

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF022719\
 Data File : VF061762.D
 Acq On : 27 Feb 2019 12:53
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Quant Time: Feb 28 00:41:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	334566	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.58	114	496459	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.76	117	424057	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.54	152	224707	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.82	65	127554	51.99	ug/l	-0.04
Spiked Amount				50.000		
			Recovery	=	103.98%	
35) Dibromofluoromethane	4.09	113	174510	47.33	ug/l	-0.03
Spiked Amount				50.000		
			Recovery	=	94.66%	
50) Toluene-d8	7.53	98	533747	50.36	ug/l	-0.03
Spiked Amount				50.000		
			Recovery	=	100.72%	
62) 4-Bromofluorobenzene	11.40	95	205318	47.88	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	95.76%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	168651	43.895	ug/l	95
3) Chloromethane	1.10	50	176813	43.861	ug/l	100
4) Vinyl Chloride	1.14	62	168582	44.984	ug/l	97
5) Bromomethane	1.32	94	127886	49.583	ug/l	91
6) Chloroethane	1.40	64	84694	45.859	ug/l	100
7) Trichlorofluoromethane	1.48	101	219798	48.628	ug/l	99
8) Diethyl Ether	1.62	74	50340	44.193	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	1.84	101	153566	47.095	ug/l #	87
10) Methyl Iodide	1.91	142	302416m	48.551	ug/l	
11) Tert butyl alcohol	2.56	59	33475	235.758	ug/l #	92
12) 1,1-Dichloroethene	1.79	96	139999m	48.833	ug/l	
13) Acrolein	1.99	56	43262	242.426	ug/l	97
14) Allyl chloride	2.09	41	160984	45.760	ug/l	99
15) Acrylonitrile	2.93	53	103242	204.992	ug/l	94
16) Acetone	2.23	43	145090	275.630	ug/l	97
17) Carbon Disulfide	1.82	76	414962m	46.047	ug/l	
18) Methyl Acetate	2.33	43	61292	51.687	ug/l	97
19) Methyl tert-butyl Ether	2.42	73	243905	49.780	ug/l	98
20) Methylene Chloride	2.17	84	144028m	51.118	ug/l	
21) trans-1,2-Dichloroethene	2.29	96	143045m	45.899	ug/l	
22) Diisopropyl ether	2.79	45	402522	47.666	ug/l	97
23) Vinyl Acetate	3.17	43	951278	230.634	ug/l	99
24) 1,1-Dichloroethane	2.86	63	234736	45.933	ug/l	99
25) 2-Butanone	4.31	43	278919	242.578	ug/l	99
26) 2,2-Dichloropropane	3.58	77	113980	52.655	ug/l	95
27) cis-1,2-Dichloroethene	3.46	96	196836	48.118	ug/l	96
28) Bromochloromethane	3.70	49	113555	46.310	ug/l	96
29) Tetrahydrofuran	4.05	42	111591	213.531	ug/l	98
30) Chloroform	3.84	83	276723	47.615	ug/l	97
31) Cyclohexane	3.67	56	244979m	44.282	ug/l	
32) 1,1,1-Trichloroethane	4.07	97	211337m	55.512	ug/l	
36) 1,1-Dichloropropene	4.26	75	238714	48.539	ug/l	93
37) Ethyl Acetate	4.09	43	95086	41.626	ug/l #	77
38) Carbon Tetrachloride	3.97	117	164344	48.394	ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.43	83	257887	44.338	ug/l	97
40) Benzene	4.61	78	632228	49.147	ug/l	98
41) Methacrylonitrile	4.73	41	53285	45.613	ug/l	98
42) 1,2-Dichloroethane	4.93	62	153516	49.890	ug/l	94
43) Isopropyl Acetate	6.94	43	125317	46.347	ug/l	95
44) Trichloroethene	5.49	130	198217	47.649	ug/l	93
45) 1,2-Dichloropropane	6.22	63	146911	47.247	ug/l	98
46) Dibromomethane	6.06	93	96349	50.326	ug/l	88
47) Bromodichloromethane	6.37	83	215522	51.406	ug/l	95
48) Methyl methacrylate	6.69	41	78653	48.337	ug/l	97
49) 1,4-Dioxane	6.69	88	14600	954.478	ug/l	97
51) 4-Methyl-2-Pentanone	8.24	43	431995	223.597	ug/l	97
52) Toluene	7.61	92	377458	48.381	ug/l	98
53) t-1,3-Dichloropropene	8.26	75	166993	47.859	ug/l	98
54) cis-1,3-Dichloropropene	7.28	75	246762	53.093	ug/l	98
55) 1,1,2-Trichloroethane	8.47	97	112728	49.178	ug/l	97
56) Ethyl methacrylate	8.61	69	118624	46.481	ug/l	98
57) 1,3-Dichloropropane	8.83	76	180658	47.218	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.27	63	99791	226.631	ug/l	98
59) 2-Hexanone	9.47	43	315321	232.830	ug/l	94
60) Dibromochloromethane	8.69	129	159993	50.147	ug/l	94
61) 1,2-Dibromoethane	8.97	107	121209	48.752	ug/l	95
64) Tetrachloroethene	8.13	164	166466	48.026	ug/l	97
65) Chlorobenzene	9.78	112	410934	47.755	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.92	131	173139	51.348	ug/l	99
67) Ethyl Benzene	9.89	91	703066	49.131	ug/l	97
68) m/p-Xylenes	10.11	106	546321	99.754	ug/l	97
69) o-Xylene	10.70	106	296852	50.797	ug/l	99
70) Styrene	10.77	104	412643	49.913	ug/l	99
71) Bromoform	10.75	173	88956	48.583	ug/l	95
73) Isopropylbenzene	11.11	105	837082	52.322	ug/l	95
74) N-amyl acetate	11.36	43	192600	50.155	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.68	83	141254	49.282	ug/l	95
76) 1,2,3-Trichloropropane	11.78	75	91272	46.837	ug/l	97
77) Bromobenzene	11.48	156	204226	51.671	ug/l	94
78) n-propylbenzene	11.58	91	936345	51.002	ug/l	99
79) 2-Chlorotoluene	11.70	91	523853	50.949	ug/l	92
80) 1,3,5-Trimethylbenzene	11.81	105	660446	51.651	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.86	75	49617m	53.110	ug/l	
82) 4-Chlorotoluene	11.89	91	531528	49.805	ug/l	99
83) tert-Butylbenzene	12.12	119	738045	52.112	ug/l	98
84) 1,2,4-Trimethylbenzene	12.19	105	654608	51.530	ug/l	96
85) sec-Butylbenzene	12.29	105	922714	50.381	ug/l	100
86) p-Isopropyltoluene	12.45	119	792771	51.577	ug/l	98
87) 1,3-Dichlorobenzene	12.46	146	388148	50.375	ug/l	98
88) 1,4-Dichlorobenzene	12.55	146	371287	50.104	ug/l	99
89) n-Butylbenzene	12.84	91	724394	49.910	ug/l	95
90) Hexachloroethane	12.90	117	198770	55.604	ug/l	93
91) 1,2-Dichlorobenzene	12.93	146	361099	49.270	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.63	75	22714	49.983	ug/l	74

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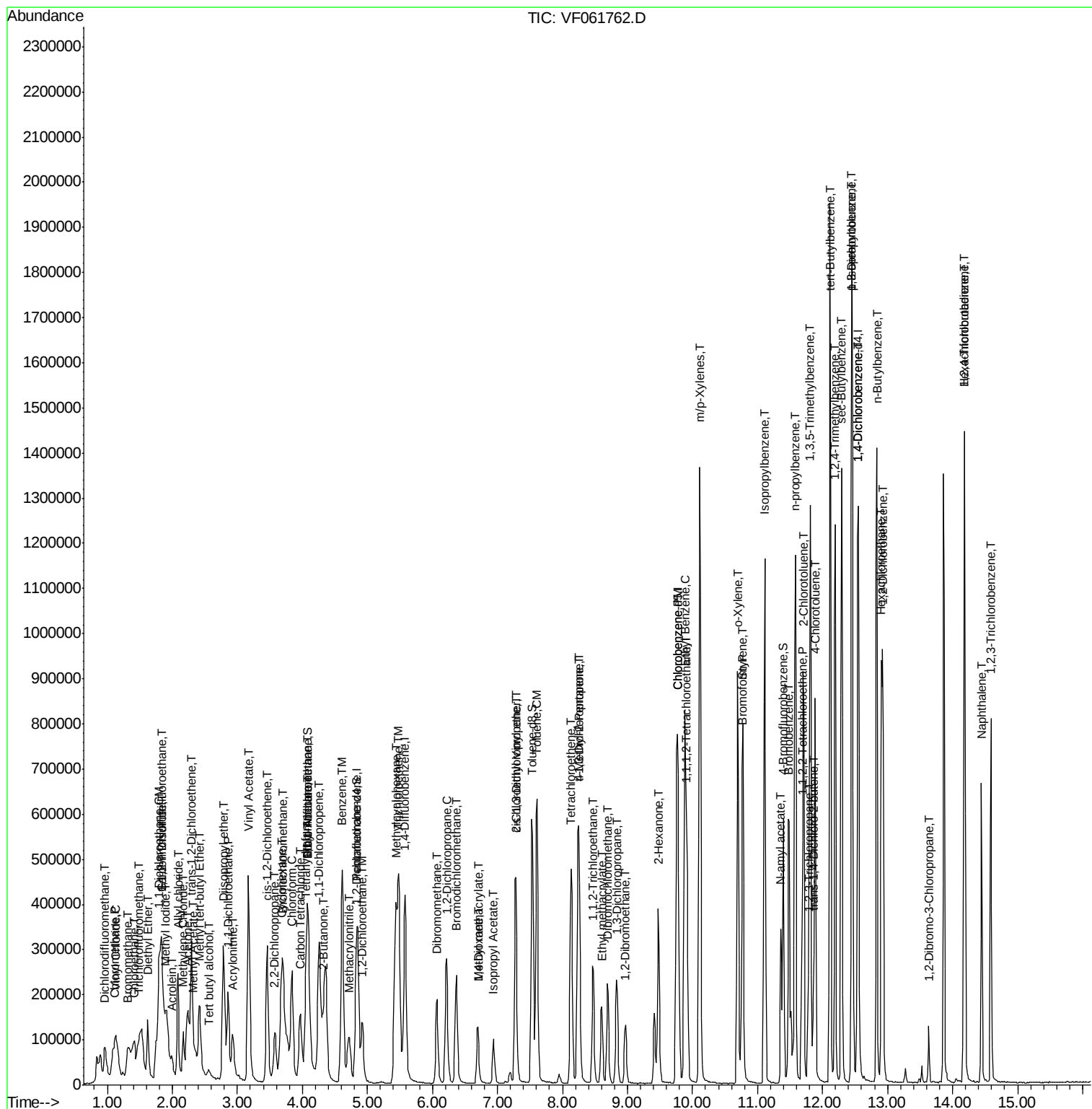
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	256375	48.804	ug/l	97
94) Hexachlorobutadiene	14.18	225	172172	53.068	ug/l	98
95) Naphthalene	14.44	128	477725	51.977	ug/l	98
96) 1,2,3-Trichlorobenzene	14.59	180	249432	51.732	ug/l	97

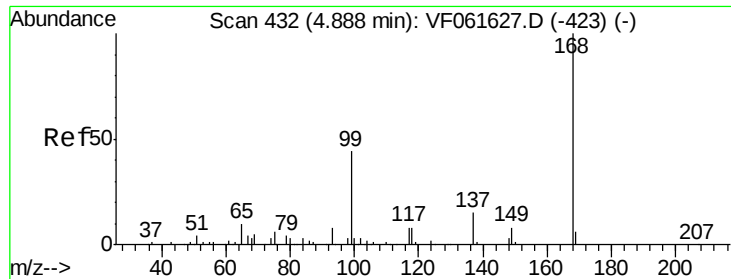
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.04 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

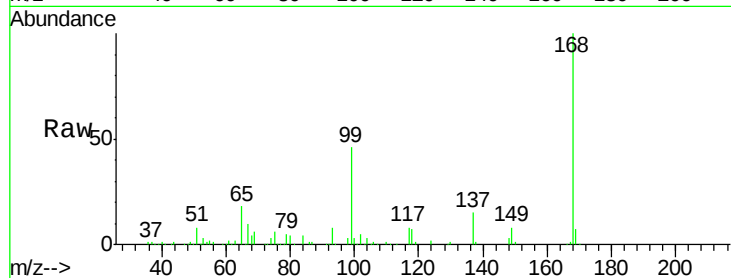
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:168 Resp: 334566

Ion Ratio Lower Upper

168 100

99 46.5 34.9 52.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

120000

100000

80000

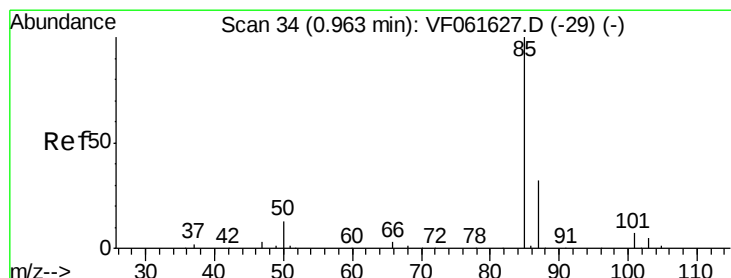
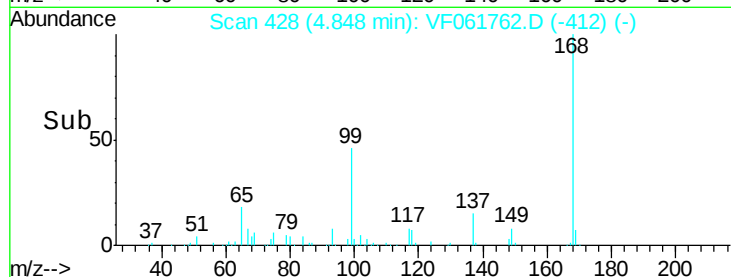
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 43.895 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.00 min

Lab File: VF061762.D

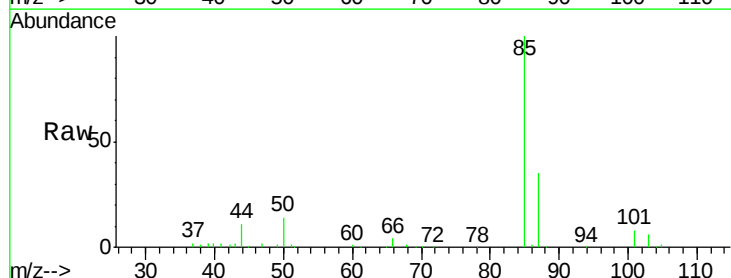
Acq: 27 Feb 2019 12:53

Tgt Ion: 85 Resp: 168651

Ion Ratio Lower Upper

85 100

87 34.9 16.1 48.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

50000

40000

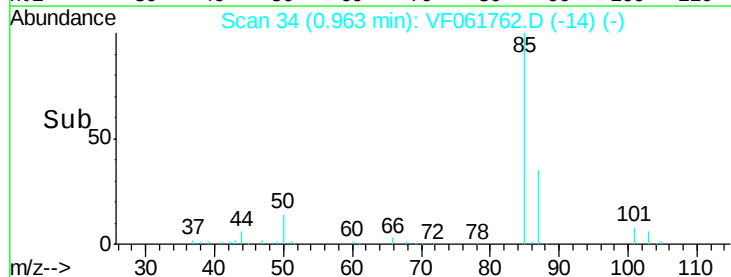
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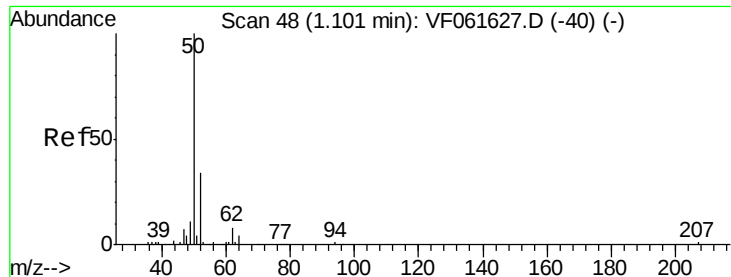
20000

10000

0

Time-->





#3

Chloromethane

Concen: 43.861 ug/l

RT: 1.10 min Scan# 48

Delta R.T. -0.00 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

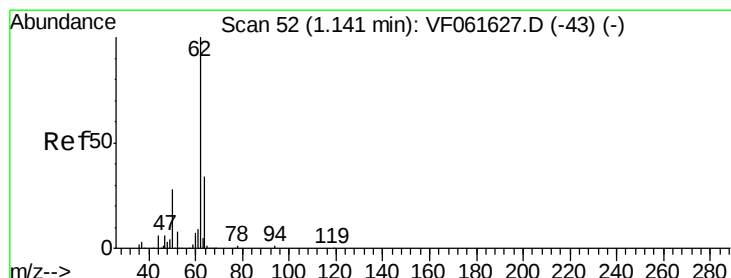
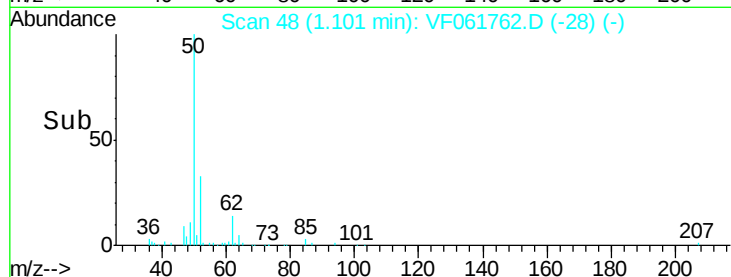
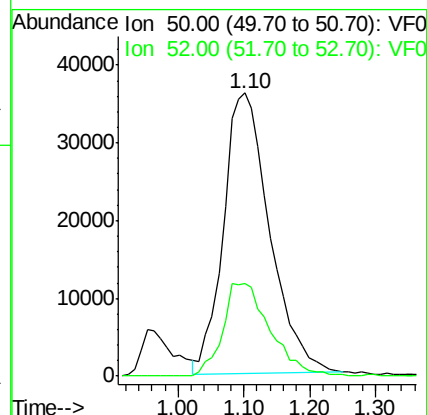
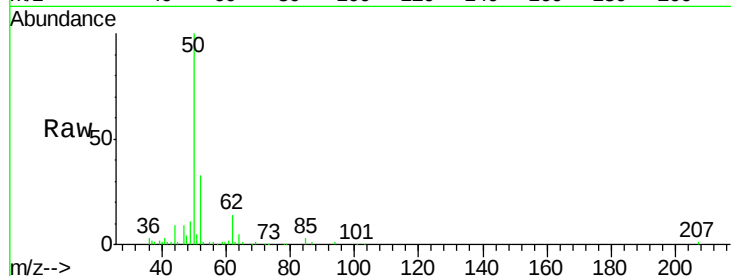
VSTDCCC050

Tot Ion: 50 Resp: 176813

Ion Ratio Lower Upper

50 100

52 32.7 26.2 39.4



#4

Vinyl Chloride

Concen: 44.984 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.00 min

Lab File: VF061762.D

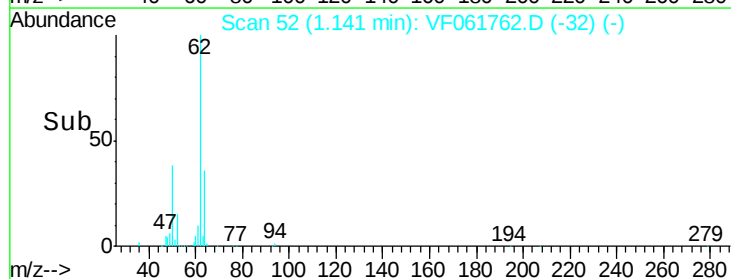
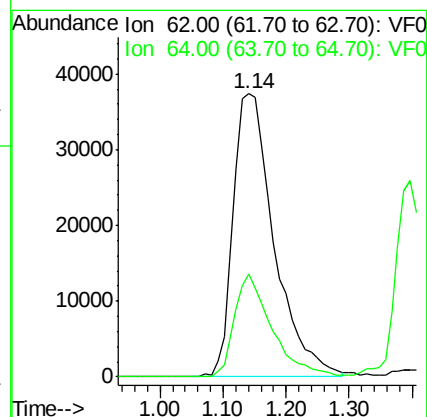
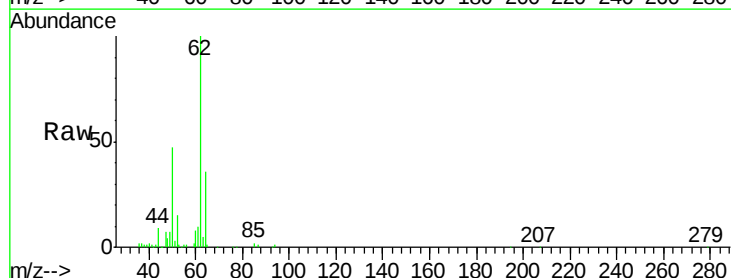
Acq: 27 Feb 2019 12:53

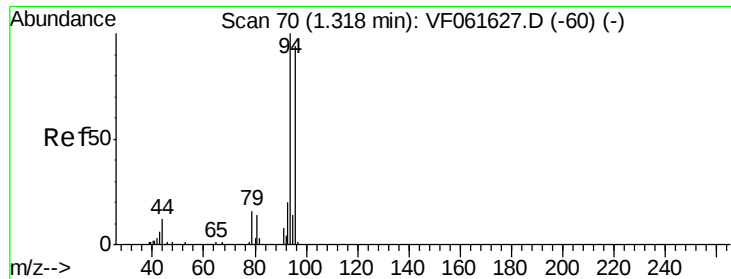
Tgt Ion: 62 Resp: 168582

Ion Ratio Lower Upper

62 100

64 36.4 27.5 41.3





#5

Bromomethane

Concen: 49.583 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.00 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

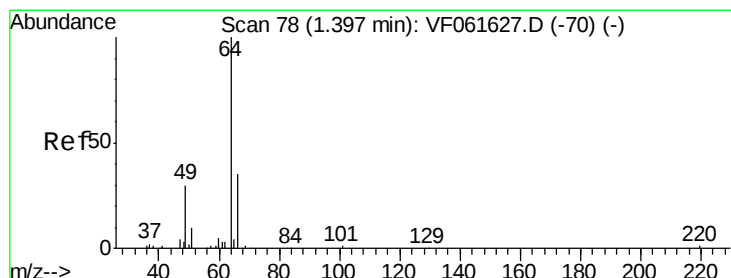
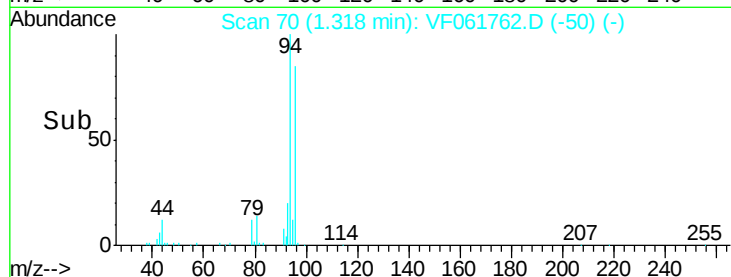
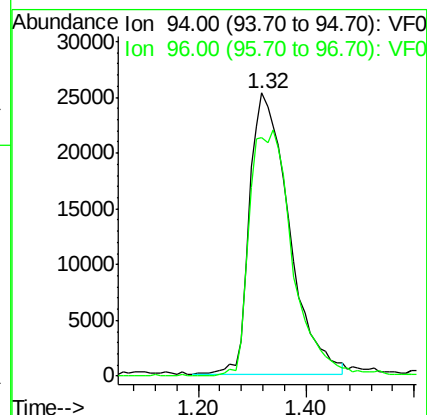
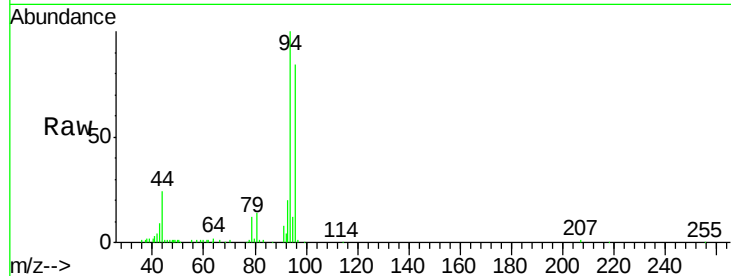
VSTDCCC050

Tot Ion: 94 Resp: 127886

Ion Ratio Lower Upper

94 100

96 84.5 74.6 112.0



#6

Chloroethane

Concen: 45.859 ug/l

RT: 1.40 min Scan# 78

Delta R.T. -0.00 min

Lab File: VF061762.D

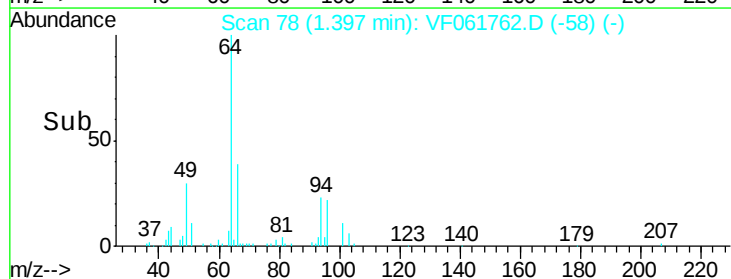
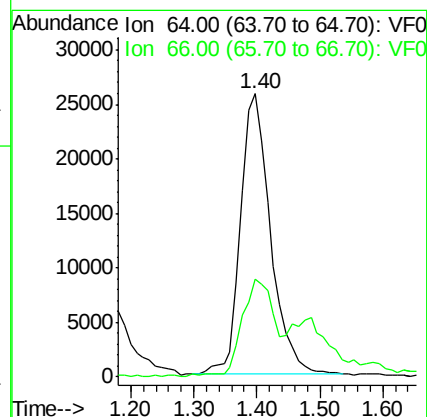
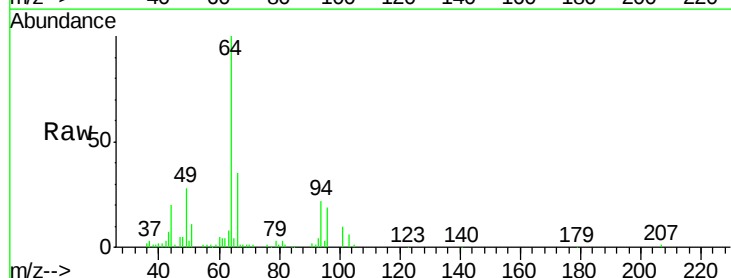
Acq: 27 Feb 2019 12:53

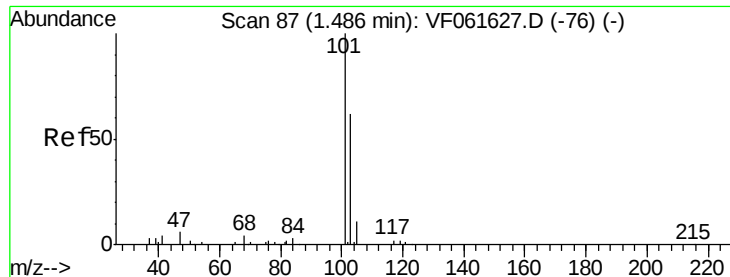
Tgt Ion: 64 Resp: 84694

Ion Ratio Lower Upper

64 100

66 34.7 27.9 41.9





#7

Trichlorofluoromethane

Concen: 48.628 ug/l

RT: 1.48 min Scan# 86

Delta R.T. -0.01 min

Lab File: VF061762.D

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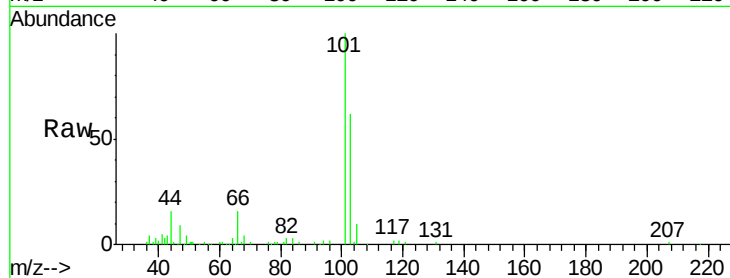
VSTDCCC050

Tot Ion:101 Resp: 219798

Ion Ratio Lower Upper

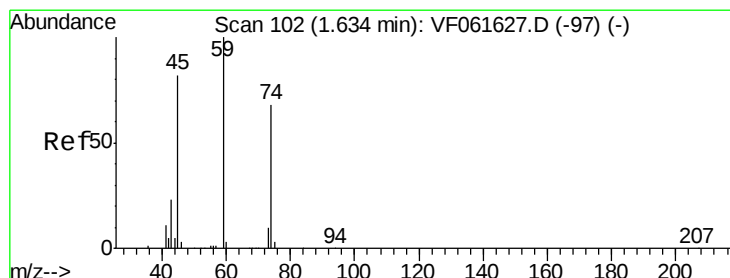
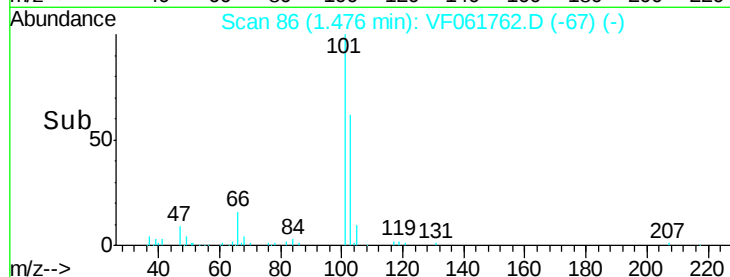
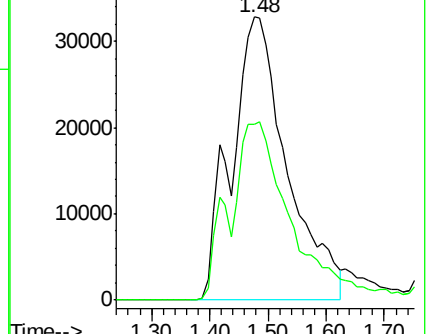
101 100

103 62.2 49.3 73.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 44.193 ug/l

RT: 1.62 min Scan# 101

Delta R.T. -0.01 min

Lab File: VF061762.D

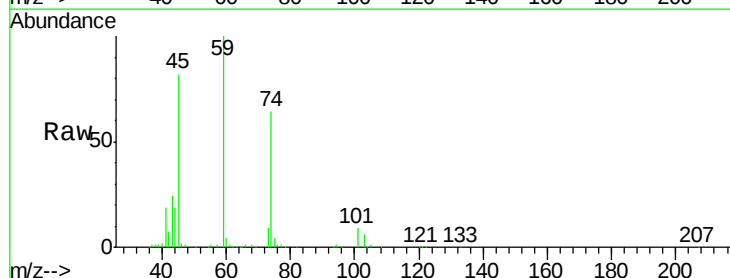
Acq: 27 Feb 2019 12:53

Tgt Ion: 74 Resp: 50340

Ion Ratio Lower Upper

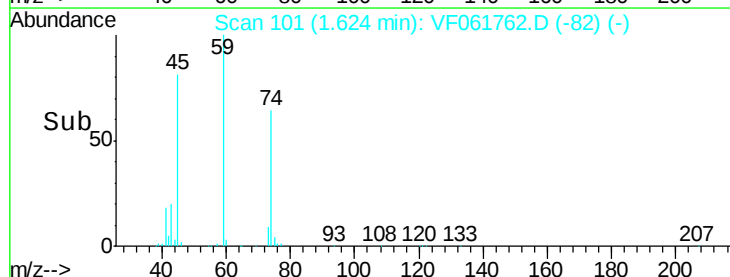
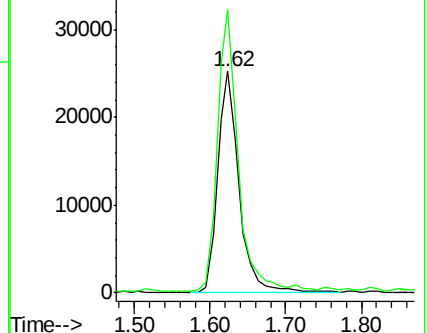
74 100

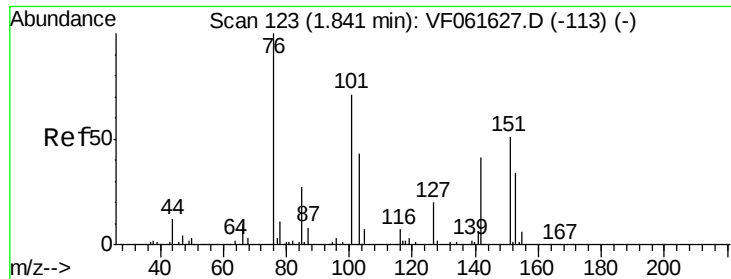
45 127.6 60.8 182.3



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.095 ug/l

RT: 1.84 min Scan# 123

Delta R.T. -0.00 min

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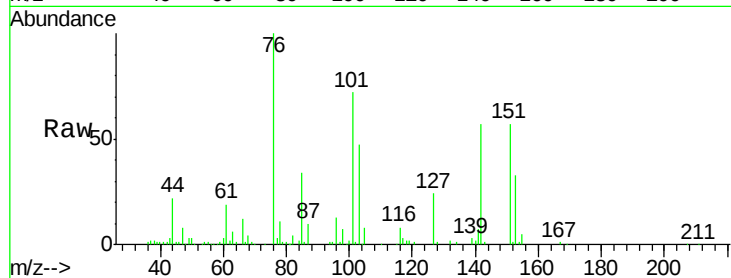
Tot Ion:101 Resp: 153566

Ion Ratio Lower Upper

101 100

85 46.9 29.8 44.6#

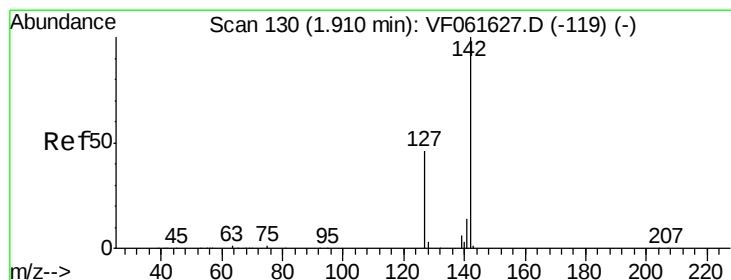
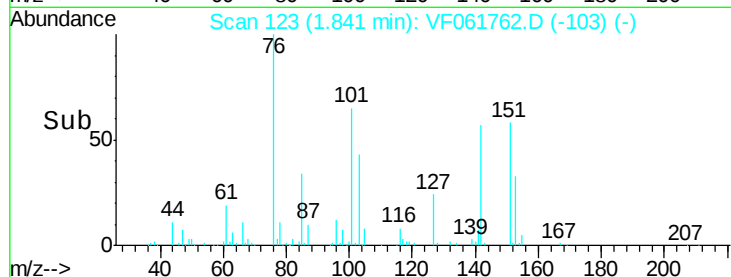
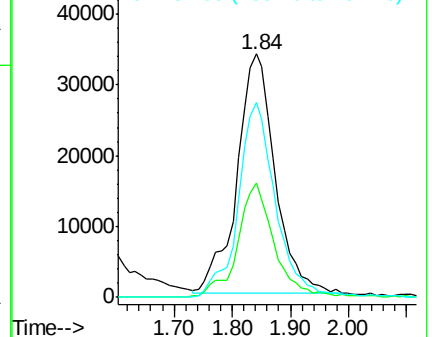
151 80.2 56.3 84.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 48.551 ug/l m

RT: 1.91 min Scan# 130

Delta R.T. -0.00 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

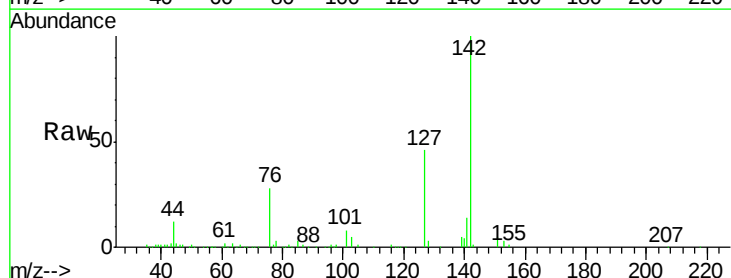
Tgt Ion:142 Resp: 302416

Ion Ratio Lower Upper

142 100

127 46.1 36.6 55.0

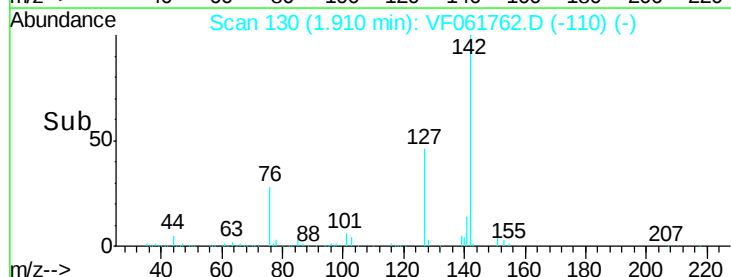
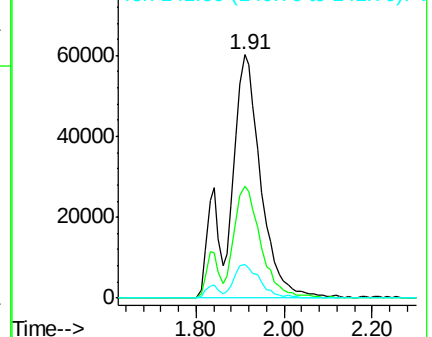
141 13.8 11.0 16.6

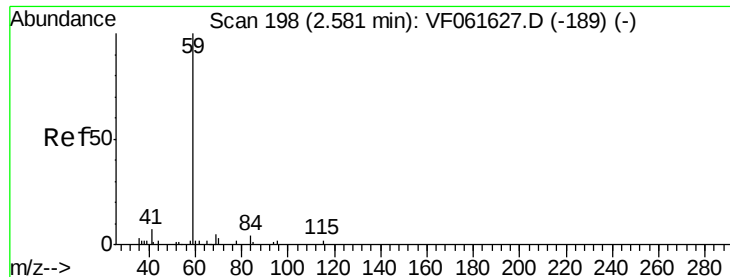


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



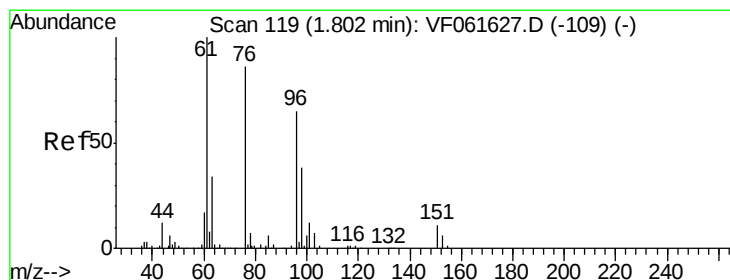
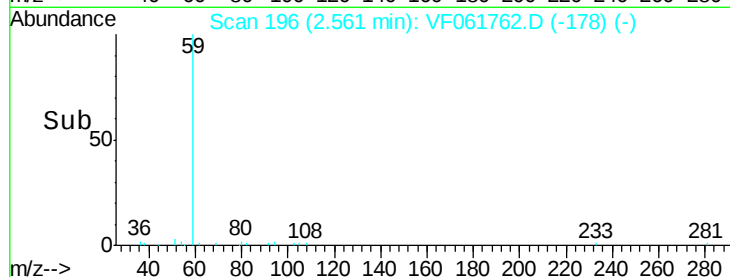
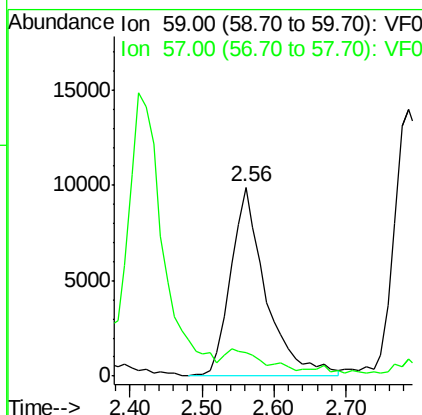
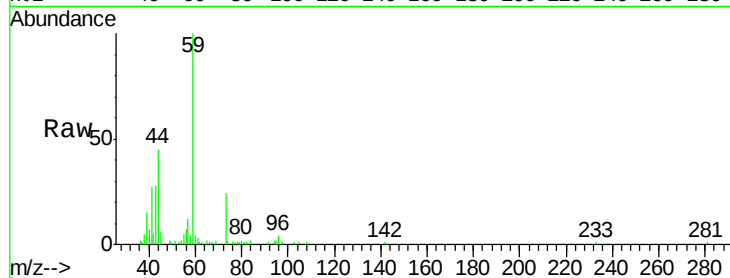


#11

Tert butyl alcohol
 Concen: 235.758 ug/l
 RT: 2.56 min Scan# 196
 Delta R.T. -0.02 min
 Lab File: VF061762.D
 Acq: 27 Feb 2019 12:53

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

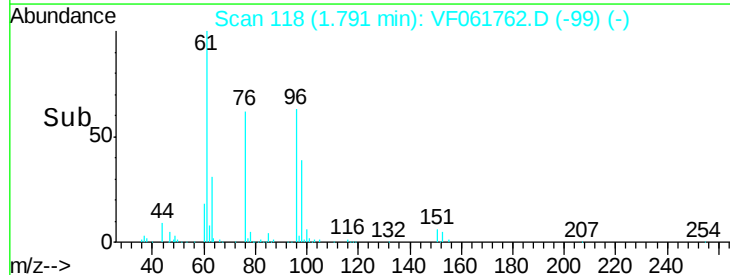
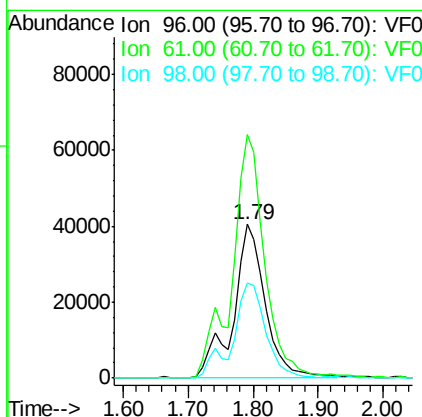
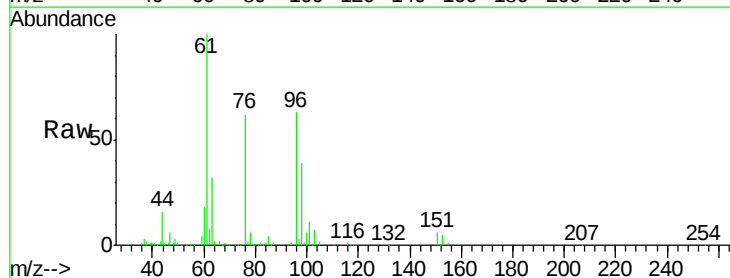
Tot Ion: 59 Resp: 33475
 Ion Ratio Lower Upper
 59 100
 57 12.4 12.5 18.7#

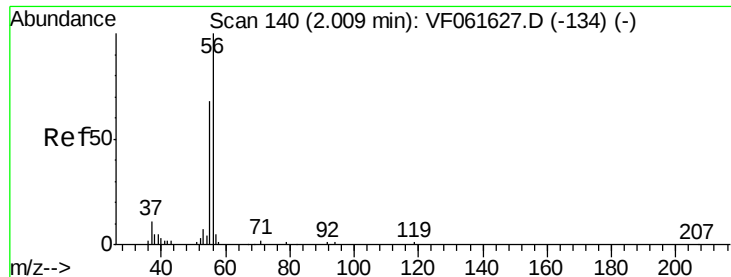


#12

1,1-Dichloroethene
 Concen: 48.833 ug/l m
 RT: 1.79 min Scan# 118
 Delta R.T. -0.01 min
 Lab File: VF061762.D
 Acq: 27 Feb 2019 12:53

Tgt Ion: 96 Resp: 139999
 Ion Ratio Lower Upper
 96 100
 61 158.7 122.6 184.0
 98 62.1 47.2 70.8





#13

Acrolein

Concen: 242.426 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.02 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

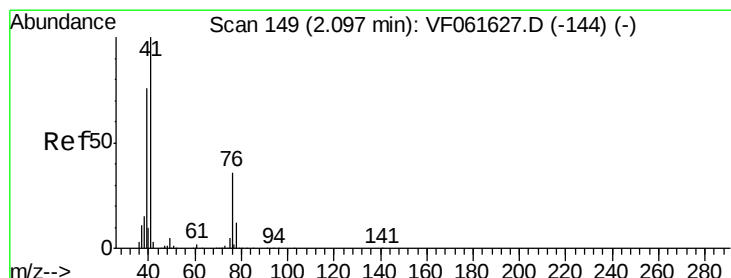
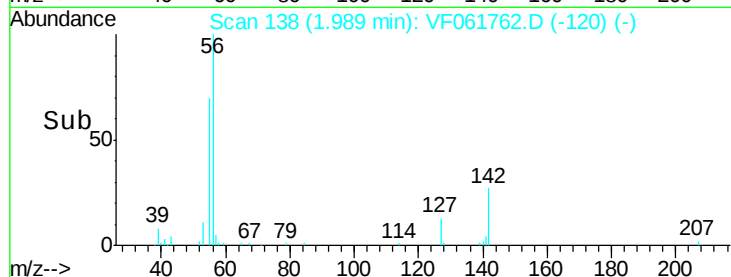
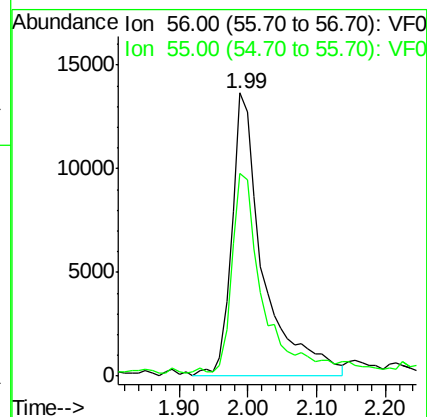
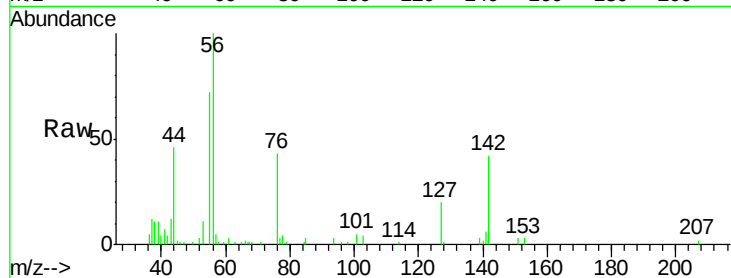
VSTDCCC050

Tot Ion: 56 Resp: 43262

Ion Ratio Lower Upper

56 100

55 71.6 55.0 82.6



#14

Allyl chloride

Concen: 45.760 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.01 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

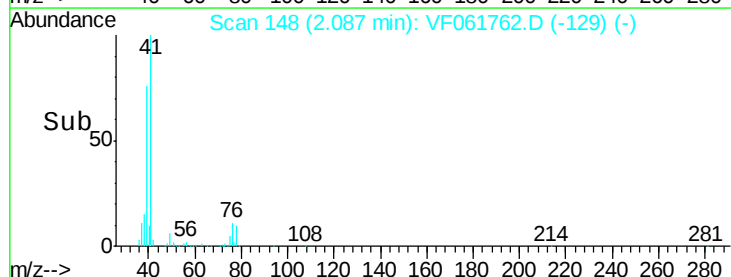
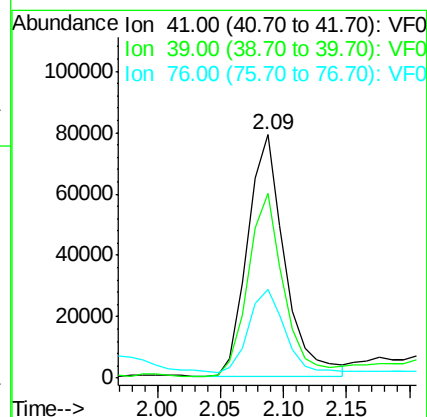
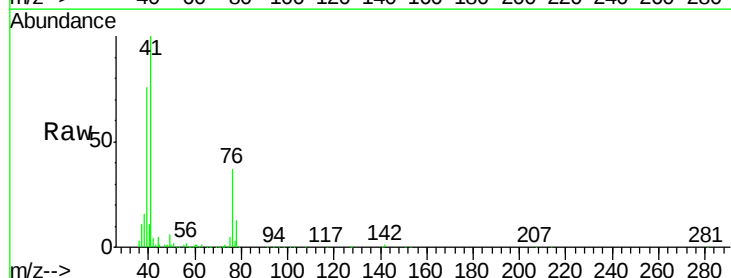
Tgt Ion: 41 Resp: 160984

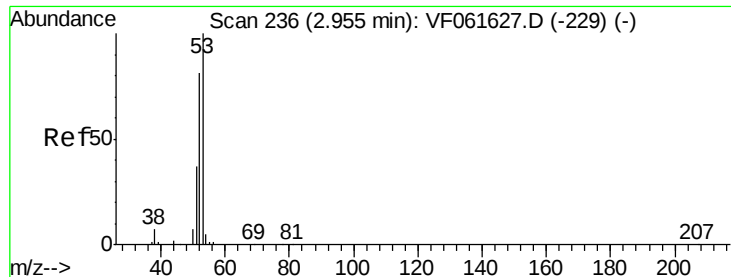
Ion Ratio Lower Upper

41 100

39 76.1 61.6 92.4

76 36.6 30.3 45.5





#15

Acrylonitrile

Concen: 204.992 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.03 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

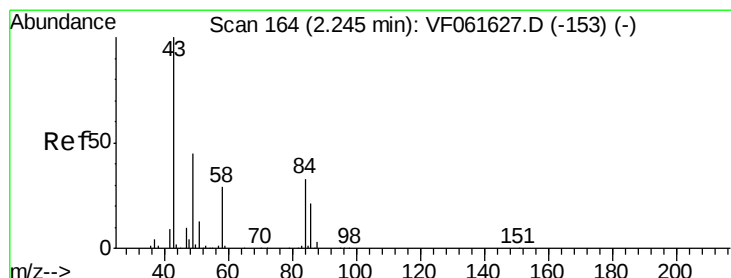
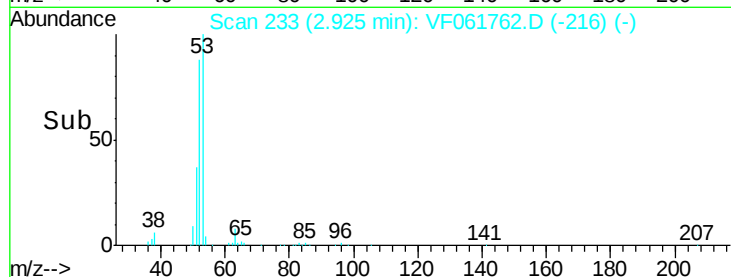
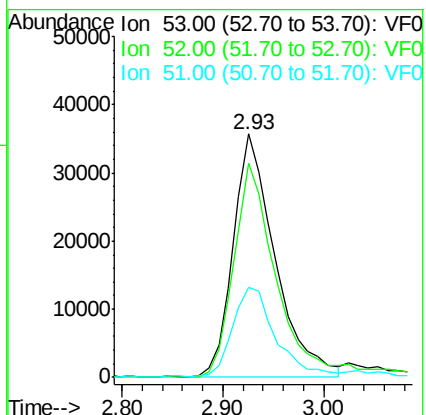
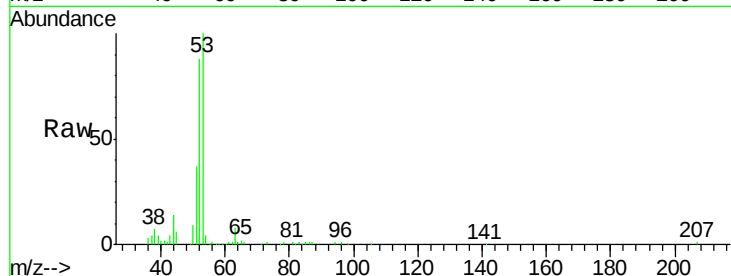
Tot Ion: 53 Resp: 103242

Ion Ratio Lower Upper

53 100

52 88.1 64.6 97.0

51 37.0 29.8 44.8



#16

Acetone

Concen: 275.630 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.02 min

Lab File: VF061762.D

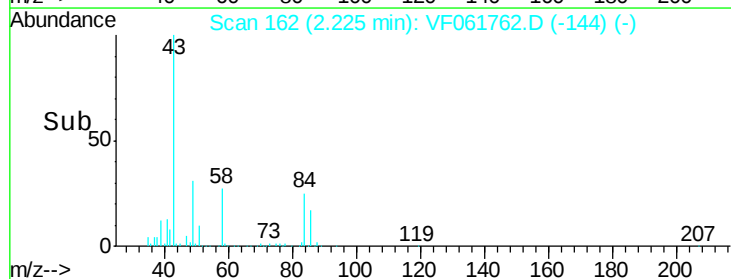
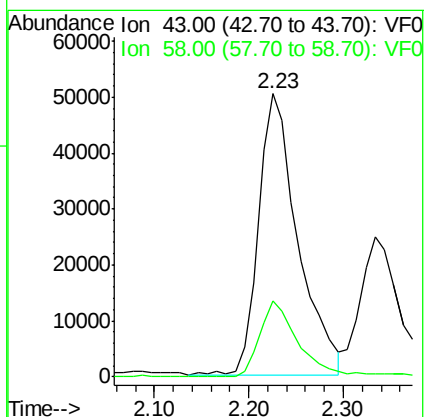
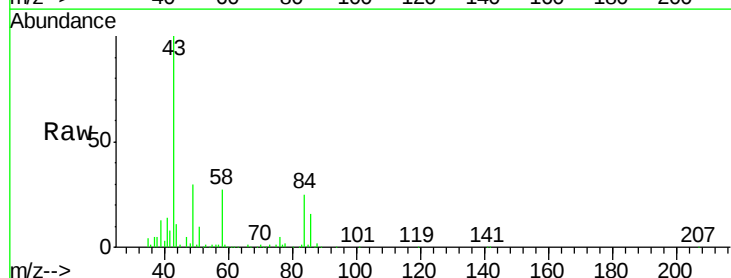
Acq: 27 Feb 2019 12:53

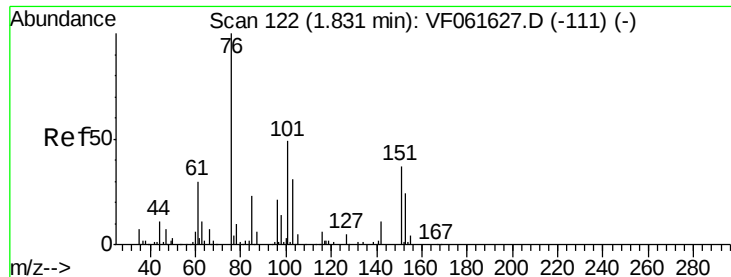
Tgt Ion: 43 Resp: 145090

Ion Ratio Lower Upper

43 100

58 26.8 22.9 34.3





#17

Carbon Disulfide

Concen: 46.047 ug/l m

RT: 1.82 min Scan# 121

Delta R.T. -0.01 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

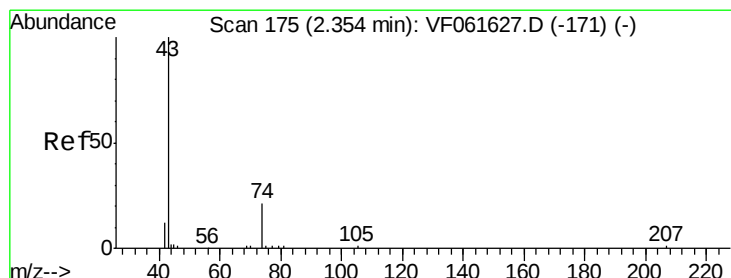
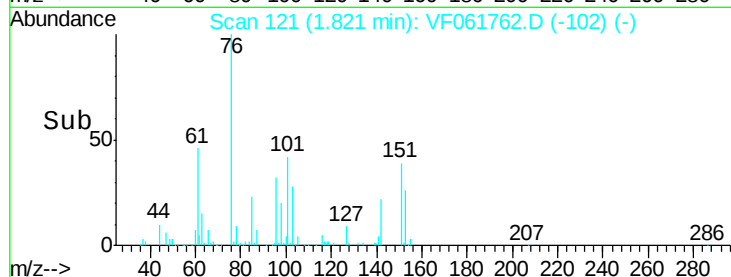
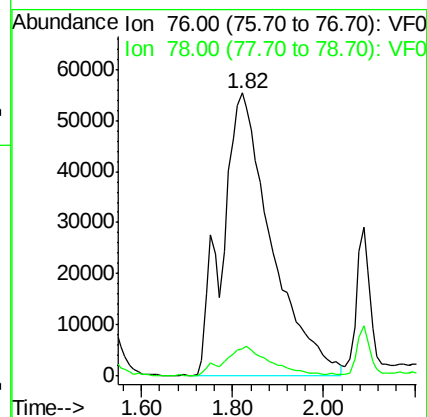
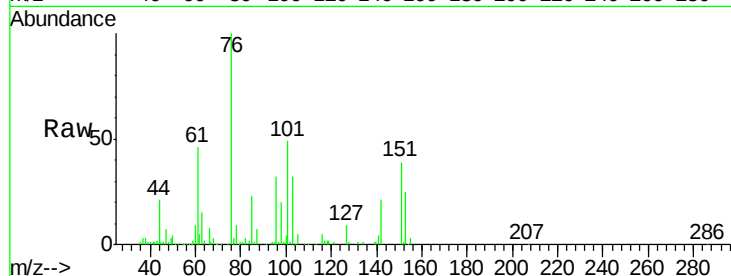
VSTDCCC050

Tot Ion: 76 Resp: 414962

Ion Ratio Lower Upper

76 100

78 9.5 7.9 11.9



#18

Methyl Acetate

Concen: 51.687 ug/l

RT: 2.33 min Scan# 173

Delta R.T. -0.02 min

Lab File: VF061762.D

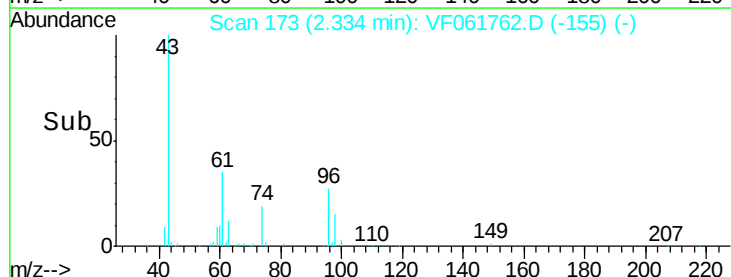
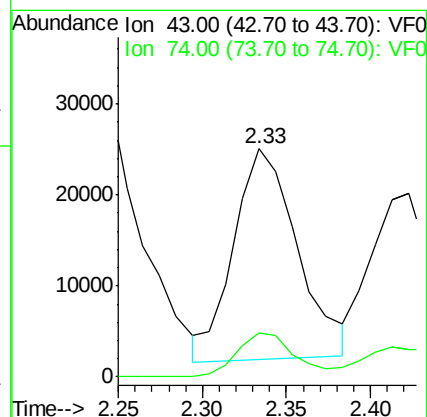
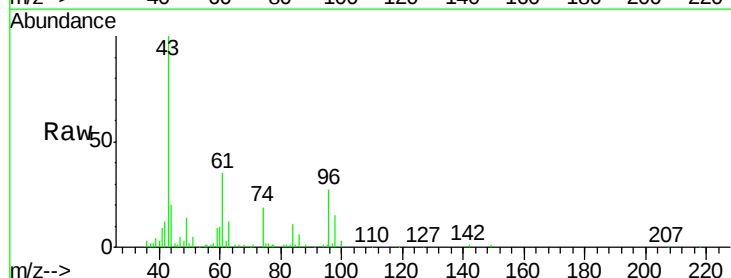
Acq: 27 Feb 2019 12:53

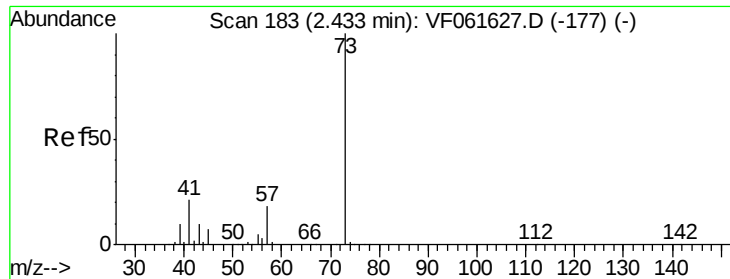
Tgt Ion: 43 Resp: 61292

Ion Ratio Lower Upper

43 100

74 19.4 14.6 21.8



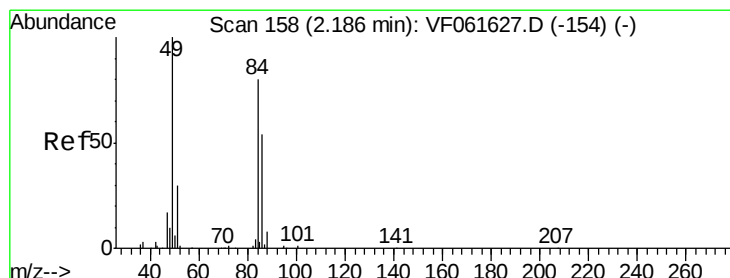
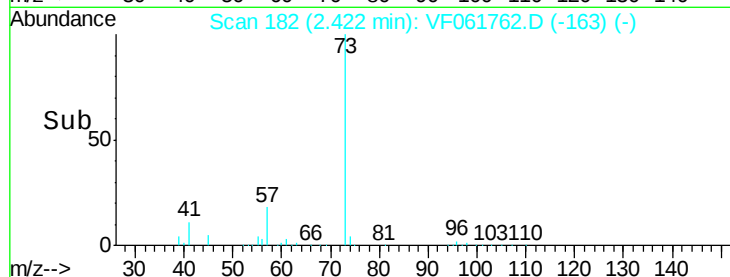
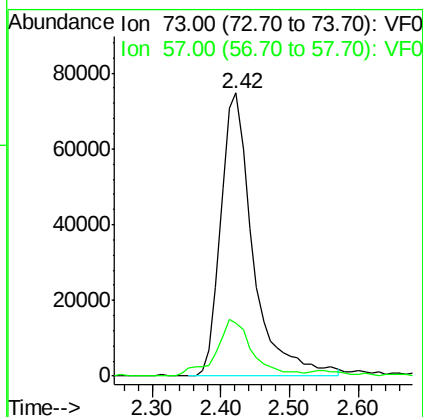
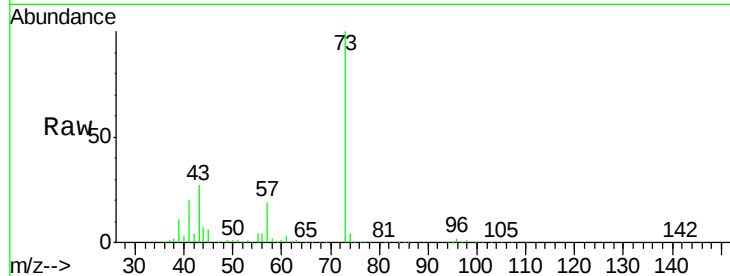


#19

Methyl tert-butyl Ether
 Concen: 49.780 ug/l
 RT: 2.42 min Scan# 182
 Delta R.T. -0.01 min
 Lab File: VF061762.D
 Acq: 27 Feb 2019 12:53

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

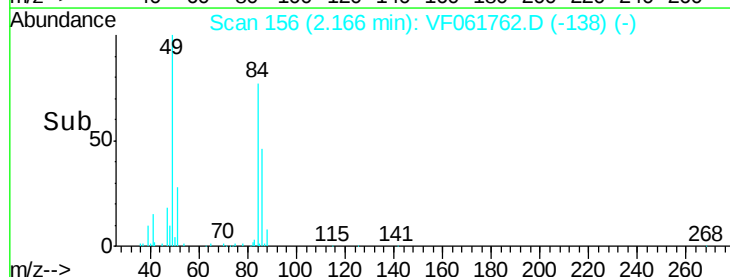
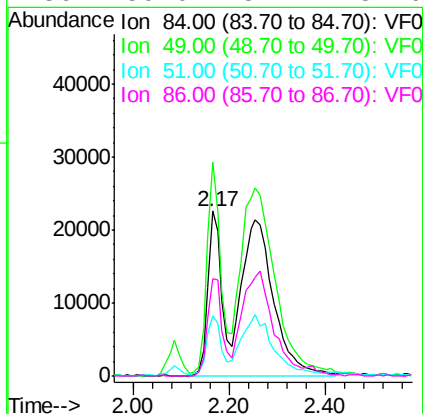
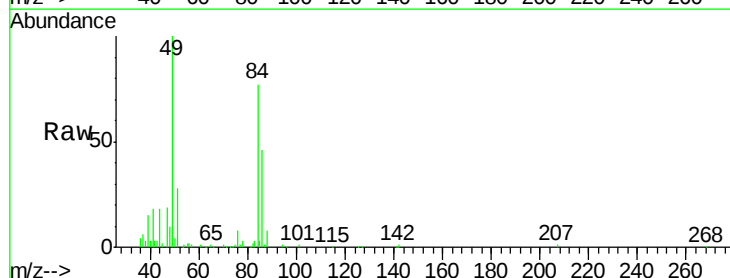
Tot Ion: 73 Resp: 243905
 Ion Ratio Lower Upper
 73 100
 57 18.9 15.8 23.8

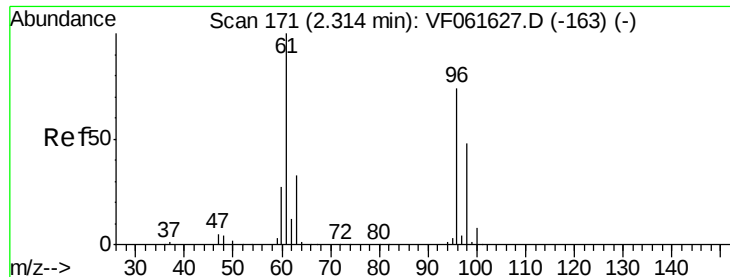


#20

Methylene Chloride
 Concen: 51.118 ug/l m
 RT: 2.17 min Scan# 156
 Delta R.T. -0.02 min
 Lab File: VF061762.D
 Acq: 27 Feb 2019 12:53

Tgt Ion: 84 Resp: 144028
 Ion Ratio Lower Upper
 84 100
 49 129.4 101.8 152.8
 51 36.5 31.1 46.7
 86 59.0 54.4 81.6





#21

trans-1,2-Dichloroethene

Concen: 45.899 ug/l m

RT: 2.29 min Scan# 169

Delta R.T. -0.02 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

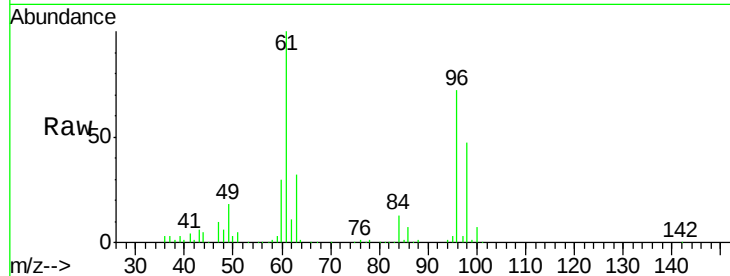
Tot Ion: 96 Resp: 143045

Ion Ratio Lower Upper

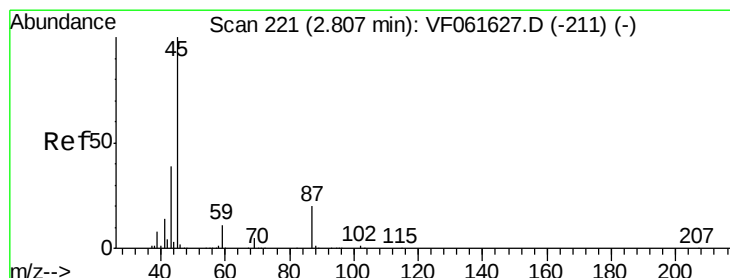
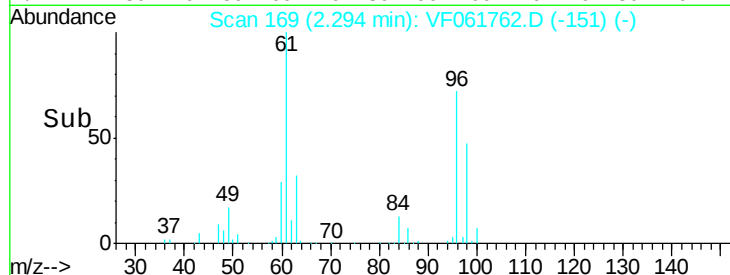
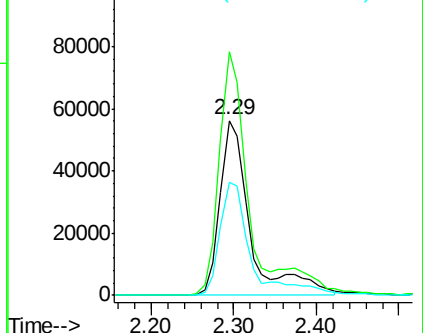
96 100

61 139.4 108.2 162.4

98 65.0 52.2 78.2



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



#22

Diisopropyl ether

Concen: 47.666 ug/l

RT: 2.79 min Scan# 219

Delta R.T. -0.02 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

Tgt Ion: 45 Resp: 402522

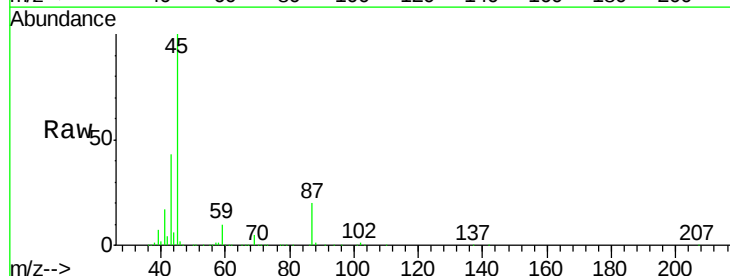
Ion Ratio Lower Upper

45 100

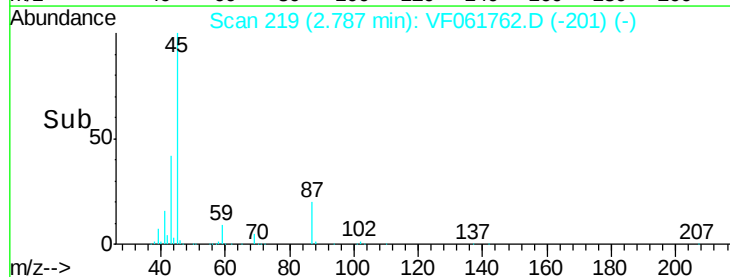
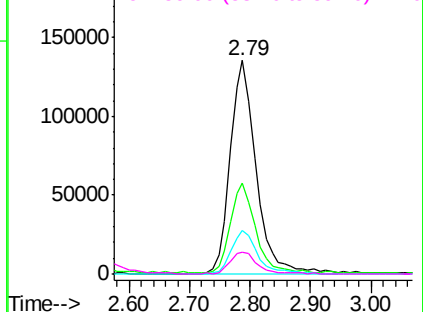
43 42.7 31.4 47.2

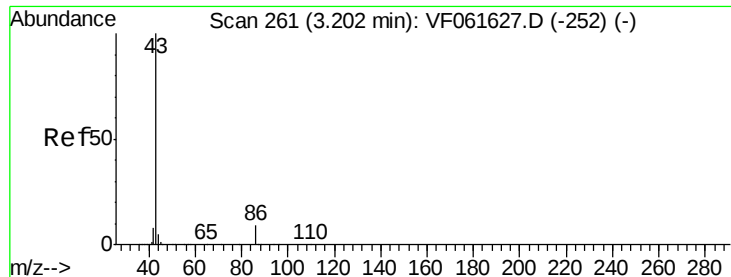
87 20.4 16.3 24.5

59 10.3 8.7 13.1



Abundance Ion 45.00 (44.70 to 45.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 87.00 (86.70 to 87.70): VF0
Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 230.634 ug/l

RT: 3.17 min Scan# 258

Delta R.T. -0.03 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

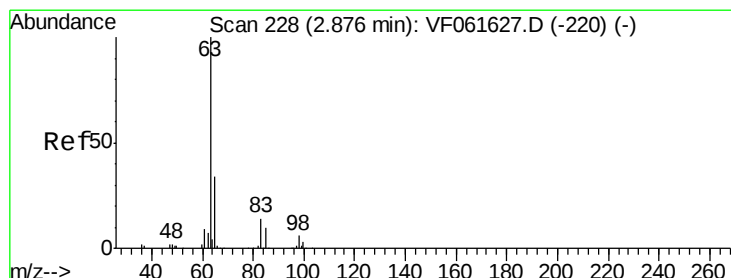
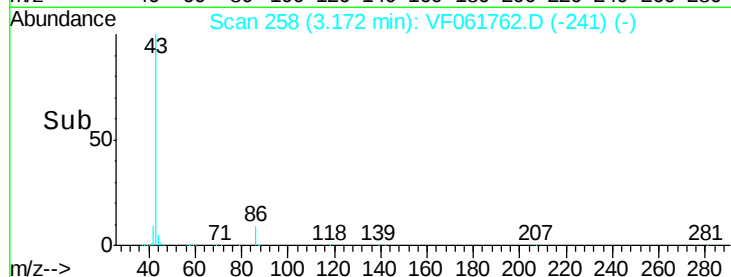
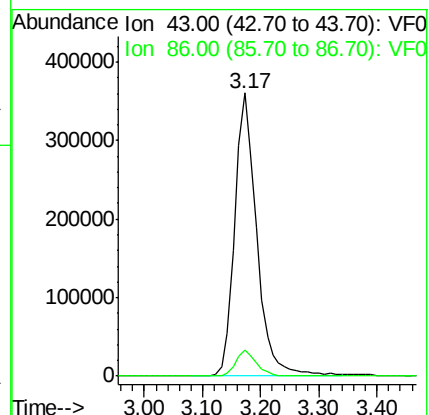
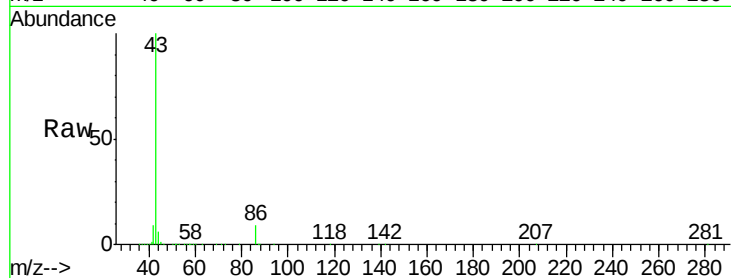
VSTDCCC050

Tot Ion: 43 Resp: 951278

Ion Ratio Lower Upper

43 100

86 9.1 7.5 11.3



#24

1,1-Dichloroethane

Concen: 45.933 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.02 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

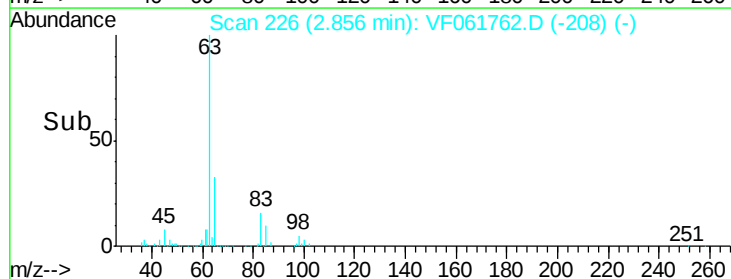
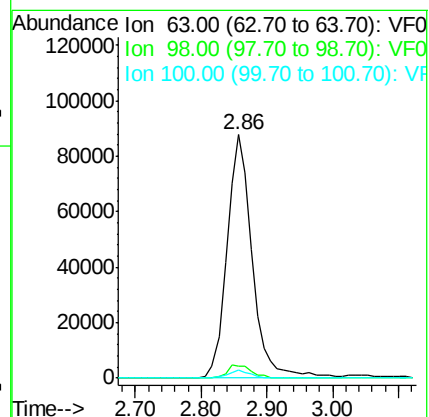
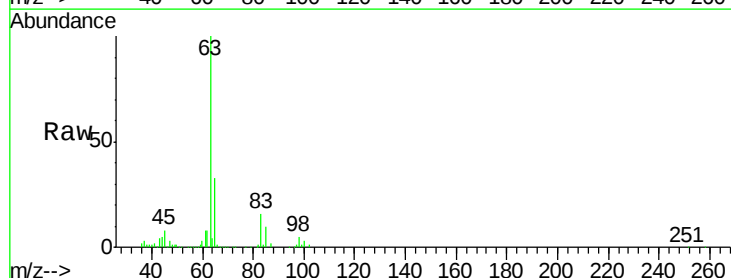
Tgt Ion: 63 Resp: 234736

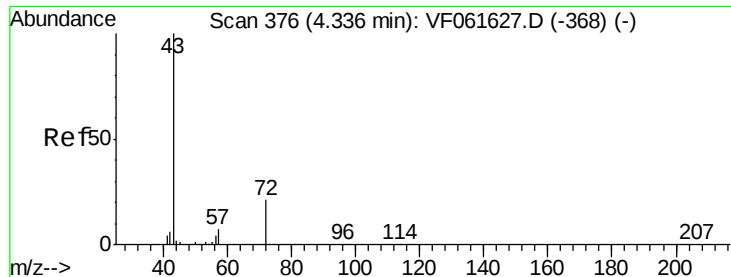
Ion Ratio Lower Upper

63 100

98 5.0 2.8 8.3

100 3.3 1.8 5.4





#25

2-Butanone

Concen: 242.578 ug/l

RT: 4.31 min Scan# 373

Delta R.T. -0.03 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

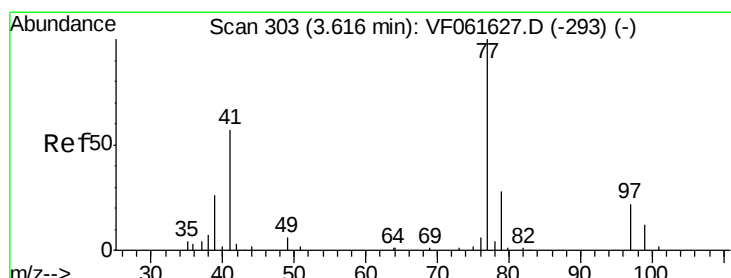
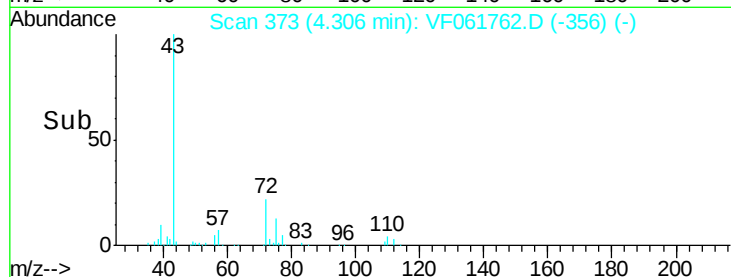
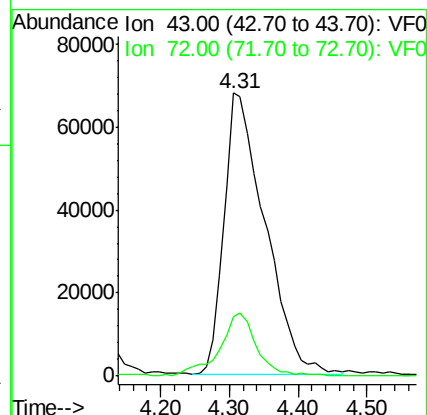
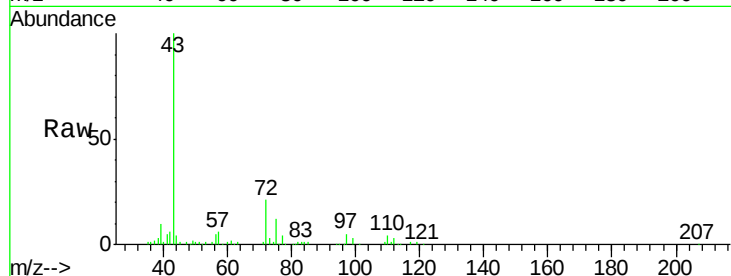
VSTDCCC050

Tot Ion: 43 Resp: 278919

Ion Ratio Lower Upper

43 100

72 21.1 17.1 25.7



#26

2,2-Dichloropropane

Concen: 52.655 ug/l

RT: 3.58 min Scan# 299

Delta R.T. -0.04 min

Lab File: VF061762.D

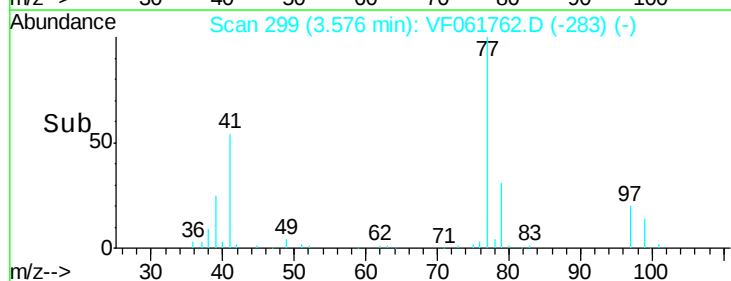
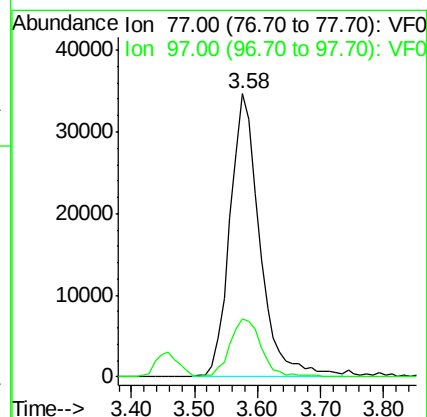
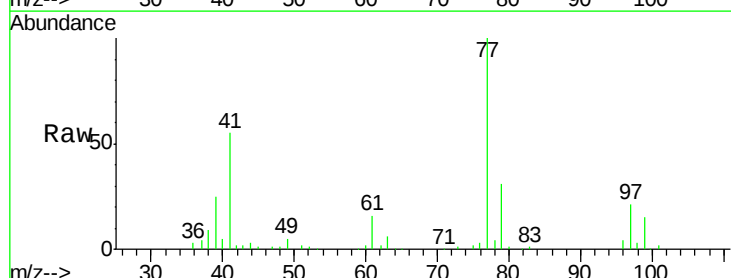
Acq: 27 Feb 2019 12:53

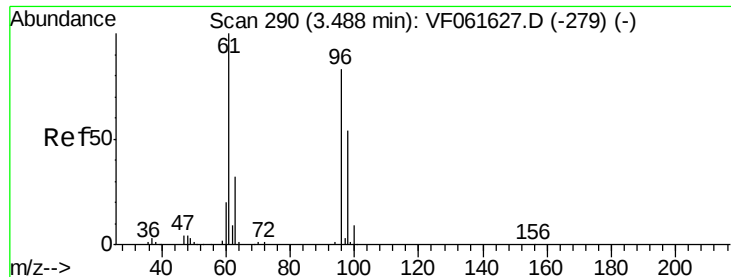
Tgt Ion: 77 Resp: 113980

Ion Ratio Lower Upper

77 100

97 20.7 11.7 35.0



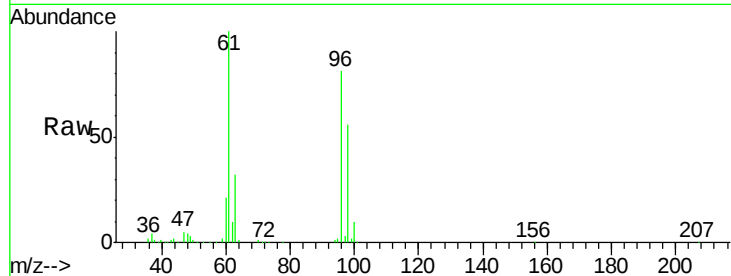


#27

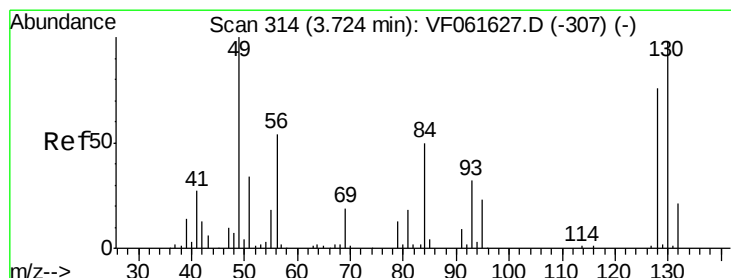
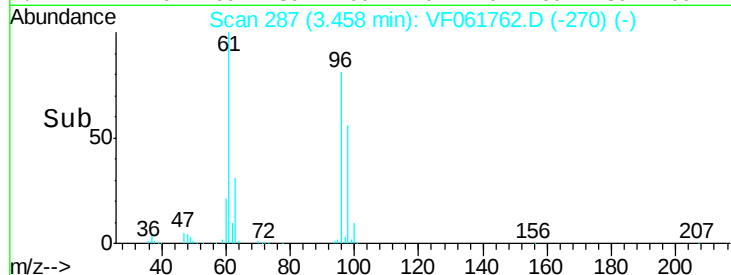
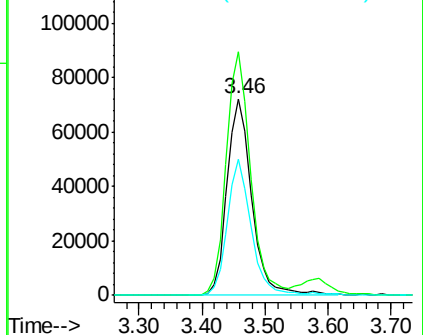
cis-1,2-Dichloroethene
Concen: 48.118 ug/l
RT: 3.46 min Scan# 287
Delta R.T. -0.03 min
Lab File: VF061762.D
Acq: 27 Feb 2019 12:53

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
96	100		
61	124.0	0.0	241.6
98	69.5	0.0	130.2



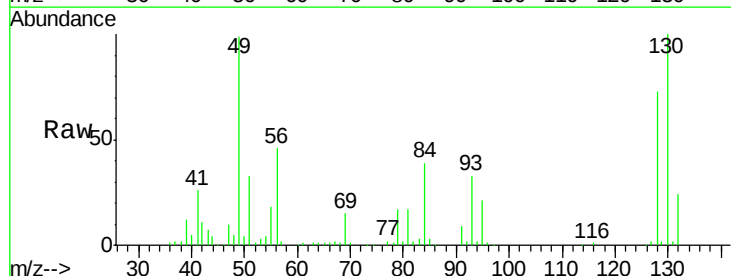
Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



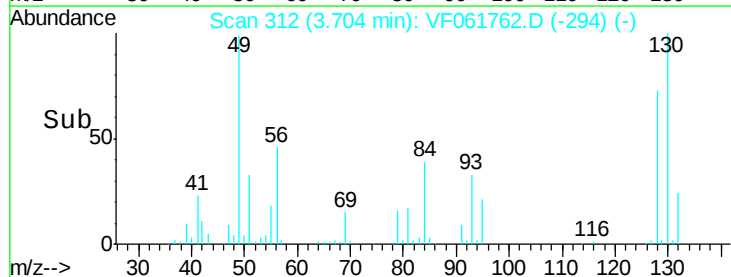
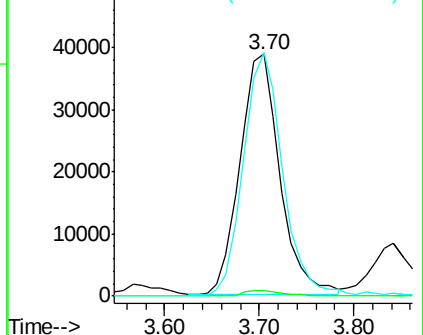
#28

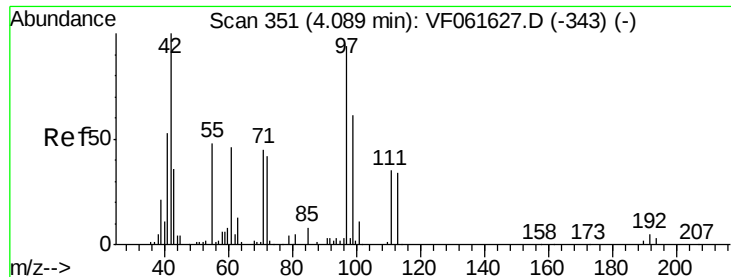
Bromochloromethane
Concen: 46.310 ug/l
RT: 3.70 min Scan# 312
Delta R.T. -0.02 min
Lab File: VF061762.D
Acq: 27 Feb 2019 12:53

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.4	0.0	3.4
130	100.7	77.7	116.5



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

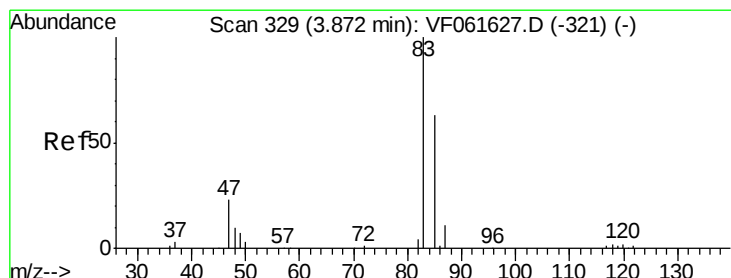
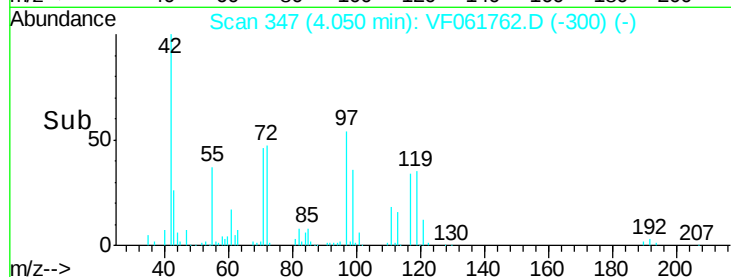
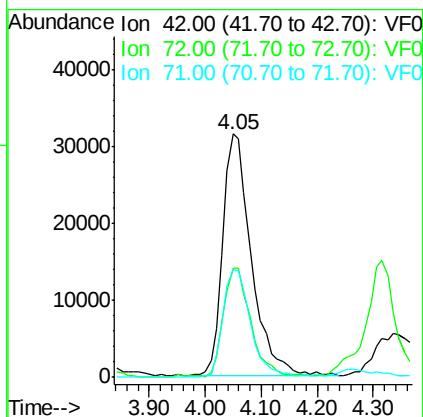
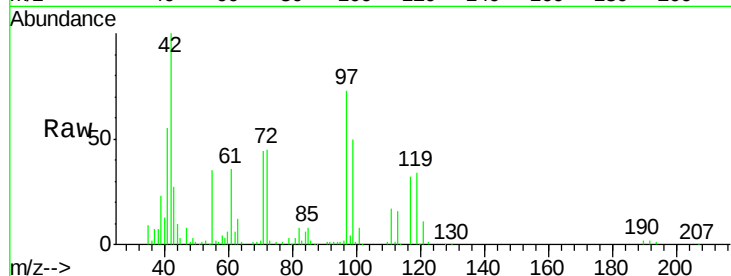




#29
Tetrahydrofuran
Concen: 213.531 ug/l
RT: 4.05 min Scan# 347
Delta R.T. -0.04 min
Lab File: VF061762.D
Acq: 27 Feb 2019 12:53

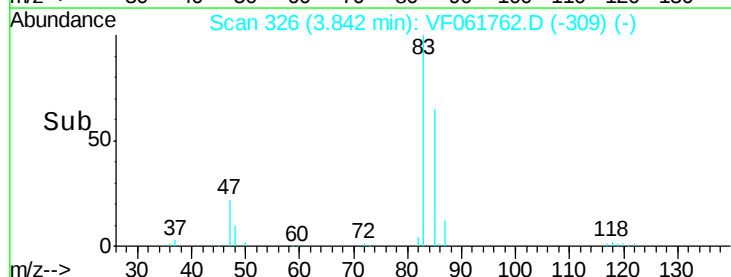
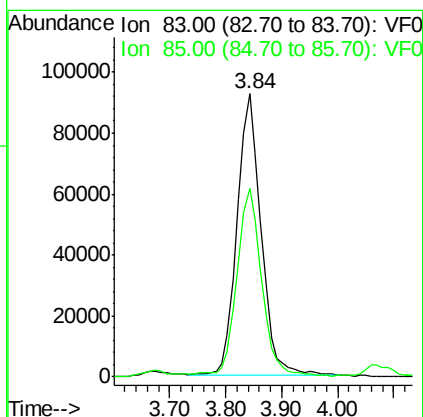
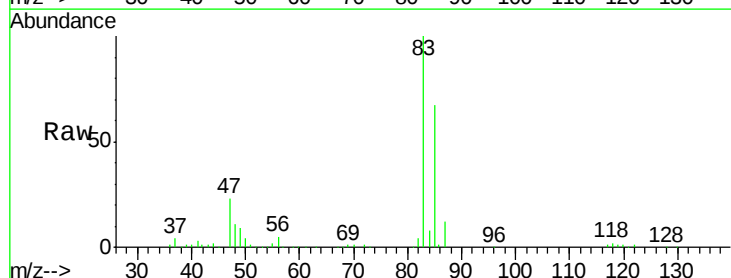
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

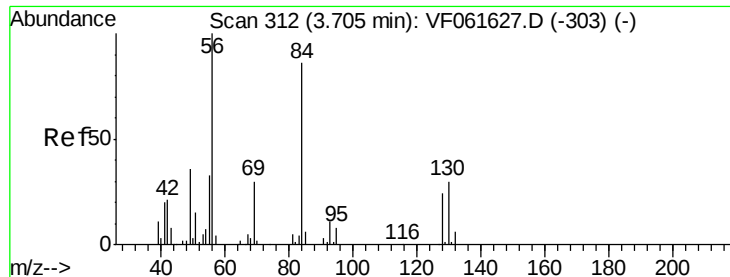
Tot Ion: 42 Resp: 111591
Ion Ratio Lower Upper
42 100
72 44.3 35.2 52.8
71 43.3 32.9 49.3



#30
Chloroform
Concen: 47.615 ug/l
RT: 3.84 min Scan# 326
Delta R.T. -0.03 min
Lab File: VF061762.D
Acq: 27 Feb 2019 12:53

Tgt Ion: 83 Resp: 276723
Ion Ratio Lower Upper
83 100
85 66.5 51.1 76.7





#31

Cyclohexane

Concen: 44.282 ug/l m

RT: 3.67 min Scan# 309

Delta R.T. -0.03 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

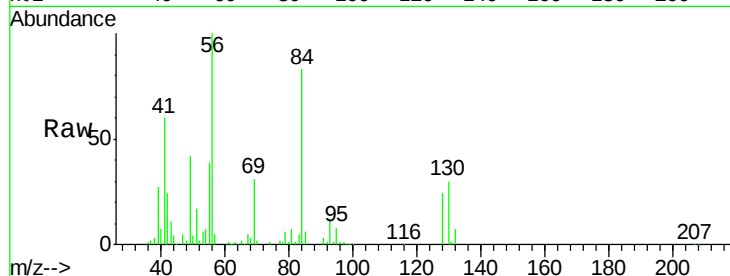
Tot Ion: 56 Resp: 244979

Ion Ratio Lower Upper

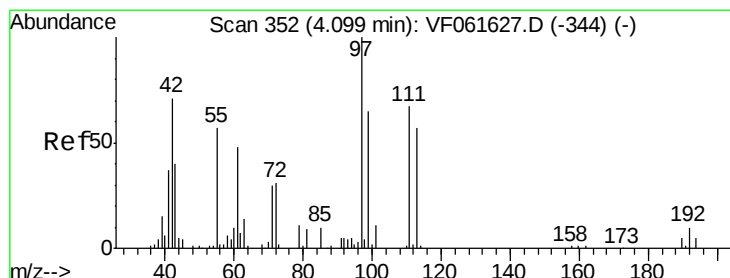
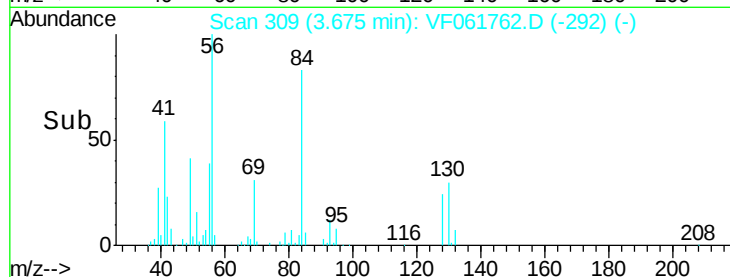
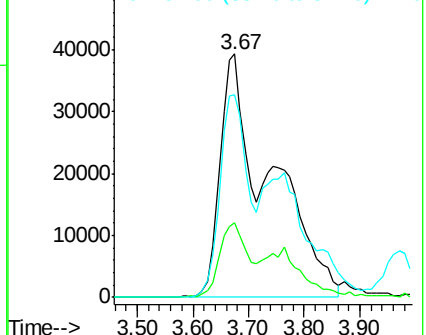
56 100

69 30.8 23.8 35.8

84 83.4 68.6 103.0



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



#32

1,1,1-Trichloroethane

Concen: 55.512 ug/l m

RT: 4.07 min Scan# 349

Delta R.T. -0.03 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

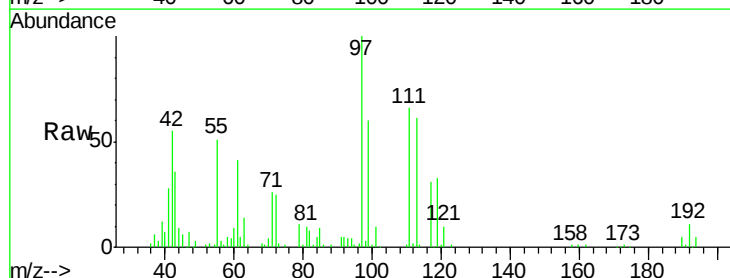
Tgt Ion: 97 Resp: 211337

Ion Ratio Lower Upper

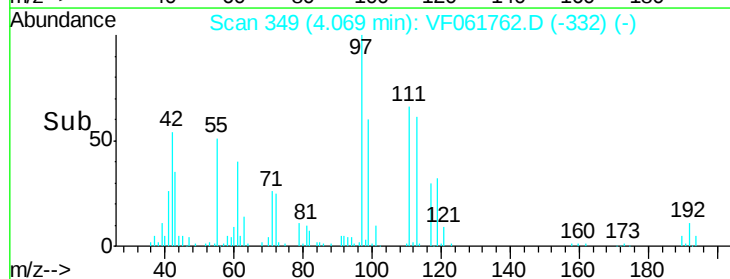
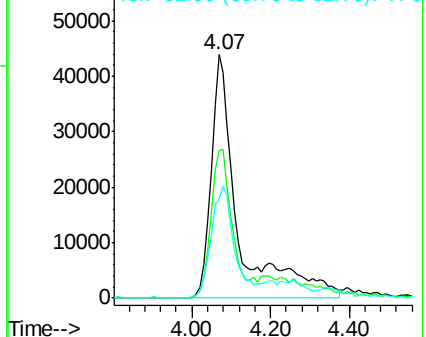
97 100

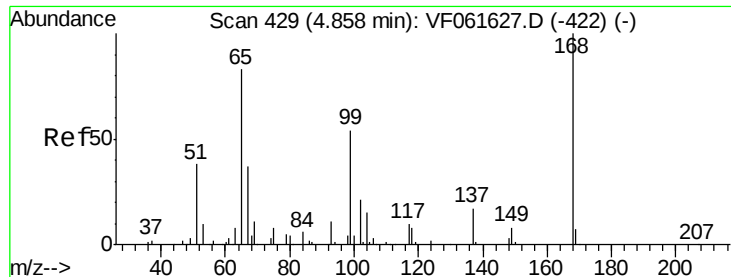
99 60.4 52.2 78.2

61 40.8 39.2 58.8



Abundance Ion 97.00 (96.70 to 97.70): VF0
Ion 99.00 (98.70 to 99.70): VF0
Ion 61.00 (60.70 to 61.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 51.990 ug/l

RT: 4.82 min Scan# 425

Delta R.T. -0.04 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

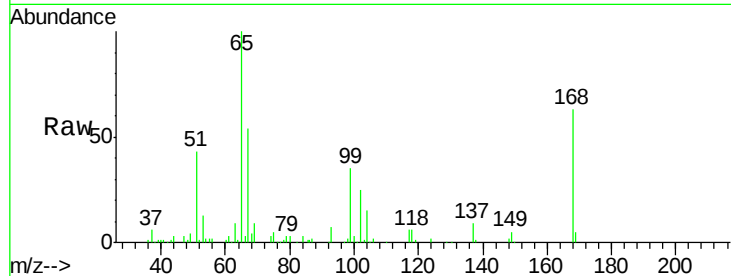
VSTDCCC050

Tot Ion: 65 Resp: 127554

Ion Ratio Lower Upper

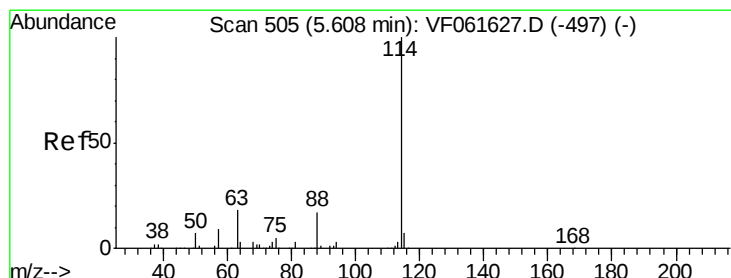
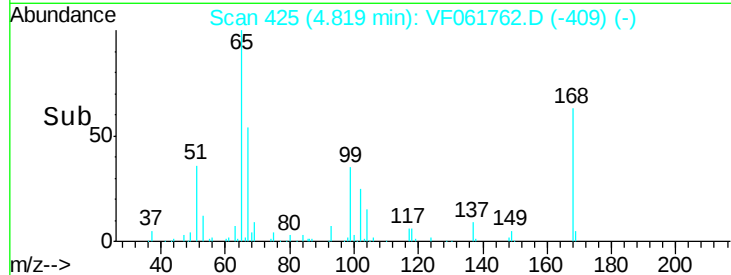
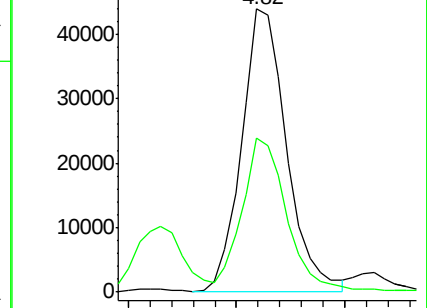
65 100

67 54.5 0.0 104.0



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.03 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

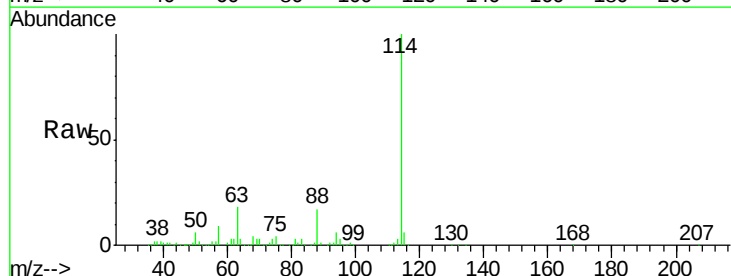
Tgt Ion: 114 Resp: 496459

Ion Ratio Lower Upper

114 100

63 18.4 0.0 36.6

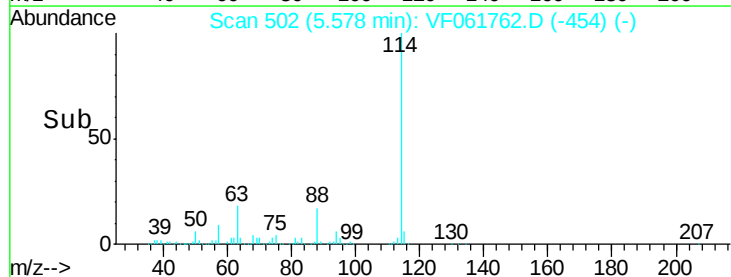
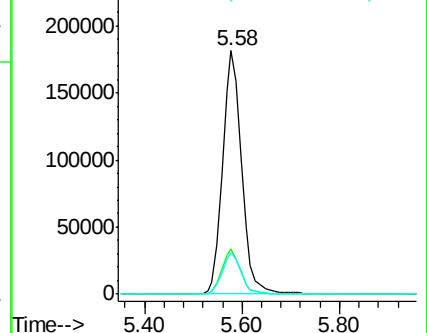
88 16.8 0.0 34.4

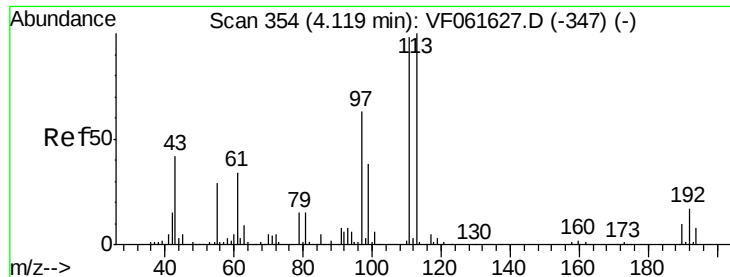


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#35

Dibromofluoromethane

Concen: 47.334 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.03 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

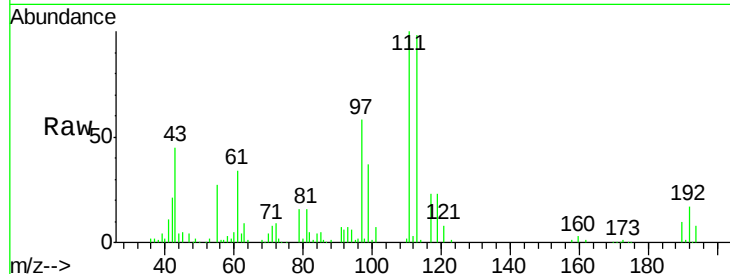
Tot Ion:113 Resp: 174510

Ion Ratio Lower Upper

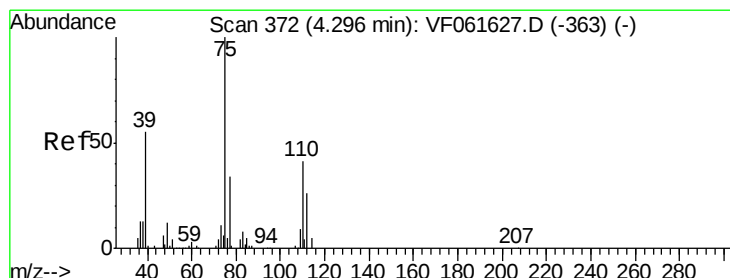
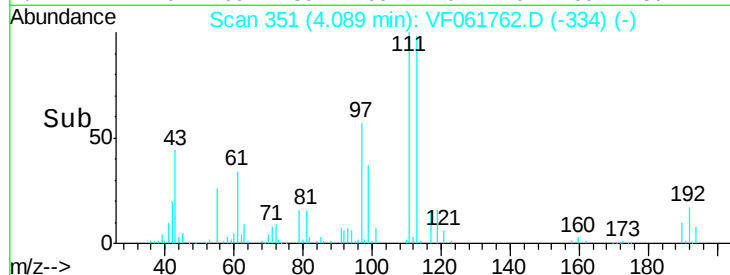
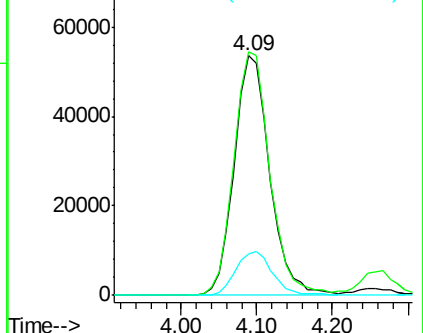
113 100

111 101.7 78.8 118.2

192 17.4 13.4 20.0



Abundance Ion 113.00 (112.70 to 113.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 48.539 ug/l

RT: 4.26 min Scan# 368

Delta R.T. -0.04 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

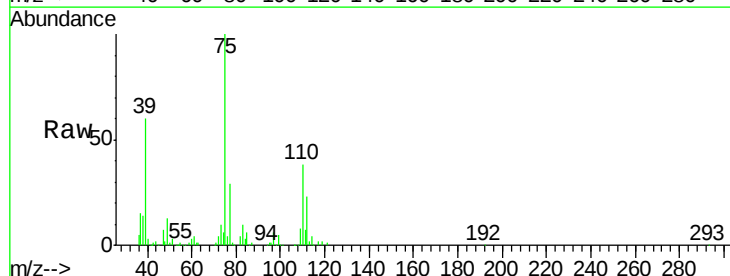
Tgt Ion: 75 Resp: 238714

Ion Ratio Lower Upper

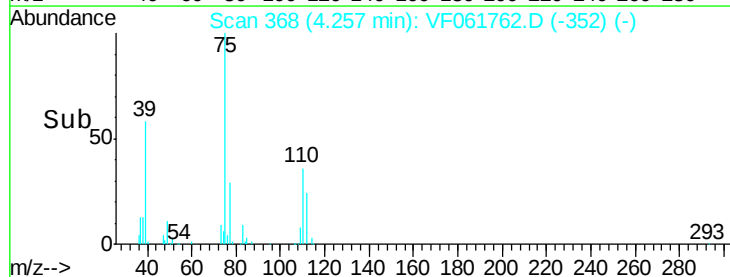
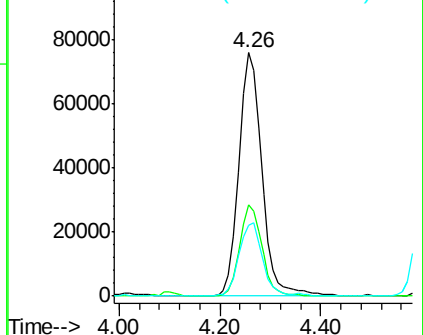
75 100

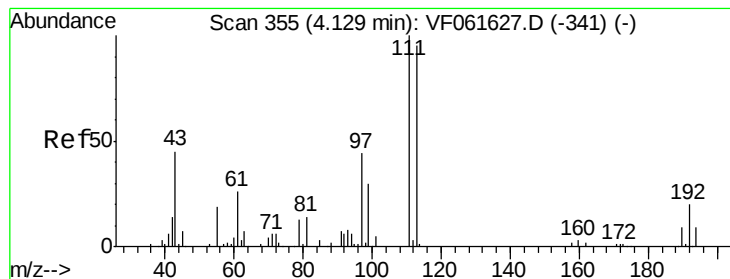
110 37.6 20.5 61.6

77 28.9 27.0 40.4



Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 110.00 (109.70 to 110.70): V
Ion 77.00 (76.70 to 77.70): VF0





#37

Ethyl Acetate

Concen: 41.626 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.04 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

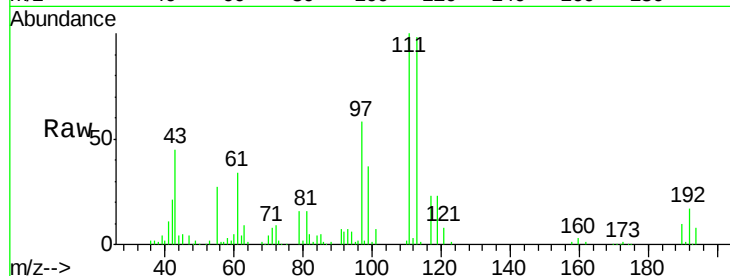
Tot Ion: 43 Resp: 95086

Ion Ratio Lower Upper

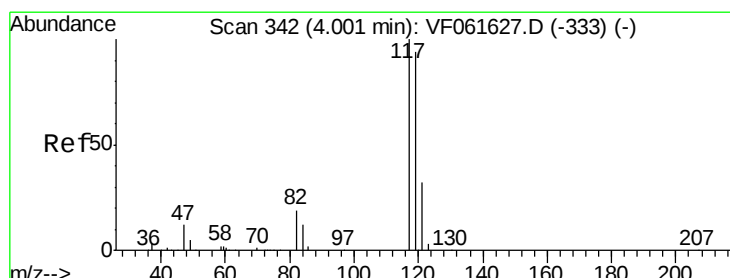
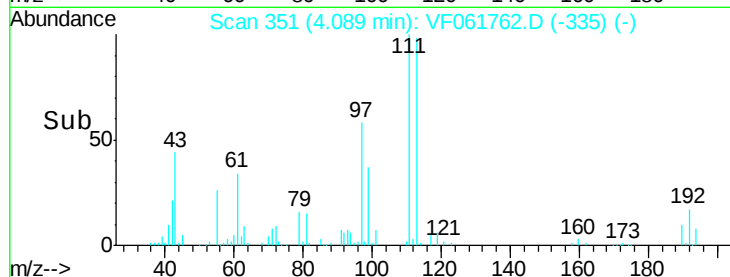
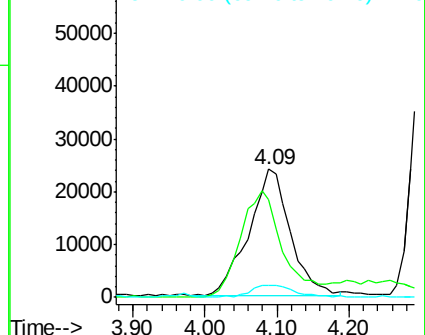
43 100

61 76.4 45.7 68.5#

70 9.3 8.5 12.7



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



#38

Carbon Tetrachloride

Concen: 48.394 ug/l

RT: 3.97 min Scan# 339

Delta R.T. -0.03 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

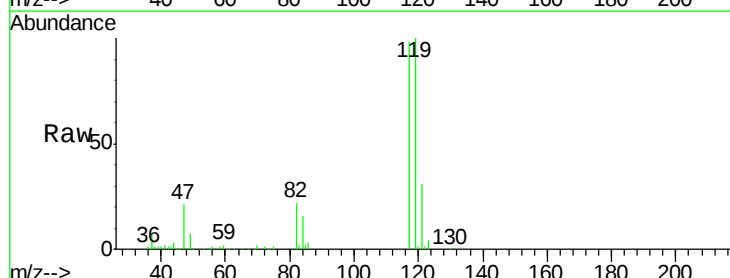
Tgt Ion: 117 Resp: 164344

Ion Ratio Lower Upper

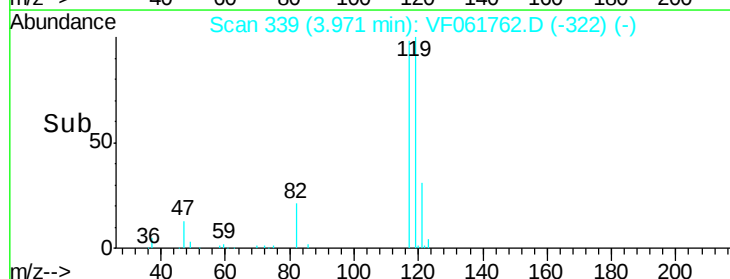
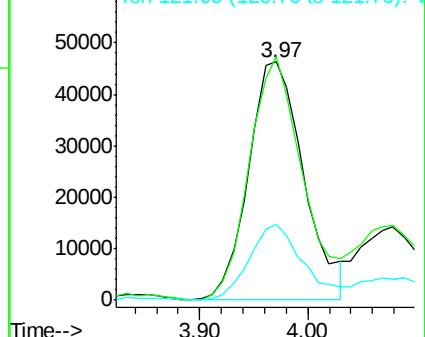
117 100

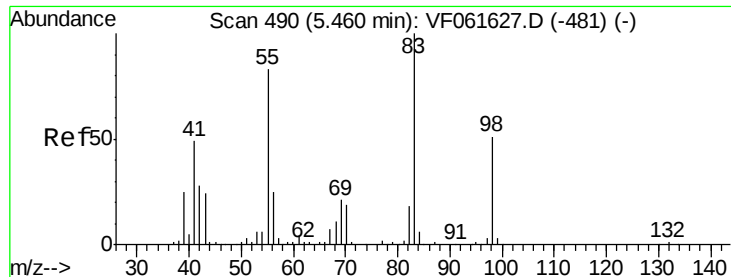
119 102.3 75.6 113.4

121 31.7 25.2 37.8



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

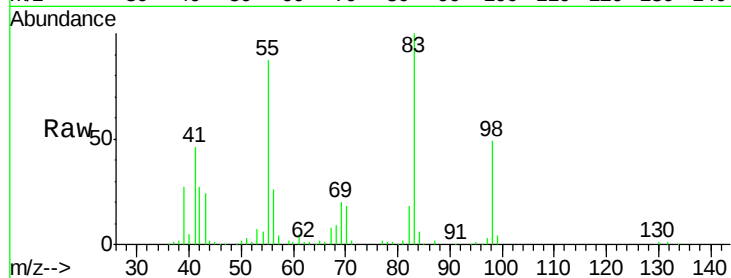




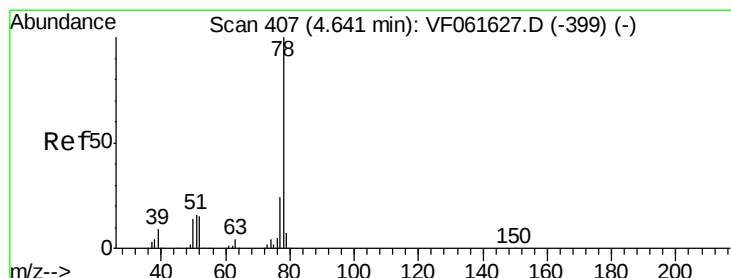
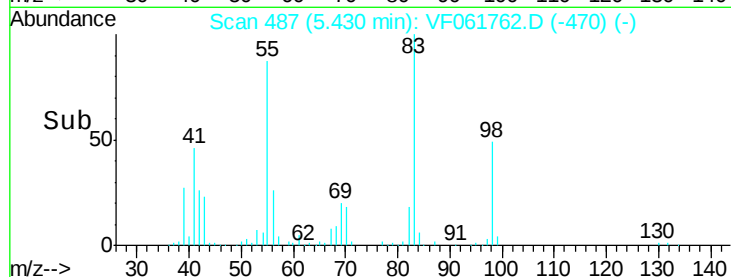
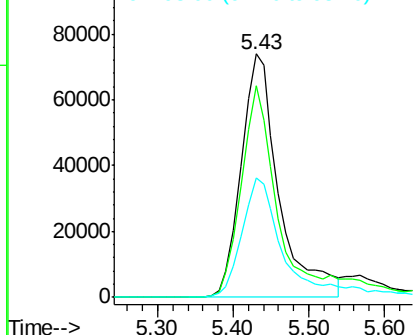
#39
Methvlcvclohexane
Concen: 44.338 ug/l
RT: 5.43 min Scan# 487
Delta R.T. -0.03 min
Lab File: VF061762.D
Acq: 27 Feb 2019 12:53

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 83 Resp: 257887
Ion Ratio Lower Upper
83 100
55 87.1 66.6 99.8
98 49.2 40.4 60.6

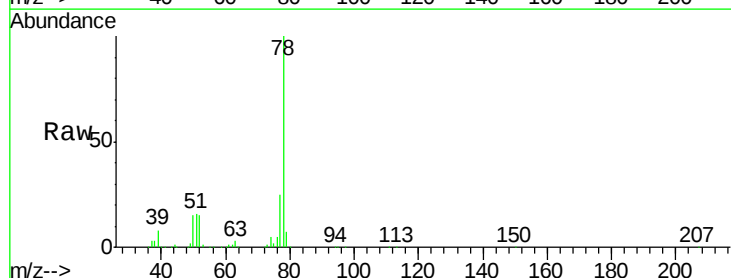


Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 98.00 (97.70 to 98.70): VF0

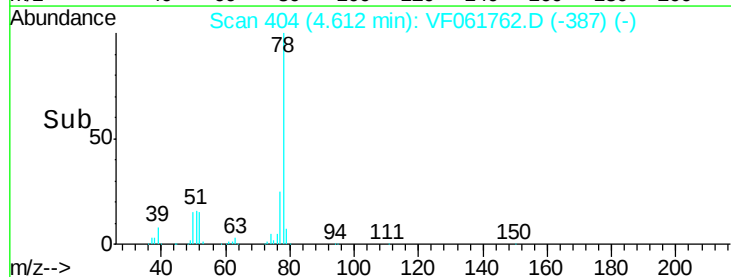
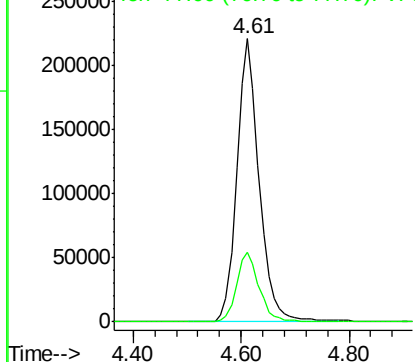


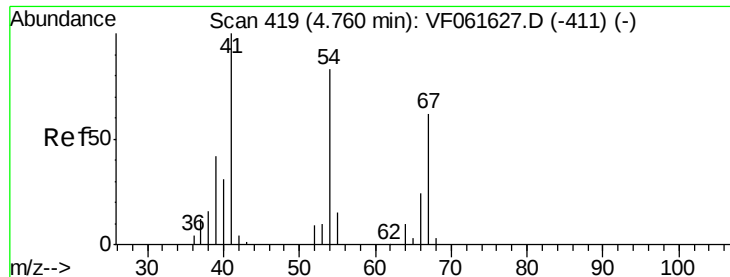
#40
Benzene
Concen: 49.147 ug/l
RT: 4.61 min Scan# 404
Delta R.T. -0.03 min
Lab File: VF061762.D
Acq: 27 Feb 2019 12:53

Tgt Ion: 78 Resp: 632228
Ion Ratio Lower Upper
78 100
77 24.6 19.0 28.6



Abundance Ion 78.10 (77.80 to 78.80): VF0
Ion 77.00 (76.70 to 77.70): VF0

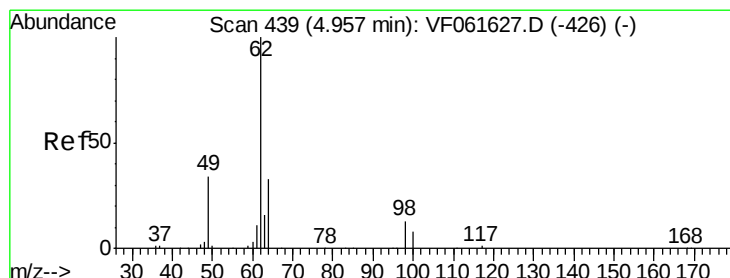
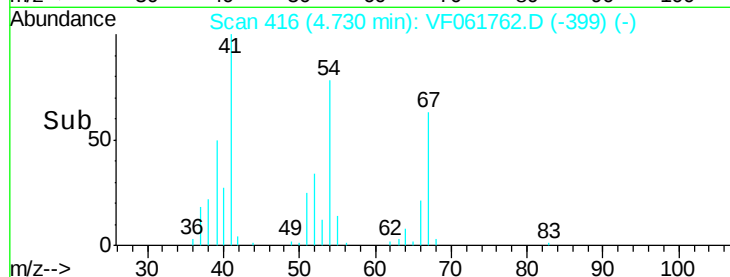
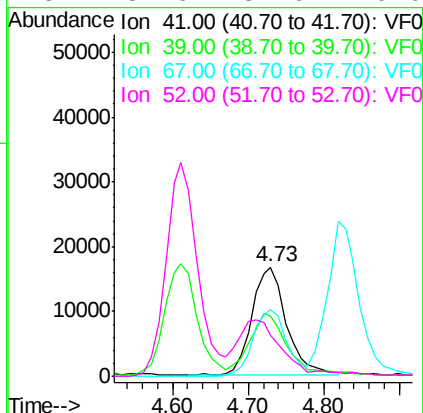
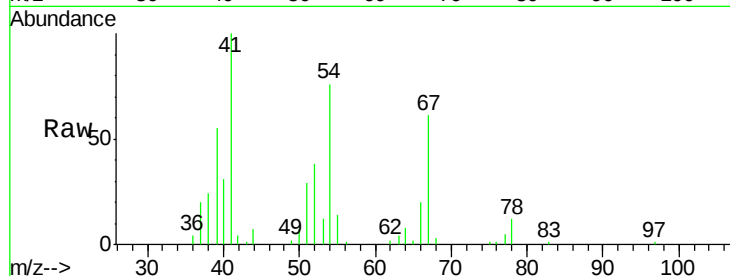




#41
Methacrylonitrile
Concen: 45.613 ug/l
RT: 4.73 min Scan# 416
Delta R.T. -0.03 min
Lab File: VF061762.D
Acq: 27 Feb 2019 12:53

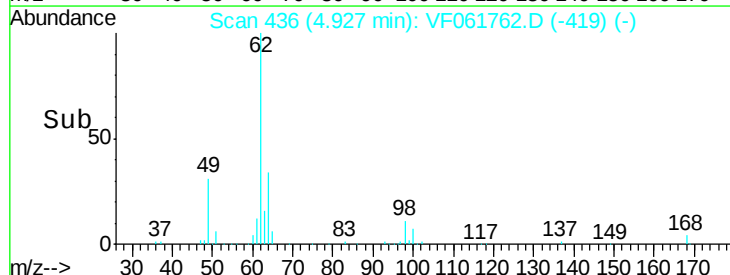
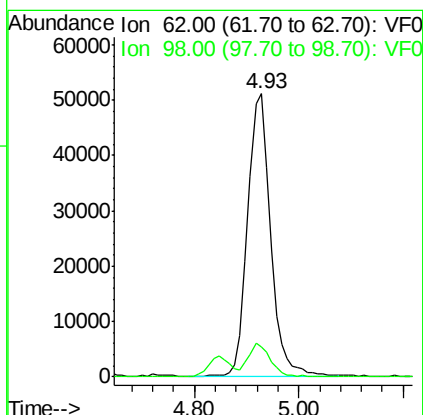
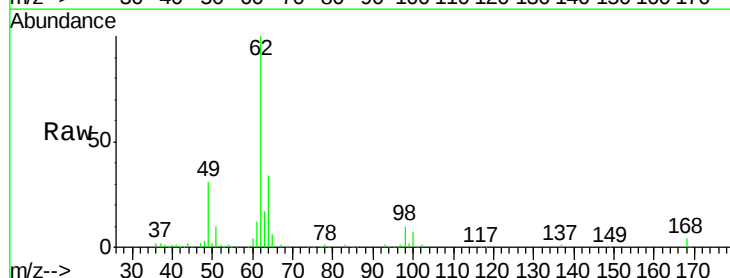
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

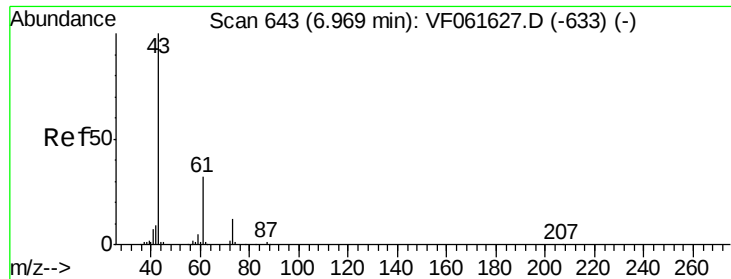
Tot Ion:	41	Resp:	53285
Ion	Ratio	Lower	Upper
41	100		
39	54.7	45.3	67.9
67	61.2	49.3	73.9
52	37.6	32.6	49.0



#42
1,2-Dichloroethane
Concen: 49.890 ug/l
RT: 4.93 min Scan# 436
Delta R.T. -0.03 min
Lab File: VF061762.D
Acq: 27 Feb 2019 12:53

Tgt Ion:	62	Resp:	153516
Ion	Ratio	Lower	Upper
62	100		
98	10.5	0.0	26.0



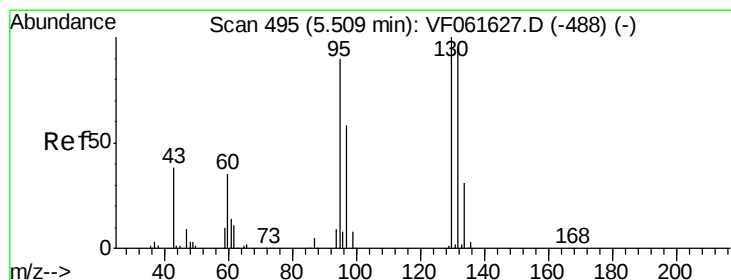
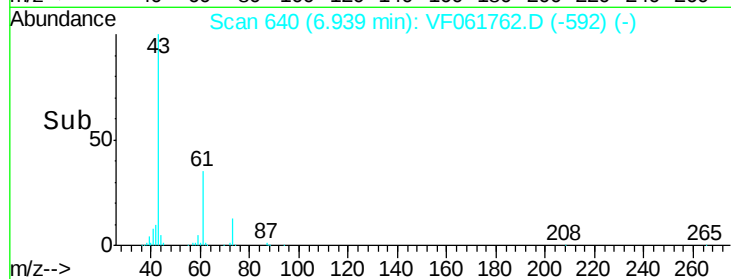
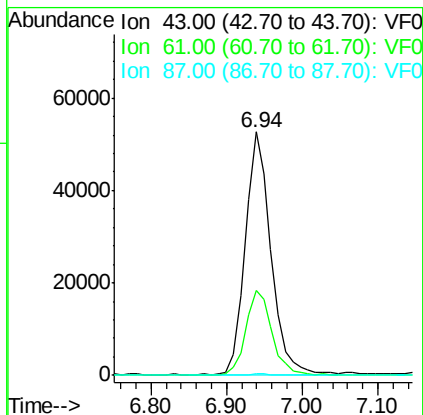
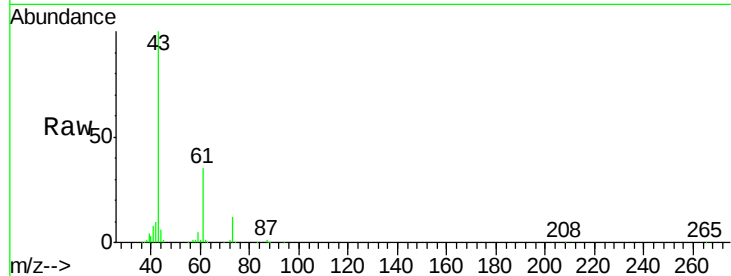


#43

Isopropyl Acetate
 Concen: 46.347 ug/l
 RT: 6.94 min Scan# 640
 Delta R.T. -0.03 min
 Lab File: VF061762.D
 Acq: 27 Feb 2019 12:53

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

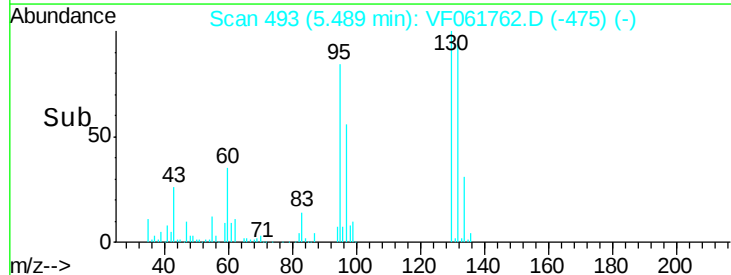
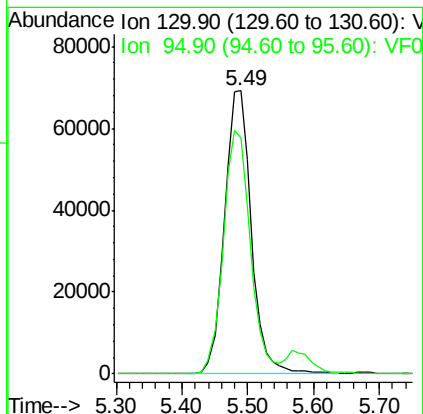
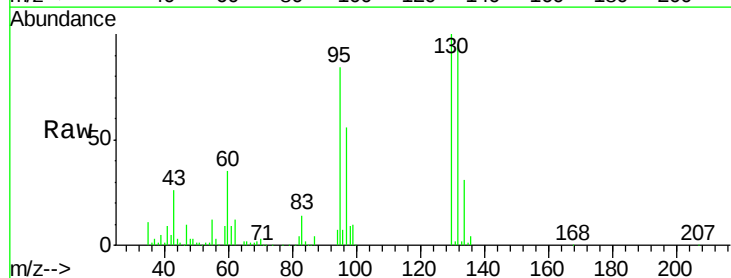
Tot Ion	43	Resp	125317
Ion Ratio	Lower	Upper	
43	100		
61	34.8	25.8	38.6
87	0.5	0.4	0.6

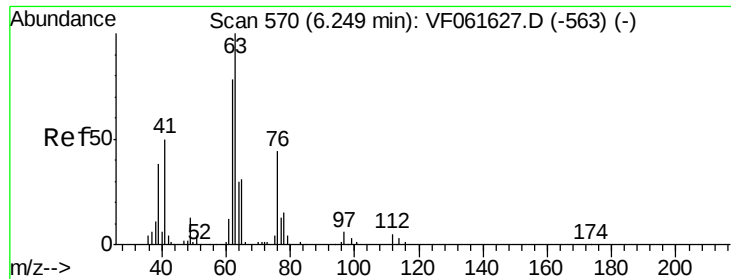


#44

Trichloroethene
 Concen: 47.649 ug/l
 RT: 5.49 min Scan# 493
 Delta R.T. -0.02 min
 Lab File: VF061762.D
 Acq: 27 Feb 2019 12:53

Tgt Ion	130	Resp	198217
Ion Ratio	Lower	Upper	
130	100		
95	83.5	0.0	179.4





#45

1,2-Dichloropropane

Concen: 47.247 ug/l

RT: 6.22 min Scan# 567

Delta R.T. -0.03 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

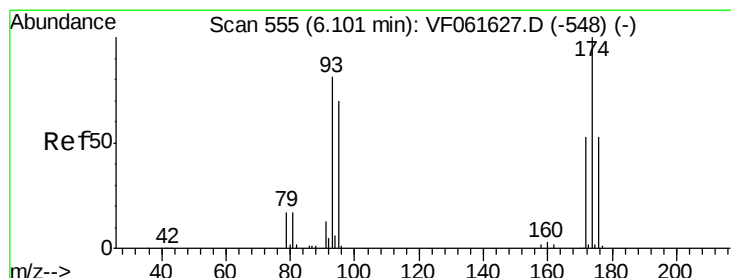
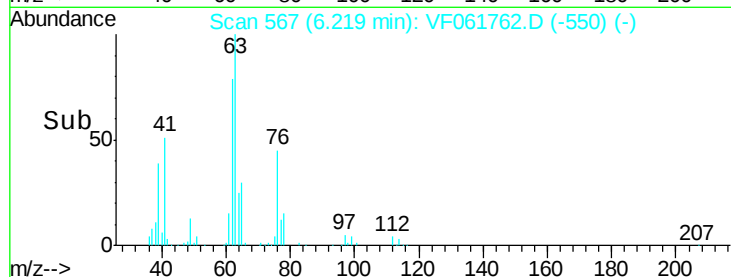
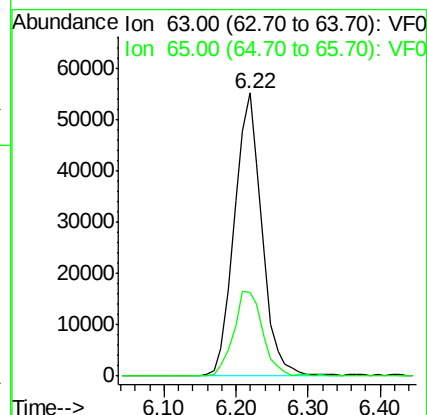
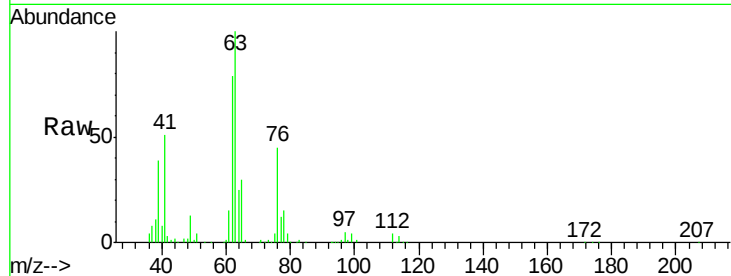
VSTDCCC050

Tot Ion: 63 Resp: 146911

Ion Ratio Lower Upper

63 100

65 29.7 24.9 37.3



#46

Dibromomethane

Concen: 50.326 ug/l

RT: 6.06 min Scan# 551

Delta R.T. -0.04 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

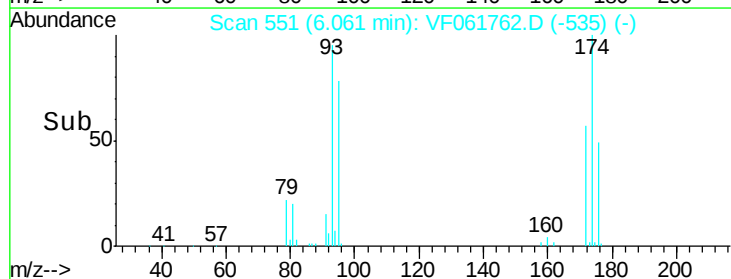
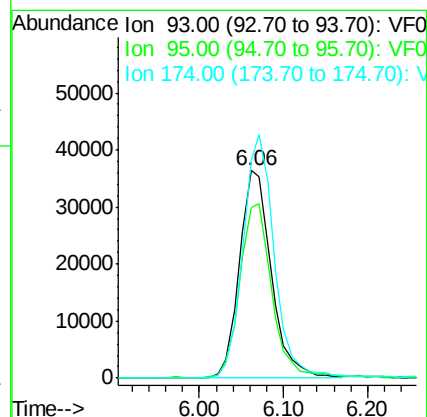
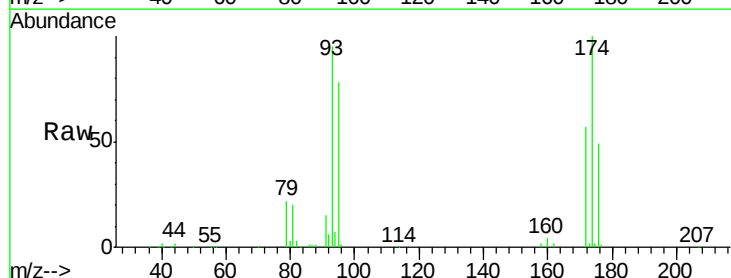
Tgt Ion: 93 Resp: 96349

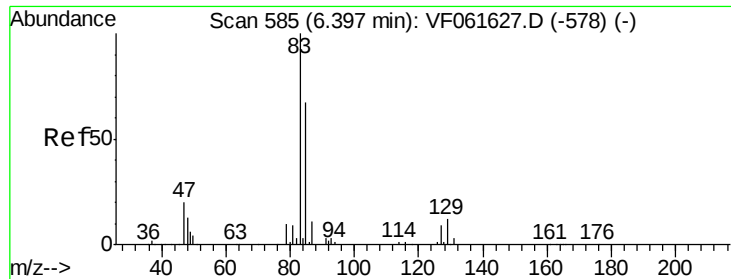
Ion Ratio Lower Upper

93 100

95 82.0 69.0 103.6

174 104.9 99.3 148.9





#47

Bromodichloromethane

Concen: 51.406 ug/l

RT: 6.37 min Scan# 582

Delta R.T. -0.03 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

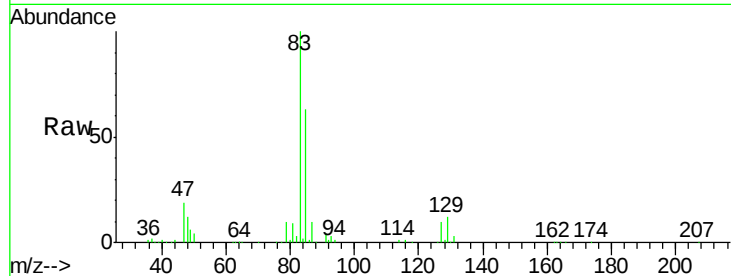
Tot Ion: 83 Resp: 215522

Ion Ratio Lower Upper

83 100

85 62.9 53.4 80.2

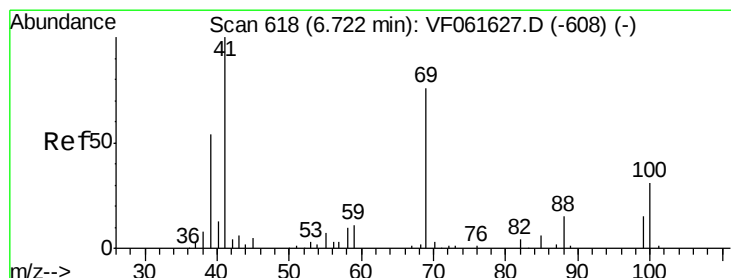
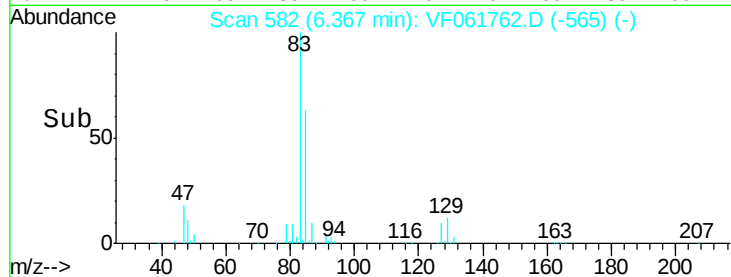
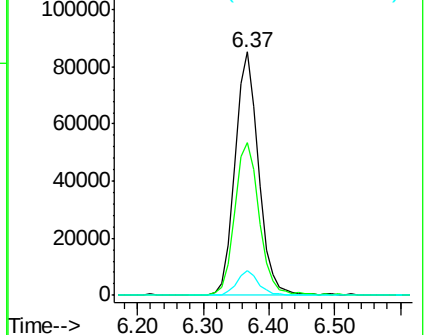
127 10.1 7.5 11.3



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 48.337 ug/l

RT: 6.69 min Scan# 615

Delta R.T. -0.03 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

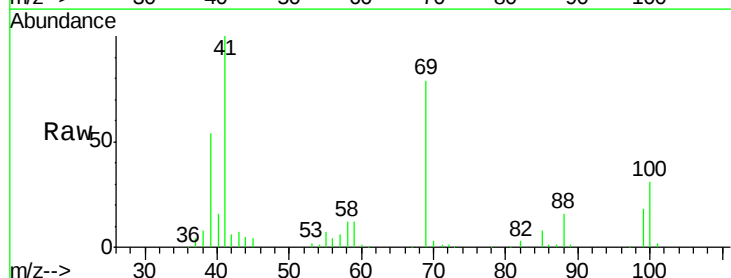
Tgt Ion: 41 Resp: 78653

Ion Ratio Lower Upper

41 100

69 79.1 60.4 90.6

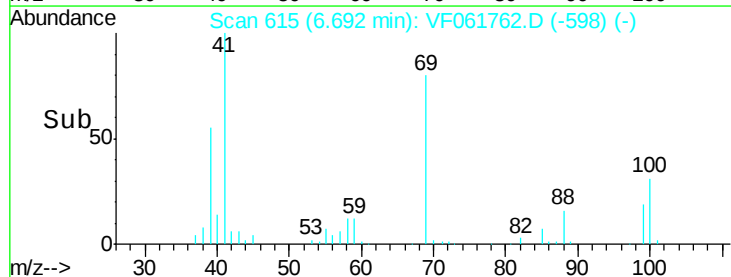
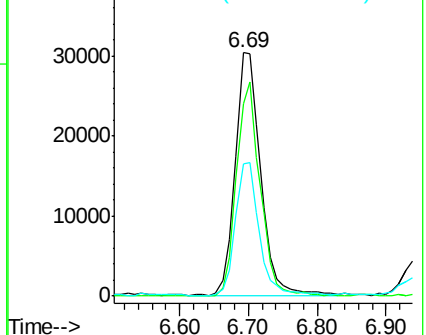
39 54.2 43.7 65.5

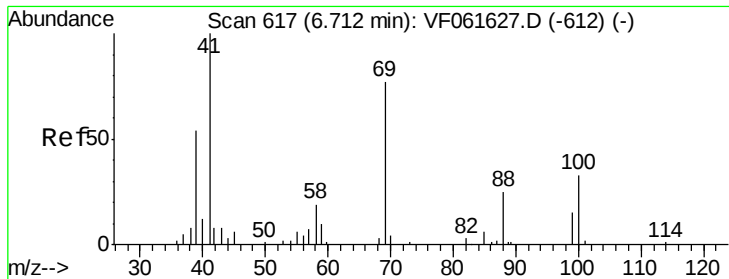


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 954.478 ug/l

RT: 6.69 min Scan# 615

Delta R.T. -0.02 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

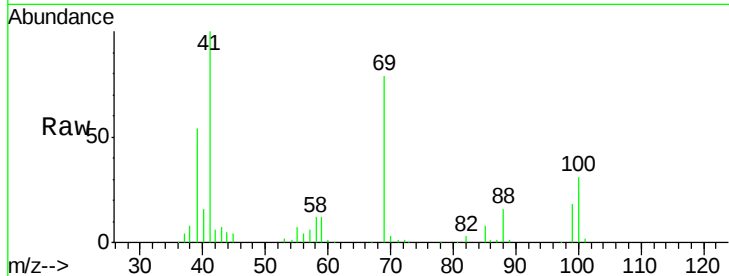
Tot Ion: 88 Resp: 14600

Ion Ratio Lower Upper

88 100

43 44.4 32.3 48.5

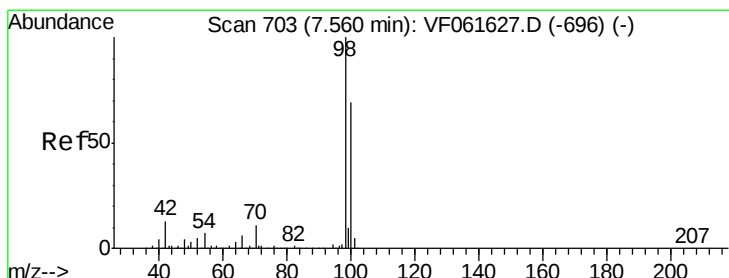
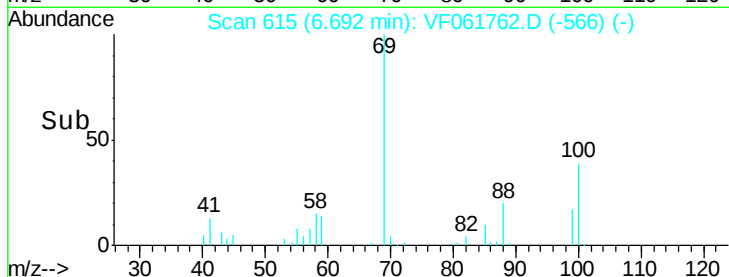
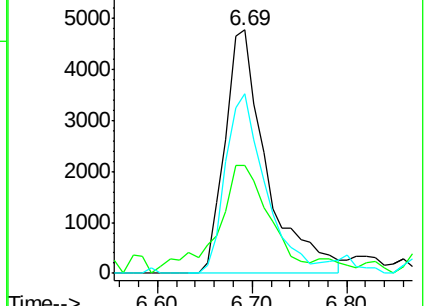
58 73.8 59.4 89.2



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 50.361 ug/l

RT: 7.53 min Scan# 700

Delta R.T. -0.03 min

Lab File: VF061762.D

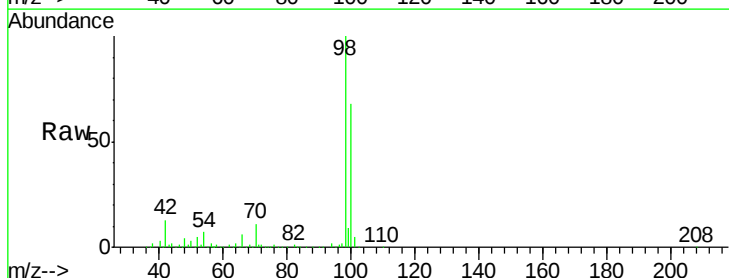
Acq: 27 Feb 2019 12:53

Tgt Ion: 98 Resp: 533747

Ion Ratio Lower Upper

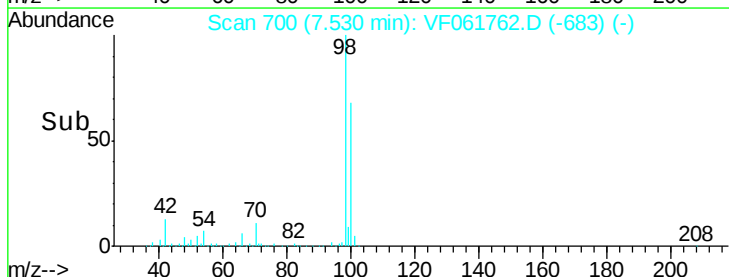
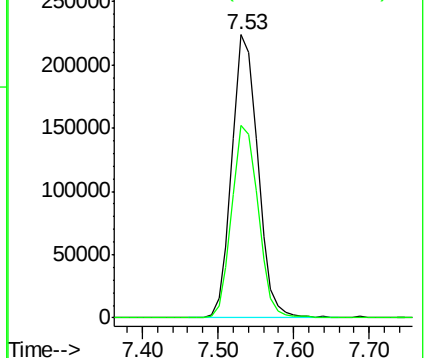
98 100

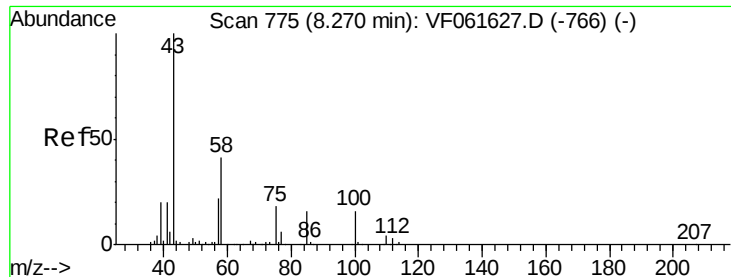
100 68.0 55.4 83.2



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 223.597 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.03 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

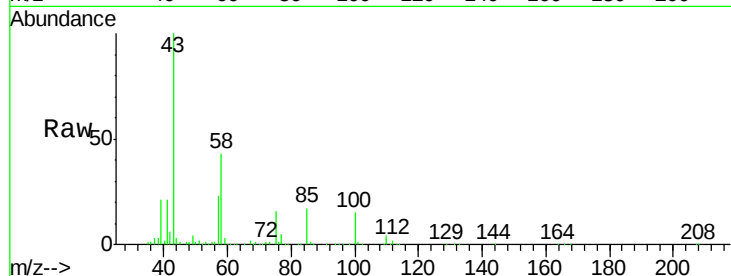
VSTDCCC050

Tot Ion: 43 Resp: 431995

Ion Ratio Lower Upper

43 100

58 43.2 33.1 49.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.24

150000

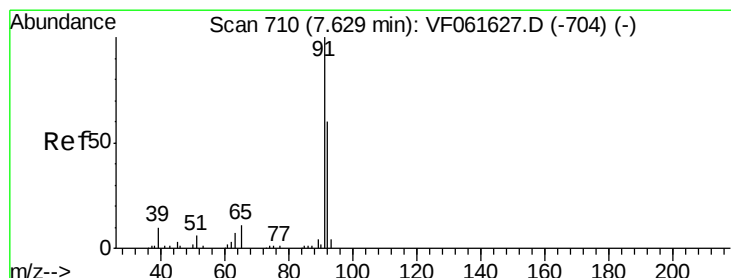
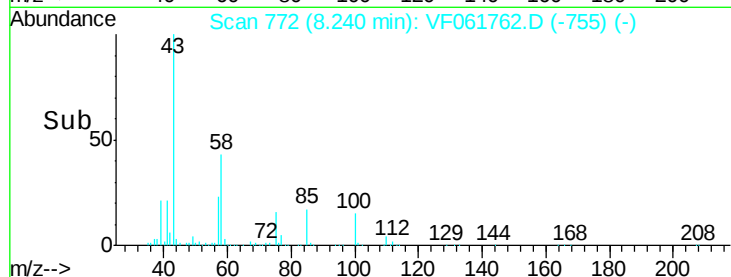
100000

50000

0

Time-->

8.10 8.20 8.30 8.40



#52

Toluene

Concen: 48.381 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.02 min

Lab File: VF061762.D

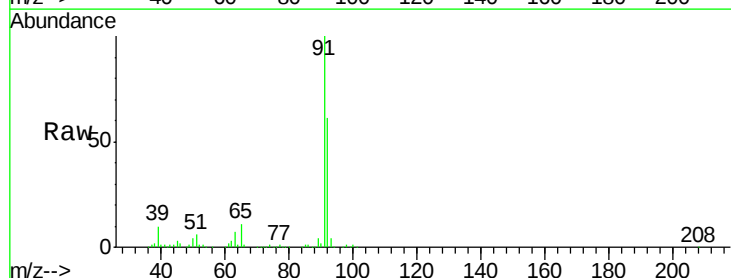
Acq: 27 Feb 2019 12:53

Tgt Ion: 92 Resp: 377458

Ion Ratio Lower Upper

92 100

91 164.9 133.9 200.9



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.61

300000

250000

200000

150000

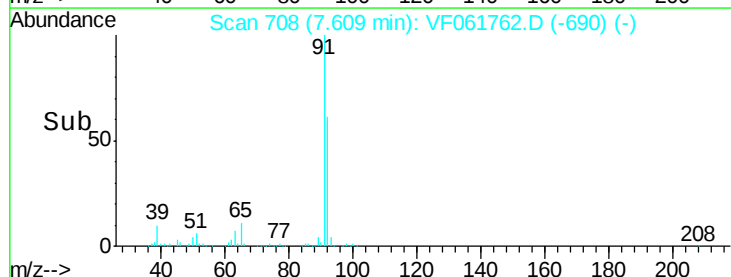
100000

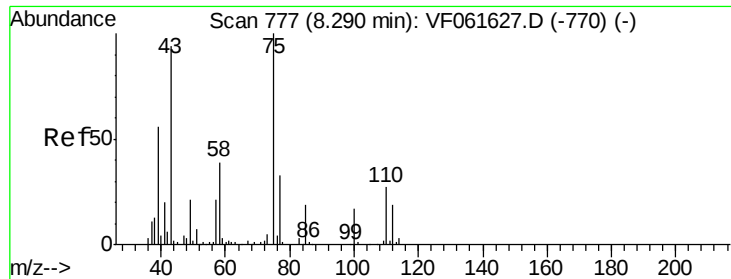
50000

0

Time-->

7.40 7.50 7.60 7.70





#53

t-1,3-Dichloropropene

Concen: 47.859 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.03 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

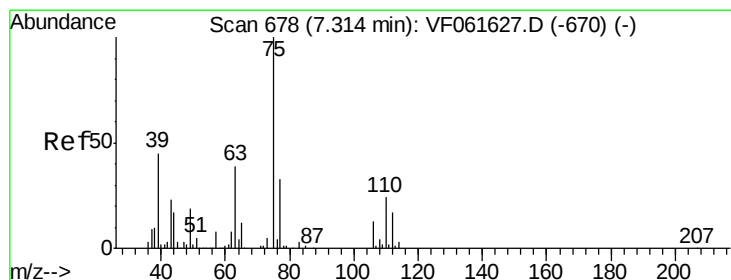
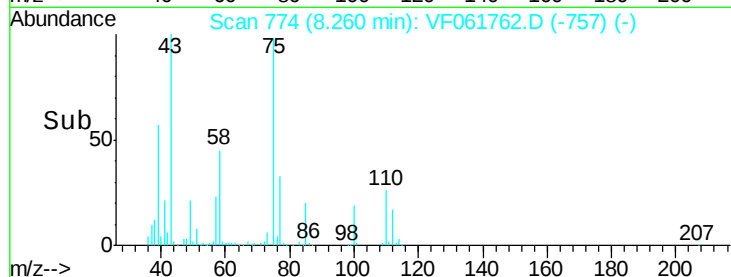
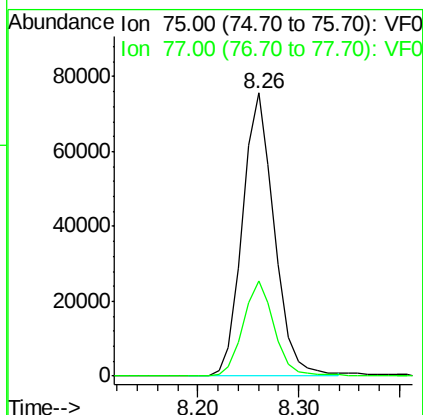
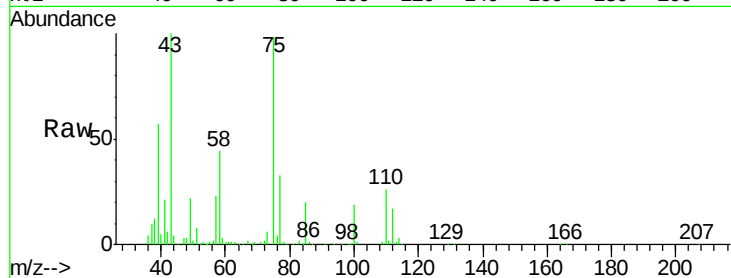
VSTDCCC050

Tot Ion: 75 Resp: 166993

Ion Ratio Lower Upper

75 100

77 33.7 26.2 39.2



#54

cis-1,3-Dichloropropene

Concen: 53.093 ug/l

RT: 7.28 min Scan# 675

Delta R.T. -0.03 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

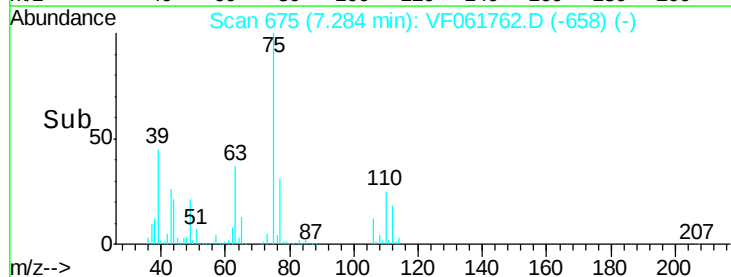
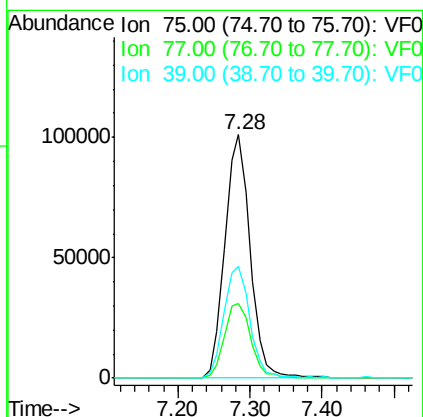
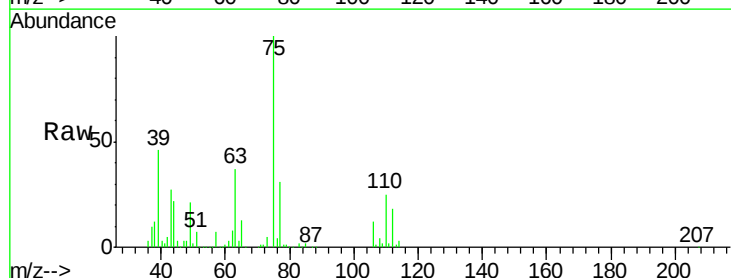
Tgt Ion: 75 Resp: 246762

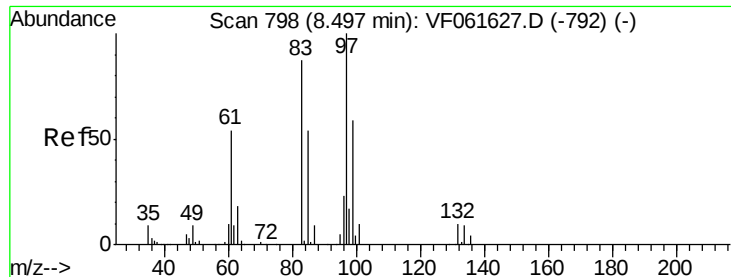
Ion Ratio Lower Upper

75 100

77 30.7 26.4 39.6

39 45.8 36.0 54.0





#55

1,1,2-Trichloroethane

Concen: 49.178 ug/l

RT: 8.47 min Scan# 795

Delta R.T. -0.03 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 97 Resp: 112728

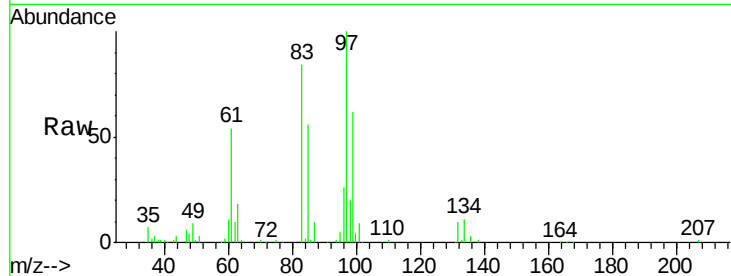
Ion Ratio Lower Upper

97 100

83 84.0 69.2 103.8

85 56.1 43.0 64.4

99 62.1 47.2 70.8

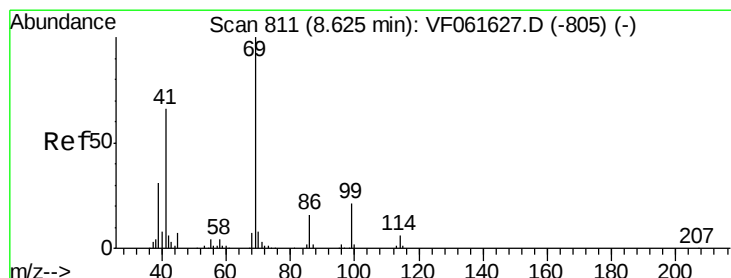
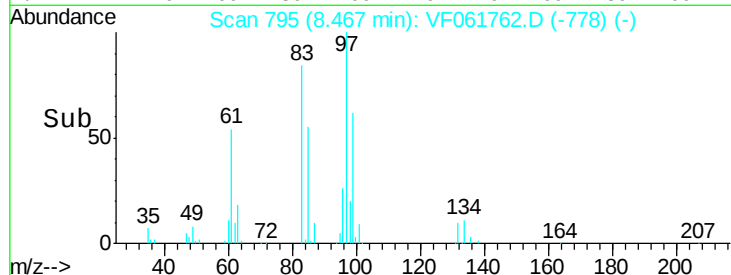
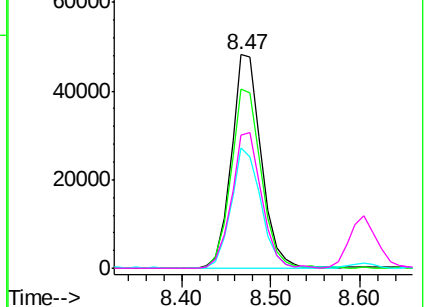


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 46.481 ug/l

RT: 8.61 min Scan# 809

Delta R.T. -0.02 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

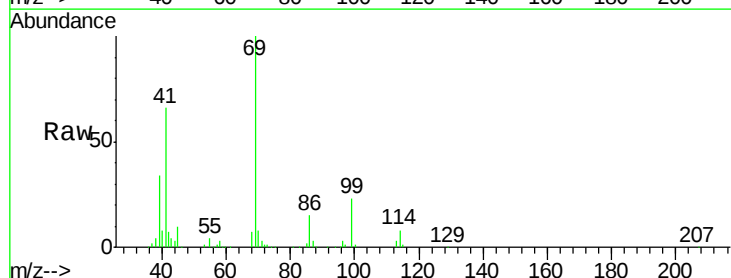
Tgt Ion: 69 Resp: 118624

Ion Ratio Lower Upper

69 100

41 66.0 52.9 79.3

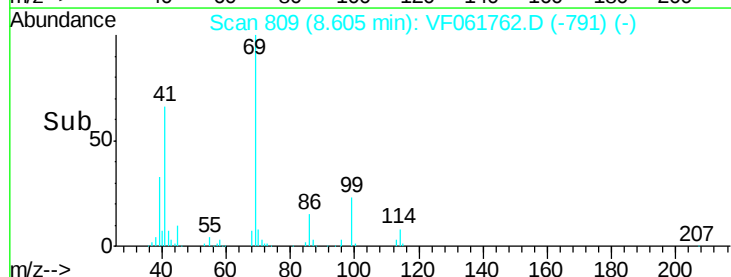
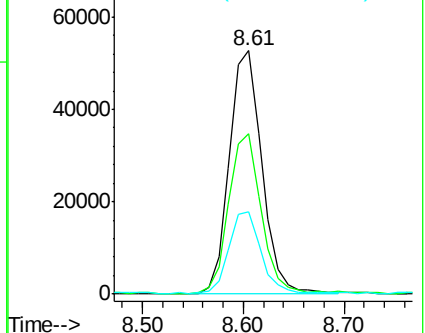
39 33.6 24.5 36.7

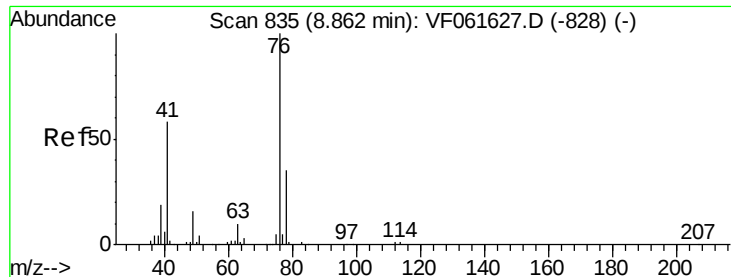


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 47.218 ug/l

RT: 8.83 min Scan# 832

Delta R.T. -0.03 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

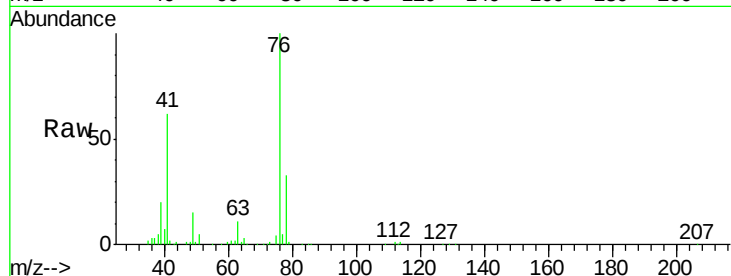
VSTDCCC050

Tot Ion: 76 Resp: 180658

Ion Ratio Lower Upper

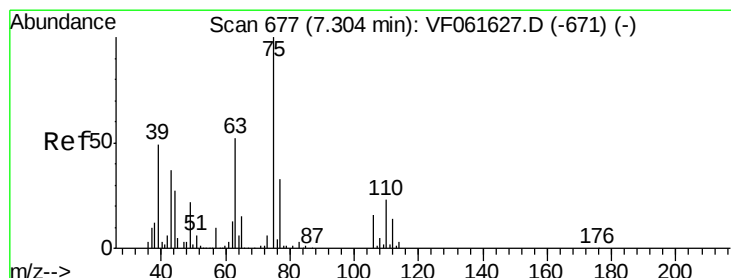
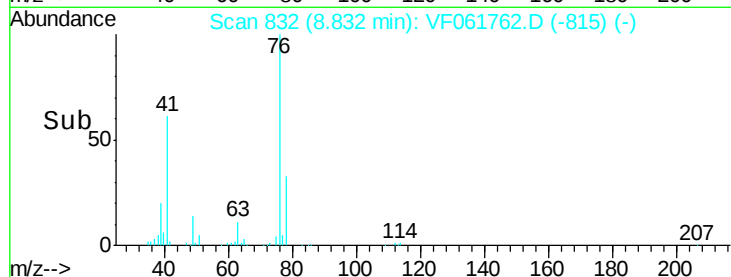
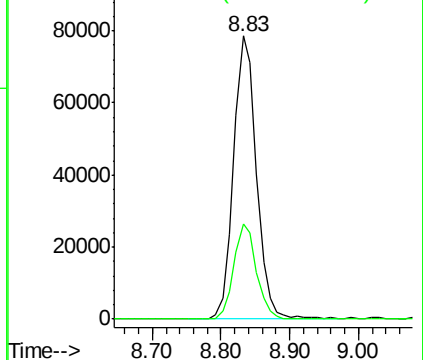
76 100

78 33.4 27.8 41.6



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 226.631 ug/l

RT: 7.27 min Scan# 674

Delta R.T. -0.03 min

Lab File: VF061762.D

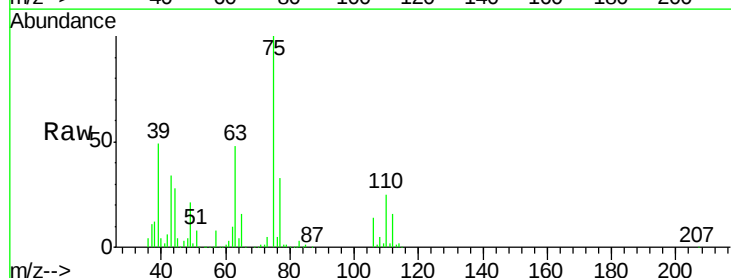
Acq: 27 Feb 2019 12:53

Tgt Ion: 63 Resp: 99791

Ion Ratio Lower Upper

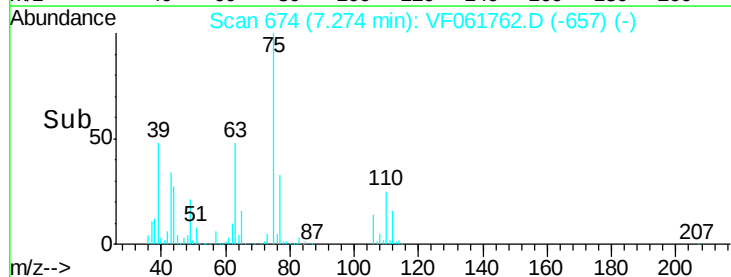
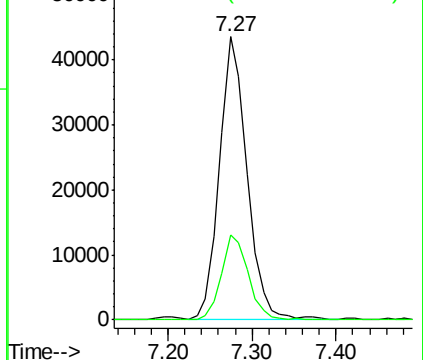
63 100

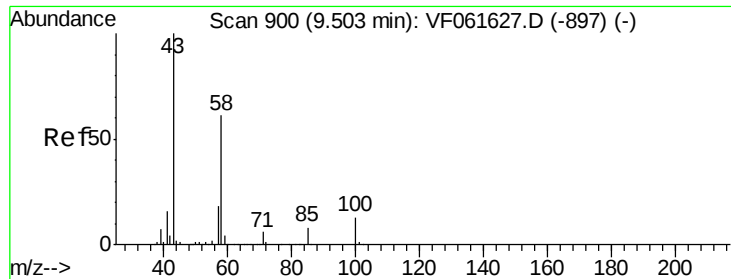
106 29.8 24.6 36.8



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

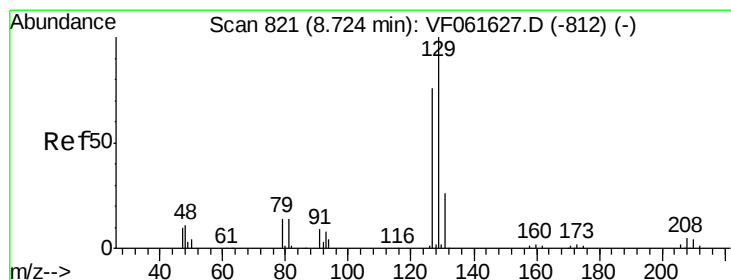
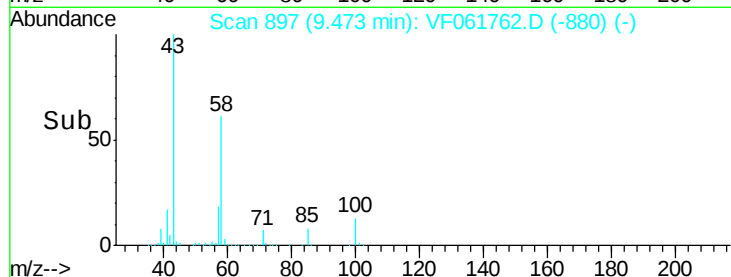
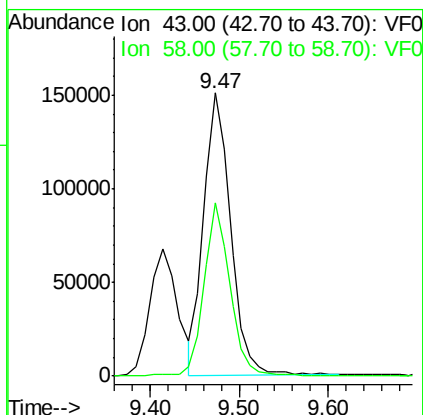
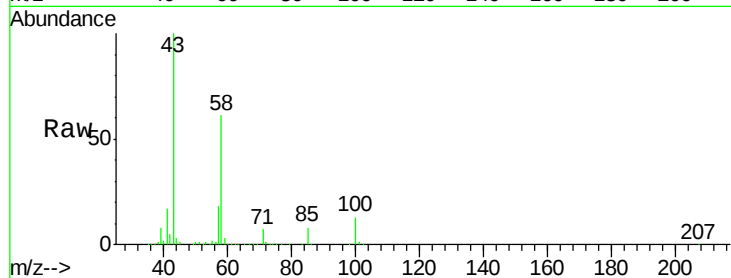




#59
2-Hexanone
Concen: 232.830 ug/l
RT: 9.47 min Scan# 897
Delta R.T. -0.03 min
Lab File: VF061762.D
Acq: 27 Feb 2019 12:53

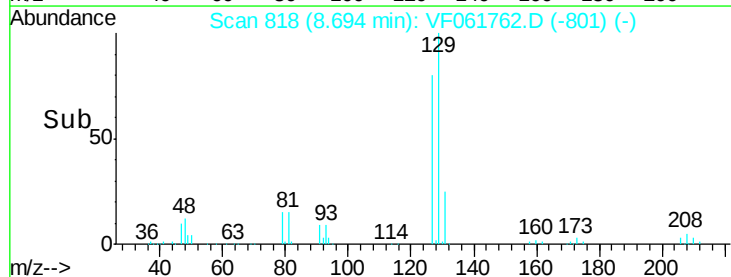
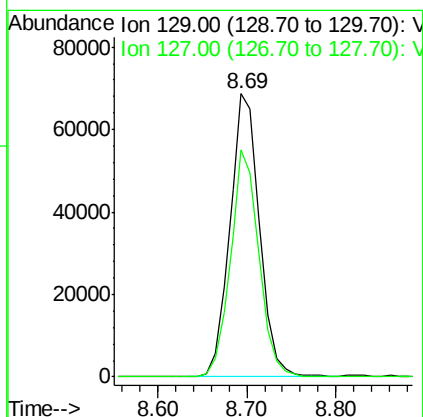
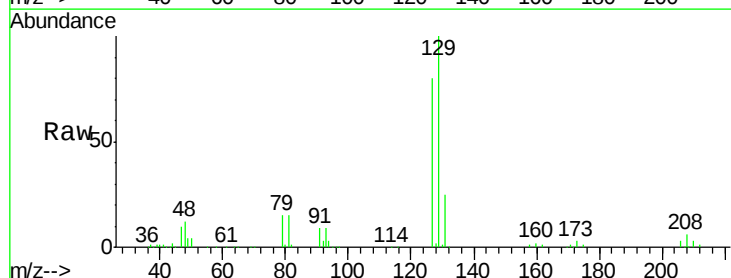
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

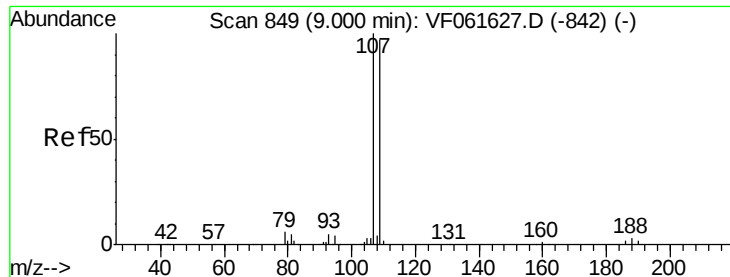
Tot Ion: 43 Resp: 315321
Ion Ratio Lower Upper
43 100
58 61.3 28.5 85.5



#60
Dibromochloromethane
Concen: 50.147 ug/l
RT: 8.69 min Scan# 818
Delta R.T. -0.03 min
Lab File: VF061762.D
Acq: 27 Feb 2019 12:53

Tgt Ion: 129 Resp: 159993
Ion Ratio Lower Upper
129 100
127 80.4 37.8 113.4





#61

1,2-Dibromoethane

Concen: 48.752 ug/l

RT: 8.97 min Scan# 846

Delta R.T. -0.03 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

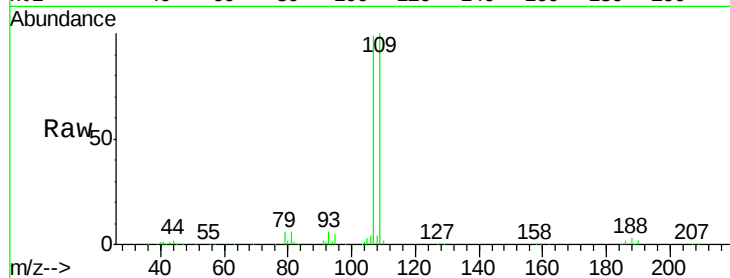
VSTDCCC050

Tot Ion:107 Resp: 121209

Ion Ratio Lower Upper

107 100

109 101.3 77.4 116.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

8.97

60000

50000

40000

30000

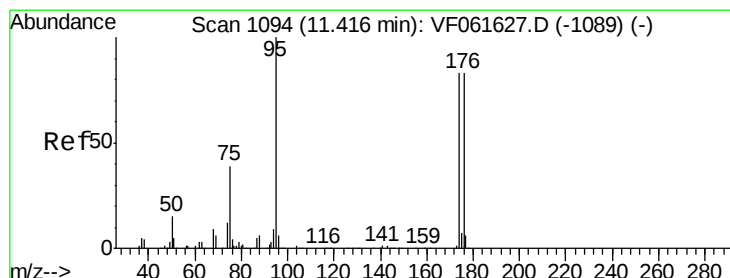
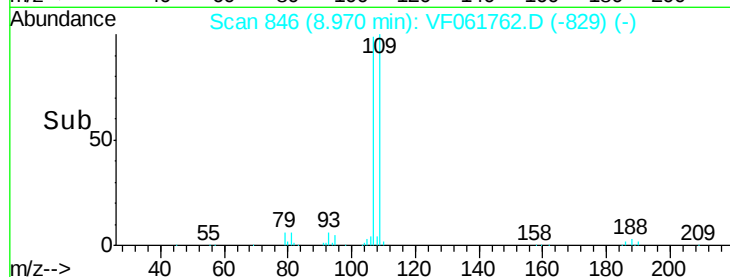
20000

10000

0

Time-->

8.90 9.00 9.10



#62

4-Bromofluorobenzene

Concen: 47.879 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.02 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

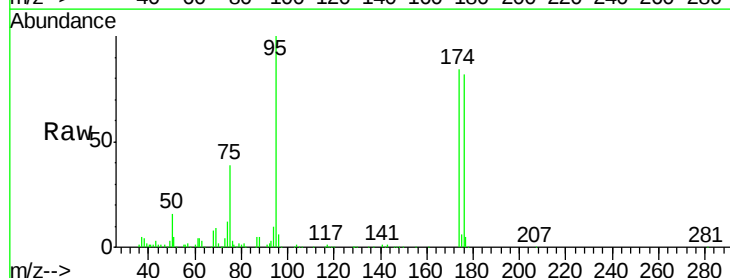
Tgt Ion: 95 Resp: 205318

Ion Ratio Lower Upper

95 100

174 83.7 0.0 165.8

176 82.1 0.0 167.0



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

11.40

150000

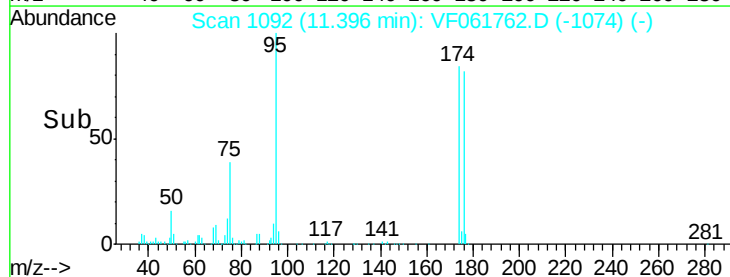
100000

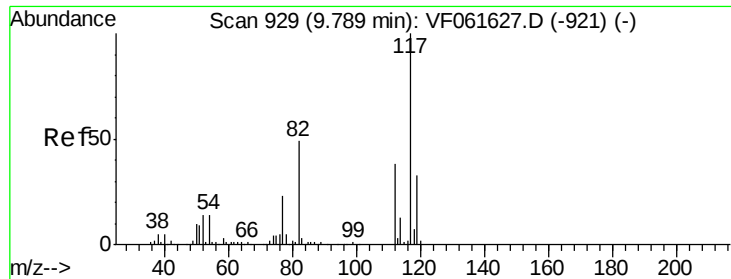
50000

0

Time-->

11.30 11.40 11.50

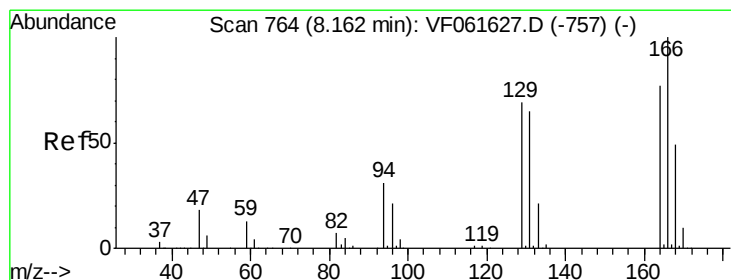
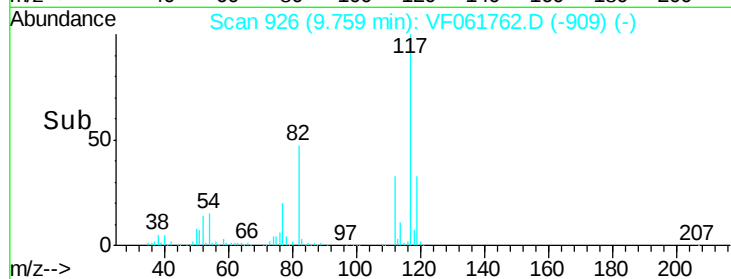
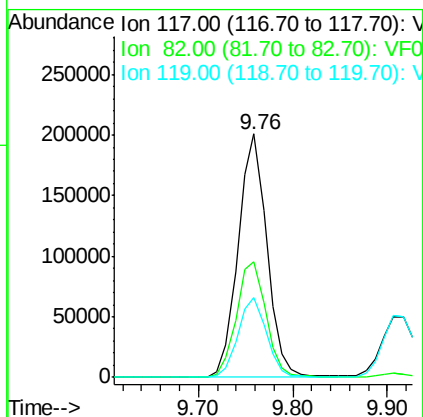
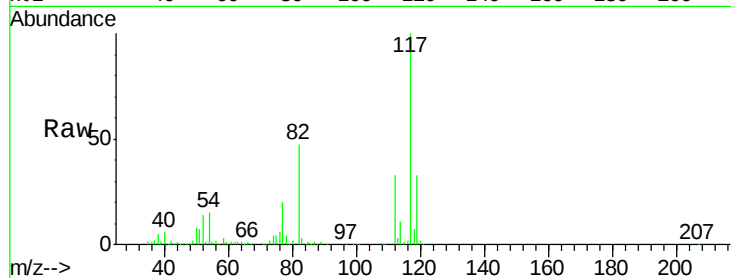




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.03 min
Lab File: VF061762.D
Acq: 27 Feb 2019 12:53

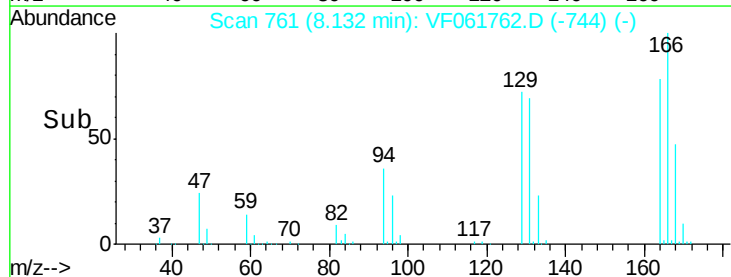
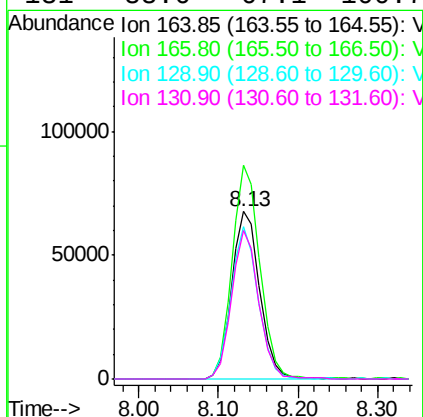
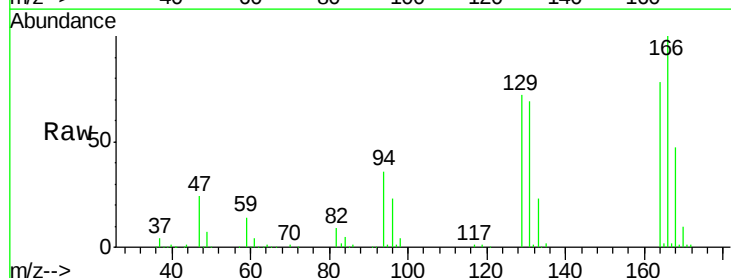
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

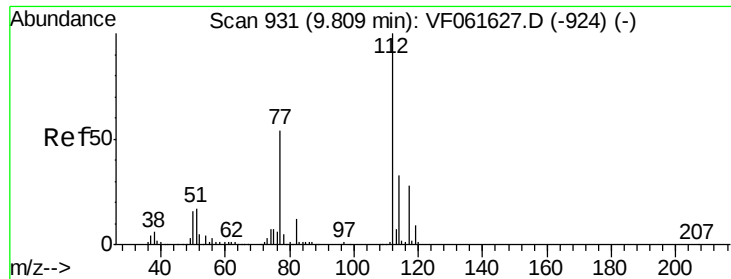
Tot Ion:117 Resp: 424057
Ion Ratio Lower Upper
117 100
82 47.4 39.3 58.9
119 32.6 26.6 40.0



#64
Tetrachloroethene
Concen: 48.026 ug/l
RT: 8.13 min Scan# 761
Delta R.T. -0.03 min
Lab File: VF061762.D
Acq: 27 Feb 2019 12:53

Tgt Ion:164 Resp: 166466
Ion Ratio Lower Upper
164 100
166 127.5 103.9 155.9
129 91.2 71.3 106.9
131 88.6 67.1 100.7

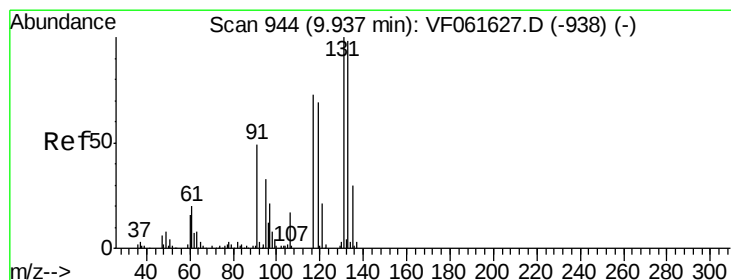
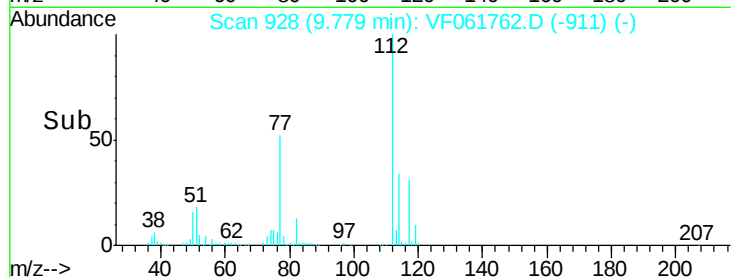
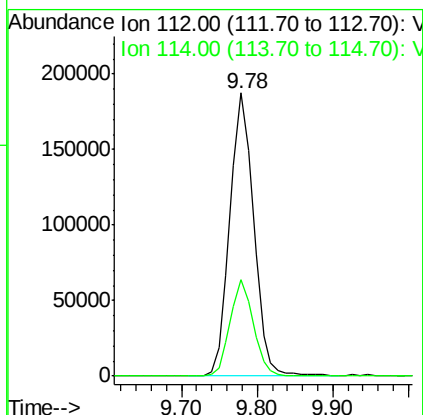
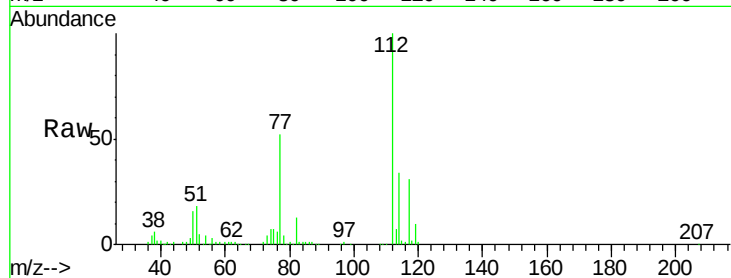




#65
Chlorobenzene
Concen: 47.755 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.03 min
Lab File: VF061762.D
Acq: 27 Feb 2019 12:53

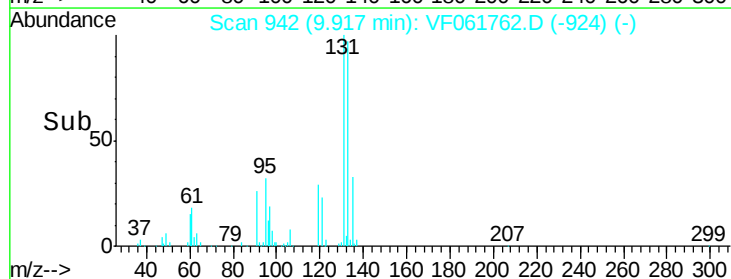
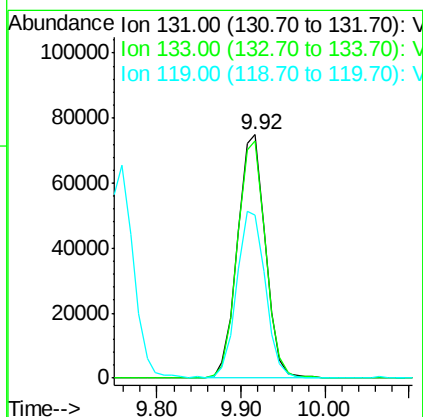
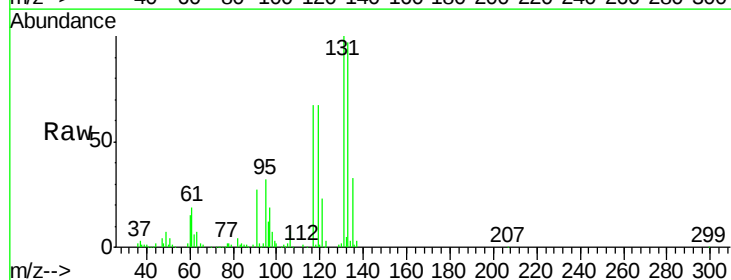
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

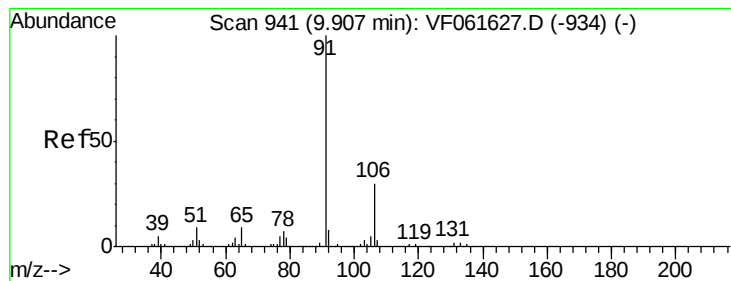
Tot Ion:112 Resp: 410934
Ion Ratio Lower Upper
112 100
114 33.9 26.2 39.2



#66
1,1,1,2-Tetrachloroethane
Concen: 51.348 ug/l
RT: 9.92 min Scan# 942
Delta R.T. -0.02 min
Lab File: VF061762.D
Acq: 27 Feb 2019 12:53

Tgt Ion:131 Resp: 173139
Ion Ratio Lower Upper
131 100
133 97.4 48.9 146.6
119 67.0 34.8 104.3





#67

Ethyl Benzene

Concen: 49.131 ug/l

RT: 9.89 min Scan# 939

Delta R.T. -0.02 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

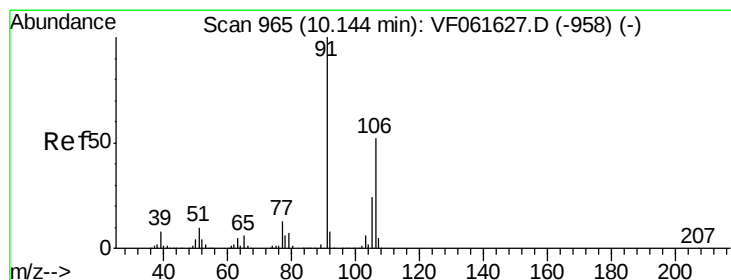
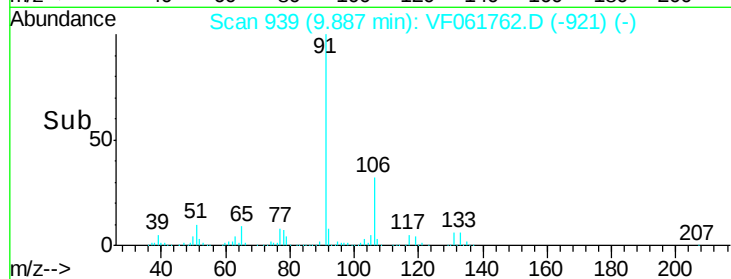
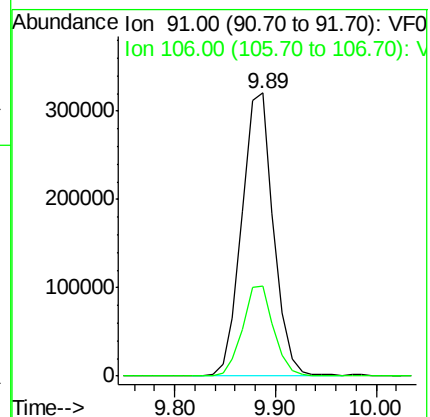
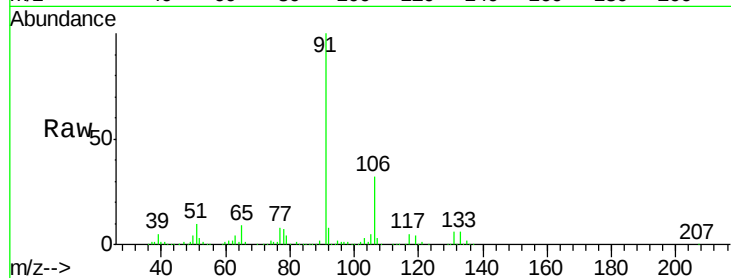
VSTDCCC050

Tot Ion: 91 Resp: 703066

Ion Ratio Lower Upper

91 100

106 31.6 24.1 36.1



#68

m/p-Xylenes

Concen: 99.754 ug/l

RT: 10.11 min Scan# 962

Delta R.T. -0.03 min

Lab File: VF061762.D

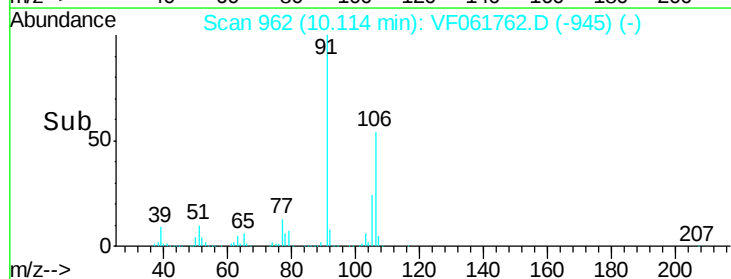
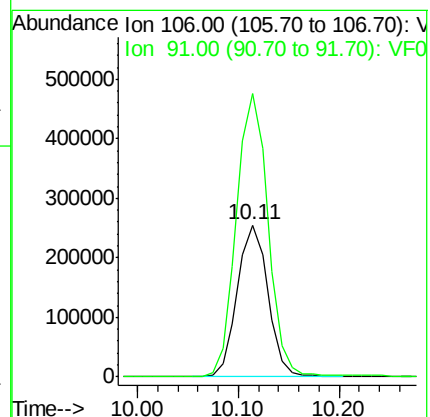
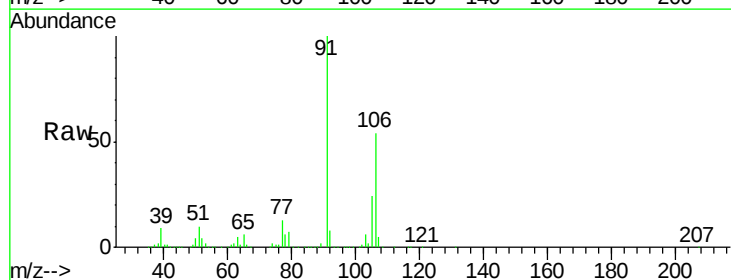
Acq: 27 Feb 2019 12:53

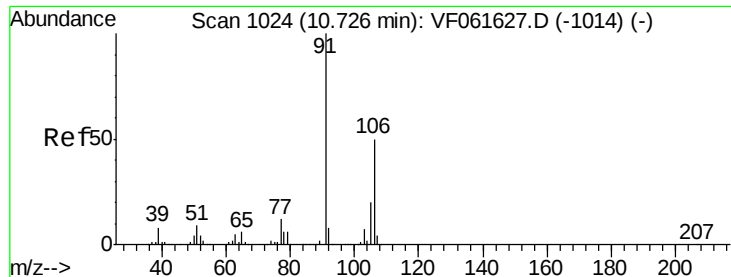
Tgt Ion: 106 Resp: 546321

Ion Ratio Lower Upper

106 100

91 186.3 153.0 229.6

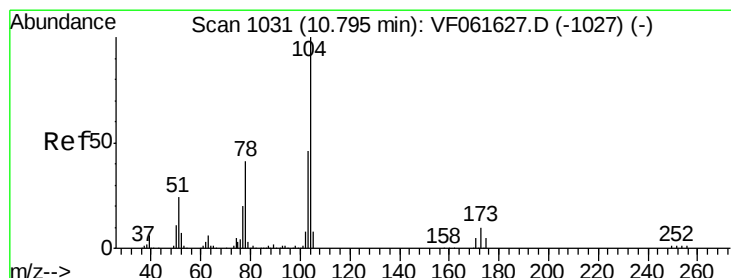
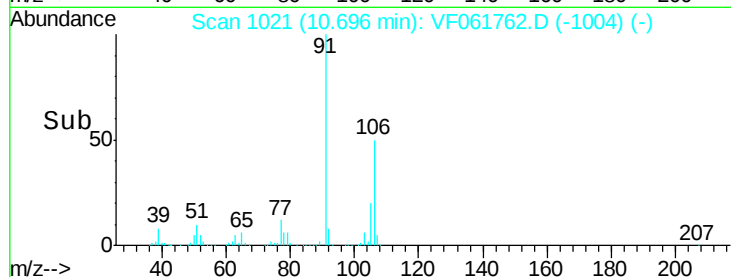
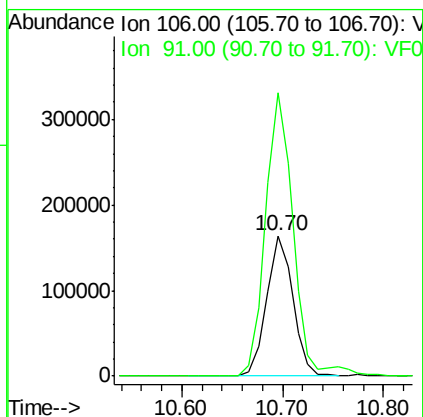
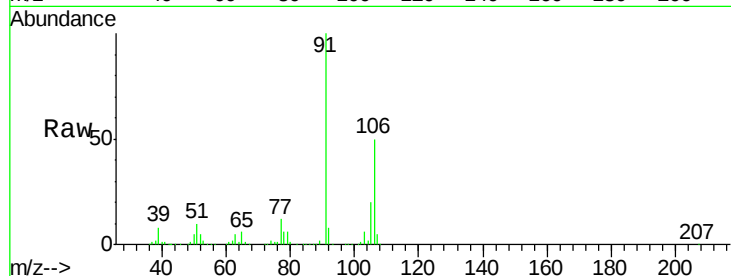




#69
o-Xylene
Concen: 50.797 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. -0.03 min
Lab File: VF061762.D
Acq: 27 Feb 2019 12:53

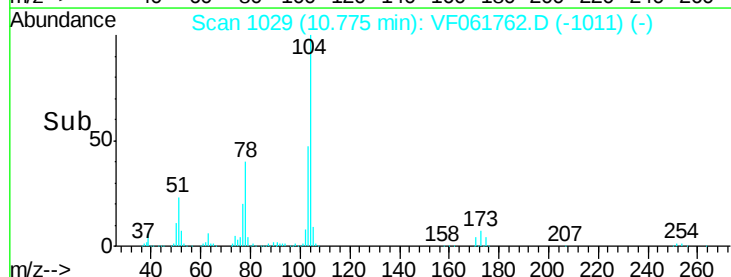
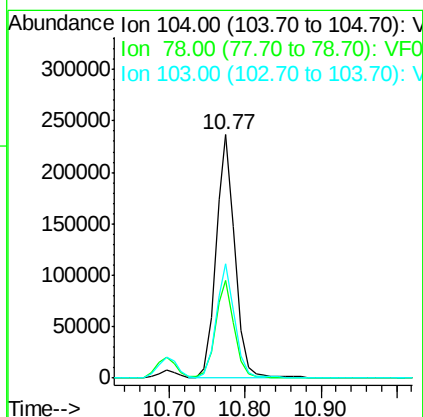
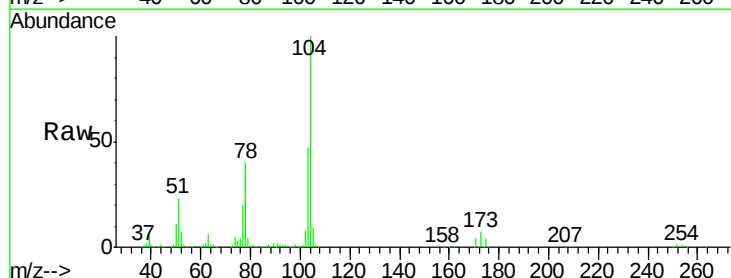
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

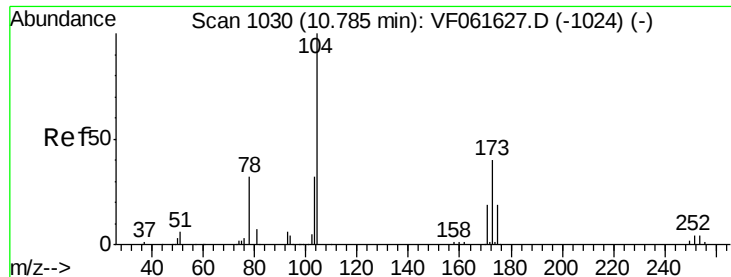
Tot Ion:106 Resp: 296852
Ion Ratio Lower Upper
106 100
91 201.3 100.1 300.1



#70
Styrene
Concen: 49.913 ug/l
RT: 10.77 min Scan# 1029
Delta R.T. -0.02 min
Lab File: VF061762.D
Acq: 27 Feb 2019 12:53

Tgt Ion:104 Resp: 412643
Ion Ratio Lower Upper
104 100
78 40.1 33.2 49.8
103 47.0 37.2 55.8





#71

Bromoform

Concen: 48.583 ug/l

RT: 10.75 min Scan# 1027

Delta R.T. -0.03 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

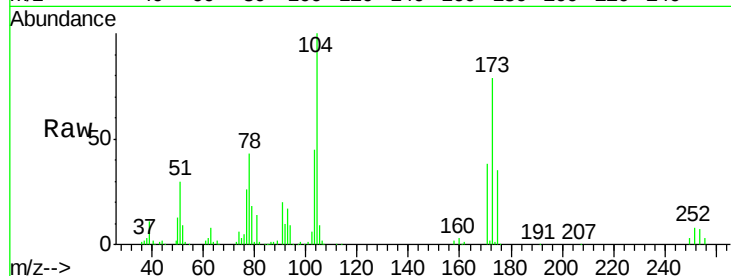
Tot Ion:173 Resp: 88956

Ion Ratio Lower Upper

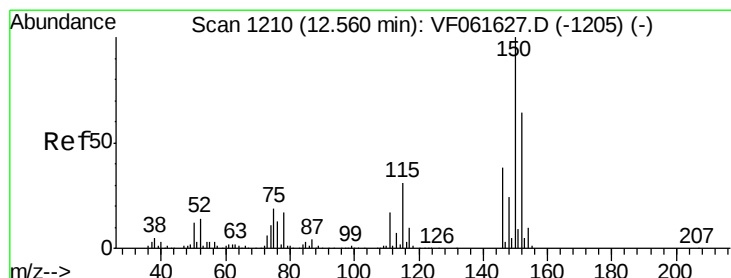
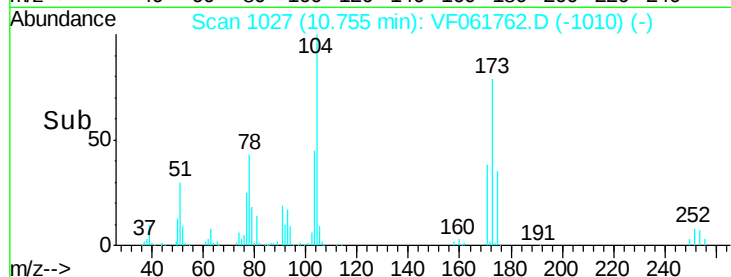
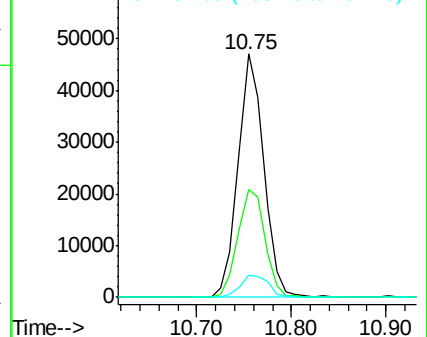
173 100

175 44.2 24.0 72.0

254 9.3 8.2 12.2



Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. -0.02 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

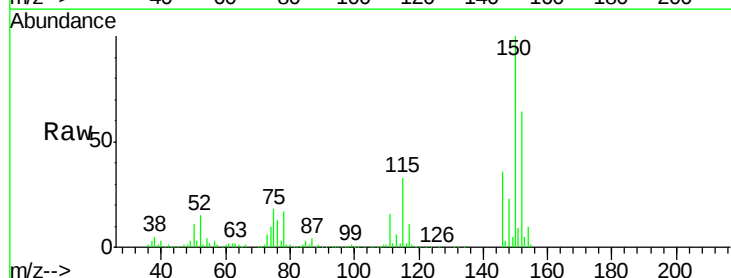
Tgt Ion:152 Resp: 224707

Ion Ratio Lower Upper

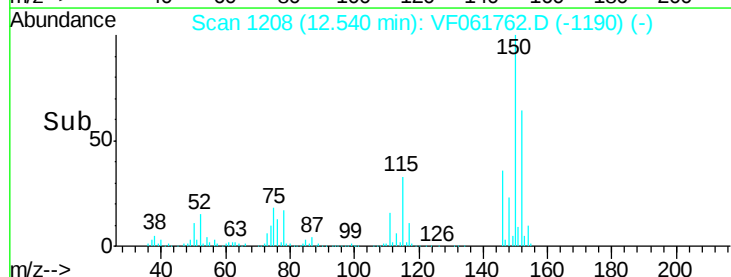
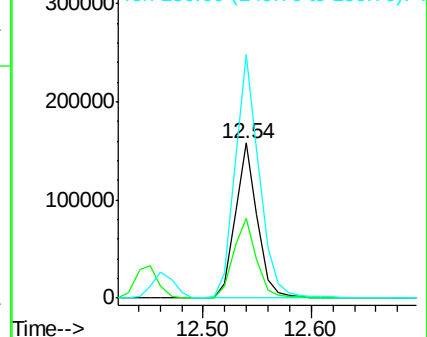
152 100

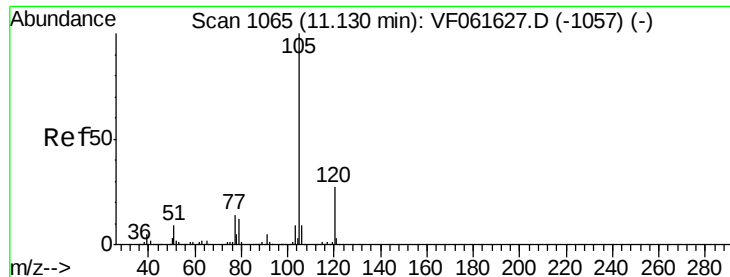
115 51.1 24.3 72.8

150 156.8 0.0 312.0



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 52.322 ug/l

RT: 11.11 min Scan# 1063

Delta R.T. -0.02 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

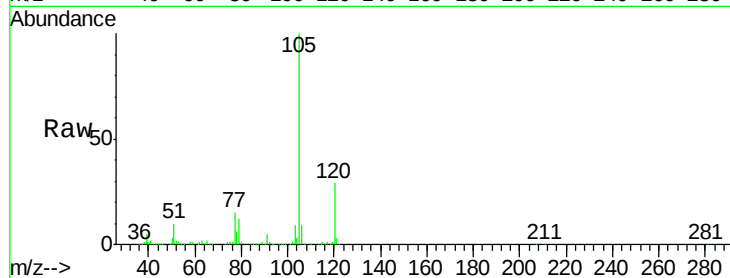
VSTDCCC050

Tot Ion:105 Resp: 837082

Ion Ratio Lower Upper

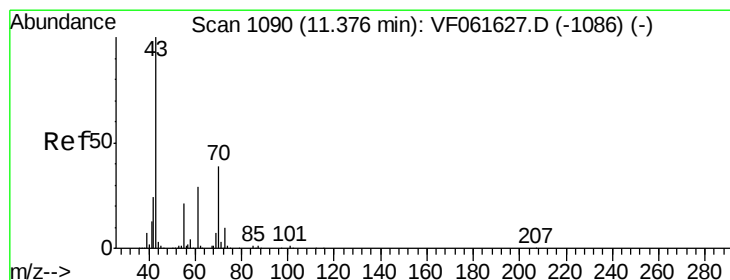
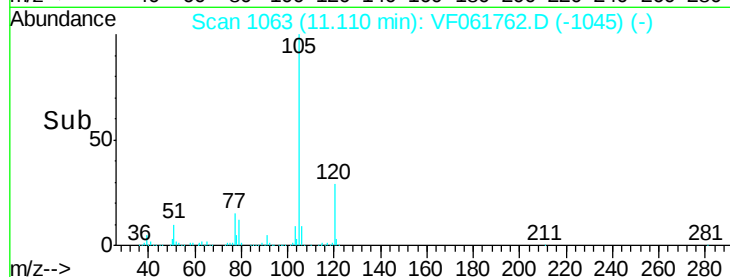
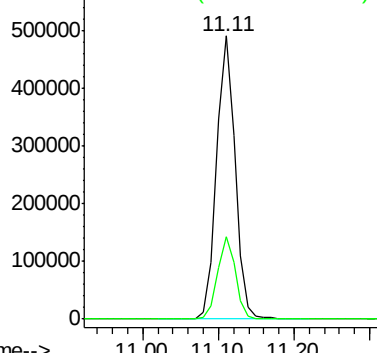
105 100

120 29.1 13.4 40.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 50.155 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.02 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

Tgt Ion: 43 Resp: 192600

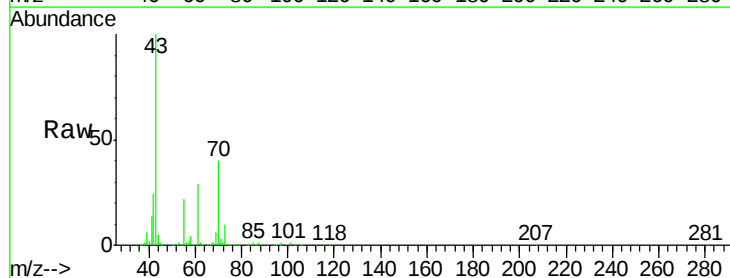
Ion Ratio Lower Upper

43 100

70 40.0 31.5 47.3

55 22.0 16.7 25.1

61 29.4 23.0 34.6

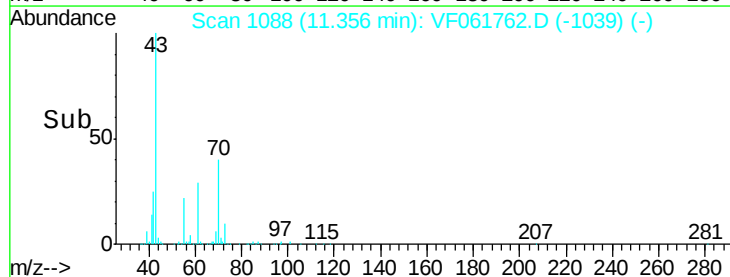
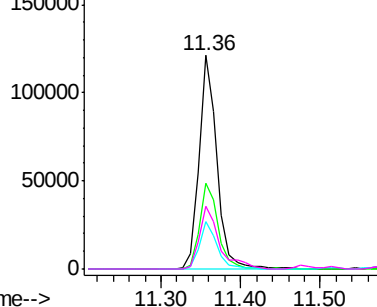


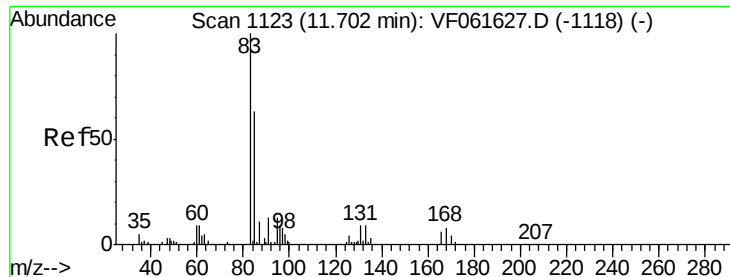
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 49.282 ug/l

RT: 11.68 min Scan# 1121

Delta R.T. -0.02 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

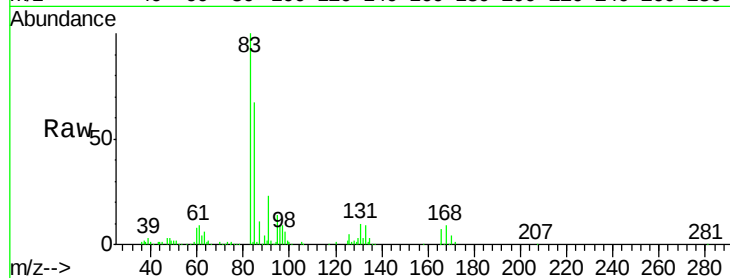
Tot Ion: 83 Resp: 141254

Ion Ratio Lower Upper

83 100

131 9.6 4.4 13.2

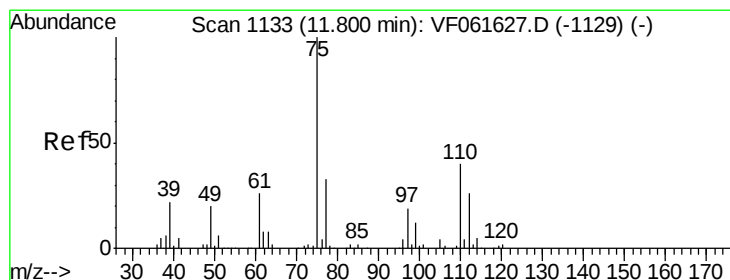
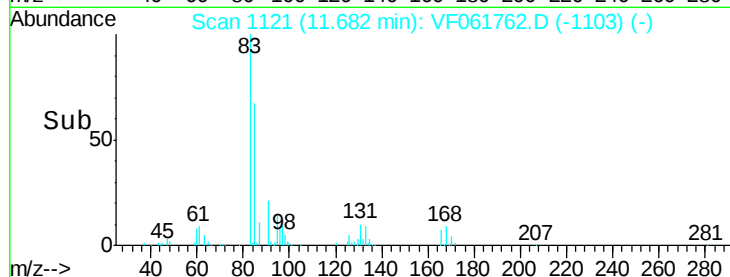
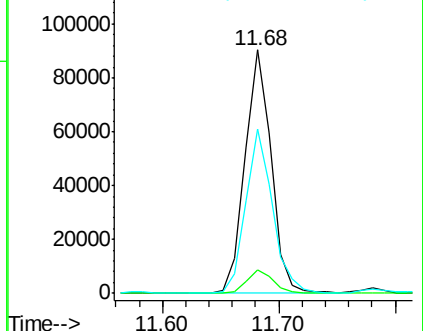
85 67.4 31.5 94.5



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 46.837 ug/l

RT: 11.78 min Scan# 1131

Delta R.T. -0.02 min

Lab File: VF061762.D

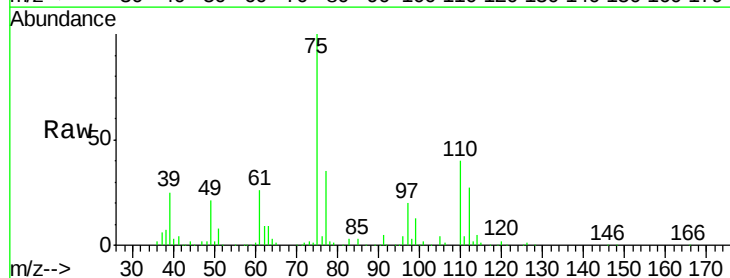
Acq: 27 Feb 2019 12:53

Tgt Ion: 75 Resp: 91272

Ion Ratio Lower Upper

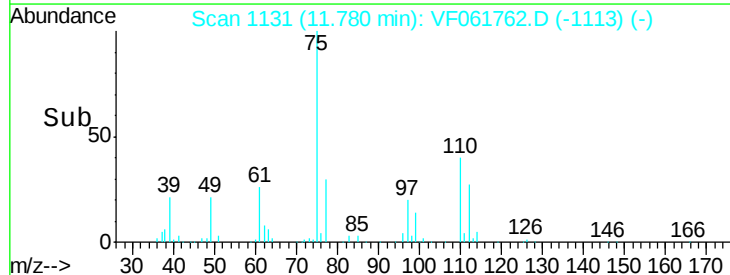
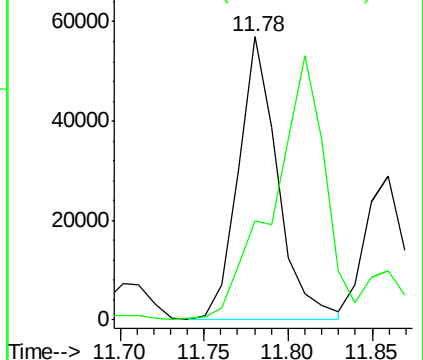
75 100

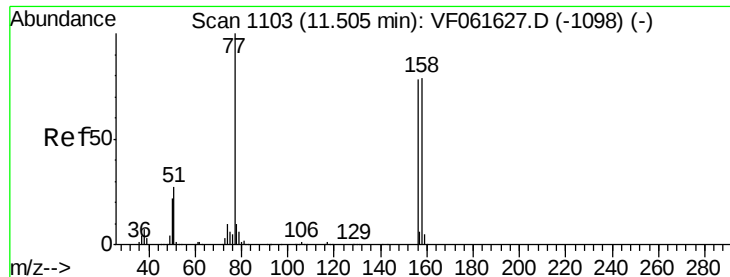
77 35.0 16.6 49.7



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 51.671 ug/l

RT: 11.48 min Scan# 1101

Delta R.T. -0.02 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

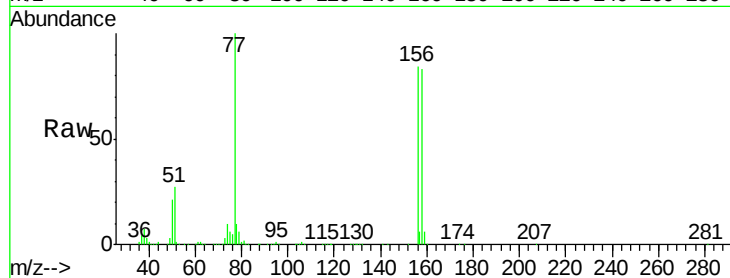
Tot Ion:156 Resp: 204226

Ion Ratio Lower Upper

156 100

77 118.5 64.3 192.7

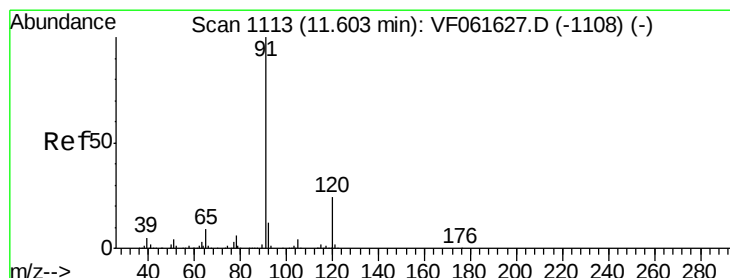
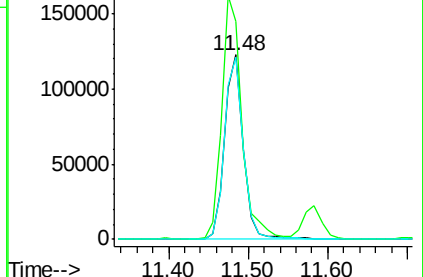
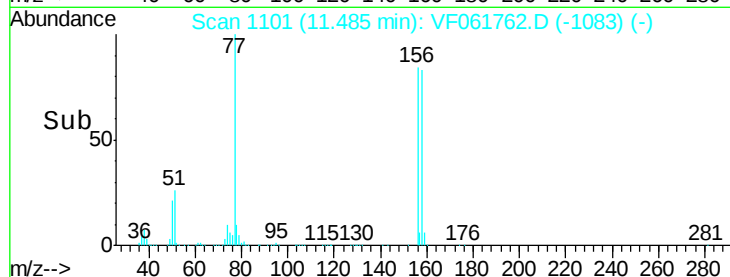
158 98.4 50.9 152.7



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 51.002 ug/l

RT: 11.58 min Scan# 1111

Delta R.T. -0.02 min

Lab File: VF061762.D

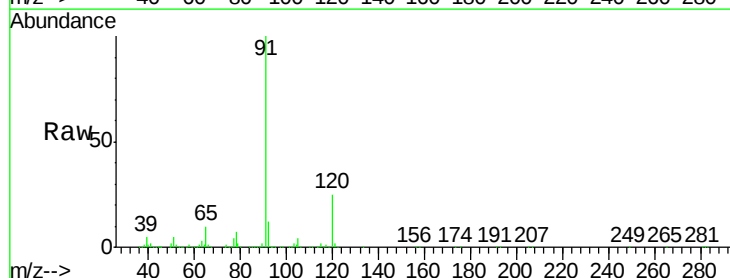
Acq: 27 Feb 2019 12:53

Tgt Ion: 91 Resp: 936345

Ion Ratio Lower Upper

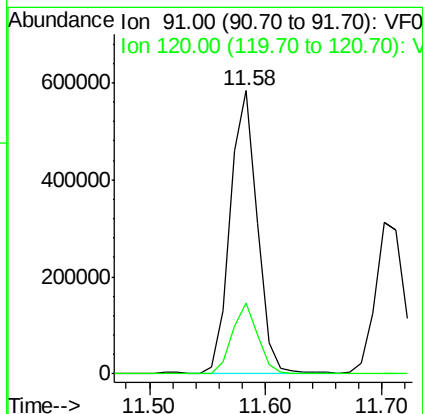
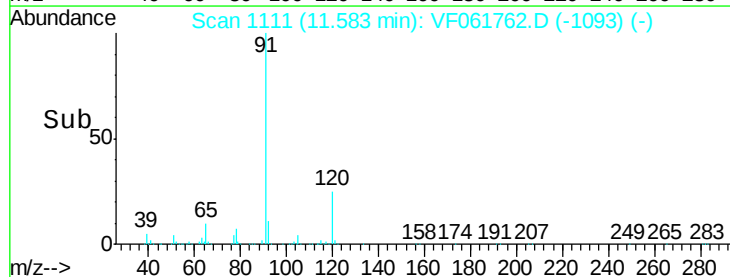
91 100

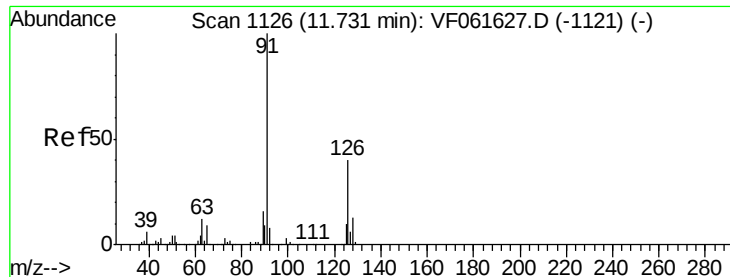
120 24.9 12.1 36.3



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 50.949 ug/l

RT: 11.70 min Scan# 1123

Delta R.T. -0.03 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

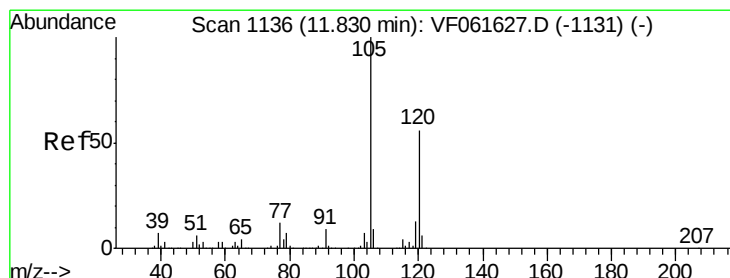
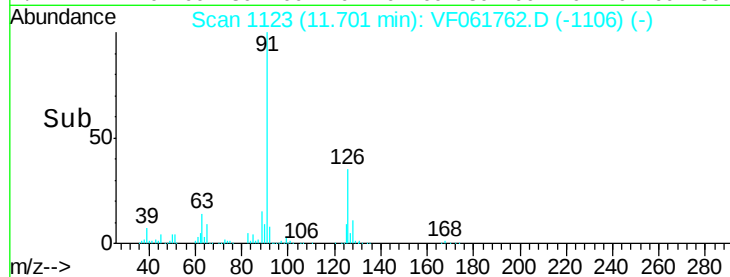
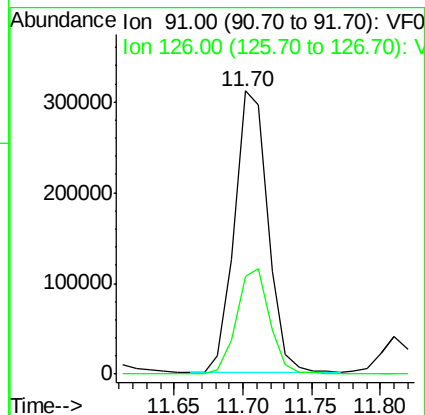
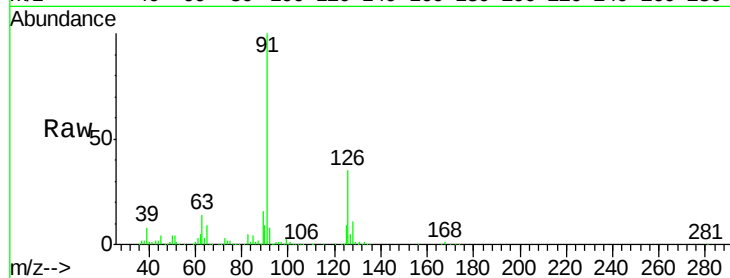
VSTDCCC050

Tot Ion: 91 Resp: 523853

Ion Ratio Lower Upper

91 100

126 34.5 19.8 59.4



#80

1,3,5-Trimethylbenzene

Concen: 51.651 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. -0.02 min

Lab File: VF061762.D

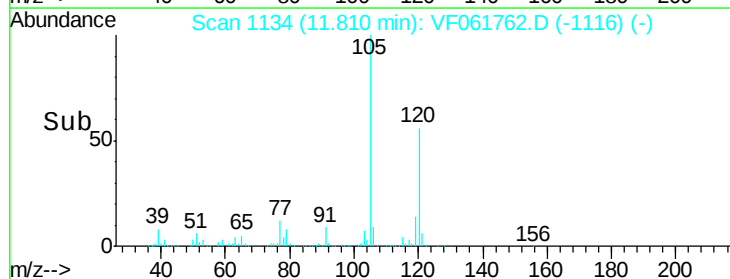
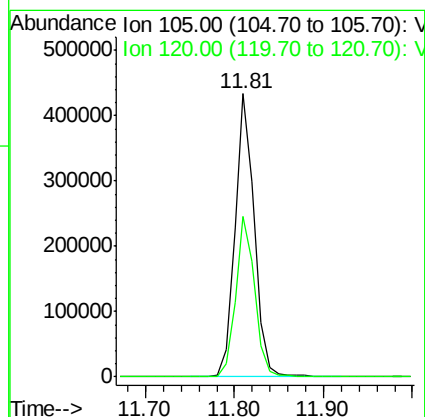
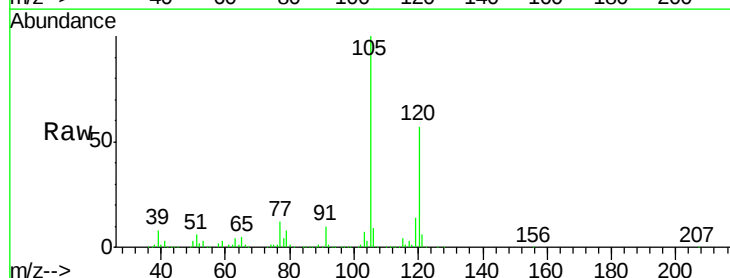
Acq: 27 Feb 2019 12:53

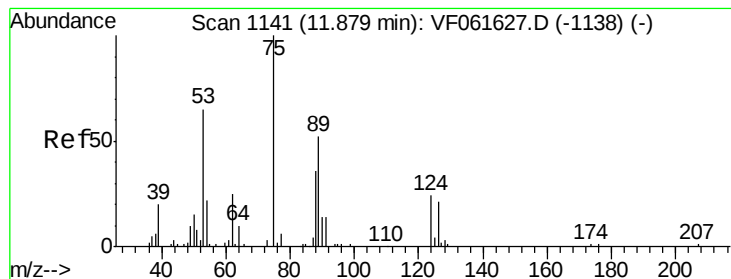
Tgt Ion:105 Resp: 660446

Ion Ratio Lower Upper

105 100

120 56.6 27.9 83.6





#81

trans-1,4-Dichloro-2-butene

Concen: 53.110 ug/l m

RT: 11.86 min Scan# 1139

Delta R.T. -0.02 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

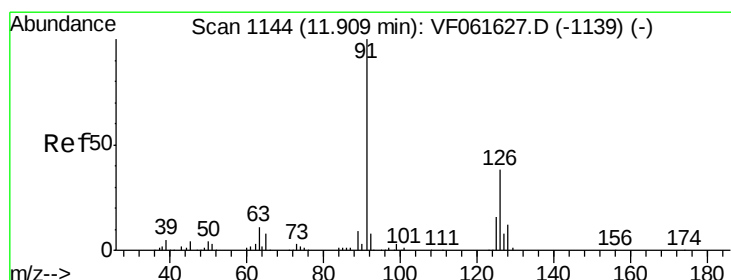
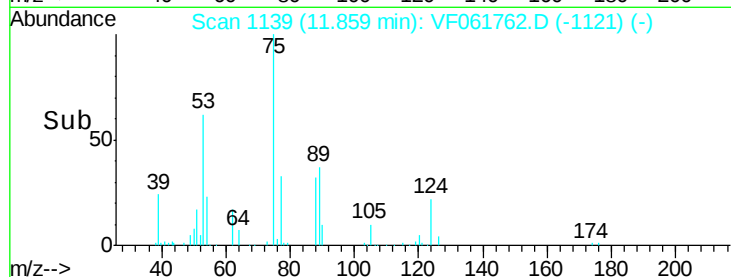
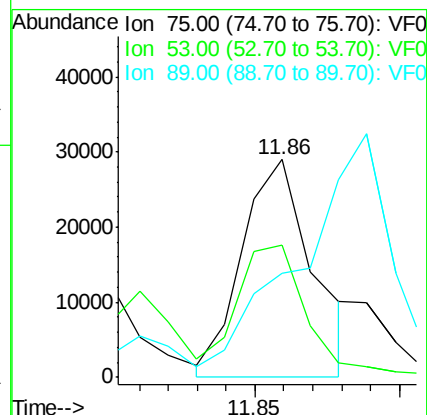
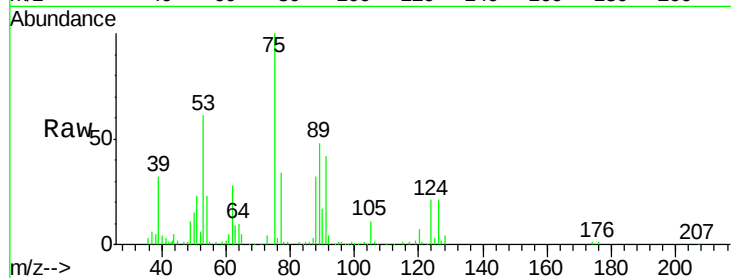
Tot Ion: 75 Resp: 49617

Ion Ratio Lower Upper

75 100

53 60.9 53.7 80.5

89 48.0 41.6 62.4



#82

4-Chlorotoluene

Concen: 49.805 ug/l

RT: 11.89 min Scan# 1142

Delta R.T. -0.02 min

Lab File: VF061762.D

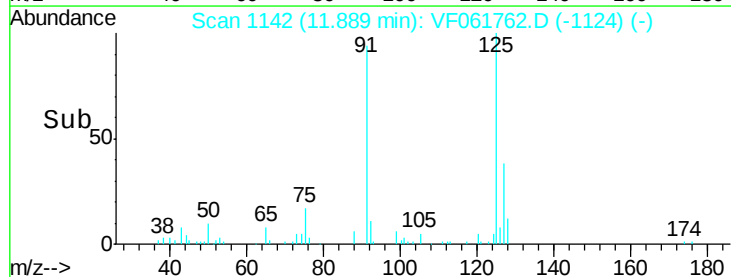
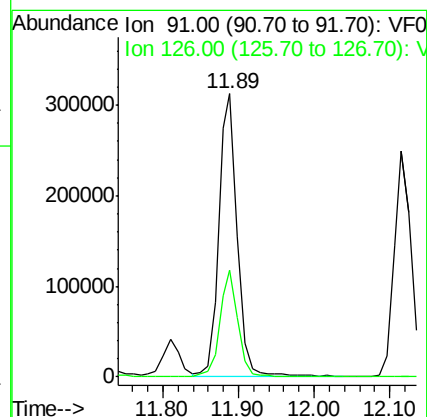
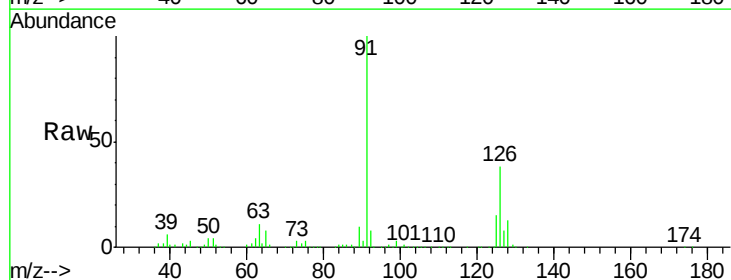
Acq: 27 Feb 2019 12:53

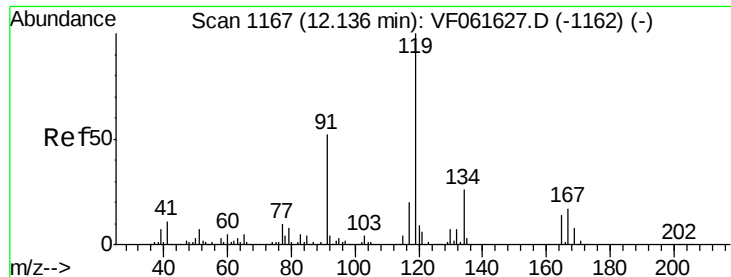
Tgt Ion: 91 Resp: 531528

Ion Ratio Lower Upper

91 100

126 37.7 19.1 57.1

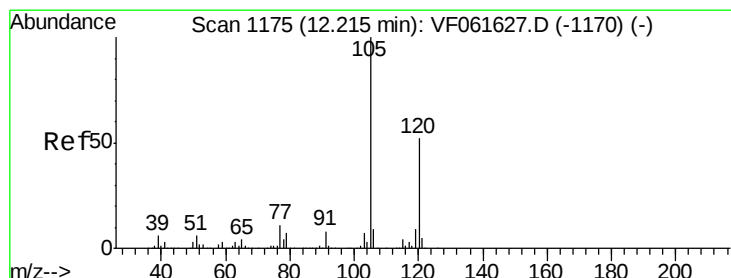
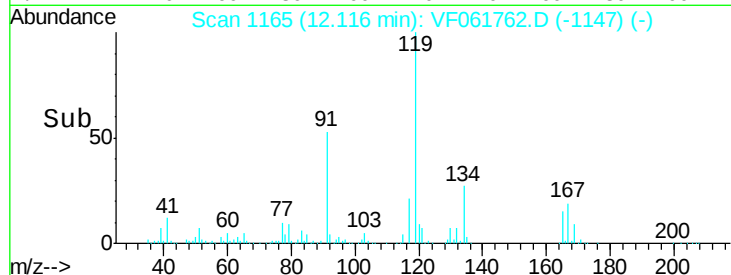
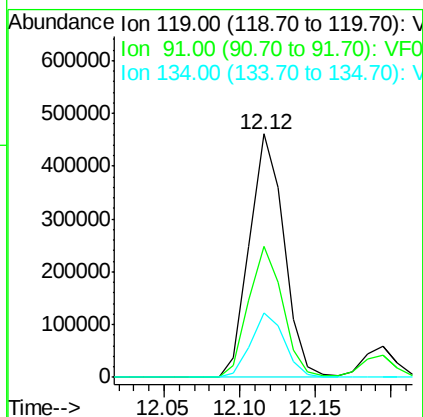
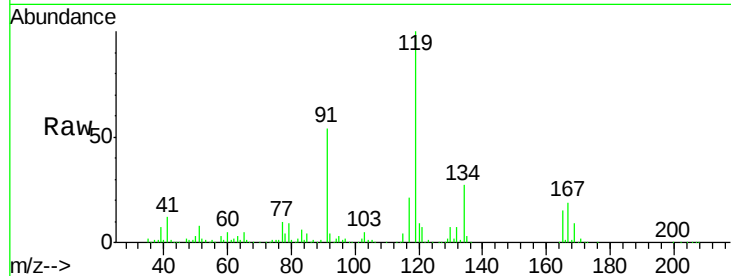




#83
tert-Butylbenzene
Concen: 52.112 ug/l
RT: 12.12 min Scan# 1165
Delta R.T. -0.02 min
Lab File: VF061762.D
Acq: 27 Feb 2019 12:53

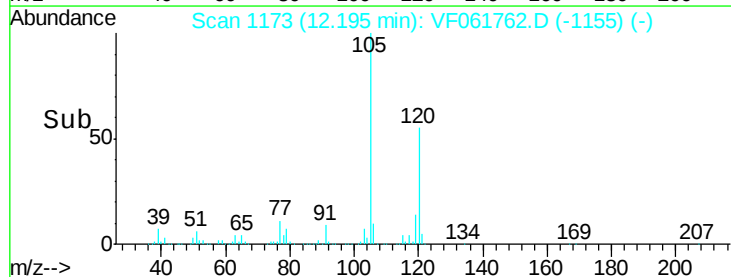
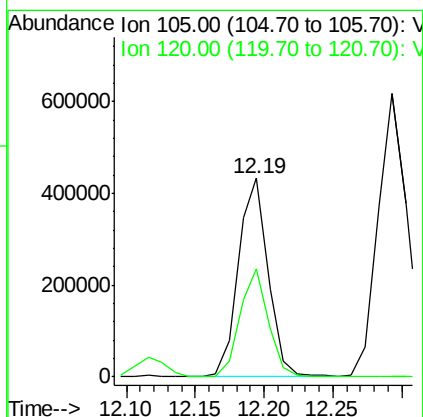
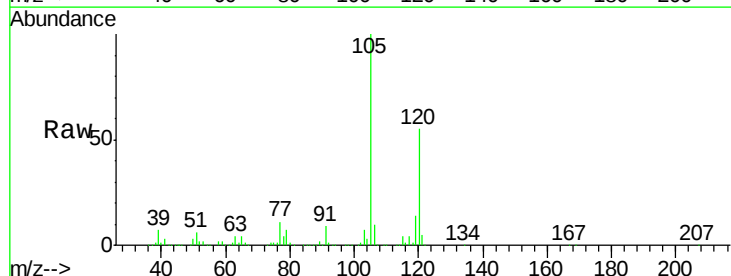
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

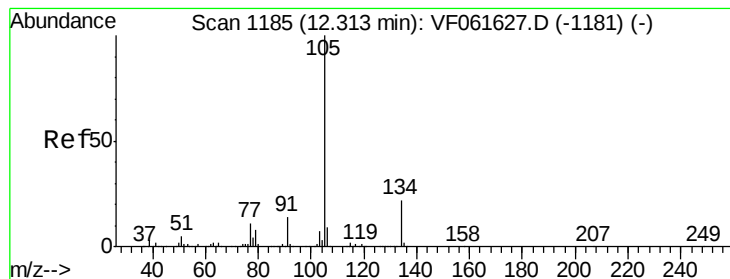
Tot Ion:119 Resp: 738045
Ion Ratio Lower Upper
119 100
91 54.0 26.3 78.8
134 26.5 12.9 38.7



#84
1,2,4-Trimethylbenzene
Concen: 51.530 ug/l
RT: 12.19 min Scan# 1173
Delta R.T. -0.02 min
Lab File: VF061762.D
Acq: 27 Feb 2019 12:53

Tgt Ion:105 Resp: 654608
Ion Ratio Lower Upper
105 100
120 54.8 26.1 78.3





#85

sec-Butylbenzene

Concen: 50.381 ug/l

RT: 12.29 min Scan# 1183

Delta R.T. -0.02 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

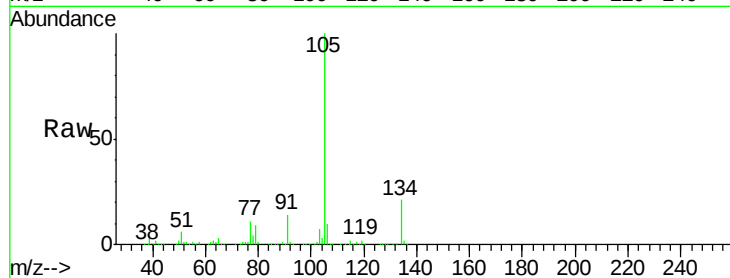
VSTDCCC050

Tot Ion:105 Resp: 922714

Ion Ratio Lower Upper

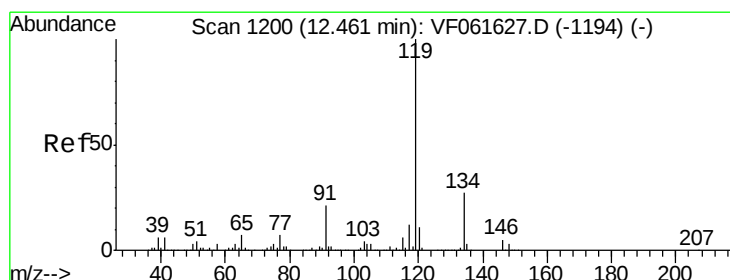
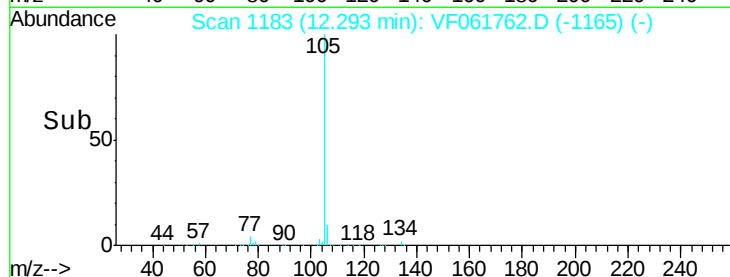
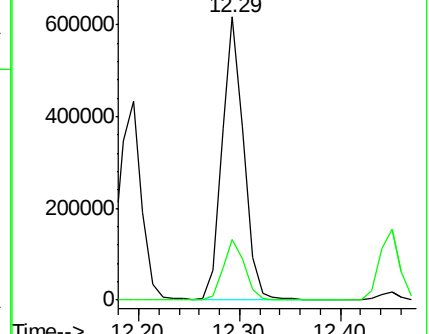
105 100

134 21.4 10.8 32.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 51.577 ug/l

RT: 12.45 min Scan# 1199

Delta R.T. -0.01 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

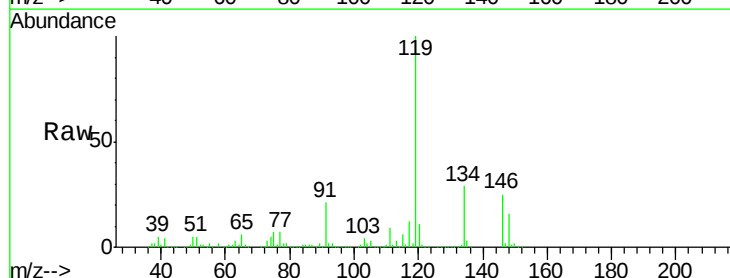
Tgt Ion:119 Resp: 792771

Ion Ratio Lower Upper

119 100

134 28.8 13.7 41.1

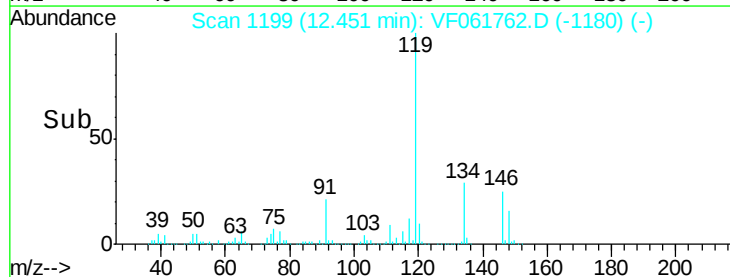
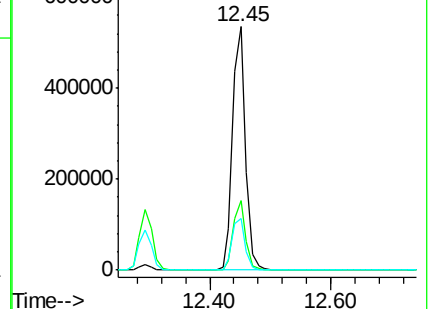
91 21.4 10.8 32.4

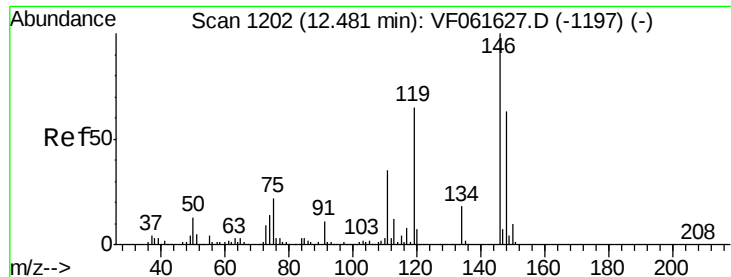


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0

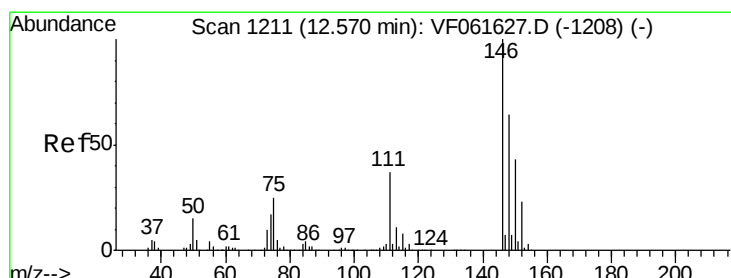
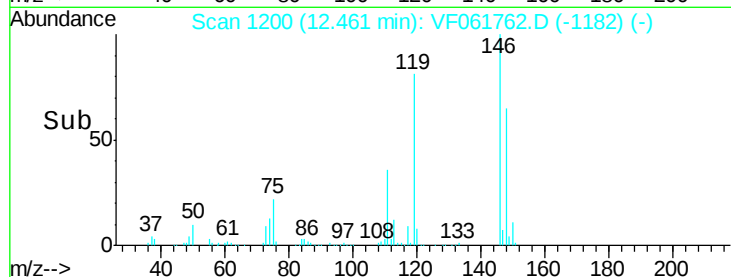
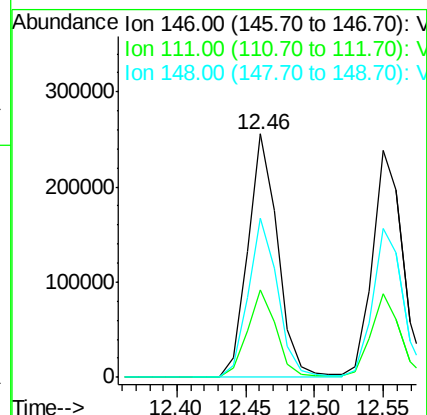
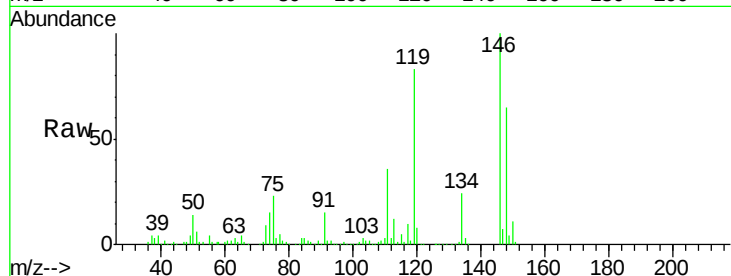




#87
 1,3-Dichlorobenzene
 Concen: 50.375 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.02 min
 Lab File: VF061762.D
 Acq: 27 Feb 2019 12:53

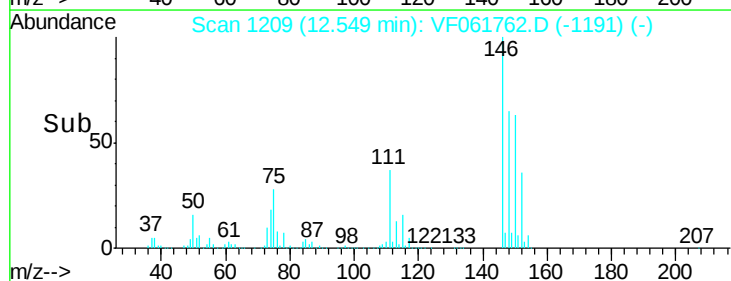
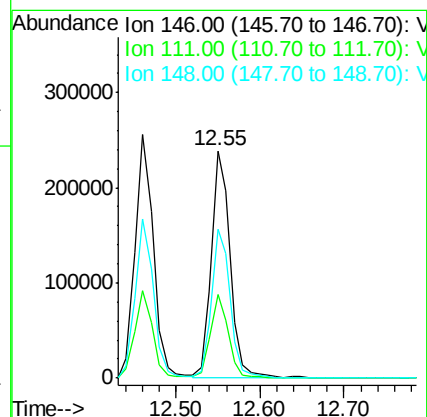
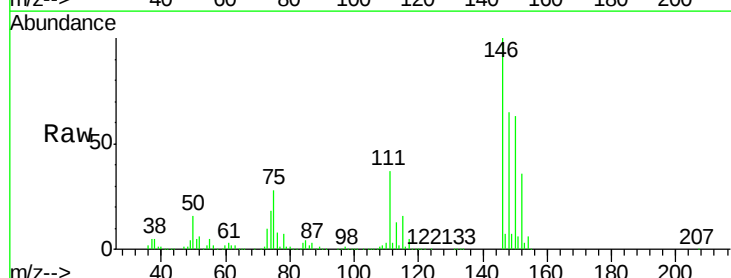
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

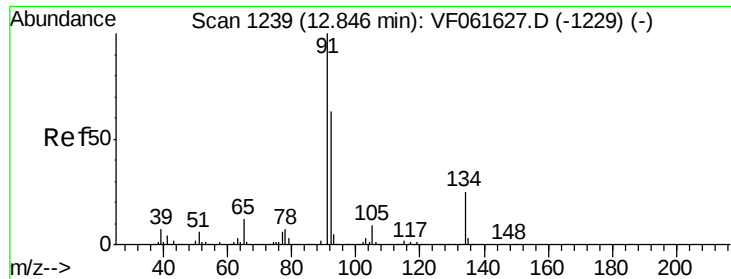
Tot Ion:146 Resp: 388148
 Ion Ratio Lower Upper
 146 100
 111 35.7 17.5 52.6
 148 65.3 31.4 94.3



#88
 1,4-Dichlorobenzene
 Concen: 50.104 ug/l
 RT: 12.55 min Scan# 1209
 Delta R.T. -0.02 min
 Lab File: VF061762.D
 Acq: 27 Feb 2019 12:53

Tgt Ion:146 Resp: 371287
 Ion Ratio Lower Upper
 146 100
 111 36.6 18.4 55.4
 148 65.1 32.2 96.6

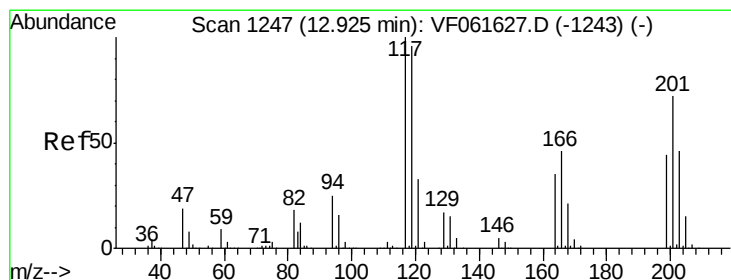
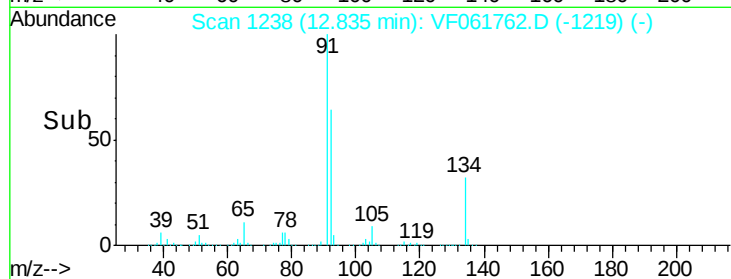
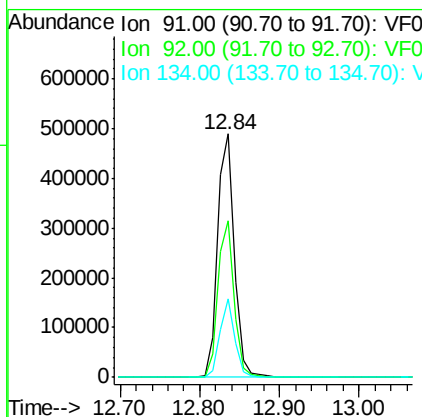
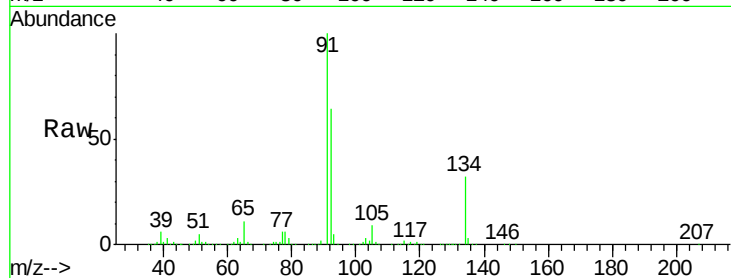




#89
n-Butylbenzene
Concen: 49.910 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. -0.01 min
Lab File: VF061762.D
Acq: 27 Feb 2019 12:53

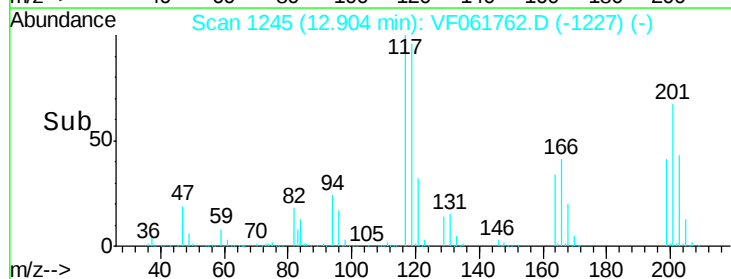
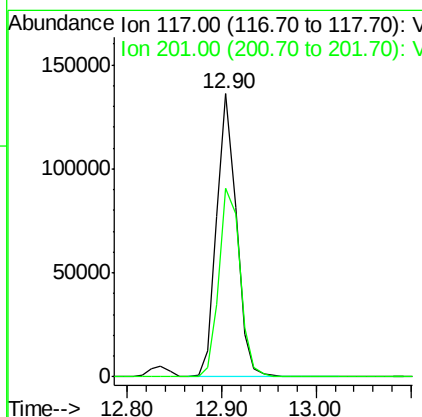
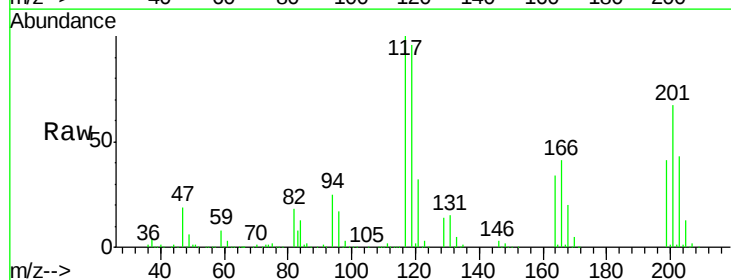
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

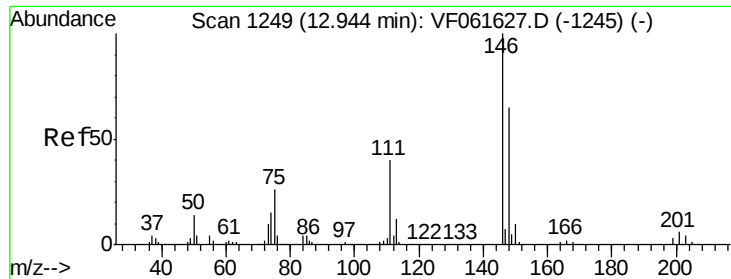
Tot Ion: 91 Resp: 724394
Ion Ratio Lower Upper
91 100
92 64.1 31.4 94.3
134 32.4 12.3 36.9



#90
Hexachloroethane
Concen: 55.604 ug/l
RT: 12.90 min Scan# 1245
Delta R.T. -0.02 min
Lab File: VF061762.D
Acq: 27 Feb 2019 12:53

Tgt Ion: 117 Resp: 198770
Ion Ratio Lower Upper
117 100
201 66.7 36.2 108.6

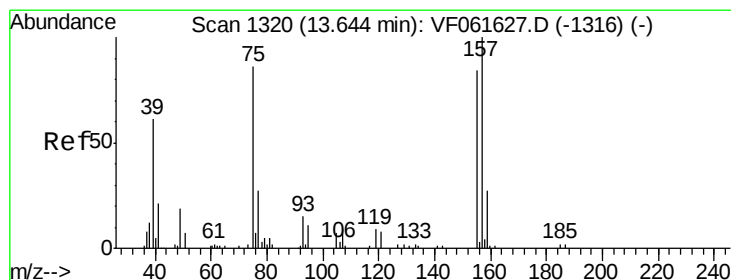
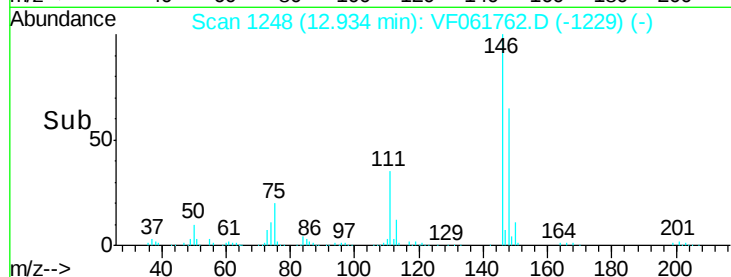
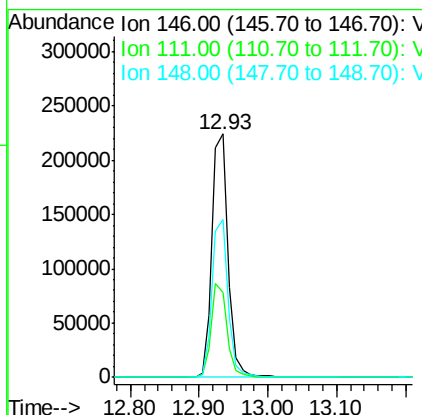
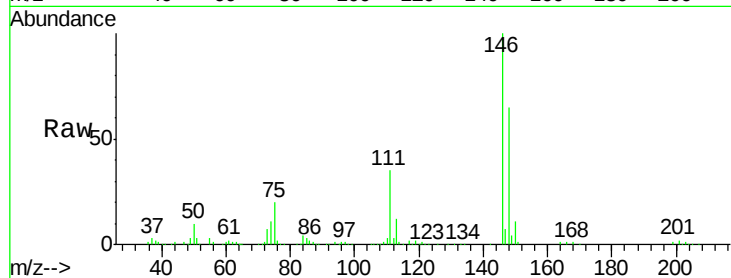




#91
 1,2-Dichlorobenzene
 Concen: 49.270 ug/l
 RT: 12.93 min Scan# 1248
 Delta R.T. -0.01 min
 Lab File: VF061762.D
 Acq: 27 Feb 2019 12:53

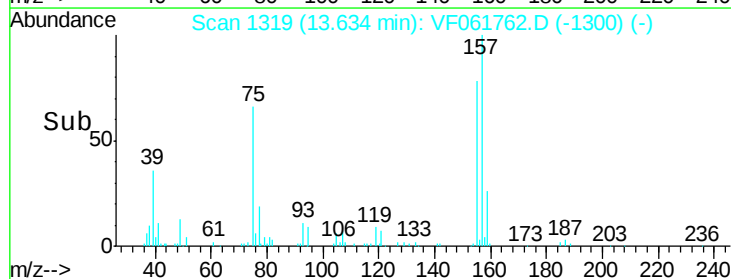
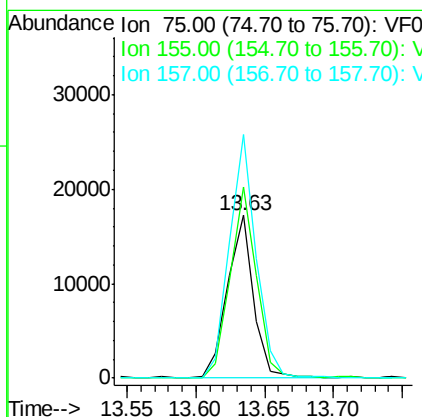
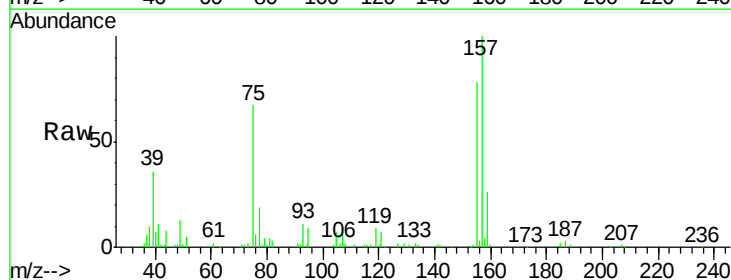
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

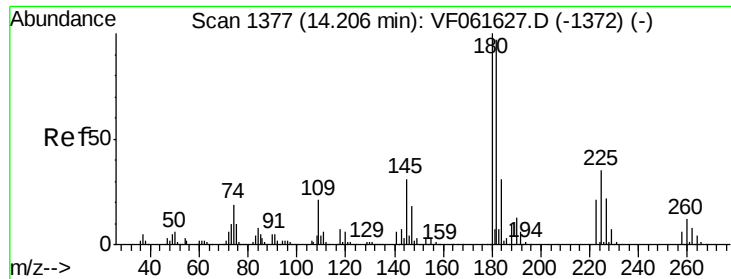
Tot Ion:146 Resp: 361099
 Ion Ratio Lower Upper
 146 100
 111 34.8 20.2 60.5
 148 65.0 32.3 96.9



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 49.983 ug/l
 RT: 13.63 min Scan# 1319
 Delta R.T. -0.01 min
 Lab File: VF061762.D
 Acq: 27 Feb 2019 12:53

Tgt Ion: 75 Resp: 22714
 Ion Ratio Lower Upper
 75 100
 155 117.4 48.9 146.8
 157 149.9 58.3 174.8

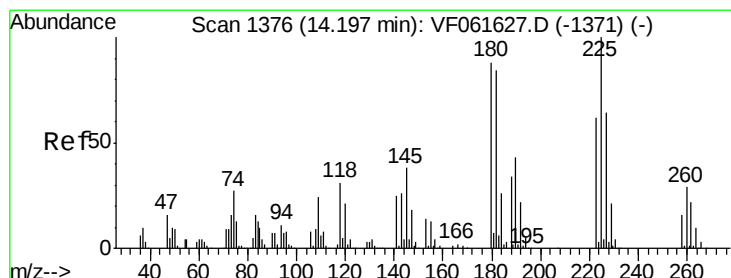
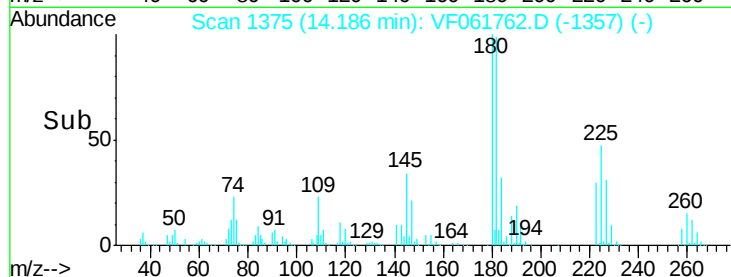
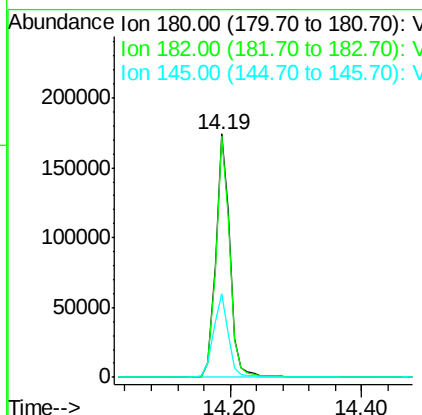
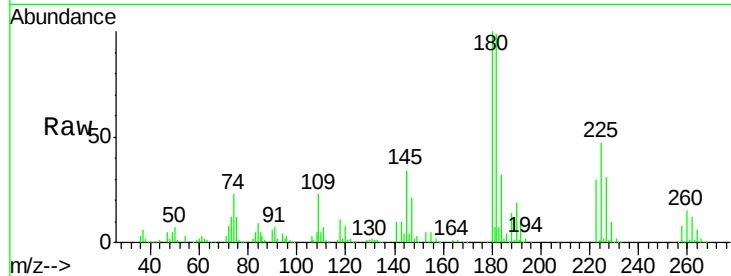




#93
 1,2,4-Trichlorobenzene
 Concen: 48.804 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.02 min
 Lab File: VF061762.D
 Acq: 27 Feb 2019 12:53

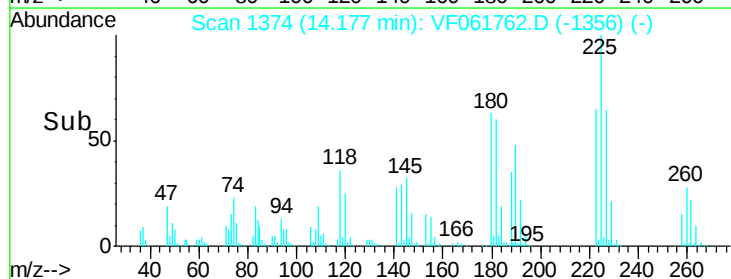
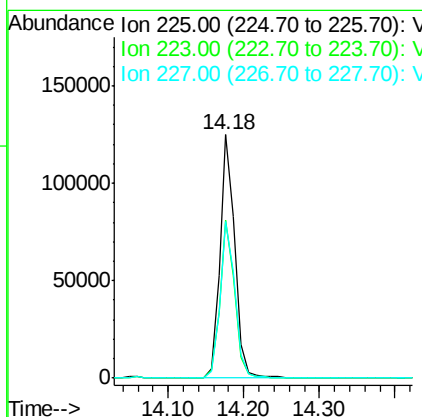
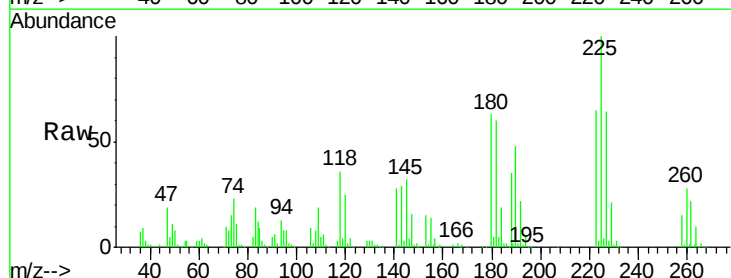
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

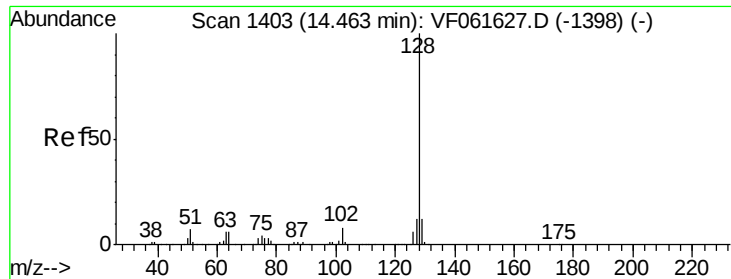
Tot Ion:180 Resp: 256375
 Ion Ratio Lower Upper
 180 100
 182 99.2 48.6 145.9
 145 34.5 15.3 45.9



#94
 Hexachlorobutadiene
 Concen: 53.068 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.02 min
 Lab File: VF061762.D
 Acq: 27 Feb 2019 12:53

Tgt Ion:225 Resp: 172172
 Ion Ratio Lower Upper
 225 100
 223 64.6 30.9 92.7
 227 64.2 32.1 96.3





#95

Naphthalene

Concen: 51.977 ug/l

RT: 14.44 min Scan# 1401

Delta R.T. -0.02 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

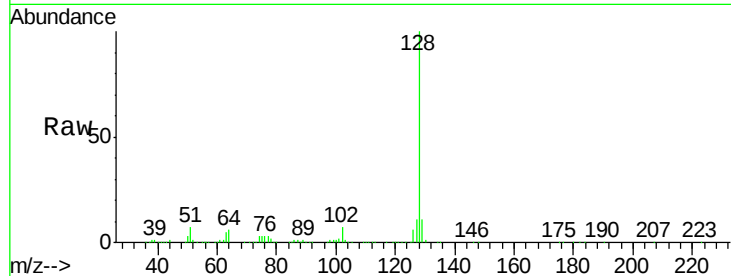
Tot Ion:128 Resp: 477725

Ion Ratio Lower Upper

128 100

127 11.4 9.8 14.6

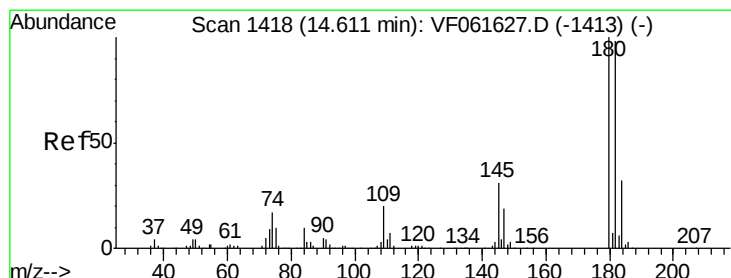
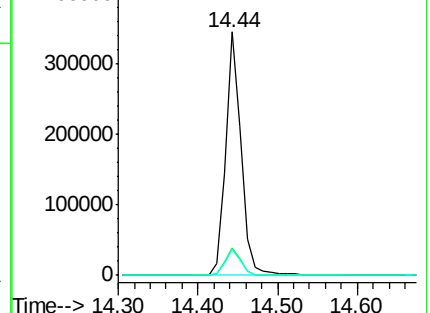
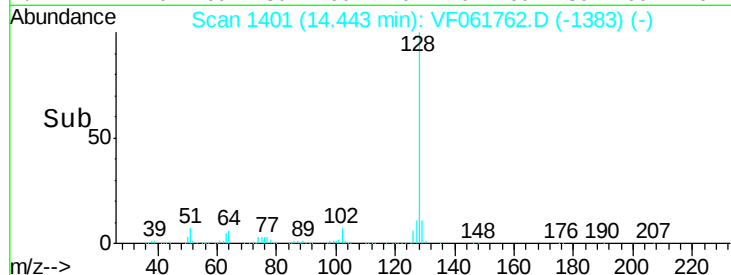
129 10.9 9.4 14.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 51.732 ug/l

RT: 14.59 min Scan# 1416

Delta R.T. -0.02 min

Lab File: VF061762.D

Acq: 27 Feb 2019 12:53

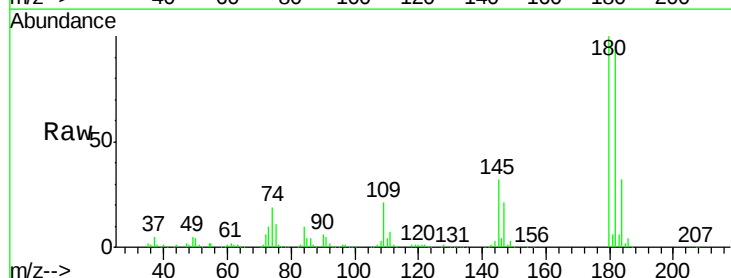
Tgt Ion:180 Resp: 249432

Ion Ratio Lower Upper

180 100

182 94.5 49.0 147.2

145 31.8 15.4 46.1



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

