

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062018\
 Data File : VF059249.D
 Acq On : 21 Jun 2018 3:56
 Operator : VA/AP
 Sample : VF0620SBS02
 Misc : 5.20g/5mL/MSVOA-F/SOIL
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jun 21 06:41:29 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F060618S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 07 10:52:00 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	217498	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	347059	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	354367	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	221782	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.01	65	161966	61.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	122.80%	
35) Dibromofluoromethane	4.29	113	143097	58.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.52%	
50) Toluene-d8	7.71	98	339664	47.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.96%	
62) 4-Bromofluorobenzene	11.51	95	196732	53.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.22%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.98	85	49190	19.982	ug/l	94
3) Chloromethane	1.08	50	28385	14.886	ug/l	91
4) Vinyl Chloride	1.14	62	29782	17.312	ug/l	96
5) Bromomethane	1.34	94	19512	19.465	ug/l	85
6) Chloroethane	1.43	64	14689	20.579	ug/l #	85
7) Trichlorofluoromethane	1.49	101	20989	7.849	ug/l	92
8) Diethyl Ether	1.70	74	14089	20.941	ug/l	88
9) 1,1,2-Trichlorotrifluoroet	1.90	101	37397	21.943	ug/l	93
10) Methyl Iodide	1.97	142	62898	21.092	ug/l	97
11) Tert butyl alcohol	2.68	59	17456	103.282	ug/l	98
12) 1,1-Dichloroethene	1.85	96	30520	21.296	ug/l	97
13) Acrolein	2.09	56	8848	60.484	ug/l	88
14) Allyl chloride	2.19	41	54489	19.372	ug/l #	80
15) Acrylonitrile	3.07	53	36557	108.907	ug/l	92
16) Acetone	2.33	43	57693	91.605	ug/l	92
17) Carbon Disulfide	1.87	76	65288	16.226	ug/l	100
18) Methyl Acetate	2.45	43	23790	21.973	ug/l	94
19) Methyl tert-butyl Ether	2.54	73	108106	24.299	ug/l	94
20) Methylene Chloride	2.27	84	17343	11.501	ug/l #	82
21) trans-1,2-Dichloroethene	2.41	96	34063	21.673	ug/l	93
22) Diisopropyl ether	2.92	45	116964	21.153	ug/l #	90
23) Vinyl Acetate	3.33	43	376534	103.281	ug/l	99
24) 1,1-Dichloroethane	3.00	63	79120	23.602	ug/l	98
25) 2-Butanone	4.51	43	88350	90.485	ug/l	99
26) 2,2-Dichloropropane	3.76	77	48337	19.876	ug/l	94
27) cis-1,2-Dichloroethene	3.63	96	47932	19.815	ug/l	94
28) Bromochloromethane	3.89	49	37689	24.979	ug/l	96
29) Tetrahydrofuran	4.27	42	42151	97.973	ug/l	98
30) Chloroform	4.04	83	111855	23.325	ug/l	99
31) Cyclohexane	3.88	56	50520	17.252	ug/l	91
32) 1,1,1-Trichloroethane	4.28	97	86955	24.289	ug/l	95
36) 1,1-Dichloropropene	4.45	75	64569	19.194	ug/l	95
37) Ethyl Acetate	4.29	43	42231	20.317	ug/l #	63
38) Carbon Tetrachloride	4.17	117	89556	24.564	ug/l	94

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 Quant Title : SW846 8260
 QLast Update : Thu Jun 07 10:52:00 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.63	83	67707	19.745	ug/l	94
40) Benzene	4.81	78	153700	19.684	ug/l	98
41) Methacrylonitrile	4.92	41	20570	20.143	ug/l #	91
42) 1,2-Dichloroethane	5.12	62	90140	25.740	ug/l	98
43) Isopropyl Acetate	7.11	43	49927	17.935	ug/l #	98
44) Trichloroethene	5.67	130	52841	21.658	ug/l	99
45) 1,2-Dichloropropane	6.40	63	43174	19.177	ug/l	96
46) Dibromomethane	6.26	93	37941	22.398	ug/l	94
47) Bromodichloromethane	6.55	83	92597	24.029	ug/l	99
48) Methyl methacrylate	6.88	41	32056	18.680	ug/l #	90
49) 1,4-Dioxane	6.89	88	4296	328.199	ug/l #	78
51) 4-Methyl-2-Pentanone	8.41	43	188204	98.641	ug/l	97
52) Toluene	7.77	92	118626	21.093	ug/l	99
53) t-1,3-Dichloropropene	8.43	75	75640	20.268	ug/l	94
54) cis-1,3-Dichloropropene	7.46	75	87439	20.396	ug/l	96
55) 1,1,2-Trichloroethane	8.64	97	43771	21.477	ug/l	96
56) Ethyl methacrylate	8.76	69	47001	18.296	ug/l	93
57) 1,3-Dichloropropane	9.00	76	75069	21.533	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.77	63	20542	111.832	ug/l	100
59) 2-Hexanone	9.63	43	142992	94.747	ug/l	91
60) Dibromochloromethane	8.87	129	66118	22.576	ug/l	97
61) 1,2-Dibromoethane	9.13	107	52579	22.203	ug/l	97
64) Tetrachloroethene	8.31	164	56729	21.826	ug/l	97
65) Chlorobenzene	9.94	112	143475	20.446	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.07	131	65310	23.397	ug/l	96
67) Ethyl Benzene	10.04	91	253275	20.772	ug/l	97
68) m/p-Xylenes	10.27	106	180067	39.445	ug/l	84
69) o-Xylene	10.83	106	102222	20.719	ug/l	86
70) Styrene	10.90	104	156315	20.940	ug/l	98
71) Bromoform	10.89	173	41910	22.108	ug/l #	93
73) Isopropylbenzene	11.22	105	300361	19.561	ug/l	94
74) N-amyl acetate	11.46	43	94724	17.270	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.79	83	69182	19.004	ug/l	98
76) 1,2,3-Trichloropropane	11.89	75	51552	19.174	ug/l	99
77) Bromobenzene	11.60	156	75525	19.544	ug/l	84
78) n-propylbenzene	11.69	91	353254	19.437	ug/l	97
79) 2-Chlorotoluene	11.82	91	219243	20.420	ug/l	95
80) 1,3,5-Trimethylbenzene	11.91	105	255903	20.136	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.95	75	27512	15.783	ug/l	89
82) 4-Chlorotoluene	11.99	91	233493	20.427	ug/l	100
83) tert-Butylbenzene	12.22	119	260668	20.657	ug/l	99
84) 1,2,4-Trimethylbenzene	12.29	105	274633	20.856	ug/l	93
85) sec-Butylbenzene	12.39	105	342247	19.960	ug/l	96
86) p-Isopropyltoluene	12.54	119	284293	20.186	ug/l	98
87) 1,3-Dichlorobenzene	12.56	146	148145	20.764	ug/l	98
88) 1,4-Dichlorobenzene	12.64	146	141239	20.542	ug/l	97
89) n-Butylbenzene	12.92	91	293407	18.149	ug/l	93
90) Hexachloroethane	13.00	117	71160	20.518	ug/l	77
91) 1,2-Dichlorobenzene	13.02	146	149822	21.798	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.72	75	13111	18.361	ug/l	77

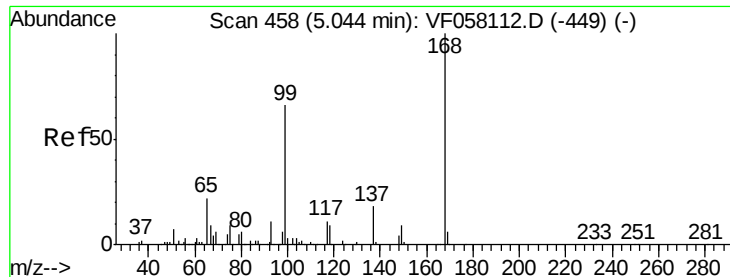
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QLast Update : Thu Jun 07 10:52:00 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.27	180	102668	21.356	ug/l	94
94) Hexachlorobutadiene	14.26	225	57188	20.557	ug/l	97
95) Naphthalene	14.53	128	201269	19.601	ug/l	98
96) 1,2,3-Trichlorobenzene	14.67	180	90877	20.456	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 458

Delta R.T. -0.00 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

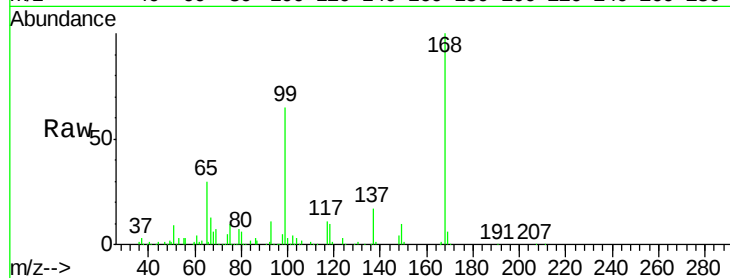
Instrument :
MSVOA_F
ClientSampled :

Tot Ion:168 Resp: 217498

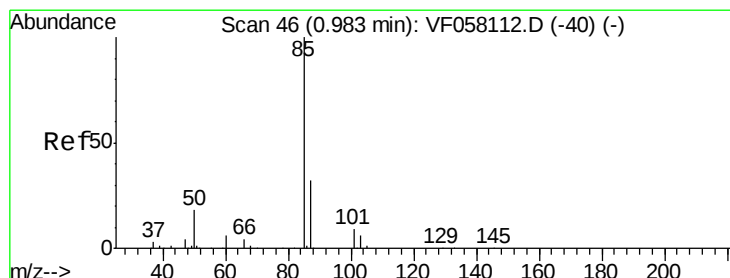
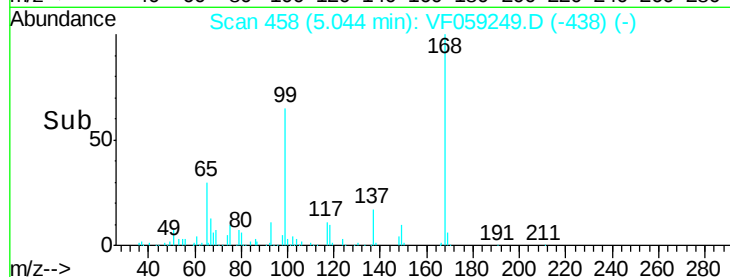
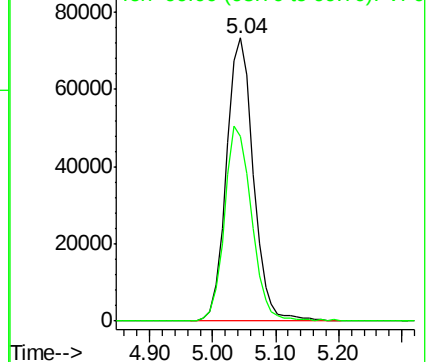
Ion Ratio Lower Upper

168 100

99 65.1 52.9 79.3



Abundance Ion 168.00 (167.70 to 168.70): VF0



#2

Dichlorodifluoromethane

Concen: 19.982 ug/l

RT: 0.98 min Scan# 46

Delta R.T. -0.00 min

Lab File: VF059249.D

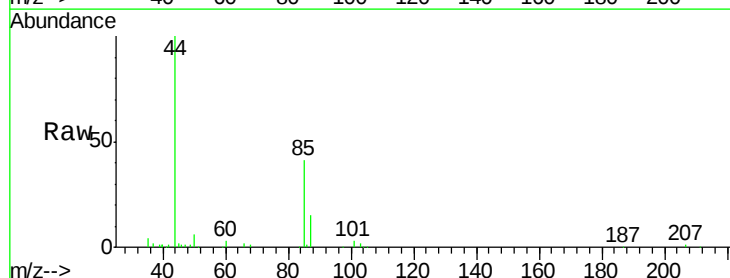
Acq: 21 Jun 2018 3:56

Tgt Ion: 85 Resp: 49190

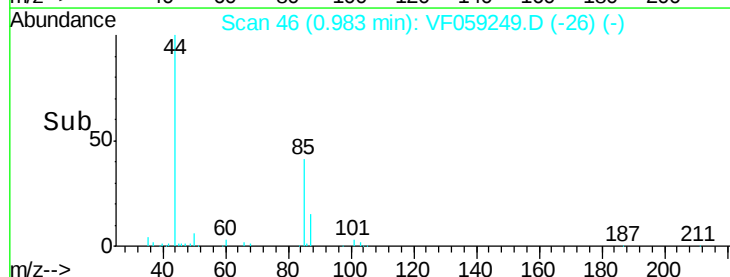
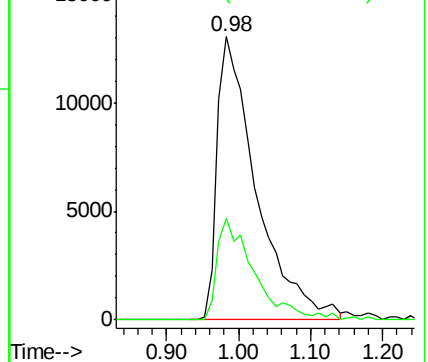
Ion Ratio Lower Upper

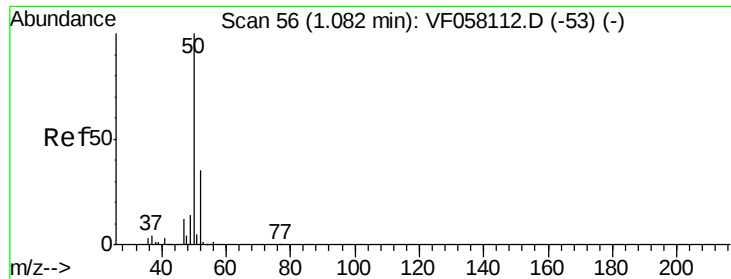
85 100

87 35.9 16.2 48.6



Abundance Ion 85.00 (84.70 to 85.70): VF0





#3

Chloromethane

Concen: 14.886 ug/l

RT: 1.08 min Scan# 56

Delta R.T. -0.00 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

Instrument :

MSVOA_F

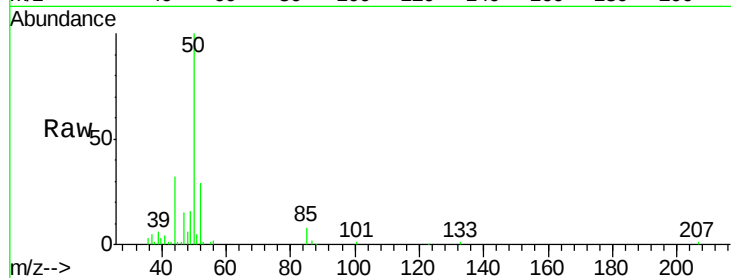
ClientSampleId :

Tot Ion: 50 Resp: 28385

Ion Ratio Lower Upper

50 100

52 28.7 27.3 40.9



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.08

25000

20000

15000

10000

5000

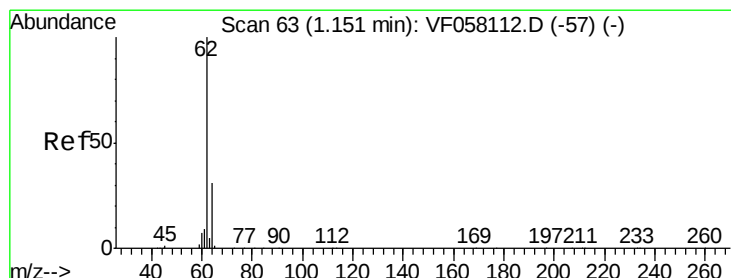
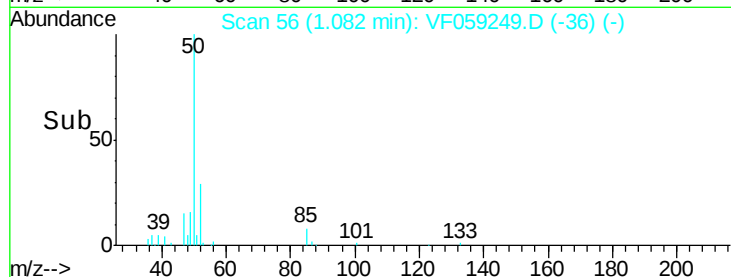
0

Time-->

1.00

1.10

1.20



#4

Vinyl Chloride

Concen: 17.312 ug/l

RT: 1.14 min Scan# 62

Delta R.T. -0.01 min

Lab File: VF059249.D

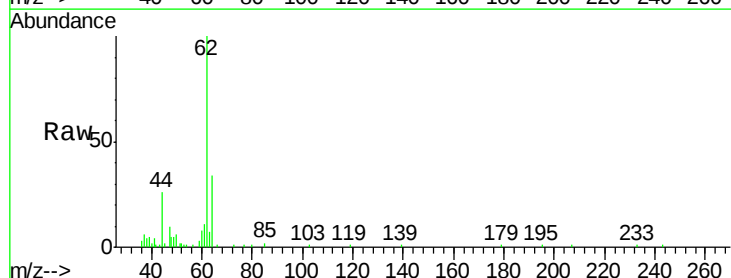
Acq: 21 Jun 2018 3:56

Tgt Ion: 62 Resp: 29782

Ion Ratio Lower Upper

62 100

64 33.7 25.0 37.6



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0

1.14

15000

10000

5000

0

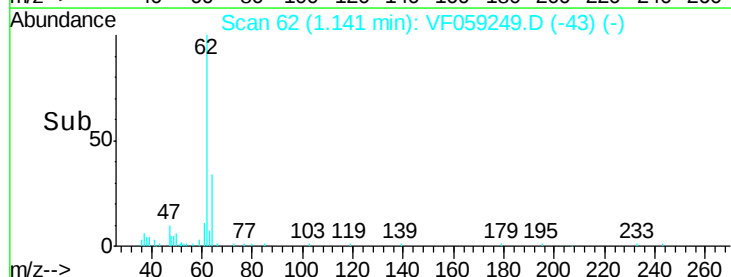
Time-->

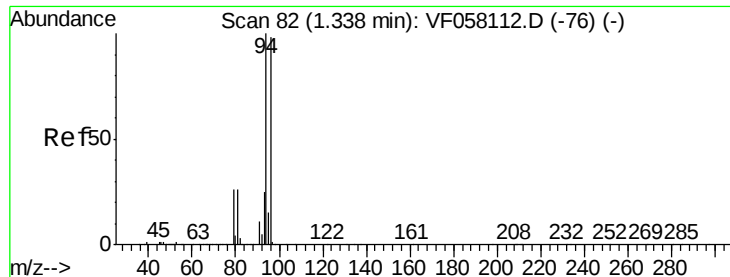
1.00

1.10

1.20

1.30





#5

Bromomethane

Concen: 19.465 ug/l

RT: 1.34 min Scan# 82

Delta R.T. -0.00 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

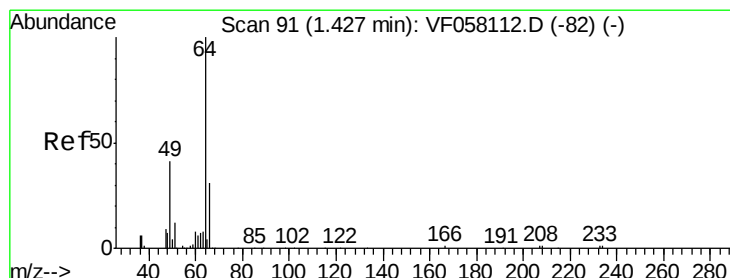
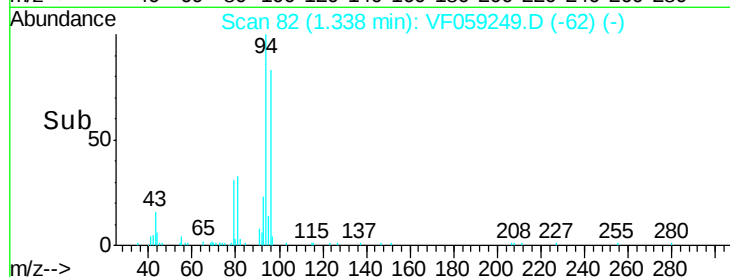
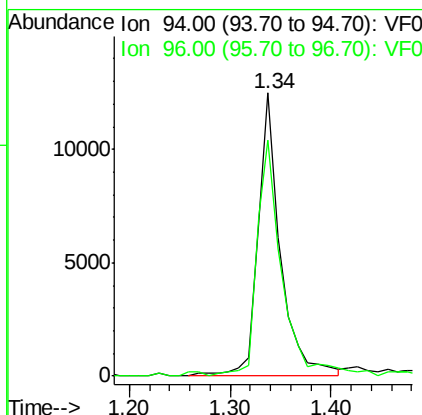
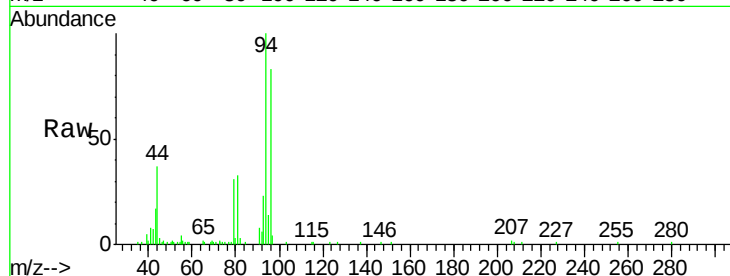
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 94 Resp: 19512

Ion Ratio Lower Upper

94 100

96 83.5 78.6 117.8



#6

Chloroethane

Concen: 20.579 ug/l

RT: 1.43 min Scan# 91

Delta R.T. -0.00 min

Lab File: VF059249.D

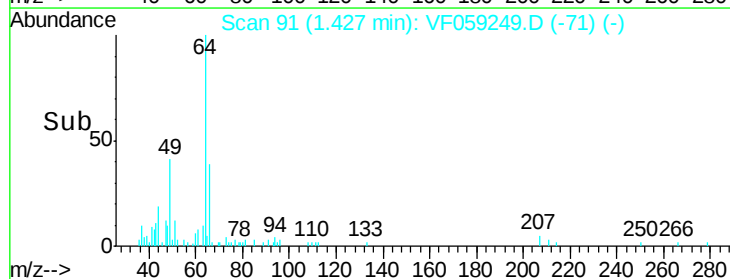
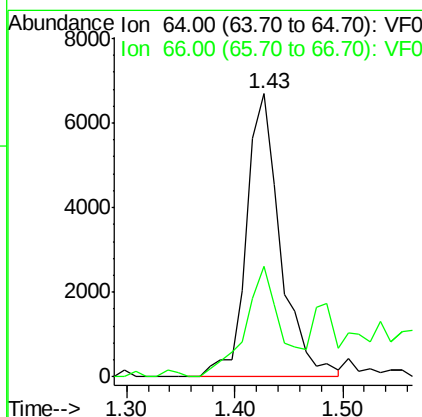
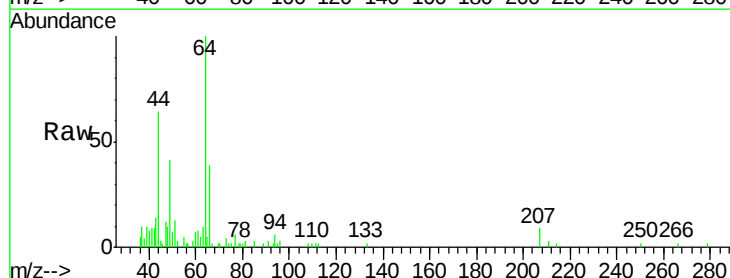
Acq: 21 Jun 2018 3:56

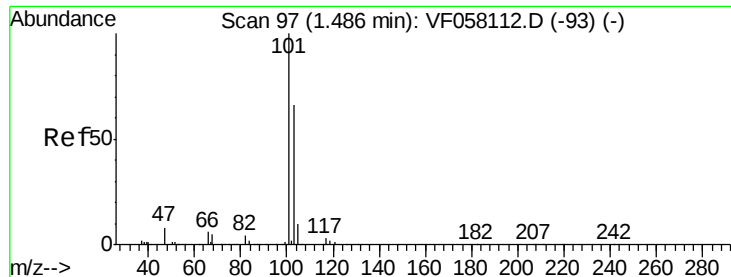
Tgt Ion: 64 Resp: 14689

Ion Ratio Lower Upper

64 100

66 39.3 24.9 37.3#





#7

Trichlorofluoromethane

Concen: 7.849 ug/l

RT: 1.49 min Scan# 97

Delta R.T. -0.00 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

Instrument :

MSVOA_F

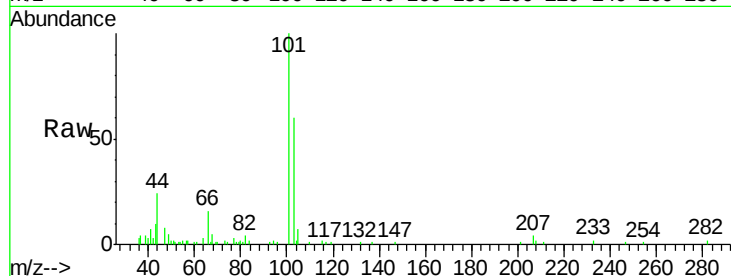
ClientSampleId :

Tot Ion:101 Resp: 20989

Ion Ratio Lower Upper

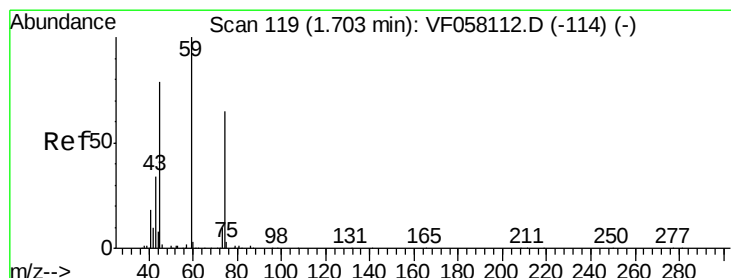
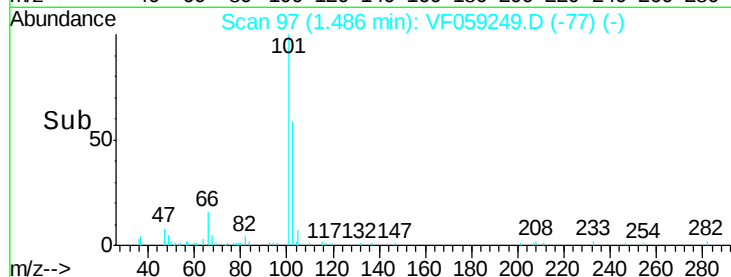
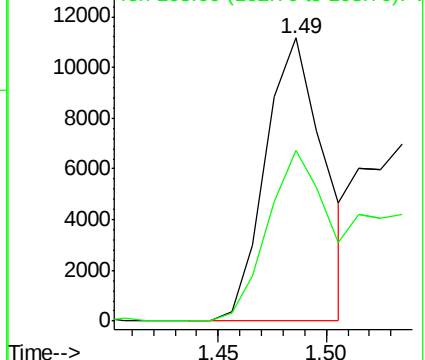
101 100

103 60.4 53.4 80.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 20.941 ug/l

RT: 1.70 min Scan# 119

Delta R.T. -0.00 min

Lab File: VF059249.D

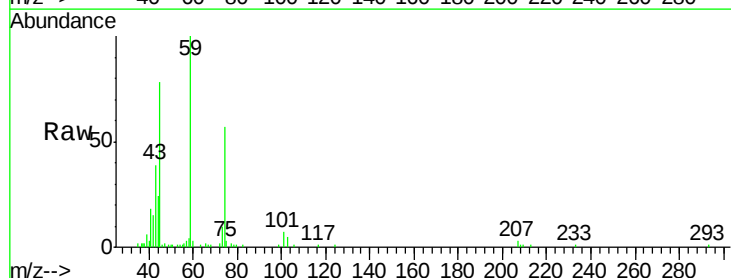
Acq: 21 Jun 2018 3:56

Tgt Ion: 74 Resp: 14089

Ion Ratio Lower Upper

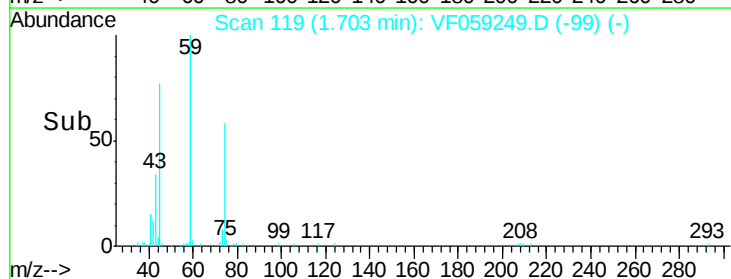
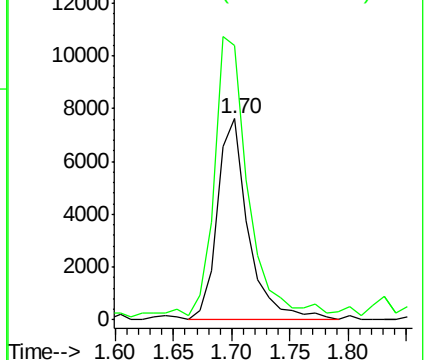
74 100

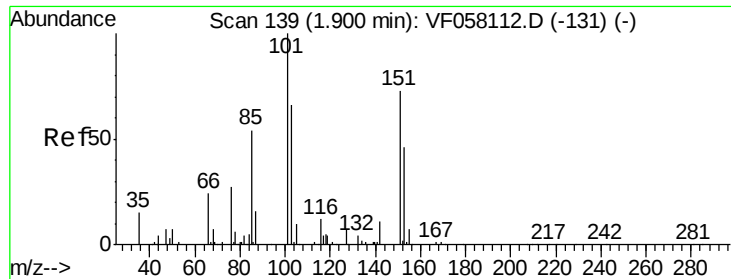
45 136.5 61.5 184.4



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.943 ug/l

RT: 1.90 min Scan# 139

Delta R.T. -0.00 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

Instrument :

MSVOA_F

ClientSampleId :

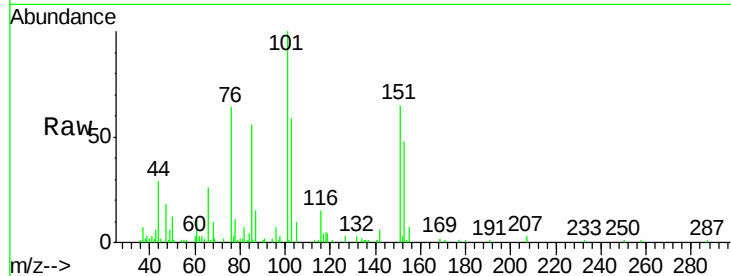
Tot Ion:101 Resp: 37397

Ion Ratio Lower Upper

101 100

85 56.8 42.2 63.4

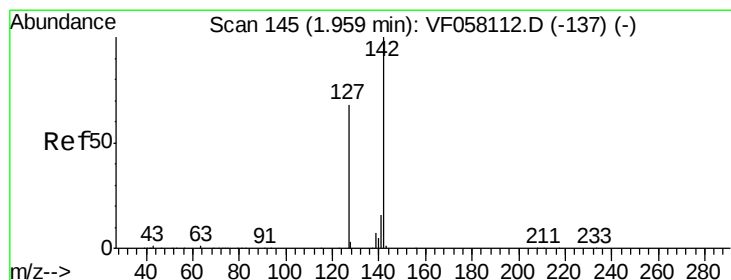
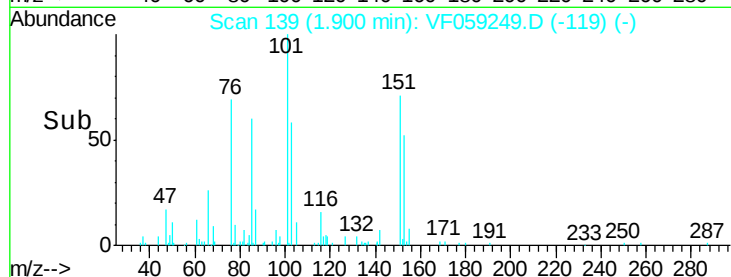
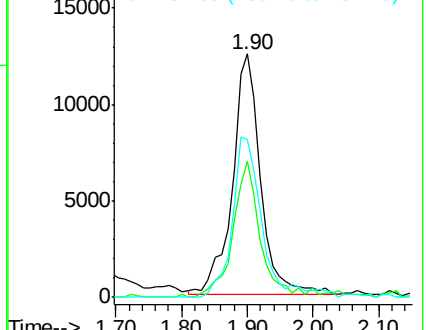
151 65.0 56.8 85.2



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: 21.092 ug/l

RT: 1.97 min Scan# 146

Delta R.T. 0.01 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

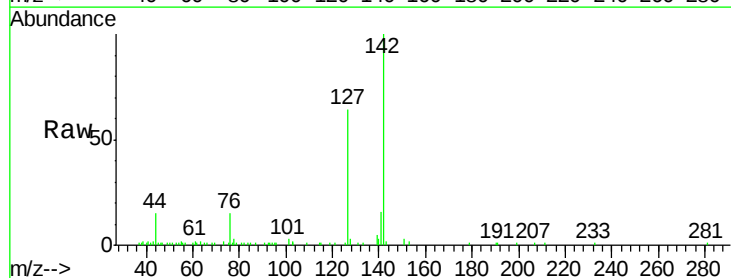
Tgt Ion:142 Resp: 62898

Ion Ratio Lower Upper

142 100

127 64.2 54.1 81.1

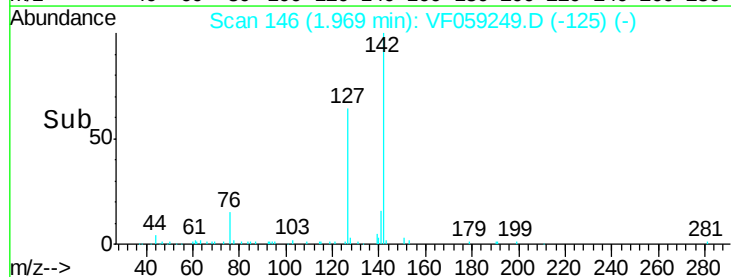
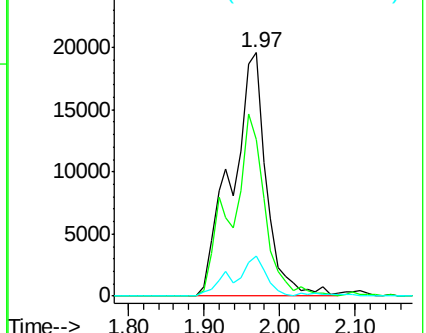
141 16.4 13.0 19.4

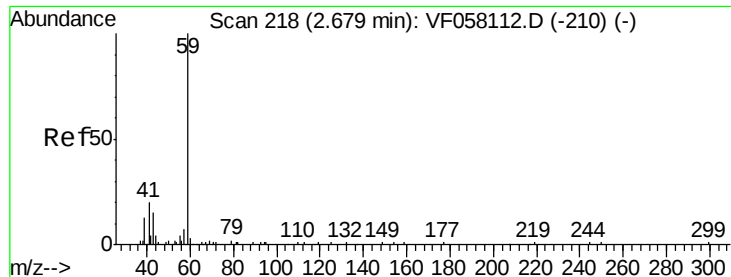


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



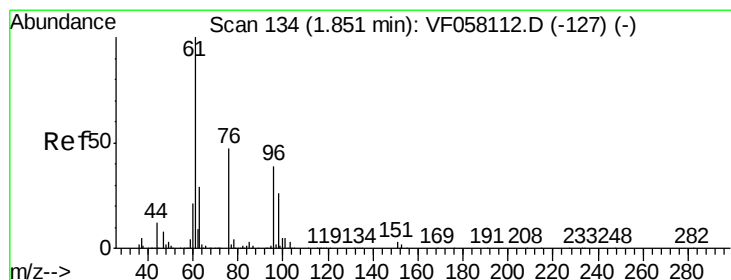
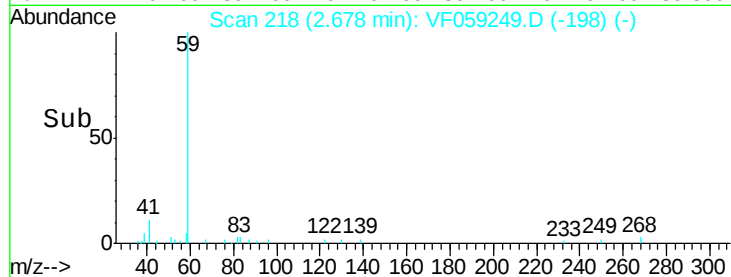
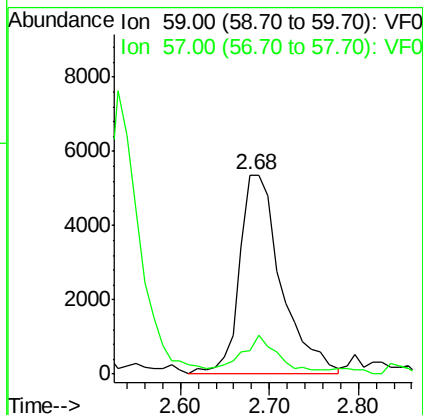
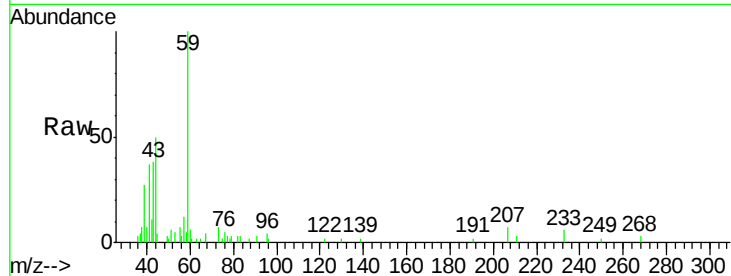


#11

Tert butyl alcohol
 Concen: 103.282 ug/l
 RT: 2.68 min Scan# 218
 Delta R.T. -0.00 min
 Lab File: VF059249.D
 Acq: 21 Jun 2018 3:56

Instrument :
 MSVOA_F
 ClientSampled :

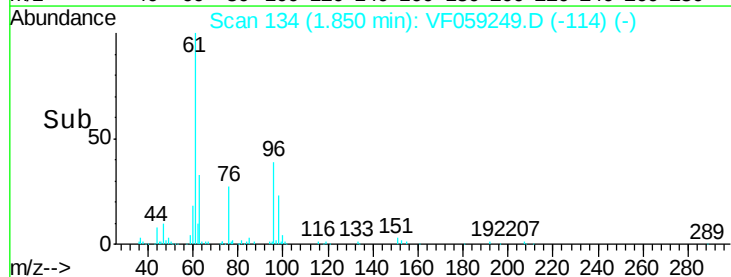
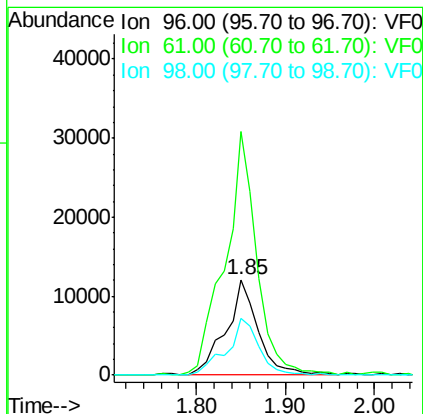
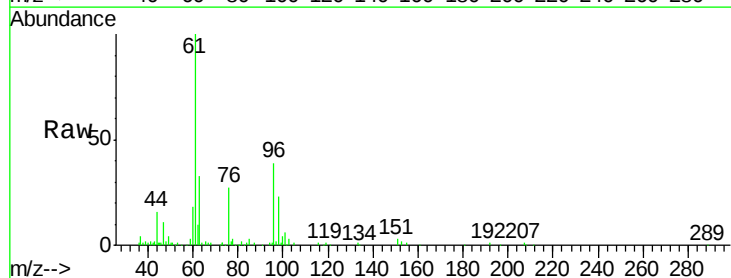
Tot Ion: 59 Resp: 17456
 Ion Ratio Lower Upper
 59 100
 57 11.6 8.7 13.1

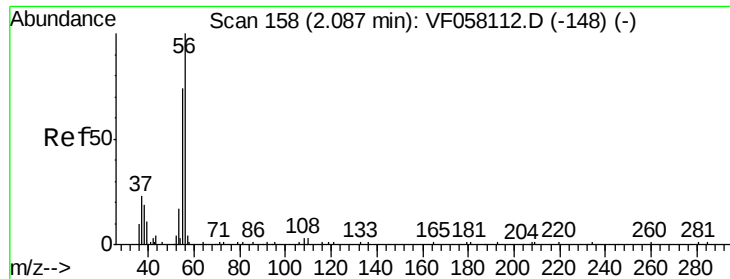


#12

1,1-Dichloroethene
 Concen: 21.296 ug/l
 RT: 1.85 min Scan# 134
 Delta R.T. -0.00 min
 Lab File: VF059249.D
 Acq: 21 Jun 2018 3:56

Tgt Ion: 96 Resp: 30520
 Ion Ratio Lower Upper
 96 100
 61 255.8 203.0 304.4
 98 59.1 52.7 79.1





#13

Acrolein

Concen: 60.484 ug/l

RT: 2.09 min Scan# 158

Delta R.T. -0.00 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

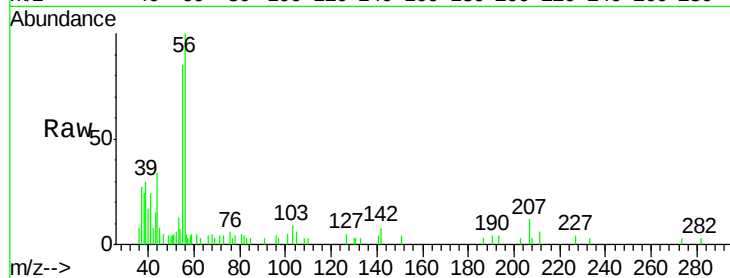
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 56 Resp: 8848

Ion Ratio Lower Upper

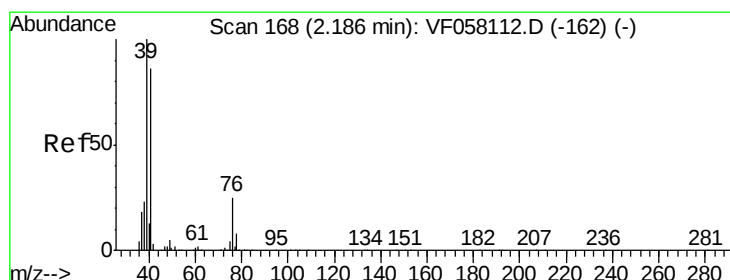
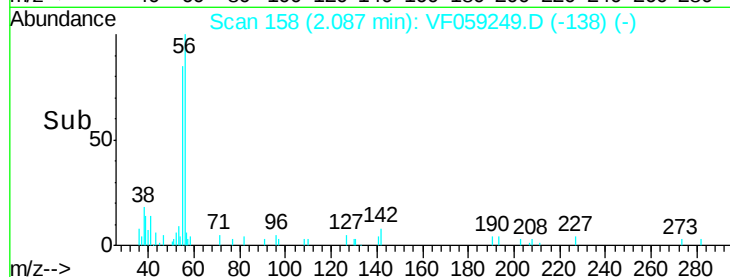
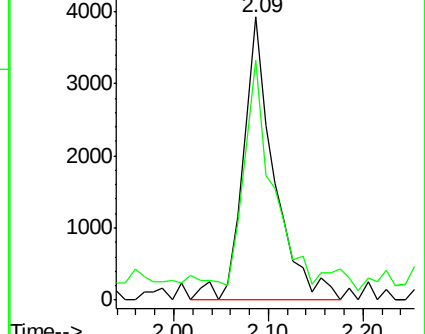
56 100

55 84.9 60.0 90.0



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 19.372 ug/l

RT: 2.19 min Scan# 168

Delta R.T. -0.00 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

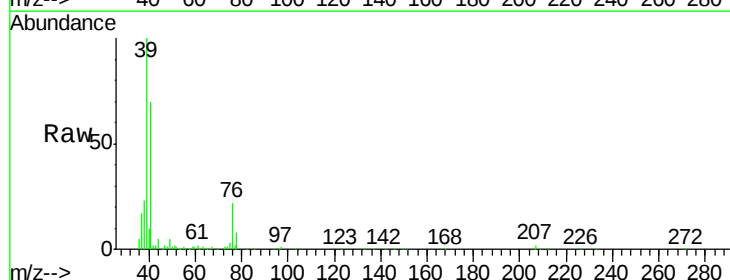
Tgt Ion: 41 Resp: 54489

Ion Ratio Lower Upper

41 100

39 143.4 93.5 140.3#

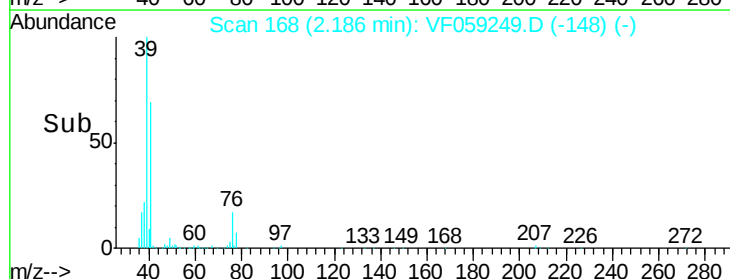
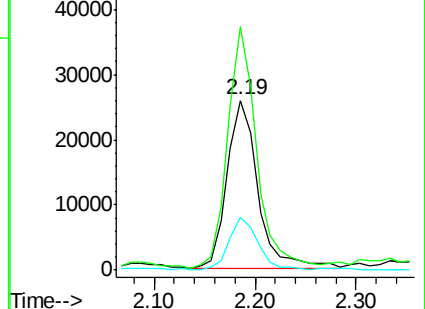
76 31.2 23.9 35.9

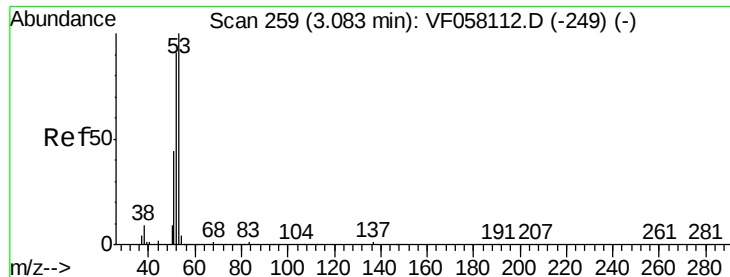


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0





#15

Acrylonitrile

Concen: 108.907 ug/l

RT: 3.07 min Scan# 258

Delta R.T. -0.01 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

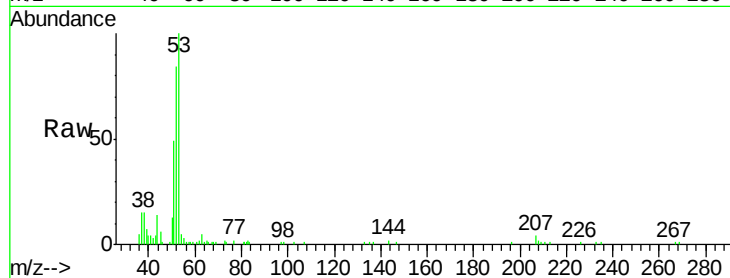
Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 53 Resp: 36557

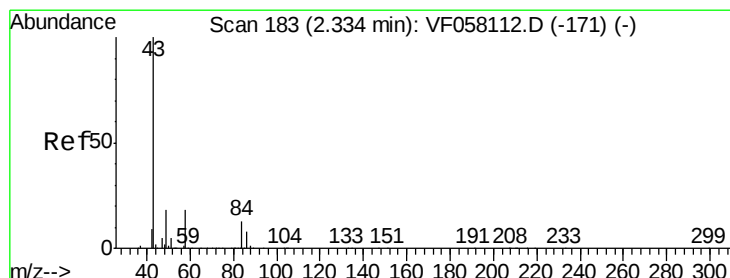
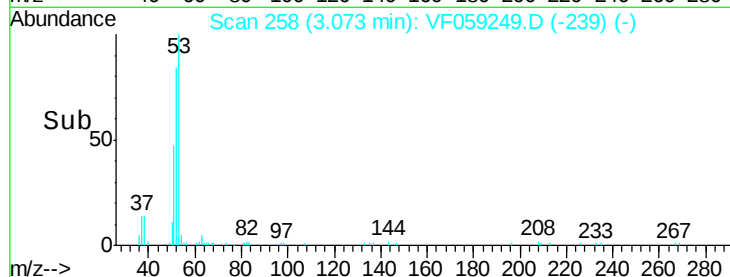
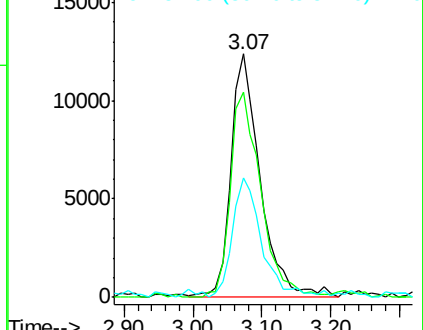
Ion	Ratio	Lower	Upper
53	100		
52	84.1	73.2	109.8
51	49.0	35.6	53.4



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: 91.605 ug/l

RT: 2.33 min Scan# 183

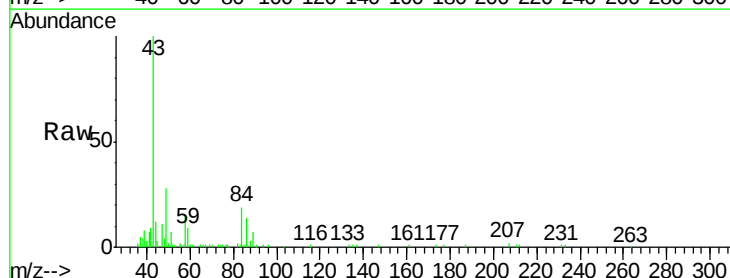
Delta R.T. -0.00 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

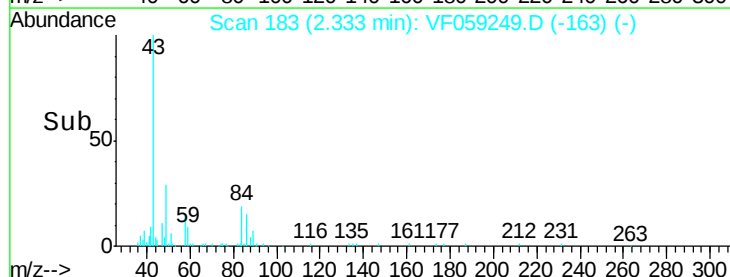
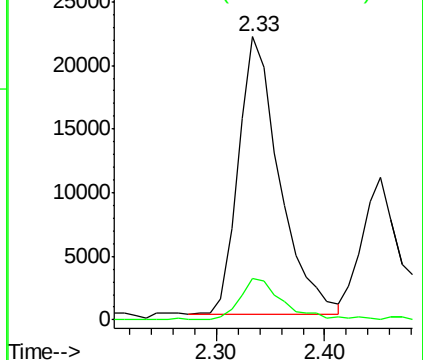
Tgt Ion: 43 Resp: 57693

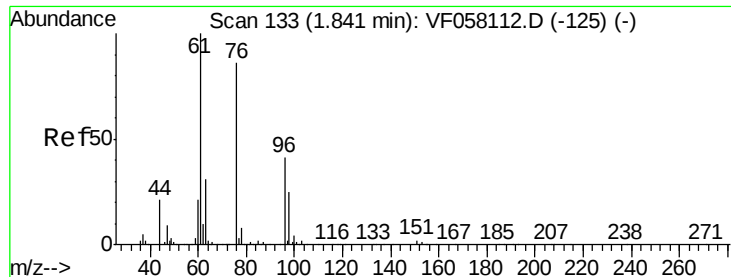
Ion	Ratio	Lower	Upper
43	100		
58	14.6	14.4	21.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#17

Carbon Disulfide

Concen: 16.226 ug/l

RT: 1.87 min Scan# 136

Delta R.T. 0.03 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

Instrument :

MSVOA_F

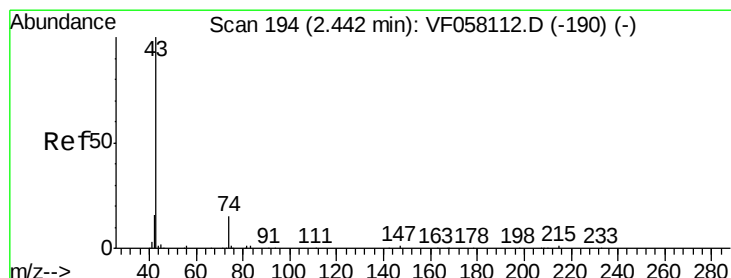
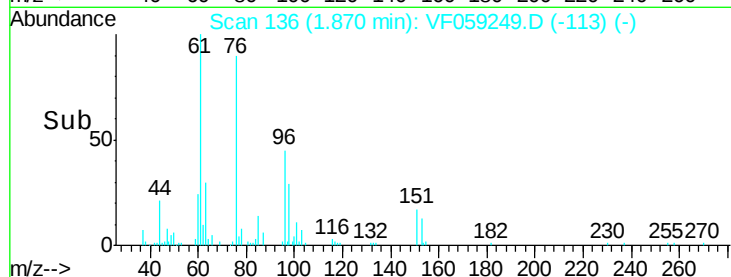
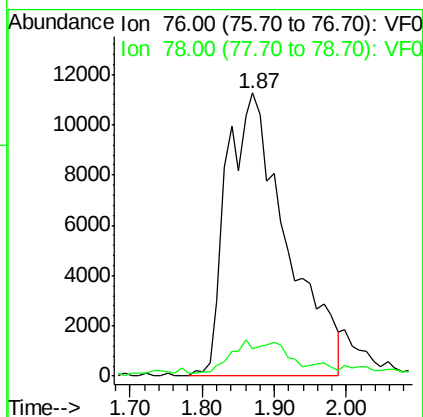
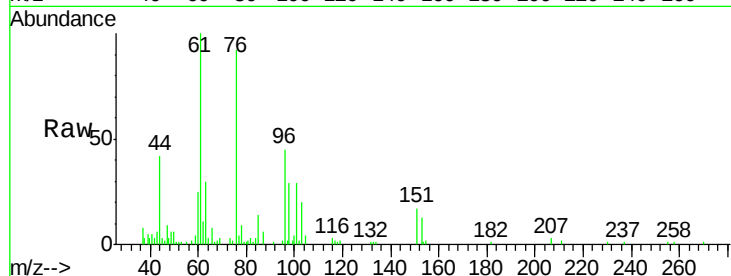
ClientSampleId :

Tot Ion: 76 Resp: 65288

Ion Ratio Lower Upper

76 100

78 9.8 7.8 11.8



#18

Methyl Acetate

Concen: 21.973 ug/l

RT: 2.45 min Scan# 195

Delta R.T. 0.01 min

Lab File: VF059249.D

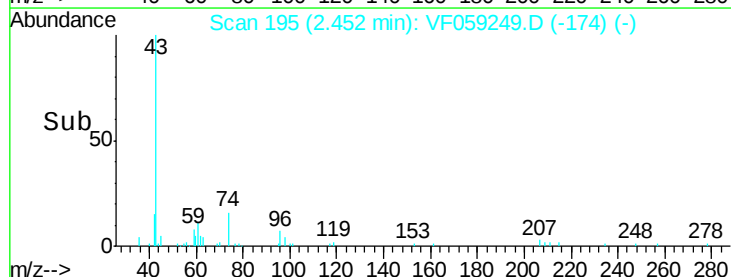
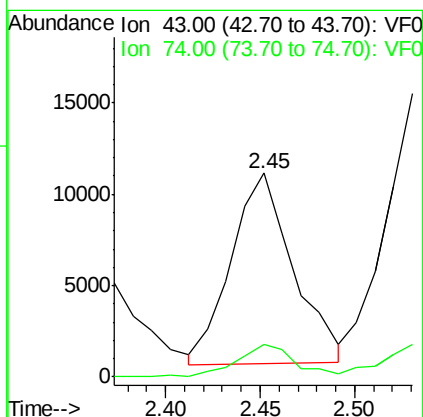
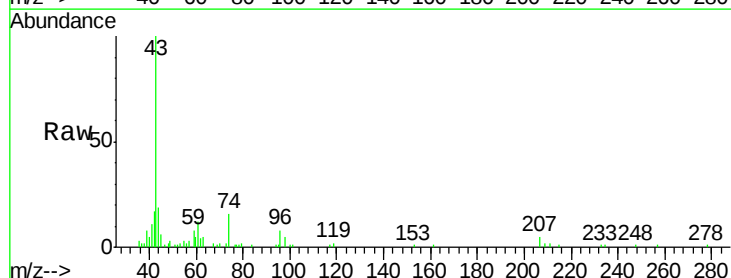
Acq: 21 Jun 2018 3:56

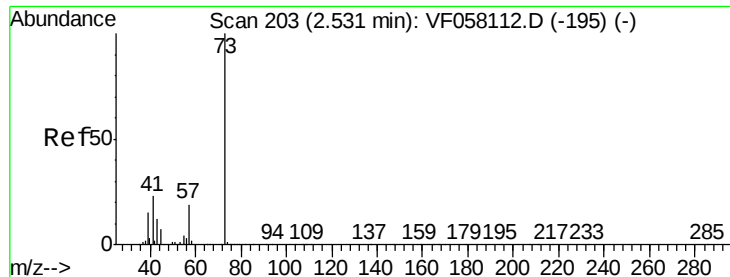
Tgt Ion: 43 Resp: 23790

Ion Ratio Lower Upper

43 100

74 16.1 10.9 16.3



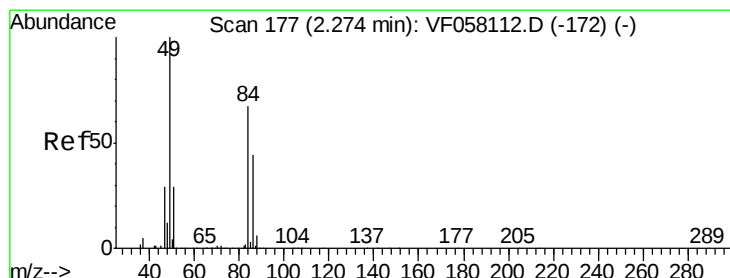
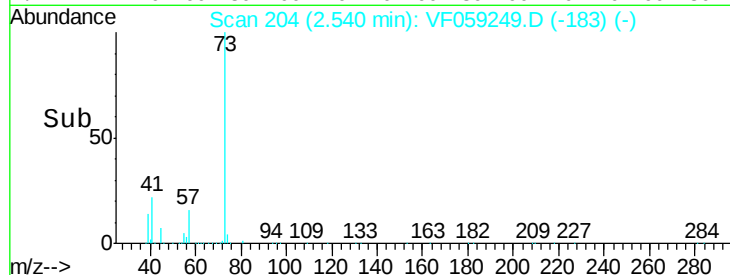
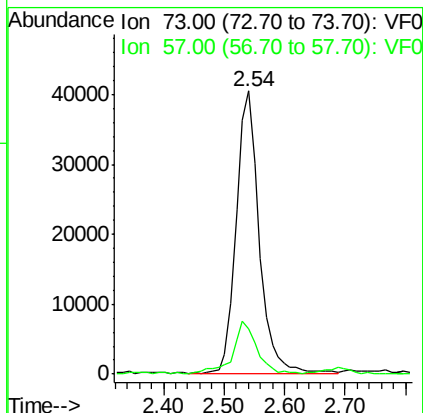
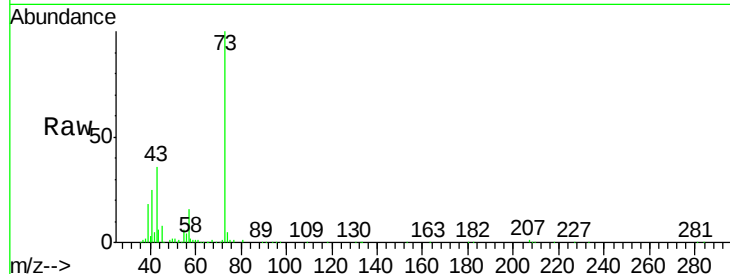


#19

Methyl tert-butyl Ether
Concen: 24.299 ug/l
RT: 2.54 min Scan# 204
Delta R.T. 0.01 min
Lab File: VF059249.D
Acq: 21 Jun 2018 3:56

Instrument :
MSVOA_F
ClientSampled :

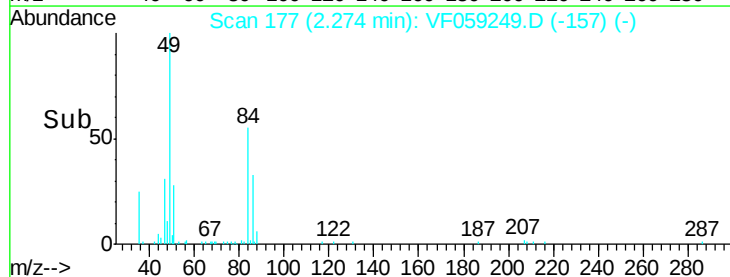
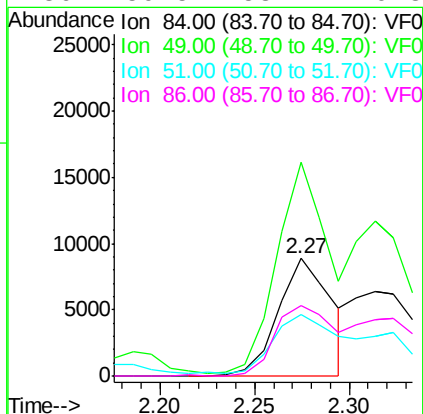
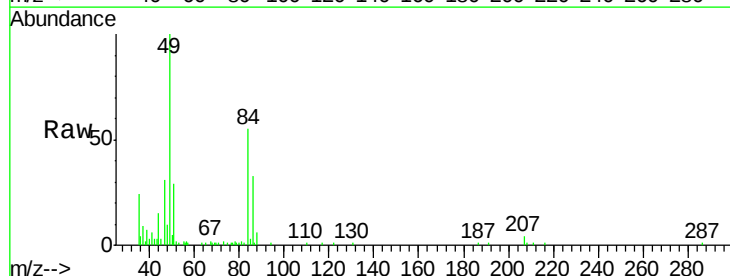
Tot Ion: 73 Resp: 108106
Ion Ratio Lower Upper
73 100
57 15.9 15.0 22.4

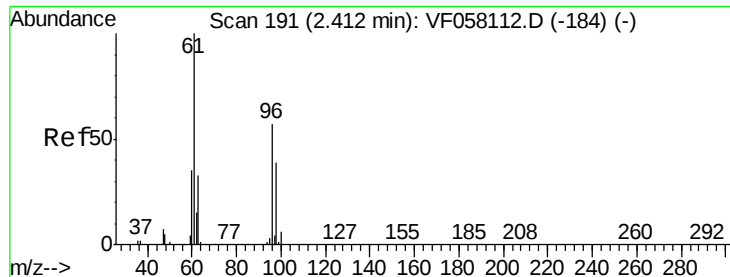


#20

Methylene Chloride
Concen: 11.501 ug/l
RT: 2.27 min Scan# 177
Delta R.T. -0.00 min
Lab File: VF059249.D
Acq: 21 Jun 2018 3:56

Tgt Ion: 84 Resp: 17343
Ion Ratio Lower Upper
84 100
49 181.9 121.0 181.4#
51 52.2 35.8 53.6
86 59.5 53.2 79.8





#21

trans-1,2-Dichloroethene

Concen: 21.673 ug/l

RT: 2.41 min Scan# 191

Delta R.T. -0.00 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

Instrument :
MSVOA_F
ClientSampleId :

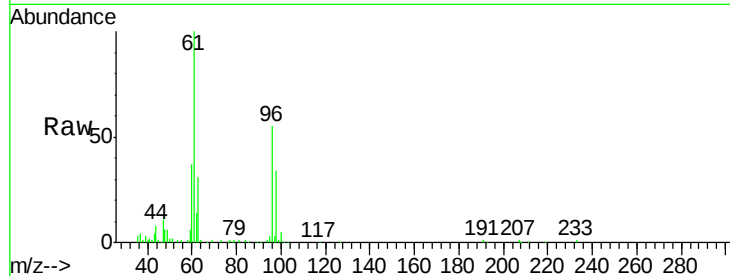
Tot Ion: 96 Resp: 34063

Ion Ratio Lower Upper

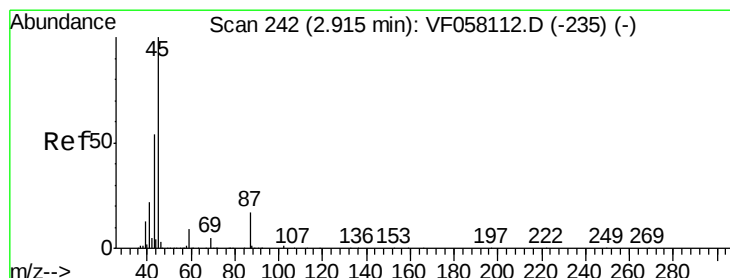
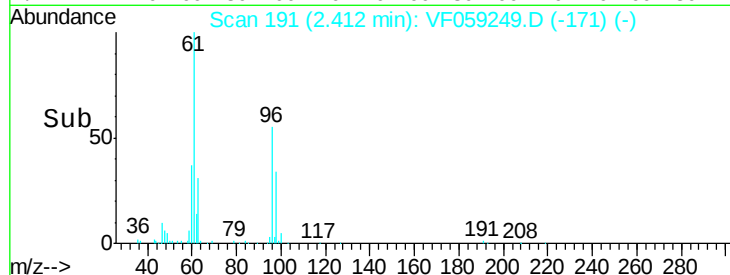
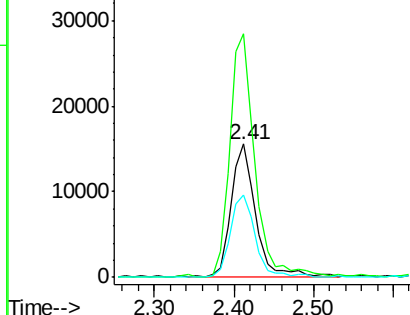
96 100

61 183.1 139.4 209.2

98 61.6 54.0 81.0



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



#22

Diisopropyl ether

Concen: 21.153 ug/l

RT: 2.92 min Scan# 243

Delta R.T. 0.01 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

Tgt Ion: 45 Resp: 116964

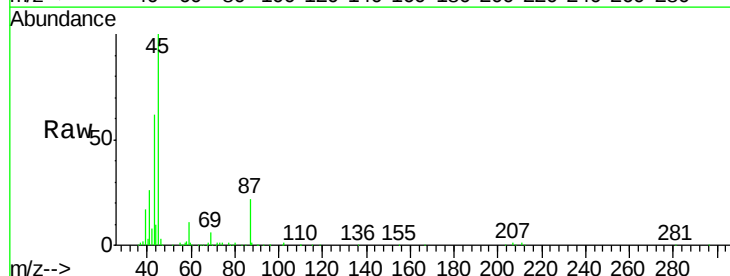
Ion Ratio Lower Upper

45 100

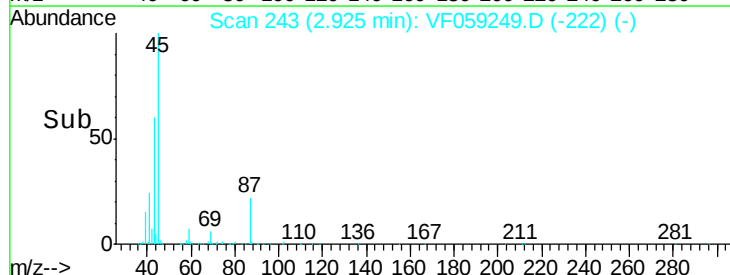
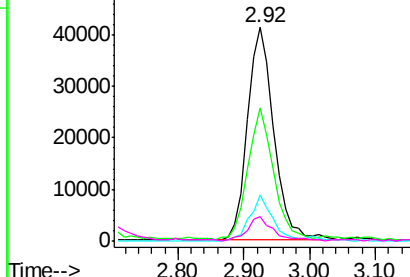
43 62.1 43.2 64.8

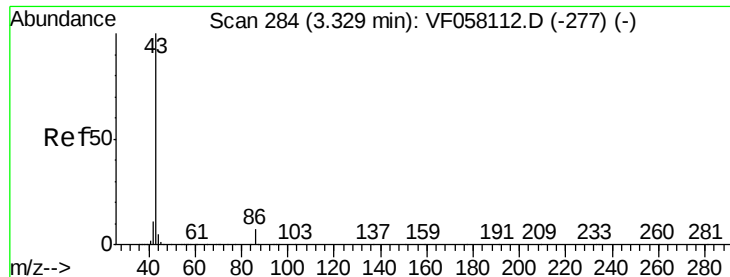
87 21.7 13.8 20.6#

59 11.1 7.5 11.3



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





#23

Vinyl Acetate

Concen: 103.281 ug/l

RT: 3.33 min Scan# 284

Delta R.T. -0.00 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

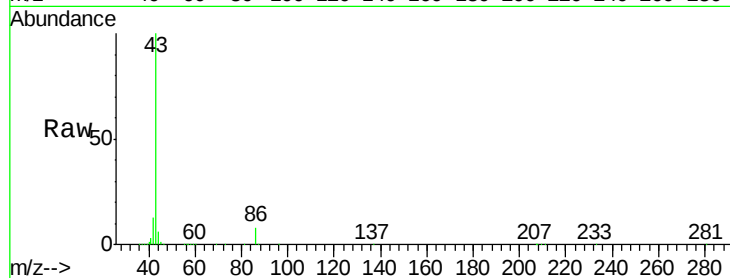
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 376534

Ion Ratio Lower Upper

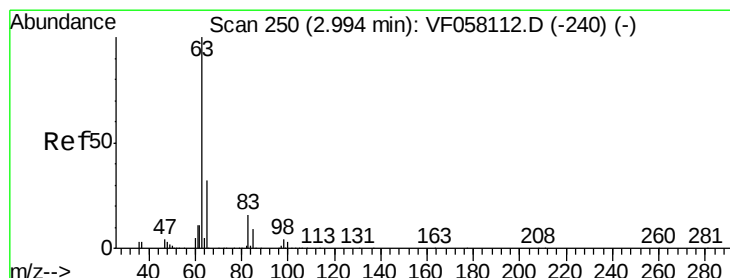
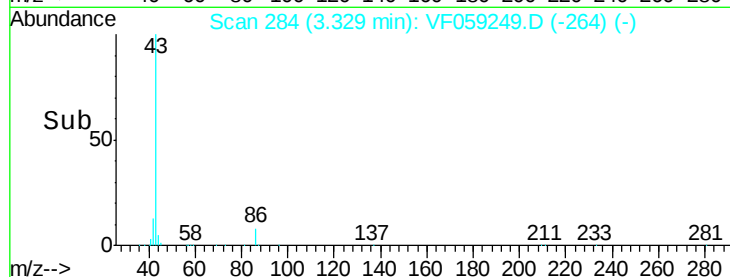
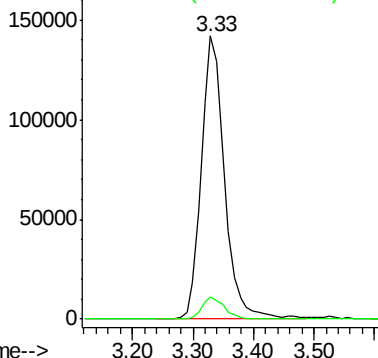
43 100

86 7.9 6.0 9.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 23.602 ug/l

RT: 3.00 min Scan# 251

Delta R.T. 0.01 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

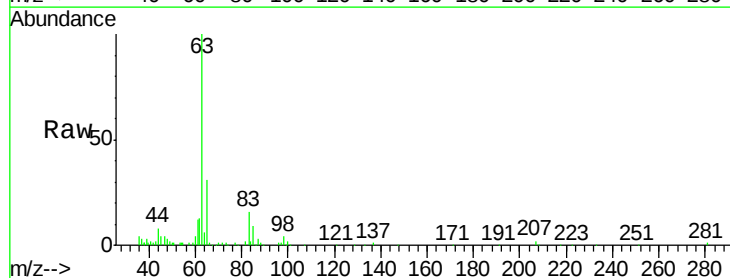
Tgt Ion: 63 Resp: 79120

Ion Ratio Lower Upper

63 100

98 3.5 2.0 6.0

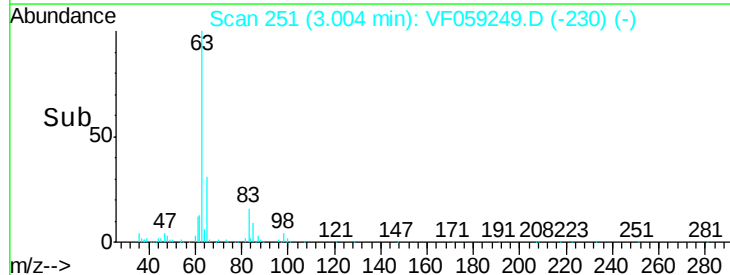
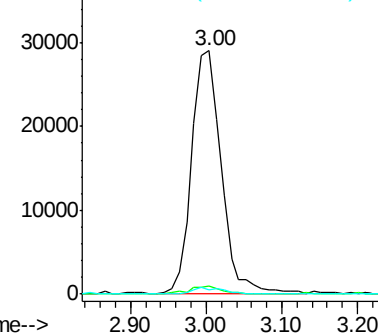
100 1.9 1.4 4.0

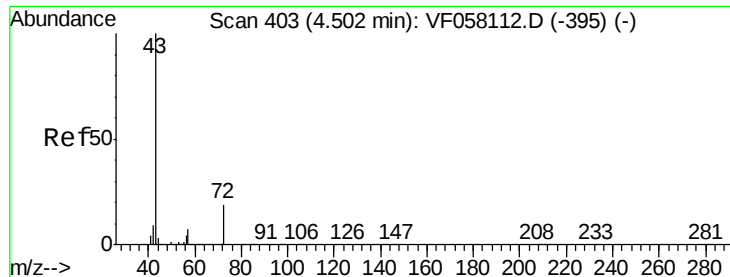


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 90.485 ug/l

RT: 4.51 min Scan# 404

Delta R.T. 0.01 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

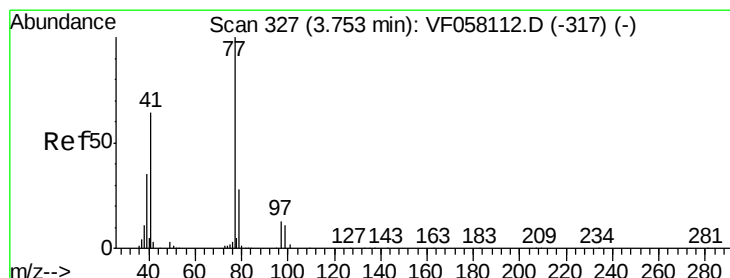
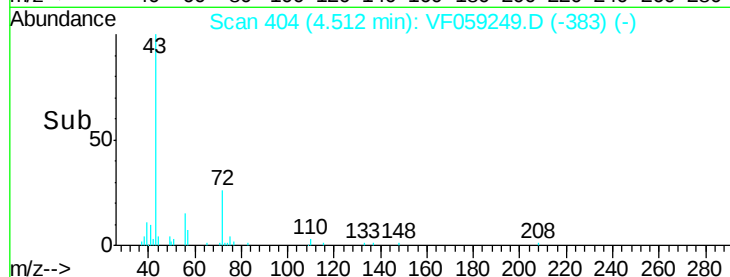
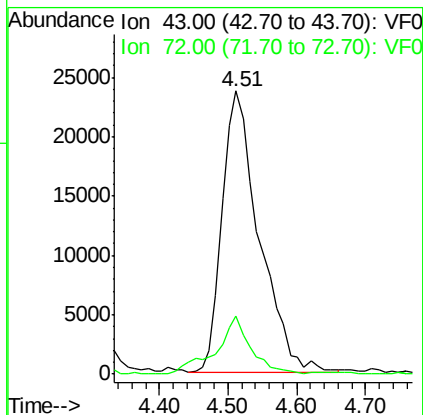
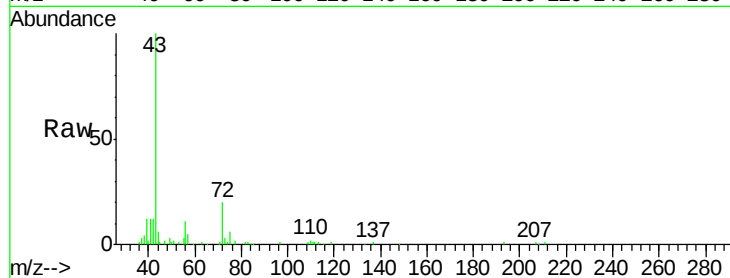
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 88350

Ion Ratio Lower Upper

43 100

72 20.4 16.1 24.1



#26

2,2-Dichloropropane

Concen: 19.876 ug/l

RT: 3.76 min Scan# 328

Delta R.T. 0.01 min

Lab File: VF059249.D

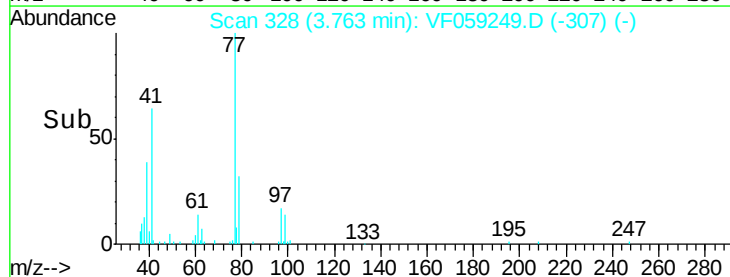
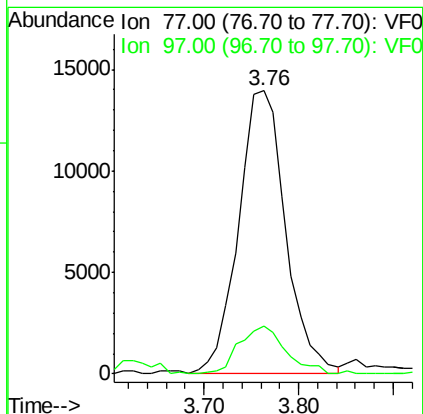
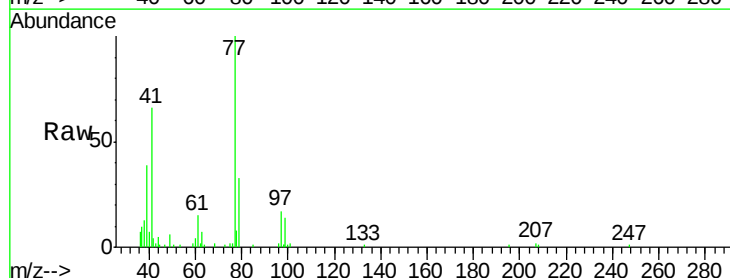
Acq: 21 Jun 2018 3:56

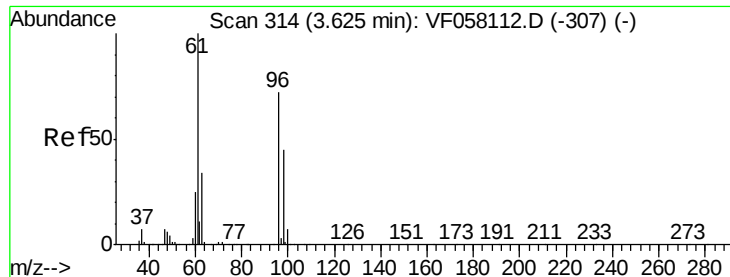
Tgt Ion: 77 Resp: 48337

Ion Ratio Lower Upper

77 100

97 17.0 7.2 21.6



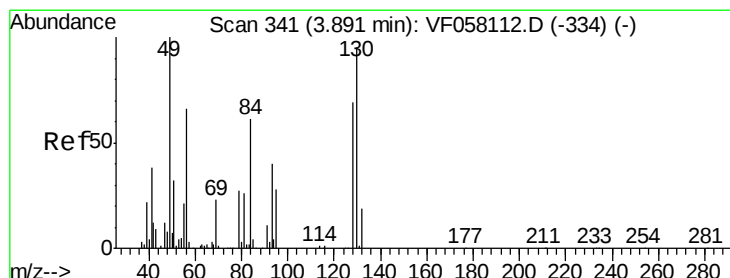
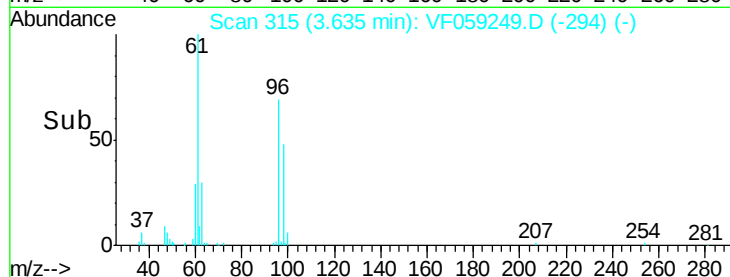
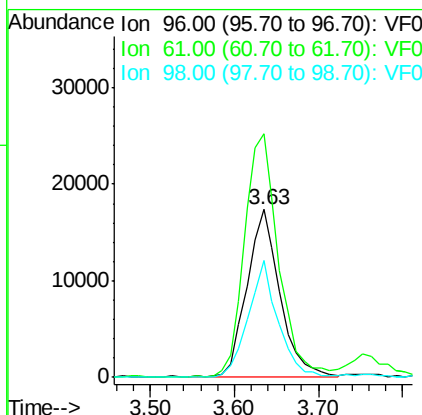
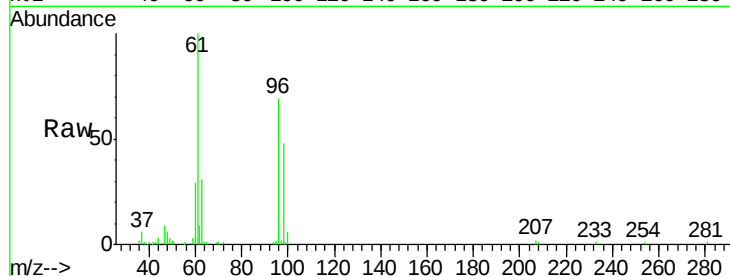


#27

cis-1,2-Dichloroethene
Concen: 19.815 ug/l
RT: 3.63 min Scan# 315
Delta R.T. 0.01 min
Lab File: VF059249.D
Acq: 21 Jun 2018 3:56

Instrument :
MSVOA_F
ClientSampleId :

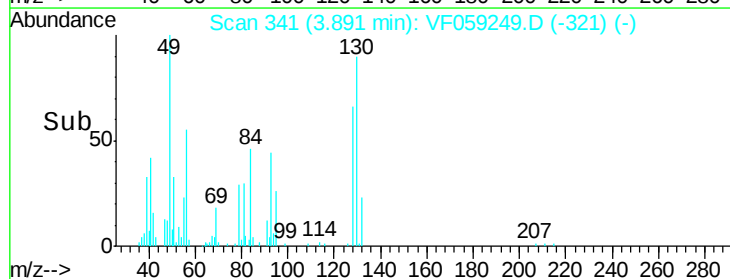
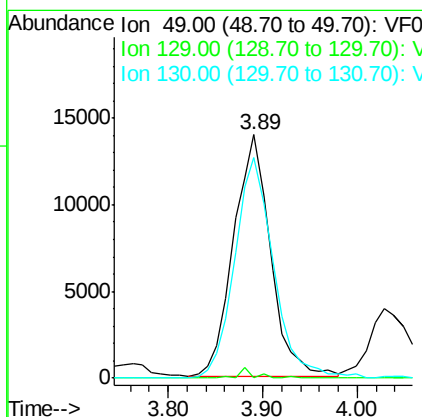
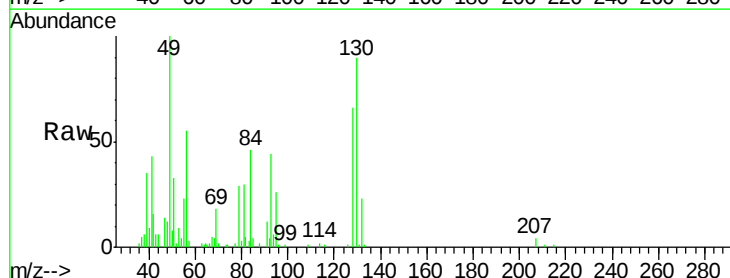
Tot Ion	96	Resp	47932
Ion	Ratio	Lower	Upper
96	100		
61	145.0	0.0	278.6
98	69.8	0.0	125.2

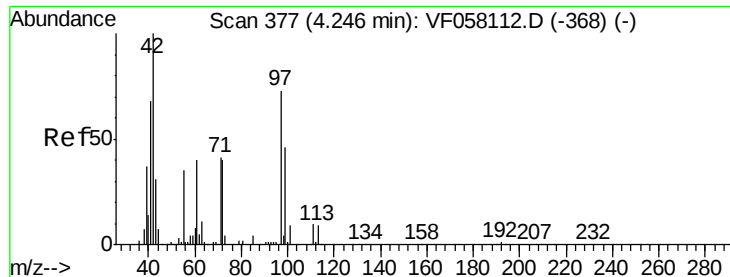


#28

Bromochloromethane
Concen: 24.979 ug/l
RT: 3.89 min Scan# 341
Delta R.T. -0.00 min
Lab File: VF059249.D
Acq: 21 Jun 2018 3:56

Tgt Ion	49	Resp	37689
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	0.0
130	90.4	75.8	113.8





#29

Tetrahydrofuran

Concen: 97.973 ug/l

RT: 4.27 min Scan# 379

Delta R.T. 0.02 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

Instrument :

MSVOA_F

ClientSampleId :

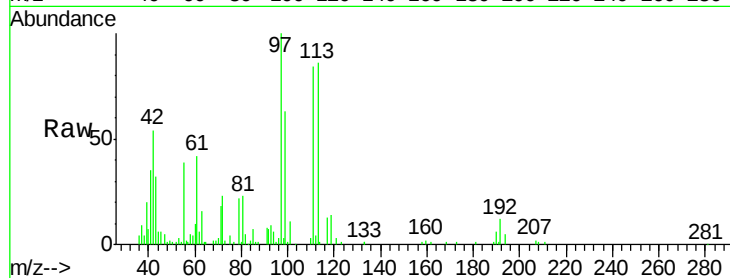
Tot Ion: 42 Resp: 42151

Ion Ratio Lower Upper

42 100

72 37.5 30.5 45.7

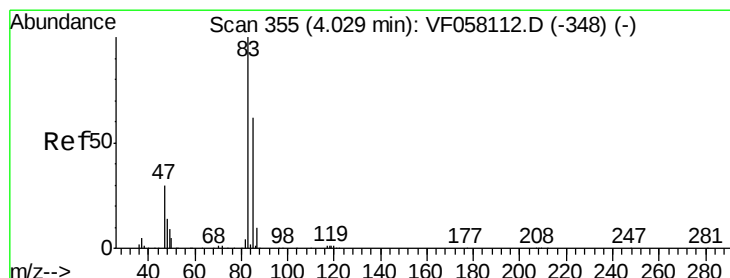
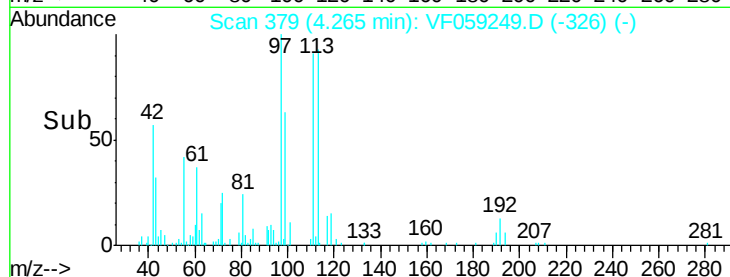
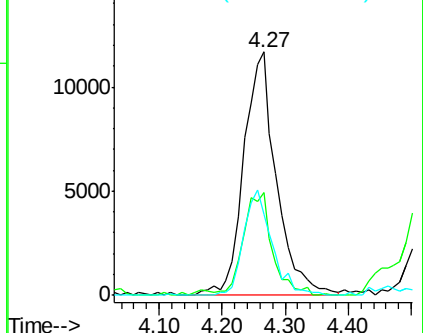
71 37.3 31.5 47.3



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#30

Chloroform

Concen: 23.325 ug/l

RT: 4.04 min Scan# 356

Delta R.T. 0.01 min

Lab File: VF059249.D

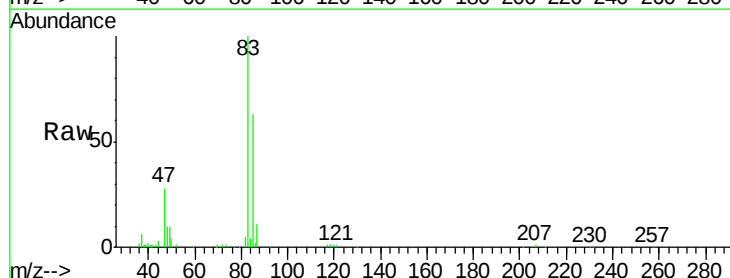
Acq: 21 Jun 2018 3:56

Tgt Ion: 83 Resp: 111855

Ion Ratio Lower Upper

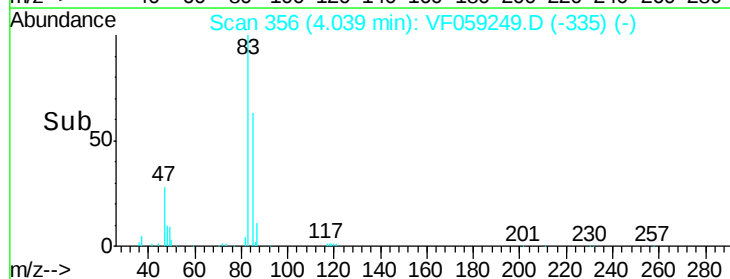
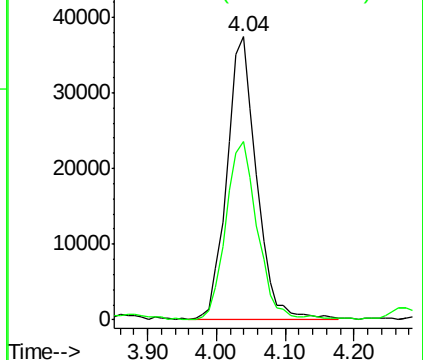
83 100

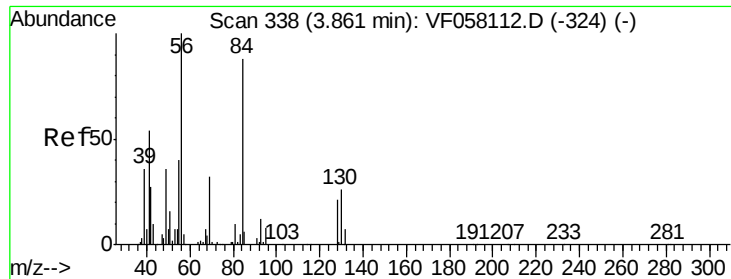
85 63.0 49.5 74.3



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0





#31

Cyclohexane

Concen: 17.252 ug/l

RT: 3.88 min Scan# 340

Delta R.T. 0.02 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

Instrument :
MSVOA_F
ClientSampled :

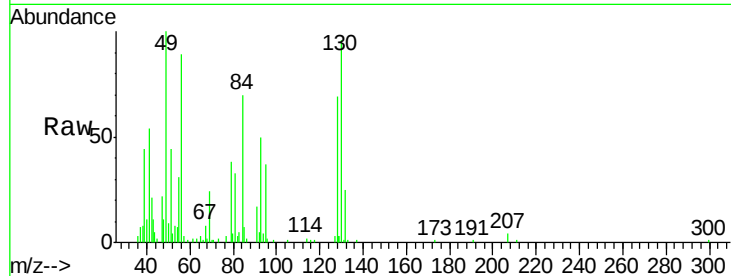
Tot Ion: 56 Resp: 50520

Ion Ratio Lower Upper

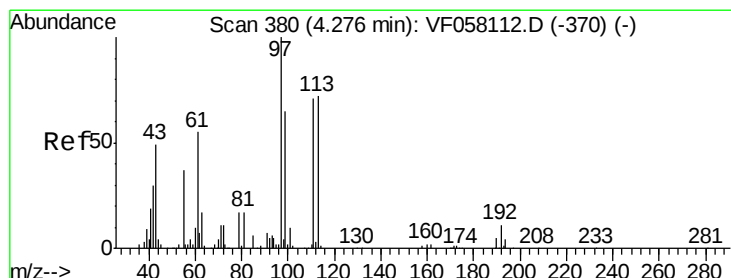
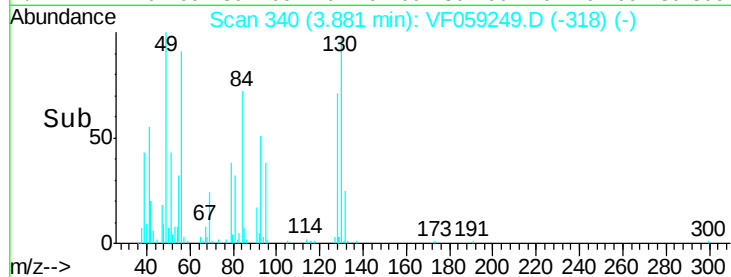
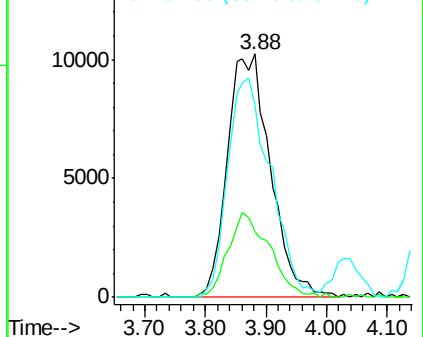
56 100

69 27.0 25.9 38.9

84 79.2 70.3 105.5



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: 24.289 ug/l

RT: 4.28 min Scan# 380

Delta R.T. -0.00 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

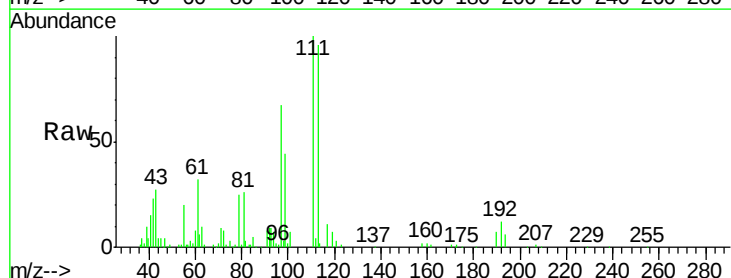
Tgt Ion: 97 Resp: 86955

Ion Ratio Lower Upper

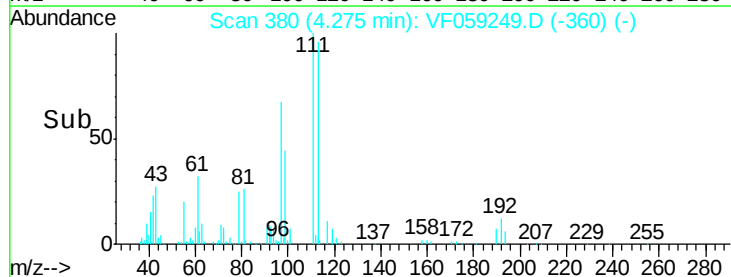
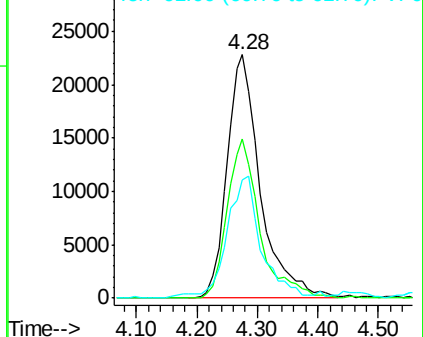
97 100

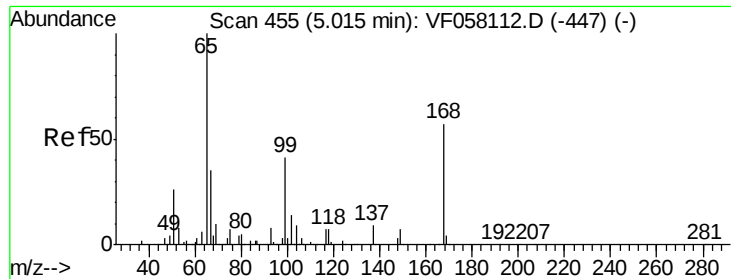
99 65.5 52.0 78.0

61 48.6 44.3 66.5



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

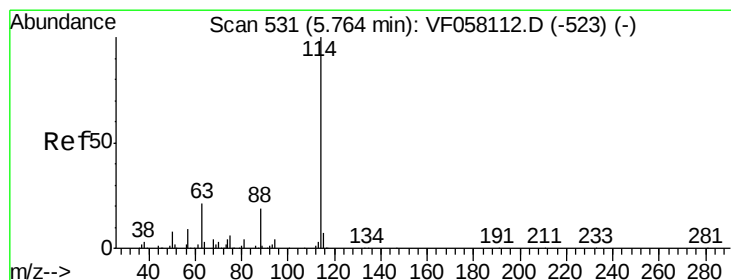
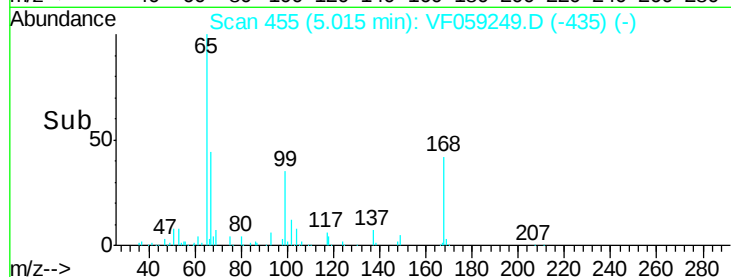
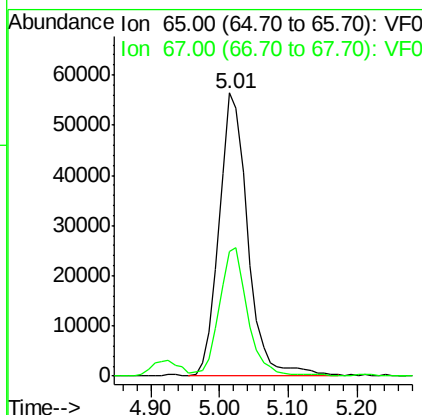
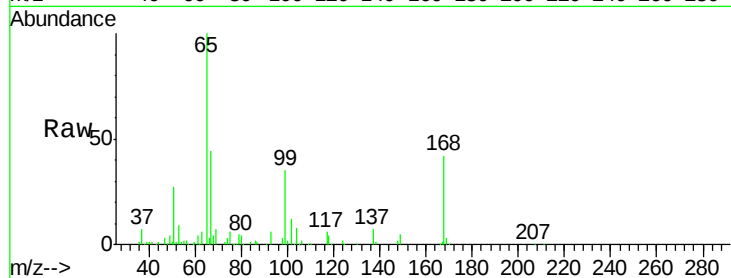




#33
 1,2-Dichloroethane-d4
 Concen: 61.402 ug/l
 RT: 5.01 min Scan# 455
 Delta R.T. -0.00 min
 Lab File: VF059249.D
 Acq: 21 Jun 2018 3:56

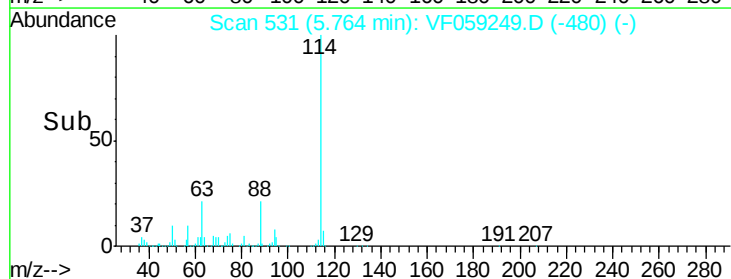
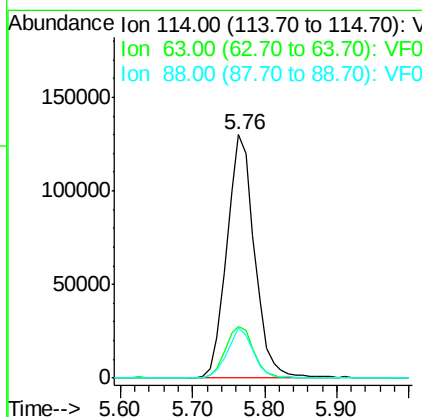
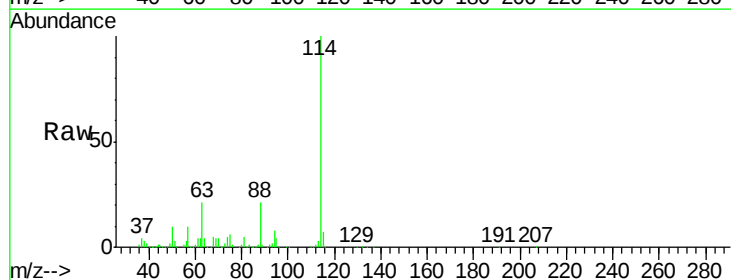
Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion: 65 Resp: 161966
 Ion Ratio Lower Upper
 65 100
 67 43.8 0.0 97.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.76 min Scan# 531
 Delta R.T. -0.00 min
 Lab File: VF059249.D
 Acq: 21 Jun 2018 3:56

Tgt Ion: 114 Resp: 347059
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 41.6
 88 20.7 0.0 38.8





#35

Dibromofluoromethane

Concen: 58.761 ug/l

RT: 4.29 min Scan# 382

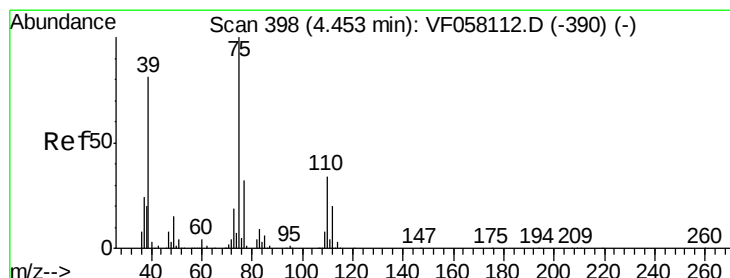
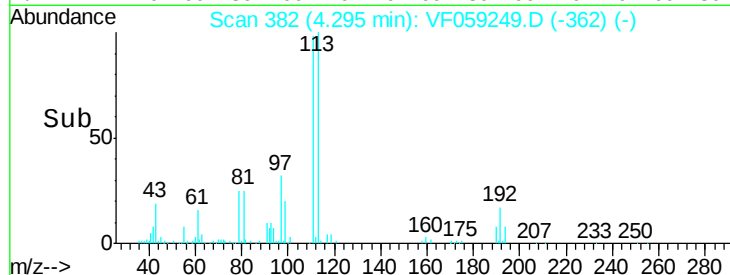
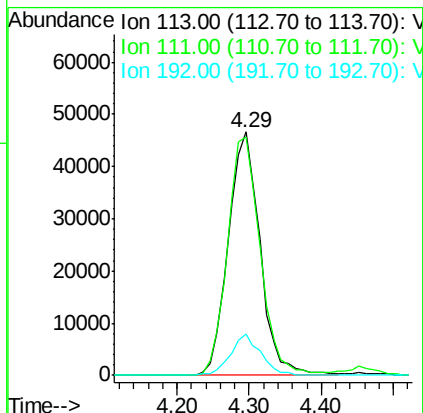
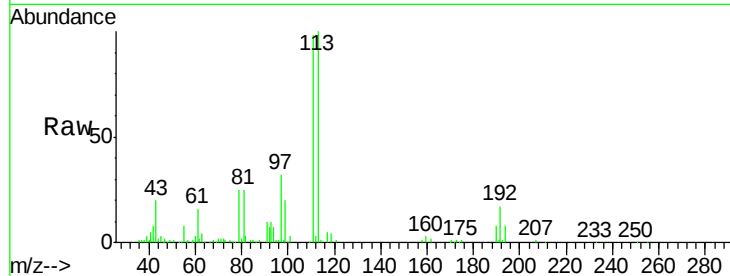
Delta R.T. -0.00 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	113	Resp:	143097
Ion	Ratio	Lower	Upper
113	100		
111	98.2	81.3	121.9
192	17.2	12.7	19.1



#36

1,1-Dichloropropene

Concen: 19.194 ug/l

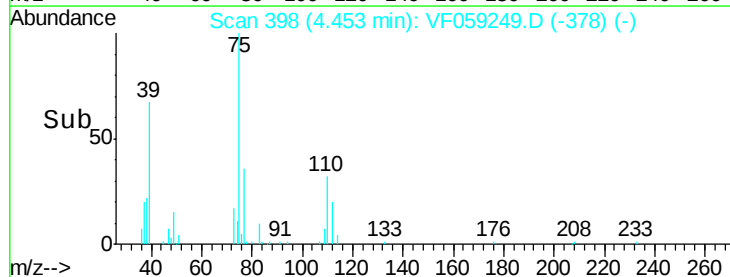
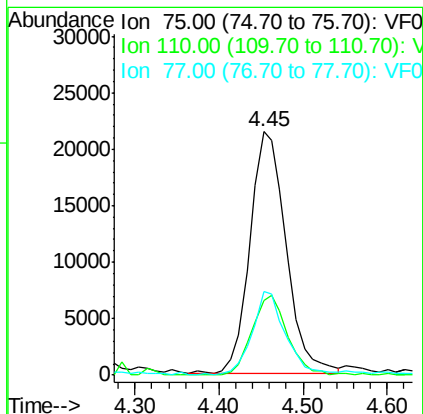
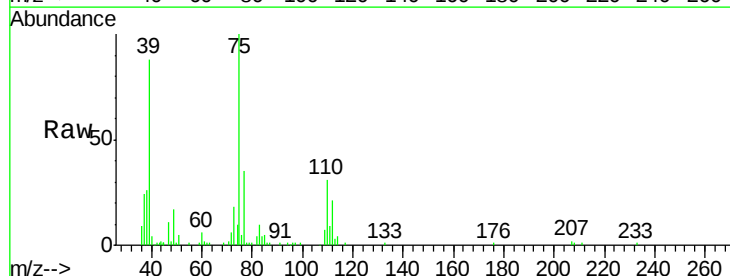
RT: 4.45 min Scan# 398

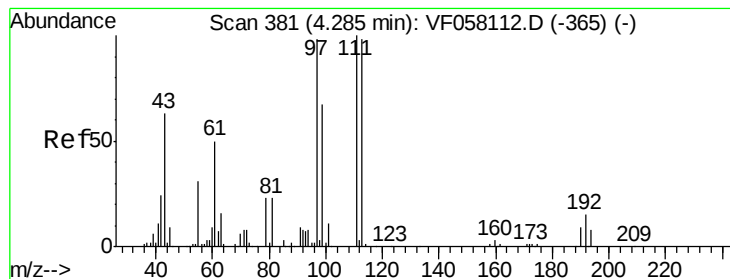
Delta R.T. -0.00 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

Tgt Ion:	75	Resp:	64569
Ion	Ratio	Lower	Upper
75	100		
110	30.8	17.0	50.9
77	34.5	25.3	37.9





#37

Ethyl Acetate

Concen: 20.317 ug/l

RT: 4.29 min Scan# 381

Delta R.T. -0.00 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

Instrument :

MSVOA_F

ClientSampleId :

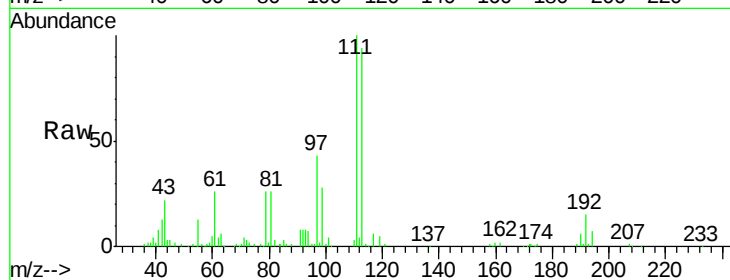
Tot Ion: 43 Resp: 42231

Ion Ratio Lower Upper

43 100

61 114.4 63.0 94.4#

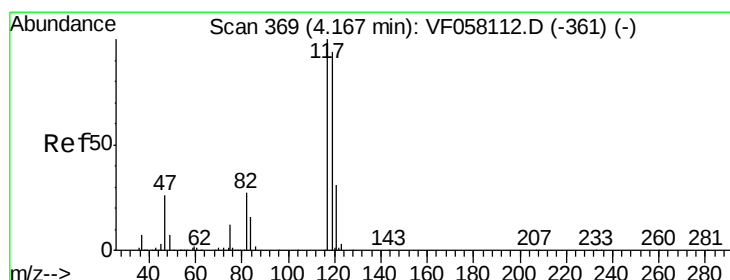
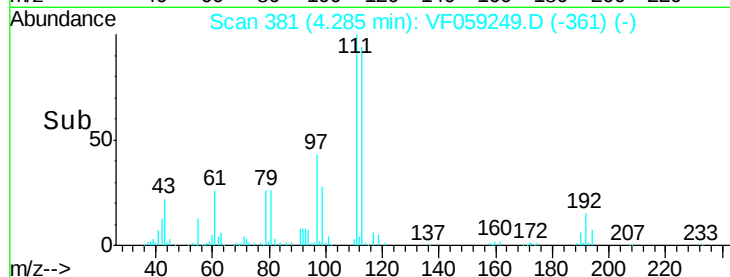
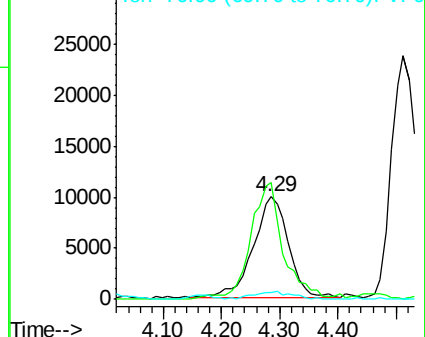
70 6.2 7.5 11.3#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0



#38

Carbon Tetrachloride

Concen: 24.564 ug/l

RT: 4.17 min Scan# 369

Delta R.T. -0.00 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

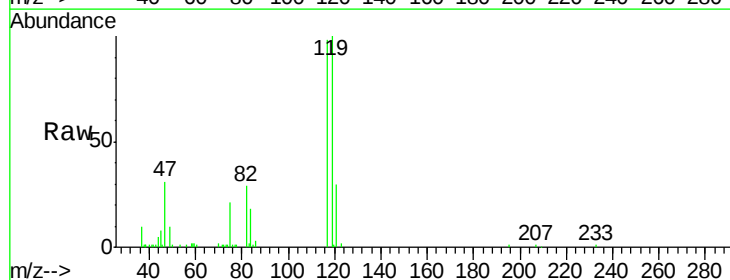
Tgt Ion: 117 Resp: 89556

Ion Ratio Lower Upper

117 100

119 102.4 75.7 113.5

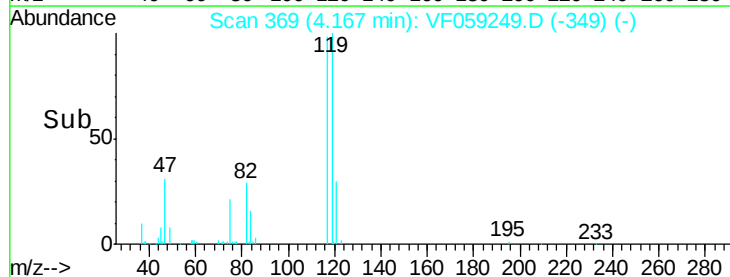
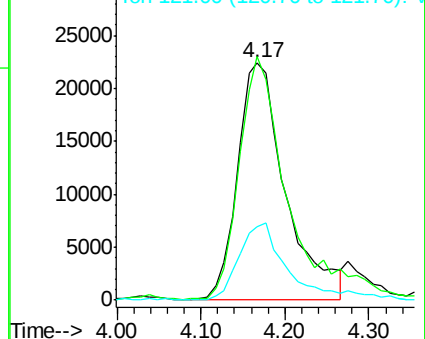
121 30.8 24.8 37.2

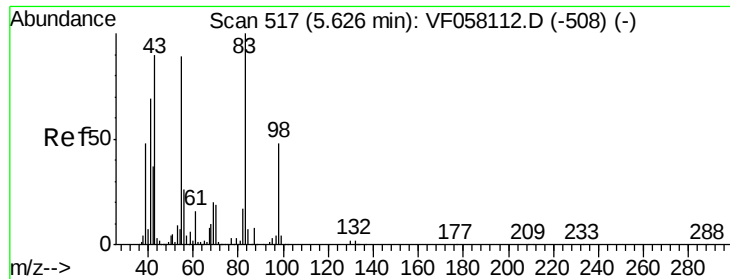


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

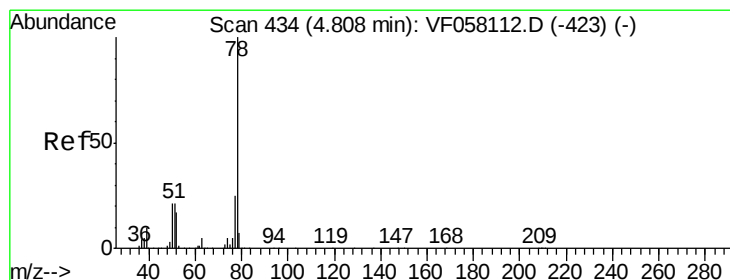
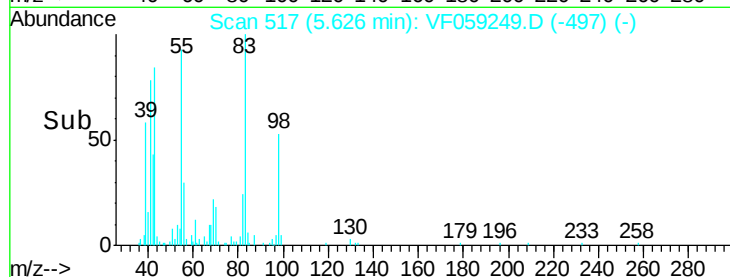
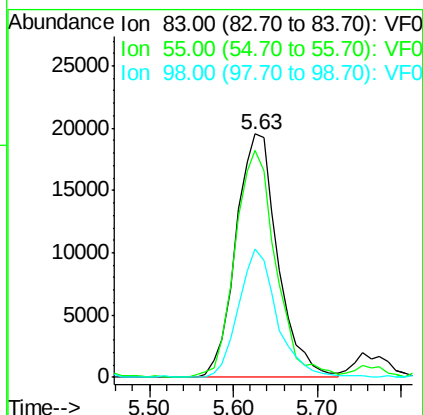
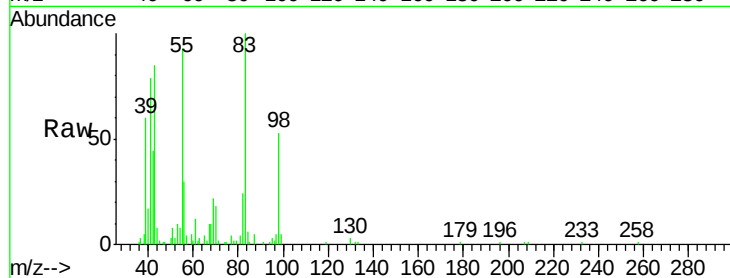




#39
Methvlcvclohexane
Concen: 19.745 ug/l
RT: 5.63 min Scan# 517
Delta R.T. -0.00 min
Lab File: VF059249.D
Acq: 21 Jun 2018 3:56

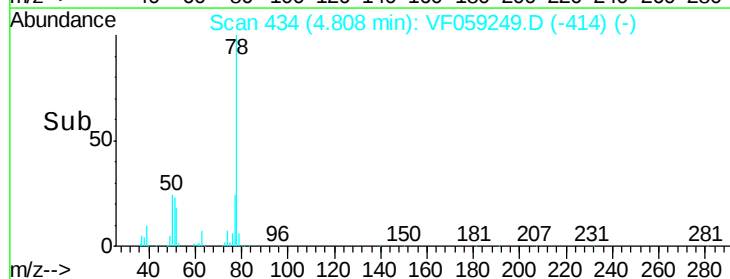
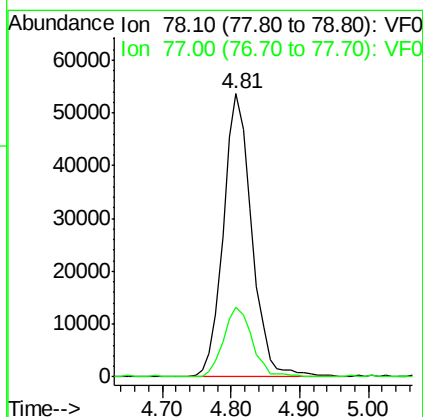
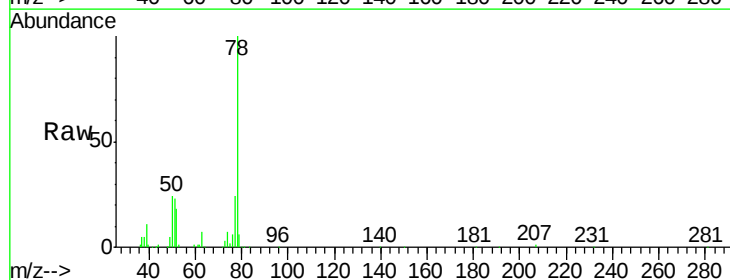
Instrument :
MSVOA_F
ClientSampleId :

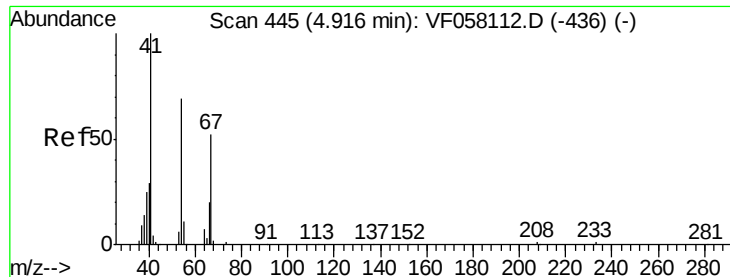
Tot Ion: 83 Resp: 67707
Ion Ratio Lower Upper
83 100
55 93.3 71.0 106.4
98 52.9 38.1 57.1



#40
Benzene
Concen: 19.684 ug/l
RT: 4.81 min Scan# 434
Delta R.T. -0.00 min
Lab File: VF059249.D
Acq: 21 Jun 2018 3:56

Tgt Ion: 78 Resp: 153700
Ion Ratio Lower Upper
78 100
77 24.4 20.2 30.2





#41

Methacrylonitrile

Concen: 20.143 ug/l

RT: 4.92 min Scan# 445

Delta R.T. -0.00 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 41 Resp: 20570

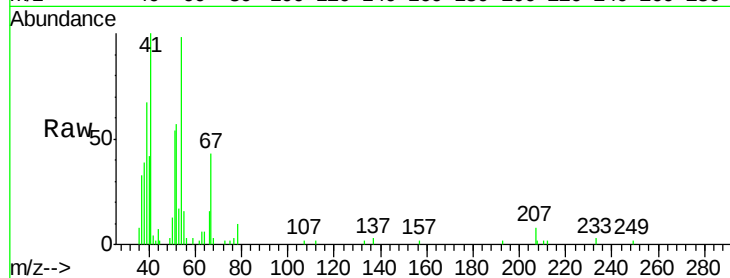
Ion Ratio Lower Upper

41 100

39 67.2 53.0 79.4

67 43.2 41.0 61.6

52 56.7 36.8 55.2#

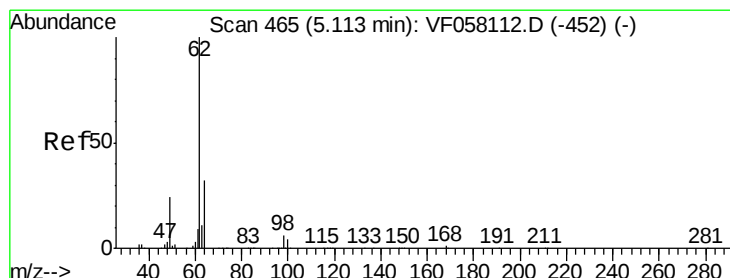
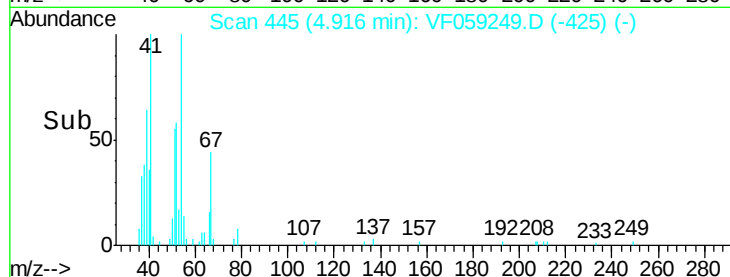
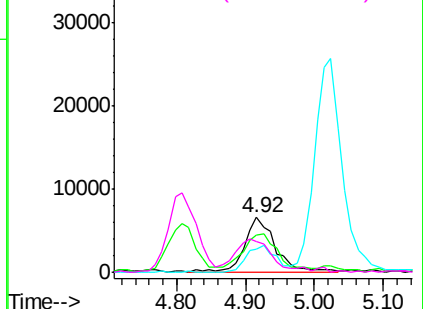


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 25.740 ug/l

RT: 5.12 min Scan# 466

Delta R.T. 0.01 min

Lab File: VF059249.D

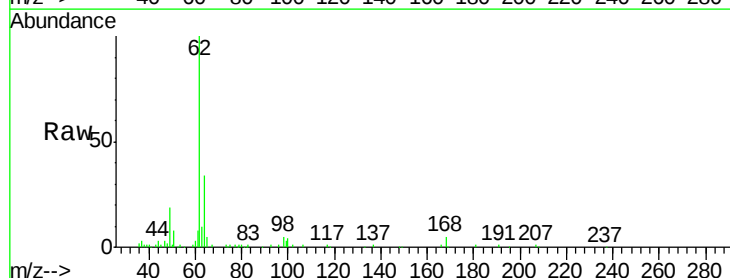
Acq: 21 Jun 2018 3:56

Tgt Ion: 62 Resp: 90140

Ion Ratio Lower Upper

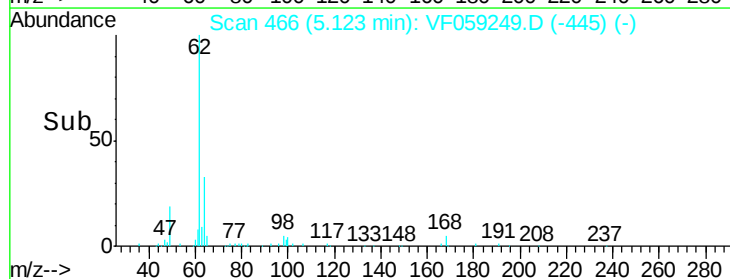
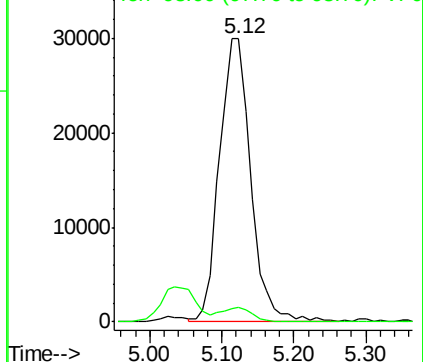
62 100

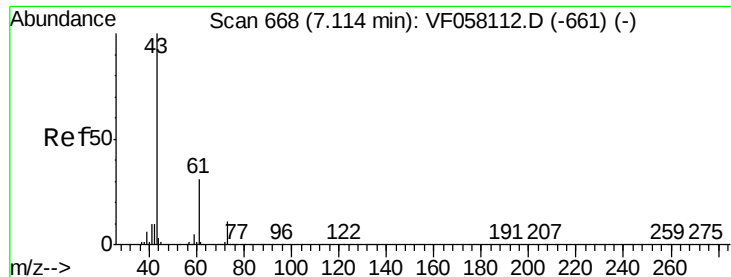
98 5.3 0.0 11.8



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#43

Isopropyl Acetate

Concen: 17.935 ug/l

RT: 7.11 min Scan# 668

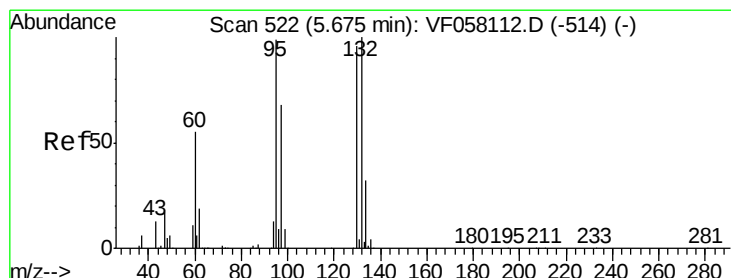
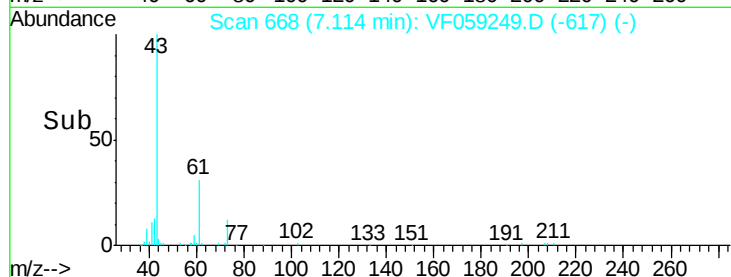
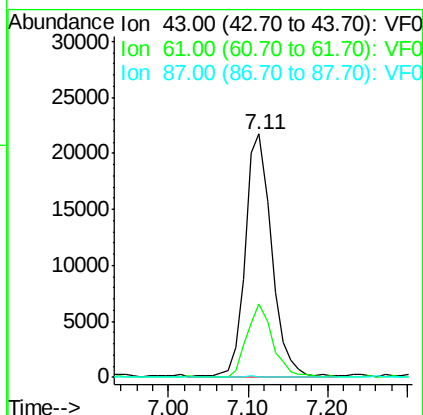
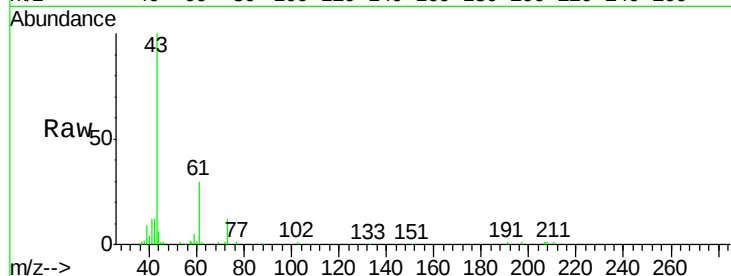
Delta R.T. -0.00 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	43	Resp:	49927
Ion	Ratio	Lower	Upper
43	100		
61	30.4	25.1	37.7
87	0.0	0.2	0.4#



#44

Trichloroethene

Concen: 21.658 ug/l

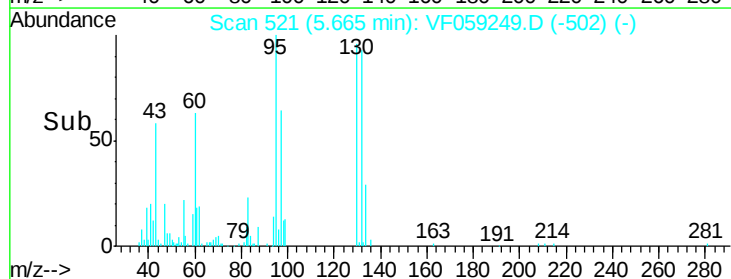
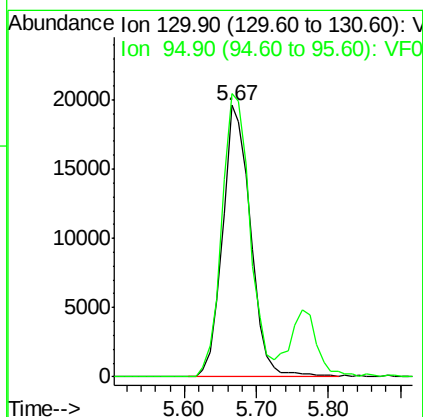
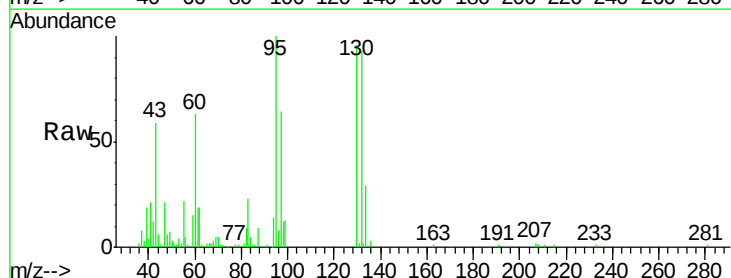
RT: 5.67 min Scan# 521

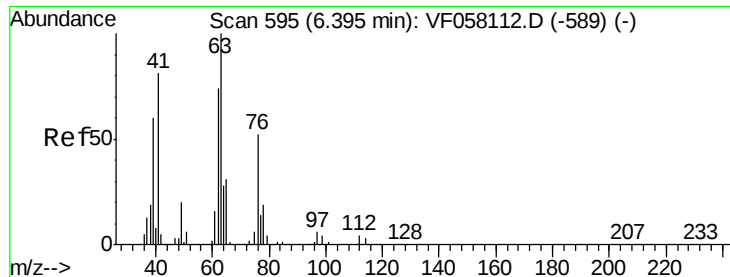
Delta R.T. -0.01 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

Tgt Ion:	130	Resp:	52841
Ion	Ratio	Lower	Upper
130	100		
95	104.2	0.0	206.8





#45

1,2-Dichloropropane

Concen: 19.177 ug/l

RT: 6.40 min Scan# 596

Delta R.T. 0.01 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

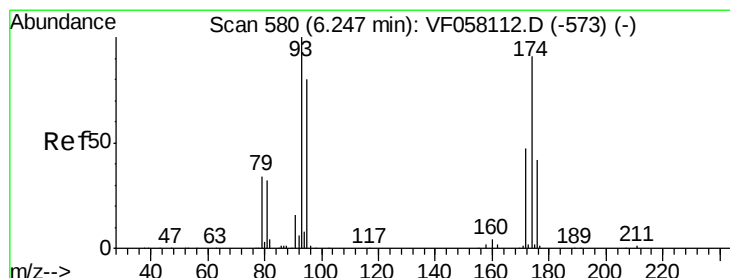
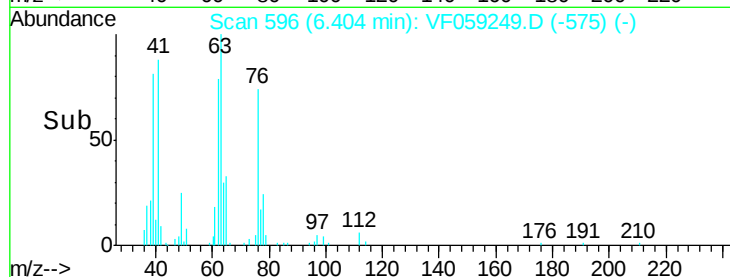
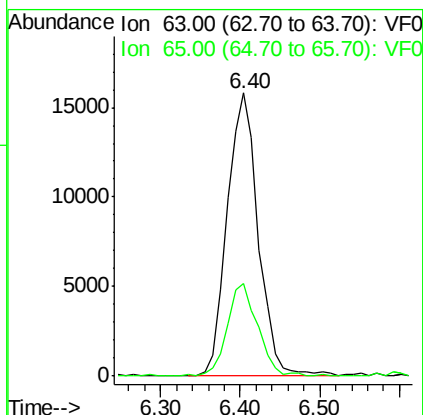
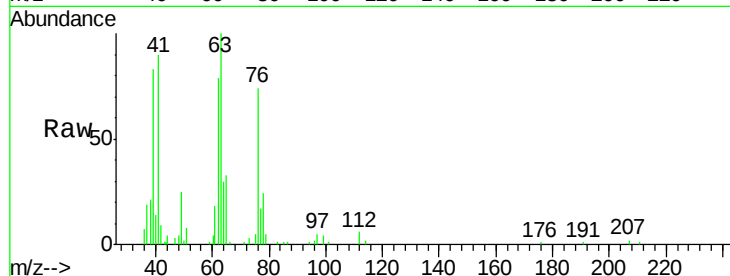
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 63 Resp: 43174

Ion Ratio Lower Upper

63 100

65 32.8 24.6 37.0



#46

Dibromomethane

Concen: 22.398 ug/l

RT: 6.26 min Scan# 581

Delta R.T. 0.01 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

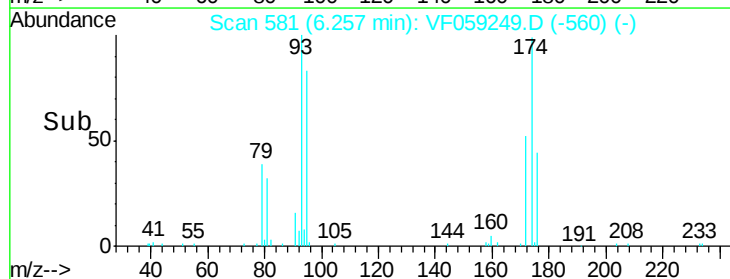
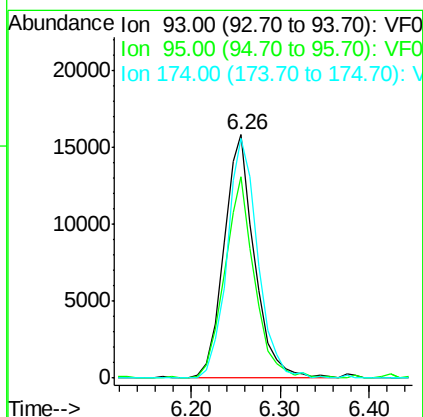
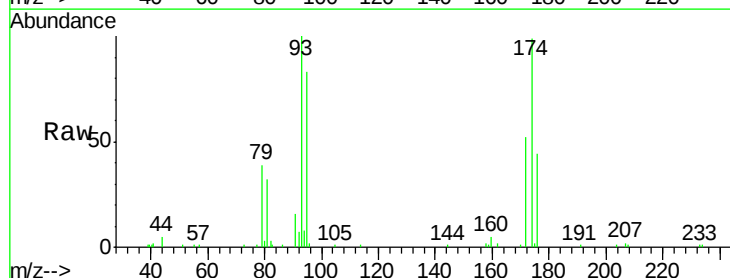
Tgt Ion: 93 Resp: 37941

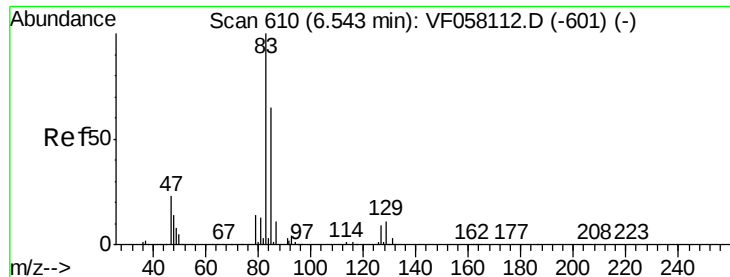
Ion Ratio Lower Upper

93 100

95 82.8 64.2 96.4

174 98.7 72.7 109.1





#47

Bromodichloromethane

Concen: 24.029 ug/l

RT: 6.55 min Scan# 611

Delta R.T. 0.01 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

Instrument :
MSVOA_F
ClientSampled :

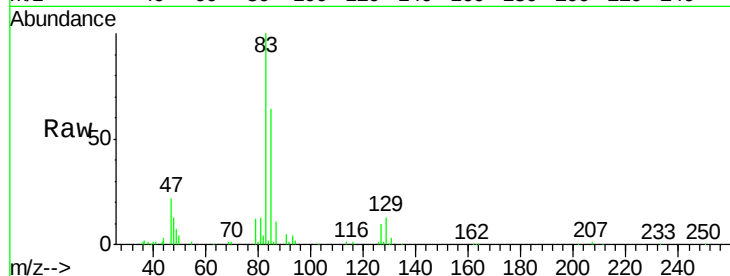
Tot Ion: 83 Resp: 92597

Ion Ratio Lower Upper

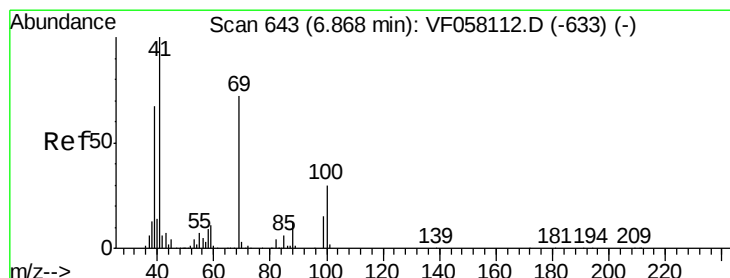
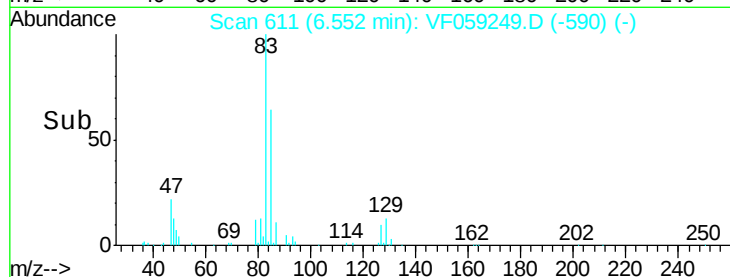
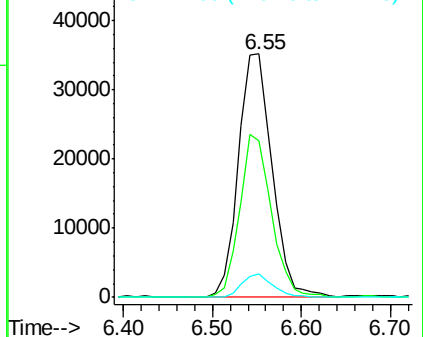
83 100

85 64.1 51.6 77.4

127 9.8 7.2 10.8



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



#48

Methyl methacrylate

Concen: 18.680 ug/l

RT: 6.88 min Scan# 644

Delta R.T. 0.01 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

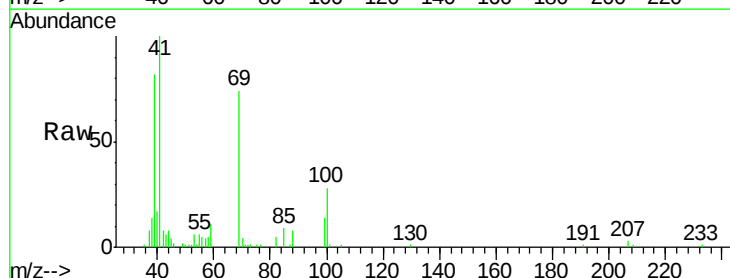
Tgt Ion: 41 Resp: 32056

Ion Ratio Lower Upper

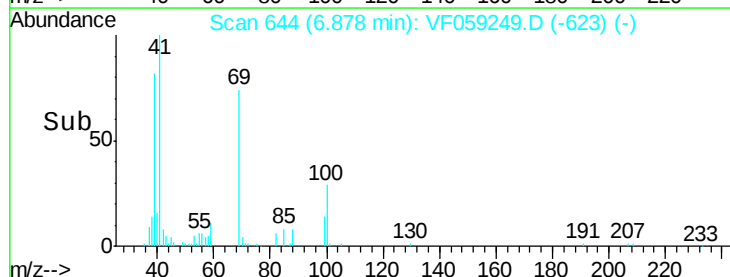
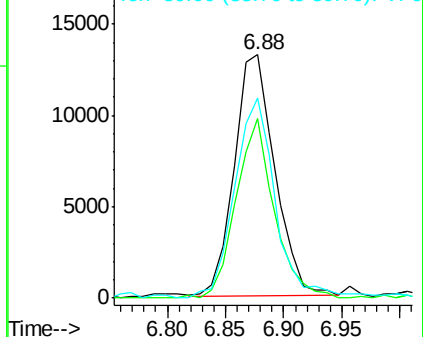
41 100

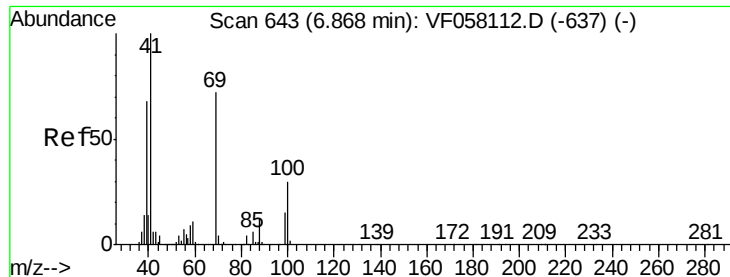
69 73.6 57.2 85.8

39 82.3 54.3 81.5#



Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 328.199 ug/l

RT: 6.89 min Scan# 645

Delta R.T. 0.02 min

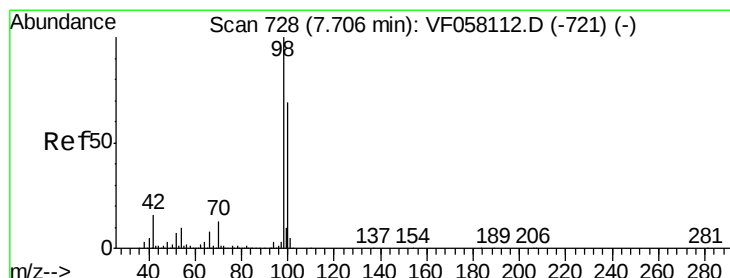
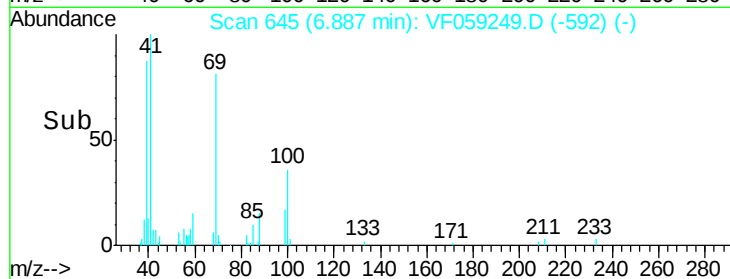
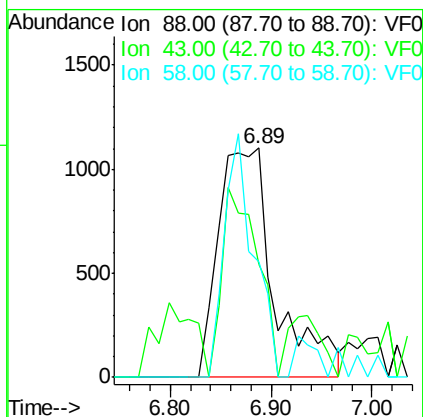
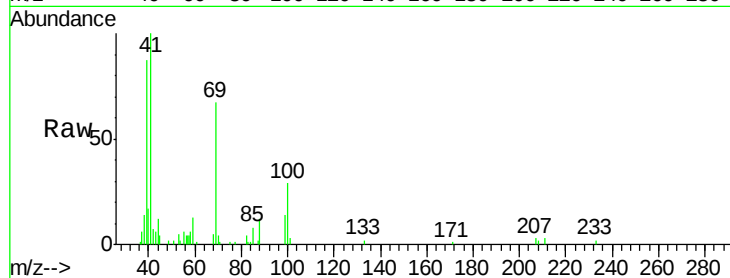
Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 88 Resp: 4296

Ion	Ratio	Lower	Upper
88	100		
43	49.5	47.8	71.8
58	50.3	59.4	89.0#



#50

Toluene-d8

Concen: 47.478 ug/l

RT: 7.71 min Scan# 728

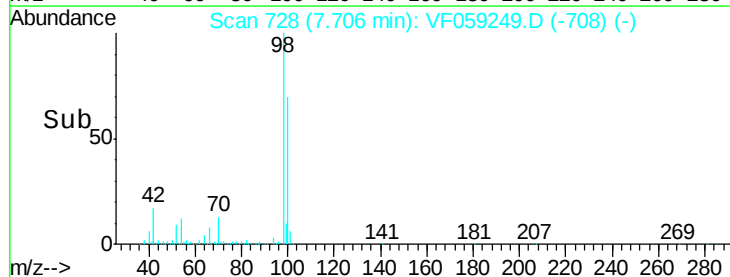
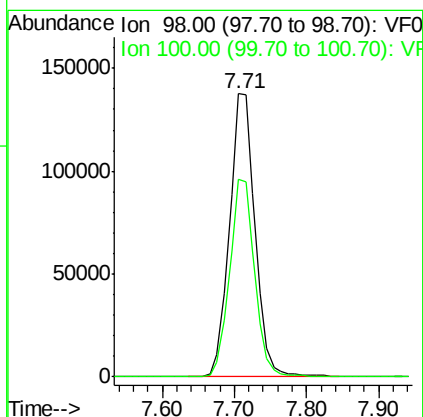
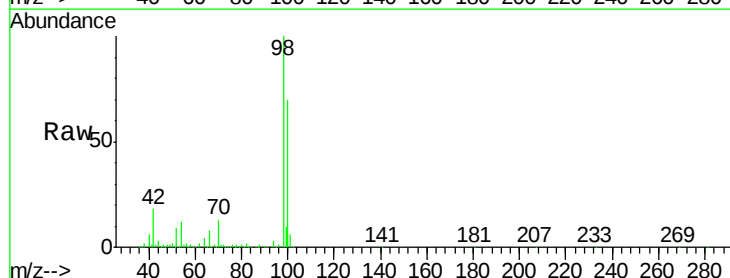
Delta R.T. -0.00 min

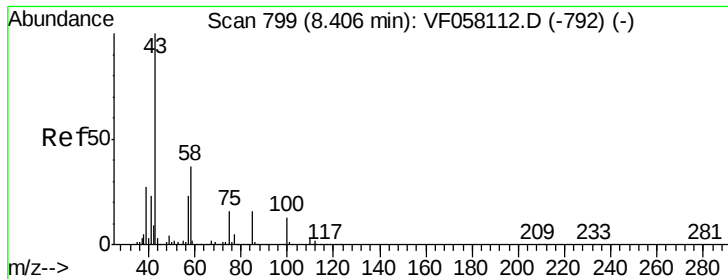
Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

Tgt Ion: 98 Resp: 339664

Ion	Ratio	Lower	Upper
98	100		
100	69.7	55.6	83.4





#51

4-Methyl-2-Pentanone

Concen: 98.641 ug/l

RT: 8.41 min Scan# 799

Delta R.T. -0.00 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

Instrument :

MSVOA_F

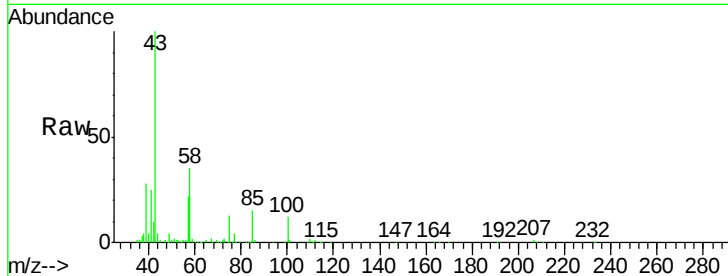
ClientSampleId :

Tot Ion: 43 Resp: 188204

Ion Ratio Lower Upper

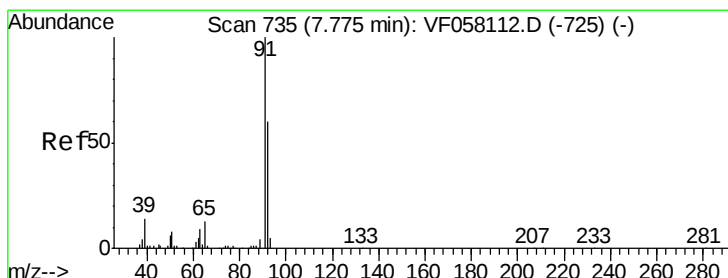
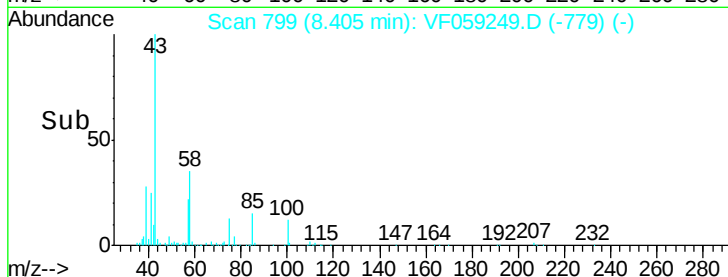
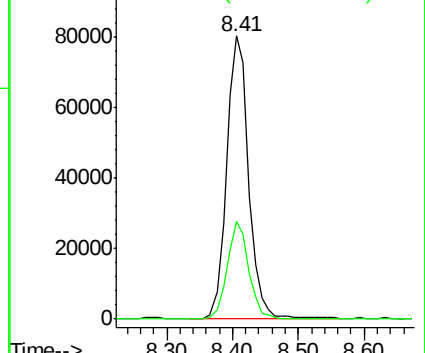
43 100

58 34.6 29.4 44.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 21.093 ug/l

RT: 7.77 min Scan# 735

Delta R.T. -0.00 min

Lab File: VF059249.D

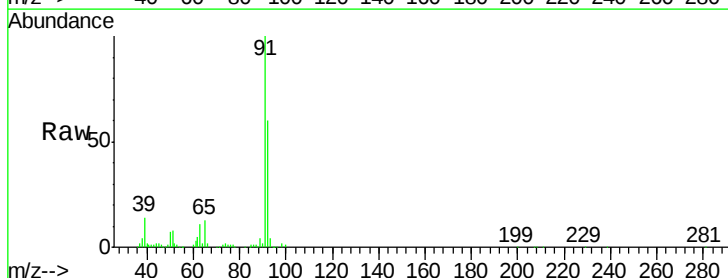
Acq: 21 Jun 2018 3:56

Tgt Ion: 92 Resp: 118626

Ion Ratio Lower Upper

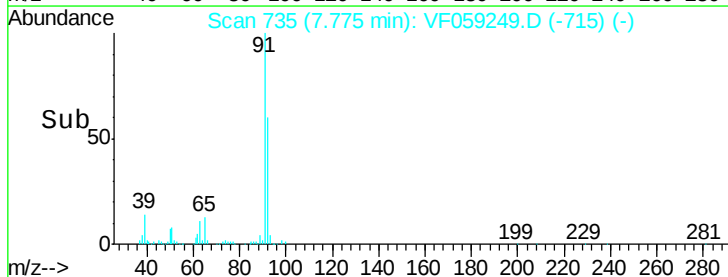
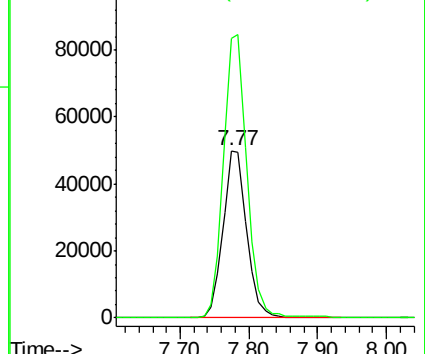
92 100

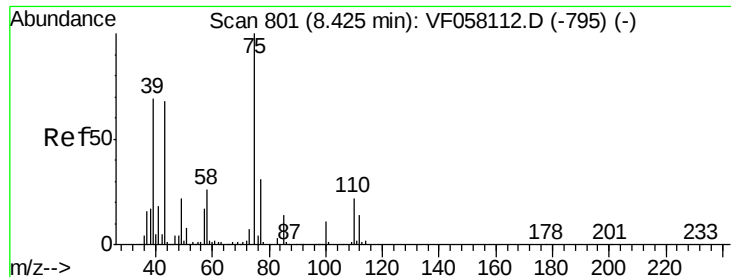
91 167.6 132.9 199.3



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: 20.268 ug/l

RT: 8.43 min Scan# 801

Delta R.T. -0.00 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

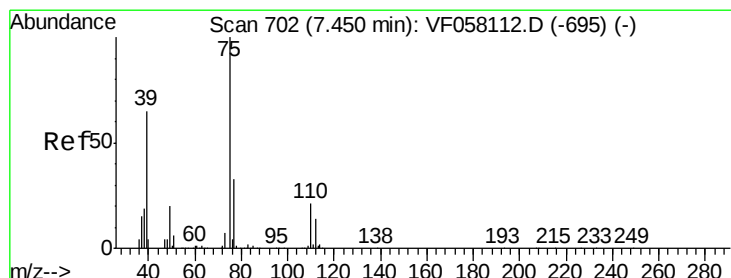
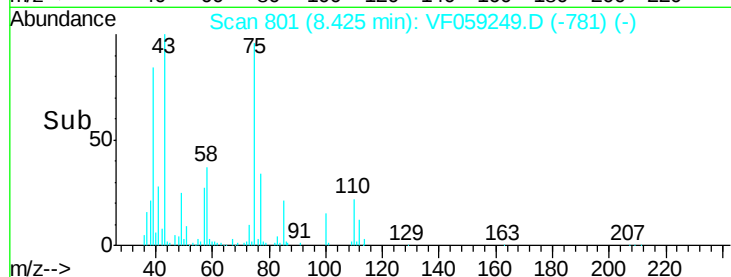
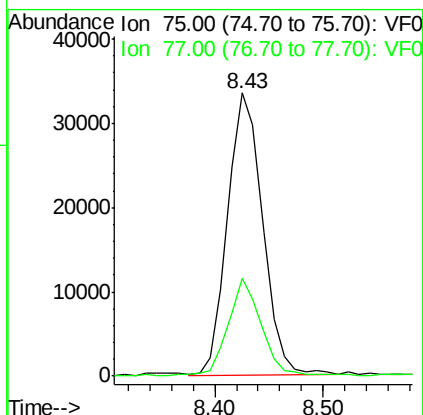
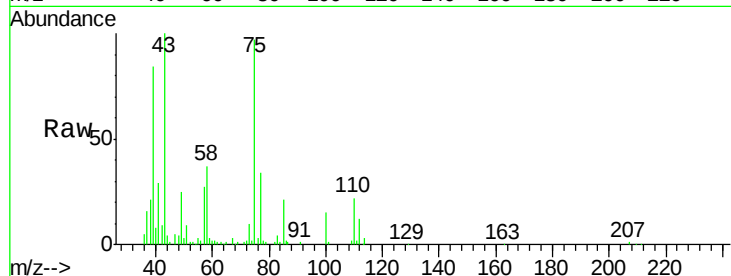
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 75 Resp: 75640

Ion Ratio Lower Upper

75 100

77 34.8 25.1 37.7



#54

cis-1,3-Dichloropropene

Concen: 20.396 ug/l

RT: 7.46 min Scan# 703

Delta R.T. 0.01 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

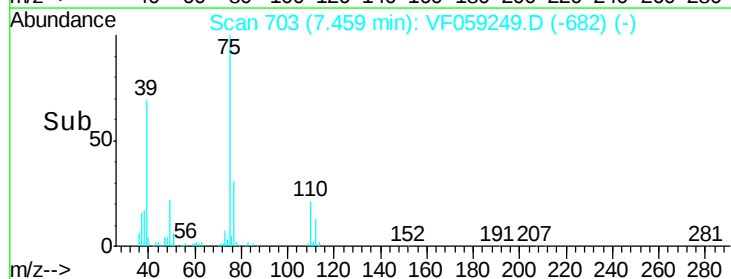
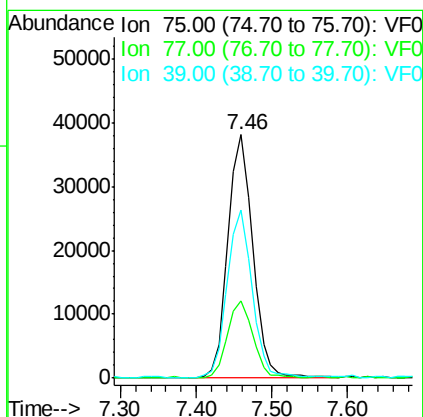
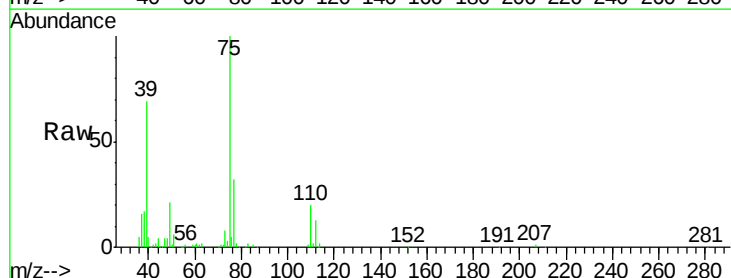
Tgt Ion: 75 Resp: 87439

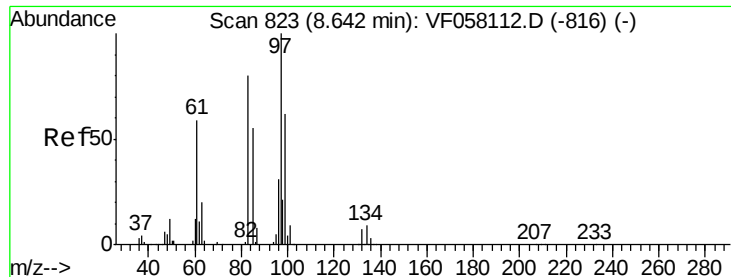
Ion Ratio Lower Upper

75 100

77 31.7 26.3 39.5

39 69.2 52.1 78.1





#55

1,1,2-Trichloroethane

Concen: 21.477 ug/l

RT: 8.64 min Scan# 823

Delta R.T. -0.00 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 97 Resp: 43771

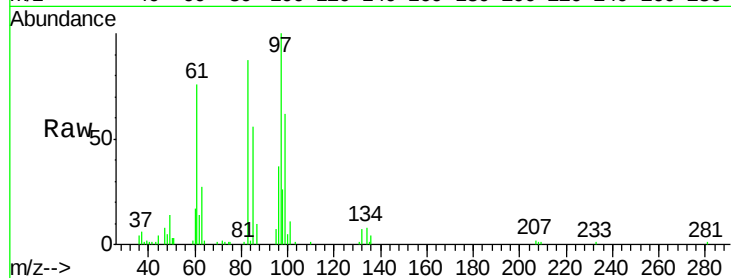
Ion	Ratio	Lower	Upper
97	100		
83	87.2	64.3	96.5
85	56.0	43.8	65.8
99	61.6	49.8	74.8

97 100

83 87.2 64.3 96.5

85 56.0 43.8 65.8

99 61.6 49.8 74.8

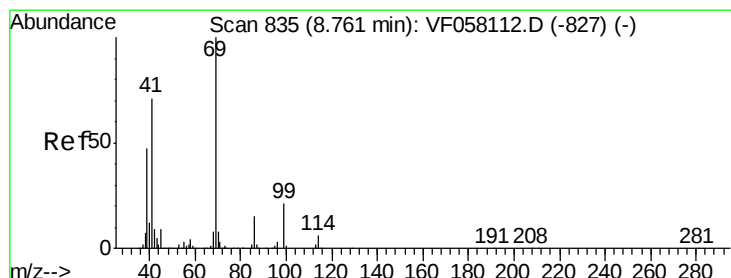
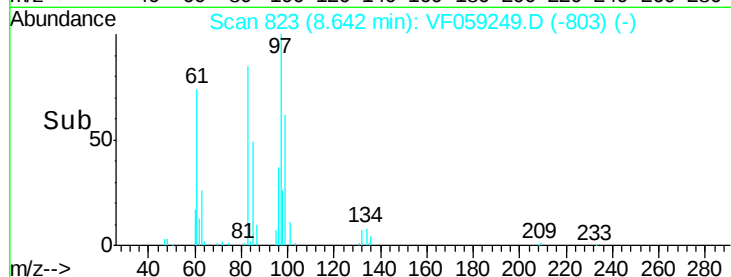
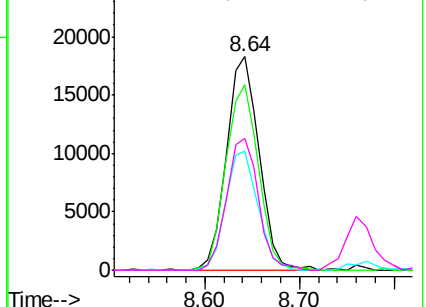


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 18.296 ug/l

RT: 8.76 min Scan# 835

Delta R.T. -0.00 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

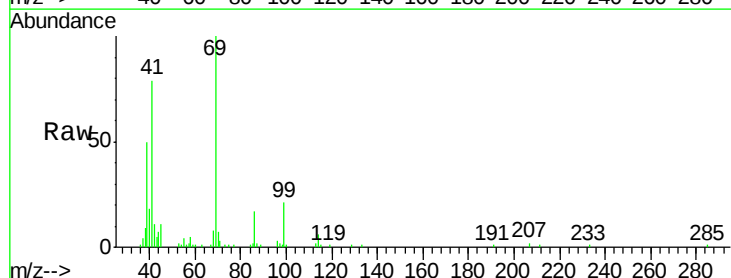
Tgt Ion: 69 Resp: 47001

Ion	Ratio	Lower	Upper
69	100		
41	79.0	56.9	85.3
39	50.2	38.0	57.0

69 100

41 79.0 56.9 85.3

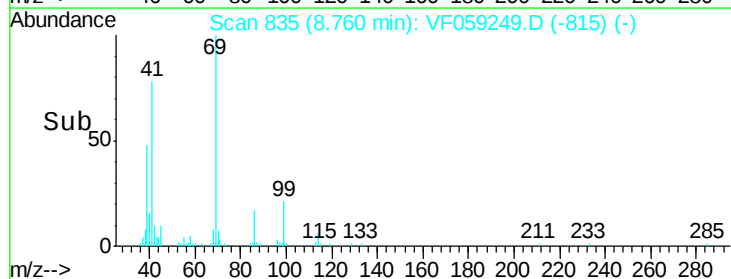
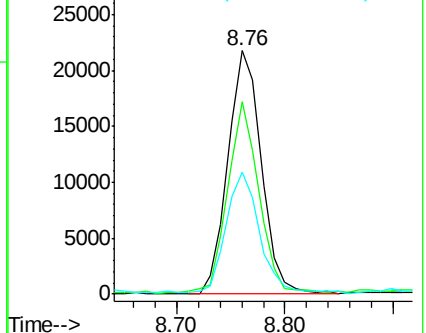
39 50.2 38.0 57.0

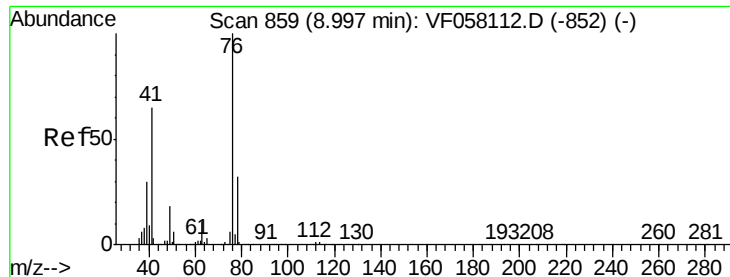


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 21.533 ug/l

RT: 9.00 min Scan# 859

Delta R.T. -0.00 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

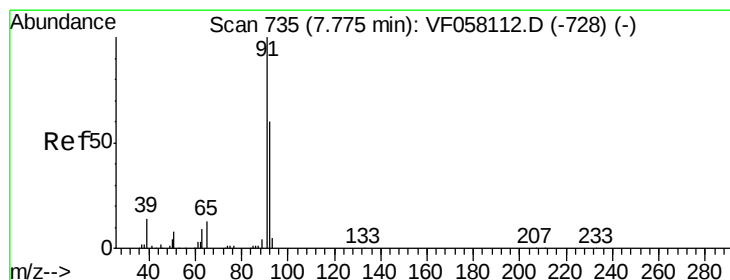
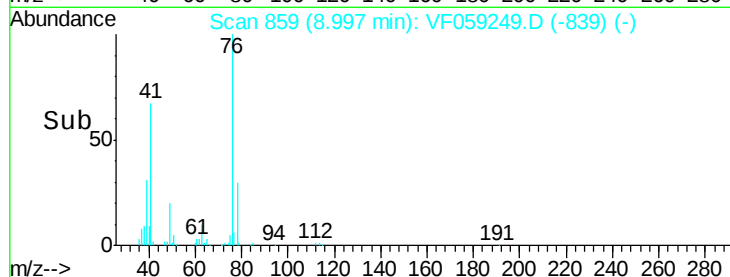
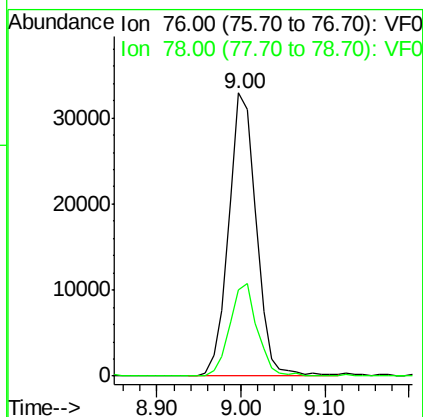
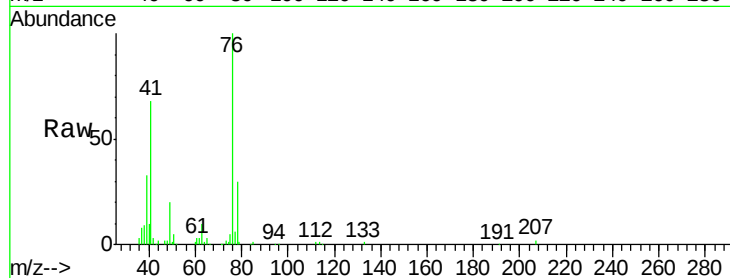
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 76 Resp: 75069

Ion Ratio Lower Upper

76 100

78 30.3 25.8 38.6



#58

2-Chloroethyl Vinyl ether

Concen: 111.832 ug/l

RT: 7.77 min Scan# 735

Delta R.T. -0.00 min

Lab File: VF059249.D

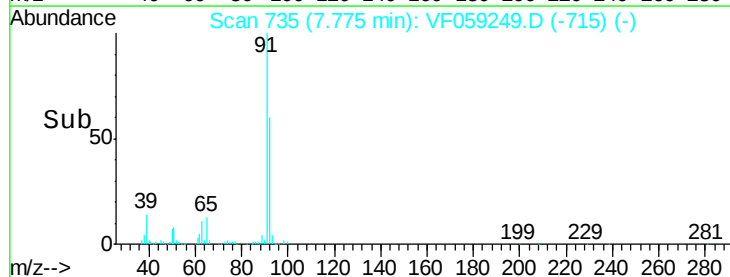
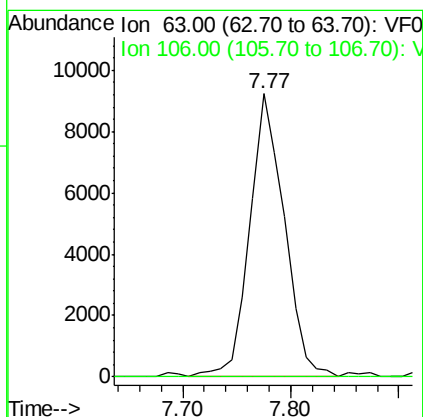
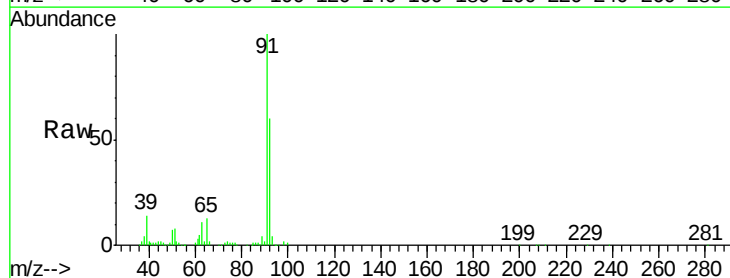
Acq: 21 Jun 2018 3:56

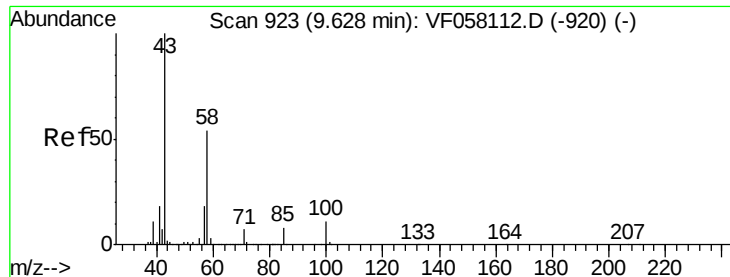
Tgt Ion: 63 Resp: 20542

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

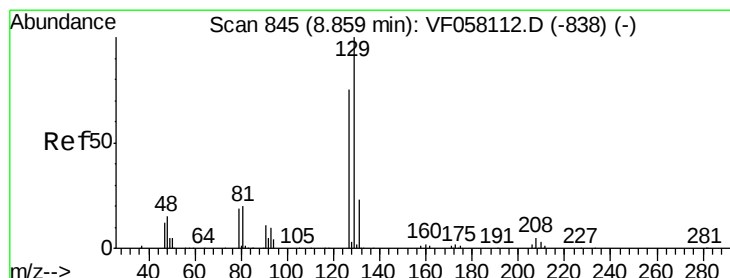
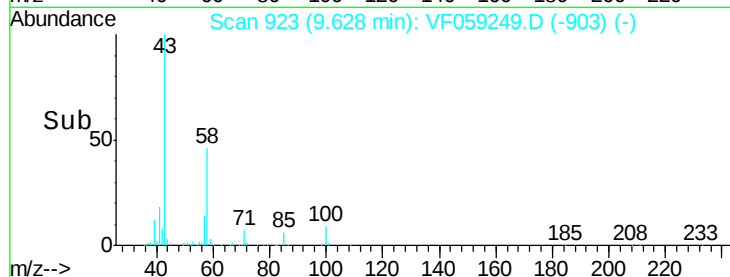
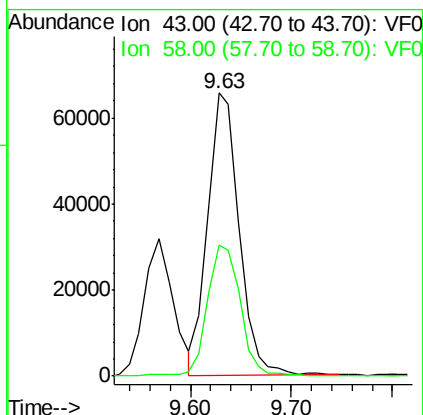
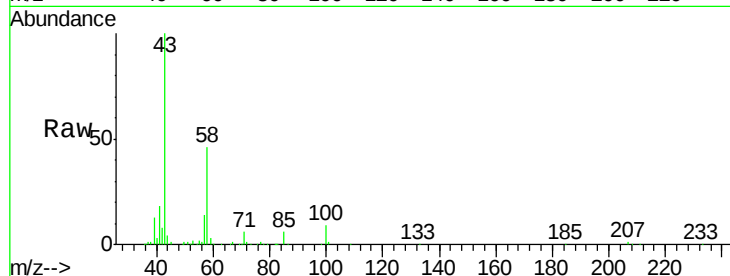




#59
2-Hexanone
Concen: 94.747 ug/l
RT: 9.63 min Scan# 923
Delta R.T. -0.00 min
Lab File: VF059249.D
Acq: 21 Jun 2018 3:56

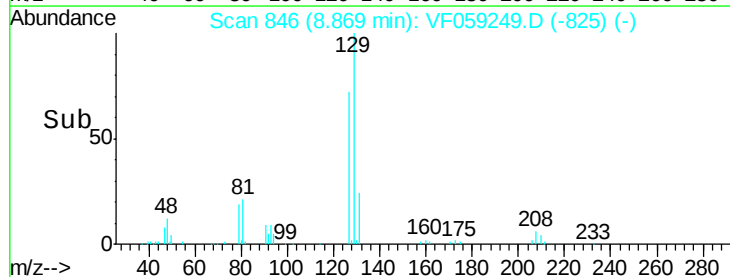
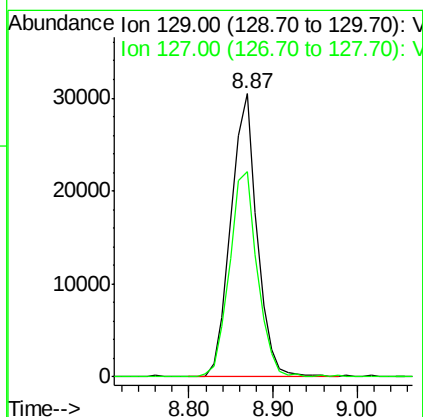
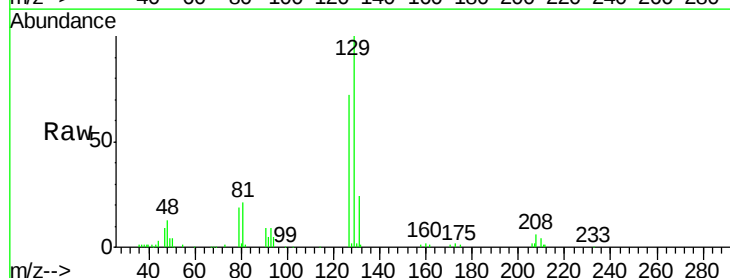
Instrument :
MSVOA_F
ClientSampleId :

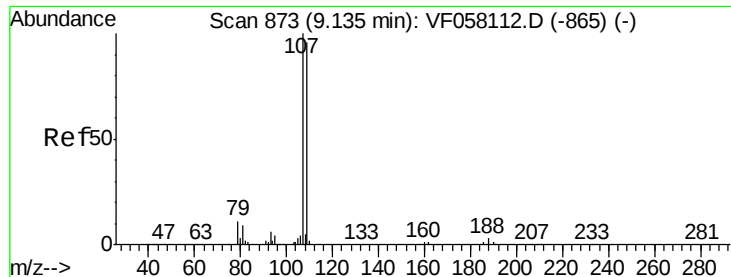
Tot Ion: 43 Resp: 142992
Ion Ratio Lower Upper
43 100
58 46.2 26.3 78.8



#60
Dibromochloromethane
Concen: 22.576 ug/l
RT: 8.87 min Scan# 846
Delta R.T. 0.01 min
Lab File: VF059249.D
Acq: 21 Jun 2018 3:56

Tgt Ion: 129 Resp: 66118
Ion Ratio Lower Upper
129 100
127 72.4 37.6 112.9





#61

1,2-Dibromoethane

Concen: 22.203 ug/l

RT: 9.13 min Scan# 873

Delta R.T. -0.00 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

Instrument :

MSVOA_F

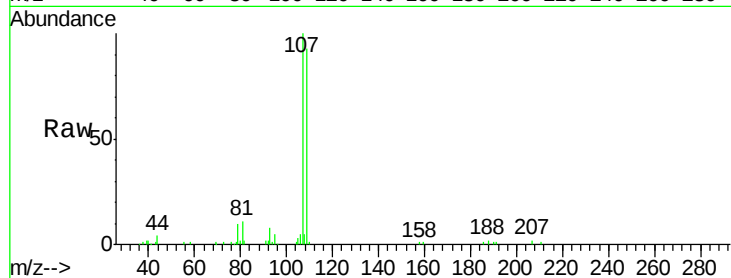
ClientSampled :

Tot Ion:107 Resp: 52579

Ion Ratio Lower Upper

107 100

109 92.9 76.6 115.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

9.13

25000

20000

15000

10000

5000

0

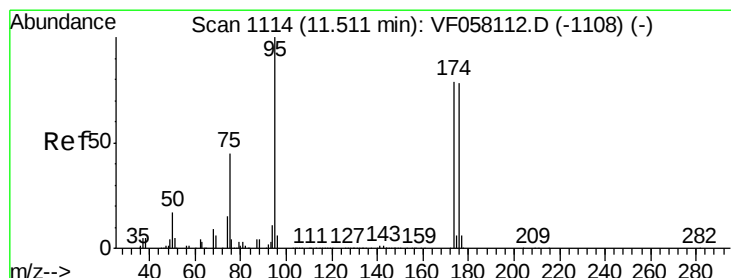
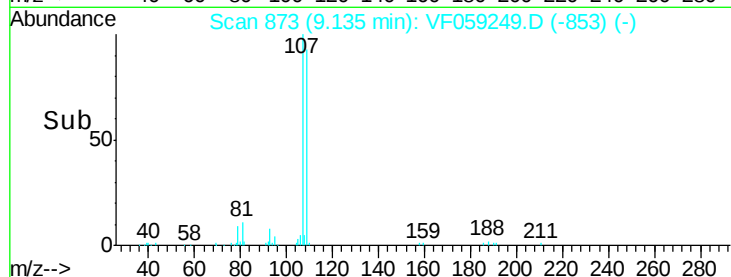
Time-->

9.00

9.10

9.20

9.30



#62

4-Bromofluorobenzene

Concen: 53.614 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. -0.00 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

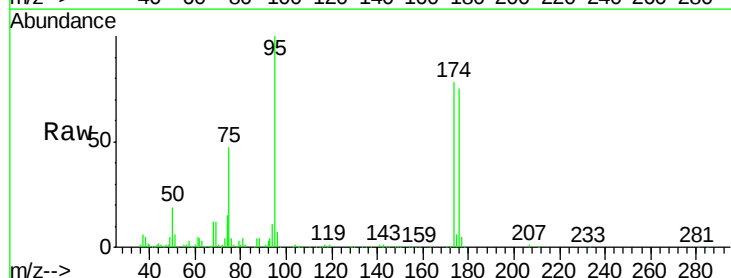
Tgt Ion: 95 Resp: 196732

Ion Ratio Lower Upper

95 100

174 77.6 0.0 157.8

176 74.9 0.0 155.8



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

150000

100000

50000

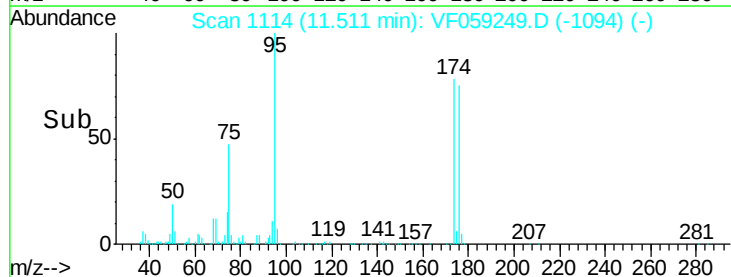
0

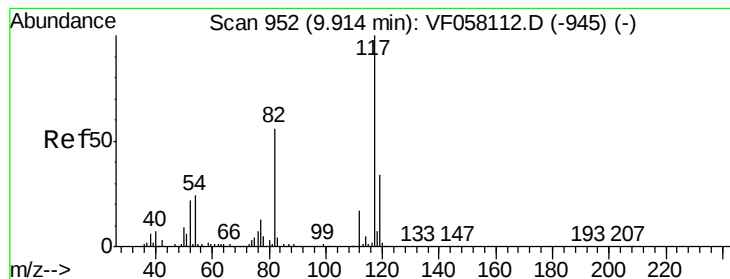
Time-->

11.40

11.50

11.60





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.92 min Scan# 953

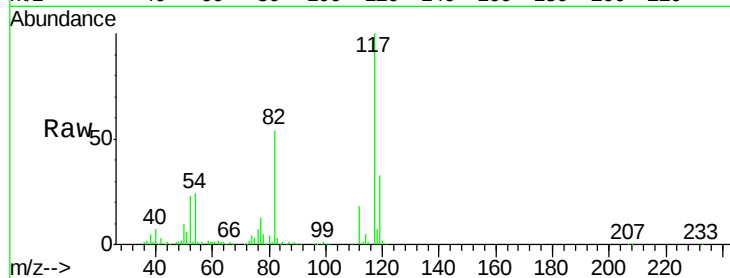
Delta R.T. 0.01 min

Lab File: VF059249.D

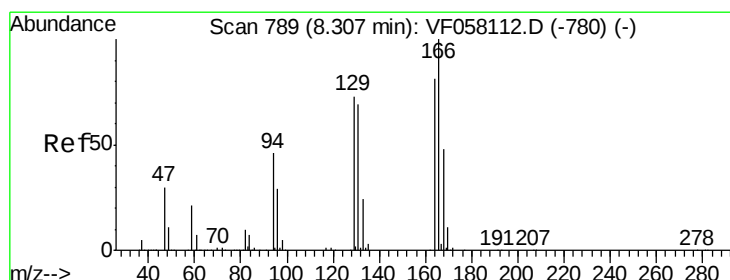
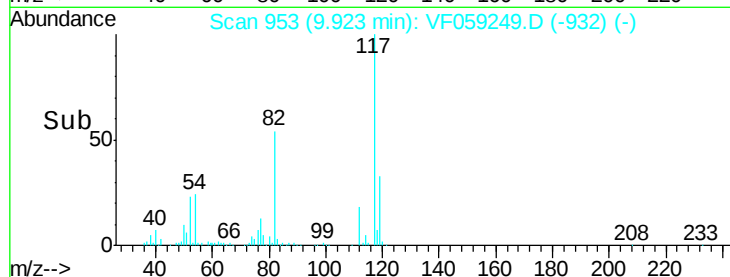
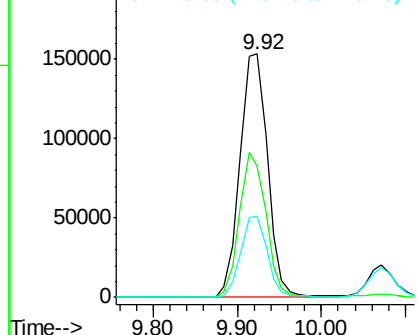
Acq: 21 Jun 2018 3:56

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:117	Resp:	354367
Ion Ratio	Lower	Upper
117 100		
82 53.9	45.2	67.8
119 33.3	27.5	41.3



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



#64

Tetrachloroethene

Concen: 21.826 ug/l

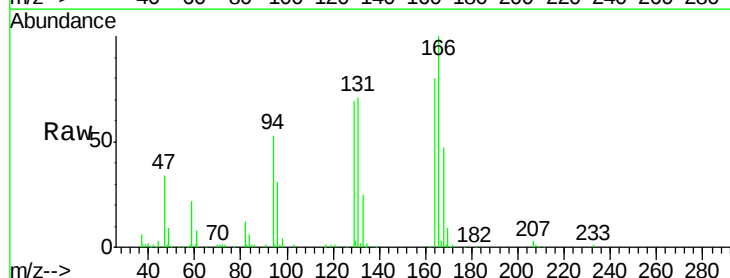
RT: 8.31 min Scan# 789

Delta R.T. -0.00 min

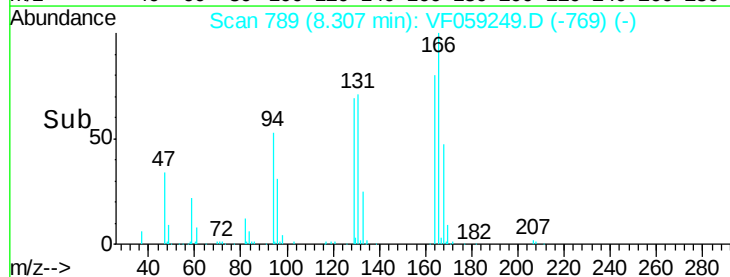
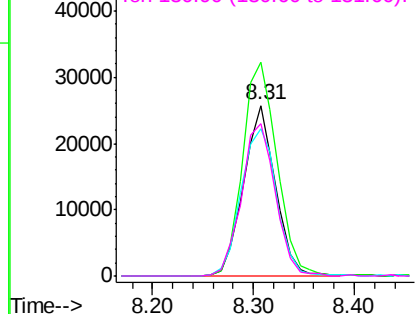
Lab File: VF059249.D

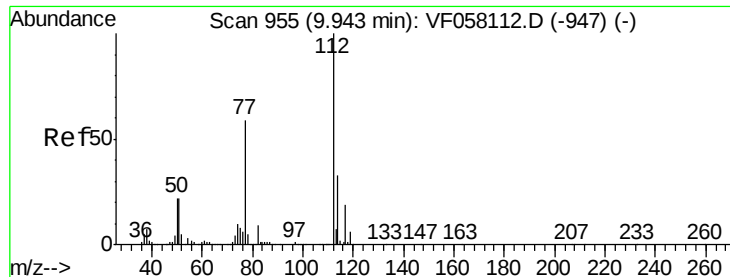
Acq: 21 Jun 2018 3:56

Tgt Ion:164	Resp:	56729
Ion Ratio	Lower	Upper
164 100		
166 125.1	98.2	147.4
129 86.2	71.6	107.4
131 89.2	67.8	101.6



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

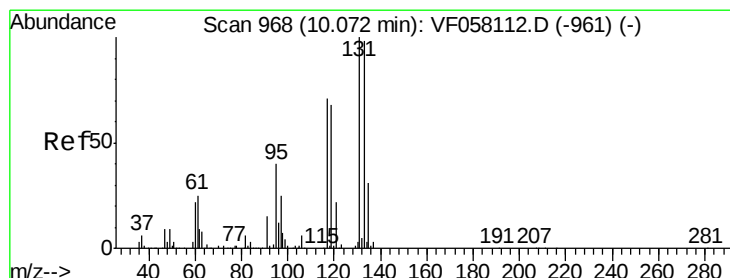
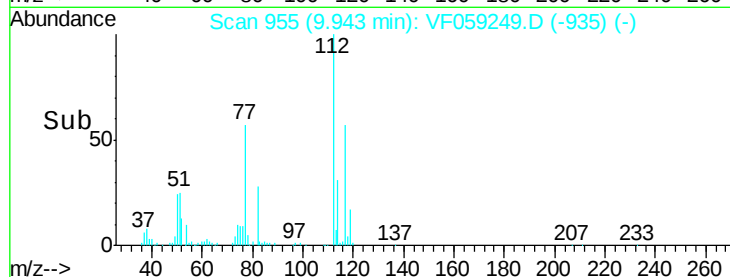
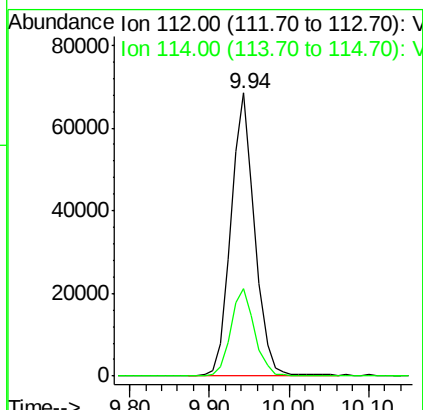
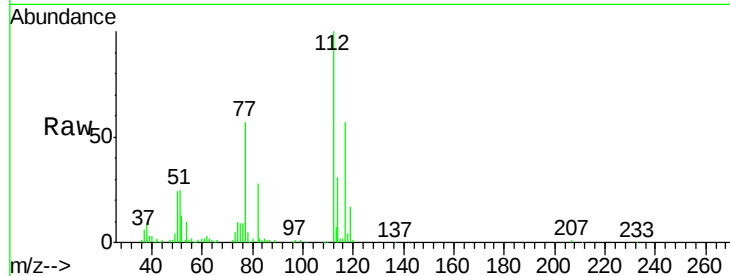




#65
Chlorobenzene
Concen: 20.446 ug/l
RT: 9.94 min Scan# 955
Delta R.T. -0.00 min
Lab File: VF059249.D
Acq: 21 Jun 2018 3:56

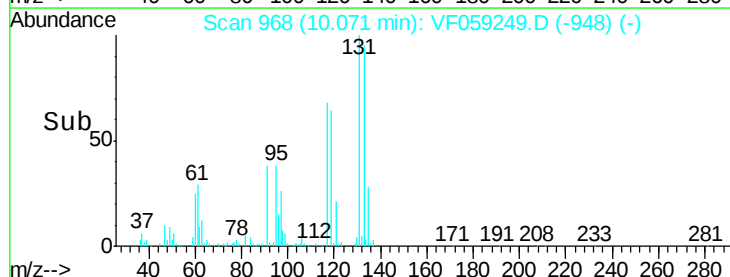
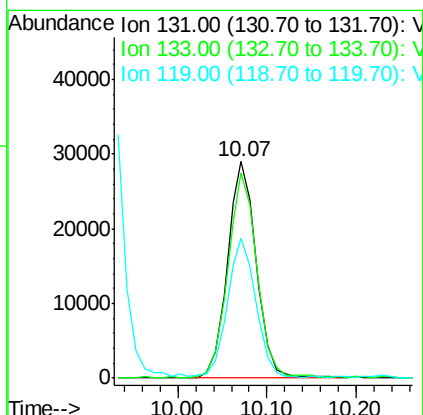
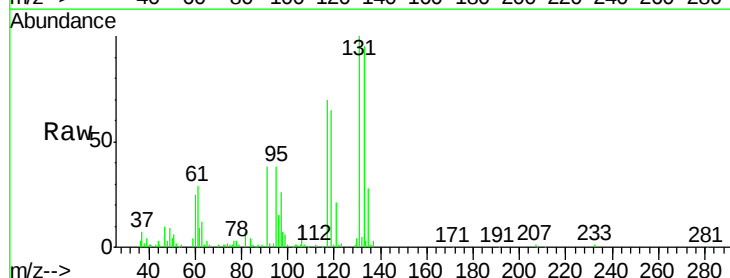
Instrument :
MSVOA_F
ClientSampleId :

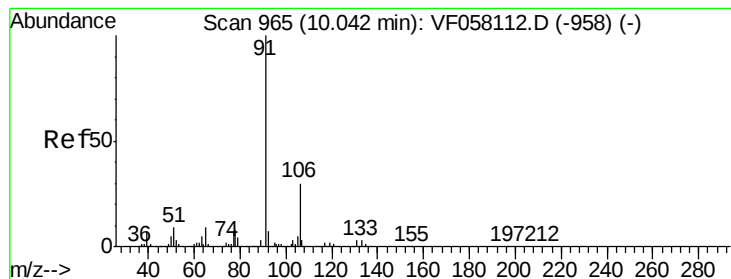
Tot Ion:112 Resp: 143475
Ion Ratio Lower Upper
112 100
114 31.0 26.2 39.4



#66
1,1,1,2-Tetrachloroethane
Concen: 23.397 ug/l
RT: 10.07 min Scan# 968
Delta R.T. -0.00 min
Lab File: VF059249.D
Acq: 21 Jun 2018 3:56

Tgt Ion:131 Resp: 65310
Ion Ratio Lower Upper
131 100
133 94.7 49.1 147.4
119 64.6 34.3 102.8





#67

Ethyl Benzene

Concen: 20.772 ug/l

RT: 10.04 min Scan# 965

Delta R.T. -0.00 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

Instrument :

MSVOA_F

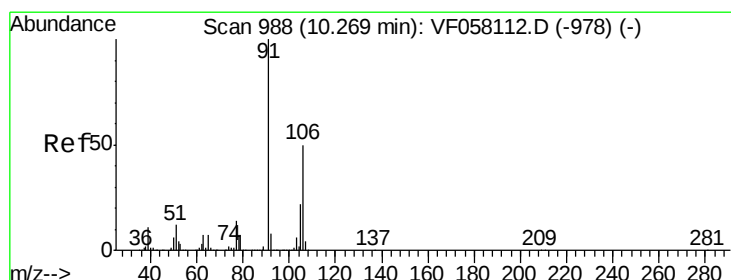
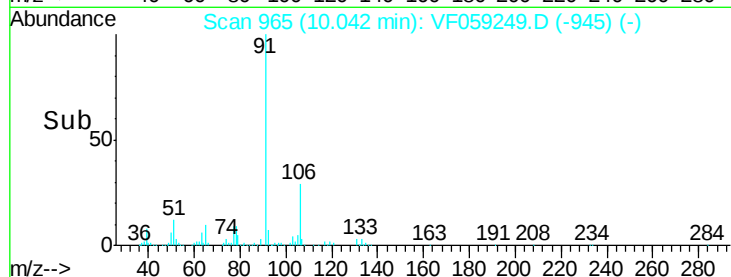
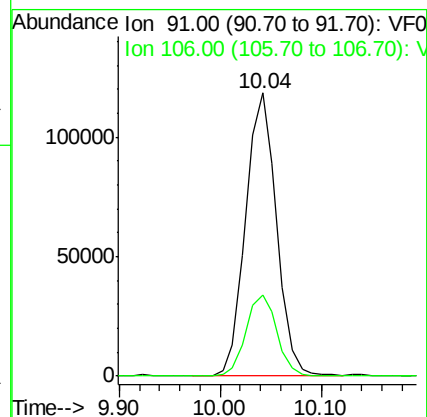
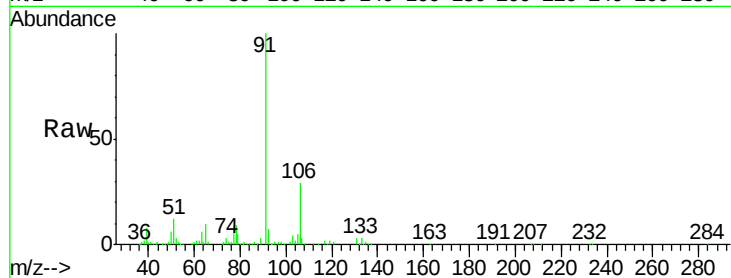
ClientSampleId :

Tot Ion: 91 Resp: 253275

Ion Ratio Lower Upper

91 100

106 28.7 24.2 36.4



#68

m/p-Xylenes

Concen: 39.445 ug/l

RT: 10.27 min Scan# 988

Delta R.T. -0.00 min

Lab File: VF059249.D

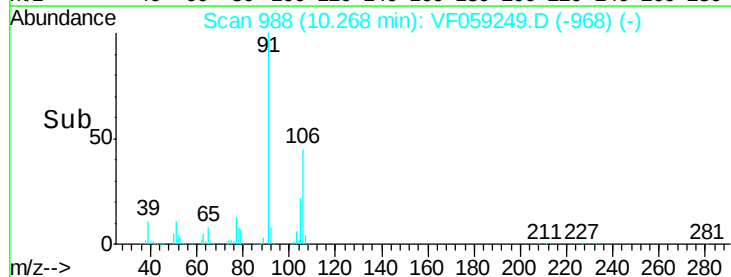
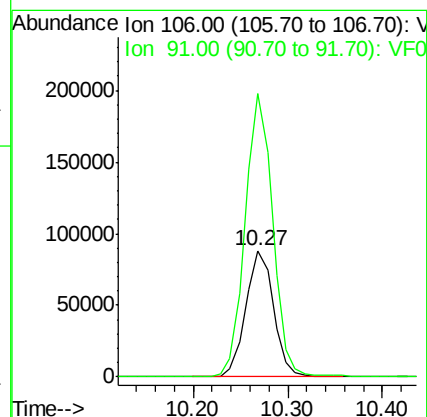
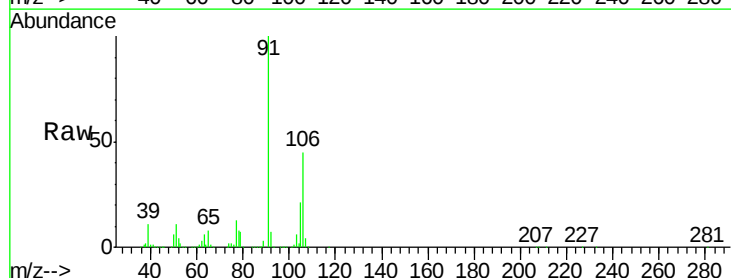
Acq: 21 Jun 2018 3:56

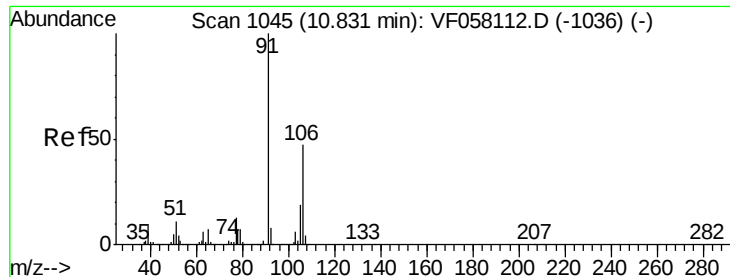
Tgt Ion: 106 Resp: 180067

Ion Ratio Lower Upper

106 100

91 224.5 160.7 241.1

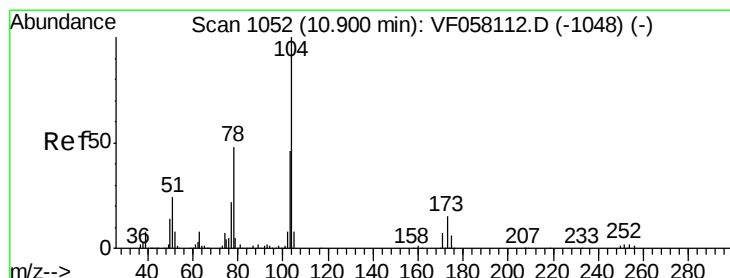
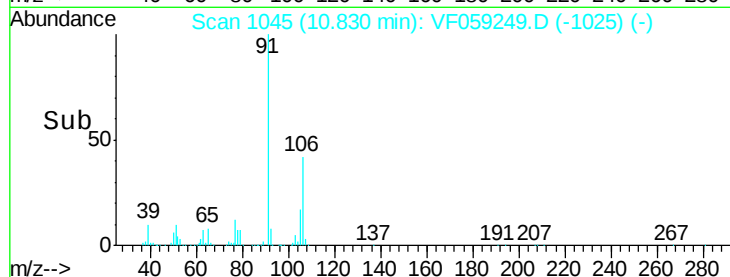
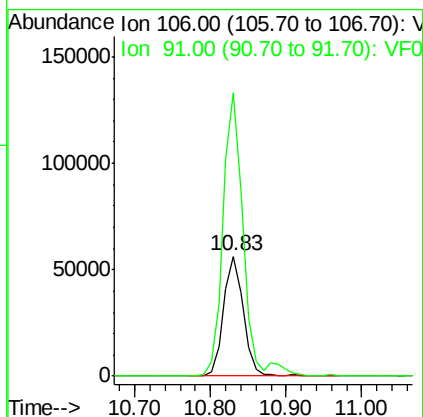
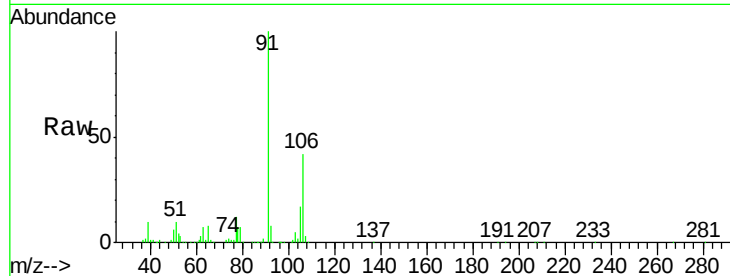




#69
o-Xylene
Concen: 20.719 ug/l
RT: 10.83 min Scan# 1045
Delta R.T. -0.00 min
Lab File: VF059249.D
Acq: 21 Jun 2018 3:56

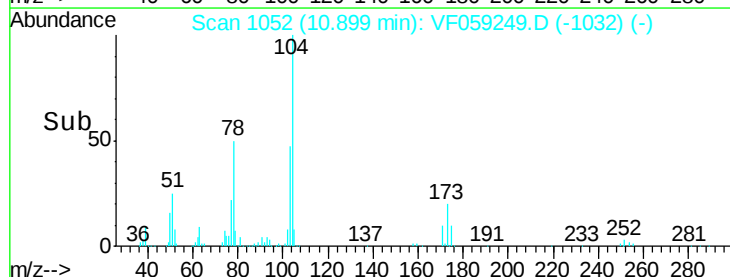
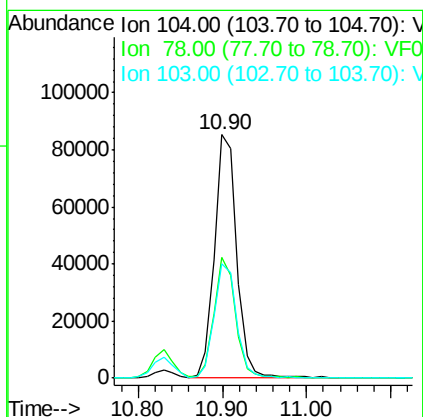
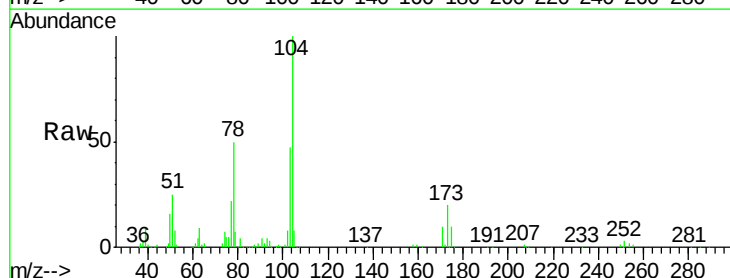
Instrument :
MSVOA_F
ClientSampled :

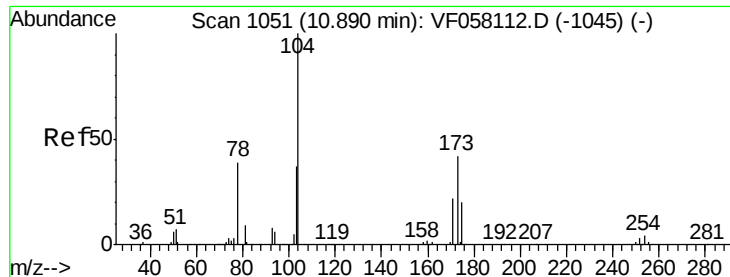
Tot Ion:106 Resp: 102222
Ion Ratio Lower Upper
106 100
91 236.2 107.0 321.0



#70
Styrene
Concen: 20.940 ug/l
RT: 10.90 min Scan# 1052
Delta R.T. -0.00 min
Lab File: VF059249.D
Acq: 21 Jun 2018 3:56

Tgt Ion:104 Resp: 156315
Ion Ratio Lower Upper
104 100
78 49.6 38.4 57.6
103 47.0 37.0 55.6





#71

Bromoform

Concen: 22.108 ug/l

RT: 10.89 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

Instrument :

MSVOA_F

ClientSampled :

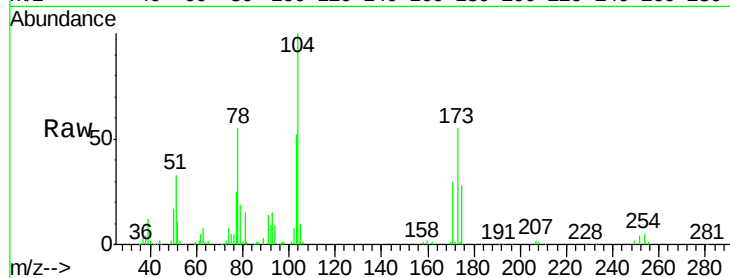
Tot Ion:173 Resp: 41910

Ion Ratio Lower Upper

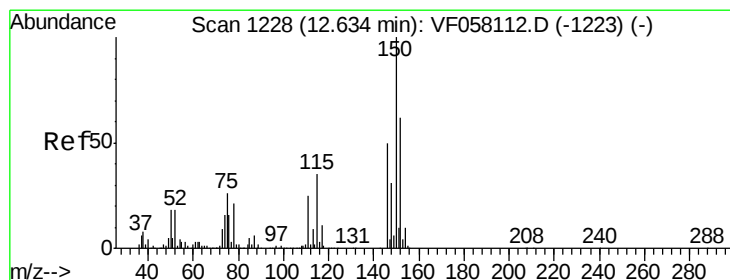
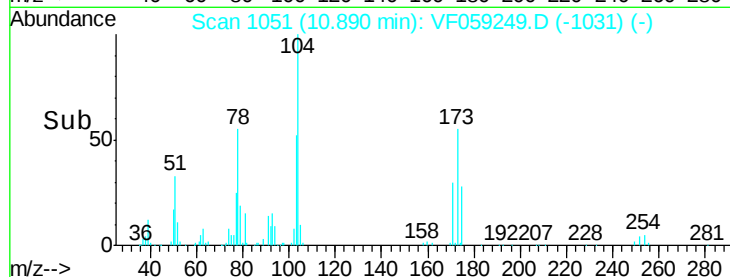
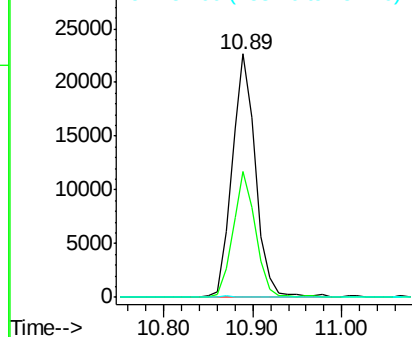
173 100

175 51.6 24.6 74.0

254 0.0 7.8 11.8#



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: 12.63 min Scan# 1228

Delta R.T. -0.00 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

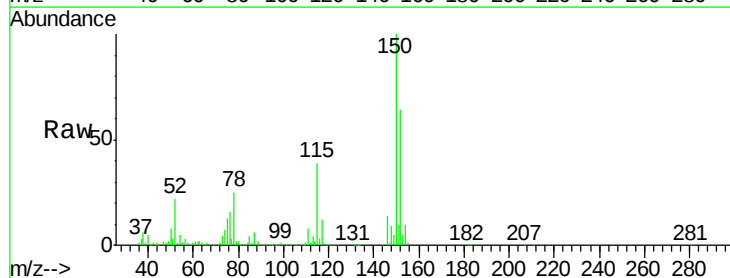
Tgt Ion:152 Resp: 221782

Ion Ratio Lower Upper

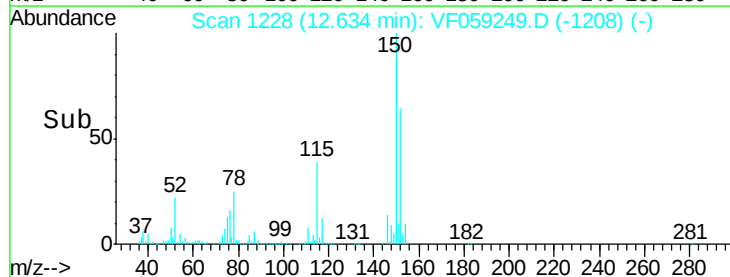
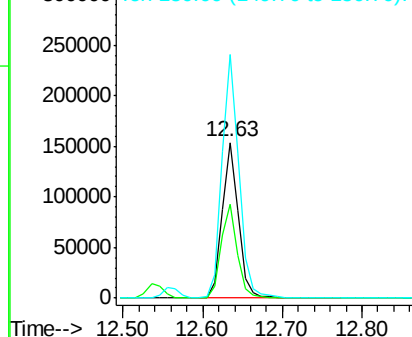
152 100

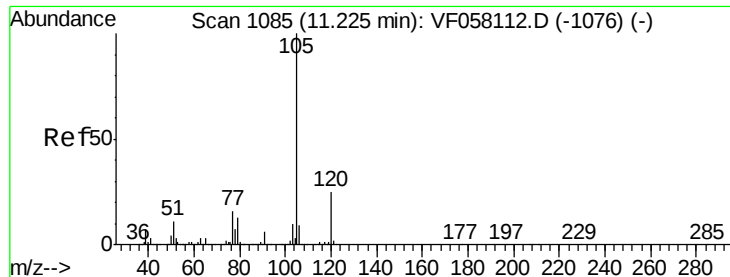
115 60.8 28.5 85.5

150 156.8 0.0 323.8



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: 19.561 ug/l

RT: 11.22 min Scan# 1085

Delta R.T. -0.00 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

Instrument :

MSVOA_F

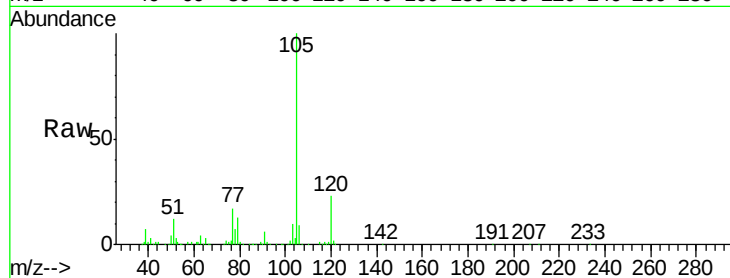
ClientSampleId :

Tot Ion:105 Resp: 300361

Ion Ratio Lower Upper

105 100

120 22.6 12.7 38.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

200000

150000

100000

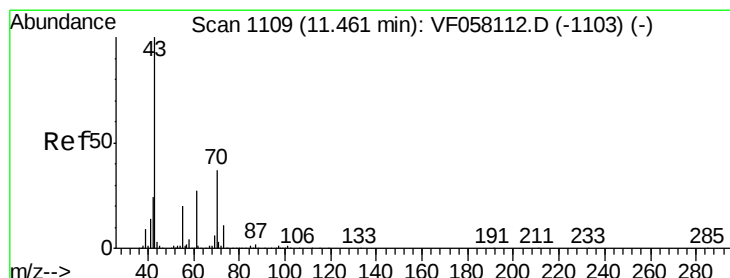
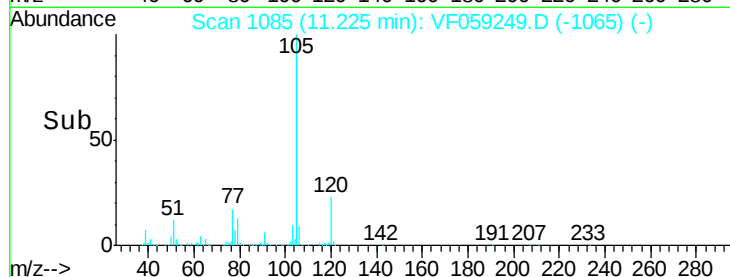
50000

0

11.22

11.30

Time-->



#74

N-ethyl acetate

Concen: 17.270 ug/l

RT: 11.46 min Scan# 1109

Delta R.T. -0.00 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

Tgt Ion: 43 Resp: 94724

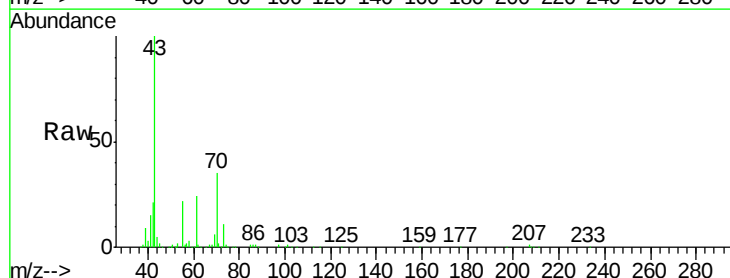
Ion Ratio Lower Upper

43 100

70 35.3 29.2 43.8

55 22.1 15.8 23.6

61 23.5 21.3 31.9



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

80000

60000

40000

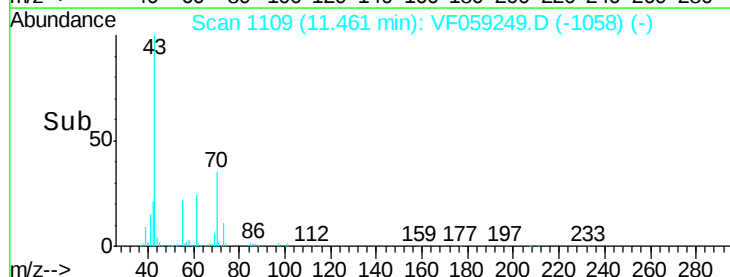
20000

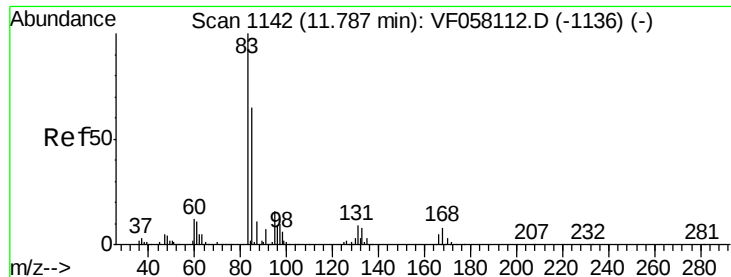
0

11.46

11.50

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 19.004 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

Instrument :

MSVOA_F

ClientSampleId :

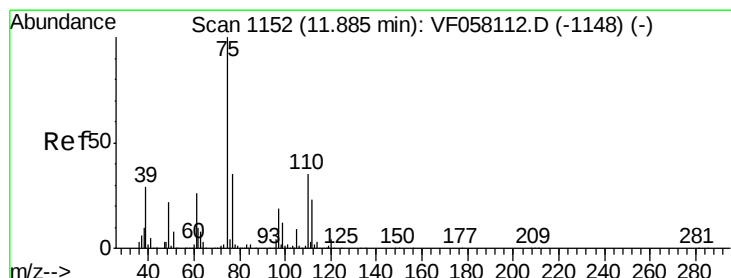
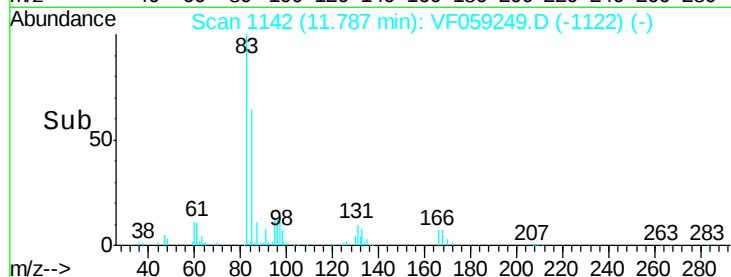
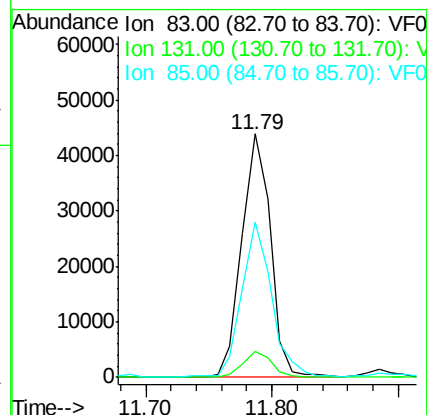
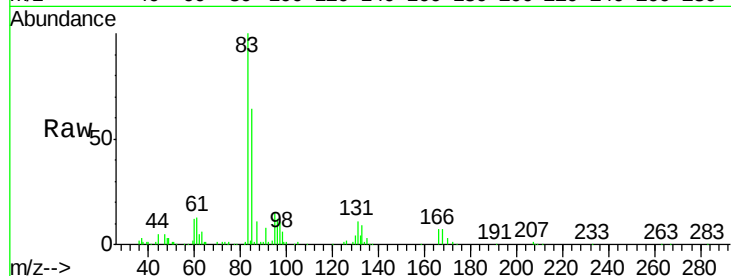
Tot Ion: 83 Resp: 69182

Ion Ratio Lower Upper

83 100

131 10.8 4.5 13.7

85 63.9 32.8 98.3



#76

1,2,3-Trichloropropane

Concen: 19.174 ug/l

RT: 11.89 min Scan# 1152

Delta R.T. -0.00 min

Lab File: VF059249.D

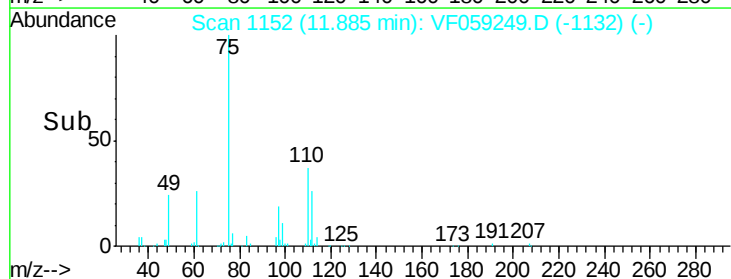
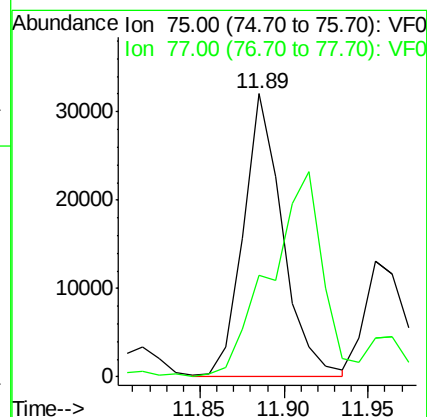
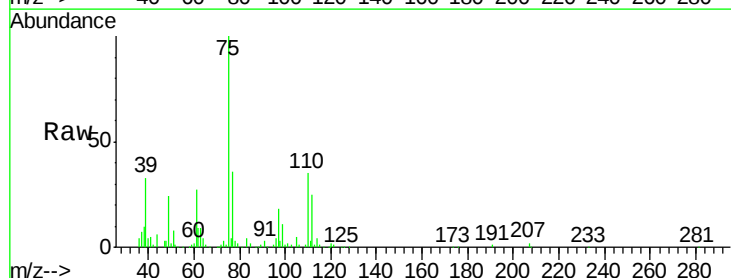
Acq: 21 Jun 2018 3:56

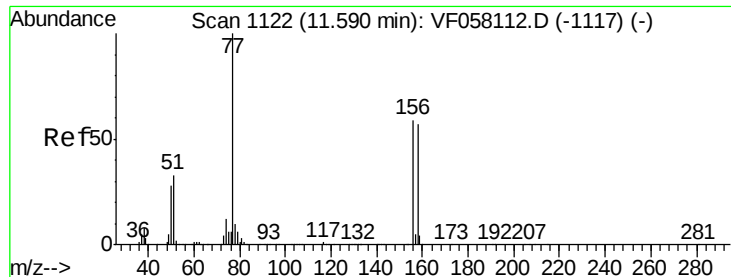
Tgt Ion: 75 Resp: 51552

Ion Ratio Lower Upper

75 100

77 35.7 17.5 52.5





#77

Bromobenzene

Concen: 19.544 ug/l

RT: 11.60 min Scan# 1123

Delta R.T. 0.01 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

Instrument :

MSVOA_F

ClientSampleId :

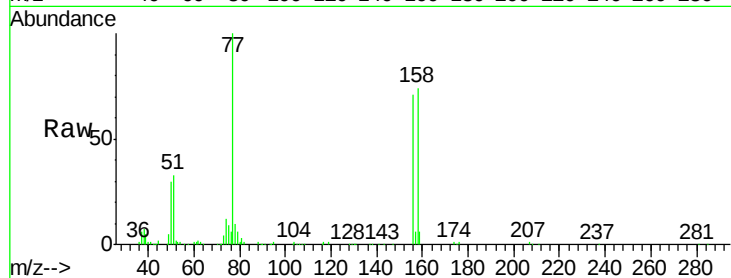
Tot Ion:156 Resp: 75525

Ion Ratio Lower Upper

156 100

77 140.9 84.8 254.4

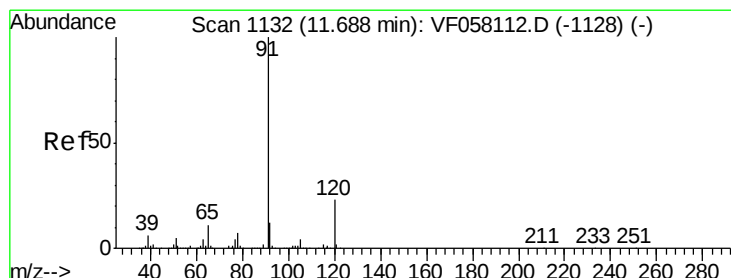
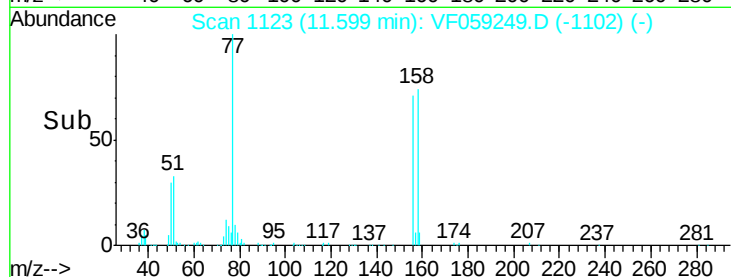
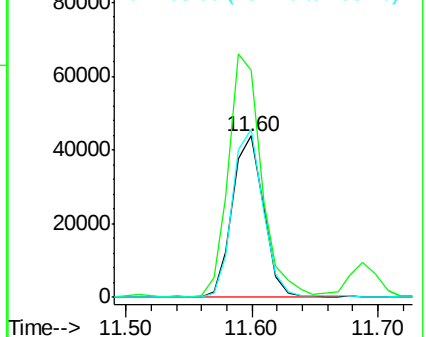
158 104.0 47.9 143.7



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 19.437 ug/l

RT: 11.69 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VF059249.D

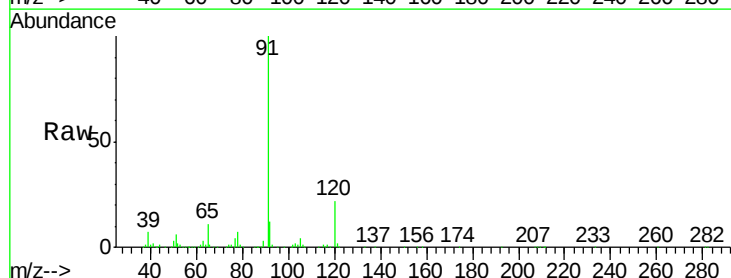
Acq: 21 Jun 2018 3:56

Tgt Ion: 91 Resp: 353254

Ion Ratio Lower Upper

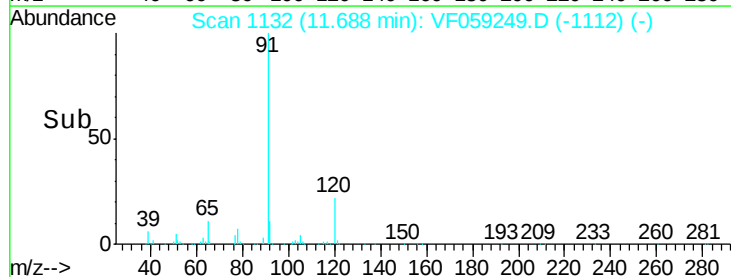
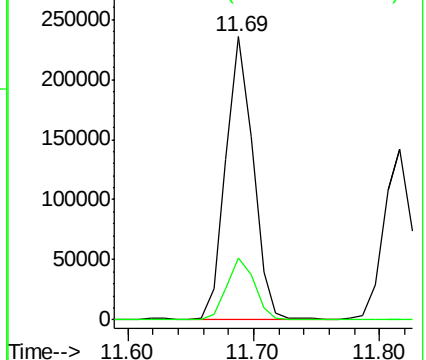
91 100

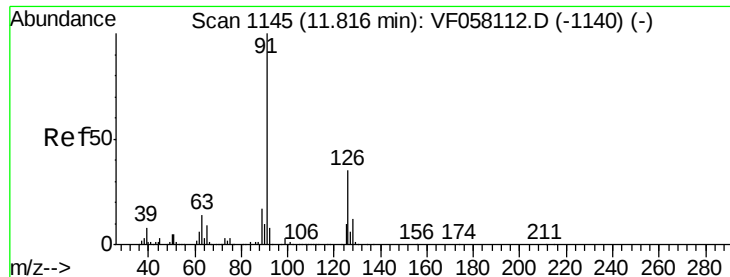
120 21.7 11.5 34.5



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

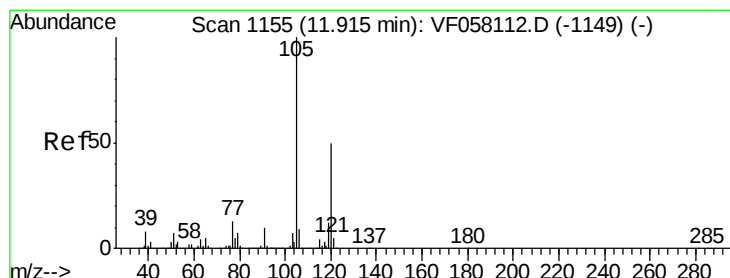
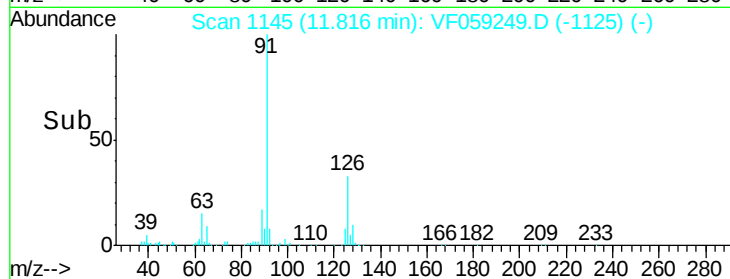
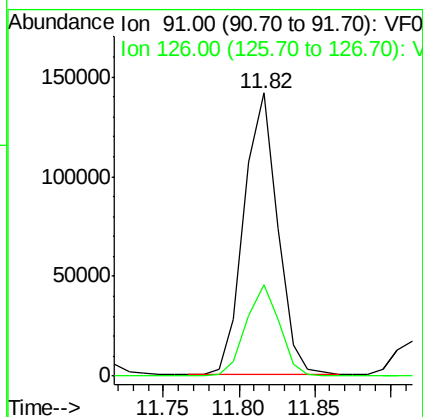
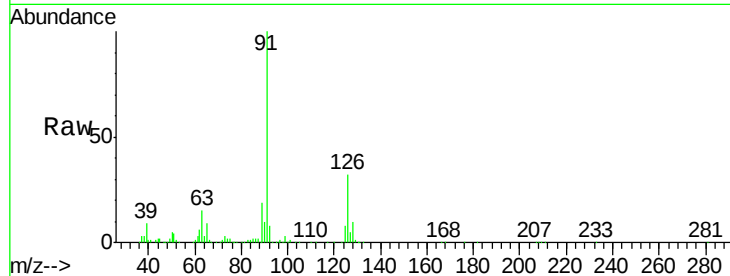




#79
 2-Chlorotoluene
 Concen: 20.420 ug/l
 RT: 11.82 min Scan# 1145
 Delta R.T. -0.00 min
 Lab File: VF059249.D
 Acq: 21 Jun 2018 3:56

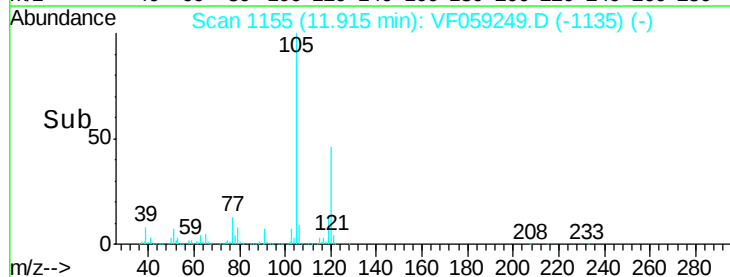
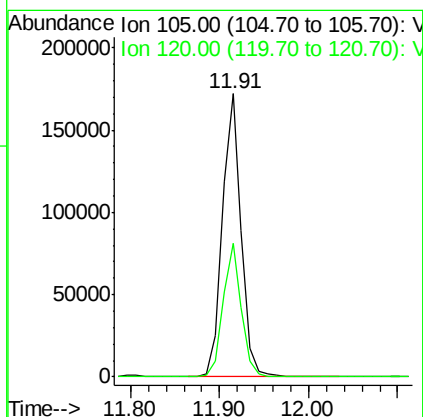
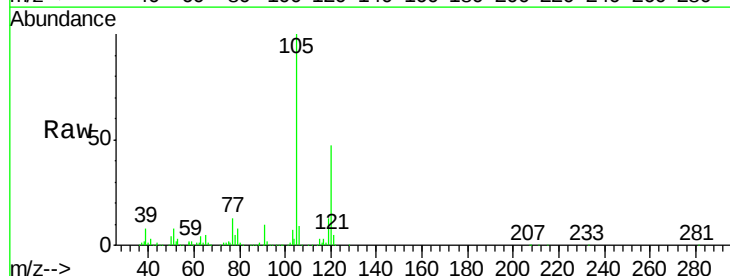
Instrument :
 MSVOA_F
 ClientSampleId :

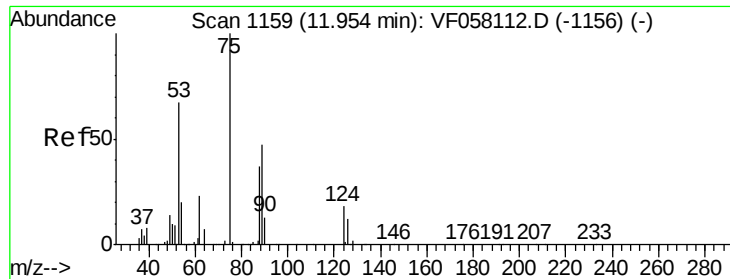
Tot Ion: 91 Resp: 219243
 Ion Ratio Lower Upper
 91 100
 126 32.4 17.6 52.9



#80
 1,3,5-Trimethylbenzene
 Concen: 20.136 ug/l
 RT: 11.91 min Scan# 1155
 Delta R.T. -0.00 min
 Lab File: VF059249.D
 Acq: 21 Jun 2018 3:56

Tgt Ion: 105 Resp: 255903
 Ion Ratio Lower Upper
 105 100
 120 47.2 24.9 74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 15.783 ug/l

RT: 11.95 min Scan# 1159

Delta R.T. -0.00 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

Instrument :

MSVOA_F

ClientSampleId :

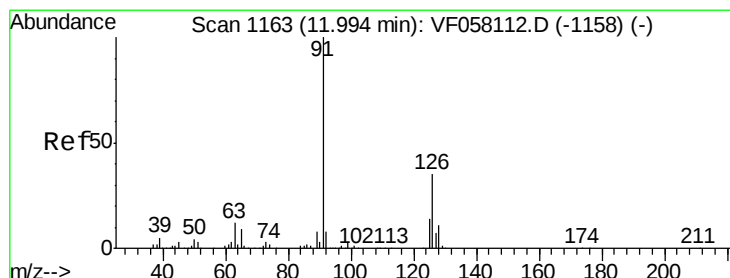
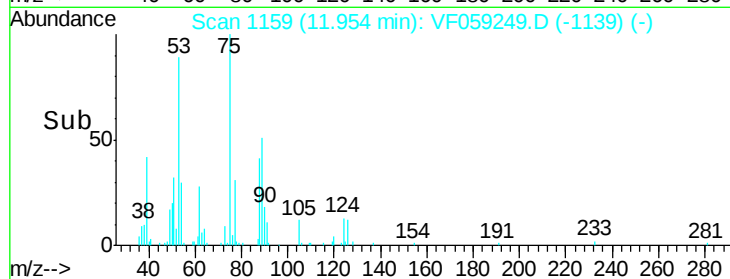
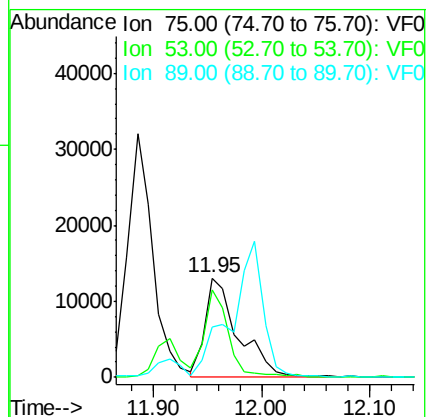
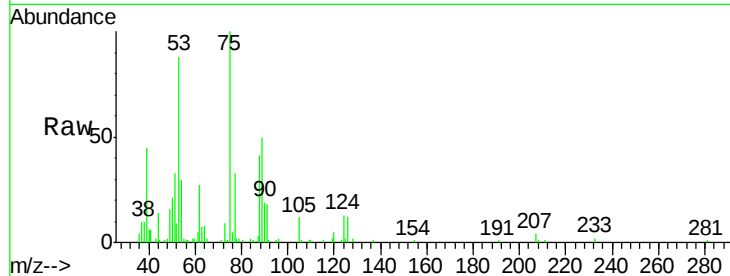
Tot Ion: 75 Resp: 27512

Ion Ratio Lower Upper

75 100

53 87.9 58.7 88.1

89 50.2 39.8 59.6



#82

4-Chlorotoluene

Concen: 20.427 ug/l

RT: 11.99 min Scan# 1163

Delta R.T. -0.00 min

Lab File: VF059249.D

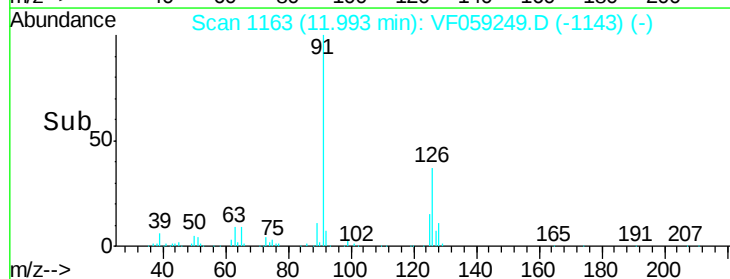
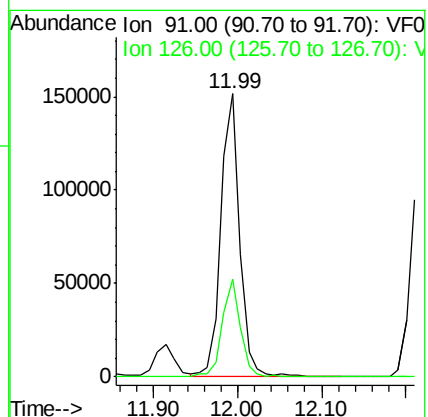
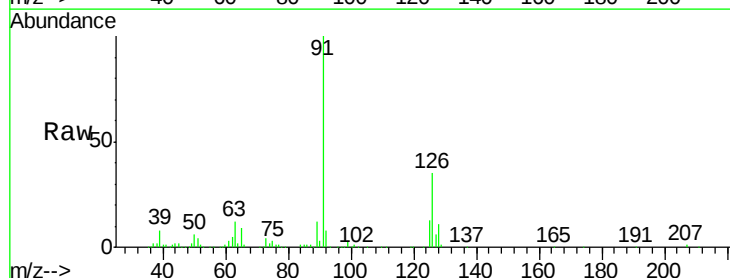
Acq: 21 Jun 2018 3:56

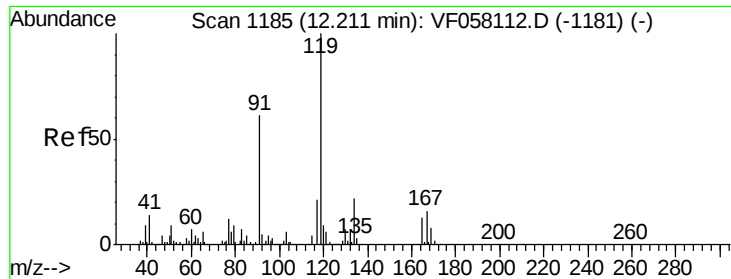
Tgt Ion: 91 Resp: 233493

Ion Ratio Lower Upper

91 100

126 34.8 17.4 52.2





#83

tert-Butylbenzene

Concen: 20.657 ug/l

RT: 12.22 min Scan# 1186

Delta R.T. 0.01 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

Instrument :

MSVOA_F

ClientSampleId :

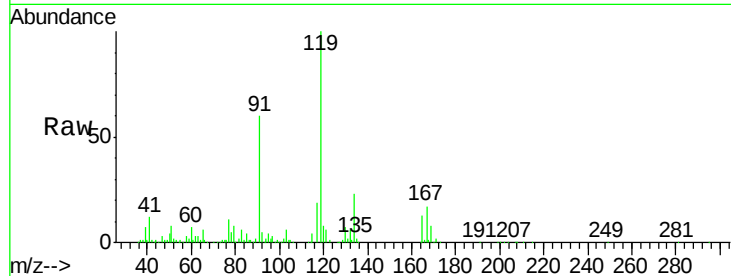
Tot Ion:119 Resp: 260668

Ion Ratio Lower Upper

119 100

91 60.1 30.4 91.3

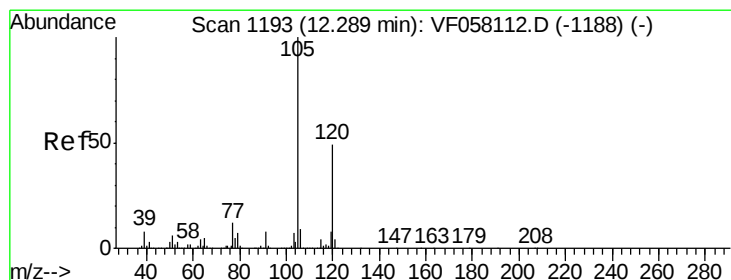
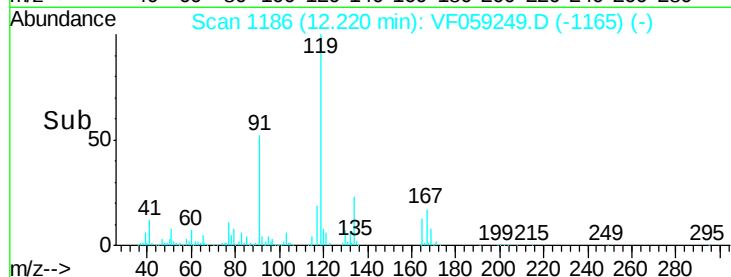
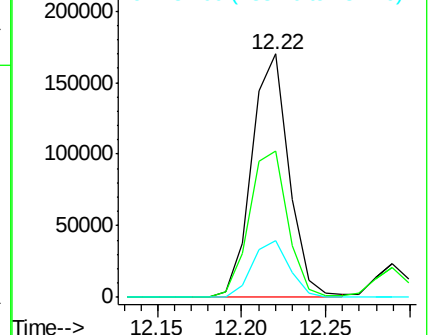
134 23.2 11.2 33.5



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: 20.856 ug/l

RT: 12.29 min Scan# 1193

Delta R.T. -0.00 min

Lab File: VF059249.D

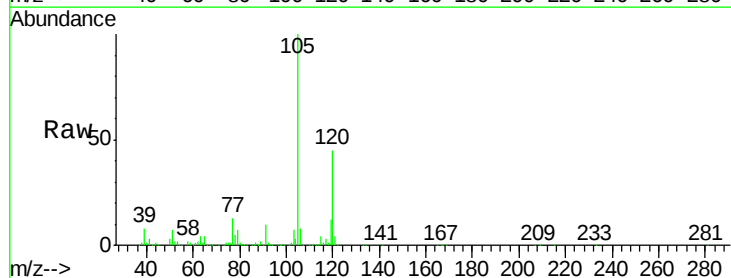
Acq: 21 Jun 2018 3:56

Tgt Ion:105 Resp: 274633

Ion Ratio Lower Upper

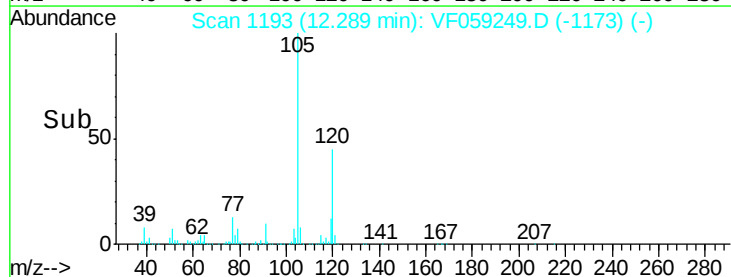
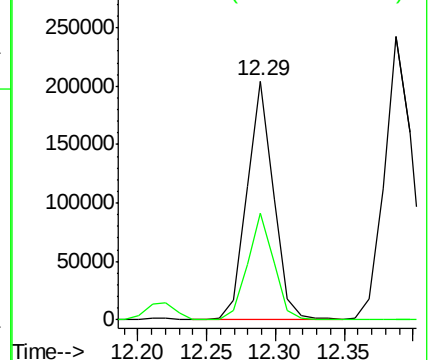
105 100

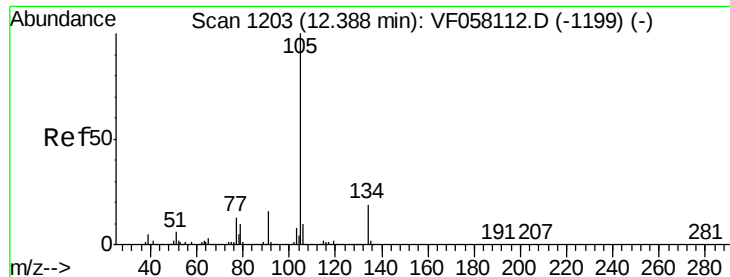
120 44.7 24.7 74.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 19.960 ug/l

RT: 12.39 min Scan# 1203

Delta R.T. -0.00 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

Instrument :

MSVOA_F

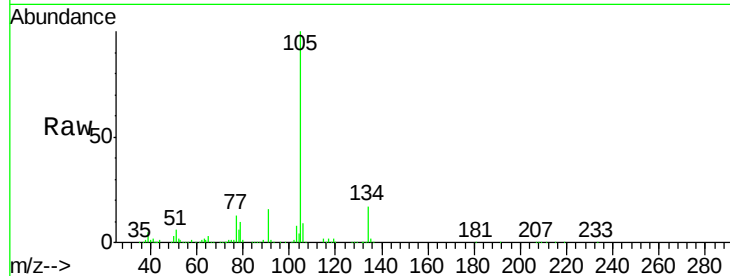
ClientSampleId :

Tot Ion:105 Resp: 342247

Ion Ratio Lower Upper

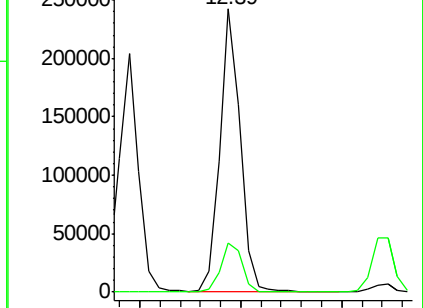
105 100

134 17.2 9.6 28.6

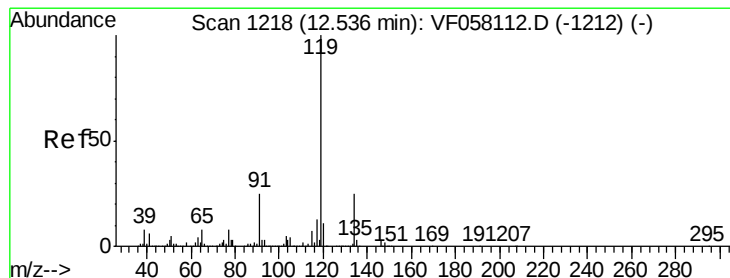
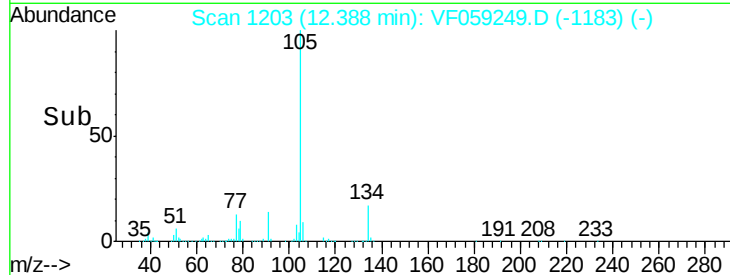


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



Time-->



#86

p-Isopropyltoluene

Concen: 20.186 ug/l

RT: 12.54 min Scan# 1218

Delta R.T. -0.00 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

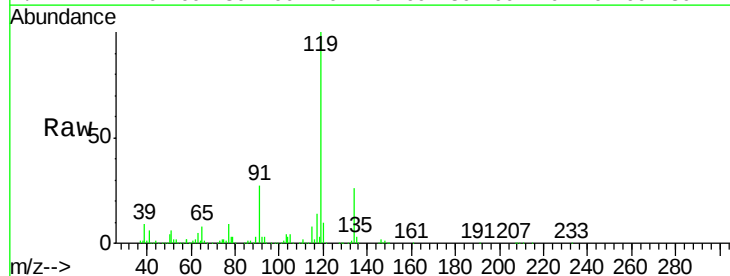
Tgt Ion:119 Resp: 284293

Ion Ratio Lower Upper

119 100

134 25.8 12.7 38.0

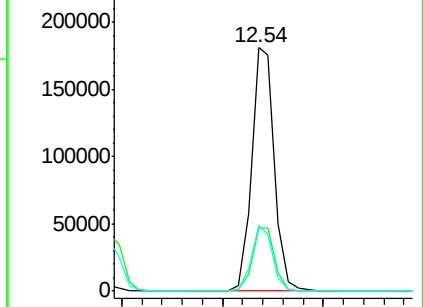
91 26.9 12.6 37.6



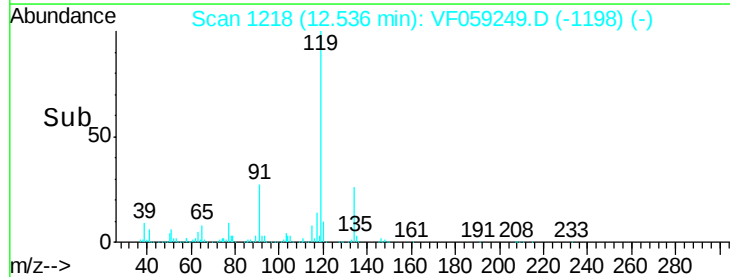
Abundance Ion 119.00 (118.70 to 119.70): V

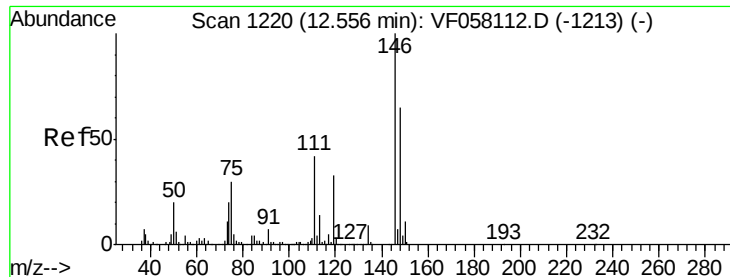
Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0



Time-->





#87

1,3-Dichlorobenzene

Concen: 20.764 ug/l

RT: 12.56 min Scan# 1220

Delta R.T. -0.00 min

Lab File: VF059249.D

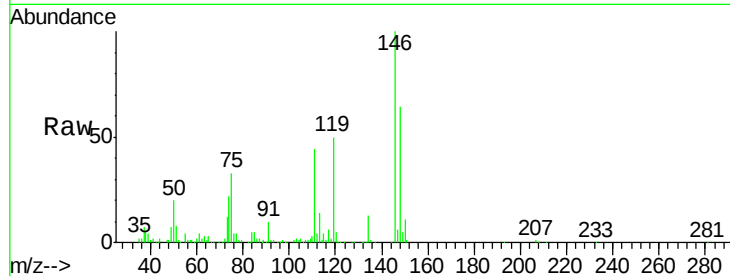
Acq: 21 Jun 2018 3:56

Instrument :

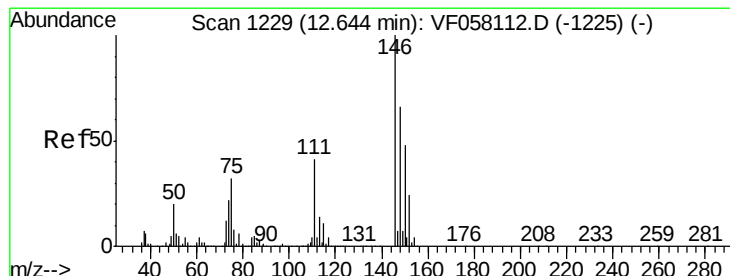
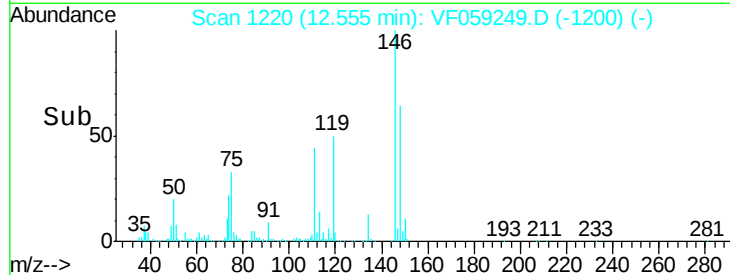
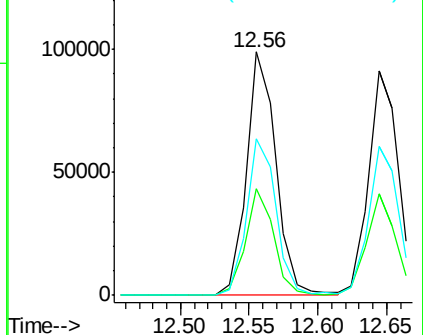
MSVOA_F

ClientSampleId :

Tot Ion:	146	Resp:	148145
Ion	Ratio	Lower	Upper
146	100		
111	43.9	20.8	62.5
148	64.3	32.3	96.9



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V



#88

1,4-Dichlorobenzene

Concen: 20.542 ug/l

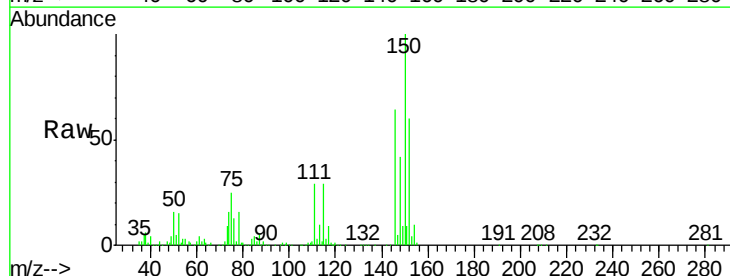
RT: 12.64 min Scan# 1229

Delta R.T. -0.00 min

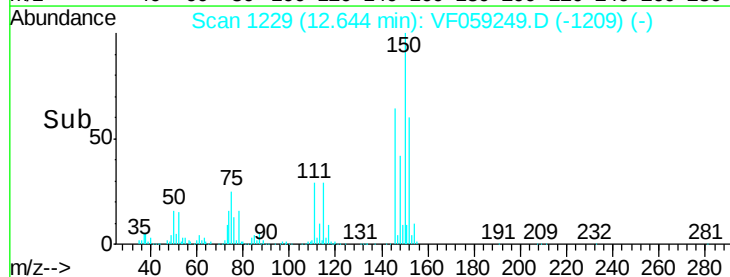
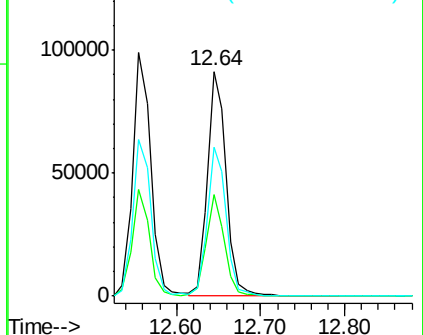
Lab File: VF059249.D

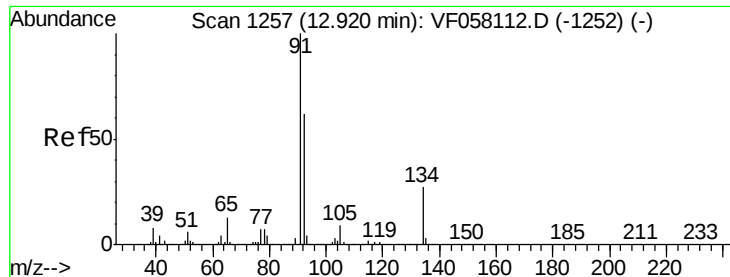
Acq: 21 Jun 2018 3:56

Tgt Ion:	146	Resp:	141239
Ion	Ratio	Lower	Upper
146	100		
111	45.0	20.4	61.2
148	66.5	33.0	99.0



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V





#89

n-Butylbenzene

Concen: 18.149 ug/l

RT: 12.92 min Scan# 1257

Delta R.T. 0.00 min

Lab File: VF059249.D

Acq: 21 Jun 2018 3:56

Instrument :

MSVOA_F

ClientSampled :

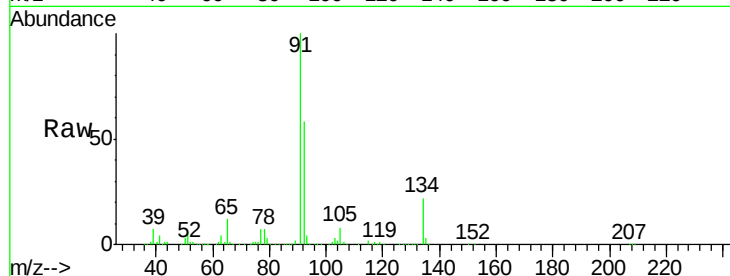
Tot Ion: 91 Resp: 293407

Ion Ratio Lower Upper

91 100

92 57.6 31.1 93.5

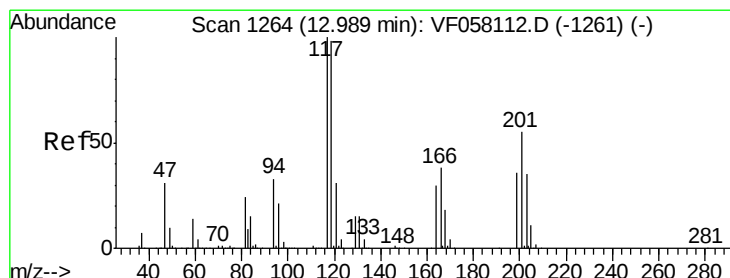
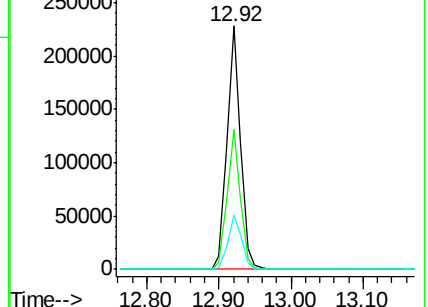
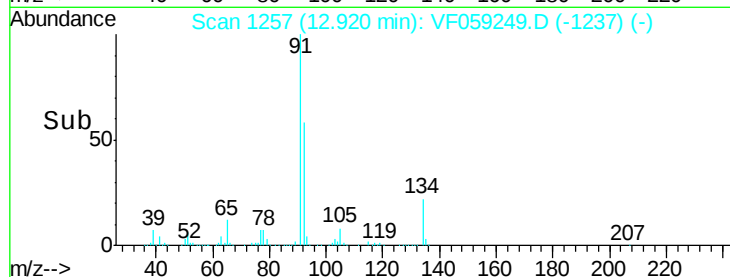
134 22.2 13.6 40.8



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: 20.518 ug/l

RT: 13.00 min Scan# 1265

Delta R.T. 0.01 min

Lab File: VF059249.D

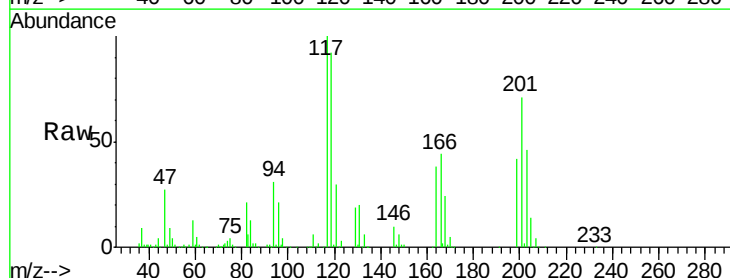
Acq: 21 Jun 2018 3:56

Tgt Ion: 117 Resp: 71160

Ion Ratio Lower Upper

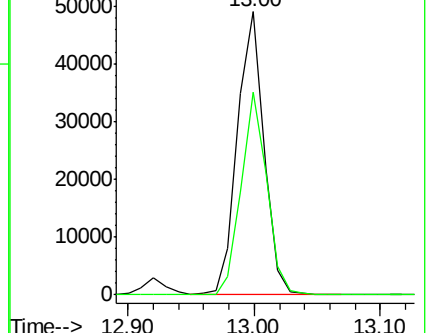
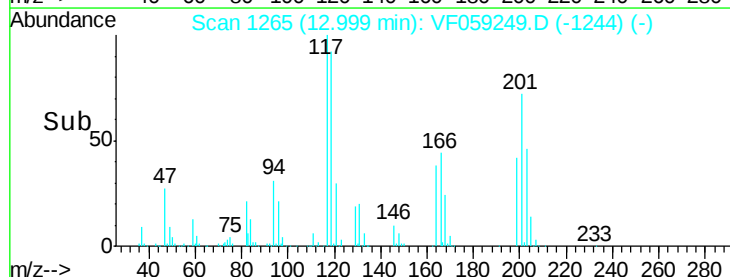
117 100

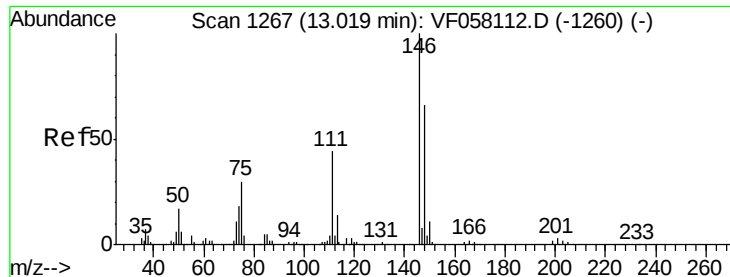
201 71.5 27.5 82.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

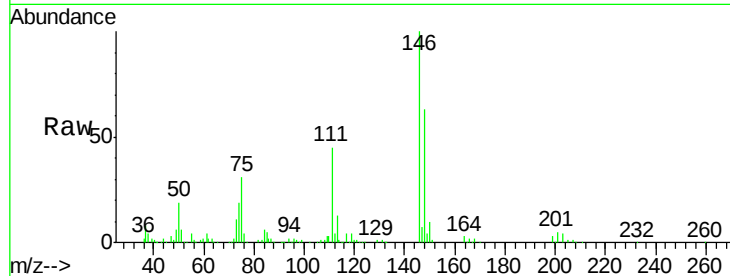




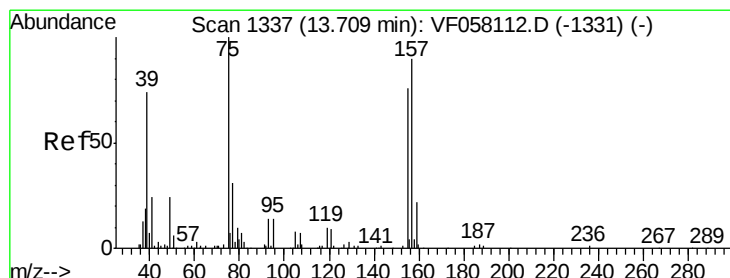
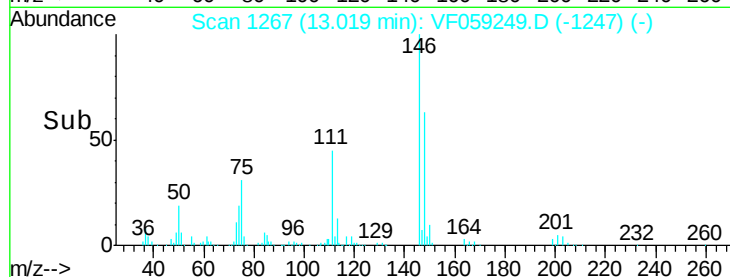
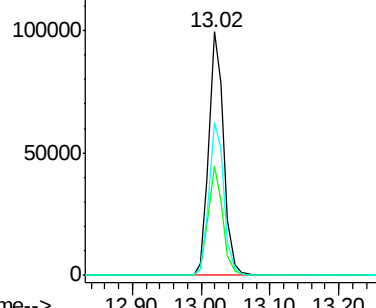
#91
 1,2-Dichlorobenzene
 Concen: 21.798 ug/l
 RT: 13.02 min Scan# 1267
 Delta R.T. -0.00 min
 Lab File: VF059249.D
 Acq: 21 Jun 2018 3:56

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.9	22.0	66.0
148	62.7	33.1	99.3

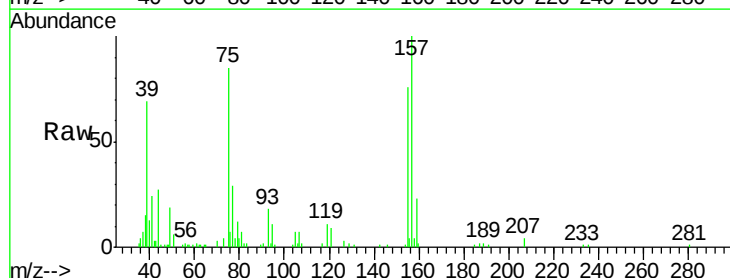


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

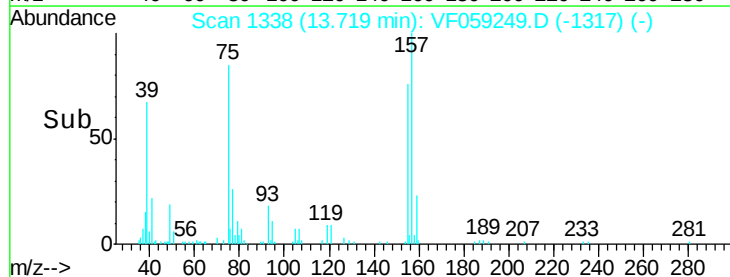
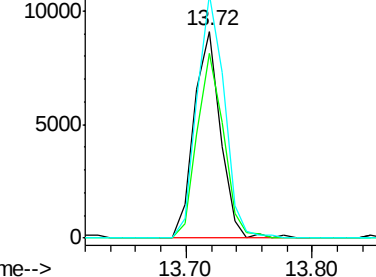


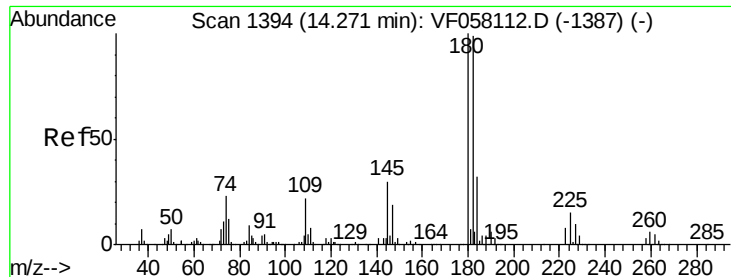
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.361 ug/l
 RT: 13.72 min Scan# 1338
 Delta R.T. 0.01 min
 Lab File: VF059249.D
 Acq: 21 Jun 2018 3:56

Tgt Ion	Ratio	Lower	Upper
75	100		
155	89.5	38.0	114.0
157	117.8	45.1	135.5



Abundance Ion 75.00 (74.70 to 75.70): VF0
 Ion 155.00 (154.70 to 155.70): V
 Ion 157.00 (156.70 to 157.70): V

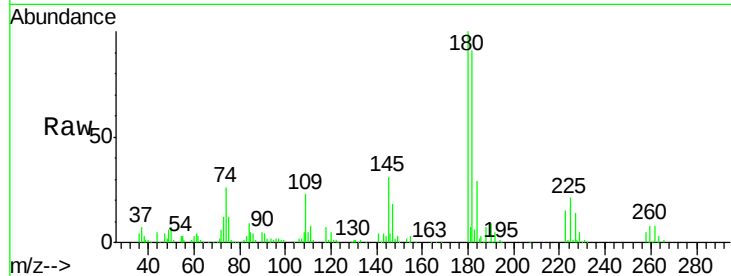




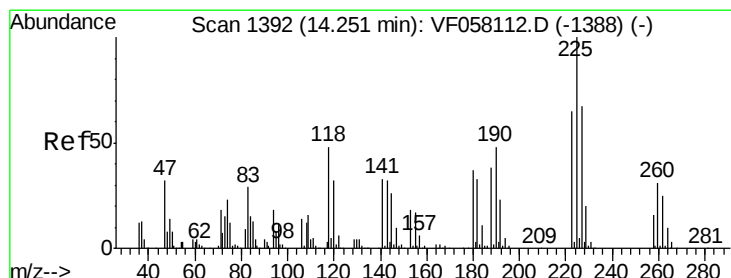
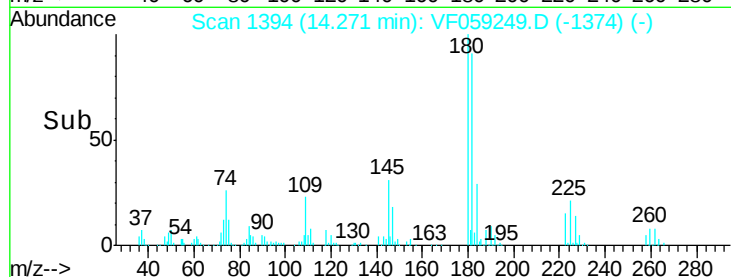
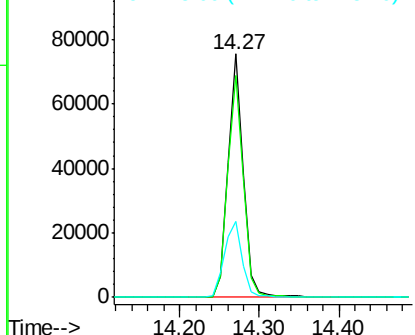
#93
 1,2,4-Trichlorobenzene
 Concen: 21.356 ug/l
 RT: 14.27 min Scan# 1394
 Delta R.T. -0.00 min
 Lab File: VF059249.D
 Acq: 21 Jun 2018 3:56

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion:180 Resp: 102668
 Ion Ratio Lower Upper
 180 100
 182 91.4 49.3 147.9
 145 31.2 14.9 44.9

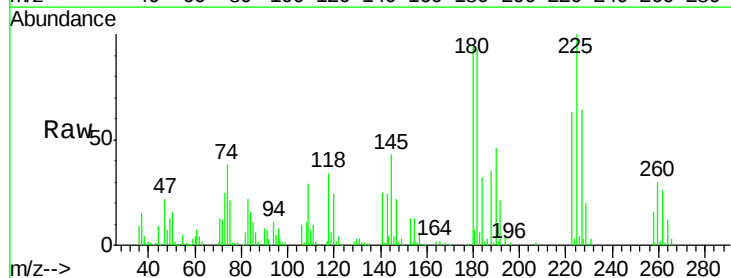


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

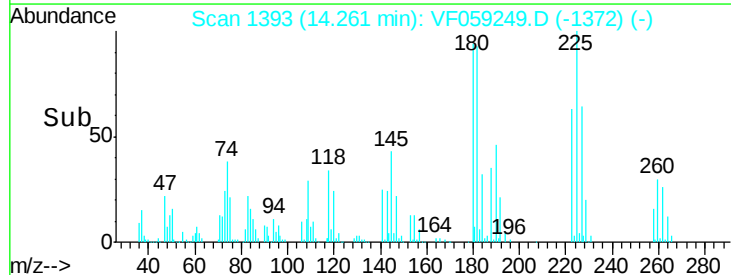
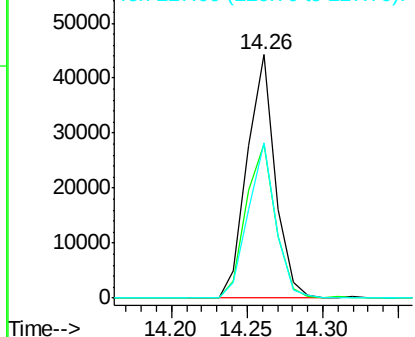


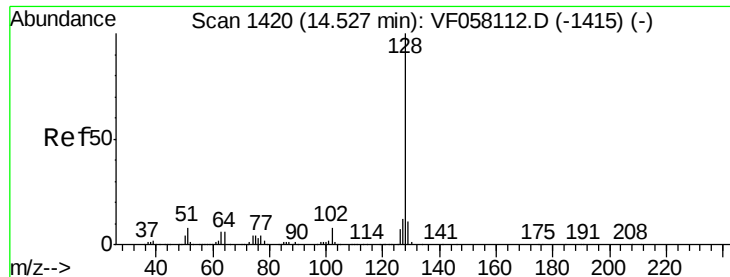
#94
 Hexachlorobutadiene
 Concen: 20.557 ug/l
 RT: 14.26 min Scan# 1393
 Delta R.T. 0.01 min
 Lab File: VF059249.D
 Acq: 21 Jun 2018 3:56

Tgt Ion:225 Resp: 57188
 Ion Ratio Lower Upper
 225 100
 223 63.3 32.8 98.3
 227 63.6 33.3 99.9



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

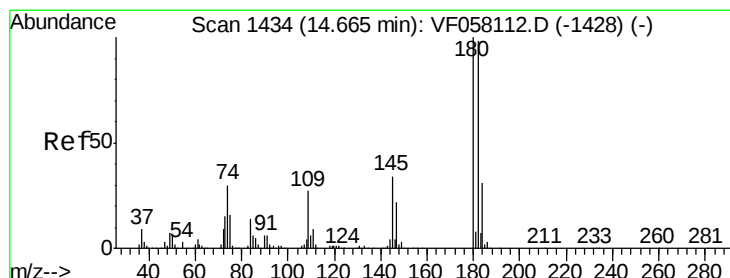
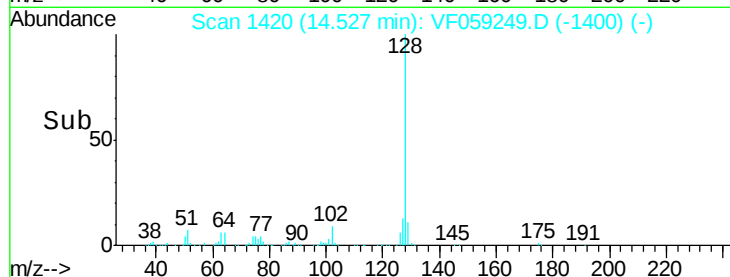
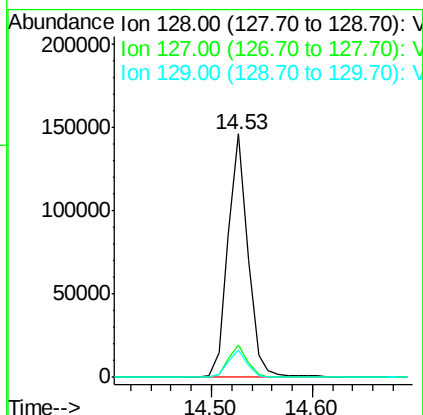
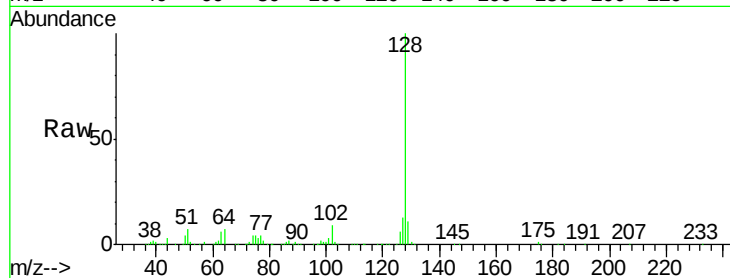




#95
Naphthalene
Concen: 19.601 ug/l
RT: 14.53 min Scan# 1420
Delta R.T. -0.00 min
Lab File: VF059249.D
Acq: 21 Jun 2018 3:56

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	9.9	14.9
129	11.3	8.7	13.1



#96
1,2,3-Trichlorobenzene
Concen: 20.456 ug/l
RT: 14.67 min Scan# 1435
Delta R.T. 0.01 min
Lab File: VF059249.D
Acq: 21 Jun 2018 3:56

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.4	48.9	146.6
145	29.1	17.3	51.7

