

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051319\
 Data File : VF062564.D
 Acq On : 14 May 2019 3:07
 Operator : FY/SY
 Sample : VF0513SBS02
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0513SBS02

Quant Time: May 14 07:07:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 04:34:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.08	168	307058	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	5.80	114	403293	50.00	ug/l	0.03
63) Chlorobenzene-d5	9.93	117	342505	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.62	152	222618	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.06	65	138600	47.76	ug/l	0.04
Spiked Amount	50.000		Recovery	=	95.52%	
35) Dibromofluoromethane	4.33	113	151455	47.14	ug/l	0.03
Spiked Amount	50.000		Recovery	=	94.28%	
50) Toluene-d8	7.73	98	358851	46.14	ug/l	0.03
Spiked Amount	50.000		Recovery	=	92.28%	
62) 4-Bromofluorobenzene	11.51	95	162053	46.18	ug/l	0.02
Spiked Amount	50.000		Recovery	=	92.36%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.01	85	80156	22.556	ug/l	93
3) Chloromethane	1.15	50	50140	21.393	ug/l	98
4) Vinyl Chloride	1.20	62	48768	20.861	ug/l	92
5) Bromomethane	1.38	94	42970	23.004	ug/l	97
6) Chloroethane	1.45	64	25422	21.630	ug/l	97
7) Trichlorofluoromethane	1.56	101	112200	23.132	ug/l	99
8) Diethyl Ether	1.72	74	15337	20.897	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	1.92	101	63483	22.925	ug/l	94
10) Methyl Iodide	1.99	142	111289	24.387	ug/l	98
11) Tert butyl alcohol	2.71	59	14044	85.633	ug/l	95
12) 1,1-Dichloroethene	1.88	96	49686	21.105	ug/l	96
13) Acrolein	2.11	56	7902	62.079	ug/l #	75
14) Allyl chloride	2.21	41	73114	35.158	ug/l	95
15) Acrylonitrile	3.10	53	36524	117.567	ug/l	99
16) Acetone	2.36	43	52400	89.265	ug/l	97
17) Carbon Disulfide	1.91	76	112923	21.999	ug/l	96
18) Methyl Acetate	2.48	43	24643	21.216	ug/l	100
19) Methyl tert-butyl Ether	2.56	73	104103	21.422	ug/l	99
20) Methylene Chloride	2.34	84	29636	13.954	ug/l	86
21) trans-1,2-Dichloroethene	2.44	96	48811	21.762	ug/l	96
22) Diisopropyl ether	2.95	45	139104	21.402	ug/l	94
23) Vinyl Acetate	3.36	43	278220	96.044	ug/l	100
24) 1,1-Dichloroethane	3.03	63	89806	22.862	ug/l	99
25) 2-Butanone	4.55	43	70431	95.501	ug/l	98
26) 2,2-Dichloropropane	3.79	77	51231	23.354	ug/l	96
27) cis-1,2-Dichloroethene	3.67	96	61292	21.861	ug/l	95
28) Bromochloromethane	3.93	49	36576	20.531	ug/l #	100
29) Tetrahydrofuran	4.29	42	33344	98.376	ug/l	95
30) Chloroform	4.07	83	126767	23.887	ug/l	95
31) Cyclohexane	3.90	56	66308	21.148	ug/l	90
32) 1,1,1-Trichloroethane	4.31	97	105691	23.237	ug/l	98
36) 1,1-Dichloropropene	4.50	75	77267	22.303	ug/l	98
37) Ethyl Acetate	4.32	43	31529	20.234	ug/l #	89
38) Carbon Tetrachloride	4.20	117	119171	32.173	ug/l #	96

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 Quant Title : SW846 8260
 QLast Update : Tue May 07 04:34:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.66	83	77328	22.256	ug/l	97
40) Benzene	4.84	78	174686	22.898	ug/l	95
41) Methacrylonitrile	4.96	41	16163	19.457	ug/l	92
42) 1,2-Dichloroethane	5.15	62	76080	23.844	ug/l	99
43) Isopropyl Acetate	7.13	43	29128	18.485	ug/l #	99
44) Trichloroethene	5.71	130	66841	23.851	ug/l	97
45) 1,2-Dichloropropane	6.43	63	39178	22.673	ug/l	97
46) Dibromomethane	6.28	93	32399	22.614	ug/l	96
47) Bromodichloromethane	6.58	83	83309	23.258	ug/l	94
48) Methyl methacrylate	6.89	41	22379	20.096	ug/l	98
49) 1,4-Dioxane	6.88	88	3736	317.278	ug/l #	76
51) 4-Methyl-2-Pentanone	8.42	43	128555	107.663	ug/l	99
52) Toluene	7.80	92	105532	22.423	ug/l	96
53) t-1,3-Dichloropropene	8.44	75	57889	21.368	ug/l	97
54) cis-1,3-Dichloropropene	7.48	75	70587	22.387	ug/l	97
55) 1,1,2-Trichloroethane	8.66	97	33170	22.202	ug/l	96
56) Ethyl methacrylate	8.78	69	32772	20.780	ug/l	94
57) 1,3-Dichloropropane	9.01	76	54476	24.139	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.46	63	49825	105.084	ug/l	95
59) 2-Hexanone	9.64	43	90208	109.236	ug/l	95
60) Dibromochloromethane	8.87	129	53536	21.909	ug/l	96
61) 1,2-Dibromoethane	9.15	107	36132	20.577	ug/l	95
64) Tetrachloroethene	8.32	164	66524	23.925	ug/l	98
65) Chlorobenzene	9.95	112	132777	23.430	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.08	131	67139	23.485	ug/l	96
67) Ethyl Benzene	10.05	91	234476	23.629	ug/l	97
68) m/p-Xylenes	10.27	106	169952	46.418	ug/l	96
69) o-Xylene	10.84	106	99806	25.227	ug/l	96
70) Styrene	10.91	104	133666	22.543	ug/l	99
71) Bromoform	10.90	173	32690	20.872	ug/l #	99
73) Isopropylbenzene	11.23	105	294913	22.346	ug/l	99
74) N-amyl acetate	11.46	43	59981	21.170	ug/l	94
75) 1,1,2,2-Tetrachloroethane	11.78	83	45456	21.997	ug/l	100
76) 1,2,3-Trichloropropane	11.88	75	34919	22.149	ug/l #	100
77) Bromobenzene	11.60	156	76435	22.068	ug/l	98
78) n-propylbenzene	11.68	91	323679	23.036	ug/l	99
79) 2-Chlorotoluene	11.81	91	195409	22.365	ug/l	98
80) 1,3,5-Trimethylbenzene	11.91	105	263900	22.814	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.95	75	8065	13.609	ug/l #	78
82) 4-Chlorotoluene	11.98	91	187901	21.774	ug/l	100
83) tert-Butylbenzene	12.21	119	280855	23.102	ug/l	99
84) 1,2,4-Trimethylbenzene	12.28	105	258716	22.854	ug/l	98
85) sec-Butylbenzene	12.38	105	344714	23.296	ug/l	100
86) p-Isopropyltoluene	12.53	119	323021	23.496	ug/l	98
87) 1,3-Dichlorobenzene	12.55	146	149705	23.666	ug/l	100
88) 1,4-Dichlorobenzene	12.64	146	138006	22.604	ug/l	99
89) n-Butylbenzene	12.91	91	288307	23.571	ug/l	97
90) Hexachloroethane	12.99	117	74587	21.728	ug/l	95
91) 1,2-Dichlorobenzene	13.00	146	147022	24.012	ug/l	94
92) 1,2-Dibromo-3-Chloropropan	13.69	75	8619	18.618	ug/l	94

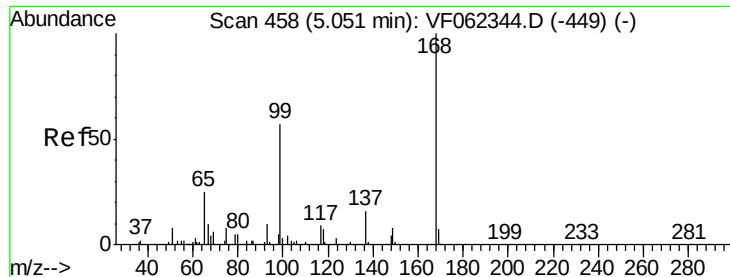
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF051319\
Data File : VF062564.D
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Quant Time: May 14 07:07:02 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
Quant Title : SW846 8260
QLast Update : Tue May 07 04:34:57 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.25	180	120499	21.941	ug/l	98
94) Hexachlorobutadiene	14.24	225	90972	22.224	ug/l	100
95) Naphthalene	14.50	128	178225	21.586	ug/l	98
96) 1,2,3-Trichlorobenzene	14.65	180	118226	22.220	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.08 min Scan# 461

Delta R.T. 0.03 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

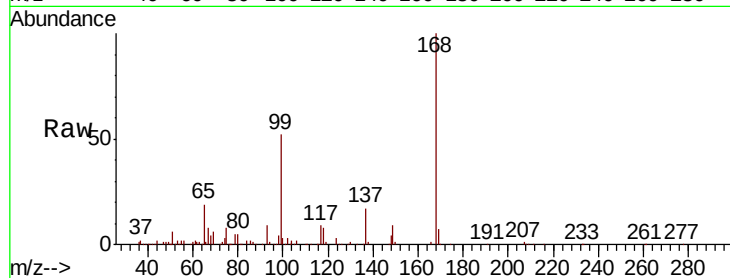
VF0513SBS02

Tot Ion:168 Resp: 307058

Ion Ratio Lower Upper

168 100

99 52.4 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.08

120000

100000

80000

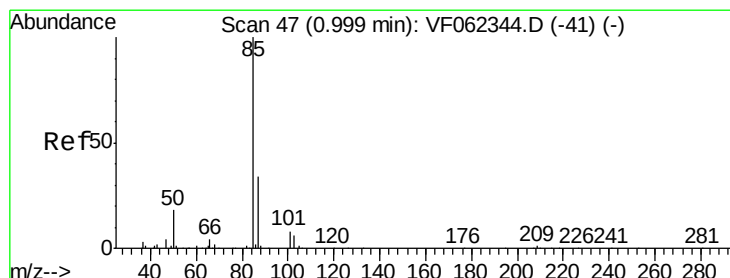
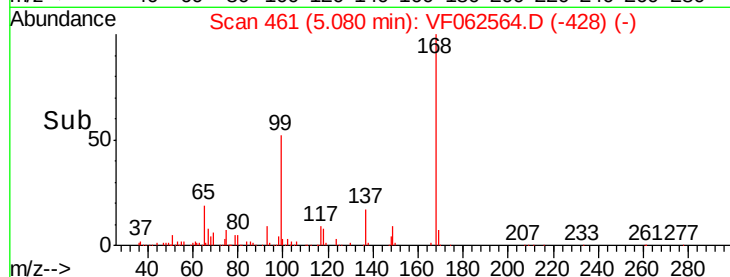
60000

40000

20000

0

Time--> 4.90 5.00 5.10 5.20 5.30



#2

Dichlorodifluoromethane

Concen: 22.556 ug/l

RT: 1.01 min Scan# 48

Delta R.T. 0.01 min

Lab File: VF062564.D

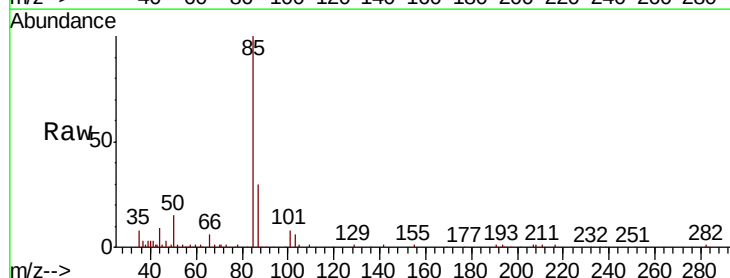
Acq: 14 May 2019 3:07

Tgt Ion: 85 Resp: 80156

Ion Ratio Lower Upper

85 100

87 29.9 16.8 50.4



Abundance Ion 84.90 (84.60 to 85.60): VF0

Ion 86.90 (86.60 to 87.60): VF0

1.01

30000

25000

20000

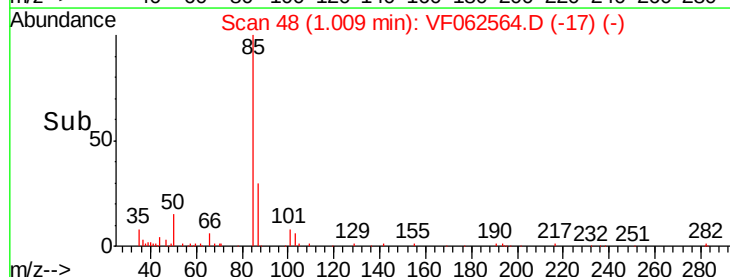
15000

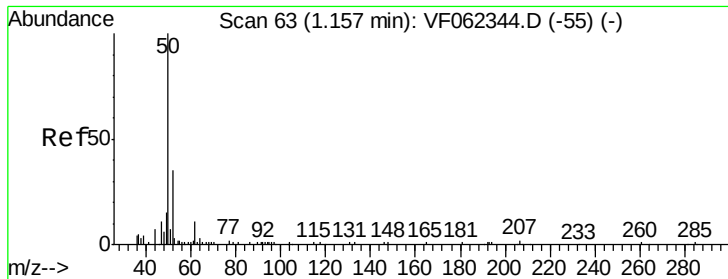
10000

5000

0

Time--> 0.80 0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 21.393 ug/l

RT: 1.15 min Scan# 62

Delta R.T. -0.01 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

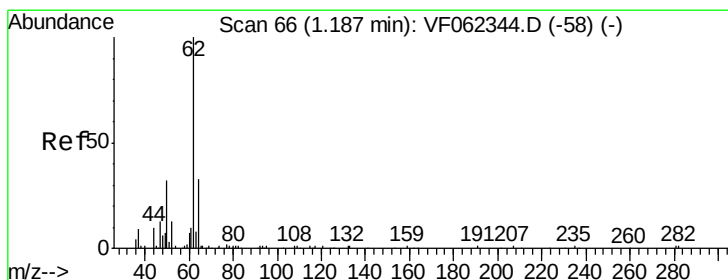
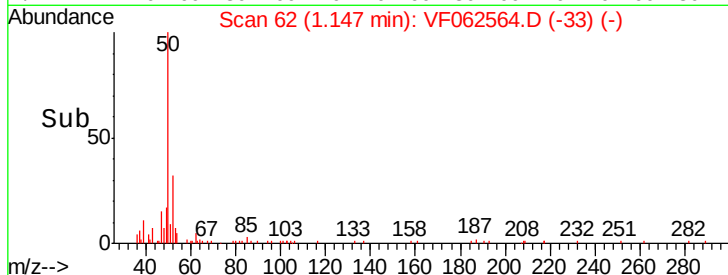
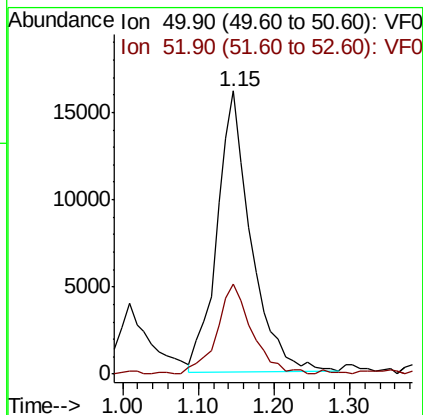
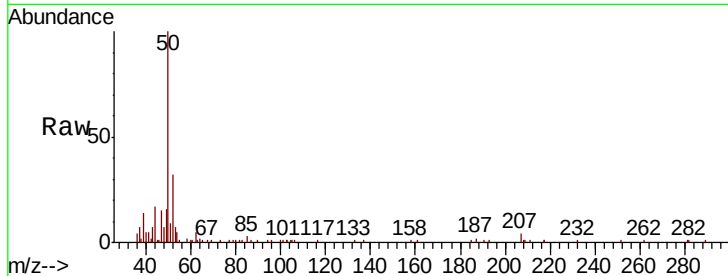
VF0513SBS02

Tot Ion: 50 Resp: 50140

Ion Ratio Lower Upper

50 100

52 31.3 26.1 39.1



#4

Vinyl Chloride

Concen: 20.861 ug/l

RT: 1.20 min Scan# 67

Delta R.T. 0.01 min

Lab File: VF062564.D

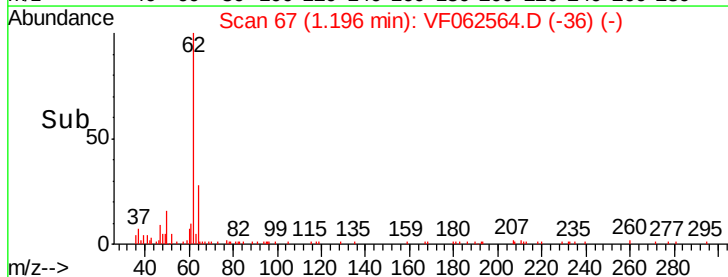
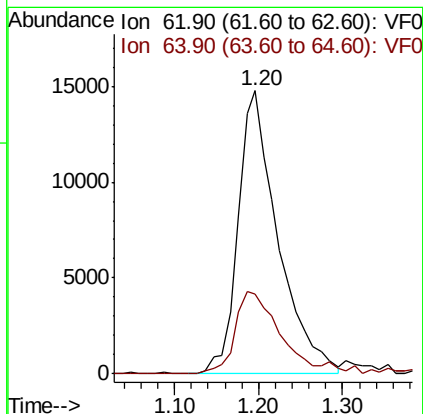
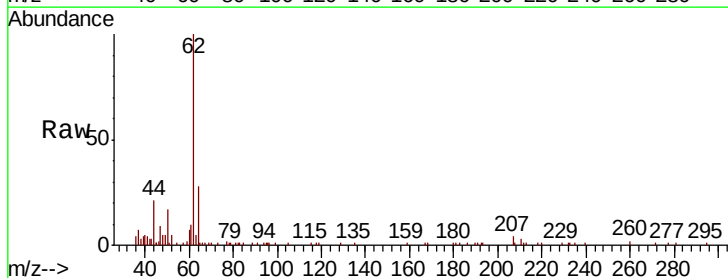
Acq: 14 May 2019 3:07

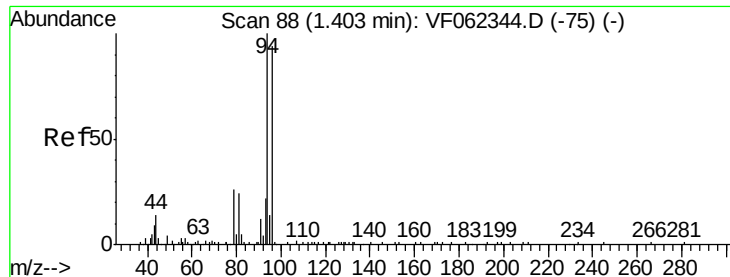
Tgt Ion: 62 Resp: 48768

Ion Ratio Lower Upper

62 100

64 28.1 26.1 39.1





#5

Bromomethane

Concen: 23.004 ug/l

RT: 1.38 min Scan# 86

Delta R.T. -0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

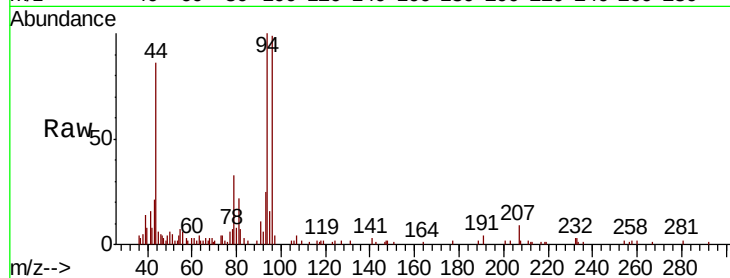
VF0513SBS02

Tot Ion: 94 Resp: 42970

Ion Ratio Lower Upper

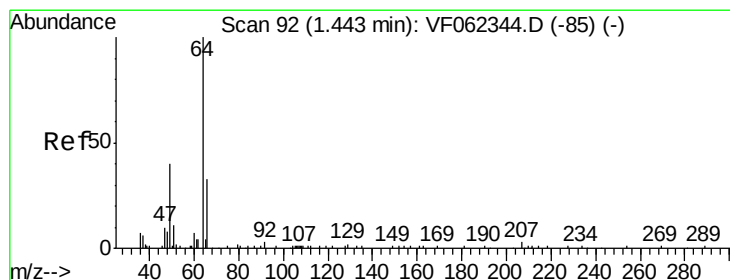
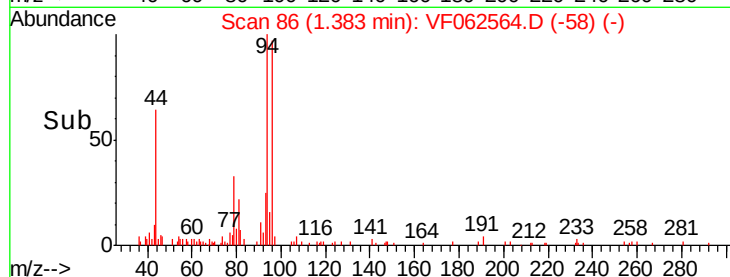
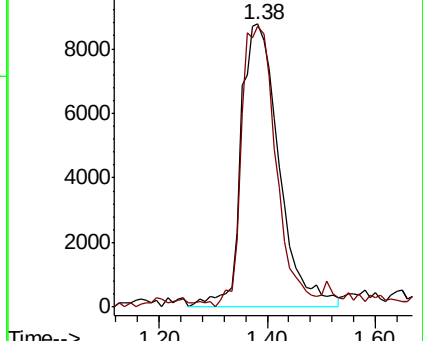
94 100

96 97.5 75.4 113.2



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0



#6

Chloroethane

Concen: 21.630 ug/l

RT: 1.45 min Scan# 93

Delta R.T. 0.01 min

Lab File: VF062564.D

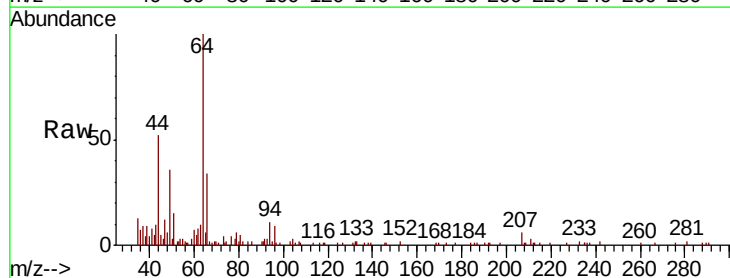
Acq: 14 May 2019 3:07

Tgt Ion: 64 Resp: 25422

Ion Ratio Lower Upper

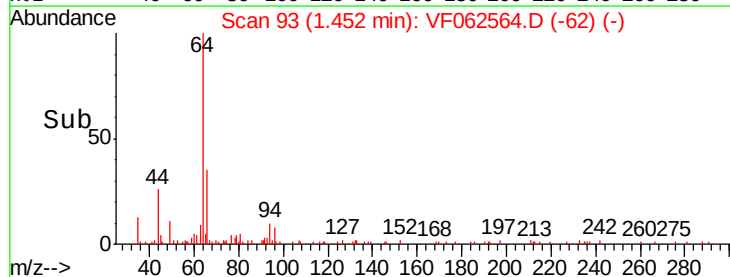
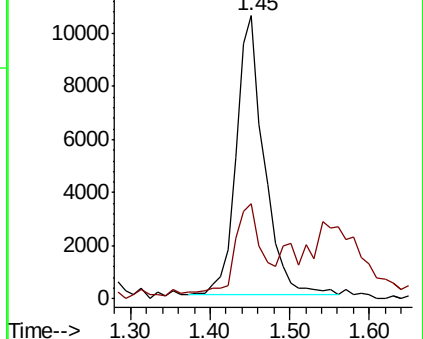
64 100

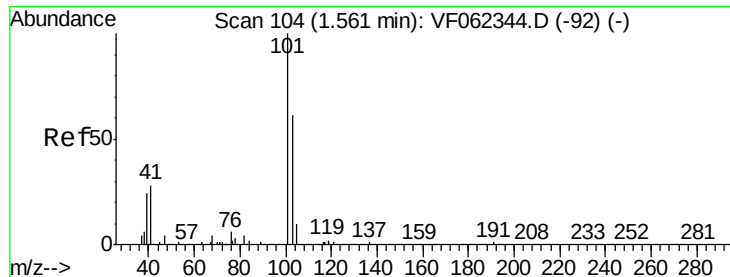
66 31.6 26.6 39.8



Abundance Ion 63.90 (63.60 to 64.60): VF0

Ion 65.90 (65.60 to 66.60): VF0



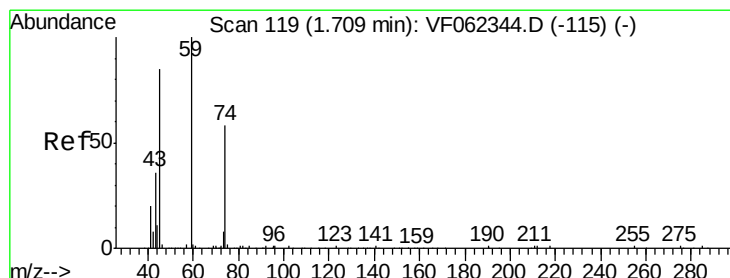
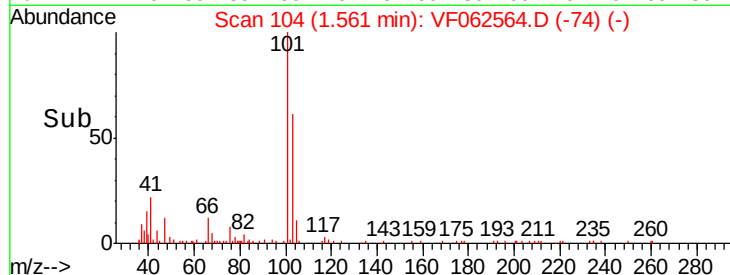
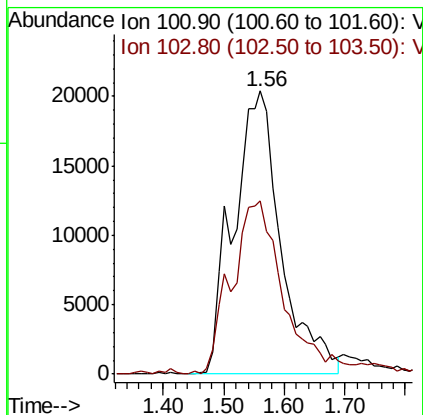
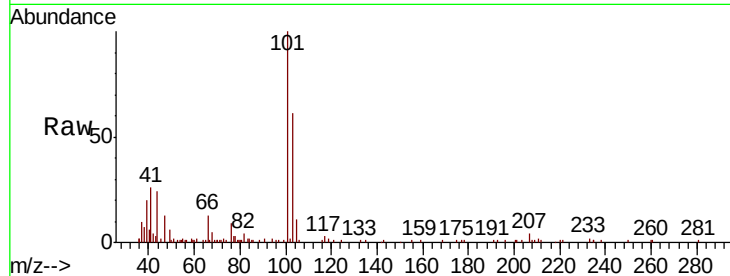


#7

Trichlorofluoromethane
 Concen: 23.132 ug/l
 RT: 1.56 min Scan# 104
 Delta R.T. -0.00 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0513SBSD02

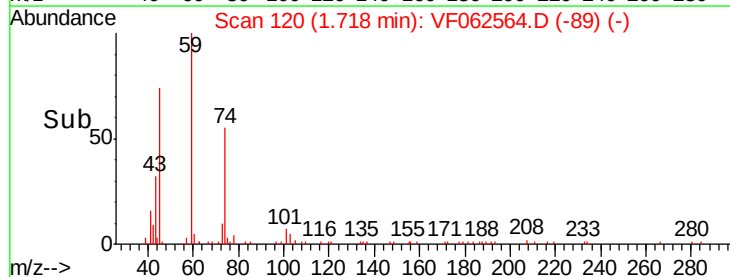
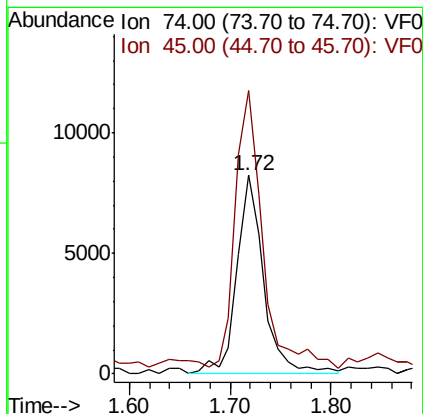
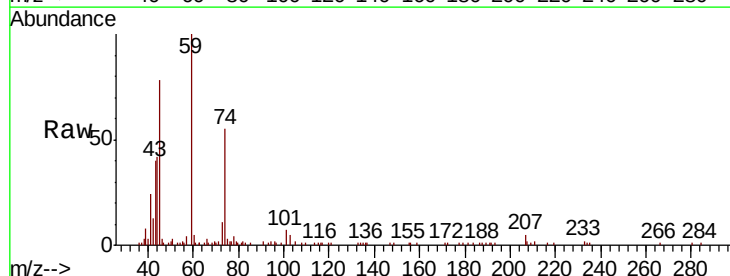
Tot Ion:101 Resp: 112200
 Ion Ratio Lower Upper
 101 100
 103 61.3 48.5 72.7

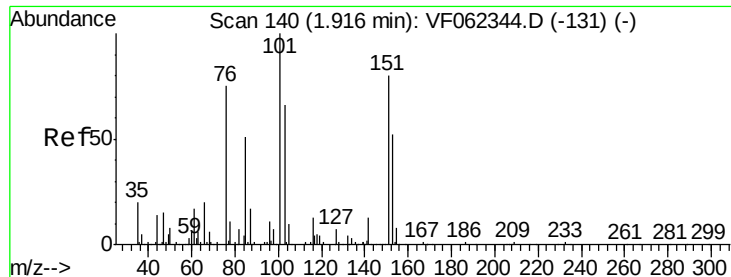


#8

Diethyl Ether
 Concen: 20.897 ug/l
 RT: 1.72 min Scan# 120
 Delta R.T. 0.01 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

Tgt Ion: 74 Resp: 15337
 Ion Ratio Lower Upper
 74 100
 45 140.9 73.9 221.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.925 ug/l

RT: 1.92 min Scan# 140

Delta R.T. -0.00 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

VF0513SBS02

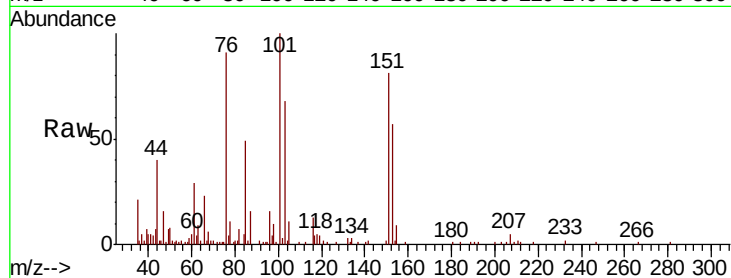
Tot Ion:101 Resp: 63483

Ion Ratio Lower Upper

101 100

85 50.0 39.5 59.3

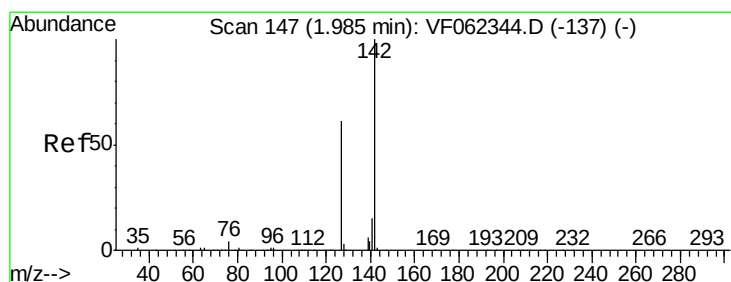
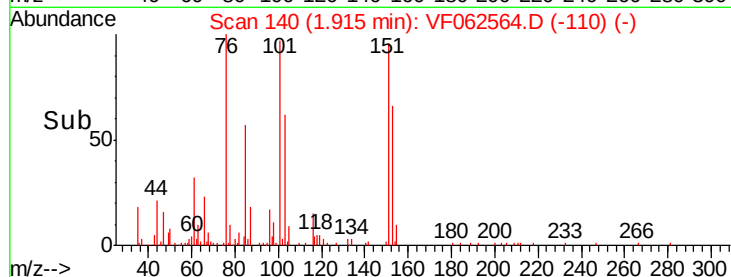
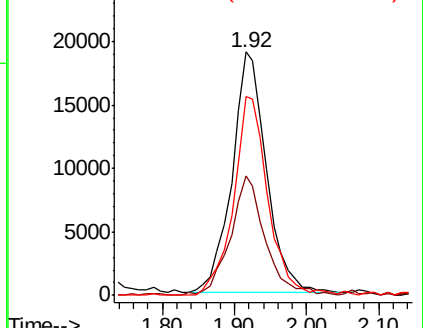
151 82.6 59.9 89.9



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VF0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 24.387 ug/l

RT: 1.99 min Scan# 148

Delta R.T. 0.01 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

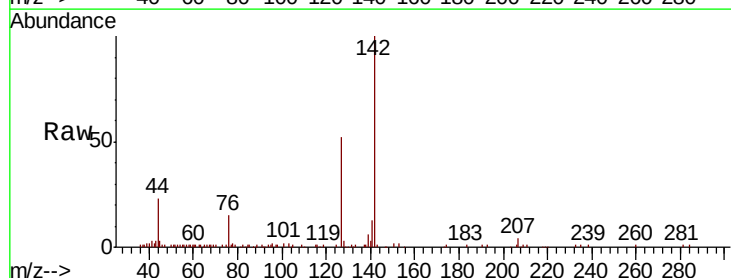
Tgt Ion:142 Resp: 111289

Ion Ratio Lower Upper

142 100

127 58.9 48.4 72.6

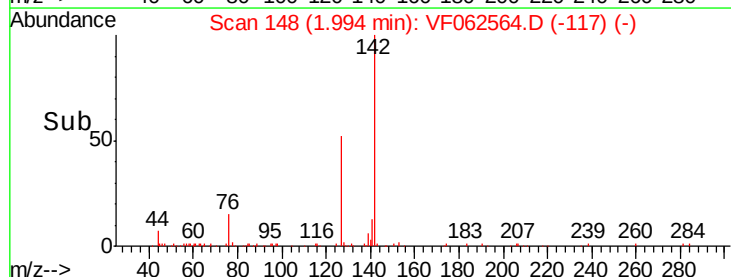
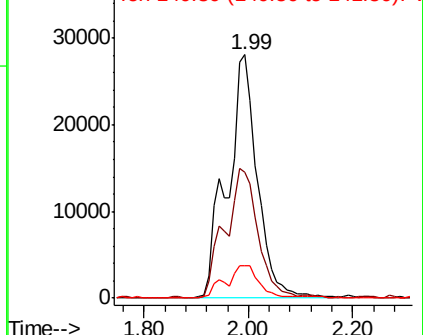
141 14.9 12.2 18.4

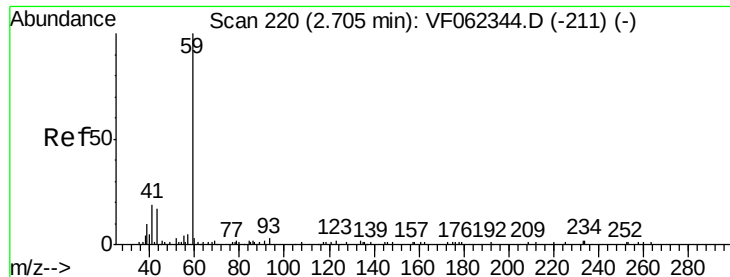


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



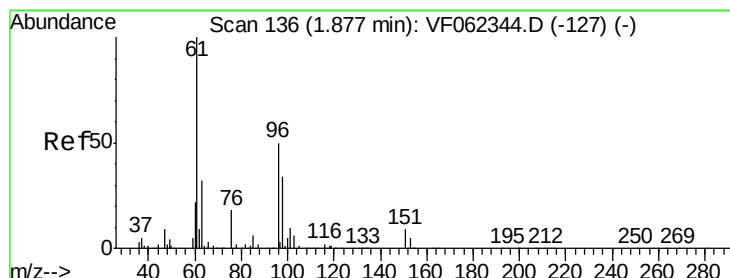
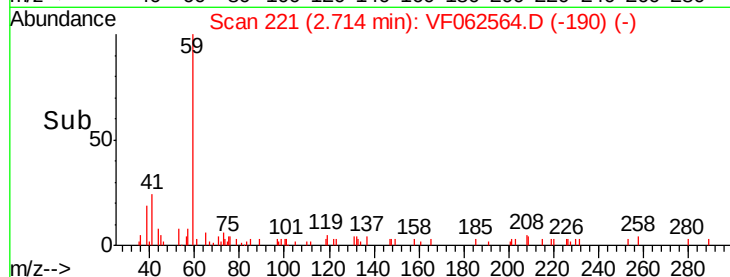
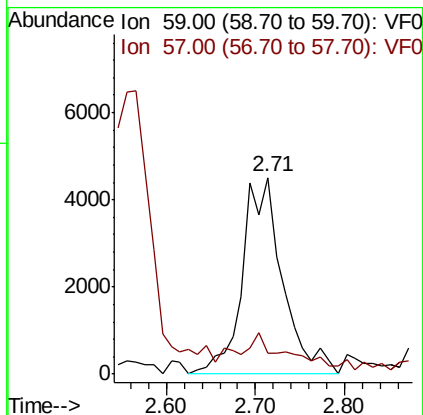
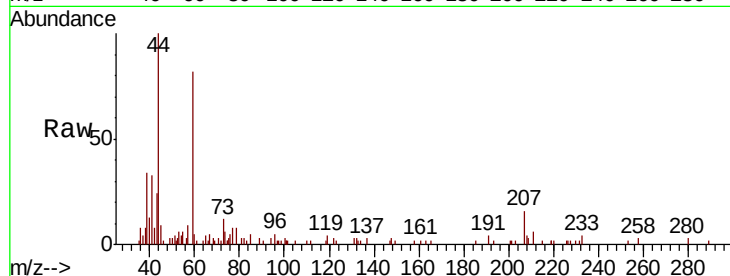


#11

Tert butyl alcohol
 Concen: 85.633 ug/l
 RT: 2.71 min Scan# 221
 Delta R.T. 0.01 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0513SBS02

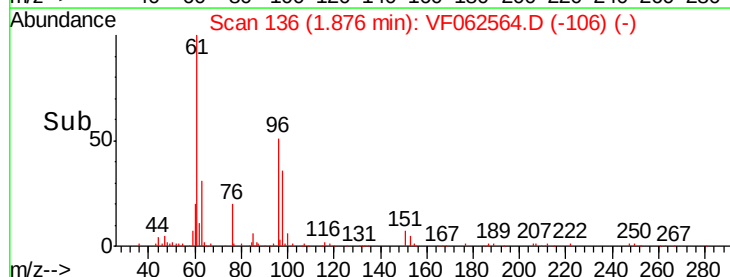
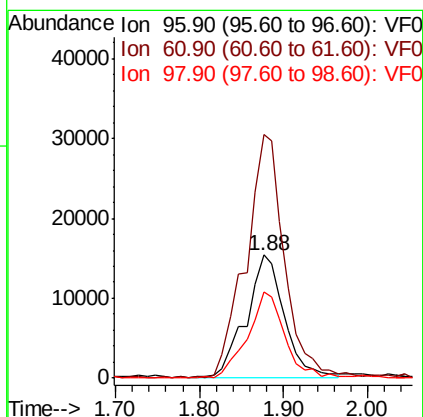
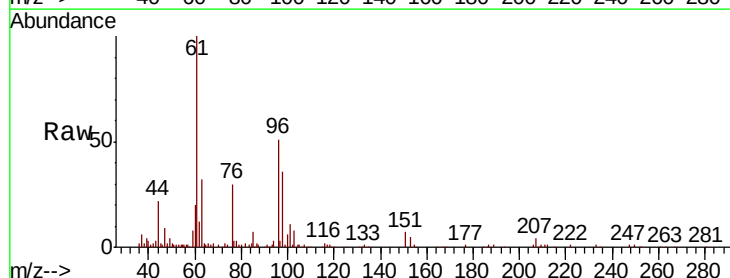
Tot Ion	59	Resp	14044
Ion Ratio	Lower	Upper	
59	100		
57	13.3	9.3	13.9

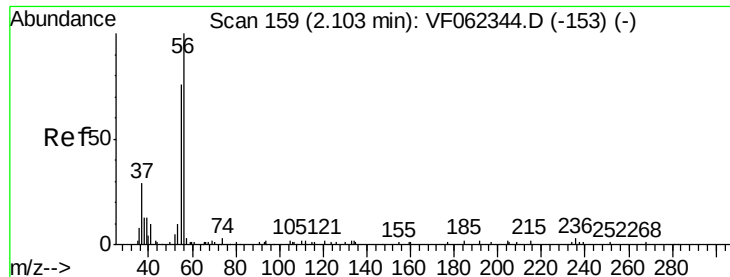


#12

1,1-Dichloroethene
 Concen: 21.105 ug/l
 RT: 1.88 min Scan# 136
 Delta R.T. -0.00 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

Tgt Ion	96	Resp	49686
Ion Ratio	Lower	Upper	
96	100		
61	197.1	163.2	244.8
98	70.5	55.2	82.8





#13

Acrolein

Concen: 62.079 ug/l

RT: 2.11 min Scan# 160

Delta R.T. 0.01 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

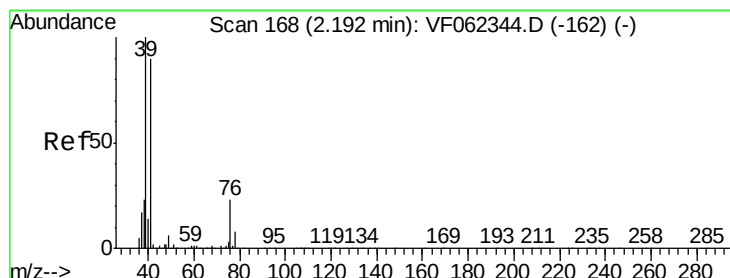
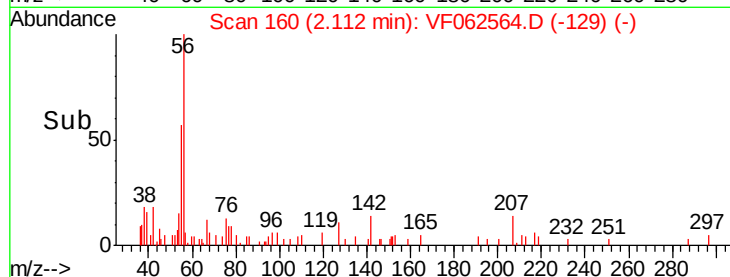
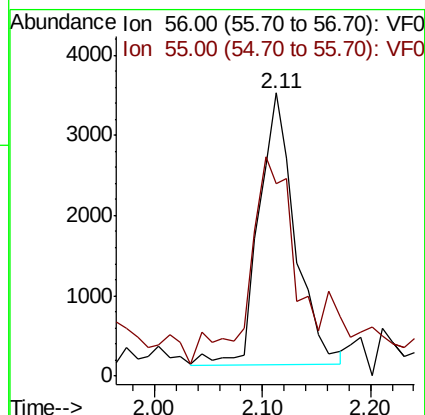
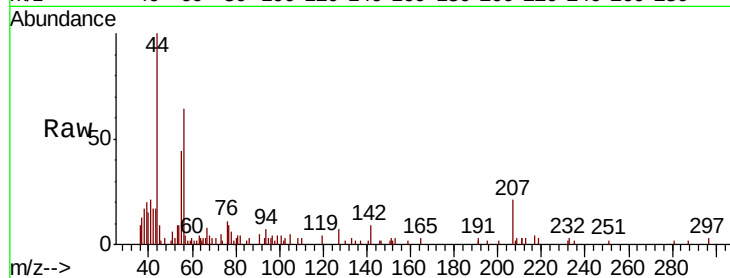
VF0513SBS02

Tot Ion: 56 Resp: 7902

Ion Ratio Lower Upper

56 100

55 94.1 58.4 87.6#



#14

Allyl chloride

Concen: 35.158 ug/l

RT: 2.21 min Scan# 170

Delta R.T. 0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

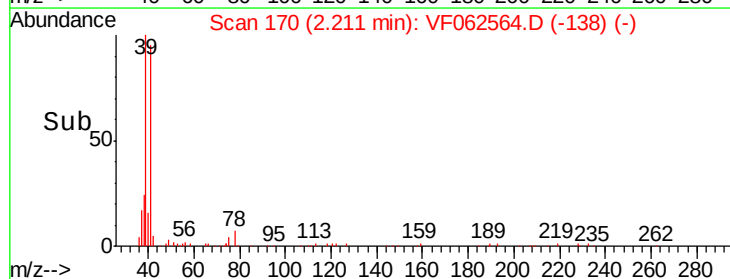
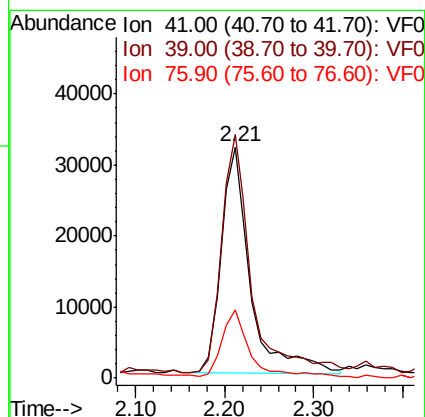
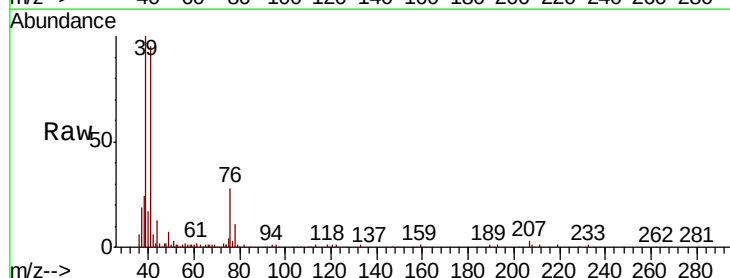
Tgt Ion: 41 Resp: 73114

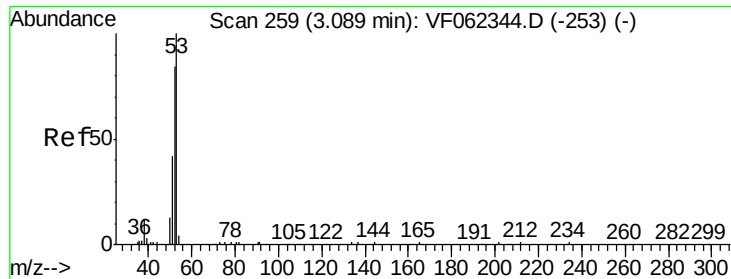
Ion Ratio Lower Upper

41 100

39 107.6 90.8 136.2

76 30.2 22.2 33.4





#15

Acrylonitrile

Concen: 117.567 ug/l

RT: 3.10 min Scan# 260

Delta R.T. 0.01 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

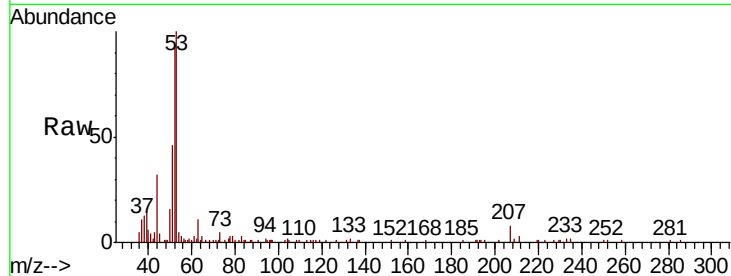
MSVOA_F

ClientSampleId :

VF0513SBS02

Tot Ion: 53 Resp: 36524

Ion	Ratio	Lower	Upper
53	100		
52	96.2	77.2	115.8
51	51.6	40.6	61.0

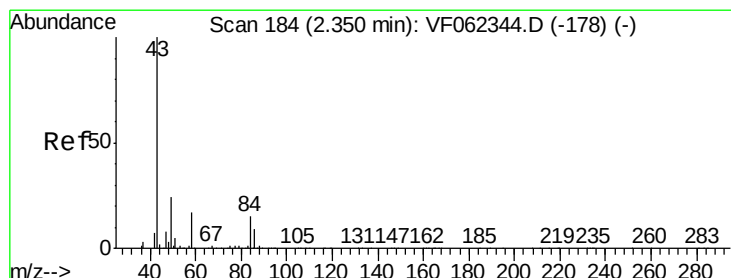
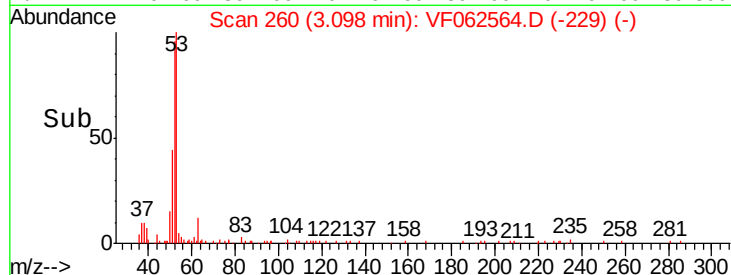
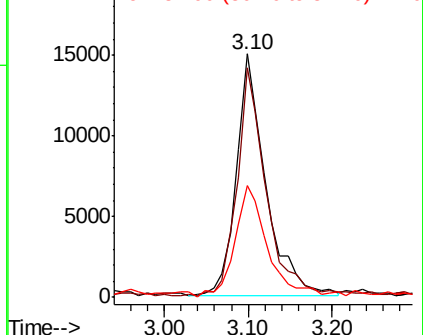


Abundance

Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 89.265 ug/l

RT: 2.36 min Scan# 185

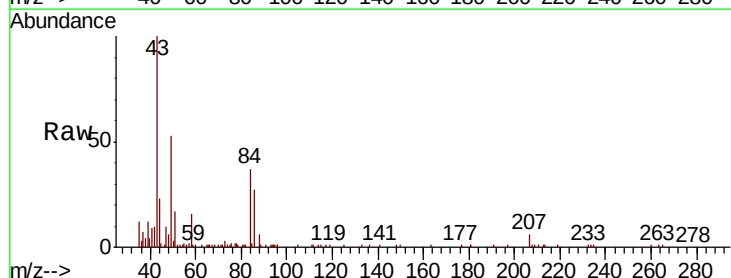
Delta R.T. 0.01 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Tgt Ion: 43 Resp: 52400

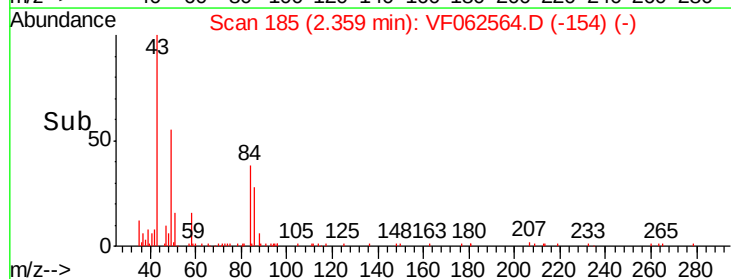
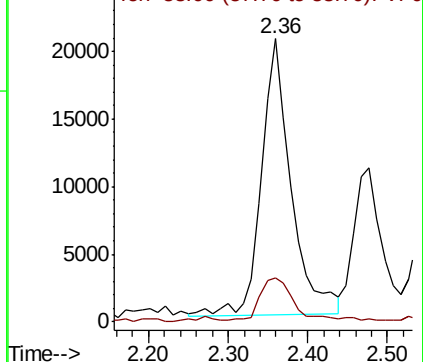
Ion	Ratio	Lower	Upper
43	100		
58	15.1	13.1	19.7

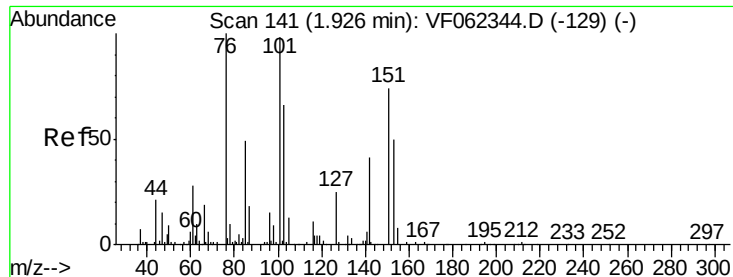


Abundance

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#17

Carbon Disulfide

Concen: 21.999 ug/l

RT: 1.91 min Scan# 139

Delta R.T. -0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

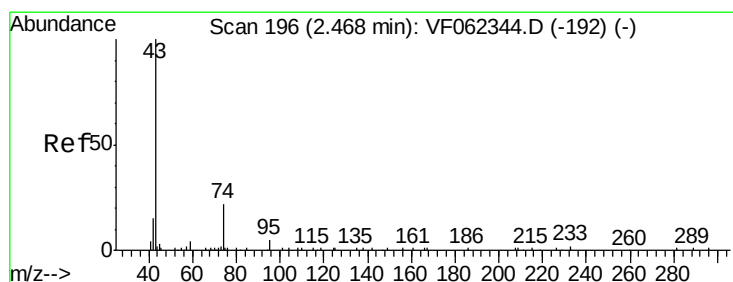
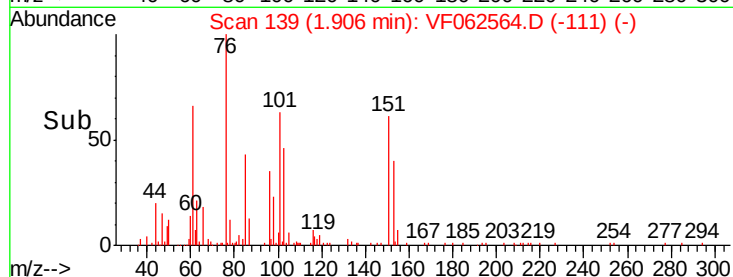
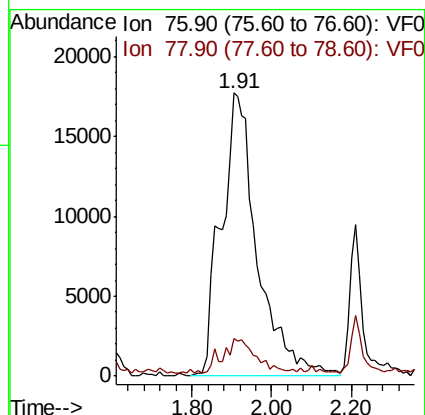
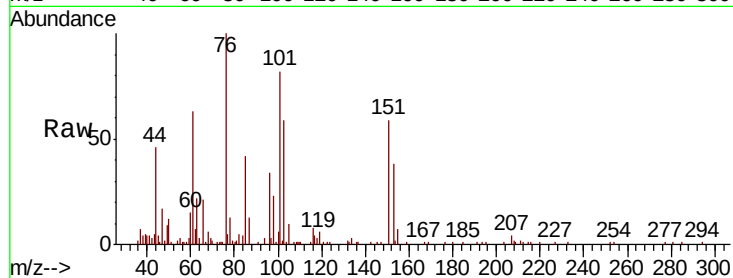
VF0513SBS02

Tot Ion: 76 Resp: 112923

Ion Ratio Lower Upper

76 100

78 12.6 9.0 13.4



#18

Methyl Acetate

Concen: 21.216 ug/l

RT: 2.48 min Scan# 197

Delta R.T. 0.01 min

Lab File: VF062564.D

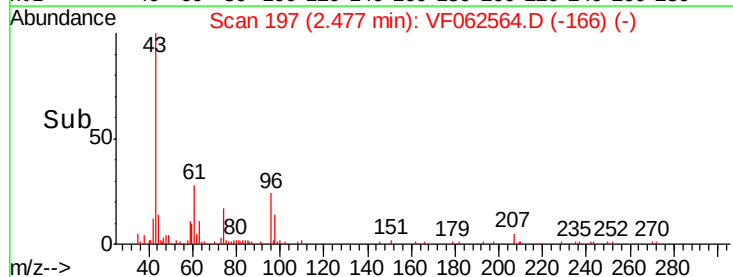
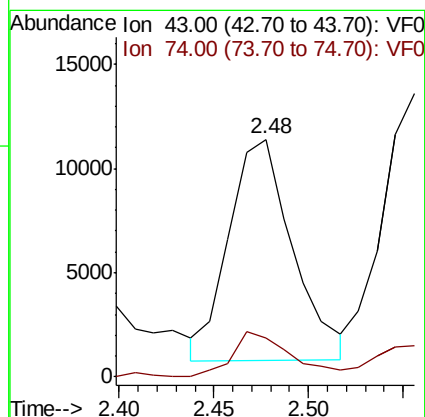
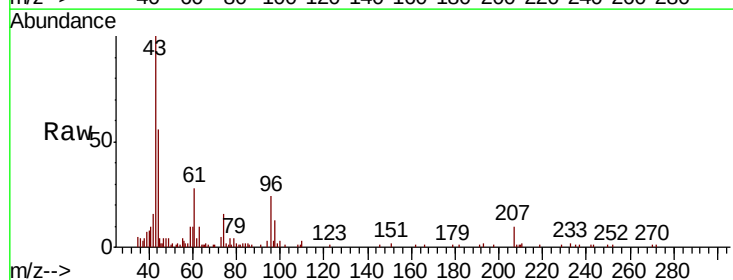
Acq: 14 May 2019 3:07

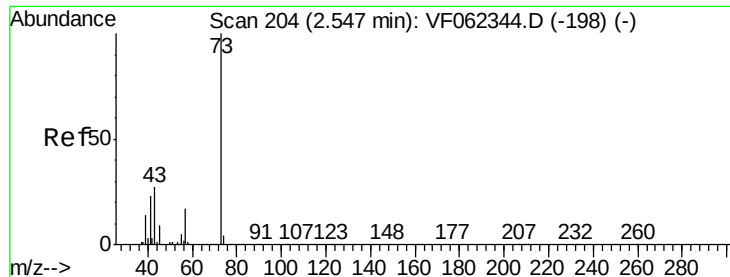
Tgt Ion: 43 Resp: 24643

Ion Ratio Lower Upper

43 100

74 18.7 15.0 22.4



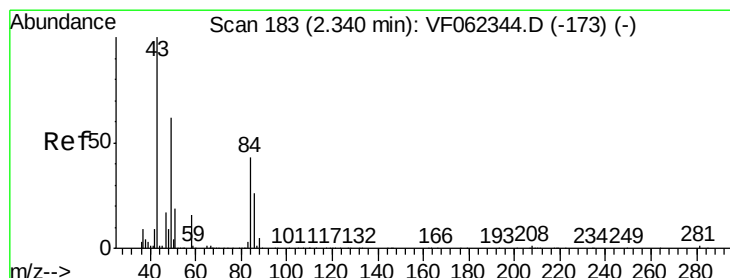
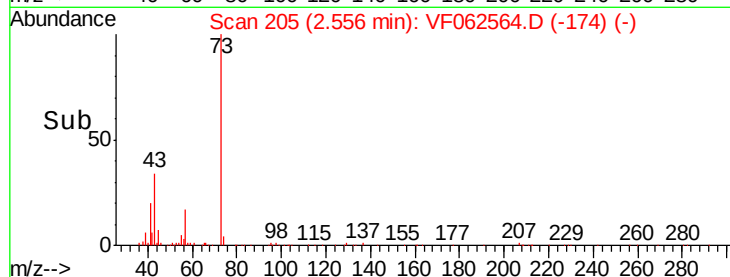
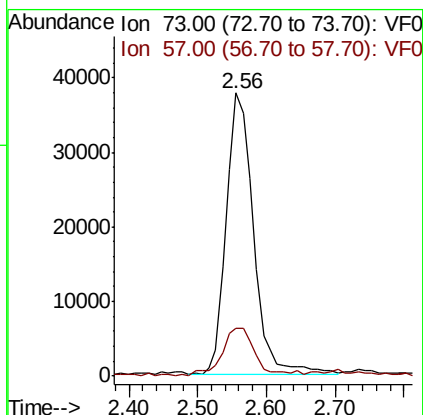
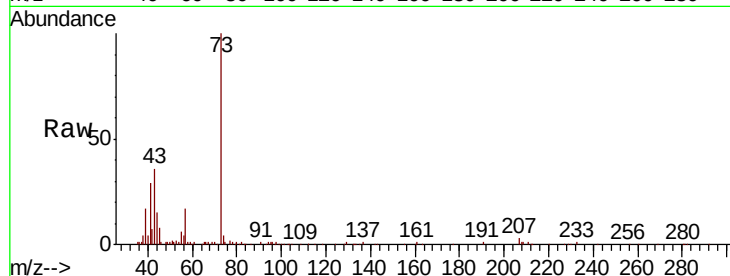


#19

Methyl tert-butyl Ether
 Concen: 21.422 ug/l
 RT: 2.56 min Scan# 205
 Delta R.T. 0.01 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0513SBS02

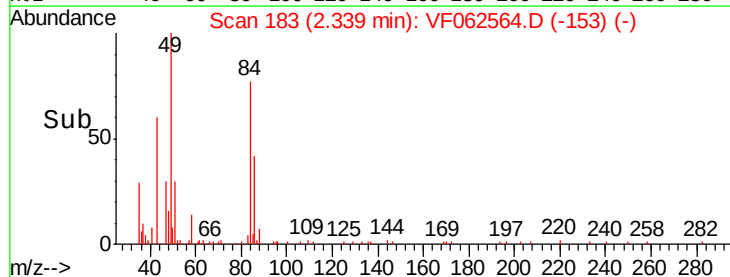
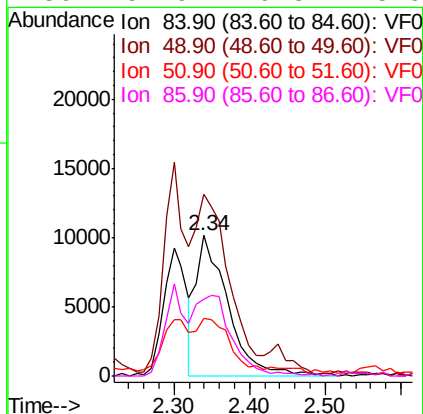
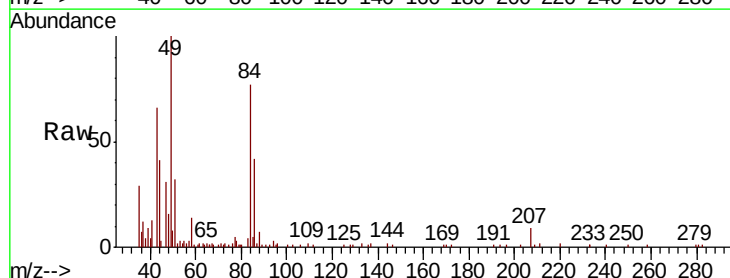
Tot Ion: 73 Resp: 104103
 Ion Ratio Lower Upper
 73 100
 57 16.8 13.7 20.5

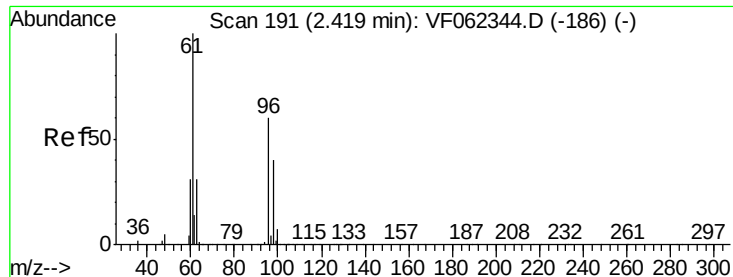


#20

Methylene Chloride
 Concen: 13.954 ug/l
 RT: 2.34 min Scan# 183
 Delta R.T. -0.00 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

Tgt Ion: 84 Resp: 29636
 Ion Ratio Lower Upper
 84 100
 49 125.7 117.5 176.3
 51 39.1 37.0 55.4
 86 54.9 49.3 73.9





#21

trans-1,2-Dichloroethene

Concen: 21.762 ug/l

RT: 2.44 min Scan# 193

Delta R.T. 0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

VF0513SBS02

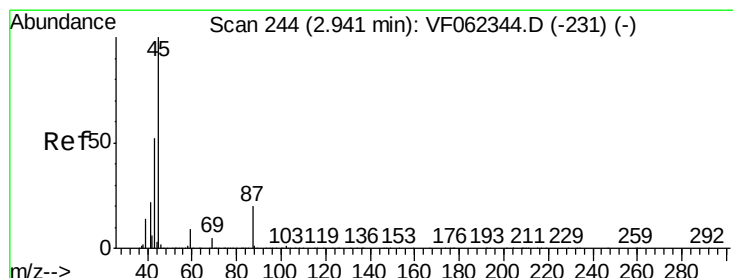
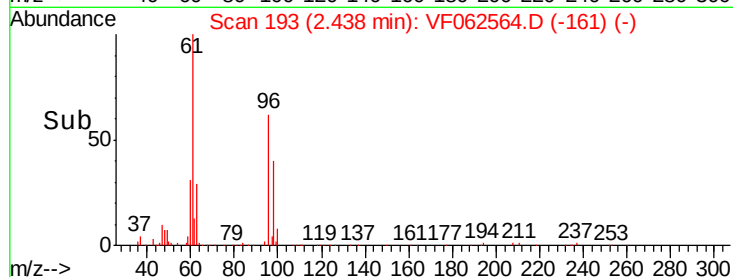
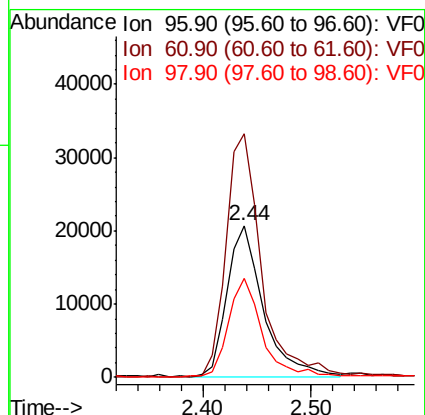
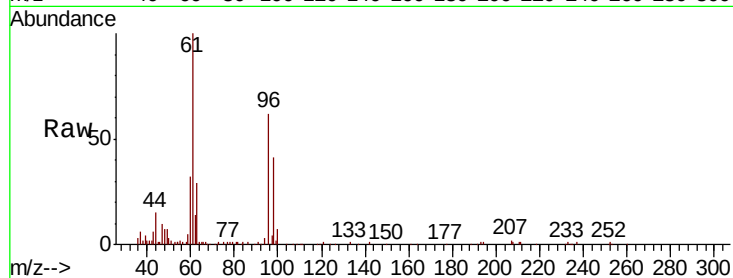
Tot Ion: 96 Resp: 48811

Ion Ratio Lower Upper

96 100

61 160.7 133.2 199.8

98 64.4 53.1 79.7



#22

Diisopropyl ether

Concen: 21.402 ug/l

RT: 2.95 min Scan# 245

Delta R.T. 0.01 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Tgt Ion: 45 Resp: 139104

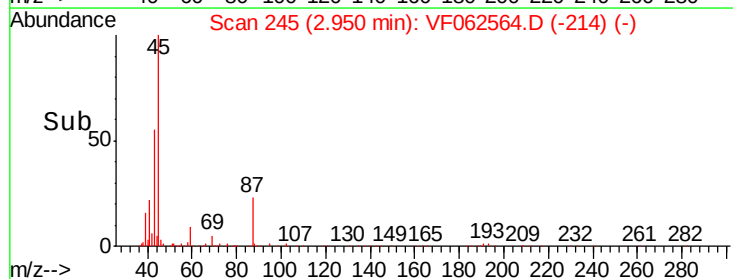
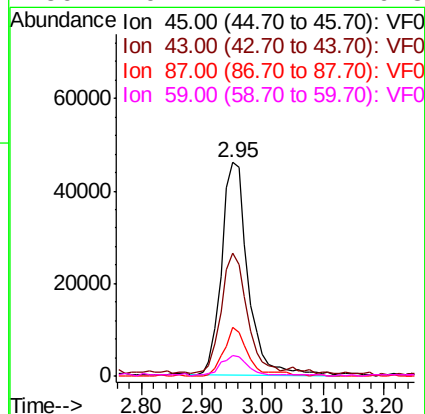
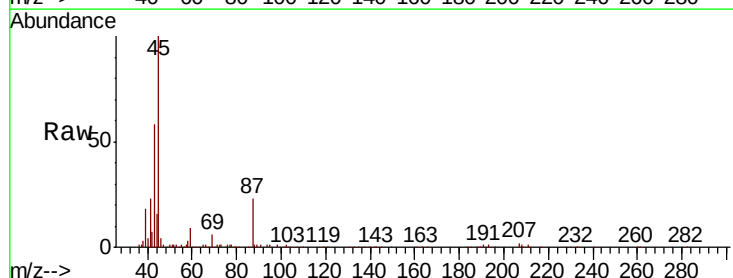
Ion Ratio Lower Upper

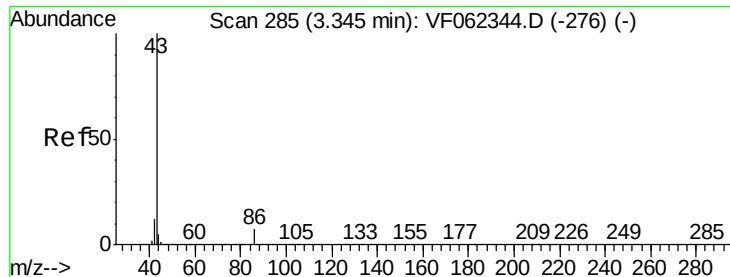
45 100

43 56.6 41.4 62.0

87 23.1 15.8 23.6

59 9.1 7.2 10.8





#23

Vinyl Acetate

Concen: 96.044 ug/l

RT: 3.36 min Scan# 287

Delta R.T. 0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

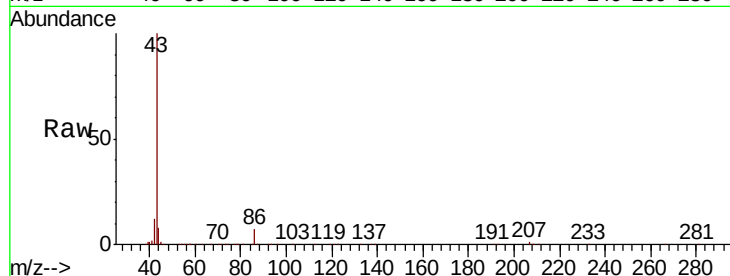
VF0513SBS02

Tot Ion: 43 Resp: 278220

Ion Ratio Lower Upper

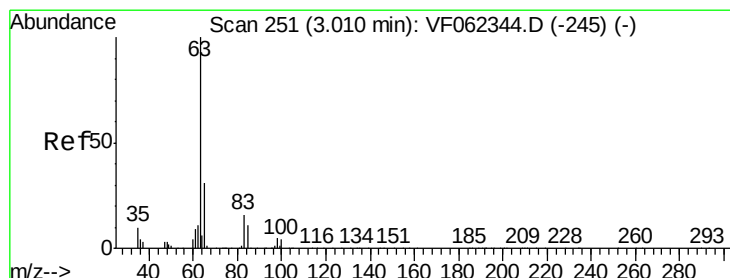
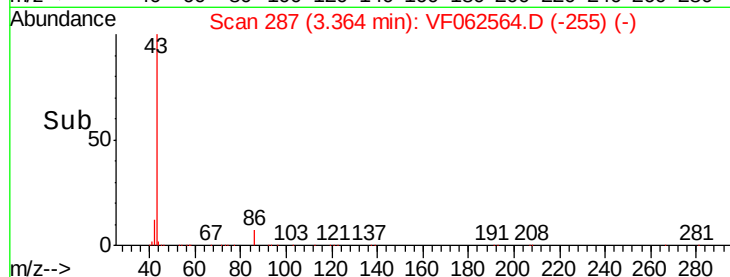
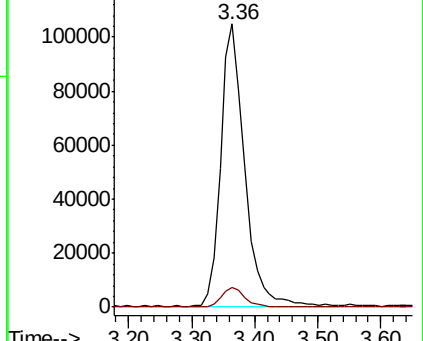
43 100

86 7.0 5.7 8.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 22.862 ug/l

RT: 3.03 min Scan# 253

Delta R.T. 0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

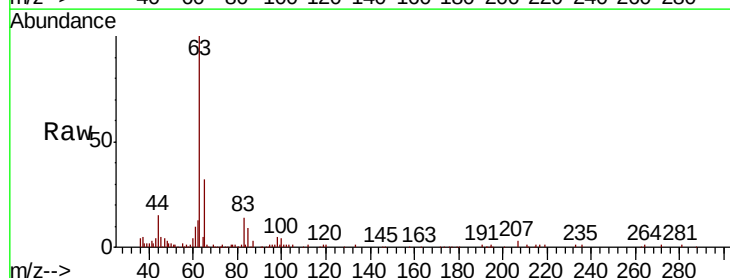
Tgt Ion: 63 Resp: 89806

Ion Ratio Lower Upper

63 100

98 5.1 2.6 8.0

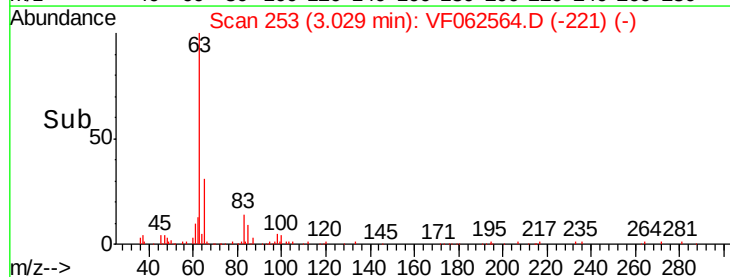
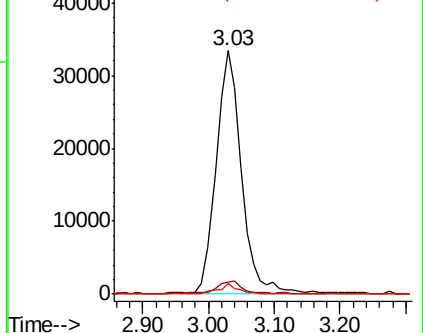
100 4.3 1.8 5.4

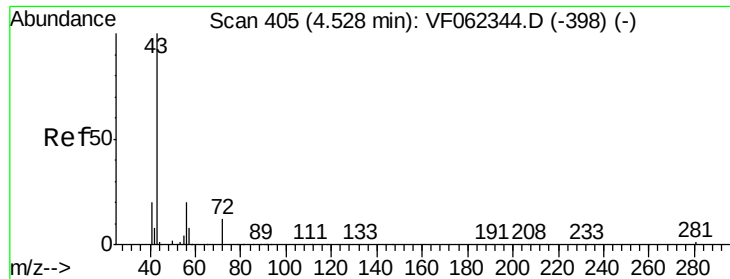


Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 97.90 (97.60 to 98.60): VF0

Ion 99.90 (99.60 to 100.60): VF0





#25

2-Butanone

Concen: 95.501 ug/l

RT: 4.55 min Scan# 407

Delta R.T. 0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

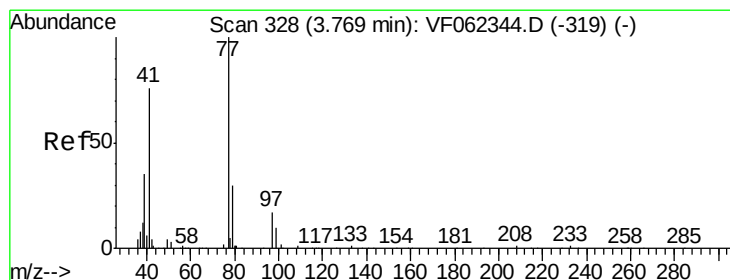
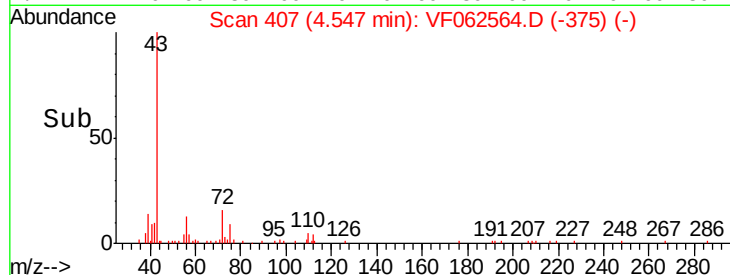
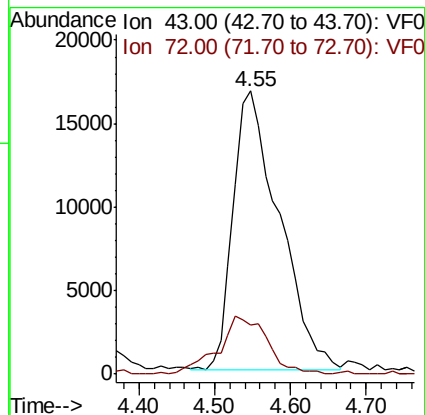
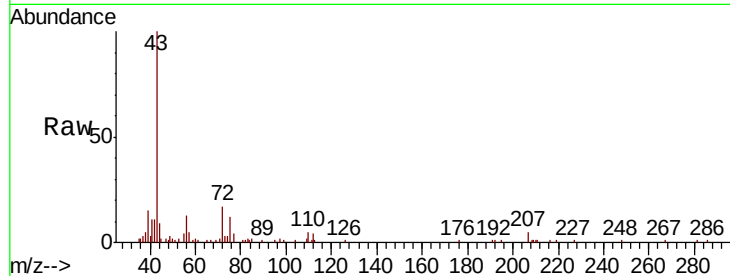
VF0513SBS02

Tot Ion: 43 Resp: 70431

Ion Ratio Lower Upper

43 100

72 17.0 14.2 21.4



#26

2,2-Dichloropropane

Concen: 23.354 ug/l

RT: 3.79 min Scan# 330

Delta R.T. 0.02 min

Lab File: VF062564.D

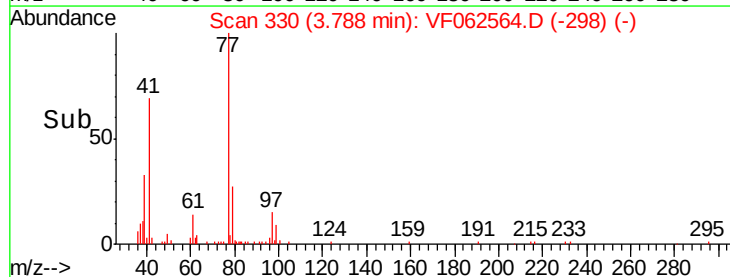
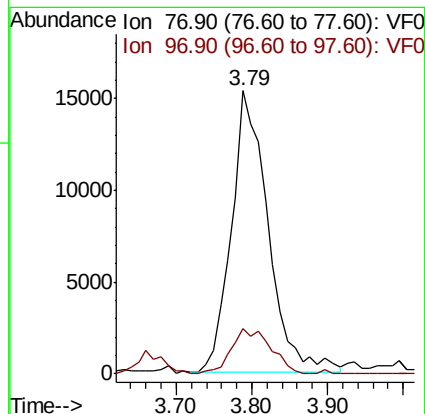
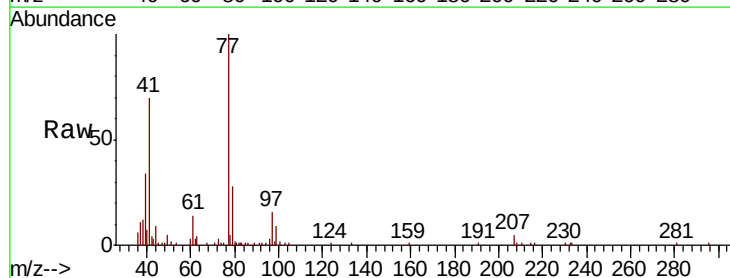
Acq: 14 May 2019 3:07

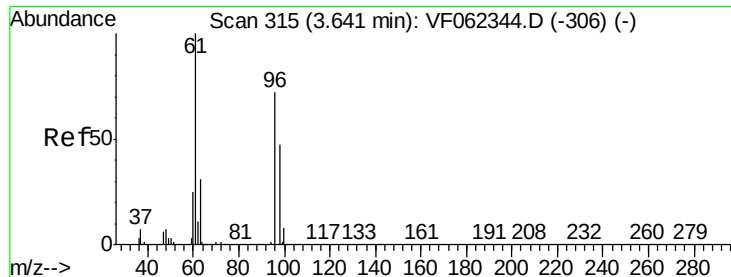
Tgt Ion: 77 Resp: 51231

Ion Ratio Lower Upper

77 100

97 17.3 9.5 28.5



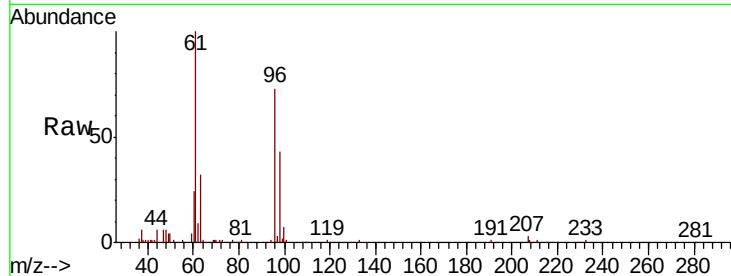


#27

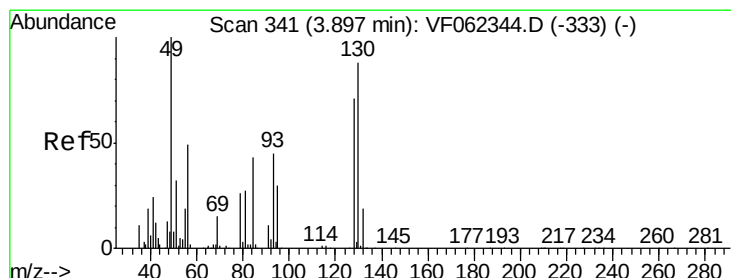
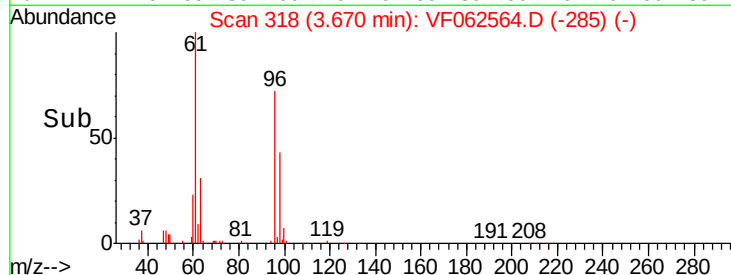
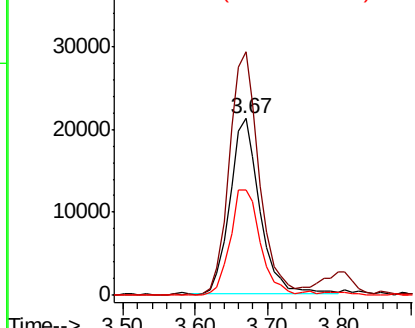
cis-1,2-Dichloroethene
Concen: 21.861 ug/l
RT: 3.67 min Scan# 318
Delta R.T. 0.03 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS02

Tot Ion: 96 Resp: 61292
Ion Ratio Lower Upper
96 100
61 137.4 0.0 263.0
98 60.6 0.0 130.8



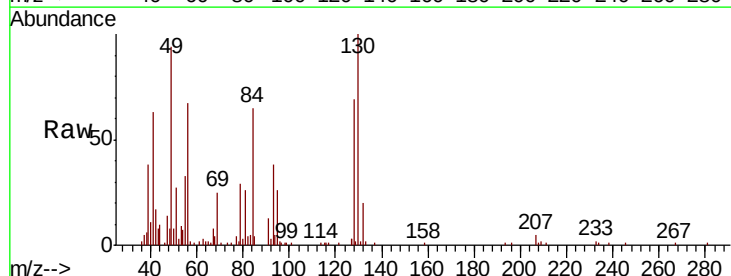
Abundance Ion 95.90 (95.60 to 96.60): VF0
Ion 60.90 (60.60 to 61.60): VF0
Ion 97.90 (97.60 to 98.60): VF0



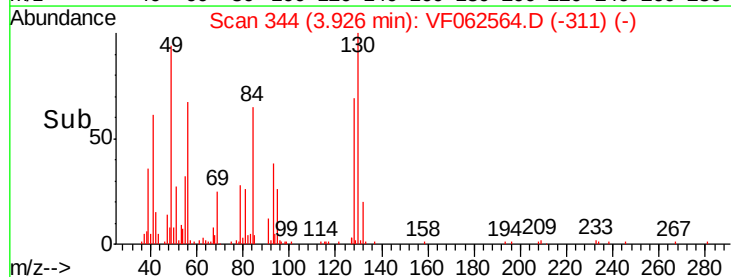
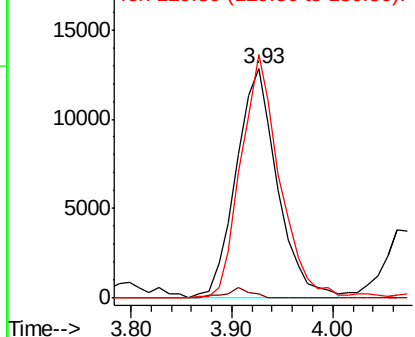
#28

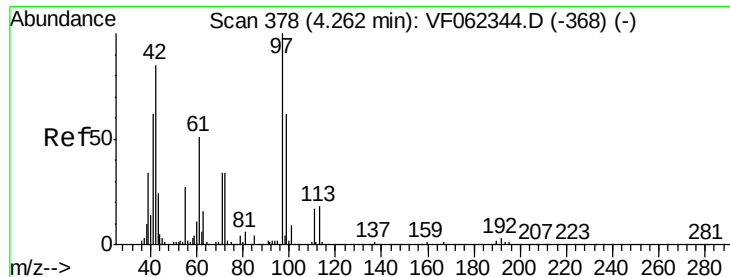
Bromochloromethane
Concen: 20.531 ug/l
RT: 3.93 min Scan# 344
Delta R.T. 0.03 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Tgt Ion: 49 Resp: 36576
Ion Ratio Lower Upper
49 100
129 2.6 0.0 2.2#
130 99.7 79.4 119.0



Abundance Ion 48.90 (48.60 to 49.60): VF0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 98.376 ug/l

RT: 4.29 min Scan# 381

Delta R.T. 0.03 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

VF0513SBS02

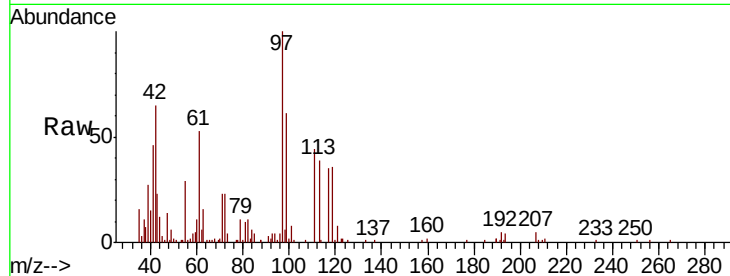
Tot Ion: 42 Resp: 33344

Ion Ratio Lower Upper

42 100

72 34.6 31.4 47.0

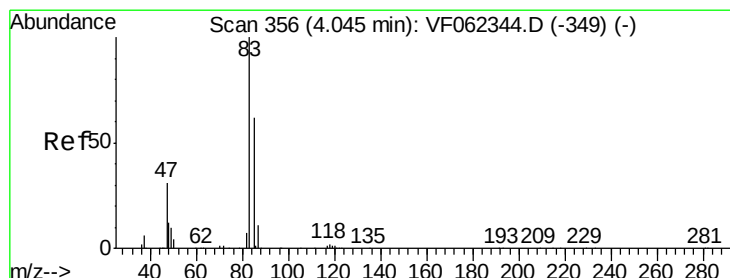
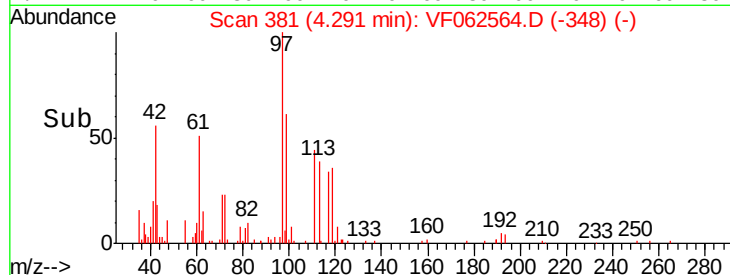
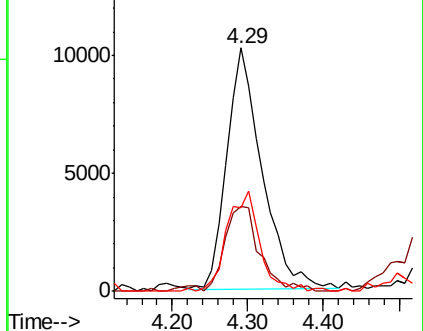
71 38.5 31.7 47.5



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: 23.887 ug/l

RT: 4.07 min Scan# 359

Delta R.T. 0.03 min

Lab File: VF062564.D

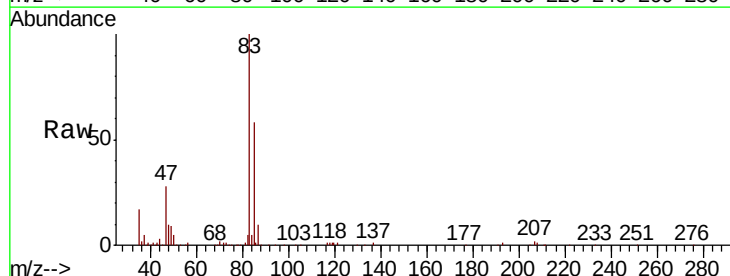
Acq: 14 May 2019 3:07

Tgt Ion: 83 Resp: 126767

Ion Ratio Lower Upper

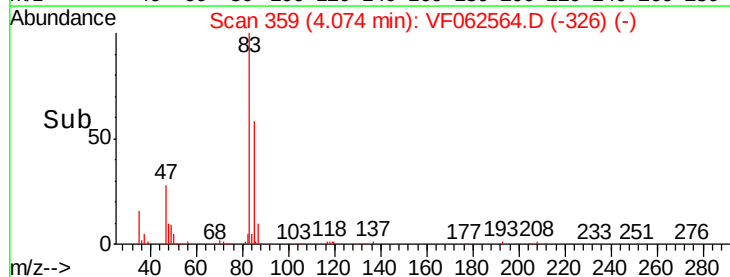
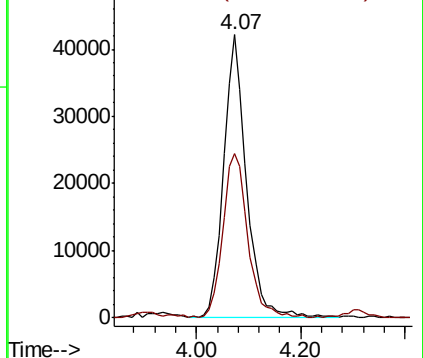
83 100

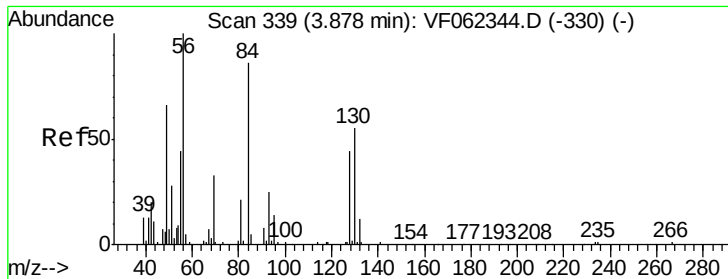
85 57.9 49.6 74.4



Abundance Ion 82.90 (82.60 to 83.60): VF0

Ion 84.90 (84.60 to 85.60): VF0

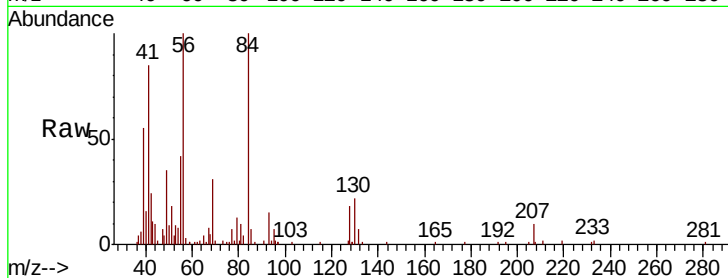




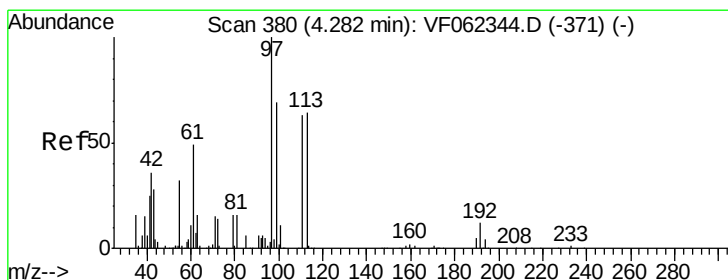
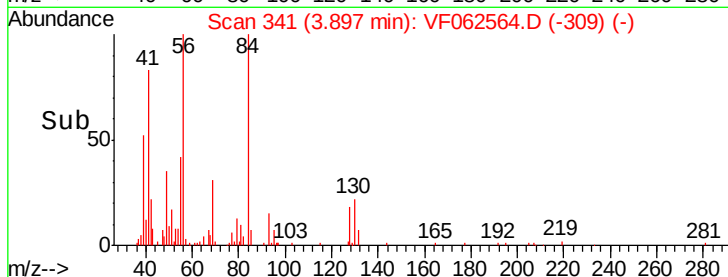
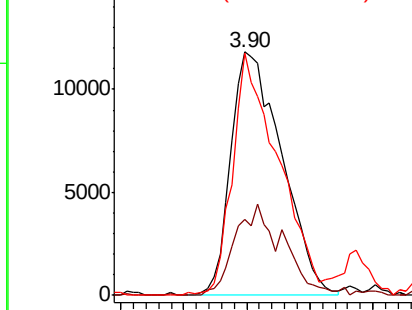
#31
Cyclohexane
Concen: 21.148 ug/l
RT: 3.90 min Scan# 341
Delta R.T. 0.02 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS02

Tot Ion: 56 Resp: 66308
Ion Ratio Lower Upper
56 100
69 31.2 26.4 39.6
84 98.4 69.0 103.6

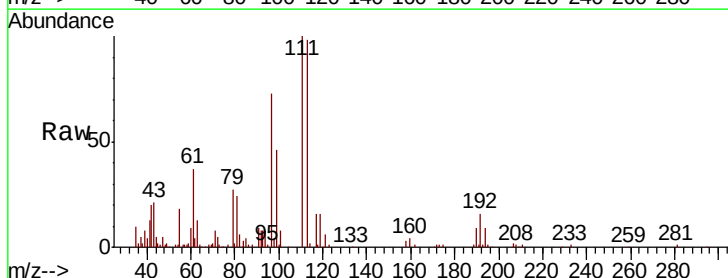


Abundance Ion 56.00 (55.70 to 56.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 84.00 (83.70 to 84.70): VF0

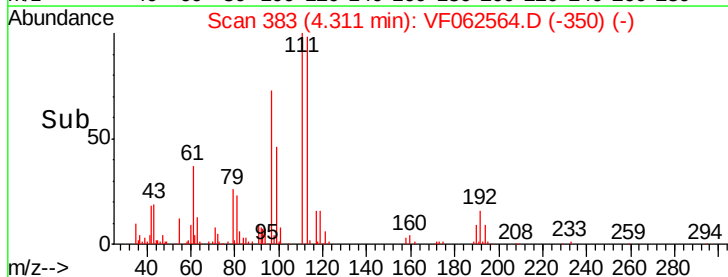
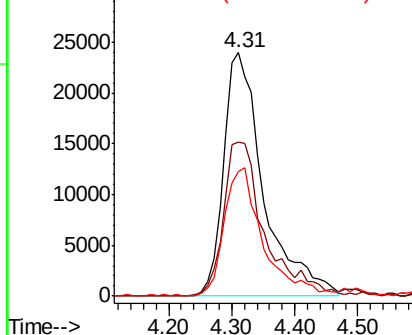


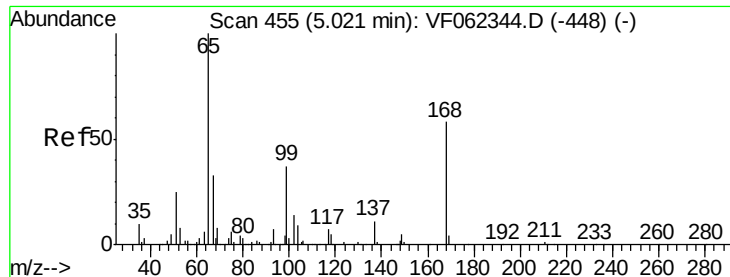
#32
1,1,1-Trichloroethane
Concen: 23.237 ug/l
RT: 4.31 min Scan# 383
Delta R.T. 0.03 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Tgt Ion: 97 Resp: 105691
Ion Ratio Lower Upper
97 100
99 64.8 52.6 78.8
61 50.7 39.4 59.0



Abundance Ion 96.90 (96.60 to 97.60): VF0
Ion 98.90 (98.60 to 99.60): VF0
Ion 60.90 (60.60 to 61.60): VF0

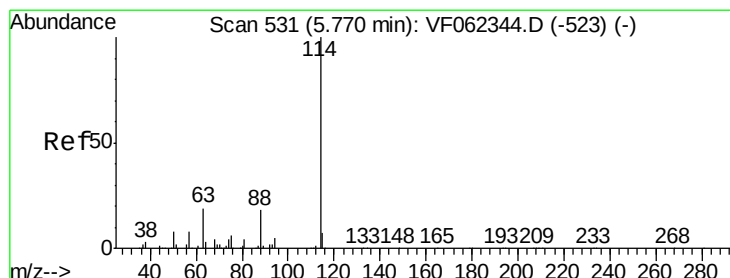
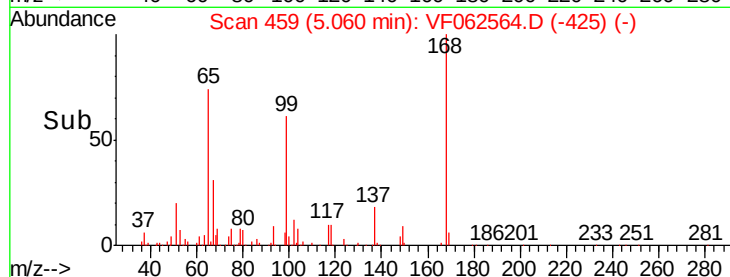
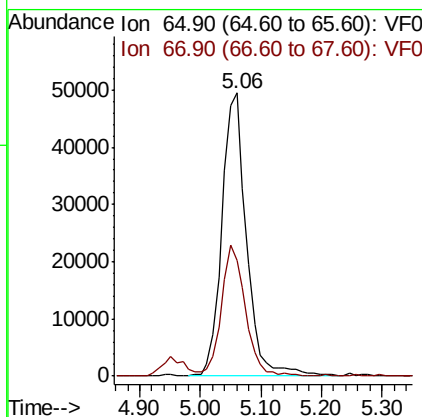
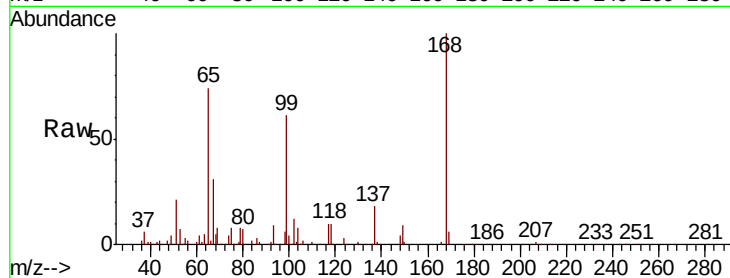




#33
 1,2-Dichloroethane-d4
 Concen: 47.763 ug/l
 RT: 5.06 min Scan# 459
 Delta R.T. 0.04 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

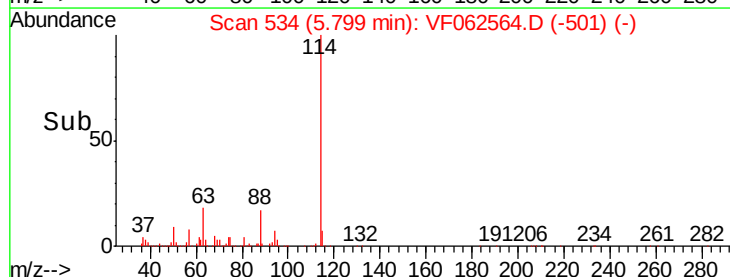
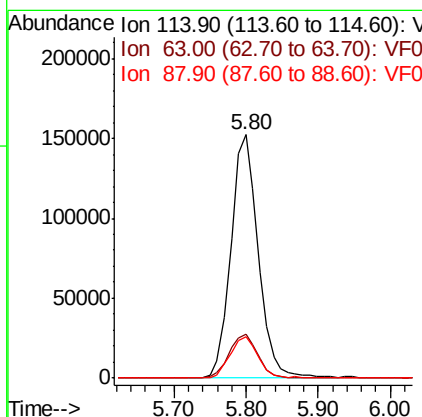
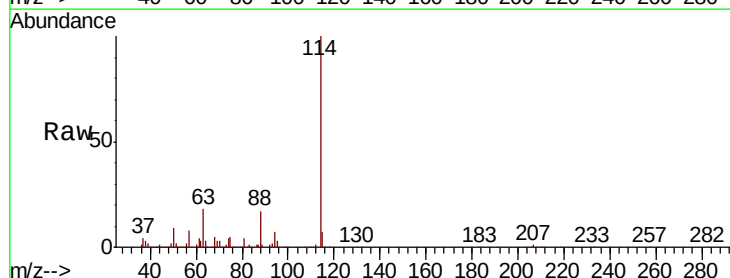
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0513SBS02

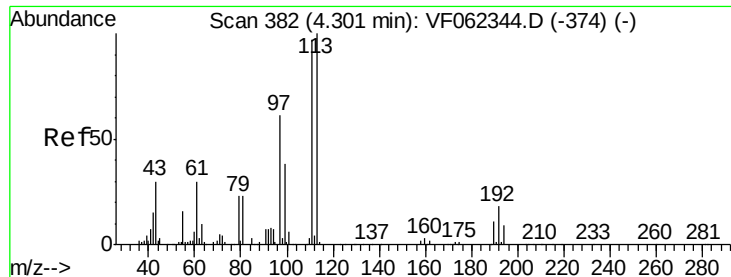
Tot Ion: 65 Resp: 138600
 Ion Ratio Lower Upper
 65 100
 67 45.1 0.0 85.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.80 min Scan# 534
 Delta R.T. 0.03 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

Tgt Ion: 114 Resp: 403293
 Ion Ratio Lower Upper
 114 100
 63 18.1 0.0 37.4
 88 17.2 0.0 36.4

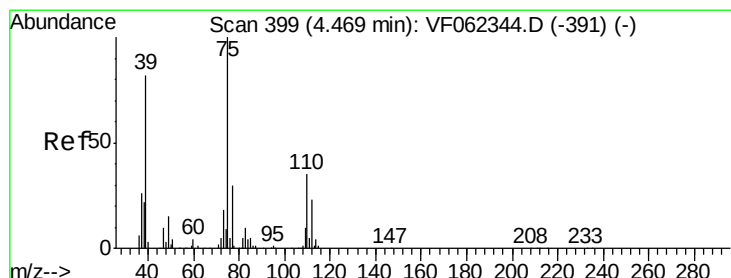
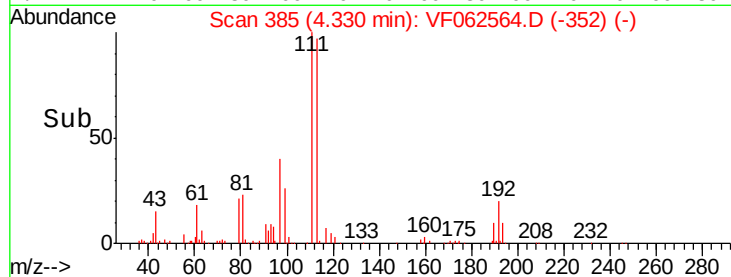
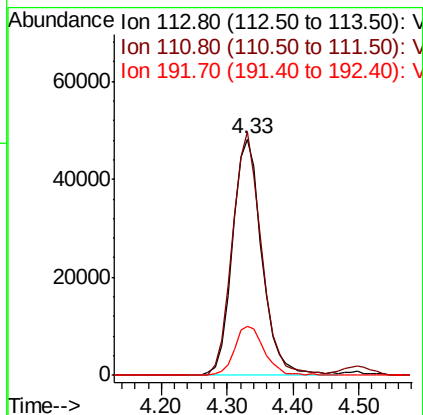
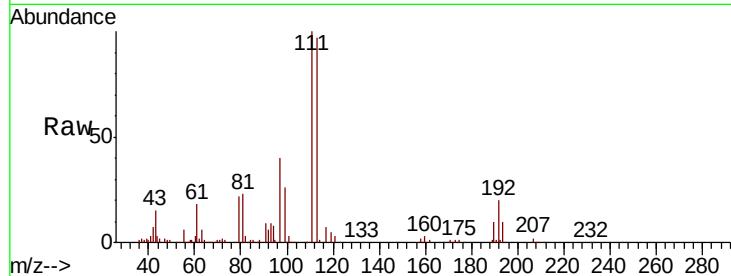




#35
 Dibromofluoromethane
 Concen: 47.139 ug/l
 RT: 4.33 min Scan# 385
 Delta R.T. 0.03 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

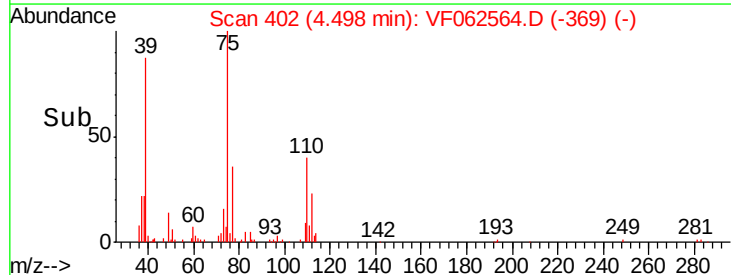
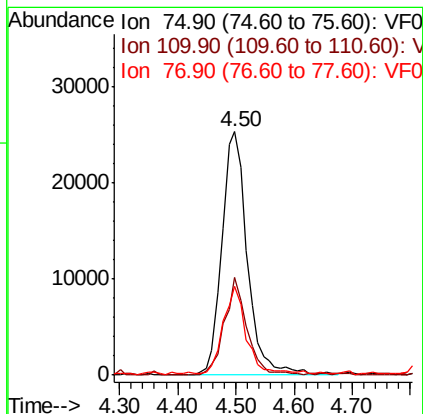
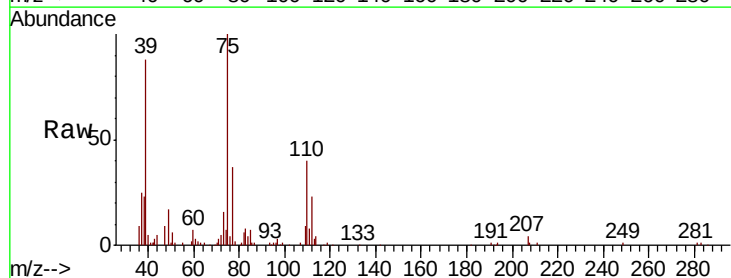
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0513SBS02

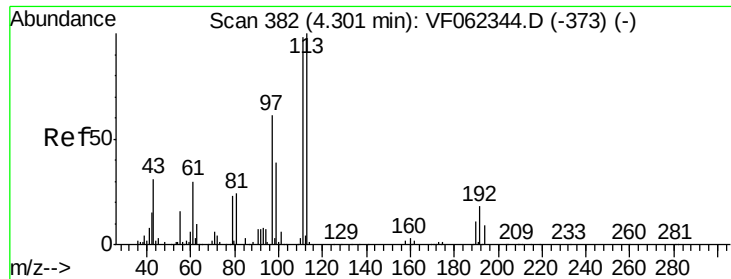
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.7	79.4	119.0
192	20.9	16.0	24.0



#36
 1,1-Dichloropropene
 Concen: 22.303 ug/l
 RT: 4.50 min Scan# 402
 Delta R.T. 0.03 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

Tgt Ion	Ratio	Lower	Upper
75	100		
110	35.3	17.2	51.5
77	30.7	25.2	37.8

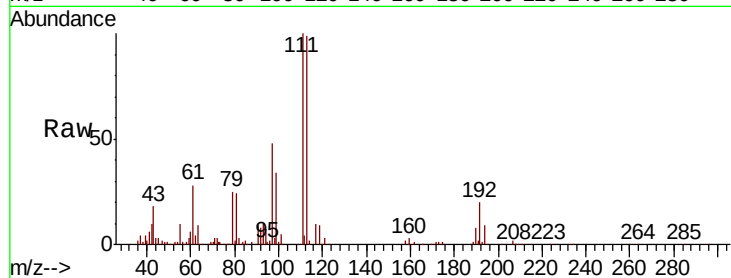




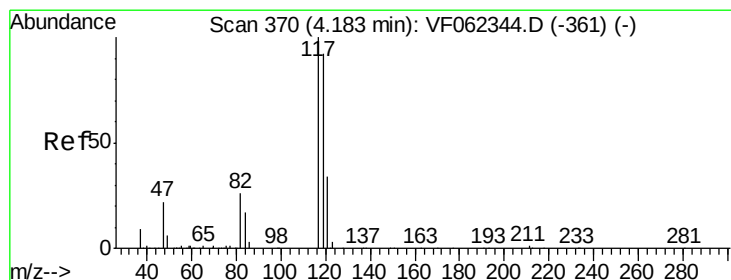
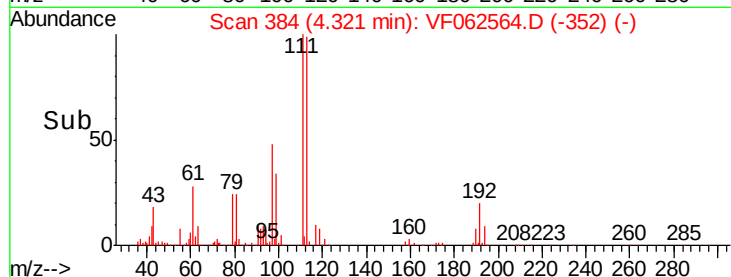
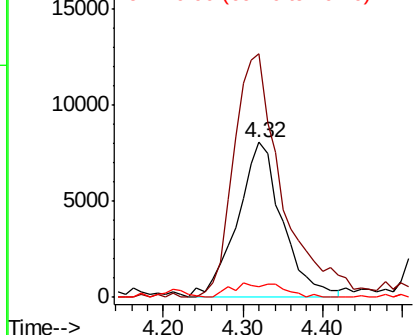
#37
Ethyl Acetate
Concen: 20.234 ug/l
RT: 4.32 min Scan# 384
Delta R.T. 0.02 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS02

Tot Ion: 43 Resp: 31529
Ion Ratio Lower Upper
43 100
61 170.1 0.0 0.0#
70 6.0 8.2 12.2#

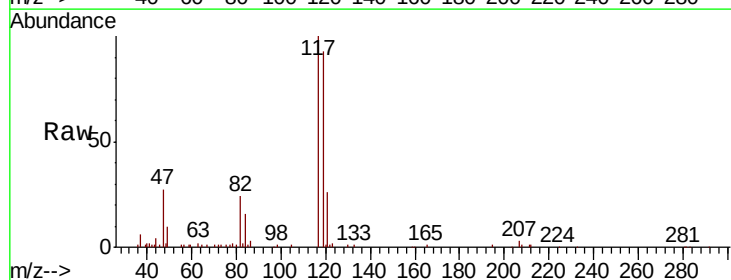


Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 60.90 (60.60 to 61.60): VF0
Ion 70.00 (69.70 to 70.70): VF0

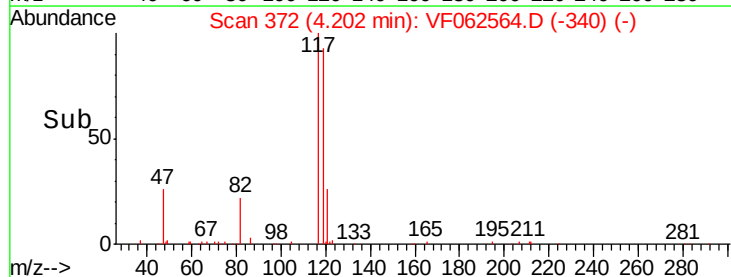
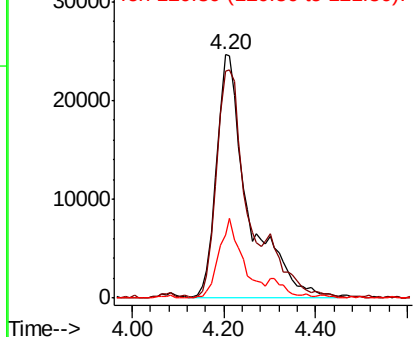


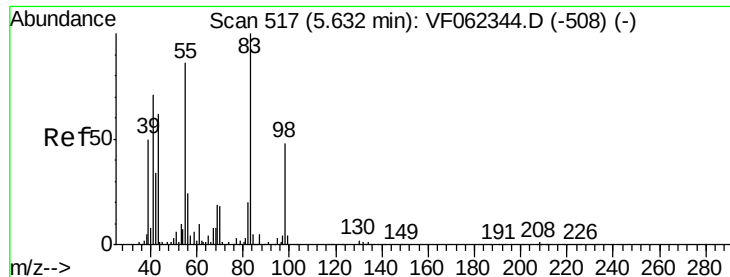
#38
Carbon Tetrachloride
Concen: 32.173 ug/l
RT: 4.20 min Scan# 372
Delta R.T. 0.02 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Tgt Ion: 117 Resp: 119171
Ion Ratio Lower Upper
117 100
119 92.7 73.4 110.2
121 26.2 27.4 41.0#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

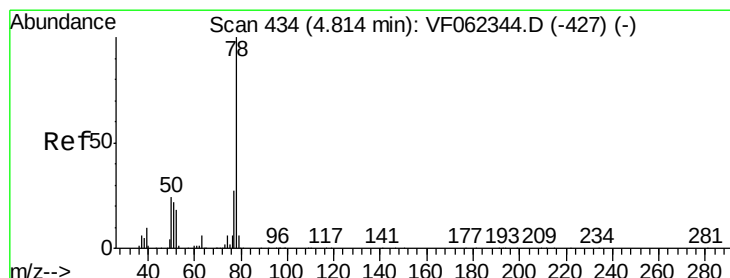
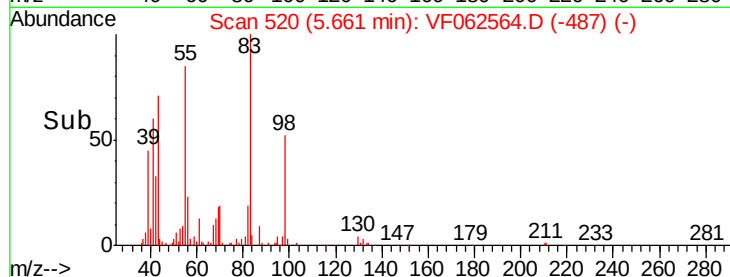
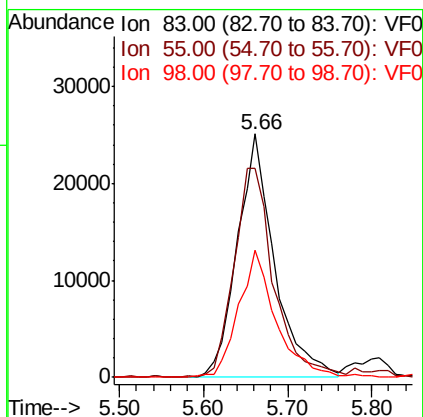
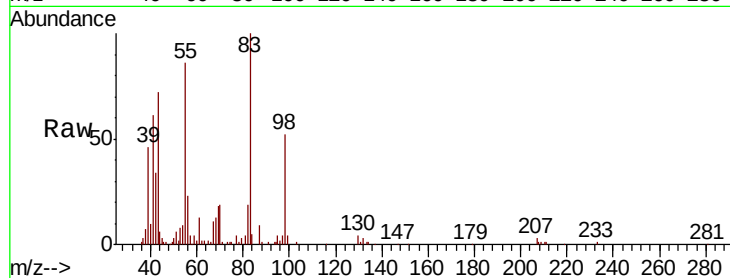




#39
Methylvlcyclohexane
Concen: 22.256 ug/l
RT: 5.66 min Scan# 520
Delta R.T. 0.03 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

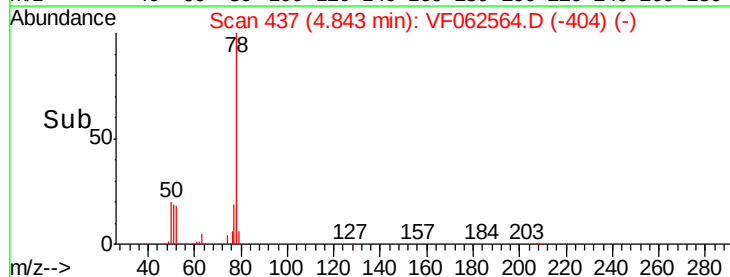
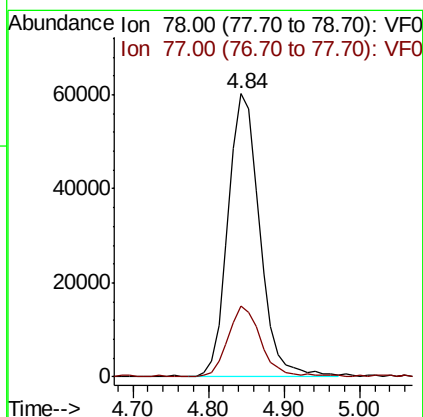
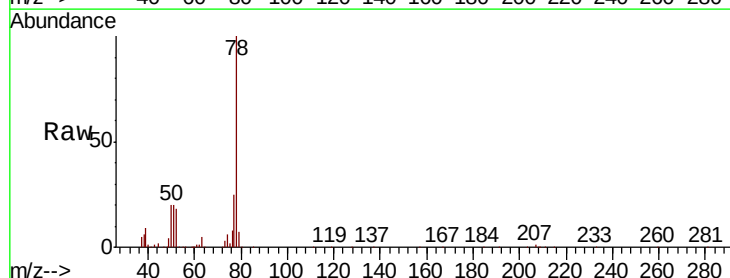
Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS02

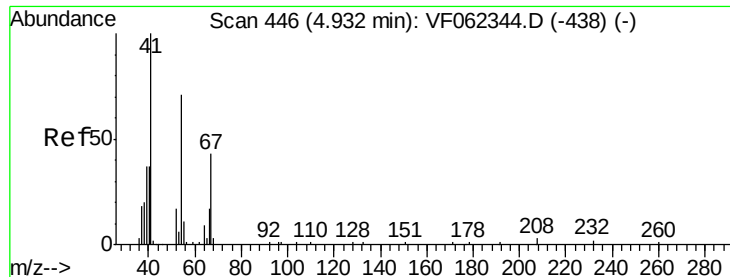
Tot Ion: 83 Resp: 77328
Ion Ratio Lower Upper
83 100
55 84.9 69.0 103.6
98 52.1 38.6 58.0



#40
Benzene
Concen: 22.898 ug/l
RT: 4.84 min Scan# 437
Delta R.T. 0.03 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Tgt Ion: 78 Resp: 174686
Ion Ratio Lower Upper
78 100
77 24.5 21.6 32.4





#41

Methacrylonitrile

Concen: 19.457 ug/l

RT: 4.96 min Scan# 449

Delta R.T. 0.03 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

VF0513SBS02

Tot Ion: 41 Resp: 16163

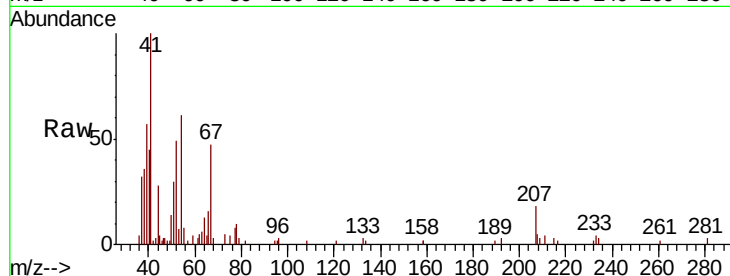
Ion Ratio Lower Upper

41 100

39 77.8 54.3 81.5

67 54.9 37.8 56.8

52 71.8 58.2 87.4

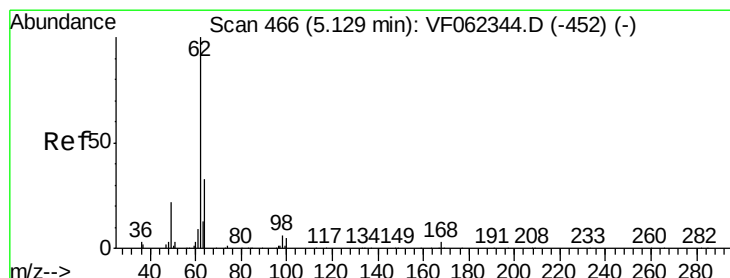
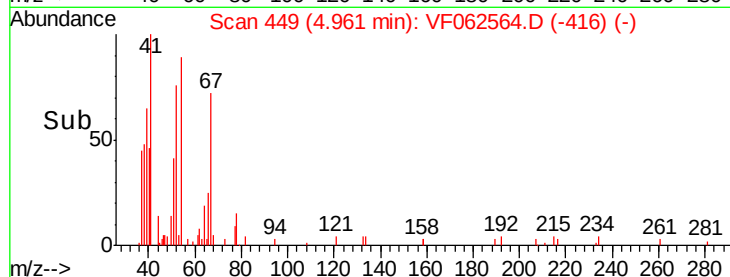
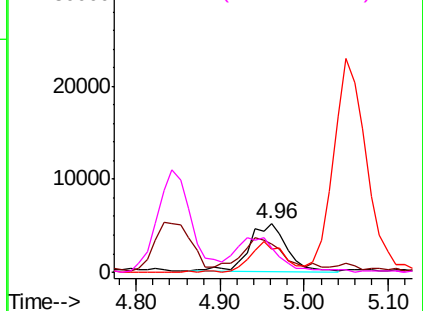


Abundance Ion 41.00 (40.70 to 41.70): VF0

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: 23.844 ug/l

RT: 5.15 min Scan# 468

Delta R.T. 0.02 min

Lab File: VF062564.D

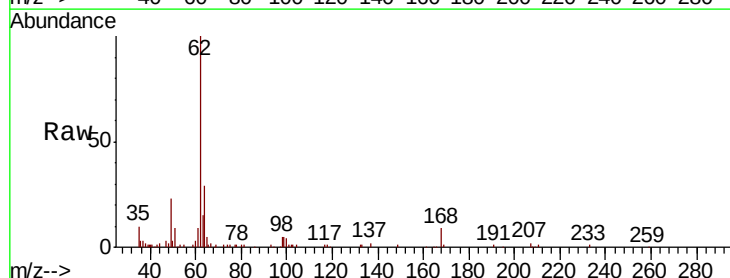
Acq: 14 May 2019 3:07

Tgt Ion: 62 Resp: 76080

Ion Ratio Lower Upper

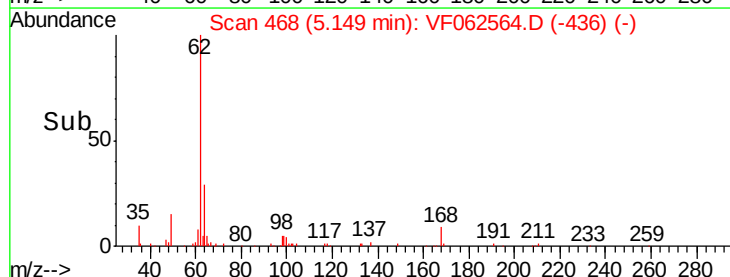
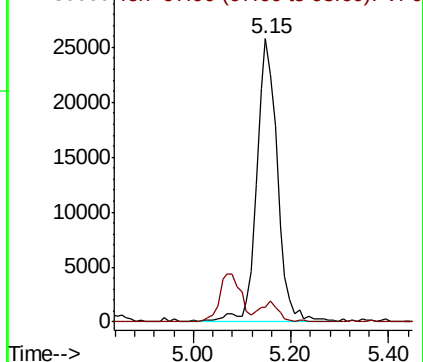
62 100

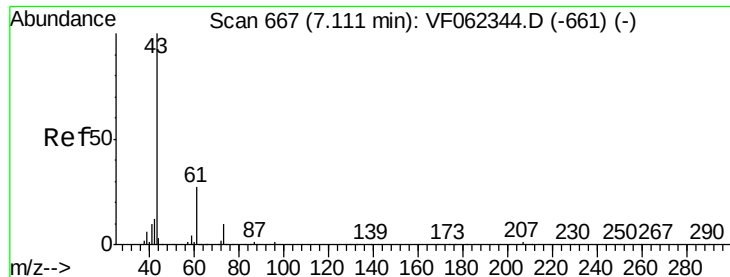
98 6.5 0.0 12.4



Abundance Ion 61.90 (61.60 to 62.60): VF0

Ion 97.90 (97.60 to 98.60): VF0





#43

Isopropyl Acetate

Concen: 18.485 ug/l

RT: 7.13 min Scan# 669

Delta R.T. 0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

VF0513SBS02

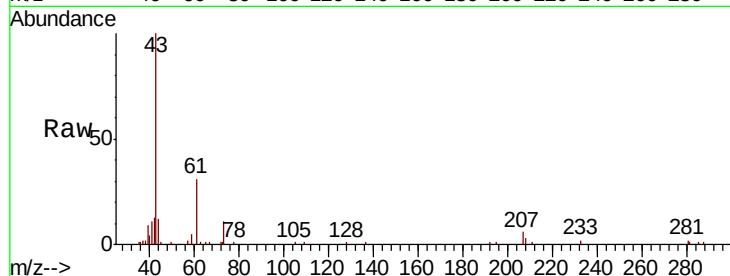
Tot Ion: 43 Resp: 29128

Ion Ratio Lower Upper

43 100

61 28.8 22.8 34.2

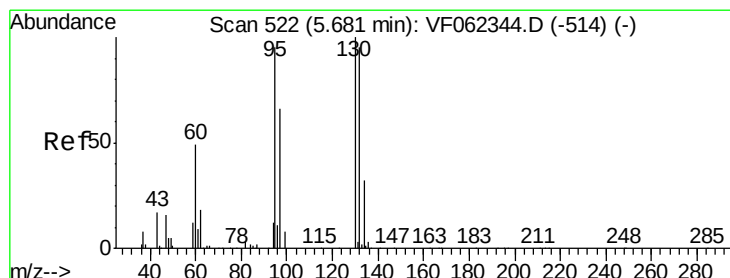
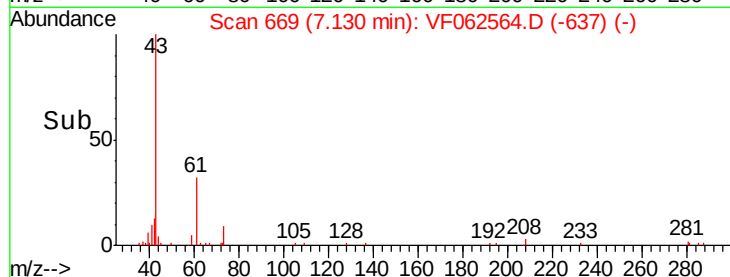
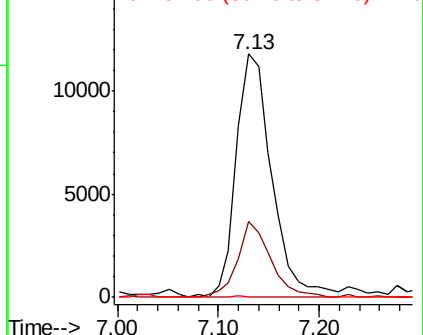
87 0.2 0.6 1.0#



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: 23.851 ug/l

RT: 5.71 min Scan# 525

Delta R.T. 0.03 min

Lab File: VF062564.D

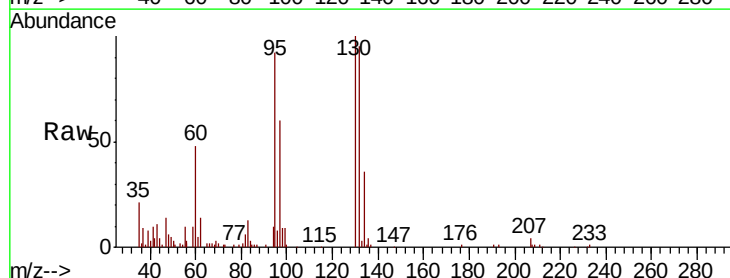
Acq: 14 May 2019 3:07

Tgt Ion:130 Resp: 66841

Ion Ratio Lower Upper

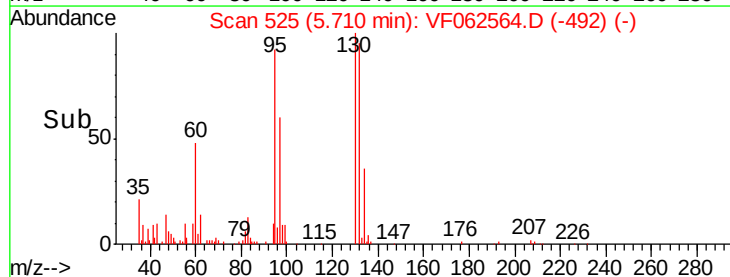
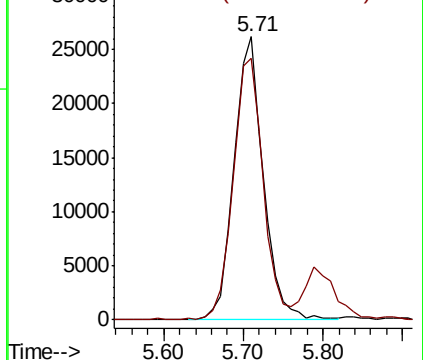
130 100

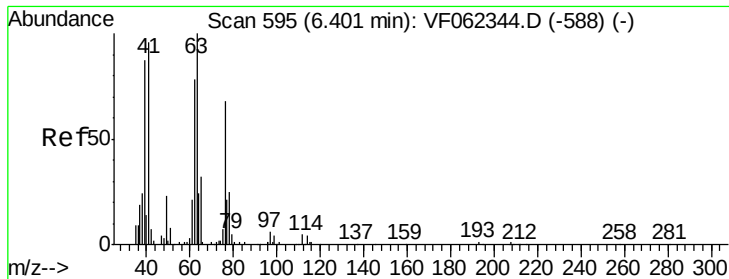
95 91.8 0.0 189.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VF0

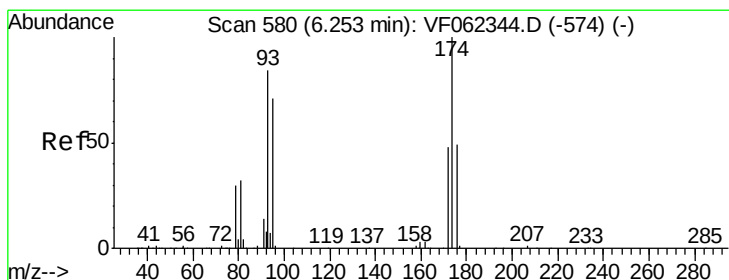
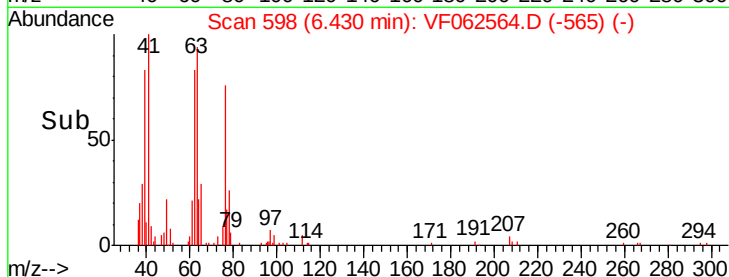
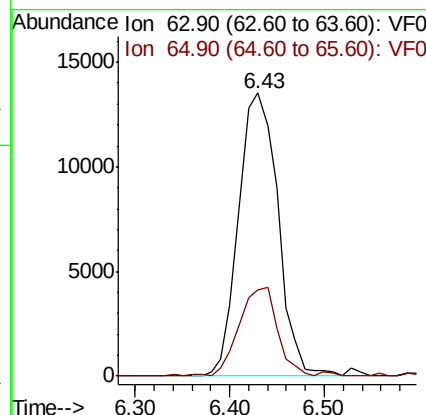
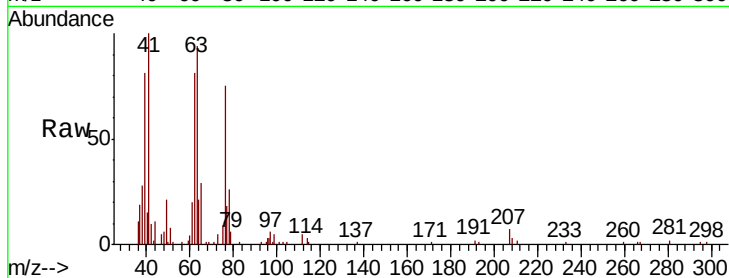




#45
 1,2-Dichloropropane
 Concen: 22.673 ug/l
 RT: 6.43 min Scan# 598
 Delta R.T. 0.03 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

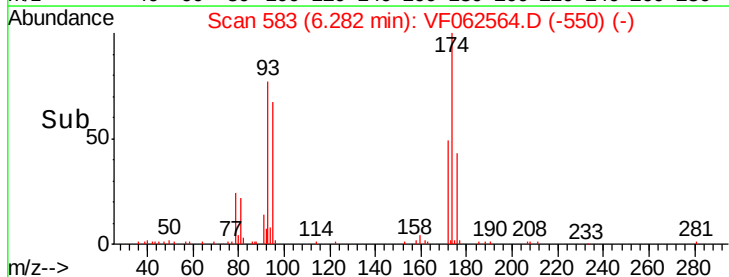
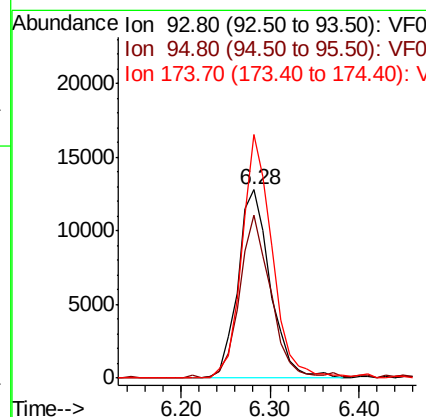
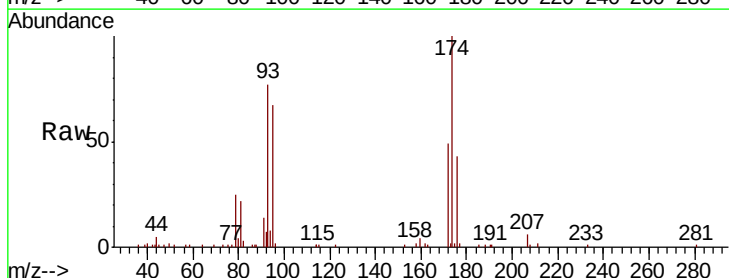
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0513SBS02

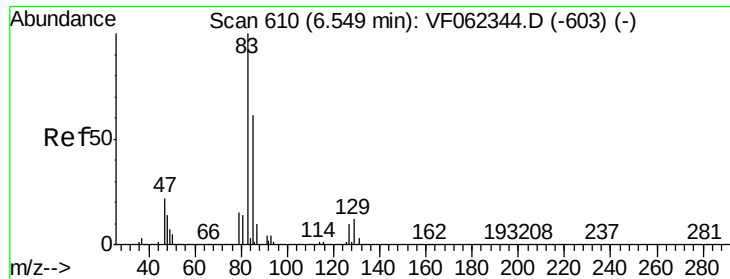
Tot Ion: 63 Resp: 39178
 Ion Ratio Lower Upper
 63 100
 65 30.6 25.6 38.4



#46
 Dibromomethane
 Concen: 22.614 ug/l
 RT: 6.28 min Scan# 583
 Delta R.T. 0.03 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

Tgt Ion: 93 Resp: 32399
 Ion Ratio Lower Upper
 93 100
 95 82.8 68.4 102.6
 174 119.9 99.6 149.4





#47

Bromodichloromethane

Concen: 23.258 ug/l

RT: 6.58 min Scan# 613

Delta R.T. 0.03 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

VF0513SBS02

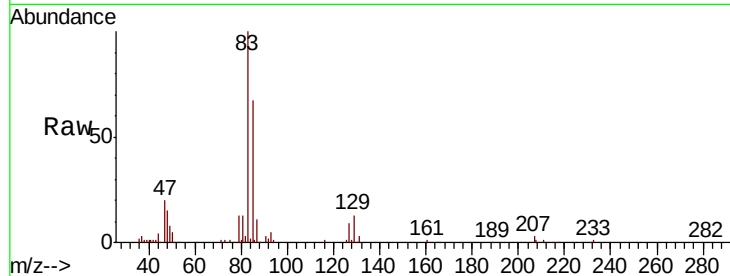
Tot Ion: 83 Resp: 83309

Ion Ratio Lower Upper

83 100

85 66.8 49.1 73.7

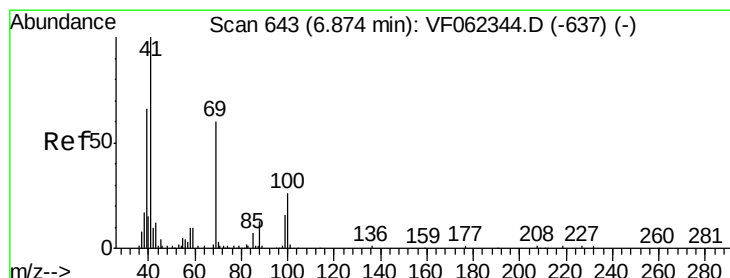
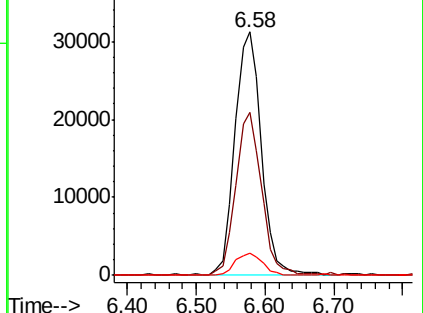
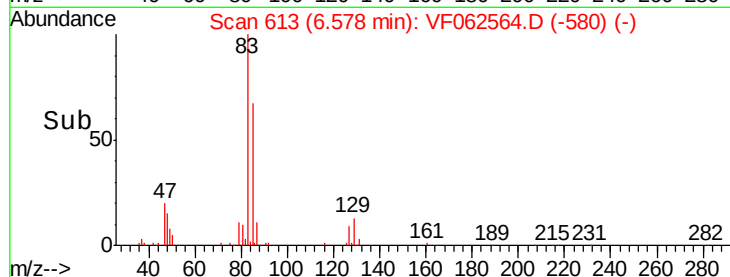
127 9.3 7.8 11.8



Abundance Ion 82.90 (82.60 to 83.60): VF0

Ion 84.90 (84.60 to 85.60): VF0

Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 20.096 ug/l

RT: 6.89 min Scan# 645

Delta R.T. 0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

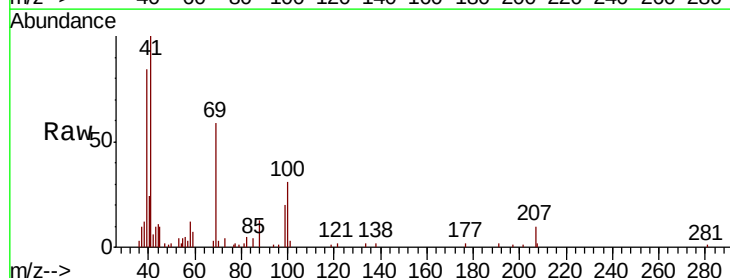
Tgt Ion: 41 Resp: 22379

Ion Ratio Lower Upper

41 100

69 60.8 48.6 72.8

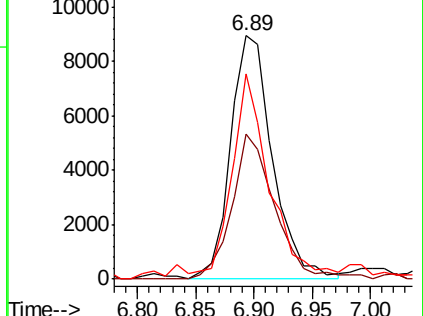
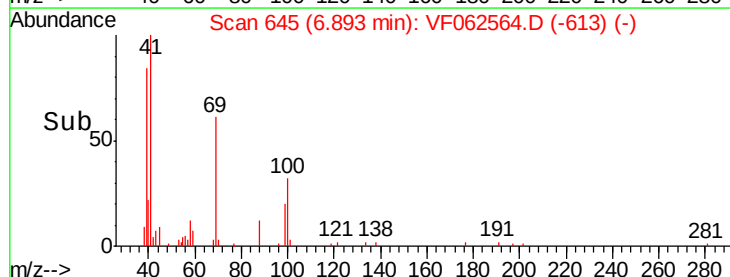
39 72.6 56.1 84.1

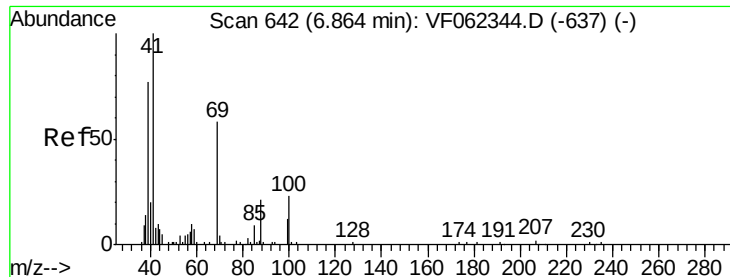


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 317.278 ug/l

RT: 6.88 min Scan# 644

Delta R.T. 0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

VF0513SBS02

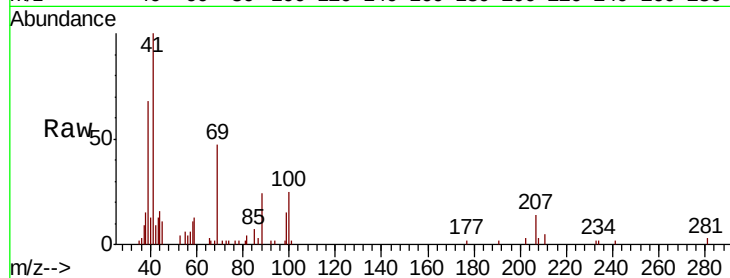
Tot Ion: 88 Resp: 3736

Ion Ratio Lower Upper

88 100

43 90.9 55.6 83.4#

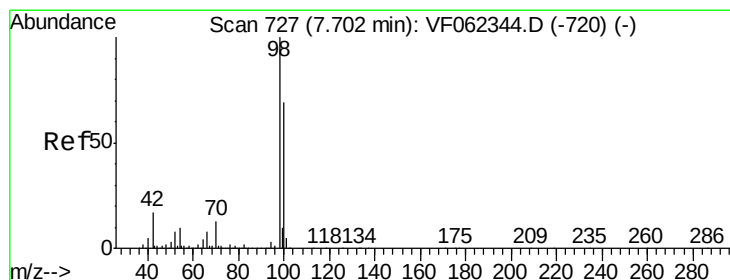
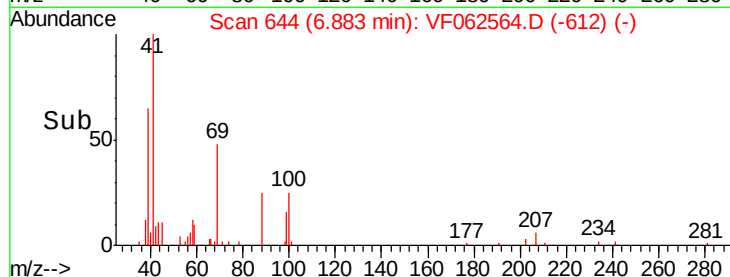
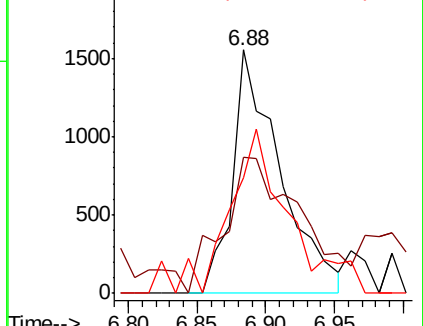
58 83.3 52.8 79.2#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 46.140 ug/l

RT: 7.73 min Scan# 730

Delta R.T. 0.03 min

Lab File: VF062564.D

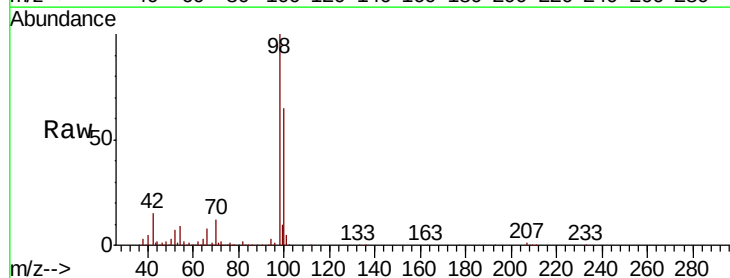
Acq: 14 May 2019 3:07

Tgt Ion: 98 Resp: 358851

Ion Ratio Lower Upper

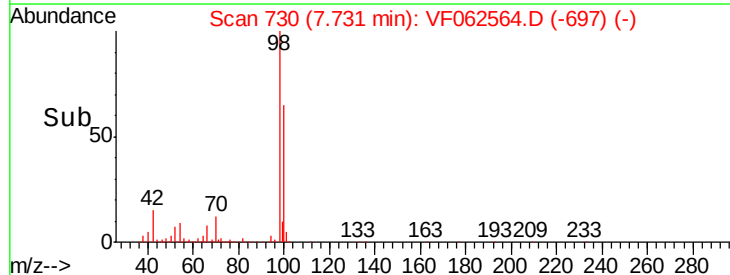
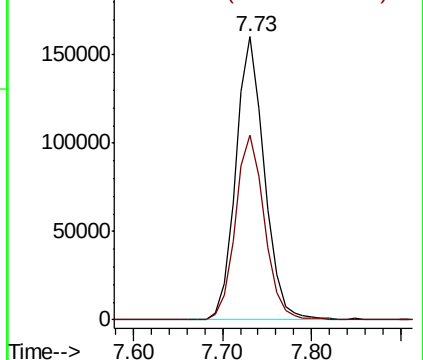
98 100

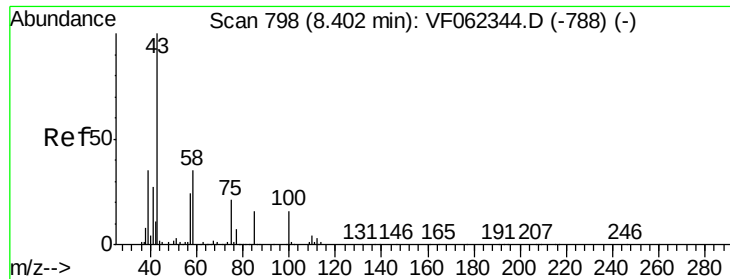
100 66.7 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 107.663 ug/l

RT: 8.42 min Scan# 800

Delta R.T. 0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

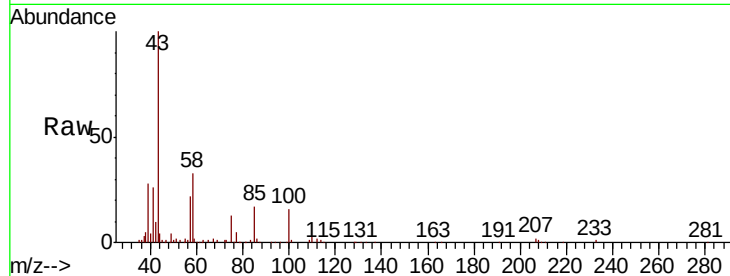
VF0513SBS02

Tot Ion: 43 Resp: 128555

Ion Ratio Lower Upper

43 100

58 34.1 27.8 41.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

60000

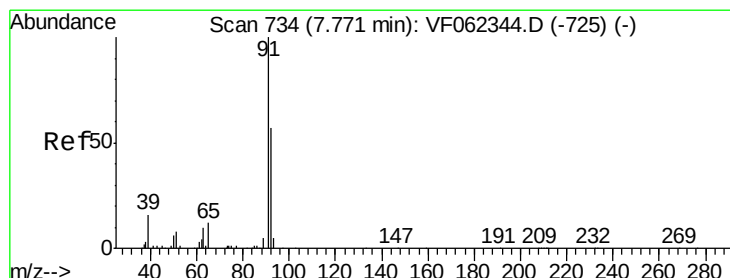
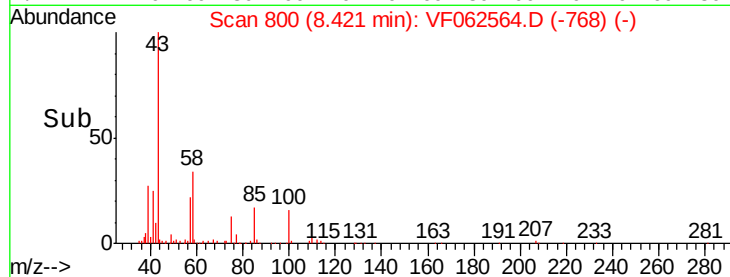
40000

20000

0

8.30 8.40 8.50 8.60

Time-->



#52

Toluene

Concen: 22.423 ug/l

RT: 7.80 min Scan# 737

Delta R.T. 0.03 min

Lab File: VF062564.D

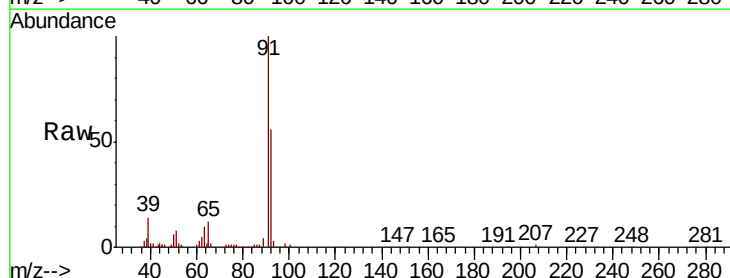
Acq: 14 May 2019 3:07

Tgt Ion: 92 Resp: 105532

Ion Ratio Lower Upper

92 100

91 168.3 138.7 208.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

80000

60000

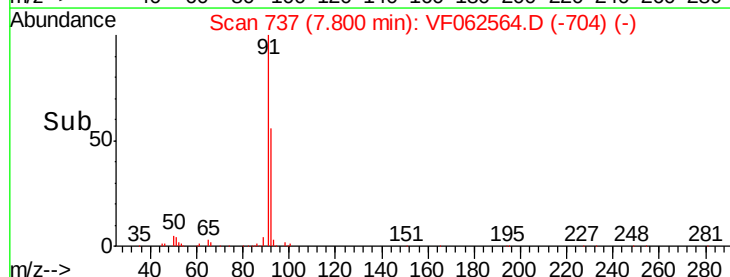
40000

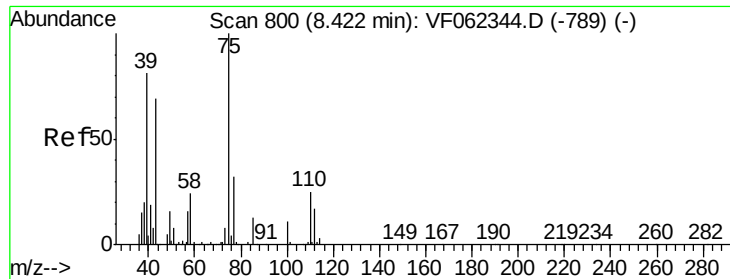
20000

0

7.70 7.80 7.90

Time-->





#53

t-1,3-Dichloropropene

Concen: 21.368 ug/l

RT: 8.44 min Scan# 802

Delta R.T. 0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

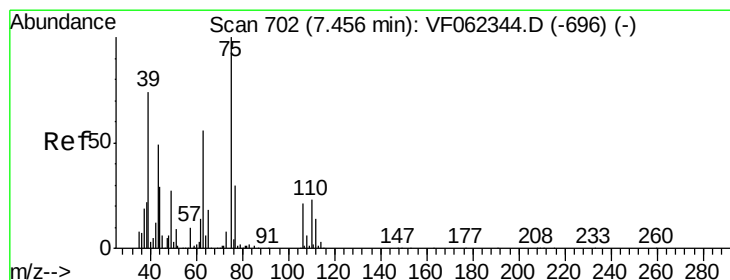
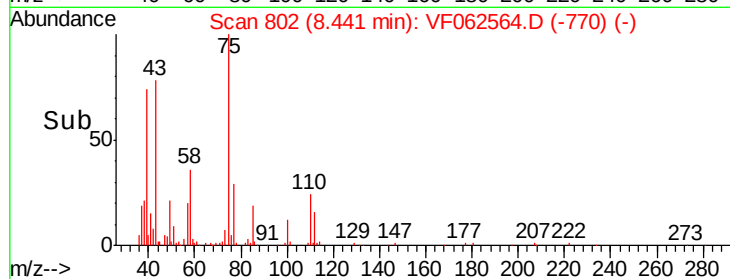
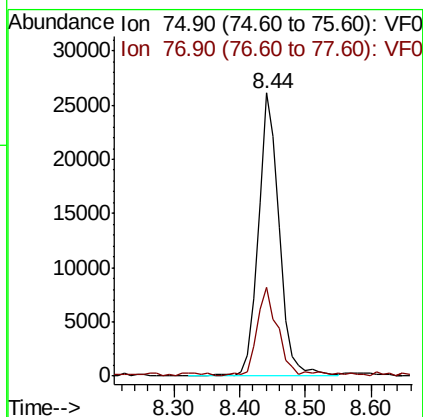
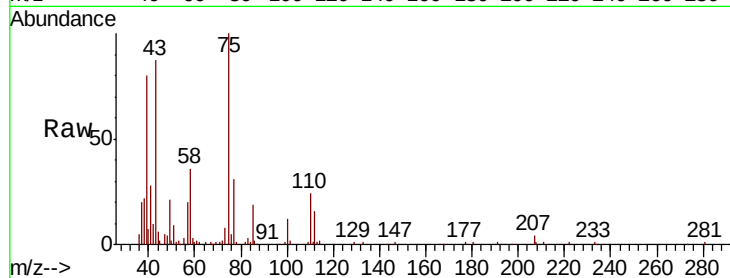
VF0513SBS02

Tot Ion: 75 Resp: 57889

Ion Ratio Lower Upper

75 100

77 30.3 25.4 38.0



#54

cis-1,3-Dichloropropene

Concen: 22.387 ug/l

RT: 7.48 min Scan# 705

Delta R.T. 0.03 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

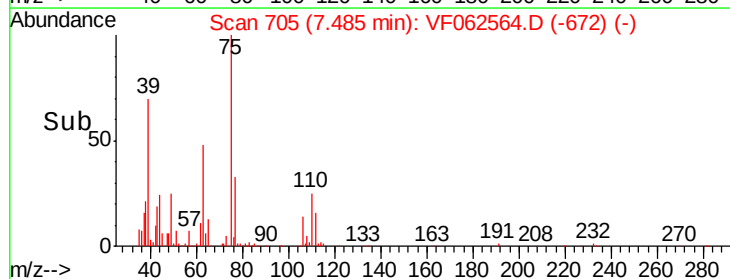
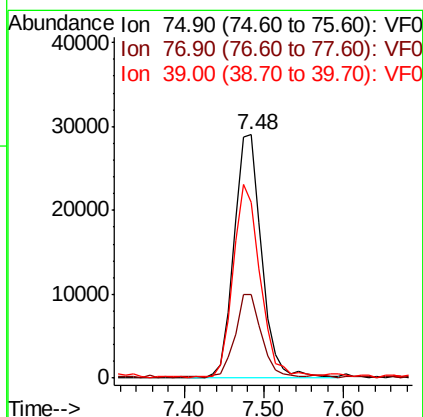
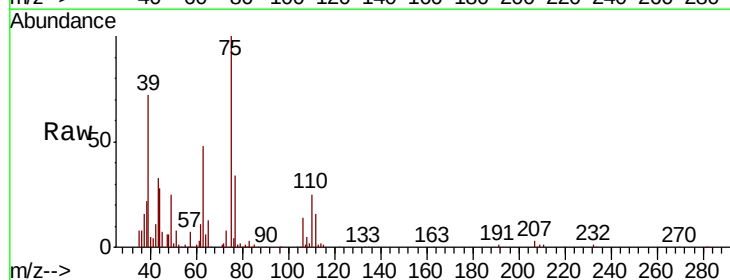
Tgt Ion: 75 Resp: 70587

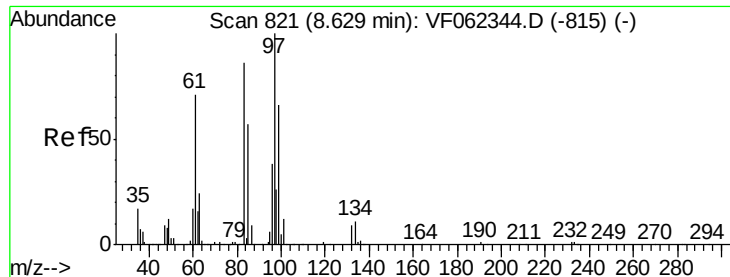
Ion Ratio Lower Upper

75 100

77 34.2 24.0 36.0

39 72.0 58.7 88.1





#55

1,1,2-Trichloroethane

Concen: 22.202 ug/l

RT: 8.66 min Scan# 824

Delta R.T. 0.03 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

VF0513SBS02

Tot Ion: 97 Resp: 33170

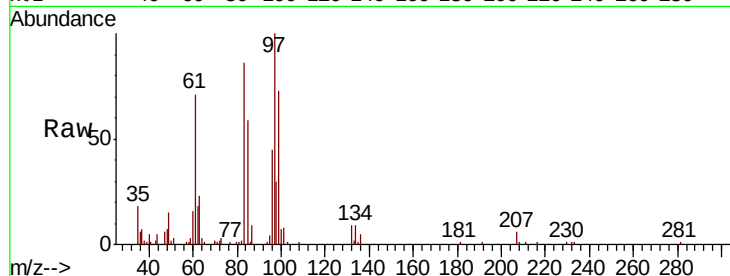
Ion Ratio Lower Upper

97 100

83 85.6 68.5 102.7

85 59.4 45.4 68.2

99 73.0 52.7 79.1

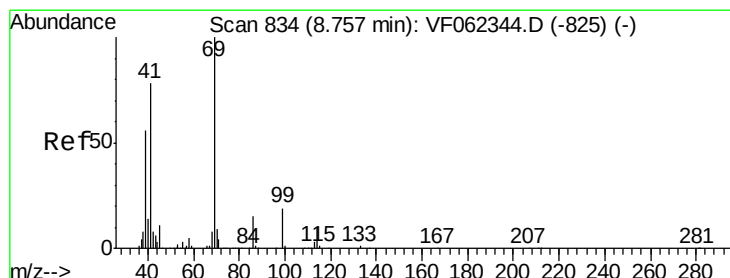
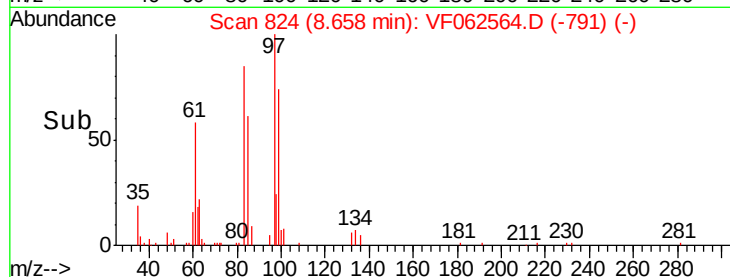
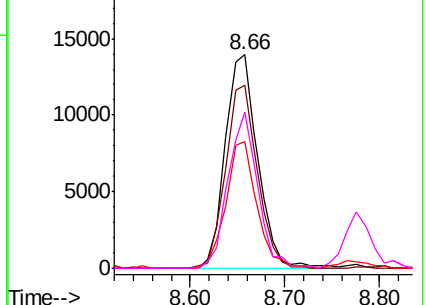


Abundance Ion 96.90 (96.60 to 97.60): VF0

Ion 82.90 (82.60 to 83.60): VF0

Ion 84.90 (84.60 to 85.60): VF0

Ion 98.90 (98.60 to 99.60): VF0



#56

Ethyl methacrylate

Concen: 20.780 ug/l

RT: 8.78 min Scan# 836

Delta R.T. 0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

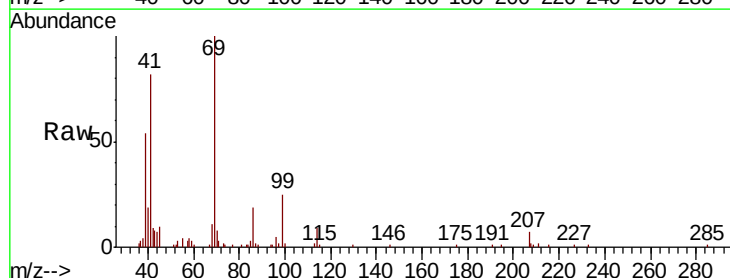
Tgt Ion: 69 Resp: 32772

Ion Ratio Lower Upper

69 100

41 81.1 66.3 99.5

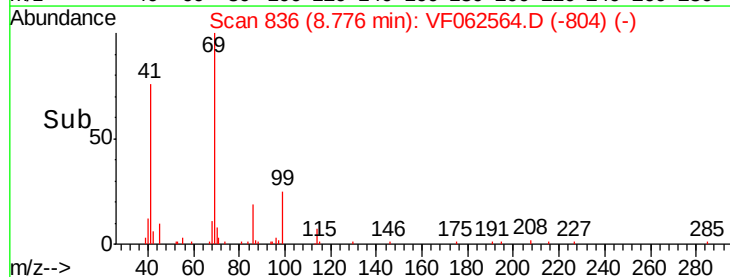
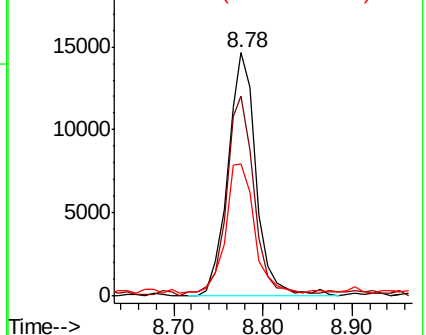
39 54.3 50.1 75.1

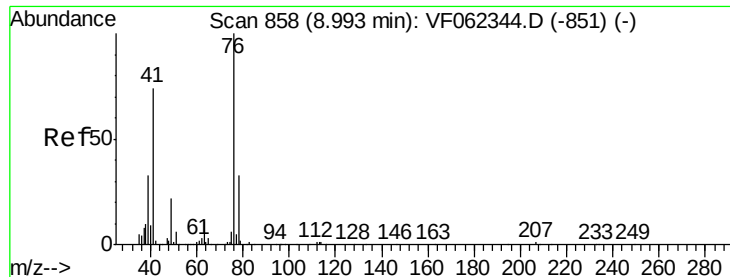


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 24.139 ug/l

RT: 9.01 min Scan# 860

Delta R.T. 0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

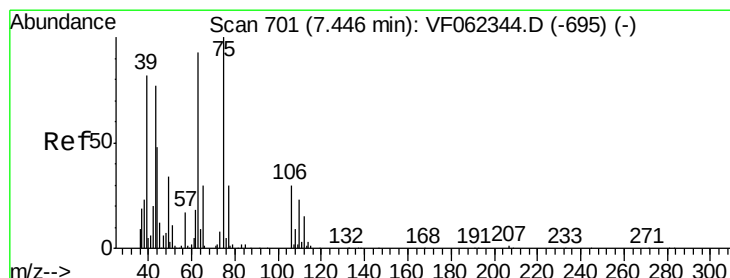
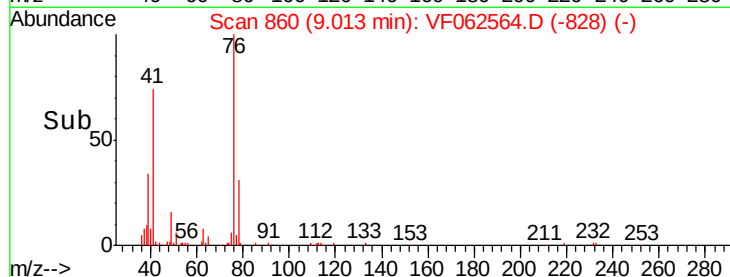
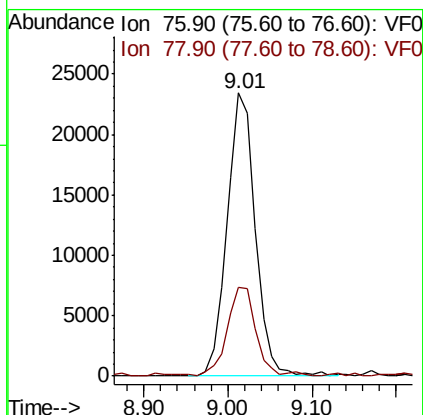
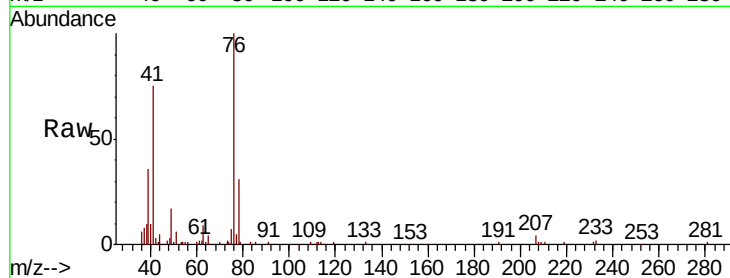
VF0513SBS02

Tot Ion: 76 Resp: 54476

Ion Ratio Lower Upper

76 100

78 32.4 26.4 39.6



#58

2-Chloroethyl Vinyl ether

Concen: 105.084 ug/l

RT: 7.46 min Scan# 703

Delta R.T. 0.02 min

Lab File: VF062564.D

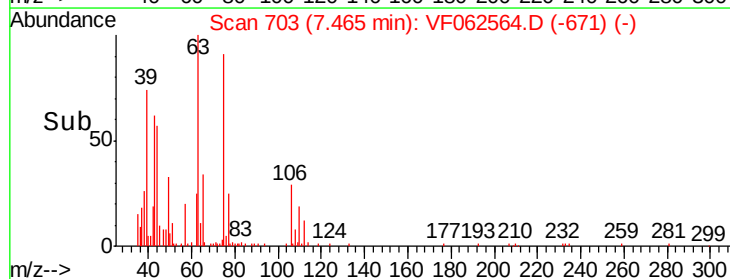
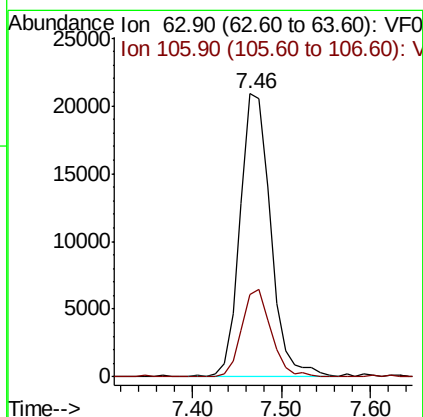
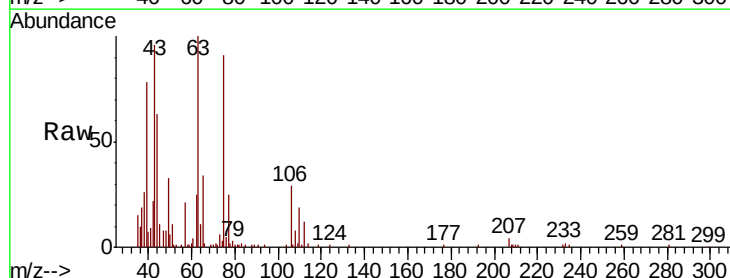
Acq: 14 May 2019 3:07

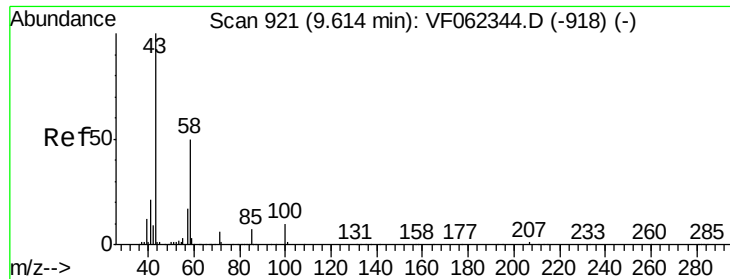
Tgt Ion: 63 Resp: 49825

Ion Ratio Lower Upper

63 100

106 29.6 25.8 38.8

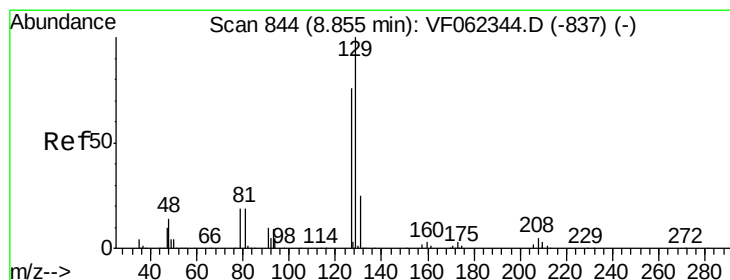
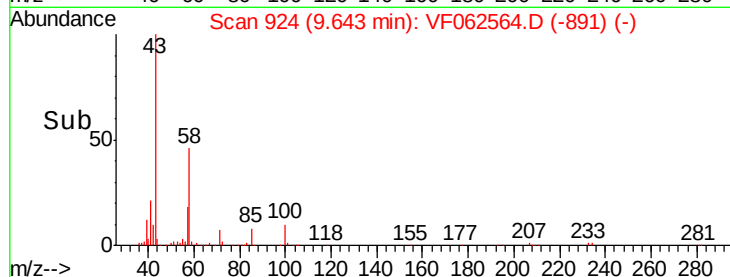
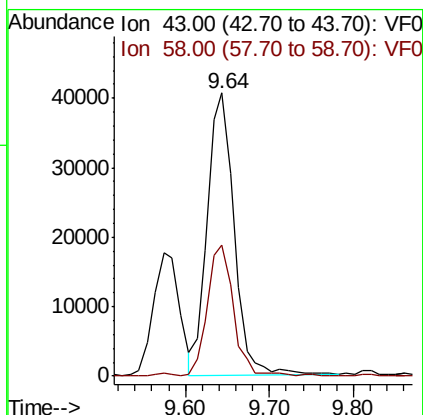
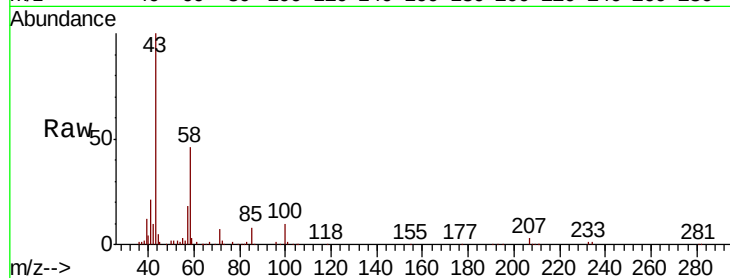




#59
2-Hexanone
Concen: 109.236 ug/l
RT: 9.64 min Scan# 924
Delta R.T. 0.03 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

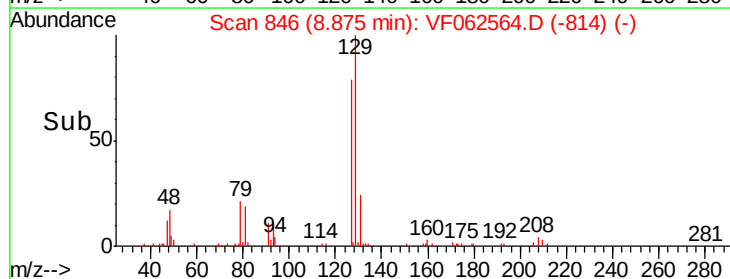
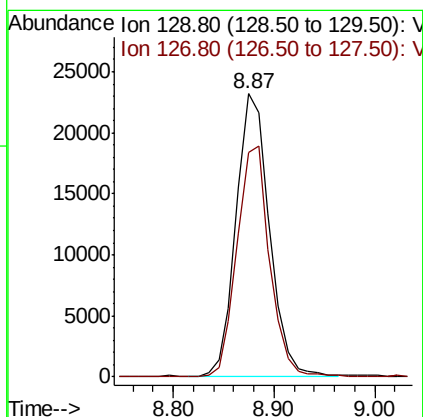
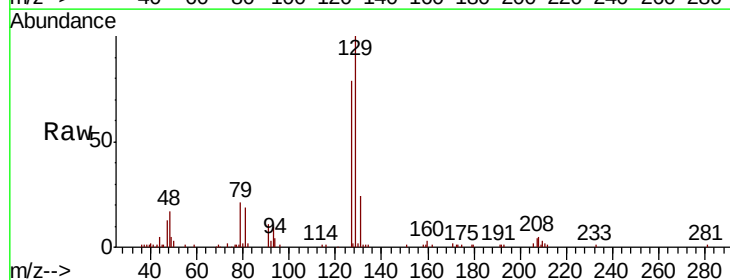
Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS02

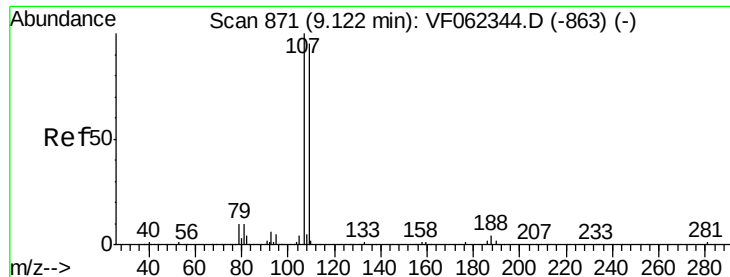
Tot Ion: 43 Resp: 90208
Ion Ratio Lower Upper
43 100
58 45.5 24.3 73.0



#60
Dibromochloromethane
Concen: 21.909 ug/l
RT: 8.87 min Scan# 846
Delta R.T. 0.02 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Tgt Ion: 129 Resp: 53536
Ion Ratio Lower Upper
129 100
127 80.0 38.5 115.3





#61

1,2-Dibromoethane

Concen: 20.577 ug/l

RT: 9.15 min Scan# 874

Delta R.T. 0.03 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

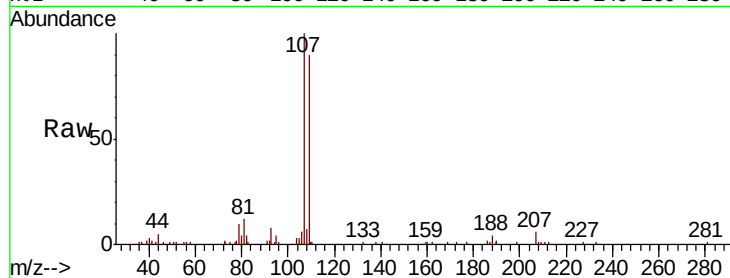
VF0513SBS02

Tot Ion:107 Resp: 36132

Ion Ratio Lower Upper

107 100

109 98.6 75.2 112.8



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

9.15

15000

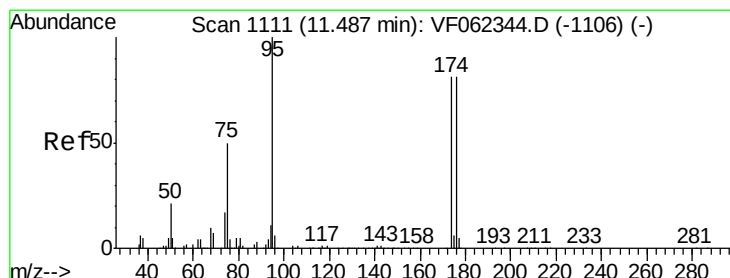
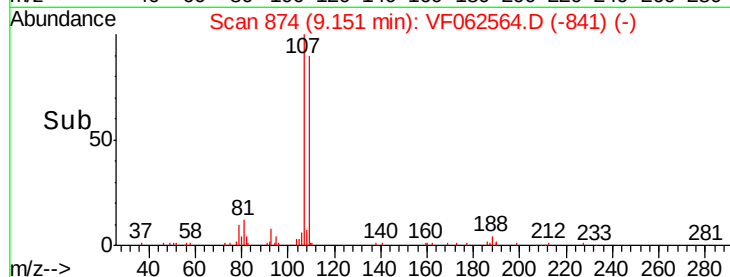
10000

5000

0

Time-->

9.05 9.10 9.15 9.20 9.25



#62

4-Bromofluorobenzene

Concen: 46.183 ug/l

RT: 11.51 min Scan# 1113

Delta R.T. 0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

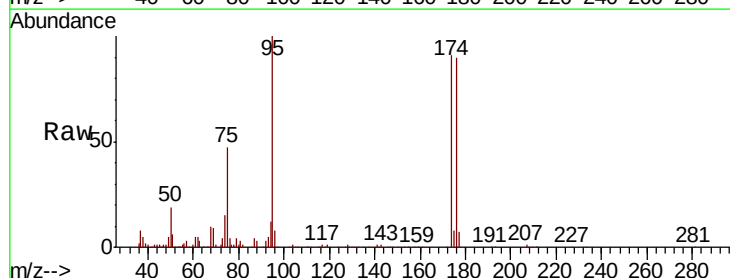
Tgt Ion: 95 Resp: 162053

Ion Ratio Lower Upper

95 100

174 99.1 0.0 191.8

176 98.4 0.0 193.2



Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.51

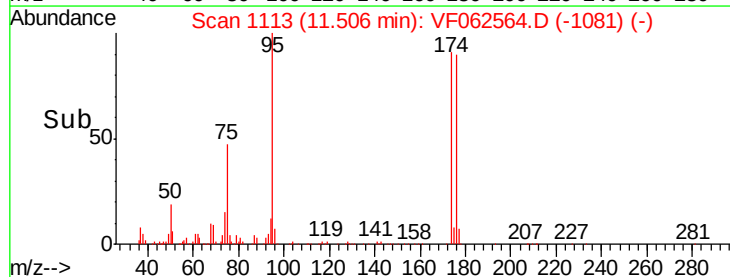
100000

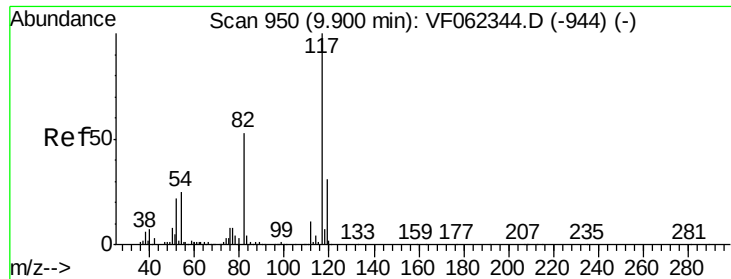
50000

0

Time-->

11.40 11.50 11.60

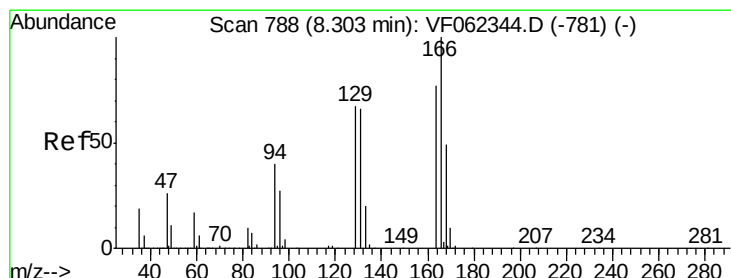
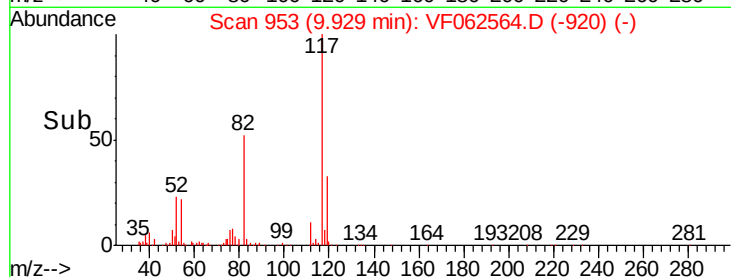
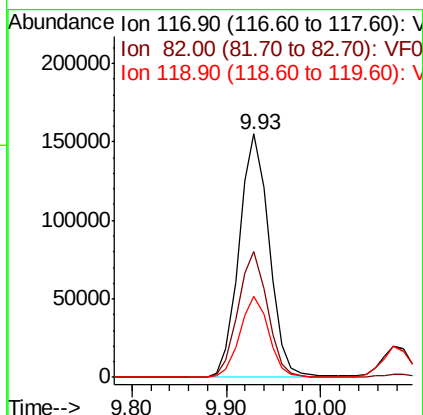
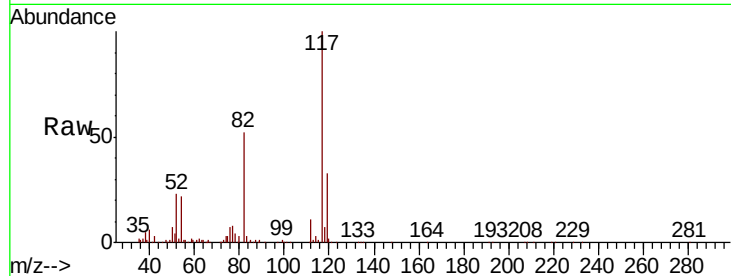




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.93 min Scan# 953
Delta R.T. 0.03 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

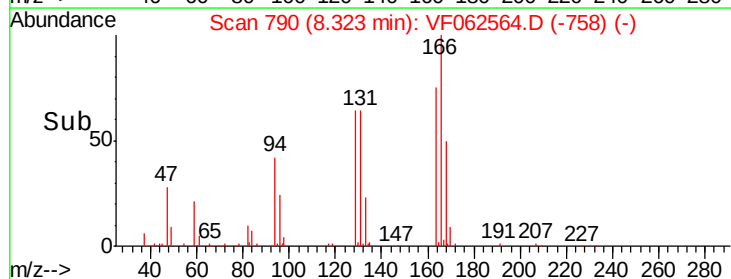
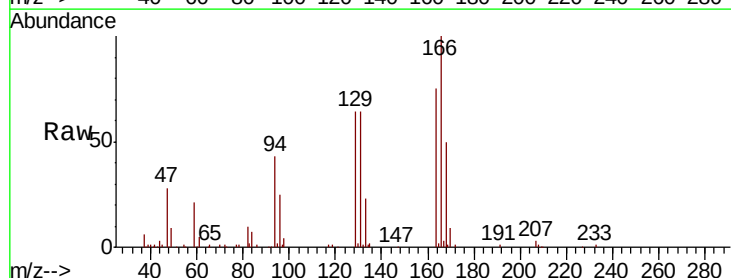
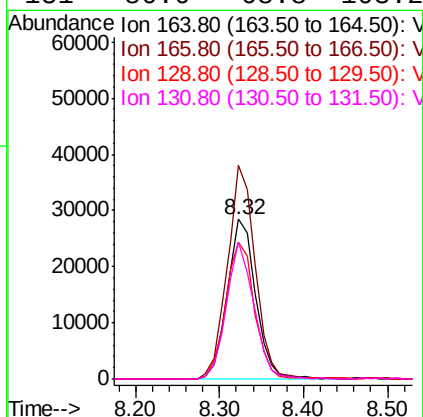
Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS02

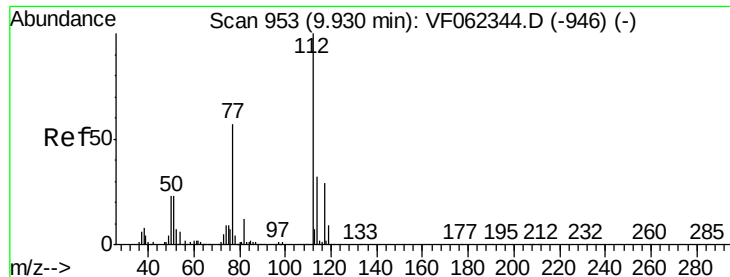
Tot Ion	Ratio	Lower	Upper
117	100		
82	51.9	42.2	63.2
119	33.2	25.0	37.4



#64
Tetrachloroethene
Concen: 23.925 ug/l
RT: 8.32 min Scan# 790
Delta R.T. 0.02 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Tgt Ion	Ratio	Lower	Upper
164	100		
166	133.6	104.2	156.4
129	85.6	69.6	104.4
131	86.0	68.8	103.2

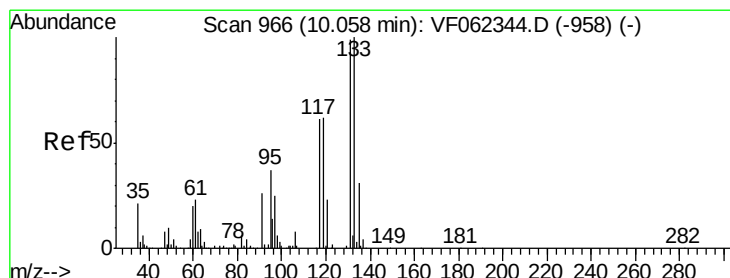
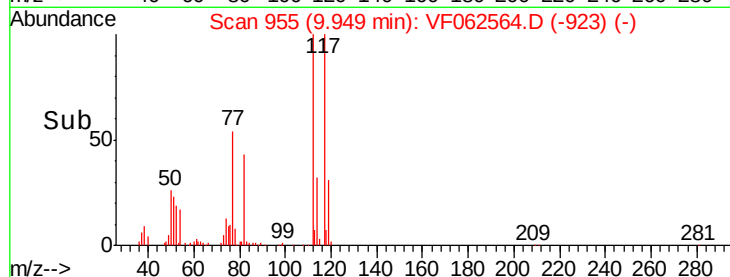
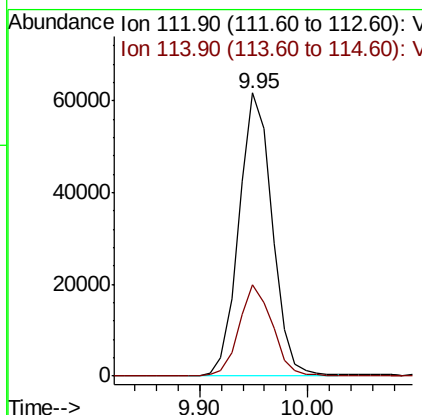
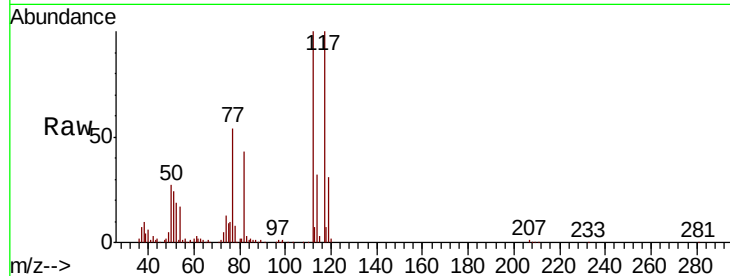




#65
Chlorobenzene
Concen: 23.430 ug/l
RT: 9.95 min Scan# 955
Delta R.T. 0.02 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

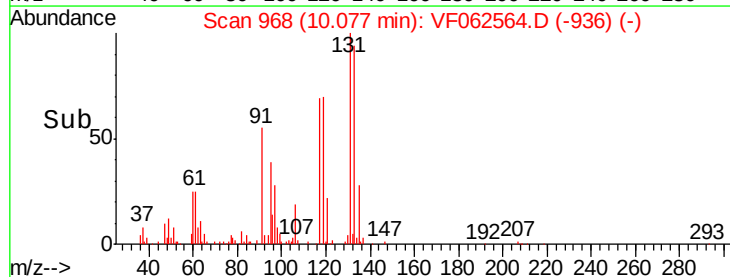
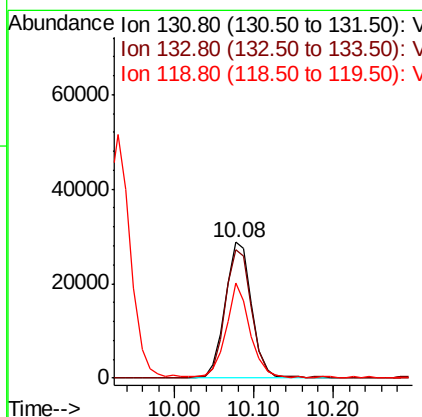
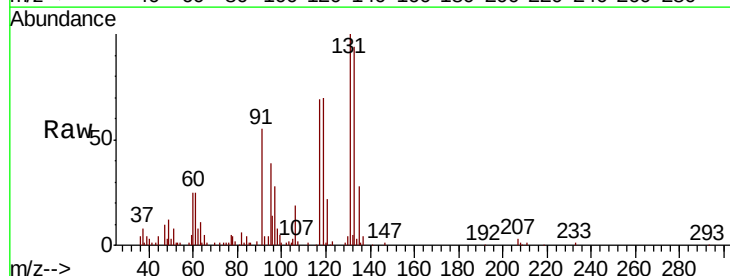
Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS02

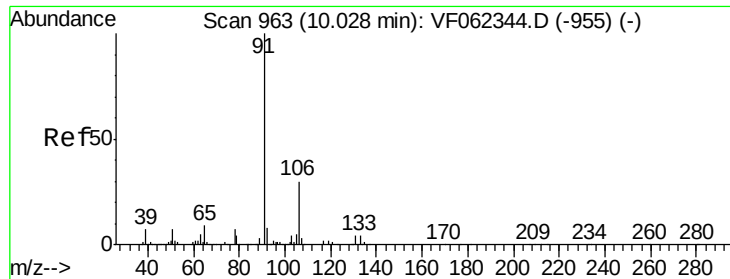
Tot Ion:112 Resp: 132777
Ion Ratio Lower Upper
112 100
114 32.1 25.4 38.0



#66
1,1,1,2-Tetrachloroethane
Concen: 23.485 ug/l
RT: 10.08 min Scan# 968
Delta R.T. 0.02 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Tgt Ion:131 Resp: 67139
Ion Ratio Lower Upper
131 100
133 95.2 50.2 150.7
119 64.0 31.6 95.0





#67

Ethyl Benzene

Concen: 23.629 ug/l

RT: 10.05 min Scan# 965

Delta R.T. 0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

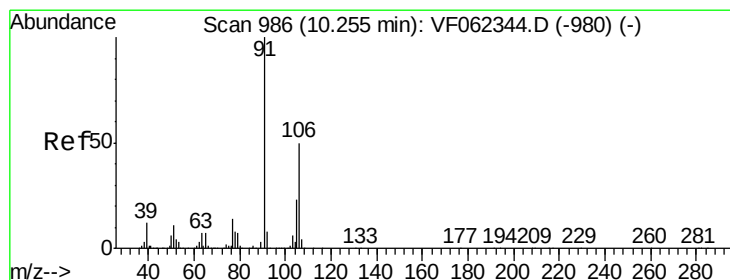
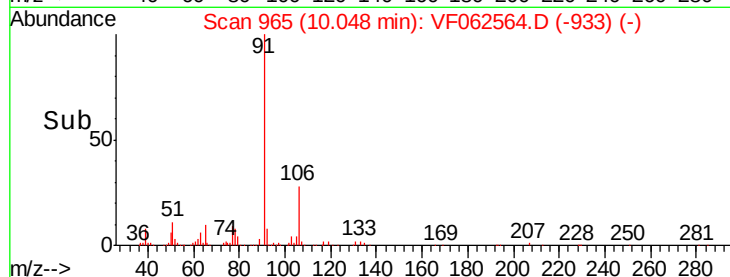
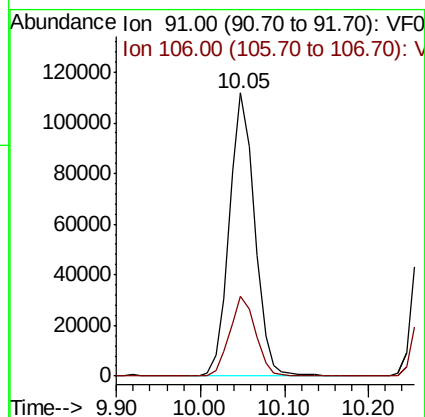
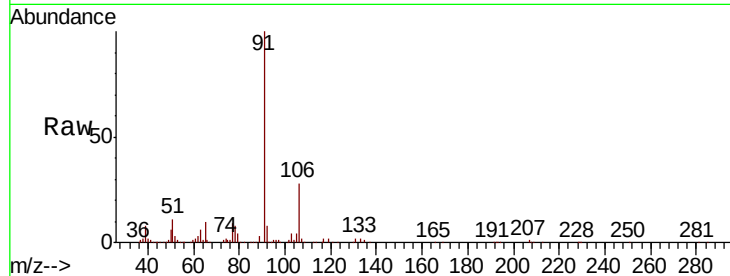
VF0513SBS02

Tot Ion: 91 Resp: 234476

Ion Ratio Lower Upper

91 100

106 28.2 24.1 36.1



#68

m/p-Xylenes

Concen: 46.418 ug/l

RT: 10.27 min Scan# 988

Delta R.T. 0.02 min

Lab File: VF062564.D

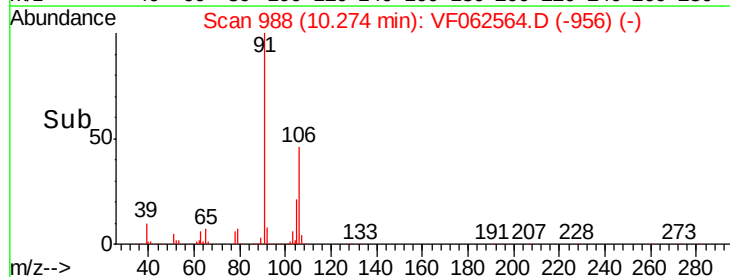
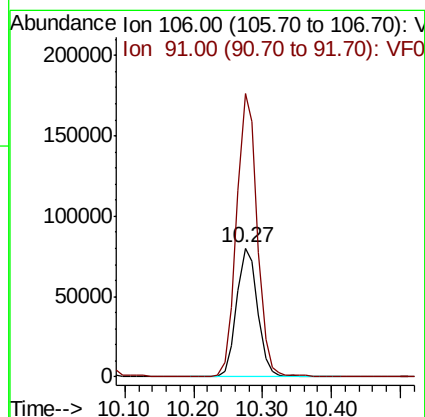
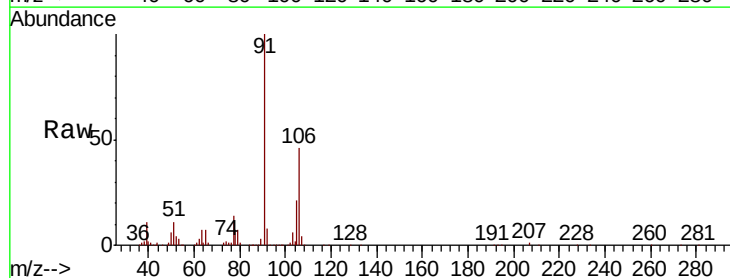
Acq: 14 May 2019 3:07

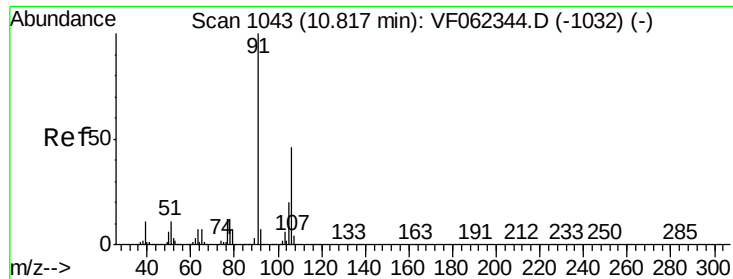
Tgt Ion: 106 Resp: 169952

Ion Ratio Lower Upper

106 100

91 214.9 167.4 251.2

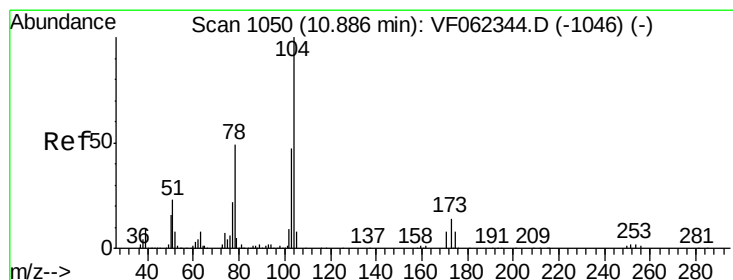
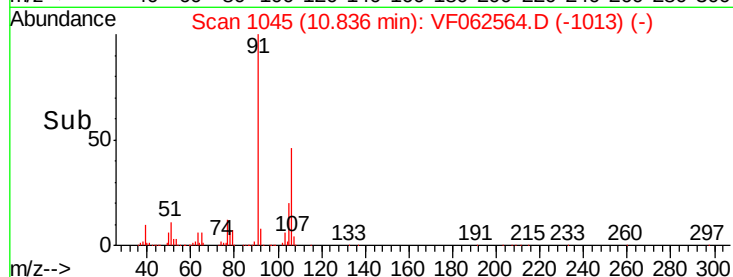
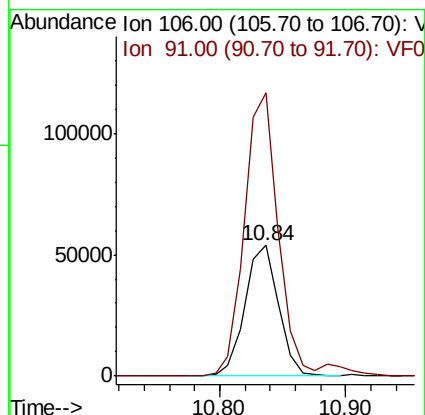
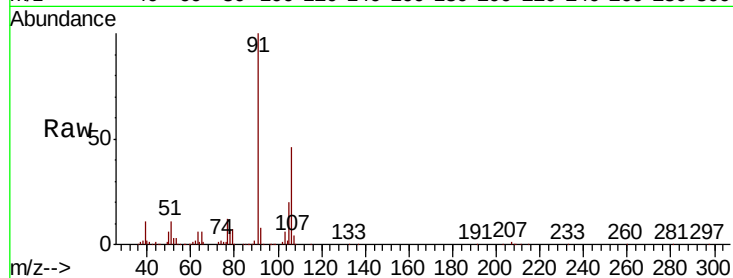




#69
o-Xylene
Concen: 25.227 ug/l
RT: 10.84 min Scan# 1045
Delta R.T. 0.02 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

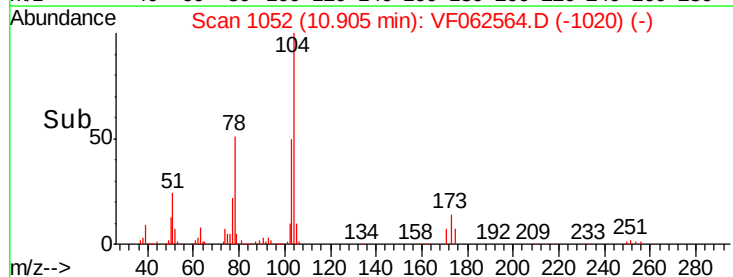
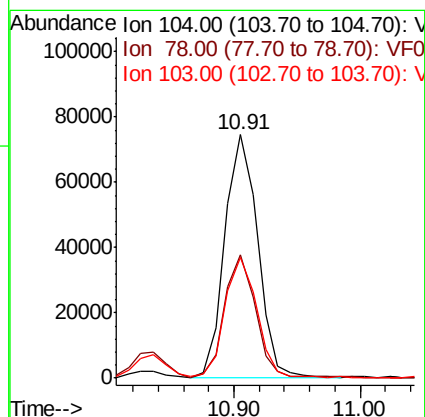
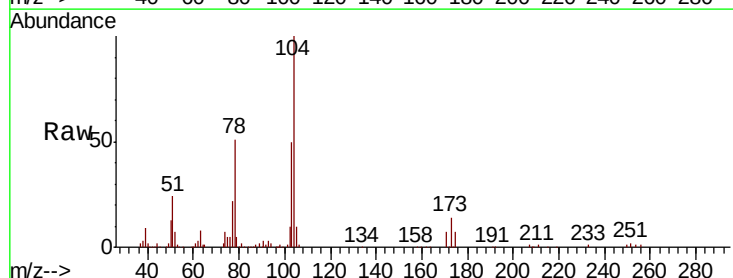
Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS02

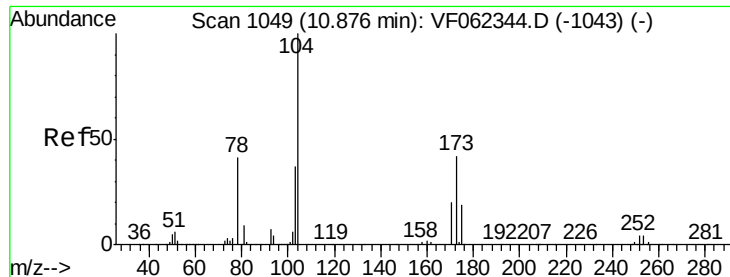
Tot Ion:106 Resp: 99806
Ion Ratio Lower Upper
106 100
91 215.7 111.3 333.8



#70
Styrene
Concen: 22.543 ug/l
RT: 10.91 min Scan# 1052
Delta R.T. 0.02 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Tgt Ion:104 Resp: 133666
Ion Ratio Lower Upper
104 100
78 48.7 39.5 59.3
103 48.9 38.4 57.6





#71

Bromoform

Concen: 20.872 ug/l

RT: 10.90 min Scan# 1051

Delta R.T. 0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

VF0513SBS02

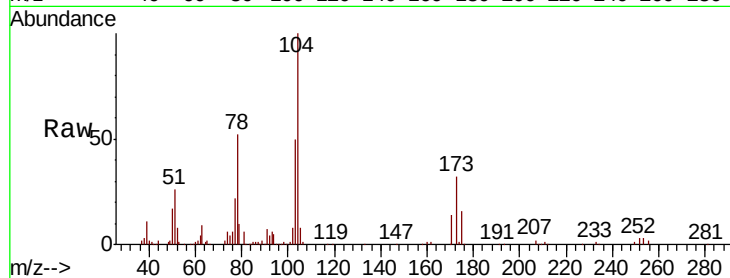
Tot Ion:173 Resp: 32690

Ion Ratio Lower Upper

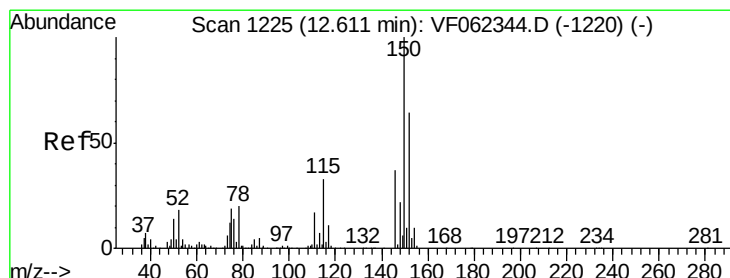
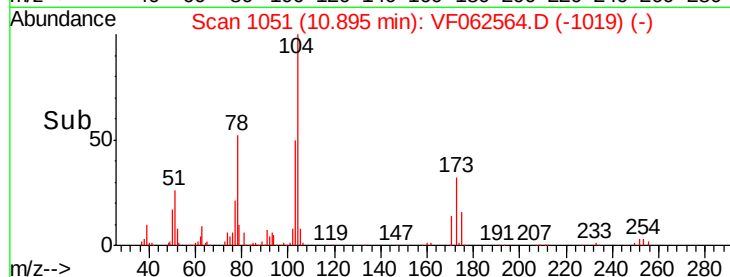
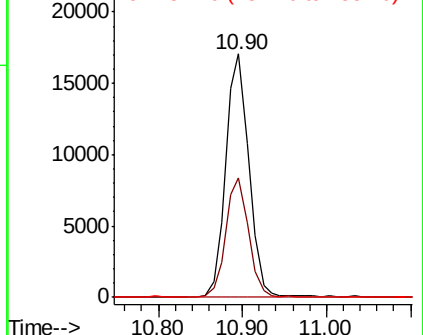
173 100

175 48.1 23.8 71.2

254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1226

Delta R.T. 0.01 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

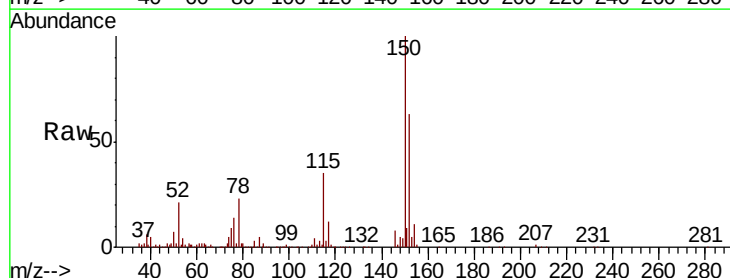
Tgt Ion:152 Resp: 222618

Ion Ratio Lower Upper

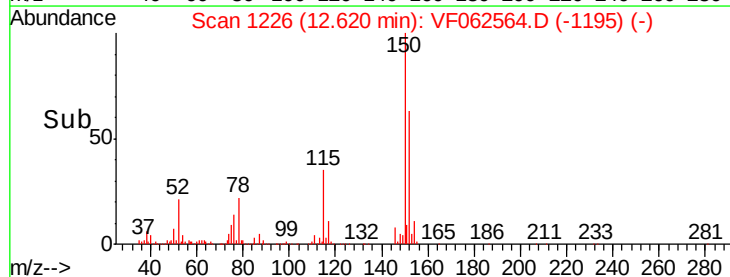
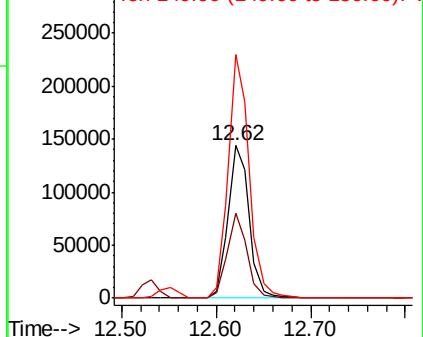
152 100

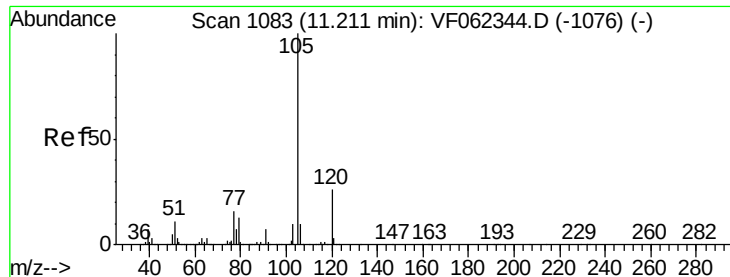
115 52.5 26.4 79.2

150 157.4 0.0 335.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 22.346 ug/l

RT: 11.23 min Scan# 1085

Delta R.T. 0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

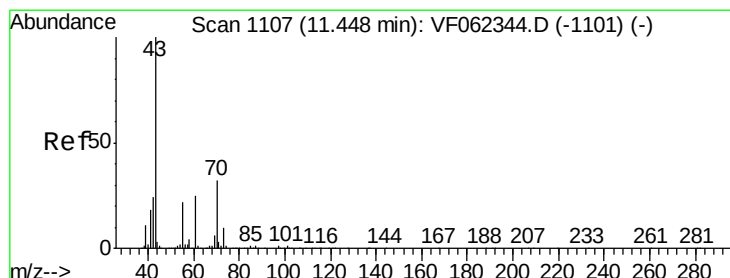
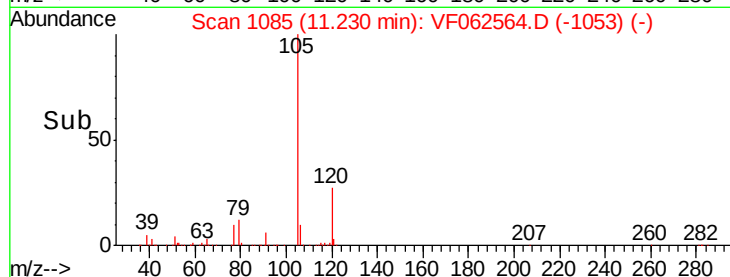
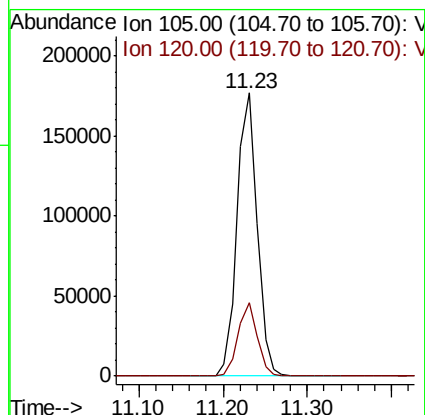
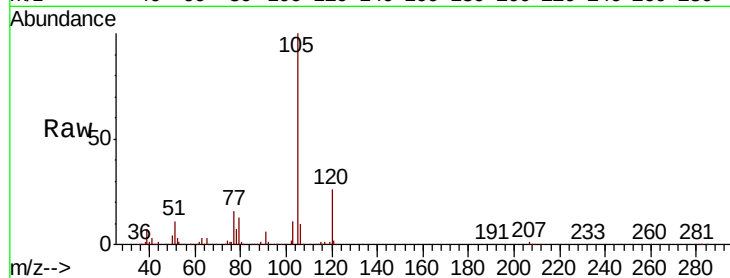
VF0513SBS02

Tot Ion:105 Resp: 294913

Ion Ratio Lower Upper

105 100

120 24.9 12.7 38.0



#74

N-ethyl acetate

Concen: 21.170 ug/l

RT: 11.46 min Scan# 1108

Delta R.T. 0.01 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Tgt Ion: 43 Resp: 59981

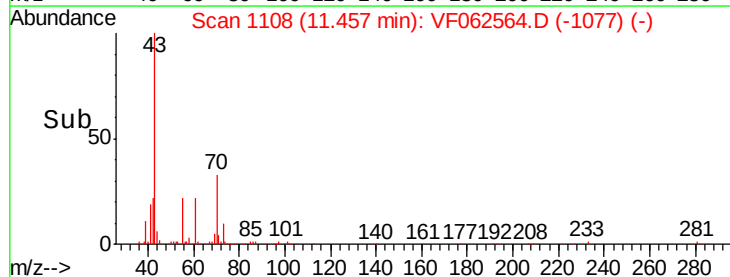
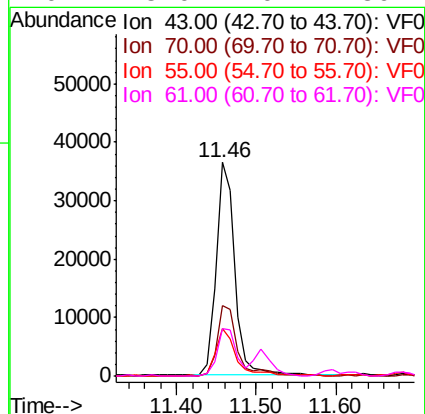
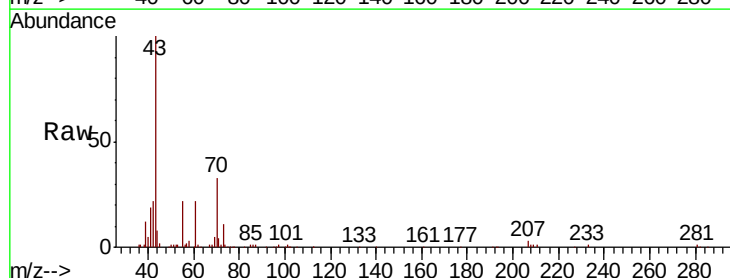
Ion Ratio Lower Upper

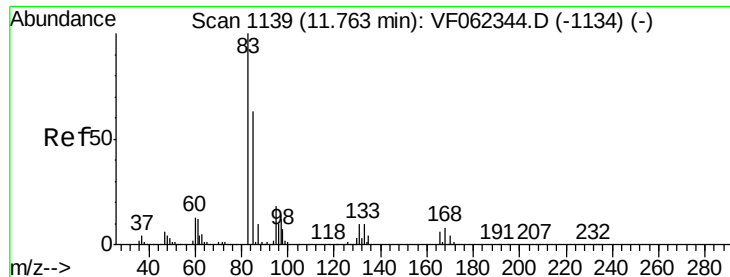
43 100

70 36.5 26.5 39.7

55 25.1 17.8 26.6

61 23.0 20.2 30.2





#75

1,1,2,2-Tetrachloroethane

Concen: 21.997 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. 0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

VF0513SBS02

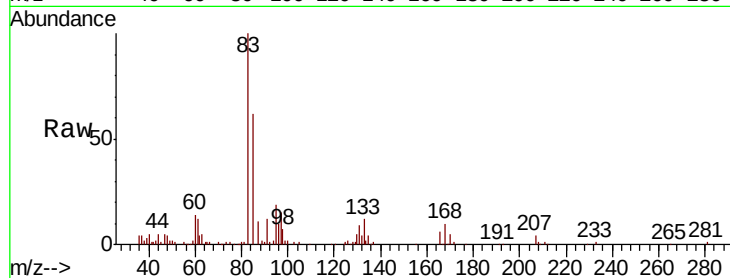
Tot Ion: 83 Resp: 45456

Ion Ratio Lower Upper

83 100

131 10.9 5.8 17.4

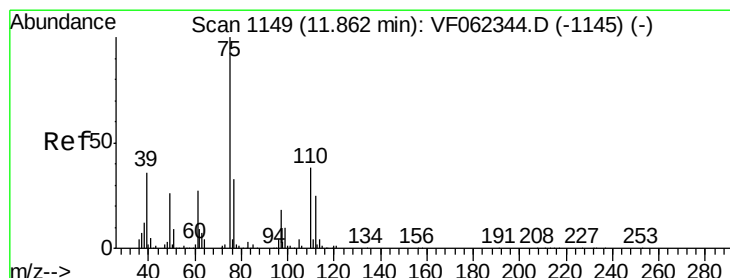
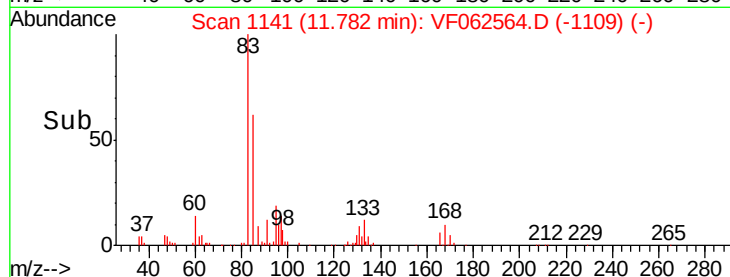
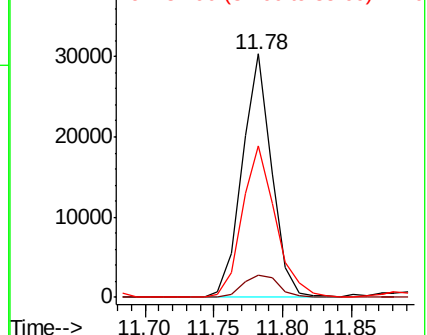
85 70.6 35.3 105.7



Abundance Ion 82.90 (82.60 to 83.60): VF0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VF0



#76

1,2,3-Trichloropropane

Concen: 22.149 ug/l

RT: 11.88 min Scan# 1151

Delta R.T. 0.02 min

Lab File: VF062564.D

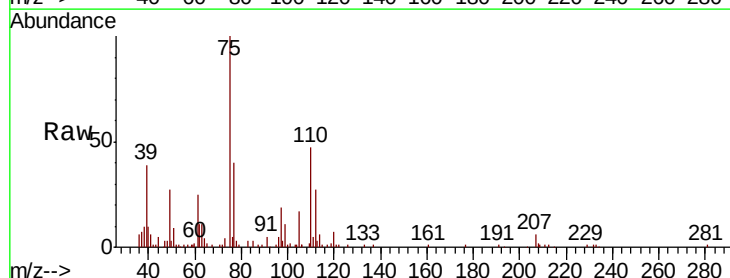
Acq: 14 May 2019 3:07

Tgt Ion: 75 Resp: 34919

Ion Ratio Lower Upper

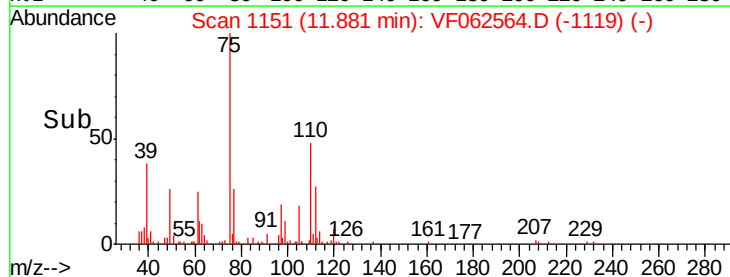
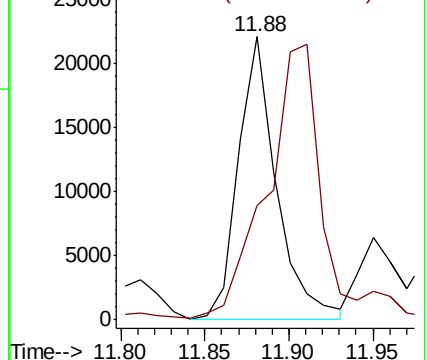
75 100

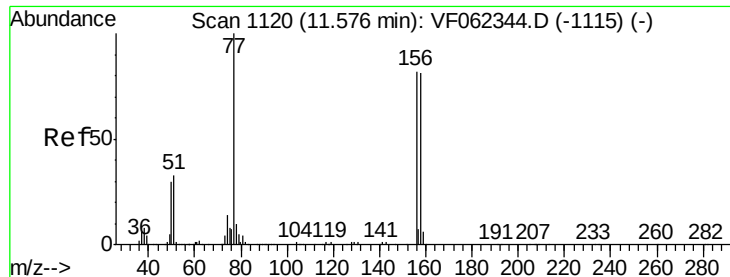
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 22.068 ug/l

RT: 11.60 min Scan# 1122

Delta R.T. 0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

VF0513SBS02

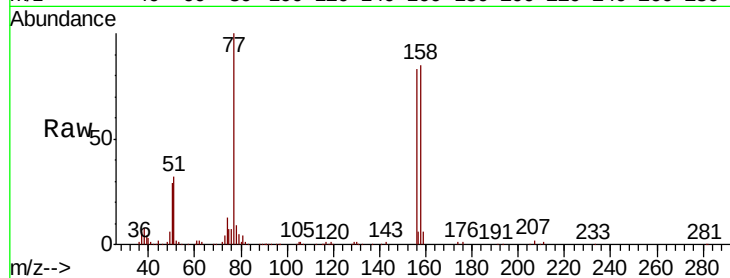
Tot Ion:156 Resp: 76435

Ion Ratio Lower Upper

156 100

77 131.0 64.8 194.3

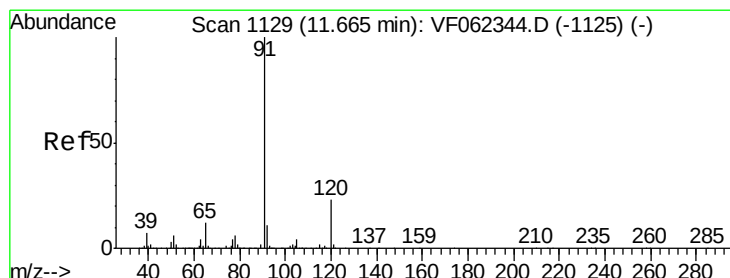
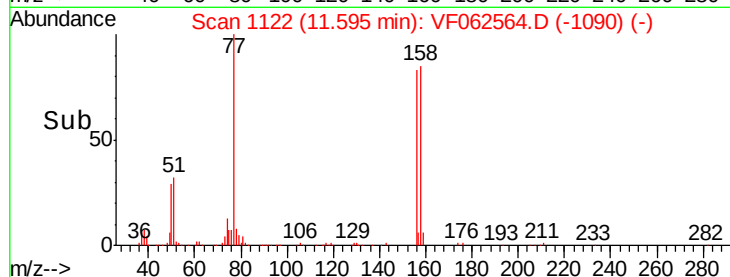
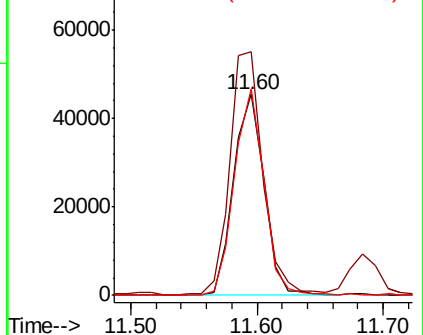
158 100.1 49.1 147.3



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 23.036 ug/l

RT: 11.68 min Scan# 1131

Delta R.T. 0.02 min

Lab File: VF062564.D

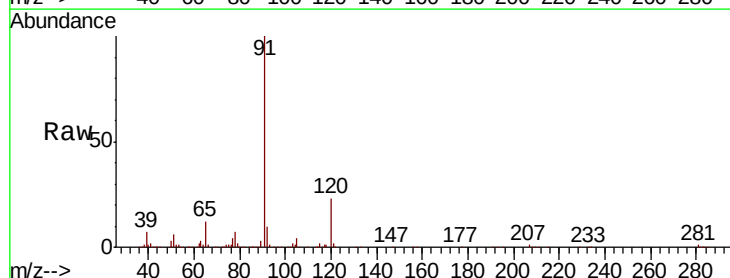
Acq: 14 May 2019 3:07

Tgt Ion: 91 Resp: 323679

Ion Ratio Lower Upper

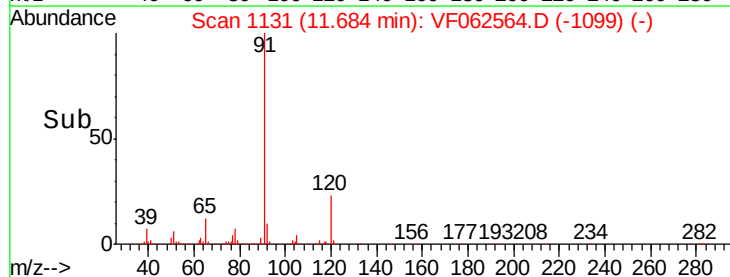
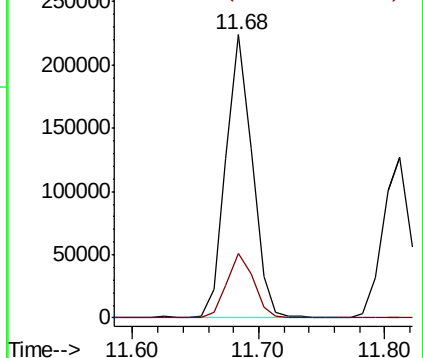
91 100

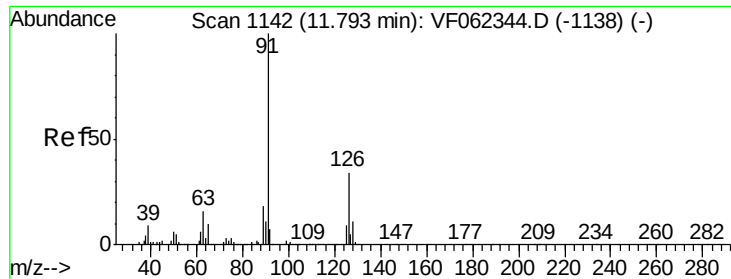
120 23.0 11.9 35.5



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

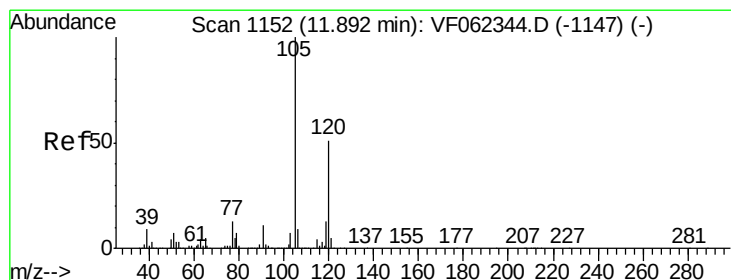
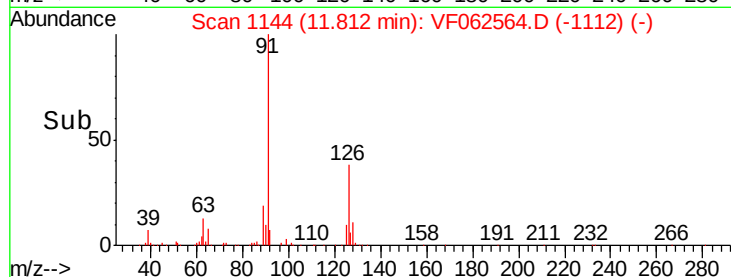
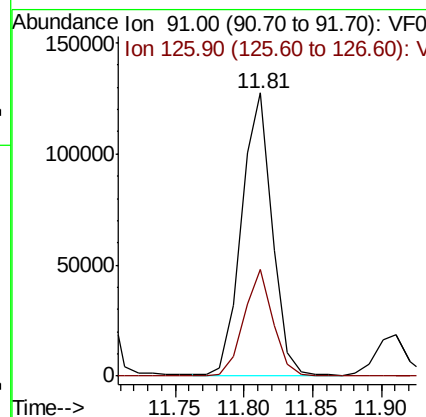
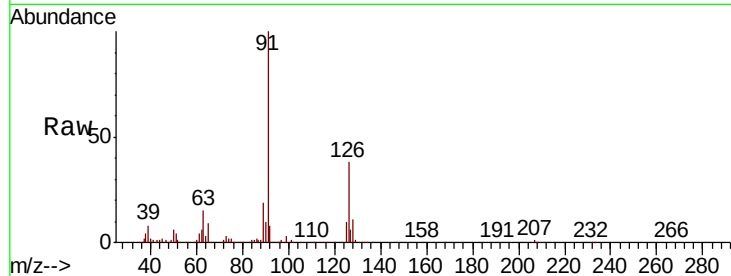




#79
 2-Chlorotoluene
 Concen: 22.365 ug/l
 RT: 11.81 min Scan# 1144
 Delta R.T. 0.02 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

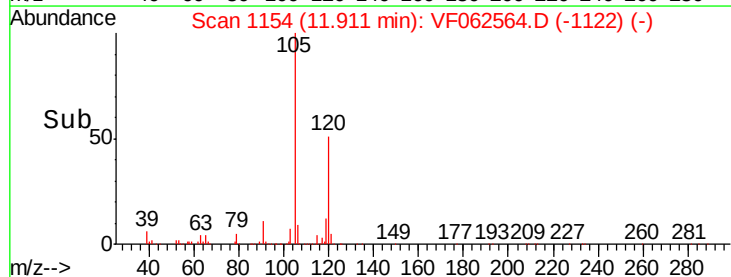
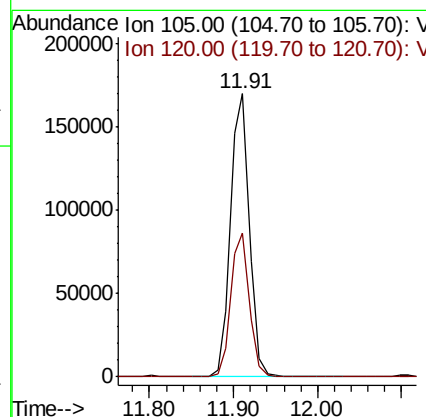
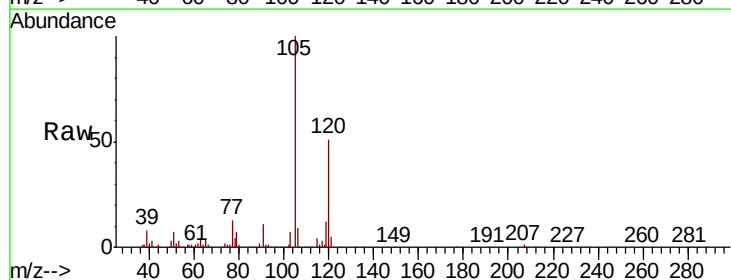
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0513SBS02

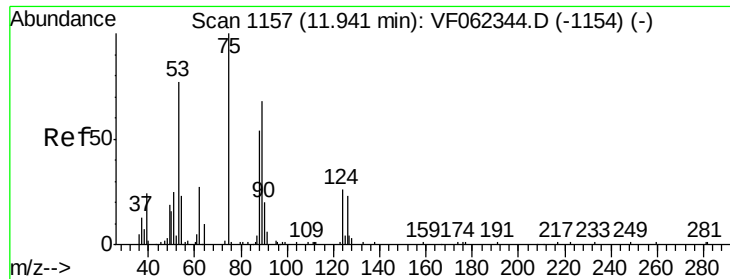
Tot Ion: 91 Resp: 195409
 Ion Ratio Lower Upper
 91 100
 126 36.5 17.8 53.4



#80
 1,3,5-Trimethylbenzene
 Concen: 22.814 ug/l
 RT: 11.91 min Scan# 1154
 Delta R.T. 0.02 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

Tgt Ion: 105 Resp: 263900
 Ion Ratio Lower Upper
 105 100
 120 50.0 24.6 74.0





#81

trans-1,4-Dichloro-2-butene

Concen: 13.609 ug/l

RT: 11.95 min Scan# 1158

Delta R.T. 0.01 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

VF0513SBS02

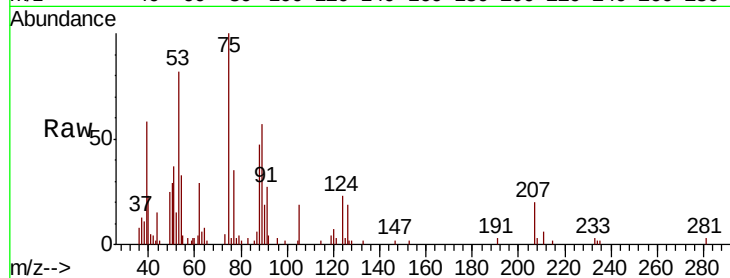
Tot Ion: 75 Resp: 8065

Ion Ratio Lower Upper

75 100

53 111.0 71.9 107.9#

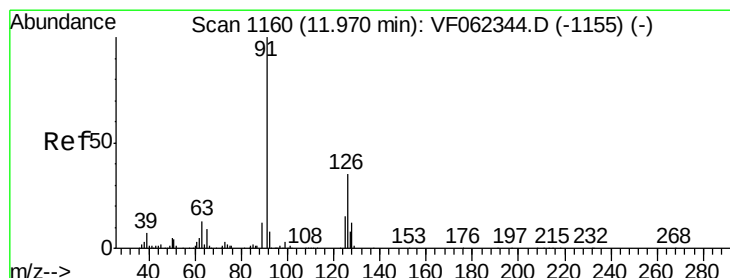
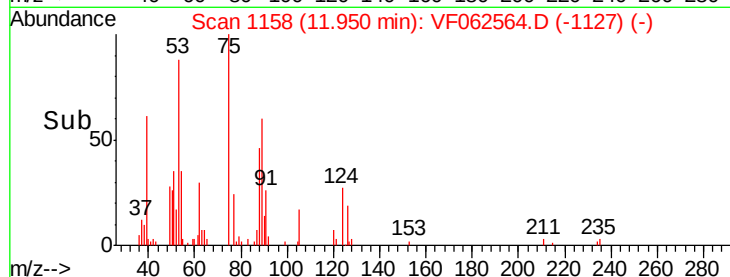
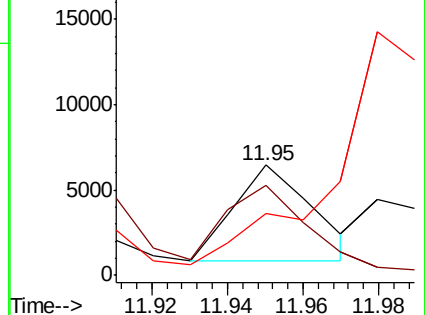
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 88.90 (88.60 to 89.60): VF0



#82

4-Chlorotoluene

Concen: 21.774 ug/l

RT: 11.98 min Scan# 1161

Delta R.T. 0.01 min

Lab File: VF062564.D

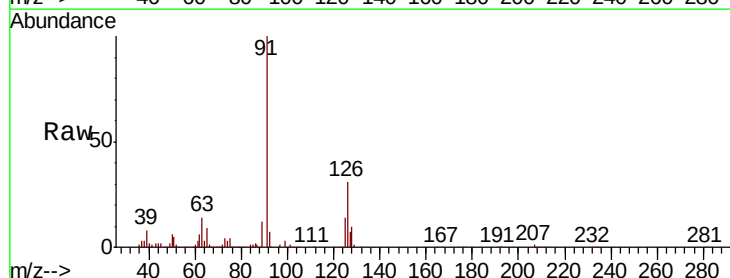
Acq: 14 May 2019 3:07

Tgt Ion: 91 Resp: 187901

Ion Ratio Lower Upper

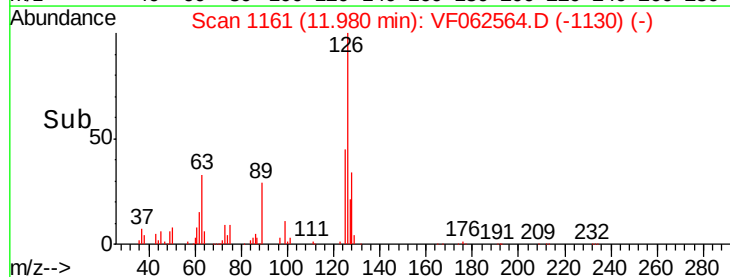
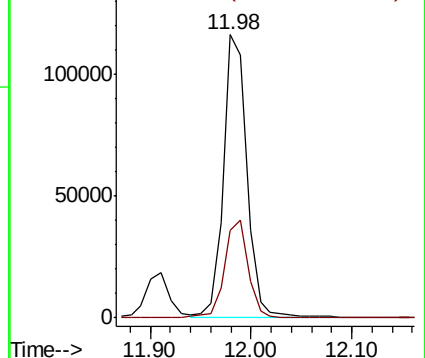
91 100

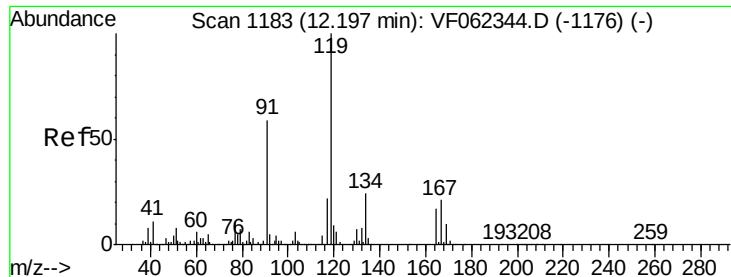
126 35.4 17.7 53.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 125.90 (125.60 to 126.60): V

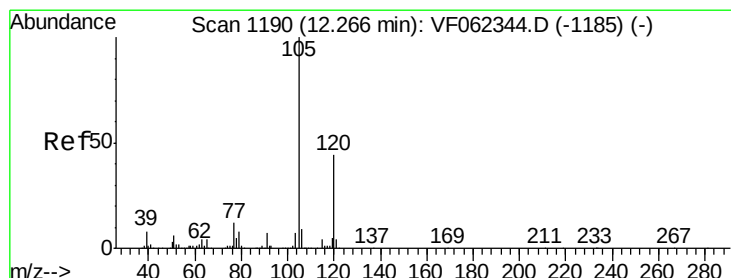
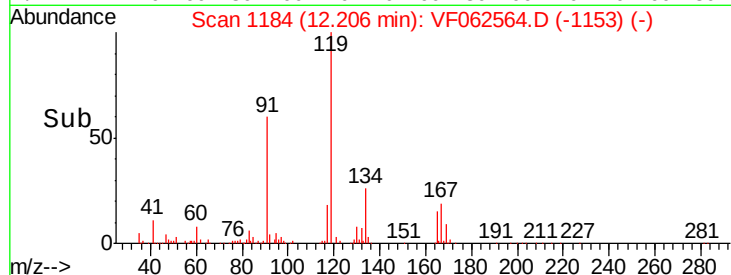
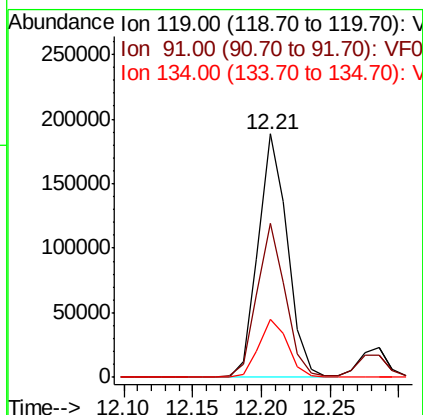
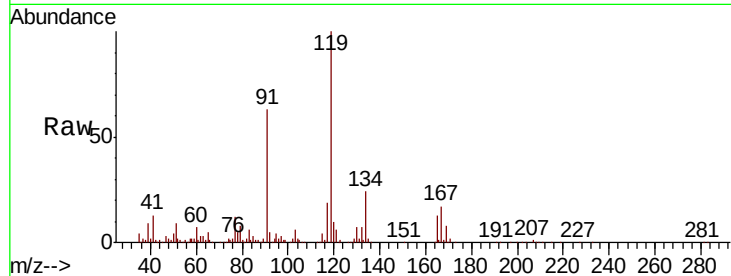




#83
 tert-Butylbenzene
 Concen: 23.102 ug/l
 RT: 12.21 min Scan# 1184
 Delta R.T. 0.01 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

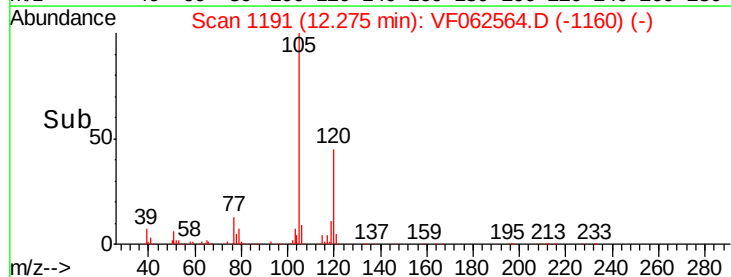
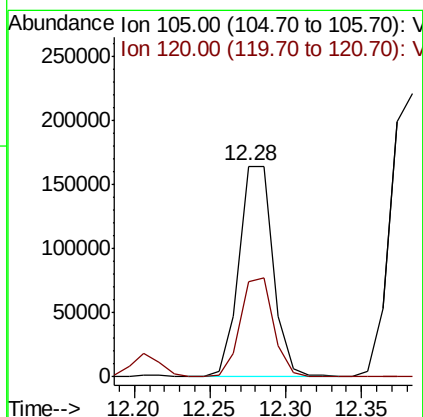
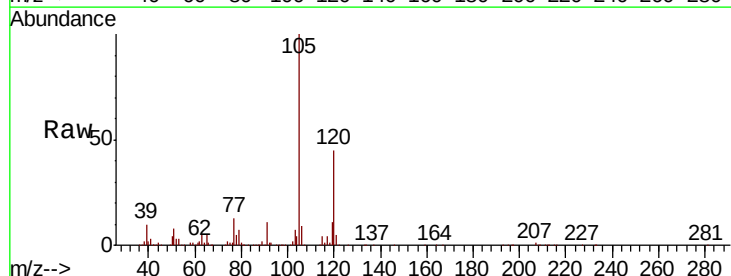
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0513SBS02

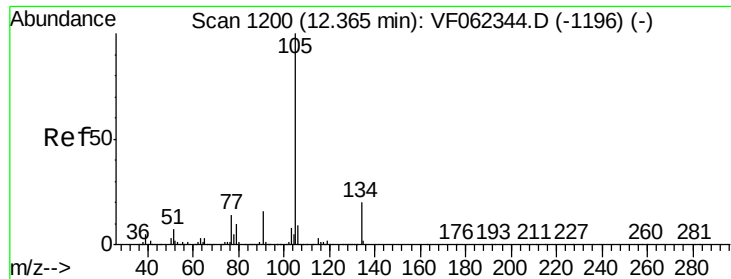
Tot Ion	Ratio	Lower	Upper
119	100		
91	60.5	30.4	91.3
134	23.5	11.9	35.7



#84
 1,2,4-Trimethylbenzene
 Concen: 22.854 ug/l
 RT: 12.28 min Scan# 1191
 Delta R.T. 0.01 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.1	22.6	67.7

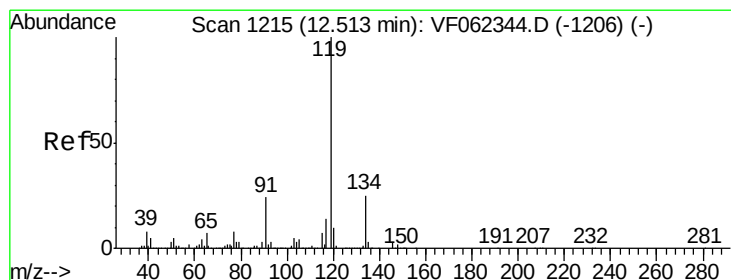
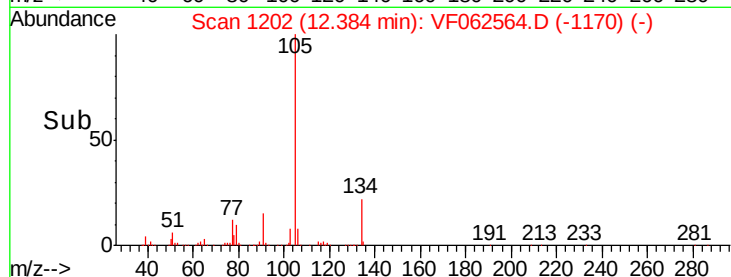
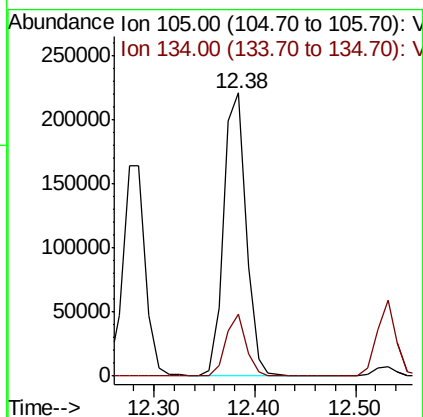
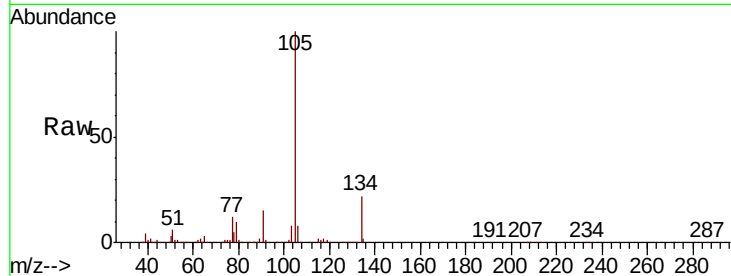




#85
 sec-Butylbenzene
 Concen: 23.296 ug/l
 RT: 12.38 min Scan# 1202
 Delta R.T. 0.02 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

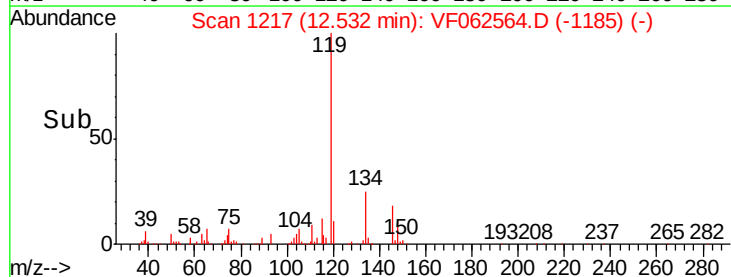
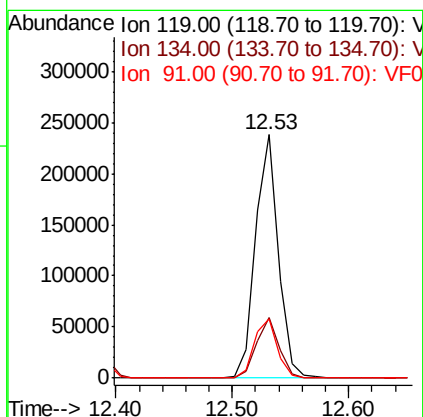
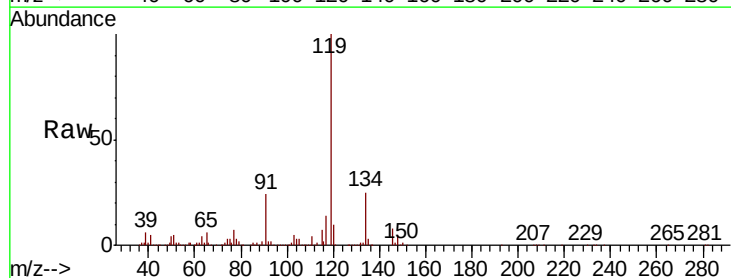
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0513SBS02

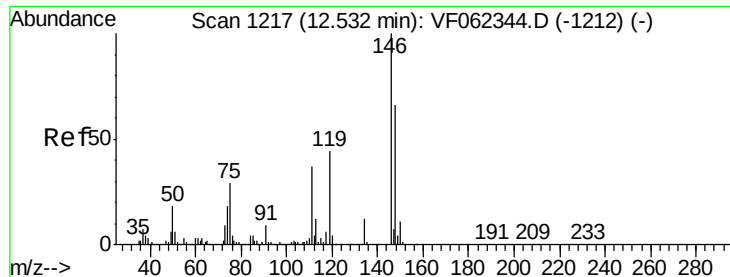
Tot Ion:105 Resp: 344714
 Ion Ratio Lower Upper
 105 100
 134 19.8 9.8 29.5



#86
 p-Isopropyltoluene
 Concen: 23.496 ug/l
 RT: 12.53 min Scan# 1217
 Delta R.T. 0.02 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

Tgt Ion:119 Resp: 323021
 Ion Ratio Lower Upper
 119 100
 134 24.4 12.9 38.7
 91 24.7 12.3 36.8





#87

1,3-Dichlorobenzene

Concen: 23.666 ug/l

RT: 12.55 min Scan# 1219

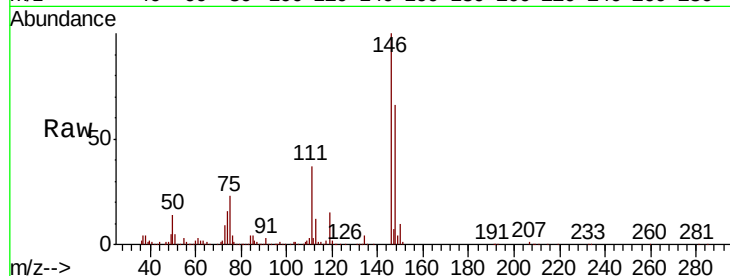
Delta R.T. 0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS02

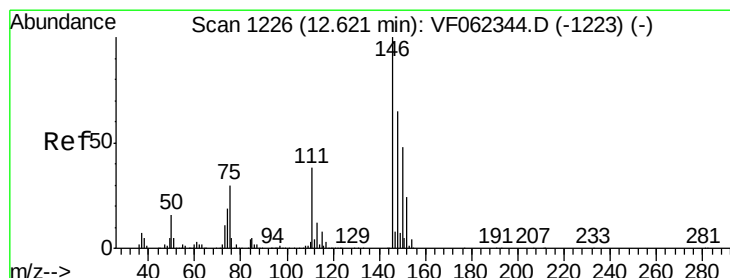
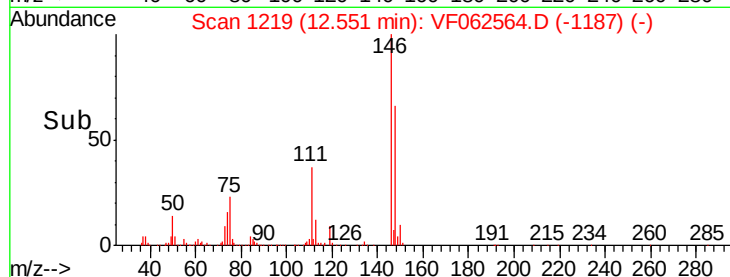
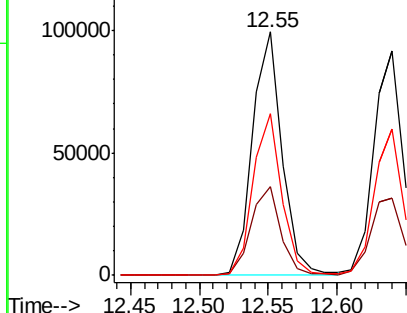
Tot Ion	Ratio	Lower	Upper
146	100		
111	36.7	18.3	54.8
148	64.8	32.3	96.9



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 22.604 ug/l

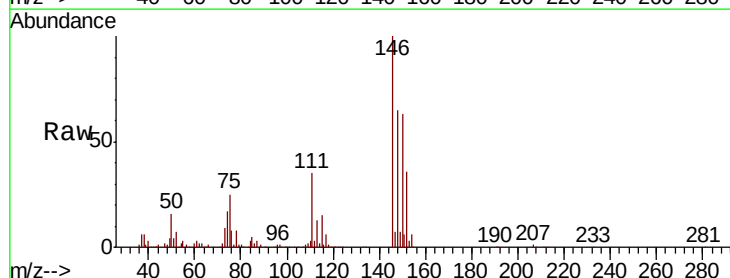
RT: 12.64 min Scan# 1228

Delta R.T. 0.02 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

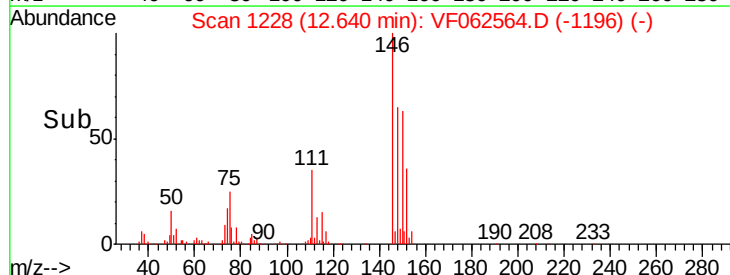
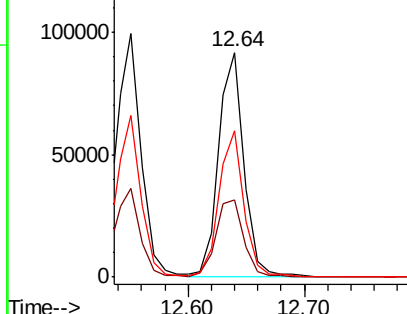
Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.3	18.8	56.3
148	64.9	32.2	96.6

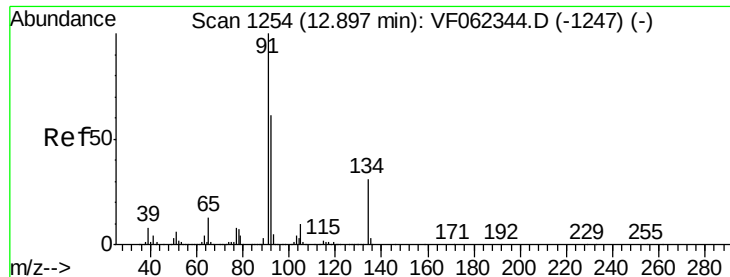


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#89

n-Butylbenzene

Concen: 23.571 ug/l

RT: 12.91 min Scan# 1255

Delta R.T. 0.01 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

VF0513SBS02

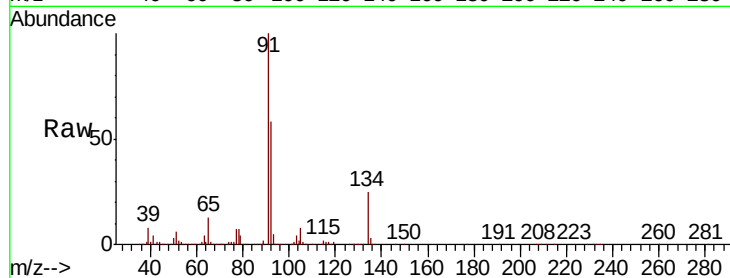
Tot Ion: 91 Resp: 288307

Ion Ratio Lower Upper

91 100

92 58.3 30.0 90.0

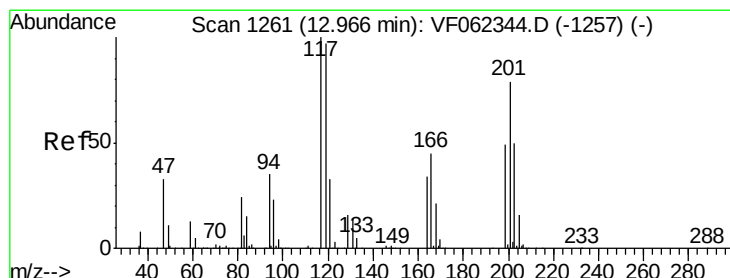
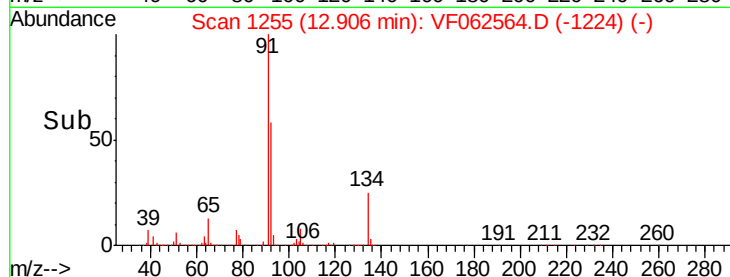
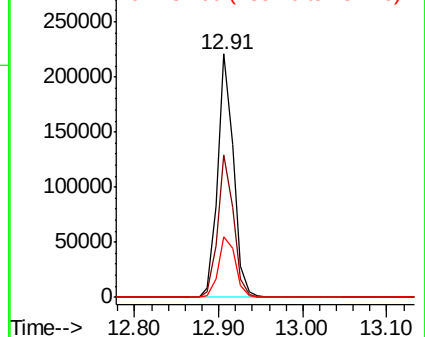
134 26.6 14.1 42.4



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 21.728 ug/l

RT: 12.99 min Scan# 1263

Delta R.T. 0.02 min

Lab File: VF062564.D

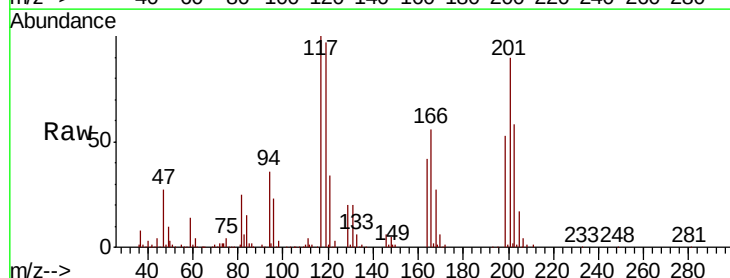
Acq: 14 May 2019 3:07

Tgt Ion: 117 Resp: 74587

Ion Ratio Lower Upper

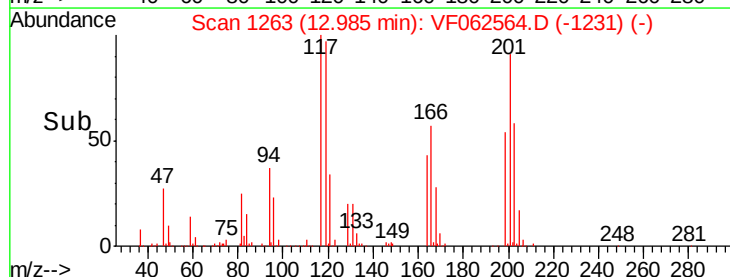
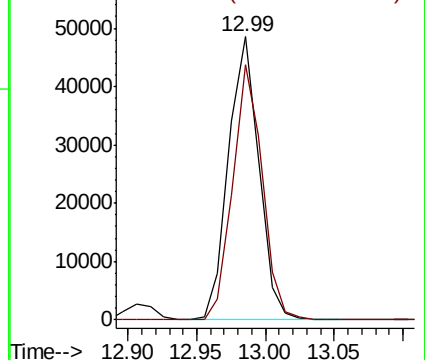
117 100

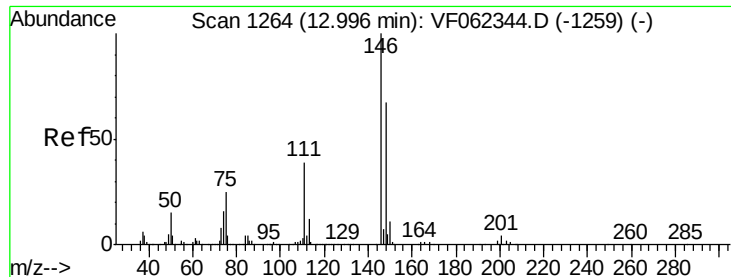
201 87.5 46.2 138.5



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#91

1,2-Dichlorobenzene

Concen: 24.012 ug/l

RT: 13.00 min Scan# 1265

Delta R.T. 0.01 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

Instrument :

MSVOA_F

ClientSampleId :

VF0513SBSD02

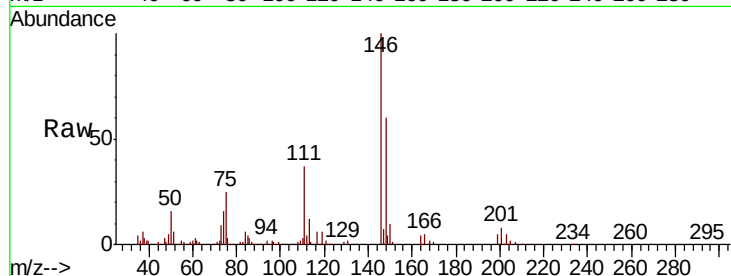
Tot Ion:146 Resp: 147022

Ion Ratio Lower Upper

146 100

111 36.1 20.0 60.0

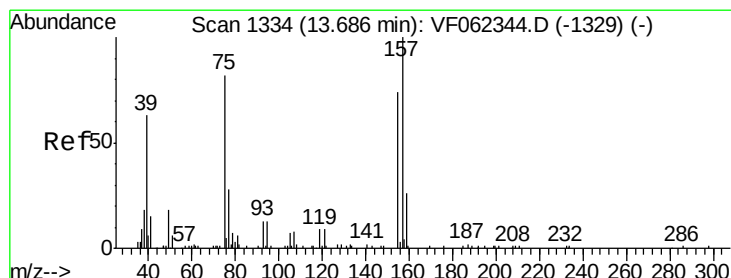
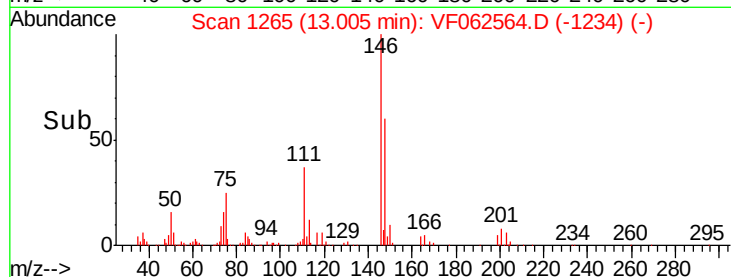
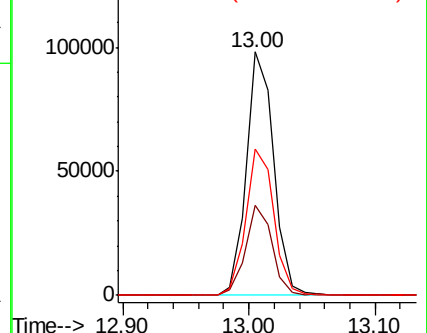
148 62.1 33.1 99.5



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 18.618 ug/l

RT: 13.69 min Scan# 1335

Delta R.T. 0.01 min

Lab File: VF062564.D

Acq: 14 May 2019 3:07

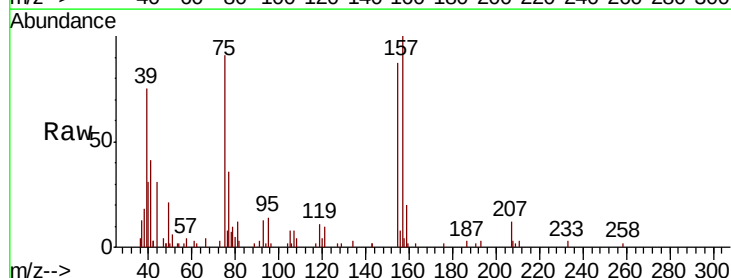
Tgt Ion: 75 Resp: 8619

Ion Ratio Lower Upper

75 100

155 107.9 51.8 155.4

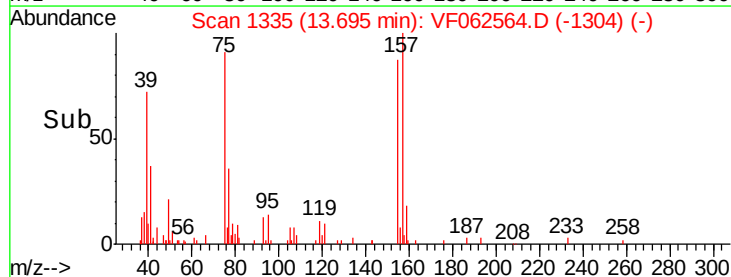
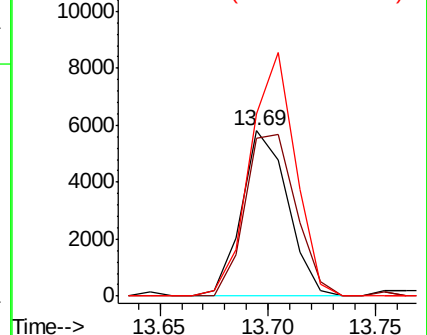
157 143.4 67.3 201.8

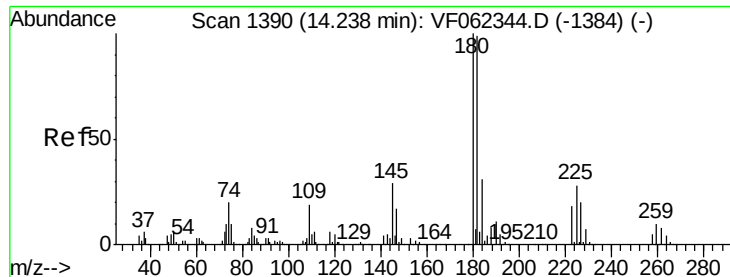


Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

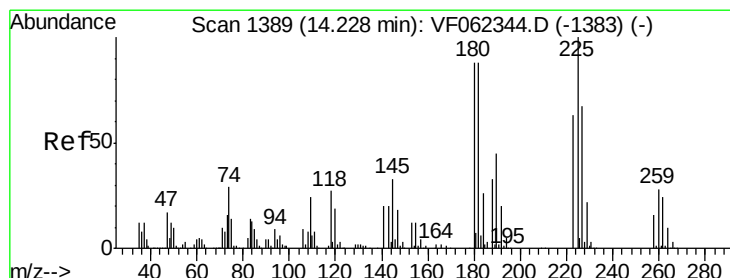
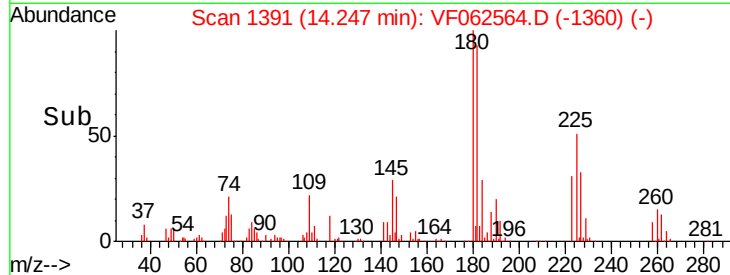
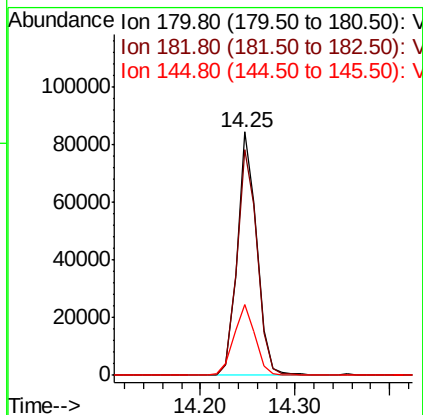
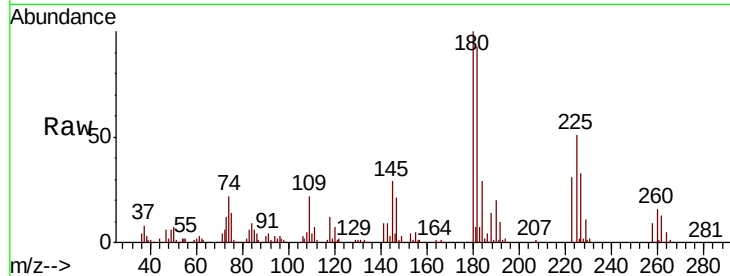




#93
 1,2,4-Trichlorobenzene
 Concen: 21.941 ug/l
 RT: 14.25 min Scan# 1391
 Delta R.T. 0.01 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

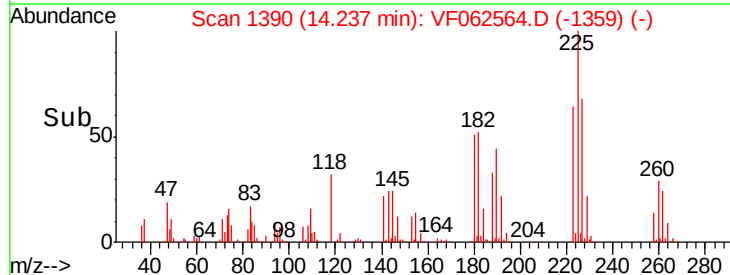
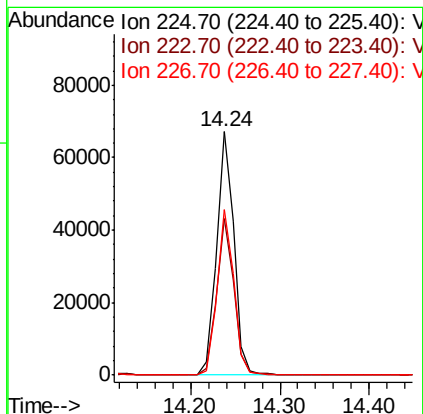
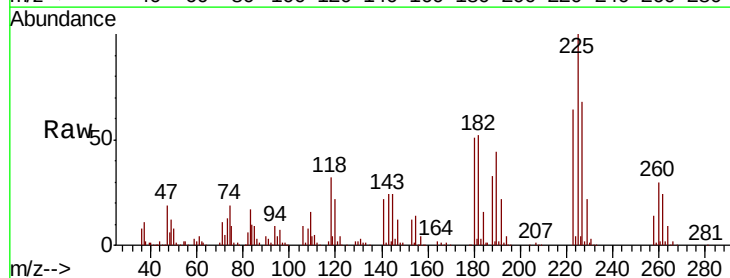
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0513SBS02

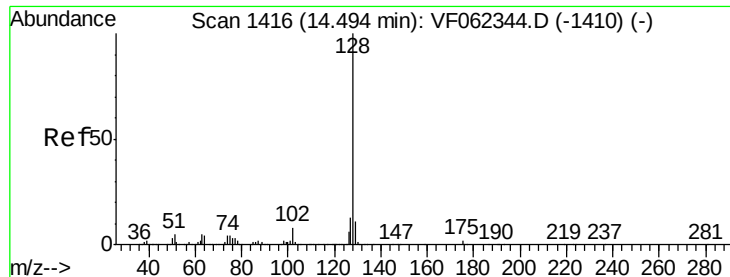
Tot Ion:180 Resp: 120499
 Ion Ratio Lower Upper
 180 100
 182 96.2 49.0 147.0
 145 31.6 16.7 50.1



#94
 Hexachlorobutadiene
 Concen: 22.224 ug/l
 RT: 14.24 min Scan# 1390
 Delta R.T. 0.01 min
 Lab File: VF062564.D
 Acq: 14 May 2019 3:07

Tgt Ion:225 Resp: 90972
 Ion Ratio Lower Upper
 225 100
 223 63.7 31.9 95.5
 227 65.6 33.1 99.5

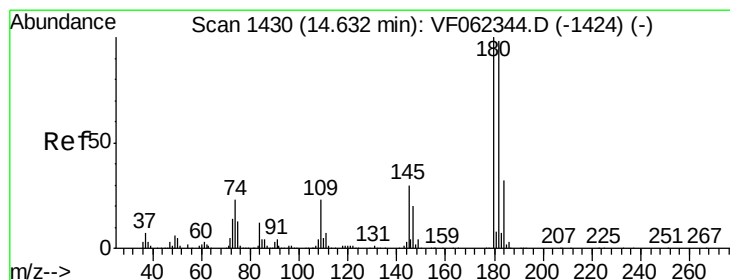
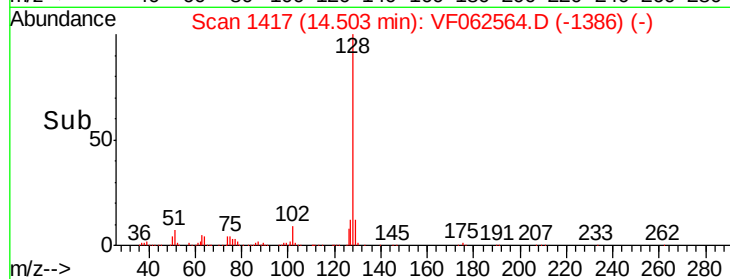
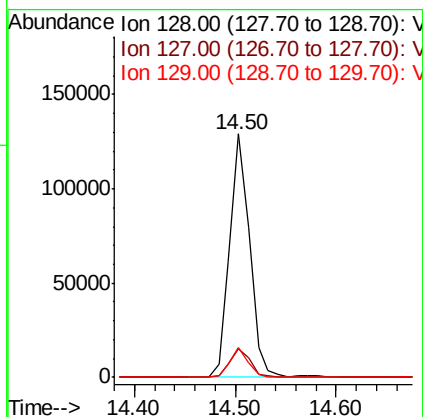
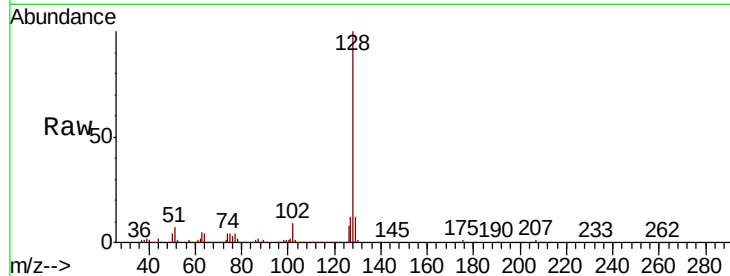




#95
Naphthalene
Concen: 21.586 ug/l
RT: 14.50 min Scan# 1417
Delta R.T. 0.01 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS02

Tot Ion:128 Resp: 178225
Ion Ratio Lower Upper
128 100
127 11.9 10.5 15.7
129 11.1 8.6 12.8



#96
1,2,3-Trichlorobenzene
Concen: 22.220 ug/l
RT: 14.65 min Scan# 1432
Delta R.T. 0.02 min
Lab File: VF062564.D
Acq: 14 May 2019 3:07

Tgt Ion:180 Resp: 118226
Ion Ratio Lower Upper
180 100
182 93.3 49.4 148.0
145 29.5 14.8 44.3

