

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF070718\
 Data File : VF059474.D
 Acq On : 7 Jul 2018 3:54
 Operator : VA/AP
 Sample : VSTDIC075
 Misc : 5.03g/5mL/MSVOA-F/SOIL
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Quant Time: Jul 07 05:46:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F070718S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 07 05:43:52 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.01	168	238692	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.74	114	350201	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.89	117	360885	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	226068	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.99	65	287790	87.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	174.00%	
35) Dibromofluoromethane	4.26	113	231627	85.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	171.54%	
50) Toluene-d8	7.68	98	575227	86.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	173.30%	
62) 4-Bromofluorobenzene	11.48	95	298898	79.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	159.32%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.97	85	233795	97.287	ug/l	98
3) Chloromethane	1.08	50	117915	78.179	ug/l	98
4) Vinyl Chloride	1.14	62	128616	86.491	ug/l	92
5) Bromomethane	1.33	94	96718	95.158	ug/l	95
6) Chloroethane	1.41	64	67871	90.000	ug/l	99
7) Trichlorofluoromethane	1.48	101	64915	21.235	ug/l	100
8) Diethyl Ether	1.68	74	55239	73.728	ug/l	85
9) 1,1,2-Trichlorotrifluoroet	1.88	101	135417	77.653	ug/l	98
10) Methyl Iodide	1.94	142	263586	83.490	ug/l	99
11) Tert butyl alcohol	2.67	59	58965	287.111	ug/l #	94
12) 1,1-Dichloroethene	1.84	96	121501	82.023	ug/l	84
13) Acrolein	2.07	56	46801	383.751	ug/l	95
14) Allyl chloride	2.17	41	222054	82.277	ug/l	84
15) Acrylonitrile	3.04	53	115016	320.454	ug/l	97
16) Acetone	2.31	43	197431	242.659	ug/l	100
17) Carbon Disulfide	1.86	76	335563	95.042	ug/l	98
18) Methyl Acetate	2.43	43	89600	55.657	ug/l	96
19) Methyl tert-butyl Ether	2.51	73	393641	73.168	ug/l	97
20) Methylene Chloride	2.26	84	60393	25.806	ug/l	93
21) trans-1,2-Dichloroethene	2.39	96	126272	80.306	ug/l	97
22) Diisopropyl ether	2.91	45	442843	74.841	ug/l	95
23) Vinyl Acetate	3.30	43	1337194	357.764	ug/l	99
24) 1,1-Dichloroethane	2.98	63	286880	76.562	ug/l	100
25) 2-Butanone	4.47	43	293557	299.411	ug/l	99
26) 2,2-Dichloropropane	3.72	77	172767	68.849	ug/l	98
27) cis-1,2-Dichloroethene	3.61	96	163716	71.013	ug/l	91
28) Bromochloromethane	3.85	49	118573	73.009	ug/l	99
29) Tetrahydrofuran	4.22	42	133469	308.673	ug/l	98
30) Chloroform	4.00	83	407760	75.203	ug/l	96
31) Cyclohexane	3.82	56	171861	70.955	ug/l	97
32) 1,1,1-Trichloroethane	4.24	97	324957	81.393	ug/l	94
36) 1,1-Dichloropropene	4.42	75	253478	79.293	ug/l	100
37) Ethyl Acetate	4.26	43	144444	66.759	ug/l	88
38) Carbon Tetrachloride	4.14	117	379606	92.265	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.59	83	211982	74.752	ug/l	93
40) Benzene	4.77	78	489858	71.220	ug/l	95
41) Methacrylonitrile	4.89	41	69834	66.808	ug/l	94
42) 1,2-Dichloroethane	5.08	62	350450	83.691	ug/l	99
43) Isopropyl Acetate	7.08	43	179713	70.804	ug/l	100
44) Trichloroethene	5.64	130	176750	73.294	ug/l	98
45) 1,2-Dichloropropane	6.37	63	139154	71.053	ug/l	97
46) Dibromomethane	6.22	93	133657	77.461	ug/l	95
47) Bromodichloromethane	6.51	83	343320	81.717	ug/l	94
48) Methyl methacrylate	6.84	41	129095	74.687	ug/l	94
49) 1,4-Dioxane	6.97	88	743	71.327	ug/l	92
51) 4-Methyl-2-Pentanone	8.38	43	615563	325.280	ug/l	100
52) Toluene	7.75	92	369209	71.252	ug/l	96
53) t-1,3-Dichloropropene	8.40	75	284011	74.670	ug/l	97
54) cis-1,3-Dichloropropene	7.42	75	299060	73.425	ug/l	97
55) 1,1,2-Trichloroethane	8.60	97	148495	74.256	ug/l	94
56) Ethyl methacrylate	8.73	69	172190	70.738	ug/l	98
57) 1,3-Dichloropropane	8.97	76	259080	75.496	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.75	63	77659	404.393	ug/l	100
59) 2-Hexanone	9.60	43	473588	303.470	ug/l	97
60) Dibromochloromethane	8.83	129	253903	81.426	ug/l	97
61) 1,2-Dibromoethane	9.11	107	184626	75.902	ug/l	97
64) Tetrachloroethene	8.27	164	215160	86.891	ug/l	97
65) Chlorobenzene	9.90	112	498281	72.908	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.04	131	225895	75.860	ug/l	97
67) Ethyl Benzene	10.00	91	854089	73.360	ug/l	99
68) m/p-Xylenes	10.24	106	577079	140.307	ug/l	98
69) o-Xylene	10.80	106	337421	73.521	ug/l	91
70) Styrene	10.87	104	508112	72.567	ug/l	98
71) Bromoform	10.86	173	158460	77.998	ug/l	94
73) Isopropylbenzene	11.21	105	953920	70.889	ug/l	99
74) N-amyl acetate	11.44	43	315291	66.334	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.77	83	215077	64.884	ug/l	98
76) 1,2,3-Trichloropropane	11.87	75	173077	68.066	ug/l	90
77) Bromobenzene	11.57	156	256553	69.283	ug/l	97
78) n-propylbenzene	11.67	91	1123348	69.551	ug/l	97
79) 2-Chlorotoluene	11.79	91	703493	71.019	ug/l	97
80) 1,3,5-Trimethylbenzene	11.89	105	841270	70.899	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.94	75	97876	66.379	ug/l	97
82) 4-Chlorotoluene	11.96	91	747411	71.172	ug/l	98
83) tert-Butylbenzene	12.19	119	831243	70.837	ug/l	98
84) 1,2,4-Trimethylbenzene	12.27	105	865682	69.878	ug/l	99
85) sec-Butylbenzene	12.37	105	1129641	72.164	ug/l	99
86) p-Isopropyltoluene	12.52	119	966307	73.362	ug/l	98
87) 1,3-Dichlorobenzene	12.54	146	478440	69.456	ug/l	98
88) 1,4-Dichlorobenzene	12.63	146	482652	72.130	ug/l	99
89) n-Butylbenzene	12.90	91	942759	70.494	ug/l	99
90) Hexachloroethane	12.97	117	246097	74.747	ug/l	78
91) 1,2-Dichlorobenzene	13.00	146	493253	73.146	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.70	75	58548	77.906	ug/l	97

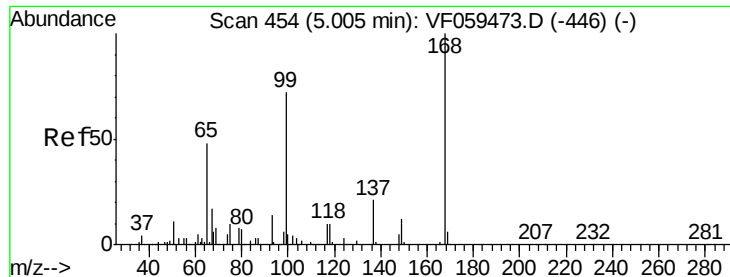
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QLast Update : Sat Jul 07 05:43:52 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.25	180	382420	76.355	ug/l	98
94) Hexachlorobutadiene	14.24	225	236137	82.214	ug/l	97
95) Naphthalene	14.51	128	807261	76.960	ug/l	99
96) 1,2,3-Trichlorobenzene	14.65	180	357700	75.012	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.01 min Scan# 454

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

Instrument :

MSVOA_F

ClientSampleId :

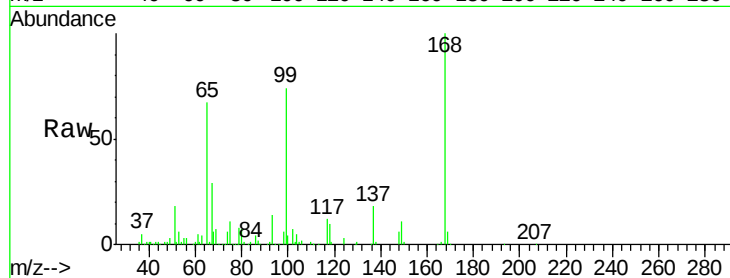
VSTDIC075

Tgt Ion:168 Resp: 238692

Ion Ratio Lower Upper

168 100

99 74.4 57.7 86.5



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.01

80000

60000

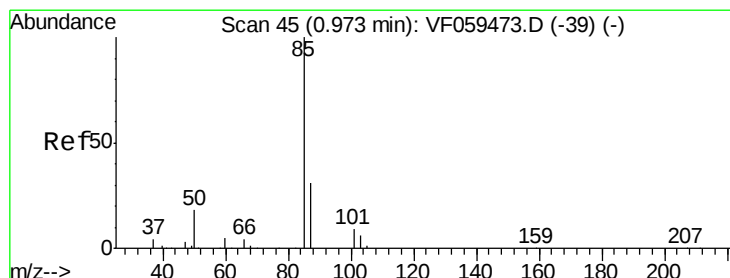
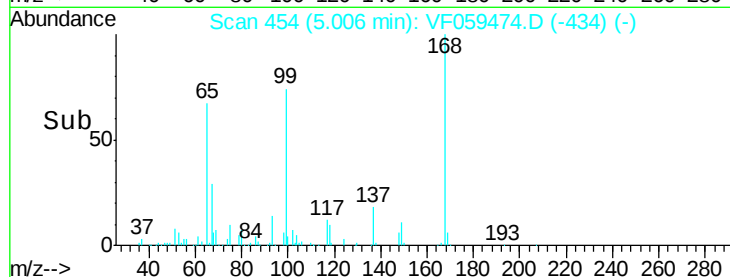
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: 97.287 ug/l

RT: 0.97 min Scan# 45

Delta R.T. 0.00 min

Lab File: VF059474.D

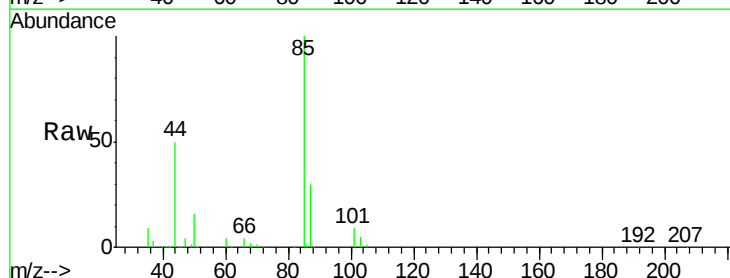
Acq: 7 Jul 2018 3:54

Tgt Ion: 85 Resp: 233795

Ion Ratio Lower Upper

85 100

87 30.0 15.7 47.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.97

80000

60000

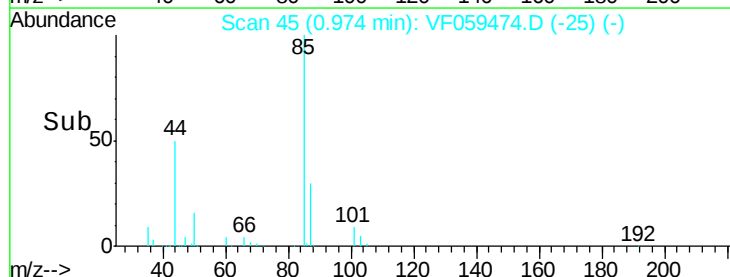
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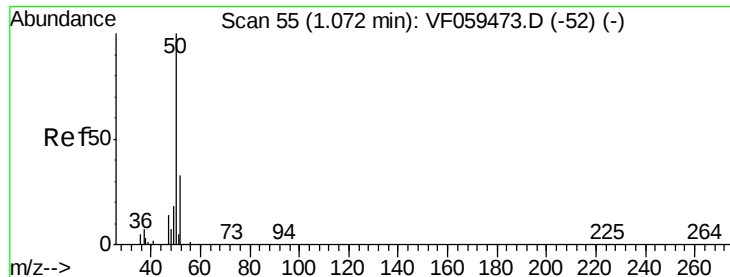
20000

0

Time-->

0.80 0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 78.179 ug/l

RT: 1.08 min Scan# 56

Delta R.T. 0.01 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

Instrument :

MSVOA_F

ClientSampleId :

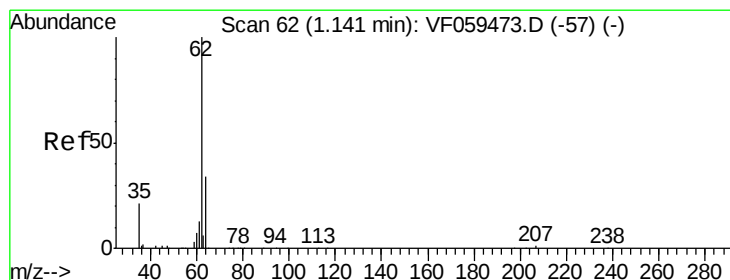
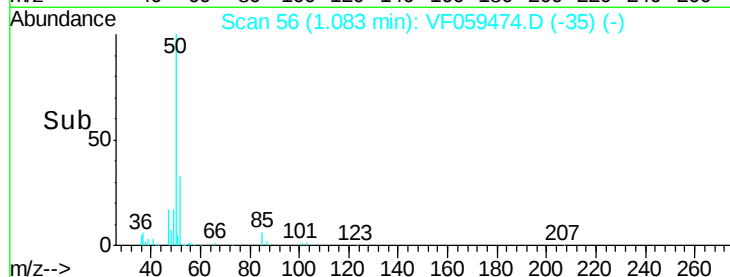
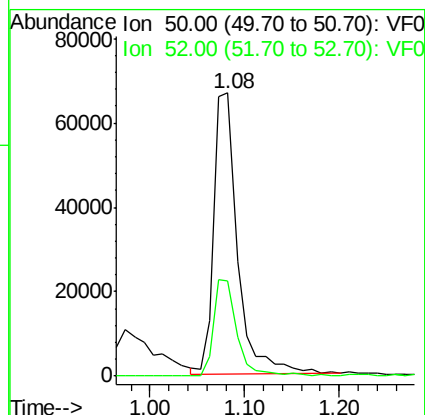
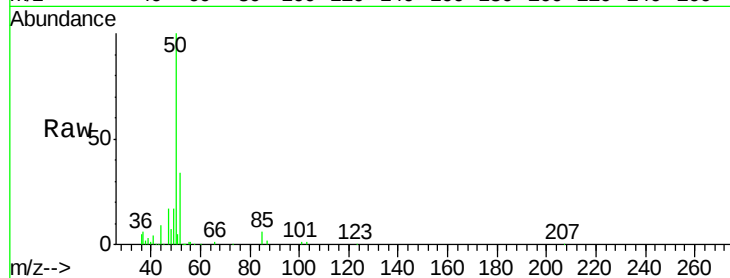
VSTDIC075

Tgt Ion: 50 Resp: 117915

Ion Ratio Lower Upper

50 100

52 33.6 25.9 38.9



#4

Vinyl Chloride

Concen: 86.491 ug/l

RT: 1.14 min Scan# 62

Delta R.T. 0.00 min

Lab File: VF059474.D

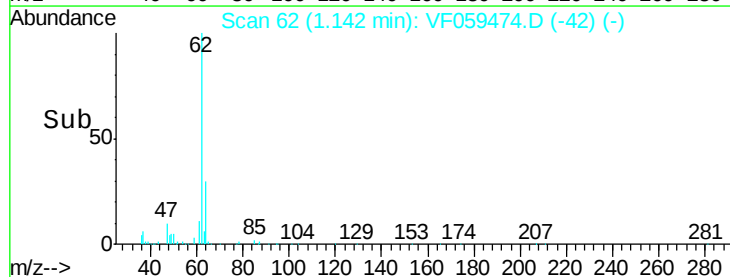
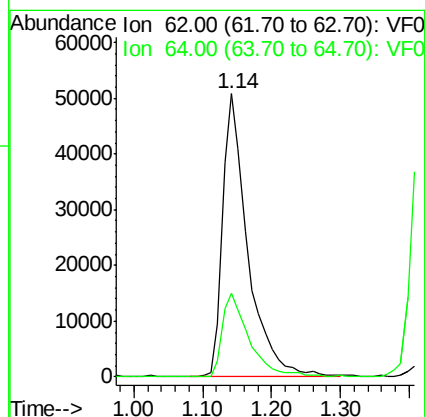
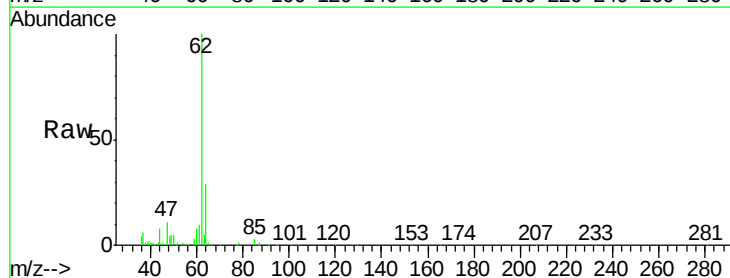
Acq: 7 Jul 2018 3:54

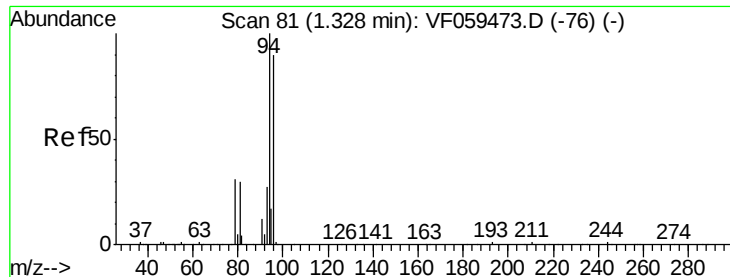
Tgt Ion: 62 Resp: 128616

Ion Ratio Lower Upper

62 100

64 29.4 27.3 40.9





#5

Bromomethane

Concen: 95.158 ug/l

RT: 1.33 min Scan# 81

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

Instrument :

MSVOA_F

ClientSampleId :

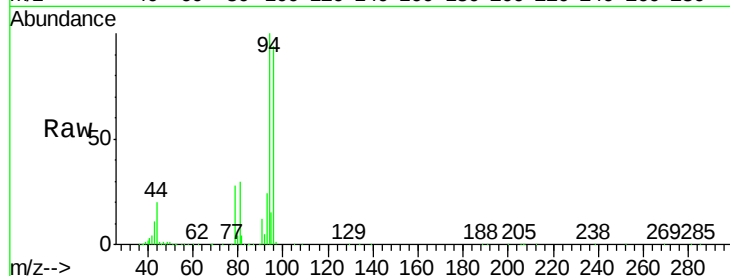
VSTDIC075

Tgt Ion: 94 Resp: 96718

Ion Ratio Lower Upper

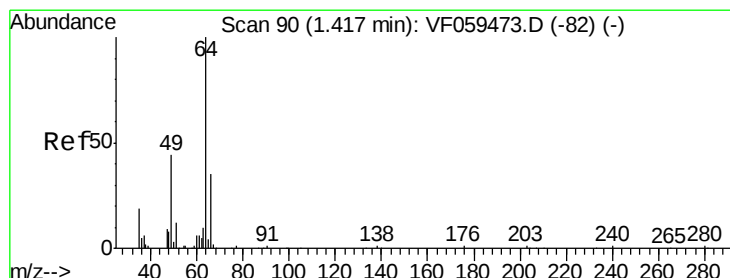
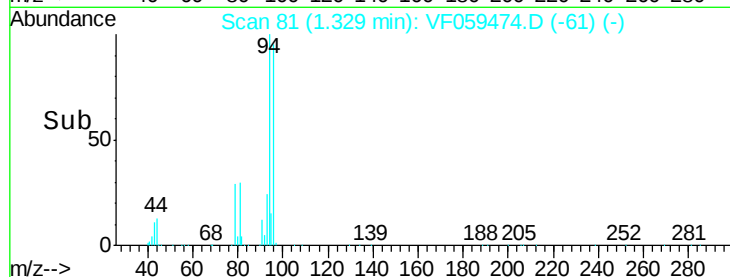
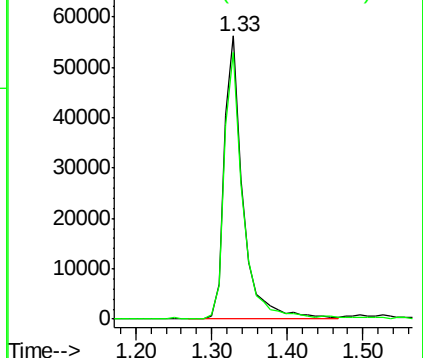
94 100

96 94.3 72.0 108.0



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 90.000 ug/l

RT: 1.41 min Scan# 89

Delta R.T. -0.01 min

Lab File: VF059474.D

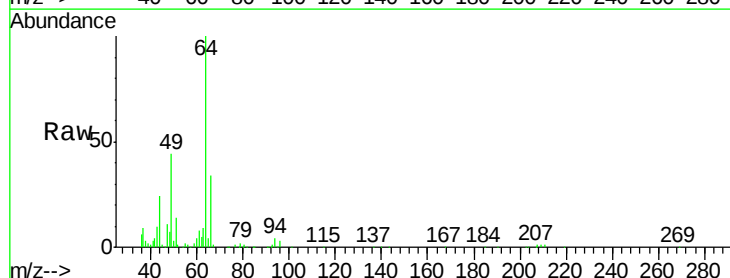
Acq: 7 Jul 2018 3:54

Tgt Ion: 64 Resp: 67871

Ion Ratio Lower Upper

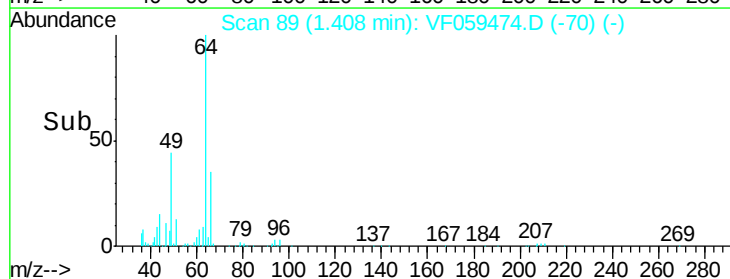
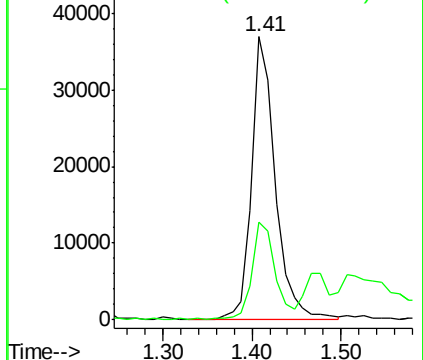
64 100

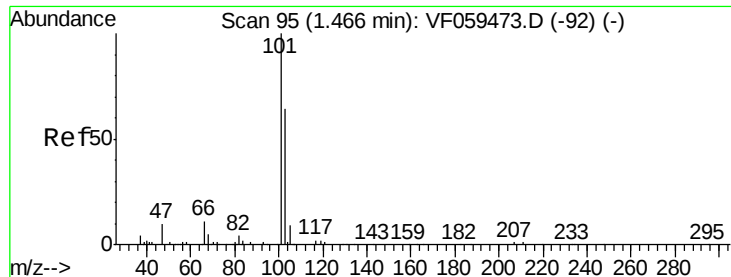
66 34.5 28.1 42.1



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

Trichlorofluoromethane

Concen: 21.235 ug/l

RT: 1.48 min Scan# 96

Delta R.T. 0.01 min

Lab File: VF059474.D

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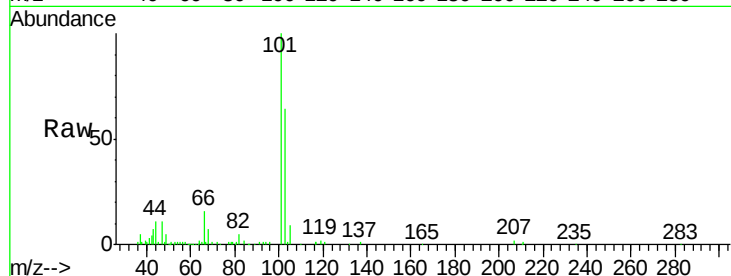
VSTDIC075

Tgt Ion:101 Resp: 64915

Ion Ratio Lower Upper

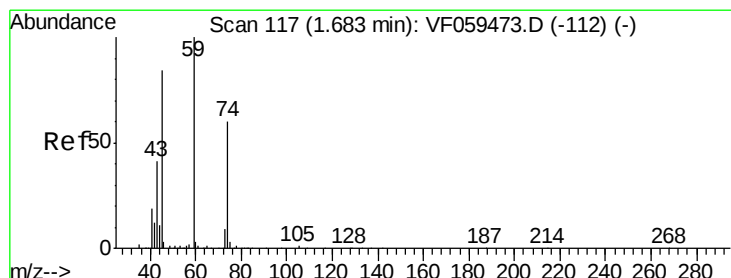
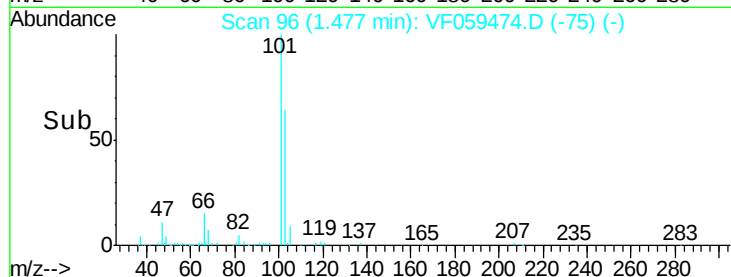
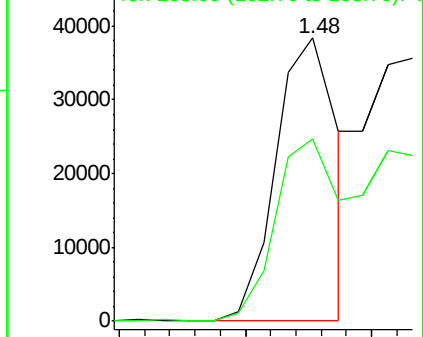
101 100

103 64.2 51.2 76.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 73.728 ug/l

RT: 1.68 min Scan# 117

Delta R.T. 0.00 min

Lab File: VF059474.D

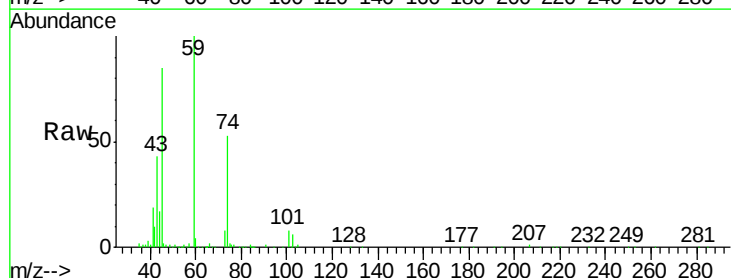
Acq: 7 Jul 2018 3:54

Tgt Ion: 74 Resp: 55239

Ion Ratio Lower Upper

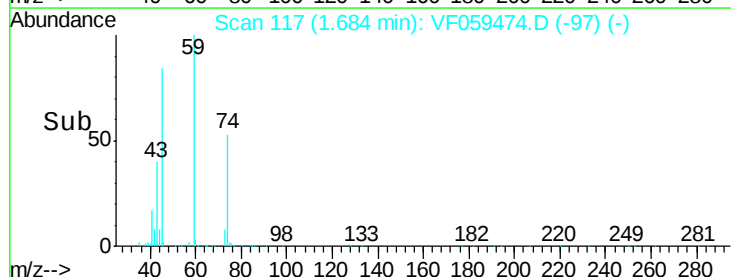
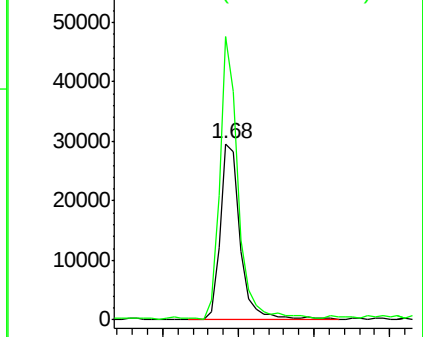
74 100

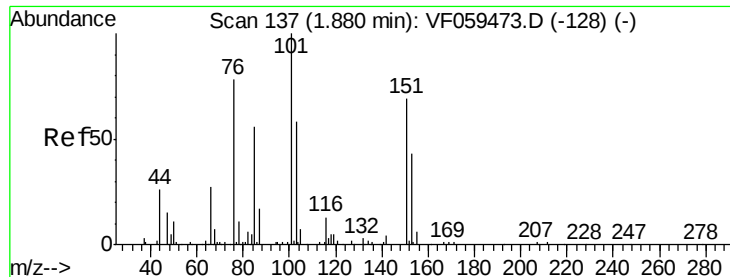
45 160.6 71.1 213.3



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: 77.653 ug/l

RT: 1.88 min Scan# 137

Delta R.T. 0.00 min

Lab File: VF059474.D

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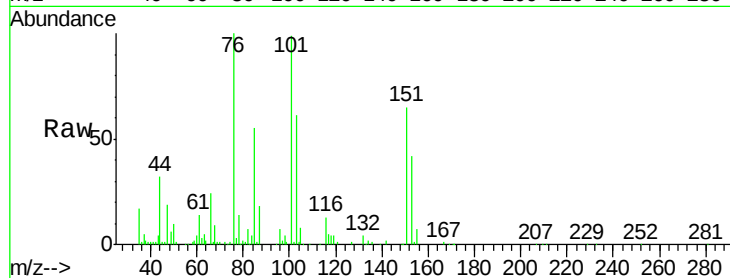
Tgt Ion:101 Resp: 135417

Ion Ratio Lower Upper

101 100

85 55.4 43.8 65.8

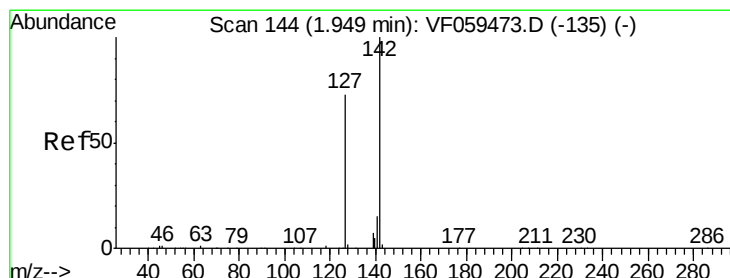
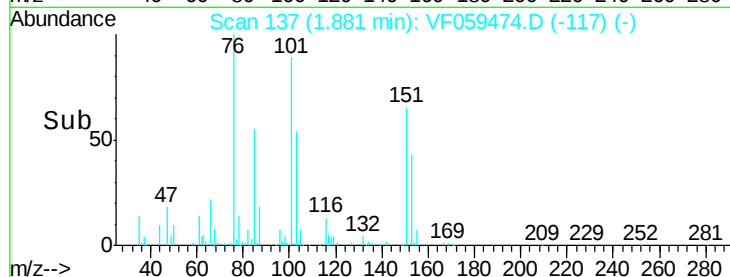
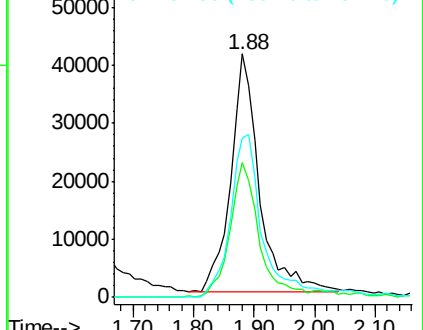
151 65.6 54.2 81.4



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: 83.490 ug/l

RT: 1.94 min Scan# 143

Delta R.T. -0.01 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

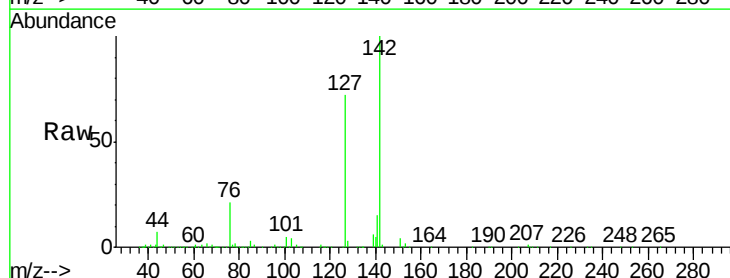
Tgt Ion:142 Resp: 263586

Ion Ratio Lower Upper

142 100

127 71.8 58.2 87.2

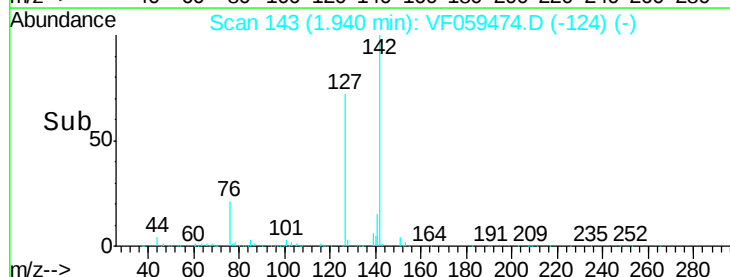
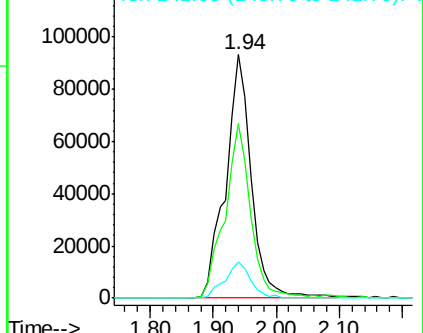
141 15.0 11.7 17.5

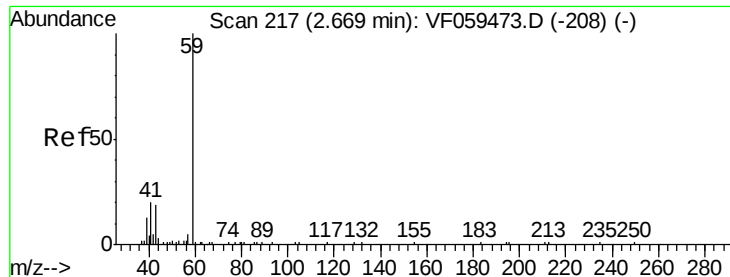


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



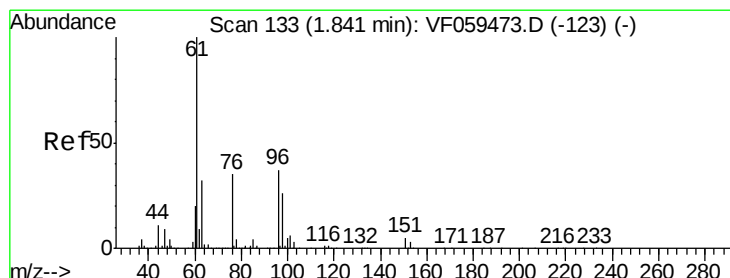
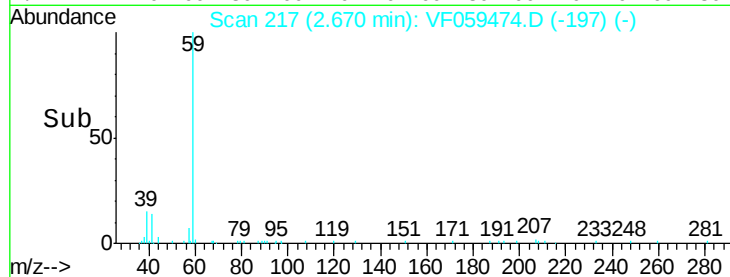
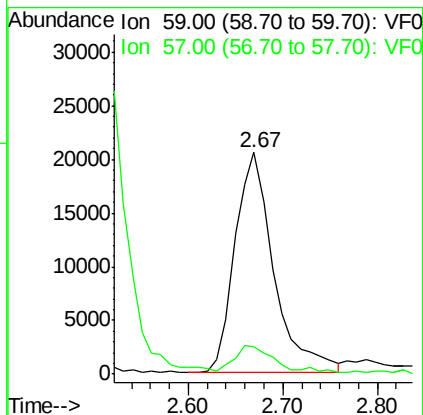
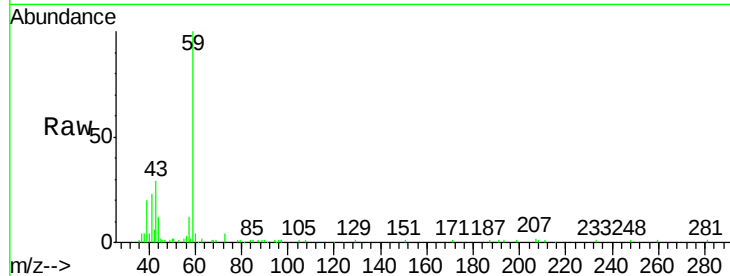


#11

Tert butyl alcohol
 Concen: 287.111 ug/l
 RT: 2.67 min Scan# 217
 Delta R.T. 0.00 min
 Lab File: VF059474.D
 Acq: 7 Jul 2018 3:54

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

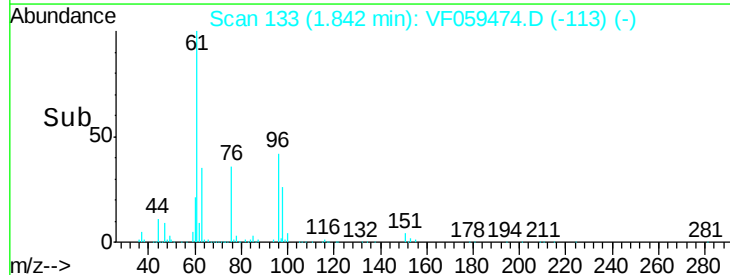
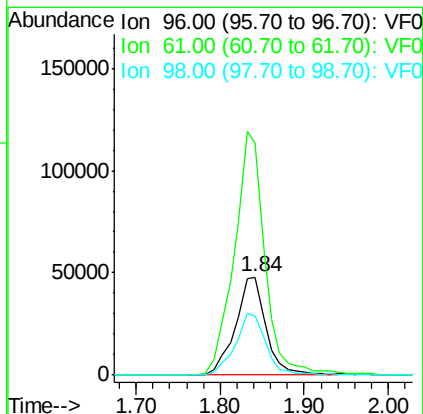
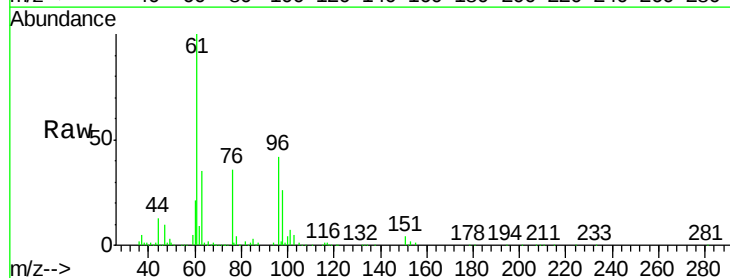
Tgt Ion: 59 Resp: 58965
 Ion Ratio Lower Upper
 59 100
 57 12.2 7.8 11.8#

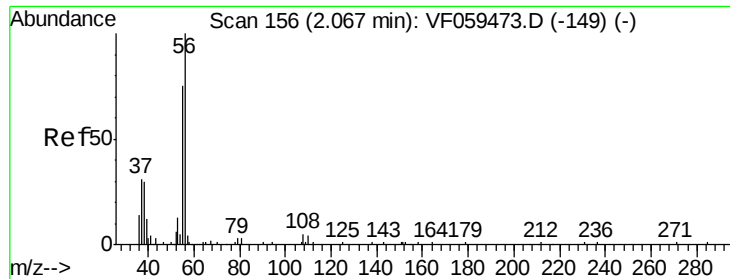


#12

1,1-Dichloroethene
 Concen: 82.023 ug/l
 RT: 1.84 min Scan# 133
 Delta R.T. 0.00 min
 Lab File: VF059474.D
 Acq: 7 Jul 2018 3:54

Tgt Ion: 96 Resp: 121501
 Ion Ratio Lower Upper
 96 100
 61 236.5 214.4 321.6
 98 62.2 55.6 83.4





#13

Acrolein

Concen: 383.751 ug/l

RT: 2.07 min Scan# 156

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

Instrument :

MSVOA_F

ClientSampleId :

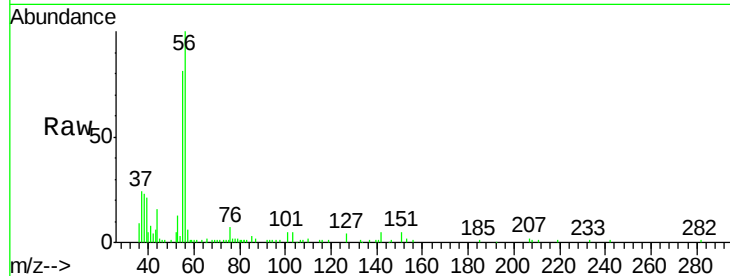
VSTDIC075

Tgt Ion: 56 Resp: 46801

Ion Ratio Lower Upper

56 100

55 81.1 61.2 91.8



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

2.07

20000

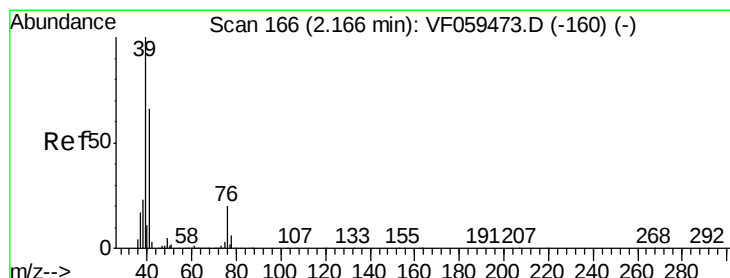
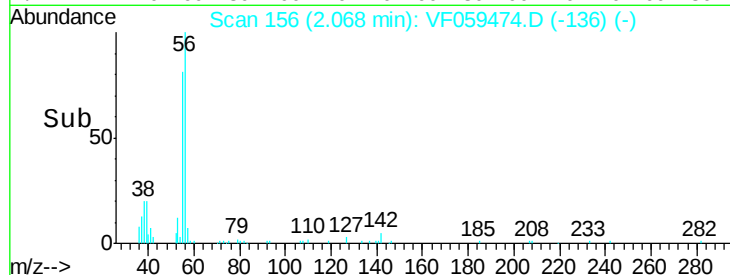
15000

10000

5000

0

Time--> 1.90 2.00 2.10 2.20



#14

Allyl chloride

Concen: 82.277 ug/l

RT: 2.17 min Scan# 166

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

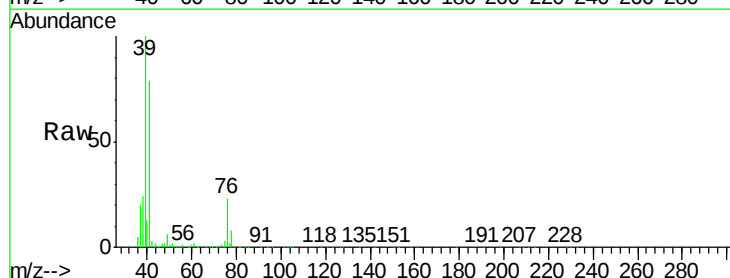
Tgt Ion: 41 Resp: 222054

Ion Ratio Lower Upper

41 100

39 126.7 120.7 181.1

76 28.9 24.0 36.0



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

2.17

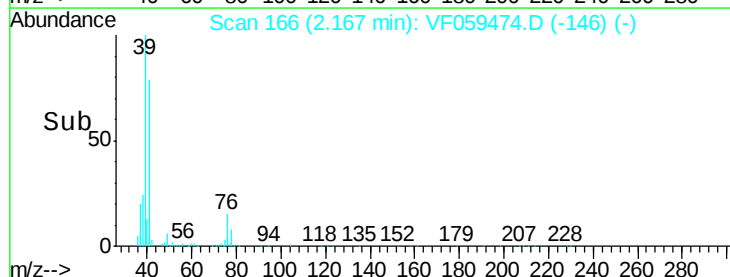
150000

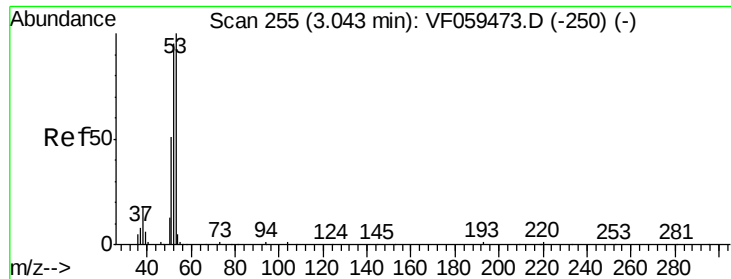
100000

50000

0

Time--> 2.10 2.20 2.30





#15

Acrylonitrile

Concen: 320.454 ug/l

RT: 3.04 min Scan# 255

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

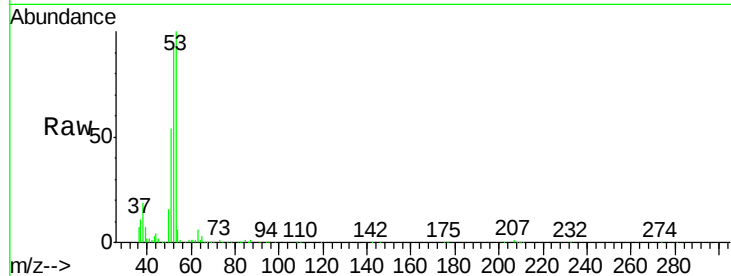
Tgt Ion: 53 Resp: 115016

Ion Ratio Lower Upper

53 100

52 93.0 76.8 115.2

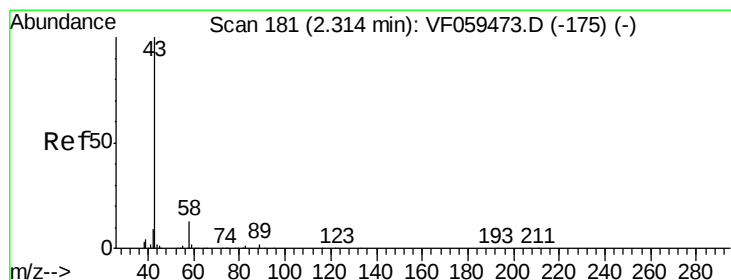
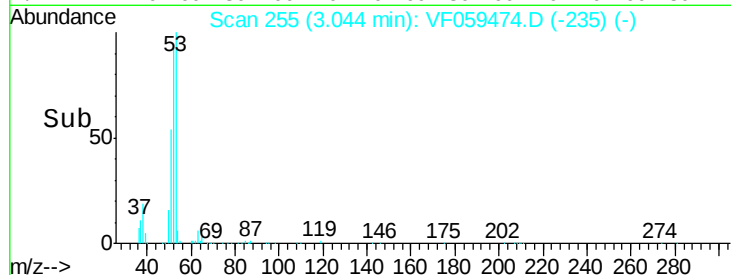
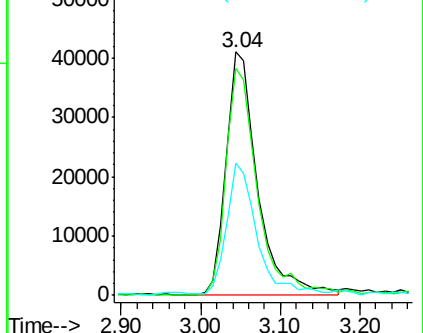
51 54.1 41.8 62.8



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: 242.659 ug/l

RT: 2.31 min Scan# 181

Delta R.T. 0.00 min

Lab File: VF059474.D

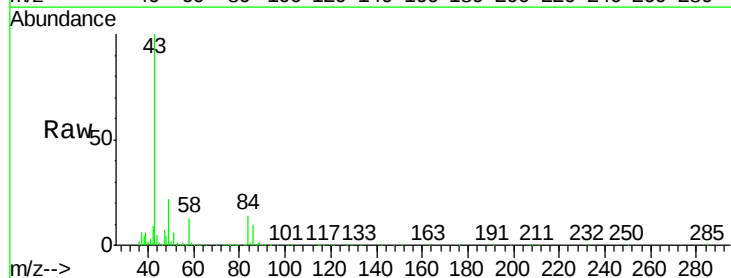
Acq: 7 Jul 2018 3:54

Tgt Ion: 43 Resp: 197431

Ion Ratio Lower Upper

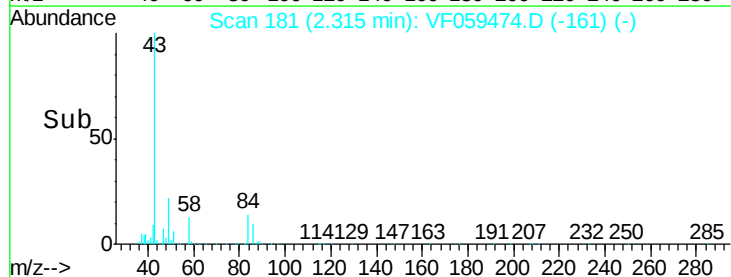
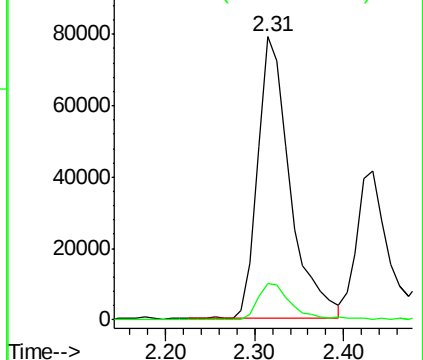
43 100

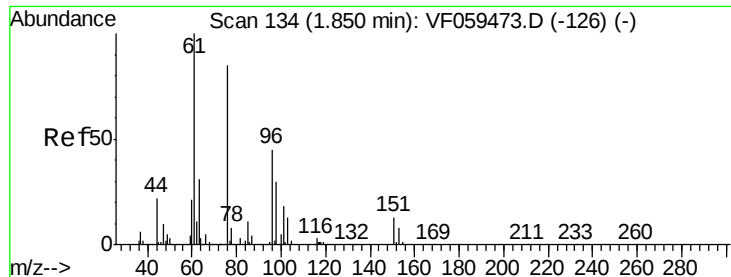
58 12.9 10.5 15.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

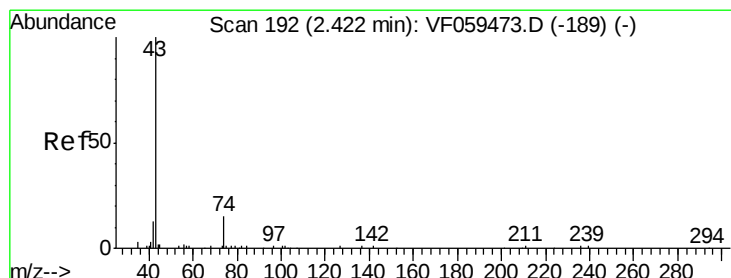
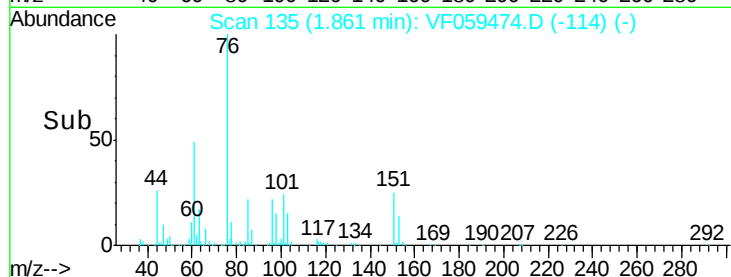
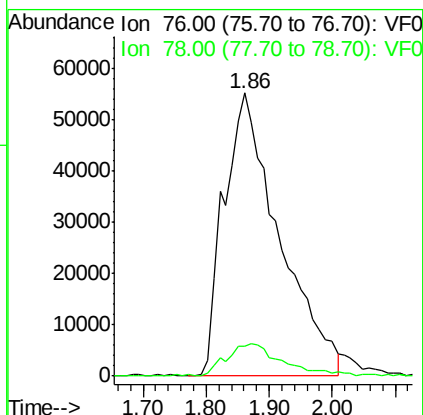
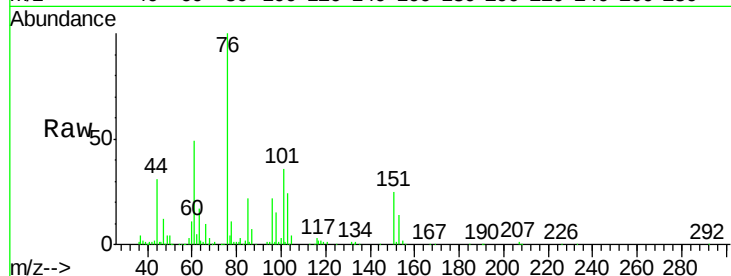




#17
Carbon Disulfide
Concen: 95.042 ug/l
RT: 1.86 min Scan# 135
Delta R.T. 0.01 min
Lab File: VF059474.D
Acq: 7 Jul 2018 3:54

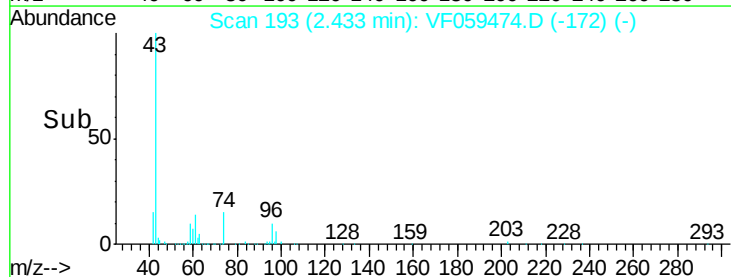
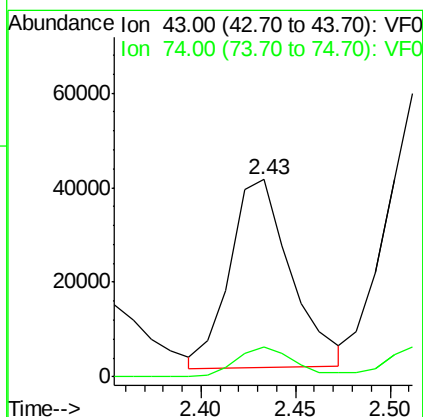
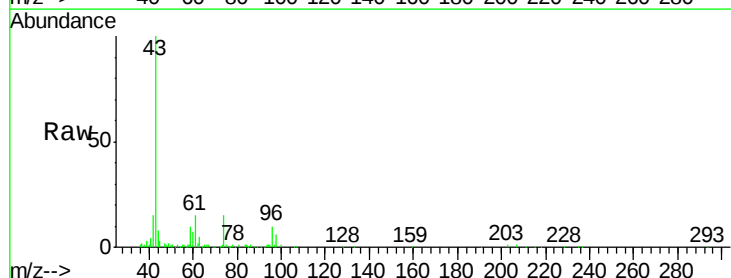
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

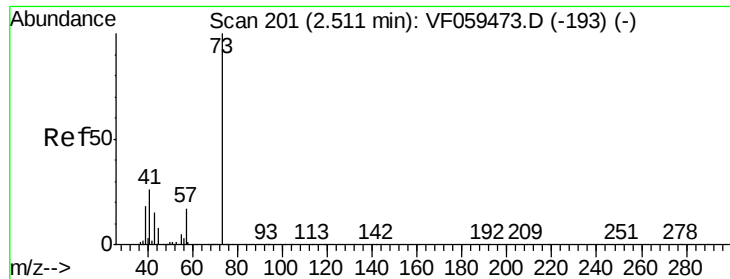
Tgt Ion: 76 Resp: 335563
Ion Ratio Lower Upper
76 100
78 10.7 8.0 12.0



#18
Methyl Acetate
Concen: 55.657 ug/l
RT: 2.43 min Scan# 193
Delta R.T. 0.01 min
Lab File: VF059474.D
Acq: 7 Jul 2018 3:54

Tgt Ion: 43 Resp: 89600
Ion Ratio Lower Upper
43 100
74 15.2 10.8 16.2



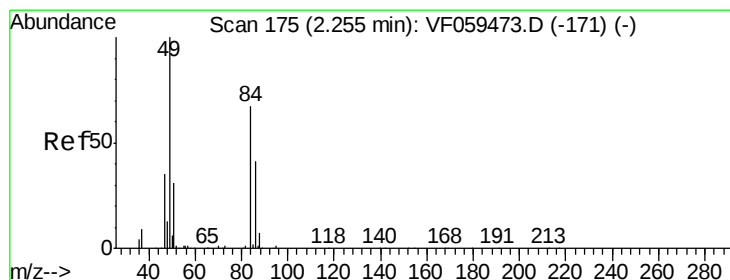
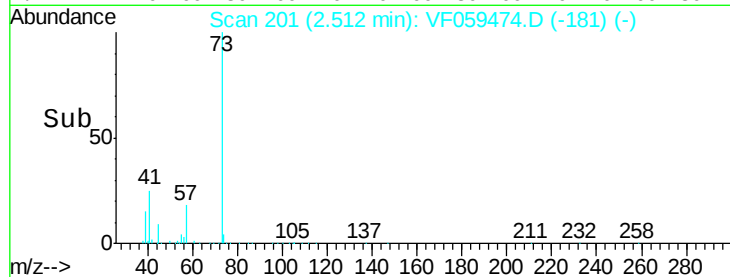
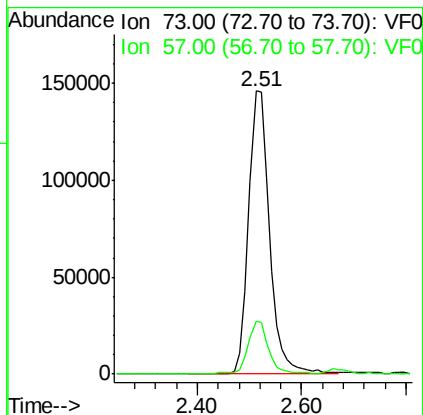
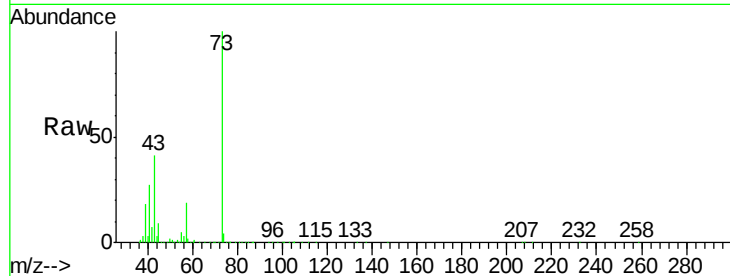


#19

Methyl tert-butyl Ether
Concen: 73.168 ug/l
RT: 2.51 min Scan# 201
Delta R.T. 0.00 min
Lab File: VF059474.D
Acq: 7 Jul 2018 3:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

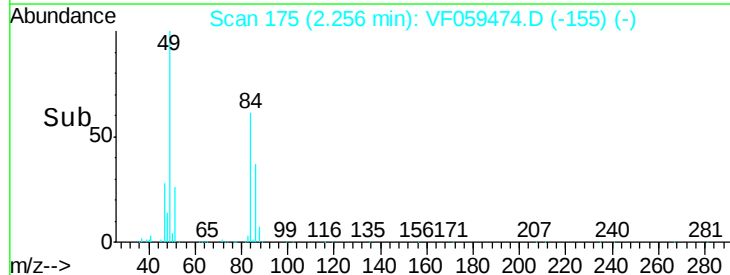
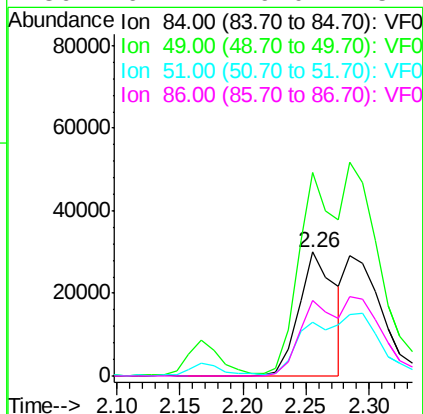
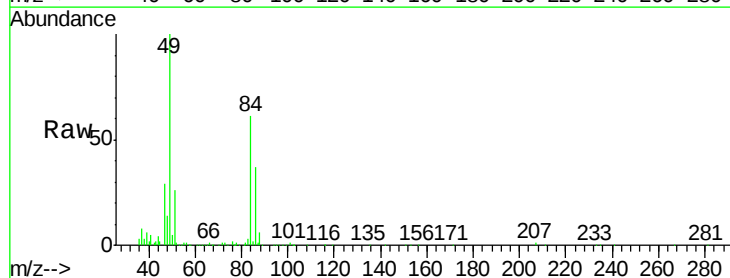
Tgt Ion: 73 Resp: 393641
Ion Ratio Lower Upper
73 100
57 18.5 13.7 20.5

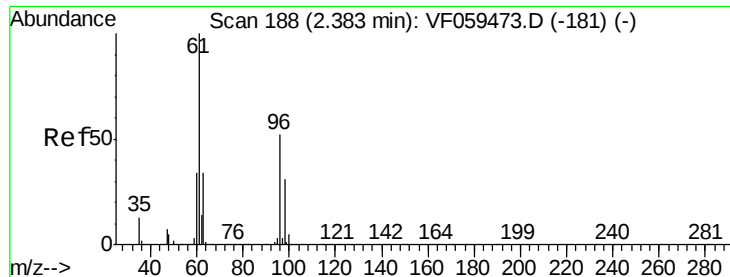


#20

Methylene Chloride
Concen: 25.806 ug/l
RT: 2.26 min Scan# 175
Delta R.T. 0.00 min
Lab File: VF059474.D
Acq: 7 Jul 2018 3:54

Tgt Ion: 84 Resp: 60393
Ion Ratio Lower Upper
84 100
49 164.0 120.4 180.6
51 43.1 38.1 57.1
86 61.1 49.0 73.4





#21

trans-1,2-Dichloroethene

Concen: 80.306 ug/l

RT: 2.39 min Scan# 189

Delta R.T. 0.01 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

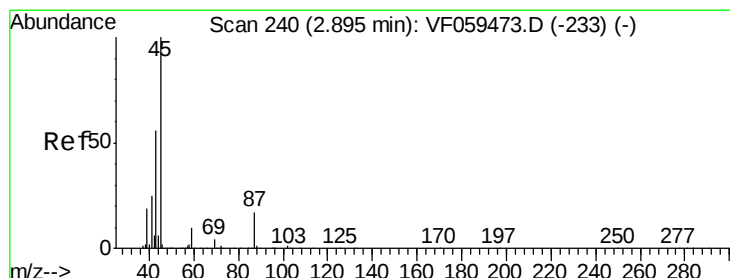
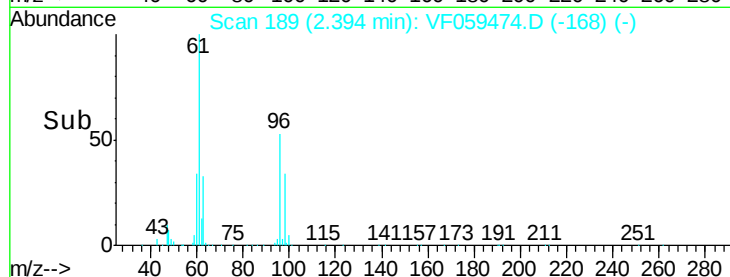
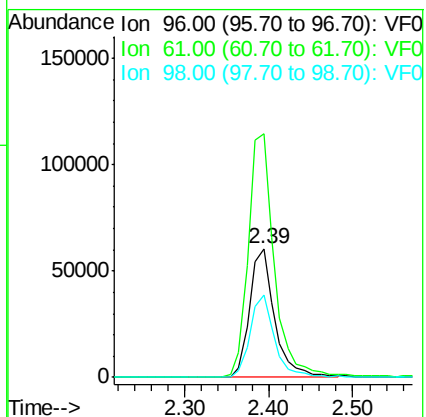
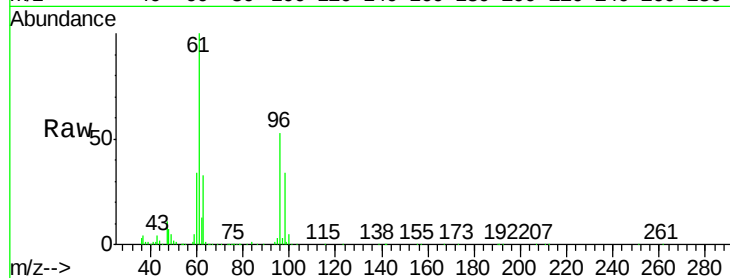
Tgt Ion: 96 Resp: 126272

Ion Ratio Lower Upper

96 100

61 189.2 154.3 231.5

98 64.0 48.2 72.4



#22

Diisopropyl ether

Concen: 74.841 ug/l

RT: 2.91 min Scan# 241

Delta R.T. 0.01 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

Tgt Ion: 45 Resp: 442843

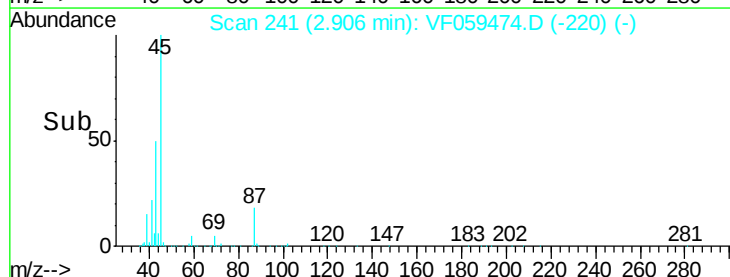
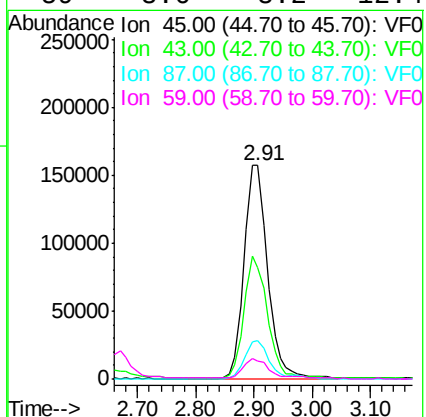
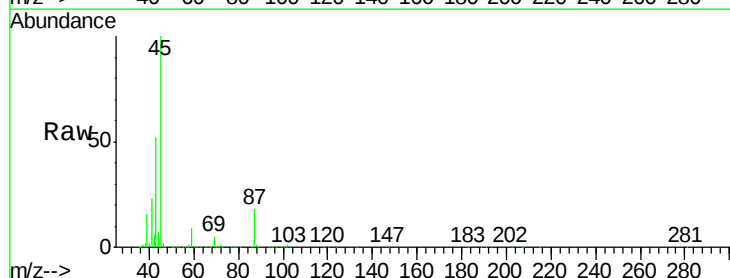
Ion Ratio Lower Upper

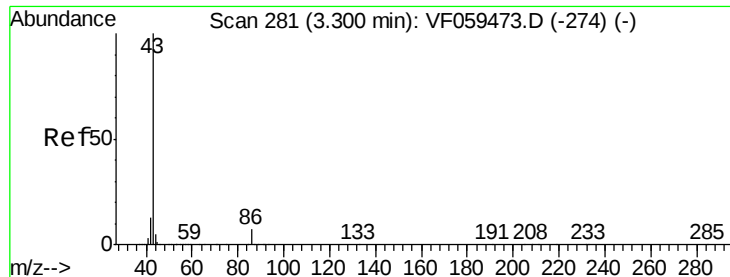
45 100

43 52.1 45.4 68.2

87 17.7 13.5 20.3

59 8.6 8.2 12.4





#23

Vinyl Acetate

Concen: 357.764 ug/l

RT: 3.30 min Scan# 281

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

Instrument :

MSVOA_F

ClientSampleId :

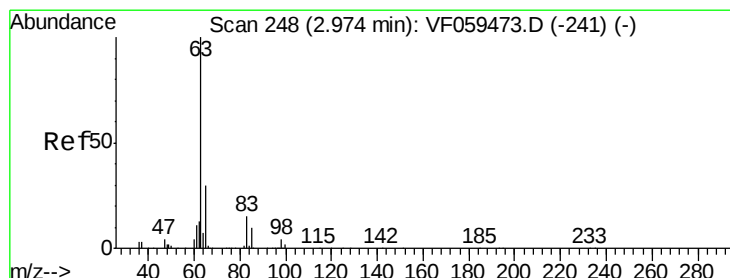
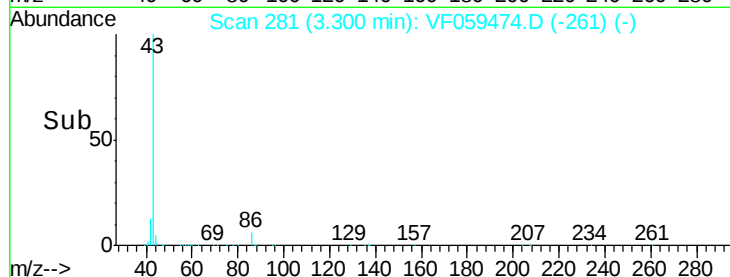
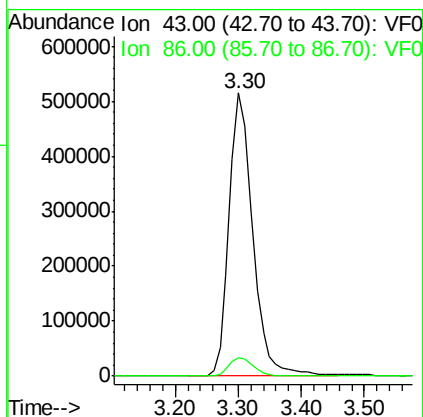
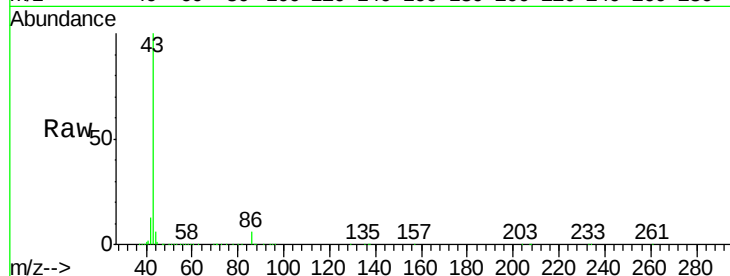
VSTDIC075

Tgt Ion: 43 Resp: 1337194

Ion Ratio Lower Upper

43 100

86 6.3 5.3 7.9



#24

1,1-Dichloroethane

Concen: 76.562 ug/l

RT: 2.98 min Scan# 248

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

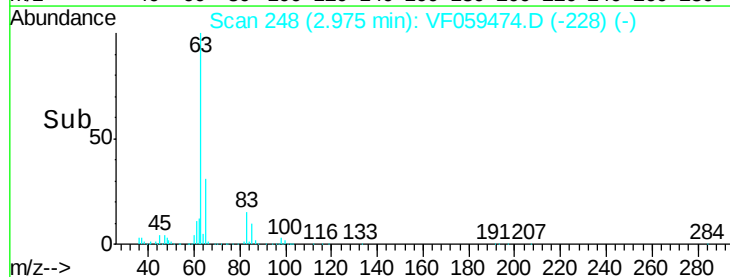
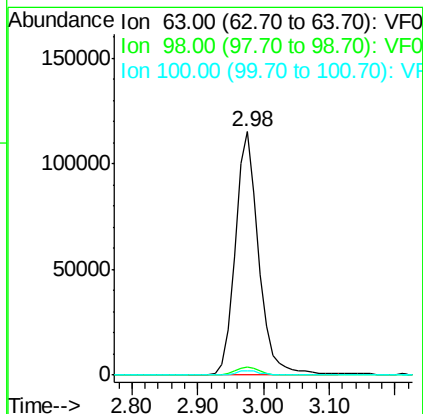
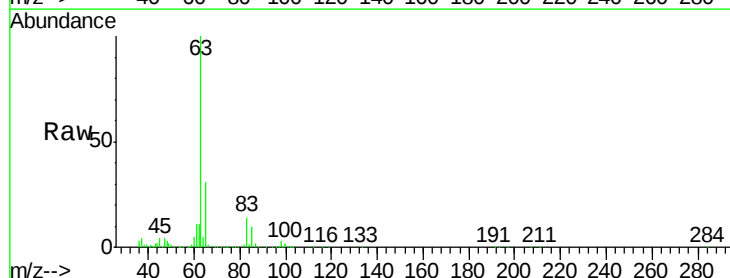
Tgt Ion: 63 Resp: 286880

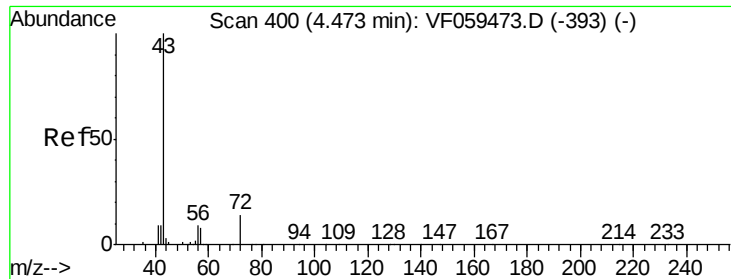
Ion Ratio Lower Upper

63 100

98 3.7 1.8 5.5

100 1.8 1.1 3.3





#25

2-Butanone

Concen: 299.411 ug/l

RT: 4.47 min Scan# 400

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

Instrument :

MSVOA_F

ClientSampleId :

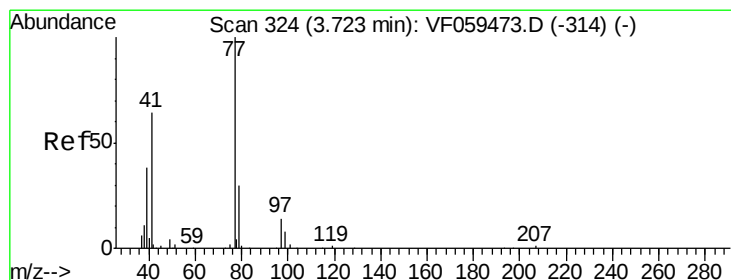
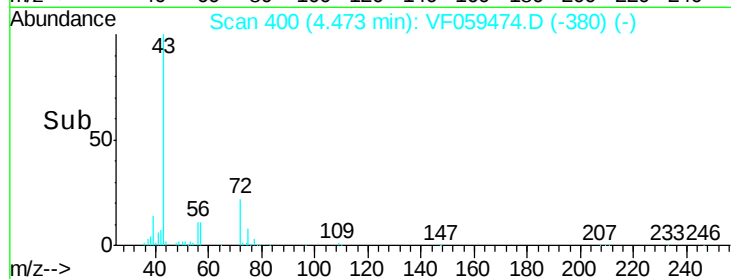
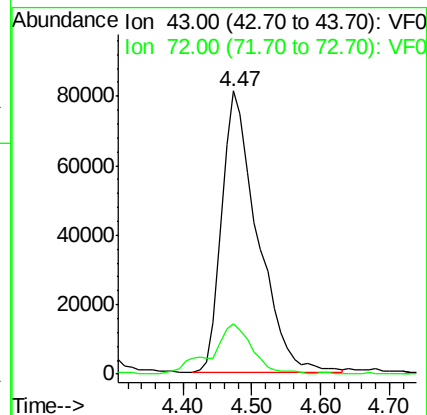
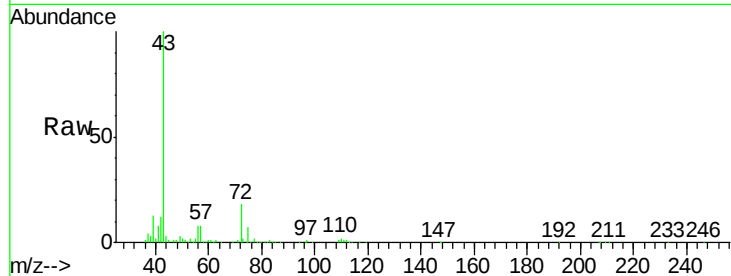
VSTDIC075

Tgt Ion: 43 Resp: 293557

Ion Ratio Lower Upper

43 100

72 17.7 13.8 20.8



#26

2,2-Dichloropropane

Concen: 68.849 ug/l

RT: 3.72 min Scan# 324

Delta R.T. 0.00 min

Lab File: VF059474.D

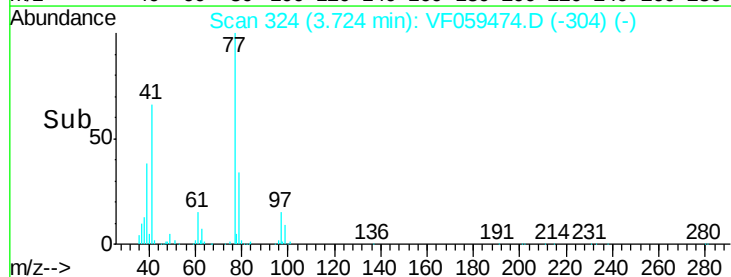
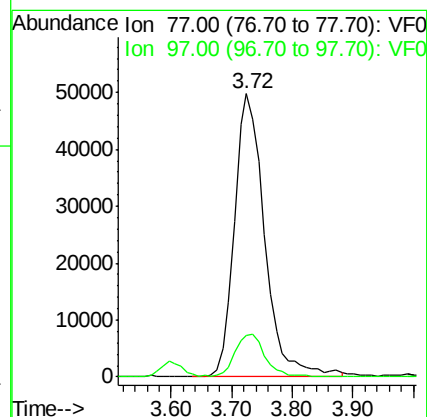
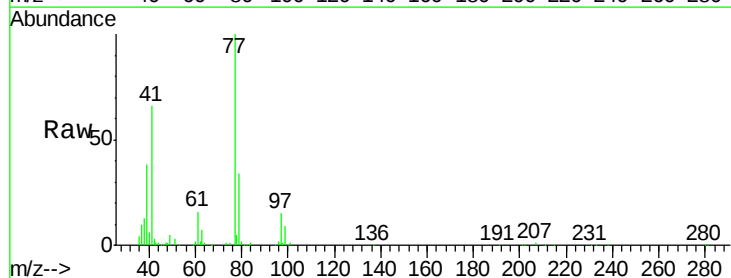
Acq: 7 Jul 2018 3:54

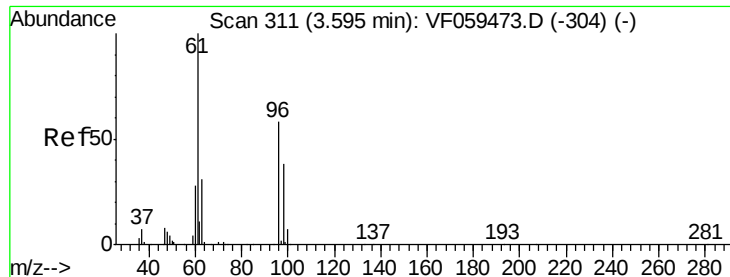
Tgt Ion: 77 Resp: 172767

Ion Ratio Lower Upper

77 100

97 14.6 7.7 23.1



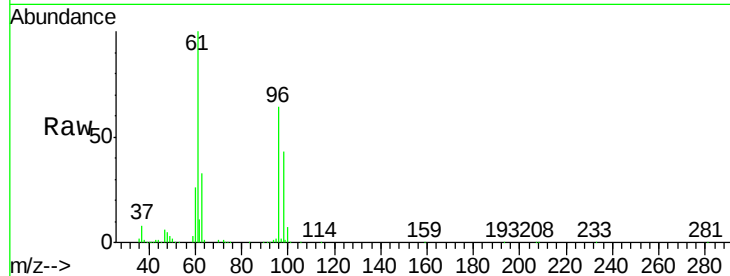


#27

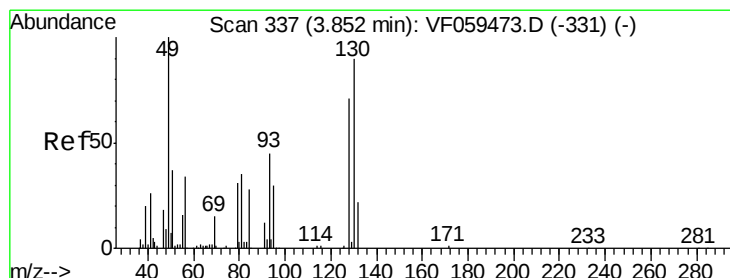
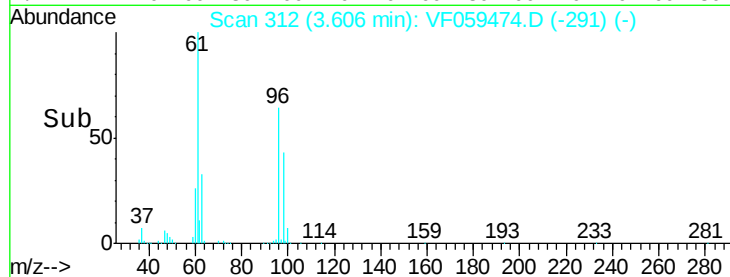
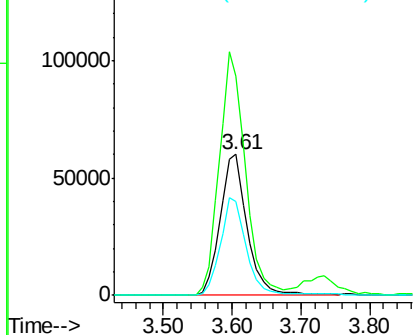
cis-1,2-Dichloroethene
Concen: 71.013 ug/l
RT: 3.61 min Scan# 312
Delta R.T. 0.01 min
Lab File: VF059474.D
Acq: 7 Jul 2018 3:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tgt Ion	Ratio	Lower	Upper
96	100		
61	155.6	0.0	342.0
98	66.4	0.0	130.0



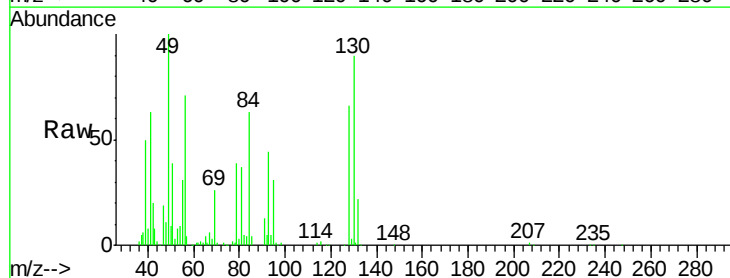
Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



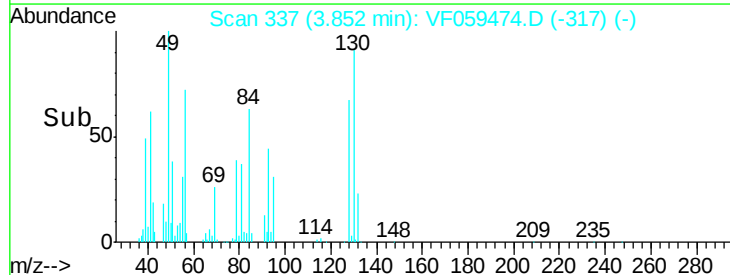
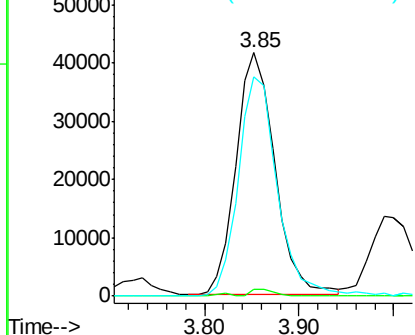
#28

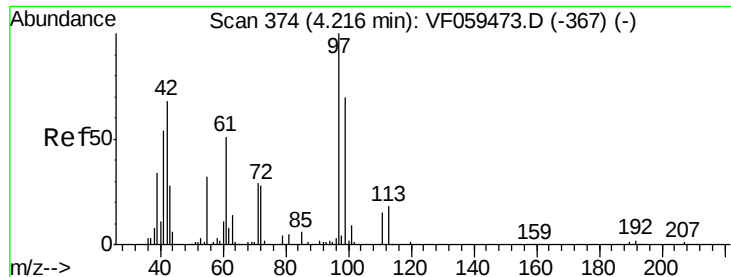
Bromochloromethane
Concen: 73.009 ug/l
RT: 3.85 min Scan# 337
Delta R.T. 0.00 min
Lab File: VF059474.D
Acq: 7 Jul 2018 3:54

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.6	0.0	6.2
130	90.1	71.4	107.0



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





#29

Tetrahydrofuran

Concen: 308.673 ug/l

RT: 4.22 min Scan# 374

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

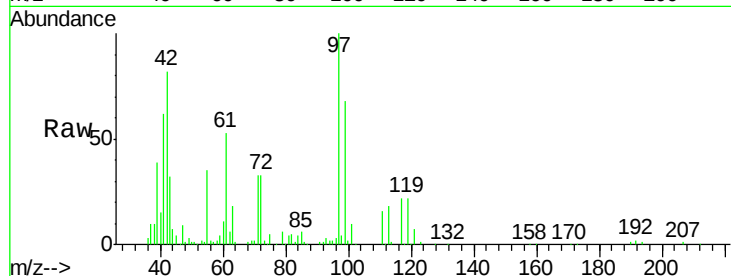
Tgt Ion: 42 Resp: 133469

Ion Ratio Lower Upper

42 100

72 37.6 29.2 43.8

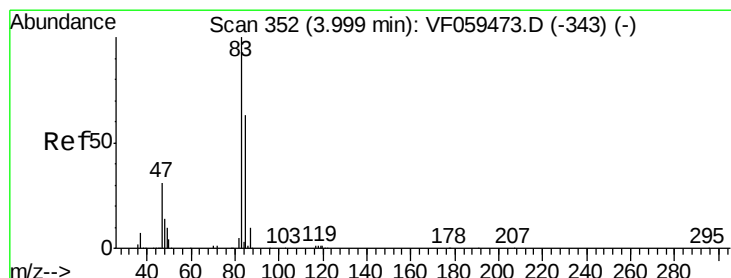
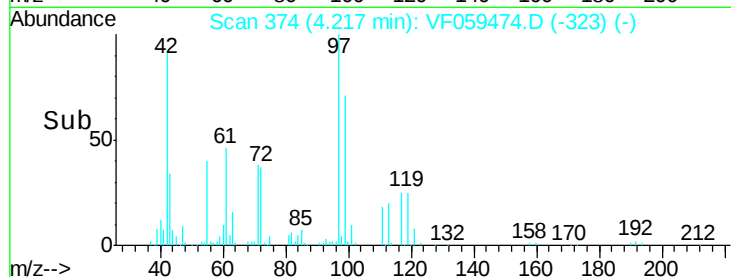
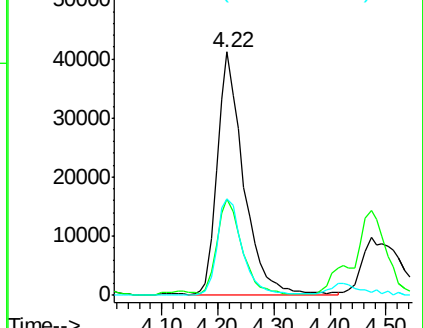
71 38.7 30.1 45.1



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: 75.203 ug/l

RT: 4.00 min Scan# 352

Delta R.T. 0.00 min

Lab File: VF059474.D

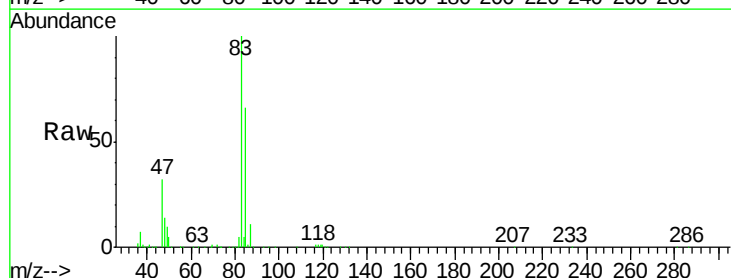
Acq: 7 Jul 2018 3:54

Tgt Ion: 83 Resp: 407760

Ion Ratio Lower Upper

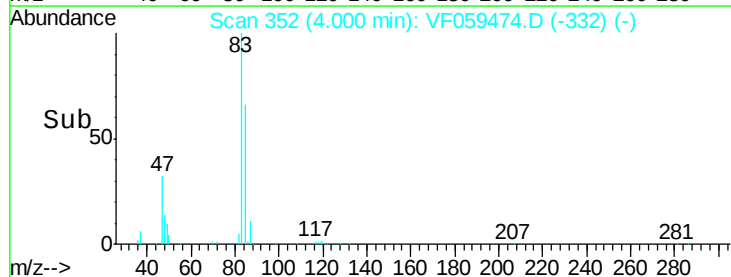
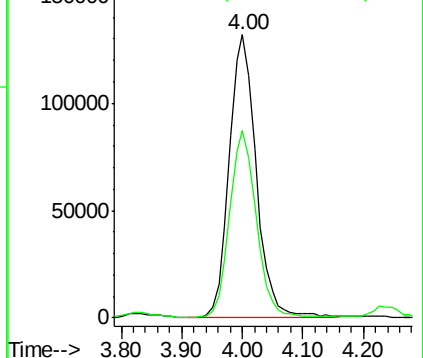
83 100

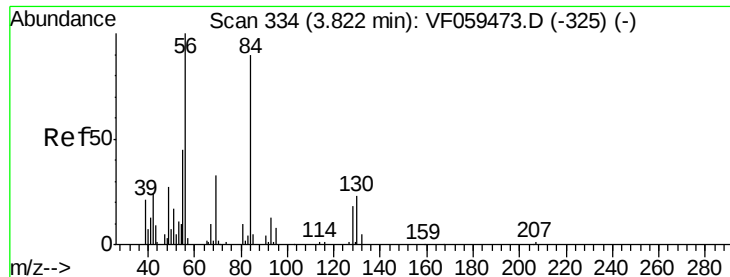
85 66.3 50.3 75.5



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

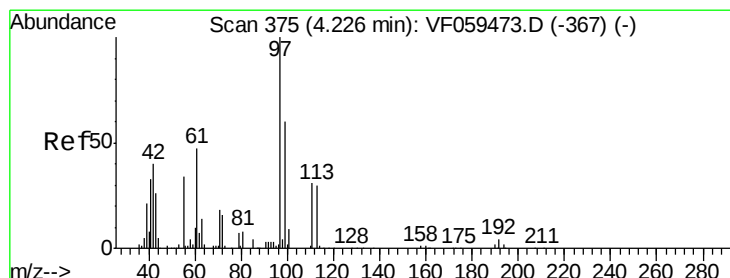
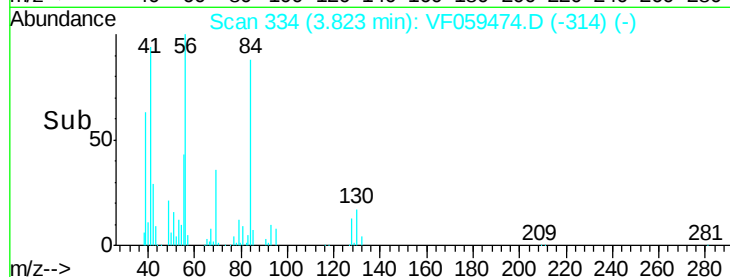
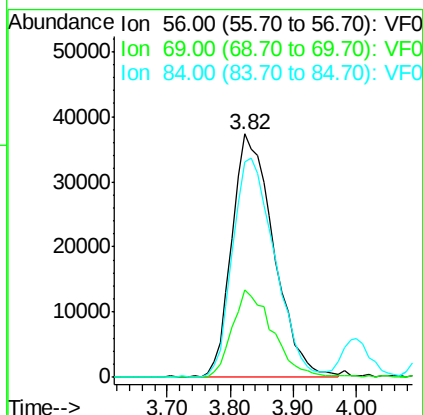
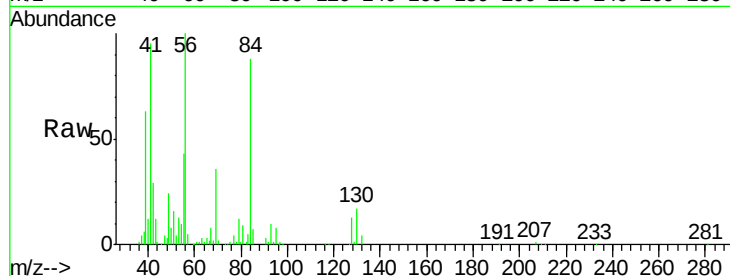




#31
Cyclohexane
Concen: 70.955 ug/l
RT: 3.82 min Scan# 334
Delta R.T. 0.00 min
Lab File: VF059474.D
Acq: 7 Jul 2018 3:54

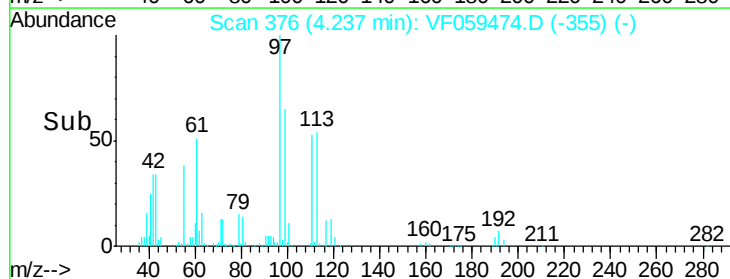
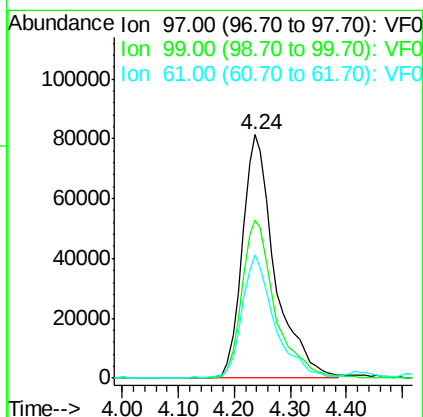
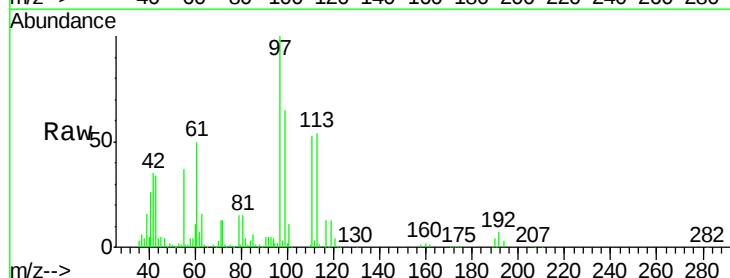
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

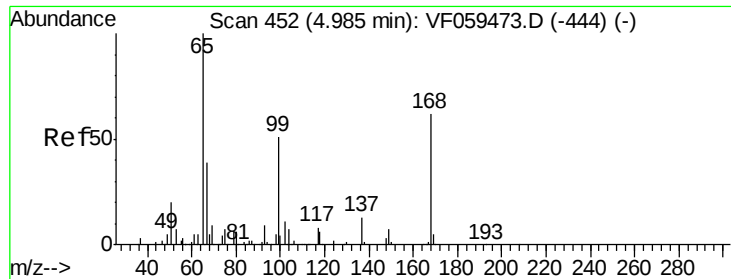
Tgt Ion: 56 Resp: 171861
Ion Ratio Lower Upper
56 100
69 35.8 26.2 39.2
84 88.3 72.3 108.5



#32
1,1,1-Trichloroethane
Concen: 81.393 ug/l
RT: 4.24 min Scan# 376
Delta R.T. 0.01 min
Lab File: VF059474.D
Acq: 7 Jul 2018 3:54

Tgt Ion: 97 Resp: 324957
Ion Ratio Lower Upper
97 100
99 65.0 47.8 71.6
61 50.4 37.9 56.9





#33

1,2-Dichloroethane-d4

Concen: 87.001 ug/l

RT: 4.99 min Scan# 452

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

Instrument :

MSVOA_F

ClientSampleId :

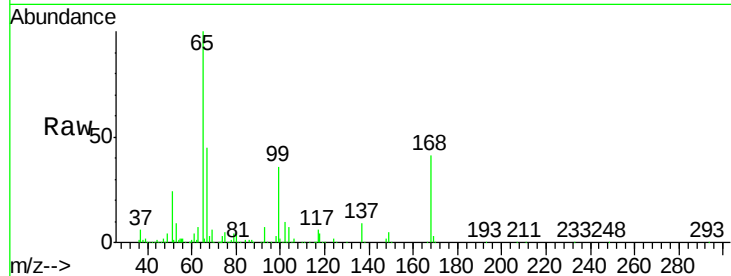
VSTDIC075

Tgt Ion: 65 Resp: 287790

Ion Ratio Lower Upper

65 100

67 45.1 0.0 88.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

120000

100000

80000

60000

40000

20000

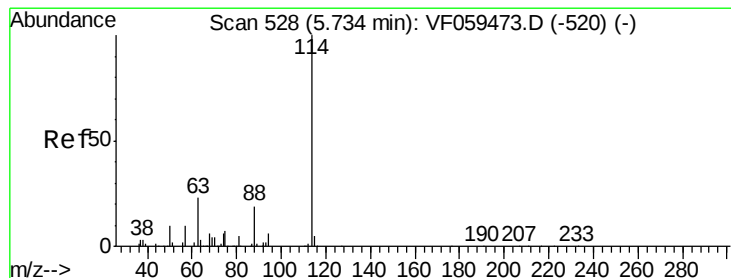
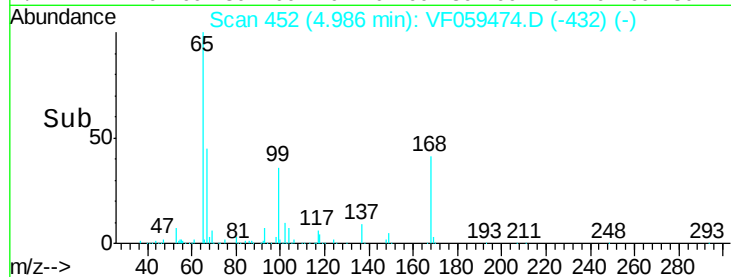
0

4.90

5.00

5.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.74 min Scan# 528

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

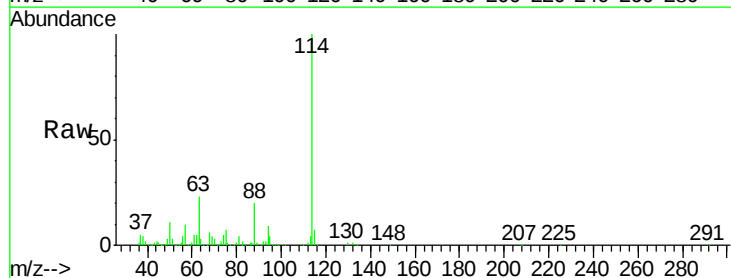
Tgt Ion: 114 Resp: 350201

Ion Ratio Lower Upper

114 100

63 23.4 0.0 47.2

88 20.3 0.0 38.0



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

150000

100000

50000

0

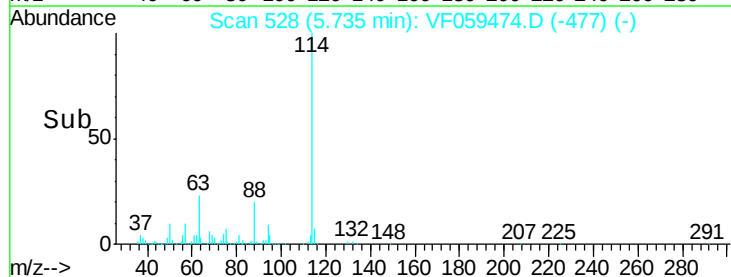
5.60

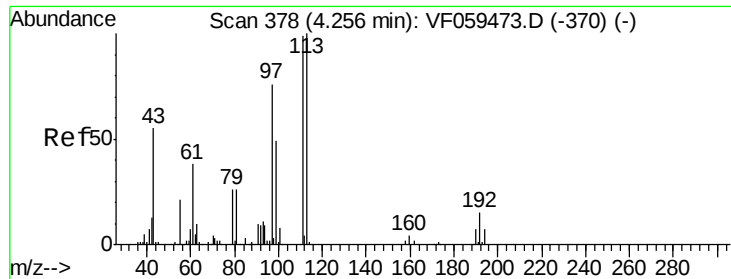
5.70

5.80

5.90

Time-->





#35

Dibromofluoromethane

Concen: 85.774 ug/l

RT: 4.26 min Scan# 378

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

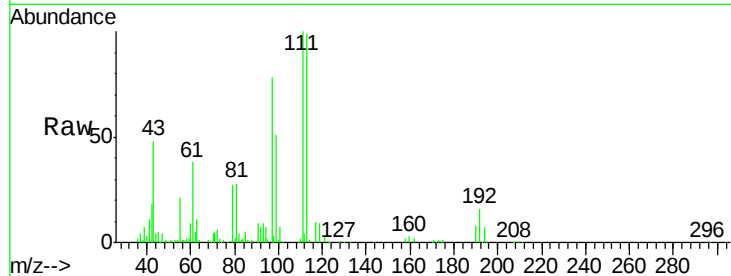
Tgt Ion:113 Resp: 231627

Ion Ratio Lower Upper

113 100

111 100.6 79.3 118.9

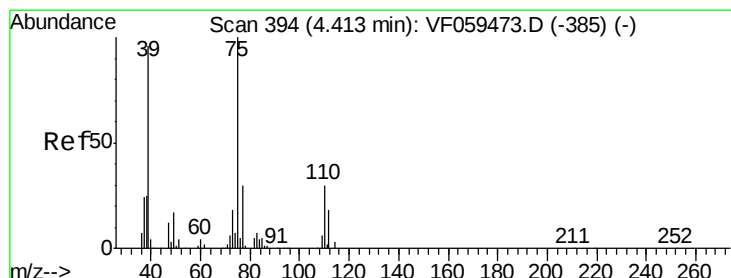
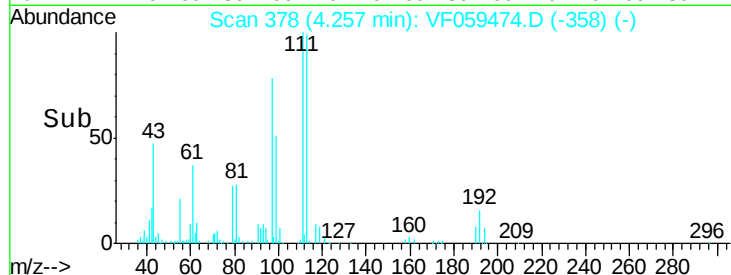
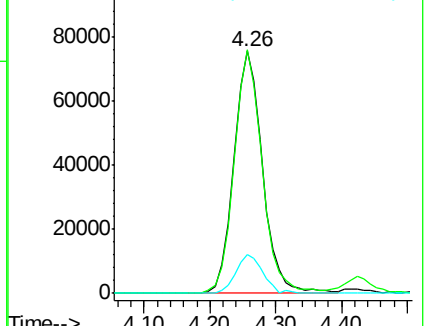
192 16.0 12.0 18.0



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 79.293 ug/l

RT: 4.42 min Scan# 395

Delta R.T. 0.01 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

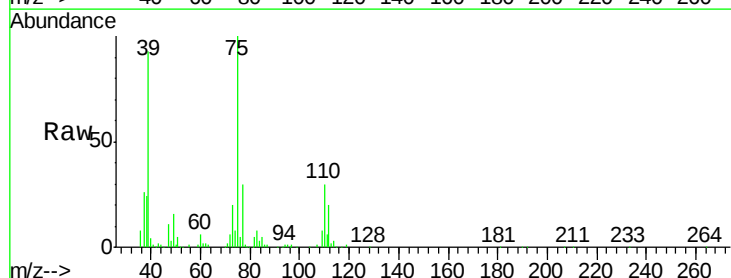
Tgt Ion: 75 Resp: 253478

Ion Ratio Lower Upper

75 100

110 30.0 15.2 45.5

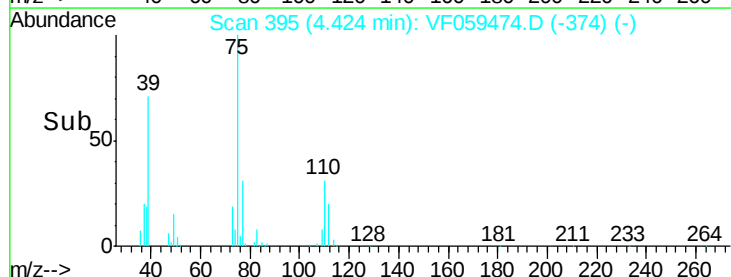
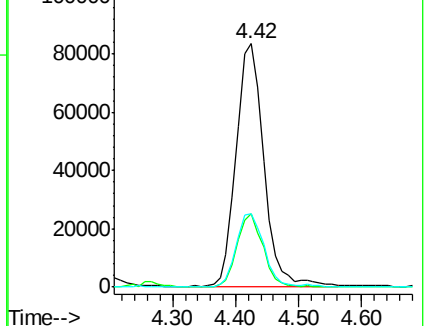
77 30.2 24.2 36.2

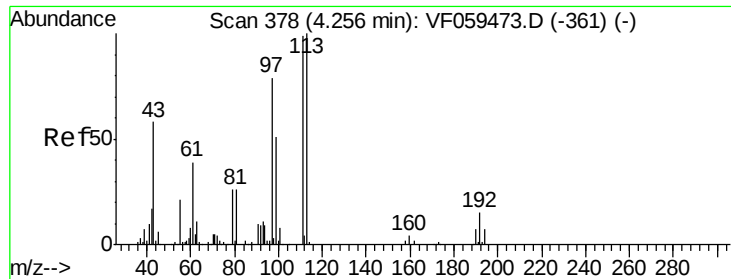


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0





#37

Ethyl Acetate

Concen: 66.759 ug/l

RT: 4.26 min Scan# 378

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

Instrument :

MSVOA_F

ClientSampled :

VSTDIC075

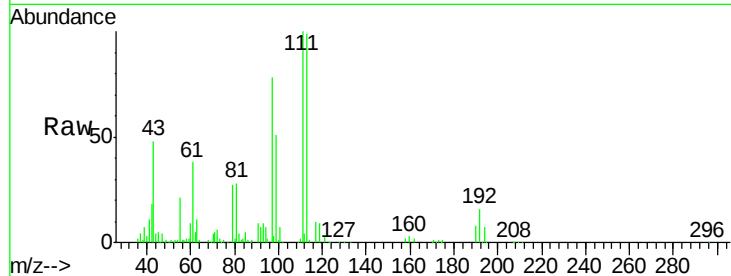
Tgt Ion: 43 Resp: 144444

Ion Ratio Lower Upper

43 100

61 78.8 54.2 81.4

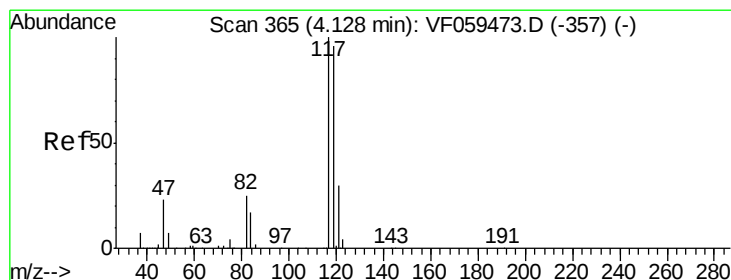
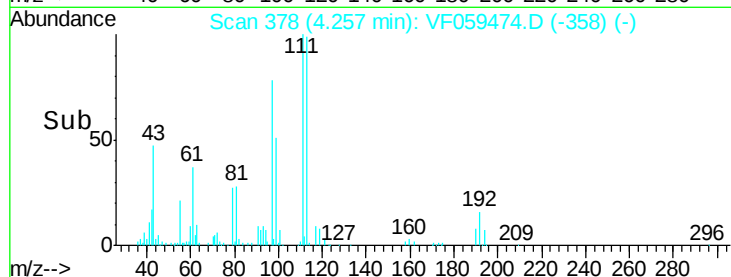
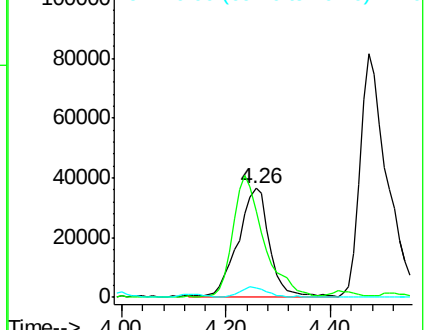
70 8.7 7.0 10.6



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: 92.265 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.01 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

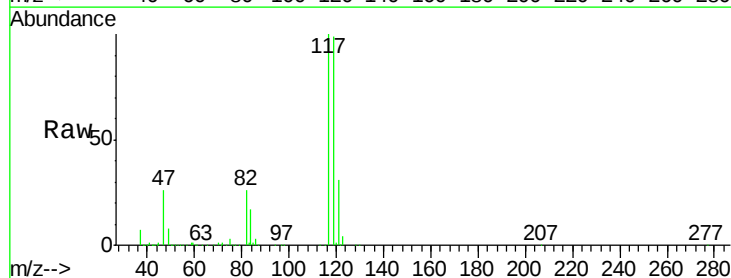
Tgt Ion: 117 Resp: 379606

Ion Ratio Lower Upper

117 100

119 98.8 76.5 114.7

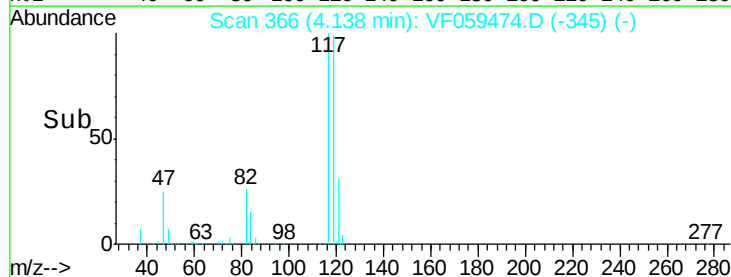
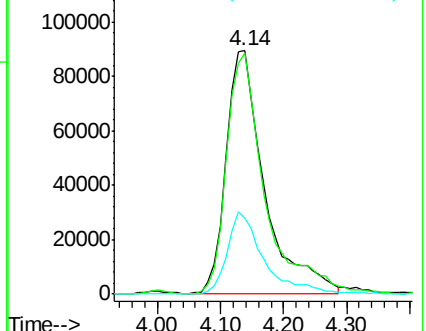
121 31.0 23.6 35.4

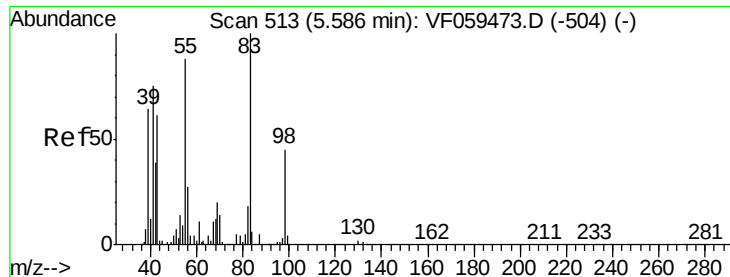


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

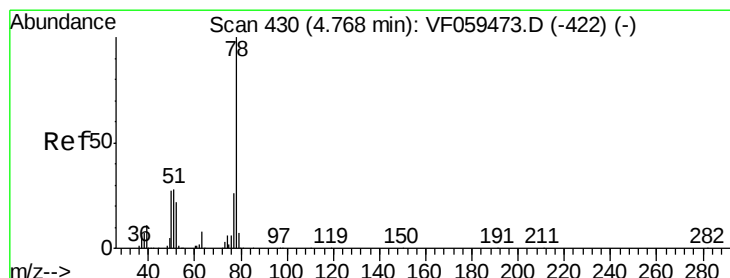
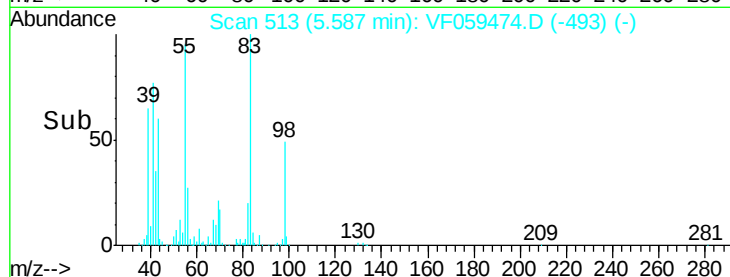
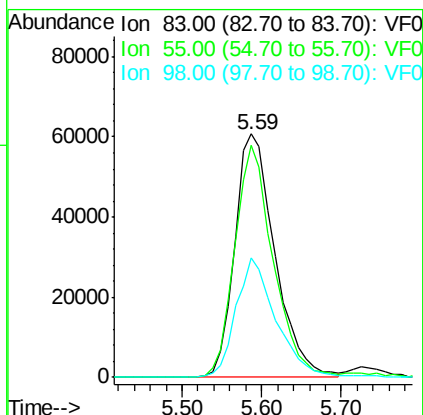
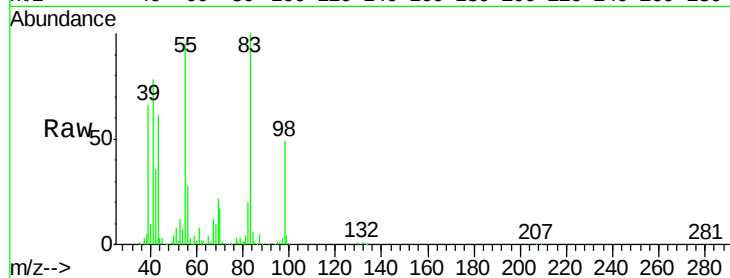




#39
Methylcyclohexane
Concen: 74.752 ug/l
RT: 5.59 min Scan# 513
Delta R.T. 0.00 min
Lab File: VF059474.D
Acq: 7 Jul 2018 3:54

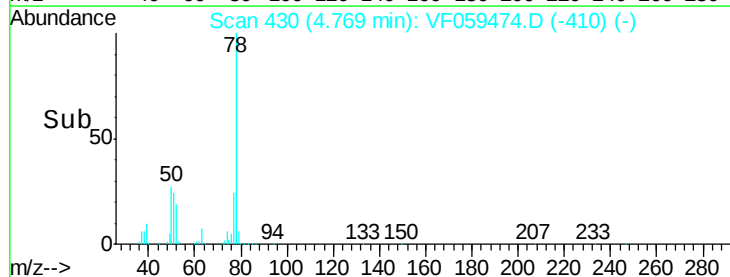
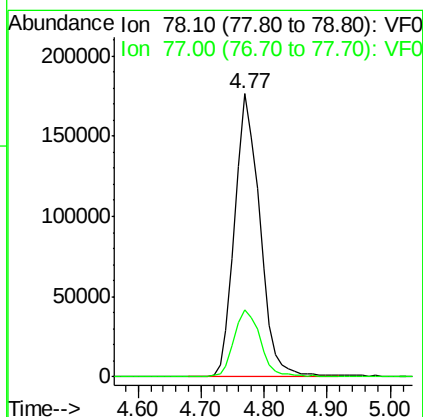
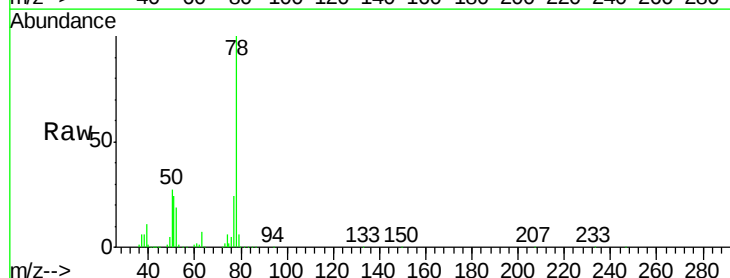
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

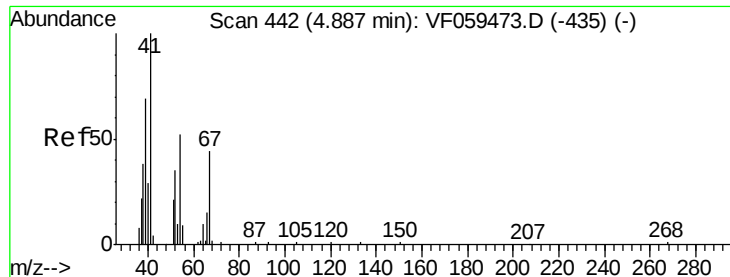
Tgt Ion: 83 Resp: 211982
Ion Ratio Lower Upper
83 100
55 95.4 70.6 105.8
98 49.2 36.3 54.5



#40
Benzene
Concen: 71.220 ug/l
RT: 4.77 min Scan# 430
Delta R.T. 0.00 min
Lab File: VF059474.D
Acq: 7 Jul 2018 3:54

Tgt Ion: 78 Resp: 489858
Ion Ratio Lower Upper
78 100
77 23.6 20.8 31.2





#41

Methacrylonitrile

Concen: 66.808 ug/l

RT: 4.89 min Scan# 442

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tgt Ion: 41 Resp: 69834

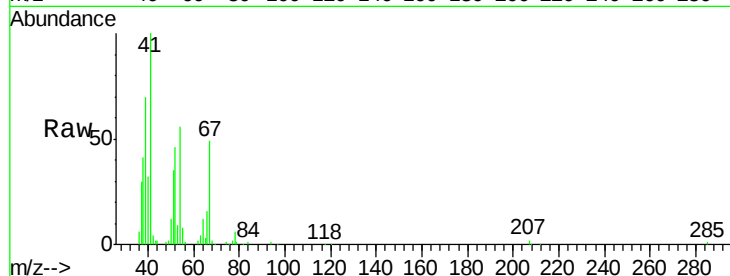
Ion Ratio Lower Upper

41 100

39 69.6 61.7 92.5

67 48.7 35.4 53.2

52 46.1 37.4 56.2

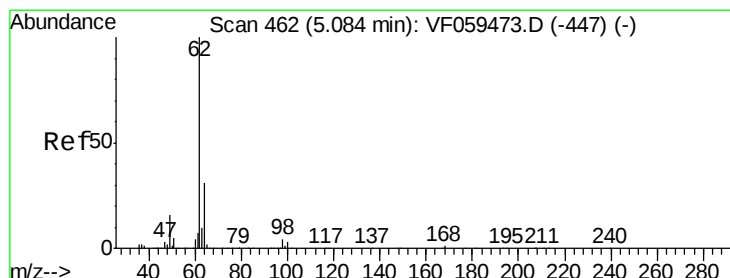
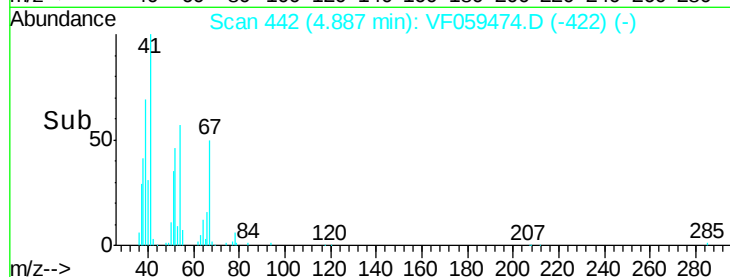
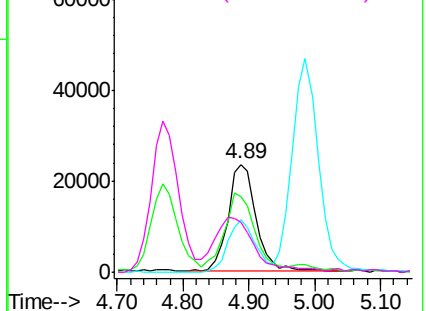


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 83.691 ug/l

RT: 5.08 min Scan# 462

Delta R.T. 0.00 min

Lab File: VF059474.D

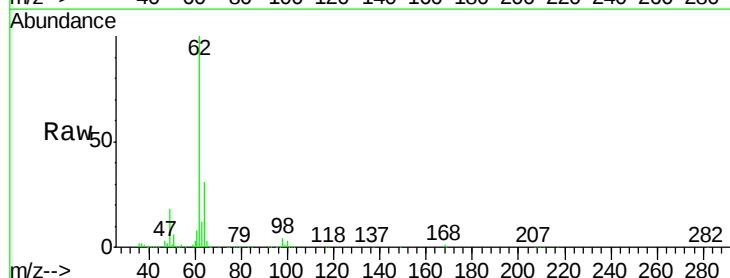
Acq: 7 Jul 2018 3:54

Tgt Ion: 62 Resp: 350450

Ion Ratio Lower Upper

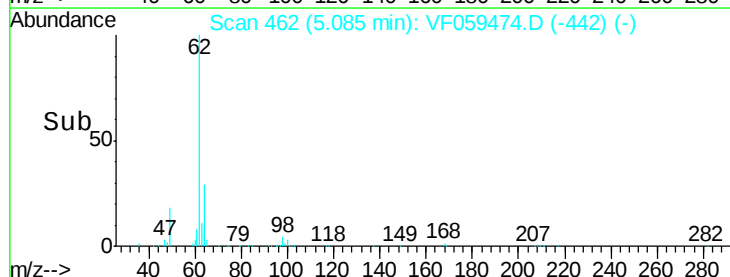
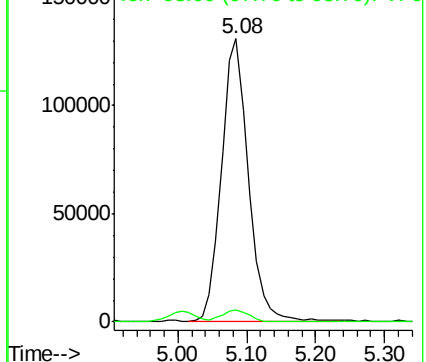
62 100

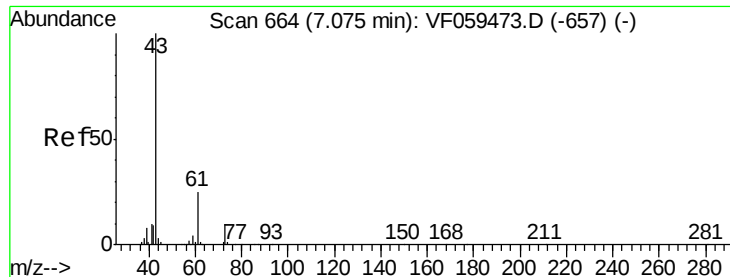
98 4.1 0.0 7.6



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

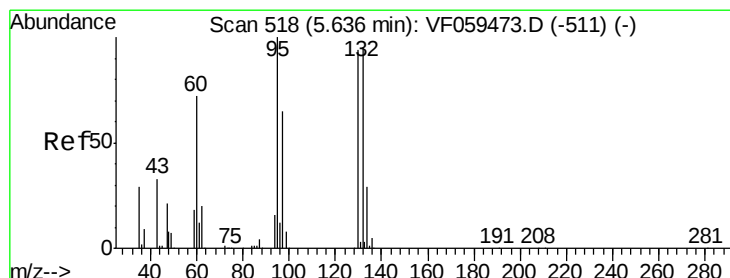
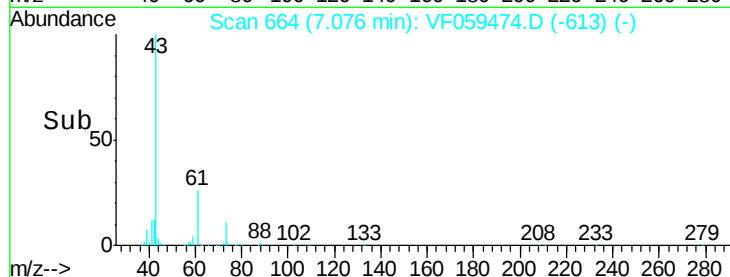
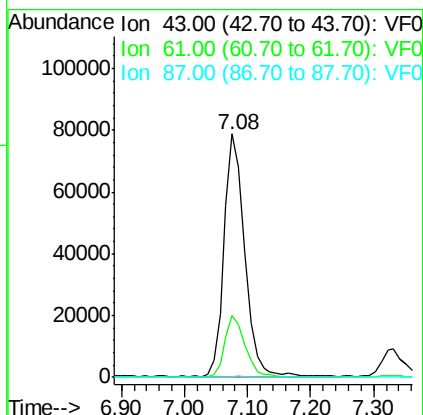
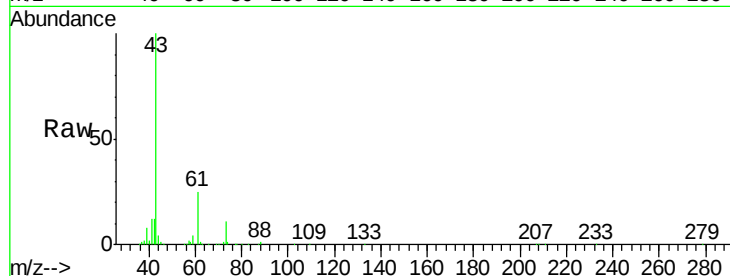




#43
Isopropyl Acetate
Concen: 70.804 ug/l
RT: 7.08 min Scan# 664
Delta R.T. 0.00 min
Lab File: VF059474.D
Acq: 7 Jul 2018 3:54

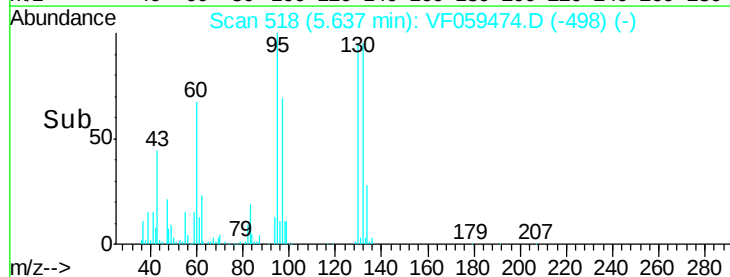
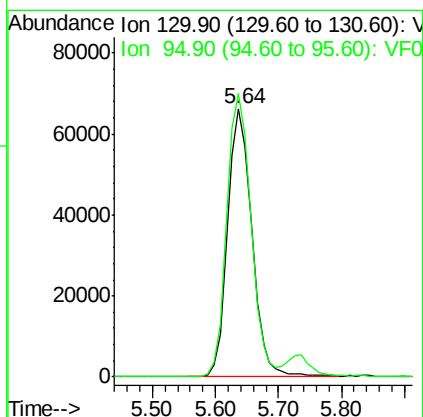
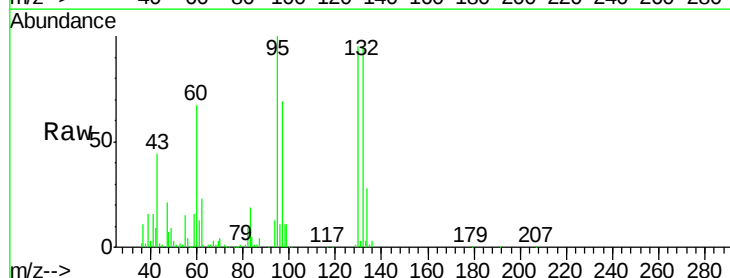
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

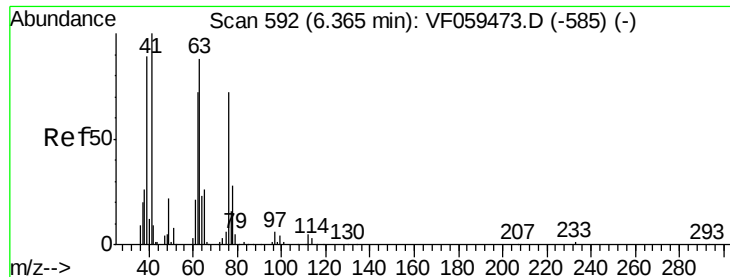
Tgt Ion: 43 Resp: 179713
Ion Ratio Lower Upper
43 100
61 25.5 20.3 30.5
87 0.4 0.3 0.5



#44
Trichloroethene
Concen: 73.294 ug/l
RT: 5.64 min Scan# 518
Delta R.T. 0.00 min
Lab File: VF059474.D
Acq: 7 Jul 2018 3:54

Tgt Ion: 130 Resp: 176750
Ion Ratio Lower Upper
130 100
95 105.6 0.0 214.6





#45

1,2-Dichloropropane

Concen: 71.053 ug/l

RT: 6.37 min Scan# 592

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

Instrument :

MSVOA_F

ClientSampleId :

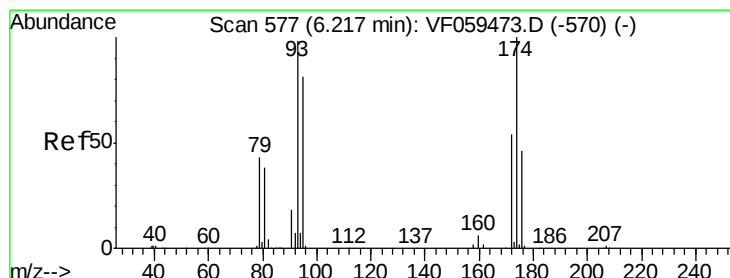
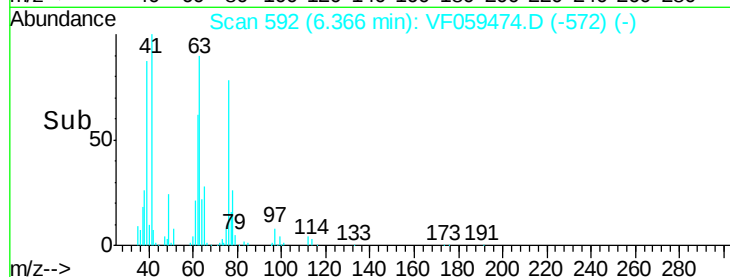
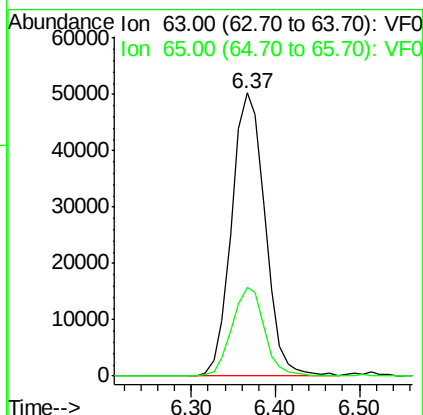
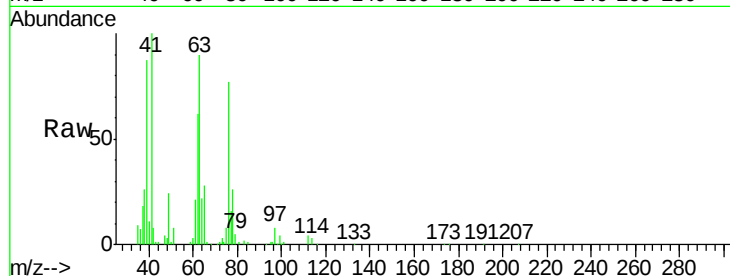
VSTDIC075

Tgt Ion: 63 Resp: 139154

Ion Ratio Lower Upper

63 100

65 31.3 23.5 35.3



#46

Dibromomethane

Concen: 77.461 ug/l

RT: 6.22 min Scan# 577

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

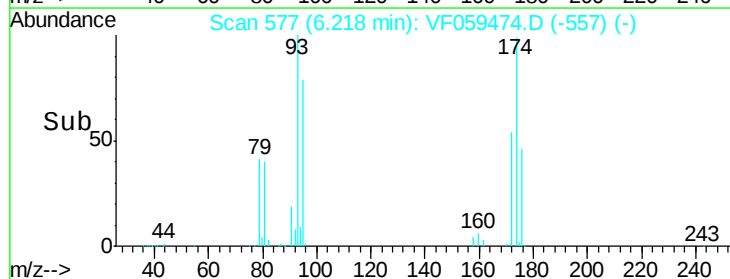
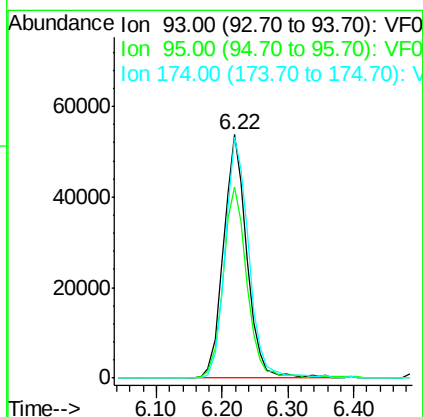
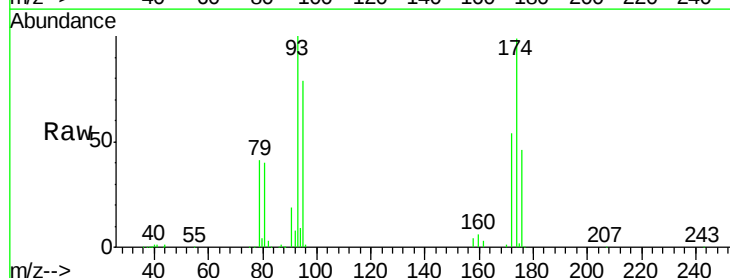
Tgt Ion: 93 Resp: 133657

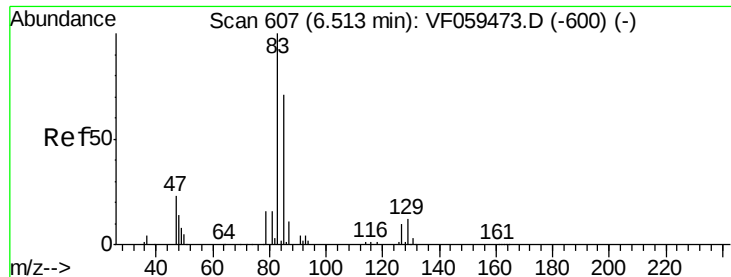
Ion Ratio Lower Upper

93 100

95 78.6 65.9 98.9

174 98.9 83.2 124.8





#47

Bromodichloromethane

Concen: 81.717 ug/l

RT: 6.51 min Scan# 607

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

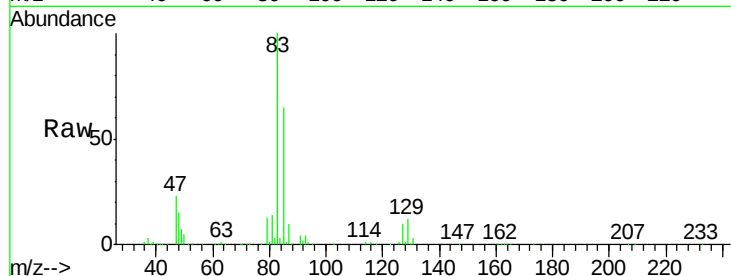
Tgt Ion: 83 Resp: 343320

Ion Ratio Lower Upper

83 100

85 65.0 56.6 84.8

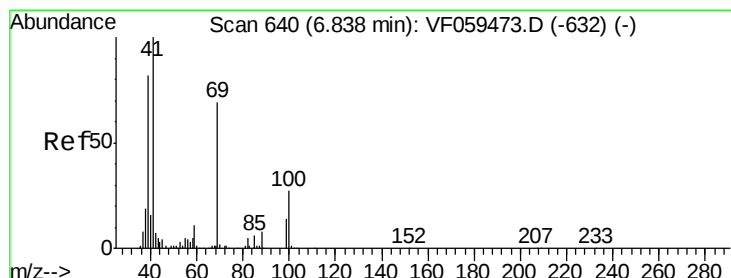
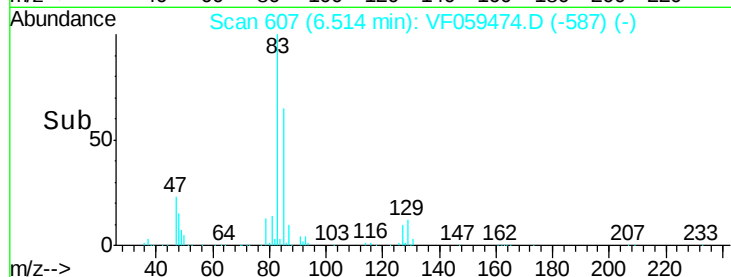
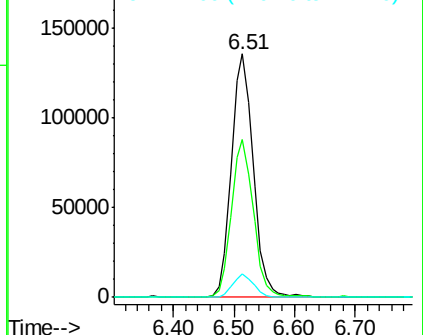
127 9.7 8.1 12.1



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: 74.687 ug/l

RT: 6.84 min Scan# 640

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

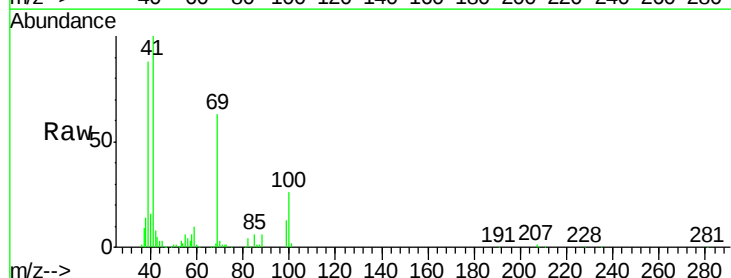
Tgt Ion: 41 Resp: 129095

Ion Ratio Lower Upper

41 100

69 63.4 55.6 83.4

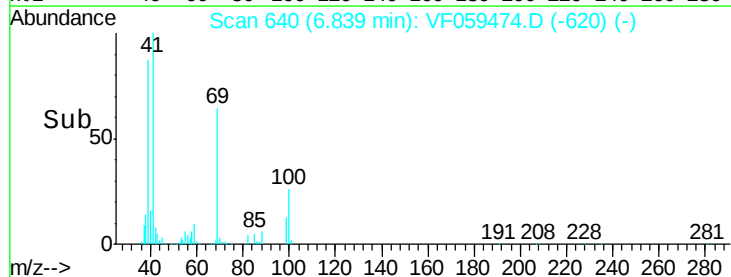
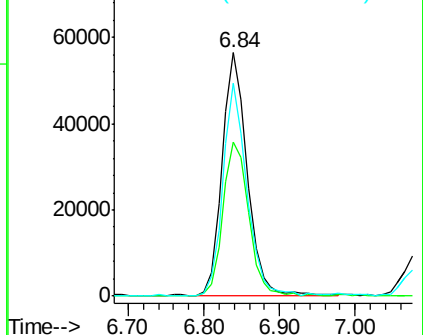
39 87.5 66.0 99.0

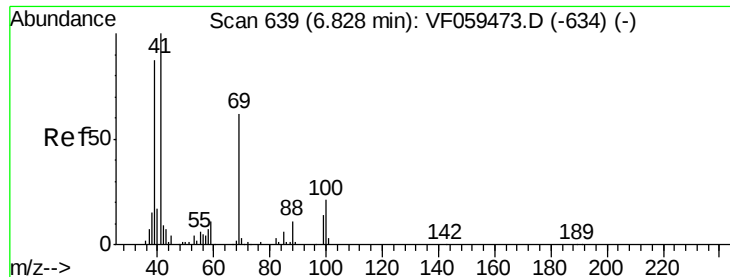


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

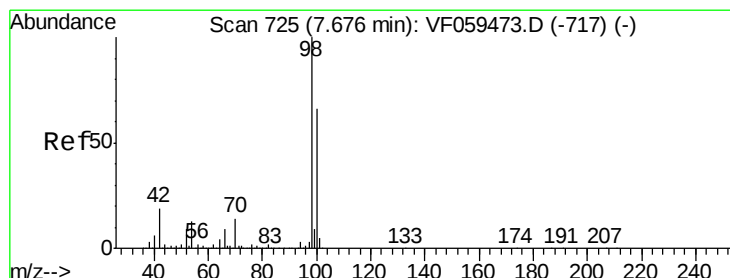
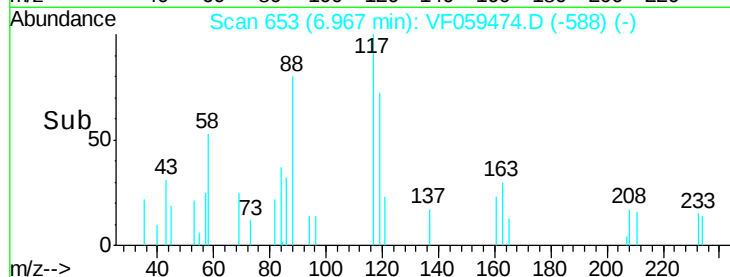
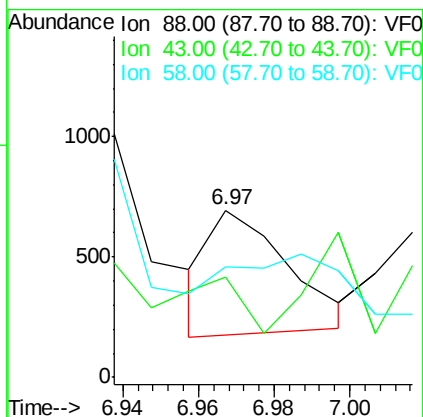
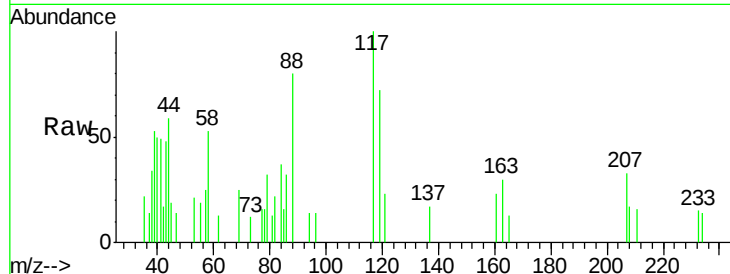




#49
1,4-Dioxane
Concen: 71.327 ug/l
RT: 6.97 min Scan# 653
Delta R.T. 0.14 min
Lab File: VF059474.D
Acq: 7 Jul 2018 3:54

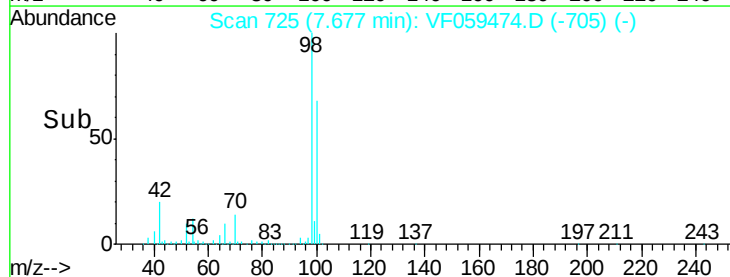
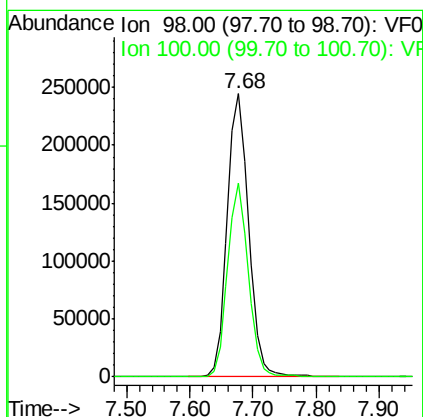
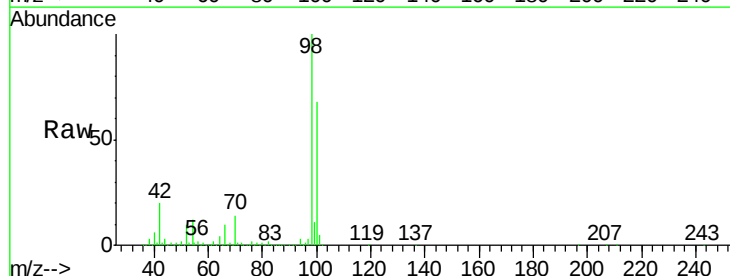
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

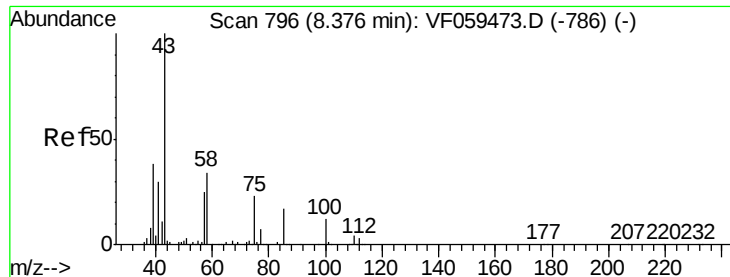
Tgt Ion: 88 Resp: 743
Ion Ratio Lower Upper
88 100
43 59.9 57.3 85.9
58 66.1 54.6 81.8



#50
Toluene-d8
Concen: 86.647 ug/l
RT: 7.68 min Scan# 725
Delta R.T. 0.00 min
Lab File: VF059474.D
Acq: 7 Jul 2018 3:54

Tgt Ion: 98 Resp: 575227
Ion Ratio Lower Upper
98 100
100 68.3 52.6 78.8





#51

4-Methyl-2-Pentanone

Concen: 325.280 ug/l

RT: 8.38 min Scan# 796

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

Instrument :

MSVOA_F

ClientSampleId :

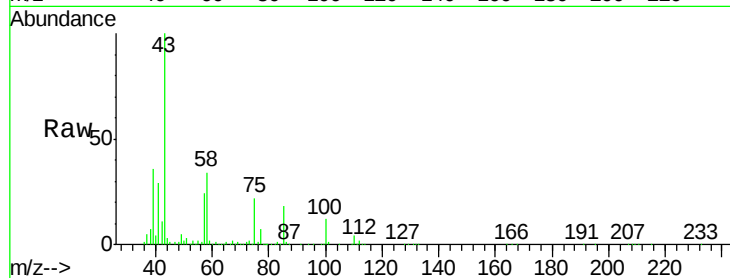
VSTDIC075

Tgt Ion: 43 Resp: 615563

Ion Ratio Lower Upper

43 100

58 34.3 27.4 41.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.38

250000

200000

150000

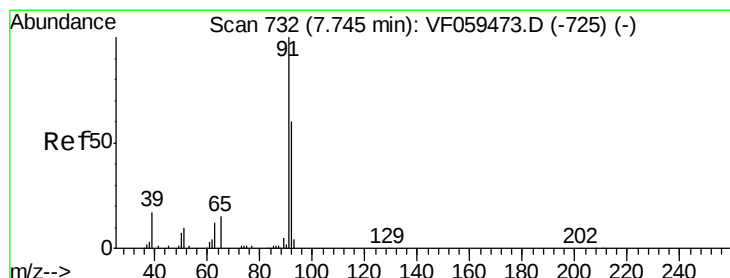
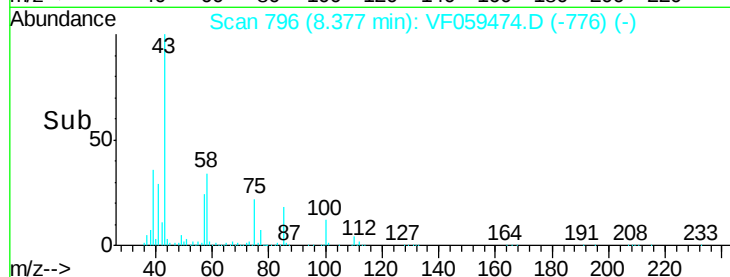
100000

50000

0

8.30 8.40 8.50

Time-->



#52

Toluene

Concen: 71.252 ug/l

RT: 7.75 min Scan# 732

Delta R.T. 0.00 min

Lab File: VF059474.D

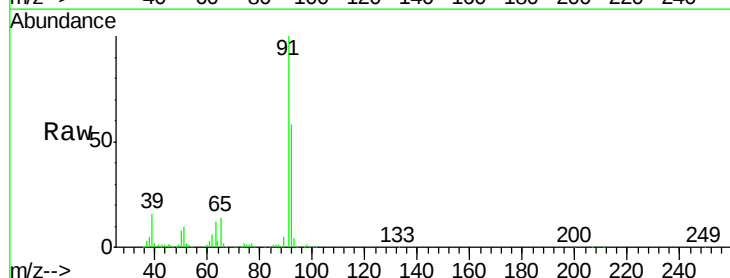
Acq: 7 Jul 2018 3:54

Tgt Ion: 92 Resp: 369209

Ion Ratio Lower Upper

92 100

91 173.5 134.3 201.5



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.75

300000

250000

200000

150000

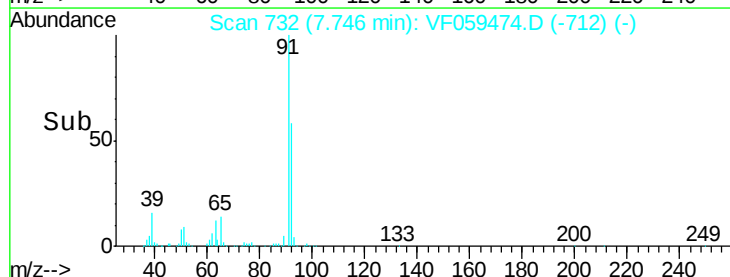
100000

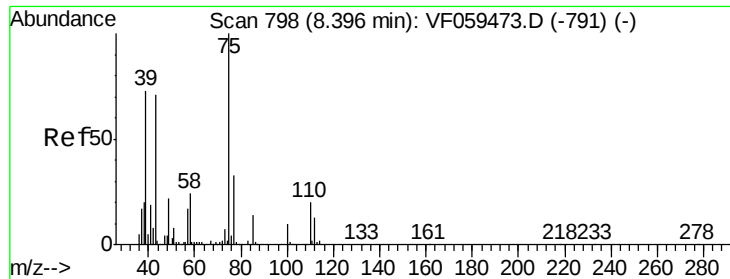
50000

0

7.60 7.70 7.80 7.90

Time-->





#53

t-1,3-Dichloropropene

Concen: 74.670 ug/l

RT: 8.40 min Scan# 798

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

Instrument :

MSVOA_F

ClientSampleId :

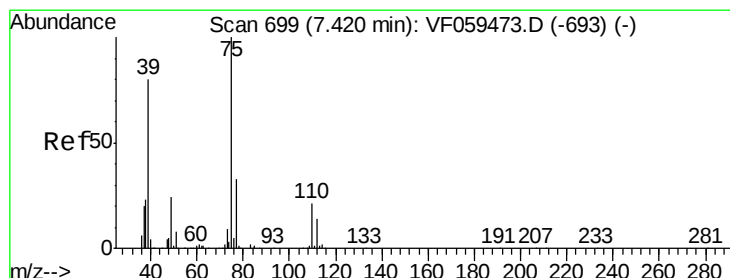
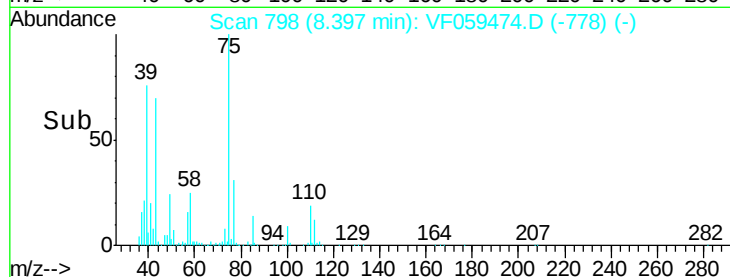
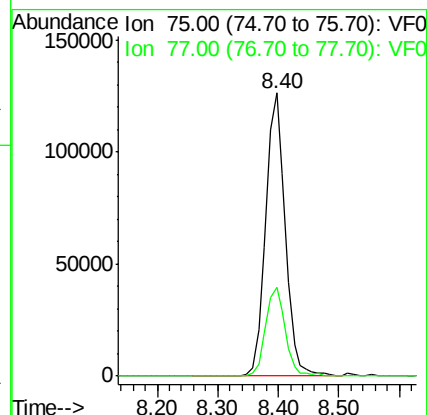
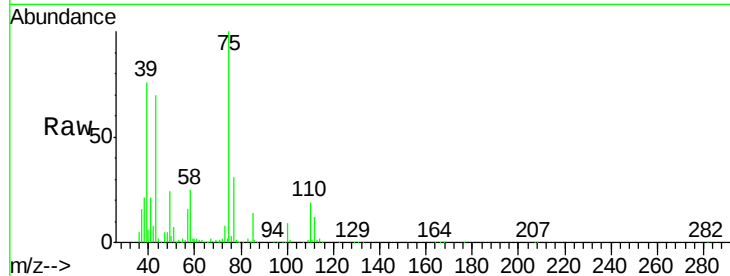
VSTDIC075

Tgt Ion: 75 Resp: 284011

Ion Ratio Lower Upper

75 100

77 31.3 26.4 39.6



#54

cis-1,3-Dichloropropene

Concen: 73.425 ug/l

RT: 7.42 min Scan# 699

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

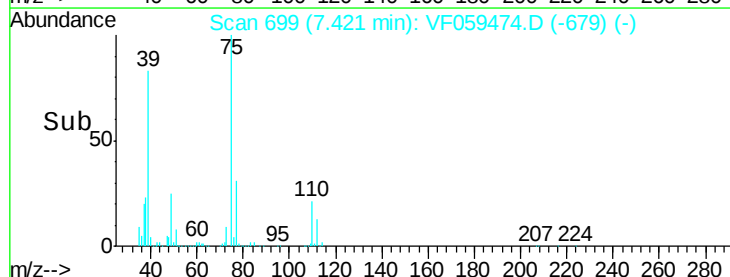
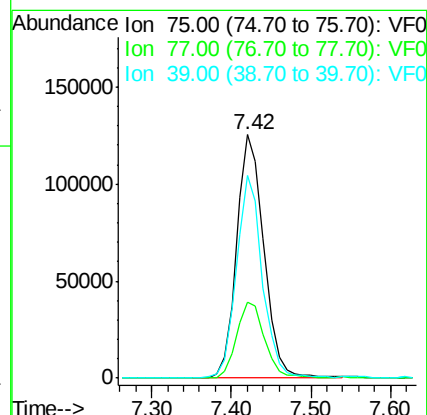
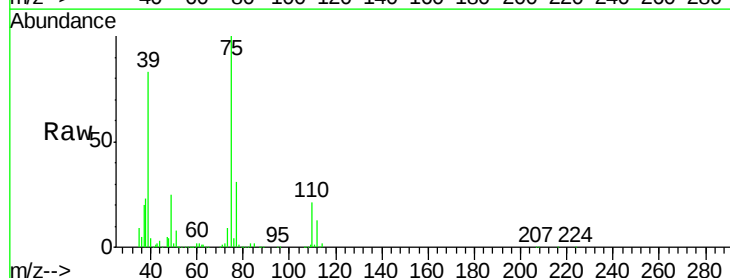
Tgt Ion: 75 Resp: 299060

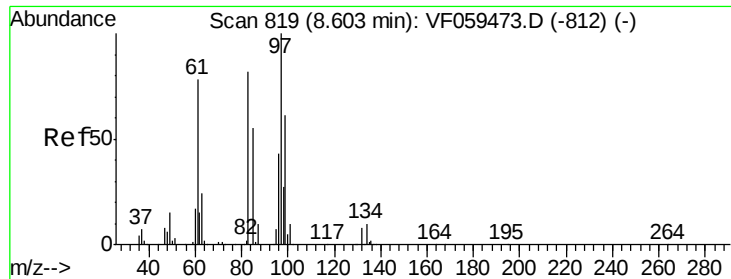
Ion Ratio Lower Upper

75 100

77 31.2 26.2 39.4

39 83.5 64.5 96.7





#55

1,1,2-Trichloroethane

Concen: 74.256 ug/l

RT: 8.60 min Scan# 819

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tgt Ion: 97 Resp: 148495

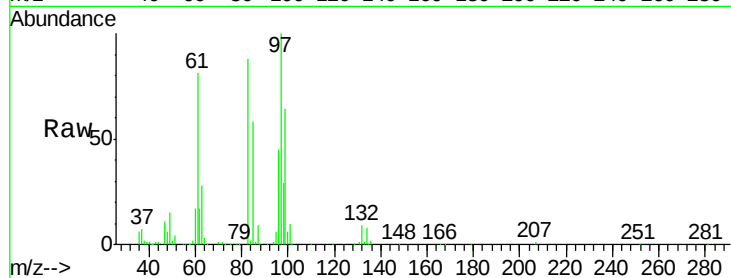
Ion Ratio Lower Upper

97 100

83 87.7 65.7 98.5

85 58.5 43.8 65.6

99 64.4 48.5 72.7

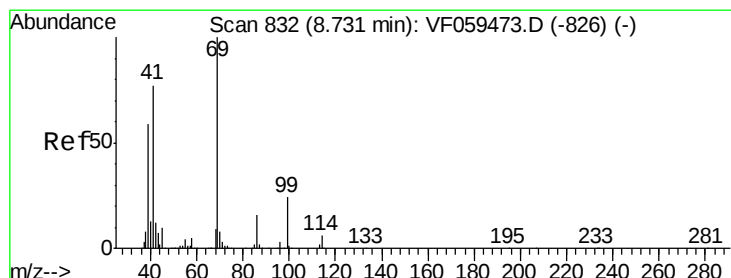
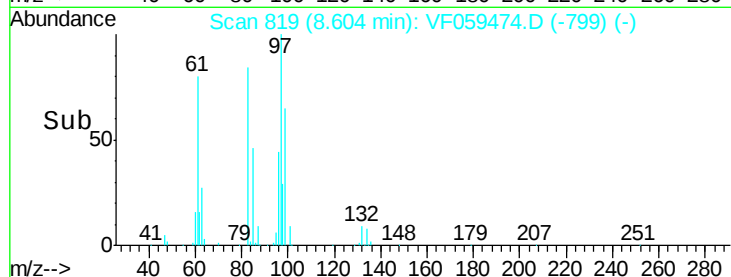
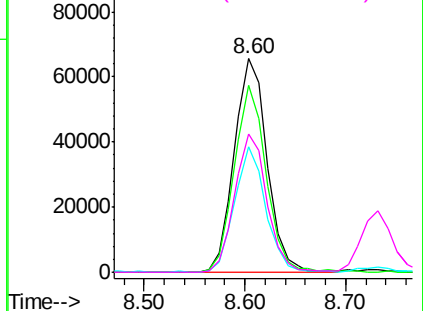


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 70.738 ug/l

RT: 8.73 min Scan# 832

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

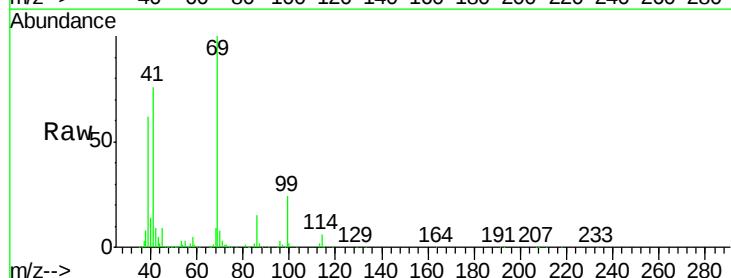
Tgt Ion: 69 Resp: 172190

Ion Ratio Lower Upper

69 100

41 76.2 62.2 93.4

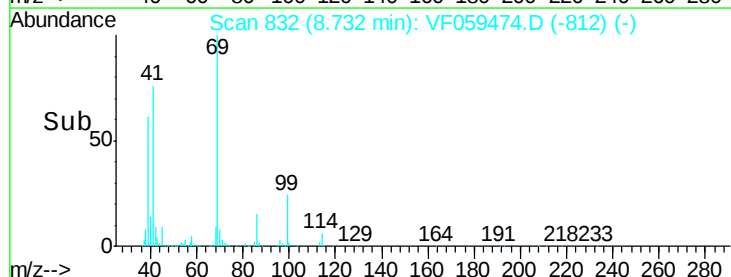
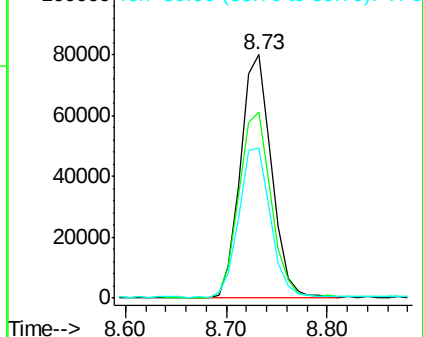
39 61.5 47.7 71.5

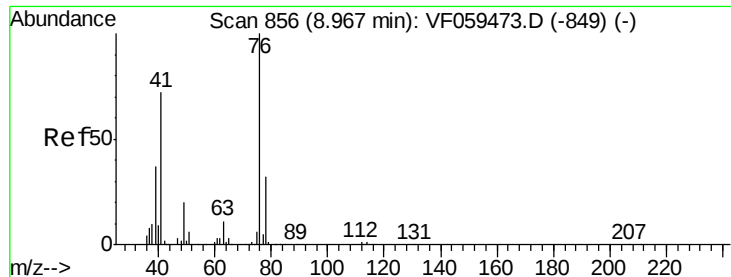


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 75.496 ug/l

RT: 8.97 min Scan# 856

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

Instrument :

MSVOA_F

ClientSampleId :

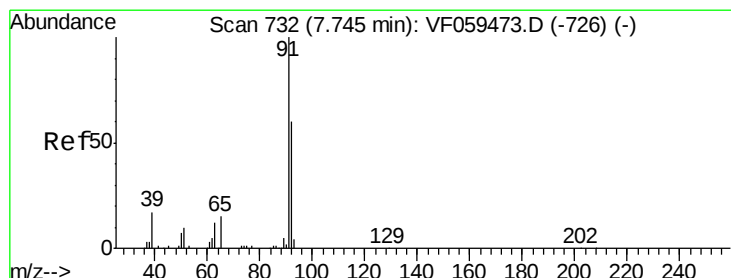
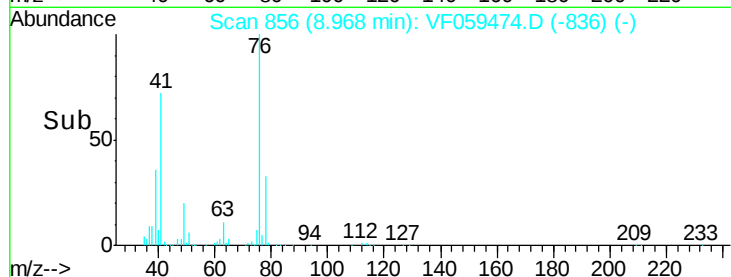
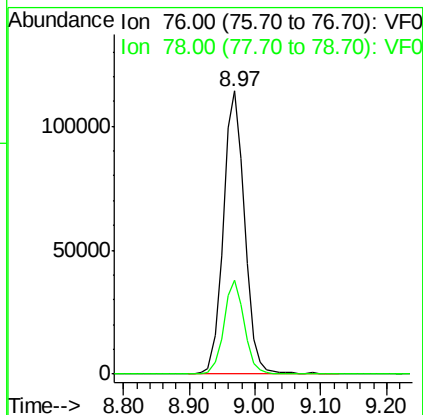
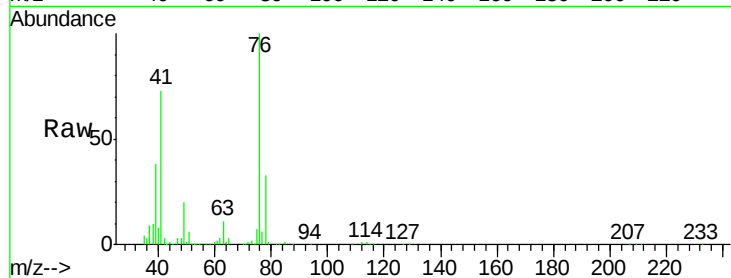
VSTDIC075

Tgt Ion: 76 Resp: 259080

Ion Ratio Lower Upper

76 100

78 33.2 25.2 37.8



#58

2-Chloroethyl Vinyl ether

Concen: 404.393 ug/l

RT: 7.75 min Scan# 732

Delta R.T. 0.00 min

Lab File: VF059474.D

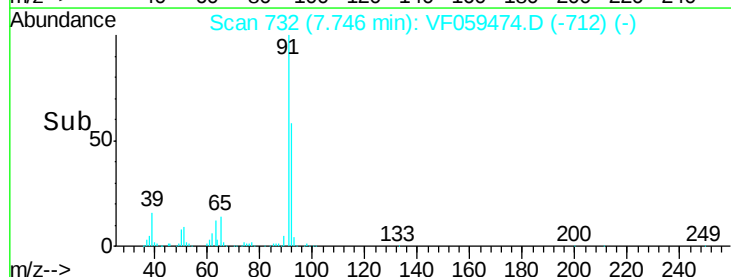
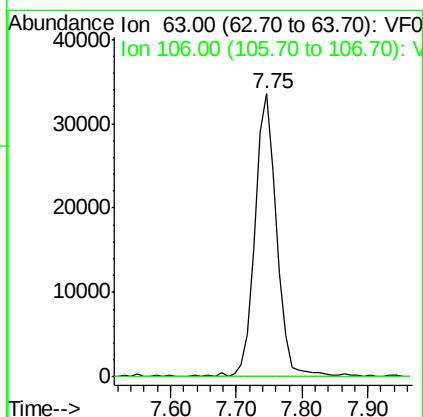
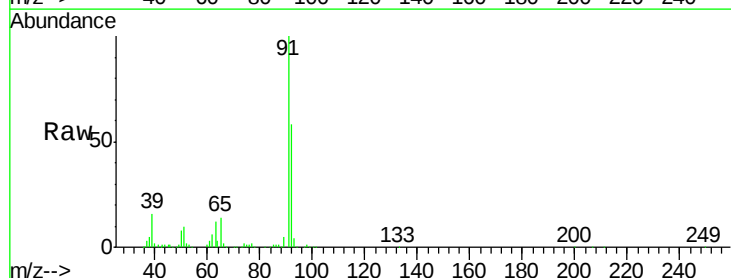
Acq: 7 Jul 2018 3:54

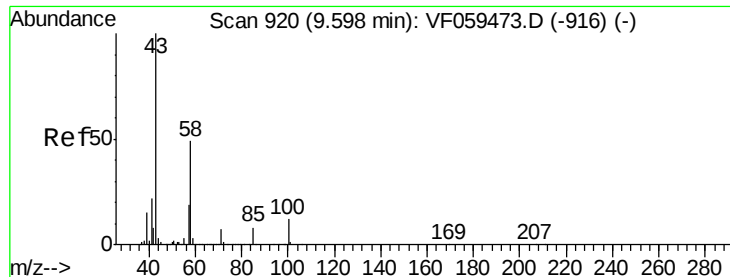
Tgt Ion: 63 Resp: 77659

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

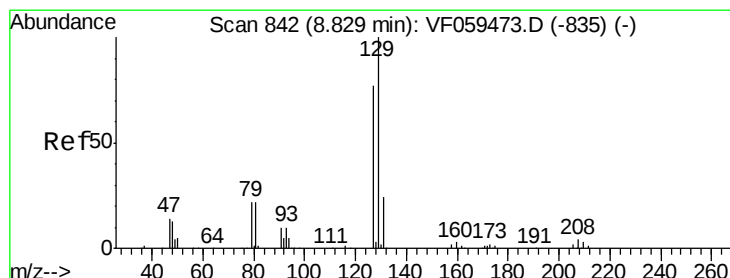
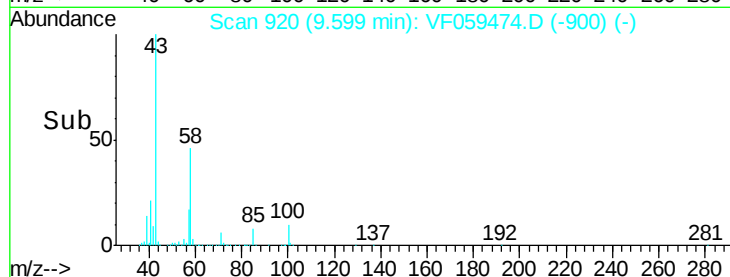
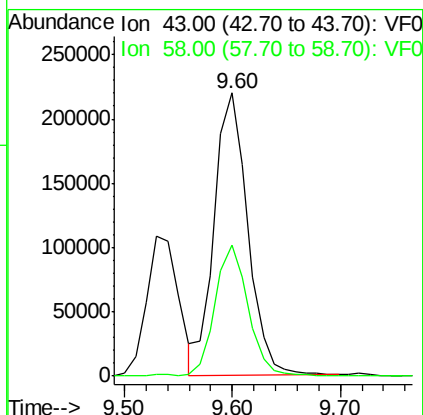
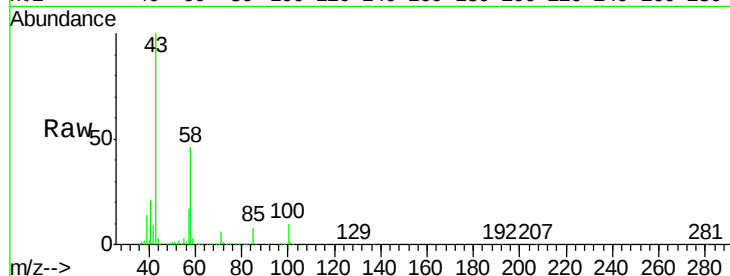




#59
2-Hexanone
Concen: 303.470 ug/l
RT: 9.60 min Scan# 920
Delta R.T. 0.00 min
Lab File: VF059474.D
Acq: 7 Jul 2018 3:54

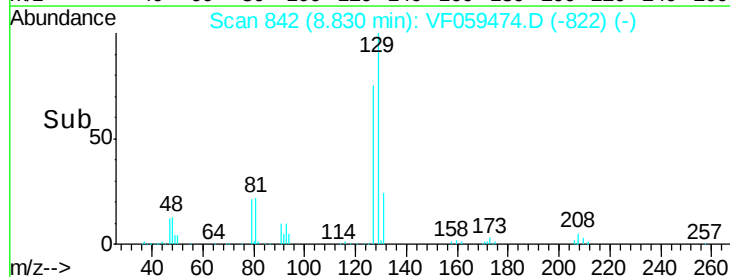
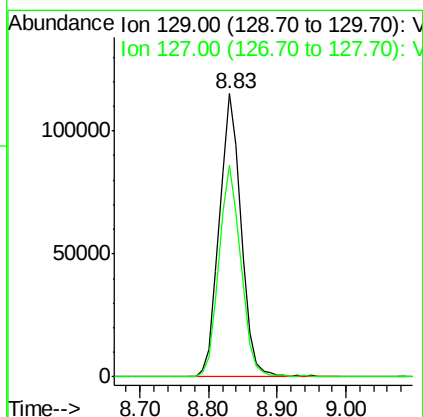
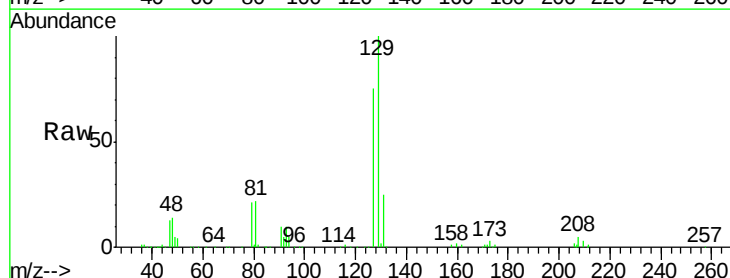
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

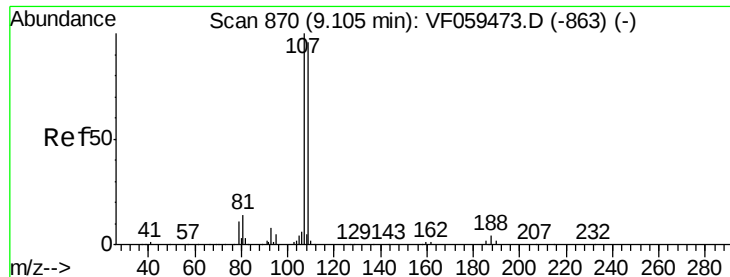
Tgt Ion: 43 Resp: 473588
Ion Ratio Lower Upper
43 100
58 46.4 22.4 67.2



#60
Dibromochloromethane
Concen: 81.426 ug/l
RT: 8.83 min Scan# 842
Delta R.T. 0.00 min
Lab File: VF059474.D
Acq: 7 Jul 2018 3:54

Tgt Ion: 129 Resp: 253903
Ion Ratio Lower Upper
129 100
127 74.9 38.8 116.3





#61

1,2-Dibromoethane

Concen: 75.902 ug/l

RT: 9.11 min Scan# 870

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

Instrument :

MSVOA_F

ClientSampleId :

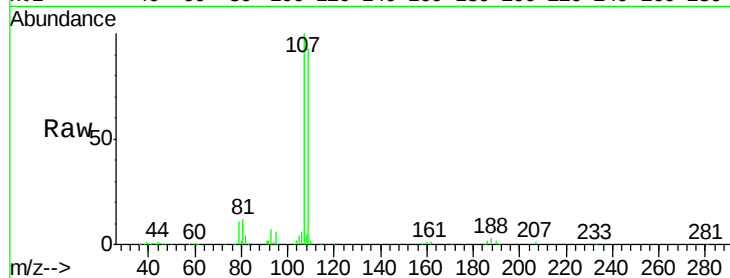
VSTDIC075

Tgt Ion: 107 Resp: 184626

Ion Ratio Lower Upper

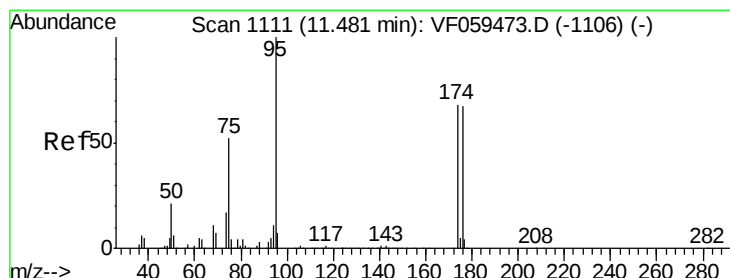
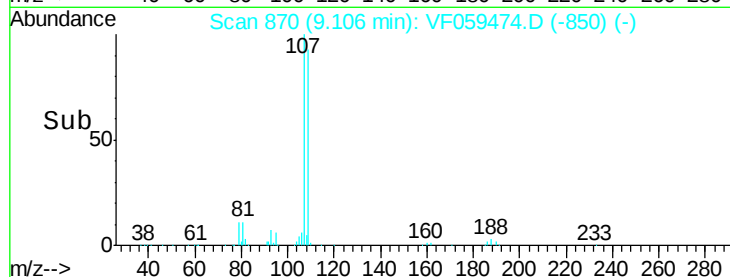
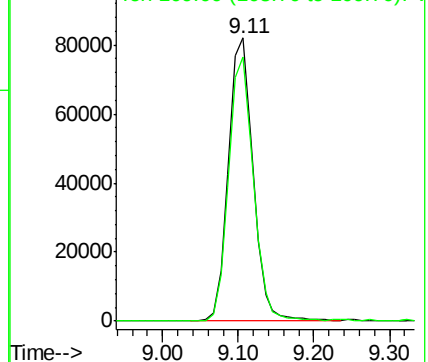
107 100

109 93.4 76.7 115.1



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 79.655 ug/l

RT: 11.48 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

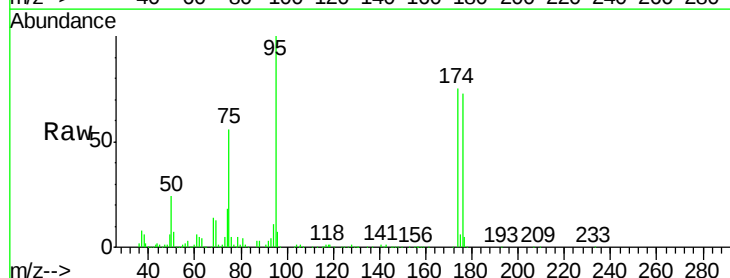
Tgt Ion: 95 Resp: 298898

Ion Ratio Lower Upper

95 100

174 75.1 0.0 137.0

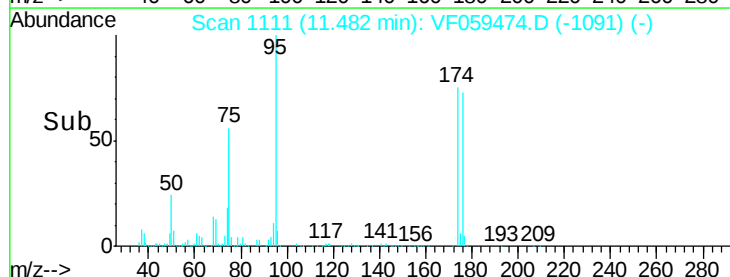
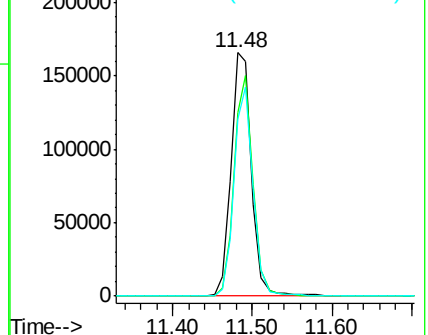
176 72.8 0.0 133.8

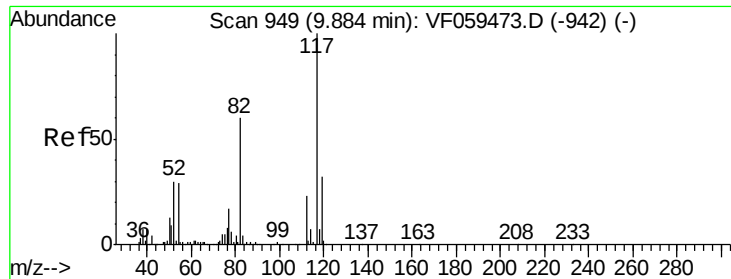


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

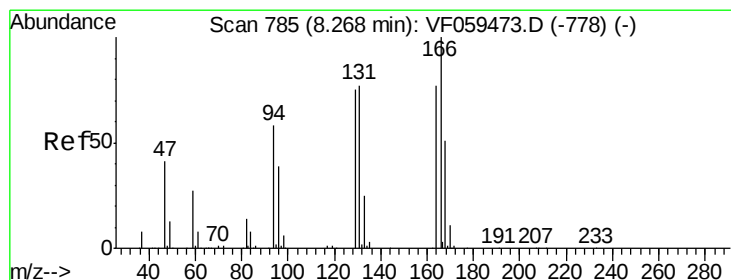
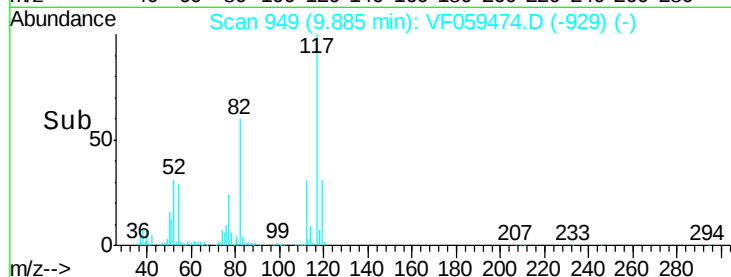
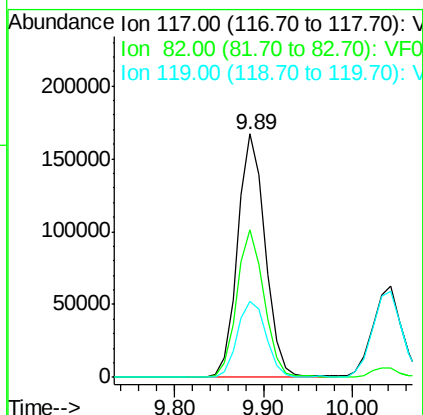
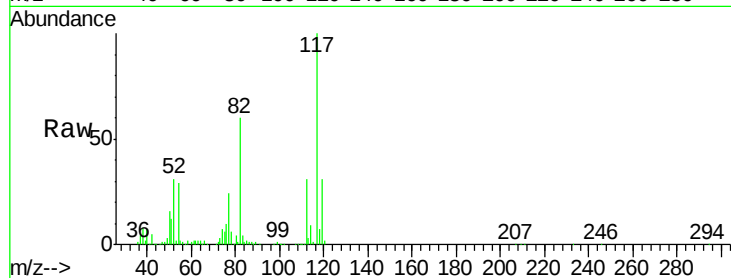




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.89 min Scan# 949
Delta R.T. 0.00 min
Lab File: VF059474.D
Acq: 7 Jul 2018 3:54

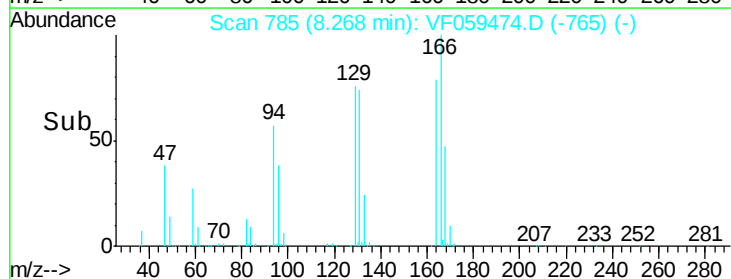
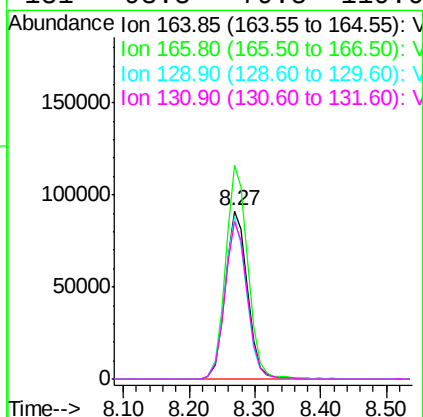
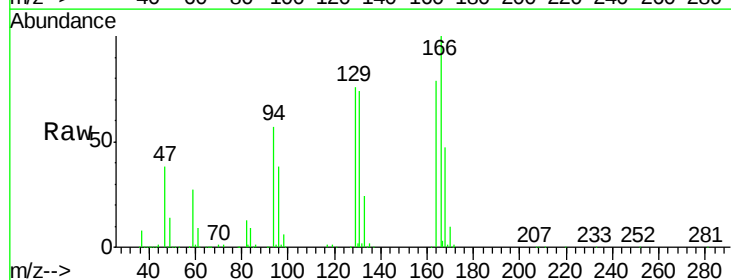
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

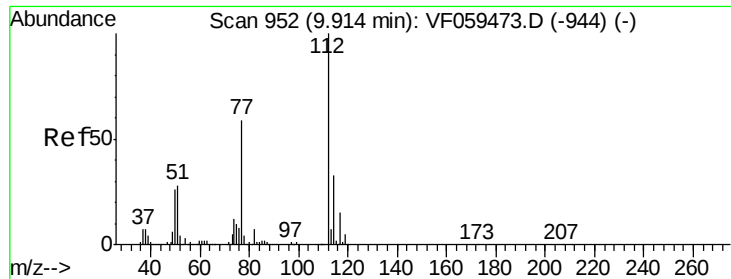
Tgt Ion:117 Resp: 360885
Ion Ratio Lower Upper
117 100
82 60.5 48.2 72.4
119 30.9 25.7 38.5



#64
Tetrachloroethene
Concen: 86.891 ug/l
RT: 8.27 min Scan# 785
Delta R.T. 0.00 min
Lab File: VF059474.D
Acq: 7 Jul 2018 3:54

Tgt Ion:164 Resp: 215160
Ion Ratio Lower Upper
164 100
166 127.3 103.5 155.3
129 96.6 77.6 116.4
131 93.8 79.8 119.6





#65

Chlorobenzene

Concen: 72.908 ug/l

RT: 9.90 min Scan# 951

Delta R.T. -0.01 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

Instrument :

MSVOA_F

ClientSampleId :

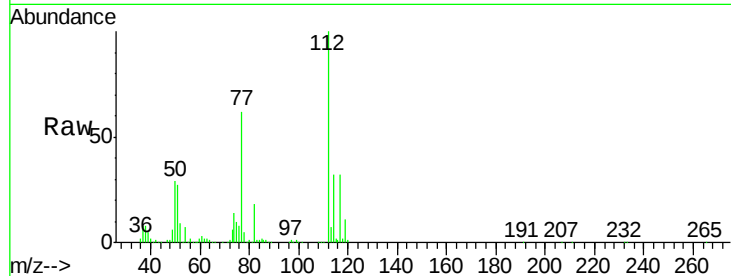
VSTDIC075

Tgt Ion:112 Resp: 498281

Ion Ratio Lower Upper

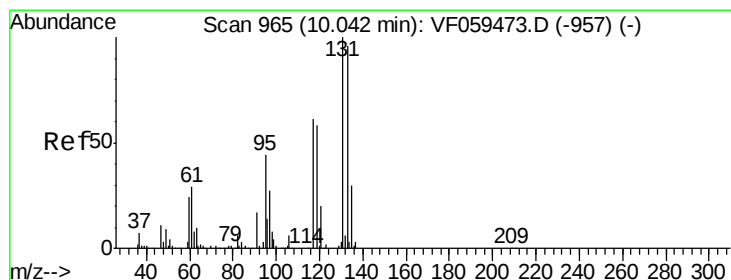
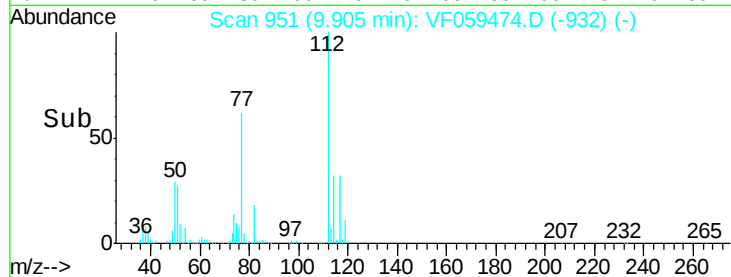
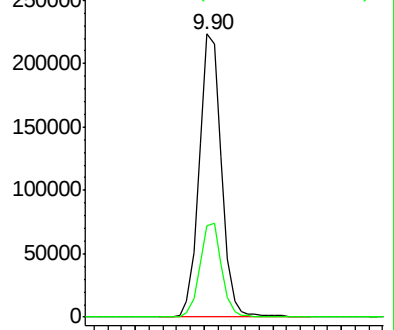
112 100

114 32.2 26.2 39.2



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: 75.860 ug/l

RT: 10.04 min Scan# 965

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

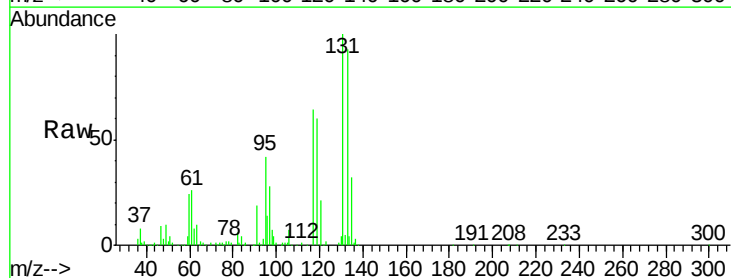
Tgt Ion:131 Resp: 225895

Ion Ratio Lower Upper

131 100

133 93.2 48.1 144.3

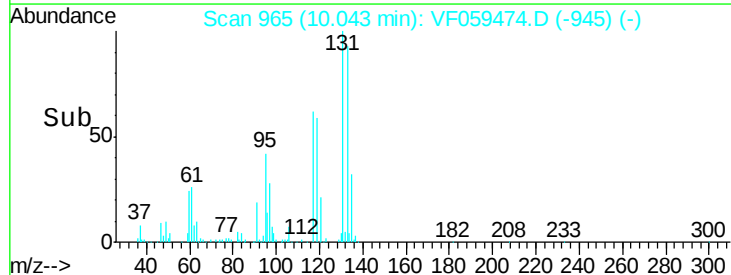
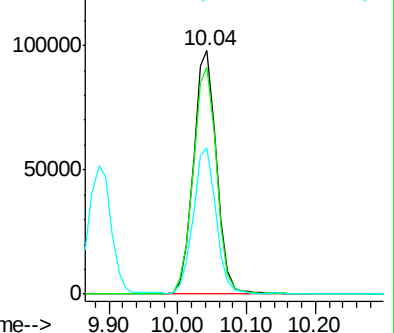
119 60.0 29.3 87.8

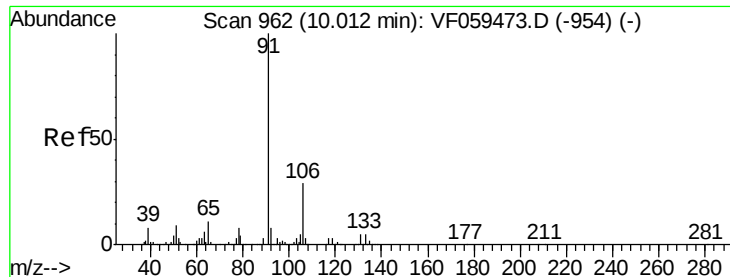


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#67

Ethyl Benzene

Concen: 73.360 ug/l

RT: 10.00 min Scan# 961

Delta R.T. -0.01 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

Instrument :

MSVOA_F

ClientSampleId :

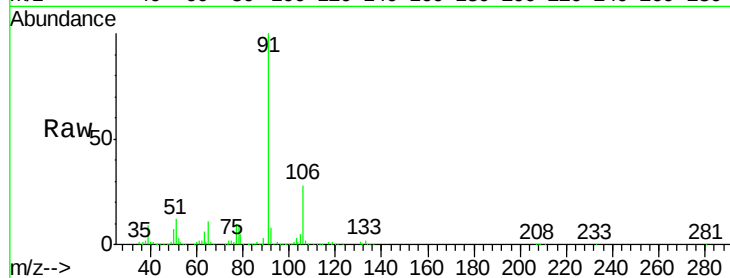
VSTDIC075

Tgt Ion: 91 Resp: 854089

Ion Ratio Lower Upper

91 100

106 28.0 23.0 34.6



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V

600000

400000

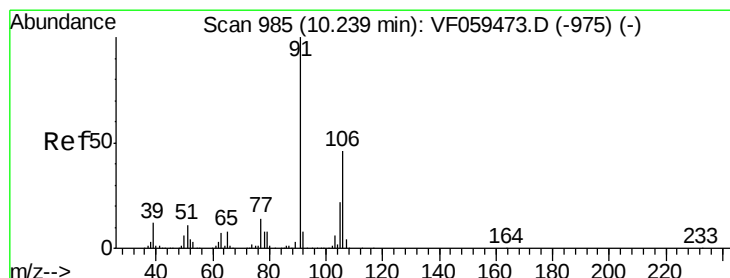
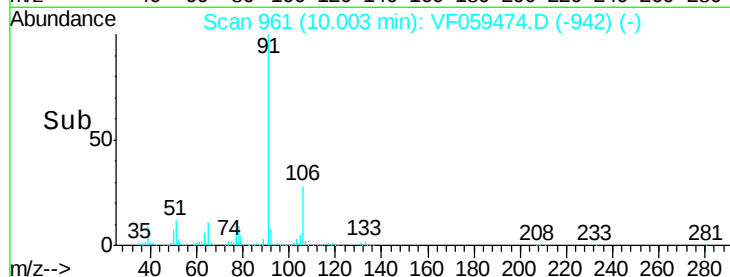
200000

0

10.00

Time-->

9.90 10.00 10.10 10.20



#68

m/p-Xylenes

Concen: 140.307 ug/l

RT: 10.24 min Scan# 985

Delta R.T. 0.00 min

Lab File: VF059474.D

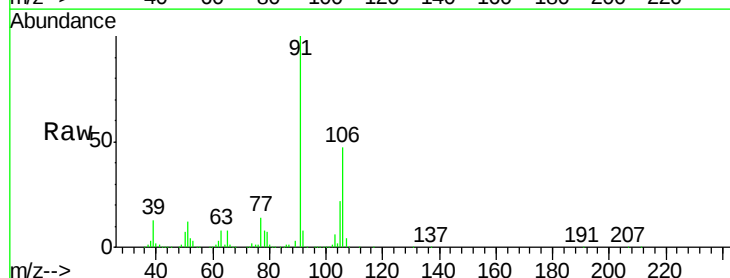
Acq: 7 Jul 2018 3:54

Tgt Ion: 106 Resp: 577079

Ion Ratio Lower Upper

106 100

91 212.9 173.5 260.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

600000

400000

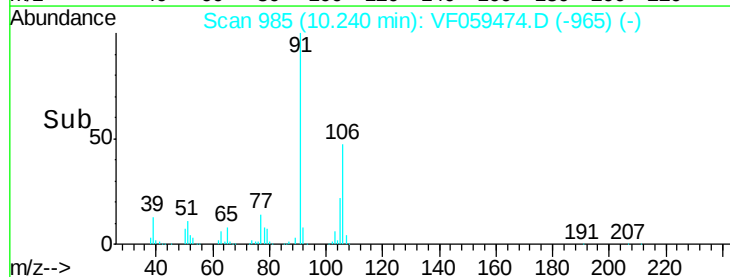
200000

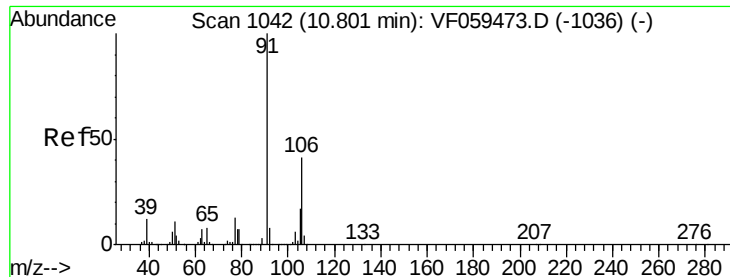
0

10.24

Time-->

10.20 10.30

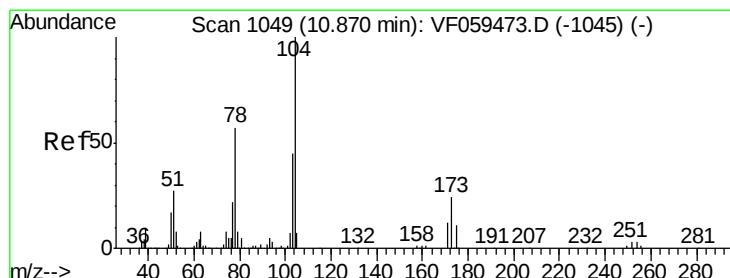
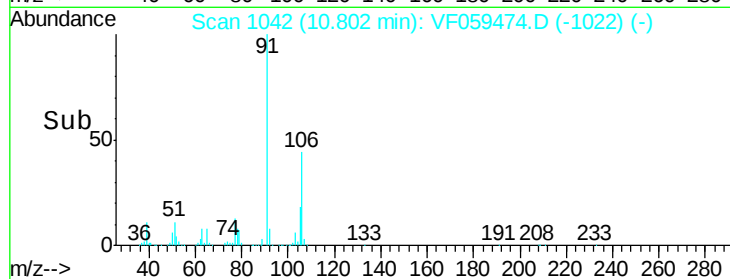
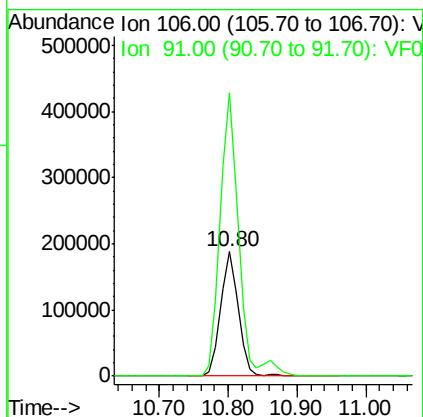
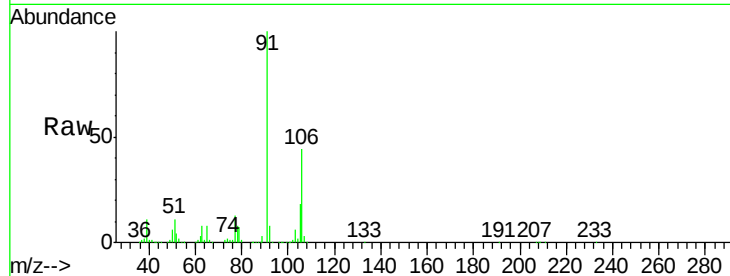




#69
o-Xylene
Concen: 73.521 ug/l
RT: 10.80 min Scan# 1042
Delta R.T. 0.00 min
Lab File: VF059474.D
Acq: 7 Jul 2018 3:54

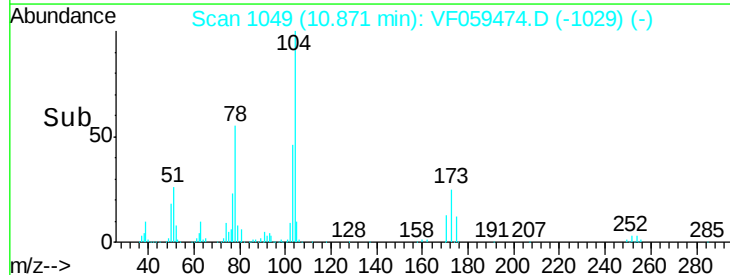
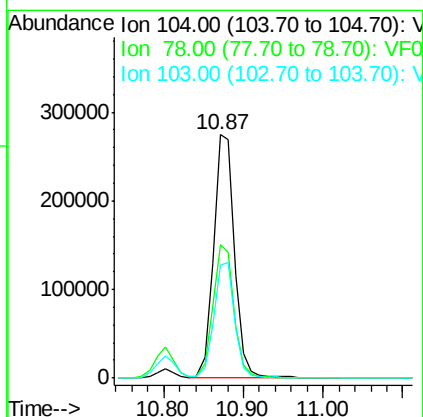
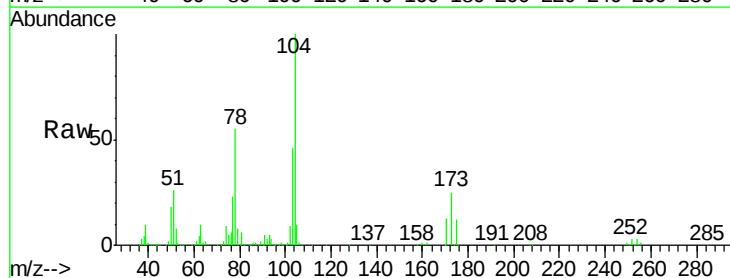
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

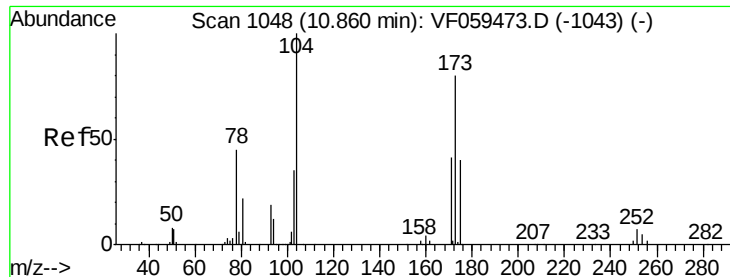
Tgt Ion:106 Resp: 337421
Ion Ratio Lower Upper
106 100
91 227.7 121.8 365.3



#70
Styrene
Concen: 72.567 ug/l
RT: 10.87 min Scan# 1049
Delta R.T. 0.00 min
Lab File: VF059474.D
Acq: 7 Jul 2018 3:54

Tgt Ion:104 Resp: 508112
Ion Ratio Lower Upper
104 100
78 54.7 46.2 69.2
103 46.3 36.8 55.2





#71

Bromoform

Concen: 77.998 ug/l

RT: 10.86 min Scan# 1048

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

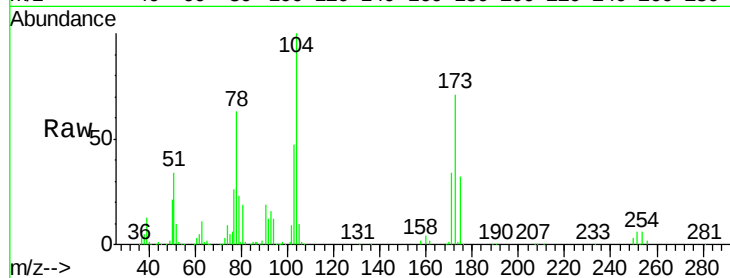
Tgt Ion:173 Resp: 158460

Ion Ratio Lower Upper

173 100

175 45.6 24.9 74.8

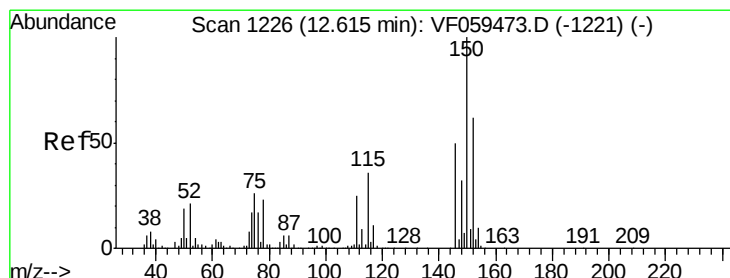
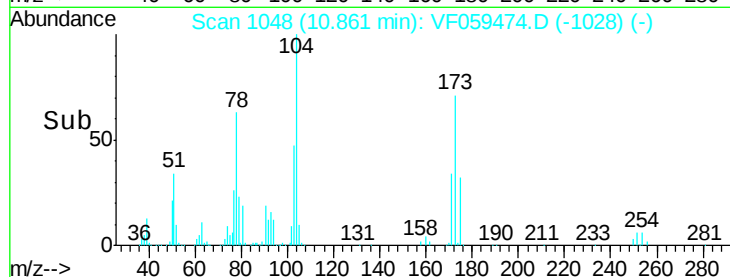
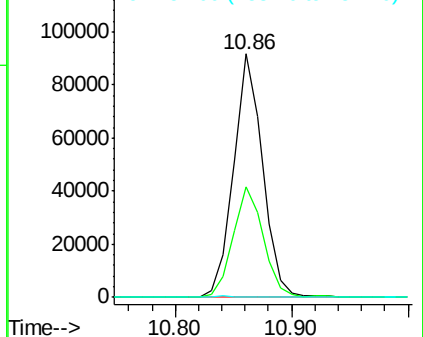
254 0.0 0.0 0.0



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: 12.62 min Scan# 1226

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

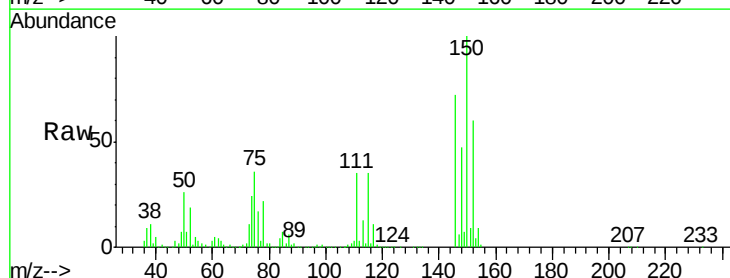
Tgt Ion:152 Resp: 226068

Ion Ratio Lower Upper

152 100

115 57.8 28.7 86.3

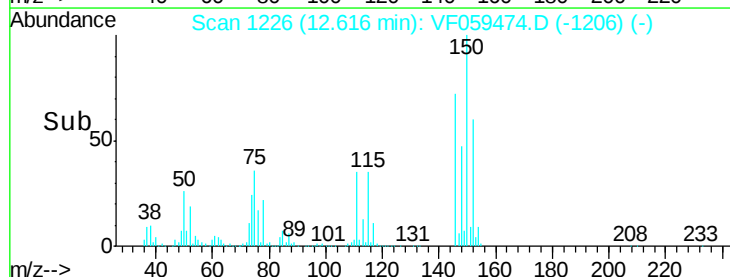
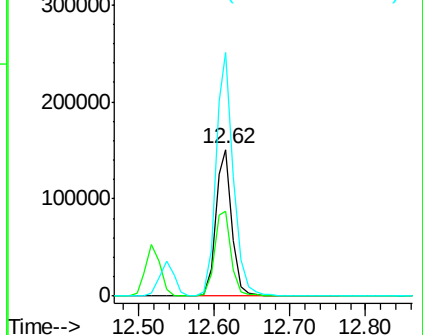
150 166.1 0.0 323.8

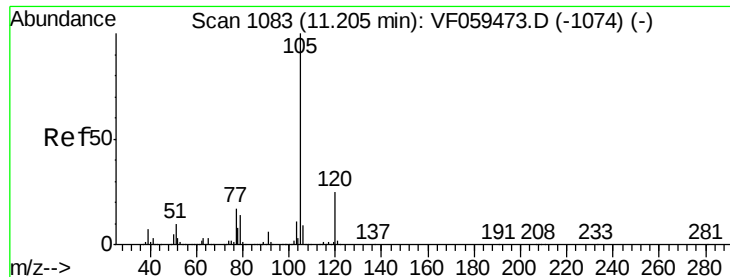


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 70.889 ug/l

RT: 11.21 min Scan# 1083

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

Instrument :

MSVOA_F

ClientSampleId :

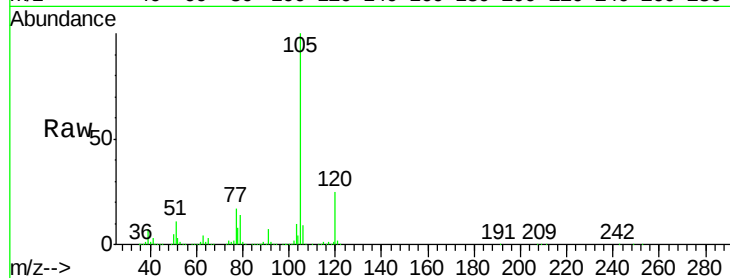
VSTDIC075

Tgt Ion: 105 Resp: 953920

Ion Ratio Lower Upper

105 100

120 25.5 12.4 37.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

600000

500000

400000

300000

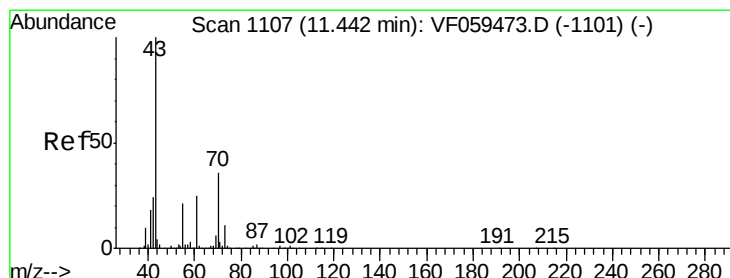
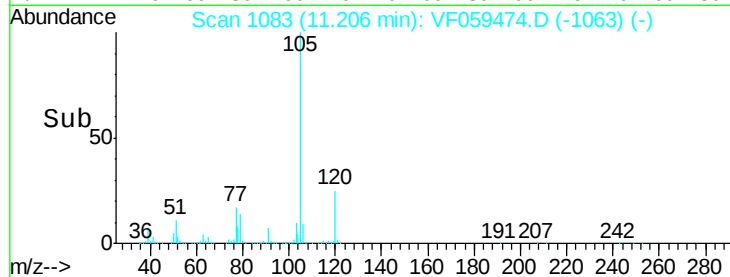
200000

100000

0

11.10 11.20 11.30

Time-->



#74

N-ethyl acetate

Concen: 66.334 ug/l

RT: 11.44 min Scan# 1107

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

Tgt Ion: 43 Resp: 315291

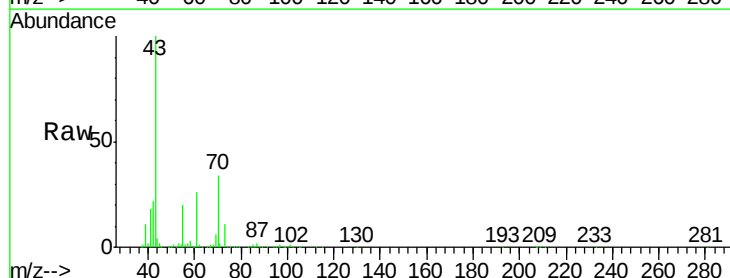
Ion Ratio Lower Upper

43 100

70 33.8 28.7 43.1

55 19.7 16.6 24.8

61 25.6 20.1 30.1



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

300000

250000

200000

150000

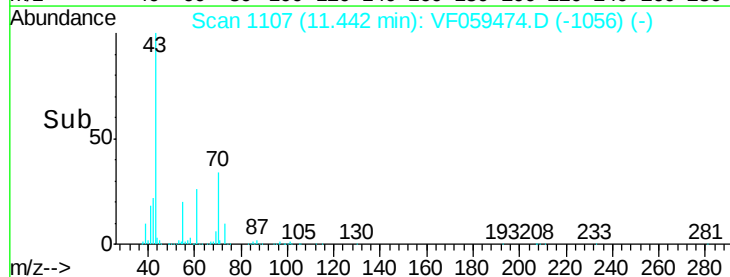
100000

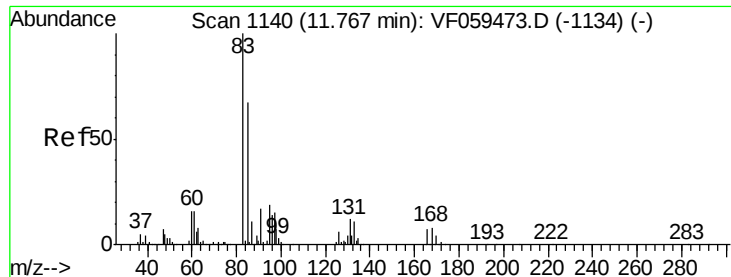
50000

0

11.30 11.40 11.50 11.60

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 64.884 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

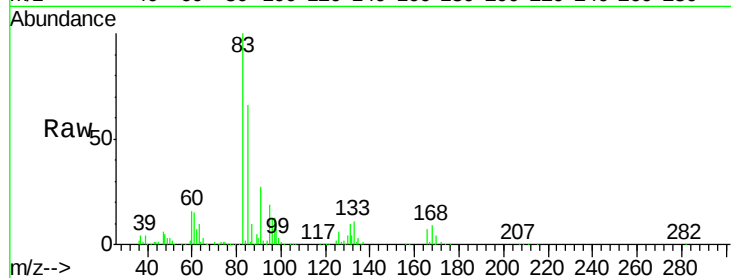
Tgt Ion: 83 Resp: 215077

Ion Ratio Lower Upper

83 100

131 10.2 6.0 18.0

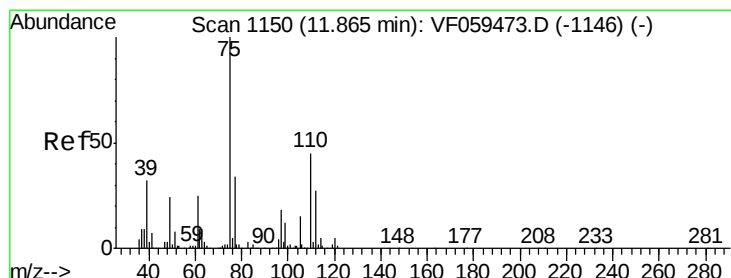
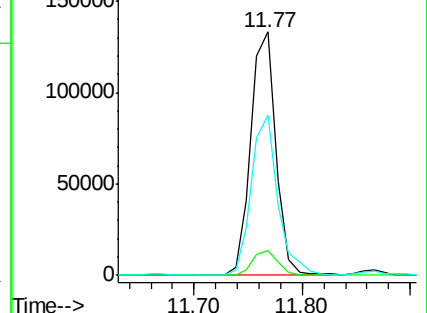
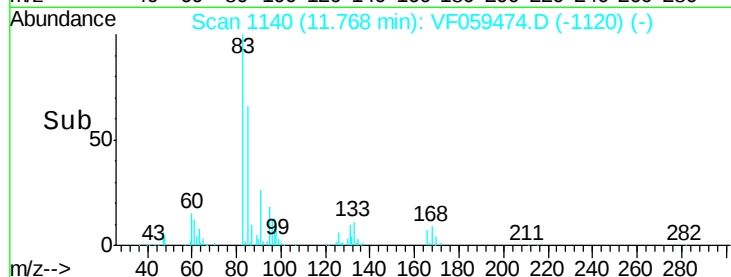
85 66.1 33.7 101.1



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: 68.066 ug/l

RT: 11.87 min Scan# 1150

Delta R.T. 0.00 min

Lab File: VF059474.D

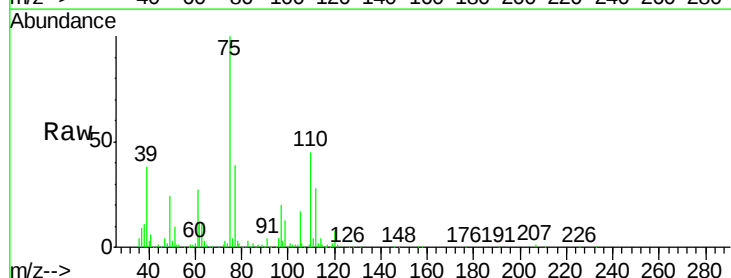
Acq: 7 Jul 2018 3:54

Tgt Ion: 75 Resp: 173077

Ion Ratio Lower Upper

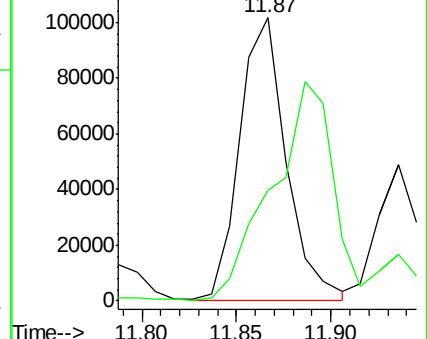
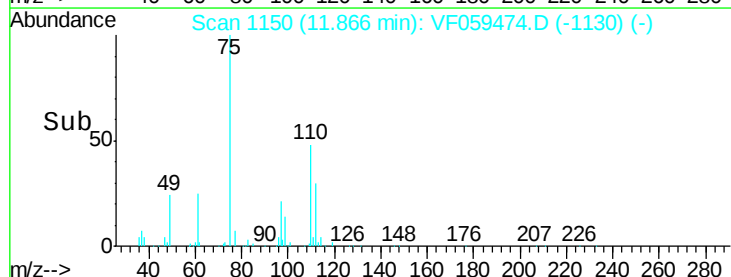
75 100

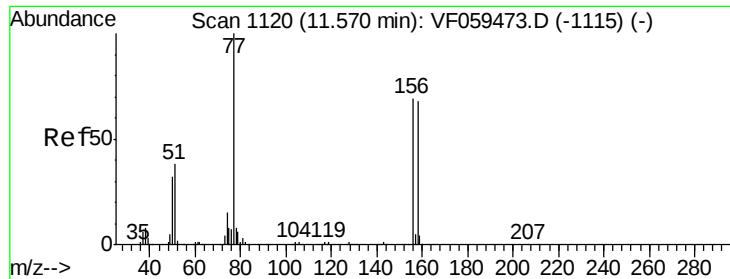
77 39.1 16.9 50.6



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 69.283 ug/l

RT: 11.57 min Scan# 1120

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

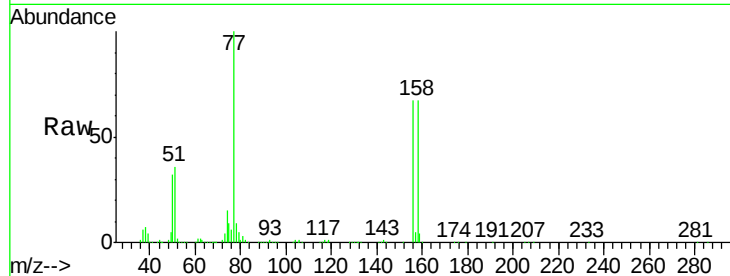
Tgt Ion:156 Resp: 256553

Ion Ratio Lower Upper

156 100

77 149.6 72.4 217.2

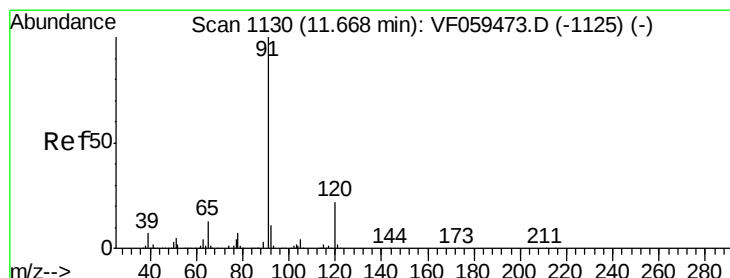
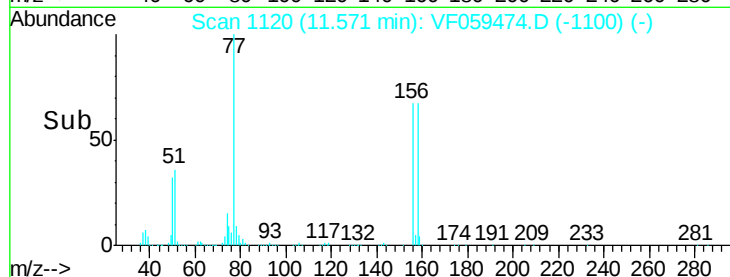
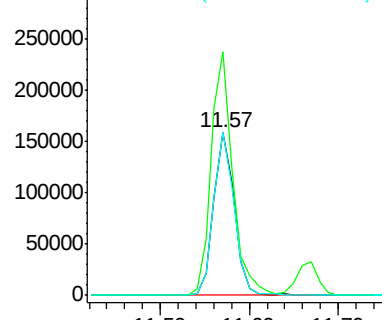
158 99.9 49.5 148.3



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: 69.551 ug/l

RT: 11.67 min Scan# 1130

Delta R.T. 0.00 min

Lab File: VF059474.D

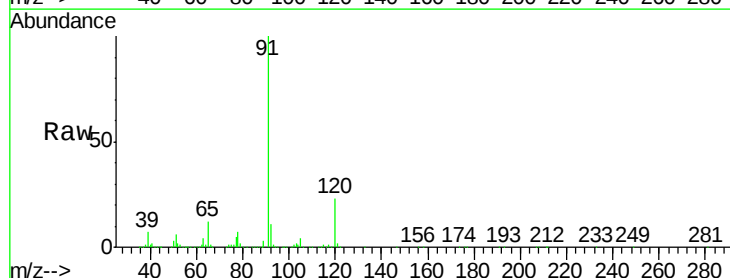
Acq: 7 Jul 2018 3:54

Tgt Ion: 91 Resp: 1123348

Ion Ratio Lower Upper

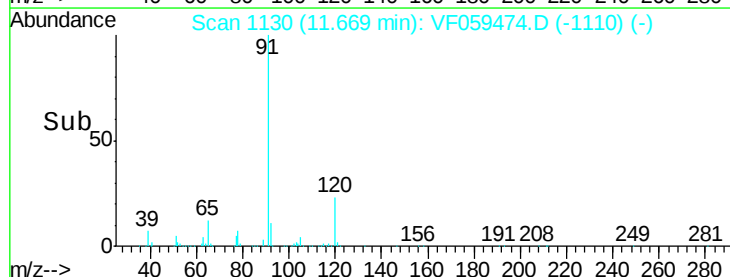
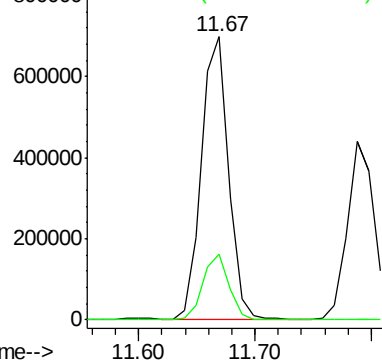
91 100

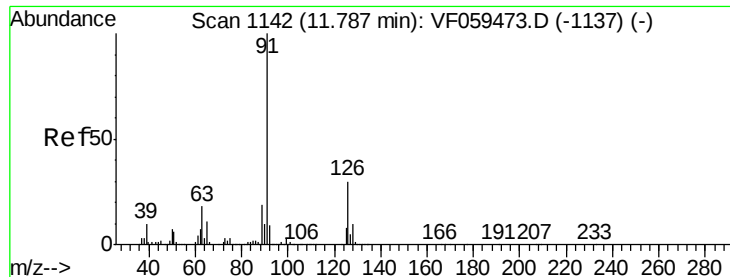
120 23.4 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

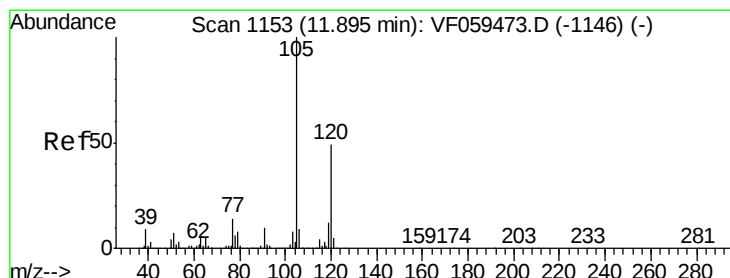
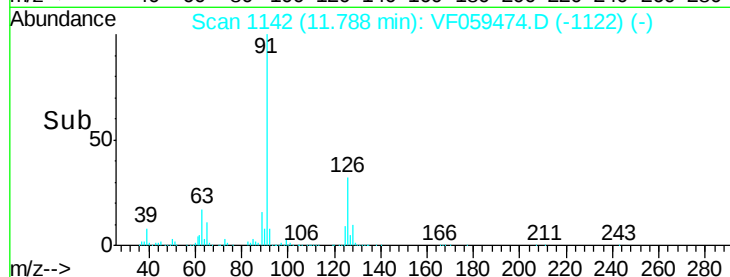
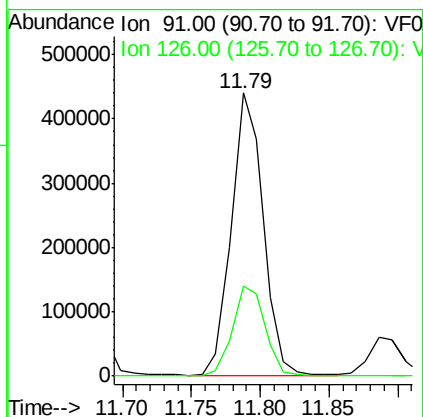
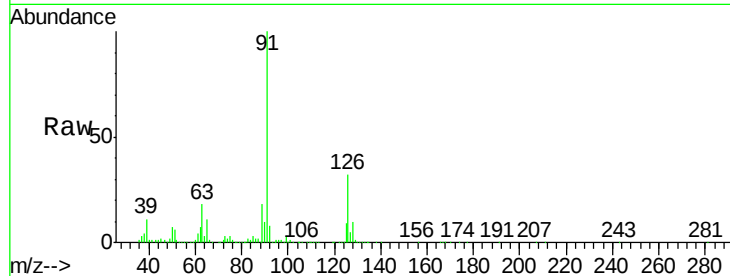




#79
 2-Chlorotoluene
 Concen: 71.019 ug/l
 RT: 11.79 min Scan# 1142
 Delta R.T. 0.00 min
 Lab File: VF059474.D
 Acq: 7 Jul 2018 3:54

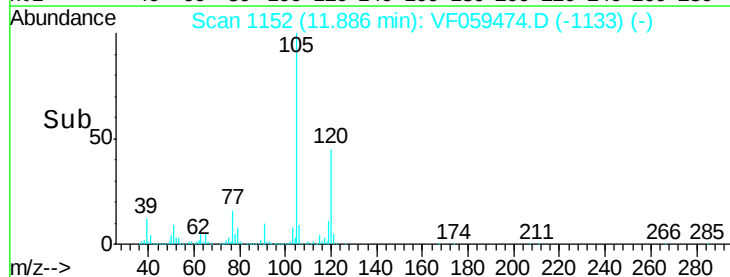
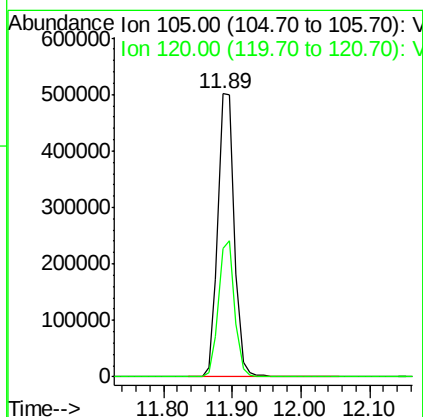
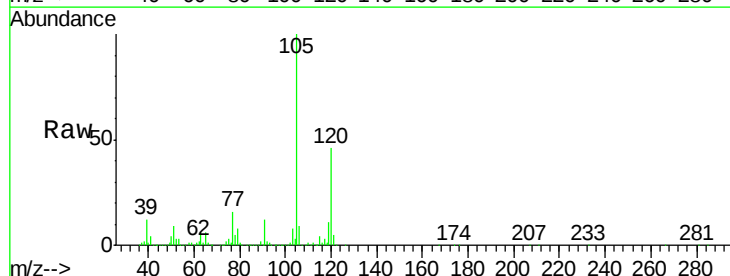
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

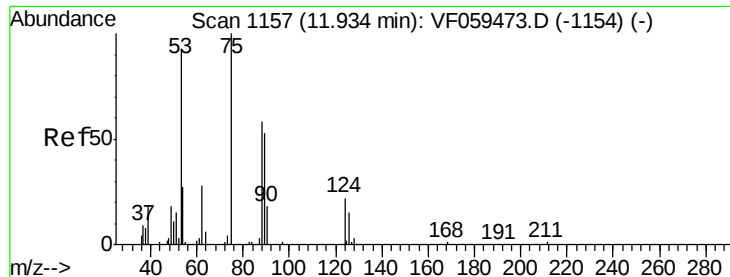
Tgt Ion: 91 Resp: 703493
 Ion Ratio Lower Upper
 91 100
 126 31.8 15.2 45.5



#80
 1,3,5-Trimethylbenzene
 Concen: 70.899 ug/l
 RT: 11.89 min Scan# 1152
 Delta R.T. -0.01 min
 Lab File: VF059474.D
 Acq: 7 Jul 2018 3:54

Tgt Ion: 105 Resp: 841270
 Ion Ratio Lower Upper
 105 100
 120 45.6 24.4 73.2





#81

trans-1,4-Dichloro-2-butene

Concen: 66.379 ug/l

RT: 11.94 min Scan# 1157

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

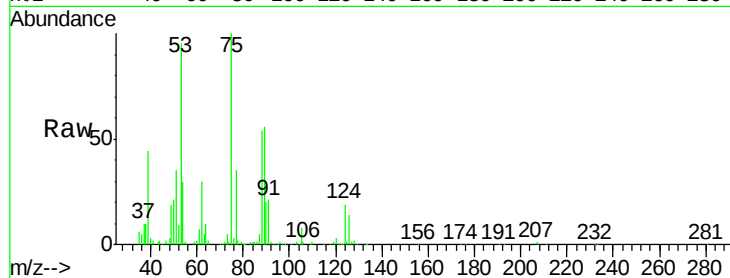
Tgt Ion: 75 Resp: 97876

Ion Ratio Lower Upper

75 100

53 95.1 79.0 118.6

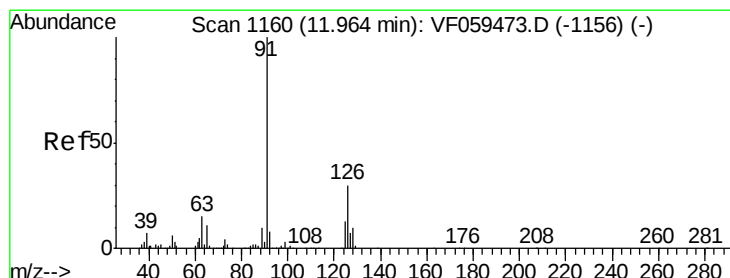
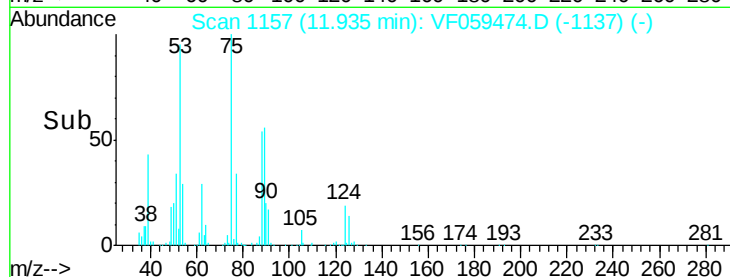
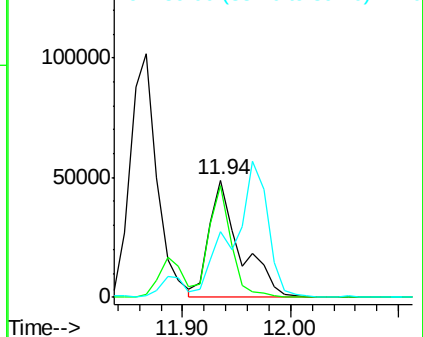
89 55.6 45.9 68.9



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: 71.172 ug/l

RT: 11.96 min Scan# 1160

Delta R.T. 0.00 min

Lab File: VF059474.D

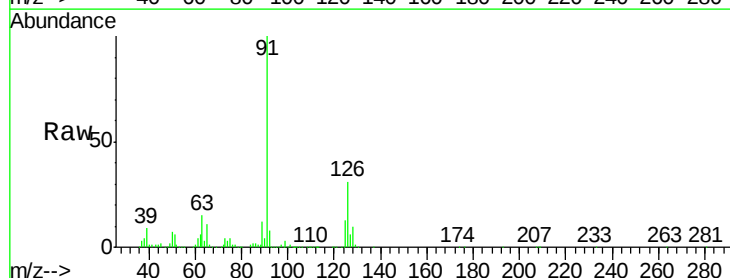
Acq: 7 Jul 2018 3:54

Tgt Ion: 91 Resp: 747411

Ion Ratio Lower Upper

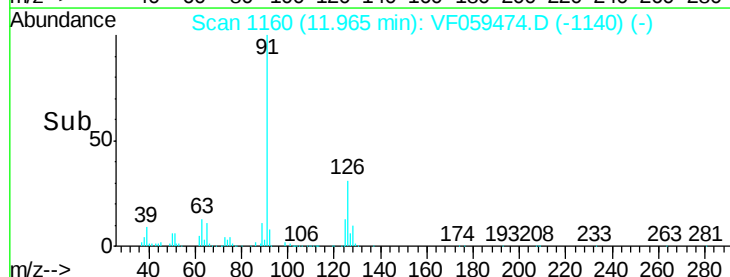
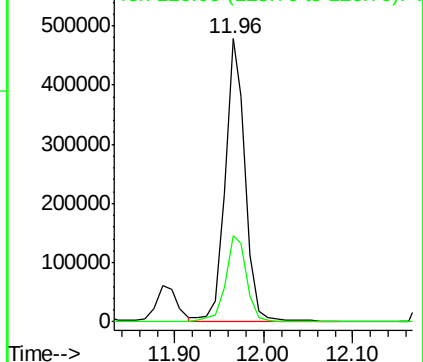
91 100

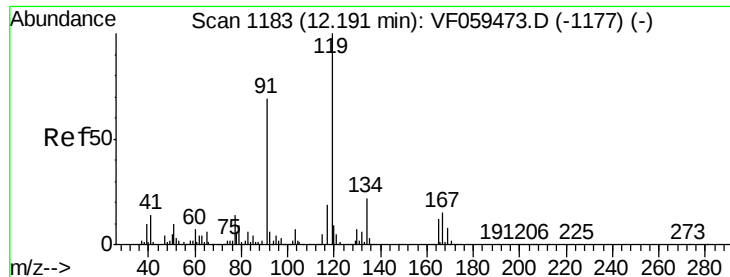
126 30.6 14.9 44.5



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V





#83

tert-Butylbenzene

Concen: 70.837 ug/l

RT: 12.19 min Scan# 1183

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

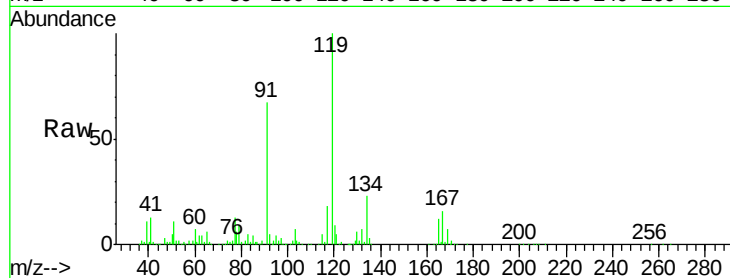
Tgt Ion:119 Resp: 831243

Ion Ratio Lower Upper

119 100

91 67.4 34.4 103.3

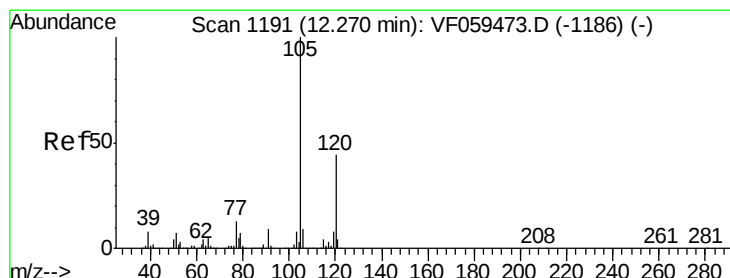
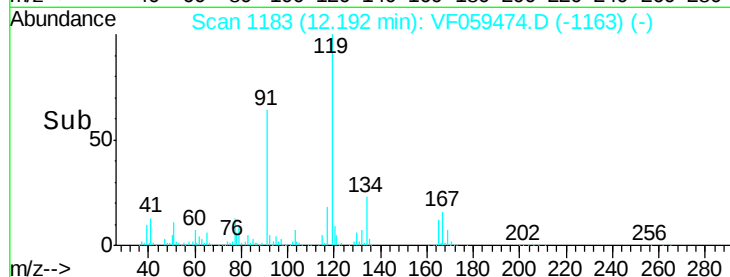
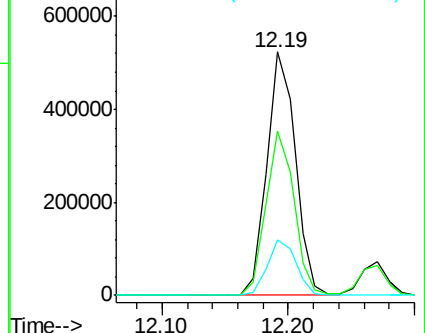
134 22.8 10.8 32.4



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 69.878 ug/l

RT: 12.27 min Scan# 1191

Delta R.T. 0.00 min

Lab File: VF059474.D

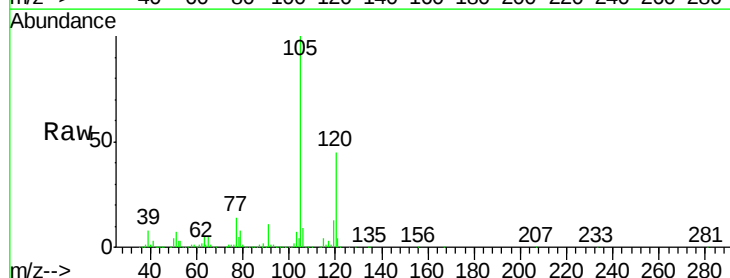
Acq: 7 Jul 2018 3:54

Tgt Ion:105 Resp: 865682

Ion Ratio Lower Upper

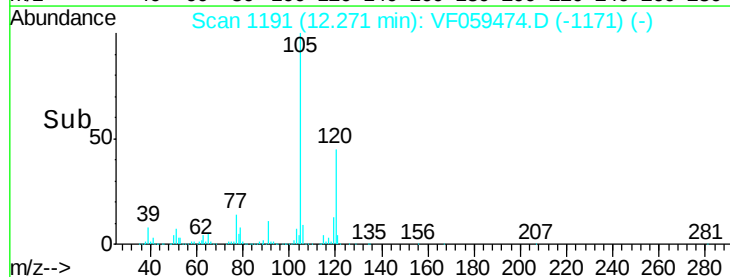
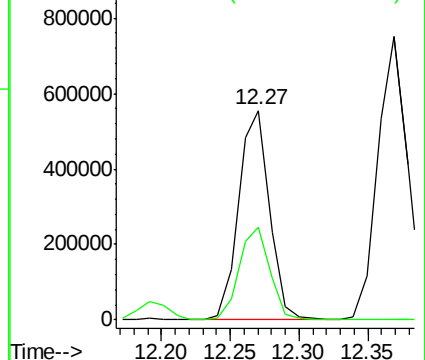
105 100

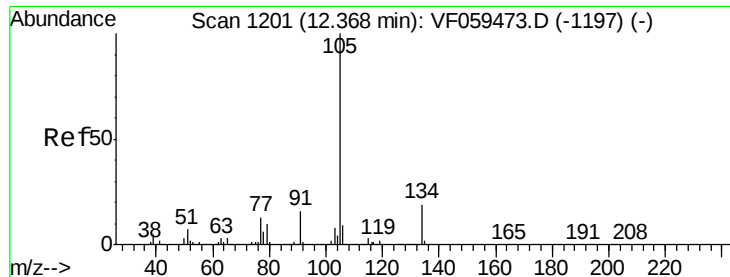
120 44.5 22.1 66.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

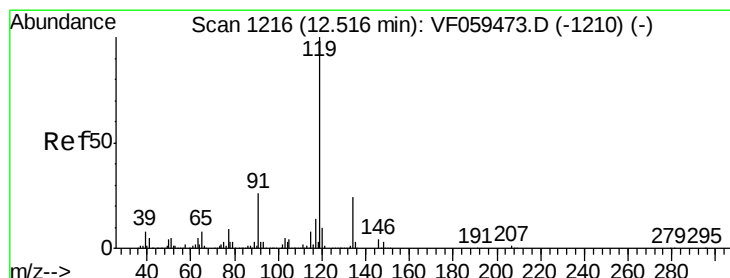
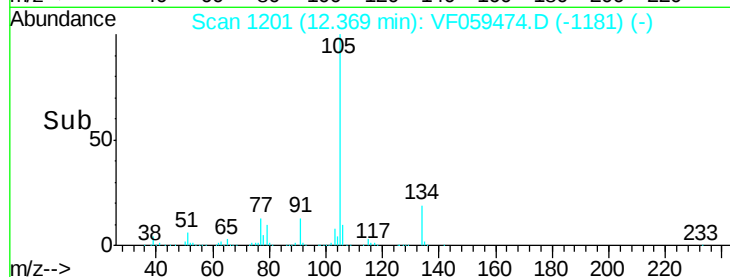
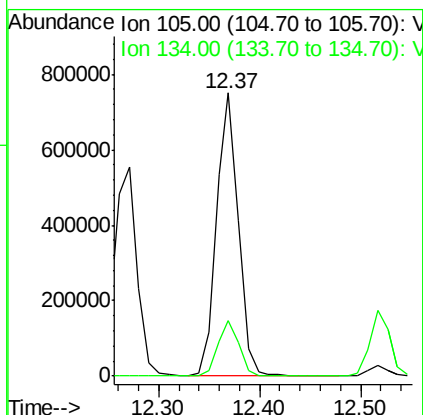
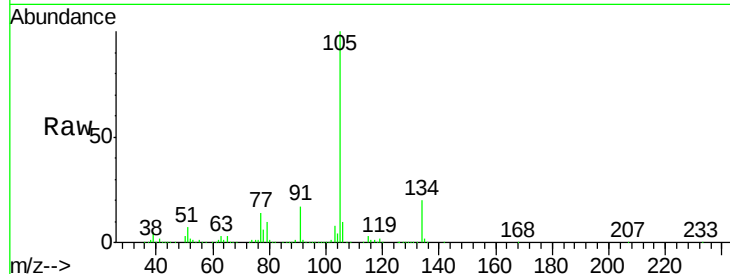




#85
 sec-Butylbenzene
 Concen: 72.164 ug/l
 RT: 12.37 min Scan# 1201
 Delta R.T. 0.00 min
 Lab File: VF059474.D
 Acq: 7 Jul 2018 3:54

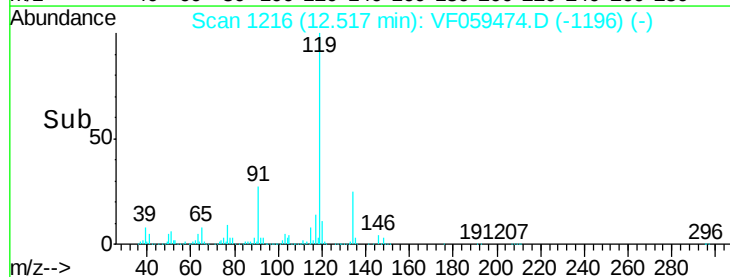
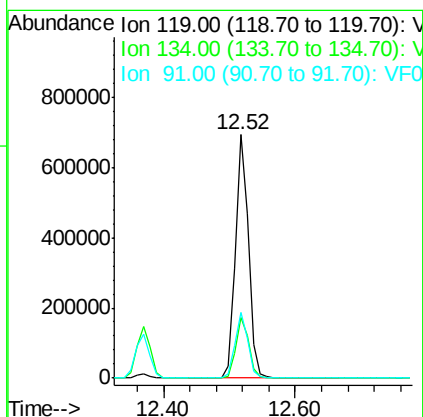
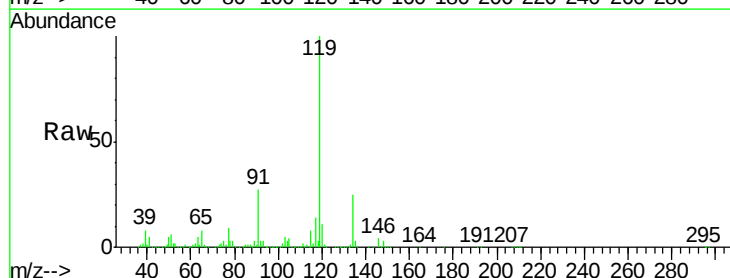
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

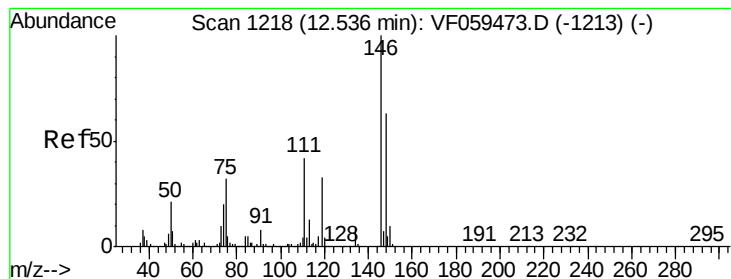
Tgt Ion:105 Resp: 1129641
 Ion Ratio Lower Upper
 105 100
 134 19.6 9.6 28.6



#86
 p-Isopropyltoluene
 Concen: 73.362 ug/l
 RT: 12.52 min Scan# 1216
 Delta R.T. 0.00 min
 Lab File: VF059474.D
 Acq: 7 Jul 2018 3:54

Tgt Ion:119 Resp: 966307
 Ion Ratio Lower Upper
 119 100
 134 25.1 12.2 36.4
 91 27.2 13.1 39.3





#87

1,3-Dichlorobenzene

Concen: 69.456 ug/l

RT: 12.54 min Scan# 1218

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

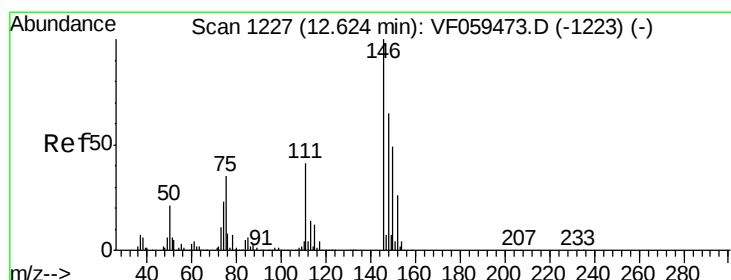
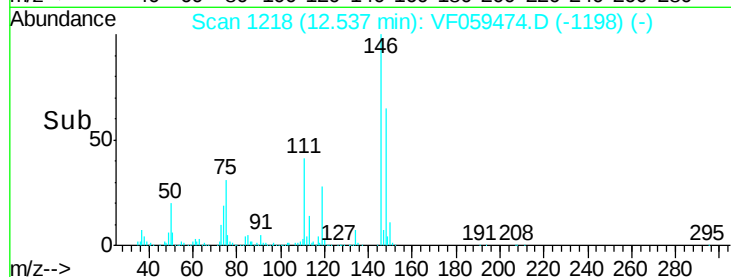
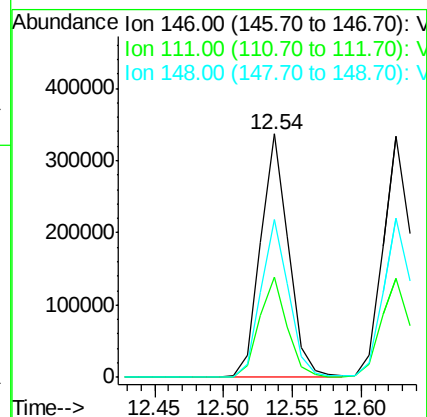
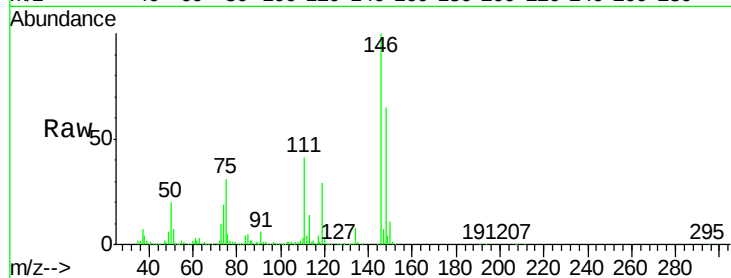
Tgt Ion:146 Resp: 478440

Ion Ratio Lower Upper

146 100

111 41.2 21.0 63.0

148 64.7 31.6 94.8



#88

1,4-Dichlorobenzene

Concen: 72.130 ug/l

RT: 12.63 min Scan# 1227

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

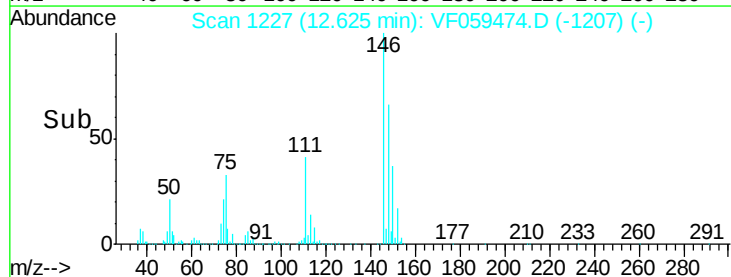
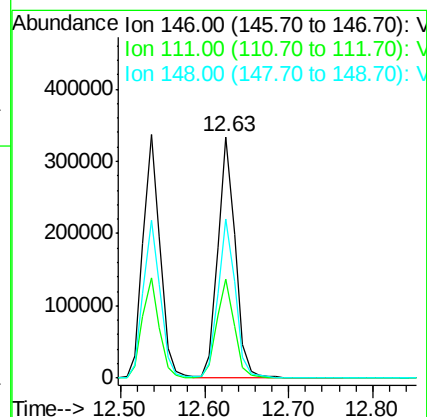
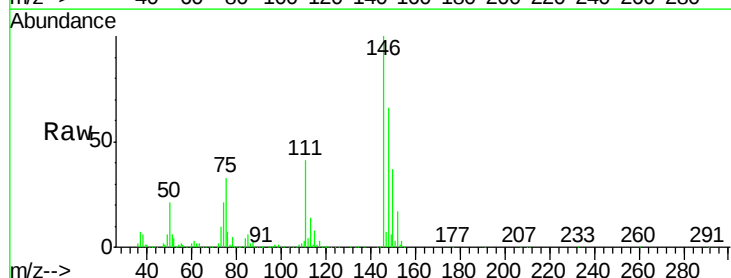
Tgt Ion:146 Resp: 482652

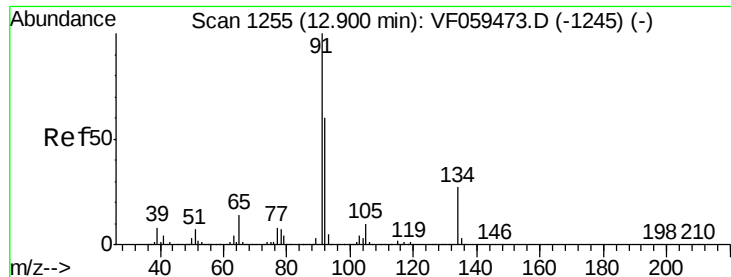
Ion Ratio Lower Upper

146 100

111 40.8 20.8 62.2

148 66.1 32.6 97.8





#89

n-Butylbenzene

Concen: 70.494 ug/l

RT: 12.90 min Scan# 1255

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

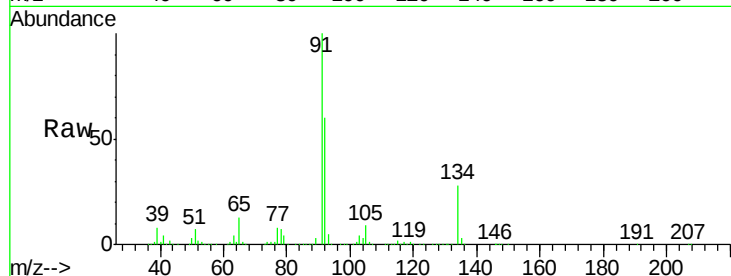
Tgt Ion: 91 Resp: 942759

Ion Ratio Lower Upper

91 100

92 59.7 30.0 90.1

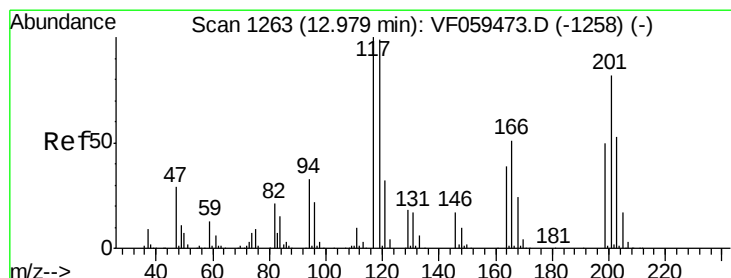
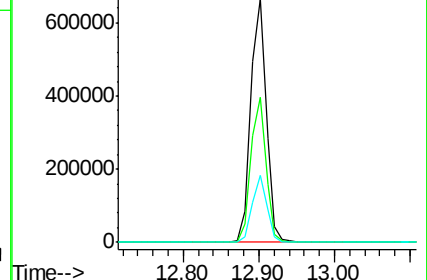
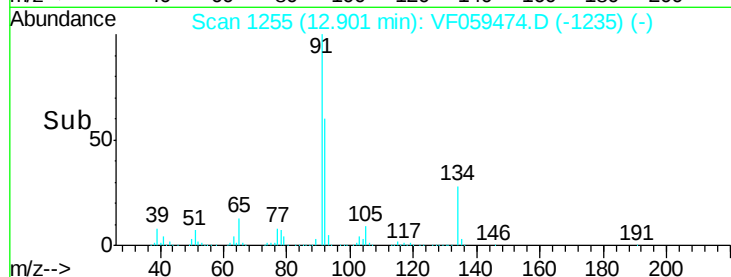
134 27.5 13.3 39.9



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: 74.747 ug/l

RT: 12.97 min Scan# 1262

Delta R.T. -0.01 min

Lab File: VF059474.D

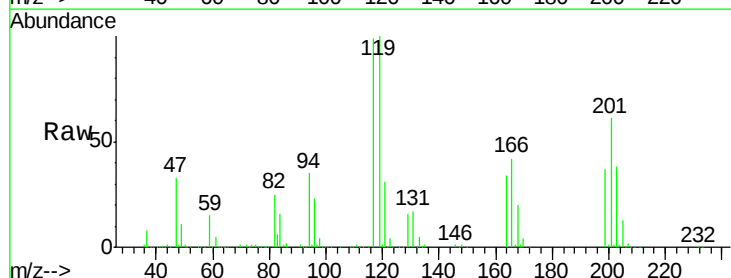
Acq: 7 Jul 2018 3:54

Tgt Ion: 117 Resp: 246097

Ion Ratio Lower Upper

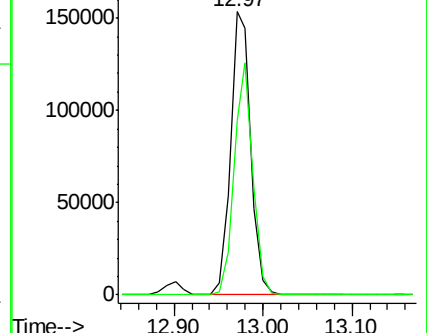
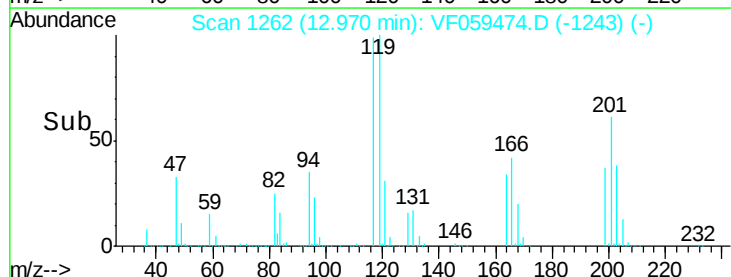
117 100

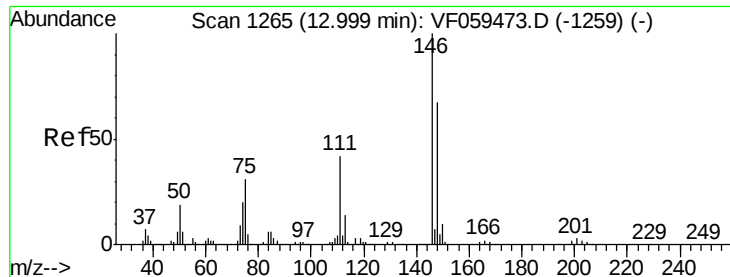
201 61.5 40.6 121.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V





#91

1,2-Dichlorobenzene

Concen: 73.146 ug/l

RT: 13.00 min Scan# 1265

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

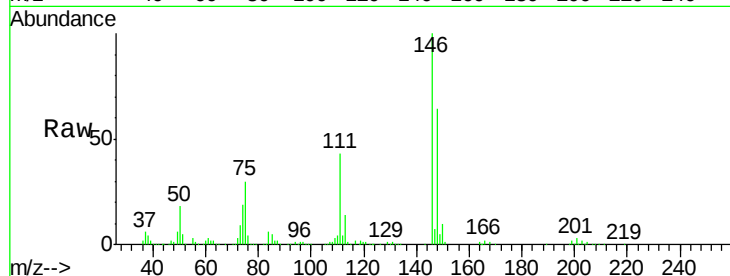
Tgt Ion:146 Resp: 493253

Ion Ratio Lower Upper

146 100

111 43.4 21.2 63.6

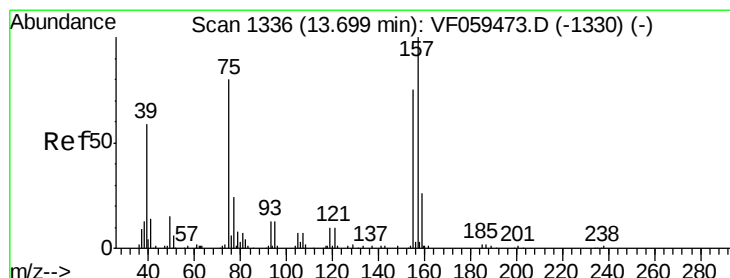
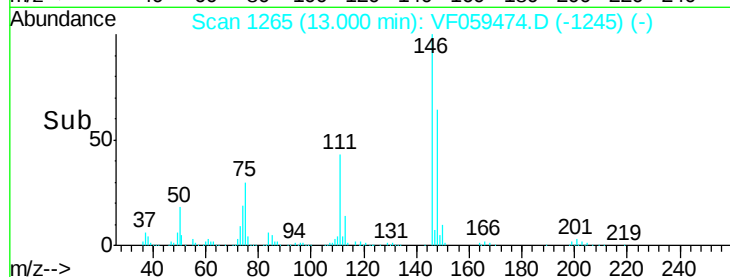
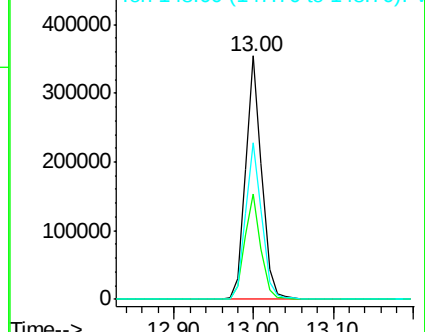
148 64.5 33.3 99.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 77.906 ug/l

RT: 13.70 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VF059474.D

Acq: 7 Jul 2018 3:54

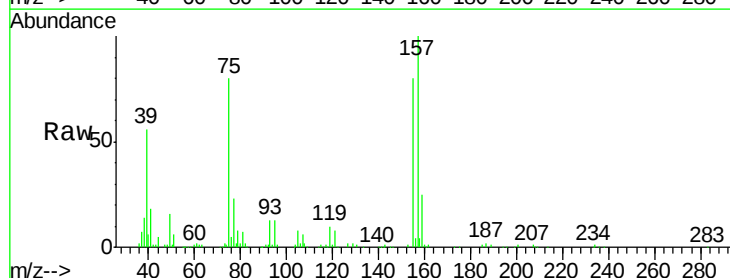
Tgt Ion: 75 Resp: 58548

Ion Ratio Lower Upper

75 100

155 100.5 47.3 141.8

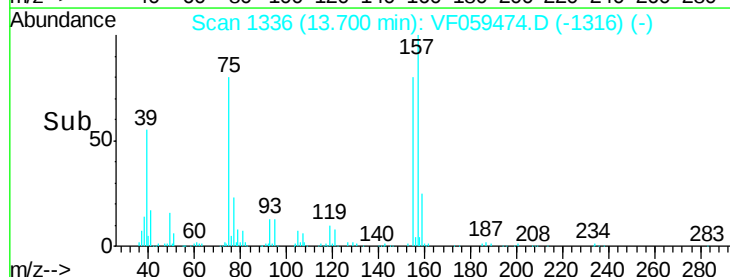
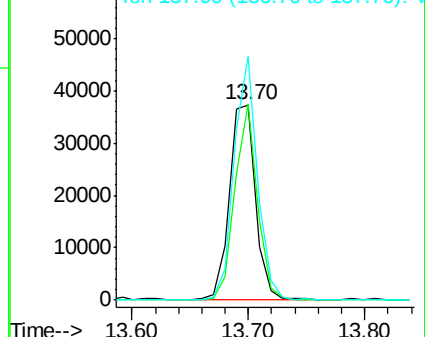
157 124.9 62.6 187.8

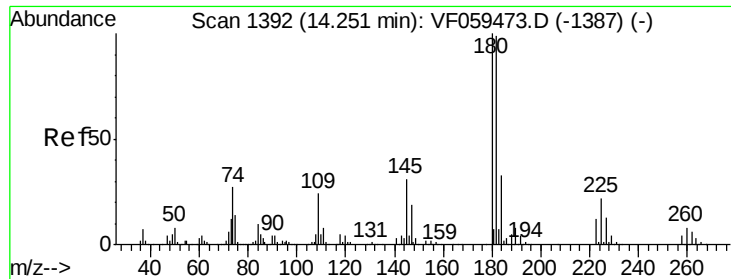


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

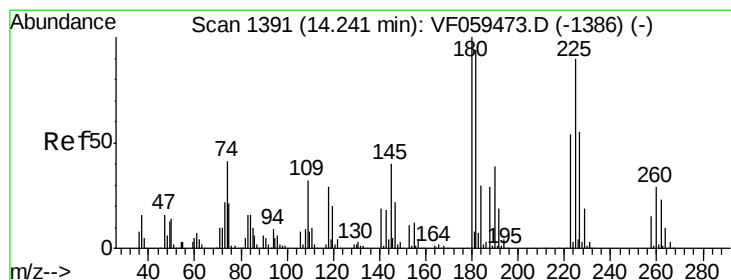
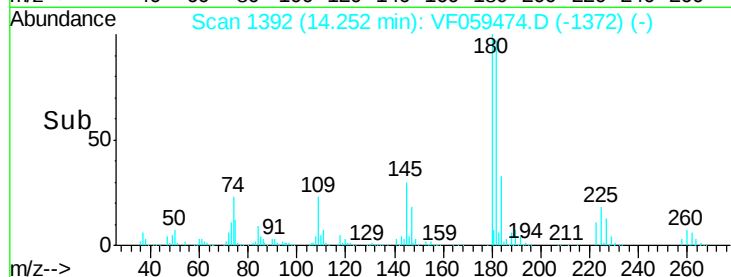
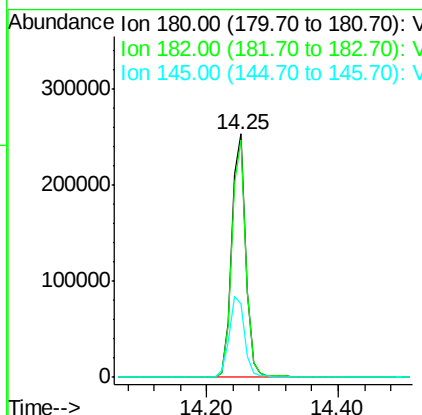
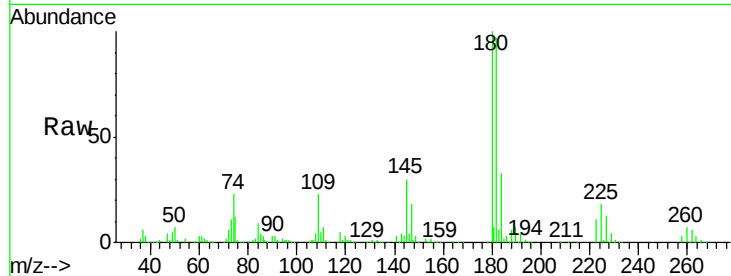




#93
 1,2,4-Trichlorobenzene
 Concen: 76.355 ug/l
 RT: 14.25 min Scan# 1392
 Delta R.T. 0.00 min
 Lab File: VF059474.D
 Acq: 7 Jul 2018 3:54

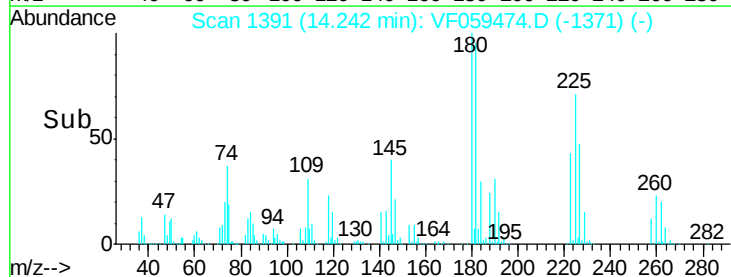
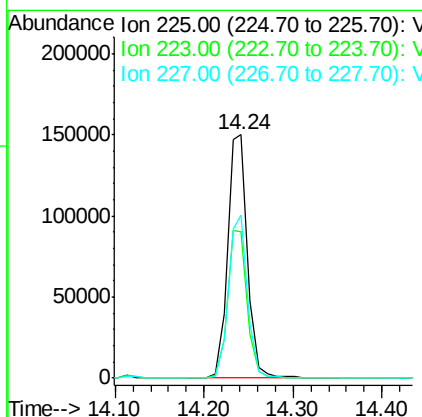
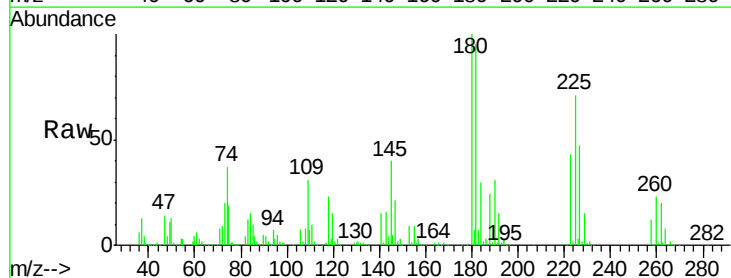
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

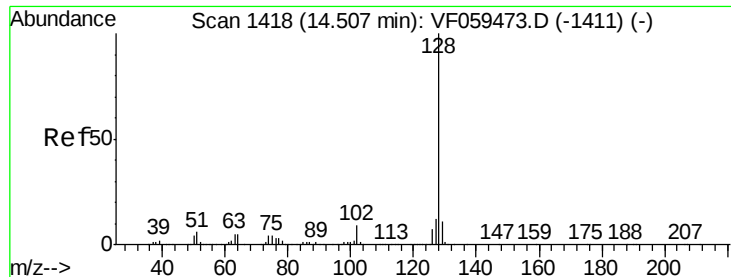
Tgt Ion:180 Resp: 382420
 Ion Ratio Lower Upper
 180 100
 182 97.3 49.5 148.7
 145 30.4 15.4 46.2



#94
 Hexachlorobutadiene
 Concen: 82.214 ug/l
 RT: 14.24 min Scan# 1391
 Delta R.T. 0.00 min
 Lab File: VF059474.D
 Acq: 7 Jul 2018 3:54

Tgt Ion:225 Resp: 236137
 Ion Ratio Lower Upper
 225 100
 223 60.4 30.1 90.5
 227 66.7 30.8 92.4

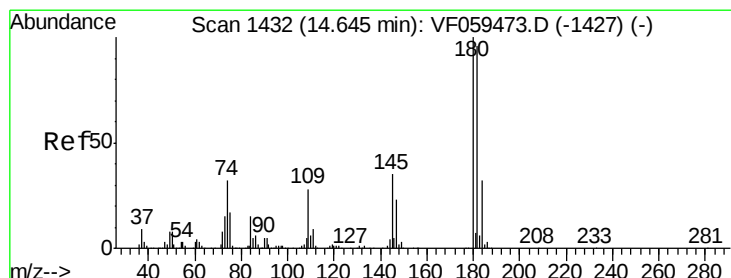
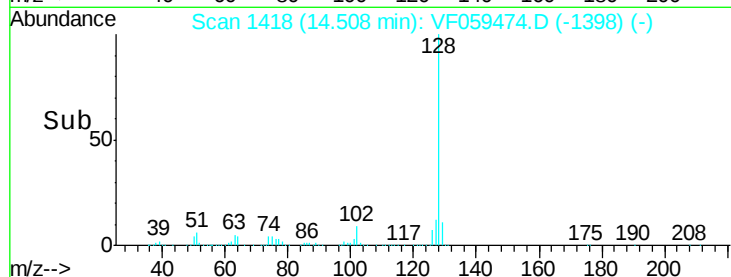
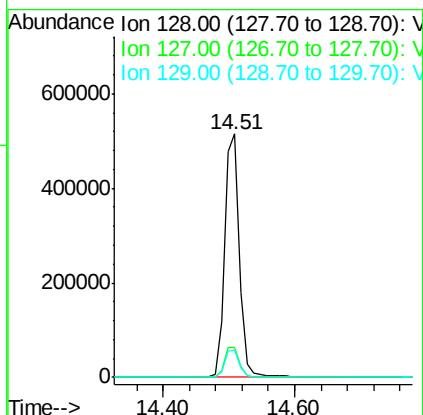
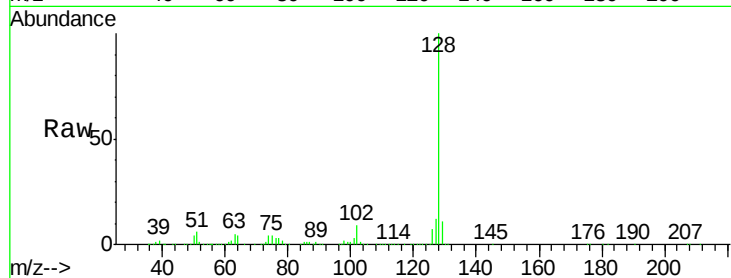




#95
Naphthalene
Concen: 76.960 ug/l
RT: 14.51 min Scan# 1418
Delta R.T. 0.00 min
Lab File: VF059474.D
Acq: 7 Jul 2018 3:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tgt Ion:128 Resp: 807261
Ion Ratio Lower Upper
128 100
127 12.0 9.9 14.9
129 11.4 9.0 13.6



#96
1,2,3-Trichlorobenzene
Concen: 75.012 ug/l
RT: 14.65 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VF059474.D
Acq: 7 Jul 2018 3:54

Tgt Ion:180 Resp: 357700
Ion Ratio Lower Upper
180 100
182 96.0 47.9 143.7
145 34.1 17.5 52.5

