

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062618\
 Data File : VF059317.D
 Acq On : 26 Jun 2018 15:22
 Operator : VA/AP
 Sample : J3664-08MSD
 Misc : 5.52g/5mL/MSVOA-F/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 WP021SB476-25-27-180619MSD

Quant Time: Jun 27 02:20:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 26 08:45:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.02	168	270697	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.75	114	419693	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	421612	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	245183	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.00	65	157431	45.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.02%	
35) Dibromofluoromethane	4.27	113	141550	46.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.32%	
50) Toluene-d8	7.69	98	352221	46.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.78%	
62) 4-Bromofluorobenzene	11.49	95	195482	45.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.28%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.98	85	110020	44.485	ug/l	93
3) Chloromethane	1.07	50	74949	45.109	ug/l	98
4) Vinyl Chloride	1.14	62	77546	47.415	ug/l	98
5) Bromomethane	1.33	94	49511	54.266	ug/l	97
6) Chloroethane	1.42	64	38298	46.493	ug/l	98
7) Trichlorofluoromethane	1.47	101	55231	17.078	ug/l	91
8) Diethyl Ether	1.69	74	37257	44.929	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	1.88	101	89059	47.176	ug/l	99
10) Methyl Iodide	1.95	142	160335	46.575	ug/l	99
11) Tert butyl alcohol	2.66	59	47074	202.180	ug/l	97
12) 1,1-Dichloroethene	1.84	96	79983	50.117	ug/l	93
13) Acrolein	2.07	56	19592	170.309	ug/l	89
14) Allyl chloride	2.17	41	144013	48.071	ug/l	99
15) Acrylonitrile	3.06	53	99887	243.619	ug/l	93
16) Acetone	2.32	43	260068	299.777	ug/l	98
17) Carbon Disulfide	1.85	76	179832	47.903	ug/l	97
18) Methyl Acetate	2.43	43	84054	53.325	ug/l	96
19) Methyl tert-butyl Ether	2.51	73	282508	47.458	ug/l	93
20) Methylene Chloride	2.26	84	55493	24.529	ug/l	94
21) trans-1,2-Dichloroethene	2.39	96	82341	48.367	ug/l	89
22) Diisopropyl ether	2.91	45	305171	46.001	ug/l	98
23) Vinyl Acetate	3.31	43	905477	214.318	ug/l	99
24) 1,1-Dichloroethane	2.98	63	195209	47.460	ug/l	100
25) 2-Butanone	4.47	43	260529	246.208	ug/l	94
26) 2,2-Dichloropropane	3.74	77	138408	48.788	ug/l	92
27) cis-1,2-Dichloroethene	3.61	96	122177	47.268	ug/l	87
28) Bromochloromethane	3.86	49	76997	48.629	ug/l	97
29) Tetrahydrofuran	4.23	42	108434	240.726	ug/l	99
30) Chloroform	4.01	83	275245	46.225	ug/l	97
31) Cyclohexane	3.84	56	130889	48.576	ug/l	95
32) 1,1,1-Trichloroethane	4.25	97	209147	47.998	ug/l	98
36) 1,1-Dichloropropene	4.44	75	179733	49.022	ug/l	97
37) Ethyl Acetate	4.26	43	107397	45.663	ug/l #	65
38) Carbon Tetrachloride	4.14	117	243870	52.707	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	5.60	83	161715	49.775	ug/l	99
40) Benzene	4.78	78	381973	46.988	ug/l	100
41) Methacrylonitrile	4.90	41	55000	43.977	ug/l	95
42) 1,2-Dichloroethane	5.10	62	226839	47.754	ug/l	99
43) Isopropyl Acetate	7.09	43	135734	44.446	ug/l #	89
44) Trichloroethene	5.65	130	125304	44.934	ug/l	97
45) 1,2-Dichloropropane	6.38	63	113697	48.953	ug/l	99
46) Dibromomethane	6.23	93	94205	46.732	ug/l	98
47) Bromodichloromethane	6.52	83	233559	47.863	ug/l	96
48) Methyl methacrylate	6.85	41	97956	47.859	ug/l	93
49) 1,4-Dioxane	6.84	88	9547	868.614	ug/l #	70
51) 4-Methyl-2-Pentanone	8.38	43	532401	235.317	ug/l	100
52) Toluene	7.76	92	284636	46.793	ug/l	100
53) t-1,3-Dichloropropene	8.41	75	210808	47.395	ug/l	97
54) cis-1,3-Dichloropropene	7.43	75	228683	47.332	ug/l	98
55) 1,1,2-Trichloroethane	8.61	97	110997	46.998	ug/l	95
56) Ethyl methacrylate	8.74	69	137256	46.914	ug/l	96
57) 1,3-Dichloropropane	8.98	76	185866	45.887	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.76	63	50223	228.887	ug/l	100
59) 2-Hexanone	9.61	43	437494	257.929	ug/l	98
60) Dibromochloromethane	8.84	129	174868	47.959	ug/l	96
61) 1,2-Dibromoethane	9.12	107	132182	46.148	ug/l	97
64) Tetrachloroethene	8.28	164	137698	50.356	ug/l	97
65) Chlorobenzene	9.92	112	362198	46.361	ug/l	96
66) 1,1,1,2-Tetrachloroethane	10.04	131	153150	45.325	ug/l	91
67) Ethyl Benzene	10.01	91	611050	46.105	ug/l	99
68) m/p-Xylenes	10.25	106	448369	95.048	ug/l	95
69) o-Xylene	10.81	106	251582	47.681	ug/l	91
70) Styrene	10.88	104	370672	46.118	ug/l	95
71) Bromoform	10.87	173	111189	48.009	ug/l #	95
73) Isopropylbenzene	11.21	105	715741	50.109	ug/l	99
74) N-amyl acetate	11.44	43	244619	47.193	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.77	83	175279	48.589	ug/l	98
76) 1,2,3-Trichloropropane	11.87	75	132565	48.716	ug/l	93
77) Bromobenzene	11.58	156	187628	47.346	ug/l	84
78) n-propylbenzene	11.67	91	838170	48.861	ug/l	96
79) 2-Chlorotoluene	11.80	91	515624	49.199	ug/l	99
80) 1,3,5-Trimethylbenzene	11.90	105	614491	49.112	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.95	75	79235	48.923	ug/l	92
82) 4-Chlorotoluene	11.98	91	544666	48.520	ug/l	95
83) tert-Butylbenzene	12.20	119	617790	49.368	ug/l	97
84) 1,2,4-Trimethylbenzene	12.27	105	637729	48.395	ug/l	100
85) sec-Butylbenzene	12.37	105	813395	49.036	ug/l	99
86) p-Isopropyltoluene	12.53	119	670662	48.177	ug/l	97
87) 1,3-Dichlorobenzene	12.55	146	341565	52.428	ug/l	97
88) 1,4-Dichlorobenzene	12.64	146	329188	46.513	ug/l	96
89) n-Butylbenzene	12.90	91	662480	46.879	ug/l	99
90) Hexachloroethane	12.98	117	165526	47.708	ug/l	88
91) 1,2-Dichlorobenzene	13.01	146	340165	47.282	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.70	75	39571	49.483	ug/l	75

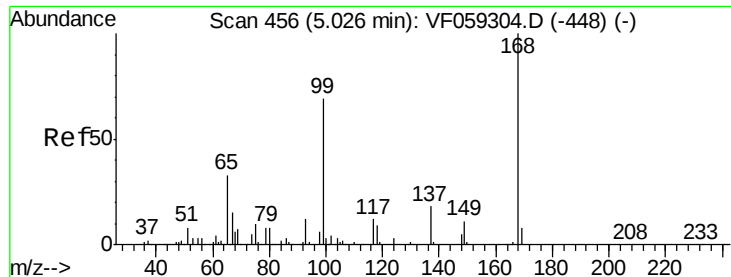
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.25	180	249695	46.938	ug/l	98
94) Hexachlorobutadiene	14.24	225	132914	44.732	ug/l	92
95) Naphthalene	14.51	128	550241	49.437	ug/l	100
96) 1,2,3-Trichlorobenzene	14.66	180	236049	46.841	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.02 min Scan# 455

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

Instrument :

MSVOA_F

ClientSampleId :

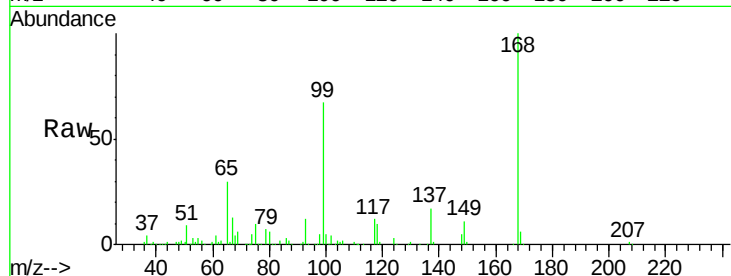
WP021SB476-25-27-180619MSD

Tot Ion:168 Resp: 270697

Ion Ratio Lower Upper

168 100

99 66.8 54.9 82.3

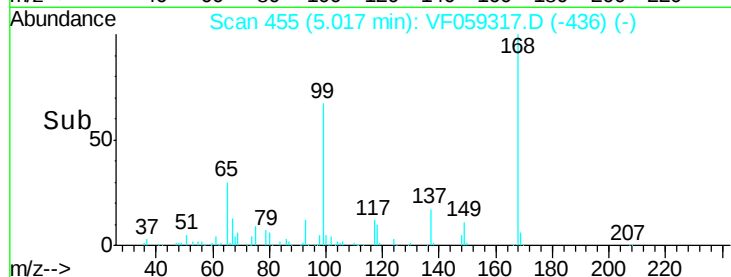


Abundance Ion 168.00 (167.70 to 168.70): VF0

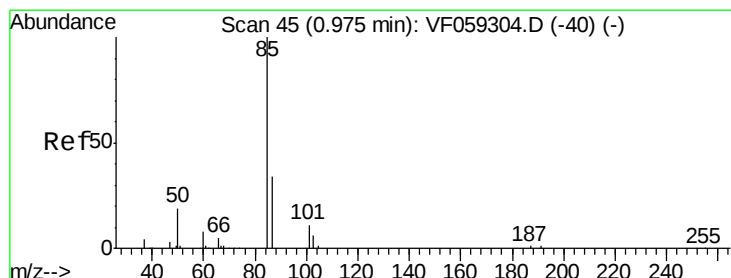
Ion 99.00 (98.70 to 99.70): VF0

5.02

Time-->



Time-->



#2

Dichlorodifluoromethane

Concen: 44.485 ug/l

RT: 0.98 min Scan# 45

Delta R.T. 0.00 min

Lab File: VF059317.D

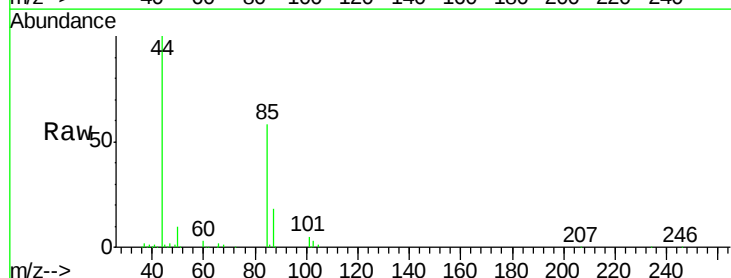
Acq: 26 Jun 2018 15:22

Tgt Ion: 85 Resp: 110020

Ion Ratio Lower Upper

85 100

87 30.0 17.1 51.3

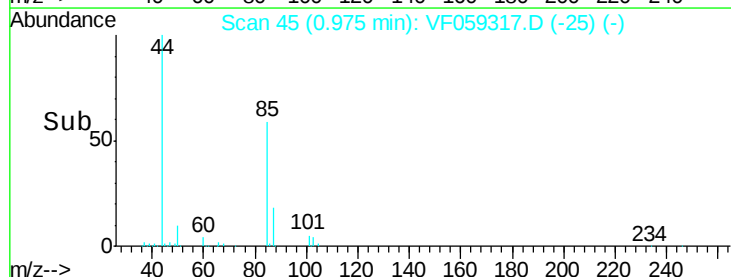


Abundance Ion 85.00 (84.70 to 85.70): VF0

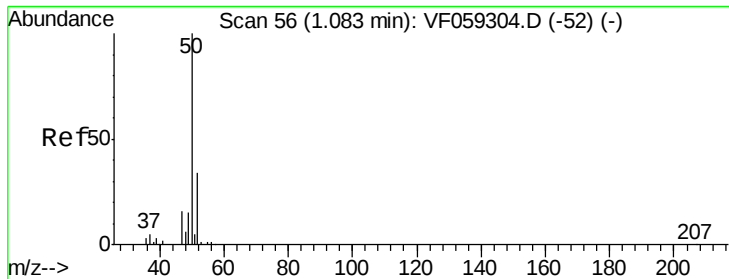
Ion 87.00 (86.70 to 87.70): VF0

0.98

Time-->



Time-->



#3

Chloromethane

Concen: 45.109 ug/l

RT: 1.07 min Scan# 55

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

Instrument :

MSVOA_F

ClientSampleId :

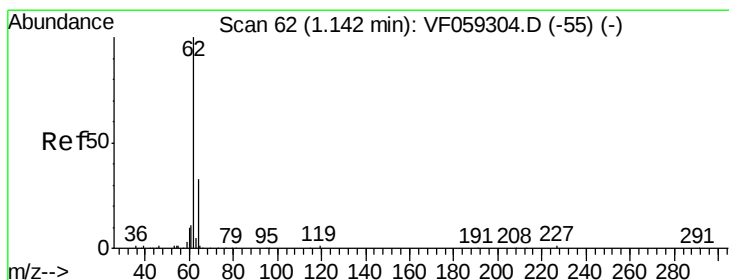
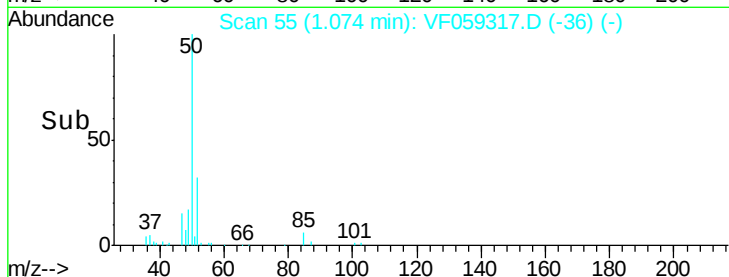
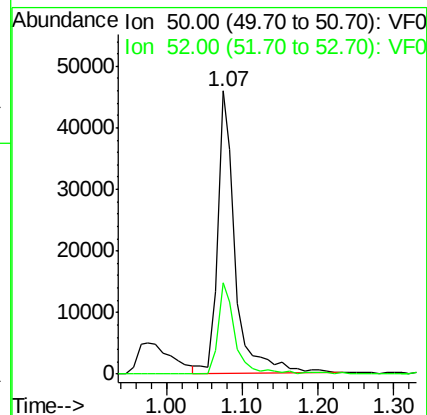
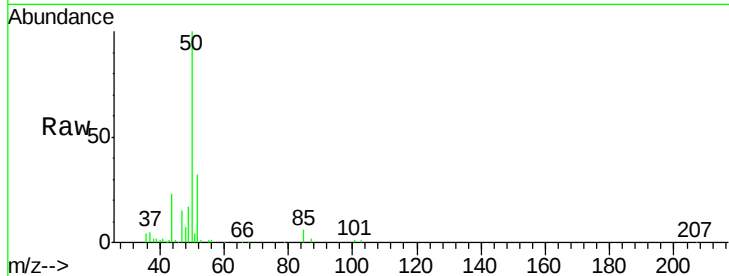
WP021SB476-25-27-180619MSD

Tot Ion: 50 Resp: 74949

Ion Ratio Lower Upper

50 100

52 32.2 26.7 40.1



#4

Vinyl Chloride

Concen: 47.415 ug/l

RT: 1.14 min Scan# 62

Delta R.T. 0.00 min

Lab File: VF059317.D

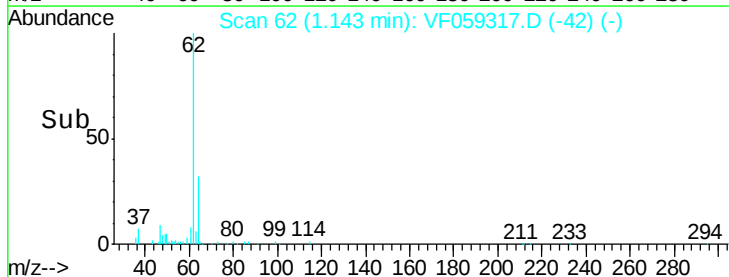
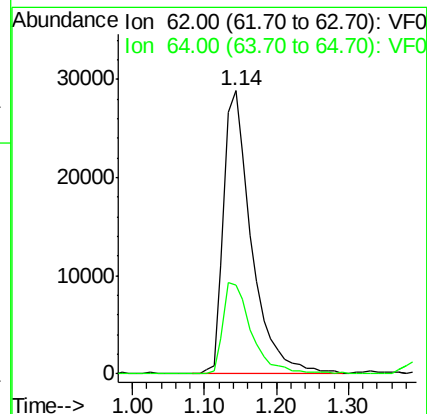
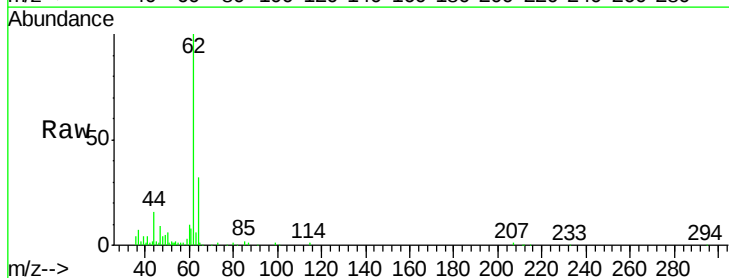
Acq: 26 Jun 2018 15:22

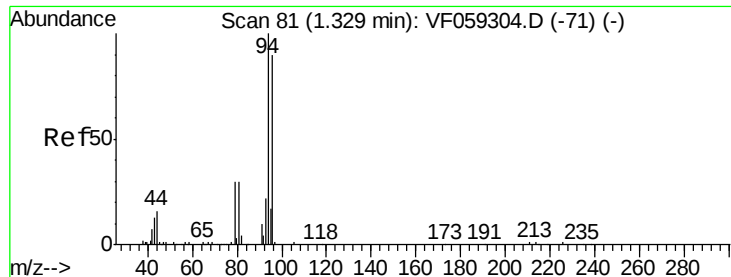
Tgt Ion: 62 Resp: 77546

Ion Ratio Lower Upper

62 100

64 31.5 26.3 39.5





#5

Bromomethane

Concen: 54.266 ug/l

RT: 1.33 min Scan# 81

Delta R.T. 0.00 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

Instrument :

MSVOA_F

ClientSampleId :

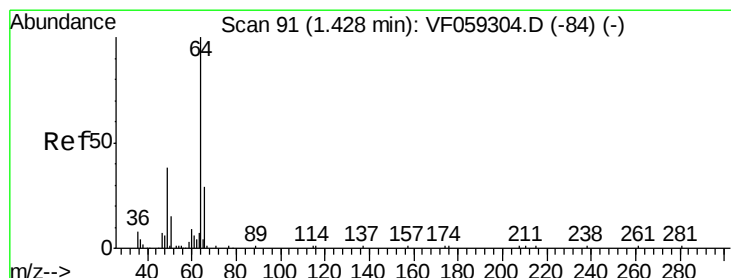
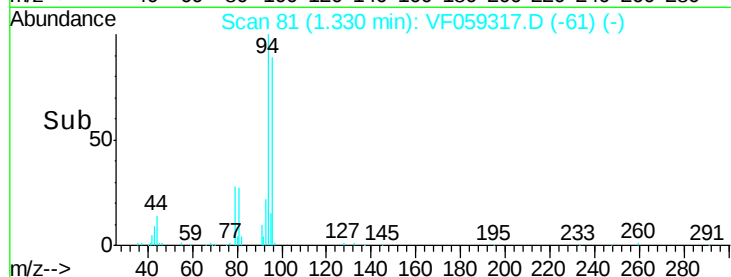
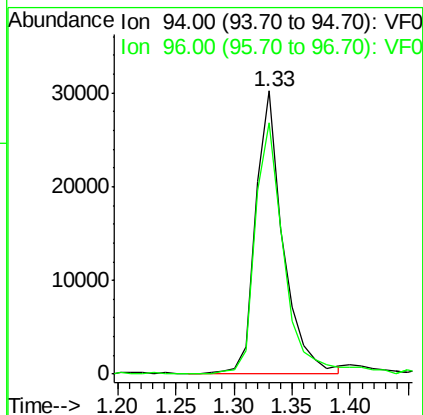
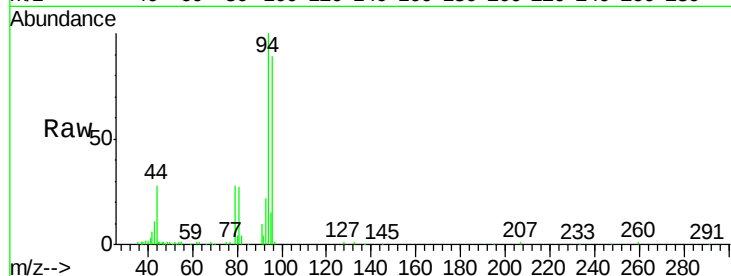
WP021SB476-25-27-180619MSD

Tot Ion: 94 Resp: 49511

Ion Ratio Lower Upper

94 100

96 88.7 73.4 110.0



#6

Chloroethane

Concen: 46.493 ug/l

RT: 1.42 min Scan# 90

Delta R.T. -0.01 min

Lab File: VF059317.D

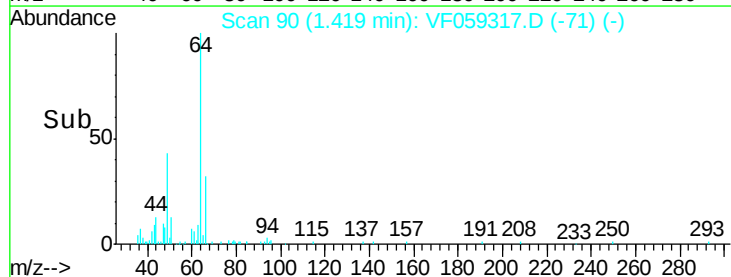
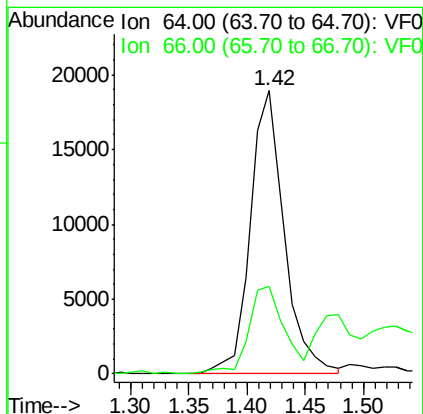
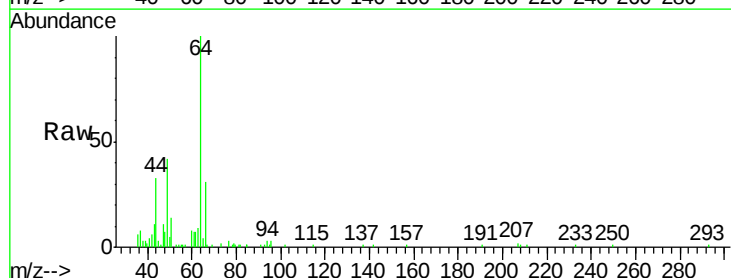
Acq: 26 Jun 2018 15:22

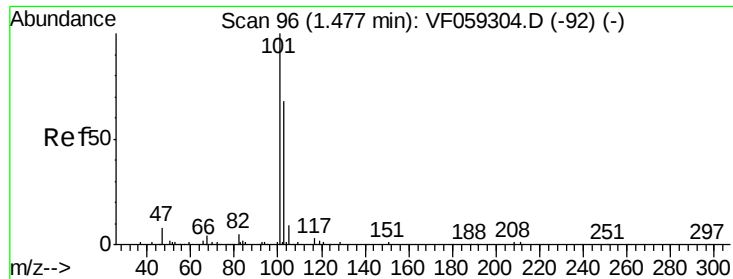
Tgt Ion: 64 Resp: 38298

Ion Ratio Lower Upper

64 100

66 31.1 23.9 35.9





#7

Trichlorofluoromethane

Concen: 17.078 ug/l

RT: 1.47 min Scan# 95

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

Instrument :

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ClientSampleId :

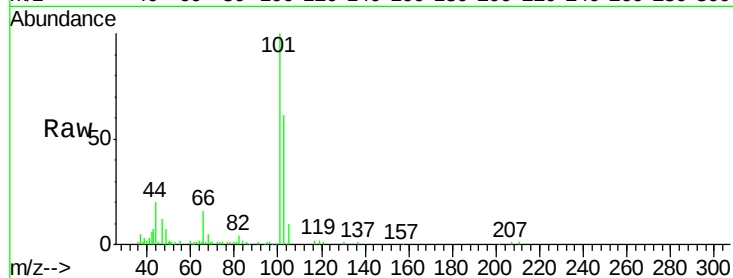
WP021SB476-25-27-180619MSD

Tot Ion:101 Resp: 55231

Ion Ratio Lower Upper

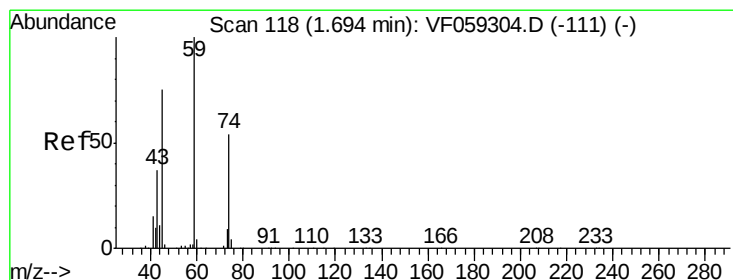
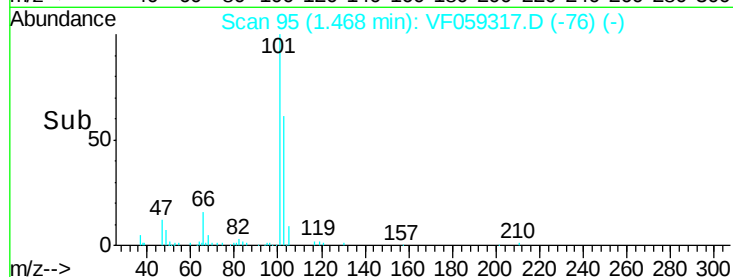
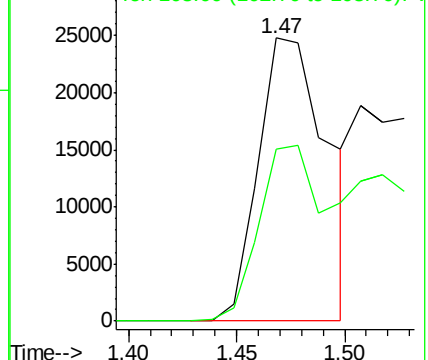
101 100

103 60.6 54.2 81.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 44.929 ug/l

RT: 1.69 min Scan# 117

Delta R.T. -0.01 min

Lab File: VF059317.D

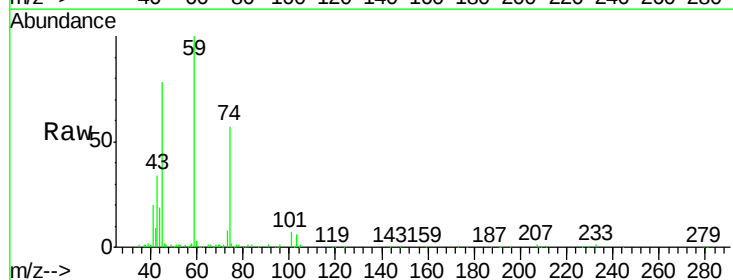
Acq: 26 Jun 2018 15:22

Tgt Ion: 74 Resp: 37257

Ion Ratio Lower Upper

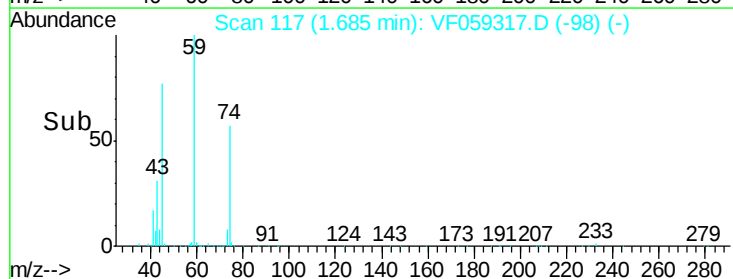
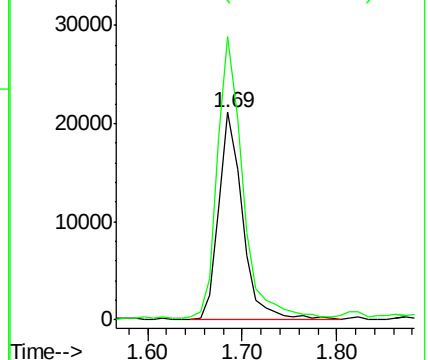
74 100

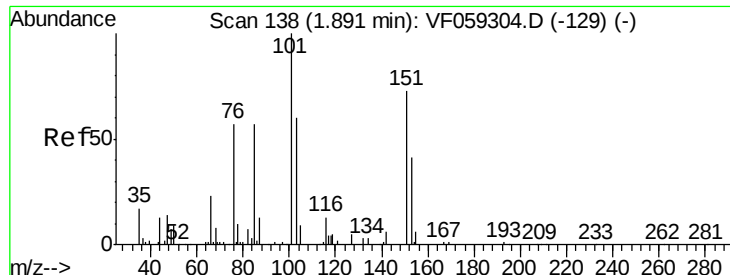
45 136.4 70.0 210.0



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.176 ug/l

RT: 1.88 min Scan# 137

Delta R.T. -0.01 min

Lab File: VF059317.D

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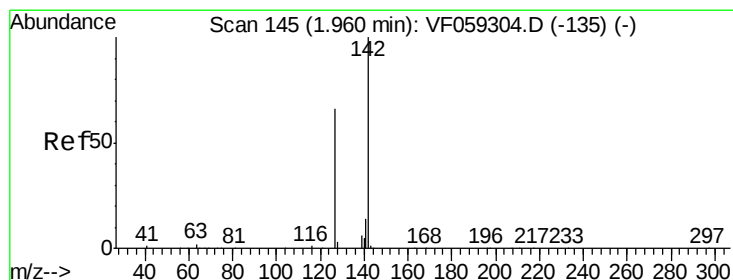
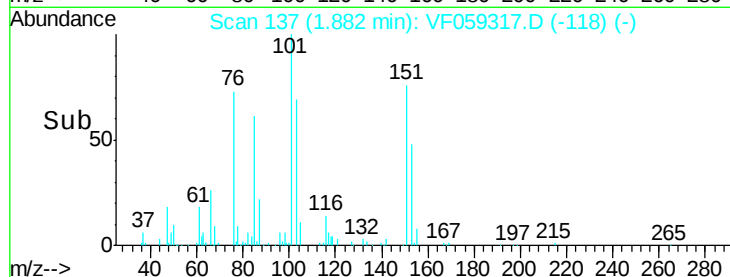
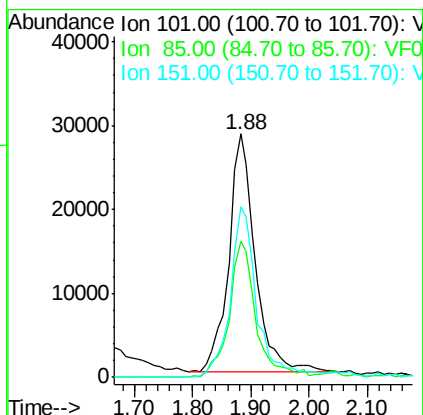
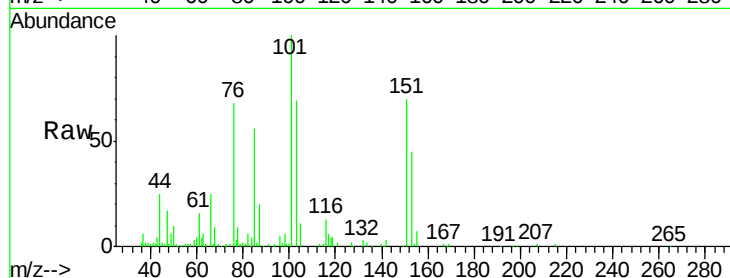
Tot Ion:101 Resp: 89059

Ion Ratio Lower Upper

101 100

85 55.8 44.5 66.7

151 70.3 56.8 85.2



#10

Methyl Iodide

Concen: 46.575 ug/l

RT: 1.95 min Scan# 144

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

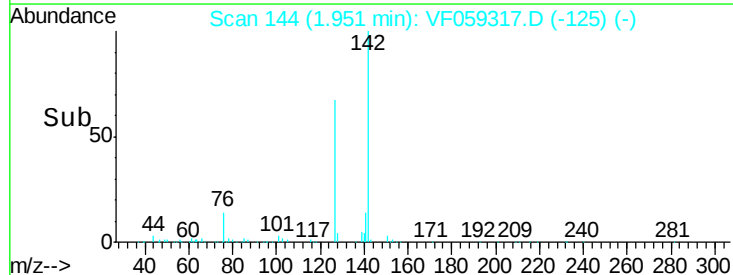
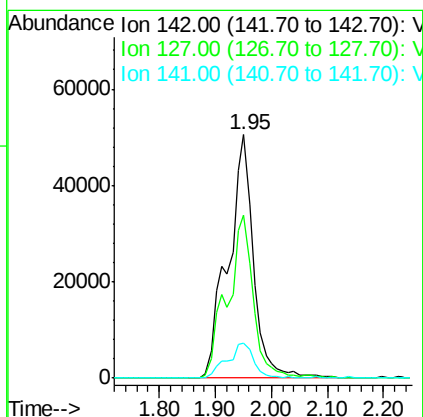
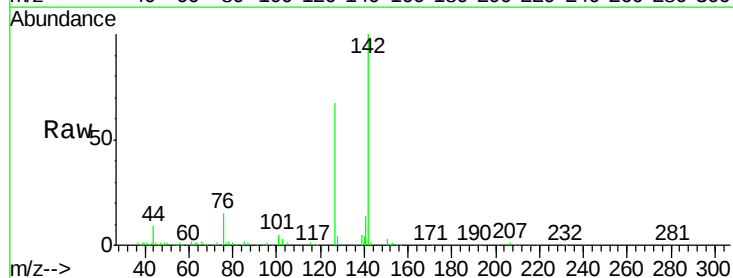
Tgt Ion:142 Resp: 160335

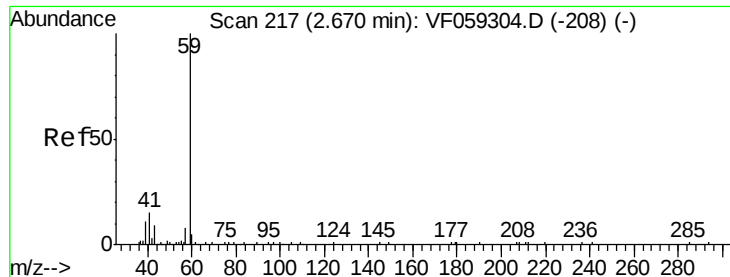
Ion Ratio Lower Upper

142 100

127 66.8 52.5 78.7

141 14.1 11.5 17.3



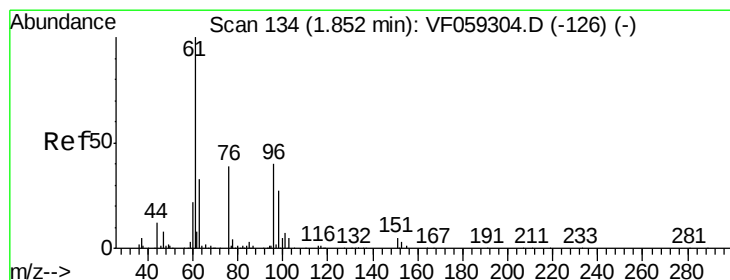
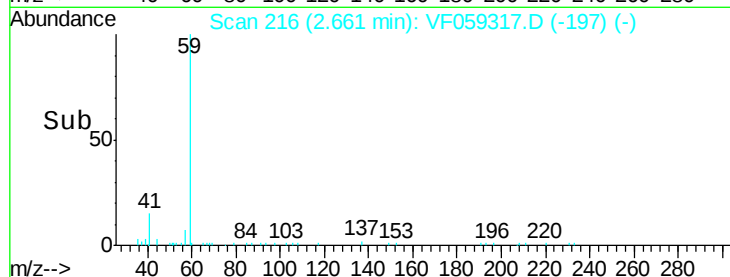
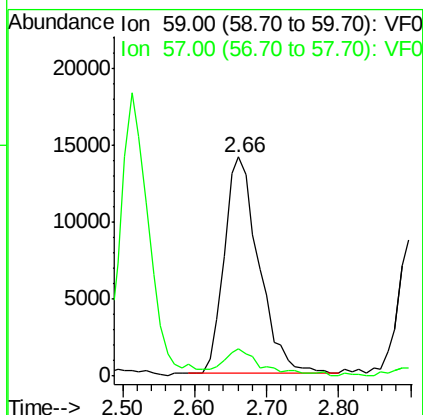
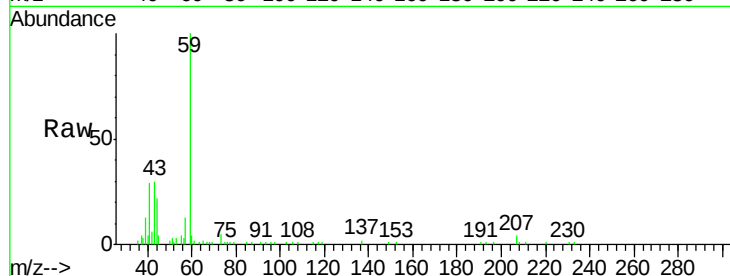


#11

Tert butyl alcohol
Concen: 202.180 ug/l
RT: 2.66 min Scan# 216
Delta R.T. -0.01 min
Lab File: VF059317.D
Acq: 26 Jun 2018 15:22

Instrument :
MSVOA_F
ClientSampleId :
WP021SB476-25-27-180619MSD

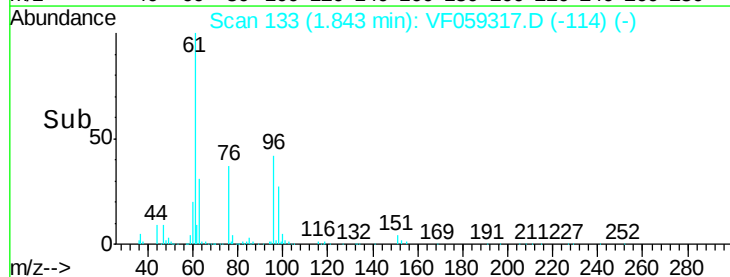
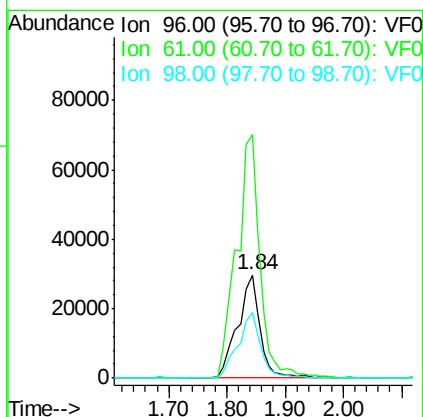
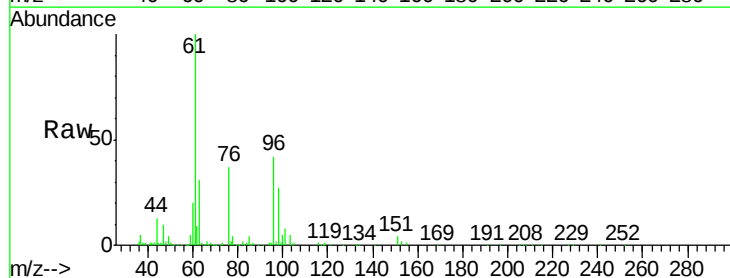
Tot Ion: 59 Resp: 47074
Ion Ratio Lower Upper
59 100
57 12.6 11.0 16.4

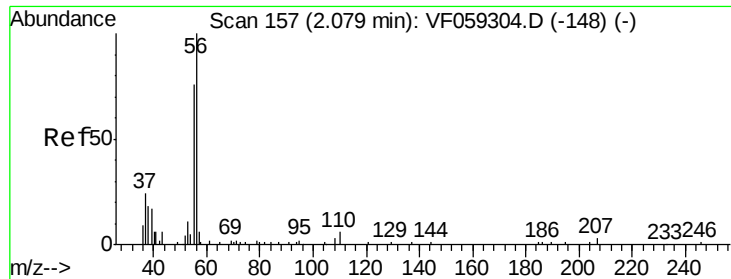


#12

1,1-Dichloroethene
Concen: 50.117 ug/l
RT: 1.84 min Scan# 133
Delta R.T. -0.01 min
Lab File: VF059317.D
Acq: 26 Jun 2018 15:22

Tgt Ion: 96 Resp: 79983
Ion Ratio Lower Upper
96 100
61 236.8 201.1 301.7
98 64.3 53.9 80.9





#13

Acrolein

Concen: 170.309 ug/l

RT: 2.07 min Scan# 156

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

Instrument :

MSVOA_F

ClientSampleId :

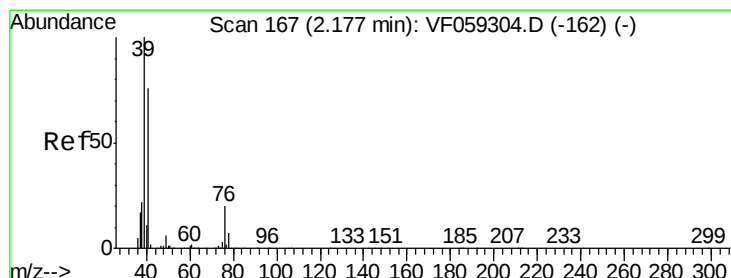
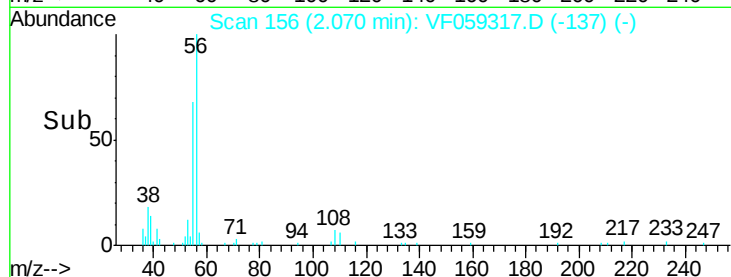
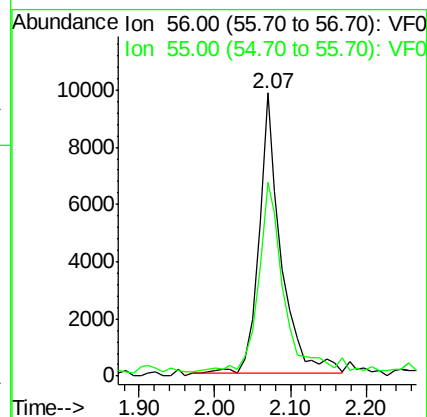
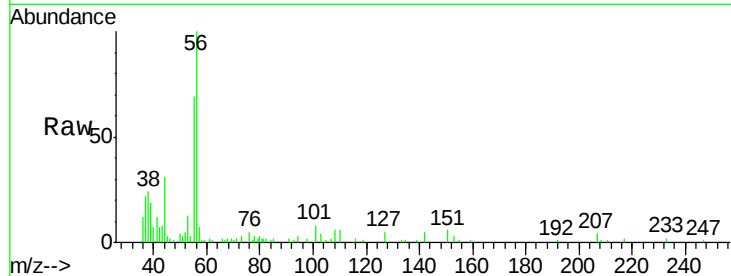
WP021SB476-25-27-180619MSD

Tot Ion: 56 Resp: 19592

Ion Ratio Lower Upper

56 100

55 68.5 62.4 93.6



#14

Allyl chloride

Concen: 48.071 ug/l

RT: 2.17 min Scan# 166

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

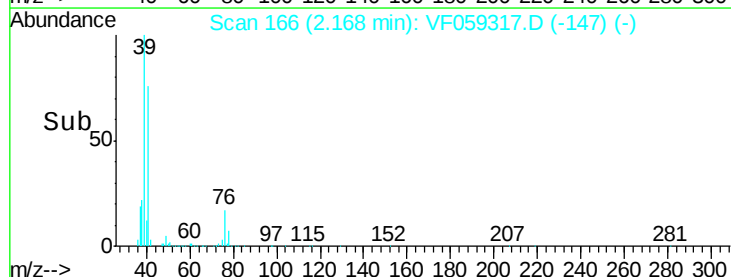
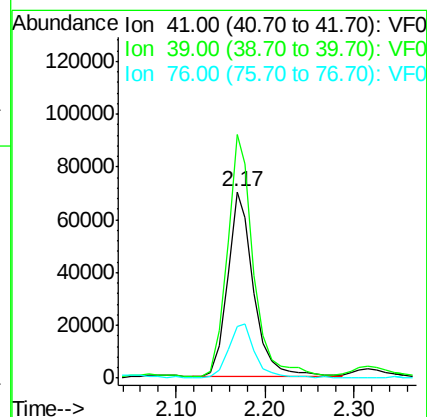
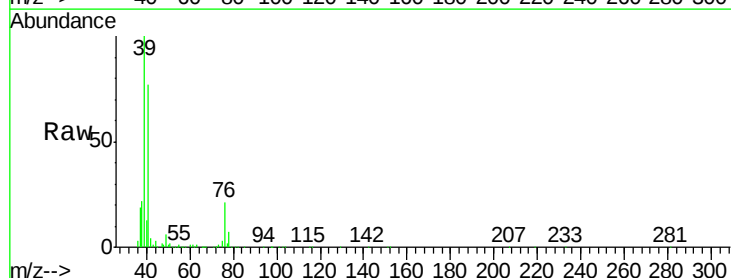
Tgt Ion: 41 Resp: 144013

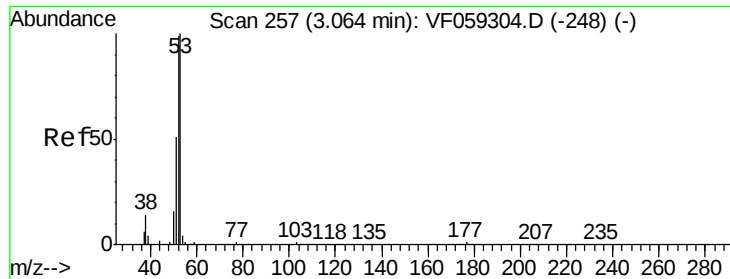
Ion Ratio Lower Upper

41 100

39 130.6 105.6 158.4

76 27.8 21.6 32.4





#15

Acrylonitrile

Concen: 243.619 ug/l

RT: 3.06 min Scan# 256

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

Instrument :

MSVOA_F

ClientSampleId :

WP021SB476-25-27-180619MSD

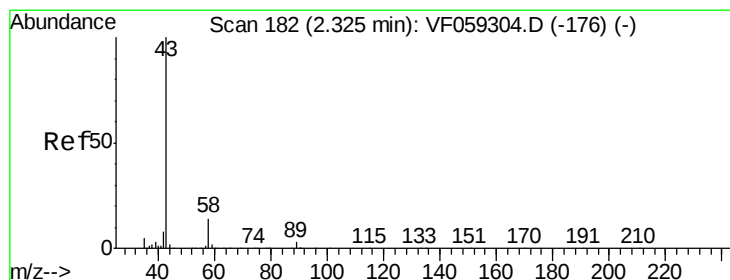
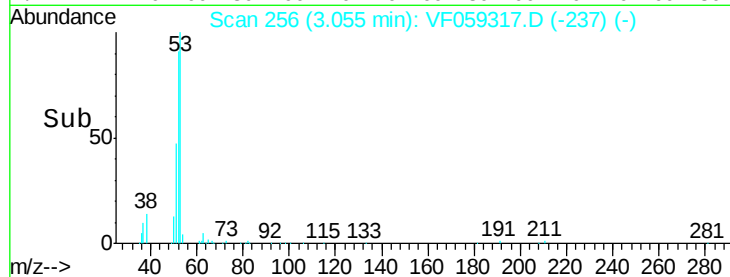
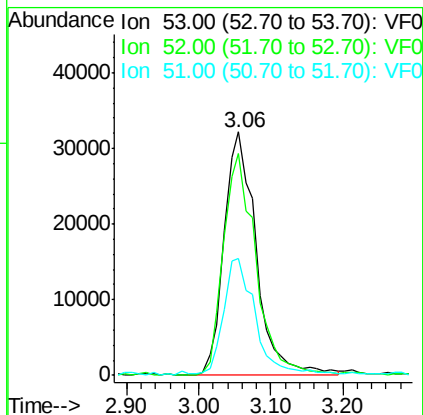
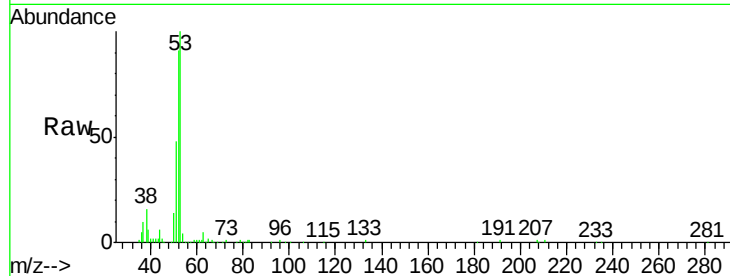
Tot Ion: 53 Resp: 99887

Ion Ratio Lower Upper

53 100

52 91.1 79.2 118.8

51 48.0 40.9 61.3



#16

Acetone

Concen: 299.777 ug/l

RT: 2.32 min Scan# 181

Delta R.T. -0.01 min

Lab File: VF059317.D

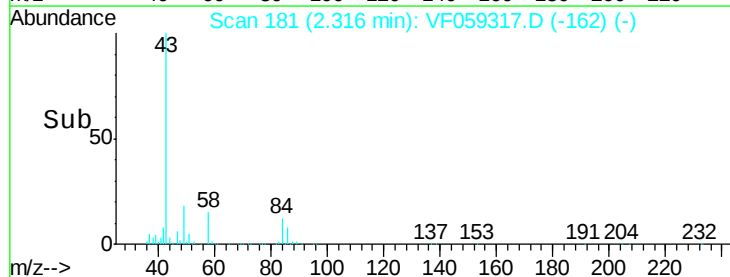
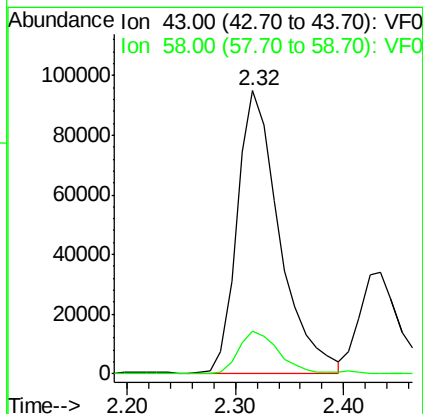
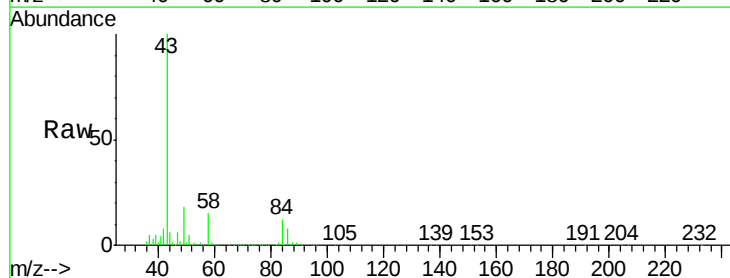
Acq: 26 Jun 2018 15:22

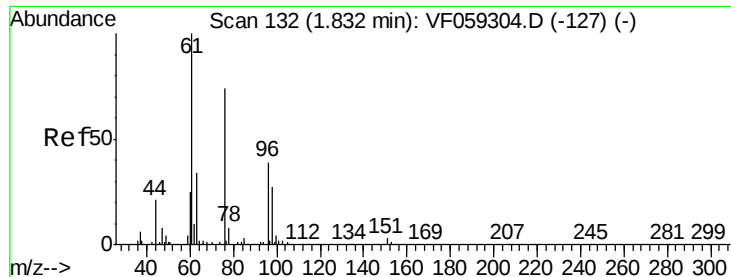
Tgt Ion: 43 Resp: 260068

Ion Ratio Lower Upper

43 100

58 15.0 11.4 17.0

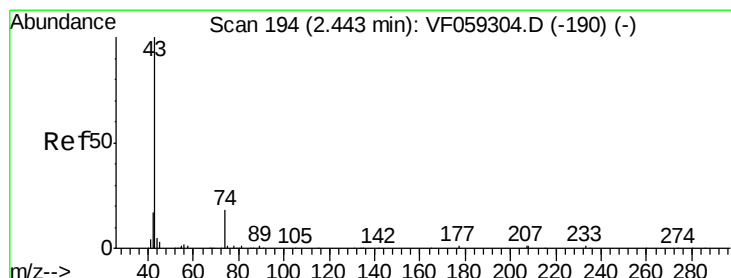
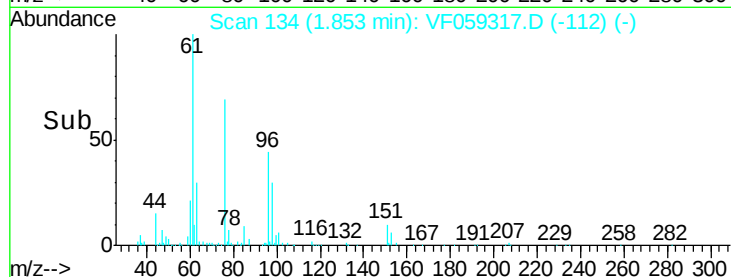
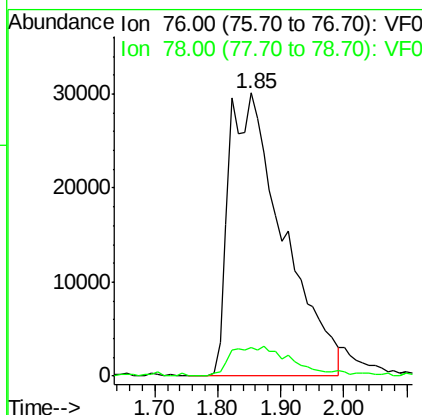
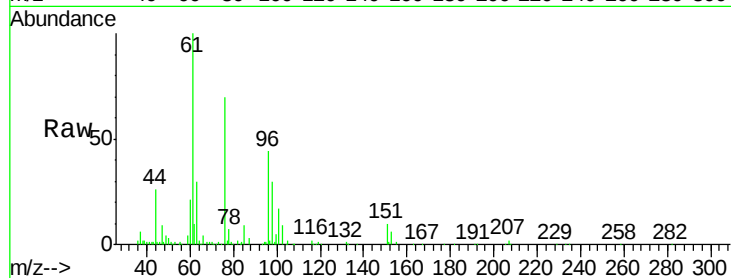




#17
Carbon Disulfide
Concen: 47.903 ug/l
RT: 1.85 min Scan# 134
Delta R.T. 0.02 min
Lab File: VF059317.D
Acq: 26 Jun 2018 15:22

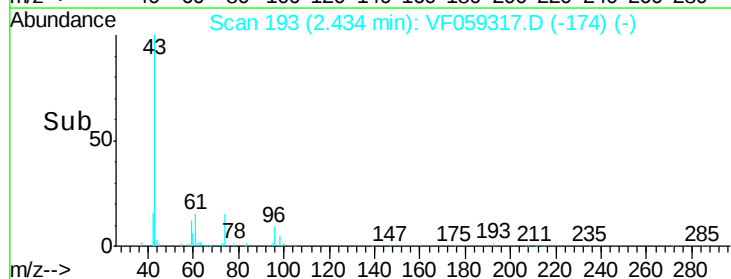
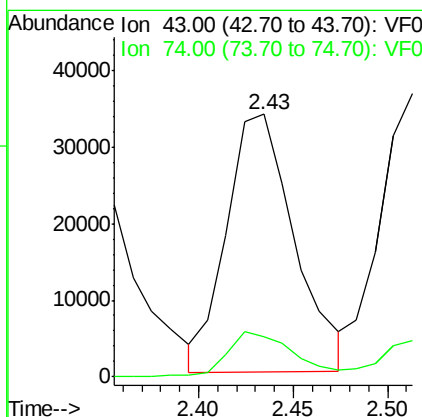
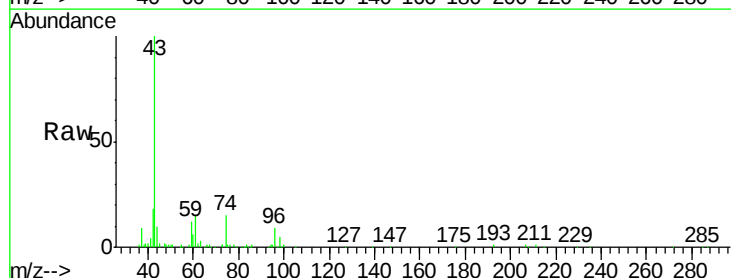
Instrument :
MSVOA_F
ClientSampleId :
WP021SB476-25-27-180619MSD

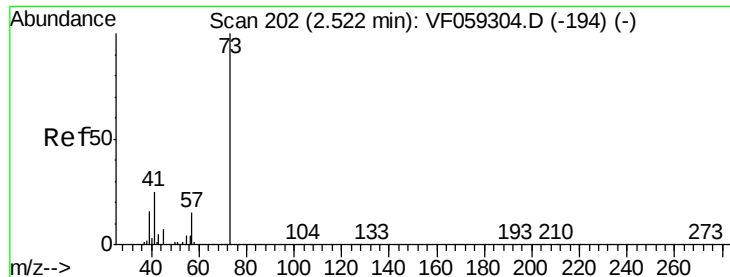
Tot Ion: 76 Resp: 179832
Ion Ratio Lower Upper
76 100
78 10.0 8.9 13.3



#18
Methyl Acetate
Concen: 53.325 ug/l
RT: 2.43 min Scan# 193
Delta R.T. -0.01 min
Lab File: VF059317.D
Acq: 26 Jun 2018 15:22

Tgt Ion: 43 Resp: 84054
Ion Ratio Lower Upper
43 100
74 15.1 13.3 19.9

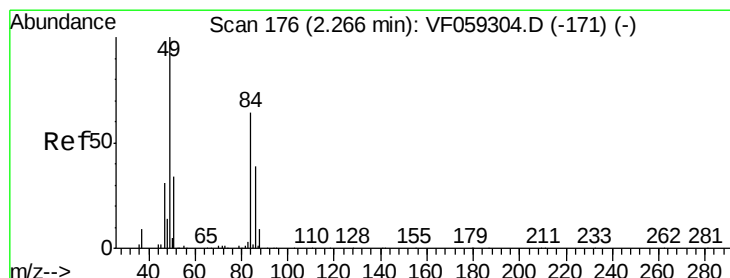
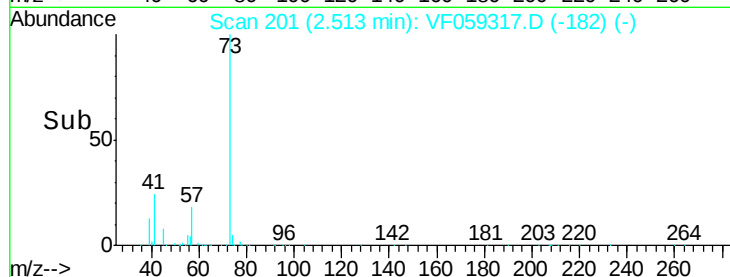
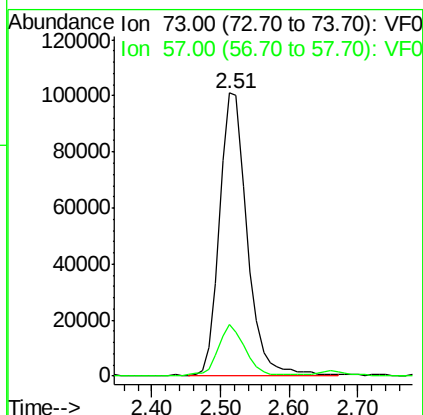
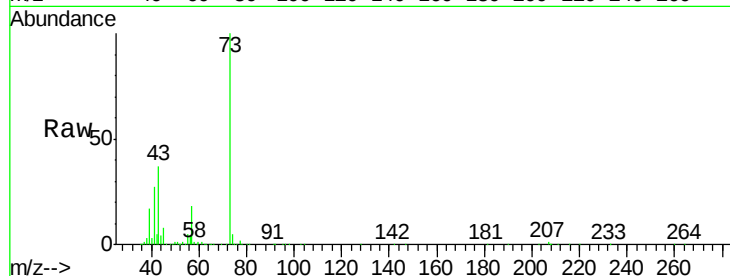




#19
Methvl tert-butvl Ether
Concen: 47.458 ug/l
RT: 2.51 min Scan# 201
Delta R.T. -0.01 min
Lab File: VF059317.D
Acq: 26 Jun 2018 15:22

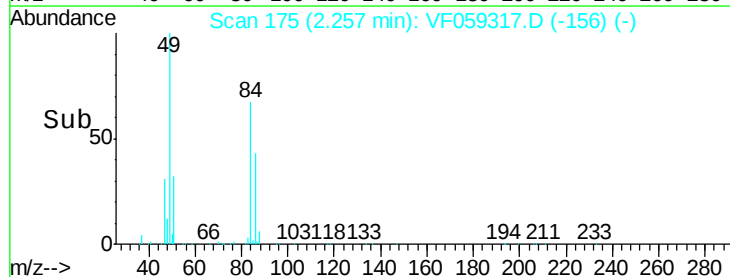
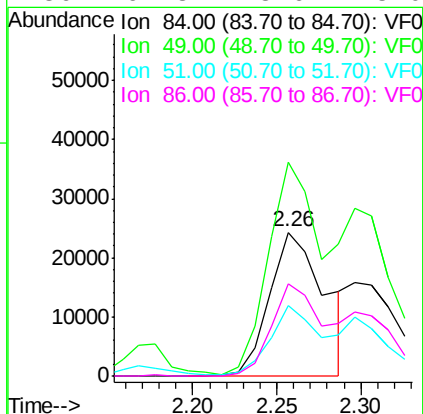
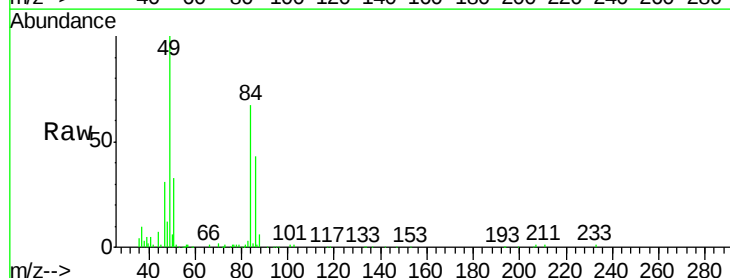
Instrument :
MSVOA_F
ClientSampleId :
WP021SB476-25-27-180619MSD

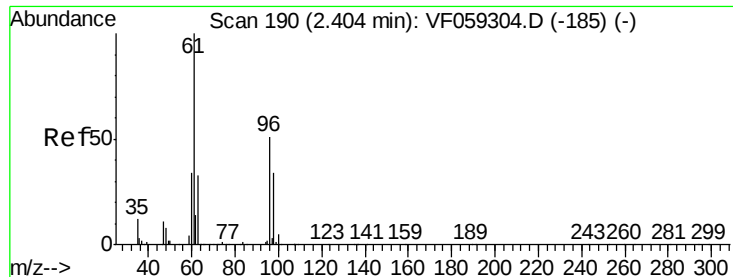
Tot Ion: 73 Resp: 282508
Ion Ratio Lower Upper
73 100
57 18.2 12.3 18.5



#20
Methylene Chloride
Concen: 24.529 ug/l
RT: 2.26 min Scan# 175
Delta R.T. -0.01 min
Lab File: VF059317.D
Acq: 26 Jun 2018 15:22

Tgt Ion: 84 Resp: 55493
Ion Ratio Lower Upper
84 100
49 148.9 126.5 189.7
51 48.8 42.9 64.3
86 64.3 48.6 73.0





#21

trans-1,2-Dichloroethene

Concen: 48.367 ug/l

RT: 2.39 min Scan# 189

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

Instrument :

MSVOA_F

ClientSampleId :

WP021SB476-25-27-180619MSD

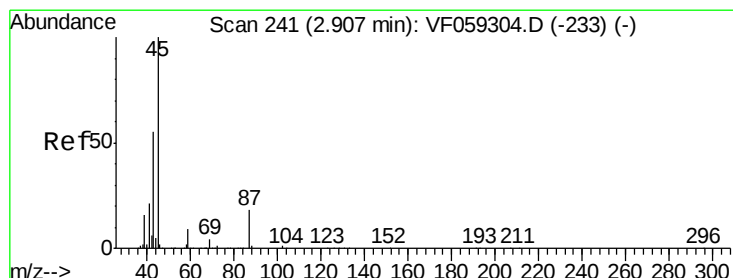
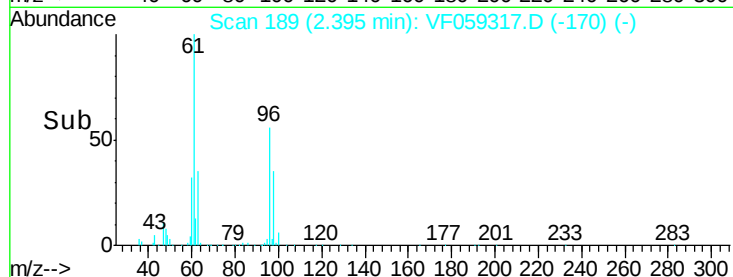
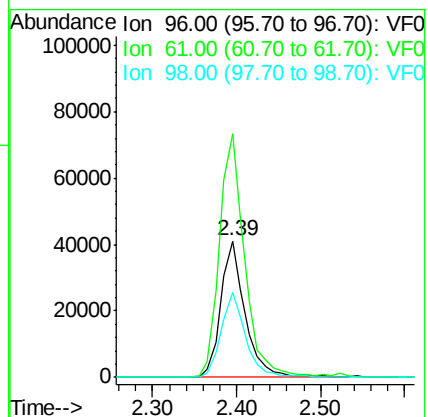
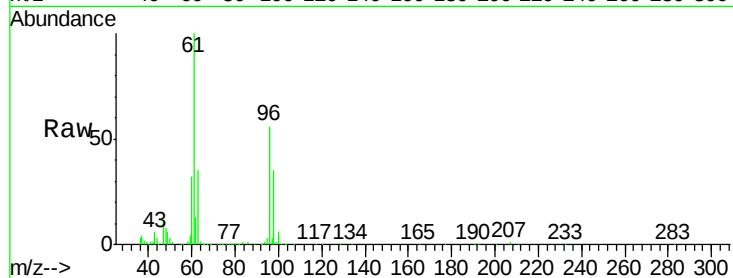
Tot Ion: 96 Resp: 82341

Ion Ratio Lower Upper

96 100

61 178.8 157.4 236.2

98 62.0 53.7 80.5



#22

Diisopropyl ether

Concen: 46.001 ug/l

RT: 2.91 min Scan# 241

Delta R.T. 0.00 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

Tgt Ion: 45 Resp: 305171

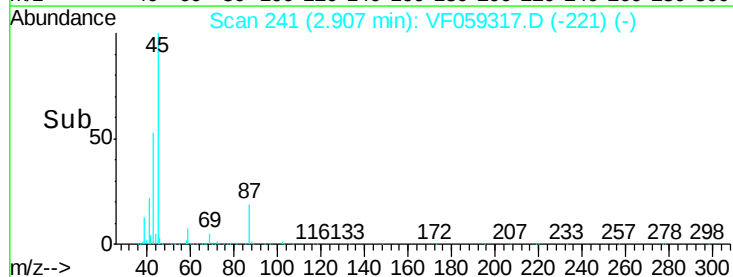
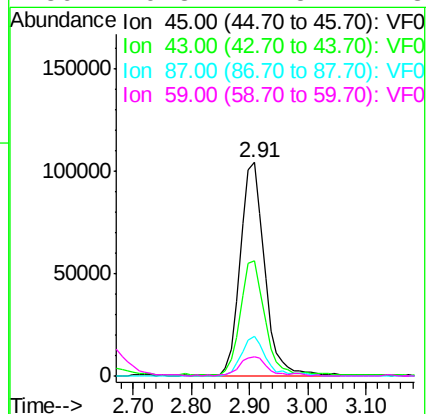
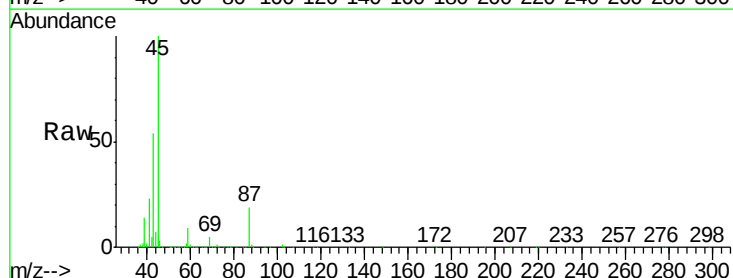
Ion Ratio Lower Upper

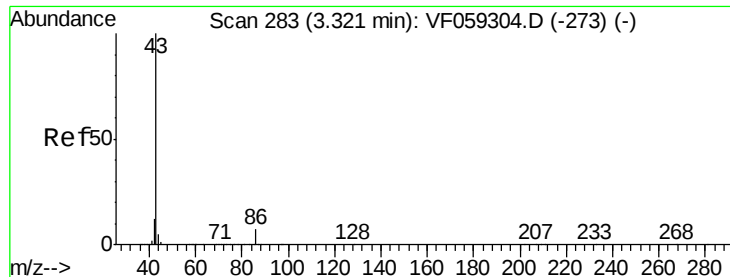
45 100

43 54.1 44.6 66.8

87 18.5 14.3 21.5

59 9.3 7.5 11.3





#23

Vinyl Acetate

Concen: 214.318 ug/l

RT: 3.31 min Scan# 282

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

Instrument :

MSVOA_F

ClientSampleId :

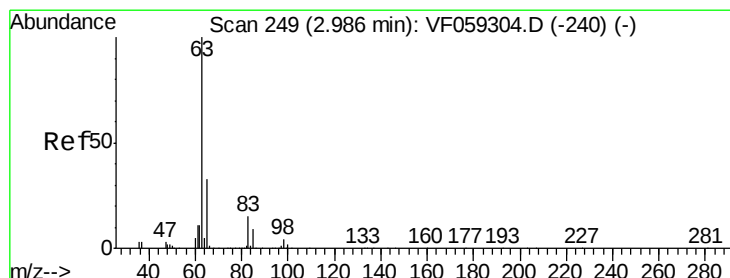
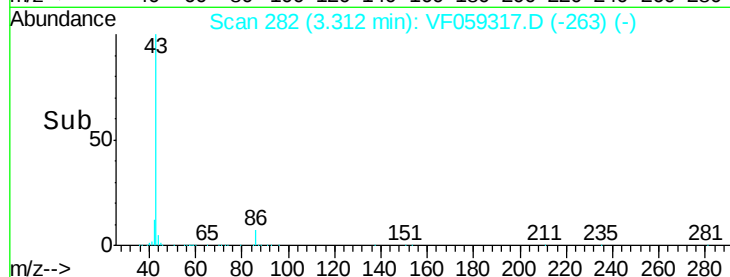
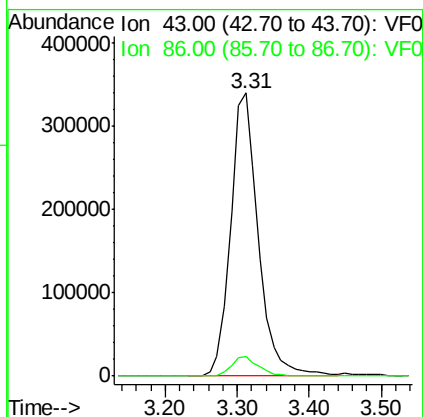
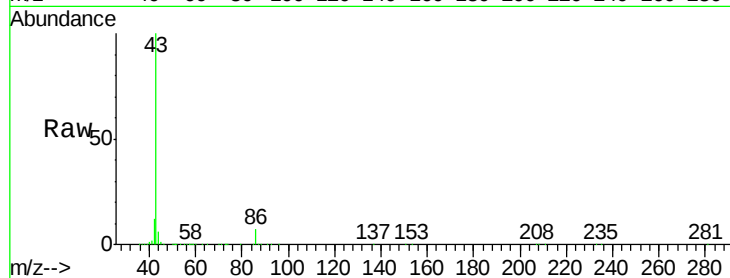
WP021SB476-25-27-180619MSD

Tot Ion: 43 Resp: 905477

Ion Ratio Lower Upper

43 100

86 6.8 5.8 8.6



#24

1,1-Dichloroethane

Concen: 47.460 ug/l

RT: 2.98 min Scan# 248

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

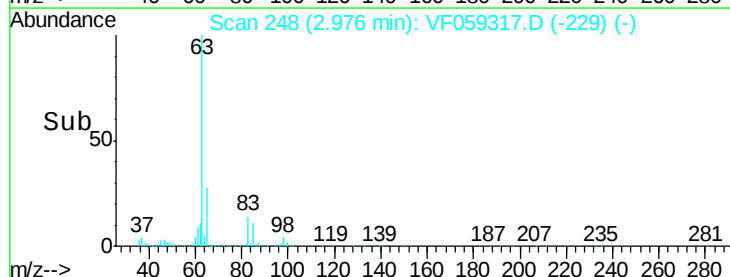
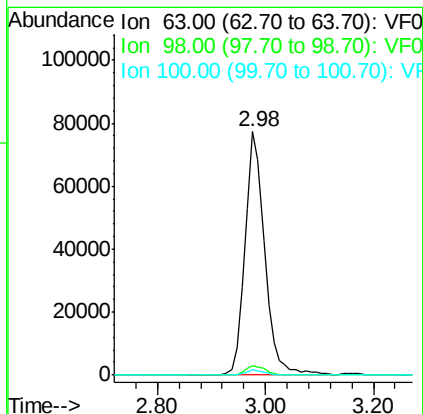
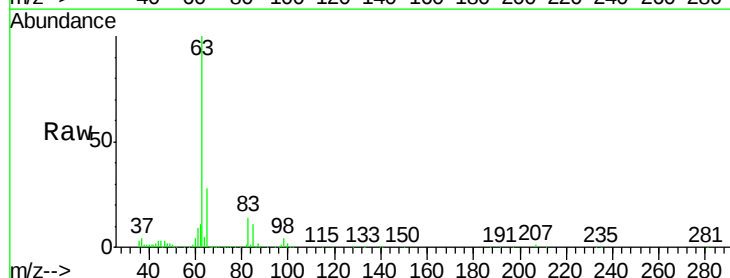
Tgt Ion: 63 Resp: 195209

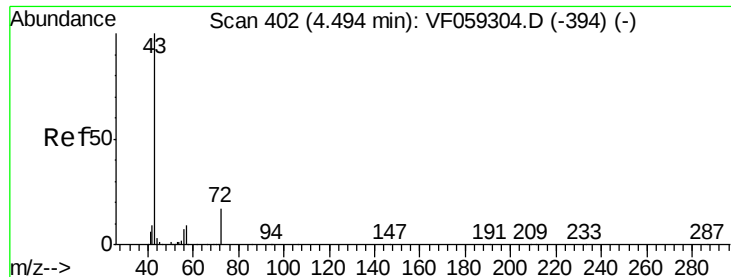
Ion Ratio Lower Upper

63 100

98 3.9 2.0 6.0

100 2.4 1.3 3.9





#25

2-Butanone

Concen: 246.208 ug/l

RT: 4.47 min Scan# 400

Delta R.T. -0.02 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

Instrument :

MSVOA_F

ClientSampleId :

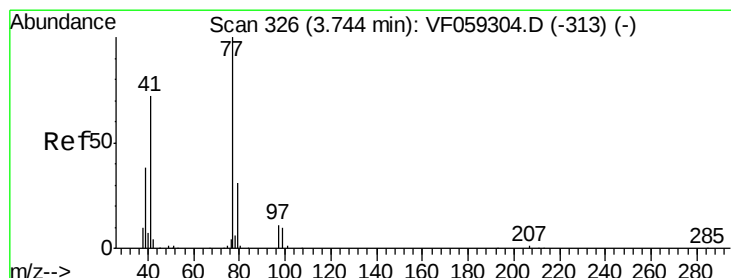
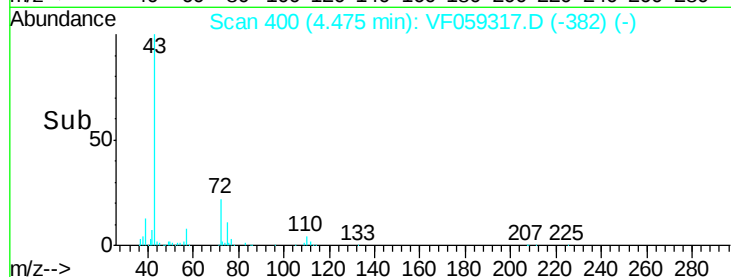
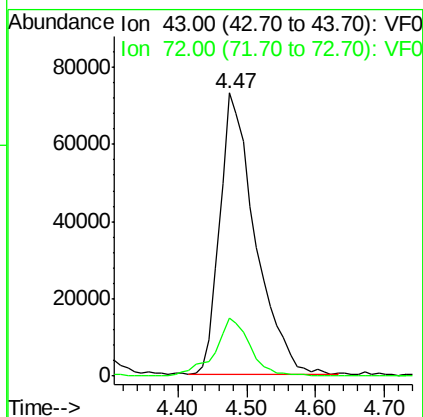
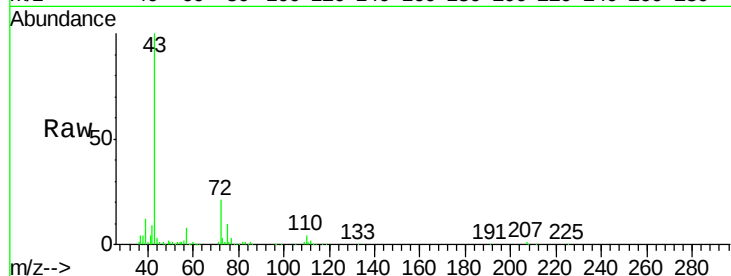
WP021SB476-25-27-180619MSD

Tot Ion: 43 Resp: 260529

Ion Ratio Lower Upper

43 100

72 20.7 14.4 21.6



#26

2,2-Dichloropropane

Concen: 48.788 ug/l

RT: 3.74 min Scan# 325

Delta R.T. -0.01 min

Lab File: VF059317.D

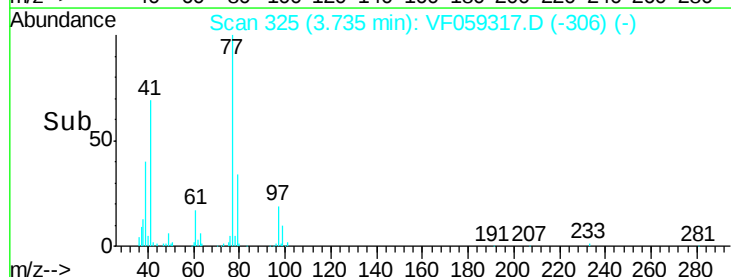
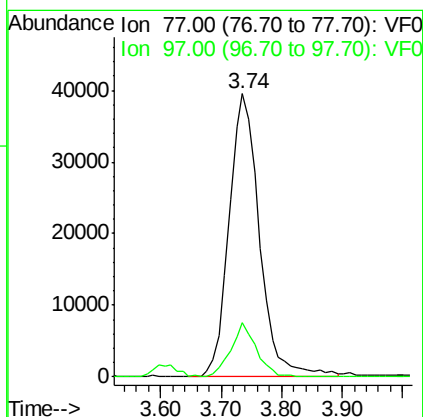
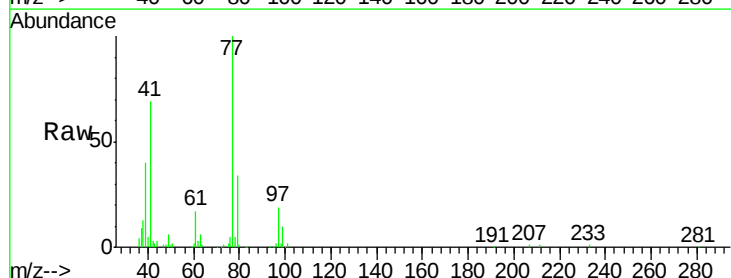
Acq: 26 Jun 2018 15:22

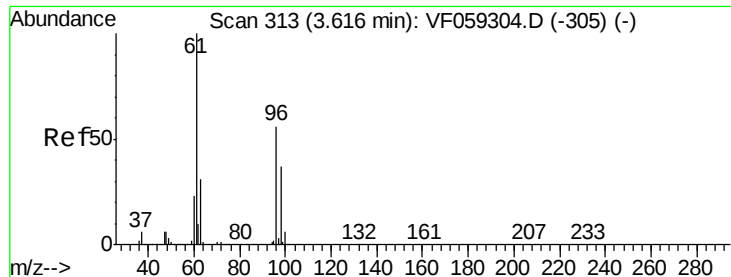
Tgt Ion: 77 Resp: 138408

Ion Ratio Lower Upper

77 100

97 19.1 8.0 23.8



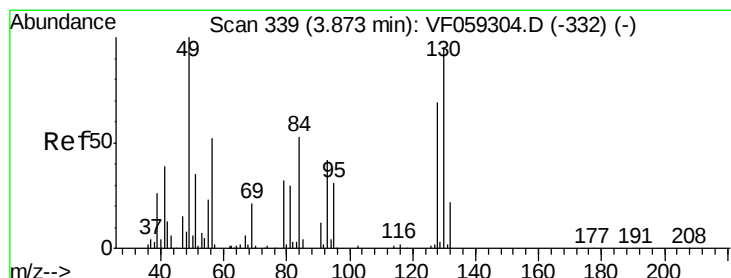
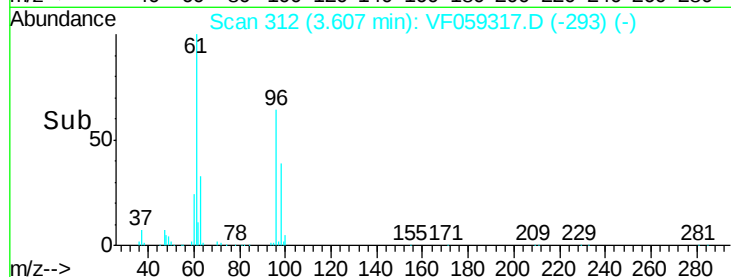
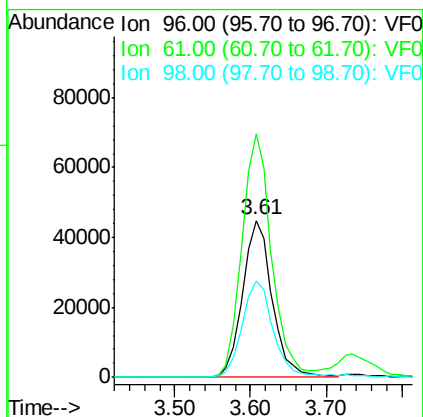
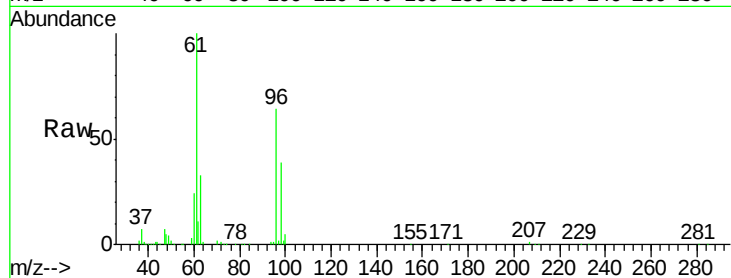


#27

cis-1,2-Dichloroethene
Concen: 47.268 ug/l
RT: 3.61 min Scan# 312
Delta R.T. -0.01 min
Lab File: VF059317.D
Acq: 26 Jun 2018 15:22

Instrument :
MSVOA_F
ClientSampleId :
WP021SB476-25-27-180619MSD

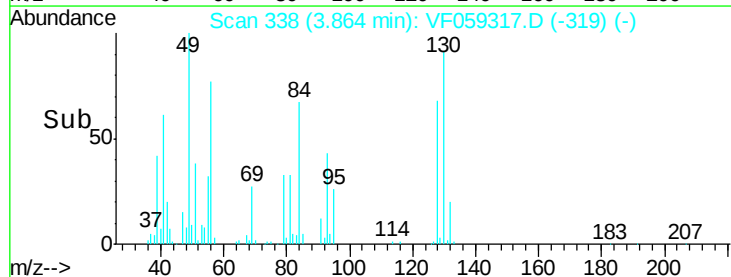
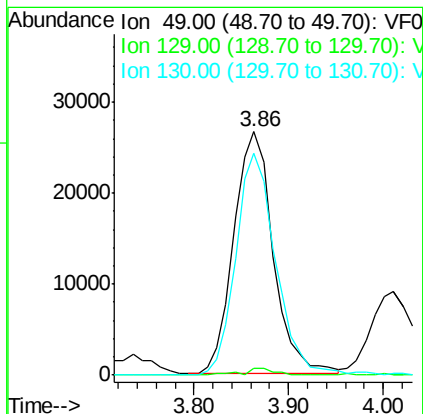
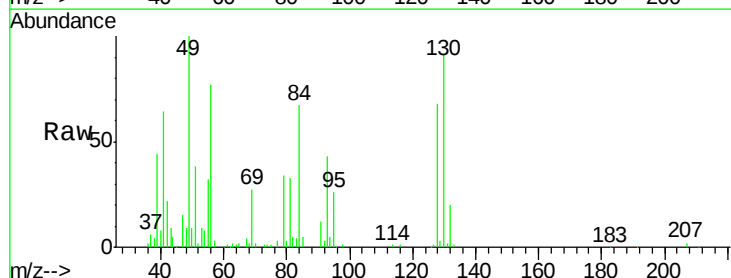
Tot Ion	Ratio	Lower	Upper
96	100		
61	155.1	0.0	355.4
98	61.1	0.0	131.0

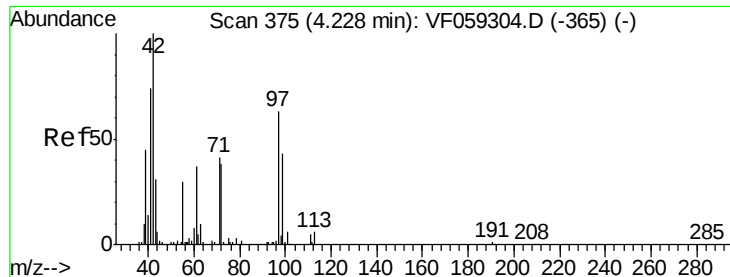


#28

Bromochloromethane
Concen: 48.629 ug/l
RT: 3.86 min Scan# 338
Delta R.T. -0.01 min
Lab File: VF059317.D
Acq: 26 Jun 2018 15:22

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.9	0.0	6.4
130	91.1	75.1	112.7





#29

Tetrahydrofuran

Concen: 240.726 ug/l

RT: 4.23 min Scan# 375

Delta R.T. 0.00 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

Instrument :

MSVOA_F

ClientSampleId :

WP021SB476-25-27-180619MSD

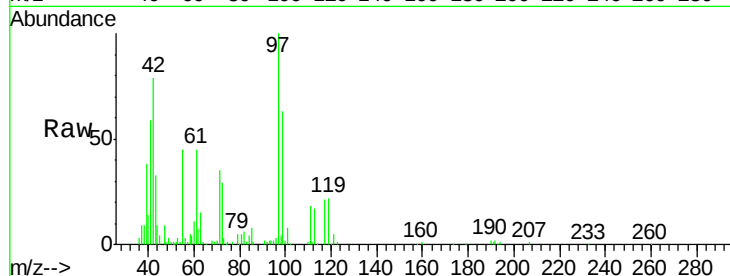
Tot Ion: 42 Resp: 108434

Ion Ratio Lower Upper

42 100

72 38.7 30.5 45.7

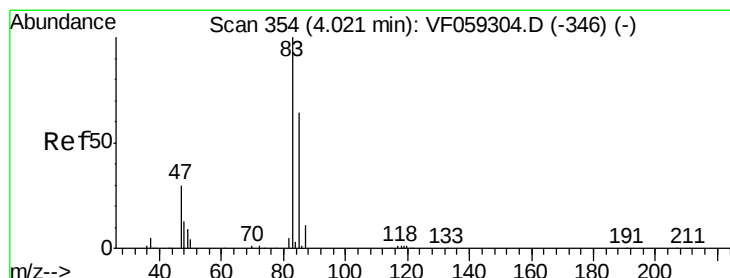
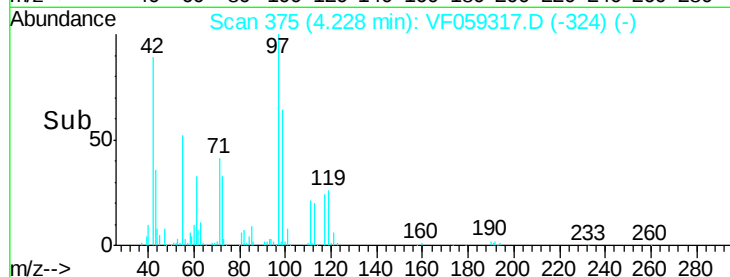
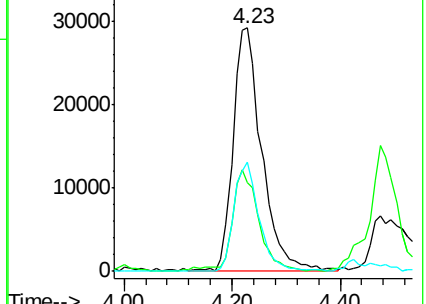
71 39.4 32.5 48.7



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: 46.225 ug/l

RT: 4.01 min Scan# 353

Delta R.T. -0.01 min

Lab File: VF059317.D

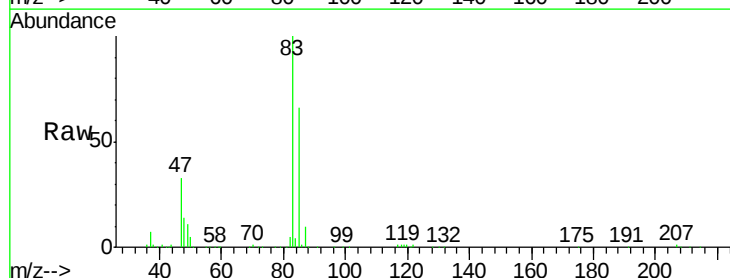
Acq: 26 Jun 2018 15:22

Tgt Ion: 83 Resp: 275245

Ion Ratio Lower Upper

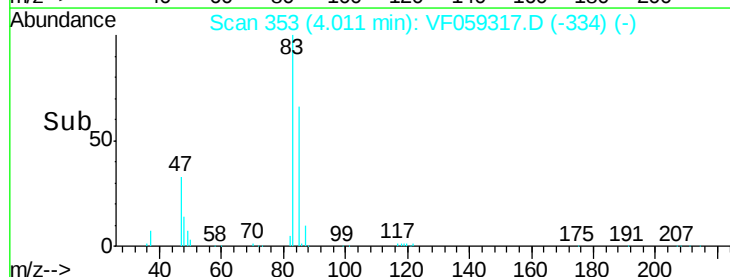
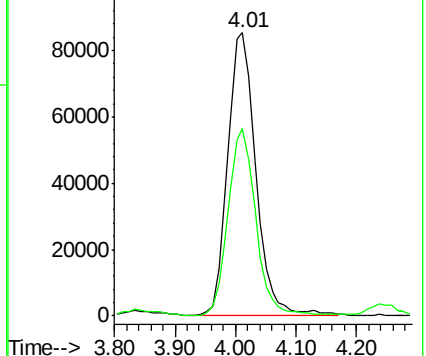
83 100

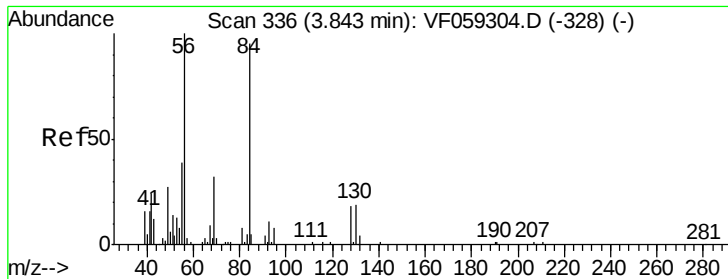
85 66.4 51.3 76.9



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0





#31

Cyclohexane

Concen: 48.576 ug/l

RT: 3.84 min Scan# 336

Delta R.T. 0.00 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

Instrument :

MSVOA_F

ClientSampleId :

WP021SB476-25-27-180619MSD

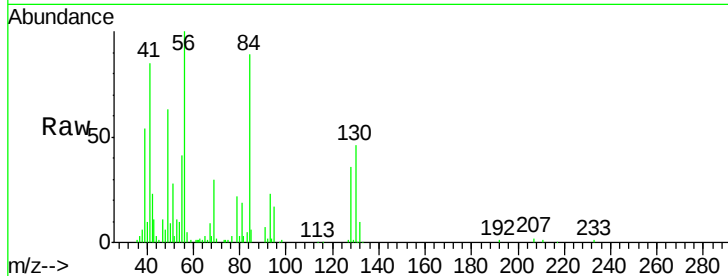
Tot Ion: 56 Resp: 130889

Ion Ratio Lower Upper

56 100

69 30.0 25.8 38.8

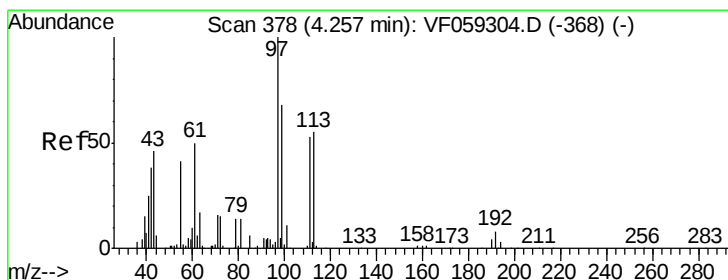
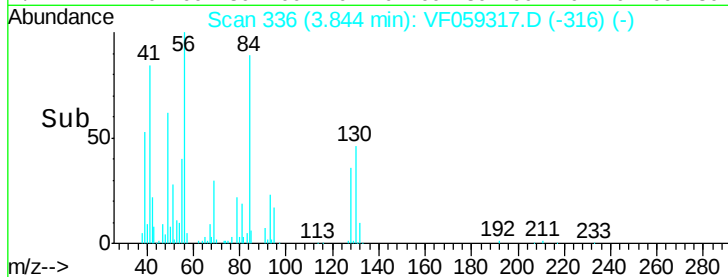
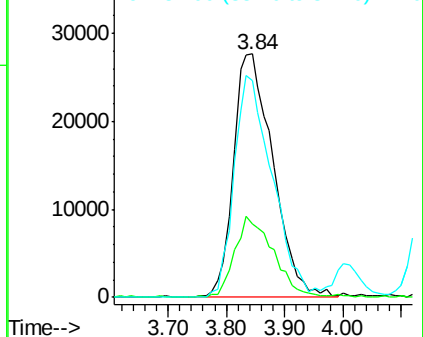
84 89.2 75.6 113.4



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: 47.998 ug/l

RT: 4.25 min Scan# 377

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

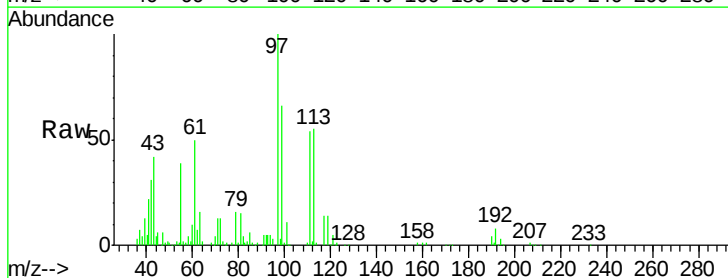
Tgt Ion: 97 Resp: 209147

Ion Ratio Lower Upper

97 100

99 65.9 54.1 81.1

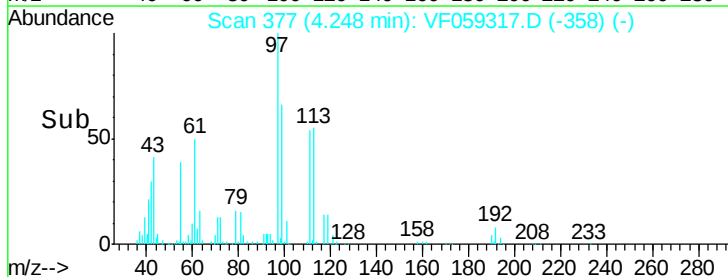
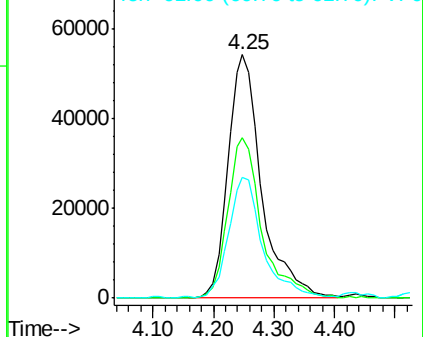
61 49.8 41.2 61.8

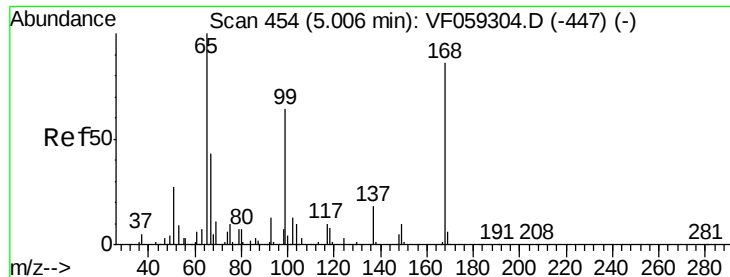


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 45.014 ug/l

RT: 5.00 min Scan# 453

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

Instrument :

MSVOA_F

ClientSampleId :

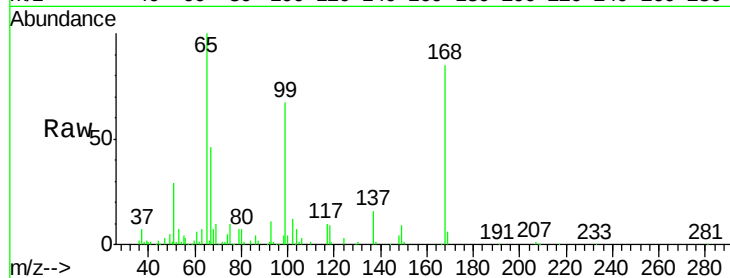
WP021SB476-25-27-180619MSD

Tot Ion: 65 Resp: 157431

Ion Ratio Lower Upper

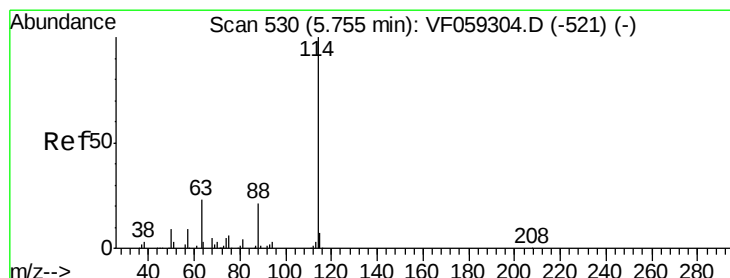
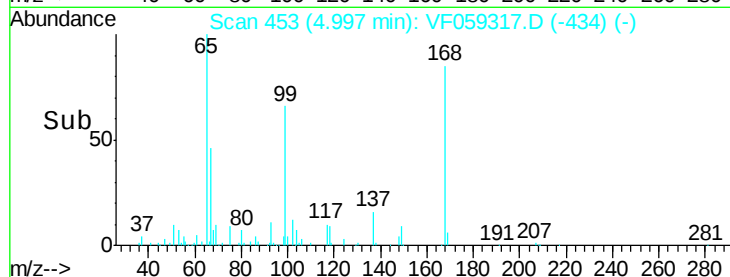
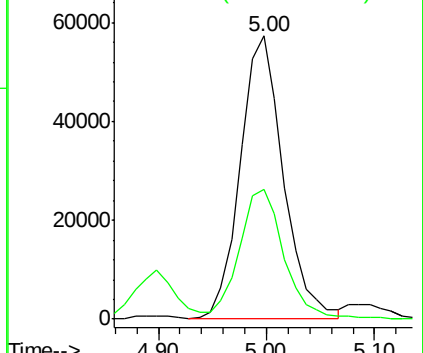
65 100

67 45.7 0.0 96.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.75 min Scan# 529

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

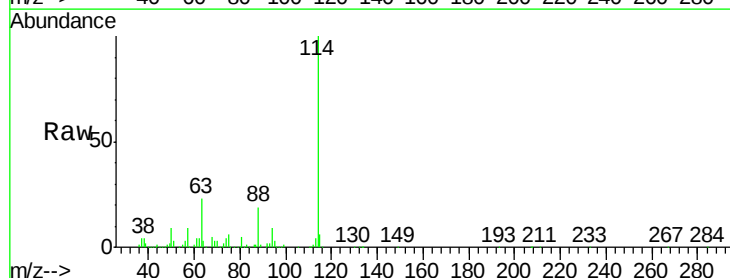
Tgt Ion: 114 Resp: 419693

Ion Ratio Lower Upper

114 100

63 22.6 0.0 45.8

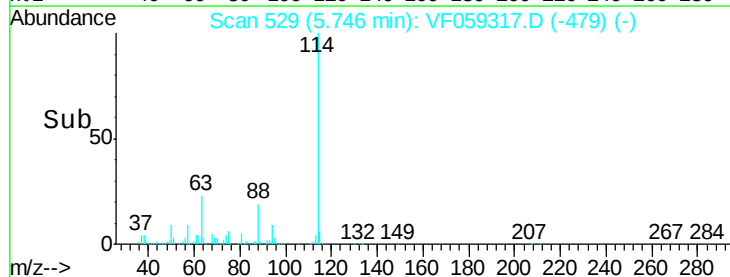
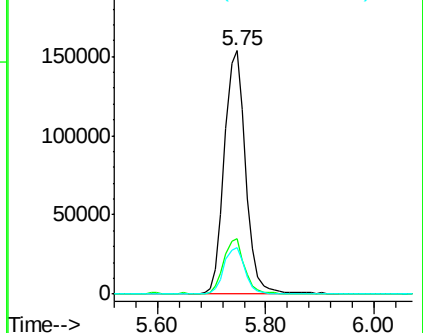
88 19.1 0.0 41.2

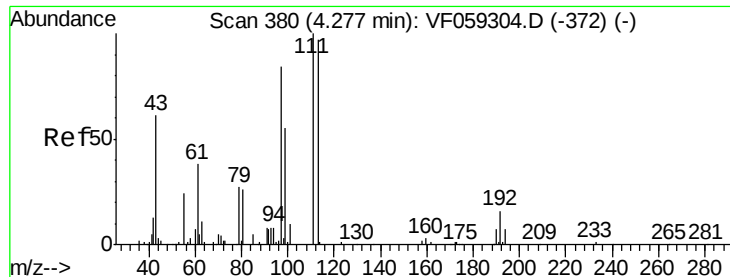


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#35

Dibromofluoromethane

Concen: 46.159 ug/l

RT: 4.27 min Scan# 379

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

Instrument :

MSVOA_F

ClientSampleId :

WP021SB476-25-27-180619MSD

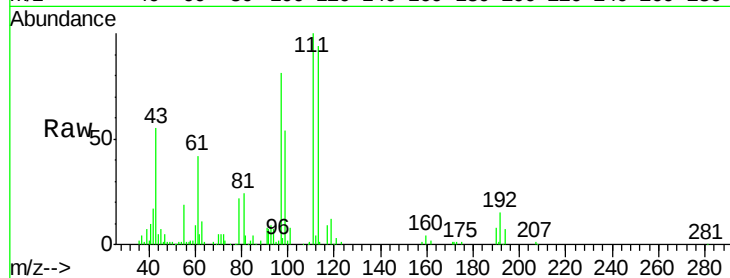
Tot Ion:113 Resp: 141550

Ion Ratio Lower Upper

113 100

111 105.9 82.1 123.1

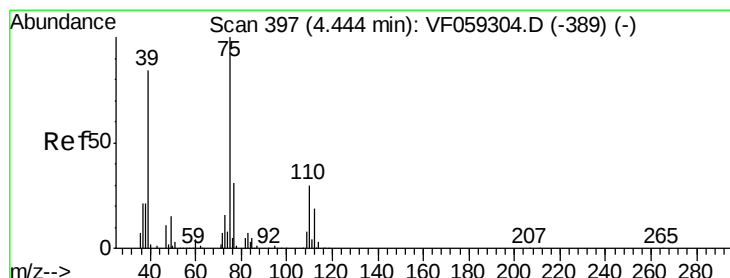
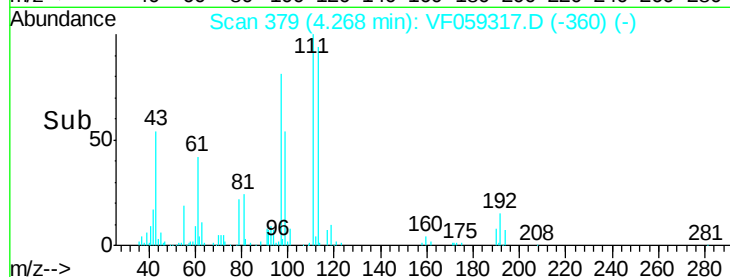
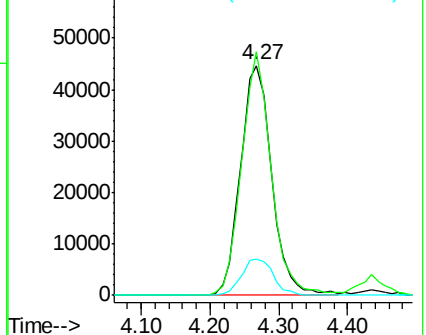
192 16.0 13.0 19.6



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 49.022 ug/l

RT: 4.44 min Scan# 396

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

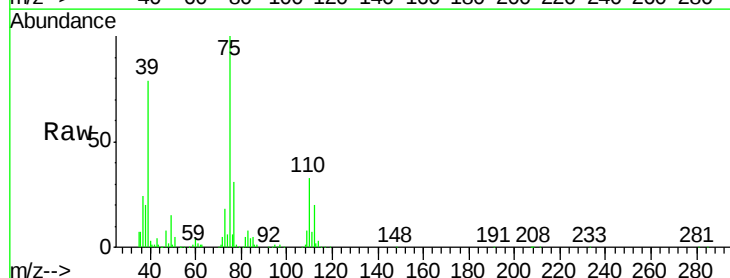
Tgt Ion: 75 Resp: 179733

Ion Ratio Lower Upper

75 100

110 32.7 14.8 44.4

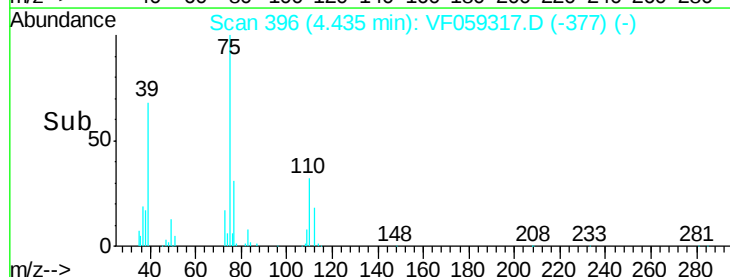
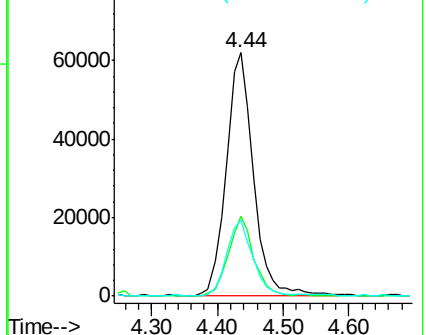
77 31.4 25.2 37.8

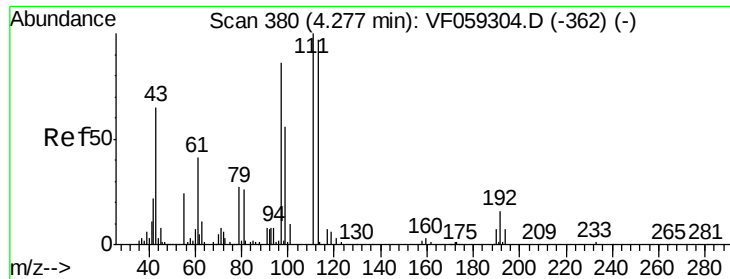


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0

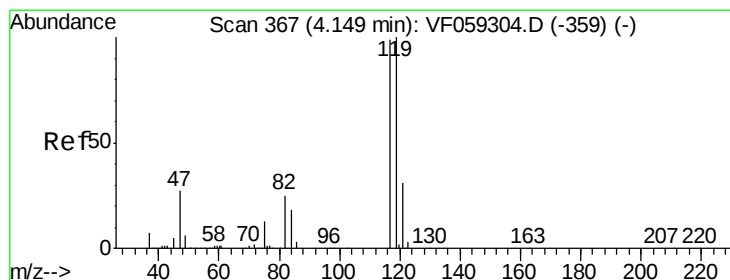
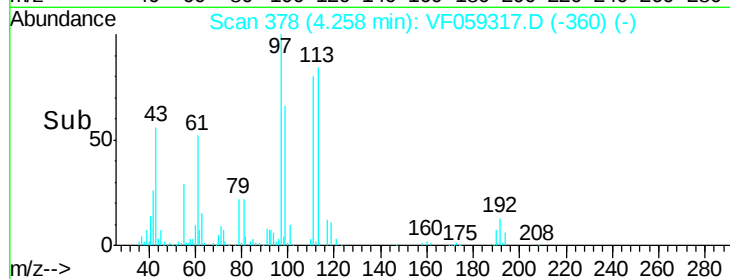
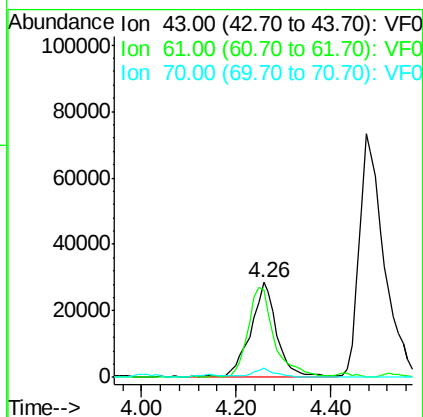
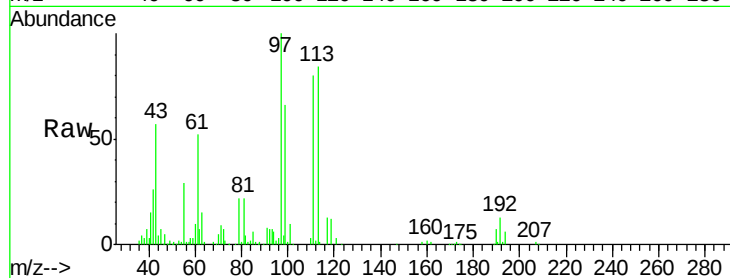




#37
Ethyl Acetate
Concen: 45.663 ug/l
RT: 4.26 min Scan# 378
Delta R.T. -0.02 min
Lab File: VF059317.D
Acq: 26 Jun 2018 15:22

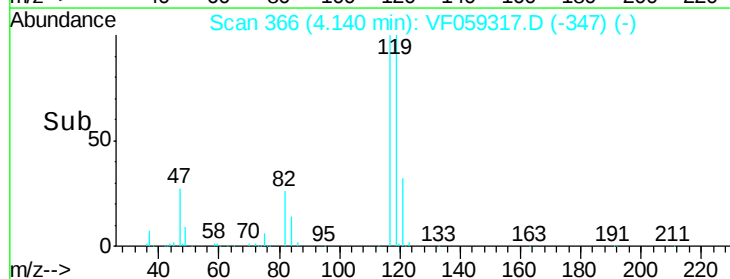
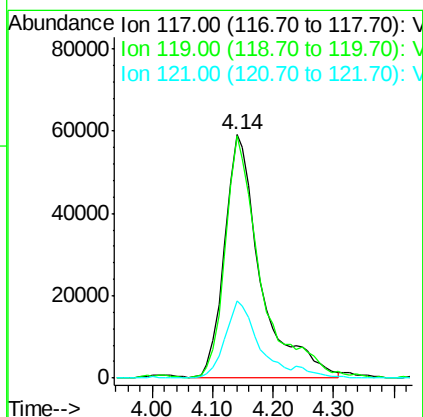
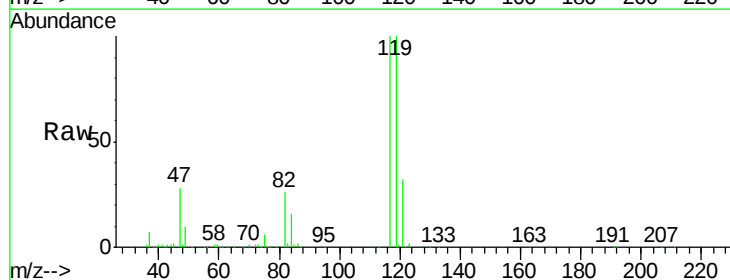
Instrument :
MSVOA_F
ClientSampleId :
WP021SB476-25-27-180619MSD

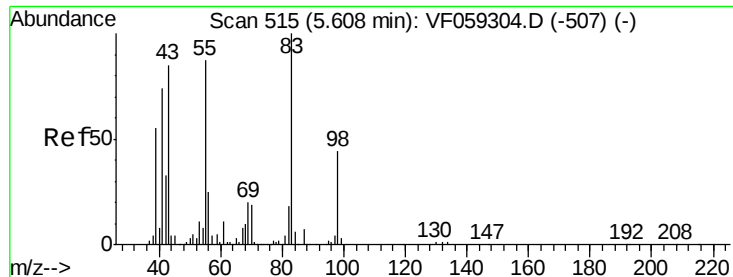
Tot Ion: 43 Resp: 107397
Ion Ratio Lower Upper
43 100
61 92.4 50.1 75.1#
70 9.6 6.2 9.4#



#38
Carbon Tetrachloride
Concen: 52.707 ug/l
RT: 4.14 min Scan# 366
Delta R.T. -0.01 min
Lab File: VF059317.D
Acq: 26 Jun 2018 15:22

Tgt Ion: 117 Resp: 243870
Ion Ratio Lower Upper
117 100
119 99.6 81.0 121.4
121 31.7 24.7 37.1

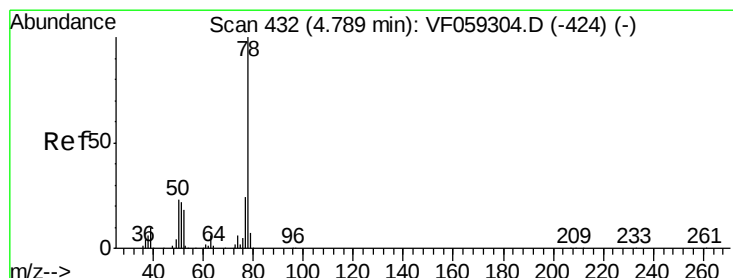
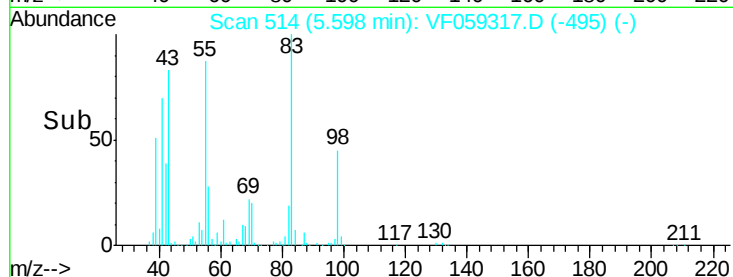
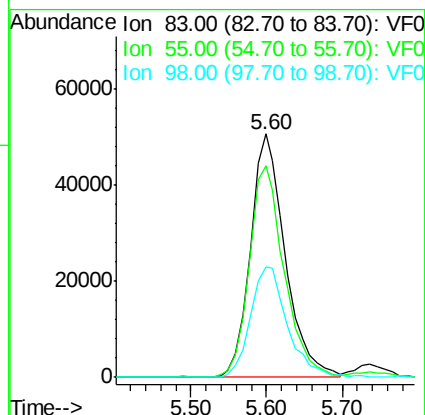
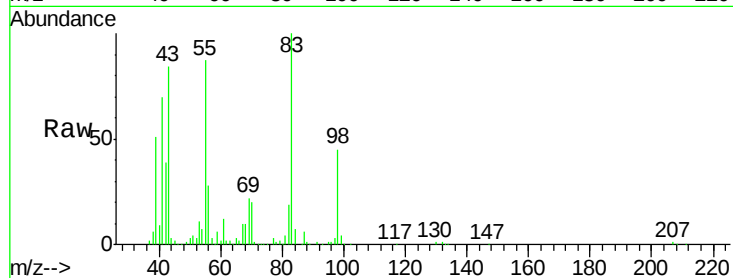




#39
Methvlcvclohexane
Concen: 49.775 ug/l
RT: 5.60 min Scan# 514
Delta R.T. -0.01 min
Lab File: VF059317.D
Acq: 26 Jun 2018 15:22

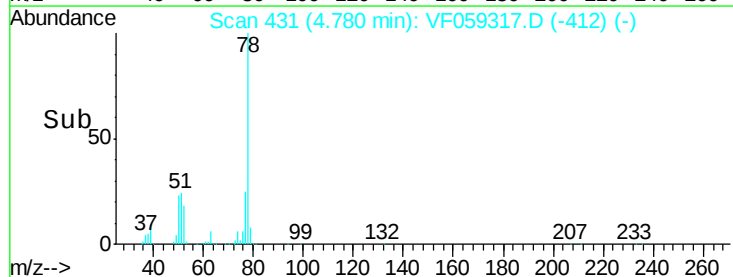
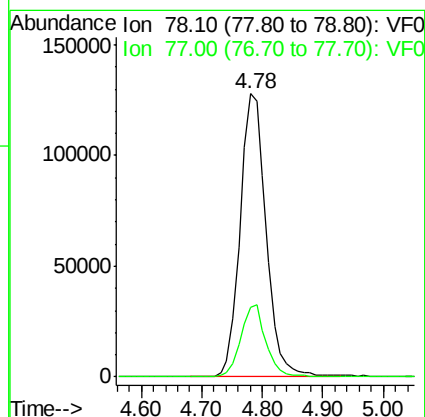
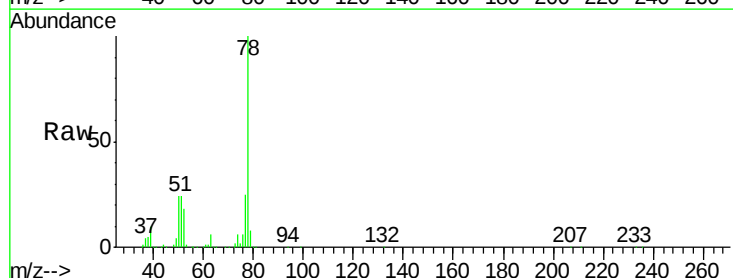
Instrument :
MSVOA_F
ClientSampleId :
WP021SB476-25-27-180619MSD

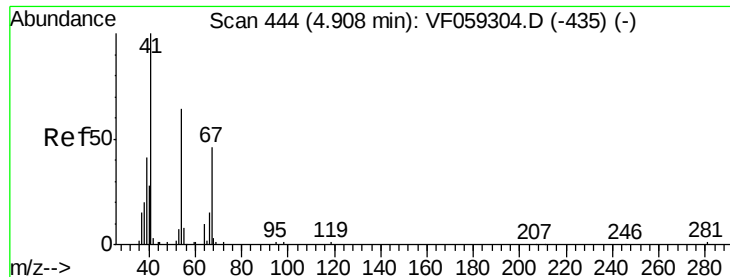
Tot Ion: 83 Resp: 161715
Ion Ratio Lower Upper
83 100
55 86.9 69.2 103.8
98 45.4 35.0 52.6



#40
Benzene
Concen: 46.988 ug/l
RT: 4.78 min Scan# 431
Delta R.T. -0.01 min
Lab File: VF059317.D
Acq: 26 Jun 2018 15:22

Tgt Ion: 78 Resp: 381973
Ion Ratio Lower Upper
78 100
77 24.7 19.6 29.4

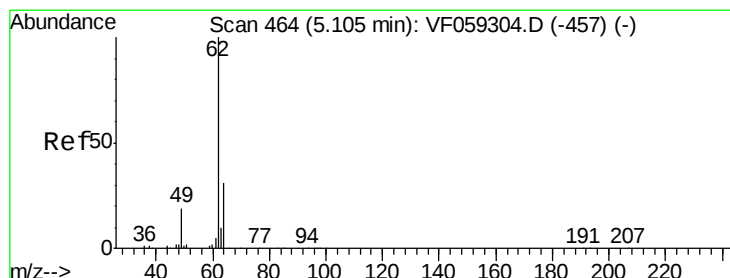
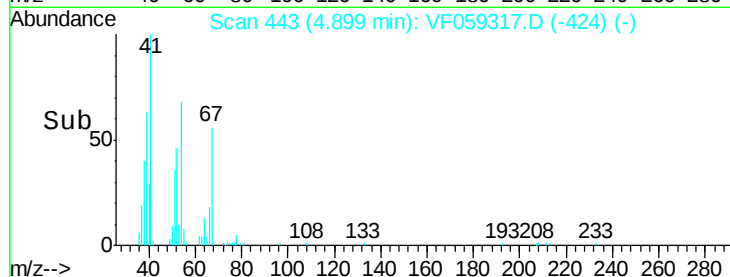
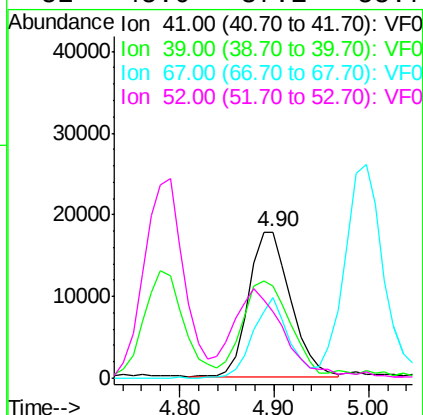
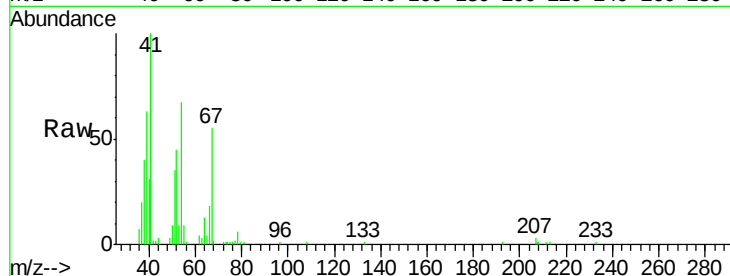




#41
Methacrylonitrile
Concen: 43.977 ug/l
RT: 4.90 min Scan# 443
Delta R.T. -0.01 min
Lab File: VF059317.D
Acq: 26 Jun 2018 15:22

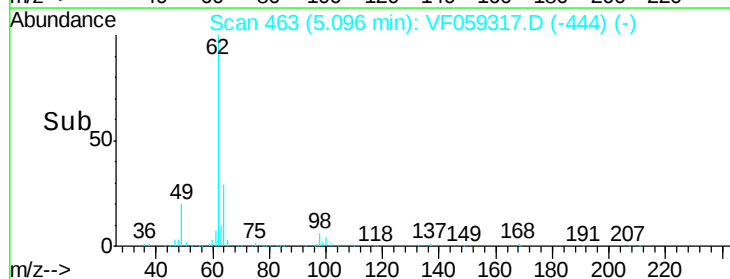
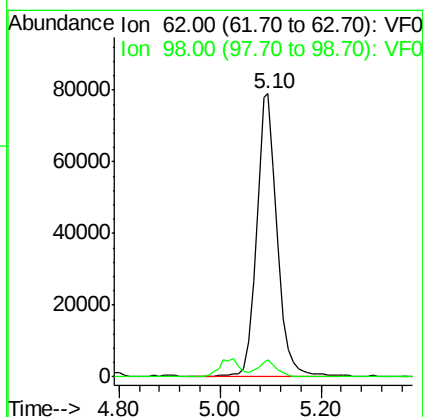
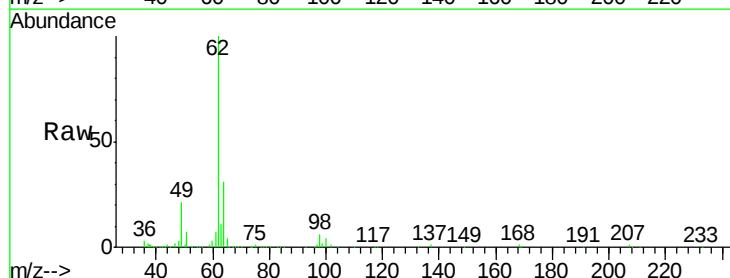
Instrument :
MSVOA_F
ClientSampleId :
WP021SB476-25-27-180619MSD

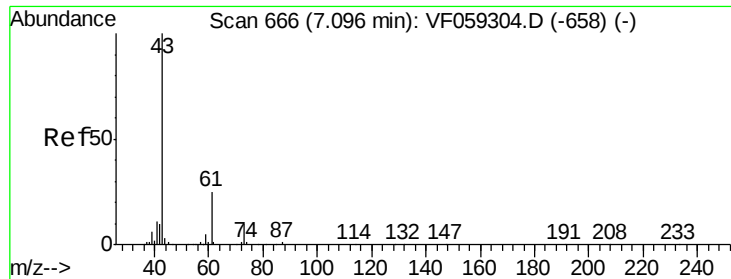
Tot Ion:	41	Resp:	55000
Ion	Ratio	Lower	Upper
41	100		
39	62.7	50.0	75.0
67	55.3	37.0	55.6
52	45.0	37.1	55.7



#42
1,2-Dichloroethane
Concen: 47.754 ug/l
RT: 5.10 min Scan# 463
Delta R.T. -0.01 min
Lab File: VF059317.D
Acq: 26 Jun 2018 15:22

Tgt Ion:	62	Resp:	226839
Ion	Ratio	Lower	Upper
62	100		
98	6.0	0.0	11.4





#43

Isopropyl Acetate

Concen: 44.446 ug/l

RT: 7.09 min Scan# 665

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

Instrument :

MSVOA_F

ClientSampleId :

WP021SB476-25-27-180619MSD

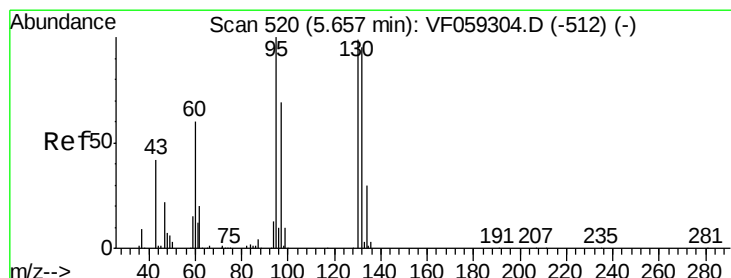
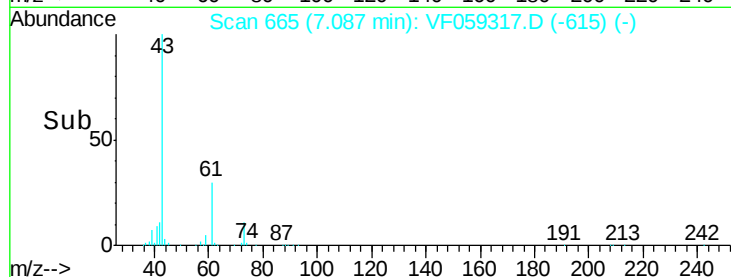
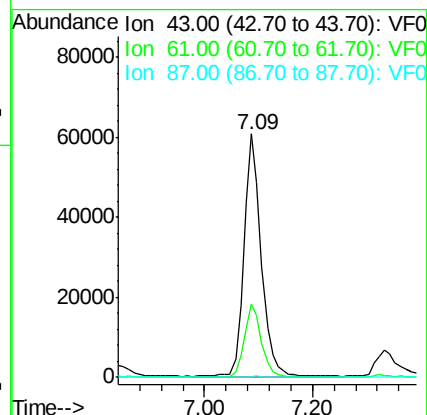
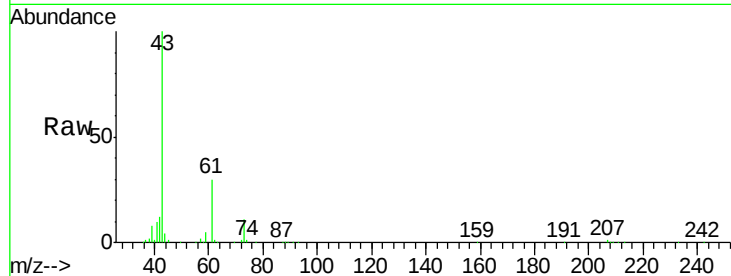
Tot Ion: 43 Resp: 135734

Ion Ratio Lower Upper

43 100

61 30.2 19.7 29.5#

87 0.4 0.5 0.7#



#44

Trichloroethene

Concen: 44.934 ug/l

RT: 5.65 min Scan# 519

Delta R.T. -0.01 min

Lab File: VF059317.D

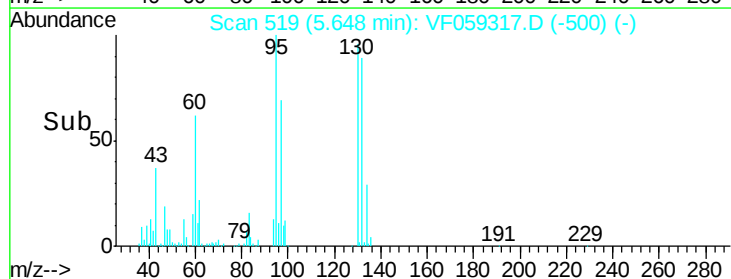
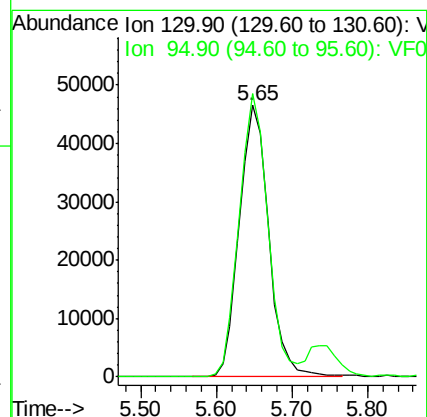
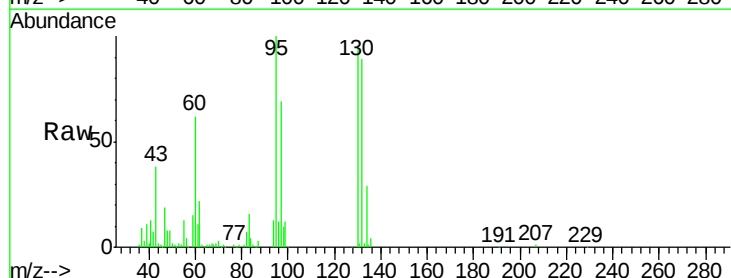
Acq: 26 Jun 2018 15:22

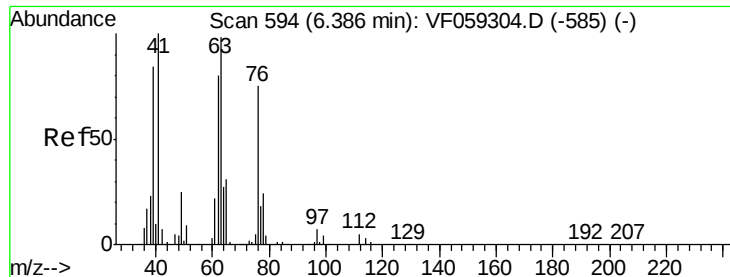
Tgt Ion:130 Resp: 125304

Ion Ratio Lower Upper

130 100

95 104.1 0.0 202.4





#45

1,2-Dichloropropane

Concen: 48.953 ug/l

RT: 6.38 min Scan# 593

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

Instrument :

MSVOA_F

ClientSampleId :

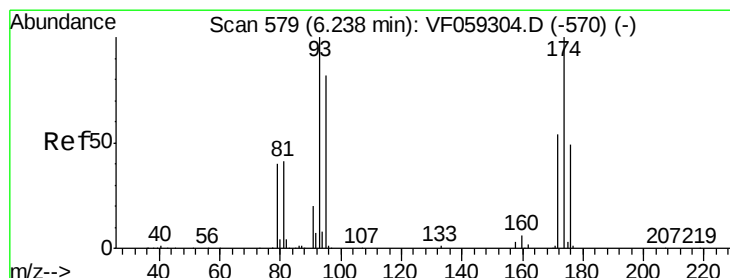
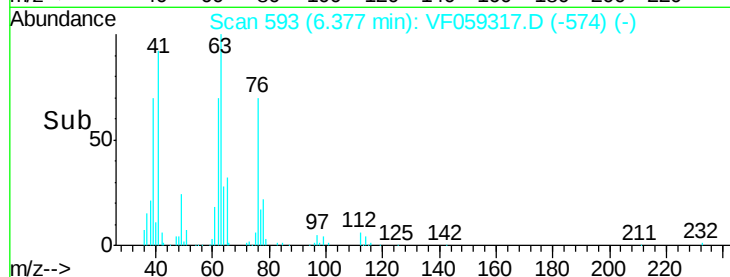
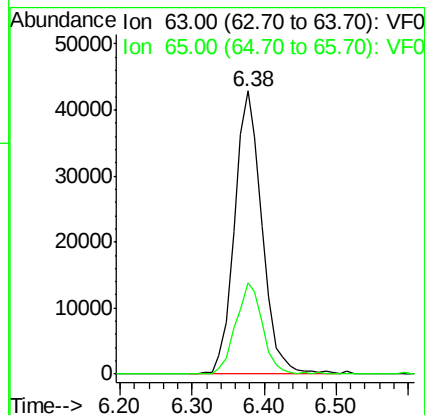
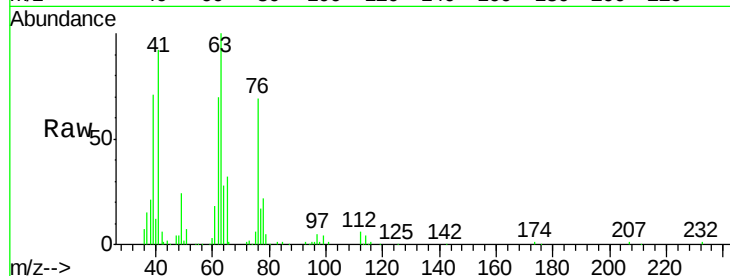
WP021SB476-25-27-180619MSD

Tot Ion: 63 Resp: 113697

Ion Ratio Lower Upper

63 100

65 32.2 25.3 37.9



#46

Dibromomethane

Concen: 46.732 ug/l

RT: 6.23 min Scan# 578

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

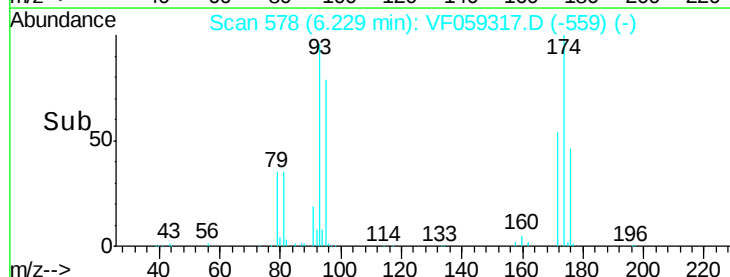
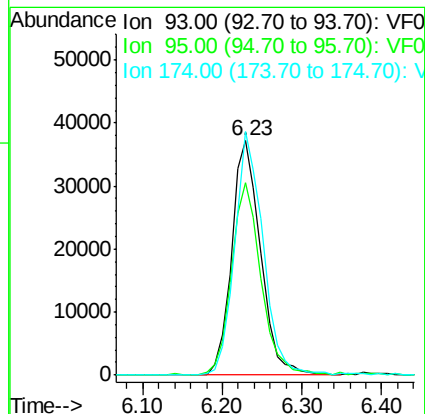
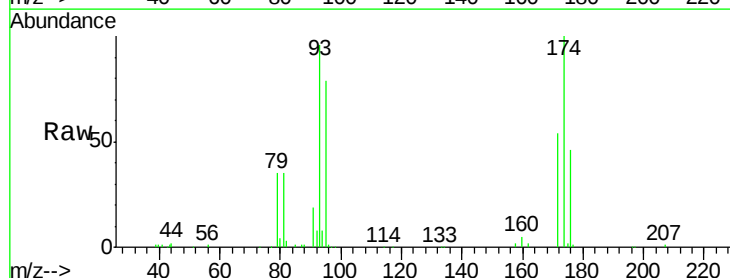
Tgt Ion: 93 Resp: 94205

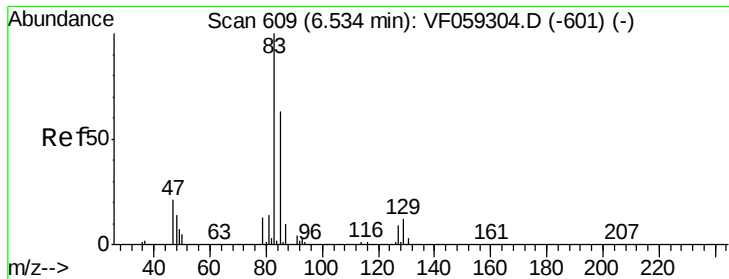
Ion Ratio Lower Upper

93 100

95 82.1 65.6 98.4

174 103.8 80.0 120.0





#47

Bromodichloromethane

Concen: 47.863 ug/l

RT: 6.52 min Scan# 608

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

Instrument :

MSVOA_F

ClientSampleId :

WP021SB476-25-27-180619MSD

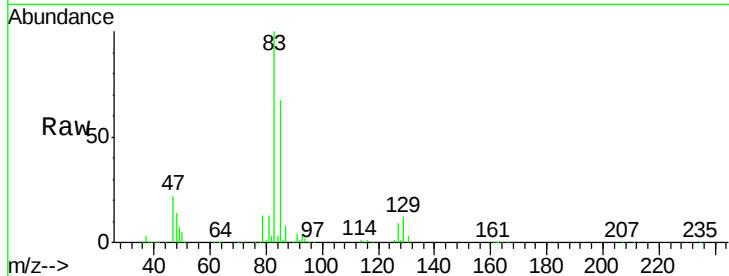
Tot Ion: 83 Resp: 233559

Ion Ratio Lower Upper

83 100

85 66.5 50.2 75.2

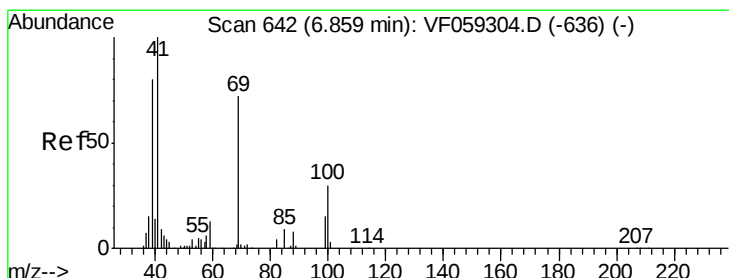
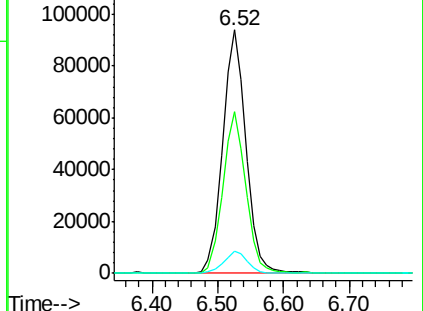
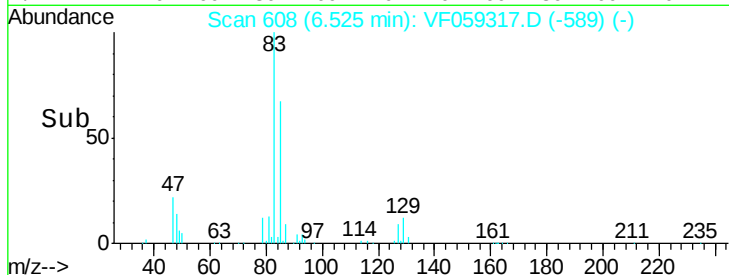
127 9.0 7.0 10.4



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: 47.859 ug/l

RT: 6.85 min Scan# 641

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

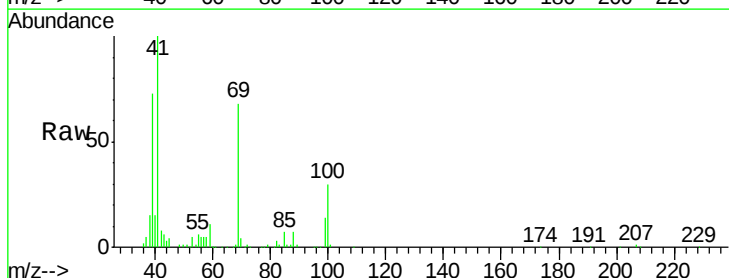
Tgt Ion: 41 Resp: 97956

Ion Ratio Lower Upper

41 100

69 67.6 57.3 85.9

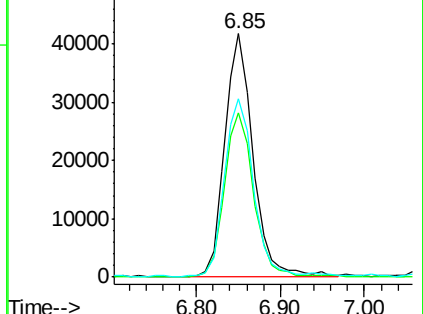
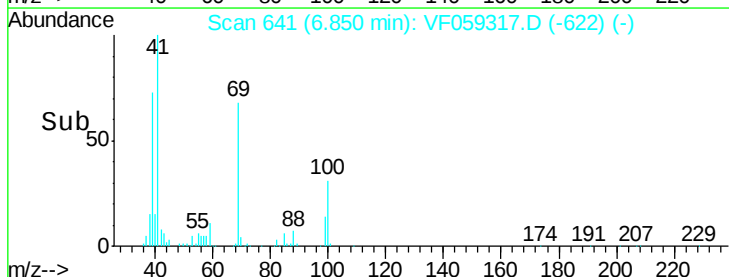
39 73.0 64.4 96.6

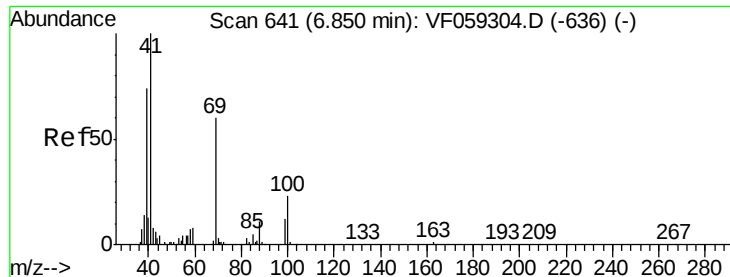


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

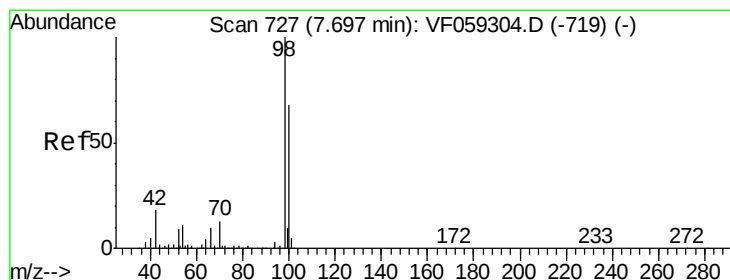
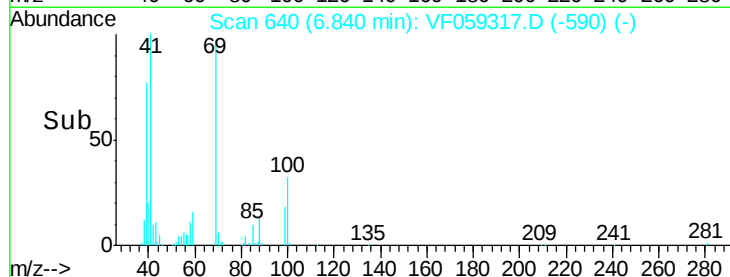
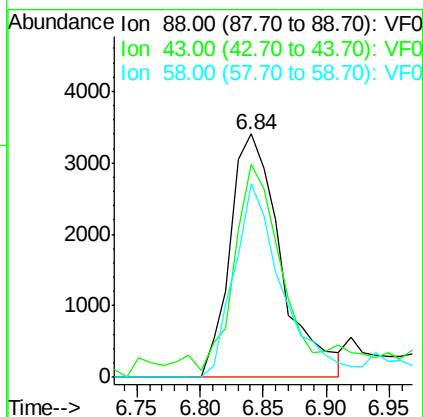
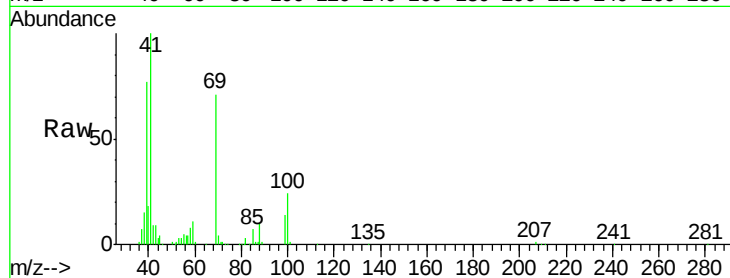




#49
1,4-Dioxane
Concen: 868.614 ug/l
RT: 6.84 min Scan# 640
Delta R.T. -0.01 min
Lab File: VF059317.D
Acq: 26 Jun 2018 15:22

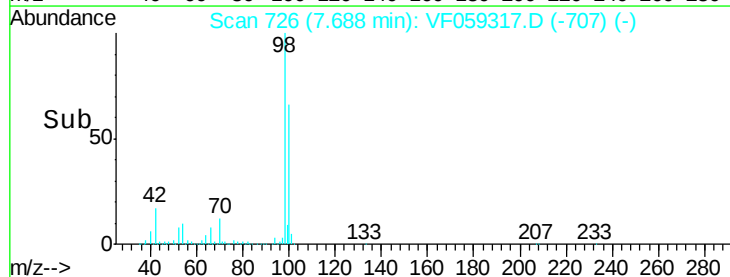
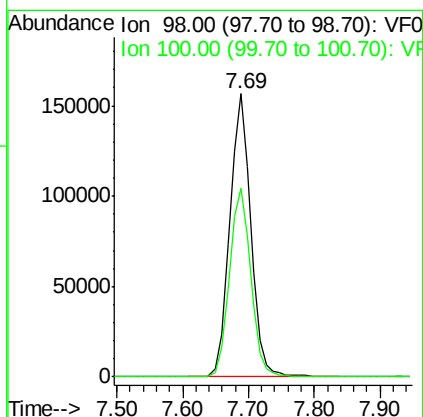
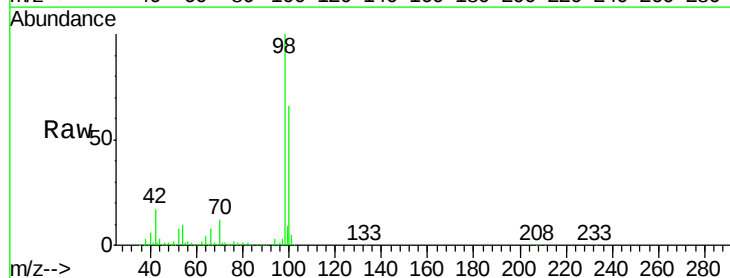
Instrument :
MSVOA_F
ClientSampleId :
WP021SB476-25-27-180619MSD

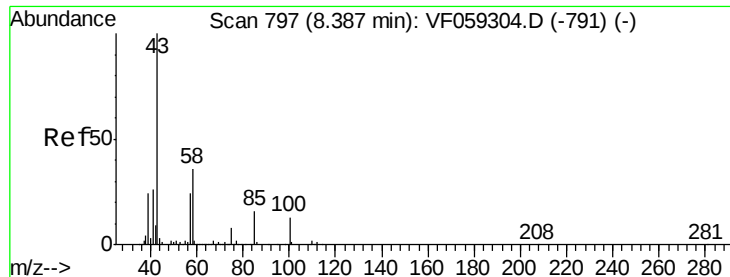
Tot Ion: 88 Resp: 9547
Ion Ratio Lower Upper
88 100
43 87.5 50.6 75.8#
58 79.4 46.6 69.8#



#50
Toluene-d8
Concen: 46.391 ug/l
RT: 7.69 min Scan# 726
Delta R.T. -0.01 min
Lab File: VF059317.D
Acq: 26 Jun 2018 15:22

Tgt Ion: 98 Resp: 352221
Ion Ratio Lower Upper
98 100
100 66.4 54.6 82.0





#51

4-Methyl-2-Pentanone

Concen: 235.317 ug/l

RT: 8.38 min Scan# 796

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

Instrument :

MSVOA_F

ClientSampleId :

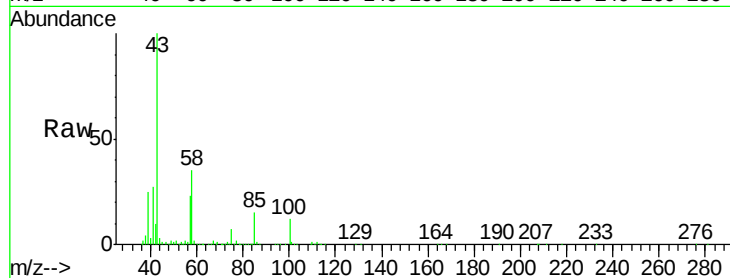
WP021SB476-25-27-180619MSD

Tot Ion: 43 Resp: 532401

Ion Ratio Lower Upper

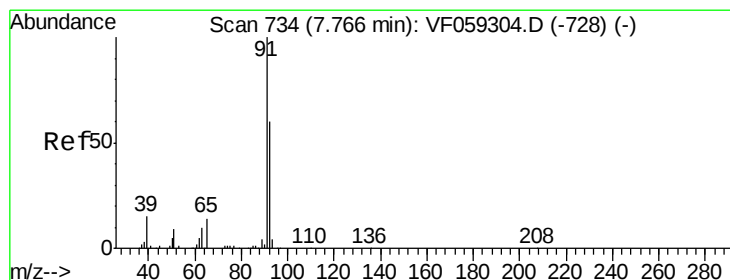
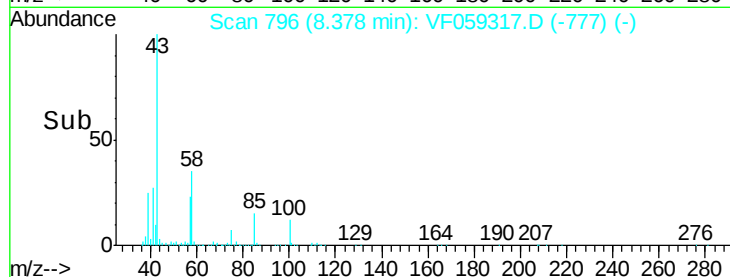
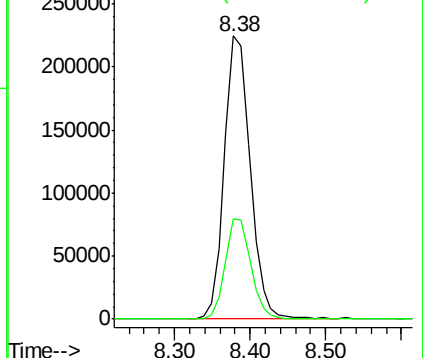
43 100

58 35.4 28.4 42.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 46.793 ug/l

RT: 7.76 min Scan# 733

Delta R.T. -0.01 min

Lab File: VF059317.D

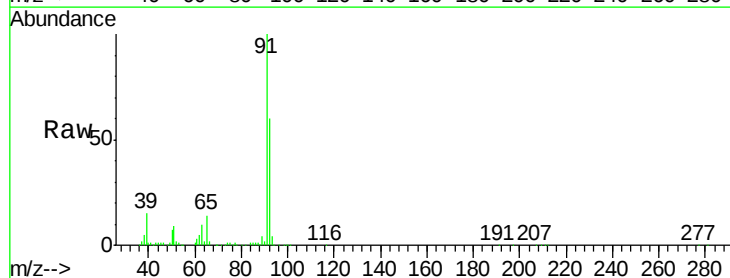
Acq: 26 Jun 2018 15:22

Tgt Ion: 92 Resp: 284636

Ion Ratio Lower Upper

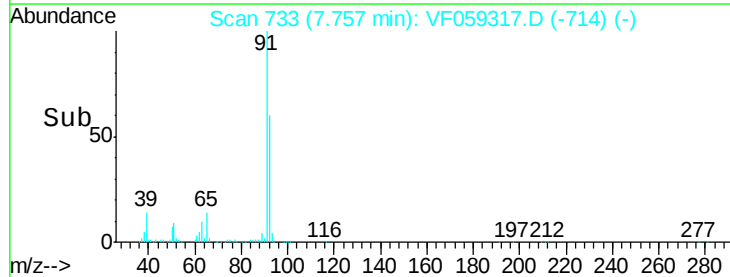
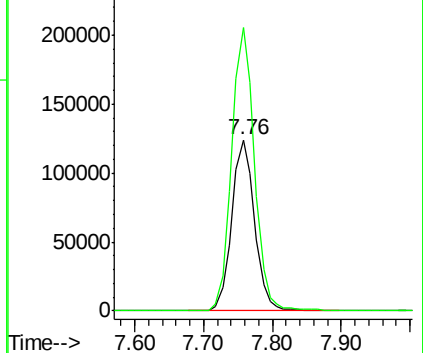
92 100

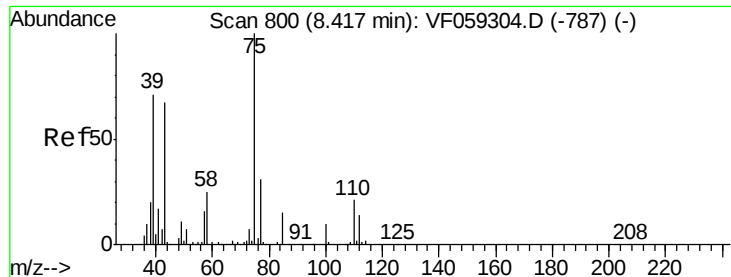
91 165.7 132.8 199.2



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: 47.395 ug/l

RT: 8.41 min Scan# 799

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

Instrument :

MSVOA_F

ClientSampleId :

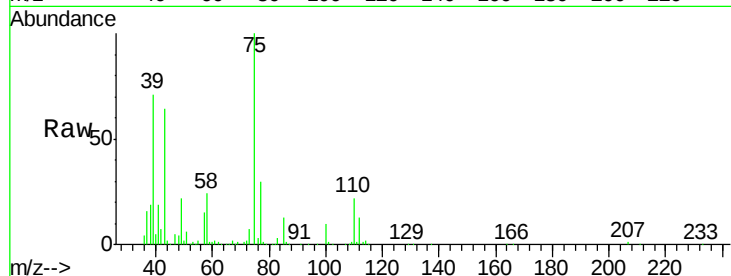
WP021SB476-25-27-180619MSD

Tot Ion: 75 Resp: 210808

Ion Ratio Lower Upper

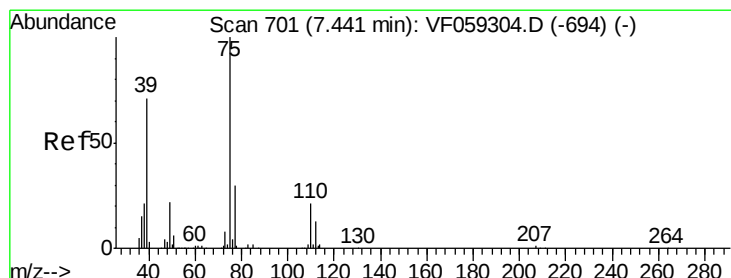
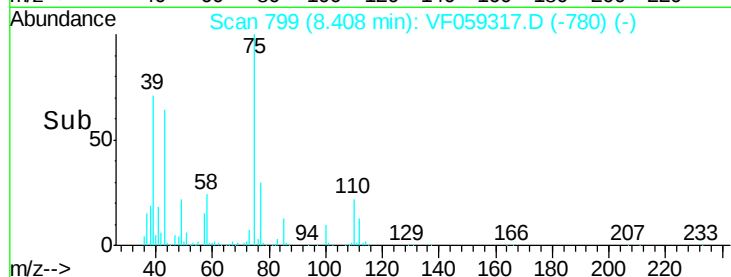
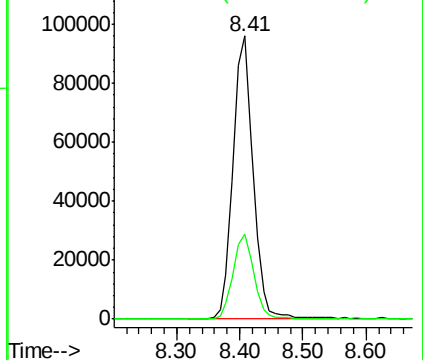
75 100

77 30.0 25.3 37.9



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#54

cis-1,3-Dichloropropene

Concen: 47.332 ug/l

RT: 7.43 min Scan# 700

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

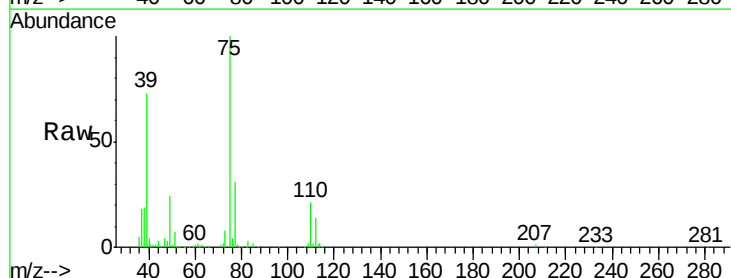
Tgt Ion: 75 Resp: 228683

Ion Ratio Lower Upper

75 100

77 30.9 24.3 36.5

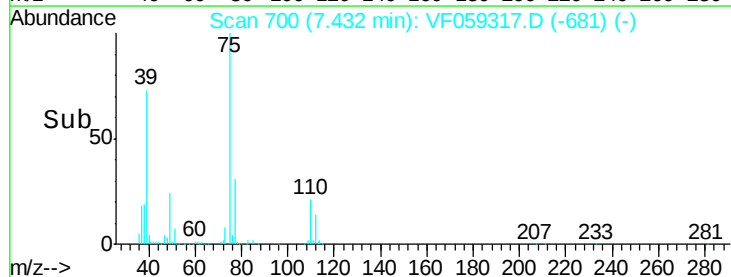
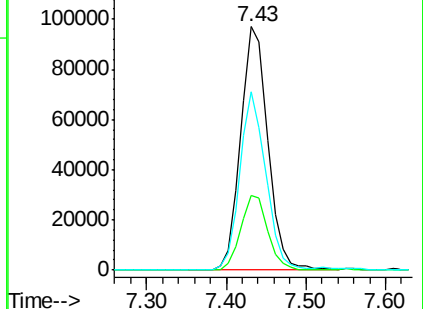
39 73.1 57.2 85.8

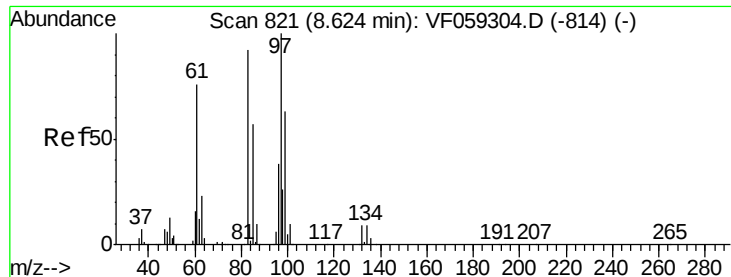


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#55

1,1,2-Trichloroethane

Concen: 46.998 ug/l

RT: 8.61 min Scan# 820

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

Instrument :

MSVOA_F

ClientSampleId :

WP021SB476-25-27-180619MSD

Tot Ion: 97 Resp: 110997

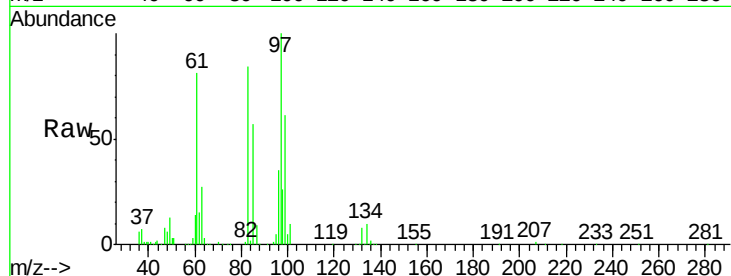
Ion	Ratio	Lower	Upper
97	100		
83	84.1	73.8	110.8
85	57.4	45.5	68.3
99	60.7	50.7	76.1

97 100

83 84.1 73.8 110.8

85 57.4 45.5 68.3

99 60.7 50.7 76.1

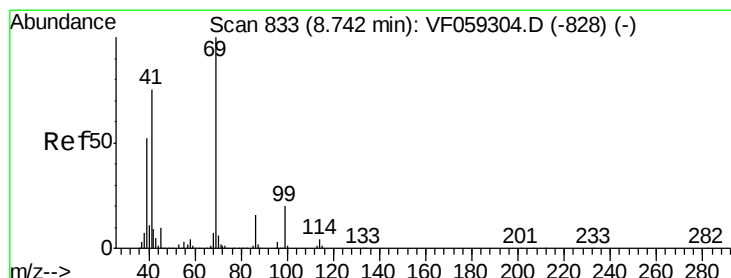
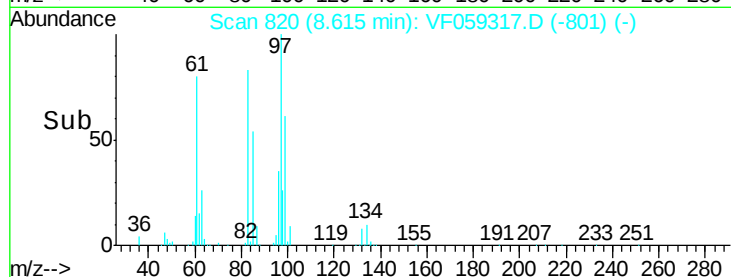
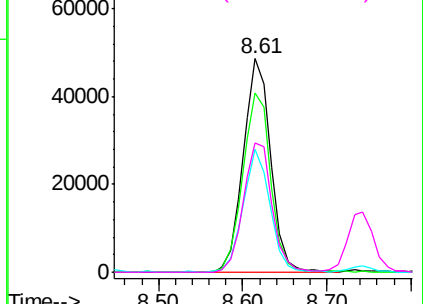


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 46.914 ug/l

RT: 8.74 min Scan# 833

Delta R.T. 0.00 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

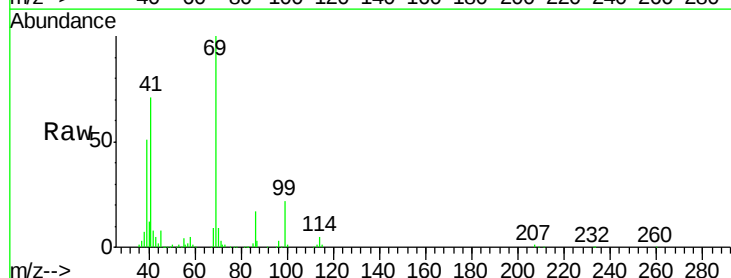
Tgt Ion: 69 Resp: 137256

Ion	Ratio	Lower	Upper
69	100		
41	70.7	60.3	90.5
39	51.3	42.2	63.4

69 100

41 70.7 60.3 90.5

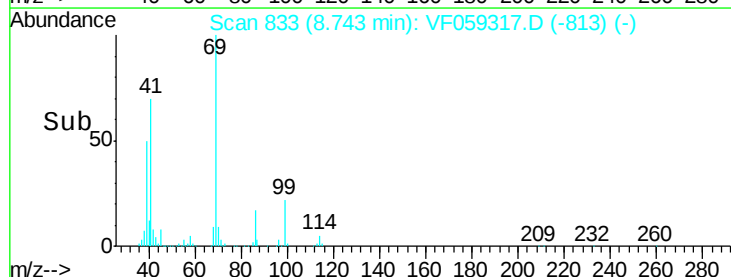
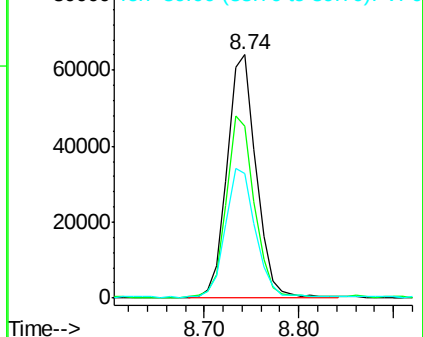
39 51.3 42.2 63.4

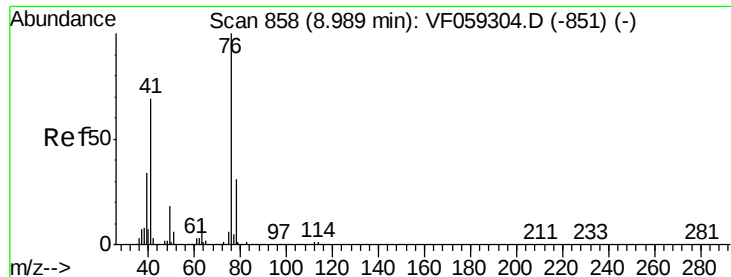


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 45.887 ug/l

RT: 8.98 min Scan# 857

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

Instrument :

MSVOA_F

ClientSampleId :

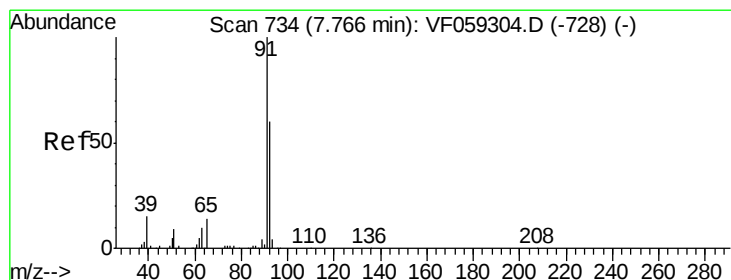
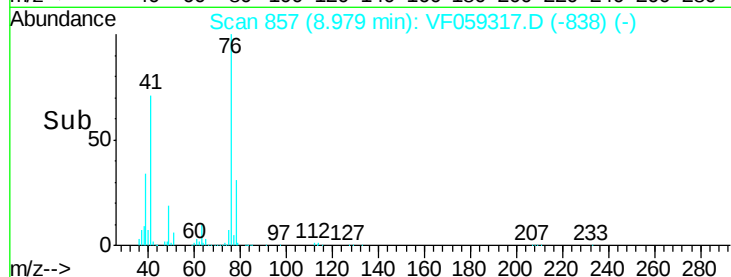
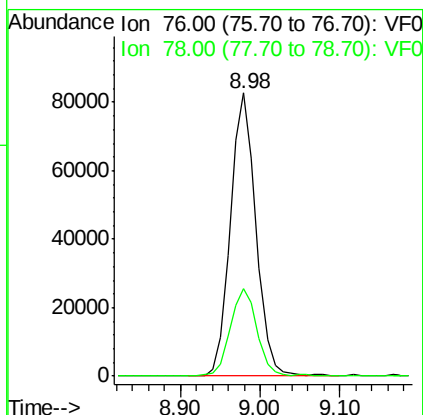
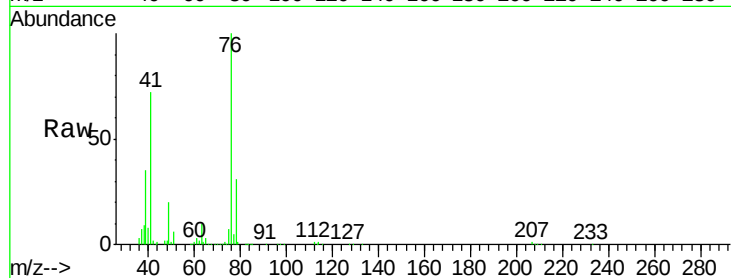
WP021SB476-25-27-180619MSD

Tot Ion: 76 Resp: 185866

Ion Ratio Lower Upper

76 100

78 31.1 24.9 37.3



#58

2-Chloroethyl Vinyl ether

Concen: 228.887 ug/l

RT: 7.76 min Scan# 733

Delta R.T. -0.01 min

Lab File: VF059317.D

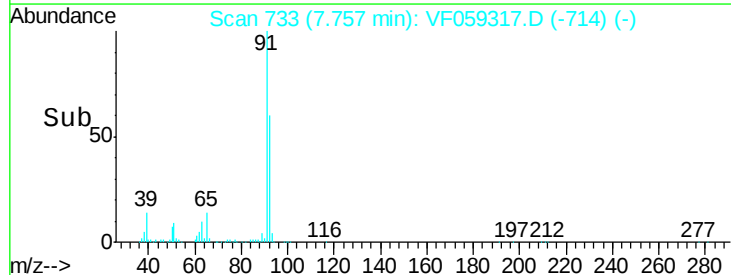
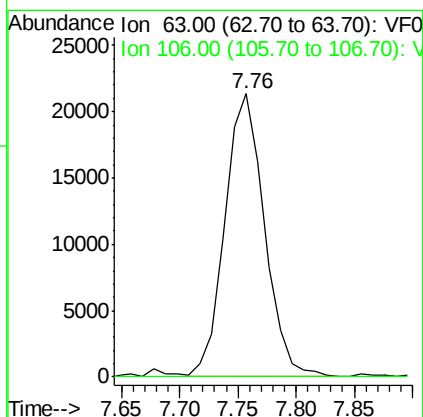
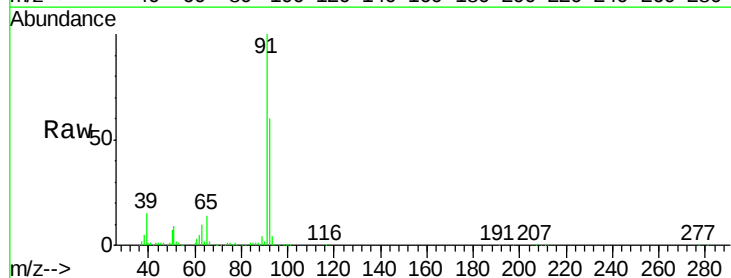
Acq: 26 Jun 2018 15:22

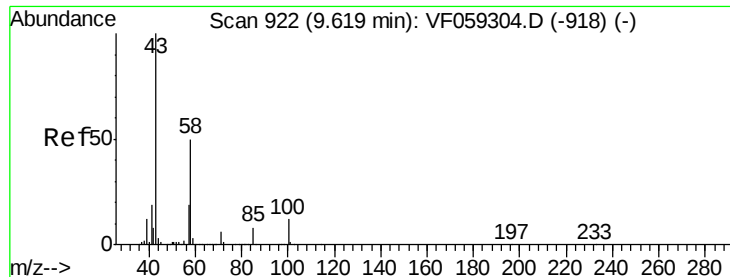
Tgt Ion: 63 Resp: 50223

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

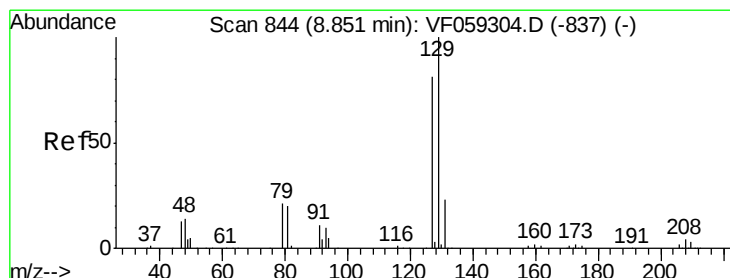
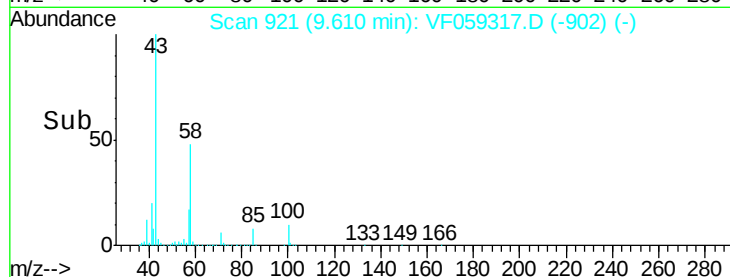
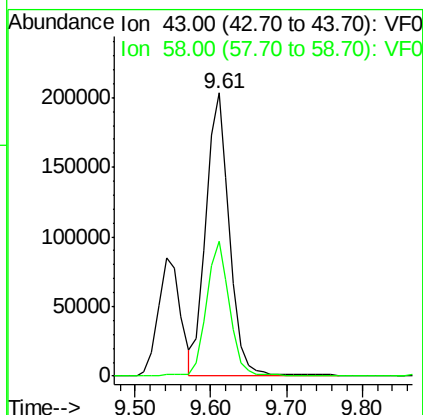
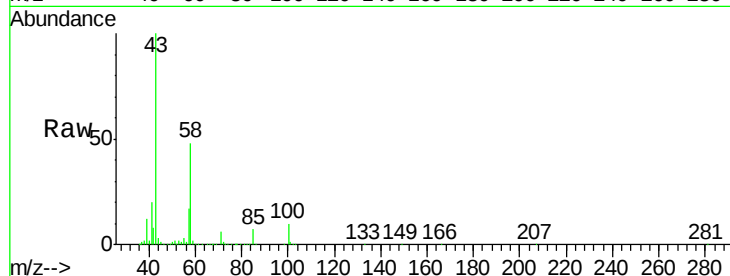




#59
2-Hexanone
Concen: 257.929 ug/l
RT: 9.61 min Scan# 921
Delta R.T. -0.01 min
Lab File: VF059317.D
Acq: 26 Jun 2018 15:22

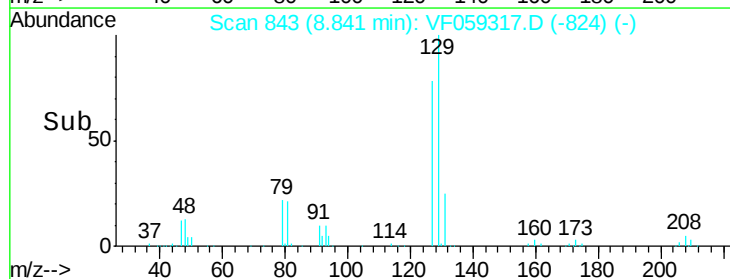
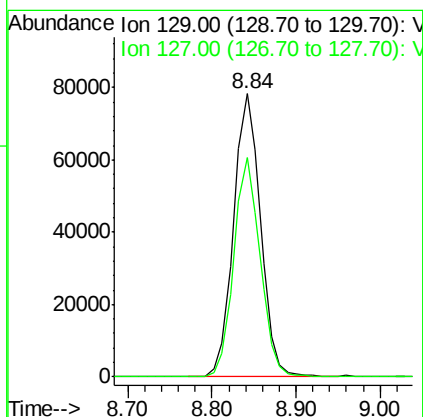
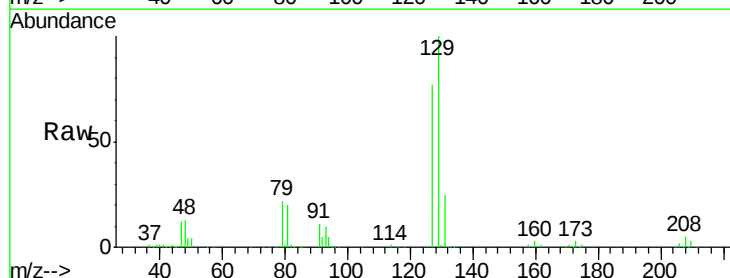
Instrument :
MSVOA_F
ClientSampleId :
WP021SB476-25-27-180619MSD

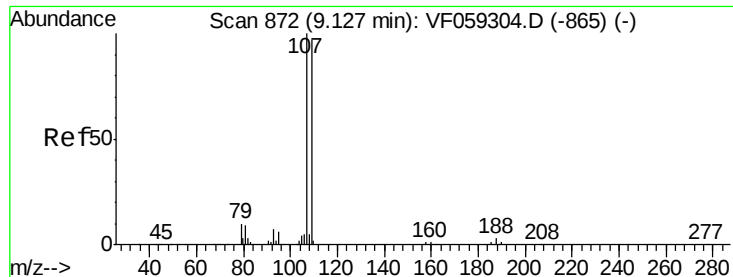
Tot Ion: 43 Resp: 437494
Ion Ratio Lower Upper
43 100
58 47.7 23.3 69.9



#60
Dibromochloromethane
Concen: 47.959 ug/l
RT: 8.84 min Scan# 843
Delta R.T. -0.01 min
Lab File: VF059317.D
Acq: 26 Jun 2018 15:22

Tgt Ion:129 Resp: 174868
Ion Ratio Lower Upper
129 100
127 77.4 40.7 122.1





#61

1,2-Dibromoethane

Concen: 46.148 ug/l

RT: 9.12 min Scan# 871

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

Instrument :

MSVOA_F

ClientSampleId :

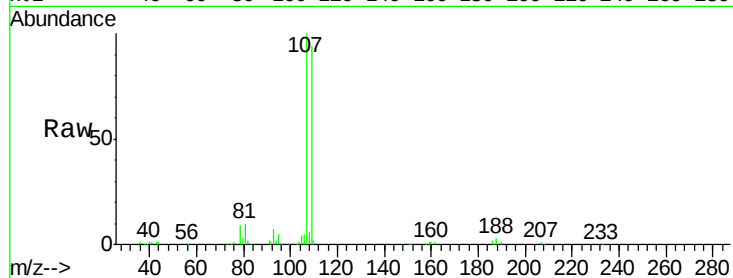
WP021SB476-25-27-180619MSD

Tot Ion:107 Resp: 132182

Ion Ratio Lower Upper

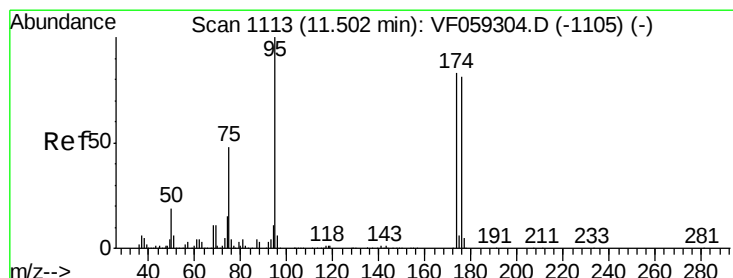
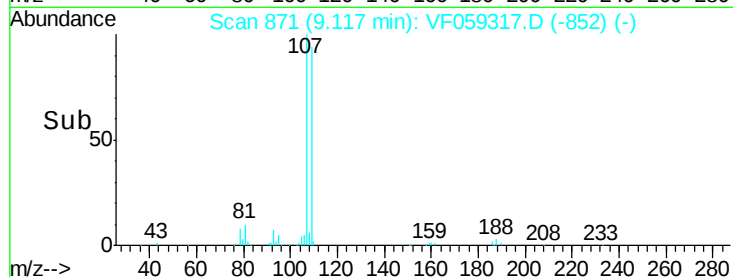
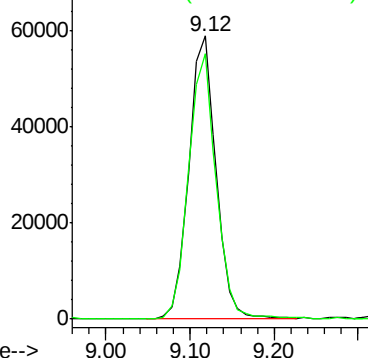
107 100

109 93.6 77.3 115.9



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 45.643 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

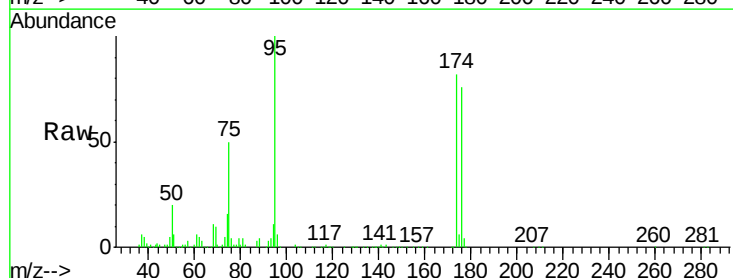
Tgt Ion: 95 Resp: 195482

Ion Ratio Lower Upper

95 100

174 82.3 0.0 165.2

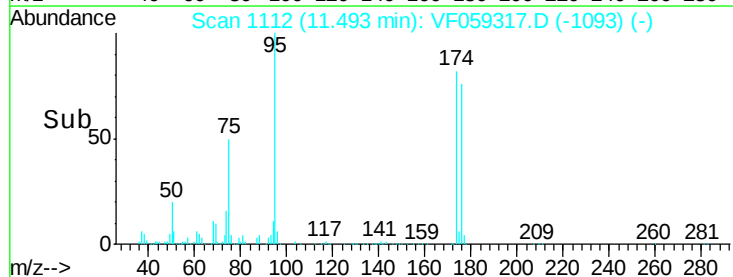
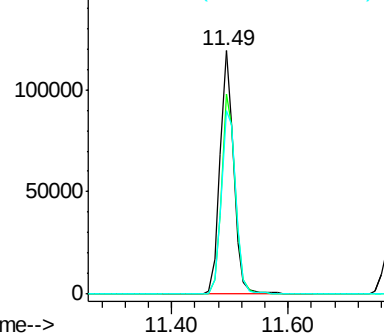
176 75.6 0.0 161.0

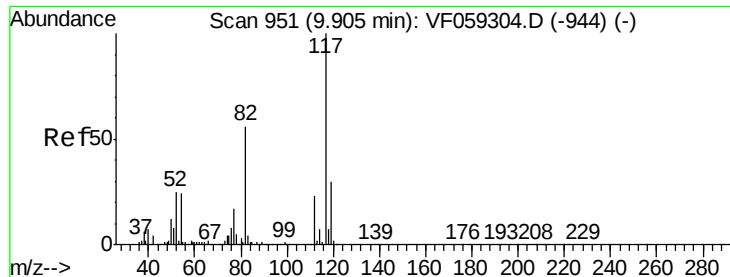


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

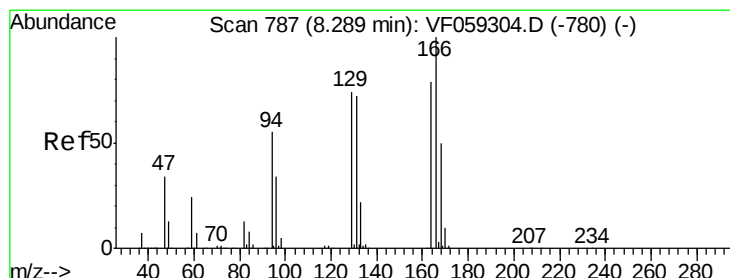
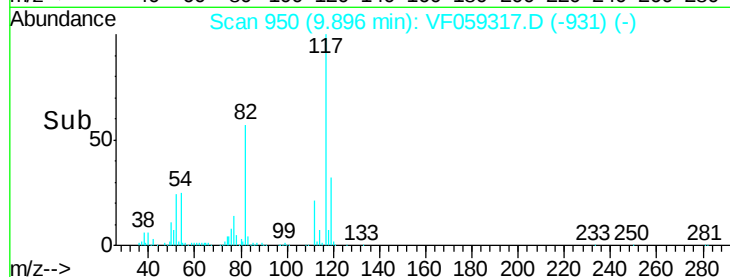
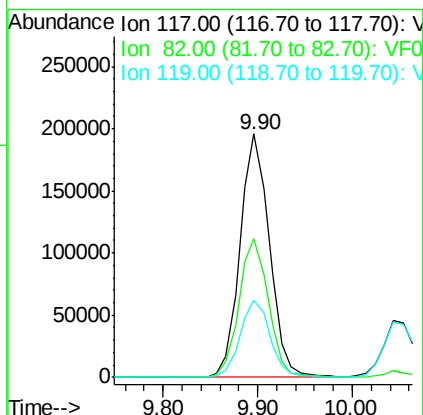
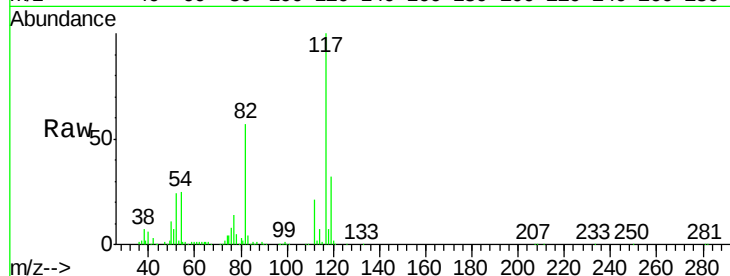




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.90 min Scan# 950
Delta R.T. -0.01 min
Lab File: VF059317.D
Acq: 26 Jun 2018 15:22

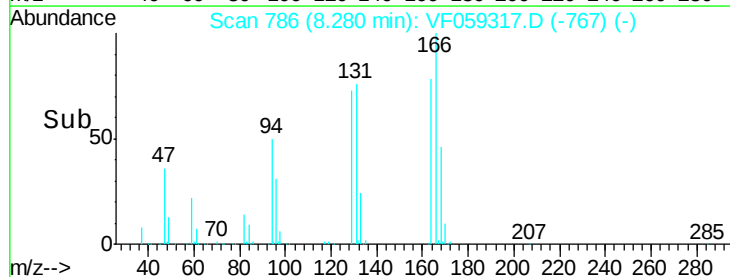
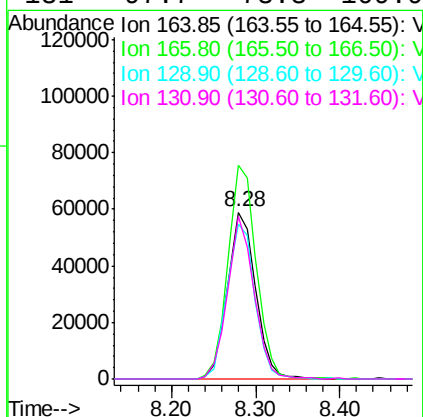
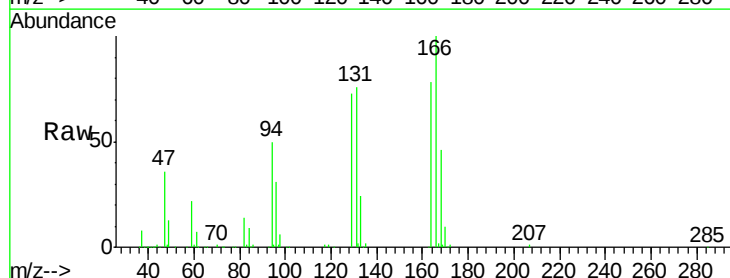
Instrument :
MSVOA_F
ClientSampleId :
WP021SB476-25-27-180619MSD

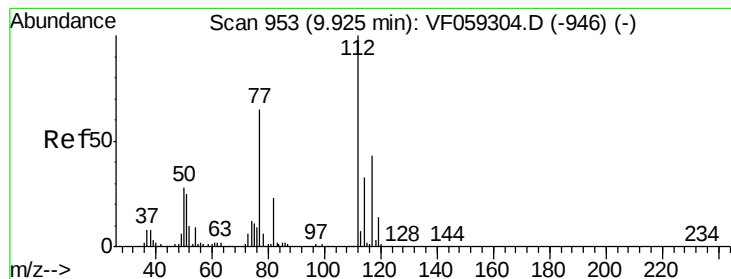
Tot Ion	Ratio	Lower	Upper
117	100		
82	56.8	44.6	66.8
119	31.7	24.1	36.1



#64
Tetrachloroethene
Concen: 50.356 ug/l
RT: 8.28 min Scan# 786
Delta R.T. -0.01 min
Lab File: VF059317.D
Acq: 26 Jun 2018 15:22

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.2	101.1	151.7
129	93.2	75.0	112.4
131	97.7	73.3	109.9





#65

Chlorobenzene

Concen: 46.361 ug/l

RT: 9.92 min Scan# 952

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

Instrument :

MSVOA_F

ClientSampleId :

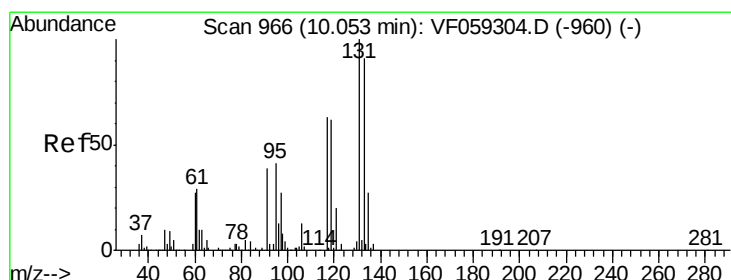
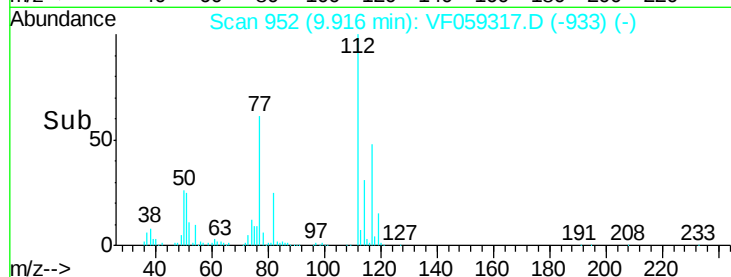
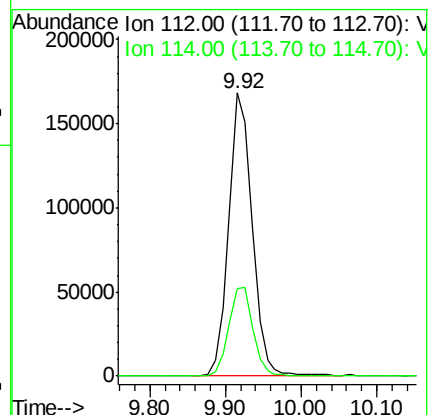
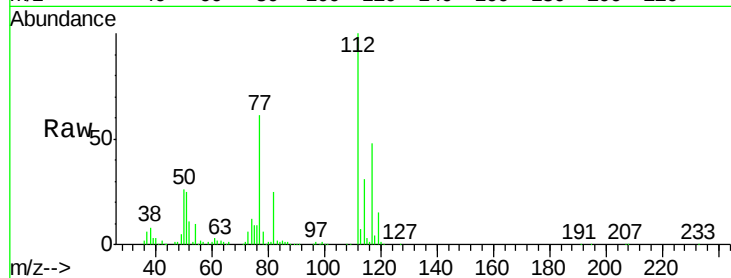
WP021SB476-25-27-180619MSD

Tot Ion:112 Resp: 362198

Ion Ratio Lower Upper

112 100

114 31.0 26.5 39.7



#66

1,1,1,2-Tetrachloroethane

Concen: 45.325 ug/l

RT: 10.04 min Scan# 965

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

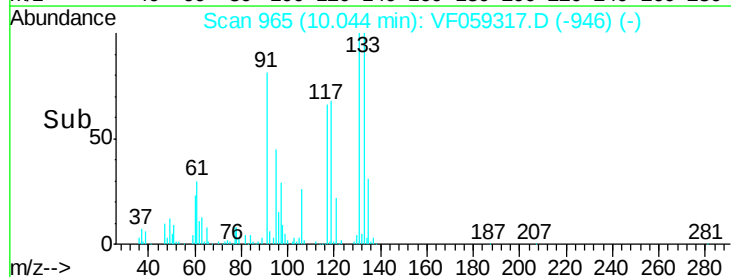
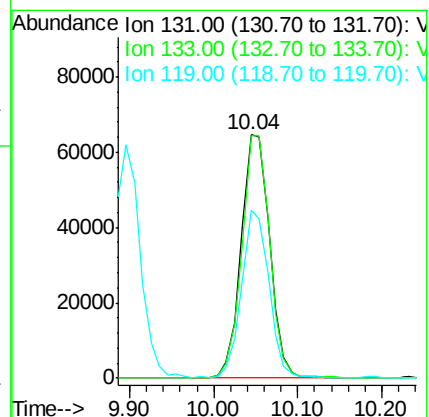
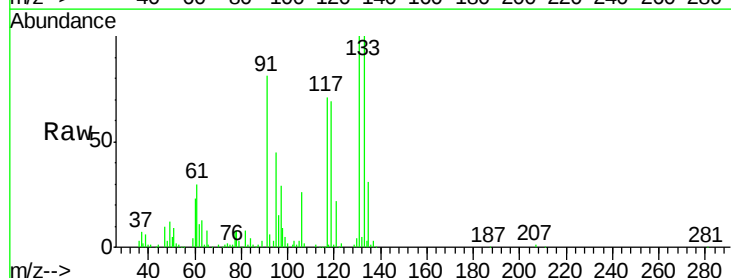
Tgt Ion:131 Resp: 153150

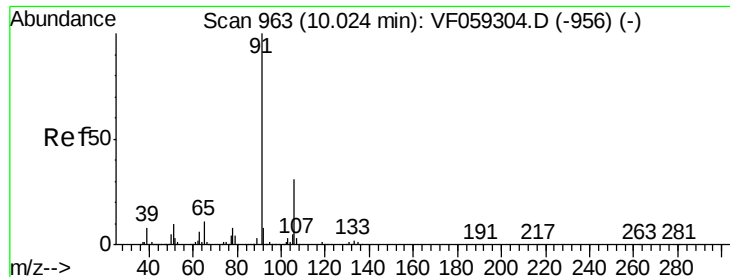
Ion Ratio Lower Upper

131 100

133 99.8 45.3 135.9

119 69.0 31.3 93.9





#67

Ethyl Benzene

Concen: 46.105 ug/l

RT: 10.01 min Scan# 962

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

Instrument :

MSVOA_F

ClientSampleId :

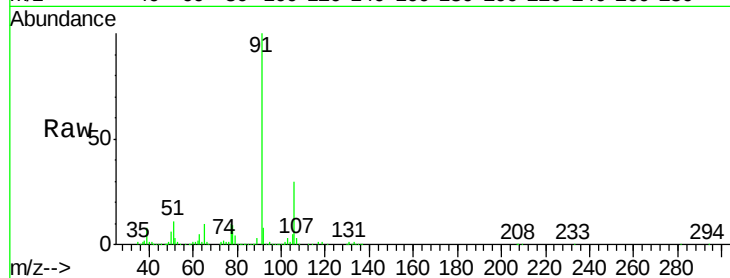
WP021SB476-25-27-180619MSD

Tot Ion: 91 Resp: 611050

Ion Ratio Lower Upper

91 100

106 30.4 24.8 37.2



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V

300000

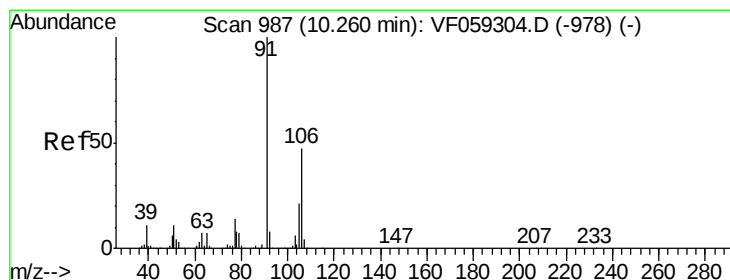
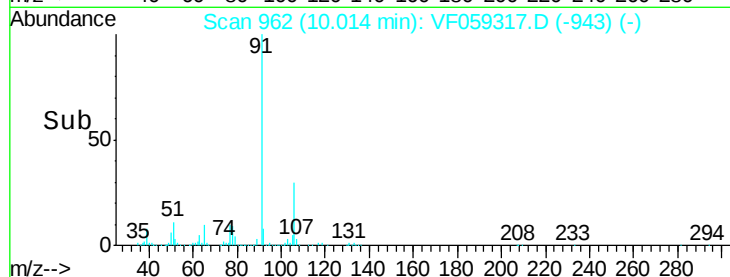
200000

100000

0

9.90 10.01 10.10

Time-->



#68

m/p-Xylenes

Concen: 95.048 ug/l

RT: 10.25 min Scan# 986

Delta R.T. -0.01 min

Lab File: VF059317.D

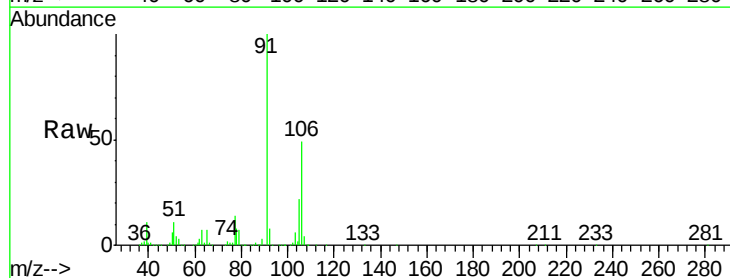
Acq: 26 Jun 2018 15:22

Tgt Ion: 106 Resp: 448369

Ion Ratio Lower Upper

106 100

91 205.1 170.8 256.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

500000

400000

300000

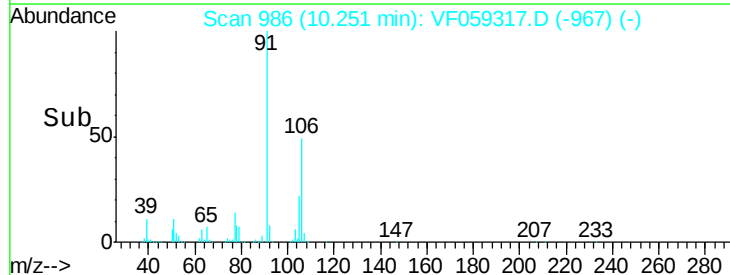
200000

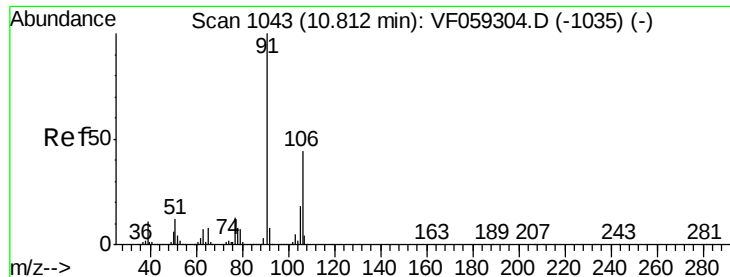
100000

0

10.10 10.25 10.30

Time-->

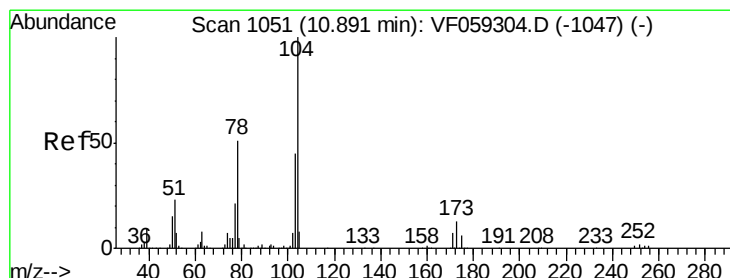
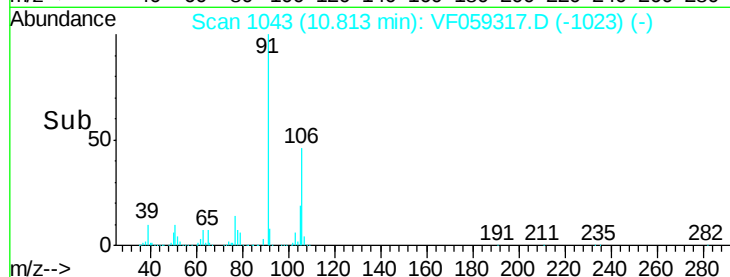
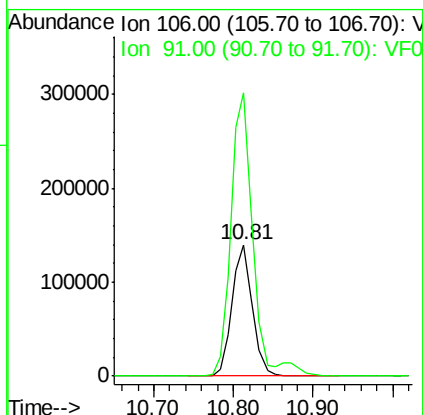
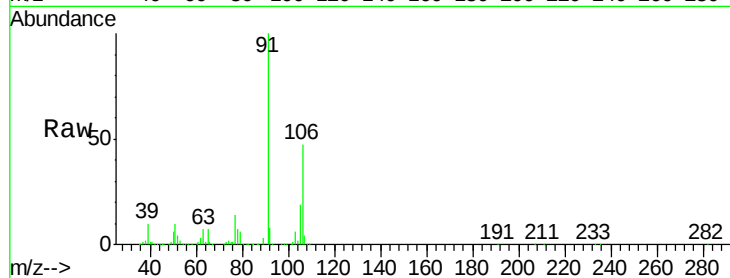




#69
o-Xylene
Concen: 47.681 ug/l
RT: 10.81 min Scan# 1043
Delta R.T. 0.00 min
Lab File: VF059317.D
Acq: 26 Jun 2018 15:22

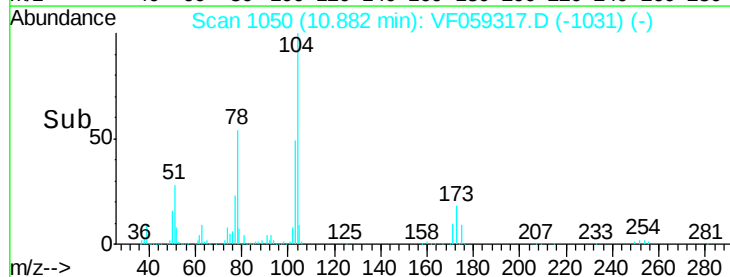
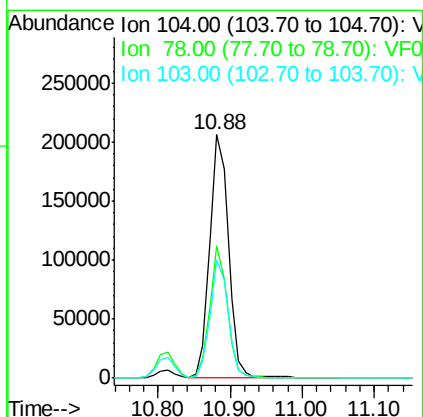
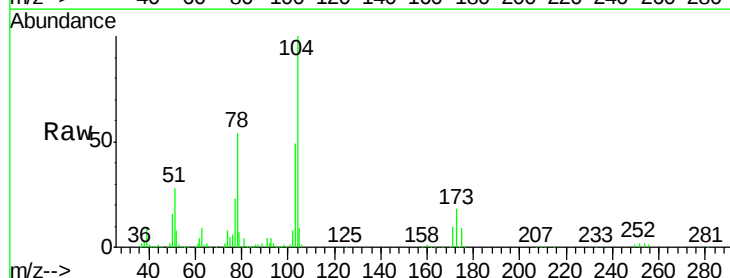
Instrument :
MSVOA_F
ClientSampleId :
WP021SB476-25-27-180619MSD

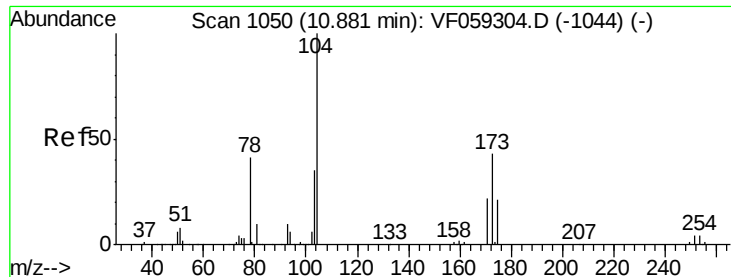
Tot Ion:106 Resp: 251582
Ion Ratio Lower Upper
106 100
91 215.0 114.6 343.6



#70
Styrene
Concen: 46.118 ug/l
RT: 10.88 min Scan# 1050
Delta R.T. -0.01 min
Lab File: VF059317.D
Acq: 26 Jun 2018 15:22

Tgt Ion:104 Resp: 370672
Ion Ratio Lower Upper
104 100
78 54.4 40.9 61.3
103 48.8 36.5 54.7





#71

Bromoform

Concen: 48.009 ug/l

RT: 10.87 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

Instrument :

MSVOA_F

ClientSampleId :

WP021SB476-25-27-180619MSD

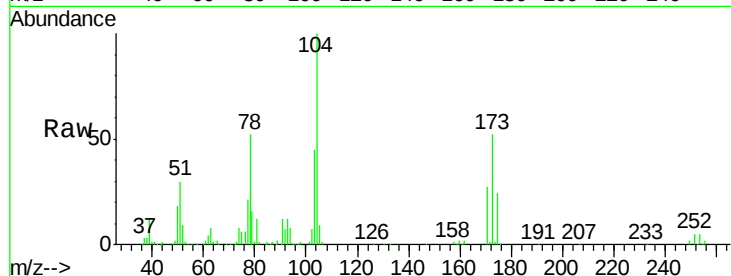
Tot Ion:173 Resp: 111189

Ion Ratio Lower Upper

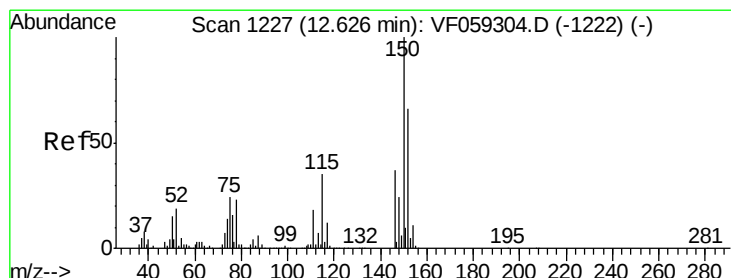
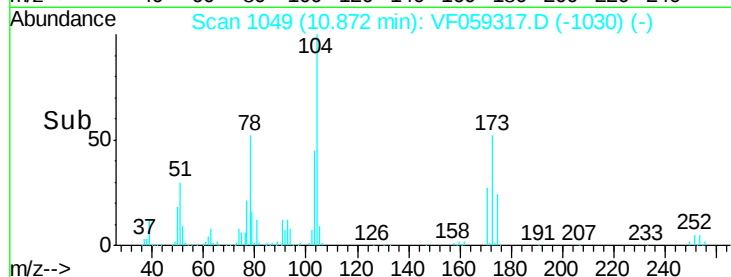
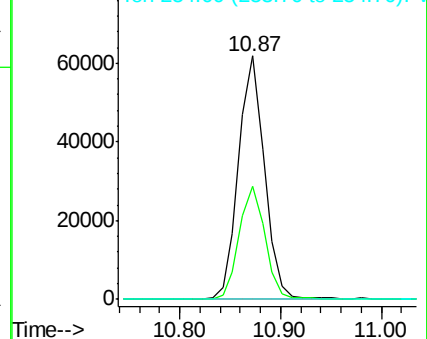
173 100

175 46.4 24.8 74.3

254 0.2 0.0 0.0#



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1226

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

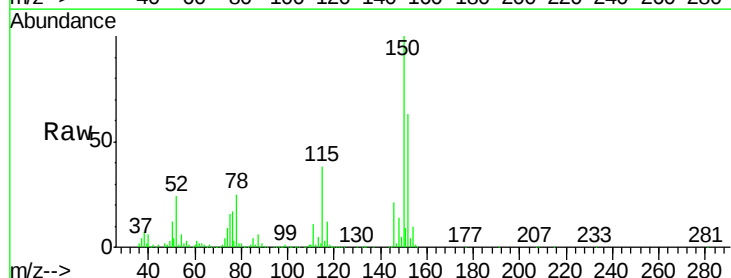
Tgt Ion:152 Resp: 245183

Ion Ratio Lower Upper

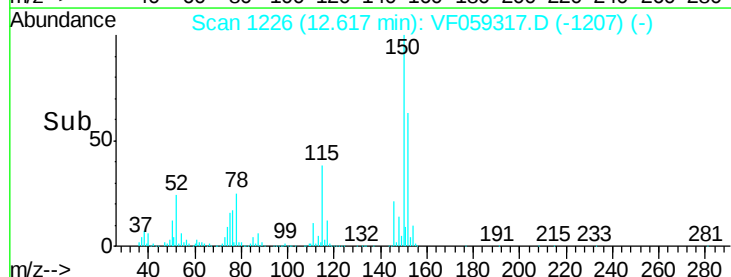
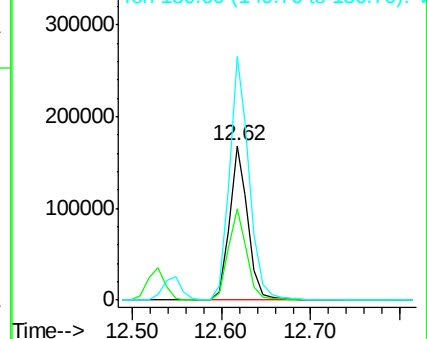
152 100

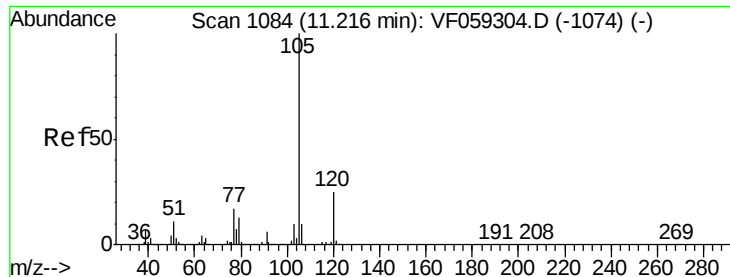
115 59.4 27.1 81.3

150 157.7 0.0 305.2



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: 50.109 ug/l

RT: 11.21 min Scan# 1083

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

Instrument :

MSVOA_F

ClientSampleId :

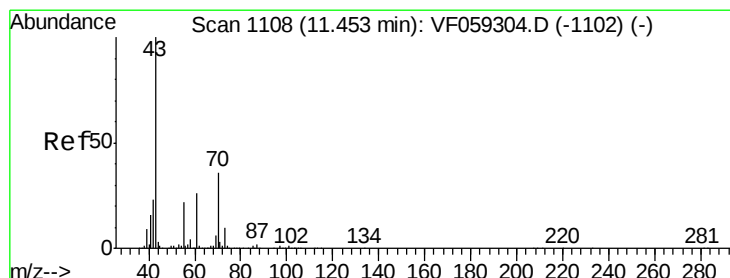
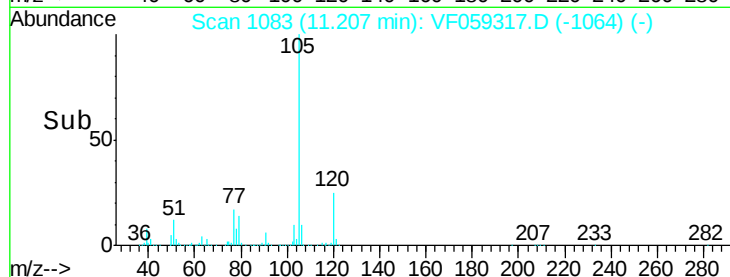
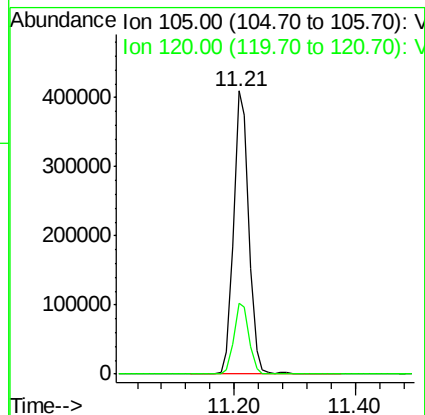
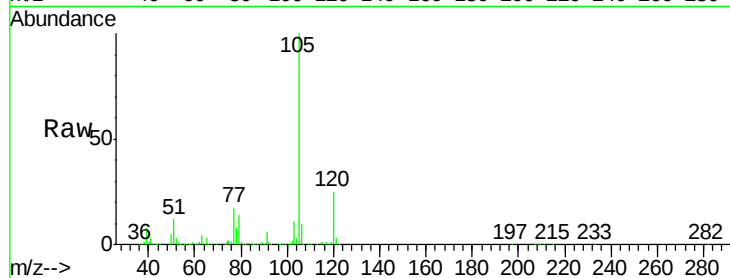
WP021SB476-25-27-180619MSD

Tot Ion:105 Resp: 715741

Ion Ratio Lower Upper

105 100

120 25.1 12.3 36.8



#74

N-ethyl acetate

Concen: 47.193 ug/l

RT: 11.44 min Scan# 1107

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

Tgt Ion: 43 Resp: 244619

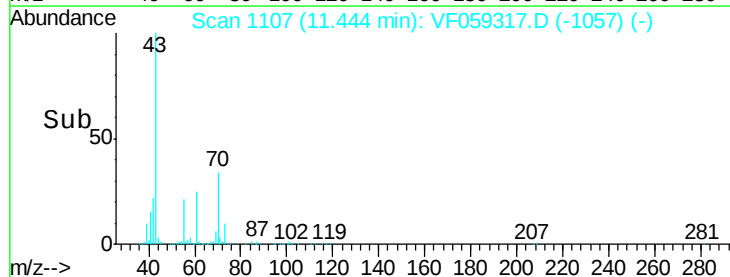
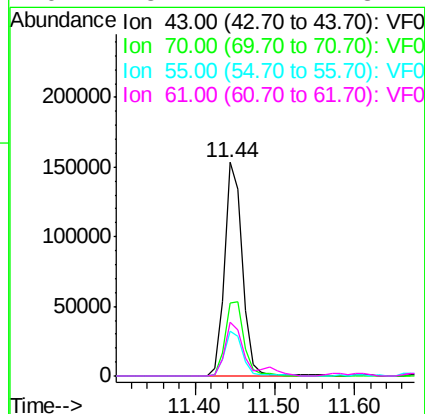
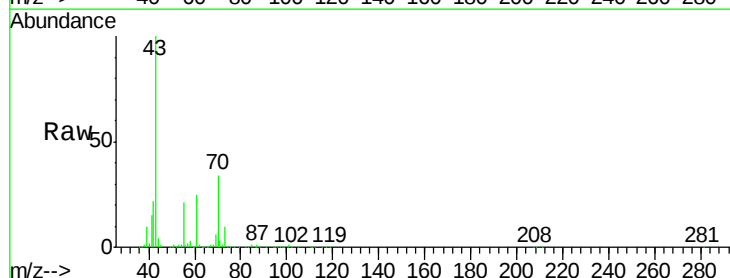
Ion Ratio Lower Upper

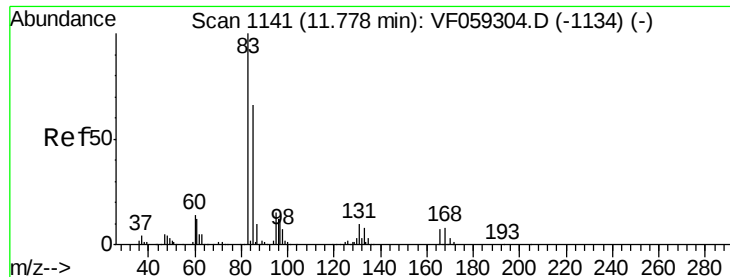
43 100

70 34.3 28.8 43.2

55 20.9 17.4 26.0

61 25.4 21.1 31.7





#75

1,1,2,2-Tetrachloroethane

Concen: 48.589 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

Instrument :

MSVOA_F

ClientSampleId :

WP021SB476-25-27-180619MSD

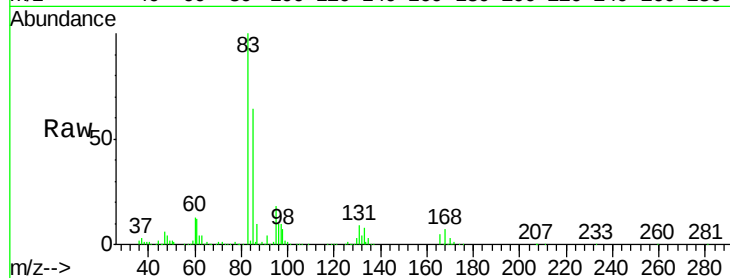
Tot Ion: 83 Resp: 175279

Ion Ratio Lower Upper

83 100

131 9.0 4.9 14.6

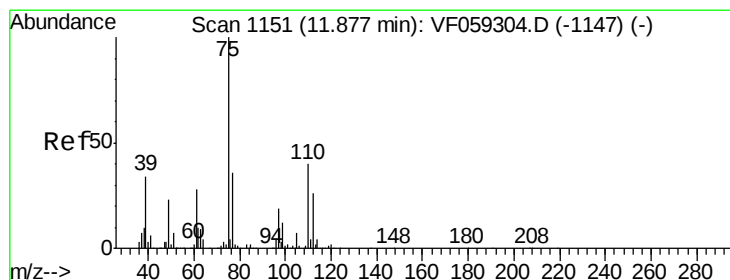
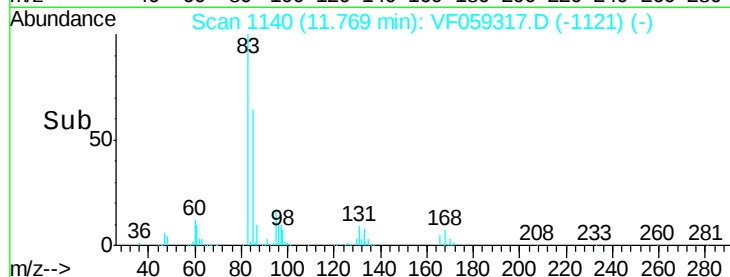
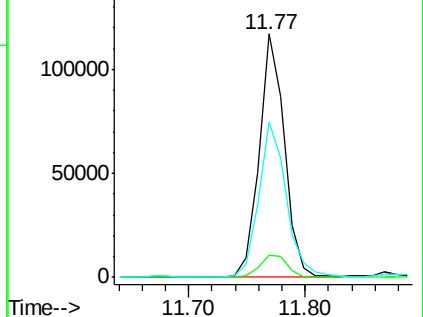
85 63.8 32.8 98.4



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 48.716 ug/l

RT: 11.87 min Scan# 1150

Delta R.T. -0.01 min

Lab File: VF059317.D

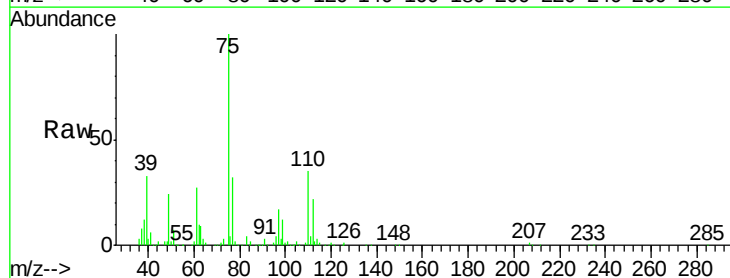
Acq: 26 Jun 2018 15:22

Tgt Ion: 75 Resp: 132565

Ion Ratio Lower Upper

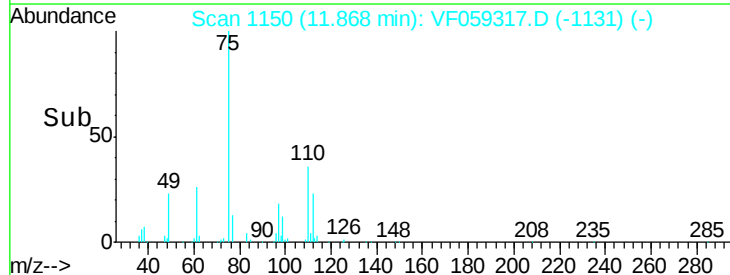
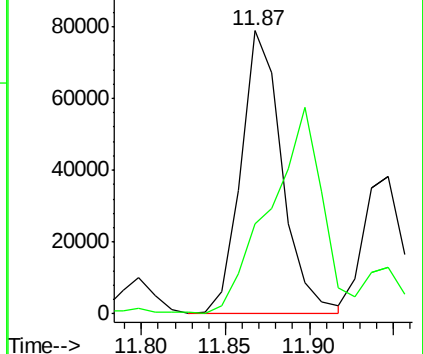
75 100

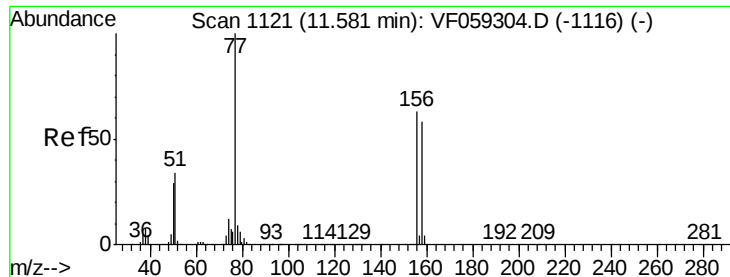
77 32.0 18.0 54.0



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

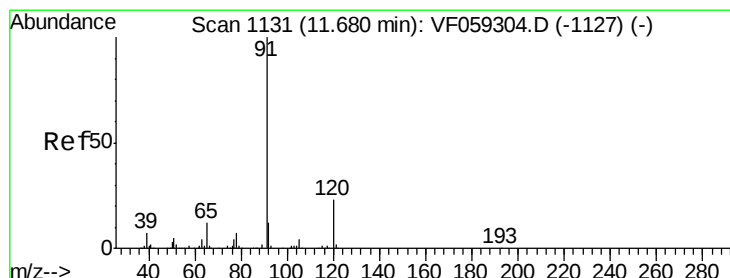
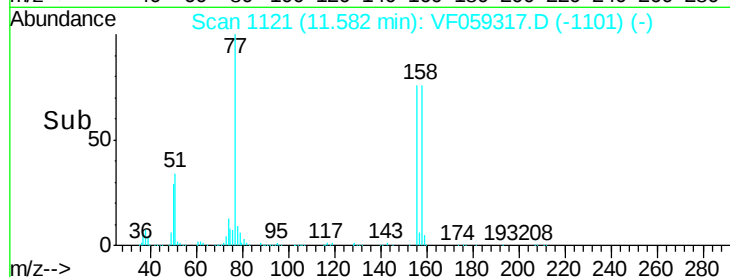
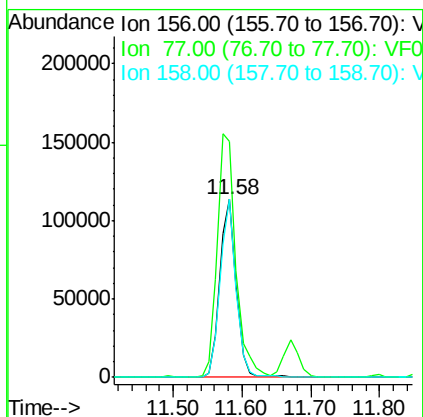
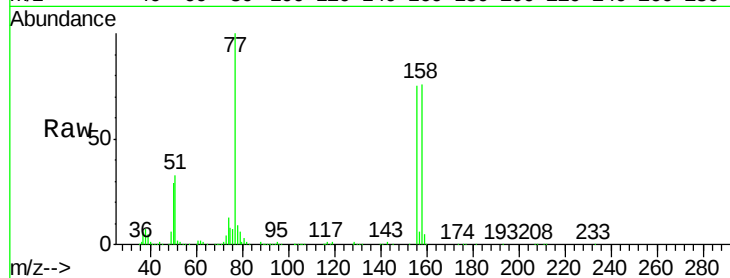




#77
Bromobenzene
Concen: 47.346 ug/l
RT: 11.58 min Scan# 1121
Delta R.T. 0.00 min
Lab File: VF059317.D
Acq: 26 Jun 2018 15:22

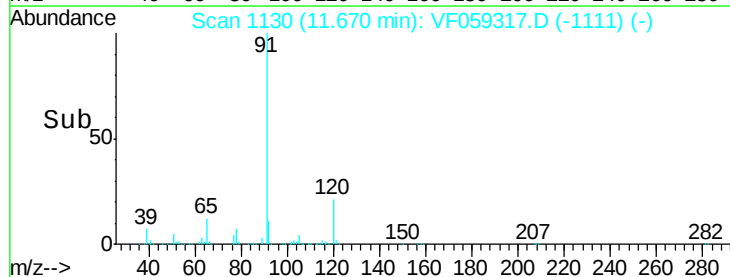
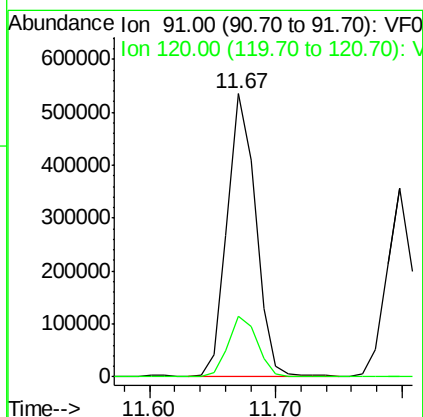
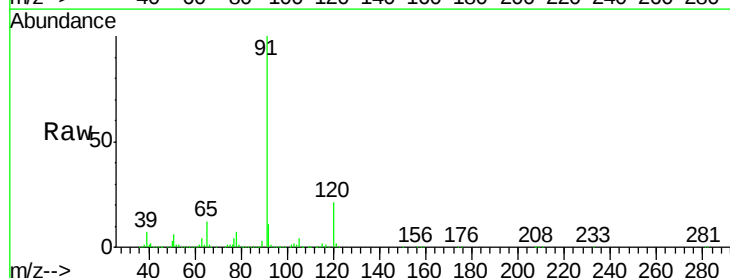
Instrument :
MSVOA_F
ClientSampleId :
WP021SB476-25-27-180619MSD

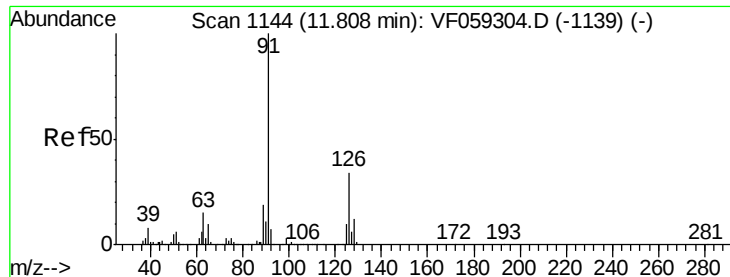
Tot Ion:156 Resp: 187628
Ion Ratio Lower Upper
156 100
77 132.6 79.7 238.9
158 100.5 46.2 138.6



#78
n-propylbenzene
Concen: 48.861 ug/l
RT: 11.67 min Scan# 1130
Delta R.T. -0.01 min
Lab File: VF059317.D
Acq: 26 Jun 2018 15:22

Tgt Ion: 91 Resp: 838170
Ion Ratio Lower Upper
91 100
120 21.3 11.7 35.0





#79

2-Chlorotoluene

Concen: 49.199 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

Instrument :

MSVOA_F

ClientSampleId :

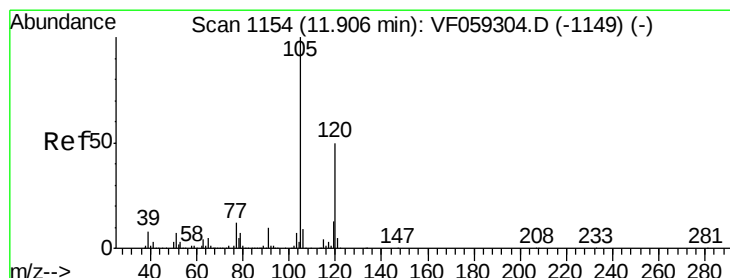
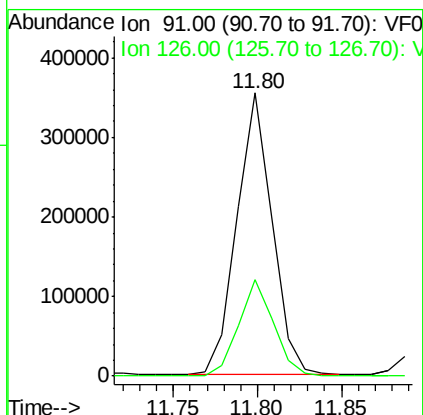
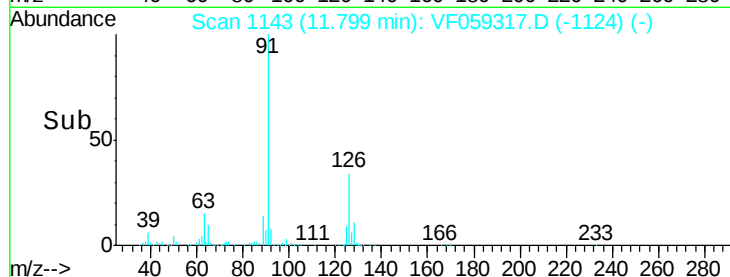
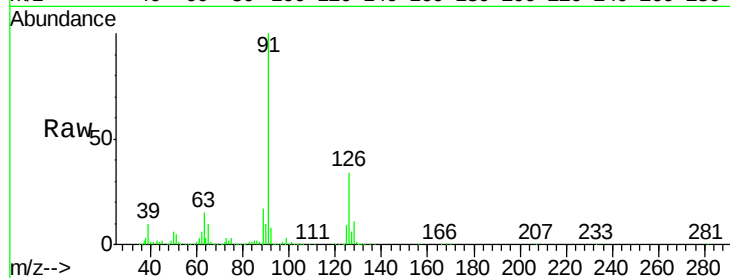
WP021SB476-25-27-180619MSD

Tot Ion: 91 Resp: 515624

Ion Ratio Lower Upper

91 100

126 33.9 17.2 51.5



#80

1,3,5-Trimethylbenzene

Concen: 49.112 ug/l

RT: 11.90 min Scan# 1153

Delta R.T. -0.01 min

Lab File: VF059317.D

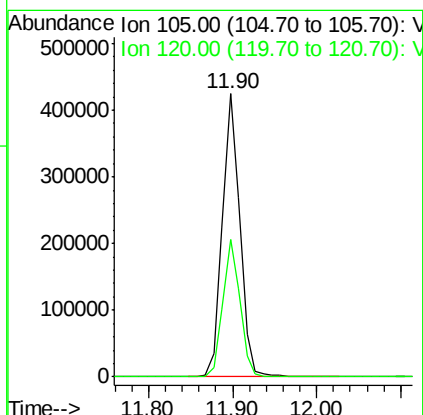
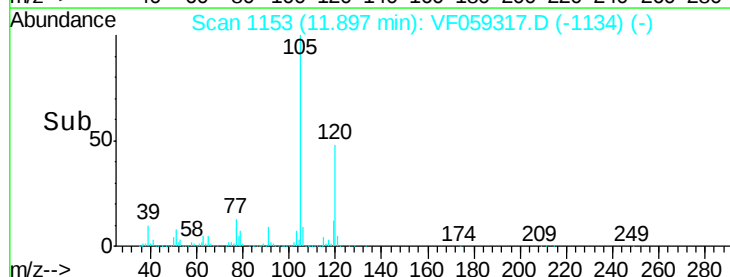
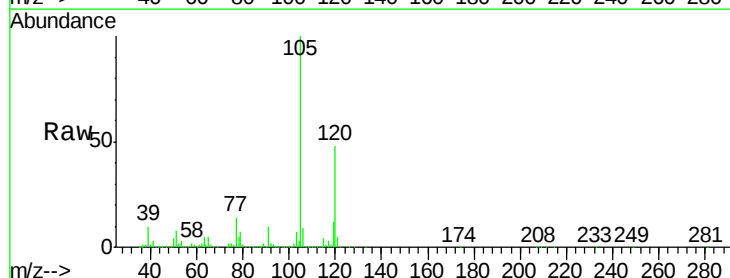
Acq: 26 Jun 2018 15:22

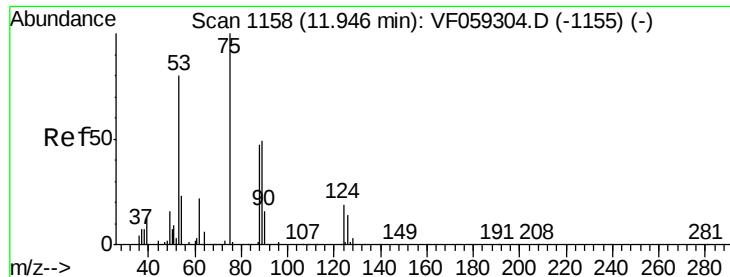
Tgt Ion: 105 Resp: 614491

Ion Ratio Lower Upper

105 100

120 48.5 24.9 74.7





#81

trans-1,4-Dichloro-2-butene

Concen: 48.923 ug/l

RT: 11.95 min Scan# 1158

Delta R.T. 0.00 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

Instrument :

MSVOA_F

ClientSampleId :

WP021SB476-25-27-180619MSD

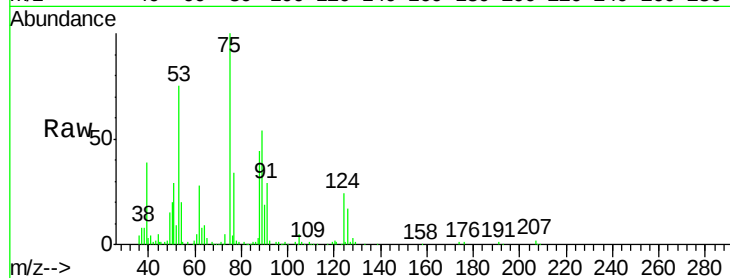
Tot Ion: 75 Resp: 79235

Ion Ratio Lower Upper

75 100

53 75.1 68.8 103.2

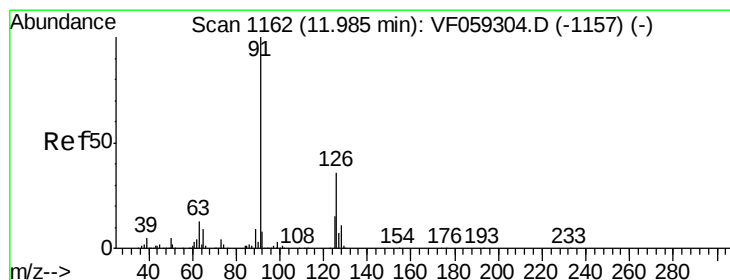
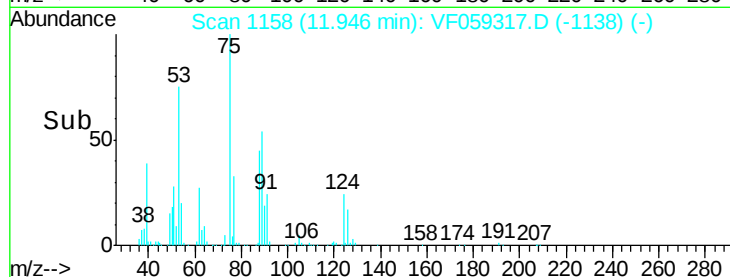
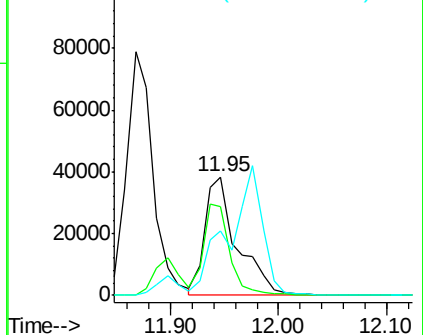
89 54.3 42.0 63.0



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 48.520 ug/l

RT: 11.98 min Scan# 1161

Delta R.T. -0.01 min

Lab File: VF059317.D

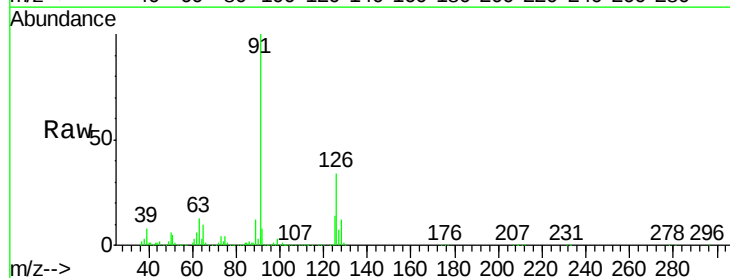
Acq: 26 Jun 2018 15:22

Tgt Ion: 91 Resp: 544666

Ion Ratio Lower Upper

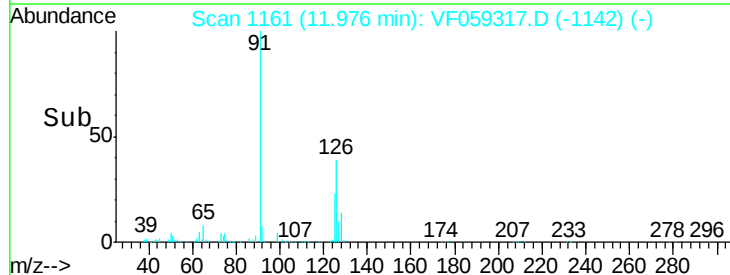
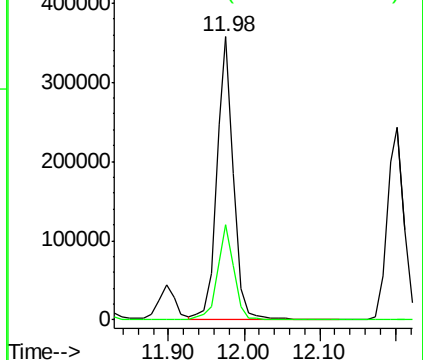
91 100

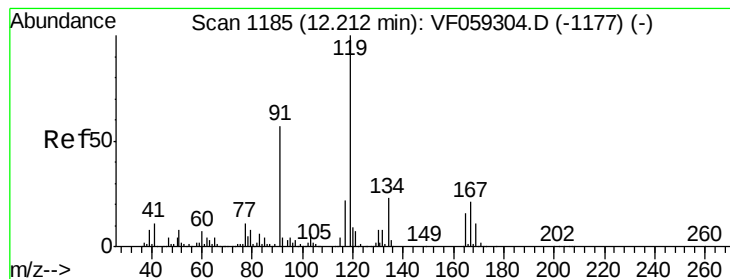
126 33.6 18.2 54.6



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V





#83

tert-Butylbenzene

Concen: 49.368 ug/l

RT: 12.20 min Scan# 1184

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

Instrument :

MSVOA_F

ClientSampleId :

WP021SB476-25-27-180619MSD

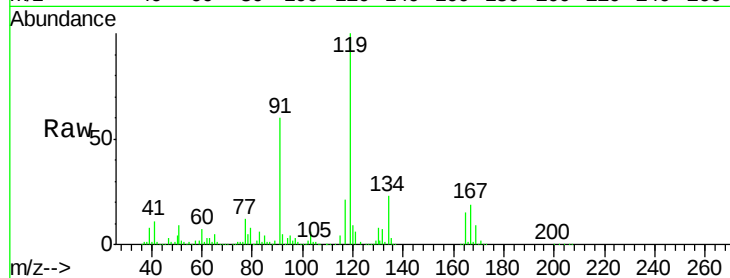
Tot Ion:119 Resp: 617790

Ion Ratio Lower Upper

119 100

91 59.8 28.4 85.2

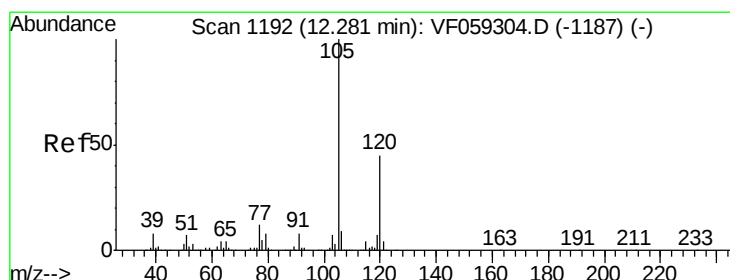
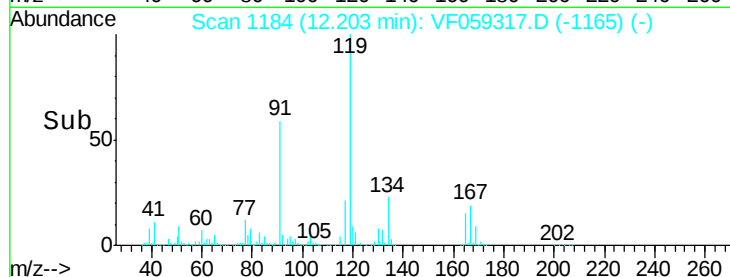
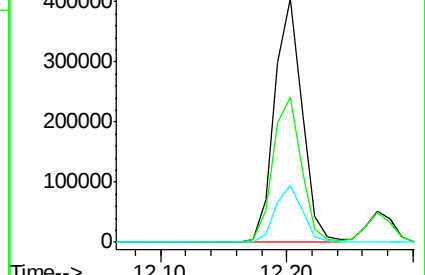
134 23.5 11.7 35.1



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: 48.395 ug/l

RT: 12.27 min Scan# 1191

Delta R.T. -0.01 min

Lab File: VF059317.D

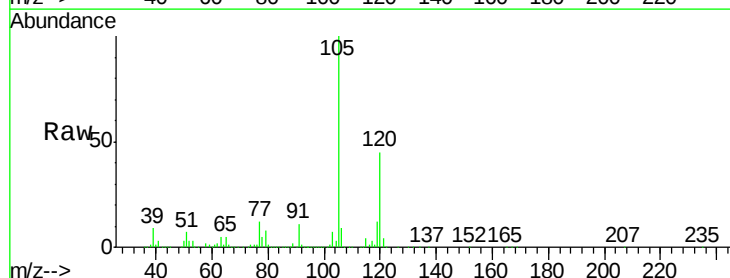
Acq: 26 Jun 2018 15:22

Tgt Ion:105 Resp: 637729

Ion Ratio Lower Upper

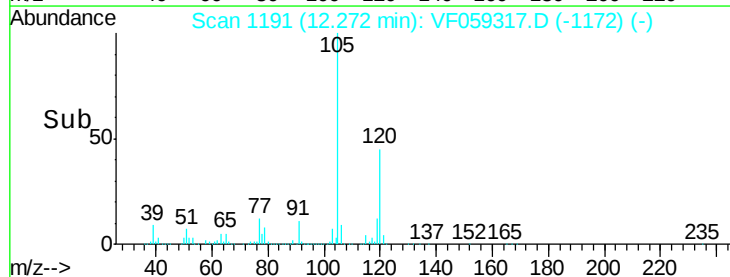
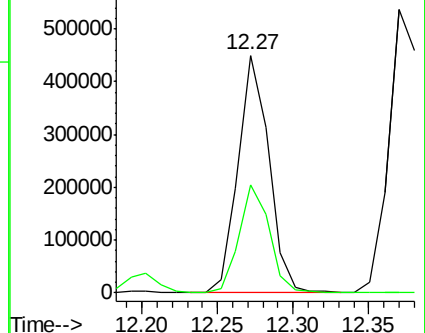
105 100

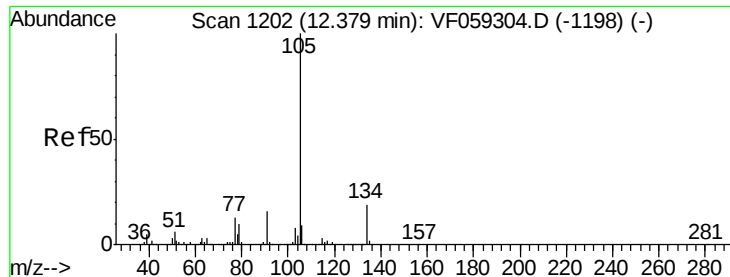
120 45.4 22.8 68.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 49.036 ug/l

RT: 12.37 min Scan# 1201

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

Instrument :

MSVOA_F

ClientSampleId :

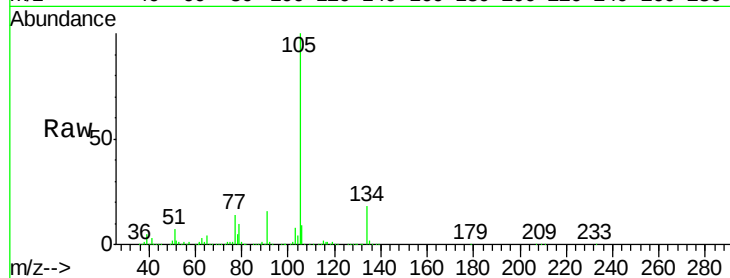
WP021SB476-25-27-180619MSD

Tot Ion:105 Resp: 813395

Ion Ratio Lower Upper

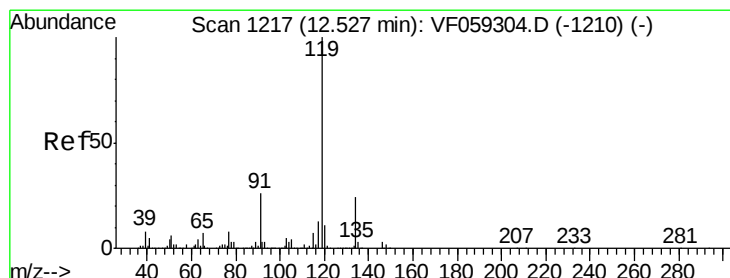
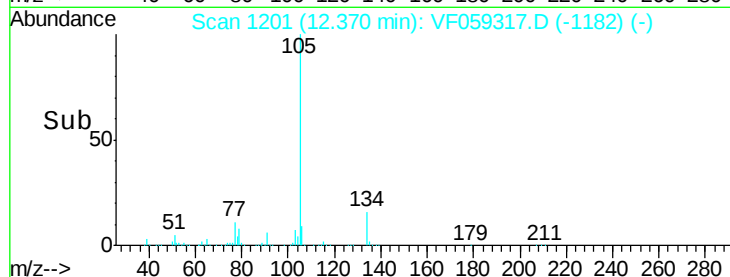
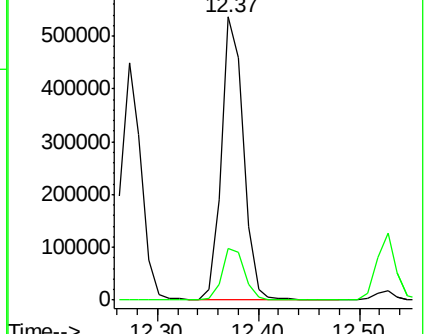
105 100

134 18.3 9.4 28.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 48.177 ug/l

RT: 12.53 min Scan# 1217

Delta R.T. 0.00 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

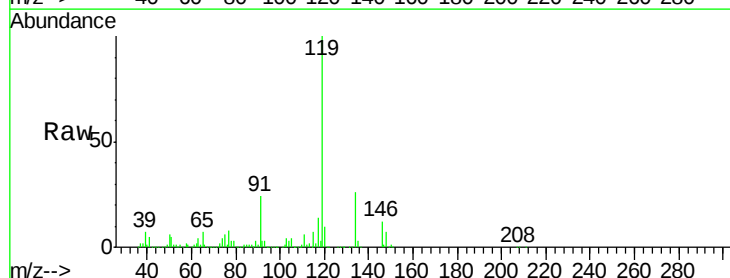
Tgt Ion:119 Resp: 670662

Ion Ratio Lower Upper

119 100

134 26.1 12.2 36.4

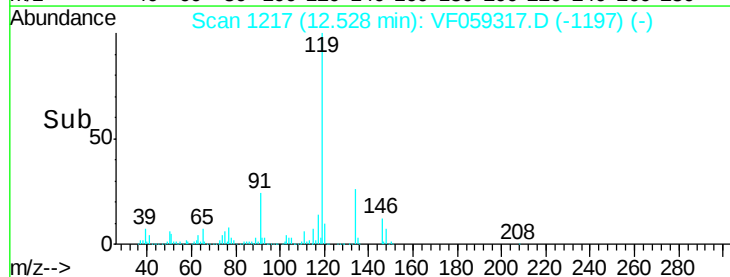
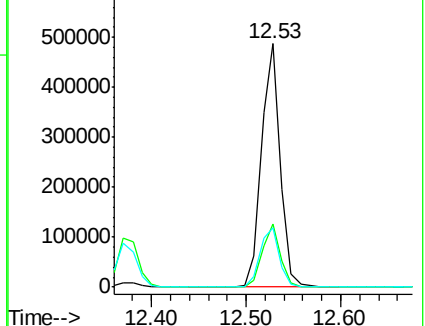
91 24.4 12.9 38.6

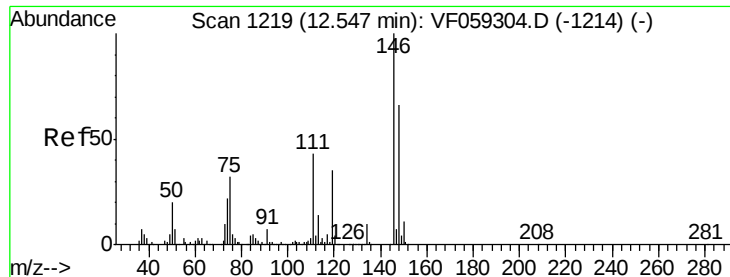


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0





#87

1,3-Dichlorobenzene

Concen: 52.428 ug/l

RT: 12.55 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

Instrument :

MSVOA_F

ClientSampleId :

WP021SB476-25-27-180619MSD

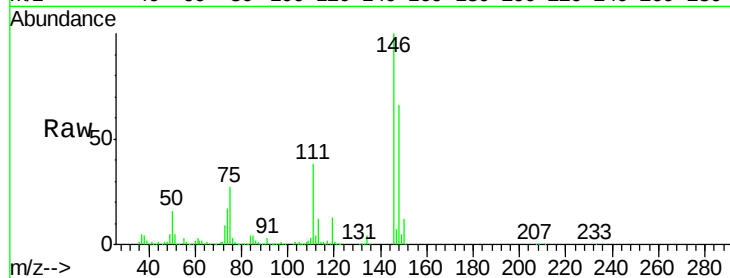
Tot Ion:146 Resp: 341565

Ion Ratio Lower Upper

146 100

111 38.5 21.4 64.2

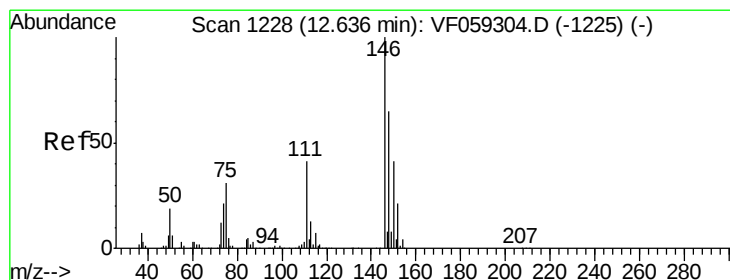
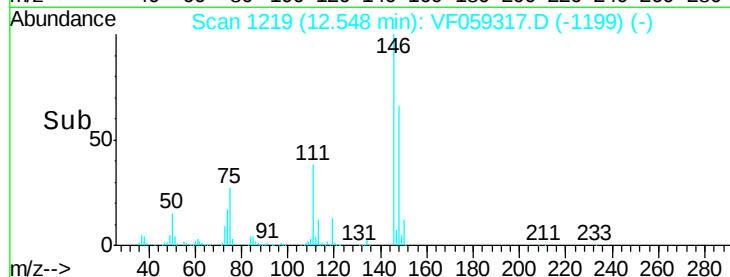
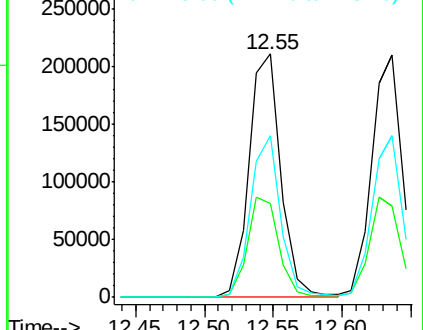
148 66.3 32.8 98.4



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: 46.513 ug/l

RT: 12.64 min Scan# 1228

Delta R.T. 0.00 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

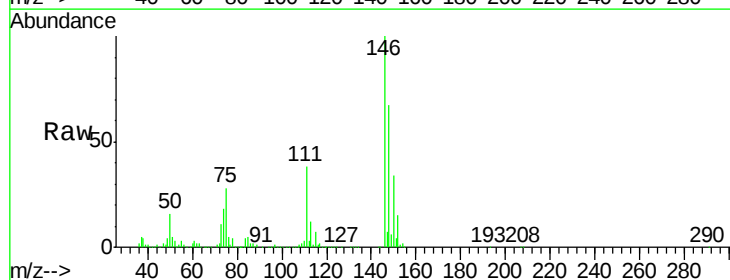
Tgt Ion:146 Resp: 329188

Ion Ratio Lower Upper

146 100

111 37.5 20.7 62.1

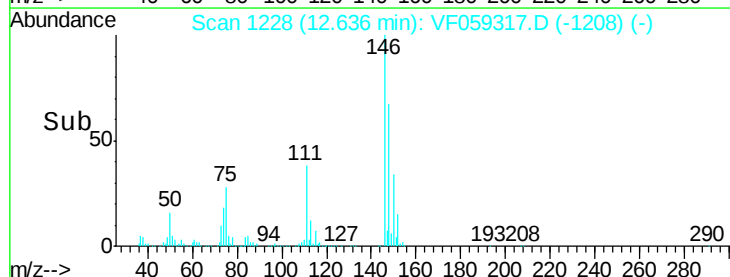
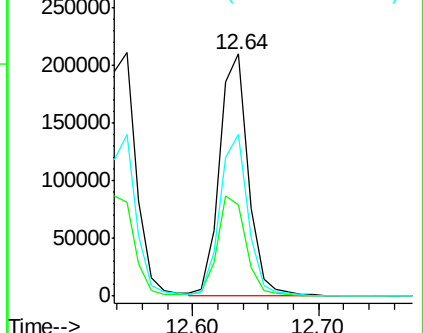
148 67.0 32.8 98.3

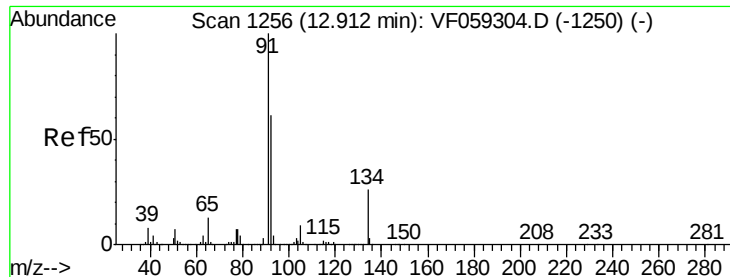


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#89

n-Butylbenzene

Concen: 46.879 ug/l

RT: 12.90 min Scan# 1255

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

Instrument :

MSVOA_F

ClientSampleId :

WP021SB476-25-27-180619MSD

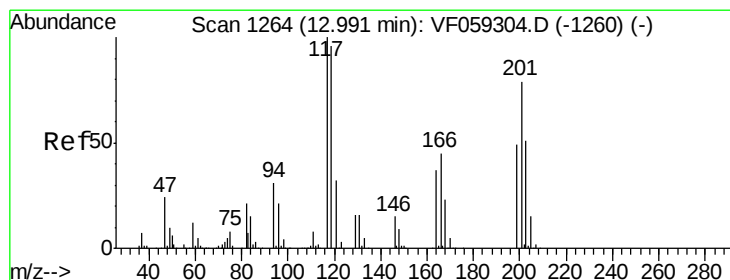
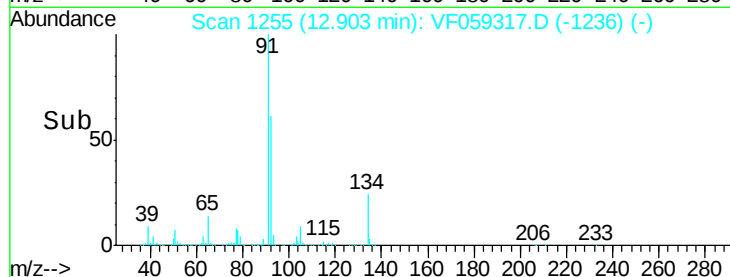
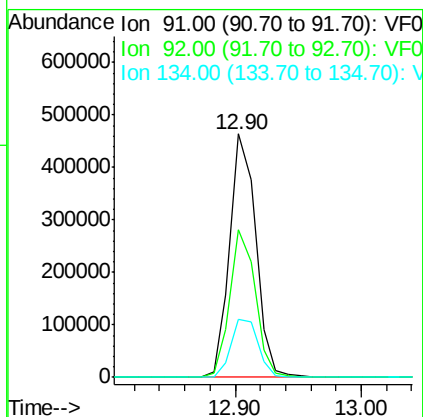
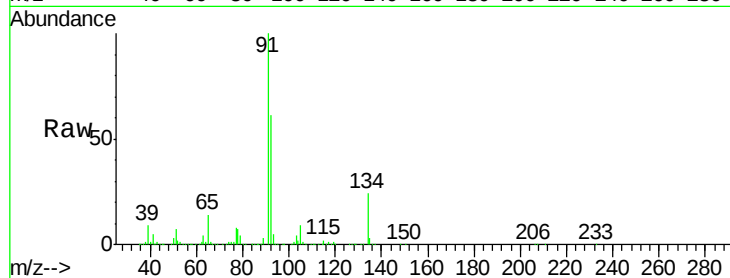
Tot Ion: 91 Resp: 662480

Ion Ratio Lower Upper

91 100

92 60.6 30.3 91.0

134 23.8 12.9 38.7



#90

Hexachloroethane

Concen: 47.708 ug/l

RT: 12.98 min Scan# 1263

Delta R.T. -0.01 min

Lab File: VF059317.D

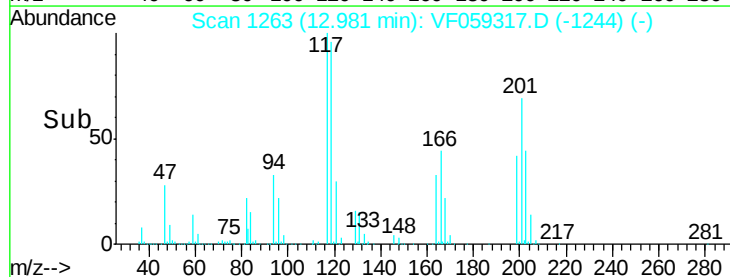
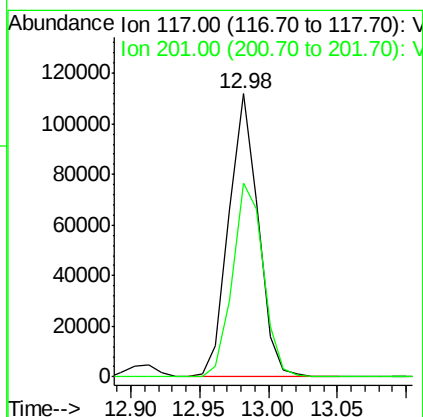
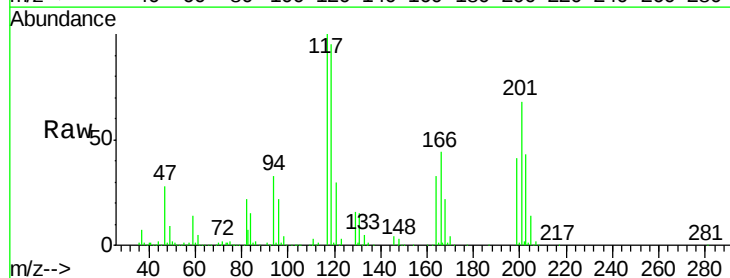
Acq: 26 Jun 2018 15:22

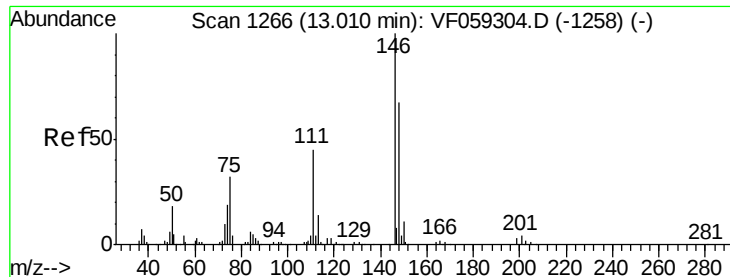
Tgt Ion: 117 Resp: 165526

Ion Ratio Lower Upper

117 100

201 68.5 39.5 118.5





#91

1,2-Dichlorobenzene

Concen: 47.282 ug/l

RT: 13.01 min Scan# 1266

Delta R.T. 0.00 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

Instrument :

MSVOA_F

ClientSampleId :

WP021SB476-25-27-180619MSD

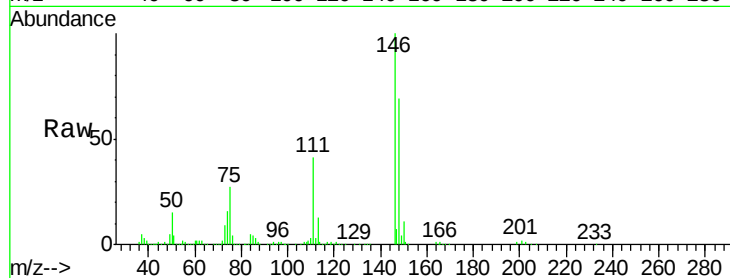
Tot Ion:146 Resp: 340165

Ion Ratio Lower Upper

146 100

111 40.9 22.7 68.0

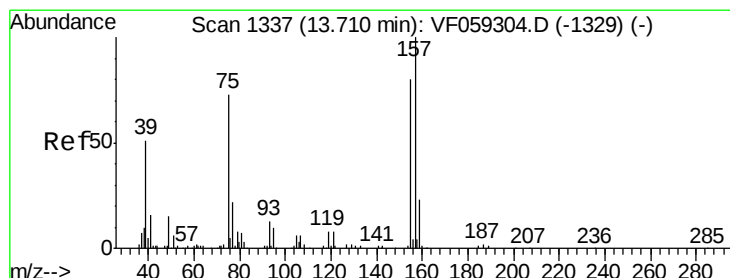
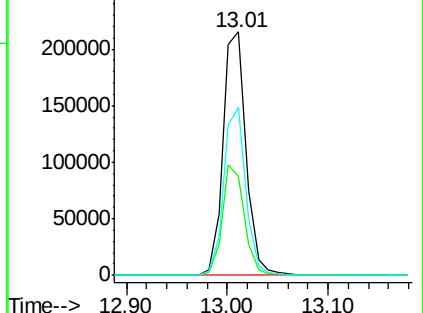
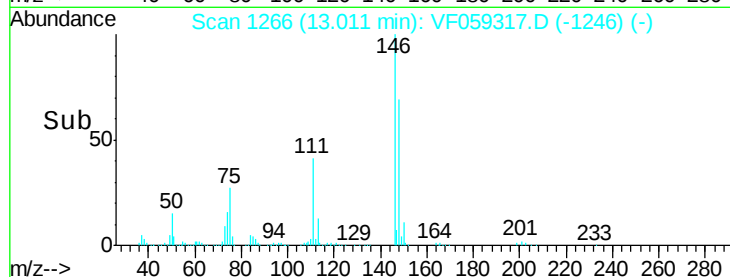
148 68.9 33.5 100.4



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: 49.483 ug/l

RT: 13.70 min Scan# 1336

Delta R.T. -0.01 min

Lab File: VF059317.D

Acq: 26 Jun 2018 15:22

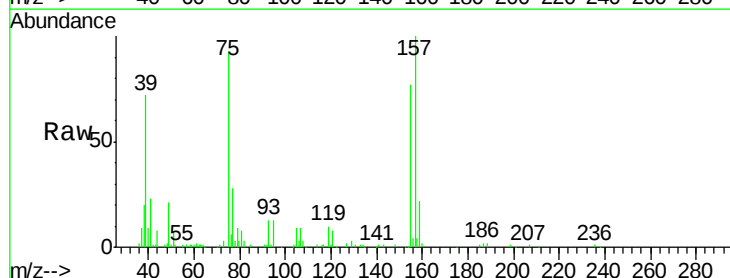
Tgt Ion: 75 Resp: 39571

Ion Ratio Lower Upper

75 100

155 82.7 54.6 163.8

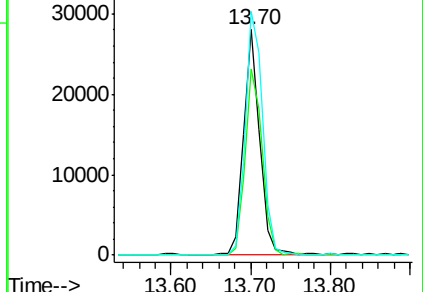
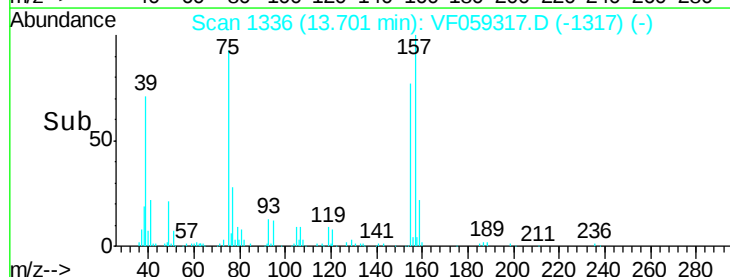
157 108.0 68.7 205.9

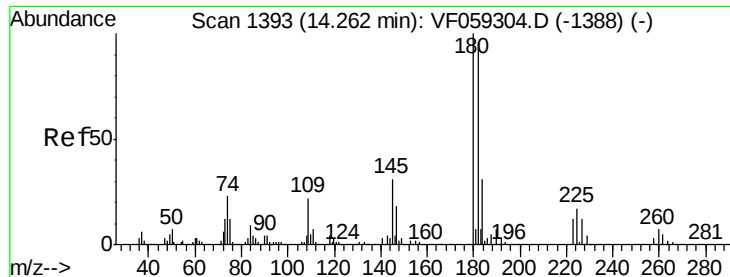


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

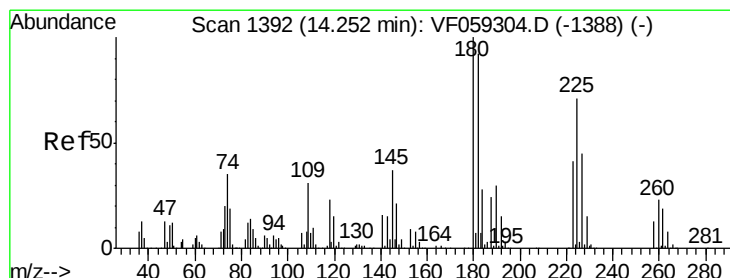
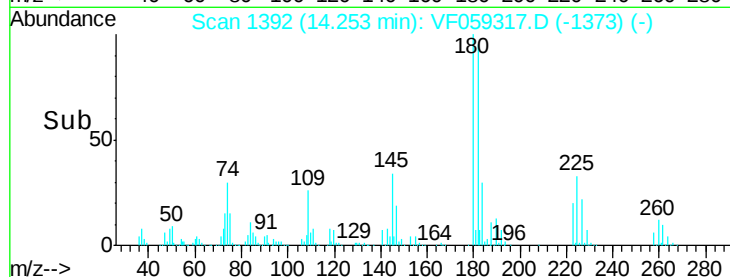
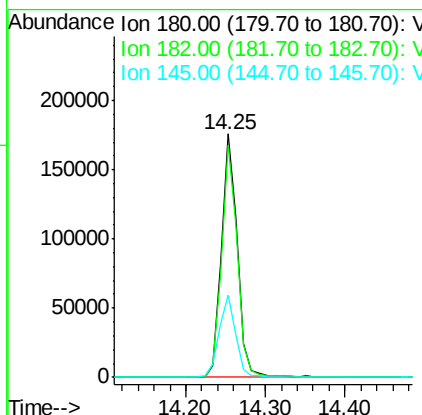
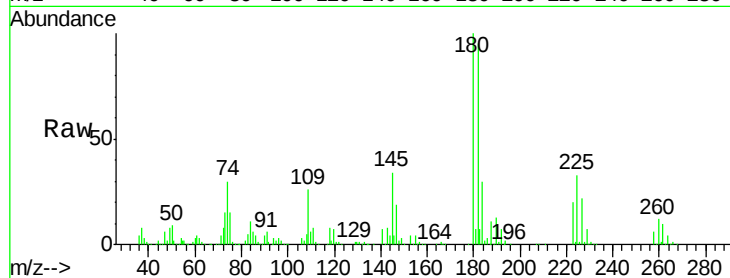




#93
 1,2,4-Trichlorobenzene
 Concen: 46.938 ug/l
 RT: 14.25 min Scan# 1392
 Delta R.T. -0.01 min
 Lab File: VF059317.D
 Acq: 26 Jun 2018 15:22

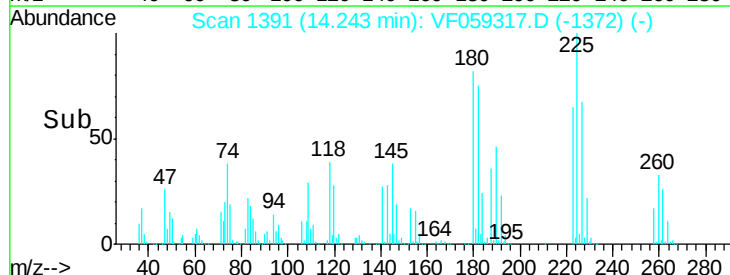
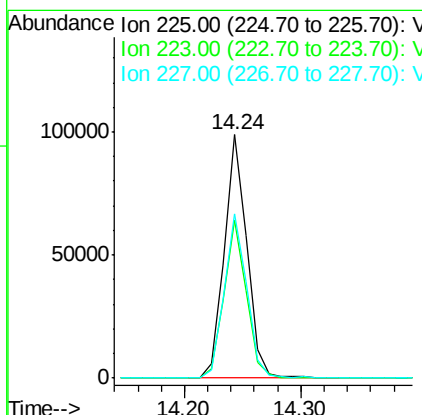
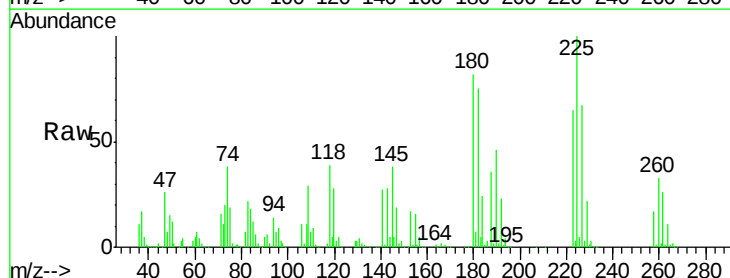
Instrument :
 MSVOA_F
 ClientSampleId :
 WP021SB476-25-27-180619MSD

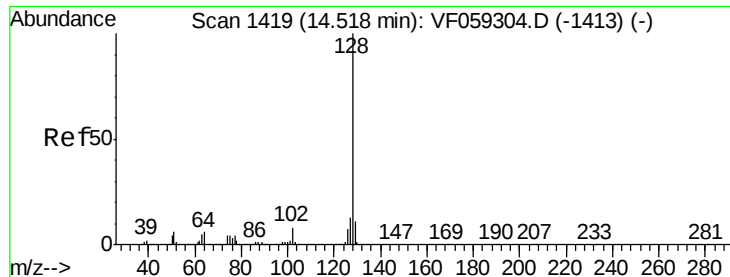
Tot Ion:180 Resp: 249695
 Ion Ratio Lower Upper
 180 100
 182 95.3 48.1 144.3
 145 34.0 15.3 45.8



#94
 Hexachlorobutadiene
 Concen: 44.732 ug/l
 RT: 14.24 min Scan# 1391
 Delta R.T. -0.01 min
 Lab File: VF059317.D
 Acq: 26 Jun 2018 15:22

Tgt Ion:225 Resp: 132914
 Ion Ratio Lower Upper
 225 100
 223 64.7 28.9 86.8
 227 67.4 31.3 93.8

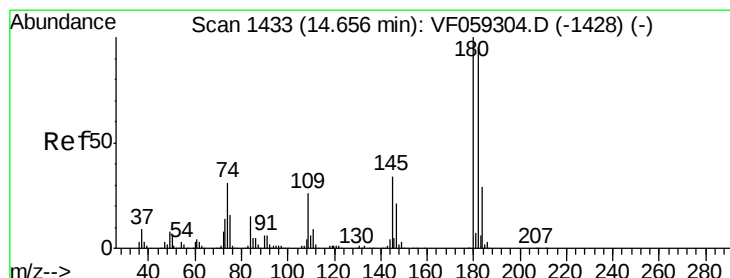
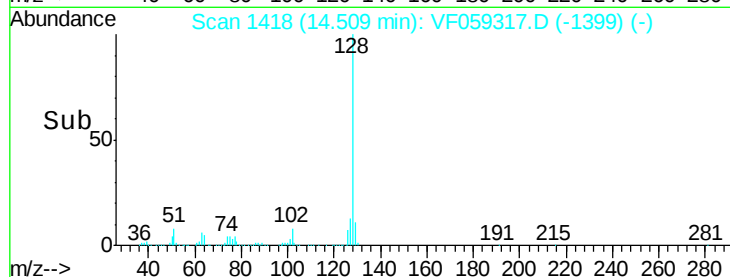
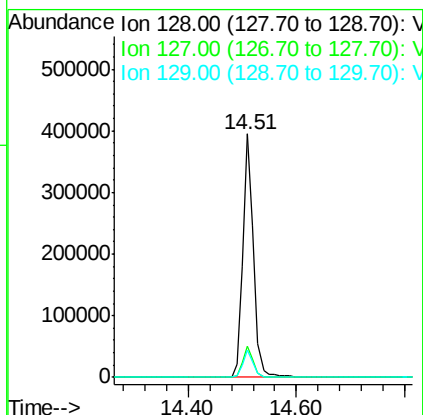
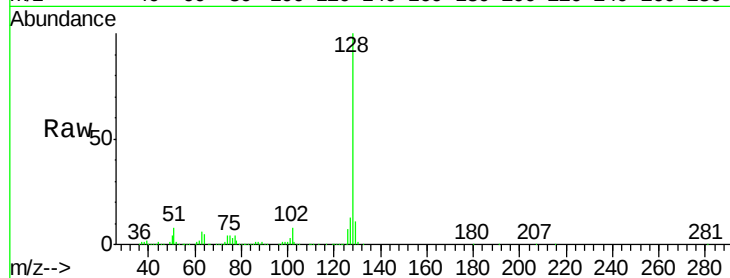




#95
Naphthalene
Concen: 49.437 ug/l
RT: 14.51 min Scan# 1418
Delta R.T. -0.01 min
Lab File: VF059317.D
Acq: 26 Jun 2018 15:22

Instrument :
MSVOA_F
ClientSampleId :
WP021SB476-25-27-180619MSD

Tot Ion:128 Resp: 550241
Ion Ratio Lower Upper
128 100
127 12.8 10.1 15.1
129 11.1 8.8 13.2



#96
1,2,3-Trichlorobenzene
Concen: 46.841 ug/l
RT: 14.66 min Scan# 1433
Delta R.T. 0.00 min
Lab File: VF059317.D
Acq: 26 Jun 2018 15:22

Tgt Ion:180 Resp: 236049
Ion Ratio Lower Upper
180 100
182 99.0 47.5 142.5
145 31.1 17.0 50.9

