

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF021519\
 Data File : VF061655.D
 Acq On : 15 Feb 2019 14:46
 Operator : VA/AP
 Sample : VF0215SBSD01
 Misc : 5.00µg/5mL/MSVOA-F/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0215SBSD01

Quant Time: Feb 16 05:23:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.90	168	308689	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.63	114	472670	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.80	117	396388	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.57	152	234401	50.00	ug/l	0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.87	65	120613	53.28	ug/l	0.01
Spiked Amount	50.000		Recovery	=	106.56%	
35) Dibromofluoromethane	4.14	113	180794	51.51	ug/l	0.02
Spiked Amount	50.000		Recovery	=	103.02%	
50) Toluene-d8	7.58	98	535565	53.08	ug/l	0.02
Spiked Amount	50.000		Recovery	=	106.16%	
62) 4-Bromofluorobenzene	11.43	95	213018	52.17	ug/l	0.01
Spiked Amount	50.000		Recovery	=	104.34%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.96	85	83558	23.571	ug/l	100
3) Chloromethane	1.09	50	81115	21.808	ug/l	100
4) Vinyl Chloride	1.14	62	75240	21.760	ug/l	92
5) Bromomethane	1.34	94	52298	21.976	ug/l	95
6) Chloroethane	1.39	64	37192	21.826	ug/l	99
7) Trichlorofluoromethane	1.50	101	74191m	17.790	ug/l	
8) Diethyl Ether	1.65	74	18963	18.043	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	1.84	101	60073	19.967	ug/l #	86
10) Methyl Iodide	1.92	142	97285	16.928	ug/l	98
11) Tert butyl alcohol	2.58	59	11358	86.698	ug/l	100
12) 1,1-Dichloroethene	1.80	96	53415	20.193	ug/l #	89
13) Acrolein	2.02	56	15921	96.695	ug/l	88
14) Allyl chloride	2.11	41	63659	19.612	ug/l	97
15) Acrylonitrile	2.97	53	40091	86.276	ug/l	94
16) Acetone	2.26	43	45461	93.603	ug/l	98
17) Carbon Disulfide	1.84	76	169764	20.418	ug/l	98
18) Methyl Acetate	2.37	43	19496	17.819	ug/l	96
19) Methyl tert-butyl Ether	2.44	73	90982	20.126	ug/l	97
20) Methylene Chloride	2.26	84	56046m	20.024	ug/l	
21) trans-1,2-Dichloroethene	2.33	96	60663	21.097	ug/l	95
22) Diisopropyl ether	2.82	45	161356	20.709	ug/l	99
23) Vinyl Acetate	3.21	43	401983	105.629	ug/l	100
24) 1,1-Dichloroethane	2.89	63	91643	19.436	ug/l	98
25) 2-Butanone	4.36	43	109539	103.253	ug/l	99
26) 2,2-Dichloropropane	3.63	77	43101	21.580	ug/l	98
27) cis-1,2-Dichloroethene	3.50	96	78687	20.848	ug/l	97
28) Bromochloromethane	3.74	49	45397	20.066	ug/l	90
29) Tetrahydrofuran	4.11	42	48125	99.808	ug/l	97
30) Chloroform	3.88	83	114521	21.357	ug/l	97
31) Cyclohexane	3.72	56	108272	21.212	ug/l	95
32) 1,1,1-Trichloroethane	4.12	97	73277	20.861	ug/l	95
36) 1,1-Dichloropropene	4.31	75	93566	19.983	ug/l	94
37) Ethyl Acetate	4.14	43	40369	18.562	ug/l #	84
38) Carbon Tetrachloride	4.01	117	66147	20.459	ug/l	92

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 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.48	83	115652	20.885	ug/l	95
40) Benzene	4.66	78	251325	20.520	ug/l	99
41) Methacrylonitrile	4.77	41	19244	17.302	ug/l	91
42) 1,2-Dichloroethane	4.97	62	54255	18.519	ug/l	99
43) Isopropyl Acetate	6.99	43	47775	18.558	ug/l	98
44) Trichloroethene	5.53	130	82341	20.790	ug/l	96
45) 1,2-Dichloropropane	6.26	63	62065	20.965	ug/l	99
46) Dibromomethane	6.11	93	35813	19.648	ug/l	97
47) Bromodichloromethane	6.41	83	80809	20.245	ug/l	98
48) Methyl methacrylate	6.74	41	30584	19.742	ug/l	95
49) 1,4-Dioxane	6.72	88	5209	357.679	ug/l	93
51) 4-Methyl-2-Pentanone	8.28	43	174601	94.920	ug/l	99
52) Toluene	7.65	92	157897	21.257	ug/l	97
53) t-1,3-Dichloropropene	8.30	75	68083	20.494	ug/l	95
54) cis-1,3-Dichloropropene	7.32	75	89176	20.153	ug/l	95
55) 1,1,2-Trichloroethane	8.52	97	42551	19.497	ug/l	95
56) Ethyl methacrylate	8.65	69	47736	19.646	ug/l	99
57) 1,3-Dichloropropane	8.87	76	69080	18.964	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.32	63	36556	87.199	ug/l	92
59) 2-Hexanone	9.51	43	128596	99.733	ug/l	99
60) Dibromochloromethane	8.74	129	61218	20.153	ug/l	96
61) 1,2-Dibromoethane	9.01	107	47095	19.896	ug/l	95
64) Tetrachloroethene	8.18	164	69787	21.539	ug/l	98
65) Chlorobenzene	9.82	112	165401	20.563	ug/l	97
66) 1,1,1,2-Tetrachloroethane	9.96	131	64778	20.552	ug/l	97
67) Ethyl Benzene	9.93	91	294077	21.985	ug/l	99
68) m/p-Xylenes	10.15	106	226166	44.179	ug/l	97
69) o-Xylene	10.74	106	123334	22.578	ug/l	98
70) Styrene	10.81	104	168085	21.751	ug/l	99
71) Bromoform	10.80	173	34862	20.369	ug/l	97
73) Isopropylbenzene	11.14	105	335190	20.085	ug/l	99
74) N-amyl acetate	11.39	43	77387	19.319	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.71	83	56773	18.988	ug/l	98
76) 1,2,3-Trichloropropane	11.81	75	37172	18.286	ug/l	95
77) Bromobenzene	11.52	156	84821	20.573	ug/l	96
78) n-propylbenzene	11.61	91	393270	20.535	ug/l	99
79) 2-Chlorotoluene	11.73	91	218886	20.408	ug/l	95
80) 1,3,5-Trimethylbenzene	11.84	105	273238	20.485	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.88	75	15442m	15.845	ug/l	
82) 4-Chlorotoluene	11.92	91	220766	19.831	ug/l	99
83) tert-Butylbenzene	12.15	119	297603	20.144	ug/l	98
84) 1,2,4-Trimethylbenzene	12.22	105	264822	19.984	ug/l	96
85) sec-Butylbenzene	12.32	105	383721	20.085	ug/l	98
86) p-Isopropyltoluene	12.47	119	334174	20.842	ug/l	98
87) 1,3-Dichlorobenzene	12.49	146	160731	19.997	ug/l	99
88) 1,4-Dichlorobenzene	12.58	146	158571	20.514	ug/l	97
89) n-Butylbenzene	12.86	91	325807	21.519	ug/l	99
90) Hexachloroethane	12.94	117	73656	19.752	ug/l	90
91) 1,2-Dichlorobenzene	12.96	146	148830	19.467	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.66	75	8139	17.170	ug/l	93

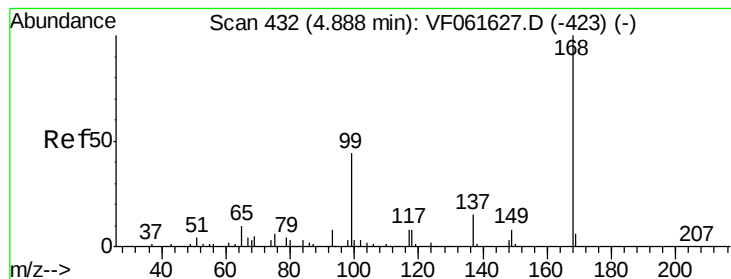
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF021519\
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Quant Title : SW846 8260
QLast Update : Thu Feb 14 03:27:56 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.22	180	111699	20.384	ug/l	96
94) Hexachlorobutadiene	14.21	225	69929	20.663	ug/l	96
95) Naphthalene	14.47	128	168407	17.565	ug/l	100
96) 1,2,3-Trichlorobenzene	14.62	180	95149	18.918	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.90 min Scan# 433

Delta R.T. 0.01 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

Instrument :

MSVOA_F

ClientSampleId :

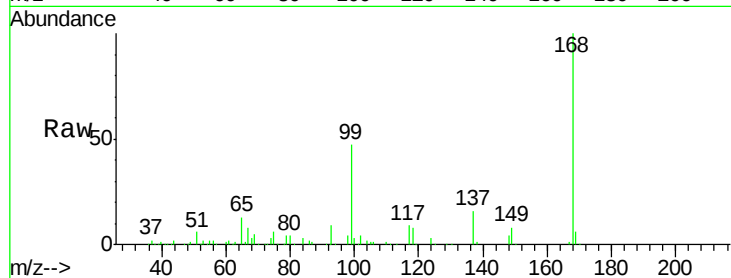
VF0215SBSD01

Tot Ion:168 Resp: 308689

Ion Ratio Lower Upper

168 100

99 47.4 34.9 52.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

120000

100000

80000

60000

40000

20000

0

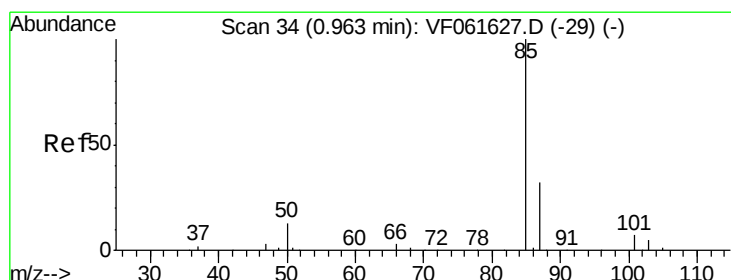
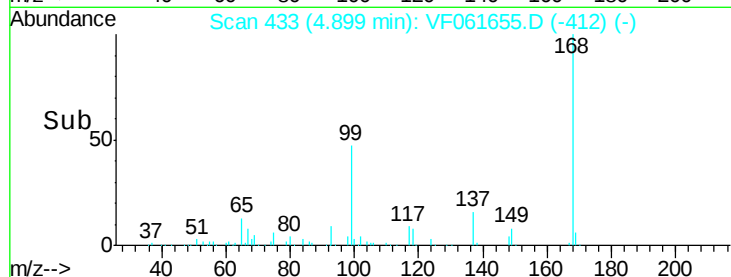
4.80

4.90

5.00

5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 23.571 ug/l

RT: 0.96 min Scan# 34

Delta R.T. 0.00 min

Lab File: VF061655.D

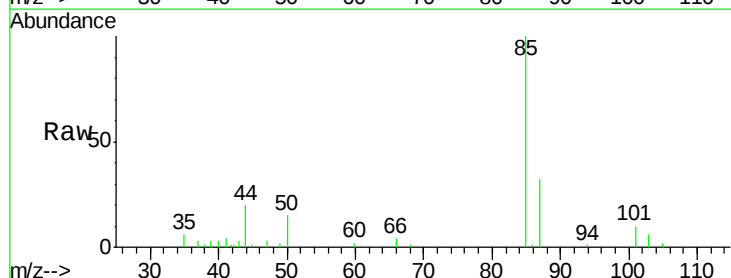
Acq: 15 Feb 2019 14:46

Tgt Ion: 85 Resp: 83558

Ion Ratio Lower Upper

85 100

87 31.8 16.1 48.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

25000

20000

15000

10000

5000

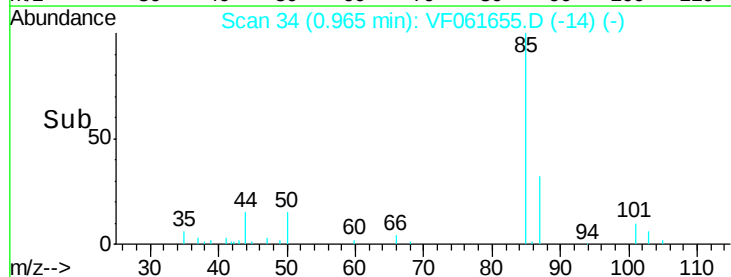
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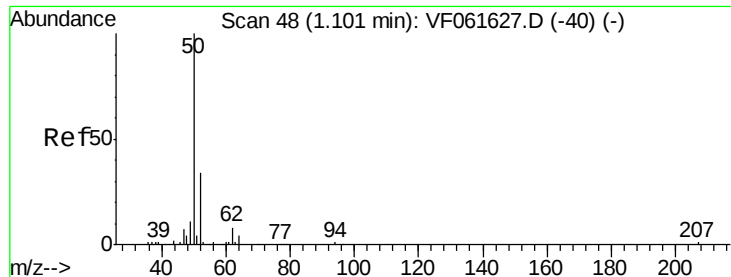
0.90

1.00

1.10

Time-->





#3

Chloromethane

Concen: 21.808 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.01 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

Instrument :

MSVOA_F

ClientSampleId :

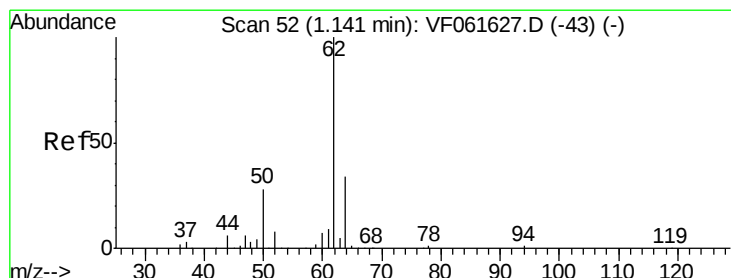
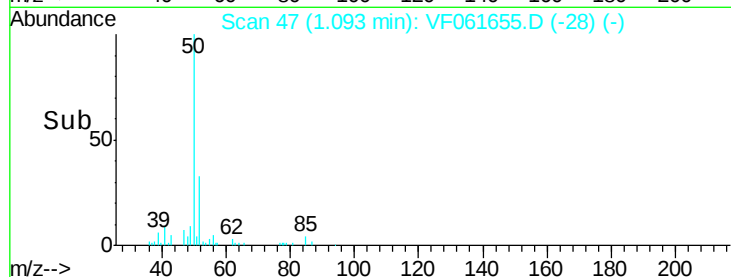
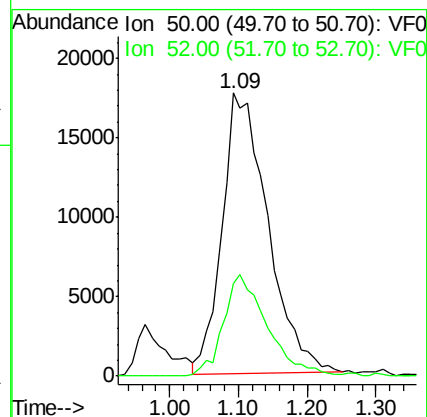
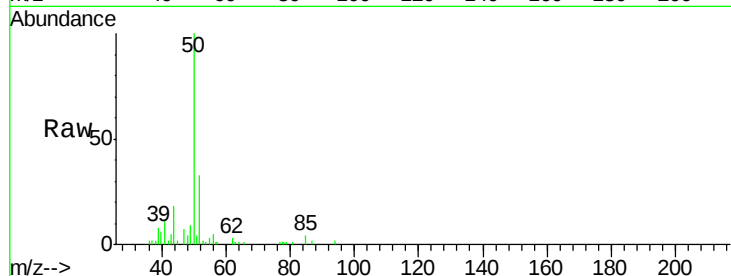
VF0215SBSD01

Tot Ion: 50 Resp: 81115

Ion Ratio Lower Upper

50 100

52 32.5 26.2 39.4



#4

Vinyl Chloride

Concen: 21.760 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.00 min

Lab File: VF061655.D

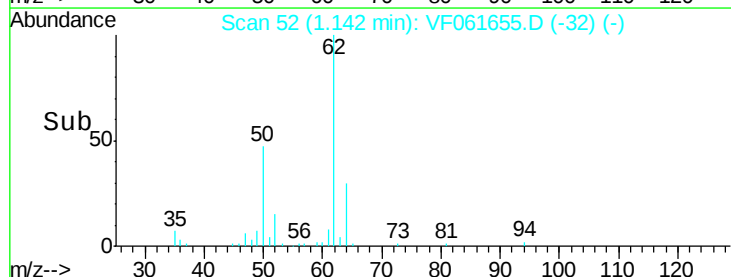
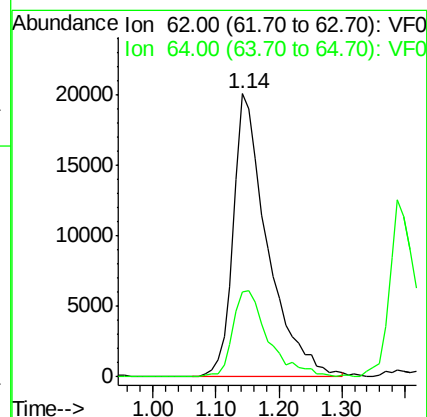
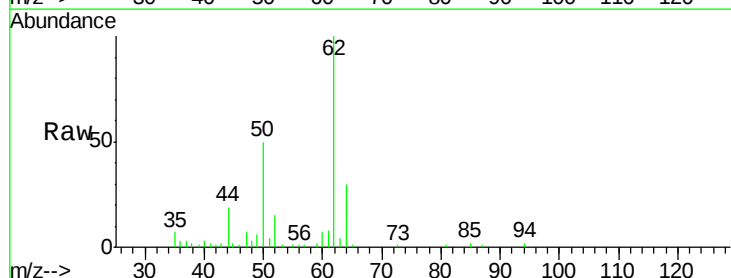
Acq: 15 Feb 2019 14:46

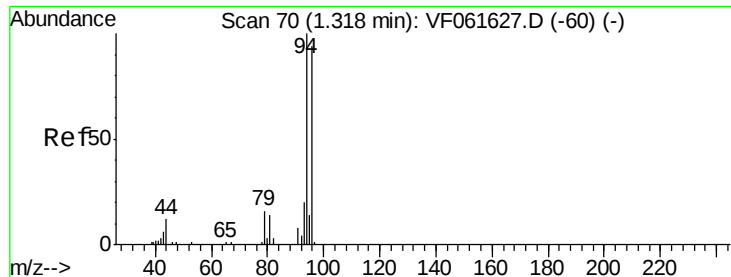
Tgt Ion: 62 Resp: 75240

Ion Ratio Lower Upper

62 100

64 29.8 27.5 41.3





#5

Bromomethane

Concen: 21.976 ug/l

RT: 1.34 min Scan# 72

Delta R.T. 0.02 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

Instrument :

MSVOA_F

ClientSampleId :

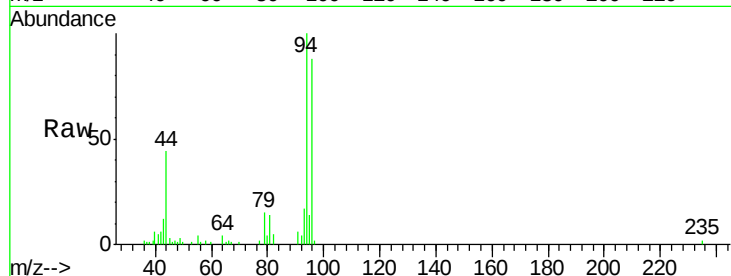
VF0215SBS01

Tot Ion: 94 Resp: 52298

Ion Ratio Lower Upper

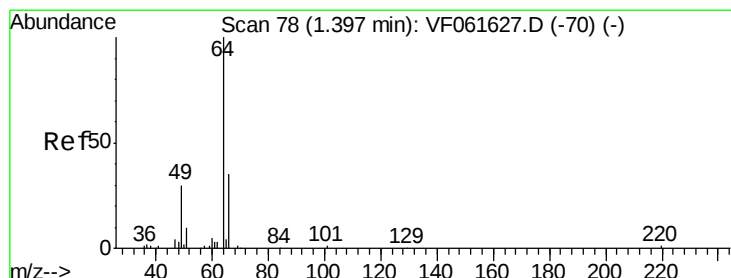
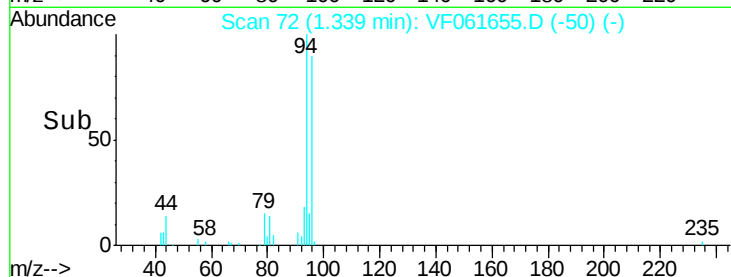
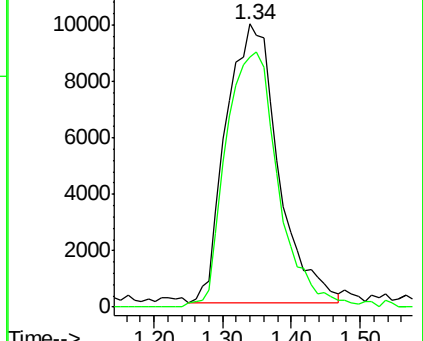
94 100

96 88.2 74.6 112.0



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 21.826 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.01 min

Lab File: VF061655.D

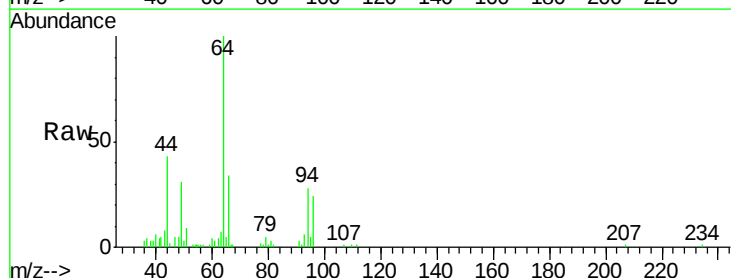
Acq: 15 Feb 2019 14:46

Tgt Ion: 64 Resp: 37192

Ion Ratio Lower Upper

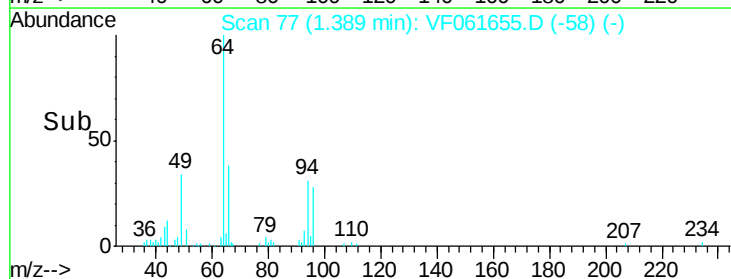
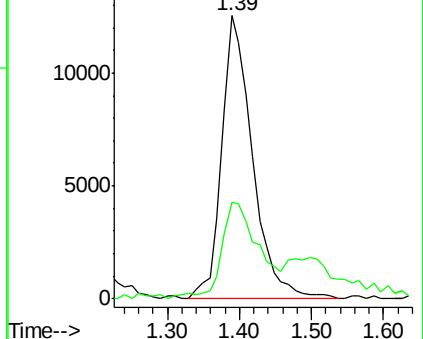
64 100

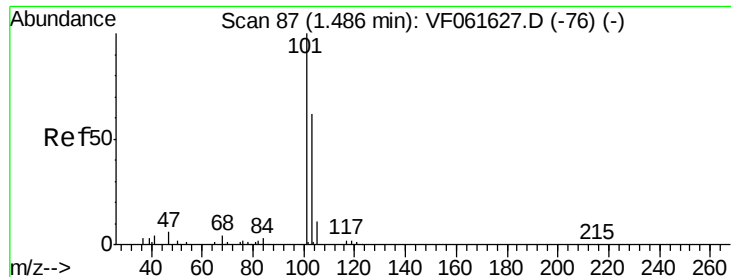
66 34.2 27.9 41.9



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0



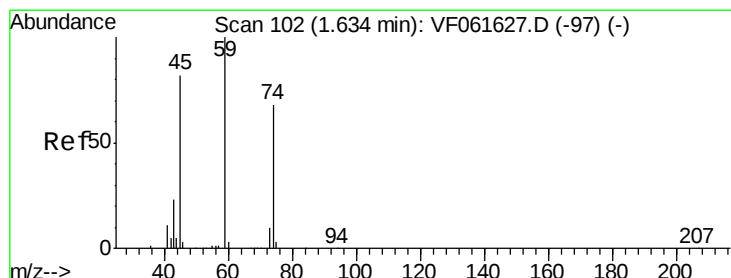
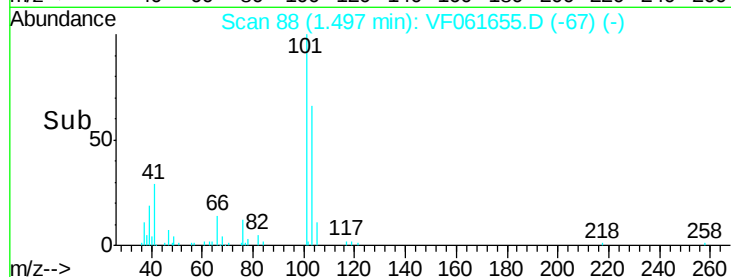
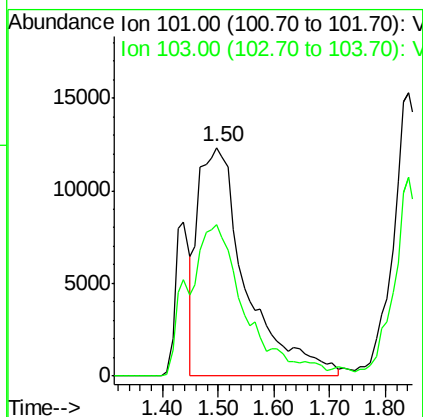
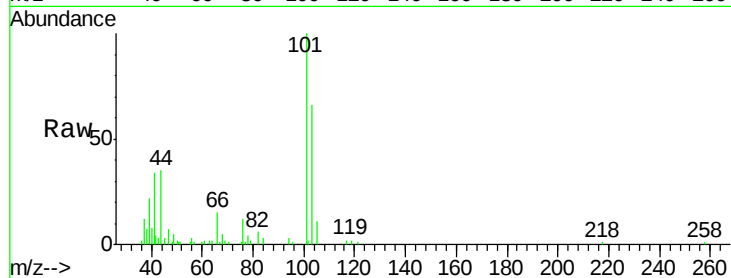


#7

Trichlorofluoromethane
 Concen: 17.790 ug/l m
 RT: 1.50 min Scan# 88
 Delta R.T. 0.01 min
 Lab File: VF061655.D
 Acq: 15 Feb 2019 14:46

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0215SBSD01

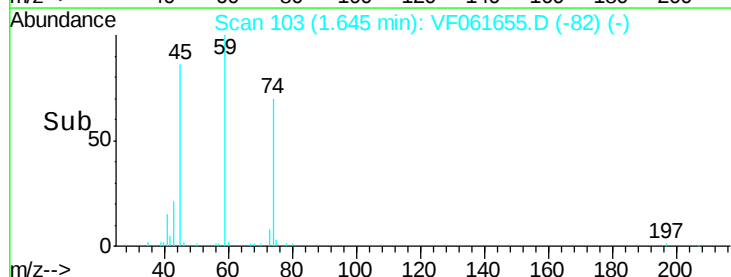
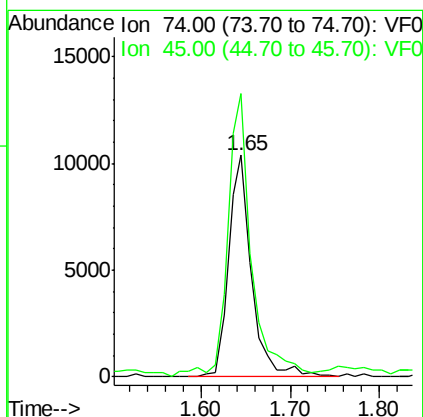
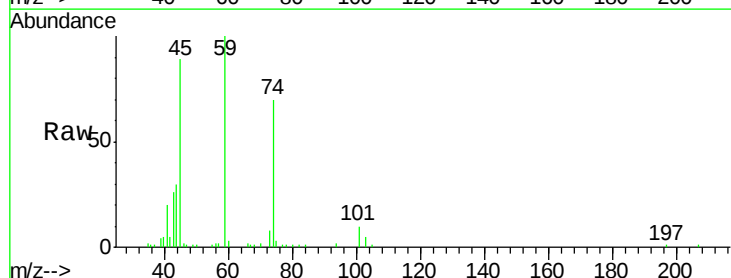
Tot Ion:101 Resp: 74191
 Ion Ratio Lower Upper
 101 100
 103 66.3 49.3 73.9

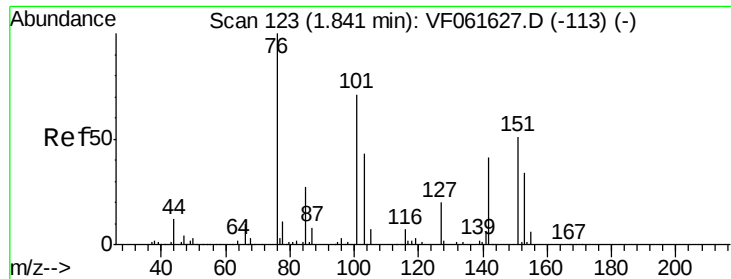


#8

Diethyl Ether
 Concen: 18.043 ug/l
 RT: 1.65 min Scan# 103
 Delta R.T. 0.01 min
 Lab File: VF061655.D
 Acq: 15 Feb 2019 14:46

Tgt Ion: 74 Resp: 18963
 Ion Ratio Lower Upper
 74 100
 45 127.9 60.8 182.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.967 ug/l

RT: 1.84 min Scan# 123

Delta R.T. 0.00 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

Instrument :

MSVOA_F

ClientSampleId :

VF0215SBS01

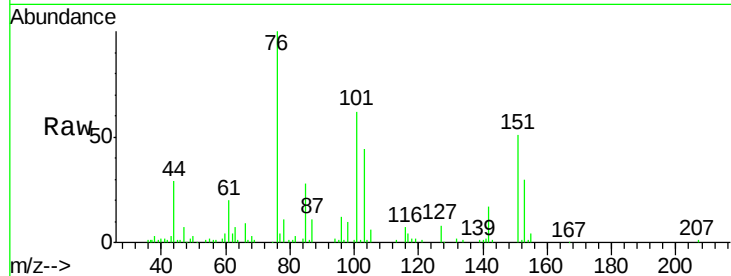
Tot Ion:101 Resp: 60073

Ion Ratio Lower Upper

101 100

85 45.0 29.8 44.6#

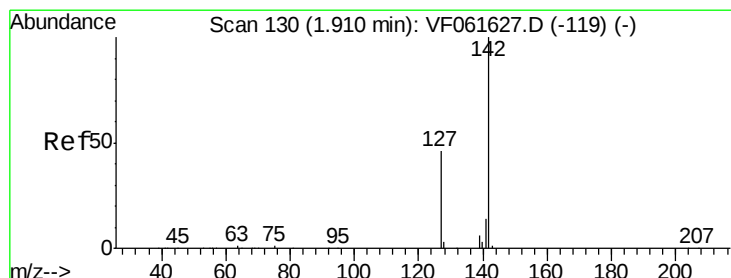
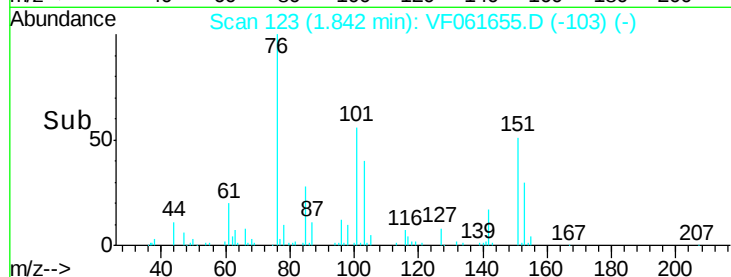
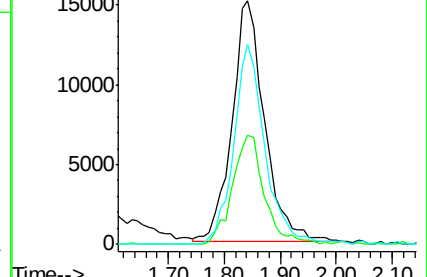
151 82.2 56.3 84.5



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: 16.928 ug/l

RT: 1.92 min Scan# 131

Delta R.T. 0.01 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

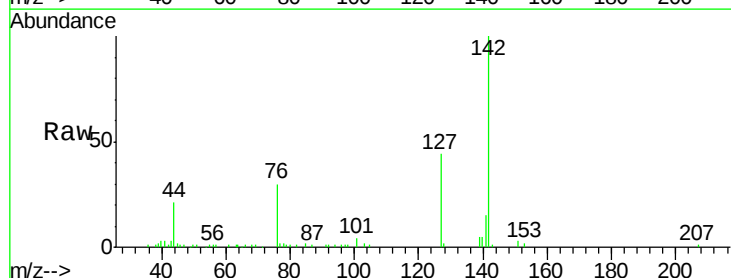
Tgt Ion:142 Resp: 97285

Ion Ratio Lower Upper

142 100

127 44.1 36.6 55.0

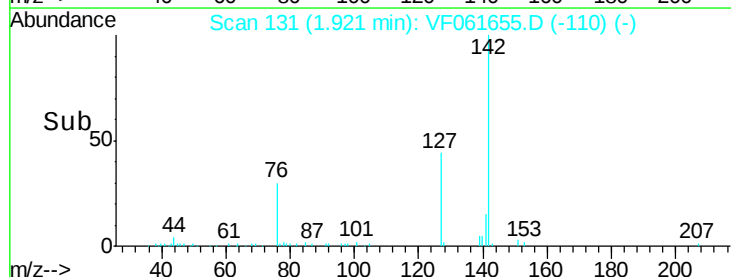
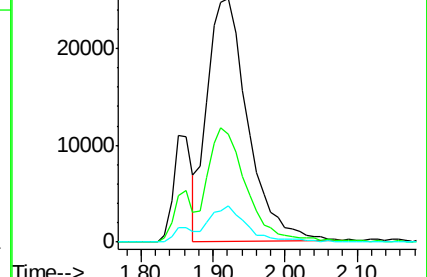
141 14.7 11.0 16.6

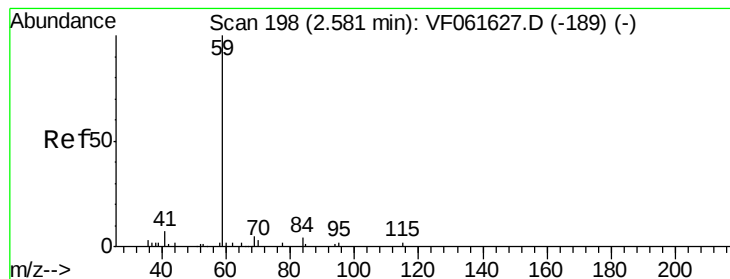


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



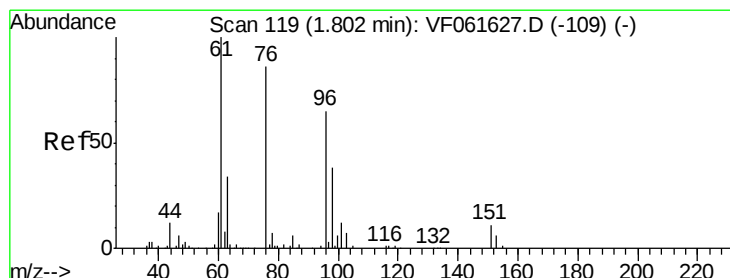
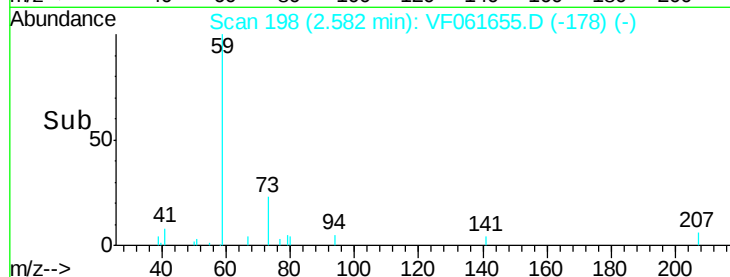
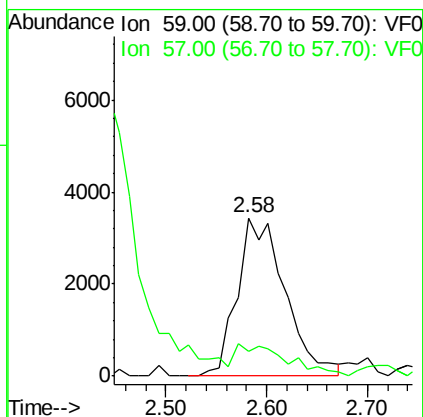
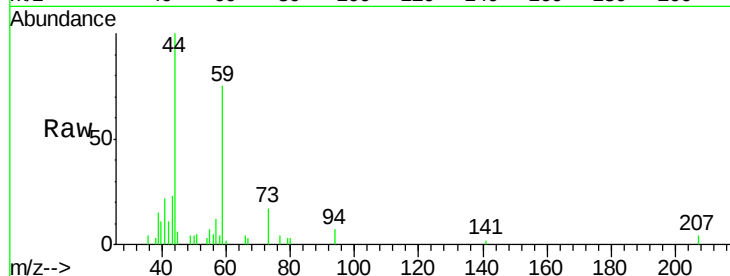


#11

Tert butyl alcohol
Concen: 86.698 ug/l
RT: 2.58 min Scan# 198
Delta R.T. 0.00 min
Lab File: VF061655.D
Acq: 15 Feb 2019 14:46

Instrument :
MSVOA_F
ClientSampleId :
VF0215SBS01

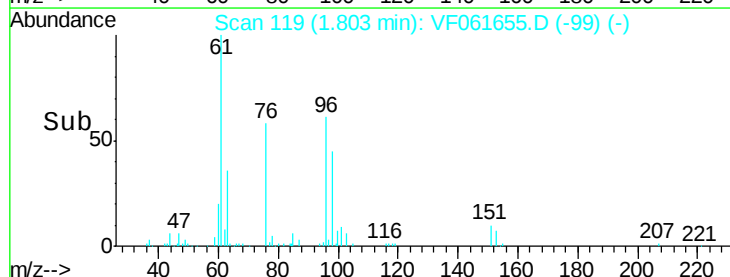
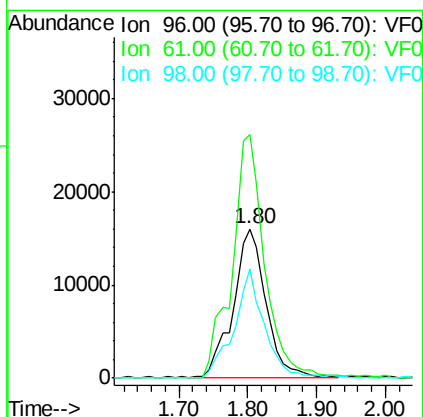
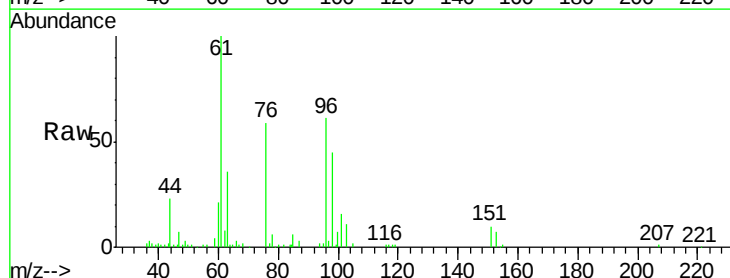
Tot Ion: 59 Resp: 11358
Ion Ratio Lower Upper
59 100
57 15.7 12.5 18.7

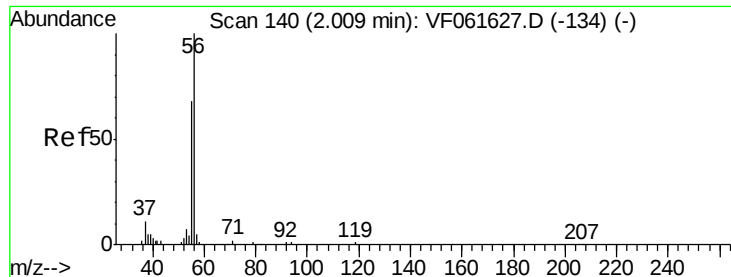


#12

1,1-Dichloroethene
Concen: 20.193 ug/l
RT: 1.80 min Scan# 119
Delta R.T. 0.00 min
Lab File: VF061655.D
Acq: 15 Feb 2019 14:46

Tgt Ion: 96 Resp: 53415
Ion Ratio Lower Upper
96 100
61 162.9 122.6 184.0
98 72.9 47.2 70.8#





#13

Acrolein

Concen: 96.695 ug/l

RT: 2.02 min Scan# 141

Delta R.T. 0.01 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

Instrument :

MSVOA_F

ClientSampleId :

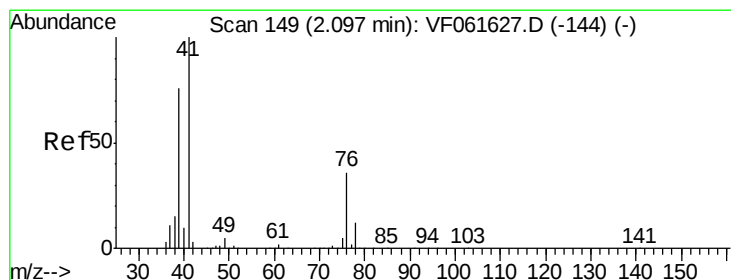
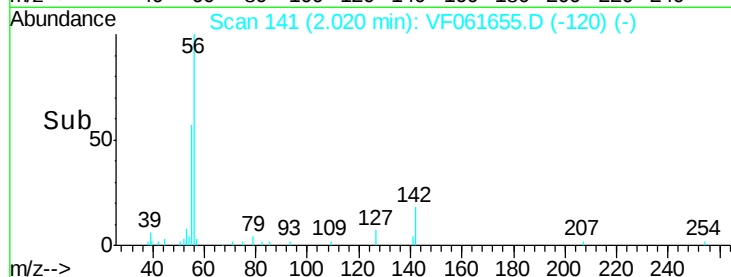
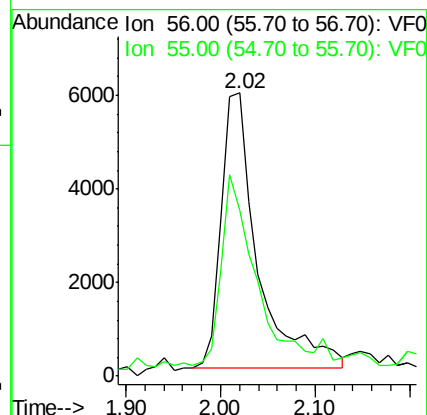
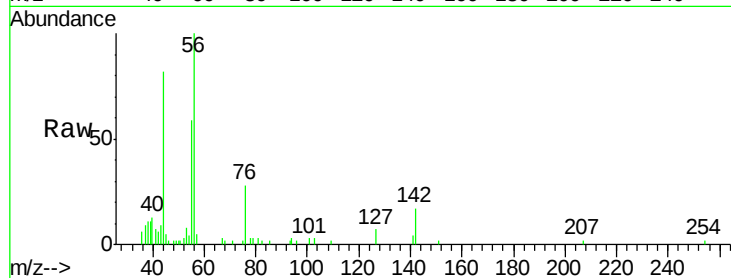
VF0215SBS01

Tot Ion: 56 Resp: 15921

Ion Ratio Lower Upper

56 100

55 58.7 55.0 82.6



#14

Allyl chloride

Concen: 19.612 ug/l

RT: 2.11 min Scan# 150

Delta R.T. 0.01 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

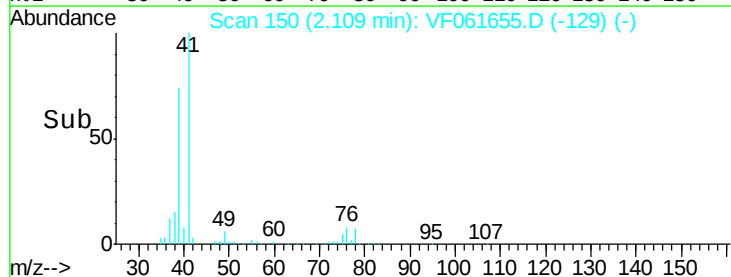
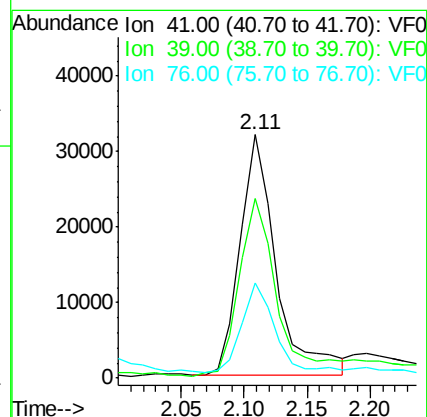
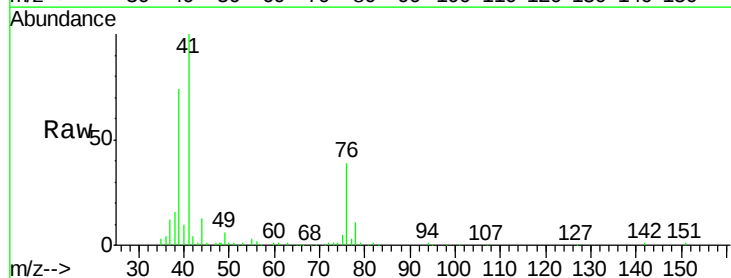
Tgt Ion: 41 Resp: 63659

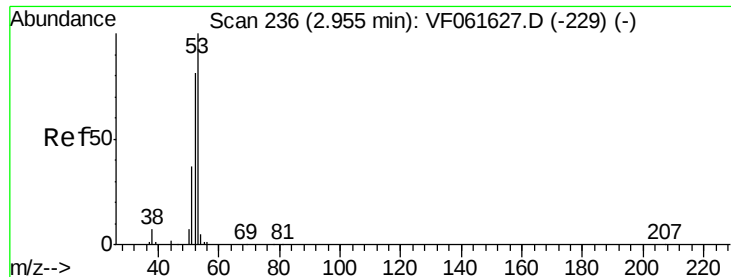
Ion Ratio Lower Upper

41 100

39 73.6 61.6 92.4

76 39.1 30.3 45.5





#15

Acrylonitrile

Concen: 86.276 ug/l

RT: 2.97 min Scan# 237

Delta R.T. 0.01 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

Instrument :

MSVOA_F

ClientSampleId :

VF0215SBS01

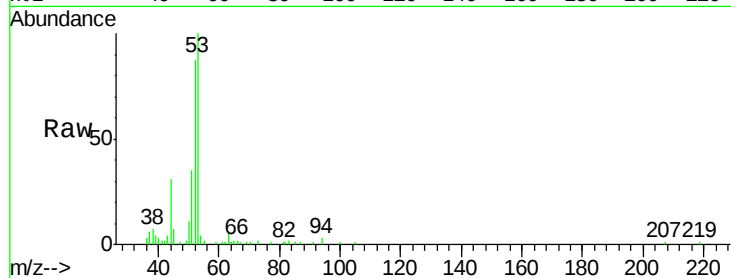
Tot Ion: 53 Resp: 40091

Ion Ratio Lower Upper

53 100

52 86.8 64.6 97.0

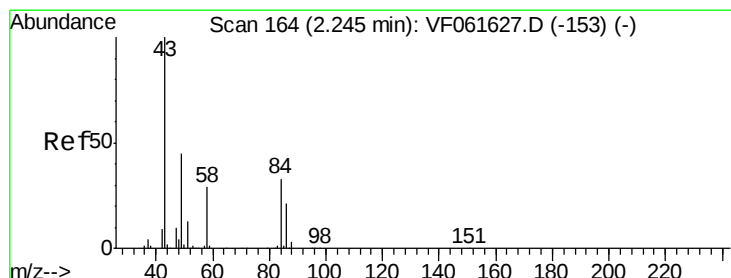
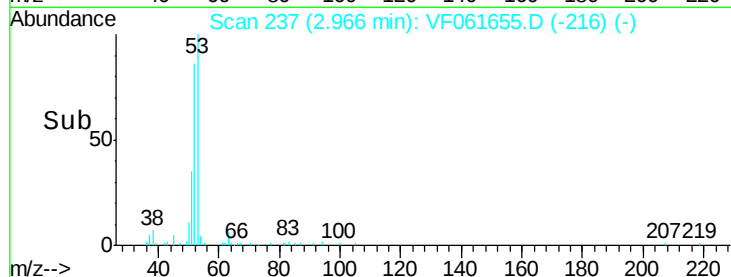
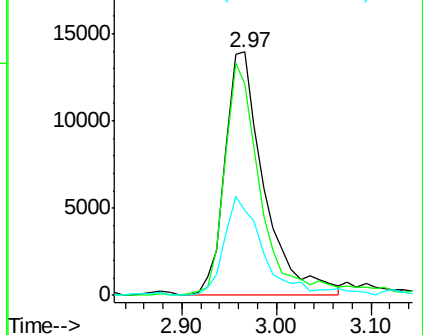
51 34.9 29.8 44.8



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: 93.603 ug/l

RT: 2.26 min Scan# 165

Delta R.T. 0.01 min

Lab File: VF061655.D

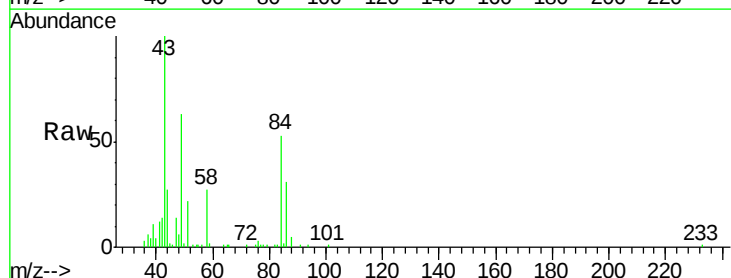
Acq: 15 Feb 2019 14:46

Tgt Ion: 43 Resp: 45461

Ion Ratio Lower Upper

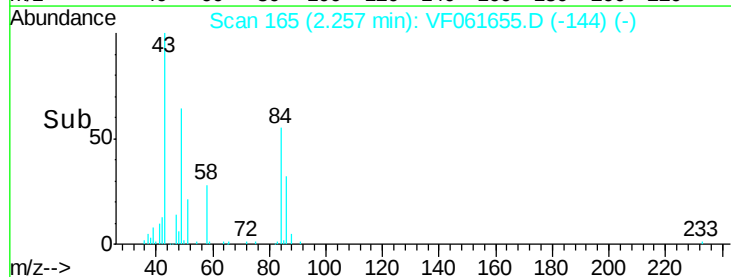
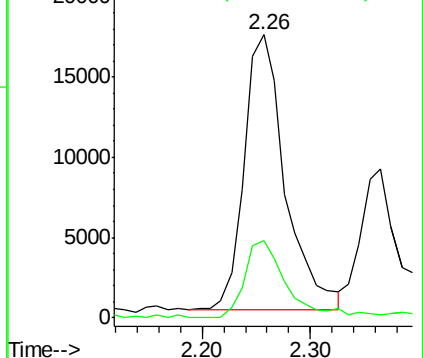
43 100

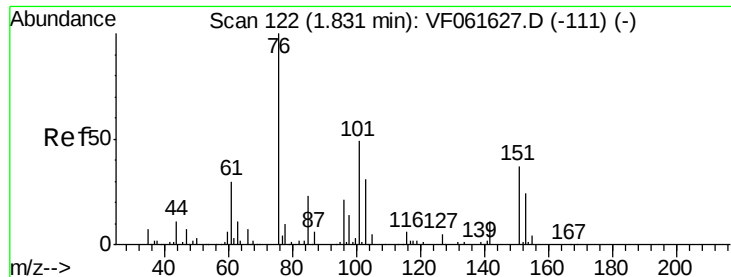
58 27.5 22.9 34.3



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#17

Carbon Disulfide

Concen: 20.418 ug/l

RT: 1.84 min Scan# 123

Delta R.T. 0.01 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

Instrument :

MSVOA_F

ClientSampleId :

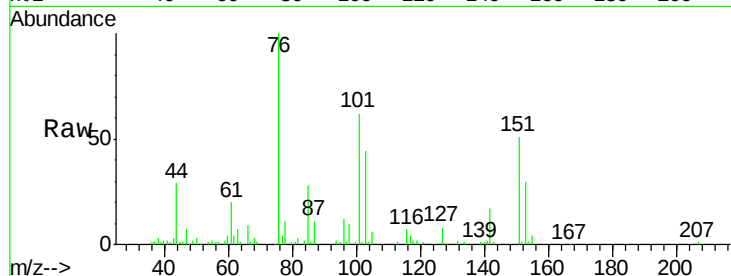
VF0215SBS01

Tot Ion: 76 Resp: 169764

Ion Ratio Lower Upper

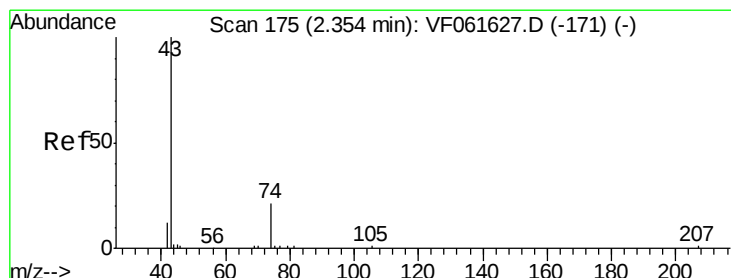
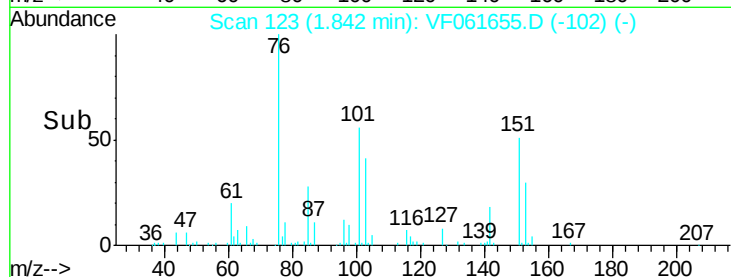
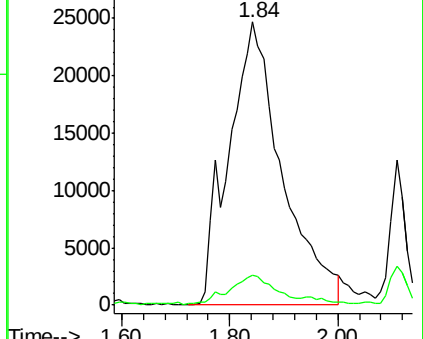
76 100

78 10.5 7.9 11.9



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#18

Methyl Acetate

Concen: 17.819 ug/l

RT: 2.37 min Scan# 176

Delta R.T. 0.01 min

Lab File: VF061655.D

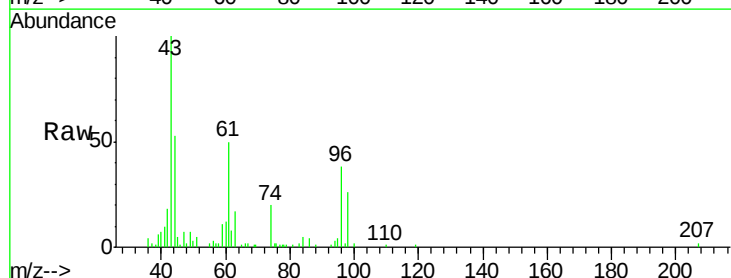
Acq: 15 Feb 2019 14:46

Tgt Ion: 43 Resp: 19496

Ion Ratio Lower Upper

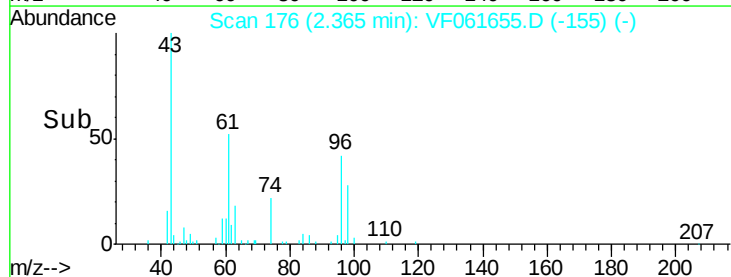
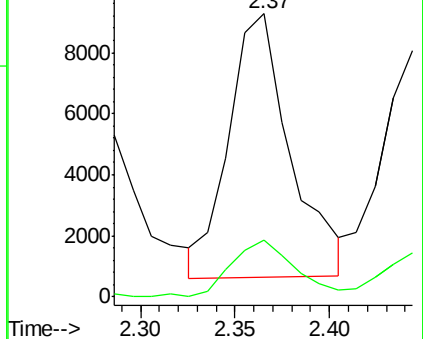
43 100

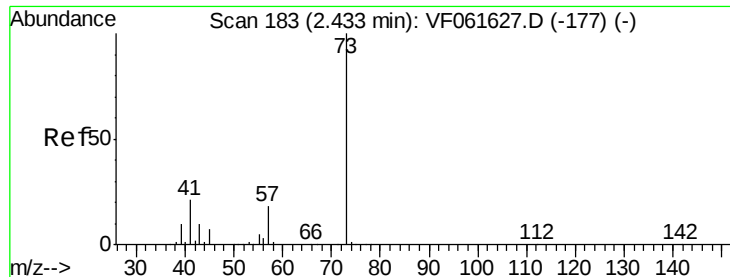
74 20.1 14.6 21.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

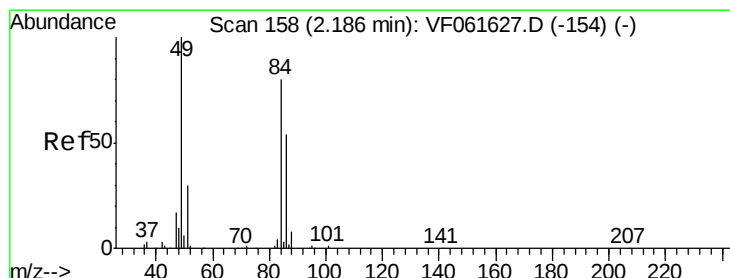
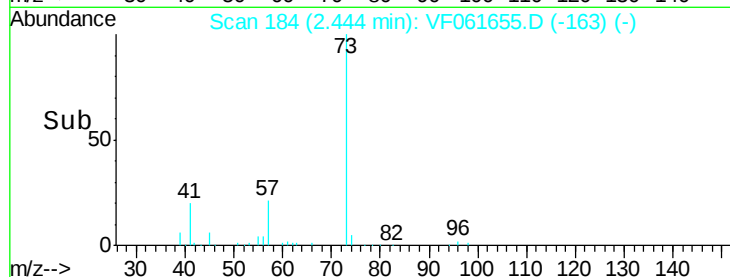
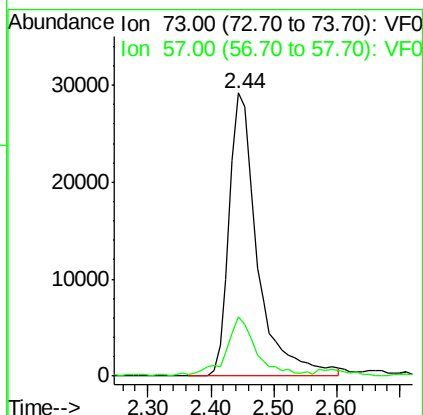
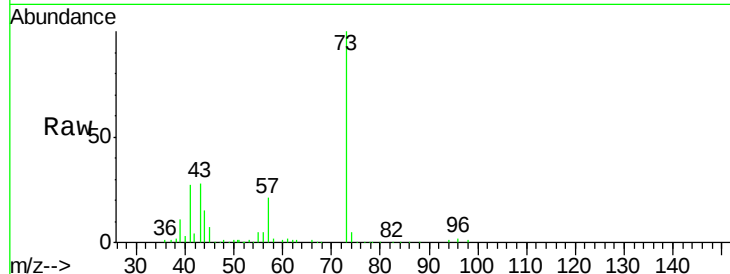




#19
Methvl tert-butvl Ether
Concen: 20.126 ug/l
RT: 2.44 min Scan# 184
Delta R.T. 0.01 min
Lab File: VF061655.D
Acq: 15 Feb 2019 14:46

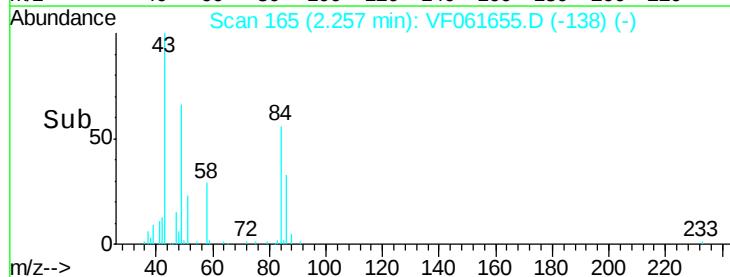
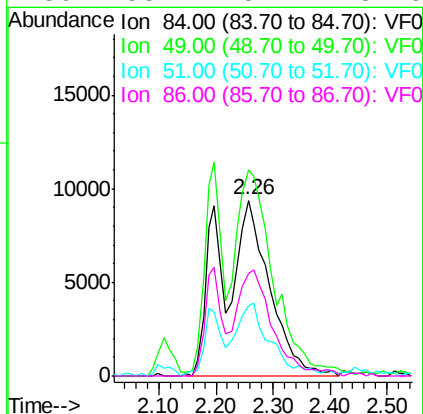
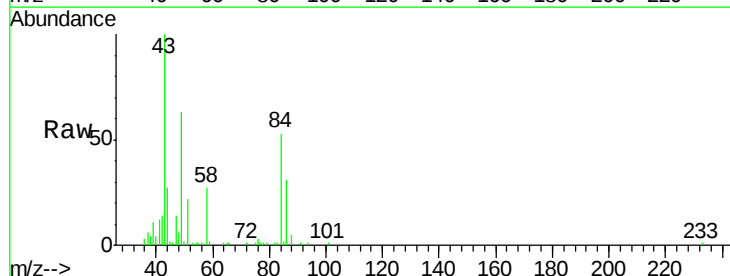
Instrument :
MSVOA_F
ClientSampleId :
VF0215SBS01

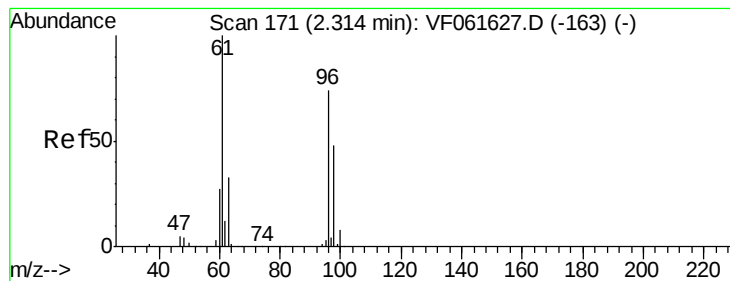
Tot Ion: 73 Resp: 90982
Ion Ratio Lower Upper
73 100
57 21.1 15.8 23.8



#20
Methylene Chloride
Concen: 20.024 ug/l m
RT: 2.26 min Scan# 165
Delta R.T. 0.07 min
Lab File: VF061655.D
Acq: 15 Feb 2019 14:46

Tgt Ion: 84 Resp: 56046
Ion Ratio Lower Upper
84 100
49 117.4 101.8 152.8
51 40.4 31.1 46.7
86 58.2 54.4 81.6





#21

trans-1,2-Dichloroethene

Concen: 21.097 ug/l

RT: 2.33 min Scan# 172

Delta R.T. 0.01 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

Instrument :

MSVOA_F

ClientSampleId :

VF0215SBSD01

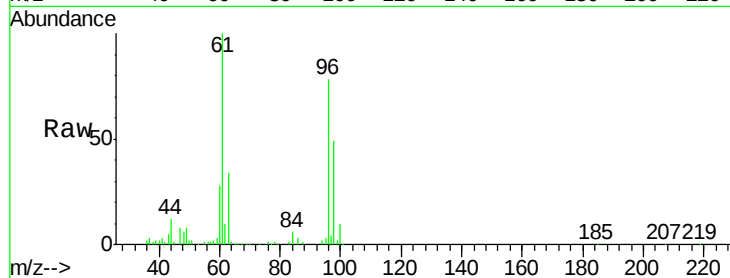
Tot Ion: 96 Resp: 60663

Ion Ratio Lower Upper

96 100

61 127.5 108.2 162.4

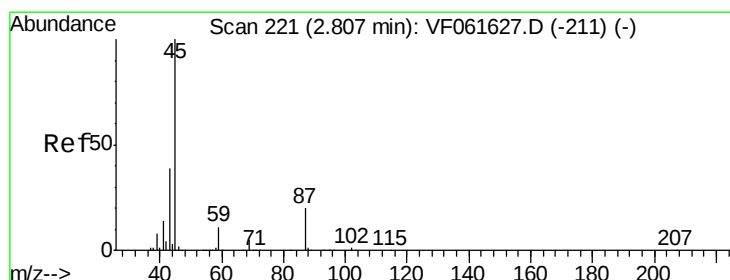
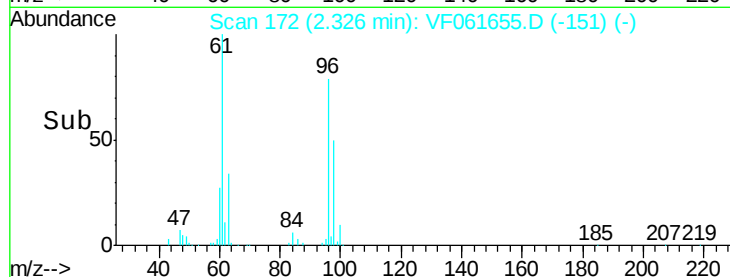
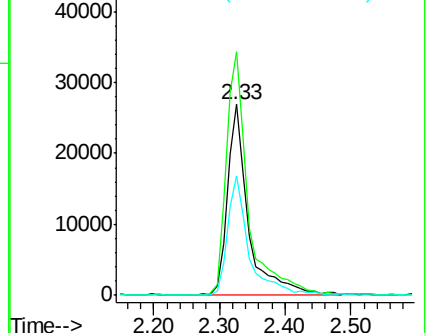
98 62.6 52.2 78.2



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#22

Diisopropyl ether

Concen: 20.709 ug/l

RT: 2.82 min Scan# 222

Delta R.T. 0.01 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

Tgt Ion: 45 Resp: 161356

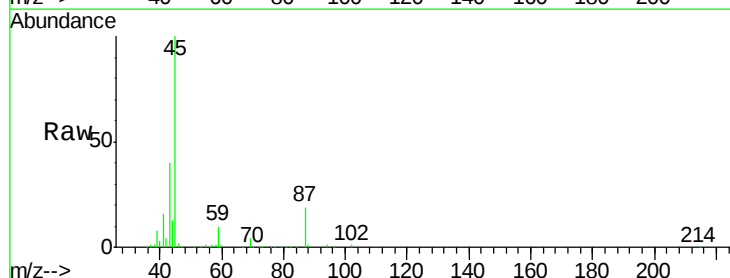
Ion Ratio Lower Upper

45 100

43 39.5 31.4 47.2

87 19.4 16.3 24.5

59 9.6 8.7 13.1

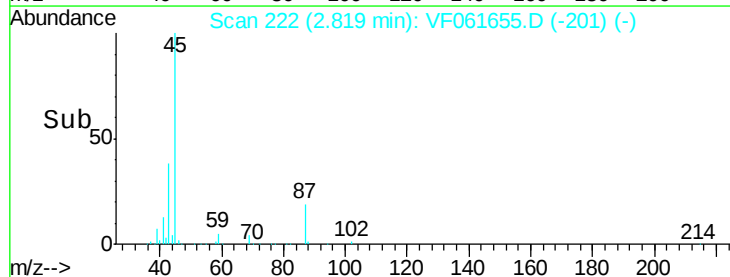
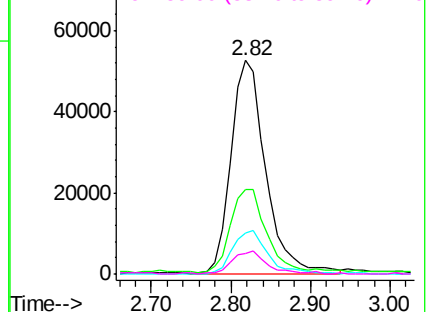


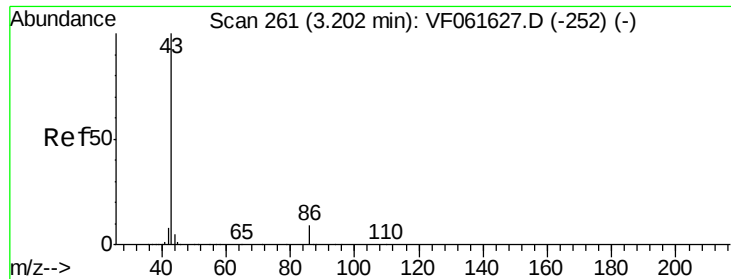
Abundance Ion 45.00 (44.70 to 45.70): VF0

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: 105.629 ug/l

RT: 3.21 min Scan# 262

Delta R.T. 0.01 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

Instrument :

MSVOA_F

ClientSampleId :

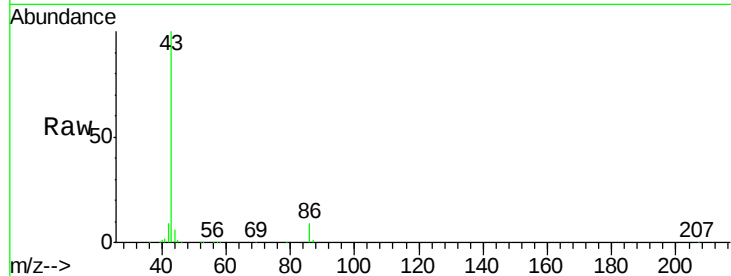
VF0215SBSD01

Tot Ion: 43 Resp: 401983

Ion Ratio Lower Upper

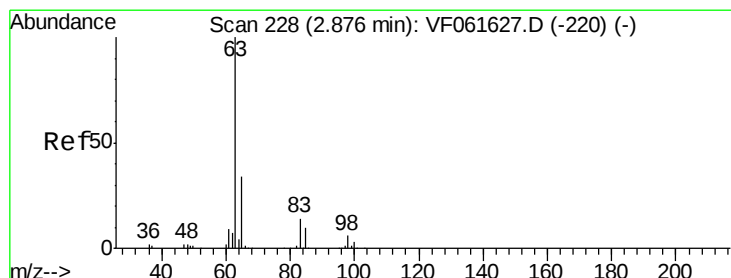
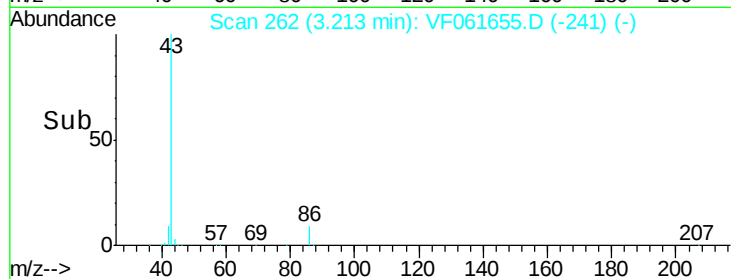
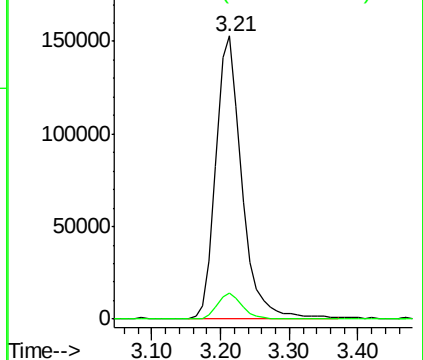
43 100

86 9.3 7.5 11.3



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 19.436 ug/l

RT: 2.89 min Scan# 229

Delta R.T. 0.01 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

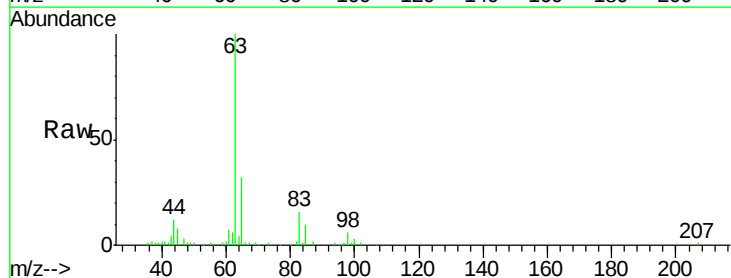
Tgt Ion: 63 Resp: 91643

Ion Ratio Lower Upper

63 100

98 6.5 2.8 8.3

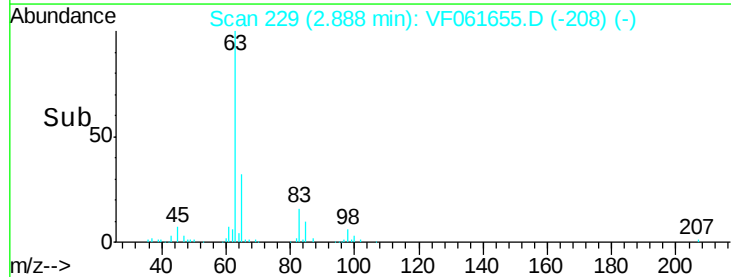
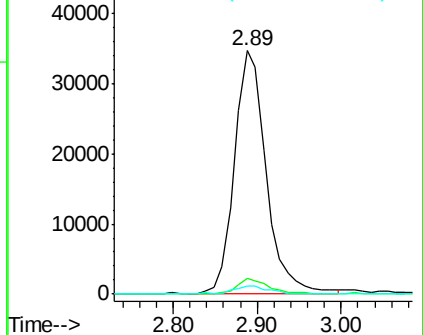
100 3.2 1.8 5.4

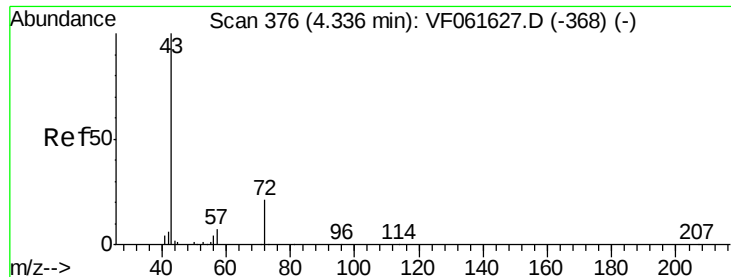


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 103.253 ug/l

RT: 4.36 min Scan# 378

Delta R.T. 0.02 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

Instrument :

MSVOA_F

ClientSampleId :

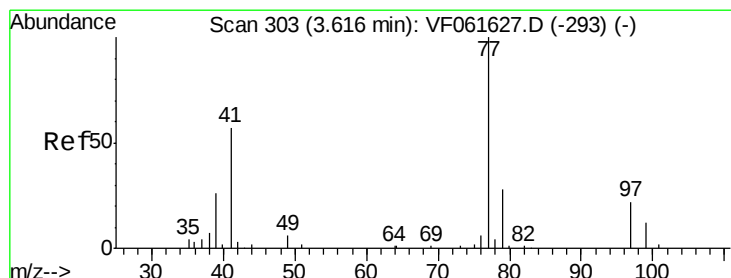
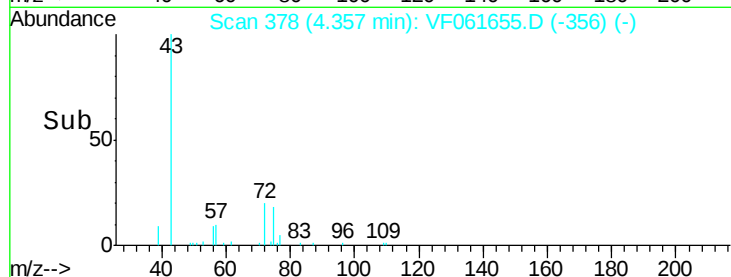
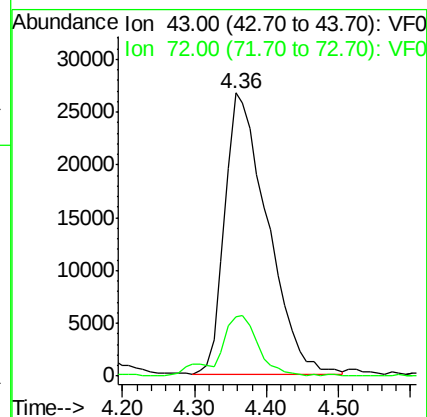
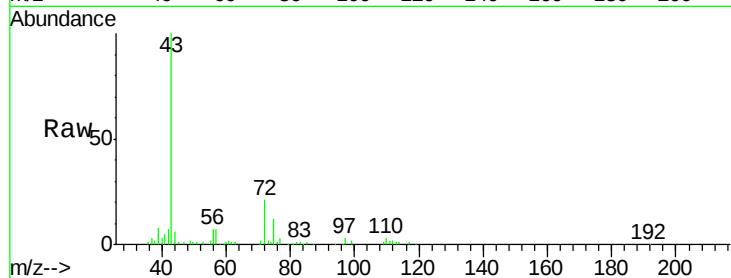
VF0215SBSD01

Tot Ion: 43 Resp: 109539

Ion Ratio Lower Upper

43 100

72 20.8 17.1 25.7



#26

2,2-Dichloropropane

Concen: 21.580 ug/l

RT: 3.63 min Scan# 304

Delta R.T. 0.01 min

Lab File: VF061655.D

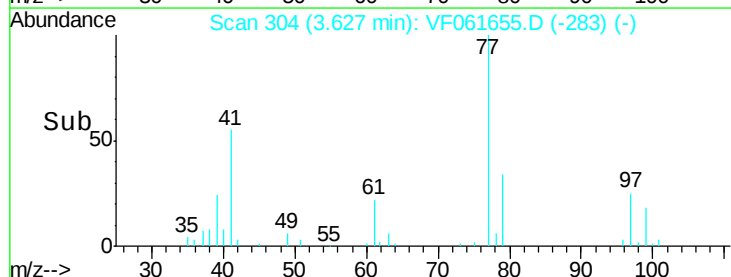
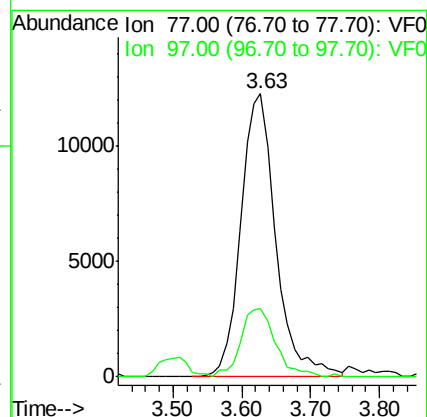
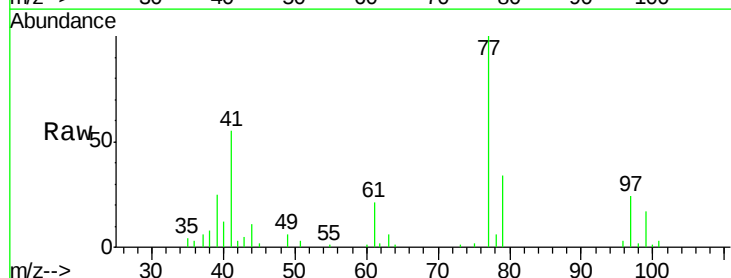
Acq: 15 Feb 2019 14:46

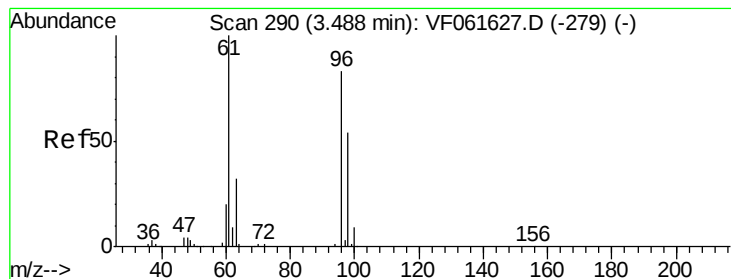
Tgt Ion: 77 Resp: 43101

Ion Ratio Lower Upper

77 100

97 24.3 11.7 35.0



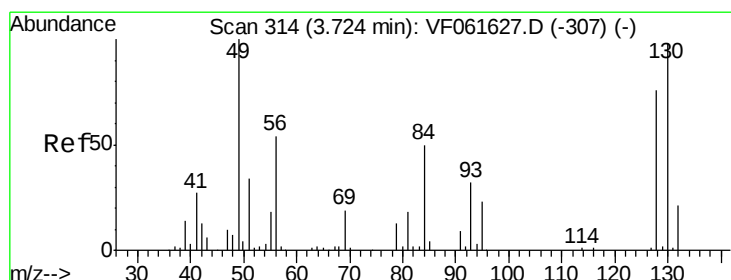
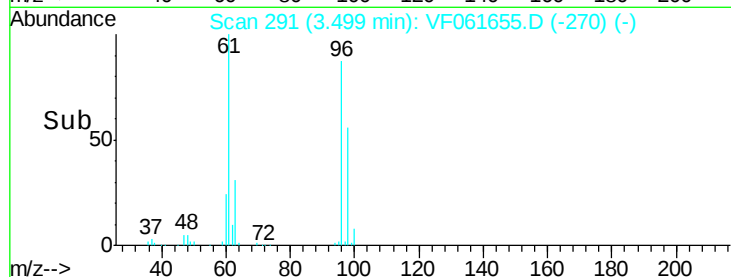
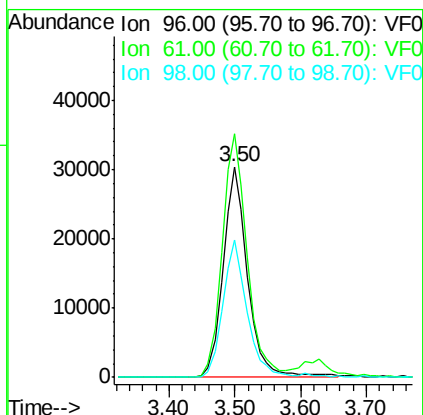
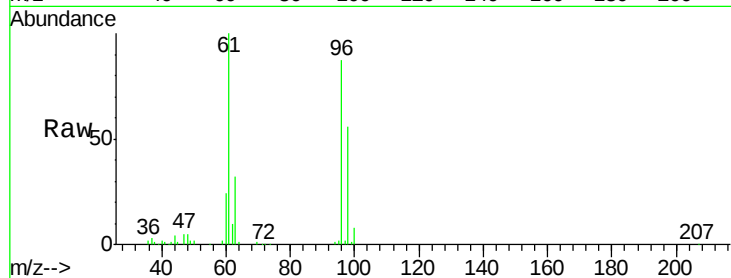


#27

cis-1,2-Dichloroethene
Concen: 20.848 ug/l
RT: 3.50 min Scan# 291
Delta R.T. 0.01 min
Lab File: VF061655.D
Acq: 15 Feb 2019 14:46

Instrument :
MSVOA_F
ClientSampleId :
VF0215SBS01

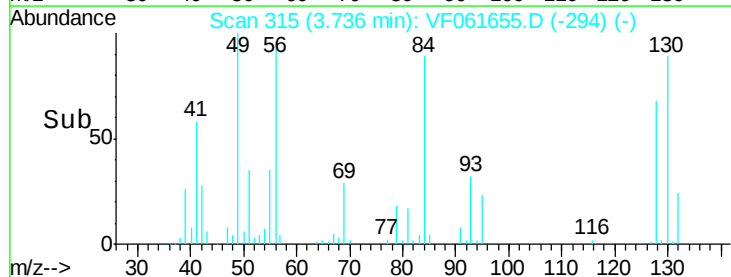
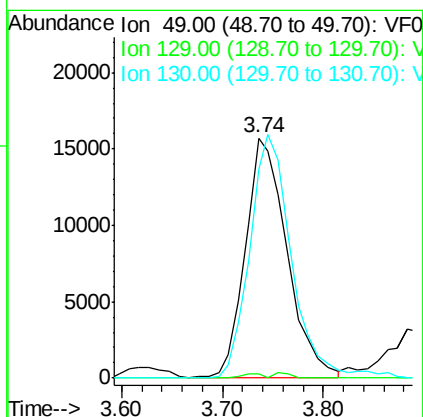
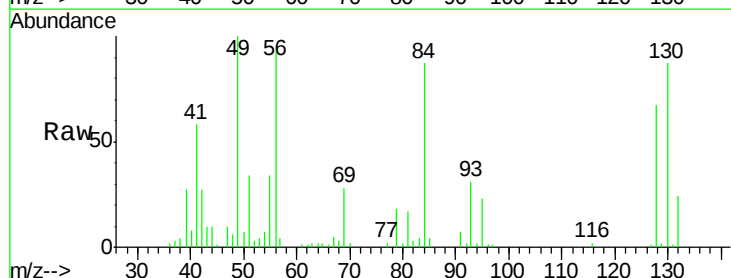
Tot Ion: 96 Resp: 78687
Ion Ratio Lower Upper
96 100
61 115.5 0.0 241.6
98 65.2 0.0 130.2

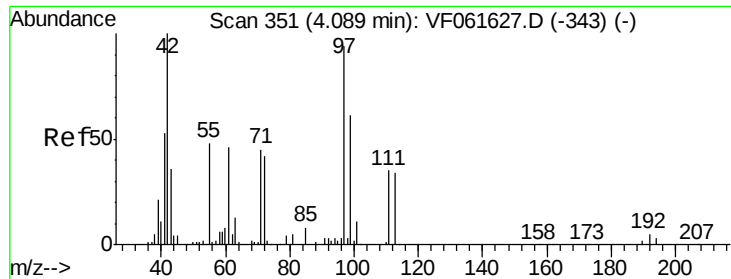


#28

Bromochloromethane
Concen: 20.066 ug/l
RT: 3.74 min Scan# 315
Delta R.T. 0.01 min
Lab File: VF061655.D
Acq: 15 Feb 2019 14:46

Tgt Ion: 49 Resp: 45397
Ion Ratio Lower Upper
49 100
129 1.9 0.0 3.4
130 87.2 77.7 116.5

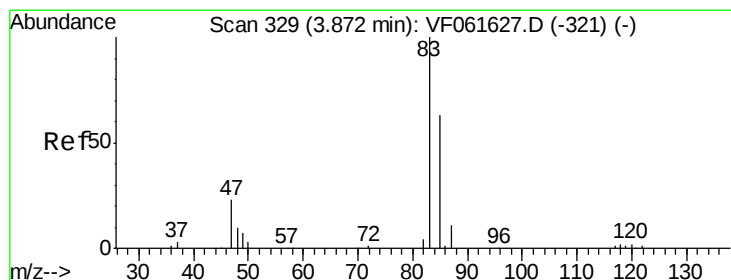
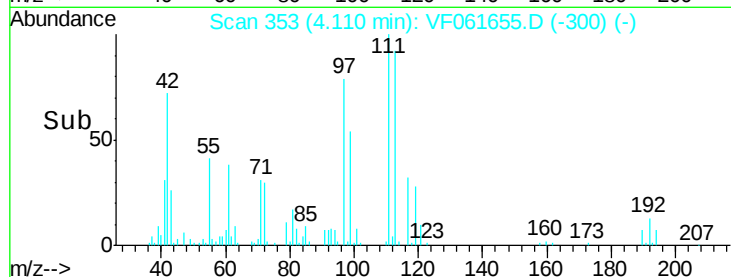
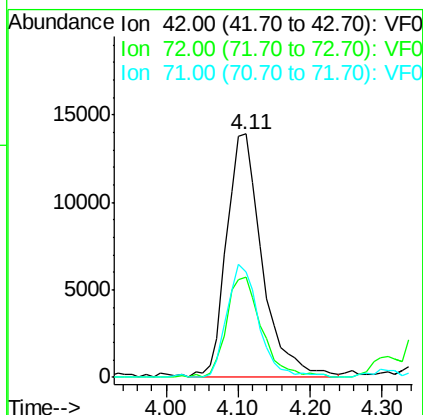
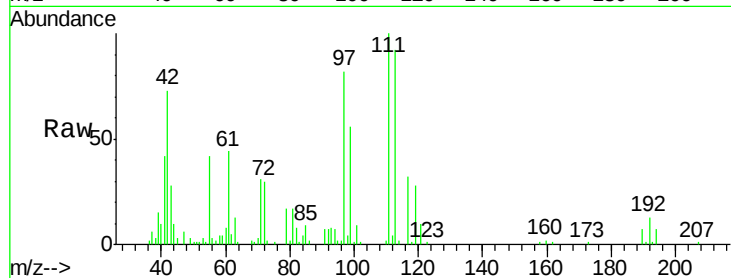




#29
Tetrahydrofuran
Concen: 99.808 ug/l
RT: 4.11 min Scan# 353
Delta R.T. 0.02 min
Lab File: VF061655.D
Acq: 15 Feb 2019 14:46

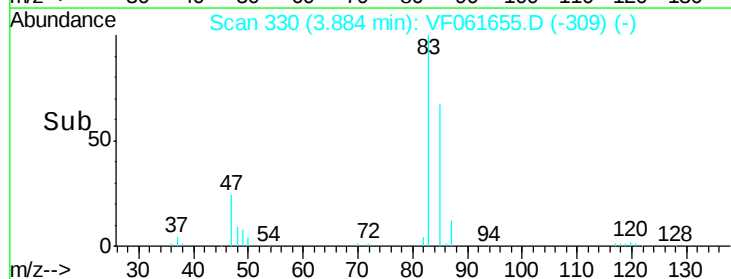
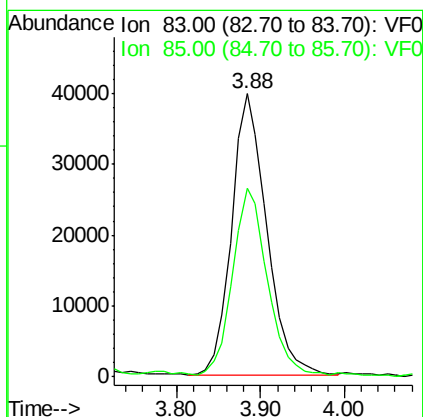
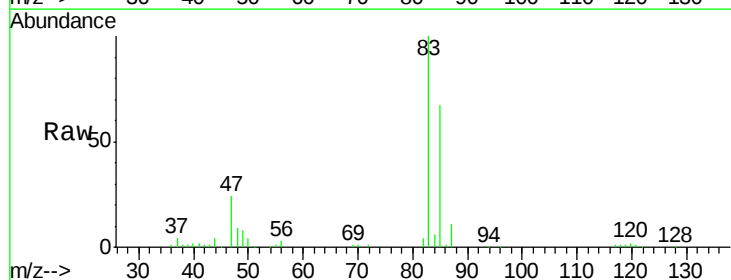
Instrument :
MSVOA_F
ClientSampleId :
VF0215SBS01

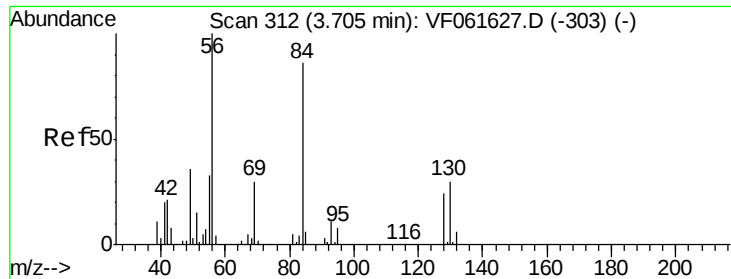
Tot Ion	Ratio	Lower	Upper
42	100		
72	40.8	35.2	52.8
71	41.3	32.9	49.3



#30
Chloroform
Concen: 21.357 ug/l
RT: 3.88 min Scan# 330
Delta R.T. 0.01 min
Lab File: VF061655.D
Acq: 15 Feb 2019 14:46

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.6	51.1	76.7

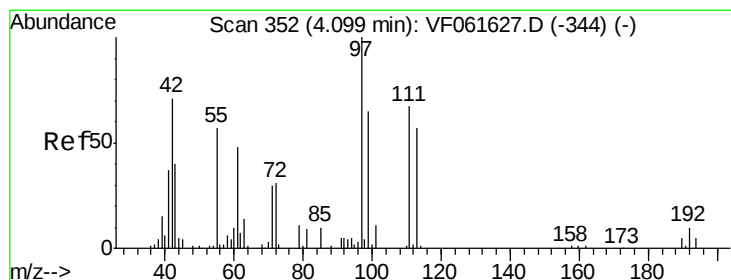
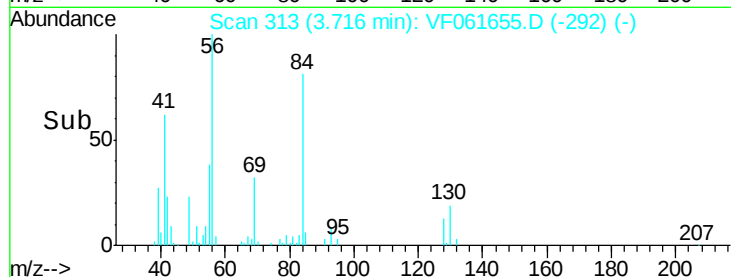
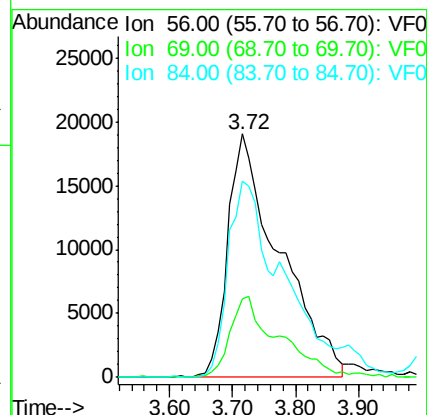
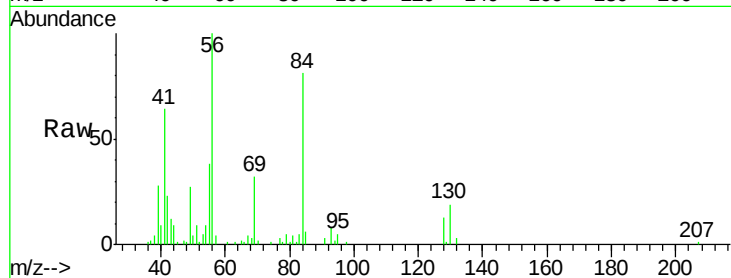




#31
Cyclohexane
Concen: 21.212 ug/l
RT: 3.72 min Scan# 313
Delta R.T. 0.01 min
Lab File: VF061655.D
Acq: 15 Feb 2019 14:46

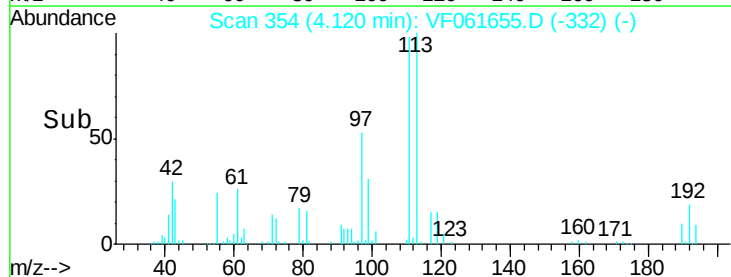
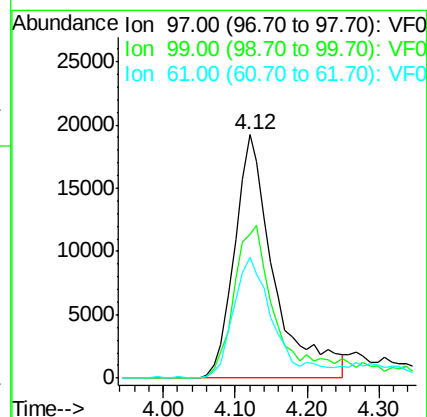
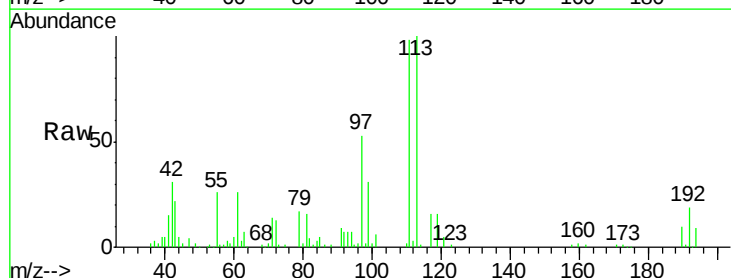
Instrument :
MSVOA_F
ClientSampleId :
VF0215SBS01

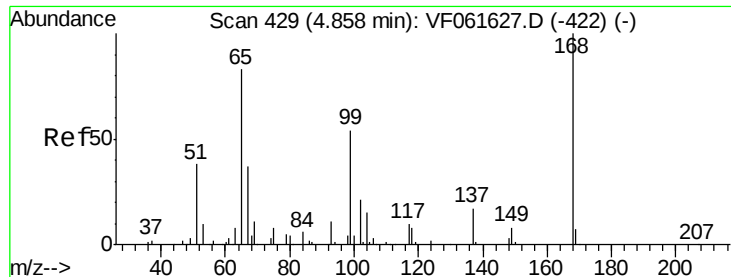
Tot Ion: 56 Resp: 108272
Ion Ratio Lower Upper
56 100
69 32.2 23.8 35.8
84 80.9 68.6 103.0



#32
1,1,1-Trichloroethane
Concen: 20.861 ug/l
RT: 4.12 min Scan# 354
Delta R.T. 0.02 min
Lab File: VF061655.D
Acq: 15 Feb 2019 14:46

Tgt Ion: 97 Resp: 73277
Ion Ratio Lower Upper
97 100
99 59.0 52.2 78.2
61 49.4 39.2 58.8

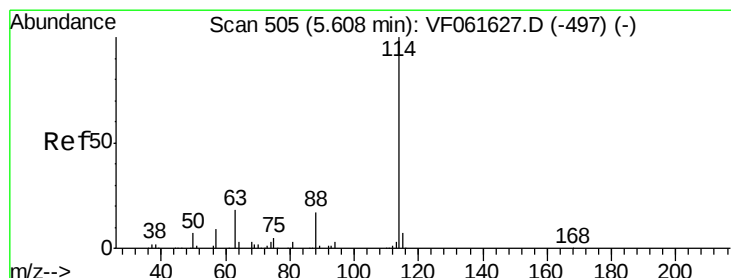
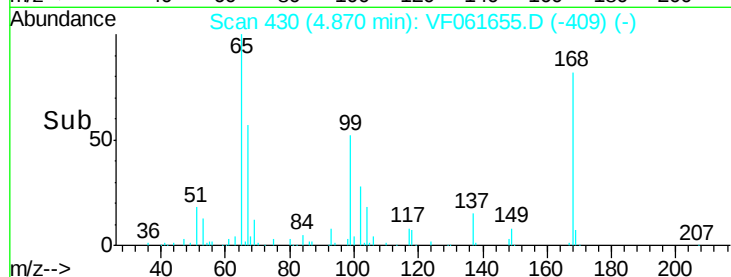
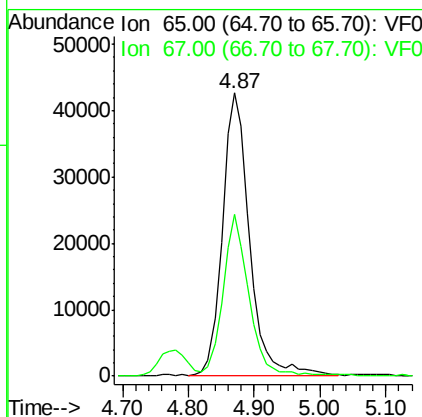
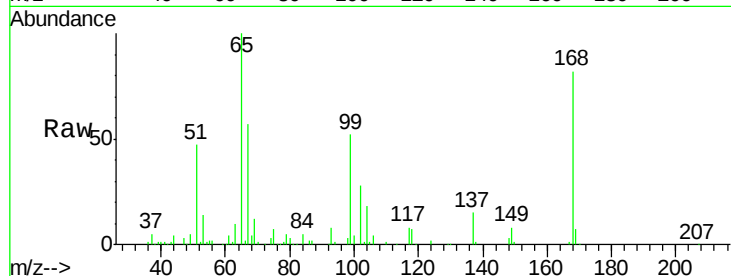




#33
 1,2-Dichloroethane-d4
 Concen: 53.282 ug/l
 RT: 4.87 min Scan# 430
 Delta R.T. 0.01 min
 Lab File: VF061655.D
 Acq: 15 Feb 2019 14:46

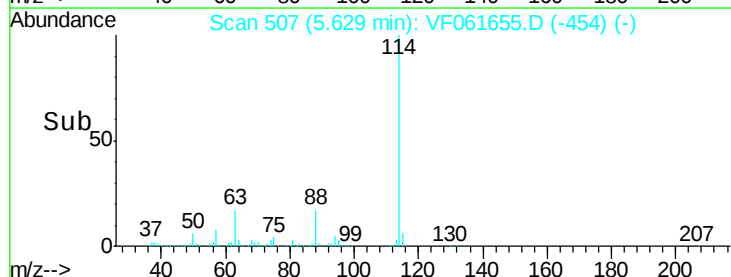
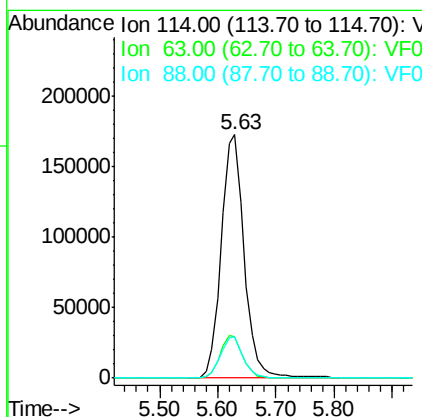
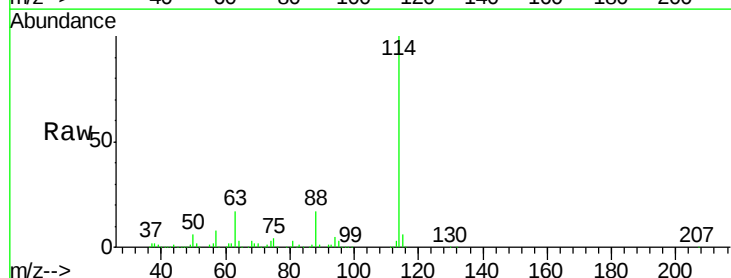
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0215SBS01

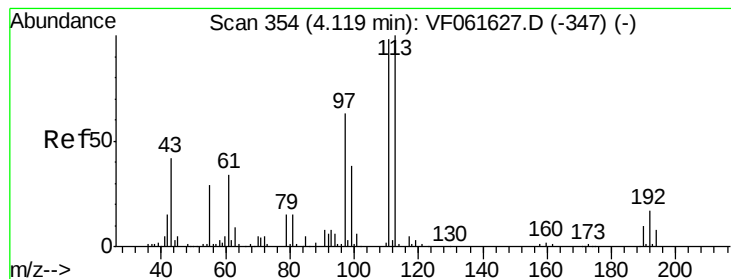
Tot Ion: 65 Resp: 120613
 Ion Ratio Lower Upper
 65 100
 67 57.2 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.63 min Scan# 507
 Delta R.T. 0.02 min
 Lab File: VF061655.D
 Acq: 15 Feb 2019 14:46

Tgt Ion: 114 Resp: 472670
 Ion Ratio Lower Upper
 114 100
 63 17.0 0.0 36.6
 88 16.8 0.0 34.4





#35

Dibromofluoromethane

Concen: 51.507 ug/l

RT: 4.14 min Scan# 356

Delta R.T. 0.02 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

Instrument :

MSVOA_F

ClientSampleId :

VF0215SBS01

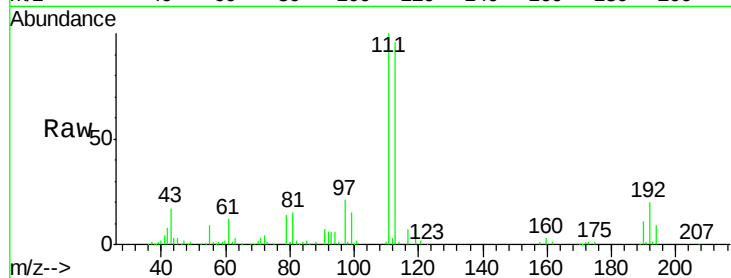
Tot Ion:113 Resp: 180794

Ion Ratio Lower Upper

113 100

111 103.7 78.8 118.2

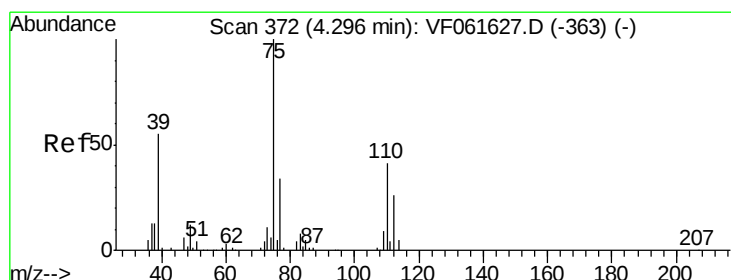
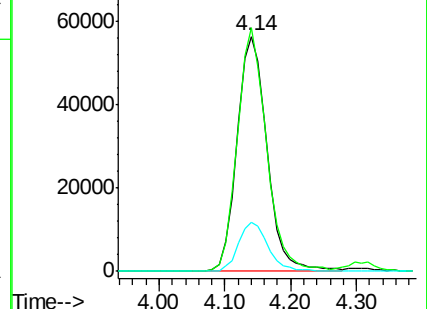
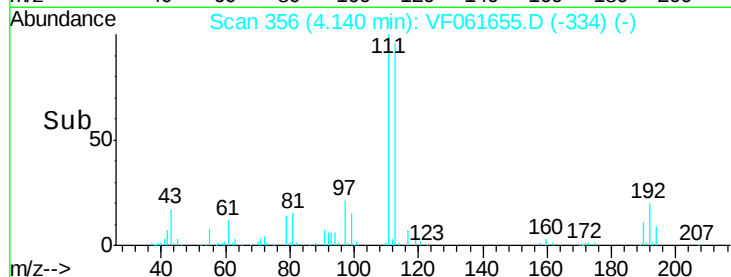
192 21.0 13.4 20.0#



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 19.983 ug/l

RT: 4.31 min Scan# 373

Delta R.T. 0.01 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

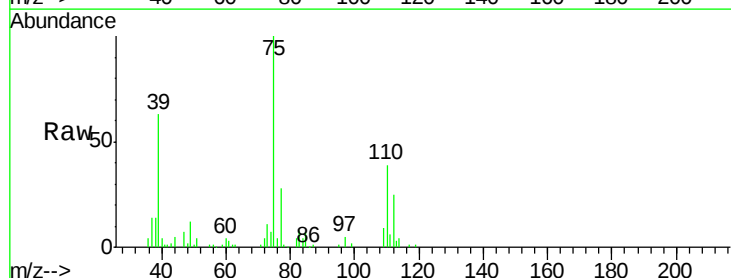
Tgt Ion: 75 Resp: 93566

Ion Ratio Lower Upper

75 100

110 39.3 20.5 61.6

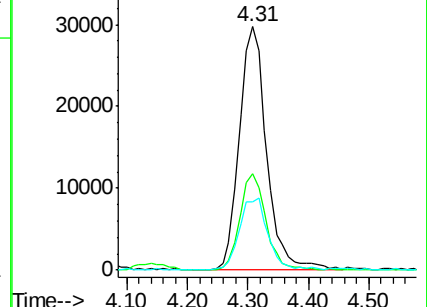
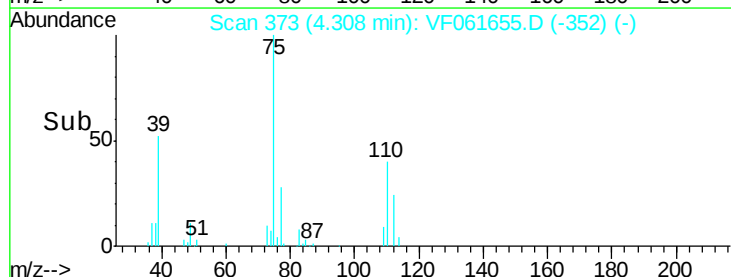
77 27.9 27.0 40.4

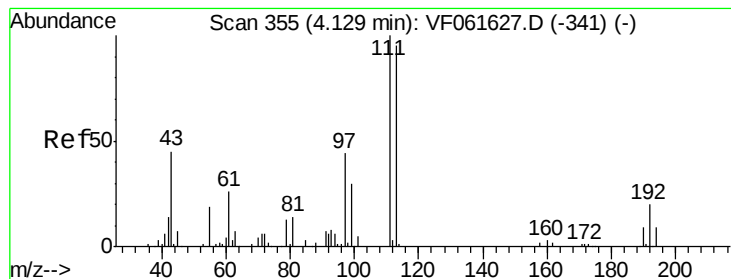


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0





#37

Ethyl Acetate

Concen: 18.562 ug/l

RT: 4.14 min Scan# 356

Delta R.T. 0.01 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

Instrument :

MSVOA_F

ClientSampleId :

VF0215SBSD01

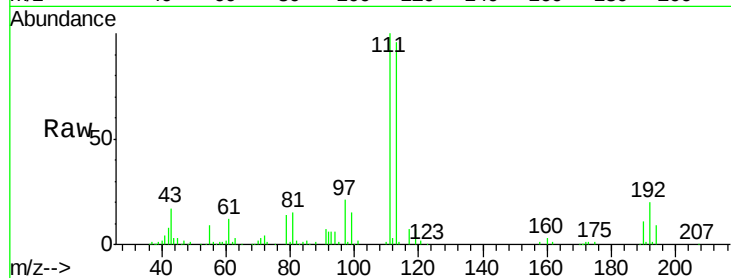
Tot Ion: 43 Resp: 40369

Ion Ratio Lower Upper

43 100

61 70.2 45.7 68.5#

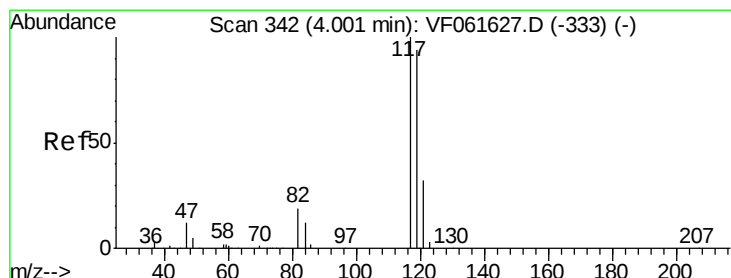
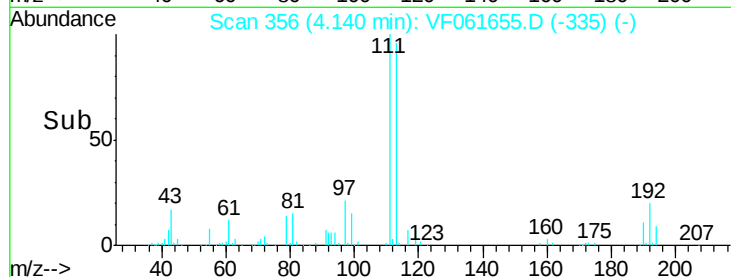
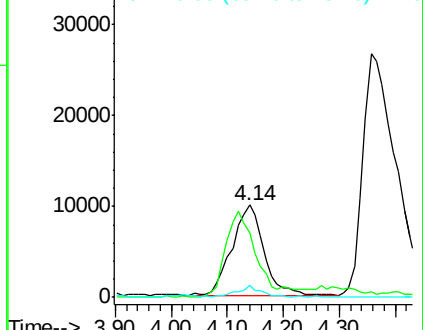
70 13.0 8.5 12.7#



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: 20.459 ug/l

RT: 4.01 min Scan# 343

Delta R.T. 0.01 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

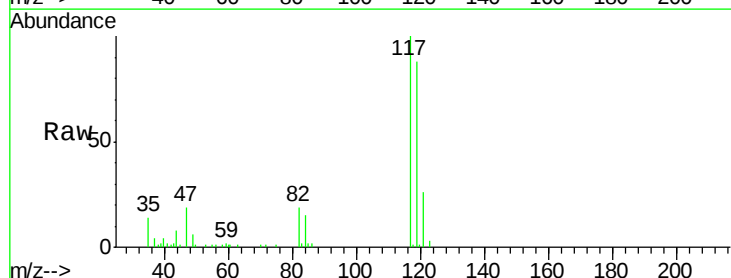
Tgt Ion: 117 Resp: 66147

Ion Ratio Lower Upper

117 100

119 87.6 75.6 113.4

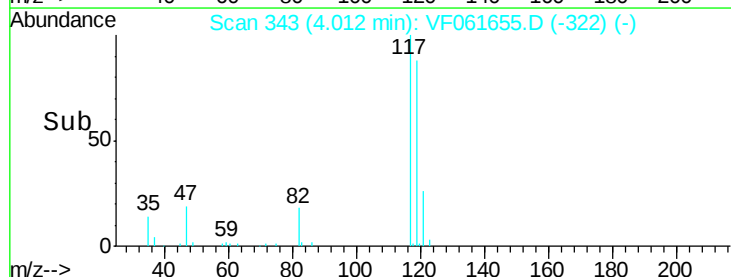
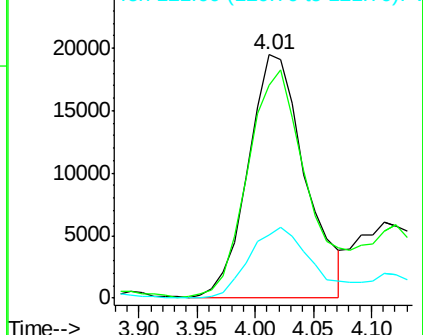
121 26.0 25.2 37.8

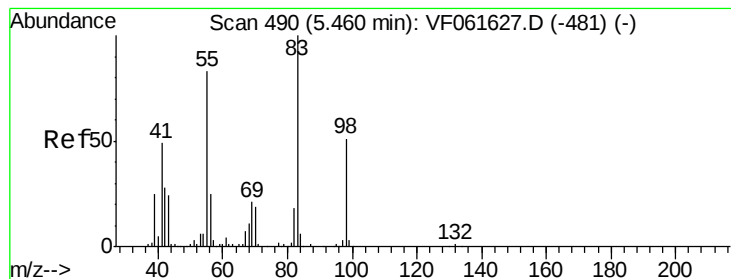


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#39

Methvlcvclohexane

Concen: 20.885 ug/l

RT: 5.48 min Scan# 492

Delta R.T. 0.02 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

Instrument :

MSVOA_F

ClientSampleId :

VF0215SBS01

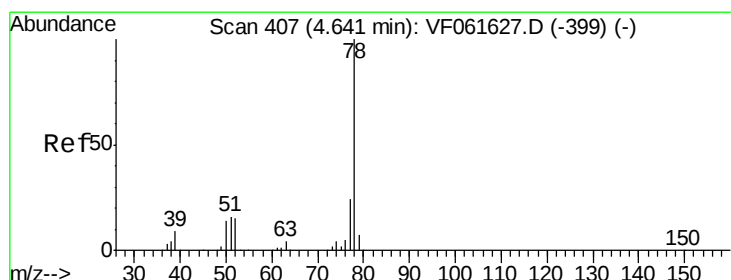
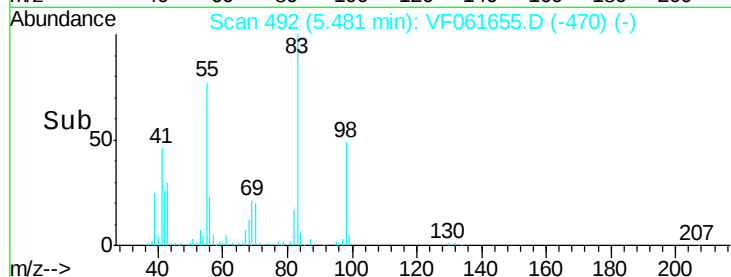
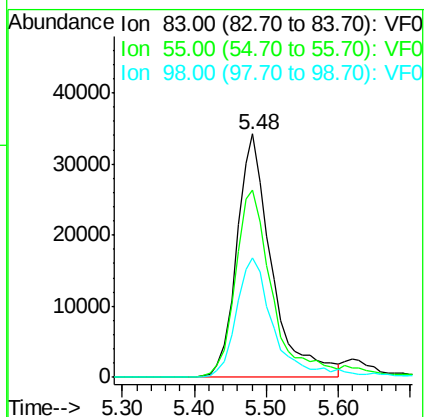
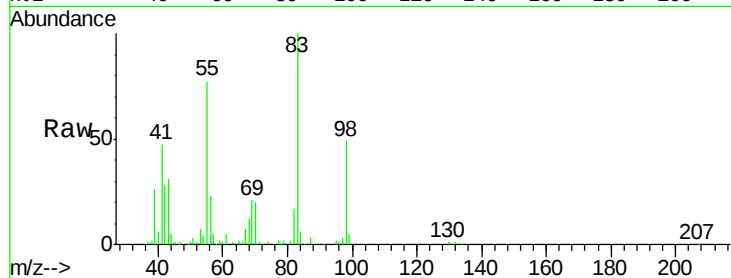
Tot Ion: 83 Resp: 115652

Ion Ratio Lower Upper

83 100

55 77.0 66.6 99.8

98 49.2 40.4 60.6



#40

Benzene

Concen: 20.520 ug/l

RT: 4.66 min Scan# 409

Delta R.T. 0.02 min

Lab File: VF061655.D

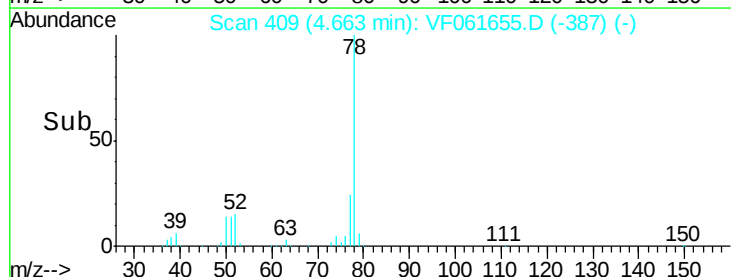
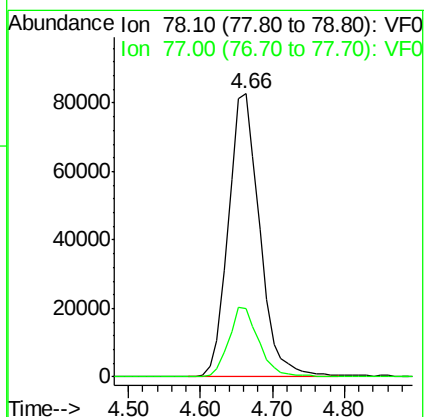
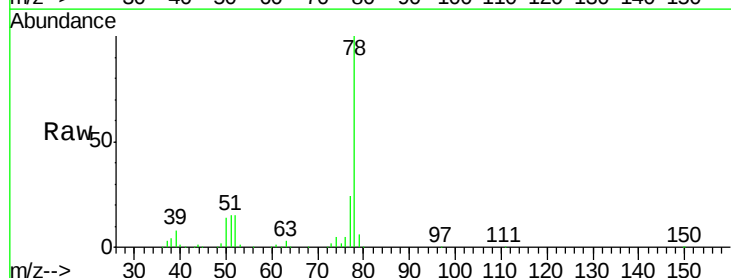
Acq: 15 Feb 2019 14:46

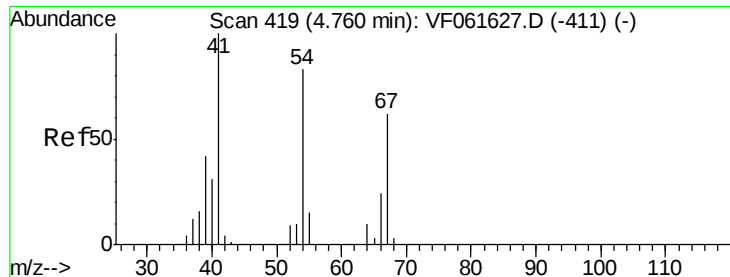
Tgt Ion: 78 Resp: 251325

Ion Ratio Lower Upper

78 100

77 24.1 19.0 28.6





#41

Methacrylonitrile

Concen: 17.302 ug/l

RT: 4.77 min Scan# 420

Delta R.T. 0.01 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

Instrument :

MSVOA_F

ClientSampleId :

VF0215SBSD01

Tot Ion: 41 Resp: 19244

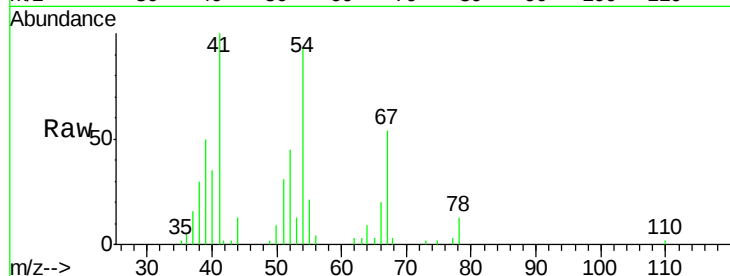
Ion Ratio Lower Upper

41 100

39 49.7 45.3 67.9

67 54.3 49.3 73.9

52 45.1 32.6 49.0

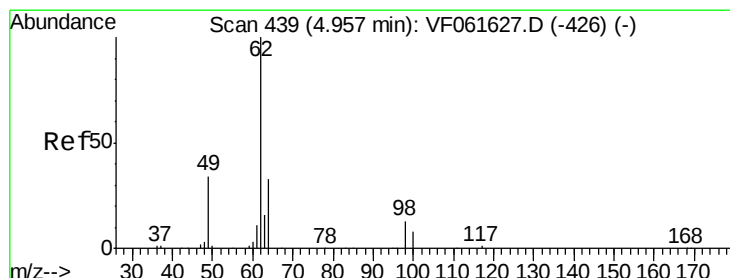
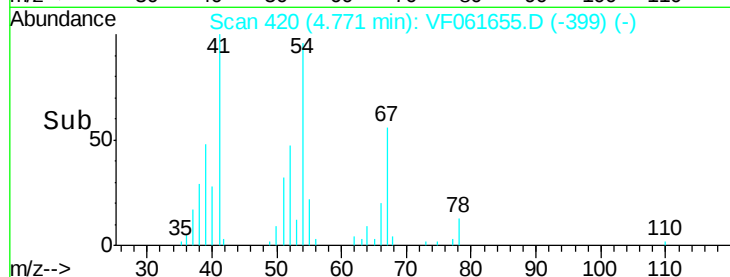
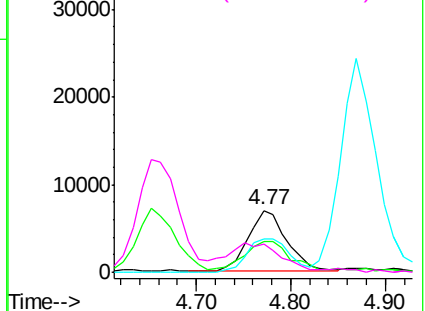


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 18.519 ug/l

RT: 4.97 min Scan# 440

Delta R.T. 0.01 min

Lab File: VF061655.D

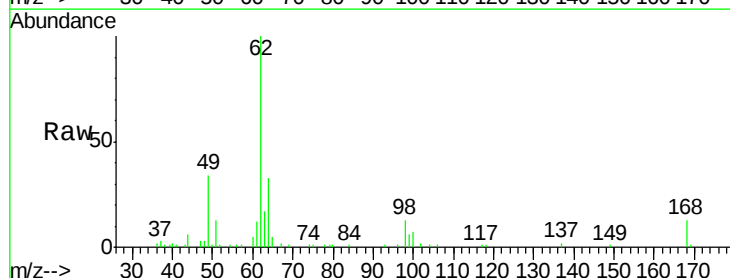
Acq: 15 Feb 2019 14:46

Tgt Ion: 62 Resp: 54255

Ion Ratio Lower Upper

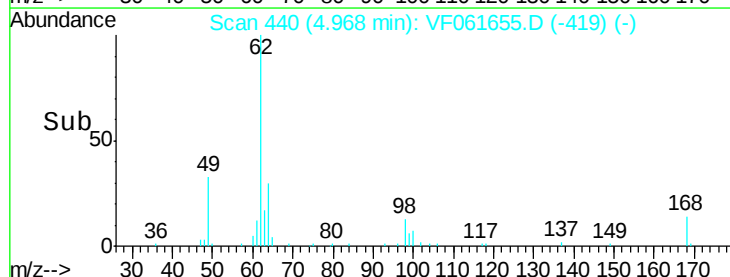
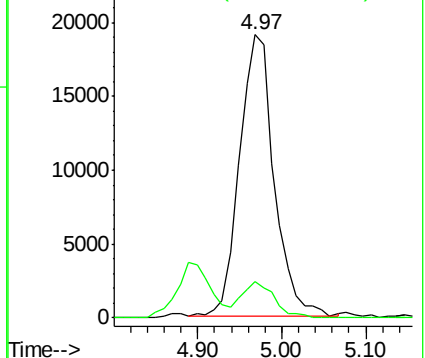
62 100

98 12.7 0.0 26.0



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



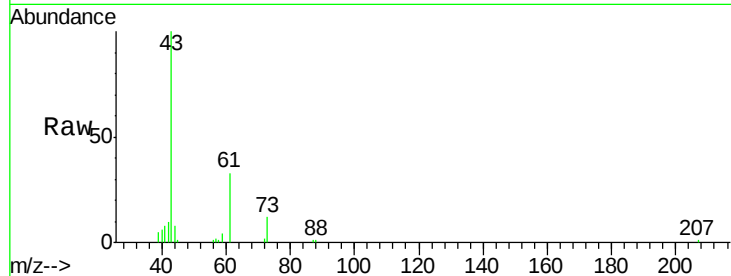


#43

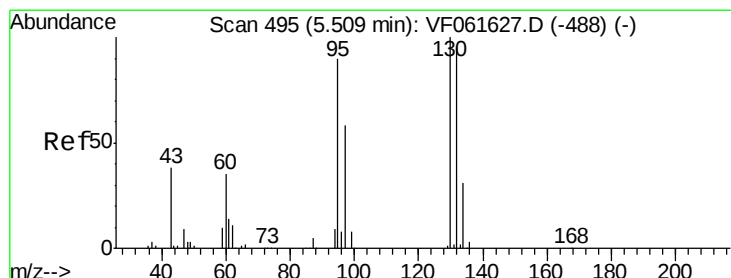
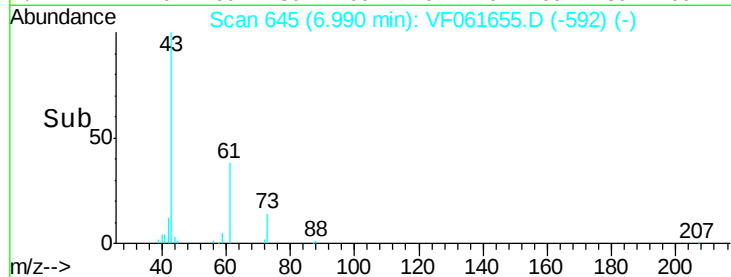
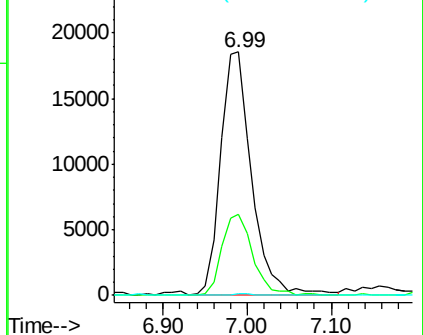
Isopropyl Acetate
 Concen: 18.558 ug/l
 RT: 6.99 min Scan# 645
 Delta R.T. 0.02 min
 Lab File: VF061655.D
 Acq: 15 Feb 2019 14:46

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0215SBS01

Tot Ion: 43 Resp: 47775
 Ion Ratio Lower Upper
 43 100
 61 33.1 25.8 38.6
 87 0.6 0.4 0.6



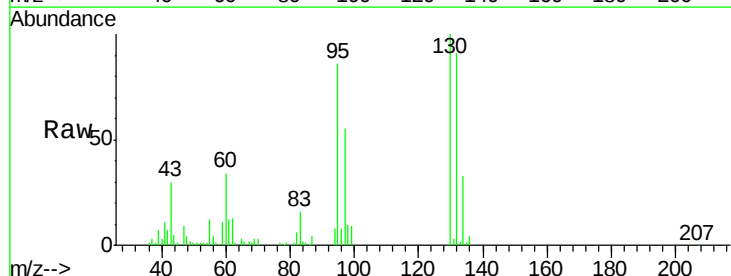
Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 87.00 (86.70 to 87.70): VF0



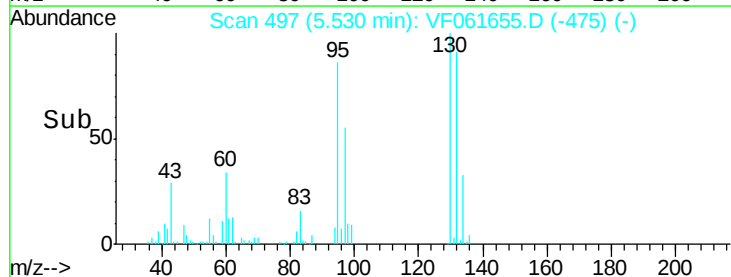
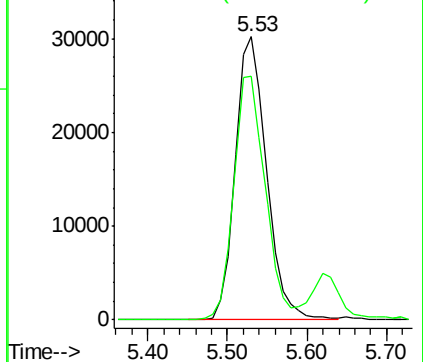
#44

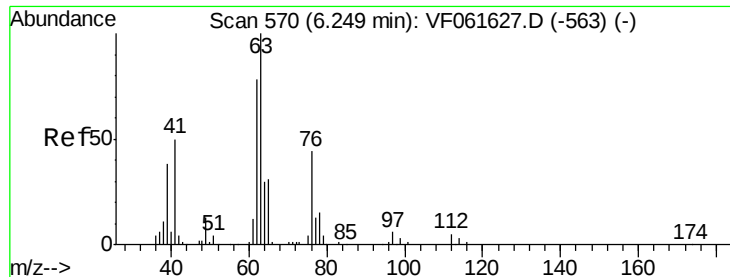
Trichloroethene
 Concen: 20.790 ug/l
 RT: 5.53 min Scan# 497
 Delta R.T. 0.02 min
 Lab File: VF061655.D
 Acq: 15 Feb 2019 14:46

Tgt Ion: 130 Resp: 82341
 Ion Ratio Lower Upper
 130 100
 95 86.0 0.0 179.4



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





#45

1,2-Dichloropropane

Concen: 20.965 ug/l

RT: 6.26 min Scan# 571

Delta R.T. 0.01 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

Instrument :

MSVOA_F

ClientSampleId :

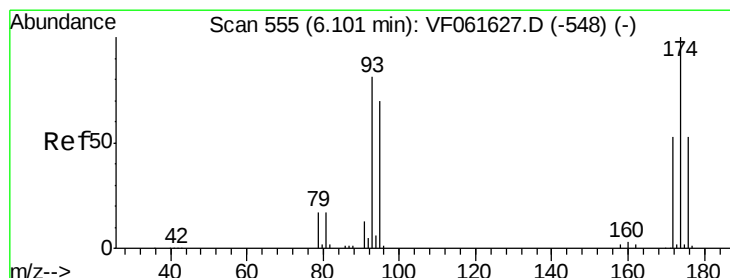
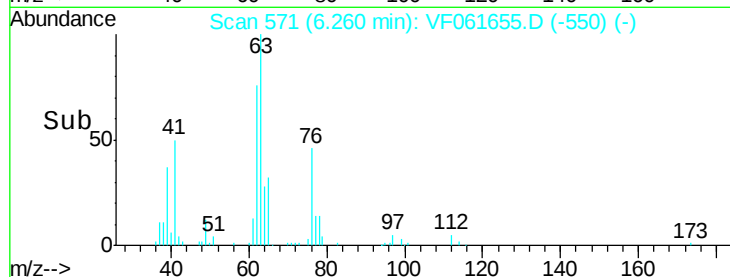
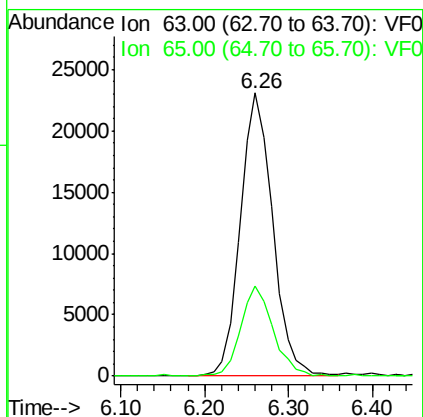
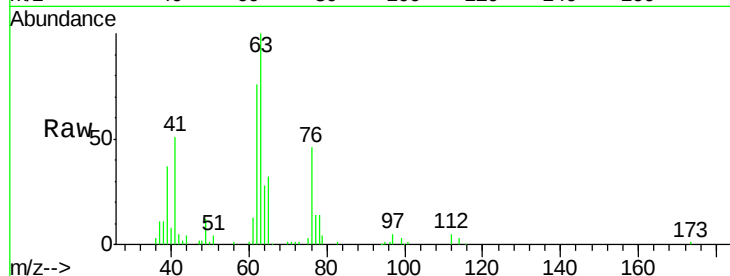
VF0215SBS01

Tot Ion: 63 Resp: 62065

Ion Ratio Lower Upper

63 100

65 31.7 24.9 37.3



#46

Dibromomethane

Concen: 19.648 ug/l

RT: 6.11 min Scan# 556

Delta R.T. 0.01 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

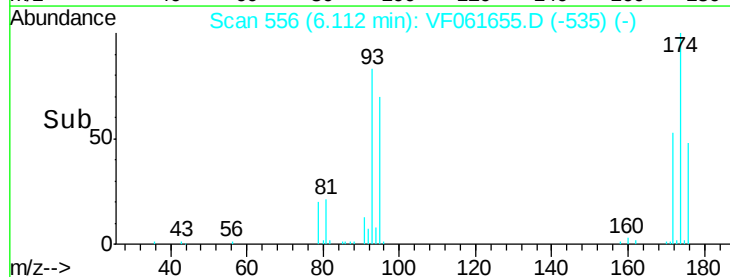
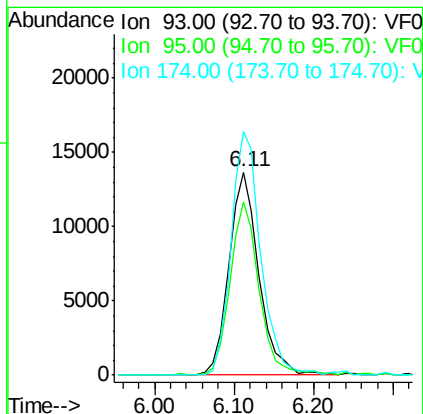
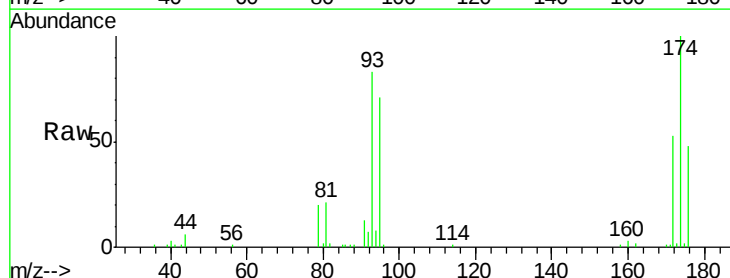
Tgt Ion: 93 Resp: 35813

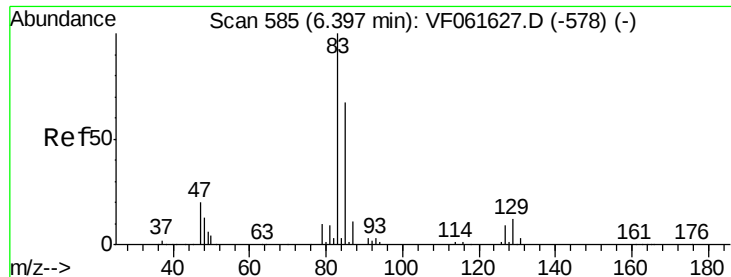
Ion Ratio Lower Upper

93 100

95 85.0 69.0 103.6

174 119.9 99.3 148.9





#47

Bromodichloromethane

Concen: 20.245 ug/l

RT: 6.41 min Scan# 586

Delta R.T. 0.01 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

Instrument :

MSVOA_F

ClientSampleId :

VF0215SBS01

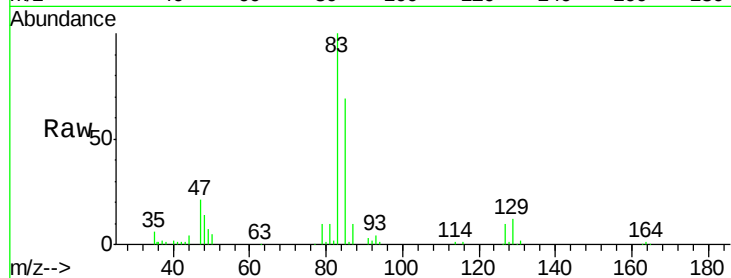
Tot Ion: 83 Resp: 80809

Ion Ratio Lower Upper

83 100

85 68.7 53.4 80.2

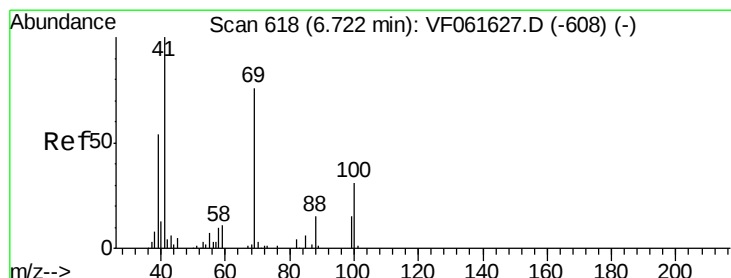
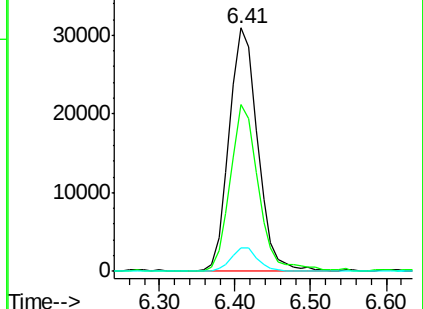
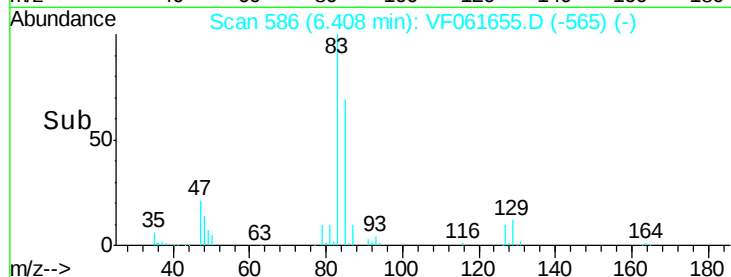
127 9.8 7.5 11.3



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 19.742 ug/l

RT: 6.74 min Scan# 620

Delta R.T. 0.02 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

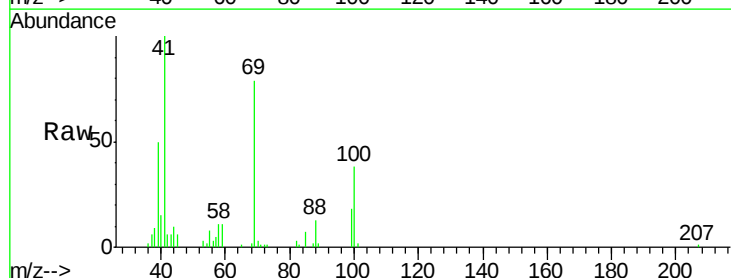
Tgt Ion: 41 Resp: 30584

Ion Ratio Lower Upper

41 100

69 79.0 60.4 90.6

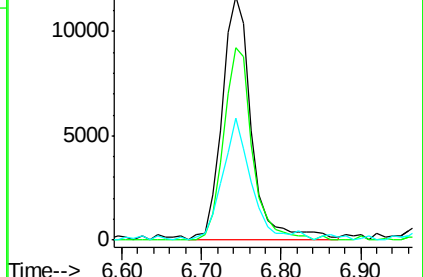
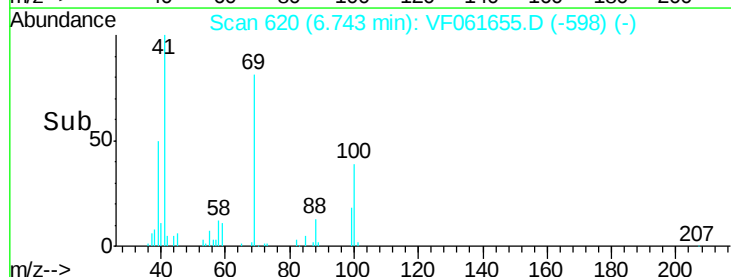
39 49.9 43.7 65.5

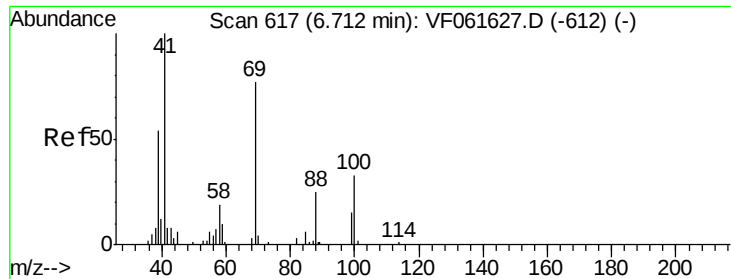


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

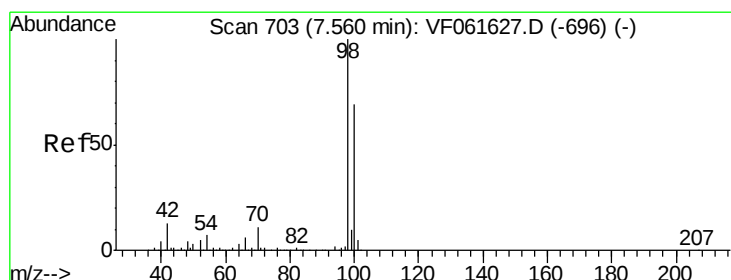
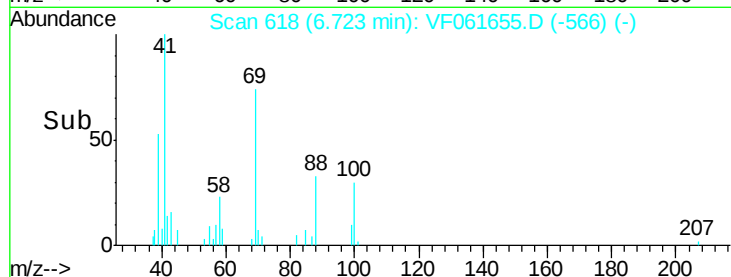
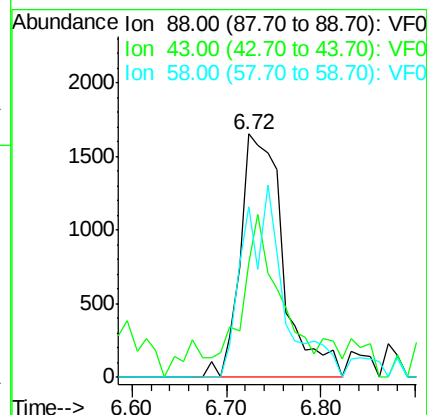
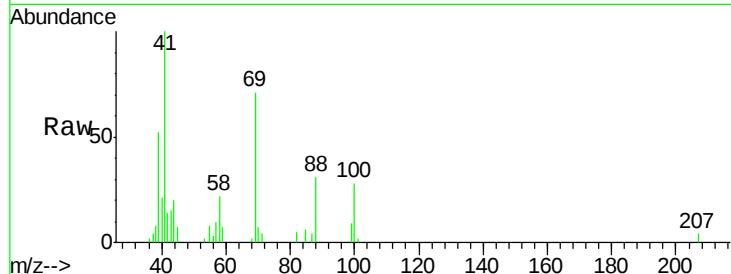




#49
1,4-Dioxane
Concen: 357.679 ug/l
RT: 6.72 min Scan# 618
Delta R.T. 0.01 min
Lab File: VF061655.D
Acq: 15 Feb 2019 14:46

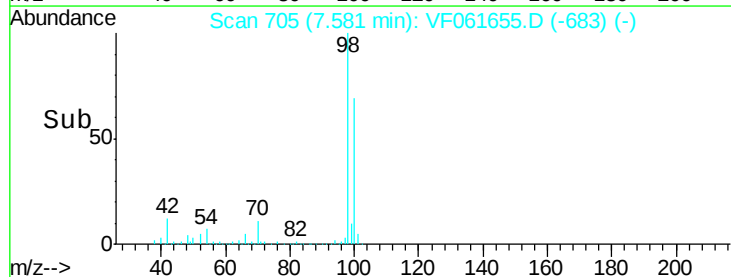
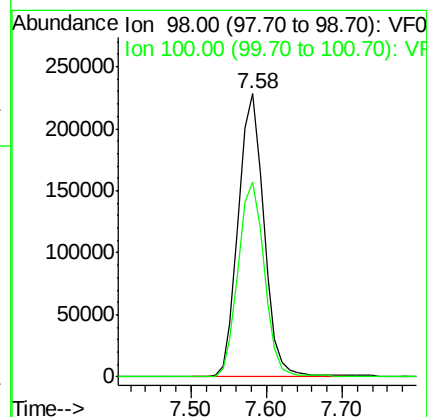
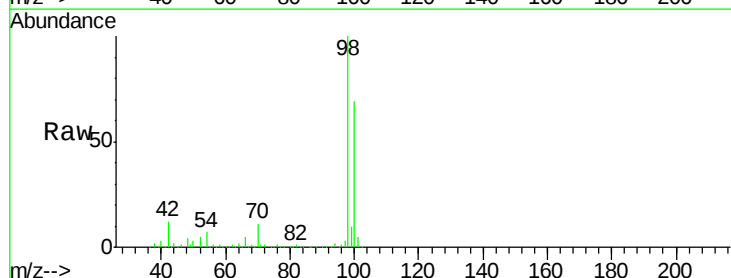
Instrument :
MSVOA_F
ClientSampleId :
VF0215SBSD01

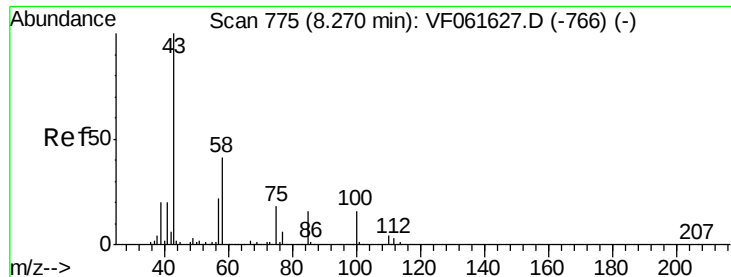
Tot Ion: 88 Resp: 5209
Ion Ratio Lower Upper
88 100
43 47.1 32.3 48.5
58 70.1 59.4 89.2



#50
Toluene-d8
Concen: 53.076 ug/l
RT: 7.58 min Scan# 705
Delta R.T. 0.02 min
Lab File: VF061655.D
Acq: 15 Feb 2019 14:46

Tgt Ion: 98 Resp: 535565
Ion Ratio Lower Upper
98 100
100 69.1 55.4 83.2





#51

4-Methyl-2-Pentanone

Concen: 94.920 ug/l

RT: 8.28 min Scan# 776

Delta R.T. 0.01 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

Instrument :

MSVOA_F

ClientSampleId :

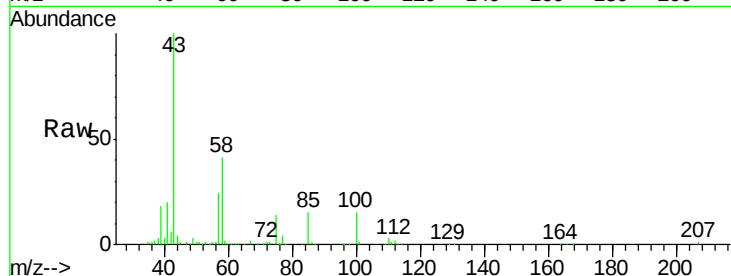
VF0215SBS01

Tot Ion: 43 Resp: 174601

Ion Ratio Lower Upper

43 100

58 40.5 33.1 49.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.28

60000

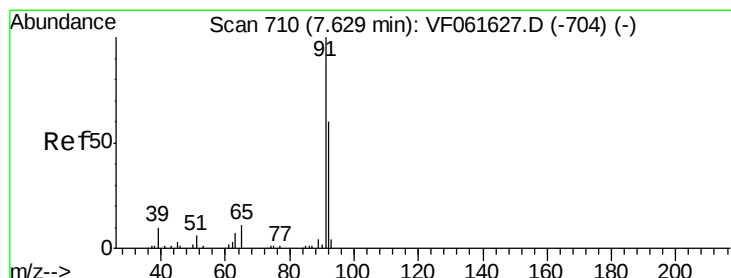
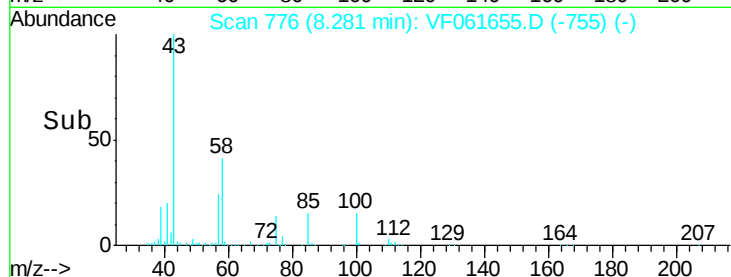
40000

20000

0

8.20 8.30 8.40

Time-->



#52

Toluene

Concen: 21.257 ug/l

RT: 7.65 min Scan# 712

Delta R.T. 0.02 min

Lab File: VF061655.D

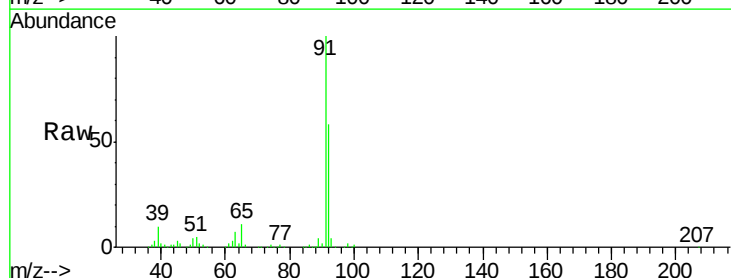
Acq: 15 Feb 2019 14:46

Tgt Ion: 92 Resp: 157897

Ion Ratio Lower Upper

92 100

91 172.1 133.9 200.9



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.65

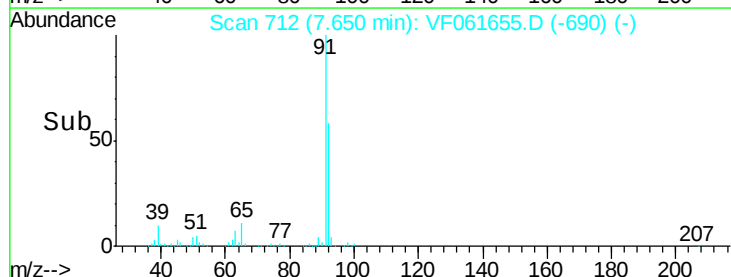
100000

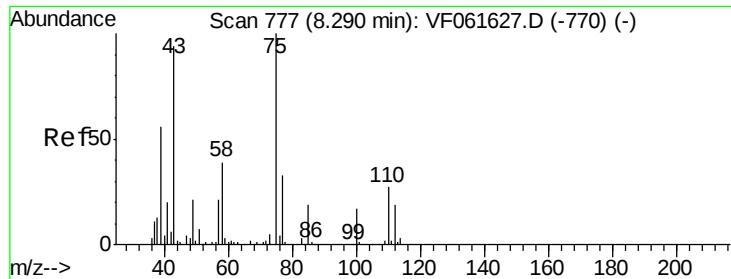
50000

0

7.50 7.60 7.70 7.80

Time-->

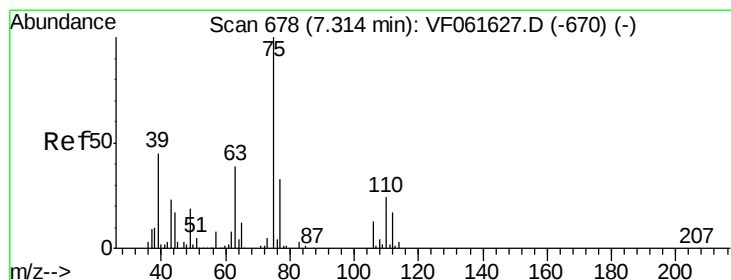
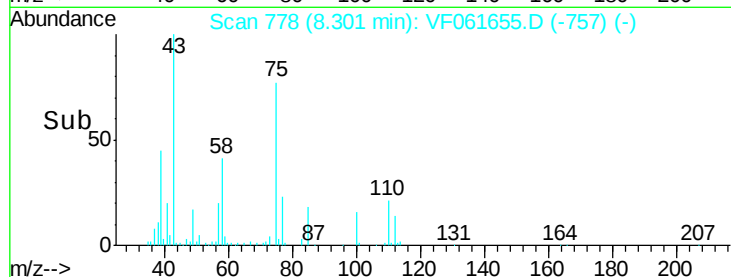
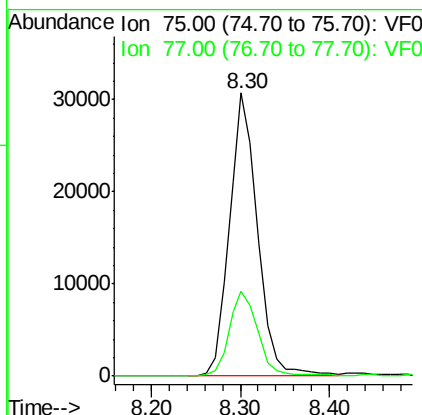
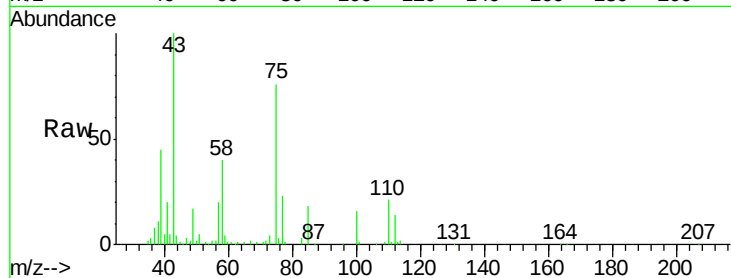




#53
 t-1,3-Dichloropropene
 Concen: 20.494 ug/l
 RT: 8.30 min Scan# 778
 Delta R.T. 0.01 min
 Lab File: VF061655.D
 Acq: 15 Feb 2019 14:46

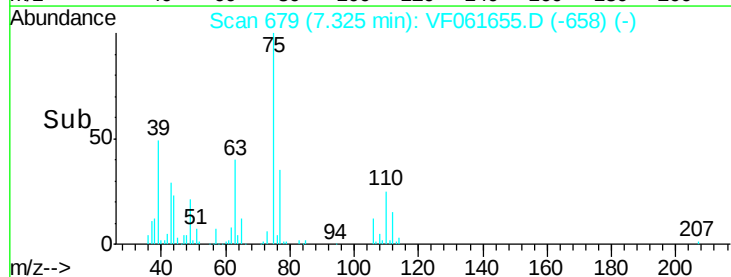
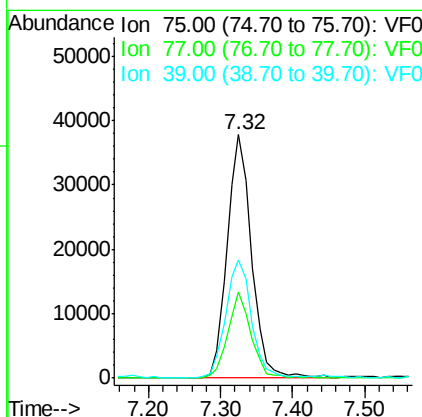
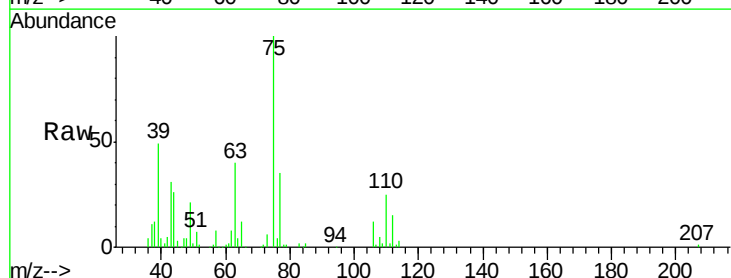
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0215SBS01

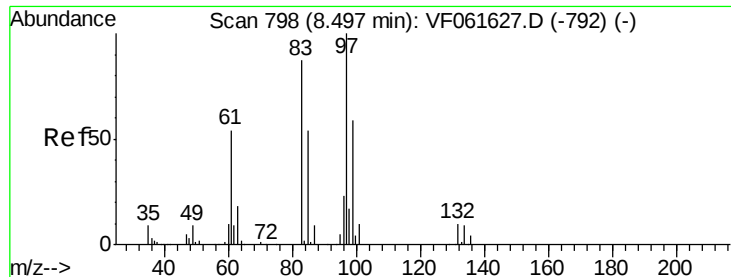
Tot Ion: 75 Resp: 68083
 Ion Ratio Lower Upper
 75 100
 77 29.9 26.2 39.2



#54
 cis-1,3-Dichloropropene
 Concen: 20.153 ug/l
 RT: 7.32 min Scan# 679
 Delta R.T. 0.01 min
 Lab File: VF061655.D
 Acq: 15 Feb 2019 14:46

Tgt Ion: 75 Resp: 89176
 Ion Ratio Lower Upper
 75 100
 77 35.3 26.4 39.6
 39 48.6 36.0 54.0





#55

1,1,2-Trichloroethane

Concen: 19.497 ug/l

RT: 8.52 min Scan# 800

Delta R.T. 0.02 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

Instrument :

MSVOA_F

ClientSampleId :

VF0215SBS01

Tot Ion: 97 Resp: 42551

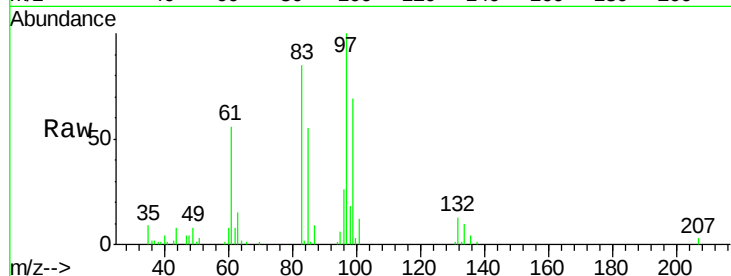
Ion Ratio Lower Upper

97 100

83 84.6 69.2 103.8

85 54.8 43.0 64.4

99 68.6 47.2 70.8

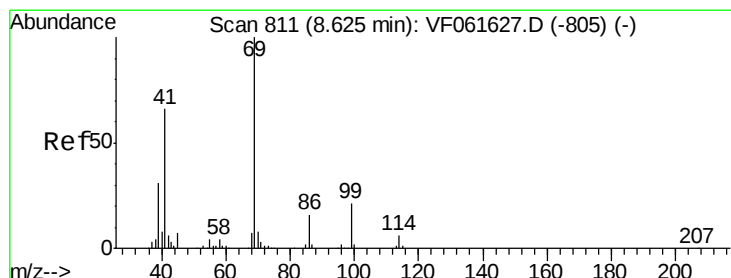
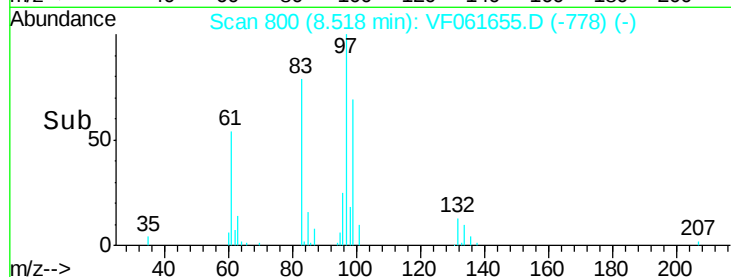
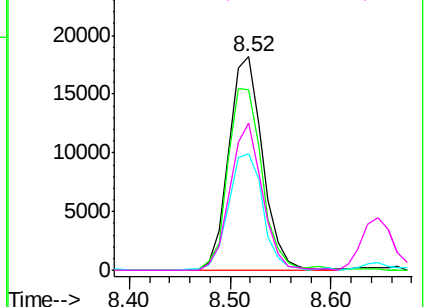


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 19.646 ug/l

RT: 8.65 min Scan# 813

Delta R.T. 0.02 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

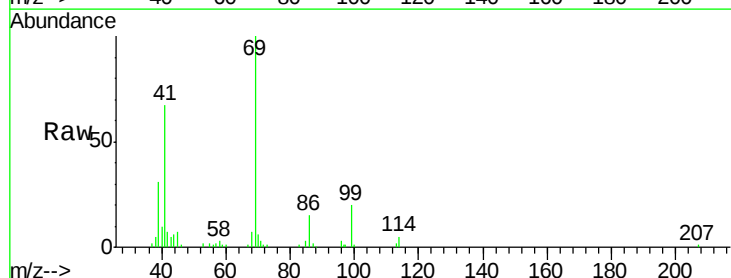
Tgt Ion: 69 Resp: 47736

Ion Ratio Lower Upper

69 100

41 67.0 52.9 79.3

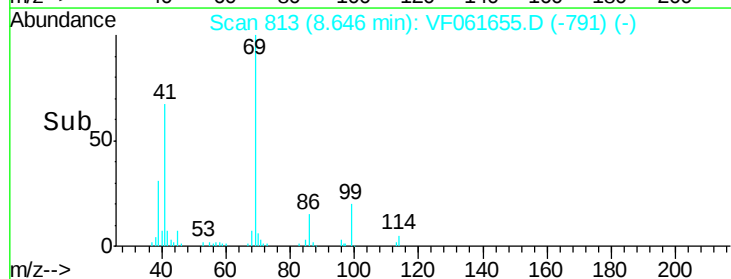
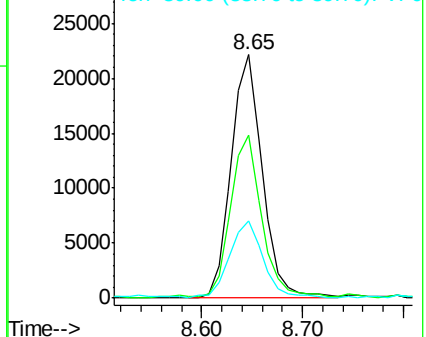
39 31.5 24.5 36.7

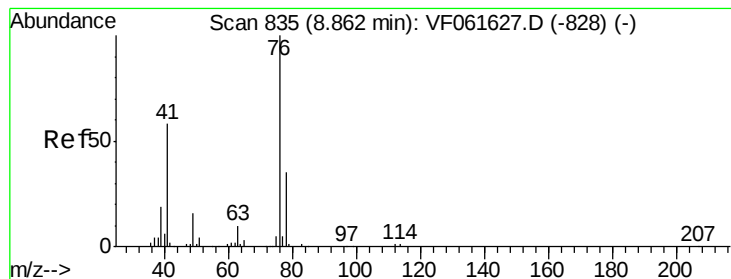


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 18.964 ug/l

RT: 8.87 min Scan# 836

Delta R.T. 0.01 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

Instrument :

MSVOA_F

ClientSampleId :

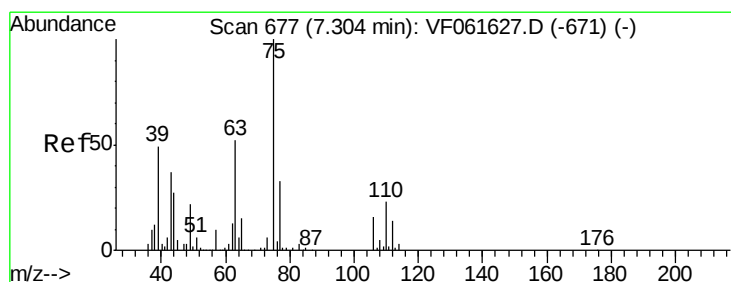
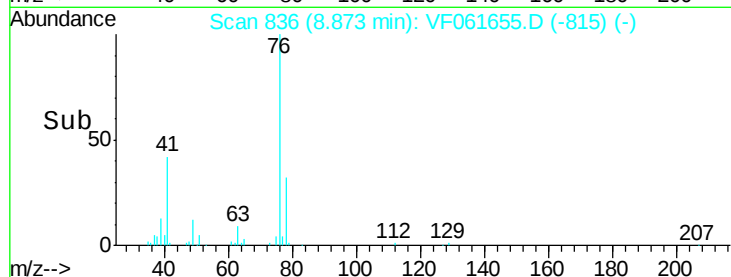
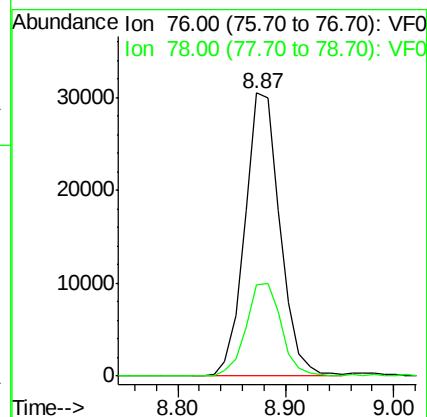
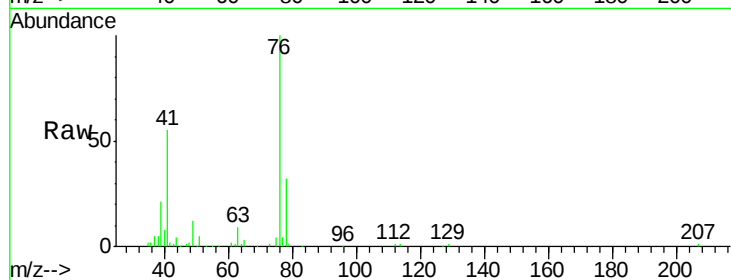
VF0215SBS01

Tot Ion: 76 Resp: 69080

Ion Ratio Lower Upper

76 100

78 32.3 27.8 41.6



#58

2-Chloroethyl Vinyl ether

Concen: 87.199 ug/l

RT: 7.32 min Scan# 678

Delta R.T. 0.01 min

Lab File: VF061655.D

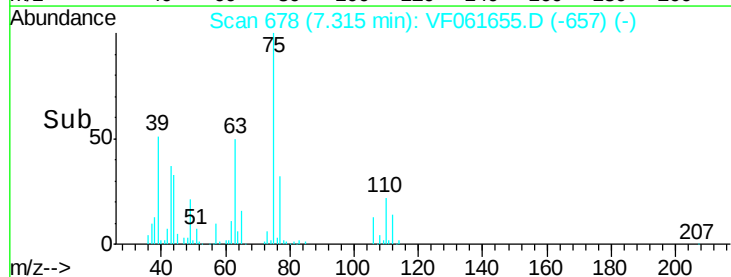
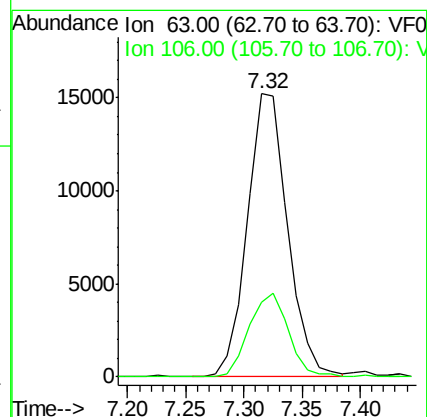
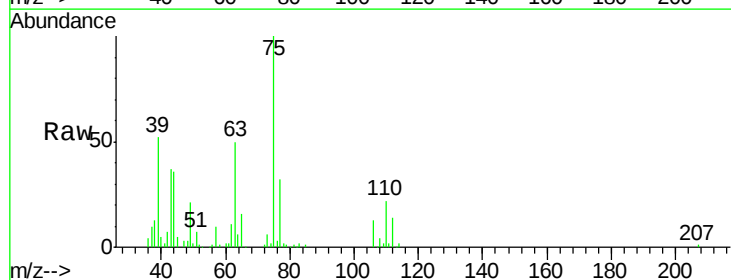
Acq: 15 Feb 2019 14:46

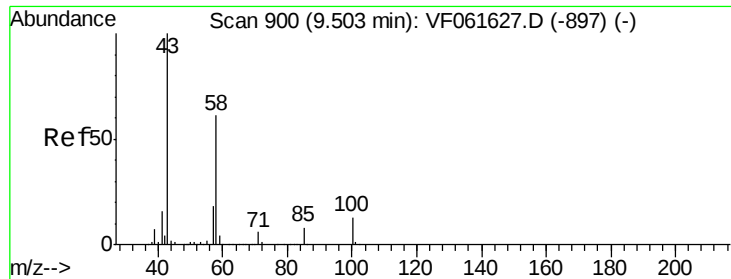
Tgt Ion: 63 Resp: 36556

Ion Ratio Lower Upper

63 100

106 26.3 24.6 36.8

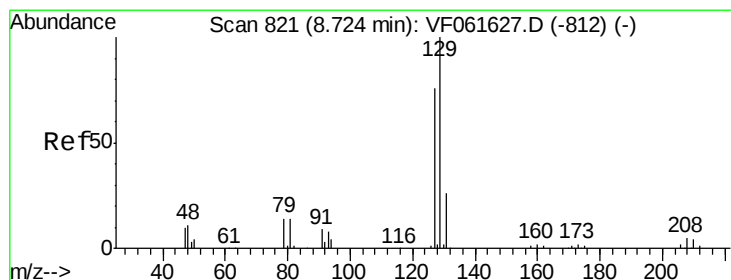
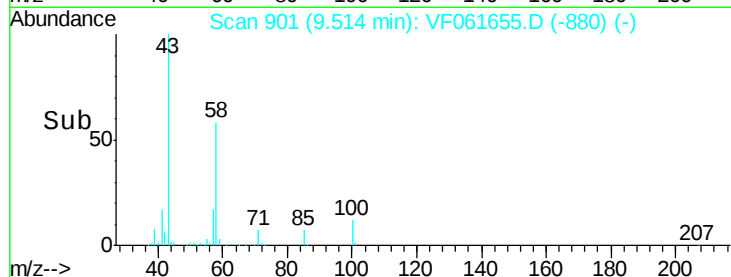
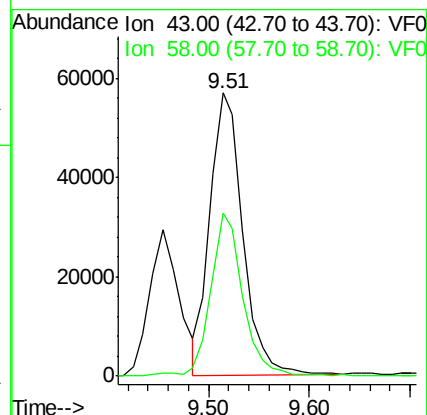
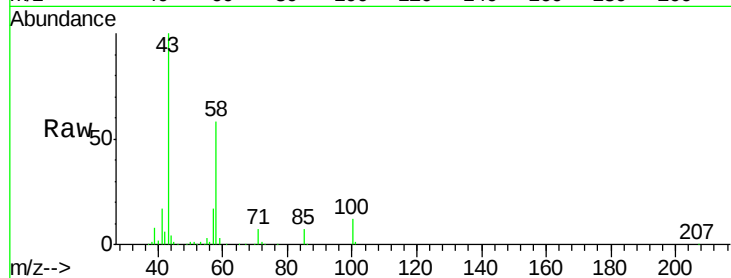




#59
2-Hexanone
Concen: 99.733 ug/l
RT: 9.51 min Scan# 901
Delta R.T. 0.01 min
Lab File: VF061655.D
Acq: 15 Feb 2019 14:46

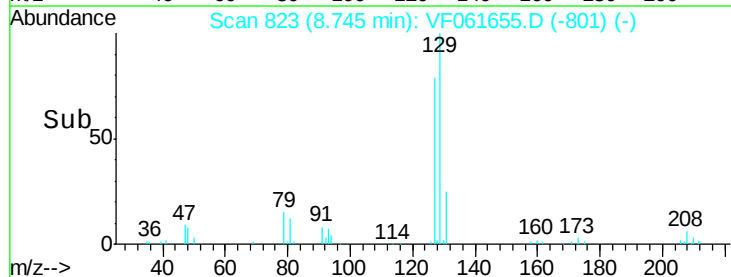
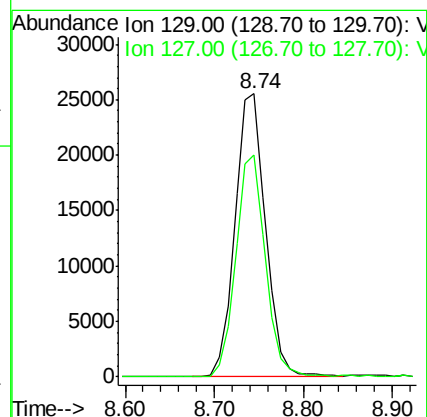
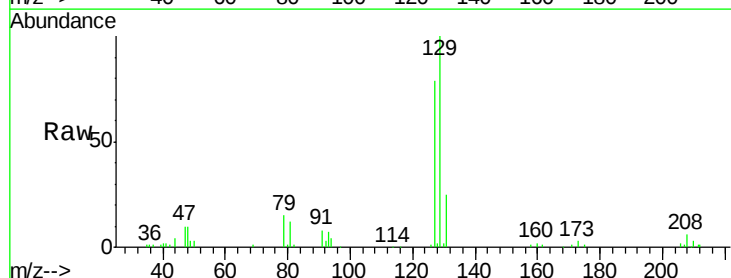
Instrument :
MSVOA_F
ClientSampleId :
VF0215SBSD01

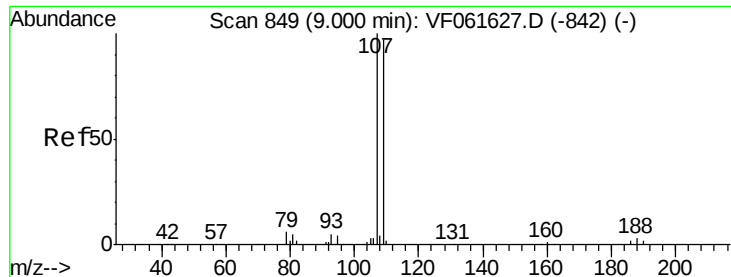
Tot Ion: 43 Resp: 128596
Ion Ratio Lower Upper
43 100
58 57.8 28.5 85.5



#60
Dibromochloromethane
Concen: 20.153 ug/l
RT: 8.74 min Scan# 823
Delta R.T. 0.02 min
Lab File: VF061655.D
Acq: 15 Feb 2019 14:46

Tgt Ion: 129 Resp: 61218
Ion Ratio Lower Upper
129 100
127 78.6 37.8 113.4





#61

1,2-Dibromoethane

Concen: 19.896 ug/l

RT: 9.01 min Scan# 850

Delta R.T. 0.01 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

Instrument :

MSVOA_F

ClientSampleId :

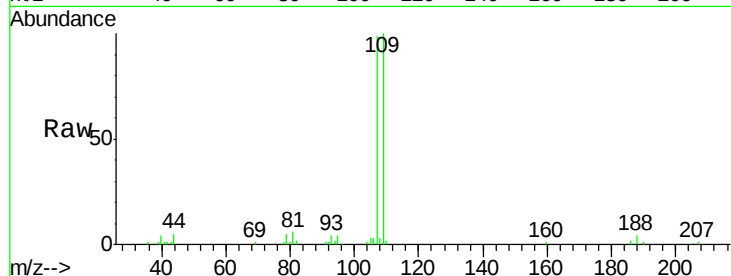
VF0215SBS01

Tot Ion:107 Resp: 47095

Ion Ratio Lower Upper

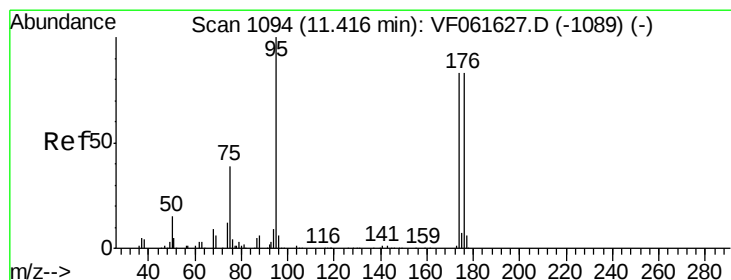
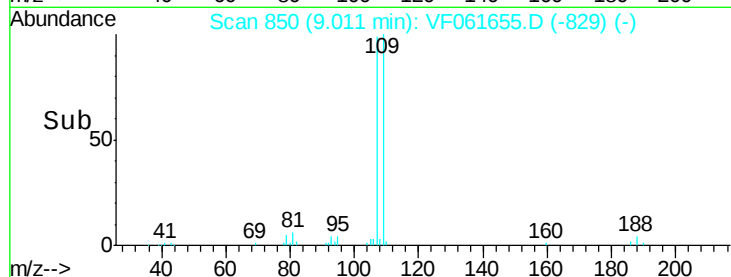
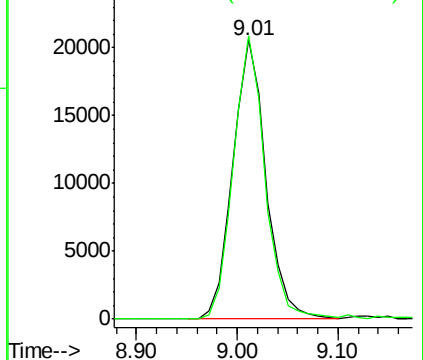
107 100

109 101.4 77.4 116.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 52.175 ug/l

RT: 11.43 min Scan# 1095

Delta R.T. 0.01 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

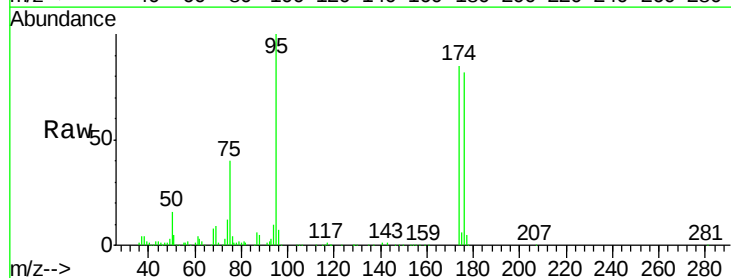
Tgt Ion: 95 Resp: 213018

Ion Ratio Lower Upper

95 100

174 85.3 0.0 165.8

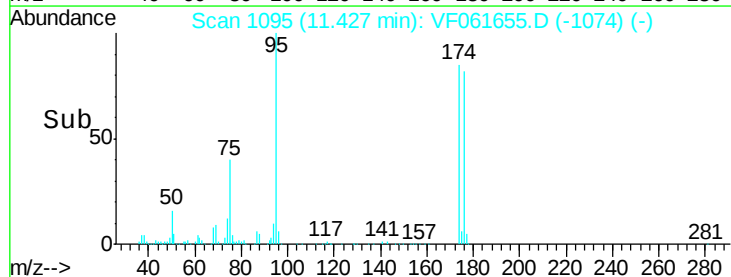
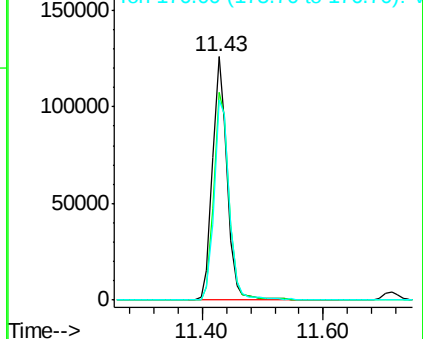
176 82.4 0.0 167.0

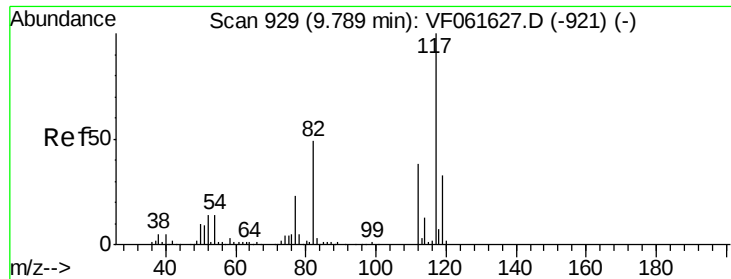


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

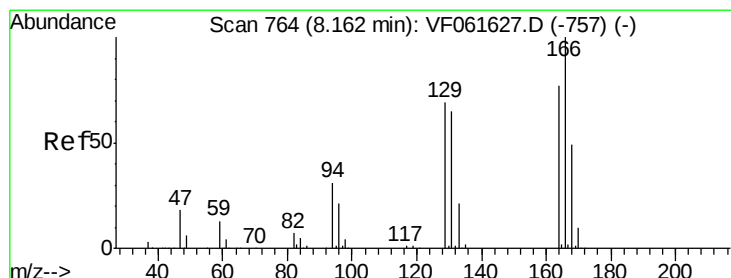
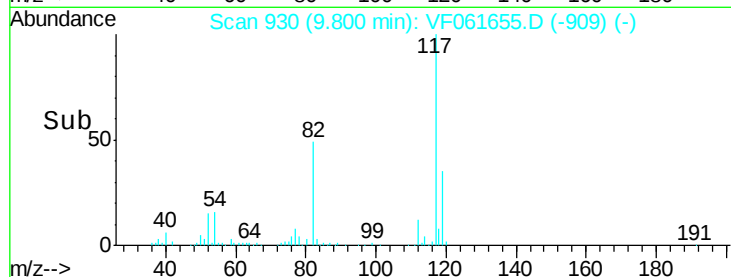
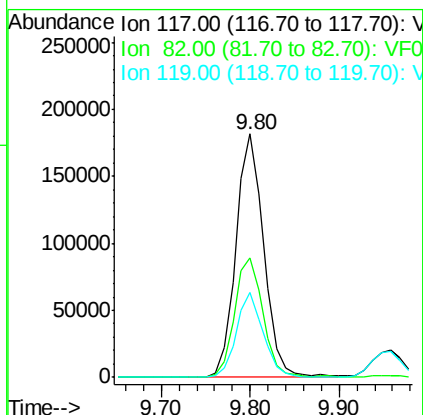
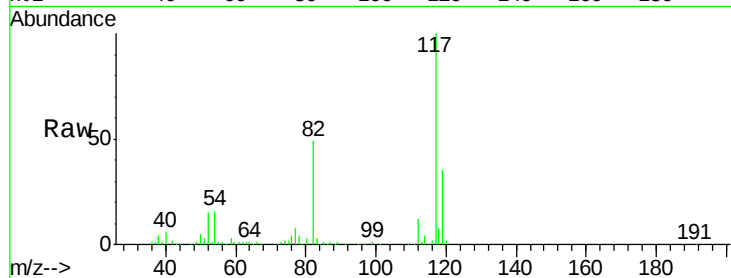




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.80 min Scan# 930
Delta R.T. 0.01 min
Lab File: VF061655.D
Acq: 15 Feb 2019 14:46

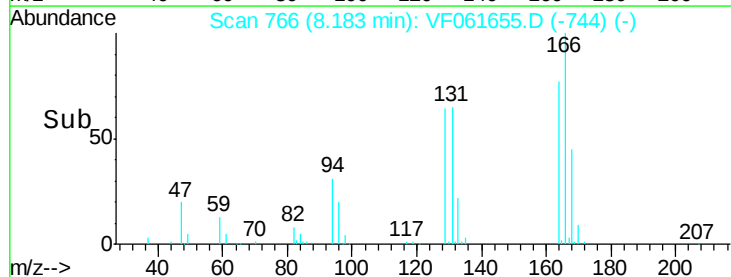
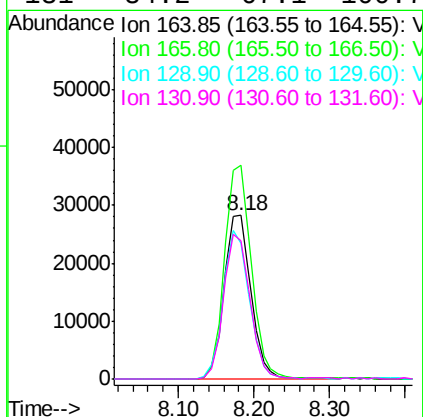
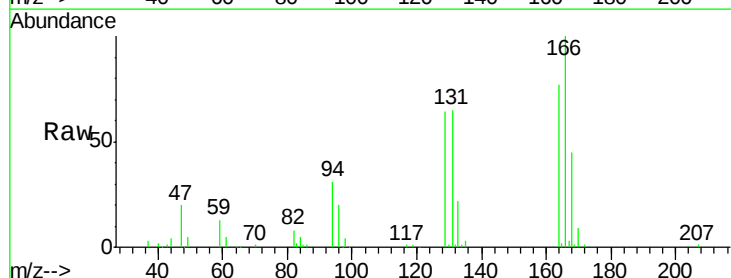
Instrument :
MSVOA_F
ClientSampleId :
VF0215SBS01

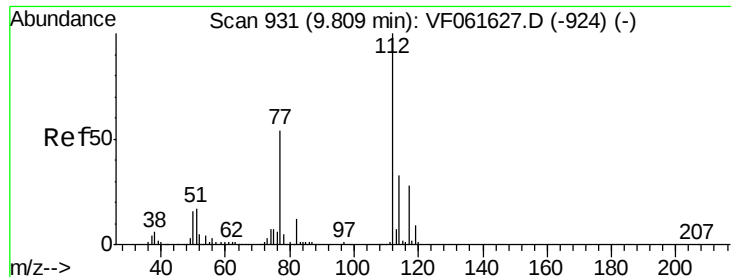
Tot Ion:117 Resp: 396388
Ion Ratio Lower Upper
117 100
82 48.9 39.3 58.9
119 35.0 26.6 40.0



#64
Tetrachloroethene
Concen: 21.539 ug/l
RT: 8.18 min Scan# 766
Delta R.T. 0.02 min
Lab File: VF061655.D
Acq: 15 Feb 2019 14:46

Tgt Ion:164 Resp: 69787
Ion Ratio Lower Upper
164 100
166 130.5 103.9 155.9
129 82.9 71.3 106.9
131 84.2 67.1 100.7





#65

Chlorobenzene

Concen: 20.563 ug/l

RT: 9.82 min Scan# 932

Delta R.T. 0.01 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

Instrument :

MSVOA_F

ClientSampleId :

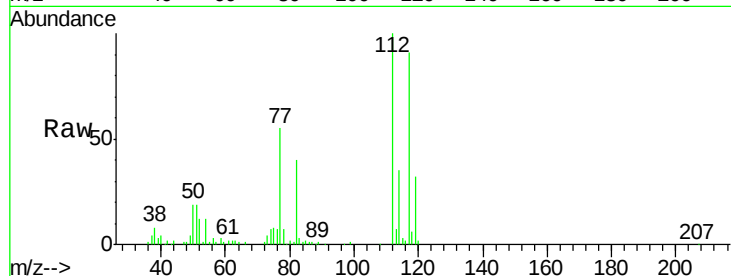
VF0215SBS01

Tot Ion:112 Resp: 165401

Ion Ratio Lower Upper

112 100

114 34.5 26.2 39.2



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

80000

60000

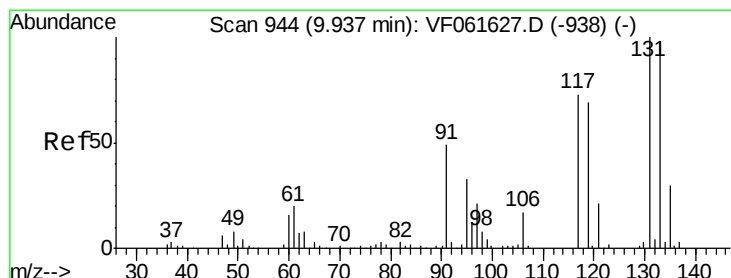
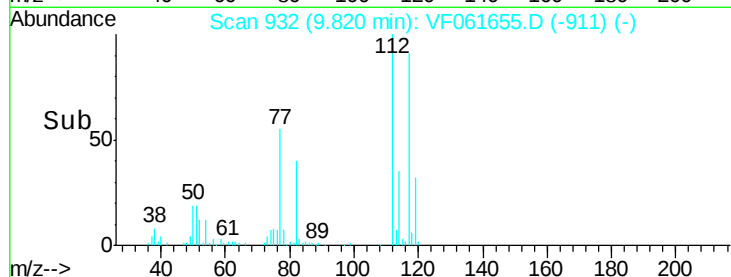
40000

20000

0

9.70 9.80 9.90 10.00

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 20.552 ug/l

RT: 9.96 min Scan# 946

Delta R.T. 0.02 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

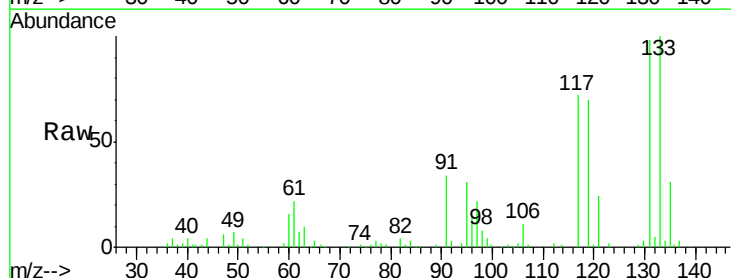
Tgt Ion:131 Resp: 64778

Ion Ratio Lower Upper

131 100

133 101.6 48.9 146.6

119 71.2 34.8 104.3



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

30000

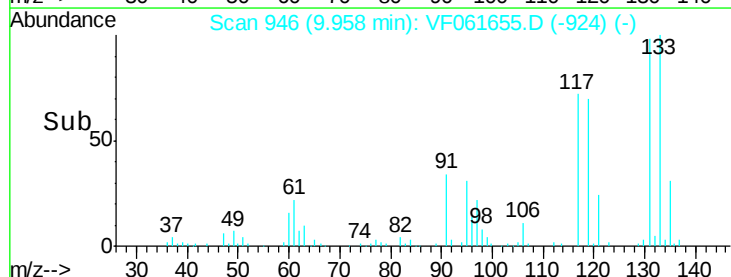
20000

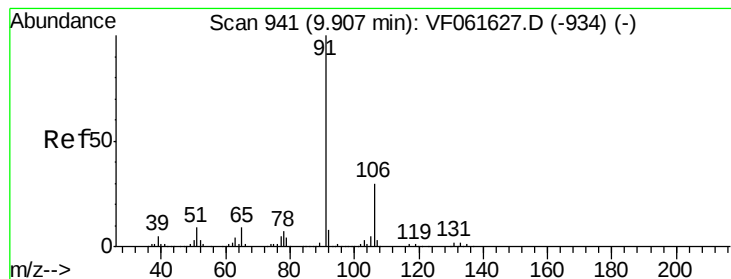
10000

0

9.90 9.96 10.00

Time-->





#67

Ethyl Benzene

Concen: 21.985 ug/l

RT: 9.93 min Scan# 943

Delta R.T. 0.02 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

Instrument :

MSVOA_F

ClientSampleId :

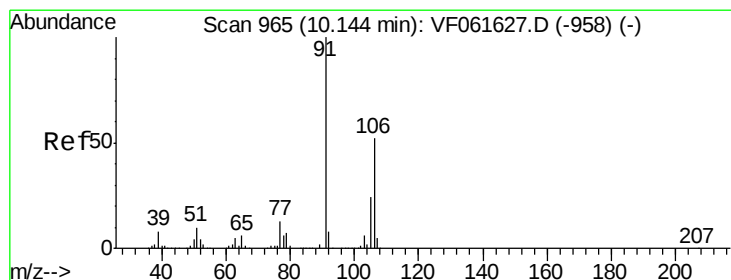
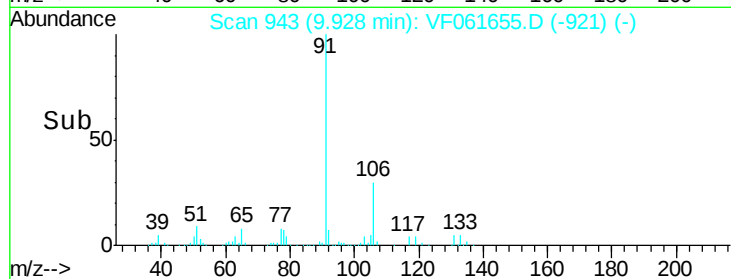
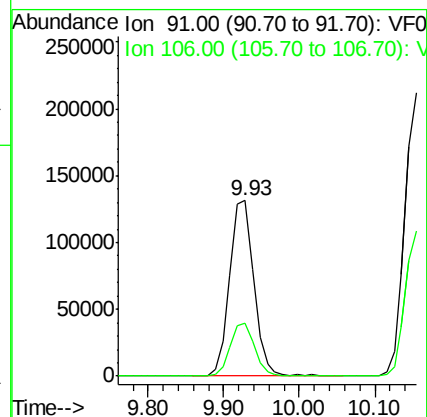
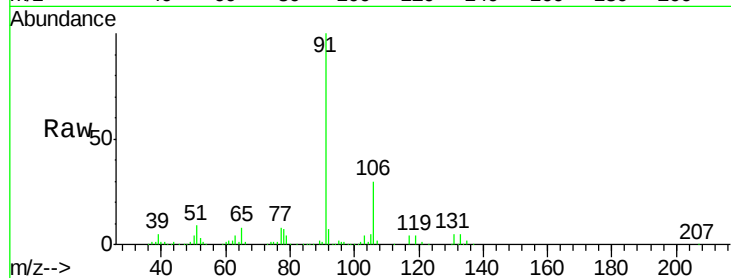
VF0215SBSD01

Tot Ion: 91 Resp: 294077

Ion Ratio Lower Upper

91 100

106 30.5 24.1 36.1



#68

m/p-Xylenes

Concen: 44.179 ug/l

RT: 10.15 min Scan# 966

Delta R.T. 0.01 min

Lab File: VF061655.D

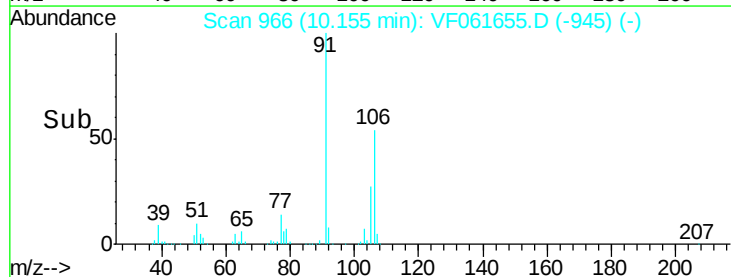
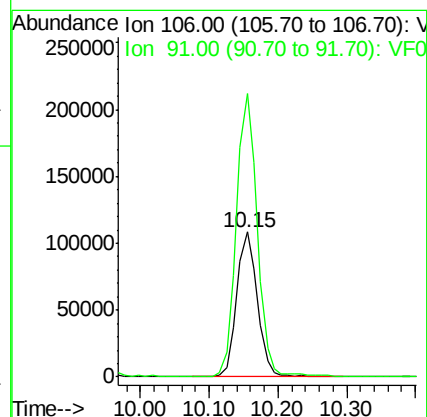
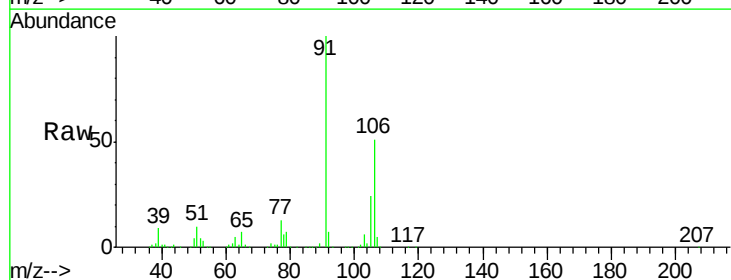
Acq: 15 Feb 2019 14:46

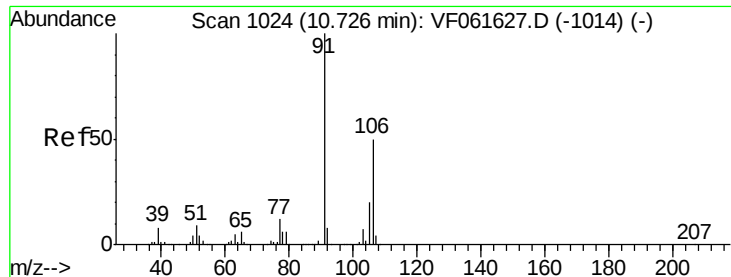
Tgt Ion: 106 Resp: 226166

Ion Ratio Lower Upper

106 100

91 195.7 153.0 229.6

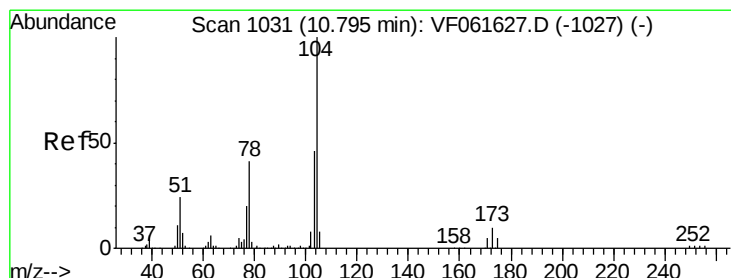
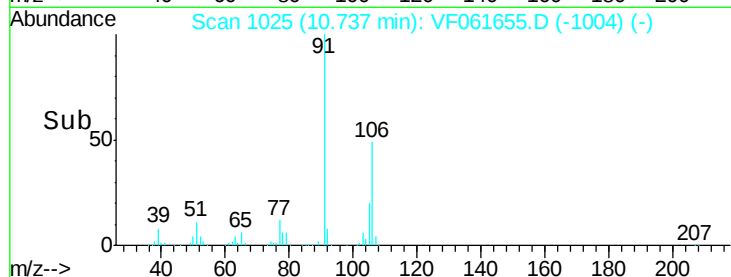
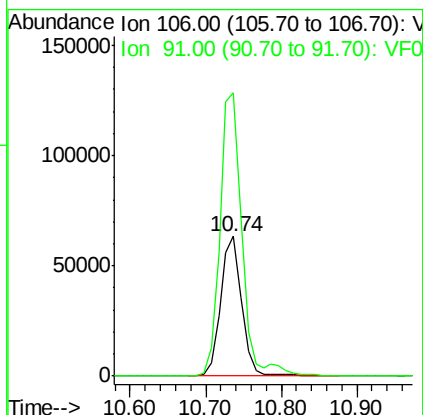
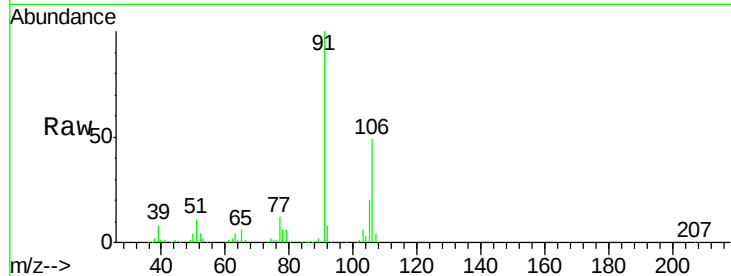




#69
o-Xylene
Concen: 22.578 ug/l
RT: 10.74 min Scan# 1025
Delta R.T. 0.01 min
Lab File: VF061655.D
Acq: 15 Feb 2019 14:46

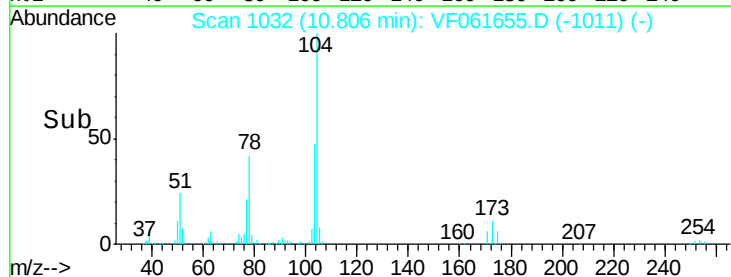
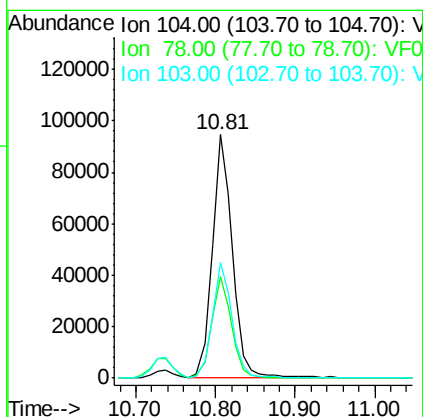
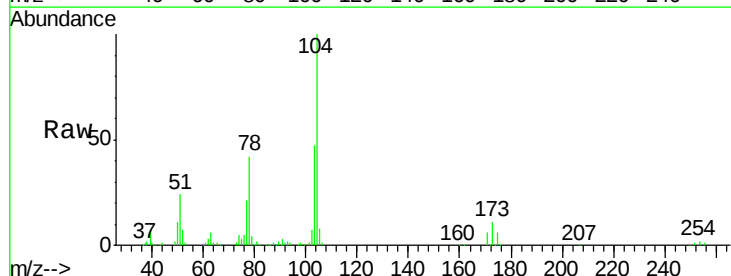
Instrument :
MSVOA_F
ClientSampleId :
VF0215SBSD01

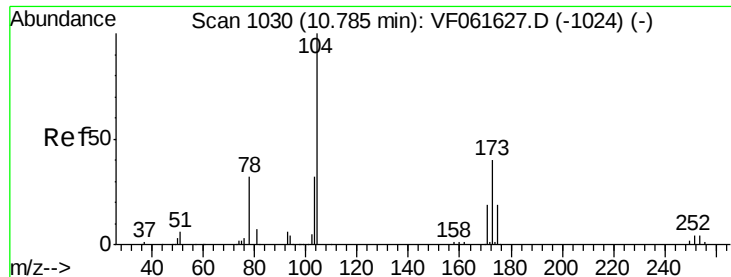
Tot Ion:106 Resp: 123334
Ion Ratio Lower Upper
106 100
91 203.0 100.1 300.1



#70
Styrene
Concen: 21.751 ug/l
RT: 10.81 min Scan# 1032
Delta R.T. 0.01 min
Lab File: VF061655.D
Acq: 15 Feb 2019 14:46

Tgt Ion:104 Resp: 168085
Ion Ratio Lower Upper
104 100
78 41.8 33.2 49.8
103 47.3 37.2 55.8





#71

Bromoform

Concen: 20.369 ug/l

RT: 10.80 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

Instrument :

MSVOA_F

ClientSampleId :

VF0215SBSD01

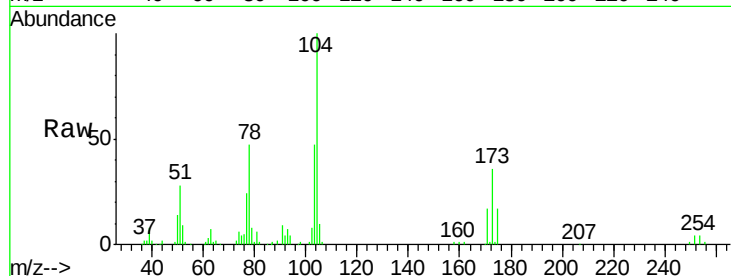
Tot Ion:173 Resp: 34862

Ion Ratio Lower Upper

173 100

175 46.2 24.0 72.0

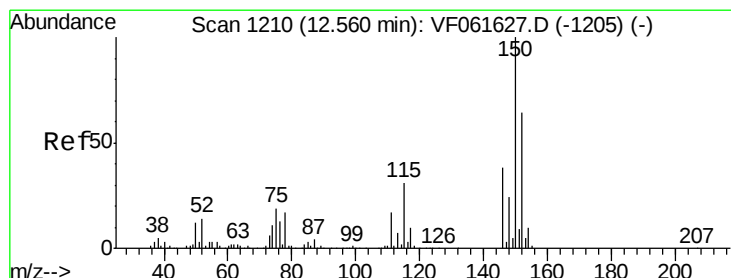
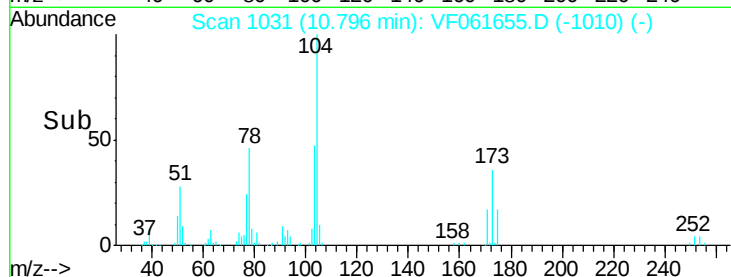
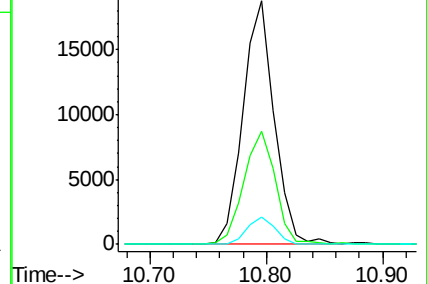
254 11.0 8.2 12.2



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: 12.57 min Scan# 1211

Delta R.T. 0.01 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

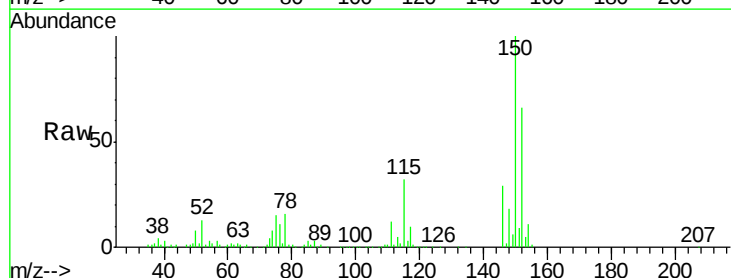
Tgt Ion:152 Resp: 234401

Ion Ratio Lower Upper

152 100

115 48.4 24.3 72.8

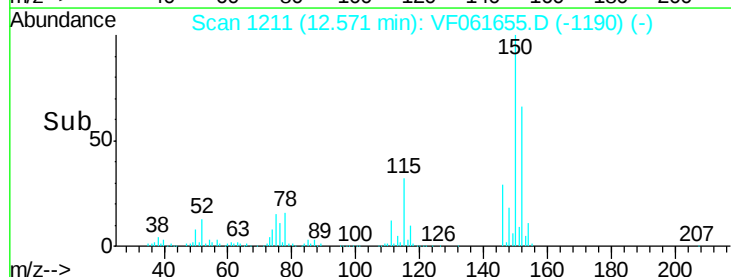
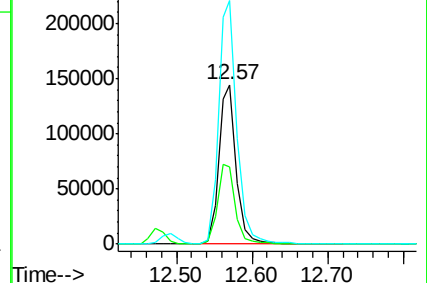
150 152.5 0.0 312.0

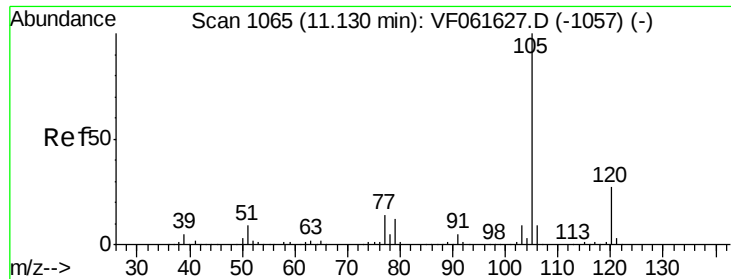


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 20.085 ug/l

RT: 11.14 min Scan# 1066

Delta R.T. 0.01 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

Instrument :

MSVOA_F

ClientSampleId :

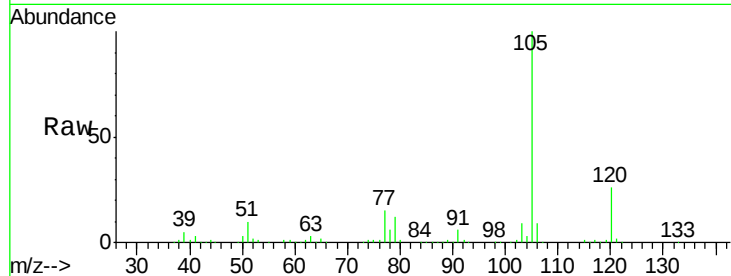
VF0215SBSD01

Tot Ion:105 Resp: 335190

Ion Ratio Lower Upper

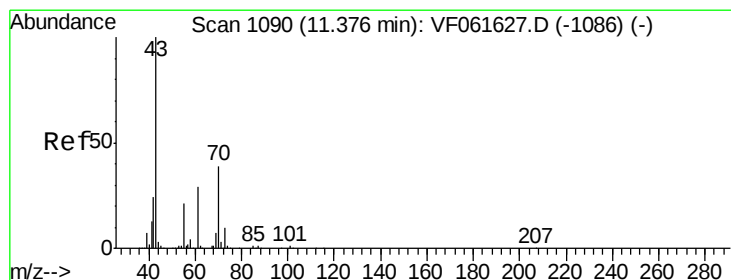
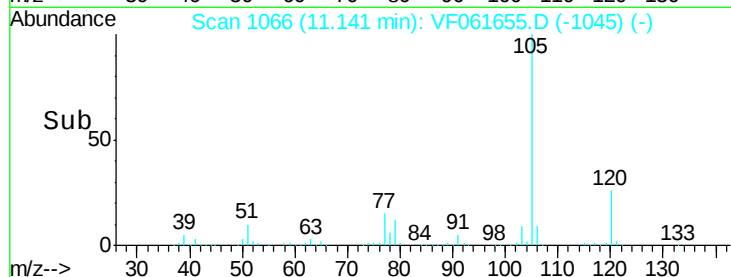
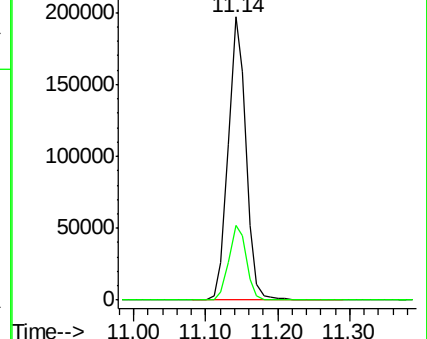
105 100

120 26.4 13.4 40.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 19.319 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

Tgt Ion: 43 Resp: 77387

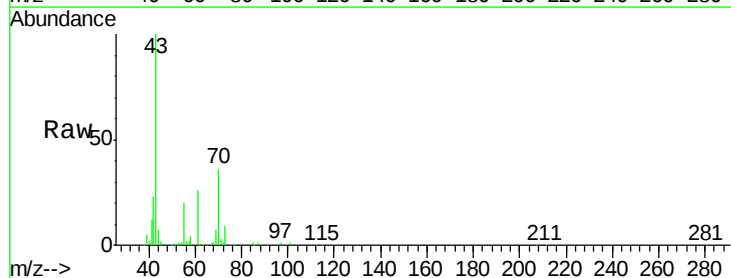
Ion Ratio Lower Upper

43 100

70 36.3 31.5 47.3

55 20.2 16.7 25.1

61 26.0 23.0 34.6

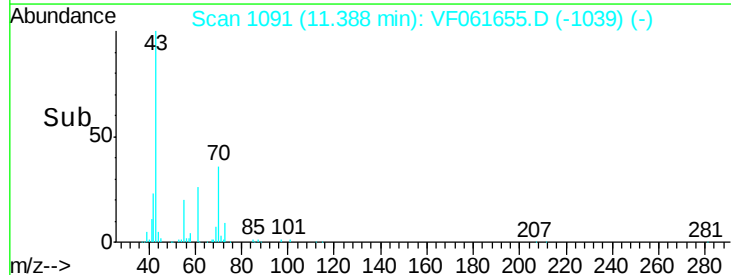
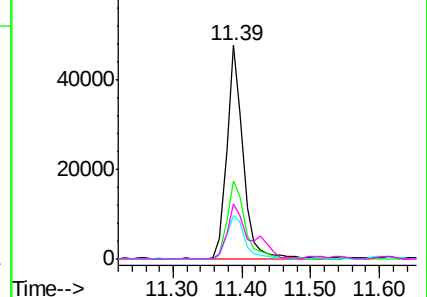


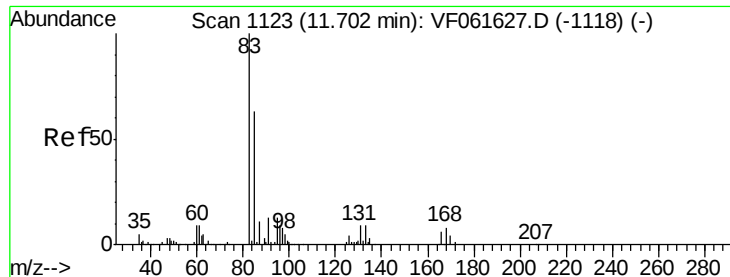
Abundance Ion 43.00 (42.70 to 43.70): VF0

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





#75

1,1,2,2-Tetrachloroethane

Concen: 18.988 ug/l

RT: 11.71 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

Instrument :

MSVOA_F

ClientSampleId :

VF0215SBS01

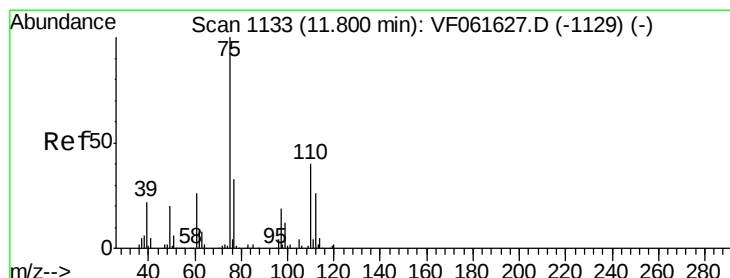
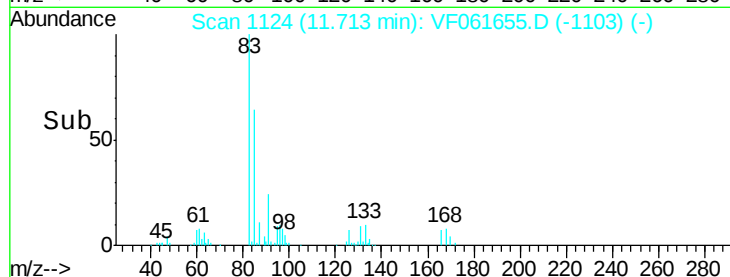
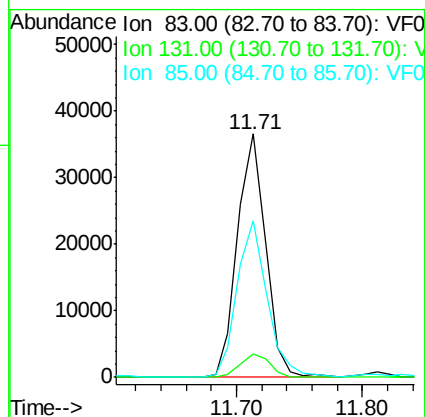
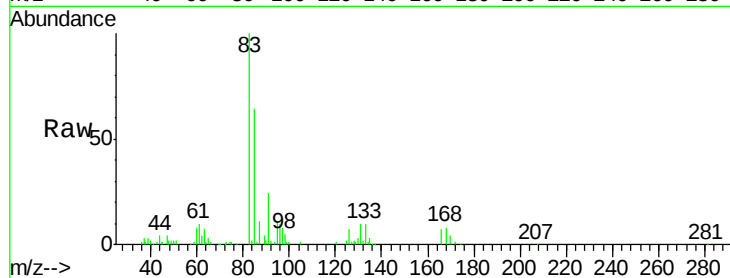
Tot Ion: 83 Resp: 56773

Ion Ratio Lower Upper

83 100

131 9.9 4.4 13.2

85 64.1 31.5 94.5



#76

1,2,3-Trichloropropane

Concen: 18.286 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. 0.01 min

Lab File: VF061655.D

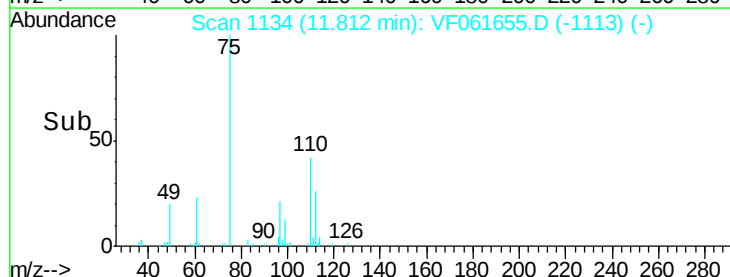
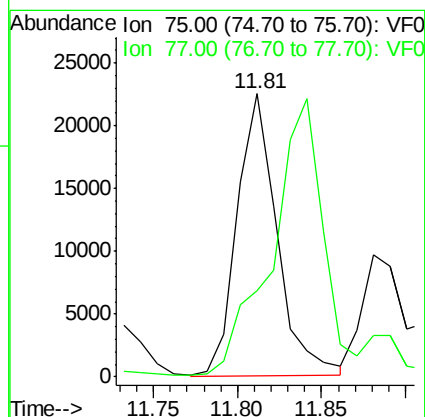
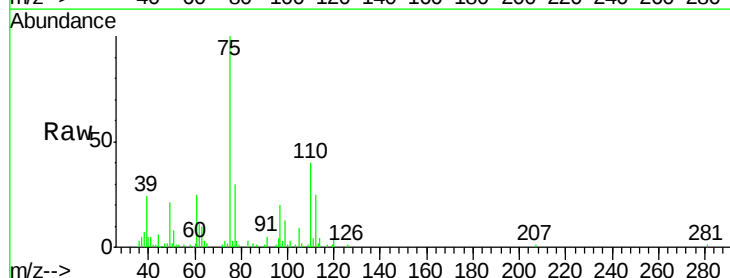
Acq: 15 Feb 2019 14:46

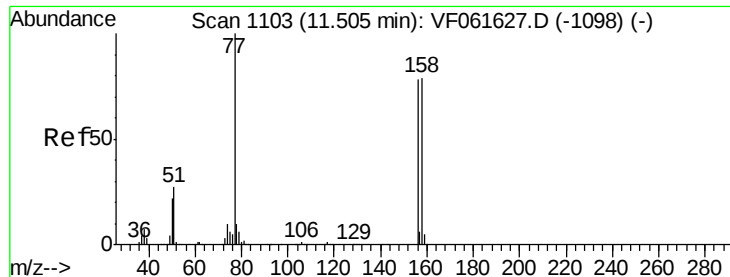
Tgt Ion: 75 Resp: 37172

Ion Ratio Lower Upper

75 100

77 30.5 16.6 49.7





#77

Bromobenzene

Concen: 20.573 ug/l

RT: 11.52 min Scan# 1104

Delta R.T. 0.01 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

Instrument :

MSVOA_F

ClientSampleId :

VF0215SBS01

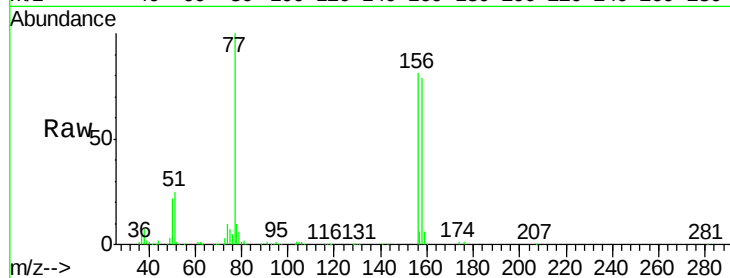
Tot Ion:156 Resp: 84821

Ion Ratio Lower Upper

156 100

77 123.8 64.3 192.7

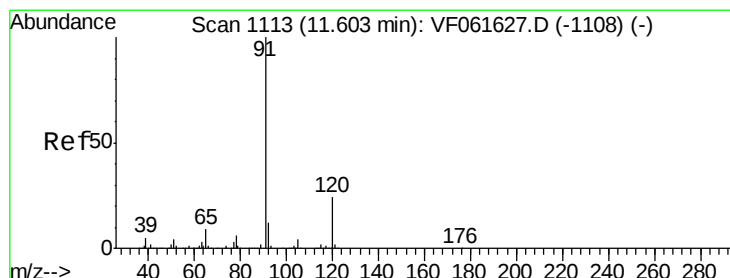
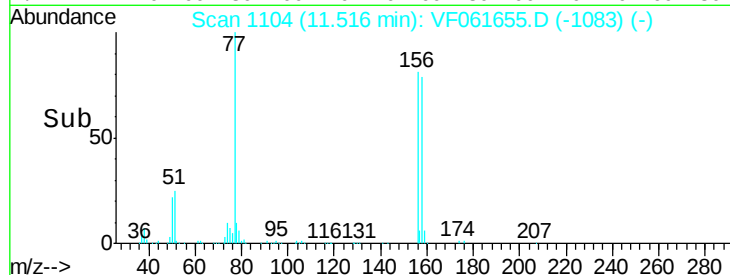
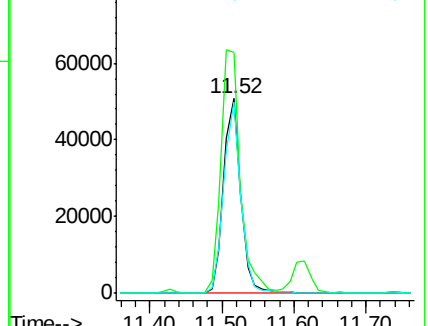
158 98.0 50.9 152.7



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 20.535 ug/l

RT: 11.61 min Scan# 1114

Delta R.T. 0.01 min

Lab File: VF061655.D

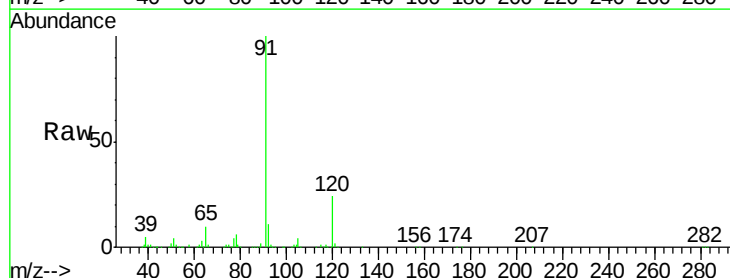
Acq: 15 Feb 2019 14:46

Tgt Ion: 91 Resp: 393270

Ion Ratio Lower Upper

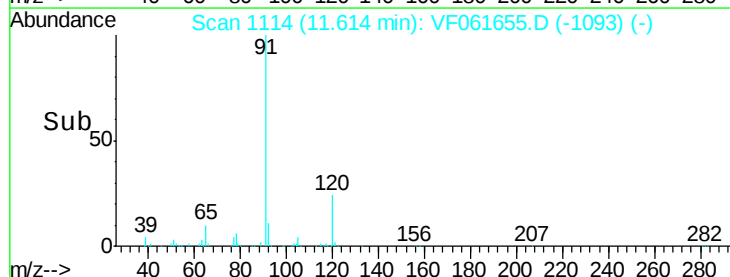
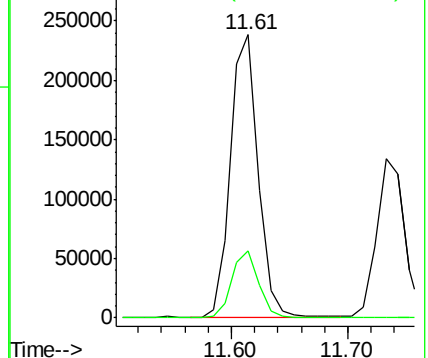
91 100

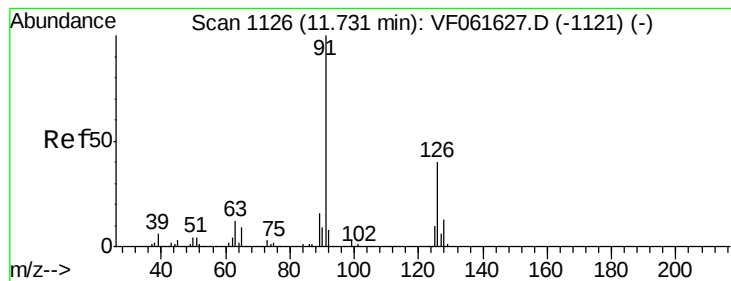
120 23.6 12.1 36.3



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.408 ug/l

RT: 11.73 min Scan# 1126

Delta R.T. 0.00 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

Instrument :

MSVOA_F

ClientSampleId :

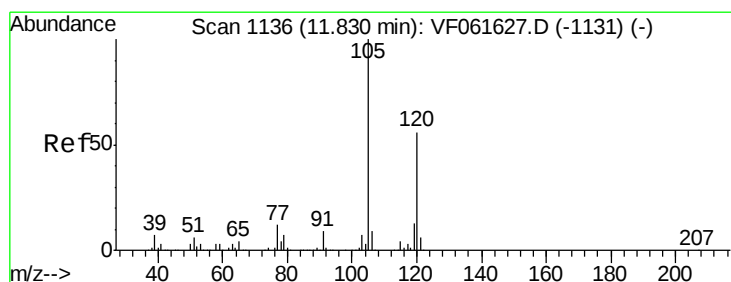
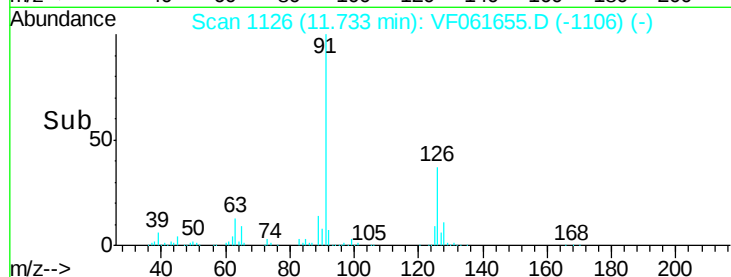
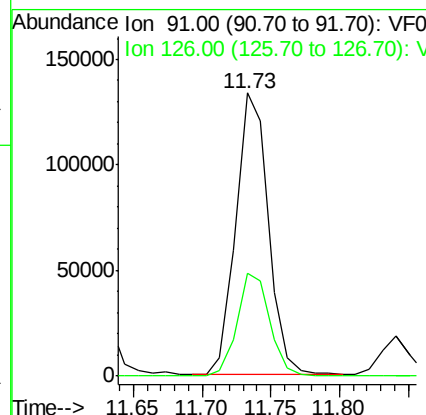
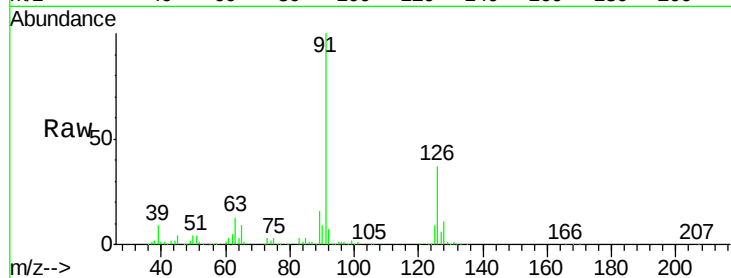
VF0215SBSD01

Tot Ion: 91 Resp: 218886

Ion Ratio Lower Upper

91 100

126 36.5 19.8 59.4



#80

1,3,5-Trimethylbenzene

Concen: 20.485 ug/l

RT: 11.84 min Scan# 1137

Delta R.T. 0.01 min

Lab File: VF061655.D

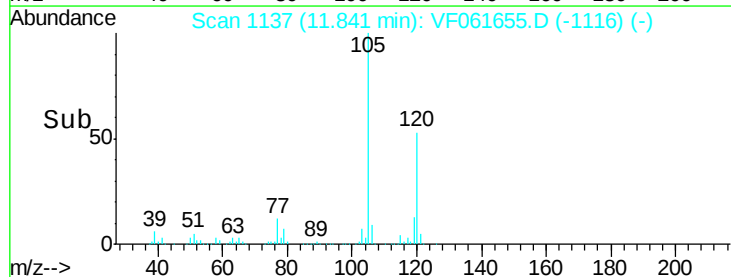
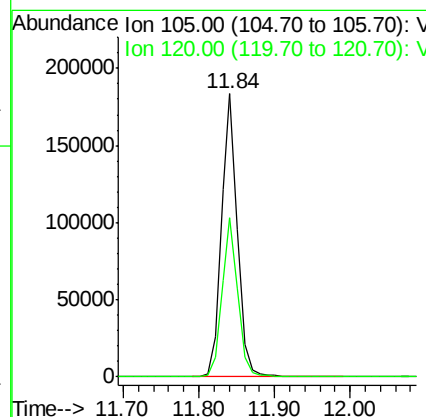
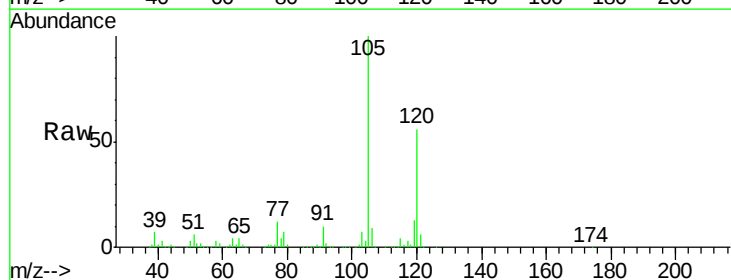
Acq: 15 Feb 2019 14:46

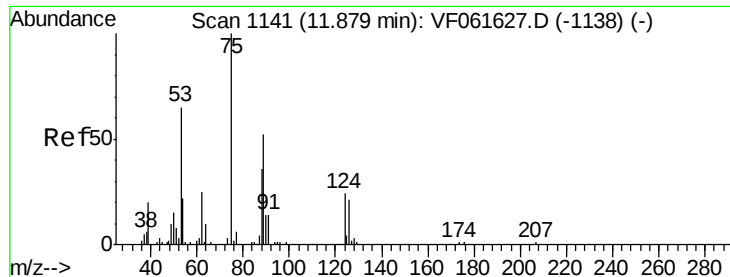
Tgt Ion:105 Resp: 273238

Ion Ratio Lower Upper

105 100

120 56.4 27.9 83.6





#81

trans-1,4-Dichloro-2-butene

Concen: 15.845 ug/l m

RT: 11.88 min Scan# 1141

Delta R.T. 0.00 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

Instrument :

MSVOA_F

ClientSampleId :

VF0215SBS01

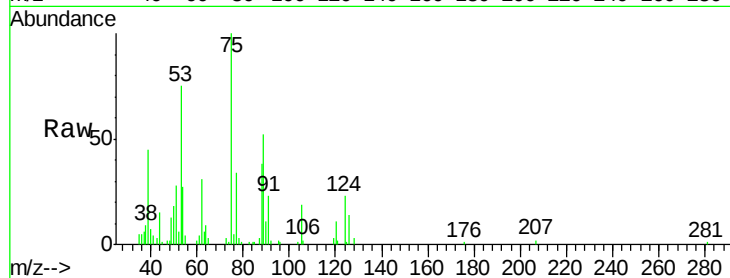
Tot Ion: 75 Resp: 15442

Ion Ratio Lower Upper

75 100

53 75.1 53.7 80.5

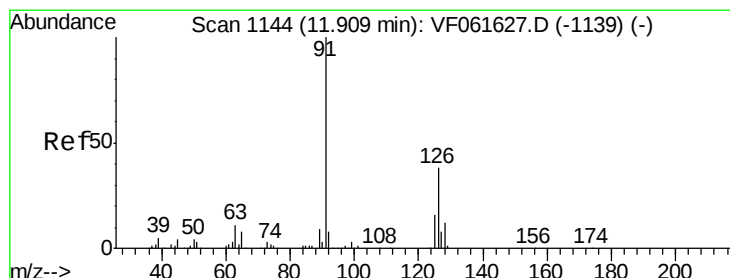
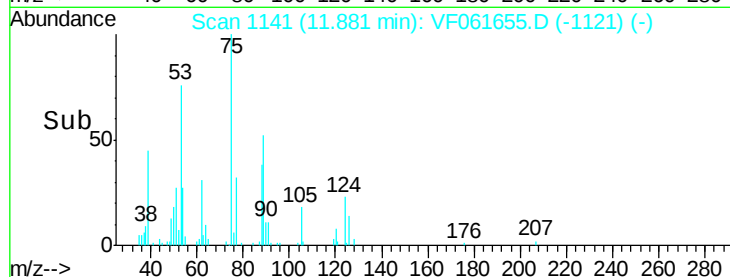
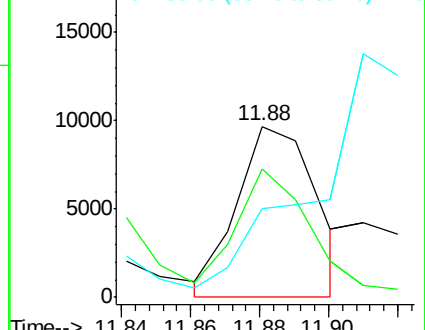
89 51.5 41.6 62.4



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 19.831 ug/l

RT: 11.92 min Scan# 1145

Delta R.T. 0.01 min

Lab File: VF061655.D

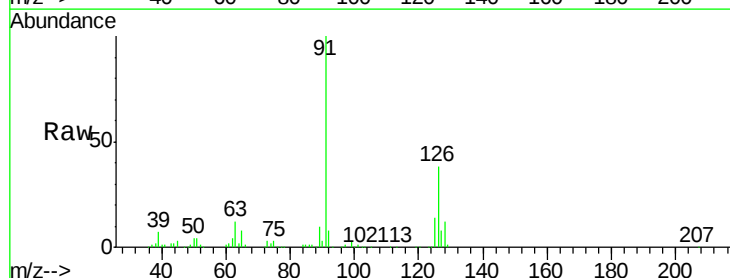
Acq: 15 Feb 2019 14:46

Tgt Ion: 91 Resp: 220766

Ion Ratio Lower Upper

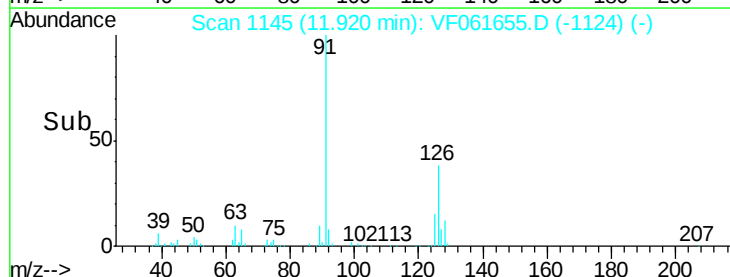
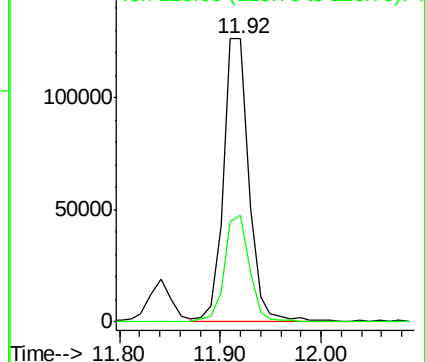
91 100

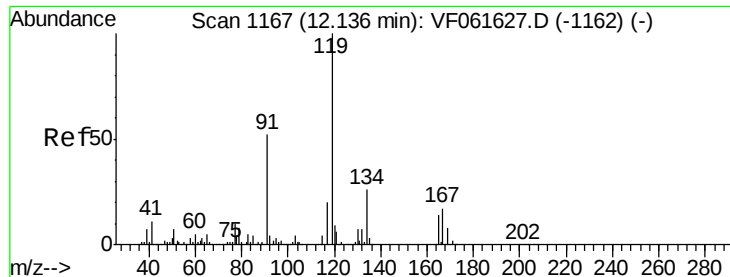
126 37.6 19.1 57.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V





#83

tert-Butylbenzene

Concen: 20.144 ug/l

RT: 12.15 min Scan# 1168

Delta R.T. 0.01 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

Instrument :

MSVOA_F

ClientSampleId :

VF0215SBS01

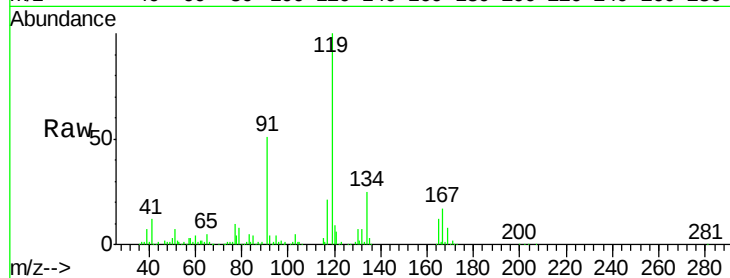
Tot Ion:119 Resp: 297603

Ion Ratio Lower Upper

119 100

91 51.2 26.3 78.8

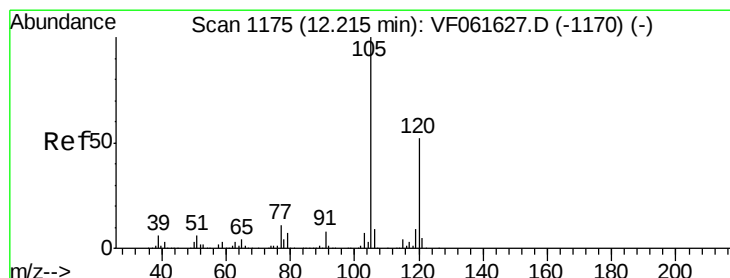
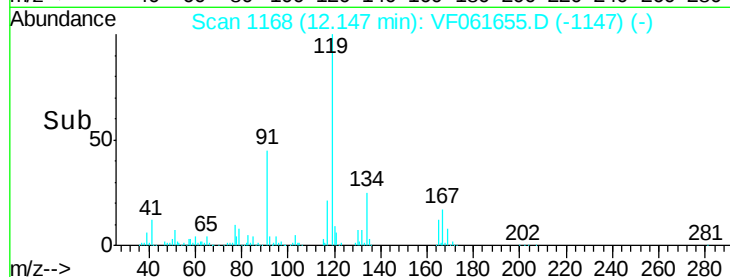
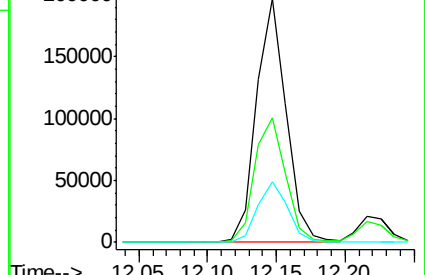
134 24.9 12.9 38.7



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 19.984 ug/l

RT: 12.22 min Scan# 1175

Delta R.T. 0.00 min

Lab File: VF061655.D

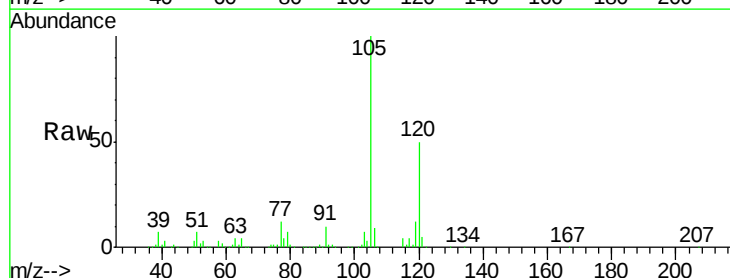
Acq: 15 Feb 2019 14:46

Tgt Ion:105 Resp: 264822

Ion Ratio Lower Upper

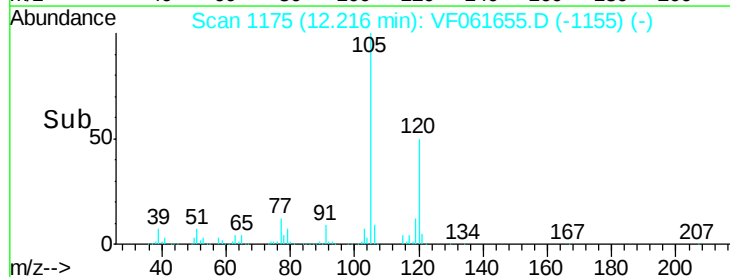
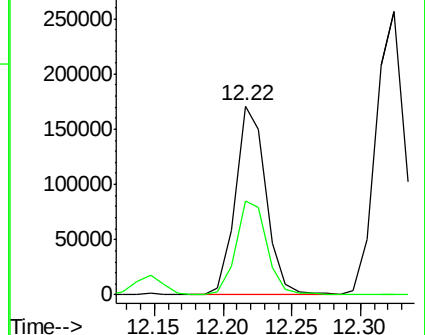
105 100

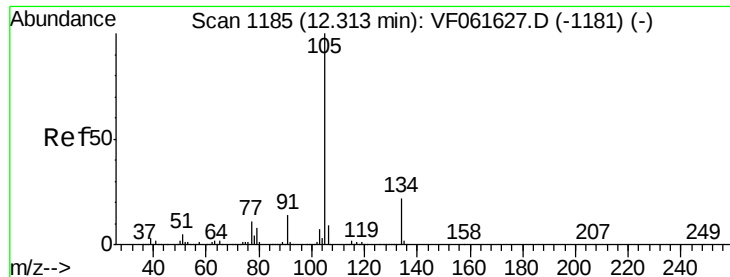
120 49.6 26.1 78.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

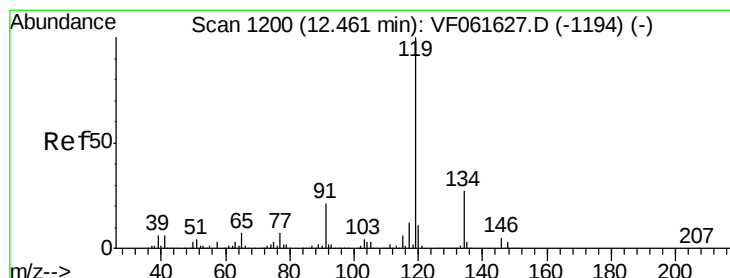
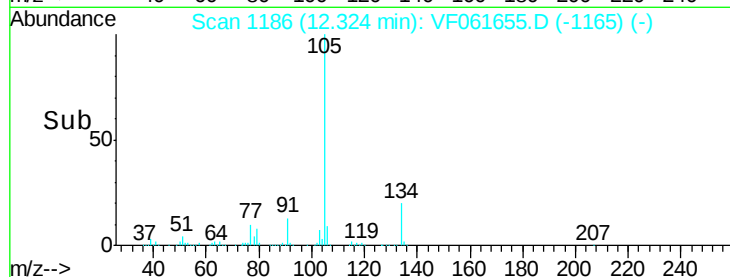
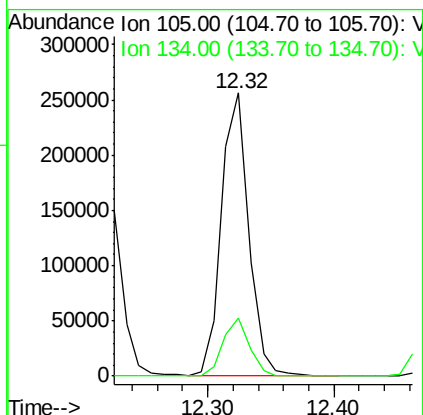
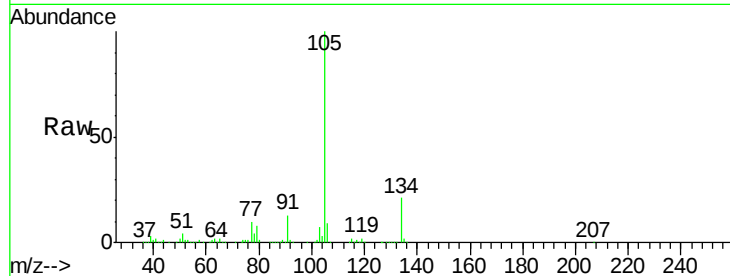




#85
 sec-Butylbenzene
 Concen: 20.085 ug/l
 RT: 12.32 min Scan# 1186
 Delta R.T. 0.01 min
 Lab File: VF061655.D
 Acq: 15 Feb 2019 14:46

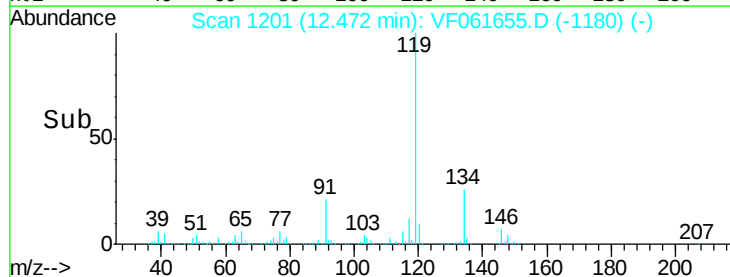
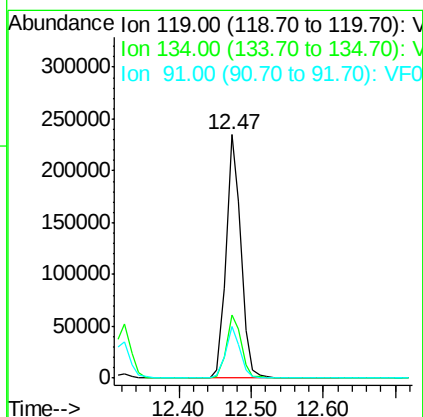
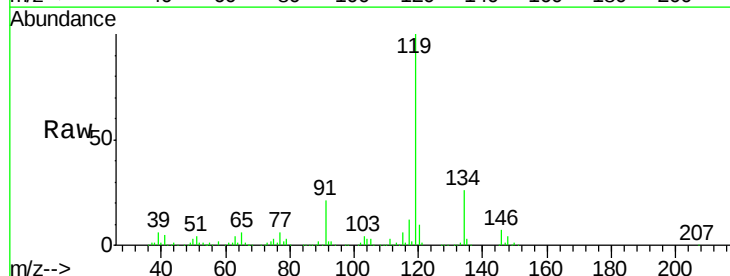
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0215SBS01

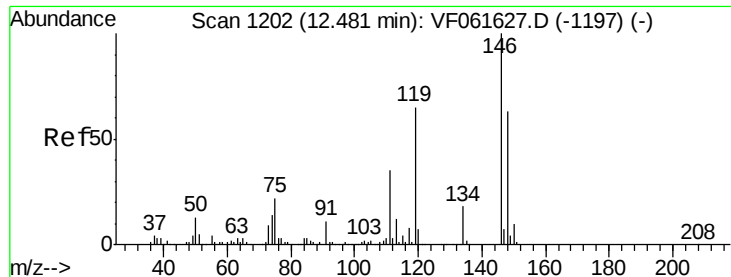
Tot Ion:105 Resp: 383721
 Ion Ratio Lower Upper
 105 100
 134 20.6 10.8 32.4



#86
 p-Isopropyltoluene
 Concen: 20.842 ug/l
 RT: 12.47 min Scan# 1201
 Delta R.T. 0.01 min
 Lab File: VF061655.D
 Acq: 15 Feb 2019 14:46

Tgt Ion:119 Resp: 334174
 Ion Ratio Lower Upper
 119 100
 134 25.8 13.7 41.1
 91 21.0 10.8 32.4





#87

1,3-Dichlorobenzene

Concen: 19.997 ug/l

RT: 12.49 min Scan# 1203

Delta R.T. 0.01 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

Instrument :

MSVOA_F

ClientSampleId :

VF0215SBS01

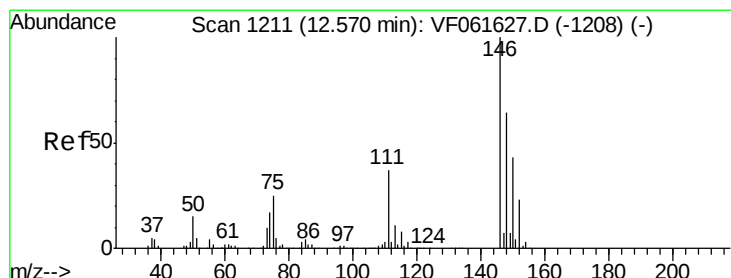
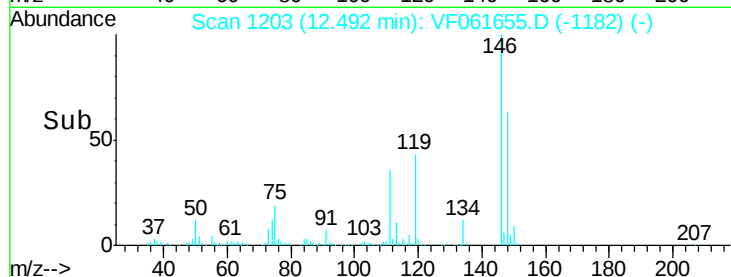
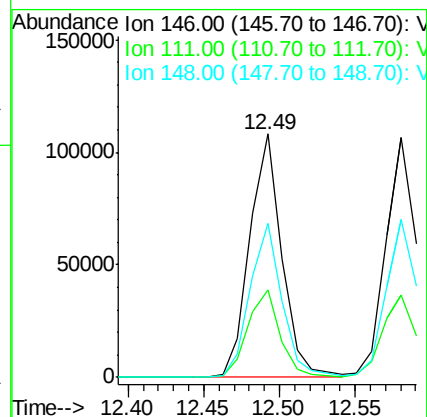
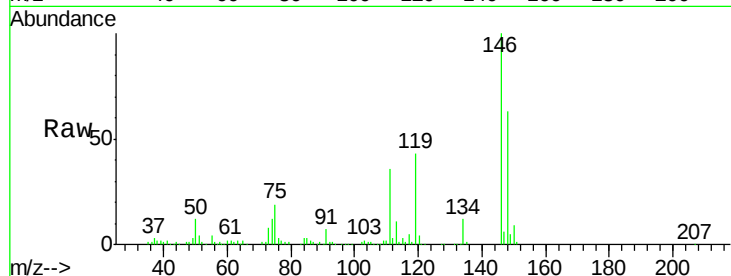
Tot Ion:146 Resp: 160731

Ion Ratio Lower Upper

146 100

111 35.8 17.5 52.6

148 63.2 31.4 94.3



#88

1,4-Dichlorobenzene

Concen: 20.514 ug/l

RT: 12.58 min Scan# 1212

Delta R.T. 0.01 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

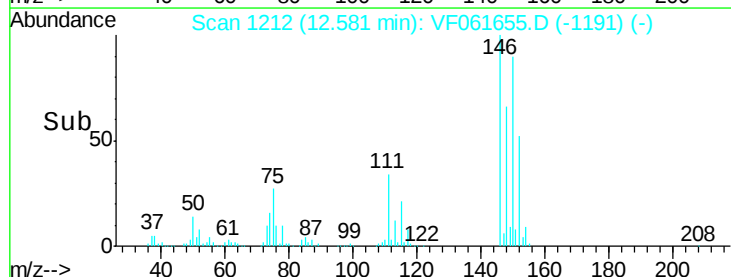
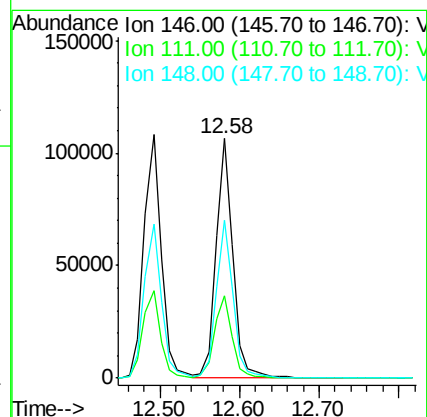
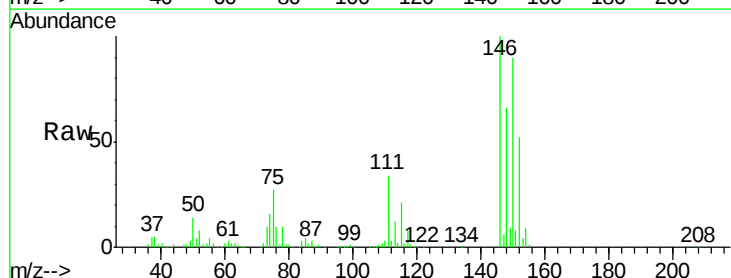
Tgt Ion:146 Resp: 158571

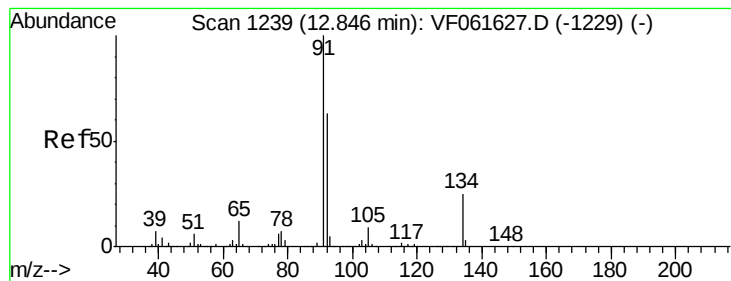
Ion Ratio Lower Upper

146 100

111 34.3 18.4 55.4

148 65.8 32.2 96.6





#89

n-Butylbenzene

Concen: 21.519 ug/l

RT: 12.86 min Scan# 1240

Delta R.T. 0.01 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

Instrument :

MSVOA_F

ClientSampleId :

VF0215SBSD01

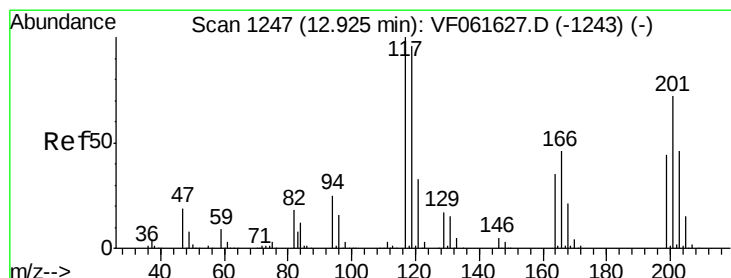
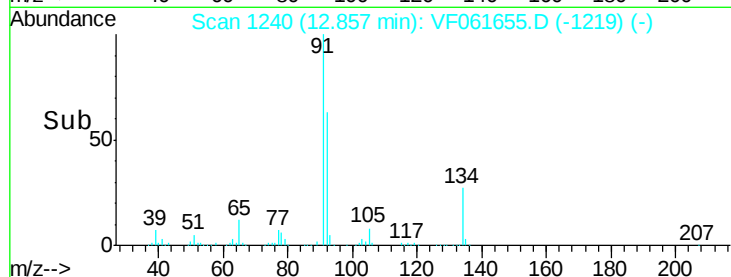
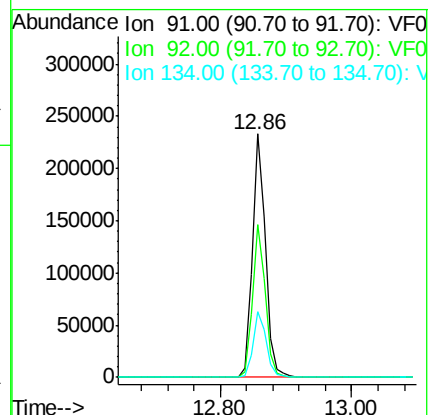
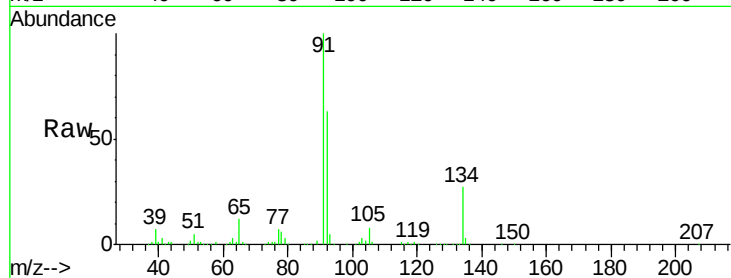
Tot Ion: 91 Resp: 325807

Ion Ratio Lower Upper

91 100

92 62.8 31.4 94.3

134 27.0 12.3 36.9



#90

Hexachloroethane

Concen: 19.752 ug/l

RT: 12.94 min Scan# 1248

Delta R.T. 0.01 min

Lab File: VF061655.D

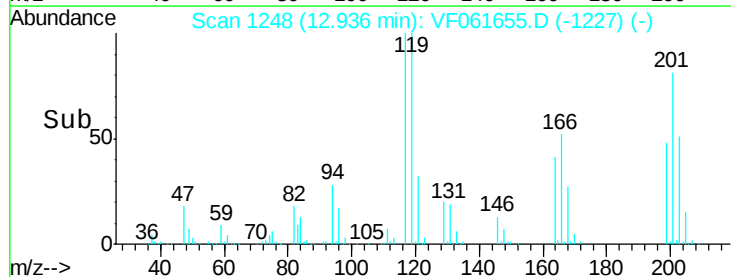
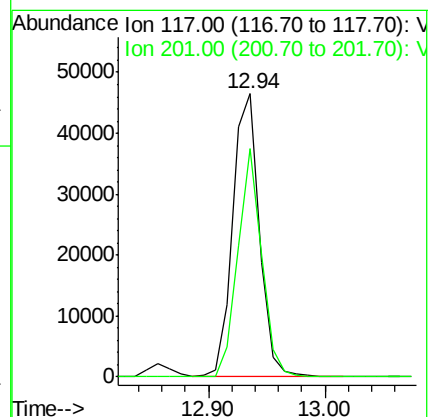
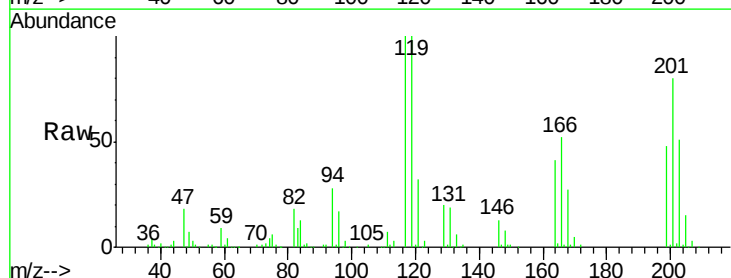
Acq: 15 Feb 2019 14:46

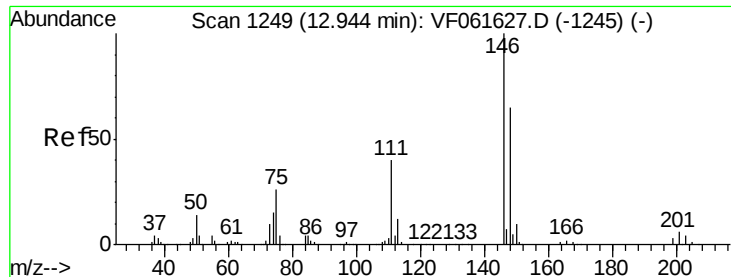
Tgt Ion: 117 Resp: 73656

Ion Ratio Lower Upper

117 100

201 80.5 36.2 108.6





#91

1,2-Dichlorobenzene

Concen: 19.467 ug/l

RT: 12.96 min Scan# 1250

Delta R.T. 0.01 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

Instrument :

MSVOA_F

ClientSampleId :

VF0215SBS01

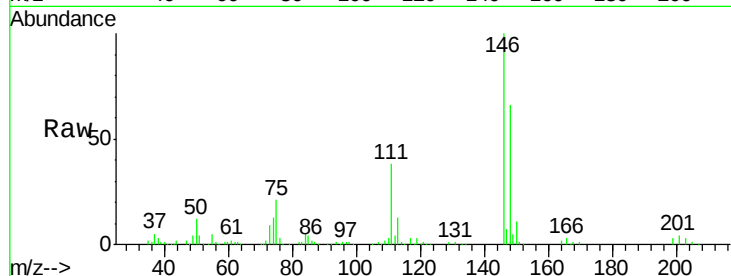
Tot Ion:146 Resp: 148830

Ion Ratio Lower Upper

146 100

111 38.4 20.2 60.5

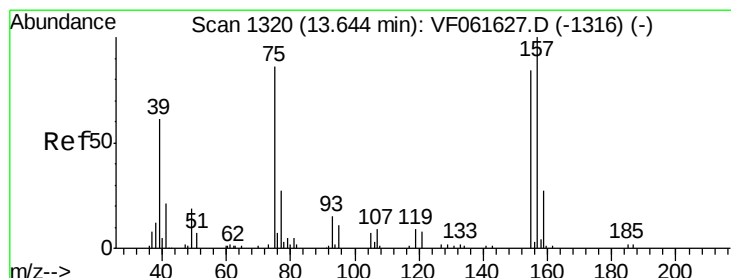
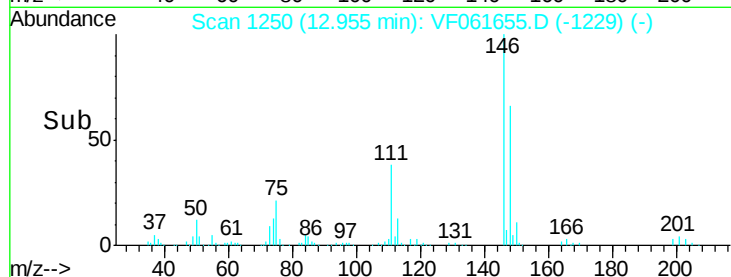
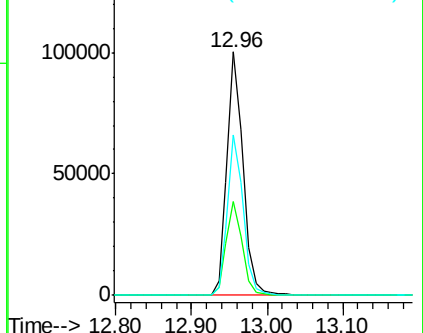
148 65.8 32.3 96.9



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 17.170 ug/l

RT: 13.66 min Scan# 1321

Delta R.T. 0.01 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

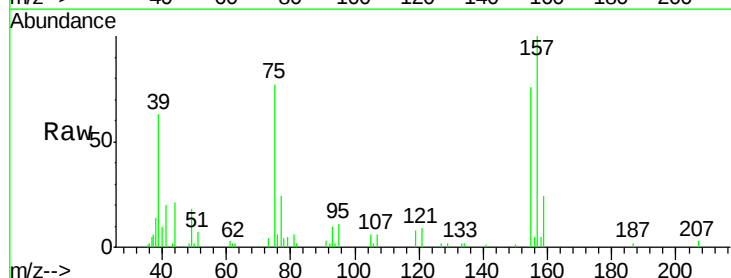
Tgt Ion: 75 Resp: 8139

Ion Ratio Lower Upper

75 100

155 98.3 48.9 146.8

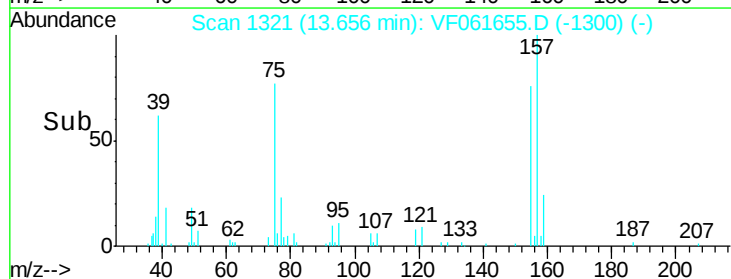
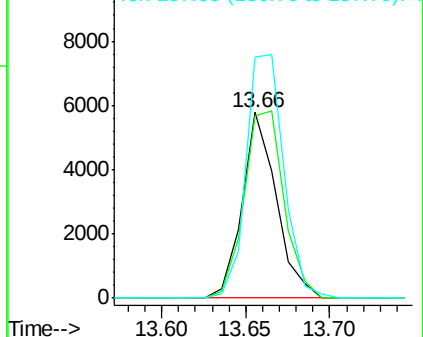
157 129.5 58.3 174.8

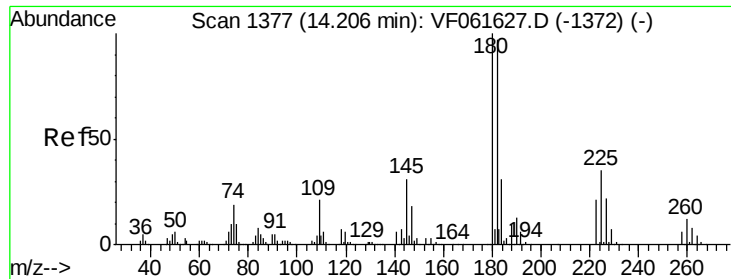


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

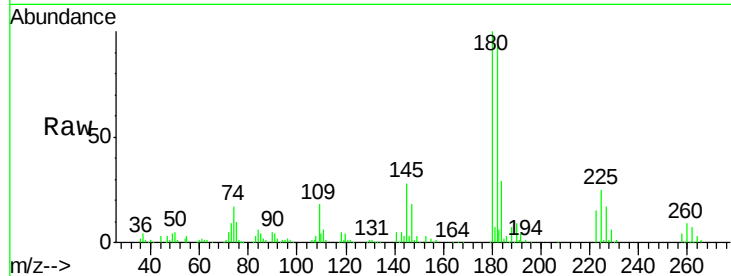




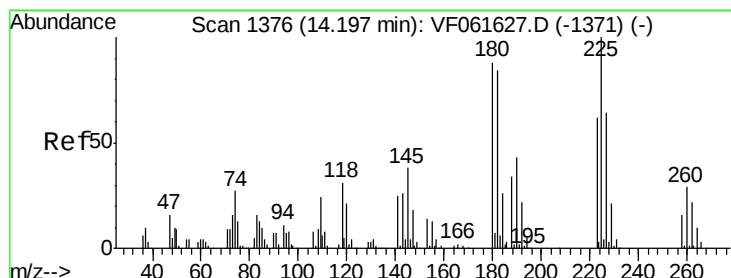
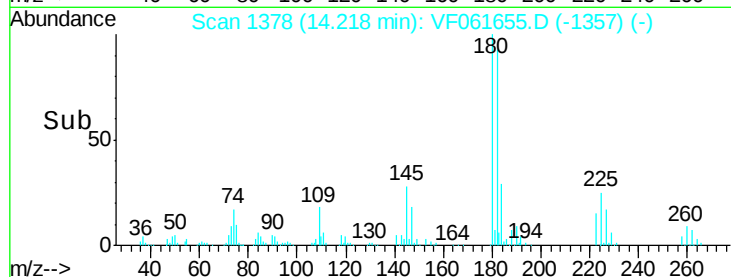
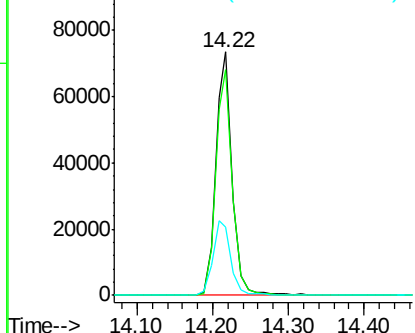
#93
 1,2,4-Trichlorobenzene
 Concen: 20.384 ug/l
 RT: 14.22 min Scan# 1378
 Delta R.T. 0.01 min
 Lab File: VF061655.D
 Acq: 15 Feb 2019 14:46

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0215SBS01

Tot Ion:180 Resp: 111699
 Ion Ratio Lower Upper
 180 100
 182 92.8 48.6 145.9
 145 28.3 15.3 45.9

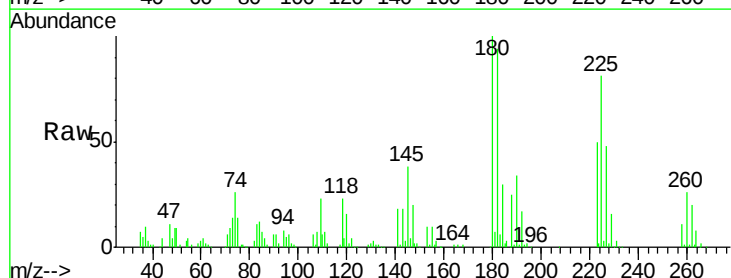


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

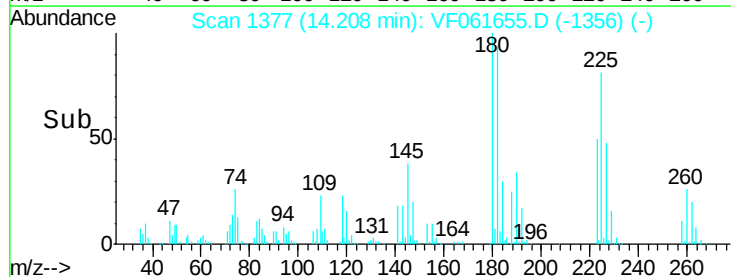
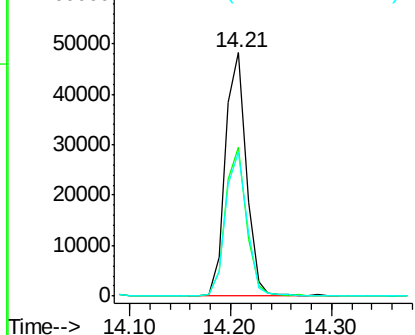


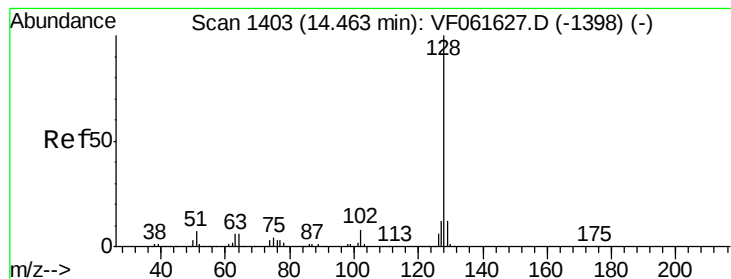
#94
 Hexachlorobutadiene
 Concen: 20.663 ug/l
 RT: 14.21 min Scan# 1377
 Delta R.T. 0.01 min
 Lab File: VF061655.D
 Acq: 15 Feb 2019 14:46

Tgt Ion:225 Resp: 69929
 Ion Ratio Lower Upper
 225 100
 223 61.3 30.9 92.7
 227 59.2 32.1 96.3



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: 17.565 ug/l

RT: 14.47 min Scan# 1404

Delta R.T. 0.01 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

Instrument :

MSVOA_F

ClientSampleId :

VF0215SBS01

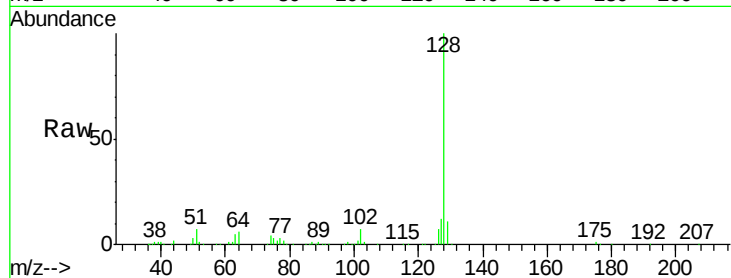
Tot Ion:128 Resp: 168407

Ion Ratio Lower Upper

128 100

127 12.2 9.8 14.6

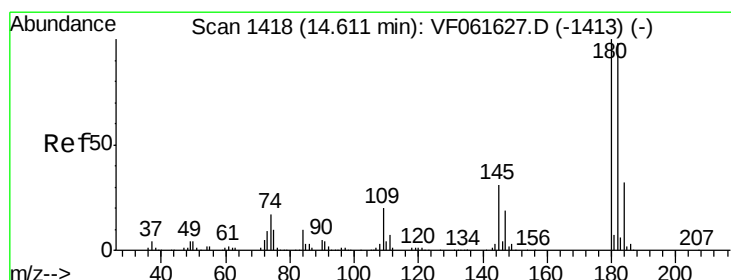
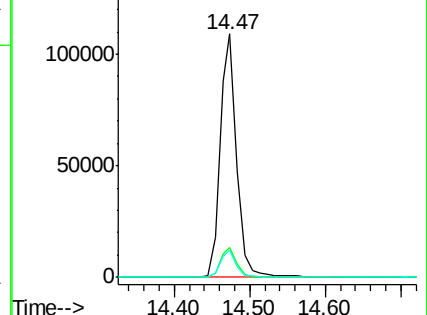
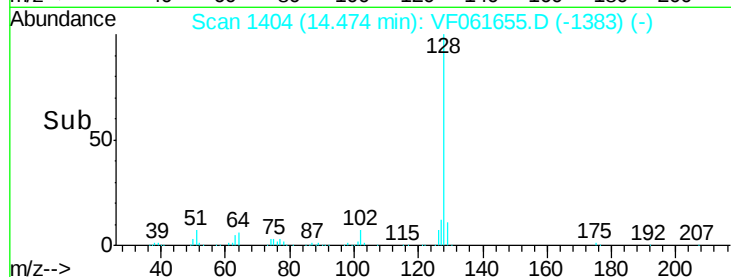
129 11.4 9.4 14.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 18.918 ug/l

RT: 14.62 min Scan# 1419

Delta R.T. 0.01 min

Lab File: VF061655.D

Acq: 15 Feb 2019 14:46

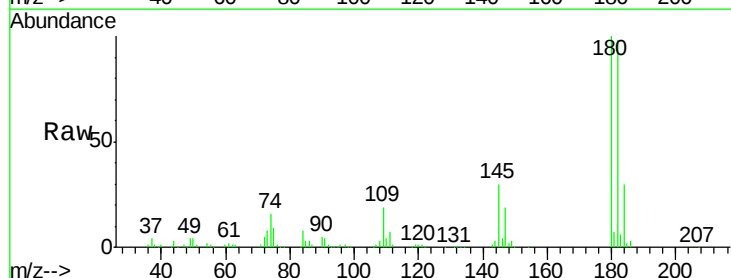
Tgt Ion:180 Resp: 95149

Ion Ratio Lower Upper

180 100

182 98.4 49.0 147.2

145 29.6 15.4 46.1



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

