

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051519\
 Data File : VF062609.D
 Acq On : 15 May 2019 15:24
 Operator : FY/SY
 Sample : VF0515SBS01
 Misc : 6.47g/5mL/MSVOA F/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0515SBS01

Quant Time: May 15 15:52:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F051419S.M
 Quant Title : SW846 8260
 QLast Update : Wed May 15 05:06:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.07	168	659707	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.79	114	1062947	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.92	117	794430	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	384300	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.05	65	217226	43.59	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	87.18%	
35) Dibromofluoromethane	4.33	113	379282	47.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.88%	
50) Toluene-d8	7.72	98	864097	46.35	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	92.70%	
62) 4-Bromofluorobenzene	11.50	95	298140	45.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.58%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.02	85	154802	22.730	ug/l	96
3) Chloromethane	1.15	50	153253	20.370	ug/l	96
4) Vinyl Chloride	1.20	62	143168	19.120	ug/l	95
5) Bromomethane	1.40	94	68254	17.261	ug/l	83
6) Chloroethane	1.45	64	58197	20.466	ug/l	96
7) Trichlorofluoromethane	1.56	101	206416	20.120	ug/l	91
8) Diethyl Ether	1.72	74	40667	17.683	ug/l	85
9) 1,1,2-Trichlorotrifluoroet	1.93	101	126359	18.056	ug/l #	90
10) Methyl Iodide	2.00	142	239093	19.183	ug/l	99
11) Tert butyl alcohol	2.71	59	27688	92.275	ug/l #	94
12) 1,1-Dichloroethene	1.88	96	114123	19.037	ug/l	95
13) Acrolein	2.11	56	23163	116.479	ug/l	93
14) Allyl chloride	2.21	41	115567	18.840	ug/l	96
15) Acrylonitrile	3.11	53	121573	113.264	ug/l	93
16) Acetone	2.36	43	101616	100.482	ug/l #	84
17) Carbon Disulfide	1.93	76	268968	17.383	ug/l	99
18) Methyl Acetate	2.47	43	41936	15.944	ug/l	94
19) Methyl tert-butyl Ether	2.55	73	221288	20.732	ug/l	98
20) Methylene Chloride	2.35	84	129855m	17.970	ug/l	
21) trans-1,2-Dichloroethene	2.43	96	127278	21.068	ug/l	97
22) Diisopropyl ether	2.95	45	280112	19.640	ug/l	91
23) Vinyl Acetate	3.36	43	849579	108.907	ug/l	99
24) 1,1-Dichloroethane	3.03	63	209137	19.263	ug/l	97
25) 2-Butanone	4.53	43	231966	101.460	ug/l	94
26) 2,2-Dichloropropane	3.79	77	113511	19.372	ug/l	95
27) cis-1,2-Dichloroethene	3.67	96	173686	20.349	ug/l	87
28) Bromochloromethane	3.91	49	121748	19.949	ug/l	99
29) Tetrahydrofuran	4.29	42	103408	106.883	ug/l	99
30) Chloroform	4.07	83	261522	20.074	ug/l	97
31) Cyclohexane	3.89	56	235696	20.829	ug/l	94
32) 1,1,1-Trichloroethane	4.30	97	186700	21.261	ug/l	96
36) 1,1-Dichloropropene	4.49	75	191813	20.855	ug/l	96
37) Ethyl Acetate	4.32	43	87422	23.130	ug/l #	71
38) Carbon Tetrachloride	4.20	117	167253	22.167	ug/l	89

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 Quant Title : SW846 8260
 QLast Update : Wed May 15 05:06:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.65	83	233565	21.689	ug/l	94
40) Benzene	4.84	78	584004	22.319	ug/l	95
41) Methacrylonitrile	4.95	41	45439	21.230	ug/l #	93
42) 1,2-Dichloroethane	5.14	62	121293	21.844	ug/l	93
43) Isopropyl Acetate	7.13	43	102773	22.978	ug/l	92
44) Trichloroethene	5.70	130	160692	22.740	ug/l	100
45) 1,2-Dichloropropane	6.42	63	148468	22.542	ug/l	96
46) Dibromomethane	6.27	93	82847	22.498	ug/l	92
47) Bromodichloromethane	6.57	83	177362	22.405	ug/l	95
48) Methyl methacrylate	6.89	41	51742	21.135	ug/l	93
49) 1,4-Dioxane	6.88	88	12112	375.433	ug/l #	89
51) 4-Methyl-2-Pentanone	8.41	43	358835	109.494	ug/l	97
52) Toluene	7.79	92	296686	22.587	ug/l	98
53) t-1,3-Dichloropropene	8.44	75	142195	22.737	ug/l	95
54) cis-1,3-Dichloropropene	7.47	75	200307	22.665	ug/l	98
55) 1,1,2-Trichloroethane	8.64	97	89509	22.759	ug/l	97
56) Ethyl methacrylate	8.76	69	93565	21.707	ug/l #	90
57) 1,3-Dichloropropane	9.01	76	143400	22.092	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.46	63	157824	117.021	ug/l	98
59) 2-Hexanone	9.63	43	242805	112.180	ug/l	96
60) Dibromochloromethane	8.87	129	110818	22.178	ug/l	96
61) 1,2-Dibromoethane	9.14	107	93697	23.754	ug/l	98
64) Tetrachloroethene	8.32	164	117725	22.426	ug/l	94
65) Chlorobenzene	9.95	112	307527	22.266	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.07	131	125229	22.075	ug/l	93
67) Ethyl Benzene	10.04	91	531389	21.655	ug/l	100
68) m/p-Xylenes	10.27	106	404230	46.477	ug/l	96
69) o-Xylene	10.82	106	201434	22.078	ug/l	93
70) Styrene	10.90	104	300024	21.641	ug/l	98
71) Bromoform	10.88	173	56454	21.136	ug/l	97
73) Isopropylbenzene	11.22	105	551847	21.357	ug/l	98
74) N-amyl acetate	11.45	43	139041	22.161	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.78	83	108224	20.445	ug/l	95
76) 1,2,3-Trichloropropane	11.88	75	71456	21.056	ug/l	88
77) Bromobenzene	11.59	156	127668	21.864	ug/l	78
78) n-propylbenzene	11.68	91	655797	21.338	ug/l	94
79) 2-Chlorotoluene	11.80	91	366767	21.623	ug/l	98
80) 1,3,5-Trimethylbenzene	11.90	105	444878	21.995	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.95	75	30570m	21.134	ug/l	
82) 4-Chlorotoluene	11.98	91	365732	22.052	ug/l	94
83) tert-Butylbenzene	12.20	119	484403	22.895	ug/l	98
84) 1,2,4-Trimethylbenzene	12.27	105	449848	22.641	ug/l	97
85) sec-Butylbenzene	12.37	105	637857	22.206	ug/l	99
86) p-Isopropyltoluene	12.53	119	529349	22.387	ug/l	95
87) 1,3-Dichlorobenzene	12.55	146	248950	21.798	ug/l	98
88) 1,4-Dichlorobenzene	12.63	146	232024	21.657	ug/l	94
89) n-Butylbenzene	12.90	91	548528	22.790	ug/l	94
90) Hexachloroethane	12.98	117	135391	22.354	ug/l	76
91) 1,2-Dichlorobenzene	13.00	146	230647	22.764	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.69	75	12999	19.991	ug/l	97

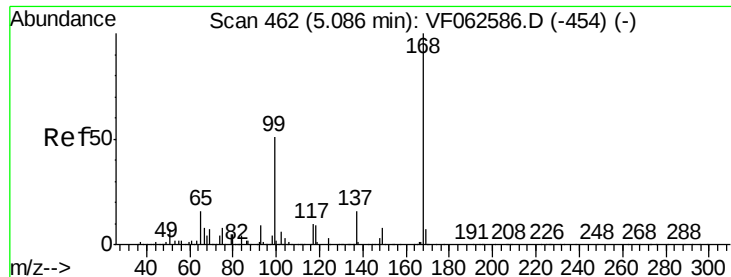
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF051519\
Data File : VF062609.D
Acq On : 15 May 2019 15:24
Operator : FY/SY
Sample : VF0515SBSD01
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ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VF0515SBSD01

Quant Time: May 15 15:52:39 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F051419S.M
Quant Title : SW846 8260
QLast Update : Wed May 15 05:06:28 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.24	180	163150	23.156	ug/l	96
94) Hexachlorobutadiene	14.23	225	114715	22.414	ug/l	92
95) Naphthalene	14.50	128	248739	21.690	ug/l	99
96) 1,2,3-Trichlorobenzene	14.65	180	151098	23.117	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.07 min Scan# 460

Delta R.T. -0.02 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

Instrument :

MSVOA_F

ClientSampleId :

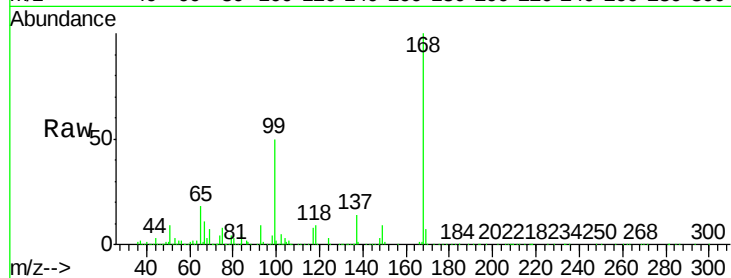
VF0515SBS01

Tot Ion:168 Resp: 659707

Ion Ratio Lower Upper

168 100

99 50.2 41.0 61.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.07

250000

200000

150000

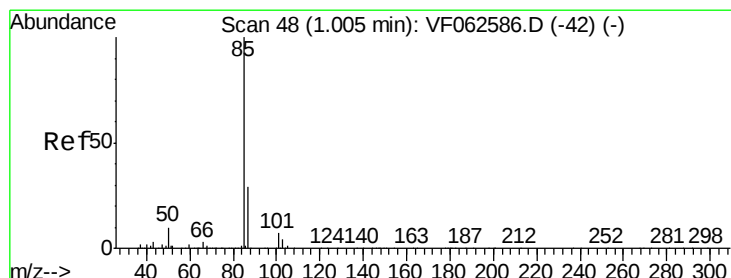
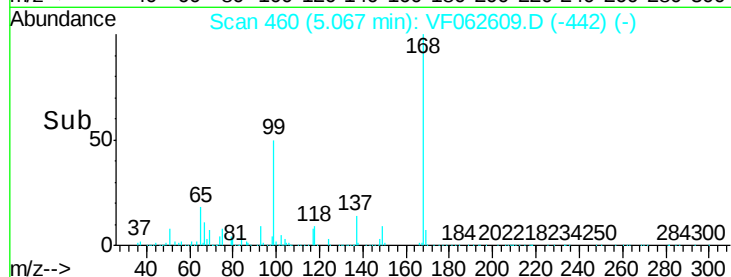
100000

50000

0

Time-->

4.90 5.00 5.10 5.20 5.30



#2

Dichlorodifluoromethane

Concen: 22.730 ug/l

RT: 1.02 min Scan# 49

Delta R.T. 0.01 min

Lab File: VF062609.D

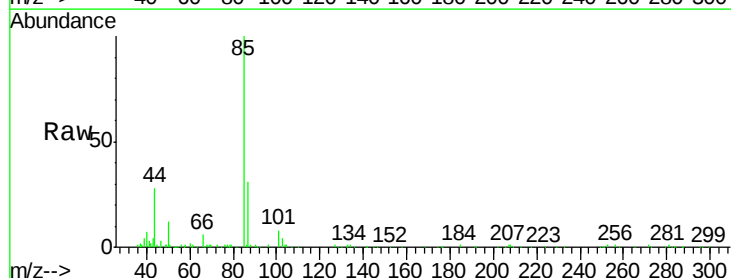
Acq: 15 May 2019 15:24

Tgt Ion: 85 Resp: 154802

Ion Ratio Lower Upper

85 100

87 31.2 14.6 43.8



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

1.02

40000

30000

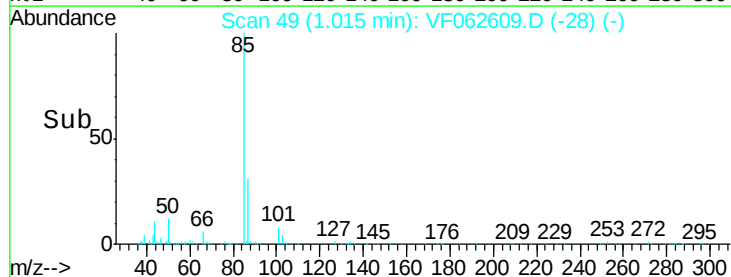
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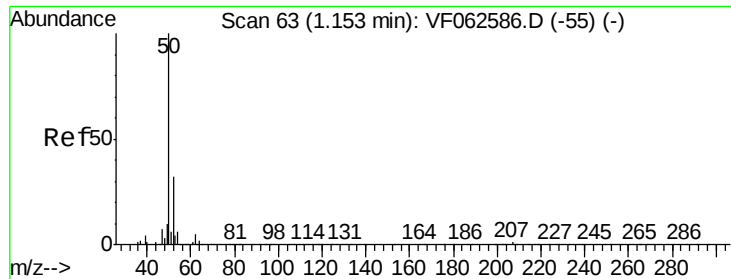
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0

Time-->

0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 20.370 ug/l

RT: 1.15 min Scan# 63

Delta R.T. 0.00 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

Instrument :

MSVOA_F

ClientSampleId :

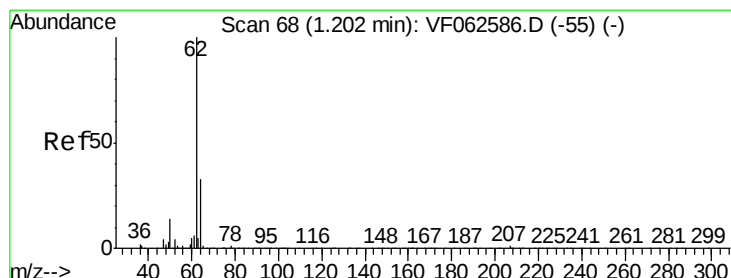
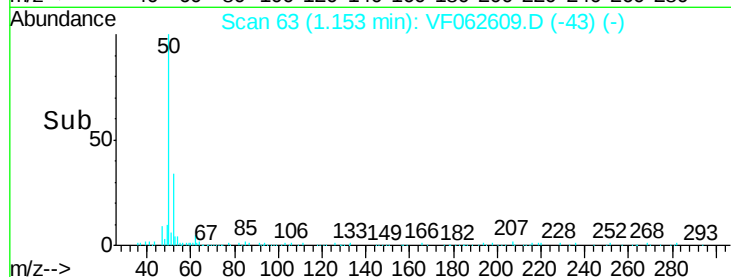
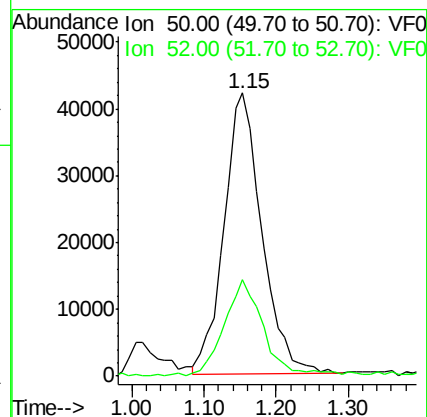
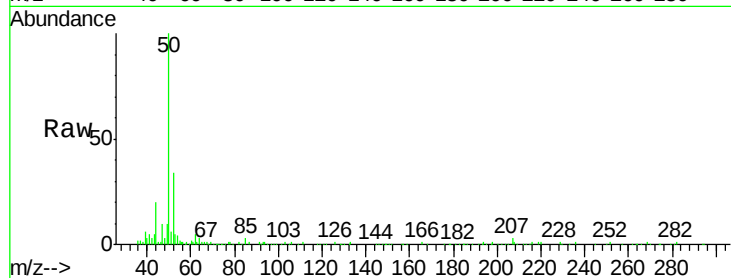
VF0515SBS01

Tot Ion: 50 Resp: 153253

Ion Ratio Lower Upper

50 100

52 34.1 25.3 37.9



#4

Vinyl Chloride

Concen: 19.120 ug/l

RT: 1.20 min Scan# 68

Delta R.T. 0.00 min

Lab File: VF062609.D

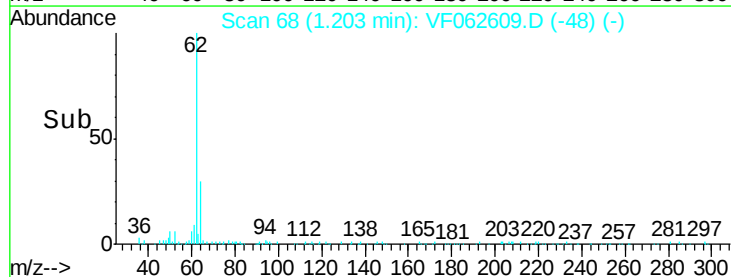
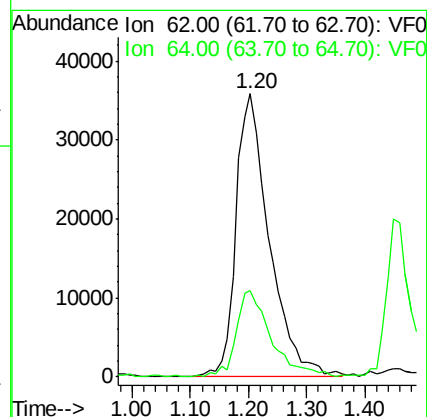
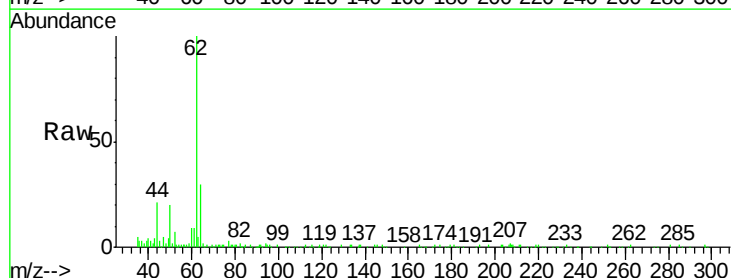
Acq: 15 May 2019 15:24

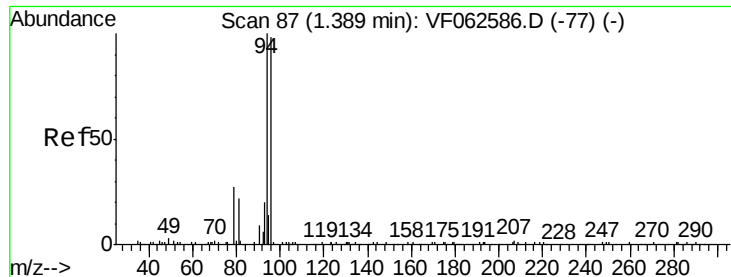
Tgt Ion: 62 Resp: 143168

Ion Ratio Lower Upper

62 100

64 30.5 26.5 39.7





#5

Bromomethane

Concen: 17.261 ug/l

RT: 1.40 min Scan# 88

Delta R.T. 0.01 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

Instrument :

MSVOA_F

ClientSampleId :

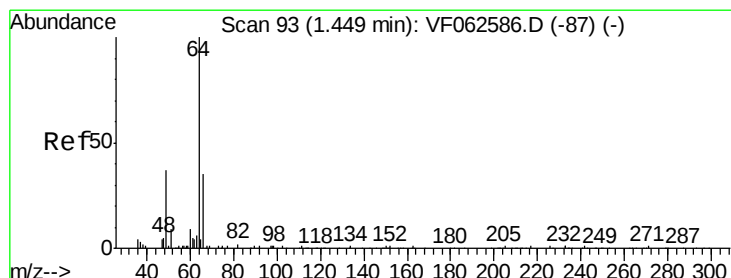
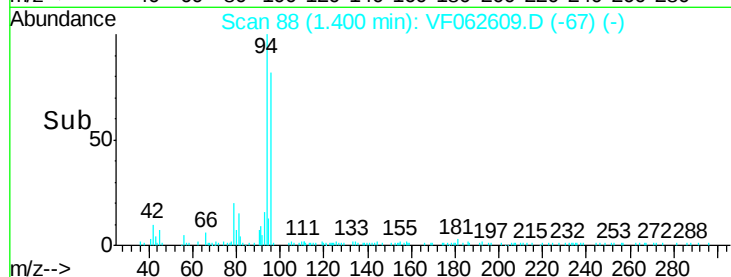
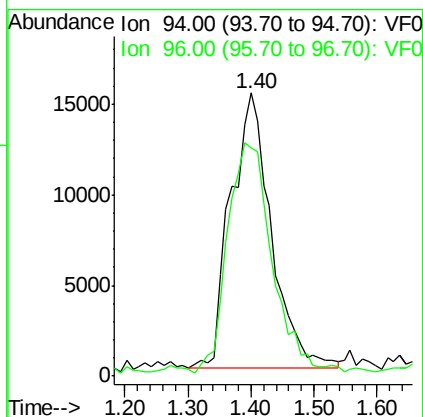
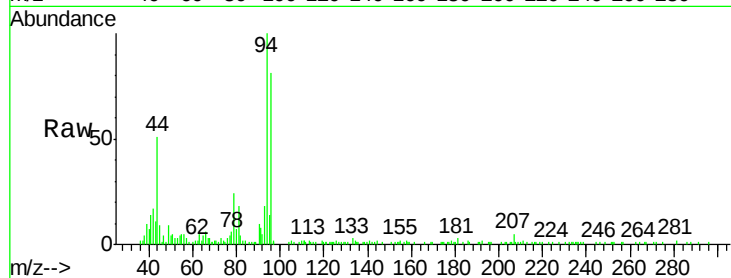
VF0515SBSD01

Tot Ion: 94 Resp: 68254

Ion Ratio Lower Upper

94 100

96 82.7 79.3 118.9



#6

Chloroethane

Concen: 20.466 ug/l

RT: 1.45 min Scan# 93

Delta R.T. 0.00 min

Lab File: VF062609.D

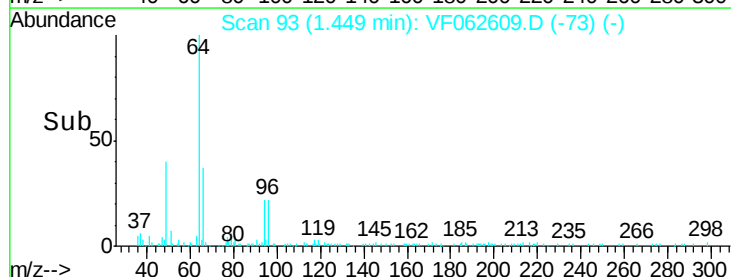
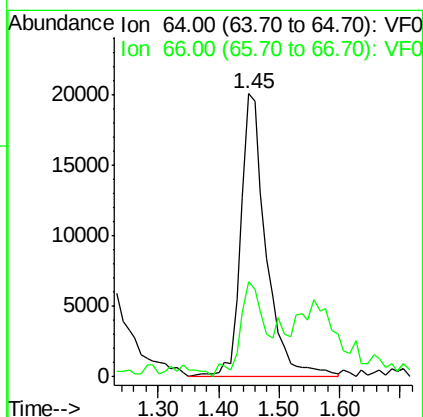
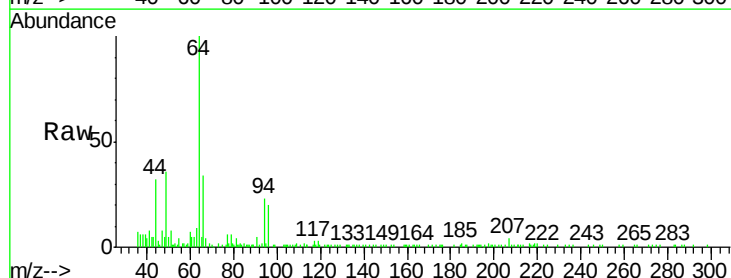
Acq: 15 May 2019 15:24

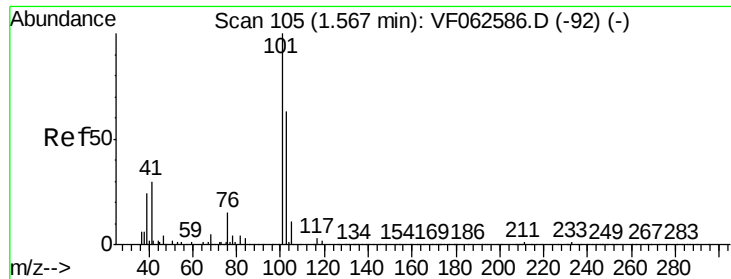
Tgt Ion: 64 Resp: 58197

Ion Ratio Lower Upper

64 100

66 33.6 28.9 43.3



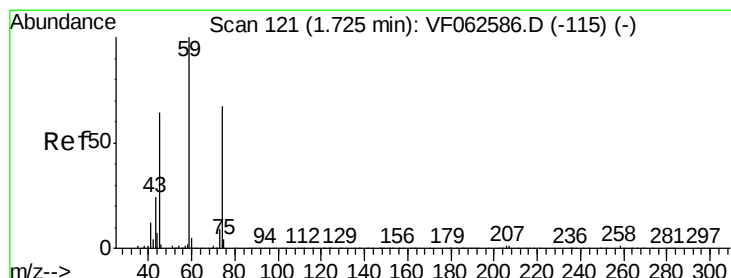
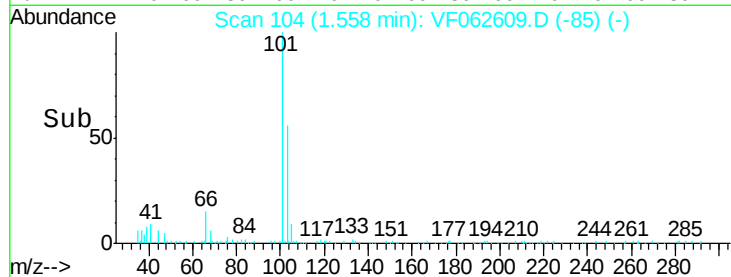
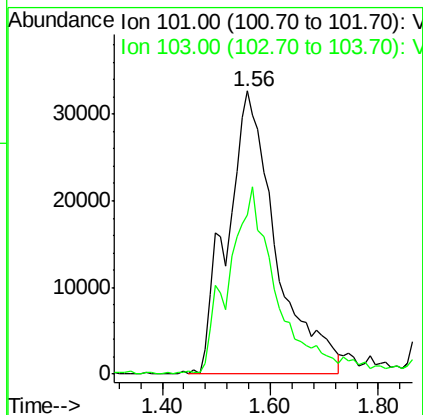
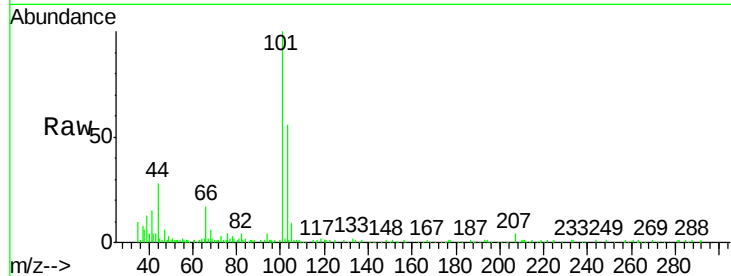


#7

Trichlorofluoromethane
Concen: 20.120 ug/l
RT: 1.56 min Scan# 104
Delta R.T. -0.01 min
Lab File: VF062609.D
Acq: 15 May 2019 15:24

Instrument :
MSVOA_F
ClientSampleId :
VF0515SBS01

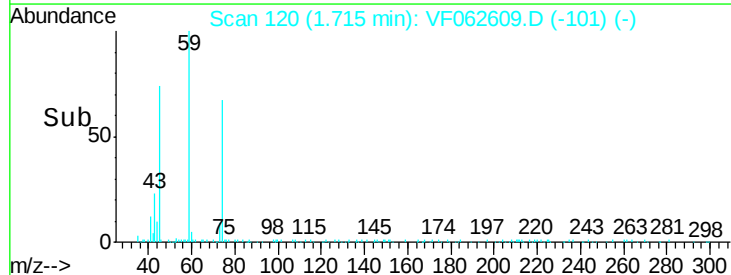
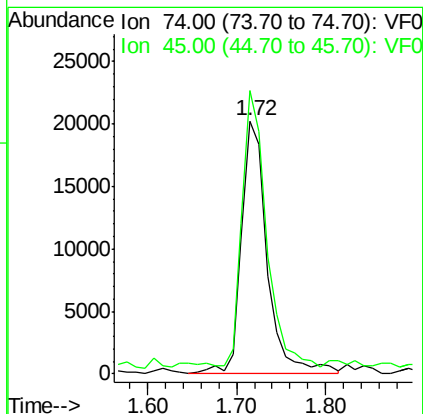
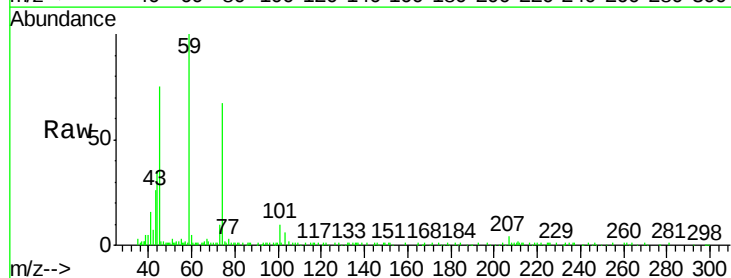
Tot Ion:101 Resp: 206416
Ion Ratio Lower Upper
101 100
103 56.4 50.8 76.2

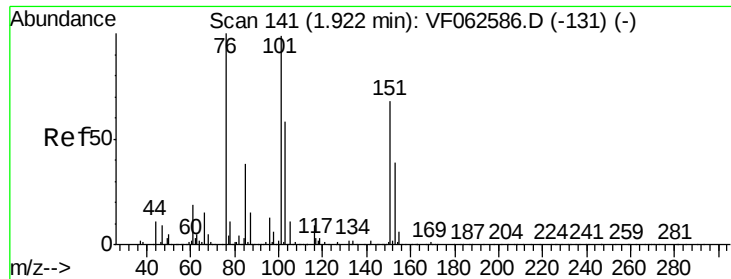


#8

Diethyl Ether
Concen: 17.683 ug/l
RT: 1.72 min Scan# 120
Delta R.T. -0.01 min
Lab File: VF062609.D
Acq: 15 May 2019 15:24

Tgt Ion: 74 Resp: 40667
Ion Ratio Lower Upper
74 100
45 111.9 48.6 145.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.056 ug/l

RT: 1.93 min Scan# 142

Delta R.T. 0.01 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

Instrument :

MSVOA_F

ClientSampleId :

VF0515SBS01

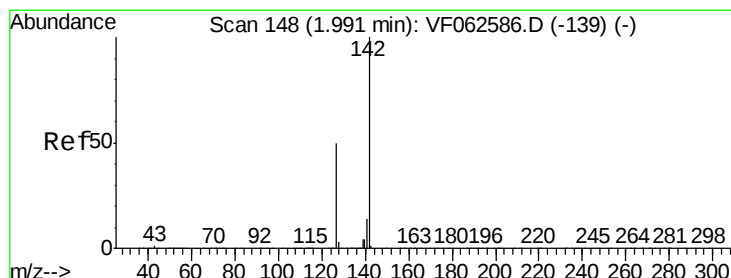
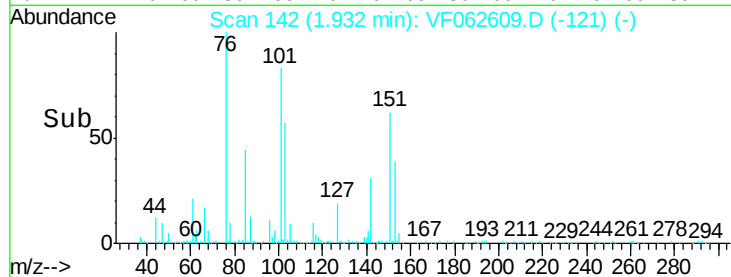
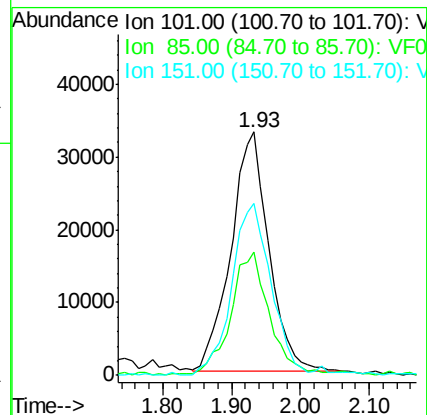
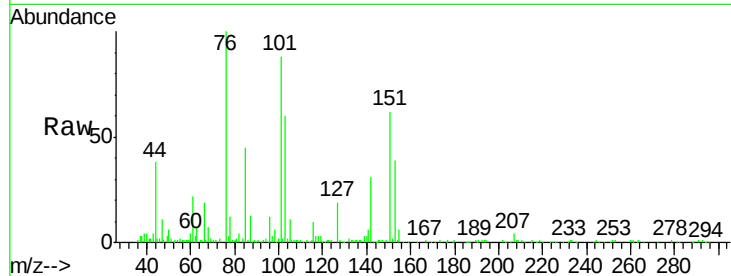
Tot Ion:101 Resp: 126359

Ion Ratio Lower Upper

101 100

85 50.8 30.2 45.4#

151 70.6 54.5 81.7



#10

Methyl Iodide

Concen: 19.183 ug/l

RT: 2.00 min Scan# 149

Delta R.T. 0.01 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

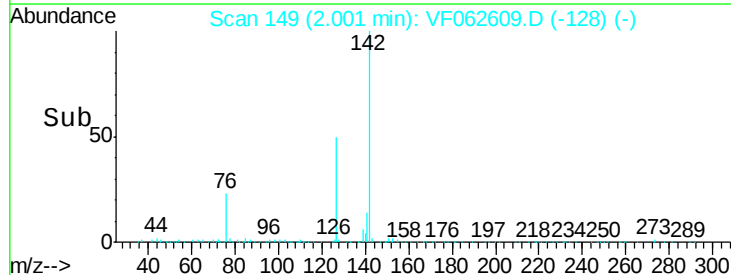
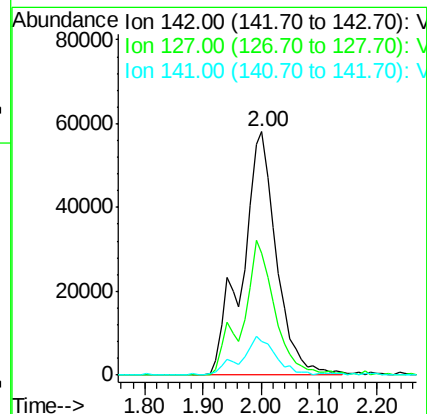
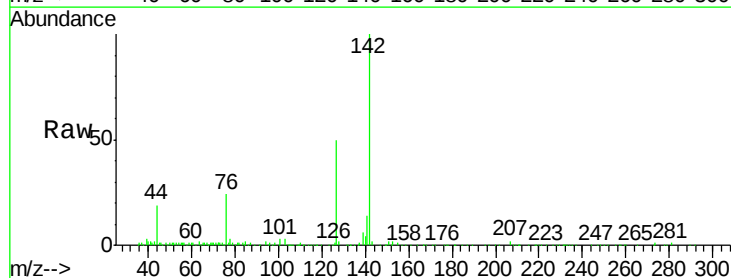
Tgt Ion:142 Resp: 239093

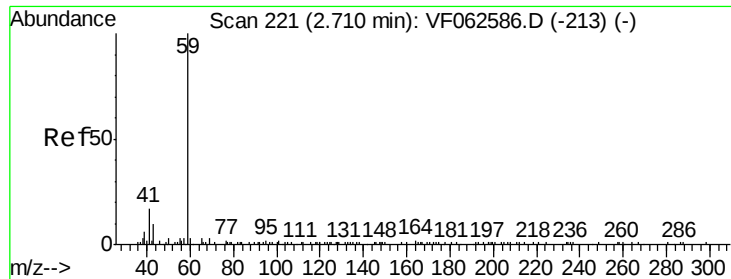
Ion Ratio Lower Upper

142 100

127 50.1 40.2 60.4

141 13.9 11.6 17.4



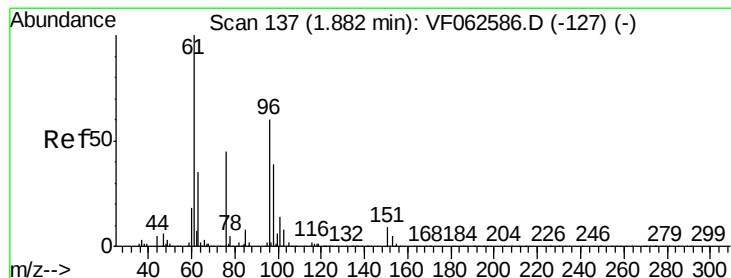
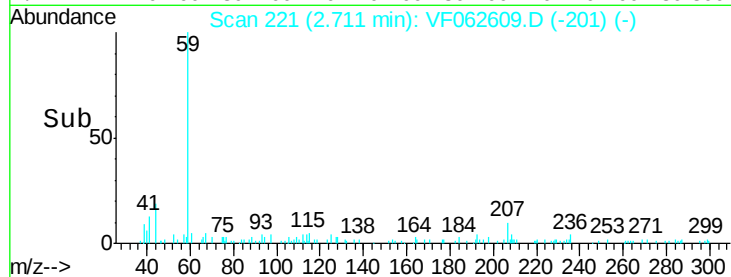
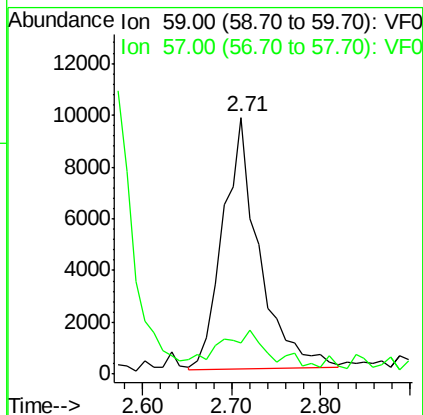
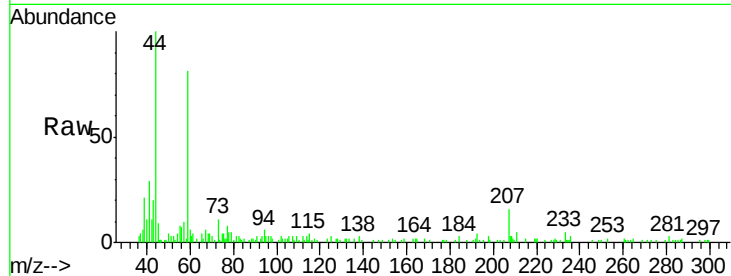


#11

Tert butyl alcohol
Concen: 92.275 ug/l
RT: 2.71 min Scan# 221
Delta R.T. 0.00 min
Lab File: VF062609.D
Acq: 15 May 2019 15:24

Instrument :
MSVOA_F
ClientSampleId :
VF0515SBS01

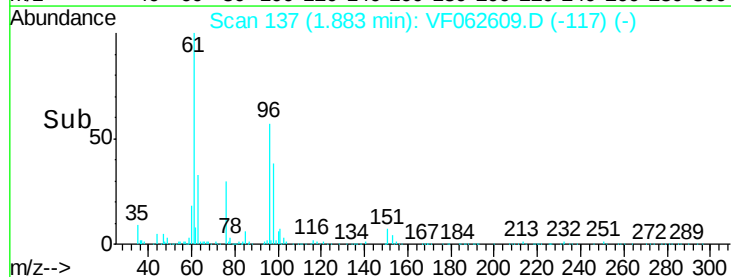
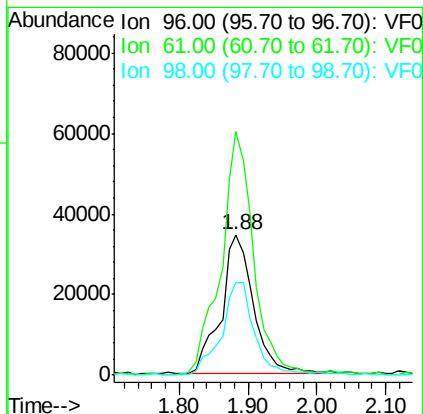
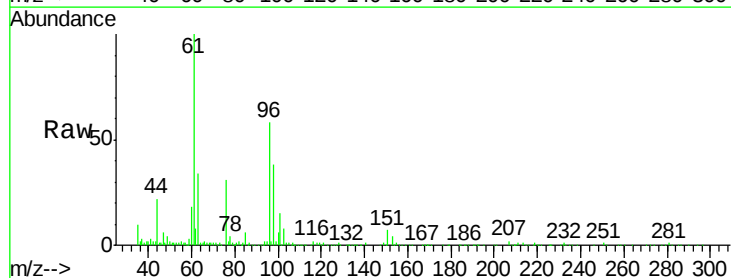
Tot Ion: 59 Resp: 27688
Ion Ratio Lower Upper
59 100
57 12.2 8.0 12.0#

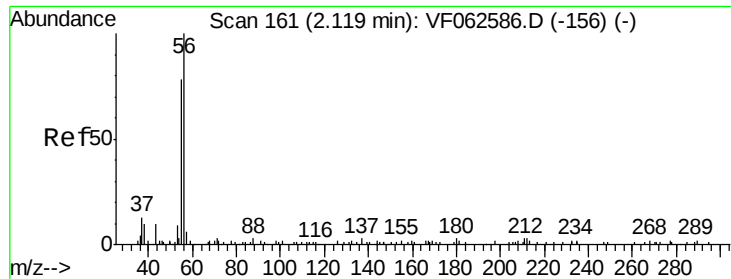


#12

1,1-Dichloroethene
Concen: 19.037 ug/l
RT: 1.88 min Scan# 137
Delta R.T. 0.00 min
Lab File: VF062609.D
Acq: 15 May 2019 15:24

Tgt Ion: 96 Resp: 114123
Ion Ratio Lower Upper
96 100
61 173.6 132.0 198.0
98 65.6 51.3 76.9





#13

Acrolein

Concen: 116.479 ug/l

RT: 2.11 min Scan# 160

Delta R.T. -0.01 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

Instrument :

MSVOA_F

ClientSampleId :

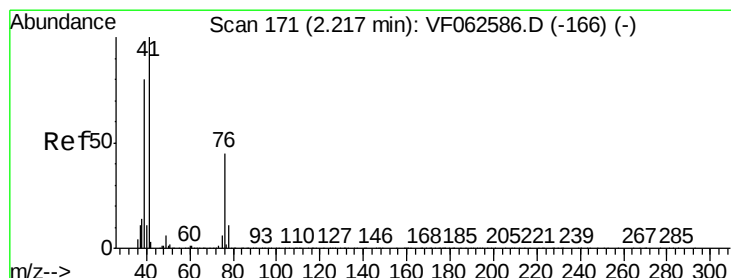
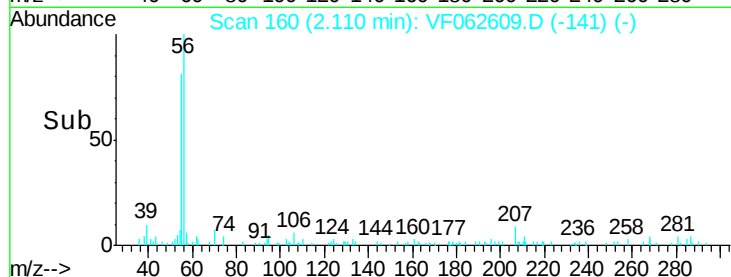
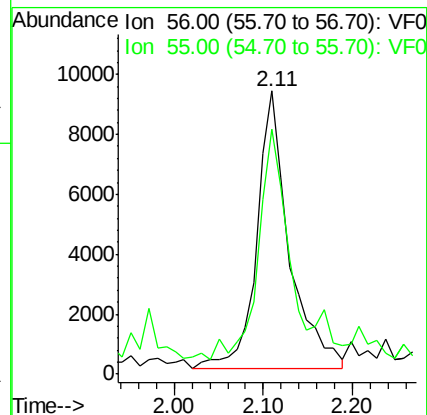
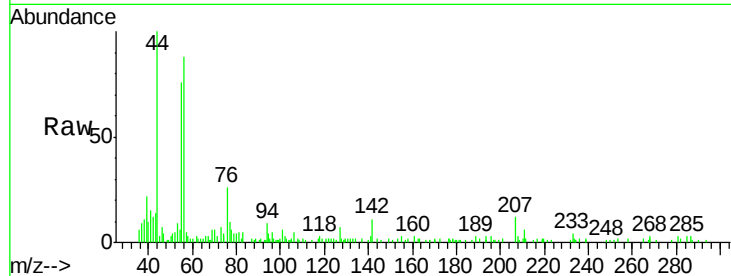
VF0515SBS01

Tot Ion: 56 Resp: 23163

Ion Ratio Lower Upper

56 100

55 86.7 64.6 96.8



#14

Allyl chloride

Concen: 18.840 ug/l

RT: 2.21 min Scan# 170

Delta R.T. -0.01 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

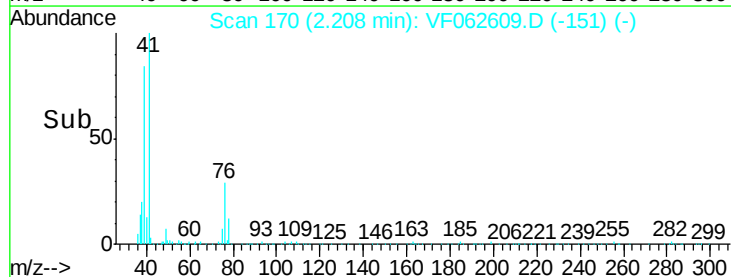
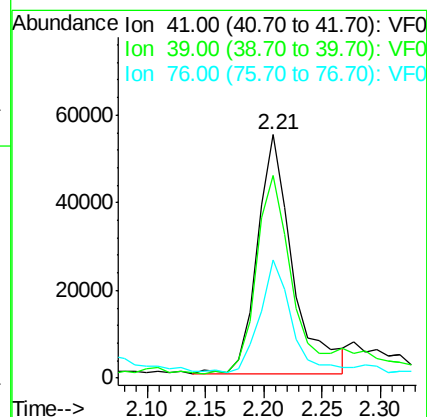
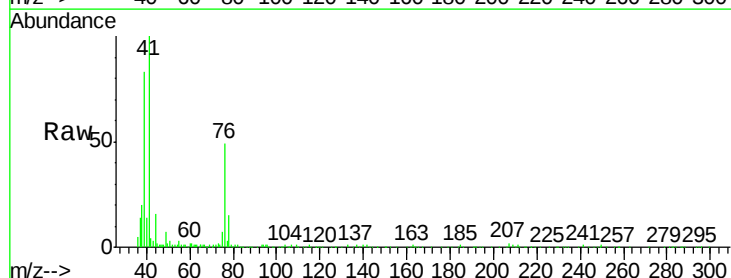
Tgt Ion: 41 Resp: 115567

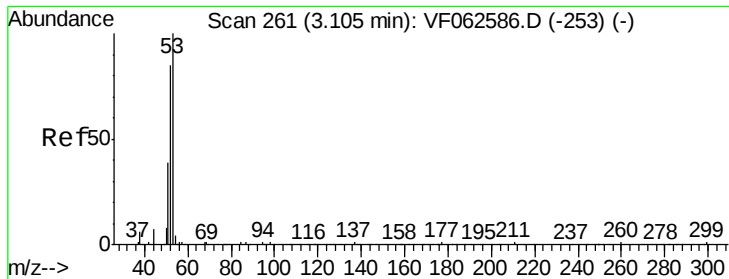
Ion Ratio Lower Upper

41 100

39 83.5 64.6 96.8

76 48.6 36.1 54.1





#15

Acrylonitrile

Concen: 113.264 ug/l

RT: 3.11 min Scan# 261

Delta R.T. 0.00 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

Instrument :

MSVOA_F

ClientSampleId :

VF0515SBS01

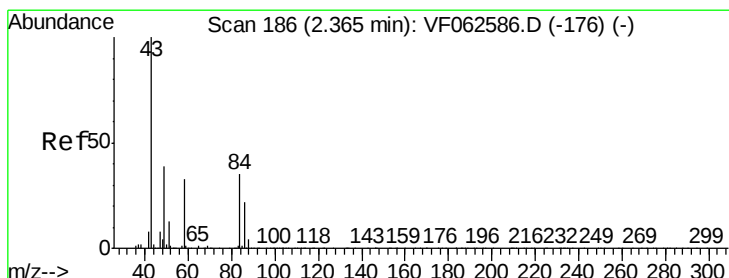
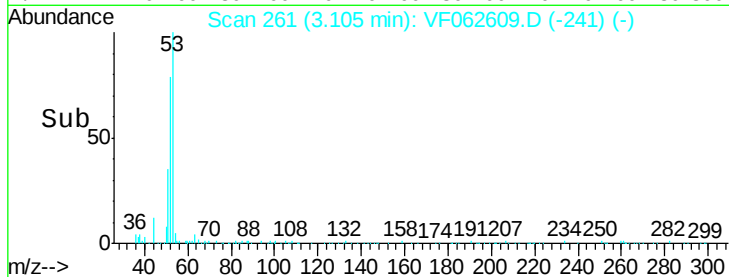
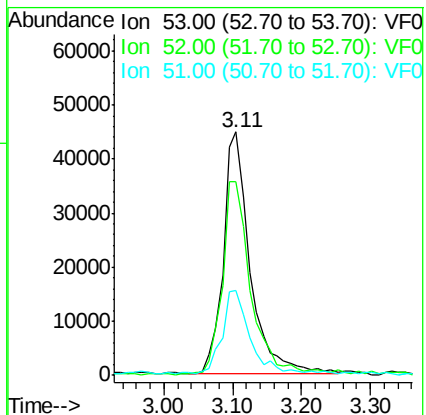
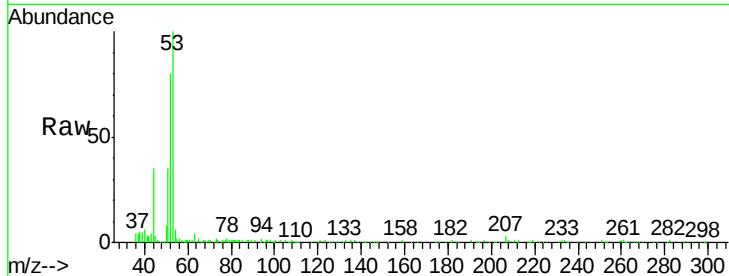
Tot Ion: 53 Resp: 121573

Ion Ratio Lower Upper

53 100

52 79.5 68.3 102.5

51 35.0 31.5 47.3



#16

Acetone

Concen: 100.482 ug/l

RT: 2.36 min Scan# 185

Delta R.T. -0.01 min

Lab File: VF062609.D

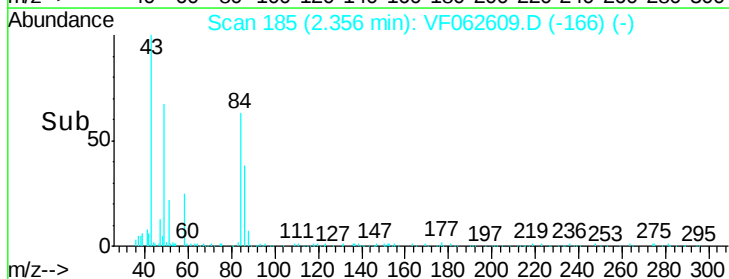
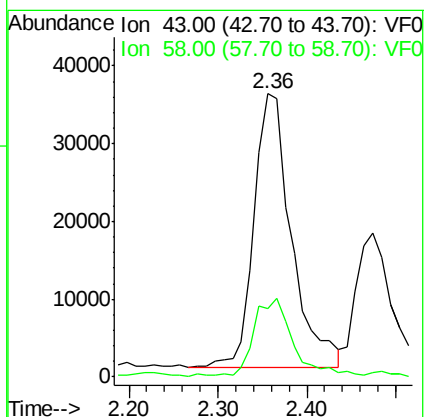
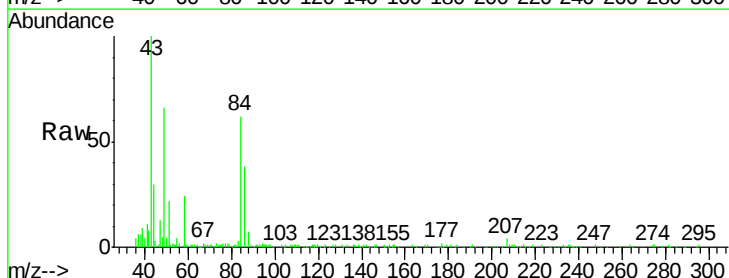
Acq: 15 May 2019 15:24

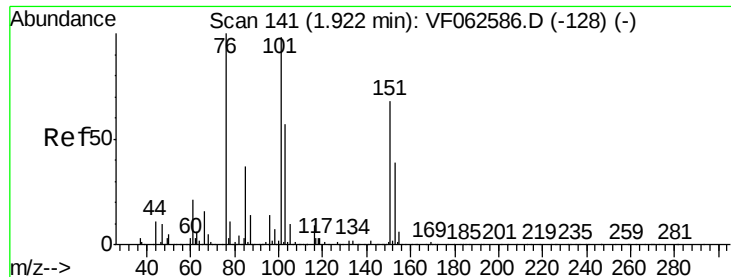
Tgt Ion: 43 Resp: 101616

Ion Ratio Lower Upper

43 100

58 24.2 26.7 40.1#





#17

Carbon Disulfide

Concen: 17.383 ug/l

RT: 1.93 min Scan# 142

Delta R.T. 0.01 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

Instrument :

MSVOA_F

ClientSampleId :

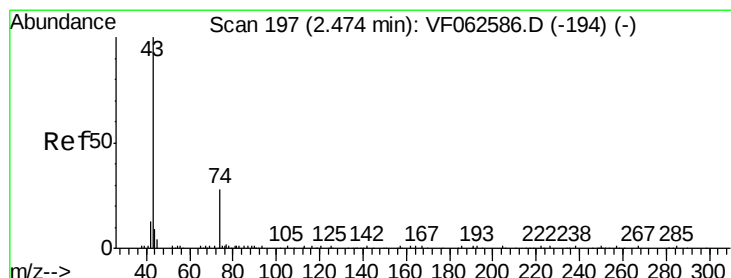
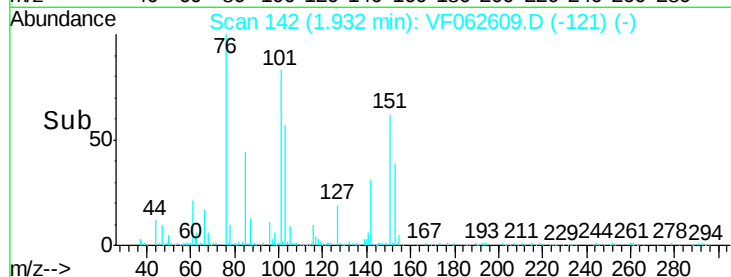
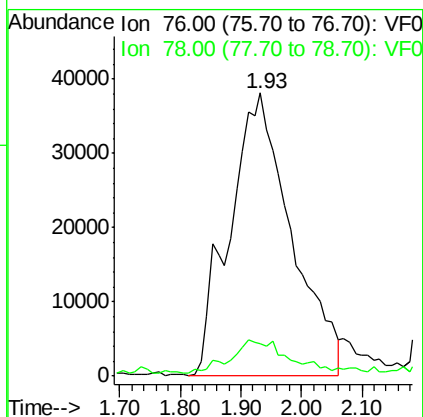
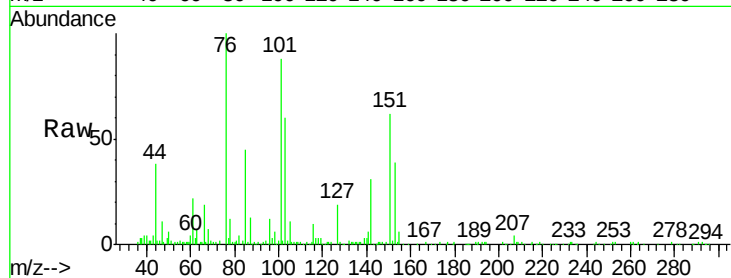
VF0515SBS01

Tot Ion: 76 Resp: 268968

Ion Ratio Lower Upper

76 100

78 11.6 9.0 13.4



#18

Methyl Acetate

Concen: 15.944 ug/l

RT: 2.47 min Scan# 197

Delta R.T. 0.00 min

Lab File: VF062609.D

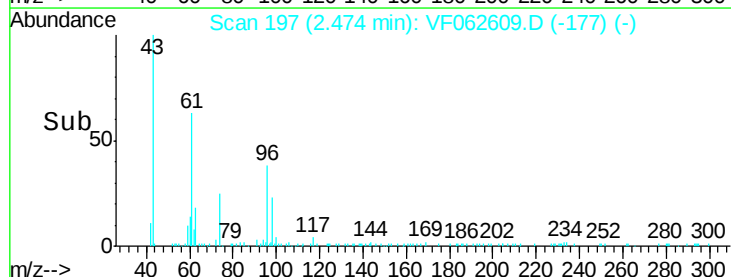
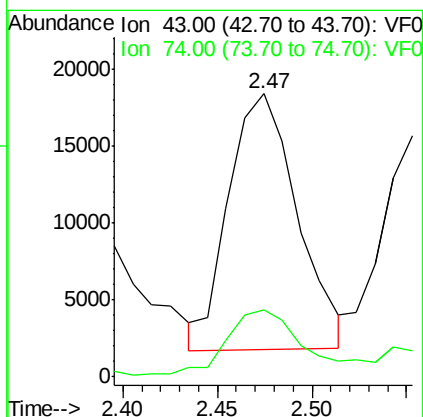
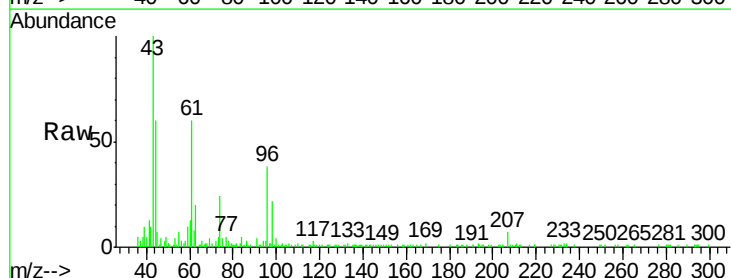
Acq: 15 May 2019 15:24

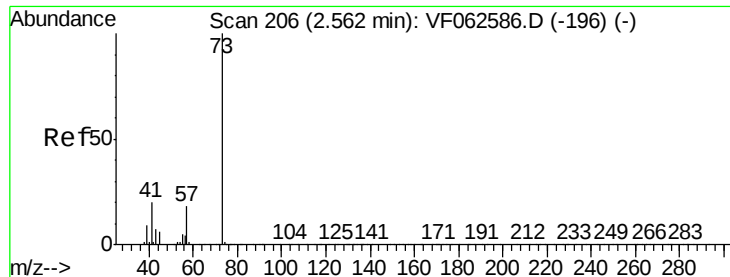
Tgt Ion: 43 Resp: 41936

Ion Ratio Lower Upper

43 100

74 23.7 21.4 32.0



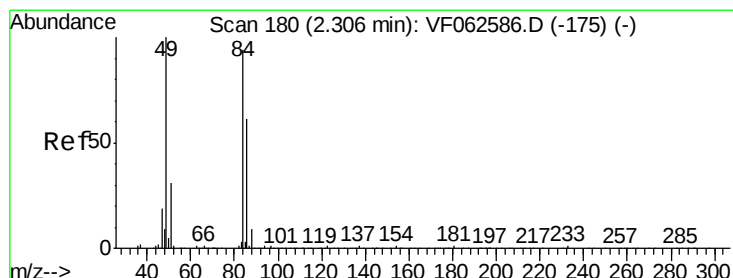
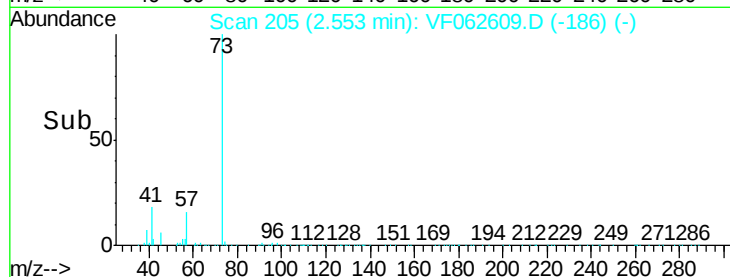
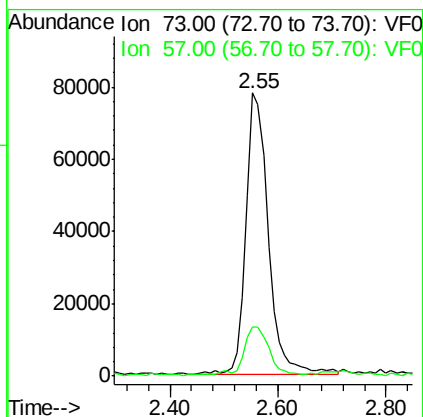
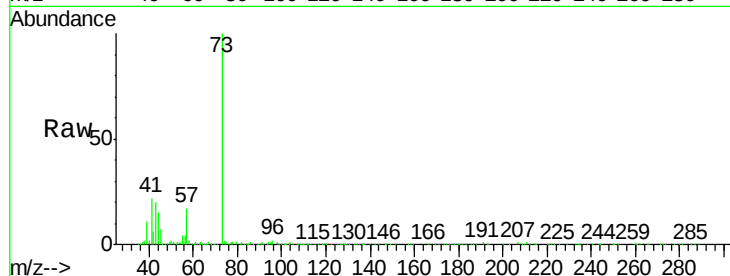


#19

Methyl tert-butyl Ether
 Concen: 20.732 ug/l
 RT: 2.55 min Scan# 205
 Delta R.T. -0.01 min
 Lab File: VF062609.D
 Acq: 15 May 2019 15:24

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0515SBS01

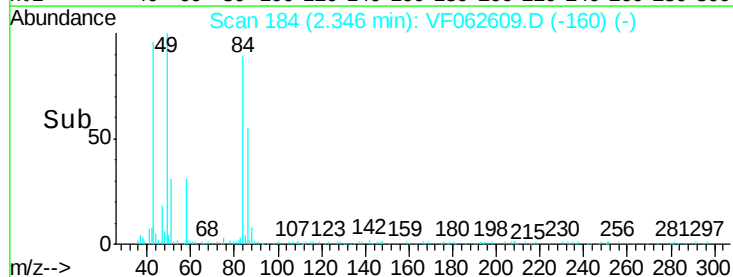
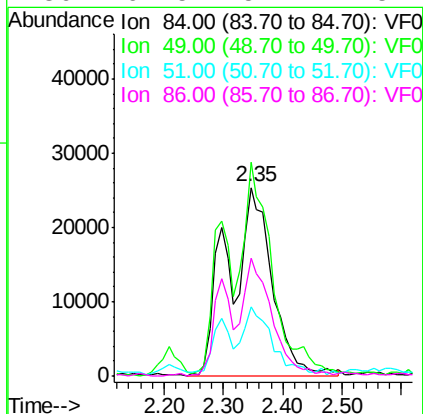
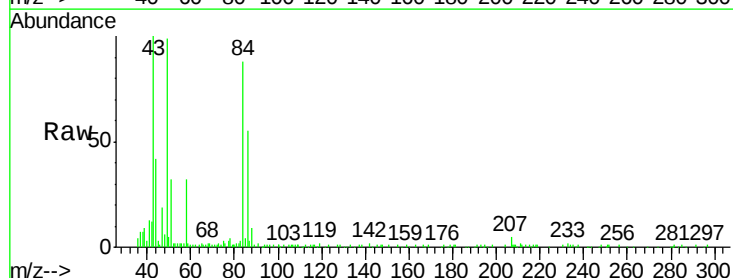
Tot Ion: 73 Resp: 221288
 Ion Ratio Lower Upper
 73 100
 57 17.2 14.6 22.0

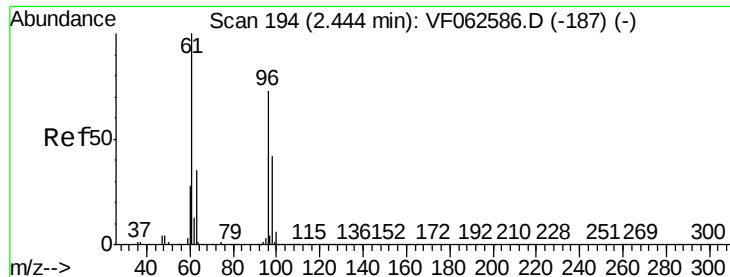


#20

Methylene Chloride
 Concen: 17.970 ug/l m
 RT: 2.35 min Scan# 184
 Delta R.T. 0.04 min
 Lab File: VF062609.D
 Acq: 15 May 2019 15:24

Tgt Ion: 84 Resp: 129855
 Ion Ratio Lower Upper
 84 100
 49 113.1 86.9 130.3
 51 36.6 27.0 40.6
 86 62.5 52.2 78.2





#21

trans-1,2-Dichloroethene

Concen: 21.068 ug/l

RT: 2.43 min Scan# 193

Delta R.T. -0.01 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

Instrument :

MSVOA_F

ClientSampleId :

VF0515SBS01

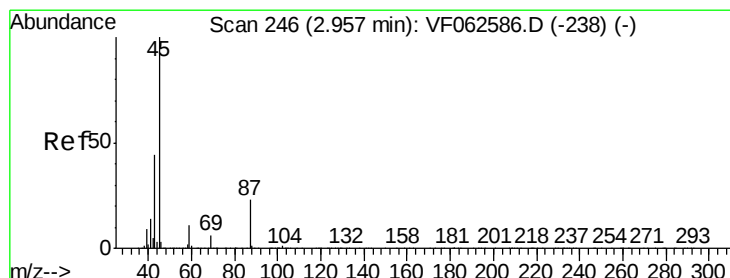
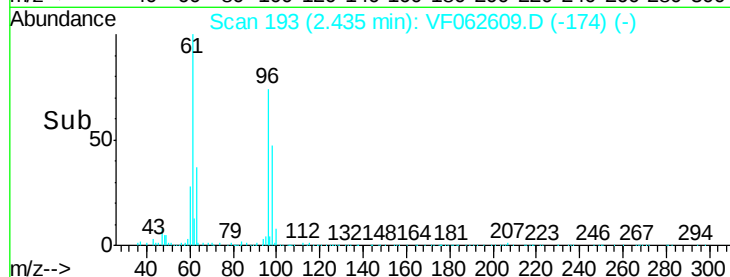
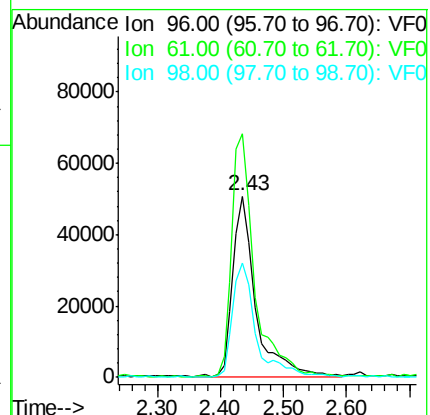
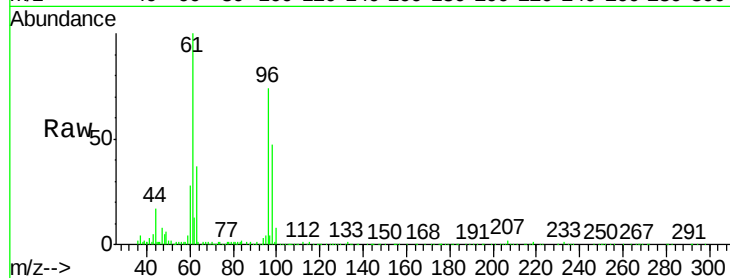
Tot Ion: 96 Resp: 127278

Ion Ratio Lower Upper

96 100

61 134.6 109.2 163.8

98 62.9 46.3 69.5



#22

Diisopropyl ether

Concen: 19.640 ug/l

RT: 2.95 min Scan# 245

Delta R.T. -0.01 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

Tgt Ion: 45 Resp: 280112

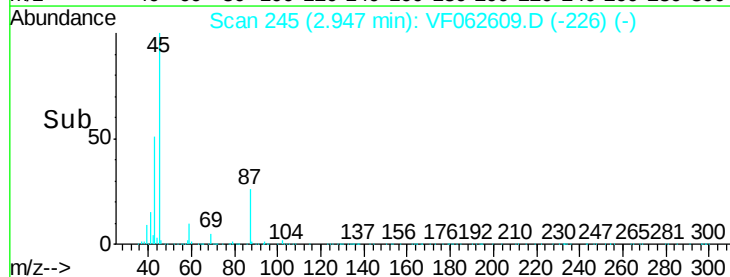
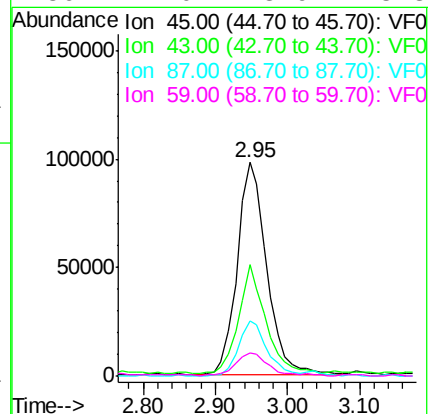
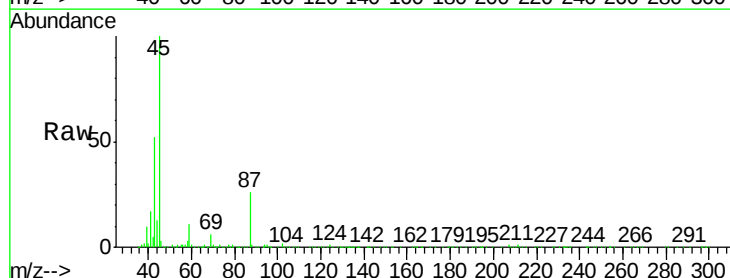
Ion Ratio Lower Upper

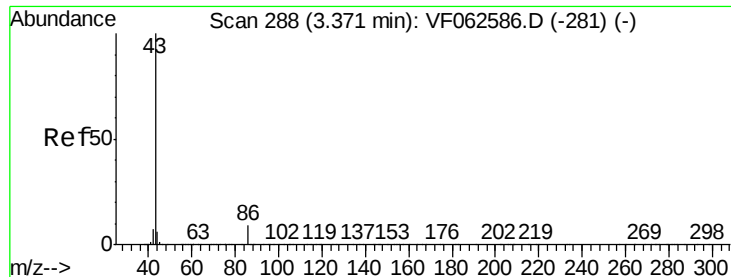
45 100

43 52.3 35.4 53.0

87 26.0 18.4 27.6

59 11.0 8.9 13.3





#23

Vinyl Acetate

Concen: 108.907 ug/l

RT: 3.36 min Scan# 287

Delta R.T. -0.01 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

Instrument :

MSVOA_F

ClientSampleId :

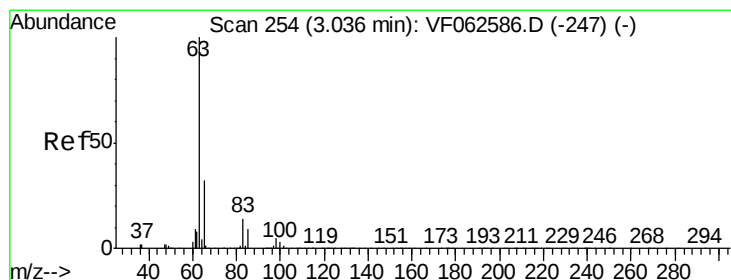
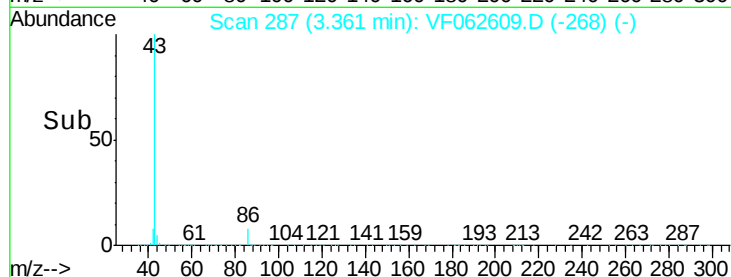
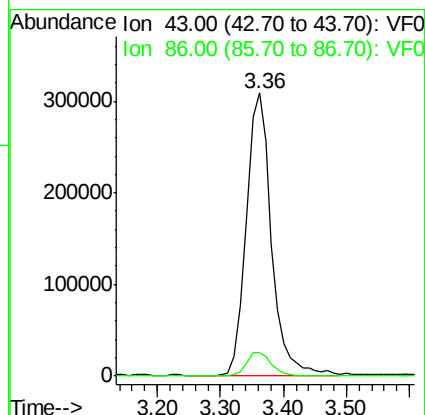
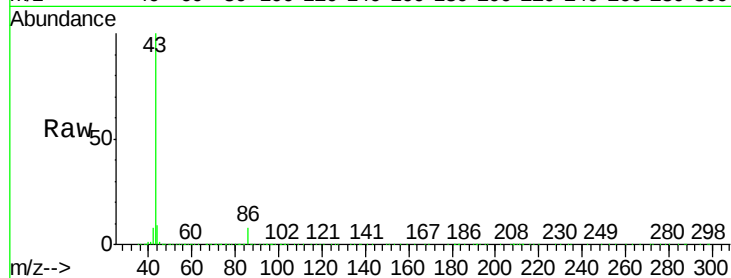
VF0515SBS01

Tot Ion: 43 Resp: 849579

Ion Ratio Lower Upper

43 100

86 8.4 7.1 10.7



#24

1,1-Dichloroethane

Concen: 19.263 ug/l

RT: 3.03 min Scan# 253

Delta R.T. -0.01 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

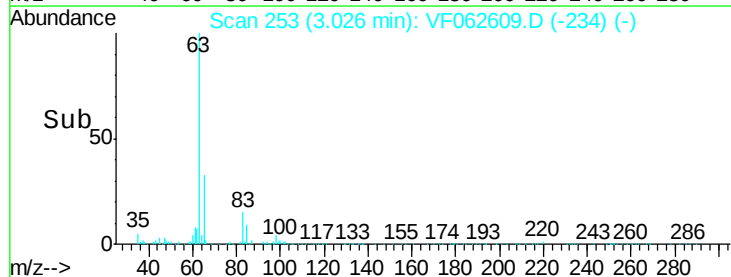
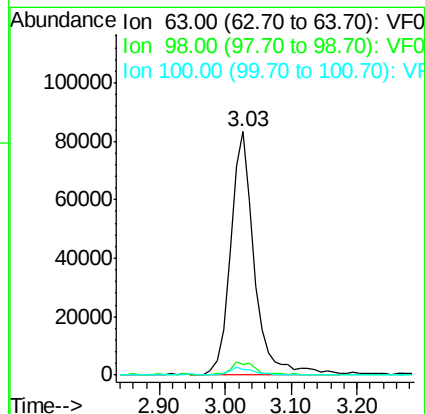
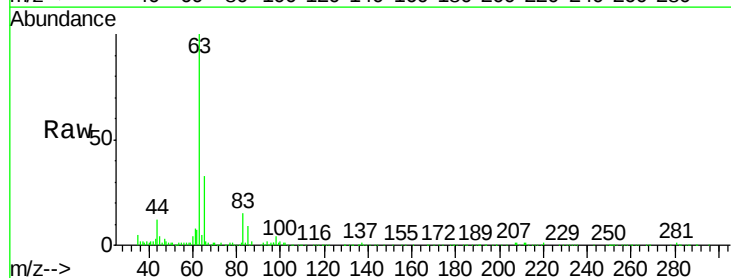
Tgt Ion: 63 Resp: 209137

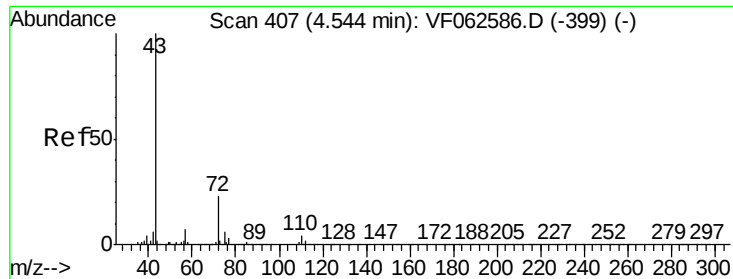
Ion Ratio Lower Upper

63 100

98 4.5 2.6 7.8

100 2.3 1.7 5.1





#25

2-Butanone

Concen: 101.460 ug/l

RT: 4.53 min Scan# 406

Delta R.T. -0.01 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

Instrument :

MSVOA_F

ClientSampleId :

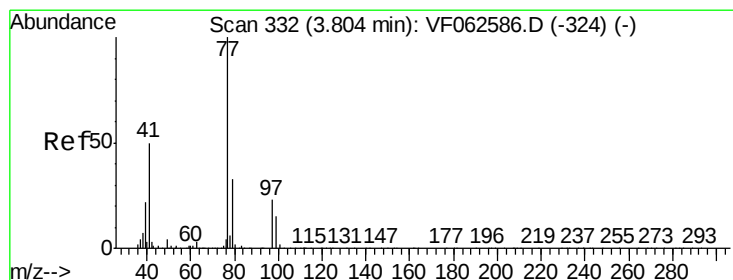
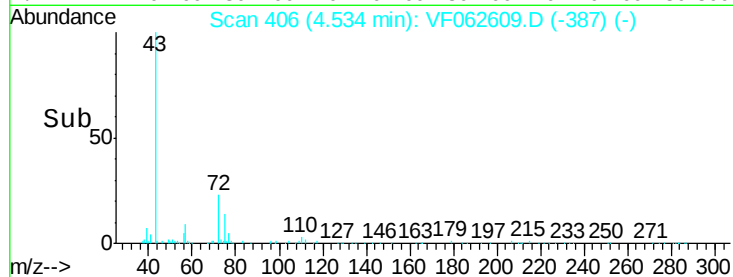
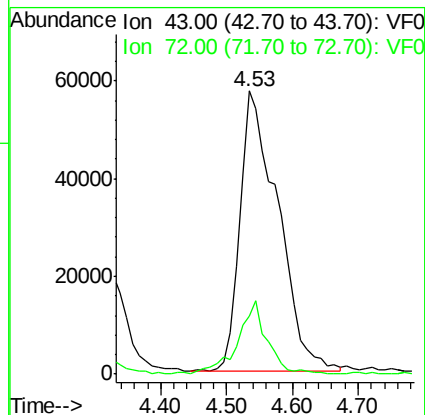
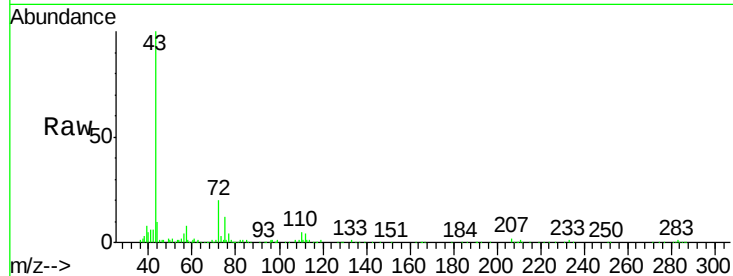
VF0515SBSD01

Tot Ion: 43 Resp: 231966

Ion Ratio Lower Upper

43 100

72 20.3 18.5 27.7



#26

2,2-Dichloropropane

Concen: 19.372 ug/l

RT: 3.79 min Scan# 330

Delta R.T. -0.02 min

Lab File: VF062609.D

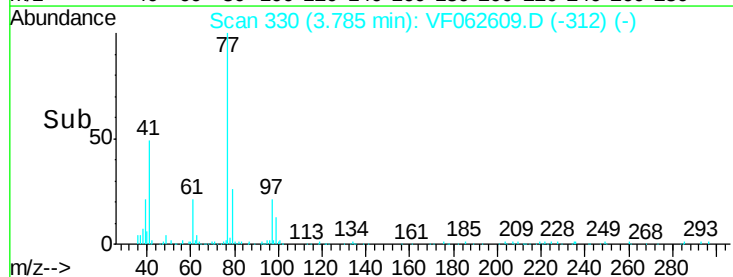
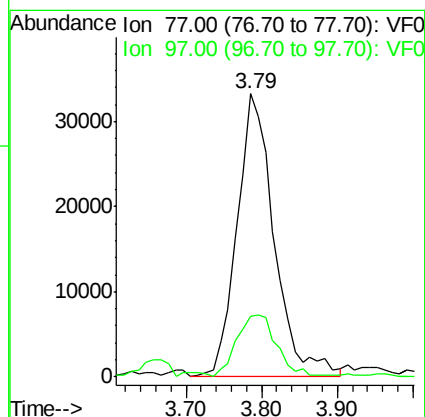
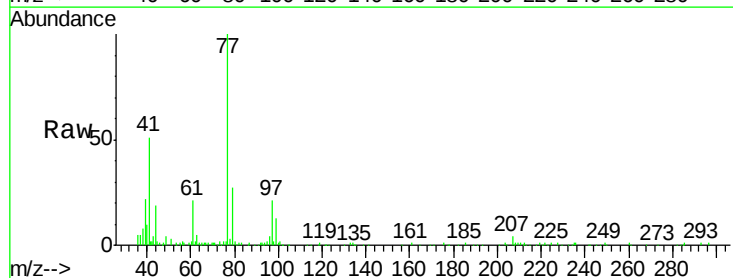
Acq: 15 May 2019 15:24

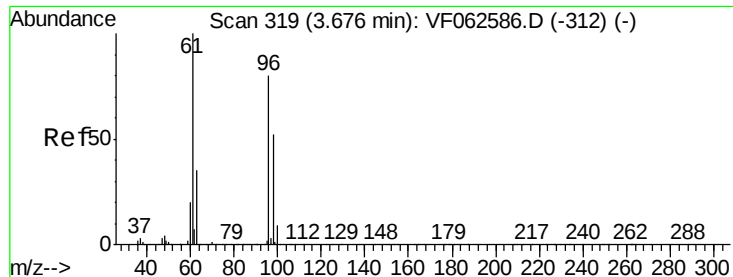
Tgt Ion: 77 Resp: 113511

Ion Ratio Lower Upper

77 100

97 21.3 12.0 36.0



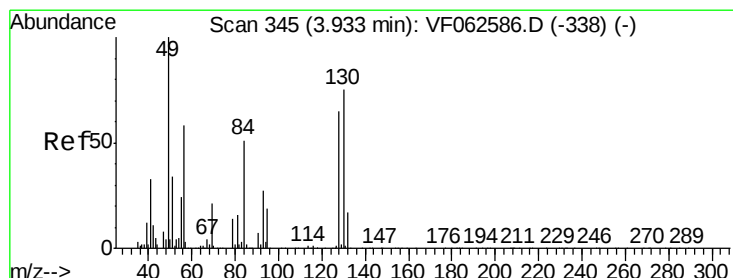
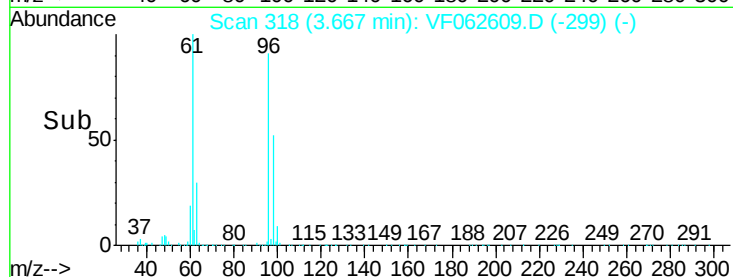
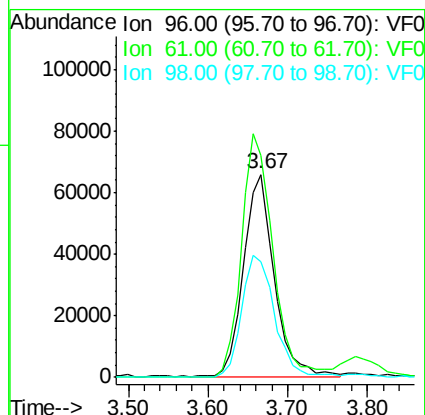
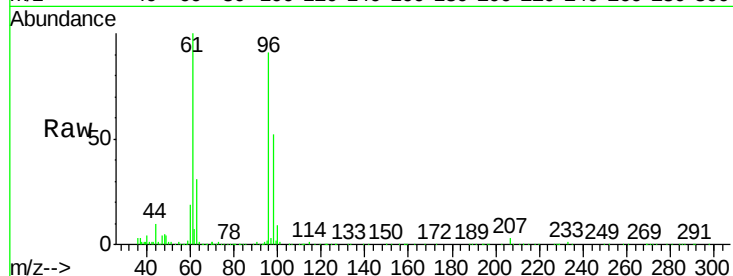


#27

cis-1,2-Dichloroethene
 Concen: 20.349 ug/l
 RT: 3.67 min Scan# 318
 Delta R.T. -0.01 min
 Lab File: VF062609.D
 Acq: 15 May 2019 15:24

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0515SBS01

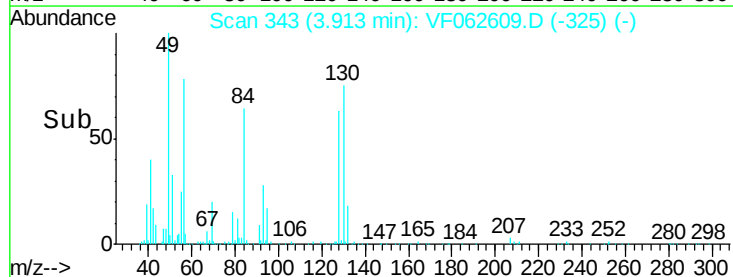
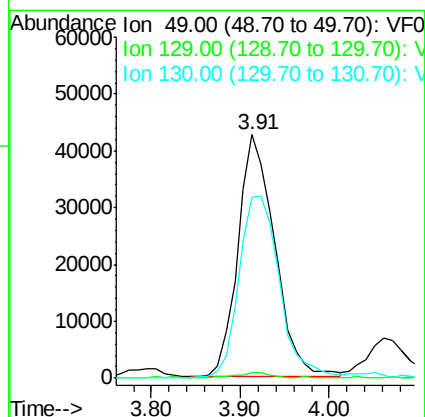
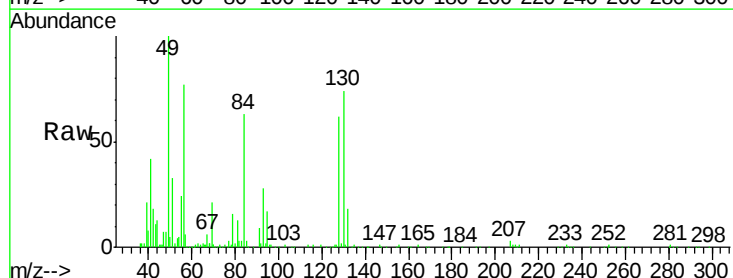
Tot Ion	Ratio	Lower	Upper
96	100		
61	109.4	0.0	251.4
98	57.2	0.0	129.8

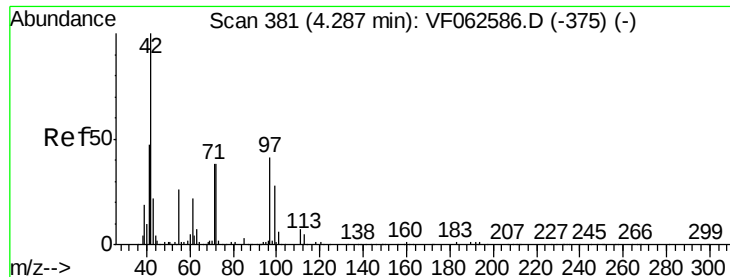


#28

Bromochloromethane
 Concen: 19.949 ug/l
 RT: 3.91 min Scan# 343
 Delta R.T. -0.02 min
 Lab File: VF062609.D
 Acq: 15 May 2019 15:24

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.0
130	74.1	59.7	89.5

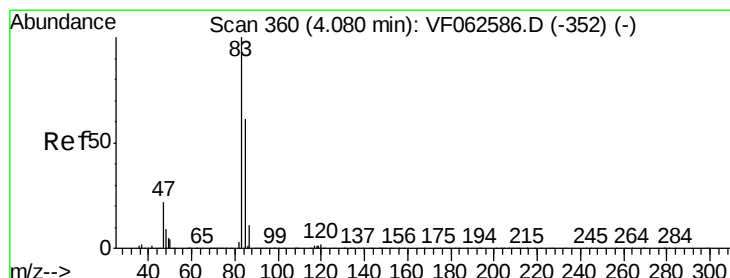
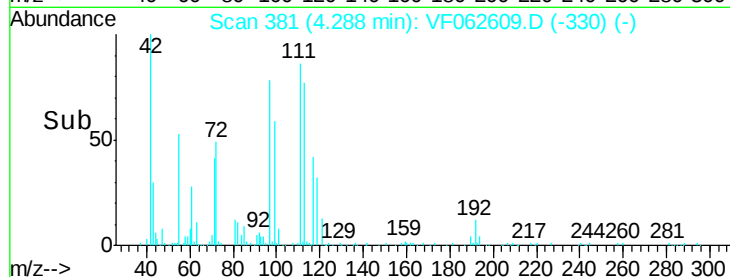
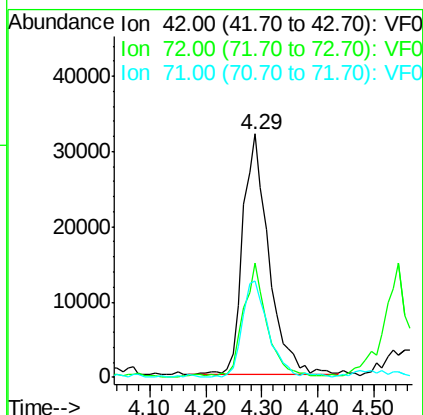
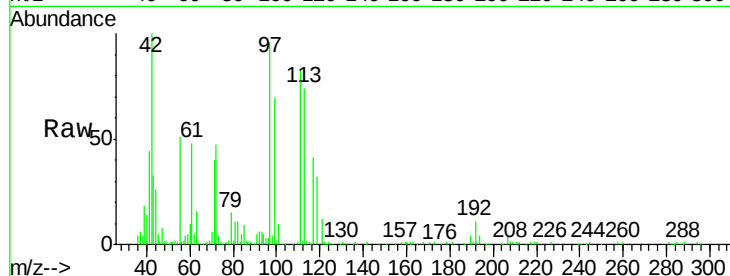




#29
Tetrahydrofuran
Concen: 106.883 ug/l
RT: 4.29 min Scan# 381
Delta R.T. 0.00 min
Lab File: VF062609.D
Acq: 15 May 2019 15:24

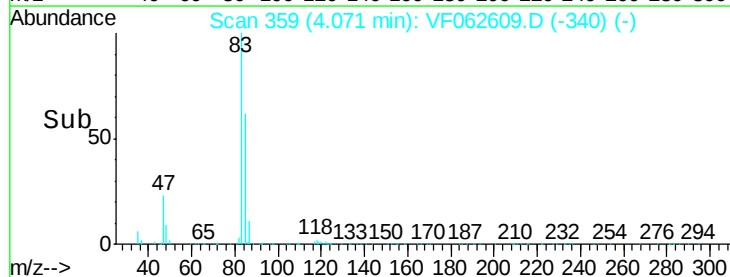
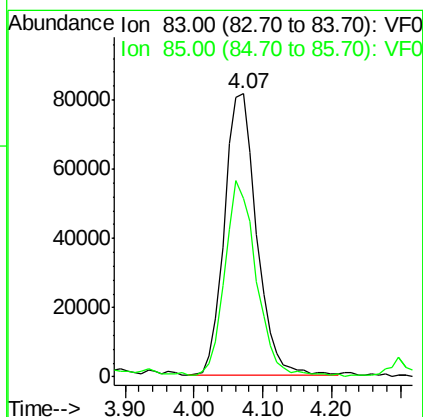
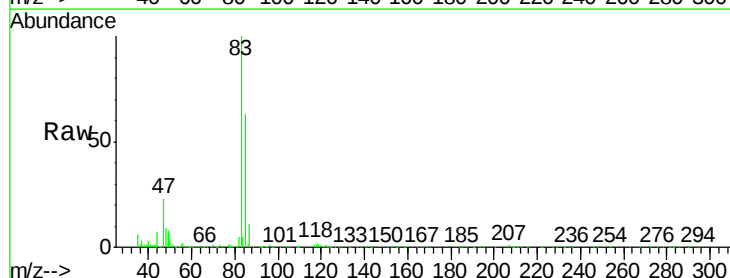
Instrument :
MSVOA_F
ClientSampleId :
VF0515SBS01

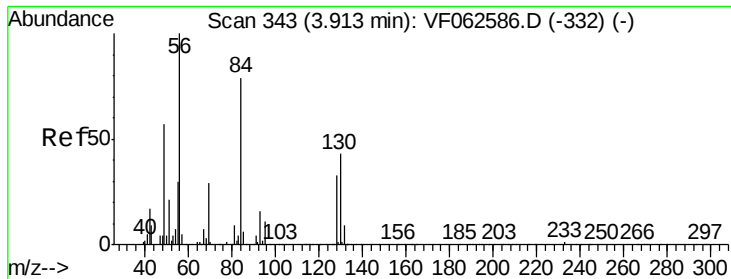
Tot Ion: 42 Resp: 103408
Ion Ratio Lower Upper
42 100
72 42.4 34.0 51.0
71 39.8 32.8 49.2



#30
Chloroform
Concen: 20.074 ug/l
RT: 4.07 min Scan# 359
Delta R.T. -0.01 min
Lab File: VF062609.D
Acq: 15 May 2019 15:24

Tgt Ion: 83 Resp: 261522
Ion Ratio Lower Upper
83 100
85 63.2 48.7 73.1

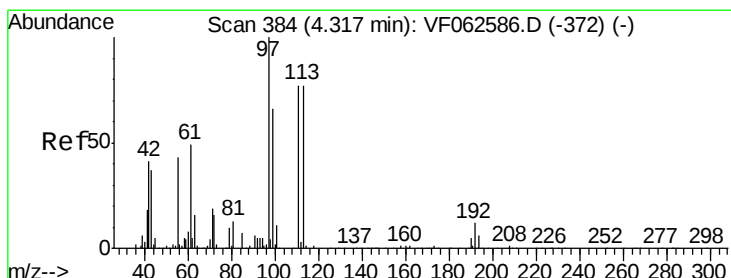
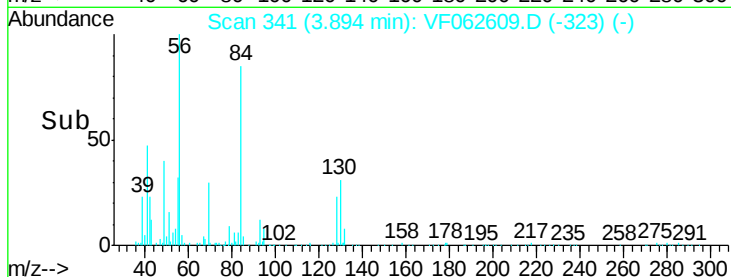
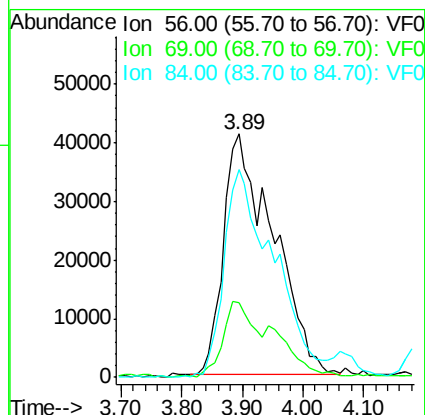
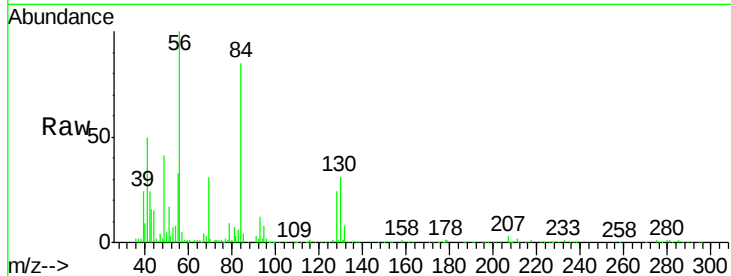




#31
Cyclohexane
Concen: 20.829 ug/l
RT: 3.89 min Scan# 341
Delta R.T. -0.02 min
Lab File: VF062609.D
Acq: 15 May 2019 15:24

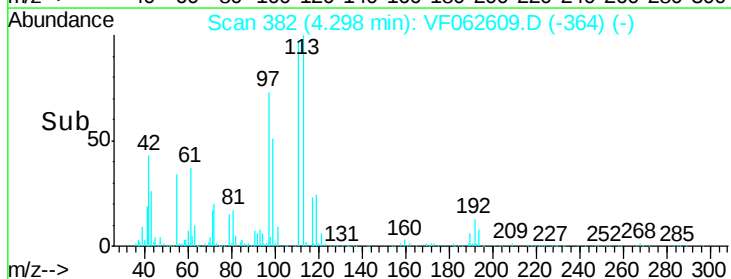
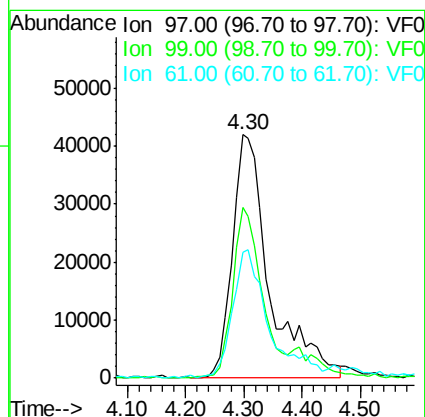
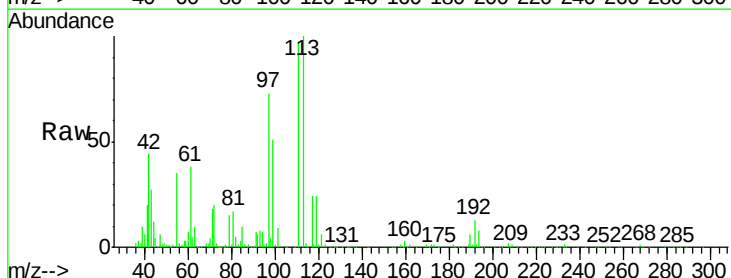
Instrument :
MSVOA_F
ClientSampleId :
VF0515SBS01

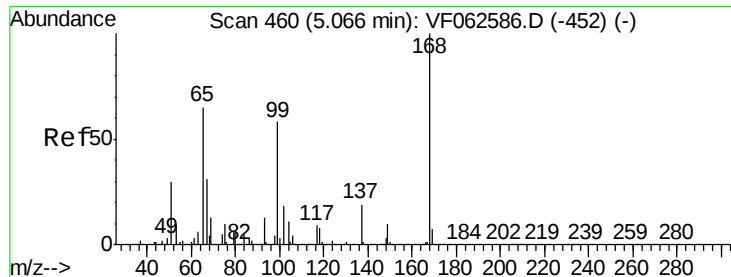
Tot Ion: 56 Resp: 235696
Ion Ratio Lower Upper
56 100
69 30.6 22.9 34.3
84 85.1 63.4 95.2



#32
1,1,1-Trichloroethane
Concen: 21.261 ug/l
RT: 4.30 min Scan# 382
Delta R.T. -0.02 min
Lab File: VF062609.D
Acq: 15 May 2019 15:24

Tgt Ion: 97 Resp: 186700
Ion Ratio Lower Upper
97 100
99 70.1 53.4 80.0
61 51.5 38.9 58.3





#33

1,2-Dichloroethane-d4

Concen: 43.587 ug/l

RT: 5.05 min Scan# 458

Delta R.T. -0.02 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

Instrument :

MSVOA_F

ClientSampleId :

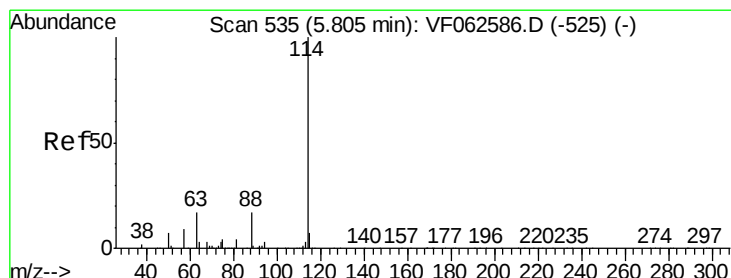
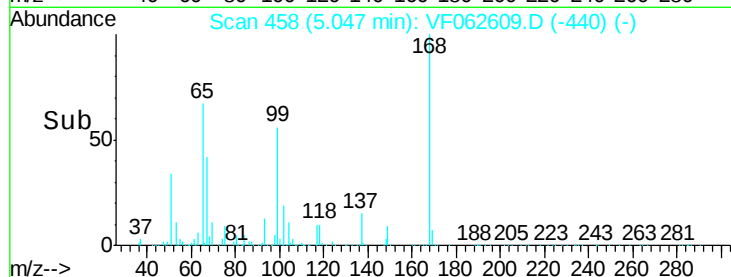
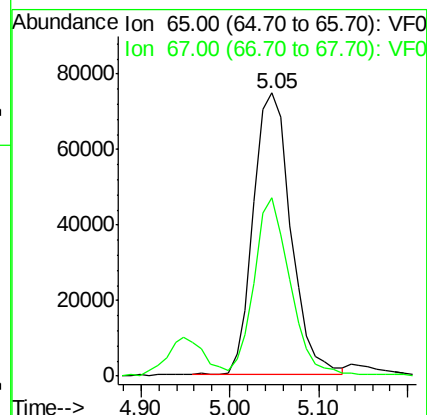
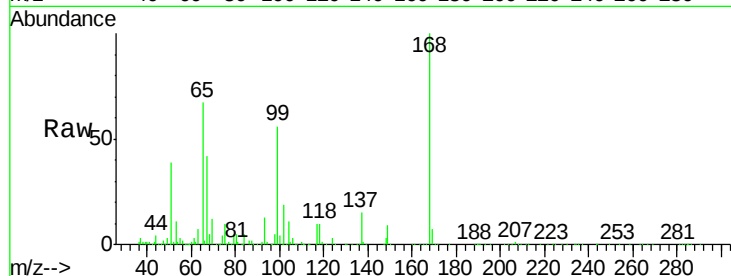
VF0515SBS01

Tot Ion: 65 Resp: 217226

Ion Ratio Lower Upper

65 100

67 63.2 0.0 116.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.79 min Scan# 533

Delta R.T. -0.02 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

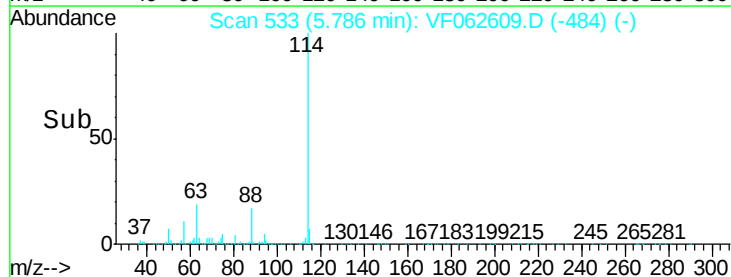
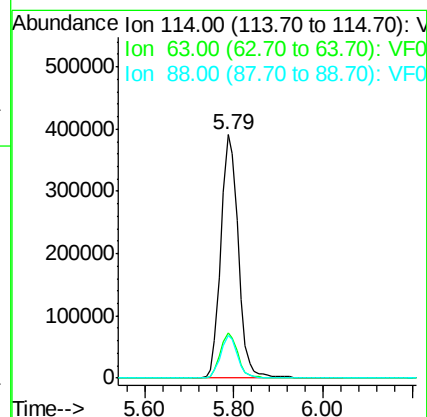
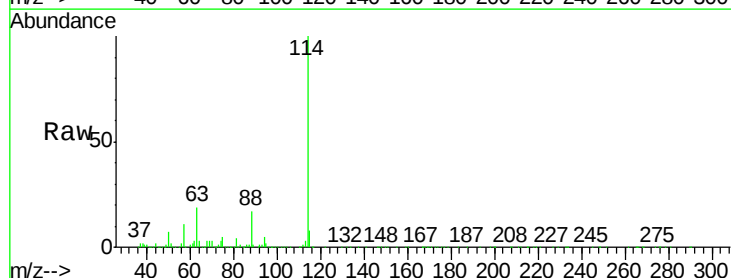
Tgt Ion: 114 Resp: 1062947

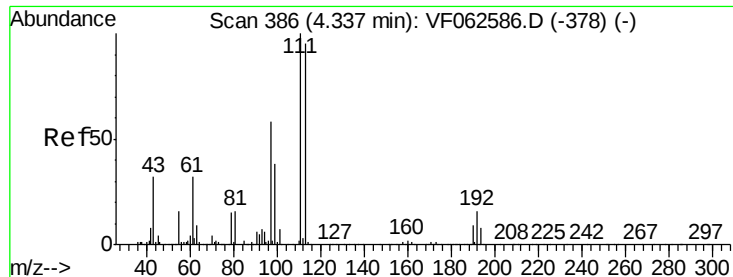
Ion Ratio Lower Upper

114 100

63 18.7 0.0 34.6

88 17.4 0.0 33.6

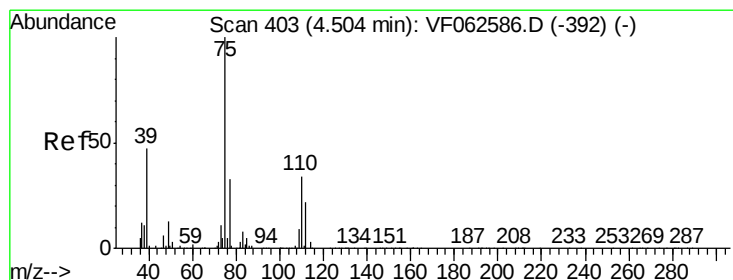
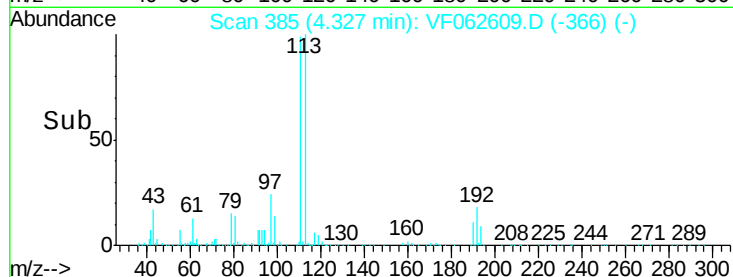
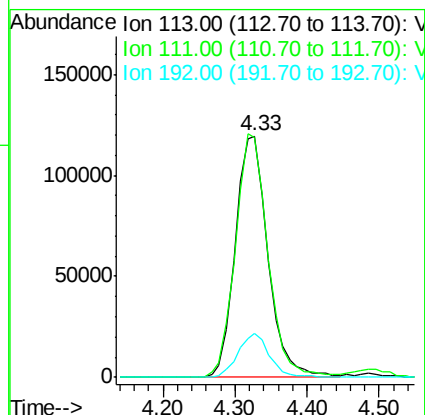
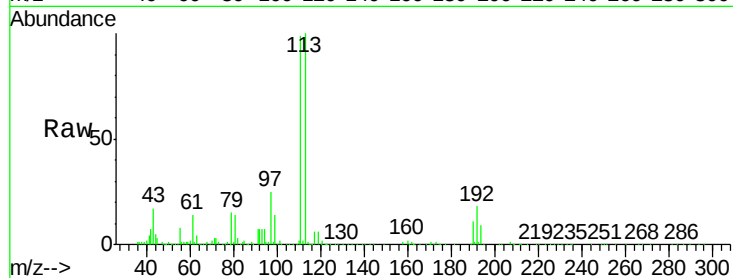




#35
 Dibromofluoromethane
 Concen: 47.942 ug/l
 RT: 4.33 min Scan# 385
 Delta R.T. -0.01 min
 Lab File: VF062609.D
 Acq: 15 May 2019 15:24

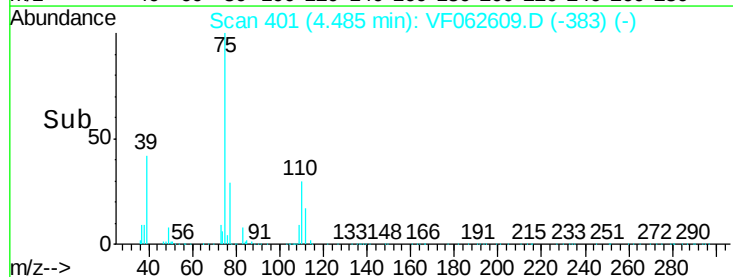
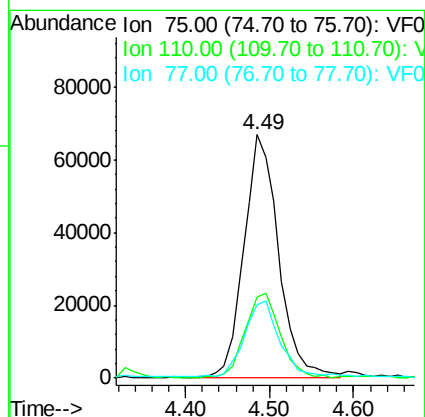
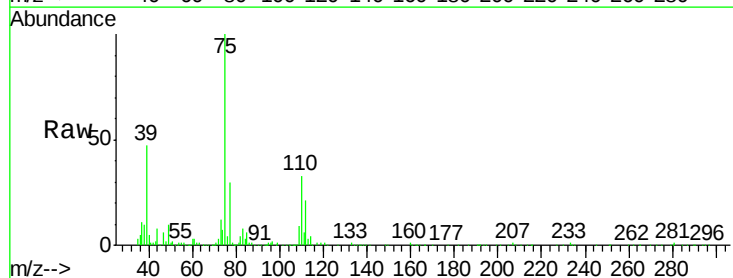
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0515SBS01

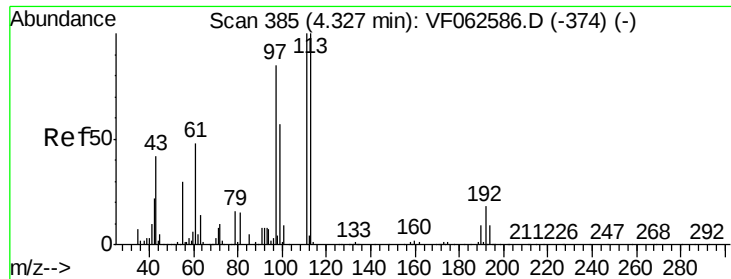
Tot Ion:113 Resp: 379282
 Ion Ratio Lower Upper
 113 100
 111 99.0 83.9 125.9
 192 18.2 13.7 20.5



#36
 1,1-Dichloropropene
 Concen: 20.855 ug/l
 RT: 4.49 min Scan# 401
 Delta R.T. -0.02 min
 Lab File: VF062609.D
 Acq: 15 May 2019 15:24

Tgt Ion: 75 Resp: 191813
 Ion Ratio Lower Upper
 75 100
 110 33.0 17.3 51.7
 77 30.1 26.4 39.6





#37

Ethyl Acetate

Concen: 23.130 ug/l

RT: 4.32 min Scan# 384

Delta R.T. -0.01 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

Instrument :

MSVOA_F

ClientSampleId :

VF0515SBS01

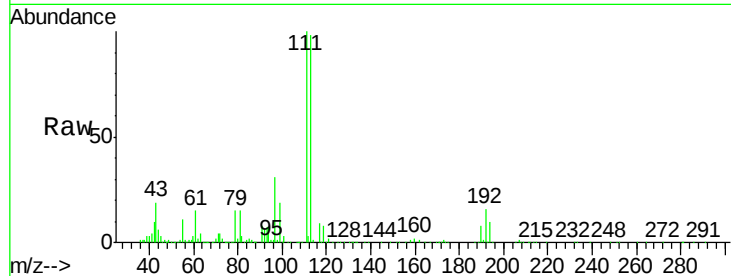
Tot Ion: 43 Resp: 87422

Ion Ratio Lower Upper

43 100

61 76.7 88.6 132.8#

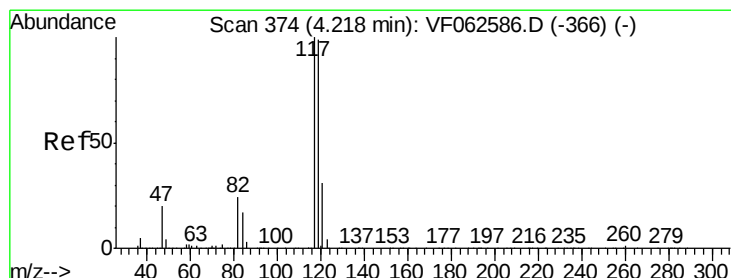
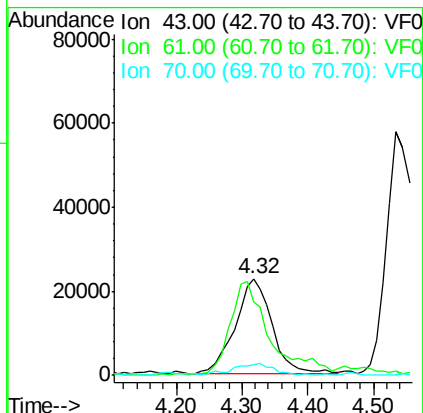
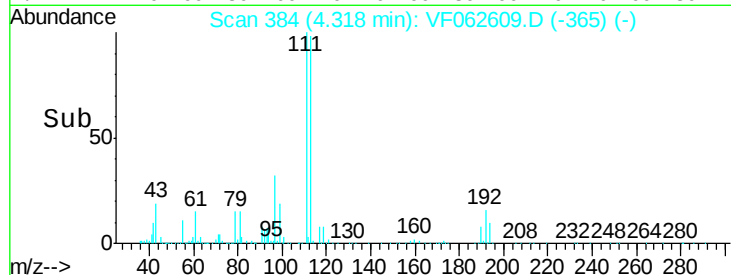
70 10.6 8.3 12.5



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: 22.167 ug/l

RT: 4.20 min Scan# 372

Delta R.T. -0.02 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

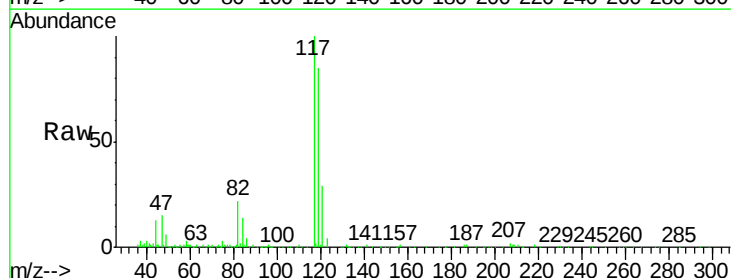
Tgt Ion: 117 Resp: 167253

Ion Ratio Lower Upper

117 100

119 85.5 79.0 118.6

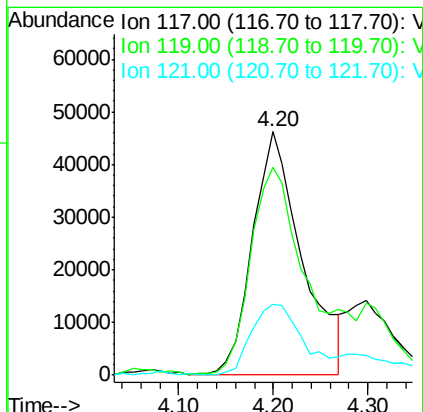
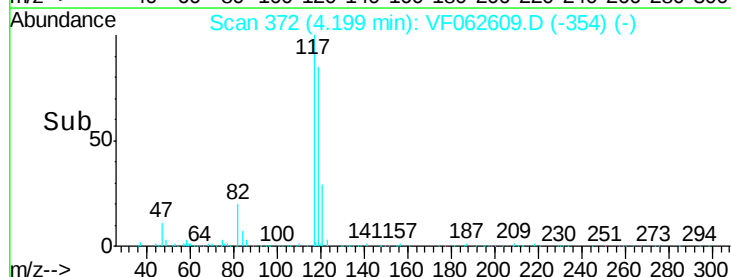
121 29.0 25.0 37.6

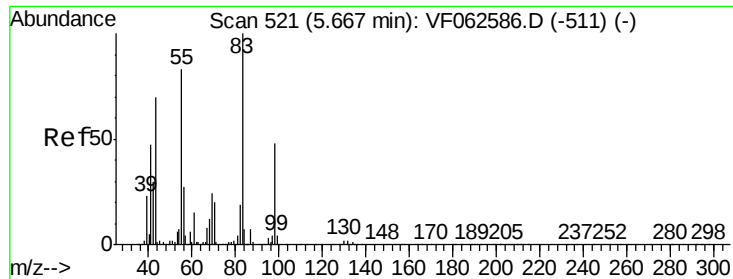


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

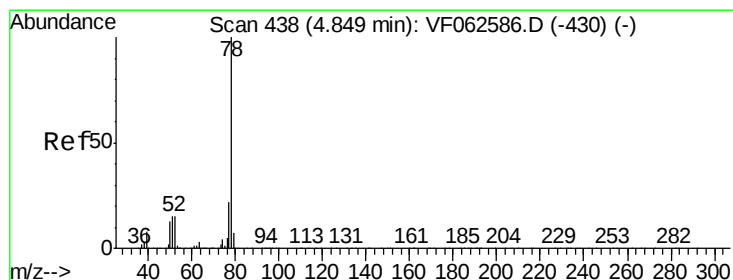
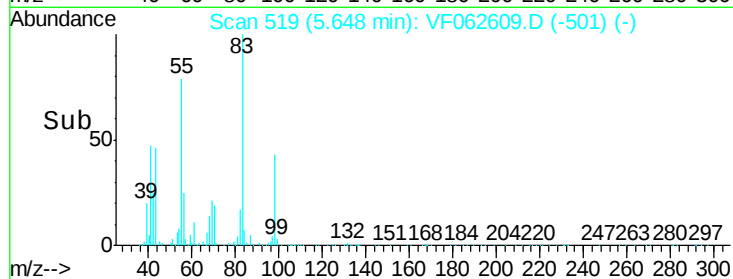
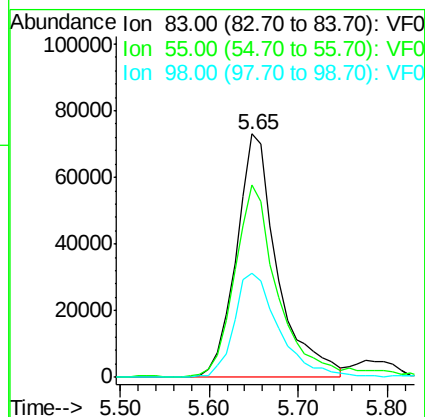
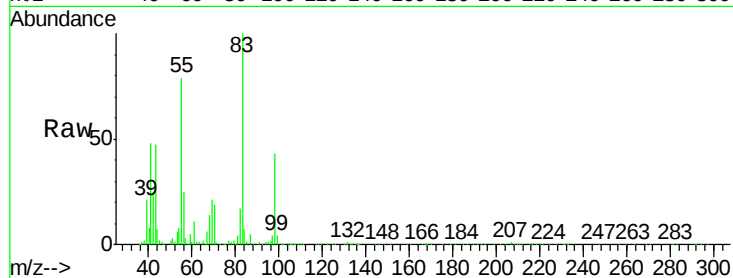




#39
Methvlcvclohexane
Concen: 21.689 ug/l
RT: 5.65 min Scan# 519
Delta R.T. -0.02 min
Lab File: VF062609.D
Acq: 15 May 2019 15:24

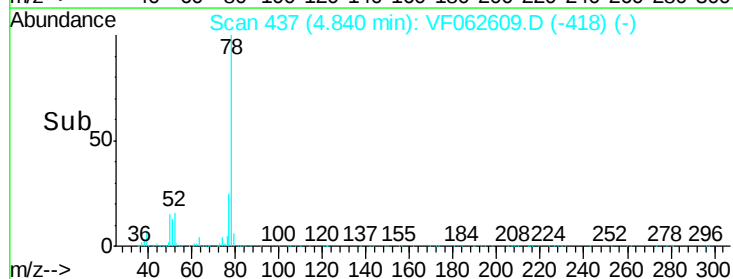
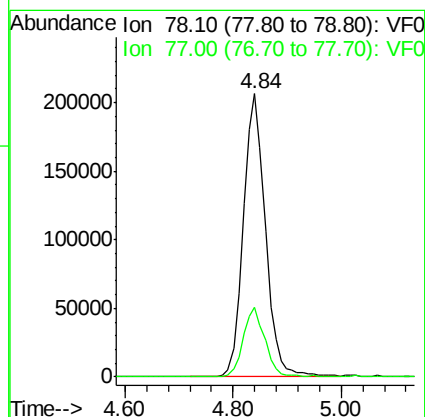
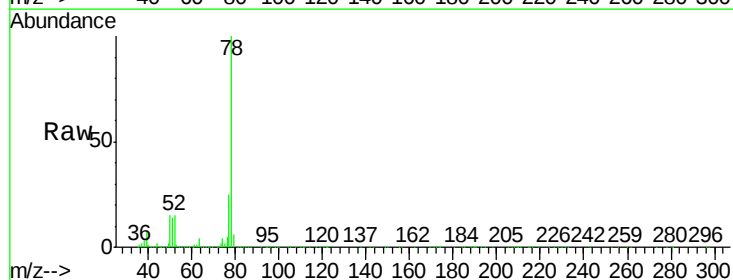
Instrument :
MSVOA_F
ClientSampleId :
VF0515SBS01

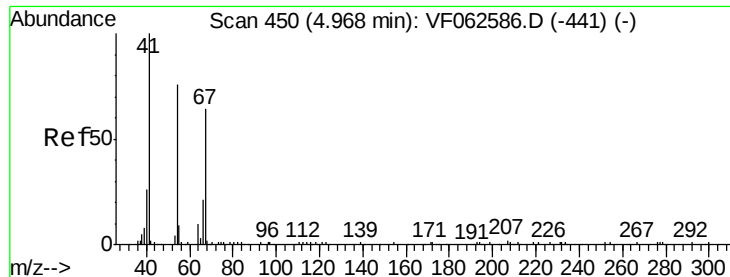
Tot Ion	83	Resp	233565
Ion Ratio	Lower	Upper	
83	100		
55	79.1	66.6	100.0
98	42.9	38.3	57.5



#40
Benzene
Concen: 22.319 ug/l
RT: 4.84 min Scan# 437
Delta R.T. -0.01 min
Lab File: VF062609.D
Acq: 15 May 2019 15:24

Tgt Ion	78	Resp	584004
Ion Ratio	Lower	Upper	
78	100		
77	24.7	17.7	26.5





#41

Methacrylonitrile

Concen: 21.230 ug/l

RT: 4.95 min Scan# 448

Delta R.T. -0.02 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

Instrument :

MSVOA_F

ClientSampleId :

VF0515SBS01

Tot Ion: 41 Resp: 45439

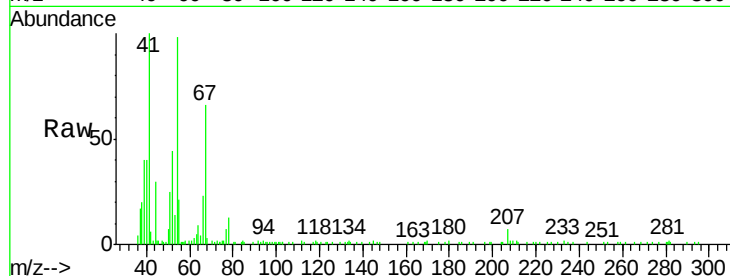
Ion Ratio Lower Upper

41 100

39 40.3 40.8 61.2#

67 66.3 50.2 75.2

52 44.2 36.8 55.2

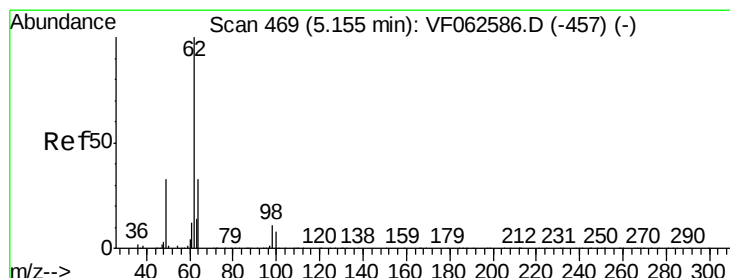
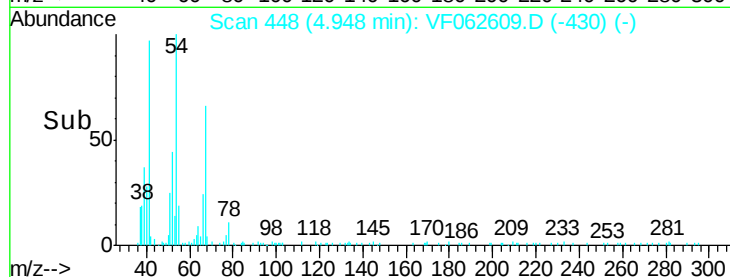
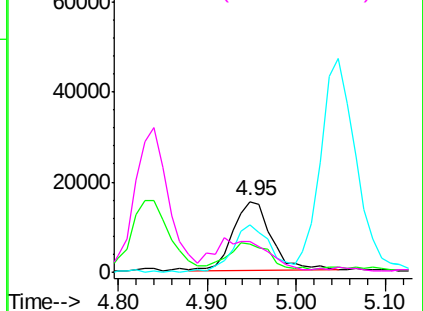


Abundance Ion 41.00 (40.70 to 41.70): VF0

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: 21.844 ug/l

RT: 5.14 min Scan# 467

Delta R.T. -0.02 min

Lab File: VF062609.D

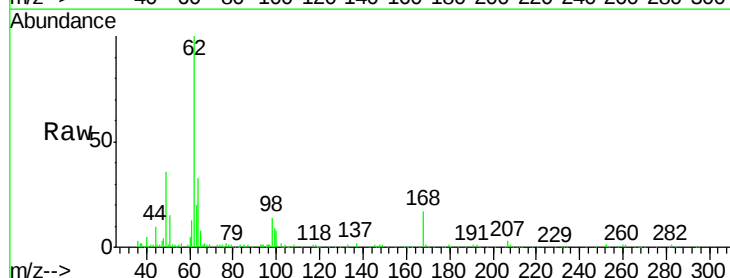
Acq: 15 May 2019 15:24

Tgt Ion: 62 Resp: 121293

Ion Ratio Lower Upper

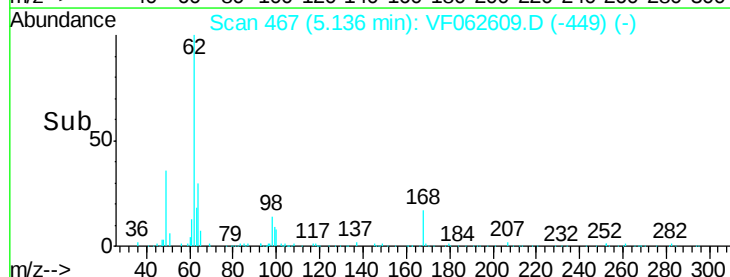
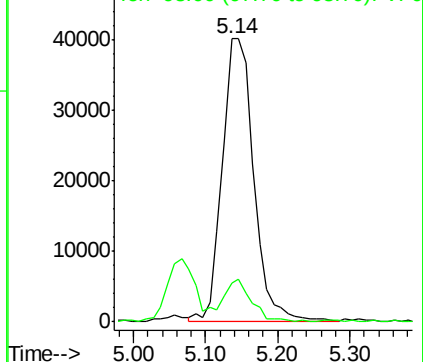
62 100

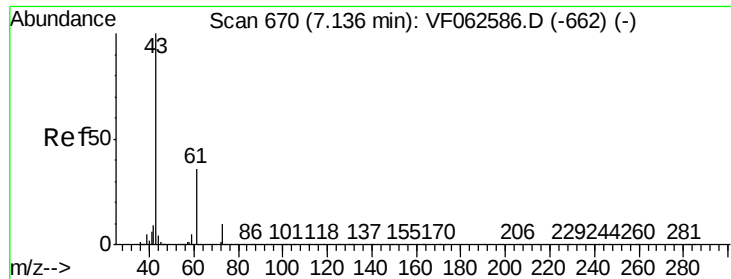
98 13.9 0.0 22.2



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



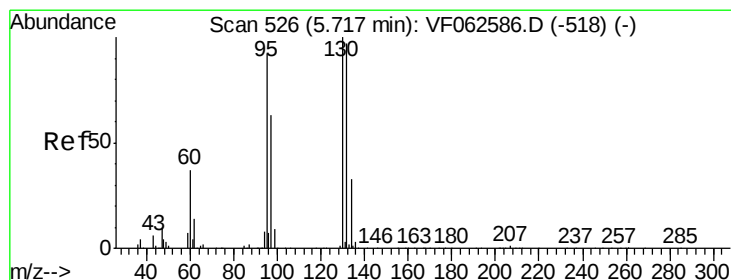
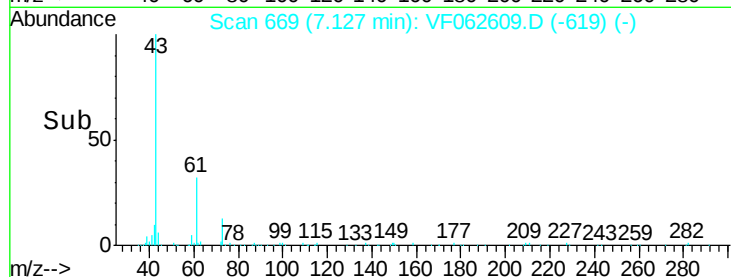
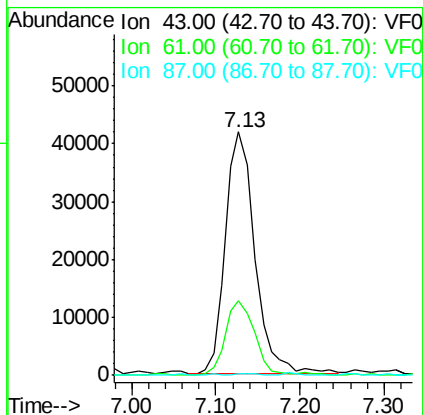
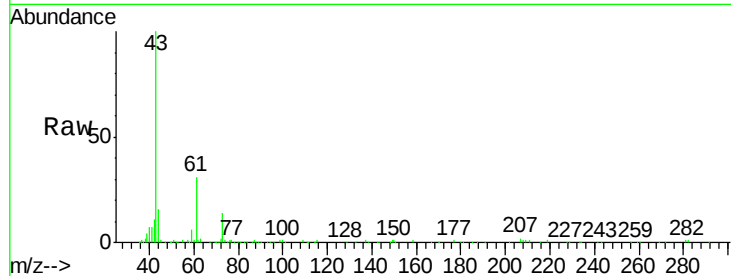


#43

Isopropyl Acetate
 Concen: 22.978 ug/l
 RT: 7.13 min Scan# 669
 Delta R.T. -0.01 min
 Lab File: VF062609.D
 Acq: 15 May 2019 15:24

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0515SBS01

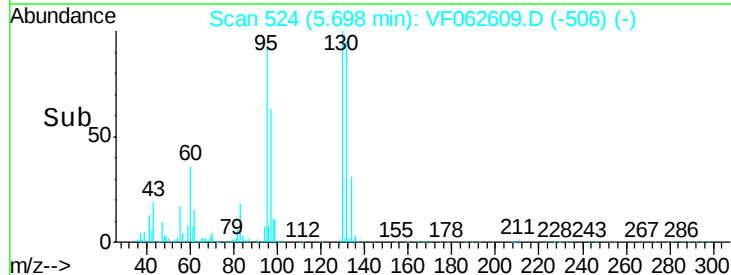
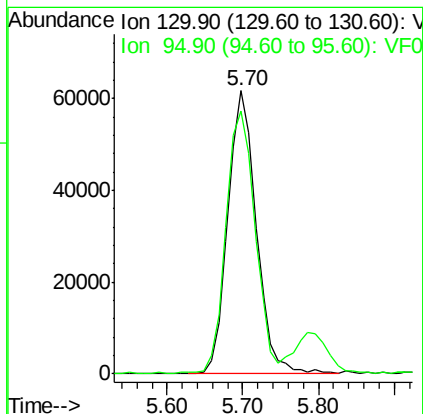
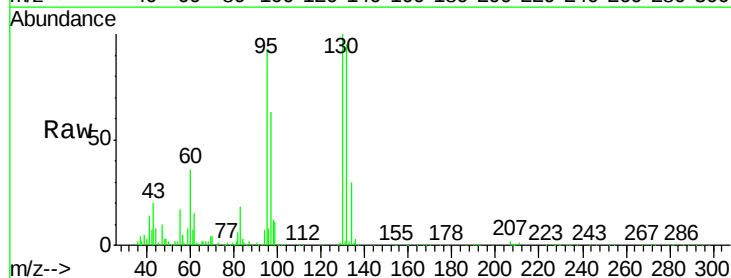
Tot Ion: 43 Resp: 102773
 Ion Ratio Lower Upper
 43 100
 61 30.8 28.5 42.7
 87 0.5 0.4 0.6

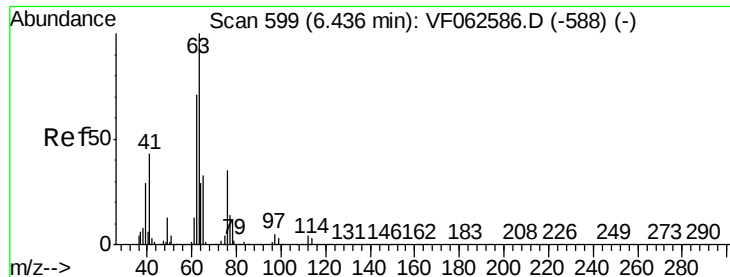


#44

Trichloroethene
 Concen: 22.740 ug/l
 RT: 5.70 min Scan# 524
 Delta R.T. -0.02 min
 Lab File: VF062609.D
 Acq: 15 May 2019 15:24

Tgt Ion: 130 Resp: 160692
 Ion Ratio Lower Upper
 130 100
 95 92.7 0.0 185.0





#45

1,2-Dichloropropane

Concen: 22.542 ug/l

RT: 6.42 min Scan# 597

Delta R.T. -0.02 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

Instrument :

MSVOA_F

ClientSampleId :

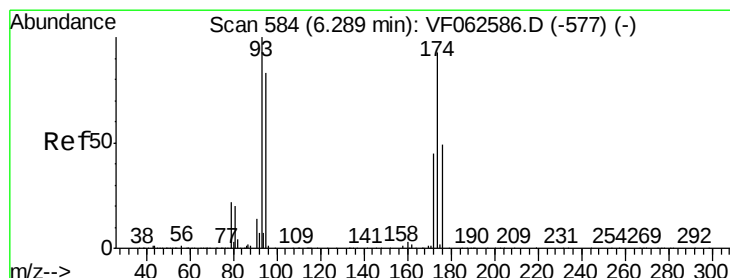
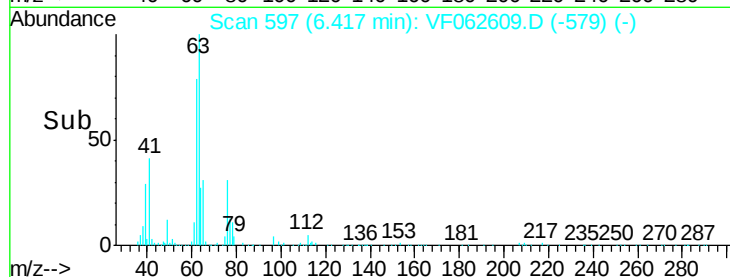
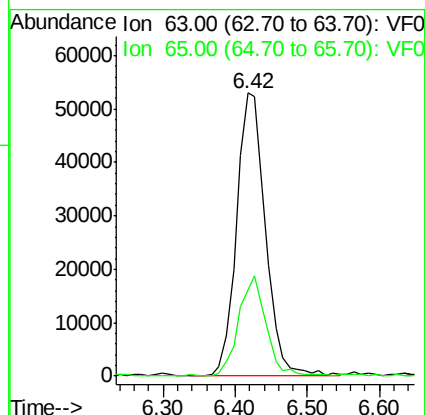
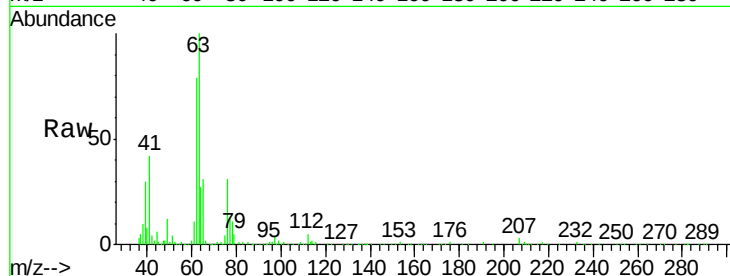
VF0515SBS01

Tot Ion: 63 Resp: 148468

Ion Ratio Lower Upper

63 100

65 30.7 26.2 39.4



#46

Dibromomethane

Concen: 22.498 ug/l

RT: 6.27 min Scan# 582

Delta R.T. -0.02 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

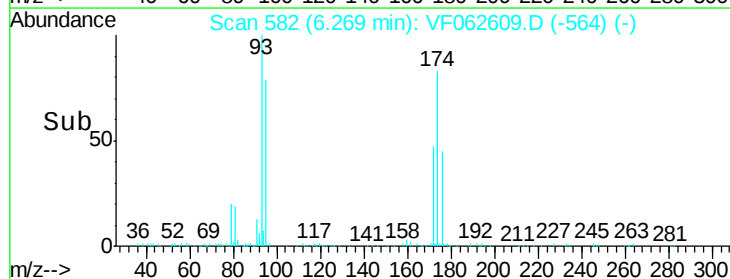
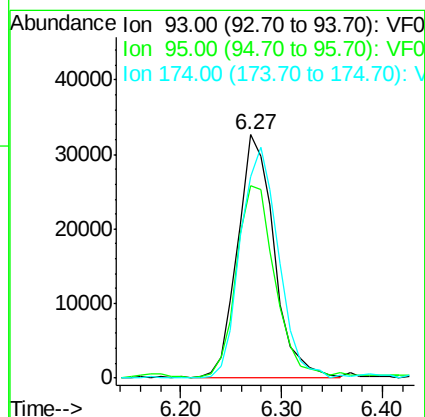
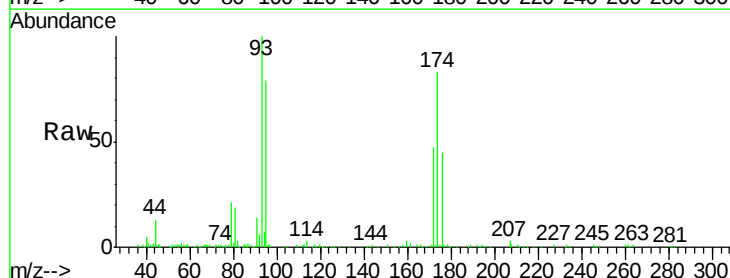
Tgt Ion: 93 Resp: 82847

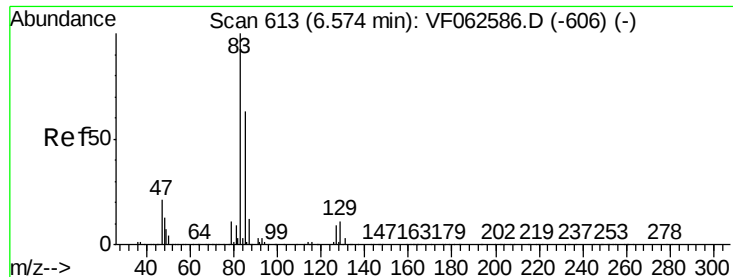
Ion Ratio Lower Upper

93 100

95 79.2 66.9 100.3

174 83.0 74.6 112.0





#47

Bromodichloromethane

Concen: 22.405 ug/l

RT: 6.57 min Scan# 612

Delta R.T. -0.01 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

Instrument :

MSVOA_F

ClientSampleId :

VF0515SBS01

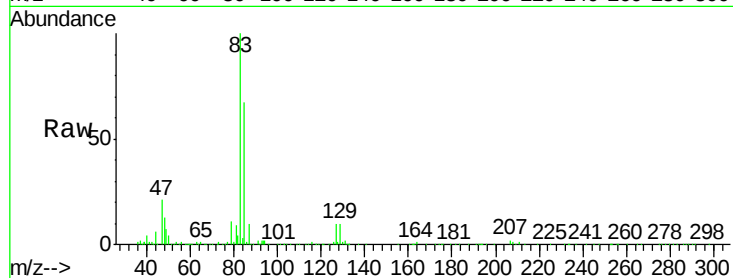
Tot Ion: 83 Resp: 177362

Ion Ratio Lower Upper

83 100

85 66.7 50.3 75.5

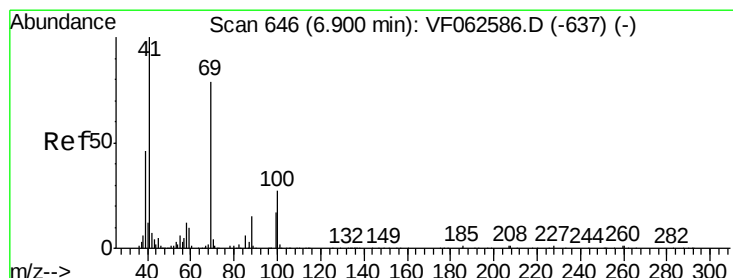
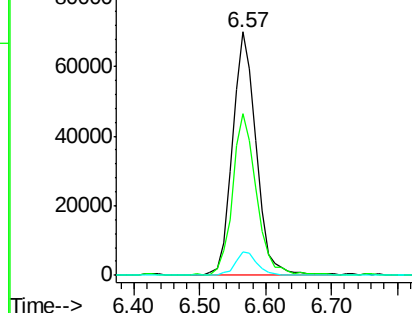
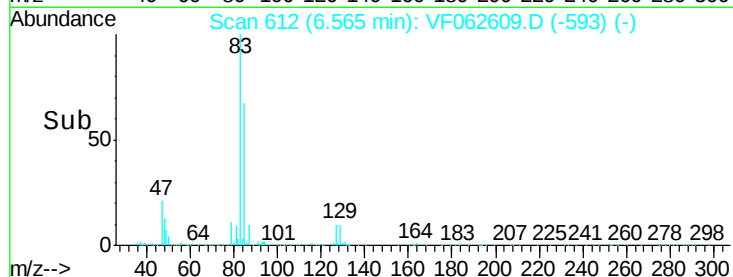
127 10.8 7.2 10.8



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 21.135 ug/l

RT: 6.89 min Scan# 645

Delta R.T. -0.01 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

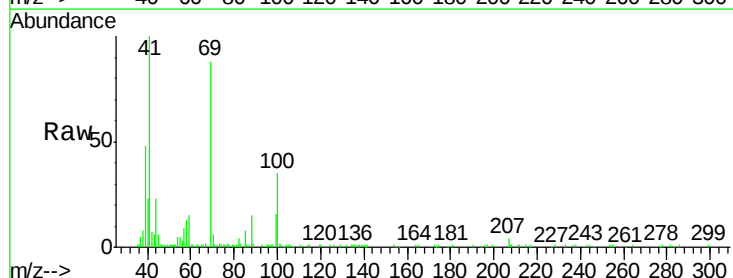
Tgt Ion: 41 Resp: 51742

Ion Ratio Lower Upper

41 100

69 87.7 63.0 94.6

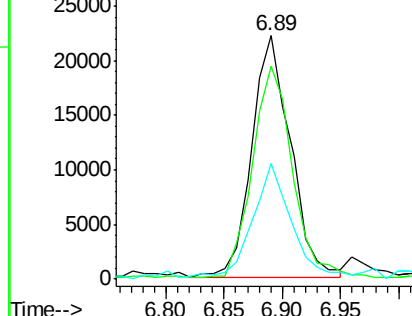
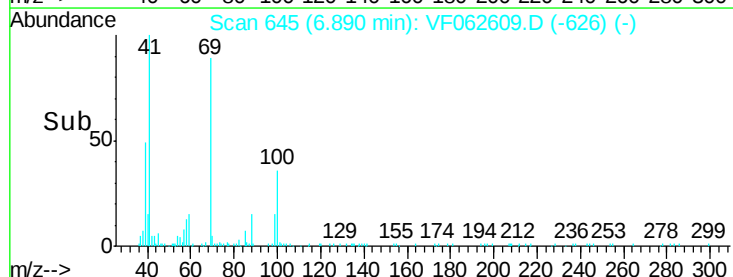
39 47.5 37.6 56.4

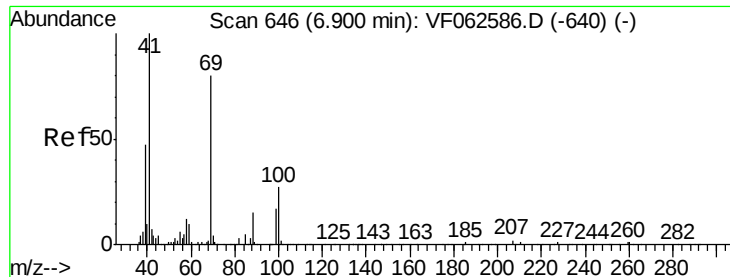


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 375.433 ug/l

RT: 6.88 min Scan# 644

Delta R.T. -0.02 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

Instrument :

MSVOA_F

ClientSampleId :

VF0515SBS01

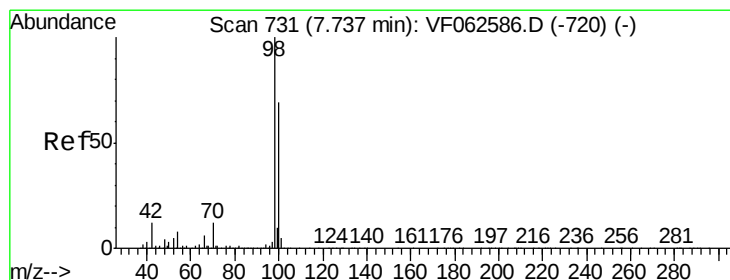
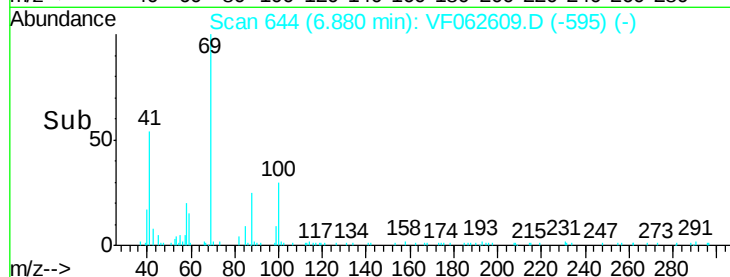
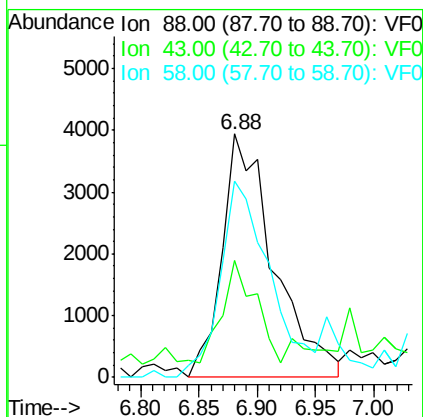
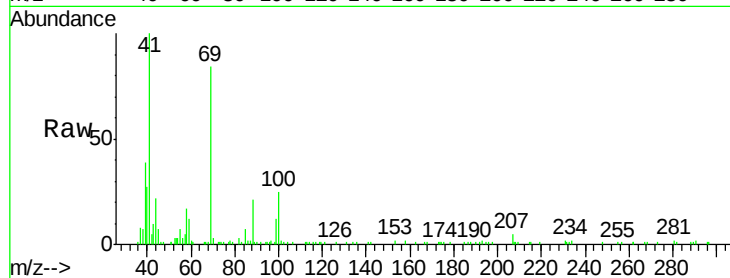
Tot Ion: 88 Resp: 12112

Ion Ratio Lower Upper

88 100

43 48.0 28.8 43.2#

58 80.8 60.6 90.8



#50

Toluene-d8

Concen: 46.351 ug/l

RT: 7.72 min Scan# 729

Delta R.T. -0.02 min

Lab File: VF062609.D

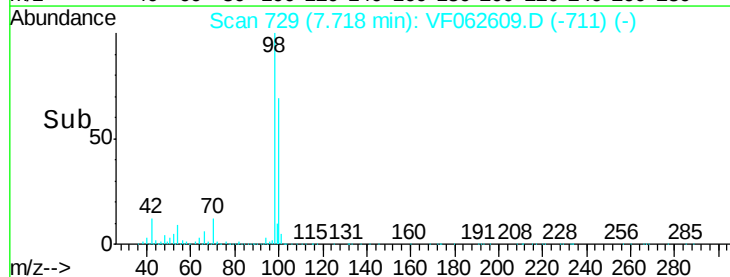
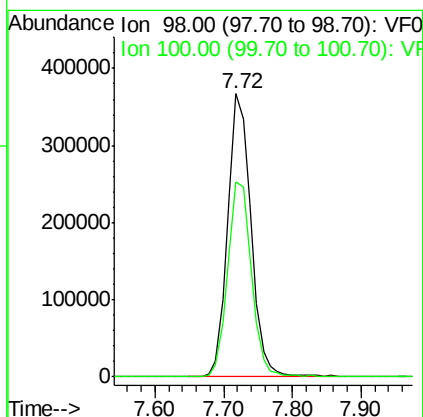
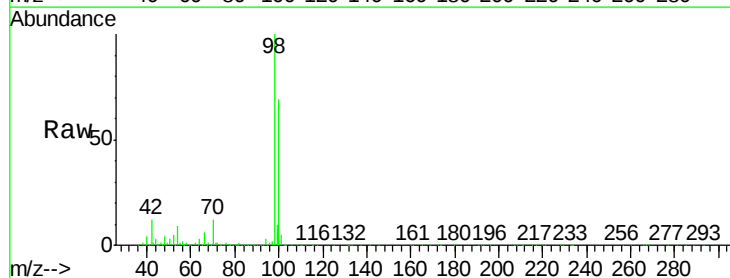
Acq: 15 May 2019 15:24

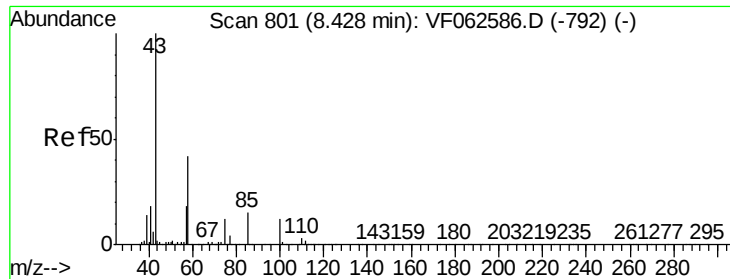
Tgt Ion: 98 Resp: 864097

Ion Ratio Lower Upper

98 100

100 68.7 55.4 83.0





#51

4-Methyl-2-Pentanone

Concen: 109.494 ug/l

RT: 8.41 min Scan# 799

Delta R.T. -0.02 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

Instrument :

MSVOA_F

ClientSampleId :

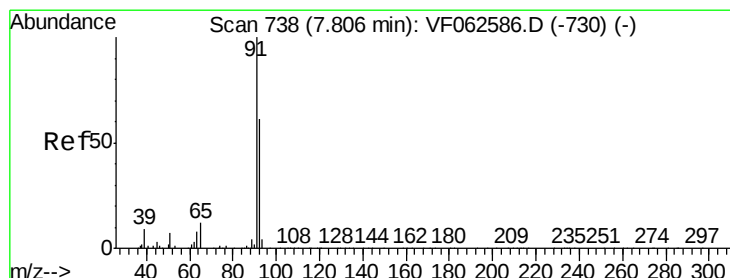
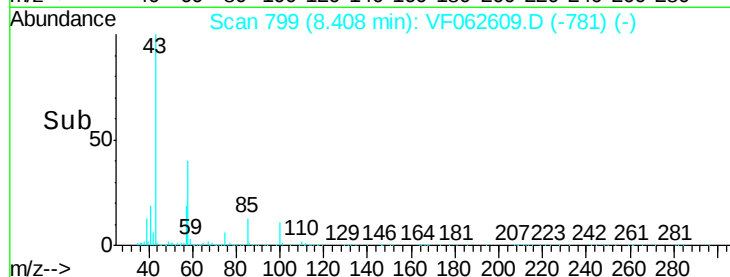
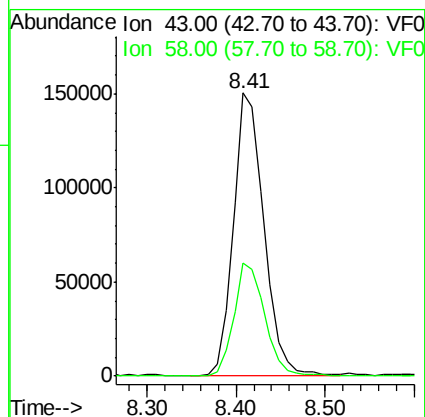
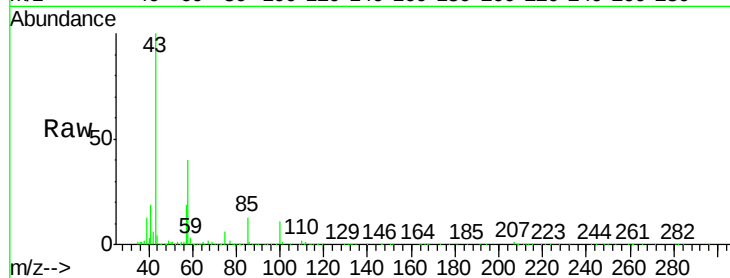
VF0515SBSD01

Tot Ion: 43 Resp: 358835

Ion Ratio Lower Upper

43 100

58 40.1 33.6 50.4



#52

Toluene

Concen: 22.587 ug/l

RT: 7.79 min Scan# 736

Delta R.T. -0.02 min

Lab File: VF062609.D

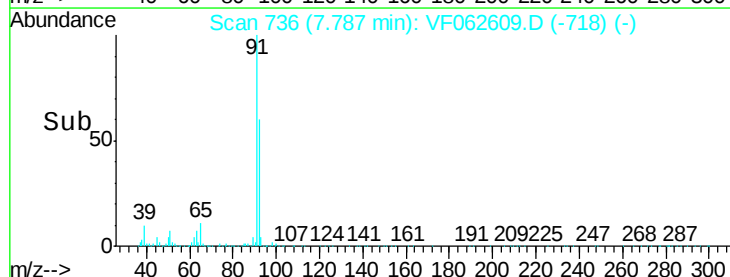
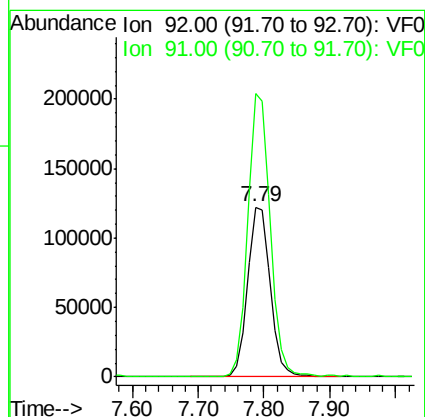
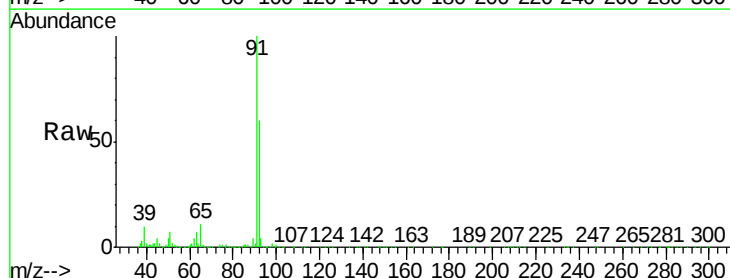
Acq: 15 May 2019 15:24

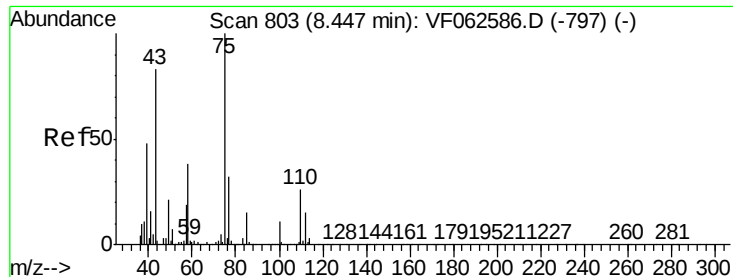
Tgt Ion: 92 Resp: 296686

Ion Ratio Lower Upper

92 100

91 166.7 131.0 196.4





#53

t-1,3-Dichloropropene

Concen: 22.737 ug/l

RT: 8.44 min Scan# 802

Delta R.T. -0.01 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

Instrument :

MSVOA_F

ClientSampleId :

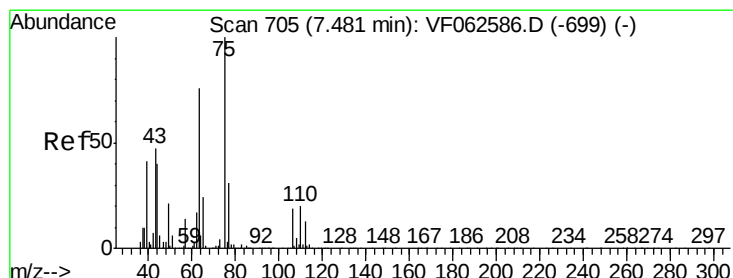
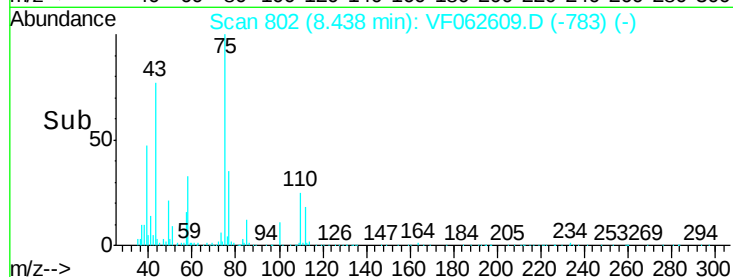
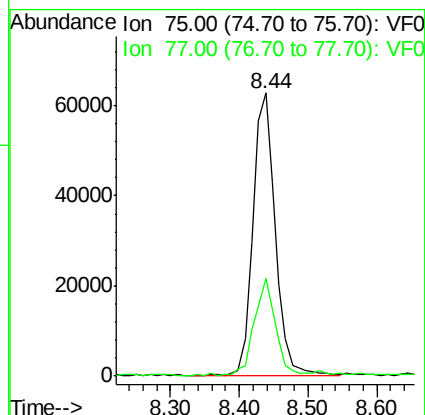
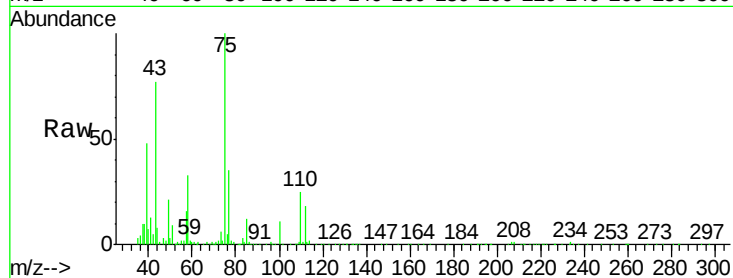
VF0515SBSD01

Tot Ion: 75 Resp: 142195

Ion Ratio Lower Upper

75 100

77 34.6 25.7 38.5



#54

cis-1,3-Dichloropropene

Concen: 22.665 ug/l

RT: 7.47 min Scan# 704

Delta R.T. -0.01 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

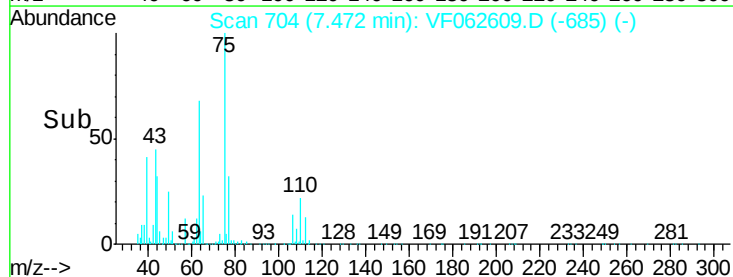
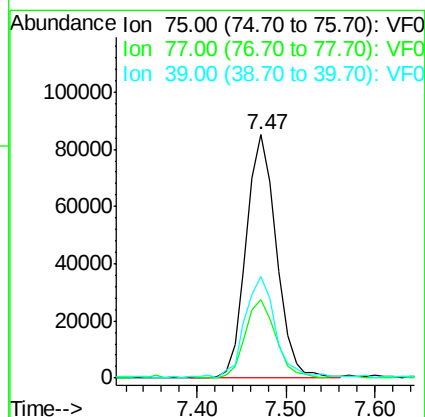
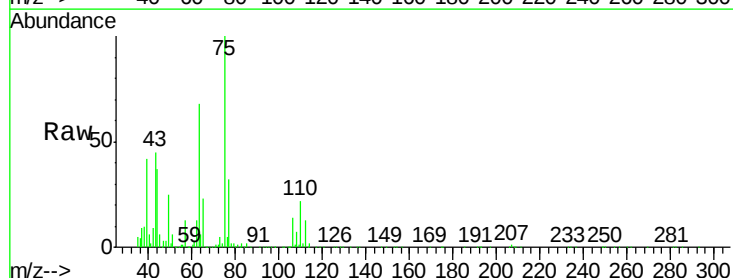
Tgt Ion: 75 Resp: 200307

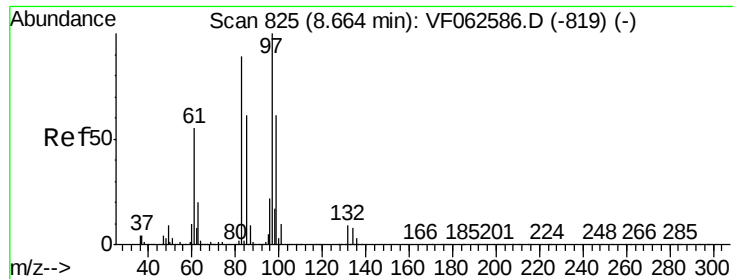
Ion Ratio Lower Upper

75 100

77 32.3 25.0 37.6

39 41.8 32.8 49.2





#55

1,1,2-Trichloroethane

Concen: 22.759 ug/l

RT: 8.64 min Scan# 823

Delta R.T. -0.02 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

Instrument :

MSVOA_F

ClientSampleId :

VF0515SBS01

Tot Ion: 97 Resp: 89509

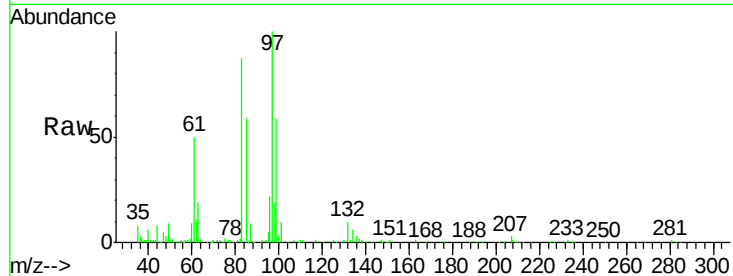
Ion Ratio Lower Upper

97 100

83 86.8 71.3 106.9

85 59.0 48.9 73.3

99 58.7 48.4 72.6

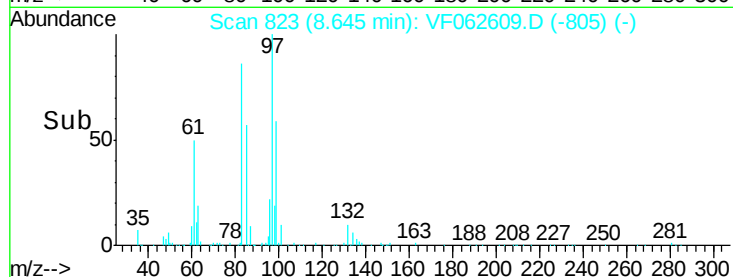
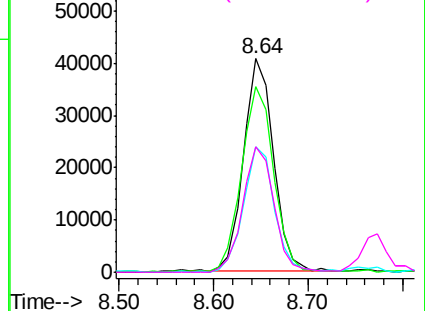


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 21.707 ug/l

RT: 8.76 min Scan# 835

Delta R.T. -0.02 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

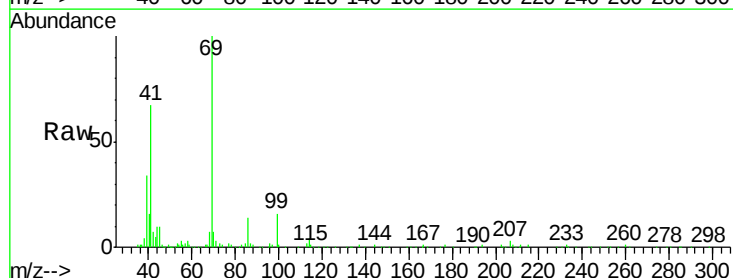
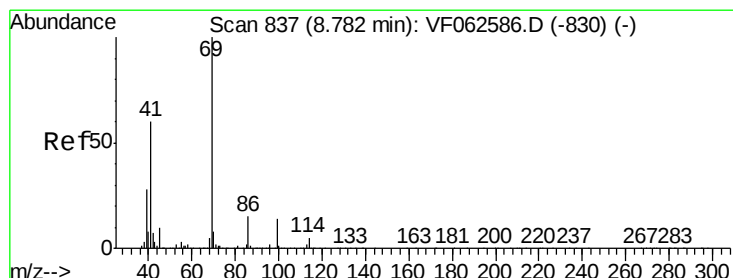
Tgt Ion: 69 Resp: 93565

Ion Ratio Lower Upper

69 100

41 67.4 48.1 72.1

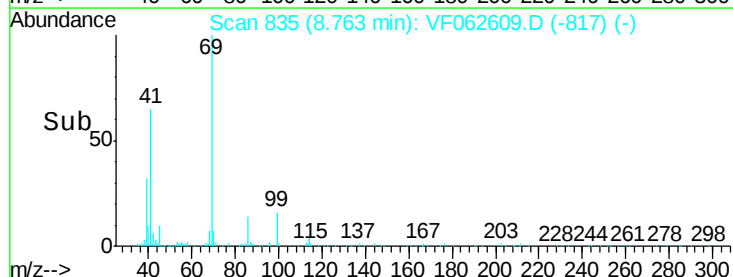
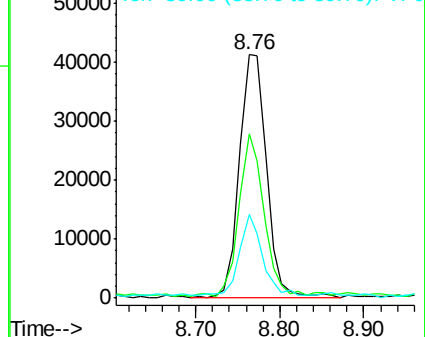
39 34.3 22.5 33.7#

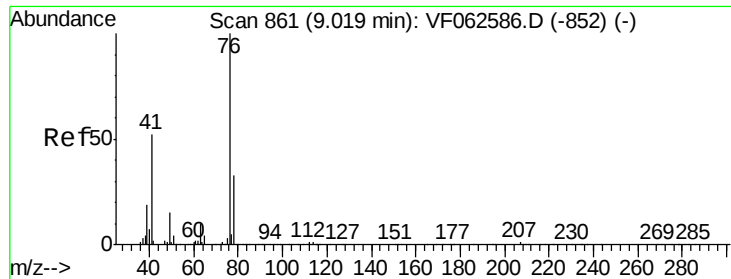


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 22.092 ug/l

RT: 9.01 min Scan# 860

Delta R.T. -0.01 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

Instrument :

MSVOA_F

ClientSampleId :

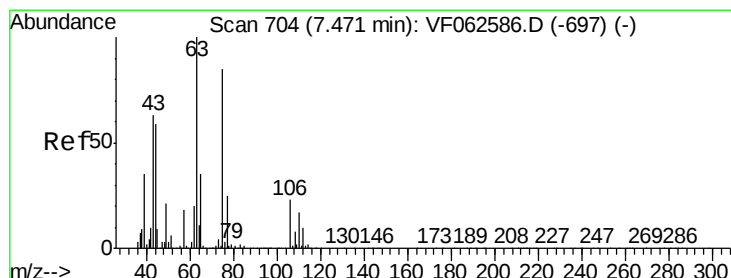
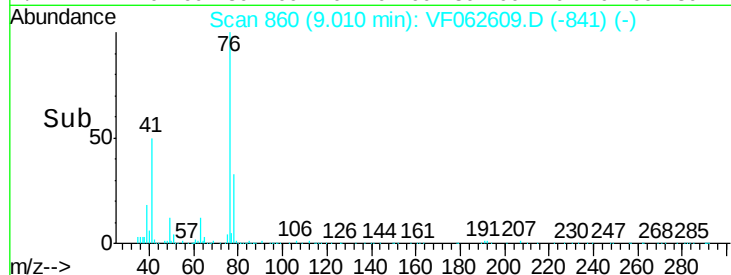
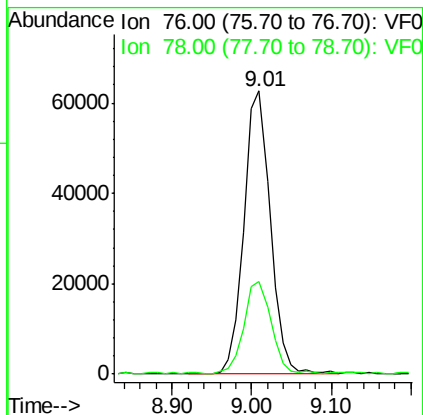
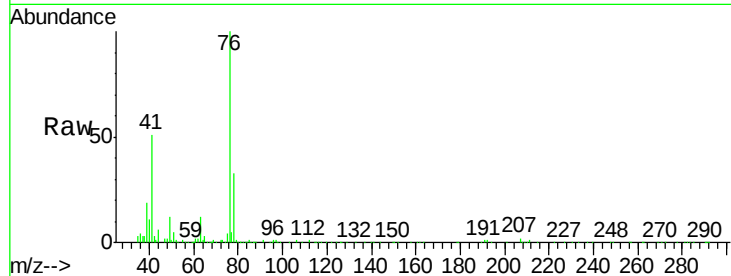
VF0515SBSD01

Tot Ion: 76 Resp: 143400

Ion Ratio Lower Upper

76 100

78 32.8 26.4 39.6



#58

2-Chloroethyl Vinyl ether

Concen: 117.021 ug/l

RT: 7.46 min Scan# 703

Delta R.T. -0.01 min

Lab File: VF062609.D

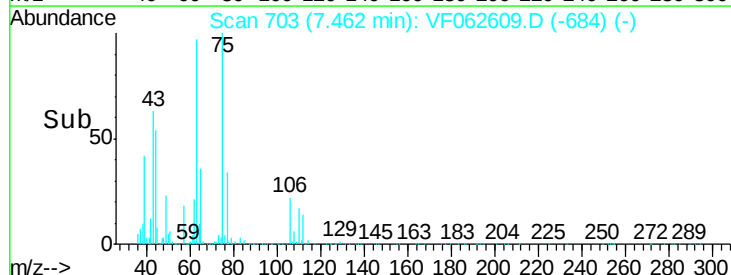
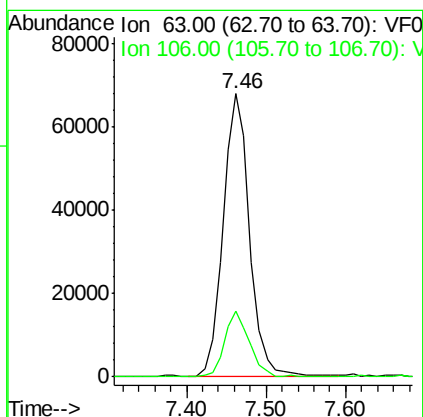
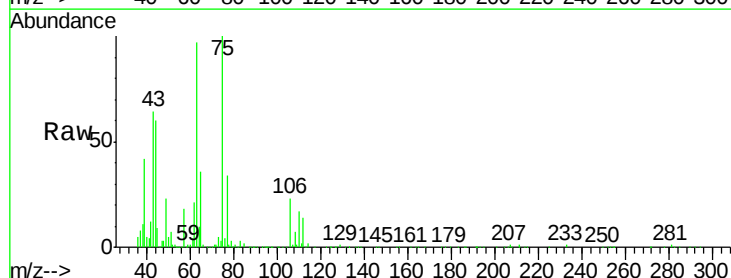
Acq: 15 May 2019 15:24

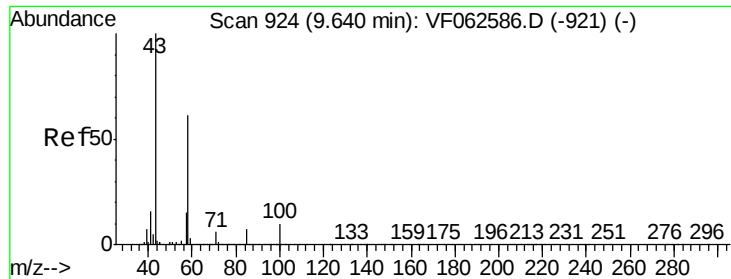
Tgt Ion: 63 Resp: 157824

Ion Ratio Lower Upper

63 100

106 23.3 18.0 27.0

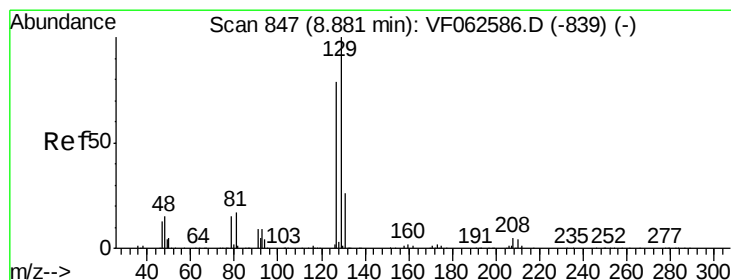
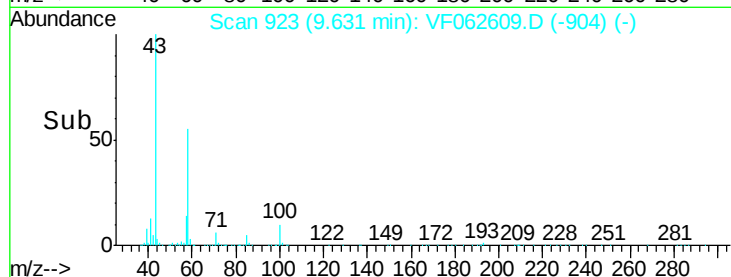
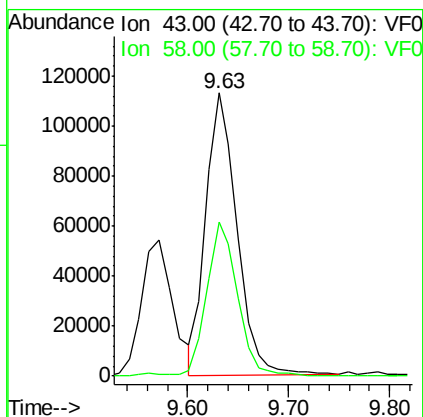
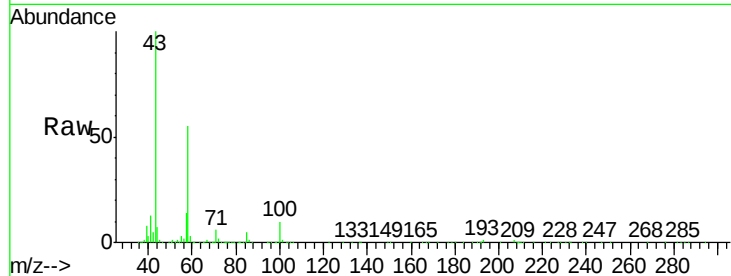




#59
2-Hexanone
Concen: 112.180 ug/l
RT: 9.63 min Scan# 923
Delta R.T. -0.01 min
Lab File: VF062609.D
Acq: 15 May 2019 15:24

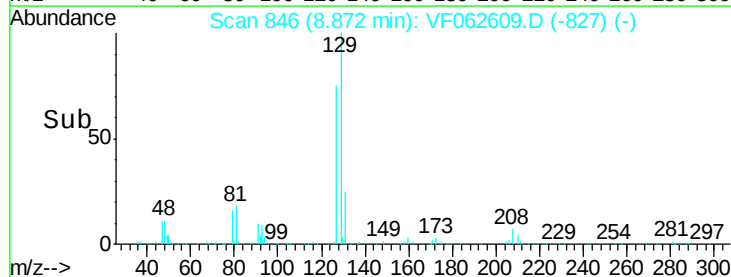
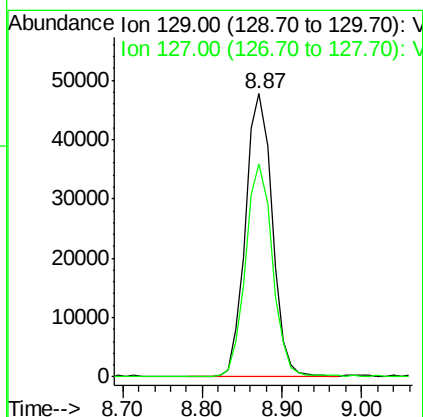
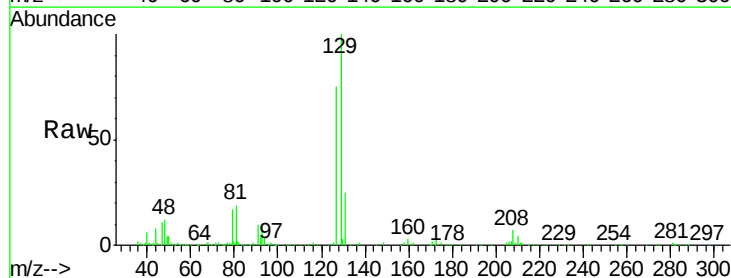
Instrument :
MSVOA_F
ClientSampleId :
VF0515SBSD01

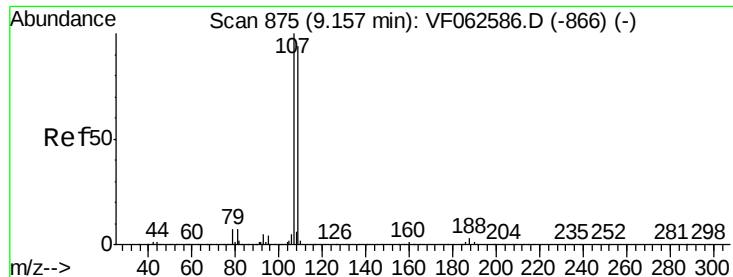
Tot Ion: 43 Resp: 242805
Ion Ratio Lower Upper
43 100
58 54.7 28.7 86.3



#60
Dibromochloromethane
Concen: 22.178 ug/l
RT: 8.87 min Scan# 846
Delta R.T. -0.01 min
Lab File: VF062609.D
Acq: 15 May 2019 15:24

Tgt Ion: 129 Resp: 110818
Ion Ratio Lower Upper
129 100
127 75.2 39.3 117.9





#61

1,2-Dibromoethane

Concen: 23.754 ug/l

RT: 9.14 min Scan# 873

Delta R.T. -0.02 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

Instrument :

MSVOA_F

ClientSampleId :

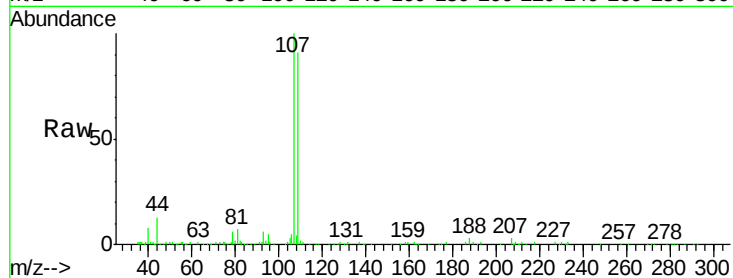
VF0515SBS01

Tot Ion:107 Resp: 93697

Ion Ratio Lower Upper

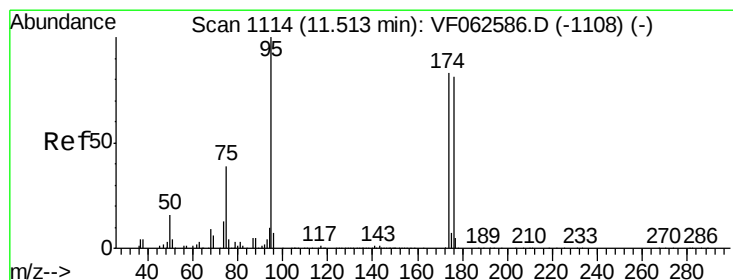
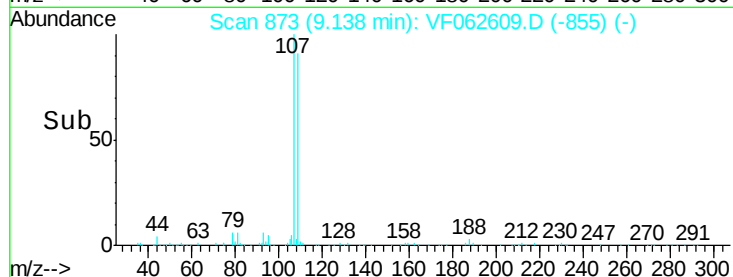
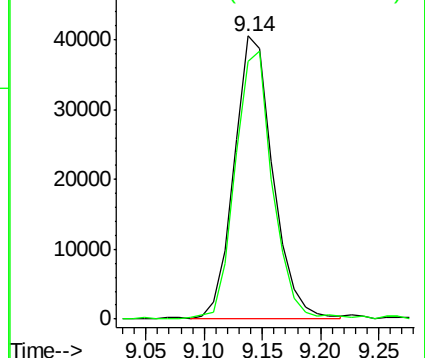
107 100

109 91.3 74.9 112.3



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 45.793 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. -0.01 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

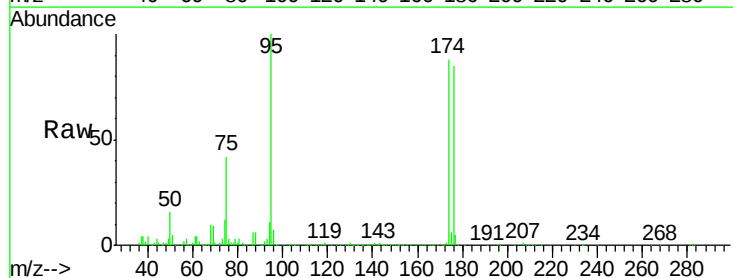
Tgt Ion: 95 Resp: 298140

Ion Ratio Lower Upper

95 100

174 88.1 0.0 166.6

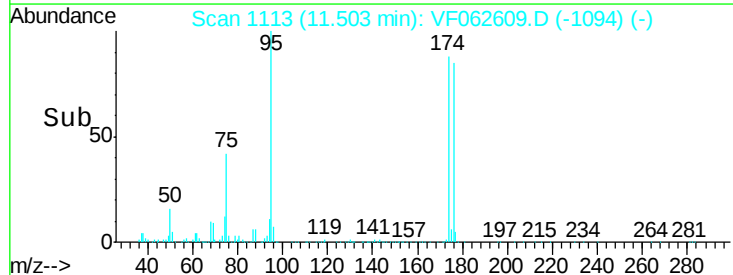
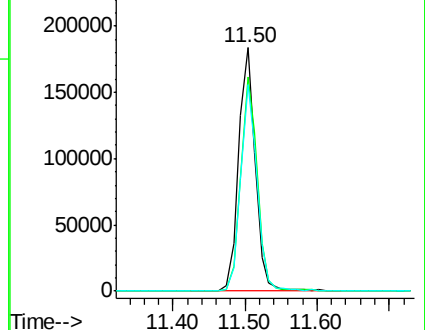
176 84.6 0.0 161.8

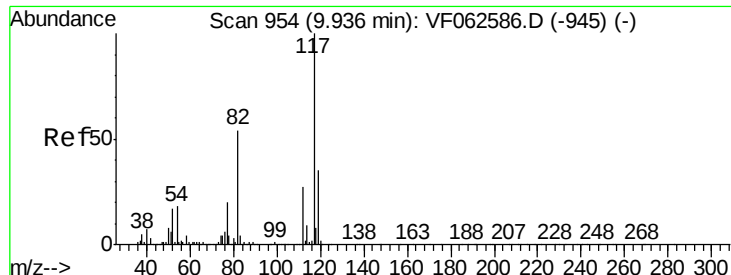


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

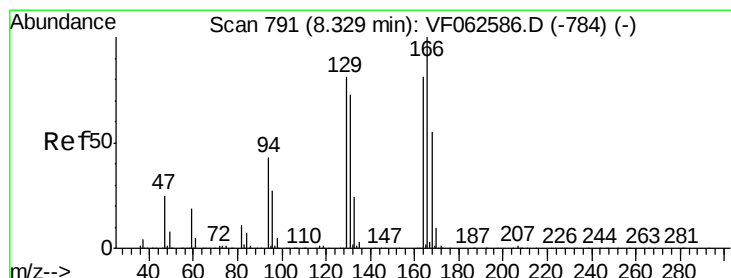
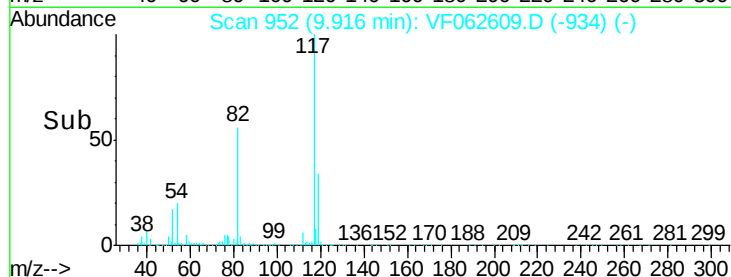
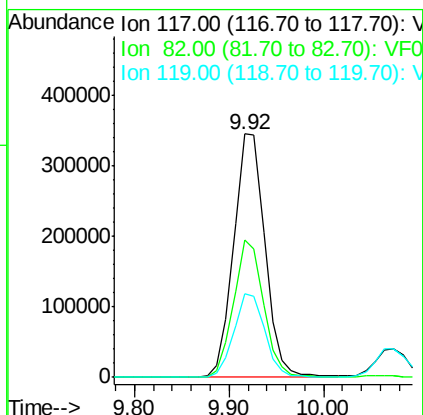
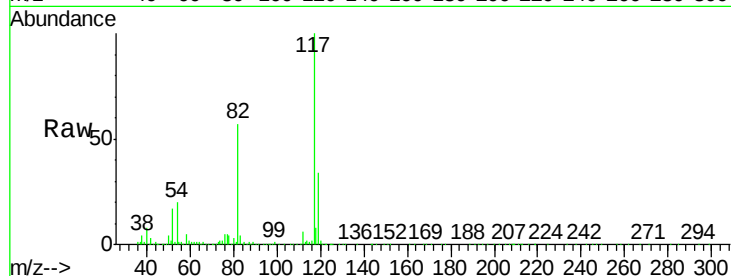




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 952
Delta R.T. -0.02 min
Lab File: VF062609.D
Acq: 15 May 2019 15:24

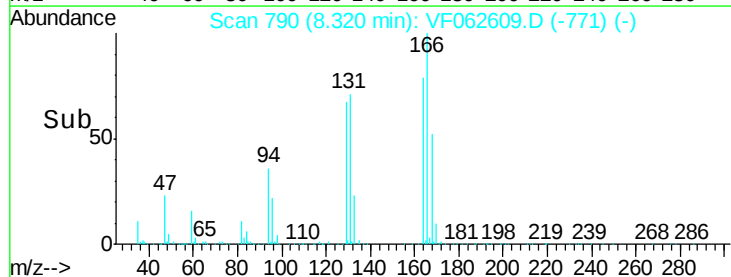
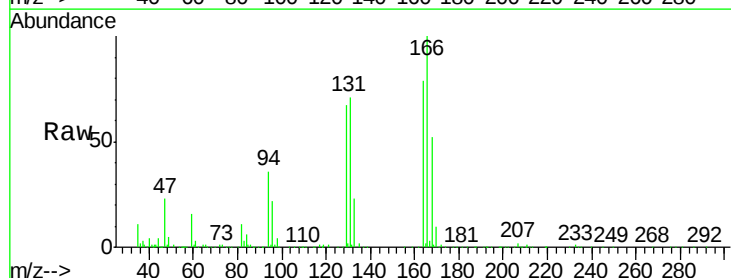
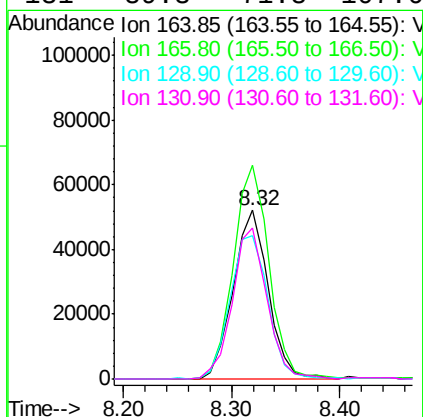
Instrument :
MSVOA_F
ClientSampleId :
VF0515SBS01

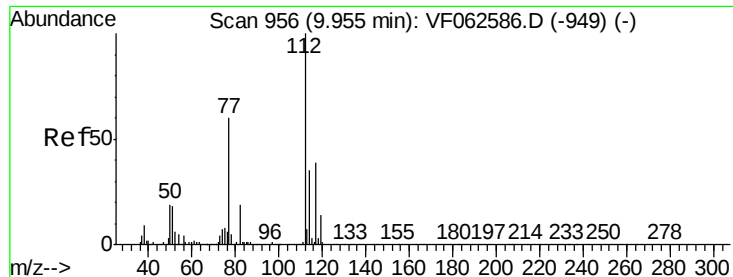
Tot Ion:117 Resp: 794430
Ion Ratio Lower Upper
117 100
82 56.5 43.4 65.0
119 34.5 27.7 41.5



#64
Tetrachloroethene
Concen: 22.426 ug/l
RT: 8.32 min Scan# 790
Delta R.T. -0.01 min
Lab File: VF062609.D
Acq: 15 May 2019 15:24

Tgt Ion:164 Resp: 117725
Ion Ratio Lower Upper
164 100
166 126.5 98.6 148.0
129 85.0 80.2 120.4
131 89.3 71.8 107.6





#65

Chlorobenzene

Concen: 22.266 ug/l

RT: 9.95 min Scan# 955

Delta R.T. -0.01 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

Instrument :

MSVOA_F

ClientSampleId :

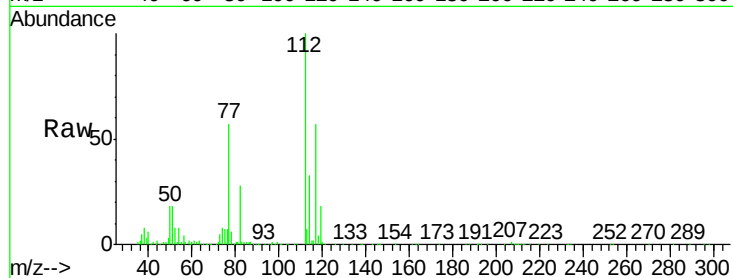
VF0515SBS01

Tot Ion:112 Resp: 307527

Ion Ratio Lower Upper

112 100

114 33.2 27.9 41.9



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

9.95

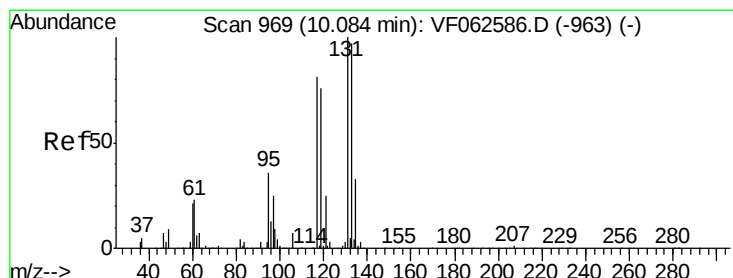
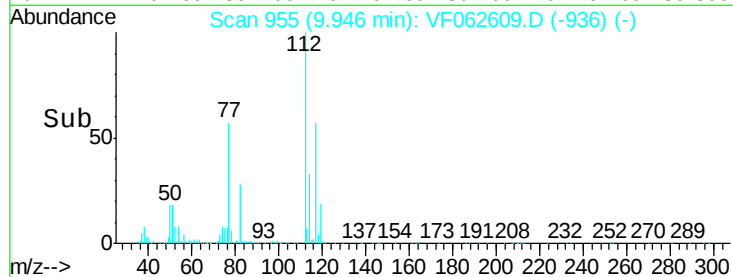
150000

100000

50000

0

Time--> 9.80 9.90 10.00 10.10



#66

1,1,1,2-Tetrachloroethane

Concen: 22.075 ug/l

RT: 10.07 min Scan# 968

Delta R.T. -0.01 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

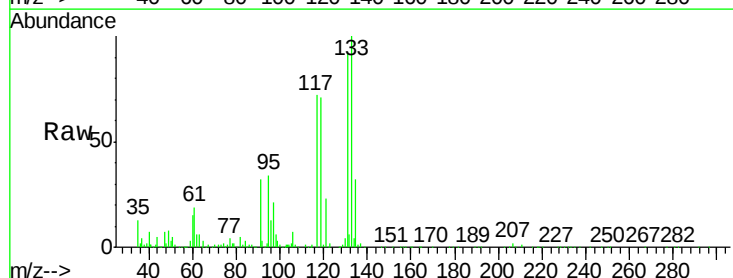
Tgt Ion:131 Resp: 125229

Ion Ratio Lower Upper

131 100

133 108.3 48.4 145.3

119 77.2 38.5 115.5



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

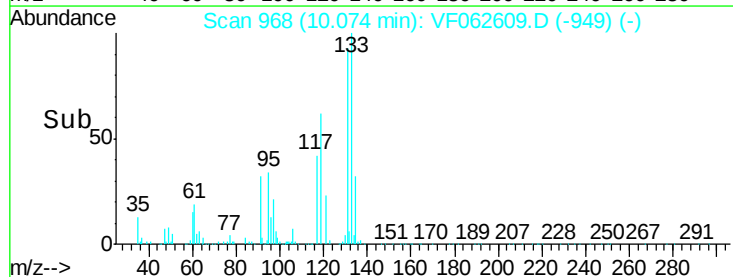
150000

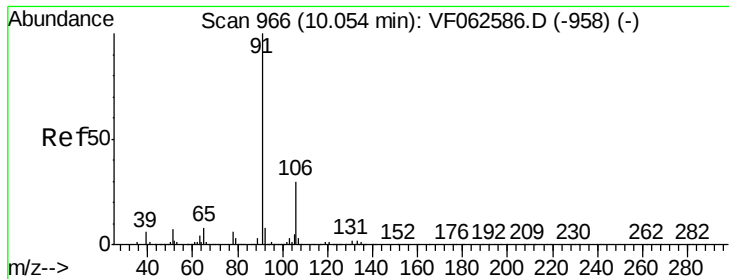
100000

50000

0

Time--> 10.00 10.10 10.20





#67

Ethyl Benzene

Concen: 21.655 ug/l

RT: 10.04 min Scan# 965

Delta R.T. -0.01 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

Instrument :

MSVOA_F

ClientSampleId :

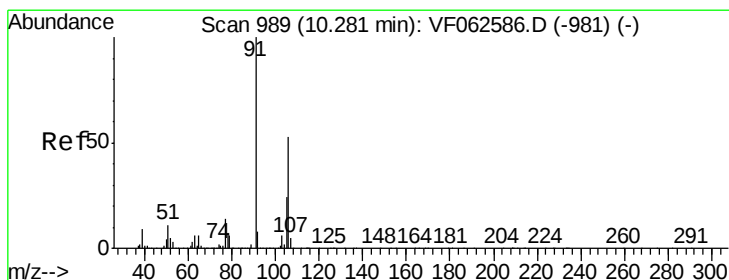
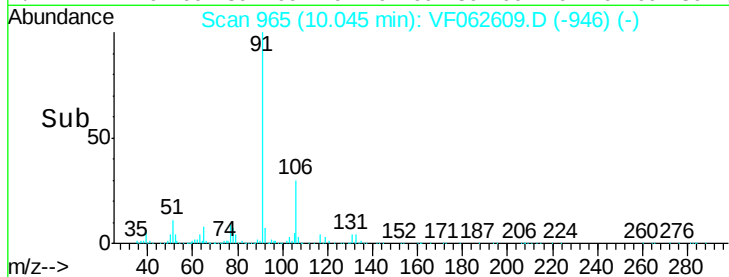
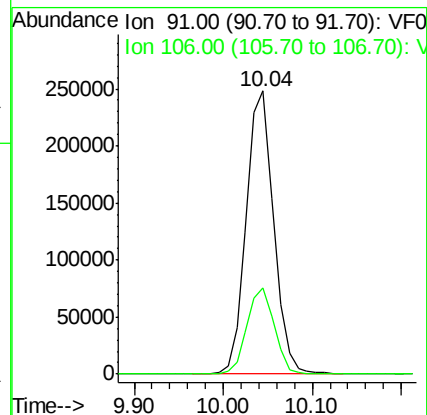
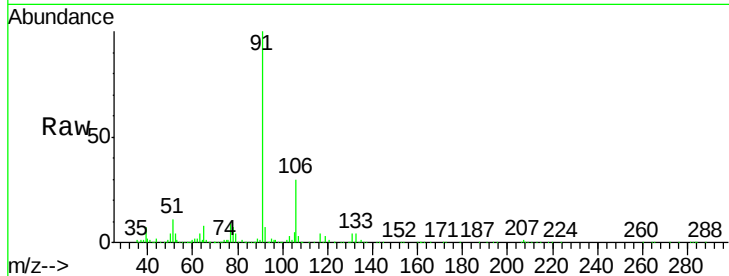
VF0515SBS01

Tot Ion: 91 Resp: 531389

Ion Ratio Lower Upper

91 100

106 30.3 24.2 36.4



#68

m/p-Xylenes

Concen: 46.477 ug/l

RT: 10.27 min Scan# 988

Delta R.T. -0.01 min

Lab File: VF062609.D

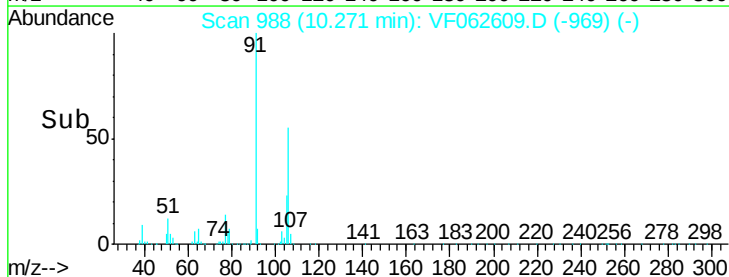
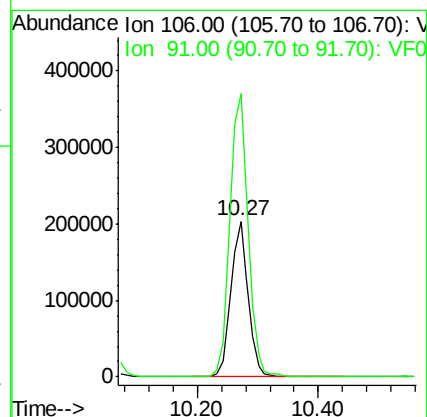
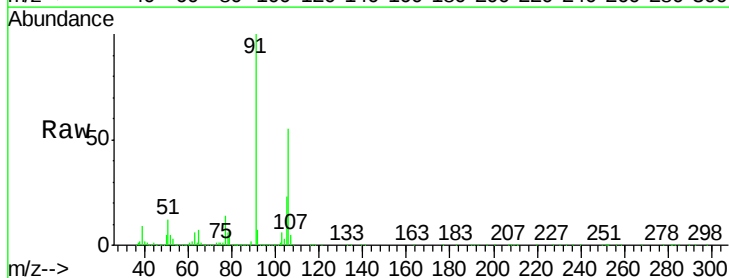
Acq: 15 May 2019 15:24

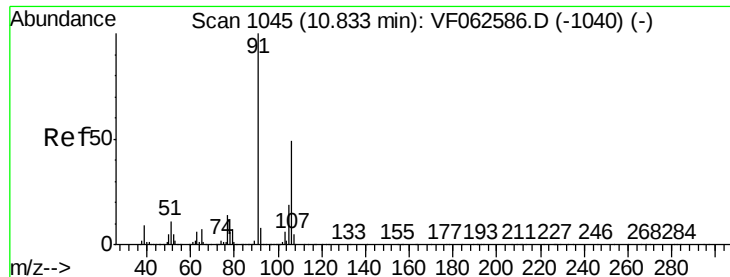
Tgt Ion: 106 Resp: 404230

Ion Ratio Lower Upper

106 100

91 181.9 150.5 225.7

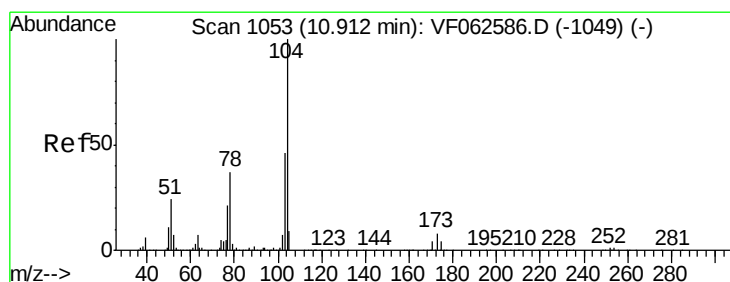
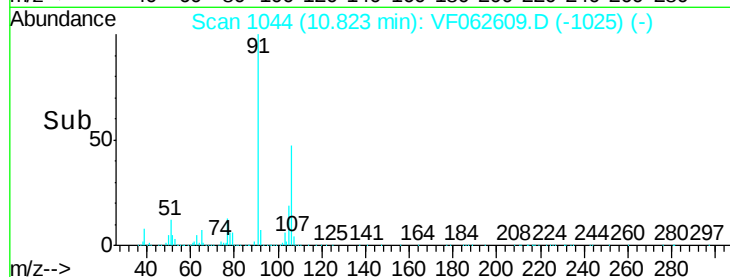
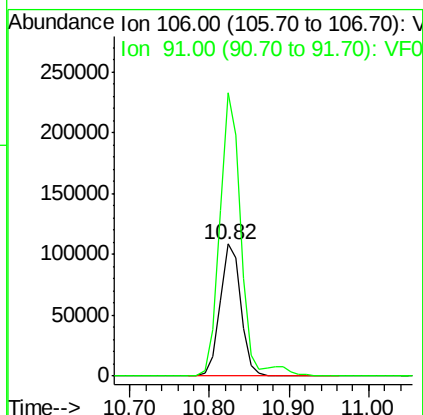
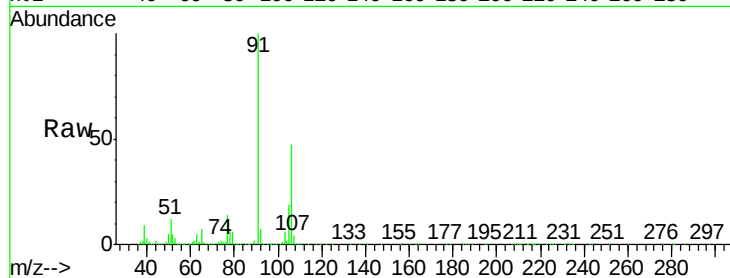




#69
o-Xylene
Concen: 22.078 ug/l
RT: 10.82 min Scan# 1044
Delta R.T. -0.01 min
Lab File: VF062609.D
Acq: 15 May 2019 15:24

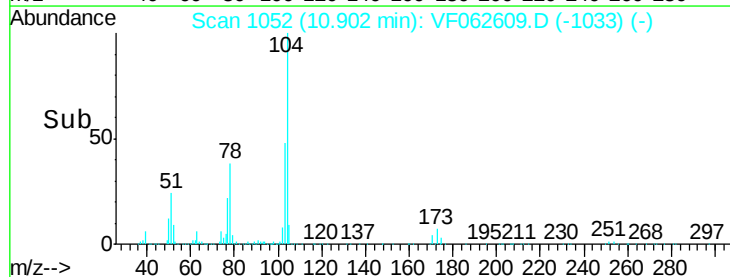
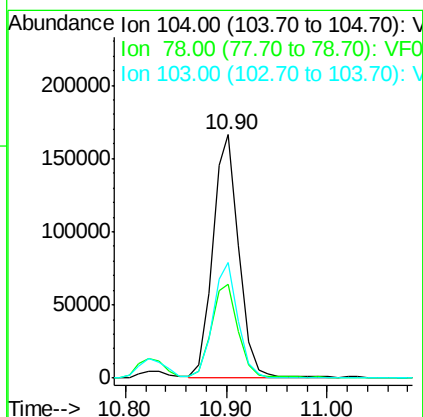
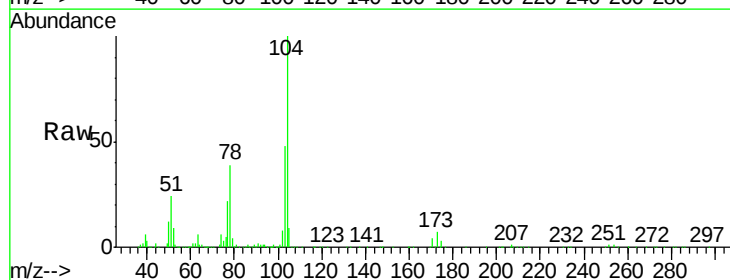
Instrument :
MSVOA_F
ClientSampleId :
VF0515SBS01

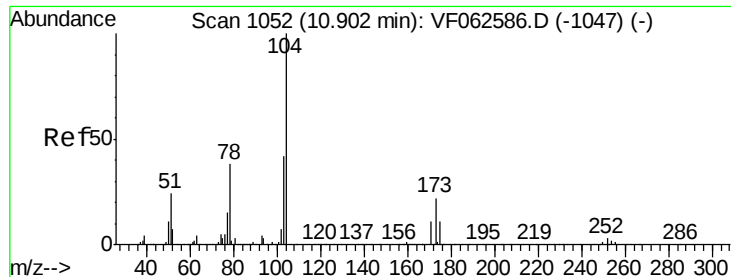
Tot Ion:106 Resp: 201434
Ion Ratio Lower Upper
106 100
91 214.3 102.0 305.9



#70
Styrene
Concen: 21.641 ug/l
RT: 10.90 min Scan# 1052
Delta R.T. -0.01 min
Lab File: VF062609.D
Acq: 15 May 2019 15:24

Tgt Ion:104 Resp: 300024
Ion Ratio Lower Upper
104 100
78 38.5 30.2 45.2
103 47.7 37.0 55.6





#71

Bromoform

Concen: 21.136 ug/l

RT: 10.88 min Scan# 1050

Delta R.T. -0.02 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

Instrument :

MSVOA_F

ClientSampleId :

VF0515SBSD01

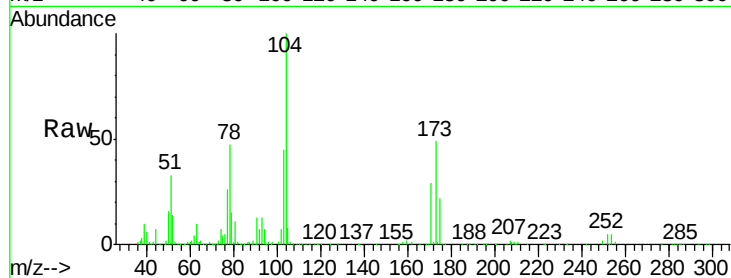
Tot Ion:173 Resp: 56454

Ion Ratio Lower Upper

173 100

175 46.2 24.1 72.3

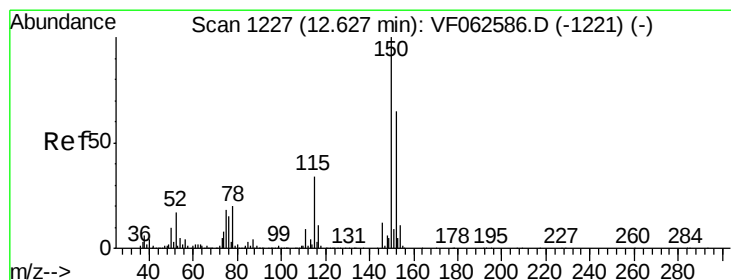
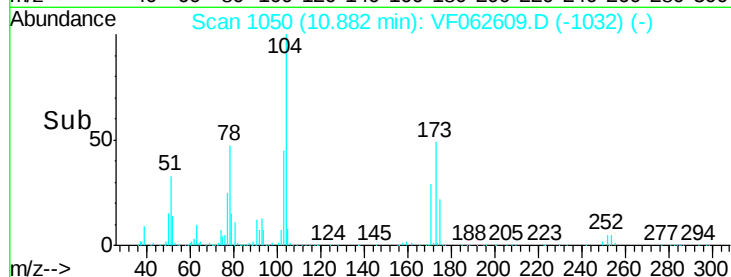
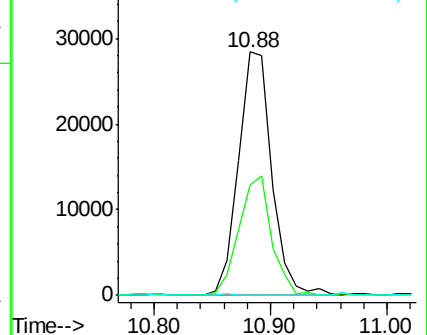
254 0.0 0.0 0.0



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1226

Delta R.T. -0.01 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

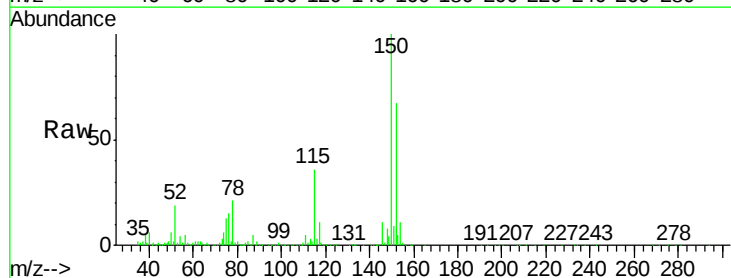
Tgt Ion:152 Resp: 384300

Ion Ratio Lower Upper

152 100

115 53.4 26.2 78.6

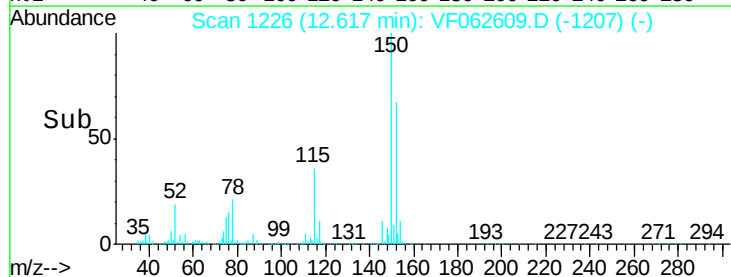
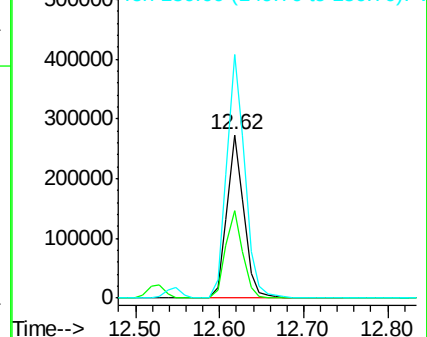
150 149.2 0.0 316.0

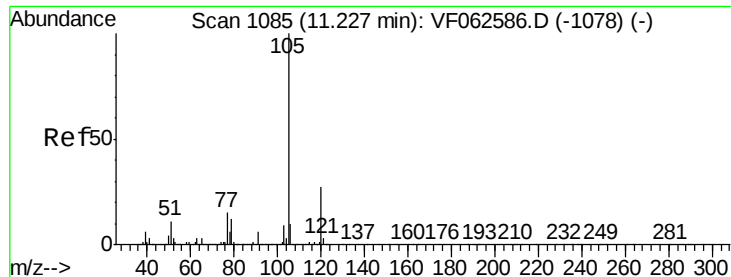


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 21.357 ug/l

RT: 11.22 min Scan# 1084

Delta R.T. -0.01 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

Instrument :

MSVOA_F

ClientSampleId :

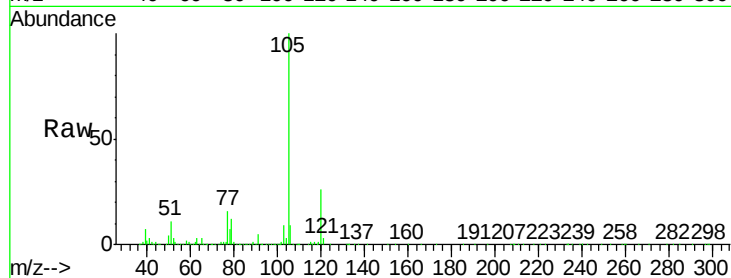
VF0515SBS01

Tot Ion:105 Resp: 551847

Ion Ratio Lower Upper

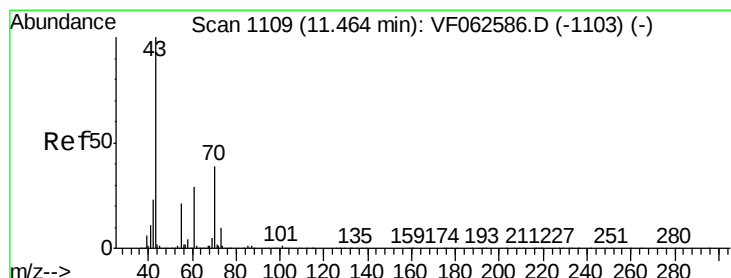
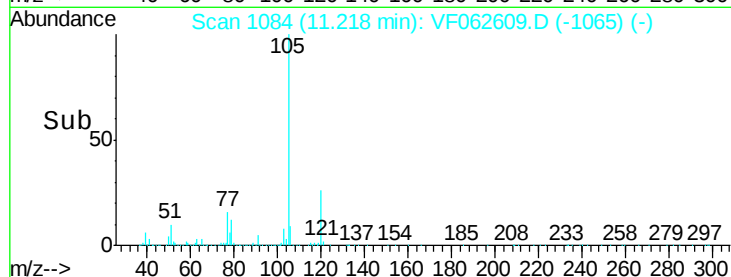
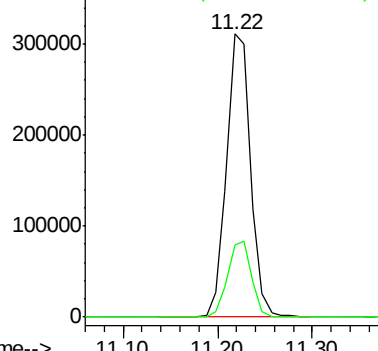
105 100

120 25.7 13.5 40.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 22.161 ug/l

RT: 11.45 min Scan# 1108

Delta R.T. -0.01 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

Tgt Ion: 43 Resp: 139041

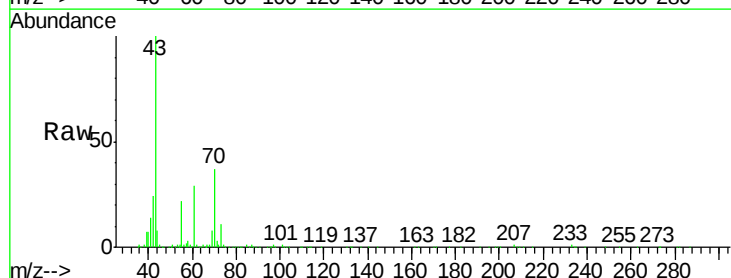
Ion Ratio Lower Upper

43 100

70 36.8 31.0 46.4

55 22.1 16.7 25.1

61 29.2 23.4 35.2

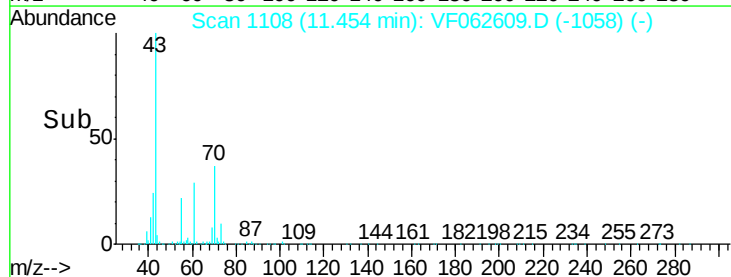
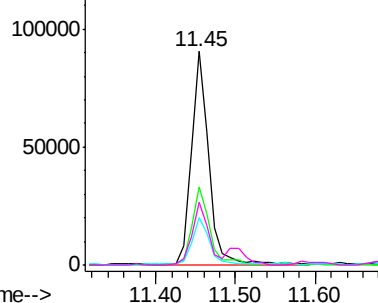


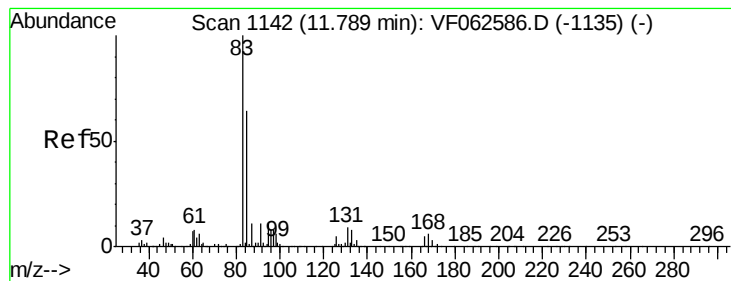
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 20.445 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. -0.01 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

Instrument :

MSVOA_F

ClientSampleId :

VF0515SBS01

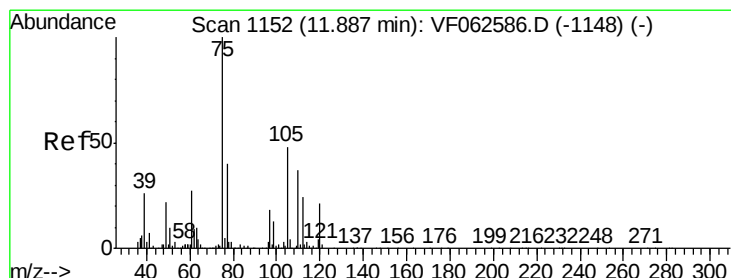
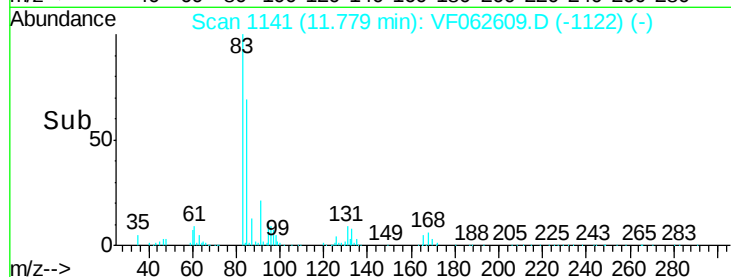
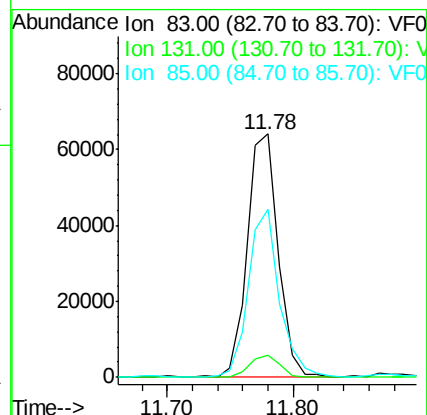
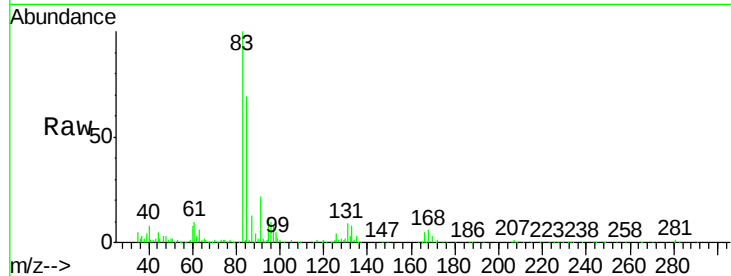
Tot Ion: 83 Resp: 108224

Ion Ratio Lower Upper

83 100

131 9.3 4.6 13.8

85 68.8 32.1 96.3



#76

1,2,3-Trichloropropane

Concen: 21.056 ug/l

RT: 11.88 min Scan# 1151

Delta R.T. -0.01 min

Lab File: VF062609.D

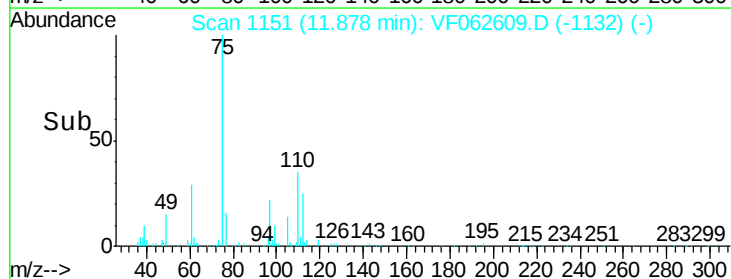
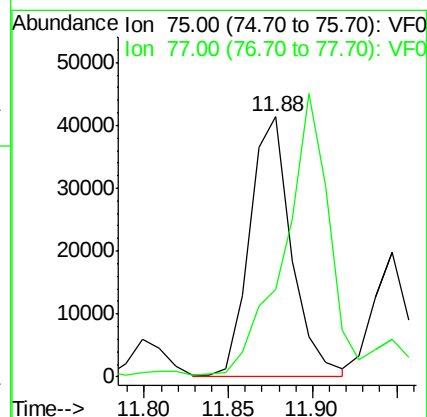
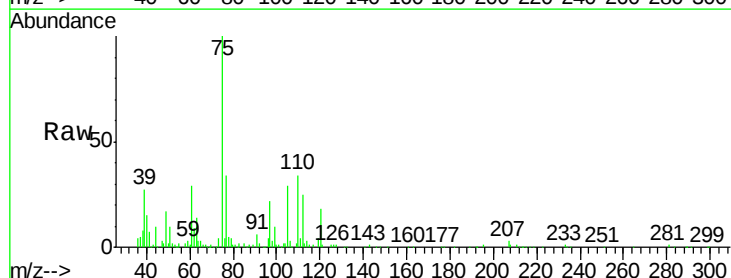
Acq: 15 May 2019 15:24

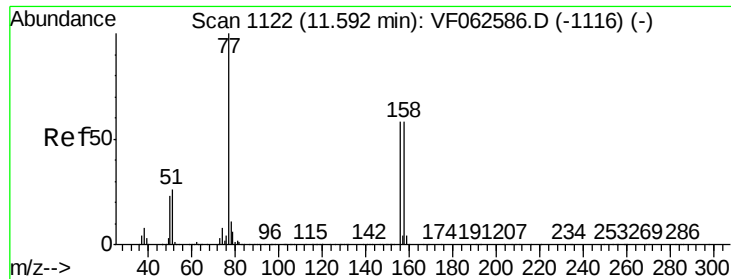
Tgt Ion: 75 Resp: 71456

Ion Ratio Lower Upper

75 100

77 33.5 20.4 61.3





#77

Bromobenzene

Concen: 21.864 ug/l

RT: 11.59 min Scan# 1122

Delta R.T. 0.00 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

Instrument :

MSVOA_F

ClientSampleId :

VF0515SBS01

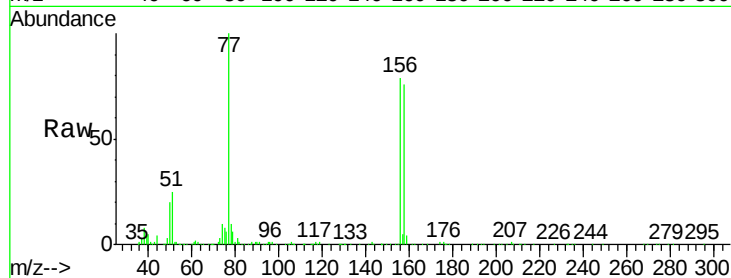
Tot Ion:156 Resp: 127668

Ion Ratio Lower Upper

156 100

77 127.4 86.5 259.5

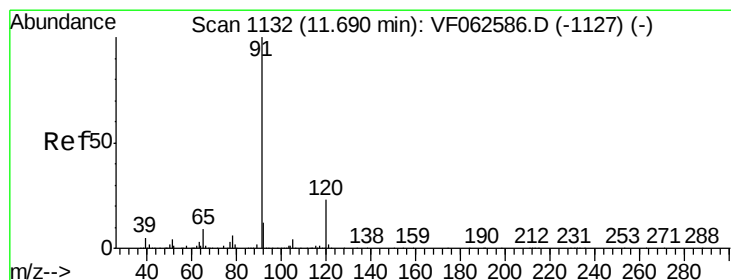
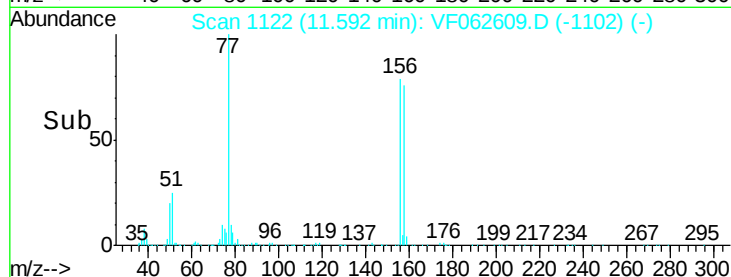
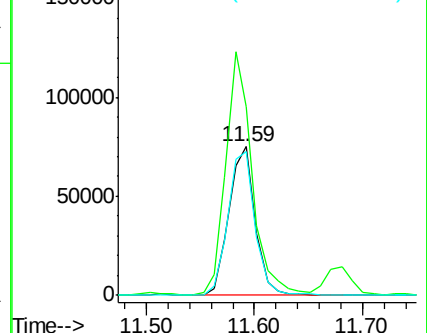
158 96.4 50.3 150.9



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: 21.338 ug/l

RT: 11.68 min Scan# 1131

Delta R.T. -0.01 min

Lab File: VF062609.D

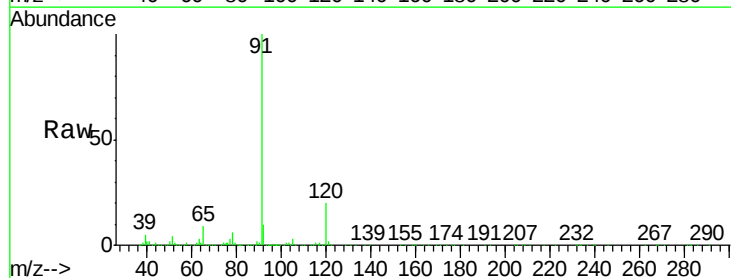
Acq: 15 May 2019 15:24

Tgt Ion: 91 Resp: 655797

Ion Ratio Lower Upper

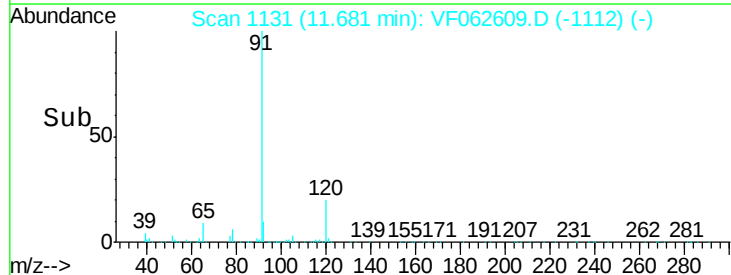
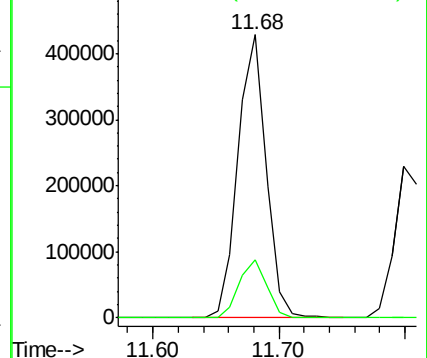
91 100

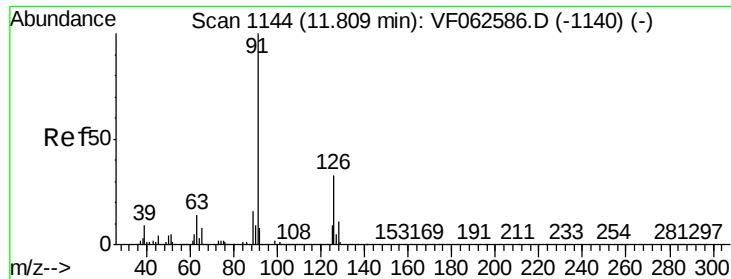
120 20.5 11.7 35.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

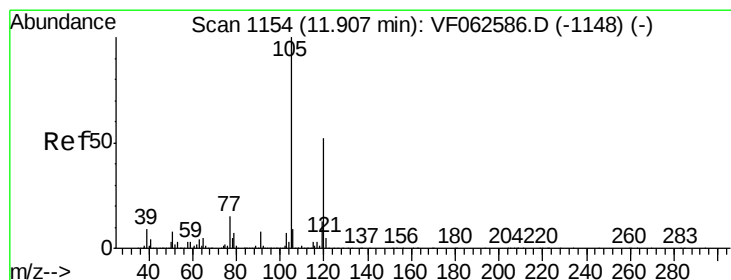
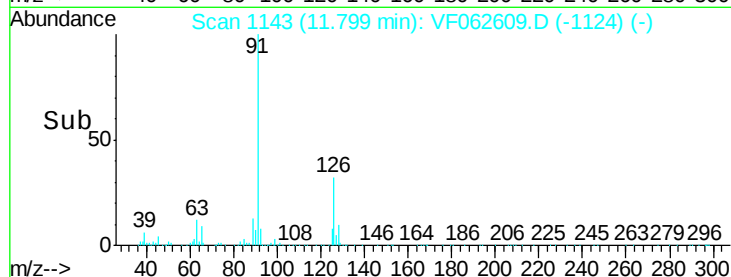
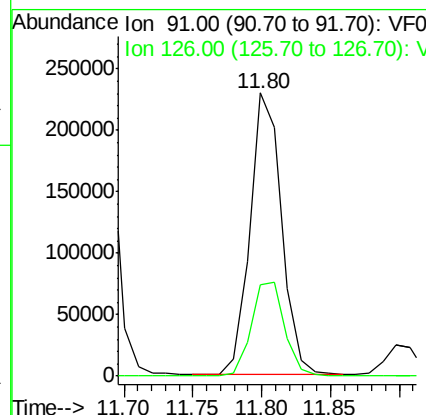
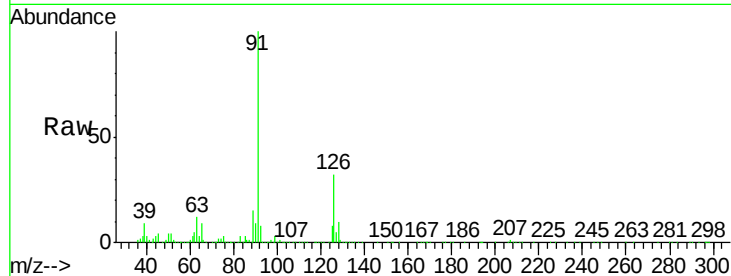




#79
 2-Chlorotoluene
 Concen: 21.623 ug/l
 RT: 11.80 min Scan# 1143
 Delta R.T. -0.01 min
 Lab File: VF062609.D
 Acq: 15 May 2019 15:24

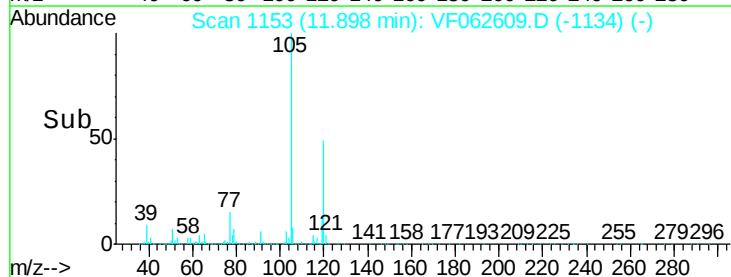
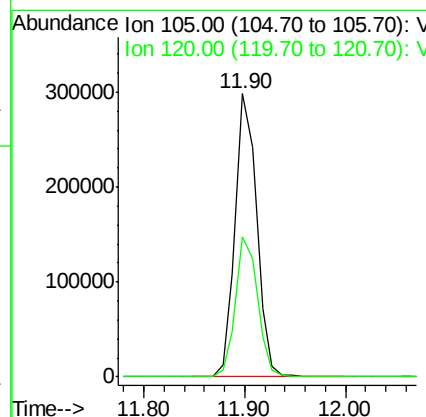
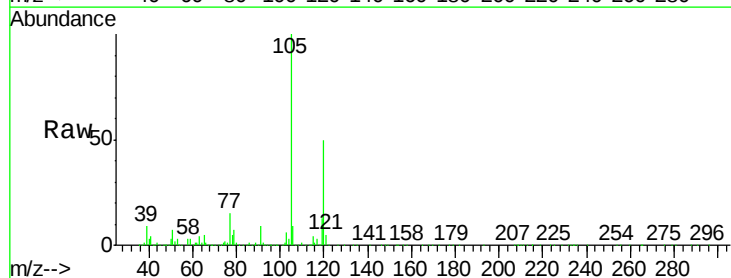
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0515SBS01

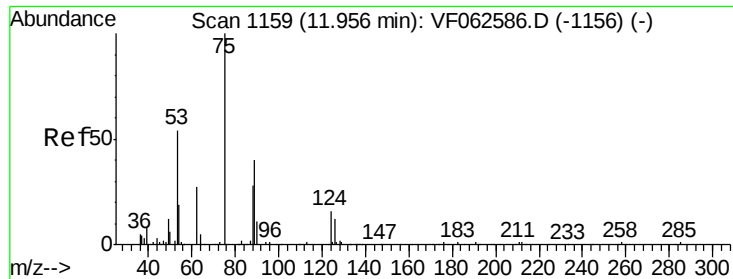
Tot Ion: 91 Resp: 366767
 Ion Ratio Lower Upper
 91 100
 126 32.3 16.6 49.8



#80
 1,3,5-Trimethylbenzene
 Concen: 21.995 ug/l
 RT: 11.90 min Scan# 1153
 Delta R.T. -0.01 min
 Lab File: VF062609.D
 Acq: 15 May 2019 15:24

Tgt Ion: 105 Resp: 444878
 Ion Ratio Lower Upper
 105 100
 120 49.7 25.9 77.6





#81

trans-1,4-Dichloro-2-butene

Concen: 21.134 ug/l m

RT: 11.95 min Scan# 1158

Delta R.T. -0.01 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

Instrument :

MSVOA_F

ClientSampleId :

VF0515SBS01

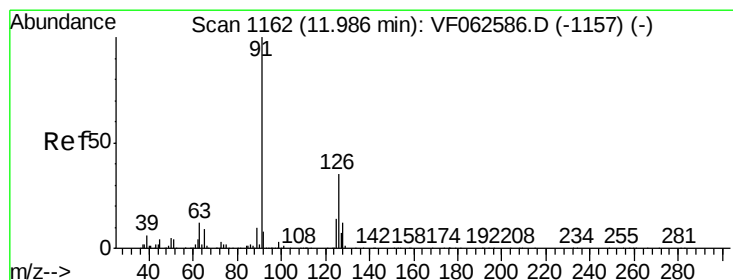
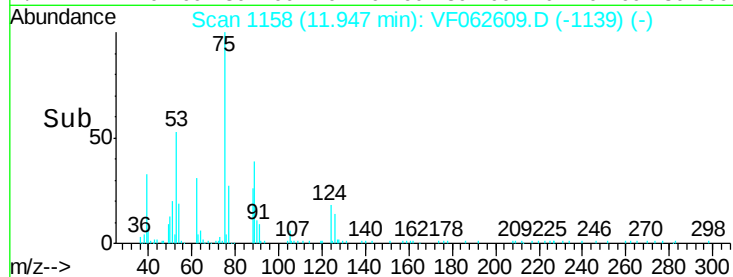
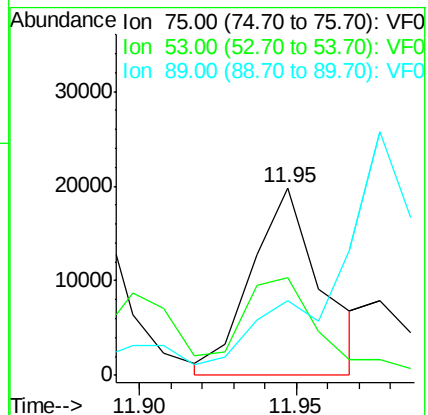
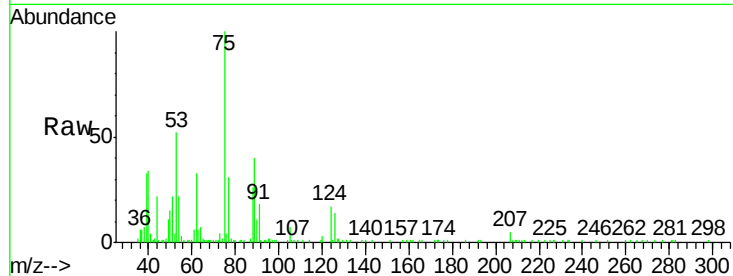
Tot Ion: 75 Resp: 30570

Ion Ratio Lower Upper

75 100

53 52.3 46.6 70.0

89 40.1 33.8 50.8



#82

4-Chlorotoluene

Concen: 22.052 ug/l

RT: 11.98 min Scan# 1161

Delta R.T. -0.01 min

Lab File: VF062609.D

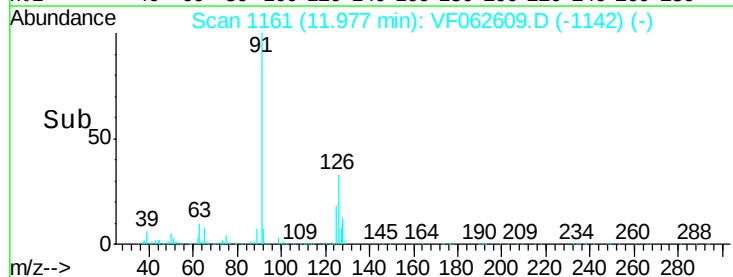
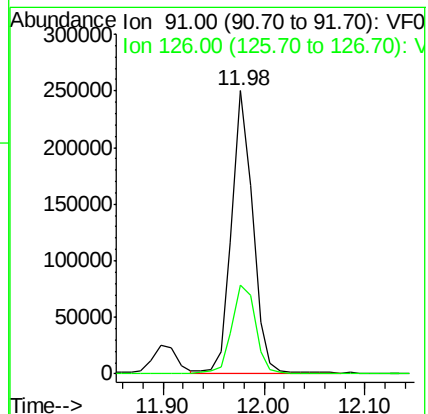
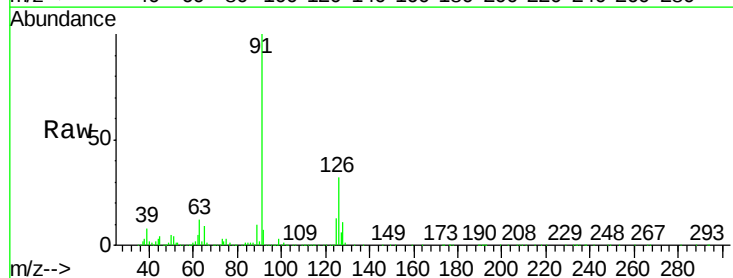
Acq: 15 May 2019 15:24

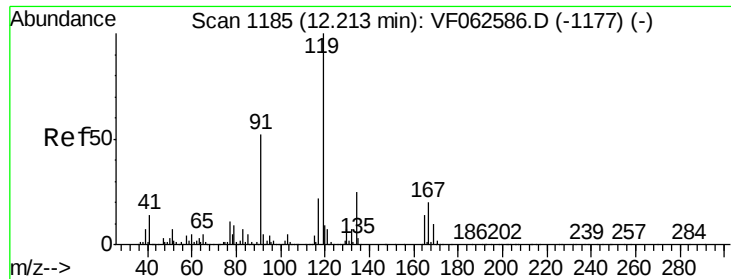
Tgt Ion: 91 Resp: 365732

Ion Ratio Lower Upper

91 100

126 31.6 17.5 52.5

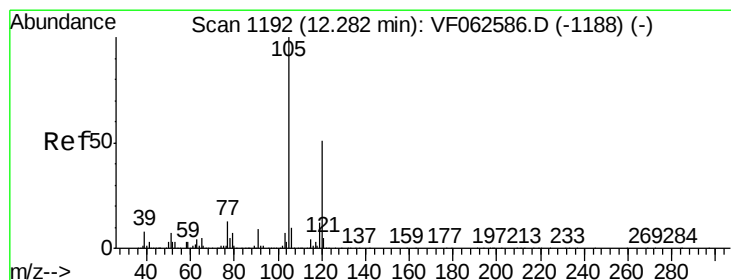
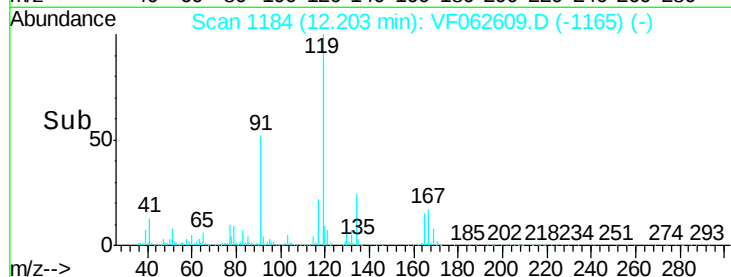
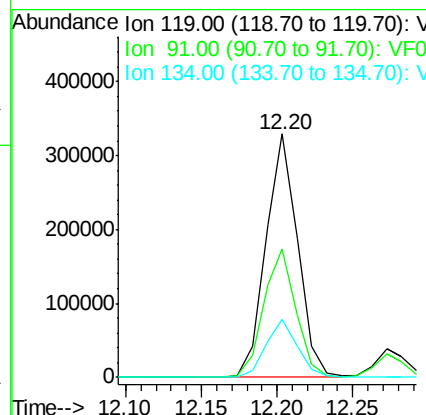
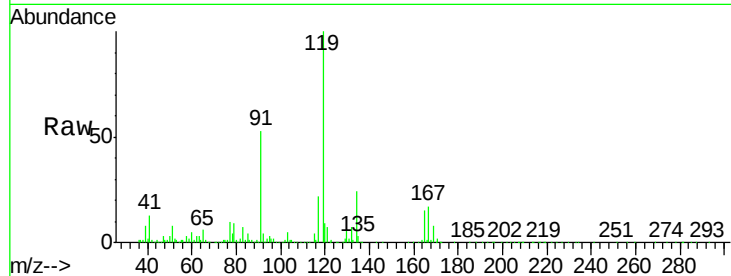




#83
tert-Butylbenzene
Concen: 22.895 ug/l
RT: 12.20 min Scan# 1184
Delta R.T. -0.01 min
Lab File: VF062609.D
Acq: 15 May 2019 15:24

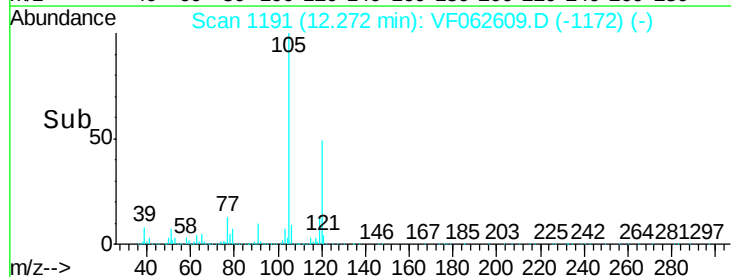
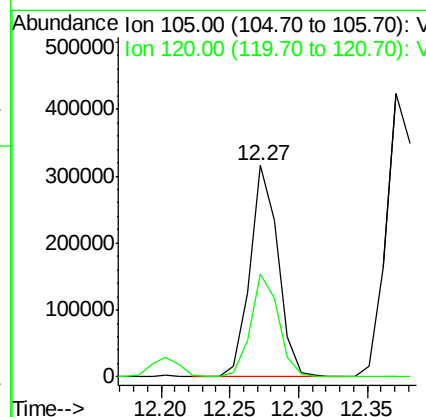
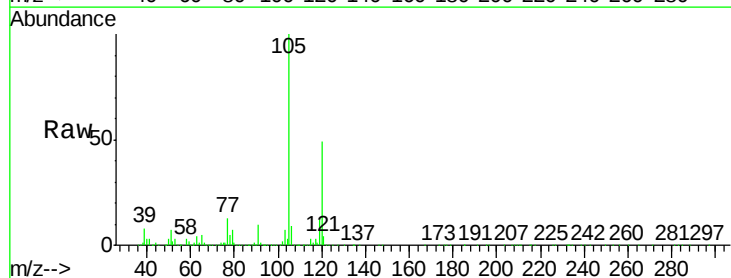
Instrument :
MSVOA_F
ClientSampleId :
VF0515SBS01

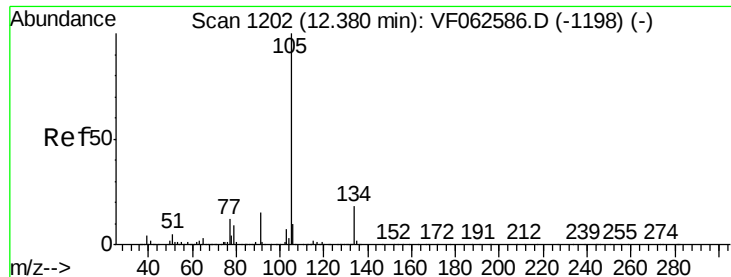
Tot Ion:119 Resp: 484403
Ion Ratio Lower Upper
119 100
91 52.7 26.0 78.0
134 23.7 12.6 37.8



#84
1,2,4-Trimethylbenzene
Concen: 22.641 ug/l
RT: 12.27 min Scan# 1191
Delta R.T. -0.01 min
Lab File: VF062609.D
Acq: 15 May 2019 15:24

Tgt Ion:105 Resp: 449848
Ion Ratio Lower Upper
105 100
120 48.9 25.4 76.0





#85

sec-Butylbenzene

Concen: 22.206 ug/l

RT: 12.37 min Scan# 1201

Delta R.T. -0.01 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

Instrument :

MSVOA_F

ClientSampleId :

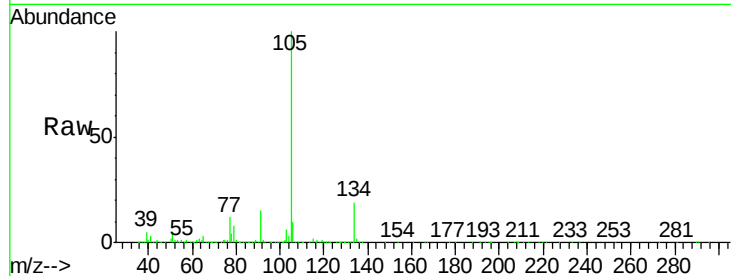
VF0515SBS01

Tot Ion:105 Resp: 637857

Ion Ratio Lower Upper

105 100

134 18.8 9.3 27.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

12.37

400000

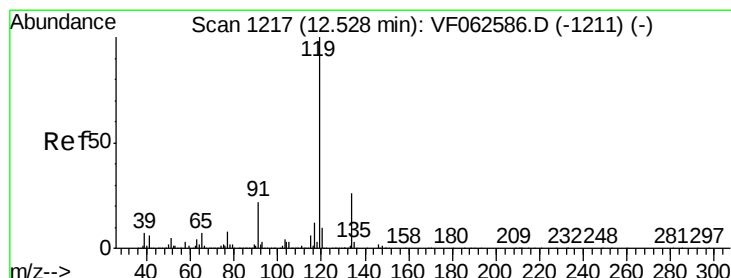
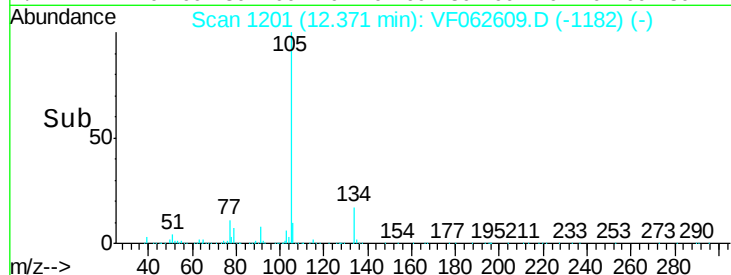
300000

200000

100000

0

Time-->



#86

p-Isopropyltoluene

Concen: 22.387 ug/l

RT: 12.53 min Scan# 1217

Delta R.T. 0.00 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

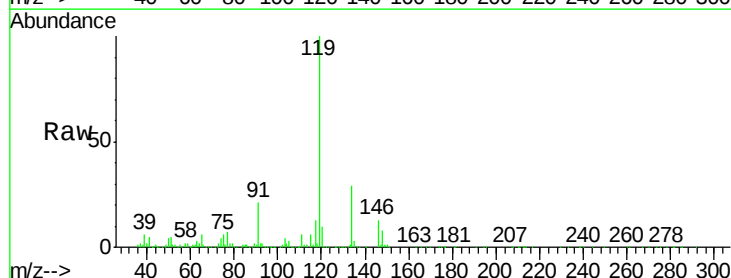
Tgt Ion:119 Resp: 529349

Ion Ratio Lower Upper

119 100

134 29.4 13.0 39.0

91 20.6 10.9 32.9



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

400000

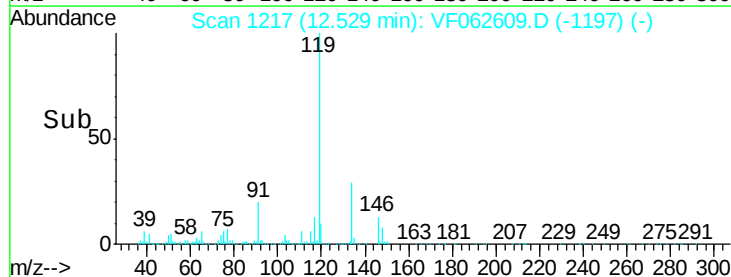
300000

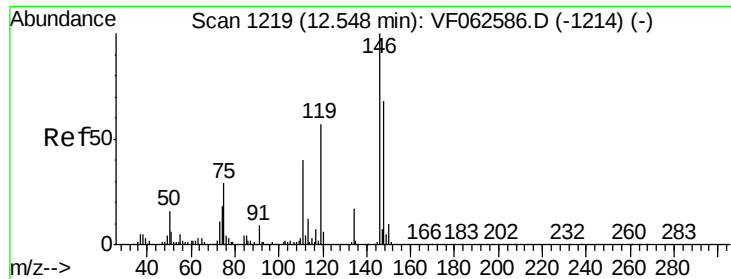
200000

100000

0

Time-->

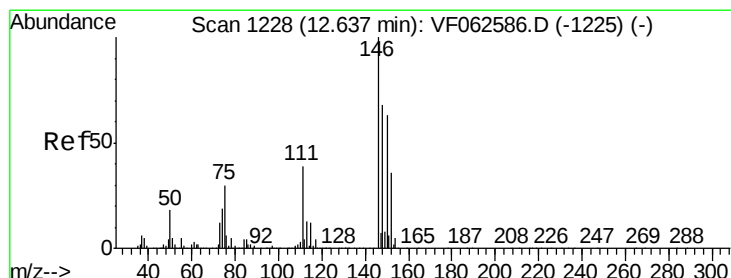
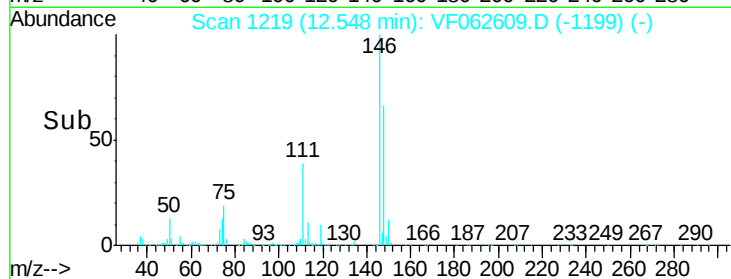
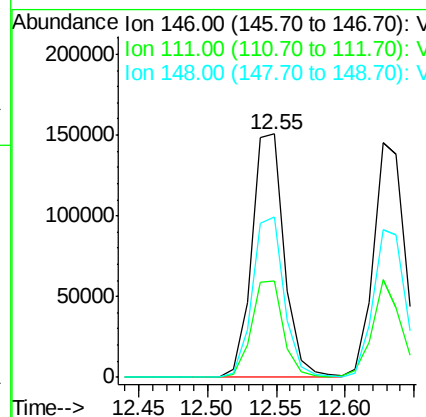
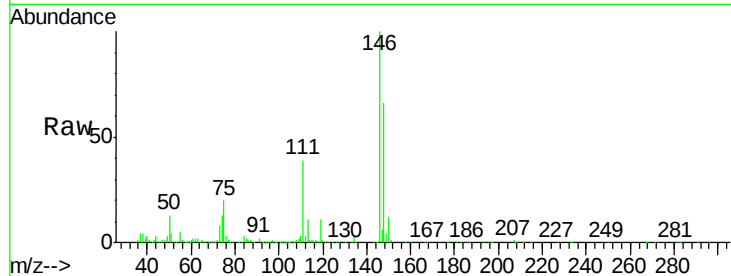




#87
 1,3-Dichlorobenzene
 Concen: 21.798 ug/l
 RT: 12.55 min Scan# 1219
 Delta R.T. 0.00 min
 Lab File: VF062609.D
 Acq: 15 May 2019 15:24

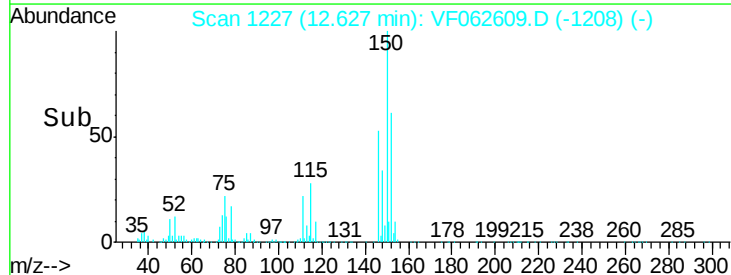
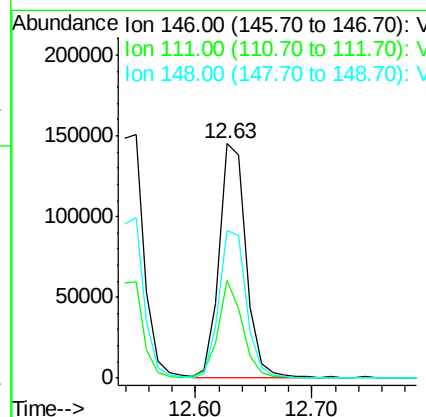
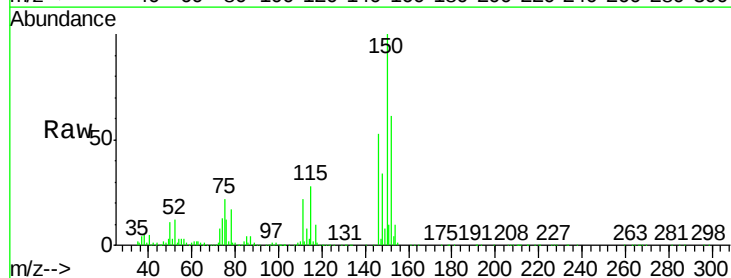
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0515SBS01

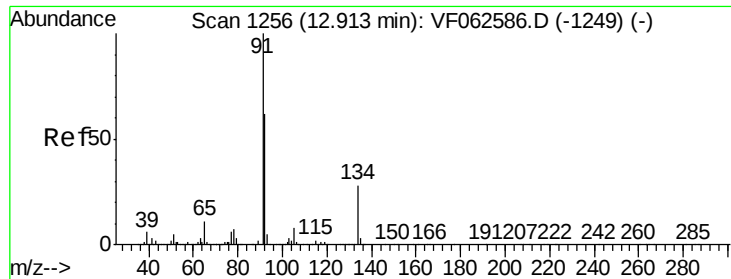
Tot Ion	Ratio	Lower	Upper
146	100		
111	39.4	20.1	60.2
148	65.7	34.0	101.8



#88
 1,4-Dichlorobenzene
 Concen: 21.657 ug/l
 RT: 12.63 min Scan# 1227
 Delta R.T. -0.01 min
 Lab File: VF062609.D
 Acq: 15 May 2019 15:24

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.6	19.4	58.1
148	62.9	34.2	102.5





#89

n-Butylbenzene

Concen: 22.790 ug/l

RT: 12.90 min Scan# 1255

Delta R.T. -0.01 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

Instrument :

MSVOA_F

ClientSampleId :

VF0515SBS01

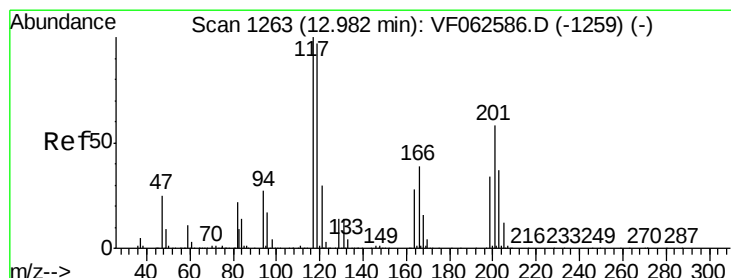
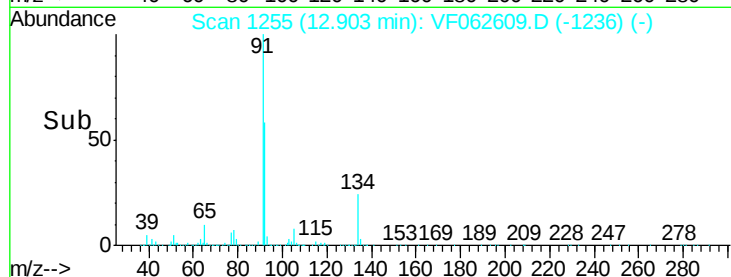
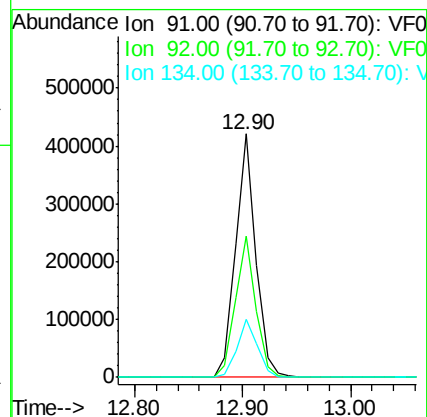
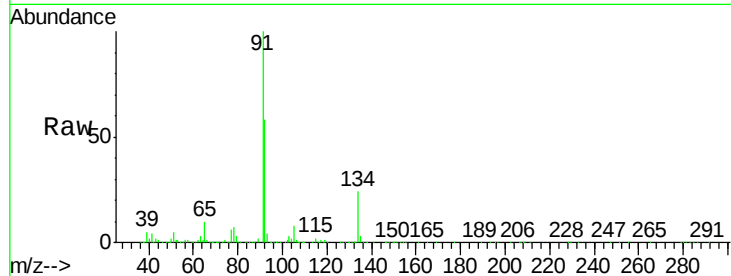
Tot Ion: 91 Resp: 548528

Ion Ratio Lower Upper

91 100

92 57.8 30.9 92.8

134 24.1 13.9 41.6



#90

Hexachloroethane

Concen: 22.354 ug/l

RT: 12.98 min Scan# 1263

Delta R.T. 0.00 min

Lab File: VF062609.D

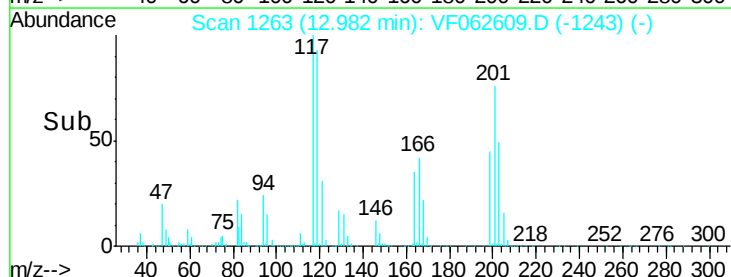
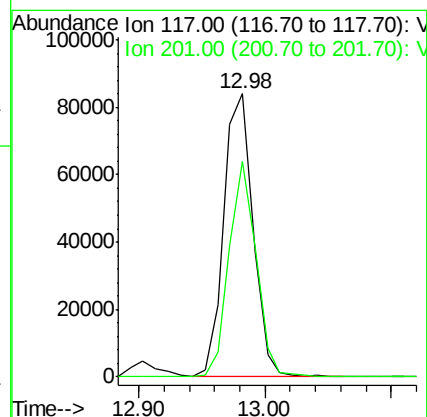
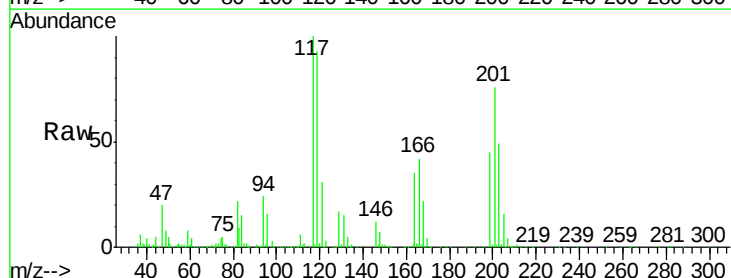
Acq: 15 May 2019 15:24

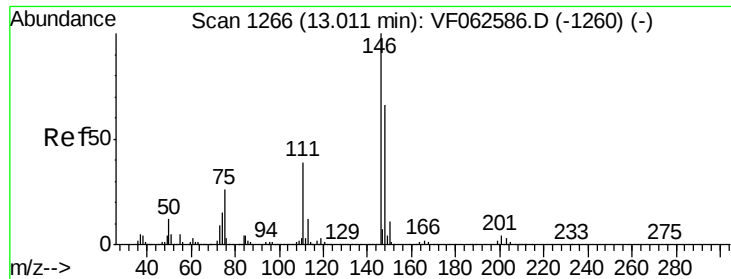
Tgt Ion: 117 Resp: 135391

Ion Ratio Lower Upper

117 100

201 77.6 29.7 89.1





#91

1,2-Dichlorobenzene

Concen: 22.764 ug/l

RT: 13.00 min Scan# 1265

Delta R.T. -0.01 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

Instrument :

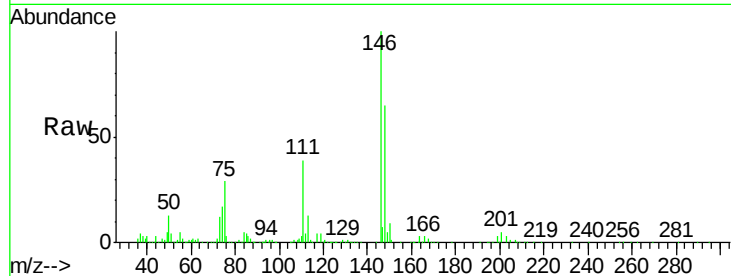
MSVOA_F

ClientSampleId :

VF0515SBS01

Tot Ion:146 Resp: 230647

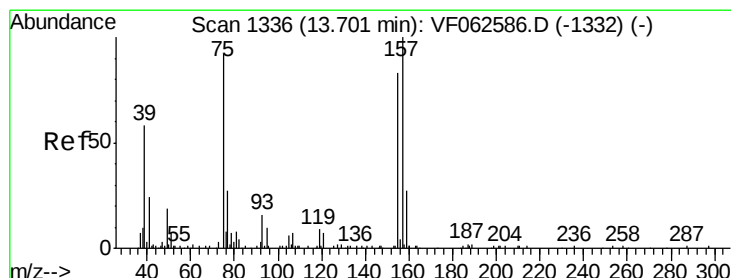
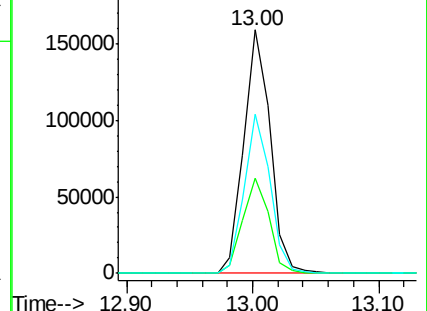
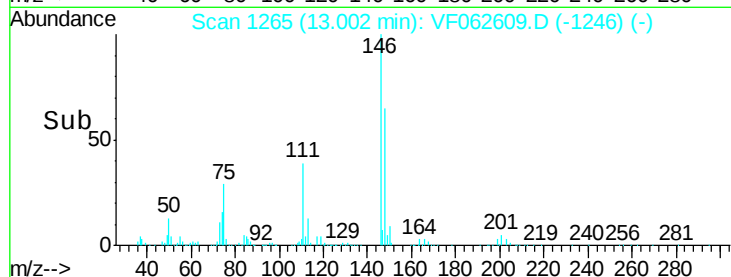
Ion	Ratio	Lower	Upper
146	100		
111	38.9	19.4	58.2
148	65.2	33.1	99.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 19.991 ug/l

RT: 13.69 min Scan# 1335

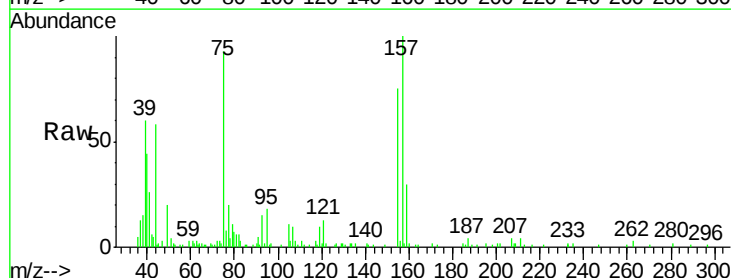
Delta R.T. -0.01 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

Tgt Ion: 75 Resp: 12999

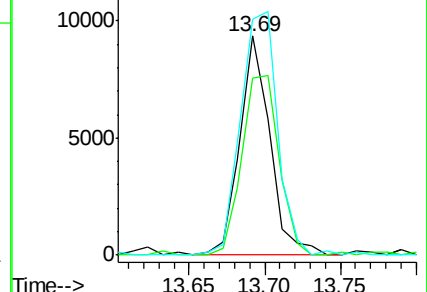
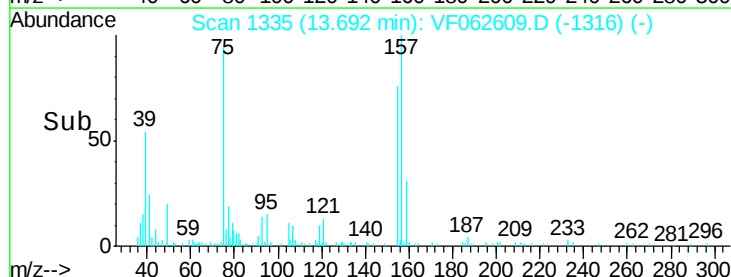
Ion	Ratio	Lower	Upper
75	100		
155	84.5	44.8	134.4
157	110.0	54.1	162.3

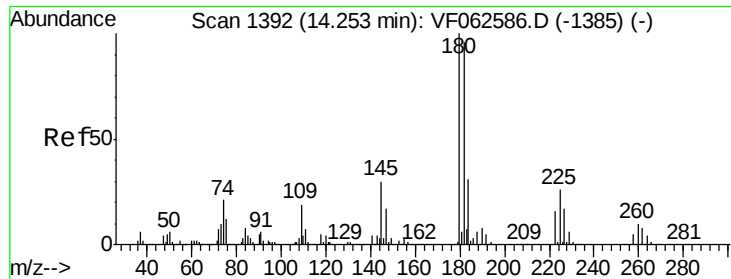


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

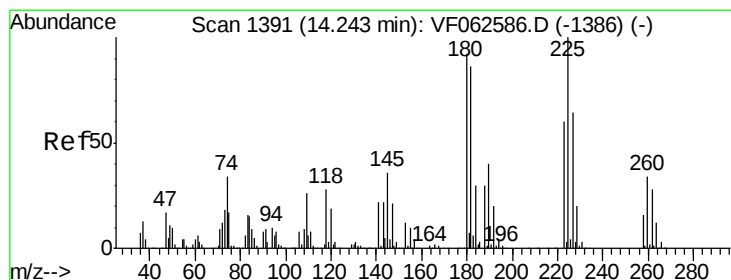
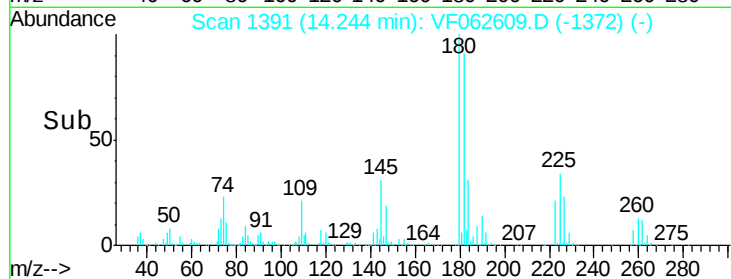
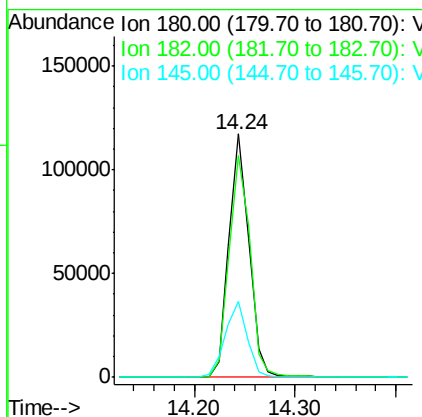
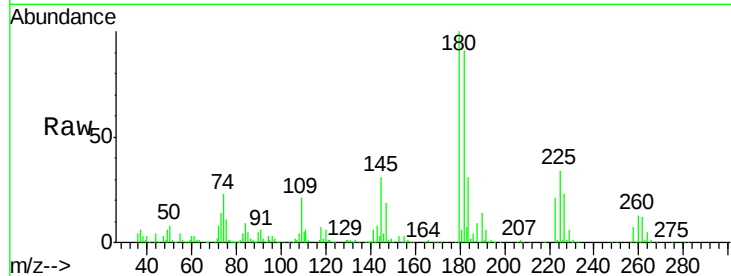




#93
 1,2,4-Trichlorobenzene
 Concen: 23.156 ug/l
 RT: 14.24 min Scan# 1391
 Delta R.T. -0.01 min
 Lab File: VF062609.D
 Acq: 15 May 2019 15:24

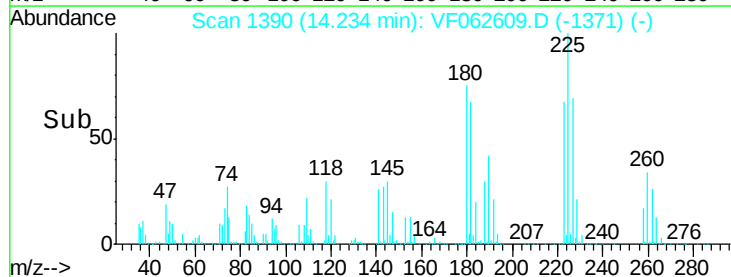
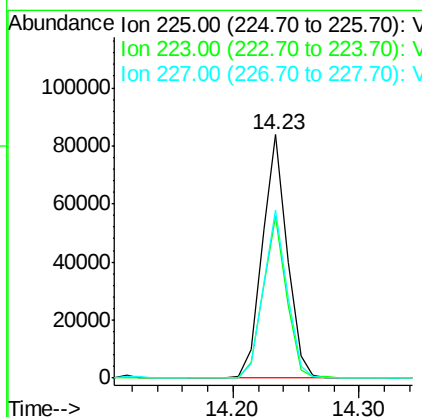
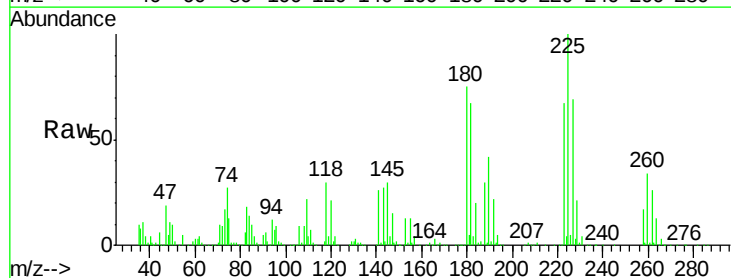
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0515SBS01

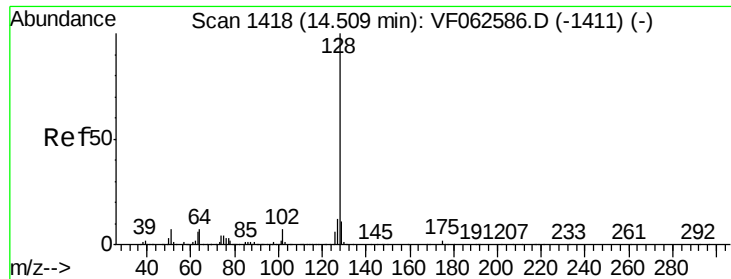
Tot Ion	180	Resp	163150
Ion Ratio	100	Lower	Upper
182	91.3	47.9	143.8
145	31.1	14.8	44.4



#94
 Hexachlorobutadiene
 Concen: 22.414 ug/l
 RT: 14.23 min Scan# 1390
 Delta R.T. -0.01 min
 Lab File: VF062609.D
 Acq: 15 May 2019 15:24

Tgt Ion	225	Resp	114715
Ion Ratio	100	Lower	Upper
223	66.6	29.9	89.7
227	69.2	31.9	95.9





#95

Naphthalene

Concen: 21.690 ug/l

RT: 14.50 min Scan# 1417

Delta R.T. -0.01 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

Instrument :

MSVOA_F

ClientSampleId :

VF0515SBS01

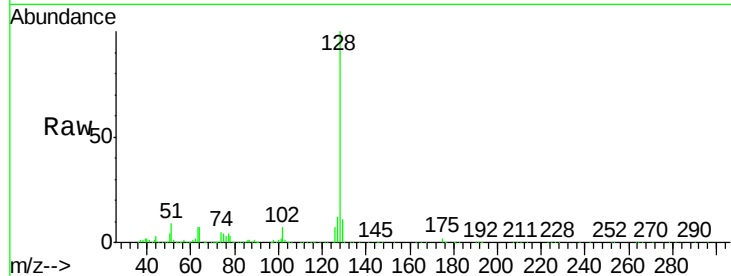
Tot Ion:128 Resp: 248739

Ion Ratio Lower Upper

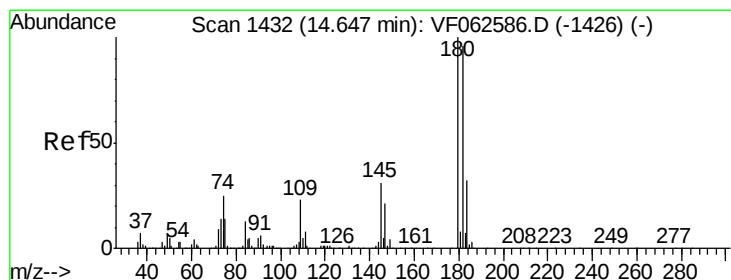
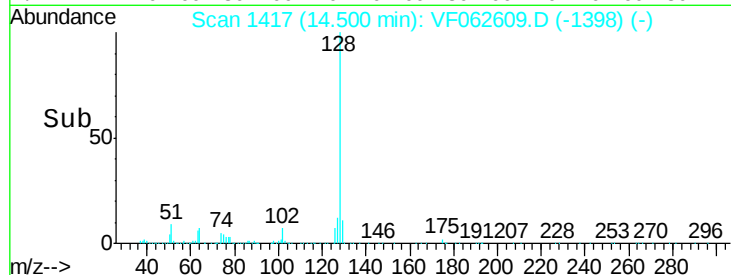
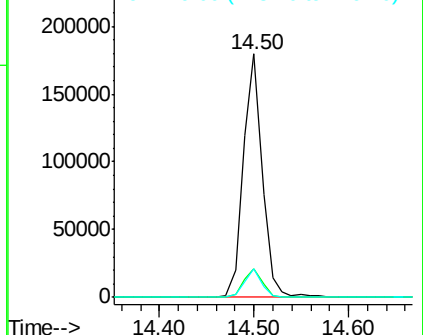
128 100

127 11.6 9.5 14.3

129 11.5 8.6 13.0



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: 23.117 ug/l

RT: 14.65 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VF062609.D

Acq: 15 May 2019 15:24

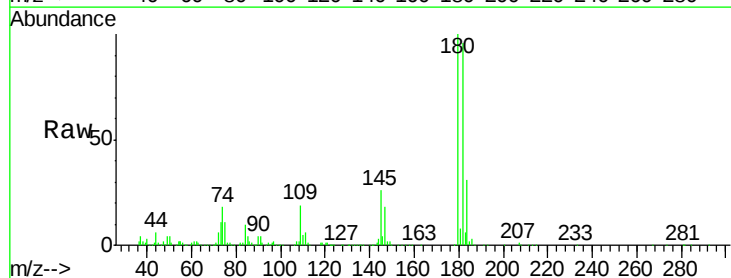
Tgt Ion:180 Resp: 151098

Ion Ratio Lower Upper

180 100

182 96.1 48.1 144.3

145 26.4 15.6 46.7



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

