

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070518\
 Data File : VF059429.D
 Acq On : 5 Jul 2018 12:58
 Operator : VA/AP
 Sample : VF0705SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jul 06 02:03:36 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	5.01	168	265074	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.72	114	384700	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.88	117	400239	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.61	152	258378	50.00	ug/l	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.99	65	159082	46.45	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	92.90%	
35) Dibromofluoromethane	4.26	113	139202	49.52	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	99.04%	
50) Toluene-d8	7.68	98	326832	46.96	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	93.92%	
62) 4-Bromofluorobenzene	11.48	95	184176	46.91	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	93.82%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	0.97	85	54421	22.471	ug/l 91
3) Chloromethane	1.07	50	29987	18.431	ug/l 91
4) Vinyl Chloride	1.13	62	31881	19.907	ug/l 93
5) Bromomethane	1.33	94	19265	18.249	ug/l 98
6) Chloroethane	1.42	64	15785	19.569	ug/l 100
7) Trichlorofluoromethane	1.47	101	23872	7.538	ug/l 95
8) Diethyl Ether	1.68	74	15614	19.229	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	1.88	101	35942	19.443	ug/l 95
10) Methyl Iodide	1.95	142	68404	20.292	ug/l 93
11) Tert butyl alcohol	2.66	59	24504	107.476	ug/l 94
12) 1,1-Dichloroethene	1.84	96	34596	22.138	ug/l 95
13) Acrolein	2.07	56	12153	100.204	ug/l 97
14) Allyl chloride	2.17	41	66897	22.804	ug/l 98
15) Acrylonitrile	3.04	53	44213	110.120	ug/l 91
16) Acetone	2.31	43	111731	125.555	ug/l 98
17) Carbon Disulfide	1.86	76	73786	20.072	ug/l # 94
18) Methyl Acetate	2.43	43	34284	21.517	ug/l # 91
19) Methyl tert-butyl Ether	2.52	73	133811	22.956	ug/l 96
20) Methylene Chloride	2.25	84	20319	3.743	ug/l 96
21) trans-1,2-Dichloroethene	2.38	96	36329	21.792	ug/l 98
22) Diisopropyl ether	2.91	45	152564	23.485	ug/l 95
23) Vinyl Acetate	3.30	43	483888	116.961	ug/l 97
24) 1,1-Dichloroethane	2.97	63	95900	23.810	ug/l 97
25) 2-Butanone	4.47	43	123901	118.145	ug/l 99
26) 2,2-Dichloropropane	3.73	77	65608	23.617	ug/l 99
27) cis-1,2-Dichloroethene	3.60	96	56731	22.414	ug/l 81
28) Bromochloromethane	3.85	49	41143	24.429	ug/l 92
29) Tetrahydrofuran	4.22	42	51526	112.088	ug/l 96
30) Chloroform	4.00	83	130034	22.301	ug/l 98
31) Cyclohexane	3.84	56	58295	22.094	ug/l # 79
32) 1,1,1-Trichloroethane	4.24	97	98521	23.089	ug/l 93
36) 1,1-Dichloropropene	4.41	75	82573	24.570	ug/l 97
37) Ethyl Acetate	4.26	43	55665	25.157	ug/l # 98
38) Carbon Tetrachloride	4.13	117	120502	28.413	ug/l 93

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070518\
 Data File : VF059429.D
 Acq On : 5 Jul 2018 12:58
 Operator : VA/AP
 Sample : VF0705SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jul 06 02:03:36 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)
39) Methylcyclohexane	5.59	83	69741	23.418	ug/l	95
40) Benzene	4.77	78	170025	22.818	ug/l	99
41) Methacrylonitrile	4.88	41	25884	22.579	ug/l #	95
42) 1,2-Dichloroethane	5.07	62	104025	23.891	ug/l	99
43) Isopropyl Acetate	7.08	43	63502	22.685	ug/l #	81
44) Trichloroethene	5.64	130	60777	23.777	ug/l	98
45) 1,2-Dichloropropane	6.37	63	48271	22.674	ug/l	98
46) Dibromomethane	6.22	93	42887	23.210	ug/l	99
47) Bromodichloromethane	6.51	83	109664	24.518	ug/l	99
48) Methyl methacrylate	6.84	41	43751	23.320	ug/l	99
49) 1,4-Dioxane	6.83	88	4012	374.162	ug/l #	80
51) 4-Methyl-2-Pentanone	8.38	43	255188	123.051	ug/l	99
52) Toluene	7.75	92	118098	21.181	ug/l	91
53) t-1,3-Dichloropropene	8.40	75	106404	26.098	ug/l	97
54) cis-1,3-Dichloropropene	7.42	75	104425	23.580	ug/l	91
55) 1,1,2-Trichloroethane	8.60	97	51046	23.580	ug/l	93
56) Ethyl methacrylate	8.73	69	58548	21.832	ug/l	97
57) 1,3-Dichloropropane	8.97	76	87077	23.453	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.75	63	23337	116.031	ug/l	100
59) 2-Hexanone	9.60	43	203579	122.017	ug/l	99
60) Dibromochloromethane	8.83	129	78584	23.513	ug/l	95
61) 1,2-Dibromoethane	9.11	107	59939	22.830	ug/l	88
64) Tetrachloroethene	8.27	164	61758	23.791	ug/l	97
65) Chlorobenzene	9.90	112	165629	22.333	ug/l	96
66) 1,1,1,2-Tetrachloroethane	10.04	131	72607	22.636	ug/l	95
67) Ethyl Benzene	10.00	91	283694	22.548	ug/l	97
68) m/p-Xylenes	10.24	106	203814	45.513	ug/l	96
69) o-Xylene	10.80	106	114558	22.871	ug/l	95
70) Styrene	10.87	104	175459	22.996	ug/l	96
71) Bromoform	10.86	173	50716	23.068	ug/l	96
73) Isopropylbenzene	11.21	105	353303	23.471	ug/l	98
74) N-amyl acetate	11.44	43	123144	22.544	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.77	83	83640	22.002	ug/l	99
76) 1,2,3-Trichloropropane	11.87	75	63299	22.074	ug/l	99
77) Bromobenzene	11.57	156	93325	22.347	ug/l	94
78) n-propylbenzene	11.66	91	409463	22.650	ug/l	92
79) 2-Chlorotoluene	11.79	91	252436	22.856	ug/l	99
80) 1,3,5-Trimethylbenzene	11.89	105	308434	23.392	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.93	75	34387	20.148	ug/l	95
82) 4-Chlorotoluene	11.96	91	258305	21.835	ug/l	94
83) tert-Butylbenzene	12.19	119	308040	23.358	ug/l	94
84) 1,2,4-Trimethylbenzene	12.27	105	311229	22.412	ug/l	100
85) sec-Butylbenzene	12.37	105	409382	23.419	ug/l	98
86) p-Isopropyltoluene	12.52	119	344642	23.493	ug/l	99
87) 1,3-Dichlorobenzene	12.54	146	173001	22.567	ug/l	96
88) 1,4-Dichlorobenzene	12.62	146	165897	22.244	ug/l	97
89) n-Butylbenzene	12.90	91	358575	24.078	ug/l	97
90) Hexachloroethane	12.97	117	85666	23.430	ug/l	77
91) 1,2-Dichlorobenzene	13.00	146	171063	22.563	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.70	75	16381	19.438	ug/l	98

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF070518\
Data File : VF059429.D
Acq On : 5 Jul 2018 12:58
Operator : VA/AP
Sample : VF0705SBS01
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :

Quant Time: Jul 06 02:03:36 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 26 08:45:17 2018
Response via : Initial Calibration

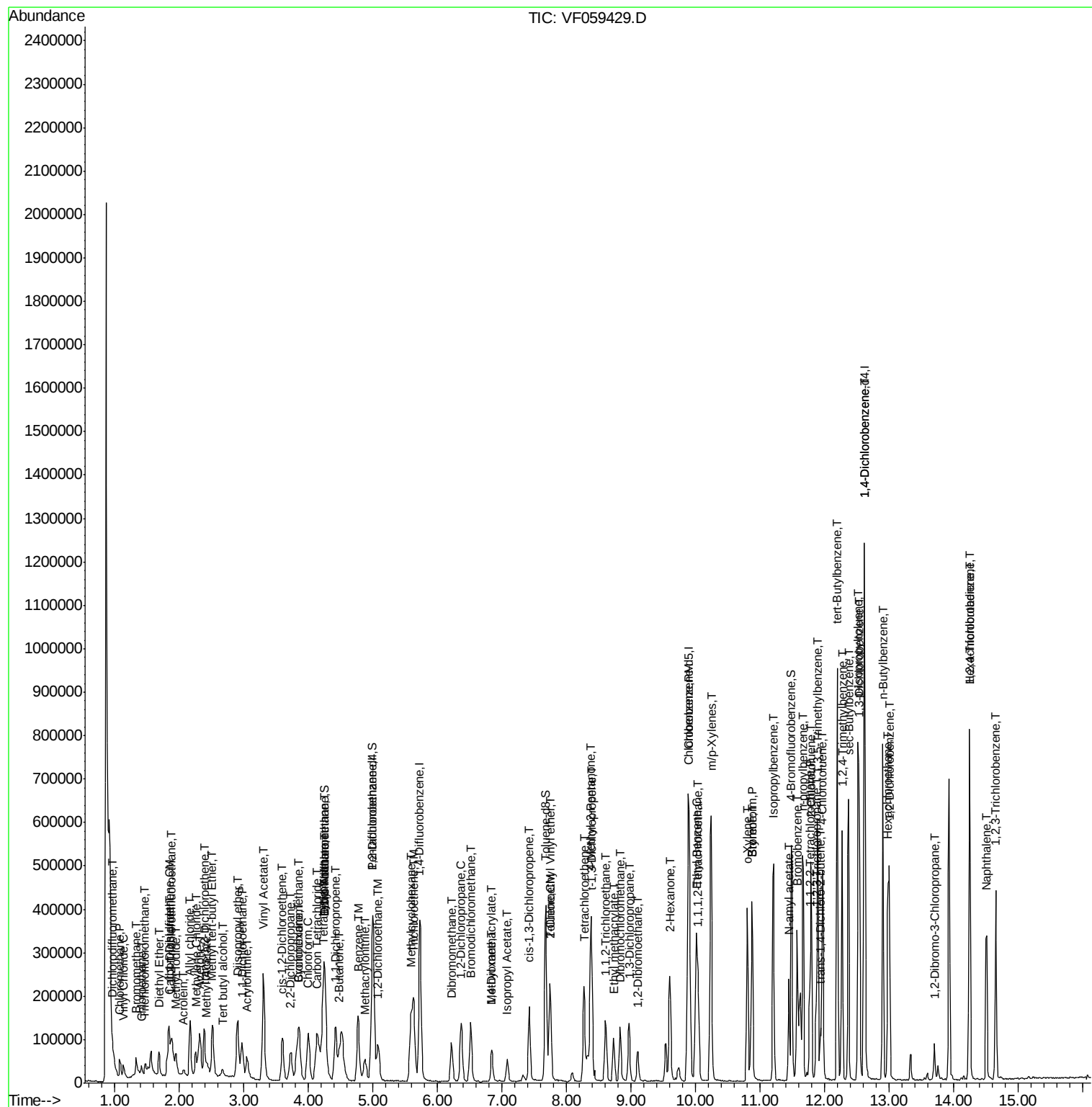
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.25	180	132260	23.593	ug/l	97
94) Hexachlorobutadiene	14.24	225	75118	23.990	ug/l	90
95) Naphthalene	14.51	128	258182	22.012	ug/l	99
96) 1,2,3-Trichlorobenzene	14.65	180	118815	22.373	ug/l	97

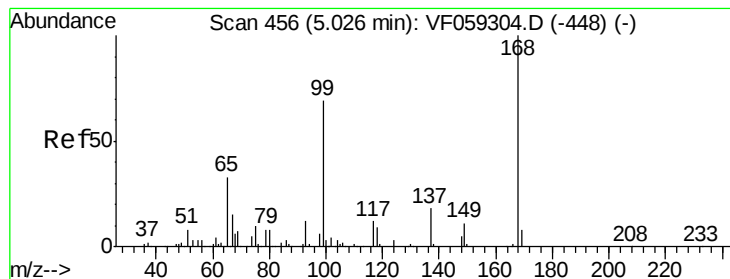
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF070518\
 Data File : VF059429.D
 Acq On : 5 Jul 2018 12:58
 Operator : VA/AP
 Sample : VF0705SBS01
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jul 06 02:03:36 2018
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 26 08:45:17 2018
 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.01 min Scan# 454

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

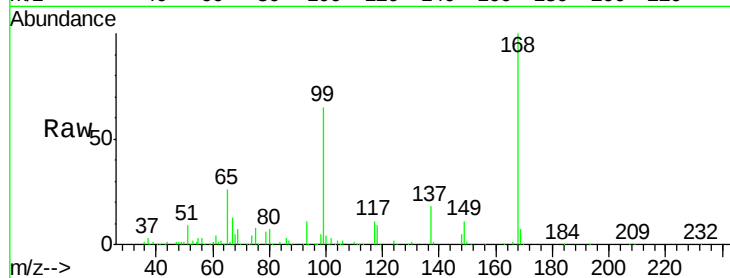
Instrument :
MSVOA_F
ClientSampled :

Tot Ion:168 Resp: 265074

Ion Ratio Lower Upper

168 100

99 64.9 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.01

100000

80000

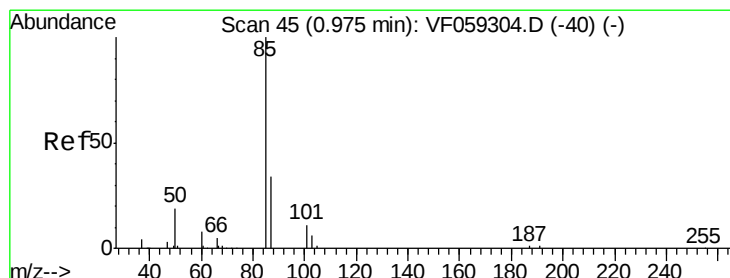
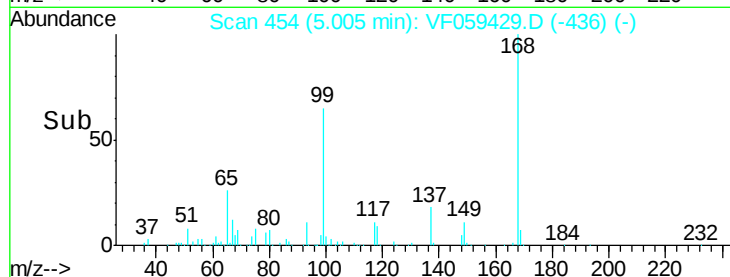
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 22.471 ug/l

RT: 0.97 min Scan# 45

Delta R.T. -0.00 min

Lab File: VF059429.D

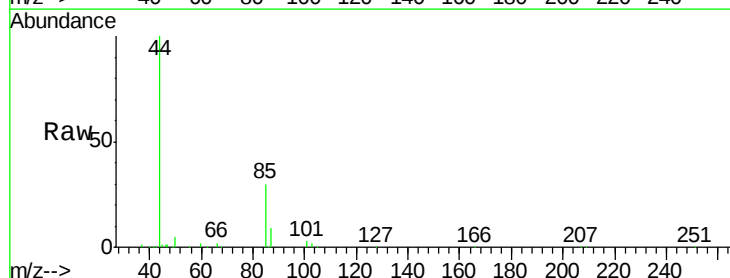
Acq: 5 Jul 2018 12:58

Tgt Ion: 85 Resp: 54421

Ion Ratio Lower Upper

85 100

87 29.0 17.1 51.3



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.97

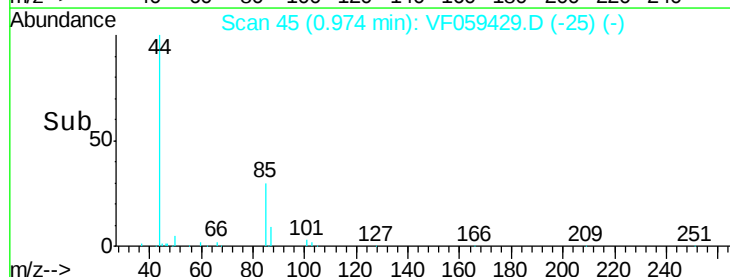
15000

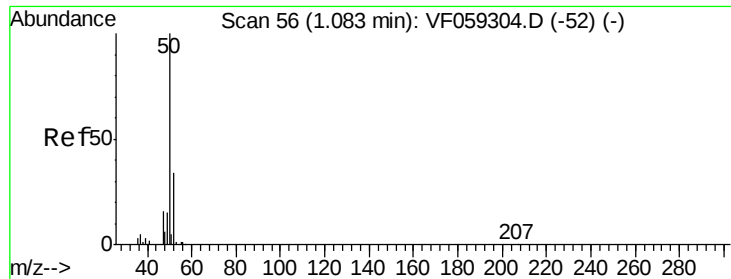
10000

5000

0

Time-->





#3

Chloromethane

Concen: 18.431 ug/l

RT: 1.07 min Scan# 55

Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

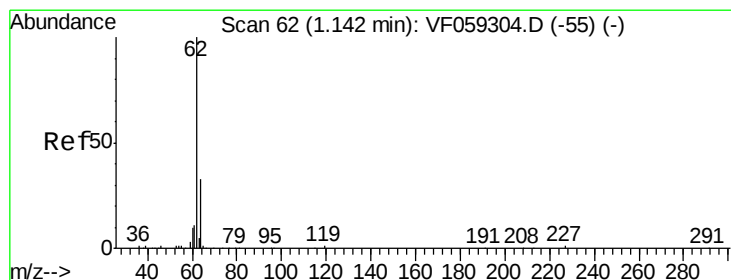
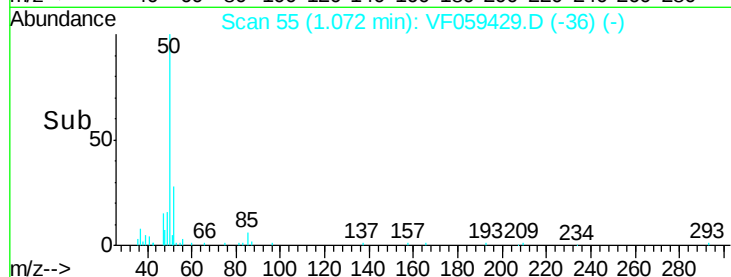
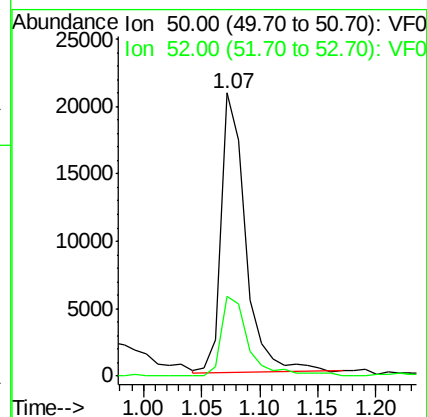
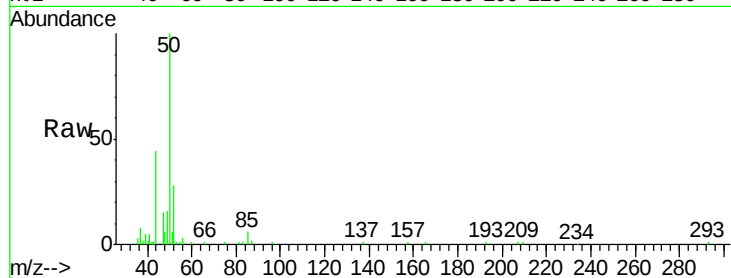
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 50 Resp: 29987

Ion Ratio Lower Upper

50 100

52 28.2 26.7 40.1



#4

Vinyl Chloride

Concen: 19.907 ug/l

RT: 1.13 min Scan# 61

Delta R.T. -0.01 min

Lab File: VF059429.D

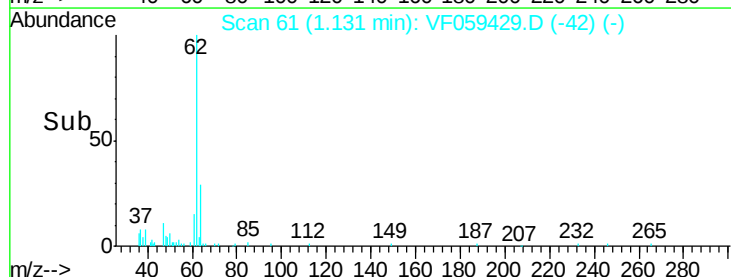
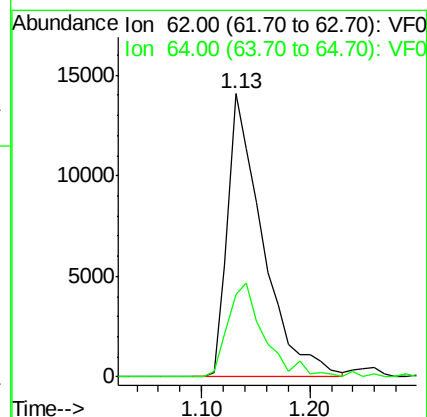
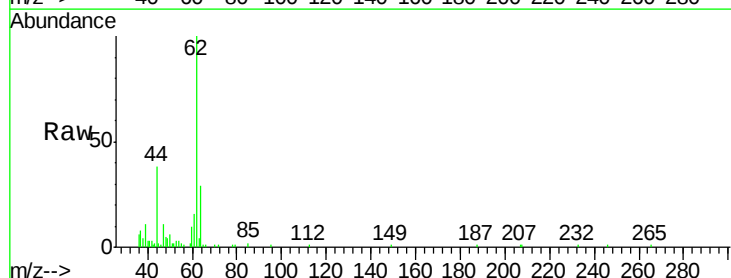
Acq: 5 Jul 2018 12:58

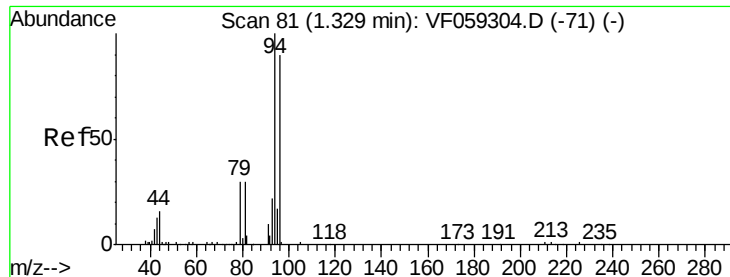
Tgt Ion: 62 Resp: 31881

Ion Ratio Lower Upper

62 100

64 28.9 26.3 39.5





#5

Bromomethane

Concen: 18.249 ug/l

RT: 1.33 min Scan# 81

Delta R.T. -0.00 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

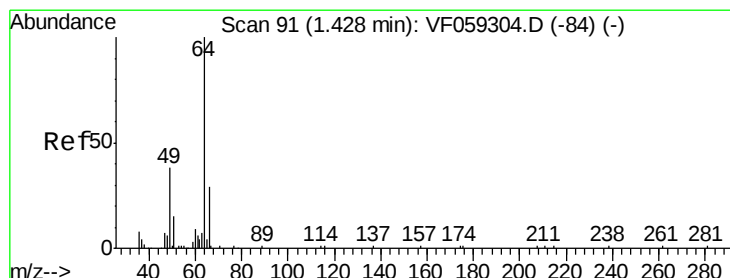
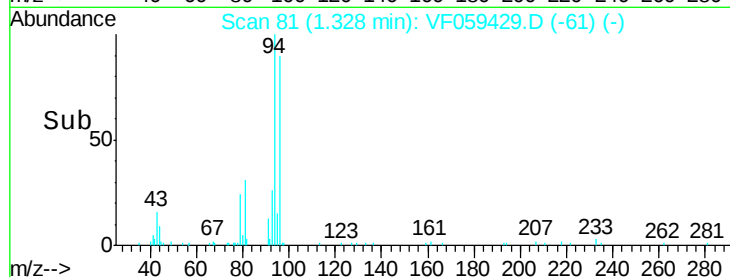
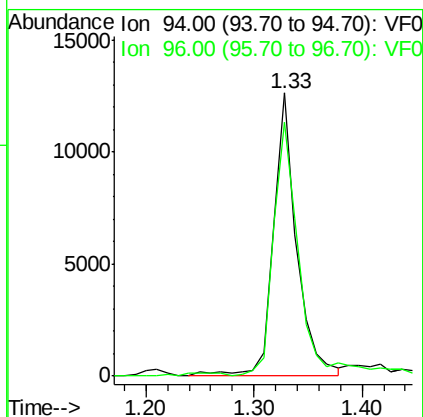
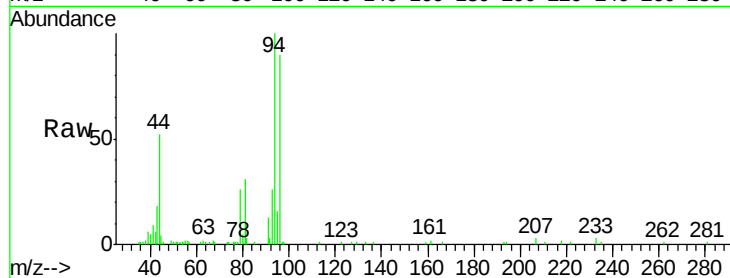
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 94 Resp: 19265

Ion Ratio Lower Upper

94 100

96 89.6 73.4 110.0



#6

Chloroethane

Concen: 19.569 ug/l

RT: 1.42 min Scan# 90

Delta R.T. -0.01 min

Lab File: VF059429.D

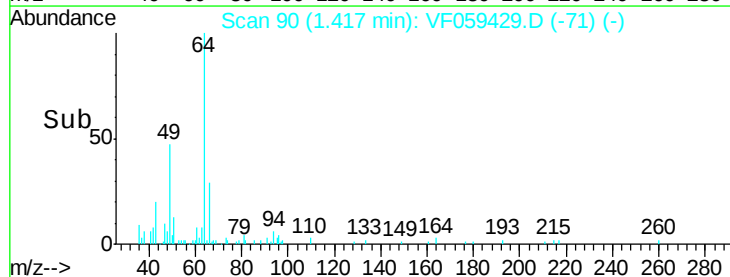
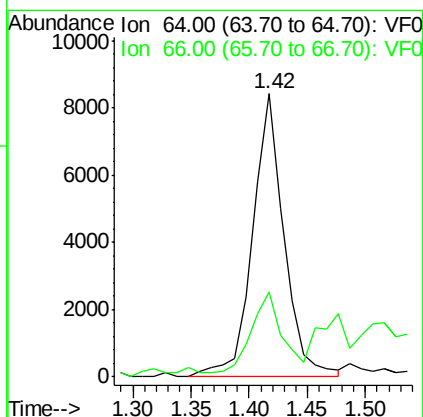
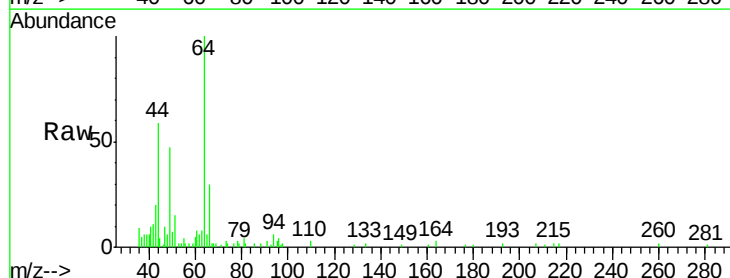
Acq: 5 Jul 2018 12:58

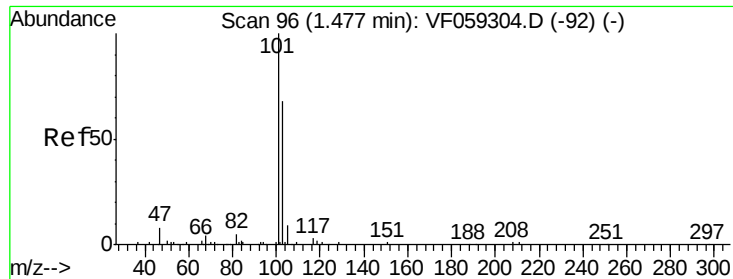
Tgt Ion: 64 Resp: 15785

Ion Ratio Lower Upper

64 100

66 30.1 23.9 35.9





#7

Trichlorofluoromethane

Concen: 7.538 ug/l

RT: 1.47 min Scan# 95

Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

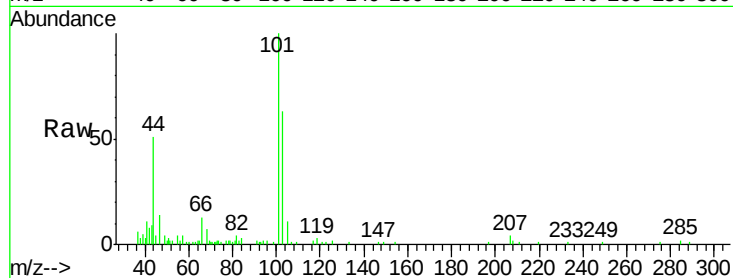
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:101 Resp: 23872

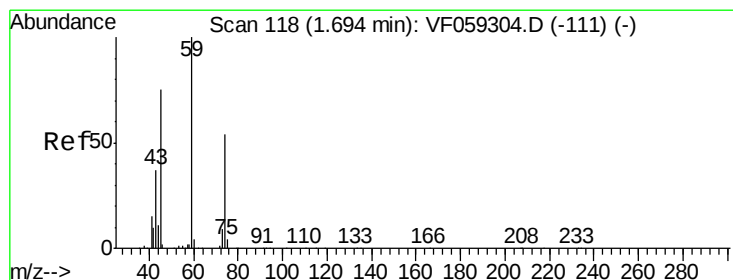
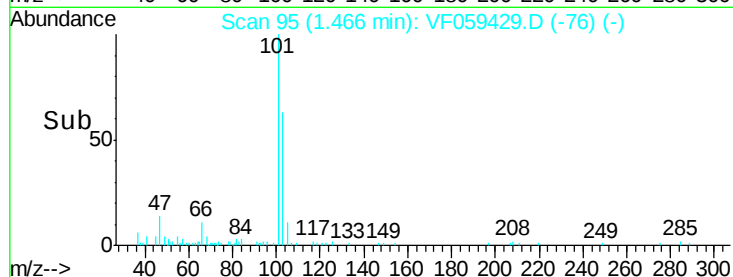
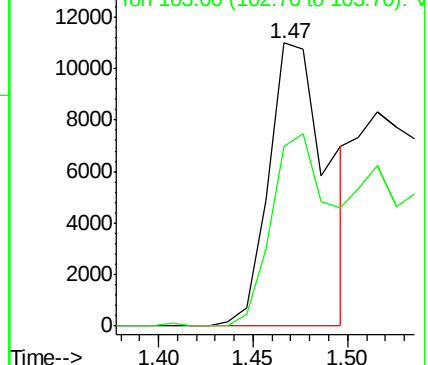
Ion Ratio Lower Upper

101 100

103 63.4 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: 19.229 ug/l

RT: 1.68 min Scan# 117

Delta R.T. -0.01 min

Lab File: VF059429.D

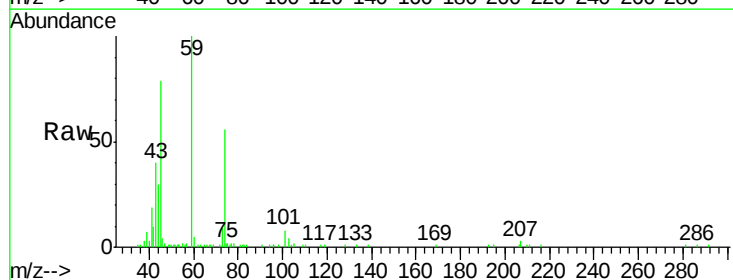
Acq: 5 Jul 2018 12:58

Tgt Ion: 74 Resp: 15614

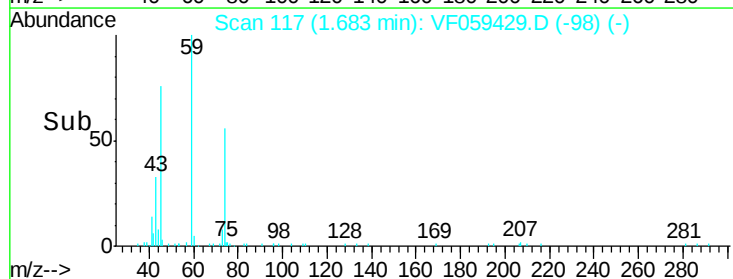
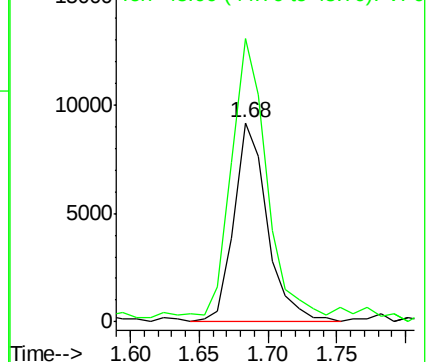
Ion Ratio Lower Upper

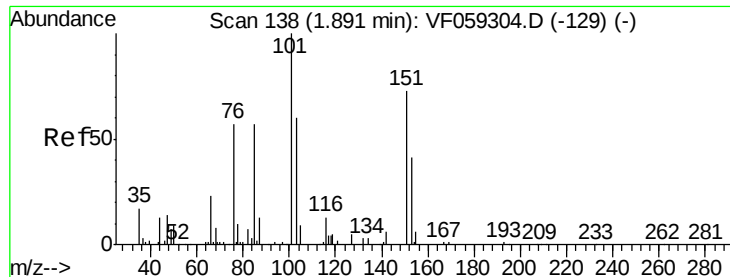
74 100

45 141.9 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: 19.443 ug/l

RT: 1.88 min Scan# 137

Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

ClientSampleId :

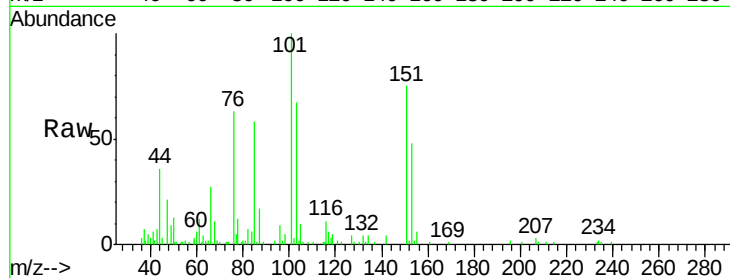
Tot Ion:101 Resp: 35942

Ion Ratio Lower Upper

101 100

85 58.4 44.5 66.7

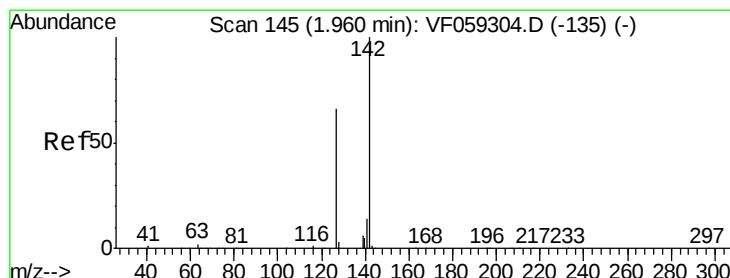
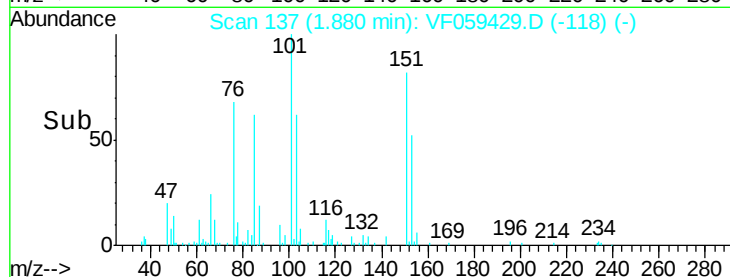
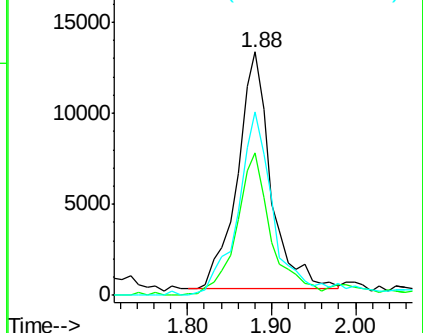
151 75.3 56.8 85.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 20.292 ug/l

RT: 1.95 min Scan# 144

Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

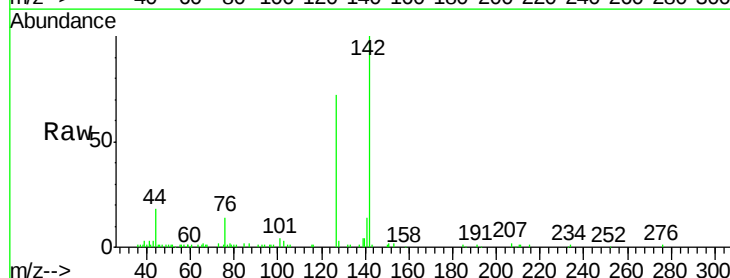
Tgt Ion:142 Resp: 68404

Ion Ratio Lower Upper

142 100

127 72.1 52.5 78.7

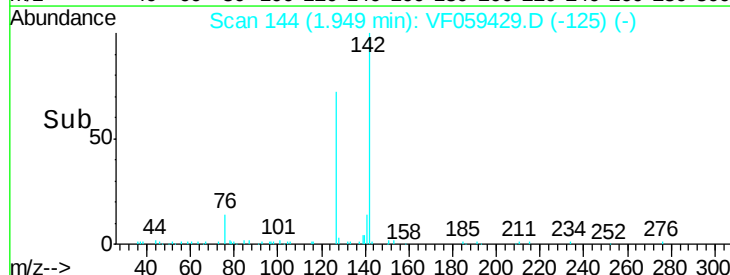
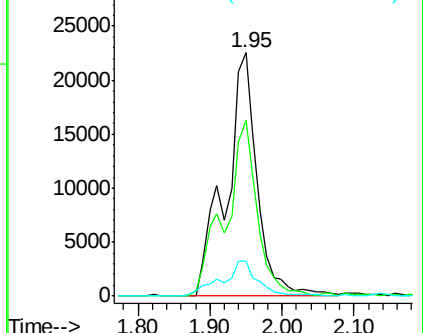
141 14.3 11.5 17.3

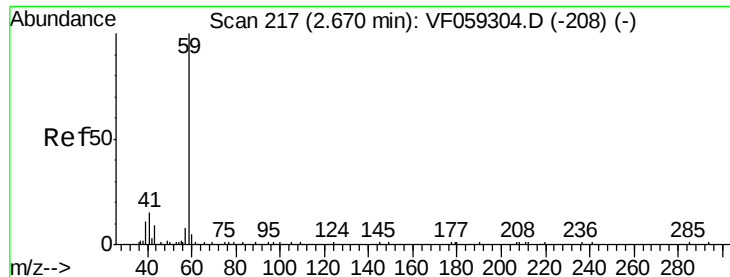


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



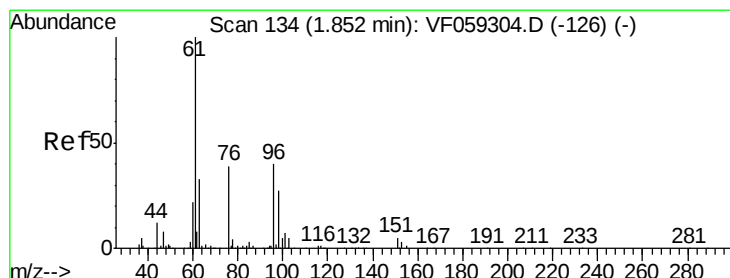
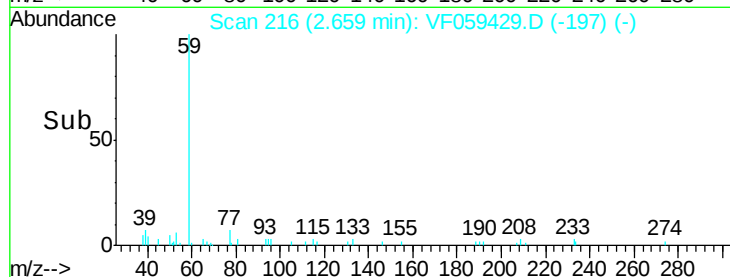
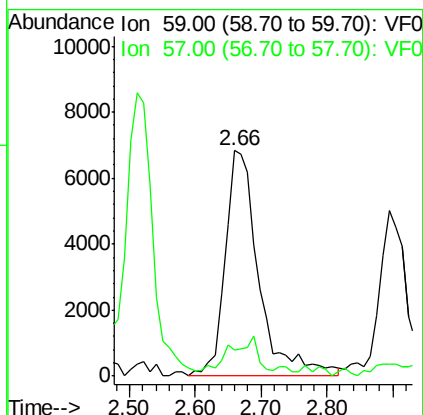
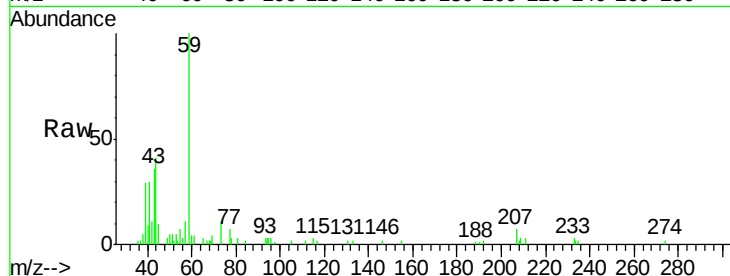


#11

Tert butyl alcohol
Concen: 107.476 ug/l
RT: 2.66 min Scan# 216
Delta R.T. -0.01 min
Lab File: VF059429.D
Acq: 5 Jul 2018 12:58

Instrument :
MSVOA_F
ClientSampleId :

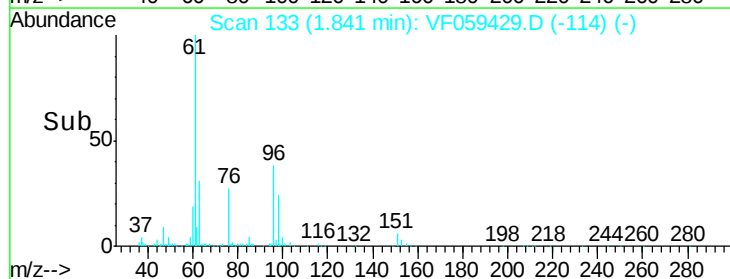
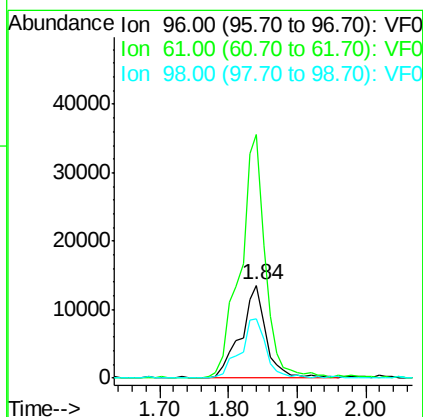
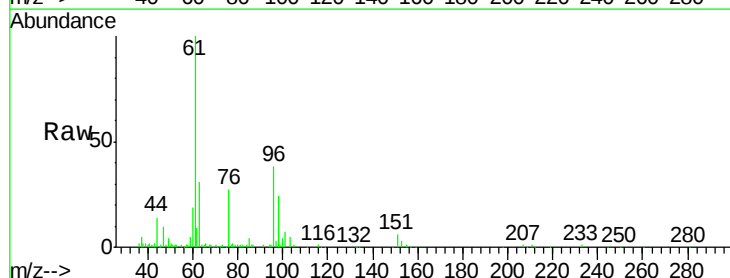
Tot Ion: 59 Resp: 24504
Ion Ratio Lower Upper
59 100
57 11.5 11.0 16.4

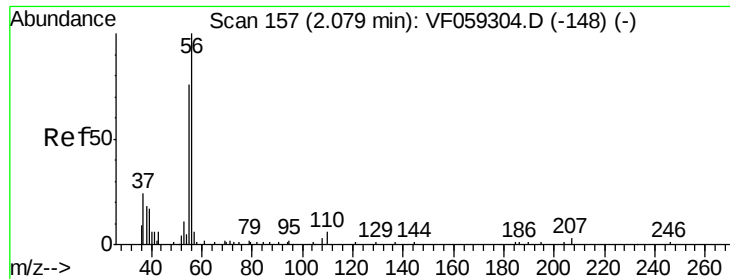


#12

1,1-Dichloroethene
Concen: 22.138 ug/l
RT: 1.84 min Scan# 133
Delta R.T. -0.01 min
Lab File: VF059429.D
Acq: 5 Jul 2018 12:58

Tgt Ion: 96 Resp: 34596
Ion Ratio Lower Upper
96 100
61 263.1 201.1 301.7
98 67.0 53.9 80.9





#13

Acrolein

Concen: 100.204 ug/l

RT: 2.07 min Scan# 156

Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

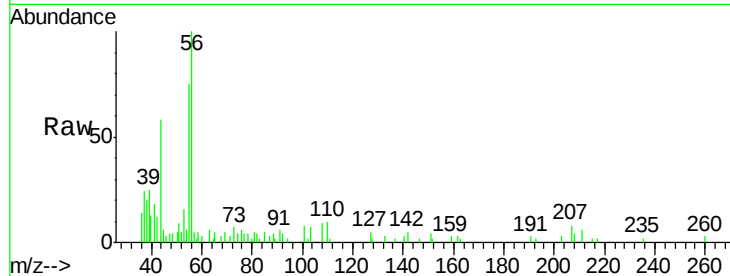
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 56 Resp: 12153

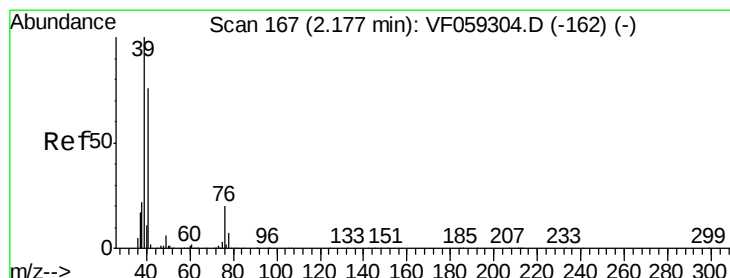
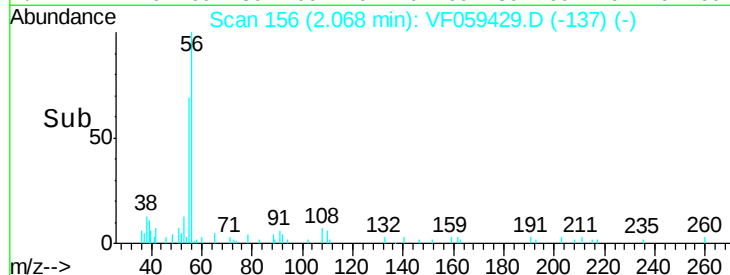
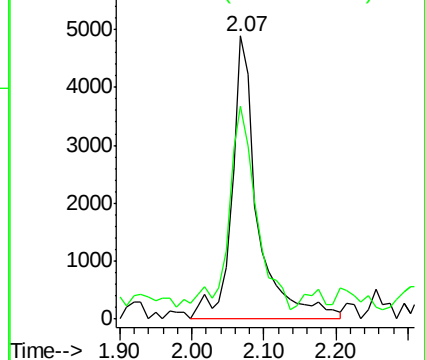
Ion Ratio Lower Upper

56 100

55 75.0 62.4 93.6



Abundance Ion 56.00 (55.70 to 56.70): VF0
Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 22.804 ug/l

RT: 2.17 min Scan# 166

Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

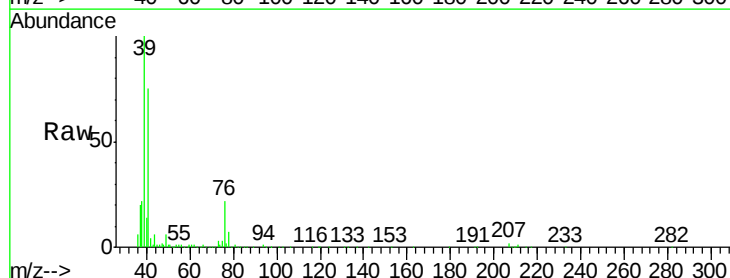
Tgt Ion: 41 Resp: 66897

Ion Ratio Lower Upper

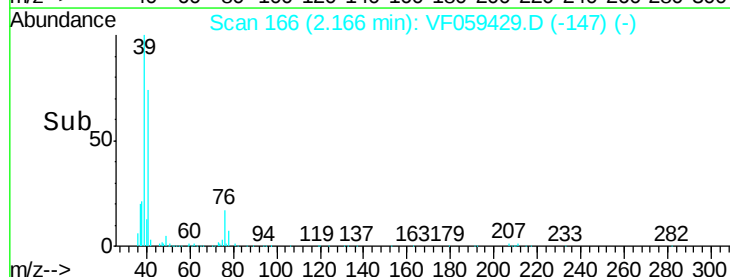
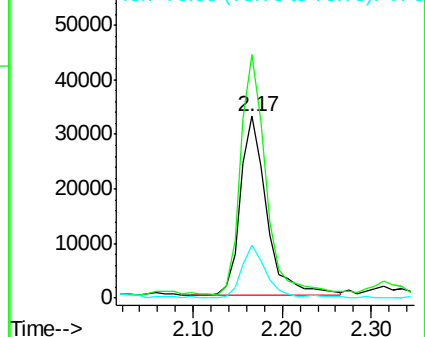
41 100

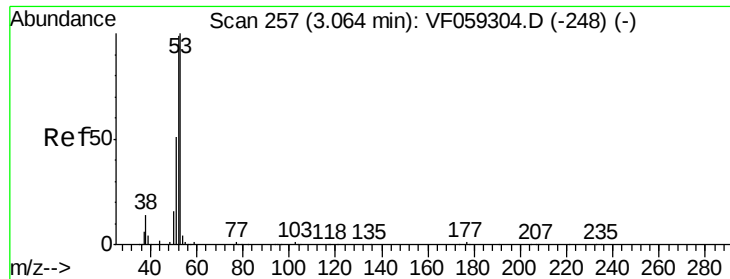
39 133.8 105.6 158.4

76 28.9 21.6 32.4



Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0
Ion 76.00 (75.70 to 76.70): VF0





#15

Acrylonitrile

Concen: 110.120 ug/l

RT: 3.04 min Scan# 255

Delta R.T. -0.02 min

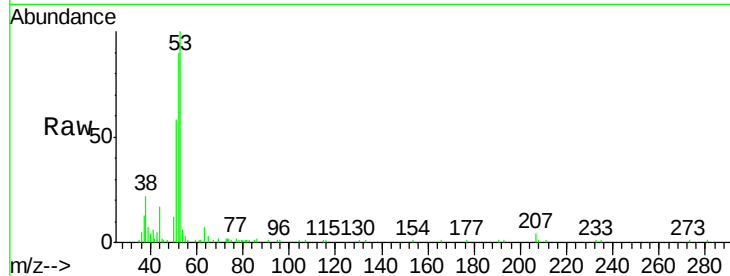
Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 53 Resp: 44213

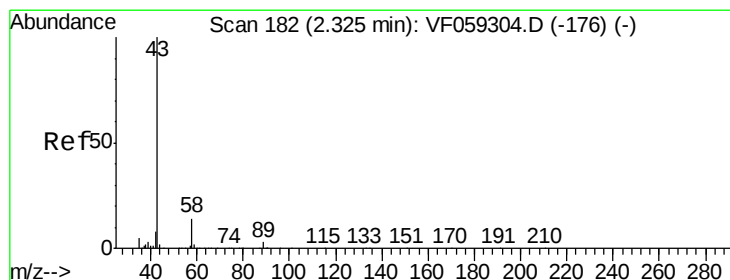
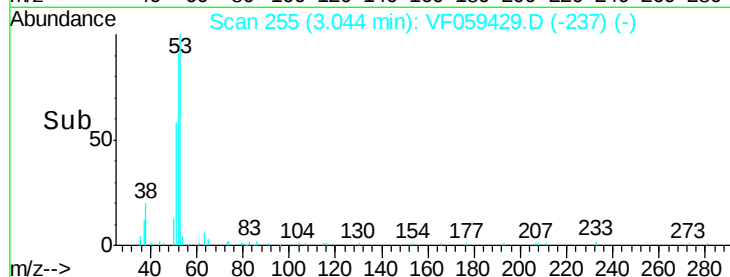
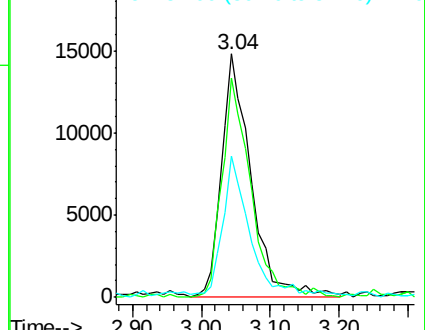
Ion	Ratio	Lower	Upper
53	100		
52	89.9	79.2	118.8
51	57.9	40.9	61.3



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 125.555 ug/l

RT: 2.31 min Scan# 181

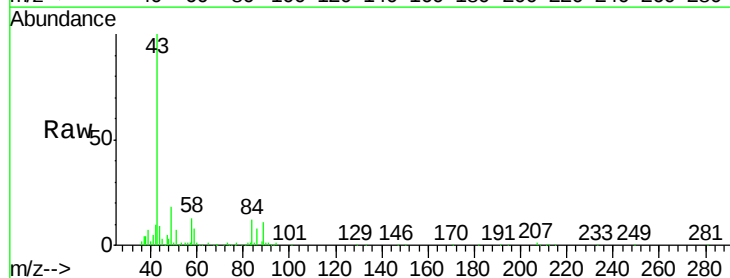
Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

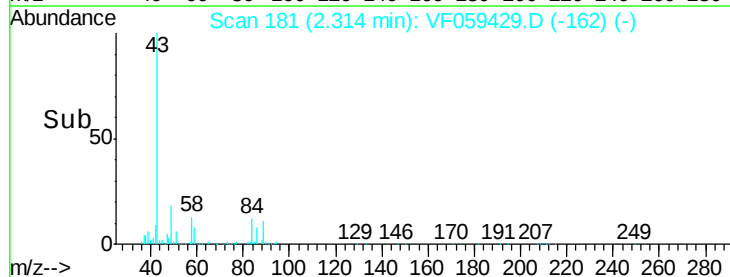
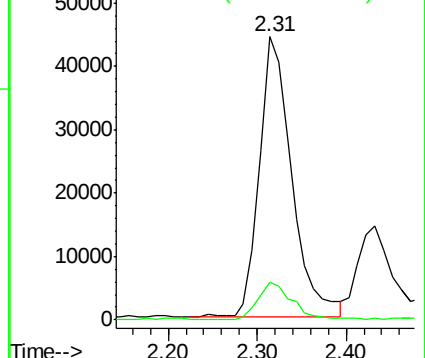
Tgt Ion: 43 Resp: 111731

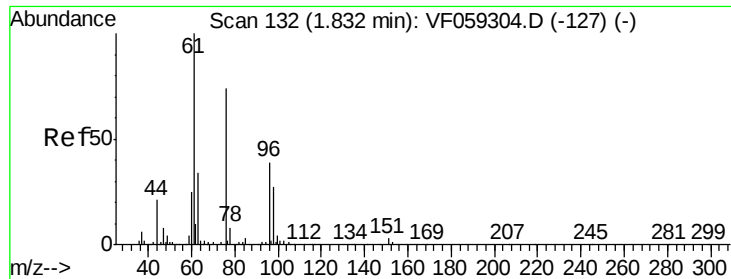
Ion	Ratio	Lower	Upper
43	100		
58	13.2	11.4	17.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

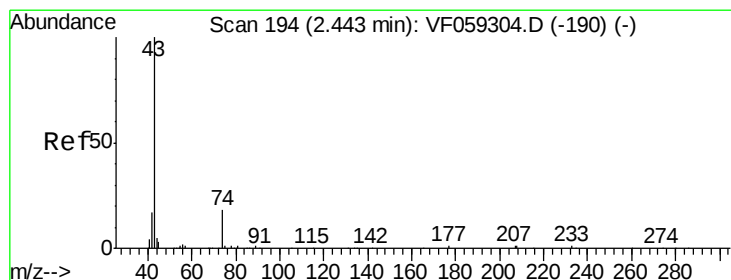
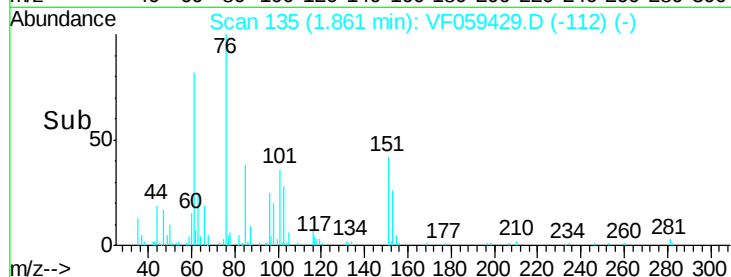
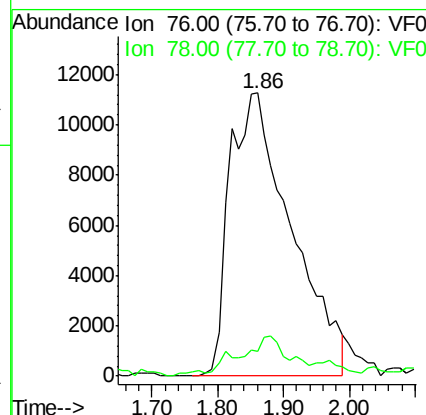
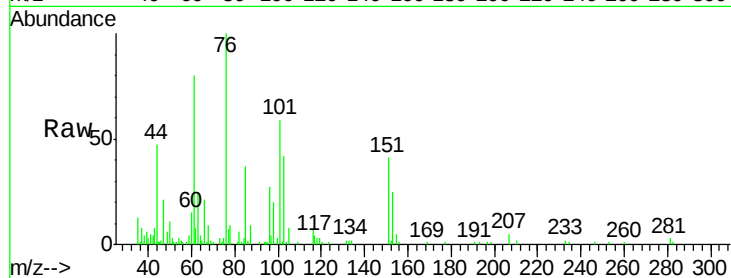




#17
Carbon Disulfide
Concen: 20.072 ug/l
RT: 1.86 min Scan# 135
Delta R.T. 0.03 min
Lab File: VF059429.D
Acq: 5 Jul 2018 12:58

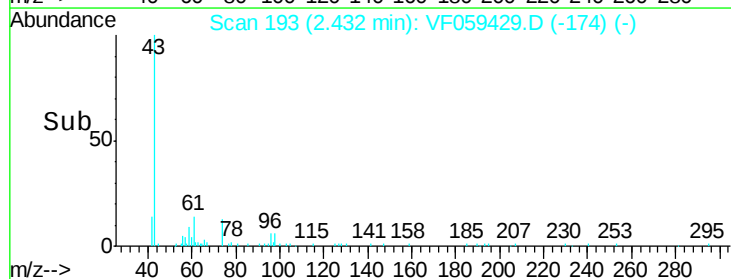
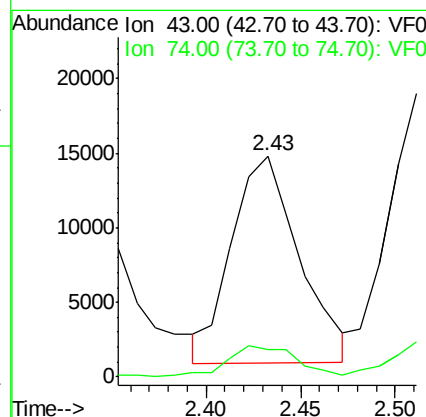
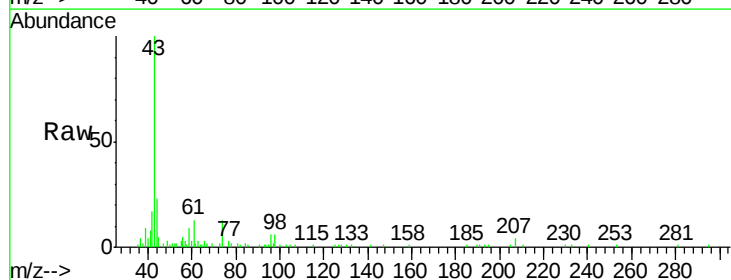
Instrument :
MSVOA_F
ClientSampleId :

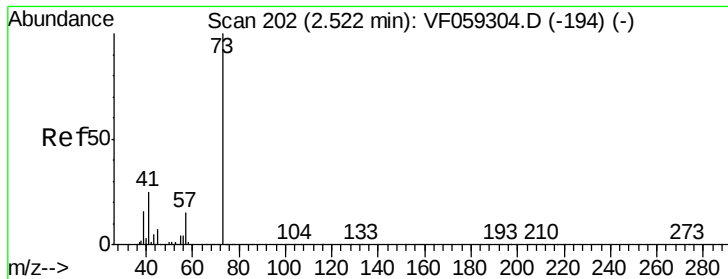
Tot Ion: 76 Resp: 73786
Ion Ratio Lower Upper
76 100
78 8.8 8.9 13.3#



#18
Methyl Acetate
Concen: 21.517 ug/l
RT: 2.43 min Scan# 193
Delta R.T. -0.01 min
Lab File: VF059429.D
Acq: 5 Jul 2018 12:58

Tgt Ion: 43 Resp: 34284
Ion Ratio Lower Upper
43 100
74 12.6 13.3 19.9#

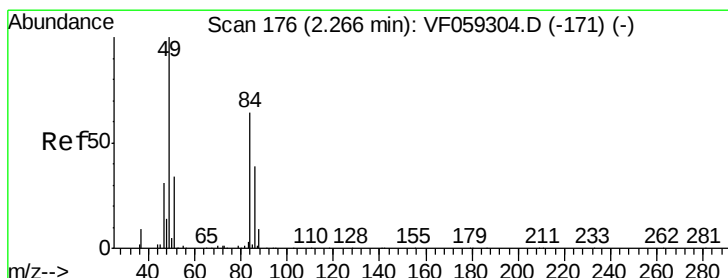
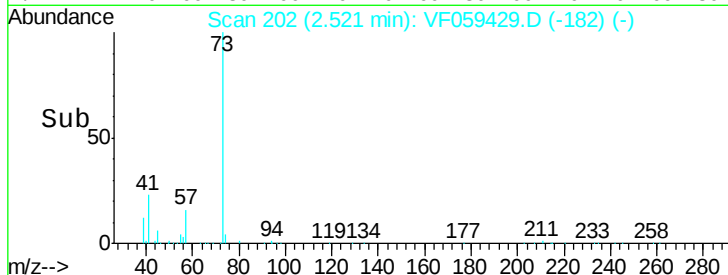
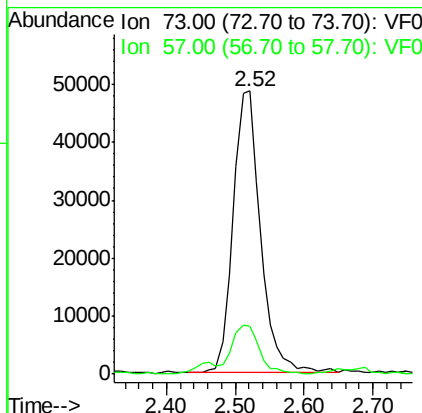
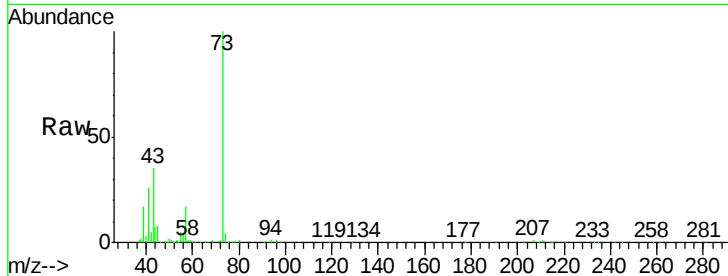




#19
Methvl tert-butvl Ether
Concen: 22.956 ug/l
RT: 2.52 min Scan# 202
Delta R.T. -0.00 min
Lab File: VF059429.D
Acq: 5 Jul 2018 12:58

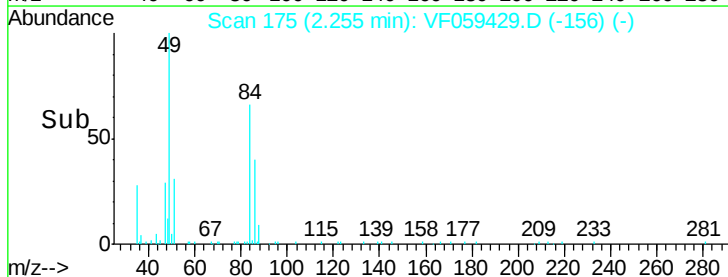
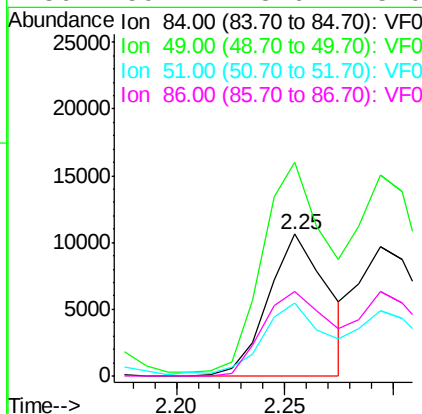
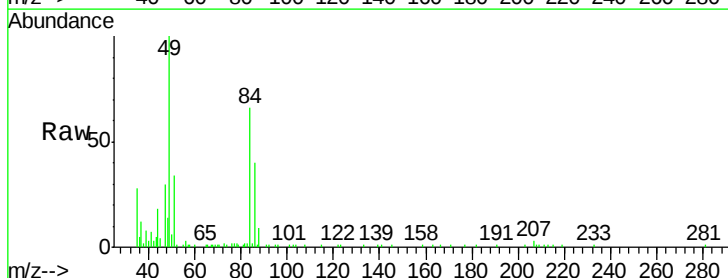
Instrument :
MSVOA_F
ClientSampled :

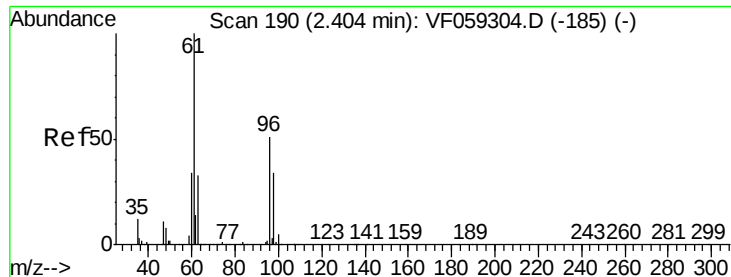
Tot Ion: 73 Resp: 133811
Ion Ratio Lower Upper
73 100
57 16.9 12.3 18.5



#20
Methylene Chloride
Concen: 3.743 ug/l
RT: 2.25 min Scan# 175
Delta R.T. -0.01 min
Lab File: VF059429.D
Acq: 5 Jul 2018 12:58

Tgt Ion: 84 Resp: 20319
Ion Ratio Lower Upper
84 100
49 150.7 126.5 189.7
51 51.2 42.9 64.3
86 59.7 48.6 73.0





#21

trans-1,2-Dichloroethene

Concen: 21.792 ug/l

RT: 2.38 min Scan# 188

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :
MSVOA_F
ClientSampleId :

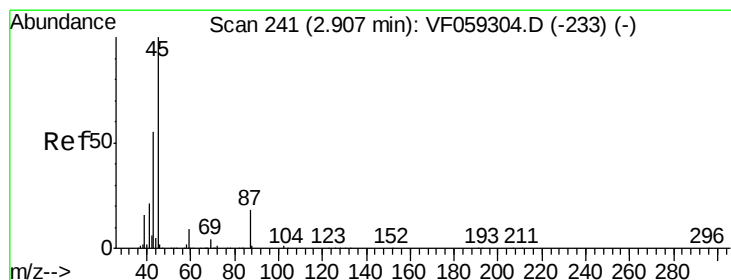
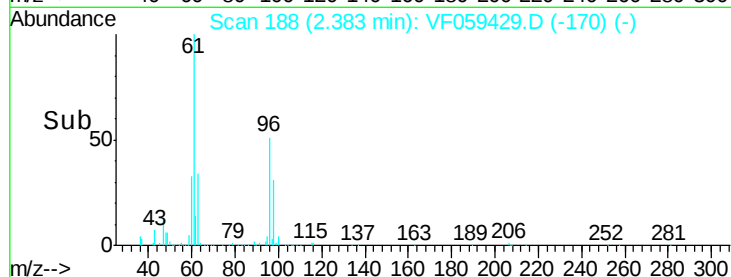
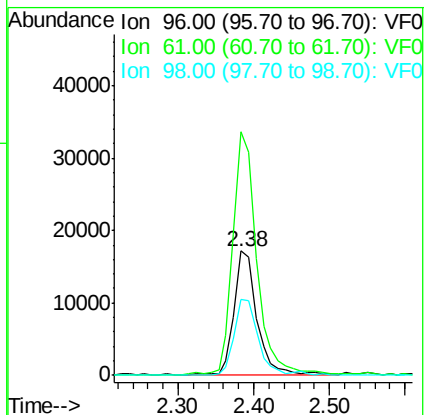
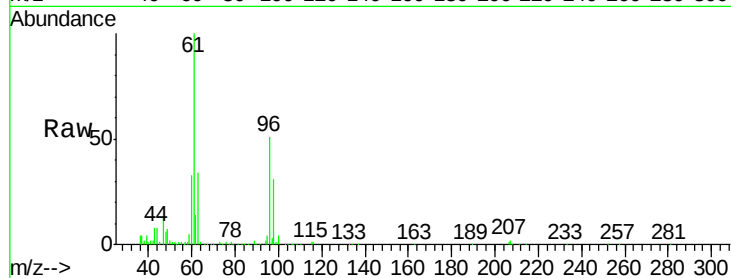
Tot Ion: 96 Resp: 36329

Ion Ratio Lower Upper

96 100

61 196.1 157.4 236.2

98 61.4 53.7 80.5



#22

Diisopropyl ether

Concen: 23.485 ug/l

RT: 2.91 min Scan# 241

Delta R.T. -0.00 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Tgt Ion: 45 Resp: 152564

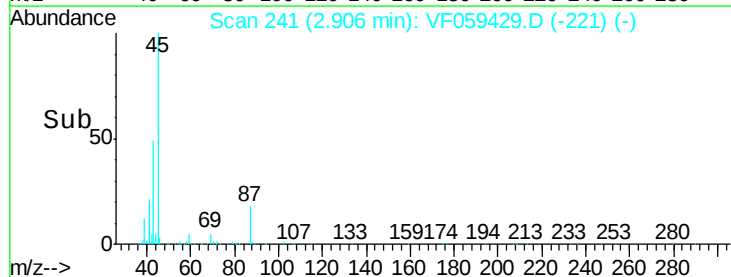
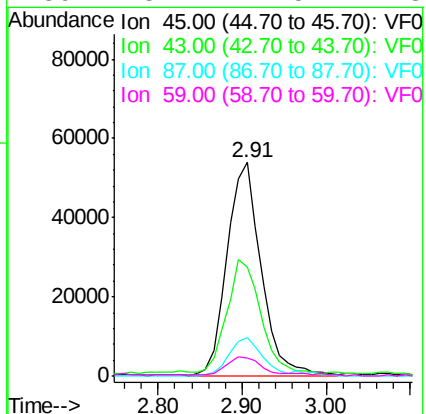
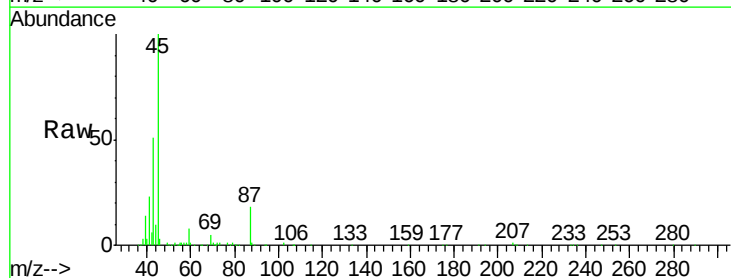
Ion Ratio Lower Upper

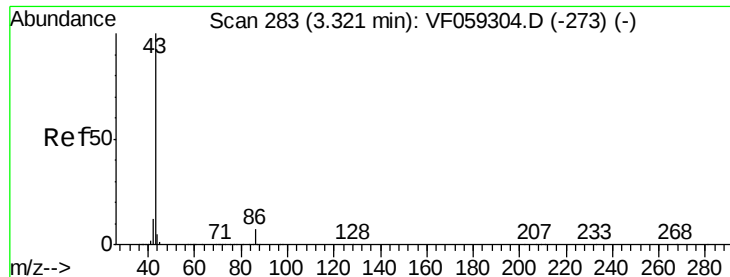
45 100

43 51.1 44.6 66.8

87 18.2 14.3 21.5

59 8.4 7.5 11.3





#23

Vinyl Acetate

Concen: 116.961 ug/l

RT: 3.30 min Scan# 281

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

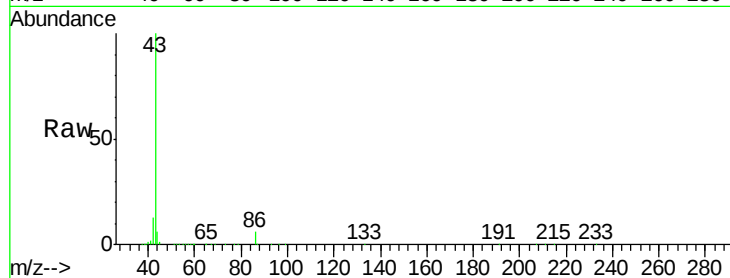
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 483888

Ion Ratio Lower Upper

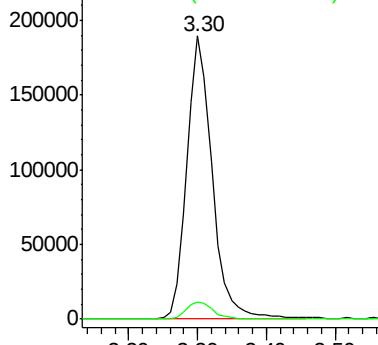
43 100

86 6.2 5.8 8.6

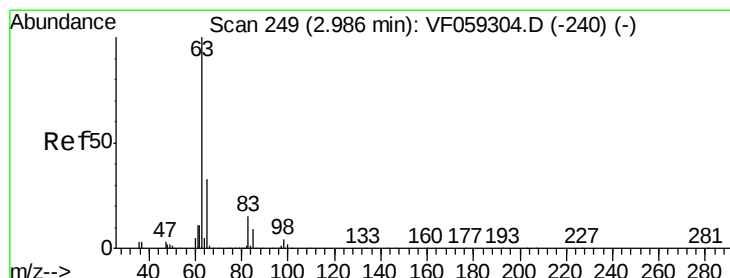
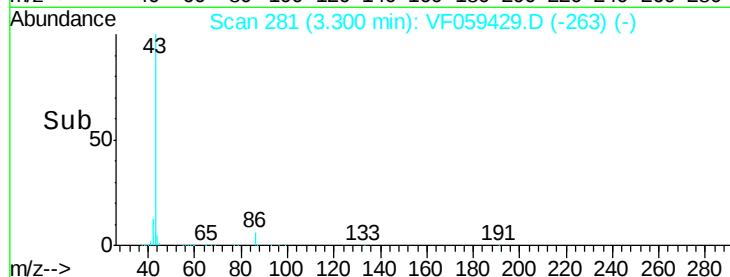


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



Time-->



#24

1,1-Dichloroethane

Concen: 23.810 ug/l

RT: 2.97 min Scan# 248

Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

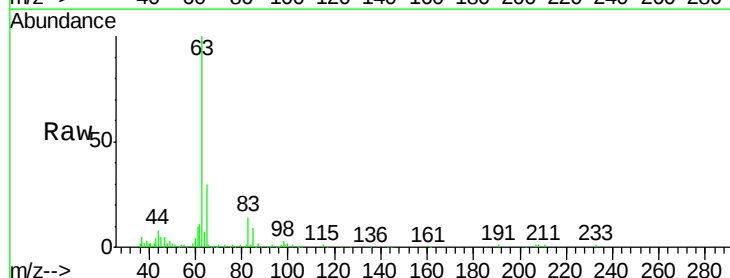
Tgt Ion: 63 Resp: 95900

Ion Ratio Lower Upper

63 100

98 3.0 2.0 6.0

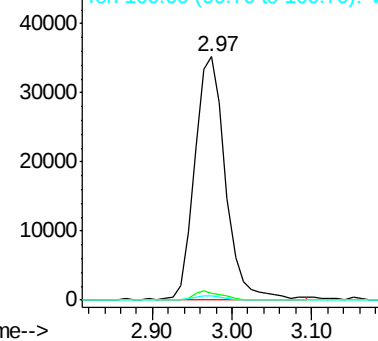
100 1.9 1.3 3.9



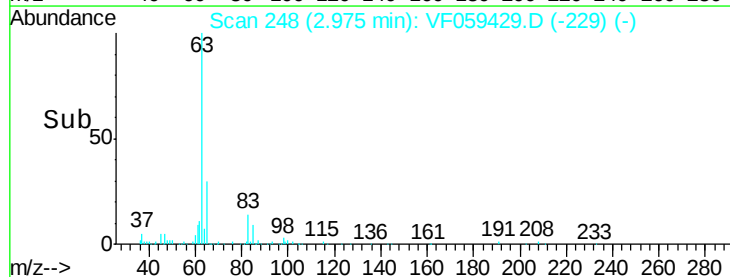
Abundance Ion 63.00 (62.70 to 63.70): VF0

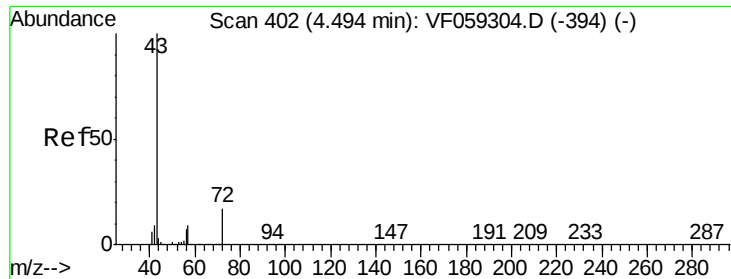
Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



Time-->





#25

2-Butanone

Concen: 118.145 ug/l

RT: 4.47 min Scan# 400

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

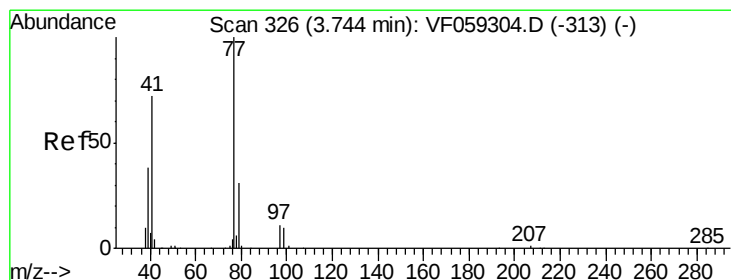
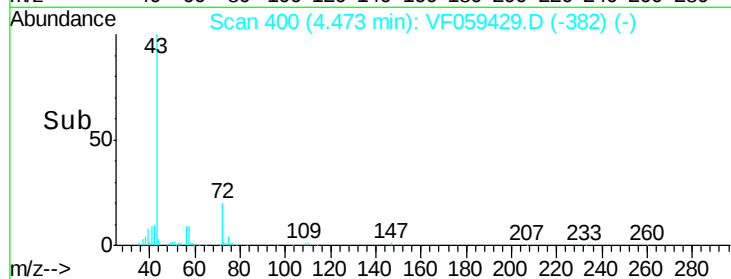
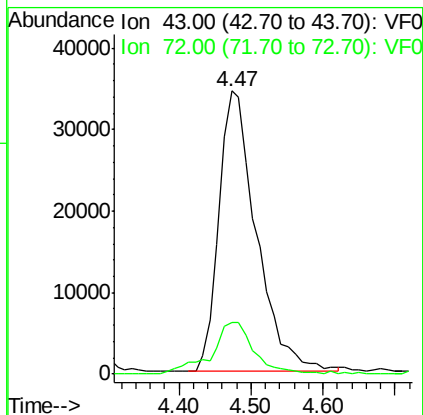
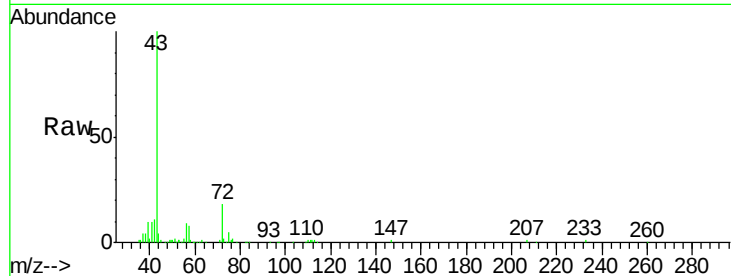
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 123901

Ion Ratio Lower Upper

43 100

72 18.4 14.4 21.6



#26

2,2-Dichloropropane

Concen: 23.617 ug/l

RT: 3.73 min Scan# 325

Delta R.T. -0.01 min

Lab File: VF059429.D

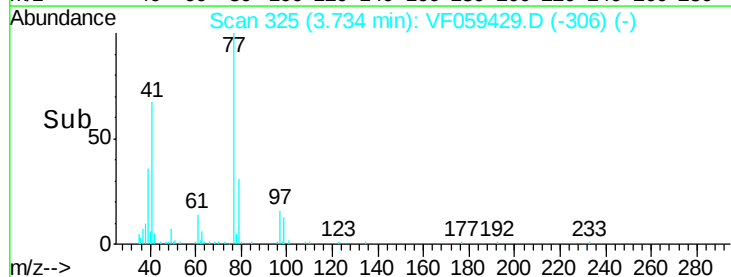
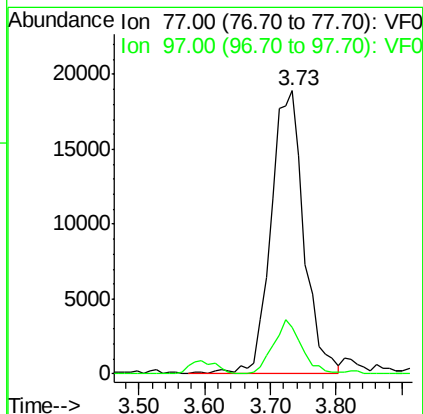
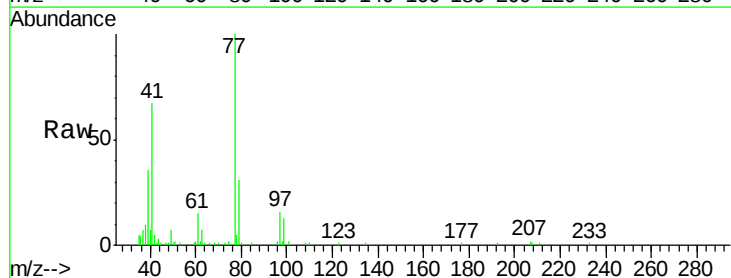
Acq: 5 Jul 2018 12:58

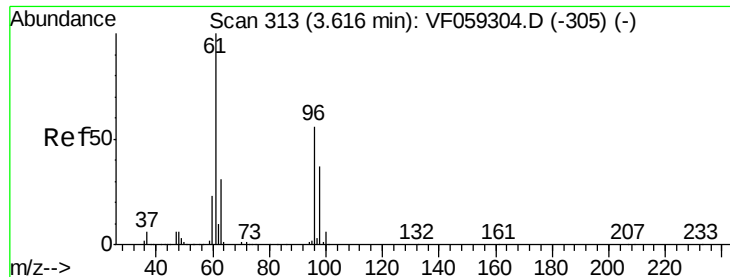
Tgt Ion: 77 Resp: 65608

Ion Ratio Lower Upper

77 100

97 16.3 8.0 23.8



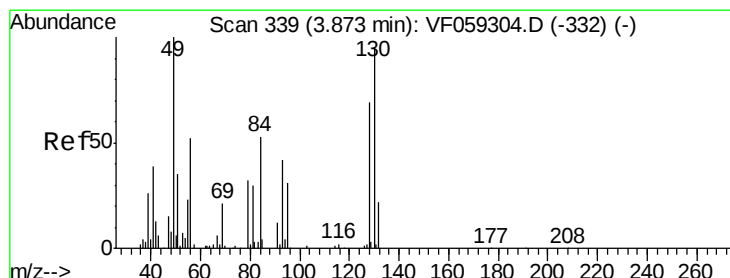
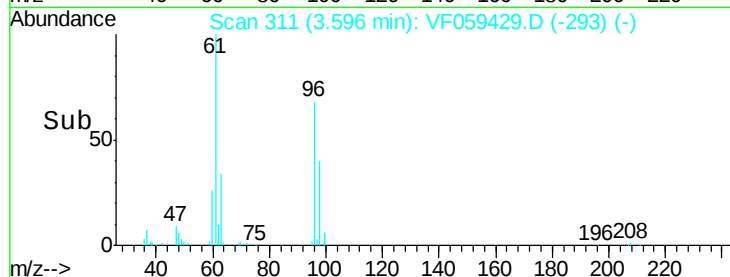
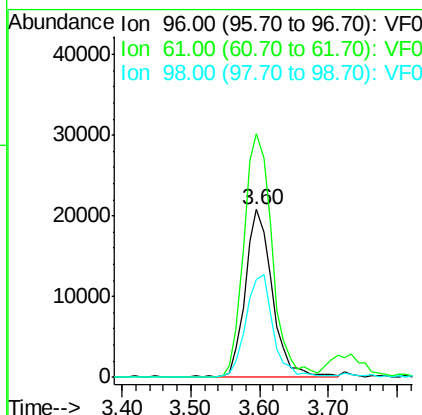
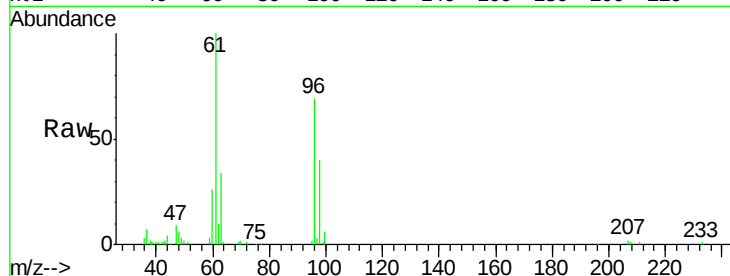


#27

cis-1,2-Dichloroethene
 Concen: 22.414 ug/l
 RT: 3.60 min Scan# 311
 Delta R.T. -0.02 min
 Lab File: VF059429.D
 Acq: 5 Jul 2018 12:58

Instrument :
 MSVOA_F
 ClientSampleId :

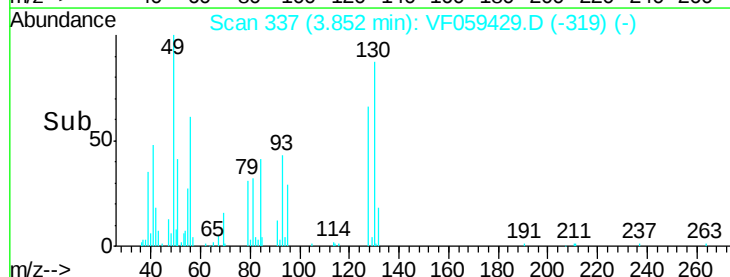
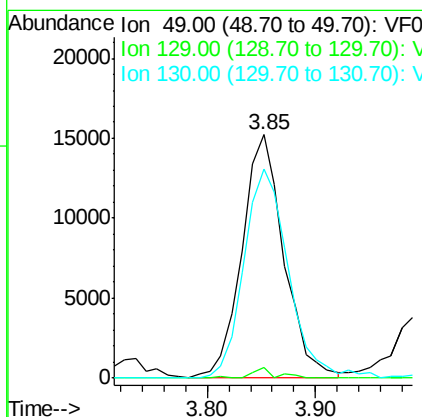
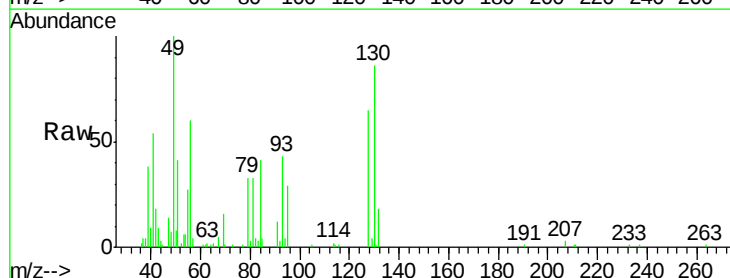
Tot Ion	96	Resp	56731
Ion	Ratio	Lower	Upper
96	100		
61	145.2	0.0	355.4
98	58.2	0.0	131.0

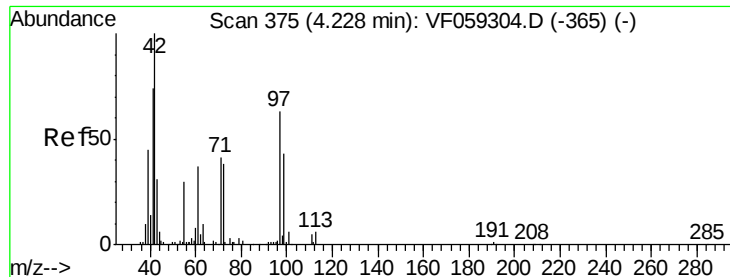


#28

Bromochloromethane
 Concen: 24.429 ug/l
 RT: 3.85 min Scan# 337
 Delta R.T. -0.02 min
 Lab File: VF059429.D
 Acq: 5 Jul 2018 12:58

Tgt Ion	49	Resp	41143
Ion	Ratio	Lower	Upper
49	100		
129	4.4	0.0	6.4
130	85.8	75.1	112.7





#29

Tetrahydrofuran

Concen: 112.088 ug/l

RT: 4.22 min Scan# 374

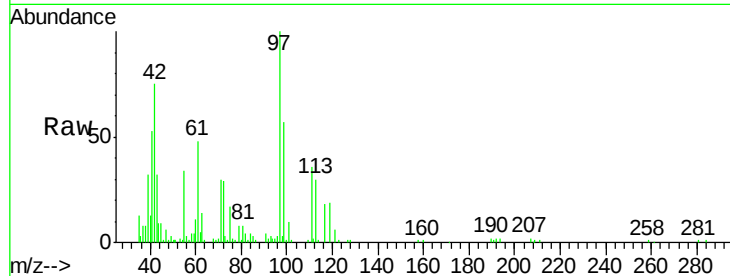
Delta R.T. -0.01 min

Lab File: VF059429.D

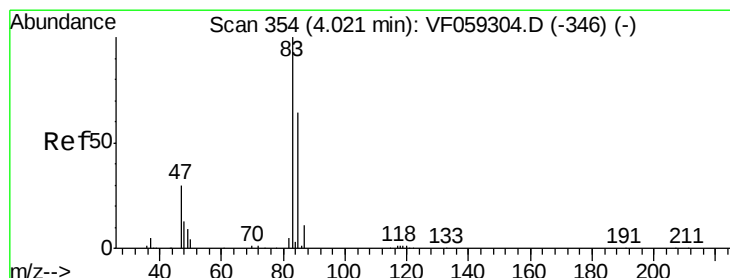
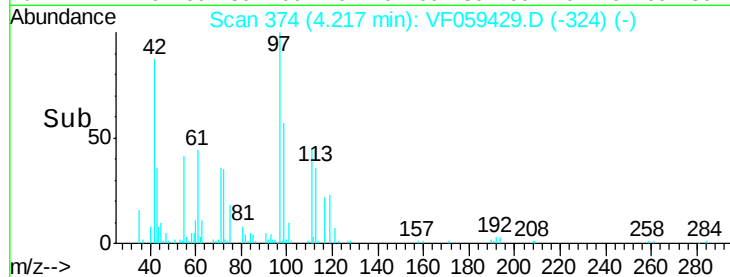
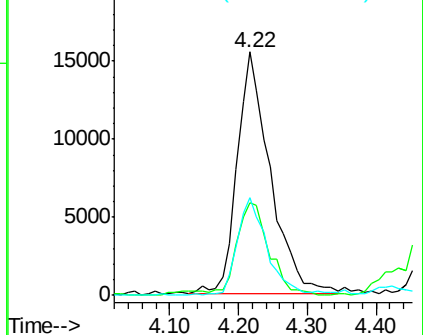
Acq: 5 Jul 2018 12:58

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	42	Resp:	51526
Ion	Ratio	Lower	Upper
42	100		
72	37.6	30.5	45.7
71	36.8	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: 22.301 ug/l

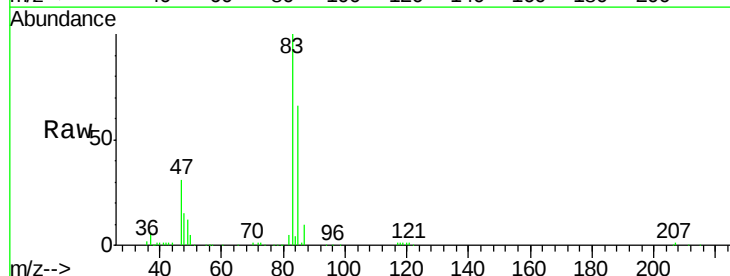
RT: 4.00 min Scan# 352

Delta R.T. -0.02 min

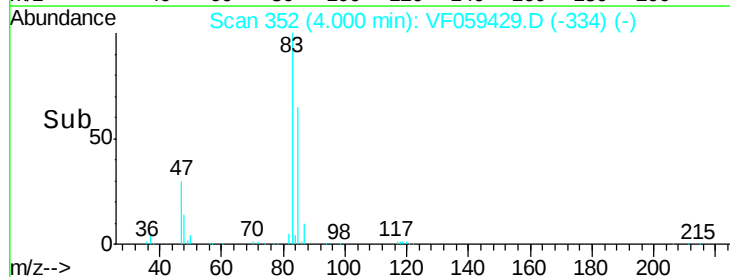
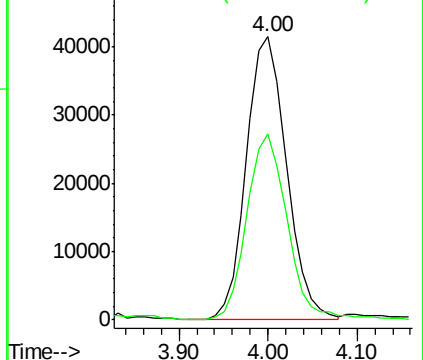
Lab File: VF059429.D

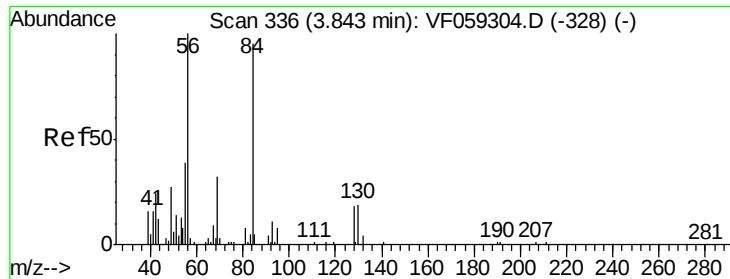
Acq: 5 Jul 2018 12:58

Tgt Ion:	83	Resp:	130034
Ion	Ratio	Lower	Upper
83	100		
85	65.6	51.3	76.9



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

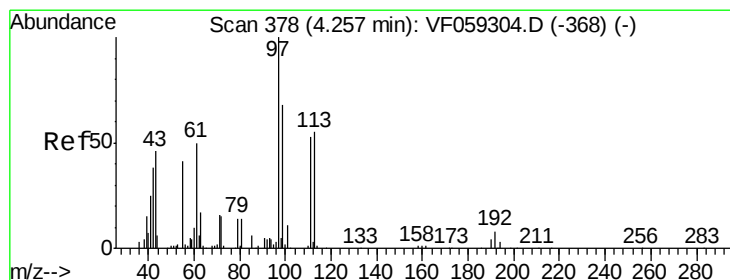
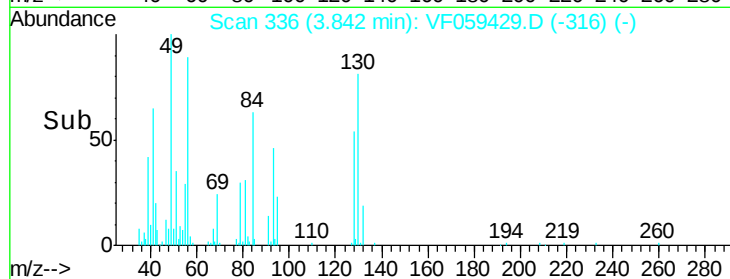
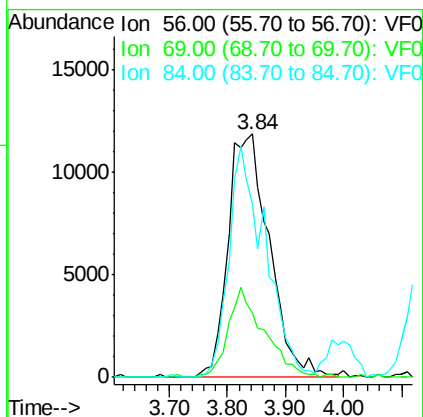
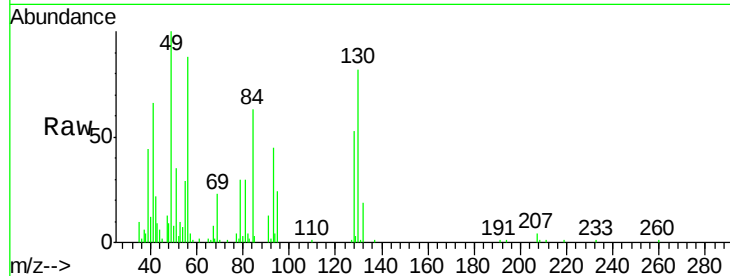




#31
Cyclohexane
Concen: 22.094 ug/l
RT: 3.84 min Scan# 336
Delta R.T. -0.00 min
Lab File: VF059429.D
Acq: 5 Jul 2018 12:58

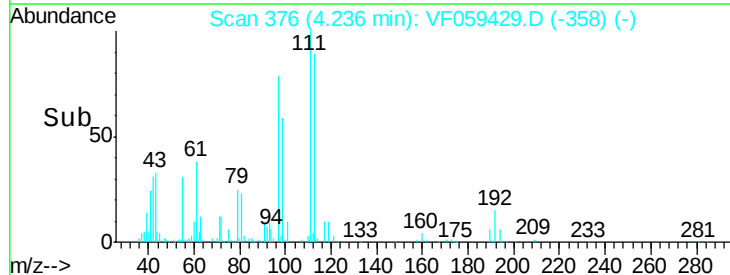
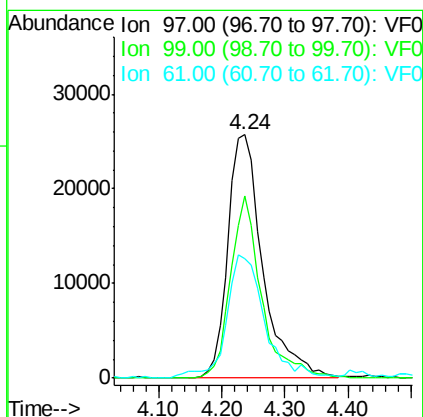
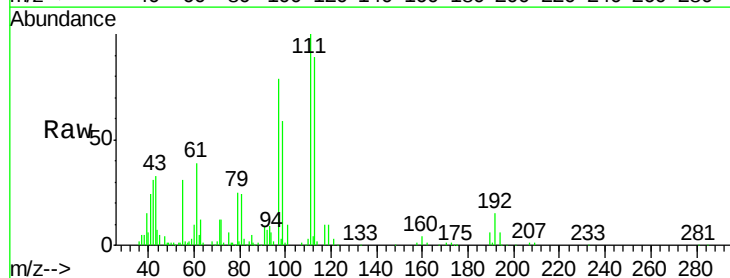
Instrument :
MSVOA_F
ClientSampleId :

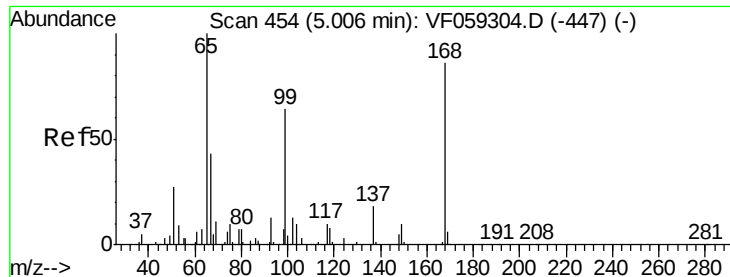
Tot Ion: 56 Resp: 58295
Ion Ratio Lower Upper
56 100
69 26.6 25.8 38.8
84 71.2 75.6 113.4#



#32
1,1,1-Trichloroethane
Concen: 23.089 ug/l
RT: 4.24 min Scan# 376
Delta R.T. -0.02 min
Lab File: VF059429.D
Acq: 5 Jul 2018 12:58

Tgt Ion: 97 Resp: 98521
Ion Ratio Lower Upper
97 100
99 75.1 54.1 81.1
61 49.2 41.2 61.8





#33

1,2-Dichloroethane-d4

Concen: 46.451 ug/l

RT: 4.99 min Scan# 452

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

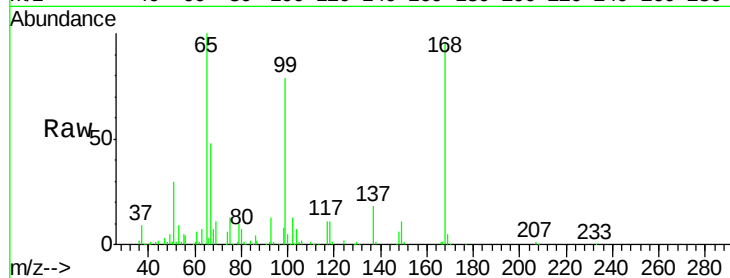
ClientSampled :

Tot Ion: 65 Resp: 159082

Ion Ratio Lower Upper

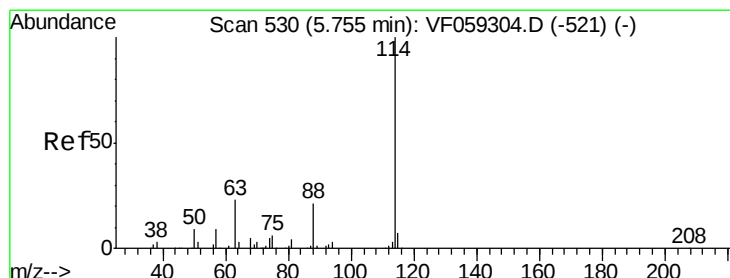
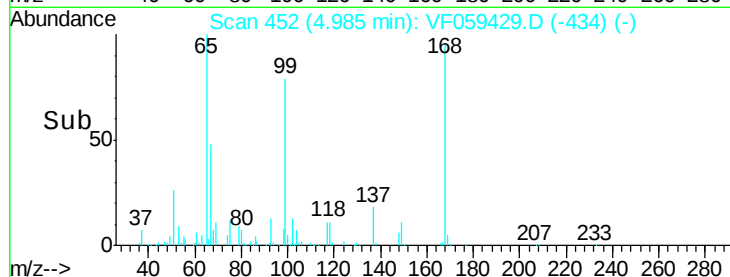
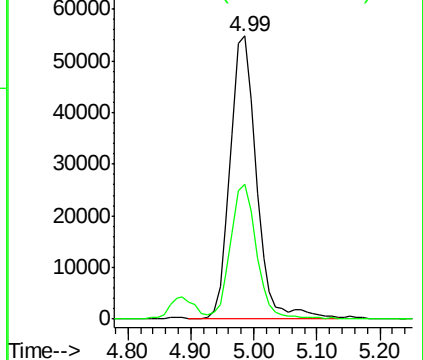
65 100

67 47.8 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: 5.72 min Scan# 527

Delta R.T. -0.03 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

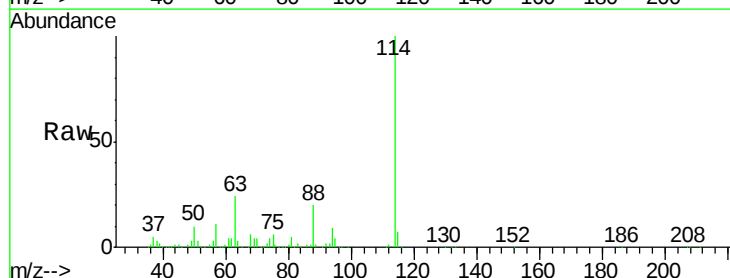
Tgt Ion: 114 Resp: 384700

Ion Ratio Lower Upper

114 100

63 23.9 0.0 45.8

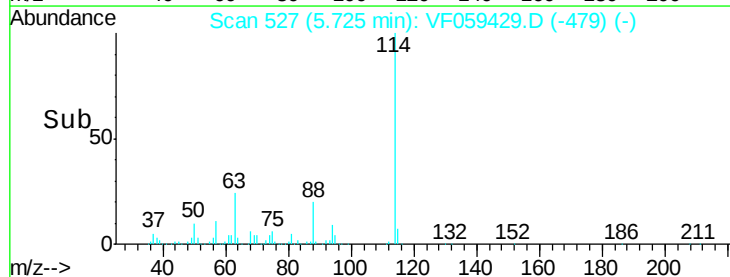
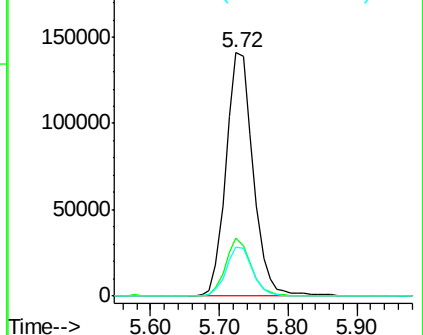
88 20.4 0.0 41.2

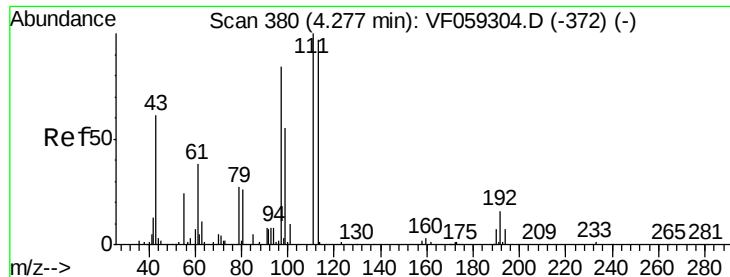


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

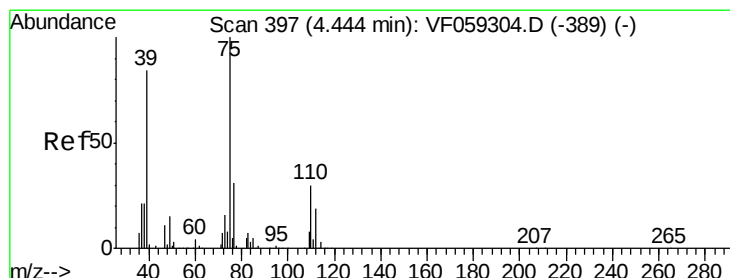
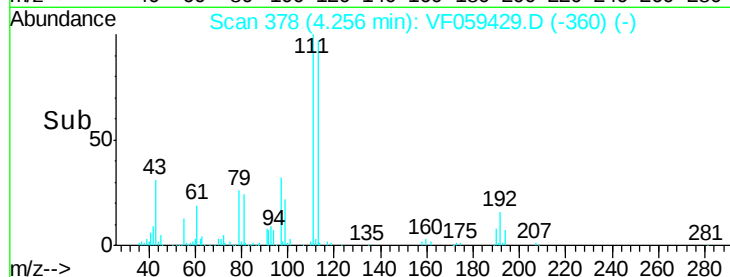
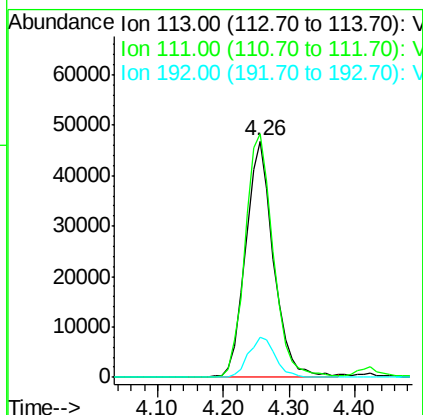
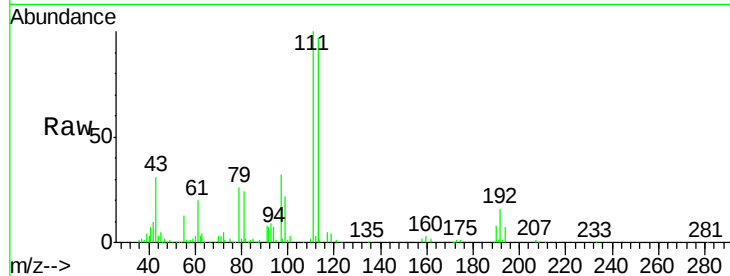




#35
 Dibromofluoromethane
 Concen: 49.523 ug/l
 RT: 4.26 min Scan# 378
 Delta R.T. -0.02 min
 Lab File: VF059429.D
 Acq: 5 Jul 2018 12:58

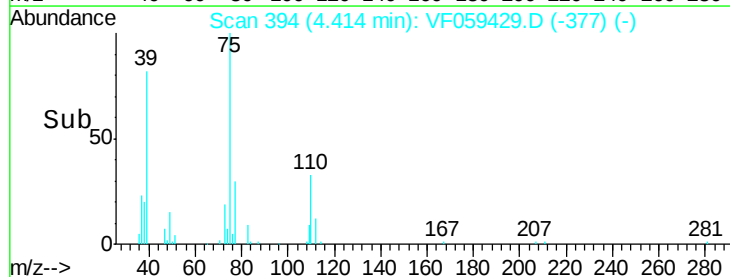
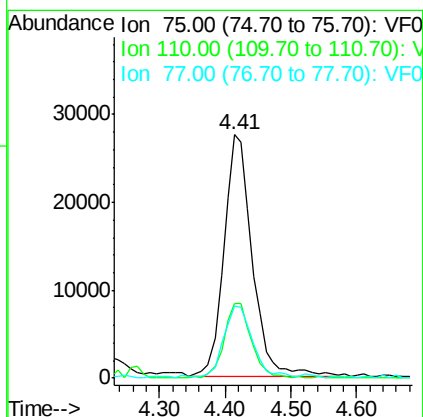
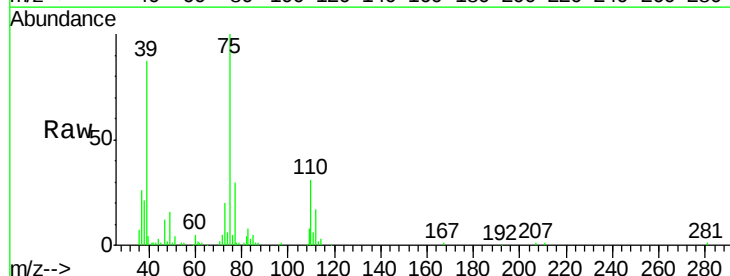
Instrument :
 MSVOA_F
 ClientSampleId :

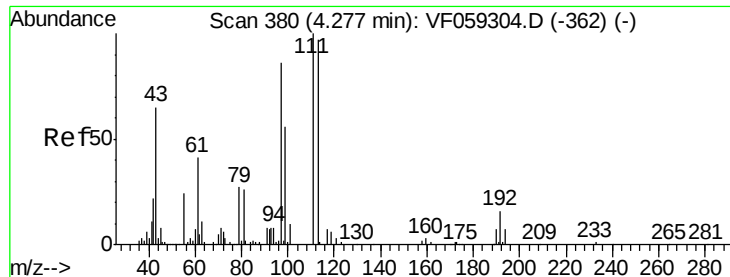
Tot Ion:113 Resp: 139202
 Ion Ratio Lower Upper
 113 100
 111 103.1 82.1 123.1
 192 17.2 13.0 19.6



#36
 1,1-Dichloropropene
 Concen: 24.570 ug/l
 RT: 4.41 min Scan# 394
 Delta R.T. -0.03 min
 Lab File: VF059429.D
 Acq: 5 Jul 2018 12:58

Tgt Ion: 75 Resp: 82573
 Ion Ratio Lower Upper
 75 100
 110 30.7 14.8 44.4
 77 29.6 25.2 37.8





#37

Ethyl Acetate

Concen: 25.157 ug/l

RT: 4.26 min Scan# 378

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :
MSVOA_F
ClientSampled :

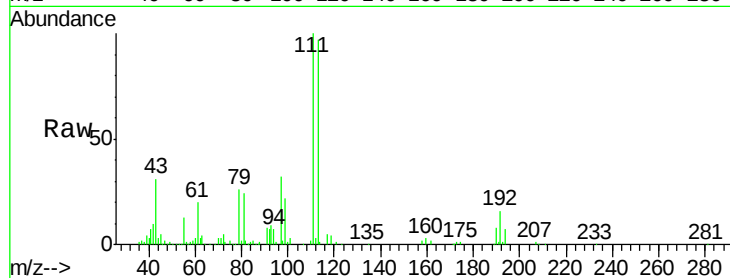
Tot Ion: 43 Resp: 55665

Ion Ratio Lower Upper

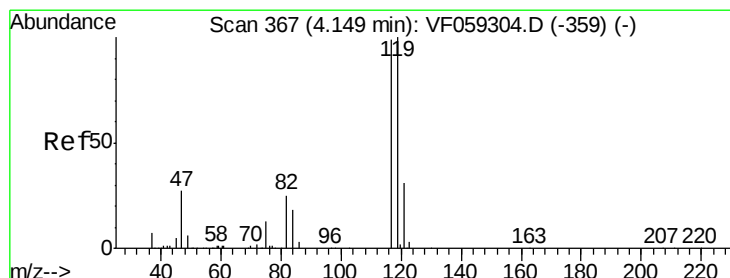
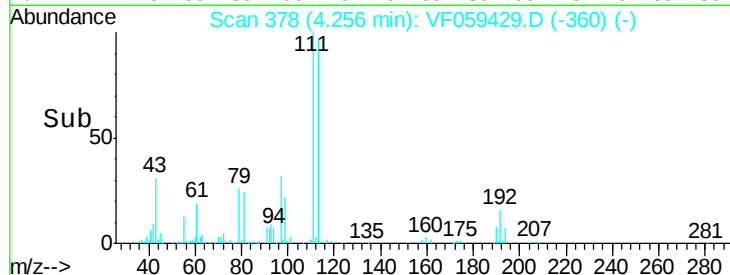
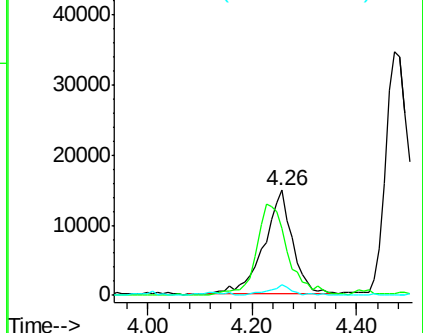
43 100

61 63.4 50.1 75.1

70 9.9 6.2 9.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 70.00 (69.70 to 70.70): VF0



#38

Carbon Tetrachloride

Concen: 28.413 ug/l

RT: 4.13 min Scan# 365

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

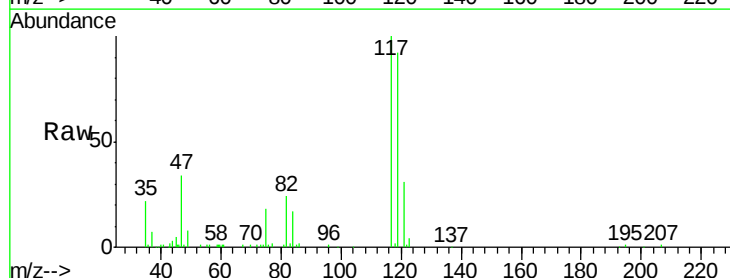
Tgt Ion: 117 Resp: 120502

Ion Ratio Lower Upper

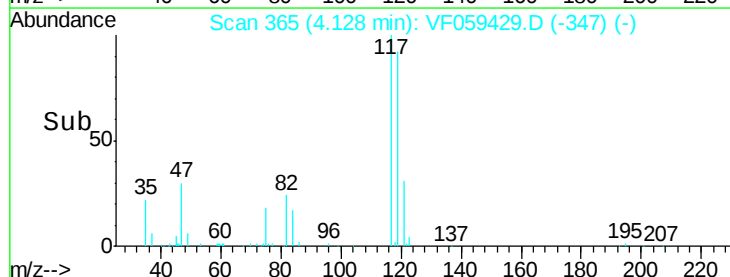
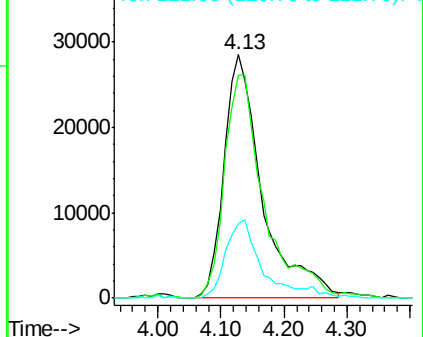
117 100

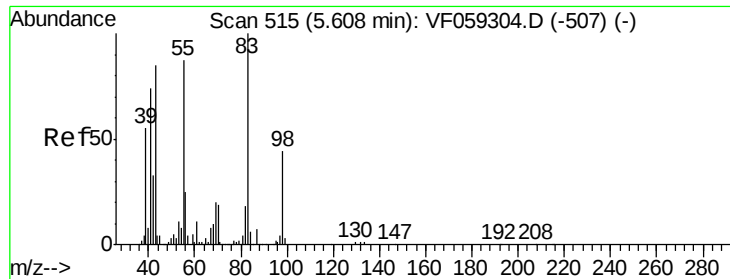
119 91.6 81.0 121.4

121 30.9 24.7 37.1



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V





#39

Methvlcvclohexane

Concen: 23.418 ug/l

RT: 5.59 min Scan# 513

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :
MSVOA_F
ClientSampleId :

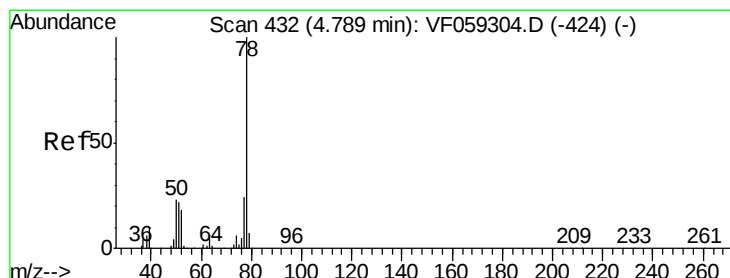
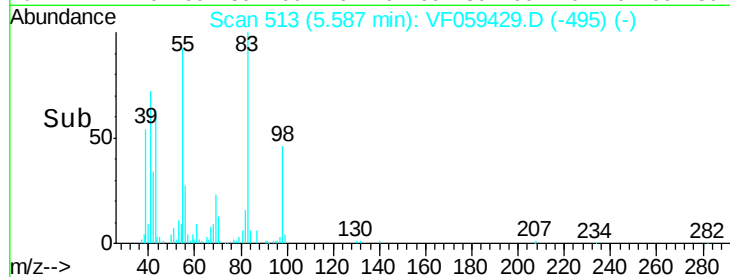
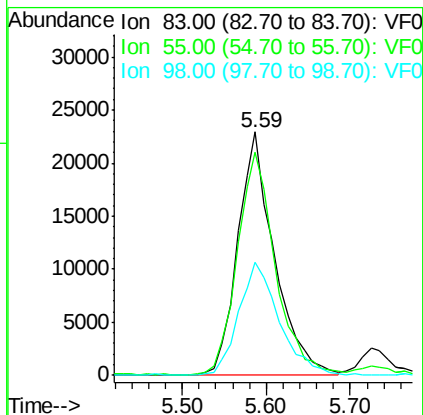
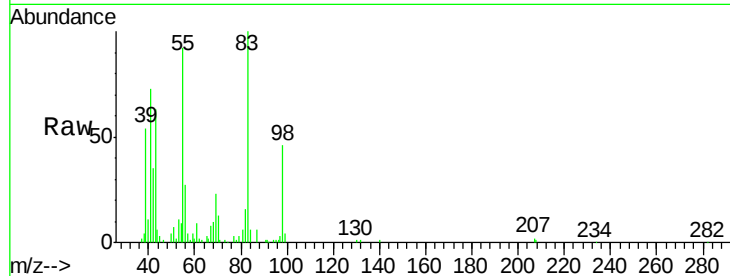
Tot Ion: 83 Resp: 69741

Ion Ratio Lower Upper

83 100

55 91.7 69.2 103.8

98 46.4 35.0 52.6



#40

Benzene

Concen: 22.818 ug/l

RT: 4.77 min Scan# 430

Delta R.T. -0.02 min

Lab File: VF059429.D

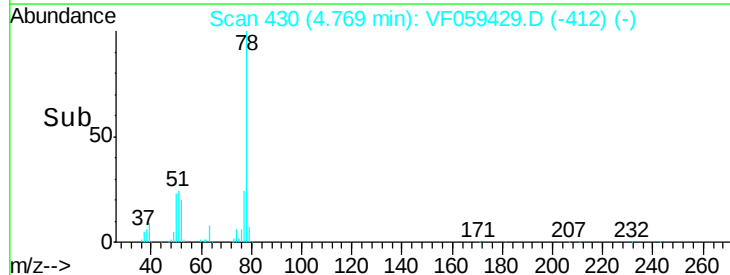
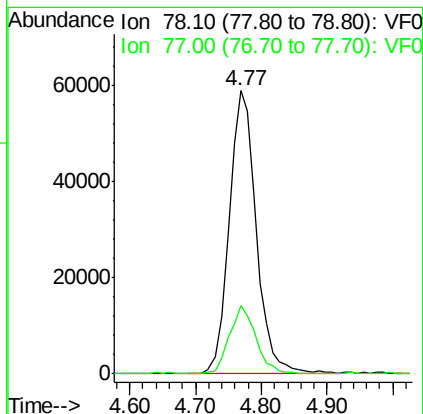
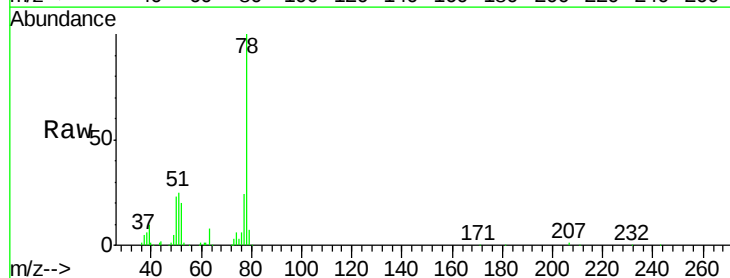
Acq: 5 Jul 2018 12:58

Tgt Ion: 78 Resp: 170025

Ion Ratio Lower Upper

78 100

77 24.2 19.6 29.4

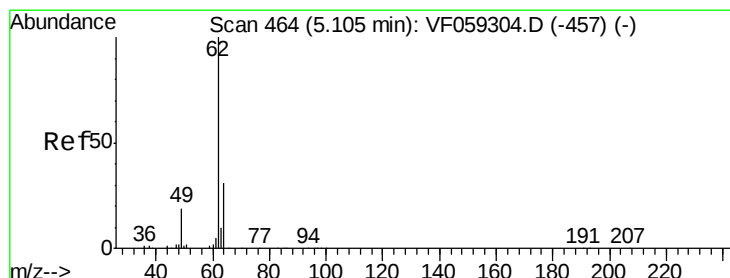
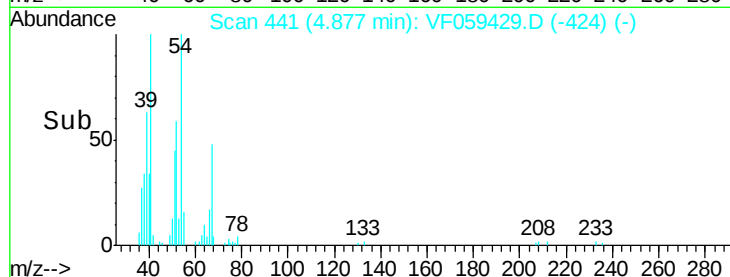
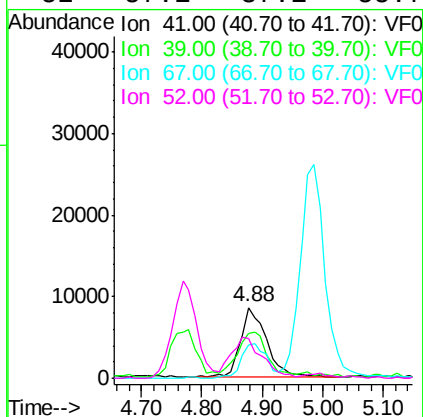
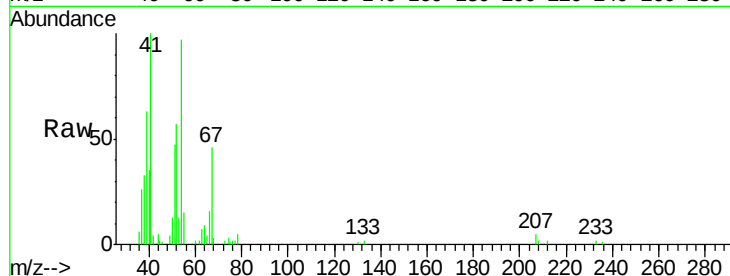




#41
Methacrylonitrile
Concen: 22.579 ug/l
RT: 4.88 min Scan# 441
Delta R.T. -0.03 min
Lab File: VF059429.D
Acq: 5 Jul 2018 12:58

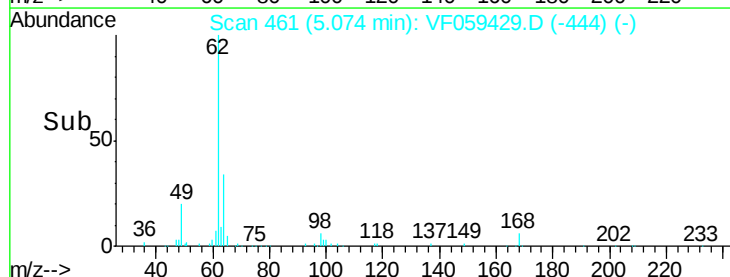
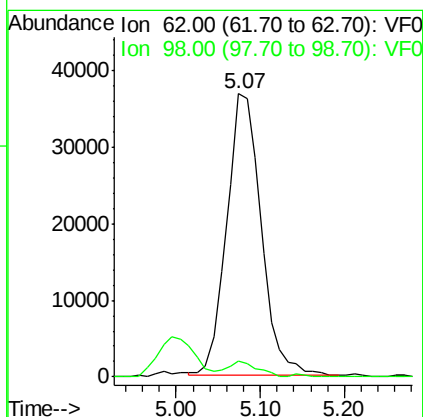
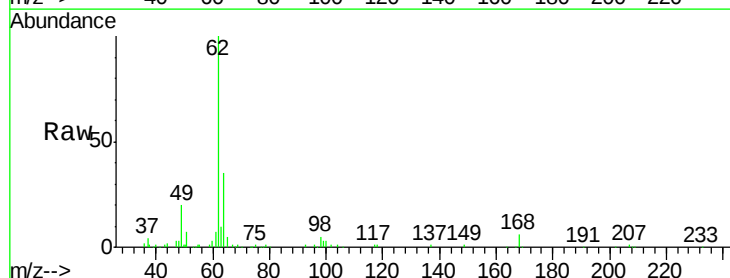
Instrument :
MSVOA_F
ClientSampleId :

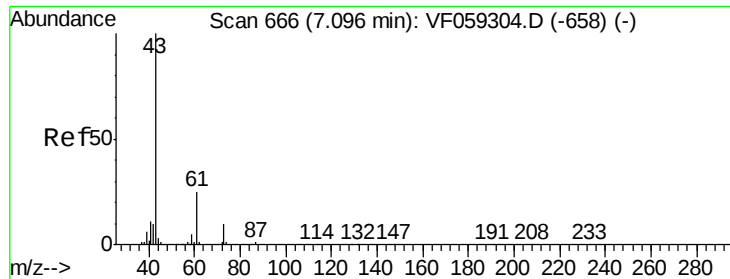
Tot Ion: 41 Resp: 25884
Ion Ratio Lower Upper
41 100
39 63.5 50.0 75.0
67 46.4 37.0 55.6
52 57.1 37.1 55.7#



#42
1,2-Dichloroethane
Concen: 23.891 ug/l
RT: 5.07 min Scan# 461
Delta R.T. -0.03 min
Lab File: VF059429.D
Acq: 5 Jul 2018 12:58

Tgt Ion: 62 Resp: 104025
Ion Ratio Lower Upper
62 100
98 5.5 0.0 11.4



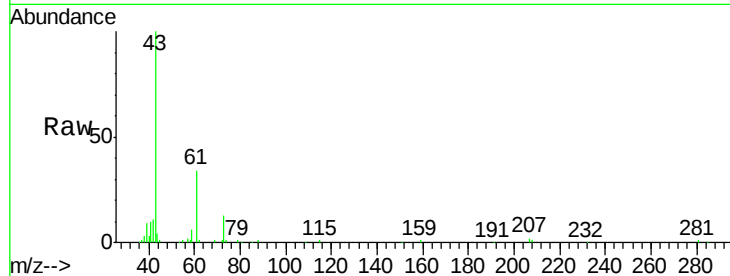


#43

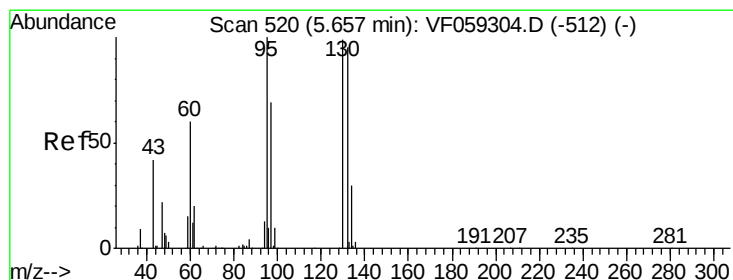
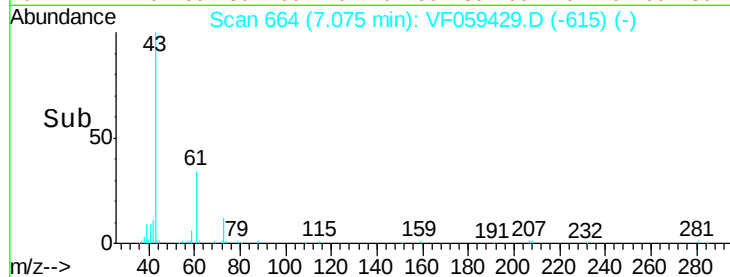
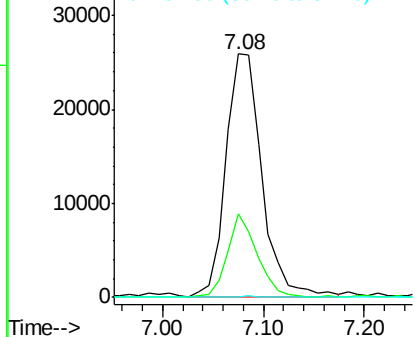
Isopropyl Acetate
 Concen: 22.685 ug/l
 RT: 7.08 min Scan# 664
 Delta R.T. -0.02 min
 Lab File: VF059429.D
 Acq: 5 Jul 2018 12:58

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion: 43 Resp: 63502
 Ion Ratio Lower Upper
 43 100
 61 34.2 19.7 29.5#
 87 0.0 0.5 0.7#



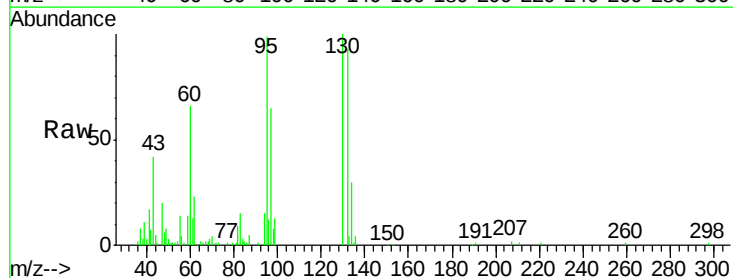
Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 87.00 (86.70 to 87.70): VF0



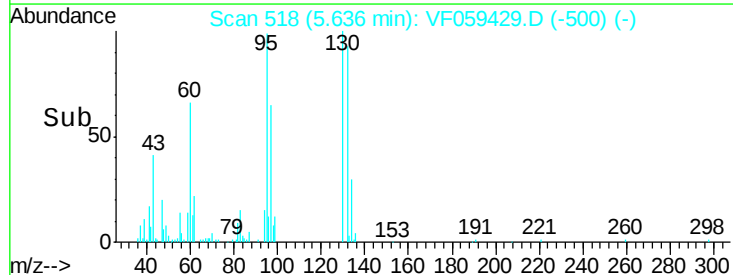
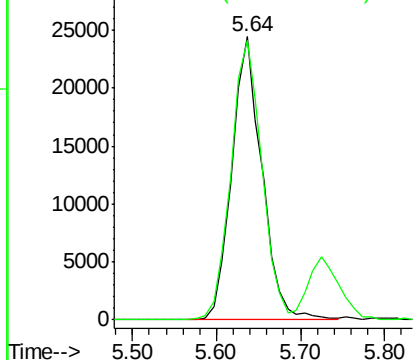
#44

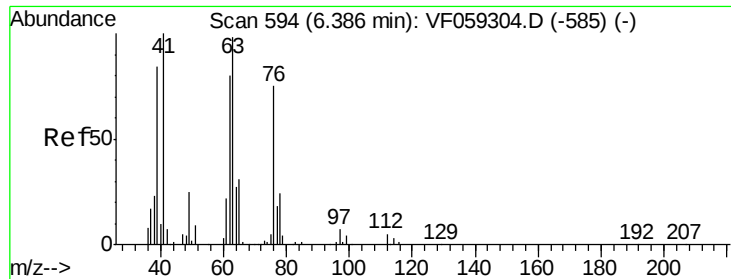
Trichloroethene
 Concen: 23.777 ug/l
 RT: 5.64 min Scan# 518
 Delta R.T. -0.02 min
 Lab File: VF059429.D
 Acq: 5 Jul 2018 12:58

Tgt Ion: 130 Resp: 60777
 Ion Ratio Lower Upper
 130 100
 95 98.9 0.0 202.4



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





#45

1,2-Dichloropropane

Concen: 22.674 ug/l

RT: 6.37 min Scan# 592

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

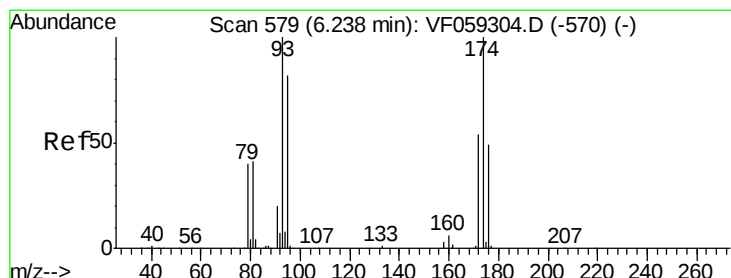
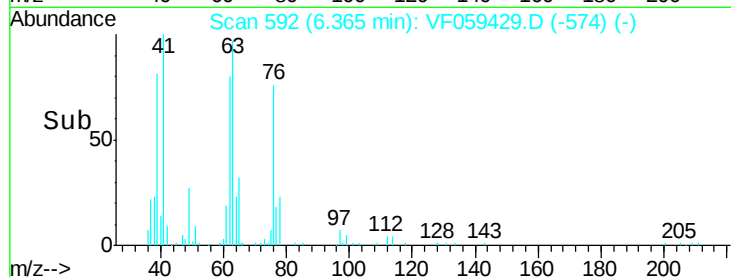
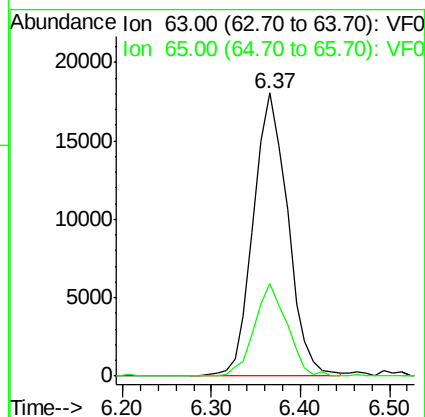
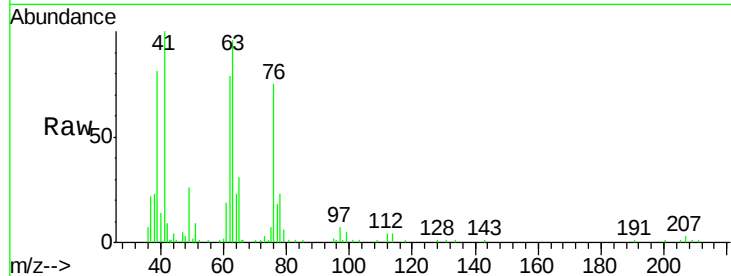
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 63 Resp: 48271

Ion Ratio Lower Upper

63 100

65 32.7 25.3 37.9



#46

Dibromomethane

Concen: 23.210 ug/l

RT: 6.22 min Scan# 577

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

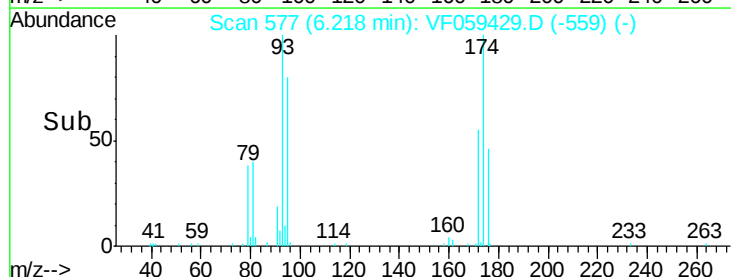
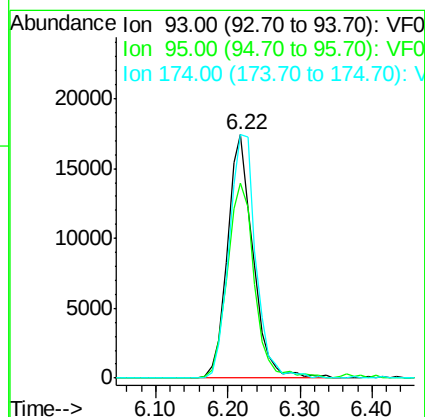
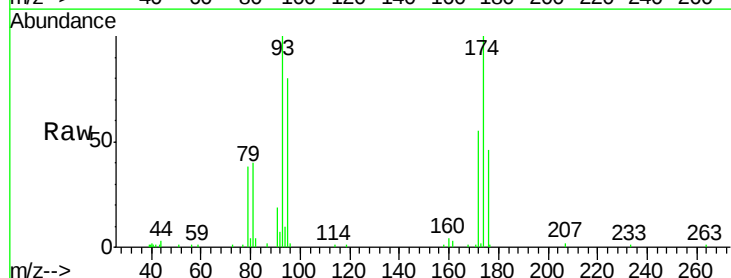
Tgt Ion: 93 Resp: 42887

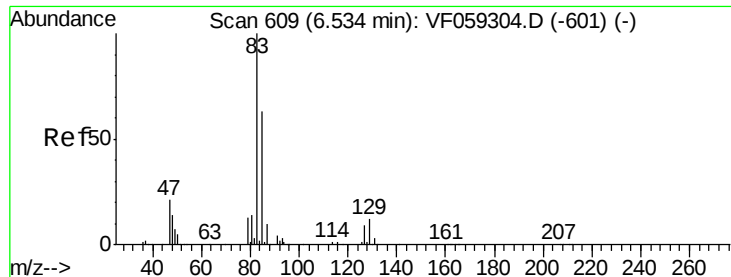
Ion Ratio Lower Upper

93 100

95 79.9 65.6 98.4

174 99.9 80.0 120.0





#47

Bromodichloromethane

Concen: 24.518 ug/l

RT: 6.51 min Scan# 607

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

ClientSampleId :

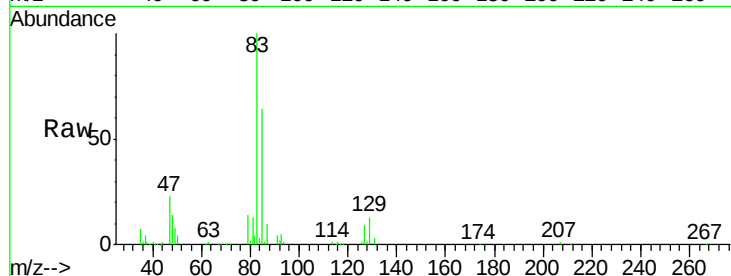
Tot Ion: 83 Resp: 109664

Ion Ratio Lower Upper

83 100

85 63.6 50.2 75.2

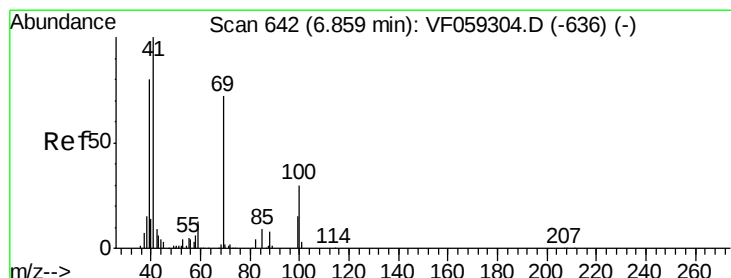
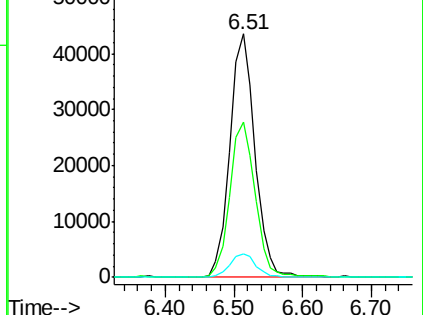
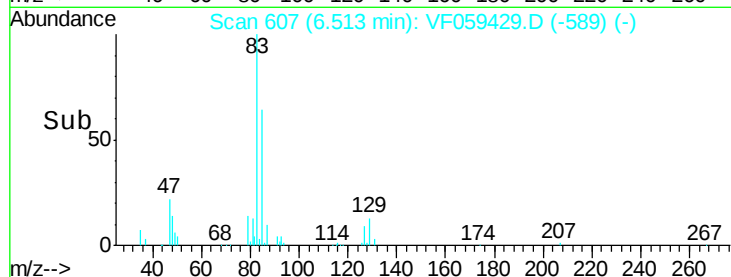
127 9.5 7.0 10.4



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: 23.320 ug/l

RT: 6.84 min Scan# 640

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

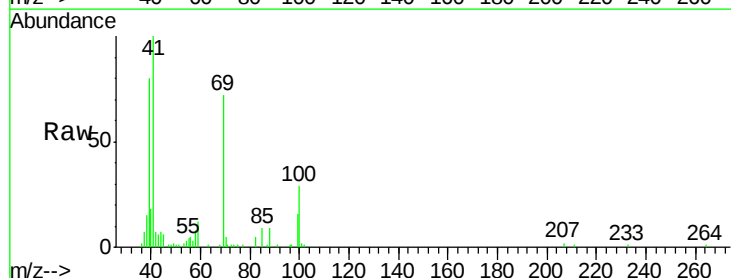
Tgt Ion: 41 Resp: 43751

Ion Ratio Lower Upper

41 100

69 72.0 57.3 85.9

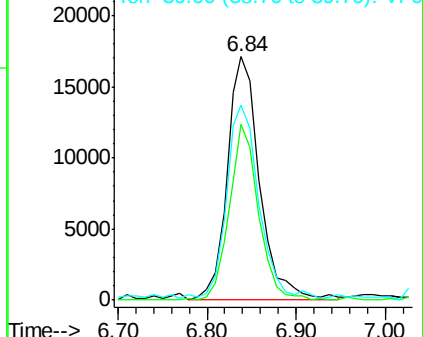
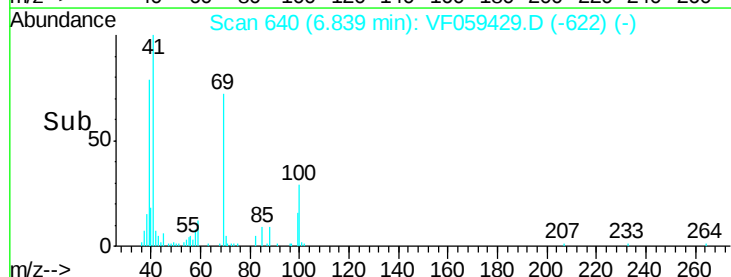
39 80.0 64.4 96.6

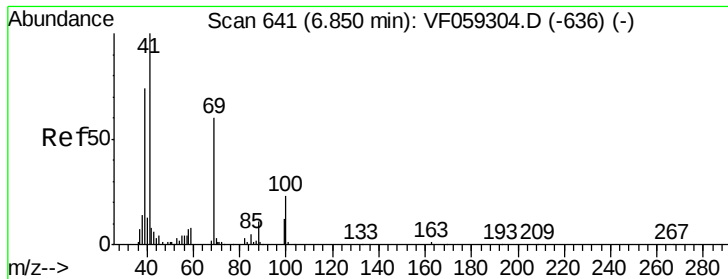


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 374.162 ug/l

RT: 6.83 min Scan# 639

Delta R.T. -0.02 min

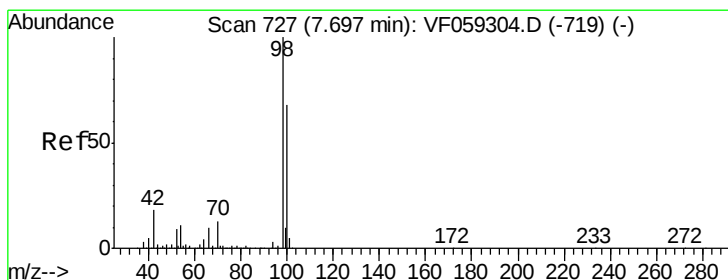
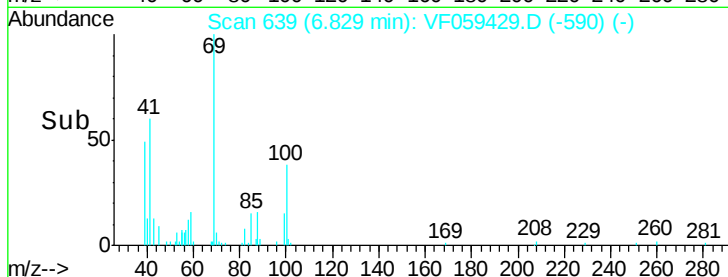
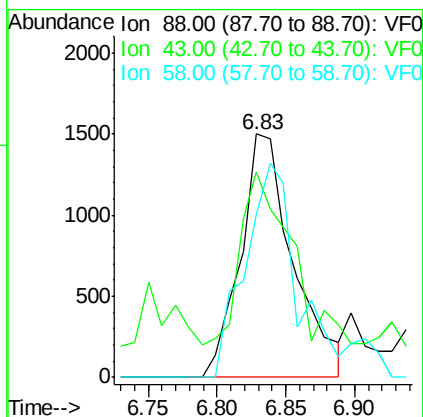
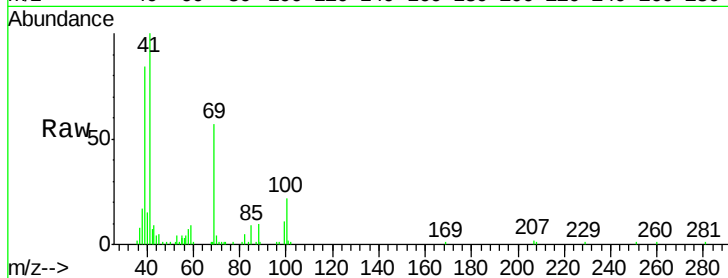
Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 88 Resp: 4012

Ion	Ratio	Lower	Upper
88	100		
43	84.5	50.6	75.8#
58	67.0	46.6	69.8



#50

Toluene-d8

Concen: 46.962 ug/l

RT: 7.68 min Scan# 725

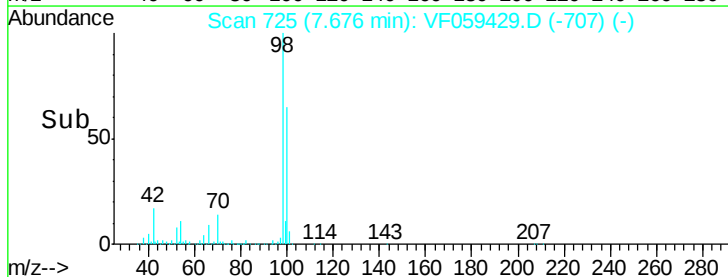
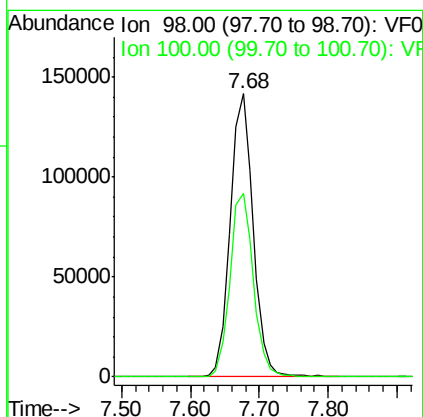
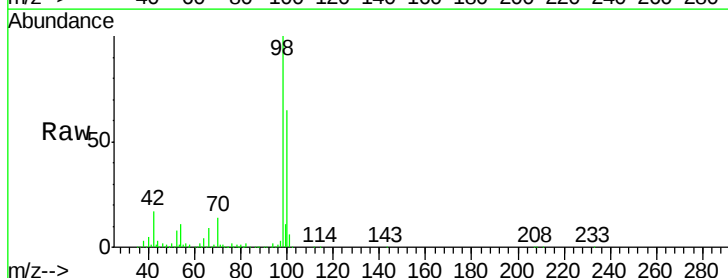
Delta R.T. -0.02 min

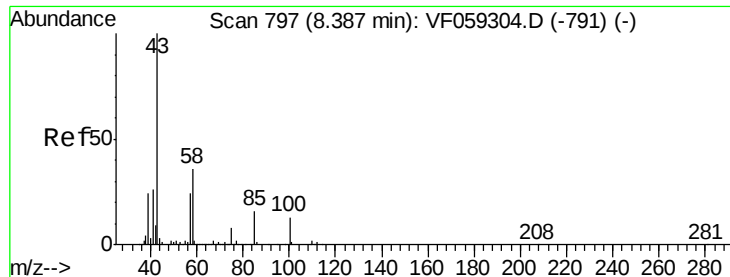
Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Tgt Ion: 98 Resp: 326832

Ion	Ratio	Lower	Upper
98	100		
100	65.1	54.6	82.0





#51

4-Methyl-2-Pentanone

Concen: 123.051 ug/l

RT: 8.38 min Scan# 796

Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

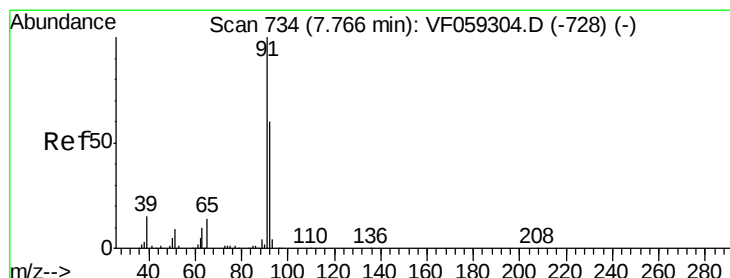
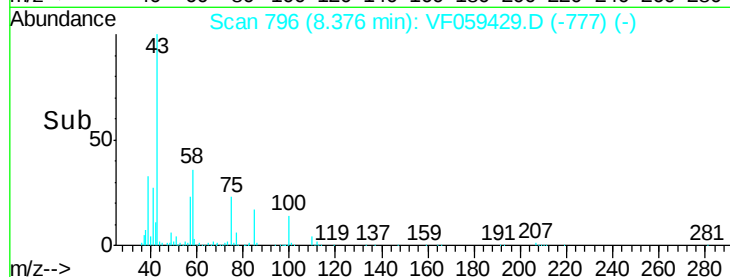
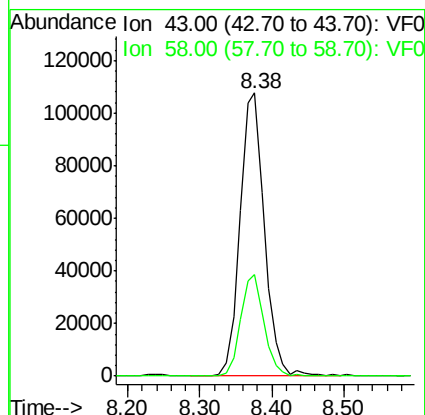
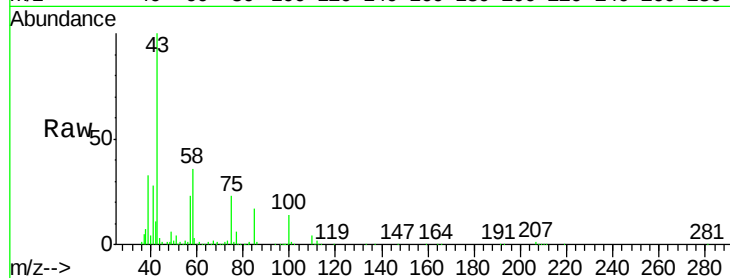
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 255188

Ion Ratio Lower Upper

43 100

58 36.0 28.4 42.6



#52

Toluene

Concen: 21.181 ug/l

RT: 7.75 min Scan# 732

Delta R.T. -0.02 min

Lab File: VF059429.D

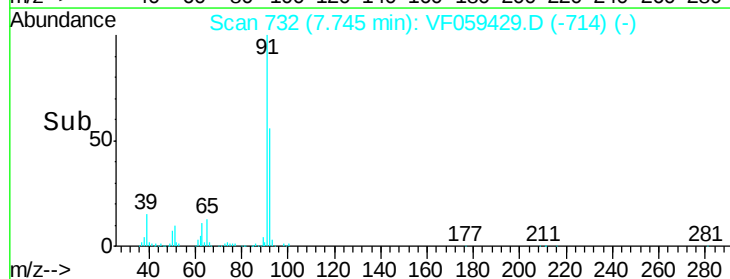
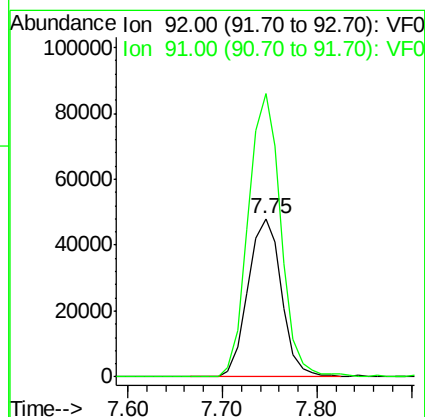
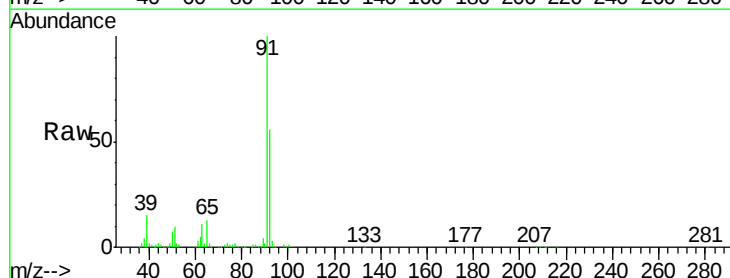
Acq: 5 Jul 2018 12:58

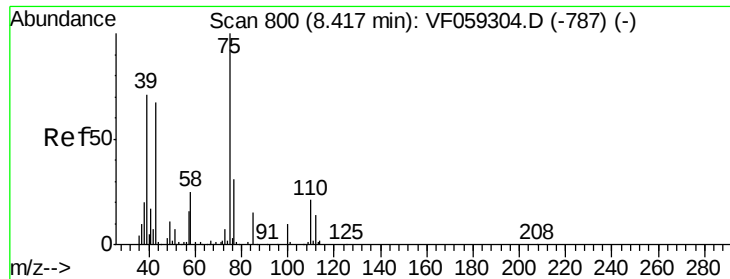
Tgt Ion: 92 Resp: 118098

Ion Ratio Lower Upper

92 100

91 178.5 132.8 199.2





#53

t-1,3-Dichloropropene

Concen: 26.098 ug/l

RT: 8.40 min Scan# 798

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

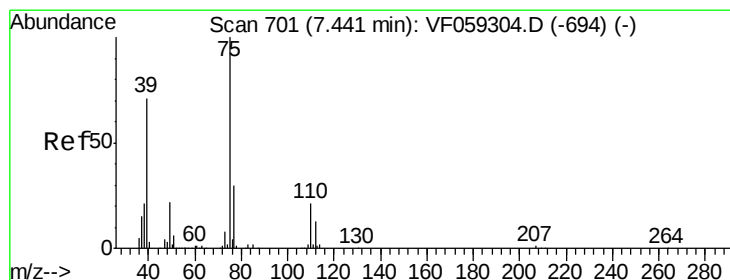
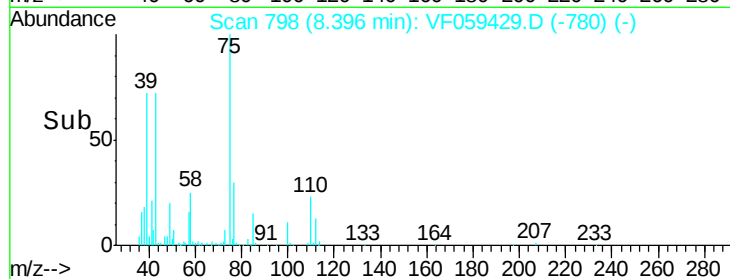
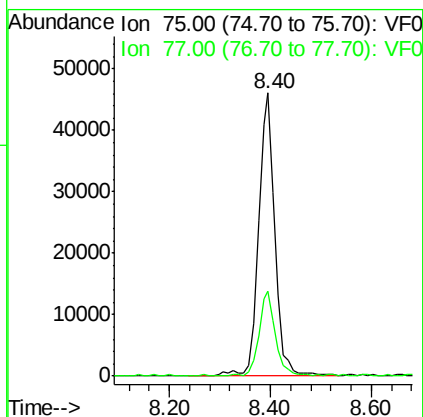
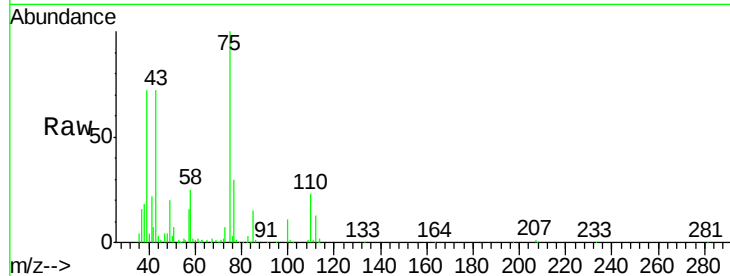
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 75 Resp: 106404

Ion Ratio Lower Upper

75 100

77 30.1 25.3 37.9



#54

cis-1,3-Dichloropropene

Concen: 23.580 ug/l

RT: 7.42 min Scan# 699

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

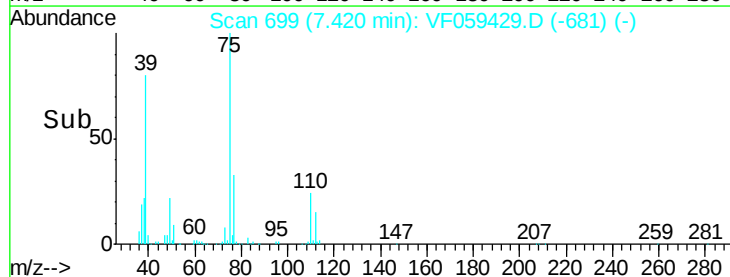
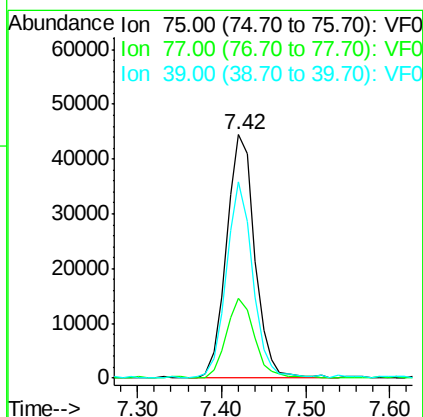
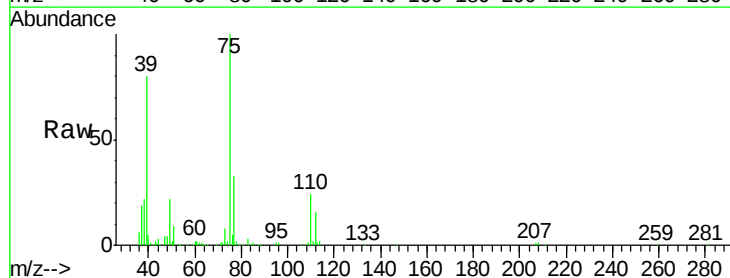
Tgt Ion: 75 Resp: 104425

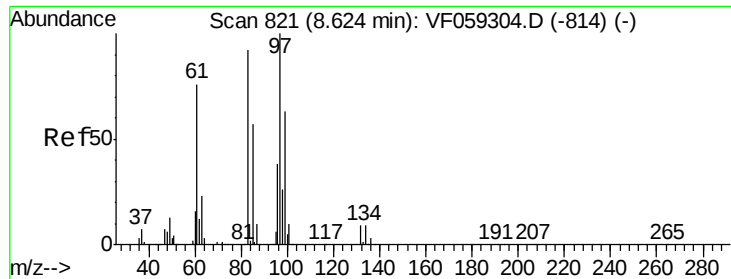
Ion Ratio Lower Upper

75 100

77 33.0 24.3 36.5

39 80.4 57.2 85.8





#55

1,1,2-Trichloroethane

Concen: 23.580 ug/l

RT: 8.60 min Scan# 819

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 97 Resp: 51046

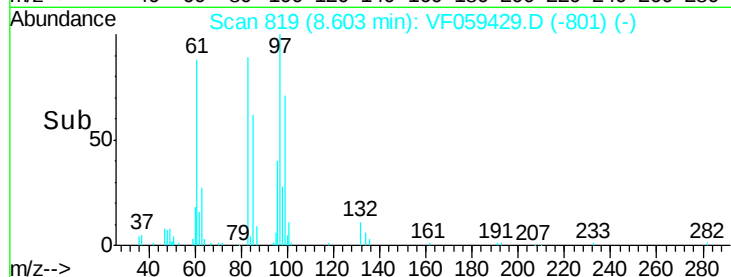
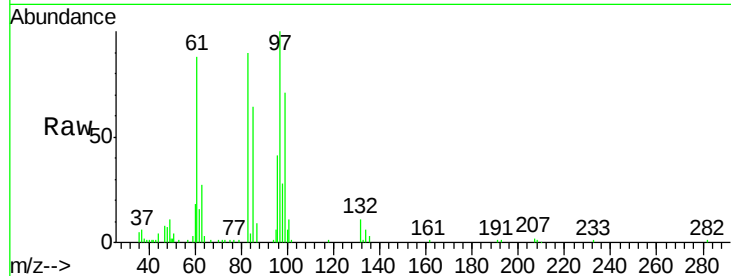
Ion	Ratio	Lower	Upper
97	100		
83	89.6	73.8	110.8
85	63.9	45.5	68.3
99	71.2	50.7	76.1

97 100

83 89.6 73.8 110.8

85 63.9 45.5 68.3

99 71.2 50.7 76.1

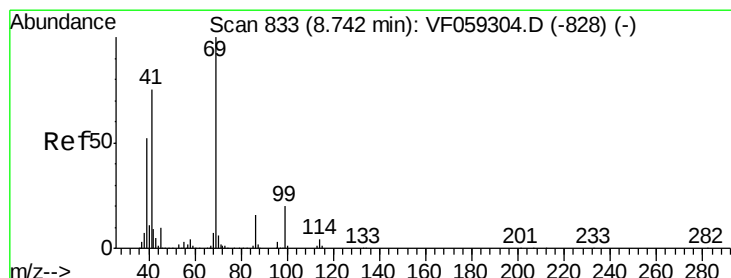
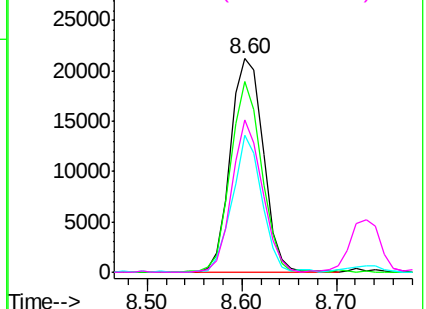


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 21.832 ug/l

RT: 8.73 min Scan# 832

Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

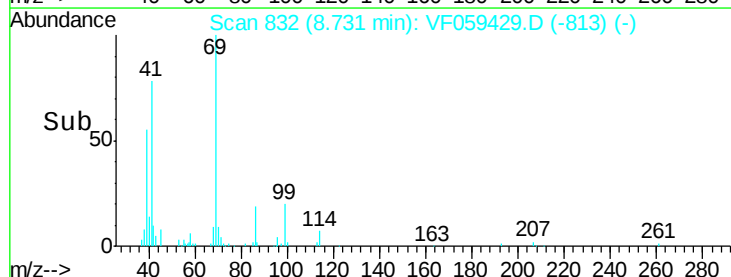
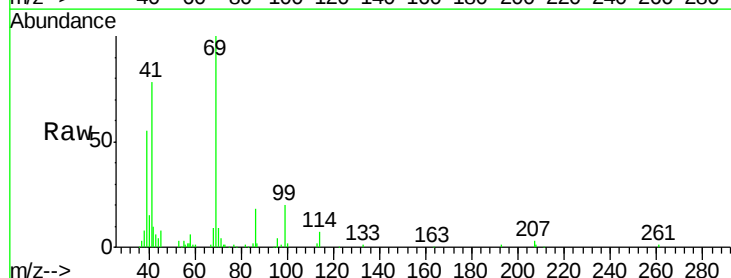
Tgt Ion: 69 Resp: 58548

Ion	Ratio	Lower	Upper
69	100		
41	77.9	60.3	90.5
39	55.1	42.2	63.4

69 100

41 77.9 60.3 90.5

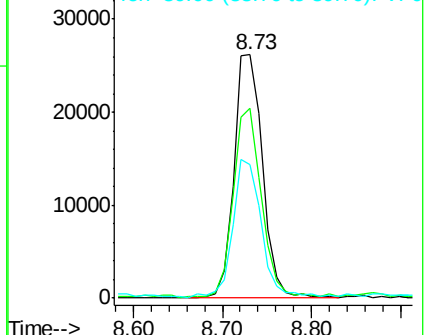
39 55.1 42.2 63.4

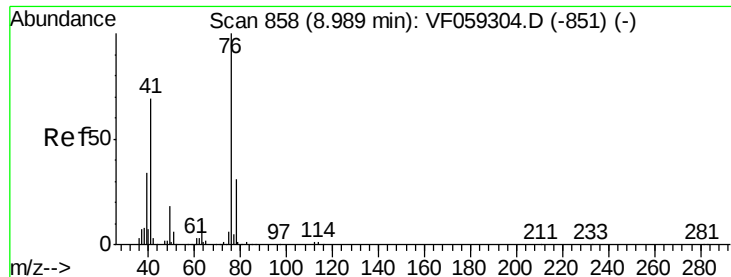


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 23.453 ug/l

RT: 8.97 min Scan# 856

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

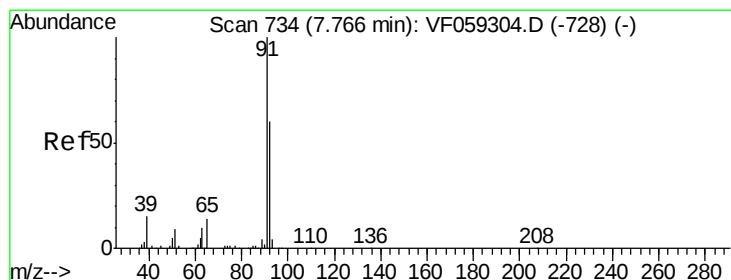
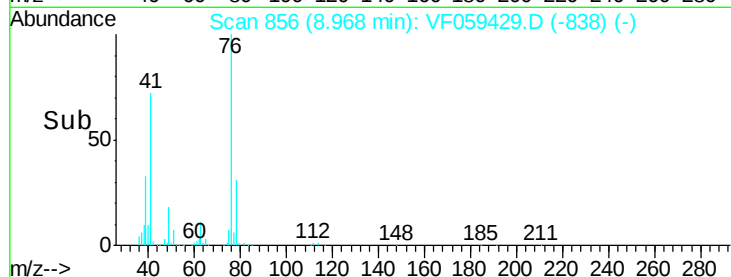
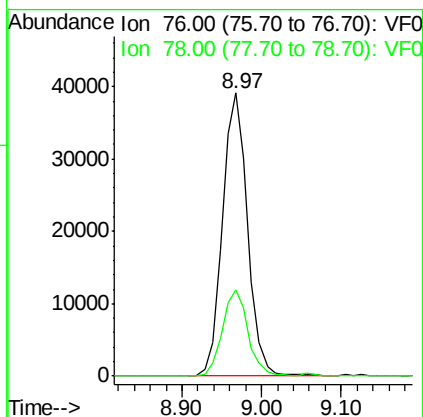
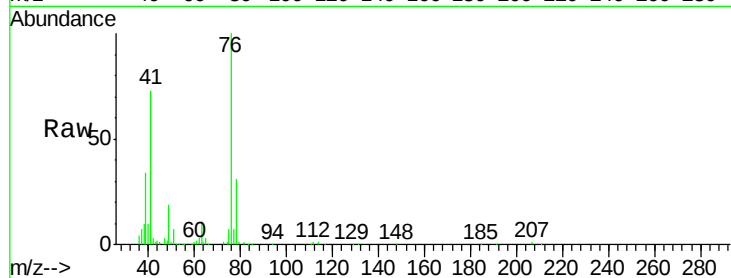
ClientSampleId :

Tot Ion: 76 Resp: 87077

Ion Ratio Lower Upper

76 100

78 30.6 24.9 37.3



#58

2-Chloroethyl Vinyl ether

Concen: 116.031 ug/l

RT: 7.75 min Scan# 732

Delta R.T. -0.02 min

Lab File: VF059429.D

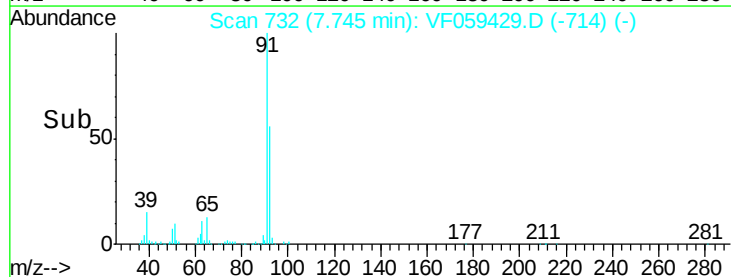
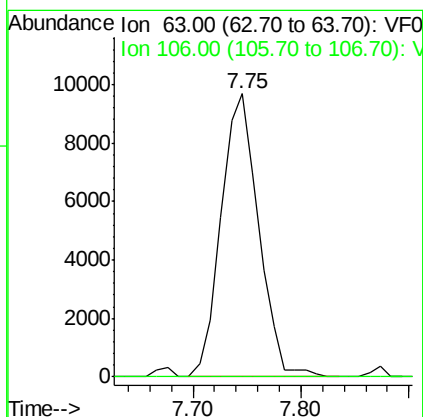
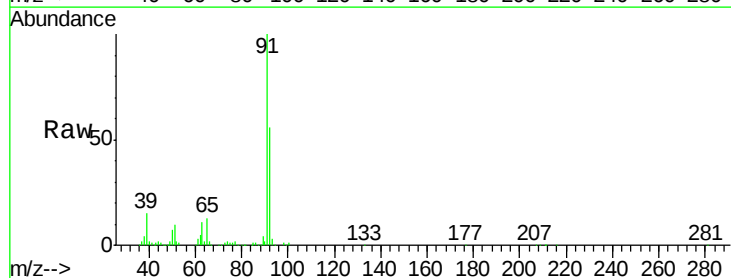
Acq: 5 Jul 2018 12:58

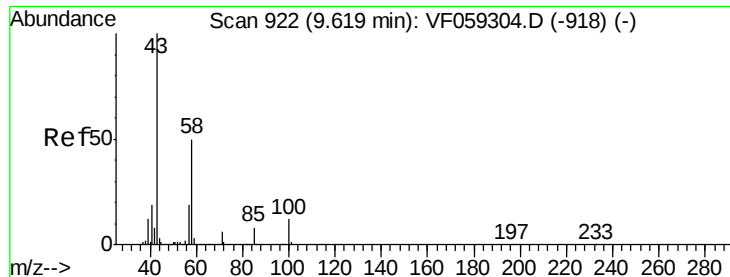
Tgt Ion: 63 Resp: 23337

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

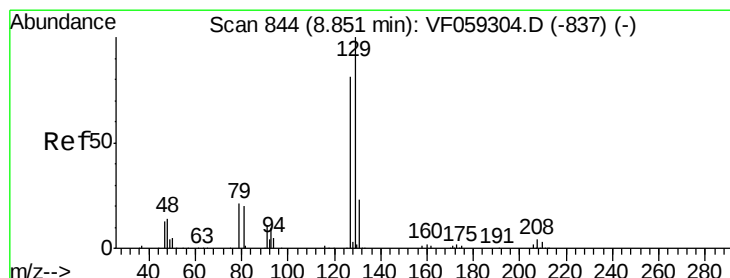
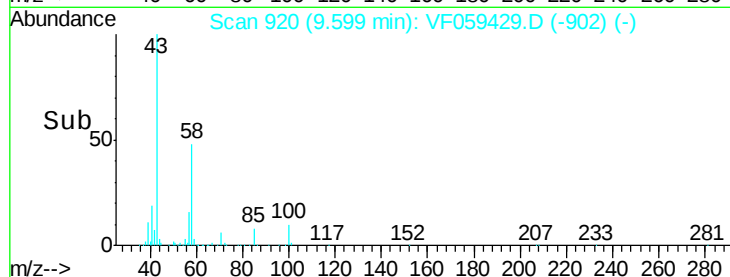
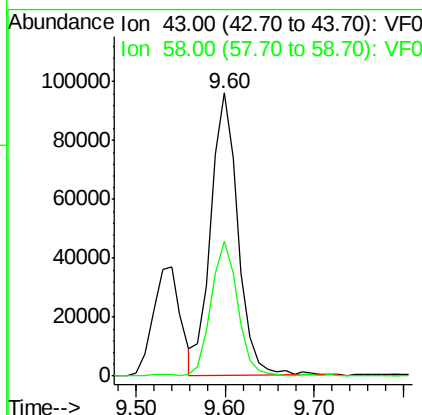
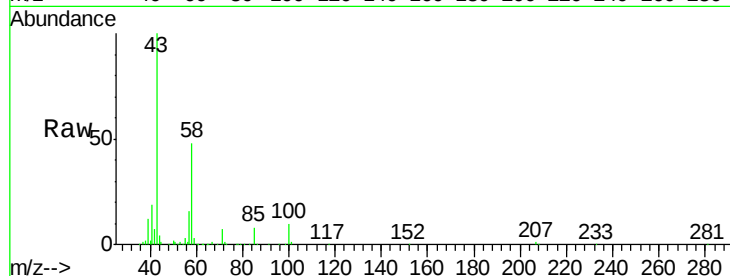




#59
2-Hexanone
Concen: 122.017 ug/l
RT: 9.60 min Scan# 920
Delta R.T. -0.02 min
Lab File: VF059429.D
Acq: 5 Jul 2018 12:58

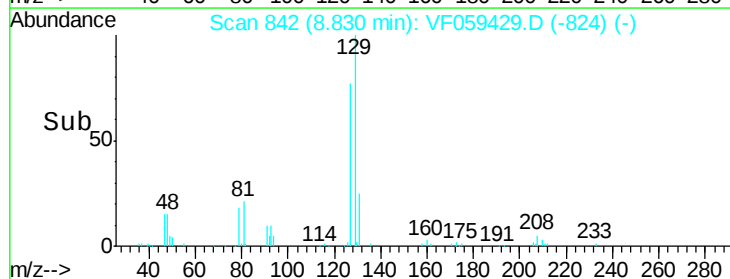
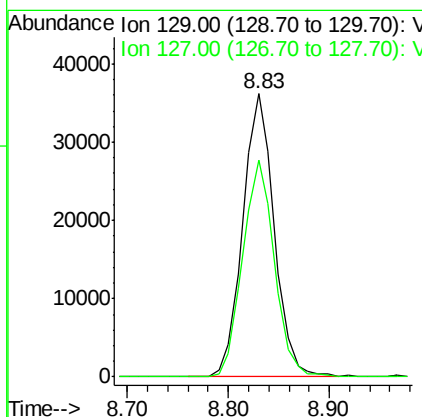
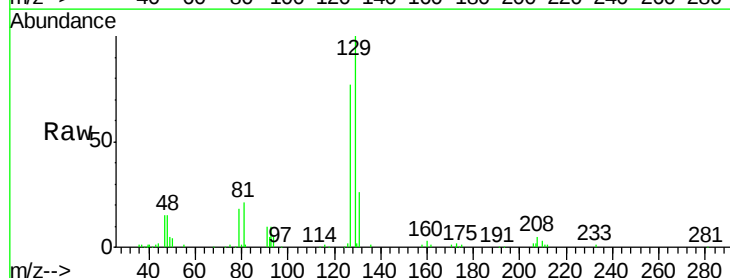
Instrument :
MSVOA_F
ClientSampleId :

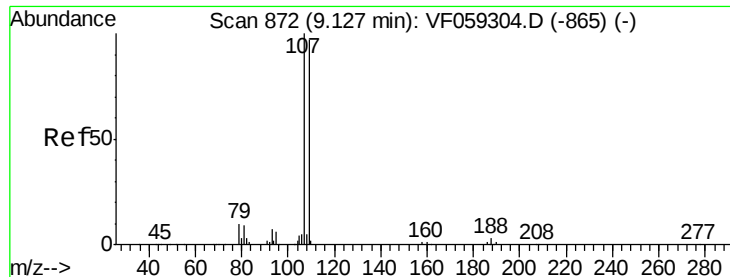
Tot Ion: 43 Resp: 203579
Ion Ratio Lower Upper
43 100
58 47.6 23.3 69.9



#60
Dibromochloromethane
Concen: 23.513 ug/l
RT: 8.83 min Scan# 842
Delta R.T. -0.02 min
Lab File: VF059429.D
Acq: 5 Jul 2018 12:58

Tgt Ion: 129 Resp: 78584
Ion Ratio Lower Upper
129 100
127 76.7 40.7 122.1





#61

1,2-Dibromoethane

Concen: 22.830 ug/l

RT: 9.11 min Scan# 870

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

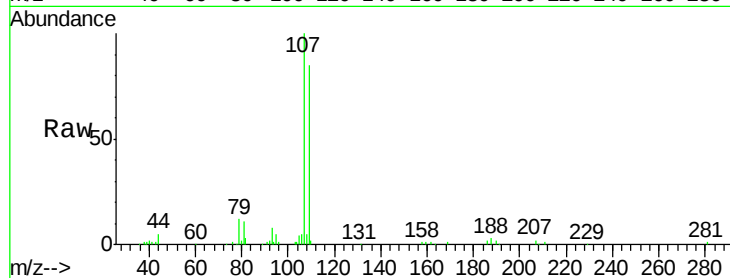
ClientSampleId :

Tot Ion:107 Resp: 59939

Ion Ratio Lower Upper

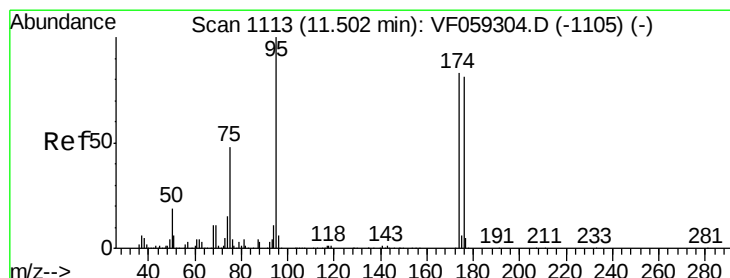
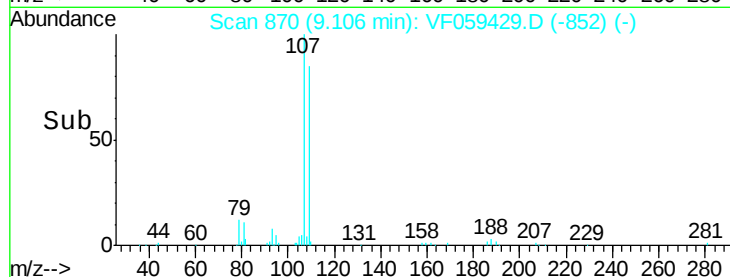
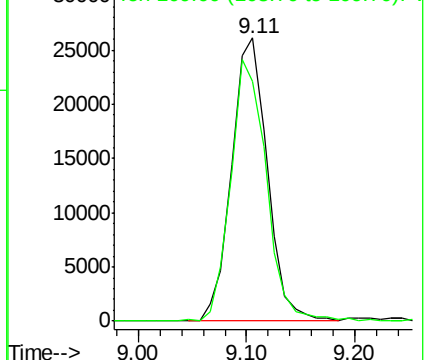
107 100

109 84.8 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: 46.915 ug/l

RT: 11.48 min Scan# 1111

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

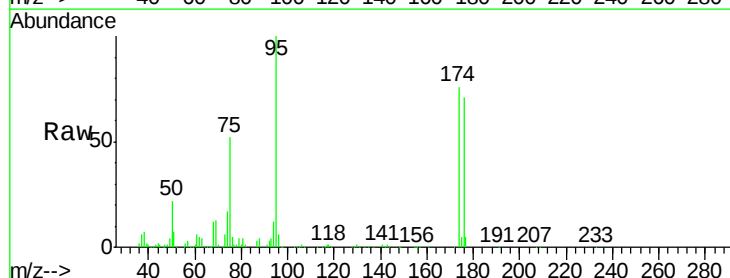
Tgt Ion: 95 Resp: 184176

Ion Ratio Lower Upper

95 100

174 76.1 0.0 165.2

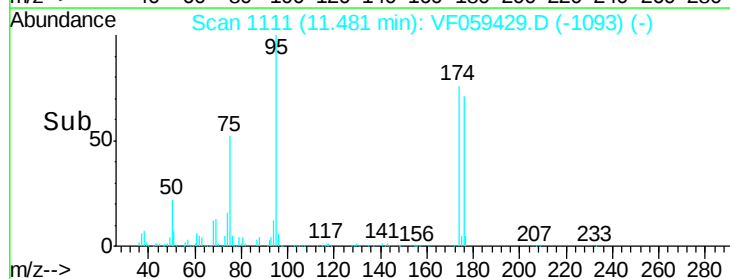
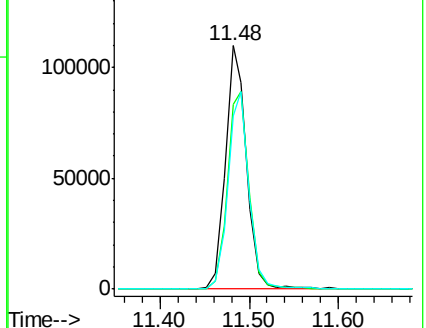
176 71.3 0.0 161.0

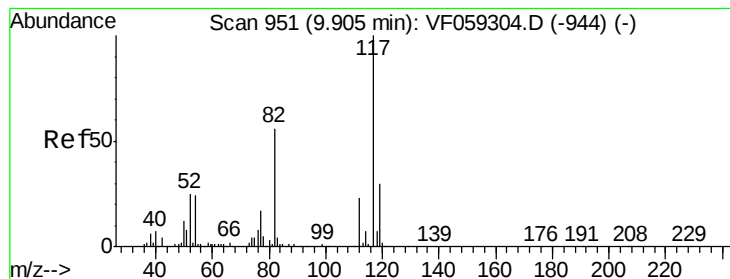


Abundance Ion 95.00 (94.70 to 95.70): VF0

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: 9.88 min Scan# 949

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :
MSVOA_F
ClientSampleId :

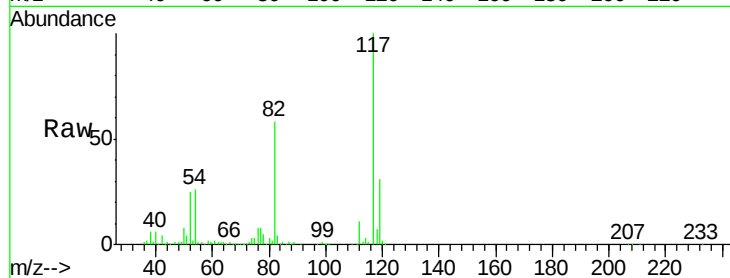
Tot Ion:117 Resp: 400239

Ion Ratio Lower Upper

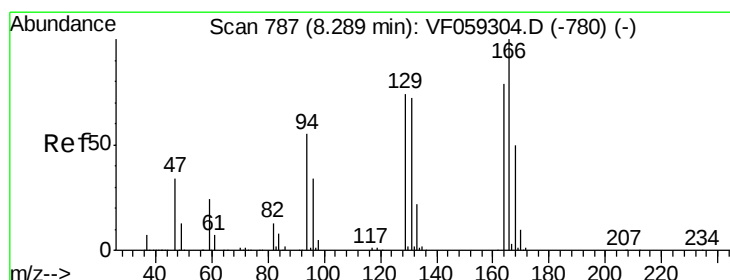
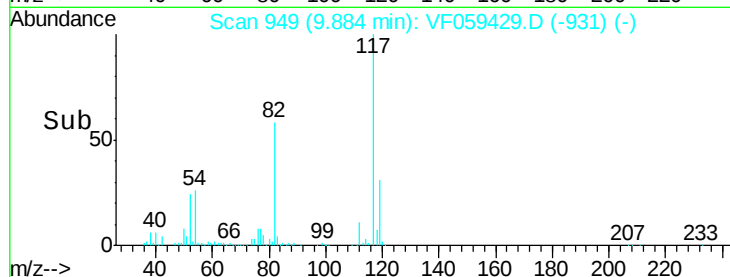
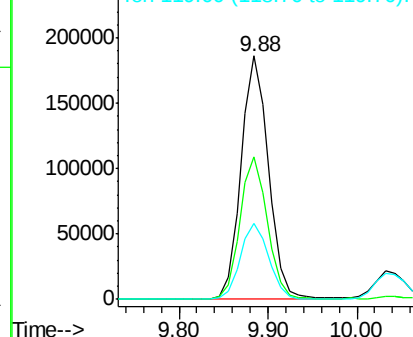
117 100

82 58.5 44.6 66.8

119 31.4 24.1 36.1



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



#64

Tetrachloroethene

Concen: 23.791 ug/l

RT: 8.27 min Scan# 785

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Tgt Ion:164 Resp: 61758

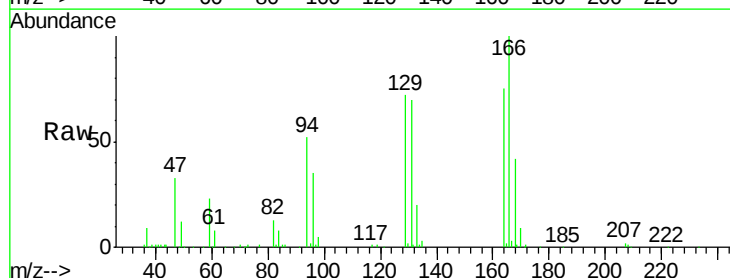
Ion Ratio Lower Upper

164 100

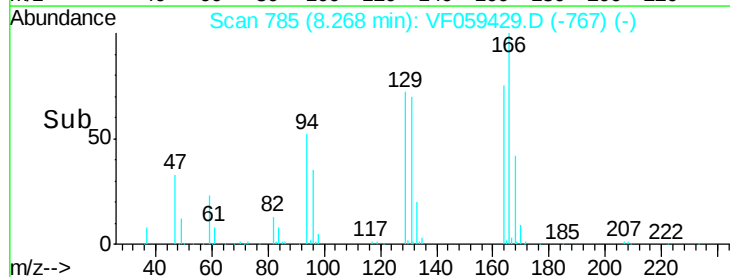
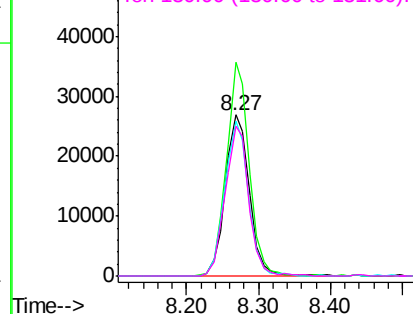
166 132.6 101.1 151.7

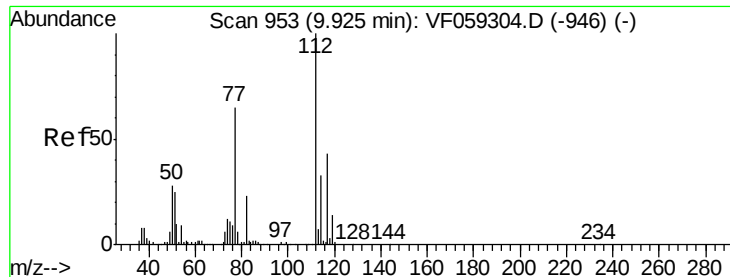
129 96.1 75.0 112.4

131 93.0 73.3 109.9



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





#65

Chlorobenzene

Concen: 22.333 ug/l

RT: 9.90 min Scan# 951

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

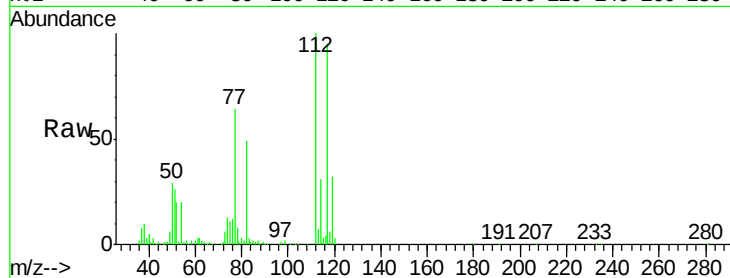
ClientSampleId :

Tot Ion:112 Resp: 165629

Ion Ratio Lower Upper

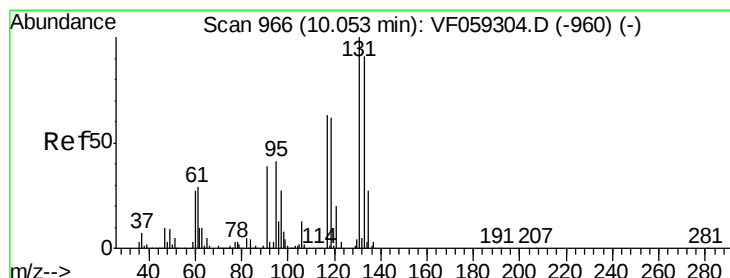
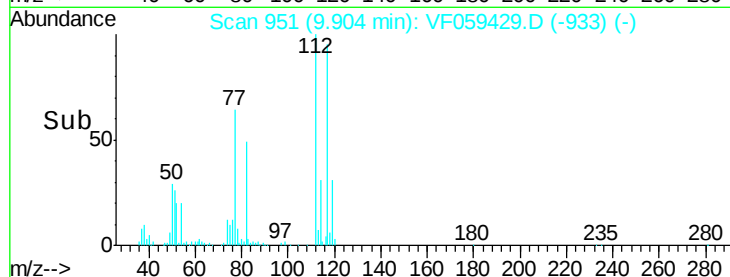
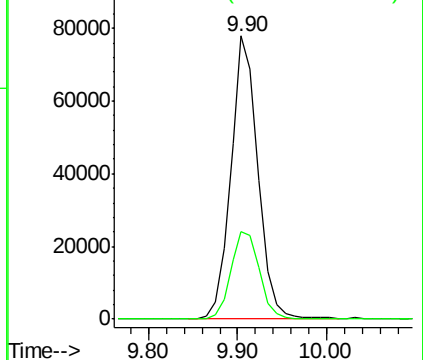
112 100

114 31.0 26.5 39.7



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 22.636 ug/l

RT: 10.04 min Scan# 965

Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

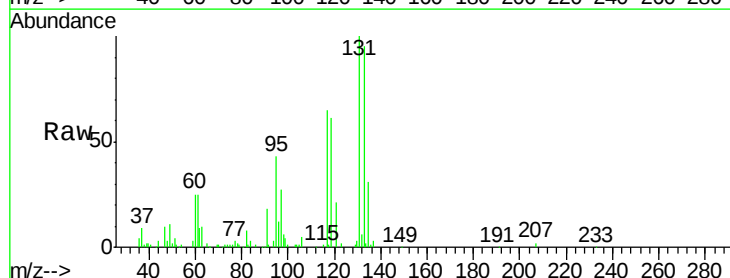
Tgt Ion:131 Resp: 72607

Ion Ratio Lower Upper

131 100

133 96.8 45.3 135.9

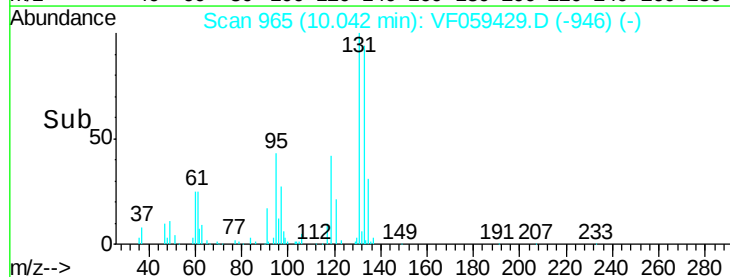
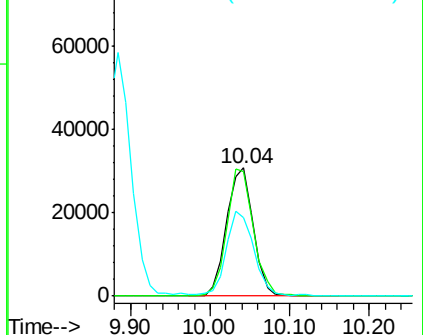
119 60.7 31.3 93.9

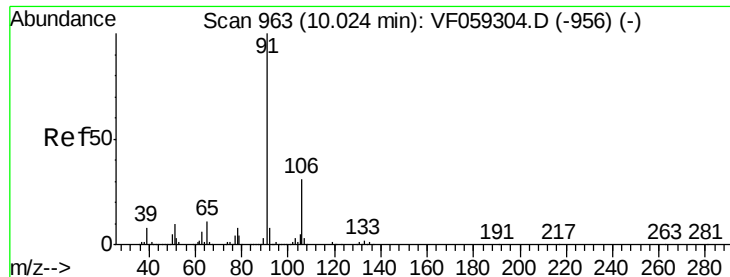


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#67

Ethyl Benzene

Concen: 22.548 ug/l

RT: 10.00 min Scan# 961

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

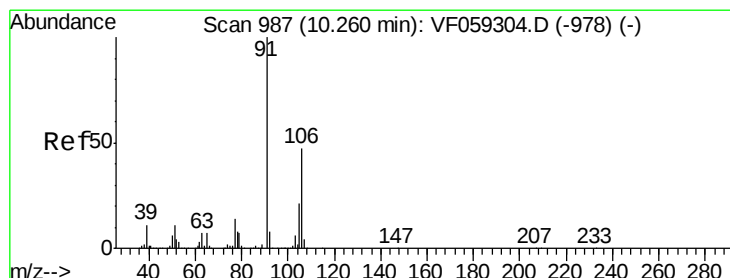
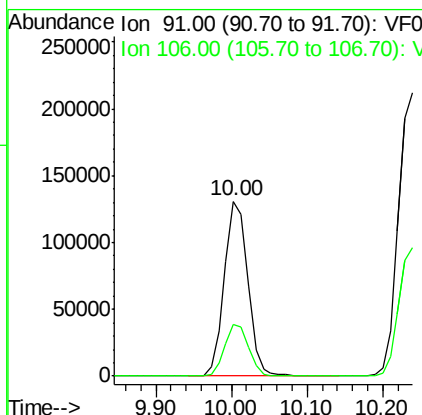
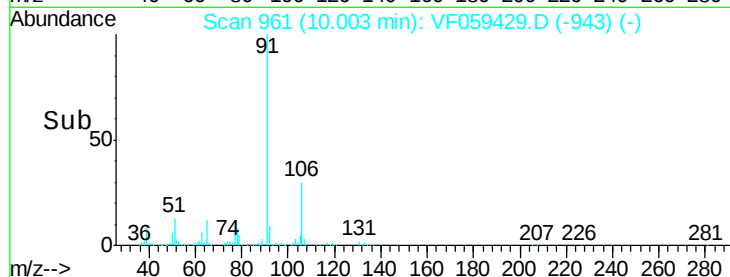
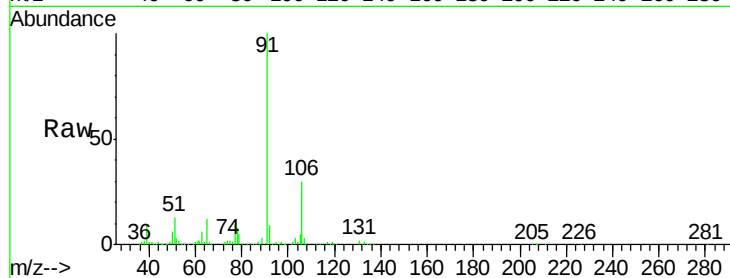
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 91 Resp: 283694

Ion Ratio Lower Upper

91 100

106 29.5 24.8 37.2



#68

m/p-Xylenes

Concen: 45.513 ug/l

RT: 10.24 min Scan# 985

Delta R.T. -0.02 min

Lab File: VF059429.D

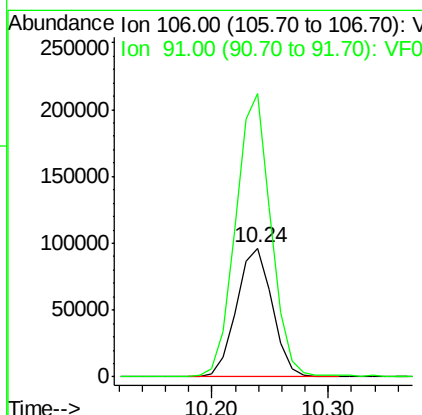
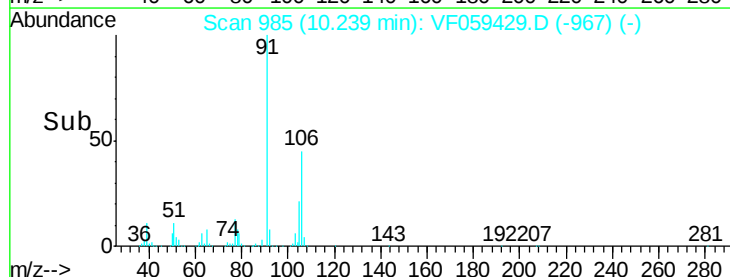
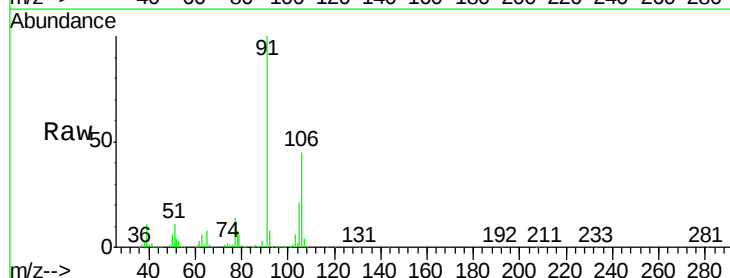
Acq: 5 Jul 2018 12:58

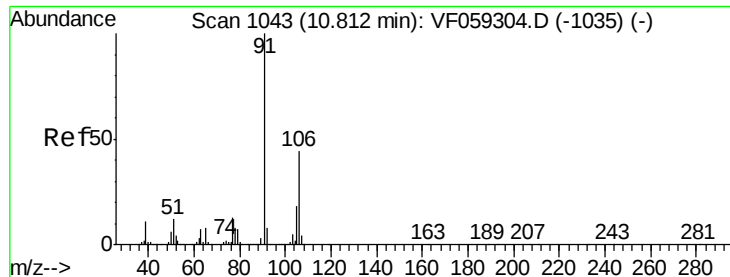
Tgt Ion: 106 Resp: 203814

Ion Ratio Lower Upper

106 100

91 219.9 170.8 256.2

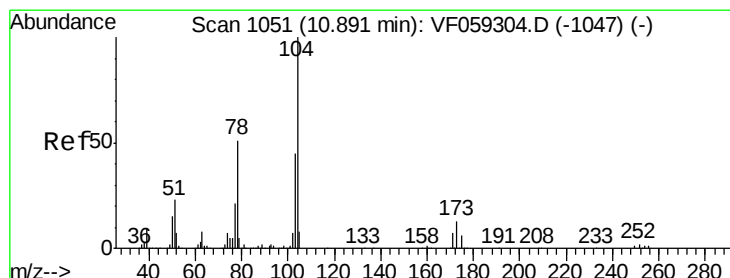
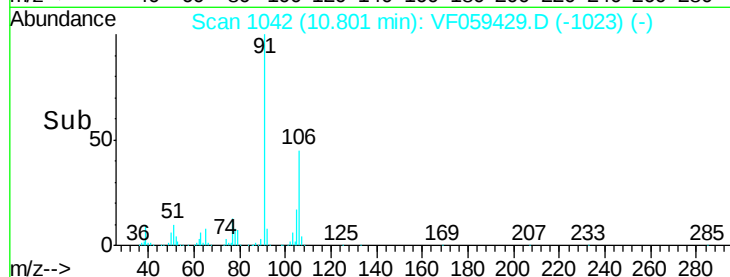
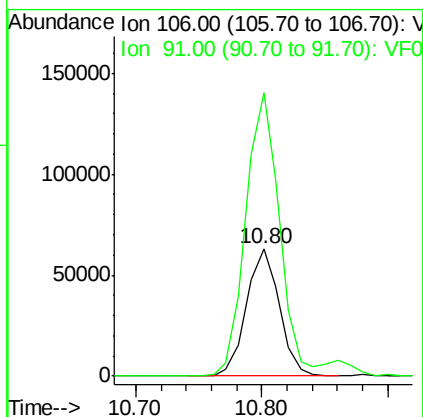
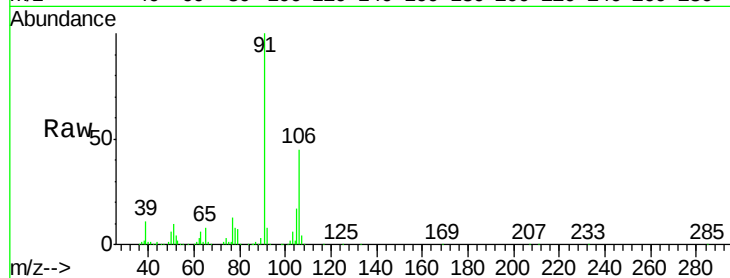




#69
o-Xylene
Concen: 22.871 ug/l
RT: 10.80 min Scan# 1042
Delta R.T. -0.01 min
Lab File: VF059429.D
Acq: 5 Jul 2018 12:58

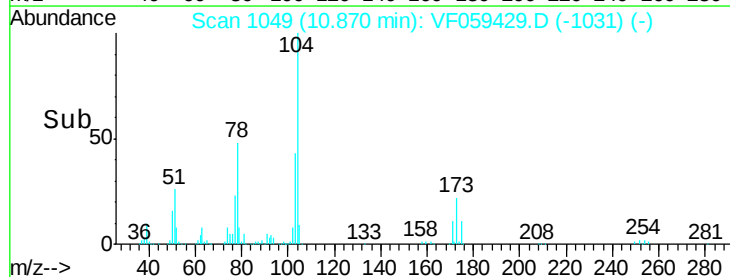
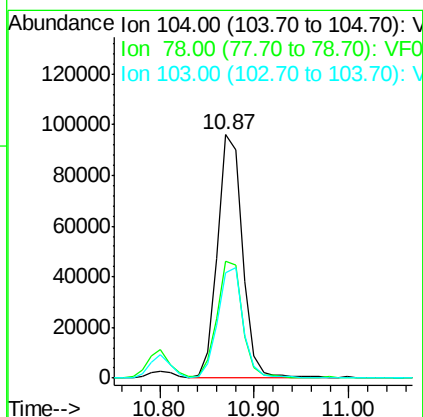
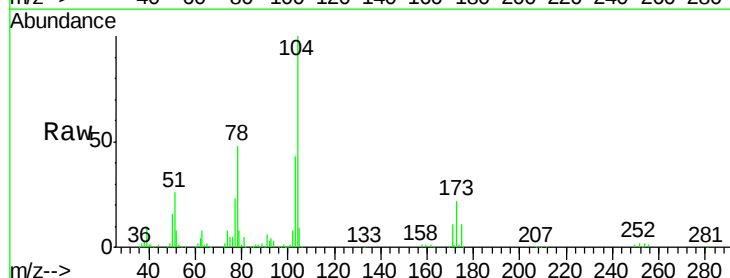
Instrument :
MSVOA_F
ClientSampleId :

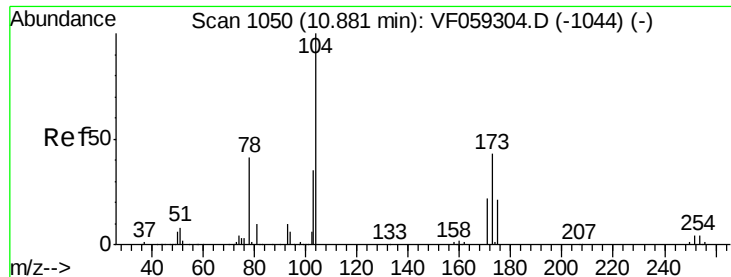
Tot Ion:106 Resp: 114558
Ion Ratio Lower Upper
106 100
91 221.4 114.6 343.6



#70
Styrene
Concen: 22.996 ug/l
RT: 10.87 min Scan# 1049
Delta R.T. -0.02 min
Lab File: VF059429.D
Acq: 5 Jul 2018 12:58

Tgt Ion:104 Resp: 175459
Ion Ratio Lower Upper
104 100
78 47.9 40.9 61.3
103 43.4 36.5 54.7





#71

Bromoform

Concen: 23.068 ug/l

RT: 10.86 min Scan# 1048

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

ClientSampled :

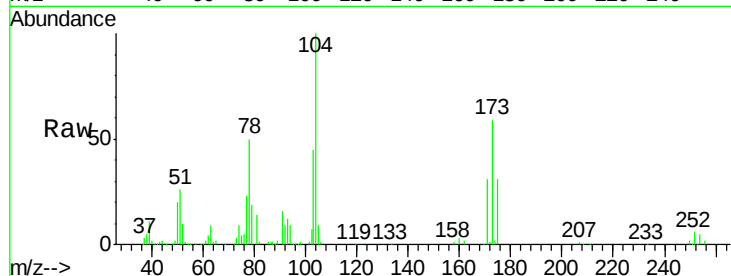
Tot Ion:173 Resp: 50716

Ion Ratio Lower Upper

173 100

175 52.0 24.8 74.3

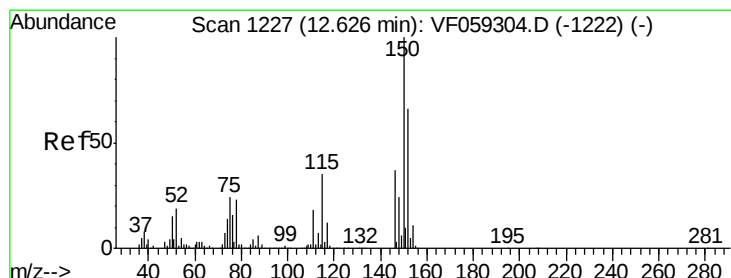
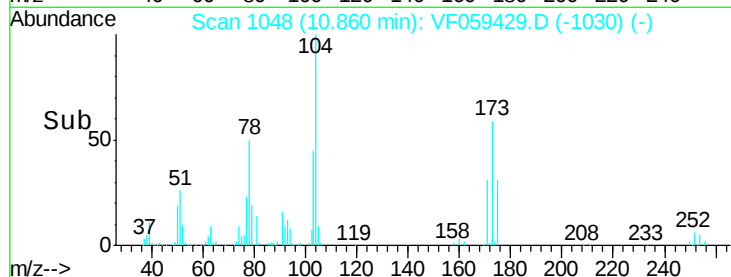
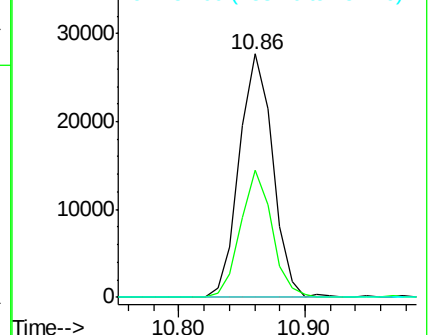
254 0.0 0.0 0.0



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.61 min Scan# 1226

Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

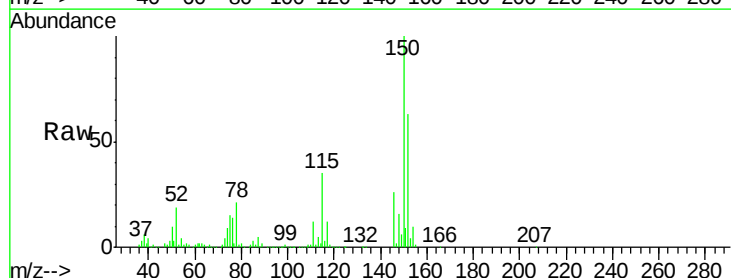
Tgt Ion:152 Resp: 258378

Ion Ratio Lower Upper

152 100

115 55.1 27.1 81.3

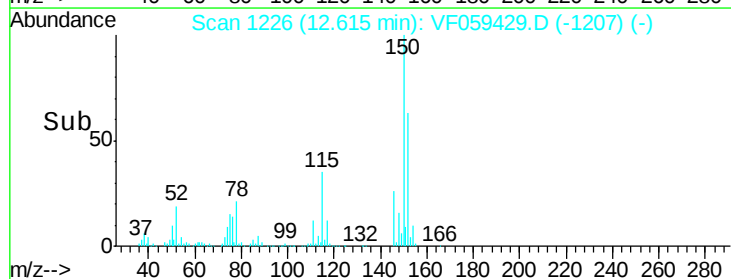
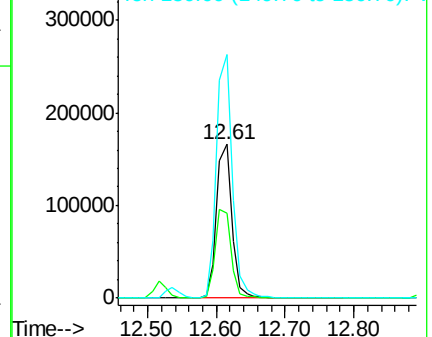
150 158.5 0.0 305.2

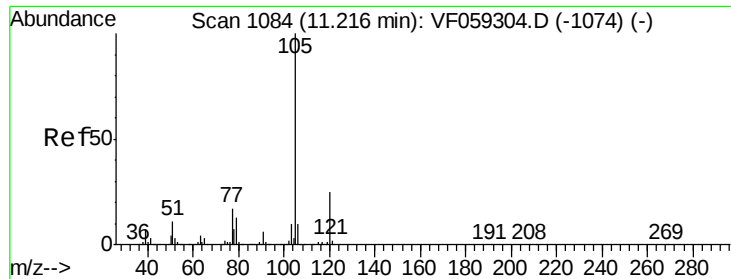


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 23.471 ug/l

RT: 11.21 min Scan# 1083

Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

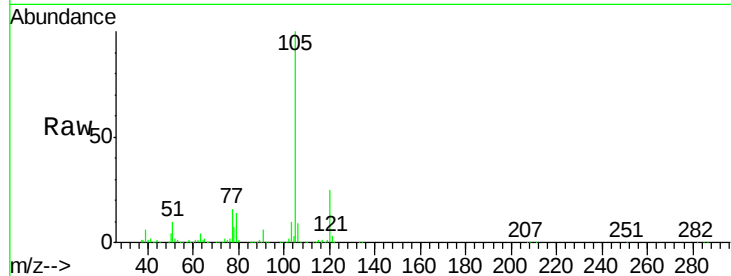
ClientSampleId :

Tot Ion:105 Resp: 353303

Ion Ratio Lower Upper

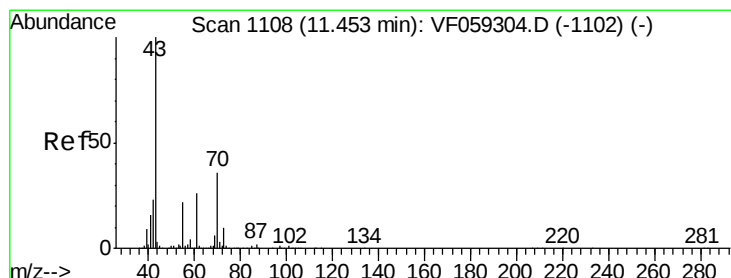
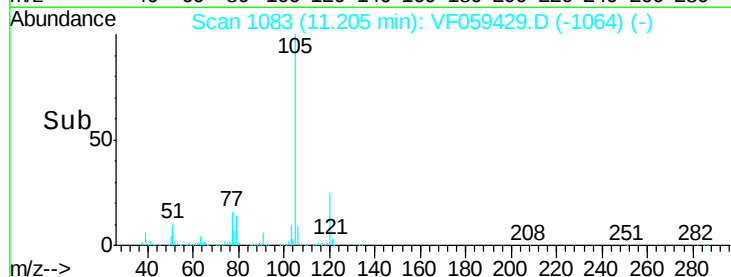
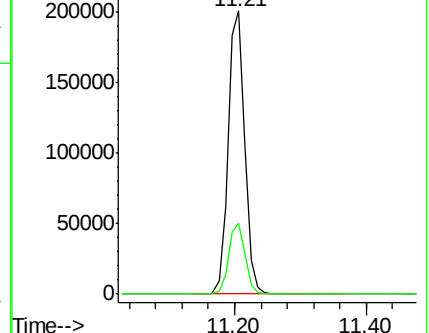
105 100

120 25.3 12.3 36.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 22.544 ug/l

RT: 11.44 min Scan# 1107

Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Tgt Ion: 43 Resp: 123144

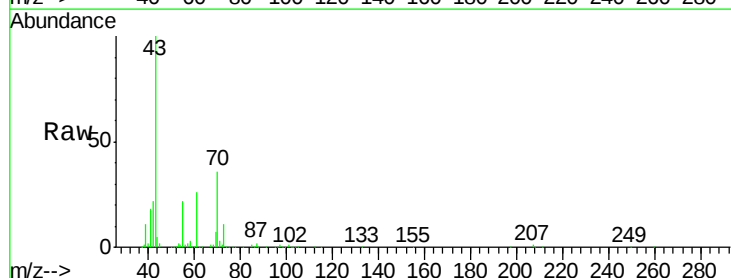
Ion Ratio Lower Upper

43 100

70 36.2 28.8 43.2

55 22.4 17.4 26.0

61 26.1 21.1 31.7

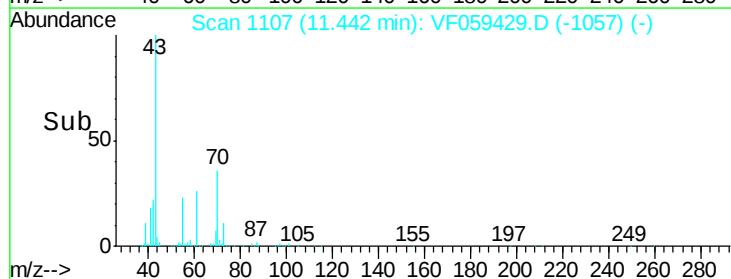
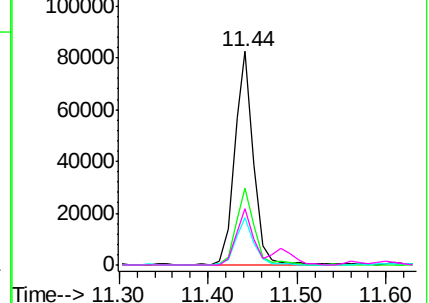


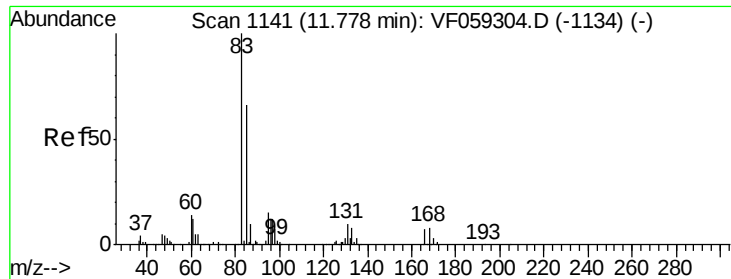
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 22.002 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

ClientSampleId :

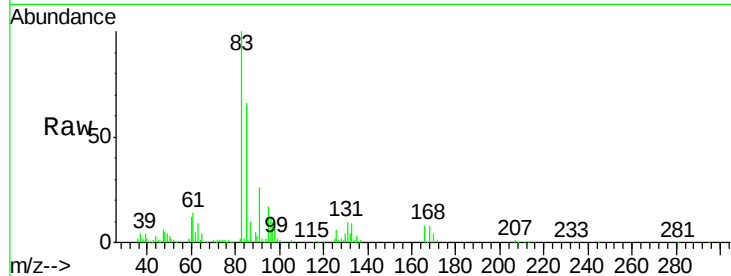
Tot Ion: 83 Resp: 83640

Ion Ratio Lower Upper

83 100

131 10.0 4.9 14.6

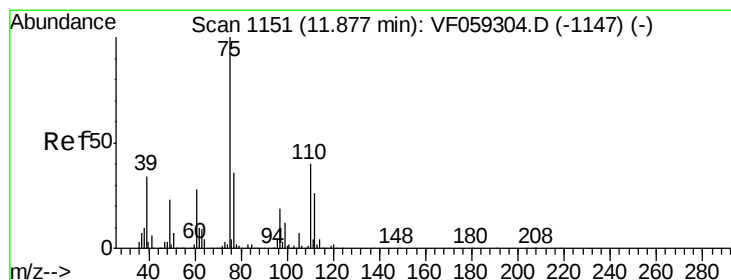
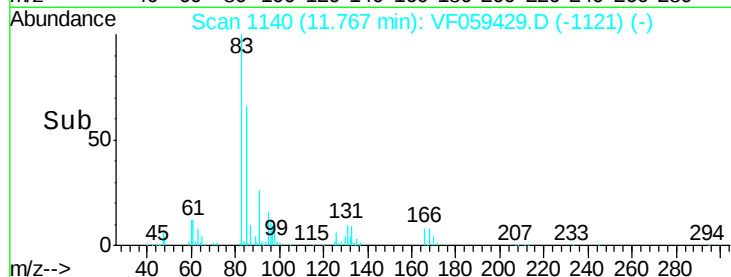
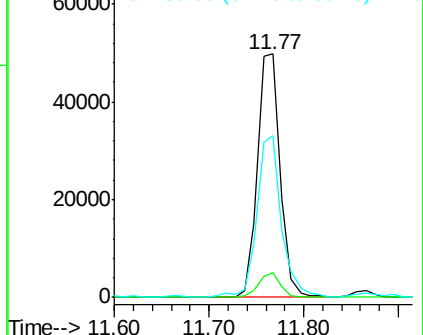
85 66.4 32.8 98.4



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: 22.074 ug/l

RT: 11.87 min Scan# 1150

Delta R.T. -0.01 min

Lab File: VF059429.D

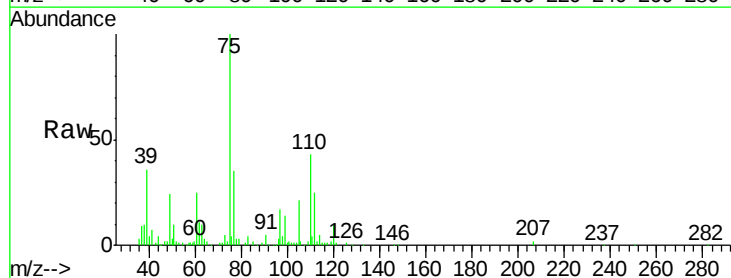
Acq: 5 Jul 2018 12:58

Tgt Ion: 75 Resp: 63299

Ion Ratio Lower Upper

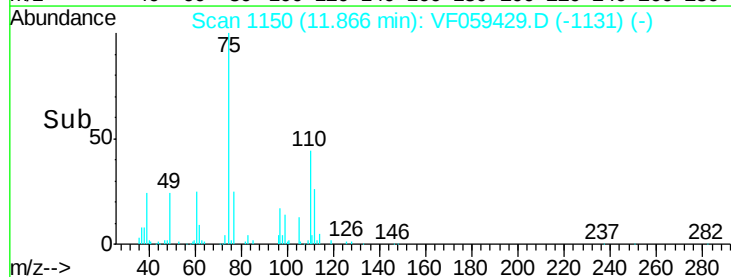
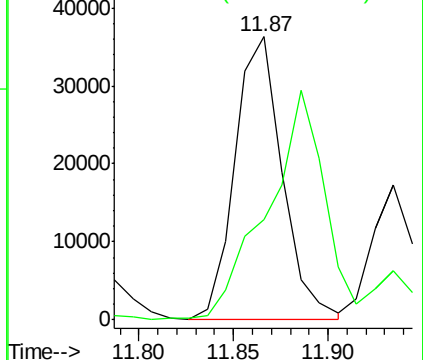
75 100

77 35.4 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: 22.347 ug/l

RT: 11.57 min Scan# 1120

Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

ClientSampled :

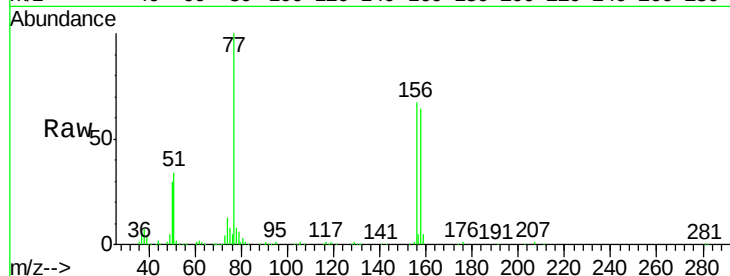
Tot Ion:156 Resp: 93325

Ion Ratio Lower Upper

156 100

77 149.6 79.7 238.9

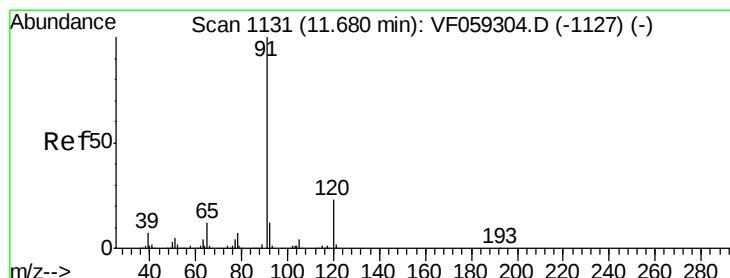
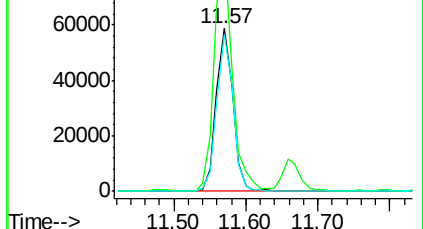
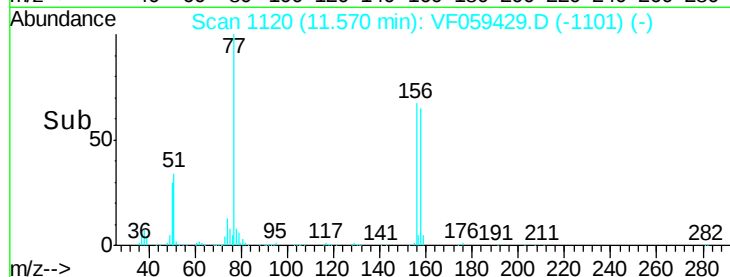
158 96.3 46.2 138.6



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 22.650 ug/l

RT: 11.66 min Scan# 1129

Delta R.T. -0.02 min

Lab File: VF059429.D

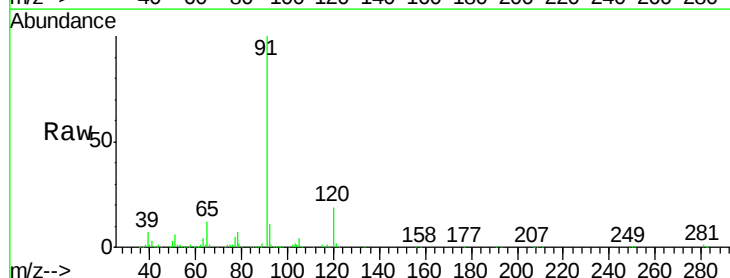
Acq: 5 Jul 2018 12:58

Tgt Ion: 91 Resp: 409463

Ion Ratio Lower Upper

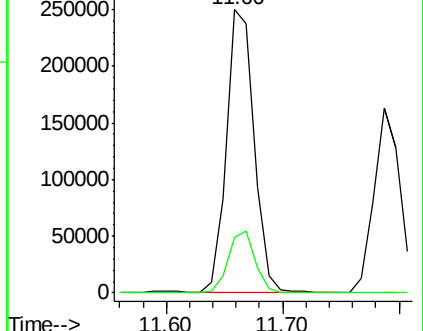
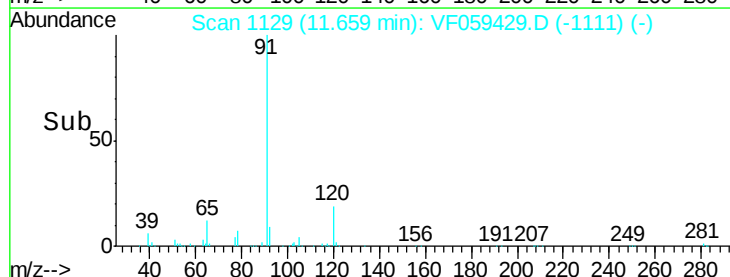
91 100

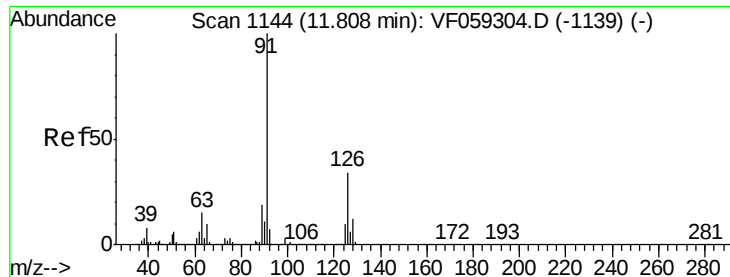
120 19.4 11.7 35.0



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 22.856 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

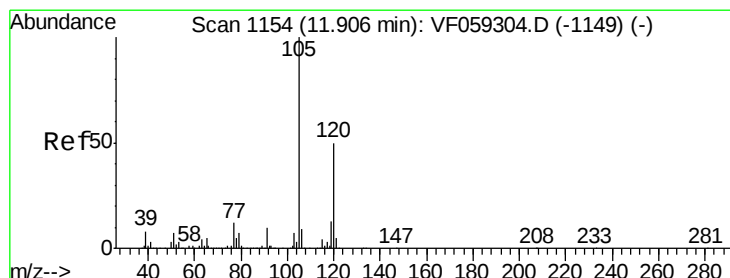
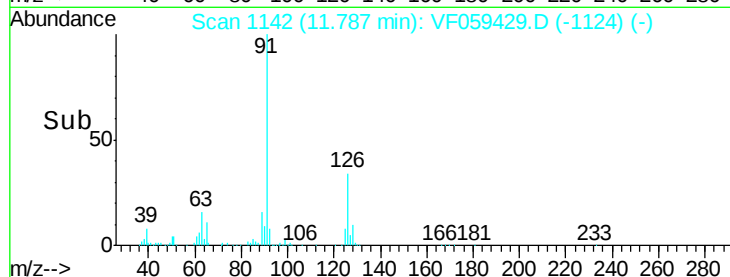
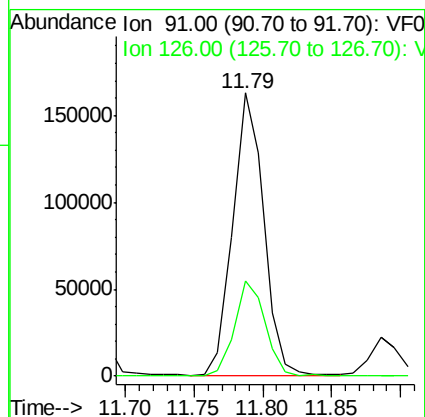
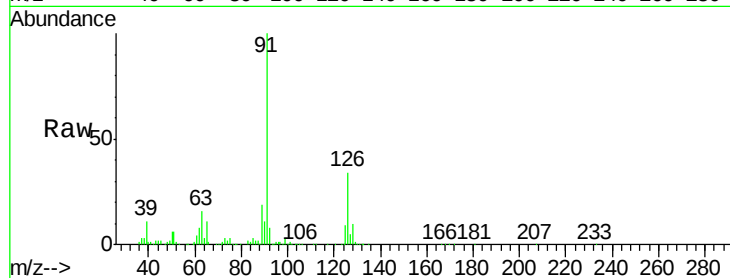
ClientSampled :

Tot Ion: 91 Resp: 252436

Ion Ratio Lower Upper

91 100

126 33.8 17.2 51.5



#80

1,3,5-Trimethylbenzene

Concen: 23.392 ug/l

RT: 11.89 min Scan# 1152

Delta R.T. -0.02 min

Lab File: VF059429.D

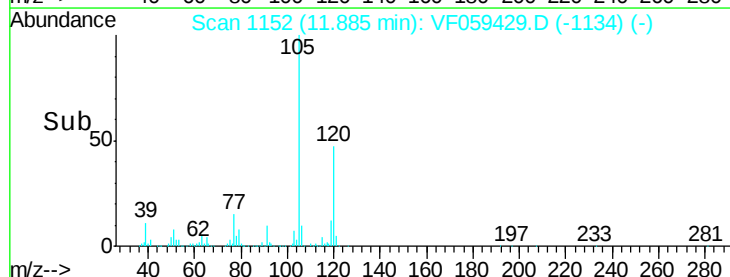
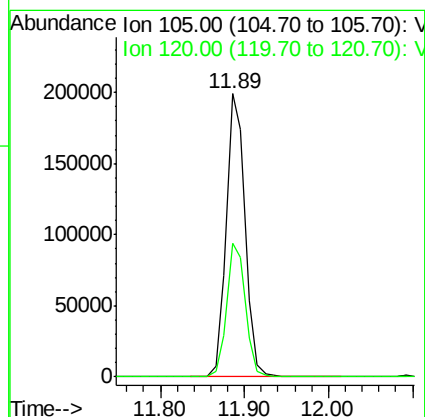
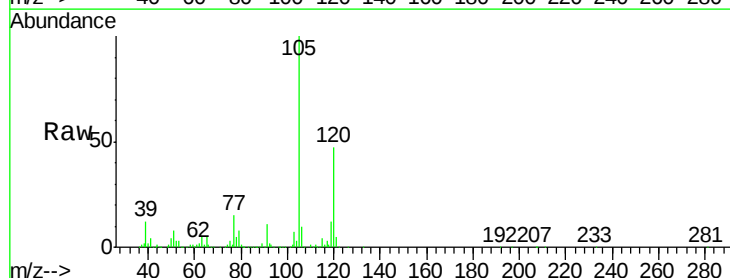
Acq: 5 Jul 2018 12:58

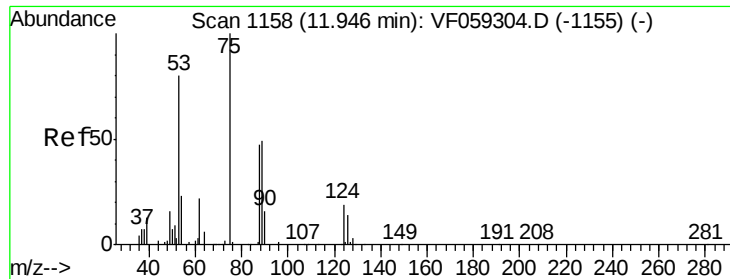
Tgt Ion:105 Resp: 308434

Ion Ratio Lower Upper

105 100

120 47.2 24.9 74.7





#81

trans-1,4-Dichloro-2-butene

Concen: 20.148 ug/l

RT: 11.93 min Scan# 1157

Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

ClientSampleId :

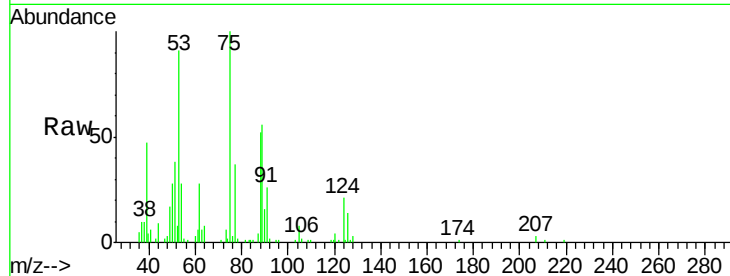
Tot Ion: 75 Resp: 34387

Ion Ratio Lower Upper

75 100

53 90.8 68.8 103.2

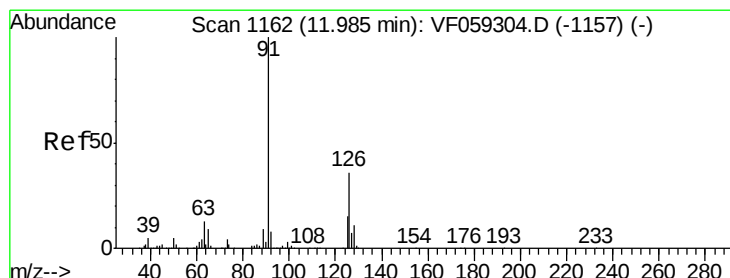
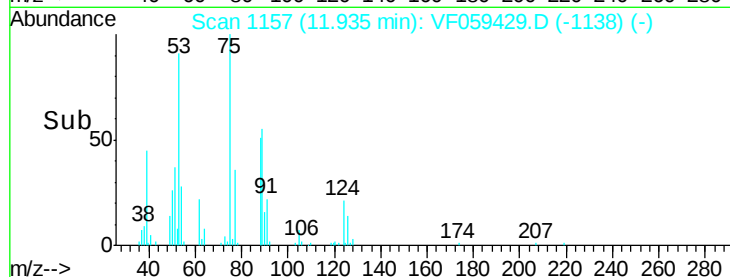
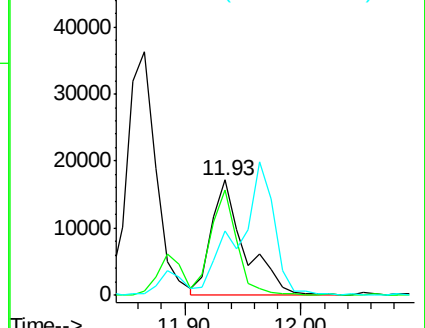
89 55.8 42.0 63.0



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: 21.835 ug/l

RT: 11.96 min Scan# 1160

Delta R.T. -0.02 min

Lab File: VF059429.D

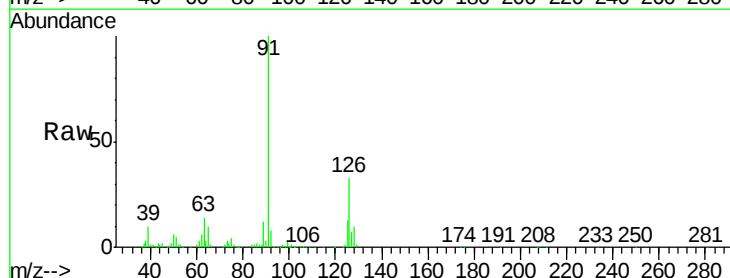
Acq: 5 Jul 2018 12:58

Tgt Ion: 91 Resp: 258305

Ion Ratio Lower Upper

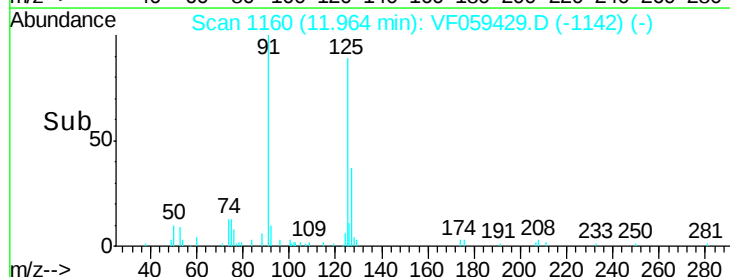
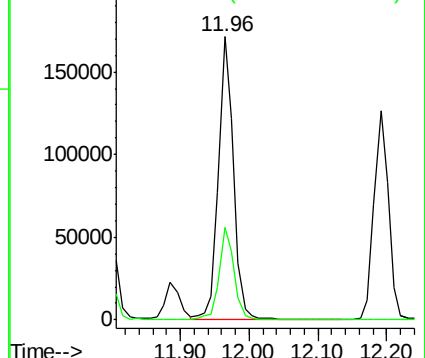
91 100

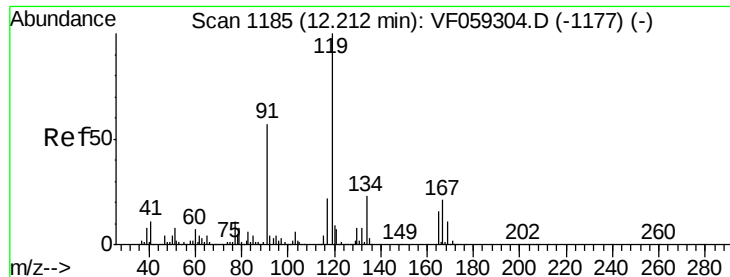
126 32.7 18.2 54.6



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V





#83

tert-Butylbenzene

Concen: 23.358 ug/l

RT: 12.19 min Scan# 1183

Delta R.T. -0.02 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

ClientSampleId :

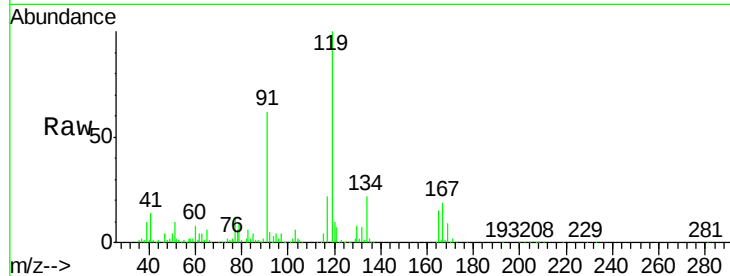
Tot Ion:119 Resp: 308040

Ion Ratio Lower Upper

119 100

91 61.8 28.4 85.2

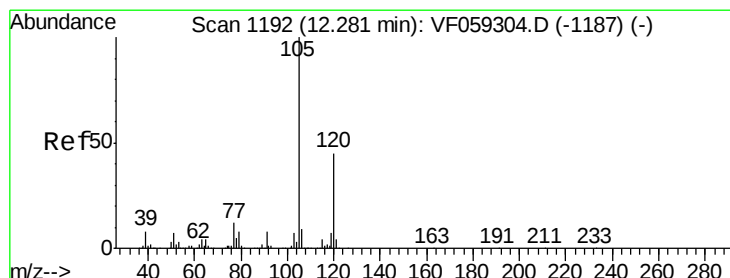
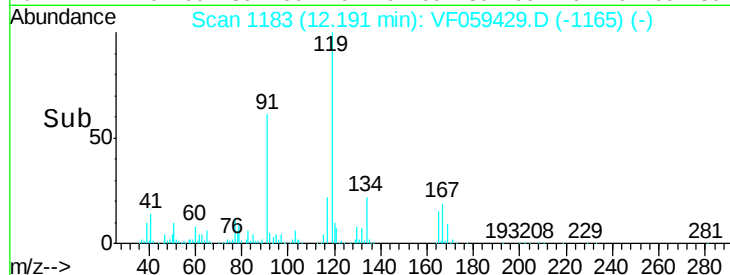
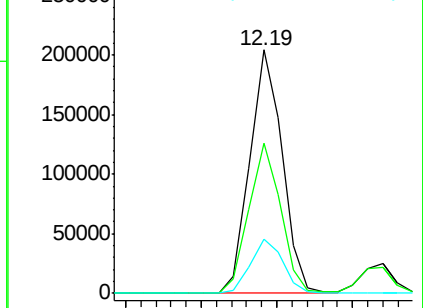
134 22.2 11.7 35.1



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 22.412 ug/l

RT: 12.27 min Scan# 1191

Delta R.T. -0.01 min

Lab File: VF059429.D

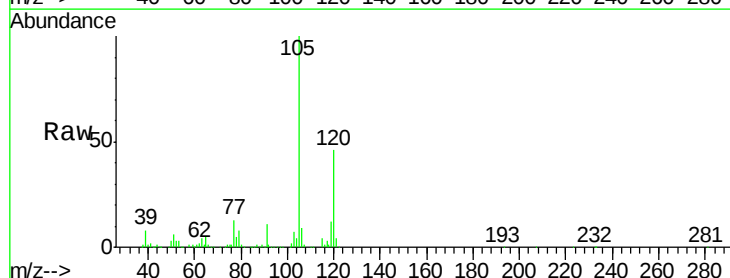
Acq: 5 Jul 2018 12:58

Tgt Ion:105 Resp: 311229

Ion Ratio Lower Upper

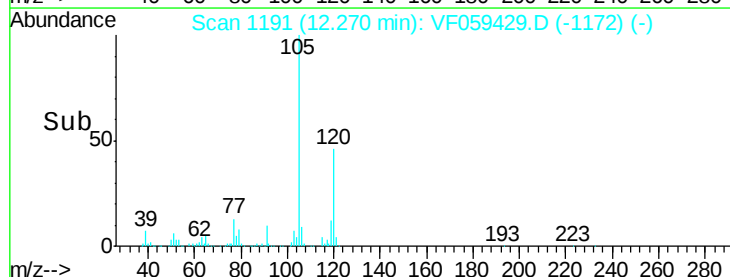
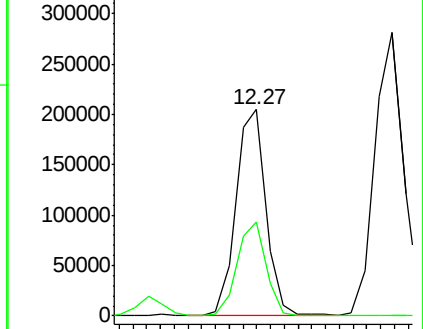
105 100

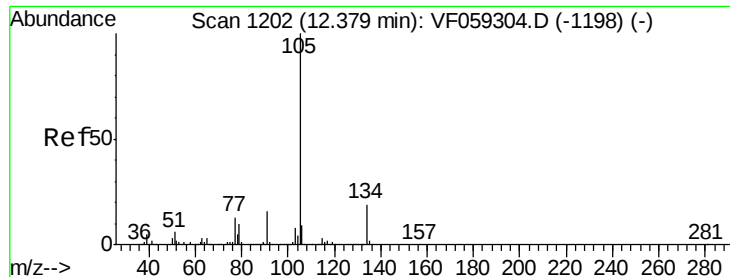
120 45.7 22.8 68.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

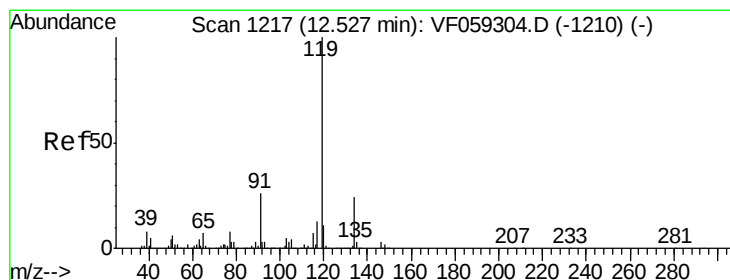
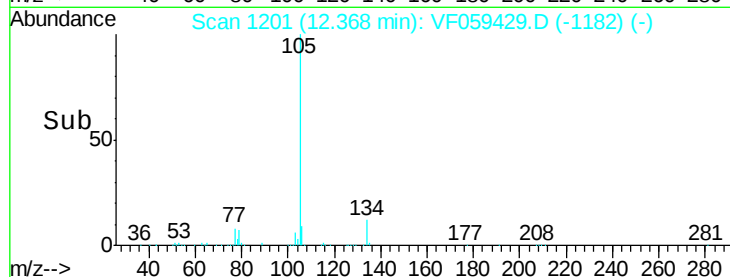
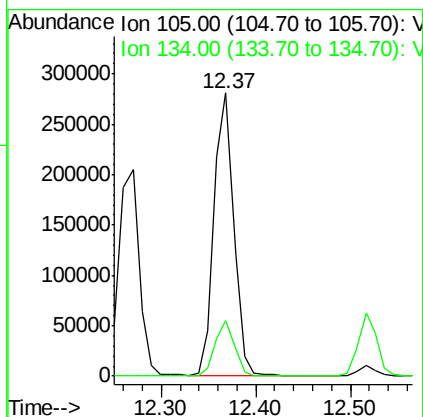
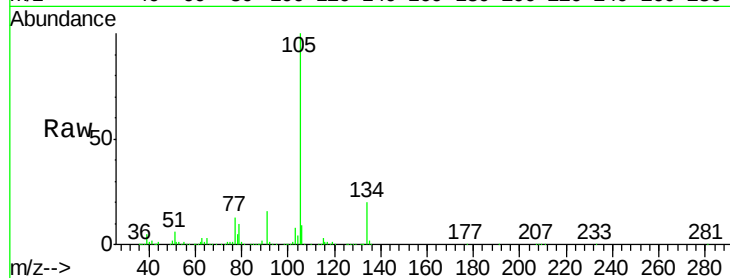




#85
 sec-Butylbenzene
 Concen: 23.419 ug/l
 RT: 12.37 min Scan# 1201
 Delta R.T. -0.01 min
 Lab File: VF059429.D
 Acq: 5 Jul 2018 12:58

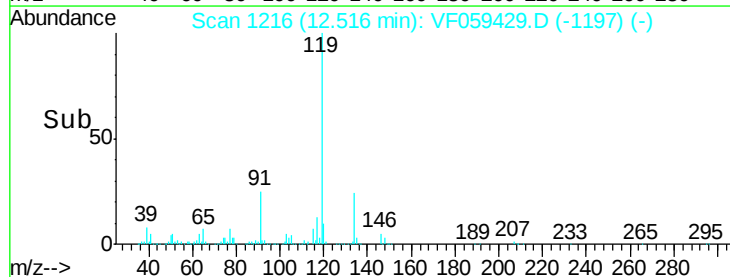
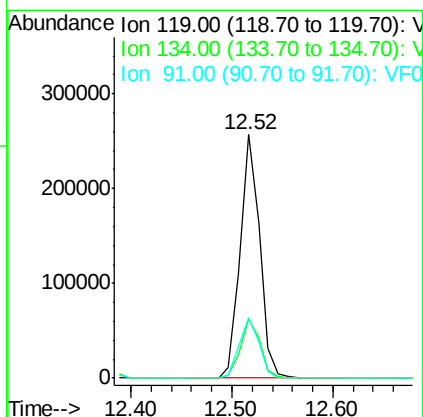
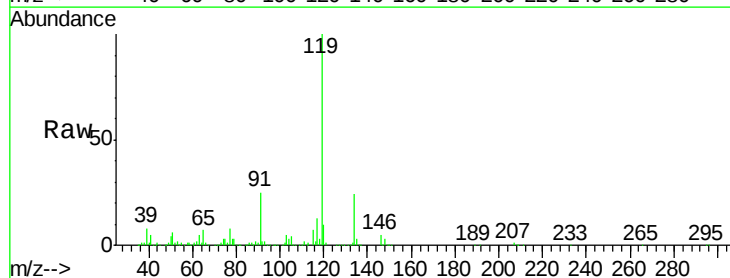
Instrument :
 MSVOA_F
 ClientSampleId :

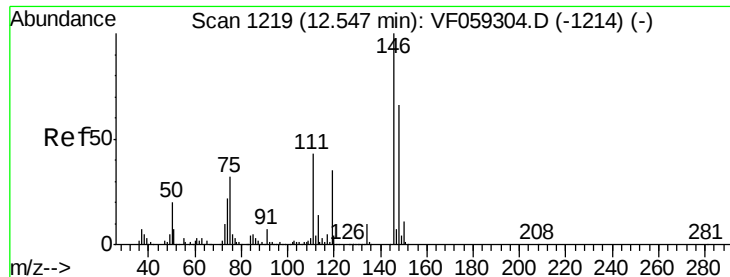
Tot Ion:105 Resp: 409382
 Ion Ratio Lower Upper
 105 100
 134 19.7 9.4 28.3



#86
 p-Isopropyltoluene
 Concen: 23.493 ug/l
 RT: 12.52 min Scan# 1216
 Delta R.T. -0.01 min
 Lab File: VF059429.D
 Acq: 5 Jul 2018 12:58

Tgt Ion:119 Resp: 344642
 Ion Ratio Lower Upper
 119 100
 134 24.3 12.2 36.4
 91 25.0 12.9 38.6





#87

1,3-Dichlorobenzene

Concen: 22.567 ug/l

RT: 12.54 min Scan# 1218

Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

ClientSampleId :

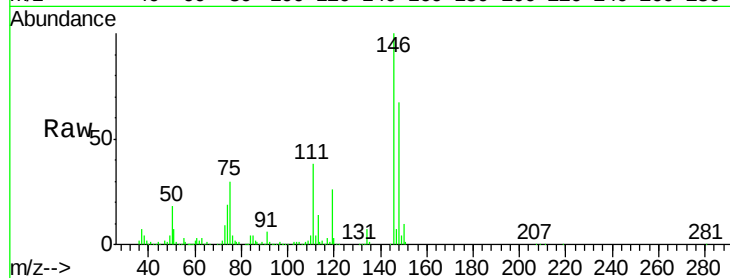
Tot Ion:146 Resp: 173001

Ion Ratio Lower Upper

146 100

111 37.6 21.4 64.2

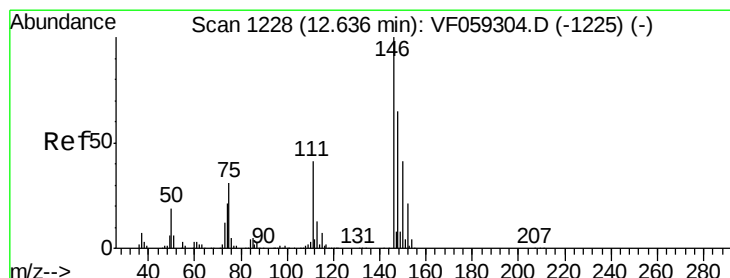
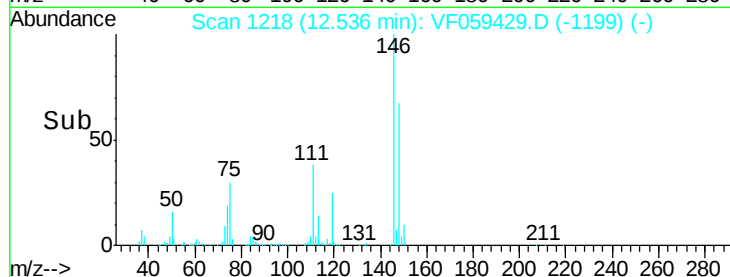
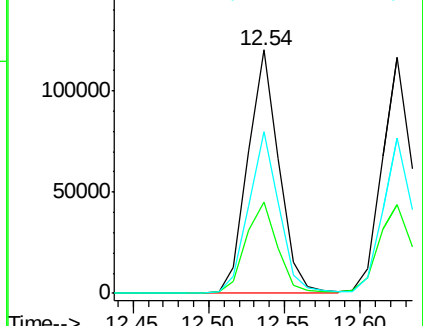
148 66.6 32.8 98.4



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: 22.244 ug/l

RT: 12.62 min Scan# 1227

Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

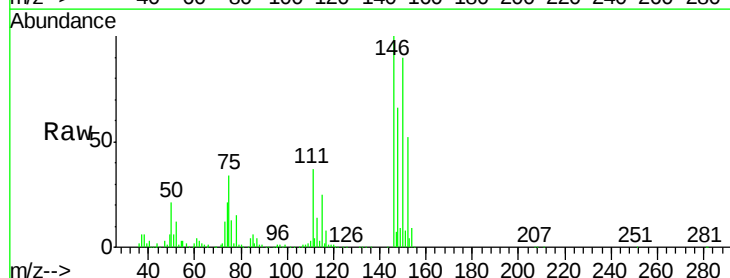
Tgt Ion:146 Resp: 165897

Ion Ratio Lower Upper

146 100

111 37.4 20.7 62.1

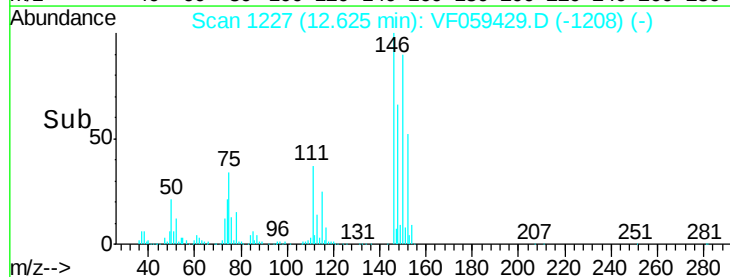
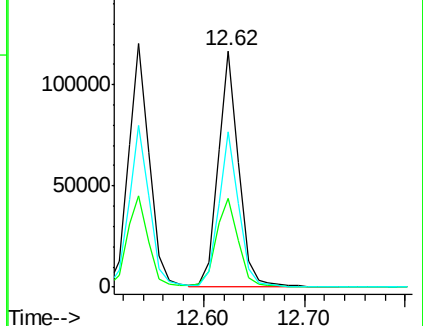
148 65.8 32.8 98.3

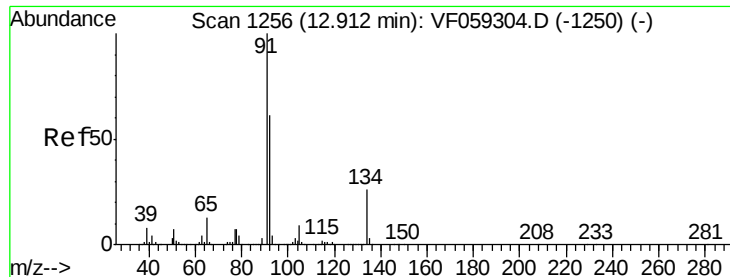


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#89

n-Butylbenzene

Concen: 24.078 ug/l

RT: 12.90 min Scan# 1255

Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

ClientSampleId :

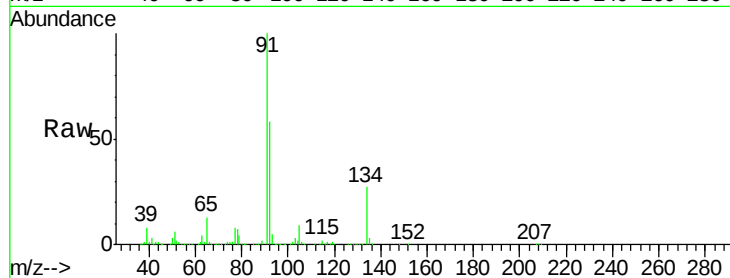
Tot Ion: 91 Resp: 358575

Ion Ratio Lower Upper

91 100

92 57.7 30.3 91.0

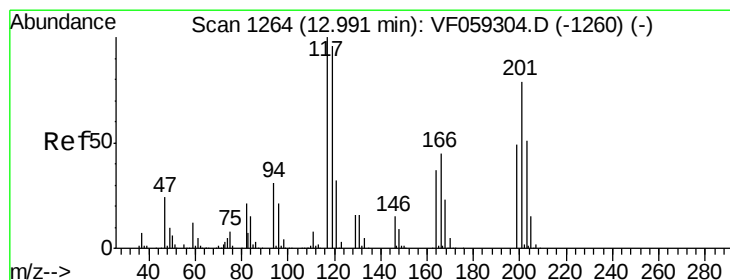
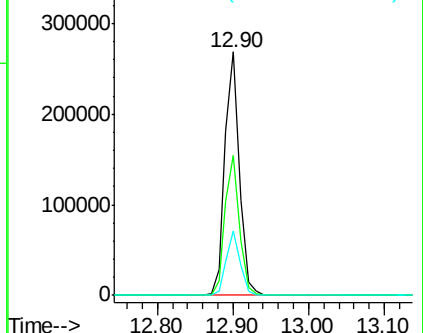
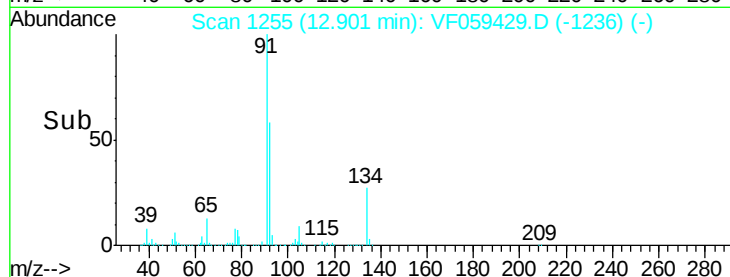
134 26.6 12.9 38.7



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 23.430 ug/l

RT: 12.97 min Scan# 1262

Delta R.T. -0.02 min

Lab File: VF059429.D

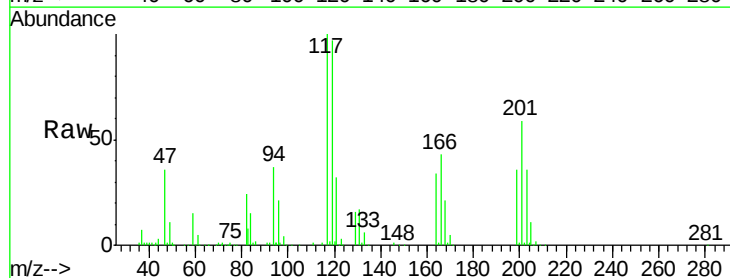
Acq: 5 Jul 2018 12:58

Tgt Ion: 117 Resp: 85666

Ion Ratio Lower Upper

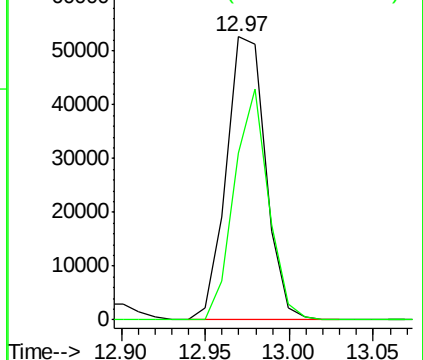
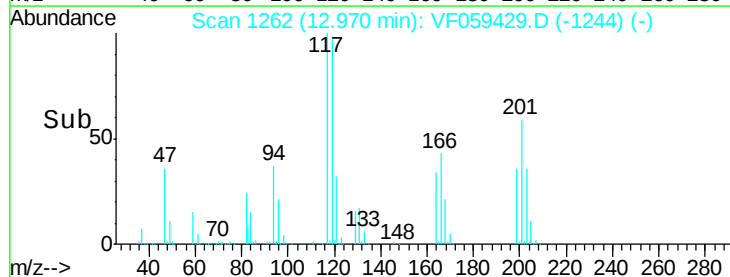
117 100

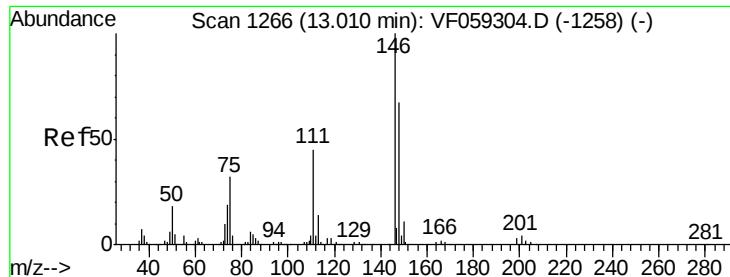
201 58.8 39.5 118.5



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

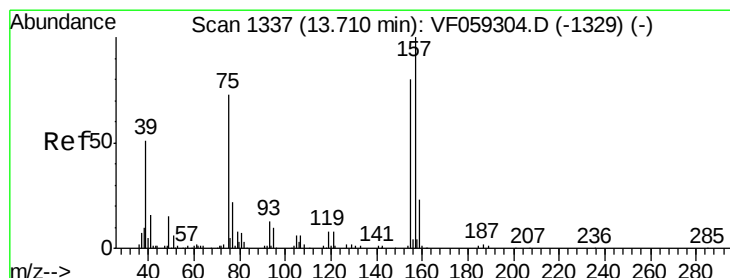
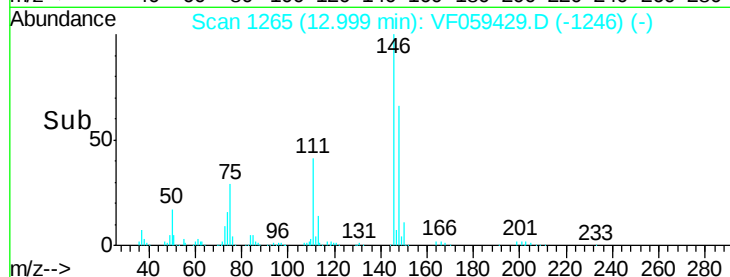
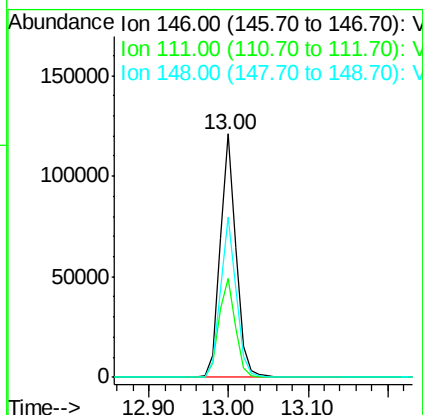
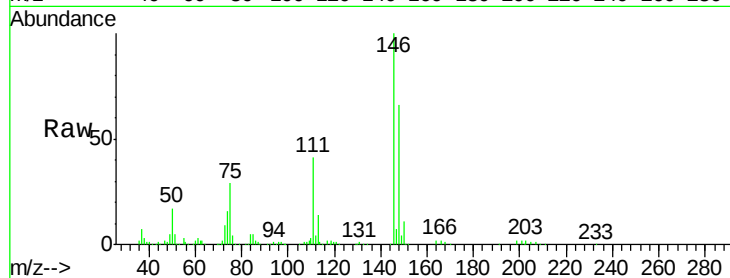




#91
 1,2-Dichlorobenzene
 Concen: 22.563 ug/l
 RT: 13.00 min Scan# 1265
 Delta R.T. -0.01 min
 Lab File: VF059429.D
 Acq: 5 Jul 2018 12:58

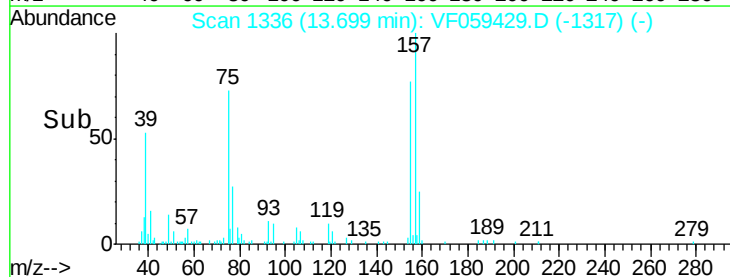
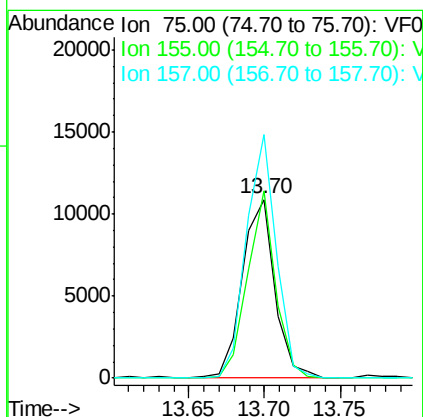
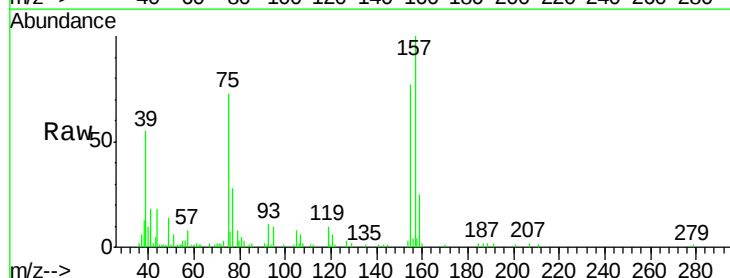
Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion:146 Resp: 171063
 Ion Ratio Lower Upper
 146 100
 111 40.5 22.7 68.0
 148 65.9 33.5 100.4



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.438 ug/l
 RT: 13.70 min Scan# 1336
 Delta R.T. -0.01 min
 Lab File: VF059429.D
 Acq: 5 Jul 2018 12:58

Tgt Ion: 75 Resp: 16381
 Ion Ratio Lower Upper
 75 100
 155 104.7 54.6 163.8
 157 136.1 68.7 205.9

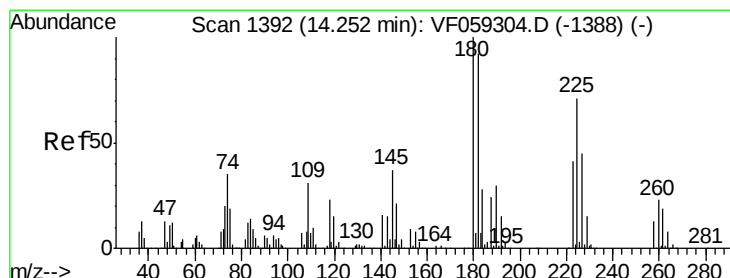
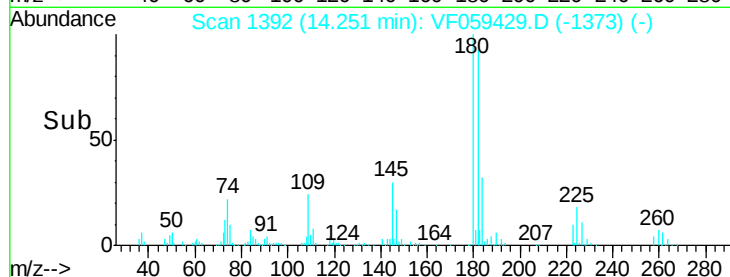
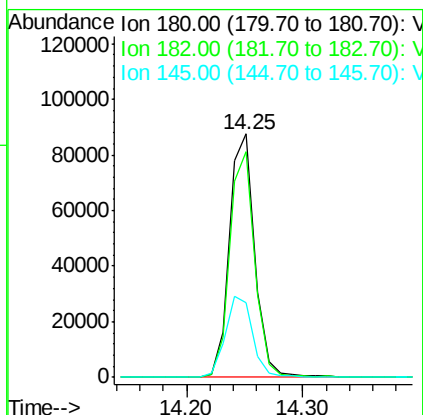
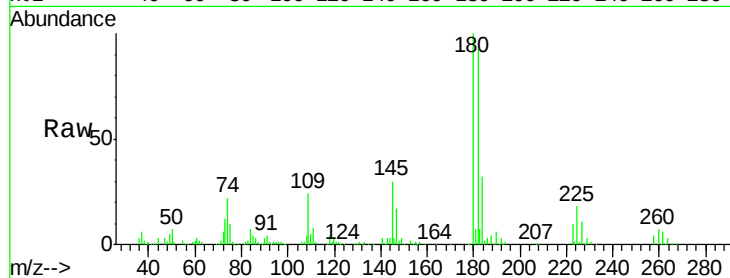




#93
 1,2,4-Trichlorobenzene
 Concen: 23.593 ug/l
 RT: 14.25 min Scan# 1392
 Delta R.T. -0.01 min
 Lab File: VF059429.D
 Acq: 5 Jul 2018 12:58

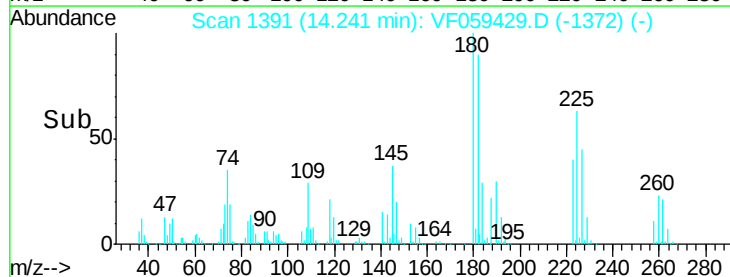
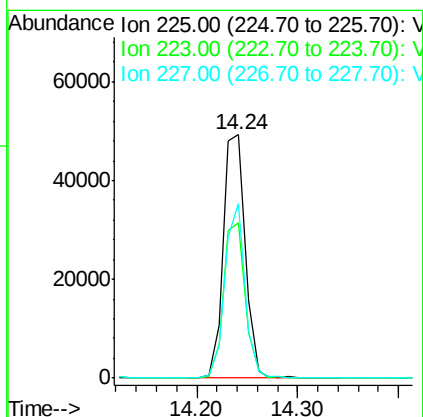
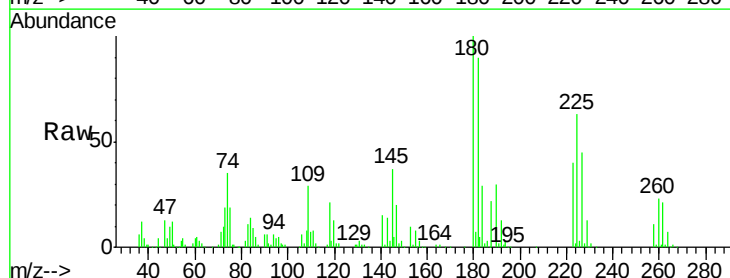
Instrument :
 MSVOA_F
 ClientSampleId :

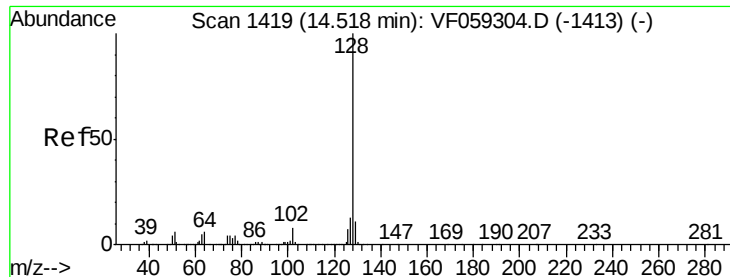
Tot Ion:180 Resp: 132260
 Ion Ratio Lower Upper
 180 100
 182 92.7 48.1 144.3
 145 30.5 15.3 45.8



#94
 Hexachlorobutadiene
 Concen: 23.990 ug/l
 RT: 14.24 min Scan# 1391
 Delta R.T. -0.01 min
 Lab File: VF059429.D
 Acq: 5 Jul 2018 12:58

Tgt Ion:225 Resp: 75118
 Ion Ratio Lower Upper
 225 100
 223 64.0 28.9 86.8
 227 71.5 31.3 93.8





#95

Naphthalene

Concen: 22.012 ug/l

RT: 14.51 min Scan# 1418

Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

Instrument :

MSVOA_F

ClientSampleId :

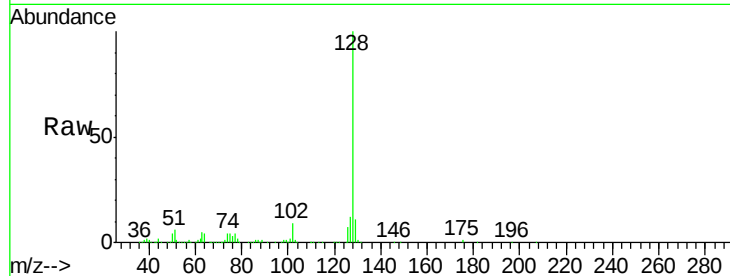
Tot Ion:128 Resp: 258182

Ion Ratio Lower Upper

128 100

127 12.5 10.1 15.1

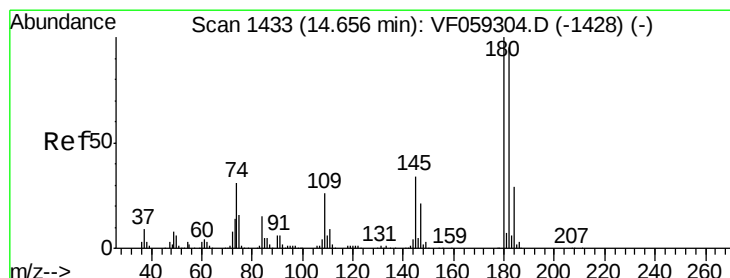
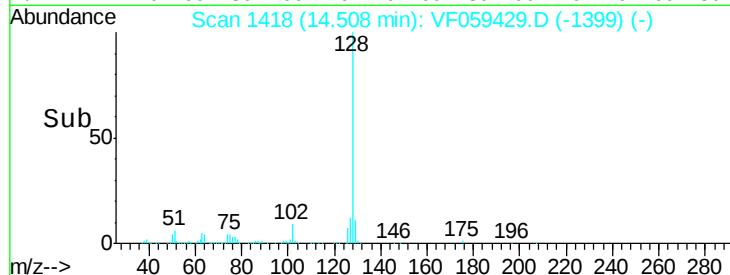
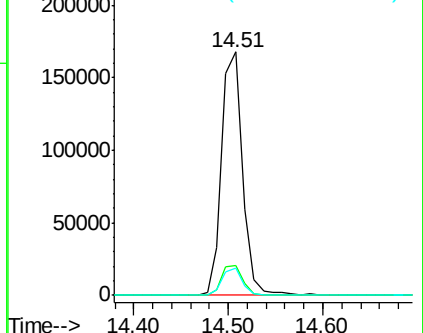
129 11.3 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 22.373 ug/l

RT: 14.65 min Scan# 1432

Delta R.T. -0.01 min

Lab File: VF059429.D

Acq: 5 Jul 2018 12:58

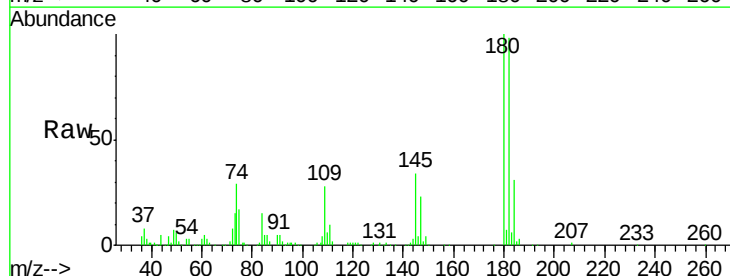
Tgt Ion:180 Resp: 118815

Ion Ratio Lower Upper

180 100

182 98.4 47.5 142.5

145 34.0 17.0 50.9



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

