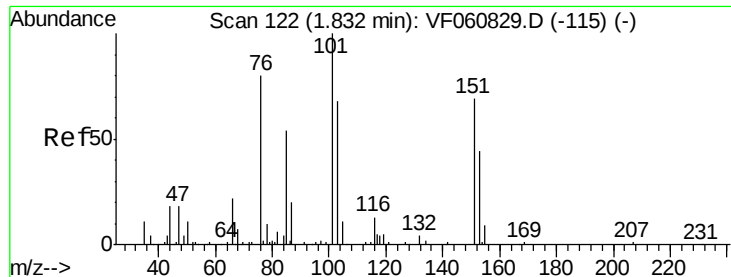
45 146.6 71.0 212.8



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.485 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.00 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA_F

ClientSampleId :

VF1218SBS02

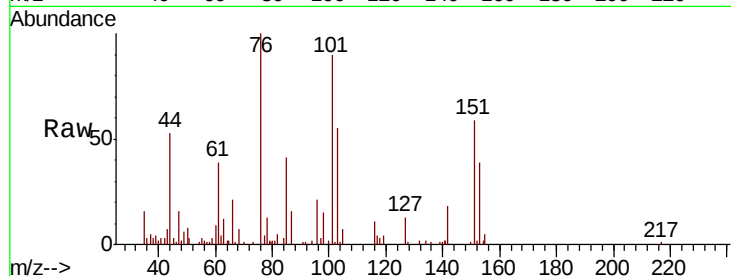
Tot Ion:101 Resp: 40081

Ion Ratio Lower Upper

101 100

85 45.3 42.8 64.2

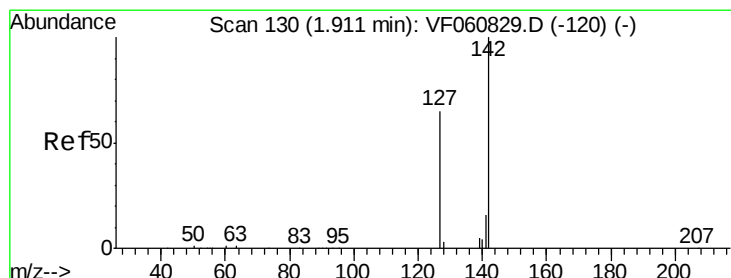
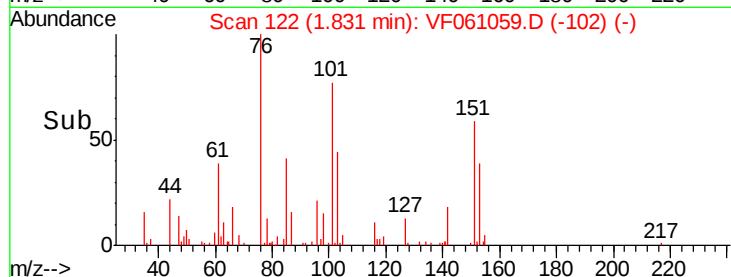
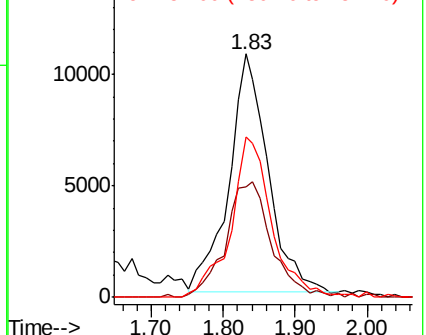
151 66.0 54.4 81.6



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: 20.800 ug/l

RT: 1.90 min Scan# 129

Delta R.T. -0.01 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

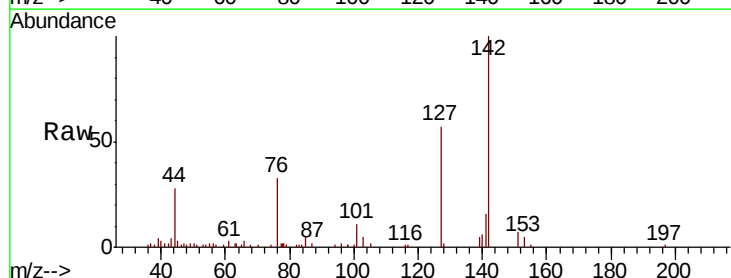
Tgt Ion:142 Resp: 53958

Ion Ratio Lower Upper

142 100

127 57.0 51.9 77.9

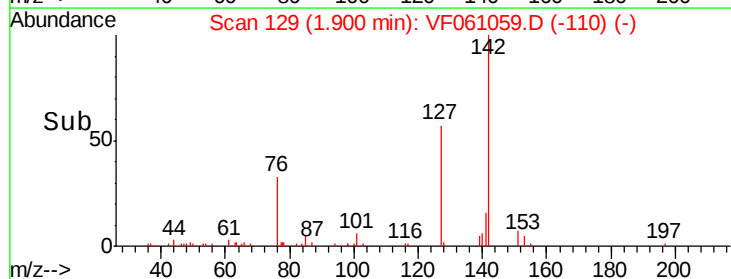
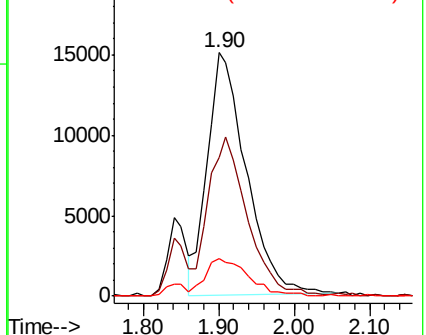
141 15.6 12.7 19.1

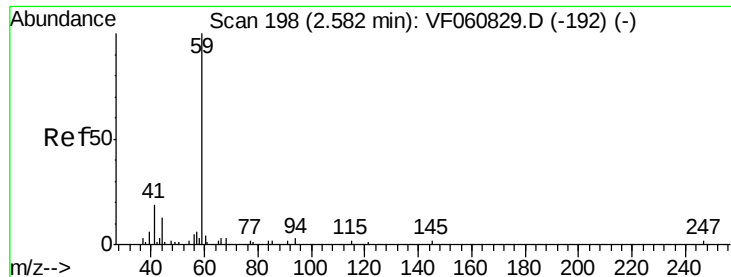


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

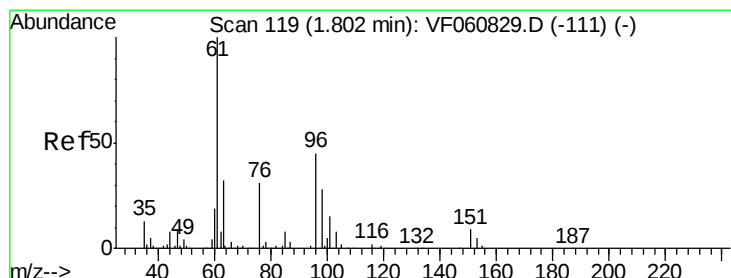
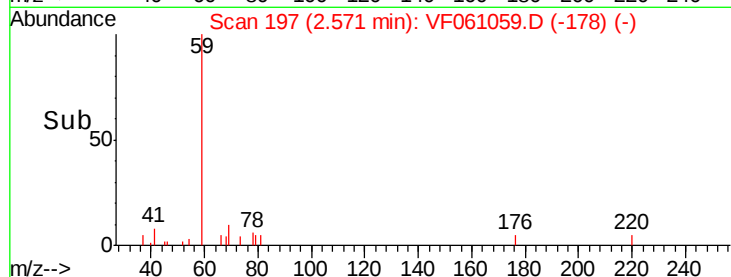
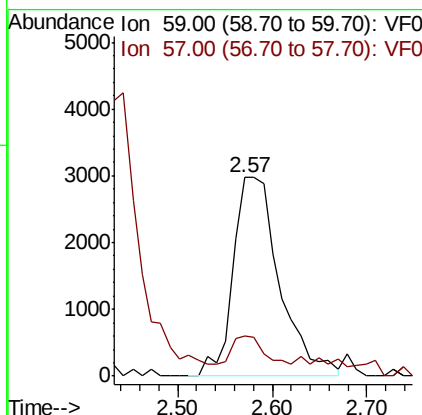
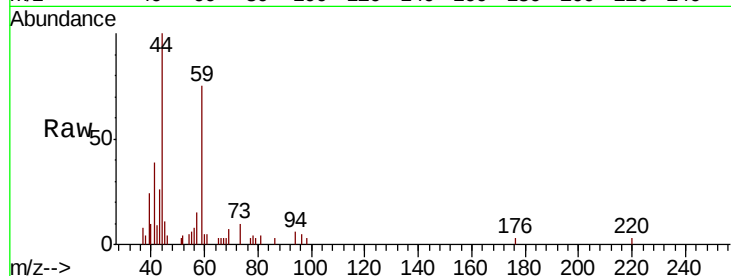




#11
Tert butyl alcohol
Concen: 121.356 ug/l
RT: 2.57 min Scan# 197
Delta R.T. -0.01 min
Lab File: VF061059.D
Acq: 18 Dec 2018 13:31

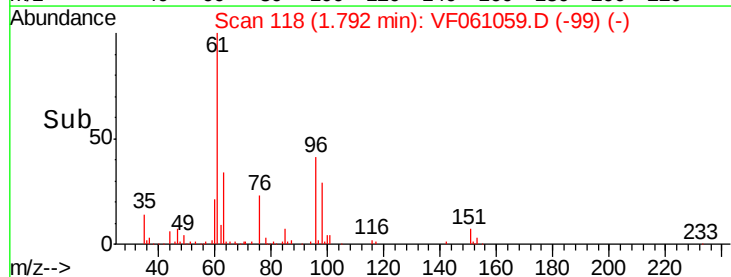
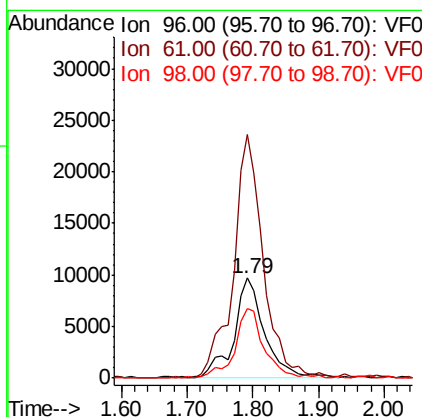
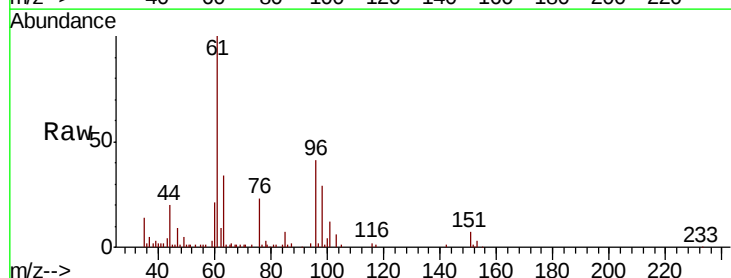
Instrument :
MSVOA_F
ClientSampleId :
VF1218SBS02

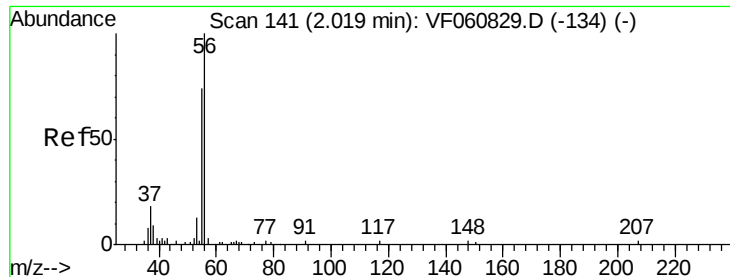
Tot Ion: 59 Resp: 10160
Ion Ratio Lower Upper
59 100
57 20.3 12.7 19.1#



#12
1,1-Dichloroethene
Concen: 23.164 ug/l
RT: 1.79 min Scan# 118
Delta R.T. -0.01 min
Lab File: VF061059.D
Acq: 18 Dec 2018 13:31

Tgt Ion: 96 Resp: 31799
Ion Ratio Lower Upper
96 100
61 244.1 177.3 265.9
98 69.9 49.6 74.4





#13

Acrolein

Concen: 83.747 ug/l

RT: 2.01 min Scan# 140

Delta R.T. -0.01 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA_F

ClientSampleId :

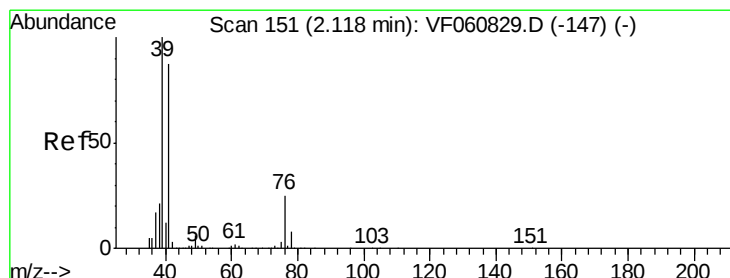
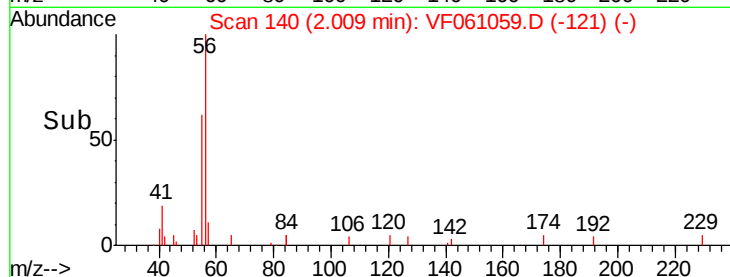
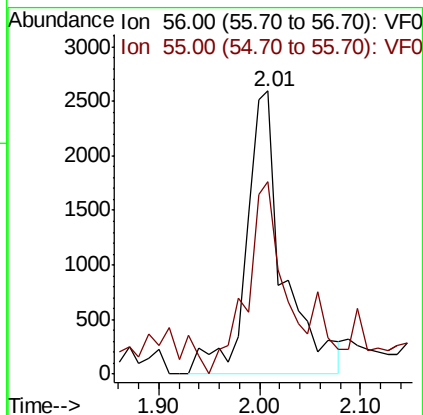
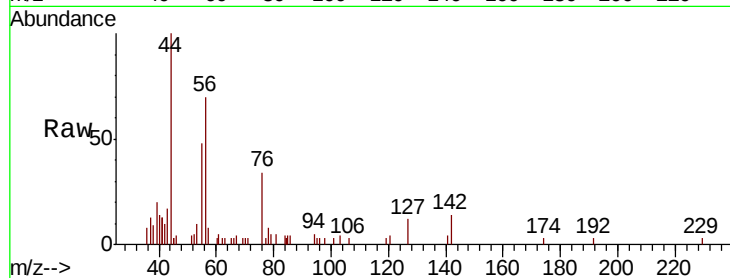
VF1218SBS02

Tot Ion: 56 Resp: 6643

Ion Ratio Lower Upper

56 100

55 68.2 61.2 91.8



#14

Allyl chloride

Concen: 22.112 ug/l

RT: 2.10 min Scan# 149

Delta R.T. -0.02 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

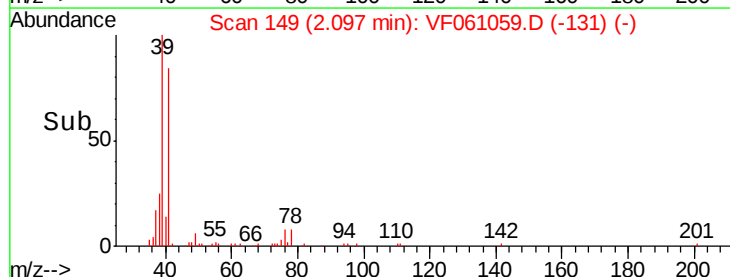
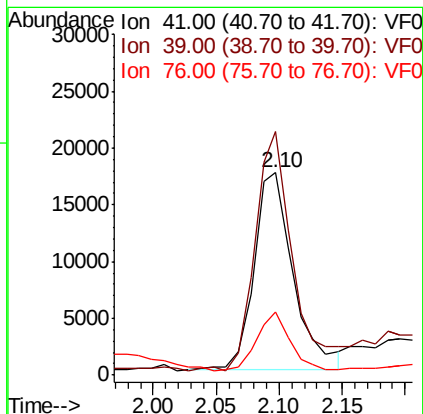
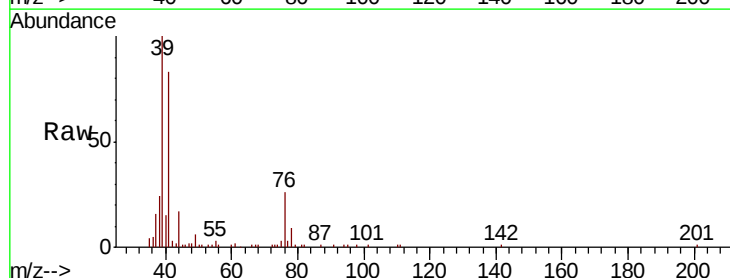
Tgt Ion: 41 Resp: 37834

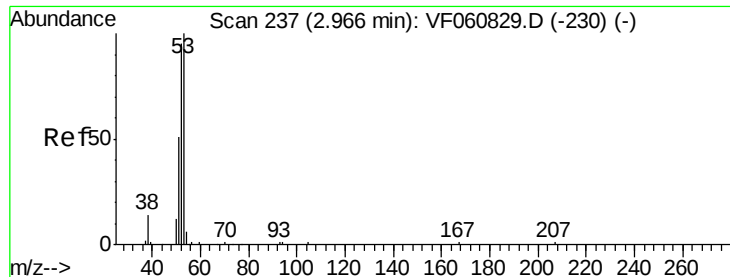
Ion Ratio Lower Upper

41 100

39 120.4 91.7 137.5

76 31.0 23.5 35.3





#15

Acrylonitrile

Concen: 124.399 ug/l

RT: 2.95 min Scan# 235

Delta R.T. -0.02 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA_F

ClientSampleId :

VF1218SBS02

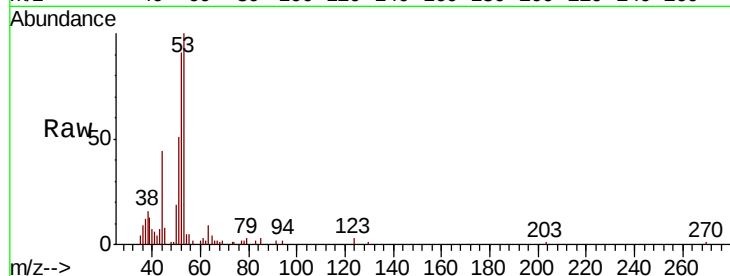
Tot Ion: 53 Resp: 23349

Ion Ratio Lower Upper

53 100

52 91.1 76.5 114.7

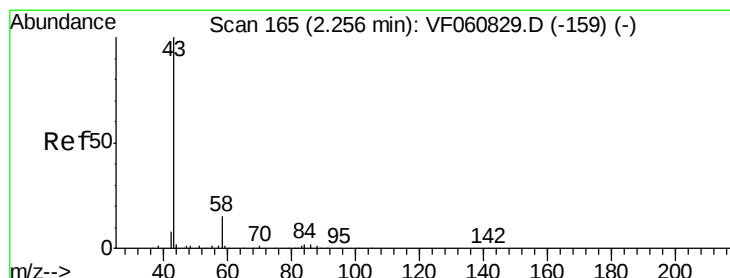
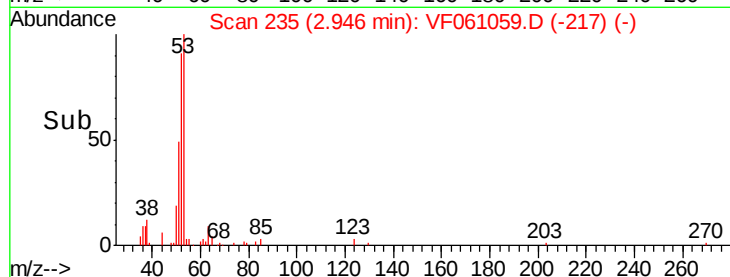
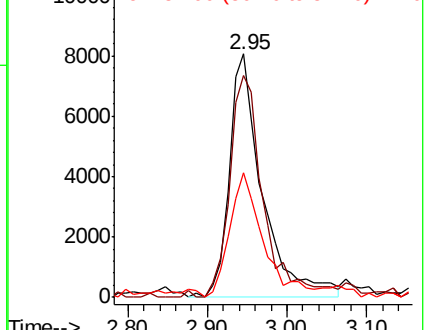
51 51.2 40.7 61.1



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: 135.418 ug/l

RT: 2.25 min Scan# 164

Delta R.T. -0.01 min

Lab File: VF061059.D

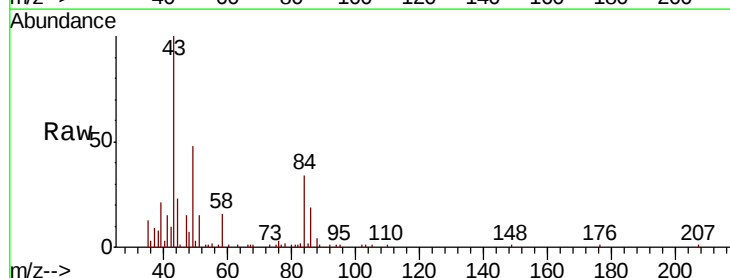
Acq: 18 Dec 2018 13:31

Tgt Ion: 43 Resp: 51001

Ion Ratio Lower Upper

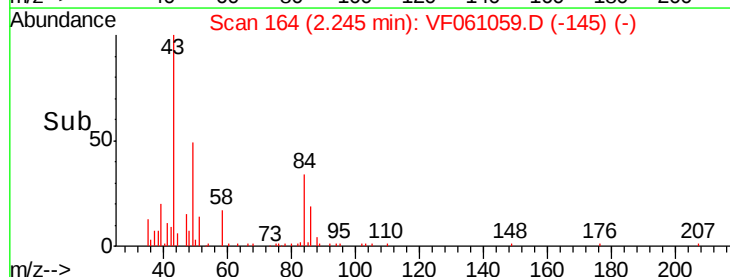
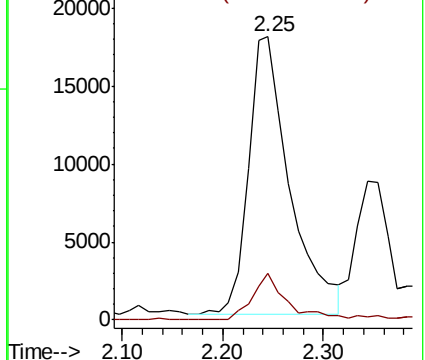
43 100

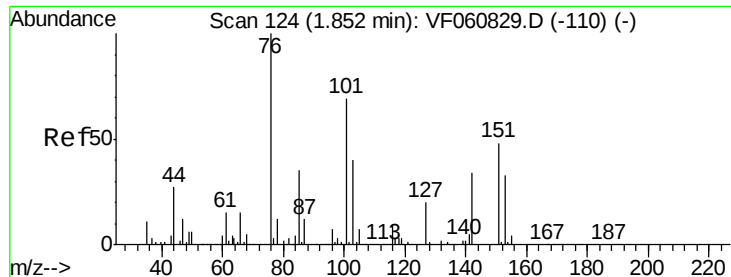
58 16.3 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

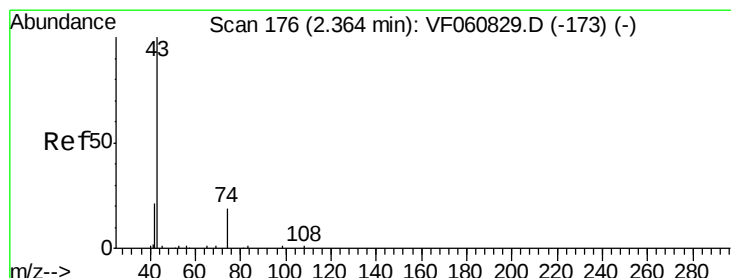
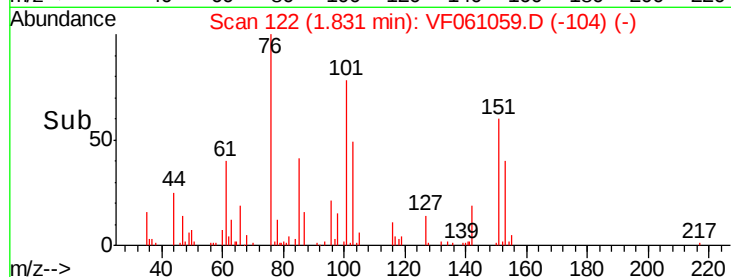
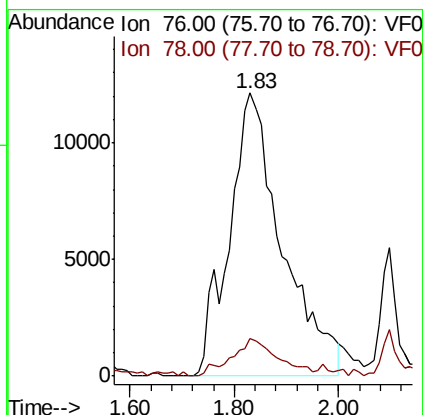
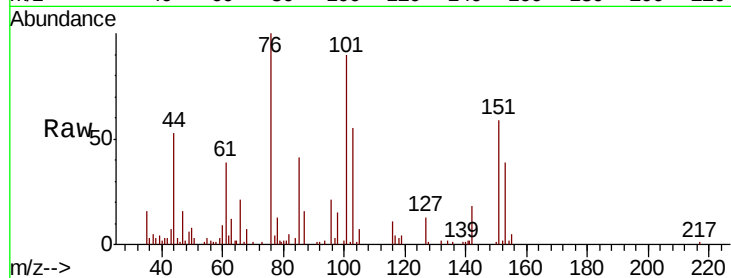




#17
Carbon Disulfide
Concen: 22.950 ug/l
RT: 1.83 min Scan# 122
Delta R.T. -0.02 min
Lab File: VF061059.D
Acq: 18 Dec 2018 13:31

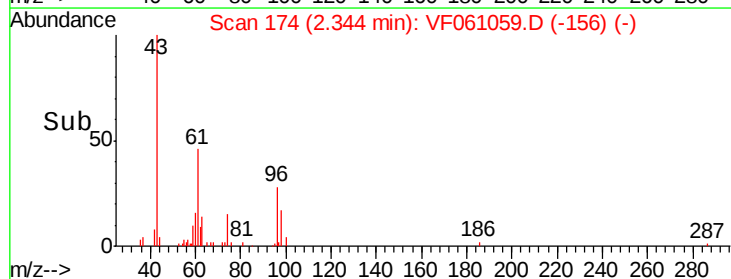
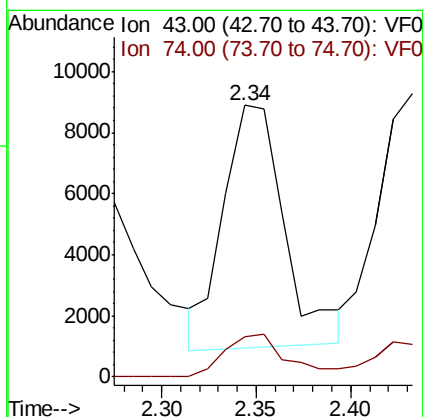
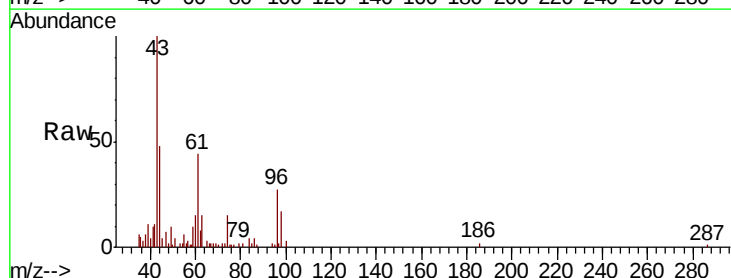
Instrument :
MSVOA_F
ClientSampleId :
VF1218SBS02

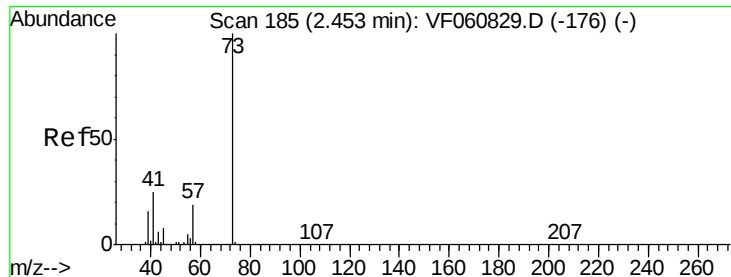
Tot Ion: 76 Resp: 84471
Ion Ratio Lower Upper
76 100
78 13.1 10.2 15.2



#18
Methyl Acetate
Concen: 27.604 ug/l
RT: 2.34 min Scan# 174
Delta R.T. -0.02 min
Lab File: VF061059.D
Acq: 18 Dec 2018 13:31

Tgt Ion: 43 Resp: 17909
Ion Ratio Lower Upper
43 100
74 14.8 13.3 19.9



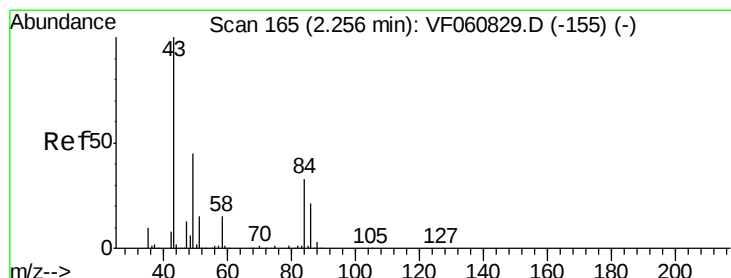
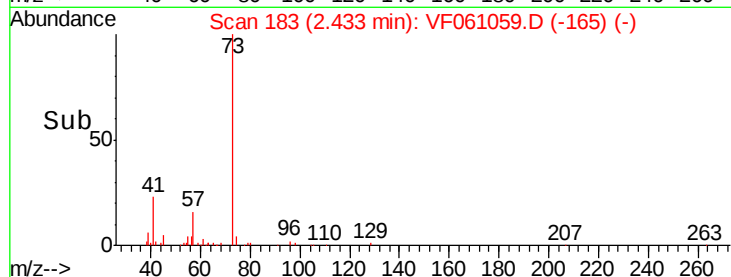
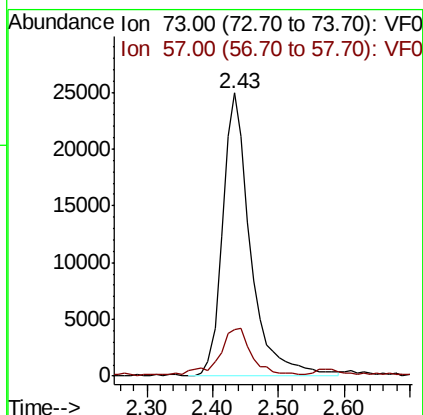
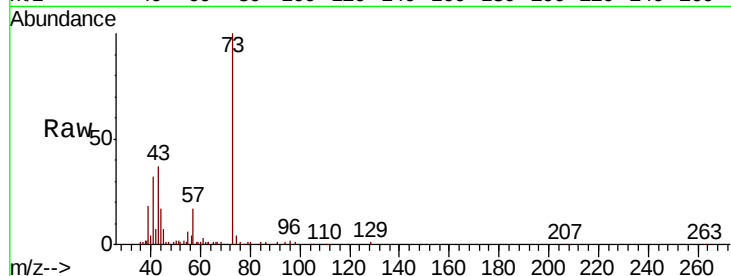


#19

Methyl tert-butyl Ether
 Concen: 23.921 ug/l
 RT: 2.43 min Scan# 183
 Delta R.T. -0.02 min
 Lab File: VF061059.D
 Acq: 18 Dec 2018 13:31

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1218SBS02

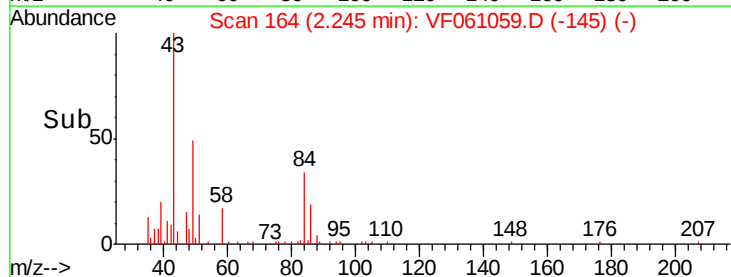
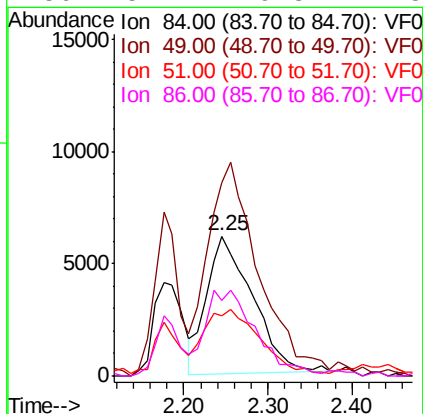
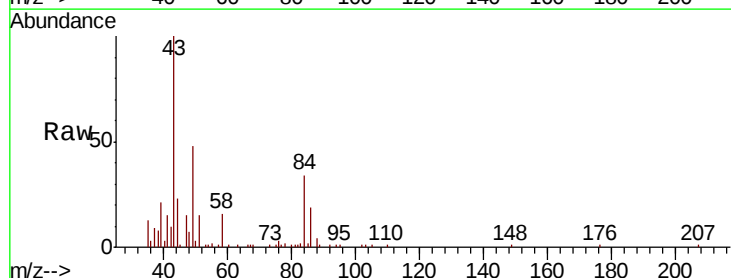
Tot Ion: 73 Resp: 73958
 Ion Ratio Lower Upper
 73 100
 57 16.6 15.3 22.9

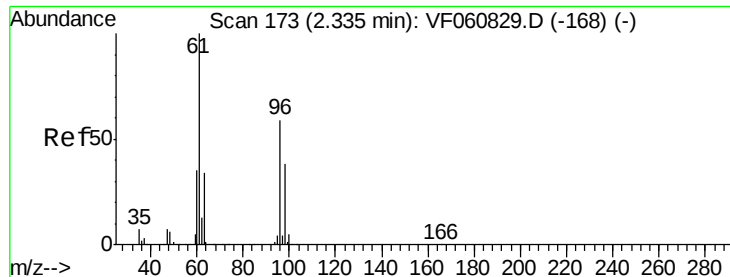


#20

Methylene Chloride
 Concen: 16.927 ug/l
 RT: 2.25 min Scan# 164
 Delta R.T. -0.01 min
 Lab File: VF061059.D
 Acq: 18 Dec 2018 13:31

Tgt Ion: 84 Resp: 23387
 Ion Ratio Lower Upper
 84 100
 49 138.6 111.3 166.9
 51 43.1 38.0 57.0
 86 54.4 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 18.492 ug/l

RT: 2.30 min Scan# 170

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA_F

ClientSampleId :

VF1218SBS02

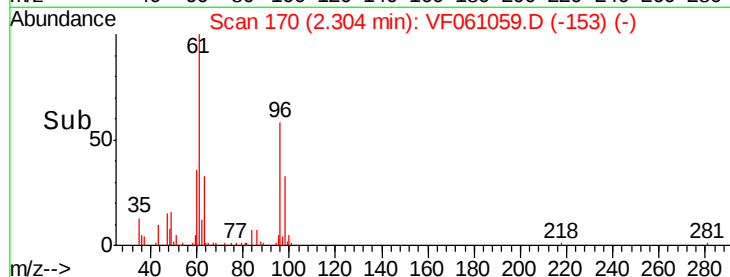
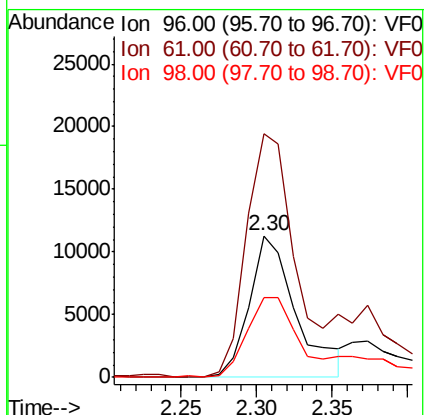
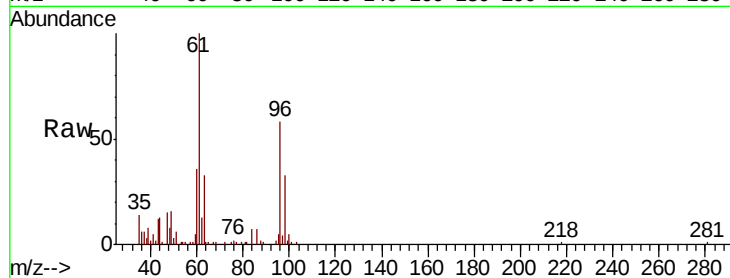
Tot Ion: 96 Resp: 24473

Ion Ratio Lower Upper

96 100

61 172.0 134.5 201.7

98 56.4 51.6 77.4



#22

Diisopropyl ether

Concen: 25.076 ug/l

RT: 2.80 min Scan# 220

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Tgt Ion: 45 Resp: 116789

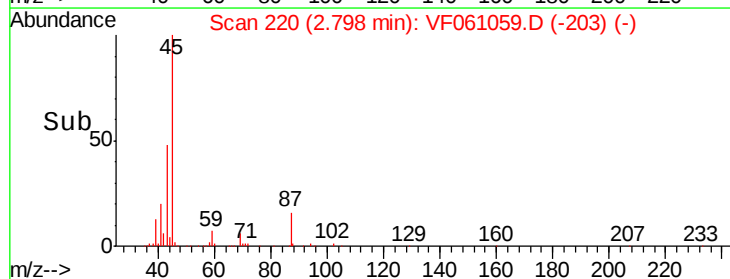
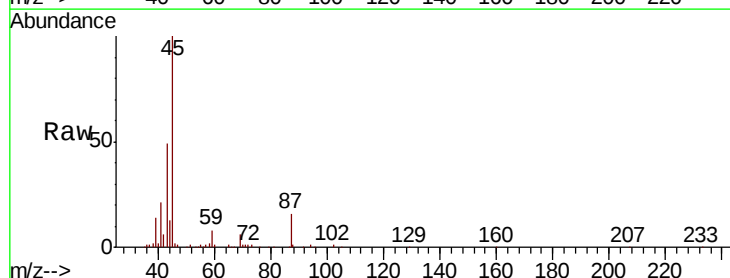
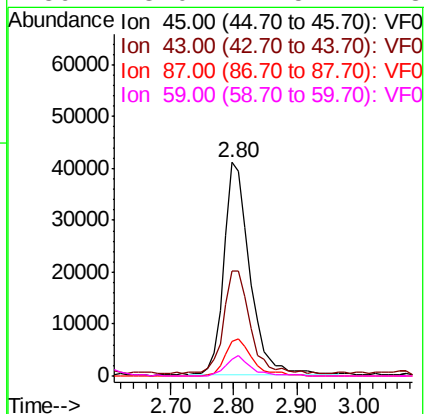
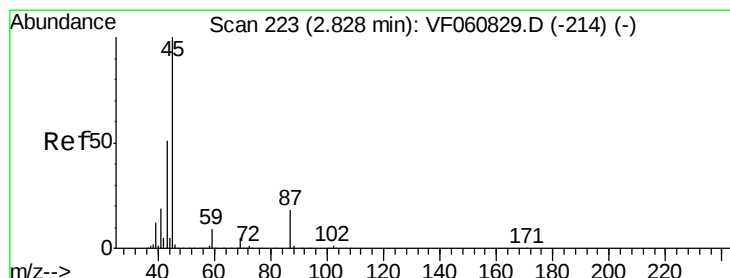
Ion Ratio Lower Upper

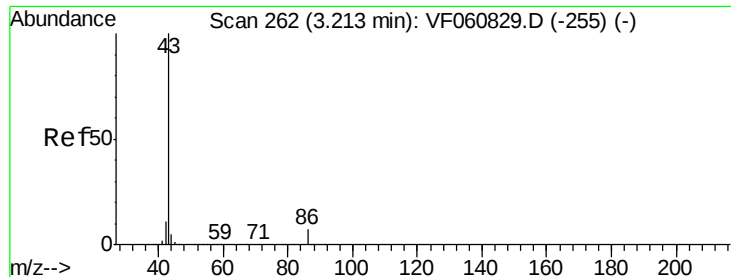
45 100

43 49.3 41.0 61.6

87 15.9 14.6 22.0

59 8.0 7.5 11.3





#23

Vinyl Acetate

Concen: 125.506 ug/l

RT: 3.19 min Scan# 260

Delta R.T. -0.02 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA_F

ClientSampleId :

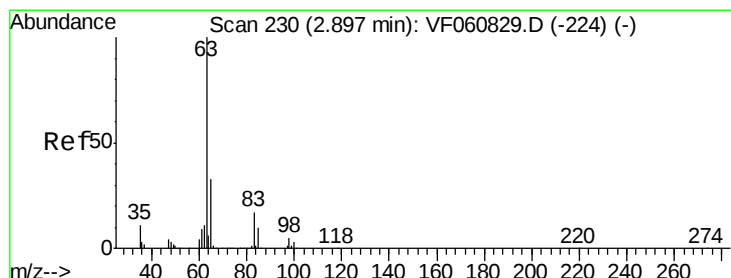
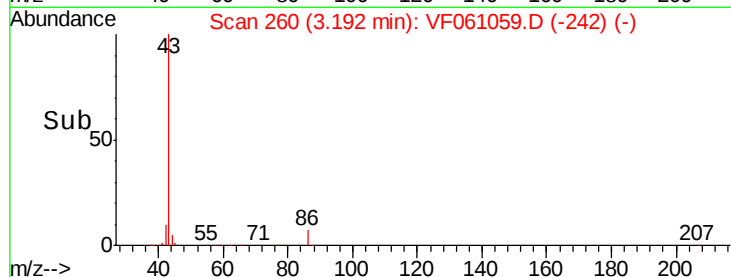
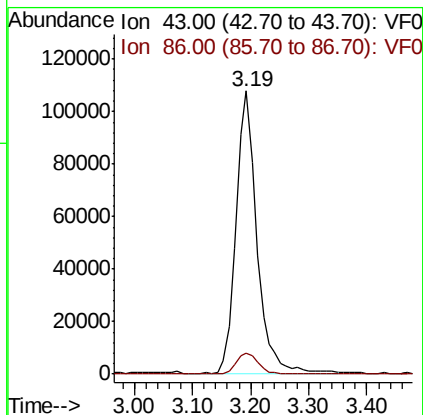
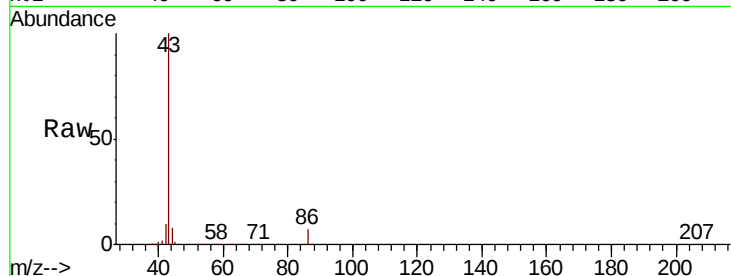
VF1218SBS02

Tot Ion: 43 Resp: 267191

Ion Ratio Lower Upper

43 100

86 7.3 5.4 8.0



#24

1,1-Dichloroethane

Concen: 24.793 ug/l

RT: 2.87 min Scan# 227

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

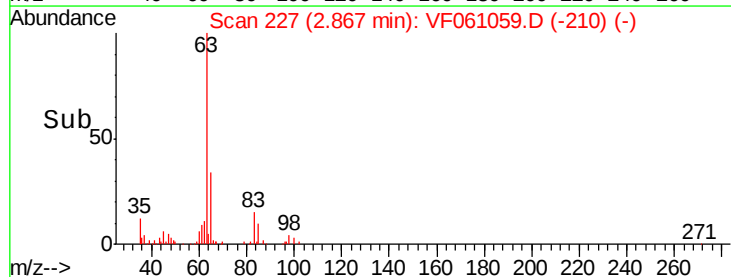
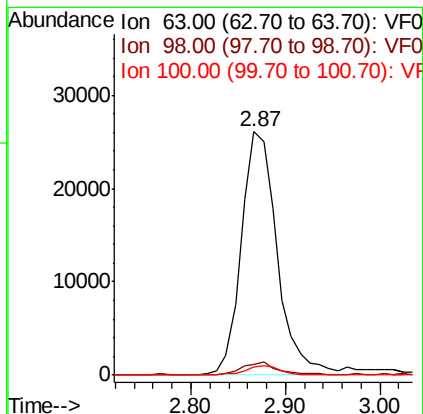
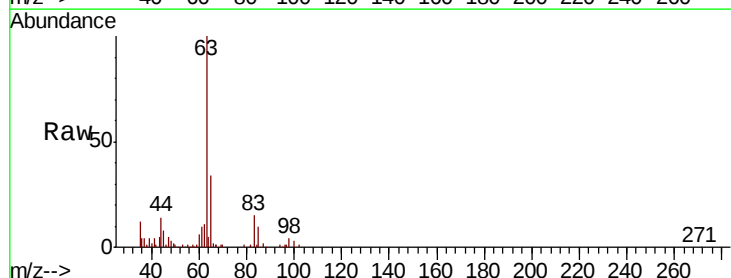
Tgt Ion: 63 Resp: 68701

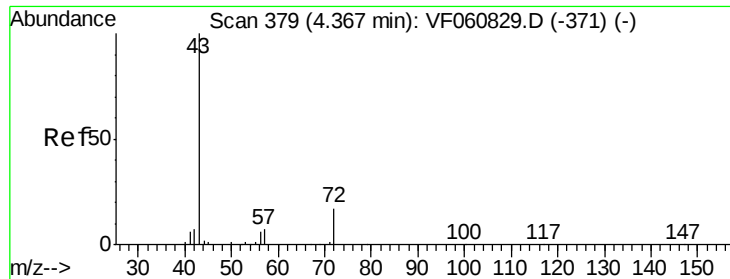
Ion Ratio Lower Upper

63 100

98 4.1 2.7 8.1

100 3.4 1.5 4.5





#25

2-Butanone

Concen: 129.517 ug/l

RT: 4.34 min Scan# 376

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA_F

ClientSampleId :

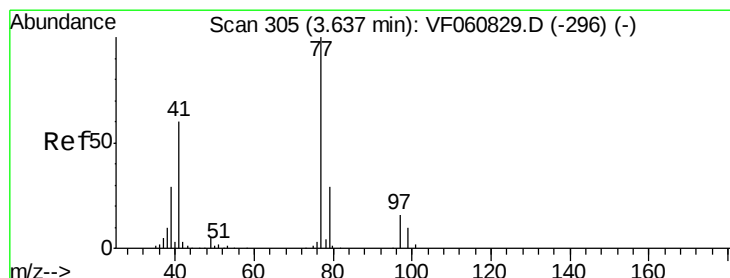
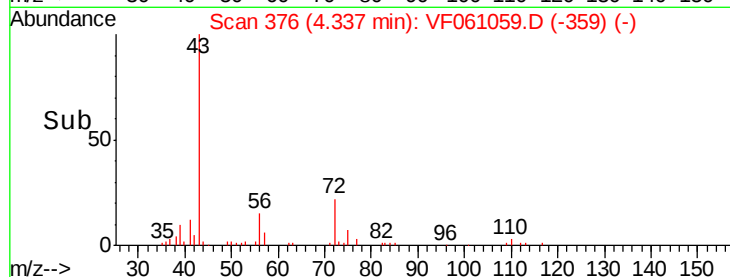
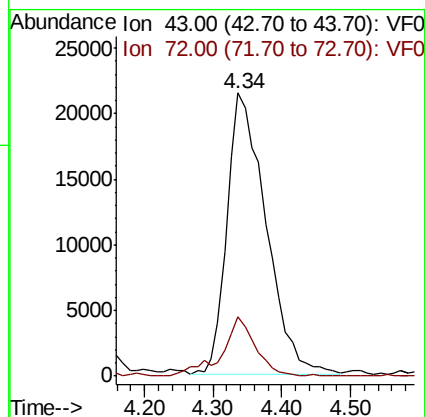
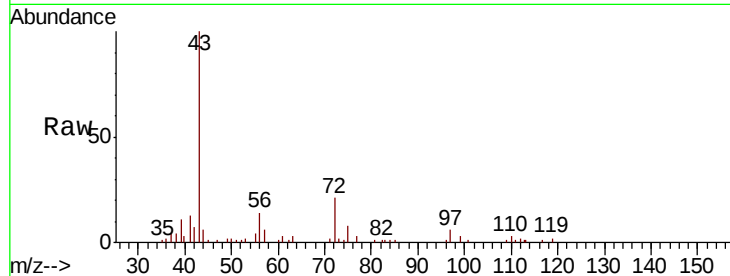
VF1218SBS02

Tot Ion: 43 Resp: 84370

Ion Ratio Lower Upper

43 100

72 20.8 15.4 23.2



#26

2,2-Dichloropropane

Concen: 22.827 ug/l

RT: 3.60 min Scan# 301

Delta R.T. -0.04 min

Lab File: VF061059.D

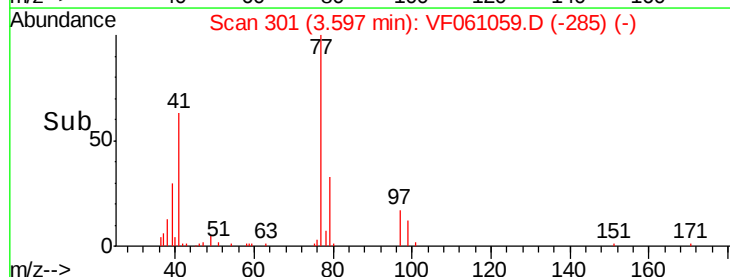
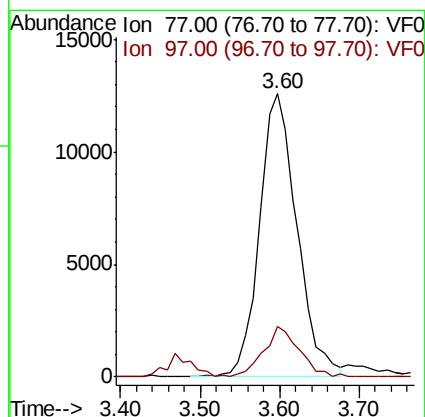
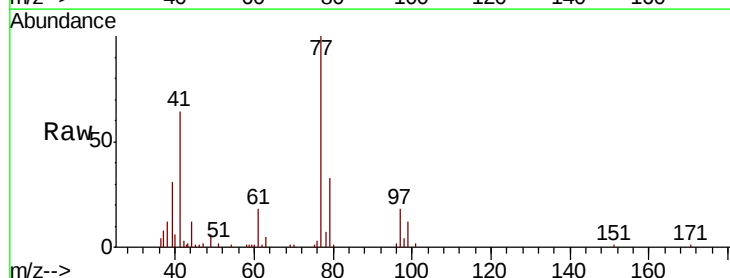
Acq: 18 Dec 2018 13:31

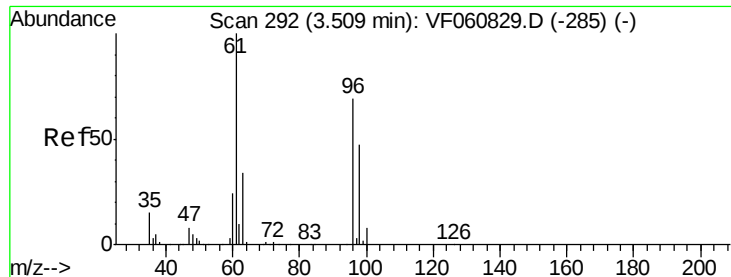
Tgt Ion: 77 Resp: 41007

Ion Ratio Lower Upper

77 100

97 17.8 8.6 25.8



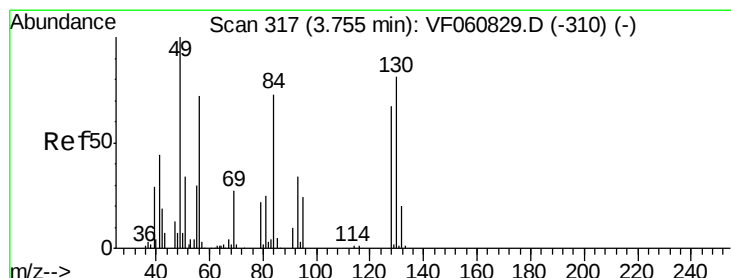
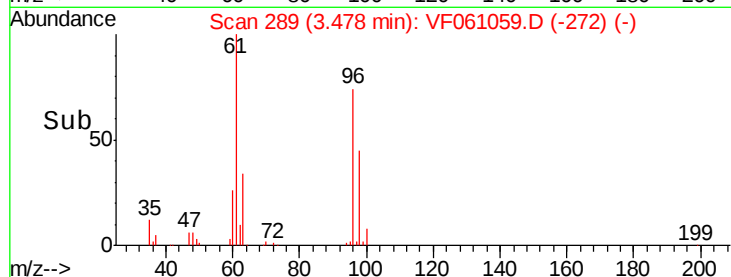
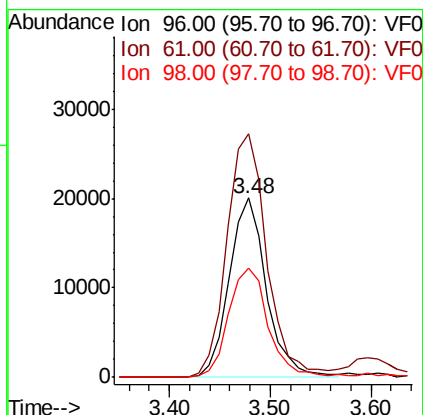
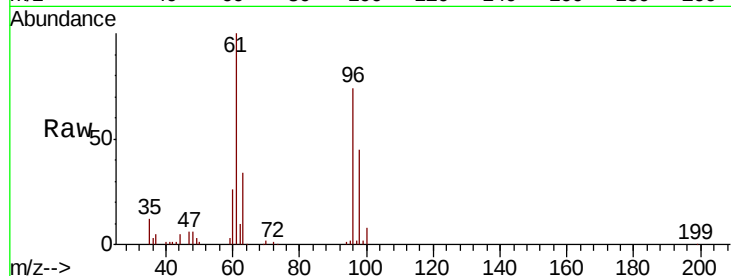


#27

cis-1,2-Dichloroethene
 Concen: 23.972 ug/l
 RT: 3.48 min Scan# 289
 Delta R.T. -0.03 min
 Lab File: VF061059.D
 Acq: 18 Dec 2018 13:31

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1218SBS02

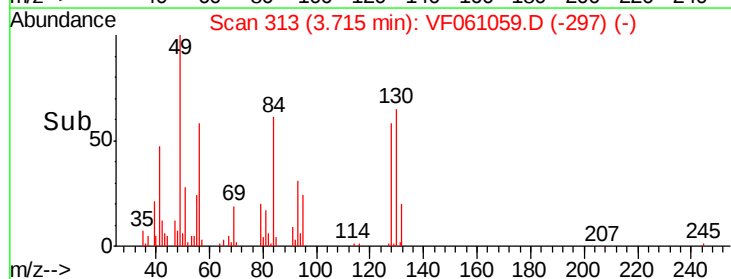
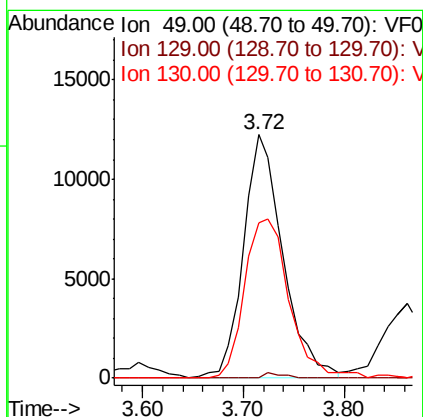
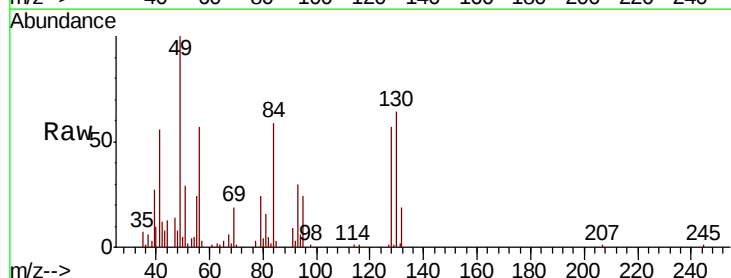
Tot Ion	96	Resp	51649
Ion	Ratio	Lower	Upper
96	100		
61	135.8	0.0	290.6
98	60.7	0.0	137.8

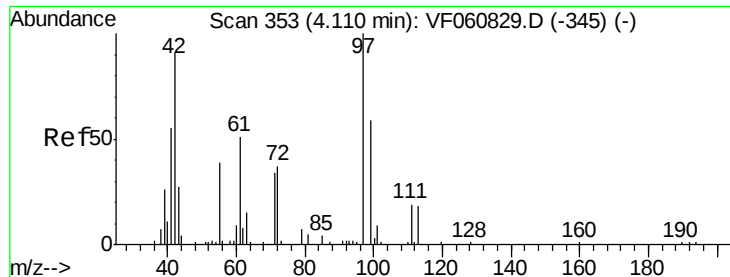


#28

Bromochloromethane
 Concen: 25.206 ug/l
 RT: 3.72 min Scan# 313
 Delta R.T. -0.04 min
 Lab File: VF061059.D
 Acq: 18 Dec 2018 13:31

Tgt Ion	49	Resp	33520
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.4
130	63.6	64.2	96.4#





#29

Tetrahydrofuran

Concen: 116.844 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.02 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA_F

ClientSampleId :

VF1218SBS02

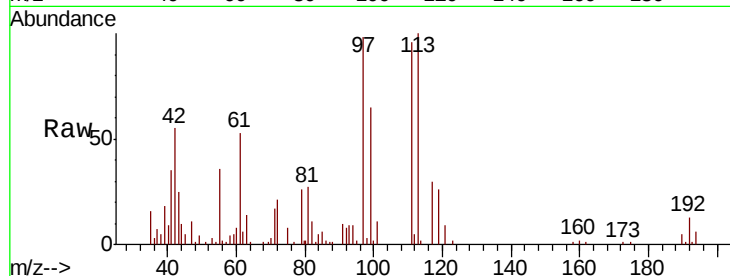
Tot Ion: 42 Resp: 32264

Ion Ratio Lower Upper

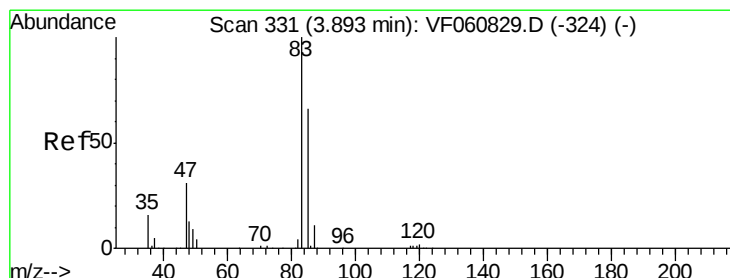
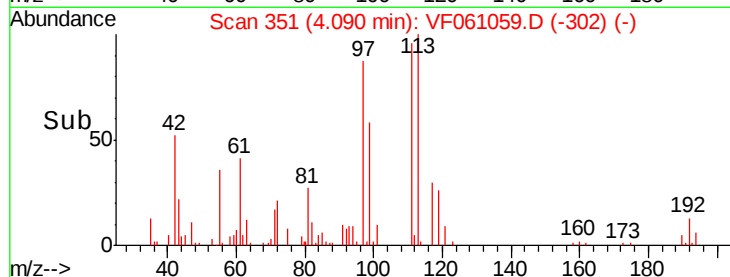
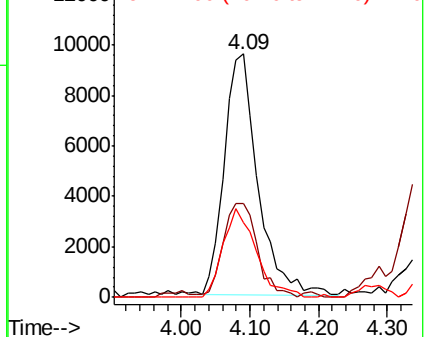
42 100

72 40.0 31.9 47.9

71 36.1 28.7 43.1



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: 24.623 ug/l

RT: 3.86 min Scan# 328

Delta R.T. -0.03 min

Lab File: VF061059.D

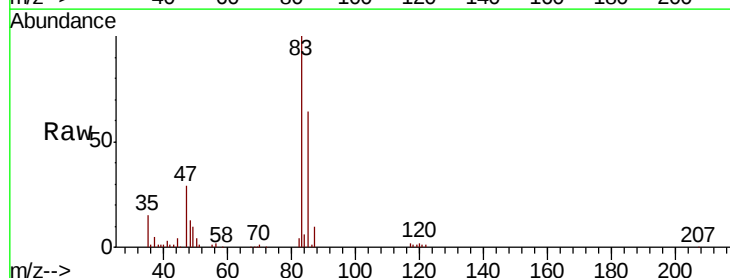
Acq: 18 Dec 2018 13:31

Tgt Ion: 83 Resp: 105008

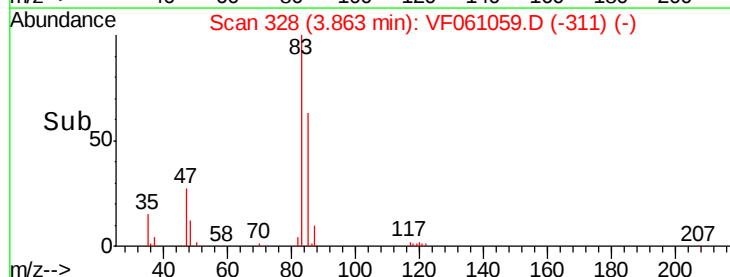
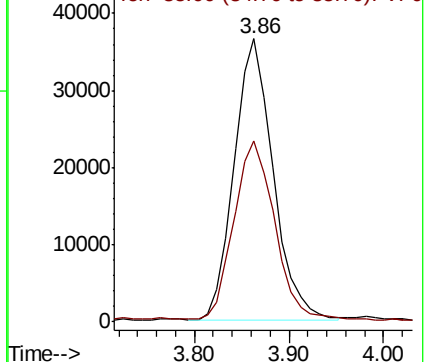
Ion Ratio Lower Upper

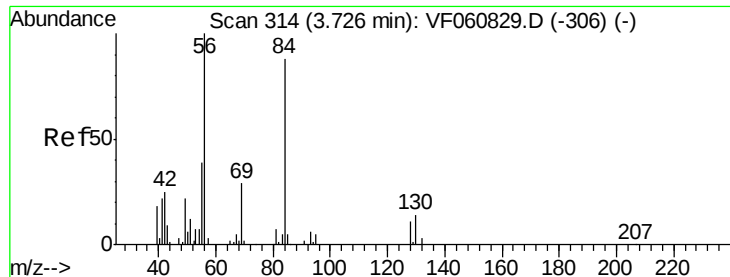
83 100

85 64.0 53.4 80.2



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 85.00 (84.70 to 85.70): VF0

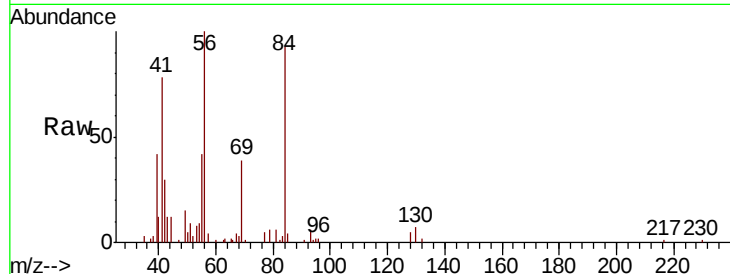




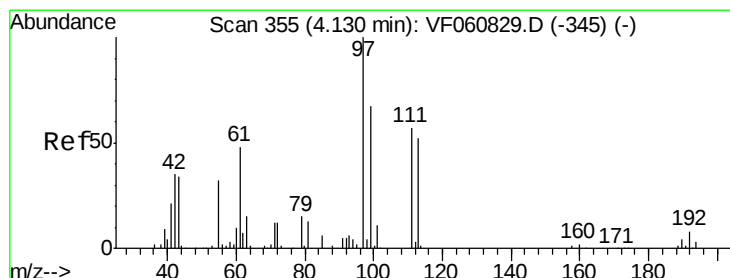
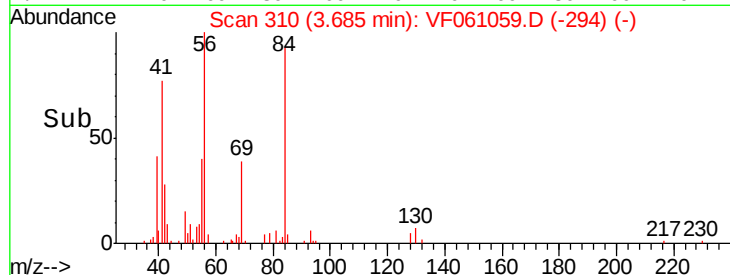
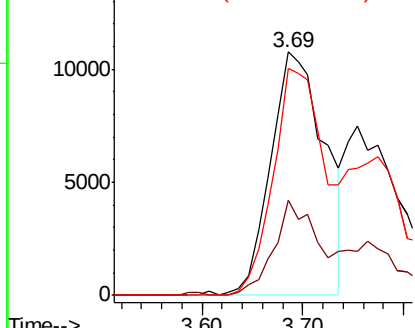
#31
Cyclohexane
Concen: 13.902 ug/l
RT: 3.69 min Scan# 310
Delta R.T. -0.04 min
Lab File: VF061059.D
Acq: 18 Dec 2018 13:31

Instrument :
MSVOA_F
ClientSampleId :
VF1218SBS02

Tot Ion: 56 Resp: 39978
Ion Ratio Lower Upper
56 100
69 38.8 23.0 34.4#
84 93.5 70.4 105.6

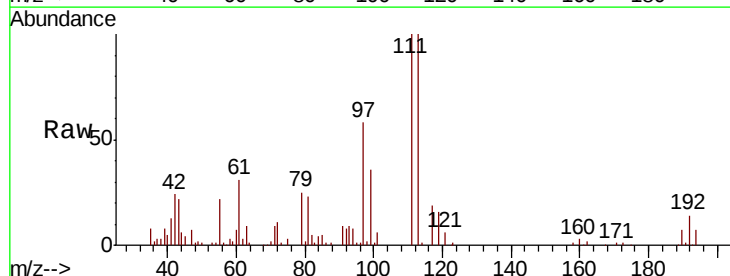


Abundance Ion 56.00 (55.70 to 56.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 84.00 (83.70 to 84.70): VF0

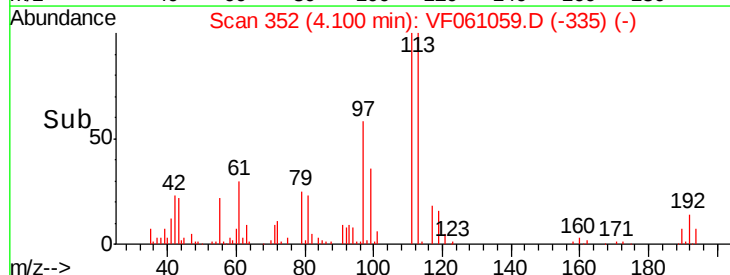
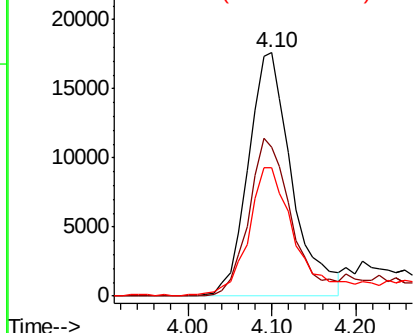


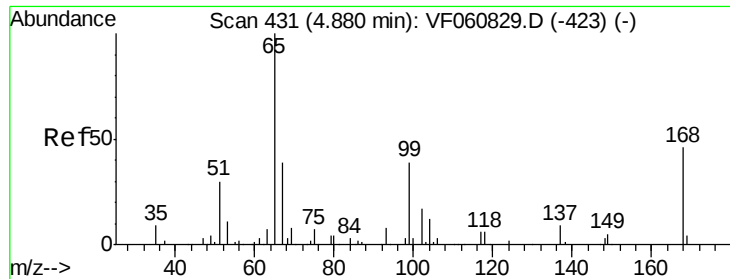
#32
1,1,1-Trichloroethane
Concen: 21.699 ug/l
RT: 4.10 min Scan# 352
Delta R.T. -0.03 min
Lab File: VF061059.D
Acq: 18 Dec 2018 13:31

Tgt Ion: 97 Resp: 64178
Ion Ratio Lower Upper
97 100
99 61.3 53.5 80.3
61 52.6 38.6 58.0



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: 58.543 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA_F

ClientSampleId :

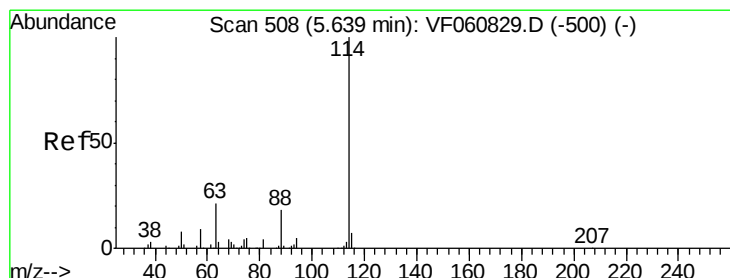
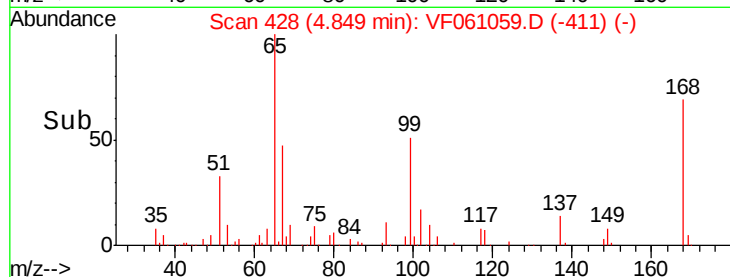
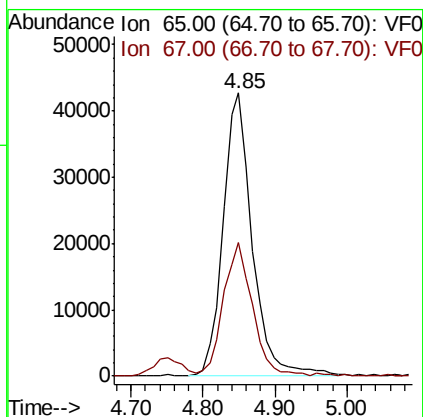
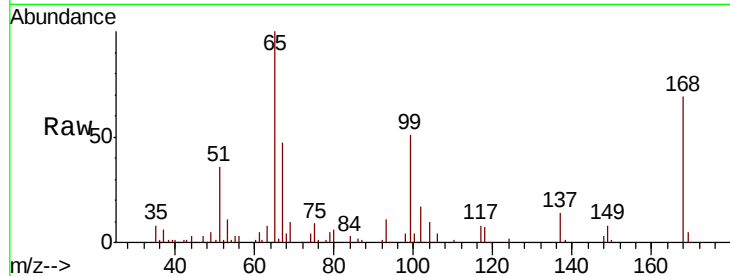
VF1218SBS02

Tot Ion: 65 Resp: 119565

Ion Ratio Lower Upper

65 100

67 47.3 0.0 96.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. -0.04 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

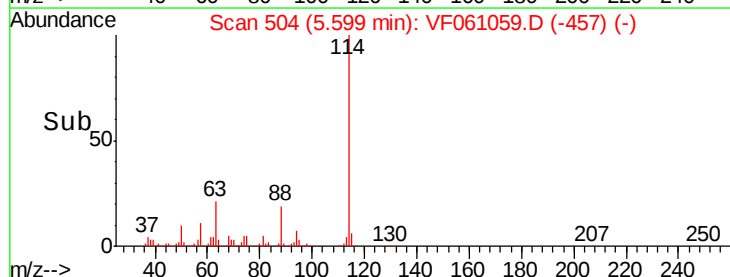
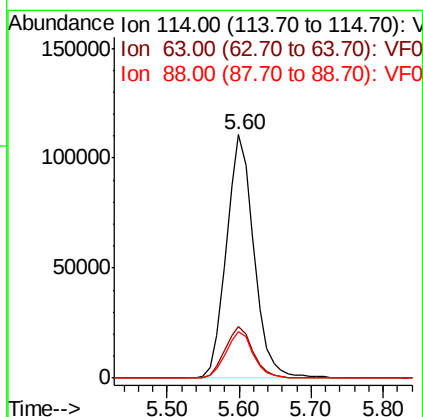
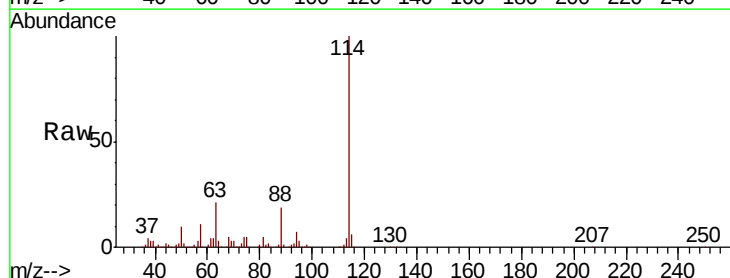
Tgt Ion: 114 Resp: 294312

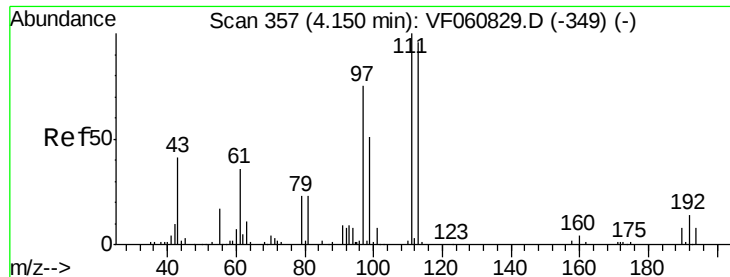
Ion Ratio Lower Upper

114 100

63 21.3 0.0 41.6

88 19.0 0.0 36.6

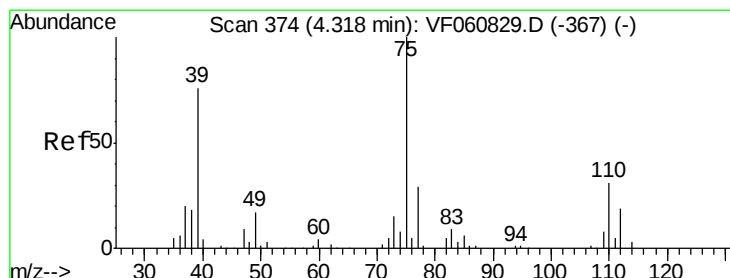
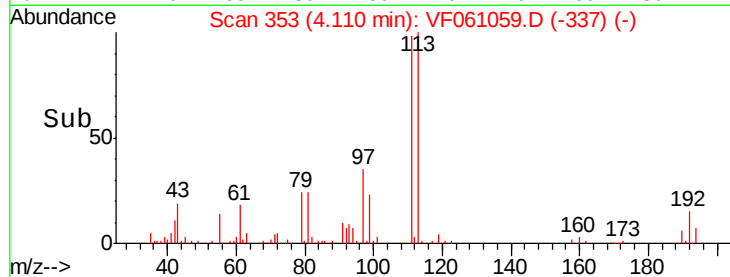
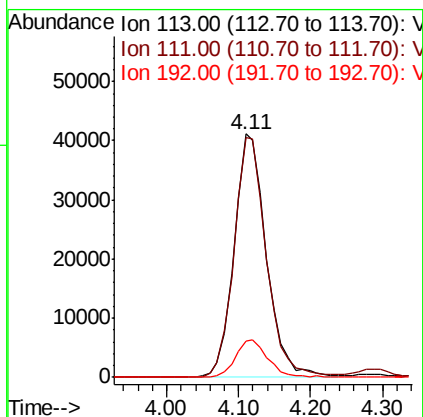
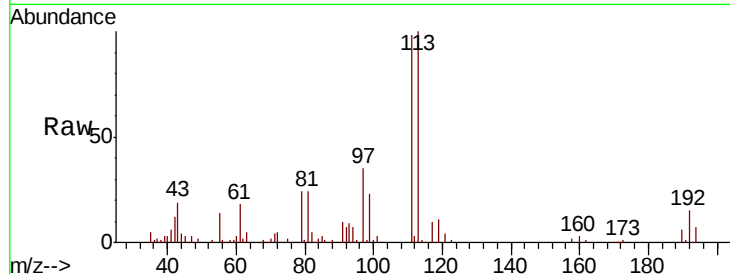




#35
 Dibromofluoromethane
 Concen: 55.023 ug/l
 RT: 4.11 min Scan# 353
 Delta R.T. -0.04 min
 Lab File: VF061059.D
 Acq: 18 Dec 2018 13:31

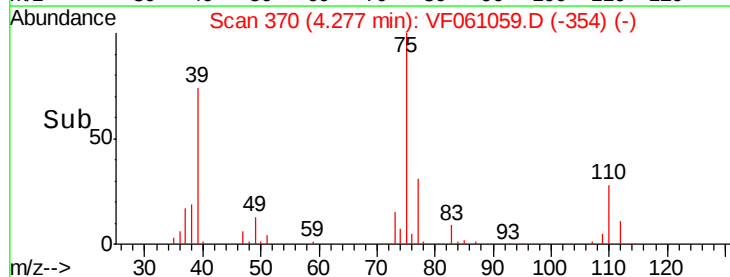
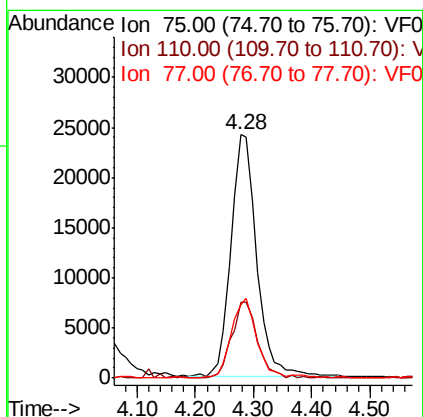
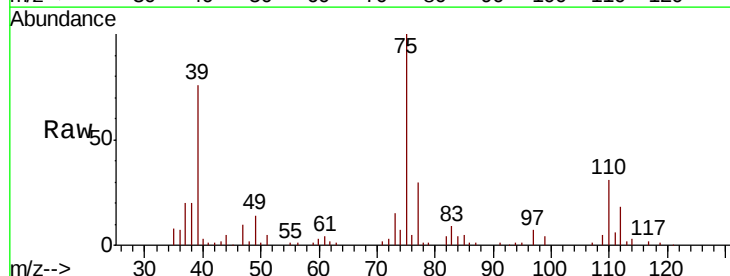
Instrument :
 MSVOA_F
 ClientSampleId :
 VF1218SBS02

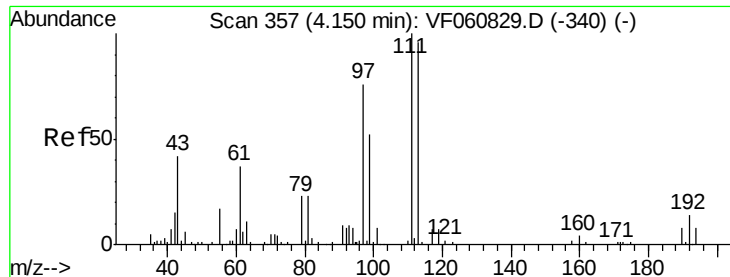
Tot Ion:113 Resp: 128471
 Ion Ratio Lower Upper
 113 100
 111 98.4 83.0 124.6
 192 14.7 12.3 18.5



#36
 1,1-Dichloropropene
 Concen: 23.064 ug/l
 RT: 4.28 min Scan# 370
 Delta R.T. -0.04 min
 Lab File: VF061059.D
 Acq: 18 Dec 2018 13:31

Tgt Ion: 75 Resp: 75290
 Ion Ratio Lower Upper
 75 100
 110 31.3 15.6 46.8
 77 30.2 23.4 35.0

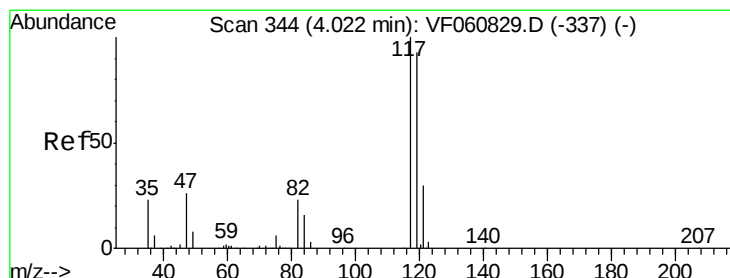
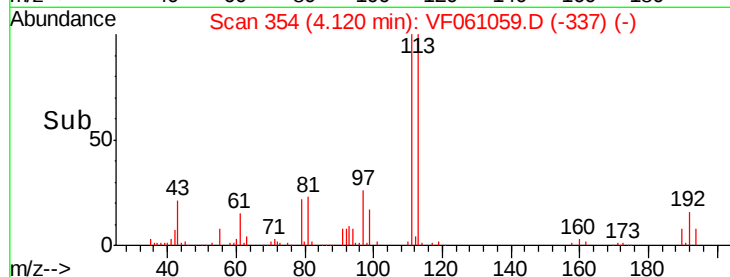
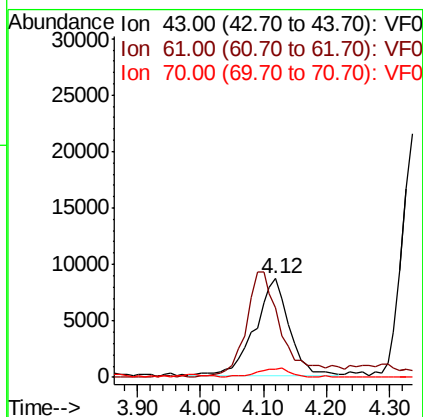
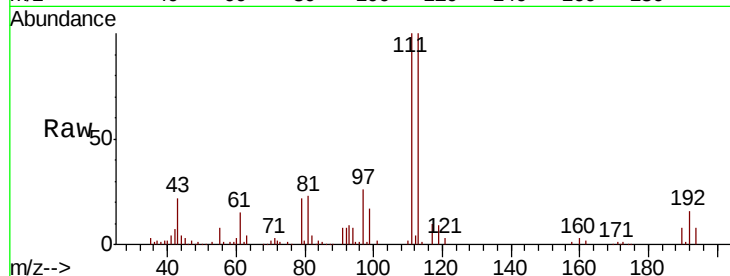




#37
Ethyl Acetate
Concen: 24.587 ug/l
RT: 4.12 min Scan# 354
Delta R.T. -0.03 min
Lab File: VF061059.D
Acq: 18 Dec 2018 13:31

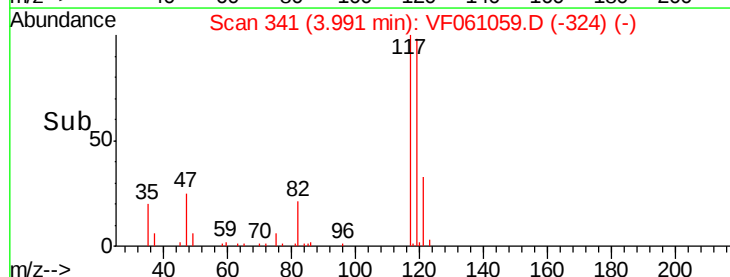
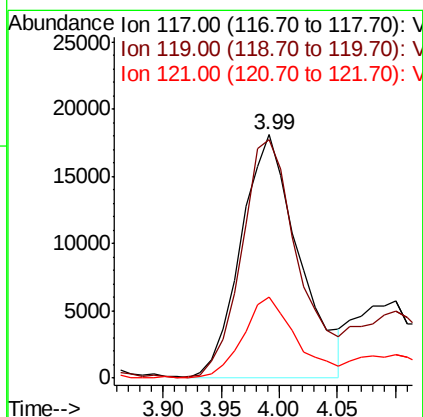
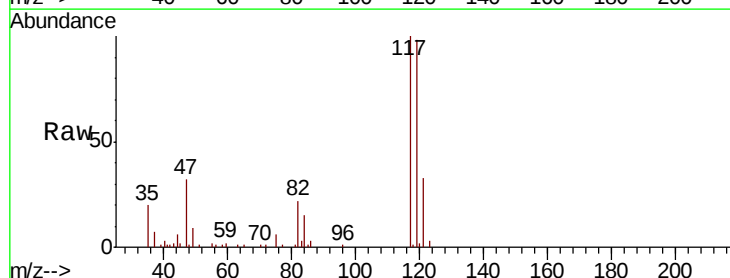
Instrument :
MSVOA_F
ClientSampleId :
VF1218SBS02

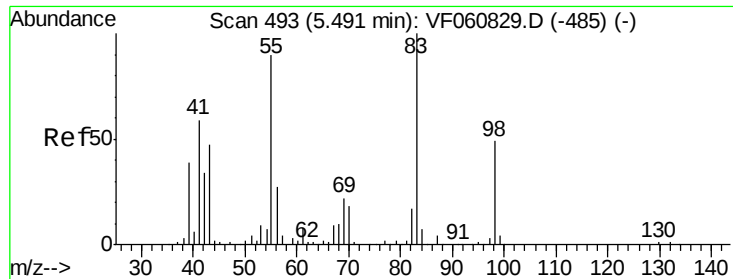
Tot Ion: 43 Resp: 32617
Ion Ratio Lower Upper
43 100
61 70.4 68.6 103.0
70 7.9 9.0 13.4#



#38
Carbon Tetrachloride
Concen: 21.650 ug/l
RT: 3.99 min Scan# 341
Delta R.T. -0.03 min
Lab File: VF061059.D
Acq: 18 Dec 2018 13:31

Tgt Ion: 117 Resp: 62423
Ion Ratio Lower Upper
117 100
119 98.1 74.4 111.6
121 33.5 23.5 35.3

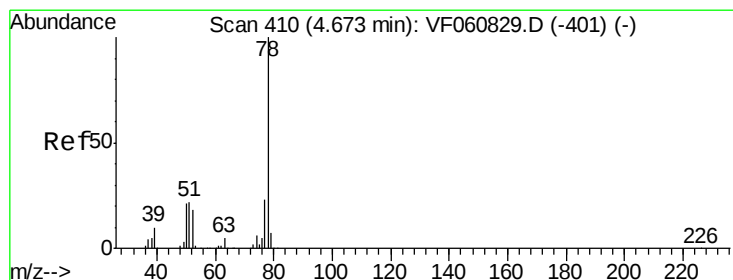
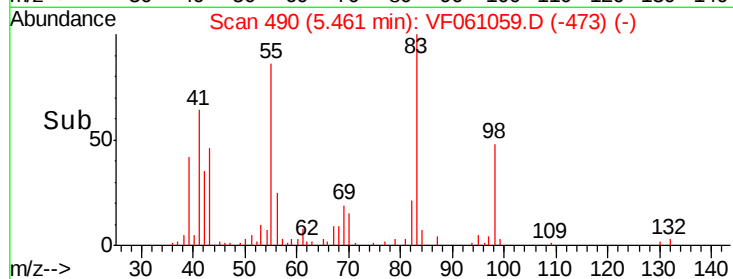
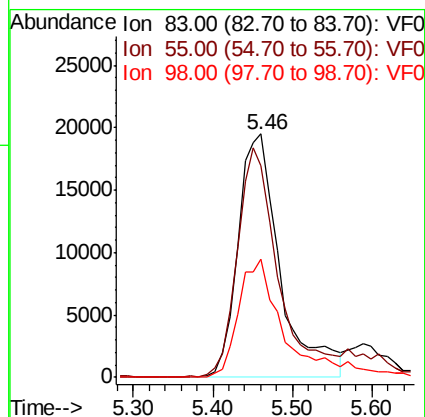
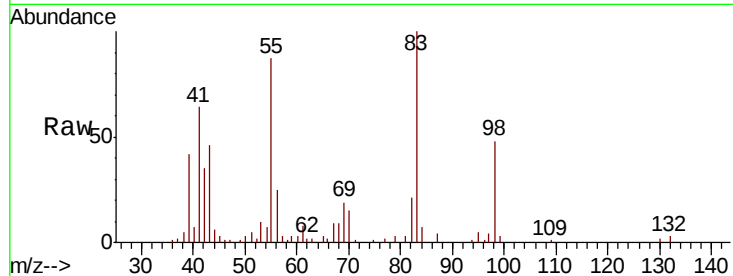




#39
Methvlcvclohexane
Concen: 20.980 ug/l
RT: 5.46 min Scan# 490
Delta R.T. -0.03 min
Lab File: VF061059.D
Acq: 18 Dec 2018 13:31

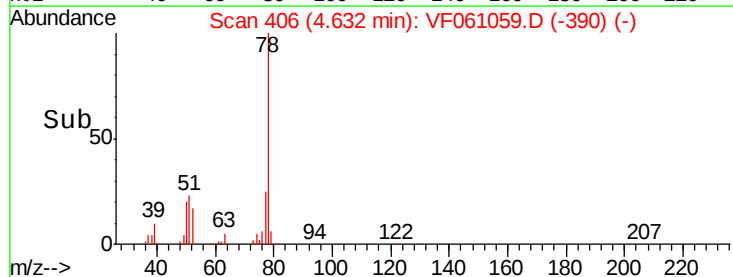
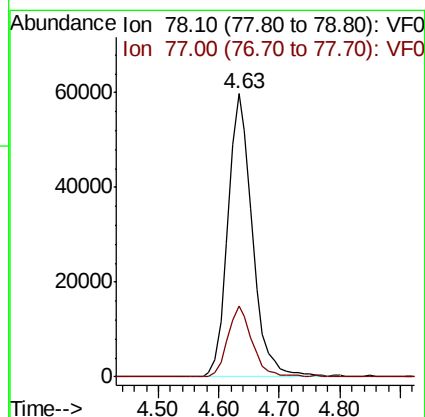
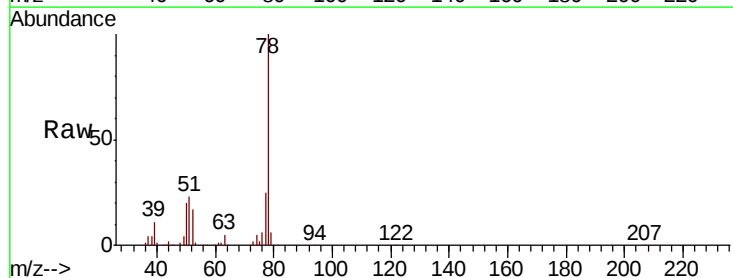
Instrument :
MSVOA_F
ClientSampleId :
VF1218SBS02

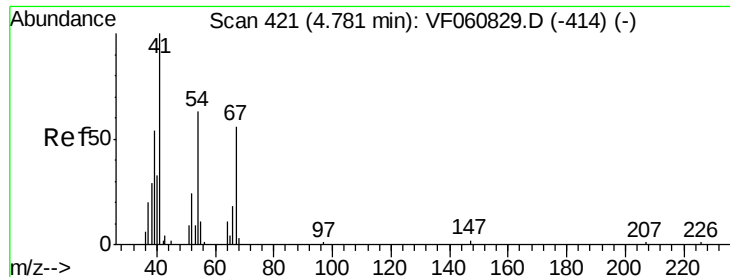
Tot Ion: 83 Resp: 71772
Ion Ratio Lower Upper
83 100
55 87.0 72.1 108.1
98 48.3 39.1 58.7



#40
Benzene
Concen: 23.356 ug/l
RT: 4.63 min Scan# 406
Delta R.T. -0.04 min
Lab File: VF061059.D
Acq: 18 Dec 2018 13:31

Tgt Ion: 78 Resp: 168438
Ion Ratio Lower Upper
78 100
77 25.3 18.7 28.1

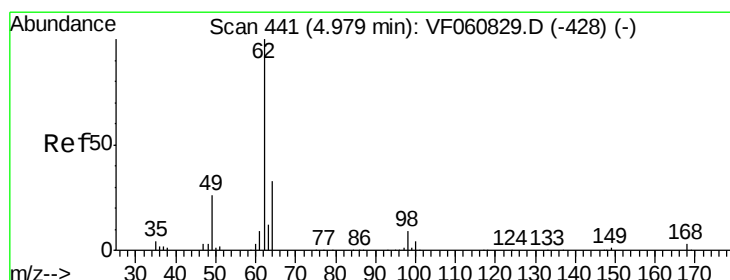
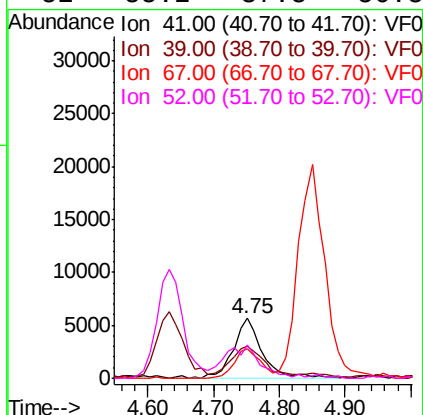
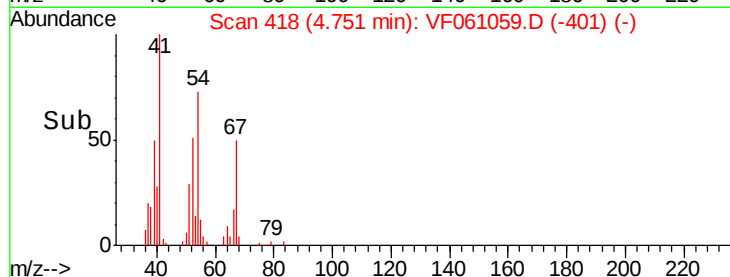
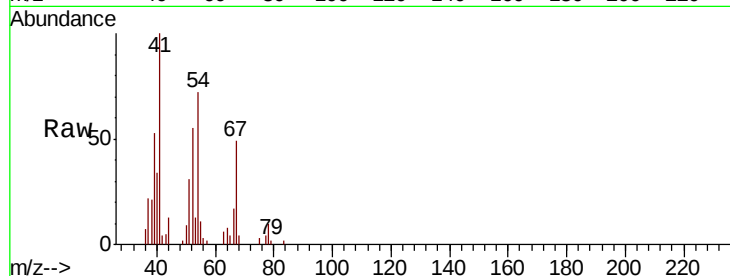




#41
Methacrylonitrile
Concen: 23.183 ug/l
RT: 4.75 min Scan# 418
Delta R.T. -0.03 min
Lab File: VF061059.D
Acq: 18 Dec 2018 13:31

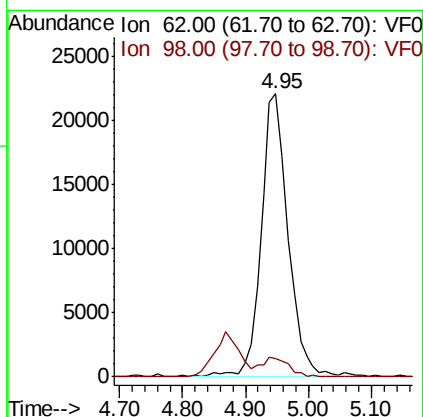
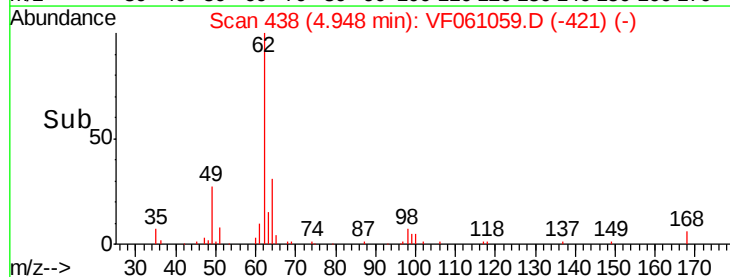
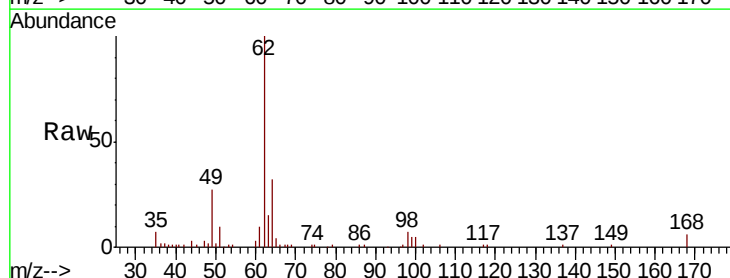
Instrument :
MSVOA_F
ClientSampleId :
VF1218SBS02

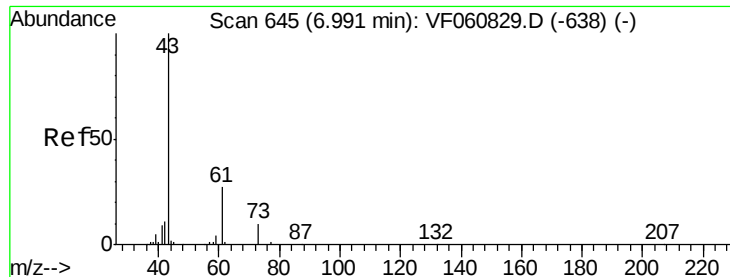
Tot Ion: 41 Resp: 17352
Ion Ratio Lower Upper
41 100
39 52.6 53.0 79.6#
67 49.0 43.8 65.6
52 55.2 37.8 56.8



#42
1,2-Dichloroethane
Concen: 24.826 ug/l
RT: 4.95 min Scan# 438
Delta R.T. -0.03 min
Lab File: VF061059.D
Acq: 18 Dec 2018 13:31

Tgt Ion: 62 Resp: 65362
Ion Ratio Lower Upper
62 100
98 6.7 0.0 17.2



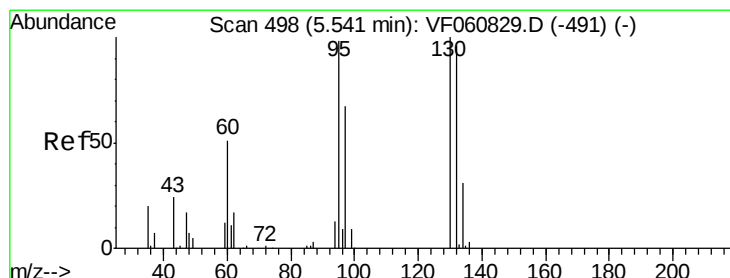
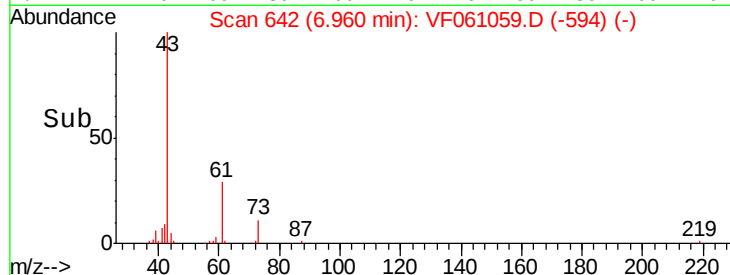
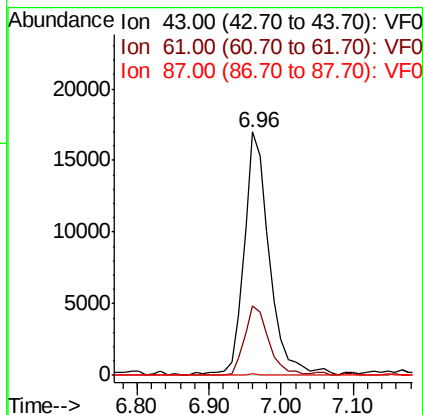
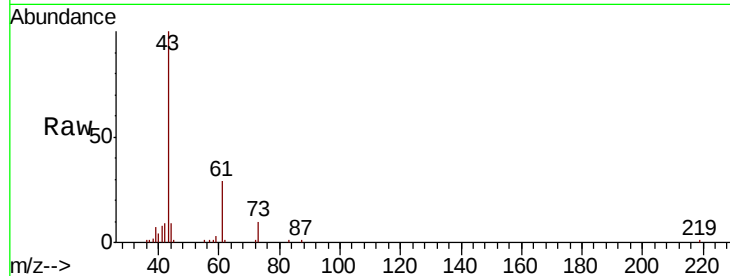


#43

Isopropyl Acetate
 Concen: 24.010 ug/l
 RT: 6.96 min Scan# 642
 Delta R.T. -0.03 min
 Lab File: VF061059.D
 Acq: 18 Dec 2018 13:31

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1218SBS02

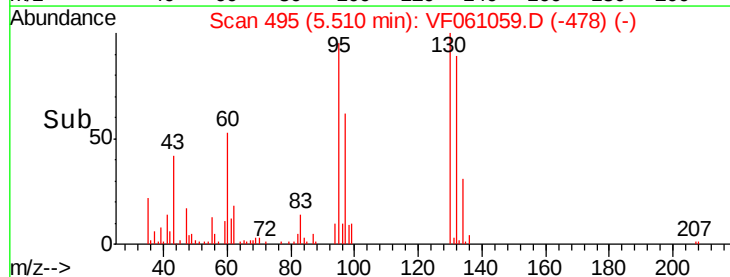
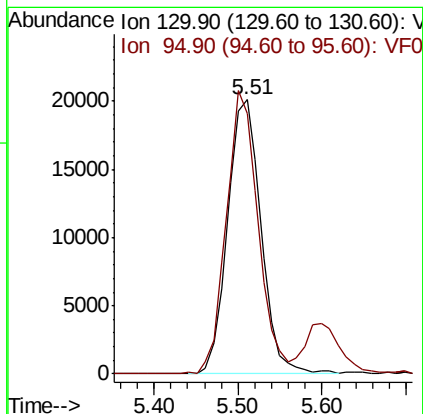
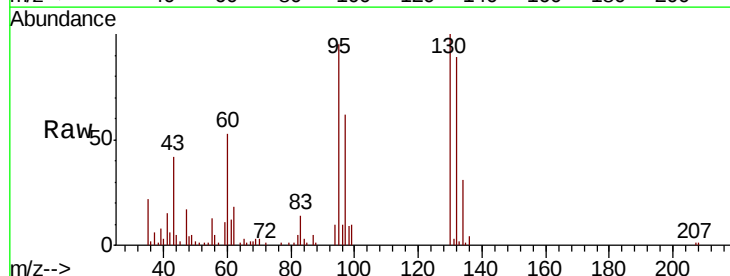
Tot Ion: 43 Resp: 41612
 Ion Ratio Lower Upper
 43 100
 61 28.8 21.4 32.0
 87 0.9 0.2 0.4#

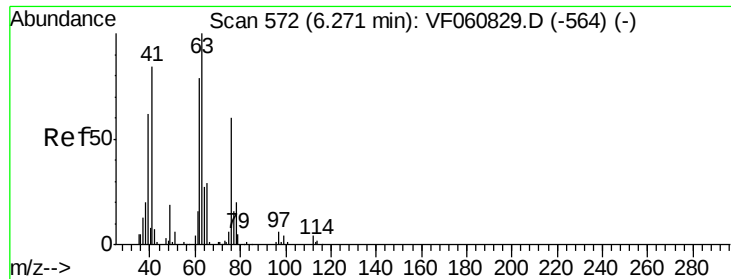


#44

Trichloroethene
 Concen: 23.588 ug/l
 RT: 5.51 min Scan# 495
 Delta R.T. -0.03 min
 Lab File: VF061059.D
 Acq: 18 Dec 2018 13:31

Tgt Ion:130 Resp: 55620
 Ion Ratio Lower Upper
 130 100
 95 95.2 0.0 195.6





#45

1,2-Dichloropropane

Concen: 22.339 ug/l

RT: 6.24 min Scan# 569

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA_F

ClientSampleId :

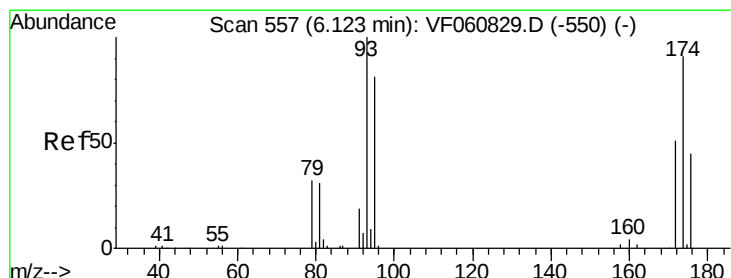
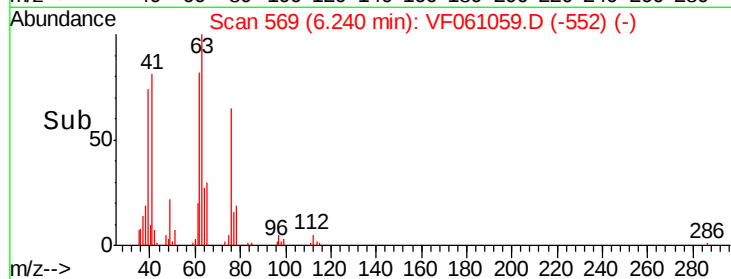
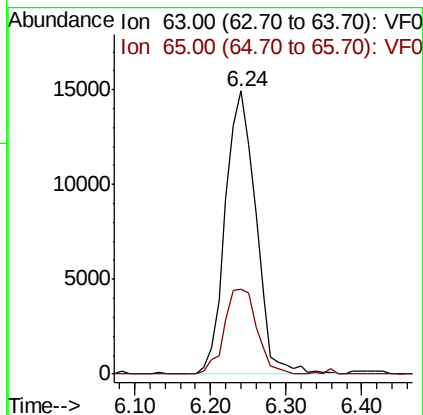
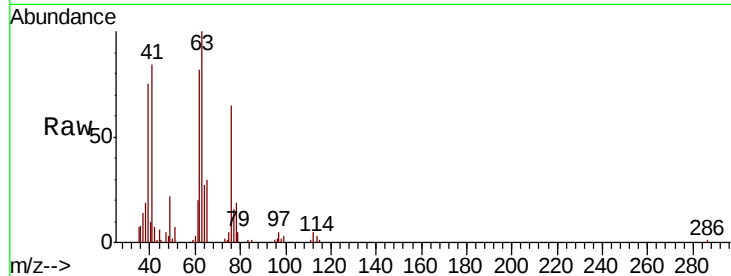
VF1218SBS02

Tot Ion: 63 Resp: 41841

Ion Ratio Lower Upper

63 100

65 30.2 23.2 34.8



#46

Dibromomethane

Concen: 23.587 ug/l

RT: 6.08 min Scan# 553

Delta R.T. -0.04 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

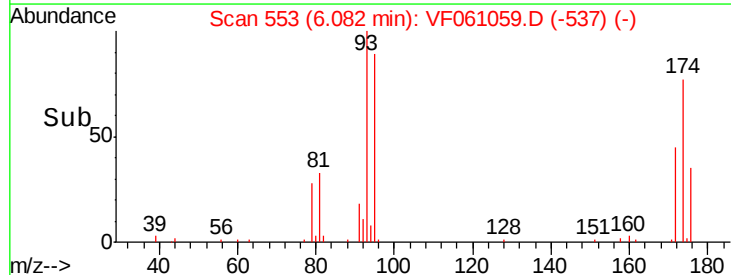
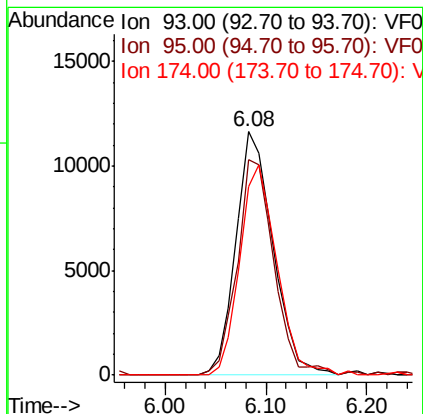
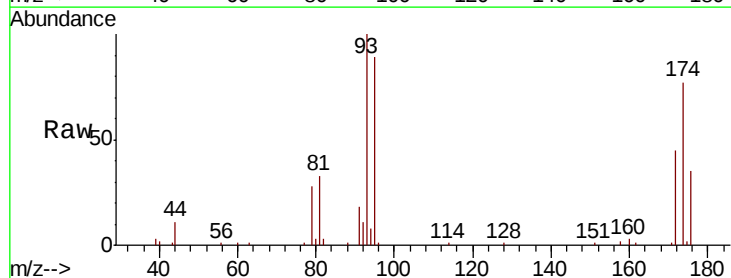
Tgt Ion: 93 Resp: 29969

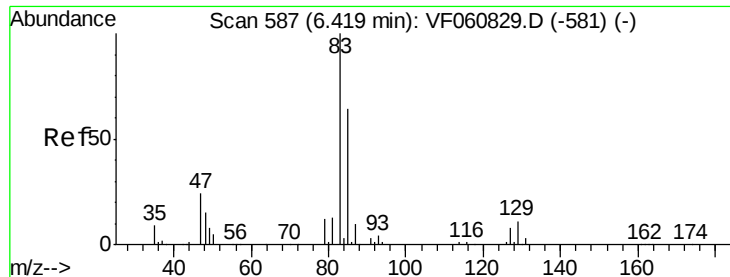
Ion Ratio Lower Upper

93 100

95 88.8 64.7 97.1

174 77.3 73.0 109.6





#47

Bromodichloromethane

Concen: 24.372 ug/l

RT: 6.39 min Scan# 584

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA_F

ClientSampleId :

VF1218SBS02

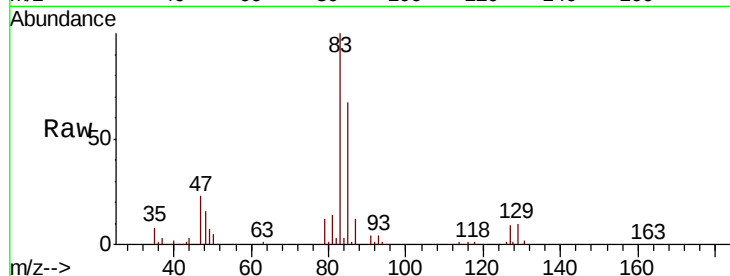
Tot Ion: 83 Resp: 82247

Ion Ratio Lower Upper

83 100

85 67.2 51.1 76.7

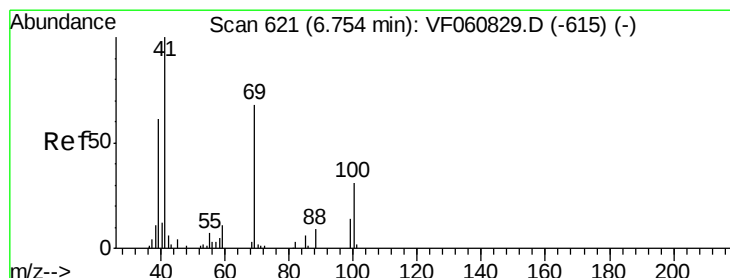
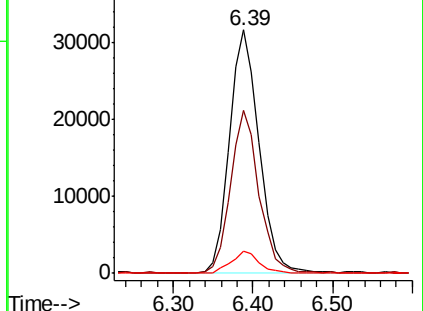
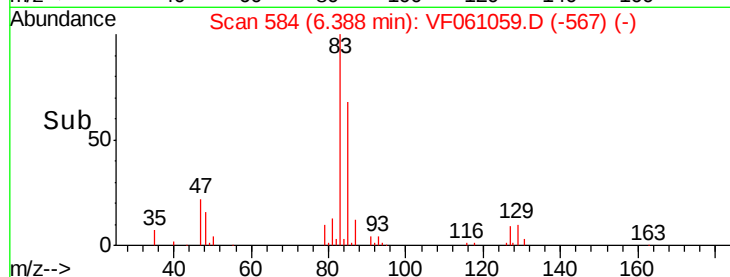
127 9.1 6.8 10.2



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: 23.257 ug/l

RT: 6.72 min Scan# 618

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

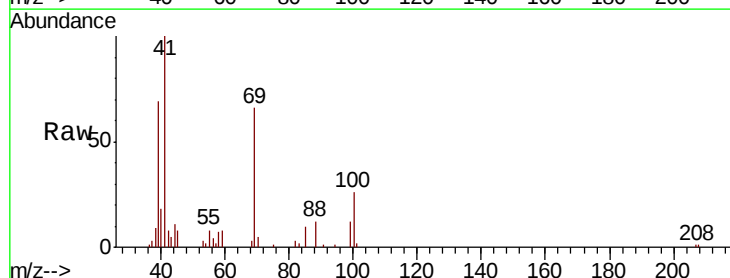
Tgt Ion: 41 Resp: 27926

Ion Ratio Lower Upper

41 100

69 66.3 53.9 80.9

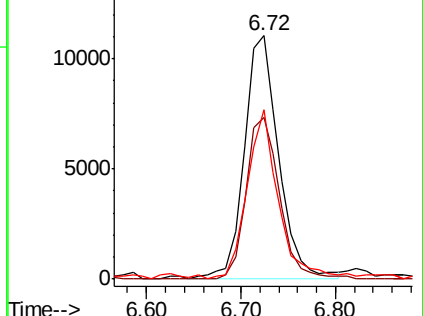
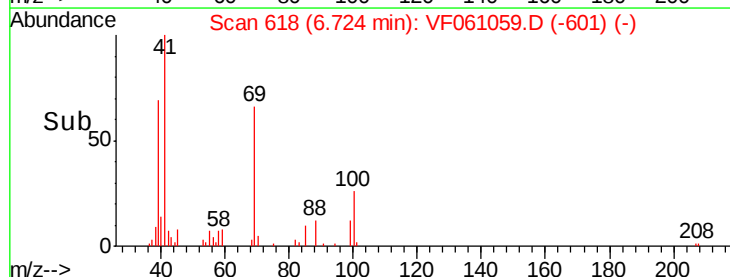
39 69.3 49.0 73.6

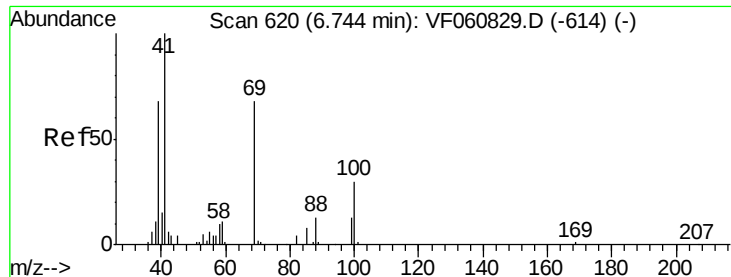


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 538.796 ug/l

RT: 6.71 min Scan# 617

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA_F

ClientSampleId :

VF1218SBS02

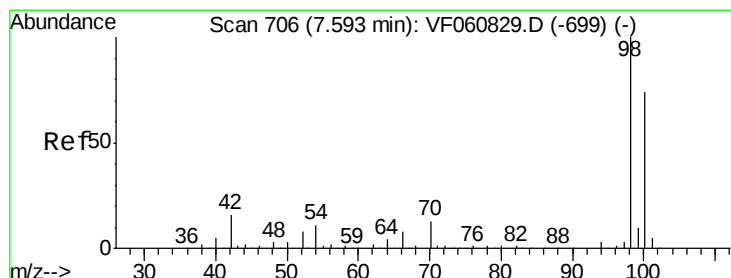
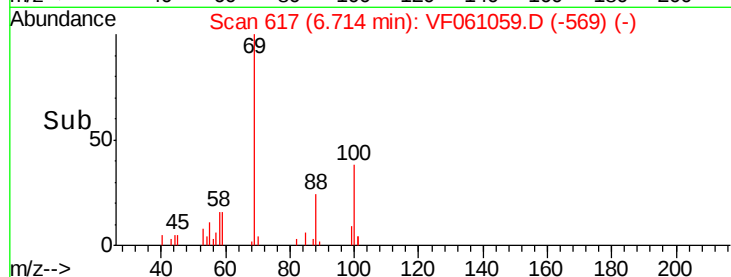
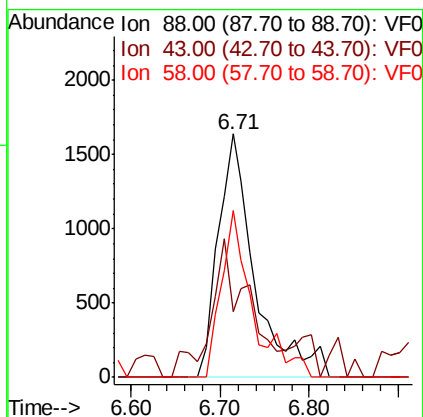
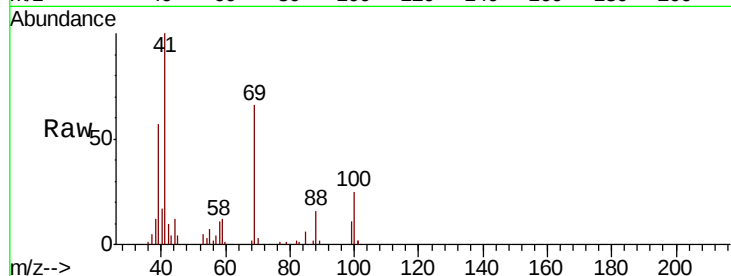
Tot Ion: 88 Resp: 4735

Ion Ratio Lower Upper

88 100

43 27.1 42.0 63.0#

58 68.3 61.8 92.8



#50

Toluene-d8

Concen: 49.834 ug/l

RT: 7.55 min Scan# 702

Delta R.T. -0.04 min

Lab File: VF061059.D

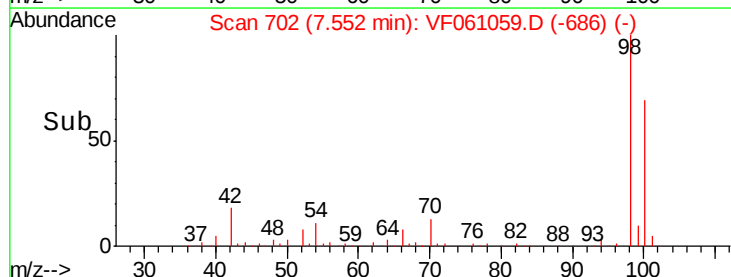
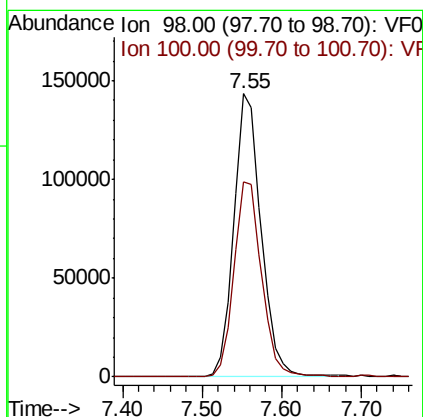
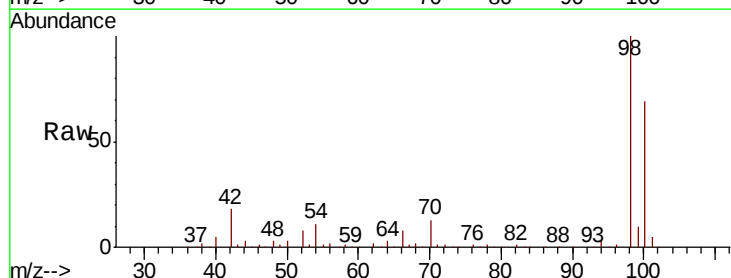
Acq: 18 Dec 2018 13:31

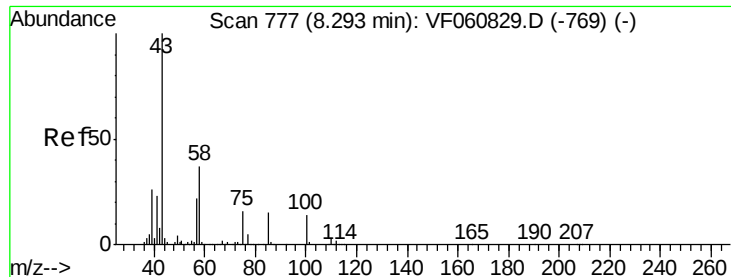
Tgt Ion: 98 Resp: 342748

Ion Ratio Lower Upper

98 100

100 68.8 59.3 88.9





#51

4-Methyl-2-Pentanone

Concen: 121.049 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA_F

ClientSampleId :

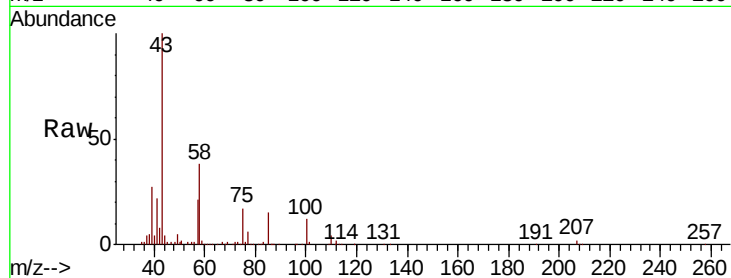
VF1218SBS02

Tot Ion: 43 Resp: 148081

Ion Ratio Lower Upper

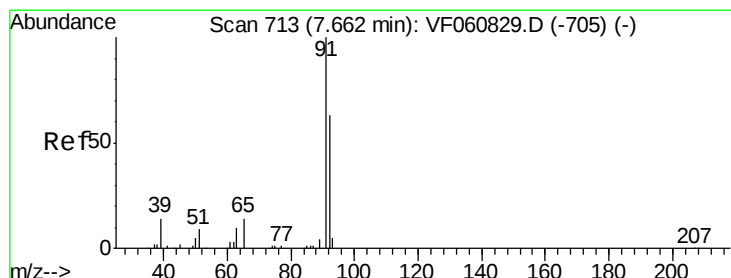
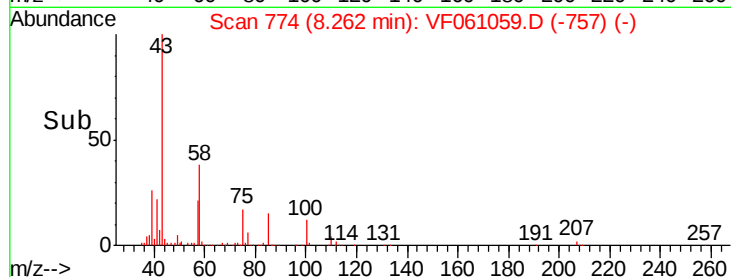
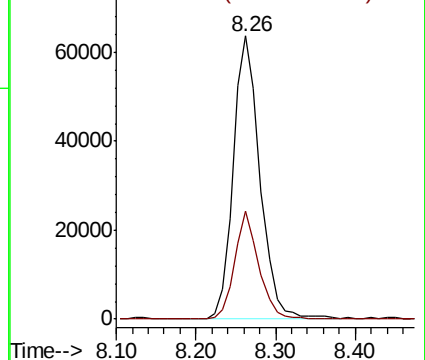
43 100

58 38.2 29.7 44.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 22.585 ug/l

RT: 7.63 min Scan# 710

Delta R.T. -0.03 min

Lab File: VF061059.D

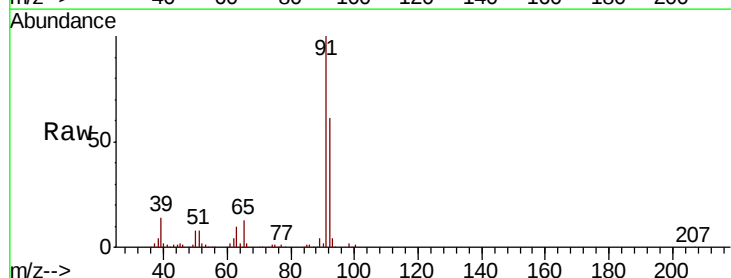
Acq: 18 Dec 2018 13:31

Tgt Ion: 92 Resp: 114409

Ion Ratio Lower Upper

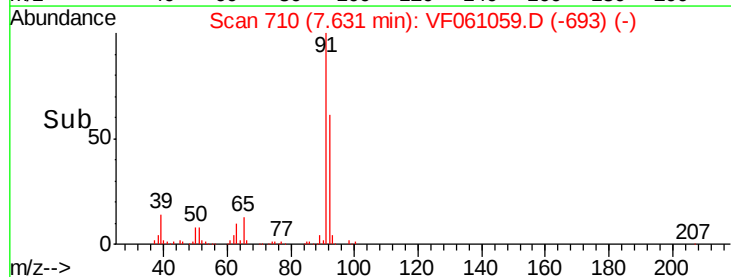
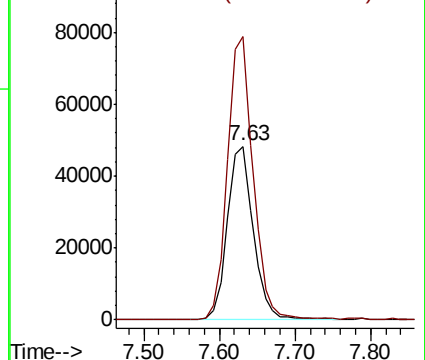
92 100

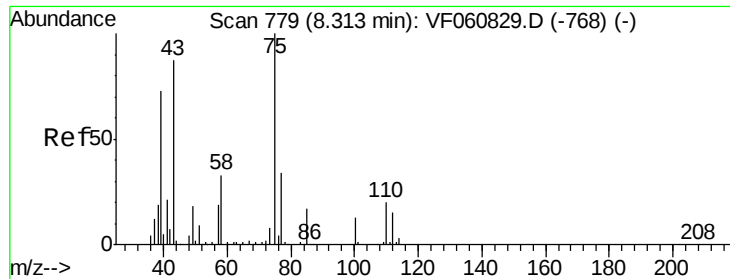
91 163.2 126.2 189.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

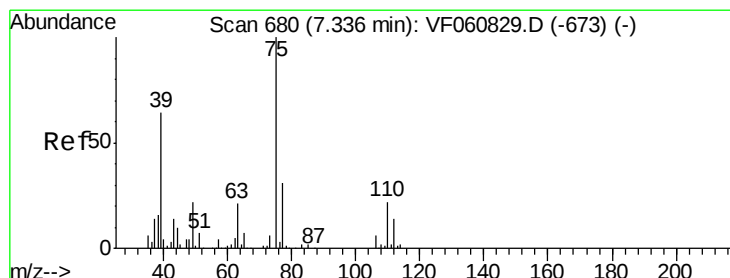
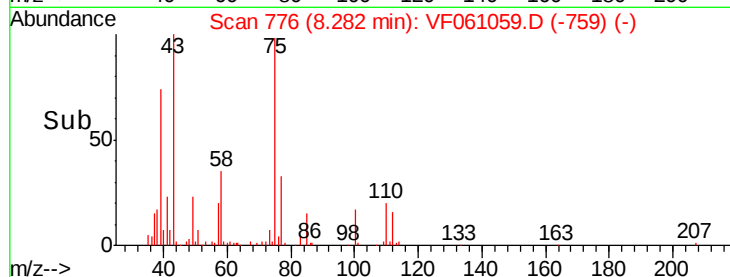
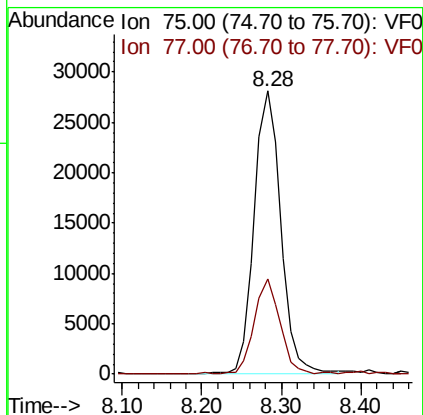
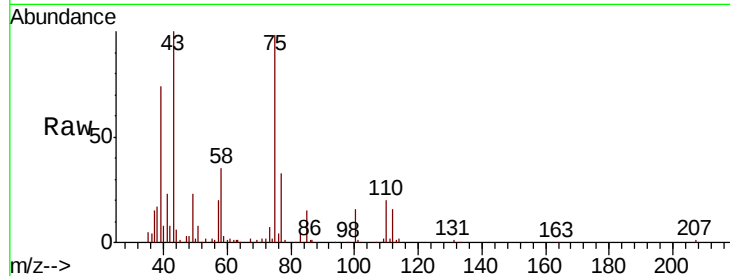




#53
 t-1,3-Dichloropropene
 Concen: 23.705 ug/l
 RT: 8.28 min Scan# 776
 Delta R.T. -0.03 min
 Lab File: VF061059.D
 Acq: 18 Dec 2018 13:31

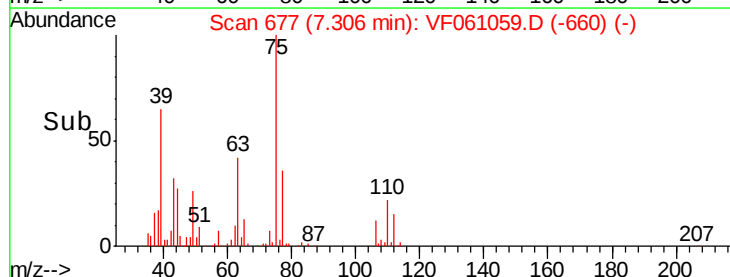
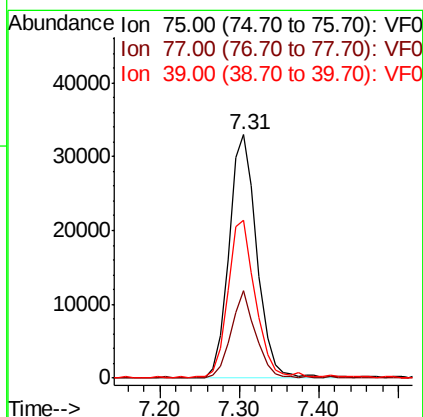
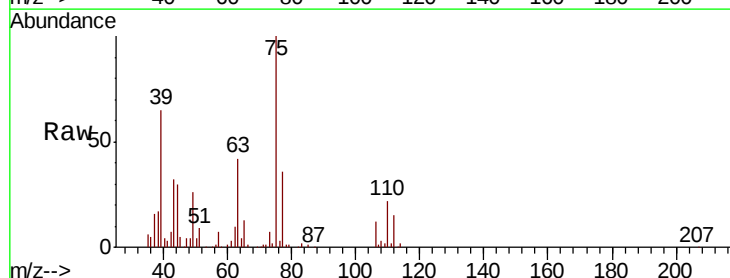
Instrument :
 MSVOA_F
 ClientSampleId :
 VF1218SBS02

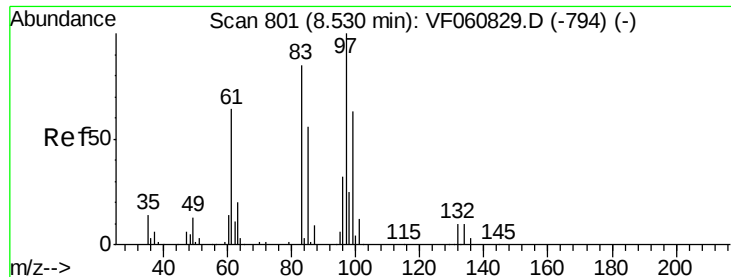
Tot Ion: 75 Resp: 65069
 Ion Ratio Lower Upper
 75 100
 77 33.8 27.4 41.2



#54
 cis-1,3-Dichloropropene
 Concen: 23.663 ug/l
 RT: 7.31 min Scan# 677
 Delta R.T. -0.03 min
 Lab File: VF061059.D
 Acq: 18 Dec 2018 13:31

Tgt Ion: 75 Resp: 80412
 Ion Ratio Lower Upper
 75 100
 77 36.0 25.0 37.6
 39 65.0 51.1 76.7





#55

1,1,2-Trichloroethane

Concen: 24.148 ug/l

RT: 8.49 min Scan# 797

Delta R.T. -0.04 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA_F

ClientSampleId :

VF1218SBS02

Tot Ion: 97 Resp: 35644

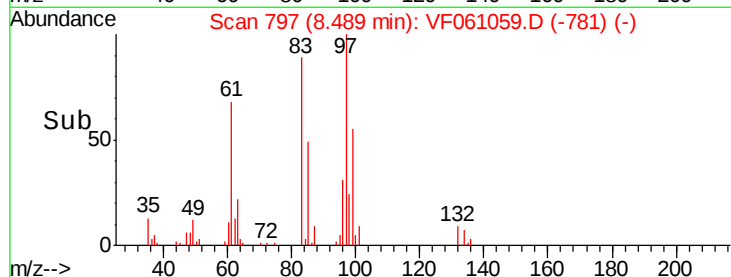
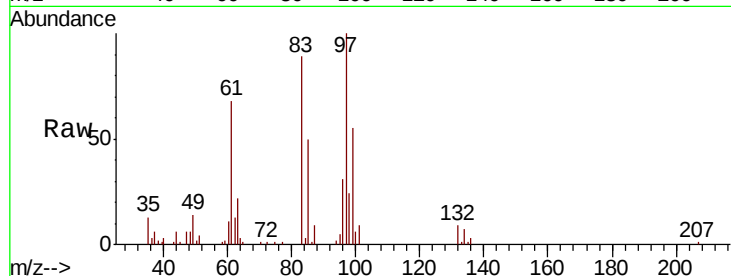
Ion	Ratio	Lower	Upper
97	100		
83	88.6	67.8	101.6
85	50.3	45.0	67.6
99	54.6	50.5	75.7

97 100

83 88.6 67.8 101.6

85 50.3 45.0 67.6

99 54.6 50.5 75.7

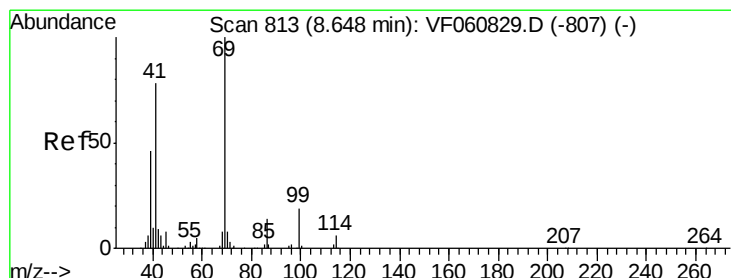
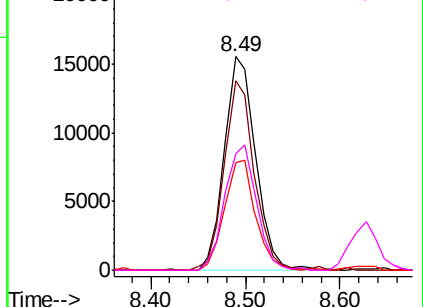


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 23.036 ug/l

RT: 8.63 min Scan# 811

Delta R.T. -0.02 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

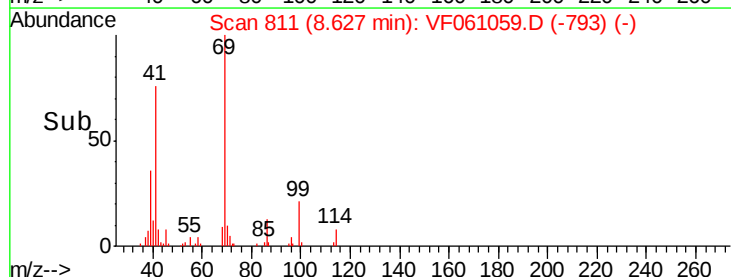
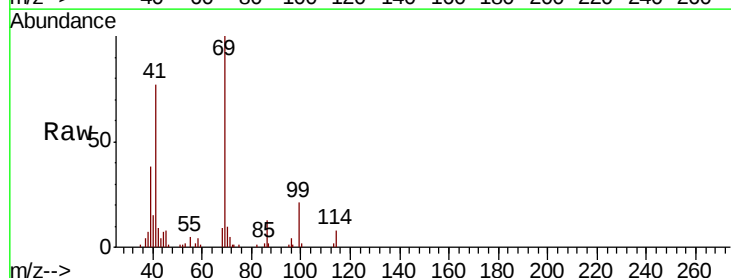
Tgt Ion: 69 Resp: 37772

Ion	Ratio	Lower	Upper
69	100		
41	77.1	62.6	94.0
39	37.7	37.8	56.6#

69 100

41 77.1 62.6 94.0

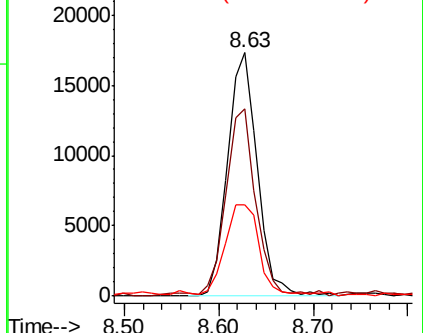
39 37.7 37.8 56.6#

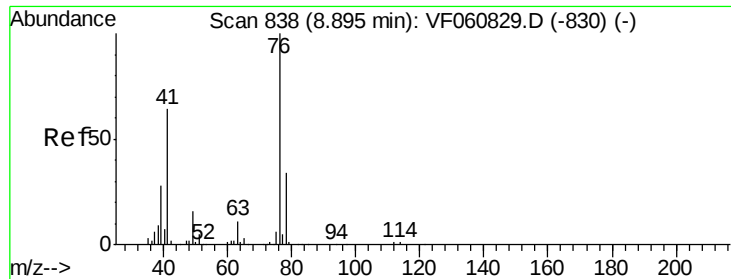


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 24.604 ug/l

RT: 8.85 min Scan# 834

Delta R.T. -0.04 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA_F

ClientSampleId :

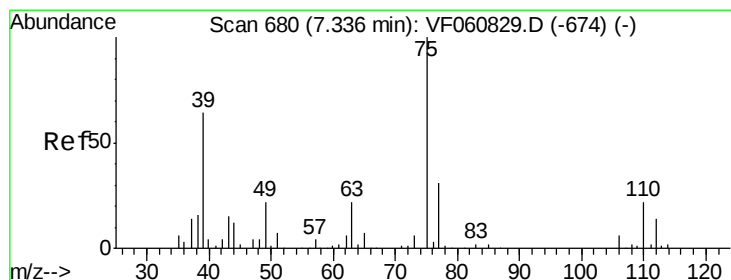
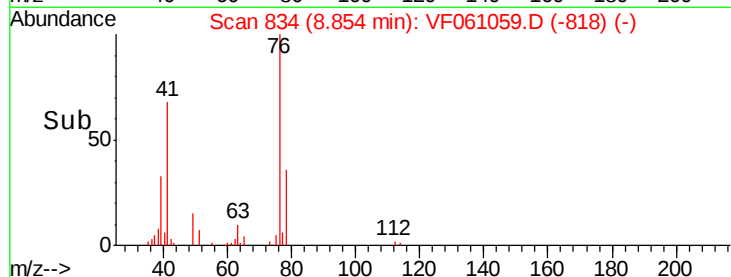
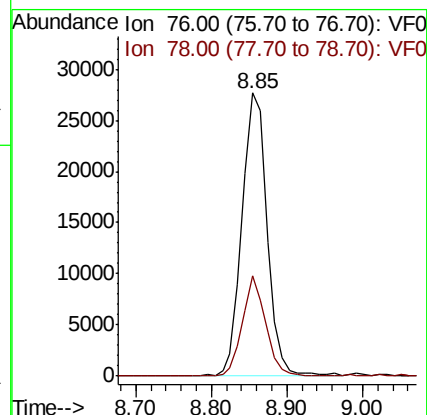
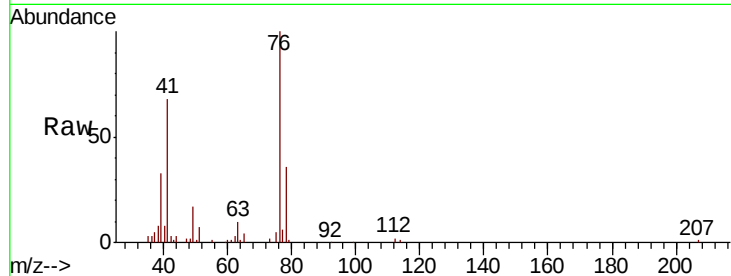
VF1218SBS02

Tot Ion: 76 Resp: 63537

Ion Ratio Lower Upper

76 100

78 35.5 27.0 40.4



#58

2-Chloroethyl Vinyl ether

Concen: 215.014 ug/l

RT: 7.30 min Scan# 676

Delta R.T. -0.04 min

Lab File: VF061059.D

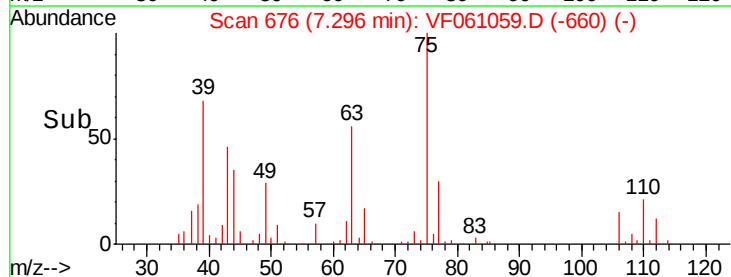
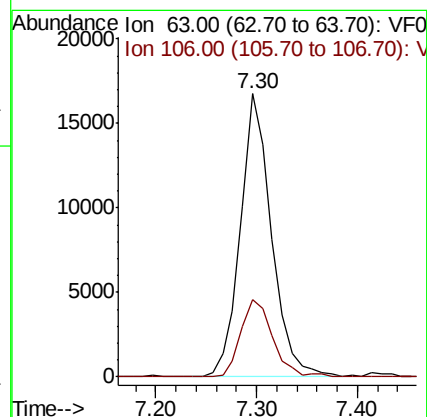
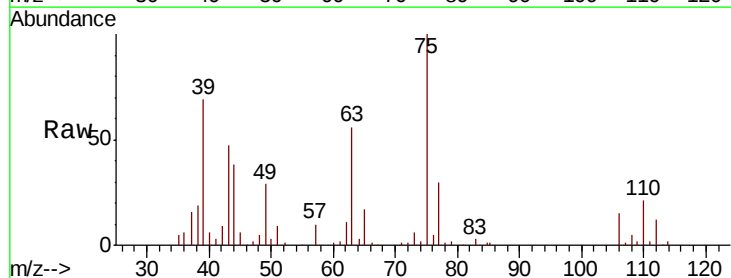
Acq: 18 Dec 2018 13:31

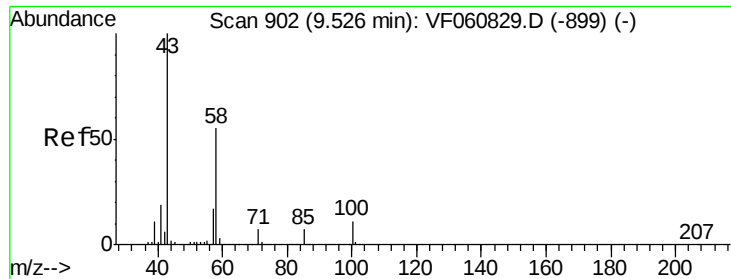
Tgt Ion: 63 Resp: 36062

Ion Ratio Lower Upper

63 100

106 27.3 23.0 34.6

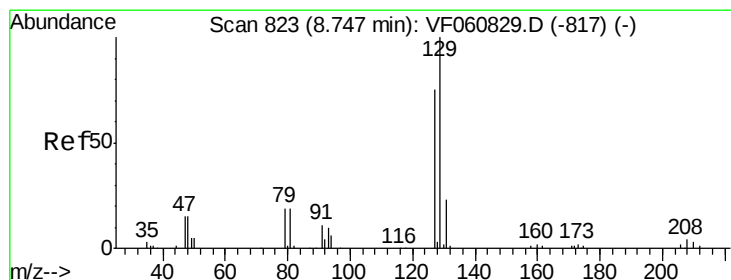
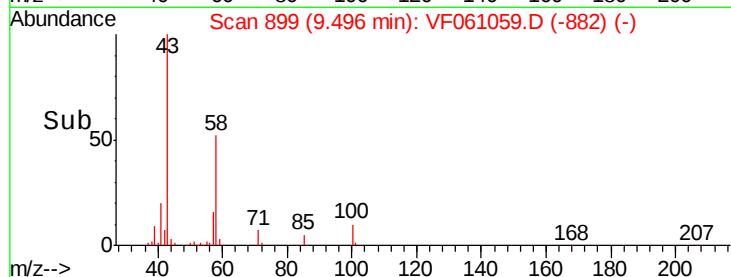
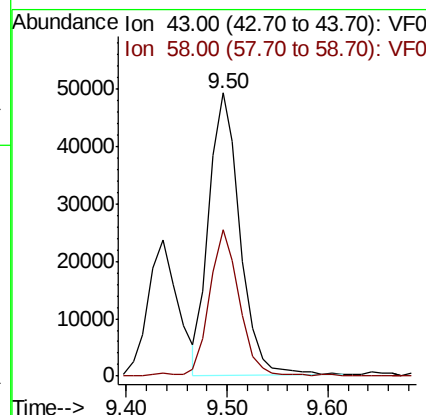
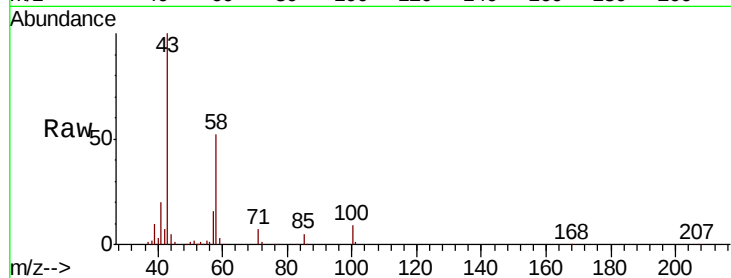




#59
2-Hexanone
Concen: 122.351 ug/l
RT: 9.50 min Scan# 899
Delta R.T. -0.03 min
Lab File: VF061059.D
Acq: 18 Dec 2018 13:31

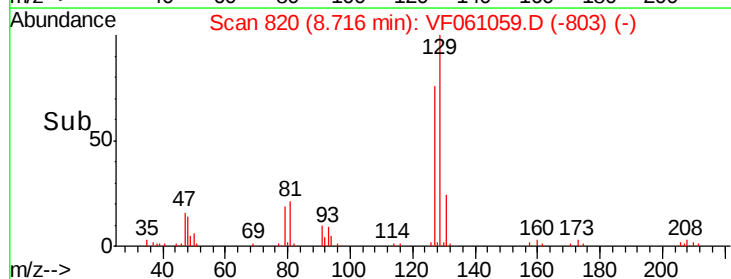
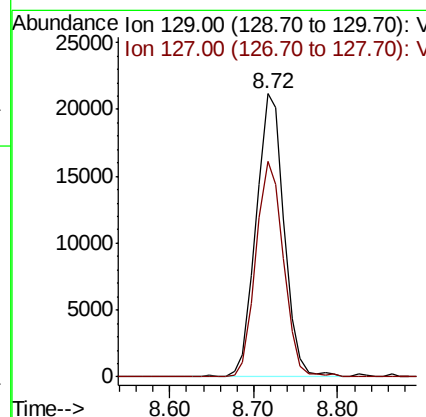
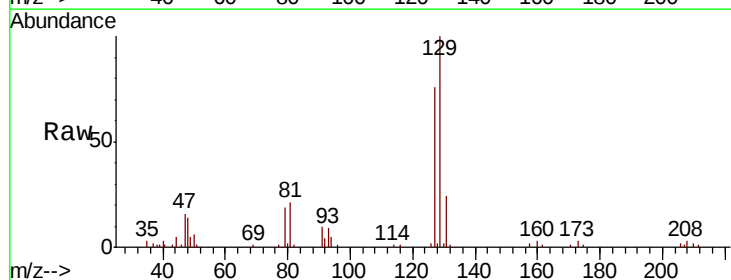
Instrument :
MSVOA_F
ClientSampleId :
VF1218SBS02

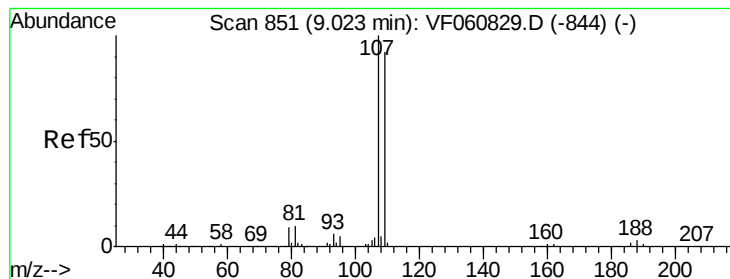
Tot Ion: 43 Resp: 105005
Ion Ratio Lower Upper
43 100
58 51.8 25.6 76.6



#60
Dibromochloromethane
Concen: 22.645 ug/l
RT: 8.72 min Scan# 820
Delta R.T. -0.03 min
Lab File: VF061059.D
Acq: 18 Dec 2018 13:31

Tgt Ion:129 Resp: 49802
Ion Ratio Lower Upper
129 100
127 76.1 37.3 111.9





#61

1,2-Dibromoethane

Concen: 22.181 ug/l

RT: 8.99 min Scan# 848

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA_F

ClientSampleId :

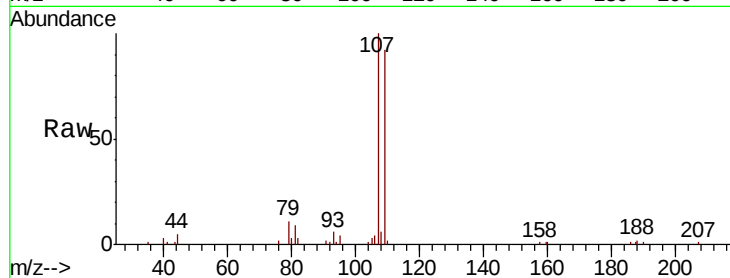
VF1218SBS02

Tot Ion:107 Resp: 35369

Ion Ratio Lower Upper

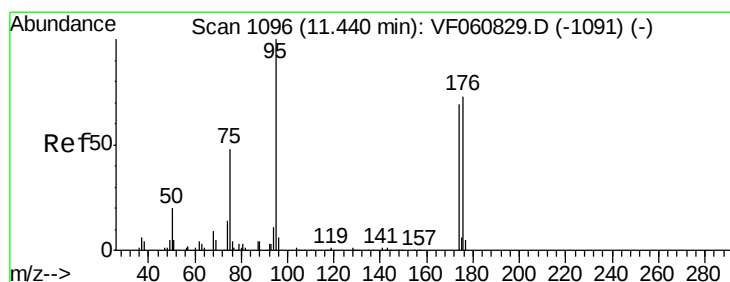
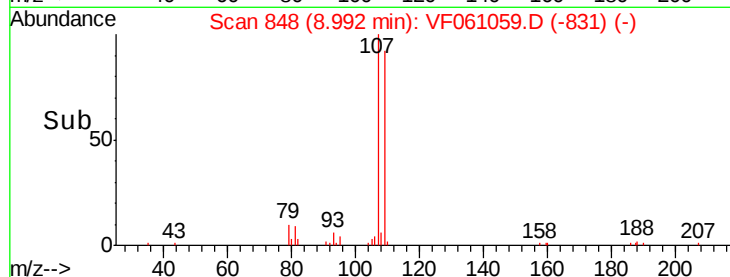
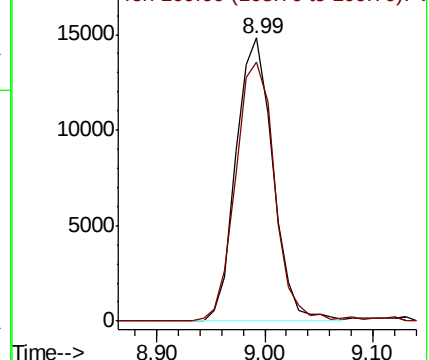
107 100

109 91.6 73.6 110.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 52.111 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

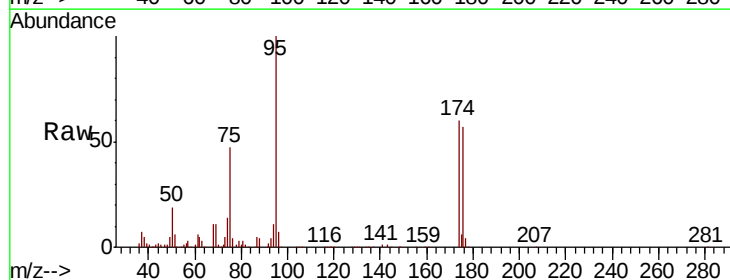
Tgt Ion: 95 Resp: 162892

Ion Ratio Lower Upper

95 100

174 60.3 0.0 138.2

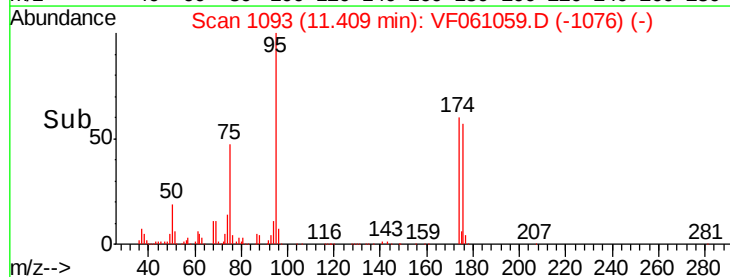
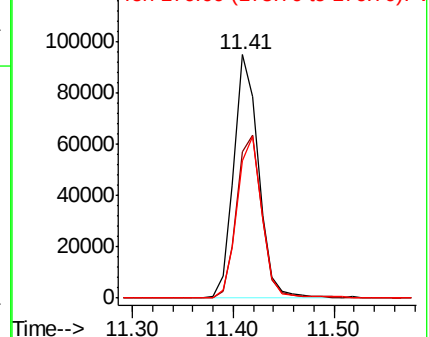
176 56.7 0.0 146.2

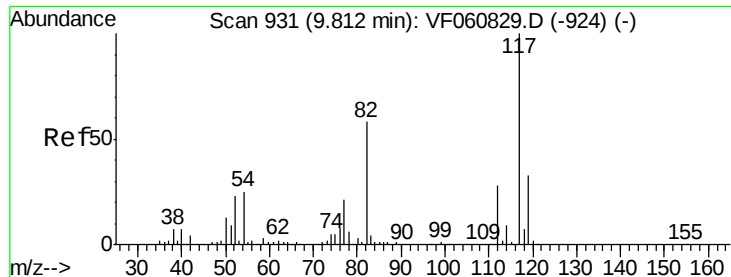


Abundance Ion 95.00 (94.70 to 95.70): VF0

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: 9.78 min Scan# 928

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA_F

ClientSampleId :

VF1218SBS02

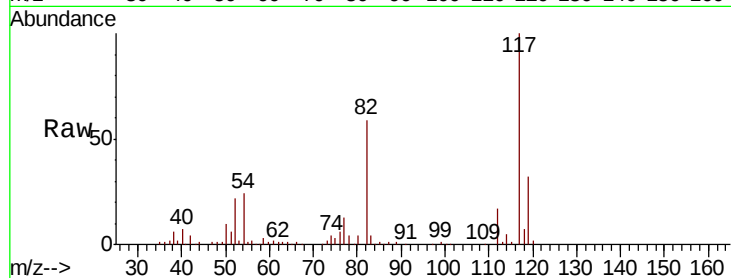
Tot Ion:117 Resp: 277183

Ion Ratio Lower Upper

117 100

82 58.6 46.6 69.8

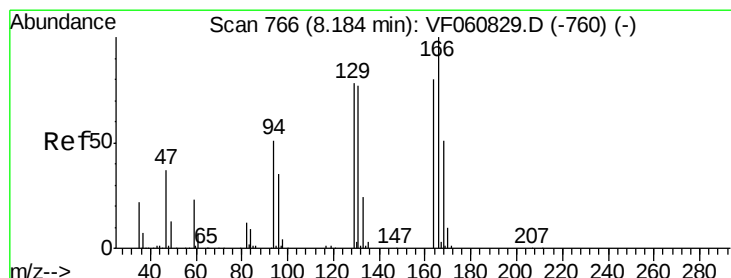
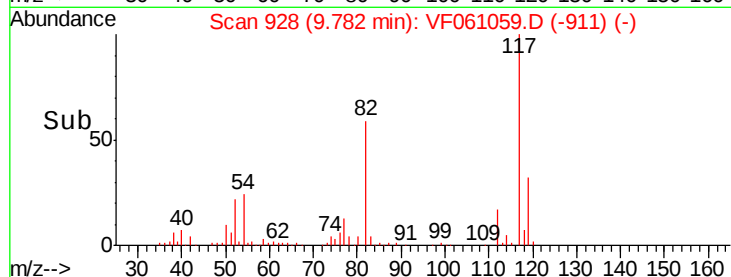
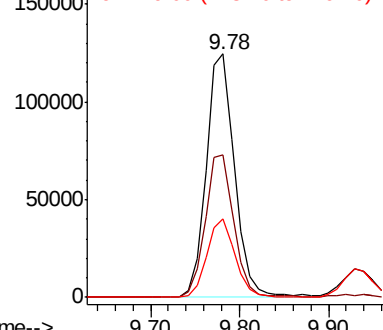
119 32.2 26.4 39.6



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: 22.240 ug/l

RT: 8.15 min Scan# 763

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Tgt Ion:164 Resp: 47084

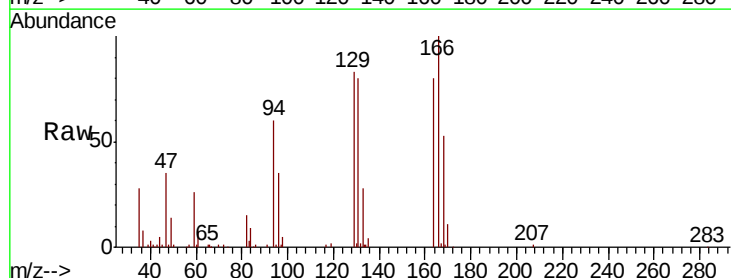
Ion Ratio Lower Upper

164 100

166 125.3 100.3 150.5

129 103.8 77.9 116.9

131 99.7 77.5 116.3

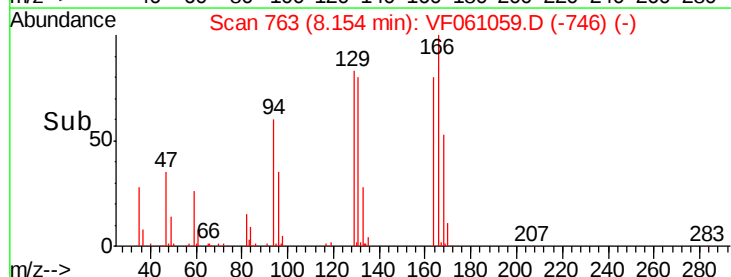
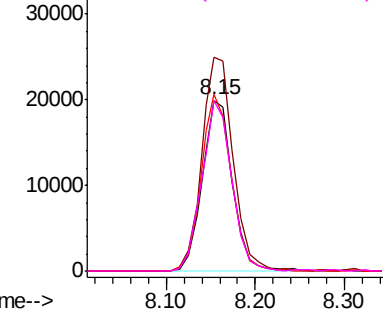


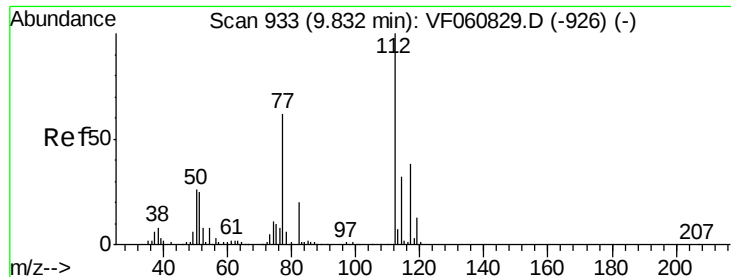
Abundance Ion 163.85 (163.55 to 164.55): V

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

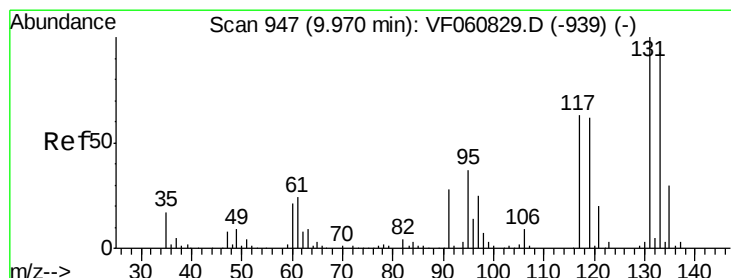
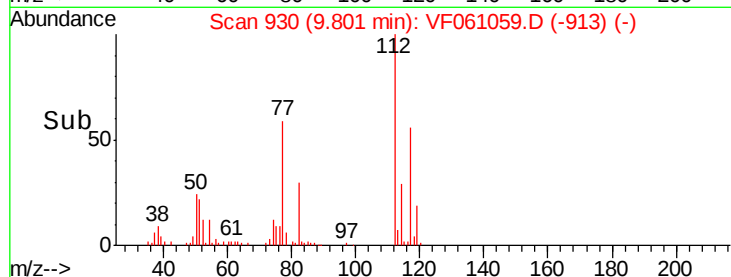
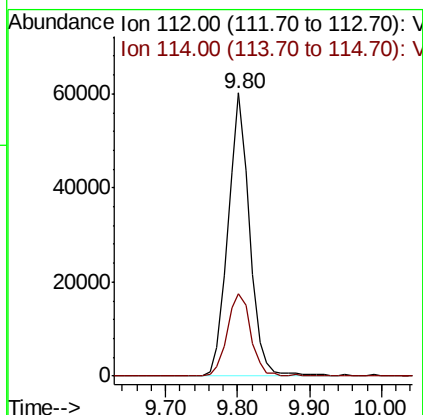
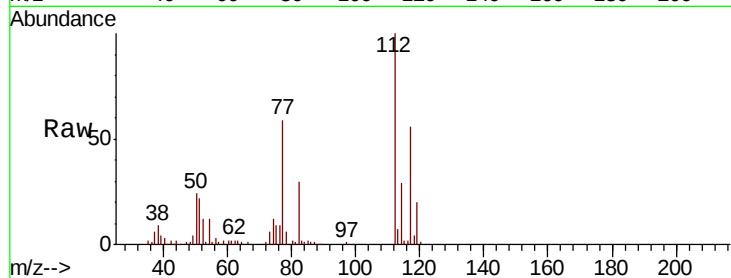




#65
Chlorobenzene
Concen: 23.269 ug/l
RT: 9.80 min Scan# 930
Delta R.T. -0.03 min
Lab File: VF061059.D
Acq: 18 Dec 2018 13:31

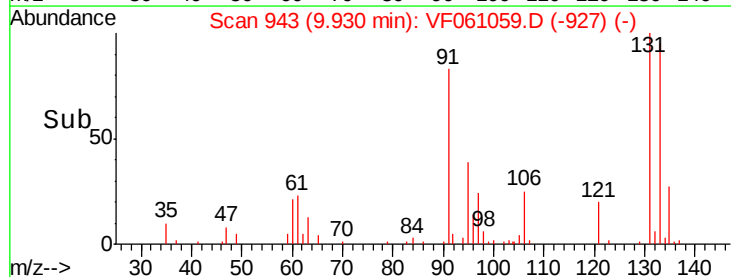
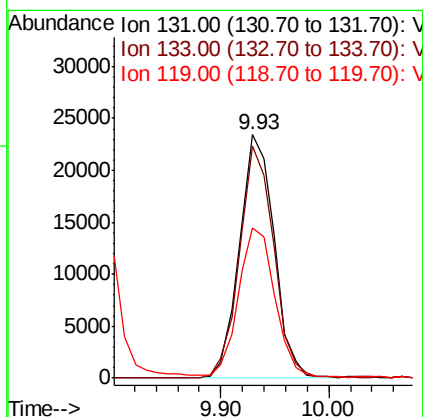
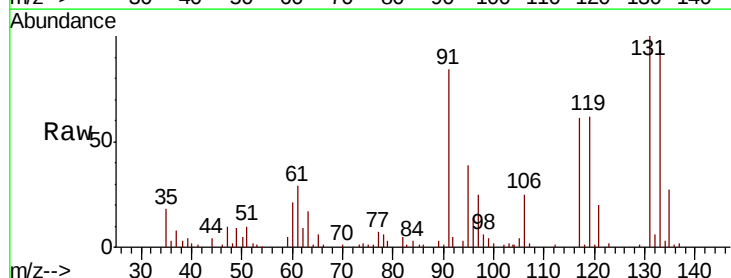
Instrument :
MSVOA_F
ClientSampleId :
VF1218SBS02

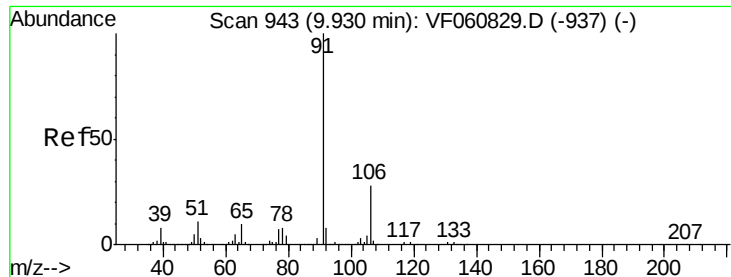
Tot Ion:112 Resp: 125474
Ion Ratio Lower Upper
112 100
114 29.2 26.0 39.0



#66
1,1,1,2-Tetrachloroethane
Concen: 22.509 ug/l
RT: 9.93 min Scan# 943
Delta R.T. -0.04 min
Lab File: VF061059.D
Acq: 18 Dec 2018 13:31

Tgt Ion:131 Resp: 52179
Ion Ratio Lower Upper
131 100
133 95.4 46.5 139.3
119 61.6 31.1 93.3





#67

Ethyl Benzene

Concen: 23.914 ug/l

RT: 9.90 min Scan# 940

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA_F

ClientSampleId :

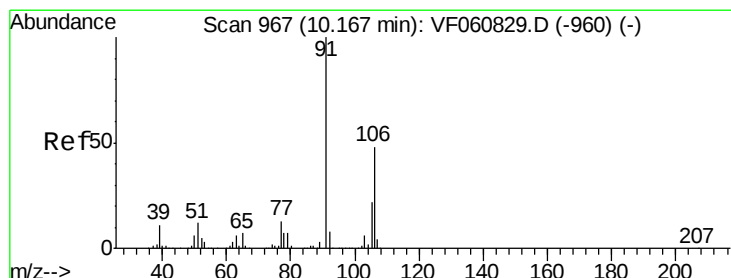
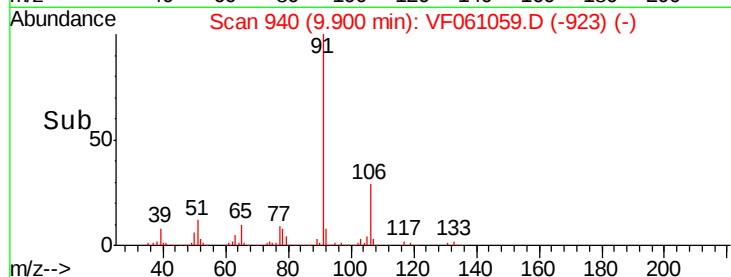
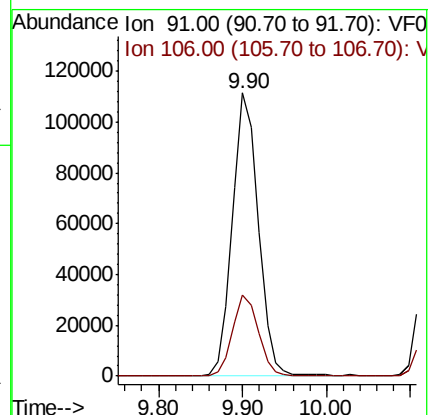
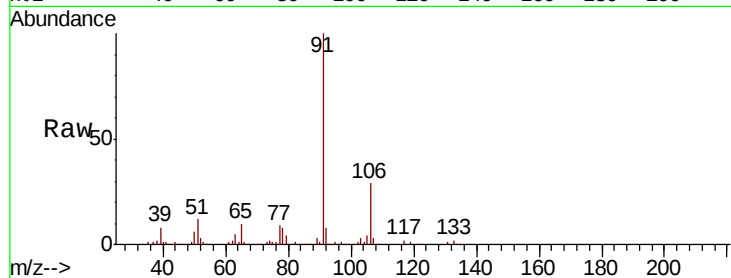
VF1218SBS02

Tot Ion: 91 Resp: 240067

Ion Ratio Lower Upper

91 100

106 28.7 22.2 33.2



#68

m/p-Xylenes

Concen: 48.033 ug/l

RT: 10.14 min Scan# 964

Delta R.T. -0.03 min

Lab File: VF061059.D

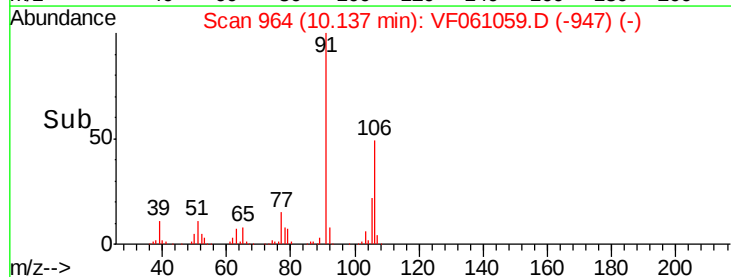
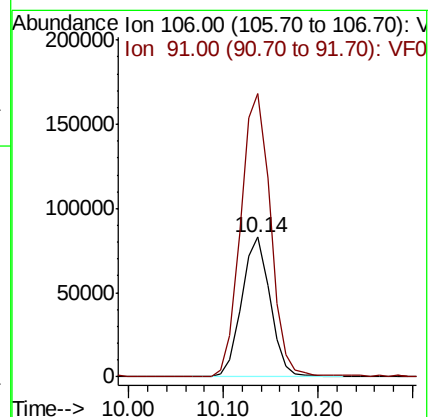
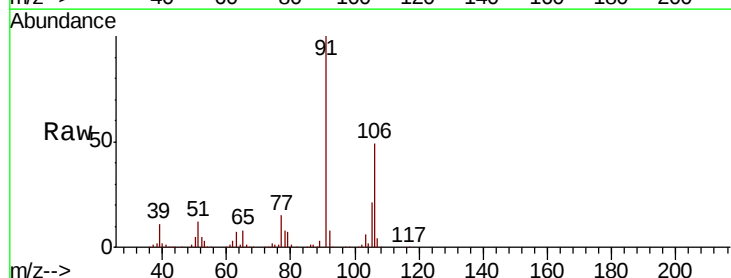
Acq: 18 Dec 2018 13:31

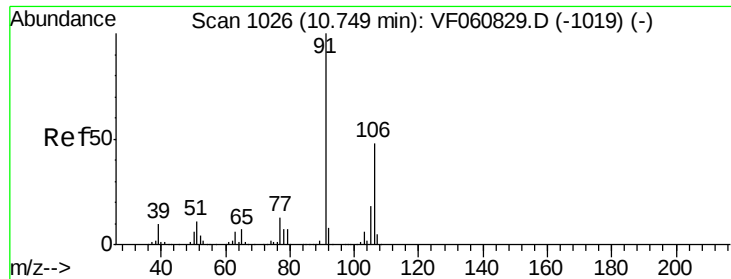
Tgt Ion: 106 Resp: 173427

Ion Ratio Lower Upper

106 100

91 202.9 166.7 250.1

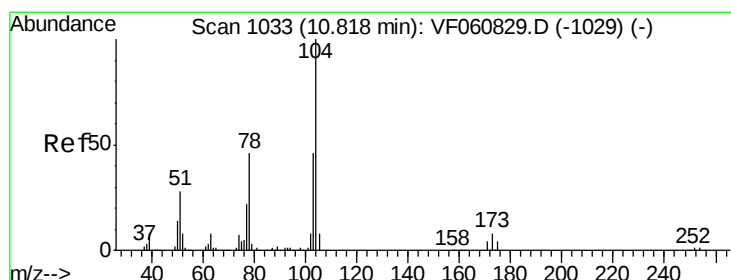
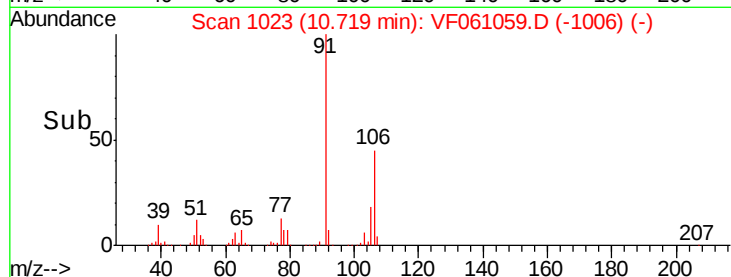
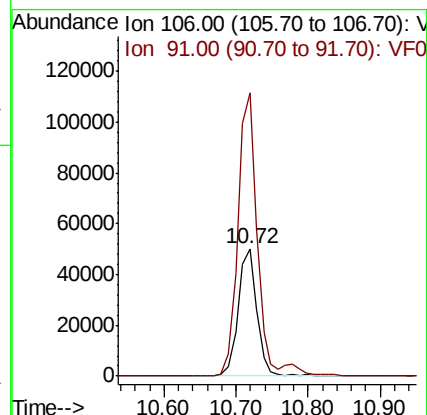
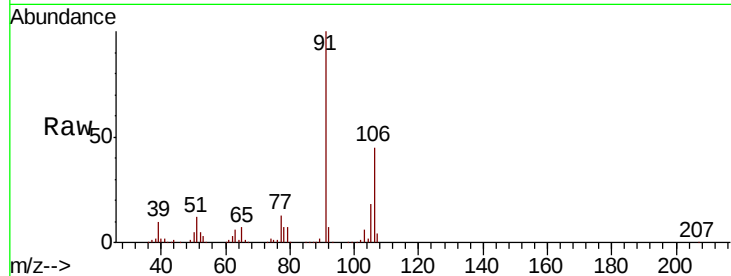




#69
o-Xylene
Concen: 22.906 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. -0.03 min
Lab File: VF061059.D
Acq: 18 Dec 2018 13:31

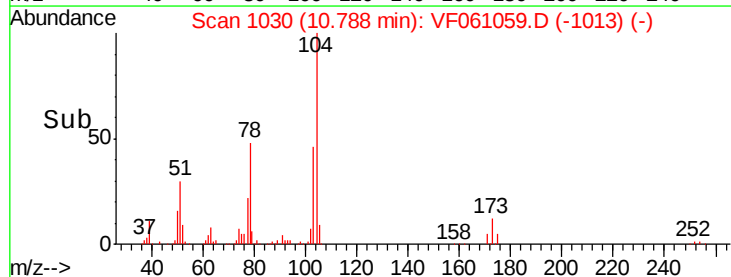
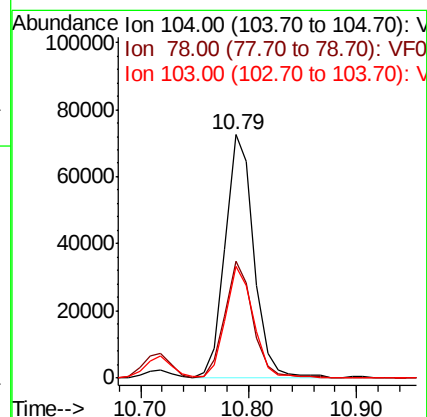
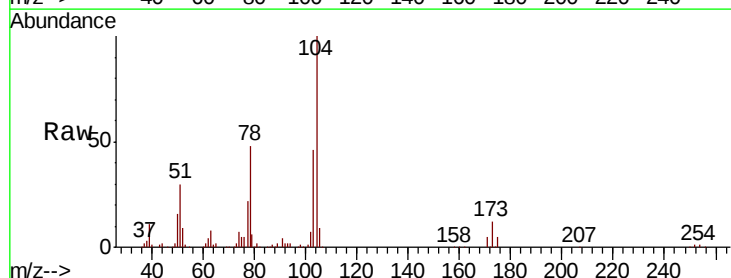
Instrument :
MSVOA_F
ClientSampleId :
VF1218SBS02

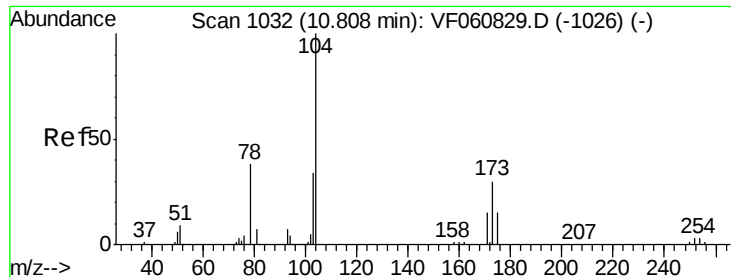
Tot Ion:106 Resp: 91197
Ion Ratio Lower Upper
106 100
91 222.5 104.8 314.6



#70
Styrene
Concen: 24.238 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. -0.03 min
Lab File: VF061059.D
Acq: 18 Dec 2018 13:31

Tgt Ion:104 Resp: 133773
Ion Ratio Lower Upper
104 100
78 47.9 37.3 55.9
103 45.8 36.8 55.2





#71

Bromoform

Concen: 23.525 ug/l

RT: 10.78 min Scan# 1029

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA_F

ClientSampleId :

VF1218SBS02

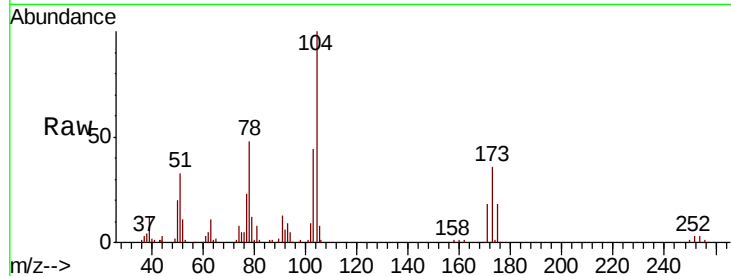
Tot Ion:173 Resp: 26342

Ion Ratio Lower Upper

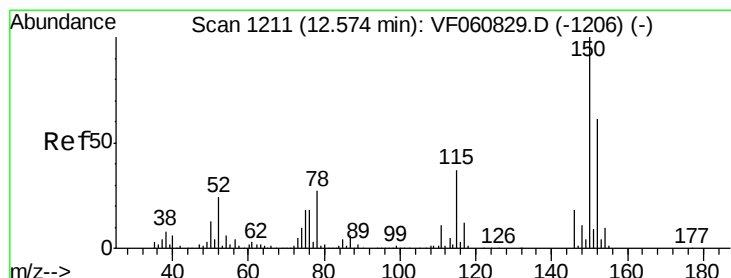
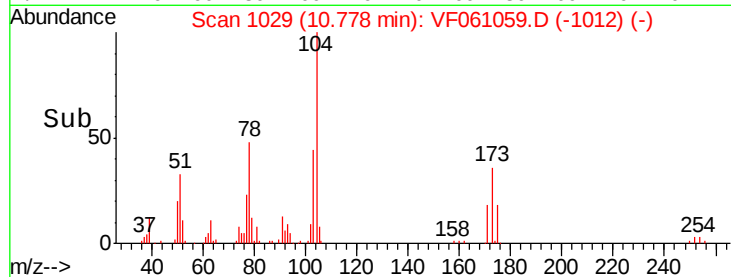
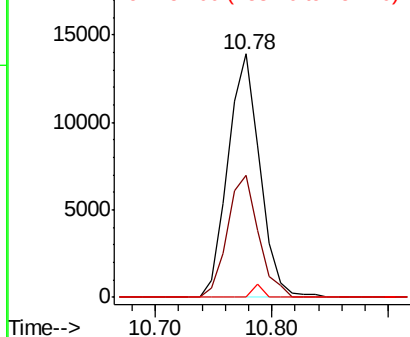
173 100

175 50.1 25.5 76.5

254 0.0 7.5 11.3#



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: 12.55 min Scan# 1209

Delta R.T. -0.02 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

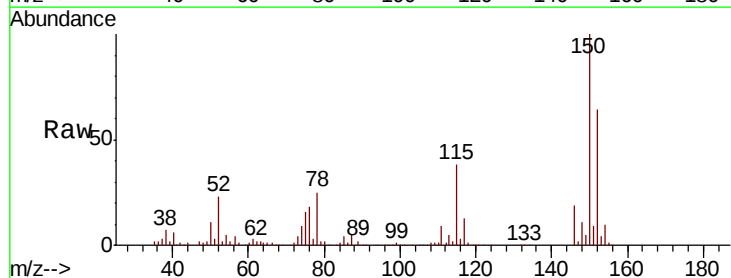
Tgt Ion:152 Resp: 144023

Ion Ratio Lower Upper

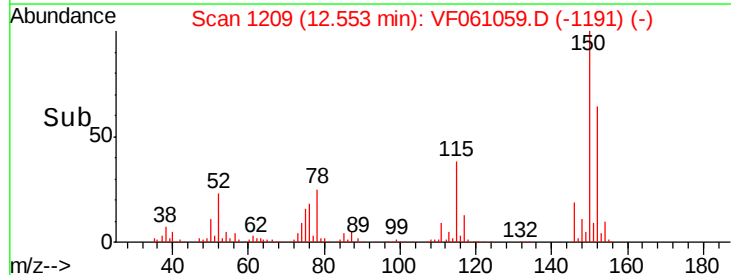
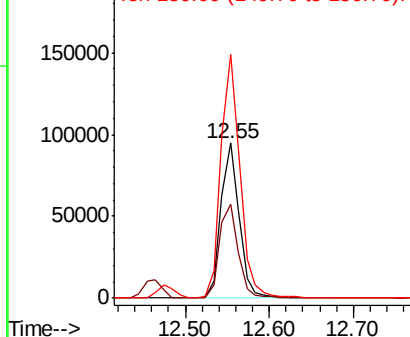
152 100

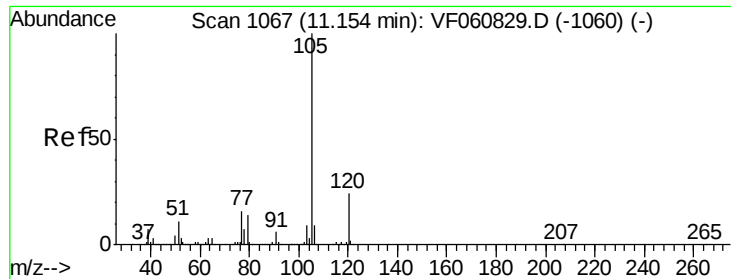
115 60.2 30.1 90.5

150 157.1 0.0 327.6



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: 24.056 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA_F

ClientSampleId :

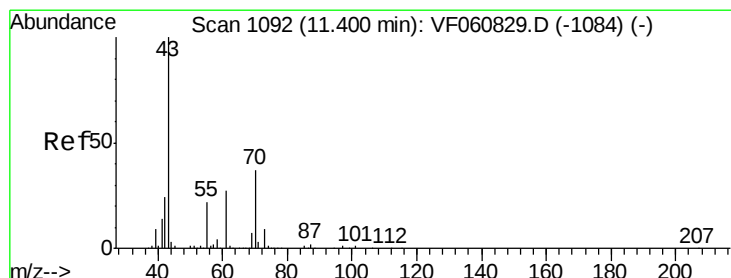
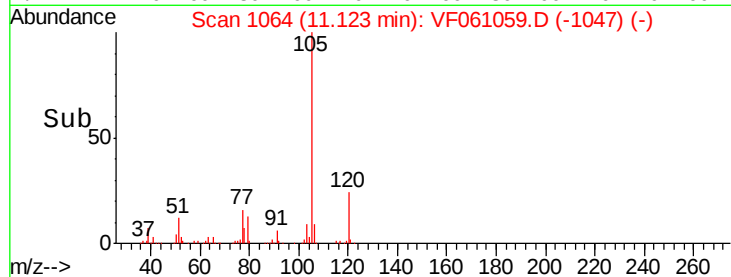
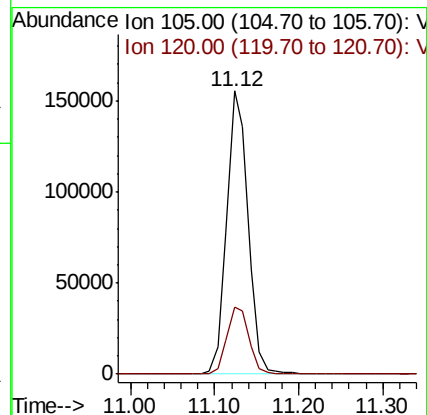
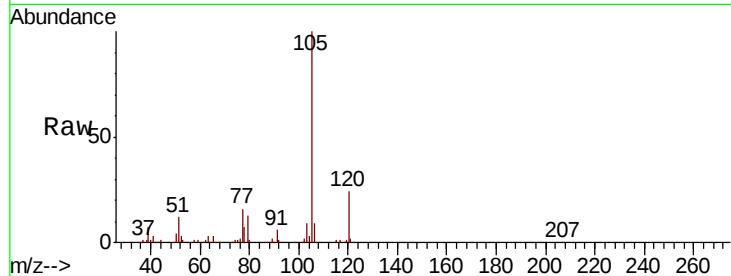
VF1218SBS02

Tot Ion:105 Resp: 273795

Ion Ratio Lower Upper

105 100

120 23.7 12.2 36.4



#74

N-ethyl acetate

Concen: 23.900 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Tgt Ion: 43 Resp: 62812

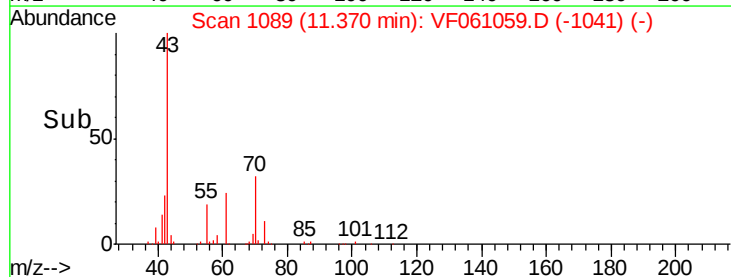
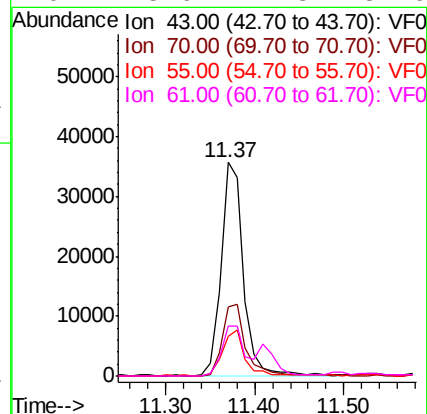
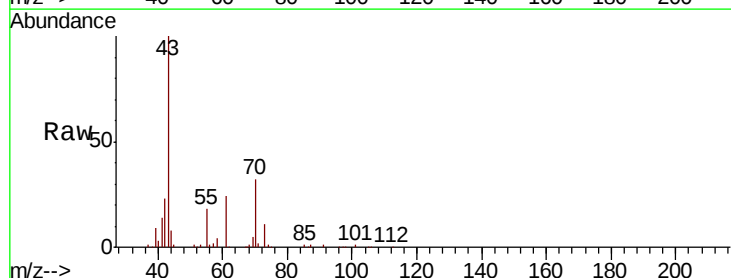
Ion Ratio Lower Upper

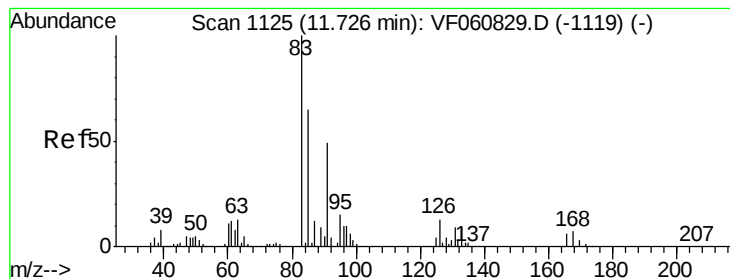
43 100

70 32.1 29.6 44.4

55 18.5 17.2 25.8

61 23.6 21.8 32.6





#75

1,1,2,2-Tetrachloroethane

Concen: 24.594 ug/l

RT: 11.70 min Scan# 1122

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA_F

ClientSampleId :

VF1218SBS02

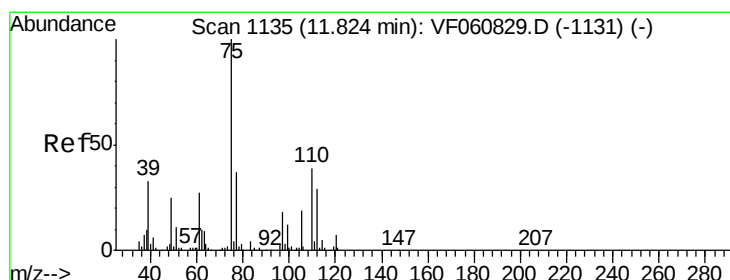
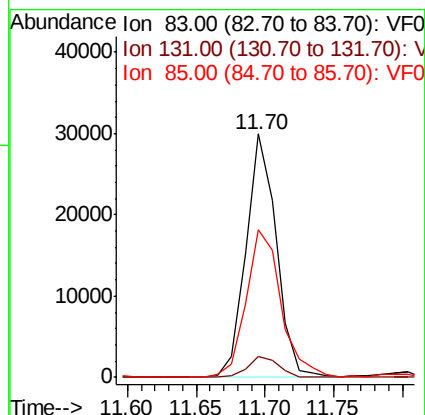
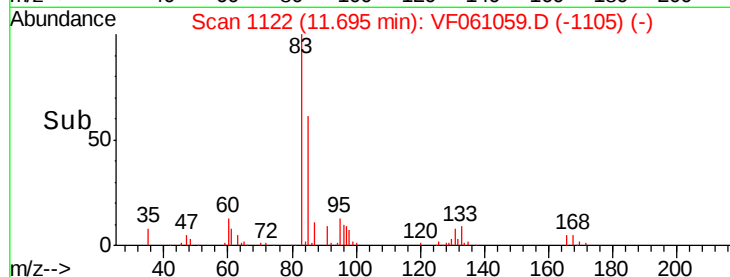
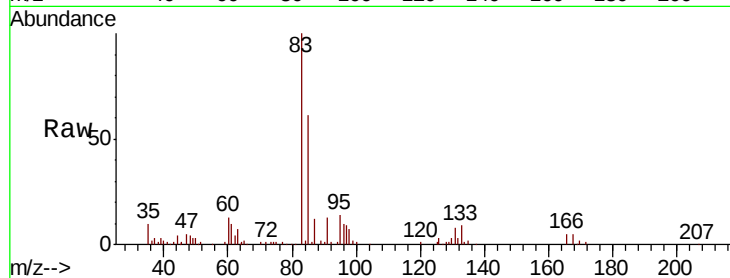
Tot Ion: 83 Resp: 46068

Ion Ratio Lower Upper

83 100

131 8.3 4.7 14.1

85 60.8 32.6 97.8



#76

1,2,3-Trichloropropane

Concen: 25.792 ug/l

RT: 11.79 min Scan# 1132

Delta R.T. -0.03 min

Lab File: VF061059.D

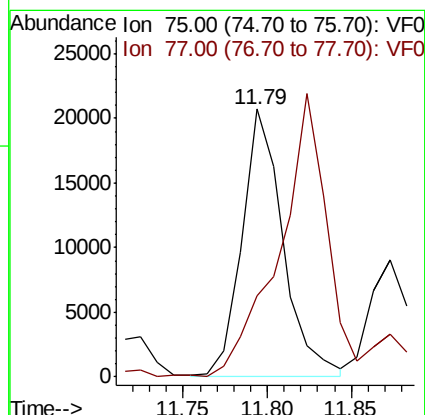
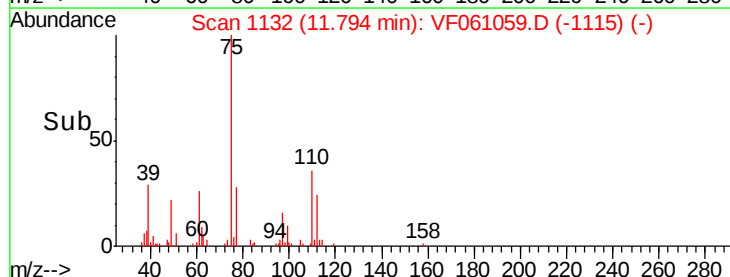
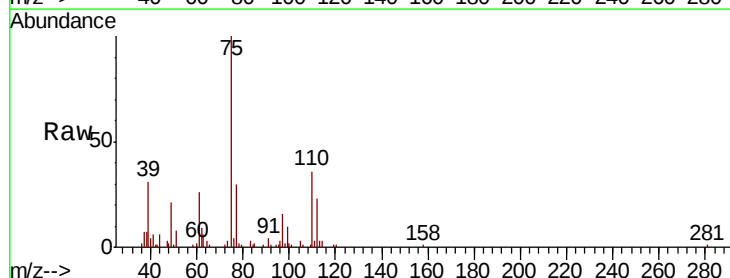
Acq: 18 Dec 2018 13:31

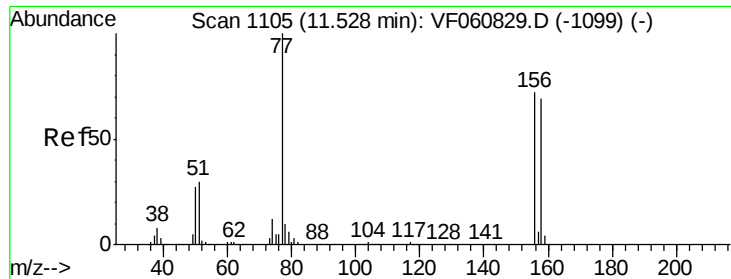
Tgt Ion: 75 Resp: 35116

Ion Ratio Lower Upper

75 100

77 30.3 18.4 55.4





#77

Bromobenzene

Concen: 22.840 ug/l

RT: 11.50 min Scan# 1102

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA_F

ClientSampleId :

VF1218SBS02

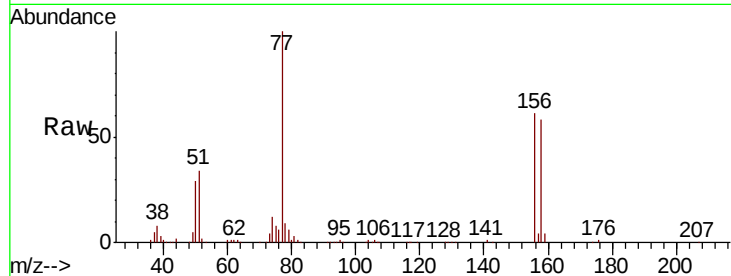
Tot Ion:156 Resp: 56992

Ion Ratio Lower Upper

156 100

77 164.7 69.7 209.0

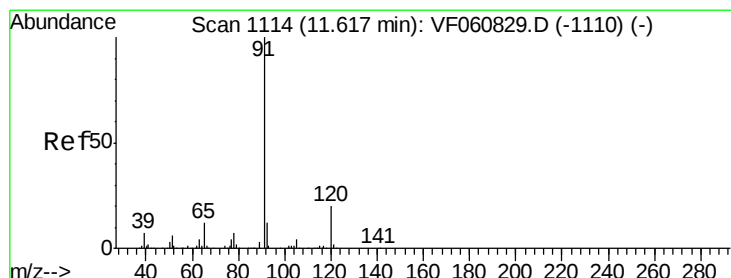
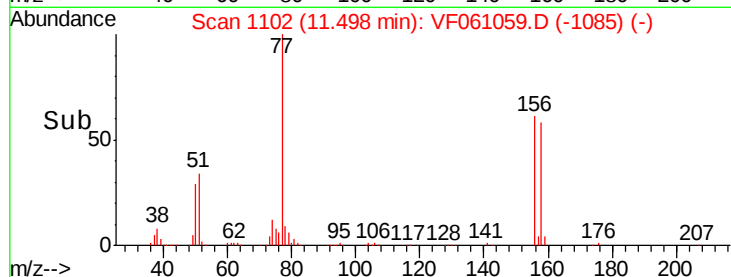
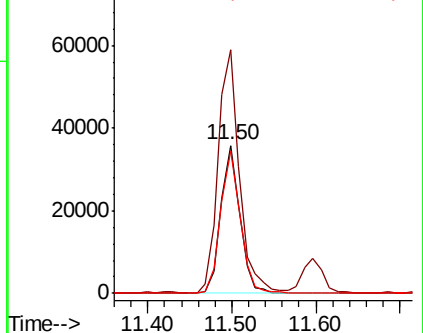
158 96.3 47.8 143.4



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: 24.552 ug/l

RT: 11.60 min Scan# 1112

Delta R.T. -0.02 min

Lab File: VF061059.D

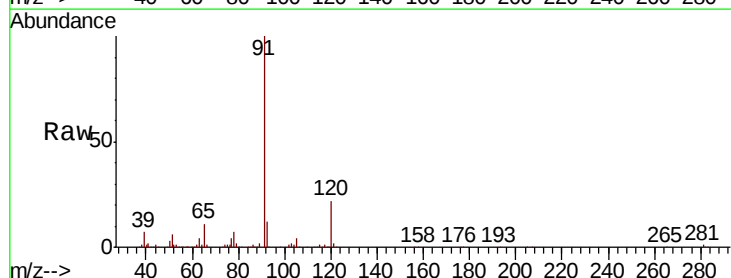
Acq: 18 Dec 2018 13:31

Tgt Ion: 91 Resp: 327244

Ion Ratio Lower Upper

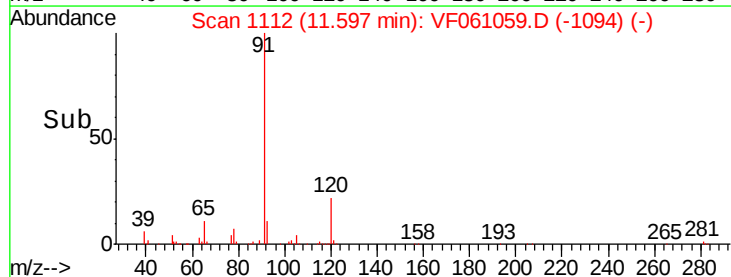
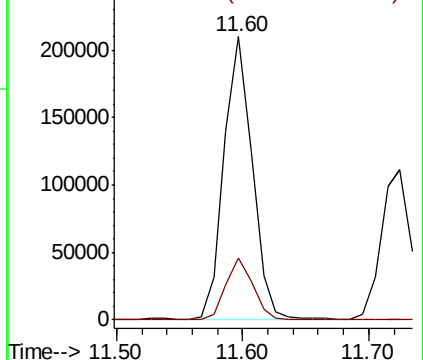
91 100

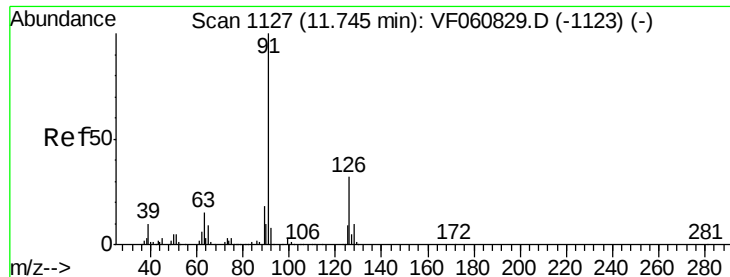
120 21.7 10.3 30.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

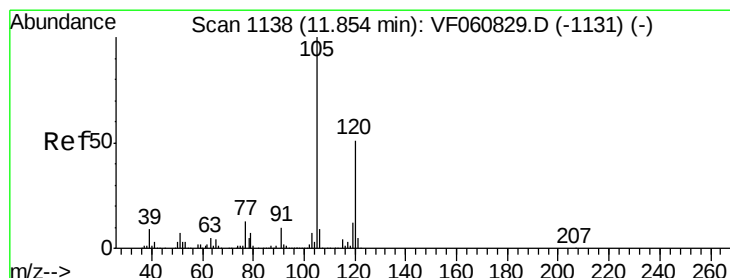
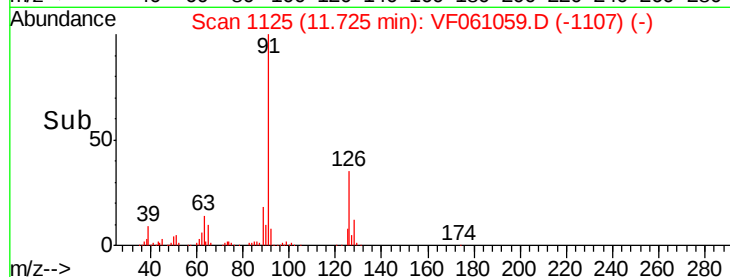
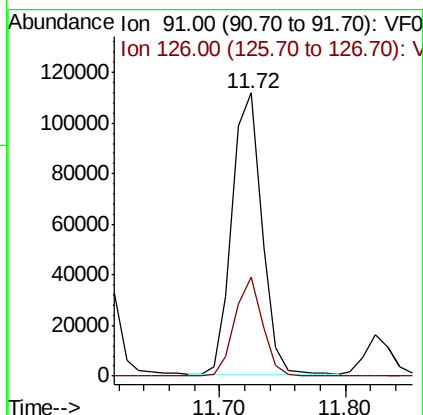
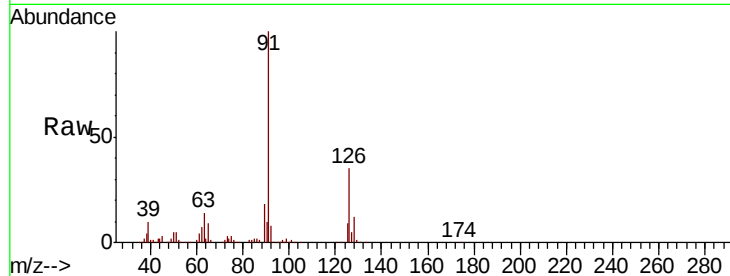




#79
 2-Chlorotoluene
 Concen: 23.844 ug/l
 RT: 11.72 min Scan# 1125
 Delta R.T. -0.02 min
 Lab File: VF061059.D
 Acq: 18 Dec 2018 13:31

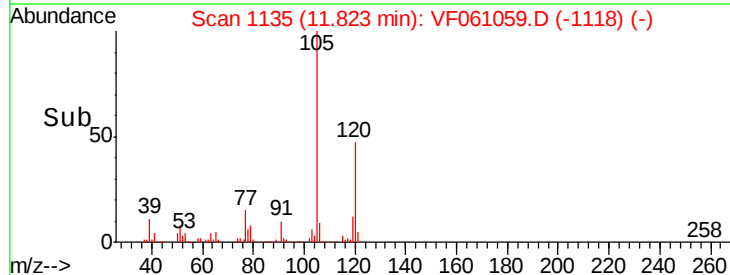
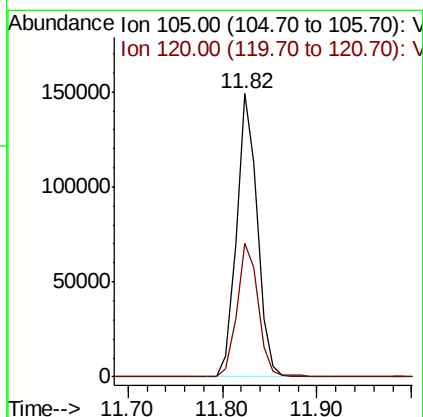
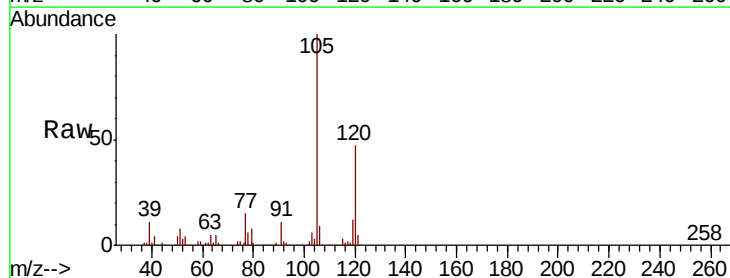
Instrument :
 MSVOA_F
 ClientSampleId :
 VF1218SBS02

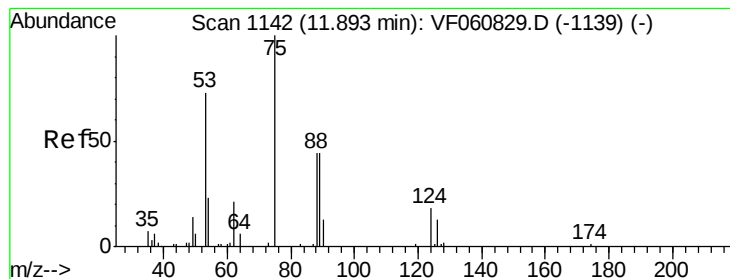
Tot Ion: 91 Resp: 182230
 Ion Ratio Lower Upper
 91 100
 126 34.8 15.9 47.6



#80
 1,3,5-Trimethylbenzene
 Concen: 24.606 ug/l
 RT: 11.82 min Scan# 1135
 Delta R.T. -0.03 min
 Lab File: VF061059.D
 Acq: 18 Dec 2018 13:31

Tgt Ion:105 Resp: 227355
 Ion Ratio Lower Upper
 105 100
 120 47.4 25.8 77.3





#81

trans-1,4-Dichloro-2-butene

Concen: 30.570 ug/l

RT: 11.87 min Scan# 1140

Delta R.T. -0.02 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA_F

ClientSampleId :

VF1218SBS02

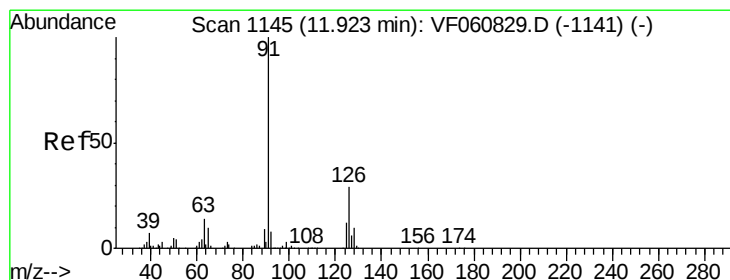
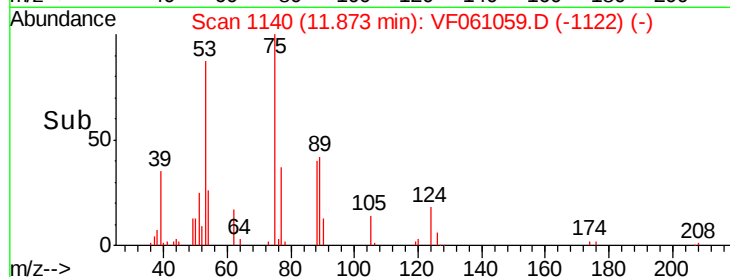
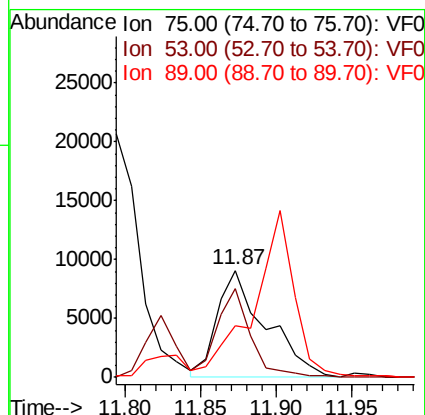
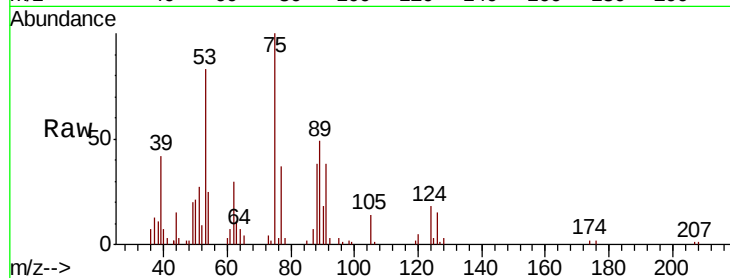
Tot Ion: 75 Resp: 20393

Ion Ratio Lower Upper

75 100

53 83.4 65.9 98.9

89 48.8 38.8 58.2



#82

4-Chlorotoluene

Concen: 24.423 ug/l

RT: 11.90 min Scan# 1143

Delta R.T. -0.02 min

Lab File: VF061059.D

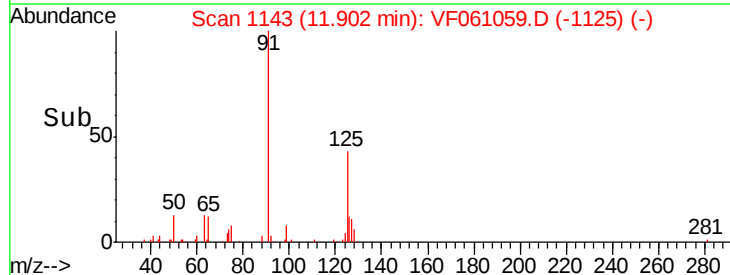
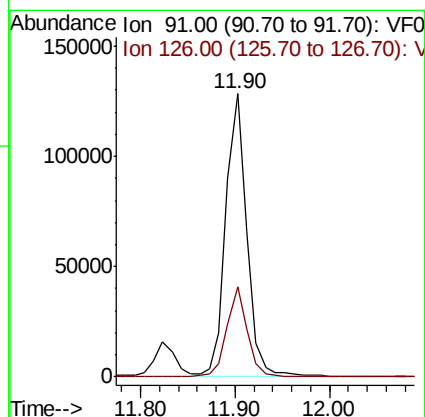
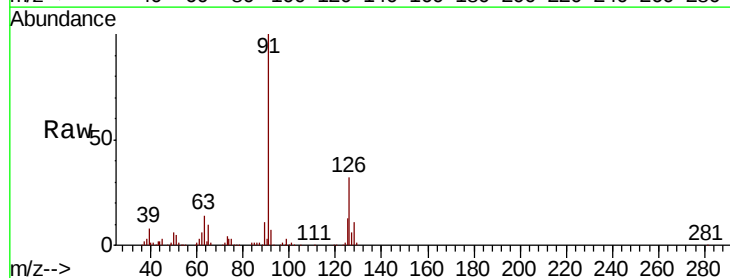
Acq: 18 Dec 2018 13:31

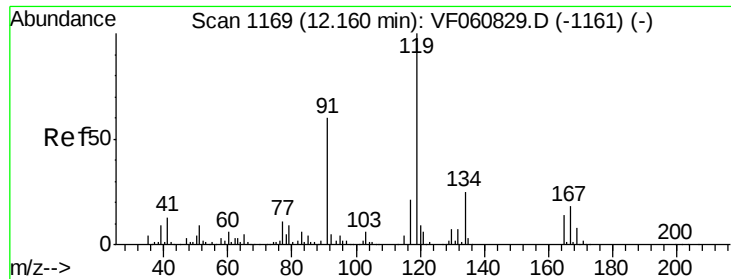
Tgt Ion: 91 Resp: 196431

Ion Ratio Lower Upper

91 100

126 31.9 14.8 44.4

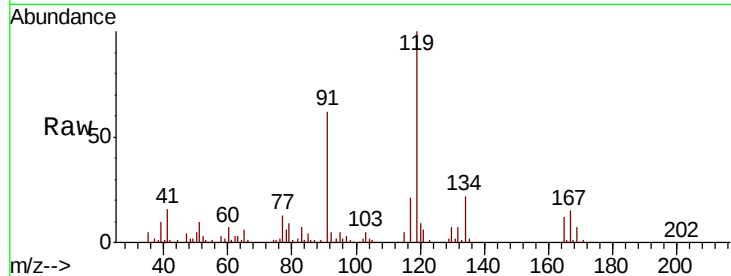




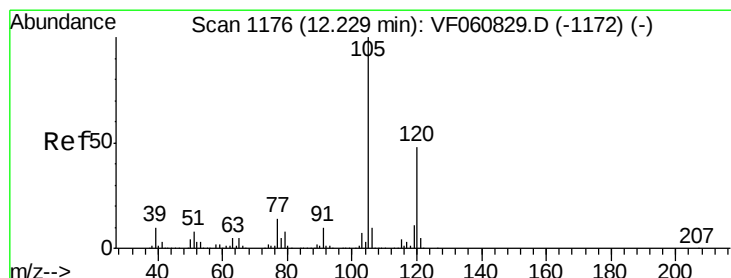
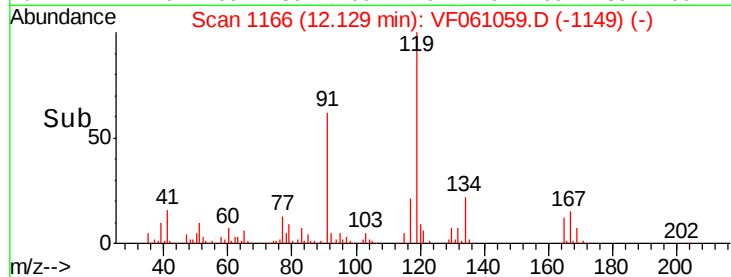
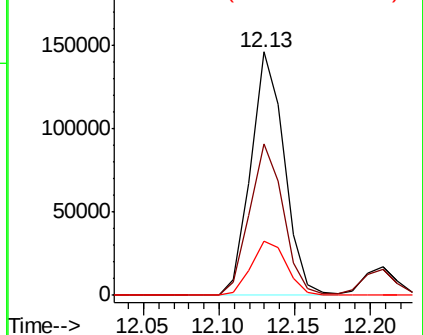
#83
tert-Butylbenzene
Concen: 24.093 ug/l
RT: 12.13 min Scan# 1166
Delta R.T. -0.03 min
Lab File: VF061059.D
Acq: 18 Dec 2018 13:31

Instrument :
MSVOA_F
ClientSampleId :
VF1218SBS02

Tot Ion:119 Resp: 226756
Ion Ratio Lower Upper
119 100
91 62.3 30.1 90.3
134 22.2 12.6 37.8

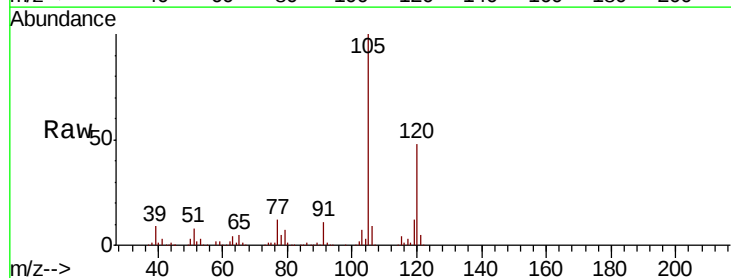


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): VF0
Ion 134.00 (133.70 to 134.70): V

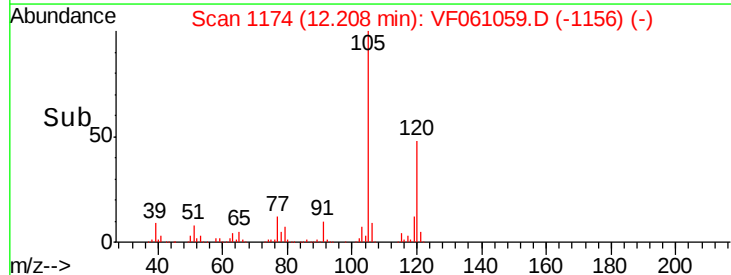
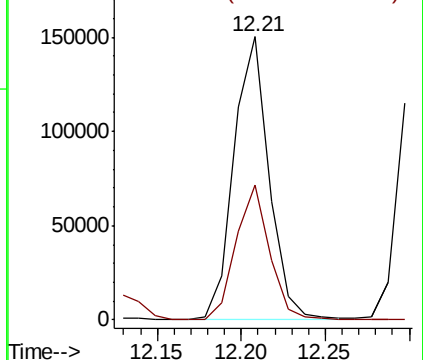


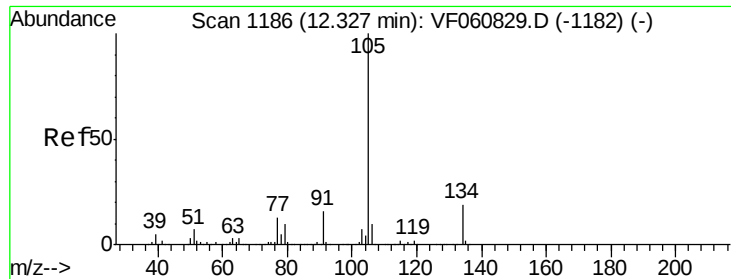
#84
1,2,4-Trimethylbenzene
Concen: 23.555 ug/l
RT: 12.21 min Scan# 1174
Delta R.T. -0.02 min
Lab File: VF061059.D
Acq: 18 Dec 2018 13:31

Tgt Ion:105 Resp: 217208
Ion Ratio Lower Upper
105 100
120 47.9 23.8 71.5



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

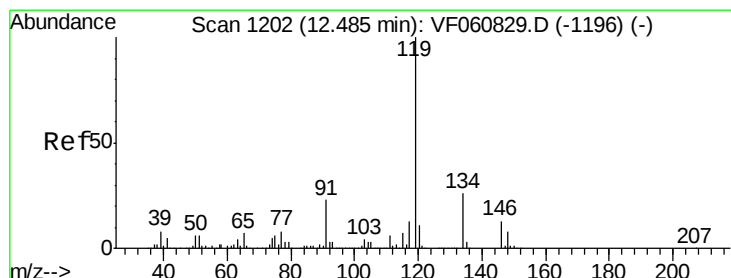
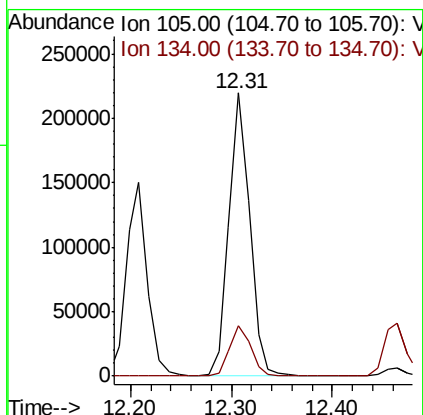
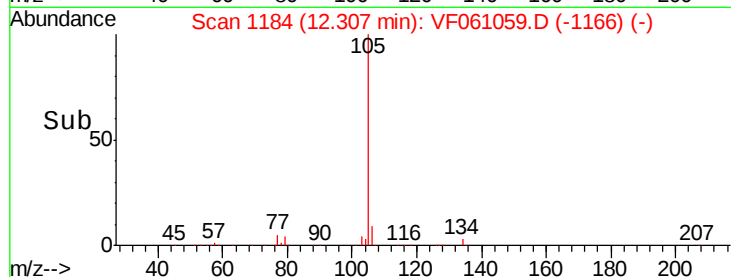
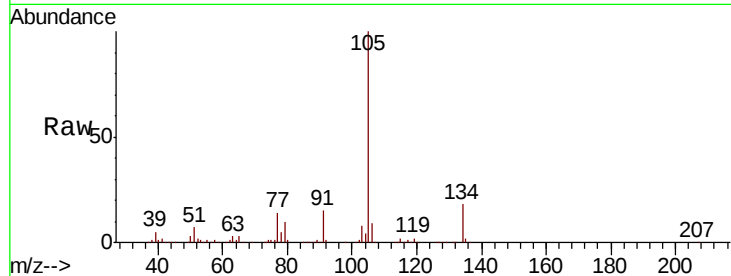




#85
 sec-Butylbenzene
 Concen: 24.505 ug/l
 RT: 12.31 min Scan# 1184
 Delta R.T. -0.02 min
 Lab File: VF061059.D
 Acq: 18 Dec 2018 13:31

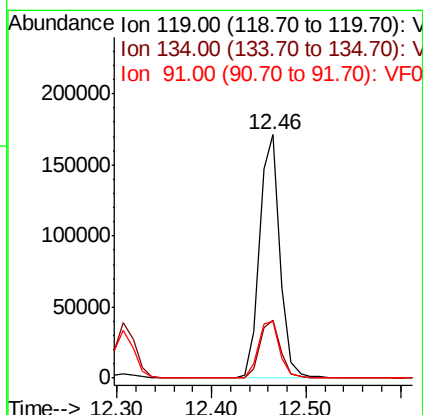
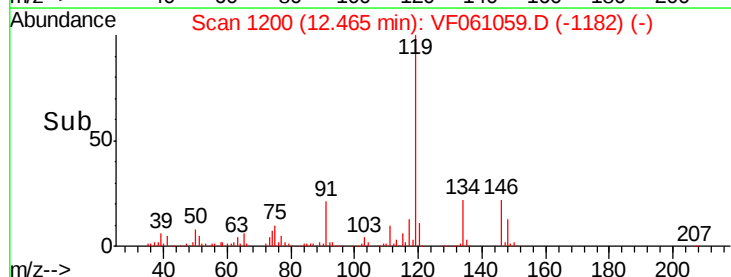
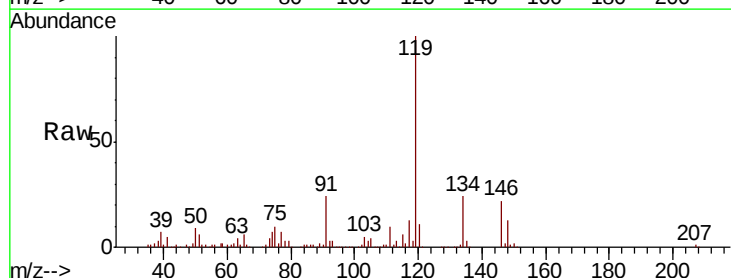
Instrument :
 MSVOA_F
 ClientSampleId :
 VF1218SBS02

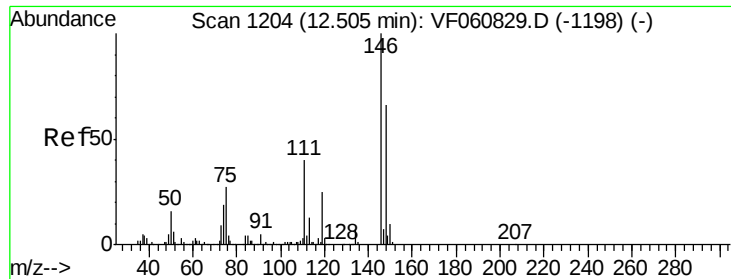
Tot Ion:105 Resp: 315724
 Ion Ratio Lower Upper
 105 100
 134 17.7 9.5 28.5



#86
 p-Isopropyltoluene
 Concen: 23.727 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.02 min
 Lab File: VF061059.D
 Acq: 18 Dec 2018 13:31

Tgt Ion:119 Resp: 256303
 Ion Ratio Lower Upper
 119 100
 134 24.0 12.9 38.6
 91 23.5 11.8 35.3





#87

1,3-Dichlorobenzene

Concen: 23.434 ug/l

RT: 12.47 min Scan# 1201

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA_F

ClientSampleId :

VF1218SBS02

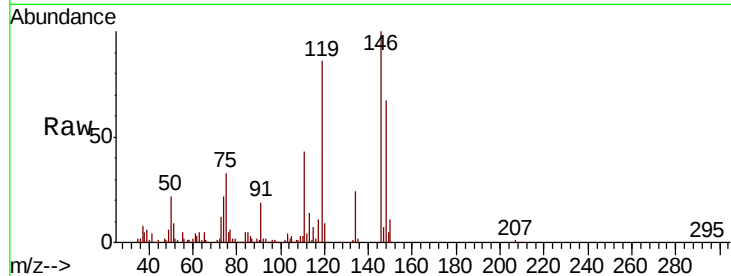
Tot Ion:146 Resp: 111226

Ion Ratio Lower Upper

146 100

111 42.7 20.0 59.9

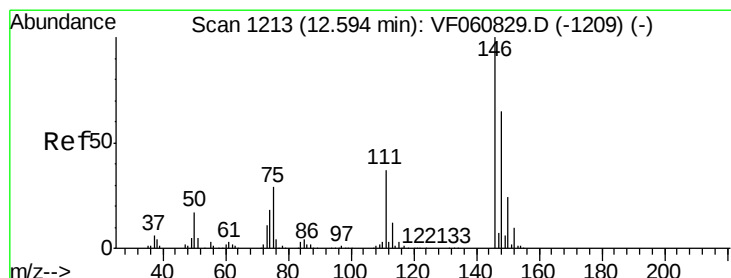
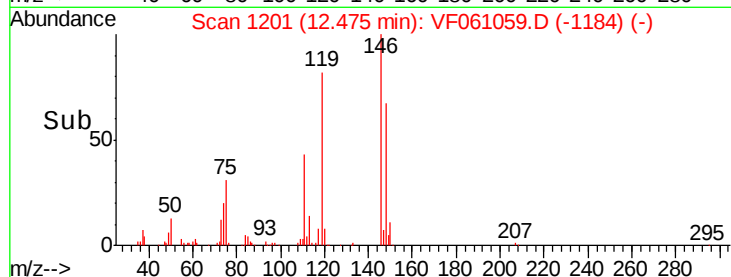
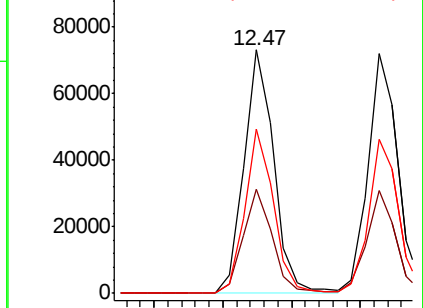
148 67.3 32.9 98.6



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



#88

1,4-Dichlorobenzene

Concen: 24.042 ug/l

RT: 12.56 min Scan# 1210

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

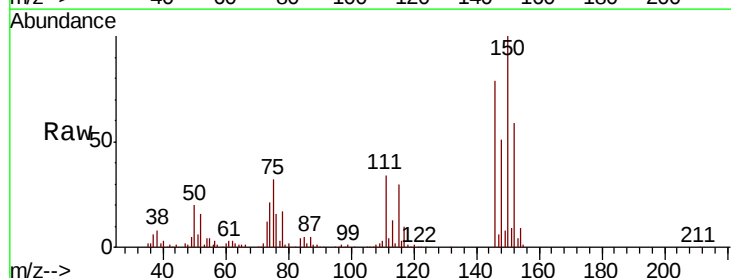
Tgt Ion:146 Resp: 111207

Ion Ratio Lower Upper

146 100

111 42.8 18.9 56.7

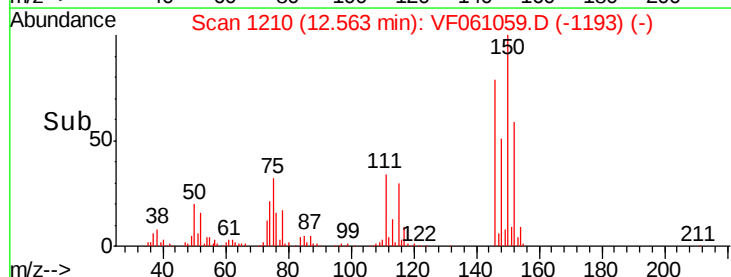
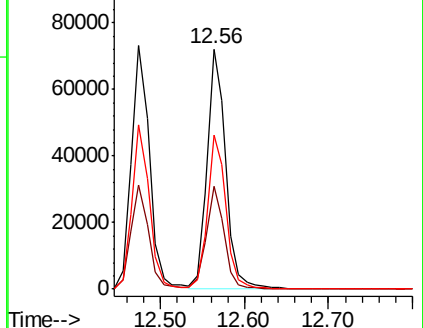
148 64.0 32.3 96.9

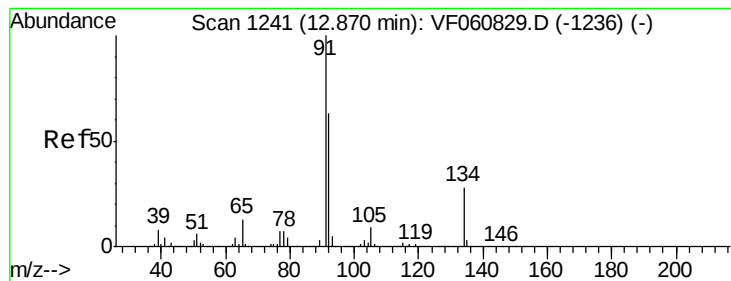


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#89

n-Butylbenzene

Concen: 24.653 ug/l

RT: 12.85 min Scan# 1239

Delta R.T. -0.02 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA_F

ClientSampleId :

VF1218SBS02

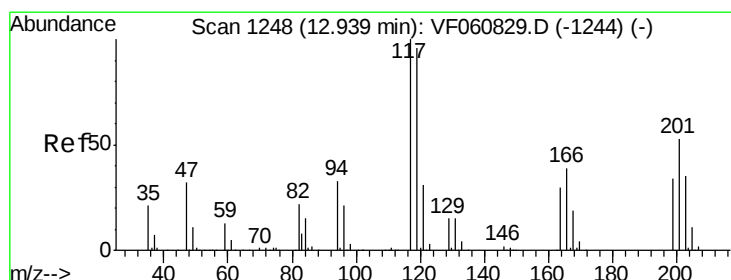
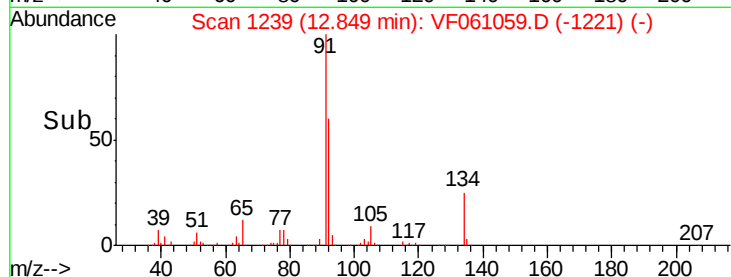
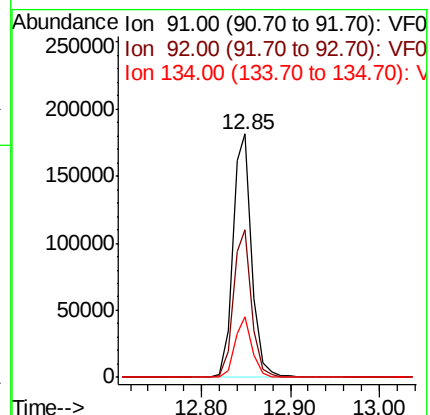
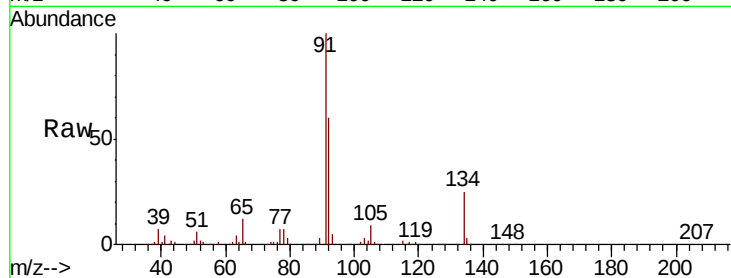
Tot Ion: 91 Resp: 269276

Ion Ratio Lower Upper

91 100

92 60.5 31.6 94.7

134 25.1 13.8 41.4



#90

Hexachloroethane

Concen: 23.006 ug/l

RT: 12.92 min Scan# 1246

Delta R.T. -0.02 min

Lab File: VF061059.D

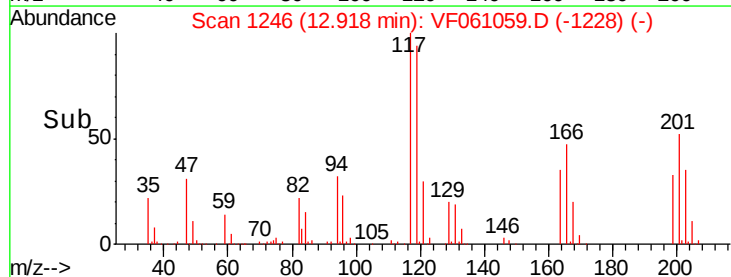
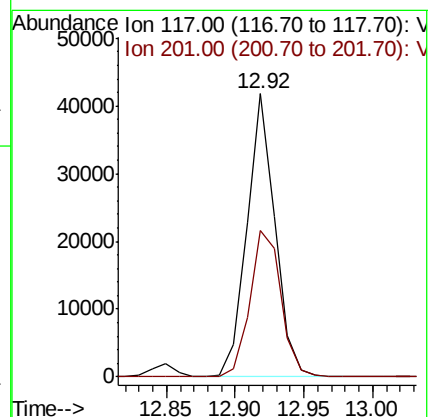
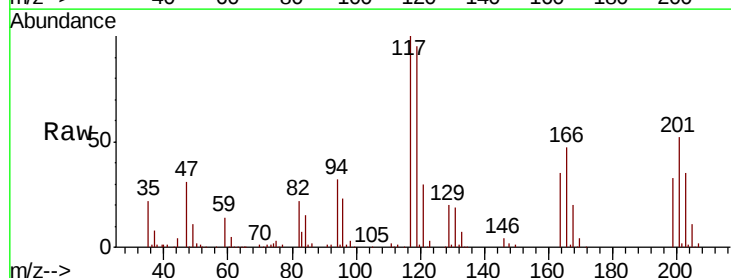
Acq: 18 Dec 2018 13:31

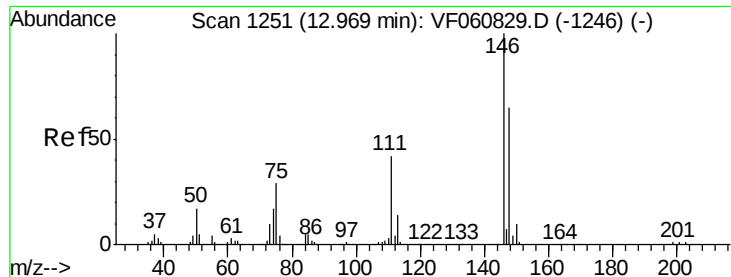
Tgt Ion: 117 Resp: 59842

Ion Ratio Lower Upper

117 100

201 51.6 26.7 80.1





#91

1,2-Dichlorobenzene

Concen: 22.597 ug/l

RT: 12.95 min Scan# 1249

Delta R.T. -0.02 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA_F

ClientSampleId :

VF1218SBS02

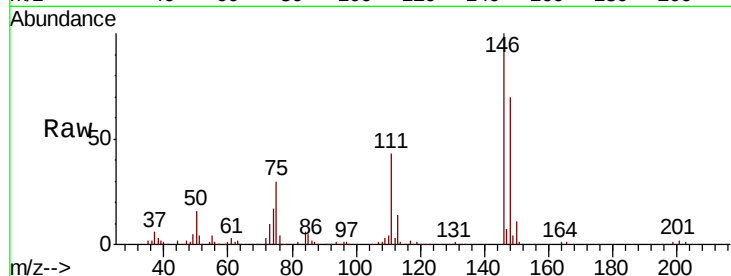
Tot Ion:146 Resp: 101570

Ion Ratio Lower Upper

146 100

111 42.6 21.2 63.6

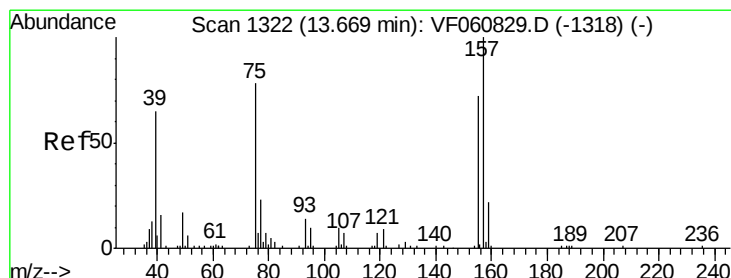
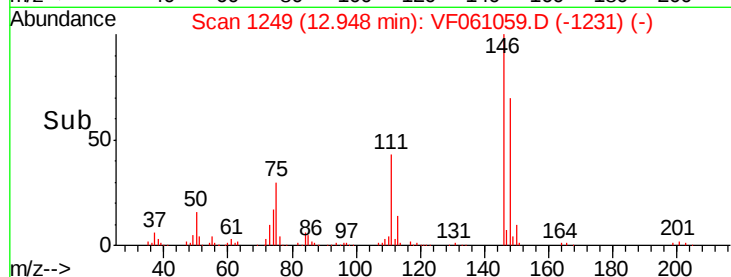
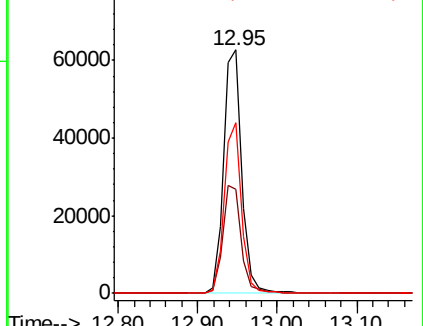
148 70.2 32.5 97.5



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: 23.349 ug/l

RT: 13.65 min Scan# 1320

Delta R.T. -0.02 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

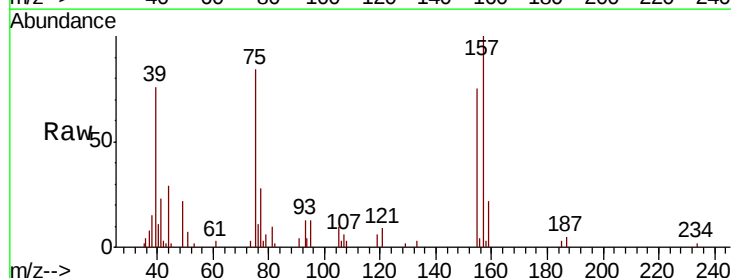
Tgt Ion: 75 Resp: 8456

Ion Ratio Lower Upper

75 100

155 89.3 45.6 136.9

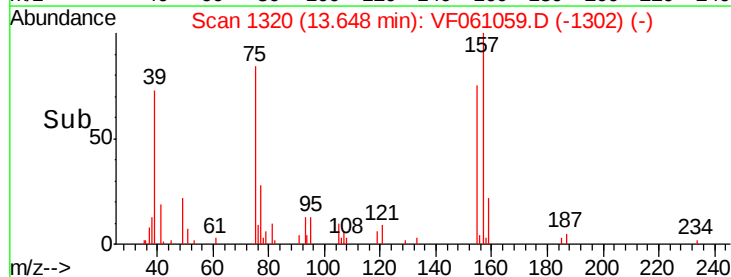
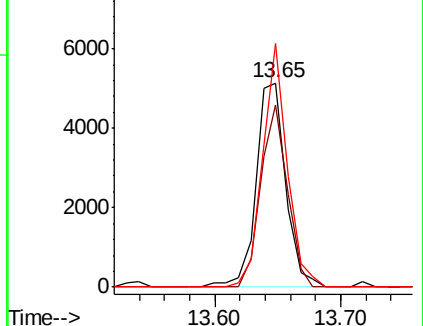
157 119.2 63.8 191.5

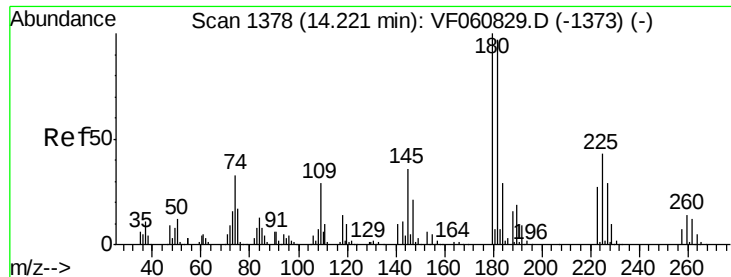


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

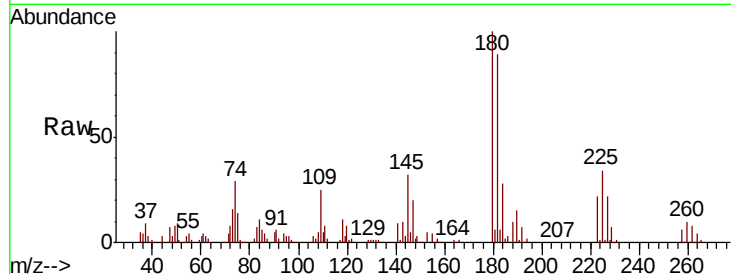




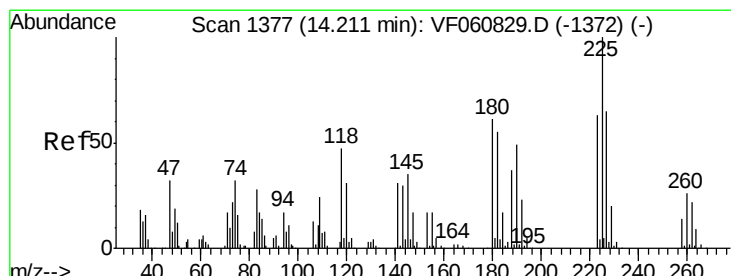
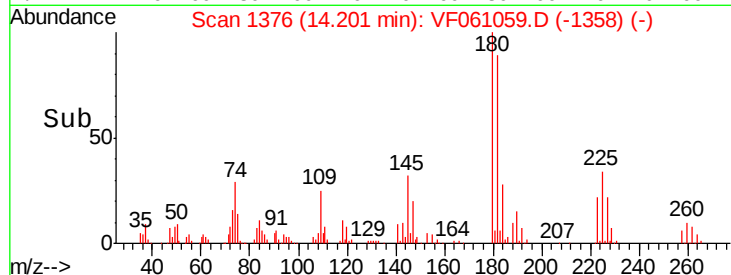
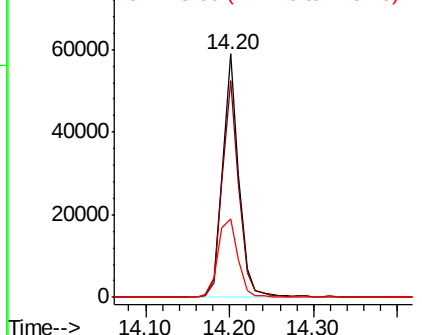
#93
 1,2,4-Trichlorobenzene
 Concen: 25.244 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.02 min
 Lab File: VF061059.D
 Acq: 18 Dec 2018 13:31

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1218SBS02

Tot Ion:180 Resp: 79281
 Ion Ratio Lower Upper
 180 100
 182 88.8 48.5 145.5
 145 32.1 18.1 54.3

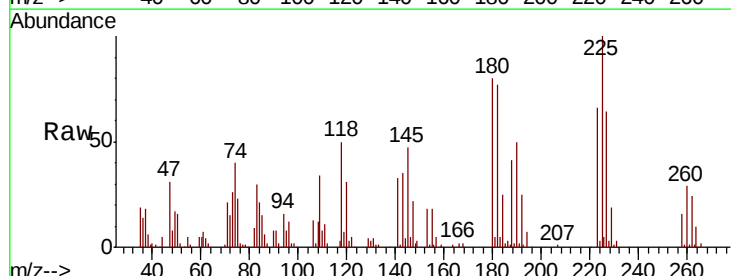


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

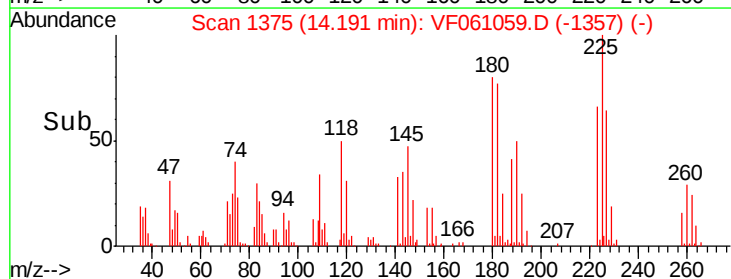
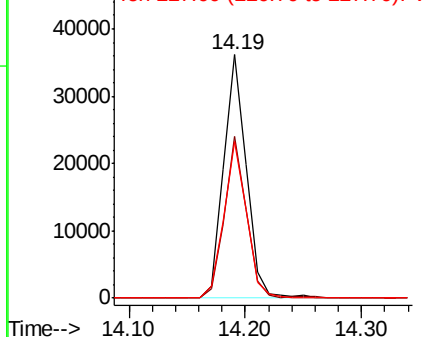


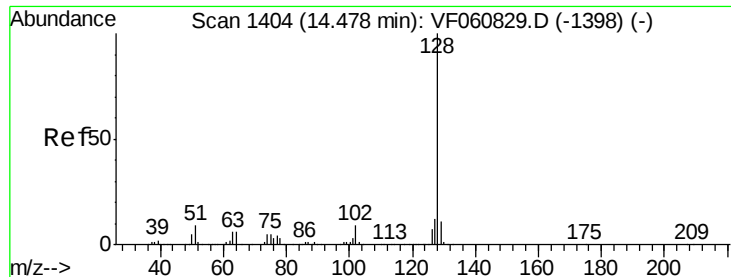
#94
 Hexachlorobutadiene
 Concen: 23.401 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.02 min
 Lab File: VF061059.D
 Acq: 18 Dec 2018 13:31

Tgt Ion:225 Resp: 48991
 Ion Ratio Lower Upper
 225 100
 223 66.5 31.4 94.3
 227 64.3 32.5 97.5



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

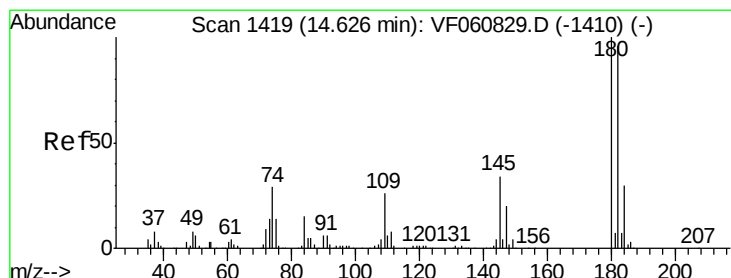
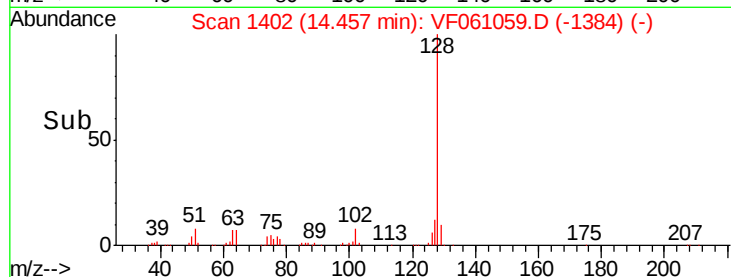
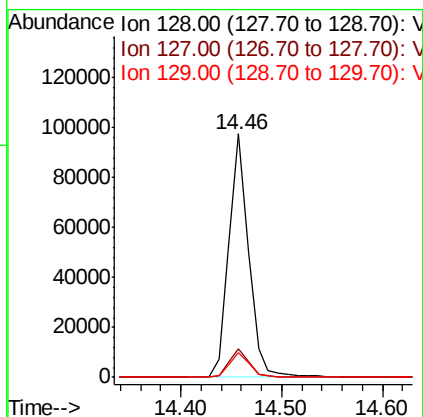
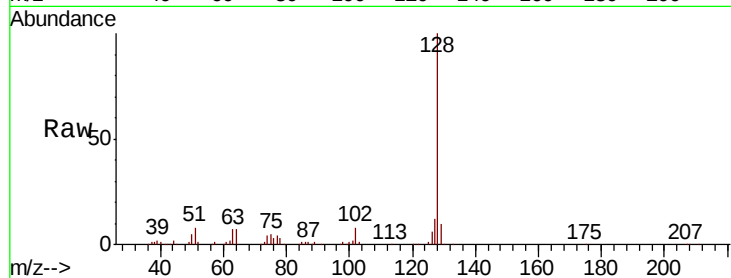




#95
Naphthalene
Concen: 19.693 ug/l
RT: 14.46 min Scan# 1402
Delta R.T. -0.02 min
Lab File: VF061059.D
Acq: 18 Dec 2018 13:31

Instrument :
MSVOA_F
ClientSampleId :
VF1218SBS02

Tot Ion:128 Resp: 132969
Ion Ratio Lower Upper
128 100
127 11.5 9.9 14.9
129 10.3 9.1 13.7



#96
1,2,3-Trichlorobenzene
Concen: 23.440 ug/l
RT: 14.61 min Scan# 1417
Delta R.T. -0.02 min
Lab File: VF061059.D
Acq: 18 Dec 2018 13:31

Tgt Ion:180 Resp: 68354
Ion Ratio Lower Upper
180 100
182 95.7 47.9 143.8
145 35.6 17.2 51.5

