

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031319\
 Data File : VF061927.D
 Acq On : 13 Mar 2019 15:00
 Operator : VA/AP
 Sample : VF0313SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0313SBS01

Quant Time: Mar 14 01:30:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:50:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	299380	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.57	114	448375	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.75	117	357786	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.53	152	197635	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	126120	57.85	ug/l	-0.03
Spiked Amount				50.000		
			Recovery	=	115.70%	
35) Dibromofluoromethane	4.09	113	176365	56.36	ug/l	-0.03
Spiked Amount				50.000		
			Recovery	=	112.72%	
50) Toluene-d8	7.53	98	488932	52.57	ug/l	-0.03
Spiked Amount				50.000		
			Recovery	=	105.14%	
62) 4-Bromofluorobenzene	11.40	95	186654	51.23	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	102.46%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	84561	23.007	ug/l	95
3) Chloromethane	1.10	50	86349	24.241	ug/l	90
4) Vinyl Chloride	1.14	62	82920	24.522	ug/l	99
5) Bromomethane	1.30	94	52671	22.856	ug/l	88
6) Chloroethane	1.40	64	41848	26.035	ug/l	89
7) Trichlorofluoromethane	1.47	101	98496m	23.849	ug/l	
8) Diethyl Ether	1.63	74	22284	23.728	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	1.84	101	73426	26.181	ug/l	99
10) Methyl Iodide	1.90	142	125112m	23.442	ug/l	
11) Tert butyl alcohol	2.56	59	14141	114.273	ug/l	94
12) 1,1-Dichloroethene	1.80	96	61569	24.046	ug/l	95
13) Acrolein	1.99	56	16422	104.731	ug/l	98
14) Allyl chloride	2.08	41	79038	28.020	ug/l	95
15) Acrylonitrile	2.93	53	48575	123.273	ug/l	98
16) Acetone	2.23	43	58994	129.176	ug/l	96
17) Carbon Disulfide	1.81	76	186653m	23.419	ug/l	
18) Methyl Acetate	2.33	43	22179	24.247	ug/l	93
19) Methyl tert-butyl Ether	2.42	73	100986	23.315	ug/l	99
20) Methylene Chloride	2.17	84	63012m	21.877	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	63680	26.426	ug/l	87
22) Diisopropyl ether	2.78	45	181209	24.696	ug/l	98
23) Vinyl Acetate	3.18	43	365253	111.429	ug/l	99
24) 1,1-Dichloroethane	2.86	63	109274	24.916	ug/l	99
25) 2-Butanone	4.32	43	110394	118.837	ug/l	96
26) 2,2-Dichloropropane	3.58	77	45995	23.493	ug/l	98
27) cis-1,2-Dichloroethene	3.45	96	80048	23.977	ug/l	99
28) Bromochloromethane	3.70	49	45587	23.846	ug/l #	93
29) Tetrahydrofuran	4.05	42	45887	114.537	ug/l	96
30) Chloroform	3.84	83	116584	23.273	ug/l	92
31) Cyclohexane	3.68	56	106340m	23.150	ug/l	
32) 1,1,1-Trichloroethane	4.07	97	70826	22.938	ug/l	95
36) 1,1-Dichloropropene	4.26	75	98673	23.297	ug/l	100
37) Ethyl Acetate	4.08	43	39999	22.500	ug/l #	89
38) Carbon Tetrachloride	3.97	117	71156	23.733	ug/l	99

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.42	83	112548	22.498	ug/l	95
40) Benzene	4.62	78	246820	22.295	ug/l	97
41) Methacrylonitrile	4.71	41	23205	23.824	ug/l	98
42) 1,2-Dichloroethane	4.92	62	60675	21.992	ug/l	99
43) Isopropyl Acetate	6.94	43	44982	20.527	ug/l	92
44) Trichloroethene	5.48	130	74993	21.797	ug/l	97
45) 1,2-Dichloropropane	6.21	63	57721	21.926	ug/l	97
46) Dibromomethane	6.07	93	36338	21.932	ug/l	99
47) Bromodichloromethane	6.36	83	81482	22.261	ug/l	100
48) Methyl methacrylate	6.70	41	26925	19.414	ug/l	96
49) 1,4-Dioxane	6.69	88	5165	407.401	ug/l #	82
51) 4-Methyl-2-Pentanone	8.23	43	169927	112.198	ug/l	98
52) Toluene	7.60	92	149422	22.815	ug/l	96
53) t-1,3-Dichloropropene	8.25	75	63738	21.095	ug/l #	86
54) cis-1,3-Dichloropropene	7.28	75	93076	22.333	ug/l	98
55) 1,1,2-Trichloroethane	8.47	97	38413	20.357	ug/l #	87
56) Ethyl methacrylate	8.60	69	43348	20.383	ug/l	97
57) 1,3-Dichloropropane	8.84	76	66368	21.506	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.28	63	41761	124.135	ug/l	97
59) 2-Hexanone	9.48	43	132428	121.204	ug/l	97
60) Dibromochloromethane	8.70	129	56110	20.863	ug/l	100
61) 1,2-Dibromoethane	8.96	107	42137	20.306	ug/l	97
64) Tetrachloroethene	8.14	164	62090	22.585	ug/l	94
65) Chlorobenzene	9.78	112	153729	22.364	ug/l	94
66) 1,1,1,2-Tetrachloroethane	9.91	131	65346	24.536	ug/l	96
67) Ethyl Benzene	9.88	91	267536	23.482	ug/l	100
68) m/p-Xylenes	10.12	106	208273	47.719	ug/l	93
69) o-Xylene	10.70	106	107675	22.911	ug/l	97
70) Styrene	10.77	104	156119	23.604	ug/l	98
71) Bromoform	10.76	173	30738	21.838	ug/l	98
73) Isopropylbenzene	11.11	105	326740	24.014	ug/l	100
74) N-amyl acetate	11.36	43	76726	24.495	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.69	83	51968	22.981	ug/l	97
76) 1,2,3-Trichloropropane	11.78	75	35319	22.884	ug/l	98
77) Bromobenzene	11.48	156	72853	22.248	ug/l	98
78) n-propylbenzene	11.58	91	364663	23.733	ug/l	100
79) 2-Chlorotoluene	11.71	91	205079	23.345	ug/l	100
80) 1,3,5-Trimethylbenzene	11.81	105	264251	24.190	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.85	75	16115m	22.834	ug/l	
82) 4-Chlorotoluene	11.88	91	199939	22.252	ug/l	100
83) tert-Butylbenzene	12.12	119	289384	24.948	ug/l	93
84) 1,2,4-Trimethylbenzene	12.19	105	253923	23.711	ug/l	94
85) sec-Butylbenzene	12.30	105	370840	24.567	ug/l	96
86) p-Isopropyltoluene	12.45	119	306772	23.909	ug/l	98
87) 1,3-Dichlorobenzene	12.47	146	146161	23.507	ug/l	98
88) 1,4-Dichlorobenzene	12.55	146	139774	23.304	ug/l	96
89) n-Butylbenzene	12.83	91	297189	24.236	ug/l	96
90) Hexachloroethane	12.91	117	72781	23.566	ug/l	72
91) 1,2-Dichlorobenzene	12.93	146	134154	22.773	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.63	75	7158	20.622	ug/l	80

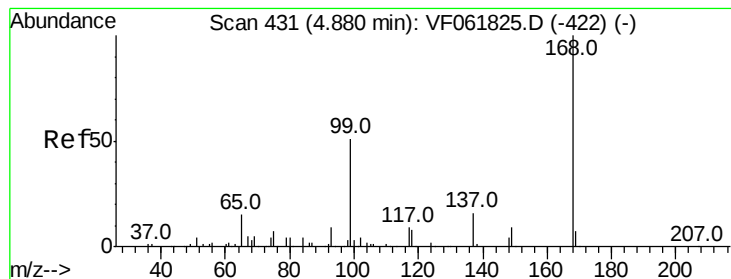
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF031319\
Data File : VF061927.D
Acq On : 13 Mar 2019 15:00
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	92895	22.493	ug/l	93
94) Hexachlorobutadiene	14.18	225	61585	21.540	ug/l	95
95) Naphthalene	14.45	128	157095	21.357	ug/l	98
96) 1,2,3-Trichlorobenzene	14.60	180	87340	22.905	ug/l	94

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.03 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

Instrument :

MSVOA_F

ClientSampleId :

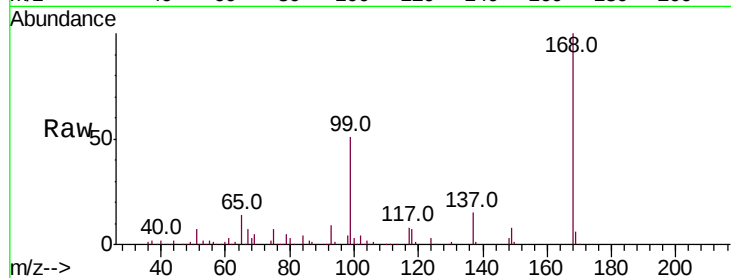
VF0313SBS01

Tot Ion:168 Resp: 299380

Ion Ratio Lower Upper

168 100

99 50.8 40.8 61.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

100000

80000

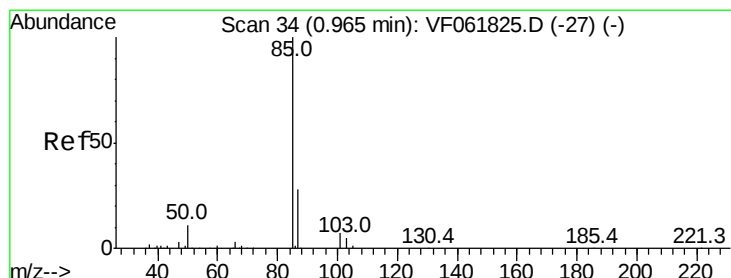
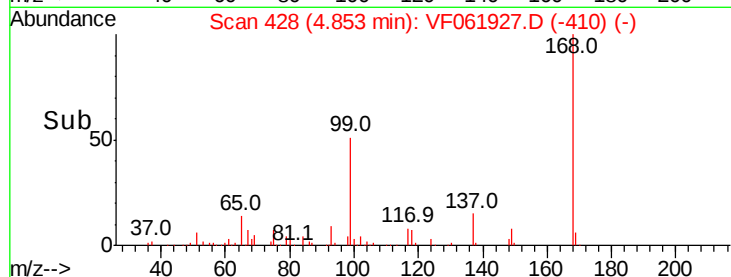
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 23.007 ug/l

RT: 0.96 min Scan# 33

Delta R.T. -0.01 min

Lab File: VF061927.D

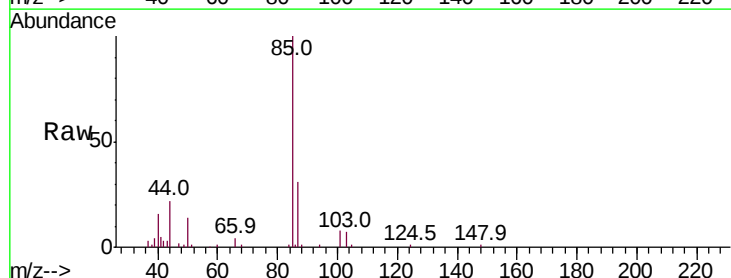
Acq: 13 Mar 2019 15:00

Tgt Ion: 85 Resp: 84561

Ion Ratio Lower Upper

85 100

87 30.8 14.1 42.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

25000

20000

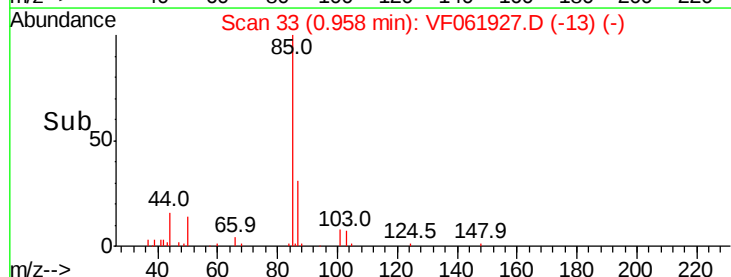
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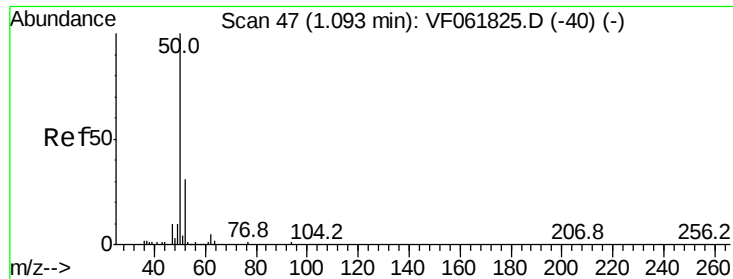
10000

5000

0

Time-->





#3

Chloromethane

Concen: 24.241 ug/l

RT: 1.10 min Scan# 47

Delta R.T. 0.00 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

Instrument :

MSVOA_F

ClientSampleId :

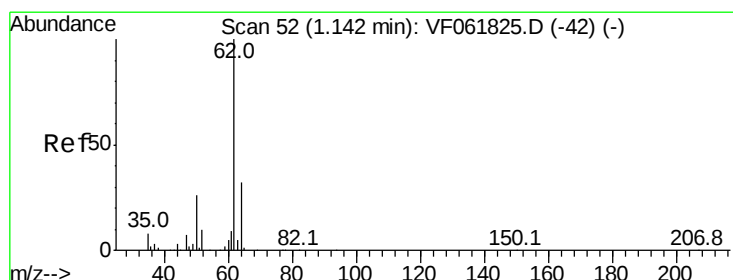
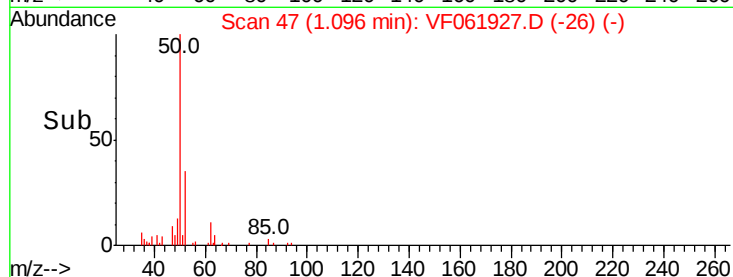
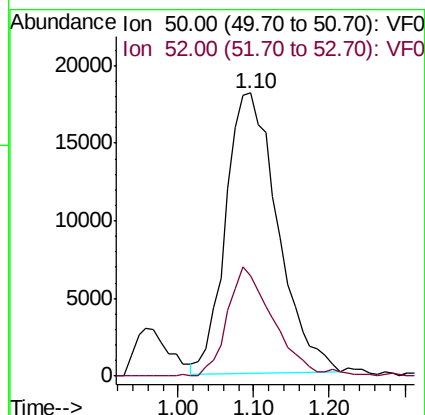
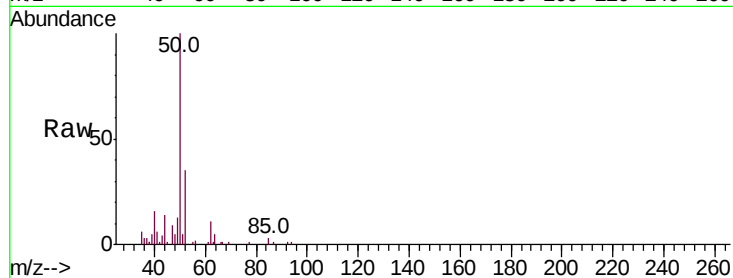
VF0313SBS01

Tot Ion: 50 Resp: 86349

Ion Ratio Lower Upper

50 100

52 35.3 23.8 35.8



#4

Vinyl Chloride

Concen: 24.522 ug/l

RT: 1.14 min Scan# 51

Delta R.T. -0.01 min

Lab File: VF061927.D

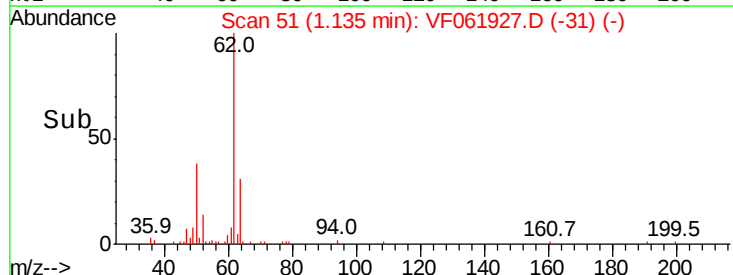
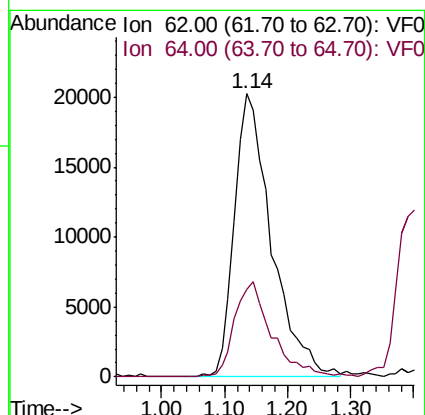
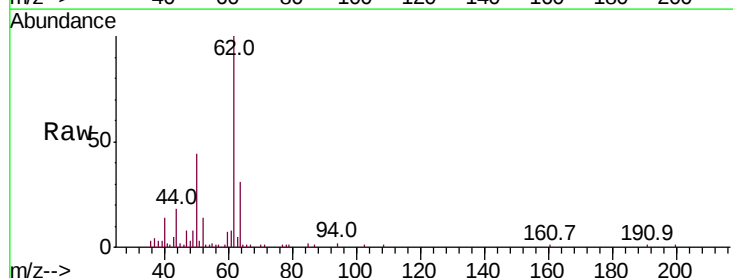
Acq: 13 Mar 2019 15:00

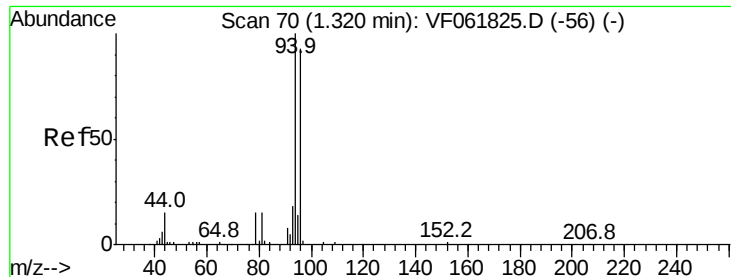
Tgt Ion: 62 Resp: 82920

Ion Ratio Lower Upper

62 100

64 32.0 25.2 37.8





#5

Bromomethane

Concen: 22.856 ug/l

RT: 1.30 min Scan# 68

Delta R.T. -0.02 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

Instrument :

MSVOA_F

ClientSampleId :

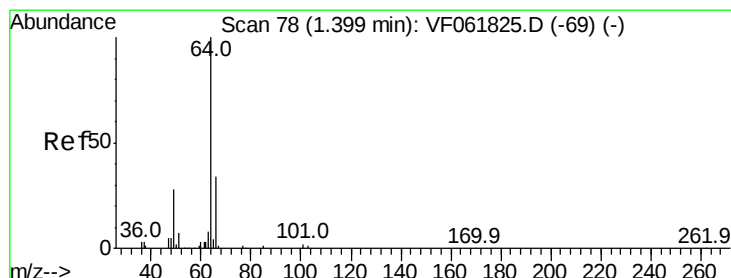
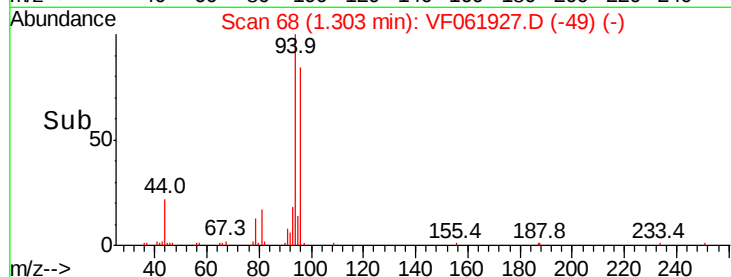
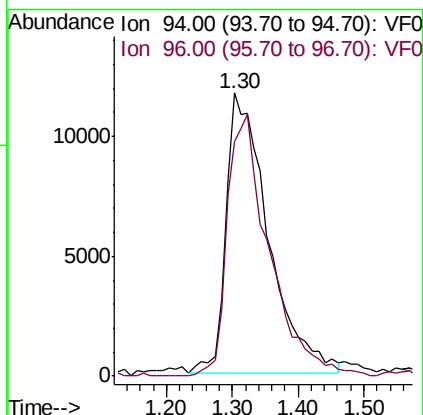
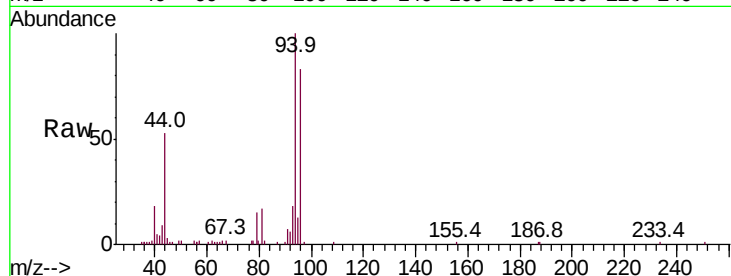
VF0313SBS01

Tot Ion: 94 Resp: 52671

Ion Ratio Lower Upper

94 100

96 82.8 75.2 112.8



#6

Chloroethane

Concen: 26.035 ug/l

RT: 1.40 min Scan# 78

Delta R.T. 0.00 min

Lab File: VF061927.D

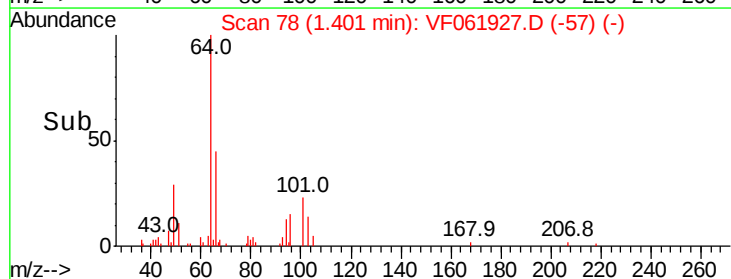
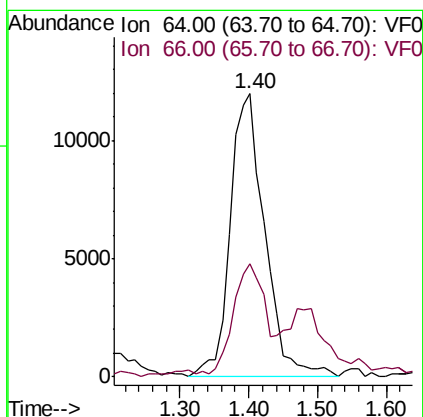
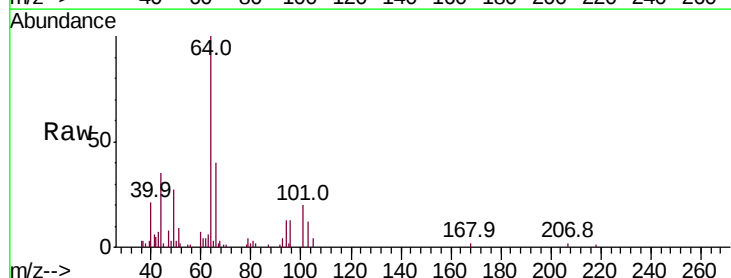
Acq: 13 Mar 2019 15:00

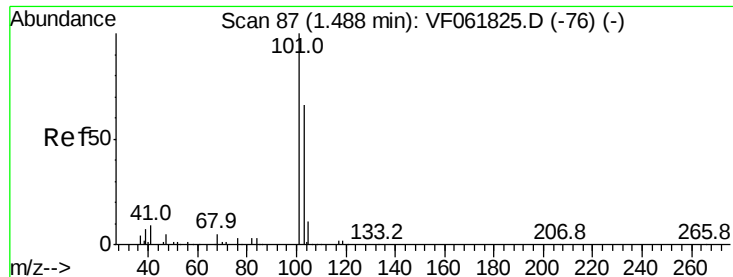
Tgt Ion: 64 Resp: 41848

Ion Ratio Lower Upper

64 100

66 40.1 27.0 40.4



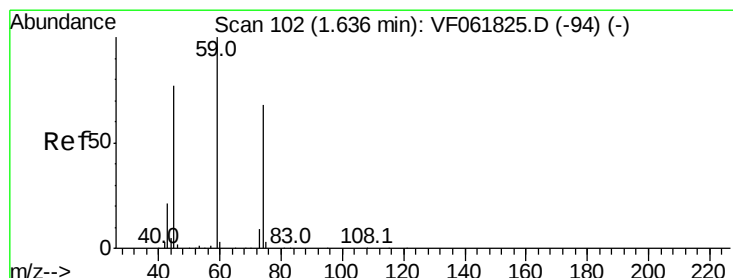
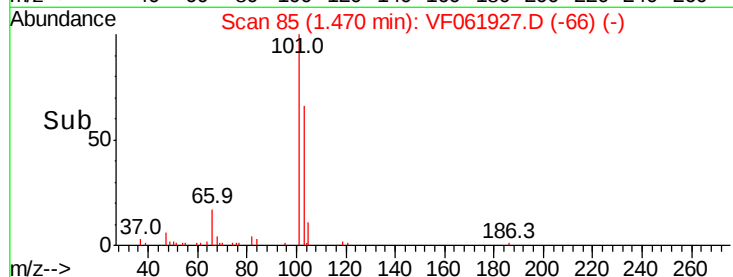
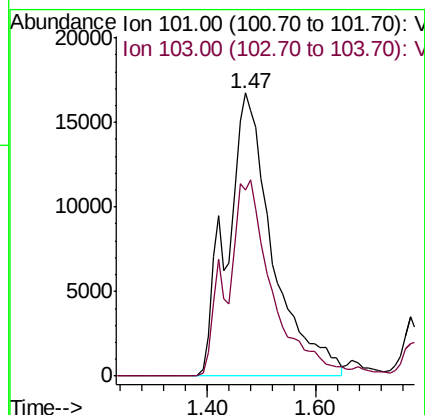
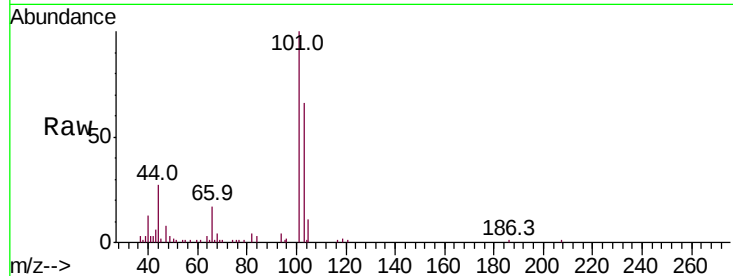


#7

Trichlorofluoromethane
Concen: 23.849 ug/l m
RT: 1.47 min Scan# 85
Delta R.T. -0.02 min
Lab File: VF061927.D
Acq: 13 Mar 2019 15:00

Instrument :
MSVOA_F
ClientSampleId :
VF0313SBS01

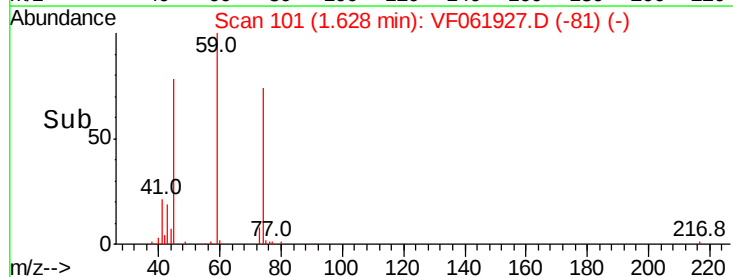
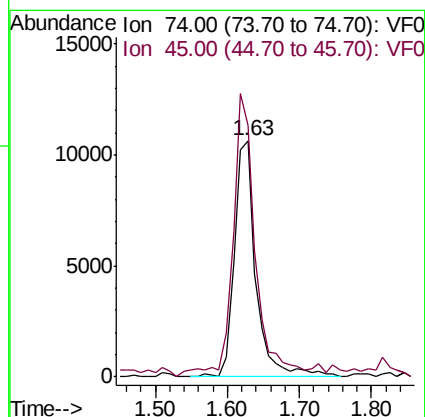
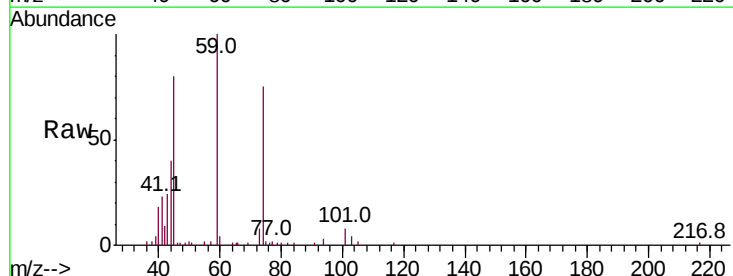
Tot Ion:101 Resp: 98496
Ion Ratio Lower Upper
101 100
103 65.9 52.8 79.2

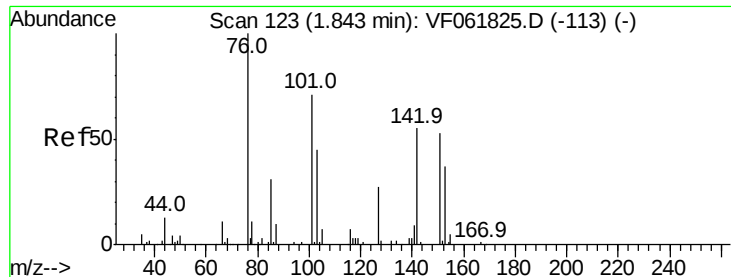


#8

Diethyl Ether
Concen: 23.728 ug/l
RT: 1.63 min Scan# 101
Delta R.T. -0.01 min
Lab File: VF061927.D
Acq: 13 Mar 2019 15:00

Tgt Ion: 74 Resp: 22284
Ion Ratio Lower Upper
74 100
45 106.4 57.2 171.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 26.181 ug/l

RT: 1.84 min Scan# 122

Delta R.T. -0.01 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

Instrument :

MSVOA_F

ClientSampleId :

VF0313SBS01

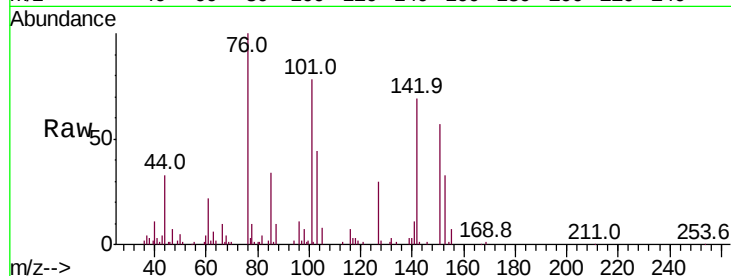
Tot Ion:101 Resp: 73426

Ion Ratio Lower Upper

101 100

85 43.0 34.0 51.0

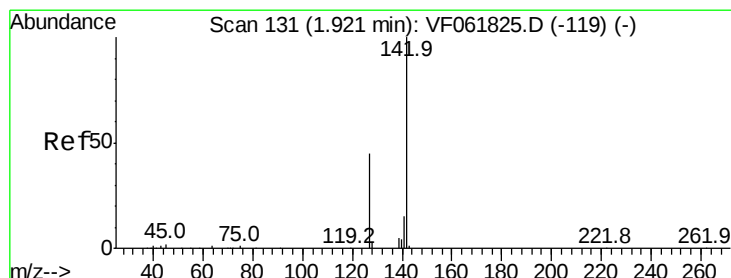
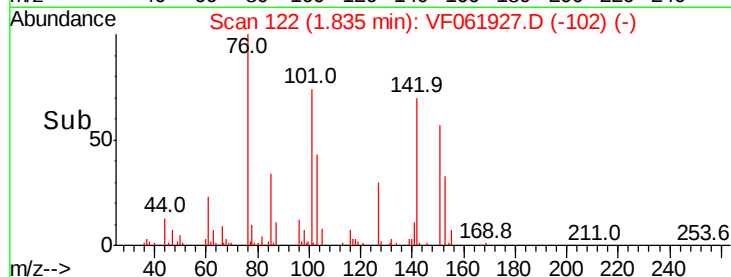
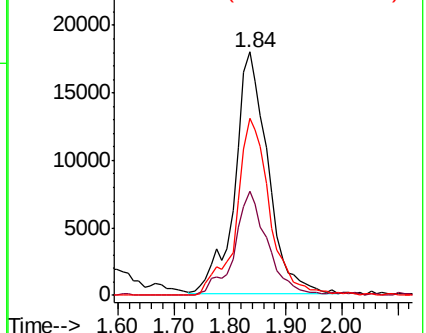
151 72.7 57.3 85.9



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: 23.442 ug/l m

RT: 1.90 min Scan# 129

Delta R.T. -0.02 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

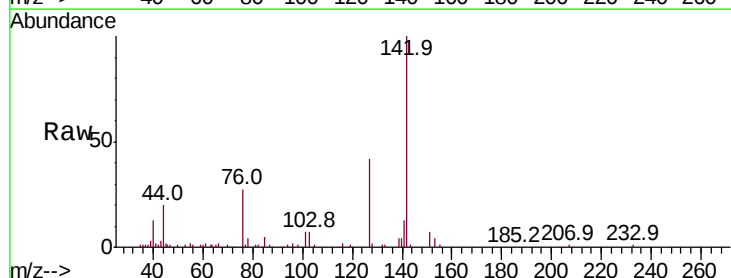
Tgt Ion:142 Resp: 125112

Ion Ratio Lower Upper

142 100

127 42.4 35.8 53.6

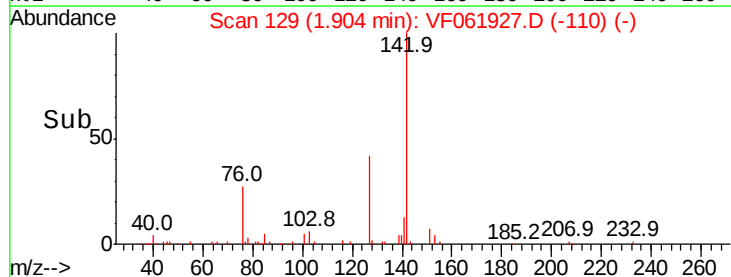
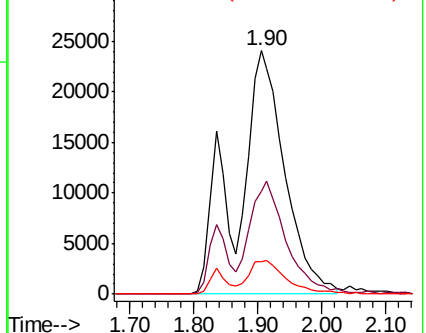
141 13.3 11.7 17.5

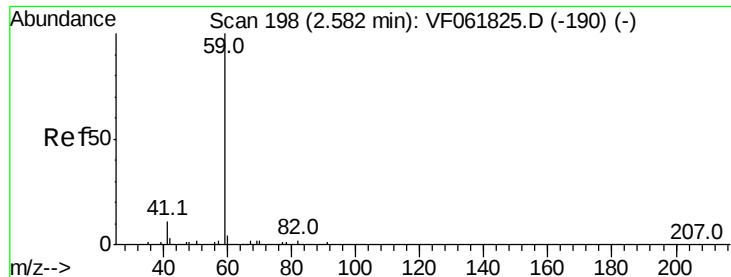


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



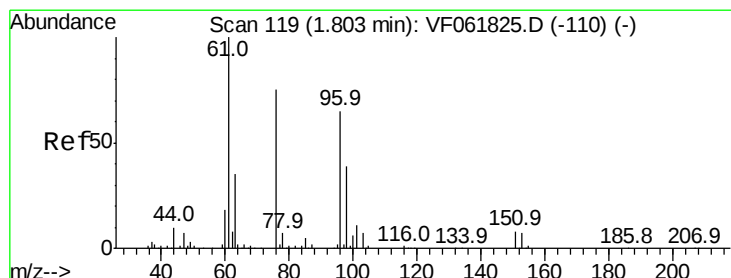
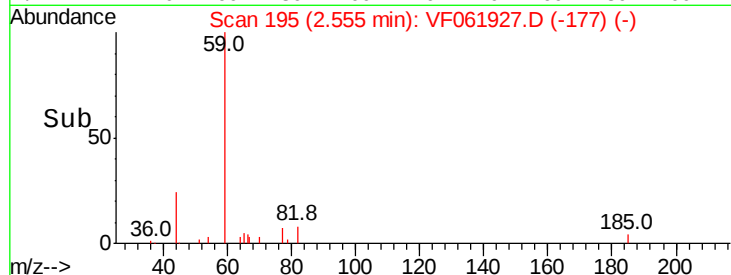
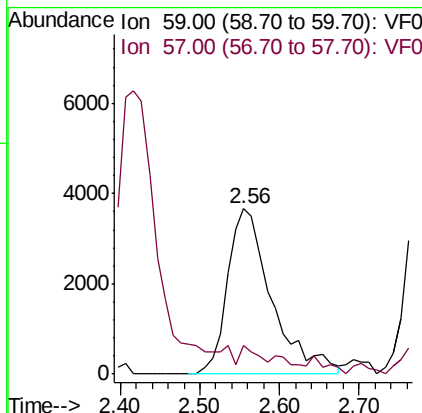
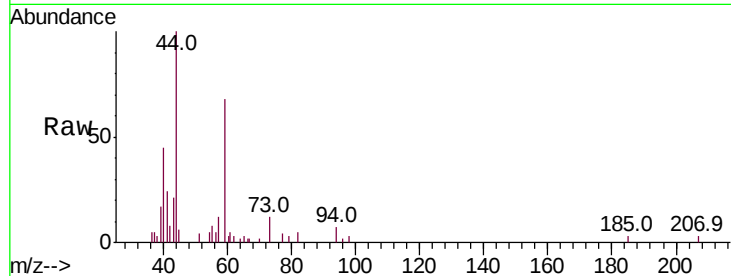


#11

Tert butyl alcohol
Concen: 114.273 ug/l
RT: 2.56 min Scan# 195
Delta R.T. -0.03 min
Lab File: VF061927.D
Acq: 13 Mar 2019 15:00

Instrument :
MSVOA_F
ClientSampleId :
VF0313SBS01

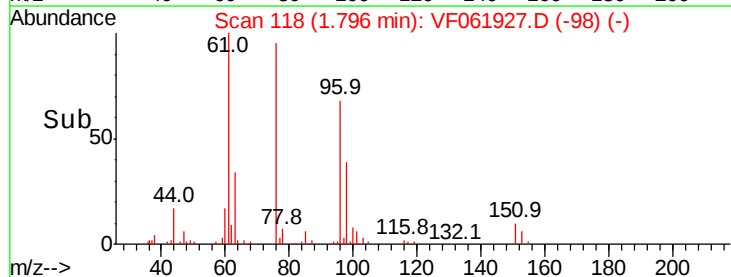
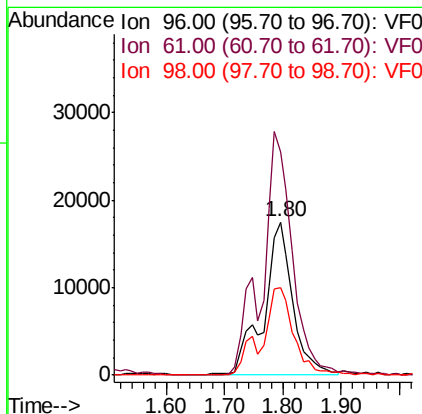
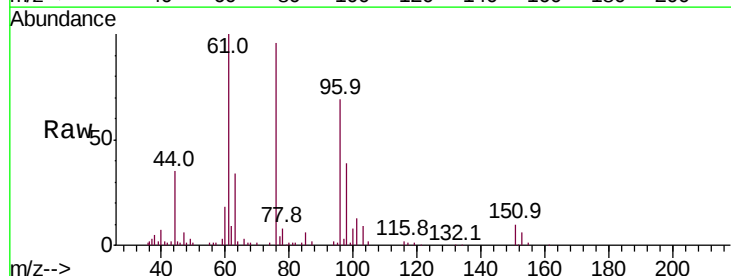
Tot Ion: 59 Resp: 14141
Ion Ratio Lower Upper
59 100
57 17.2 11.8 17.6

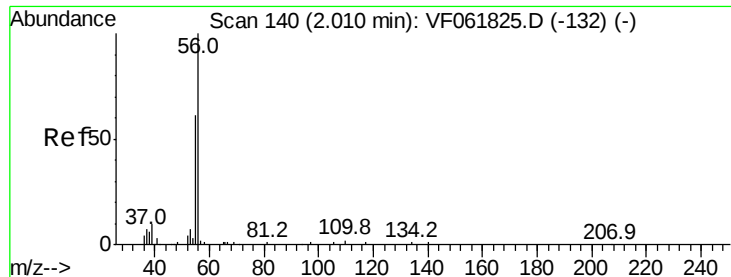


#12

1,1-Dichloroethene
Concen: 24.046 ug/l
RT: 1.80 min Scan# 118
Delta R.T. -0.01 min
Lab File: VF061927.D
Acq: 13 Mar 2019 15:00

Tgt Ion: 96 Resp: 61569
Ion Ratio Lower Upper
96 100
61 145.7 122.5 183.7
98 56.8 47.1 70.7

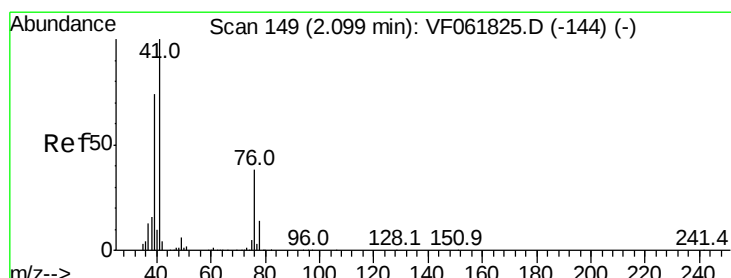
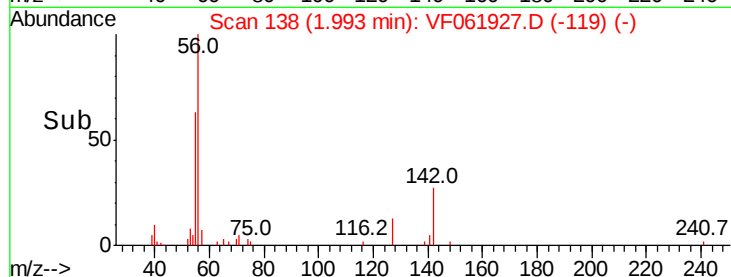
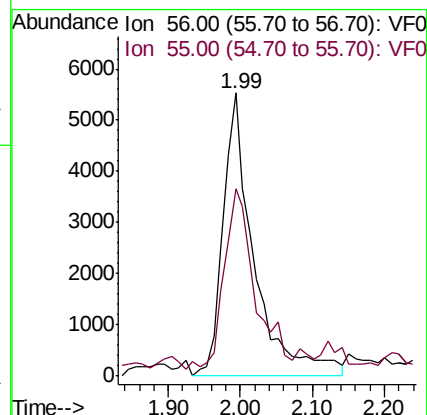
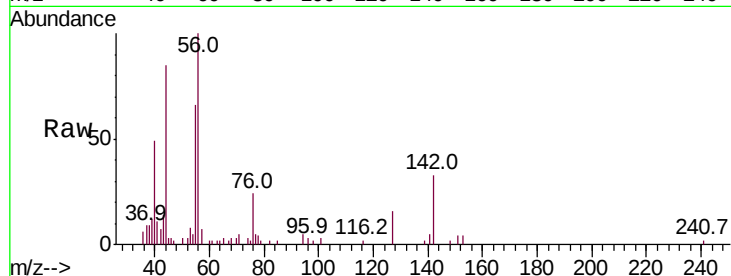




#13
Acrolein
Concen: 104.731 ug/l
RT: 1.99 min Scan# 138
Delta R.T. -0.02 min
Lab File: VF061927.D
Acq: 13 Mar 2019 15:00

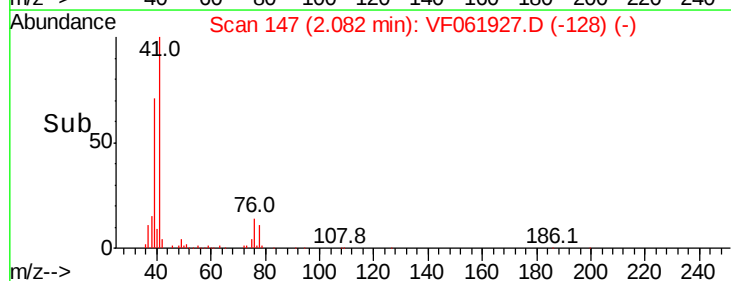
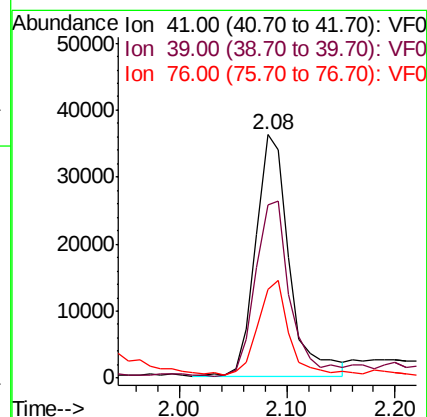
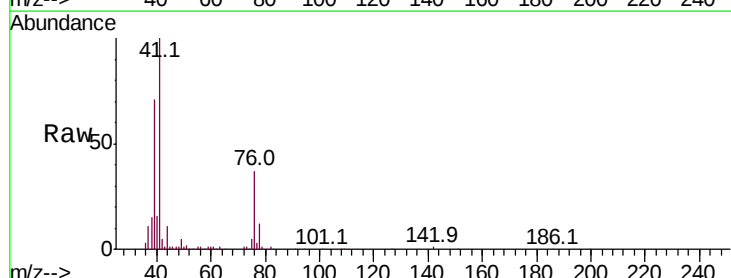
Instrument :
MSVOA_F
ClientSampleId :
VF0313SBS01

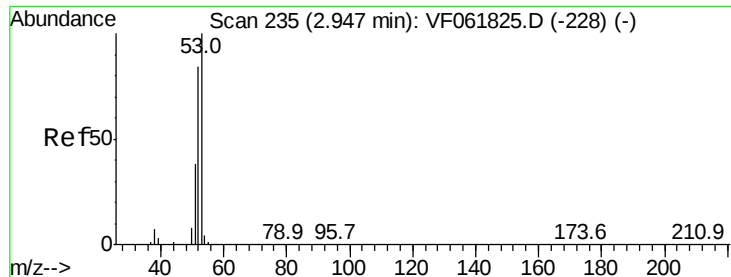
Tot Ion: 56 Resp: 16422
Ion Ratio Lower Upper
56 100
55 66.0 51.3 76.9



#14
Allyl chloride
Concen: 28.020 ug/l
RT: 2.08 min Scan# 147
Delta R.T. -0.02 min
Lab File: VF061927.D
Acq: 13 Mar 2019 15:00

Tgt Ion: 41 Resp: 79038
Ion Ratio Lower Upper
41 100
39 71.2 59.6 89.4
76 36.5 32.3 48.5





#15

Acrylonitrile

Concen: 123.273 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.02 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

Instrument :

MSVOA_F

ClientSampleId :

VF0313SBS01

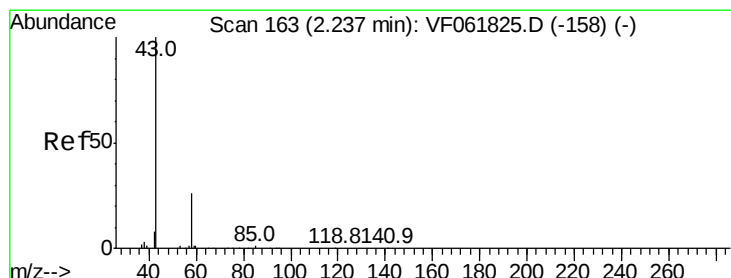
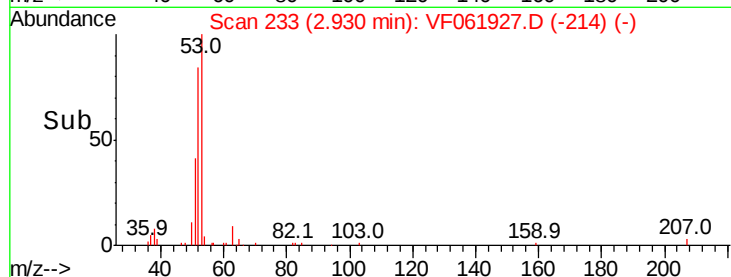
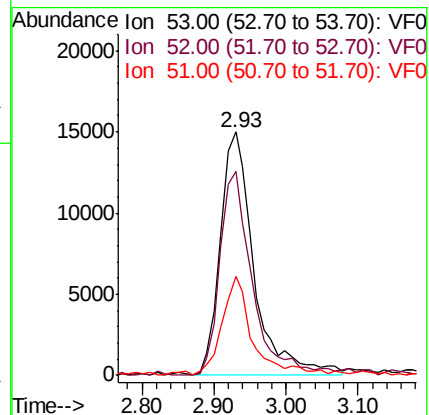
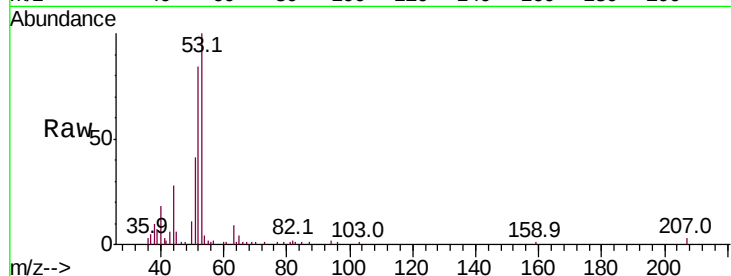
Tot Ion: 53 Resp: 48575

Ion Ratio Lower Upper

53 100

52 83.5 67.4 101.0

51 40.9 30.7 46.1



#16

Acetone

Concen: 129.176 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.01 min

Lab File: VF061927.D

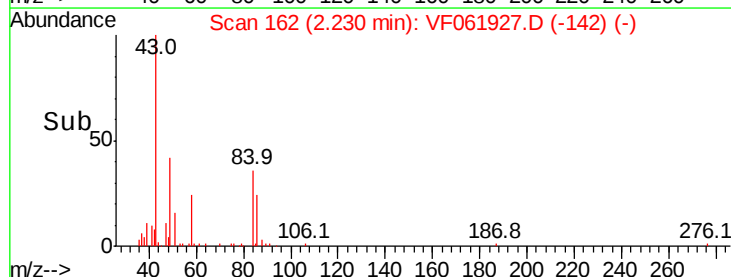
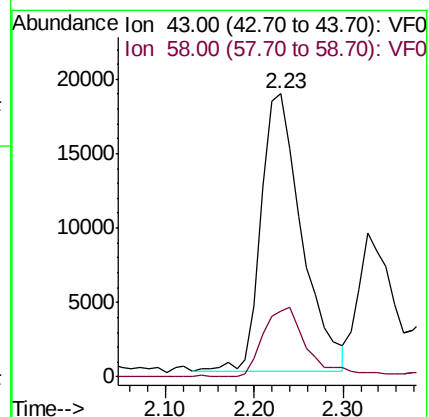
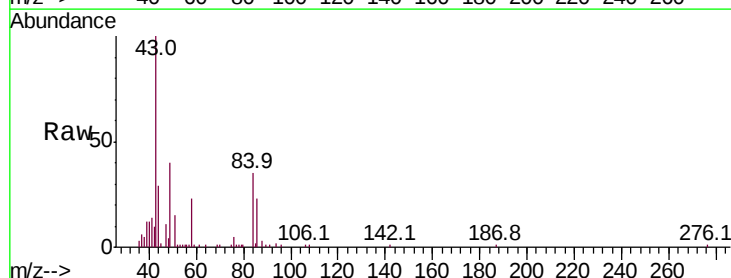
Acq: 13 Mar 2019 15:00

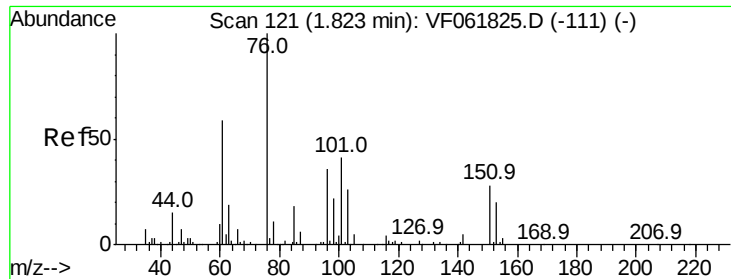
Tgt Ion: 43 Resp: 58994

Ion Ratio Lower Upper

43 100

58 23.4 20.3 30.5





#17

Carbon Disulfide

Concen: 23.419 ug/l m

RT: 1.81 min Scan# 119

Delta R.T. -0.02 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

Instrument :

MSVOA_F

ClientSampleId :

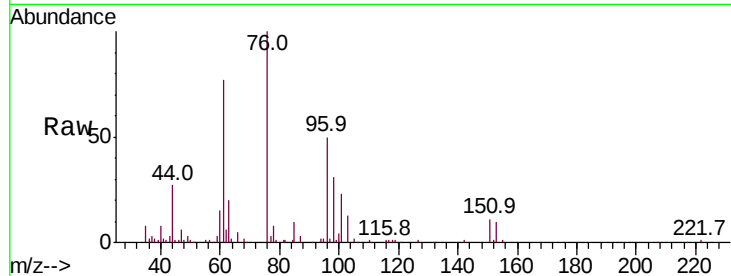
VF0313SBS01

Tot Ion: 76 Resp: 186653

Ion Ratio Lower Upper

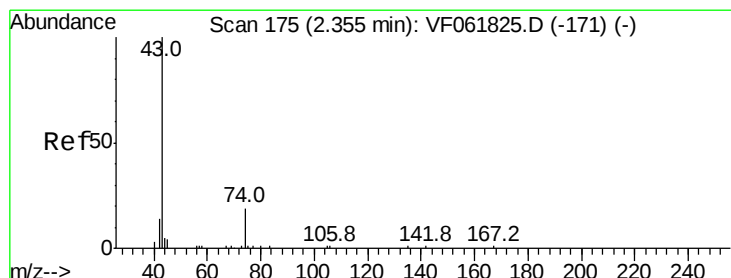
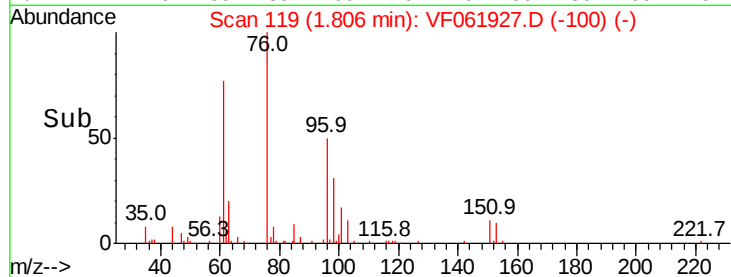
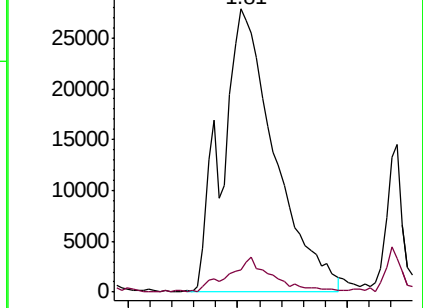
76 100

78 7.9 9.1 13.7#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#18

Methyl Acetate

Concen: 24.247 ug/l

RT: 2.33 min Scan# 172

Delta R.T. -0.03 min

Lab File: VF061927.D

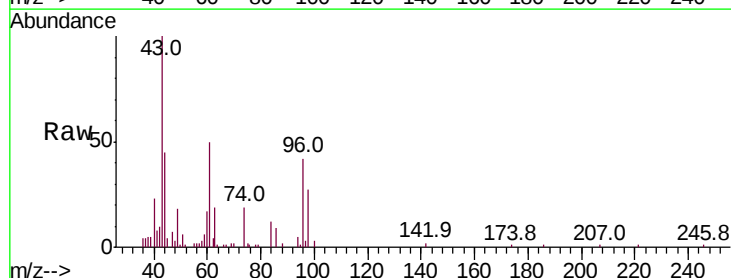
Acq: 13 Mar 2019 15:00

Tgt Ion: 43 Resp: 22179

Ion Ratio Lower Upper

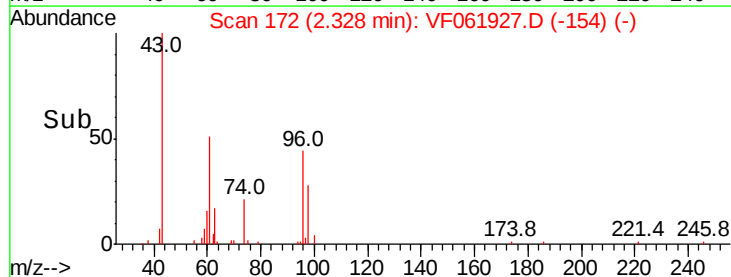
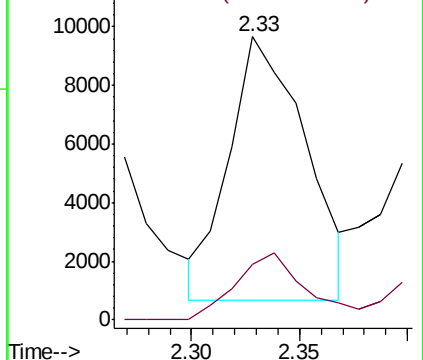
43 100

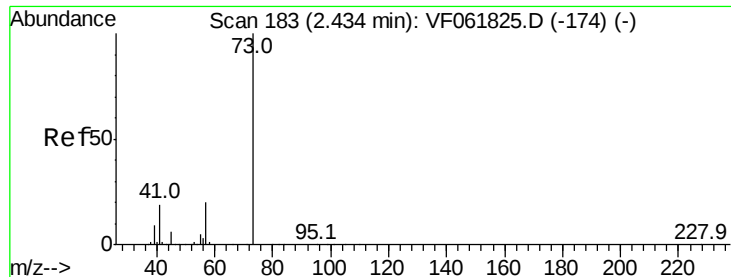
74 19.4 13.2 19.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

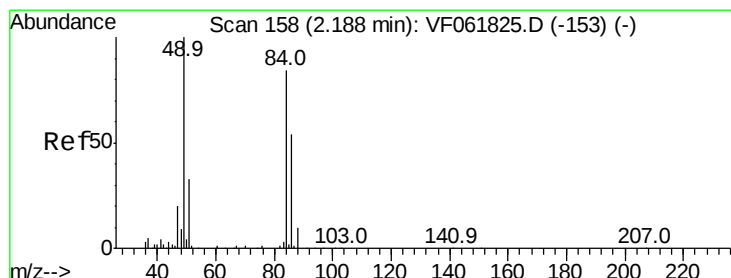
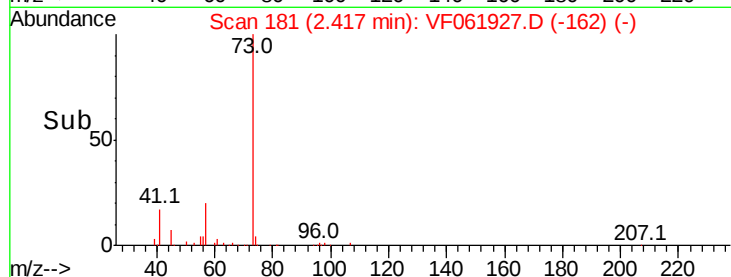
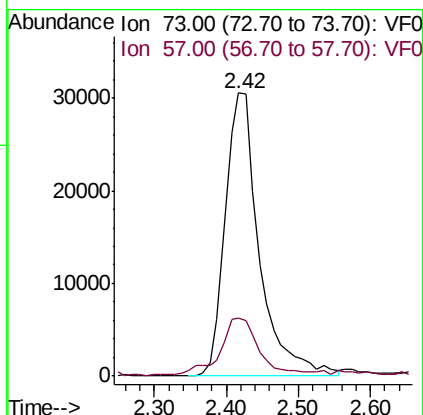
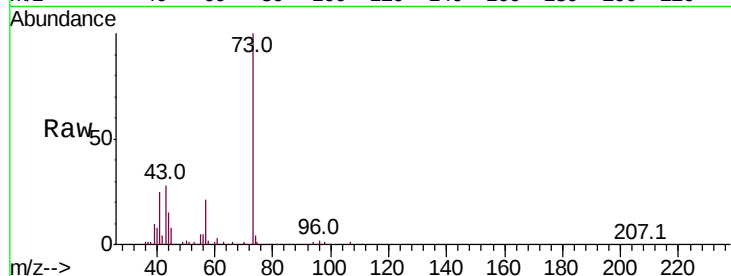




#19
Methyl tert-butyl Ether
Concen: 23.315 ug/l
RT: 2.42 min Scan# 181
Delta R.T. -0.02 min
Lab File: VF061927.D
Acq: 13 Mar 2019 15:00

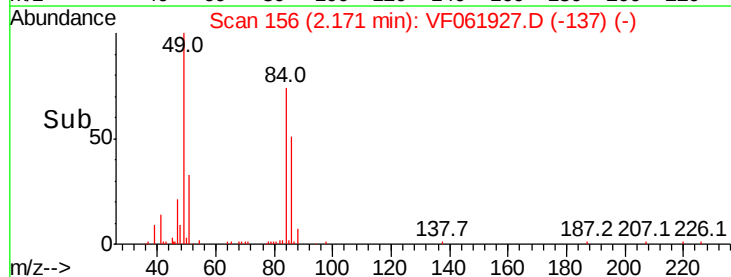
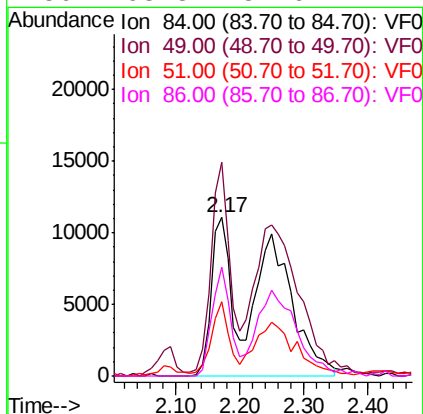
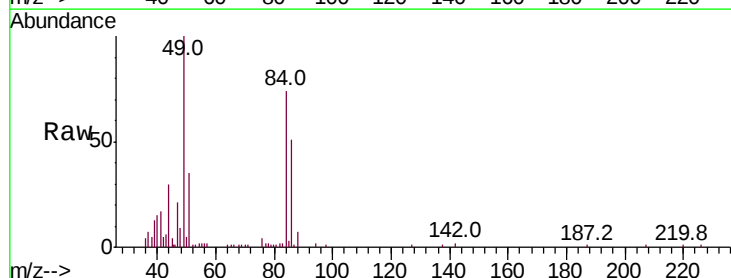
Instrument :
MSVOA_F
ClientSampleId :
VF0313SBS01

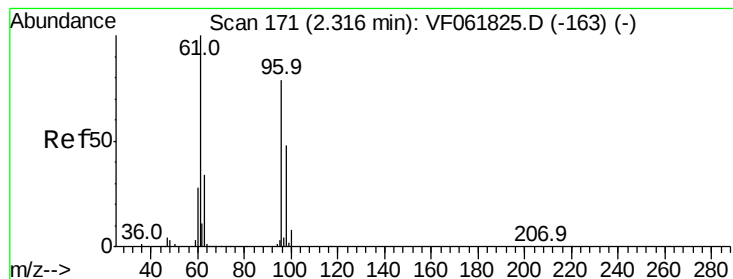
Tot Ion: 73 Resp: 100986
Ion Ratio Lower Upper
73 100
57 20.5 16.1 24.1



#20
Methylene Chloride
Concen: 21.877 ug/l m
RT: 2.17 min Scan# 156
Delta R.T. -0.02 min
Lab File: VF061927.D
Acq: 13 Mar 2019 15:00

Tgt Ion: 84 Resp: 63012
Ion Ratio Lower Upper
84 100
49 134.9 96.8 145.2
51 46.8 31.8 47.6
86 68.8 51.6 77.4





#21

trans-1,2-Dichloroethene

Concen: 26.426 ug/l

RT: 2.30 min Scan# 169

Delta R.T. -0.02 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

Instrument :

MSVOA_F

ClientSampleId :

VF0313SBS01

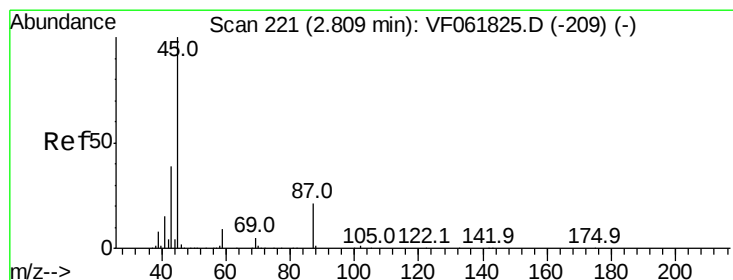
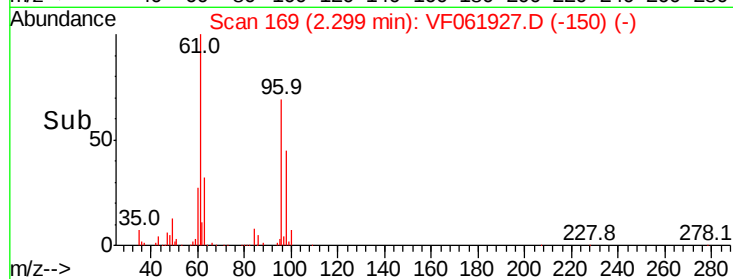
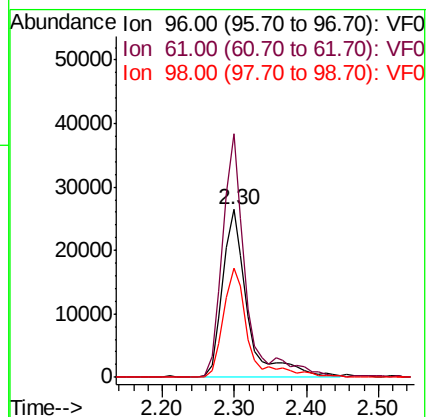
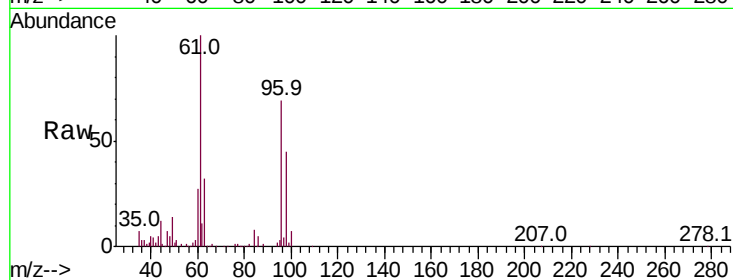
Tot Ion: 96 Resp: 63680

Ion Ratio Lower Upper

96 100

61 144.9 101.0 151.6

98 64.7 48.8 73.2



#22

Diisopropyl ether

Concen: 24.696 ug/l

RT: 2.78 min Scan# 218

Delta R.T. -0.03 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

Tgt Ion: 45 Resp: 181209

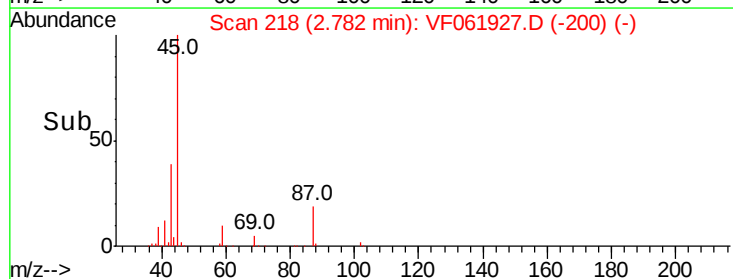
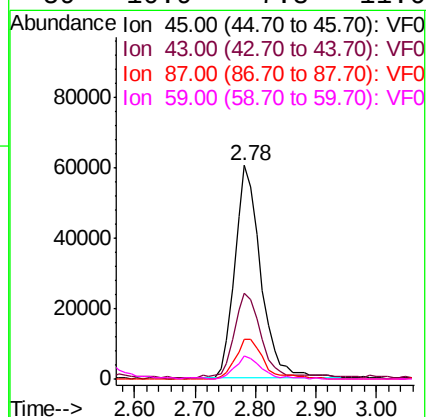
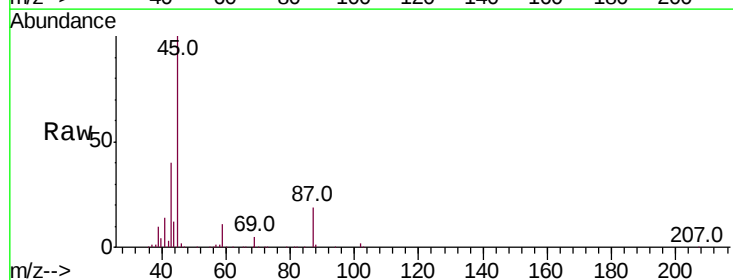
Ion Ratio Lower Upper

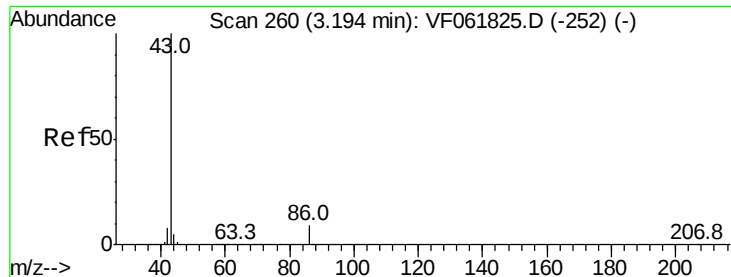
45 100

43 40.1 31.8 47.8

87 18.7 17.1 25.7

59 10.9 7.8 11.6





#23

Vinyl Acetate

Concen: 111.429 ug/l

RT: 3.18 min Scan# 258

Delta R.T. -0.02 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

Instrument :

MSVOA_F

ClientSampleId :

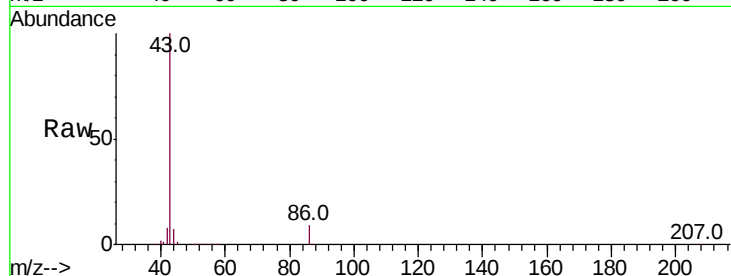
VF0313SBS01

Tot Ion: 43 Resp: 365253

Ion Ratio Lower Upper

43 100

86 9.0 7.0 10.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.18

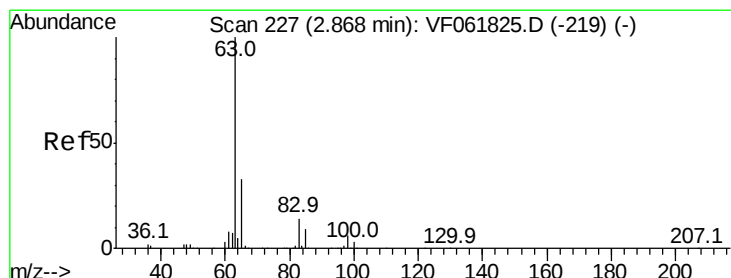
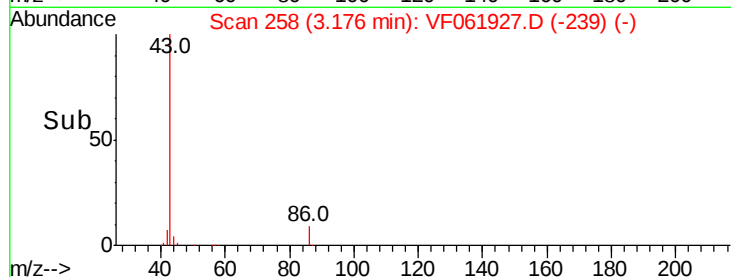
150000

100000

50000

0

Time--> 3.00 3.10 3.20 3.30



#24

1,1-Dichloroethane

Concen: 24.916 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.01 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

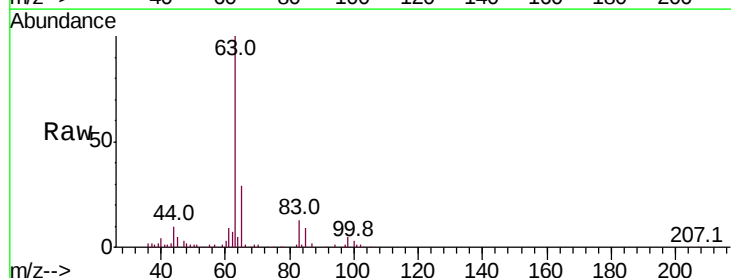
Tgt Ion: 63 Resp: 109274

Ion Ratio Lower Upper

63 100

98 5.1 2.9 8.6

100 3.4 1.8 5.3



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

2.86

50000

40000

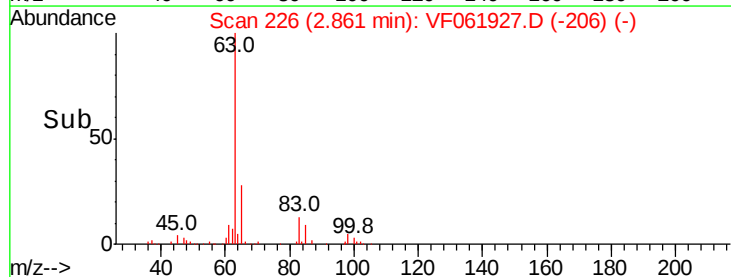
30000

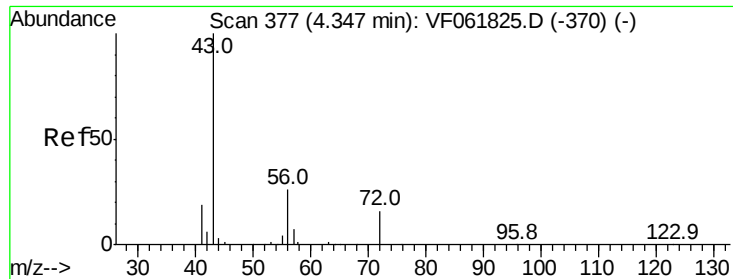
20000

10000

0

Time--> 2.70 2.80 2.90 3.00





#25

2-Butanone

Concen: 118.837 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.03 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

Instrument :

MSVOA_F

ClientSampleId :

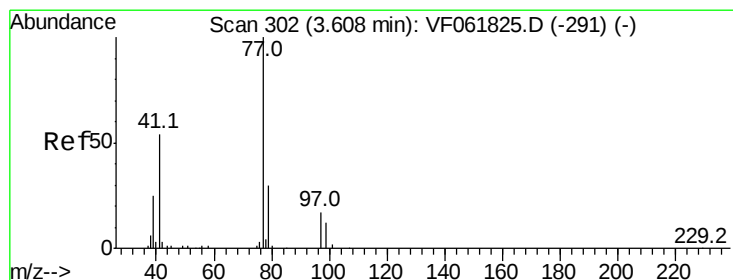
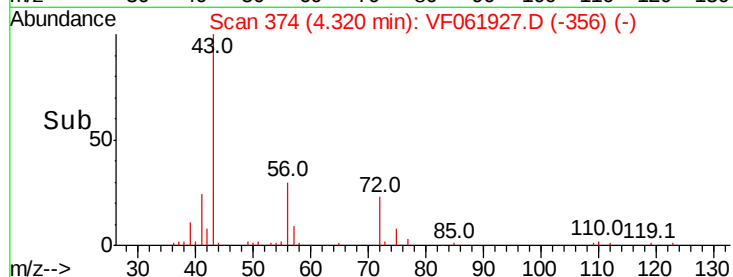
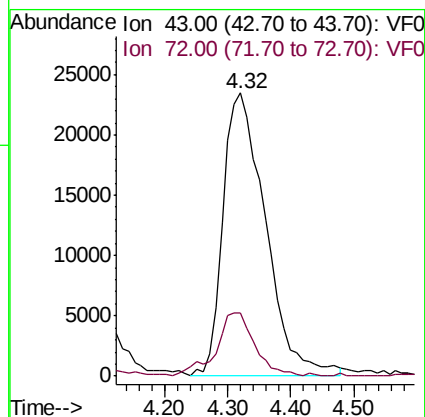
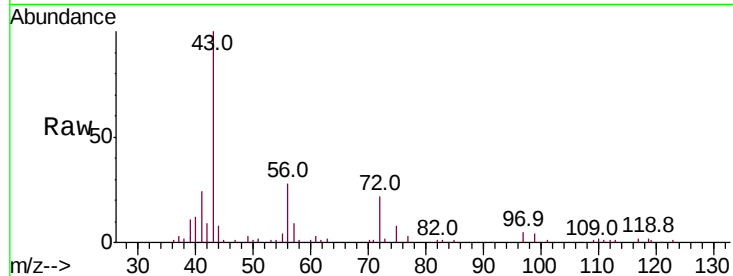
VF0313SBS01

Tot Ion: 43 Resp: 110394

Ion Ratio Lower Upper

43 100

72 22.3 16.2 24.4



#26

2,2-Dichloropropane

Concen: 23.493 ug/l

RT: 3.58 min Scan# 299

Delta R.T. -0.03 min

Lab File: VF061927.D

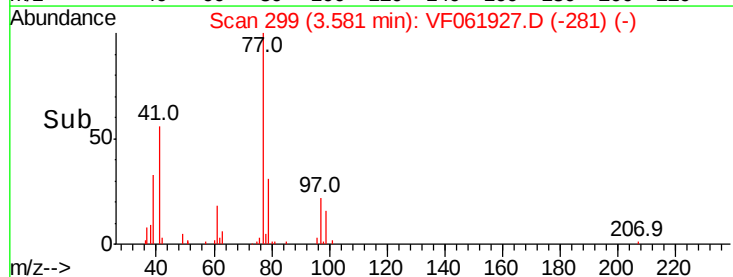
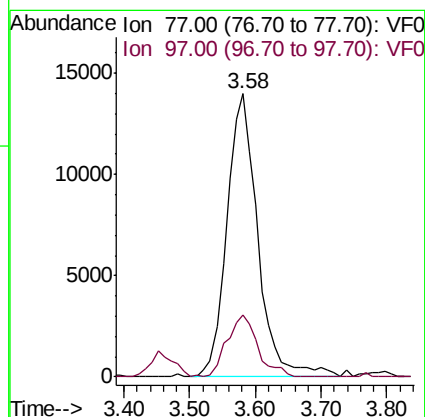
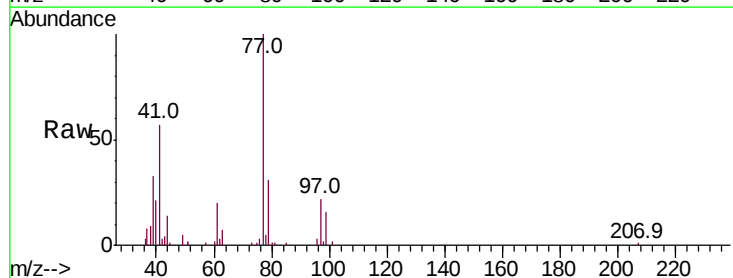
Acq: 13 Mar 2019 15:00

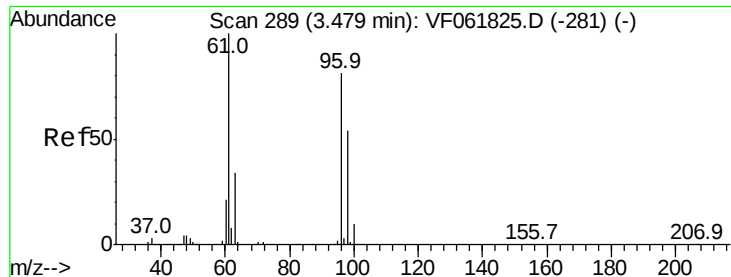
Tgt Ion: 77 Resp: 45995

Ion Ratio Lower Upper

77 100

97 21.7 10.4 31.4



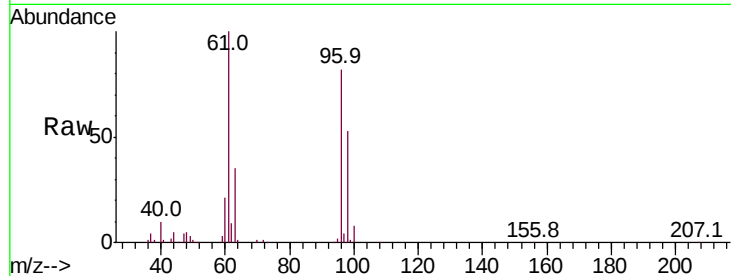


#27

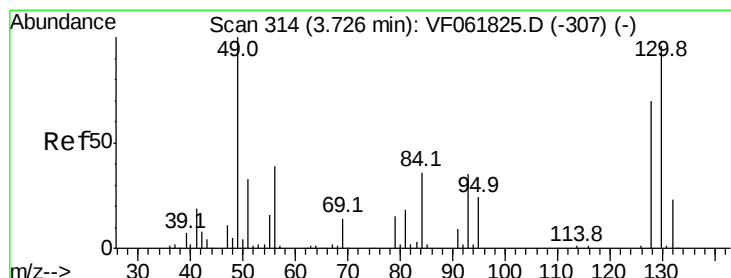
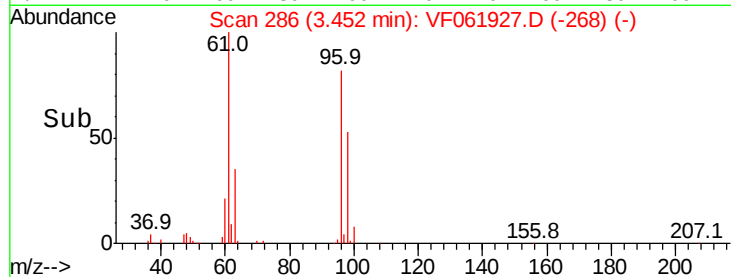
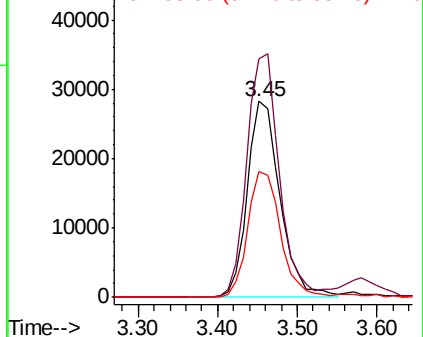
cis-1,2-Dichloroethene
Concen: 23.977 ug/l
RT: 3.45 min Scan# 286
Delta R.T. -0.03 min
Lab File: VF061927.D
Acq: 13 Mar 2019 15:00

Instrument :
MSVOA_F
ClientSampleId :
VF0313SBS01

Tot Ion: 96 Resp: 80048
Ion Ratio Lower Upper
96 100
61 121.8 0.0 245.8
98 64.4 0.0 132.6



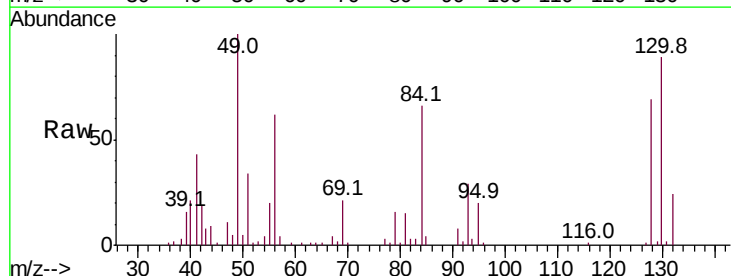
Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



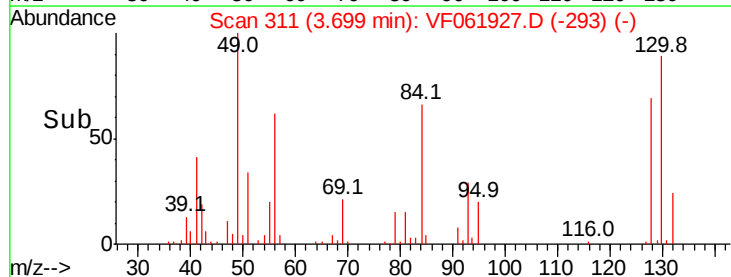
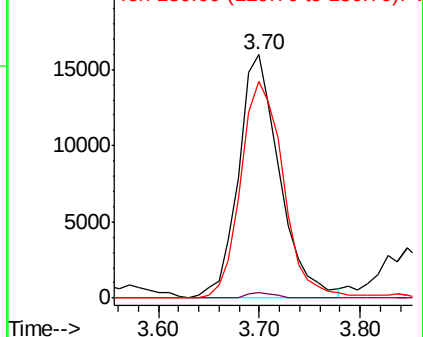
#28

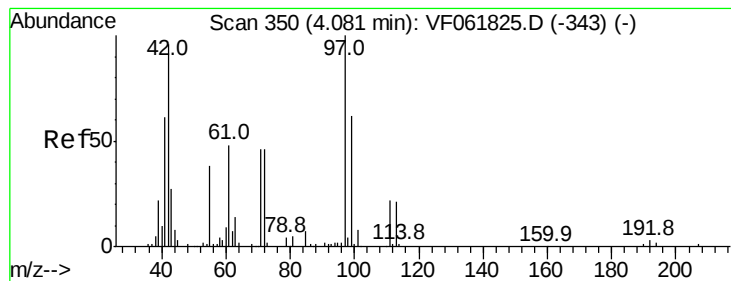
Bromochloromethane
Concen: 23.846 ug/l
RT: 3.70 min Scan# 311
Delta R.T. -0.03 min
Lab File: VF061927.D
Acq: 13 Mar 2019 15:00

Tgt Ion: 49 Resp: 45587
Ion Ratio Lower Upper
49 100
129 2.4 0.0 0.0#
130 89.3 76.9 115.3



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: 114.537 ug/l

RT: 4.05 min Scan# 347

Delta R.T. -0.03 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

Instrument :

MSVOA_F

ClientSampleId :

VF0313SBS01

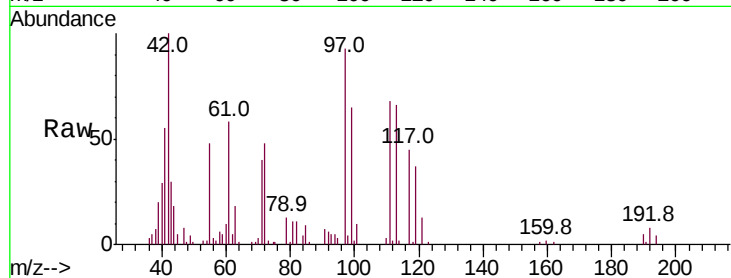
Tot Ion: 42 Resp: 45887

Ion Ratio Lower Upper

42 100

72 42.8 34.4 51.6

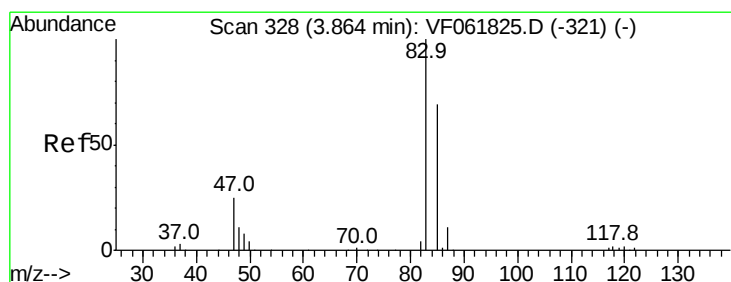
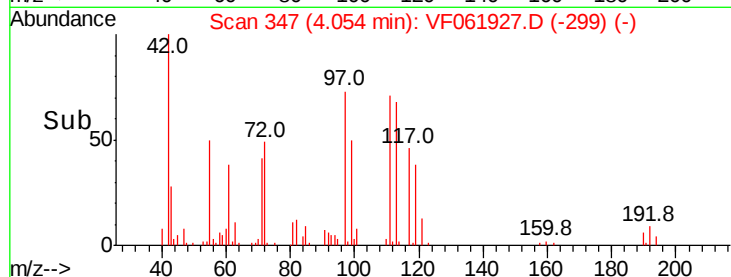
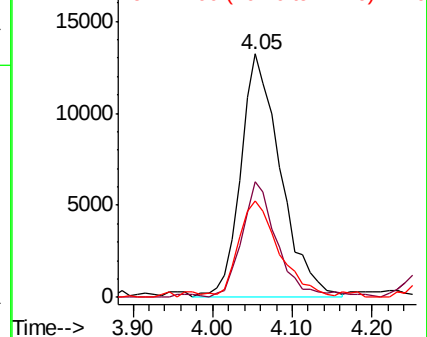
71 38.1 34.6 52.0



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#30

Chloroform

Concen: 23.273 ug/l

RT: 3.84 min Scan# 325

Delta R.T. -0.03 min

Lab File: VF061927.D

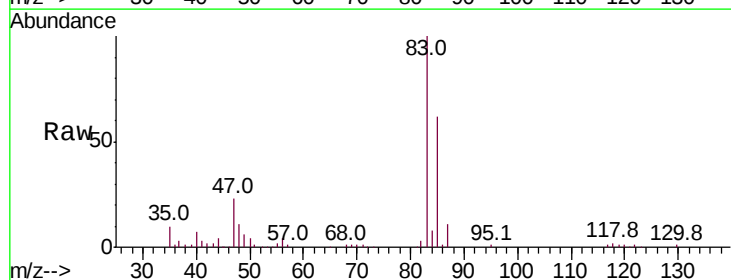
Acq: 13 Mar 2019 15:00

Tgt Ion: 83 Resp: 116584

Ion Ratio Lower Upper

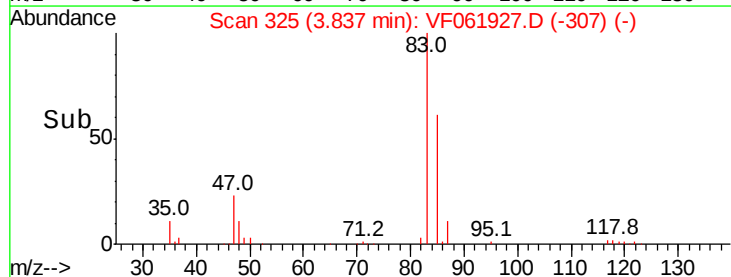
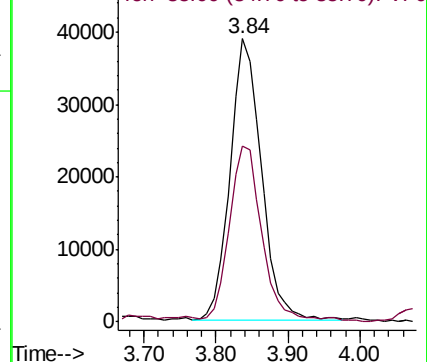
83 100

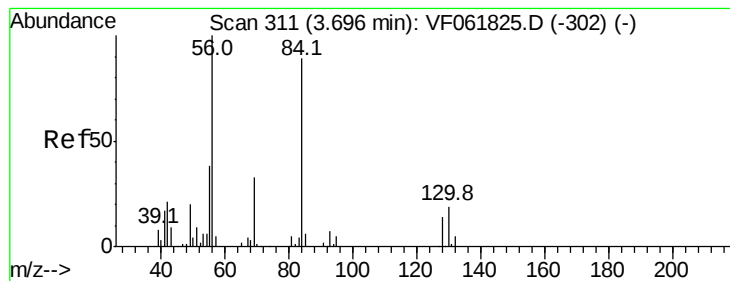
85 62.2 55.3 82.9



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0





#31

Cyclohexane

Concen: 23.150 ug/l m

RT: 3.68 min Scan# 309

Delta R.T. -0.02 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

Instrument :

MSVOA_F

ClientSampleId :

VF0313SBS01

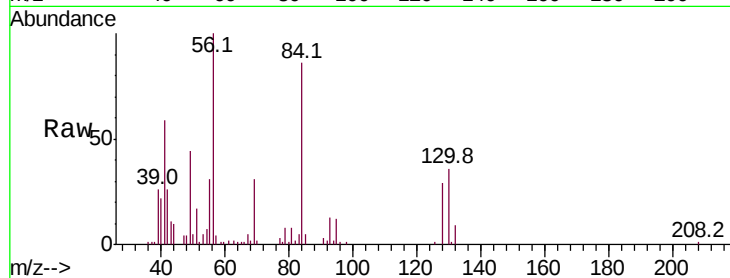
Tot Ion: 56 Resp: 106340

Ion Ratio Lower Upper

56 100

69 30.5 26.0 39.0

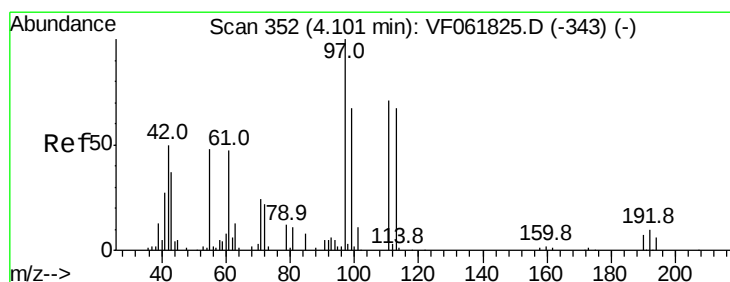
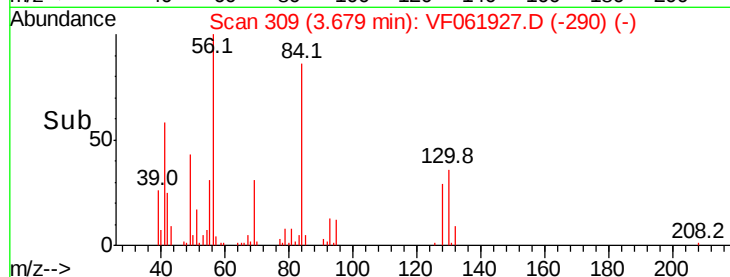
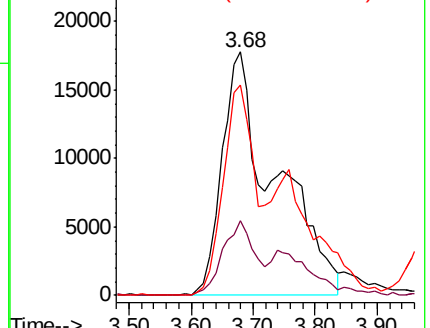
84 86.3 71.0 106.6



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0



#32

1,1,1-Trichloroethane

Concen: 22.938 ug/l

RT: 4.07 min Scan# 349

Delta R.T. -0.03 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

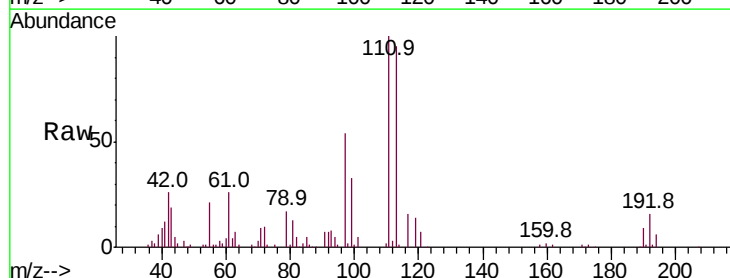
Tgt Ion: 97 Resp: 70826

Ion Ratio Lower Upper

97 100

99 61.2 53.8 80.8

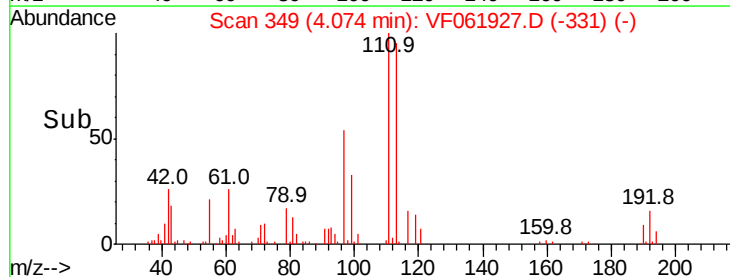
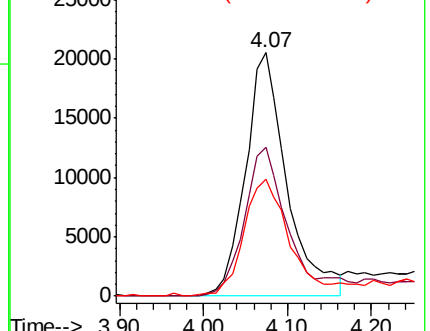
61 48.2 37.9 56.9

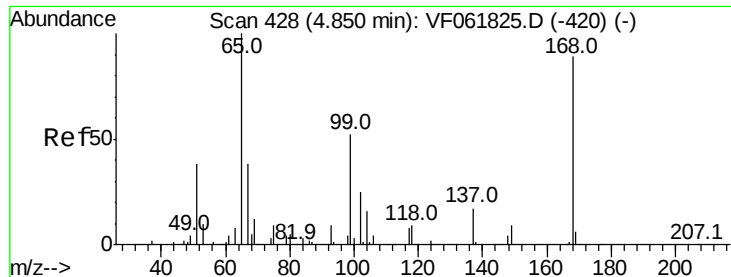


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 57.847 ug/l

RT: 4.82 min Scan# 425

Delta R.T. -0.03 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

Instrument :

MSVOA_F

ClientSampleId :

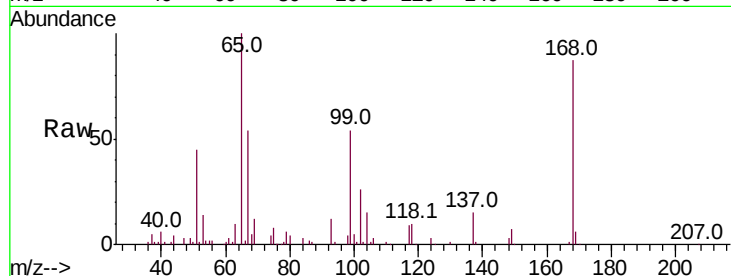
VF0313SBS01

Tot Ion: 65 Resp: 126120

Ion Ratio Lower Upper

65 100

67 53.8 0.0 108.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

4.82

40000

30000

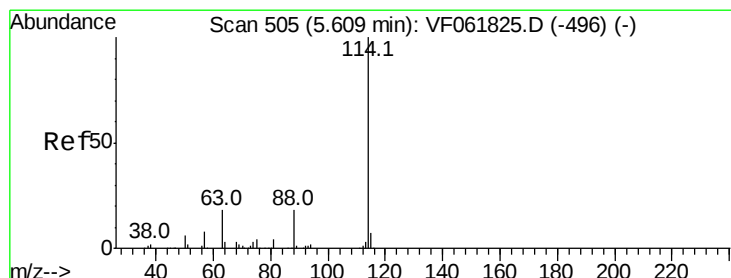
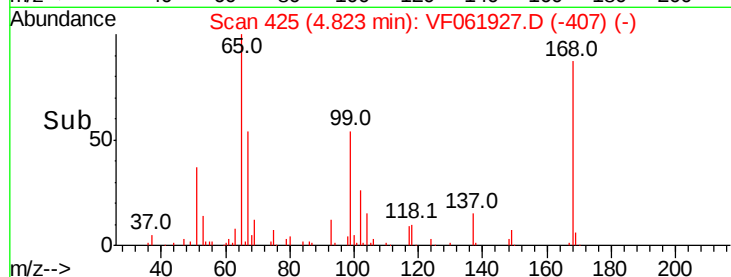
20000

10000

0

4.70 4.80 4.90 5.00

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.57 min Scan# 501

Delta R.T. -0.04 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

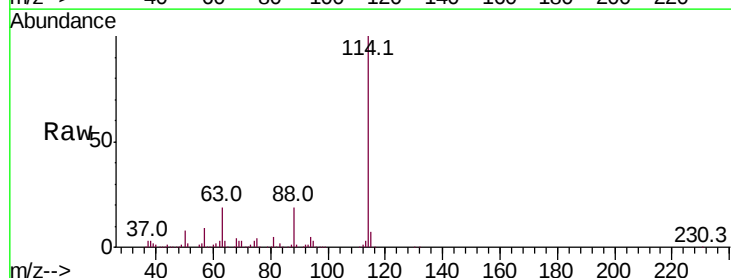
Tgt Ion: 114 Resp: 448375

Ion Ratio Lower Upper

114 100

63 19.3 0.0 35.6

88 19.0 0.0 35.6



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

200000

150000

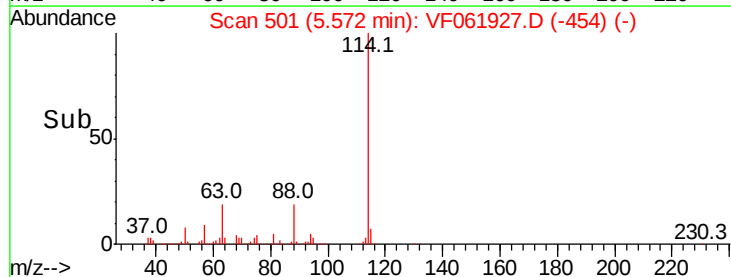
100000

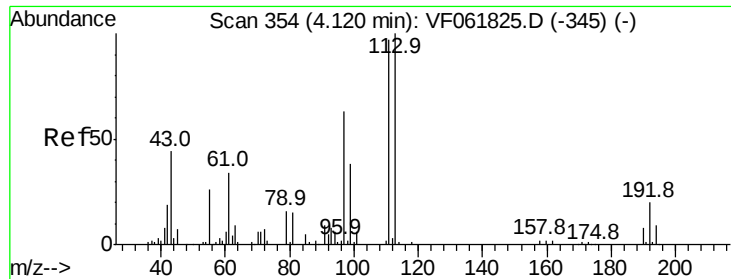
50000

0

5.40 5.60 5.80

Time-->





#35

Dibromofluoromethane

Concen: 56.363 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.03 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

Instrument :

MSVOA_F

ClientSampleId :

VF0313SBS01

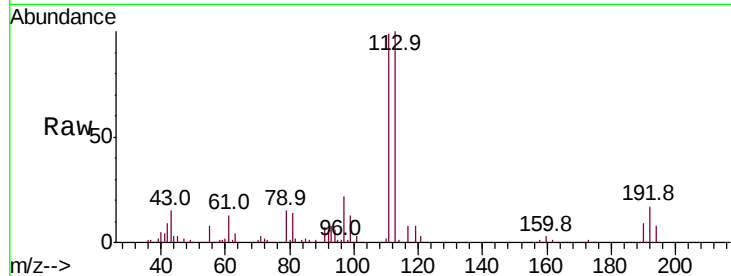
Tot Ion:113 Resp: 176365

Ion Ratio Lower Upper

113 100

111 99.5 77.6 116.4

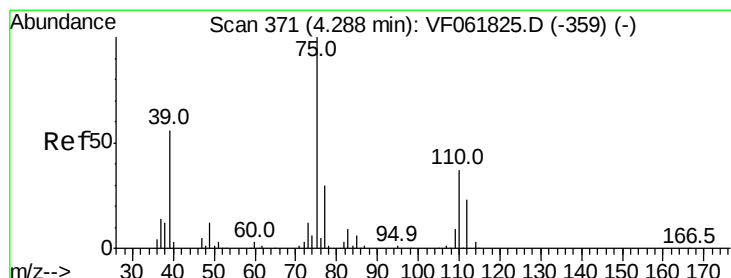
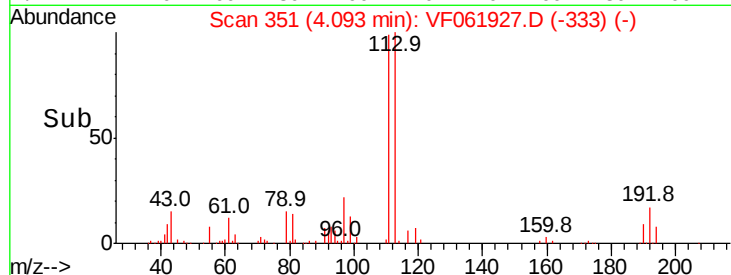
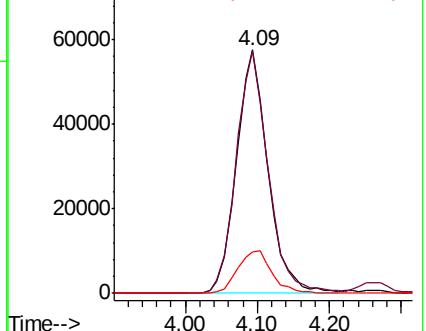
192 17.1 15.9 23.9



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: 23.297 ug/l

RT: 4.26 min Scan# 368

Delta R.T. -0.03 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

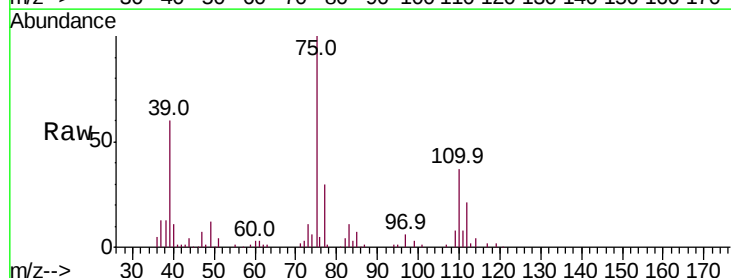
Tgt Ion: 75 Resp: 98673

Ion Ratio Lower Upper

75 100

110 37.3 18.6 55.6

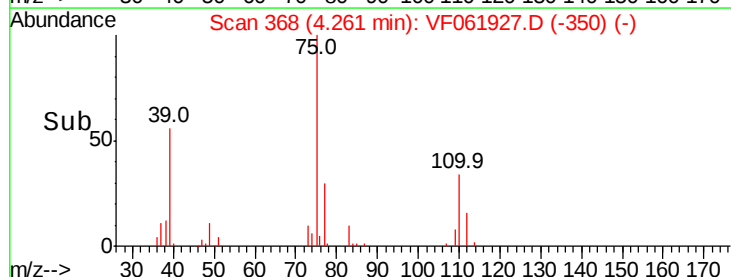
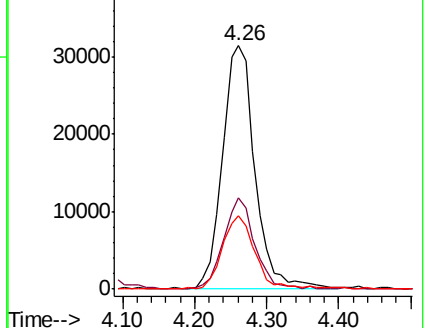
77 30.2 24.2 36.2

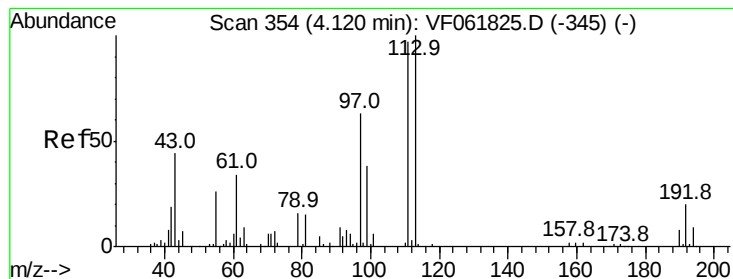


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0





#37

Ethyl Acetate

Concen: 22.500 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.04 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

Instrument :

MSVOA_F

ClientSampleId :

VF0313SBS01

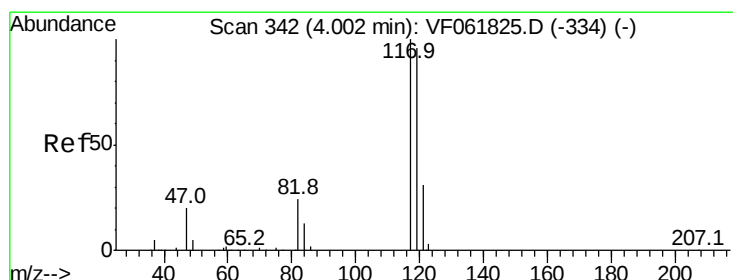
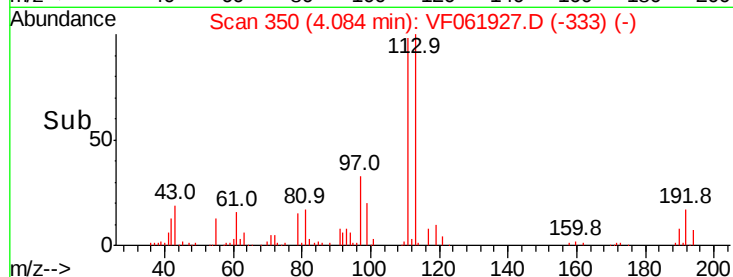
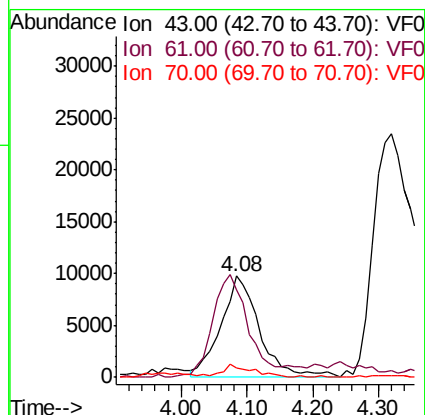
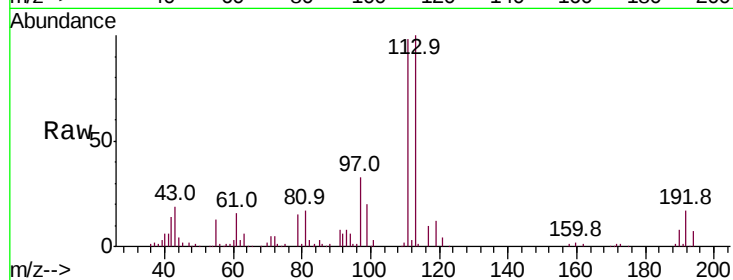
Tot Ion: 43 Resp: 39999

Ion Ratio Lower Upper

43 100

61 85.7 60.7 91.1

70 9.6 10.6 15.8#



#38

Carbon Tetrachloride

Concen: 23.733 ug/l

RT: 3.97 min Scan# 338

Delta R.T. -0.04 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

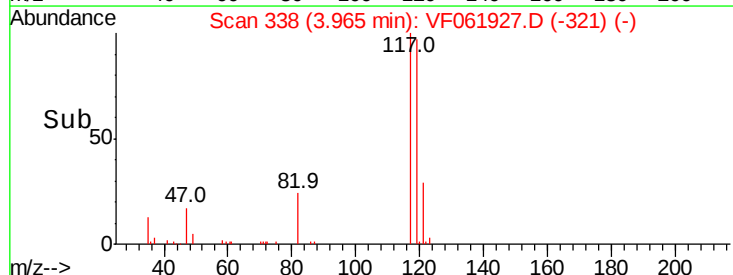
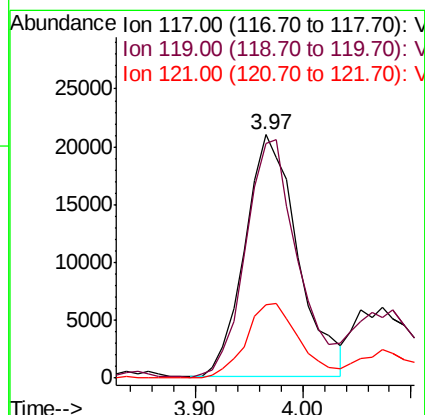
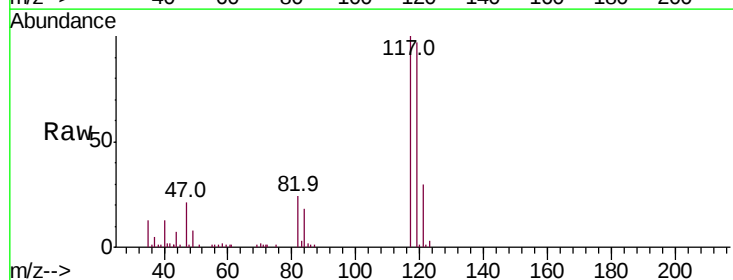
Tgt Ion: 117 Resp: 71156

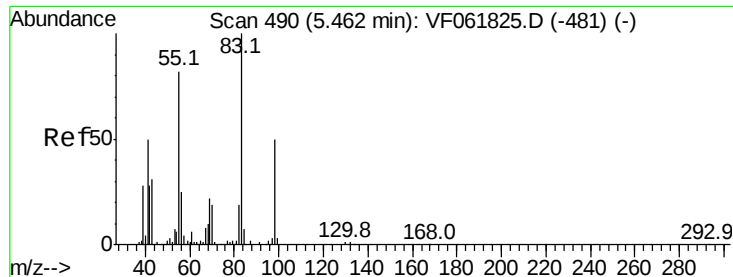
Ion Ratio Lower Upper

117 100

119 96.6 76.6 114.8

121 30.6 24.4 36.6

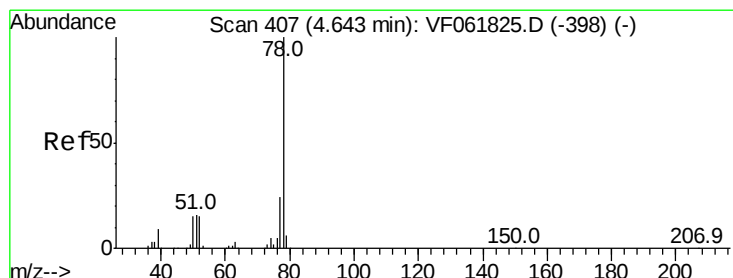
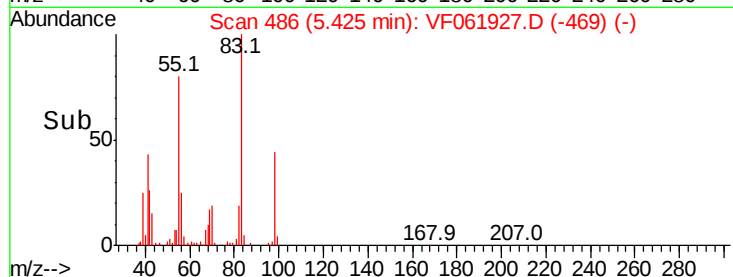
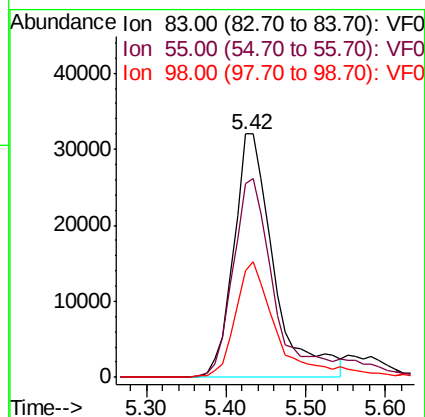
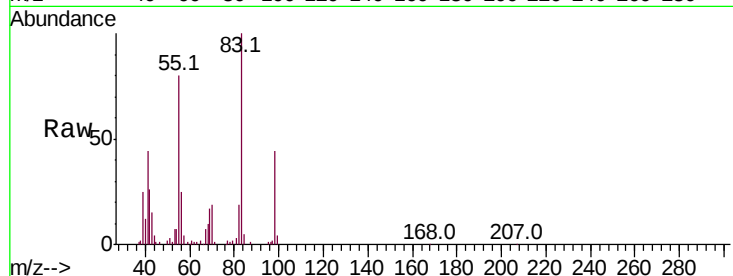




#39
Methvlcvclohexane
Concen: 22.498 ug/l
RT: 5.42 min Scan# 486
Delta R.T. -0.04 min
Lab File: VF061927.D
Acq: 13 Mar 2019 15:00

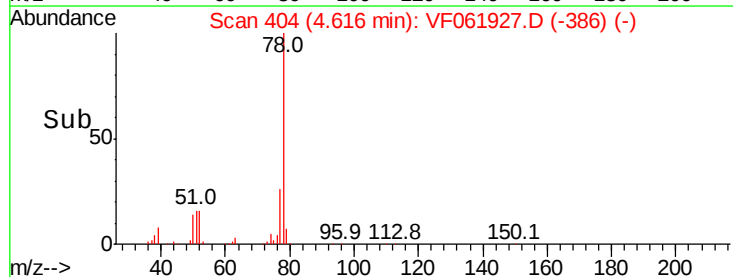
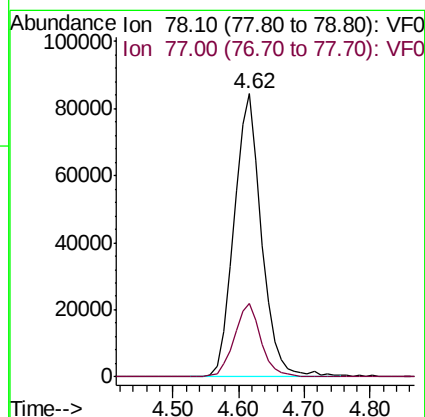
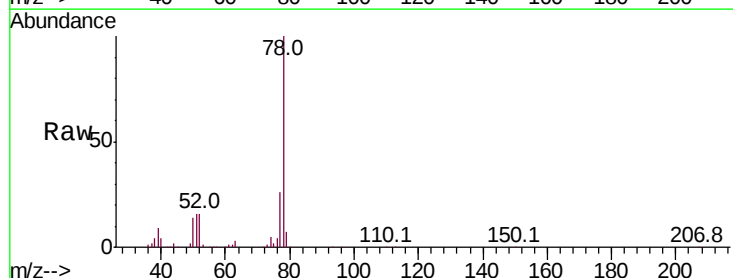
Instrument :
MSVOA_F
ClientSampleId :
VF0313SBS01

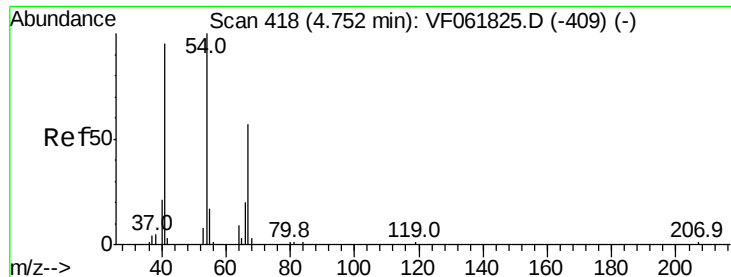
Tot Ion: 83 Resp: 112548
Ion Ratio Lower Upper
83 100
55 79.8 66.0 99.0
98 43.6 39.8 59.6



#40
Benzene
Concen: 22.295 ug/l
RT: 4.62 min Scan# 404
Delta R.T. -0.03 min
Lab File: VF061927.D
Acq: 13 Mar 2019 15:00

Tgt Ion: 78 Resp: 246820
Ion Ratio Lower Upper
78 100
77 25.8 19.5 29.3





#41

Methacrylonitrile

Concen: 23.824 ug/l

RT: 4.71 min Scan# 414

Delta R.T. -0.04 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

Instrument :

MSVOA_F

ClientSampleId :

VF0313SBS01

Tot Ion: 41 Resp: 23205

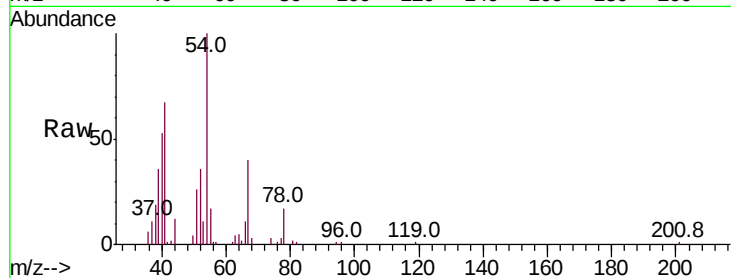
Ion	Ratio	Lower	Upper
41	100		
39	54.1	43.0	64.6
67	58.8	47.8	71.8
52	53.4	40.5	60.7

41 100

39 54.1 43.0 64.6

67 58.8 47.8 71.8

52 53.4 40.5 60.7

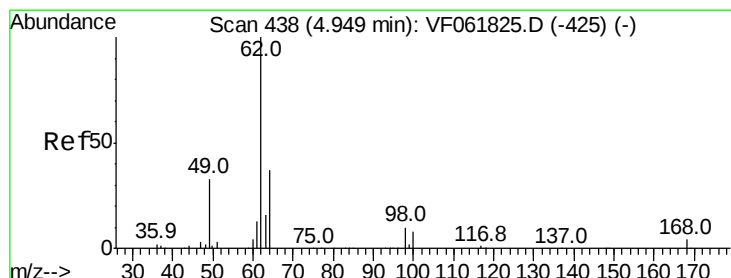
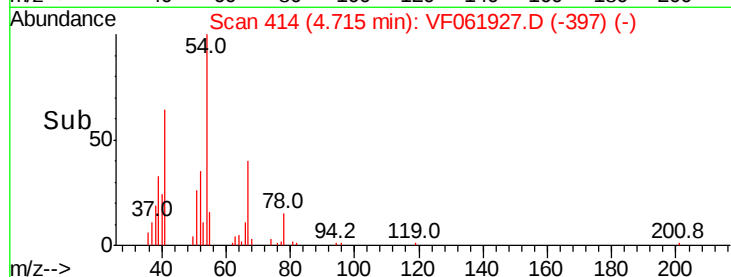
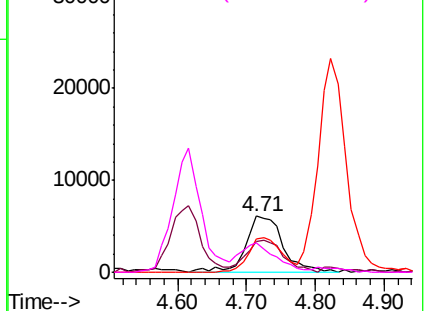


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 21.992 ug/l

RT: 4.92 min Scan# 435

Delta R.T. -0.03 min

Lab File: VF061927.D

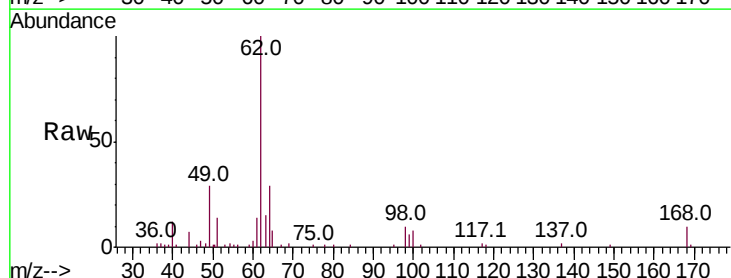
Acq: 13 Mar 2019 15:00

Tgt Ion: 62 Resp: 60675

Ion	Ratio	Lower	Upper
62	100		
98	10.0	0.0	21.0

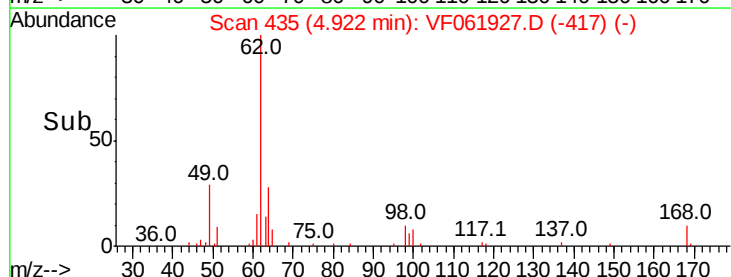
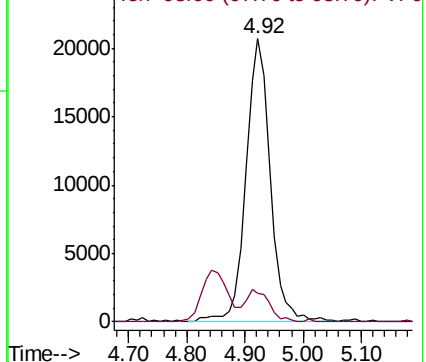
62 100

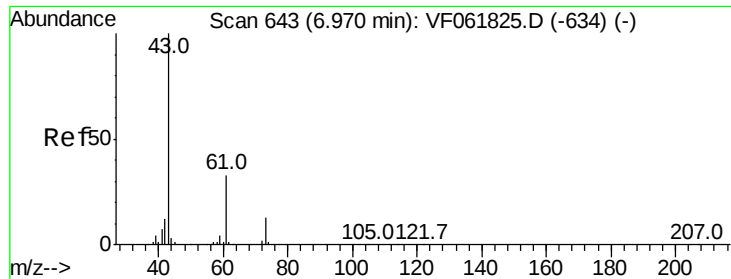
98 10.0 0.0 21.0



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



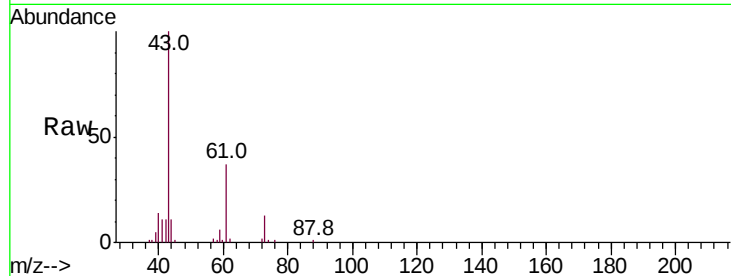


#43

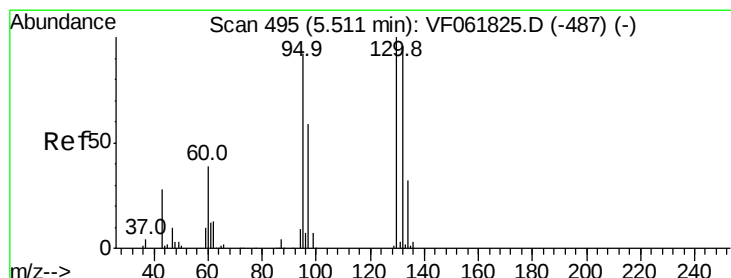
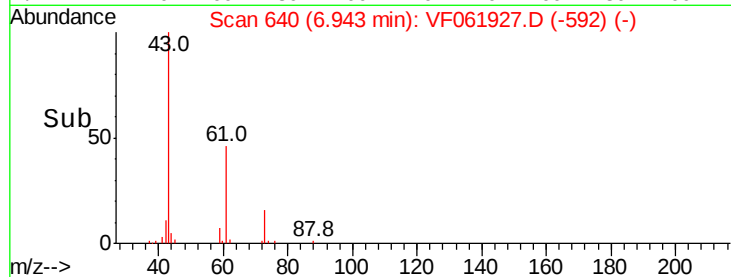
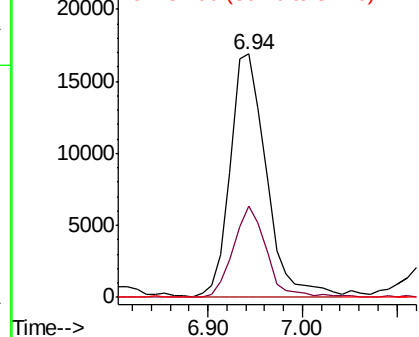
Isopropyl Acetate
 Concen: 20.527 ug/l
 RT: 6.94 min Scan# 640
 Delta R.T. -0.03 min
 Lab File: VF061927.D
 Acq: 13 Mar 2019 15:00

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0313SBS01

Tot Ion: 43 Resp: 44982
 Ion Ratio Lower Upper
 43 100
 61 37.3 26.1 39.1
 87 0.0 0.0 0.0



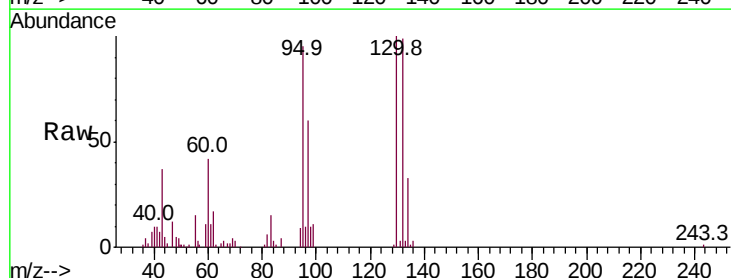
Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 87.00 (86.70 to 87.70): VF0



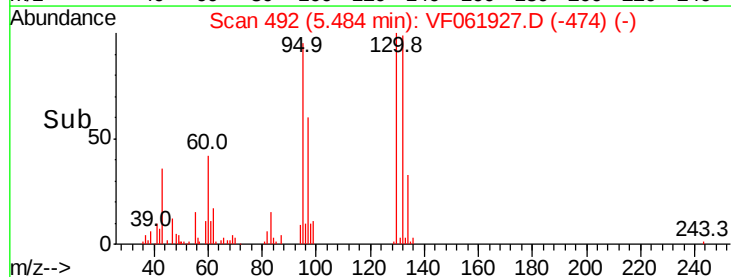
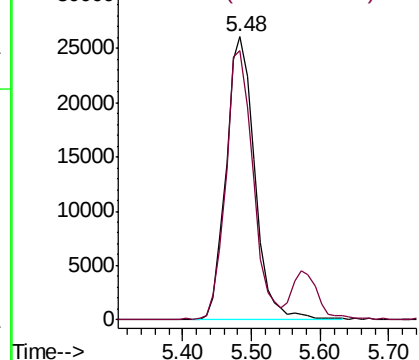
#44

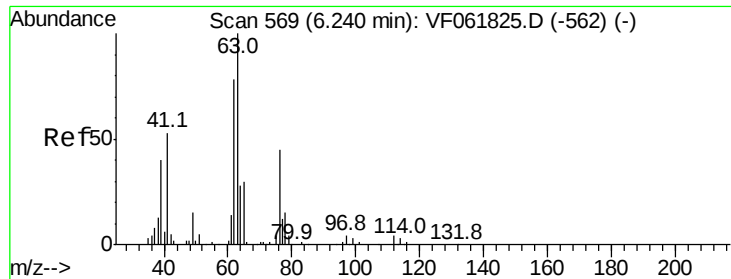
Trichloroethene
 Concen: 21.797 ug/l
 RT: 5.48 min Scan# 492
 Delta R.T. -0.03 min
 Lab File: VF061927.D
 Acq: 13 Mar 2019 15:00

Tgt Ion: 130 Resp: 74993
 Ion Ratio Lower Upper
 130 100
 95 95.1 0.0 184.0



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





#45

1,2-Dichloropropane

Concen: 21.926 ug/l

RT: 6.21 min Scan# 566

Delta R.T. -0.03 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

Instrument :

MSVOA_F

ClientSampleId :

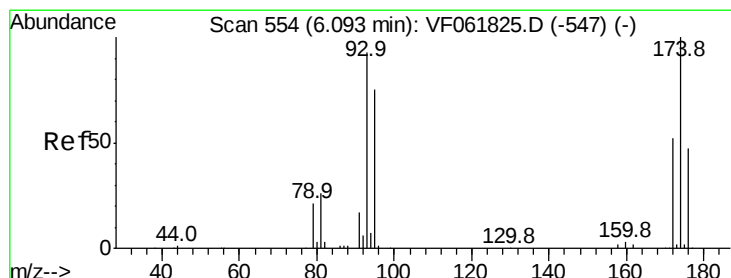
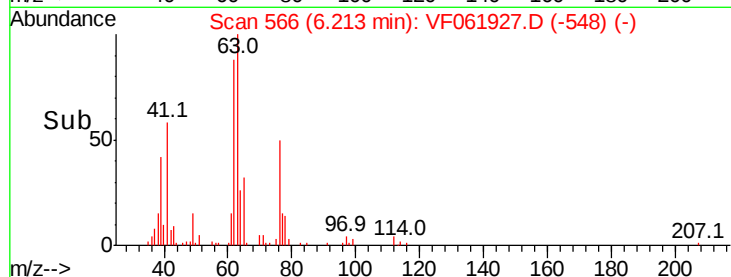
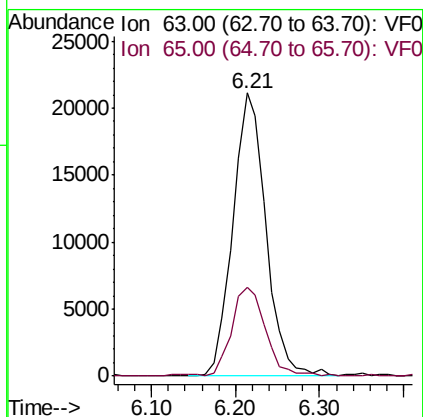
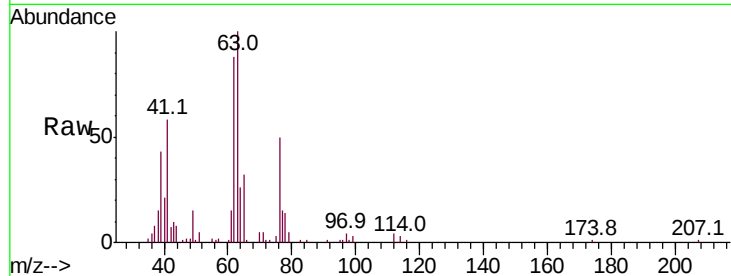
VF0313SBS01

Tot Ion: 63 Resp: 57721

Ion Ratio Lower Upper

63 100

65 31.6 24.0 36.0



#46

Dibromomethane

Concen: 21.932 ug/l

RT: 6.07 min Scan# 551

Delta R.T. -0.03 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

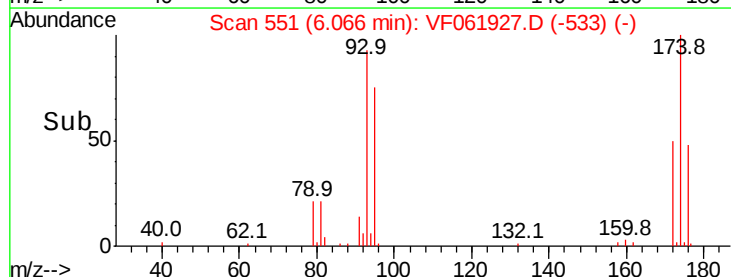
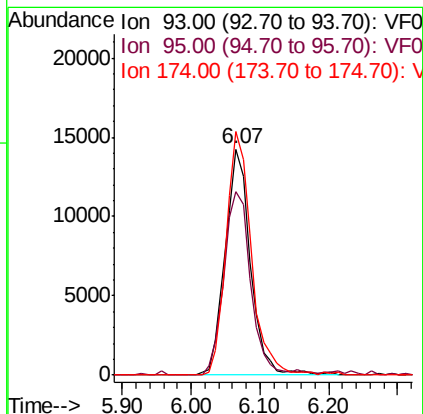
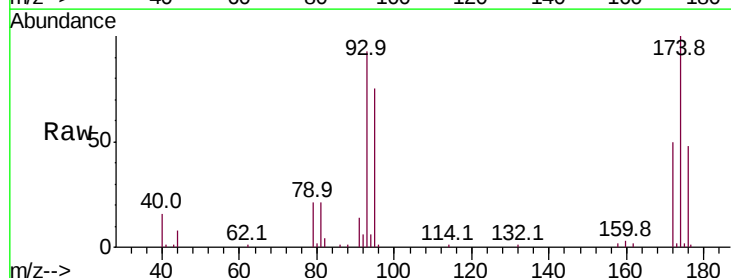
Tgt Ion: 93 Resp: 36338

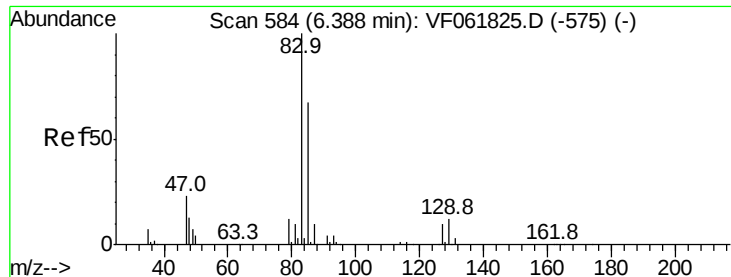
Ion Ratio Lower Upper

93 100

95 81.2 64.4 96.6

174 107.8 85.8 128.6





#47

Bromodichloromethane

Concen: 22.261 ug/l

RT: 6.36 min Scan# 581

Delta R.T. -0.03 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

Instrument :

MSVOA_F

ClientSampleId :

VF0313SBS01

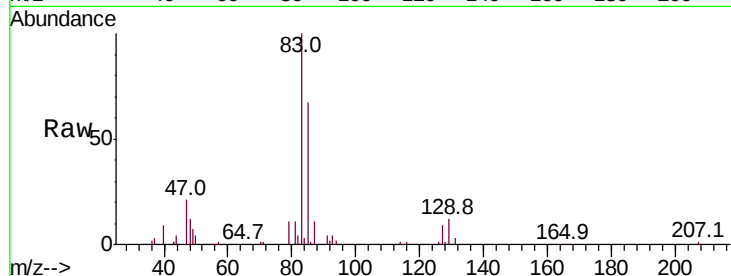
Tot Ion: 83 Resp: 81482

Ion Ratio Lower Upper

83 100

85 66.9 53.6 80.4

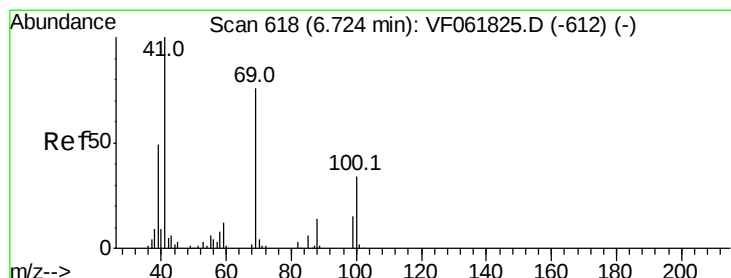
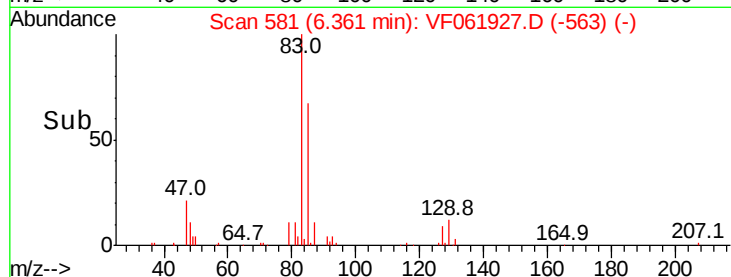
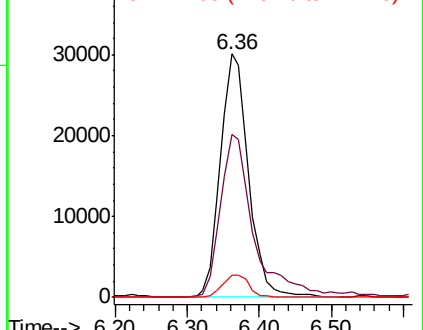
127 9.2 8.1 12.1



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 19.414 ug/l

RT: 6.70 min Scan# 615

Delta R.T. -0.03 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

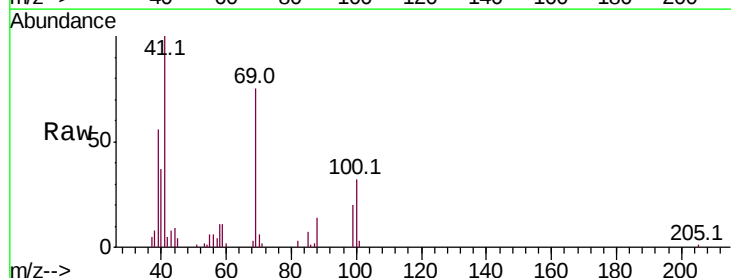
Tgt Ion: 41 Resp: 26925

Ion Ratio Lower Upper

41 100

69 74.5 60.4 90.6

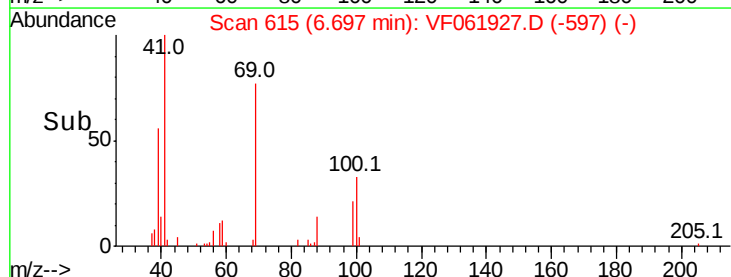
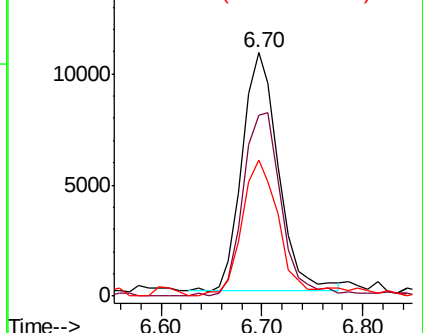
39 55.6 39.7 59.5

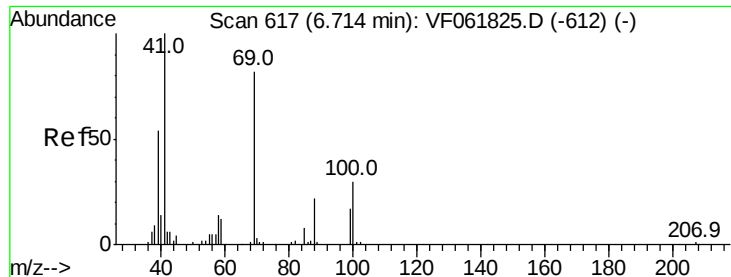


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

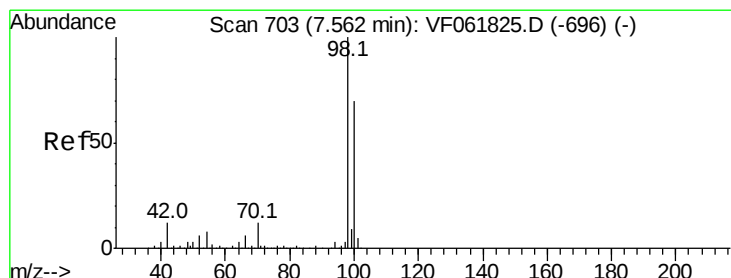
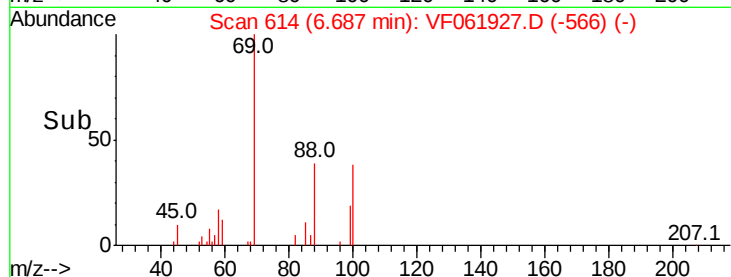
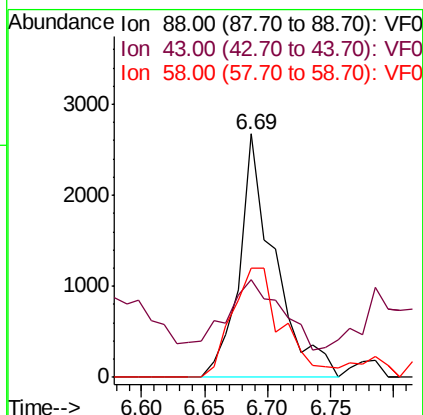
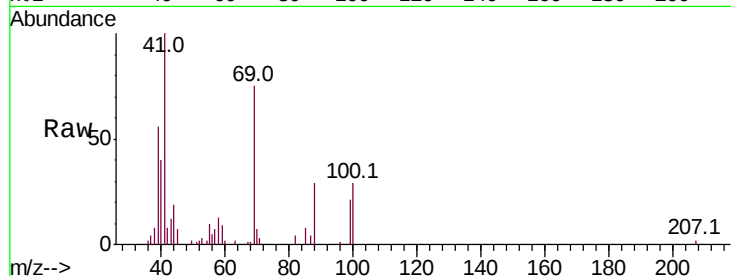




#49
1,4-Dioxane
Concen: 407.401 ug/l
RT: 6.69 min Scan# 614
Delta R.T. -0.03 min
Lab File: VF061927.D
Acq: 13 Mar 2019 15:00

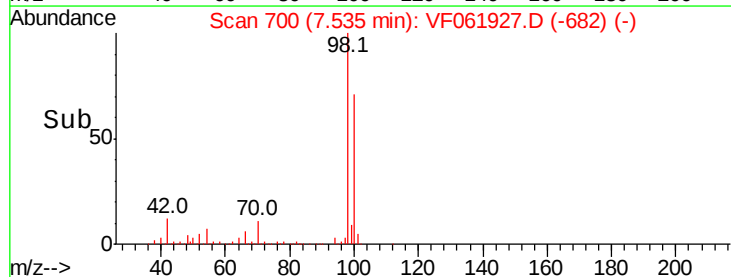
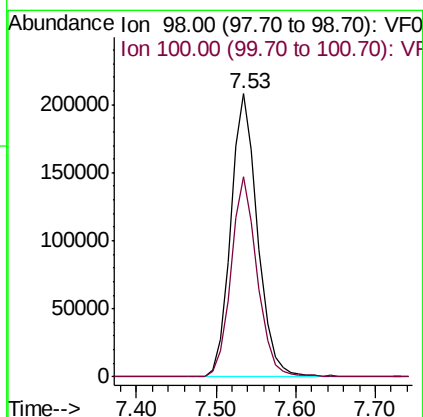
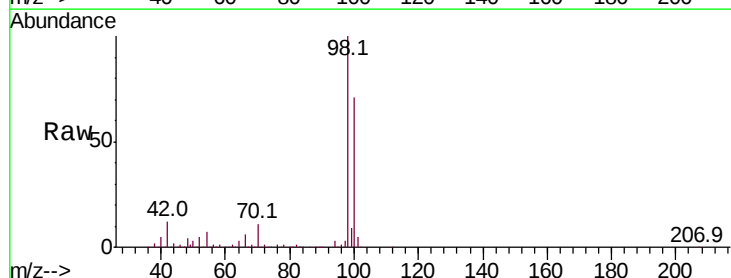
Instrument :
MSVOA_F
ClientSampleId :
VF0313SBS01

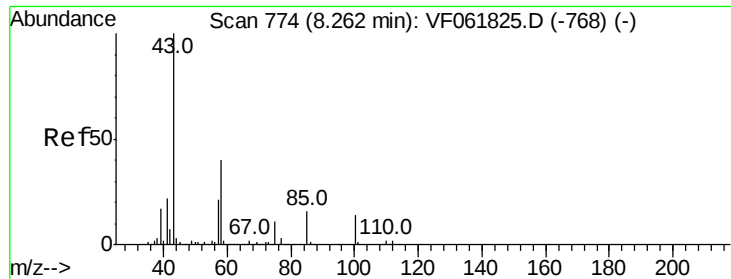
Tot Ion: 88 Resp: 5165
Ion Ratio Lower Upper
88 100
43 40.1 28.4 42.6
58 44.7 50.7 76.1#



#50
Toluene-d8
Concen: 52.570 ug/l
RT: 7.53 min Scan# 700
Delta R.T. -0.03 min
Lab File: VF061927.D
Acq: 13 Mar 2019 15:00

Tgt Ion: 98 Resp: 488932
Ion Ratio Lower Upper
98 100
100 70.5 56.0 84.0





#51

4-Methyl-2-Pentanone

Concen: 112.198 ug/l

RT: 8.23 min Scan# 771

Delta R.T. -0.03 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

Instrument :

MSVOA_F

ClientSampleId :

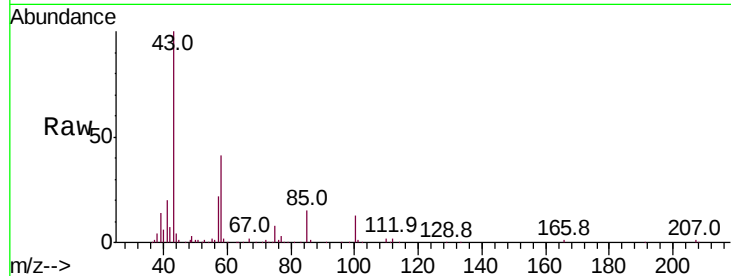
VF0313SBS01

Tot Ion: 43 Resp: 169927

Ion Ratio Lower Upper

43 100

58 41.1 31.8 47.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.23

60000

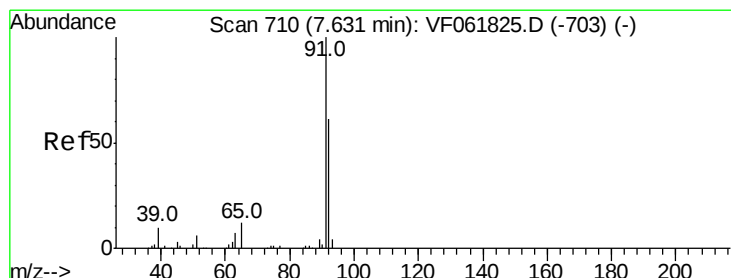
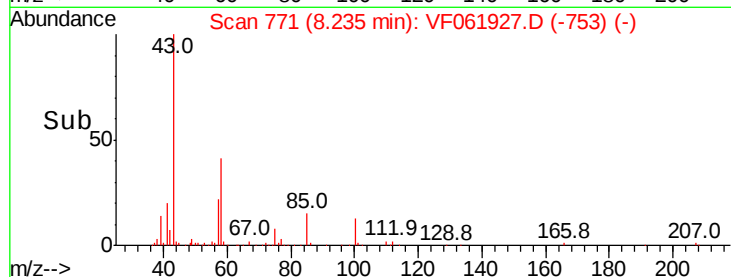
40000

20000

0

8.10 8.20 8.30 8.40

Time-->



#52

Toluene

Concen: 22.815 ug/l

RT: 7.60 min Scan# 707

Delta R.T. -0.03 min

Lab File: VF061927.D

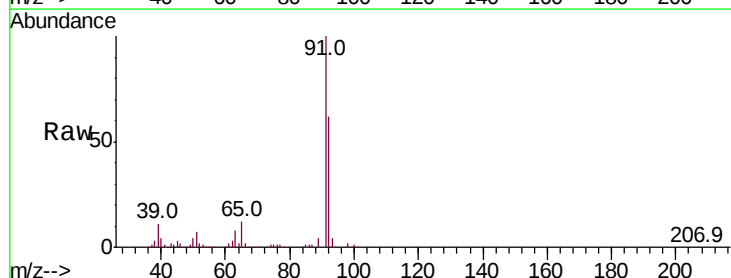
Acq: 13 Mar 2019 15:00

Tgt Ion: 92 Resp: 149422

Ion Ratio Lower Upper

92 100

91 160.0 132.0 198.0



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

120000

100000

80000

60000

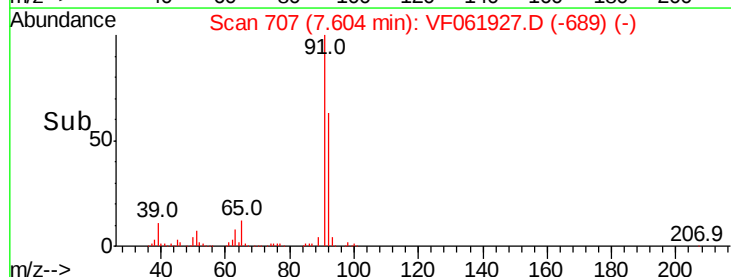
40000

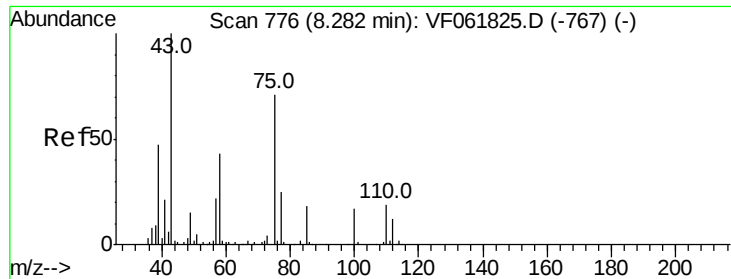
20000

0

7.50 7.60 7.70 7.80

Time-->

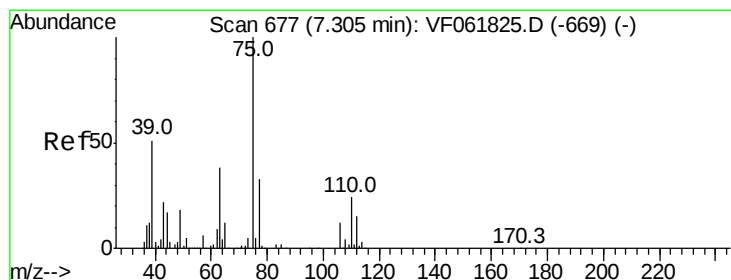
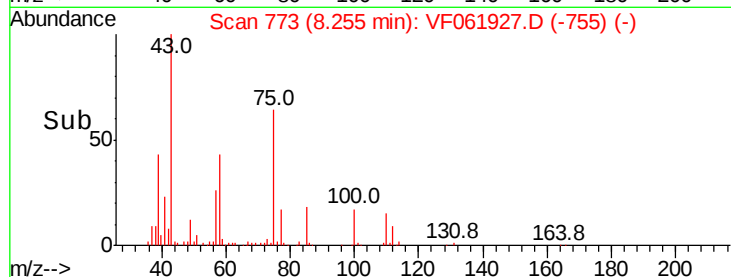
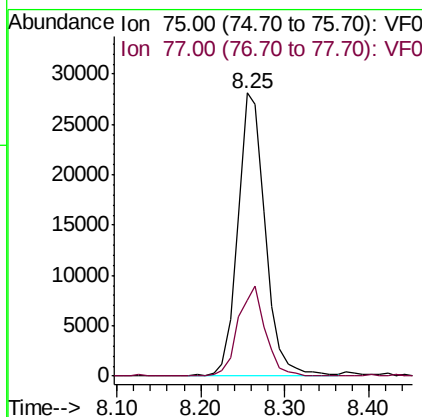
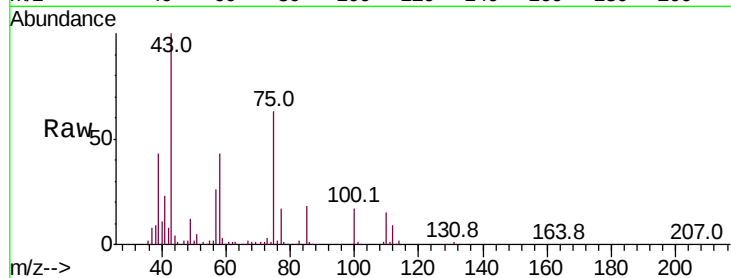




#53
 t-1,3-Dichloropropene
 Concen: 21.095 ug/l
 RT: 8.25 min Scan# 773
 Delta R.T. -0.03 min
 Lab File: VF061927.D
 Acq: 13 Mar 2019 15:00

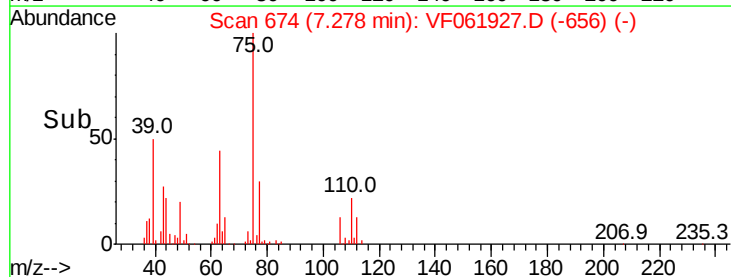
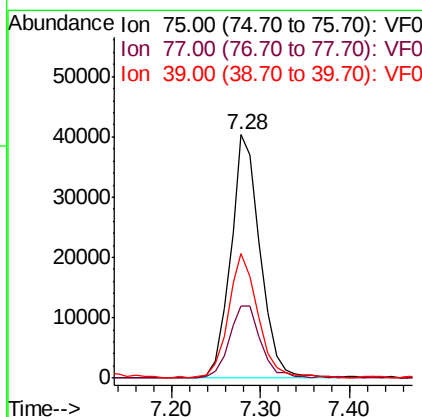
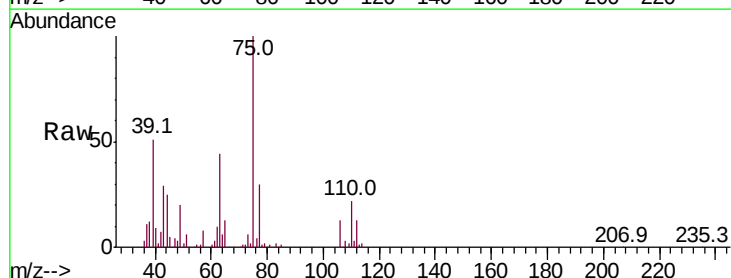
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0313SBS01

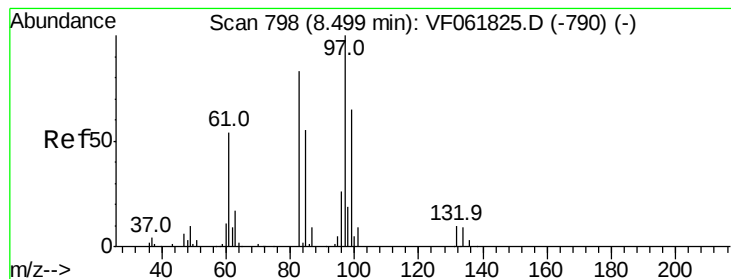
Tot Ion: 75 Resp: 63738
 Ion Ratio Lower Upper
 75 100
 77 27.1 28.0 42.0#



#54
 cis-1,3-Dichloropropene
 Concen: 22.333 ug/l
 RT: 7.28 min Scan# 674
 Delta R.T. -0.03 min
 Lab File: VF061927.D
 Acq: 13 Mar 2019 15:00

Tgt Ion: 75 Resp: 93076
 Ion Ratio Lower Upper
 75 100
 77 29.9 26.3 39.5
 39 51.2 40.8 61.2





#55

1,1,2-Trichloroethane

Concen: 20.357 ug/l

RT: 8.47 min Scan# 795

Delta R.T. -0.03 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

Instrument :

MSVOA_F

ClientSampleId :

VF0313SBS01

Tot Ion: 97 Resp: 38413

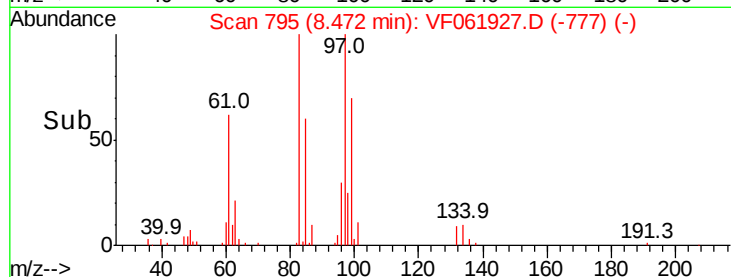
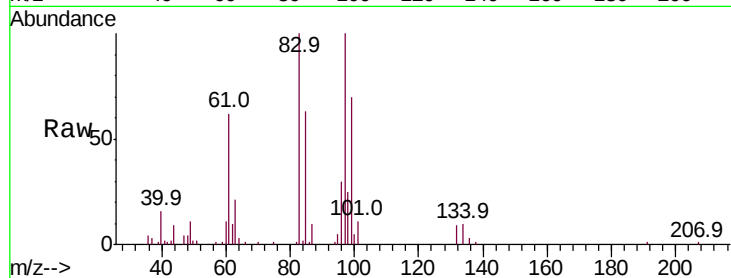
Ion	Ratio	Lower	Upper
97	100		
83	99.9	66.5	99.7#
85	62.9	44.2	66.2
99	69.8	51.8	77.6

97 100

83 99.9 66.5 99.7#

85 62.9 44.2 66.2

99 69.8 51.8 77.6

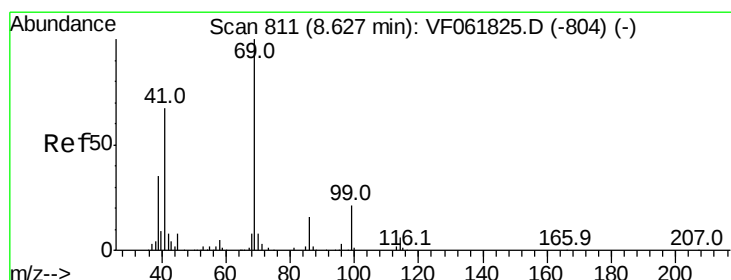
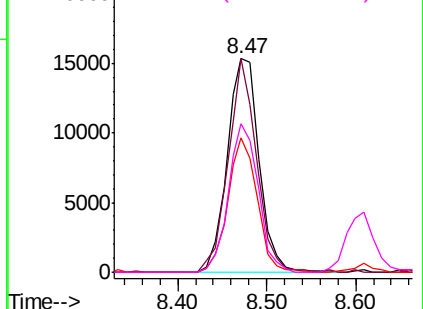


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 20.383 ug/l

RT: 8.60 min Scan# 808

Delta R.T. -0.03 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

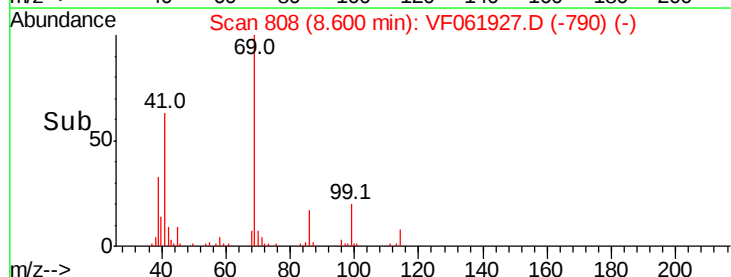
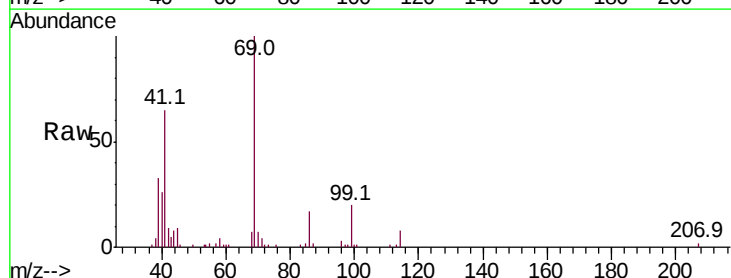
Tgt Ion: 69 Resp: 43348

Ion	Ratio	Lower	Upper
69	100		
41	65.3	53.9	80.9
39	32.9	28.3	42.5

69 100

41 65.3 53.9 80.9

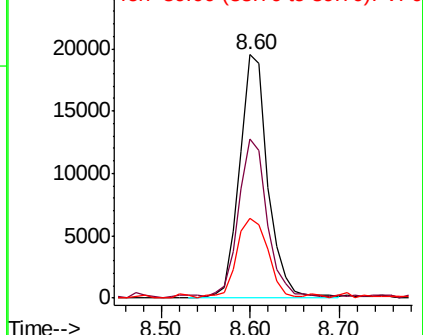
39 32.9 28.3 42.5

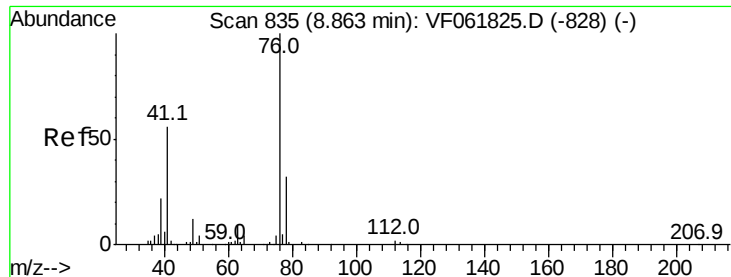


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 21.506 ug/l

RT: 8.84 min Scan# 832

Delta R.T. -0.03 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

Instrument :

MSVOA_F

ClientSampleId :

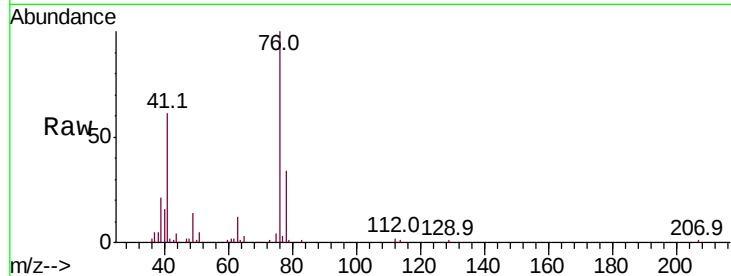
VF0313SBS01

Tot Ion: 76 Resp: 66368

Ion Ratio Lower Upper

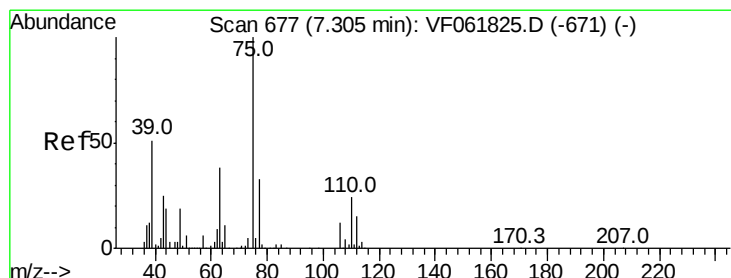
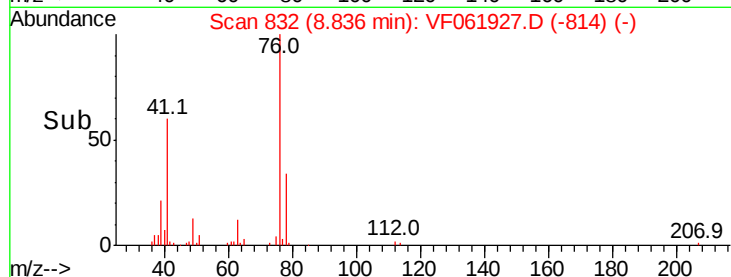
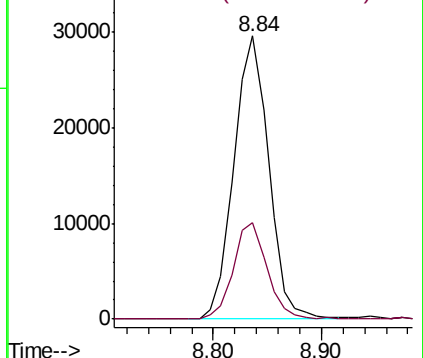
76 100

78 34.1 25.4 38.2



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: 124.135 ug/l

RT: 7.28 min Scan# 674

Delta R.T. -0.03 min

Lab File: VF061927.D

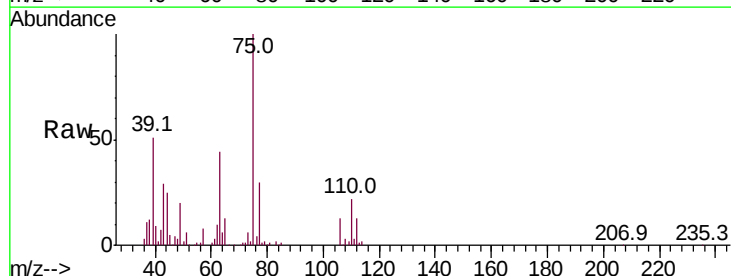
Acq: 13 Mar 2019 15:00

Tgt Ion: 63 Resp: 41761

Ion Ratio Lower Upper

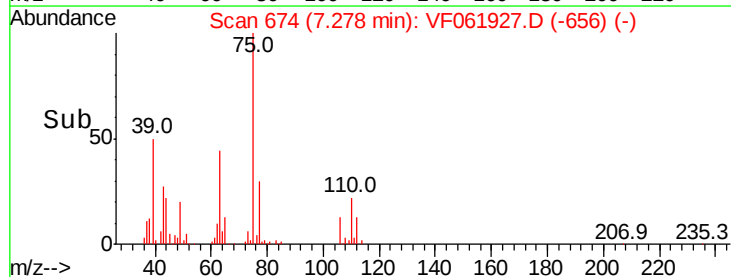
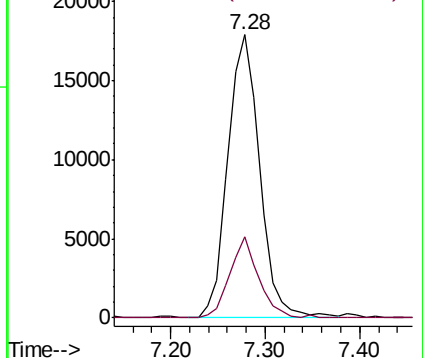
63 100

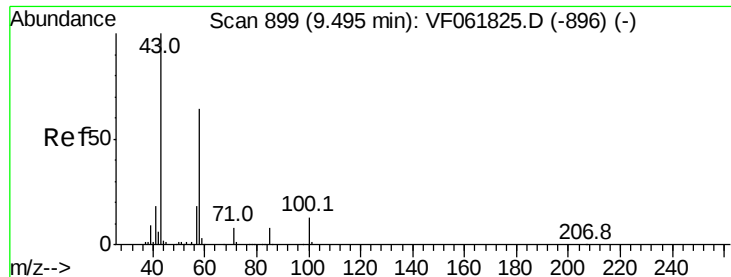
106 28.7 24.3 36.5



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V





#59

2-Hexanone

Concen: 121.204 ug/l

RT: 9.48 min Scan# 897

Delta R.T. -0.02 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

Instrument :

MSVOA_F

ClientSampleId :

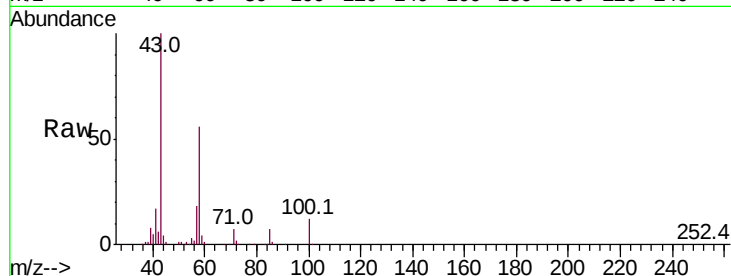
VF0313SBS01

Tot Ion: 43 Resp: 132428

Ion Ratio Lower Upper

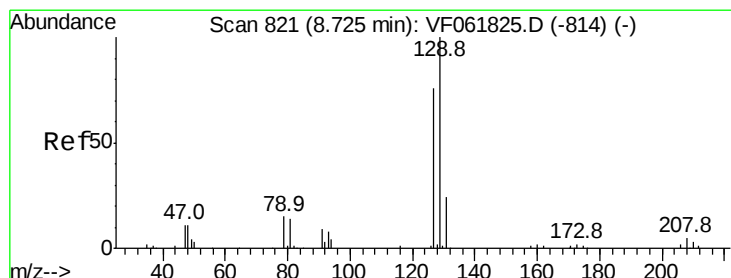
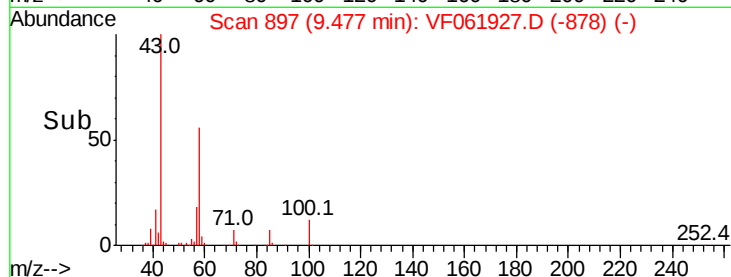
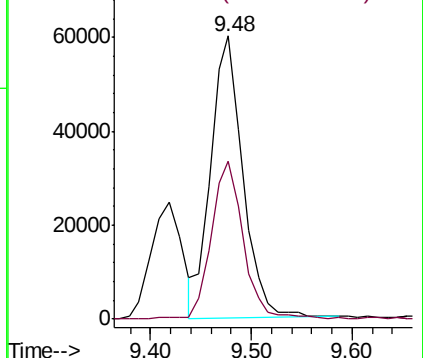
43 100

58 55.7 28.8 86.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#60

Dibromochloromethane

Concen: 20.863 ug/l

RT: 8.70 min Scan# 818

Delta R.T. -0.03 min

Lab File: VF061927.D

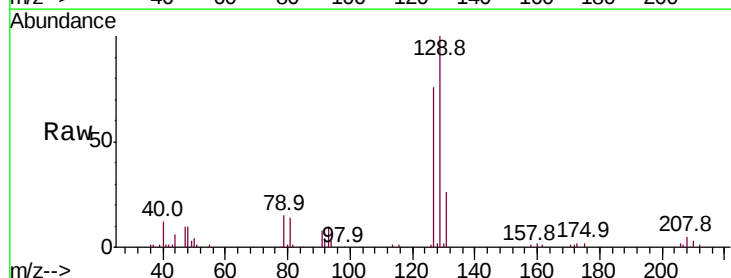
Acq: 13 Mar 2019 15:00

Tgt Ion: 129 Resp: 56110

Ion Ratio Lower Upper

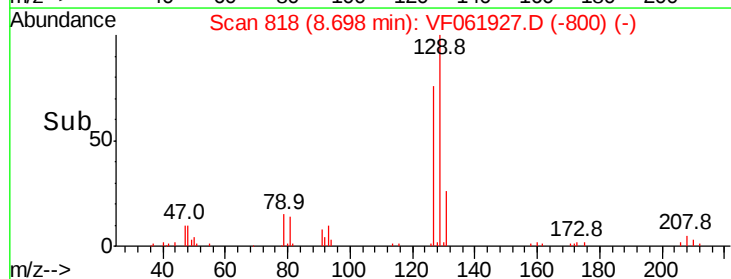
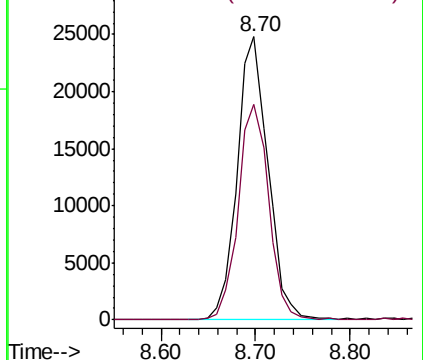
129 100

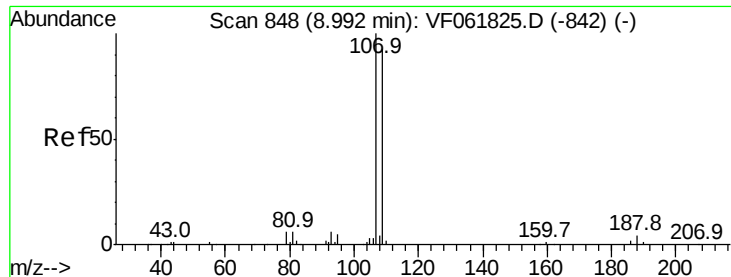
127 76.4 38.2 114.6



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

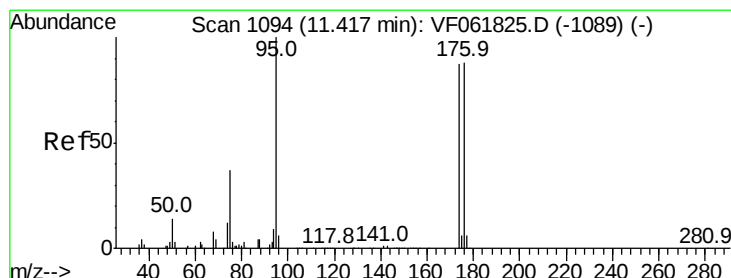
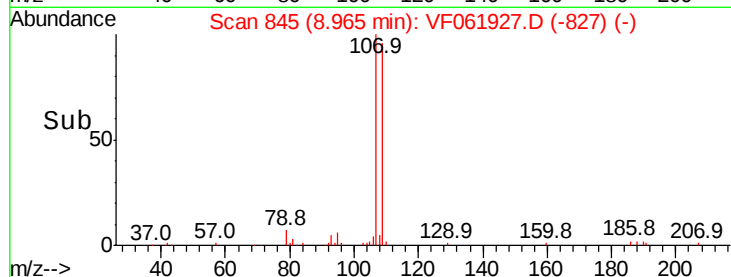
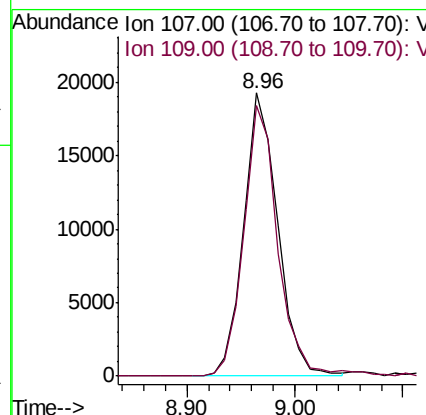
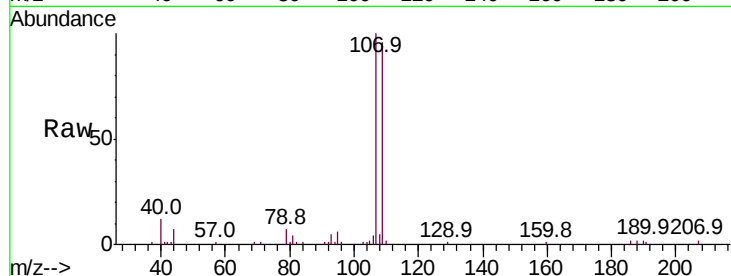




#61
1,2-Dibromoethane
Concen: 20.306 ug/l
RT: 8.96 min Scan# 845
Delta R.T. -0.03 min
Lab File: VF061927.D
Acq: 13 Mar 2019 15:00

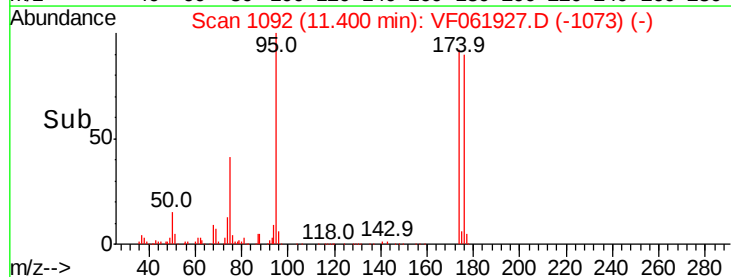
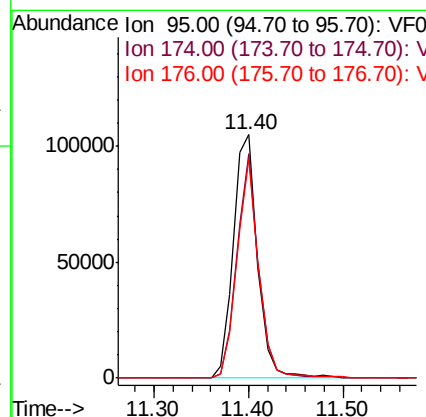
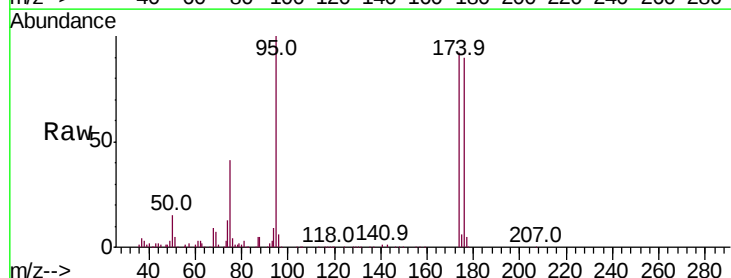
Instrument :
MSVOA_F
ClientSampleId :
VF0313SBS01

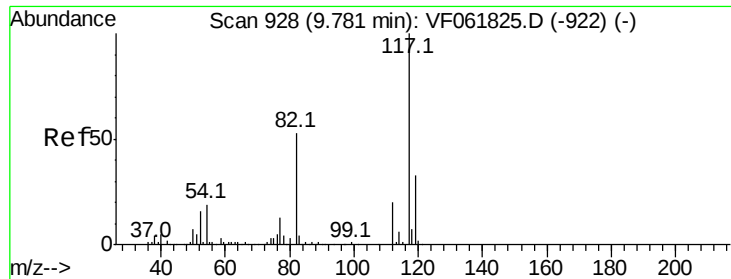
Tot Ion:107 Resp: 42137
Ion Ratio Lower Upper
107 100
109 95.7 74.6 112.0



#62
4-Bromofluorobenzene
Concen: 51.233 ug/l
RT: 11.40 min Scan# 1092
Delta R.T. -0.02 min
Lab File: VF061927.D
Acq: 13 Mar 2019 15:00

Tgt Ion: 95 Resp: 186654
Ion Ratio Lower Upper
95 100
174 92.2 0.0 174.0
176 90.2 0.0 175.2

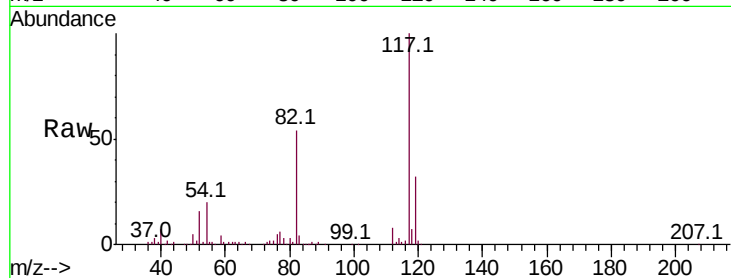




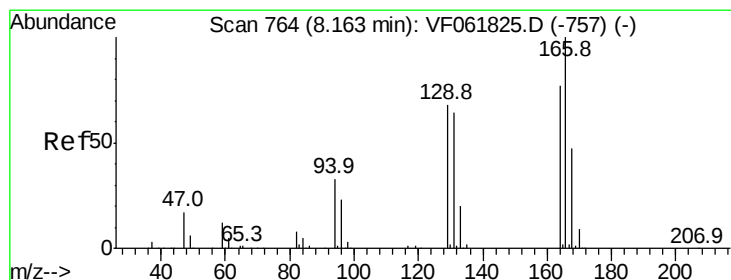
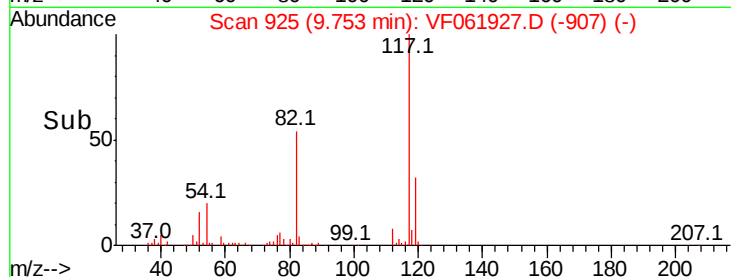
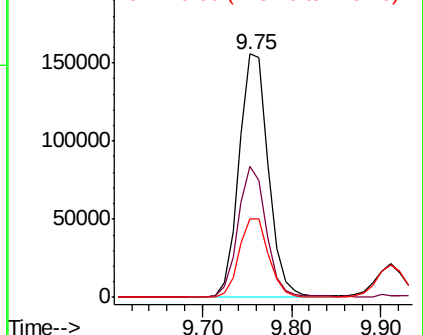
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.75 min Scan# 925
Delta R.T. -0.03 min
Lab File: VF061927.D
Acq: 13 Mar 2019 15:00

Instrument :
MSVOA_F
ClientSampleId :
VF0313SBS01

Tot Ion:117 Resp: 357786
Ion Ratio Lower Upper
117 100
82 53.6 42.6 63.8
119 32.2 26.0 39.0

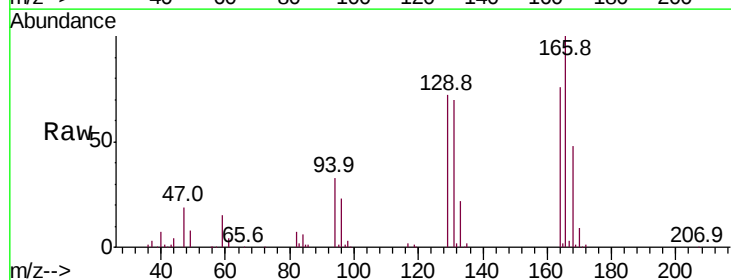


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

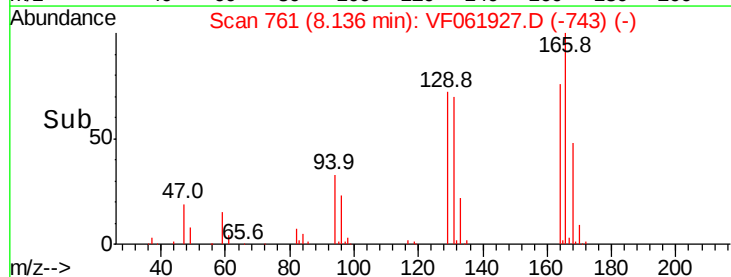
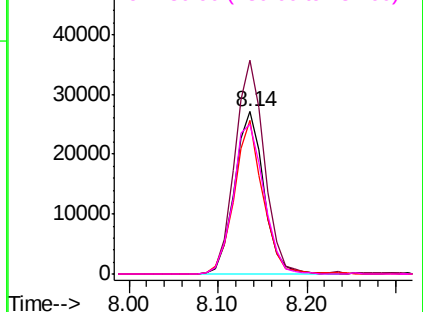


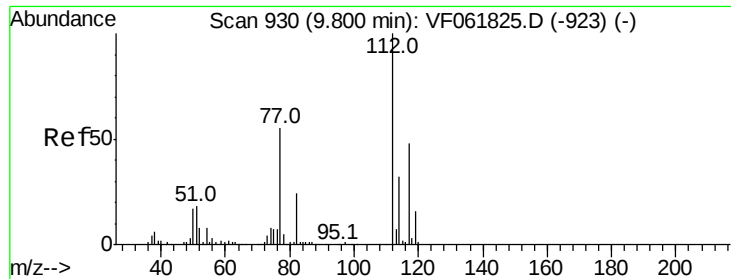
#64
Tetrachloroethene
Concen: 22.585 ug/l
RT: 8.14 min Scan# 761
Delta R.T. -0.03 min
Lab File: VF061927.D
Acq: 13 Mar 2019 15:00

Tgt Ion:164 Resp: 62090
Ion Ratio Lower Upper
164 100
166 131.8 103.4 155.0
129 94.6 69.9 104.9
131 92.5 66.4 99.6



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V

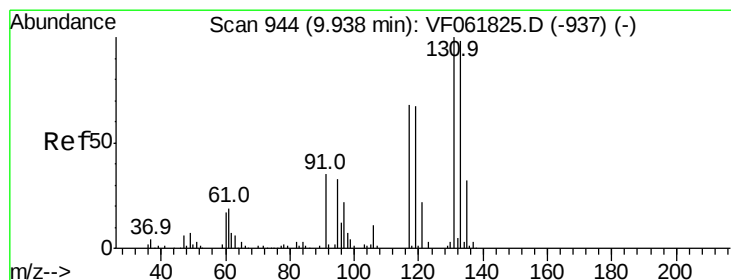
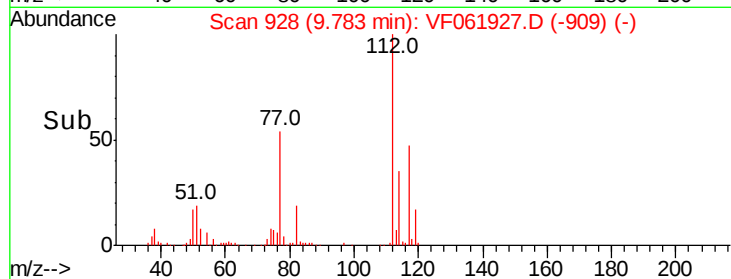
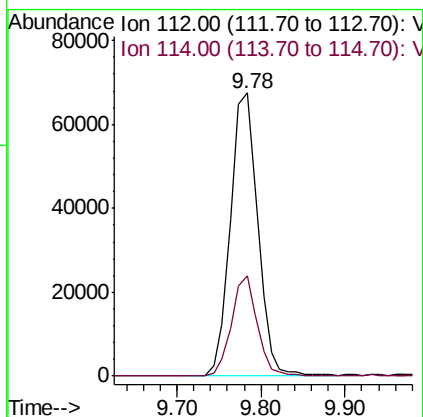
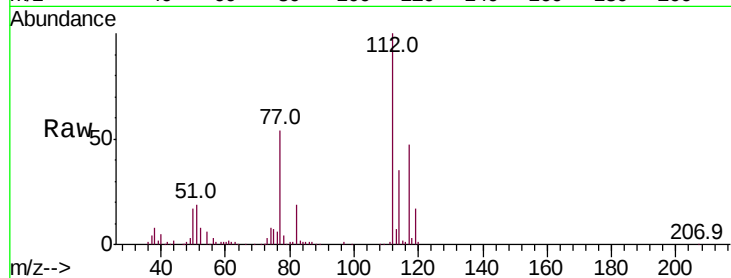




#65
Chlorobenzene
Concen: 22.364 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.02 min
Lab File: VF061927.D
Acq: 13 Mar 2019 15:00

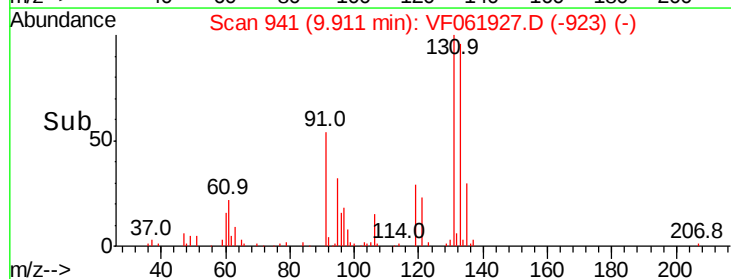
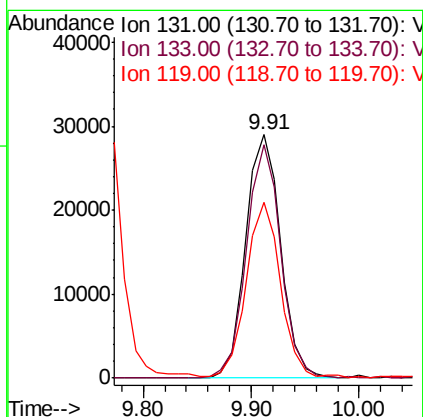
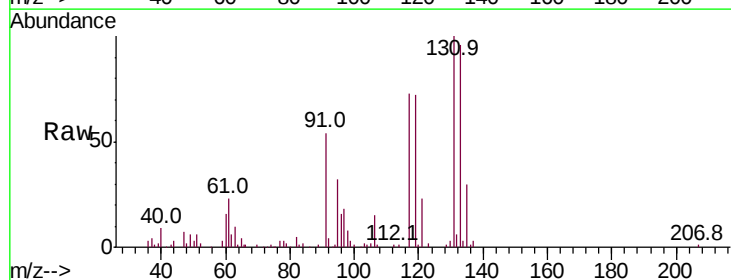
Instrument :
MSVOA_F
ClientSampleId :
VF0313SBS01

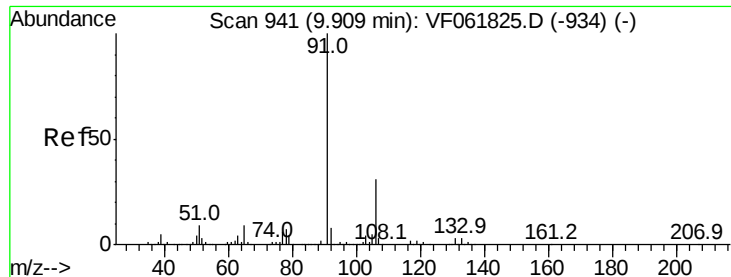
Tot Ion:112 Resp: 153729
Ion Ratio Lower Upper
112 100
114 35.3 25.5 38.3



#66
1,1,1,2-Tetrachloroethane
Concen: 24.536 ug/l
RT: 9.91 min Scan# 941
Delta R.T. -0.03 min
Lab File: VF061927.D
Acq: 13 Mar 2019 15:00

Tgt Ion:131 Resp: 65346
Ion Ratio Lower Upper
131 100
133 95.8 48.9 146.7
119 72.2 33.6 100.8





#67

Ethyl Benzene

Concen: 23.482 ug/l

RT: 9.88 min Scan# 938

Delta R.T. -0.03 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

Instrument :

MSVOA_F

ClientSampleId :

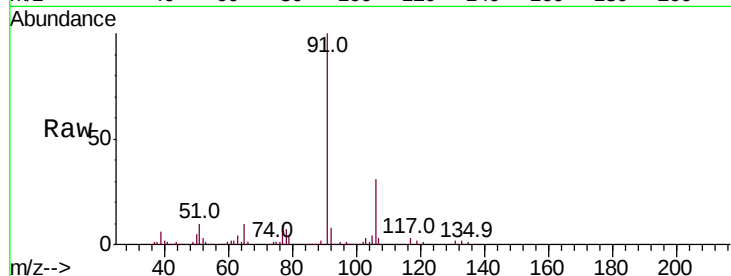
VF0313SBS01

Tot Ion: 91 Resp: 267536

Ion Ratio Lower Upper

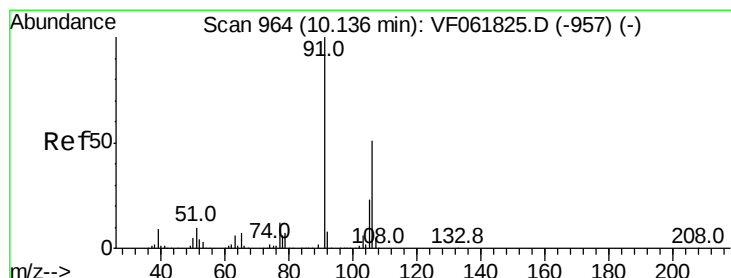
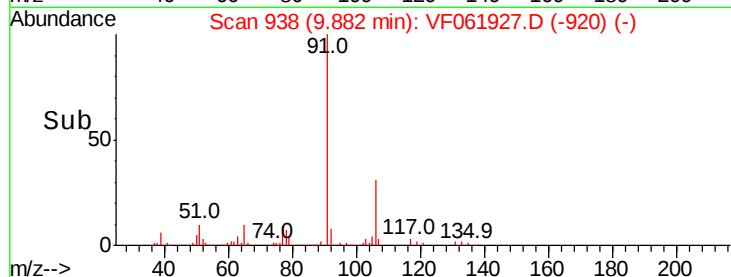
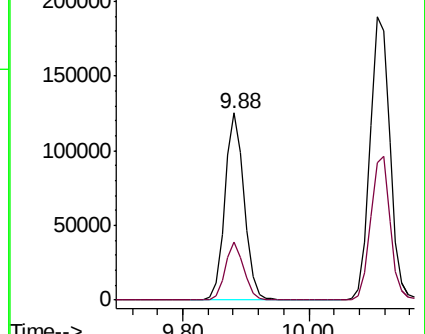
91 100

106 31.0 25.0 37.4



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 47.719 ug/l

RT: 10.12 min Scan# 962

Delta R.T. -0.02 min

Lab File: VF061927.D

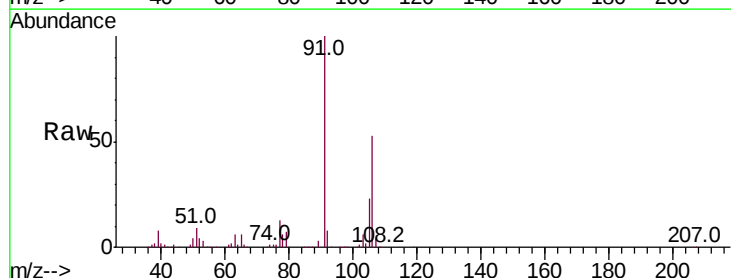
Acq: 13 Mar 2019 15:00

Tgt Ion:106 Resp: 208273

Ion Ratio Lower Upper

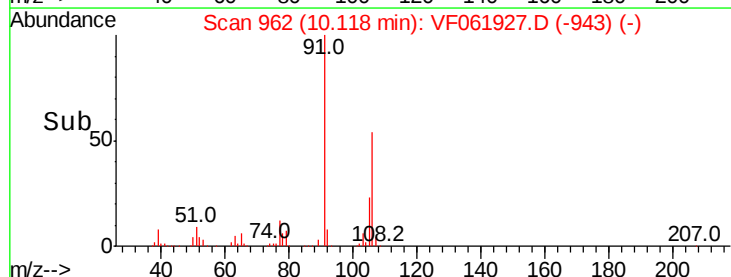
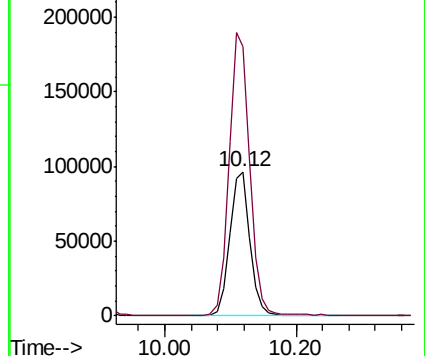
106 100

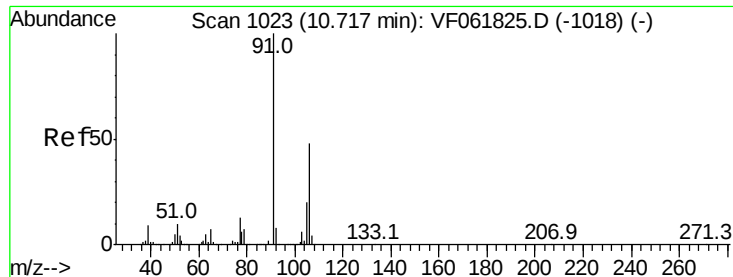
91 187.1 157.5 236.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

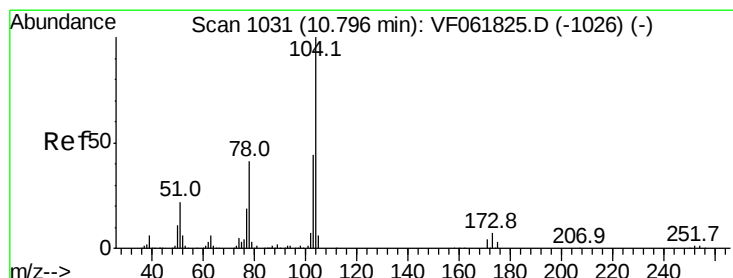
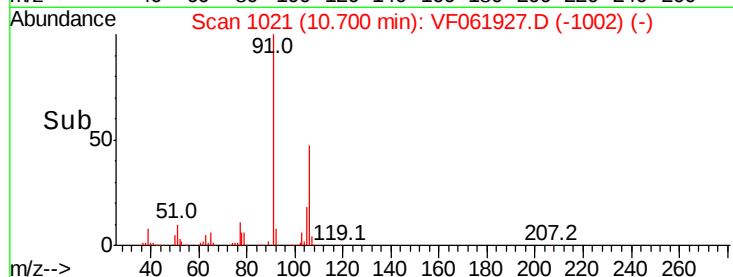
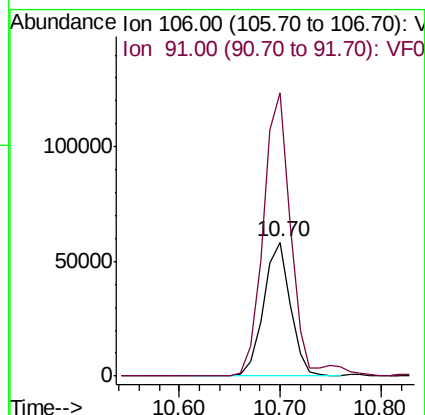
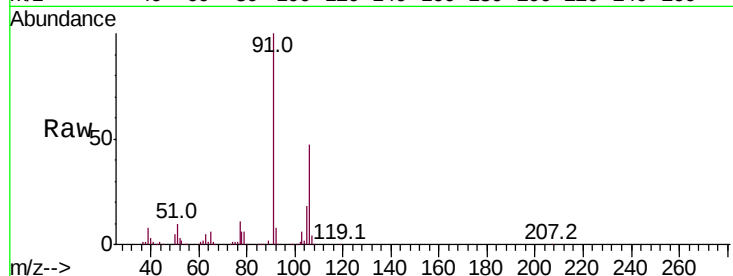




#69
o-Xylene
Concen: 22.911 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. -0.02 min
Lab File: VF061927.D
Acq: 13 Mar 2019 15:00

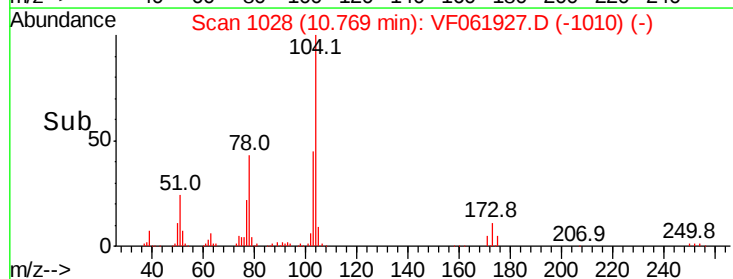
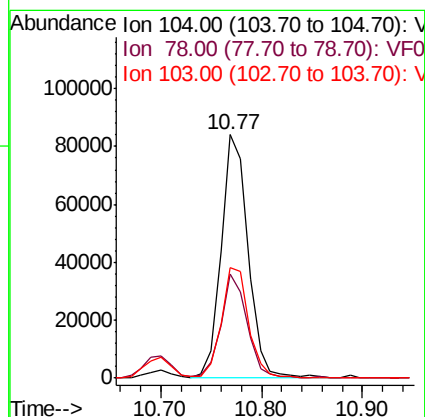
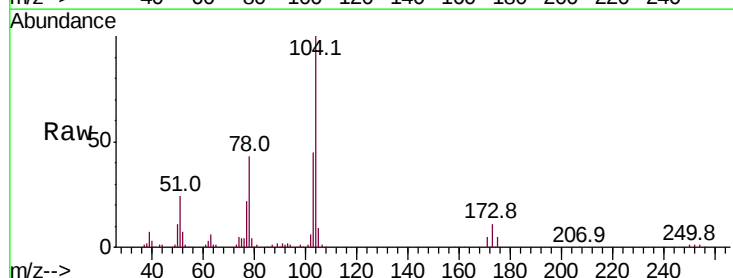
Instrument :
MSVOA_F
ClientSampleId :
VF0313SBS01

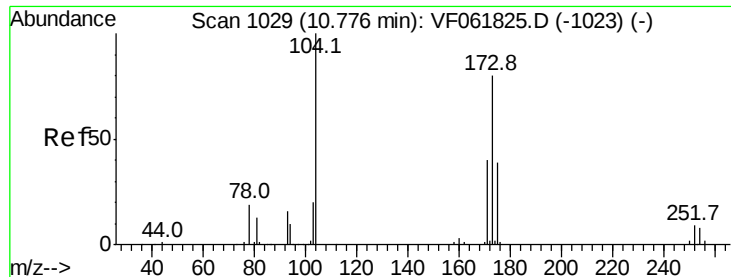
Tot Ion:106 Resp: 107675
Ion Ratio Lower Upper
106 100
91 211.4 103.5 310.3



#70
Styrene
Concen: 23.604 ug/l
RT: 10.77 min Scan# 1028
Delta R.T. -0.03 min
Lab File: VF061927.D
Acq: 13 Mar 2019 15:00

Tgt Ion:104 Resp: 156119
Ion Ratio Lower Upper
104 100
78 42.5 33.3 49.9
103 45.3 35.4 53.0

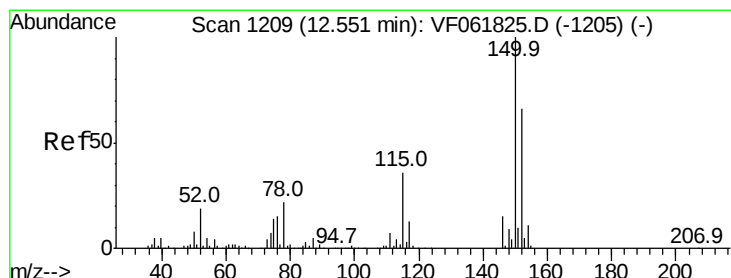
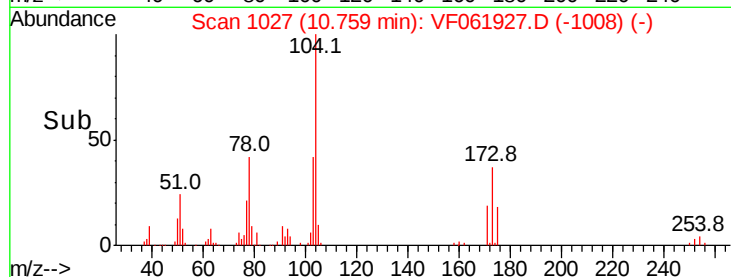
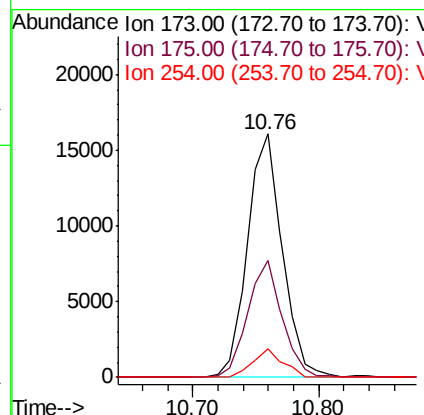
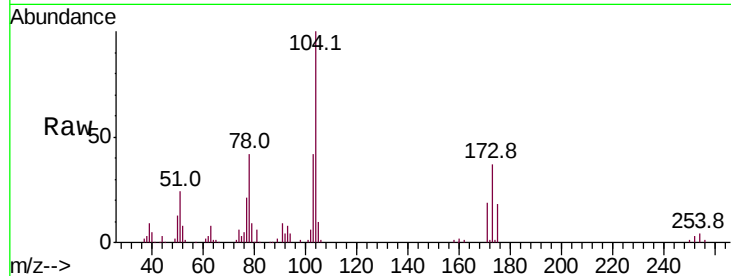




#71
Bromoform
Concen: 21.838 ug/l
RT: 10.76 min Scan# 1027
Delta R.T. -0.02 min
Lab File: VF061927.D
Acq: 13 Mar 2019 15:00

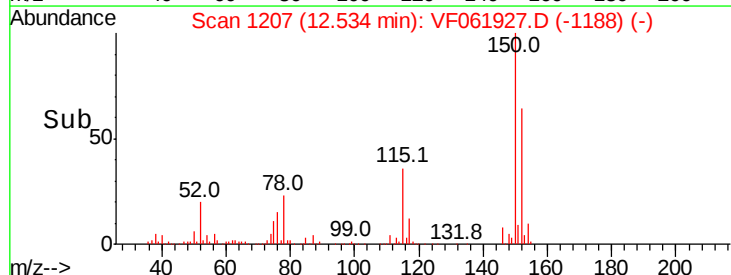
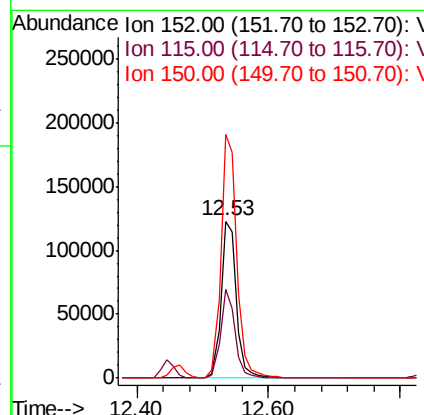
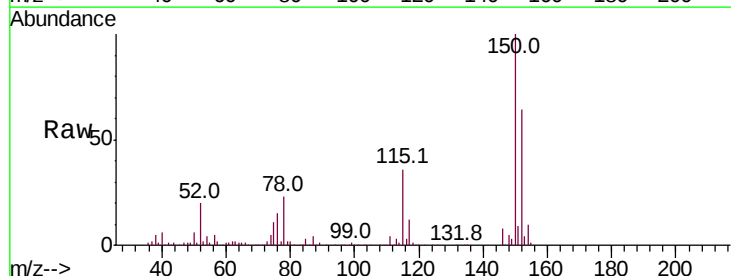
Instrument :
MSVOA_F
ClientSampleId :
VF0313SBS01

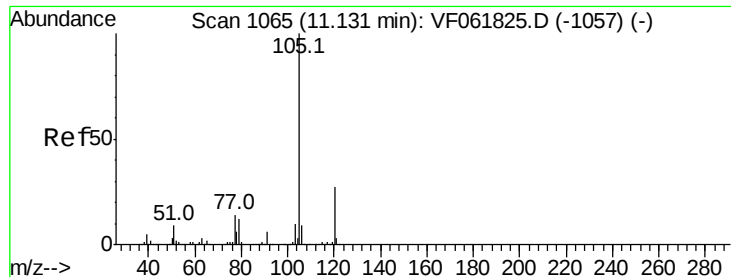
Tot Ion:173 Resp: 30738
Ion Ratio Lower Upper
173 100
175 48.1 24.5 73.5
254 11.9 8.0 12.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.53 min Scan# 1207
Delta R.T. -0.02 min
Lab File: VF061927.D
Acq: 13 Mar 2019 15:00

Tgt Ion:152 Resp: 197635
Ion Ratio Lower Upper
152 100
115 56.3 27.7 83.1
150 155.5 0.0 304.2





#73

Isopropylbenzene

Concen: 24.014 ug/l

RT: 11.11 min Scan# 1063

Delta R.T. -0.02 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

Instrument :

MSVOA_F

ClientSampleId :

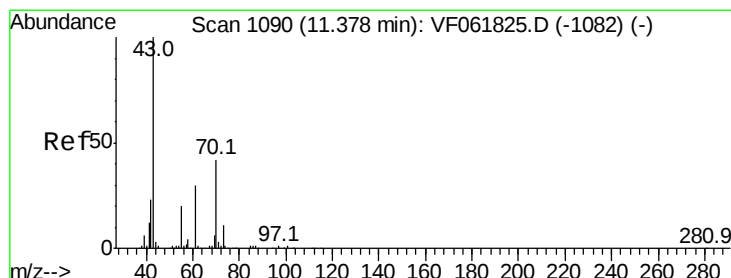
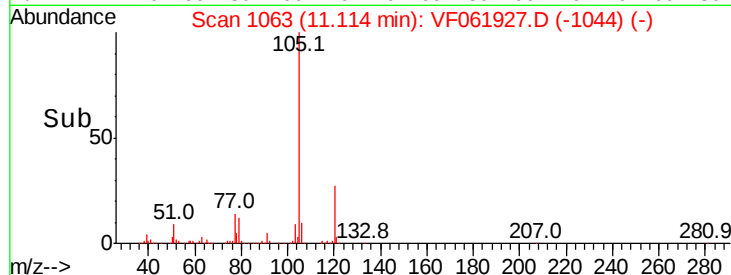
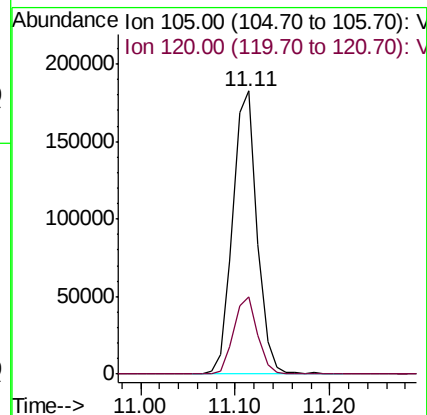
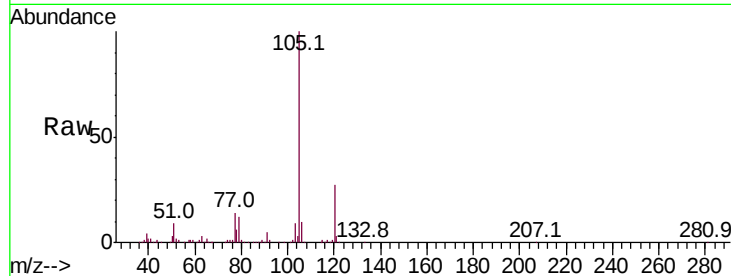
VF0313SBS01

Tot Ion:105 Resp: 326740

Ion Ratio Lower Upper

105 100

120 27.5 13.7 41.0



#74

N-ethyl acetate

Concen: 24.495 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.02 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

Tgt Ion: 43 Resp: 76726

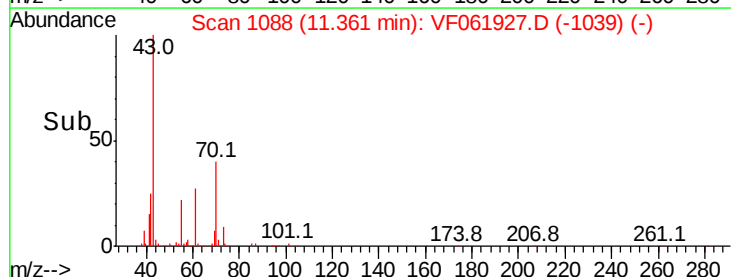
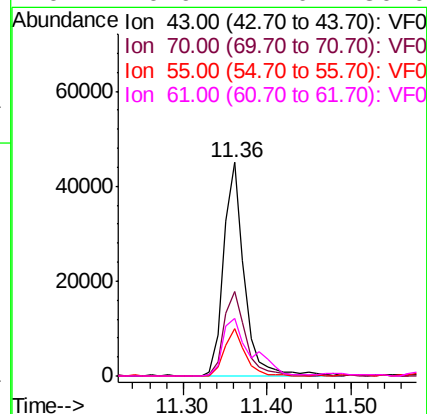
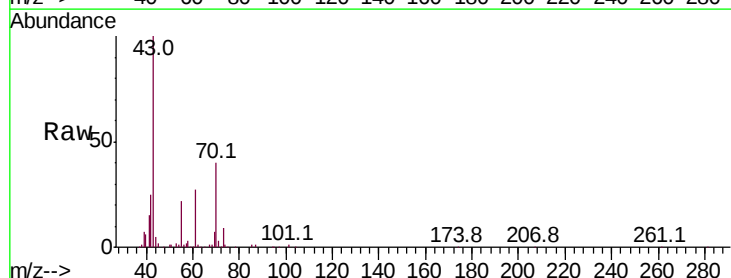
Ion Ratio Lower Upper

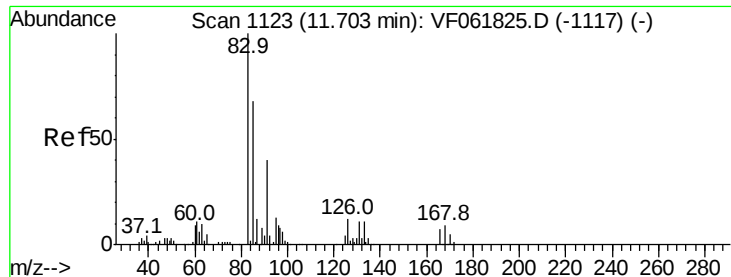
43 100

70 39.9 33.4 50.0

55 22.1 16.3 24.5

61 26.9 24.0 36.0





#75

1,1,2,2-Tetrachloroethane

Concen: 22.981 ug/l

RT: 11.69 min Scan# 1121

Delta R.T. -0.02 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

Instrument :

MSVOA_F

ClientSampleId :

VF0313SBS01

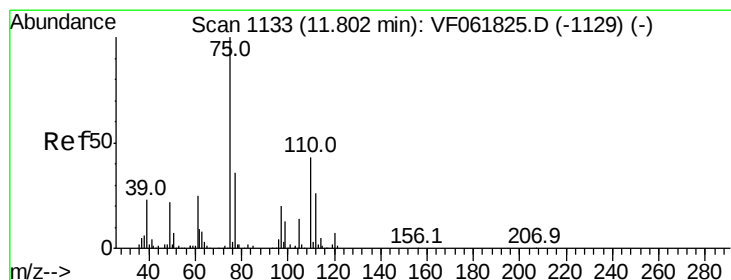
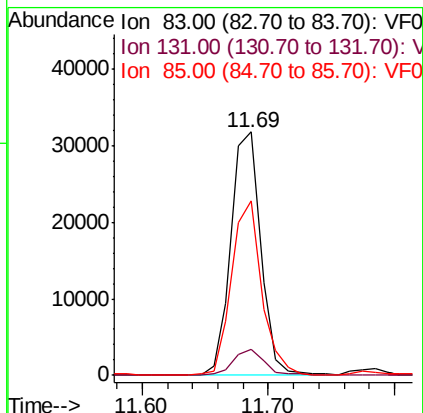
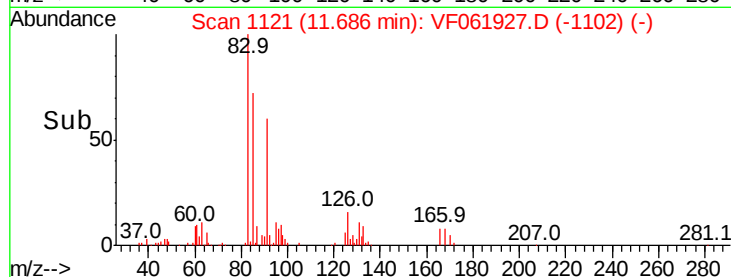
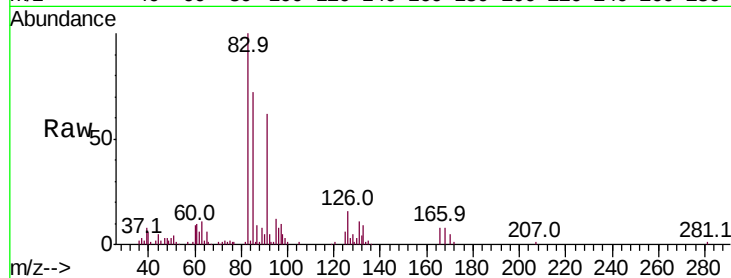
Tot Ion: 83 Resp: 51968

Ion Ratio Lower Upper

83 100

131 10.8 5.5 16.7

85 71.5 34.2 102.6



#76

1,2,3-Trichloropropane

Concen: 22.884 ug/l

RT: 11.78 min Scan# 1131

Delta R.T. -0.02 min

Lab File: VF061927.D

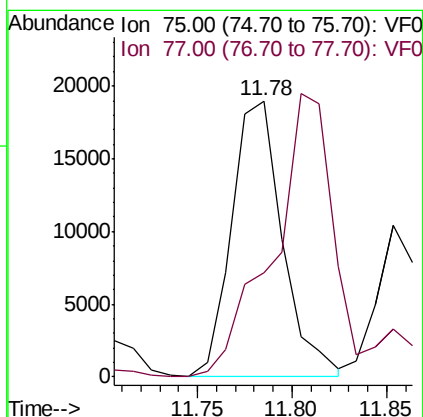
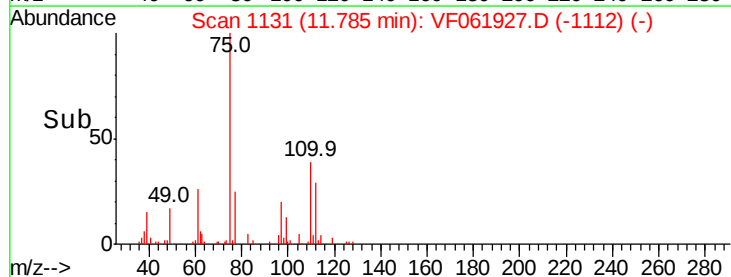
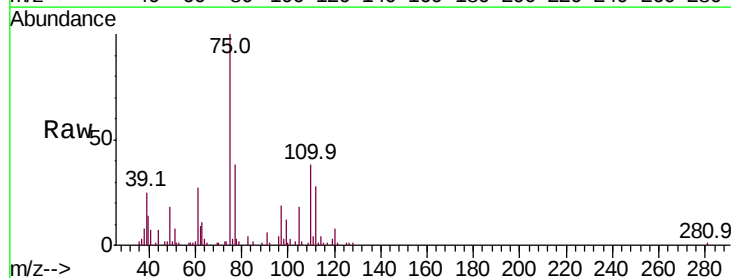
Acq: 13 Mar 2019 15:00

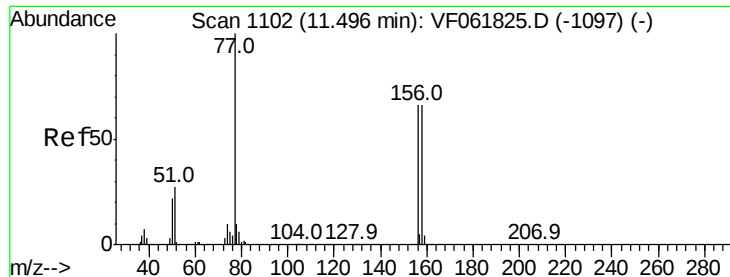
Tgt Ion: 75 Resp: 35319

Ion Ratio Lower Upper

75 100

77 37.7 18.1 54.4





#77

Bromobenzene

Concen: 22.248 ug/l

RT: 11.48 min Scan# 1100

Delta R.T. -0.02 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

Instrument :

MSVOA_F

ClientSampleId :

VF0313SBS01

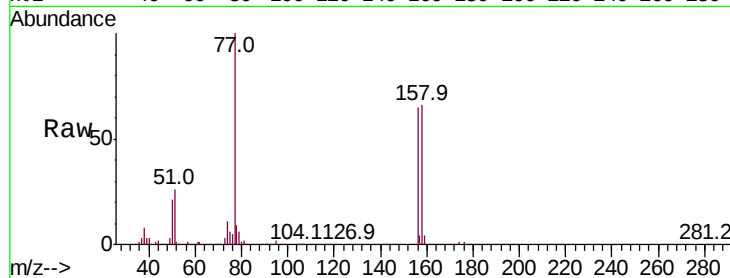
Tot Ion:156 Resp: 72853

Ion Ratio Lower Upper

156 100

77 154.2 75.7 227.1

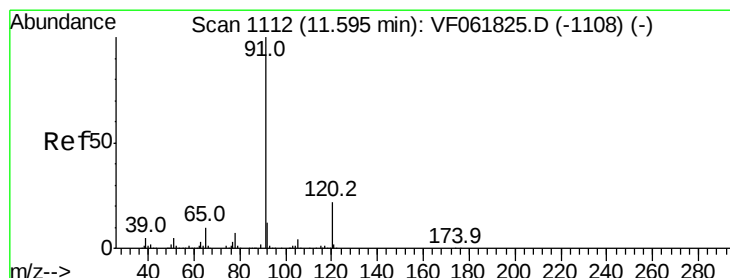
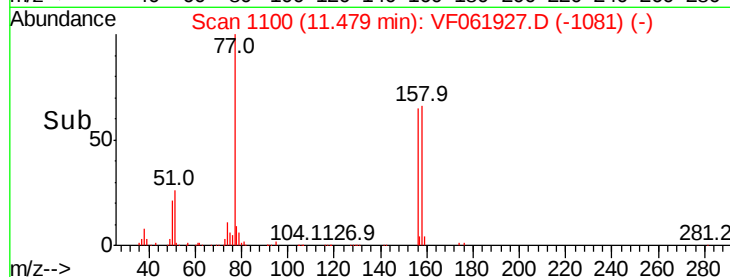
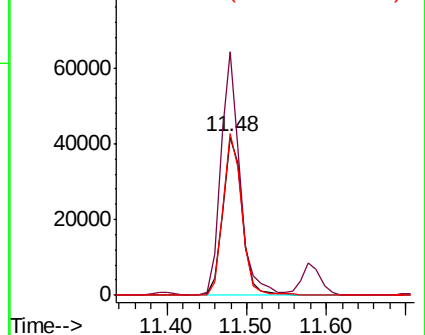
158 102.4 50.0 150.1



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 23.733 ug/l

RT: 11.58 min Scan# 1110

Delta R.T. -0.02 min

Lab File: VF061927.D

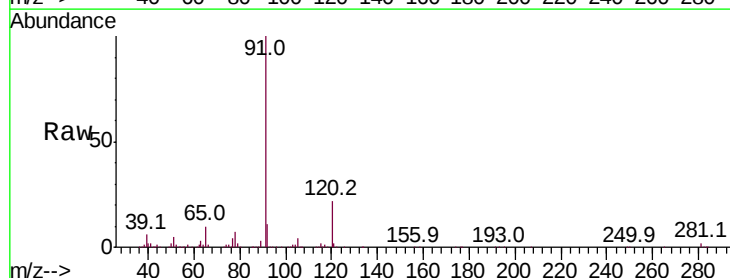
Acq: 13 Mar 2019 15:00

Tgt Ion: 91 Resp: 364663

Ion Ratio Lower Upper

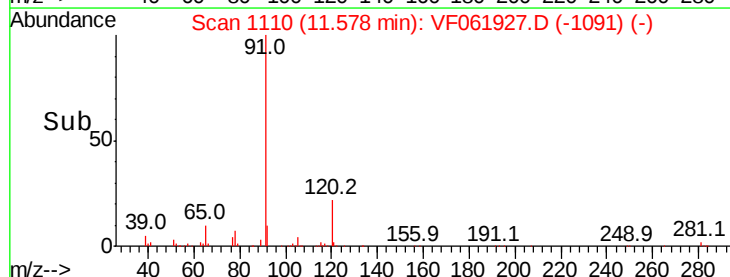
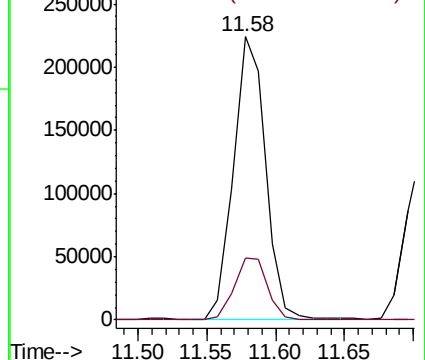
91 100

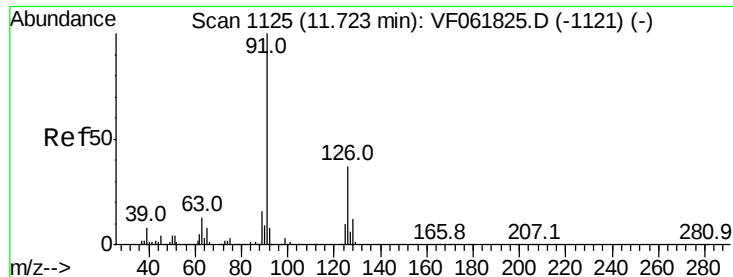
120 21.9 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 23.345 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. -0.02 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

Instrument :

MSVOA_F

ClientSampleId :

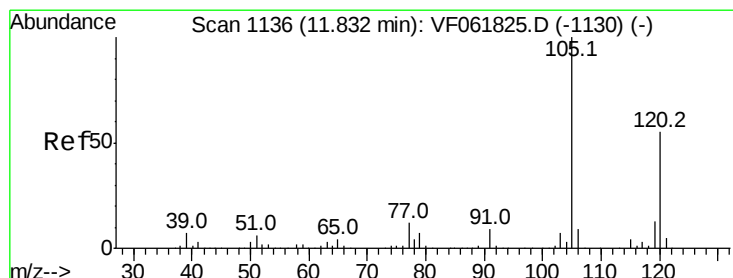
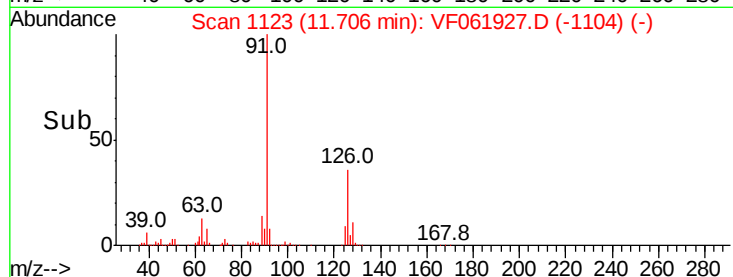
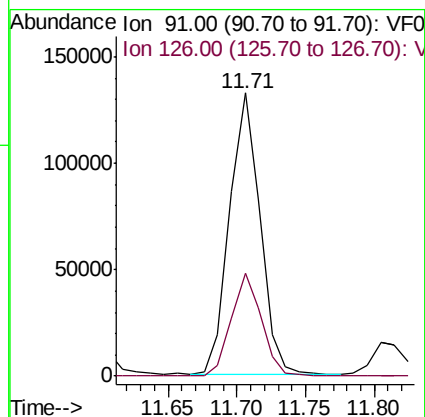
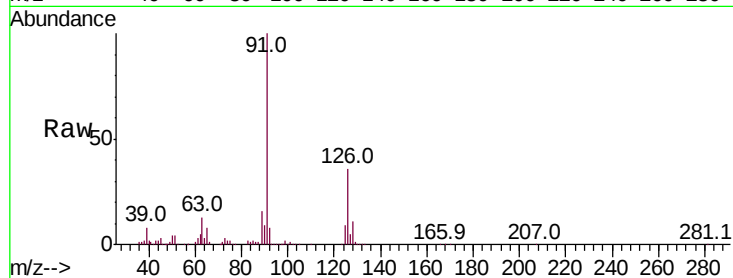
VF0313SBS01

Tot Ion: 91 Resp: 205079

Ion Ratio Lower Upper

91 100

126 36.4 18.1 54.4



#80

1,3,5-Trimethylbenzene

Concen: 24.190 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. -0.02 min

Lab File: VF061927.D

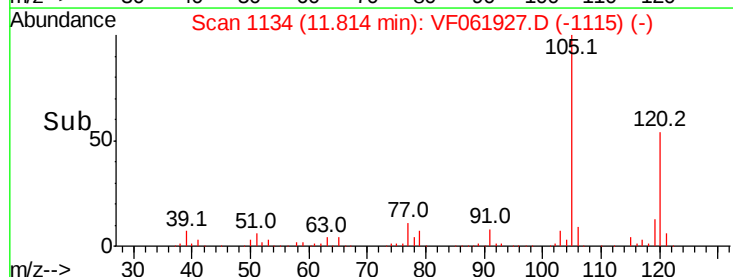
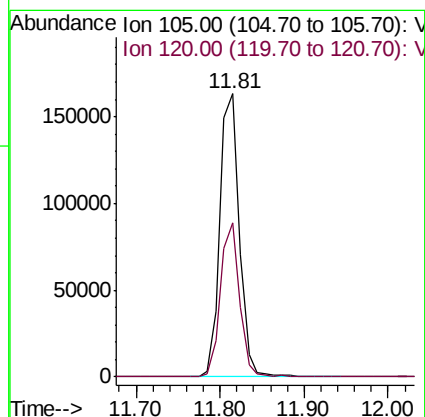
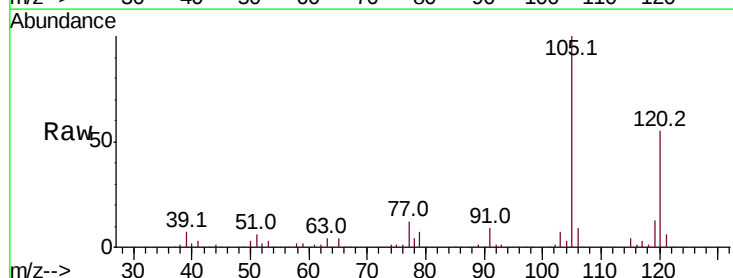
Acq: 13 Mar 2019 15:00

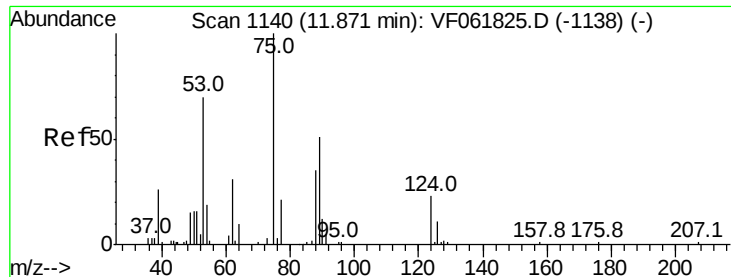
Tgt Ion:105 Resp: 264251

Ion Ratio Lower Upper

105 100

120 54.5 27.4 82.2





#81

trans-1,4-Dichloro-2-butene

Concen: 22.834 ug/l m

RT: 11.85 min Scan# 1138

Delta R.T. -0.02 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

Instrument :

MSVOA_F

ClientSampleId :

VF0313SBS01

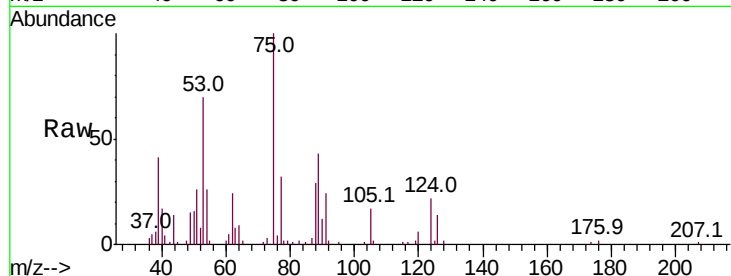
Tot Ion: 75 Resp: 16115

Ion Ratio Lower Upper

75 100

53 69.7 58.6 88.0

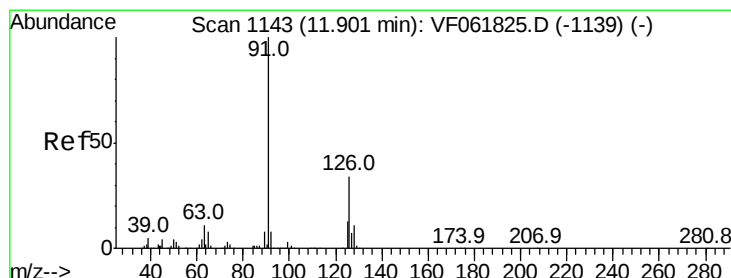
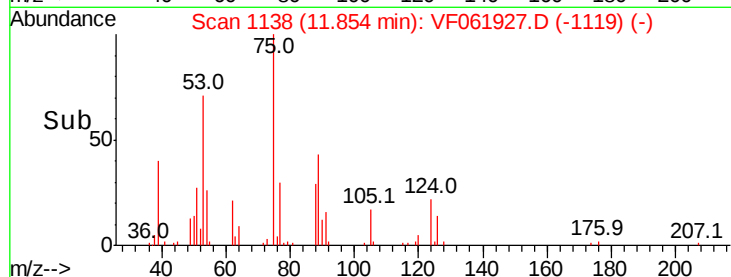
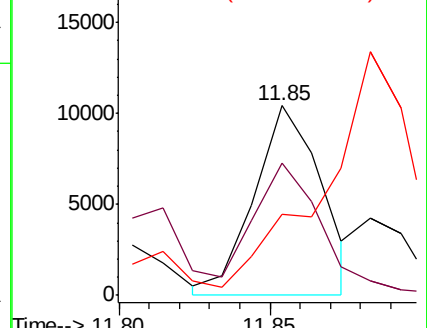
89 42.9 41.4 62.0



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 22.252 ug/l

RT: 11.88 min Scan# 1141

Delta R.T. -0.02 min

Lab File: VF061927.D

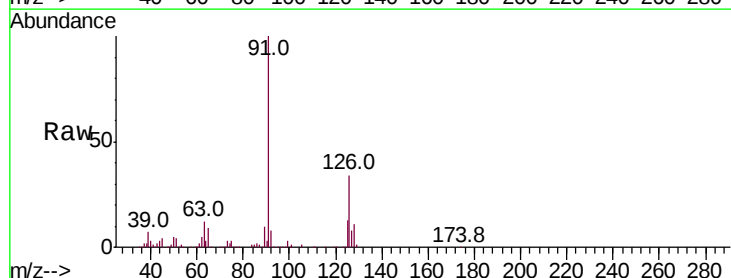
Acq: 13 Mar 2019 15:00

Tgt Ion: 91 Resp: 199939

Ion Ratio Lower Upper

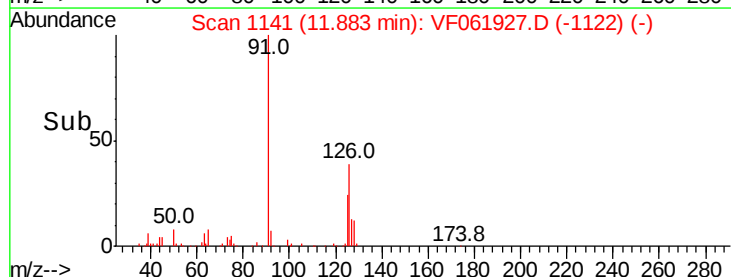
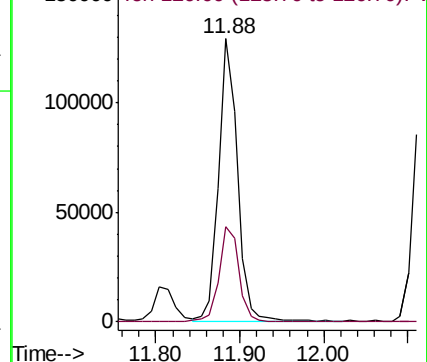
91 100

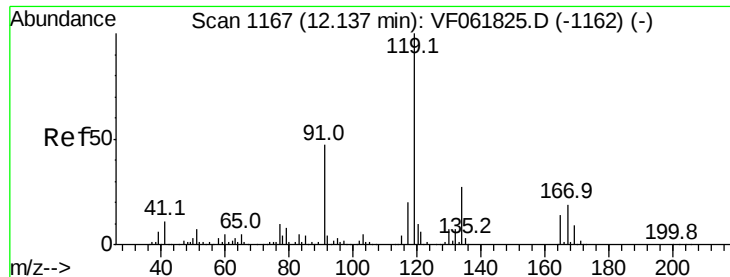
126 33.7 17.0 50.9



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

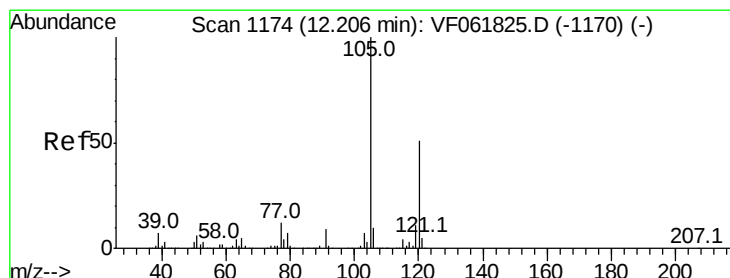
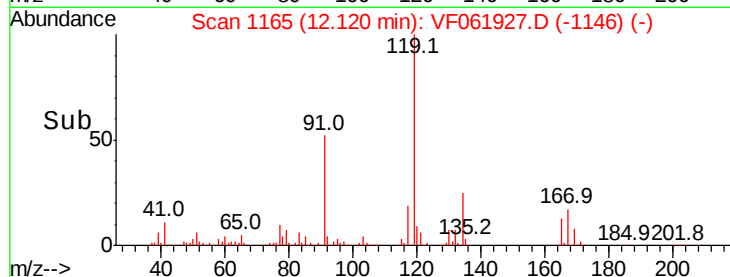
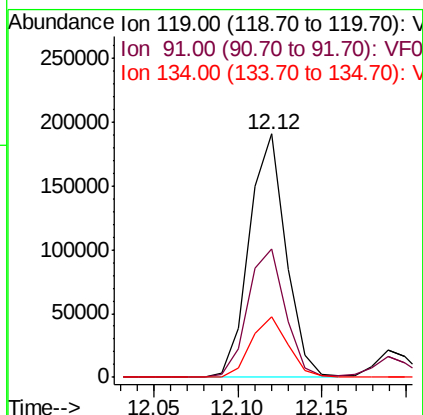
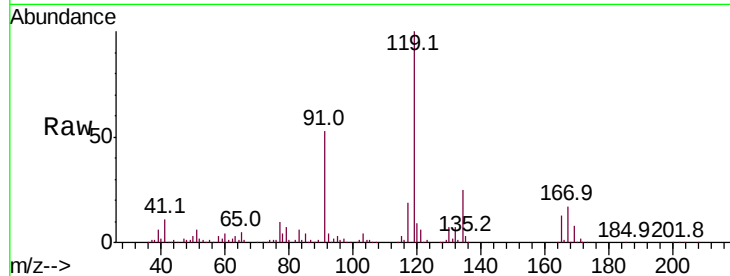




#83
tert-Butylbenzene
Concen: 24.948 ug/l
RT: 12.12 min Scan# 1165
Delta R.T. -0.02 min
Lab File: VF061927.D
Acq: 13 Mar 2019 15:00

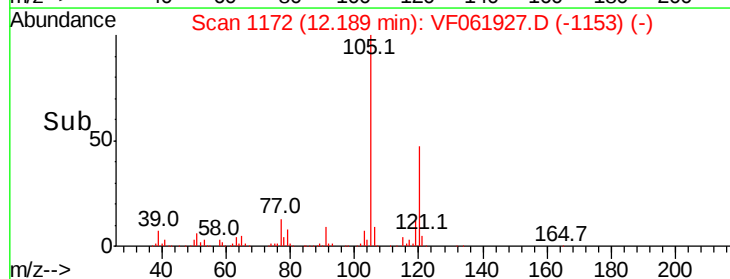
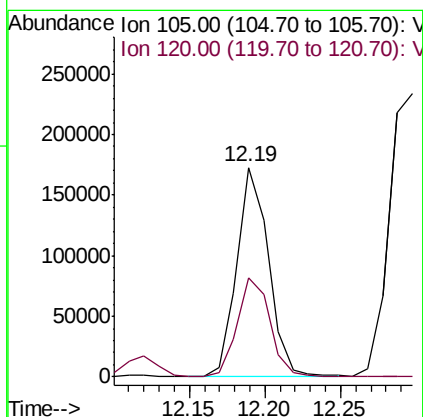
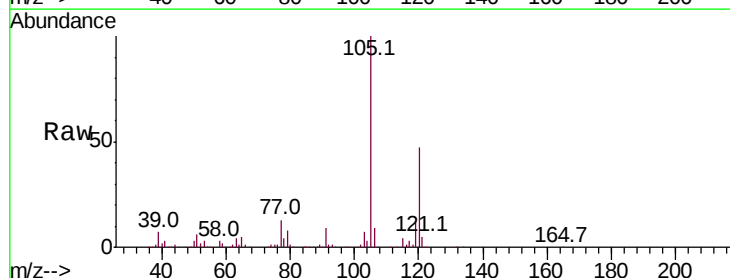
Instrument :
MSVOA_F
ClientSampleId :
VF0313SBS01

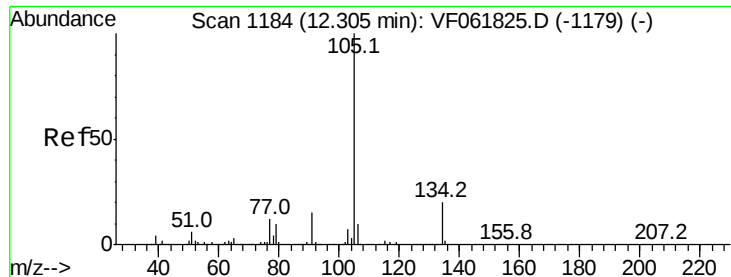
Tot Ion:119 Resp: 289384
Ion Ratio Lower Upper
119 100
91 52.8 23.5 70.5
134 24.8 13.3 39.8



#84
1,2,4-Trimethylbenzene
Concen: 23.711 ug/l
RT: 12.19 min Scan# 1172
Delta R.T. -0.02 min
Lab File: VF061927.D
Acq: 13 Mar 2019 15:00

Tgt Ion:105 Resp: 253923
Ion Ratio Lower Upper
105 100
120 47.3 25.8 77.4





#85

sec-Butylbenzene

Concen: 24.567 ug/l

RT: 12.30 min Scan# 1183

Delta R.T. -0.01 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

Instrument :

MSVOA_F

ClientSampleId :

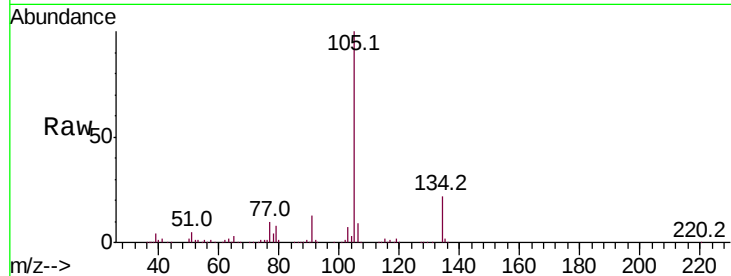
VF0313SBS01

Tot Ion:105 Resp: 370840

Ion Ratio Lower Upper

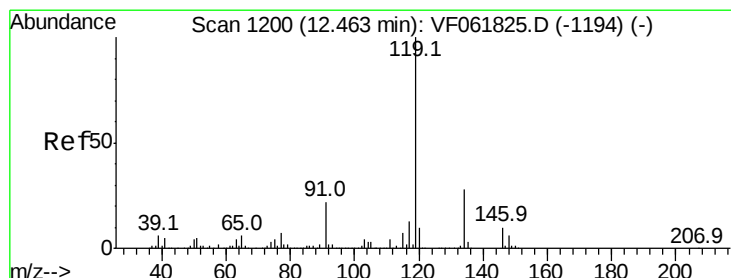
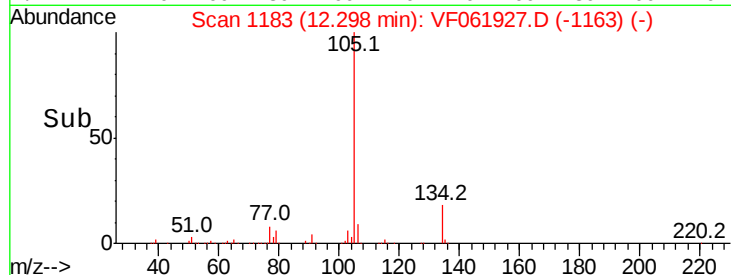
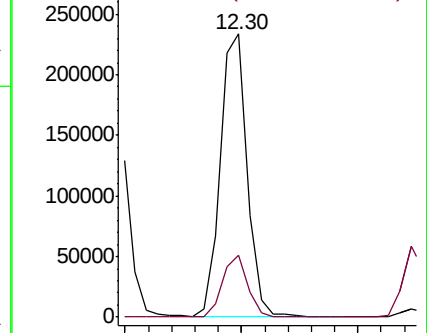
105 100

134 21.7 9.8 29.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 23.909 ug/l

RT: 12.45 min Scan# 1198

Delta R.T. -0.02 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

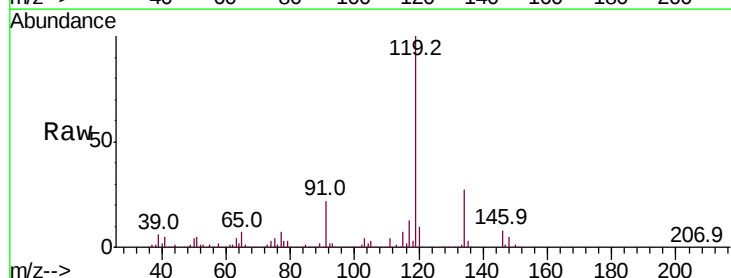
Tgt Ion:119 Resp: 306772

Ion Ratio Lower Upper

119 100

134 26.6 14.0 42.0

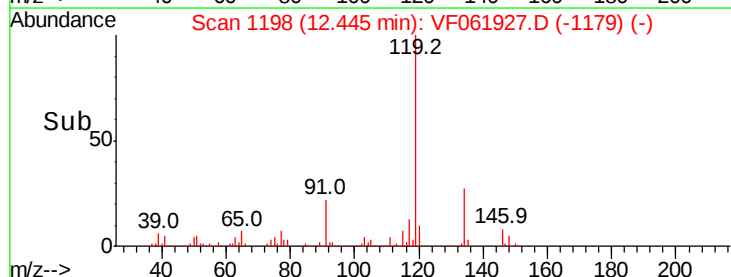
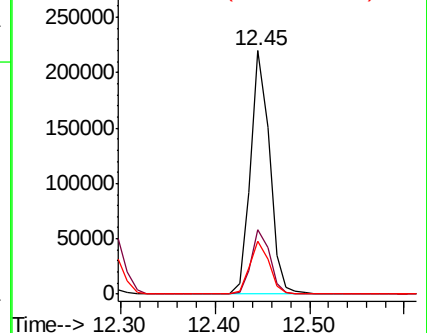
91 21.8 11.1 33.3

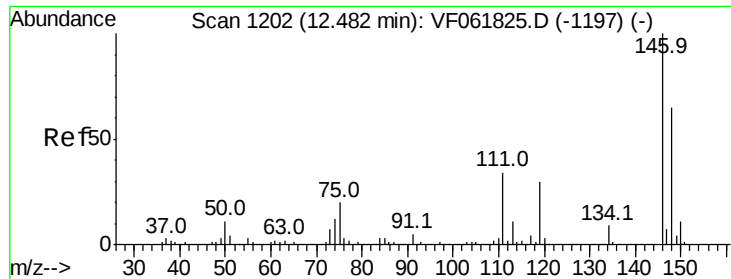


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 23.507 ug/l

RT: 12.47 min Scan# 1200

Delta R.T. -0.02 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

Instrument :

MSVOA_F

ClientSampleId :

VF0313SBS01

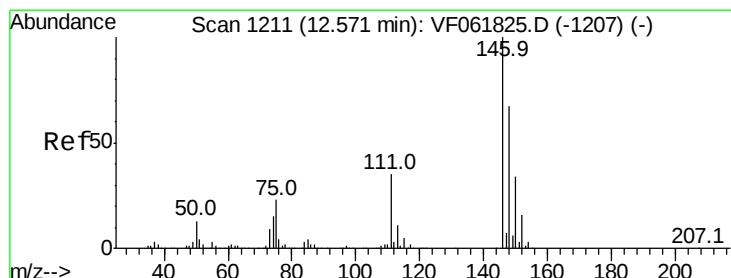
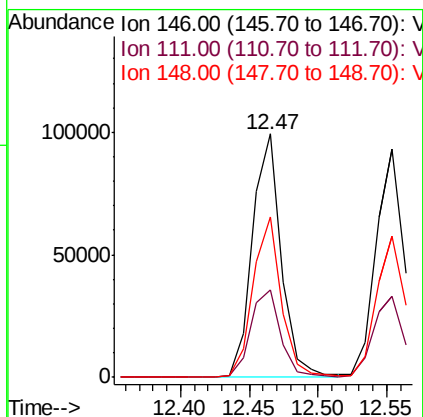
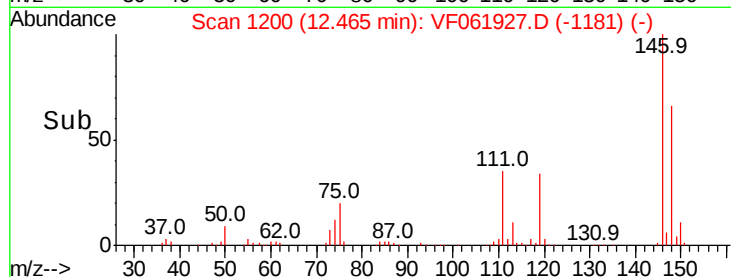
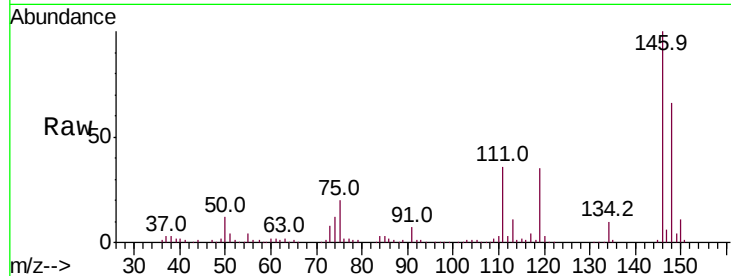
Tot Ion:146 Resp: 146161

Ion Ratio Lower Upper

146 100

111 35.7 17.0 51.0

148 65.9 32.5 97.5



#88

1,4-Dichlorobenzene

Concen: 23.304 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. -0.02 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

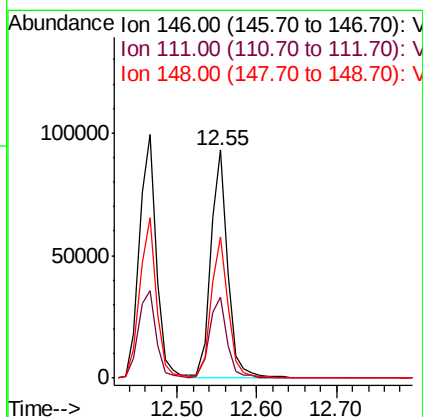
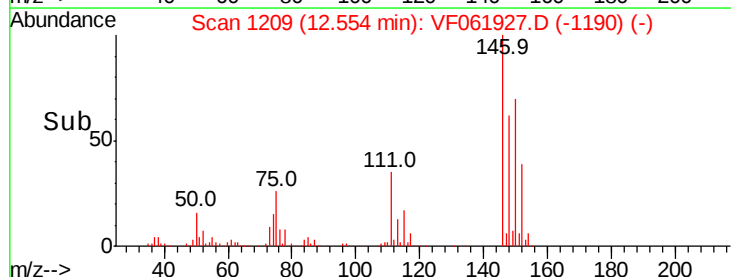
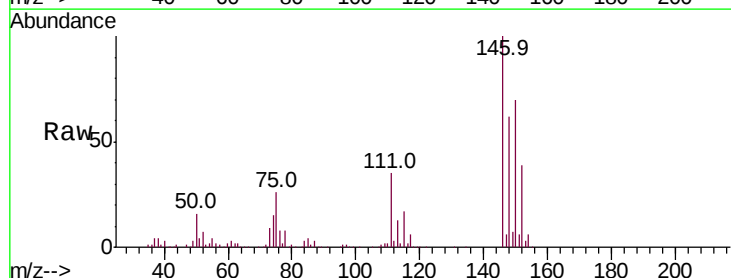
Tgt Ion:146 Resp: 139774

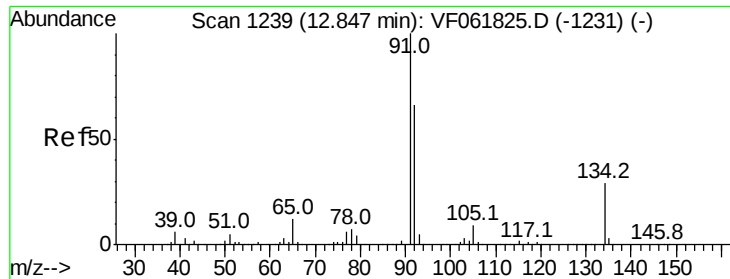
Ion Ratio Lower Upper

146 100

111 35.4 17.6 52.9

148 62.2 33.5 100.4

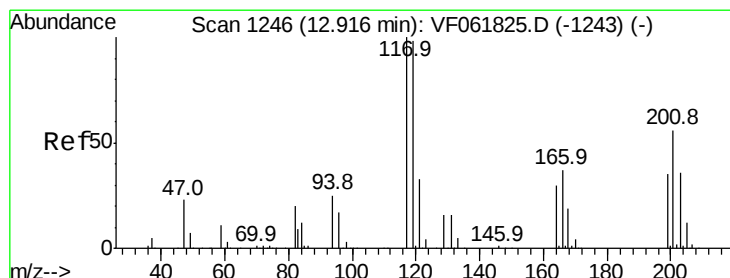
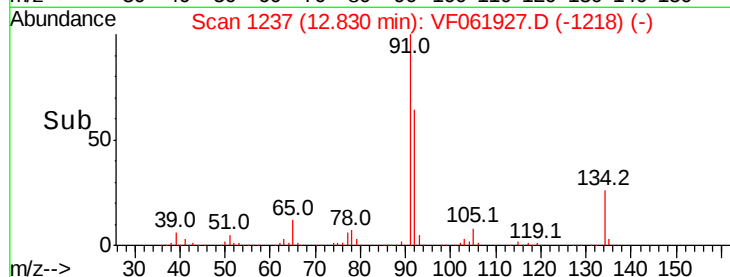
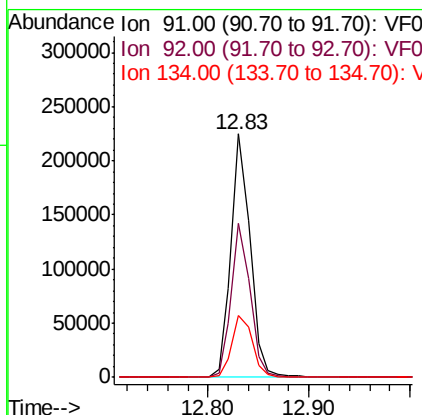
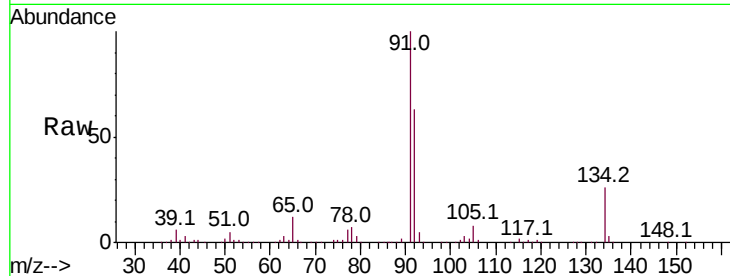




#89
n-Butylbenzene
Concen: 24.236 ug/l
RT: 12.83 min Scan# 1237
Delta R.T. -0.02 min
Lab File: VF061927.D
Acq: 13 Mar 2019 15:00

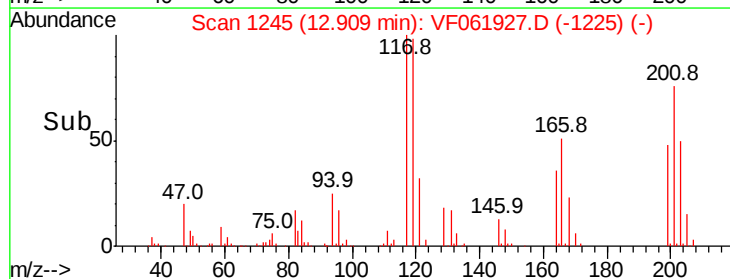
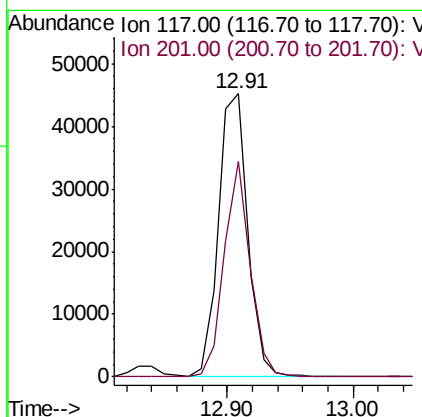
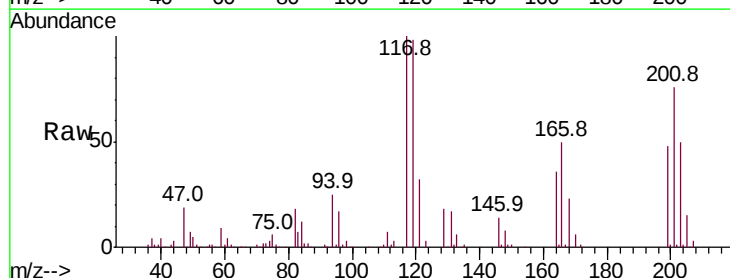
Instrument :
MSVOA_F
ClientSampleId :
VF0313SBS01

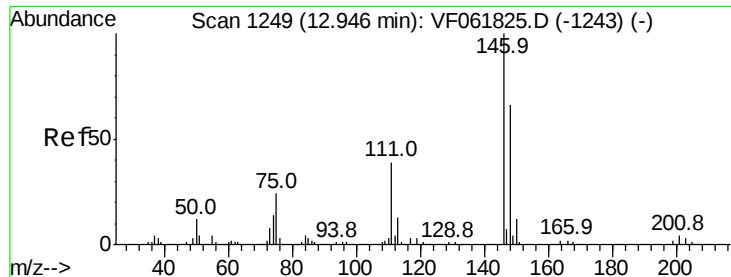
Tot Ion: 91 Resp: 297189
Ion Ratio Lower Upper
91 100
92 63.5 32.9 98.6
134 25.7 14.5 43.6



#90
Hexachloroethane
Concen: 23.566 ug/l
RT: 12.91 min Scan# 1245
Delta R.T. -0.01 min
Lab File: VF061927.D
Acq: 13 Mar 2019 15:00

Tgt Ion: 117 Resp: 72781
Ion Ratio Lower Upper
117 100
201 75.9 27.8 83.4

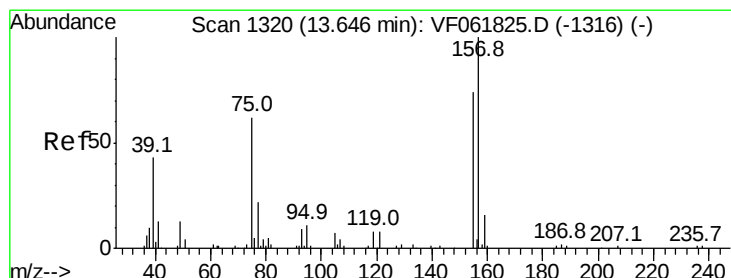
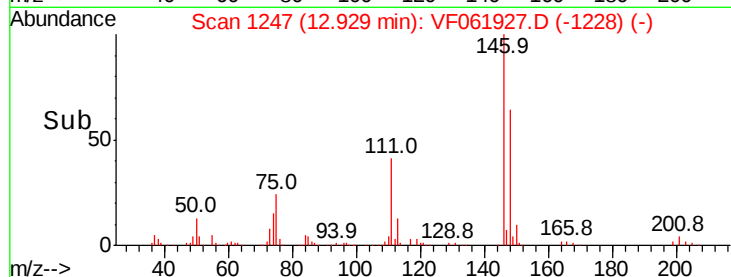
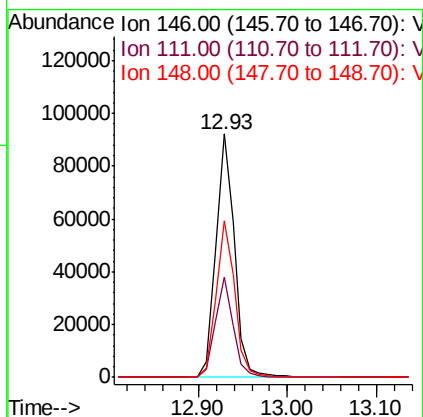
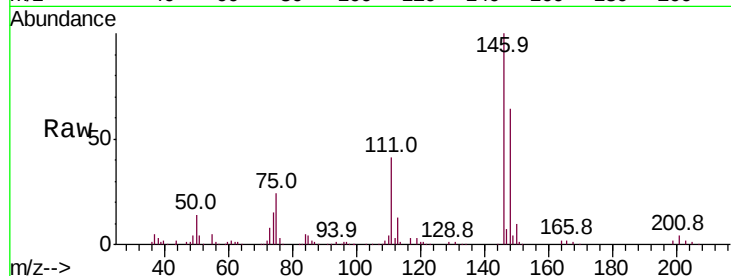




#91
 1,2-Dichlorobenzene
 Concen: 22.773 ug/l
 RT: 12.93 min Scan# 1247
 Delta R.T. -0.02 min
 Lab File: VF061927.D
 Acq: 13 Mar 2019 15:00

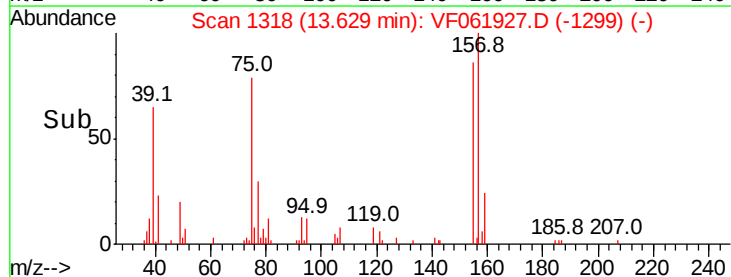
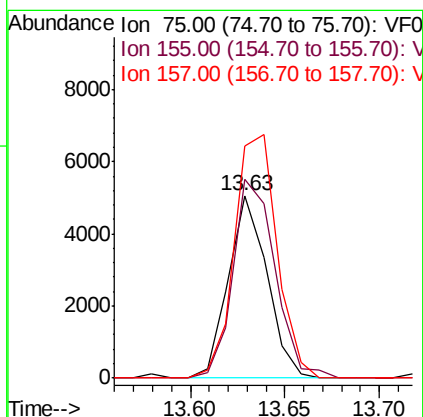
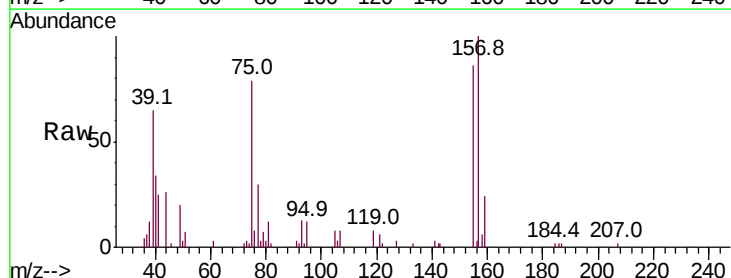
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0313SBS01

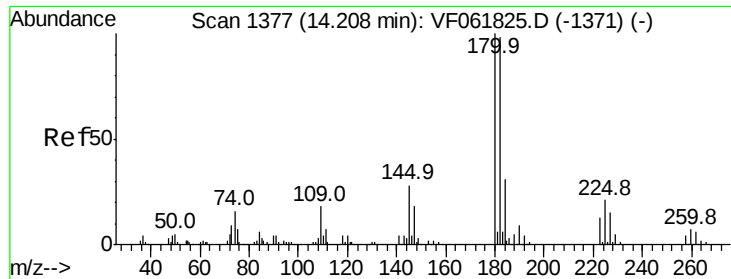
Tot Ion:146 Resp: 134154
 Ion Ratio Lower Upper
 146 100
 111 41.1 19.4 58.4
 148 64.3 33.0 98.9



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.622 ug/l
 RT: 13.63 min Scan# 1318
 Delta R.T. -0.02 min
 Lab File: VF061927.D
 Acq: 13 Mar 2019 15:00

Tgt Ion: 75 Resp: 7158
 Ion Ratio Lower Upper
 75 100
 155 108.7 59.8 179.4
 157 126.8 81.2 243.4

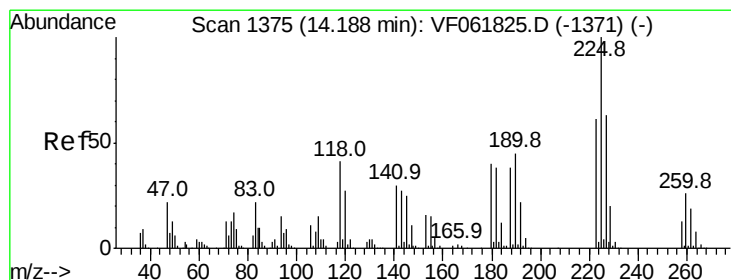
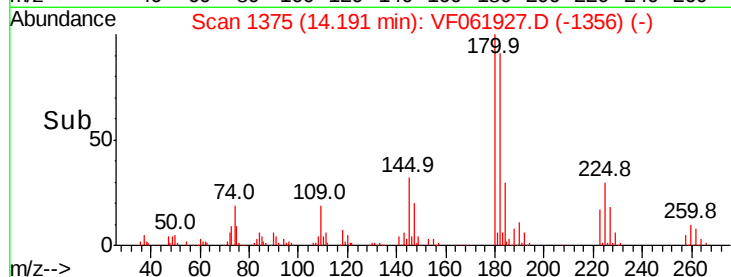
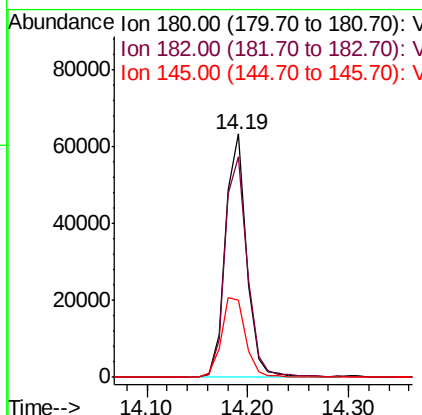
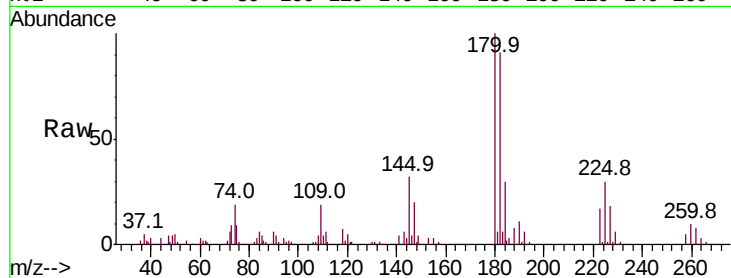




#93
 1,2,4-Trichlorobenzene
 Concen: 22.493 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.02 min
 Lab File: VF061927.D
 Acq: 13 Mar 2019 15:00

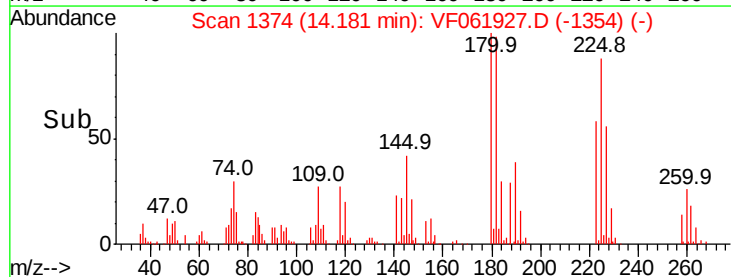
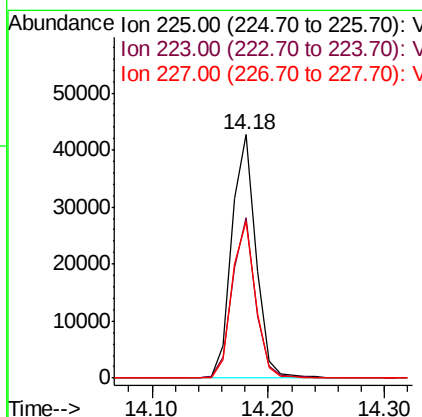
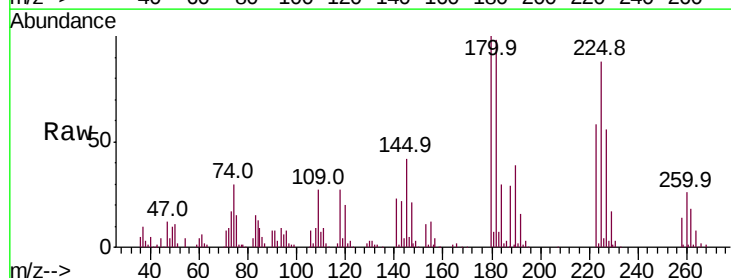
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0313SBS01

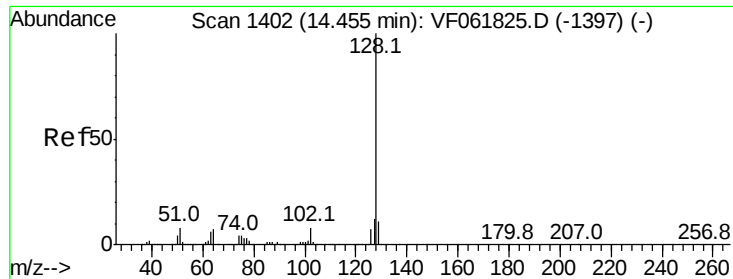
Tot Ion	Ratio	Lower	Upper
180	100		
182	90.8	49.0	147.2
145	31.8	14.1	42.4



#94
 Hexachlorobutadiene
 Concen: 21.540 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.01 min
 Lab File: VF061927.D
 Acq: 13 Mar 2019 15:00

Tgt Ion	Ratio	Lower	Upper
225	100		
223	65.8	30.3	90.9
227	64.3	31.3	93.8





#95

Naphthalene

Concen: 21.357 ug/l

RT: 14.45 min Scan# 1401

Delta R.T. -0.01 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

Instrument :

MSVOA_F

ClientSampleId :

VF0313SBS01

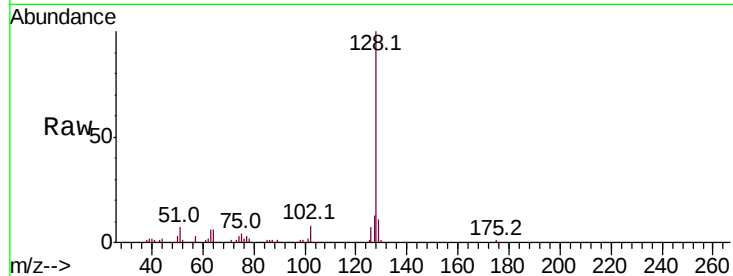
Tot Ion:128 Resp: 157095

Ion Ratio Lower Upper

128 100

127 12.6 9.3 13.9

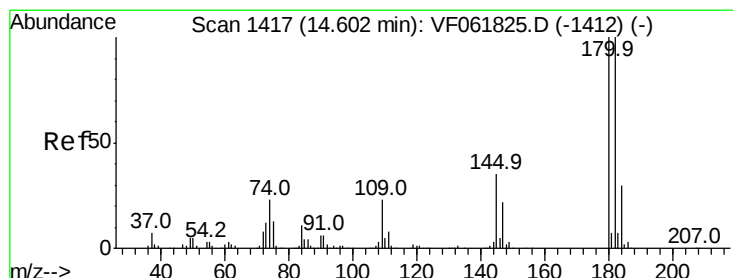
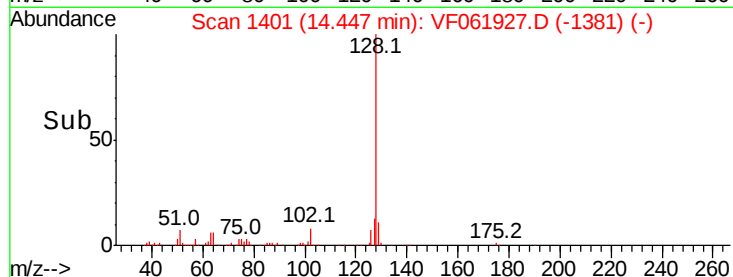
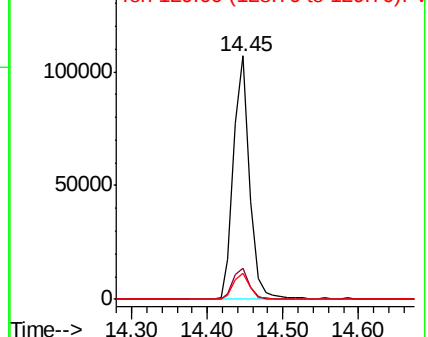
129 10.5 8.8 13.2



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: 22.905 ug/l

RT: 14.60 min Scan# 1416

Delta R.T. -0.01 min

Lab File: VF061927.D

Acq: 13 Mar 2019 15:00

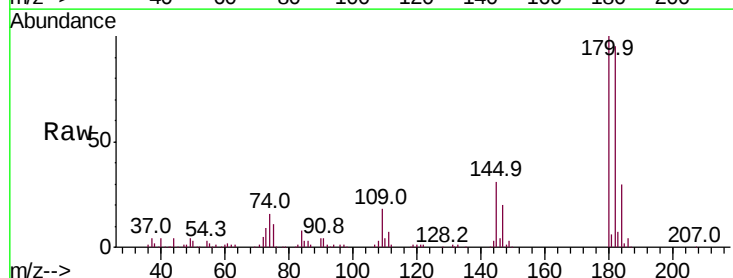
Tgt Ion:180 Resp: 87340

Ion Ratio Lower Upper

180 100

182 94.7 50.2 150.7

145 30.8 17.5 52.5



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

