

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121218\
 Data File : VF060999.D
 Acq On : 12 Dec 2018 16:49
 Operator : VA/AP
 Sample : VF1212SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1212SBS02

Quant Time: Dec 13 01:24:54 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	4.86	168	182549	50.00	ug/l	-0.05
34) 1,4-Difluorobenzene	5.59	114	290861	50.00	ug/l	-0.05
63) Chlorobenzene-d5	9.77	117	273929	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.55	152	145261	50.00	ug/l	-0.03

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.84	65	105064	48.86	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	97.72%	
35) Dibromofluoromethane	4.10	113	126597	54.86	ug/l	-0.05
Spiked Amount	50.000		Recovery	=	109.72%	
50) Toluene-d8	7.55	98	319160	46.96	ug/l	-0.05
Spiked Amount	50.000		Recovery	=	93.92%	
62) 4-Bromofluorobenzene	11.40	95	154921	50.15	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	100.30%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	0.96	85	53344	19.544	ug/l 97
3) Chloromethane	1.10	50	40167	22.615	ug/l 90
4) Vinyl Chloride	1.14	62	35957	21.704	ug/l 93
5) Bromomethane	1.34	94	25776	22.064	ug/l 90
6) Chloroethane	1.38	64	16115	22.502	ug/l 97
7) Trichlorofluoromethane	1.42	101	8995	2.530	ug/l 94
8) Diethyl Ether	1.63	74	10387	20.321	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	1.83	101	39213	21.821	ug/l 96
10) Methyl Iodide	1.90	142	52635	19.269	ug/l 96
11) Tert butyl alcohol	2.57	59	9967	113.064	ug/l # 69
12) 1,1-Dichloroethene	1.79	96	29866	20.662	ug/l 87
13) Acrolein	2.00	56	5709	68.353	ug/l 87
14) Allyl chloride	2.09	41	33071	18.356	ug/l 94
15) Acrylonitrile	2.94	53	21335	107.952	ug/l 99
16) Acetone	2.24	43	48783	123.015	ug/l 97
17) Carbon Disulfide	1.83	76	82931	21.398	ug/l 98
18) Methyl Acetate	2.34	43	20057	29.469	ug/l 94
19) Methyl tert-butyl Ether	2.43	73	69529	21.357	ug/l 95
20) Methylene Chloride	2.25	84	23143	15.908	ug/l 93
21) trans-1,2-Dichloroethene	2.30	96	22774	16.343	ug/l 94
22) Diisopropyl ether	2.79	45	111363	22.709	ug/l 95
23) Vinyl Acetate	3.19	43	262343	117.031	ug/l 99
24) 1,1-Dichloroethane	2.87	63	63481	21.757	ug/l 98
25) 2-Butanone	4.33	43	78055	113.797	ug/l 99
26) 2,2-Dichloropropane	3.59	77	40444	21.381	ug/l 96
27) cis-1,2-Dichloroethene	3.47	96	48916	21.562	ug/l 95
28) Bromochloromethane	3.71	49	32604	23.284	ug/l 98
29) Tetrahydrofuran	4.07	42	33024	113.583	ug/l 94
30) Chloroform	3.86	83	96797	21.556	ug/l 98
31) Cyclohexane	3.68	56	37927	12.525	ug/l 95
32) 1,1,1-Trichloroethane	4.09	97	60399	19.395	ug/l 94
36) 1,1-Dichloropropene	4.27	75	74495	23.091	ug/l 96
37) Ethyl Acetate	4.10	43	30704	23.420	ug/l # 96
38) Carbon Tetrachloride	3.97	117	59348	20.828	ug/l 100

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Instrument :
 MSVOA_F
 ClientSampleId :
 VF1212SBS02

Quant Time: Dec 13 01:24:54 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)
39) Methylcyclohexane	5.44	83	69340	20.509	ug/l	92
40) Benzene	4.63	78	159232	22.342	ug/l	97
41) Methacrylonitrile	4.74	41	16939	22.849	ug/l #	83
42) 1,2-Dichloroethane	4.94	62	63081	24.243	ug/l	100
43) Isopropyl Acetate	6.95	43	36308	20.861	ug/l #	91
44) Trichloroethene	5.49	130	54526	23.398	ug/l	98
45) 1,2-Dichloropropane	6.23	63	41718	22.538	ug/l	99
46) Dibromomethane	6.09	93	27421	21.838	ug/l	92
47) Bromodichloromethane	6.38	83	76261	22.866	ug/l	100
48) Methyl methacrylate	6.71	41	25141	21.186	ug/l	96
49) 1,4-Dioxane	6.71	88	4001	460.675	ug/l #	93
51) 4-Methyl-2-Pentanone	8.26	43	135081	111.733	ug/l	97
52) Toluene	7.61	92	101652	20.305	ug/l	90
53) t-1,3-Dichloropropene	8.27	75	57765	21.294	ug/l	97
54) cis-1,3-Dichloropropene	7.30	75	74223	22.101	ug/l	97
55) 1,1,2-Trichloroethane	8.48	97	31187	21.379	ug/l	98
56) Ethyl methacrylate	8.62	69	33611	20.741	ug/l	96
57) 1,3-Dichloropropane	8.85	76	60100	23.549	ug/l #	87
58) 2-Chloroethyl Vinyl ether	7.29	63	32545	196.347	ug/l	94
59) 2-Hexanone	9.49	43	95454	112.542	ug/l	93
60) Dibromochloromethane	8.71	129	45959	21.145	ug/l	100
61) 1,2-Dibromoethane	8.99	107	33758	21.422	ug/l	99
64) Tetrachloroethene	8.15	164	44174	21.113	ug/l	98
65) Chlorobenzene	9.79	112	119393	22.404	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.92	131	51370	22.423	ug/l	98
67) Ethyl Benzene	9.89	91	227651	22.947	ug/l	100
68) m/p-Xylenes	10.13	106	156697	43.915	ug/l	97
69) o-Xylene	10.71	106	87644	22.275	ug/l	98
70) Styrene	10.79	104	119755	21.956	ug/l	98
71) Bromoform	10.77	173	22674	20.490	ug/l	93
73) Isopropylbenzene	11.13	105	262205	22.841	ug/l	99
74) N-amyl acetate	11.37	43	59016	22.264	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.69	83	43016	22.769	ug/l	99
76) 1,2,3-Trichloropropane	11.80	75	30955	22.542	ug/l	98
77) Bromobenzene	11.49	156	55095	21.892	ug/l	83
78) n-propylbenzene	11.59	91	309334	23.011	ug/l	98
79) 2-Chlorotoluene	11.72	91	172046	22.320	ug/l	97
80) 1,3,5-Trimethylbenzene	11.83	105	208606	22.385	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.87	75	19166	28.486	ug/l	100
82) 4-Chlorotoluene	11.90	91	179556	22.135	ug/l	94
83) tert-Butylbenzene	12.13	119	218390	23.006	ug/l	97
84) 1,2,4-Trimethylbenzene	12.20	105	212518	22.850	ug/l	99
85) sec-Butylbenzene	12.30	105	289454	22.274	ug/l	97
86) p-Isopropyltoluene	12.46	119	252891	23.212	ug/l	99
87) 1,3-Dichlorobenzene	12.47	146	110113	23.002	ug/l	97
88) 1,4-Dichlorobenzene	12.57	146	102532	21.978	ug/l	98
89) n-Butylbenzene	12.84	91	255346	23.179	ug/l	97
90) Hexachloroethane	12.91	117	58341	22.238	ug/l	97
91) 1,2-Dichlorobenzene	12.94	146	101743	22.443	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.64	75	8695	23.805	ug/l	70

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Instrument :
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ClientSampleId :
VF1212SBS02

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Quant Title : SW846 8260
QLast Update : Tue Nov 27 01:36:26 2018
Response via : Initial Calibration

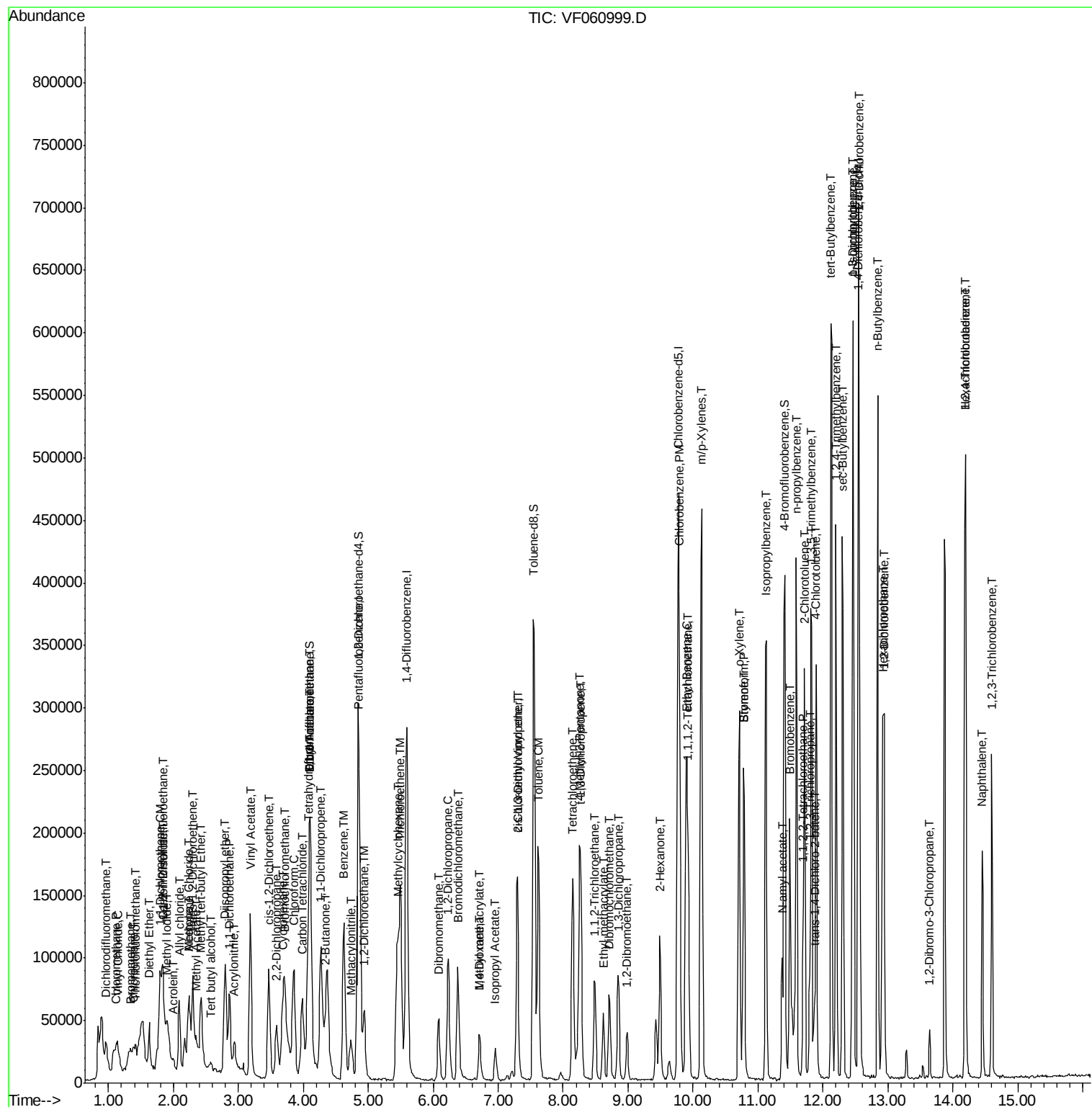
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	74508	23.522	ug/l	96
94) Hexachlorobutadiene	14.18	225	47020	22.268	ug/l	94
95) Naphthalene	14.45	128	130008	18.975	ug/l	99
96) 1,2,3-Trichlorobenzene	14.60	180	66618	22.650	ug/l	97

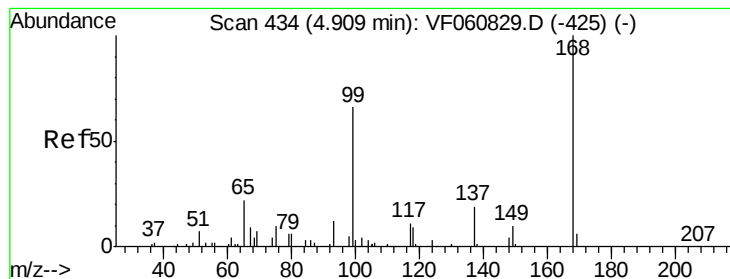
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Nov 27 01:36:26 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.05 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

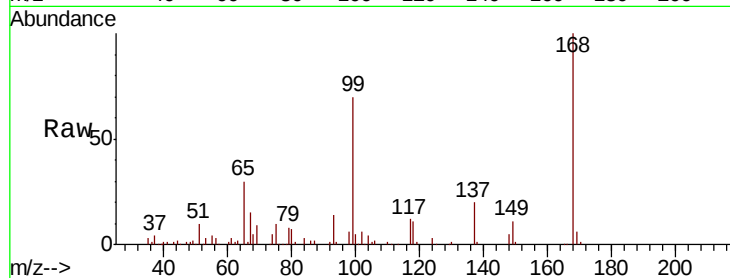
VF1212SBS02

Tot Ion:168 Resp: 182549

Ion Ratio Lower Upper

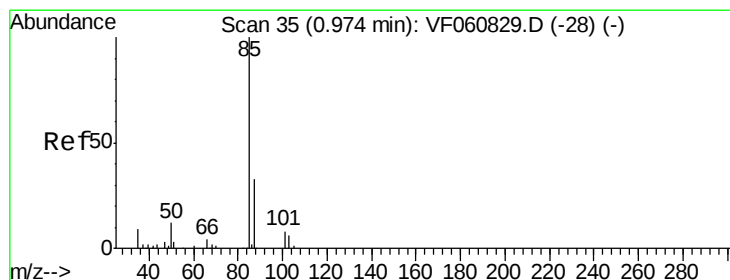
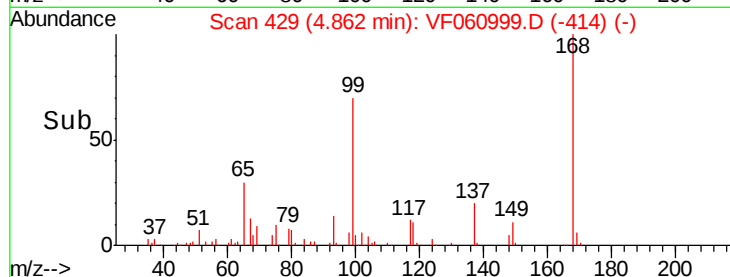
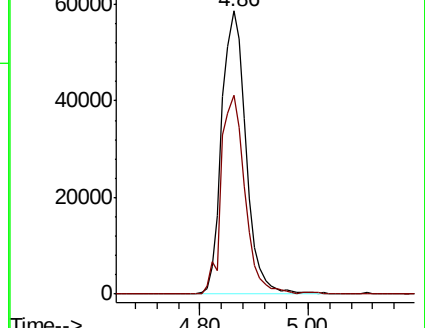
168 100

99 70.1 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 19.544 ug/l

RT: 0.96 min Scan# 33

Delta R.T. -0.02 min

Lab File: VF060999.D

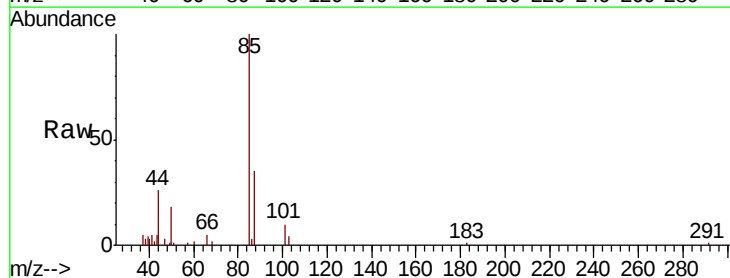
Acq: 12 Dec 2018 16:49

Tgt Ion: 85 Resp: 53344

Ion Ratio Lower Upper

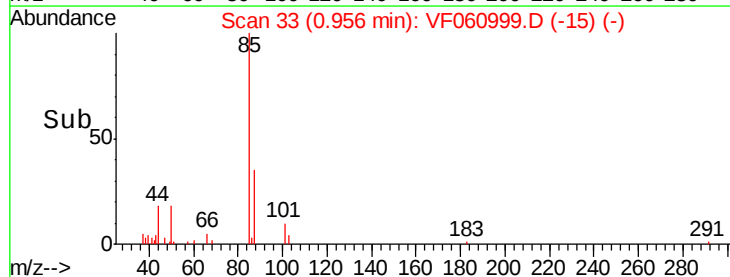
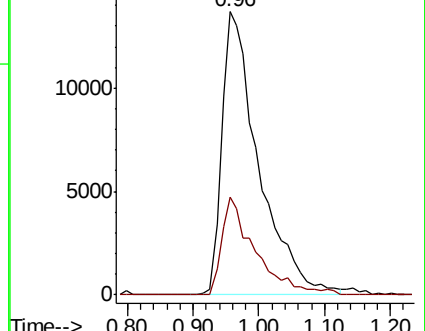
85 100

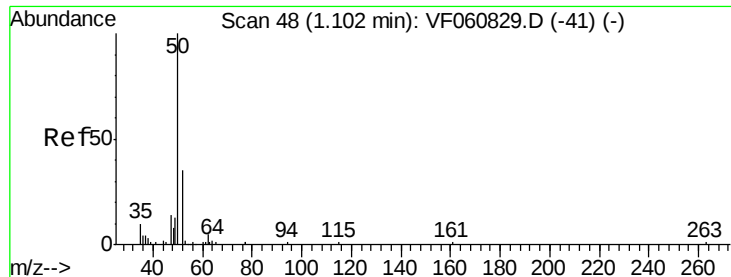
87 34.7 16.7 50.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 22.615 ug/l

RT: 1.10 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

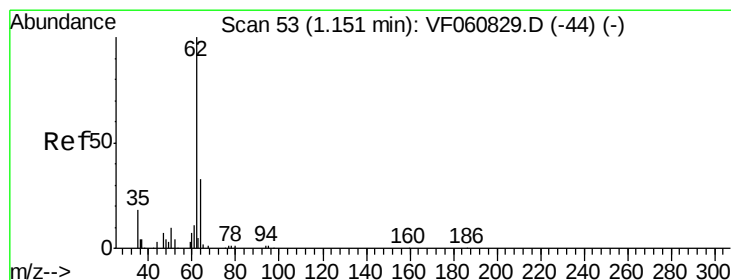
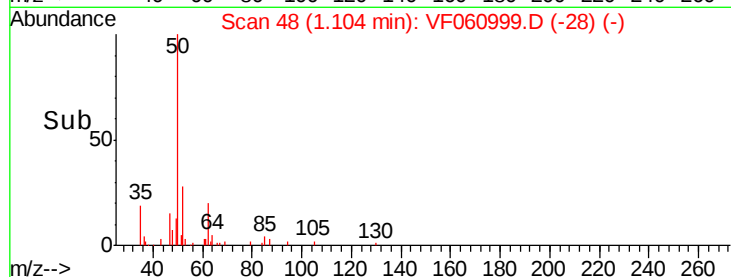
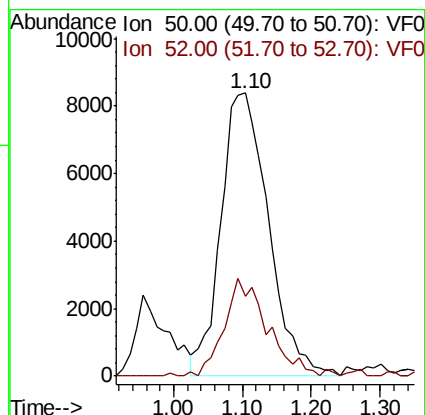
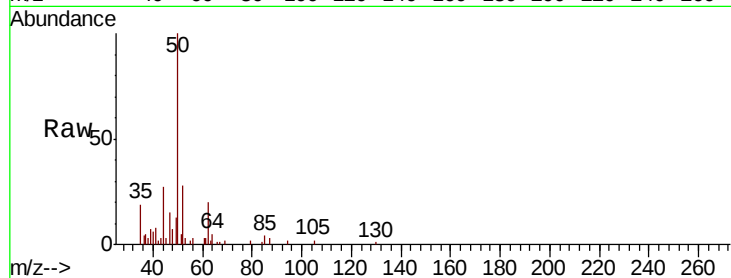
VF1212SBS02

Tot Ion: 50 Resp: 40167

Ion Ratio Lower Upper

50 100

52 28.1 27.0 40.4



#4

Vinyl Chloride

Concen: 21.704 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.01 min

Lab File: VF060999.D

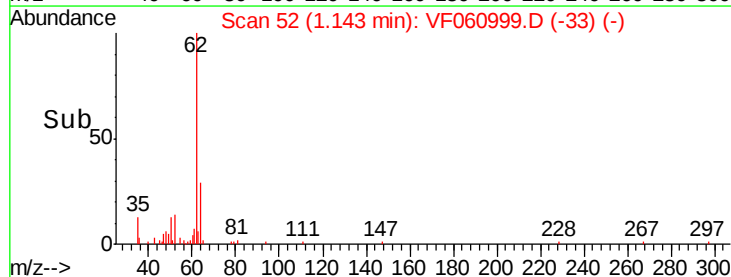
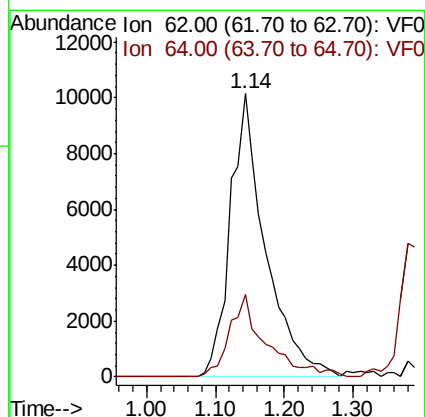
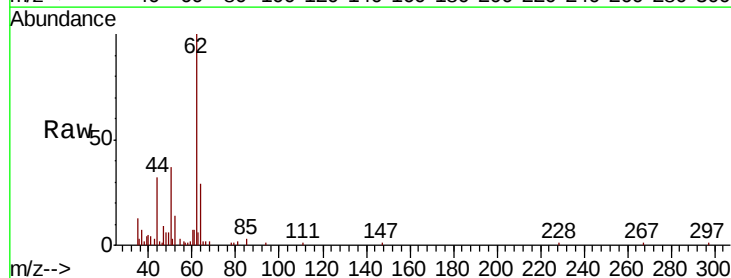
Acq: 12 Dec 2018 16:49

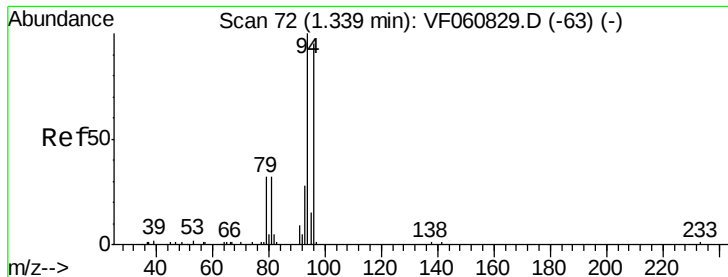
Tgt Ion: 62 Resp: 35957

Ion Ratio Lower Upper

62 100

64 29.2 26.4 39.6





#5

Bromomethane

Concen: 22.064 ug/l

RT: 1.34 min Scan# 72

Delta R.T. 0.00 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

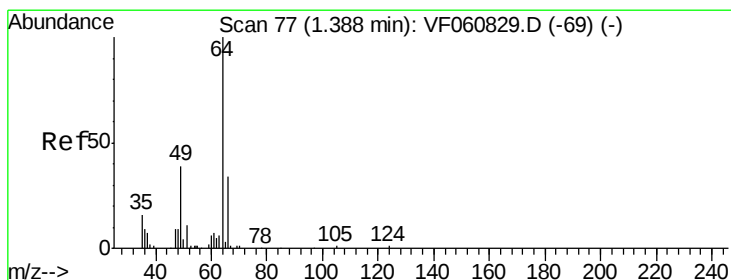
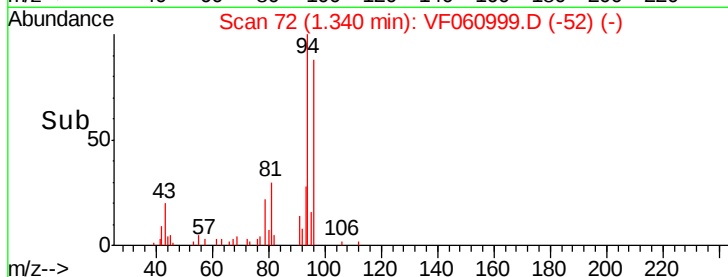
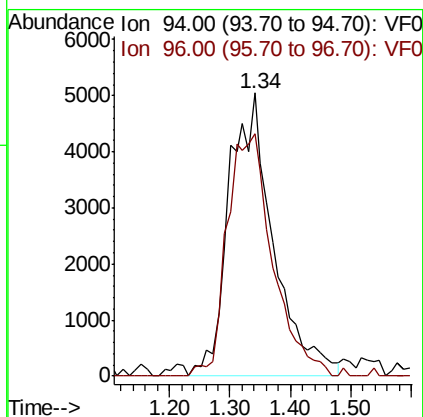
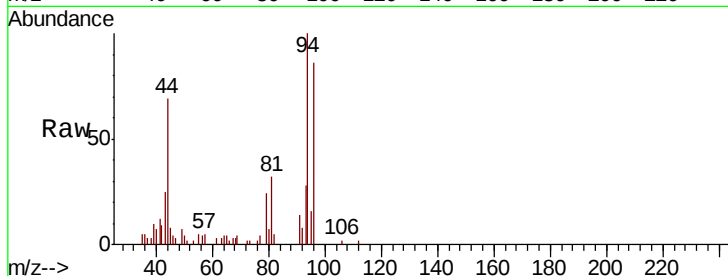
VF1212SBS02

Tot Ion: 94 Resp: 25776

Ion Ratio Lower Upper

94 100

96 85.6 75.9 113.9



#6

Chloroethane

Concen: 22.502 ug/l

RT: 1.38 min Scan# 76

Delta R.T. -0.01 min

Lab File: VF060999.D

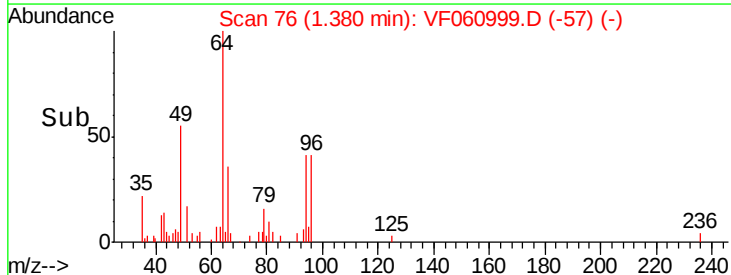
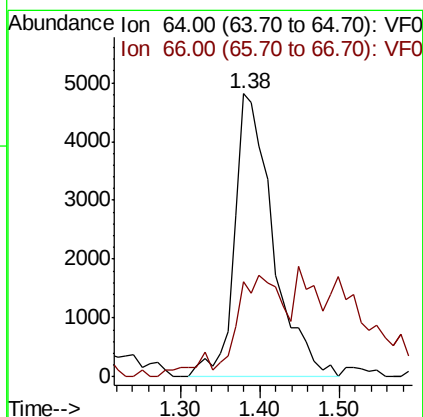
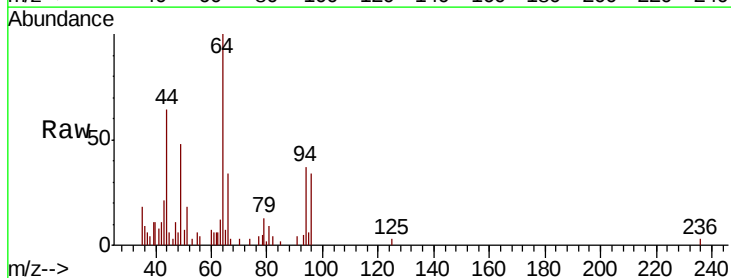
Acq: 12 Dec 2018 16:49

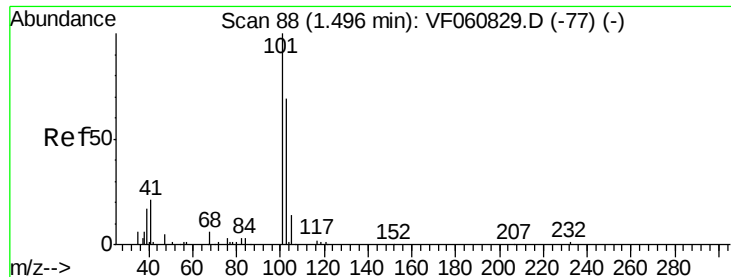
Tgt Ion: 64 Resp: 16115

Ion Ratio Lower Upper

64 100

66 33.6 28.1 42.1





#7

Trichlorofluoromethane

Concen: 2.530 ug/l

RT: 1.42 min Scan# 80

Delta R.T. -0.08 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

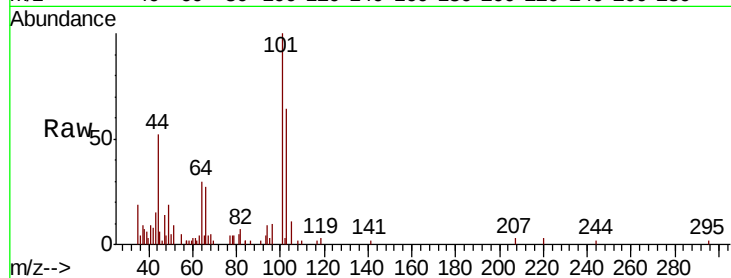
VF1212SBS02

Tot Ion:101 Resp: 8995

Ion Ratio Lower Upper

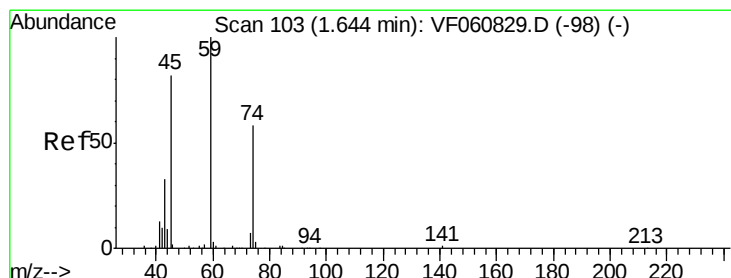
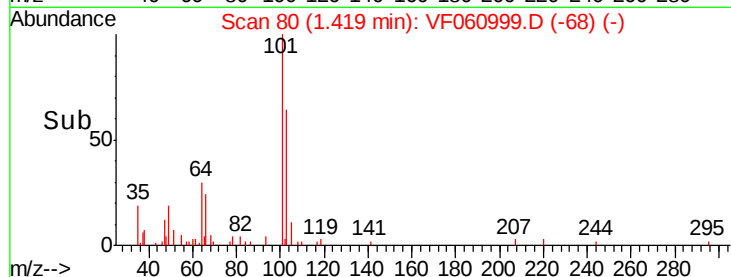
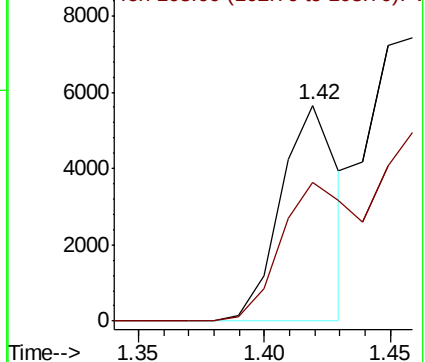
101 100

103 64.3 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: 20.321 ug/l

RT: 1.63 min Scan# 101

Delta R.T. -0.02 min

Lab File: VF060999.D

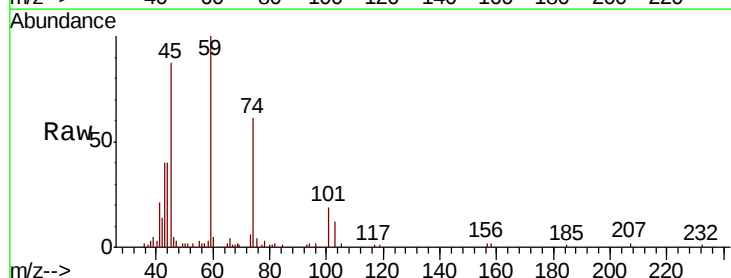
Acq: 12 Dec 2018 16:49

Tgt Ion: 74 Resp: 10387

Ion Ratio Lower Upper

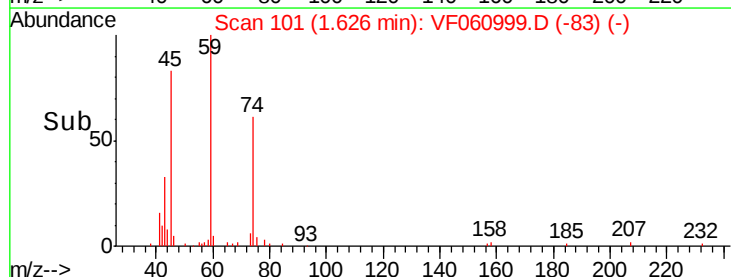
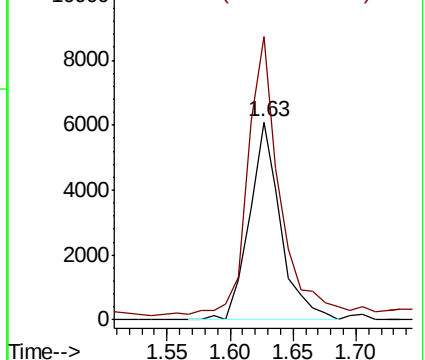
74 100

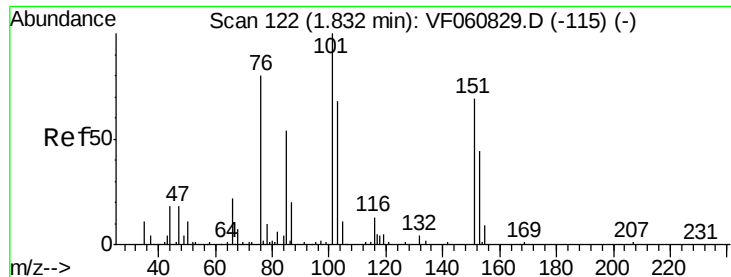
45 143.0 71.0 212.8



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: 21.821 ug/l

RT: 1.83 min Scan# 122

Delta R.T. 0.00 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS02

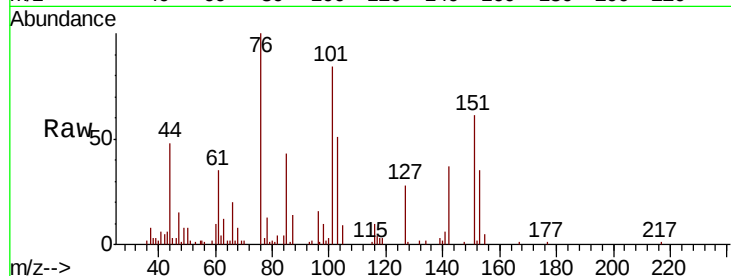
Tot Ion:101 Resp: 39213

Ion Ratio Lower Upper

101 100

85 51.7 42.8 64.2

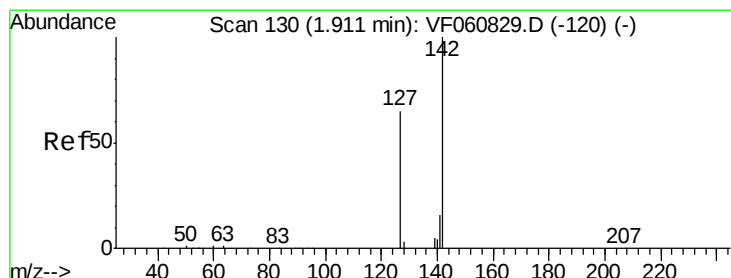
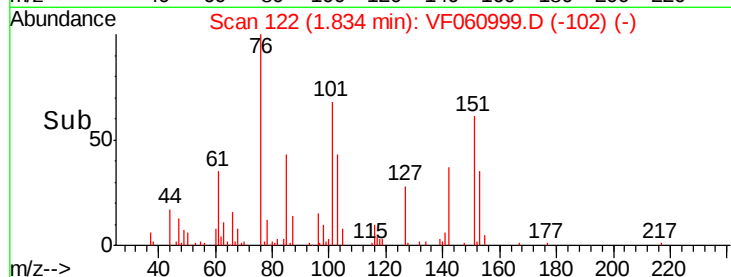
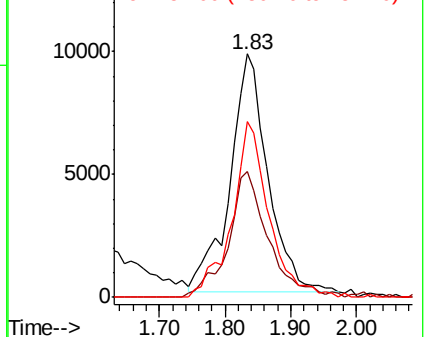
151 72.2 54.4 81.6



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: 19.269 ug/l

RT: 1.90 min Scan# 129

Delta R.T. -0.01 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

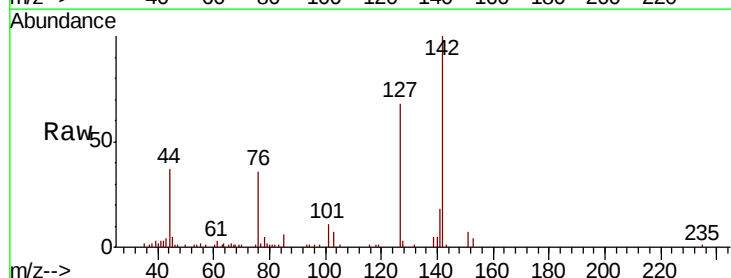
Tgt Ion:142 Resp: 52635

Ion Ratio Lower Upper

142 100

127 67.6 51.9 77.9

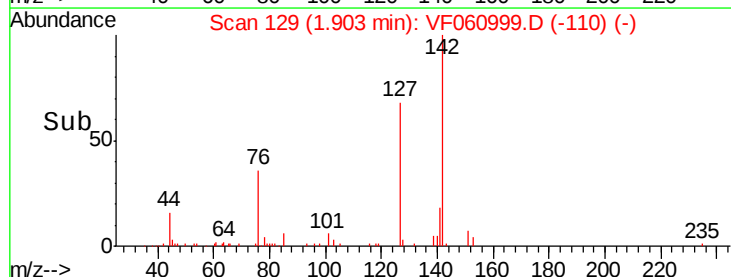
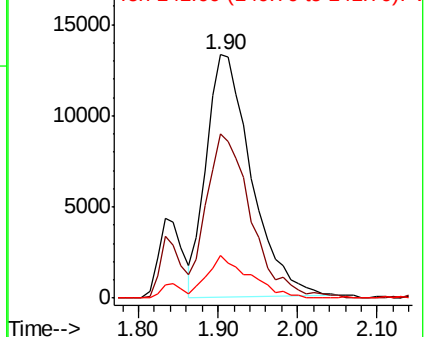
141 17.8 12.7 19.1

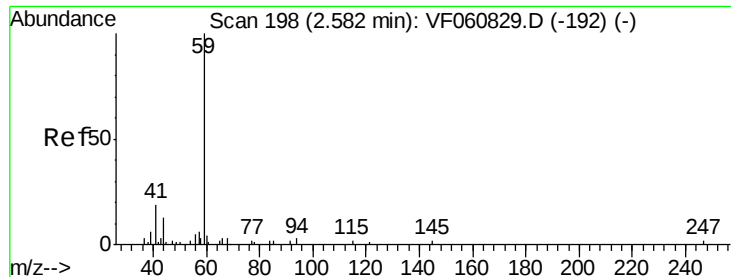


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

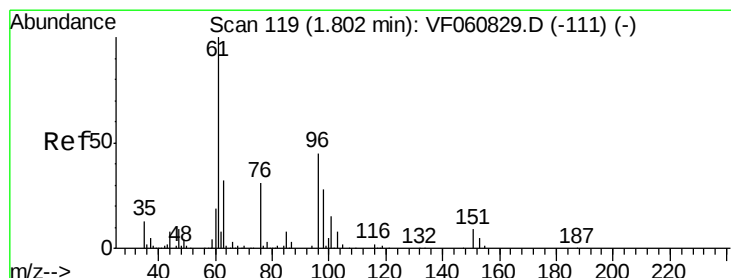
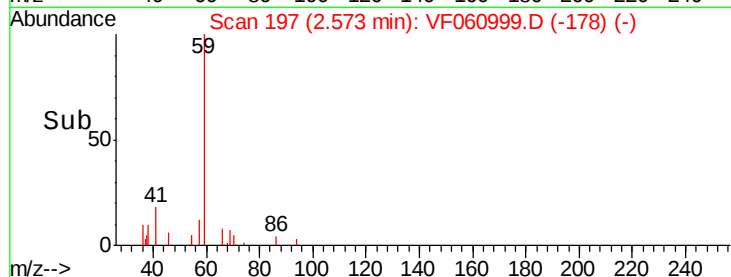
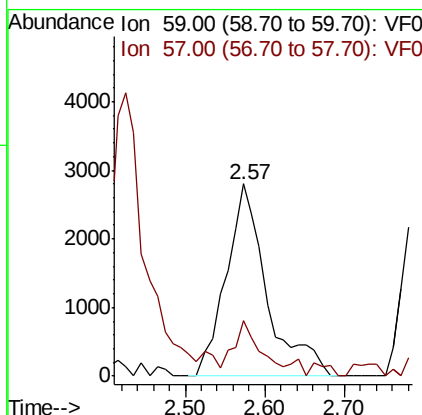
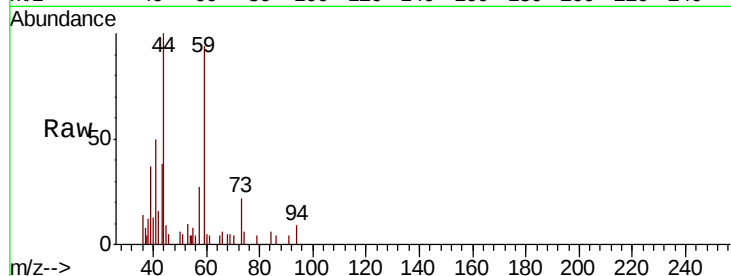




#11
Tert butyl alcohol
Concen: 113.064 ug/l
RT: 2.57 min Scan# 197
Delta R.T. -0.01 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

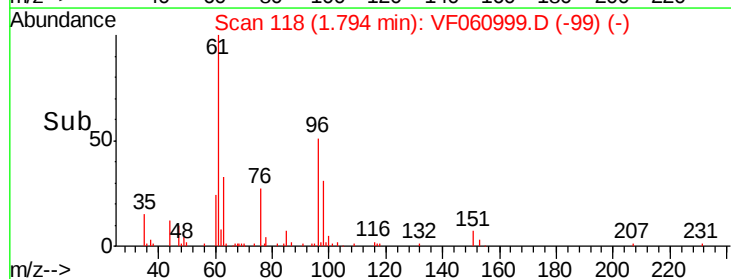
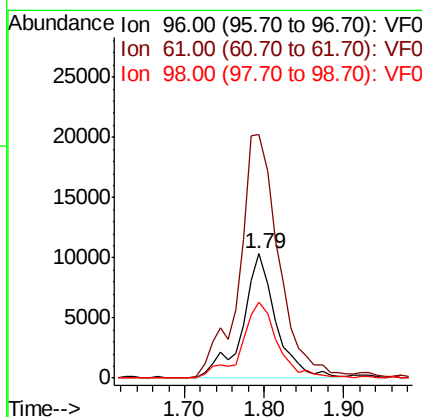
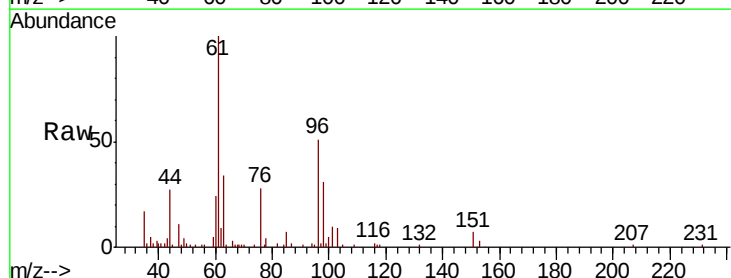
Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS02

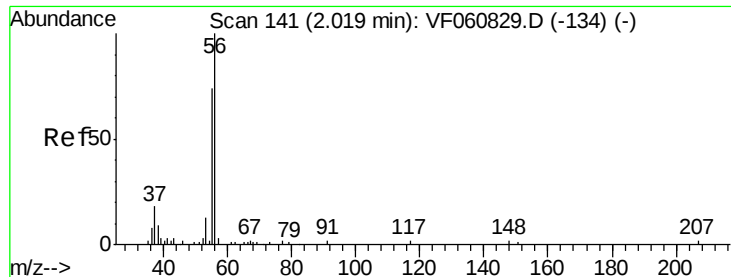
Tot Ion: 59 Resp: 9967
Ion Ratio Lower Upper
59 100
57 28.9 12.7 19.1#



#12
1,1-Dichloroethene
Concen: 20.662 ug/l
RT: 1.79 min Scan# 118
Delta R.T. -0.01 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Tgt Ion: 96 Resp: 29866
Ion Ratio Lower Upper
96 100
61 195.6 177.3 265.9
98 61.5 49.6 74.4





#13

Acrolein

Concen: 68.353 ug/l

RT: 2.00 min Scan# 139

Delta R.T. -0.02 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

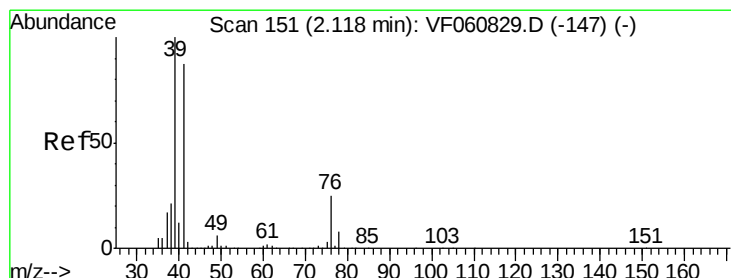
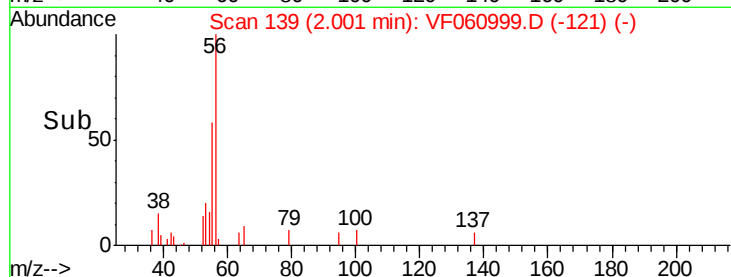
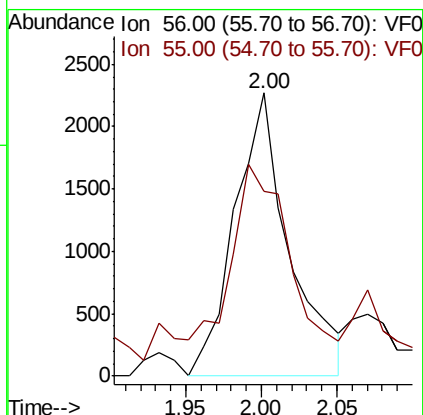
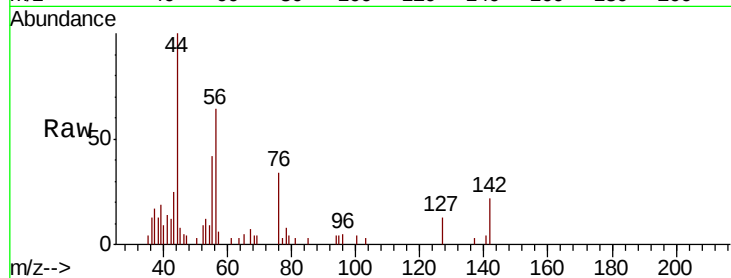
VF1212SBS02

Tot Ion: 56 Resp: 5709

Ion Ratio Lower Upper

56 100

55 65.1 61.2 91.8



#14

Allyl chloride

Concen: 18.356 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.03 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

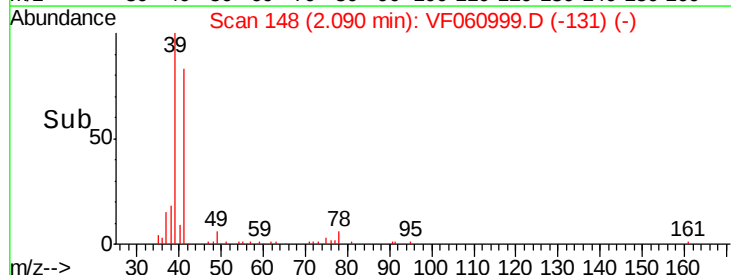
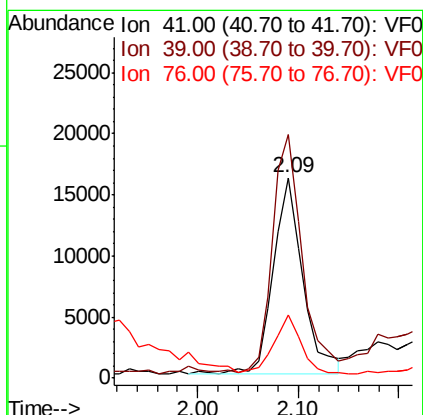
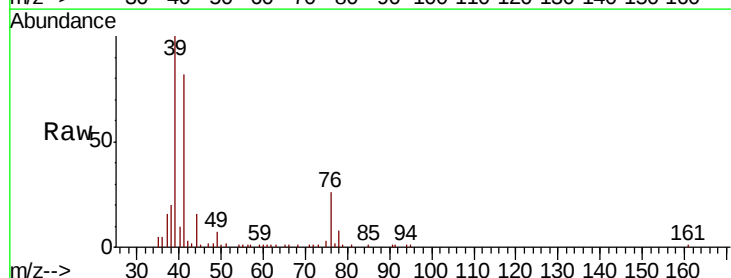
Tgt Ion: 41 Resp: 33071

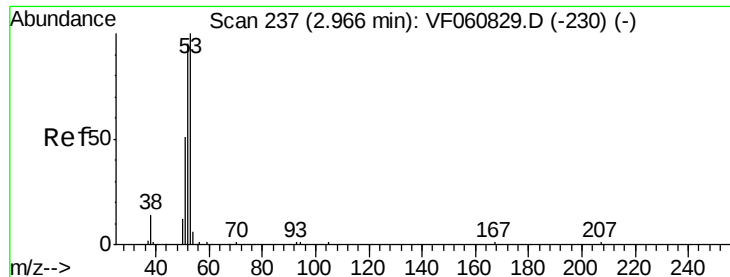
Ion Ratio Lower Upper

41 100

39 121.5 91.7 137.5

76 31.7 23.5 35.3





#15

Acrylonitrile

Concen: 107.952 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.03 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

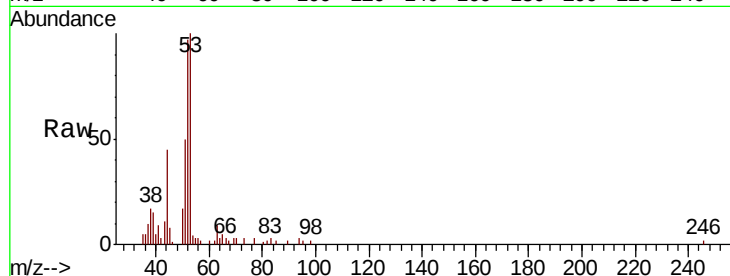
MSVOA_F

ClientSampleId :

VF1212SBS02

Tot Ion: 53 Resp: 21335

Ion	Ratio	Lower	Upper
53	100		
52	96.9	76.5	114.7
51	50.4	40.7	61.1

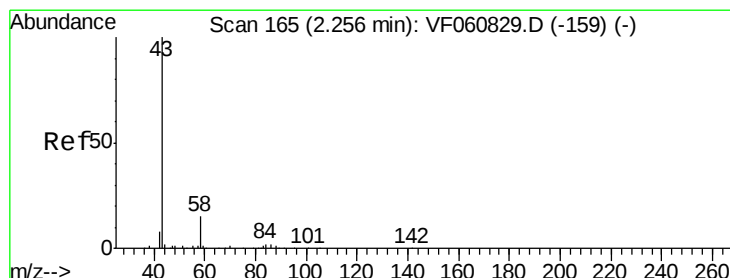
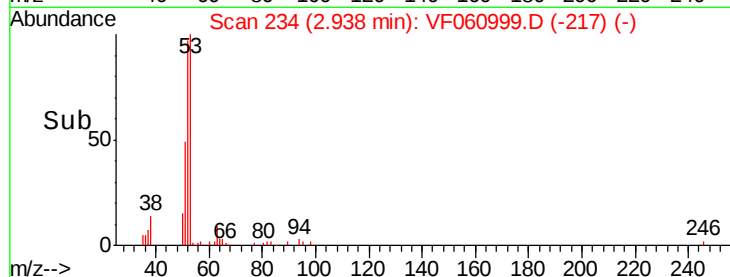
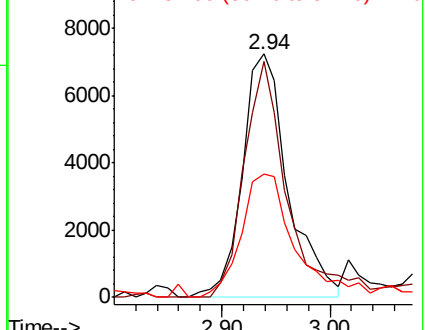


Abundance

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: 123.015 ug/l

RT: 2.24 min Scan# 163

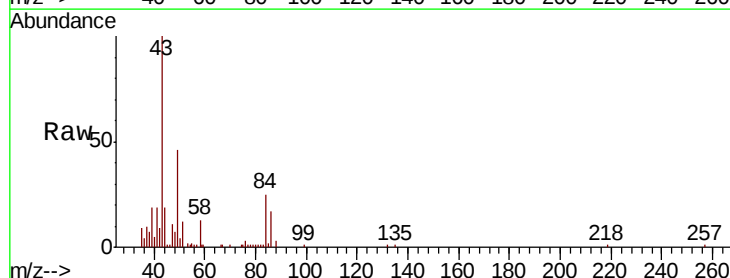
Delta R.T. -0.02 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Tgt Ion: 43 Resp: 48783

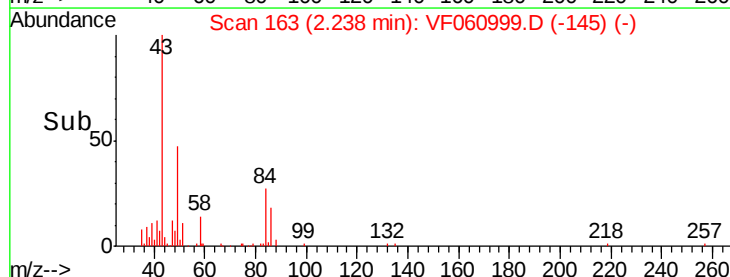
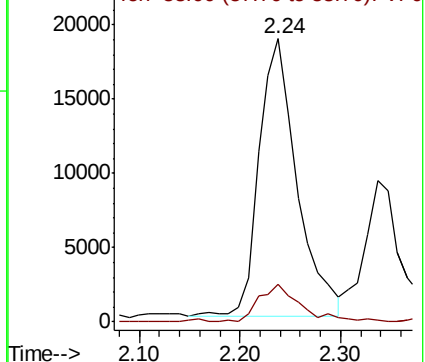
Ion	Ratio	Lower	Upper
43	100		
58	13.2	11.4	17.2

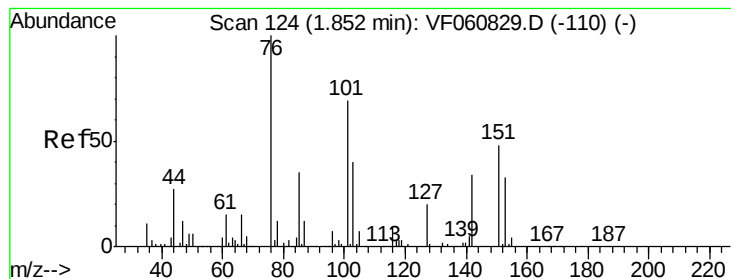


Abundance

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#17

Carbon Disulfide

Concen: 21.398 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.02 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

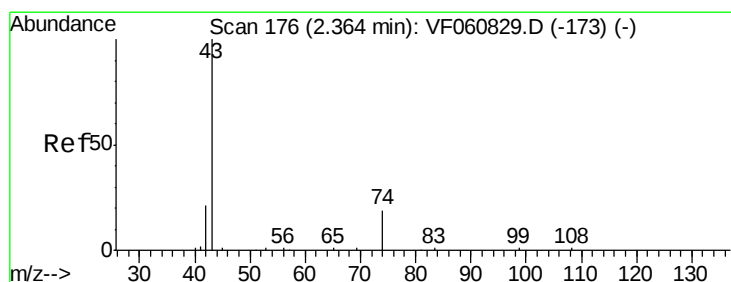
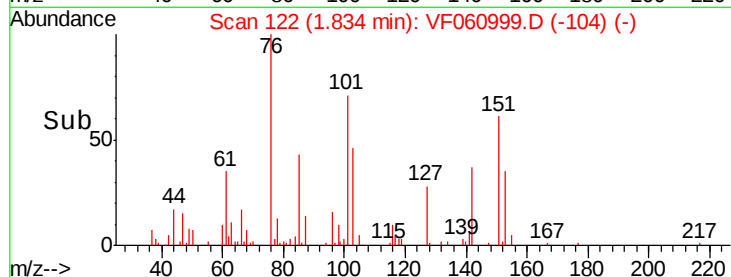
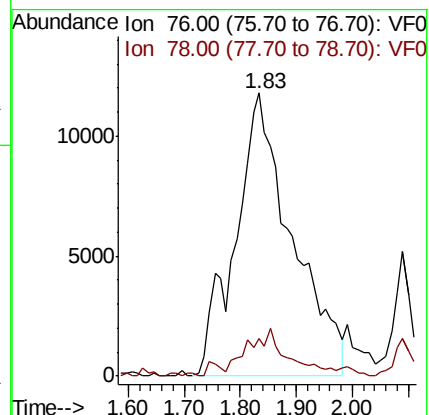
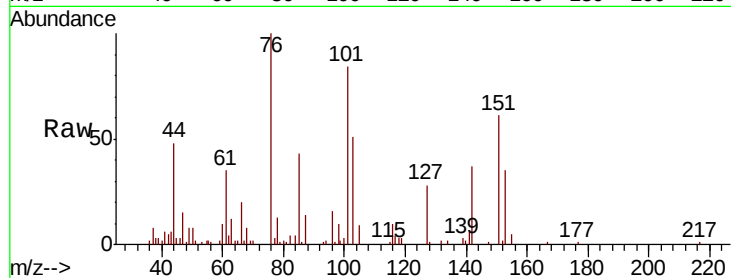
VF1212SBS02

Tot Ion: 76 Resp: 82931

Ion Ratio Lower Upper

76 100

78 13.5 10.2 15.2



#18

Methyl Acetate

Concen: 29.469 ug/l

RT: 2.34 min Scan# 173

Delta R.T. -0.03 min

Lab File: VF060999.D

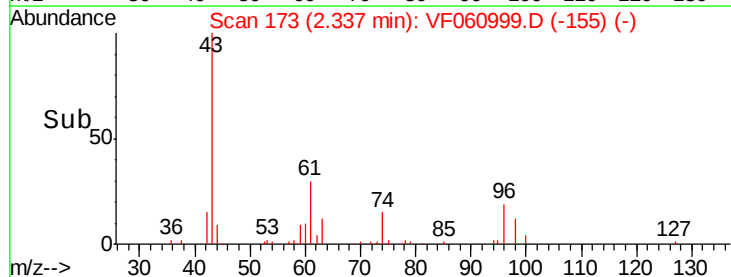
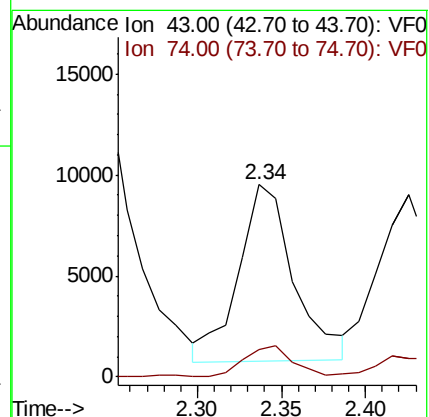
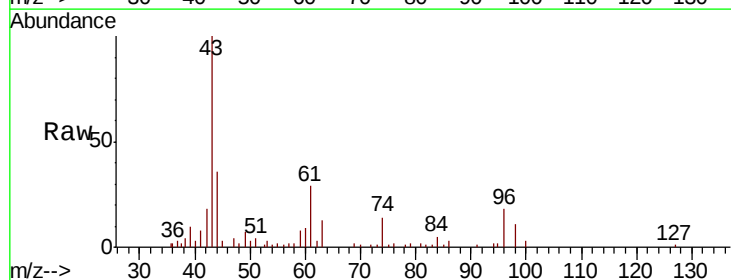
Acq: 12 Dec 2018 16:49

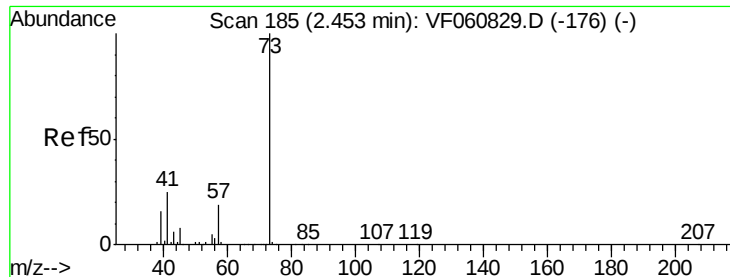
Tgt Ion: 43 Resp: 20057

Ion Ratio Lower Upper

43 100

74 14.1 13.3 19.9



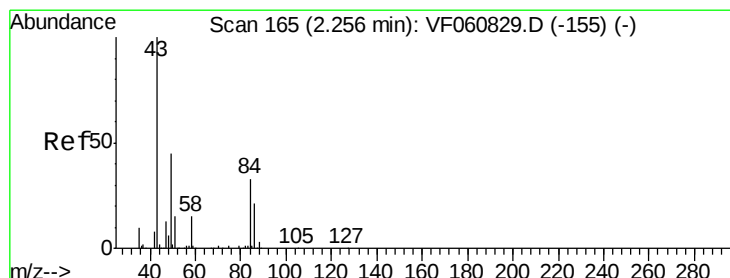
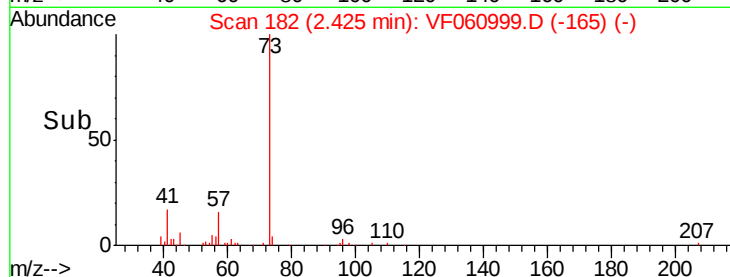
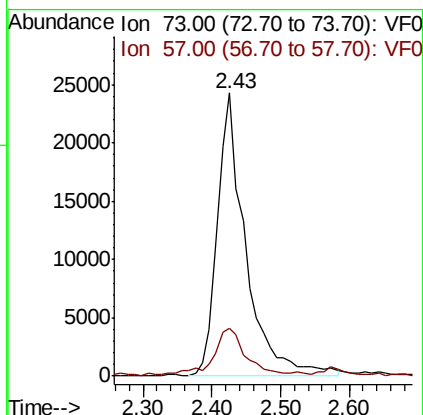
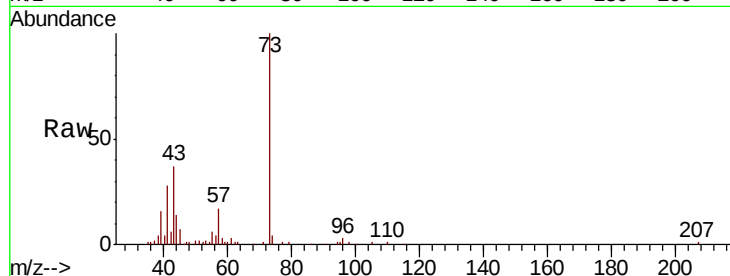


#19

Methyl tert-butyl Ether
 Concen: 21.357 ug/l
 RT: 2.43 min Scan# 182
 Delta R.T. -0.03 min
 Lab File: VF060999.D
 Acq: 12 Dec 2018 16:49

Instrument :
 MSVOA_F
 ClientSampleID :
 VF1212SBS02

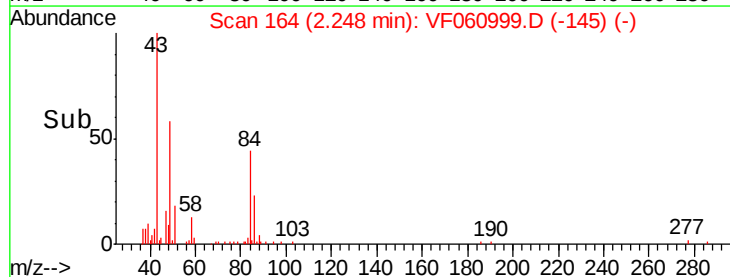
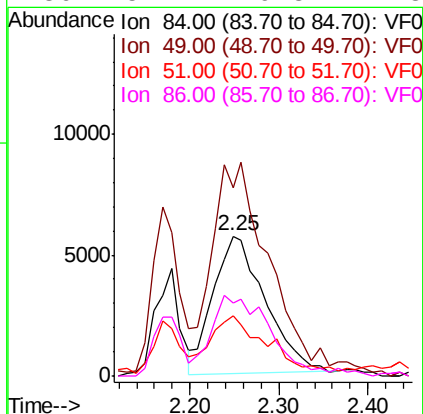
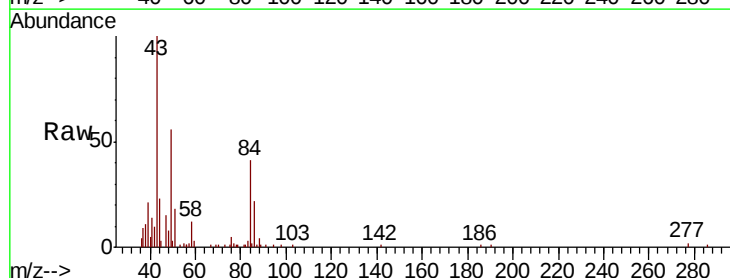
Tot Ion: 73 Resp: 69529
 Ion Ratio Lower Upper
 73 100
 57 17.0 15.3 22.9

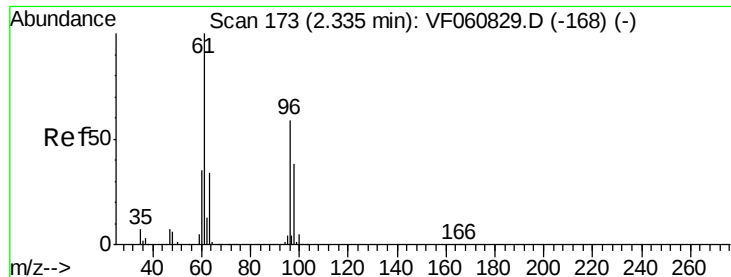


#20

Methylene Chloride
 Concen: 15.908 ug/l
 RT: 2.25 min Scan# 164
 Delta R.T. -0.01 min
 Lab File: VF060999.D
 Acq: 12 Dec 2018 16:49

Tgt Ion: 84 Resp: 23143
 Ion Ratio Lower Upper
 84 100
 49 134.4 111.3 166.9
 51 43.1 38.0 57.0
 86 52.2 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 16.343 ug/l

RT: 2.30 min Scan# 169

Delta R.T. -0.04 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS02

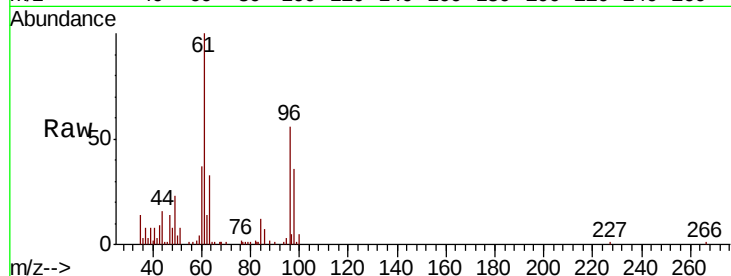
Tot Ion: 96 Resp: 22774

Ion Ratio Lower Upper

96 100

61 179.2 134.5 201.7

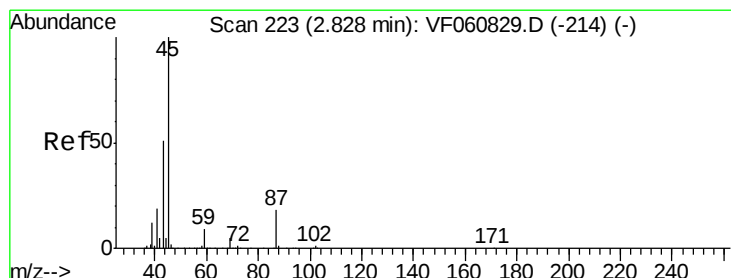
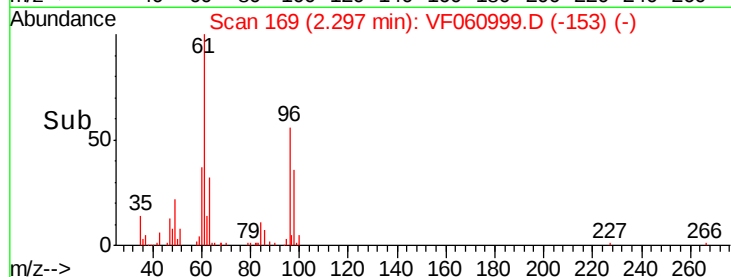
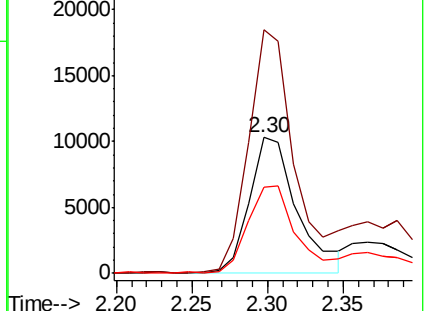
98 63.8 51.6 77.4



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#22

Diisopropyl ether

Concen: 22.709 ug/l

RT: 2.79 min Scan# 219

Delta R.T. -0.04 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Tgt Ion: 45 Resp: 111363

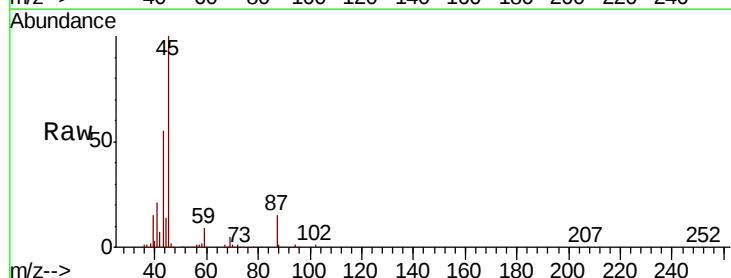
Ion Ratio Lower Upper

45 100

43 55.0 41.0 61.6

87 15.5 14.6 22.0

59 8.7 7.5 11.3

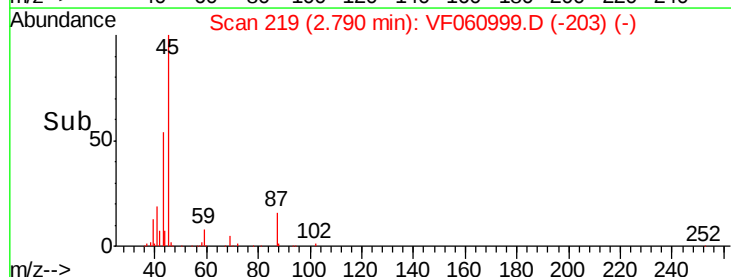
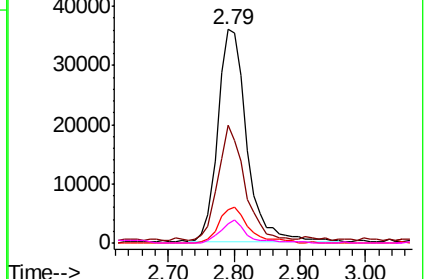


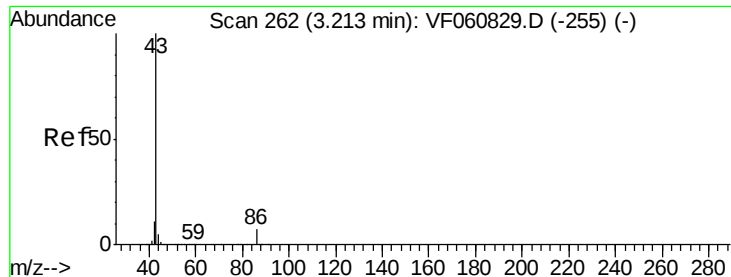
Abundance Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 117.031 ug/l

RT: 3.19 min Scan# 259

Delta R.T. -0.03 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

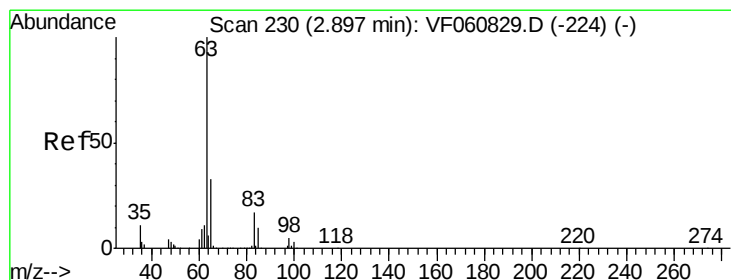
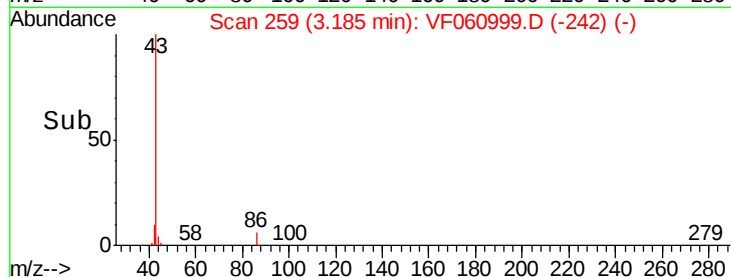
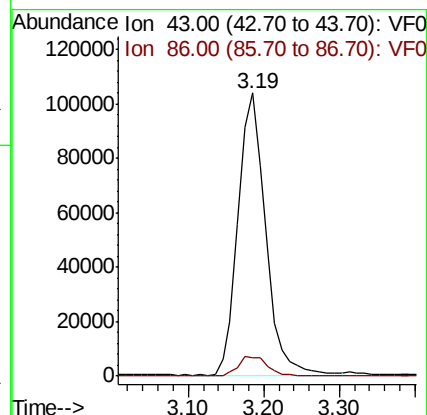
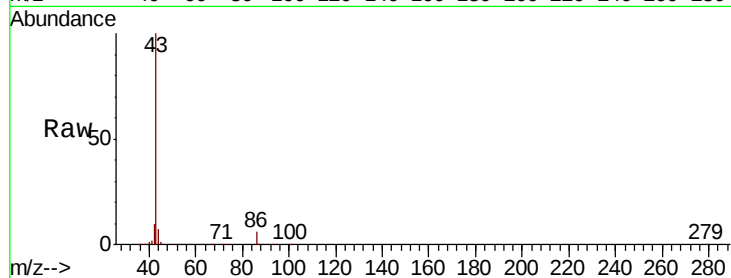
VF1212SBS02

Tot Ion: 43 Resp: 262343

Ion Ratio Lower Upper

43 100

86 6.4 5.4 8.0



#24

1,1-Dichloroethane

Concen: 21.757 ug/l

RT: 2.87 min Scan# 227

Delta R.T. -0.03 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

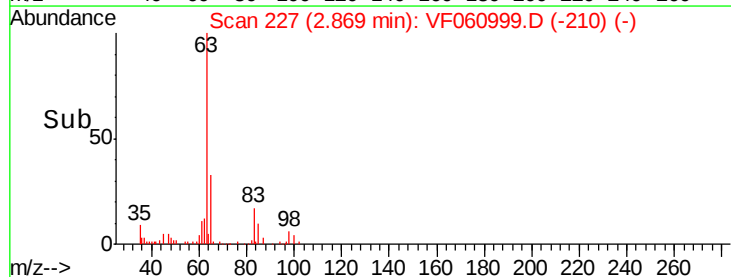
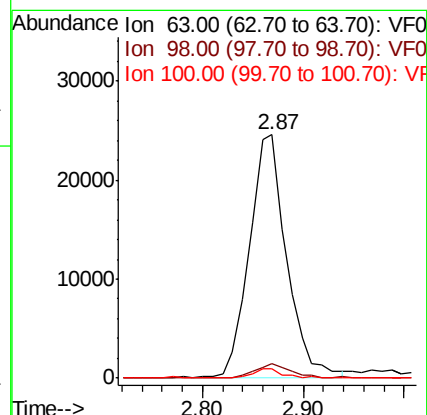
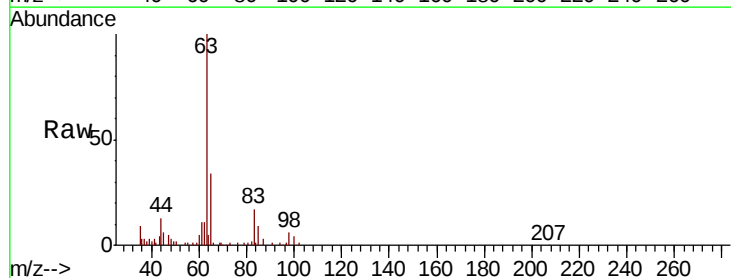
Tgt Ion: 63 Resp: 63481

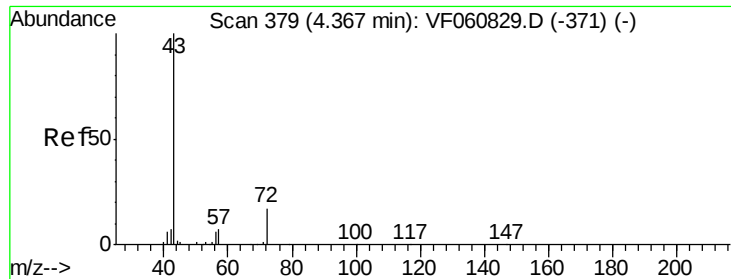
Ion Ratio Lower Upper

63 100

98 6.1 2.7 8.1

100 3.8 1.5 4.5

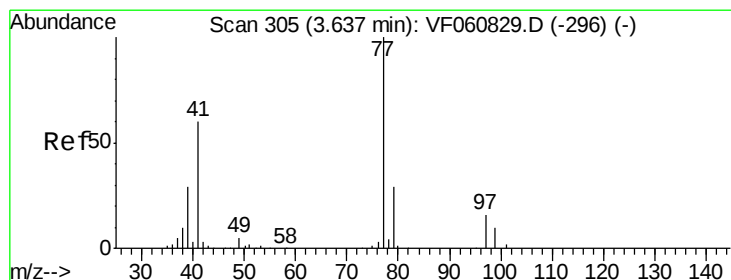
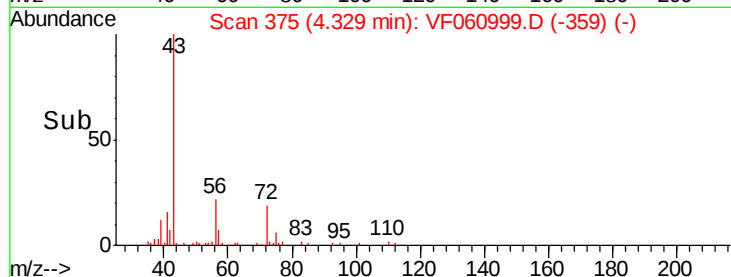
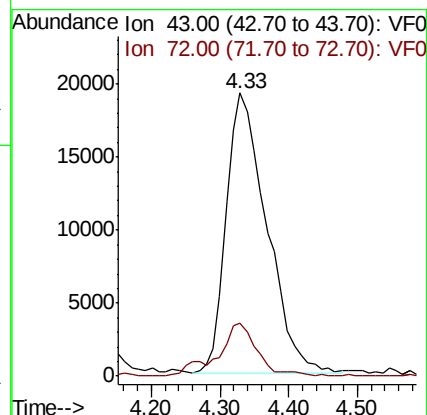
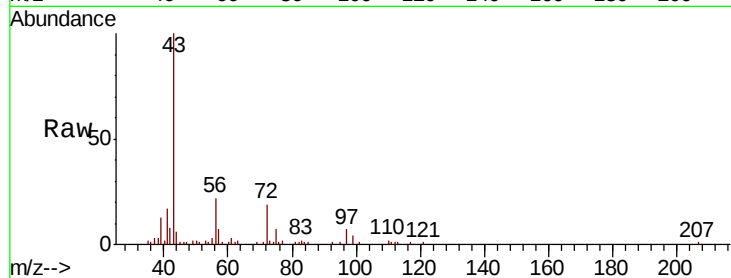




#25
2-Butanone
Concen: 113.797 ug/l
RT: 4.33 min Scan# 375
Delta R.T. -0.04 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

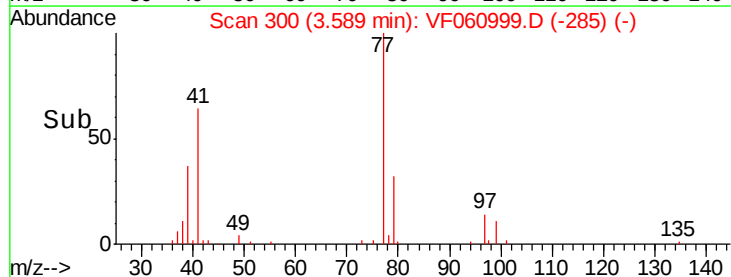
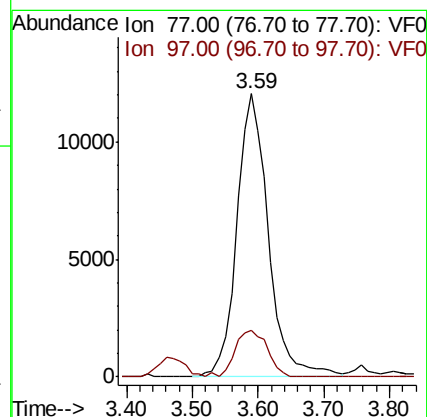
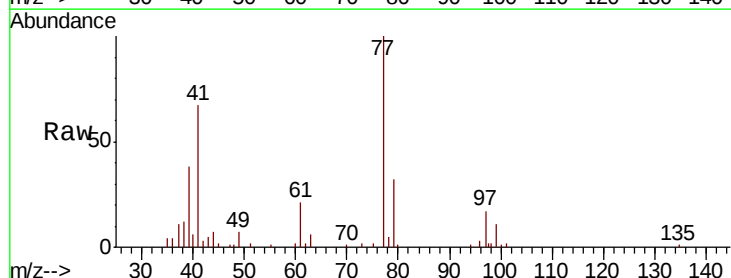
Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS02

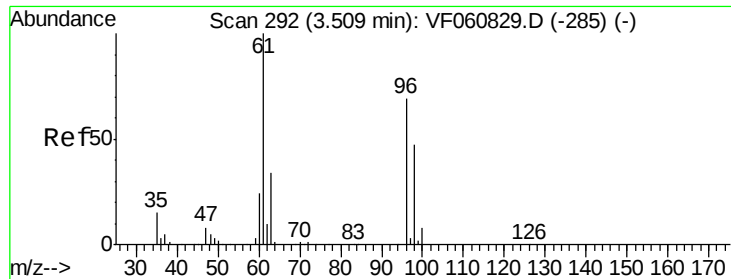
Tot Ion: 43 Resp: 78055
Ion Ratio Lower Upper
43 100
72 18.8 15.4 23.2



#26
2,2-Dichloropropane
Concen: 21.381 ug/l
RT: 3.59 min Scan# 300
Delta R.T. -0.05 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Tgt Ion: 77 Resp: 40444
Ion Ratio Lower Upper
77 100
97 18.8 8.6 25.8



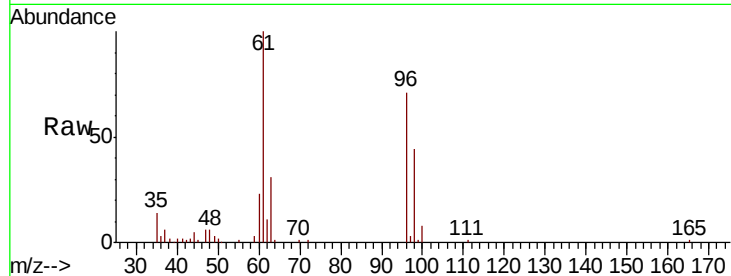


#27

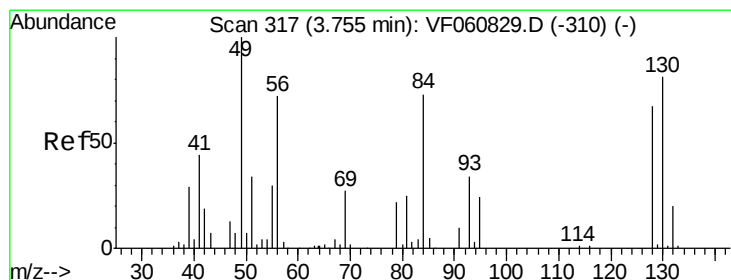
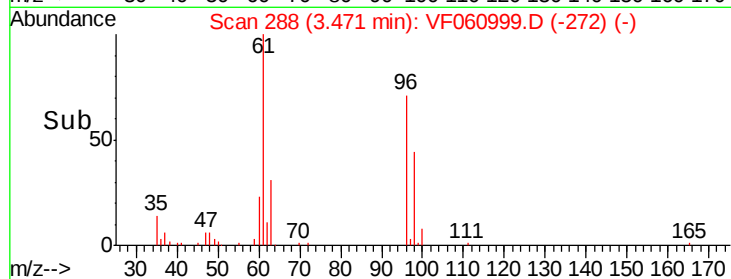
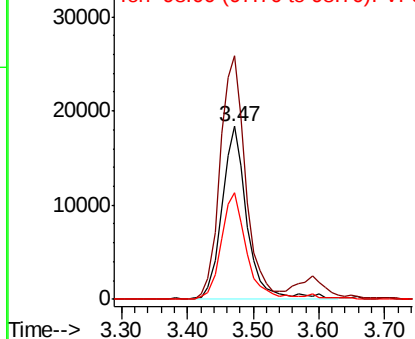
cis-1,2-Dichloroethene
Concen: 21.562 ug/l
RT: 3.47 min Scan# 288
Delta R.T. -0.04 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS02

Tot Ion	Ratio	Lower	Upper
96	100		
61	141.0	0.0	290.6
98	62.0	0.0	137.8



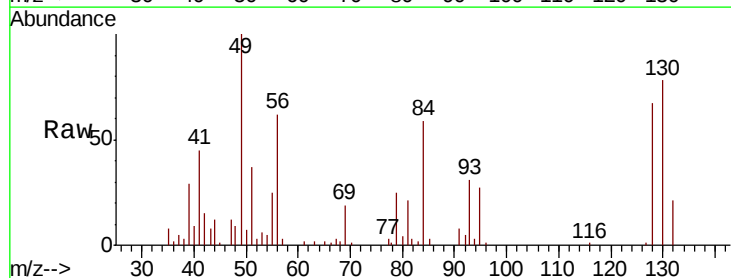
Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



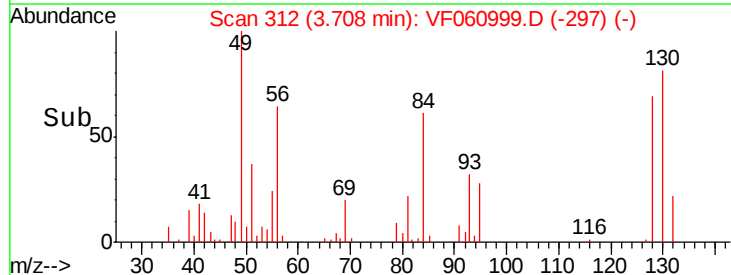
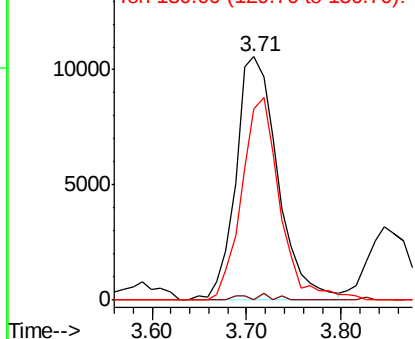
#28

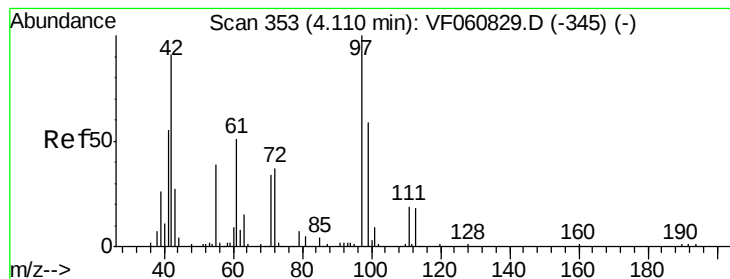
Bromochloromethane
Concen: 23.284 ug/l
RT: 3.71 min Scan# 312
Delta R.T. -0.05 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.4
130	78.4	64.2	96.4



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





#29

Tetrahydrofuran

Concen: 113.583 ug/l

RT: 4.07 min Scan# 349

Delta R.T. -0.04 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS02

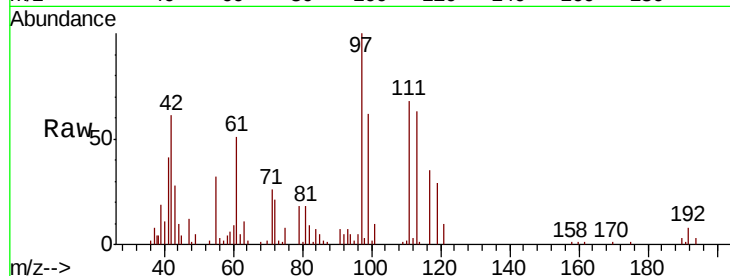
Tot Ion: 42 Resp: 33024

Ion Ratio Lower Upper

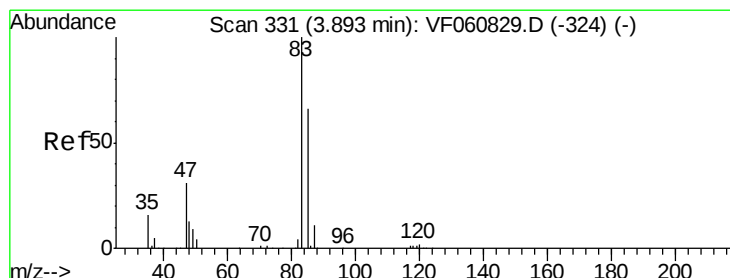
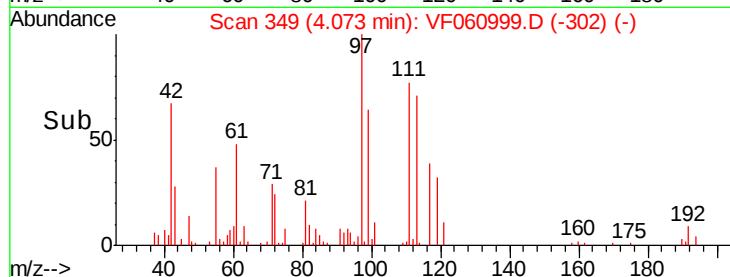
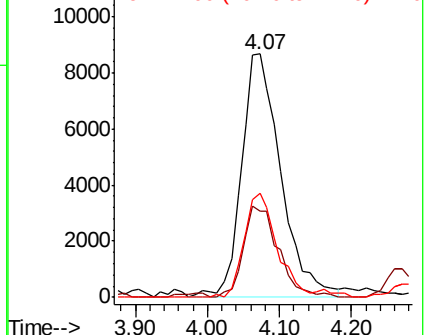
42 100

72 33.4 31.9 47.9

71 35.4 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: 21.556 ug/l

RT: 3.86 min Scan# 327

Delta R.T. -0.04 min

Lab File: VF060999.D

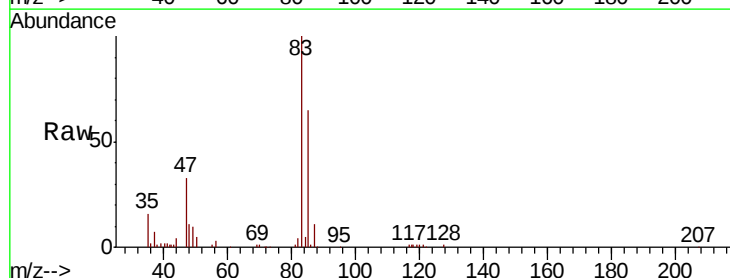
Acq: 12 Dec 2018 16:49

Tgt Ion: 83 Resp: 96797

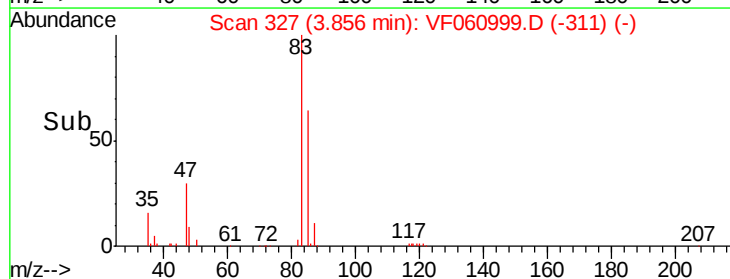
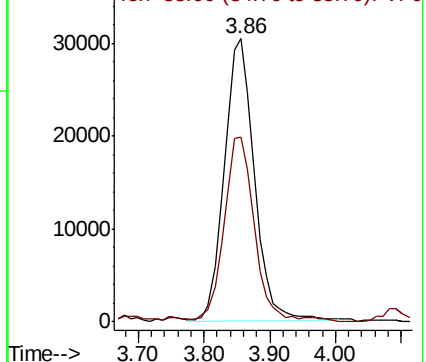
Ion Ratio Lower Upper

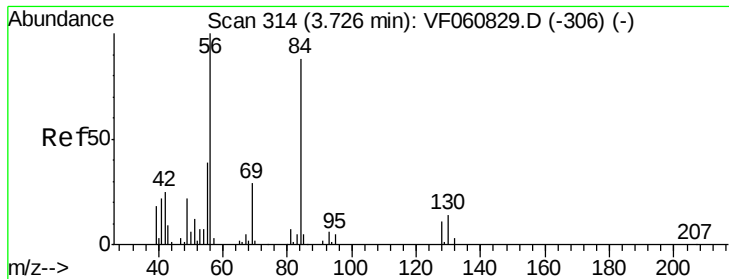
83 100

85 65.3 53.4 80.2



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





#31

Cvclohexane

Concen: 12.525 ug/l

RT: 3.68 min Scan# 309

Delta R.T. -0.05 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS02

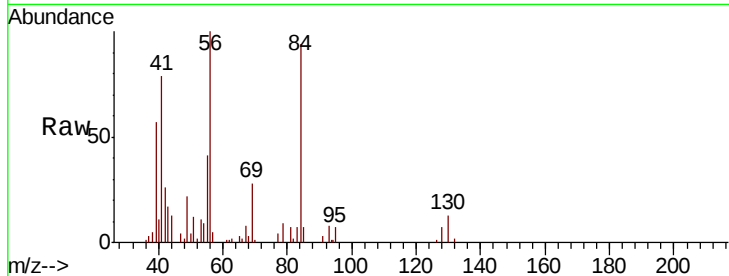
Tot Ion: 56 Resp: 37927

Ion Ratio Lower Upper

56 100

69 28.3 23.0 34.4

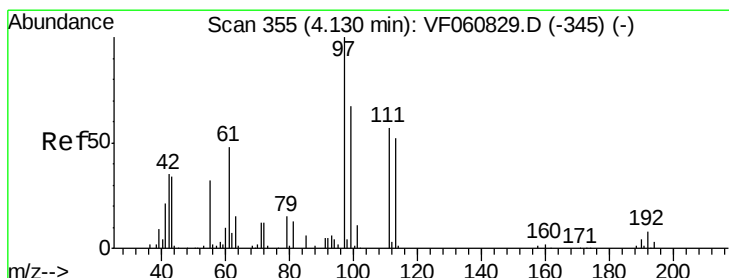
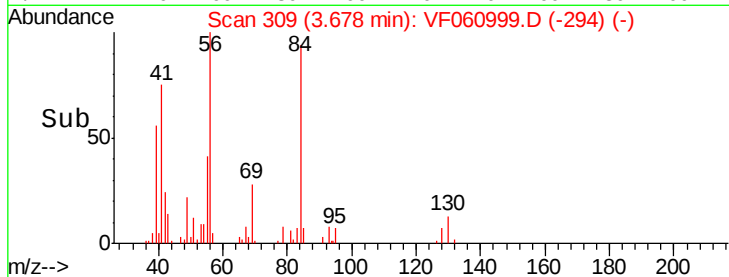
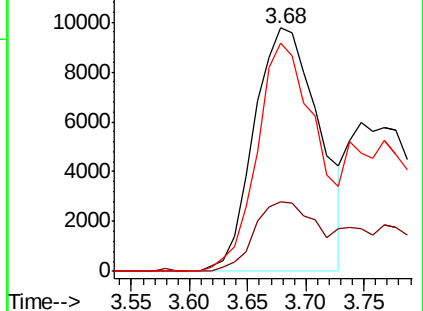
84 93.7 70.4 105.6



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: 19.395 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.04 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

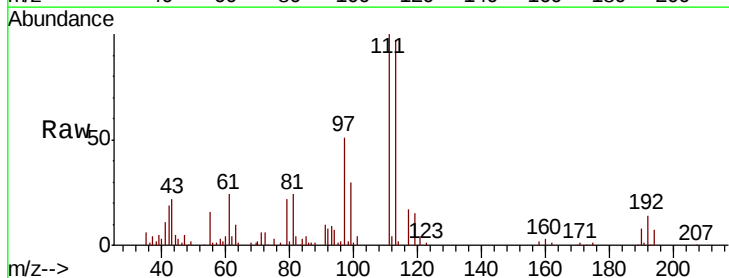
Tgt Ion: 97 Resp: 60399

Ion Ratio Lower Upper

97 100

99 59.2 53.5 80.3

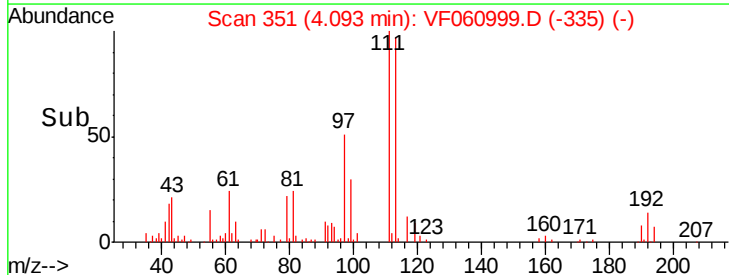
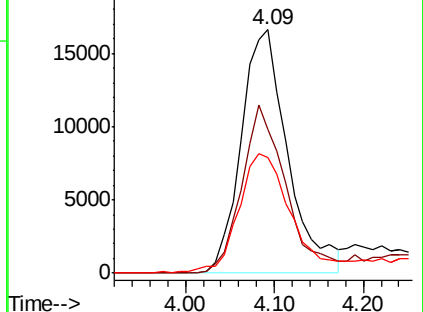
61 47.5 38.6 58.0

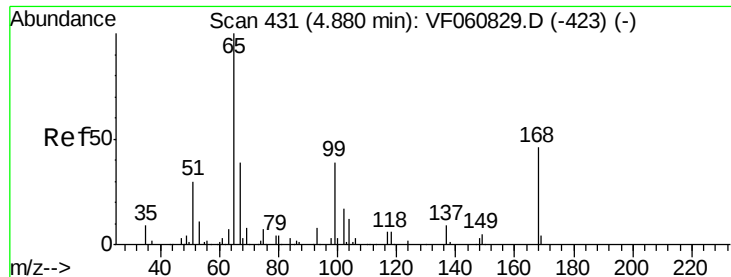


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

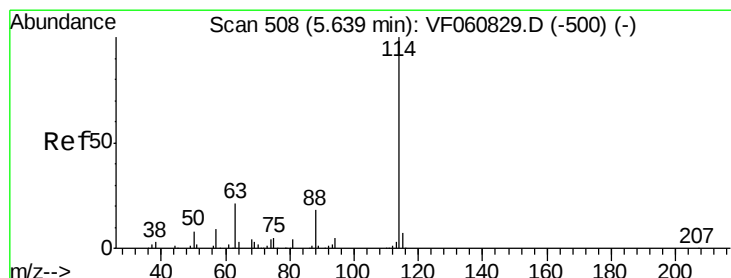
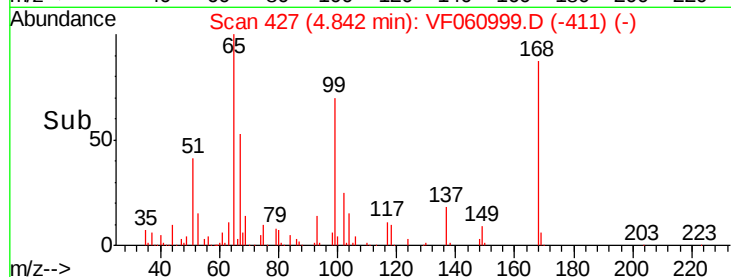
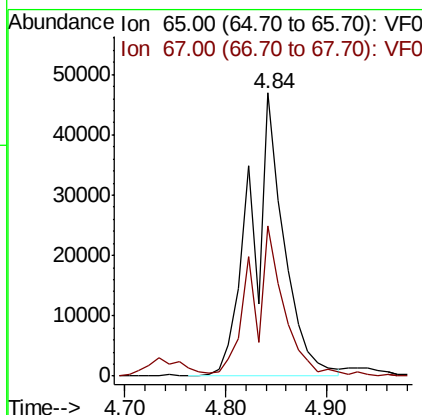
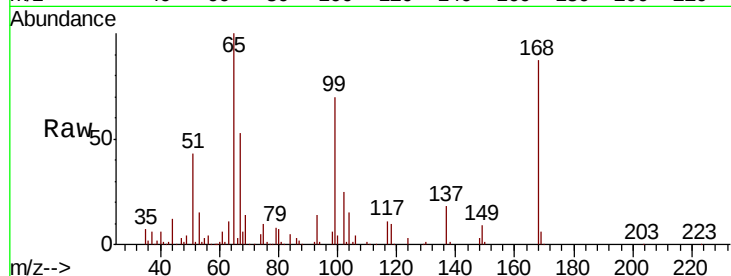




#33
 1,2-Dichloroethane-d4
 Concen: 48.856 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. -0.04 min
 Lab File: VF060999.D
 Acq: 12 Dec 2018 16:49

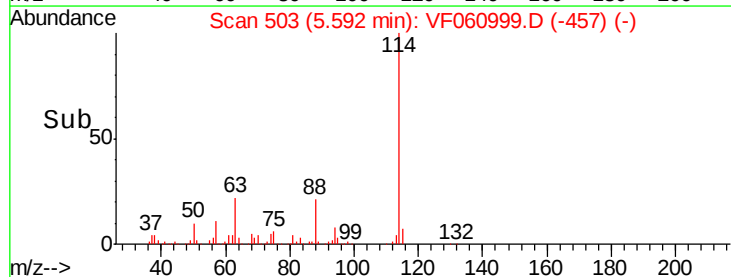
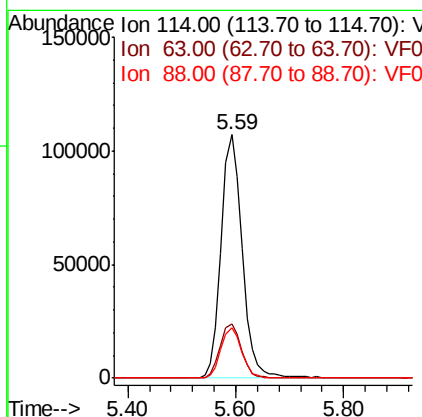
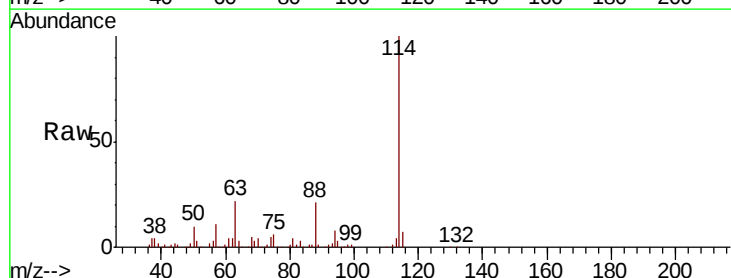
Instrument :
 MSVOA_F
 ClientSampleId :
 VF1212SBS02

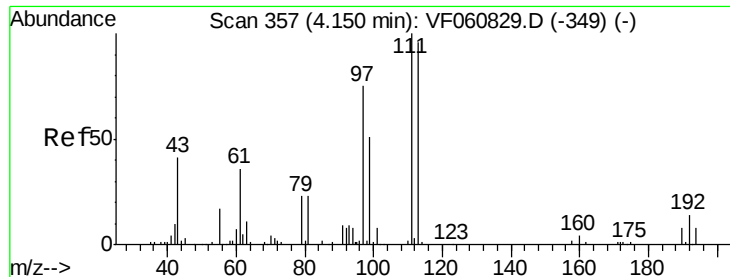
Tot Ion: 65 Resp: 105064
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 96.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.59 min Scan# 503
 Delta R.T. -0.05 min
 Lab File: VF060999.D
 Acq: 12 Dec 2018 16:49

Tgt Ion: 114 Resp: 290861
 Ion Ratio Lower Upper
 114 100
 63 22.1 0.0 41.6
 88 20.5 0.0 36.6

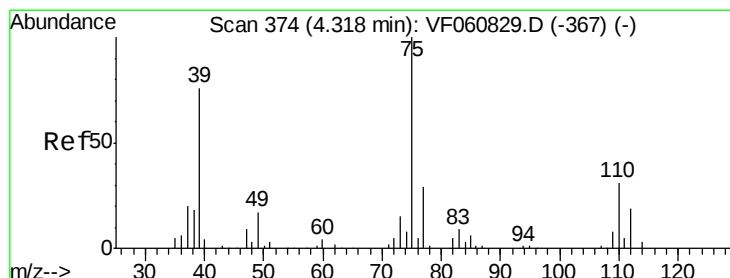
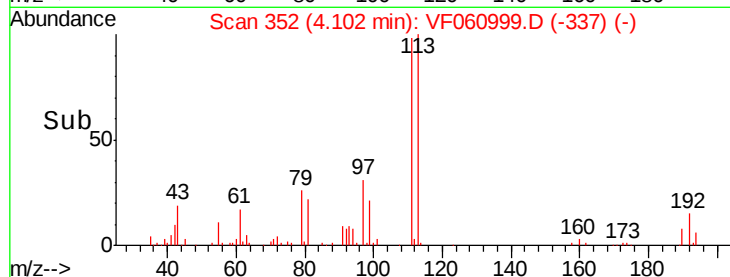
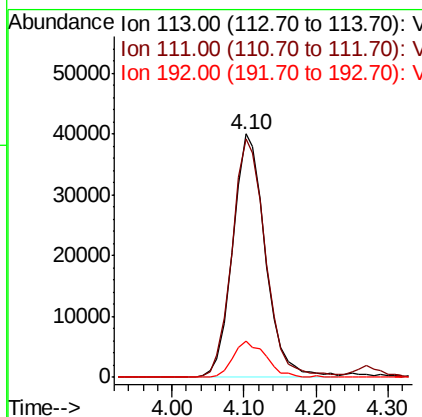
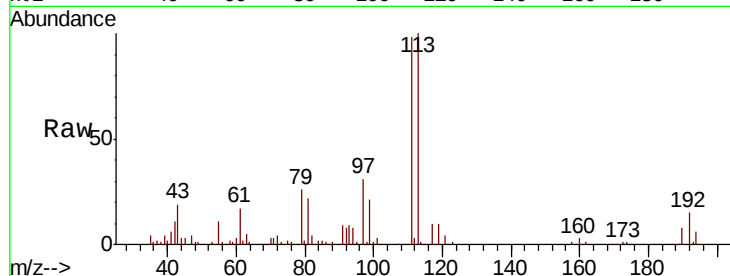




#35
 Dibromofluoromethane
 Concen: 54.864 ug/l
 RT: 4.10 min Scan# 352
 Delta R.T. -0.05 min
 Lab File: VF060999.D
 Acq: 12 Dec 2018 16:49

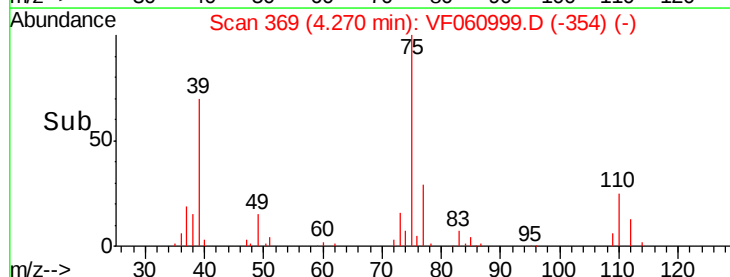
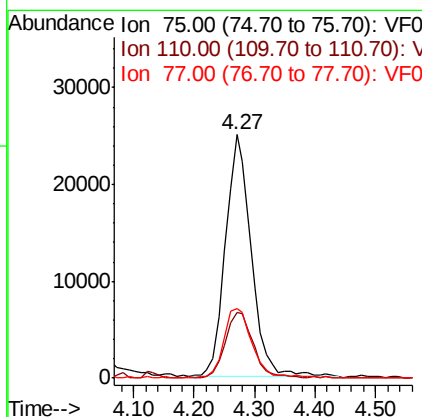
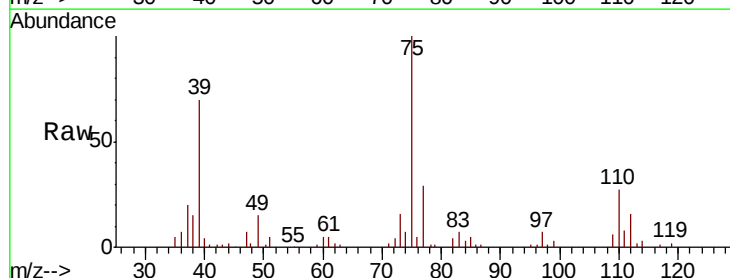
Instrument :
 MSVOA_F
 ClientSampleId :
 VF1212SBS02

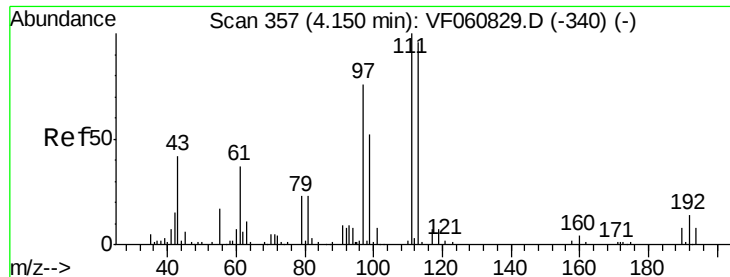
Tot Ion	Ratio	Lower	Upper
113	100		
111	98.2	83.0	124.6
192	15.1	12.3	18.5



#36
 1,1-Dichloropropene
 Concen: 23.091 ug/l
 RT: 4.27 min Scan# 369
 Delta R.T. -0.05 min
 Lab File: VF060999.D
 Acq: 12 Dec 2018 16:49

Tgt Ion	Ratio	Lower	Upper
75	100		
110	27.0	15.6	46.8
77	28.7	23.4	35.0

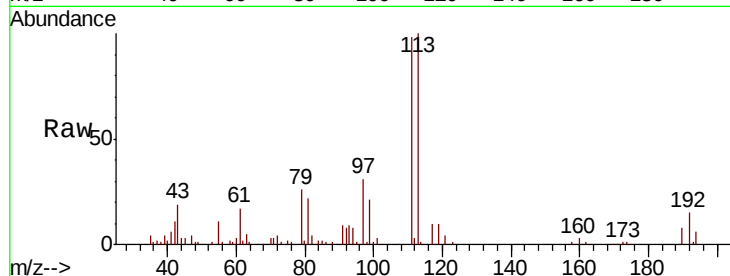




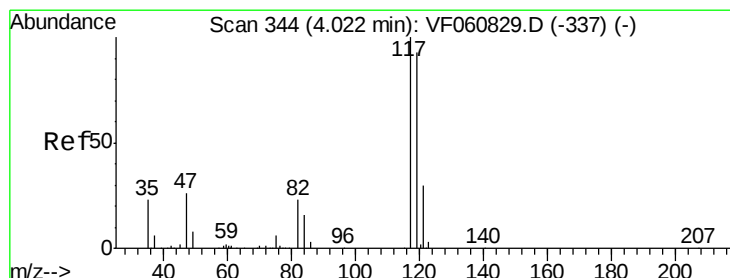
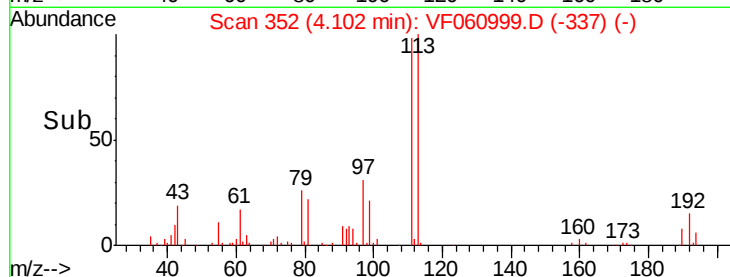
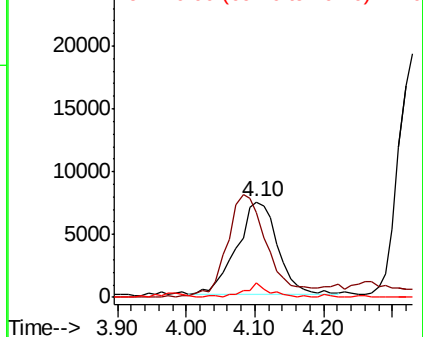
#37
Ethyl Acetate
Concen: 23.420 ug/l
RT: 4.10 min Scan# 352
Delta R.T. -0.05 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS02

Tot Ion: 43 Resp: 30704
Ion Ratio Lower Upper
43 100
61 89.3 68.6 103.0
70 14.7 9.0 13.4#

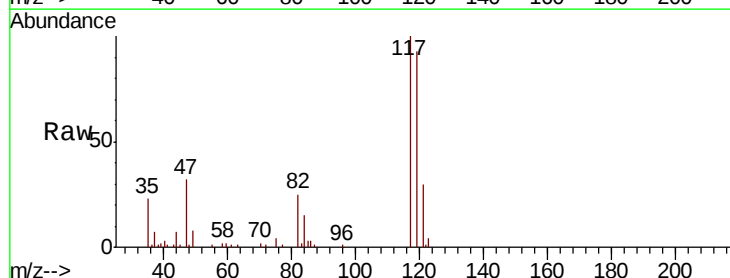


Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 70.00 (69.70 to 70.70): VF0

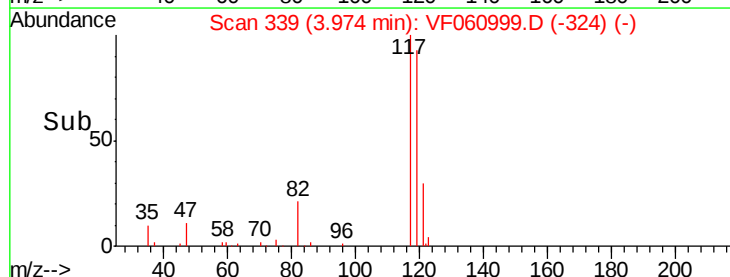
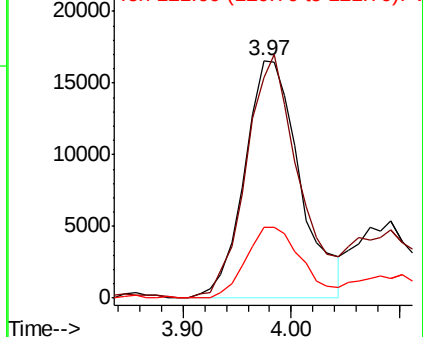


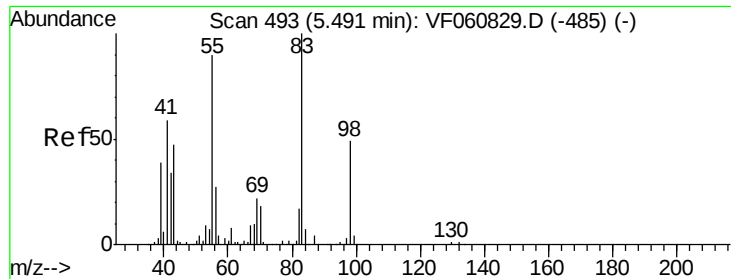
#38
Carbon Tetrachloride
Concen: 20.828 ug/l
RT: 3.97 min Scan# 339
Delta R.T. -0.05 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Tgt Ion: 117 Resp: 59348
Ion Ratio Lower Upper
117 100
119 93.0 74.4 111.6
121 30.0 23.5 35.3



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

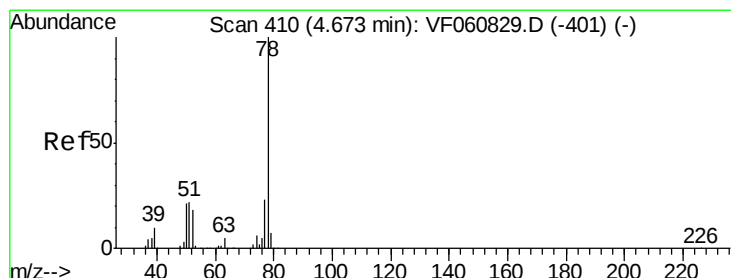
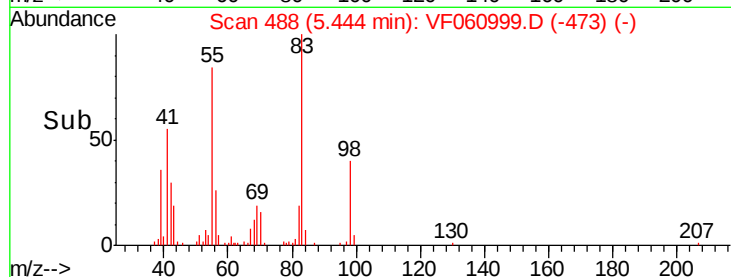
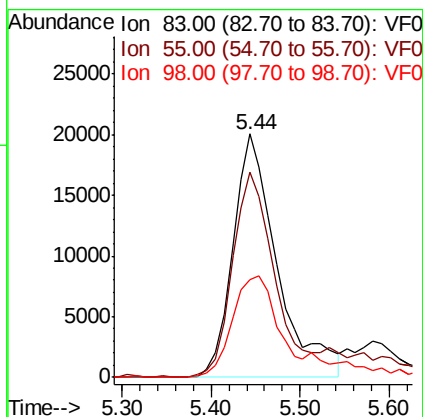
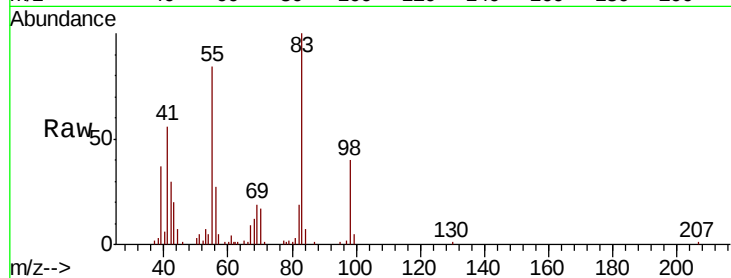




#39
Methvlcvclohexane
Concen: 20.509 ug/l
RT: 5.44 min Scan# 488
Delta R.T. -0.05 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

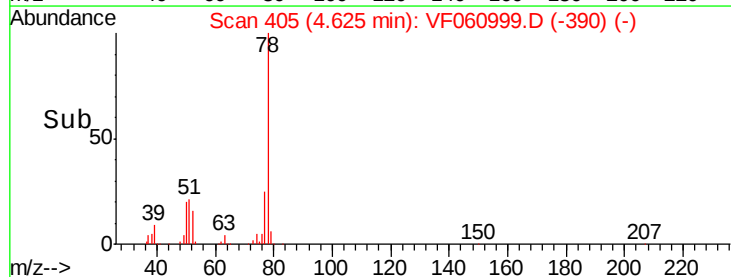
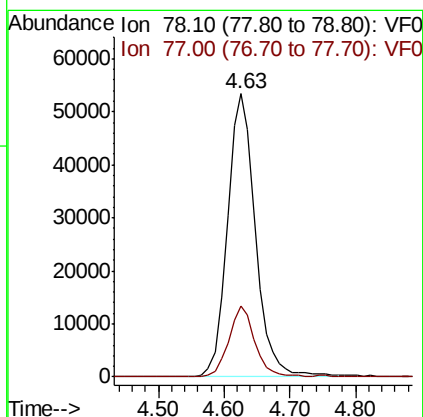
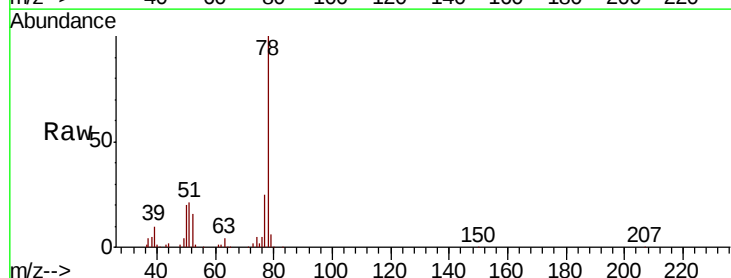
Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS02

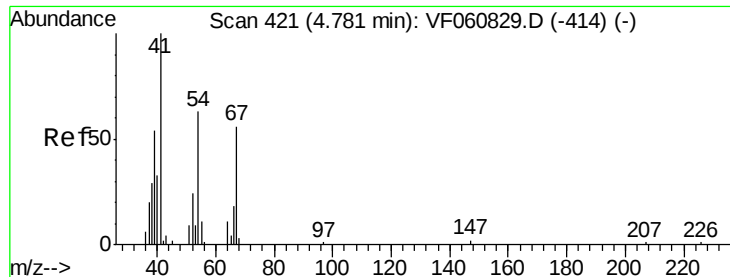
Tot Ion: 83 Resp: 69340
Ion Ratio Lower Upper
83 100
55 84.4 72.1 108.1
98 40.3 39.1 58.7



#40
Benzene
Concen: 22.342 ug/l
RT: 4.63 min Scan# 405
Delta R.T. -0.05 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Tgt Ion: 78 Resp: 159232
Ion Ratio Lower Upper
78 100
77 25.0 18.7 28.1

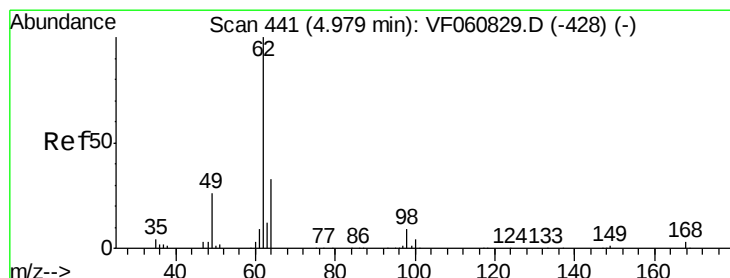
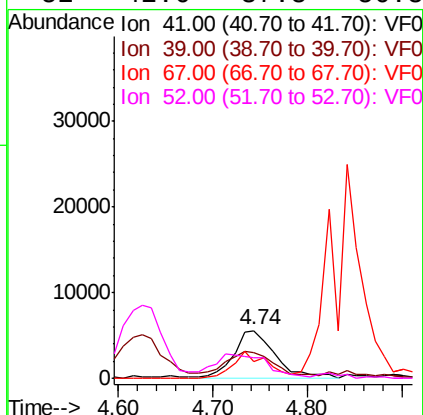
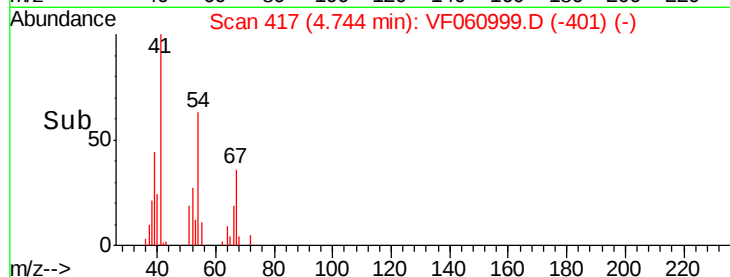
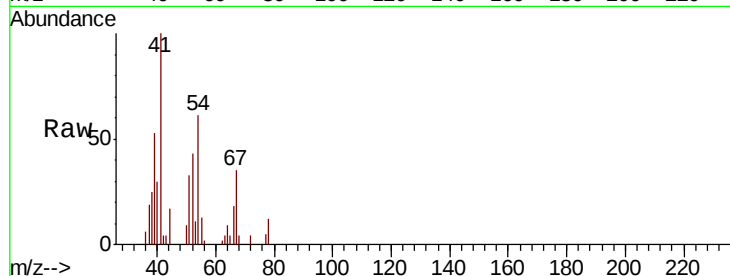




#41
Methacrylonitrile
Concen: 22.849 ug/l
RT: 4.74 min Scan# 417
Delta R.T. -0.04 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

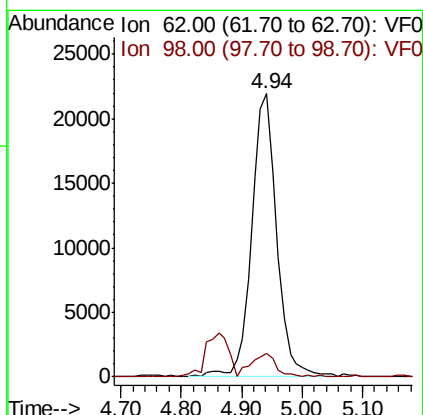
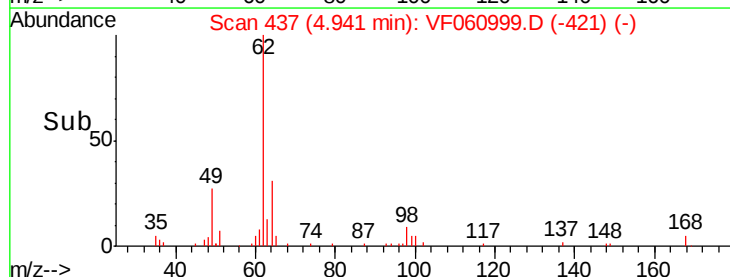
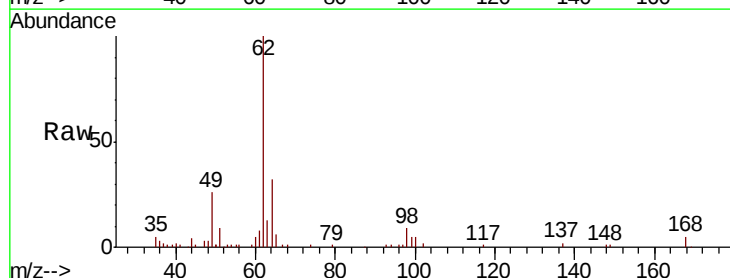
Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS02

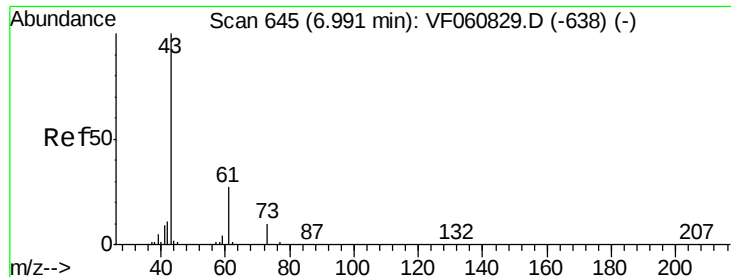
Tot Ion:	41	Resp:	16939
Ion	Ratio	Lower	Upper
41	100		
39	53.1	53.0	79.6
67	34.8	43.8	65.6
52	42.6	37.8	56.8



#42
1,2-Dichloroethane
Concen: 24.243 ug/l
RT: 4.94 min Scan# 437
Delta R.T. -0.04 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Tgt Ion:	62	Resp:	63081
Ion	Ratio	Lower	Upper
62	100		
98	8.5	0.0	17.2



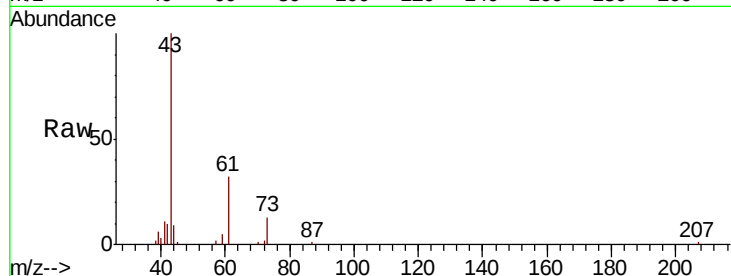


#43

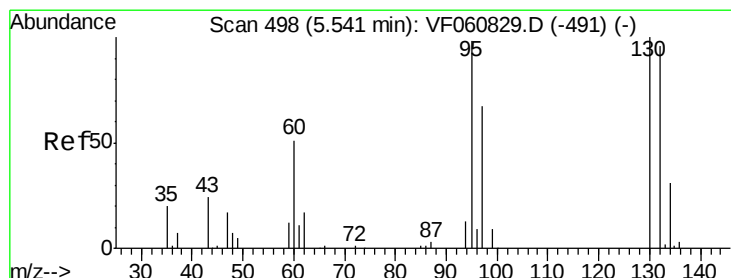
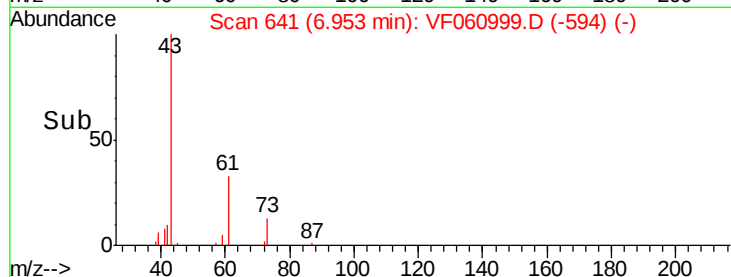
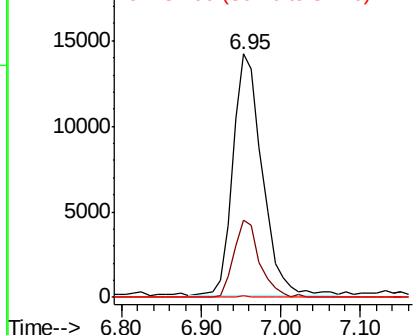
Isopropyl Acetate
 Concen: 20.861 ug/l
 RT: 6.95 min Scan# 641
 Delta R.T. -0.04 min
 Lab File: VF060999.D
 Acq: 12 Dec 2018 16:49

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1212SBS02

Tot Ion: 43 Resp: 36308
 Ion Ratio Lower Upper
 43 100
 61 31.5 21.4 32.0
 87 0.8 0.2 0.4#



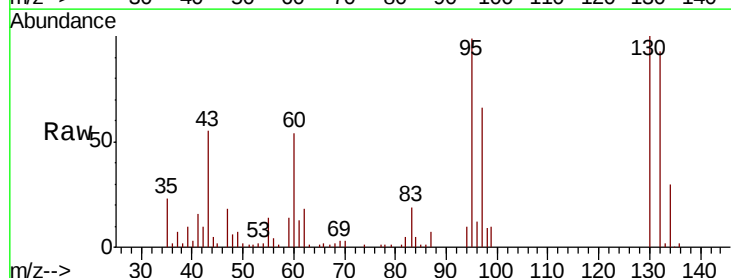
Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 87.00 (86.70 to 87.70): VF0



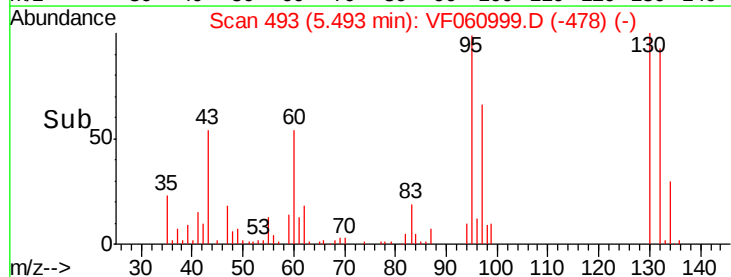
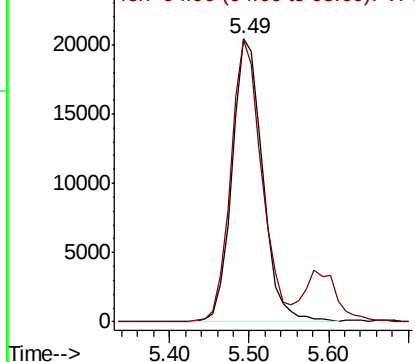
#44

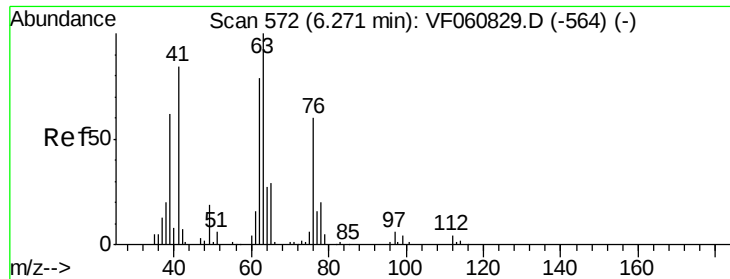
Trichloroethene
 Concen: 23.398 ug/l
 RT: 5.49 min Scan# 493
 Delta R.T. -0.05 min
 Lab File: VF060999.D
 Acq: 12 Dec 2018 16:49

Tgt Ion: 130 Resp: 54526
 Ion Ratio Lower Upper
 130 100
 95 99.5 0.0 195.6



Abundance Ion 129.90 (129.60 to 130.60): V
 Ion 94.90 (94.60 to 95.60): VF0

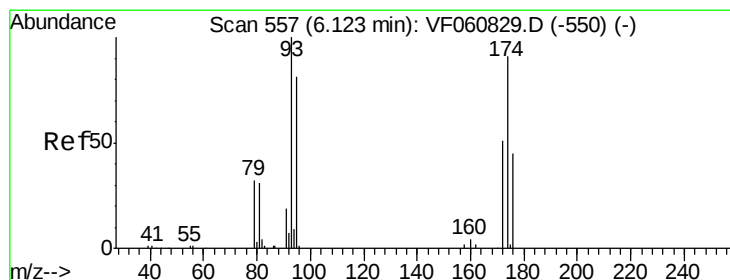
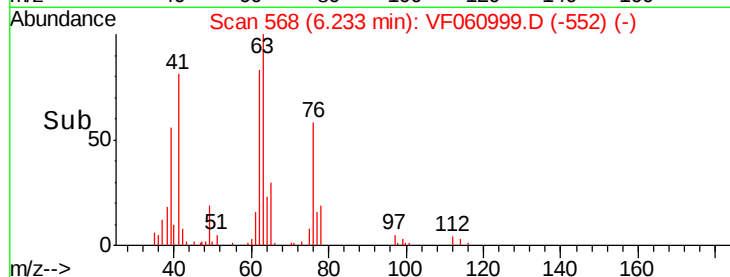
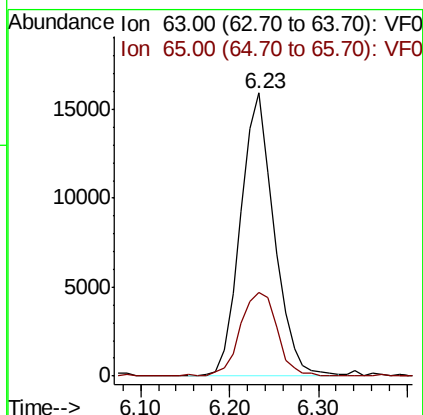
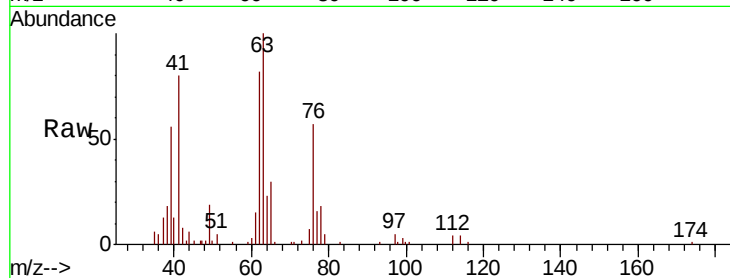




#45
 1,2-Dichloropropane
 Concen: 22.538 ug/l
 RT: 6.23 min Scan# 568
 Delta R.T. -0.04 min
 Lab File: VF060999.D
 Acq: 12 Dec 2018 16:49

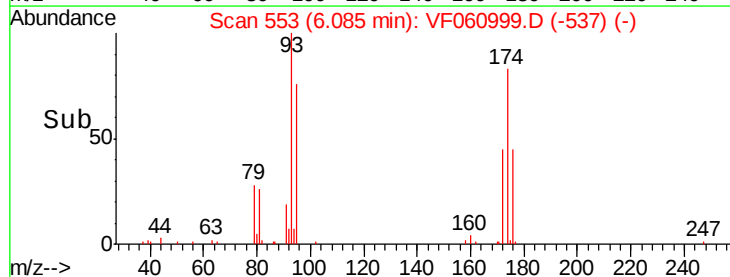
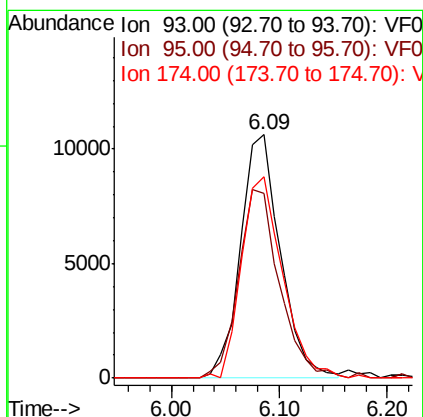
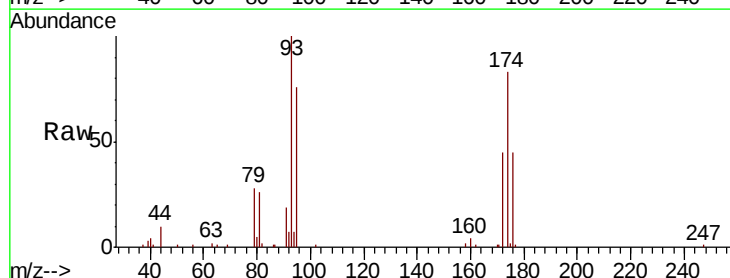
Instrument :
 MSVOA_F
 ClientSampleId :
 VF1212SBS02

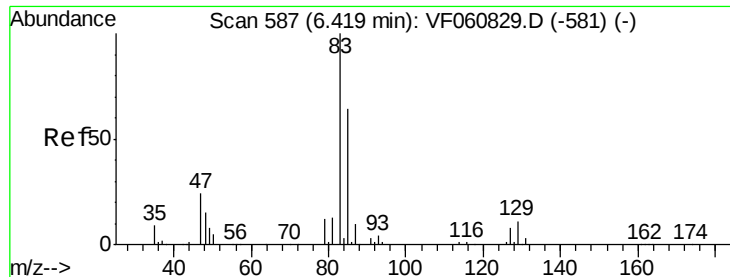
Tot Ion: 63 Resp: 41718
 Ion Ratio Lower Upper
 63 100
 65 29.7 23.2 34.8



#46
 Dibromomethane
 Concen: 21.838 ug/l
 RT: 6.09 min Scan# 553
 Delta R.T. -0.04 min
 Lab File: VF060999.D
 Acq: 12 Dec 2018 16:49

Tgt Ion: 93 Resp: 27421
 Ion Ratio Lower Upper
 93 100
 95 75.7 64.7 97.1
 174 82.7 73.0 109.6





#47

Bromodichloromethane

Concen: 22.866 ug/l

RT: 6.38 min Scan# 583

Delta R.T. -0.04 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS02

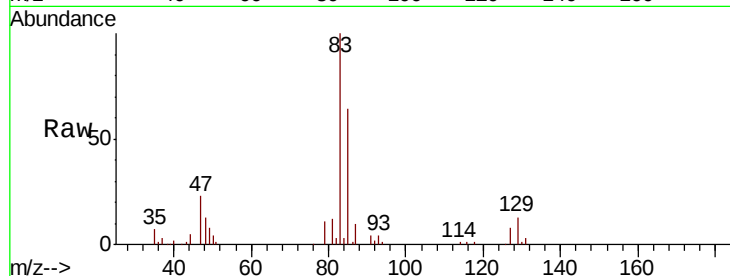
Tot Ion: 83 Resp: 76261

Ion Ratio Lower Upper

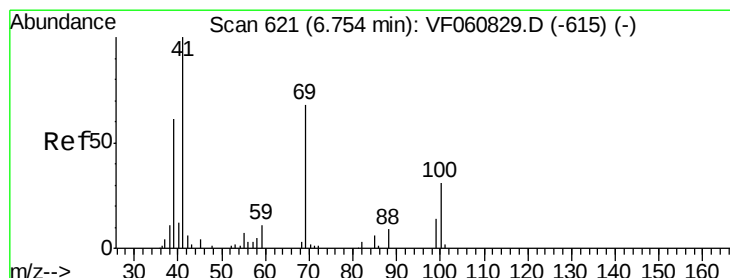
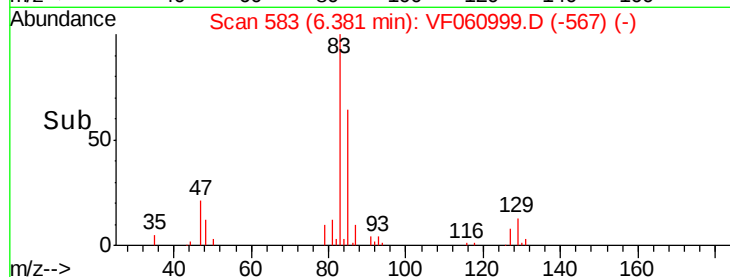
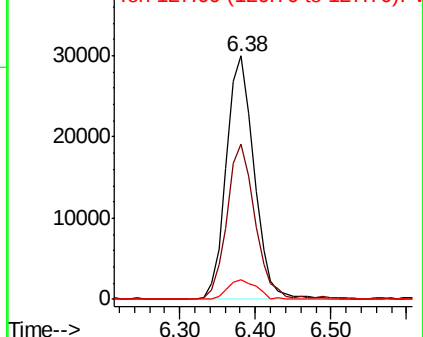
83 100

85 63.8 51.1 76.7

127 8.0 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: 21.186 ug/l

RT: 6.71 min Scan# 616

Delta R.T. -0.05 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

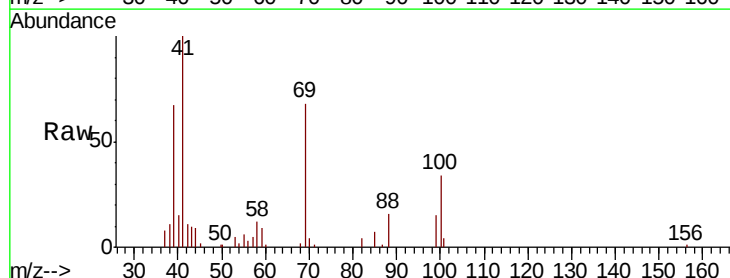
Tgt Ion: 41 Resp: 25141

Ion Ratio Lower Upper

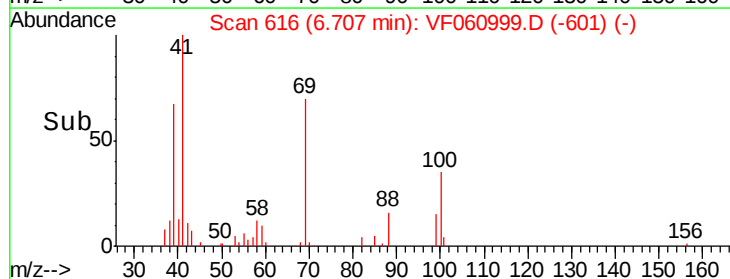
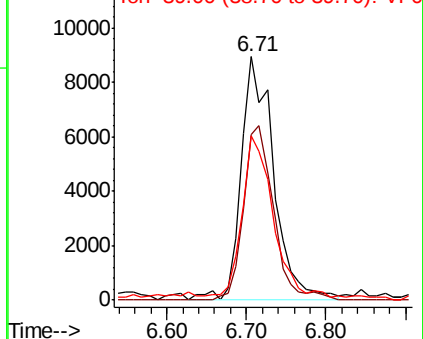
41 100

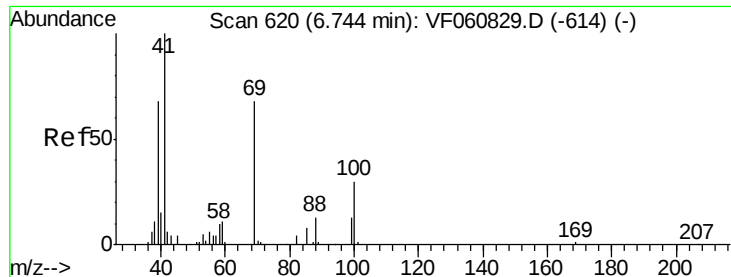
69 68.1 53.9 80.9

39 67.5 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: 460.675 ug/l

RT: 6.71 min Scan# 616

Delta R.T. -0.04 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS02

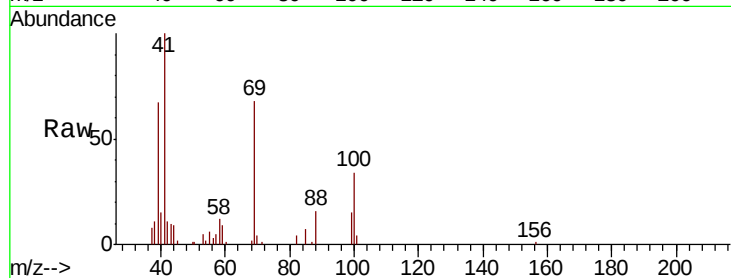
Tot Ion: 88 Resp: 4001

Ion Ratio Lower Upper

88 100

43 63.7 42.0 63.0#

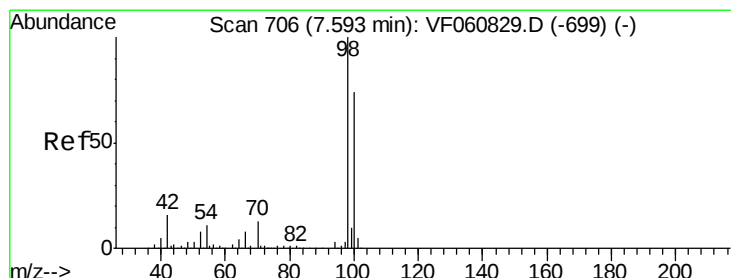
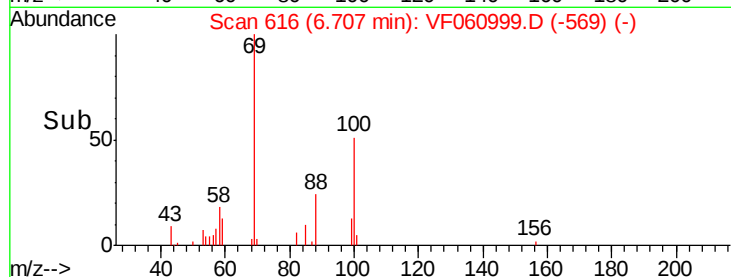
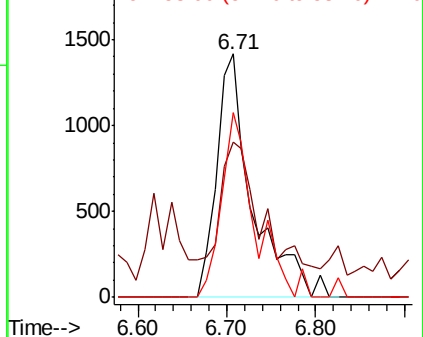
58 75.8 61.8 92.8



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 46.955 ug/l

RT: 7.55 min Scan# 701

Delta R.T. -0.05 min

Lab File: VF060999.D

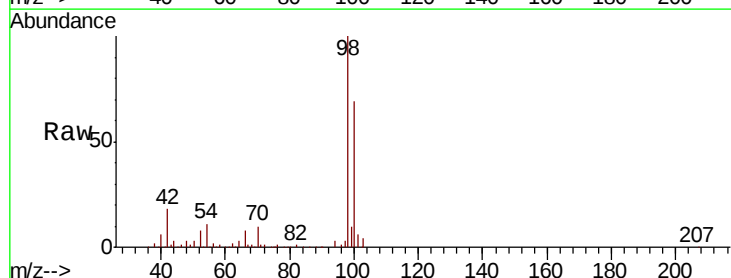
Acq: 12 Dec 2018 16:49

Tgt Ion: 98 Resp: 319160

Ion Ratio Lower Upper

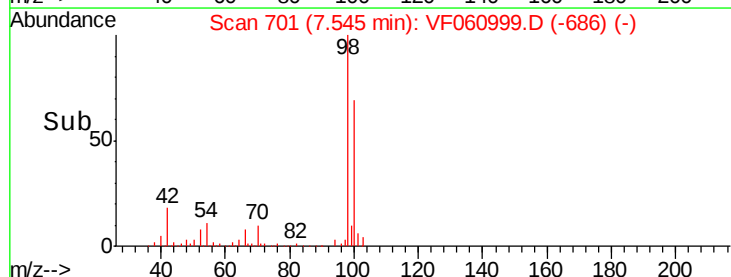
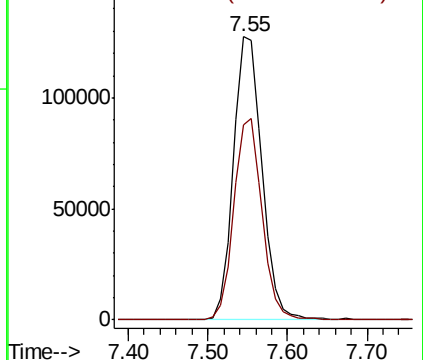
98 100

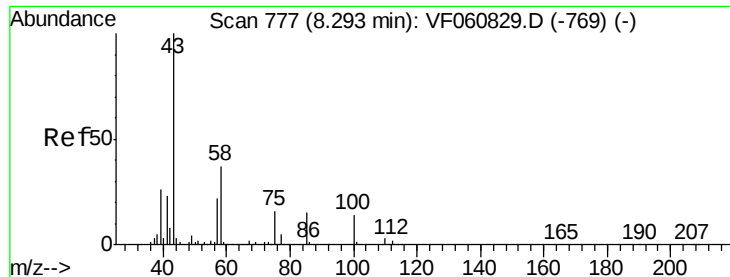
100 68.7 59.3 88.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 111.733 ug/l

RT: 8.26 min Scan# 773

Delta R.T. -0.04 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

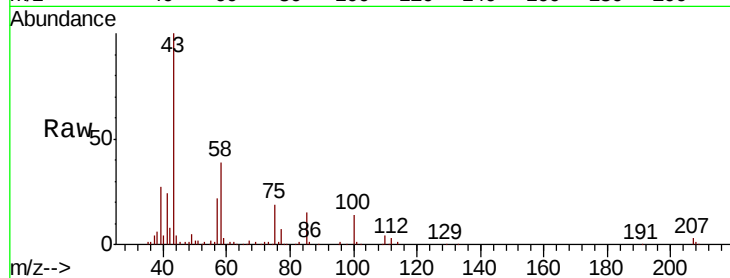
VF1212SBS02

Tot Ion: 43 Resp: 135081

Ion Ratio Lower Upper

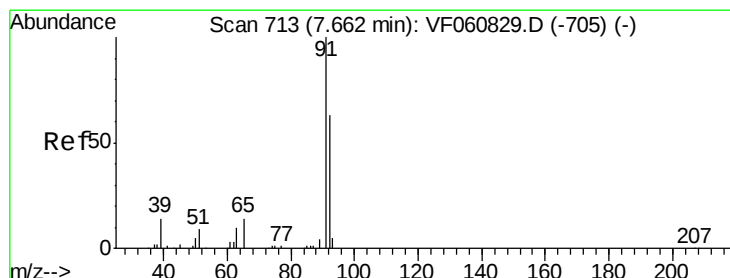
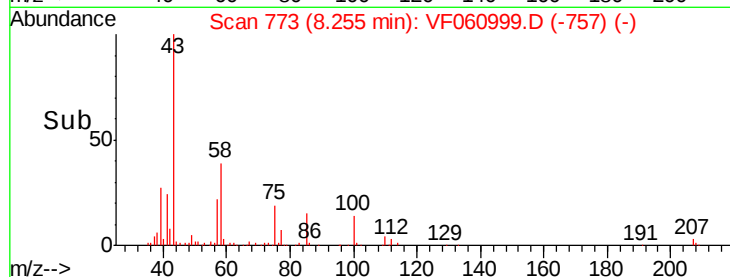
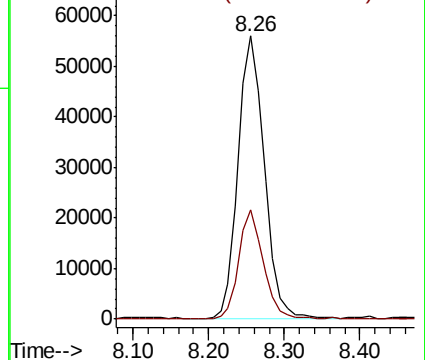
43 100

58 38.7 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: 20.305 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.05 min

Lab File: VF060999.D

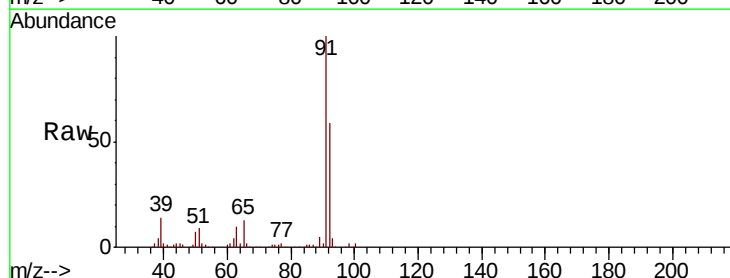
Acq: 12 Dec 2018 16:49

Tgt Ion: 92 Resp: 101652

Ion Ratio Lower Upper

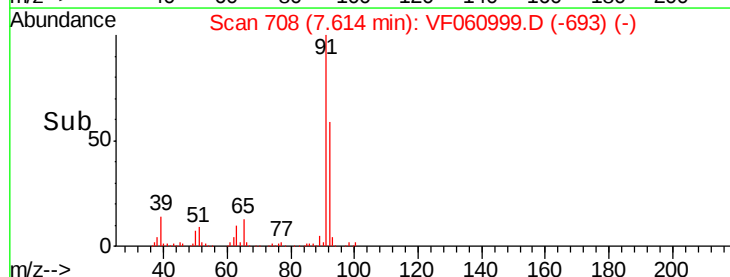
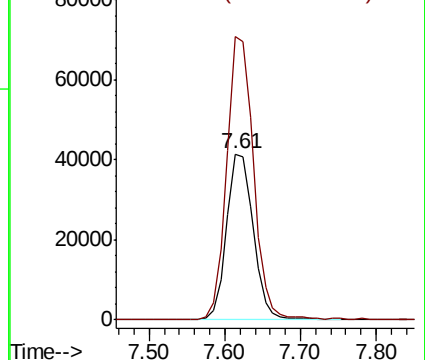
92 100

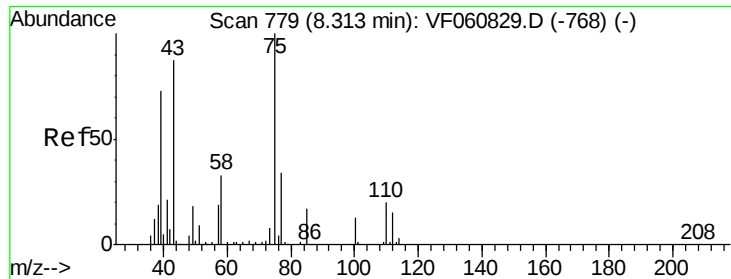
91 170.8 126.2 189.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

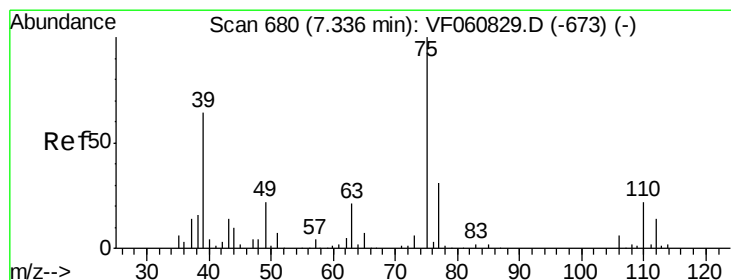
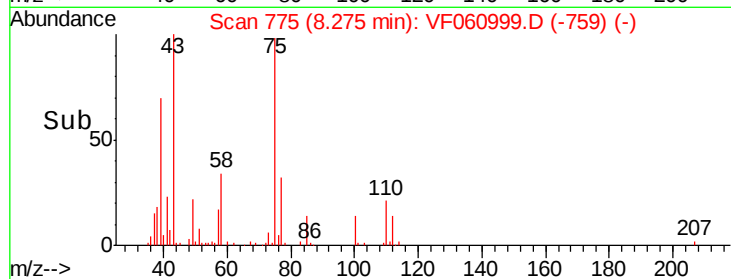
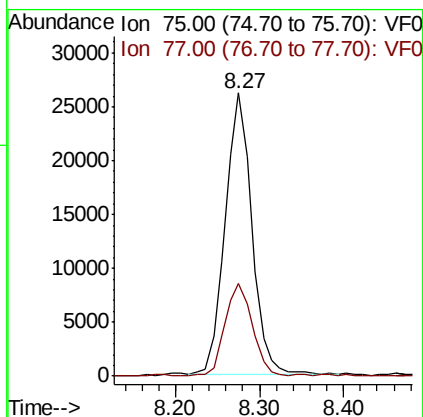
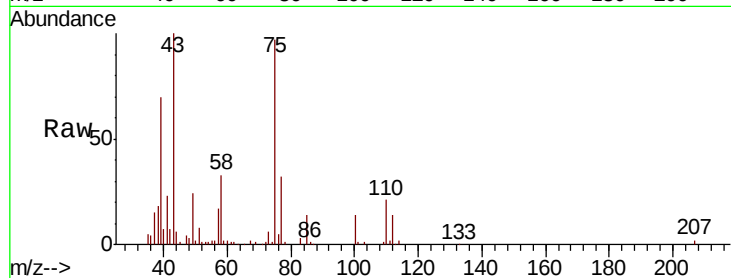




#53
 t-1,3-Dichloropropene
 Concen: 21.294 ug/l
 RT: 8.27 min Scan# 775
 Delta R.T. -0.04 min
 Lab File: VF060999.D
 Acq: 12 Dec 2018 16:49

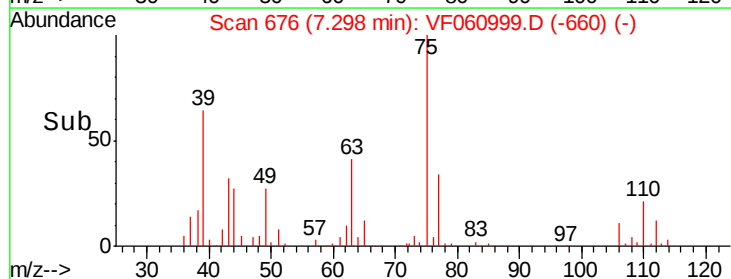
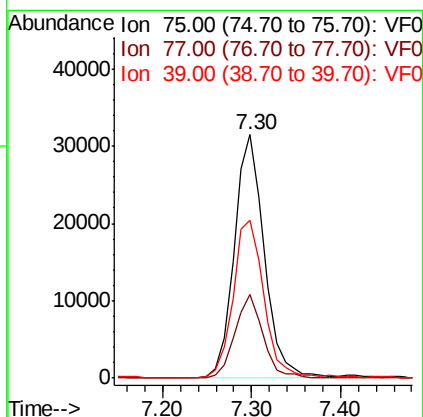
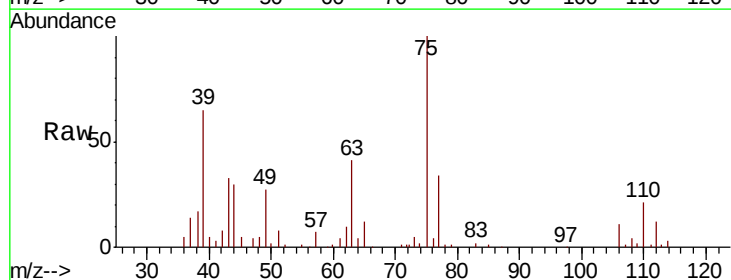
Instrument :
 MSVOA_F
 ClientSampleId :
 VF1212SBS02

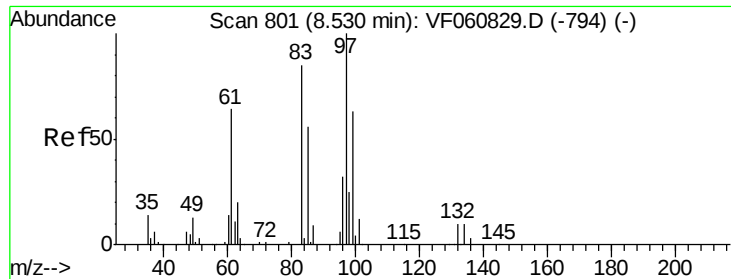
Tot Ion: 75 Resp: 57765
 Ion Ratio Lower Upper
 75 100
 77 32.8 27.4 41.2



#54
 cis-1,3-Dichloropropene
 Concen: 22.101 ug/l
 RT: 7.30 min Scan# 676
 Delta R.T. -0.04 min
 Lab File: VF060999.D
 Acq: 12 Dec 2018 16:49

Tgt Ion: 75 Resp: 74223
 Ion Ratio Lower Upper
 75 100
 77 34.3 25.0 37.6
 39 65.1 51.1 76.7





#55

1,1,2-Trichloroethane

Concen: 21.379 ug/l

RT: 8.48 min Scan# 796

Delta R.T. -0.05 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

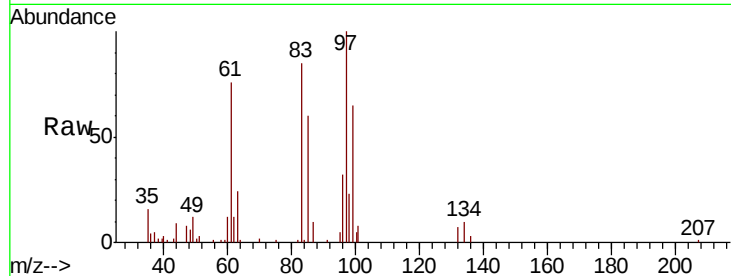
MSVOA_F

ClientSampleId :

VF1212SBS02

Tot Ion: 97 Resp: 31187

Ion	Ratio	Lower	Upper
97	100		
83	85.4	67.8	101.6
85	59.9	45.0	67.6
99	64.9	50.5	75.7

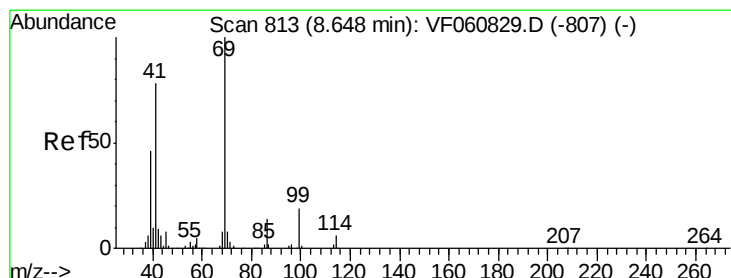
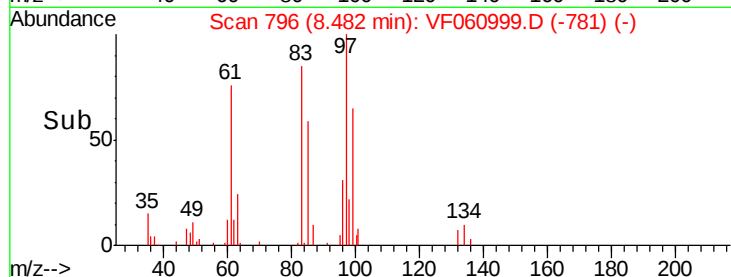


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 20.741 ug/l

RT: 8.62 min Scan# 810

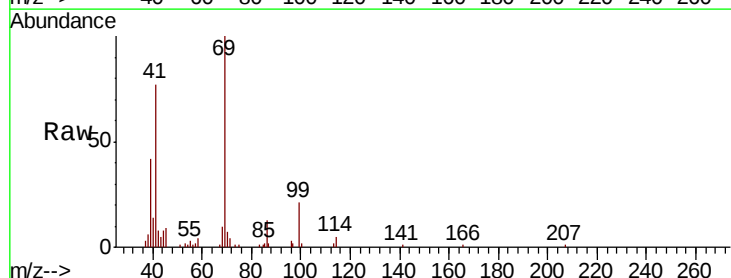
Delta R.T. -0.03 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Tgt Ion: 69 Resp: 33611

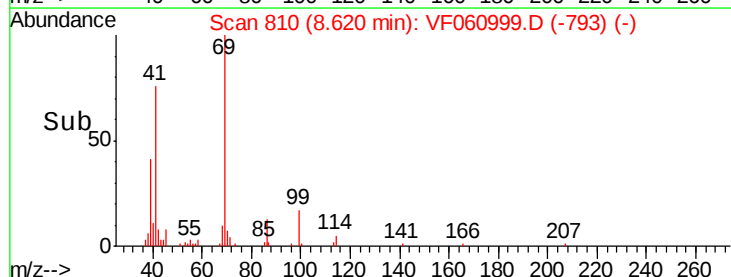
Ion	Ratio	Lower	Upper
69	100		
41	77.1	62.6	94.0
39	42.2	37.8	56.6

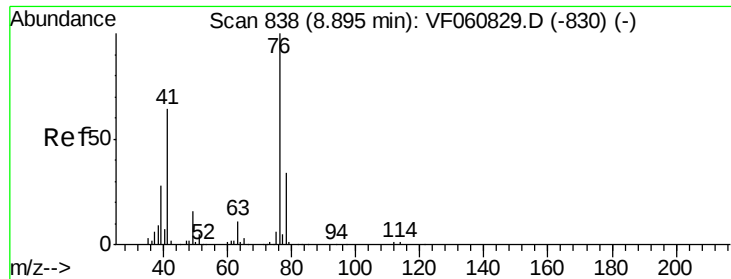


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 23.549 ug/l

RT: 8.85 min Scan# 833

Delta R.T. -0.05 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

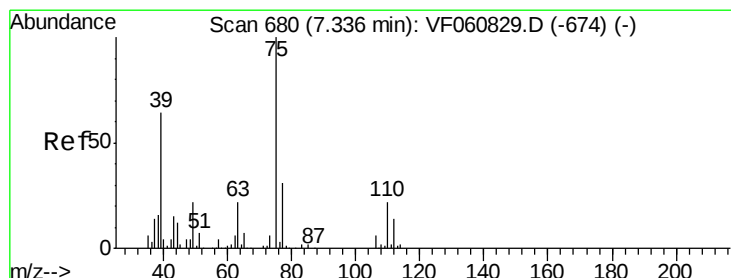
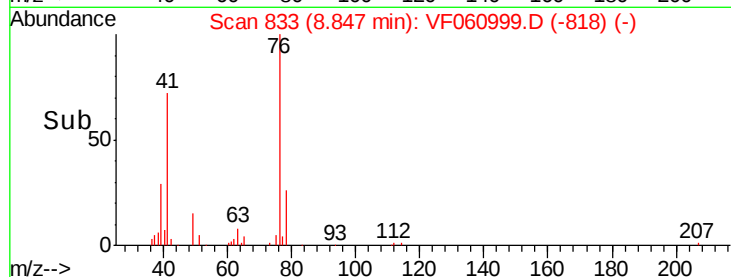
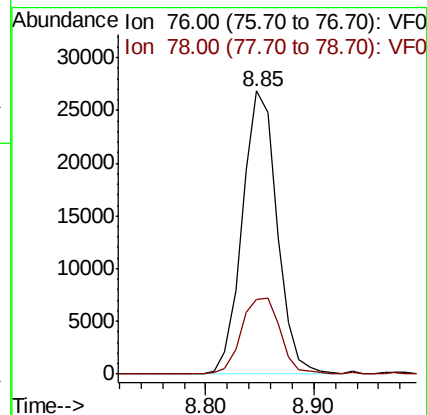
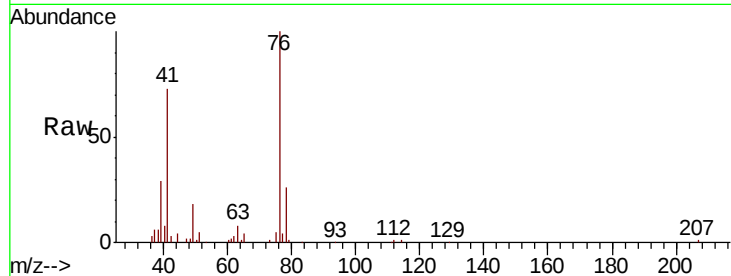
VF1212SBS02

Tot Ion: 76 Resp: 60100

Ion Ratio Lower Upper

76 100

78 26.2 27.0 40.4#



#58

2-Chloroethyl Vinyl ether

Concen: 196.347 ug/l

RT: 7.29 min Scan# 675

Delta R.T. -0.05 min

Lab File: VF060999.D

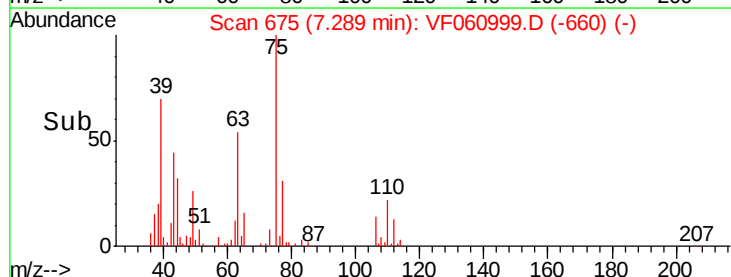
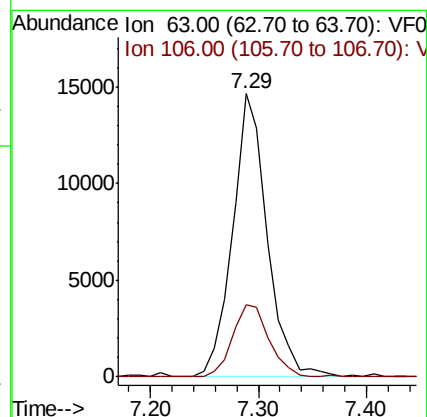
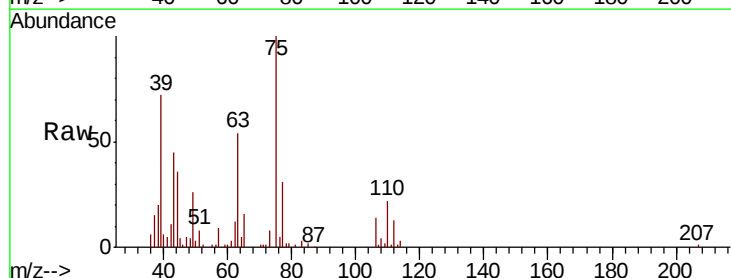
Acq: 12 Dec 2018 16:49

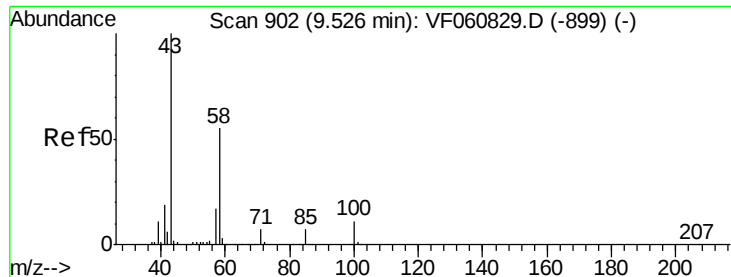
Tgt Ion: 63 Resp: 32545

Ion Ratio Lower Upper

63 100

106 25.4 23.0 34.6

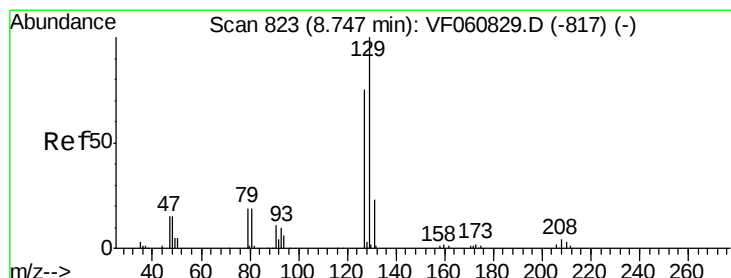
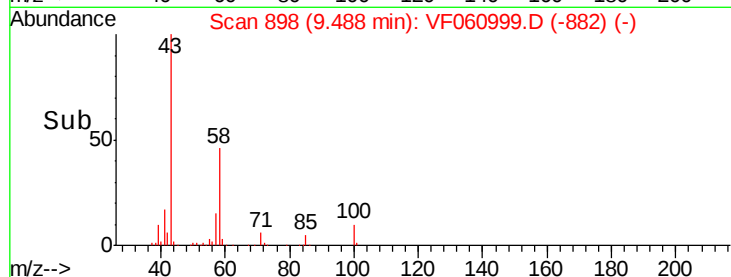
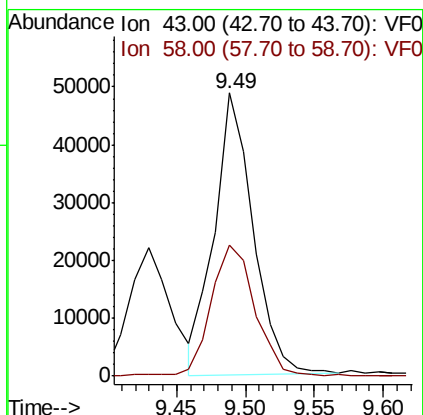
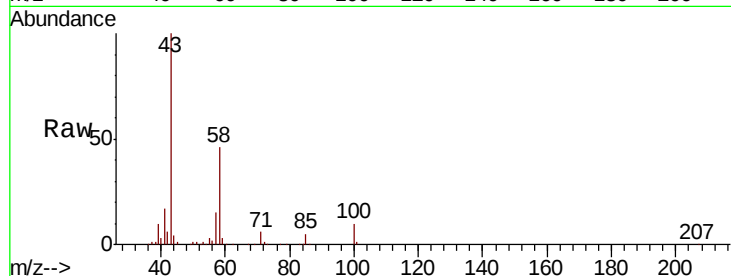




#59
2-Hexanone
Concen: 112.542 ug/l
RT: 9.49 min Scan# 898
Delta R.T. -0.04 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

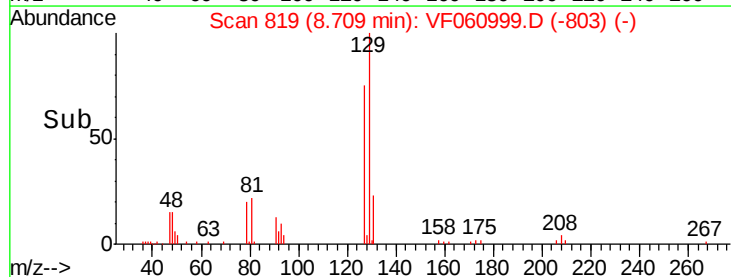
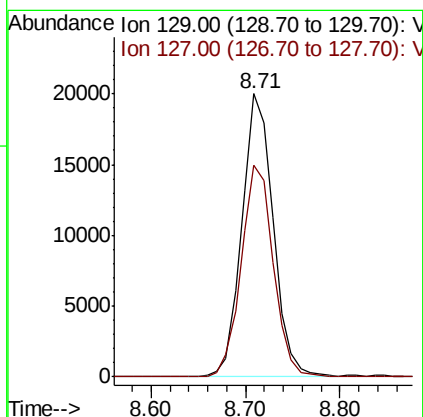
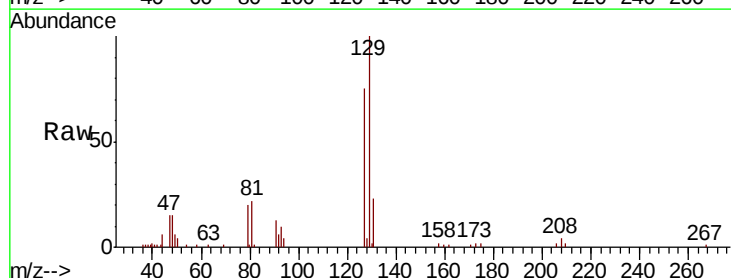
Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS02

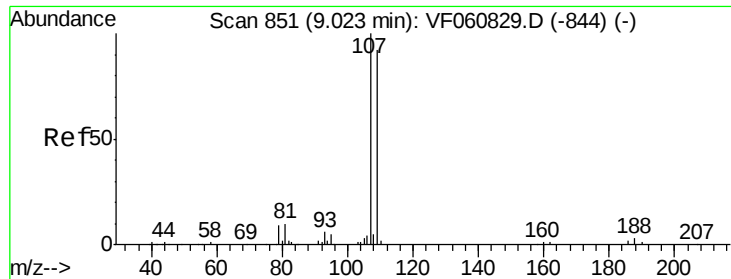
Tot Ion: 43 Resp: 95454
Ion Ratio Lower Upper
43 100
58 46.3 25.6 76.6



#60
Dibromochloromethane
Concen: 21.145 ug/l
RT: 8.71 min Scan# 819
Delta R.T. -0.04 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Tgt Ion: 129 Resp: 45959
Ion Ratio Lower Upper
129 100
127 74.7 37.3 111.9





#61

1,2-Dibromoethane

Concen: 21.422 ug/l

RT: 8.99 min Scan# 847

Delta R.T. -0.04 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

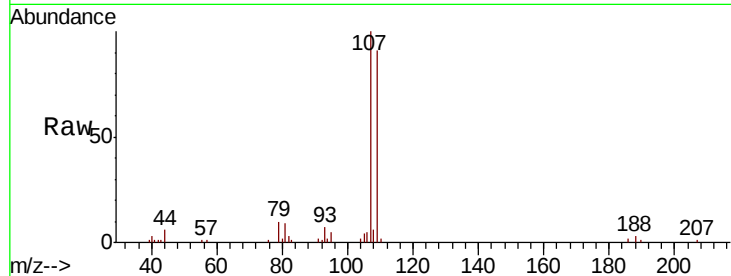
VF1212SBS02

Tot Ion:107 Resp: 33758

Ion Ratio Lower Upper

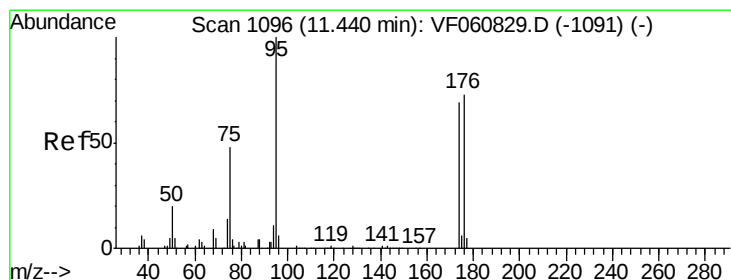
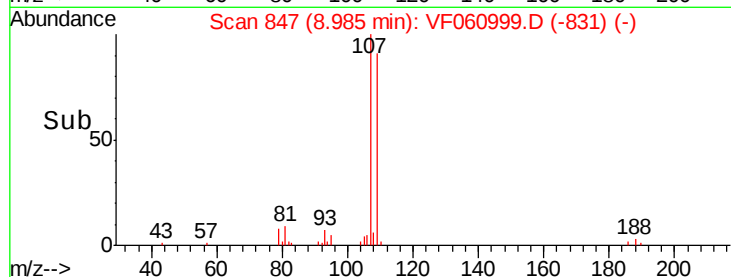
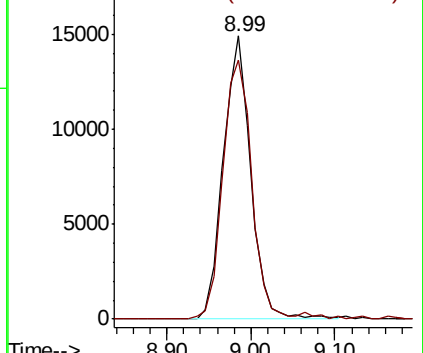
107 100

109 91.5 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: 50.149 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.04 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

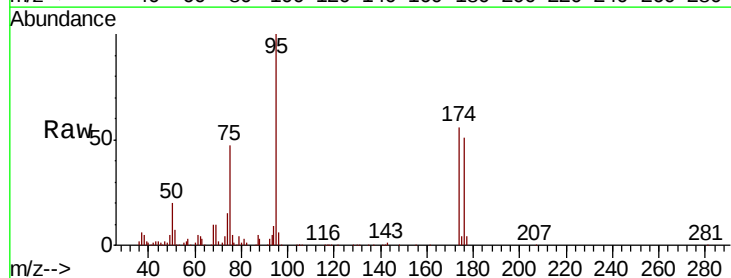
Tgt Ion: 95 Resp: 154921

Ion Ratio Lower Upper

95 100

174 56.0 0.0 138.2

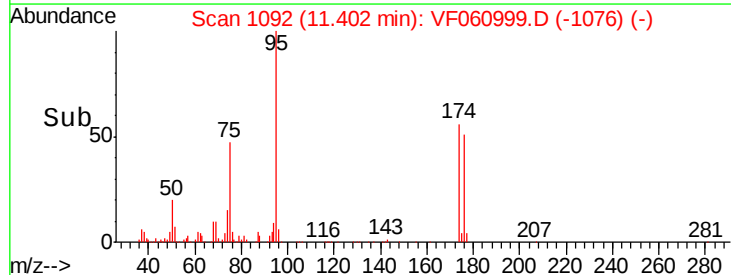
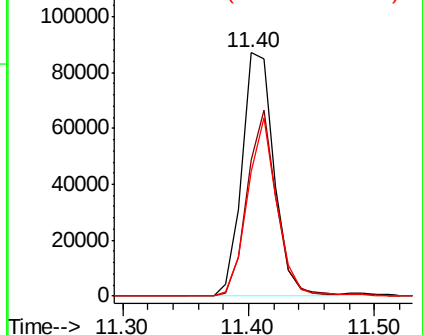
176 50.9 0.0 146.2

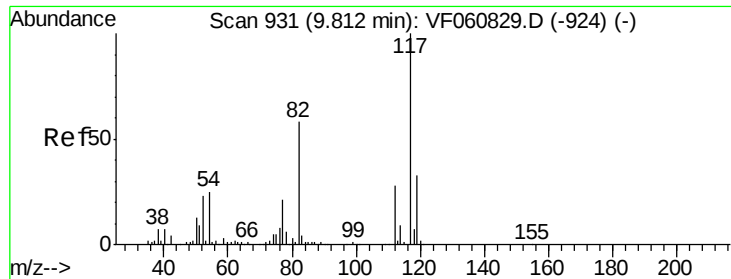


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

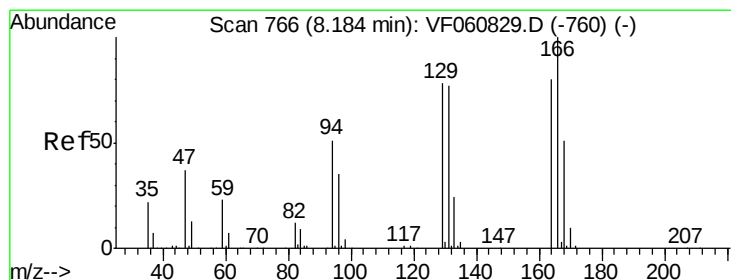
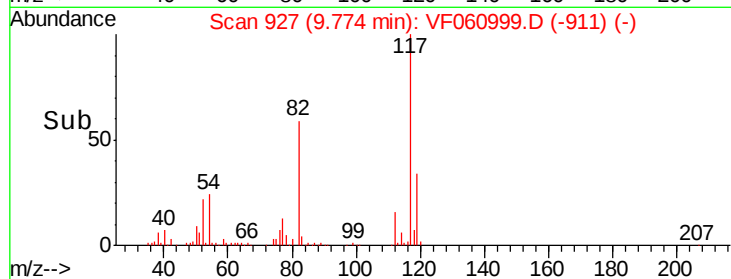
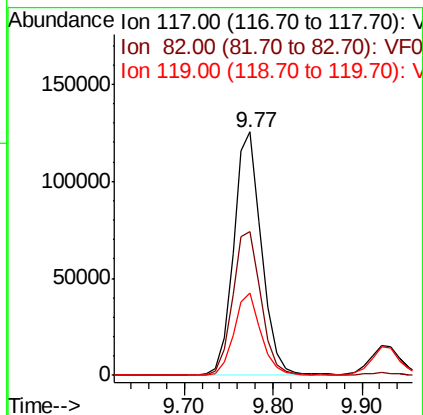
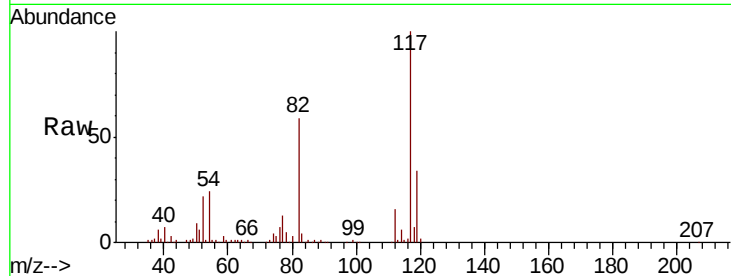




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.04 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

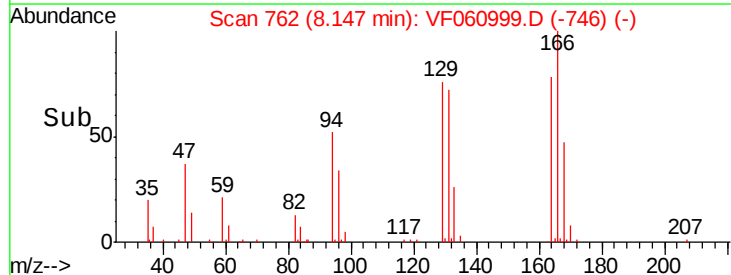
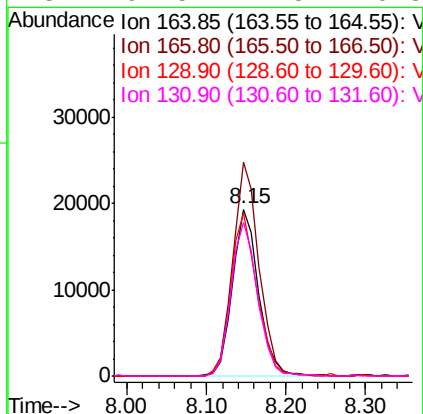
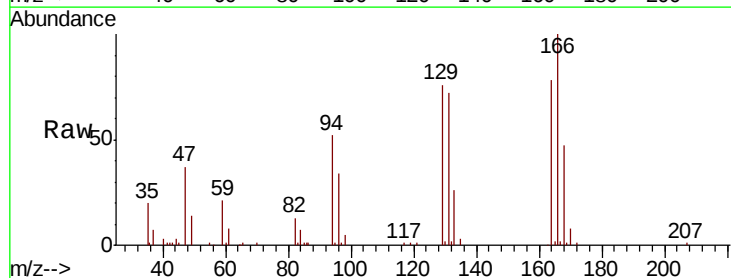
Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS02

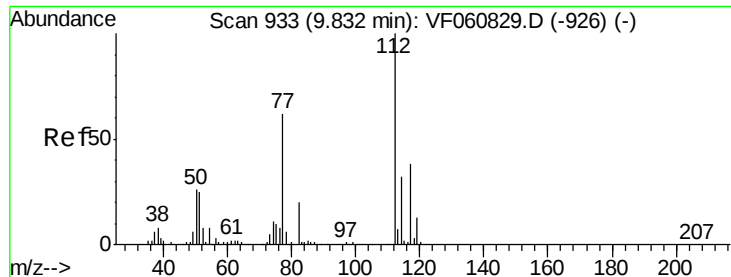
Tot Ion:117 Resp: 273929
Ion Ratio Lower Upper
117 100
82 59.2 46.6 69.8
119 33.8 26.4 39.6



#64
Tetrachloroethene
Concen: 21.113 ug/l
RT: 8.15 min Scan# 762
Delta R.T. -0.04 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Tgt Ion:164 Resp: 44174
Ion Ratio Lower Upper
164 100
166 128.3 100.3 150.5
129 97.6 77.9 116.9
131 92.5 77.5 116.3

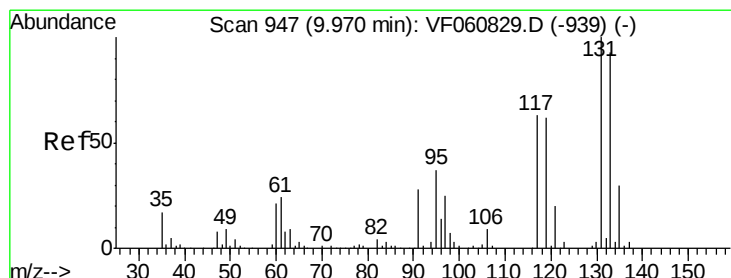
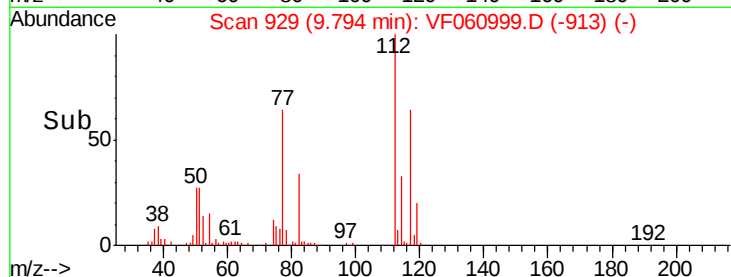
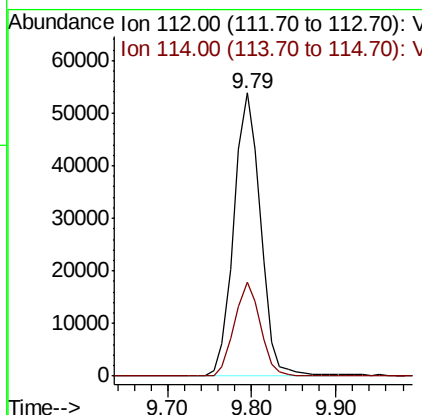
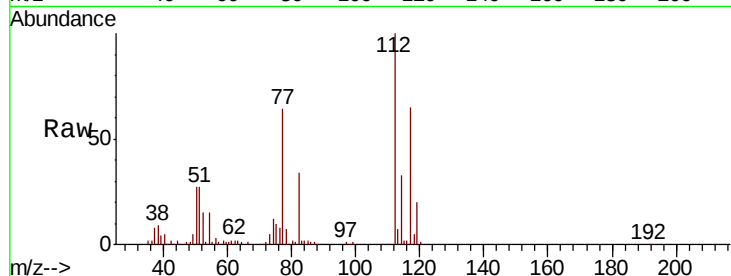




#65
Chlorobenzene
Concen: 22.404 ug/l
RT: 9.79 min Scan# 929
Delta R.T. -0.04 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

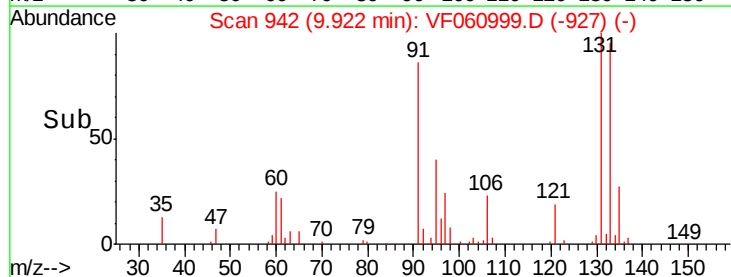
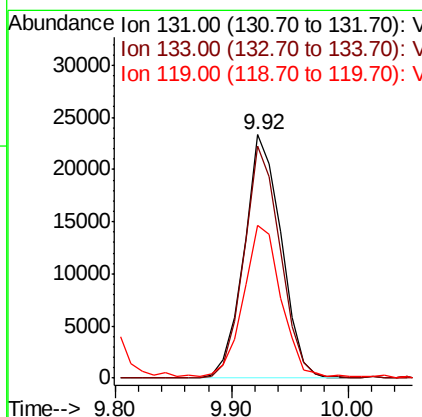
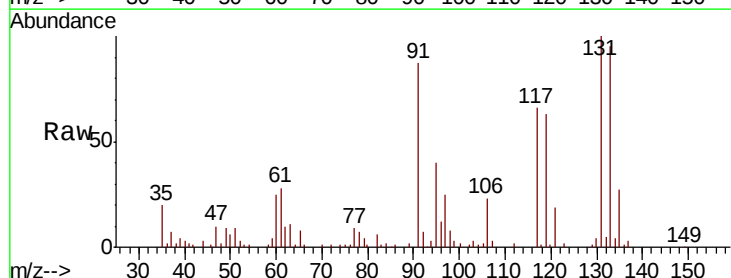
Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS02

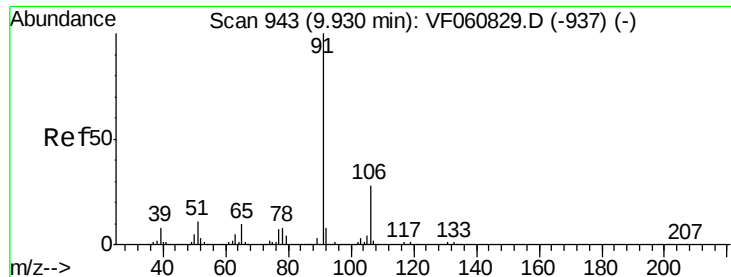
Tot Ion:112 Resp: 119393
Ion Ratio Lower Upper
112 100
114 33.3 26.0 39.0



#66
1,1,1,2-Tetrachloroethane
Concen: 22.423 ug/l
RT: 9.92 min Scan# 942
Delta R.T. -0.05 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Tgt Ion:131 Resp: 51370
Ion Ratio Lower Upper
131 100
133 95.5 46.5 139.3
119 62.5 31.1 93.3

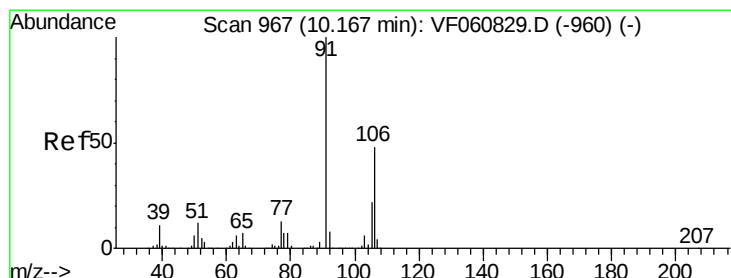
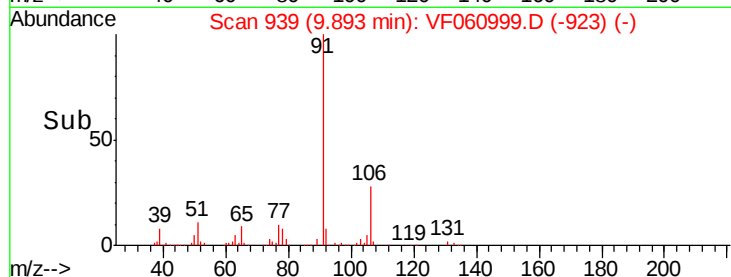
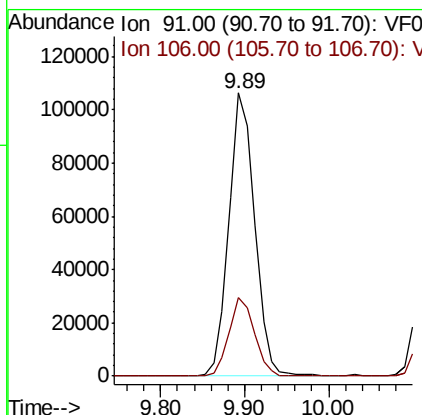
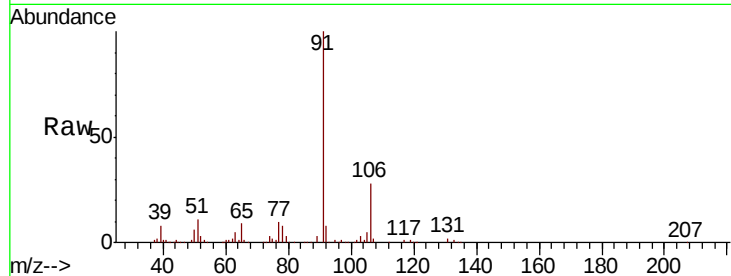




#67
Ethyl Benzene
Concen: 22.947 ug/l
RT: 9.89 min Scan# 939
Delta R.T. -0.04 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

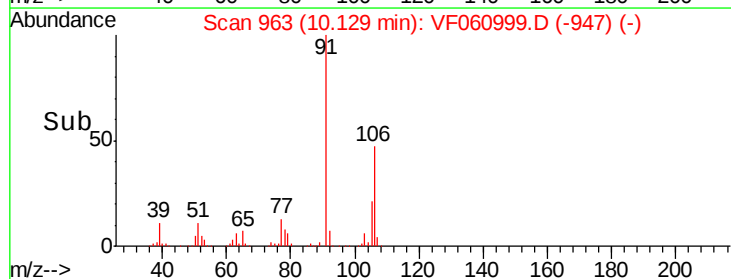
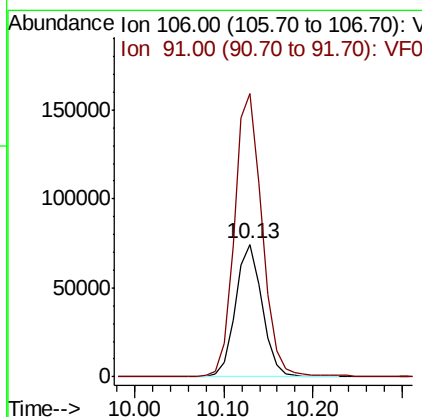
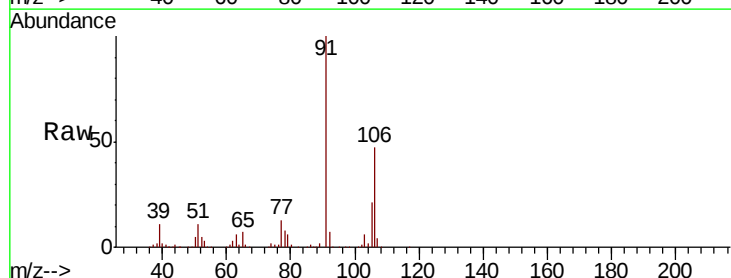
Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS02

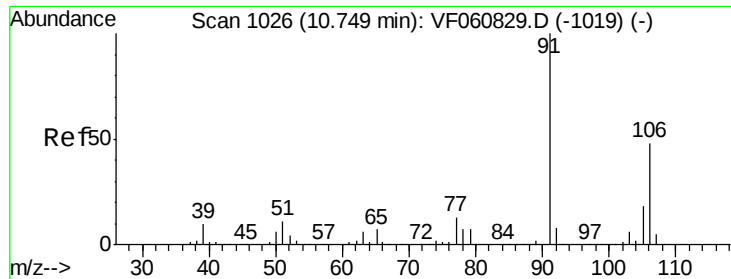
Tot Ion: 91 Resp: 227651
Ion Ratio Lower Upper
91 100
106 27.6 22.2 33.2



#68
m/p-Xylenes
Concen: 43.915 ug/l
RT: 10.13 min Scan# 963
Delta R.T. -0.04 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Tgt Ion: 106 Resp: 156697
Ion Ratio Lower Upper
106 100
91 213.6 166.7 250.1

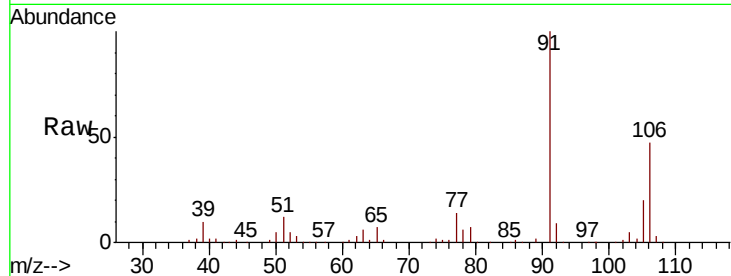




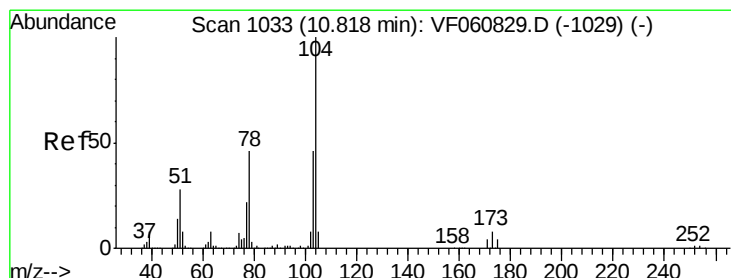
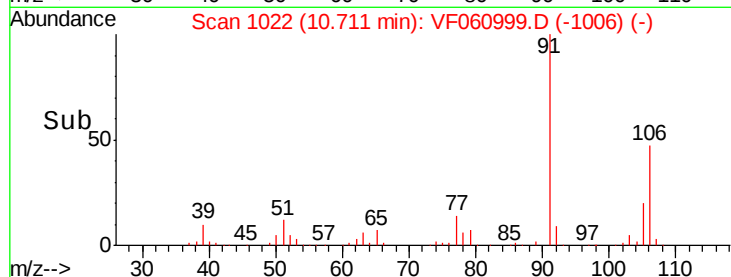
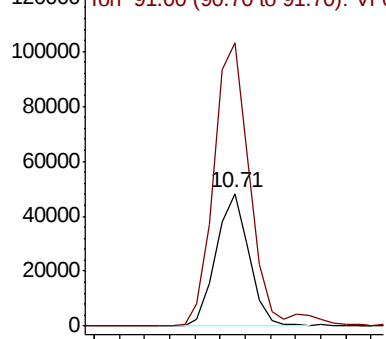
#69
o-Xylene
Concen: 22.275 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. -0.04 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS02

Tot Ion:106 Resp: 87644
Ion Ratio Lower Upper
106 100
91 212.9 104.8 314.6

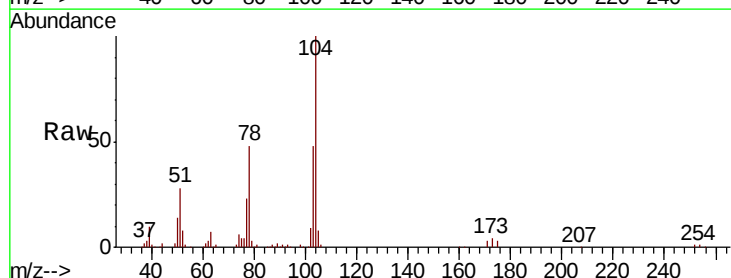


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

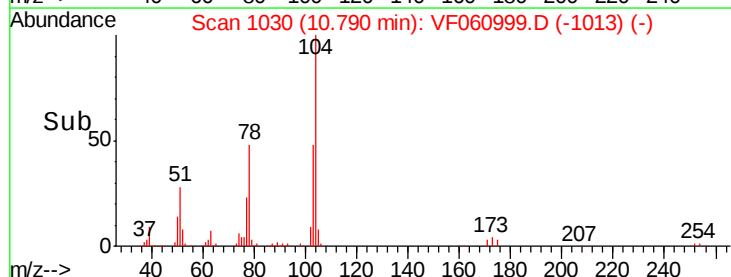
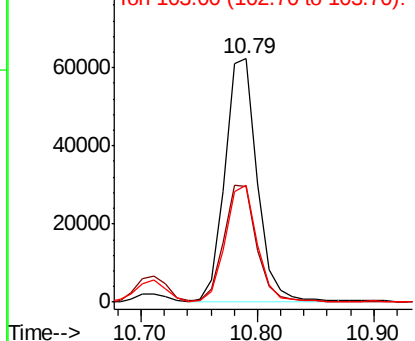


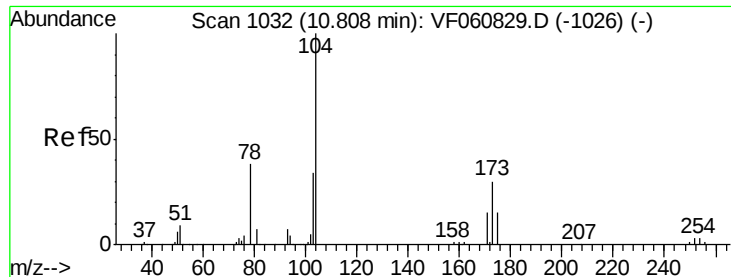
#70
Styrene
Concen: 21.956 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. -0.03 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Tgt Ion:104 Resp: 119755
Ion Ratio Lower Upper
104 100
78 47.6 37.3 55.9
103 48.1 36.8 55.2



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VF0
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 20.490 ug/l

RT: 10.77 min Scan# 1028

Delta R.T. -0.04 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS02

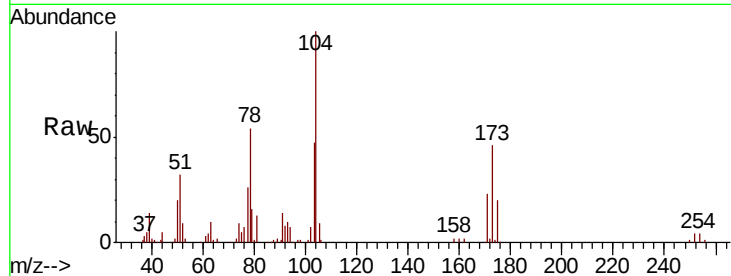
Tot Ion:173 Resp: 22674

Ion Ratio Lower Upper

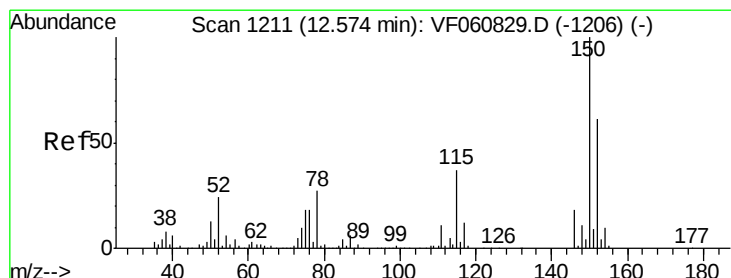
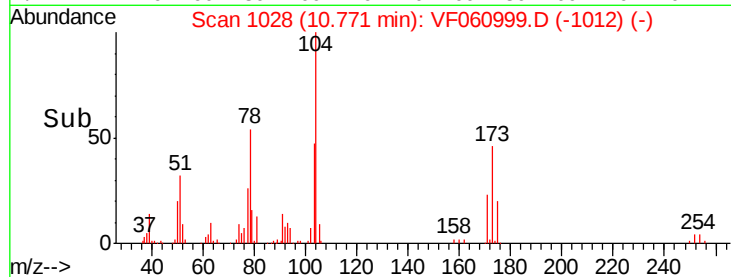
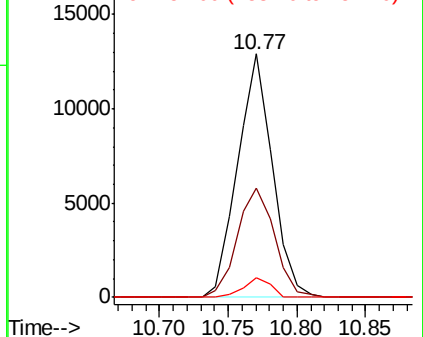
173 100

175 45.6 25.5 76.5

254 8.2 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# 1208

Delta R.T. -0.03 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

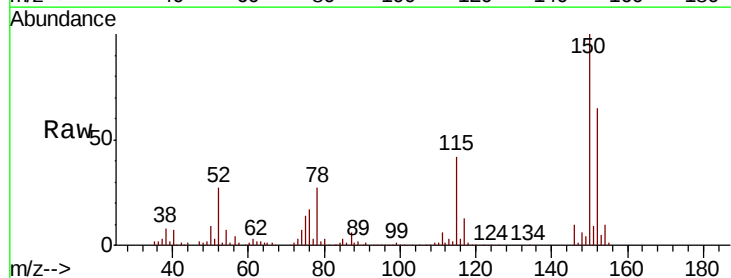
Tgt Ion:152 Resp: 145261

Ion Ratio Lower Upper

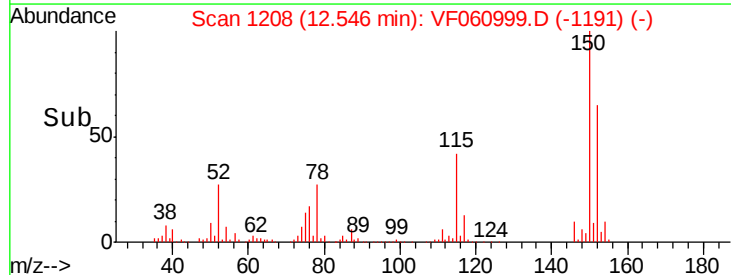
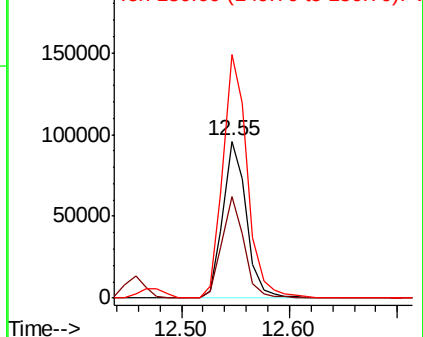
152 100

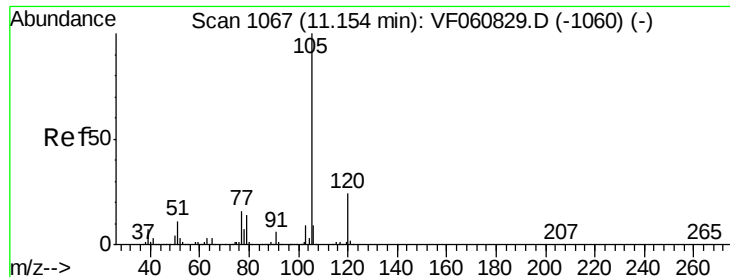
115 64.7 30.1 90.5

150 155.0 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: 22.841 ug/l

RT: 11.13 min Scan# 1064

Delta R.T. -0.03 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

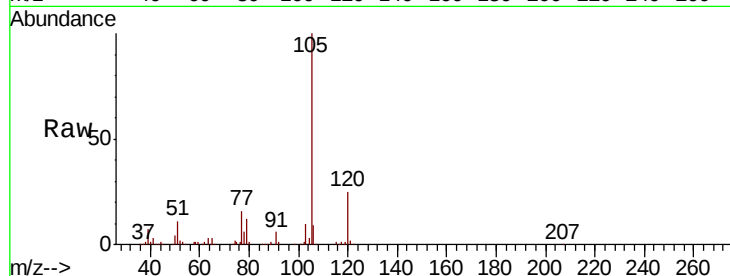
VF1212SBS02

Tot Ion:105 Resp: 262205

Ion Ratio Lower Upper

105 100

120 24.7 12.2 36.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.13

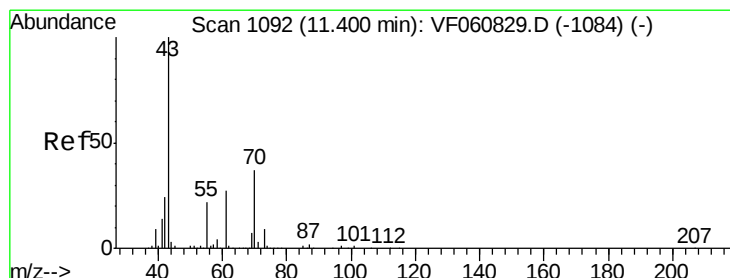
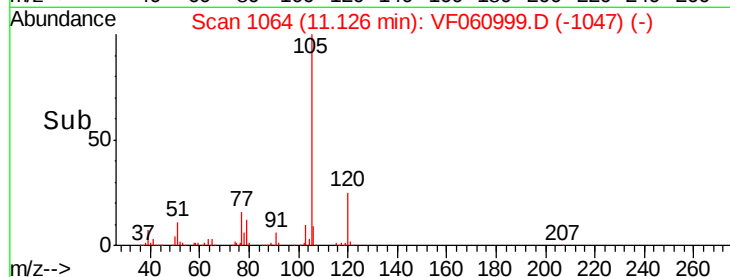
150000

100000

50000

0

Time--> 11.00 11.10 11.20



#74

N-ethyl acetate

Concen: 22.264 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.03 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Tgt Ion: 43 Resp: 59016

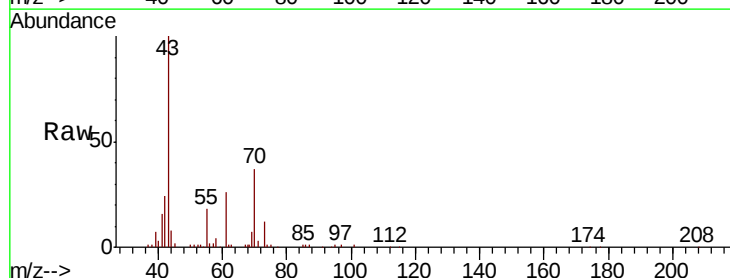
Ion Ratio Lower Upper

43 100

70 36.8 29.6 44.4

55 17.6 17.2 25.8

61 26.3 21.8 32.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

11.37

50000

40000

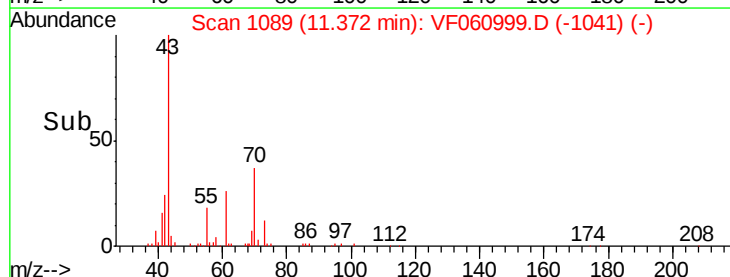
30000

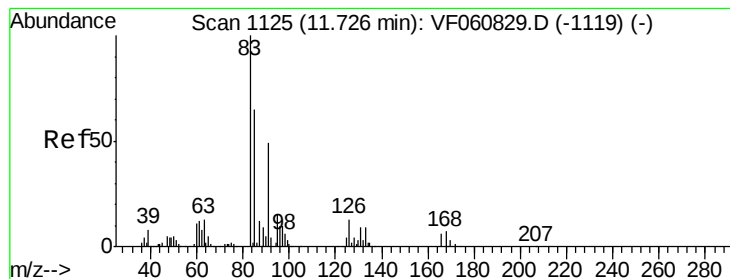
20000

10000

0

Time--> 11.30 11.40 11.50





#75

1,1,2,2-Tetrachloroethane

Concen: 22.769 ug/l

RT: 11.69 min Scan# 1121

Delta R.T. -0.04 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS02

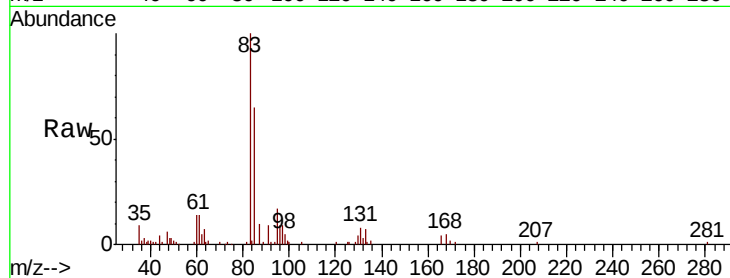
Tot Ion: 83 Resp: 43016

Ion Ratio Lower Upper

83 100

131 8.1 4.7 14.1

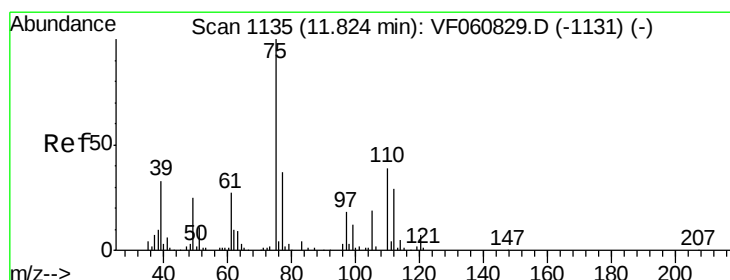
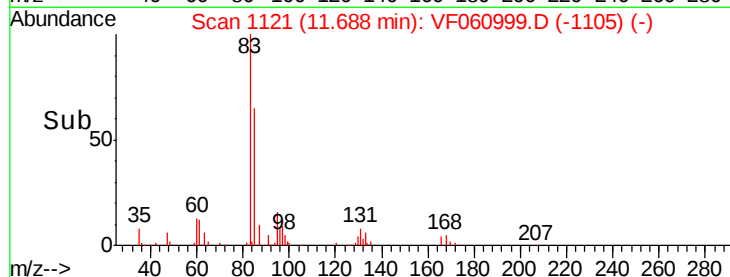
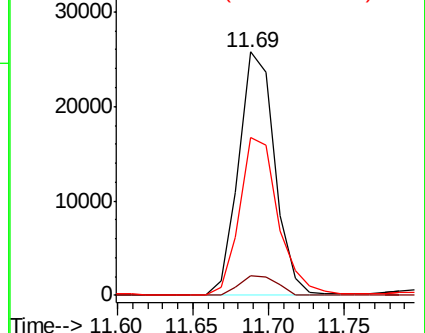
85 65.0 32.6 97.8



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 22.542 ug/l

RT: 11.80 min Scan# 1132

Delta R.T. -0.03 min

Lab File: VF060999.D

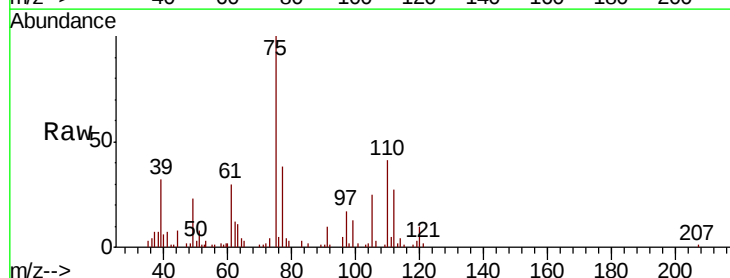
Acq: 12 Dec 2018 16:49

Tgt Ion: 75 Resp: 30955

Ion Ratio Lower Upper

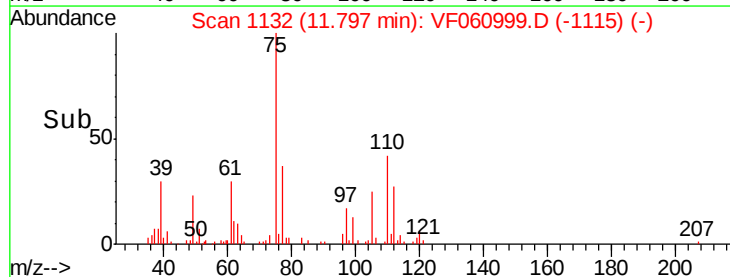
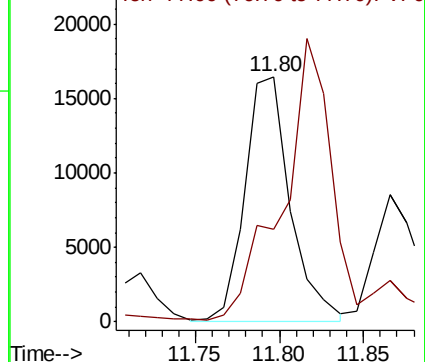
75 100

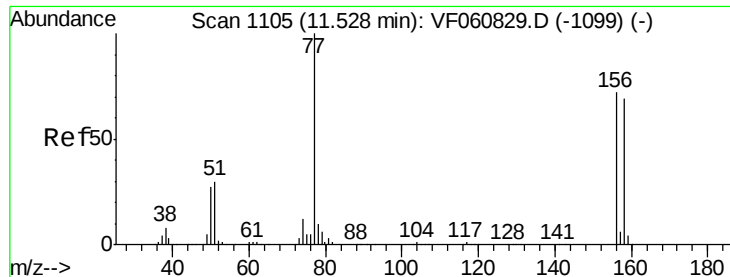
77 38.0 18.4 55.4



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 21.892 ug/l

RT: 11.49 min Scan# 1101

Delta R.T. -0.04 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS02

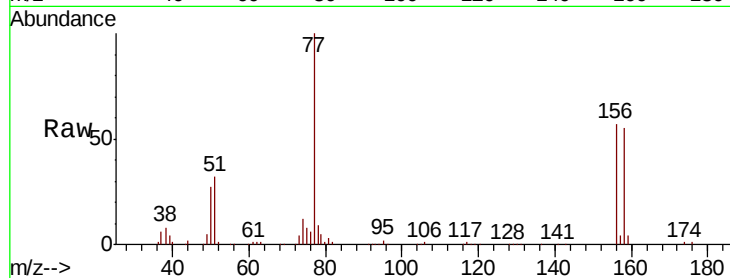
Tot Ion:156 Resp: 55095

Ion Ratio Lower Upper

156 100

77 175.0 69.7 209.0

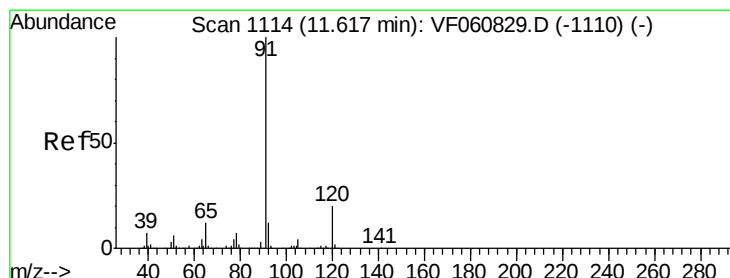
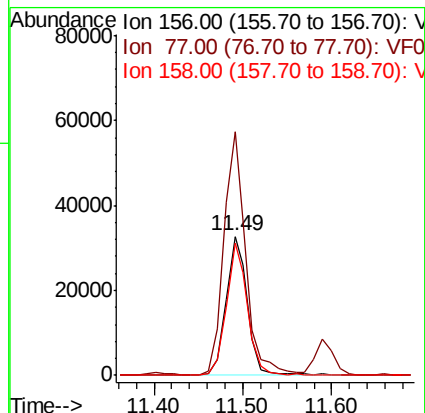
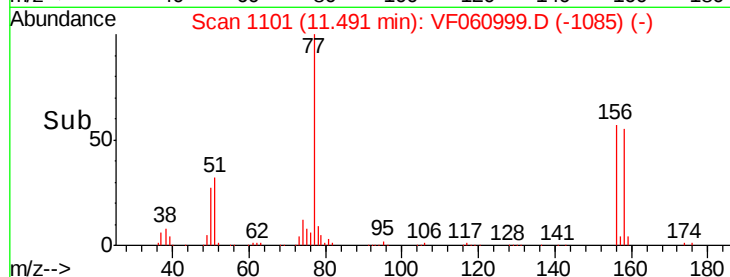
158 95.5 47.8 143.4



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: 23.011 ug/l

RT: 11.59 min Scan# 1111

Delta R.T. -0.03 min

Lab File: VF060999.D

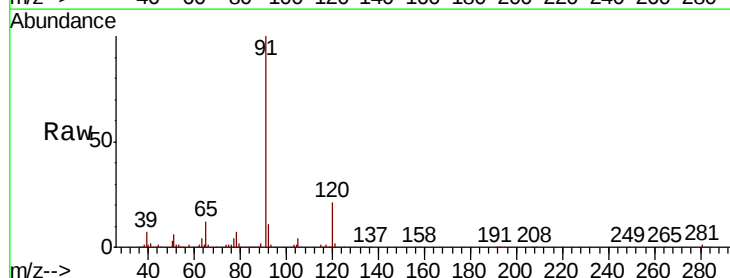
Acq: 12 Dec 2018 16:49

Tgt Ion: 91 Resp: 309334

Ion Ratio Lower Upper

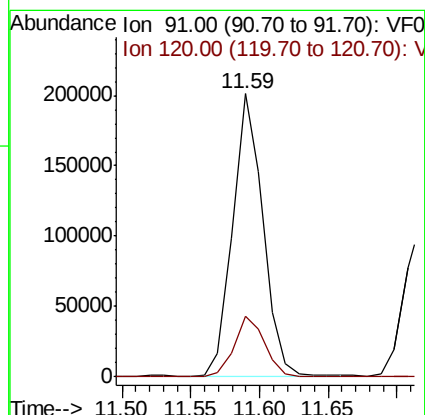
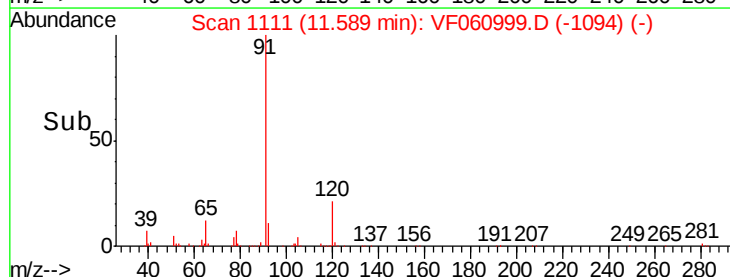
91 100

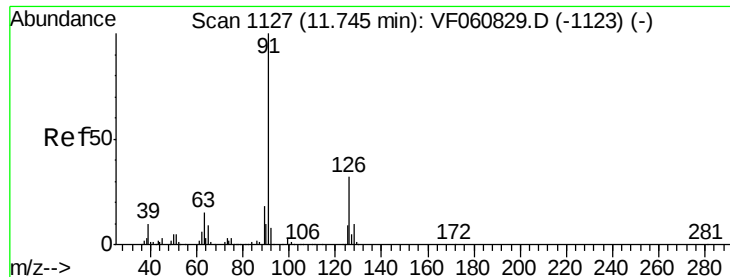
120 21.4 10.3 30.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

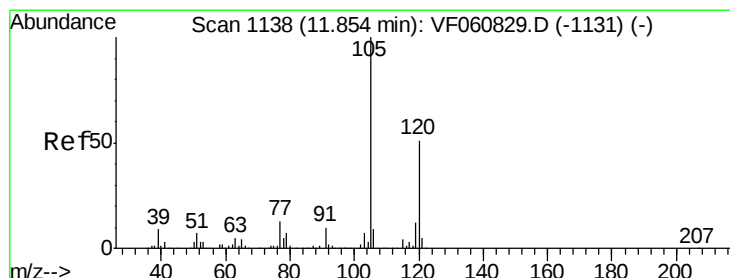
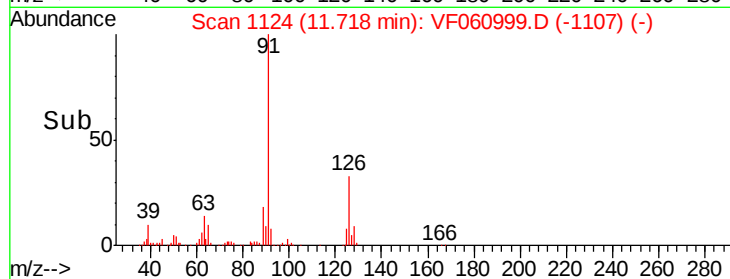
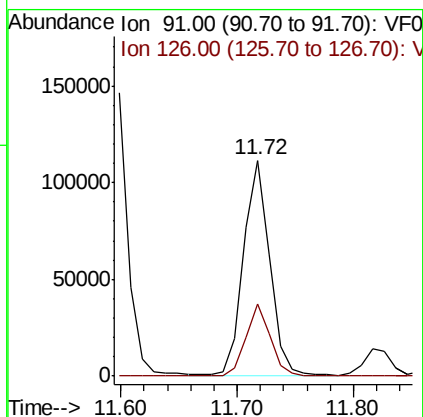
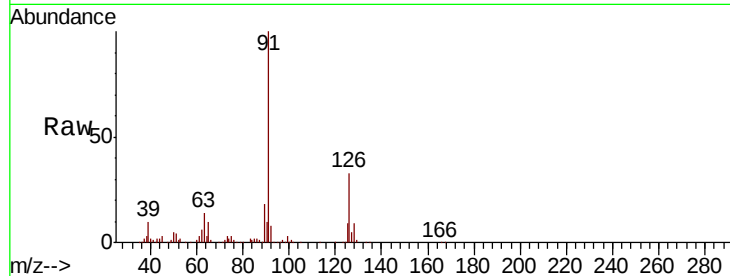




#79
 2-Chlorotoluene
 Concen: 22.320 ug/l
 RT: 11.72 min Scan# 1124
 Delta R.T. -0.03 min
 Lab File: VF060999.D
 Acq: 12 Dec 2018 16:49

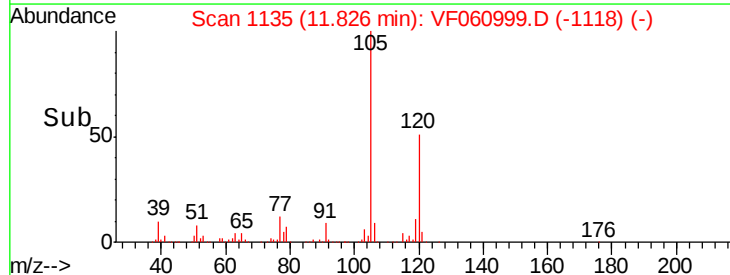
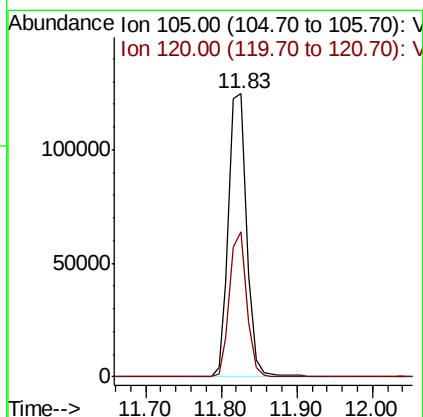
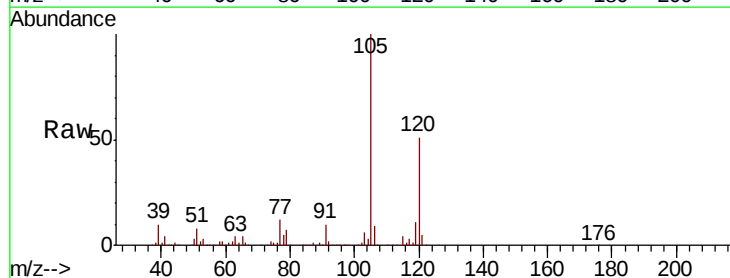
Instrument :
 MSVOA_F
 ClientSampleId :
 VF1212SBS02

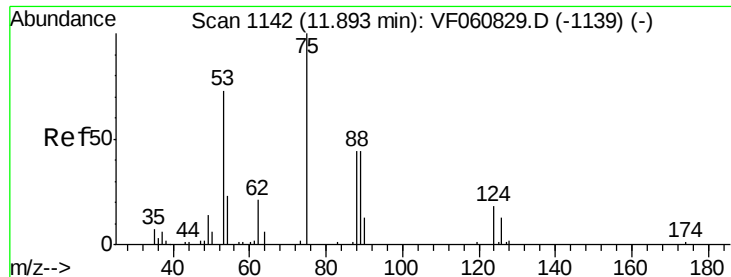
Tot Ion: 91 Resp: 172046
 Ion Ratio Lower Upper
 91 100
 126 33.3 15.9 47.6



#80
 1,3,5-Trimethylbenzene
 Concen: 22.385 ug/l
 RT: 11.83 min Scan# 1135
 Delta R.T. -0.03 min
 Lab File: VF060999.D
 Acq: 12 Dec 2018 16:49

Tgt Ion: 105 Resp: 208606
 Ion Ratio Lower Upper
 105 100
 120 51.5 25.8 77.3





#81

trans-1,4-Dichloro-2-butene

Concen: 28.486 ug/l

RT: 11.87 min Scan# 1139

Delta R.T. -0.03 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS02

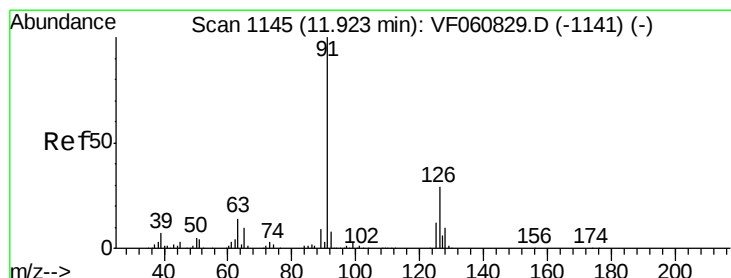
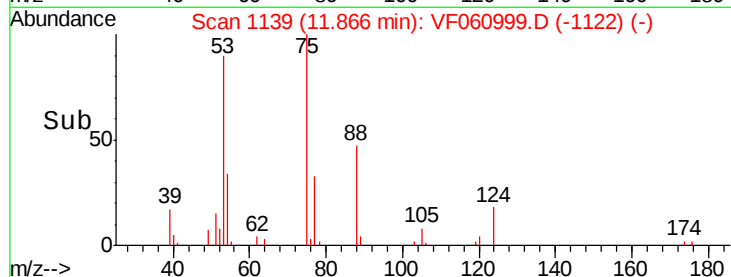
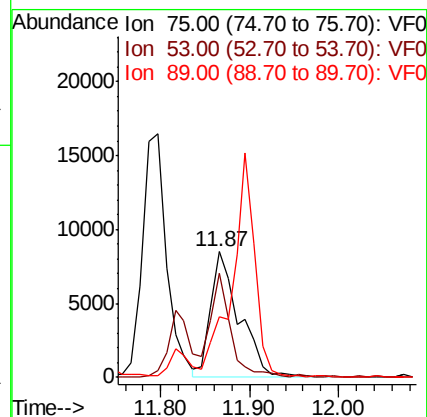
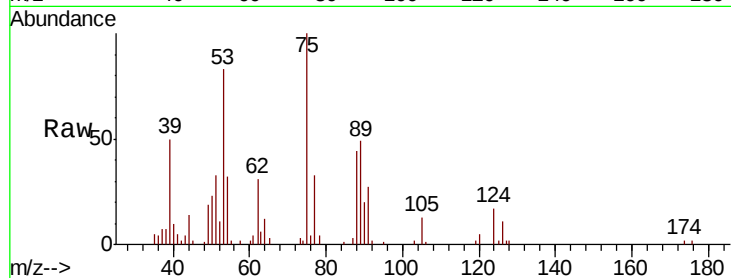
Tot Ion: 75 Resp: 19166

Ion Ratio Lower Upper

75 100

53 82.8 65.9 98.9

89 48.6 38.8 58.2



#82

4-Chlorotoluene

Concen: 22.135 ug/l

RT: 11.90 min Scan# 1142

Delta R.T. -0.03 min

Lab File: VF060999.D

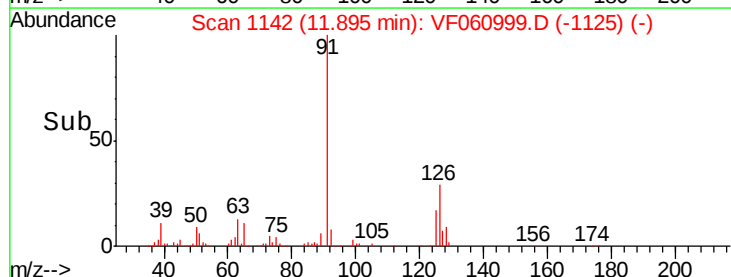
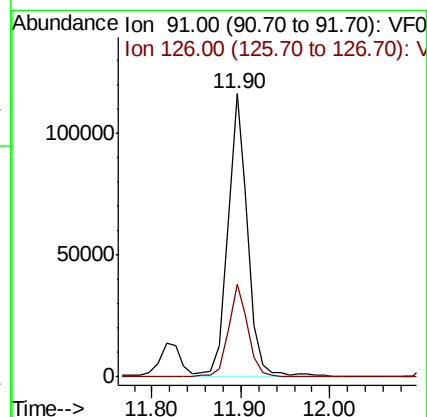
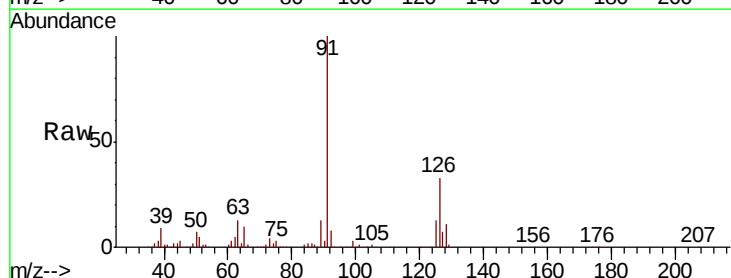
Acq: 12 Dec 2018 16:49

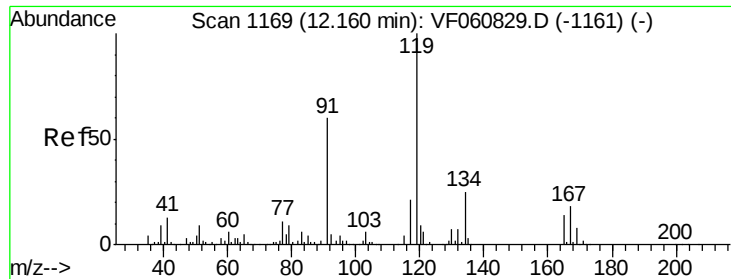
Tgt Ion: 91 Resp: 179556

Ion Ratio Lower Upper

91 100

126 32.6 14.8 44.4

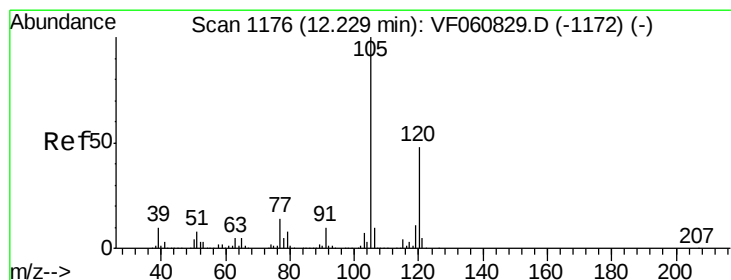
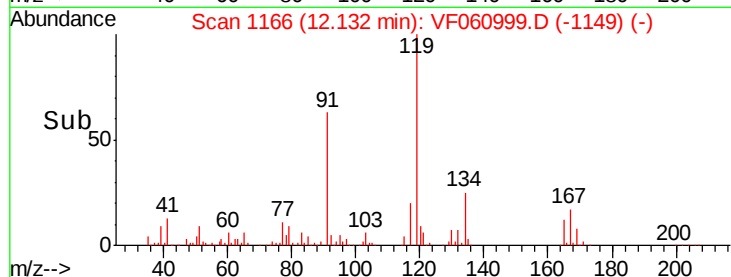
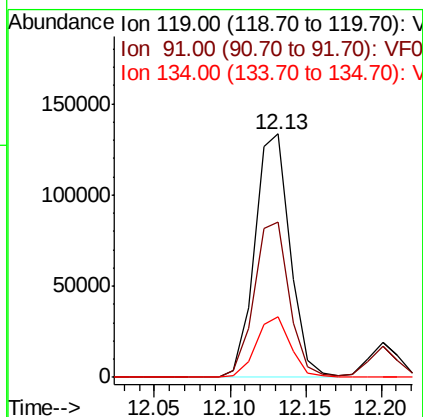
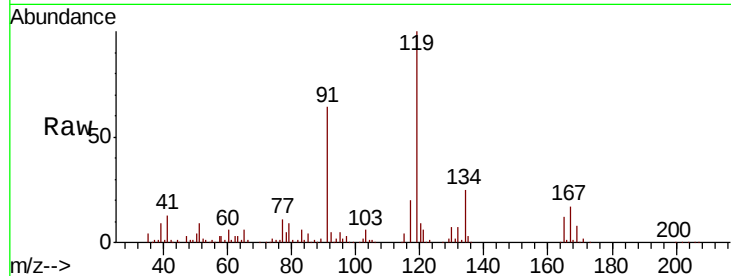




#83
tert-Butylbenzene
Concen: 23.006 ug/l
RT: 12.13 min Scan# 1166
Delta R.T. -0.03 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

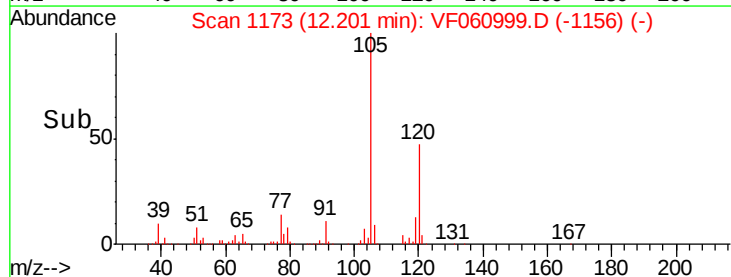
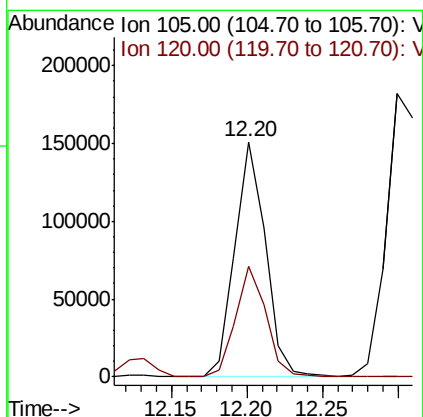
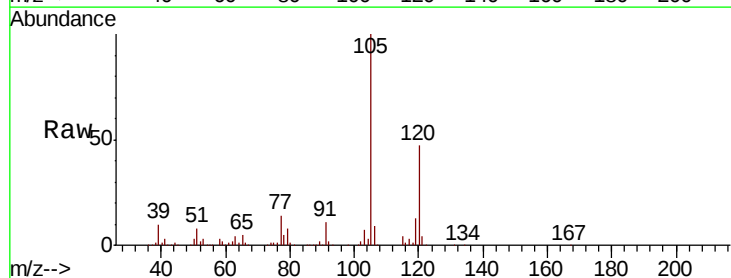
Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS02

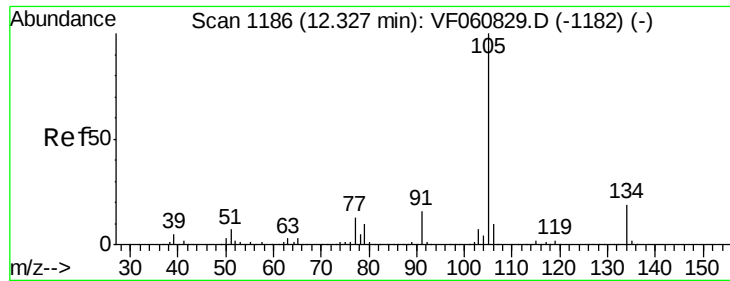
Tot Ion:119 Resp: 218390
Ion Ratio Lower Upper
119 100
91 63.8 30.1 90.3
134 25.0 12.6 37.8



#84
1,2,4-Trimethylbenzene
Concen: 22.850 ug/l
RT: 12.20 min Scan# 1173
Delta R.T. -0.03 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Tgt Ion:105 Resp: 212518
Ion Ratio Lower Upper
105 100
120 47.1 23.8 71.5





#85

sec-Butylbenzene

Concen: 22.274 ug/l

RT: 12.30 min Scan# 1183

Delta R.T. -0.03 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

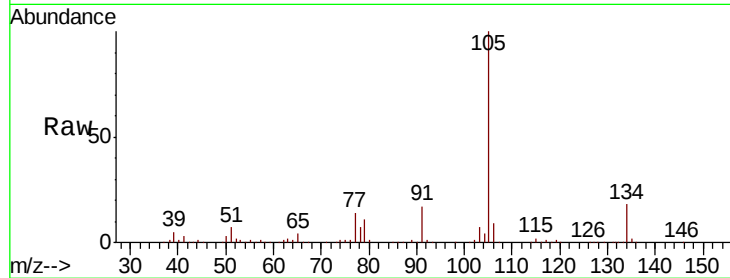
VF1212SBS02

Tot Ion:105 Resp: 289454

Ion Ratio Lower Upper

105 100

134 17.6 9.5 28.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

200000

150000

100000

50000

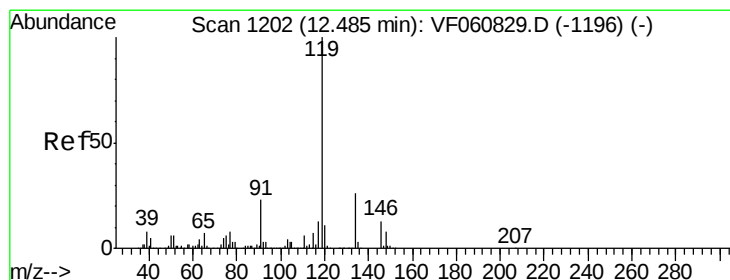
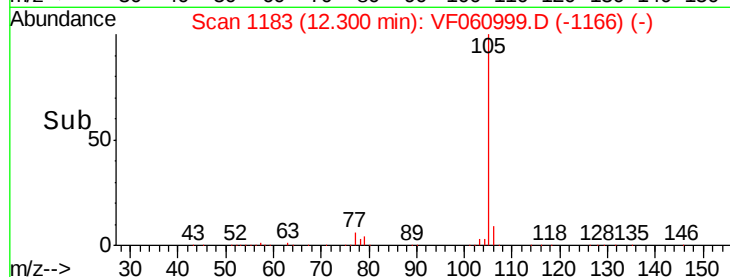
0

12.20

12.30

12.40

Time-->



#86

p-Isopropyltoluene

Concen: 23.212 ug/l

RT: 12.46 min Scan# 1199

Delta R.T. -0.03 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

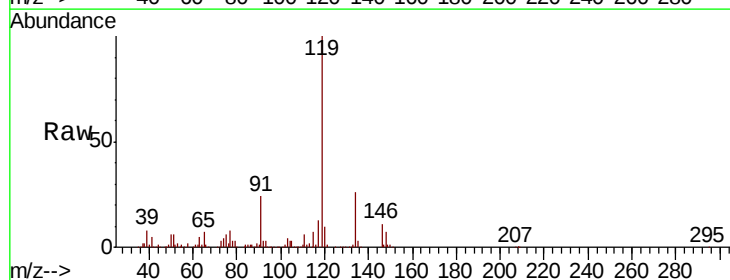
Tgt Ion:119 Resp: 252891

Ion Ratio Lower Upper

119 100

134 26.0 12.9 38.6

91 24.2 11.8 35.3



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

250000

200000

150000

100000

50000

0

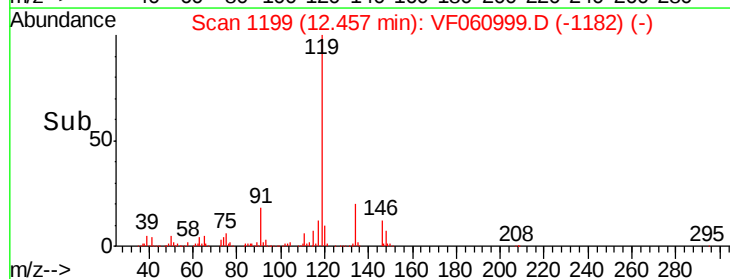
12.30

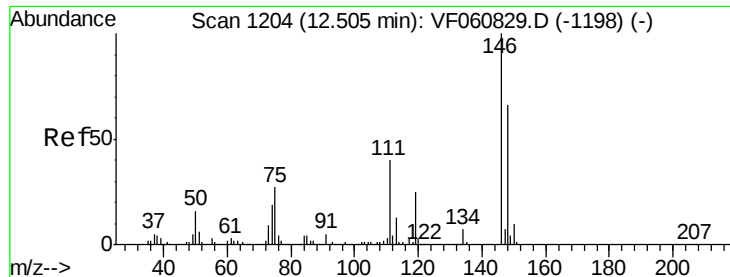
12.40

12.50

12.60

Time-->





#87

1,3-Dichlorobenzene

Concen: 23.002 ug/l

RT: 12.47 min Scan# 1200

Delta R.T. -0.04 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS02

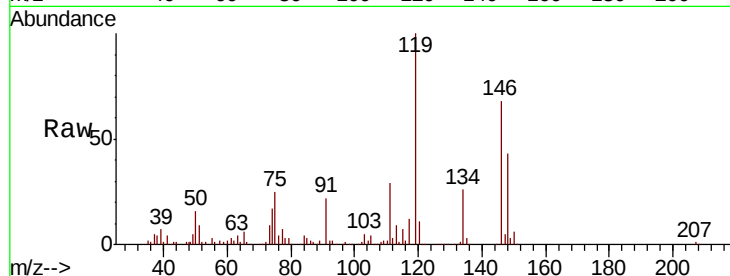
Tot Ion:146 Resp: 110113

Ion Ratio Lower Upper

146 100

111 41.7 20.0 59.9

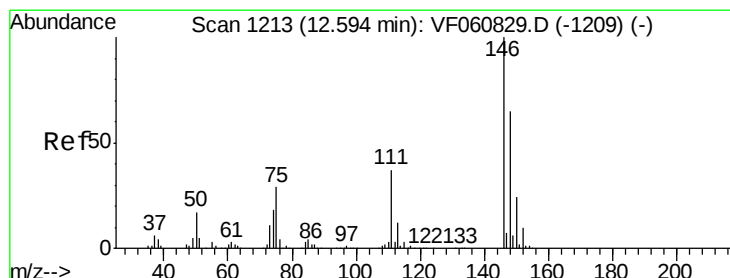
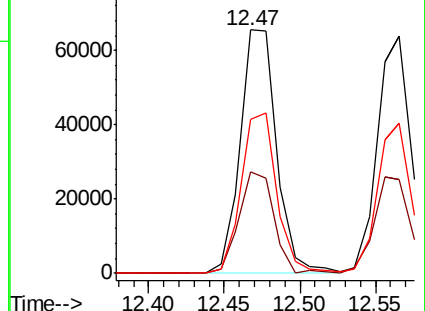
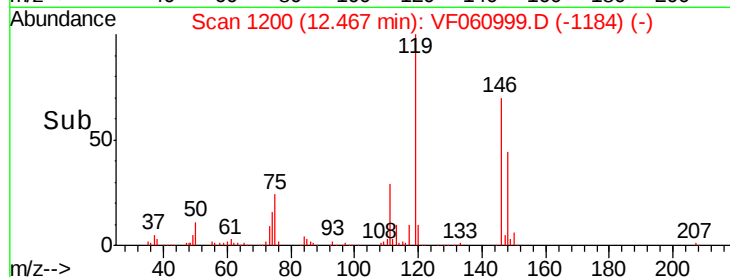
148 63.2 32.9 98.6



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: 21.978 ug/l

RT: 12.57 min Scan# 1210

Delta R.T. -0.03 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

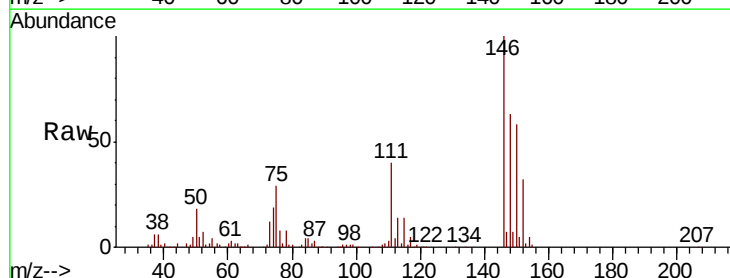
Tgt Ion:146 Resp: 102532

Ion Ratio Lower Upper

146 100

111 39.6 18.9 56.7

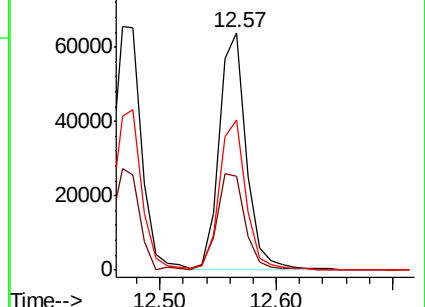
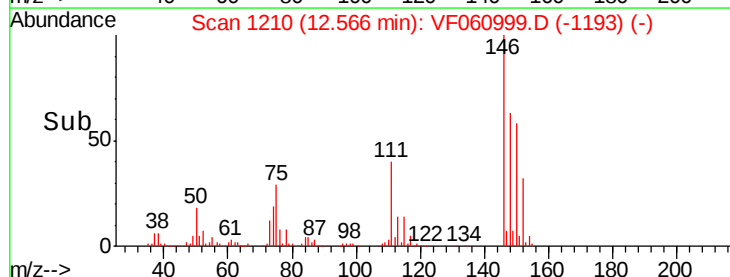
148 62.9 32.3 96.9

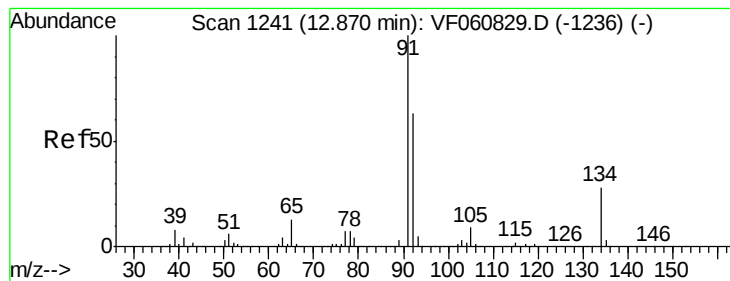


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#89

n-Butylbenzene

Concen: 23.179 ug/l

RT: 12.84 min Scan# 1238

Delta R.T. -0.03 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS02

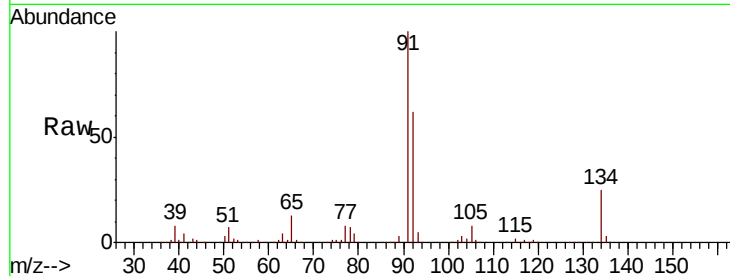
Tot Ion: 91 Resp: 255346

Ion Ratio Lower Upper

91 100

92 61.9 31.6 94.7

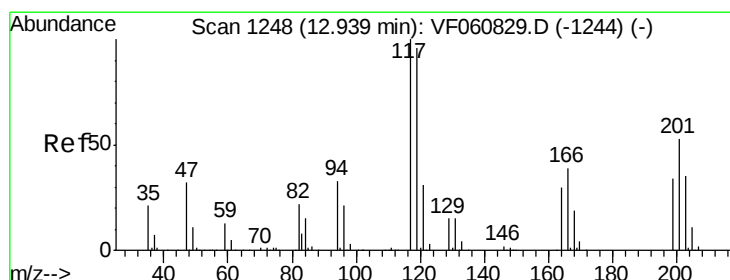
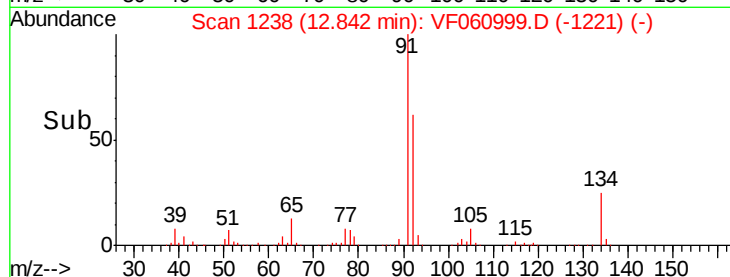
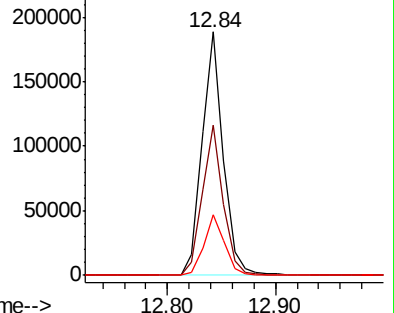
134 24.9 13.8 41.4



Abundance Ion 91.00 (90.70 to 91.70): VF060829.D (-1236) (-)

Ion 92.00 (91.70 to 92.70): VF060829.D (-1236) (-)

Ion 134.00 (133.70 to 134.70): VF060829.D (-1236) (-)



#90

Hexachloroethane

Concen: 22.238 ug/l

RT: 12.91 min Scan# 1245

Delta R.T. -0.03 min

Lab File: VF060999.D

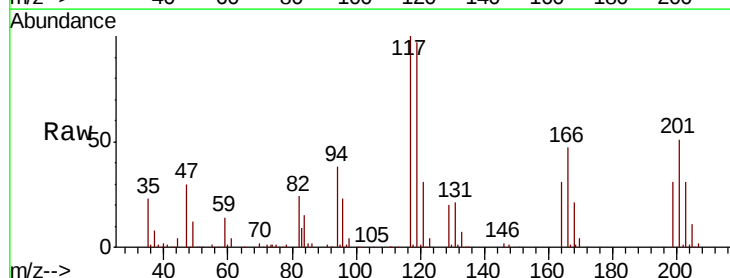
Acq: 12 Dec 2018 16:49

Tgt Ion: 117 Resp: 58341

Ion Ratio Lower Upper

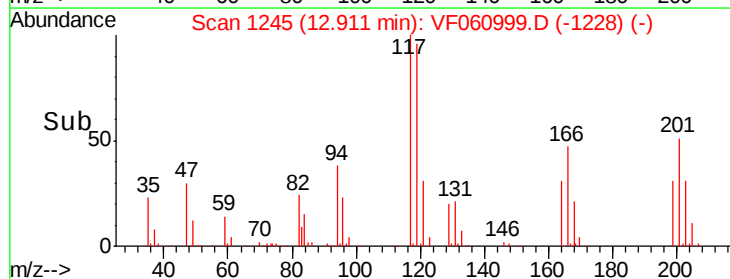
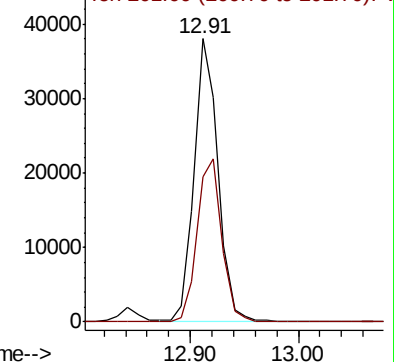
117 100

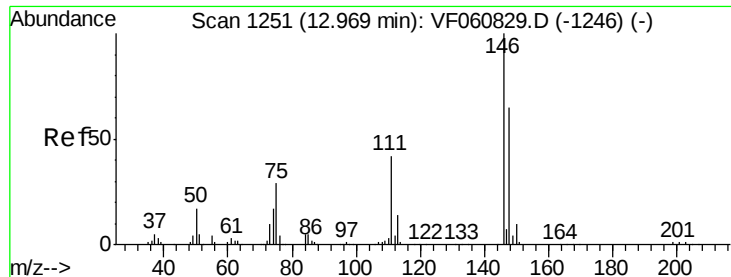
201 51.4 26.7 80.1



Abundance Ion 117.00 (116.70 to 117.70): VF060829.D (-1244) (-)

Ion 201.00 (200.70 to 201.70): VF060829.D (-1244) (-)





#91

1,2-Dichlorobenzene

Concen: 22.443 ug/l

RT: 12.94 min Scan# 1248

Delta R.T. -0.03 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS02

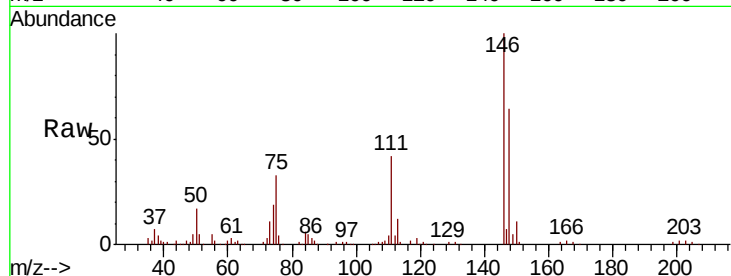
Tot Ion:146 Resp: 101743

Ion Ratio Lower Upper

146 100

111 42.1 21.2 63.6

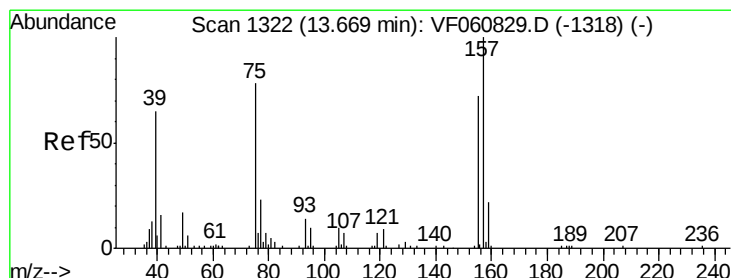
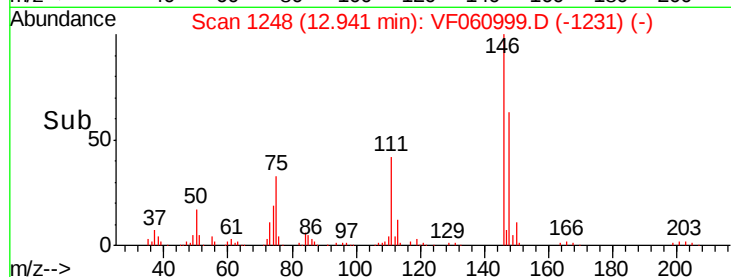
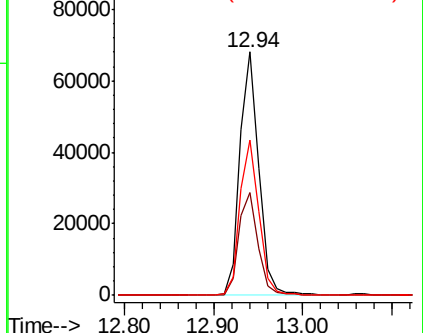
148 63.5 32.5 97.5



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: 23.805 ug/l

RT: 13.64 min Scan# 1319

Delta R.T. -0.03 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

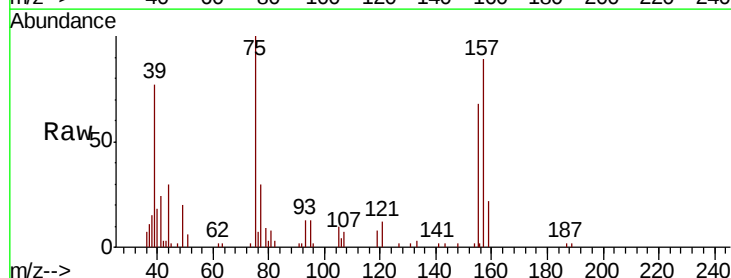
Tgt Ion: 75 Resp: 8695

Ion Ratio Lower Upper

75 100

155 68.4 45.6 136.9

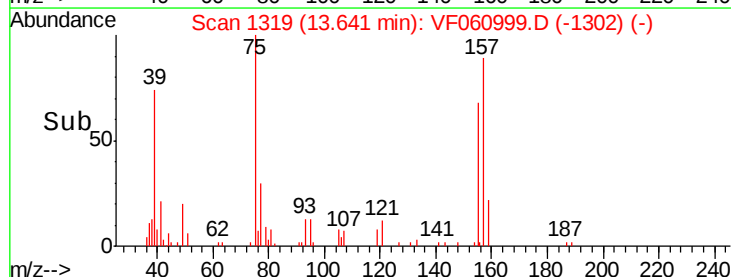
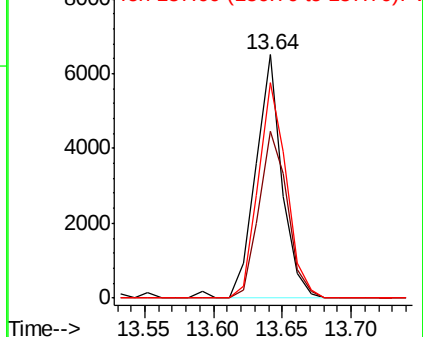
157 88.7 63.8 191.5

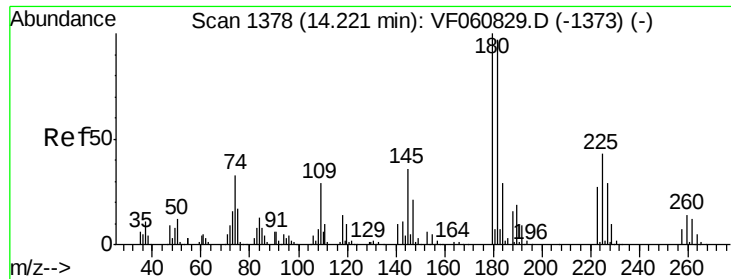


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

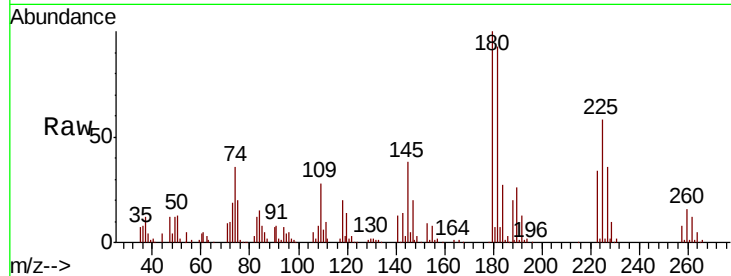




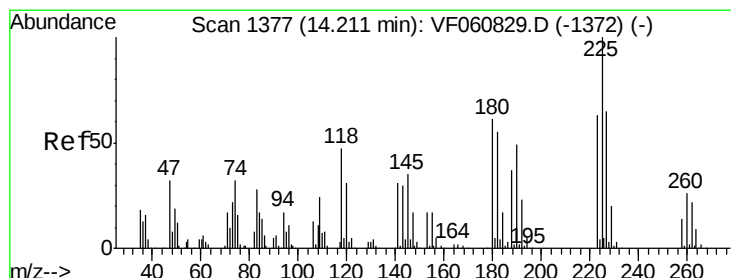
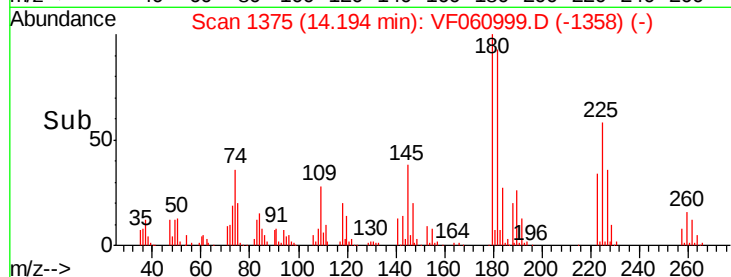
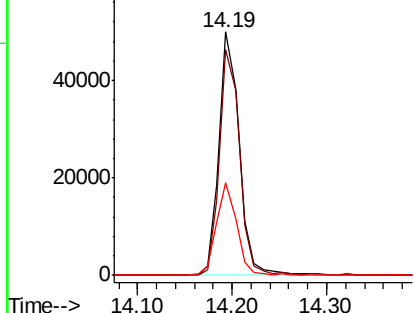
#93
 1,2,4-Trichlorobenzene
 Concen: 23.522 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.03 min
 Lab File: VF060999.D
 Acq: 12 Dec 2018 16:49

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1212SBS02

Tot Ion:180 Resp: 74508
 Ion Ratio Lower Upper
 180 100
 182 92.6 48.5 145.5
 145 37.8 18.1 54.3

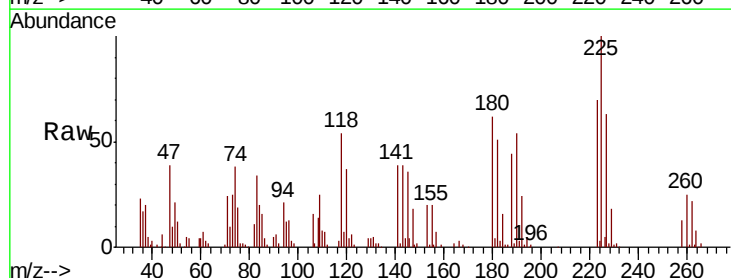


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

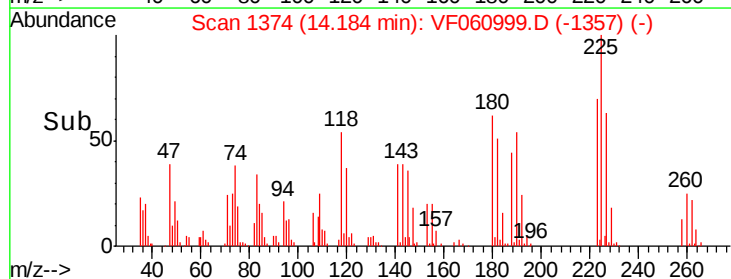
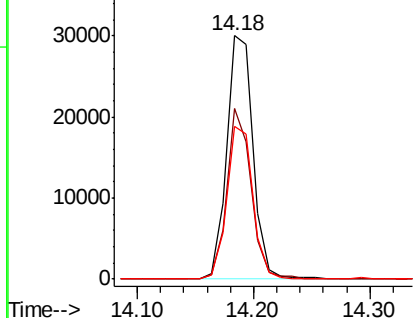


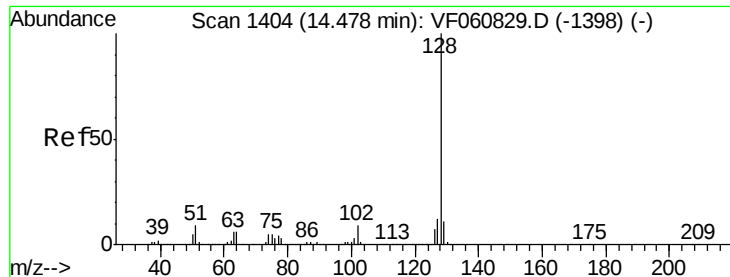
#94
 Hexachlorobutadiene
 Concen: 22.268 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.03 min
 Lab File: VF060999.D
 Acq: 12 Dec 2018 16:49

Tgt Ion:225 Resp: 47020
 Ion Ratio Lower Upper
 225 100
 223 69.9 31.4 94.3
 227 62.5 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

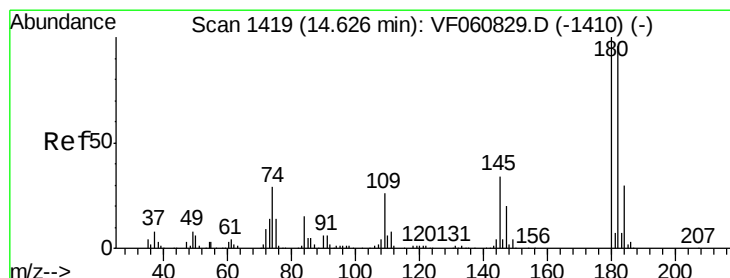
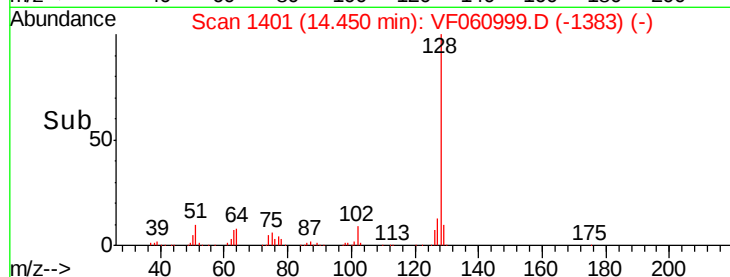
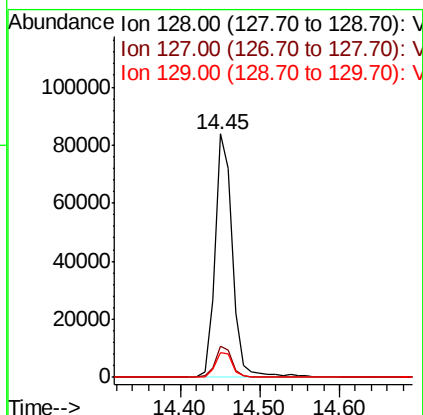
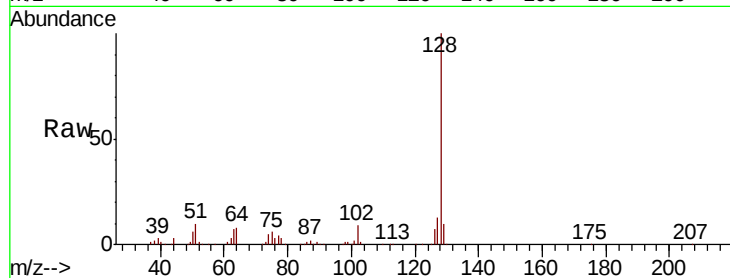




#95
Naphthalene
Concen: 18.975 ug/l
RT: 14.45 min Scan# 1401
Delta R.T. -0.03 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS02

Tot Ion:128 Resp: 130008
Ion Ratio Lower Upper
128 100
127 12.6 9.9 14.9
129 10.4 9.1 13.7



#96
1,2,3-Trichlorobenzene
Concen: 22.650 ug/l
RT: 14.60 min Scan# 1416
Delta R.T. -0.03 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Tgt Ion:180 Resp: 66618
Ion Ratio Lower Upper
180 100
182 92.6 47.9 143.8
145 36.2 17.2 51.5

