

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF080418\
 Data File : VF059864.D
 Acq On : 4 Aug 2018 4:16
 Operator : VA/AP
 Sample : VSTDIC020
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 100 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Aug 04 05:31:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F080418S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 04 05:27:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	183867	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.77	114	268152	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	243681	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.64	152	176718	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.02	65	68381	20.36	ug/l	0.00
Spiked Amount 50.000			Recovery =	40.72%		
35) Dibromofluoromethane	4.30	113	55668	19.85	ug/l	0.00
Spiked Amount 50.000			Recovery =	39.70%		
50) Toluene-d8	7.71	98	118275	18.24	ug/l	0.00
Spiked Amount 50.000			Recovery =	36.48%		
62) 4-Bromofluorobenzene	11.51	95	66022	18.41	ug/l	0.00
Spiked Amount 50.000			Recovery =	36.82%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.99	85	65533	24.402	ug/l	98
3) Chloromethane	1.09	50	31244	23.859	ug/l	99
4) Vinyl Chloride	1.15	62	31768	23.578	ug/l #	88
5) Bromomethane	1.33	94	29439	26.394	ug/l	94
6) Chloroethane	1.42	64	20456	24.143	ug/l	97
7) Trichlorofluoromethane	1.53	101	57866	16.128	ug/l	98
8) Diethyl Ether	1.70	74	12315	20.569	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	1.89	101	50392	26.842	ug/l #	90
10) Methyl Iodide	1.96	142	69698	23.375	ug/l	96
11) Tert butyl alcohol	2.68	59	13910	94.666	ug/l #	85
12) 1,1-Dichloroethene	1.85	96	34146	22.876	ug/l	78
13) Acrolein	2.08	56	7679	120.368	ug/l	99
14) Allyl chloride	2.19	41	54043	22.586	ug/l	94
15) Acrylonitrile	3.08	53	23977	98.558	ug/l #	91
16) Acetone	2.34	43	63270	104.989	ug/l	98
17) Carbon Disulfide	1.88	76	89832	24.176	ug/l	99
18) Methyl Acetate	2.46	43	21316	18.941	ug/l	96
19) Methyl tert-butyl Ether	2.53	73	100320	22.652	ug/l	97
20) Methylene Chloride	2.32	84	17209	9.974	ug/l	85
21) trans-1,2-Dichloroethene	2.41	96	33873	22.656	ug/l #	93
22) Diisopropyl ether	2.93	45	110111	22.183	ug/l	94
23) Vinyl Acetate	3.33	43	265948	105.502	ug/l	98
24) 1,1-Dichloroethane	3.00	63	81511	23.426	ug/l	100
25) 2-Butanone	4.52	43	69641	107.279	ug/l #	87
26) 2,2-Dichloropropane	3.77	77	49491	20.660	ug/l	92
27) cis-1,2-Dichloroethene	3.64	96	36930	20.143	ug/l	96
28) Bromochloromethane	3.89	49	27671	20.490	ug/l	87
29) Tetrahydrofuran	4.26	42	25891	100.989	ug/l	96
30) Chloroform	4.03	83	110272	22.721	ug/l	91
31) Cyclohexane	3.89	56	38996	20.668	ug/l	95
32) 1,1,1-Trichloroethane	4.28	97	87431	22.979	ug/l	98
36) 1,1-Dichloropropene	4.46	75	60347	18.916	ug/l	94
37) Ethyl Acetate	4.29	43	27546	17.740	ug/l #	87
38) Carbon Tetrachloride	4.17	117	104419	23.866	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.63	83	48304	20.067	ug/l	92
40) Benzene	4.81	78	108355	19.571	ug/l	94
41) Methacrylonitrile	4.93	41	13196	17.297	ug/l #	89
42) 1,2-Dichloroethane	5.12	62	88082	22.278	ug/l	100
43) Isopropyl Acetate	7.12	43	26079	16.390	ug/l #	88
44) Trichloroethene	5.68	130	44279	20.627	ug/l	89
45) 1,2-Dichloropropane	6.40	63	29177	20.060	ug/l	93
46) Dibromomethane	6.25	93	28921	20.881	ug/l	92
47) Bromodichloromethane	6.55	83	78472	20.666	ug/l	98
48) Methyl methacrylate	6.88	41	20775	17.246	ug/l	90
49) 1,4-Dioxane	6.87	88	2707	291.534	ug/l #	52
51) 4-Methyl-2-Pentanone	8.41	43	147787	116.791	ug/l	94
52) Toluene	7.78	92	80166	19.510	ug/l	93
53) t-1,3-Dichloropropene	8.43	75	64597	20.016	ug/l	100
54) cis-1,3-Dichloropropene	7.46	75	63742	20.171	ug/l	90
55) 1,1,2-Trichloroethane	8.64	97	28647	19.460	ug/l	94
56) Ethyl methacrylate	8.76	69	26412	17.343	ug/l	87
57) 1,3-Dichloropropane	9.00	76	49745	19.486	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.78	63	18653	100.657	ug/l	100
59) 2-Hexanone	9.63	43	99523	99.576	ug/l	98
60) Dibromochloromethane	8.86	129	55991	21.148	ug/l	95
61) 1,2-Dibromoethane	9.14	107	35338	20.223	ug/l	100
64) Tetrachloroethene	8.30	164	45683	22.988	ug/l	98
65) Chlorobenzene	9.95	112	104347	20.891	ug/l	93
66) 1,1,1,2-Tetrachloroethane	10.08	131	56603	24.155	ug/l	95
67) Ethyl Benzene	10.05	91	194883	22.484	ug/l	100
68) m/p-Xylenes	10.27	106	136669	44.985	ug/l	94
69) o-Xylene	10.83	106	71776	22.337	ug/l	99
70) Styrene	10.90	104	108865	22.619	ug/l	98
71) Bromoform	10.89	173	33251	22.096	ug/l	93
73) Isopropylbenzene	11.23	105	241075	20.374	ug/l	98
74) N-amyl acetate	11.47	43	50470	17.292	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.79	83	41938	19.150	ug/l	99
76) 1,2,3-Trichloropropane	11.89	75	37751	20.108	ug/l	97
77) Bromobenzene	11.59	156	62170	20.189	ug/l	94
78) n-propylbenzene	11.69	91	285151	20.667	ug/l	98
79) 2-Chlorotoluene	11.81	91	174397	20.336	ug/l	100
80) 1,3,5-Trimethylbenzene	11.92	105	226485	21.250	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.96	75	19123	25.310	ug/l #	75
82) 4-Chlorotoluene	11.99	91	192452	21.027	ug/l	98
83) tert-Butylbenzene	12.21	119	218872	20.693	ug/l	98
84) 1,2,4-Trimethylbenzene	12.29	105	232044	21.690	ug/l	97
85) sec-Butylbenzene	12.39	105	282877	20.772	ug/l	96
86) p-Isopropyltoluene	12.54	119	243688	20.288	ug/l	99
87) 1,3-Dichlorobenzene	12.56	146	123009	20.947	ug/l	97
88) 1,4-Dichlorobenzene	12.65	146	118612	20.650	ug/l	98
89) n-Butylbenzene	12.92	91	239720	21.221	ug/l	98
90) Hexachloroethane	12.99	117	62393	20.694	ug/l	84
91) 1,2-Dichlorobenzene	13.02	146	115709	20.375	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.71	75	9878	18.141	ug/l	83

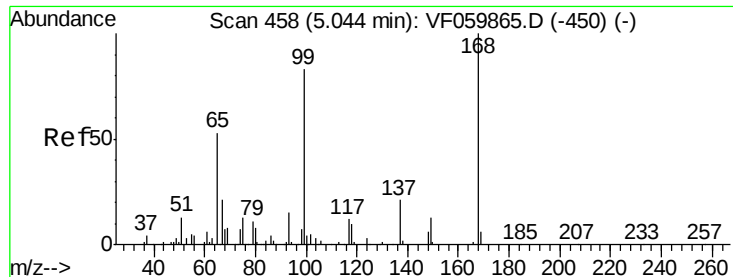
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.26	180	89527	20.287	ug/l	97
94) Hexachlorobutadiene	14.25	225	65398	22.109	ug/l	93
95) Naphthalene	14.52	128	148592	19.247	ug/l	99
96) 1,2,3-Trichlorobenzene	14.67	180	86310	20.137	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 458

Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

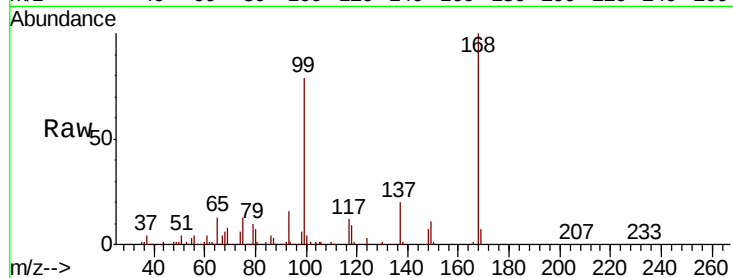
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 183867

Ion Ratio Lower Upper

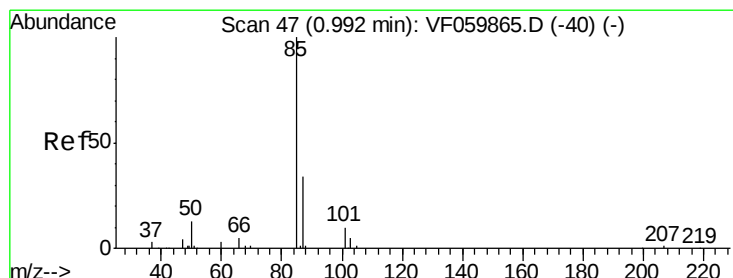
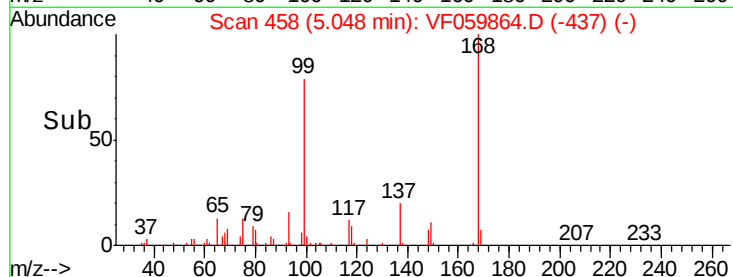
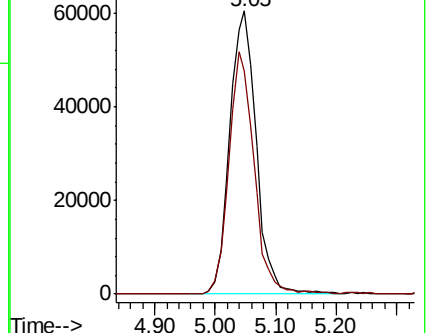
168 100

99 78.7 66.3 99.5



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 24.402 ug/l

RT: 0.99 min Scan# 46

Delta R.T. -0.01 min

Lab File: VF059864.D

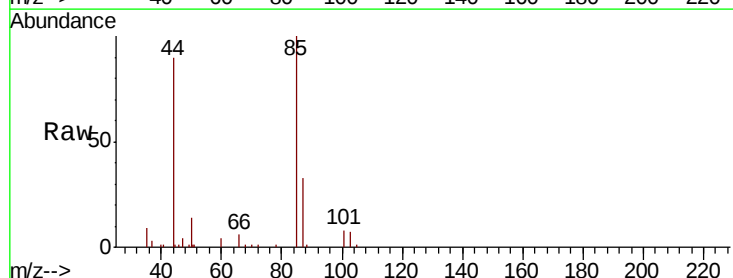
Acq: 4 Aug 2018 4:16

Tgt Ion: 85 Resp: 65533

Ion Ratio Lower Upper

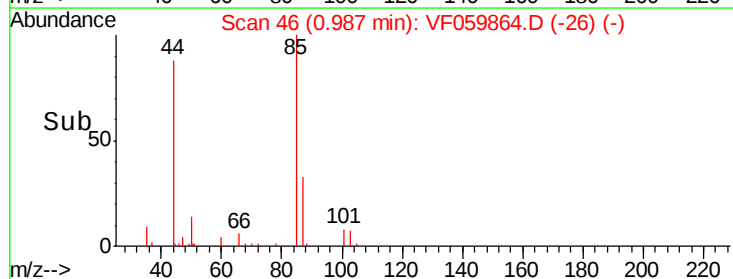
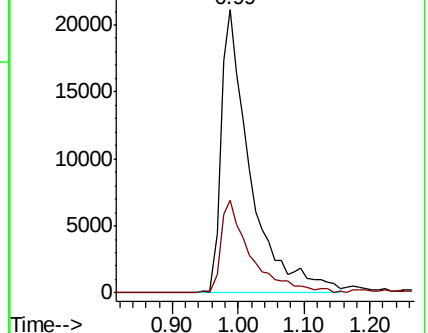
85 100

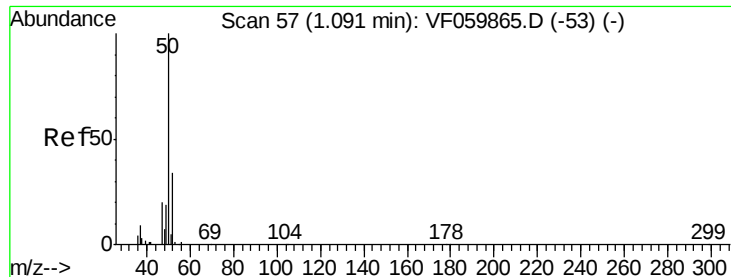
87 32.6 16.9 50.7



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 23.859 ug/l

RT: 1.09 min Scan# 56

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

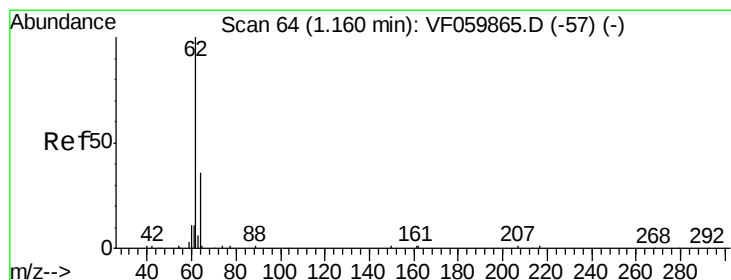
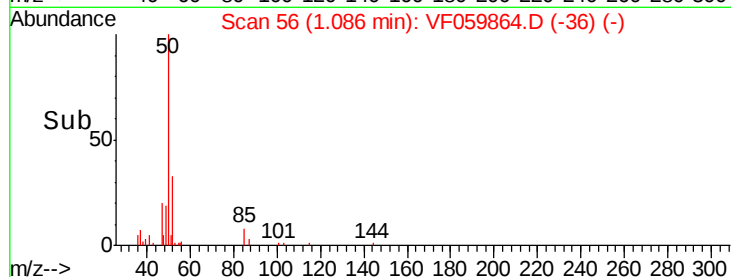
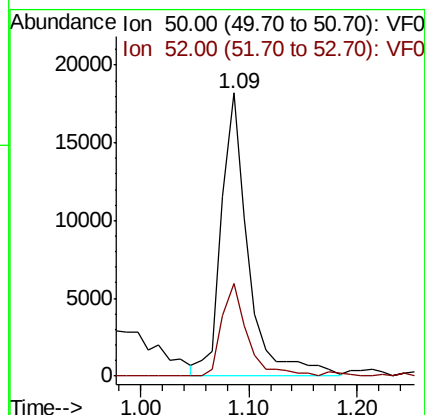
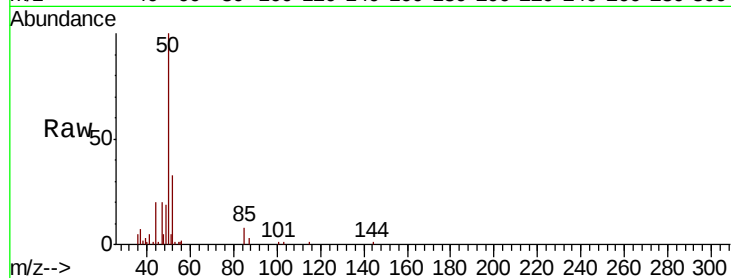
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 50 Resp: 31244

Ion Ratio Lower Upper

50 100

52 32.8 25.8 38.8



#4

Vinyl Chloride

Concen: 23.578 ug/l

RT: 1.15 min Scan# 63

Delta R.T. -0.01 min

Lab File: VF059864.D

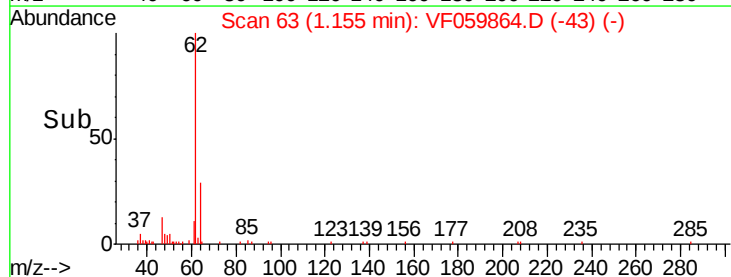
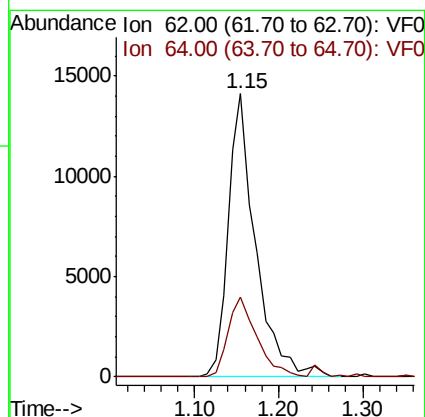
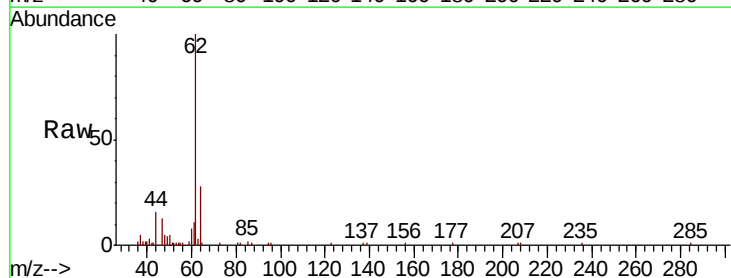
Acq: 4 Aug 2018 4:16

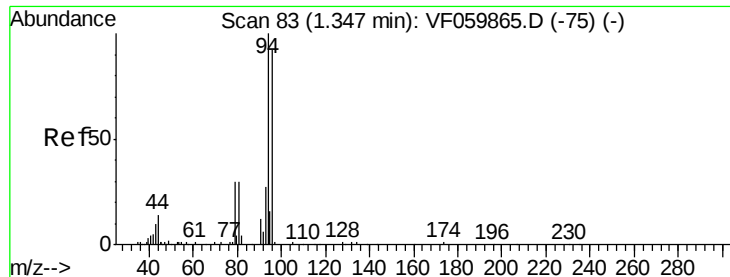
Tgt Ion: 62 Resp: 31768

Ion Ratio Lower Upper

62 100

64 28.4 28.5 42.7#





#5

Bromomethane

Concen: 26.394 ug/l

RT: 1.33 min Scan# 81

Delta R.T. -0.02 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

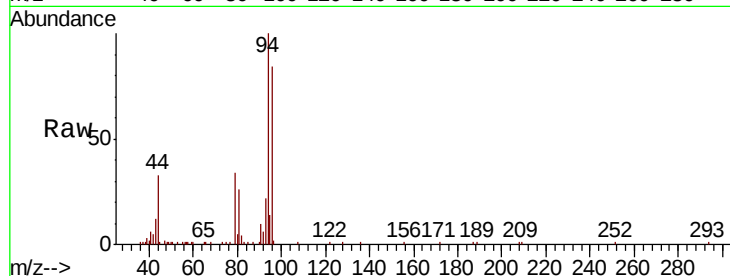
ClientSampleId :

Tot Ion: 94 Resp: 29439

Ion Ratio Lower Upper

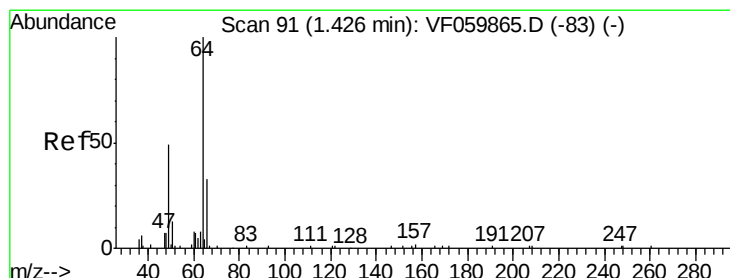
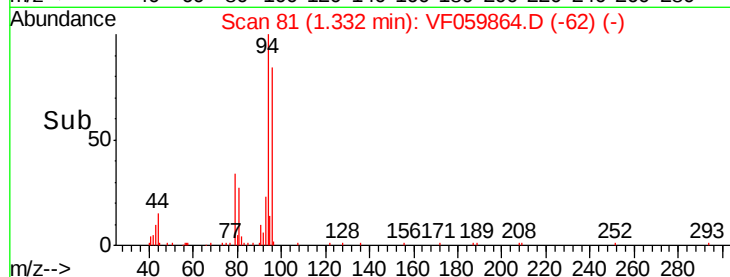
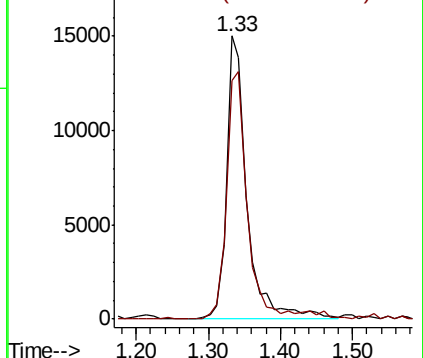
94 100

96 86.1 73.8 110.8



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 24.143 ug/l

RT: 1.42 min Scan# 90

Delta R.T. -0.01 min

Lab File: VF059864.D

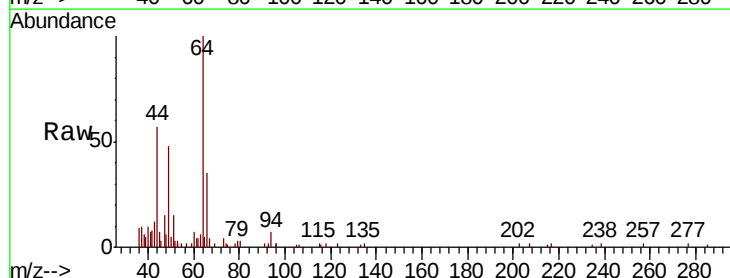
Acq: 4 Aug 2018 4:16

Tgt Ion: 64 Resp: 20456

Ion Ratio Lower Upper

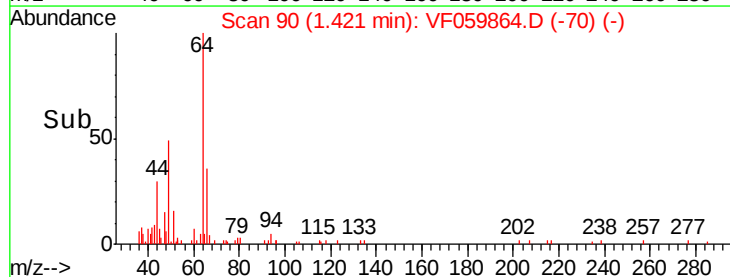
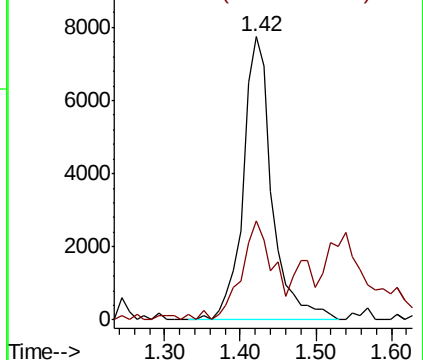
64 100

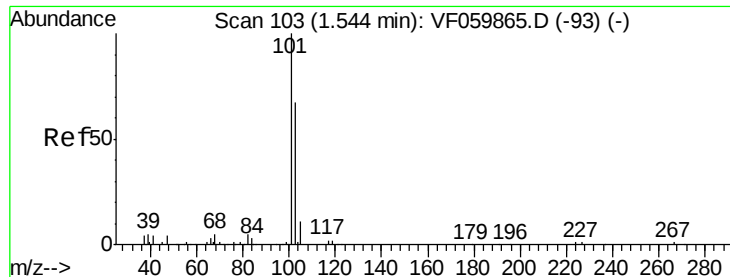
66 35.1 26.9 40.3



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0



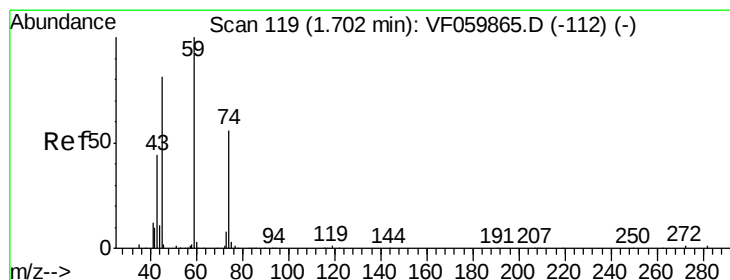
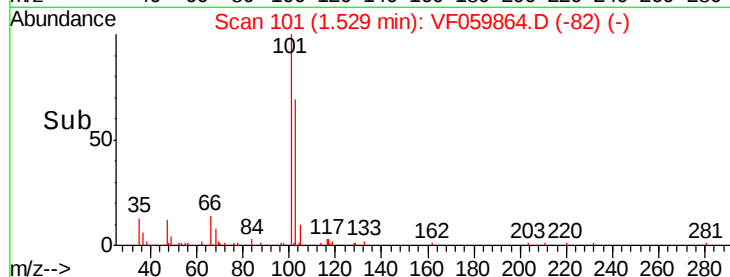
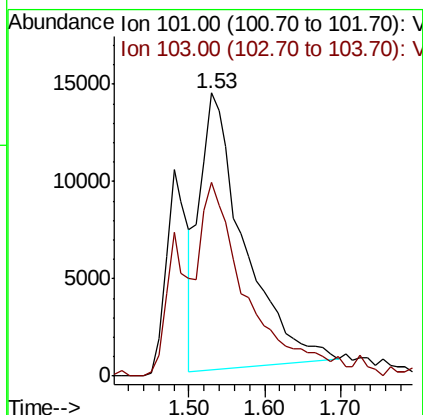
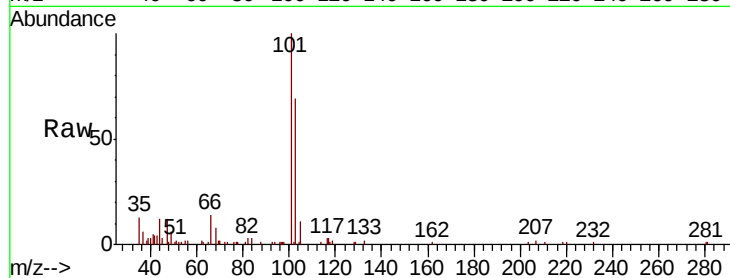


#7

Trichlorofluoromethane
Concen: 16.128 ug/l
RT: 1.53 min Scan# 101
Delta R.T. -0.02 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Instrument :
MSVOA_F
ClientSampleId :

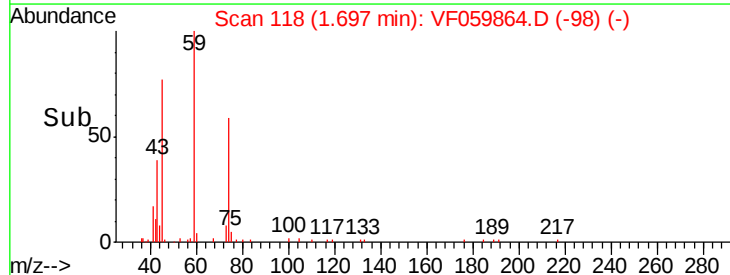
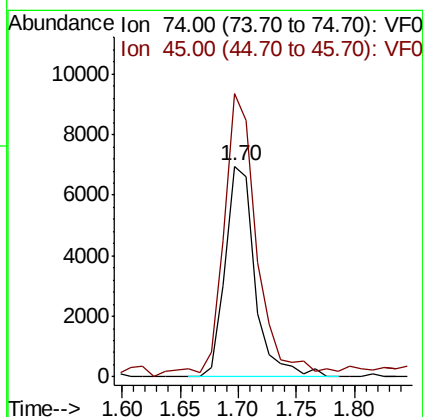
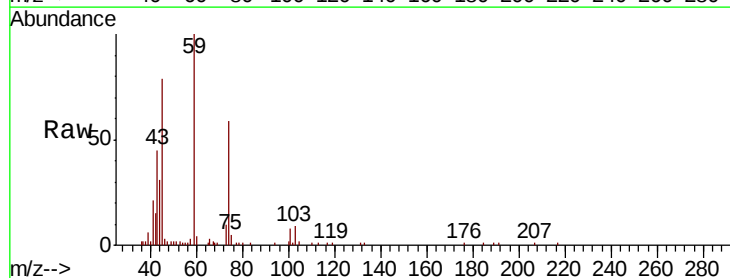
Tot Ion:101 Resp: 57866
Ion Ratio Lower Upper
101 100
103 68.7 53.6 80.4

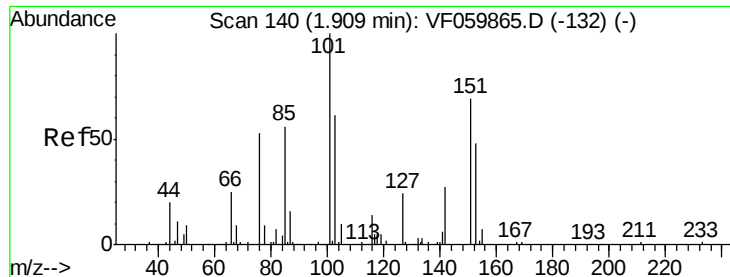


#8

Diethyl Ether
Concen: 20.569 ug/l
RT: 1.70 min Scan# 118
Delta R.T. -0.01 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Tgt Ion: 74 Resp: 12315
Ion Ratio Lower Upper
74 100
45 134.5 73.6 220.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 26.842 ug/l

RT: 1.89 min Scan# 138

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

ClientSampleId :

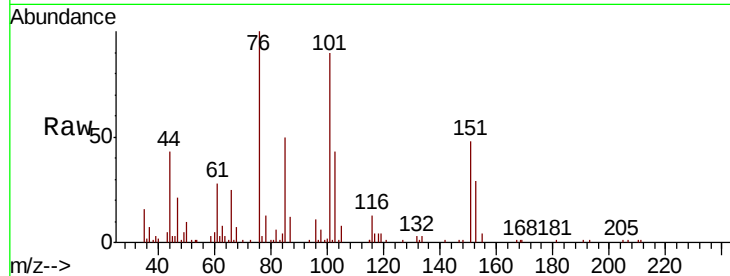
Tot Ion:101 Resp: 50392

Ion Ratio Lower Upper

101 100

85 55.5 44.5 66.7

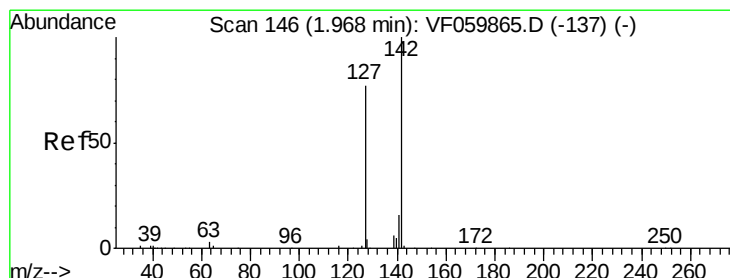
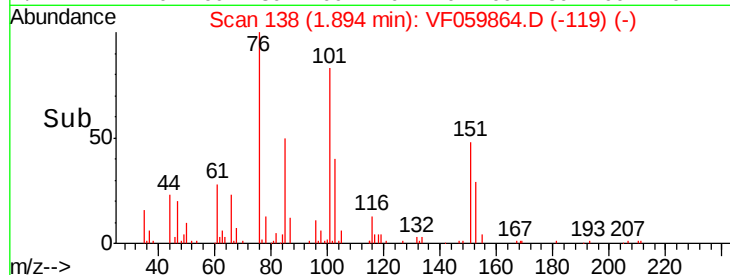
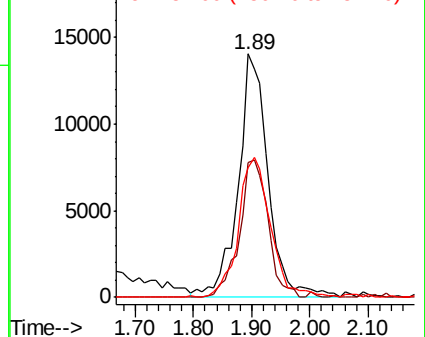
151 53.2 53.8 80.8#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 23.375 ug/l

RT: 1.96 min Scan# 145

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

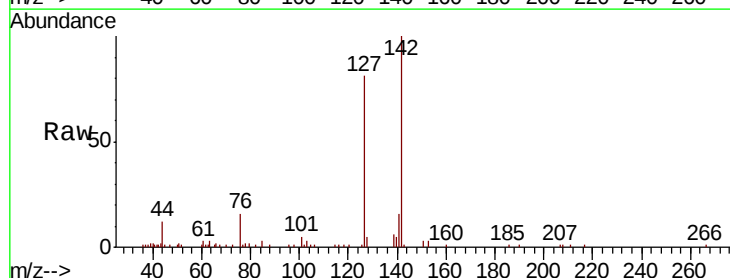
Tgt Ion:142 Resp: 69698

Ion Ratio Lower Upper

142 100

127 80.9 61.5 92.3

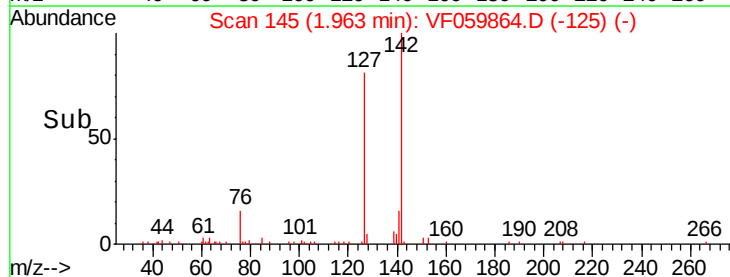
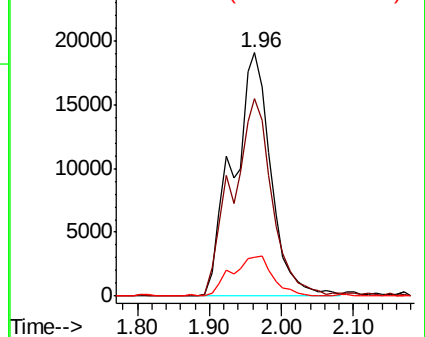
141 15.8 13.0 19.4

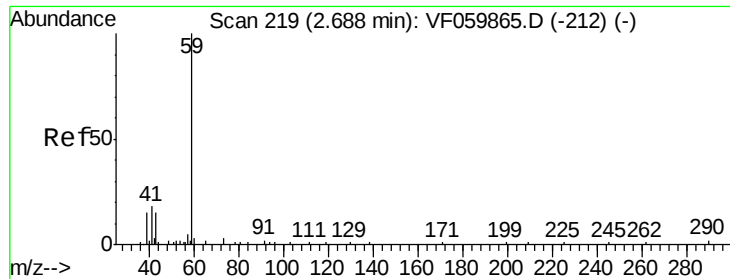


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

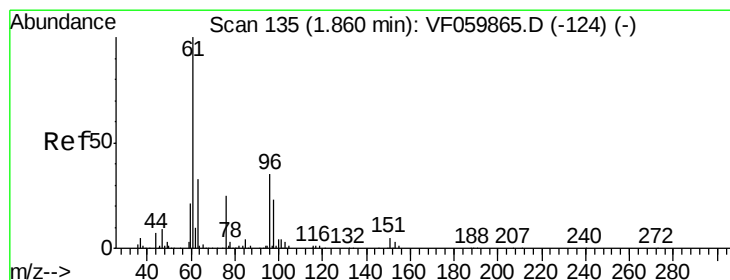
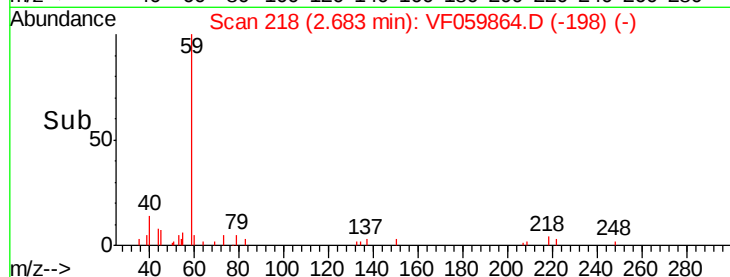
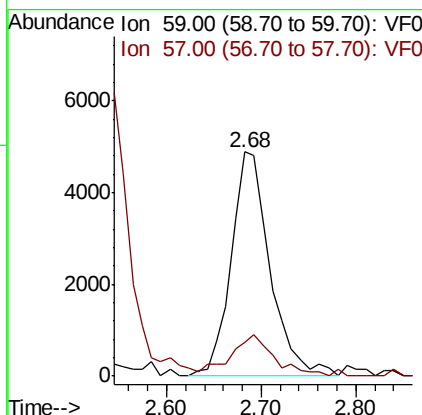
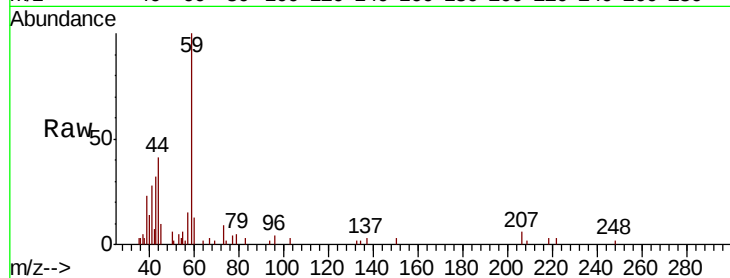




#11
Tert butyl alcohol
Concen: 94.666 ug/l
RT: 2.68 min Scan# 218
Delta R.T. -0.01 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

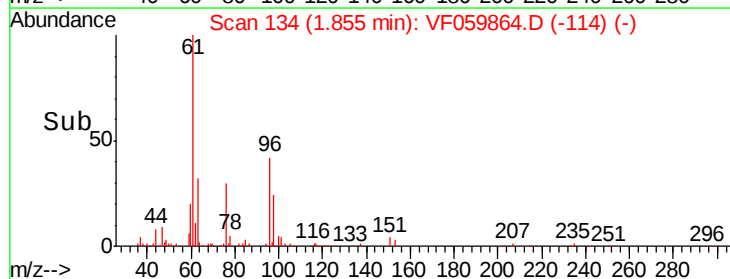
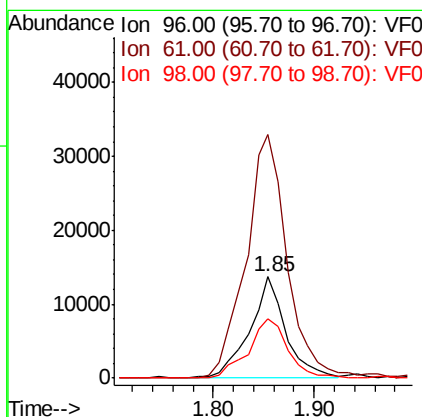
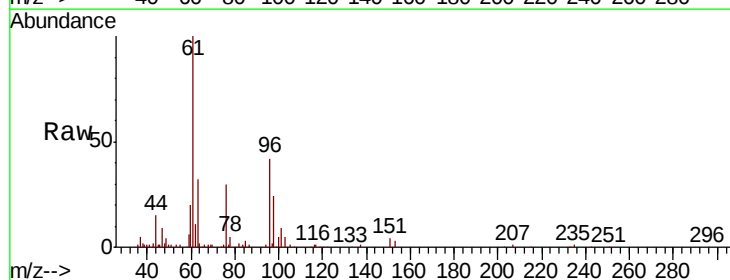
Instrument :
MSVOA_F
ClientSampled :

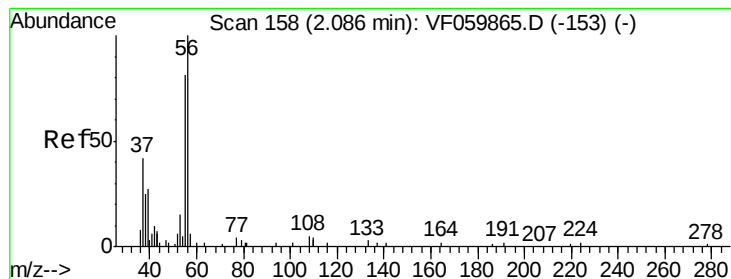
Tot Ion: 59 Resp: 13910
Ion Ratio Lower Upper
59 100
57 14.8 7.6 11.4#



#12
1,1-Dichloroethene
Concen: 22.876 ug/l
RT: 1.85 min Scan# 134
Delta R.T. -0.01 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Tgt Ion: 96 Resp: 34146
Ion Ratio Lower Upper
96 100
61 240.8 230.2 345.2
98 58.5 52.7 79.1





#13

Acrolein

Concen: 120.368 ug/l

RT: 2.08 min Scan# 157

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

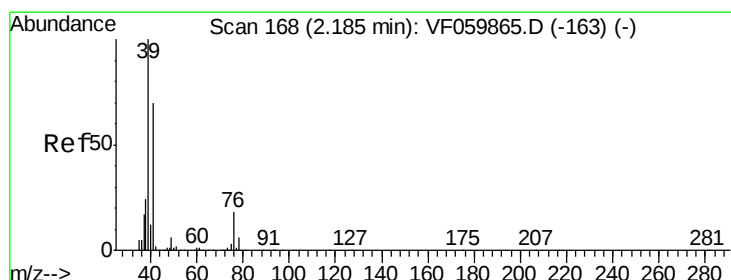
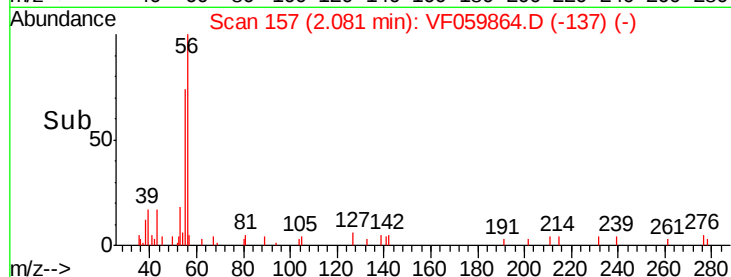
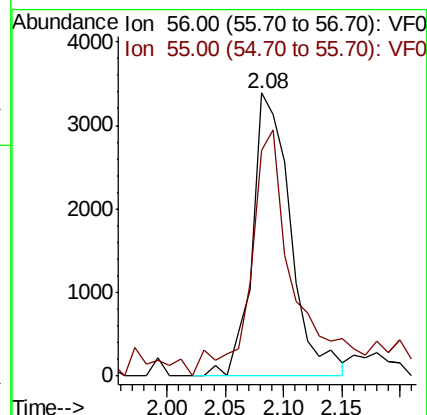
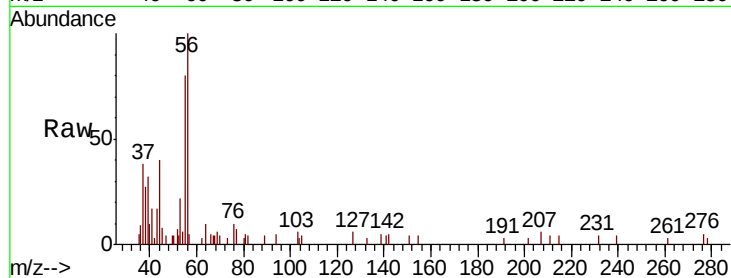
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 56 Resp: 7679

Ion Ratio Lower Upper

56 100

55 79.8 64.6 96.8



#14

Allyl chloride

Concen: 22.586 ug/l

RT: 2.19 min Scan# 168

Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

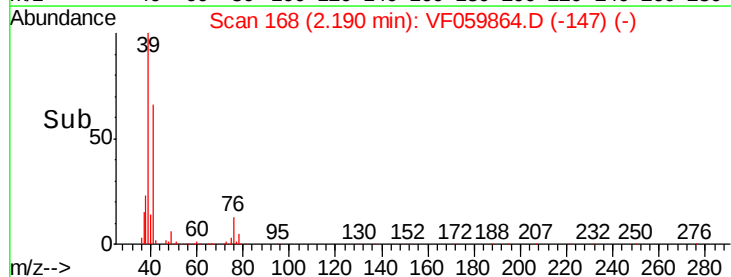
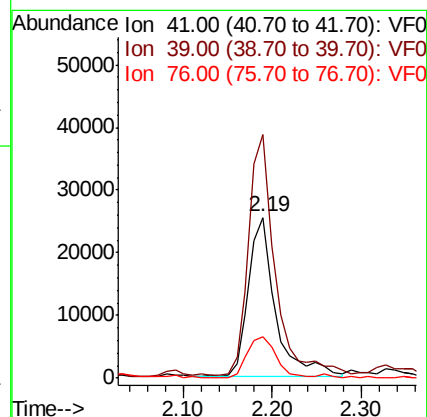
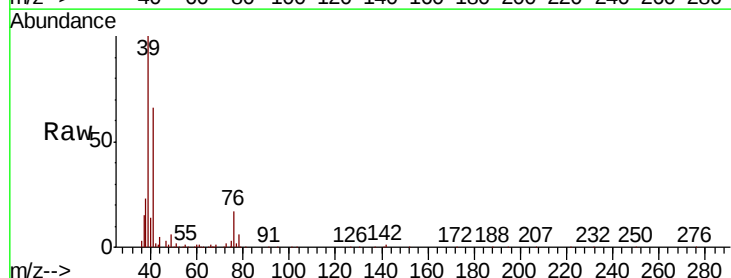
Tgt Ion: 41 Resp: 54043

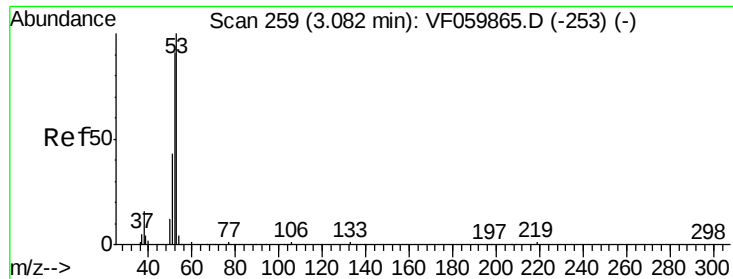
Ion Ratio Lower Upper

41 100

39 151.5 114.6 171.8

76 25.9 21.0 31.4





#15

Acrylonitrile

Concen: 98.558 ug/l

RT: 3.08 min Scan# 258

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

ClientSampleId :

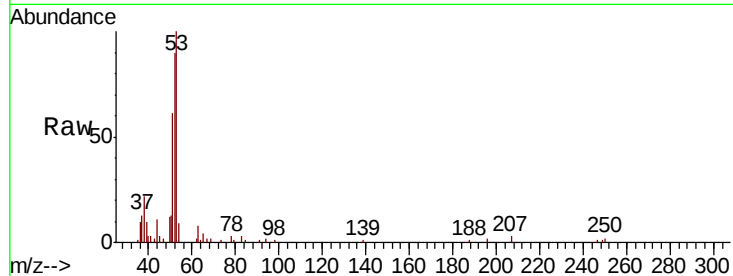
Tot Ion: 53 Resp: 23977

Ion Ratio Lower Upper

53 100

52 90.1 72.9 109.3

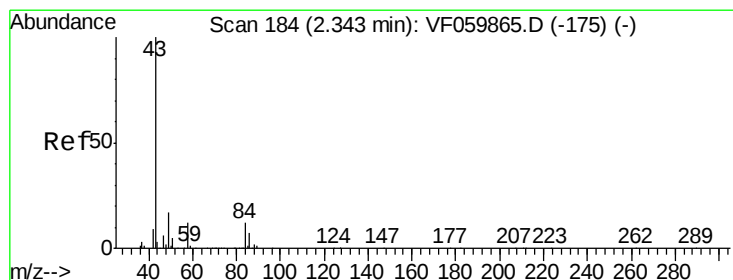
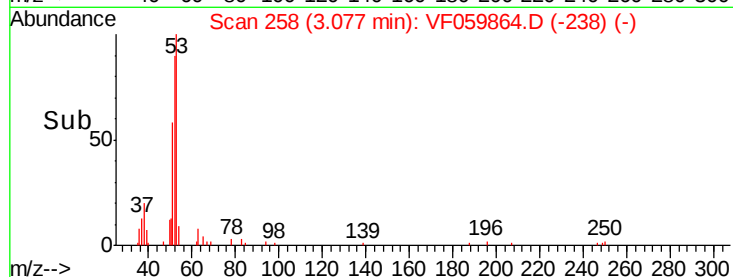
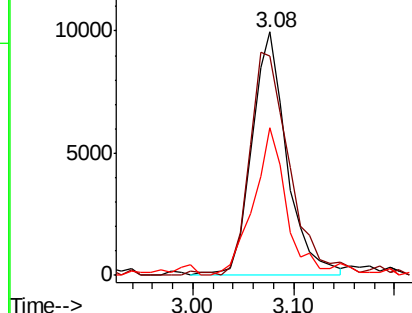
51 60.5 34.5 51.7#



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: 104.989 ug/l

RT: 2.34 min Scan# 183

Delta R.T. -0.01 min

Lab File: VF059864.D

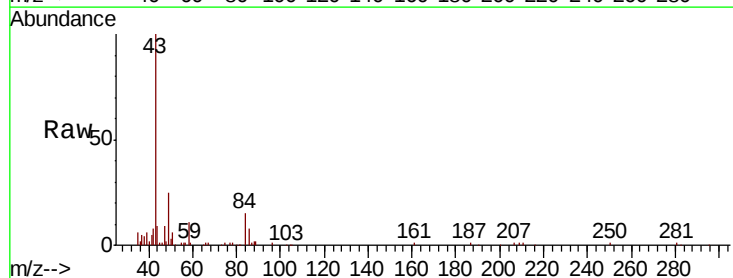
Acq: 4 Aug 2018 4:16

Tgt Ion: 43 Resp: 63270

Ion Ratio Lower Upper

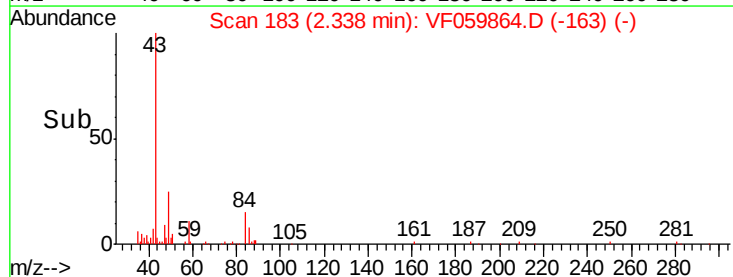
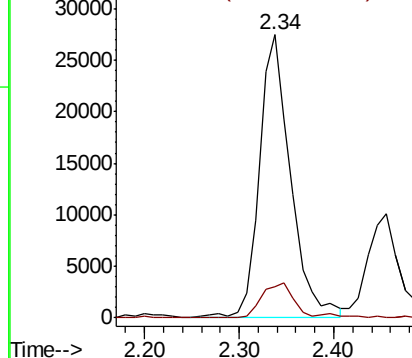
43 100

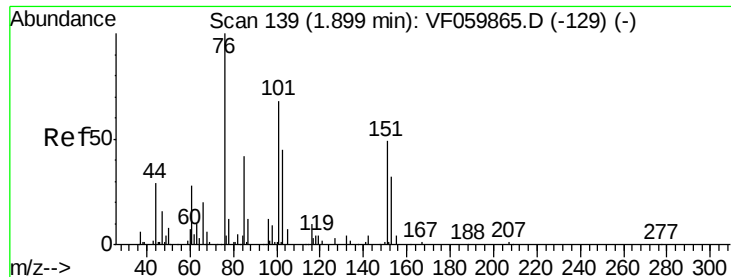
58 10.9 9.4 14.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

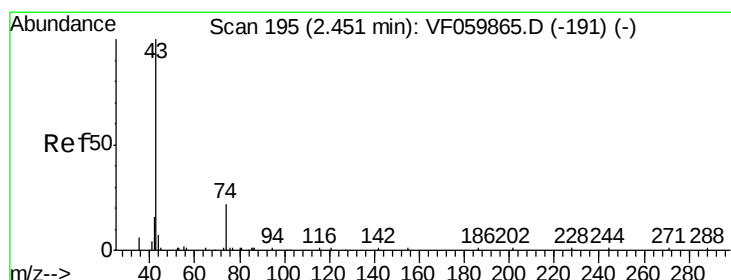
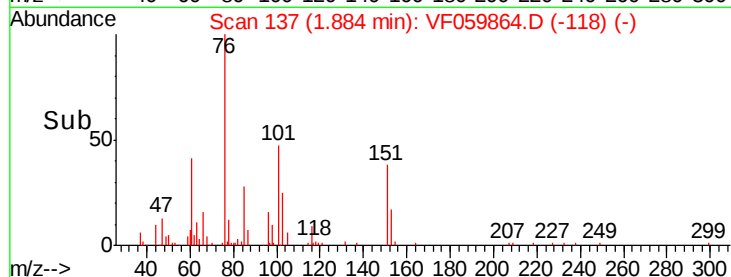
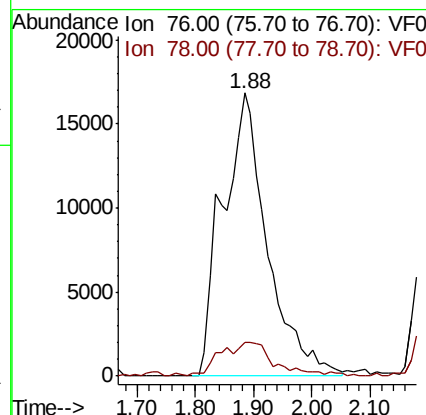
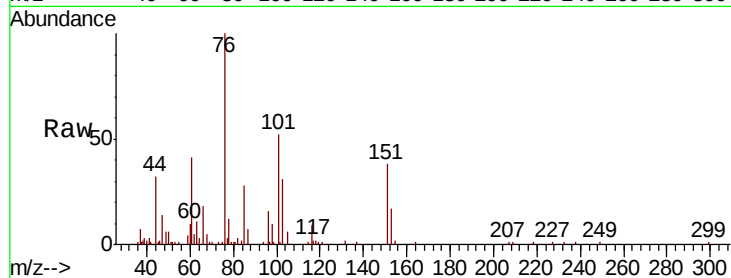




#17
Carbon Disulfide
Concen: 24.176 ug/l
RT: 1.88 min Scan# 137
Delta R.T. -0.01 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

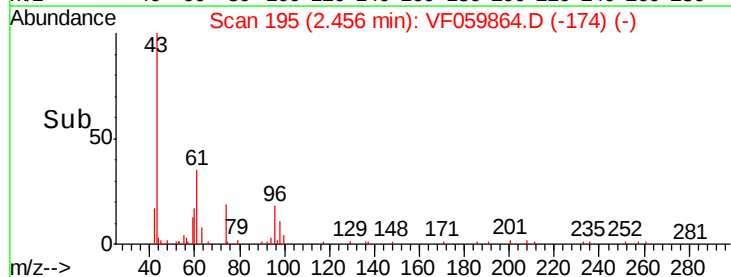
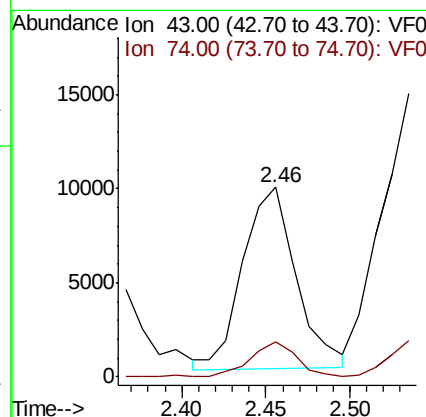
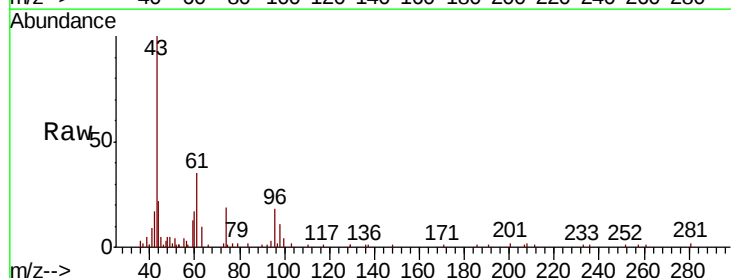
Instrument :
MSVOA_F
ClientSampleId :

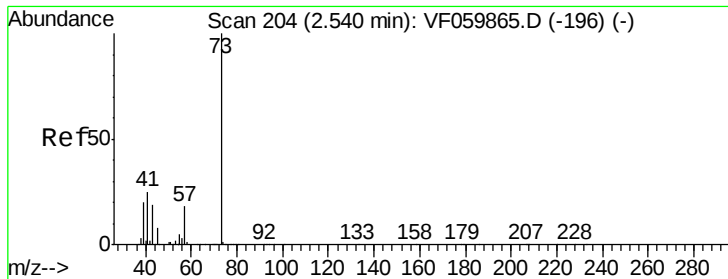
Tot Ion: 76 Resp: 89832
Ion Ratio Lower Upper
76 100
78 12.1 9.3 13.9



#18
Methyl Acetate
Concen: 18.941 ug/l
RT: 2.46 min Scan# 195
Delta R.T. 0.00 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Tgt Ion: 43 Resp: 21316
Ion Ratio Lower Upper
43 100
74 18.6 16.3 24.5



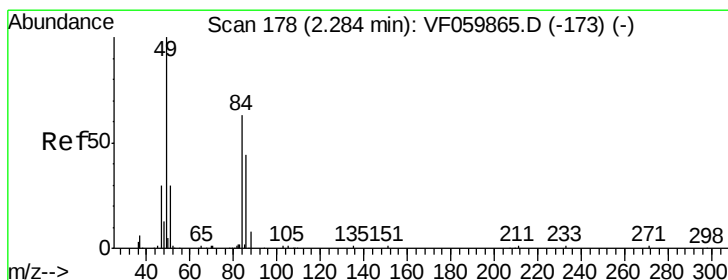
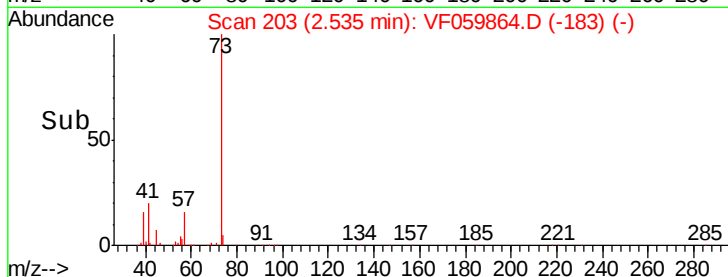
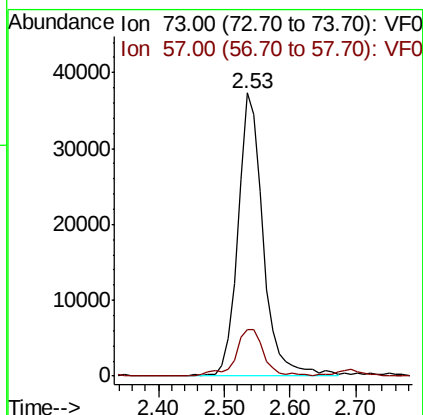
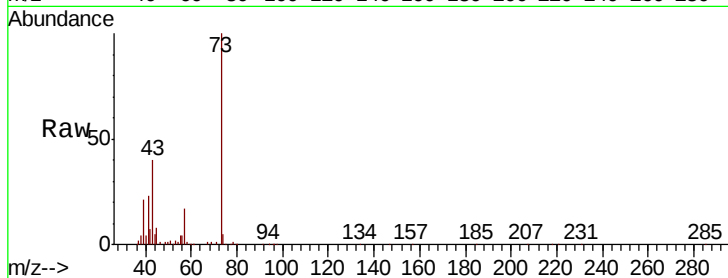


#19

Methyl tert-butyl Ether
 Concen: 22.652 ug/l
 RT: 2.53 min Scan# 203
 Delta R.T. -0.01 min
 Lab File: VF059864.D
 Acq: 4 Aug 2018 4:16

Instrument :
 MSVOA_F
 ClientSampleId :

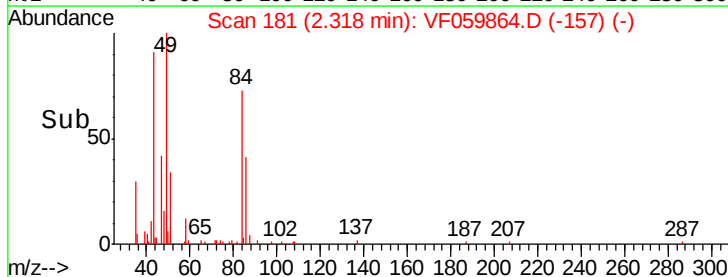
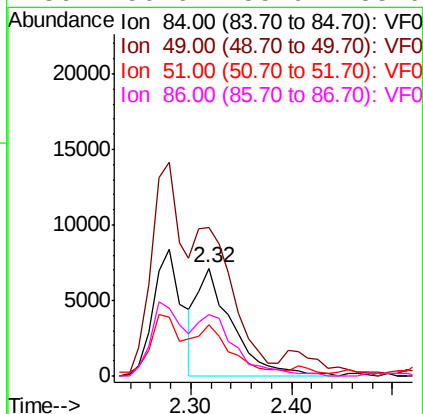
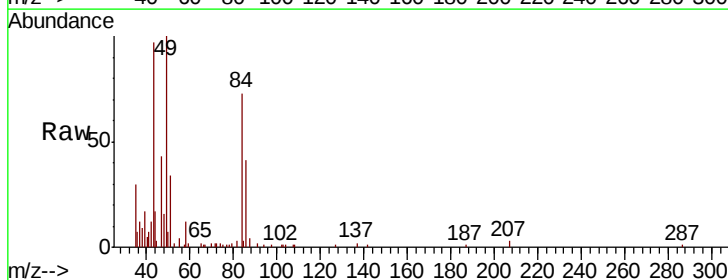
Tot Ion: 73 Resp: 100320
 Ion Ratio Lower Upper
 73 100
 57 16.5 14.3 21.5

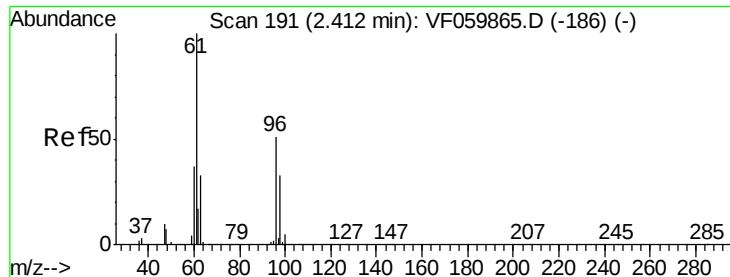


#20

Methylene Chloride
 Concen: 9.974 ug/l
 RT: 2.32 min Scan# 181
 Delta R.T. 0.03 min
 Lab File: VF059864.D
 Acq: 4 Aug 2018 4:16

Tgt Ion: 84 Resp: 17209
 Ion Ratio Lower Upper
 84 100
 49 137.3 128.7 193.1
 51 47.0 39.3 58.9
 86 56.6 55.9 83.9





#21

trans-1,2-Dichloroethene

Concen: 22.656 ug/l

RT: 2.41 min Scan# 190

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

ClientSampleId :

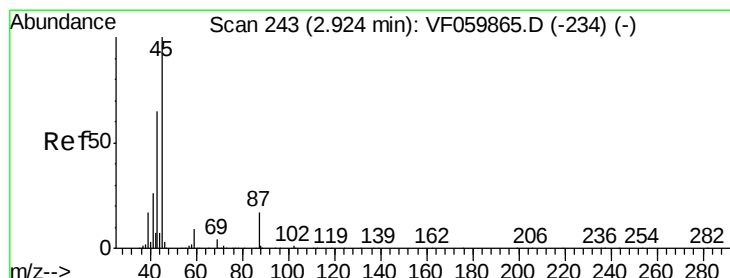
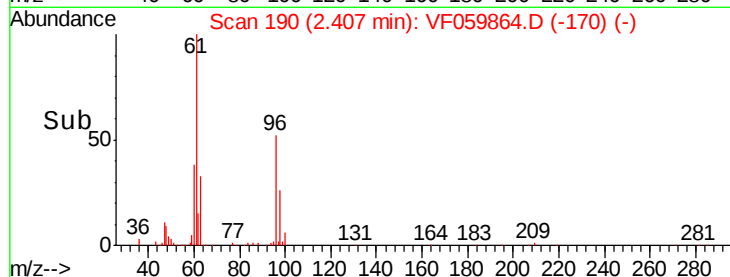
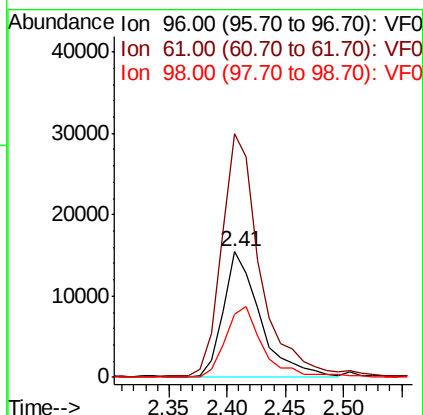
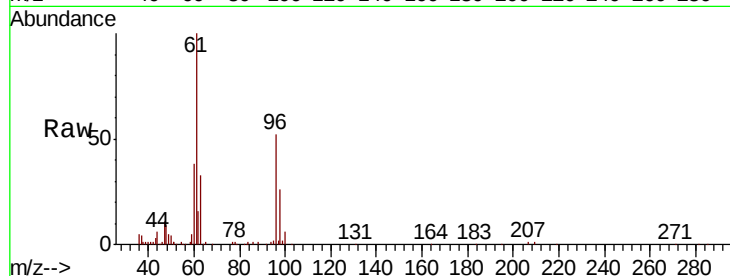
Tot Ion: 96 Resp: 33873

Ion Ratio Lower Upper

96 100

61 193.9 158.2 237.4

98 50.3 52.0 78.0#



#22

Diisopropyl ether

Concen: 22.183 ug/l

RT: 2.93 min Scan# 243

Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Tgt Ion: 45 Resp: 110111

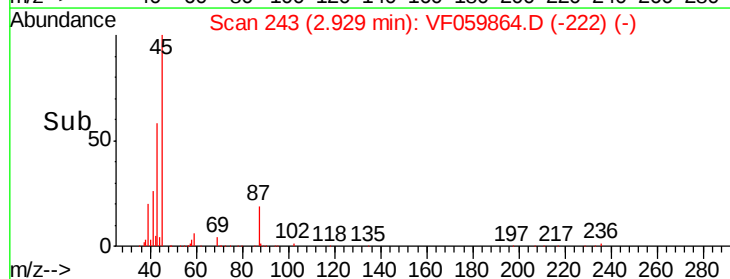
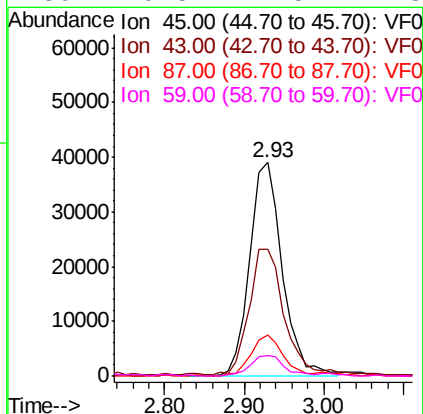
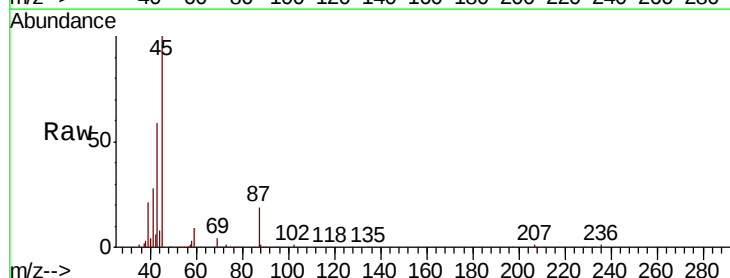
Ion Ratio Lower Upper

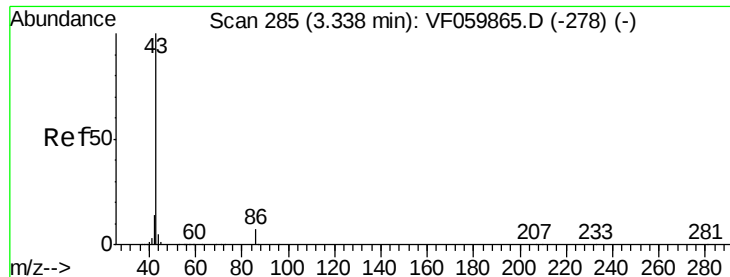
45 100

43 59.3 52.1 78.1

87 19.0 13.8 20.8

59 9.5 7.5 11.3





#23

Vinyl Acetate

Concen: 105.502 ug/l

RT: 3.33 min Scan# 284

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

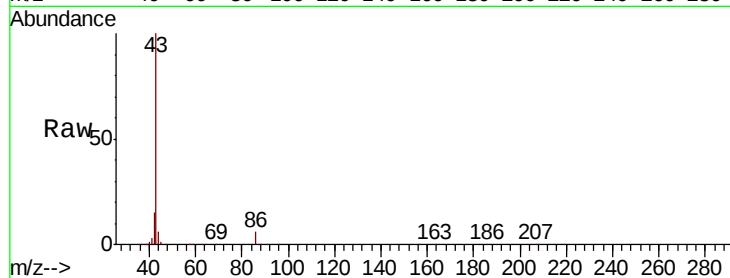
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 265948

Ion Ratio Lower Upper

43 100

86 6.2 5.6 8.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.33

120000

100000

80000

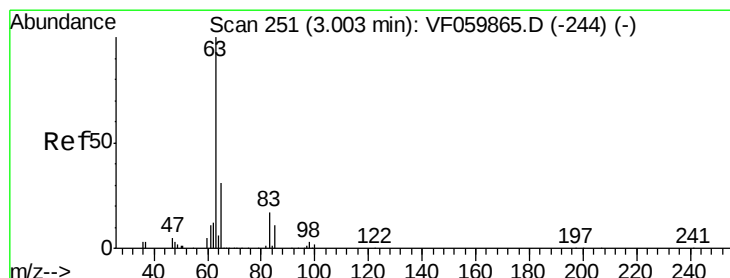
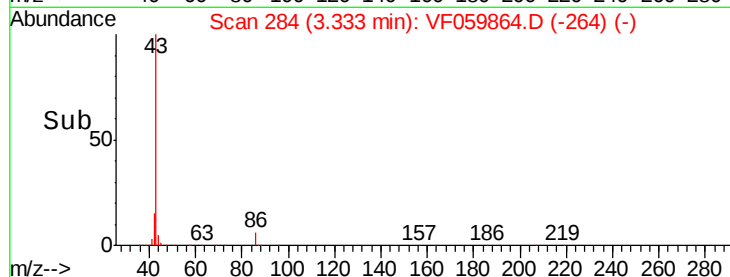
60000

40000

20000

0

Time-->



#24

1,1-Dichloroethane

Concen: 23.426 ug/l

RT: 3.00 min Scan# 250

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

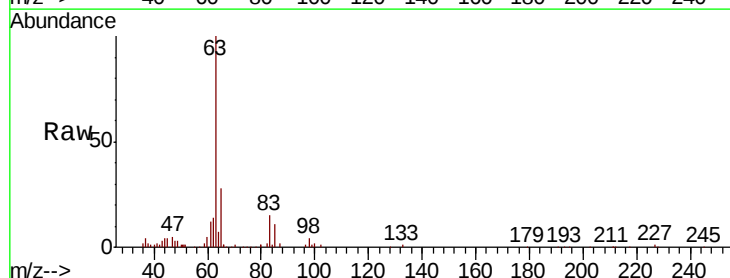
Tgt Ion: 63 Resp: 81511

Ion Ratio Lower Upper

63 100

98 3.6 1.9 5.7

100 2.2 1.1 3.5



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

3.00

40000

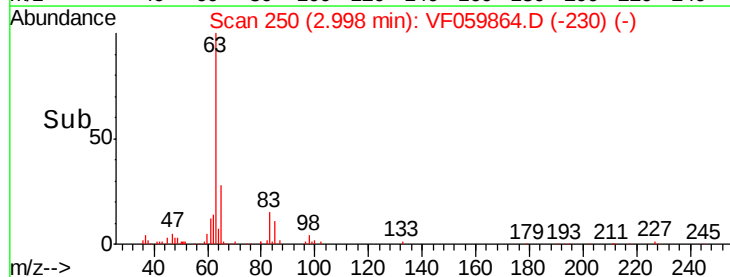
30000

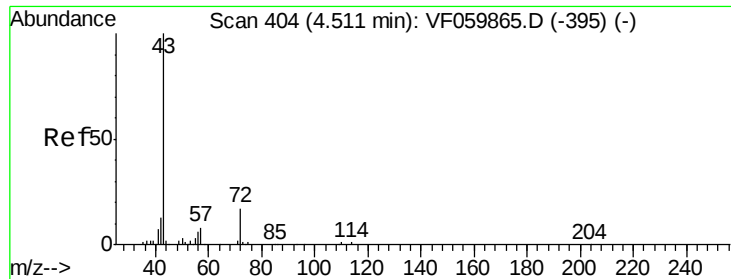
20000

10000

0

Time-->





#25

2-Butanone

Concen: 107.279 ug/l

RT: 4.52 min Scan# 404

Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

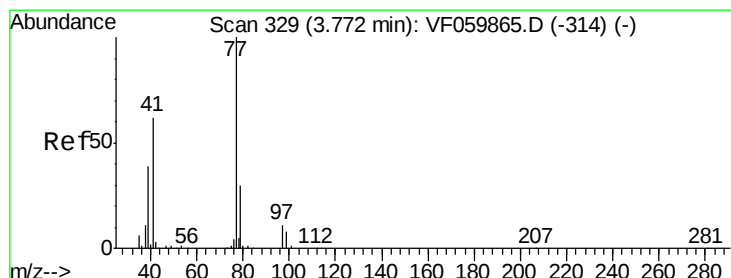
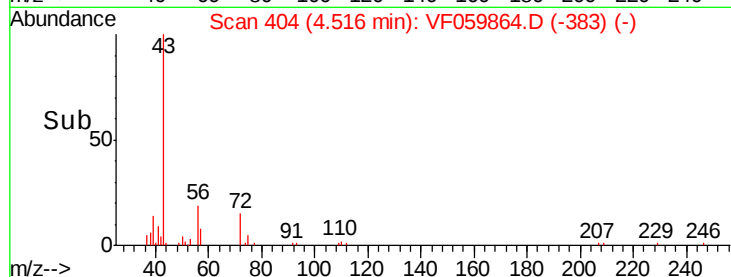
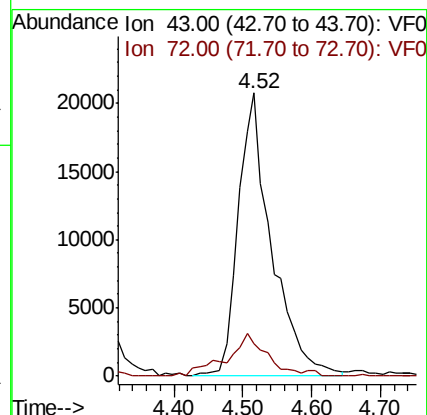
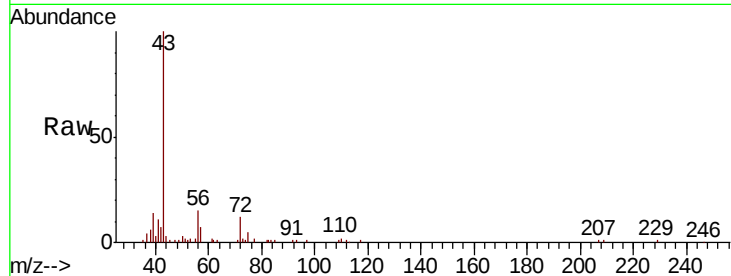
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 69641

Ion Ratio Lower Upper

43 100

72 11.6 13.9 20.9#



#26

2,2-Dichloropropane

Concen: 20.660 ug/l

RT: 3.77 min Scan# 328

Delta R.T. -0.01 min

Lab File: VF059864.D

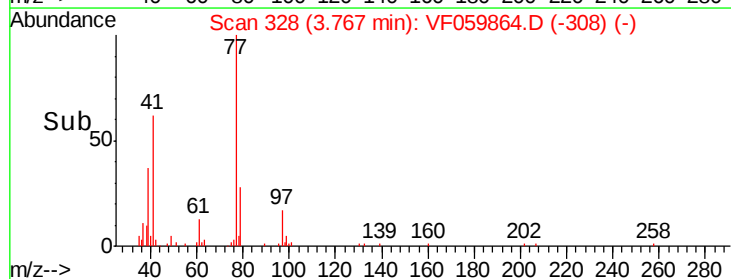
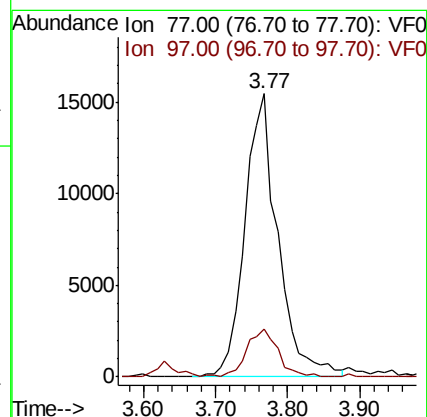
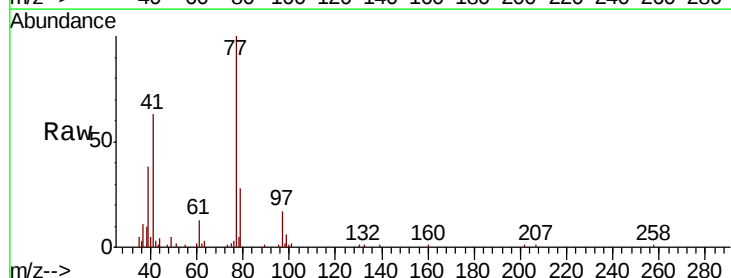
Acq: 4 Aug 2018 4:16

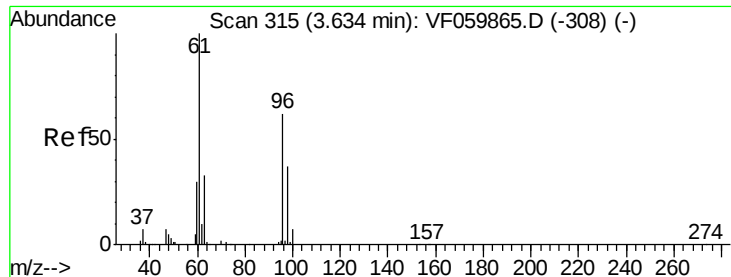
Tgt Ion: 77 Resp: 49491

Ion Ratio Lower Upper

77 100

97 16.8 6.8 20.3



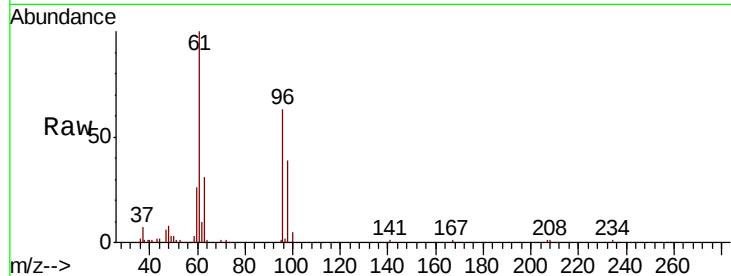


#27

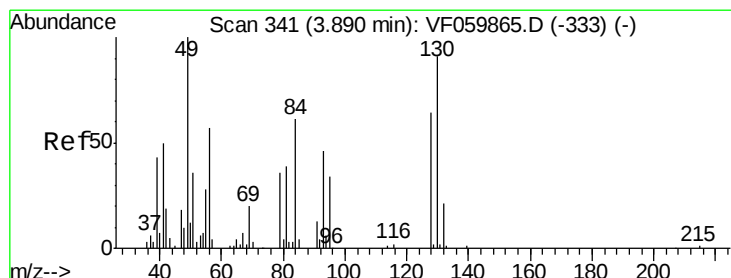
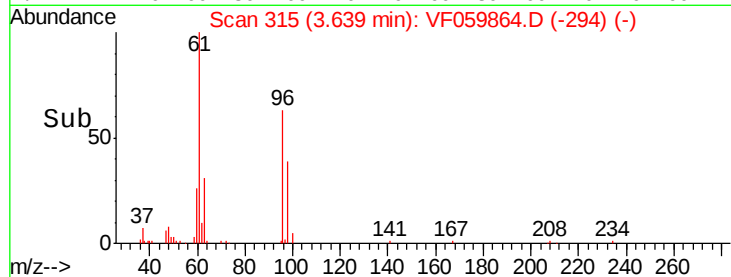
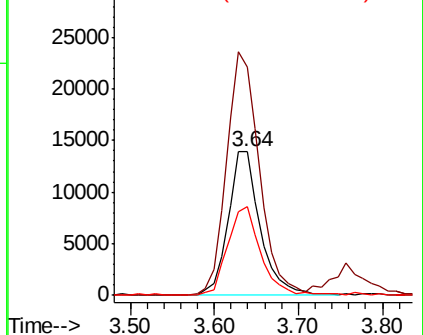
cis-1,2-Dichloroethene
Concen: 20.143 ug/l
RT: 3.64 min Scan# 315
Delta R.T. 0.00 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	96	Resp	36930
Ion	Ratio	Lower	Upper
96	100		
61	153.3	0.0	320.8
98	60.0	0.0	117.6



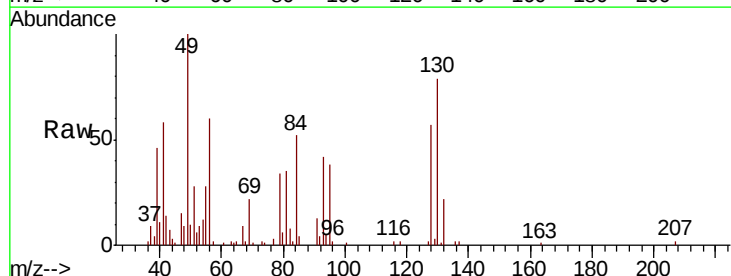
Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



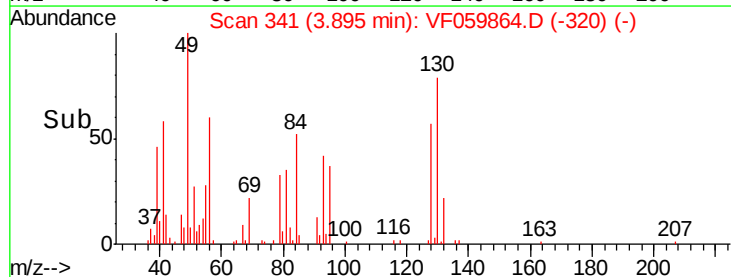
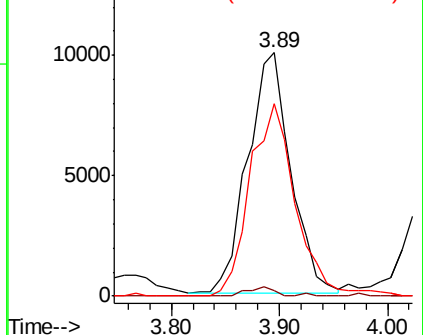
#28

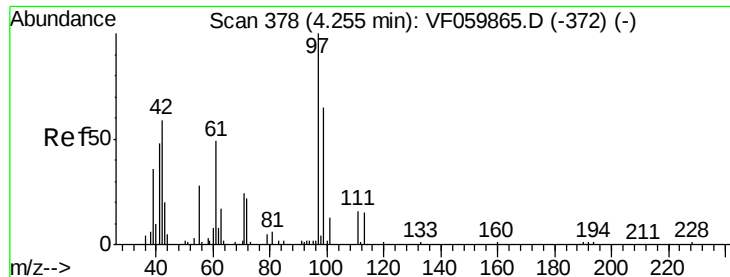
Bromochloromethane
Concen: 20.490 ug/l
RT: 3.89 min Scan# 341
Delta R.T. 0.00 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Tgt Ion	49	Resp	27671
Ion	Ratio	Lower	Upper
49	100		
129	2.5	0.0	4.6
130	79.2	73.8	110.8



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





#29

Tetrahydrofuran

Concen: 100.989 ug/l

RT: 4.26 min Scan# 378

Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

ClientSampled :

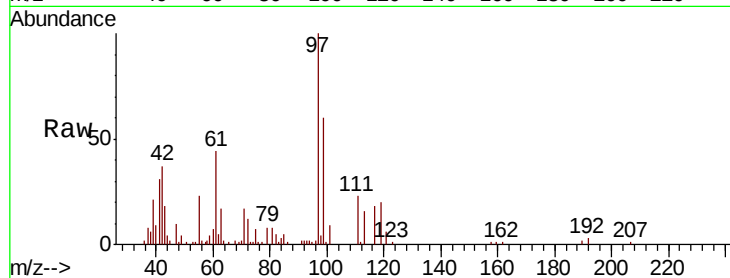
Tot Ion: 42 Resp: 25891

Ion Ratio Lower Upper

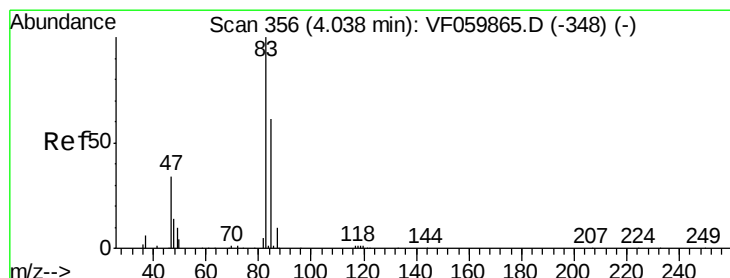
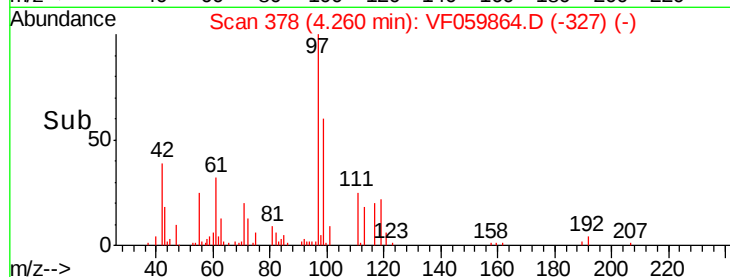
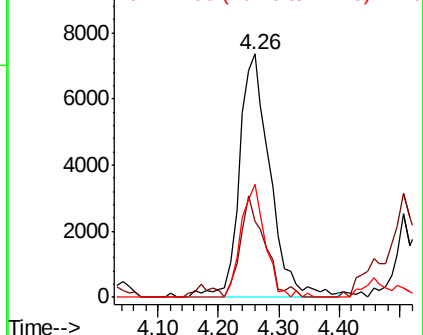
42 100

72 33.0 29.3 43.9

71 36.1 30.0 45.0



Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0



#30

Chloroform

Concen: 22.721 ug/l

RT: 4.03 min Scan# 355

Delta R.T. -0.01 min

Lab File: VF059864.D

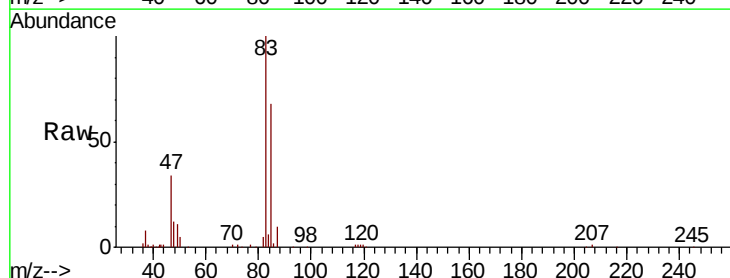
Acq: 4 Aug 2018 4:16

Tgt Ion: 83 Resp: 110272

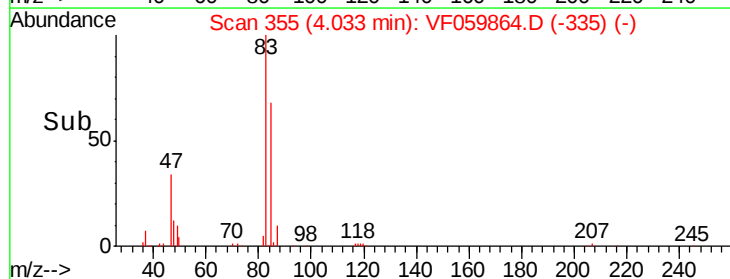
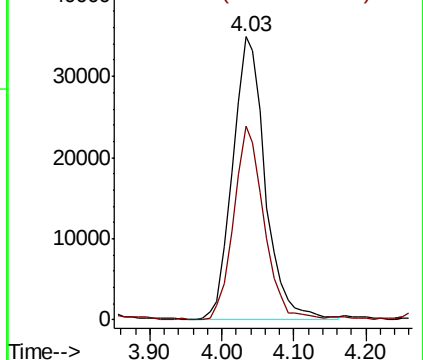
Ion Ratio Lower Upper

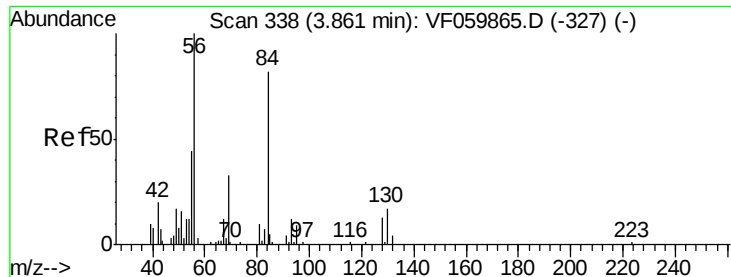
83 100

85 68.2 49.3 73.9



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 85.00 (84.70 to 85.70): VF0

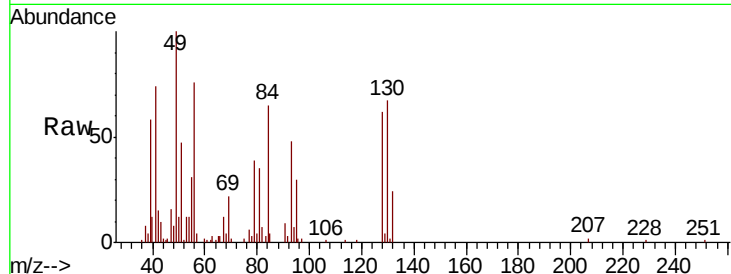




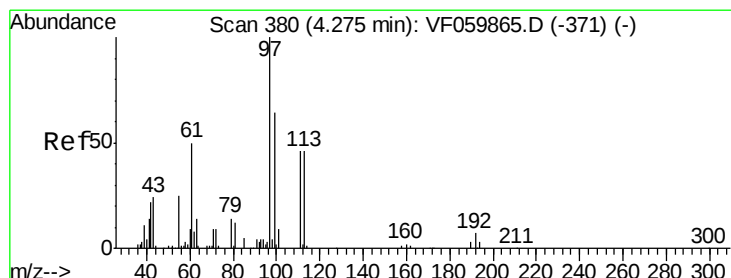
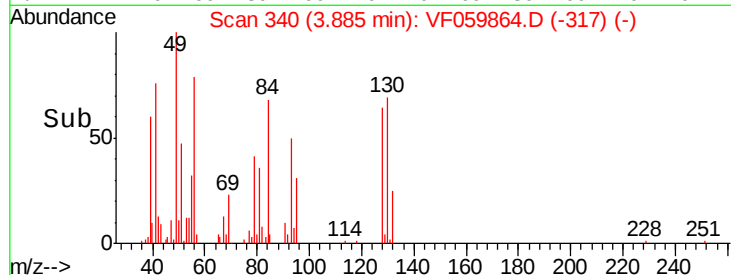
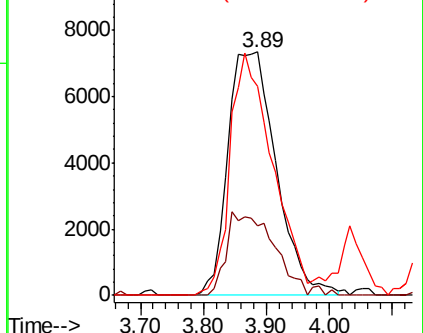
#31
Cyclohexane
Concen: 20.668 ug/l
RT: 3.89 min Scan# 340
Delta R.T. 0.02 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 56 Resp: 38996
Ion Ratio Lower Upper
56 100
69 28.6 26.7 40.1
84 86.0 65.9 98.9

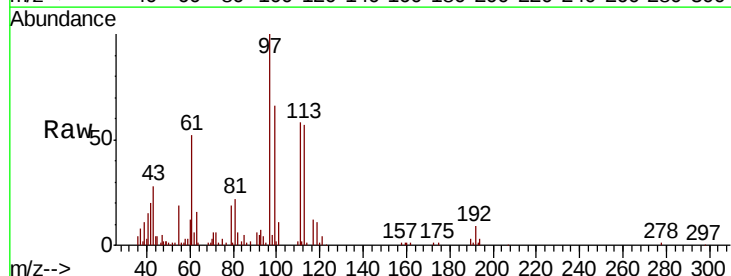


Abundance Ion 56.00 (55.70 to 56.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 84.00 (83.70 to 84.70): VF0

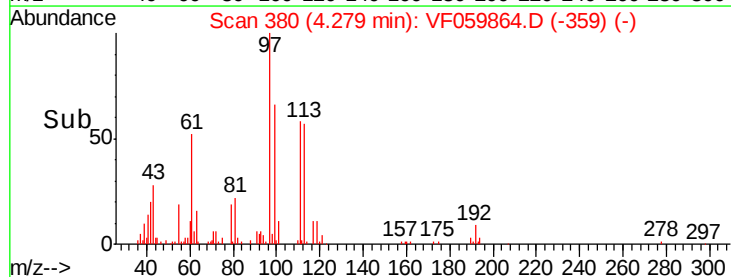
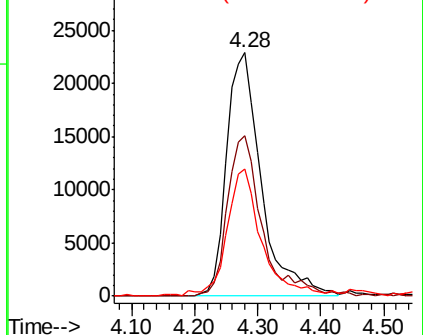


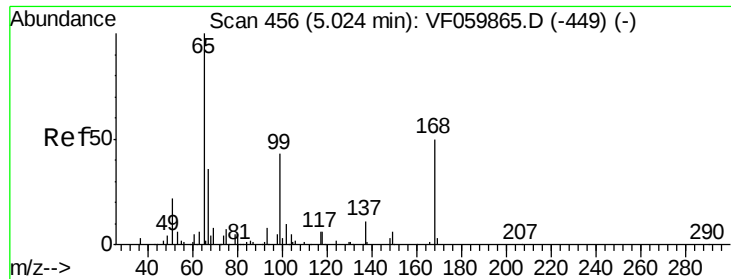
#32
1,1,1-Trichloroethane
Concen: 22.979 ug/l
RT: 4.28 min Scan# 380
Delta R.T. 0.00 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Tgt Ion: 97 Resp: 87431
Ion Ratio Lower Upper
97 100
99 66.0 51.4 77.2
61 52.4 40.8 61.2



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

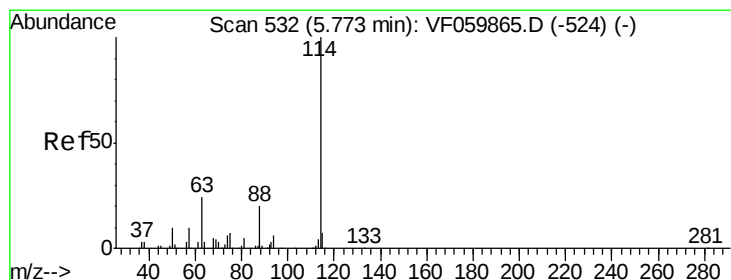
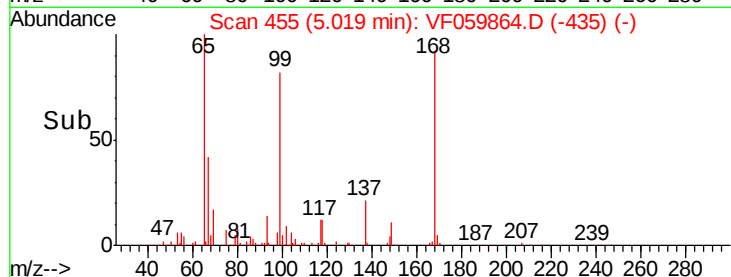
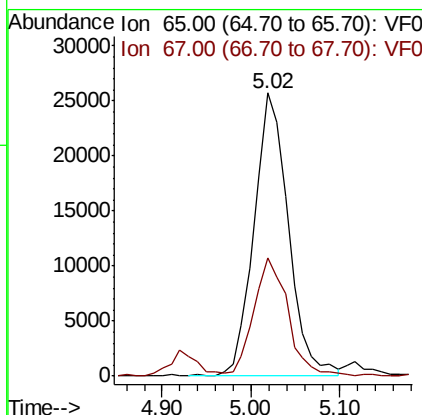
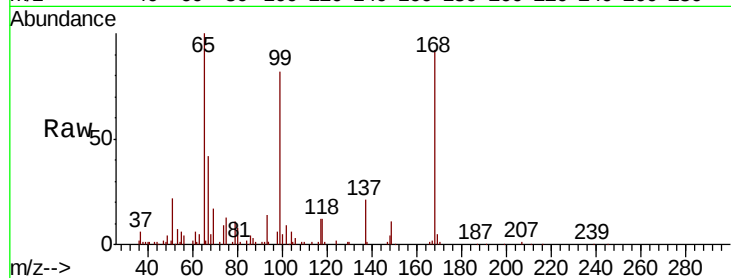




#33
 1,2-Dichloroethane-d4
 Concen: 20.361 ug/l
 RT: 5.02 min Scan# 455
 Delta R.T. -0.01 min
 Lab File: VF059864.D
 Acq: 4 Aug 2018 4:16

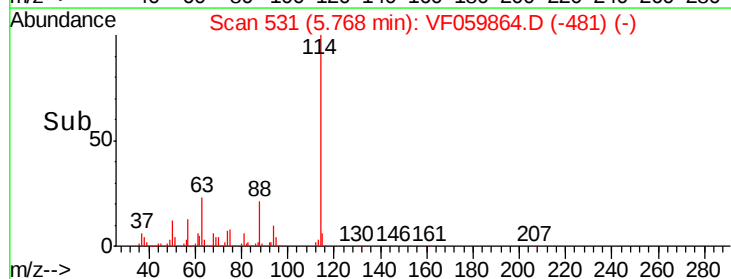
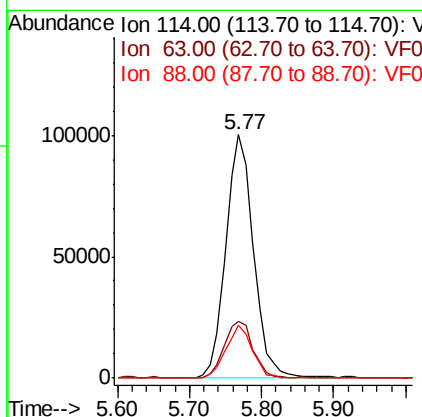
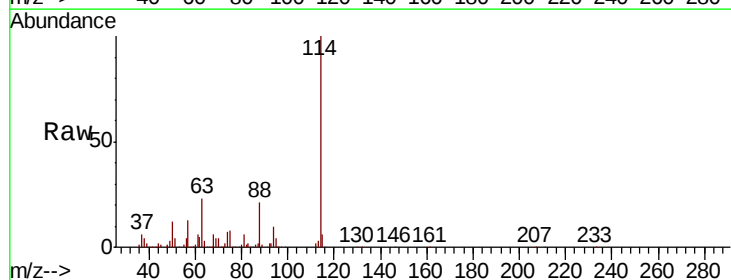
Instrument :
 MSVOA_F
 ClientSampled :

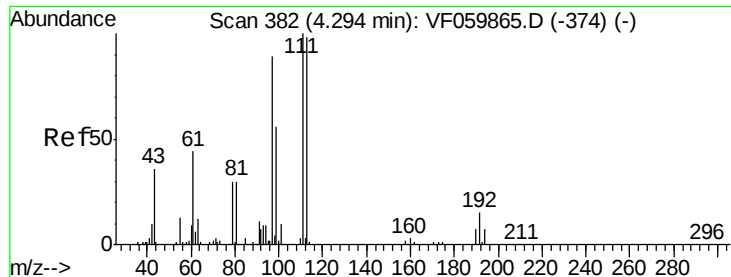
Tot Ion: 65 Resp: 68381
 Ion Ratio Lower Upper
 65 100
 67 42.0 0.0 77.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.77 min Scan# 531
 Delta R.T. -0.01 min
 Lab File: VF059864.D
 Acq: 4 Aug 2018 4:16

Tgt Ion: 114 Resp: 268152
 Ion Ratio Lower Upper
 114 100
 63 23.1 0.0 48.0
 88 21.5 0.0 39.4

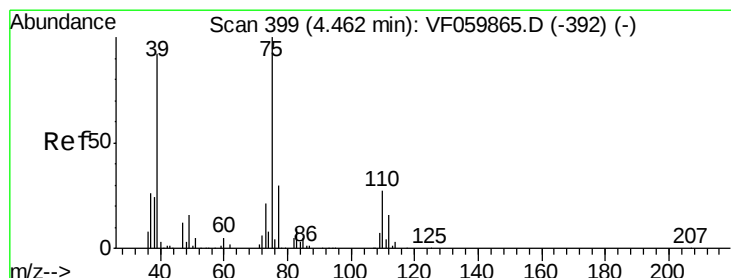
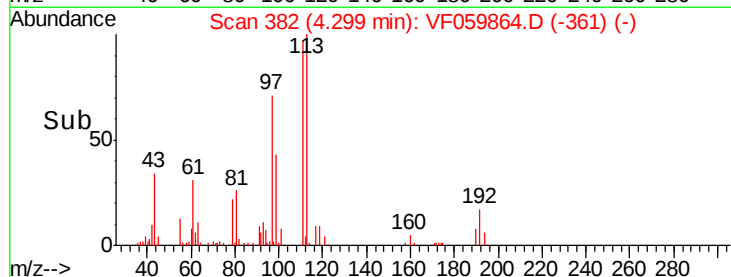
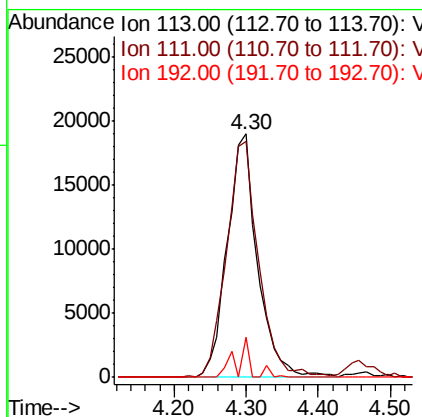
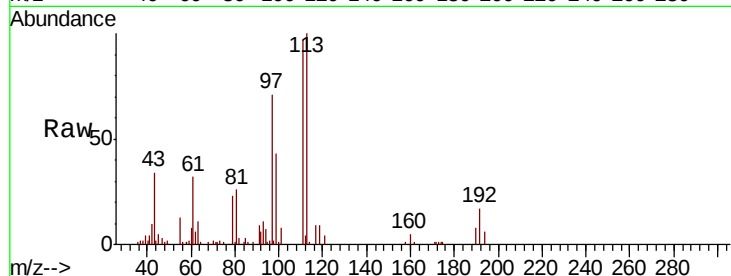




#35
 Dibromofluoromethane
 Concen: 19.846 ug/l
 RT: 4.30 min Scan# 382
 Delta R.T. 0.00 min
 Lab File: VF059864.D
 Acq: 4 Aug 2018 4:16

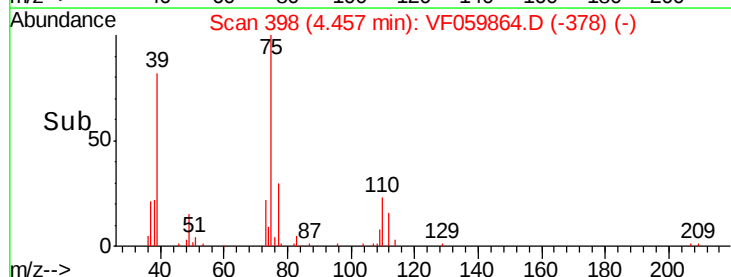
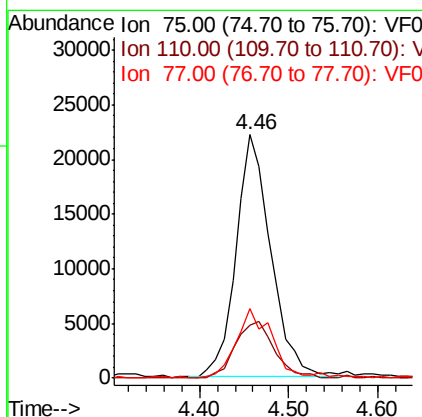
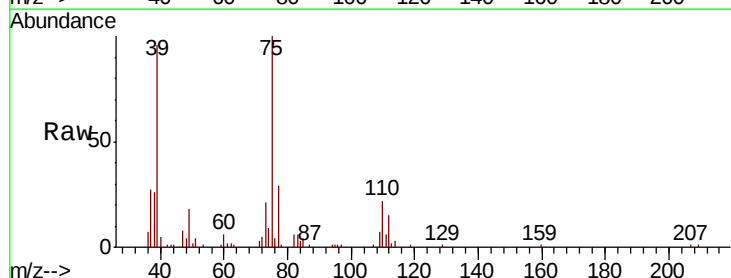
Instrument :
 MSVOA_F
 ClientSampleId :

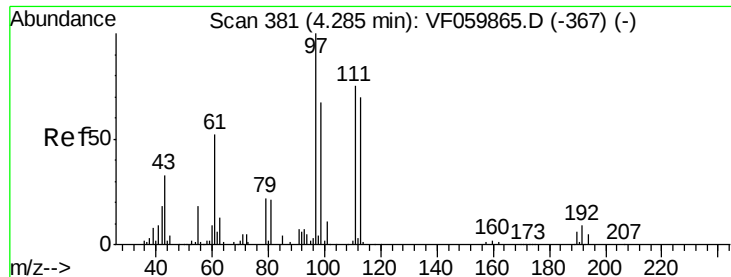
Tot Ion:113 Resp: 55668
 Ion Ratio Lower Upper
 113 100
 111 97.0 81.8 122.8
 192 16.5 12.4 18.6



#36
 1,1-Dichloropropene
 Concen: 18.916 ug/l
 RT: 4.46 min Scan# 398
 Delta R.T. -0.01 min
 Lab File: VF059864.D
 Acq: 4 Aug 2018 4:16

Tgt Ion: 75 Resp: 60347
 Ion Ratio Lower Upper
 75 100
 110 22.0 13.6 40.7
 77 28.6 23.7 35.5

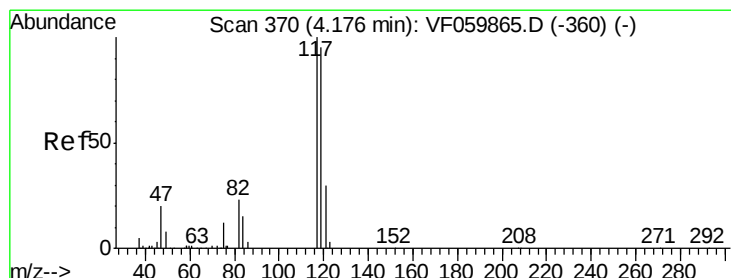
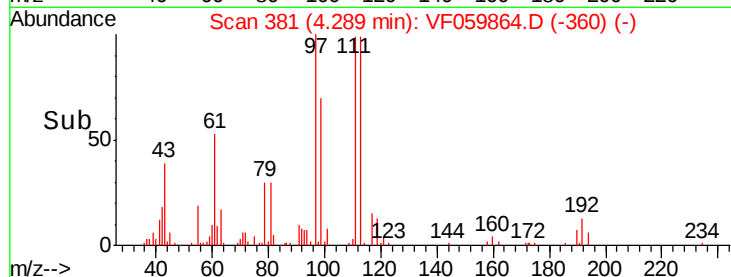
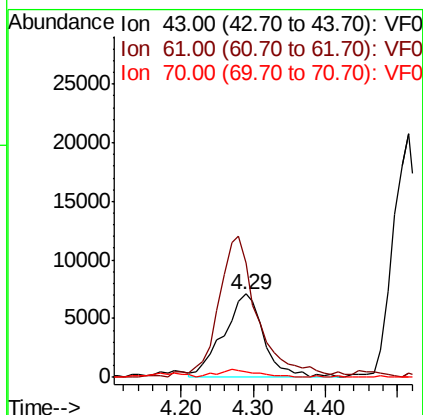
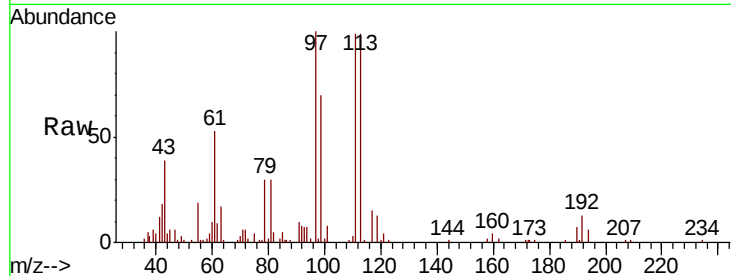




#37
Ethyl Acetate
Concen: 17.740 ug/l
RT: 4.29 min Scan# 381
Delta R.T. 0.00 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

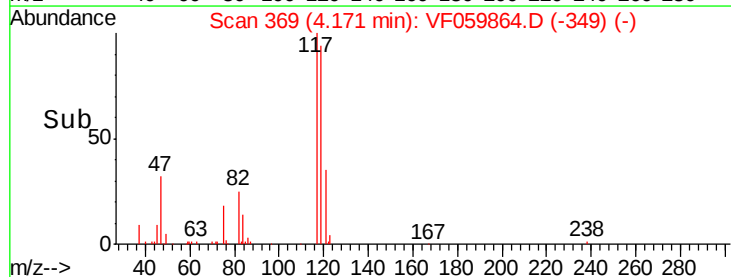
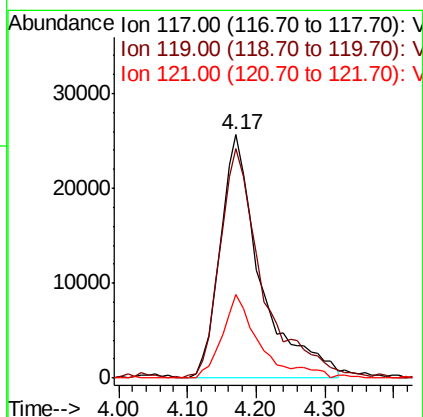
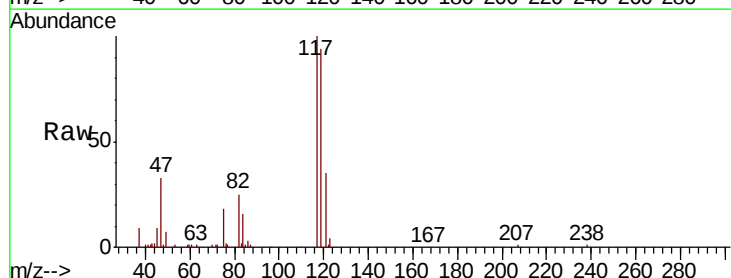
Instrument :
MSVOA_F
ClientSampleId :

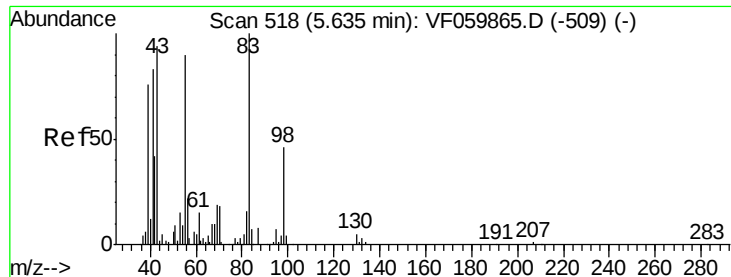
Tot Ion: 43 Resp: 27546
Ion Ratio Lower Upper
43 100
61 137.1 123.7 185.5
70 7.4 7.8 11.8#



#38
Carbon Tetrachloride
Concen: 23.866 ug/l
RT: 4.17 min Scan# 369
Delta R.T. -0.01 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Tgt Ion: 117 Resp: 104419
Ion Ratio Lower Upper
117 100
119 94.0 76.5 114.7
121 34.6 23.8 35.8

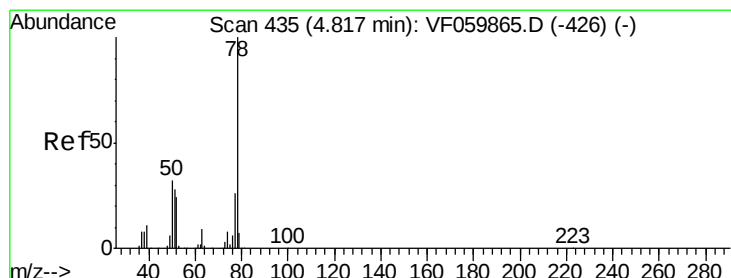
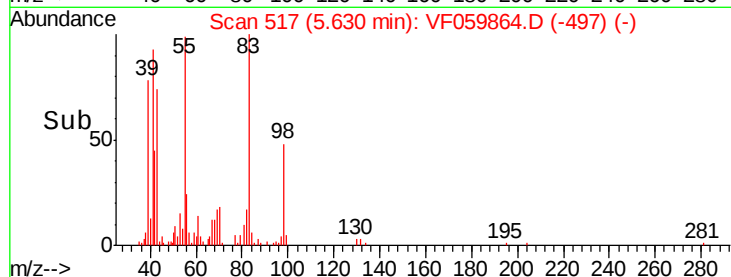
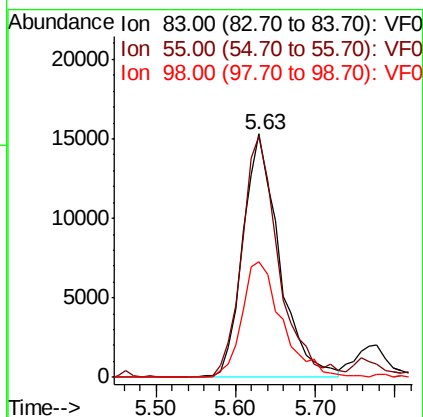
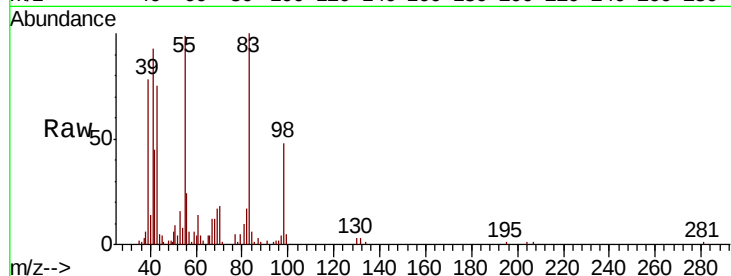




#39
Methvlcvclohexane
Concen: 20.067 ug/l
RT: 5.63 min Scan# 517
Delta R.T. -0.01 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

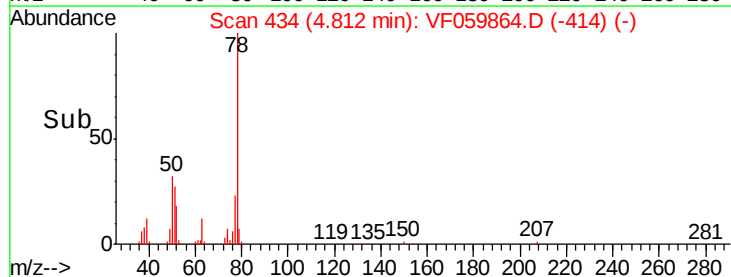
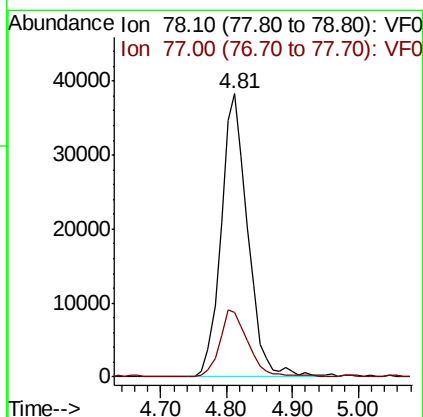
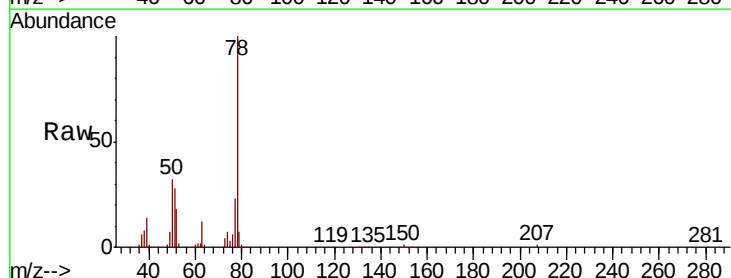
Instrument :
MSVOA_F
ClientSampleId :

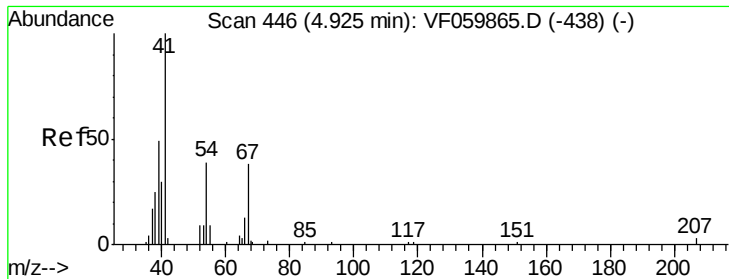
Tot Ion: 83 Resp: 48304
Ion Ratio Lower Upper
83 100
55 99.2 72.0 108.0
98 47.7 36.6 54.8



#40
Benzene
Concen: 19.571 ug/l
RT: 4.81 min Scan# 434
Delta R.T. -0.01 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Tgt Ion: 78 Resp: 108355
Ion Ratio Lower Upper
78 100
77 23.0 20.7 31.1

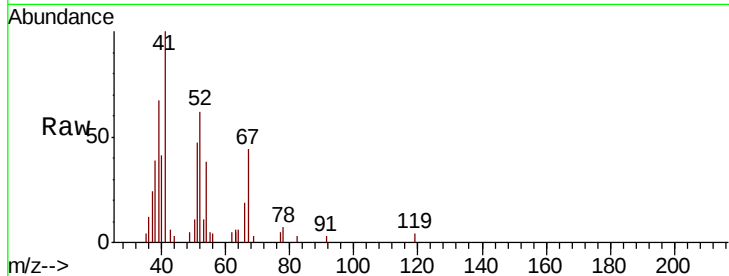




#41
Methacrylonitrile
Concen: 17.297 ug/l
RT: 4.93 min Scan# 446
Delta R.T. 0.00 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
41	100		
39	67.1	55.1	82.7
67	44.3	30.3	45.5
52	61.5	36.0	54.0



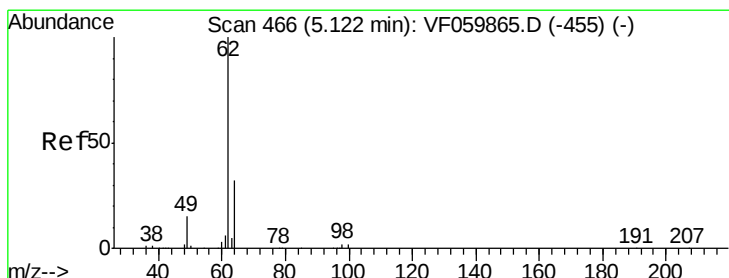
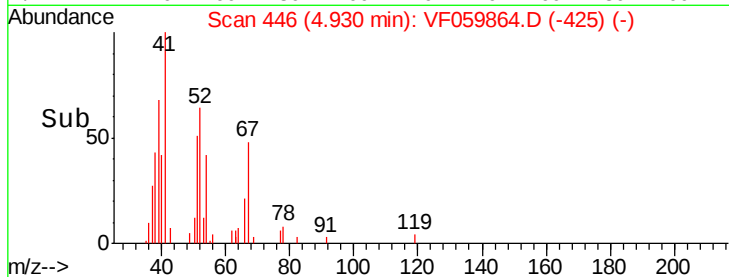
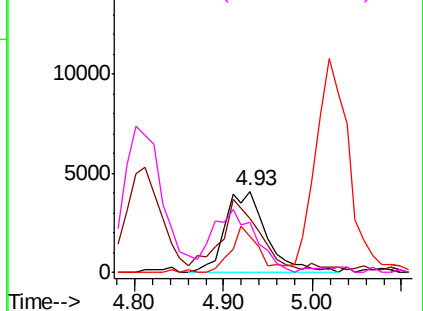
Abundance

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

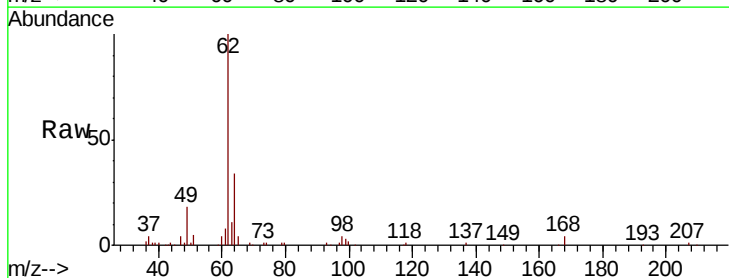
Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42
1,2-Dichloroethane
Concen: 22.278 ug/l
RT: 5.12 min Scan# 465
Delta R.T. -0.01 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

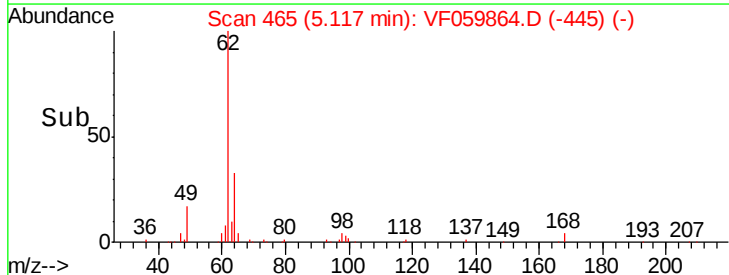
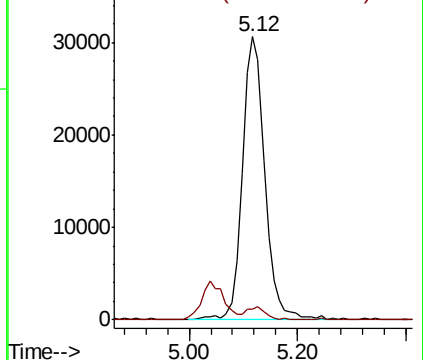
Tgt Ion	Ratio	Lower	Upper
62	100		
98	3.9	0.0	7.6

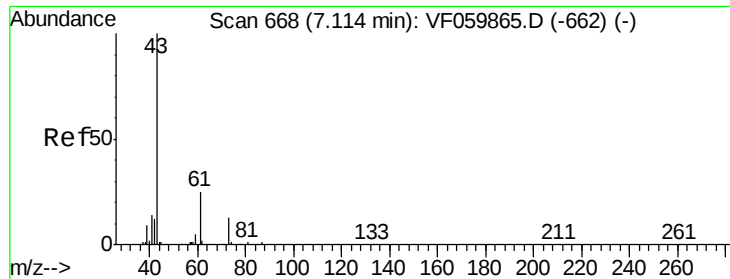


Abundance

Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



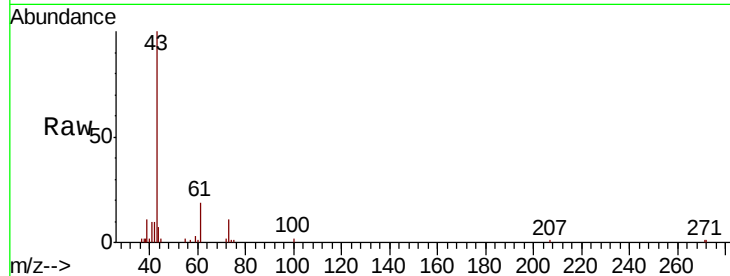


#43

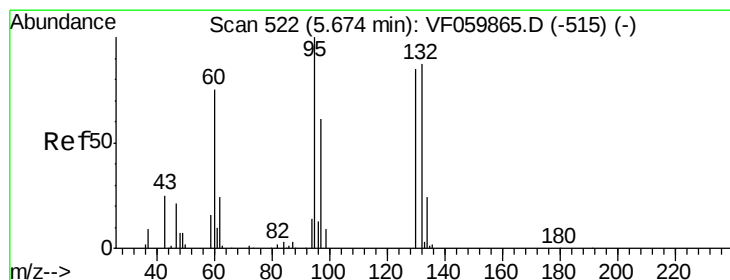
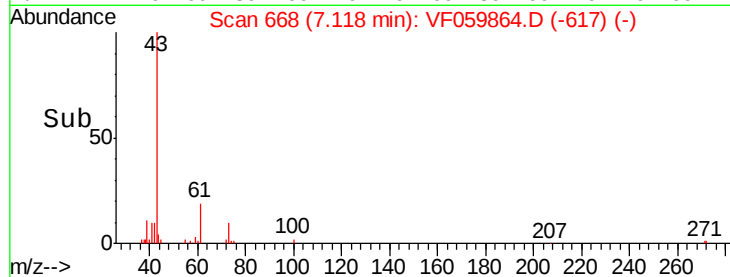
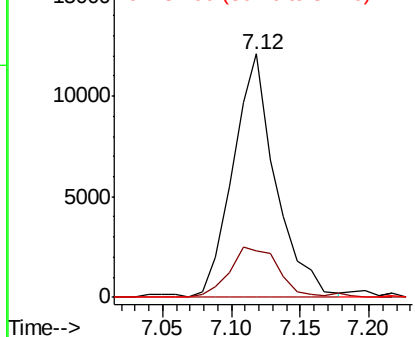
Isopropyl Acetate
 Concen: 16.390 ug/l
 RT: 7.12 min Scan# 668
 Delta R.T. 0.00 min
 Lab File: VF059864.D
 Acq: 4 Aug 2018 4:16

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
43	100		
61	19.0	20.3	30.5#
87	0.0	0.7	1.1#



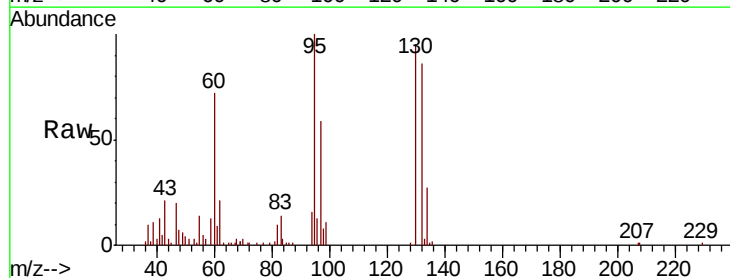
Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 87.00 (86.70 to 87.70): VF0



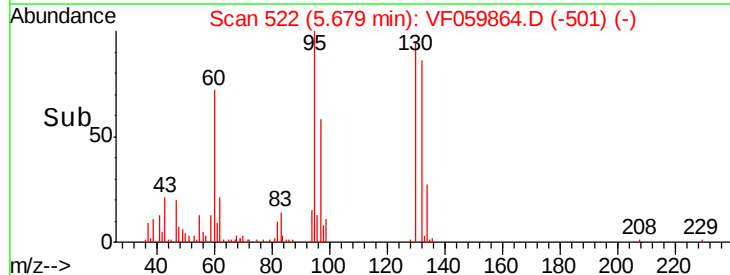
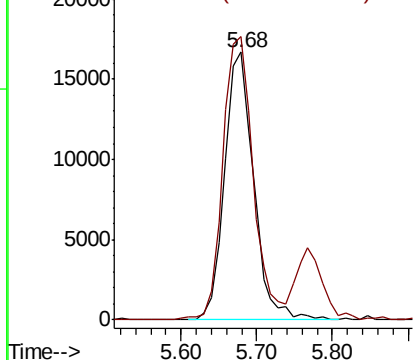
#44

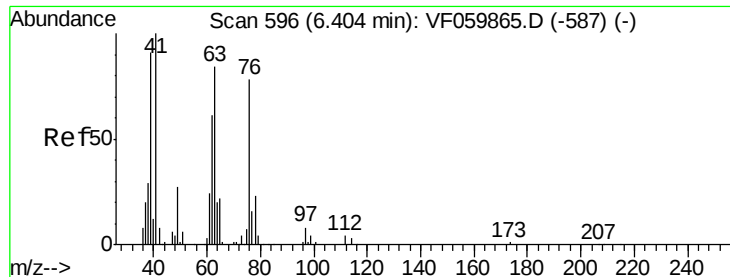
Trichloroethene
 Concen: 20.627 ug/l
 RT: 5.68 min Scan# 522
 Delta R.T. 0.00 min
 Lab File: VF059864.D
 Acq: 4 Aug 2018 4:16

Tgt Ion	Ratio	Lower	Upper
130	100		
95	105.8	0.0	236.8



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





#45

1,2-Dichloropropane

Concen: 20.060 ug/l

RT: 6.40 min Scan# 595

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

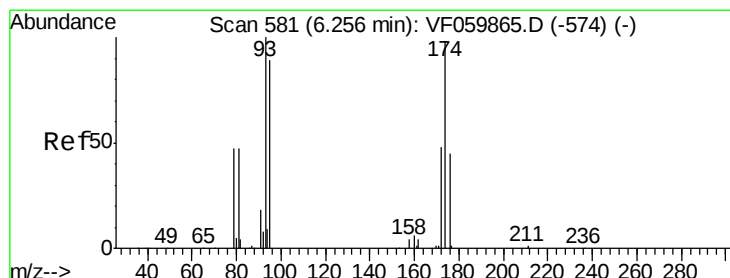
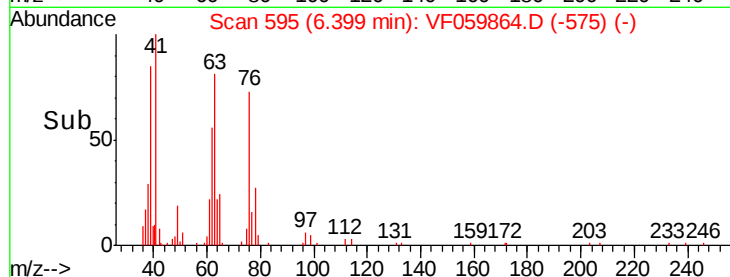
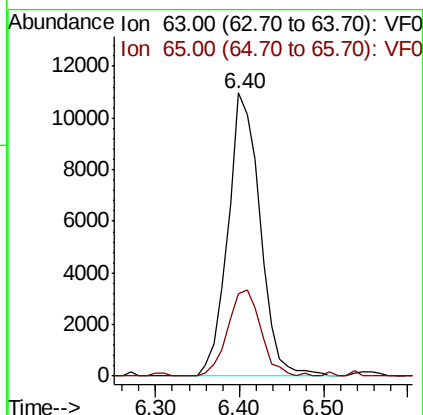
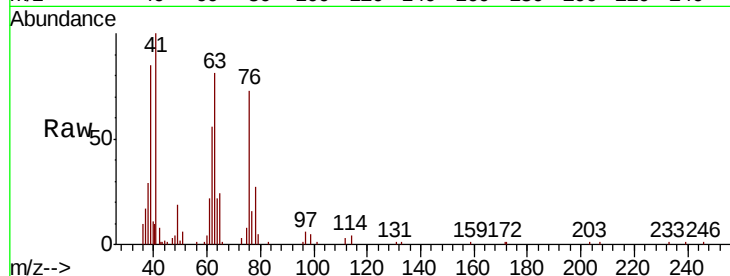
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 63 Resp: 29177

Ion Ratio Lower Upper

63 100

65 29.2 20.4 30.6



#46

Dibromomethane

Concen: 20.881 ug/l

RT: 6.25 min Scan# 580

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

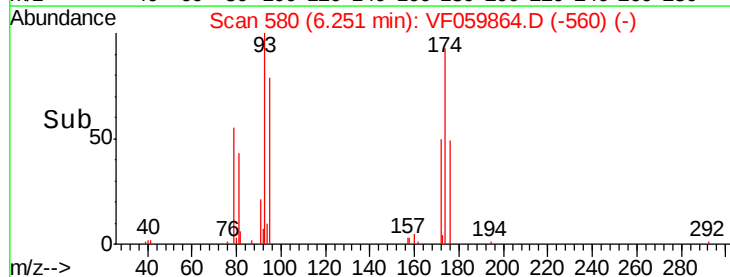
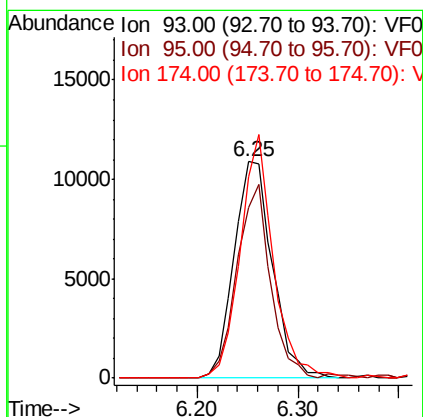
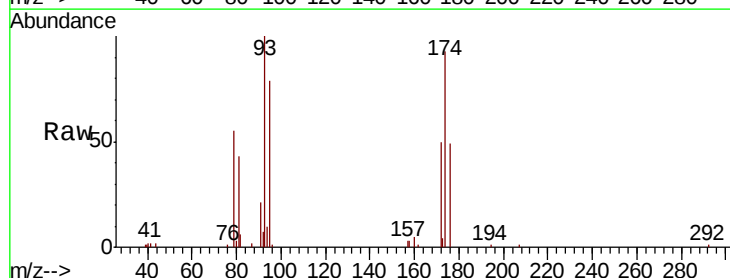
Tgt Ion: 93 Resp: 28921

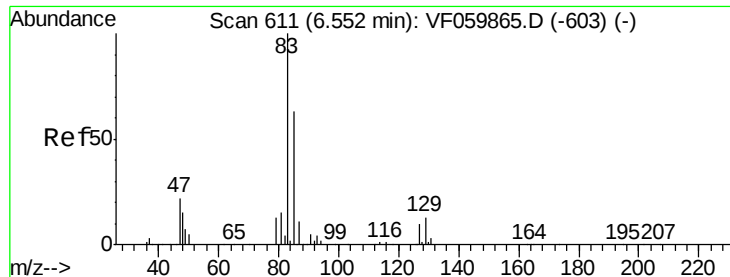
Ion Ratio Lower Upper

93 100

95 79.1 71.4 107.2

174 93.1 78.1 117.1





#47

Bromodichloromethane

Concen: 20.666 ug/l

RT: 6.55 min Scan# 610

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :
MSVOA_F
ClientSampleId :

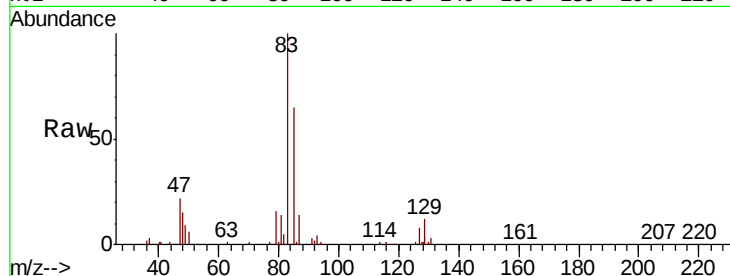
Tot Ion: 83 Resp: 78472

Ion Ratio Lower Upper

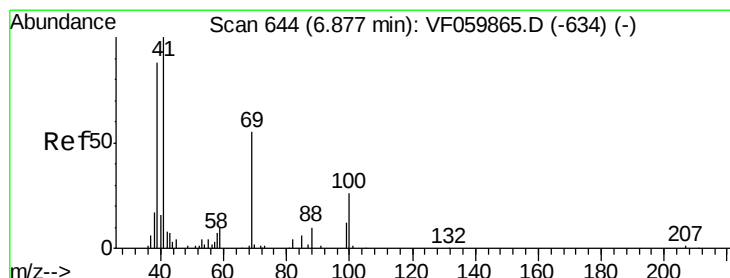
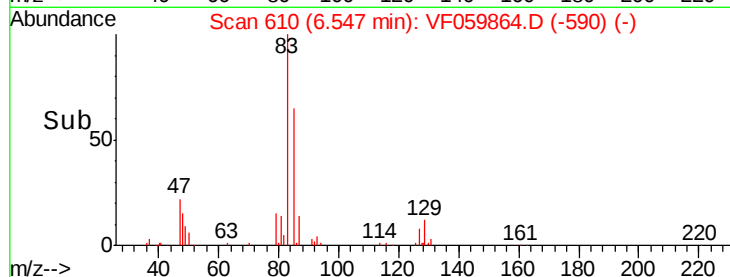
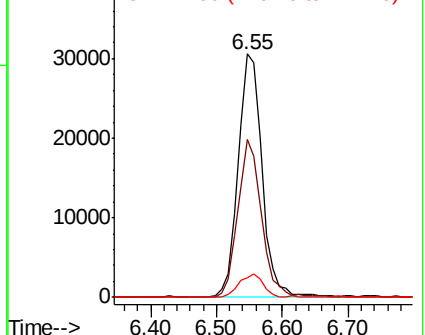
83 100

85 65.0 50.7 76.1

127 9.1 8.0 12.0



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 85.00 (84.70 to 85.70): VF0
Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 17.246 ug/l

RT: 6.88 min Scan# 644

Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

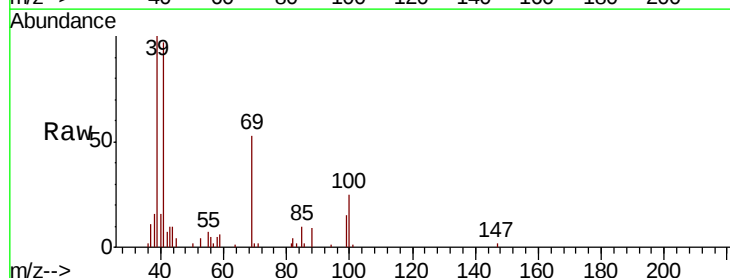
Tgt Ion: 41 Resp: 20775

Ion Ratio Lower Upper

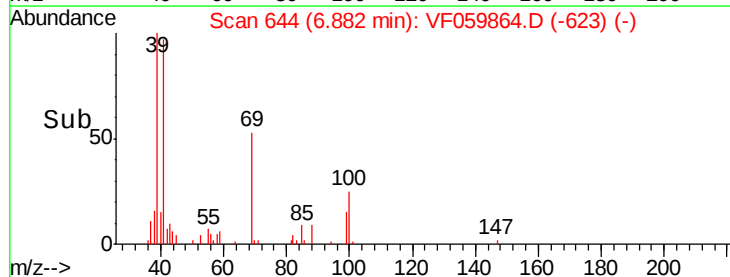
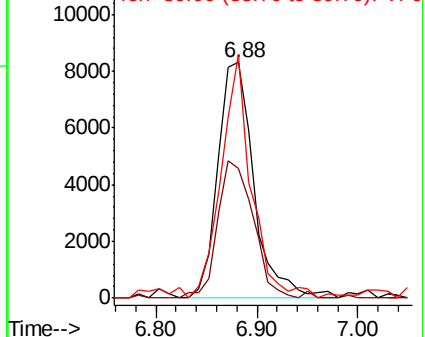
41 100

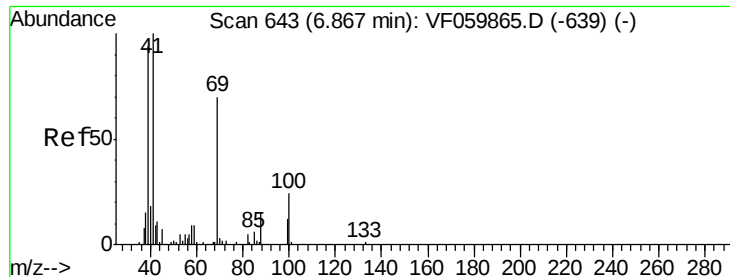
69 55.2 44.4 66.6

39 103.2 70.6 106.0



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: 291.534 ug/l

RT: 6.87 min Scan# 643

Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :
MSVOA_F
ClientSampleId :

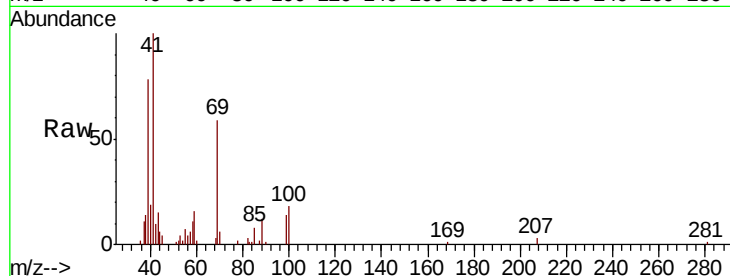
Tot Ion: 88 Resp: 2707

Ion Ratio Lower Upper

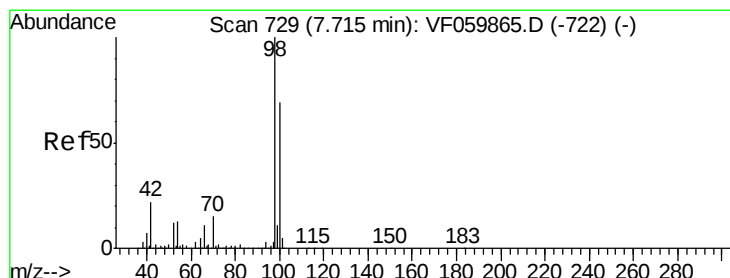
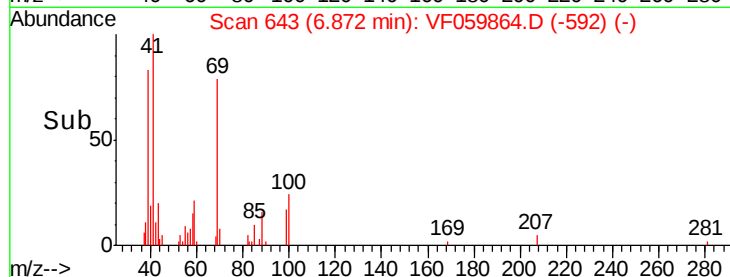
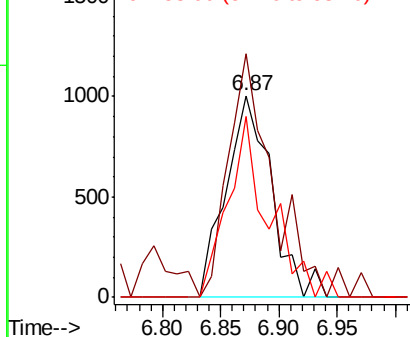
88 100

43 120.8 58.3 87.5#

58 89.6 49.4 74.2#



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: 18.244 ug/l

RT: 7.71 min Scan# 728

Delta R.T. -0.01 min

Lab File: VF059864.D

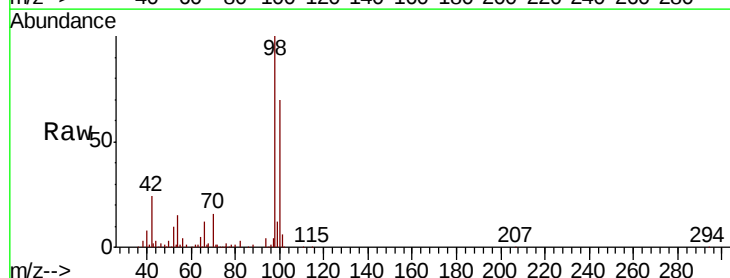
Acq: 4 Aug 2018 4:16

Tgt Ion: 98 Resp: 118275

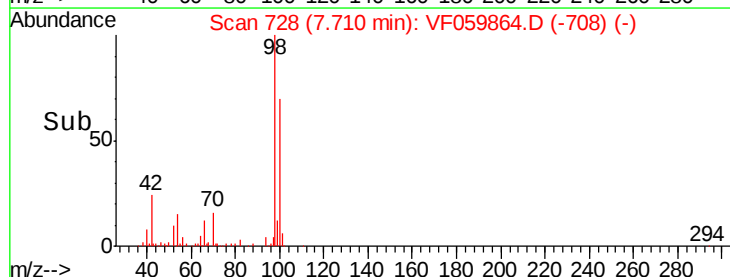
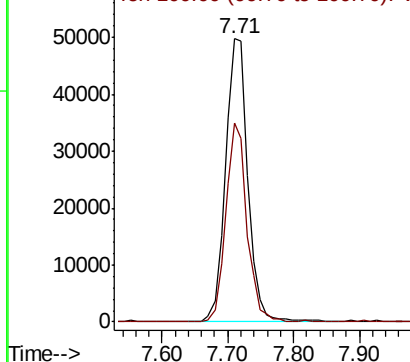
Ion Ratio Lower Upper

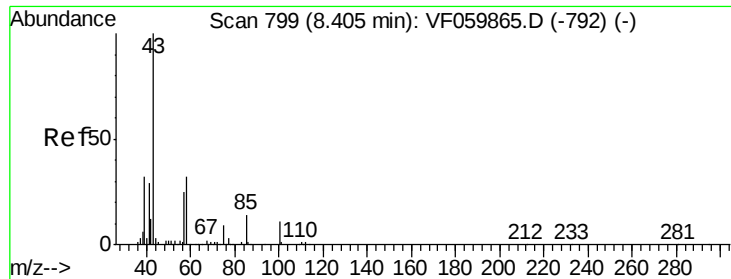
98 100

100 70.5 55.0 82.6



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: 116.791 ug/l

RT: 8.41 min Scan# 799

Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

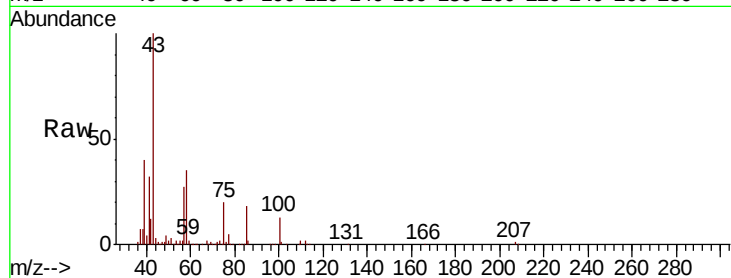
ClientSampleId :

Tot Ion: 43 Resp: 147787

Ion Ratio Lower Upper

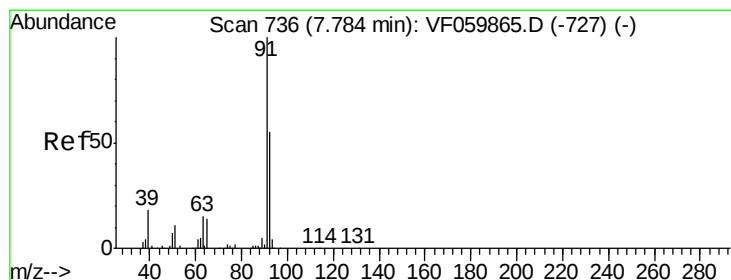
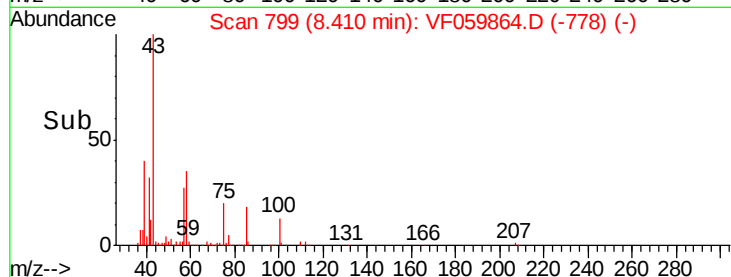
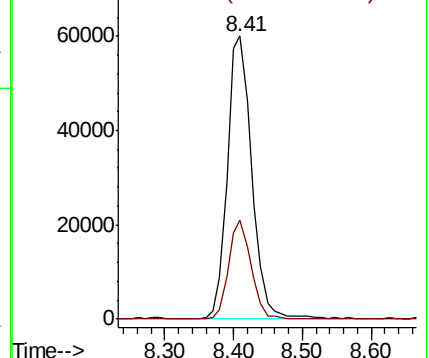
43 100

58 34.8 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 19.510 ug/l

RT: 7.78 min Scan# 735

Delta R.T. -0.01 min

Lab File: VF059864.D

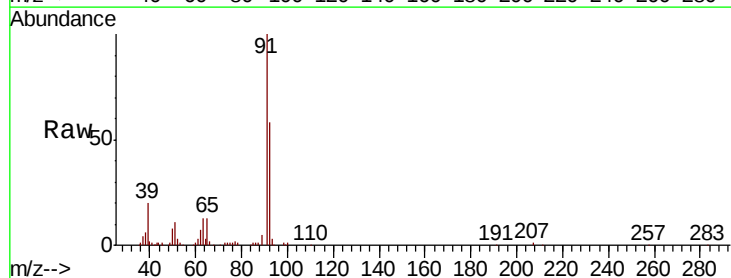
Acq: 4 Aug 2018 4:16

Tgt Ion: 92 Resp: 80166

Ion Ratio Lower Upper

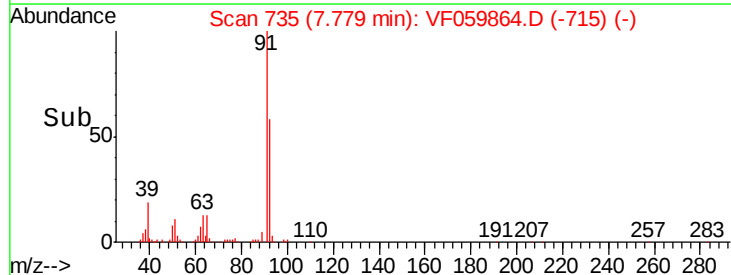
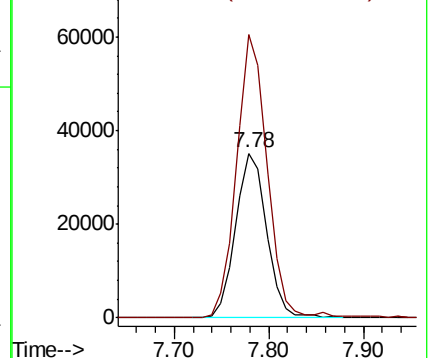
92 100

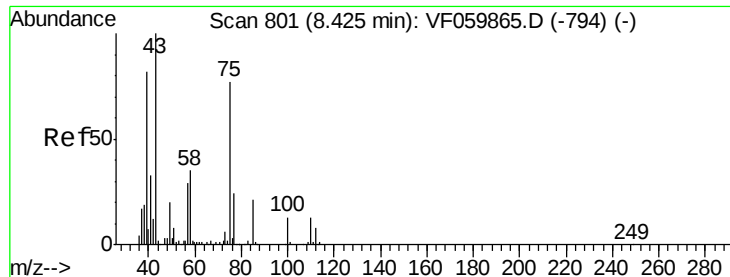
91 172.1 145.7 218.5



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

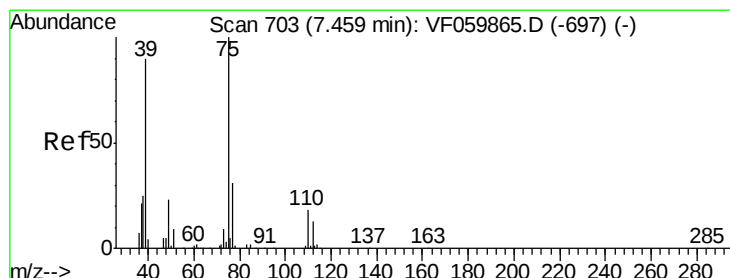
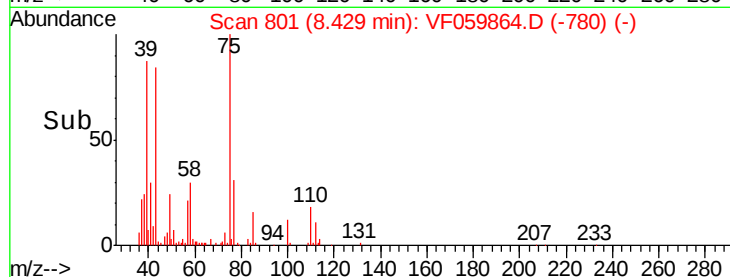
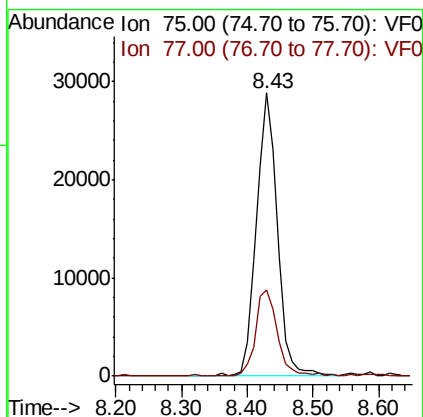
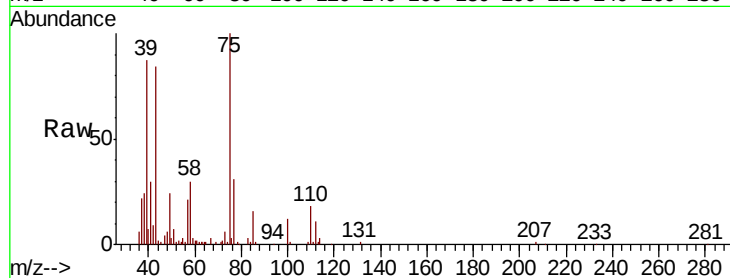




#53
 t-1,3-Dichloropropene
 Concen: 20.016 ug/l
 RT: 8.43 min Scan# 801
 Delta R.T. 0.00 min
 Lab File: VF059864.D
 Acq: 4 Aug 2018 4:16

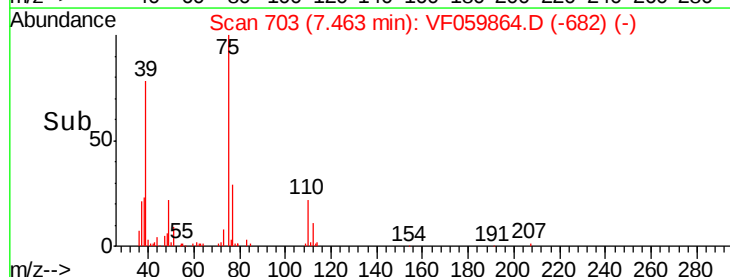
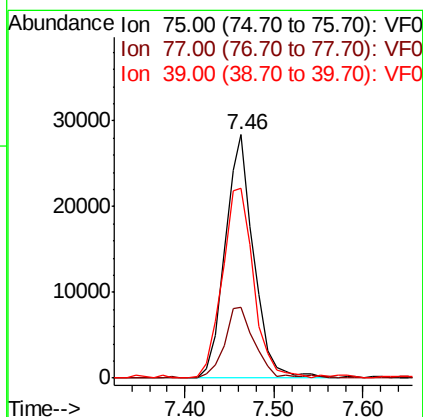
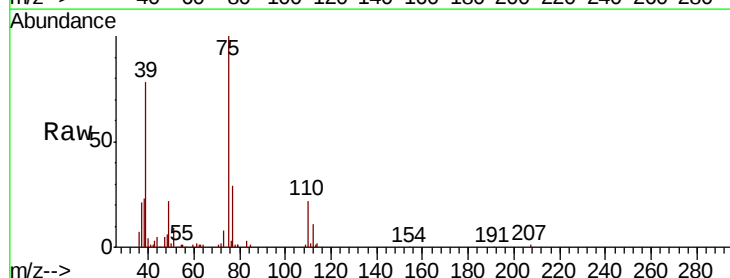
Instrument :
 MSVOA_F
 ClientSampleId :

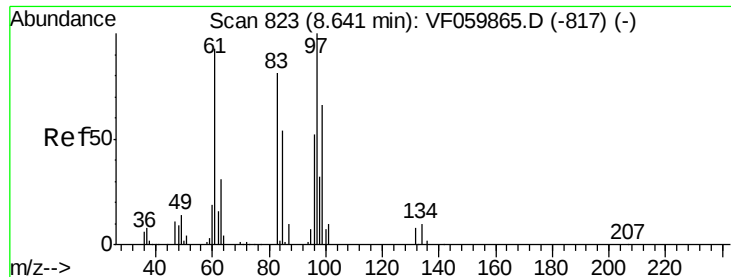
Tot Ion: 75 Resp: 64597
 Ion Ratio Lower Upper
 75 100
 77 30.7 24.5 36.7



#54
 cis-1,3-Dichloropropene
 Concen: 20.171 ug/l
 RT: 7.46 min Scan# 703
 Delta R.T. 0.00 min
 Lab File: VF059864.D
 Acq: 4 Aug 2018 4:16

Tgt Ion: 75 Resp: 63742
 Ion Ratio Lower Upper
 75 100
 77 29.2 24.7 37.1
 39 77.8 72.0 108.0





#55

1,1,2-Trichloroethane

Concen: 19.460 ug/l

RT: 8.64 min Scan# 822

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 97 Resp: 28647

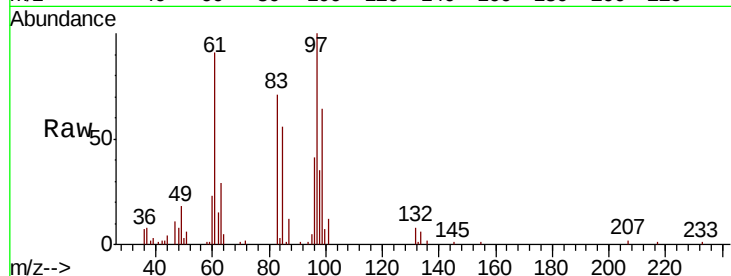
Ion Ratio Lower Upper

97 100

83 71.1 64.4 96.6

85 55.7 43.1 64.7

99 63.7 52.7 79.1

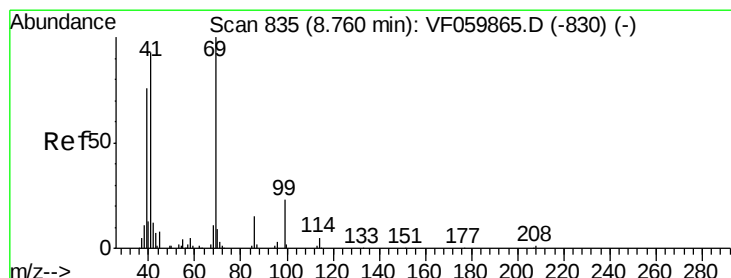
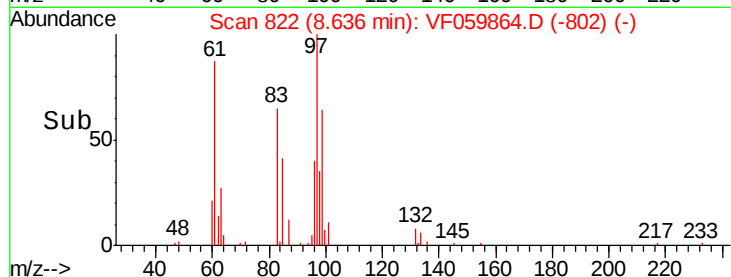
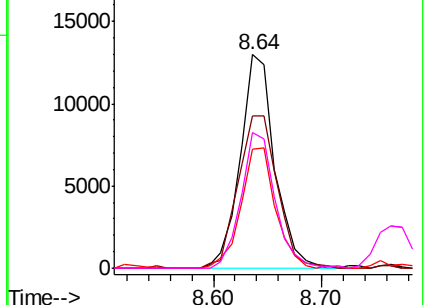


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 17.343 ug/l

RT: 8.76 min Scan# 835

Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

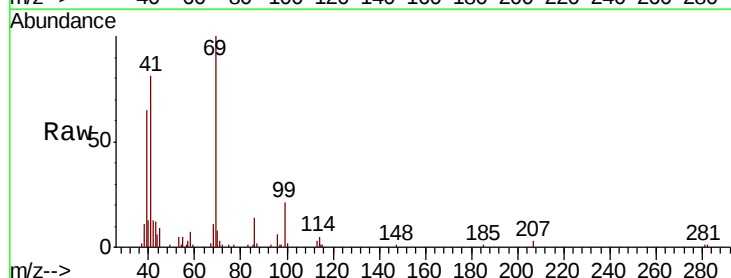
Tgt Ion: 69 Resp: 26412

Ion Ratio Lower Upper

69 100

41 81.0 74.7 112.1

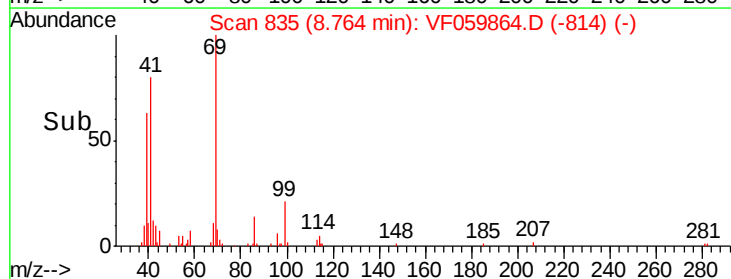
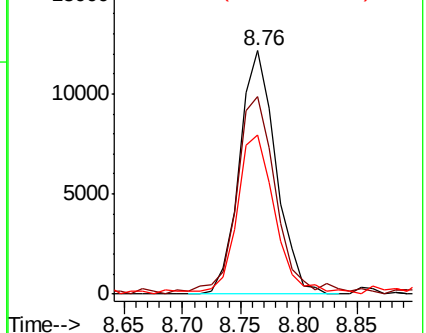
39 65.2 61.1 91.7

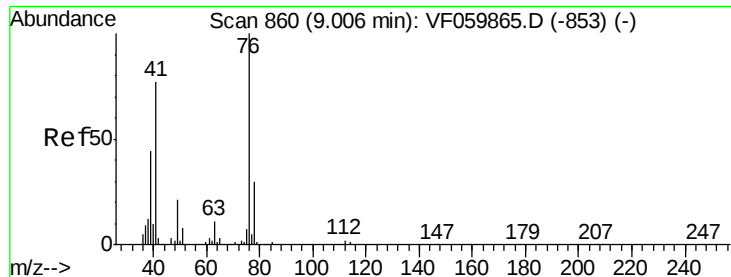


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 19.486 ug/l

RT: 9.00 min Scan# 859

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

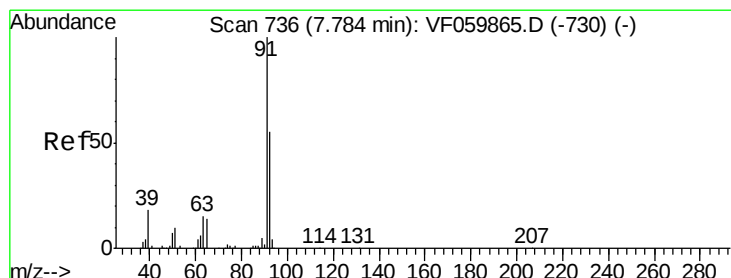
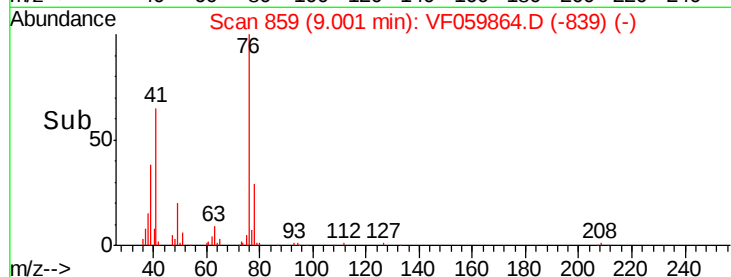
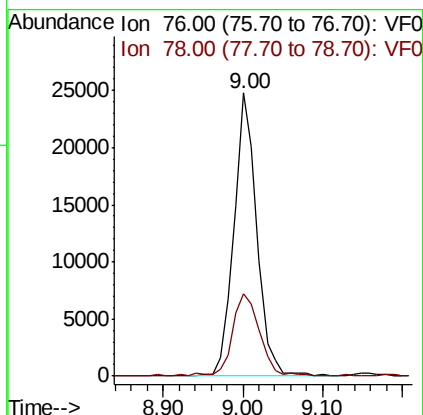
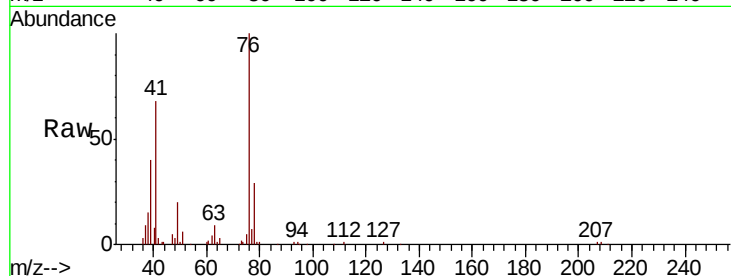
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 76 Resp: 49745

Ion Ratio Lower Upper

76 100

78 29.0 24.2 36.2



#58

2-Chloroethyl Vinyl ether

Concen: 100.657 ug/l

RT: 7.78 min Scan# 735

Delta R.T. -0.01 min

Lab File: VF059864.D

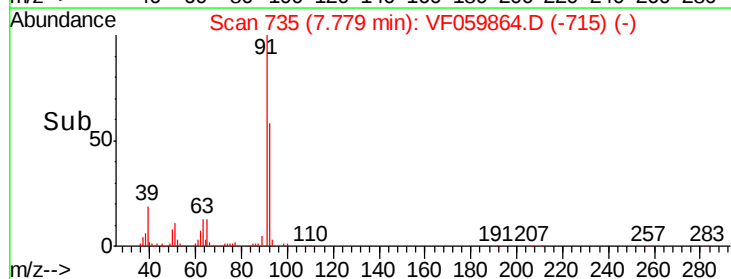
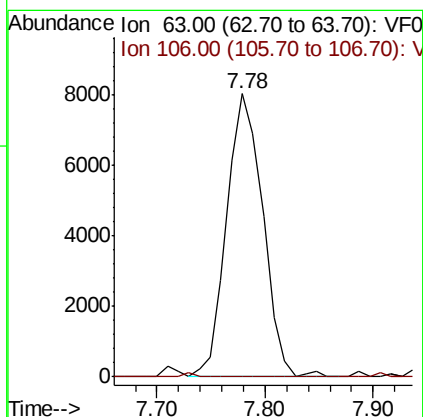
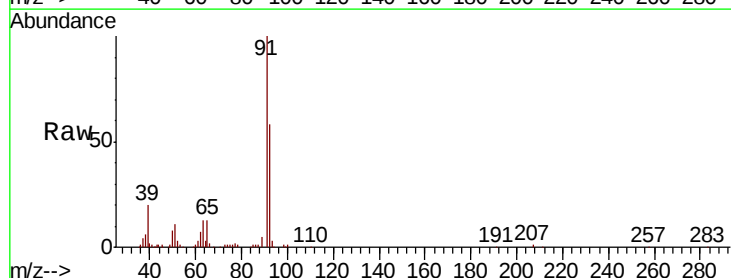
Acq: 4 Aug 2018 4:16

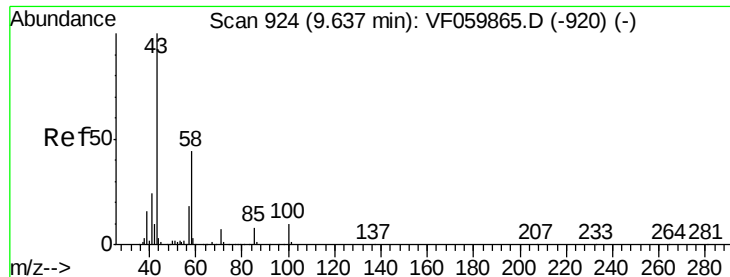
Tgt Ion: 63 Resp: 18653

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

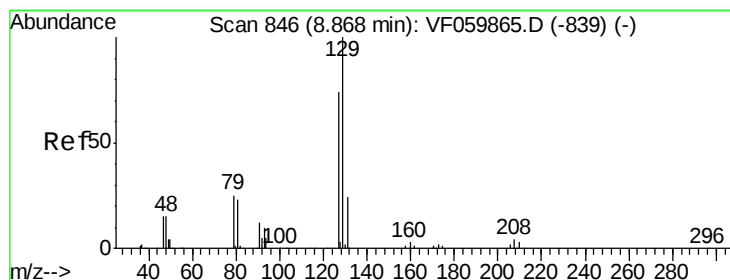
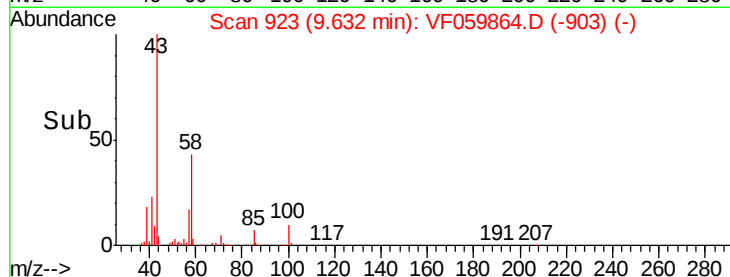
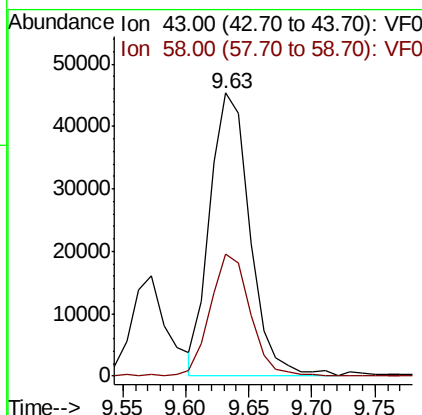
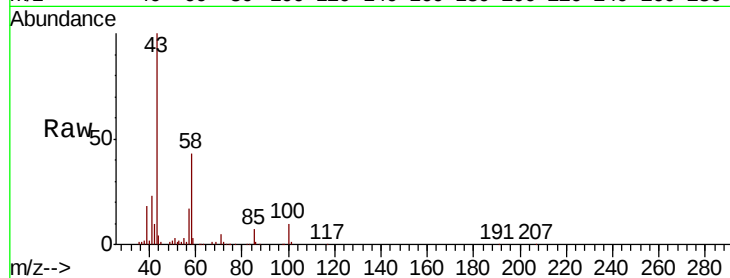




#59
2-Hexanone
Concen: 99.576 ug/l
RT: 9.63 min Scan# 923
Delta R.T. -0.01 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

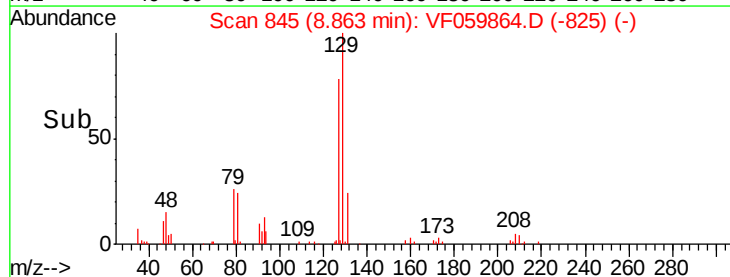
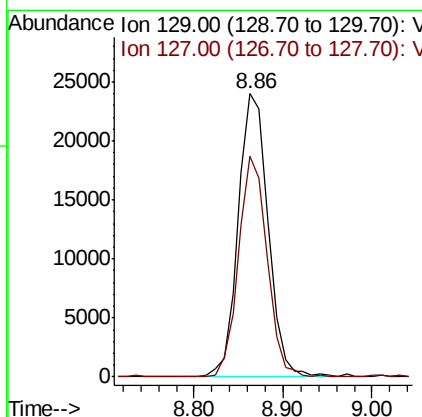
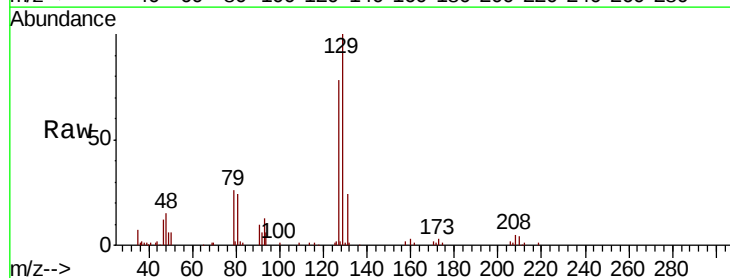
Instrument :
MSVOA_F
ClientSampleId :

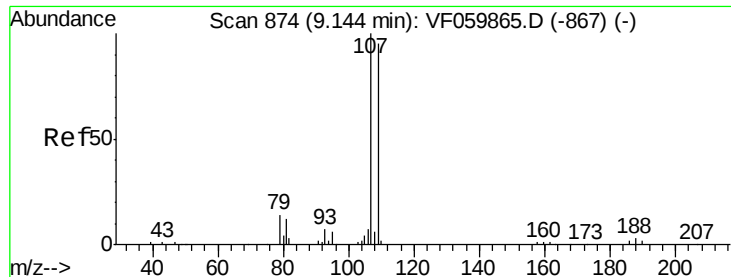
Tot Ion: 43 Resp: 99523
Ion Ratio Lower Upper
43 100
58 42.9 20.8 62.2



#60
Dibromochloromethane
Concen: 21.148 ug/l
RT: 8.86 min Scan# 845
Delta R.T. -0.01 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Tgt Ion: 129 Resp: 55991
Ion Ratio Lower Upper
129 100
127 78.0 36.9 110.7





#61

1,2-Dibromoethane

Concen: 20.223 ug/l

RT: 9.14 min Scan# 873

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

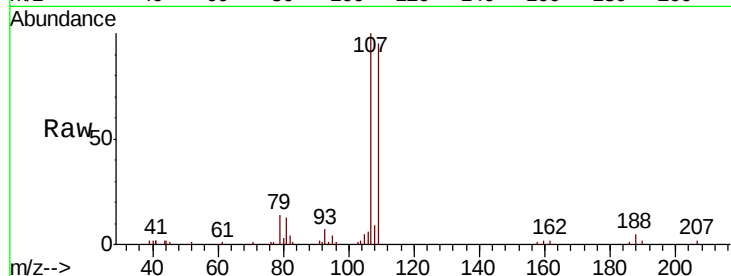
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:107 Resp: 35338

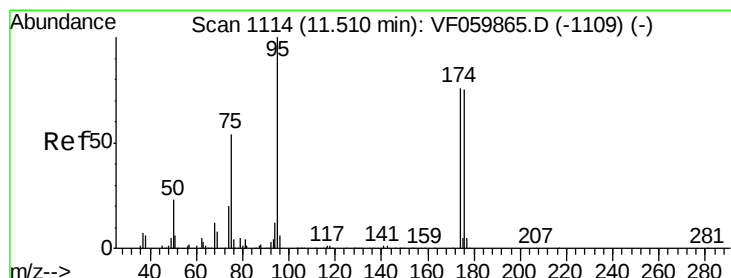
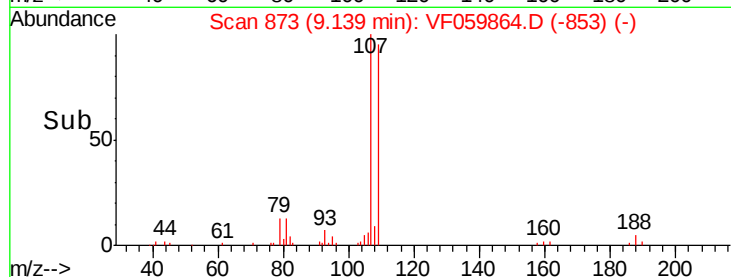
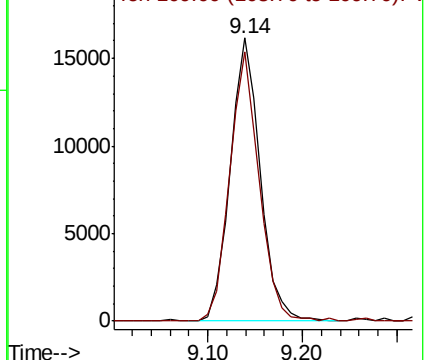
Ion Ratio Lower Upper

107 100

109 95.0 75.8 113.8



Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 18.405 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

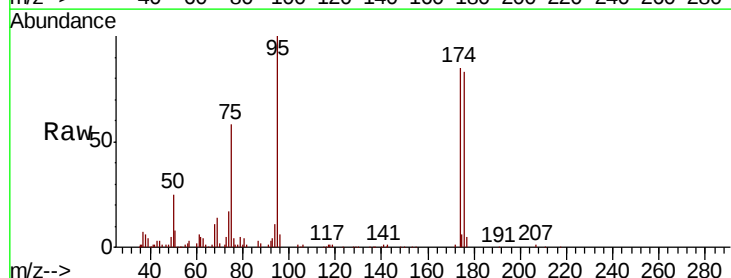
Tgt Ion: 95 Resp: 66022

Ion Ratio Lower Upper

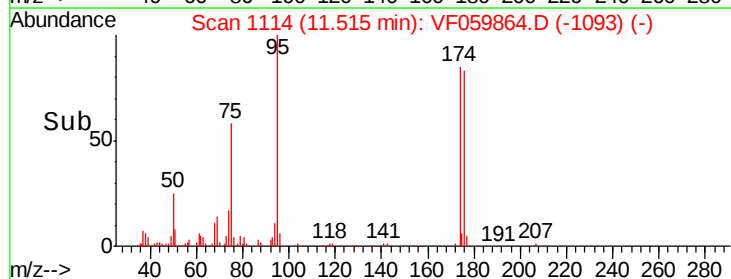
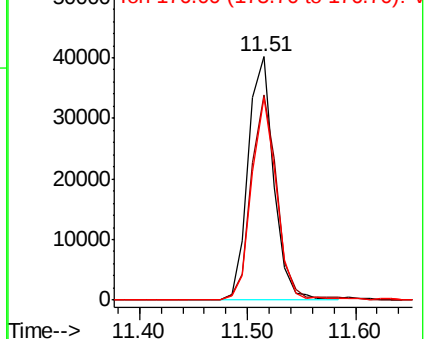
95 100

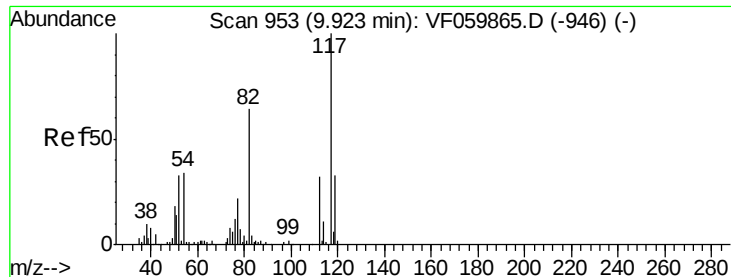
174 84.5 0.0 151.6

176 83.3 0.0 149.8



Abundance Ion 95.00 (94.70 to 95.70): VF0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V

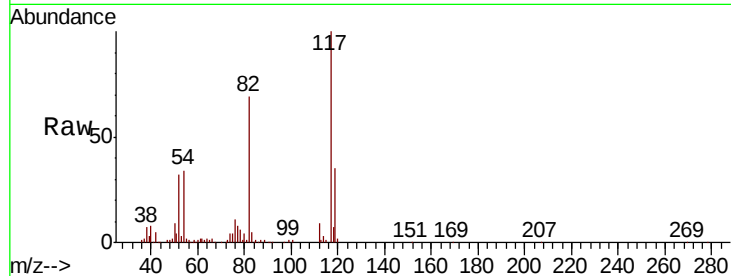




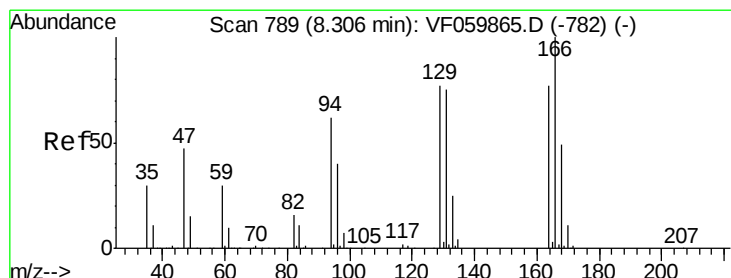
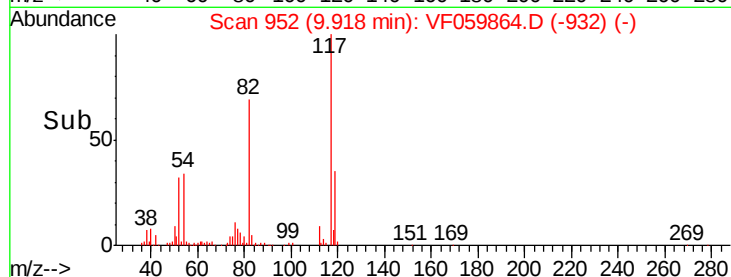
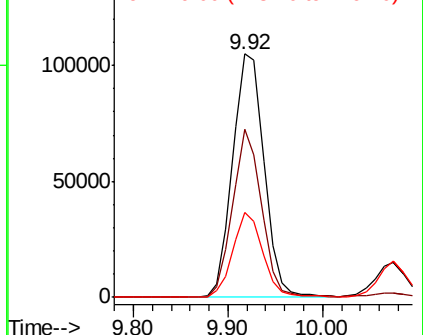
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 952
Delta R.T. -0.01 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:117 Resp: 243681
Ion Ratio Lower Upper
117 100
82 68.8 51.3 76.9
119 34.9 26.4 39.6

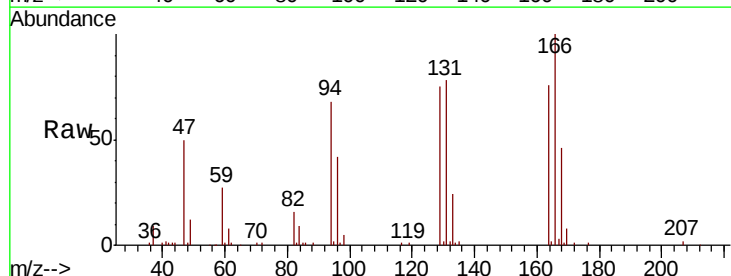


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

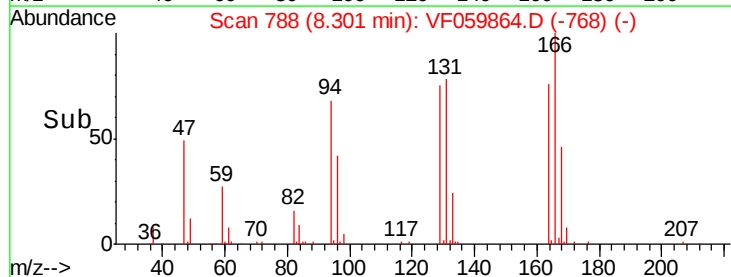
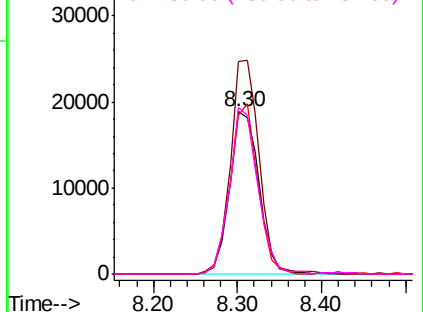


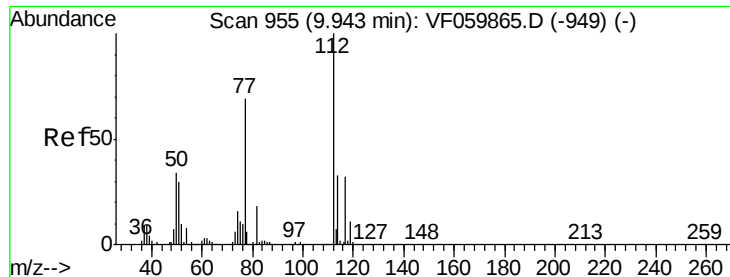
#64
Tetrachloroethene
Concen: 22.988 ug/l
RT: 8.30 min Scan# 788
Delta R.T. -0.01 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Tgt Ion:164 Resp: 45683
Ion Ratio Lower Upper
164 100
166 131.2 104.4 156.6
129 98.2 80.3 120.5
131 102.5 78.5 117.7



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





#65

Chlorobenzene

Concen: 20.891 ug/l

RT: 9.95 min Scan# 955

Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

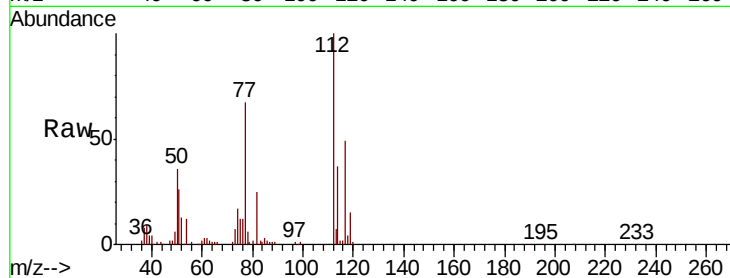
ClientSampled :

Tot Ion:112 Resp: 104347

Ion Ratio Lower Upper

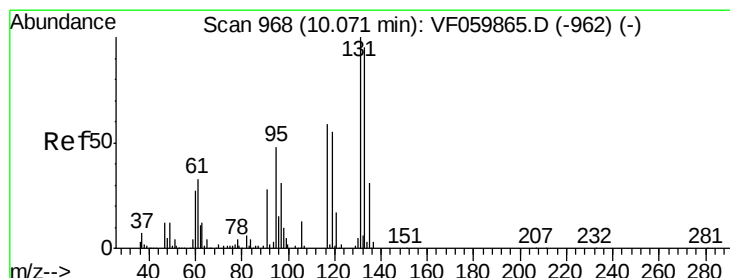
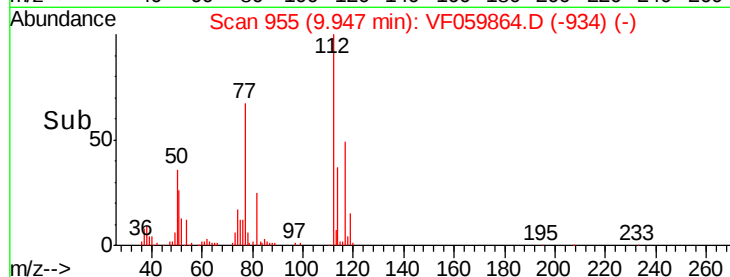
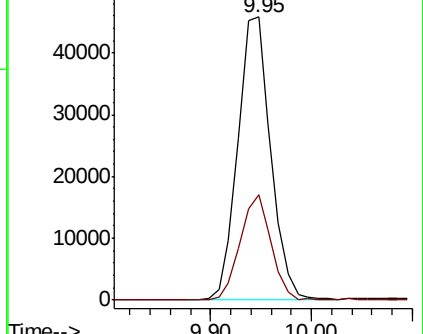
112 100

114 37.2 26.4 39.6



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 24.155 ug/l

RT: 10.08 min Scan# 968

Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

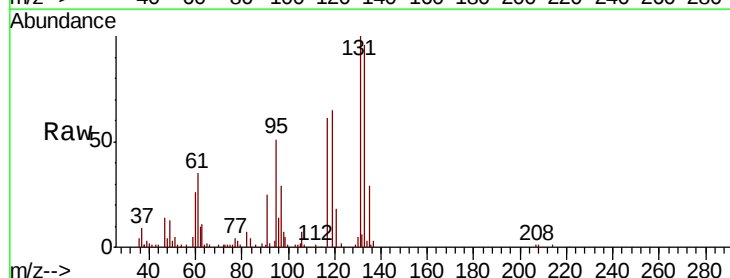
Tgt Ion:131 Resp: 56603

Ion Ratio Lower Upper

131 100

133 95.5 47.4 142.2

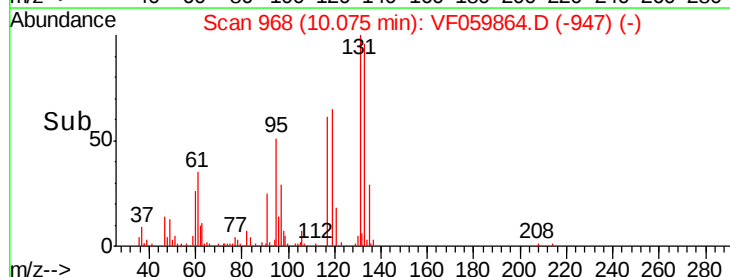
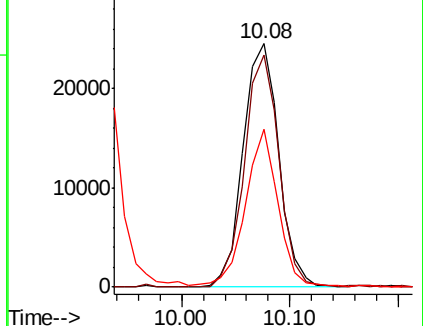
119 64.6 27.7 83.1

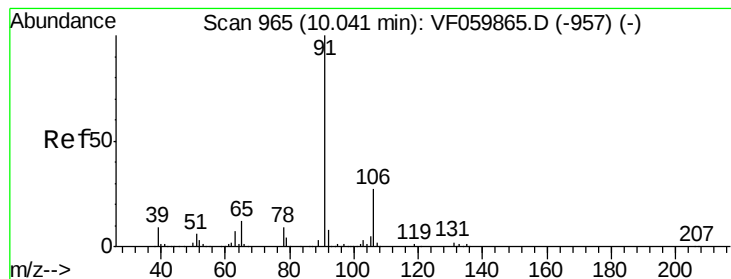


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#67

Ethyl Benzene

Concen: 22.484 ug/l

RT: 10.05 min Scan# 965

Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

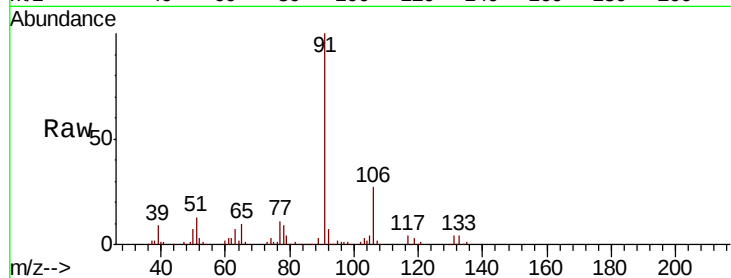
ClientSampleId :

Tot Ion: 91 Resp: 194883

Ion Ratio Lower Upper

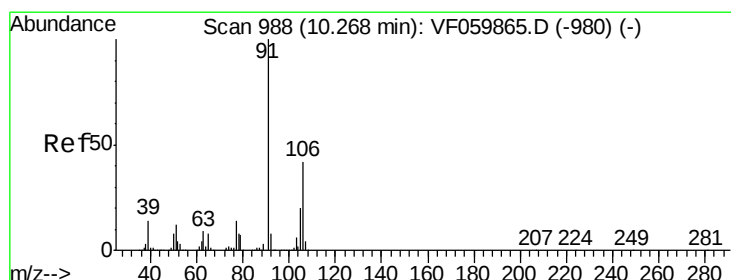
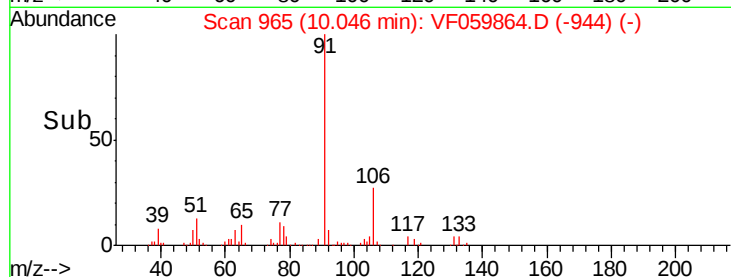
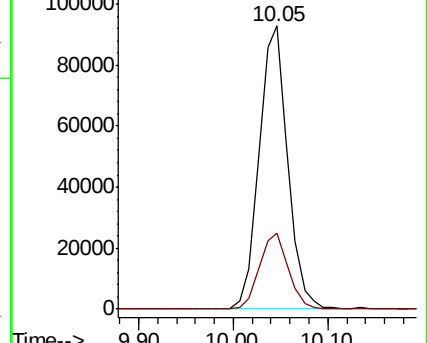
91 100

106 27.1 21.5 32.3



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 44.985 ug/l

RT: 10.27 min Scan# 988

Delta R.T. 0.00 min

Lab File: VF059864.D

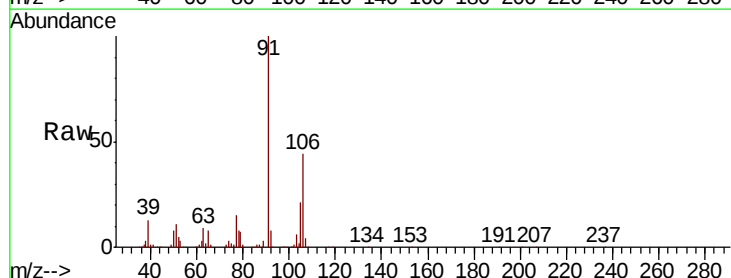
Acq: 4 Aug 2018 4:16

Tgt Ion:106 Resp: 136669

Ion Ratio Lower Upper

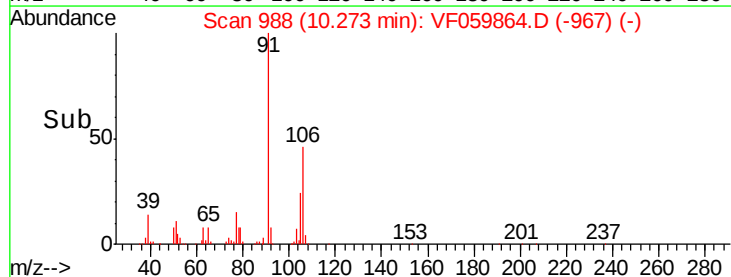
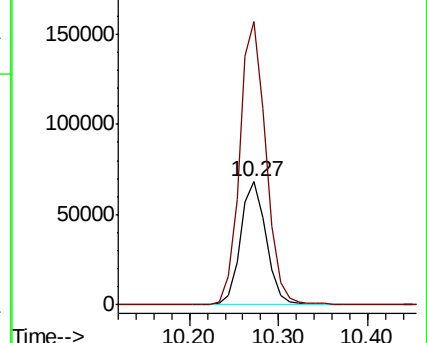
106 100

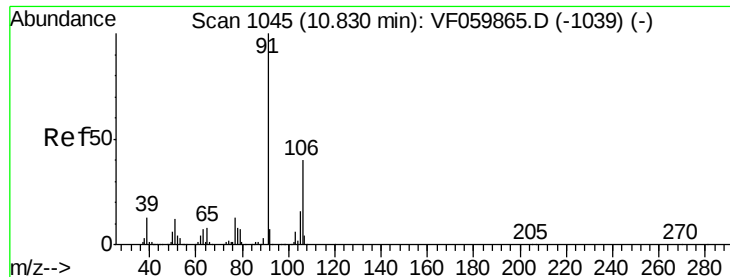
91 229.7 192.1 288.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

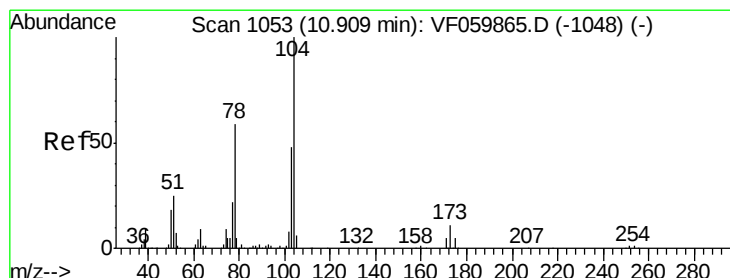
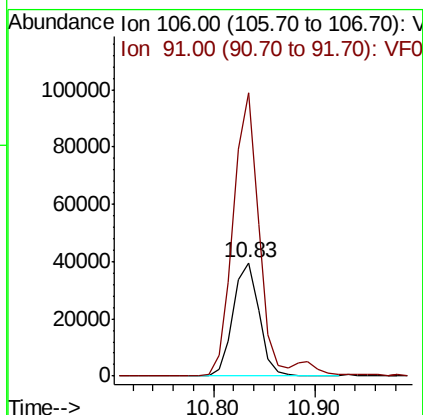
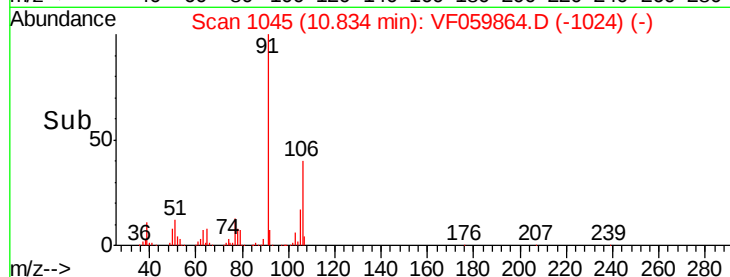
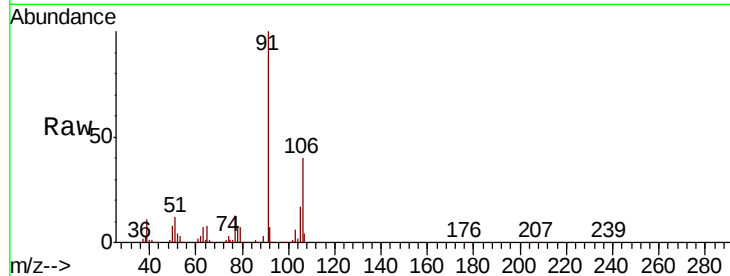




#69
o-Xylene
Concen: 22.337 ug/l
RT: 10.83 min Scan# 1045
Delta R.T. 0.00 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

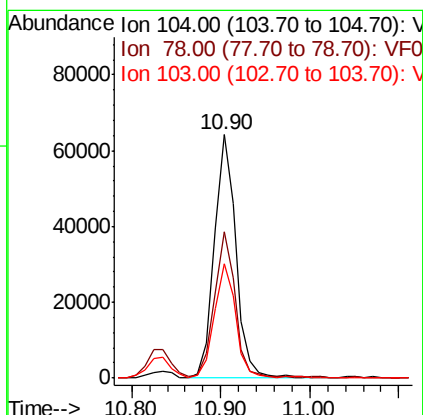
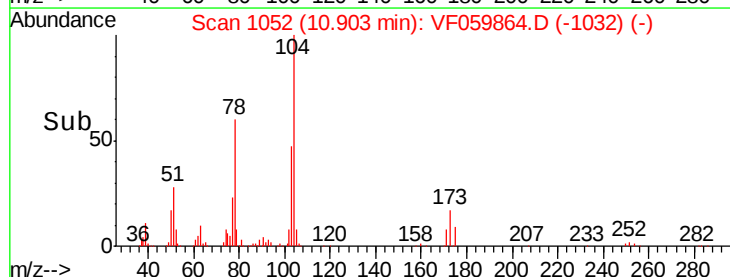
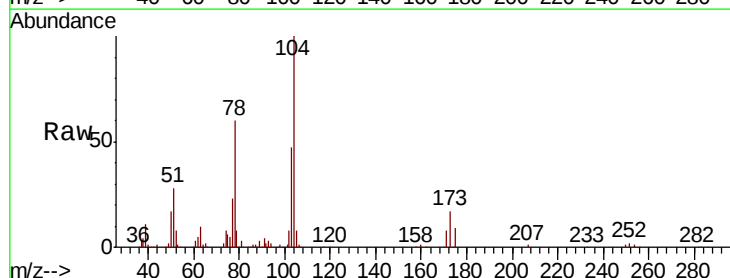
Instrument :
MSVOA_F
ClientSampled :

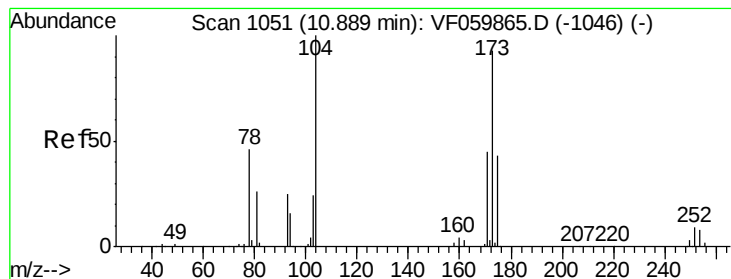
Tot Ion:106 Resp: 71776
Ion Ratio Lower Upper
106 100
91 249.9 125.4 376.2



#70
Styrene
Concen: 22.619 ug/l
RT: 10.90 min Scan# 1052
Delta R.T. -0.01 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Tgt Ion:104 Resp: 108865
Ion Ratio Lower Upper
104 100
78 60.3 47.3 70.9
103 47.1 39.0 58.4





#71

Bromoform

Concen: 22.096 ug/l

RT: 10.89 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

ClientSampleId :

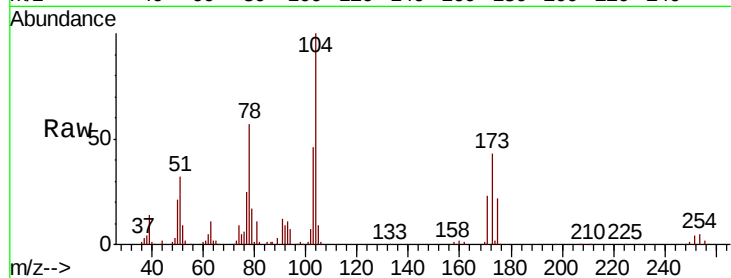
Tot Ion:173 Resp: 33251

Ion Ratio Lower Upper

173 100

175 51.6 23.4 70.2

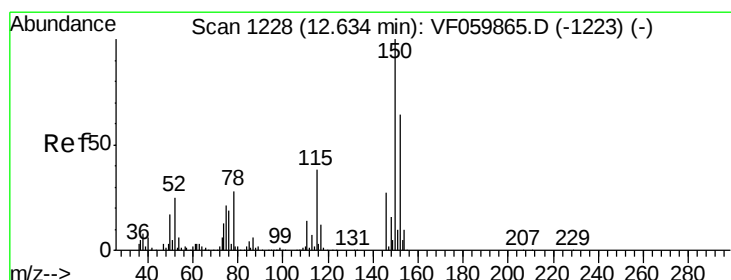
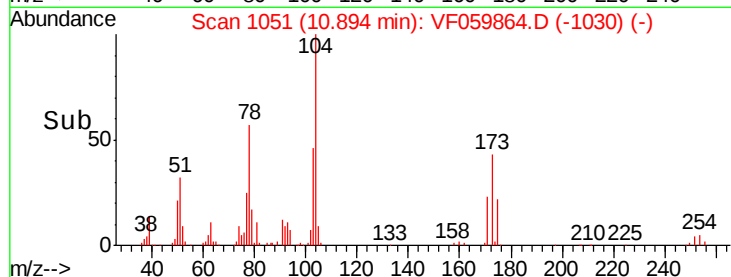
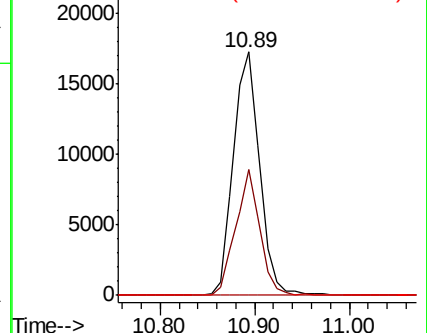
254 0.0 0.0 0.0



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.64 min Scan# 1228

Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

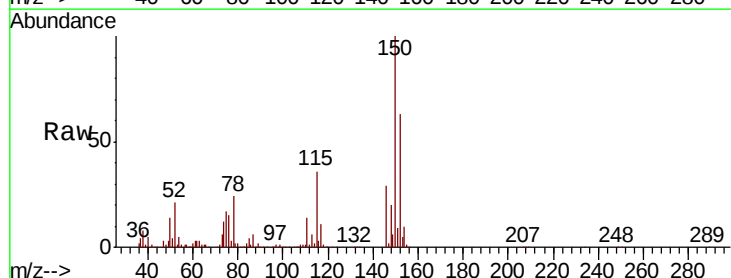
Tgt Ion:152 Resp: 176718

Ion Ratio Lower Upper

152 100

115 56.8 29.8 89.4

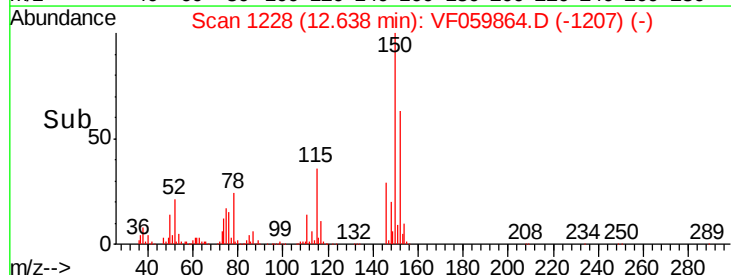
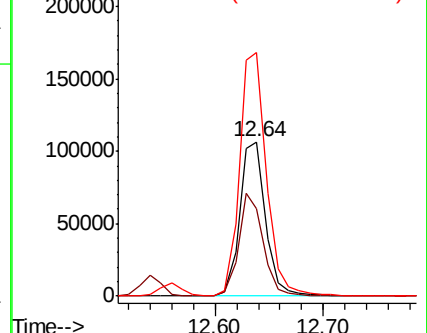
150 157.7 0.0 315.6

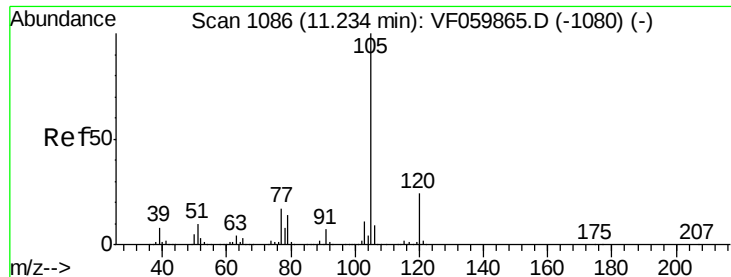


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 20.374 ug/l

RT: 11.23 min Scan# 1085

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

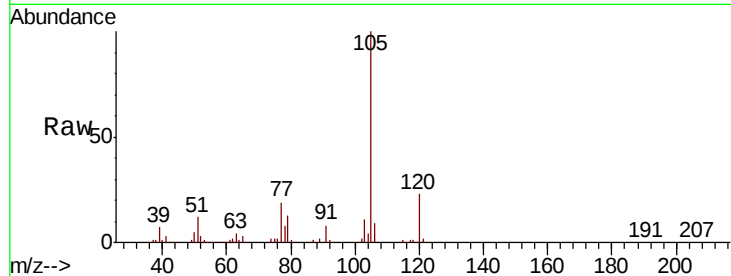
ClientSampleId :

Tot Ion:105 Resp: 241075

Ion Ratio Lower Upper

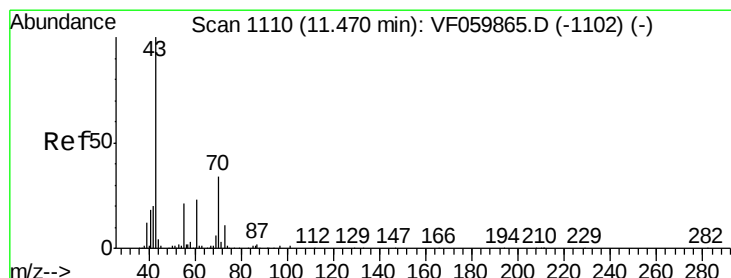
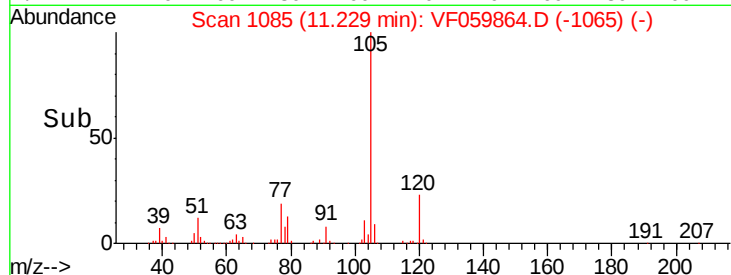
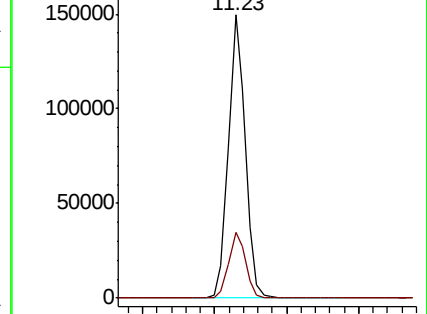
105 100

120 23.4 12.1 36.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 17.292 ug/l

RT: 11.47 min Scan# 1109

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Tgt Ion: 43 Resp: 50470

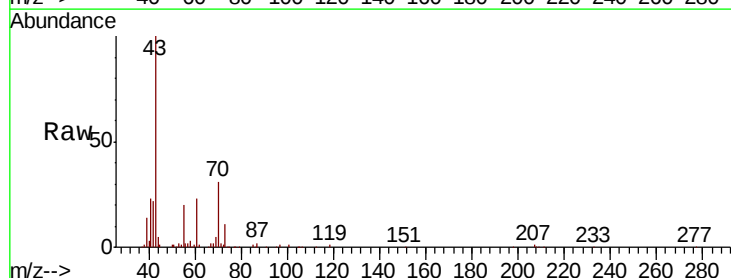
Ion Ratio Lower Upper

43 100

70 30.8 27.5 41.3

55 19.5 16.6 25.0

61 23.2 18.2 27.4

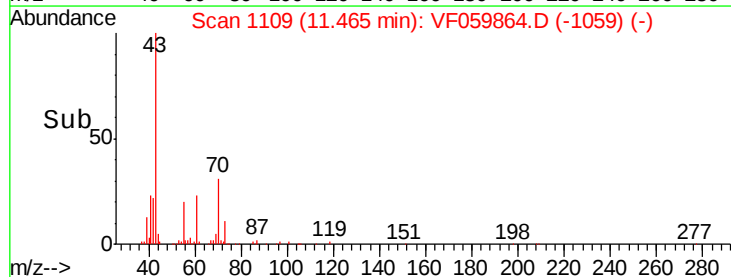
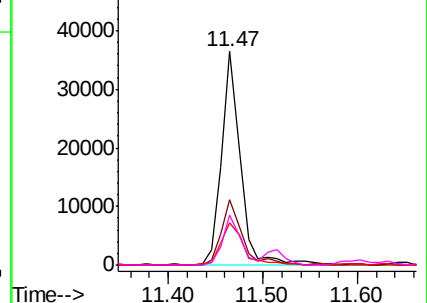


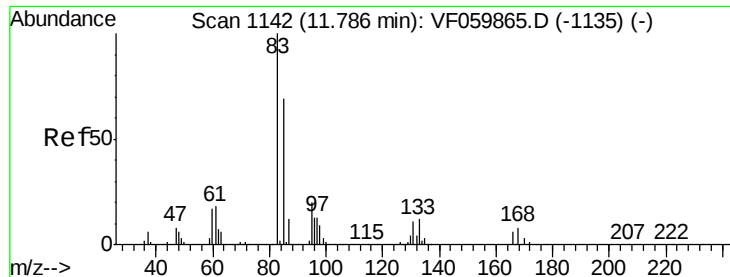
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 19.150 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

ClientSampleId :

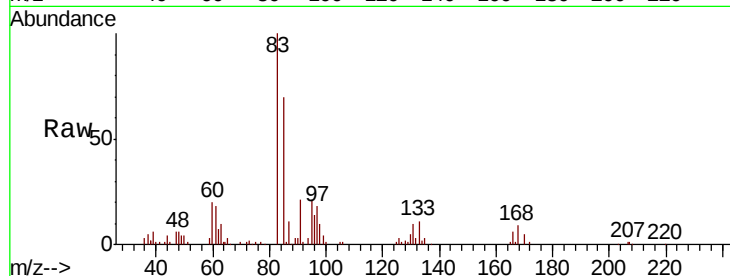
Tot Ion: 83 Resp: 41938

Ion Ratio Lower Upper

83 100

131 10.3 5.3 15.9

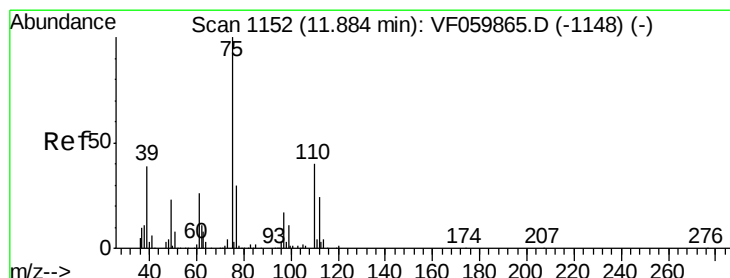
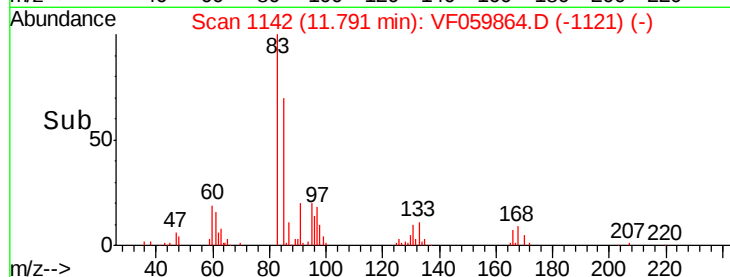
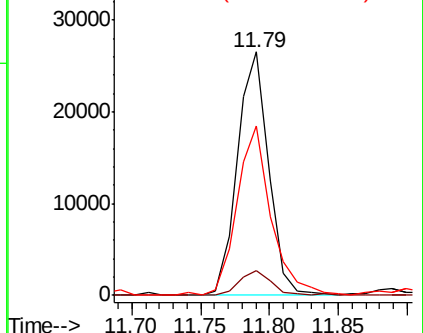
85 69.6 34.5 103.5



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 20.108 ug/l

RT: 11.89 min Scan# 1152

Delta R.T. 0.00 min

Lab File: VF059864.D

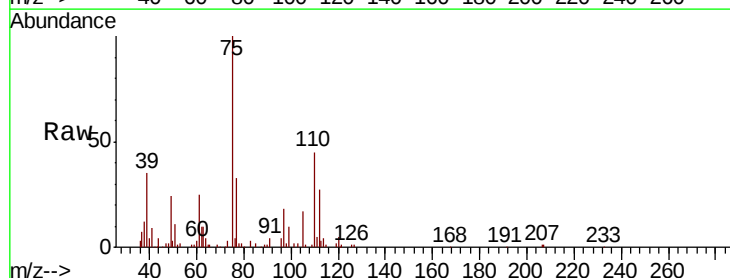
Acq: 4 Aug 2018 4:16

Tgt Ion: 75 Resp: 37751

Ion Ratio Lower Upper

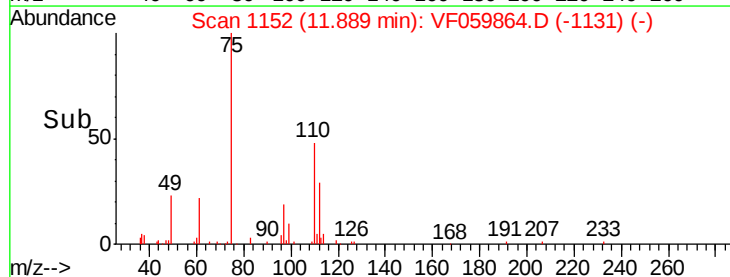
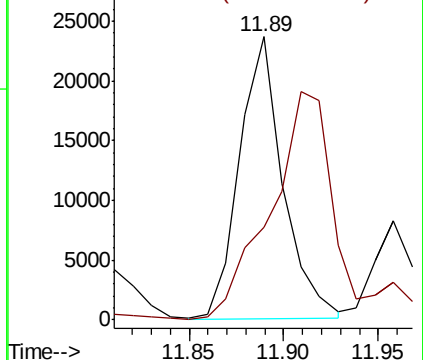
75 100

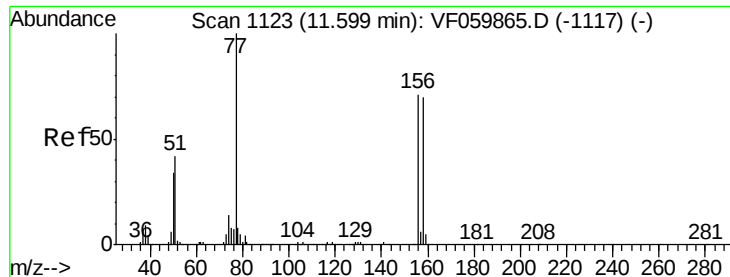
77 32.7 15.4 46.2



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 20.189 ug/l

RT: 11.59 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

ClientSampleId :

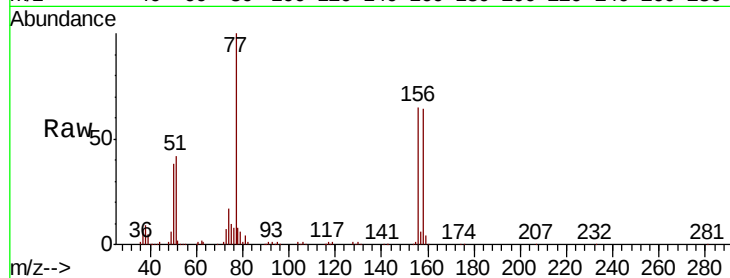
Tot Ion:156 Resp: 62170

Ion Ratio Lower Upper

156 100

77 152.9 70.2 210.6

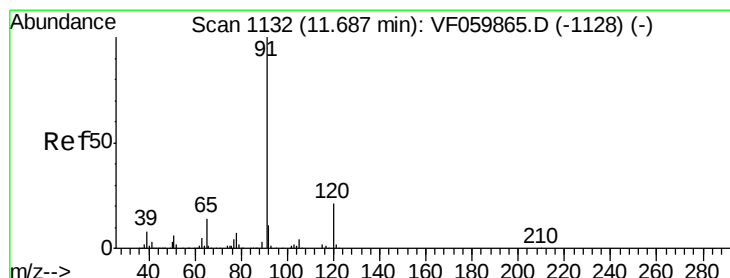
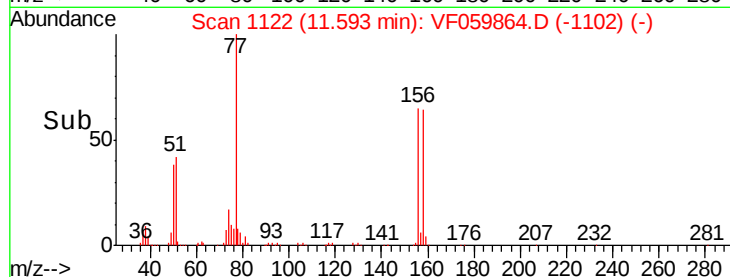
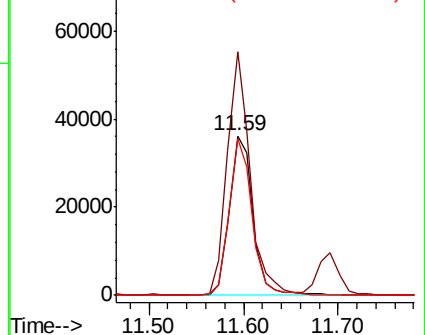
158 98.0 49.2 147.6



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 20.667 ug/l

RT: 11.69 min Scan# 1132

Delta R.T. 0.00 min

Lab File: VF059864.D

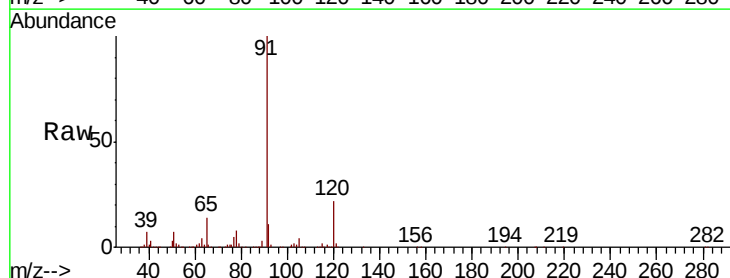
Acq: 4 Aug 2018 4:16

Tgt Ion: 91 Resp: 285151

Ion Ratio Lower Upper

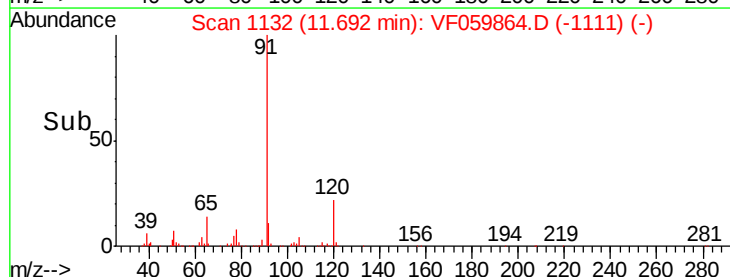
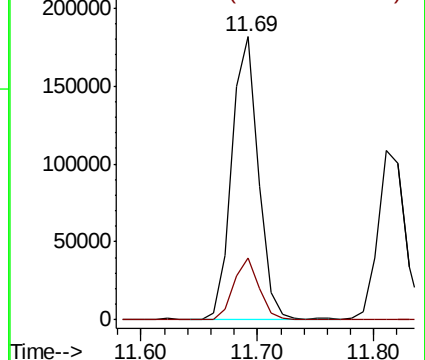
91 100

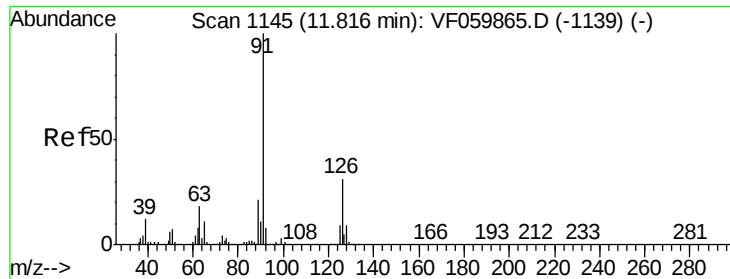
120 21.7 10.4 31.2



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

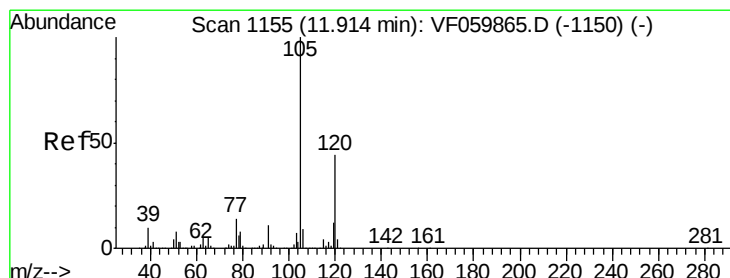
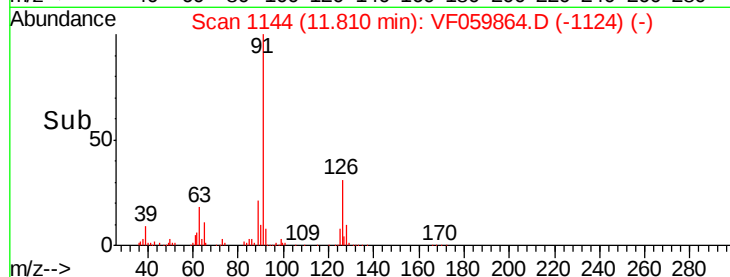
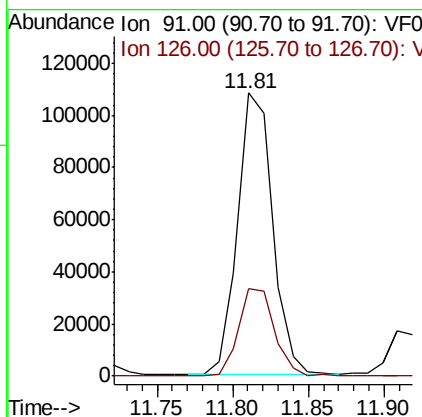
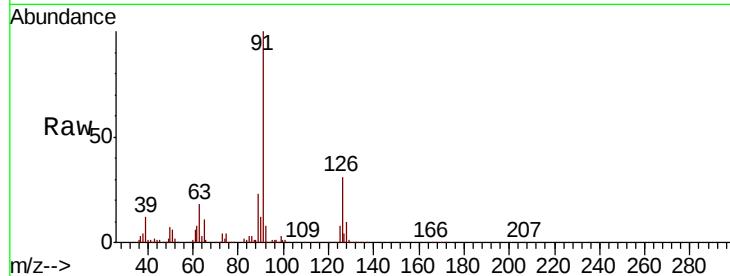




#79
 2-Chlorotoluene
 Concen: 20.336 ug/l
 RT: 11.81 min Scan# 1144
 Delta R.T. -0.01 min
 Lab File: VF059864.D
 Acq: 4 Aug 2018 4:16

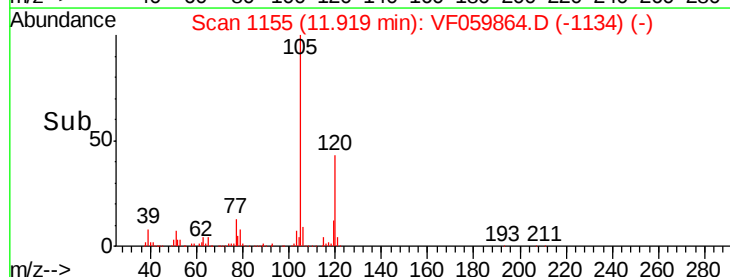
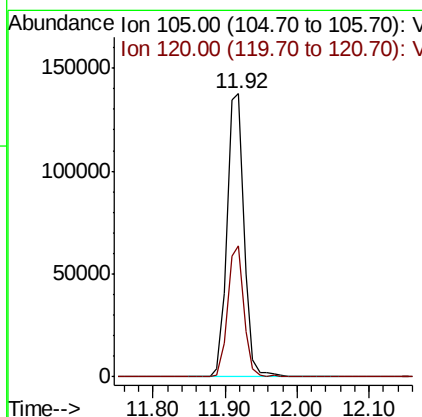
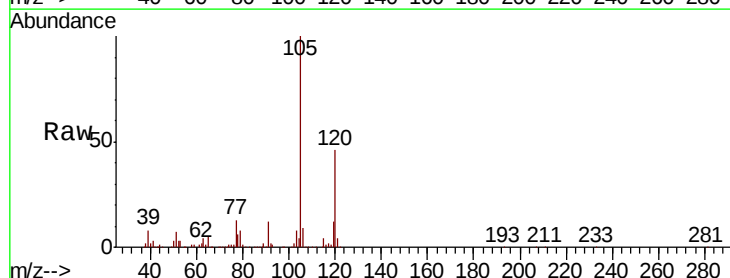
Instrument :
 MSVOA_F
 ClientSampleId :

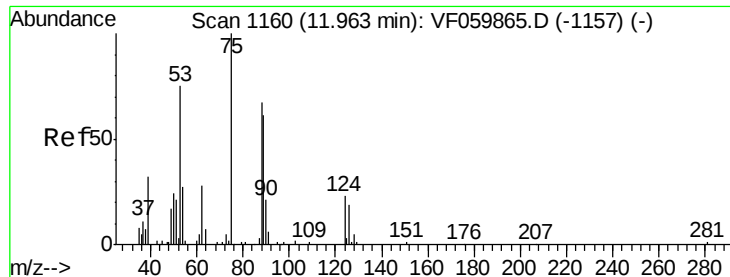
Tot Ion: 91 Resp: 174397
 Ion Ratio Lower Upper
 91 100
 126 31.0 15.6 46.7



#80
 1,3,5-Trimethylbenzene
 Concen: 21.250 ug/l
 RT: 11.92 min Scan# 1155
 Delta R.T. 0.00 min
 Lab File: VF059864.D
 Acq: 4 Aug 2018 4:16

Tgt Ion:105 Resp: 226485
 Ion Ratio Lower Upper
 105 100
 120 46.1 21.9 65.7





#81

trans-1,4-Dichloro-2-butene

Concen: 25.310 ug/l

RT: 11.96 min Scan# 1159

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

ClientSampled :

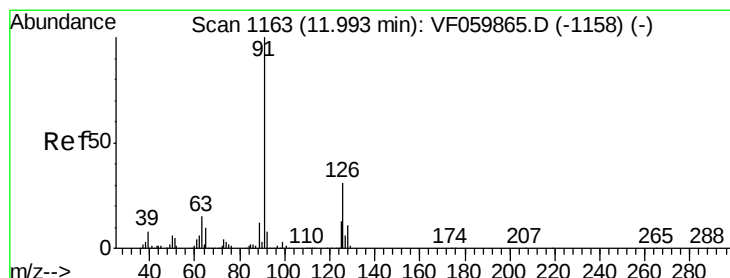
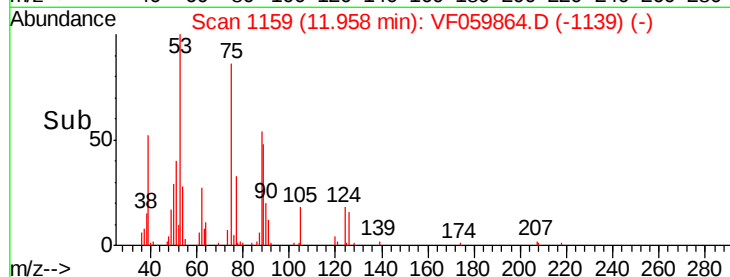
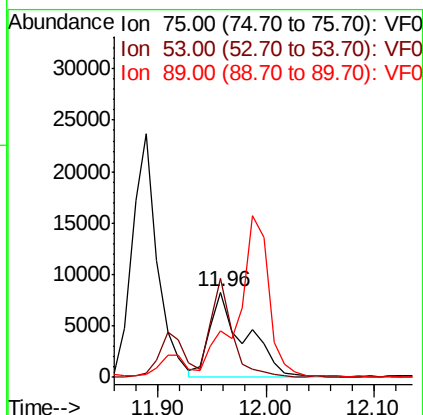
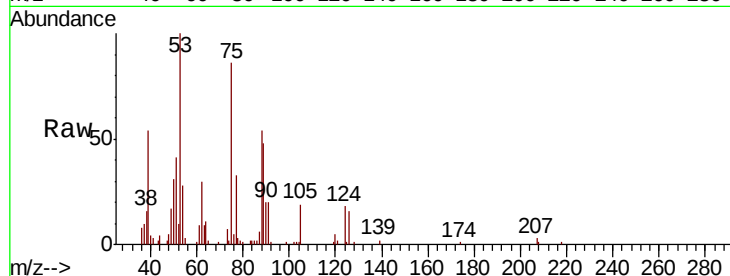
Tot Ion: 75 Resp: 19123

Ion Ratio Lower Upper

75 100

53 115.6 65.9 98.9#

89 55.3 50.6 76.0



#82

4-Chlorotoluene

Concen: 21.027 ug/l

RT: 11.99 min Scan# 1162

Delta R.T. -0.01 min

Lab File: VF059864.D

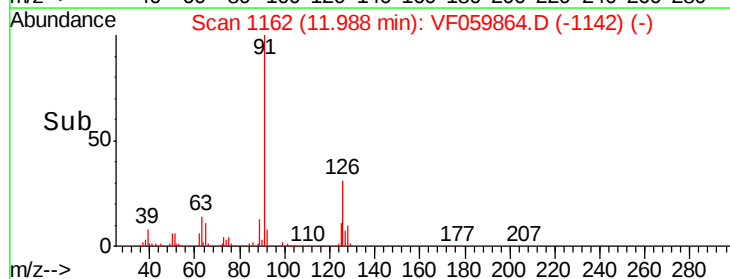
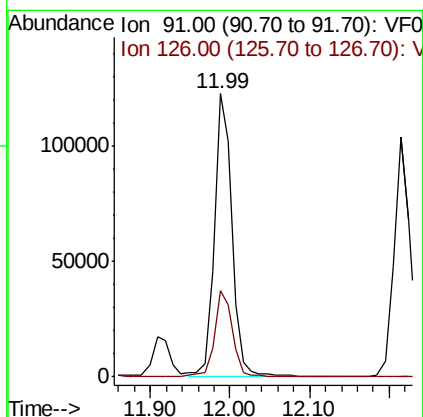
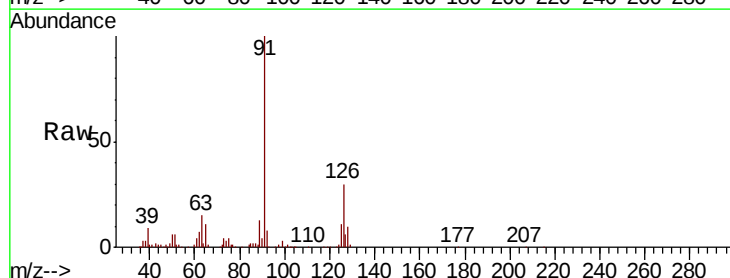
Acq: 4 Aug 2018 4:16

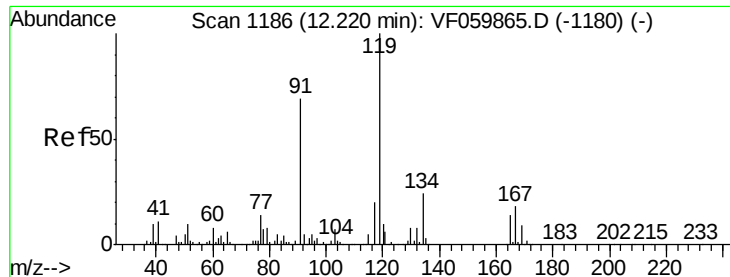
Tgt Ion: 91 Resp: 192452

Ion Ratio Lower Upper

91 100

126 30.4 15.7 47.0





#83

tert-Butylbenzene

Concen: 20.693 ug/l

RT: 12.21 min Scan# 1185

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

ClientSampleId :

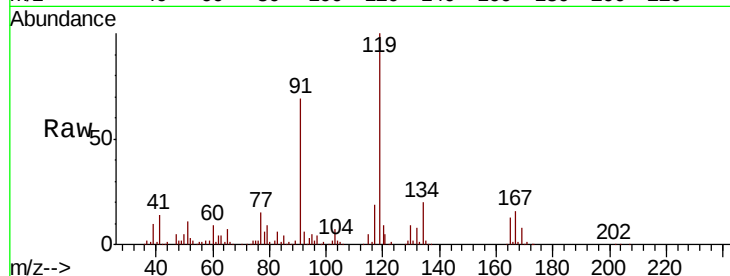
Tot Ion:119 Resp: 218872

Ion Ratio Lower Upper

119 100

91 68.6 34.4 103.2

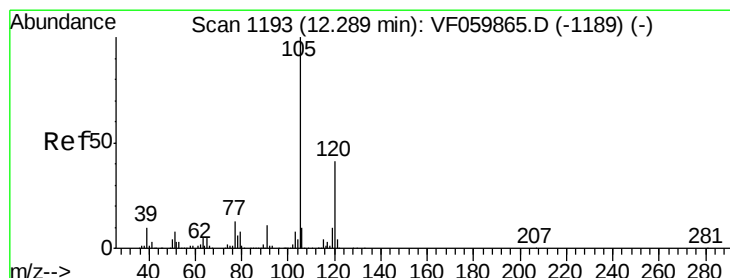
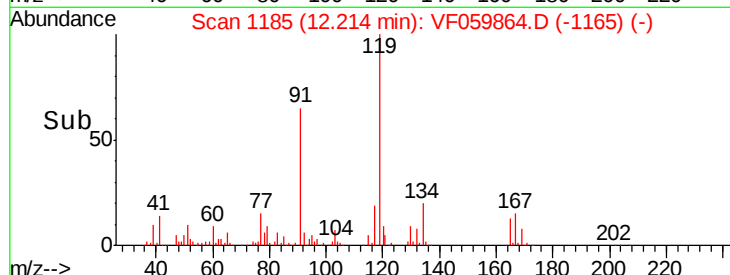
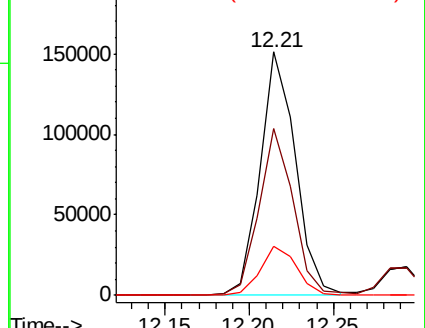
134 20.4 12.1 36.3



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 21.690 ug/l

RT: 12.29 min Scan# 1193

Delta R.T. 0.00 min

Lab File: VF059864.D

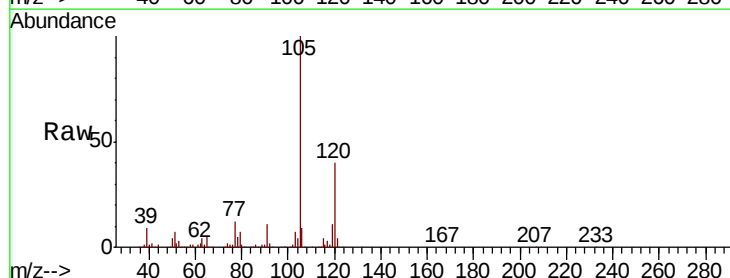
Acq: 4 Aug 2018 4:16

Tgt Ion:105 Resp: 232044

Ion Ratio Lower Upper

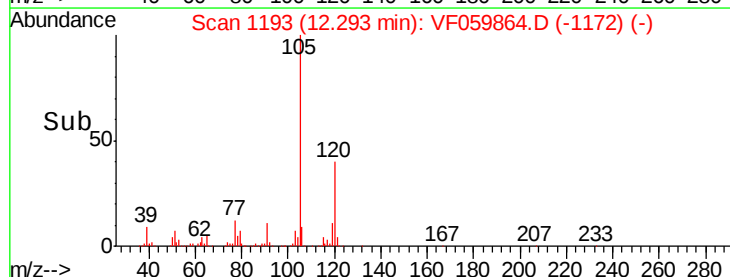
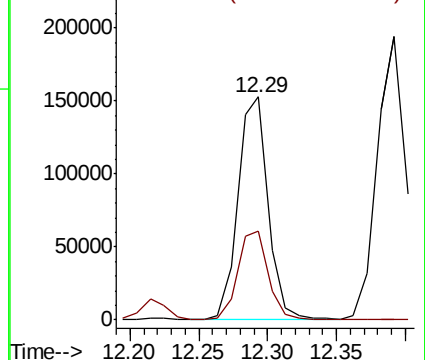
105 100

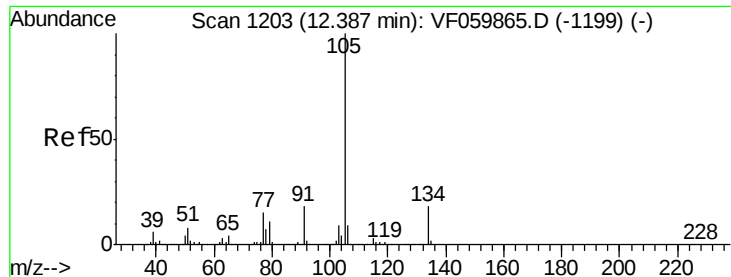
120 39.8 20.8 62.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 20.772 ug/l

RT: 12.39 min Scan# 1203

Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

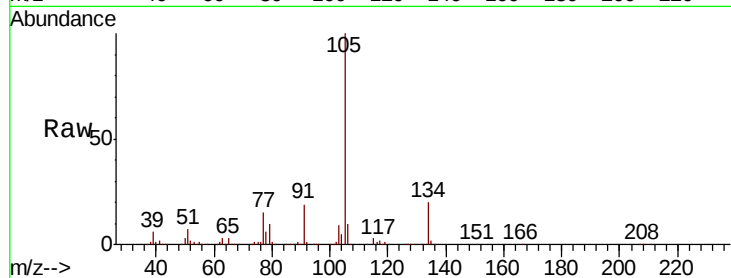
ClientSampled :

Tot Ion:105 Resp: 282877

Ion Ratio Lower Upper

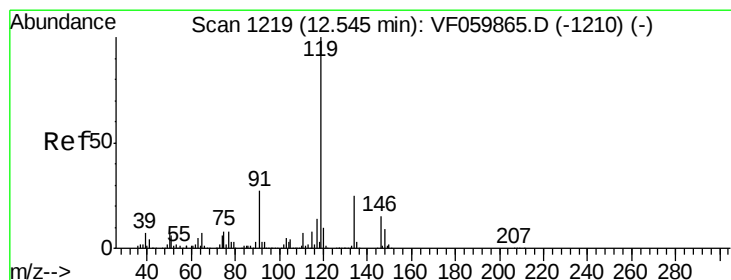
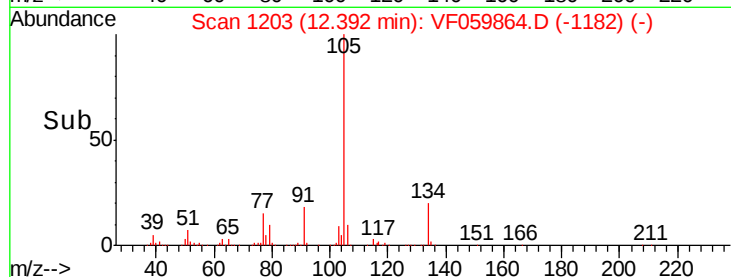
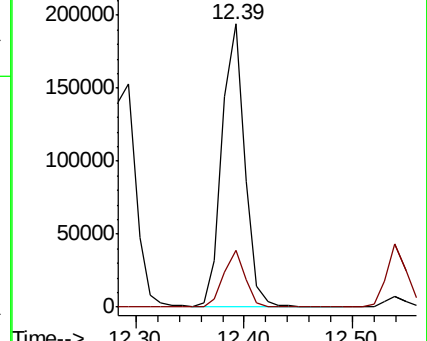
105 100

134 20.0 9.1 27.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 20.288 ug/l

RT: 12.54 min Scan# 1218

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

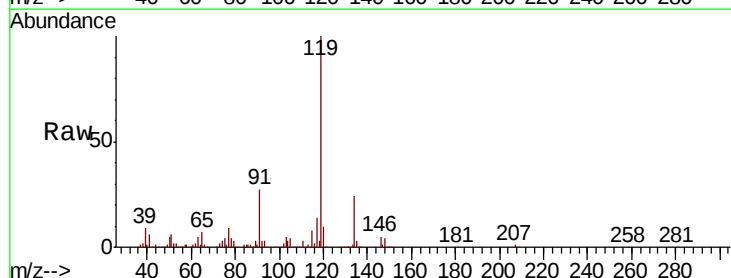
Tgt Ion:119 Resp: 243688

Ion Ratio Lower Upper

119 100

134 24.1 12.4 37.0

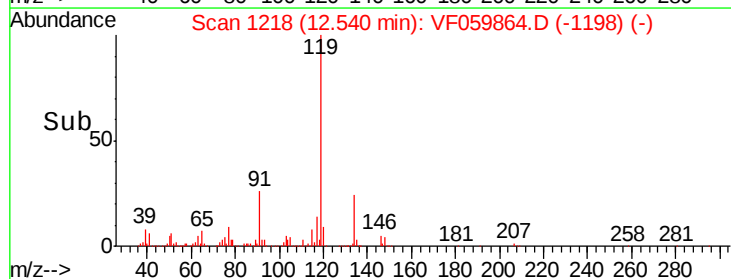
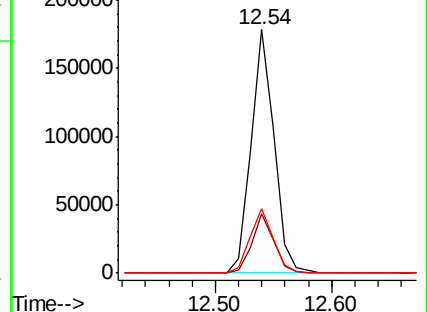
91 26.6 13.6 40.7

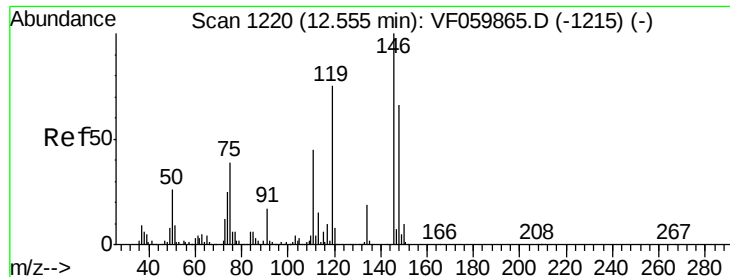


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

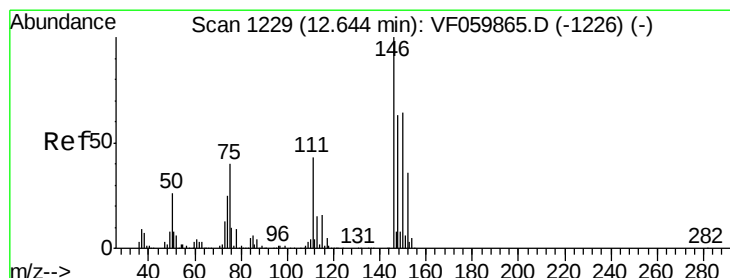
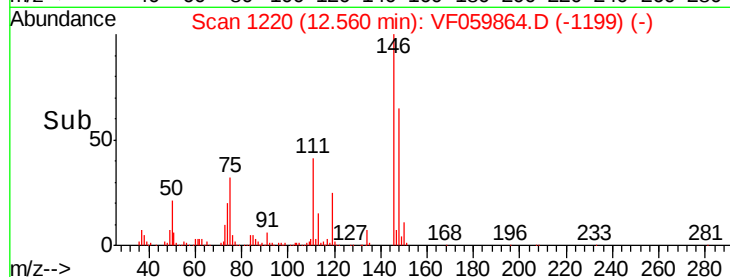
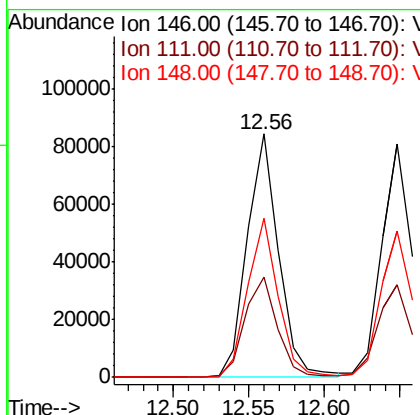
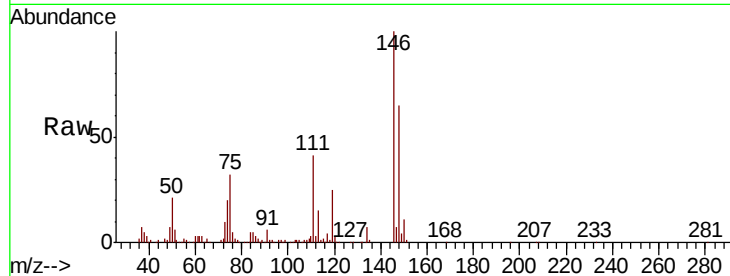




#87
 1,3-Dichlorobenzene
 Concen: 20.947 ug/l
 RT: 12.56 min Scan# 1220
 Delta R.T. 0.00 min
 Lab File: VF059864.D
 Acq: 4 Aug 2018 4:16

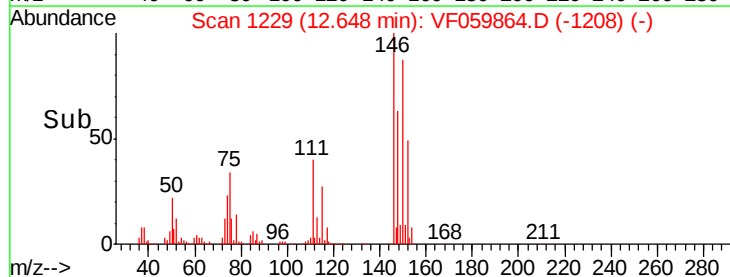
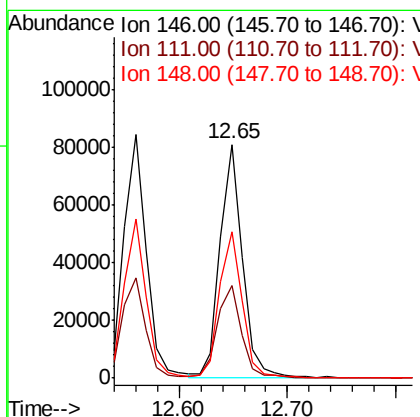
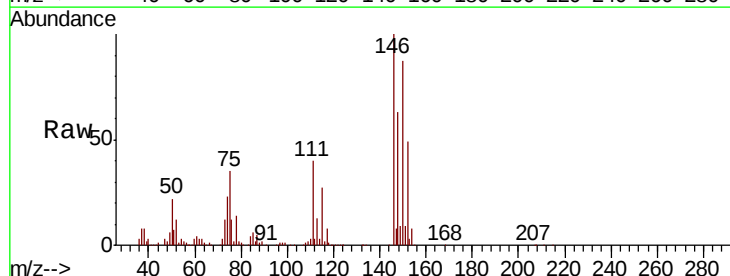
Instrument :
 MSVOA_F
 ClientSampleId :

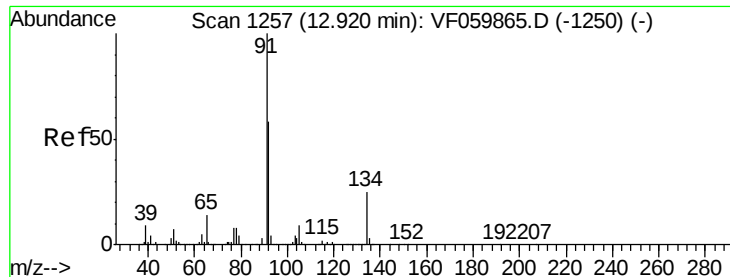
Tot Ion	Ratio	Lower	Upper
146	100		
111	41.0	22.4	67.0
148	65.2	33.1	99.3



#88
 1,4-Dichlorobenzene
 Concen: 20.650 ug/l
 RT: 12.65 min Scan# 1229
 Delta R.T. 0.00 min
 Lab File: VF059864.D
 Acq: 4 Aug 2018 4:16

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.9	21.4	64.2
148	62.5	31.6	94.7





#89

n-Butylbenzene

Concen: 21.221 ug/l

RT: 12.92 min Scan# 1257

Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

ClientSampleId :

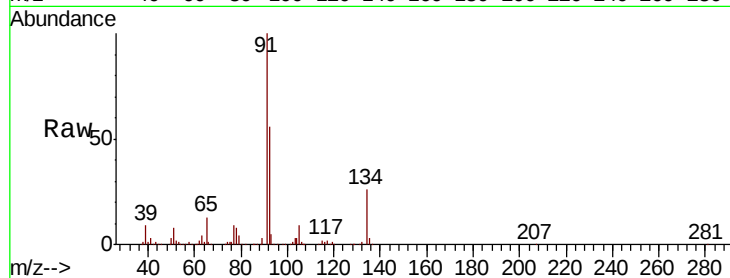
Tot Ion: 91 Resp: 239720

Ion	Ratio	Lower	Upper
91	100		
92	56.3	28.8	86.5
134	25.8	12.6	37.6

91 100

92 56.3 28.8 86.5

134 25.8 12.6 37.6

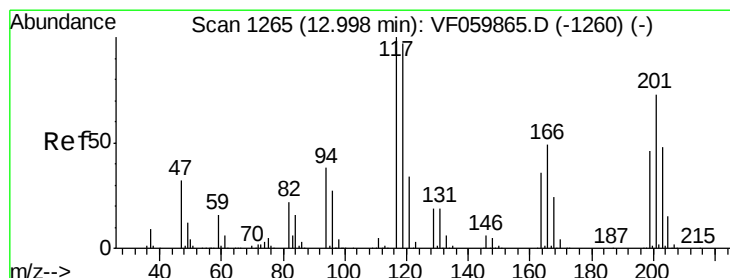
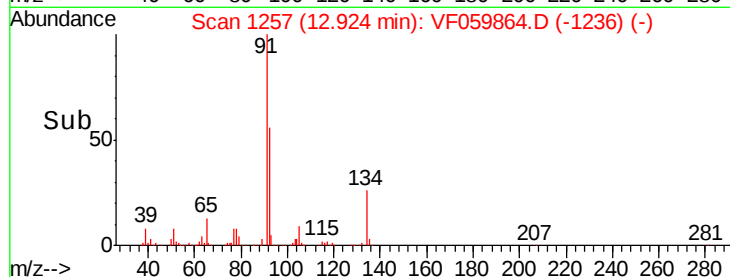
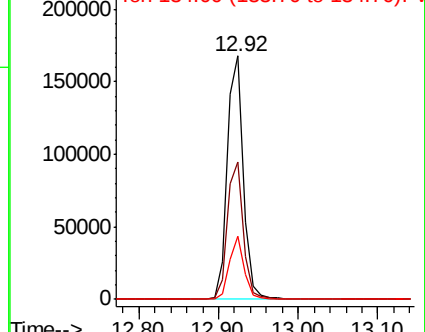


Abundance

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: 20.694 ug/l

RT: 12.99 min Scan# 1264

Delta R.T. -0.01 min

Lab File: VF059864.D

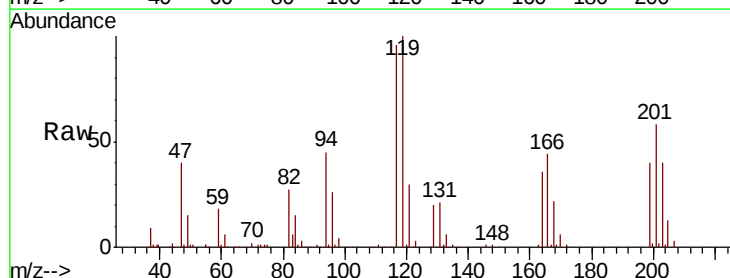
Acq: 4 Aug 2018 4:16

Tgt Ion: 117 Resp: 62393

Ion	Ratio	Lower	Upper
117	100		
201	59.7	36.6	109.8

117 100

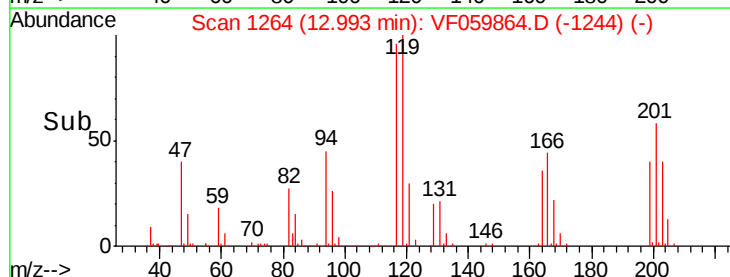
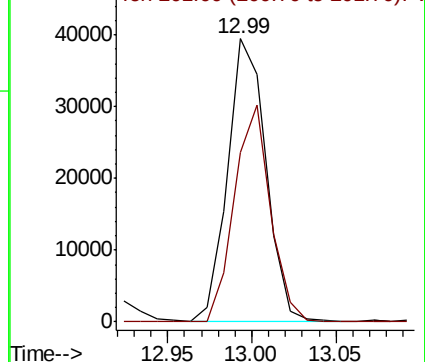
201 59.7 36.6 109.8

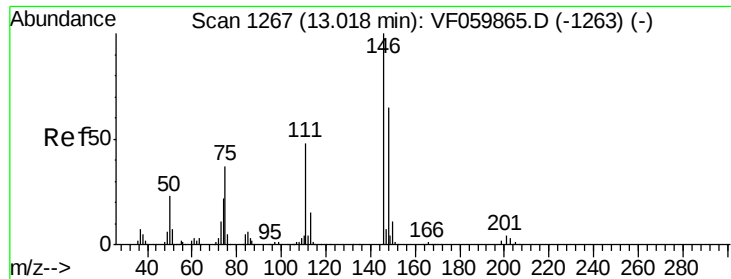


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

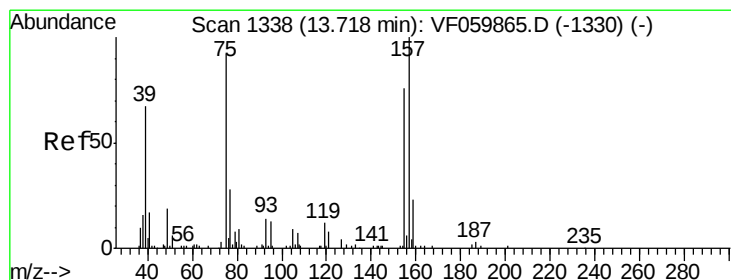
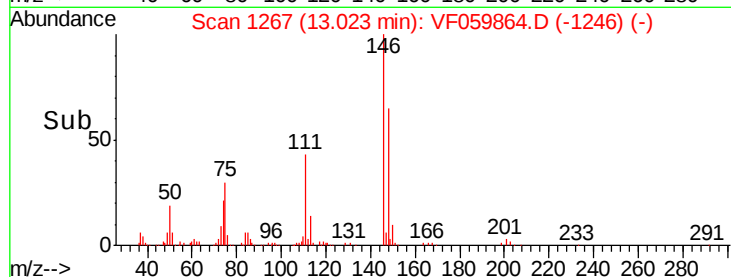
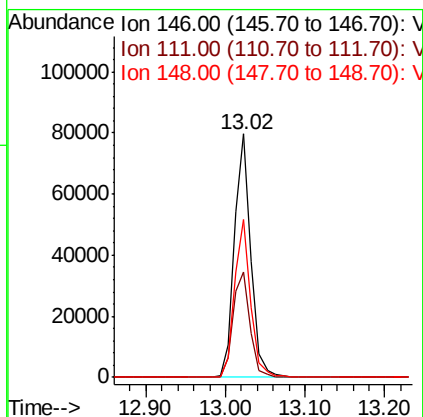
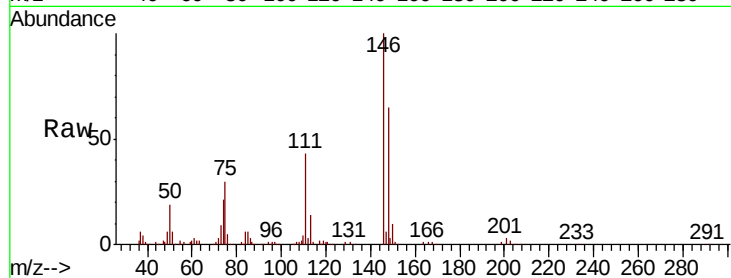




#91
 1,2-Dichlorobenzene
 Concen: 20.375 ug/l
 RT: 13.02 min Scan# 1267
 Delta R.T. 0.00 min
 Lab File: VF059864.D
 Acq: 4 Aug 2018 4:16

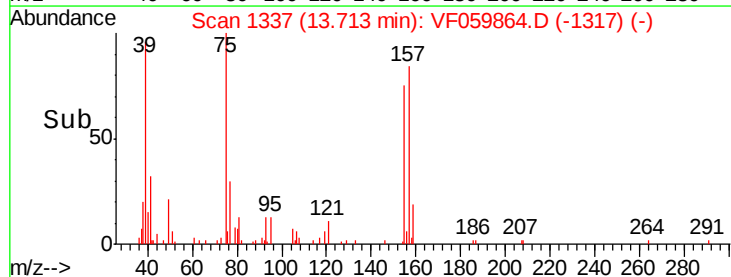
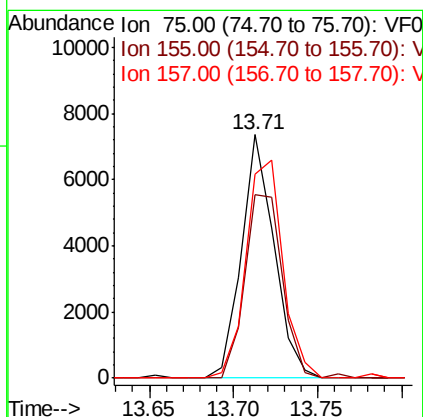
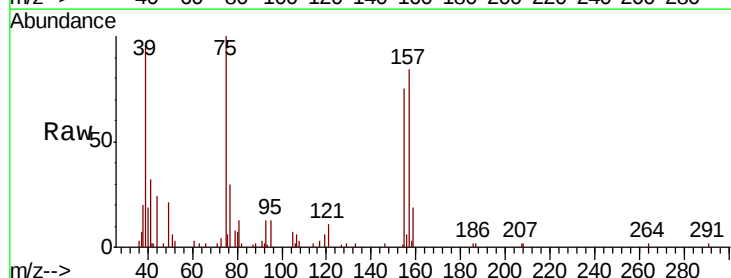
Instrument :
 MSVOA_F
 ClientSampleId :

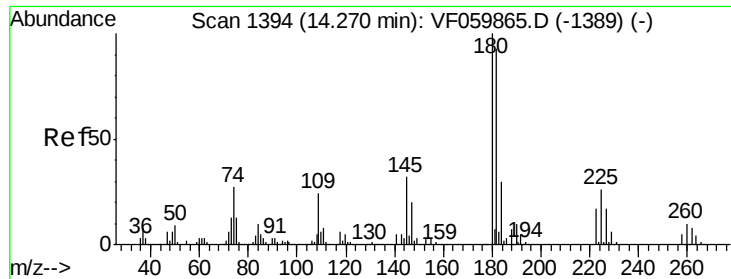
Tot Ion:146 Resp: 115709
 Ion Ratio Lower Upper
 146 100
 111 43.2 24.1 72.2
 148 64.9 32.8 98.3



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.141 ug/l
 RT: 13.71 min Scan# 1337
 Delta R.T. -0.01 min
 Lab File: VF059864.D
 Acq: 4 Aug 2018 4:16

Tgt Ion: 75 Resp: 9878
 Ion Ratio Lower Upper
 75 100
 155 75.1 41.2 123.6
 157 83.9 54.5 163.6

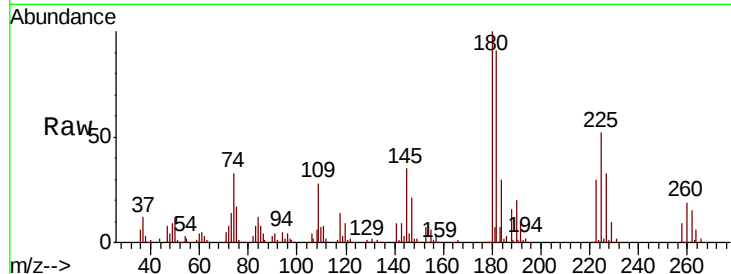




#93
1,2,4-Trichlorobenzene
Concen: 20.287 ug/l
RT: 14.26 min Scan# 1393
Delta R.T. -0.01 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Instrument :
MSVOA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
180	100		
182	90.6	46.4	139.2
145	35.2	15.9	47.7

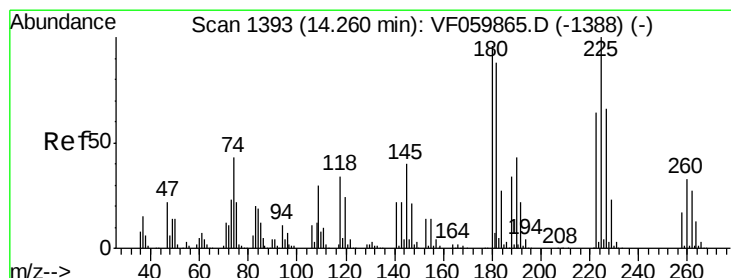
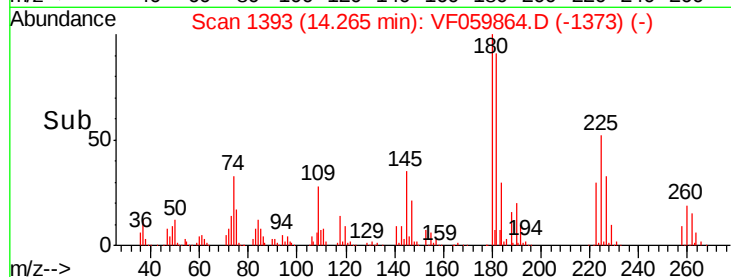
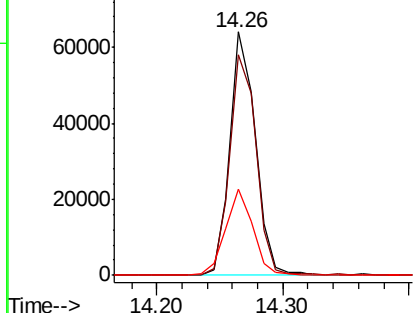


Abundance

Ion 180.00 (179.70 to 180.70): V

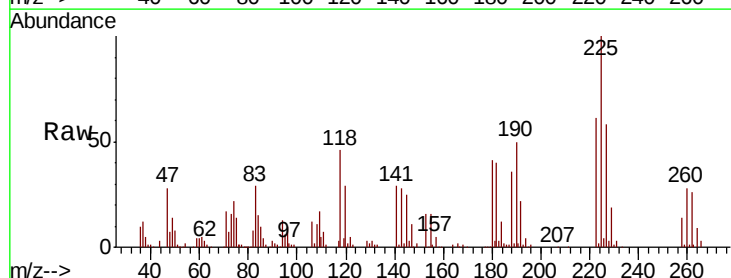
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#94
Hexachlorobutadiene
Concen: 22.109 ug/l
RT: 14.25 min Scan# 1392
Delta R.T. -0.01 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.0	31.9	95.9
227	58.0	32.8	98.4

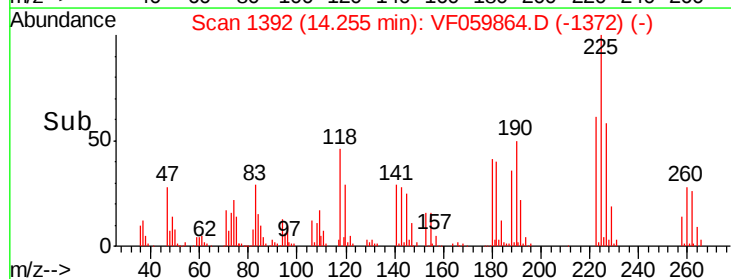
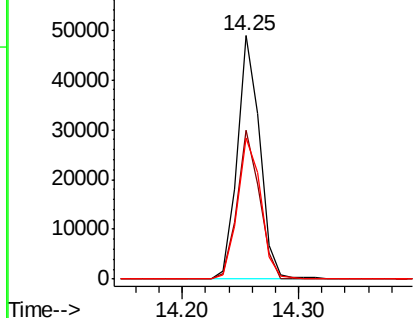


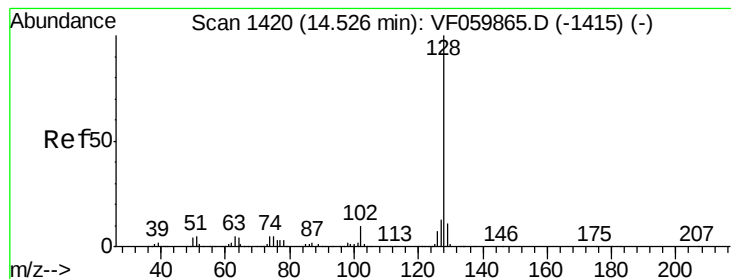
Abundance

Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





#95

Naphthalene

Concen: 19.247 ug/l

RT: 14.52 min Scan# 1419

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

ClientSampled :

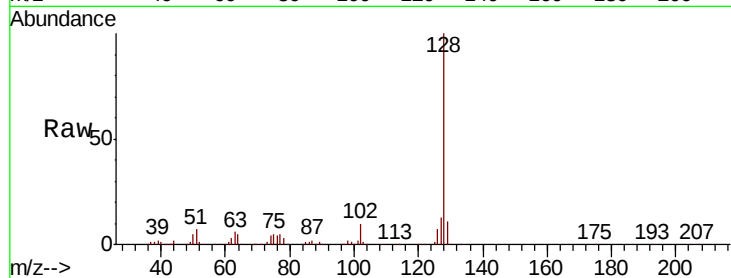
Tot Ion:128 Resp: 148592

Ion Ratio Lower Upper

128 100

127 12.5 10.4 15.6

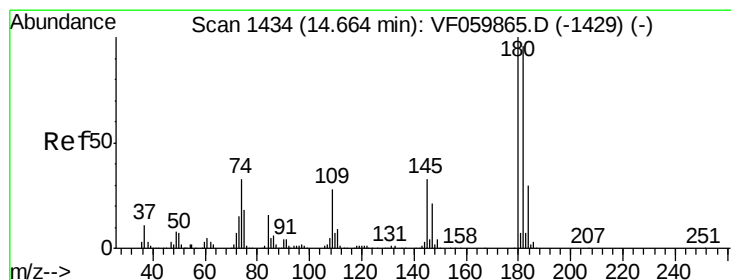
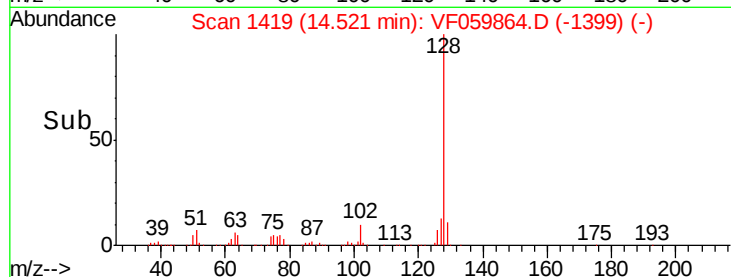
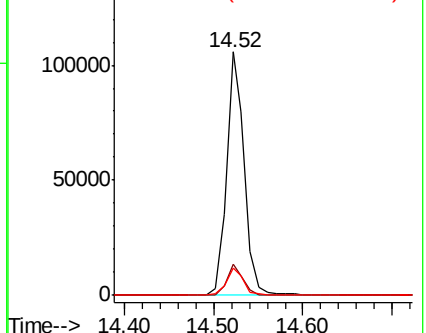
129 11.1 9.0 13.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 20.137 ug/l

RT: 14.67 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

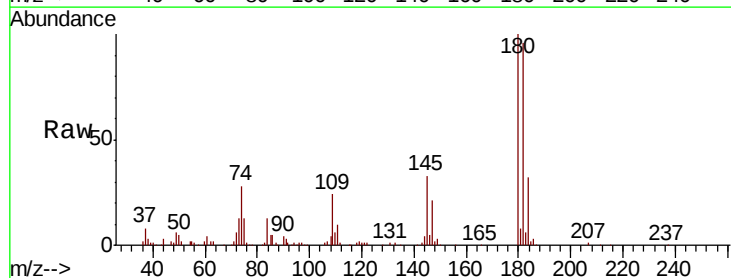
Tgt Ion:180 Resp: 86310

Ion Ratio Lower Upper

180 100

182 95.6 48.1 144.3

145 33.3 16.6 49.8



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

