

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF021519\
 Data File : VF061651.D
 Acq On : 15 Feb 2019 12:50
 Operator : VA/AP
 Sample : VF0215SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0215SBS01

Quant Time: Feb 16 05:24:27 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	4.89	168	335693	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.62	114	481365	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.79	117	436499	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	241979	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.86	65	128122	52.05	ug/l	0.00
Spiked Amount 50.000			Recovery =	104.10%		
35) Dibromofluoromethane	4.13	113	184350	51.57	ug/l	0.00
Spiked Amount 50.000			Recovery =	103.14%		
50) Toluene-d8	7.57	98	521460	50.74	ug/l	0.00
Spiked Amount 50.000			Recovery =	101.48%		
62) 4-Bromofluorobenzene	11.42	95	209333	50.35	ug/l	0.00
Spiked Amount 50.000			Recovery =	100.70%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	87922	22.807	ug/l	96
3) Chloromethane	1.11	50	90280	22.320	ug/l	95
4) Vinyl Chloride	1.15	62	83313	22.157	ug/l	91
5) Bromomethane	1.35	94	51668	19.965	ug/l	92
6) Chloroethane	1.39	64	36640	19.773	ug/l	96
7) Trichlorofluoromethane	1.48	101	94123	20.754	ug/l	94
8) Diethyl Ether	1.64	74	21248	18.591	ug/l	84
9) 1,1,2-Trichlorotrifluoroet	1.83	101	61739	18.870	ug/l #	85
10) Methyl Iodide	1.91	142	97542	15.607	ug/l	97
11) Tert butyl alcohol	2.59	59	12408	87.094	ug/l #	91
12) 1,1-Dichloroethene	1.79	96	53427	18.573	ug/l	90
13) Acrolein	2.02	56	22140	123.649	ug/l	91
14) Allyl chloride	2.11	41	72877	20.646	ug/l	98
15) Acrylonitrile	2.95	53	49612	98.177	ug/l #	95
16) Acetone	2.24	43	56860	107.655	ug/l	96
17) Carbon Disulfide	1.83	76	164865	18.233	ug/l	99
18) Methyl Acetate	2.35	43	21022	17.668	ug/l	93
19) Methyl tert-butyl Ether	2.44	73	99106	20.159	ug/l	96
20) Methylene Chloride	2.19	84	65519m	21.725	ug/l	
21) trans-1,2-Dichloroethene	2.32	96	59137	18.911	ug/l	98
22) Diisopropyl ether	2.82	45	171689	20.263	ug/l	98
23) Vinyl Acetate	3.20	43	413544	99.926	ug/l	99
24) 1,1-Dichloroethane	2.88	63	103756	20.235	ug/l	98
25) 2-Butanone	4.35	43	121867	105.633	ug/l	95
26) 2,2-Dichloropropane	3.61	77	46951	21.617	ug/l	93
27) cis-1,2-Dichloroethene	3.49	96	83665	20.384	ug/l	96
28) Bromochloromethane	3.73	49	48951	19.896	ug/l #	100
29) Tetrahydrofuran	4.10	42	51606	98.417	ug/l	97
30) Chloroform	3.88	83	119335	20.465	ug/l	100
31) Cyclohexane	3.71	56	107865	19.432	ug/l	99
32) 1,1,1-Trichloroethane	4.12	97	80405	21.049	ug/l	96
36) 1,1-Dichloropropene	4.29	75	97267	20.398	ug/l	94
37) Ethyl Acetate	4.14	43	41177	18.591	ug/l	95
38) Carbon Tetrachloride	4.01	117	73480	22.316	ug/l	94

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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	5.47	83	111406	19.755	ug/l	98
40) Benzene	4.65	78	273100	21.896	ug/l	98
41) Methacrylonitrile	4.76	41	25567	22.572	ug/l	93
42) 1,2-Dichloroethane	4.96	62	58397	19.573	ug/l	93
43) Isopropyl Acetate	6.98	43	54394	20.748	ug/l	92
44) Trichloroethene	5.52	130	85025	21.080	ug/l	97
45) 1,2-Dichloropropane	6.25	63	62258	20.650	ug/l	99
46) Dibromomethane	6.10	93	40253	21.685	ug/l	94
47) Bromodichloromethane	6.41	83	85860	21.121	ug/l	98
48) Methyl methacrylate	6.73	41	32625	20.679	ug/l	93
49) 1,4-Dioxane	6.73	88	5000	337.126	ug/l #	80
51) 4-Methyl-2-Pentanone	8.28	43	195723	104.481	ug/l	98
52) Toluene	7.64	92	157367	20.803	ug/l	97
53) t-1,3-Dichloropropene	8.29	75	68407	20.220	ug/l	96
54) cis-1,3-Dichloropropene	7.32	75	97032	21.532	ug/l	96
55) 1,1,2-Trichloroethane	8.51	97	47282	21.274	ug/l	98
56) Ethyl methacrylate	8.63	69	54947	22.205	ug/l	98
57) 1,3-Dichloropropane	8.87	76	75123	20.250	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.31	63	44270	103.692	ug/l	95
59) 2-Hexanone	9.51	43	147118	112.037	ug/l	96
60) Dibromochloromethane	8.73	129	62929	20.342	ug/l	97
61) 1,2-Dibromoethane	9.00	107	50978	21.147	ug/l	91
64) Tetrachloroethene	8.17	164	73256	20.532	ug/l	98
65) Chlorobenzene	9.82	112	180435	20.371	ug/l	97
66) 1,1,1,2-Tetrachloroethane	9.95	131	69373	19.987	ug/l	94
67) Ethyl Benzene	9.92	91	297225	20.178	ug/l	99
68) m/p-Xylenes	10.14	106	236246	41.907	ug/l	95
69) o-Xylene	10.72	106	126588	21.044	ug/l	99
70) Styrene	10.80	104	165383	19.434	ug/l	96
71) Bromoform	10.78	173	36504	19.368	ug/l	92
73) Isopropylbenzene	11.14	105	363333	21.089	ug/l	99
74) N-amyl acetate	11.38	43	82048	19.841	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.71	83	60540	19.614	ug/l	90
76) 1,2,3-Trichloropropane	11.81	75	38679	18.432	ug/l	82
77) Bromobenzene	11.51	156	85542	20.098	ug/l	94
78) n-propylbenzene	11.61	91	320977	16.235	ug/l	98
79) 2-Chlorotoluene	11.73	91	224302	20.258	ug/l	94
80) 1,3,5-Trimethylbenzene	11.84	105	275086	19.978	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.88	75	19972m	19.852	ug/l	
82) 4-Chlorotoluene	11.91	91	232305	20.214	ug/l	95
83) tert-Butylbenzene	12.14	119	311039	20.394	ug/l	97
84) 1,2,4-Trimethylbenzene	12.21	105	278939	20.390	ug/l	98
85) sec-Butylbenzene	12.32	105	392156	19.884	ug/l	99
86) p-Isopropyltoluene	12.47	119	356267	21.524	ug/l	99
87) 1,3-Dichlorobenzene	12.49	146	173331	20.890	ug/l	98
88) 1,4-Dichlorobenzene	12.58	146	164061	20.559	ug/l	98
89) n-Butylbenzene	12.85	91	333449	21.334	ug/l	97
90) Hexachloroethane	12.93	117	78516	20.396	ug/l	91
91) 1,2-Dichlorobenzene	12.95	146	159206	20.172	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.65	75	9169	18.737	ug/l	81

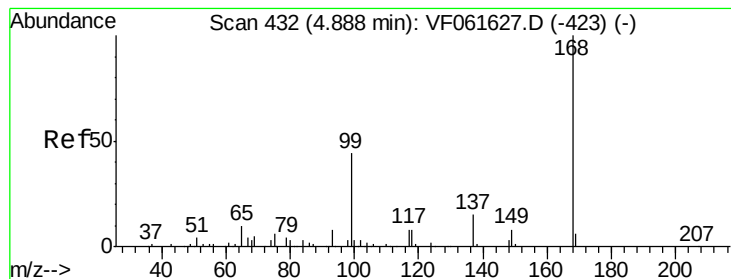
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Quant Title : SW846 8260
QLast Update : Thu Feb 14 03:27:56 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.21	180	116896	20.664	ug/l	95
94) Hexachlorobutadiene	14.21	225	70483	20.174	ug/l	97
95) Naphthalene	14.47	128	189345	19.130	ug/l	99
96) 1,2,3-Trichlorobenzene	14.61	180	103637	19.960	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. -0.00 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

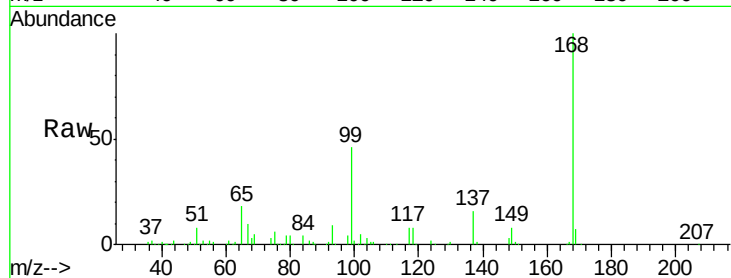
VF0215SBS01

Tot Ion:168 Resp: 335693

Ion Ratio Lower Upper

168 100

99 46.1 34.9 52.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.89

120000

100000

80000

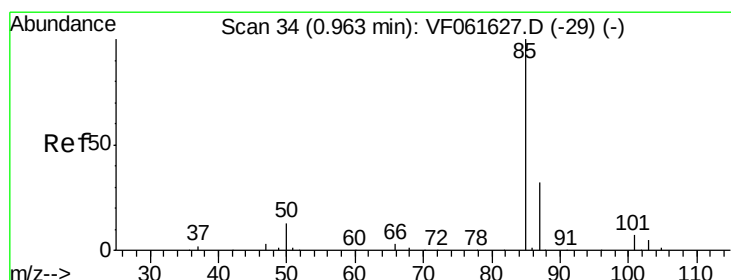
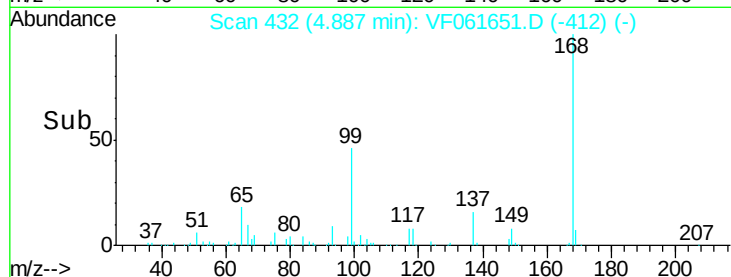
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 22.807 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.00 min

Lab File: VF061651.D

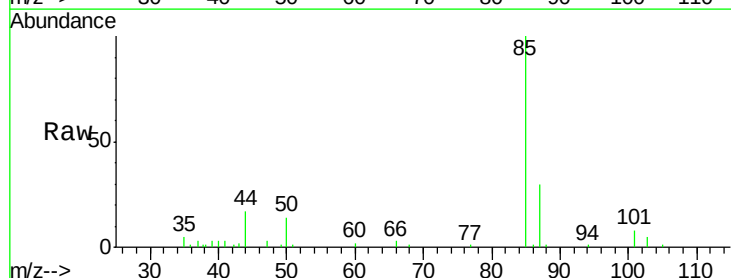
Acq: 15 Feb 2019 12:50

Tgt Ion: 85 Resp: 87922

Ion Ratio Lower Upper

85 100

87 29.9 16.1 48.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

30000

25000

20000

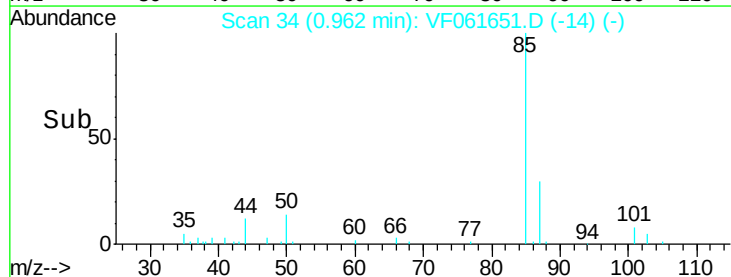
15000

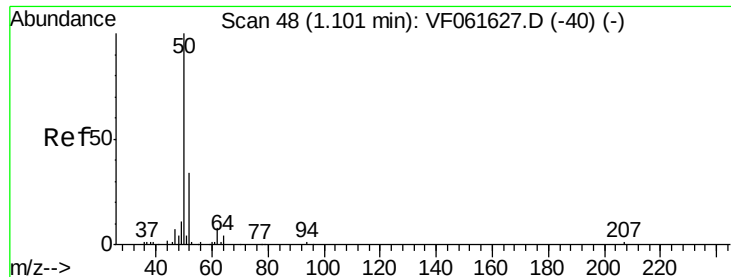
10000

5000

0

Time--> 0.80 0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 22.320 ug/l

RT: 1.11 min Scan# 49

Delta R.T. 0.01 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

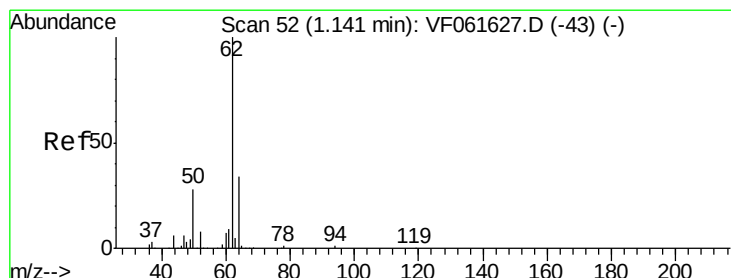
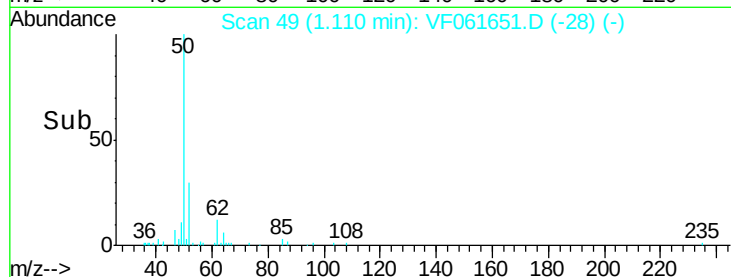
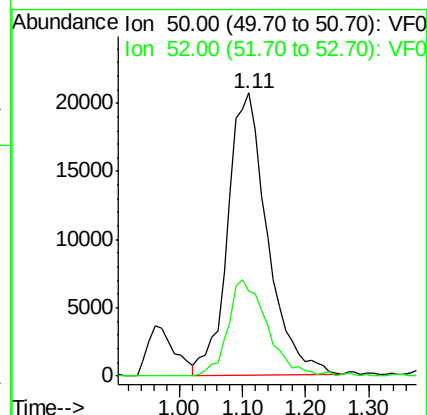
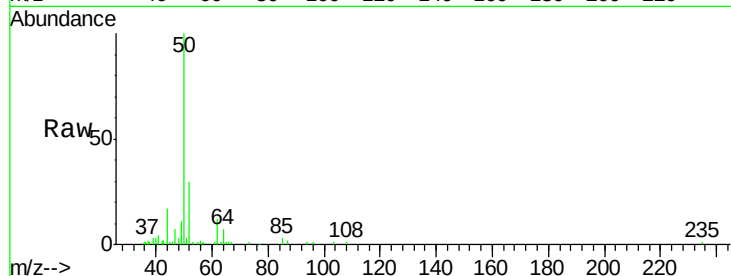
VF0215SBS01

Tot Ion: 50 Resp: 90280

Ion Ratio Lower Upper

50 100

52 30.0 26.2 39.4



#4

Vinyl Chloride

Concen: 22.157 ug/l

RT: 1.15 min Scan# 53

Delta R.T. 0.01 min

Lab File: VF061651.D

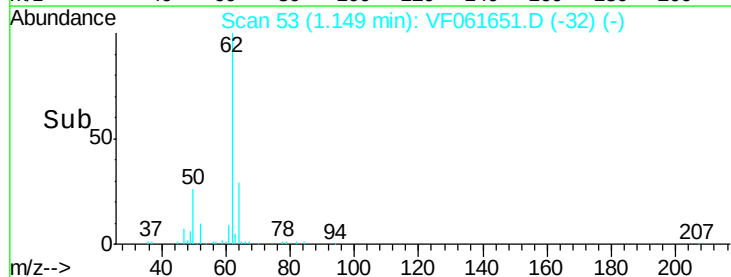
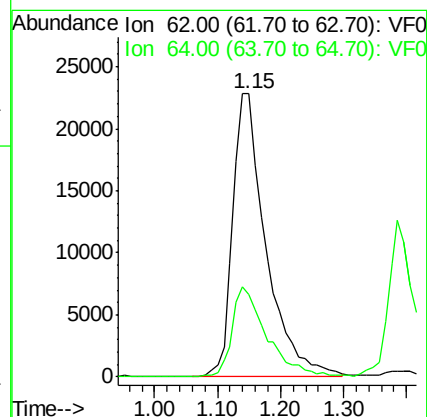
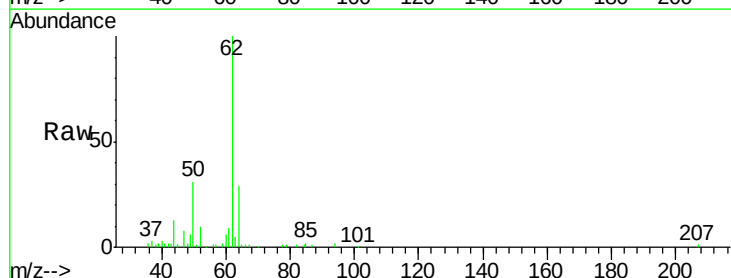
Acq: 15 Feb 2019 12:50

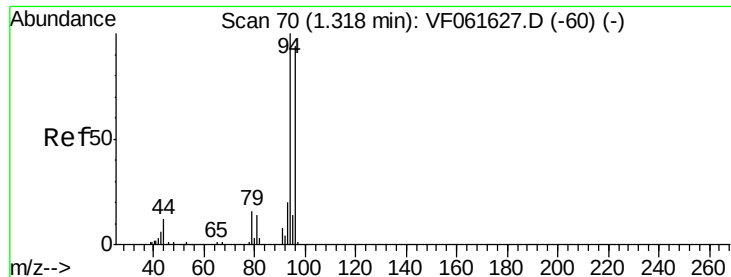
Tgt Ion: 62 Resp: 83313

Ion Ratio Lower Upper

62 100

64 29.1 27.5 41.3





#5

Bromomethane

Concen: 19.965 ug/l

RT: 1.35 min Scan# 73

Delta R.T. 0.03 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

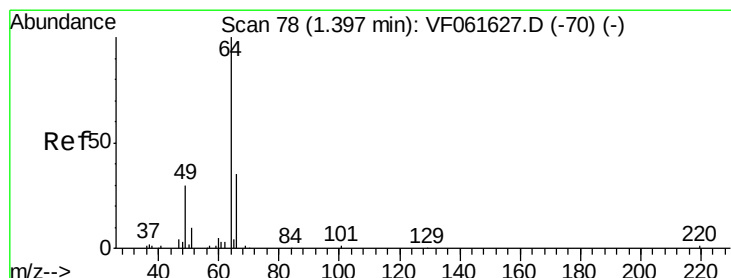
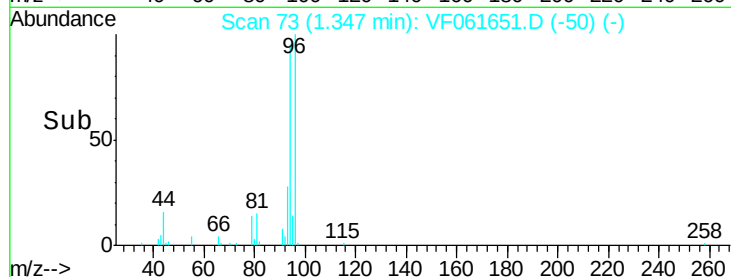
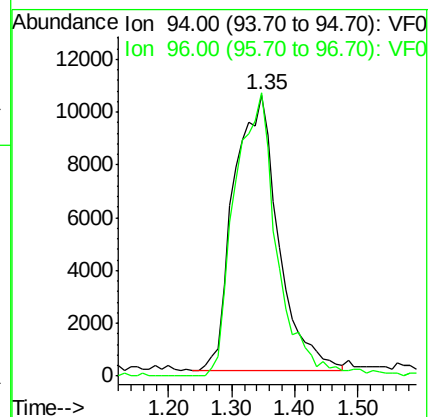
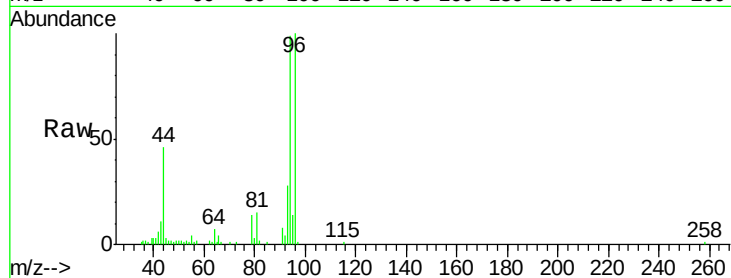
VF0215SBS01

Tot Ion: 94 Resp: 51668

Ion Ratio Lower Upper

94 100

96 100.8 74.6 112.0



#6

Chloroethane

Concen: 19.773 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.01 min

Lab File: VF061651.D

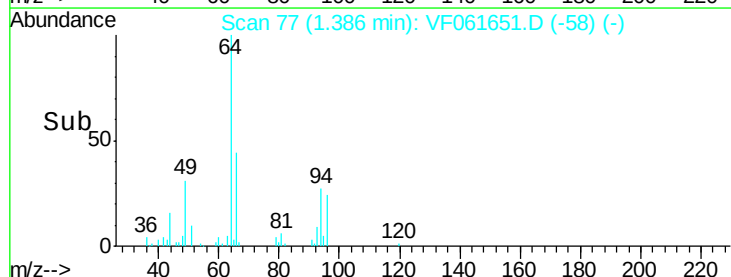
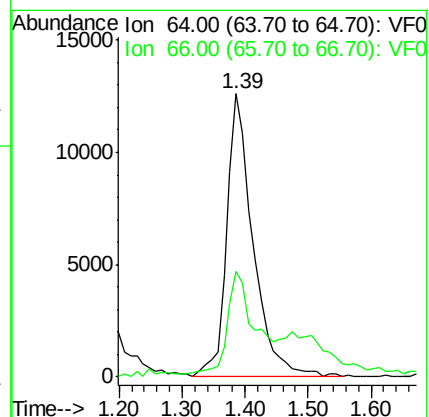
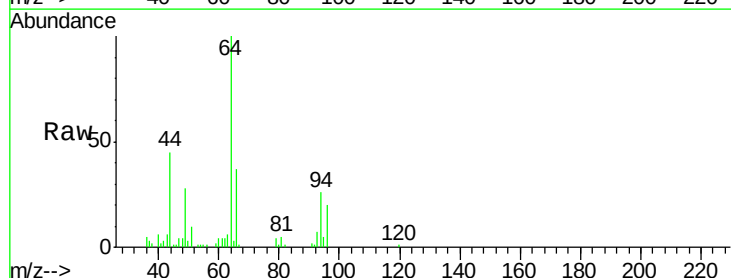
Acq: 15 Feb 2019 12:50

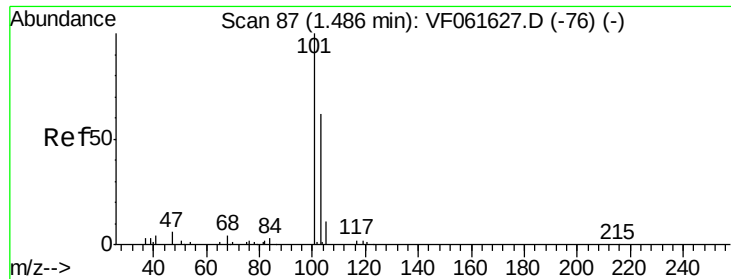
Tgt Ion: 64 Resp: 36640

Ion Ratio Lower Upper

64 100

66 37.2 27.9 41.9



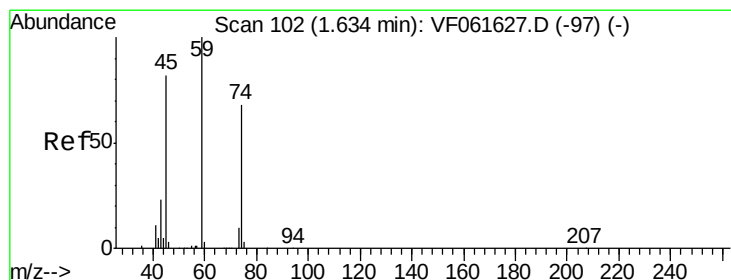
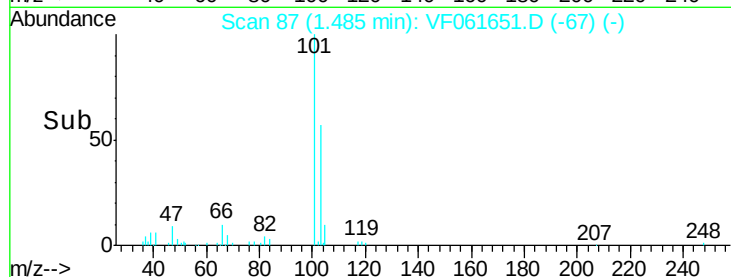
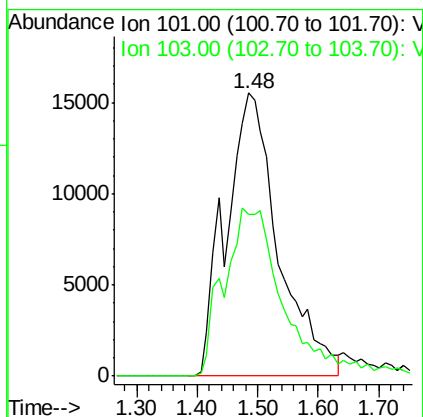
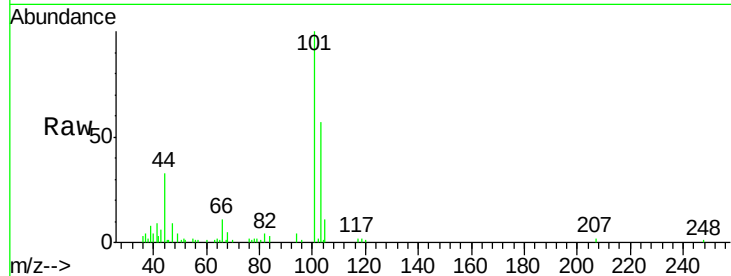


#7

Trichlorofluoromethane
Concen: 20.754 ug/l
RT: 1.48 min Scan# 87
Delta R.T. -0.00 min
Lab File: VF061651.D
Acq: 15 Feb 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0215SBS01

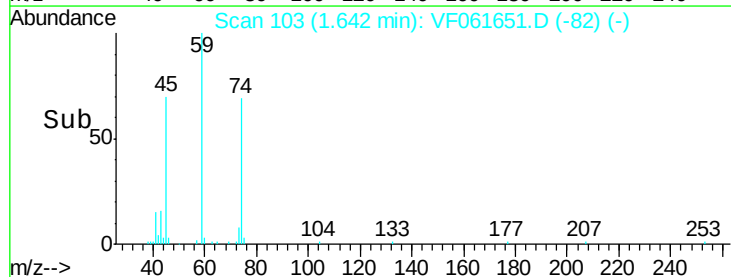
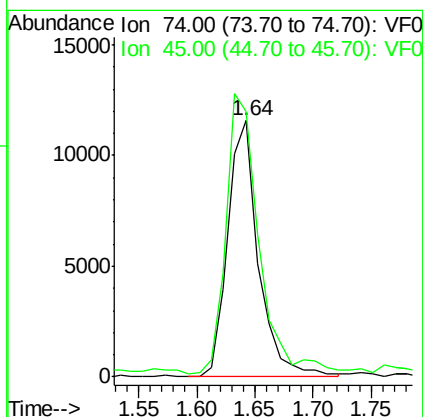
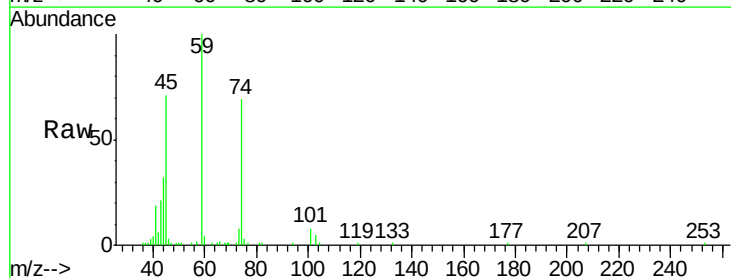
Tot Ion:101 Resp: 94123
Ion Ratio Lower Upper
101 100
103 57.0 49.3 73.9

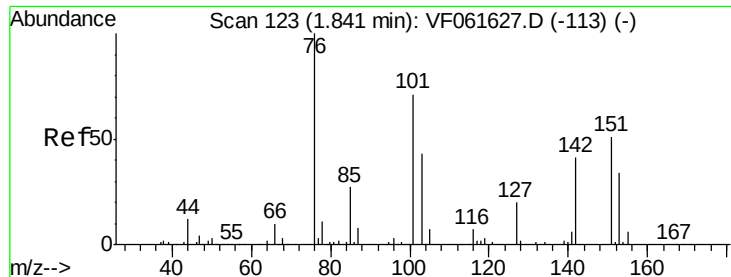


#8

Diethyl Ether
Concen: 18.591 ug/l
RT: 1.64 min Scan# 103
Delta R.T. 0.01 min
Lab File: VF061651.D
Acq: 15 Feb 2019 12:50

Tgt Ion: 74 Resp: 21248
Ion Ratio Lower Upper
74 100
45 103.6 60.8 182.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.870 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.01 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0215SBS01

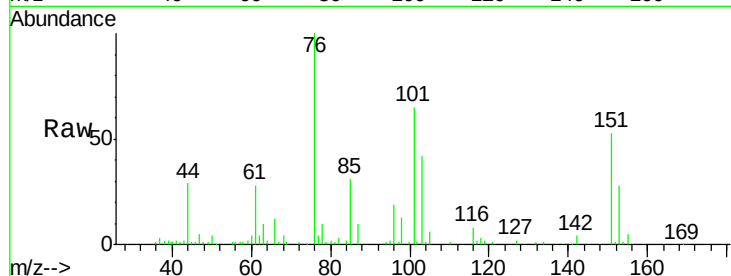
Tot Ion:101 Resp: 61739

Ion Ratio Lower Upper

101 100

85 47.1 29.8 44.6#

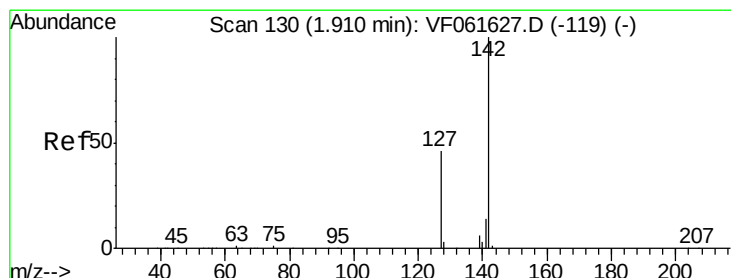
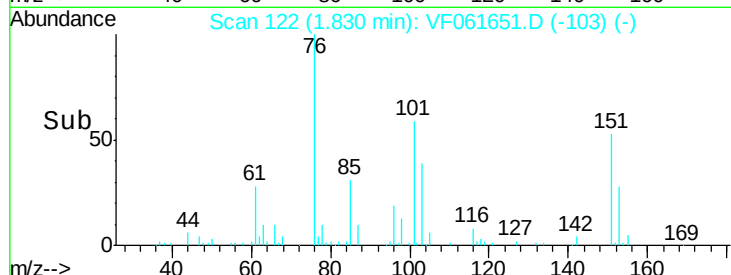
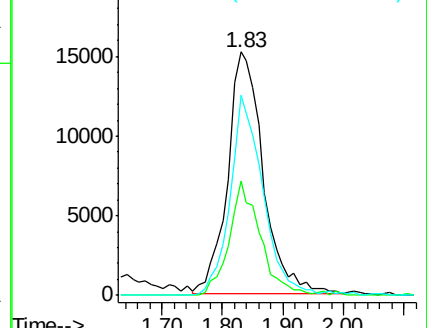
151 82.1 56.3 84.5



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: 15.607 ug/l

RT: 1.91 min Scan# 130

Delta R.T. -0.00 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

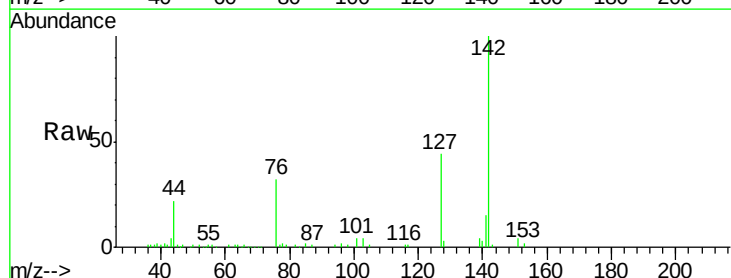
Tgt Ion:142 Resp: 97542

Ion Ratio Lower Upper

142 100

127 44.2 36.6 55.0

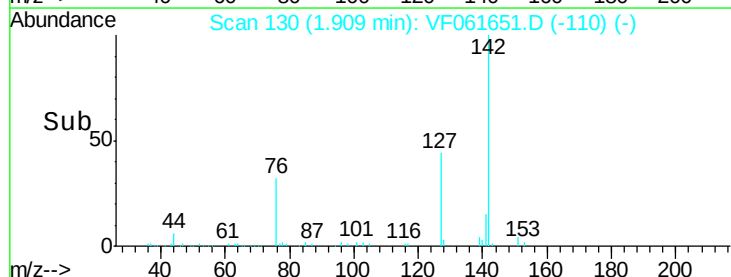
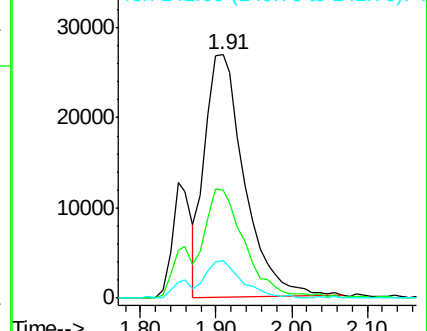
141 15.3 11.0 16.6

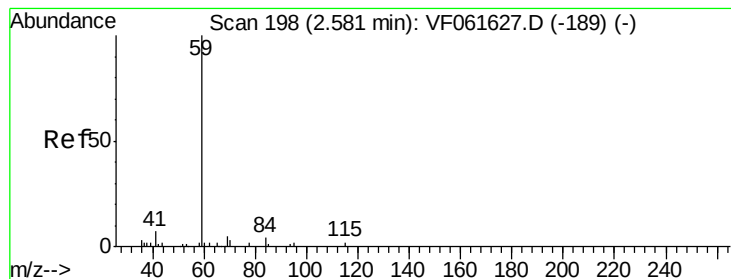


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



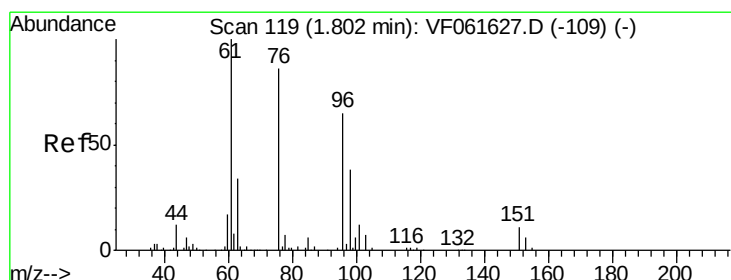
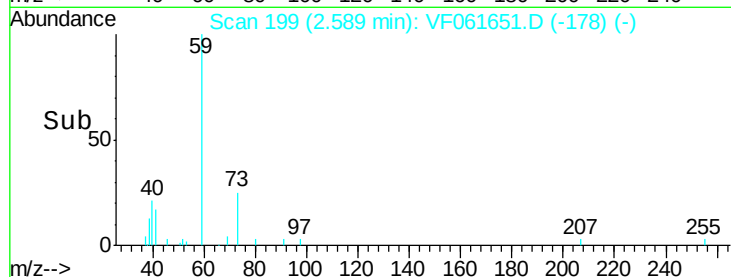
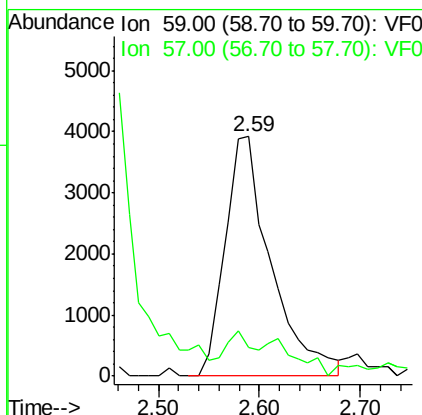
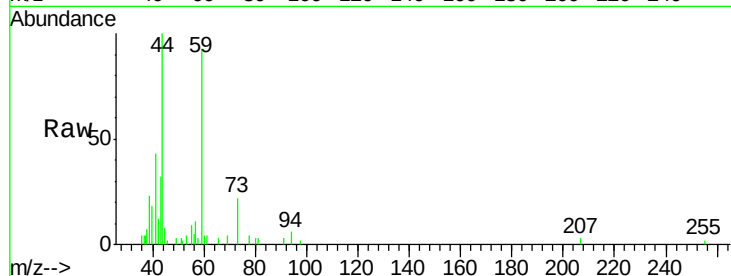


#11

Tert butyl alcohol
 Concen: 87.094 ug/l
 RT: 2.59 min Scan# 199
 Delta R.T. 0.01 min
 Lab File: VF061651.D
 Acq: 15 Feb 2019 12:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0215SBS01

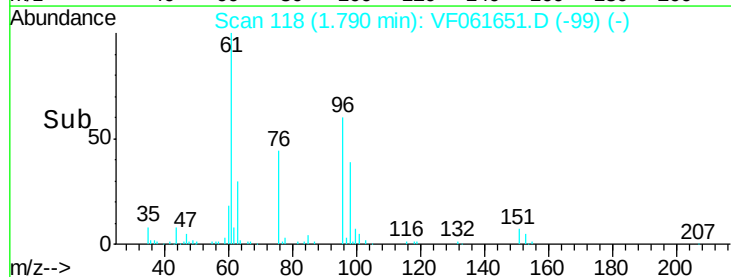
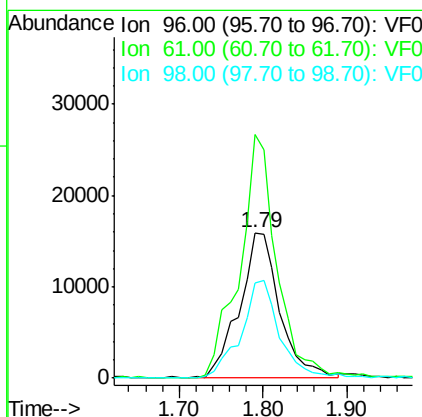
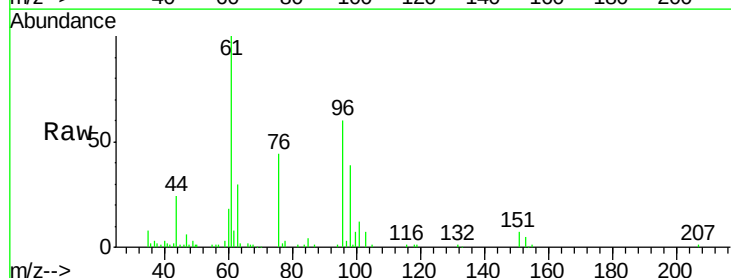
Tot Ion: 59 Resp: 12408
 Ion Ratio Lower Upper
 59 100
 57 11.8 12.5 18.7#

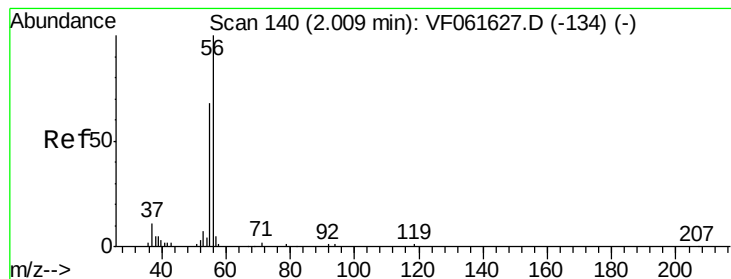


#12

1,1-Dichloroethene
 Concen: 18.573 ug/l
 RT: 1.79 min Scan# 118
 Delta R.T. -0.01 min
 Lab File: VF061651.D
 Acq: 15 Feb 2019 12:50

Tgt Ion: 96 Resp: 53427
 Ion Ratio Lower Upper
 96 100
 61 167.5 122.6 184.0
 98 65.5 47.2 70.8





#13

Acrolein

Concen: 123.649 ug/l

RT: 2.02 min Scan# 141

Delta R.T. 0.01 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

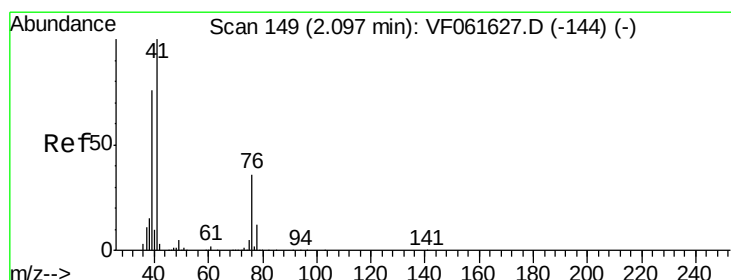
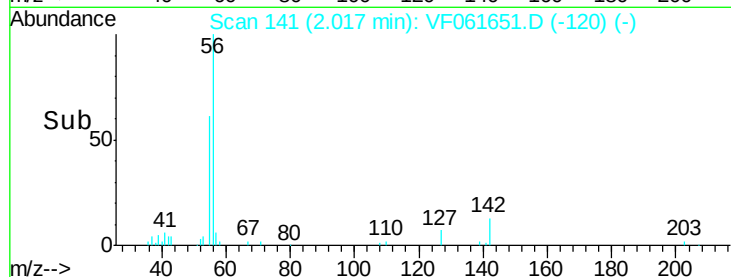
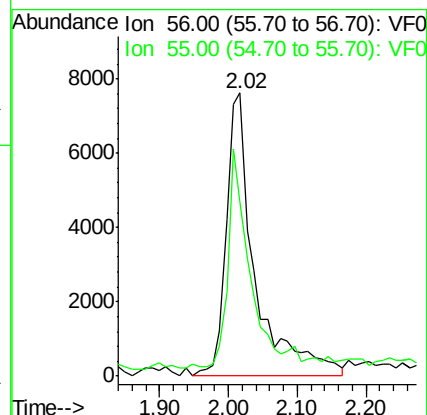
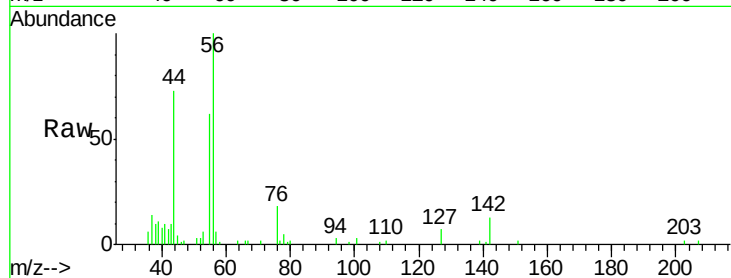
VF0215SBS01

Tot Ion: 56 Resp: 22140

Ion Ratio Lower Upper

56 100

55 61.8 55.0 82.6



#14

Allyl chloride

Concen: 20.646 ug/l

RT: 2.11 min Scan# 150

Delta R.T. 0.01 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

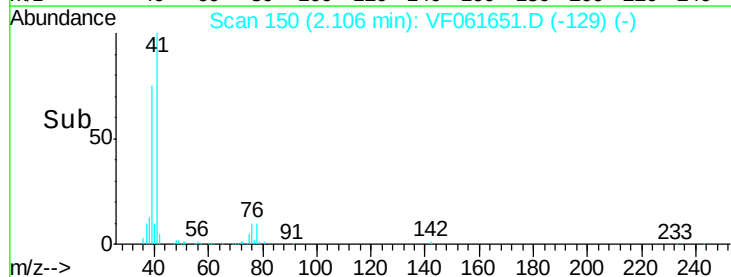
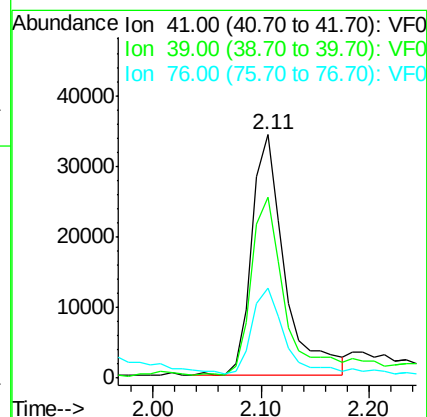
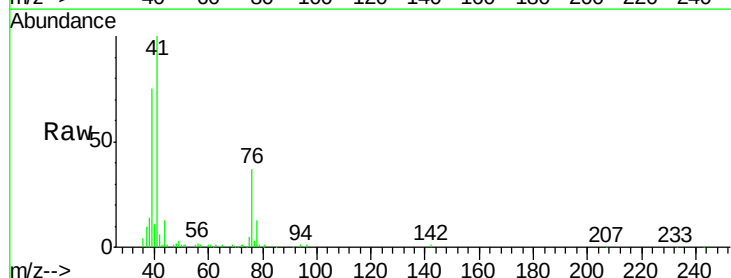
Tgt Ion: 41 Resp: 72877

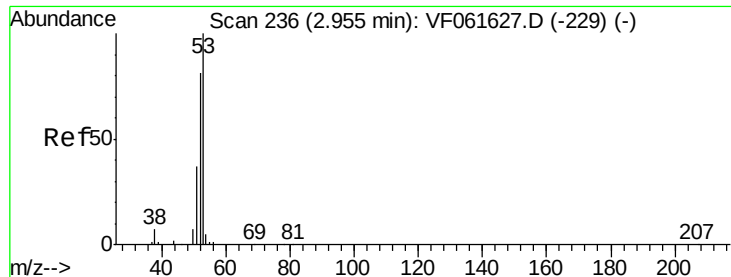
Ion Ratio Lower Upper

41 100

39 74.5 61.6 92.4

76 37.2 30.3 45.5





#15

Acrylonitrile

Concen: 98.177 ug/l

RT: 2.95 min Scan# 236

Delta R.T. -0.00 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0215SBS01

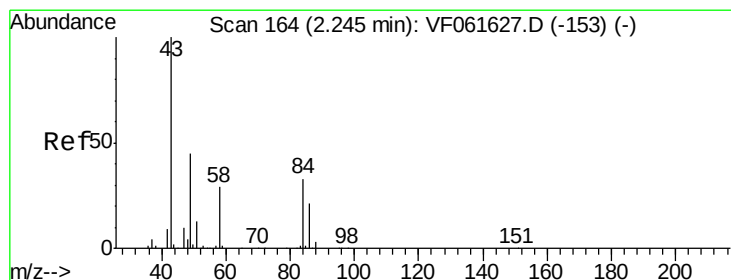
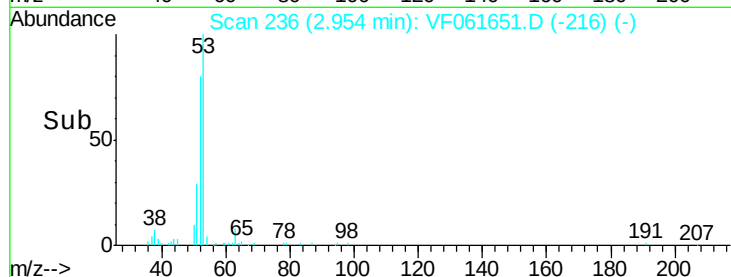
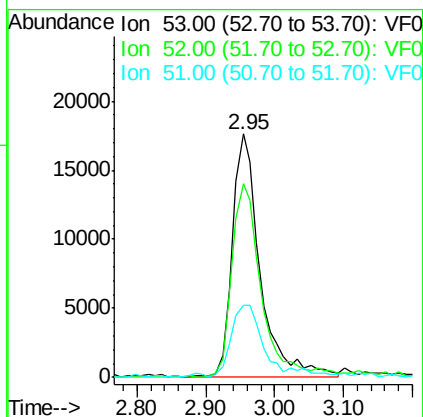
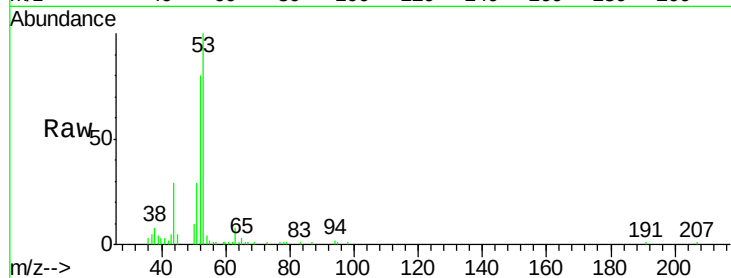
Tot Ion: 53 Resp: 49612

Ion Ratio Lower Upper

53 100

52 79.7 64.6 97.0

51 29.4 29.8 44.8#



#16

Acetone

Concen: 107.655 ug/l

RT: 2.24 min Scan# 164

Delta R.T. -0.00 min

Lab File: VF061651.D

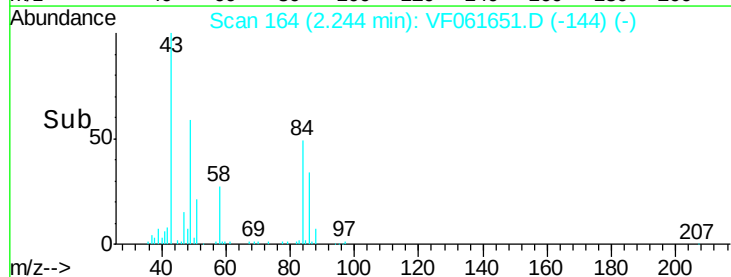
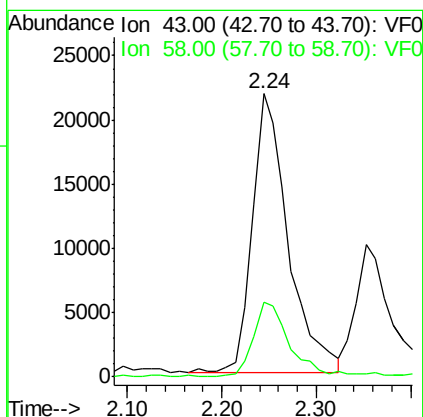
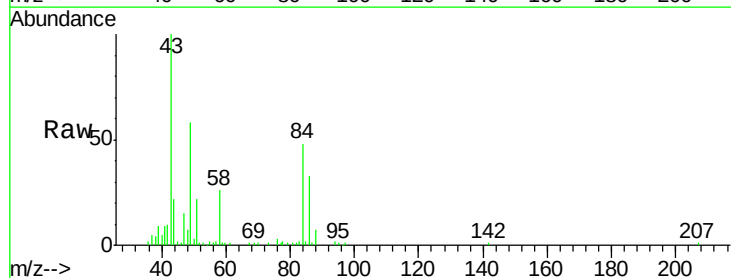
Acq: 15 Feb 2019 12:50

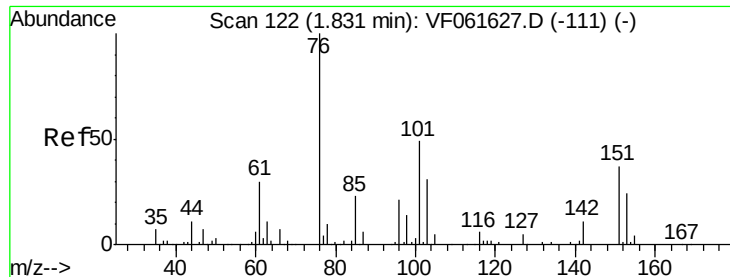
Tgt Ion: 43 Resp: 56860

Ion Ratio Lower Upper

43 100

58 26.4 22.9 34.3





#17

Carbon Disulfide

Concen: 18.233 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.00 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

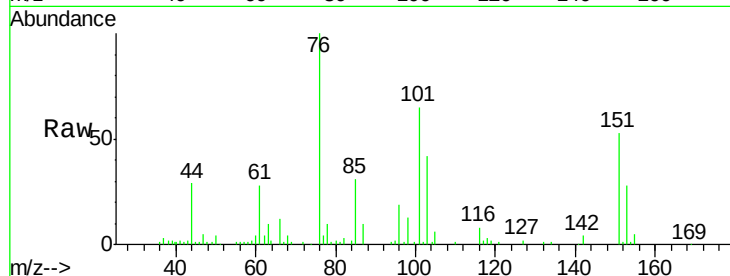
VF0215SBS01

Tot Ion: 76 Resp: 164865

Ion Ratio Lower Upper

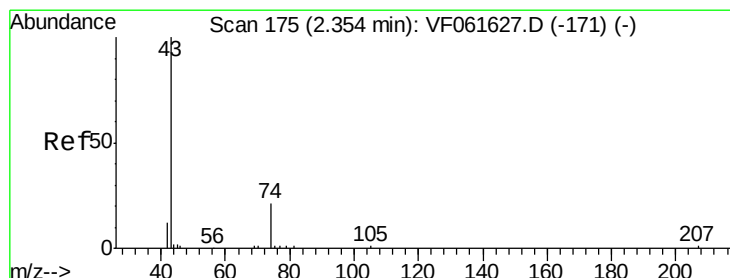
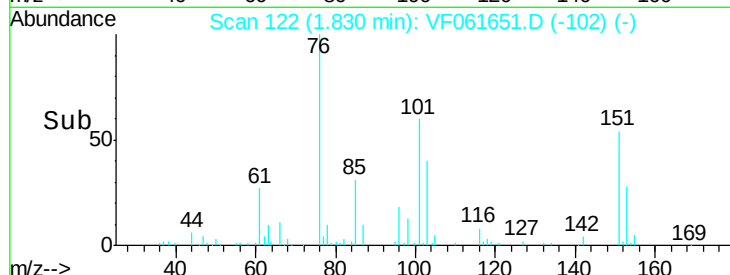
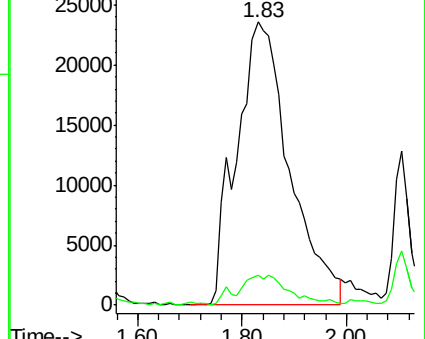
76 100

78 10.4 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: 17.668 ug/l

RT: 2.35 min Scan# 175

Delta R.T. -0.00 min

Lab File: VF061651.D

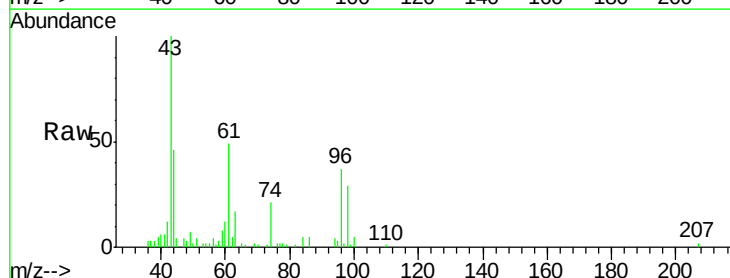
Acq: 15 Feb 2019 12:50

Tgt Ion: 43 Resp: 21022

Ion Ratio Lower Upper

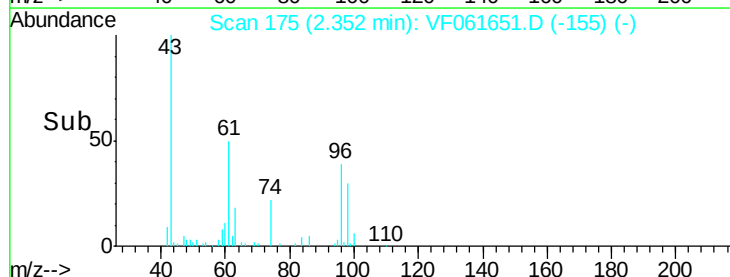
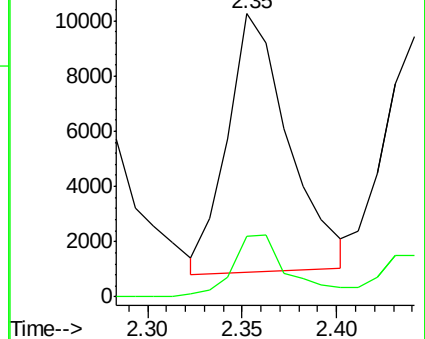
43 100

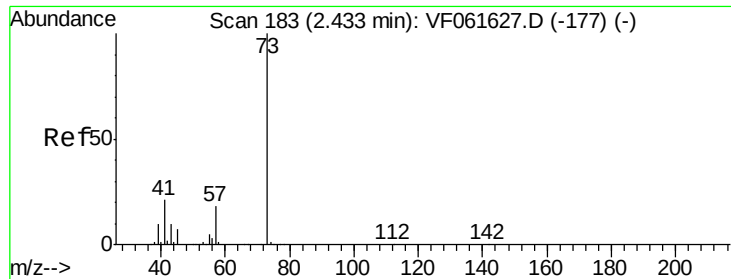
74 21.3 14.6 21.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

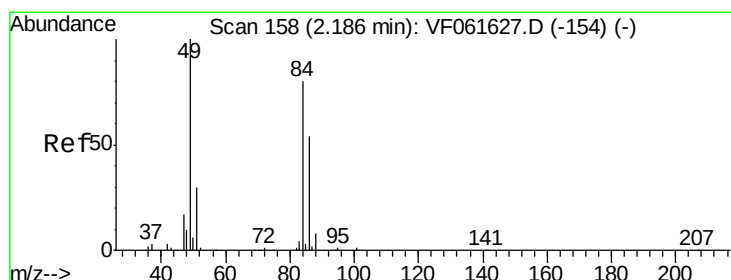
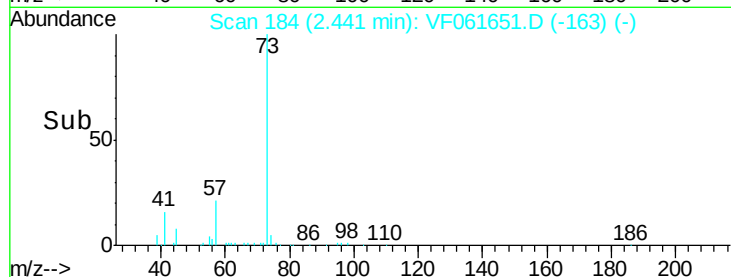
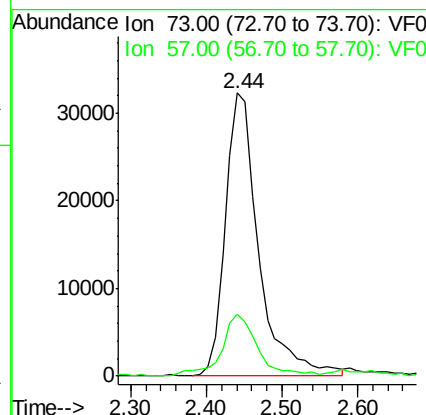
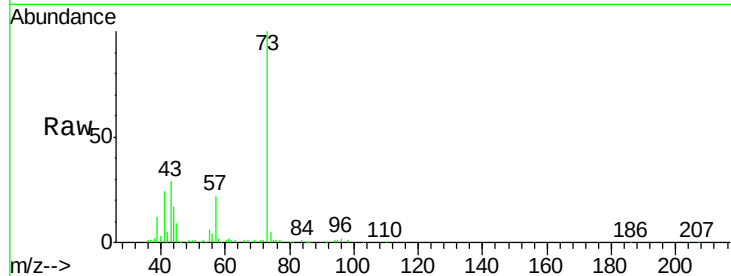




#19
Methyl tert-butyl Ether
Concen: 20.159 ug/l
RT: 2.44 min Scan# 184
Delta R.T. 0.01 min
Lab File: VF061651.D
Acq: 15 Feb 2019 12:50

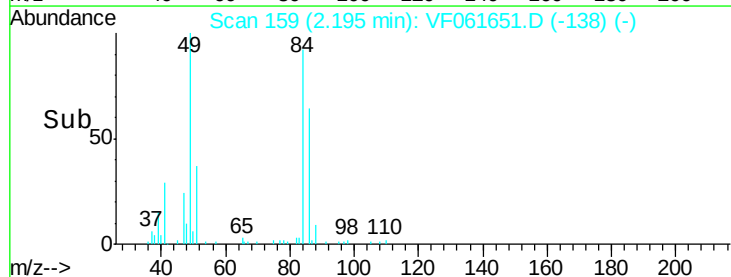
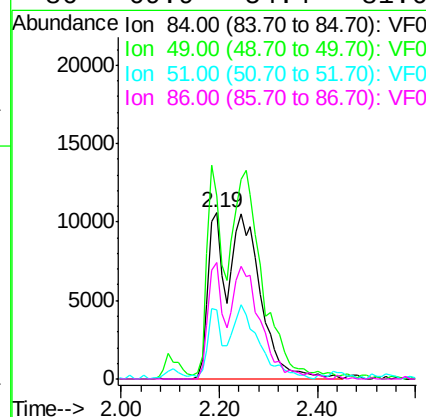
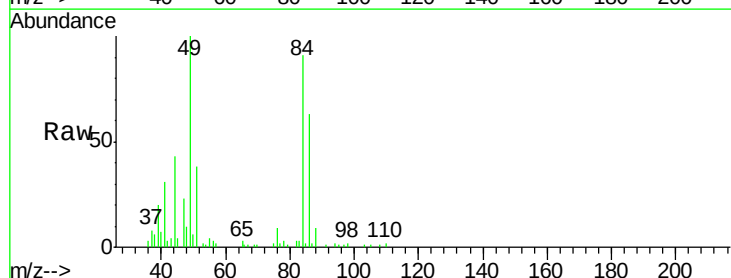
Instrument :
MSVOA_F
ClientSampleId :
VF0215SBS01

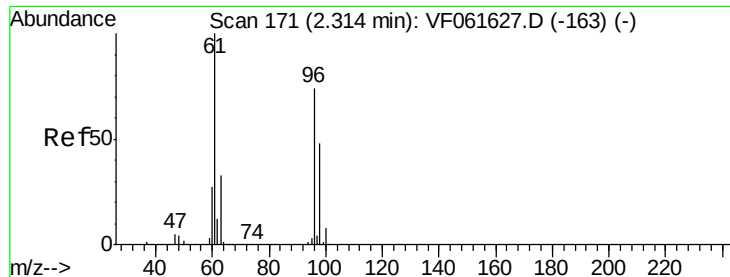
Tot Ion: 73 Resp: 99106
Ion Ratio Lower Upper
73 100
57 21.8 15.8 23.8



#20
Methylene Chloride
Concen: 21.725 ug/l m
RT: 2.19 min Scan# 159
Delta R.T. 0.01 min
Lab File: VF061651.D
Acq: 15 Feb 2019 12:50

Tgt Ion: 84 Resp: 65519
Ion Ratio Lower Upper
84 100
49 110.5 101.8 152.8
51 42.0 31.1 46.7
86 69.9 54.4 81.6





#21

trans-1,2-Dichloroethene

Concen: 18.911 ug/l

RT: 2.32 min Scan# 172

Delta R.T. 0.01 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0215SBS01

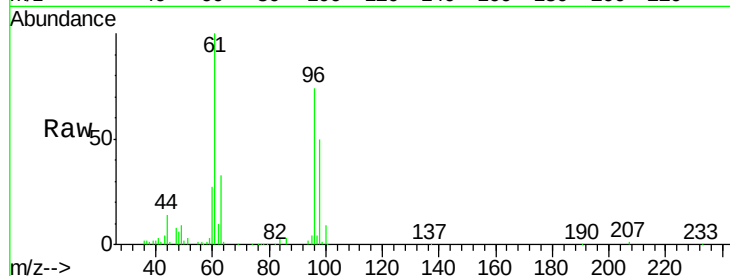
Tot Ion: 96 Resp: 59137

Ion Ratio Lower Upper

96 100

61 135.9 108.2 162.4

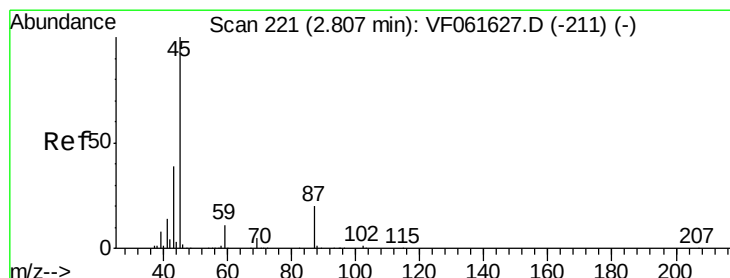
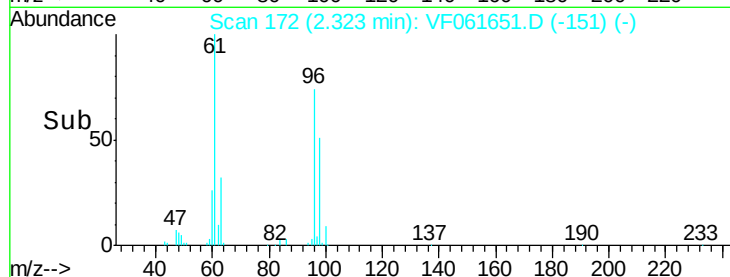
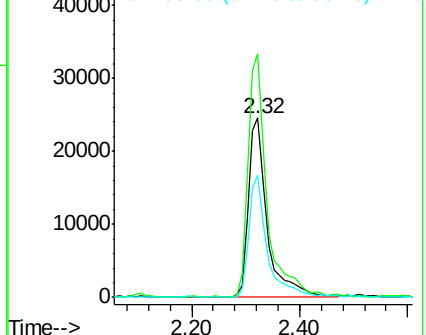
98 68.3 52.2 78.2



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: 20.263 ug/l

RT: 2.82 min Scan# 222

Delta R.T. 0.01 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

Tgt Ion: 45 Resp: 171689

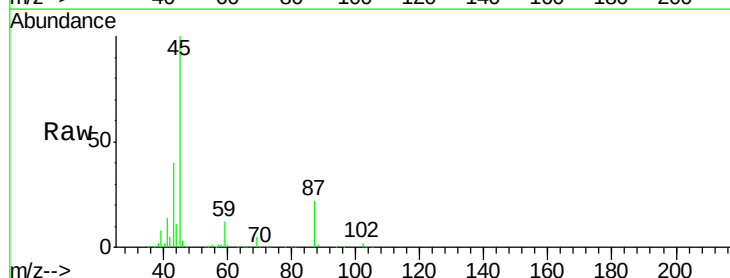
Ion Ratio Lower Upper

45 100

43 40.2 31.4 47.2

87 21.7 16.3 24.5

59 11.8 8.7 13.1

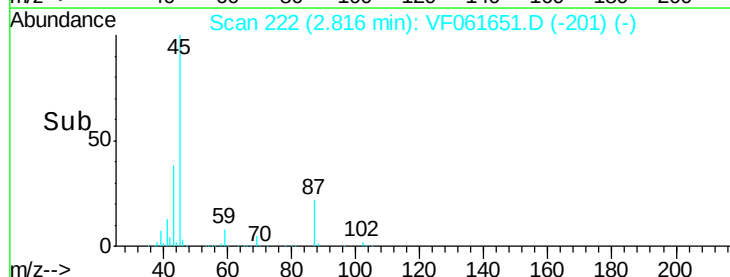
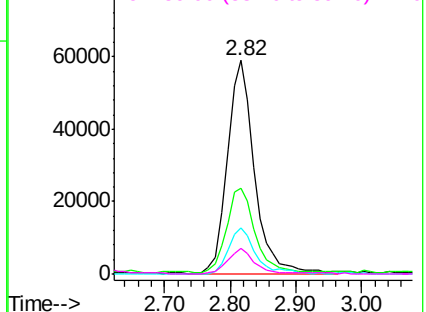


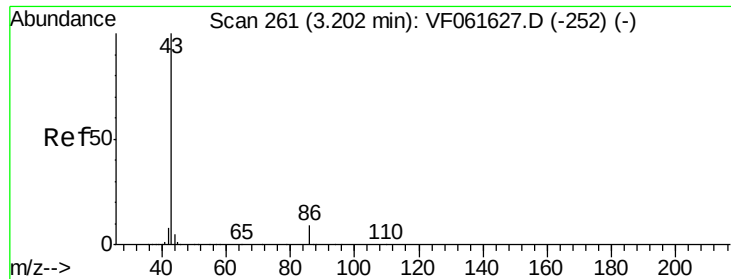
Abundance Ion 45.00 (44.70 to 45.70): VF0

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: 99.926 ug/l

RT: 3.20 min Scan# 261

Delta R.T. -0.00 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

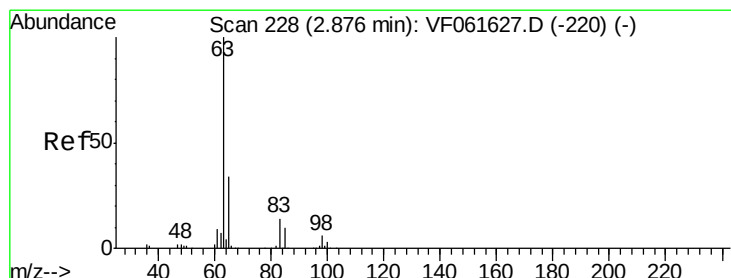
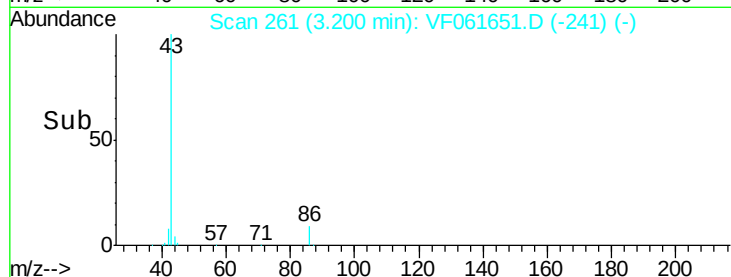
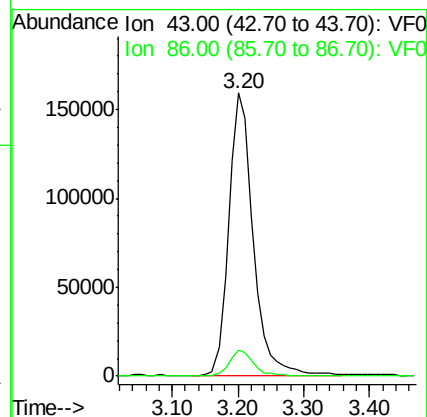
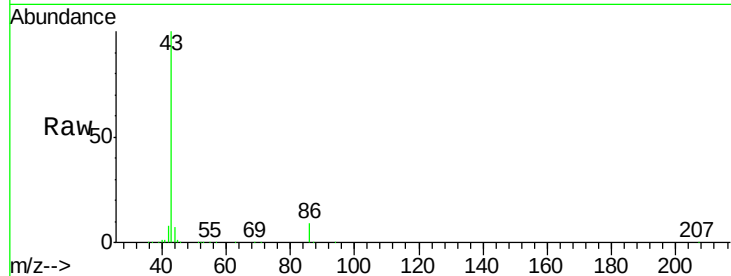
VF0215SBS01

Tot Ion: 43 Resp: 413544

Ion Ratio Lower Upper

43 100

86 9.2 7.5 11.3



#24

1,1-Dichloroethane

Concen: 20.235 ug/l

RT: 2.88 min Scan# 229

Delta R.T. 0.01 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

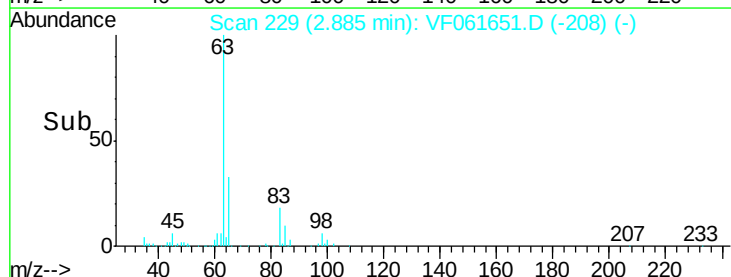
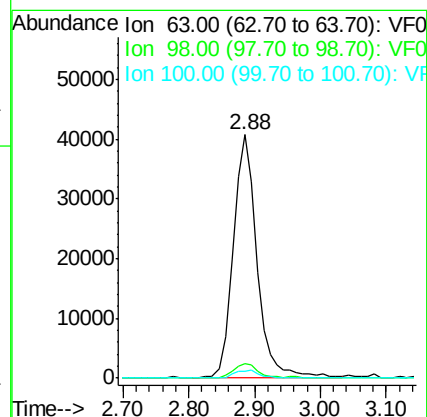
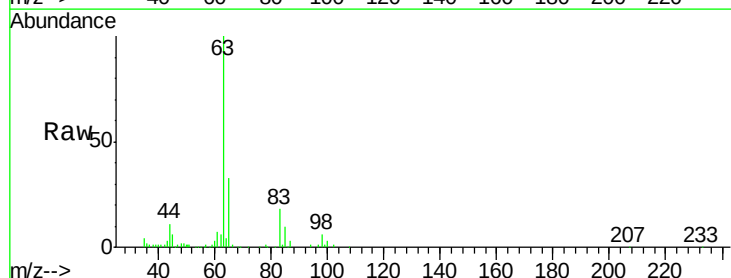
Tgt Ion: 63 Resp: 103756

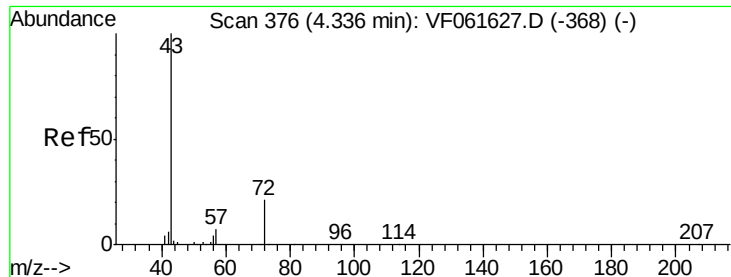
Ion Ratio Lower Upper

63 100

98 6.2 2.8 8.3

100 2.8 1.8 5.4





#25

2-Butanone

Concen: 105.633 ug/l

RT: 4.35 min Scan# 378

Delta R.T. 0.02 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

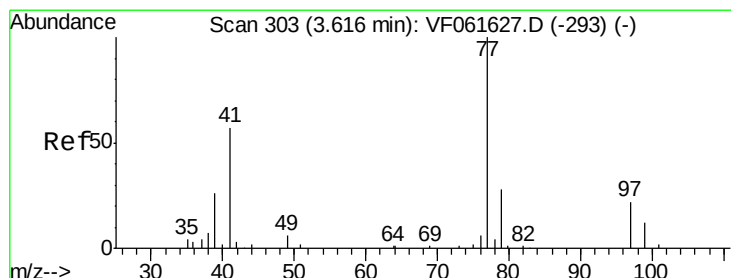
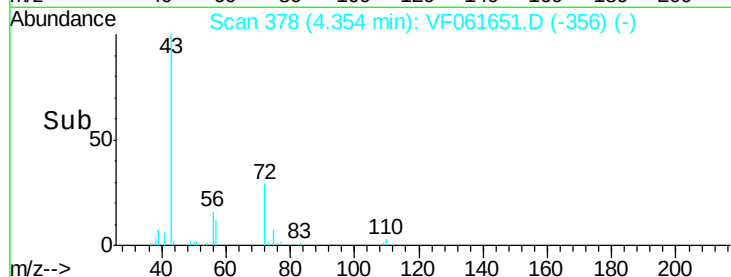
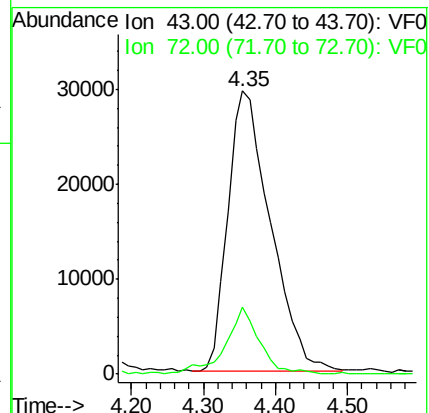
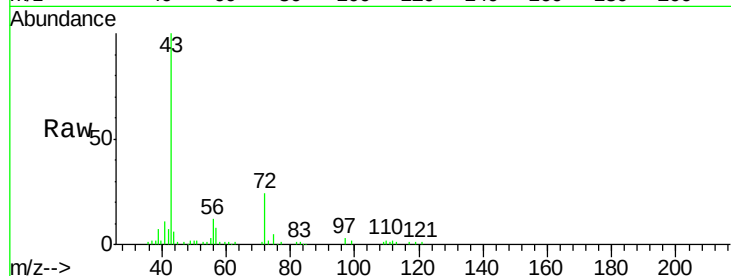
VF0215SBS01

Tot Ion: 43 Resp: 121867

Ion Ratio Lower Upper

43 100

72 23.9 17.1 25.7



#26

2,2-Dichloropropane

Concen: 21.617 ug/l

RT: 3.61 min Scan# 303

Delta R.T. -0.00 min

Lab File: VF061651.D

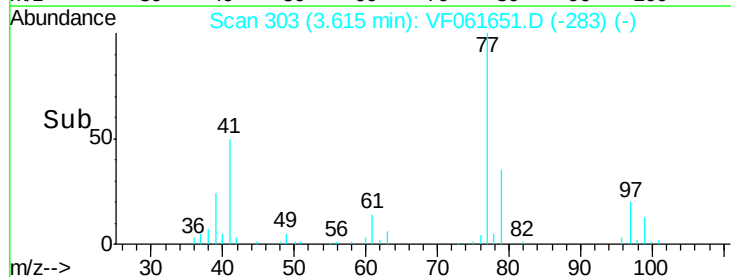
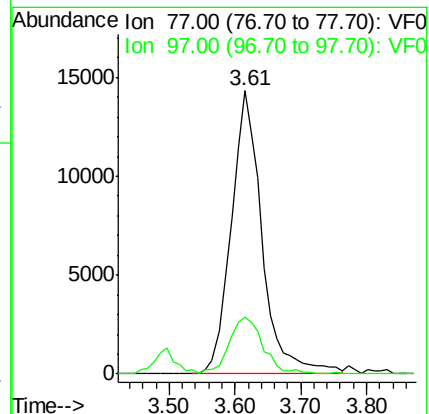
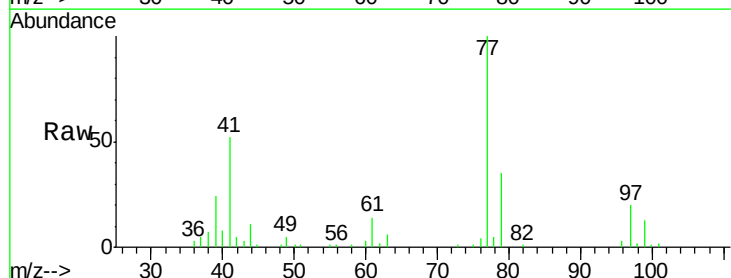
Acq: 15 Feb 2019 12:50

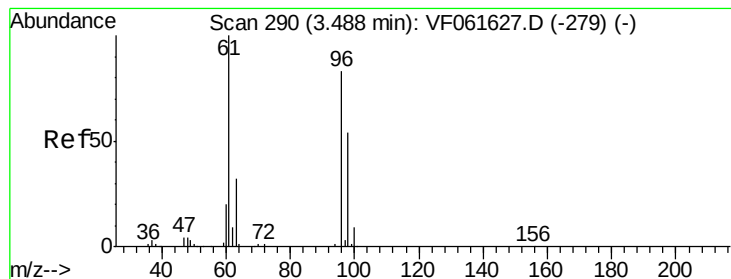
Tgt Ion: 77 Resp: 46951

Ion Ratio Lower Upper

77 100

97 20.0 11.7 35.0



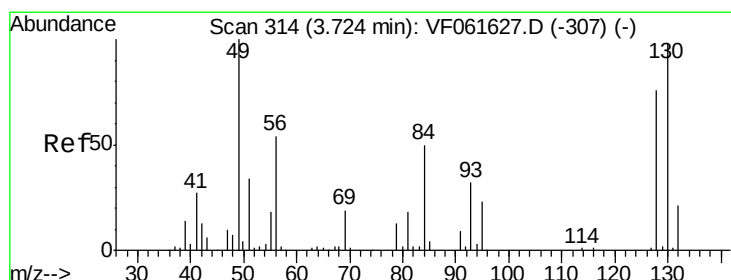
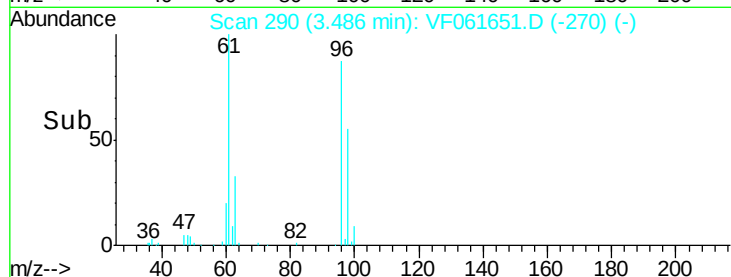
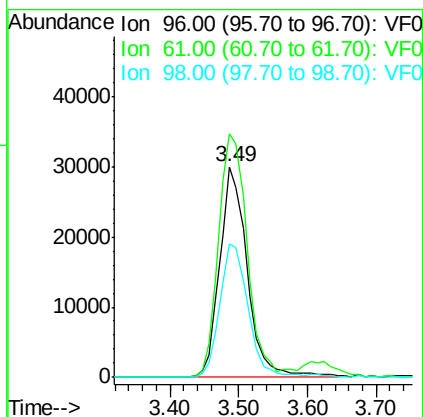
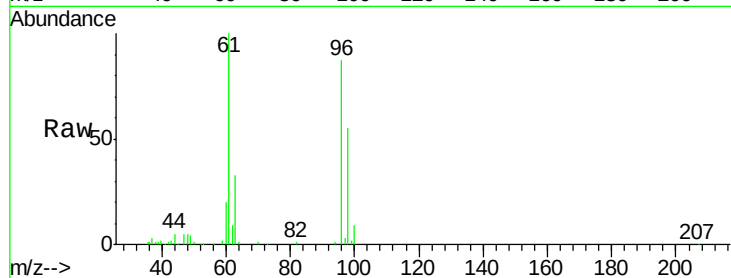


#27

cis-1,2-Dichloroethene
Concen: 20.384 ug/l
RT: 3.49 min Scan# 290
Delta R.T. -0.00 min
Lab File: VF061651.D
Acq: 15 Feb 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0215SBS01

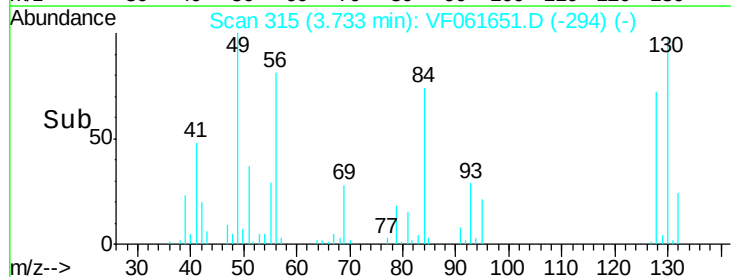
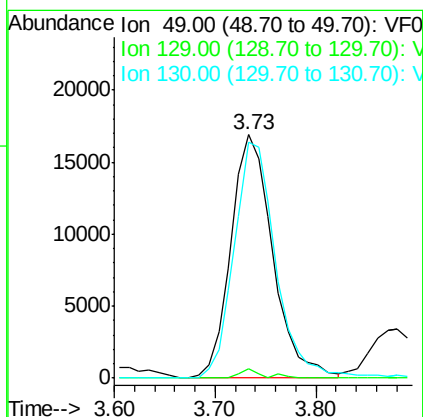
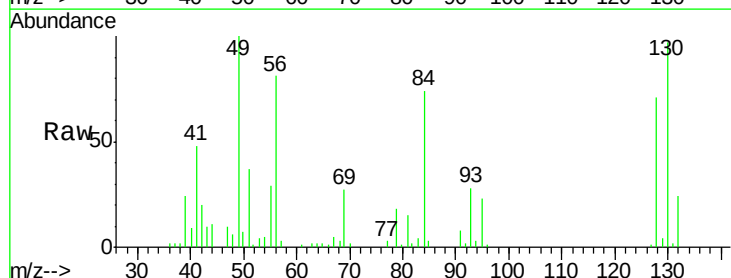
Tot Ion: 96 Resp: 83665
Ion Ratio Lower Upper
96 100
61 115.6 0.0 241.6
98 63.4 0.0 130.2

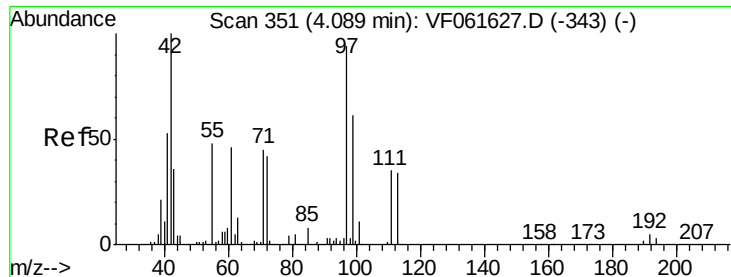


#28

Bromochloromethane
Concen: 19.896 ug/l
RT: 3.73 min Scan# 315
Delta R.T. 0.01 min
Lab File: VF061651.D
Acq: 15 Feb 2019 12:50

Tgt Ion: 49 Resp: 48951
Ion Ratio Lower Upper
49 100
129 3.7 0.0 3.4#
130 96.7 77.7 116.5





#29

Tetrahydrofuran

Concen: 98.417 ug/l

RT: 4.10 min Scan# 352

Delta R.T. 0.01 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0215SBS01

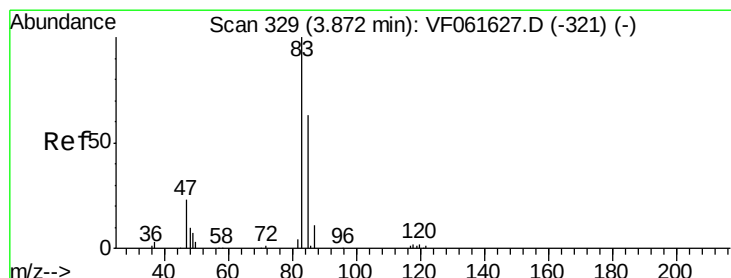
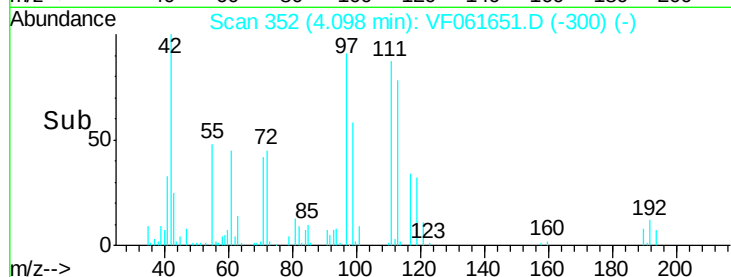
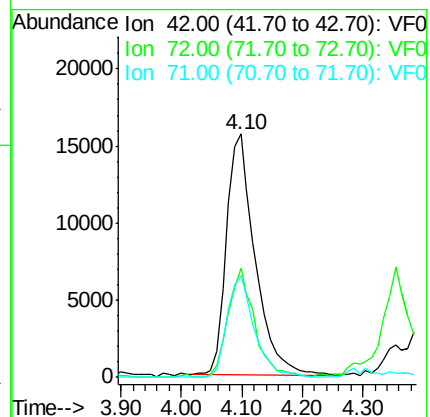
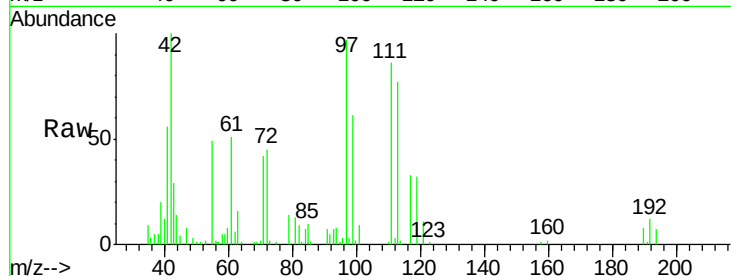
Tot Ion: 42 Resp: 51606

Ion Ratio Lower Upper

42 100

72 41.8 35.2 52.8

71 40.0 32.9 49.3



#30

Chloroform

Concen: 20.465 ug/l

RT: 3.88 min Scan# 330

Delta R.T. 0.01 min

Lab File: VF061651.D

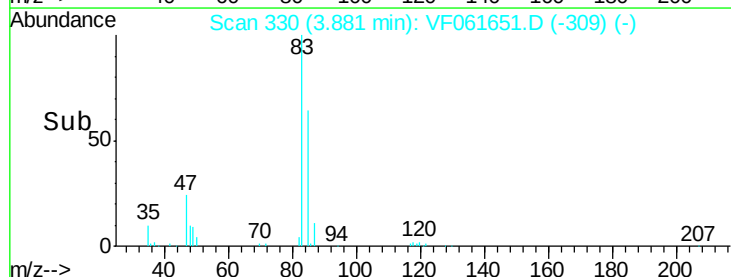
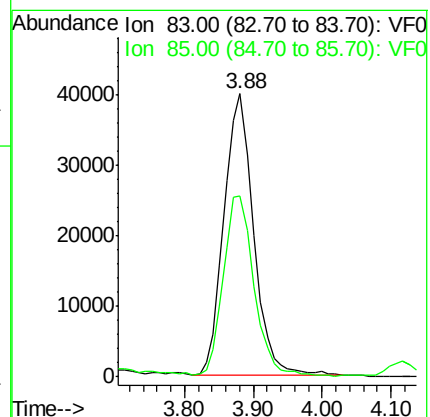
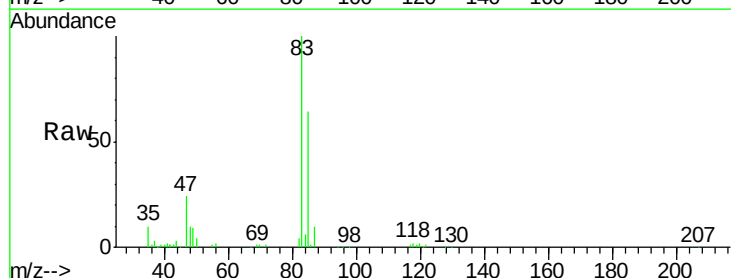
Acq: 15 Feb 2019 12:50

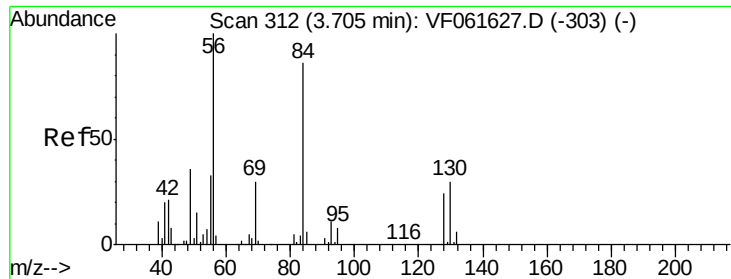
Tgt Ion: 83 Resp: 119335

Ion Ratio Lower Upper

83 100

85 63.9 51.1 76.7

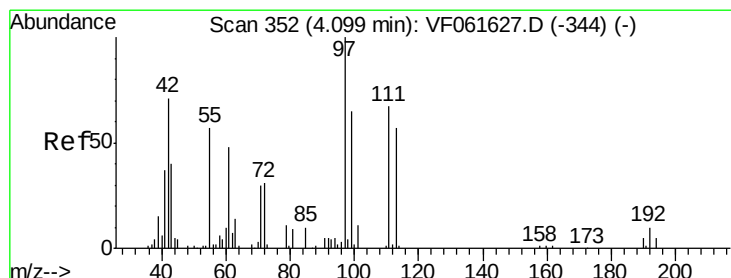
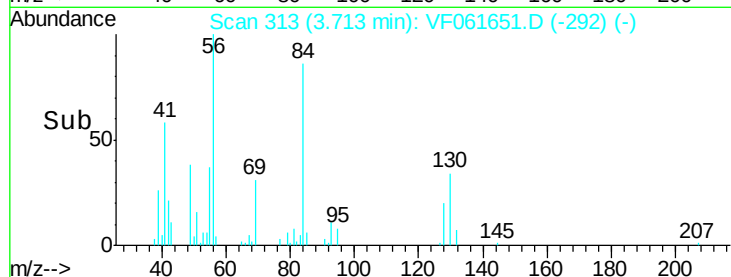
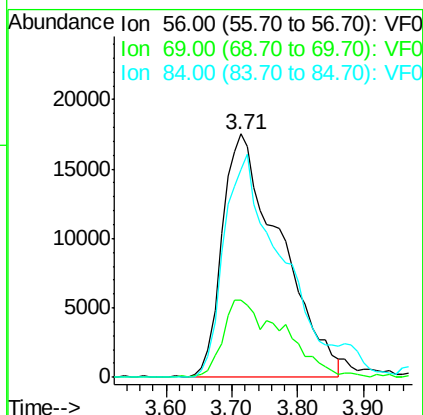
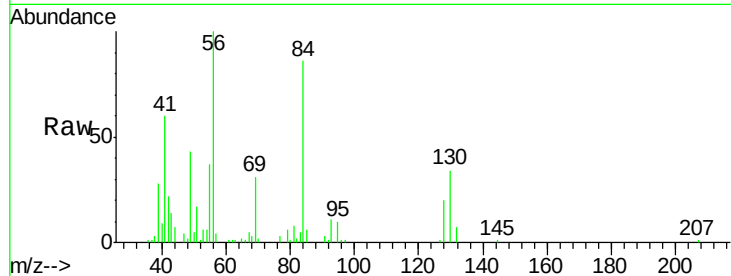




#31
Cyclohexane
Concen: 19.432 ug/l
RT: 3.71 min Scan# 313
Delta R.T. 0.01 min
Lab File: VF061651.D
Acq: 15 Feb 2019 12:50

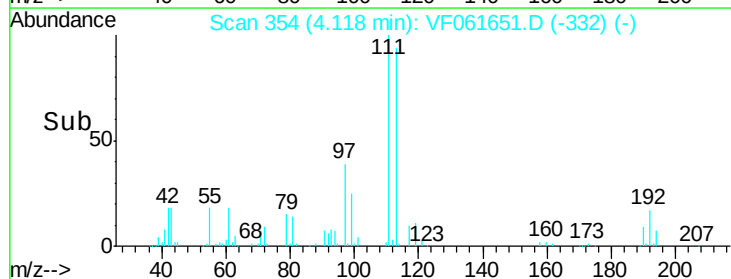
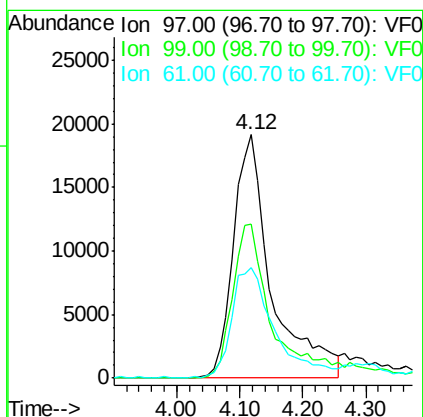
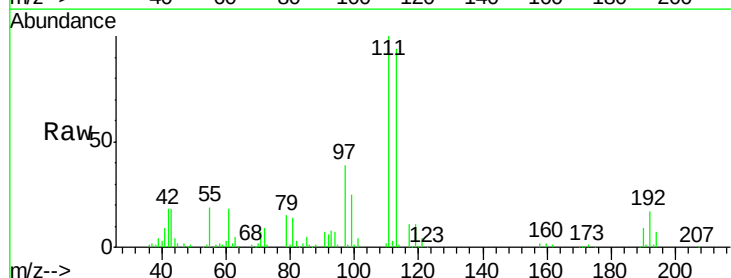
Instrument :
MSVOA_F
ClientSampleId :
VF0215SBS01

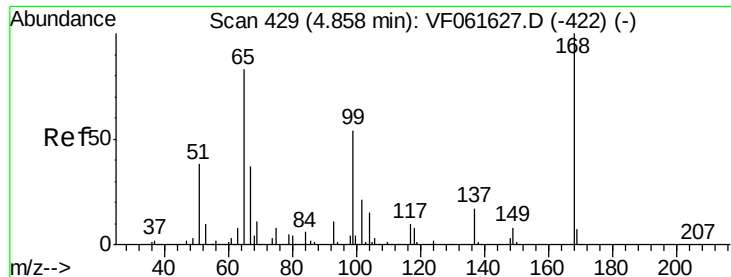
Tot Ion: 56 Resp: 107865
Ion Ratio Lower Upper
56 100
69 31.5 23.8 35.8
84 85.6 68.6 103.0



#32
1,1,1-Trichloroethane
Concen: 21.049 ug/l
RT: 4.12 min Scan# 354
Delta R.T. 0.02 min
Lab File: VF061651.D
Acq: 15 Feb 2019 12:50

Tgt Ion: 97 Resp: 80405
Ion Ratio Lower Upper
97 100
99 63.5 52.2 78.2
61 45.3 39.2 58.8

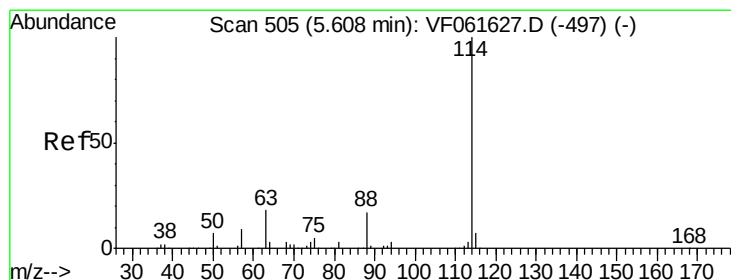
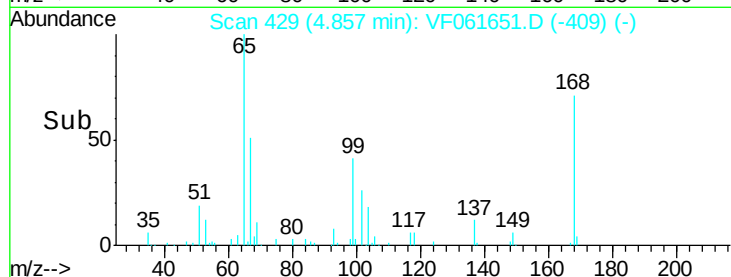
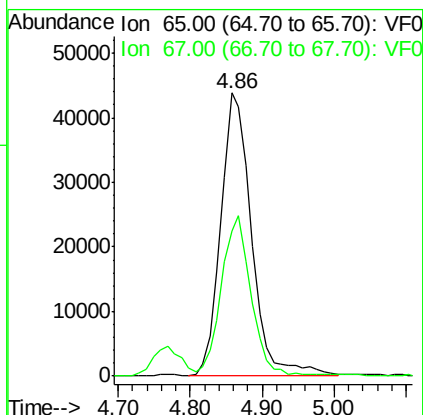
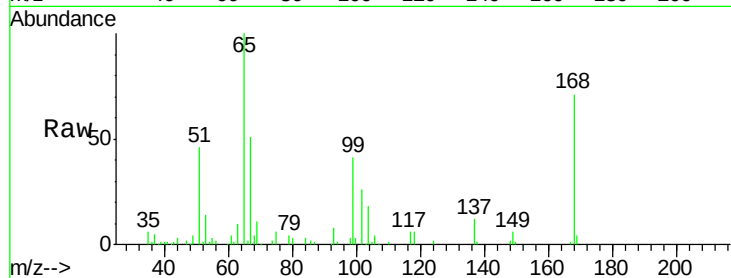




#33
 1,2-Dichloroethane-d4
 Concen: 52.046 ug/l
 RT: 4.86 min Scan# 429
 Delta R.T. -0.00 min
 Lab File: VF061651.D
 Acq: 15 Feb 2019 12:50

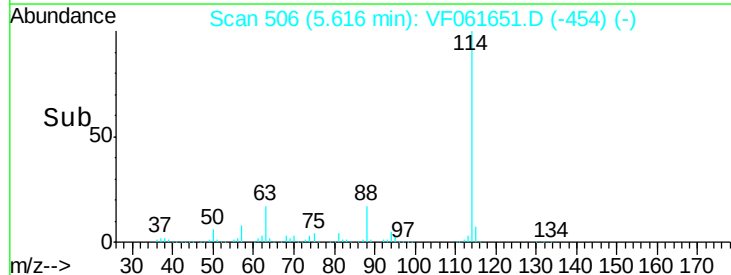
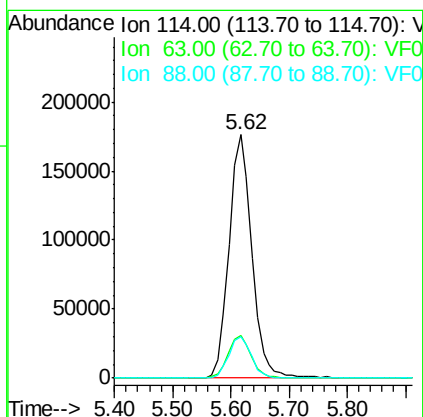
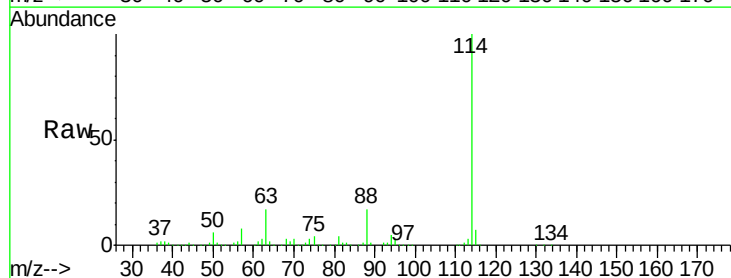
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0215SBS01

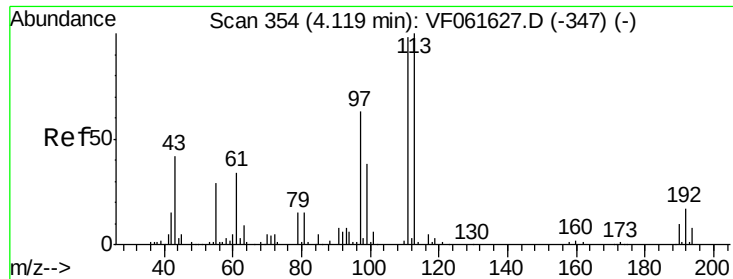
Tot Ion: 65 Resp: 128122
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.62 min Scan# 506
 Delta R.T. 0.01 min
 Lab File: VF061651.D
 Acq: 15 Feb 2019 12:50

Tgt Ion: 114 Resp: 481365
 Ion Ratio Lower Upper
 114 100
 63 17.5 0.0 36.6
 88 17.2 0.0 34.4

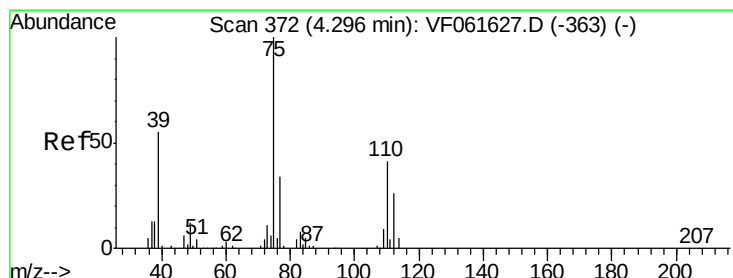
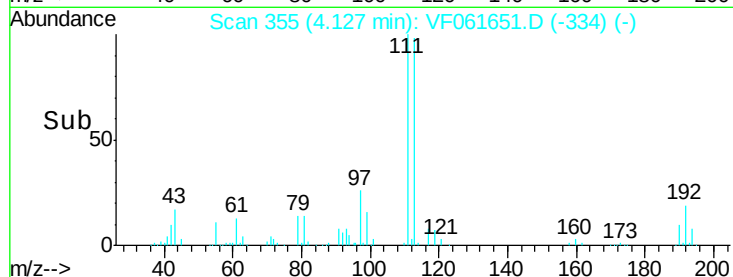
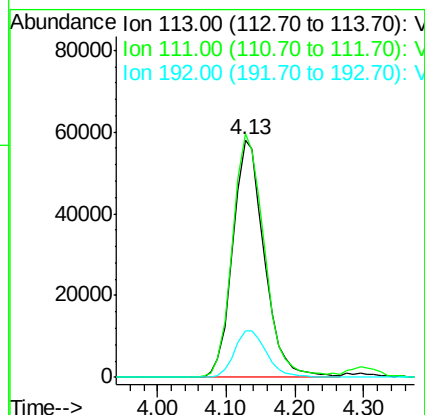
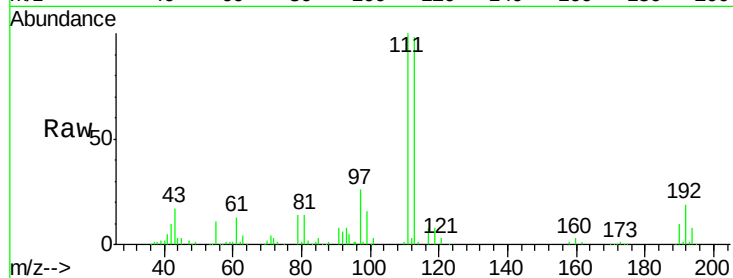




#35
 Dibromofluoromethane
 Concen: 51.571 ug/l
 RT: 4.13 min Scan# 355
 Delta R.T. 0.01 min
 Lab File: VF061651.D
 Acq: 15 Feb 2019 12:50

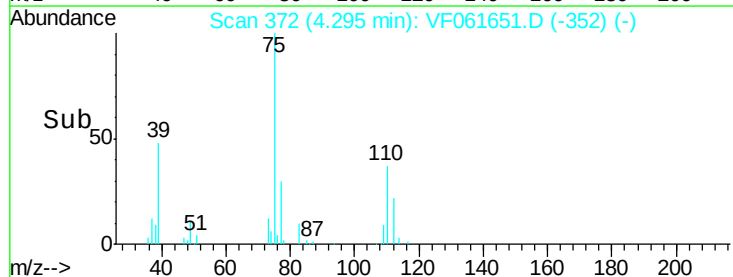
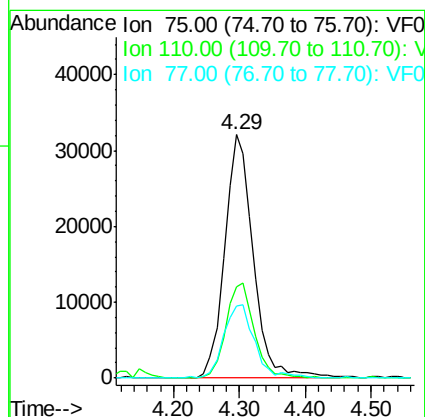
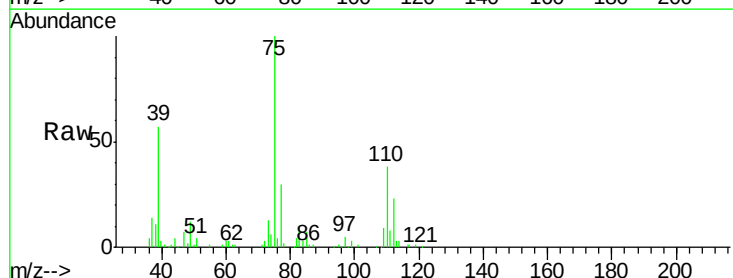
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0215SBS01

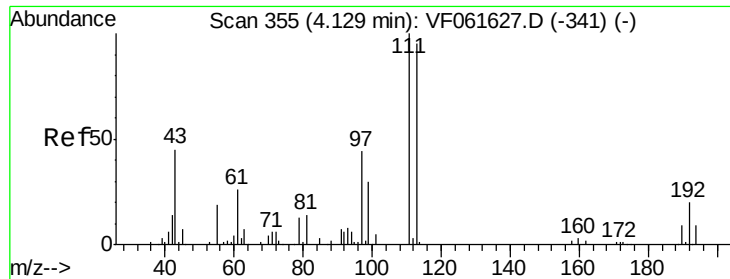
Tot Ion:113 Resp: 184350
 Ion Ratio Lower Upper
 113 100
 111 102.4 78.8 118.2
 192 19.3 13.4 20.0



#36
 1,1-Dichloropropene
 Concen: 20.398 ug/l
 RT: 4.29 min Scan# 372
 Delta R.T. -0.00 min
 Lab File: VF061651.D
 Acq: 15 Feb 2019 12:50

Tgt Ion: 75 Resp: 97267
 Ion Ratio Lower Upper
 75 100
 110 37.7 20.5 61.6
 77 29.7 27.0 40.4





#37

Ethyl Acetate

Concen: 18.591 ug/l

RT: 4.14 min Scan# 356

Delta R.T. 0.01 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0215SBS01

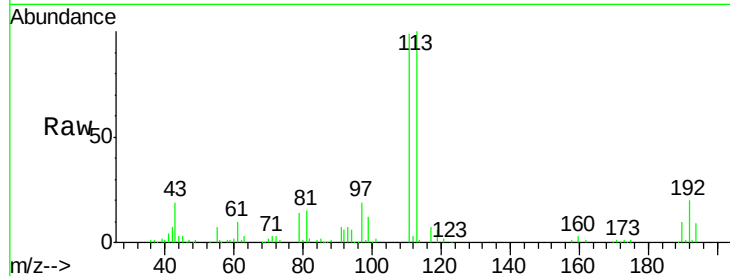
Tot Ion: 43 Resp: 41177

Ion Ratio Lower Upper

43 100

61 53.4 45.7 68.5

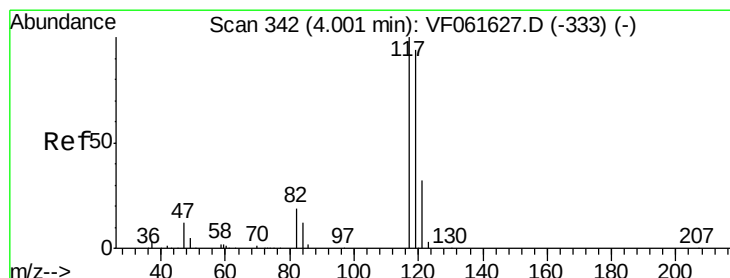
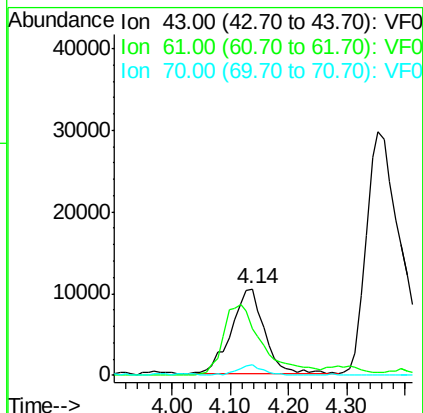
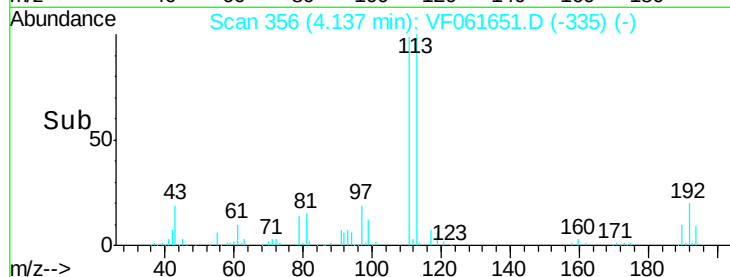
70 12.0 8.5 12.7



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: 22.316 ug/l

RT: 4.01 min Scan# 343

Delta R.T. 0.01 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

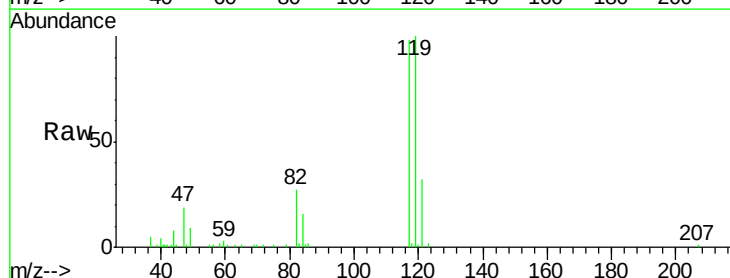
Tgt Ion: 117 Resp: 73480

Ion Ratio Lower Upper

117 100

119 101.7 75.6 113.4

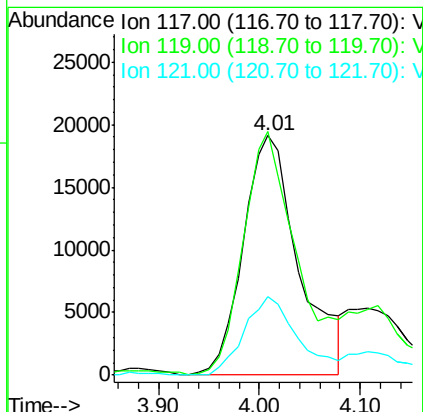
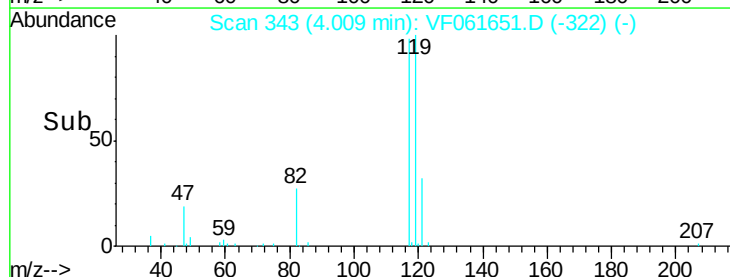
121 32.9 25.2 37.8

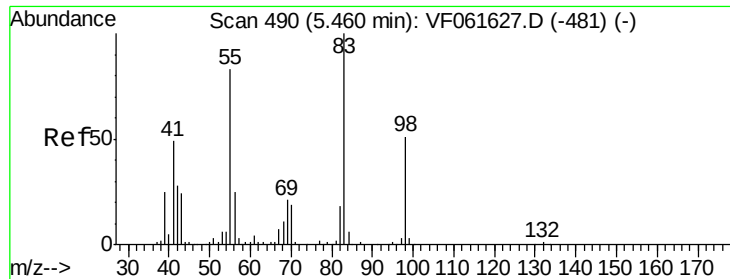


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

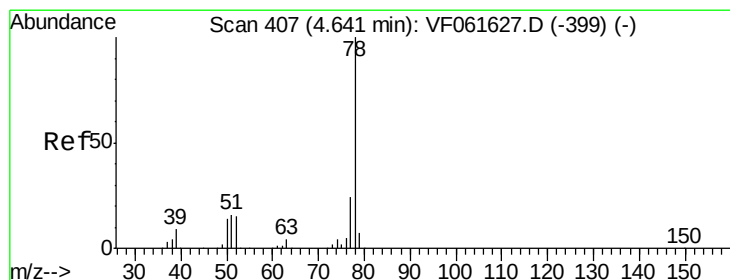
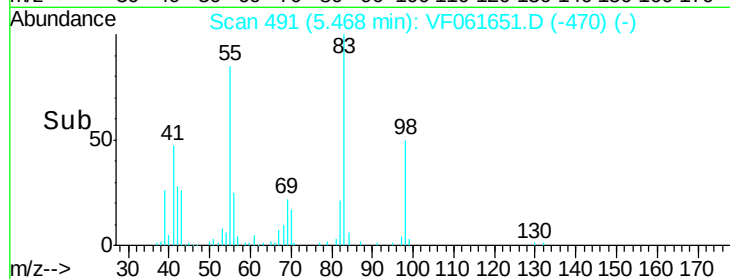
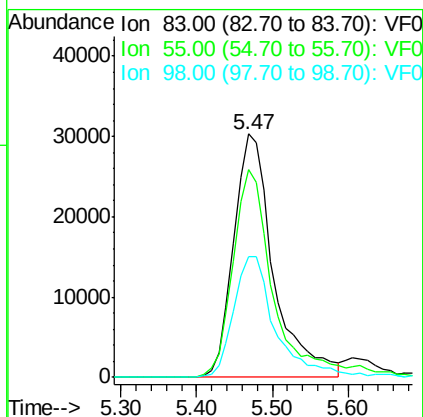
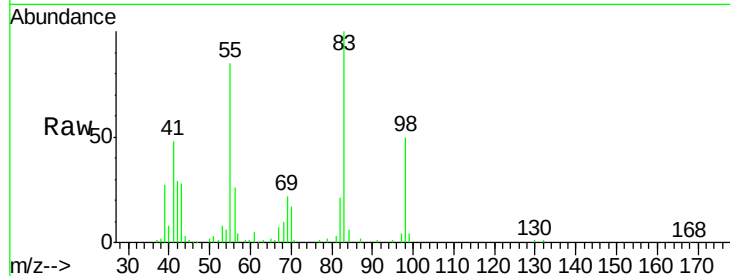




#39
Methylvlcyclohexane
Concen: 19.755 ug/l
RT: 5.47 min Scan# 491
Delta R.T. 0.01 min
Lab File: VF061651.D
Acq: 15 Feb 2019 12:50

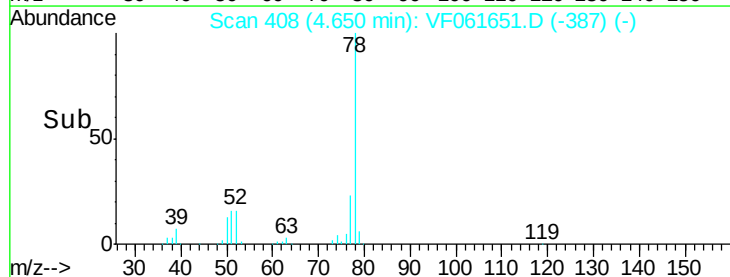
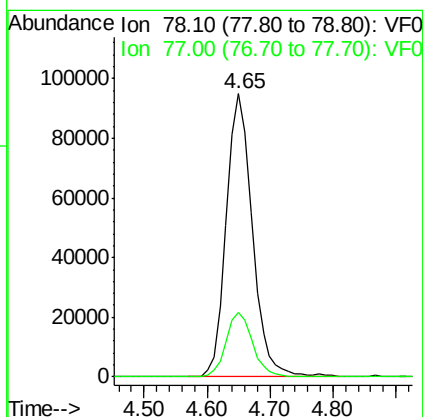
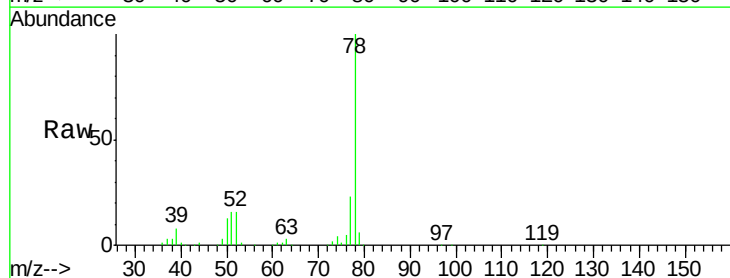
Instrument :
MSVOA_F
ClientSampleId :
VF0215SBS01

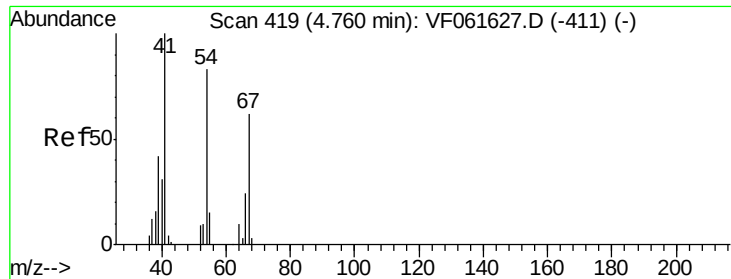
Tot Ion: 83 Resp: 111406
Ion Ratio Lower Upper
83 100
55 85.1 66.6 99.8
98 49.8 40.4 60.6



#40
Benzene
Concen: 21.896 ug/l
RT: 4.65 min Scan# 408
Delta R.T. 0.01 min
Lab File: VF061651.D
Acq: 15 Feb 2019 12:50

Tgt Ion: 78 Resp: 273100
Ion Ratio Lower Upper
78 100
77 22.9 19.0 28.6





#41

Methacrylonitrile

Concen: 22.572 ug/l

RT: 4.76 min Scan# 419

Delta R.T. -0.00 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0215SBS01

Tot Ion: 41 Resp: 25567

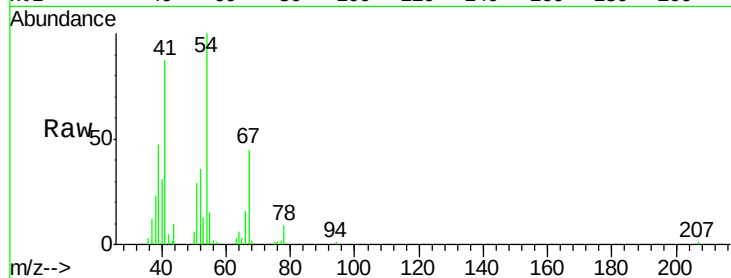
Ion Ratio Lower Upper

41 100

39 53.8 45.3 67.9

67 51.9 49.3 73.9

52 41.8 32.6 49.0

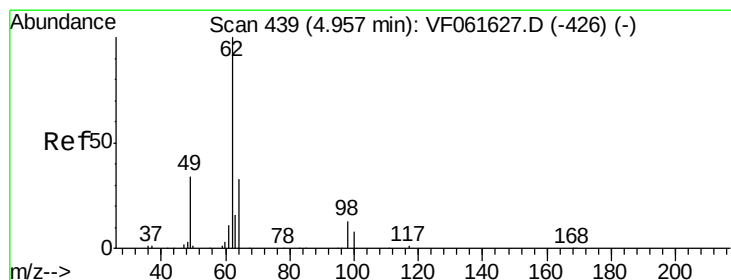
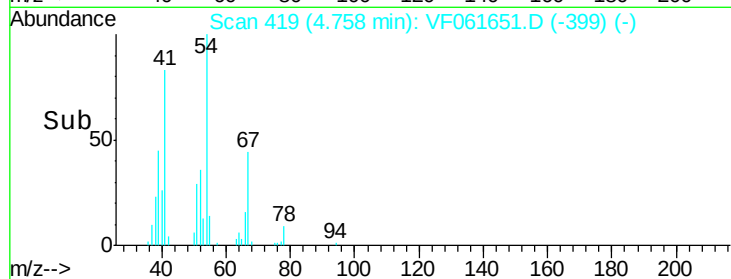
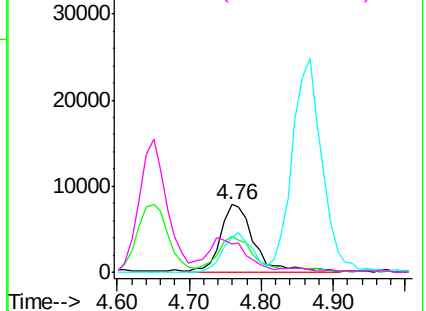


Abundance Ion 41.00 (40.70 to 41.70): VF0

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: 19.573 ug/l

RT: 4.96 min Scan# 439

Delta R.T. -0.00 min

Lab File: VF061651.D

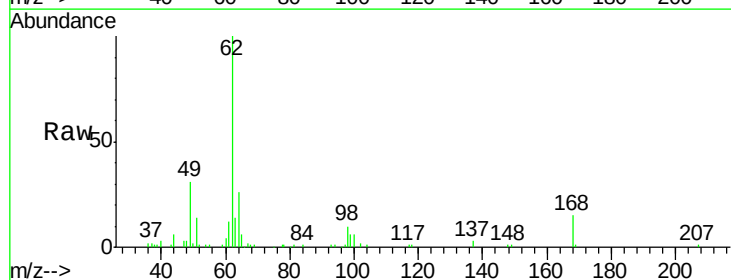
Acq: 15 Feb 2019 12:50

Tgt Ion: 62 Resp: 58397

Ion Ratio Lower Upper

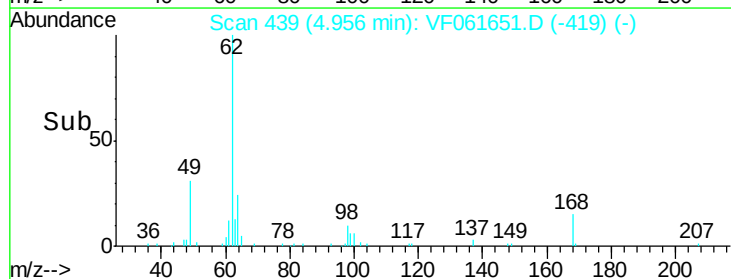
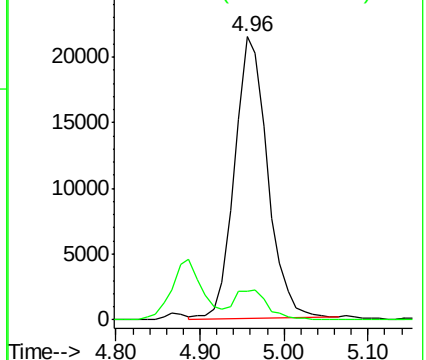
62 100

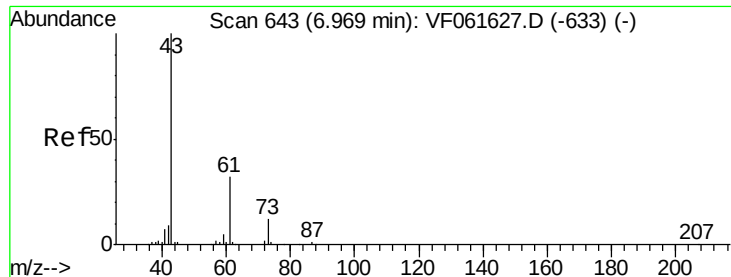
98 10.1 0.0 26.0



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#43

Isopropyl Acetate

Concen: 20.748 ug/l

RT: 6.98 min Scan# 644

Delta R.T. 0.01 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0215SBS01

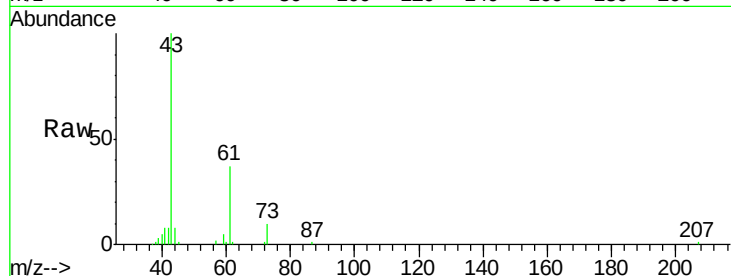
Tot Ion: 43 Resp: 54394

Ion Ratio Lower Upper

43 100

61 36.7 25.8 38.6

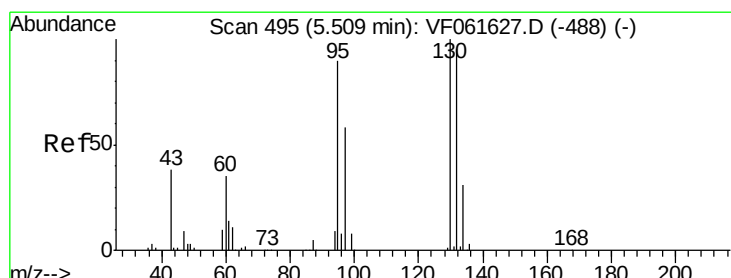
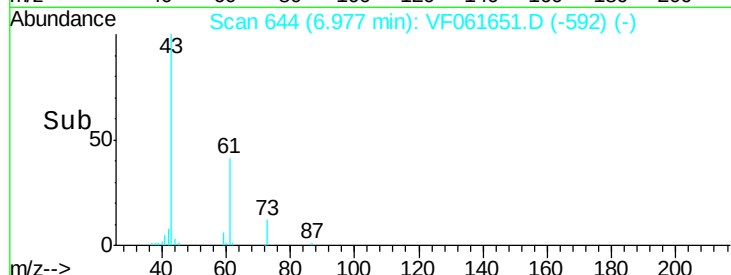
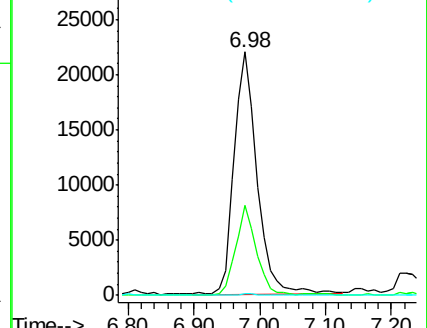
87 0.5 0.4 0.6



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: 21.080 ug/l

RT: 5.52 min Scan# 496

Delta R.T. 0.01 min

Lab File: VF061651.D

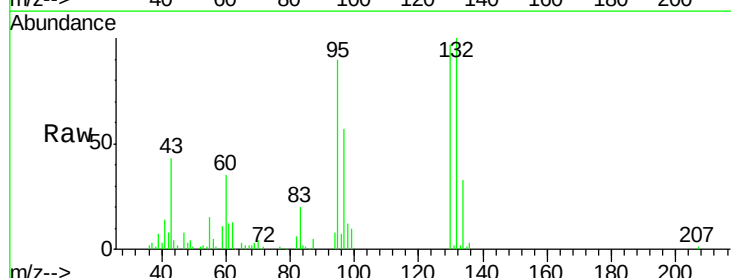
Acq: 15 Feb 2019 12:50

Tgt Ion: 130 Resp: 85025

Ion Ratio Lower Upper

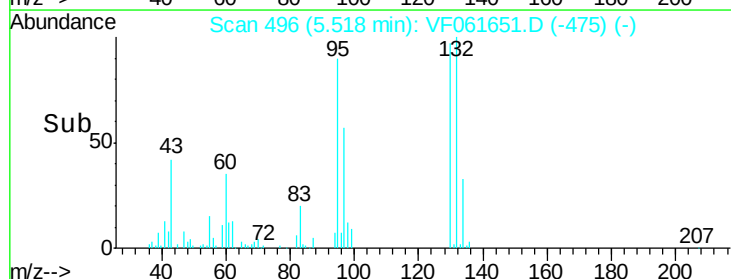
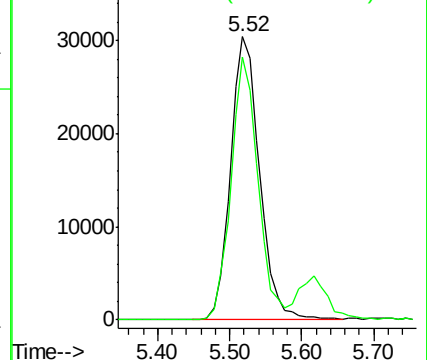
130 100

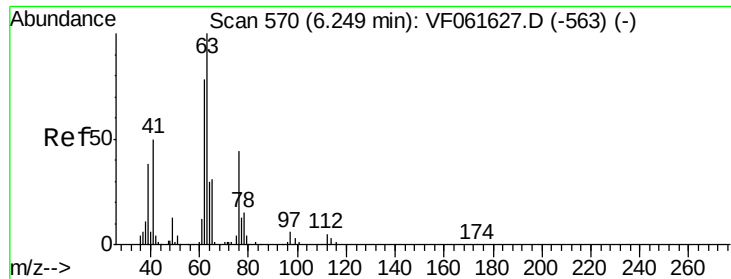
95 92.7 0.0 179.4



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0

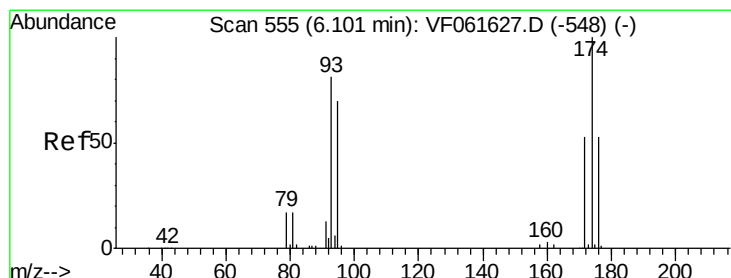
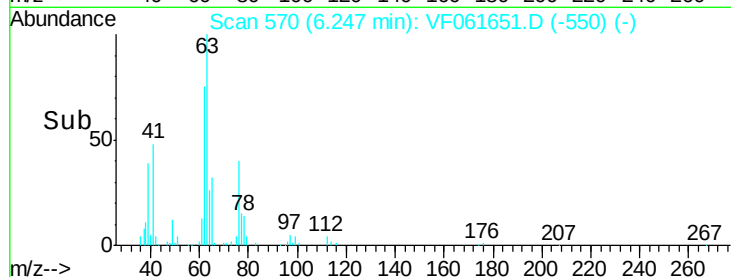
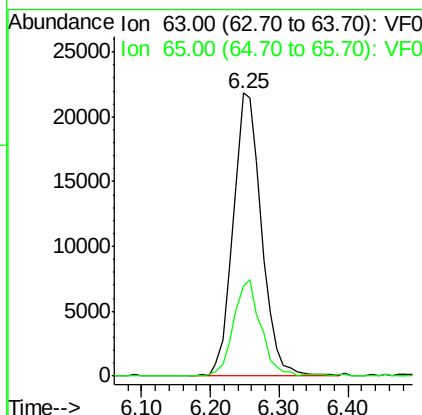
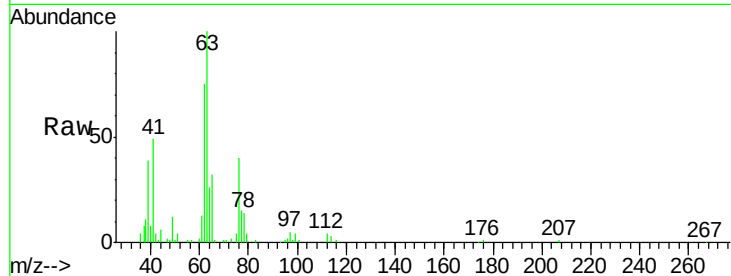




#45
 1,2-Dichloropropane
 Concen: 20.650 ug/l
 RT: 6.25 min Scan# 570
 Delta R.T. -0.00 min
 Lab File: VF061651.D
 Acq: 15 Feb 2019 12:50

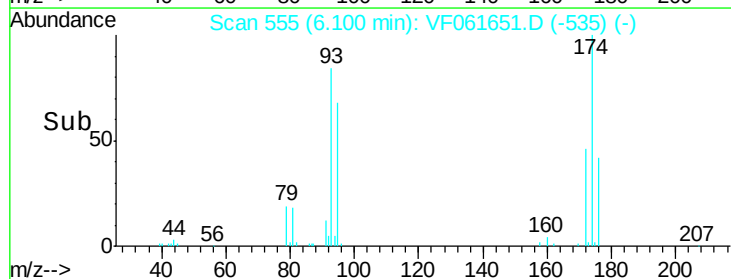
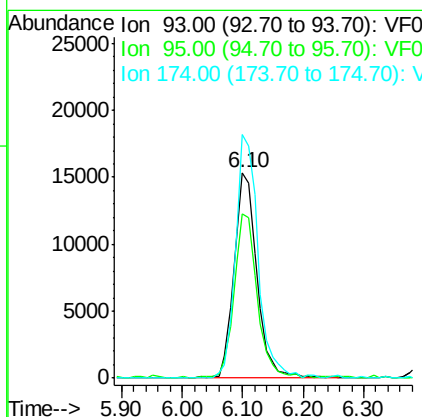
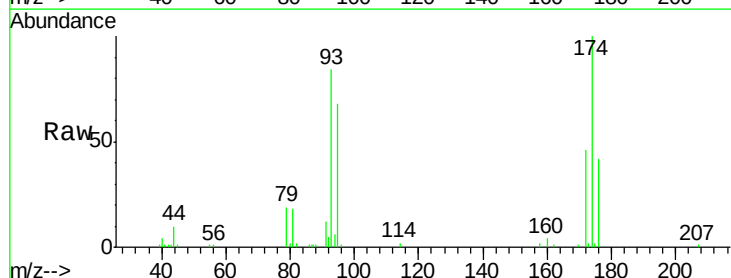
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0215SBS01

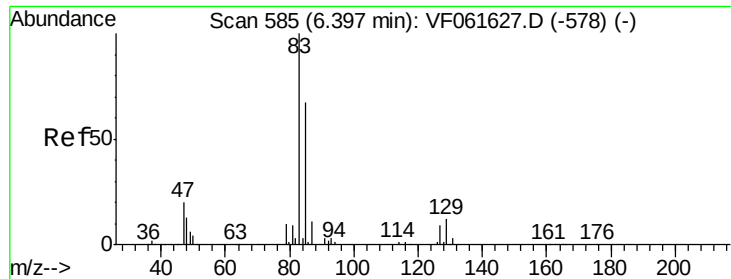
Tot Ion: 63 Resp: 62258
 Ion Ratio Lower Upper
 63 100
 65 31.7 24.9 37.3



#46
 Dibromomethane
 Concen: 21.685 ug/l
 RT: 6.10 min Scan# 555
 Delta R.T. -0.00 min
 Lab File: VF061651.D
 Acq: 15 Feb 2019 12:50

Tgt Ion: 93 Resp: 40253
 Ion Ratio Lower Upper
 93 100
 95 80.1 69.0 103.6
 174 118.5 99.3 148.9





#47

Bromodichloromethane

Concen: 21.121 ug/l

RT: 6.41 min Scan# 586

Delta R.T. 0.01 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0215SBS01

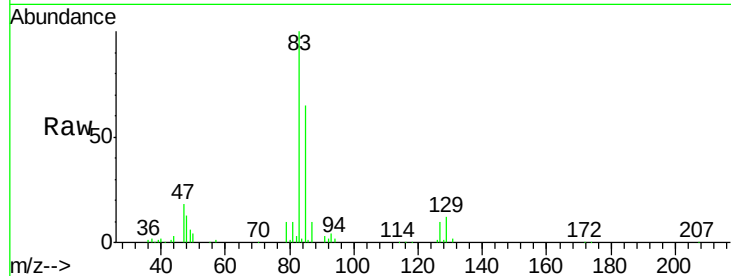
Tot Ion: 83 Resp: 85860

Ion Ratio Lower Upper

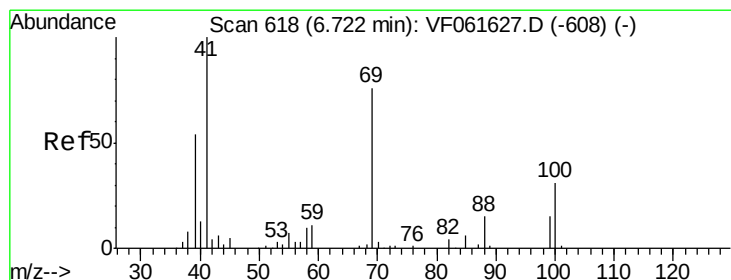
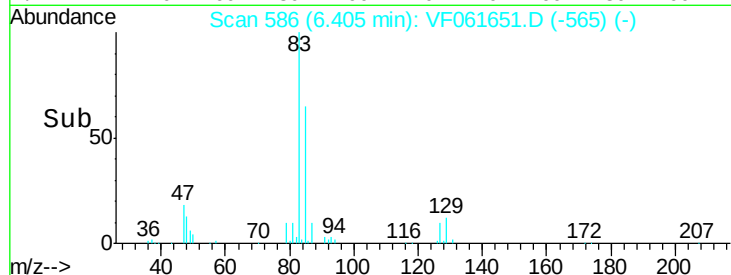
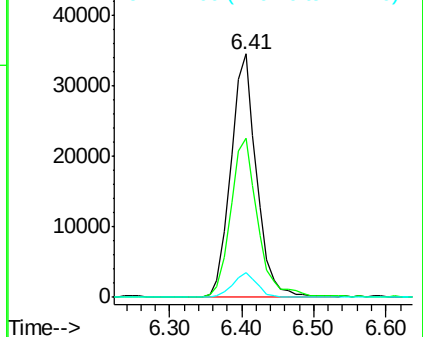
83 100

85 65.3 53.4 80.2

127 10.2 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: 20.679 ug/l

RT: 6.73 min Scan# 619

Delta R.T. 0.01 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

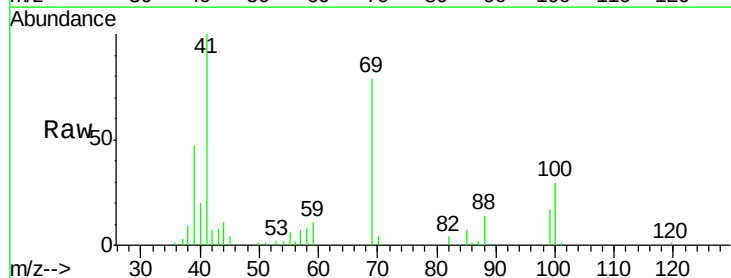
Tgt Ion: 41 Resp: 32625

Ion Ratio Lower Upper

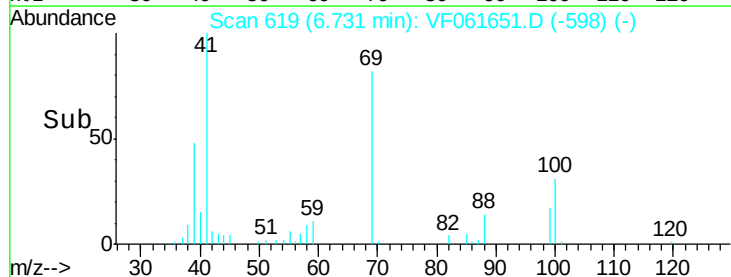
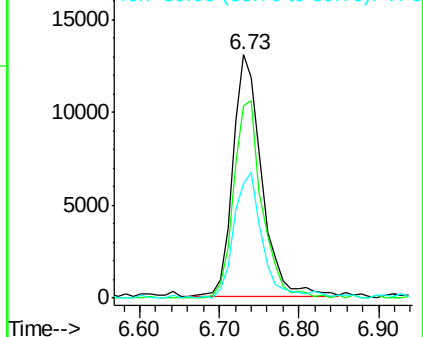
41 100

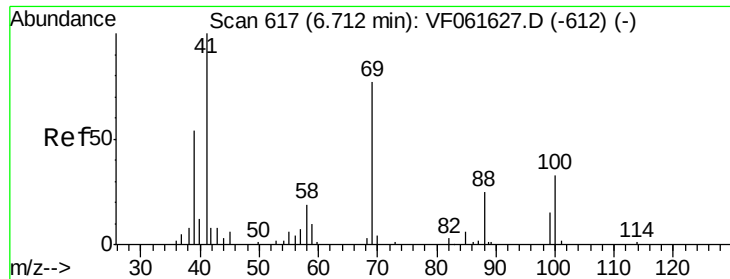
69 79.2 60.4 90.6

39 47.2 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

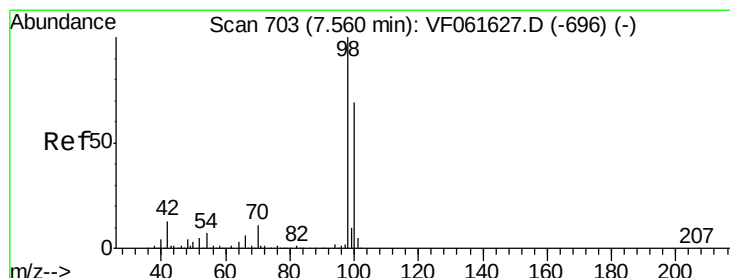
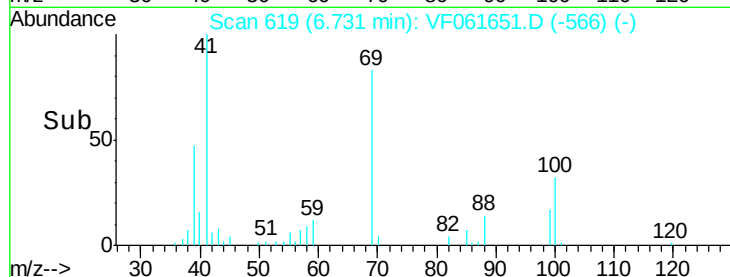
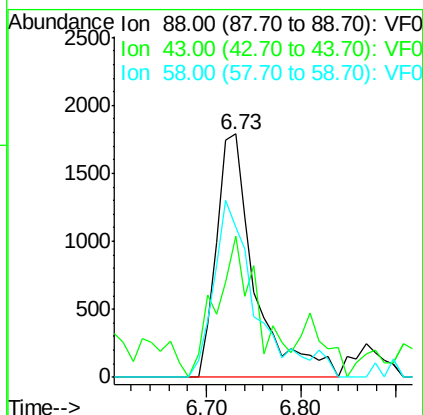
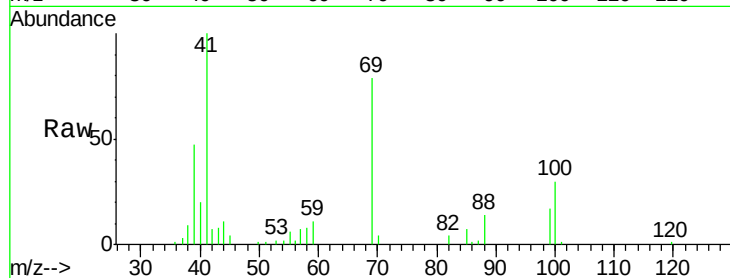




#49
1,4-Dioxane
Concen: 337.126 ug/l
RT: 6.73 min Scan# 619
Delta R.T. 0.02 min
Lab File: VF061651.D
Acq: 15 Feb 2019 12:50

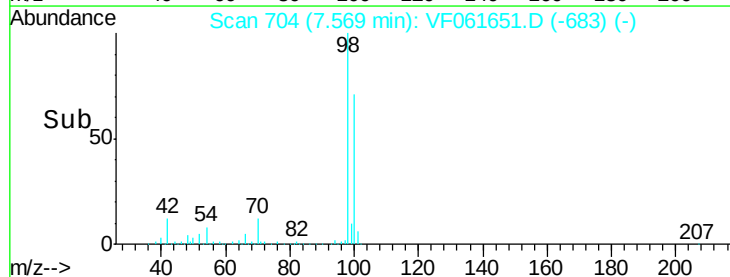
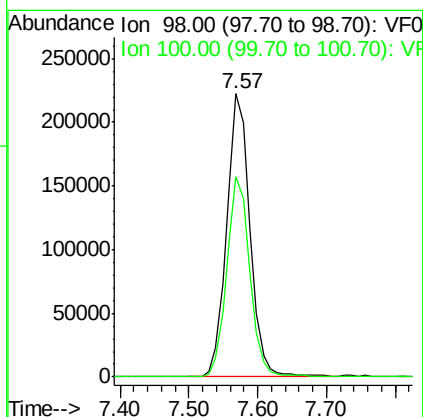
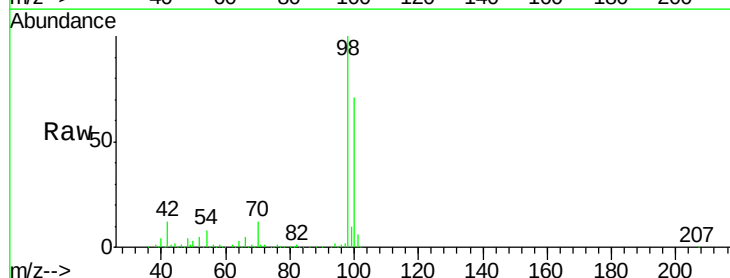
Instrument :
MSVOA_F
ClientSampleId :
VF0215SBS01

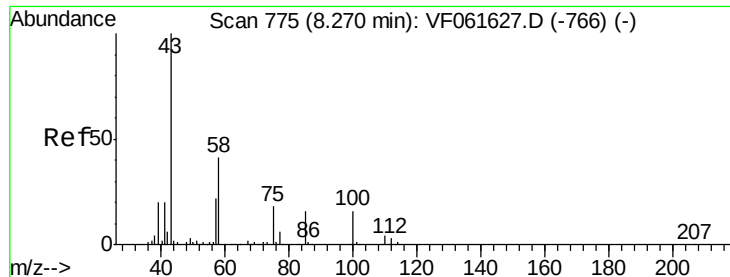
Tot Ion: 88 Resp: 5000
Ion Ratio Lower Upper
88 100
43 58.1 32.3 48.5#
58 61.7 59.4 89.2



#50
Toluene-d8
Concen: 50.745 ug/l
RT: 7.57 min Scan# 704
Delta R.T. 0.01 min
Lab File: VF061651.D
Acq: 15 Feb 2019 12:50

Tgt Ion: 98 Resp: 521460
Ion Ratio Lower Upper
98 100
100 70.8 55.4 83.2





#51

4-Methyl-2-Pentanone

Concen: 104.481 ug/l

RT: 8.28 min Scan# 776

Delta R.T. 0.01 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

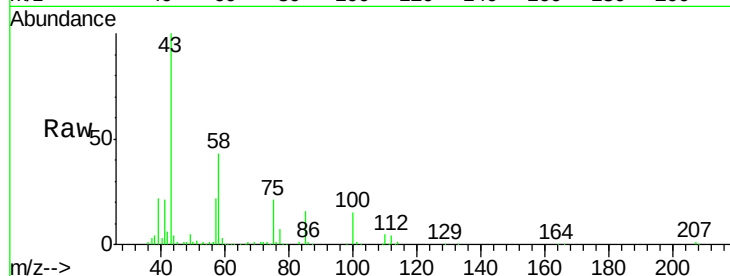
VF0215SBS01

Tot Ion: 43 Resp: 195723

Ion Ratio Lower Upper

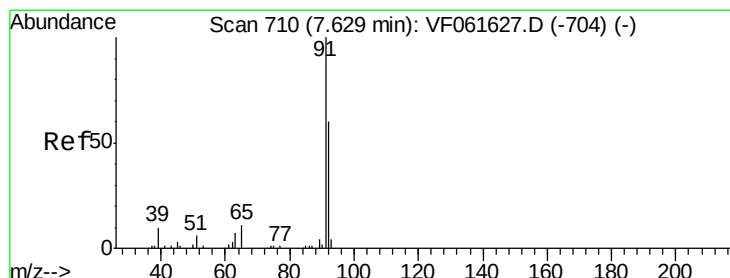
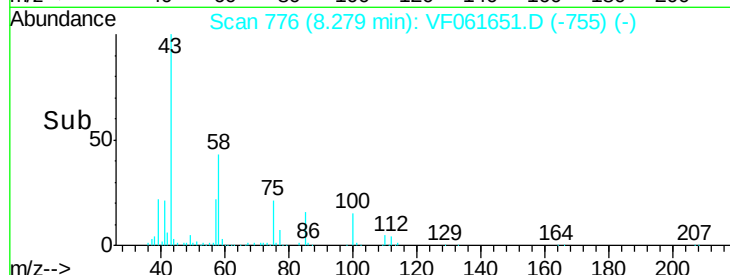
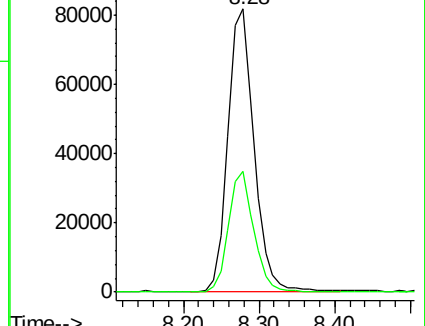
43 100

58 42.7 33.1 49.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 20.803 ug/l

RT: 7.64 min Scan# 711

Delta R.T. 0.01 min

Lab File: VF061651.D

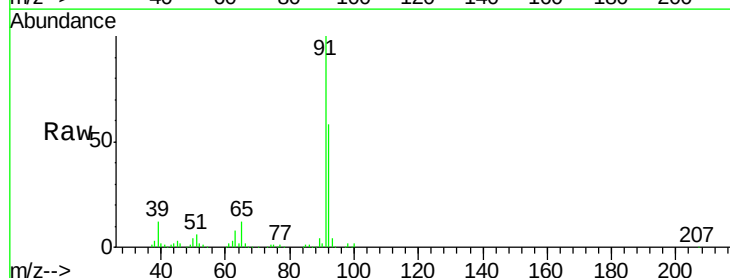
Acq: 15 Feb 2019 12:50

Tgt Ion: 92 Resp: 157367

Ion Ratio Lower Upper

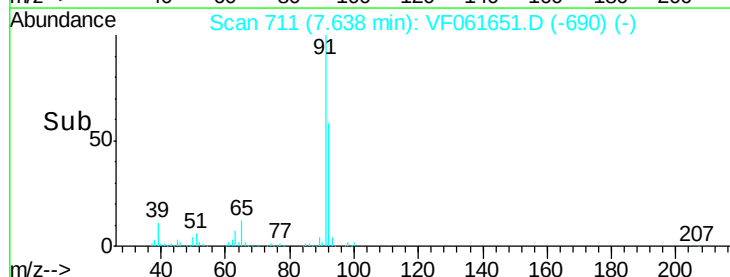
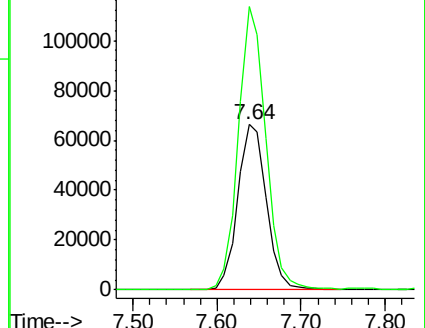
92 100

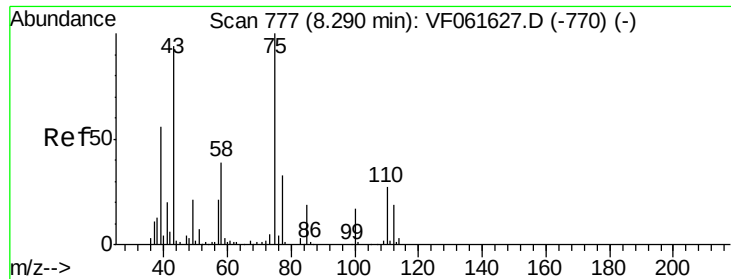
91 171.5 133.9 200.9



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 20.220 ug/l

RT: 8.29 min Scan# 777

Delta R.T. -0.00 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

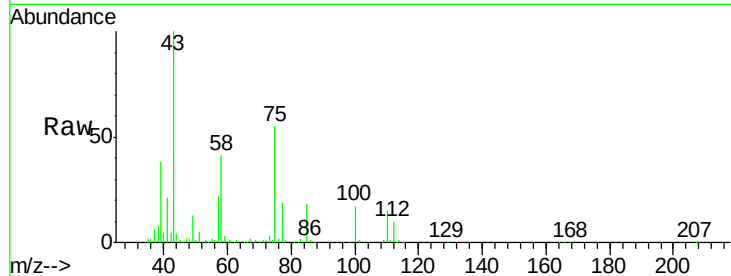
VF0215SBS01

Tot Ion: 75 Resp: 68407

Ion Ratio Lower Upper

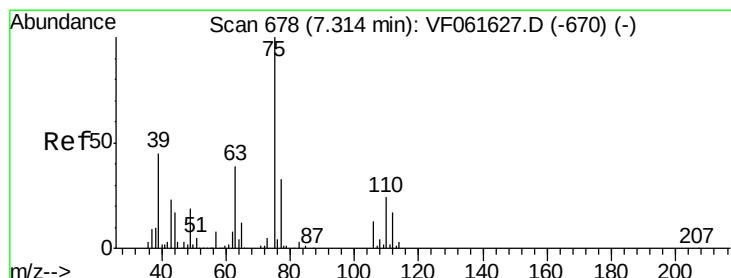
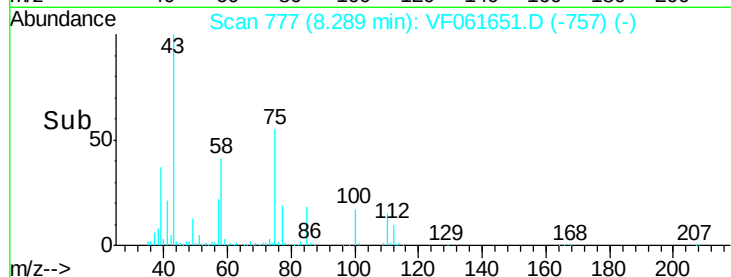
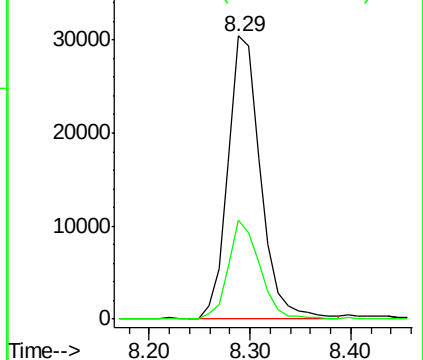
75 100

77 35.2 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#54

cis-1,3-Dichloropropene

Concen: 21.532 ug/l

RT: 7.32 min Scan# 679

Delta R.T. 0.01 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

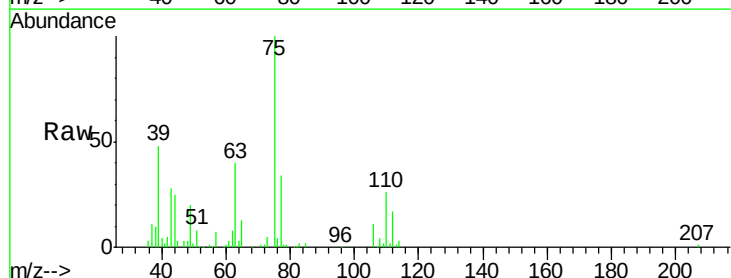
Tgt Ion: 75 Resp: 97032

Ion Ratio Lower Upper

75 100

77 33.9 26.4 39.6

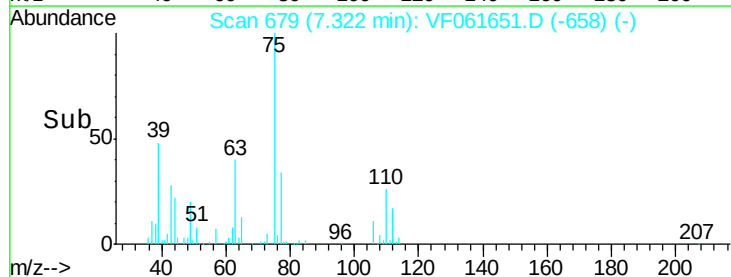
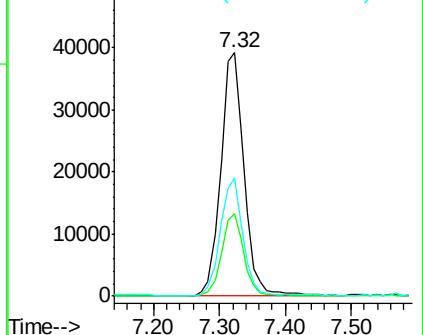
39 48.3 36.0 54.0

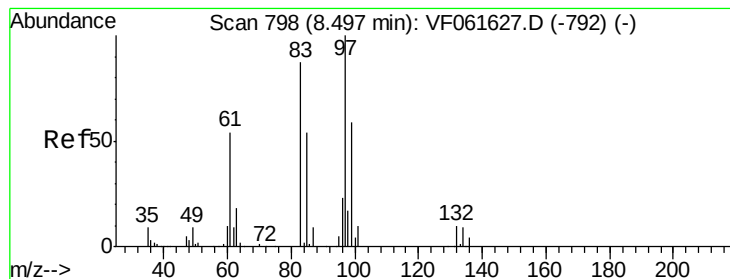


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#55

1,1,2-Trichloroethane

Concen: 21.274 ug/l

RT: 8.51 min Scan# 799

Delta R.T. 0.01 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0215SBS01

Tot Ion: 97 Resp: 47282

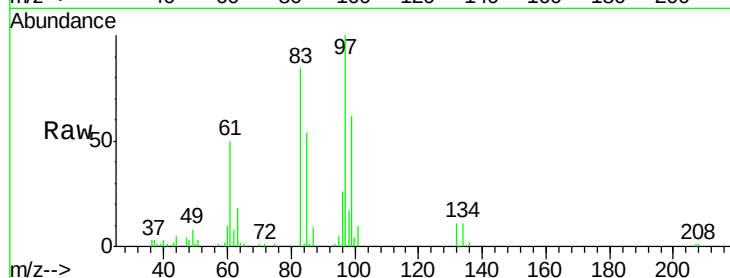
Ion Ratio Lower Upper

97 100

83 83.8 69.2 103.8

85 53.8 43.0 64.4

99 61.7 47.2 70.8

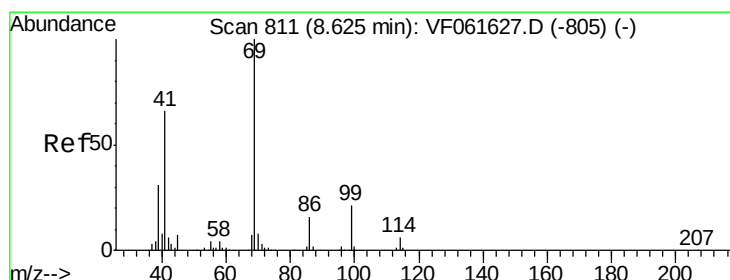
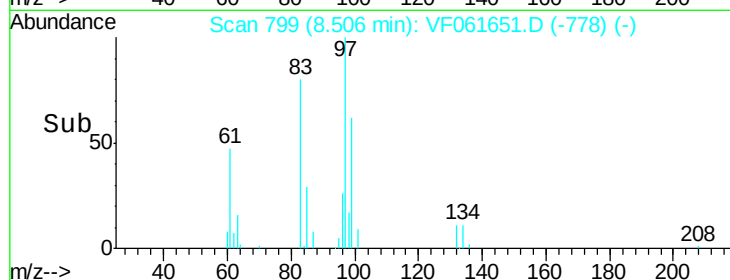
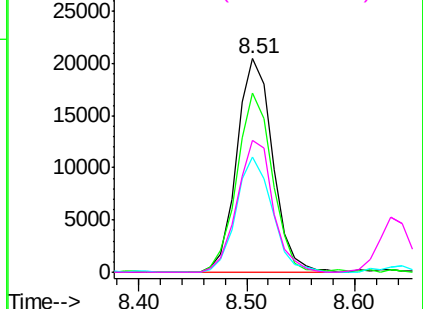


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 22.205 ug/l

RT: 8.63 min Scan# 812

Delta R.T. 0.01 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

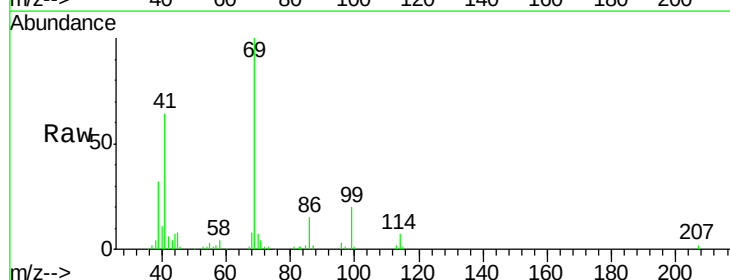
Tgt Ion: 69 Resp: 54947

Ion Ratio Lower Upper

69 100

41 64.1 52.9 79.3

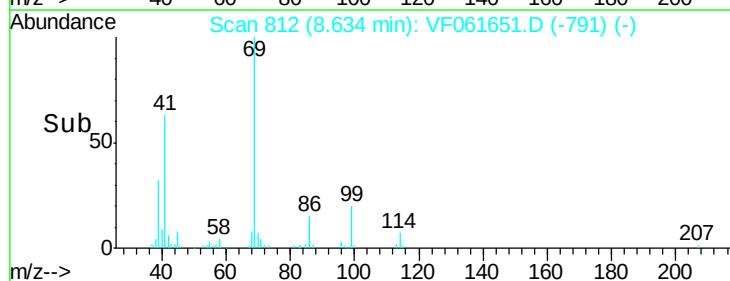
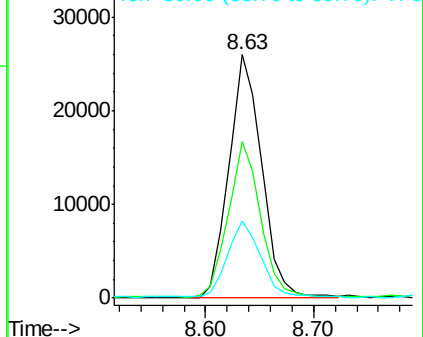
39 31.7 24.5 36.7

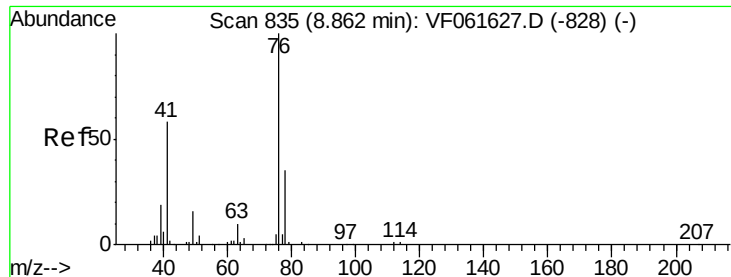


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 20.250 ug/l

RT: 8.87 min Scan# 836

Delta R.T. 0.01 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

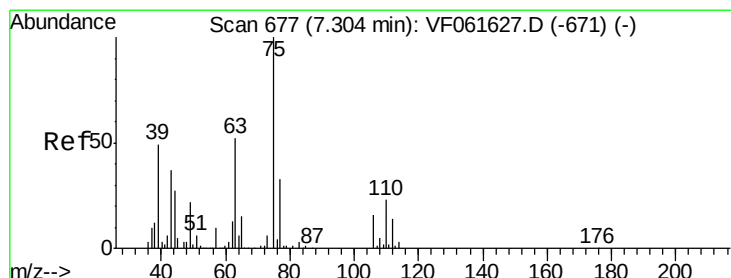
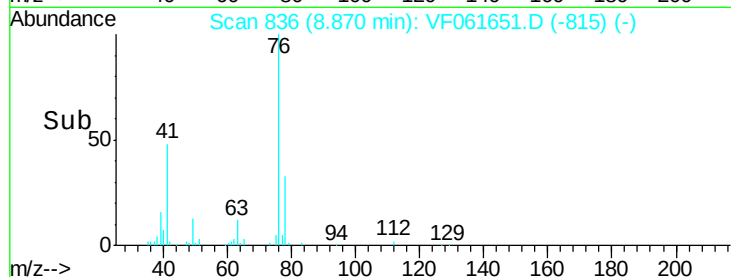
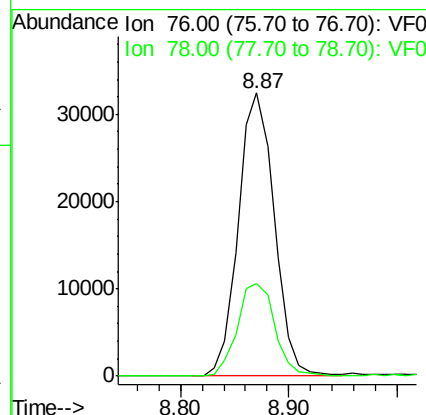
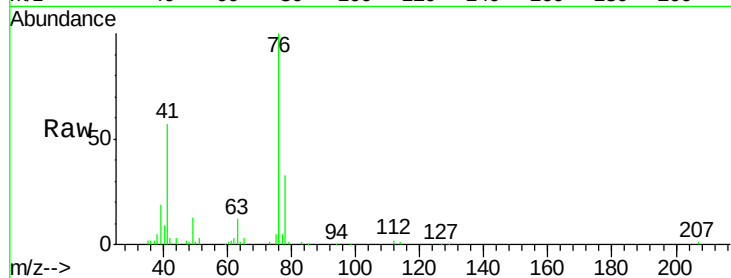
VF0215SBS01

Tot Ion: 76 Resp: 75123

Ion Ratio Lower Upper

76 100

78 32.6 27.8 41.6



#58

2-Chloroethyl Vinyl ether

Concen: 103.692 ug/l

RT: 7.31 min Scan# 678

Delta R.T. 0.01 min

Lab File: VF061651.D

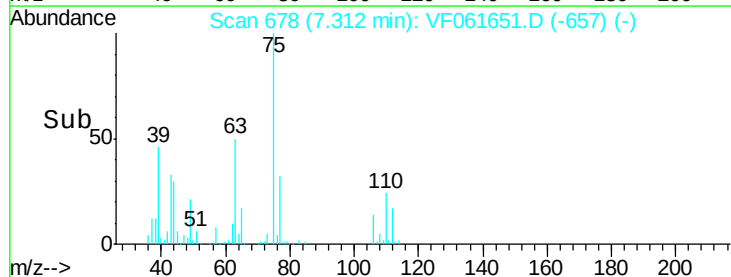
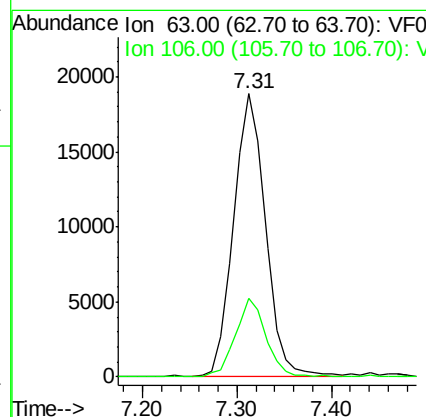
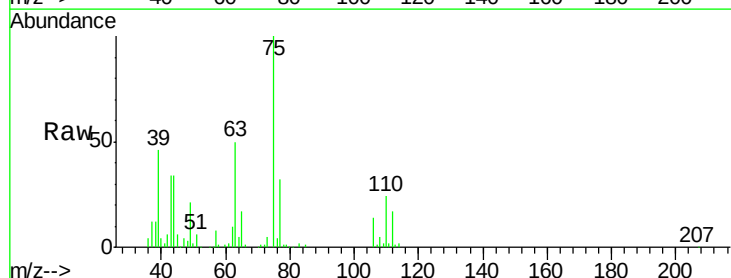
Acq: 15 Feb 2019 12:50

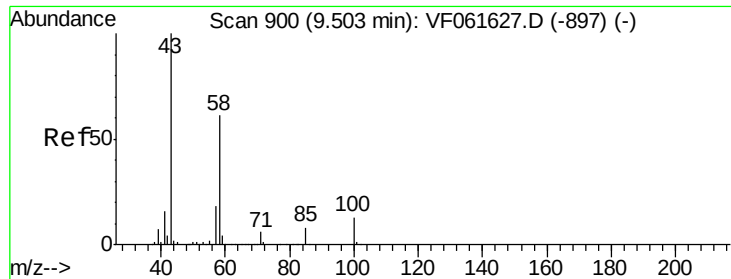
Tgt Ion: 63 Resp: 44270

Ion Ratio Lower Upper

63 100

106 27.7 24.6 36.8

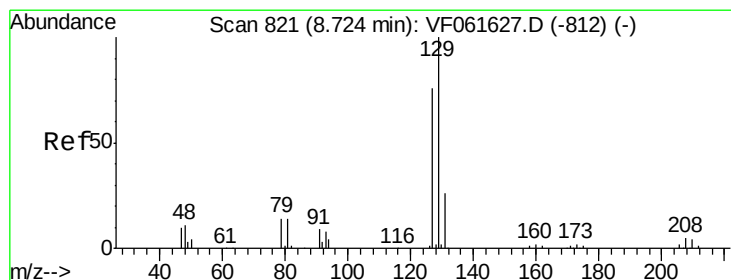
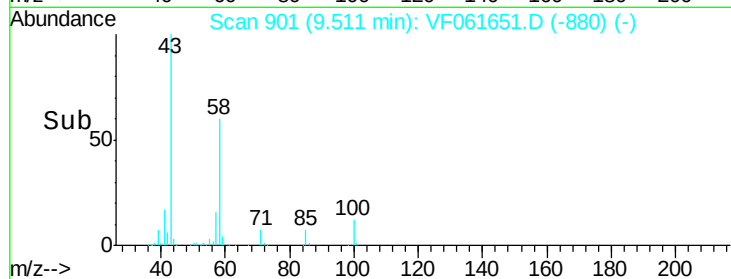
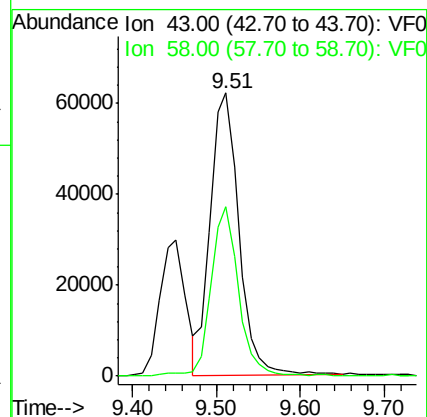
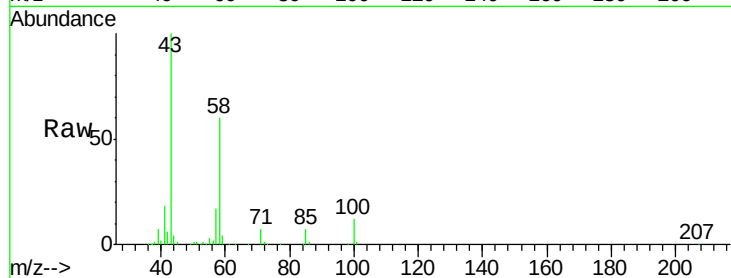




#59
2-Hexanone
Concen: 112.037 ug/l
RT: 9.51 min Scan# 901
Delta R.T. 0.01 min
Lab File: VF061651.D
Acq: 15 Feb 2019 12:50

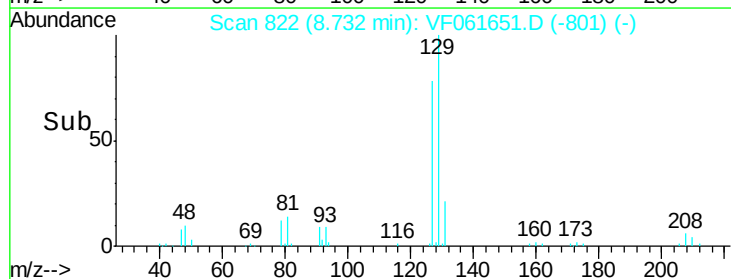
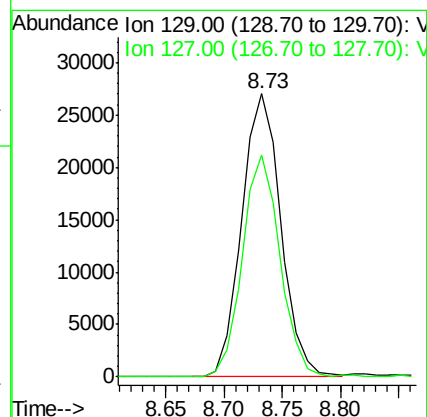
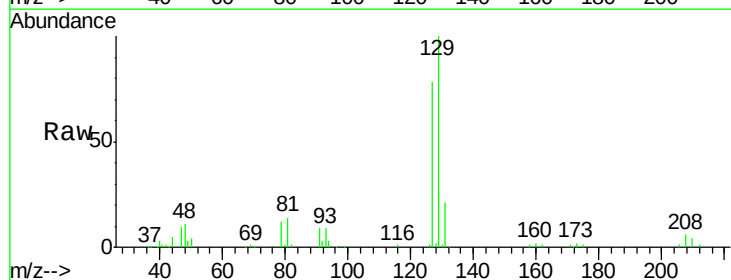
Instrument :
MSVOA_F
ClientSampleId :
VF0215SBS01

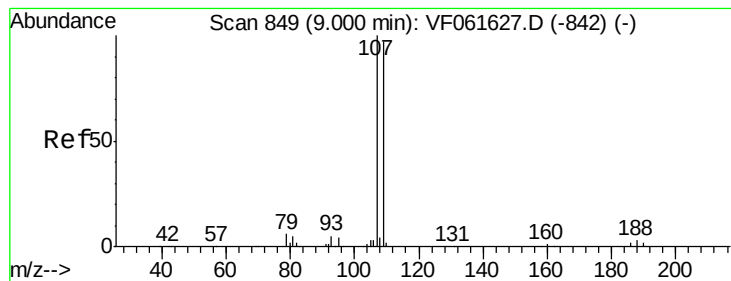
Tot Ion: 43 Resp: 147118
Ion Ratio Lower Upper
43 100
58 59.7 28.5 85.5



#60
Dibromochloromethane
Concen: 20.342 ug/l
RT: 8.73 min Scan# 822
Delta R.T. 0.01 min
Lab File: VF061651.D
Acq: 15 Feb 2019 12:50

Tgt Ion: 129 Resp: 62929
Ion Ratio Lower Upper
129 100
127 78.5 37.8 113.4





#61

1,2-Dibromoethane

Concen: 21.147 ug/l

RT: 9.00 min Scan# 849

Delta R.T. -0.00 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

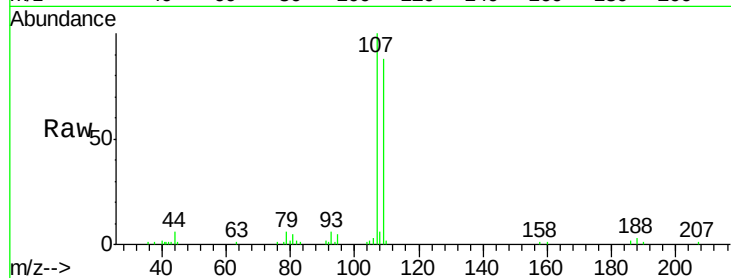
VF0215SBS01

Tot Ion:107 Resp: 50978

Ion Ratio Lower Upper

107 100

109 87.9 77.4 116.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

9.00

25000

20000

15000

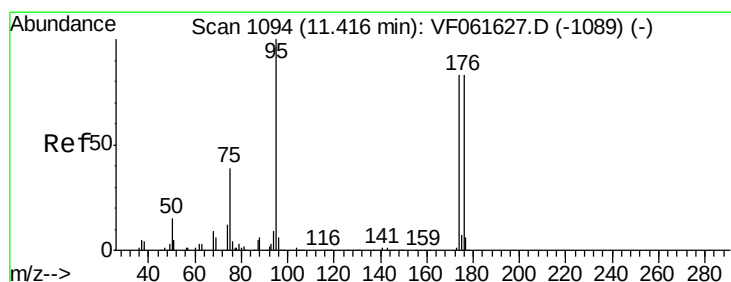
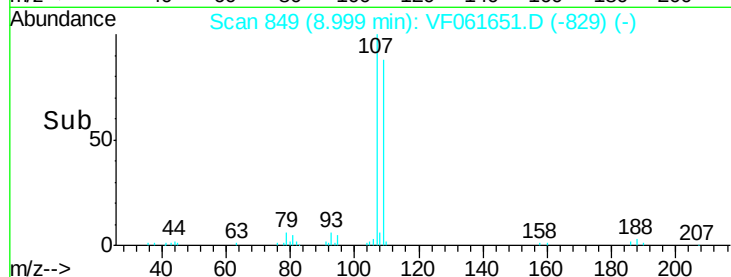
10000

5000

0

8.90 9.00 9.10 9.20

Time-->



#62

4-Bromofluorobenzene

Concen: 50.346 ug/l

RT: 11.42 min Scan# 1095

Delta R.T. 0.01 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

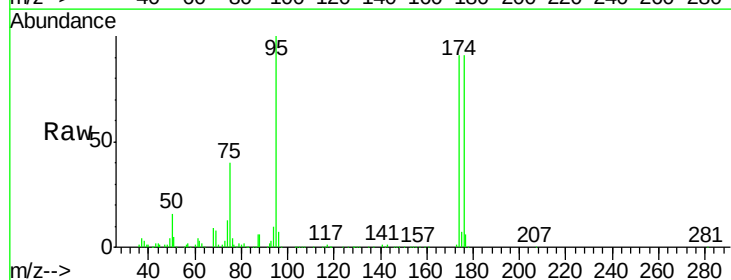
Tgt Ion: 95 Resp: 209333

Ion Ratio Lower Upper

95 100

174 91.5 0.0 165.8

176 90.9 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

11.42

150000

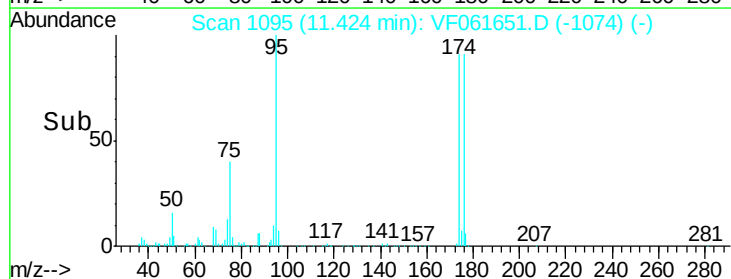
100000

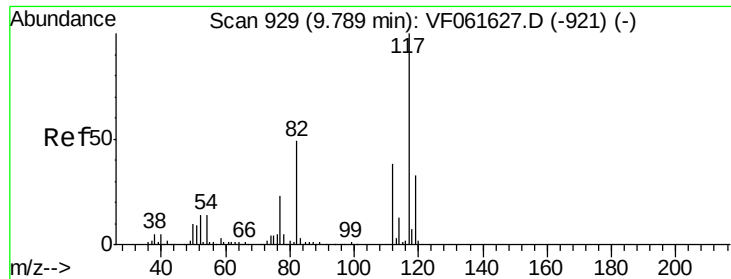
50000

0

11.30 11.40 11.50 11.60

Time-->

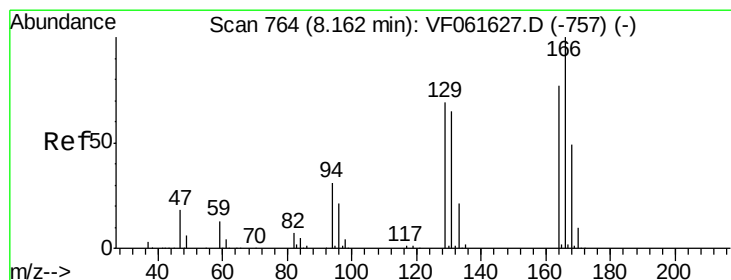
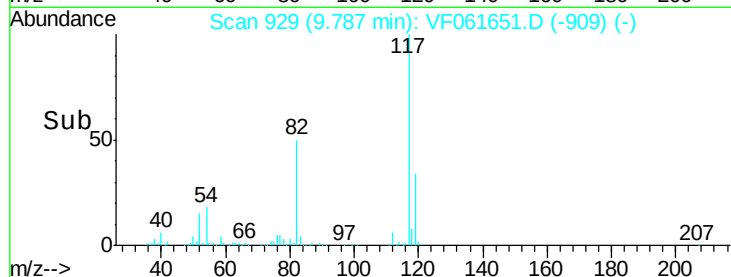
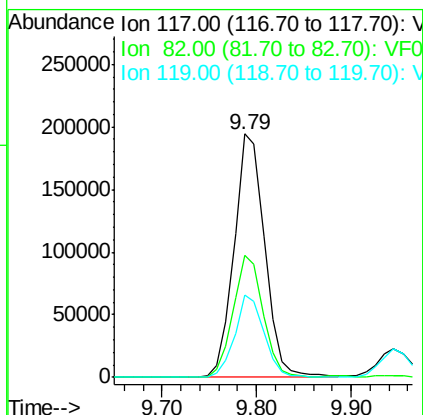
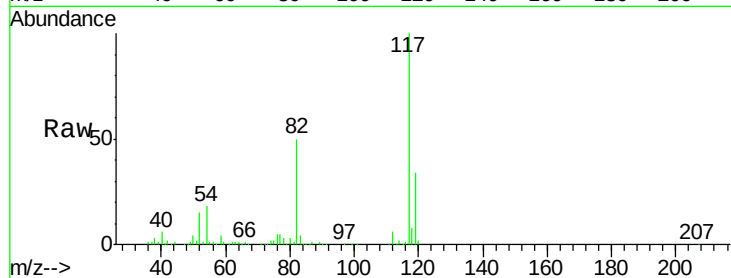




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 929
Delta R.T. -0.00 min
Lab File: VF061651.D
Acq: 15 Feb 2019 12:50

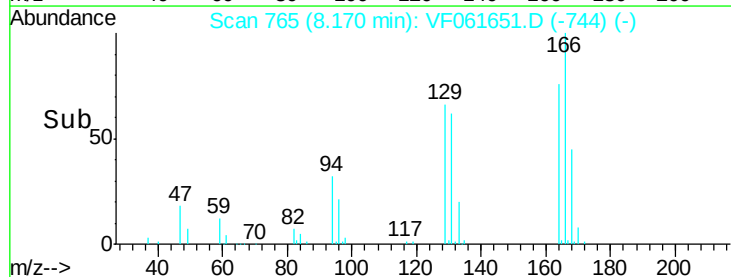
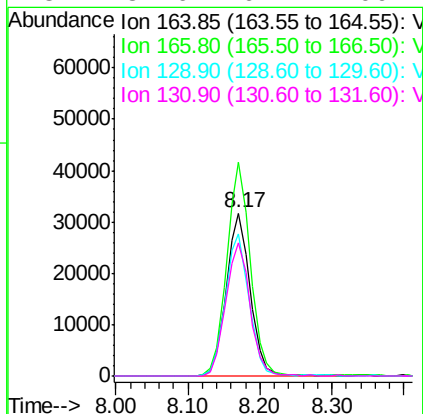
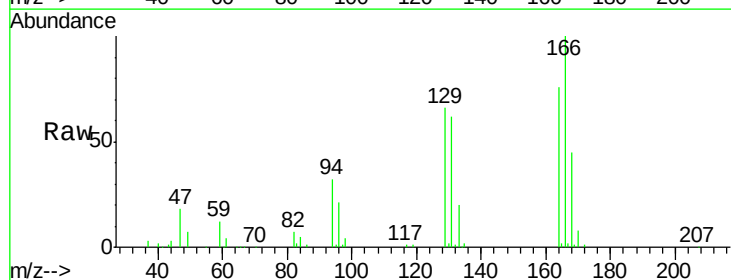
Instrument :
MSVOA_F
ClientSampleId :
VF0215SBS01

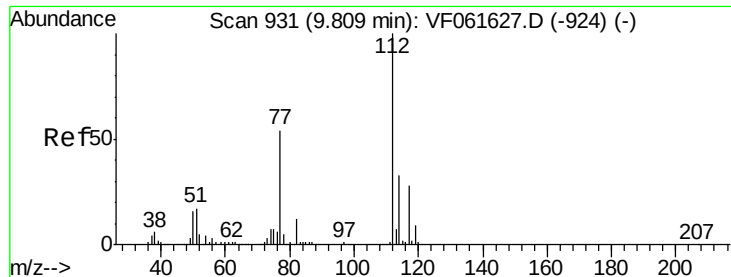
Tot Ion:117 Resp: 436499
Ion Ratio Lower Upper
117 100
82 50.2 39.3 58.9
119 33.8 26.6 40.0



#64
Tetrachloroethene
Concen: 20.532 ug/l
RT: 8.17 min Scan# 765
Delta R.T. 0.01 min
Lab File: VF061651.D
Acq: 15 Feb 2019 12:50

Tgt Ion:164 Resp: 73256
Ion Ratio Lower Upper
164 100
166 131.3 103.9 155.9
129 87.2 71.3 106.9
131 81.6 67.1 100.7

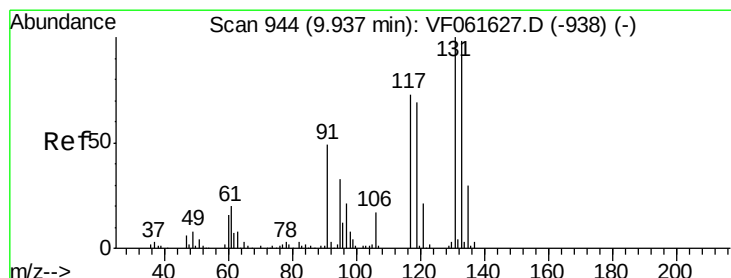
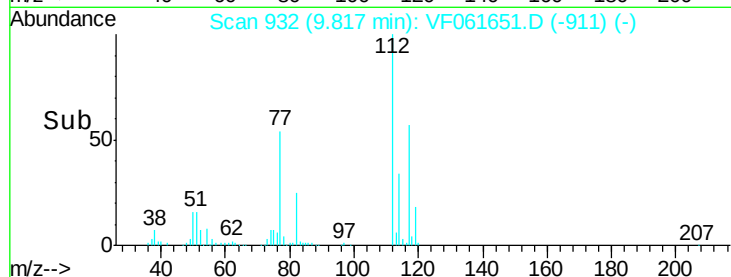
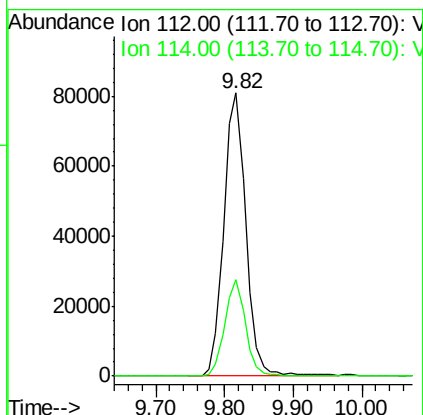
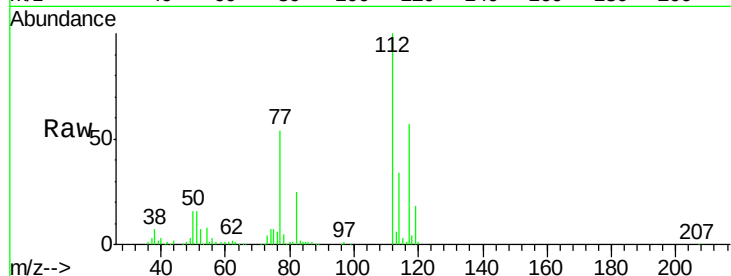




#65
Chlorobenzene
Concen: 20.371 ug/l
RT: 9.82 min Scan# 932
Delta R.T. 0.01 min
Lab File: VF061651.D
Acq: 15 Feb 2019 12:50

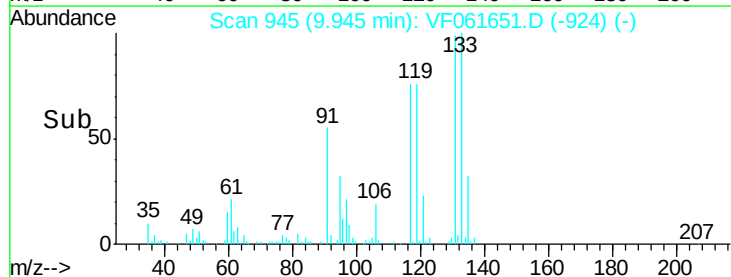
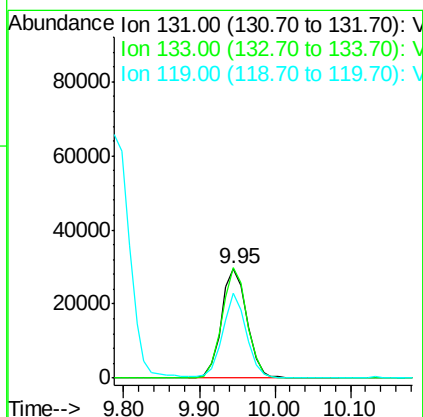
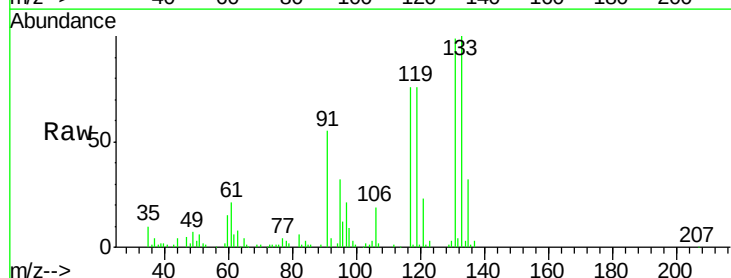
Instrument :
MSVOA_F
ClientSampleId :
VF0215SBS01

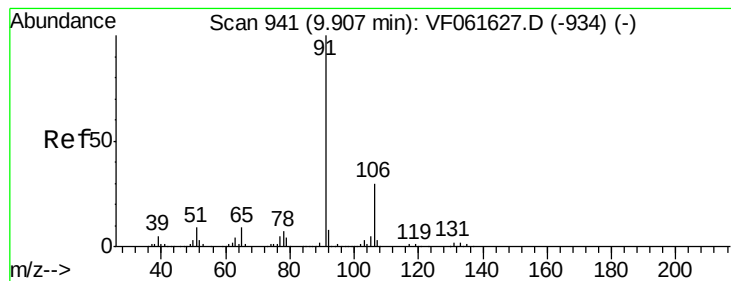
Tot Ion:112 Resp: 180435
Ion Ratio Lower Upper
112 100
114 34.1 26.2 39.2



#66
1,1,1,2-Tetrachloroethane
Concen: 19.987 ug/l
RT: 9.95 min Scan# 945
Delta R.T. 0.01 min
Lab File: VF061651.D
Acq: 15 Feb 2019 12:50

Tgt Ion:131 Resp: 69373
Ion Ratio Lower Upper
131 100
133 101.3 48.9 146.6
119 77.0 34.8 104.3





#67

Ethyl Benzene

Concen: 20.178 ug/l

RT: 9.92 min Scan# 942

Delta R.T. 0.01 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

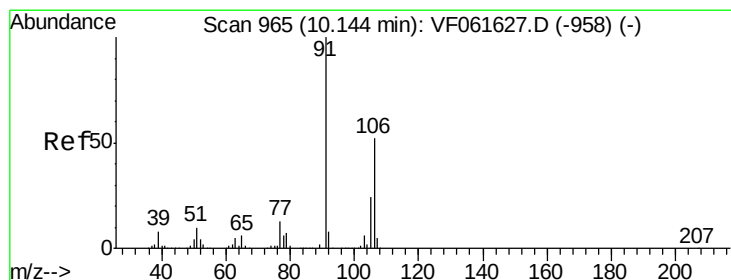
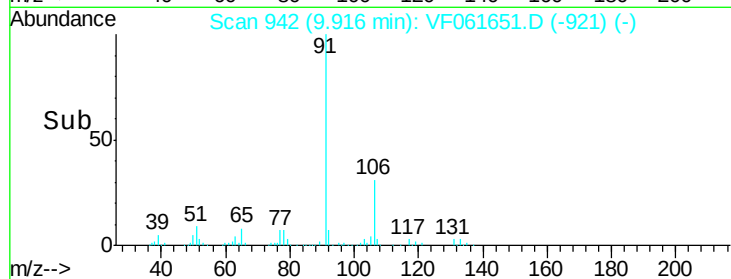
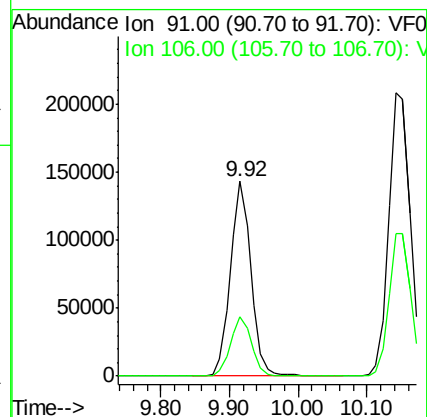
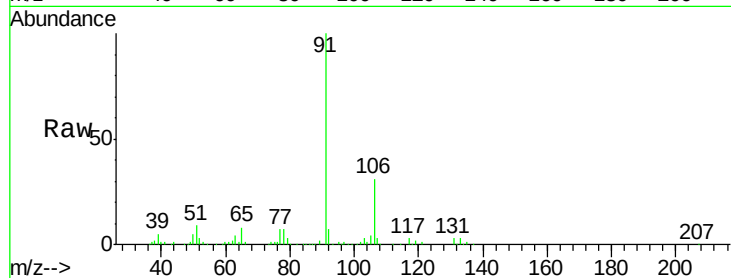
VF0215SBS01

Tot Ion: 91 Resp: 297225

Ion Ratio Lower Upper

91 100

106 30.6 24.1 36.1



#68

m/p-Xylenes

Concen: 41.907 ug/l

RT: 10.14 min Scan# 965

Delta R.T. -0.00 min

Lab File: VF061651.D

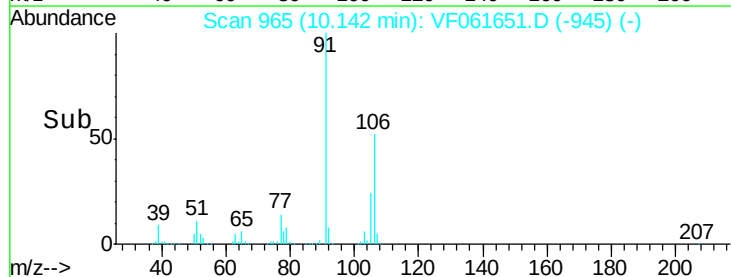
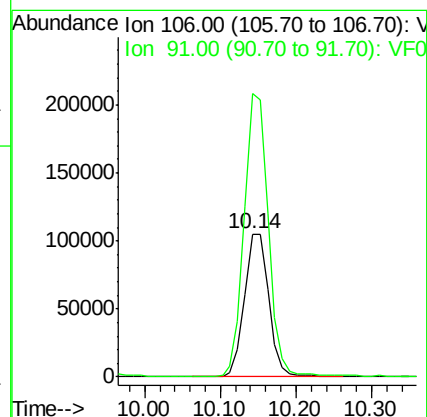
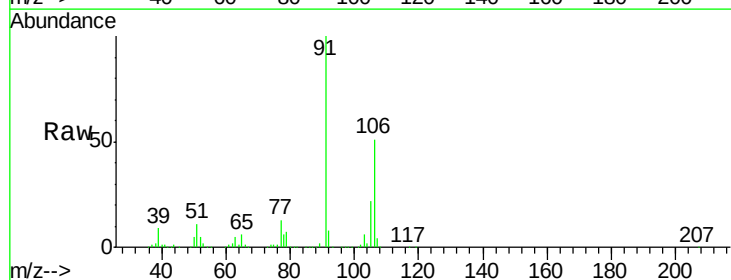
Acq: 15 Feb 2019 12:50

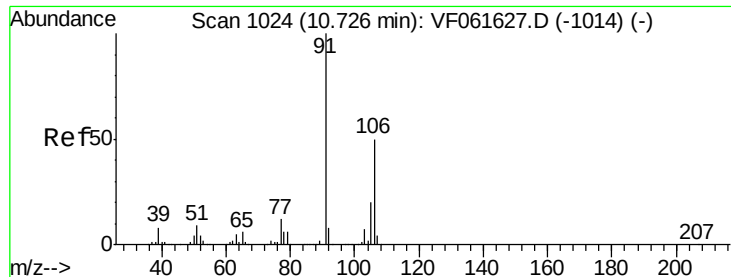
Tgt Ion: 106 Resp: 236246

Ion Ratio Lower Upper

106 100

91 198.0 153.0 229.6

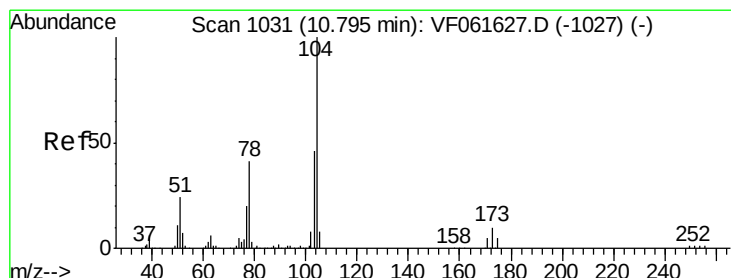
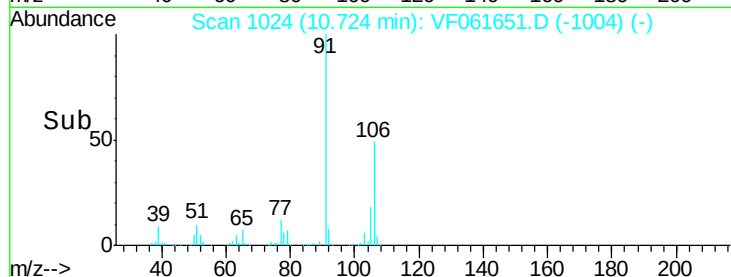
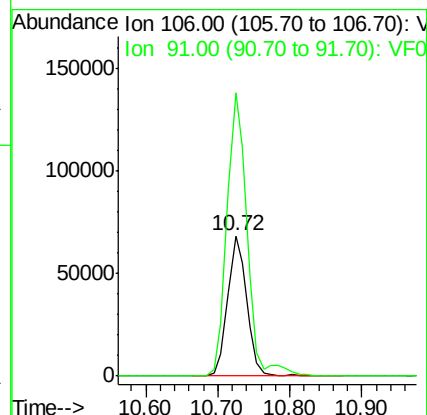
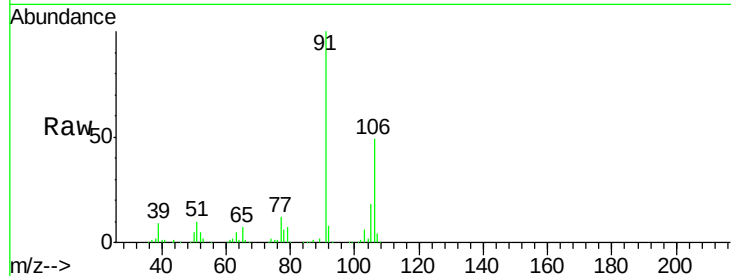




#69
o-Xylene
Concen: 21.044 ug/l
RT: 10.72 min Scan# 1024
Delta R.T. -0.00 min
Lab File: VF061651.D
Acq: 15 Feb 2019 12:50

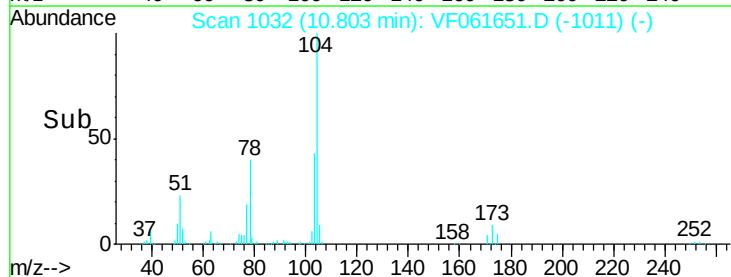
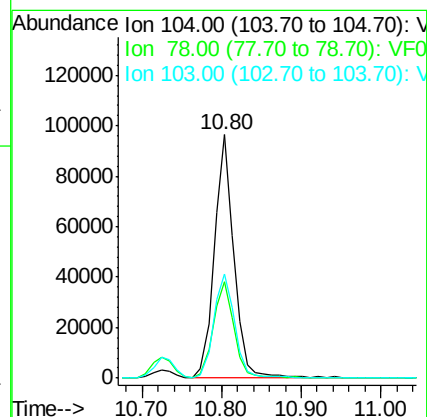
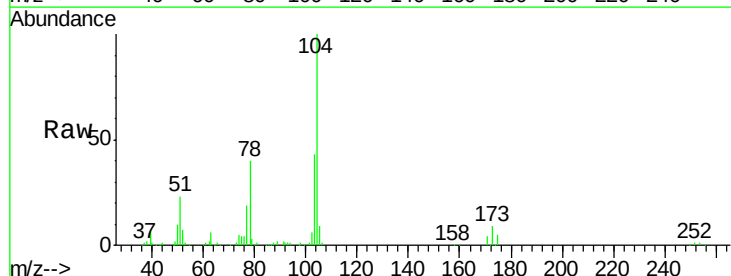
Instrument :
MSVOA_F
ClientSampleId :
VF0215SBS01

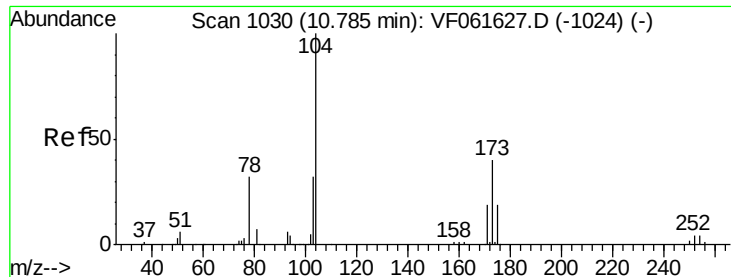
Tot Ion:106 Resp: 126588
Ion Ratio Lower Upper
106 100
91 202.1 100.1 300.1



#70
Styrene
Concen: 19.434 ug/l
RT: 10.80 min Scan# 1032
Delta R.T. 0.01 min
Lab File: VF061651.D
Acq: 15 Feb 2019 12:50

Tgt Ion:104 Resp: 165383
Ion Ratio Lower Upper
104 100
78 39.9 33.2 49.8
103 43.0 37.2 55.8





#71

Bromoform

Concen: 19.368 ug/l

RT: 10.78 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0215SBS01

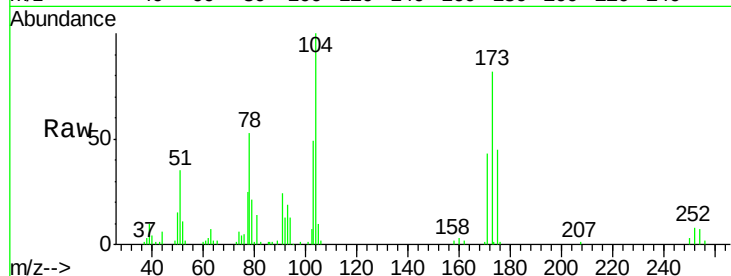
Tot Ion:173 Resp: 36504

Ion Ratio Lower Upper

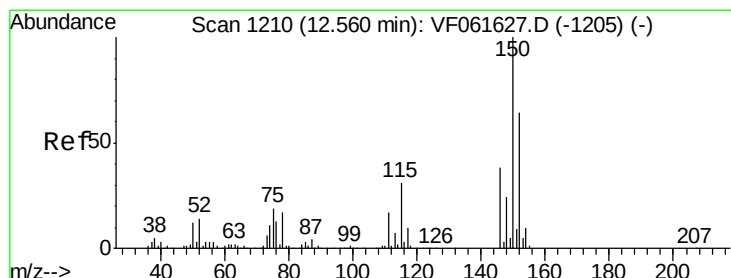
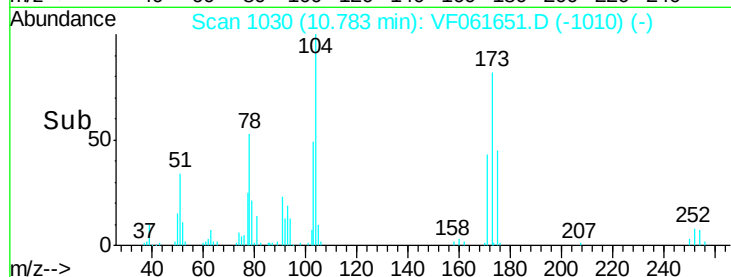
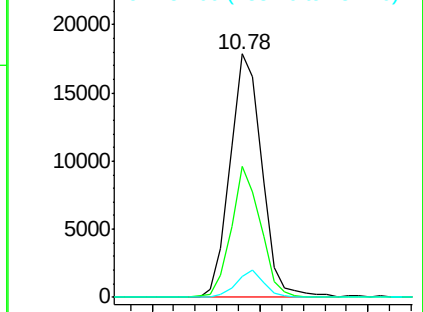
173 100

175 53.9 24.0 72.0

254 8.4 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: 12.56 min Scan# 1210

Delta R.T. -0.00 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

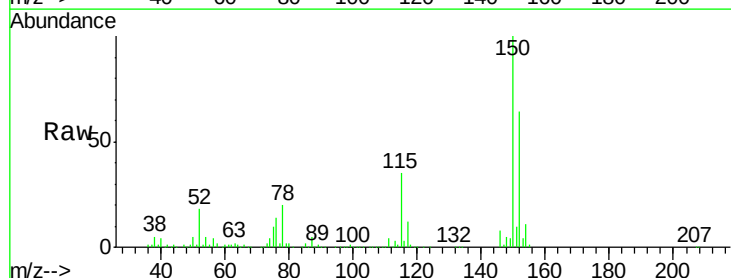
Tgt Ion:152 Resp: 241979

Ion Ratio Lower Upper

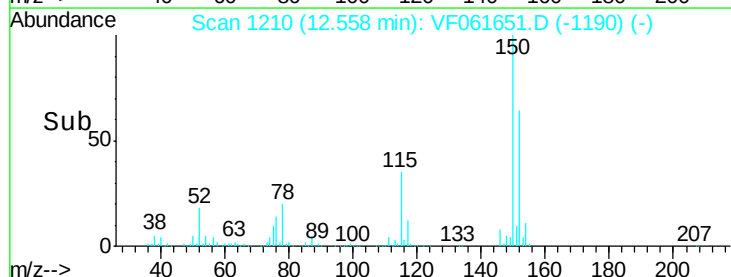
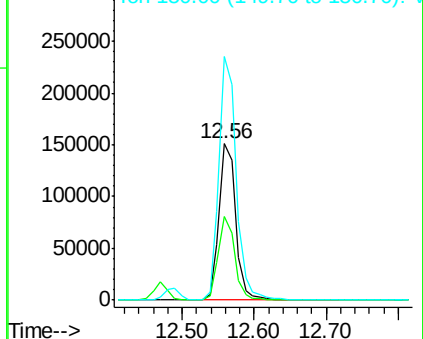
152 100

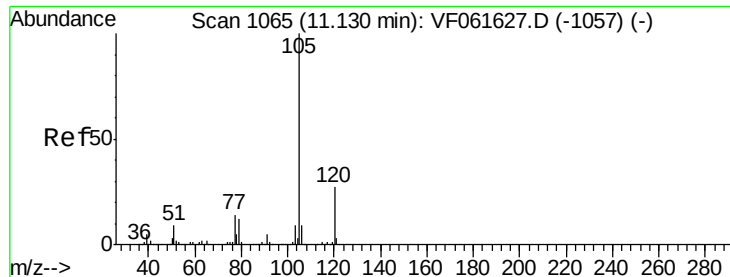
115 53.7 24.3 72.8

150 155.7 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: 21.089 ug/l

RT: 11.14 min Scan# 1066

Delta R.T. 0.01 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

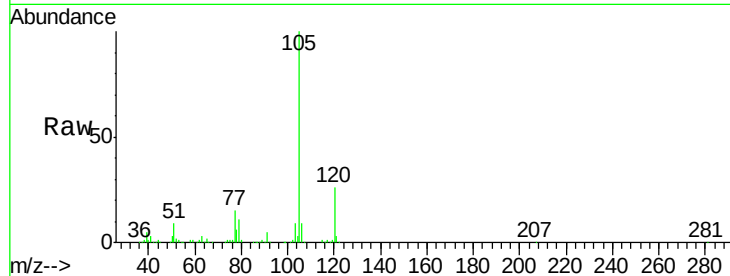
VF0215SBS01

Tot Ion:105 Resp: 363333

Ion Ratio Lower Upper

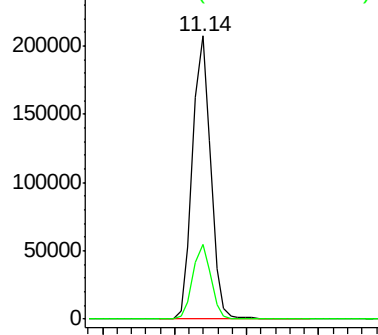
105 100

120 26.3 13.4 40.1

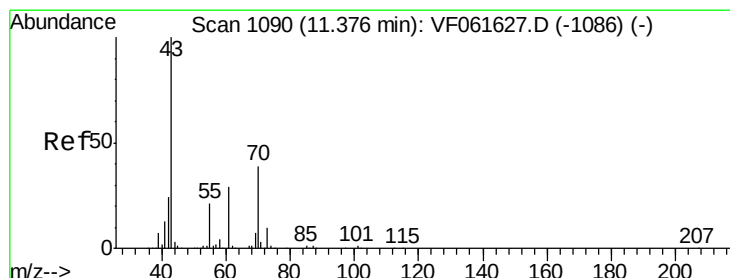
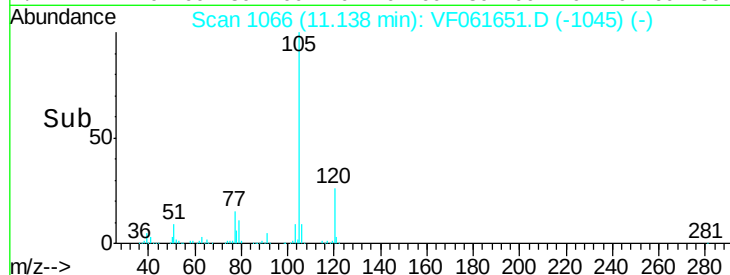


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



Time--> 11.00 11.10 11.20 11.30



#74

N-ethyl acetate

Concen: 19.841 ug/l

RT: 11.38 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

Tgt Ion: 43 Resp: 82048

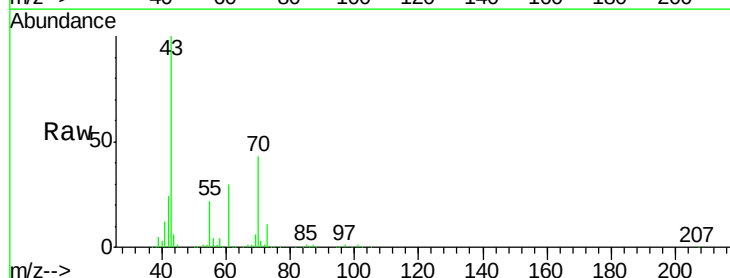
Ion Ratio Lower Upper

43 100

70 43.3 31.5 47.3

55 21.6 16.7 25.1

61 30.3 23.0 34.6

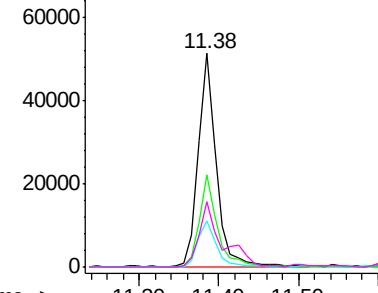


Abundance Ion 43.00 (42.70 to 43.70): VF0

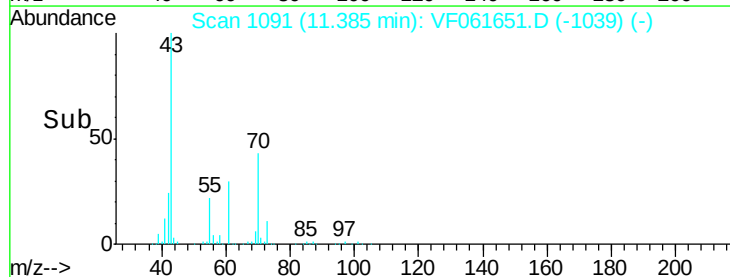
Ion 70.00 (69.70 to 70.70): VF0

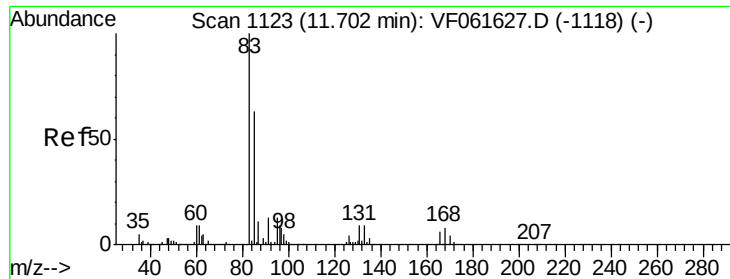
Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



Time--> 11.30 11.40 11.50





#75

1,1,2,2-Tetrachloroethane

Concen: 19.614 ug/l

RT: 11.71 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0215SBS01

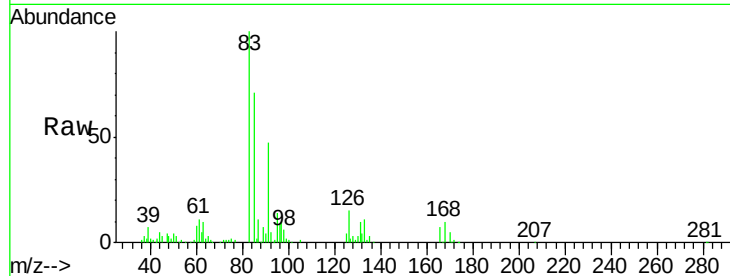
Tot Ion: 83 Resp: 60540

Ion Ratio Lower Upper

83 100

131 9.5 4.4 13.2

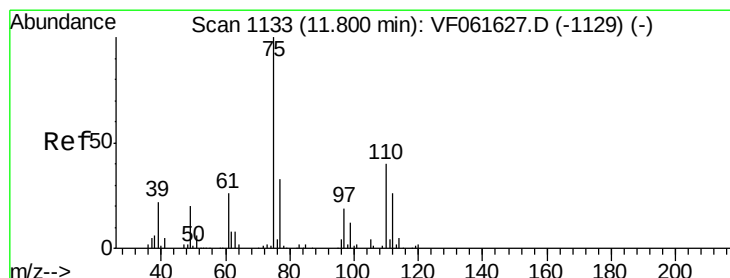
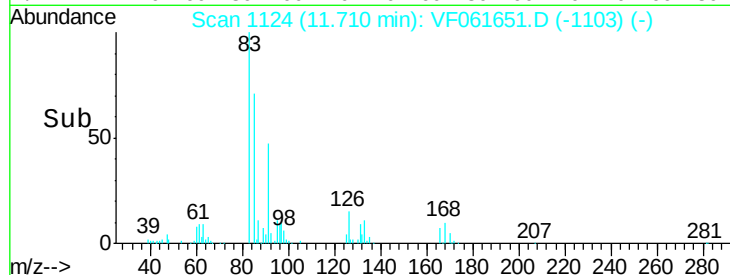
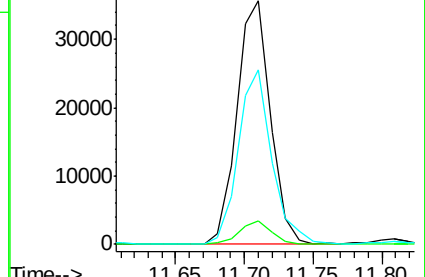
85 71.4 31.5 94.5



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 18.432 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. 0.01 min

Lab File: VF061651.D

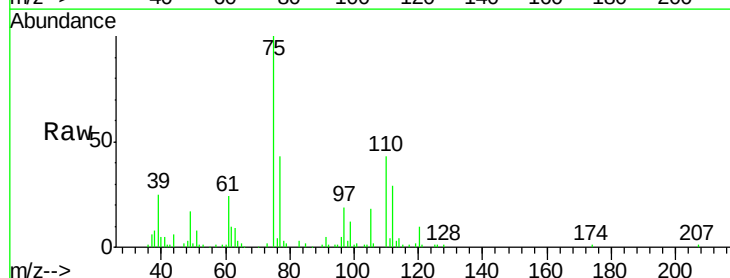
Acq: 15 Feb 2019 12:50

Tgt Ion: 75 Resp: 38679

Ion Ratio Lower Upper

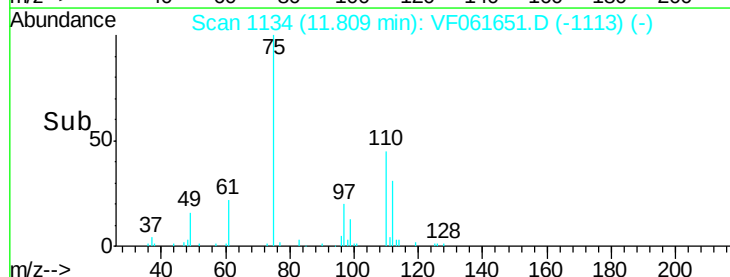
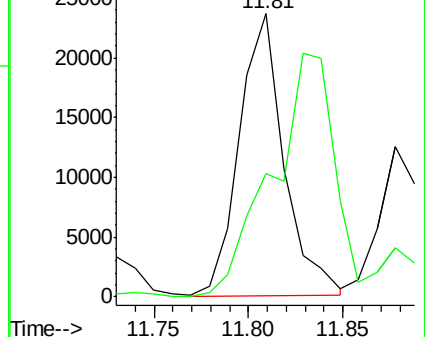
75 100

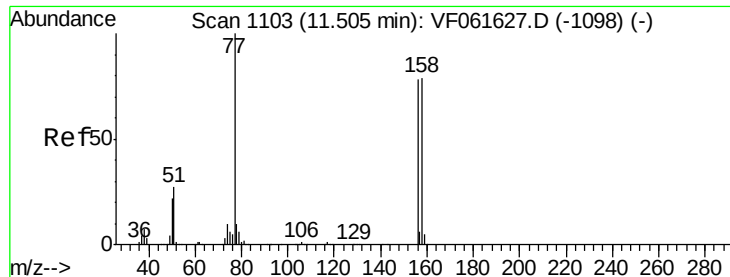
77 43.5 16.6 49.7



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 20.098 ug/l

RT: 11.51 min Scan# 1104

Delta R.T. 0.01 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0215SBS01

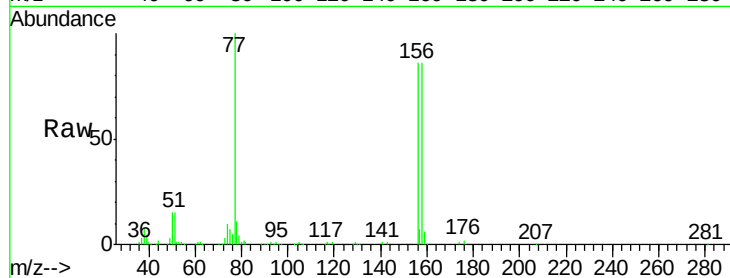
Tot Ion:156 Resp: 85542

Ion Ratio Lower Upper

156 100

77 116.3 64.3 192.7

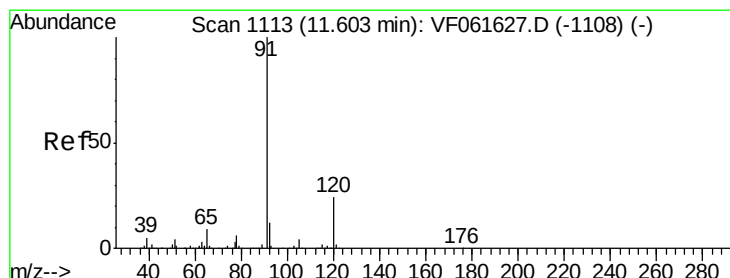
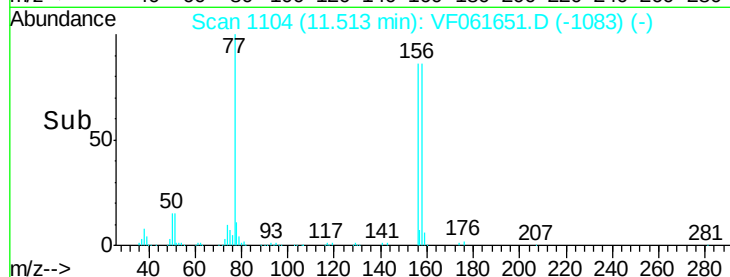
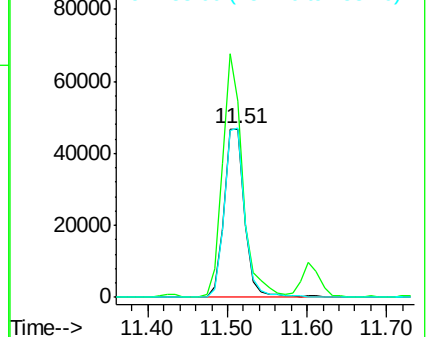
158 100.6 50.9 152.7



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: 16.235 ug/l

RT: 11.61 min Scan# 1114

Delta R.T. 0.01 min

Lab File: VF061651.D

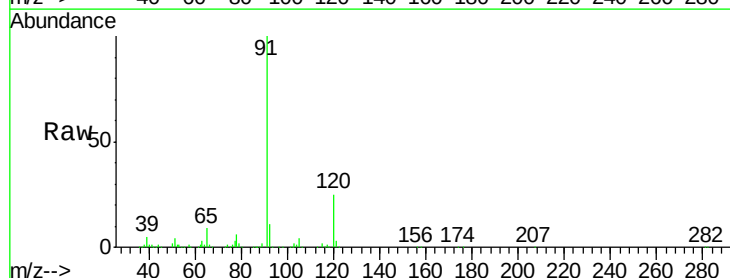
Acq: 15 Feb 2019 12:50

Tgt Ion: 91 Resp: 320977

Ion Ratio Lower Upper

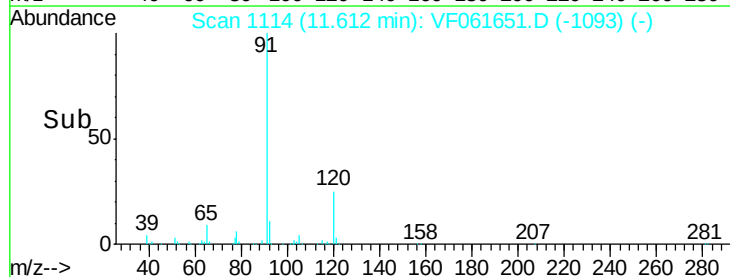
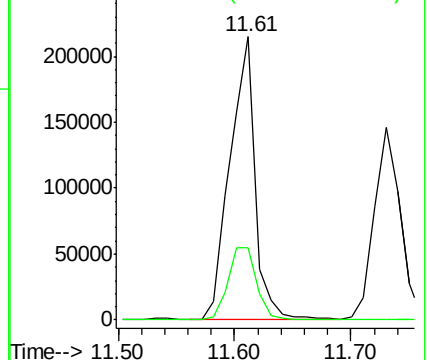
91 100

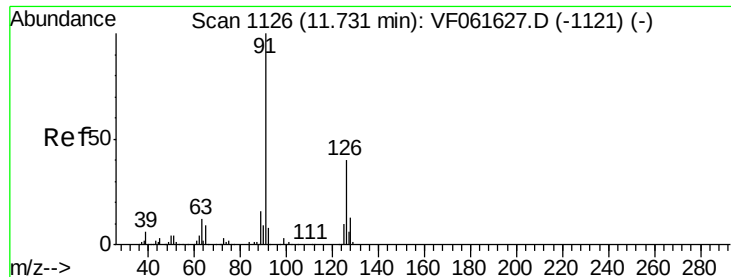
120 25.4 12.1 36.3



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.258 ug/l

RT: 11.73 min Scan# 1126

Delta R.T. -0.00 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

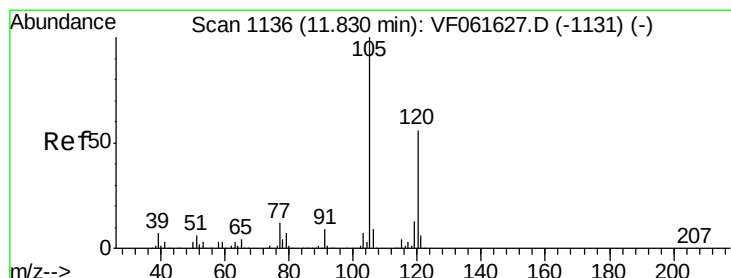
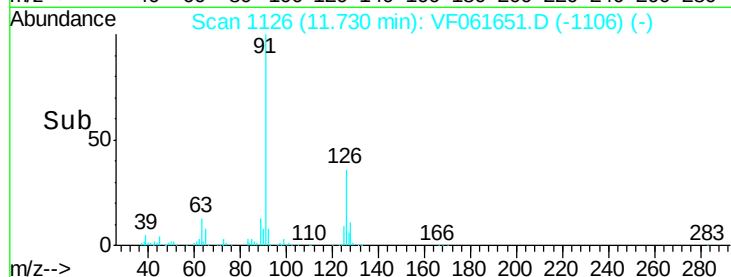
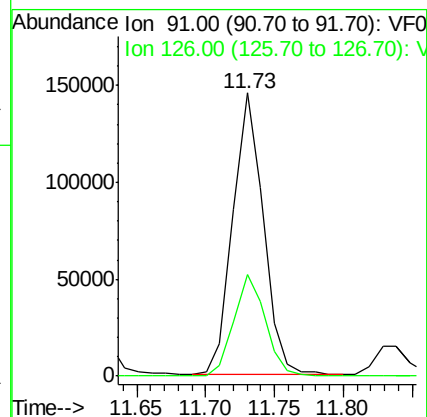
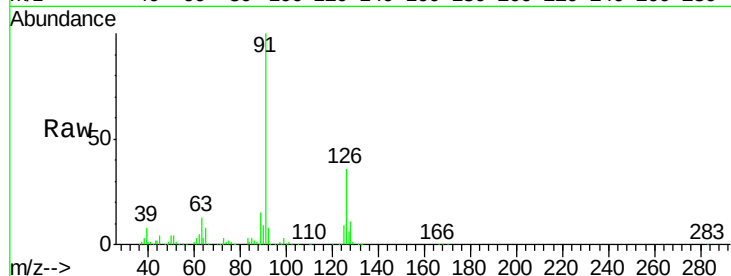
VF0215SBS01

Tot Ion: 91 Resp: 224302

Ion Ratio Lower Upper

91 100

126 36.0 19.8 59.4



#80

1,3,5-Trimethylbenzene

Concen: 19.978 ug/l

RT: 11.84 min Scan# 1137

Delta R.T. 0.01 min

Lab File: VF061651.D

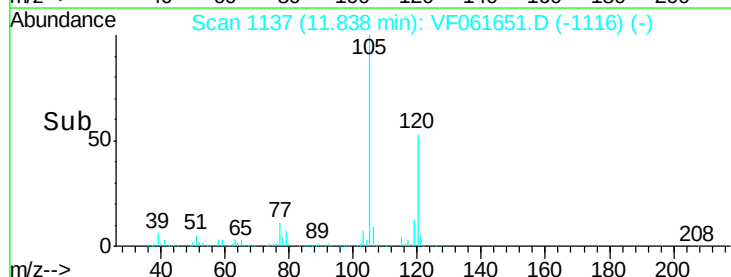
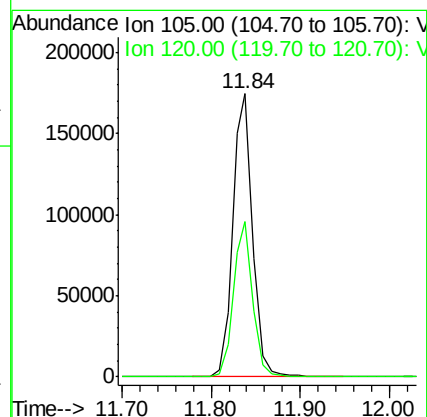
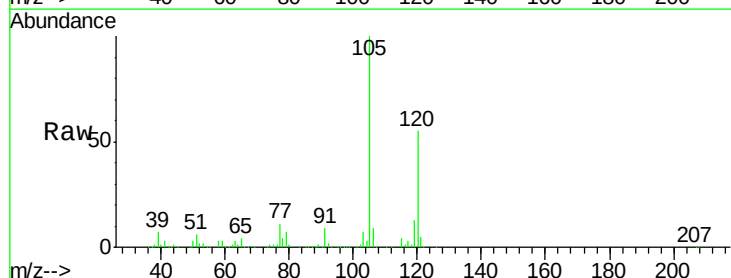
Acq: 15 Feb 2019 12:50

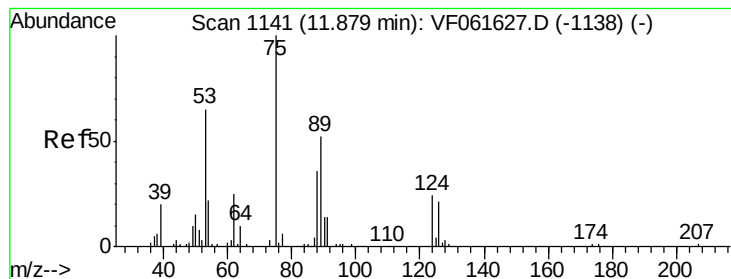
Tgt Ion:105 Resp: 275086

Ion Ratio Lower Upper

105 100

120 55.1 27.9 83.6





#81

trans-1,4-Dichloro-2-butene

Concen: 19.852 ug/l m

RT: 11.88 min Scan# 1141

Delta R.T. -0.00 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0215SBS01

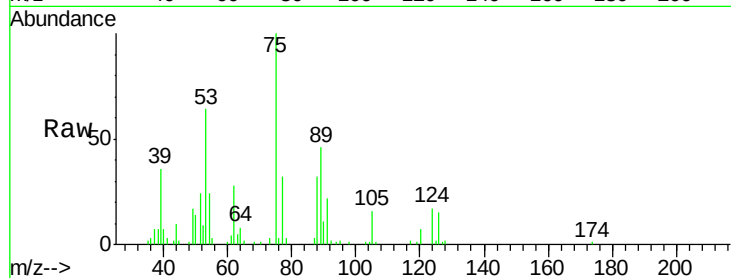
Tot Ion: 75 Resp: 19972

Ion Ratio Lower Upper

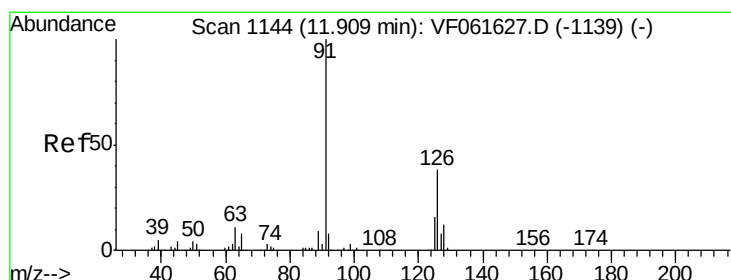
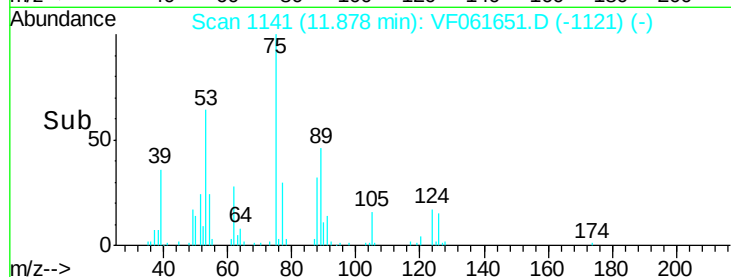
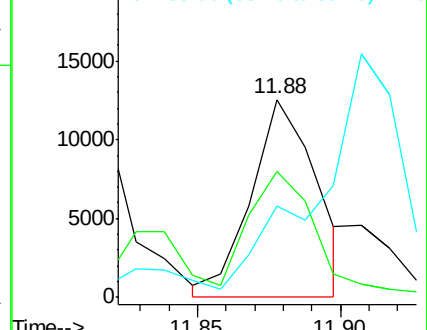
75 100

53 63.8 53.7 80.5

89 46.3 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: 20.214 ug/l

RT: 11.91 min Scan# 1144

Delta R.T. -0.00 min

Lab File: VF061651.D

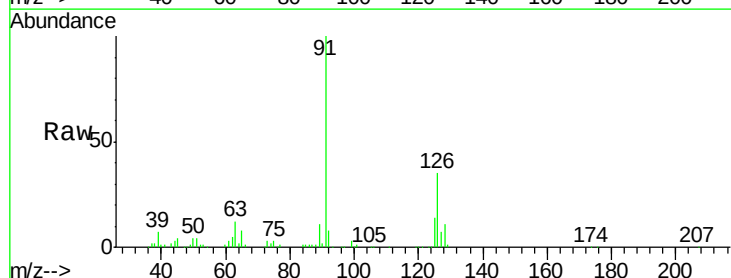
Acq: 15 Feb 2019 12:50

Tgt Ion: 91 Resp: 232305

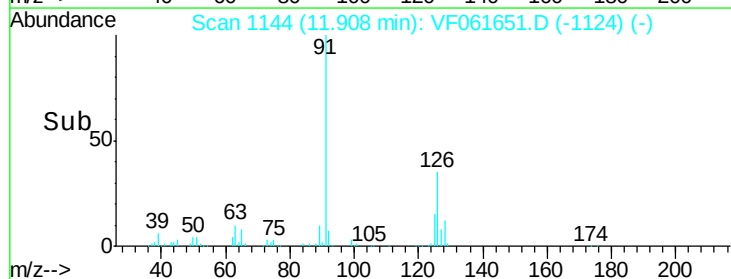
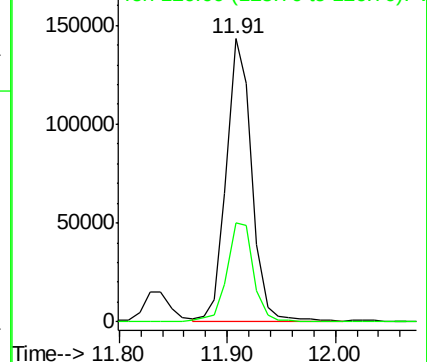
Ion Ratio Lower Upper

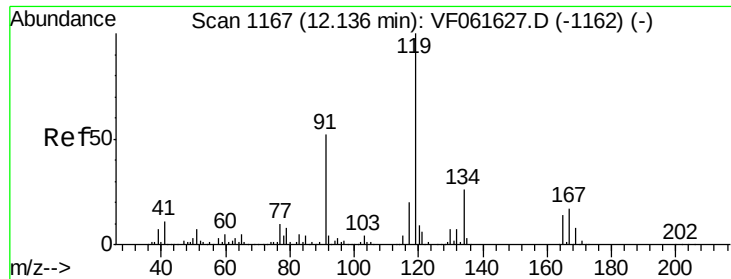
91 100

126 34.9 19.1 57.1



Abundance Ion 91.00 (90.70 to 91.70): VF0
Ion 126.00 (125.70 to 126.70): V

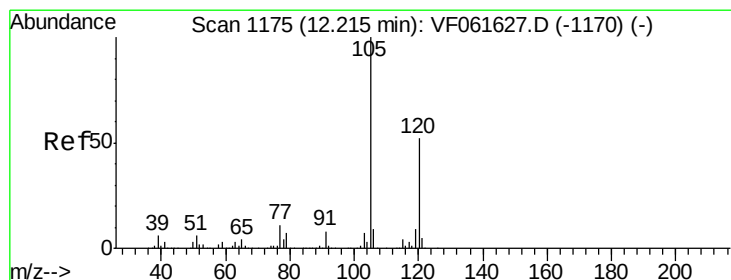
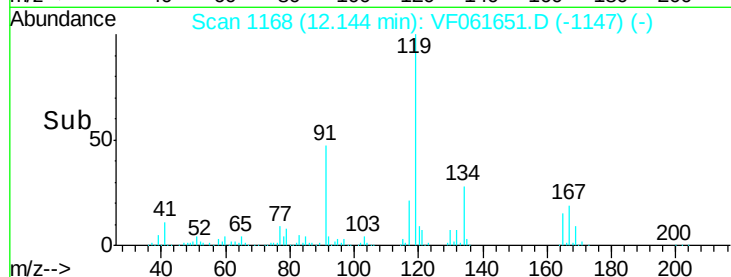
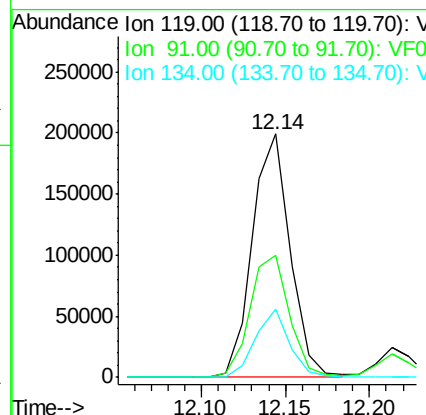
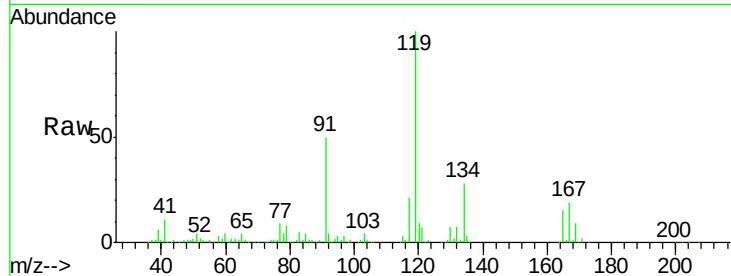




#83
tert-Butylbenzene
Concen: 20.394 ug/l
RT: 12.14 min Scan# 1168
Delta R.T. 0.01 min
Lab File: VF061651.D
Acq: 15 Feb 2019 12:50

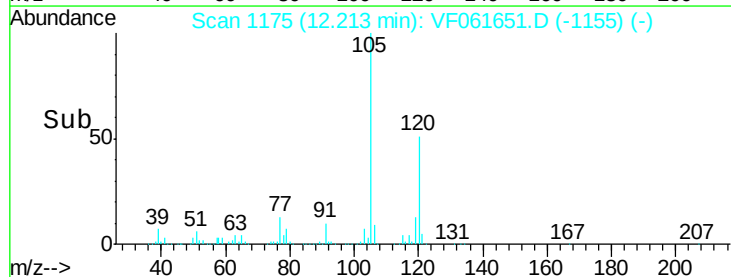
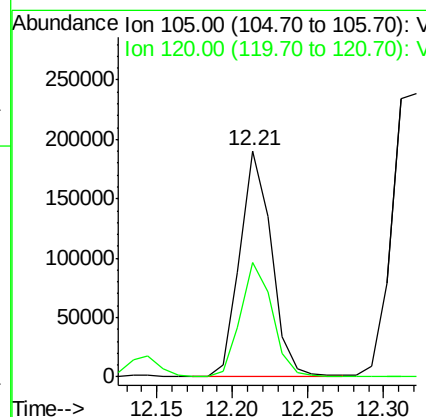
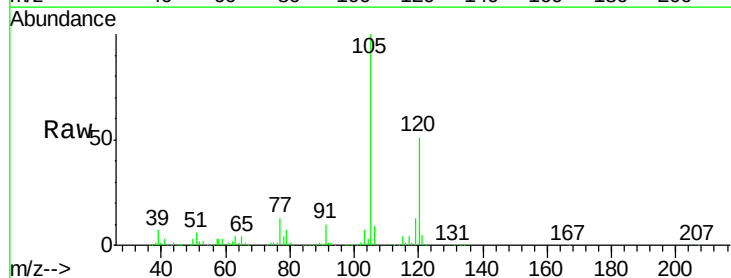
Instrument :
MSVOA_F
ClientSampleId :
VF0215SBS01

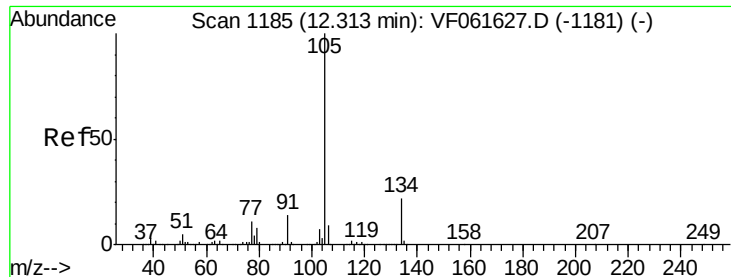
Tot Ion:119 Resp: 311039
Ion Ratio Lower Upper
119 100
91 50.3 26.3 78.8
134 27.8 12.9 38.7



#84
1,2,4-Trimethylbenzene
Concen: 20.390 ug/l
RT: 12.21 min Scan# 1175
Delta R.T. -0.00 min
Lab File: VF061651.D
Acq: 15 Feb 2019 12:50

Tgt Ion:105 Resp: 278939
Ion Ratio Lower Upper
105 100
120 50.8 26.1 78.3





#85

sec-Butylbenzene

Concen: 19.884 ug/l

RT: 12.32 min Scan# 1186

Delta R.T. 0.01 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

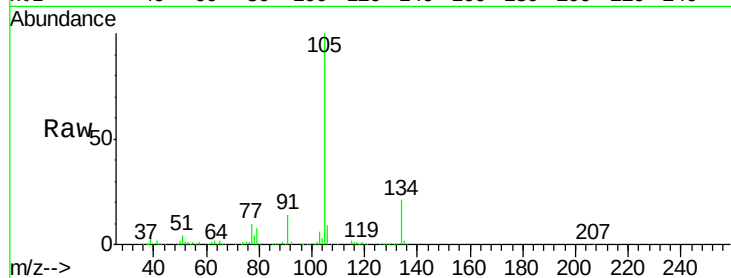
VF0215SBS01

Tot Ion:105 Resp: 392156

Ion Ratio Lower Upper

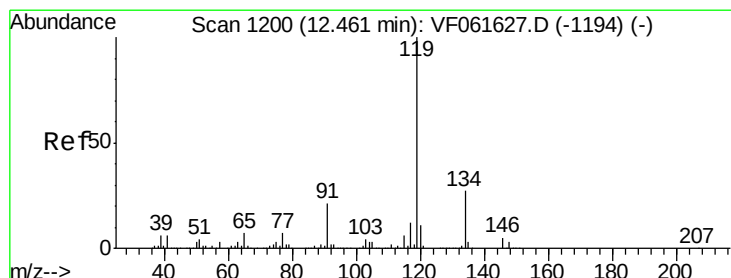
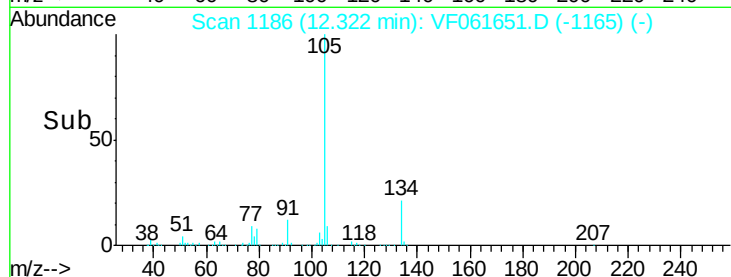
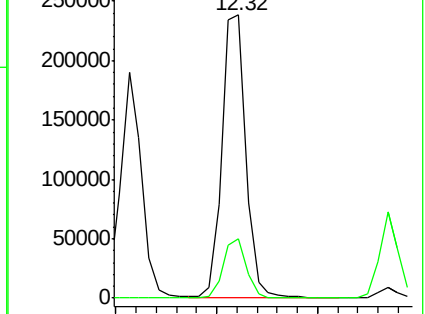
105 100

134 21.2 10.8 32.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 21.524 ug/l

RT: 12.47 min Scan# 1201

Delta R.T. 0.01 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

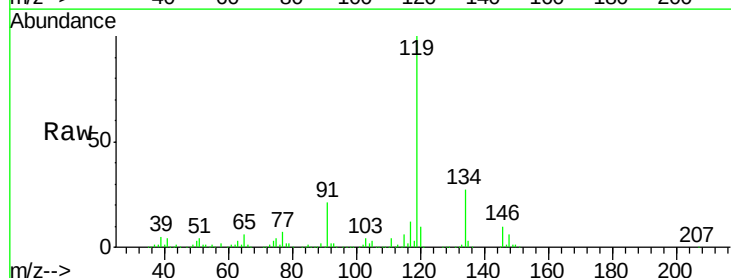
Tgt Ion:119 Resp: 356267

Ion Ratio Lower Upper

119 100

134 27.0 13.7 41.1

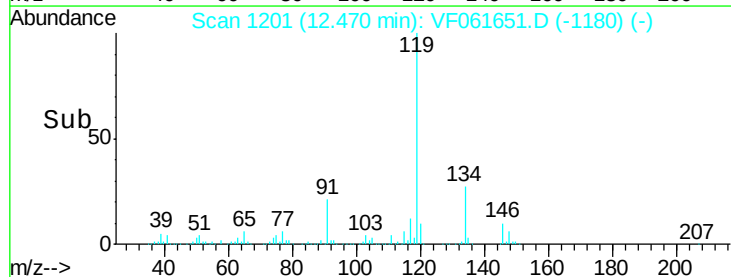
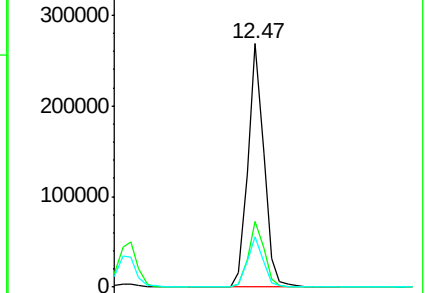
91 20.9 10.8 32.4

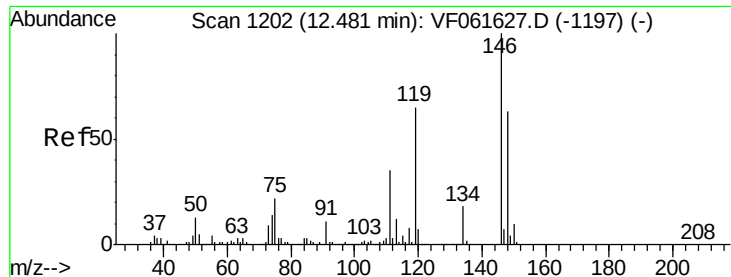


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0

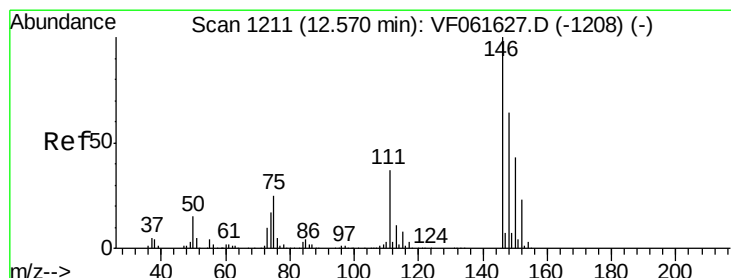
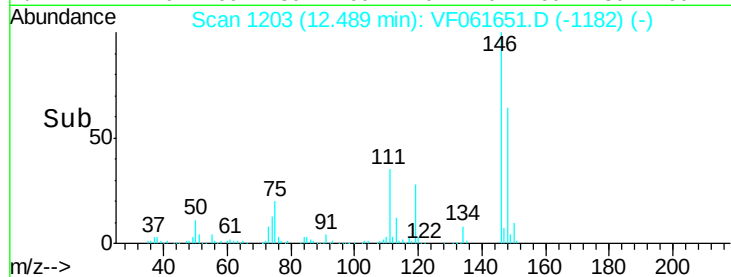
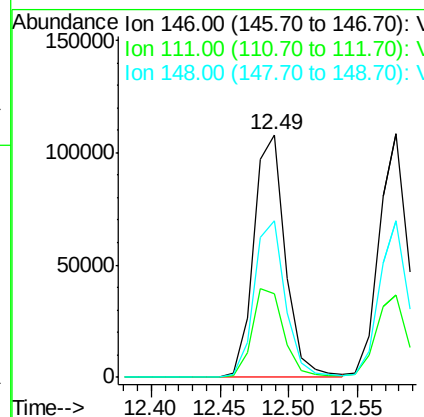
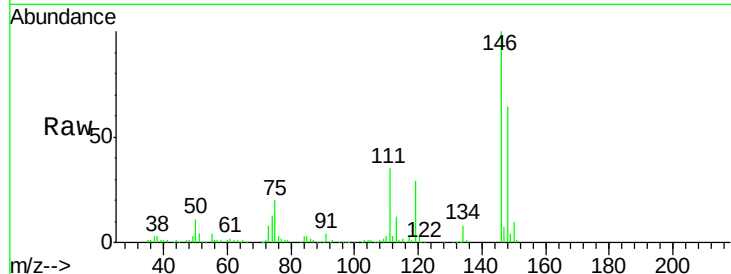




#87
 1,3-Dichlorobenzene
 Concen: 20.890 ug/l
 RT: 12.49 min Scan# 1203
 Delta R.T. 0.01 min
 Lab File: VF061651.D
 Acq: 15 Feb 2019 12:50

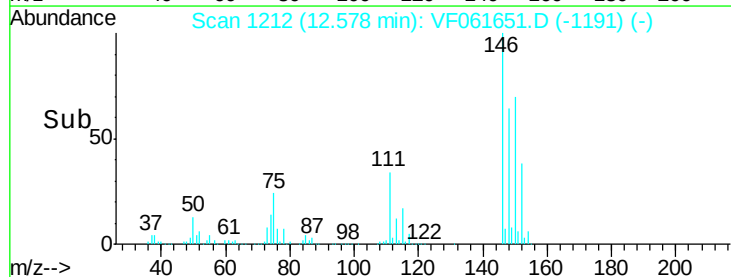
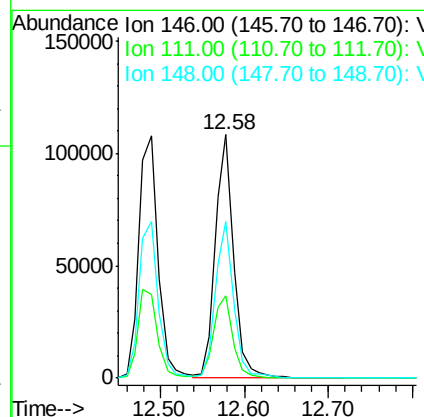
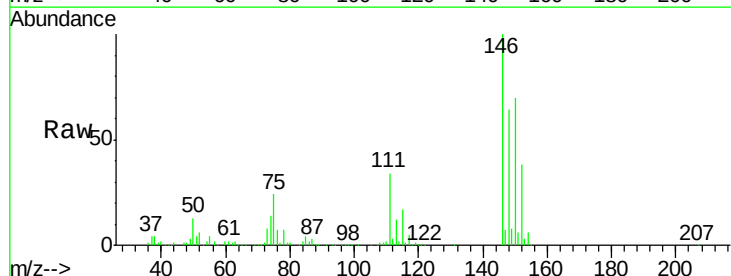
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0215SBS01

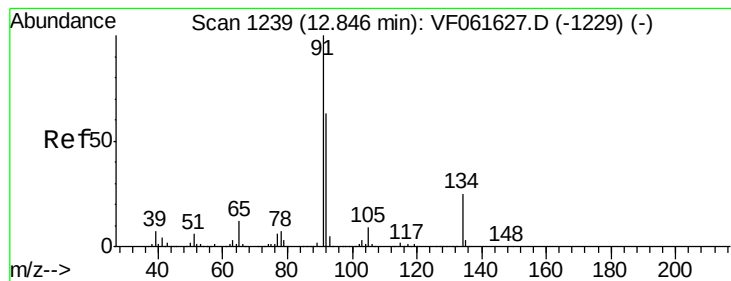
Tot Ion	Ratio	Lower	Upper
146	100		
111	34.7	17.5	52.6
148	64.4	31.4	94.3



#88
 1,4-Dichlorobenzene
 Concen: 20.559 ug/l
 RT: 12.58 min Scan# 1212
 Delta R.T. 0.01 min
 Lab File: VF061651.D
 Acq: 15 Feb 2019 12:50

Tgt Ion	Ratio	Lower	Upper
146	100		
111	33.7	18.4	55.4
148	64.1	32.2	96.6





#89

n-Butylbenzene

Concen: 21.334 ug/l

RT: 12.85 min Scan# 1240

Delta R.T. 0.01 min

Lab File: VF061651.D

Acq: 15 Feb 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0215SBS01

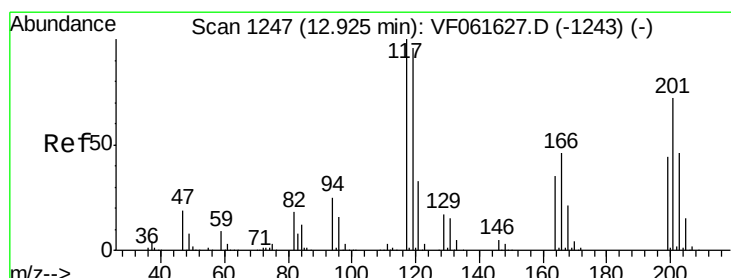
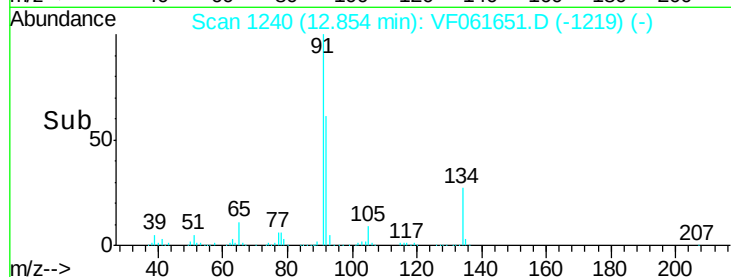
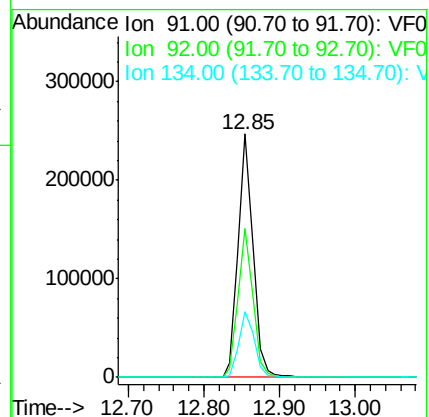
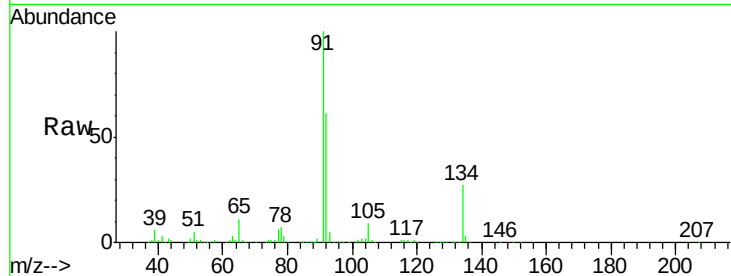
Tot Ion: 91 Resp: 333449

Ion Ratio Lower Upper

91 100

92 61.4 31.4 94.3

134 27.2 12.3 36.9



#90

Hexachloroethane

Concen: 20.396 ug/l

RT: 12.93 min Scan# 1248

Delta R.T. 0.01 min

Lab File: VF061651.D

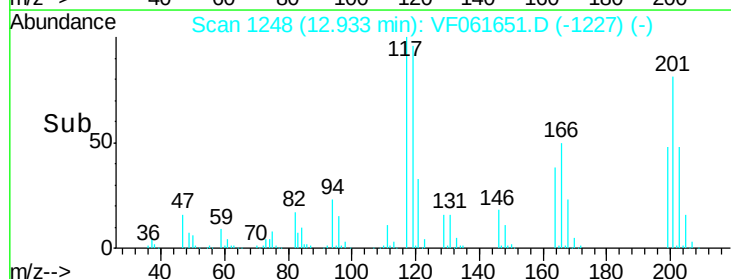
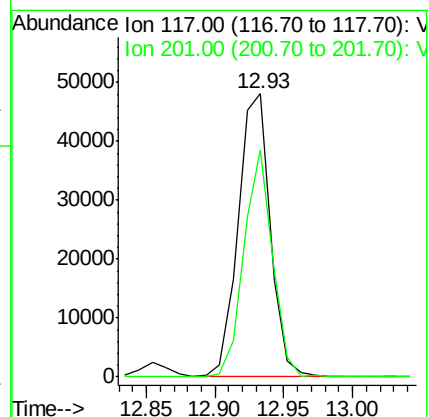
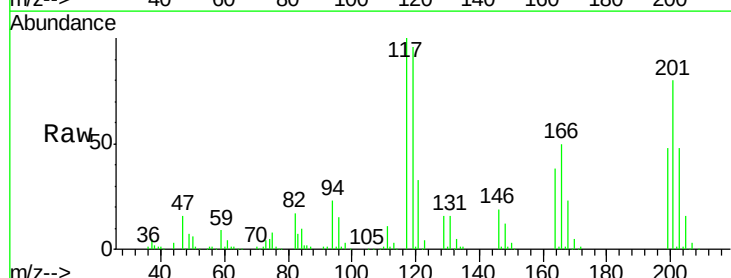
Acq: 15 Feb 2019 12:50

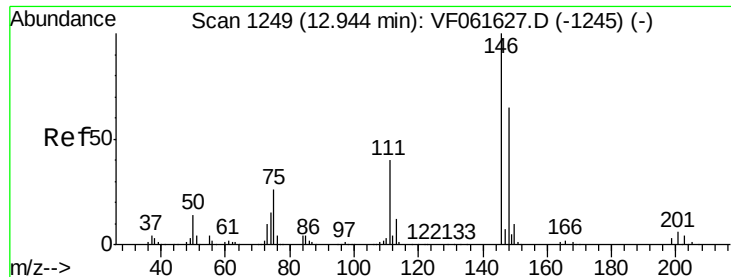
Tgt Ion: 117 Resp: 78516

Ion Ratio Lower Upper

117 100

201 80.3 36.2 108.6

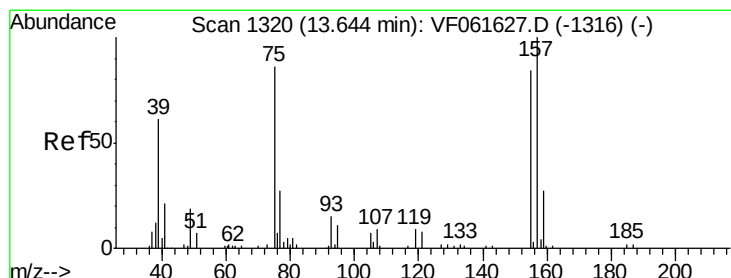
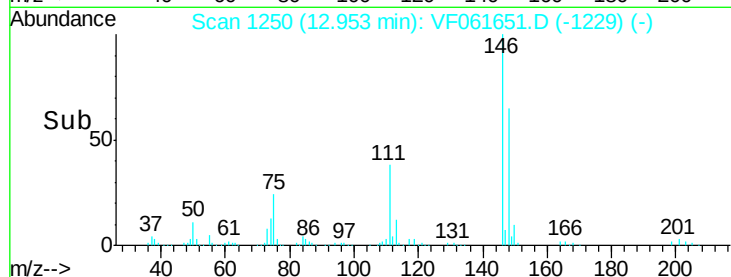
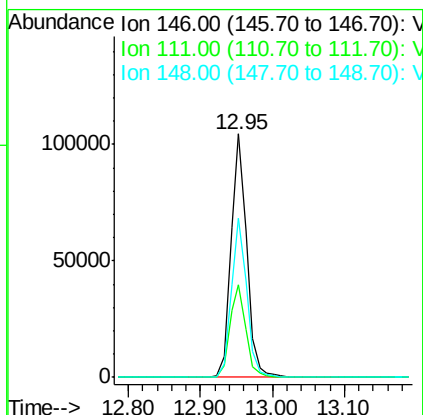
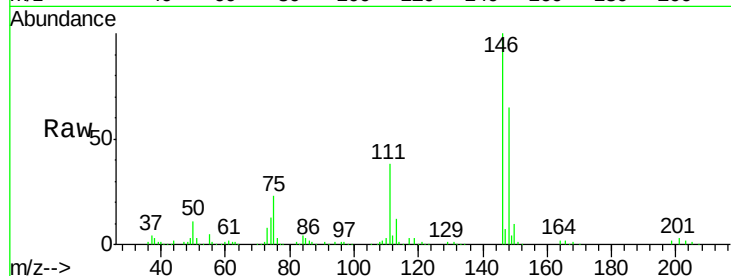




#91
 1,2-Dichlorobenzene
 Concen: 20.172 ug/l
 RT: 12.95 min Scan# 1250
 Delta R.T. 0.01 min
 Lab File: VF061651.D
 Acq: 15 Feb 2019 12:50

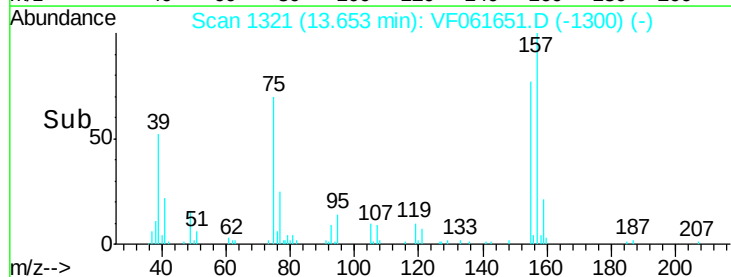
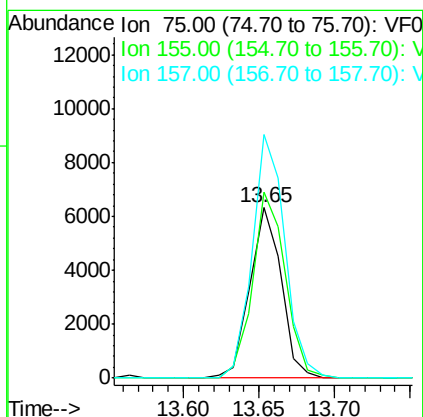
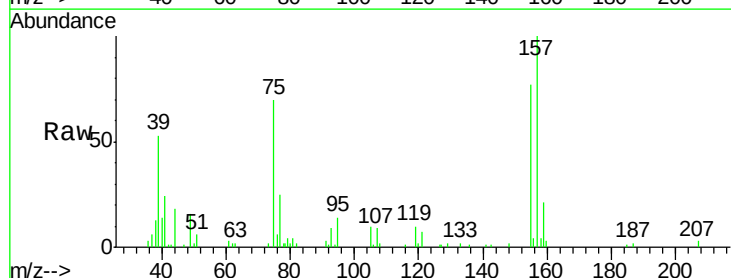
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0215SBS01

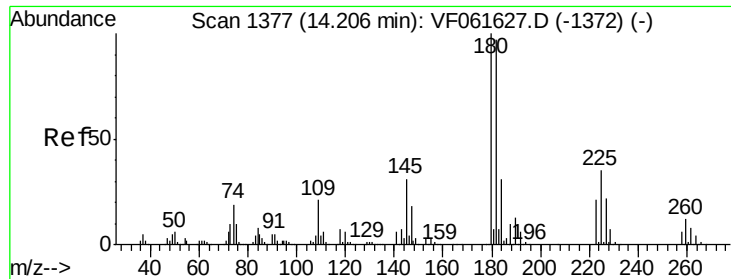
Tot Ion	Ratio	Lower	Upper
146	100		
111	38.0	20.2	60.5
148	65.3	32.3	96.9



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.737 ug/l
 RT: 13.65 min Scan# 1321
 Delta R.T. 0.01 min
 Lab File: VF061651.D
 Acq: 15 Feb 2019 12:50

Tgt Ion	Ratio	Lower	Upper
75	100		
155	109.4	48.9	146.8
157	143.0	58.3	174.8

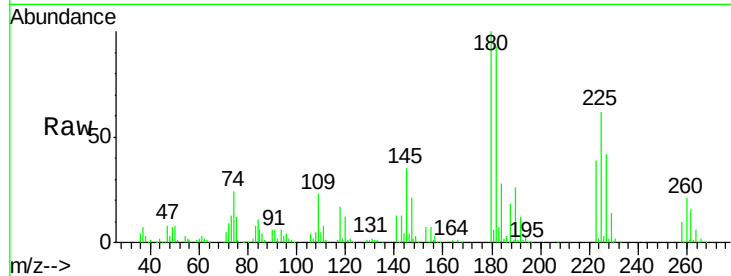




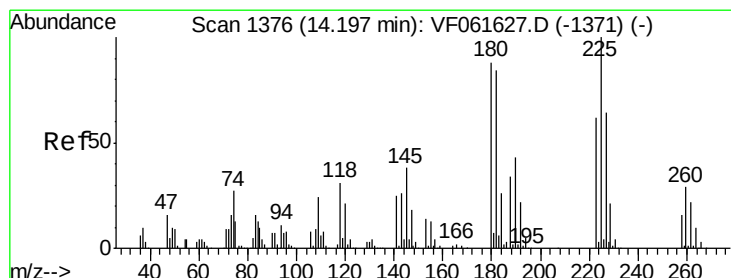
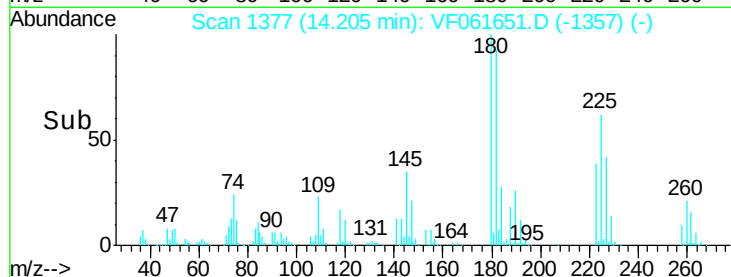
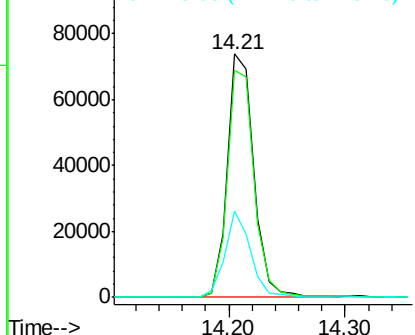
#93
 1,2,4-Trichlorobenzene
 Concen: 20.664 ug/l
 RT: 14.21 min Scan# 1377
 Delta R.T. -0.00 min
 Lab File: VF061651.D
 Acq: 15 Feb 2019 12:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0215SBS01

Tot Ion:180 Resp: 116896
 Ion Ratio Lower Upper
 180 100
 182 93.4 48.6 145.9
 145 35.2 15.3 45.9

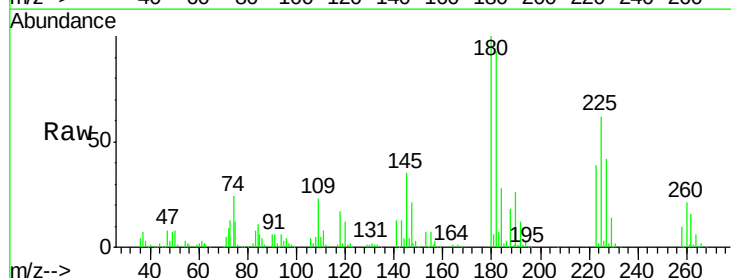


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

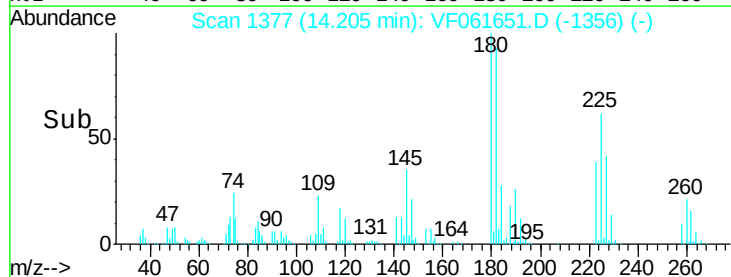
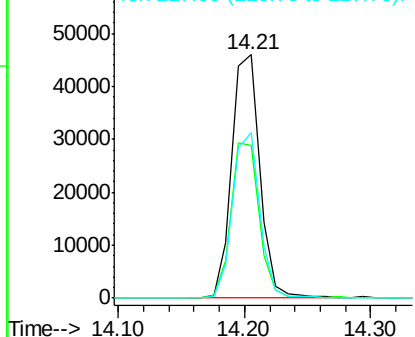


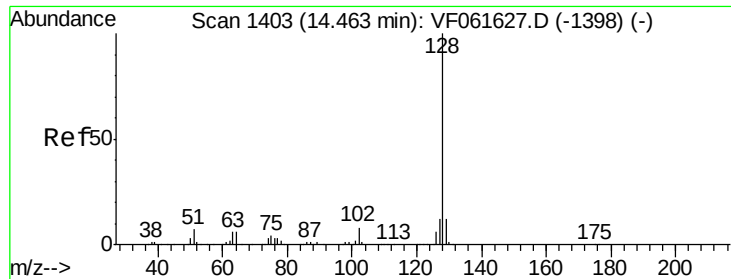
#94
 Hexachlorobutadiene
 Concen: 20.174 ug/l
 RT: 14.21 min Scan# 1377
 Delta R.T. 0.01 min
 Lab File: VF061651.D
 Acq: 15 Feb 2019 12:50

Tgt Ion:225 Resp: 70483
 Ion Ratio Lower Upper
 225 100
 223 62.5 30.9 92.7
 227 68.1 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

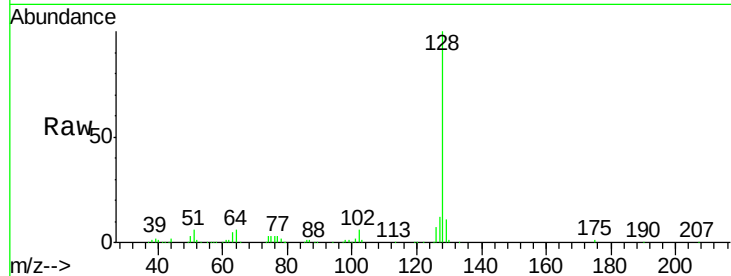




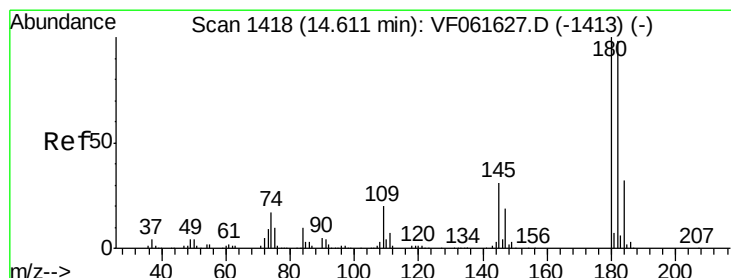
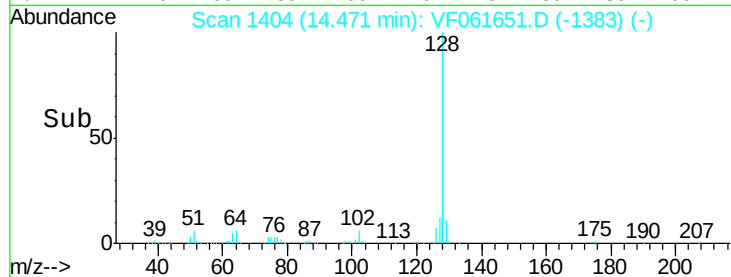
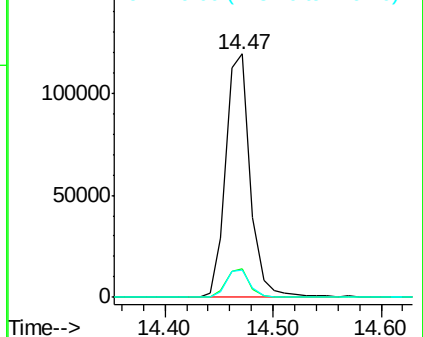
#95
Naphthalene
Concen: 19.130 ug/l
RT: 14.47 min Scan# 1404
Delta R.T. 0.01 min
Lab File: VF061651.D
Acq: 15 Feb 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0215SBS01

Tot Ion:128 Resp: 189345
Ion Ratio Lower Upper
128 100
127 11.7 9.8 14.6
129 11.3 9.4 14.2

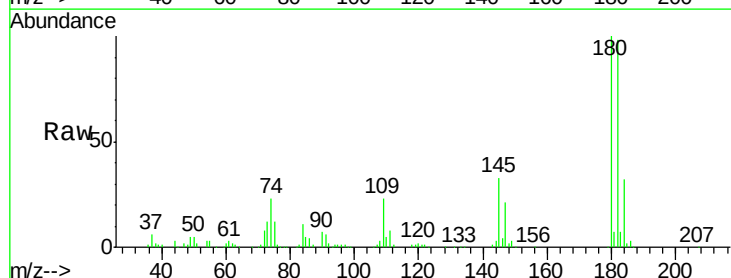


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 19.960 ug/l
RT: 14.61 min Scan# 1418
Delta R.T. -0.00 min
Lab File: VF061651.D
Acq: 15 Feb 2019 12:50

Tgt Ion:180 Resp: 103637
Ion Ratio Lower Upper
180 100
182 98.0 49.0 147.2
145 32.9 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

