

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF043019\
 Data File : VF062334.D
 Acq On : 30 Apr 2019 15:31
 Operator : FY/SY
 Sample : VF0430SBS01
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0430SBS01

Quant Time: May 01 07:55:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F042419S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 25 08:40:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	315013	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.77	114	424824	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.90	117	338425	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.61	152	209346	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.02	65	149873	58.74	ug/l	-0.02
Spiked Amount			Recovery	=	117.48%	
35) Dibromofluoromethane	4.30	113	171908	54.58	ug/l	-0.02
Spiked Amount			Recovery	=	109.16%	
50) Toluene-d8	7.70	98	382913	49.77	ug/l	-0.02
Spiked Amount			Recovery	=	99.54%	
62) 4-Bromofluorobenzene	11.49	95	166417	52.48	ug/l	-0.02
Spiked Amount			Recovery	=	104.96%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.00	85	94190	25.161	ug/l	98
3) Chloromethane	1.16	50	62562	19.838	ug/l	97
4) Vinyl Chloride	1.20	62	59512	19.925	ug/l	97
5) Bromomethane	1.38	94	46749	23.048	ug/l	92
6) Chloroethane	1.44	64	30155	23.031	ug/l	99
7) Trichlorofluoromethane	1.57	101	111320m	23.455	ug/l	
8) Diethyl Ether	1.71	74	17082	19.867	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	1.91	101	69782	23.428	ug/l	97
10) Methyl Iodide	1.98	142	116981	22.469	ug/l	92
11) Tert butyl alcohol	2.69	59	18808	121.851	ug/l #	93
12) 1,1-Dichloroethene	1.88	96	58058	21.846	ug/l	89
13) Acrolein	2.10	56	12479	91.637	ug/l	96
14) Allyl chloride	2.19	41	60601	20.953	ug/l #	53
15) Acrylonitrile	3.09	53	44277	103.570	ug/l #	94
16) Acetone	2.34	43	67206	117.636	ug/l	92
17) Carbon Disulfide	1.92	76	136040m	19.450	ug/l	
18) Methyl Acetate	2.46	43	24325	21.172	ug/l	99
19) Methyl tert-butyl Ether	2.55	73	108156	21.347	ug/l	96
20) Methylene Chloride	2.34	84	60871m	22.000	ug/l	
21) trans-1,2-Dichloroethene	2.42	96	53613m	20.413	ug/l	
22) Diisopropyl ether	2.93	45	155531	19.975	ug/l	92
23) Vinyl Acetate	3.34	43	372601	107.914	ug/l	100
24) 1,1-Dichloroethane	3.01	63	98669	22.202	ug/l	99
25) 2-Butanone	4.52	43	89312	98.593	ug/l	96
26) 2,2-Dichloropropane	3.77	77	54985	23.826	ug/l	97
27) cis-1,2-Dichloroethene	3.64	96	70067	21.067	ug/l	95
28) Bromochloromethane	3.90	49	36422	19.448	ug/l #	98
29) Tetrahydrofuran	4.27	42	40176	100.936	ug/l	96
30) Chloroform	4.04	83	127295	22.811	ug/l	93
31) Cyclohexane	3.87	56	80556m	19.050	ug/l	
32) 1,1,1-Trichloroethane	4.28	97	108268m	24.711	ug/l	
36) 1,1-Dichloropropene	4.47	75	87482	22.321	ug/l	97
37) Ethyl Acetate	4.30	43	36425	22.091	ug/l	90
38) Carbon Tetrachloride	4.17	117	89346	22.424	ug/l	96

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 Quant Title : SW846 8260
 QLast Update : Thu Apr 25 08:40:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.63	83	90534	19.788	ug/l	87
40) Benzene	4.82	78	194836	20.576	ug/l	98
41) Methacrylonitrile	4.93	41	18281	19.957	ug/l #	83
42) 1,2-Dichloroethane	5.12	62	74304	24.769	ug/l	98
43) Isopropyl Acetate	7.11	43	39339	23.169	ug/l #	97
44) Trichloroethene	5.68	130	71150	22.208	ug/l	99
45) 1,2-Dichloropropane	6.40	63	42174	19.753	ug/l	99
46) Dibromomethane	6.25	93	36680	23.793	ug/l	98
47) Bromodichloromethane	6.55	83	87045	24.018	ug/l	99
48) Methyl methacrylate	6.87	41	24064	19.920	ug/l #	80
49) 1,4-Dioxane	6.87	88	5942	427.162	ug/l #	82
51) 4-Methyl-2-Pentanone	8.40	43	148520	114.319	ug/l	97
52) Toluene	7.77	92	117383	21.482	ug/l	98
53) t-1,3-Dichloropropene	8.42	75	63808	23.943	ug/l	98
54) cis-1,3-Dichloropropene	7.46	75	77058	22.571	ug/l	92
55) 1,1,2-Trichloroethane	8.63	97	34095	21.970	ug/l	98
56) Ethyl methacrylate	8.75	69	35154	20.620	ug/l #	89
57) 1,3-Dichloropropane	8.99	76	53635	21.982	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.45	63	53004	102.170	ug/l	100
59) 2-Hexanone	9.61	43	100896	119.839	ug/l	100
60) Dibromochloromethane	8.85	129	60772	24.128	ug/l	98
61) 1,2-Dibromoethane	9.13	107	39170	21.808	ug/l	97
64) Tetrachloroethene	8.30	164	66820	23.606	ug/l	99
65) Chlorobenzene	9.93	112	135891	21.973	ug/l	93
66) 1,1,1,2-Tetrachloroethane	10.06	131	69664	23.915	ug/l	99
67) Ethyl Benzene	10.03	91	232914	21.663	ug/l	97
68) m/p-Xylenes	10.25	106	174292	43.542	ug/l	92
69) o-Xylene	10.81	106	100470	22.466	ug/l	98
70) Styrene	10.89	104	142499	22.042	ug/l	98
71) Bromoform	10.88	173	36052	21.987	ug/l #	100
73) Isopropylbenzene	11.21	105	308115	21.482	ug/l	99
74) N-amyl acetate	11.44	43	66259	20.049	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.76	83	45432	19.937	ug/l	98
76) 1,2,3-Trichloropropane	11.86	75	35045	21.676	ug/l #	100
77) Bromobenzene	11.58	156	76219	21.256	ug/l	98
78) n-propylbenzene	11.66	91	321759	21.319	ug/l	99
79) 2-Chlorotoluene	11.79	91	190922	21.002	ug/l	99
80) 1,3,5-Trimethylbenzene	11.89	105	272829	22.532	ug/l	94
81) trans-1,4-Dichloro-2-buten	11.93	75	12298m	17.017	ug/l	
82) 4-Chlorotoluene	11.97	91	187239	20.815	ug/l	98
83) tert-Butylbenzene	12.19	119	288609	23.225	ug/l	99
84) 1,2,4-Trimethylbenzene	12.27	105	257392	21.948	ug/l	94
85) sec-Butylbenzene	12.36	105	335620	21.684	ug/l	97
86) p-Isopropyltoluene	12.51	119	322359	23.231	ug/l	99
87) 1,3-Dichlorobenzene	12.53	146	142003	22.385	ug/l	100
88) 1,4-Dichlorobenzene	12.62	146	134663	22.389	ug/l	100
89) n-Butylbenzene	12.90	91	282018	22.367	ug/l	95
90) Hexachloroethane	12.97	117	77154	22.181	ug/l	96
91) 1,2-Dichlorobenzene	12.99	146	135555	22.261	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.68	75	9648	20.987	ug/l	90

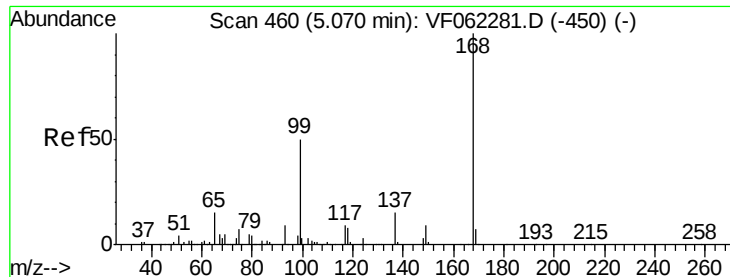
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF043019\
Data File : VF062334.D
Acq On : 30 Apr 2019 15:31
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Sample : VF0430SBSD01
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Instrument :
MSVOA_F
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82F042419S.M
Quant Title : SW846 8260
QLast Update : Thu Apr 25 08:40:59 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.24	180	126894	23.720	ug/l	97
94) Hexachlorobutadiene	14.23	225	92172	23.958	ug/l	99
95) Naphthalene	14.48	128	187619	22.638	ug/l	99
96) 1,2,3-Trichlorobenzene	14.63	180	122022	24.118	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 458

Delta R.T. -0.02 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

Instrument :

MSVOA_F

ClientSampleId :

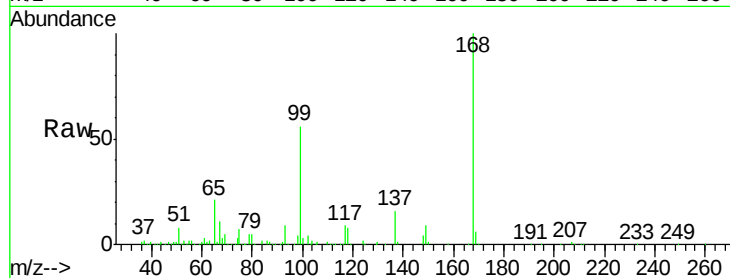
VF0430SBS01

Tot Ion:168 Resp: 315013

Ion Ratio Lower Upper

168 100

99 55.7 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VF0

5.05

120000

100000

80000

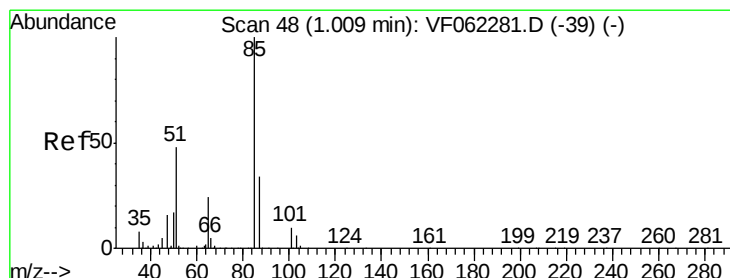
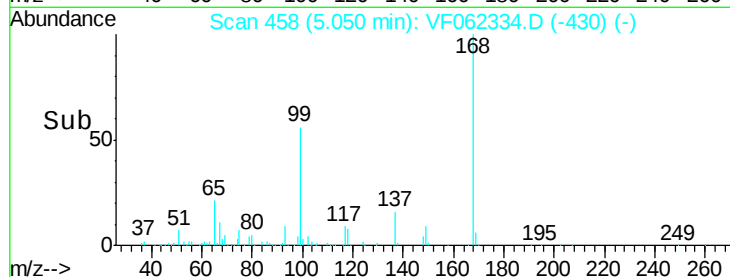
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 25.161 ug/l

RT: 1.00 min Scan# 47

Delta R.T. -0.01 min

Lab File: VF062334.D

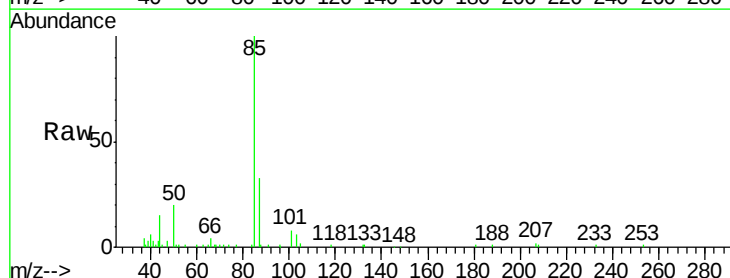
Acq: 30 Apr 2019 15:31

Tgt Ion: 85 Resp: 94190

Ion Ratio Lower Upper

85 100

87 33.0 17.1 51.3



Abundance Ion 84.90 (84.60 to 85.60): VF0

Ion 86.90 (86.60 to 87.60): VF0

1.00

25000

20000

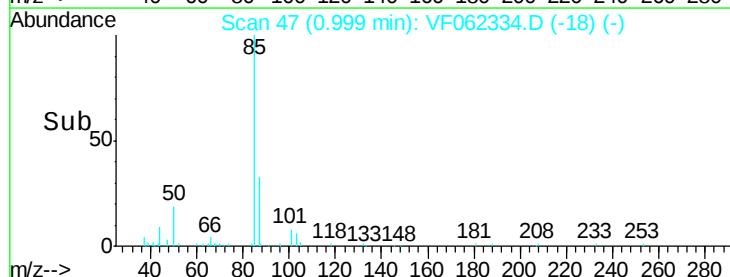
15000

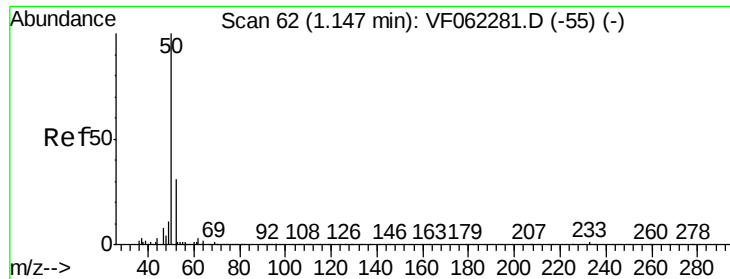
10000

5000

0

Time-->





#3

Chloromethane

Concen: 19.838 ug/l

RT: 1.16 min Scan# 63

Delta R.T. 0.01 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

Instrument :

MSVOA_F

ClientSampleId :

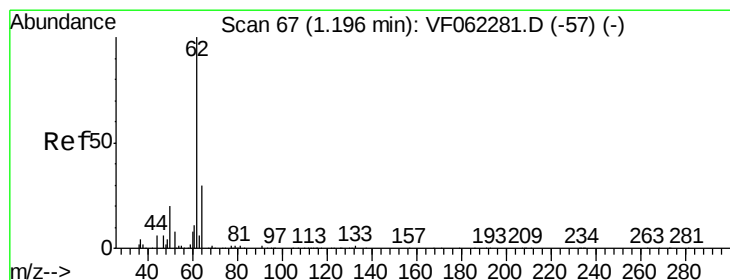
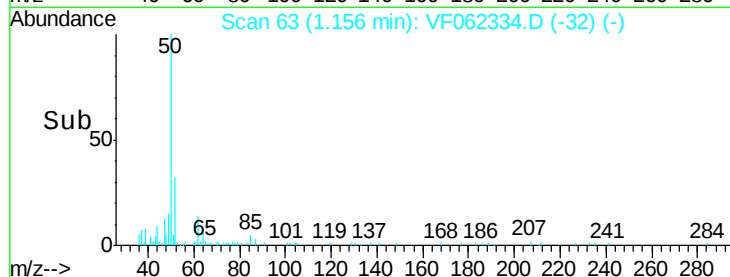
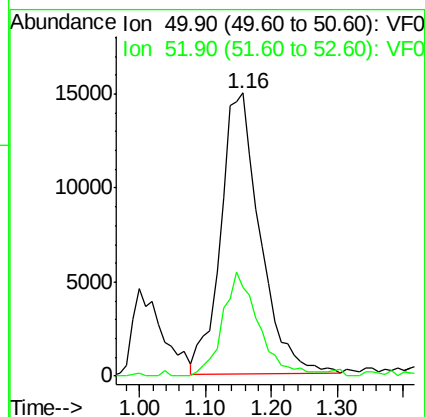
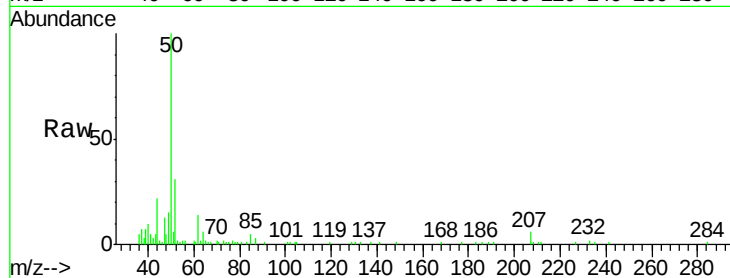
VF0430SBS01

Tot Ion: 50 Resp: 62562

Ion Ratio Lower Upper

50 100

52 31.9 24.2 36.4



#4

Vinyl Chloride

Concen: 19.925 ug/l

RT: 1.20 min Scan# 67

Delta R.T. -0.00 min

Lab File: VF062334.D

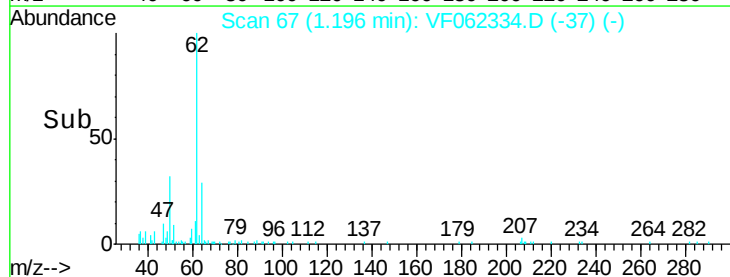
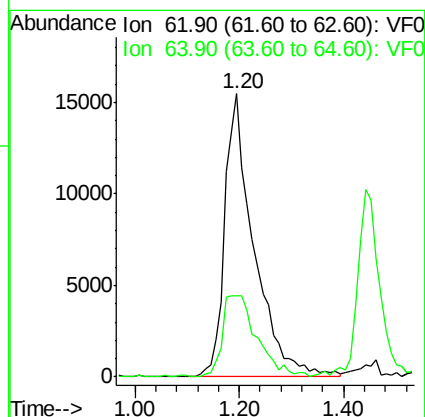
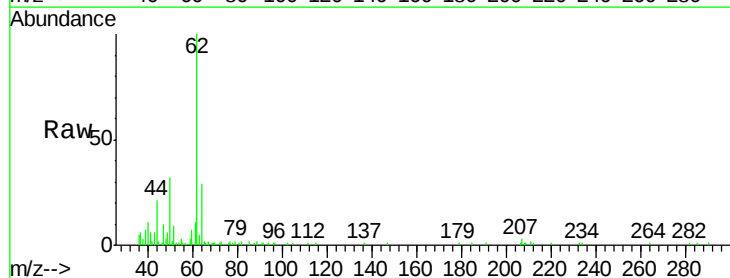
Acq: 30 Apr 2019 15:31

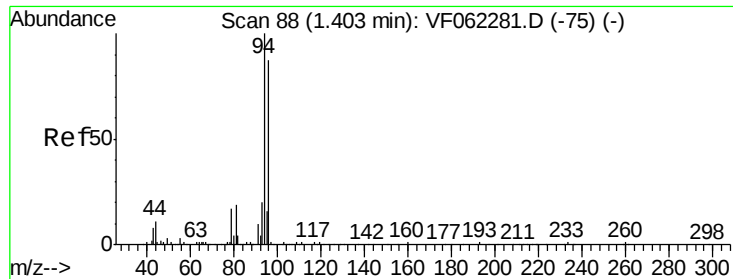
Tgt Ion: 62 Resp: 59512

Ion Ratio Lower Upper

62 100

64 28.6 24.3 36.5





#5

Bromomethane

Concen: 23.048 ug/l

RT: 1.38 min Scan# 86

Delta R.T. -0.02 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

Instrument :

MSVOA_F

ClientSampleId :

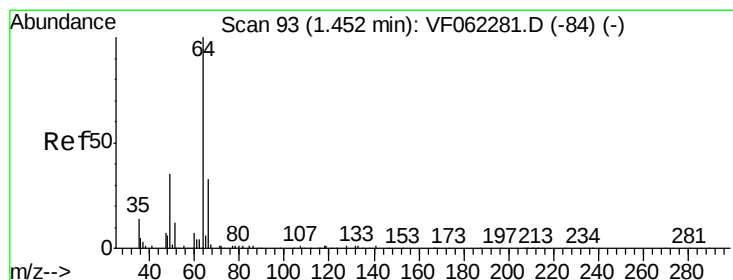
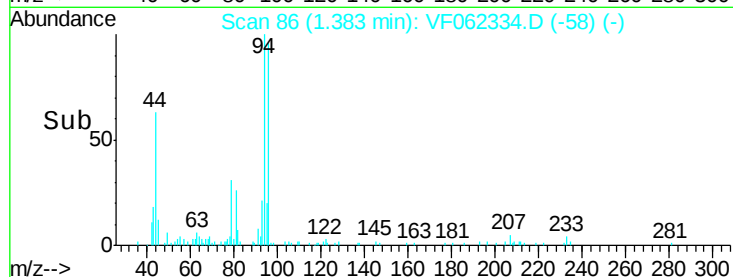
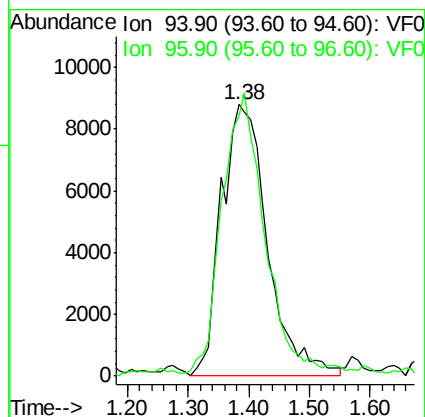
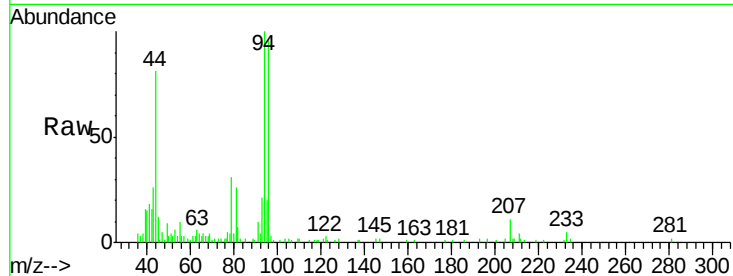
VF0430SBS01

Tot Ion: 94 Resp: 46749

Ion Ratio Lower Upper

94 100

96 93.9 69.5 104.3



#6

Chloroethane

Concen: 23.031 ug/l

RT: 1.44 min Scan# 92

Delta R.T. -0.01 min

Lab File: VF062334.D

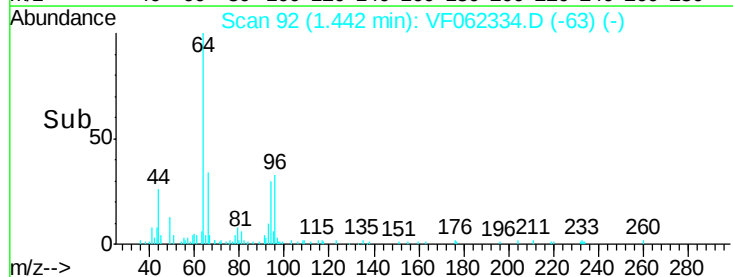
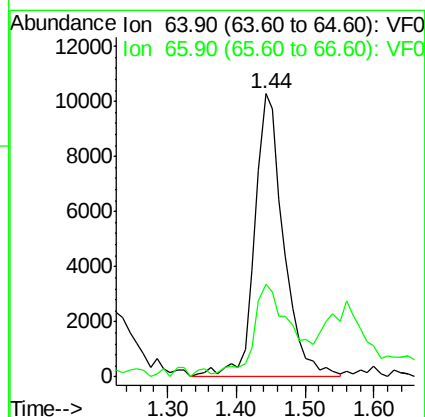
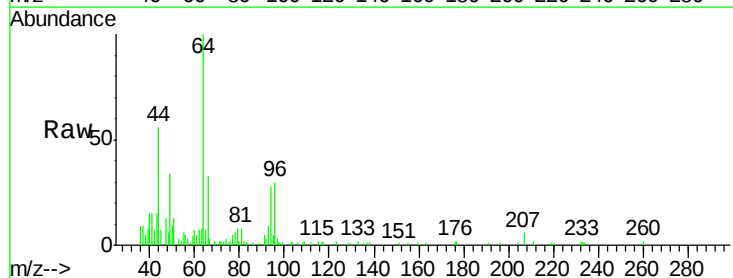
Acq: 30 Apr 2019 15:31

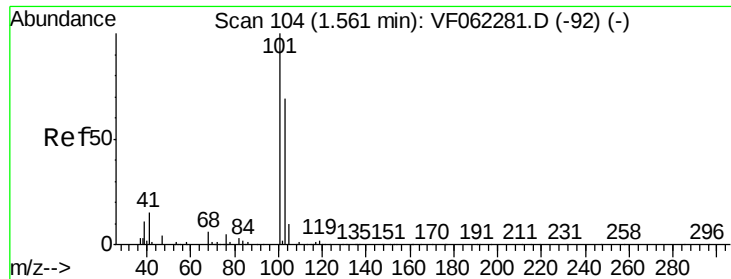
Tgt Ion: 64 Resp: 30155

Ion Ratio Lower Upper

64 100

66 32.9 26.0 39.0



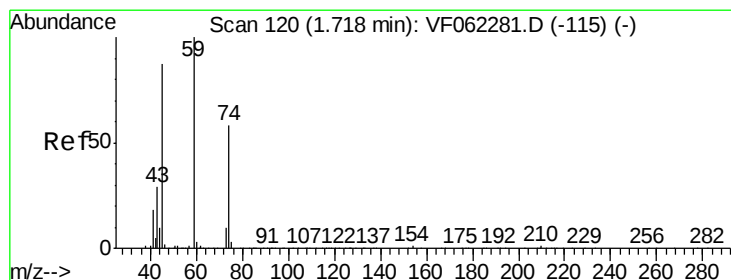
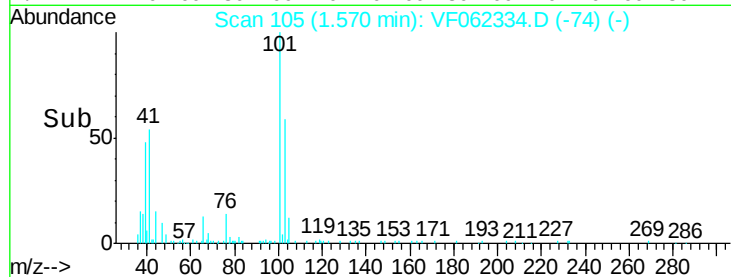
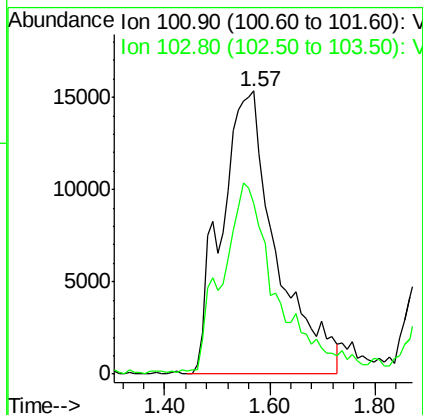
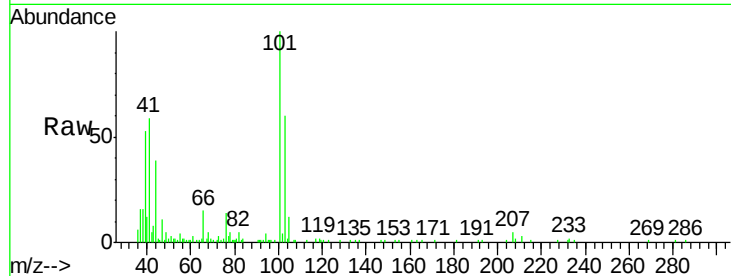


#7

Trichlorofluoromethane
Concen: 23.455 ug/l m
RT: 1.57 min Scan# 105
Delta R.T. 0.01 min
Lab File: VF062334.D
Acq: 30 Apr 2019 15:31

Instrument :
MSVOA_F
ClientSampleId :
VF0430SBS01

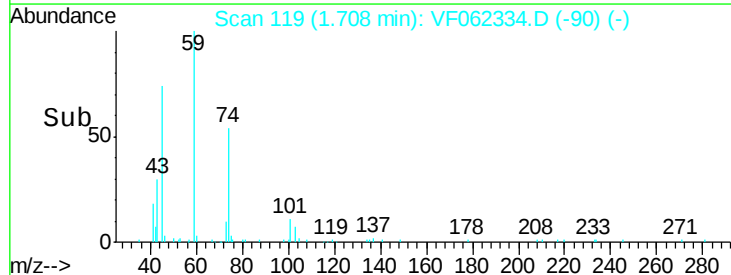
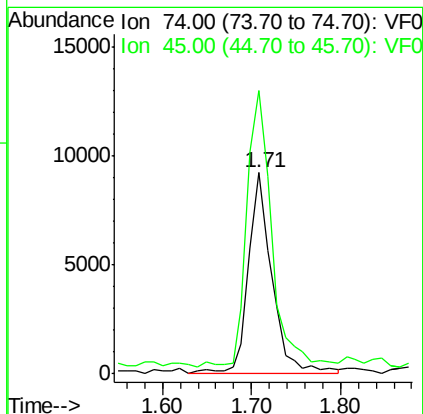
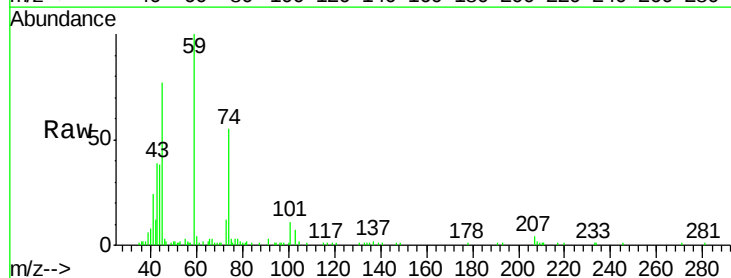
Tot Ion:101 Resp: 111320
Ion Ratio Lower Upper
101 100
103 60.2 55.0 82.6

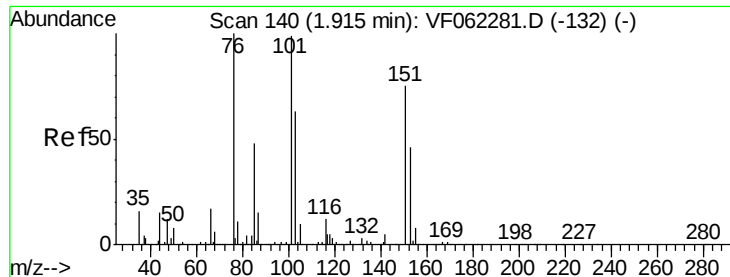


#8

Diethyl Ether
Concen: 19.867 ug/l
RT: 1.71 min Scan# 119
Delta R.T. -0.01 min
Lab File: VF062334.D
Acq: 30 Apr 2019 15:31

Tgt Ion: 74 Resp: 17082
Ion Ratio Lower Upper
74 100
45 136.5 74.0 222.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.428 ug/l

RT: 1.91 min Scan# 139

Delta R.T. -0.01 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

Instrument :

MSVOA_F

ClientSampleId :

VF0430SBS01

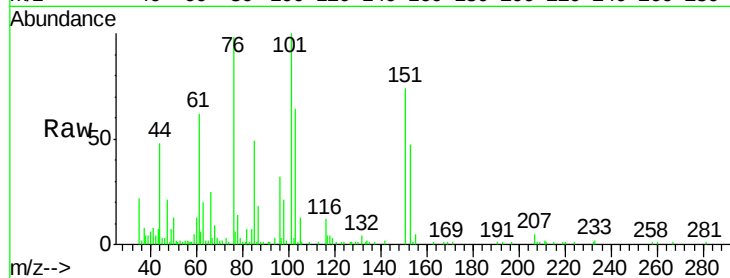
Tot Ion:101 Resp: 69782

Ion Ratio Lower Upper

101 100

85 49.4 36.5 54.7

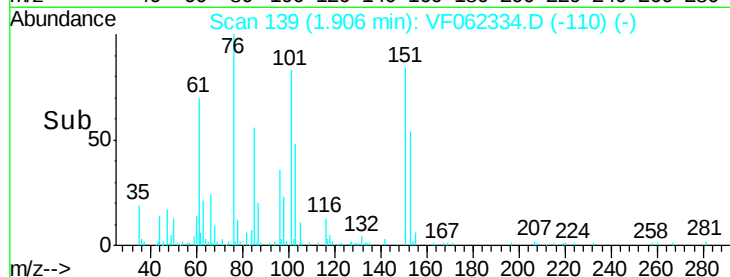
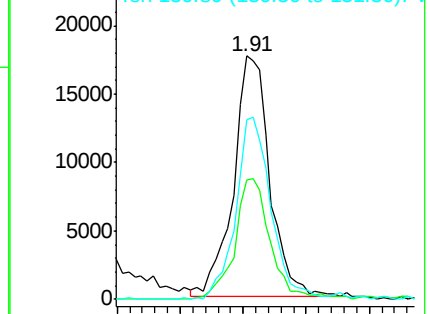
151 73.6 59.2 88.8



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VF0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 22.469 ug/l

RT: 1.98 min Scan# 147

Delta R.T. -0.01 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

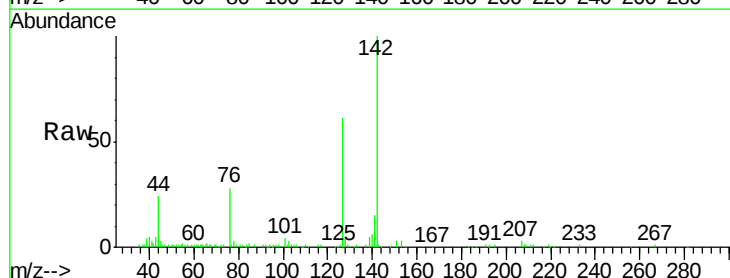
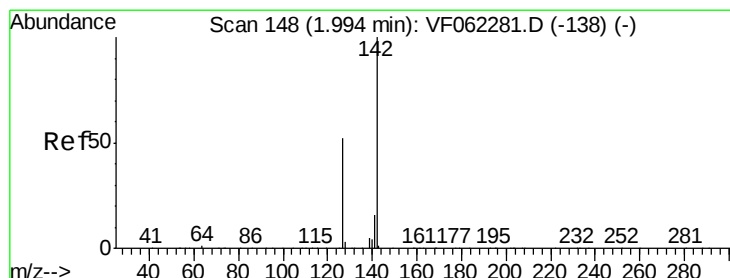
Tgt Ion:142 Resp: 116981

Ion Ratio Lower Upper

142 100

127 59.7 43.0 64.4

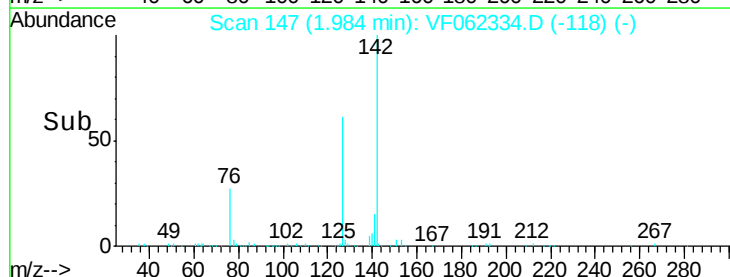
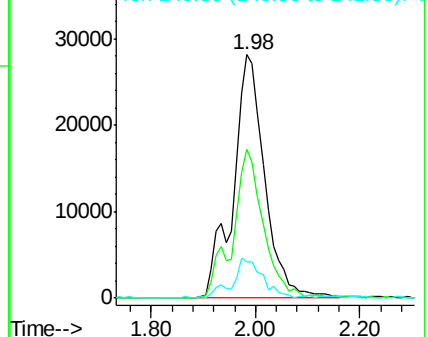
141 12.8 12.3 18.5

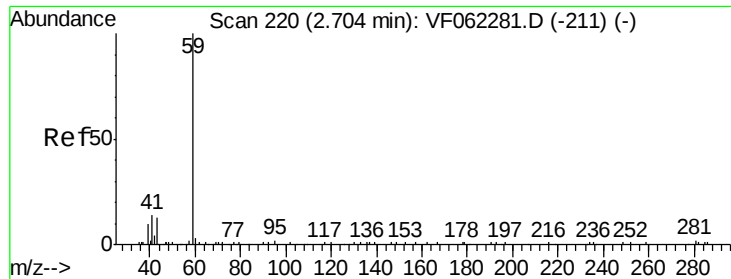


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

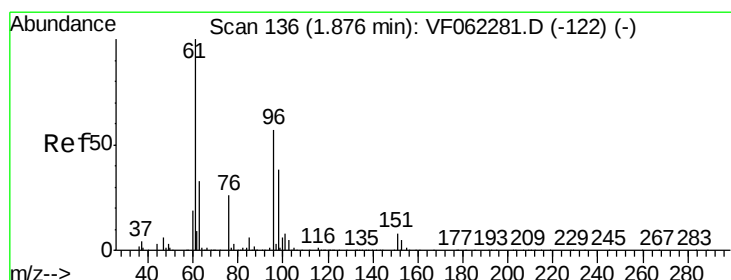
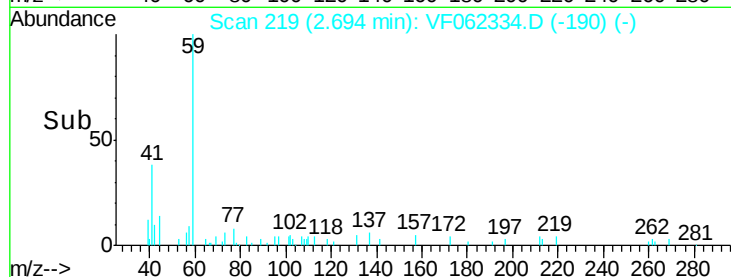
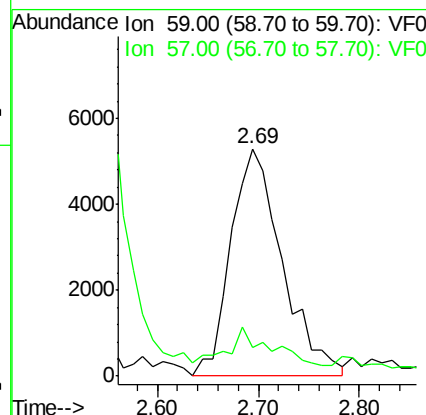
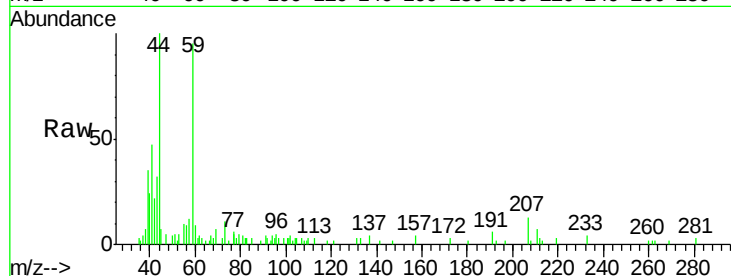




#11
Tert butyl alcohol
Concen: 121.851 ug/l
RT: 2.69 min Scan# 219
Delta R.T. -0.01 min
Lab File: VF062334.D
Acq: 30 Apr 2019 15:31

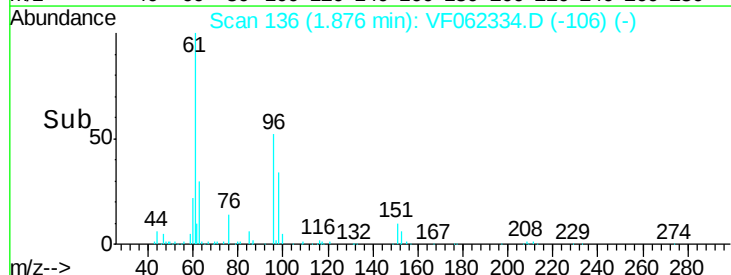
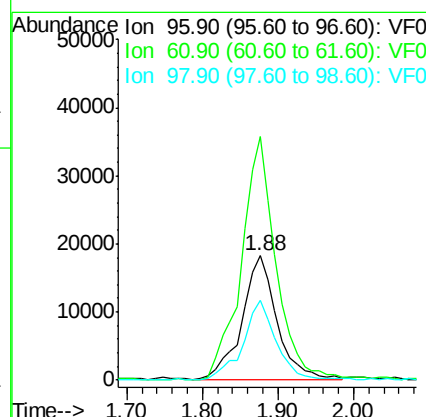
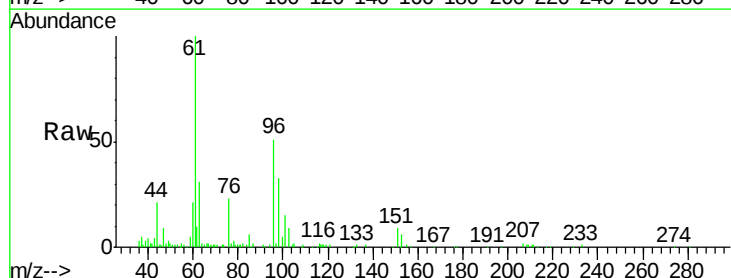
Instrument :
MSVOA_F
ClientSampleId :
VF0430SBS01

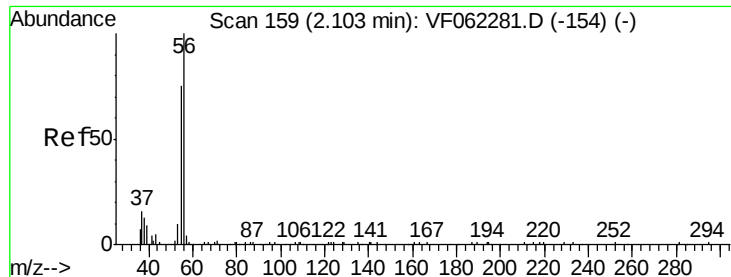
Tot Ion: 59 Resp: 18808
Ion Ratio Lower Upper
59 100
57 13.6 8.8 13.2#



#12
1,1-Dichloroethene
Concen: 21.846 ug/l
RT: 1.88 min Scan# 136
Delta R.T. -0.00 min
Lab File: VF062334.D
Acq: 30 Apr 2019 15:31

Tgt Ion: 96 Resp: 58058
Ion Ratio Lower Upper
96 100
61 197.0 141.1 211.7
98 65.1 53.4 80.0





#13

Acrolein

Concen: 91.637 ug/l

RT: 2.10 min Scan# 159

Delta R.T. 0.00 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

Instrument :

MSVOA_F

ClientSampleId :

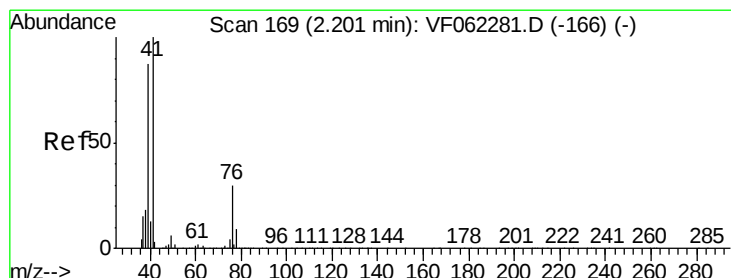
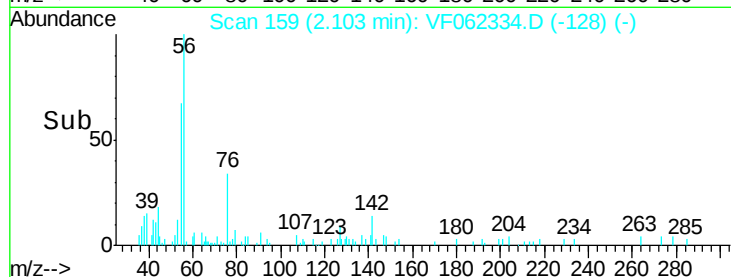
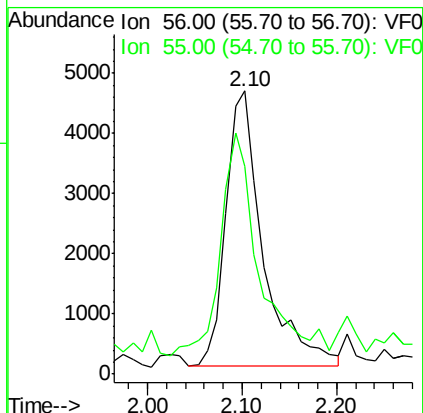
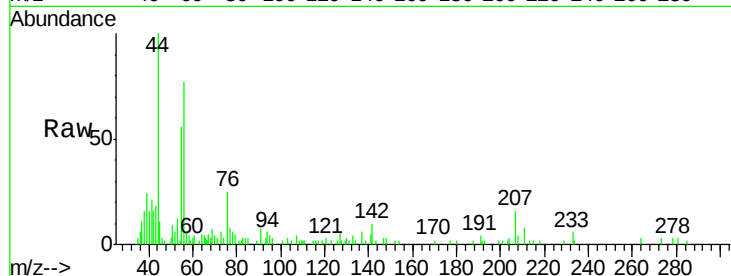
VF0430SBS01

Tot Ion: 56 Resp: 12479

Ion Ratio Lower Upper

56 100

55 81.3 62.3 93.5



#14

Allyl chloride

Concen: 20.953 ug/l

RT: 2.19 min Scan# 168

Delta R.T. -0.01 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

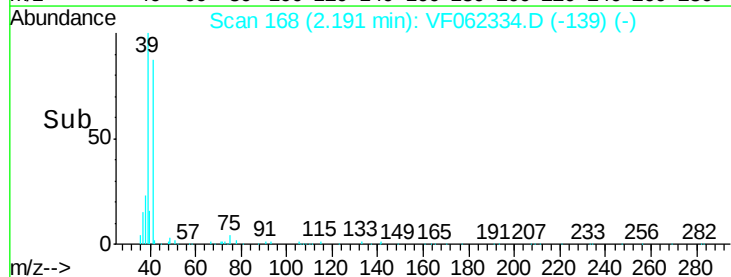
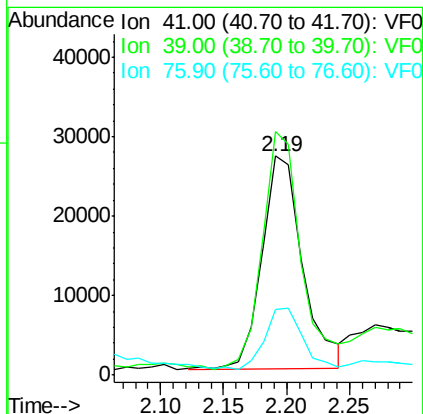
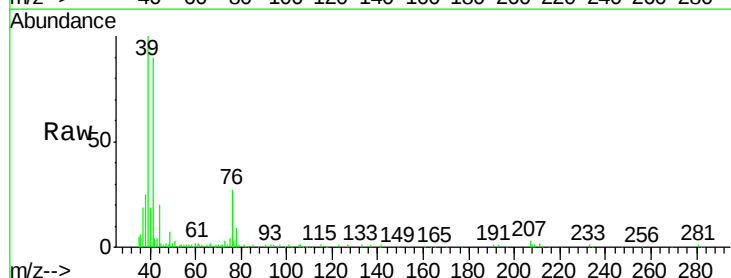
Tgt Ion: 41 Resp: 60601

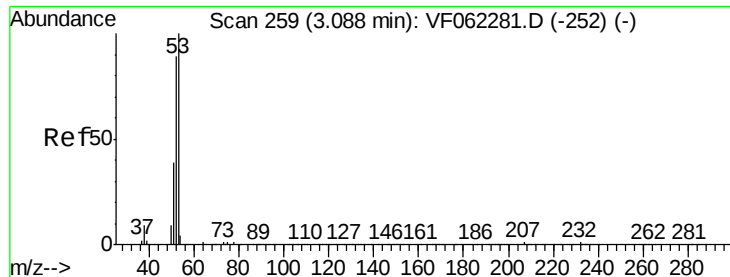
Ion Ratio Lower Upper

41 100

39 105.9 50.3 75.5#

76 27.2 14.8 22.2#





#15

Acrylonitrile

Concen: 103.570 ug/l

RT: 3.09 min Scan# 259

Delta R.T. -0.00 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

Instrument :

MSVOA_F

ClientSampleId :

VF0430SBS01

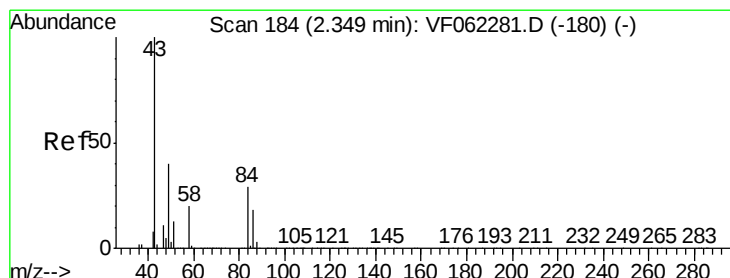
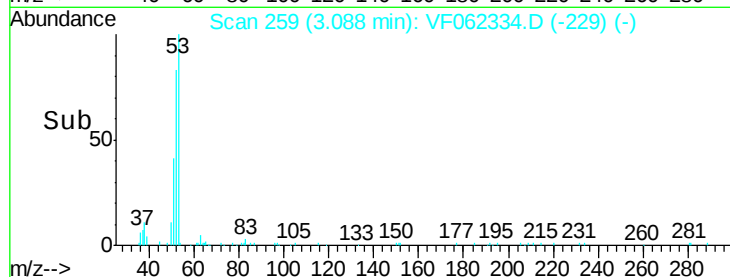
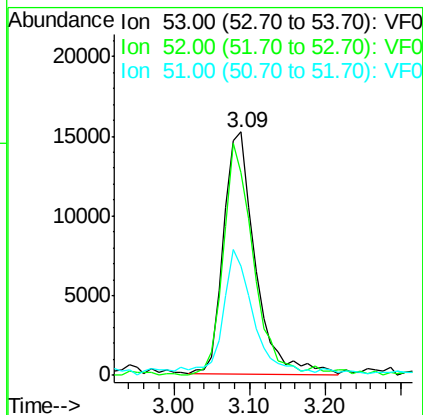
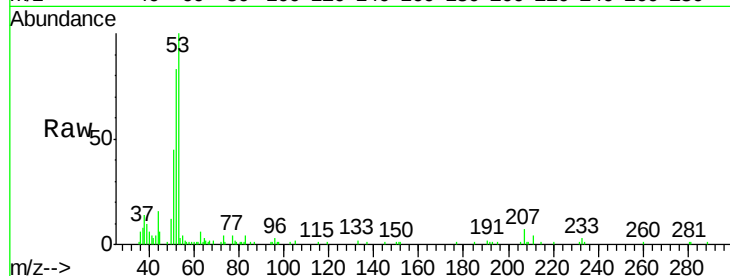
Tot Ion: 53 Resp: 44277

Ion Ratio Lower Upper

53 100

52 90.0 70.6 105.8

51 49.8 32.6 48.8#



#16

Acetone

Concen: 117.636 ug/l

RT: 2.34 min Scan# 183

Delta R.T. -0.01 min

Lab File: VF062334.D

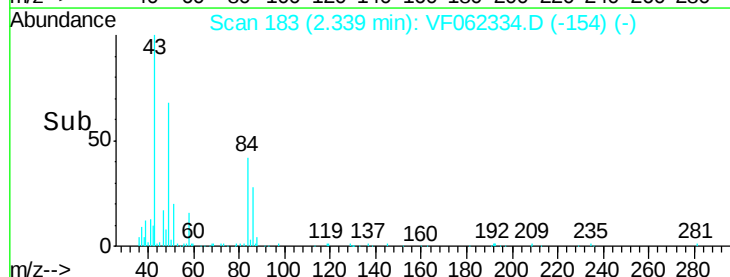
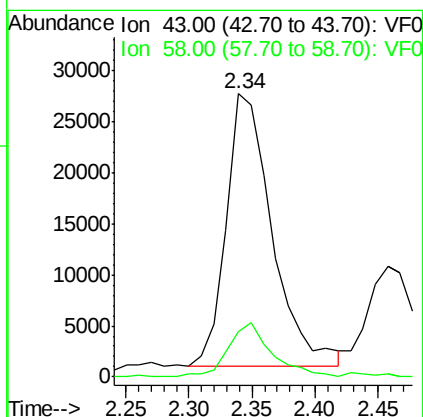
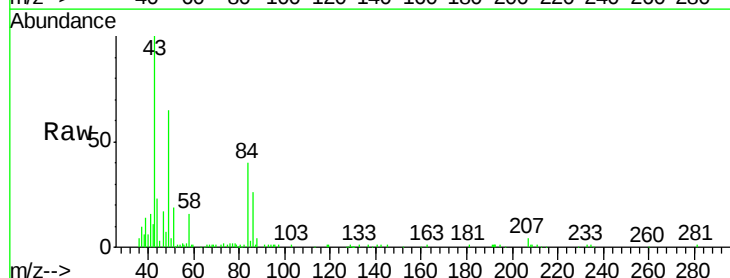
Acq: 30 Apr 2019 15:31

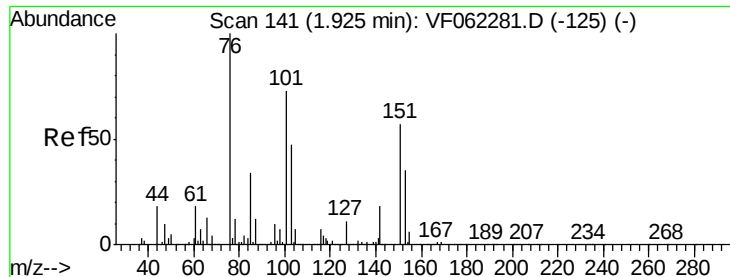
Tgt Ion: 43 Resp: 67206

Ion Ratio Lower Upper

43 100

58 16.8 16.4 24.6





#17

Carbon Disulfide

Concen: 19.450 ug/l m

RT: 1.92 min Scan# 140

Delta R.T. -0.01 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

Instrument :

MSVOA_F

ClientSampleId :

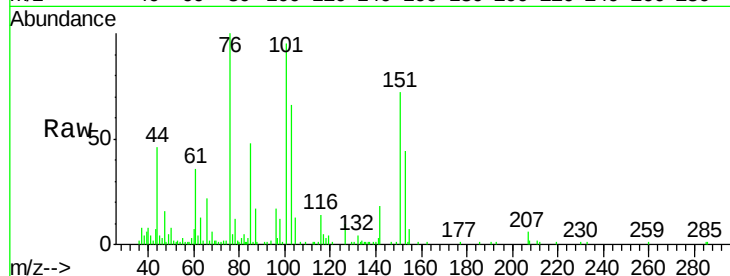
VF0430SBS01

Tot Ion: 76 Resp: 136040

Ion Ratio Lower Upper

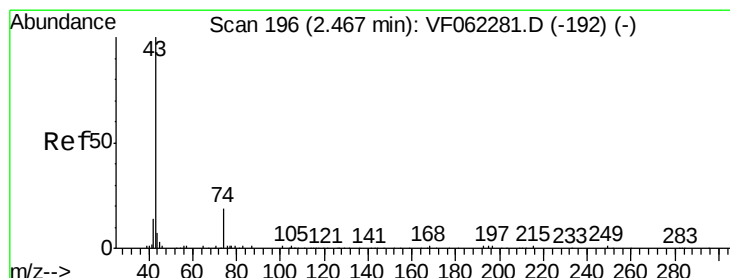
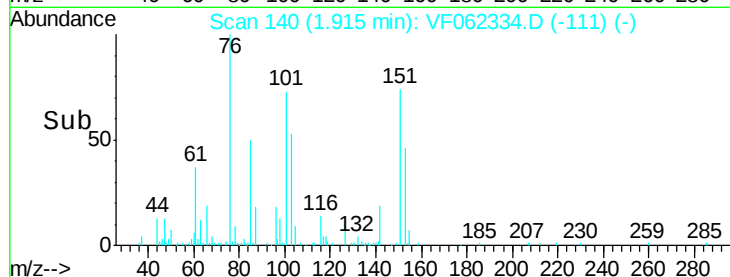
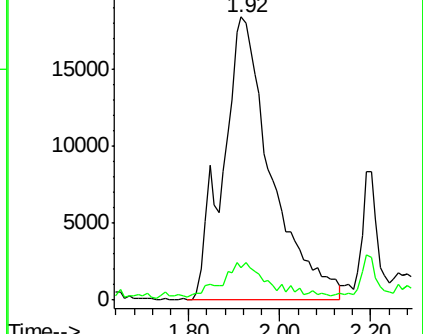
76 100

78 11.5 9.8 14.8



Abundance Ion 75.90 (75.60 to 76.60): VF0

Ion 77.90 (77.60 to 78.60): VF0



#18

Methyl Acetate

Concen: 21.172 ug/l

RT: 2.46 min Scan# 195

Delta R.T. -0.01 min

Lab File: VF062334.D

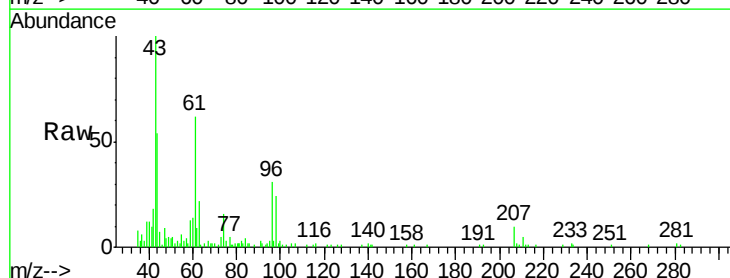
Acq: 30 Apr 2019 15:31

Tgt Ion: 43 Resp: 24325

Ion Ratio Lower Upper

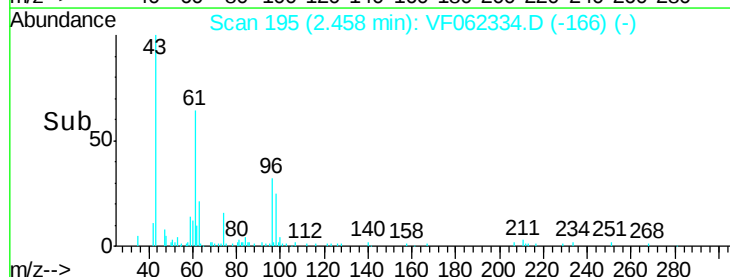
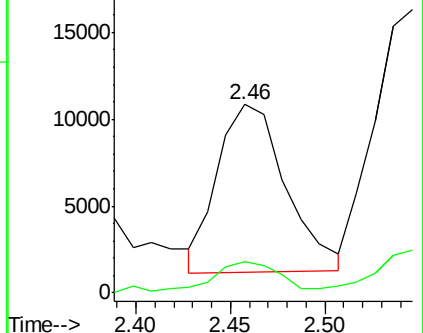
43 100

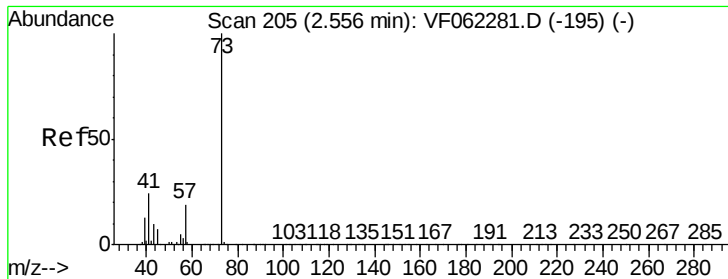
74 18.4 14.4 21.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0



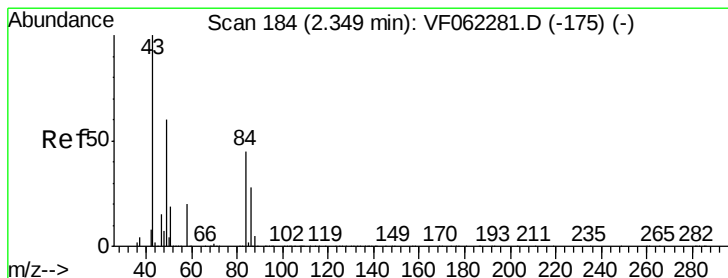
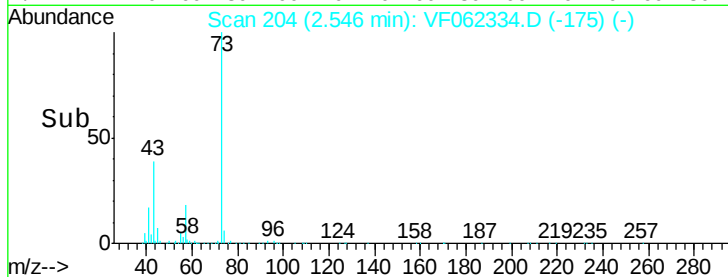
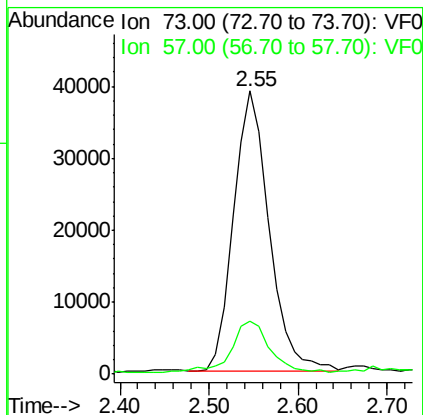
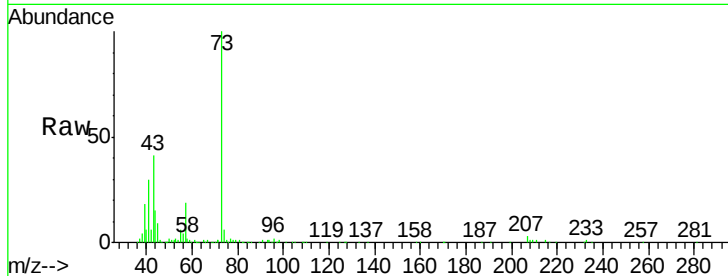


#19

Methyl tert-butyl Ether
 Concen: 21.347 ug/l
 RT: 2.55 min Scan# 204
 Delta R.T. -0.01 min
 Lab File: VF062334.D
 Acq: 30 Apr 2019 15:31

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0430SBS01

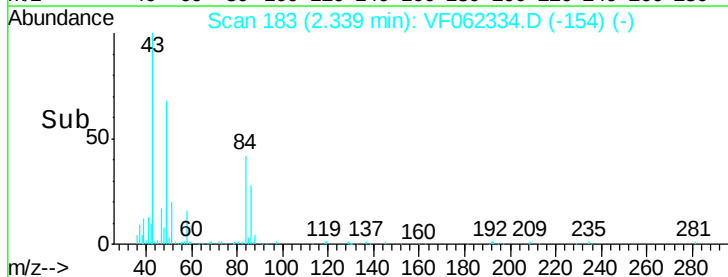
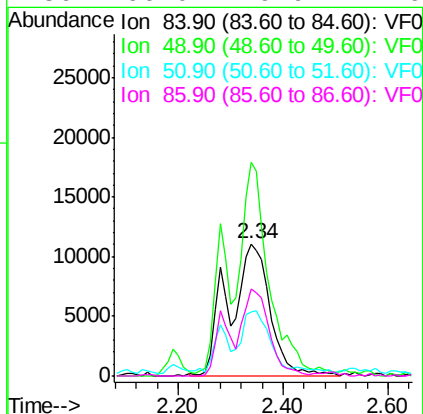
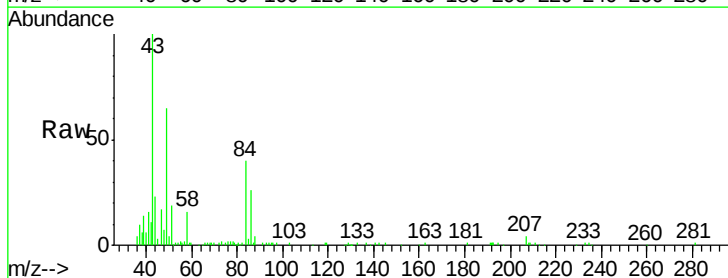
Tot Ion: 73 Resp: 108156
 Ion Ratio Lower Upper
 73 100
 57 17.5 15.5 23.3

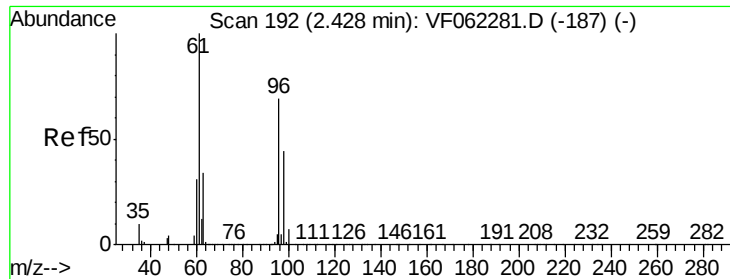


#20

Methylene Chloride
 Concen: 22.000 ug/l m
 RT: 2.34 min Scan# 183
 Delta R.T. -0.01 min
 Lab File: VF062334.D
 Acq: 30 Apr 2019 15:31

Tgt Ion: 84 Resp: 60871
 Ion Ratio Lower Upper
 84 100
 49 161.5 112.1 168.1
 51 48.6 35.9 53.9
 86 66.0 49.9 74.9





#21

trans-1,2-Dichloroethene

Concen: 20.413 ug/l m

RT: 2.42 min Scan# 191

Delta R.T. -0.01 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

Instrument :

MSVOA_F

ClientSampleId :

VF0430SBS01

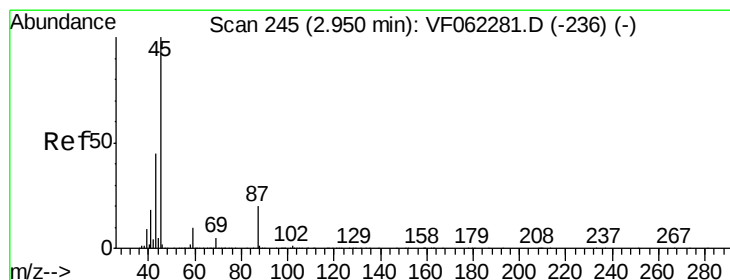
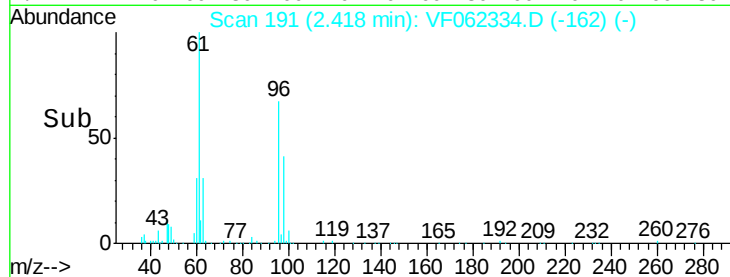
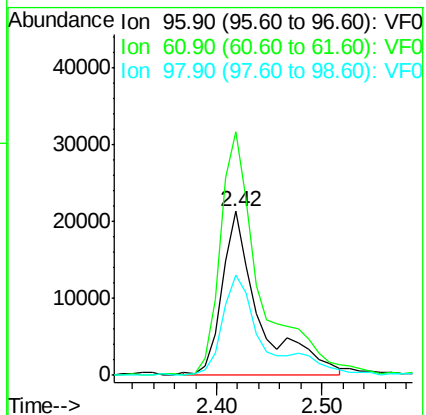
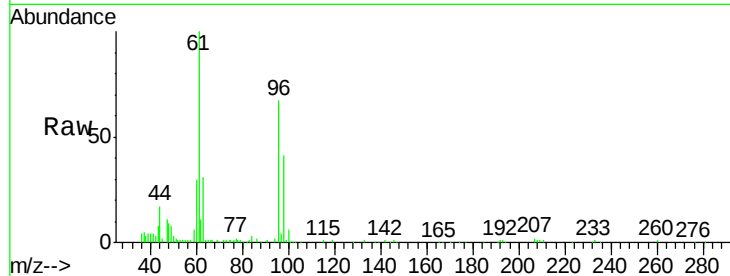
Tot Ion: 96 Resp: 53613

Ion Ratio Lower Upper

96 100

61 148.6 116.2 174.2

98 61.3 51.4 77.0



#22

Diisopropyl ether

Concen: 19.975 ug/l

RT: 2.93 min Scan# 243

Delta R.T. -0.02 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

Tgt Ion: 45 Resp: 155531

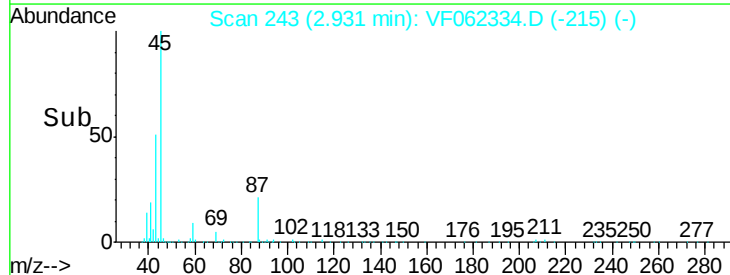
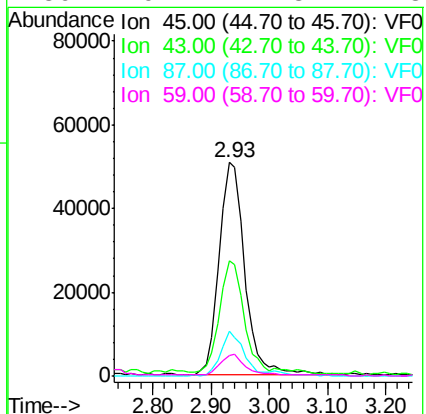
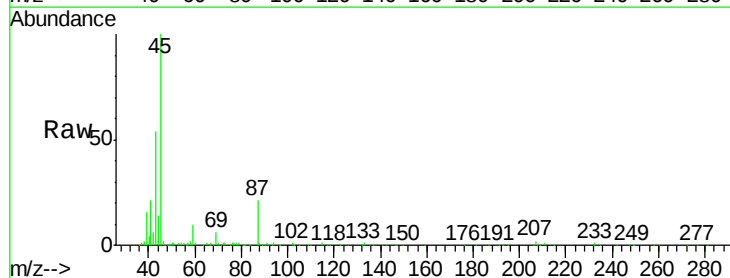
Ion Ratio Lower Upper

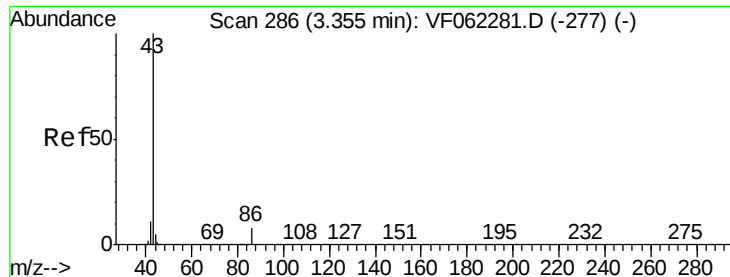
45 100

43 52.8 36.2 54.2

87 20.9 15.8 23.6

59 9.4 7.8 11.8





#23

Vinyl Acetate

Concen: 107.914 ug/l

RT: 3.34 min Scan# 285

Delta R.T. -0.01 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

Instrument :

MSVOA_F

ClientSampleId :

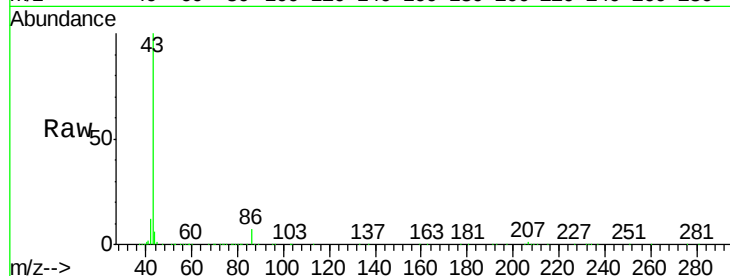
VF0430SBS01

Tot Ion: 43 Resp: 372601

Ion Ratio Lower Upper

43 100

86 7.3 6.0 9.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.34

150000

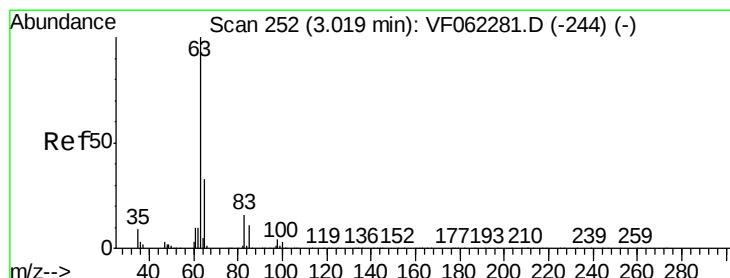
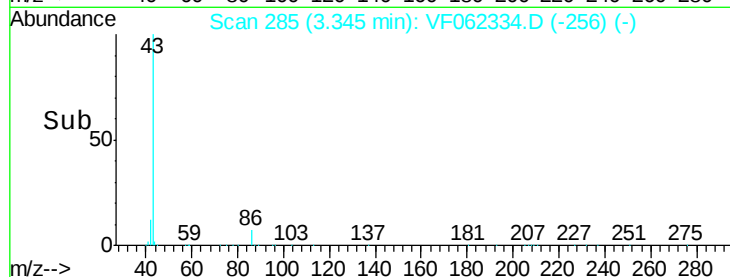
100000

50000

0

Time-->

3.20 3.40 3.60



#24

1,1-Dichloroethane

Concen: 22.202 ug/l

RT: 3.01 min Scan# 251

Delta R.T. -0.01 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

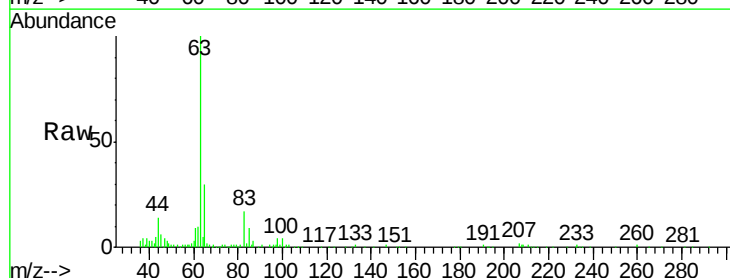
Tgt Ion: 63 Resp: 98669

Ion Ratio Lower Upper

63 100

98 4.2 2.1 6.2

100 3.8 1.5 4.5



Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 97.90 (97.60 to 98.60): VF0

Ion 99.90 (99.60 to 100.60): VF0

50000

40000

30000

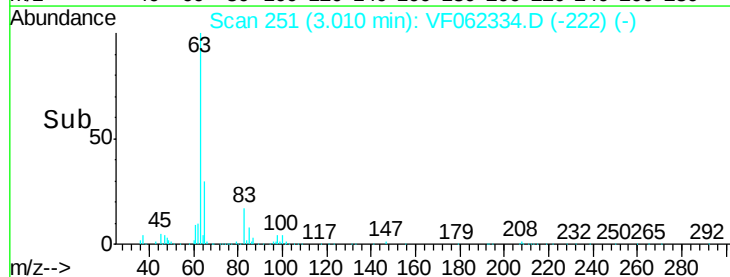
20000

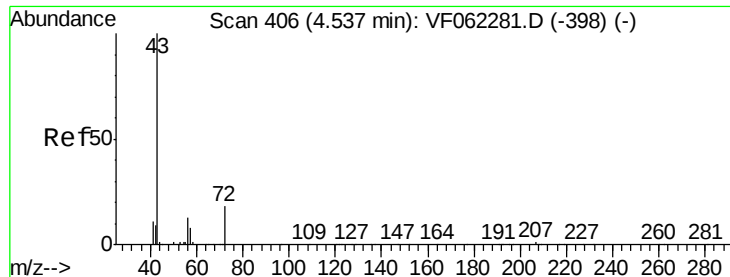
10000

0

Time-->

2.90 3.00 3.10

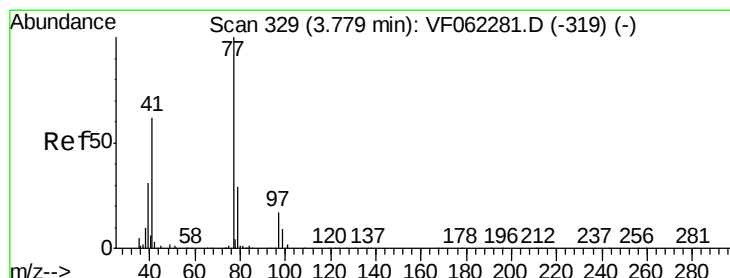
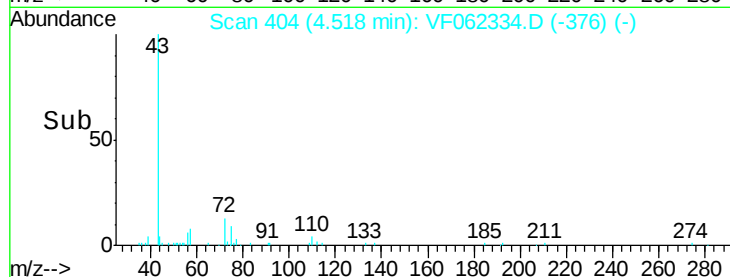
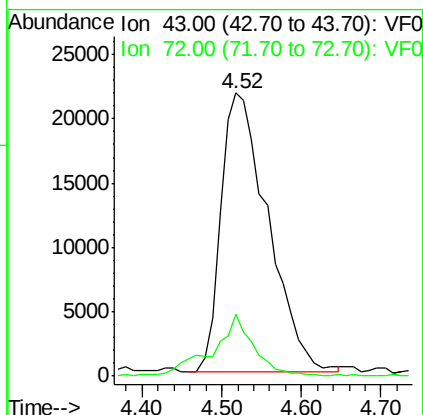
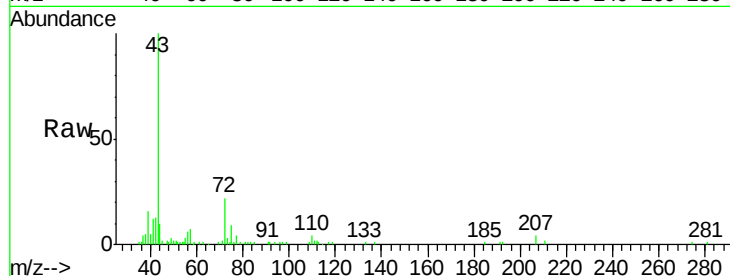




#25
2-Butanone
Concen: 98.593 ug/l
RT: 4.52 min Scan# 404
Delta R.T. -0.02 min
Lab File: VF062334.D
Acq: 30 Apr 2019 15:31

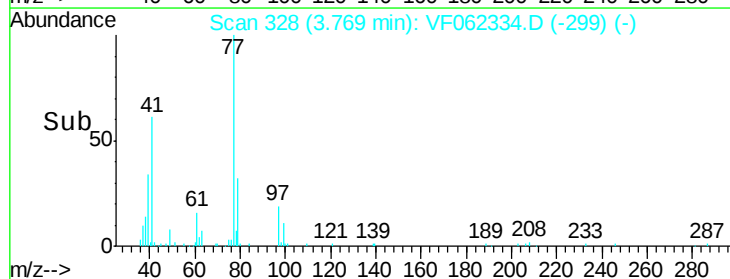
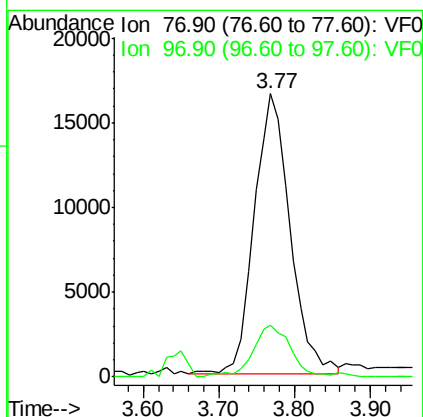
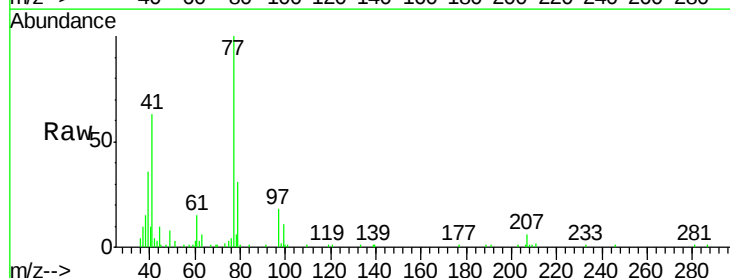
Instrument :
MSVOA_F
ClientSampleId :
VF0430SBS01

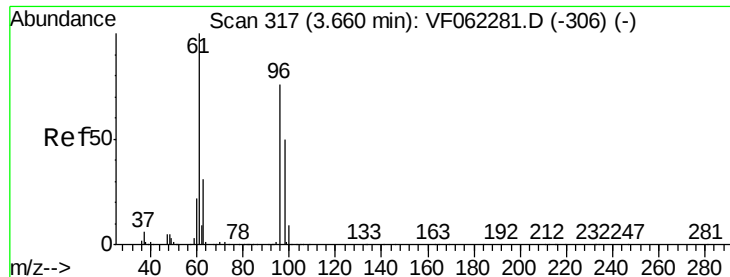
Tot Ion: 43 Resp: 89312
Ion Ratio Lower Upper
43 100
72 21.5 15.8 23.6



#26
2,2-Dichloropropane
Concen: 23.826 ug/l
RT: 3.77 min Scan# 328
Delta R.T. -0.01 min
Lab File: VF062334.D
Acq: 30 Apr 2019 15:31

Tgt Ion: 77 Resp: 54985
Ion Ratio Lower Upper
77 100
97 19.3 10.3 30.8



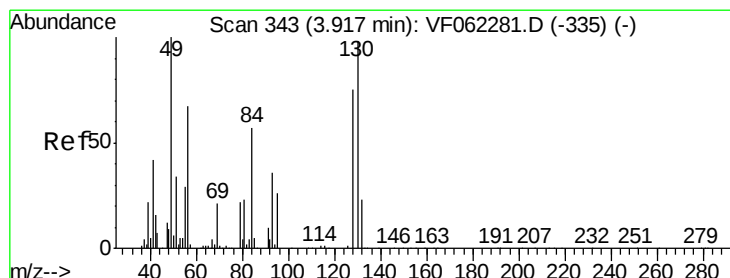
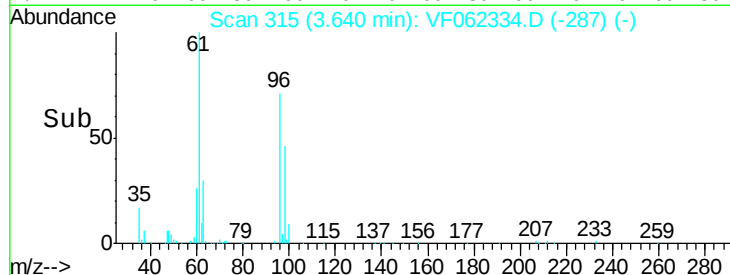
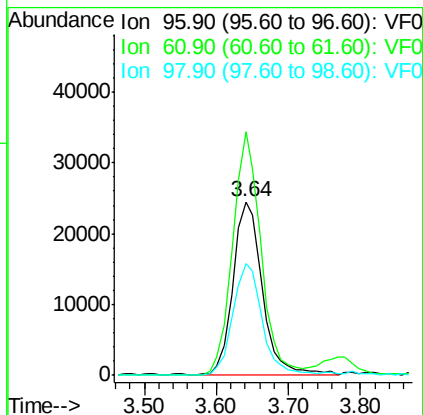
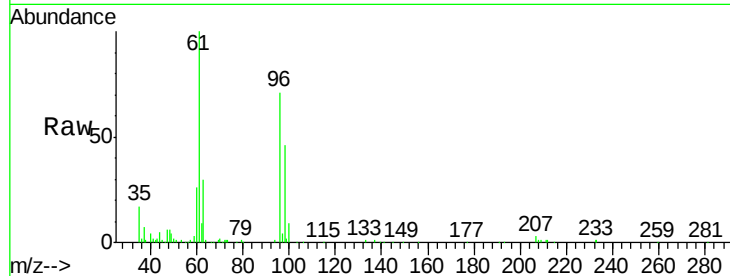


#27

cis-1,2-Dichloroethene
Concen: 21.067 ug/l
RT: 3.64 min Scan# 315
Delta R.T. -0.02 min
Lab File: VF062334.D
Acq: 30 Apr 2019 15:31

Instrument :
MSVOA_F
ClientSampleId :
VF0430SBS01

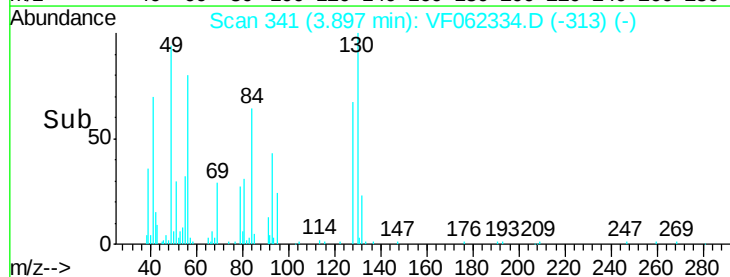
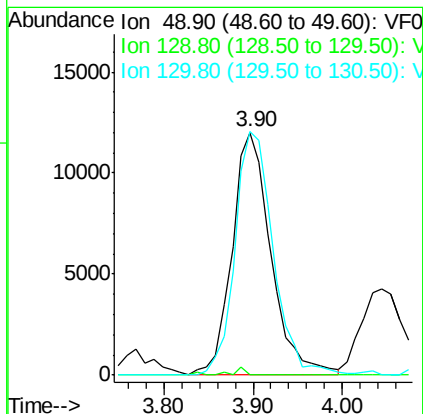
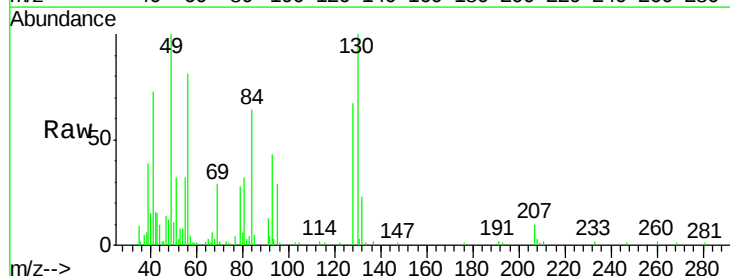
Tot Ion	Ratio	Lower	Upper
96	100		
61	134.2	0.0	257.6
98	63.7	0.0	137.4

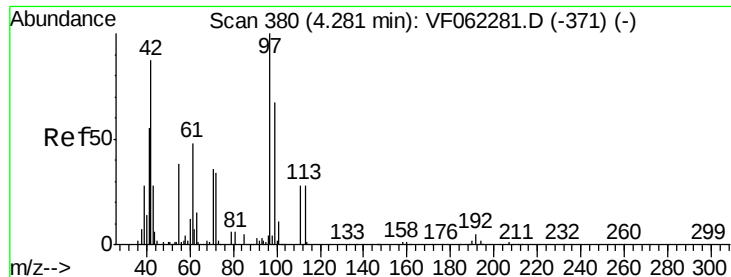


#28

Bromochloromethane
Concen: 19.448 ug/l
RT: 3.90 min Scan# 341
Delta R.T. -0.02 min
Lab File: VF062334.D
Acq: 30 Apr 2019 15:31

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.9	0.0	0.0#
130	98.6	77.0	115.4

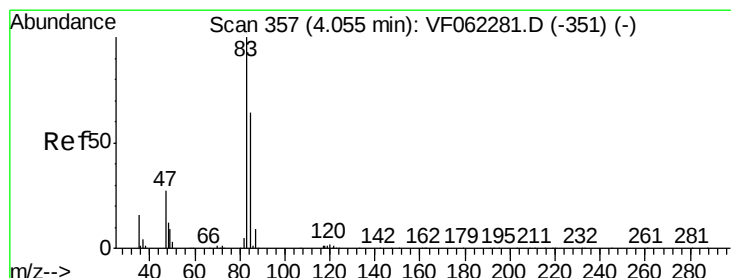
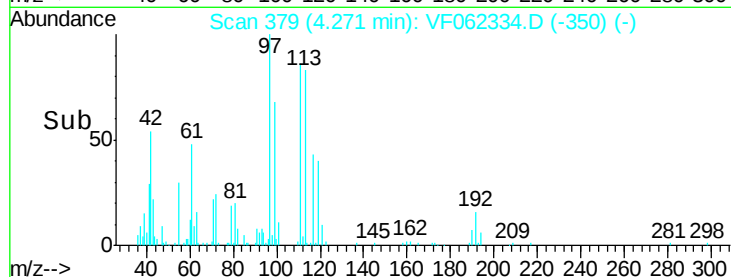
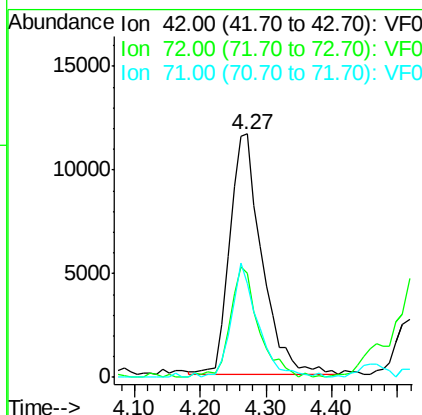
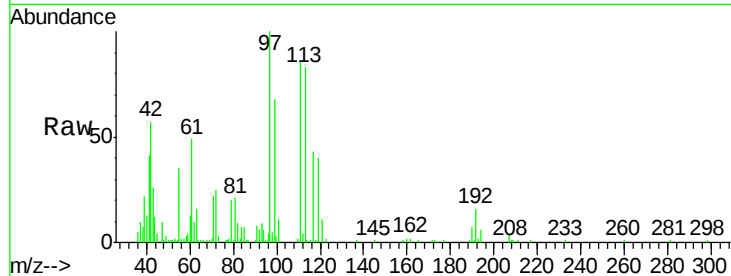




#29
Tetrahydrofuran
Concen: 100.936 ug/l
RT: 4.27 min Scan# 379
Delta R.T. -0.01 min
Lab File: VF062334.D
Acq: 30 Apr 2019 15:31

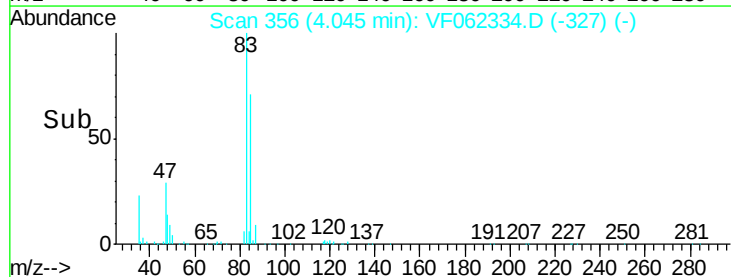
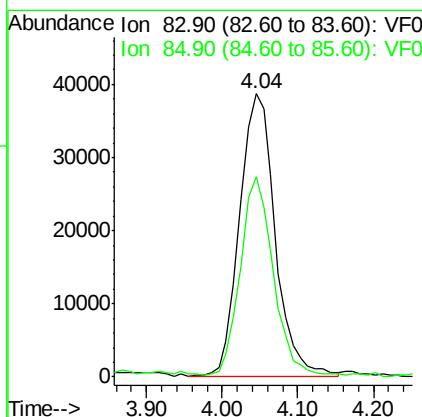
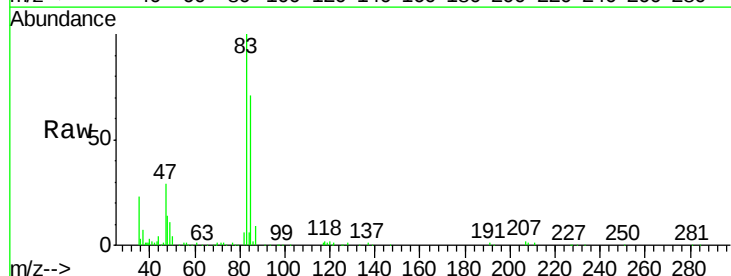
Instrument :
MSVOA_F
ClientSampleId :
VF0430SBS01

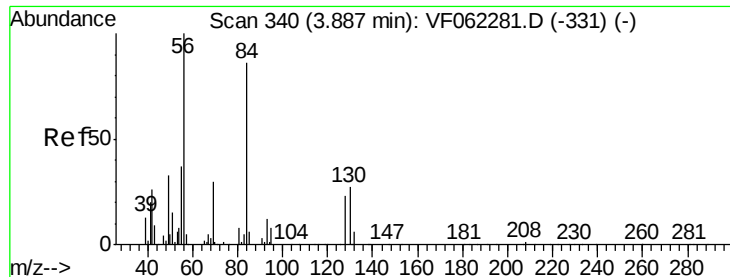
Tot Ion	Ratio	Lower	Upper
42	100		
72	40.8	29.3	43.9
71	38.7	31.2	46.8



#30
Chloroform
Concen: 22.811 ug/l
RT: 4.04 min Scan# 356
Delta R.T. -0.01 min
Lab File: VF062334.D
Acq: 30 Apr 2019 15:31

Tgt Ion	Ratio	Lower	Upper
83	100		
85	69.6	51.1	76.7





#31

Cyclohexane

Concen: 19.050 ug/l m

RT: 3.87 min Scan# 338

Delta R.T. -0.02 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

Instrument :

MSVOA_F

ClientSampleId :

VF0430SBS01

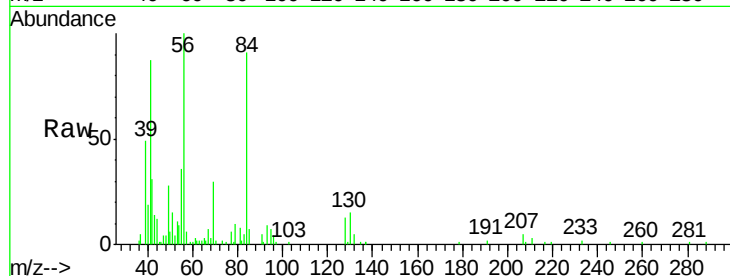
Tot Ion: 56 Resp: 80556

Ion Ratio Lower Upper

56 100

69 30.1 24.3 36.5

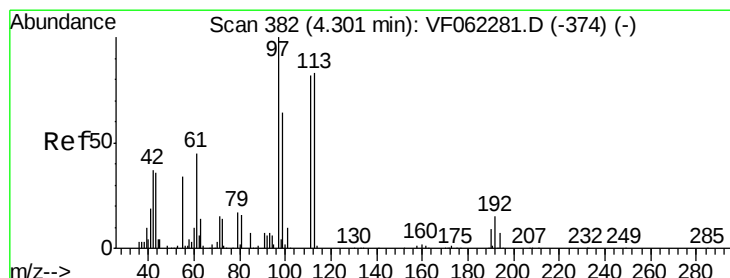
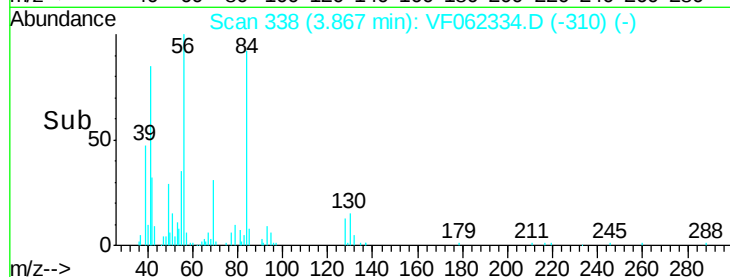
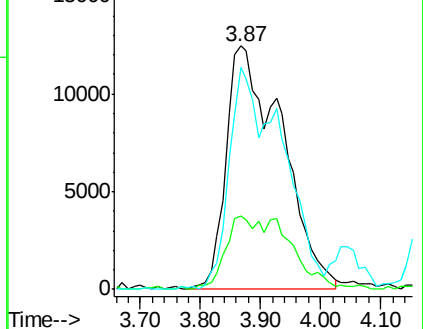
84 90.9 68.5 102.7



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0



#32

1,1,1-Trichloroethane

Concen: 24.711 ug/l m

RT: 4.28 min Scan# 380

Delta R.T. -0.02 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

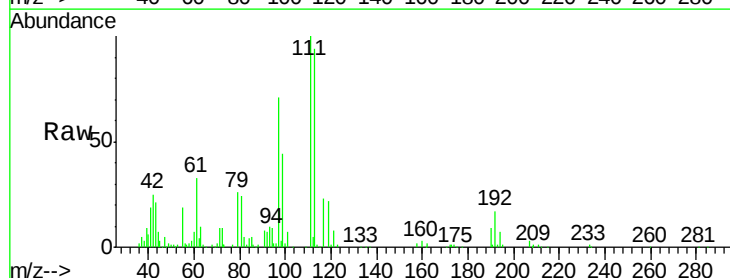
Tgt Ion: 97 Resp: 108268

Ion Ratio Lower Upper

97 100

99 50.6 41.6 62.4

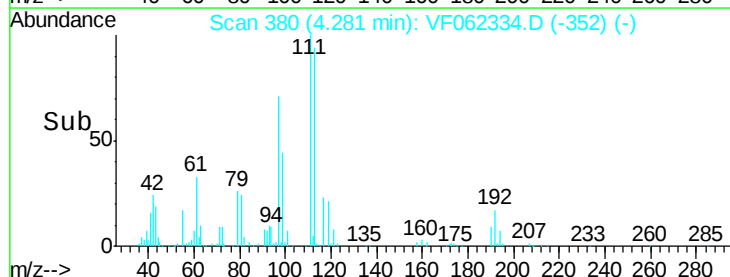
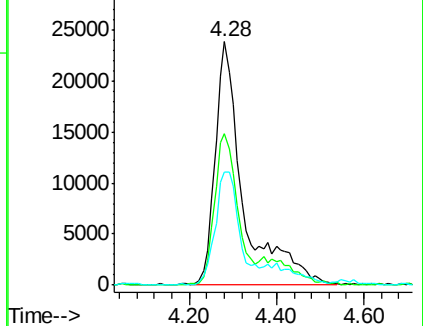
61 40.0 31.6 47.4

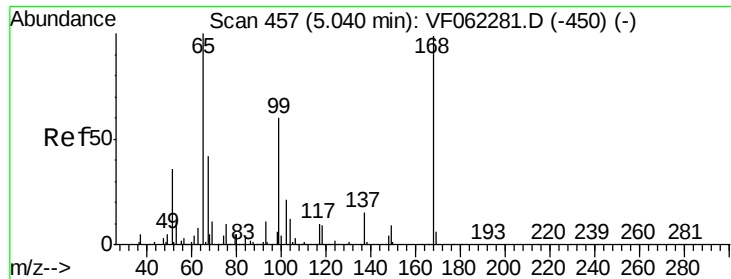


Abundance Ion 96.90 (96.60 to 97.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

Ion 60.90 (60.60 to 61.60): VF0





#33

1,2-Dichloroethane-d4

Concen: 58.736 ug/l

RT: 5.02 min Scan# 455

Delta R.T. -0.02 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

Instrument :

MSVOA_F

ClientSampleId :

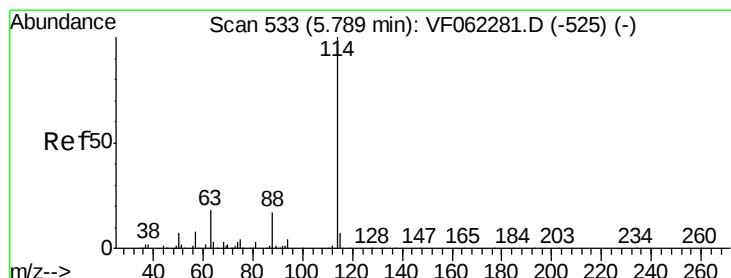
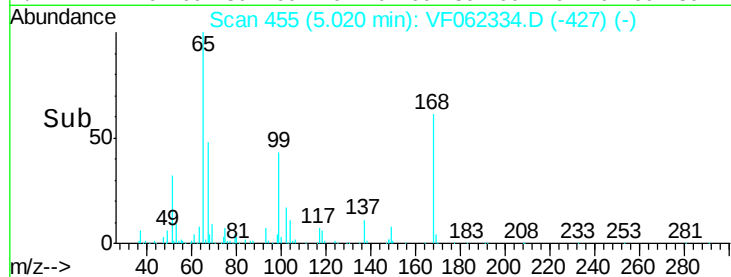
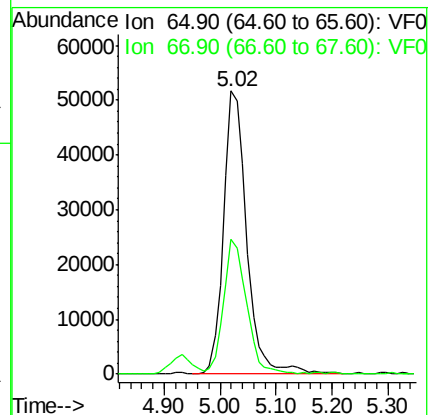
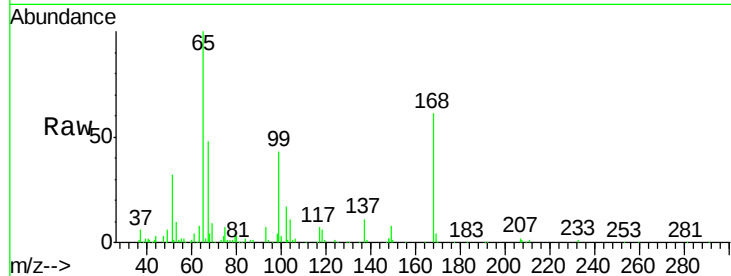
VF0430SBS01

Tot Ion: 65 Resp: 149873

Ion Ratio Lower Upper

65 100

67 46.4 0.0 98.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.77 min Scan# 531

Delta R.T. -0.02 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

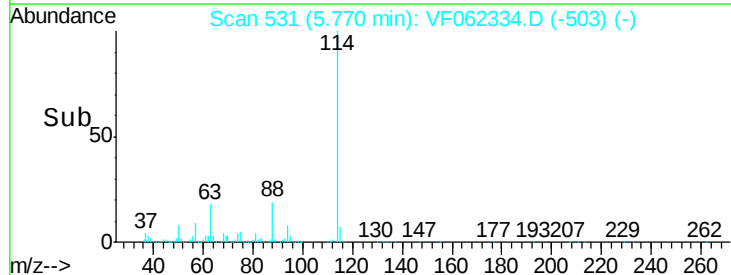
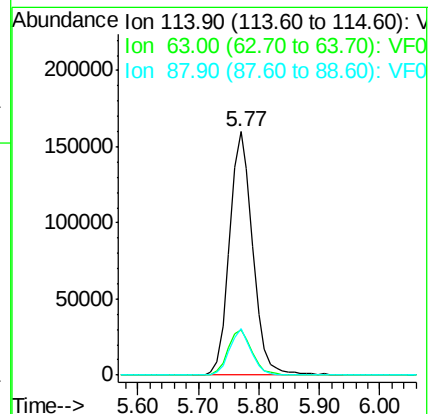
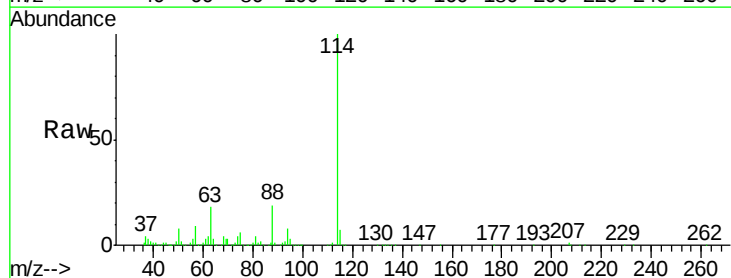
Tgt Ion: 114 Resp: 424824

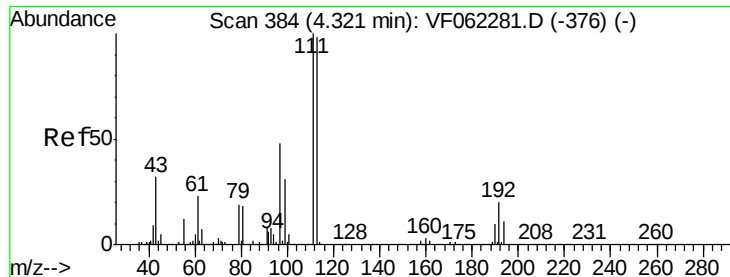
Ion Ratio Lower Upper

114 100

63 18.4 0.0 35.6

88 18.9 0.0 34.6

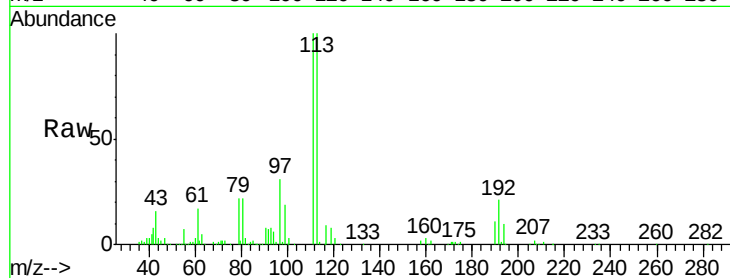




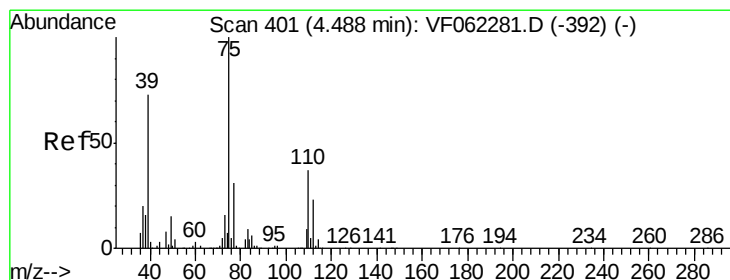
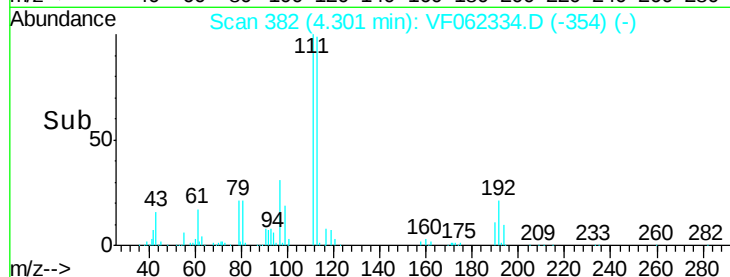
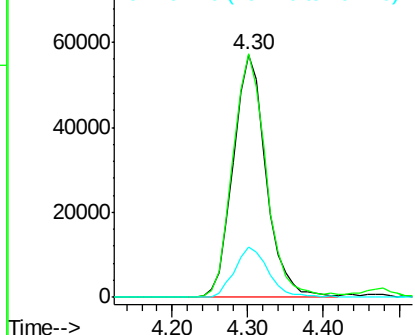
#35
 Dibromofluoromethane
 Concen: 54.576 ug/l
 RT: 4.30 min Scan# 382
 Delta R.T. -0.02 min
 Lab File: VF062334.D
 Acq: 30 Apr 2019 15:31

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0430SBS01

Tot Ion:113 Resp: 171908
 Ion Ratio Lower Upper
 113 100
 111 101.7 81.4 122.2
 192 21.7 17.0 25.4

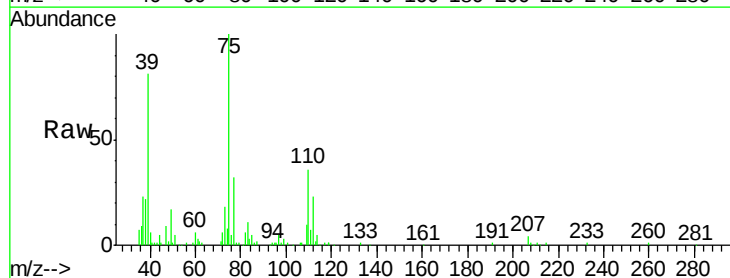


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

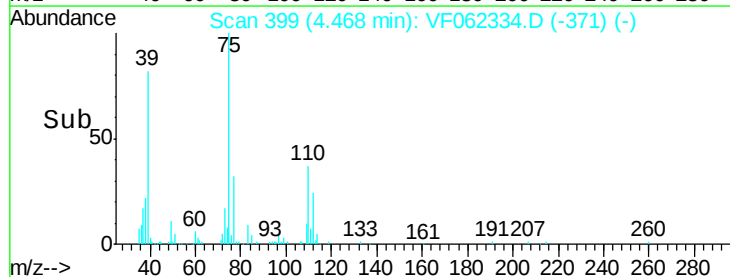
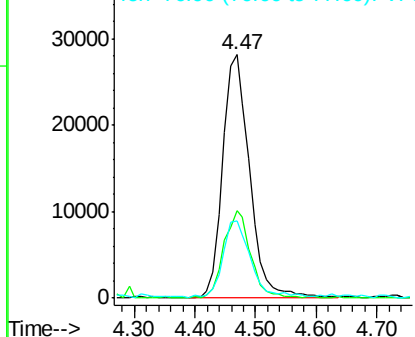


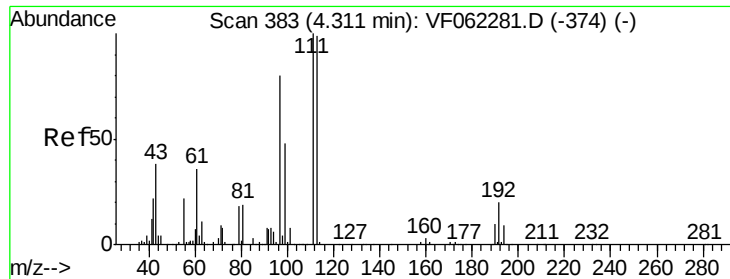
#36
 1,1-Dichloropropene
 Concen: 22.321 ug/l
 RT: 4.47 min Scan# 399
 Delta R.T. -0.02 min
 Lab File: VF062334.D
 Acq: 30 Apr 2019 15:31

Tgt Ion: 75 Resp: 87482
 Ion Ratio Lower Upper
 75 100
 110 35.6 17.9 53.8
 77 33.7 24.6 36.8



Abundance Ion 74.90 (74.60 to 75.60): VF0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VF0





#37

Ethyl Acetate

Concen: 22.091 ug/l

RT: 4.30 min Scan# 382

Delta R.T. -0.01 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

Instrument :

MSVOA_F

ClientSampleId :

VF0430SBS01

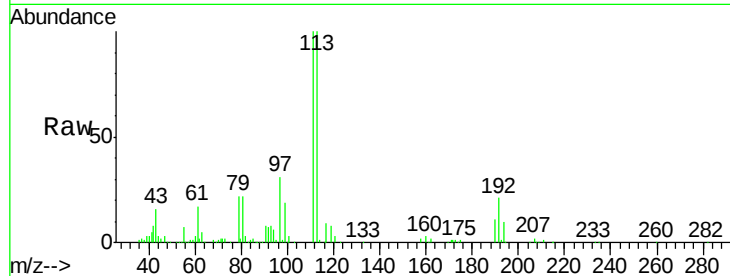
Tot Ion: 43 Resp: 36425

Ion Ratio Lower Upper

43 100

61 118.8 85.8 128.6

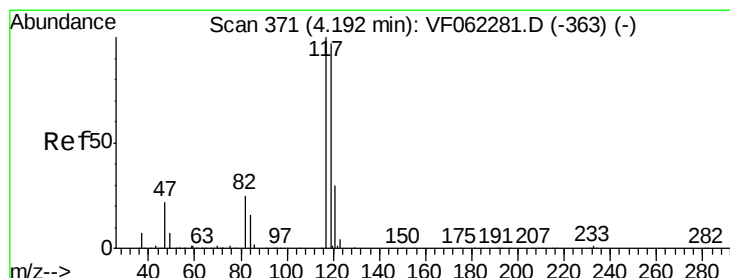
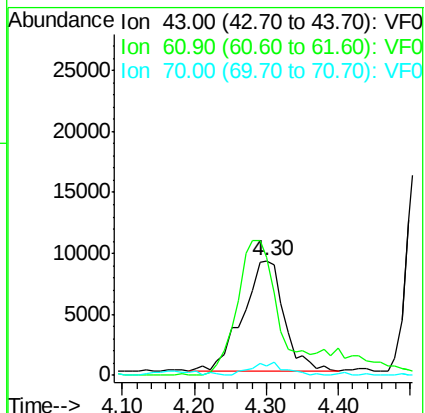
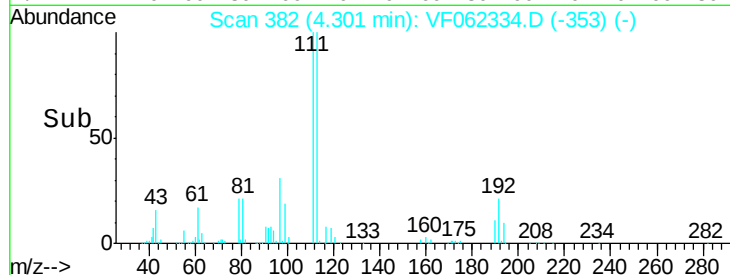
70 9.3 7.3 10.9



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 60.90 (60.60 to 61.60): VF0

Ion 70.00 (69.70 to 70.70): VF0



#38

Carbon Tetrachloride

Concen: 22.424 ug/l

RT: 4.17 min Scan# 369

Delta R.T. -0.02 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

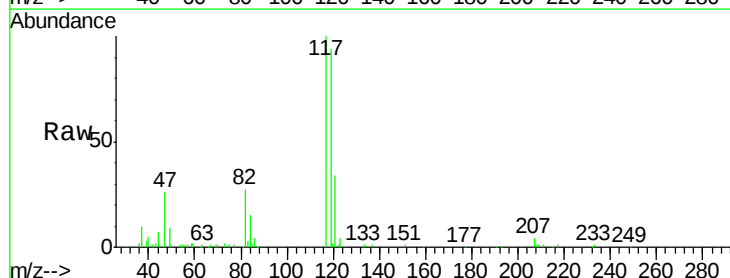
Tgt Ion: 117 Resp: 89346

Ion Ratio Lower Upper

117 100

119 93.7 77.3 115.9

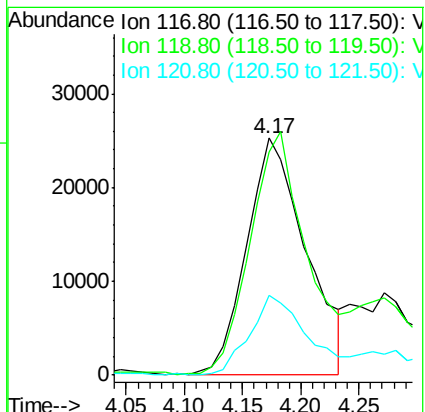
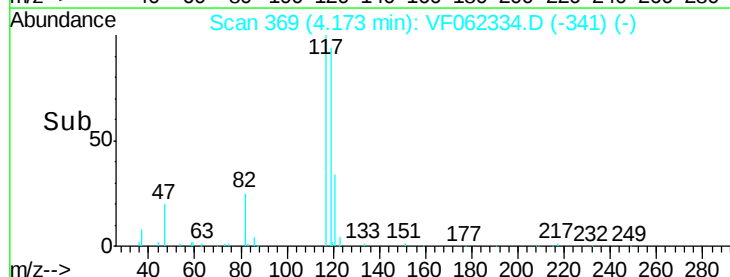
121 33.7 24.3 36.5

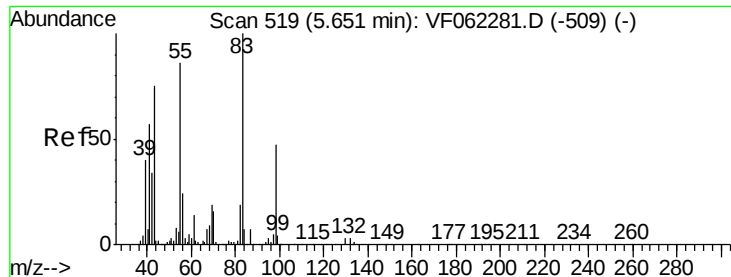


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

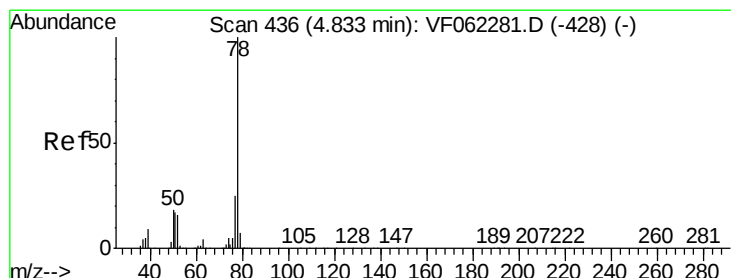
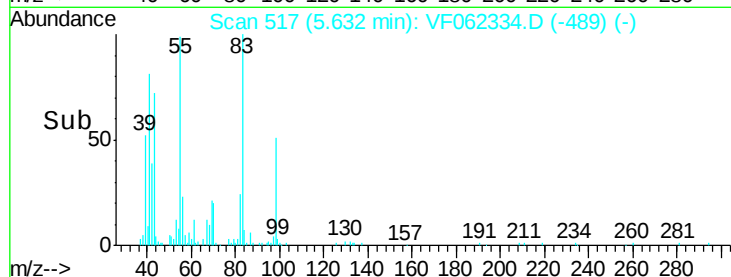
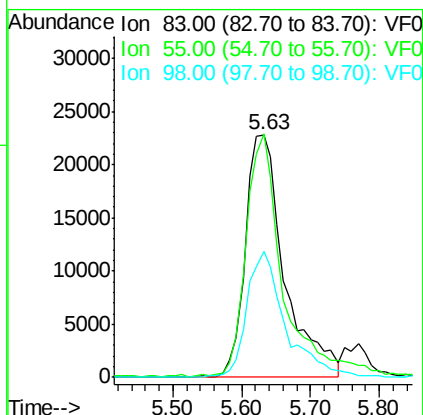
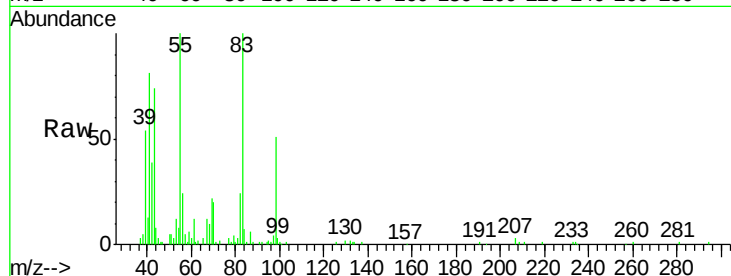




#39
Methvlcvclohexane
Concen: 19.788 ug/l
RT: 5.63 min Scan# 517
Delta R.T. -0.02 min
Lab File: VF062334.D
Acq: 30 Apr 2019 15:31

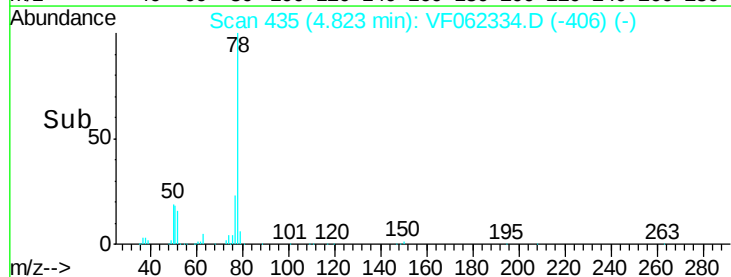
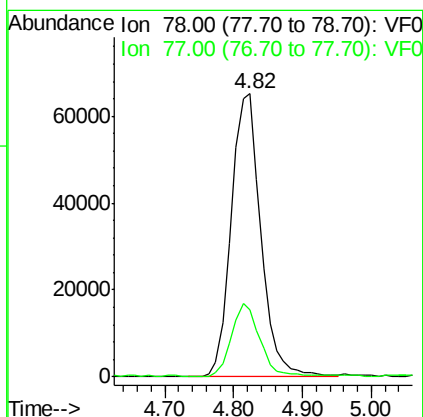
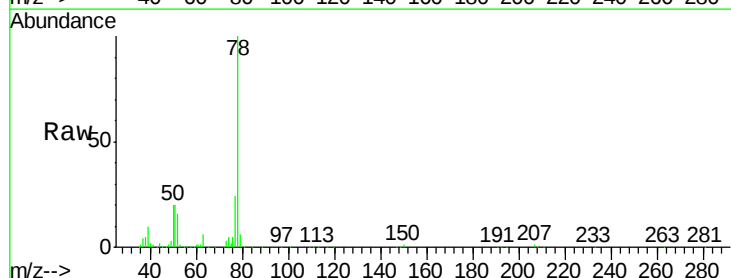
Instrument :
MSVOA_F
ClientSampleId :
VF0430SBS01

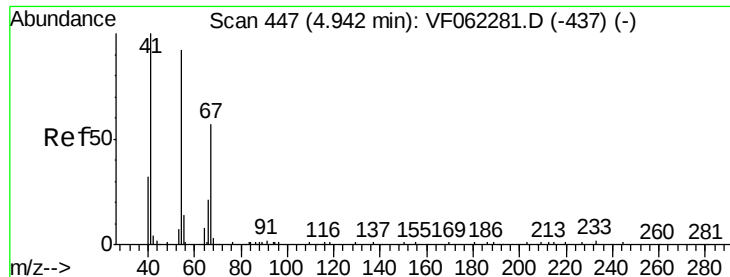
Tot Ion: 83 Resp: 90534
Ion Ratio Lower Upper
83 100
55 100.2 68.7 103.1
98 51.6 37.4 56.2



#40
Benzene
Concen: 20.576 ug/l
RT: 4.82 min Scan# 435
Delta R.T. -0.01 min
Lab File: VF062334.D
Acq: 30 Apr 2019 15:31

Tgt Ion: 78 Resp: 194836
Ion Ratio Lower Upper
78 100
77 23.5 19.7 29.5

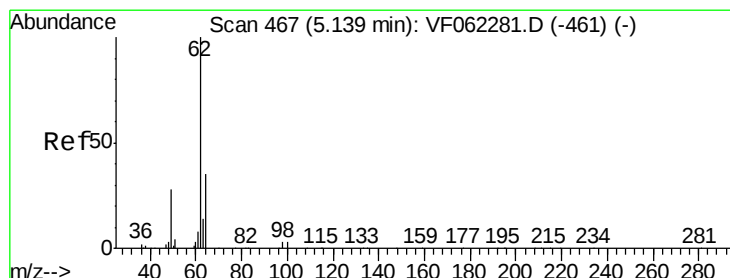
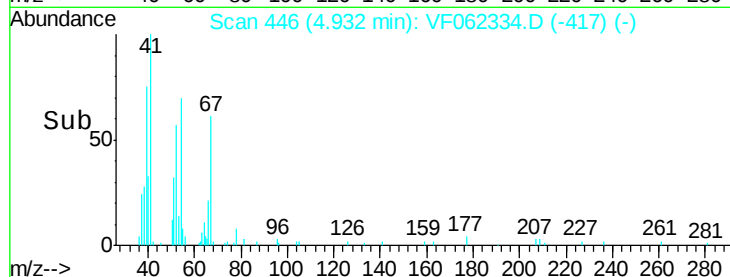
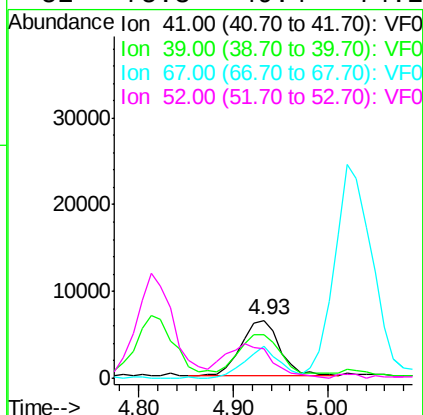
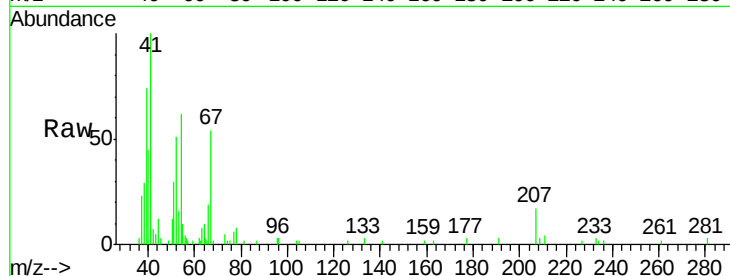




#41
Methacrylonitrile
Concen: 19.957 ug/l
RT: 4.93 min Scan# 446
Delta R.T. -0.01 min
Lab File: VF062334.D
Acq: 30 Apr 2019 15:31

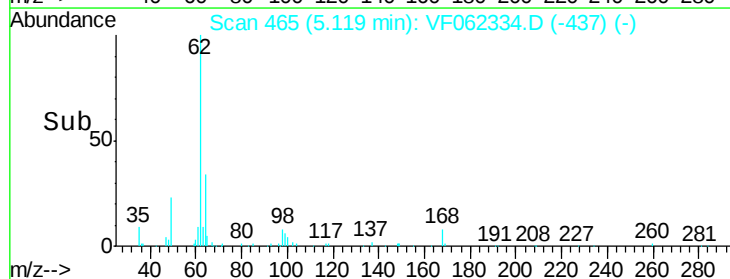
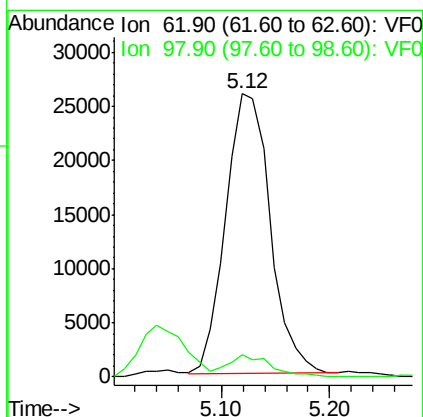
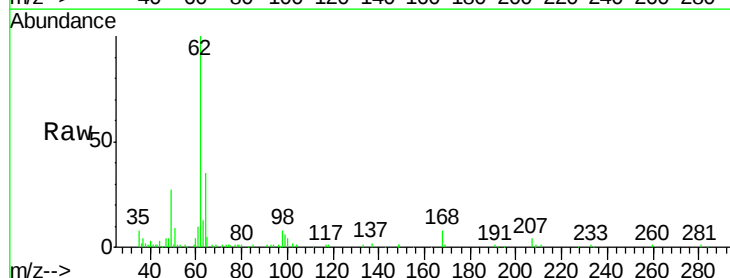
Instrument :
MSVOA_F
ClientSampleId :
VF0430SBS01

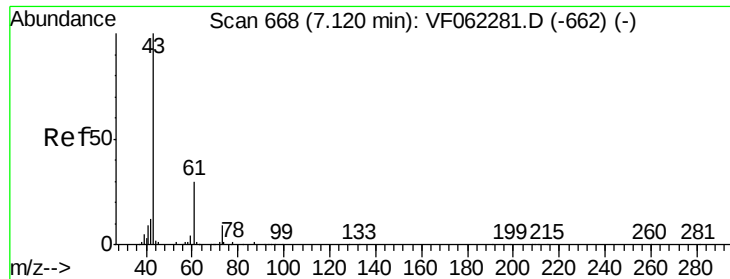
Tot Ion:	41	Resp:	18281
Ion	Ratio	Lower	Upper
41	100		
39	82.1	47.3	70.9#
67	52.1	41.3	61.9
52	75.3	49.4	74.2#



#42
1,2-Dichloroethane
Concen: 24.769 ug/l
RT: 5.12 min Scan# 465
Delta R.T. -0.02 min
Lab File: VF062334.D
Acq: 30 Apr 2019 15:31

Tgt Ion:	62	Resp:	74304
Ion	Ratio	Lower	Upper
62	100		
98	7.6	0.0	16.8



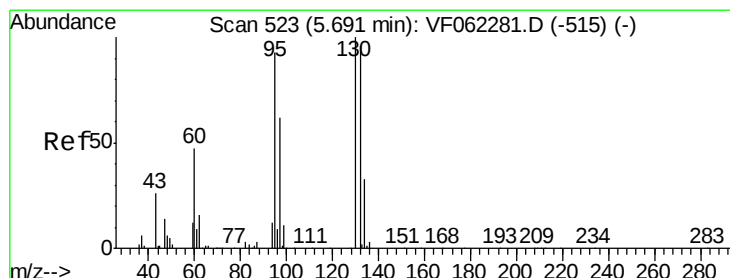
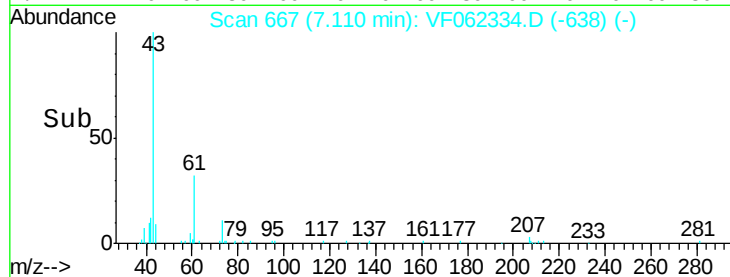
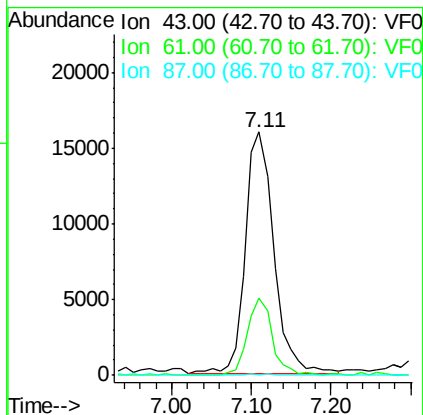
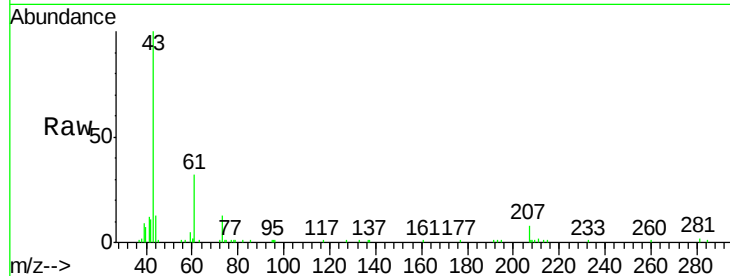


#43

Isopropyl Acetate
 Concen: 23.169 ug/l
 RT: 7.11 min Scan# 667
 Delta R.T. -0.01 min
 Lab File: VF062334.D
 Acq: 30 Apr 2019 15:31

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0430SBS01

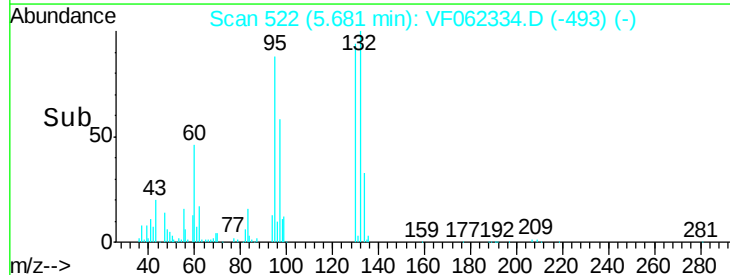
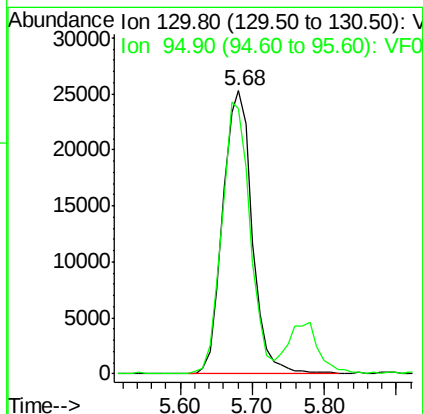
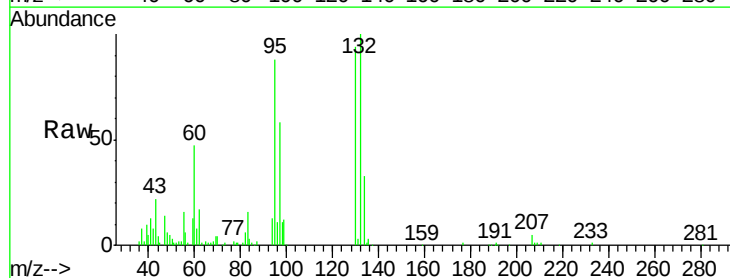
Tot Ion: 43 Resp: 39339
 Ion Ratio Lower Upper
 43 100
 61 27.9 23.8 35.6
 87 0.4 0.5 0.7#

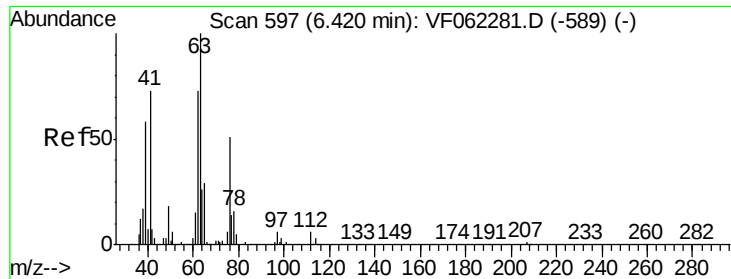


#44

Trichloroethene
 Concen: 22.208 ug/l
 RT: 5.68 min Scan# 522
 Delta R.T. -0.01 min
 Lab File: VF062334.D
 Acq: 30 Apr 2019 15:31

Tgt Ion: 130 Resp: 71150
 Ion Ratio Lower Upper
 130 100
 95 94.0 0.0 186.4





#45

1,2-Dichloropropane

Concen: 19.753 ug/l

RT: 6.40 min Scan# 595

Delta R.T. -0.02 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

Instrument :

MSVOA_F

ClientSampleId :

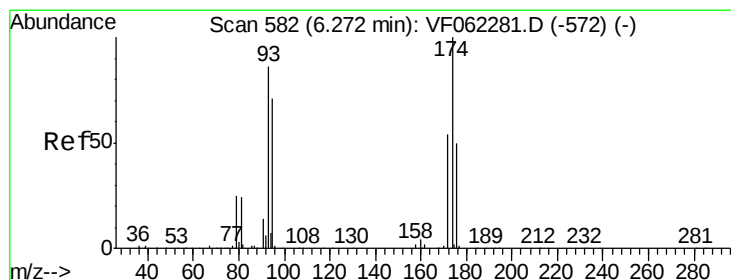
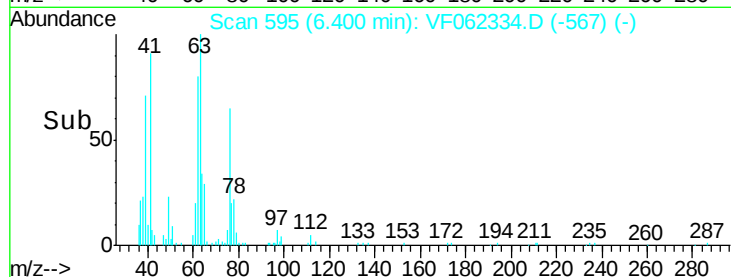
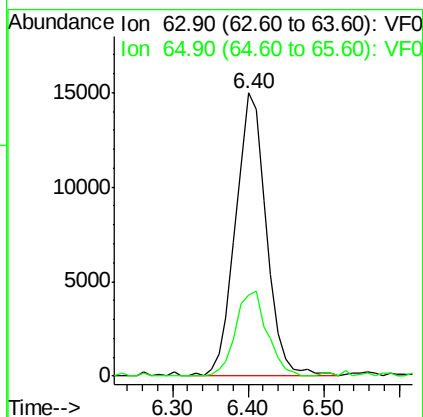
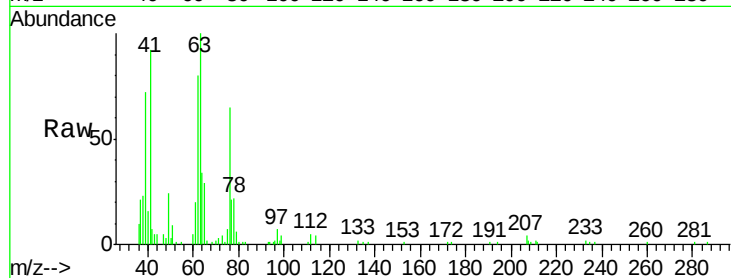
VF0430SBS01

Tot Ion: 63 Resp: 42174

Ion Ratio Lower Upper

63 100

65 28.8 23.5 35.3



#46

Dibromomethane

Concen: 23.793 ug/l

RT: 6.25 min Scan# 580

Delta R.T. -0.02 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

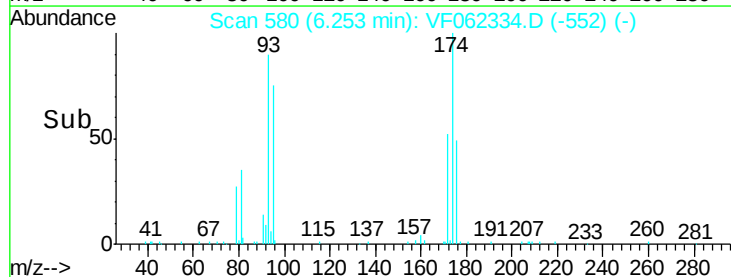
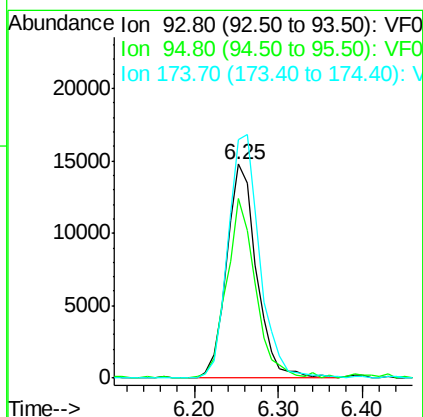
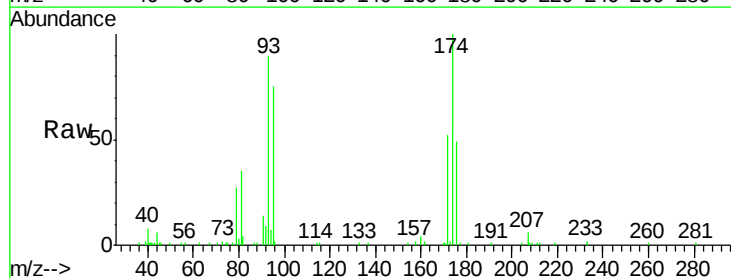
Tgt Ion: 93 Resp: 36680

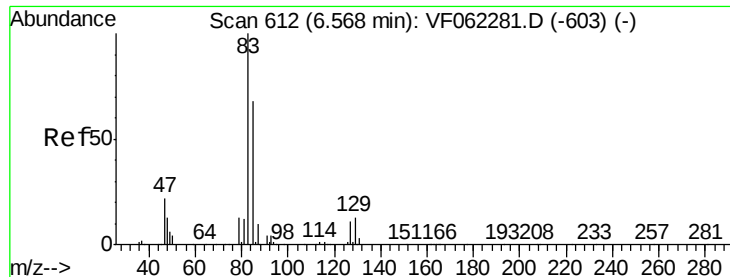
Ion Ratio Lower Upper

93 100

95 80.1 66.2 99.4

174 120.3 94.9 142.3





#47

Bromodichloromethane

Concen: 24.018 ug/l

RT: 6.55 min Scan# 610

Delta R.T. -0.02 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

Instrument :

MSVOA_F

ClientSampleId :

VF0430SBS01

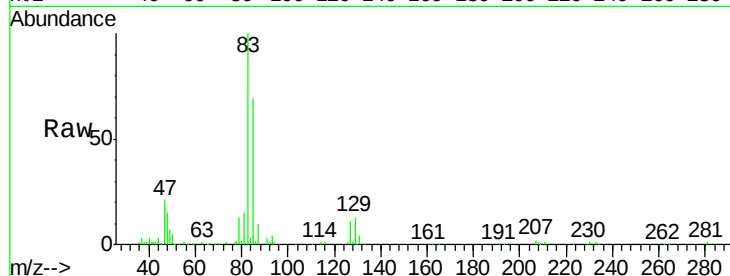
Tot Ion: 83 Resp: 87045

Ion Ratio Lower Upper

83 100

85 68.8 54.6 81.8

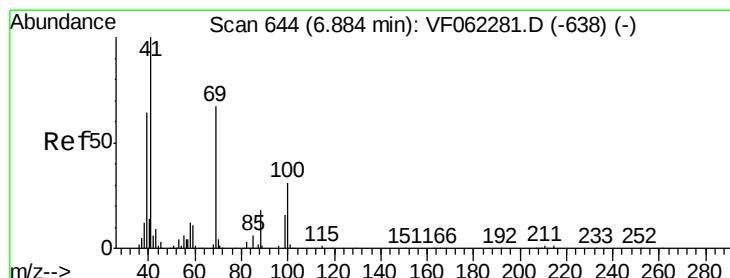
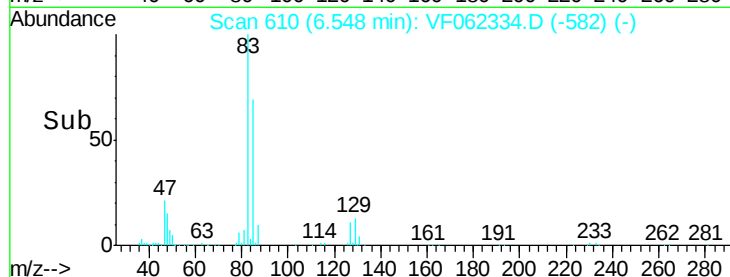
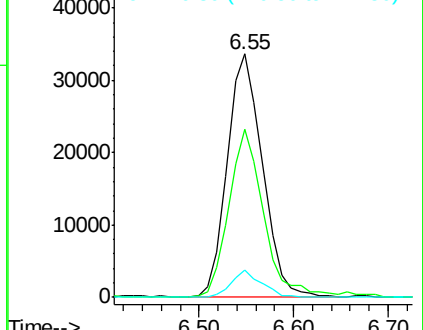
127 11.1 8.7 13.1



Abundance Ion 82.90 (82.60 to 83.60): VF0

Ion 84.90 (84.60 to 85.60): VF0

Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 19.920 ug/l

RT: 6.87 min Scan# 643

Delta R.T. -0.01 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

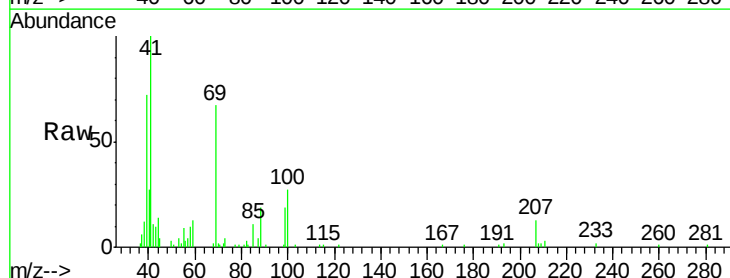
Tgt Ion: 41 Resp: 24064

Ion Ratio Lower Upper

41 100

69 71.2 53.4 80.2

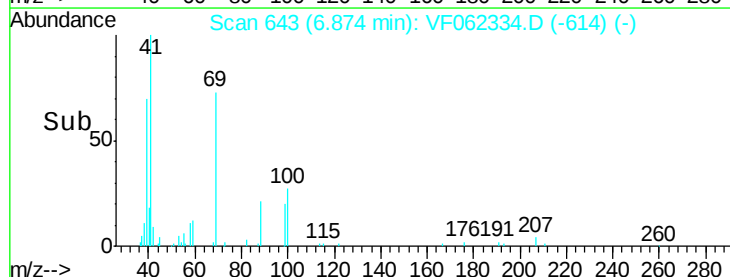
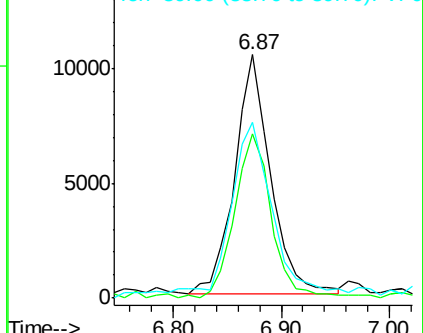
39 90.3 50.9 76.3#

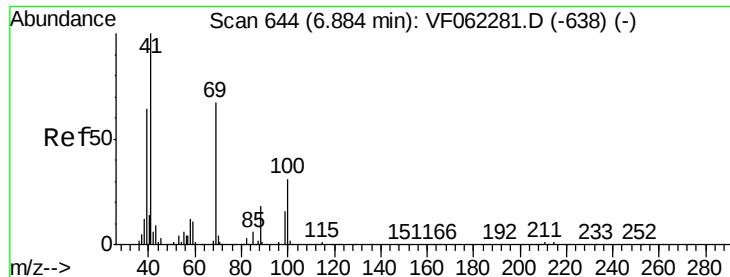


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

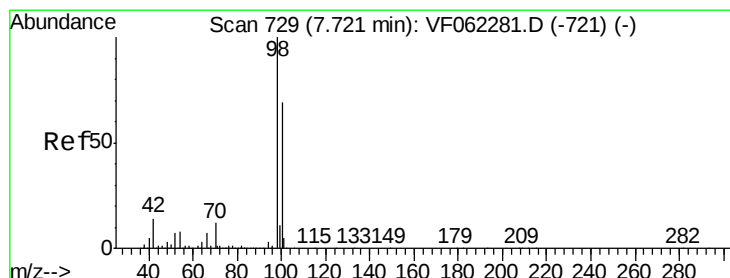
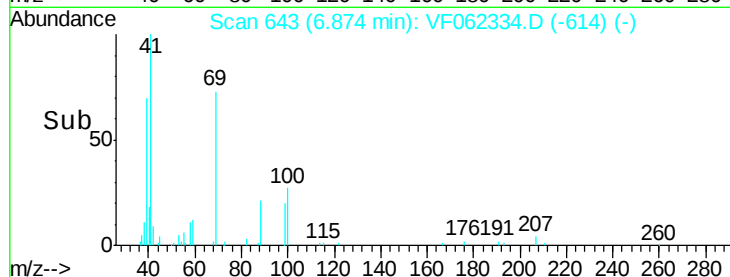
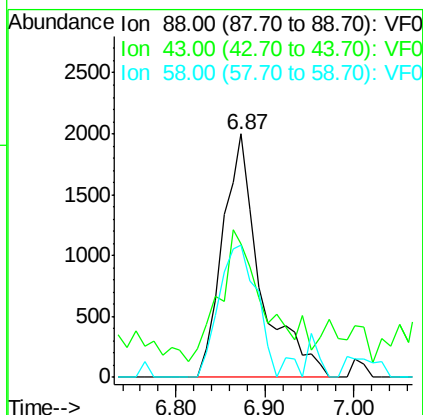
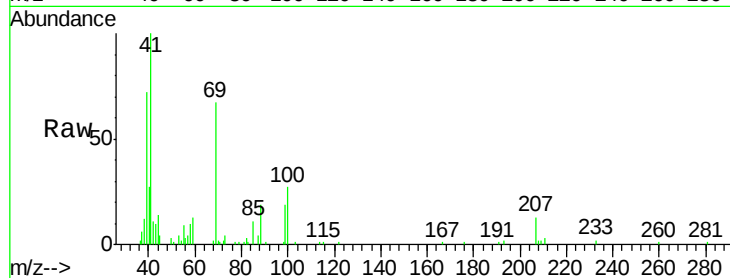




#49
1,4-Dioxane
Concen: 427.162 ug/l
RT: 6.87 min Scan# 643
Delta R.T. -0.01 min
Lab File: VF062334.D
Acq: 30 Apr 2019 15:31

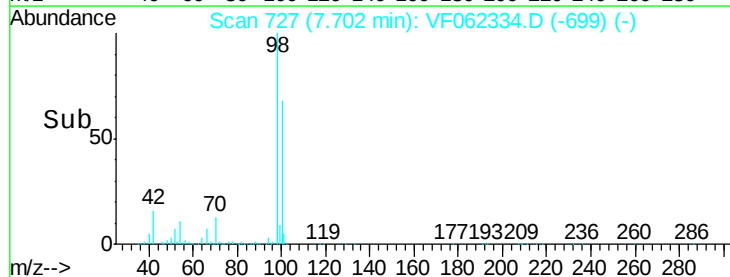
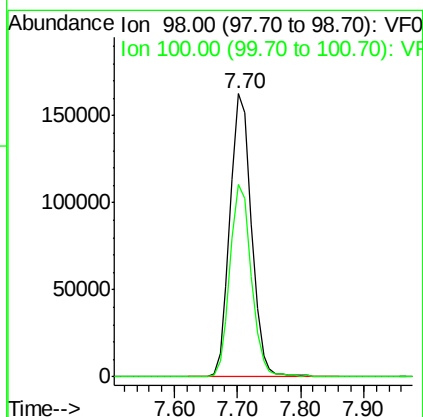
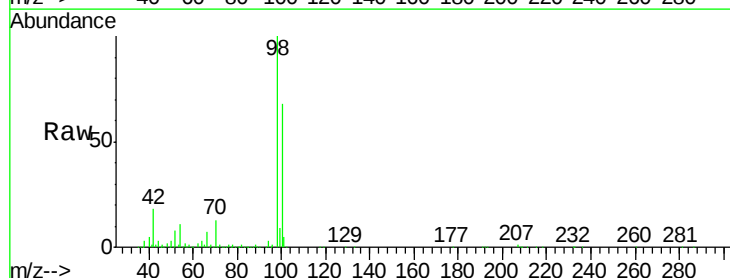
Instrument :
MSVOA_F
ClientSampleId :
VF0430SBS01

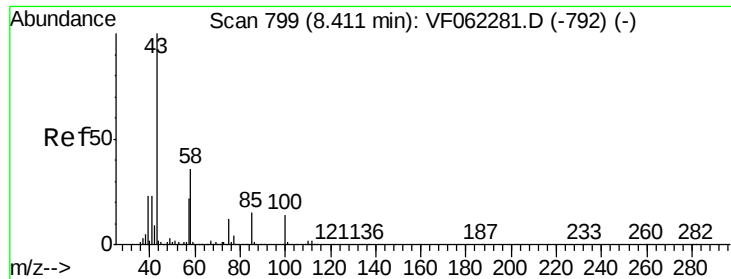
Tot Ion: 88 Resp: 5942
Ion Ratio Lower Upper
88 100
43 59.9 34.2 51.4#
58 54.5 50.7 76.1



#50
Toluene-d8
Concen: 49.769 ug/l
RT: 7.70 min Scan# 727
Delta R.T. -0.02 min
Lab File: VF062334.D
Acq: 30 Apr 2019 15:31

Tgt Ion: 98 Resp: 382913
Ion Ratio Lower Upper
98 100
100 67.7 54.4 81.6





#51

4-Methyl-2-Pentanone

Concen: 114.319 ug/l

RT: 8.40 min Scan# 798

Delta R.T. -0.01 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

Instrument :

MSVOA_F

ClientSampleId :

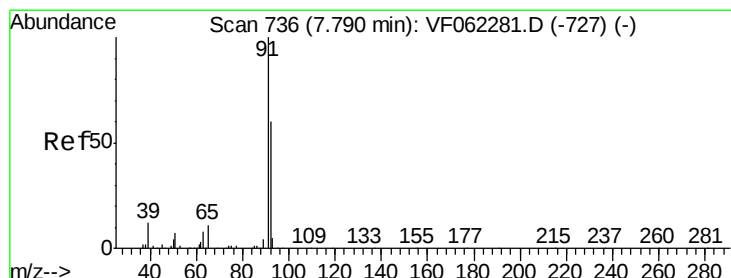
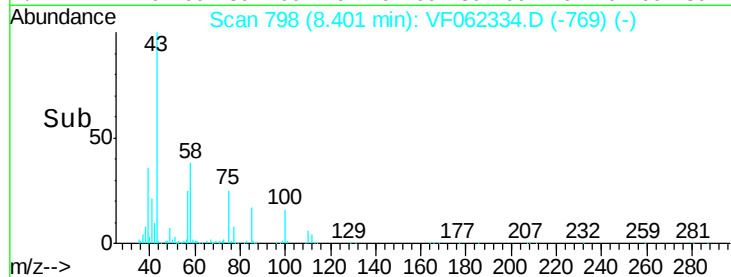
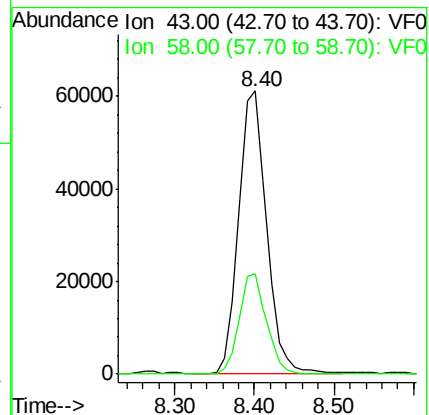
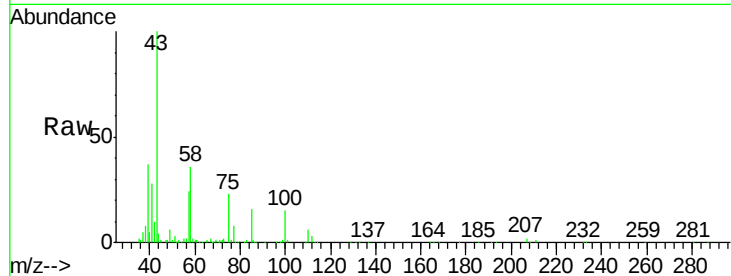
VF0430SBS01

Tot Ion: 43 Resp: 148520

Ion Ratio Lower Upper

43 100

58 34.7 29.1 43.7



#52

Toluene

Concen: 21.482 ug/l

RT: 7.77 min Scan# 734

Delta R.T. -0.02 min

Lab File: VF062334.D

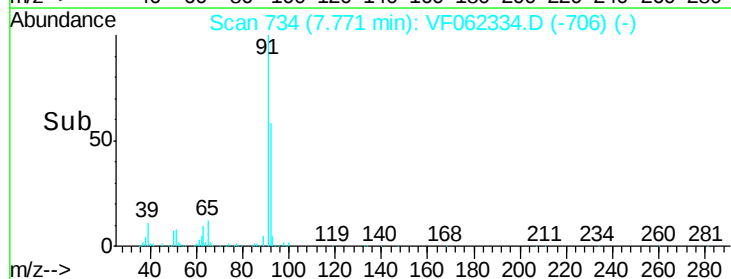
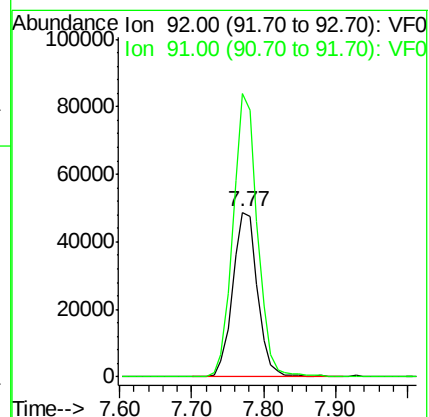
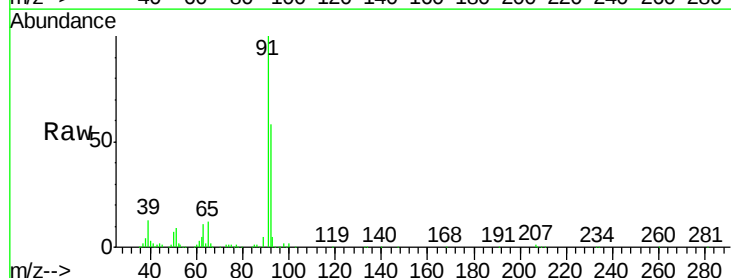
Acq: 30 Apr 2019 15:31

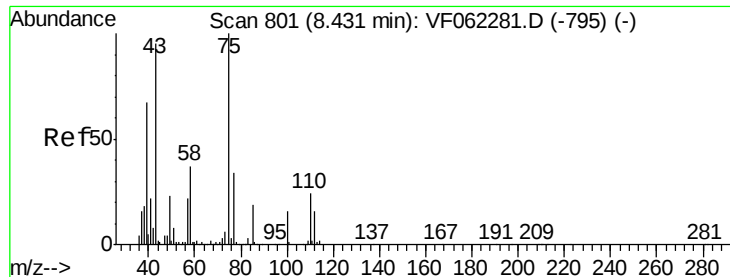
Tgt Ion: 92 Resp: 117383

Ion Ratio Lower Upper

92 100

91 168.8 132.5 198.7





#53

t-1,3-Dichloropropene

Concen: 23.943 ug/l

RT: 8.42 min Scan# 800

Delta R.T. -0.01 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

Instrument :

MSVOA_F

ClientSampleId :

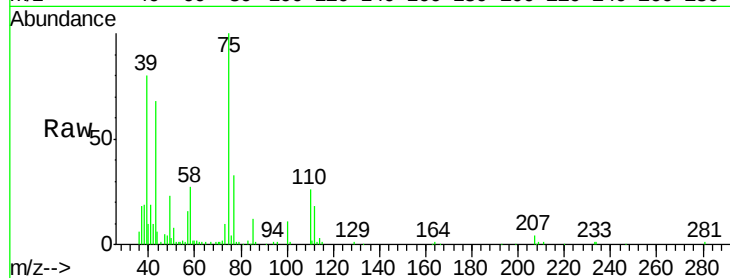
VF0430SBS01

Tot Ion: 75 Resp: 63808

Ion Ratio Lower Upper

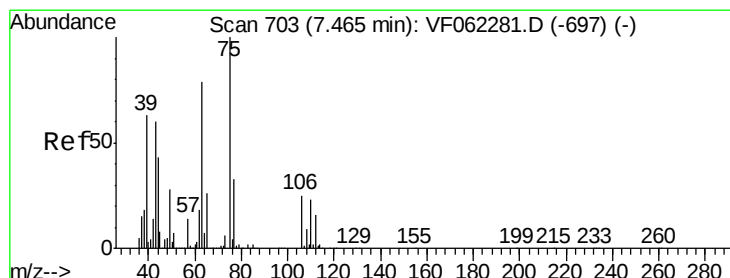
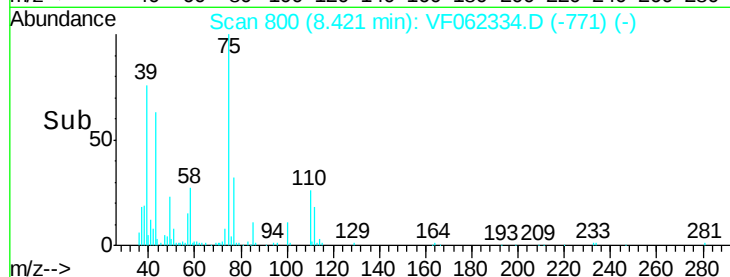
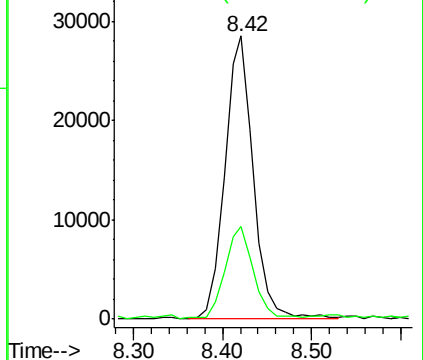
75 100

77 32.4 26.9 40.3



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 76.90 (76.60 to 77.60): VF0



#54

cis-1,3-Dichloropropene

Concen: 22.571 ug/l

RT: 7.46 min Scan# 702

Delta R.T. -0.01 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

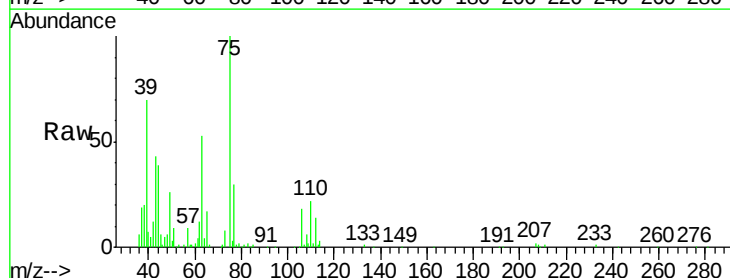
Tgt Ion: 75 Resp: 77058

Ion Ratio Lower Upper

75 100

77 29.7 26.5 39.7

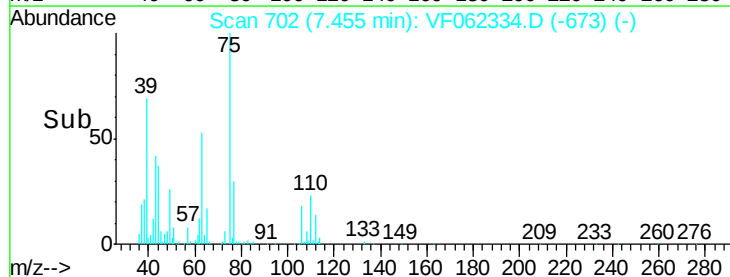
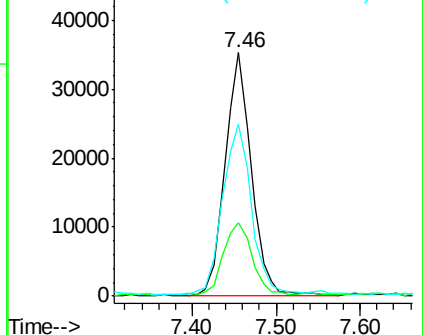
39 69.9 50.2 75.2

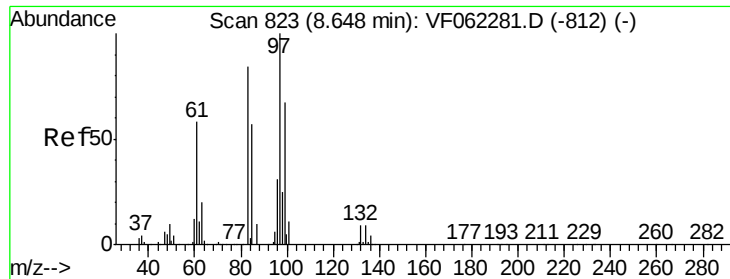


Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 76.90 (76.60 to 77.60): VF0

Ion 39.00 (38.70 to 39.70): VF0





#55

1,1,2-Trichloroethane

Concen: 21.970 ug/l

RT: 8.63 min Scan# 821

Delta R.T. -0.02 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

Instrument :

MSVOA_F

ClientSampleId :

VF0430SBS01

Tot Ion: 97 Resp: 34095

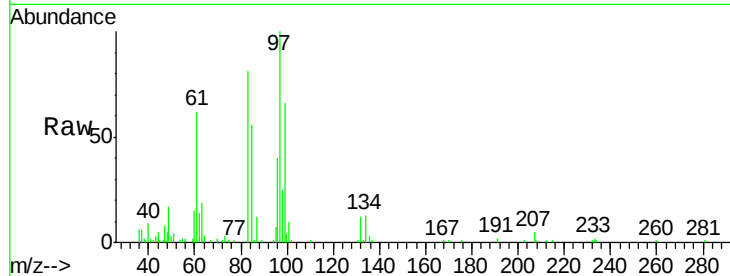
Ion Ratio Lower Upper

97 100

83 80.5 67.5 101.3

85 56.0 45.3 67.9

99 66.1 53.4 80.0

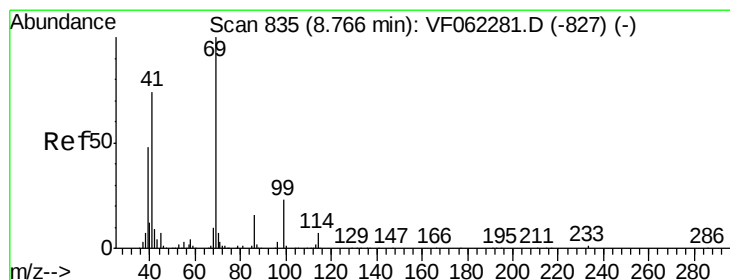
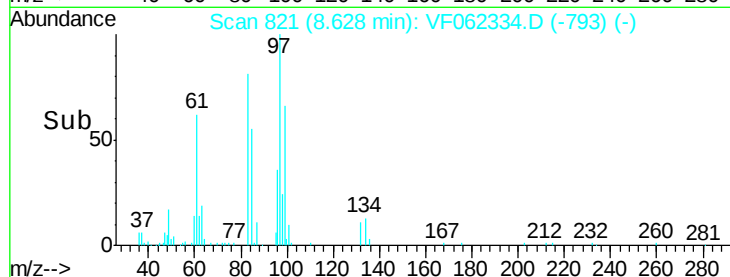
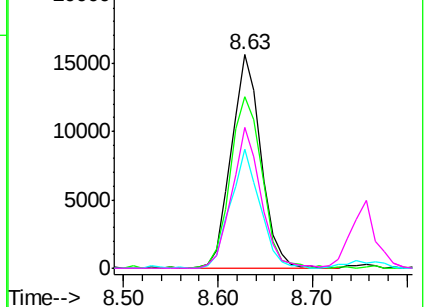


Abundance Ion 96.90 (96.60 to 97.60): VF0

Ion 82.90 (82.60 to 83.60): VF0

Ion 84.90 (84.60 to 85.60): VF0

Ion 98.90 (98.60 to 99.60): VF0



#56

Ethyl methacrylate

Concen: 20.620 ug/l

RT: 8.75 min Scan# 833

Delta R.T. -0.02 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

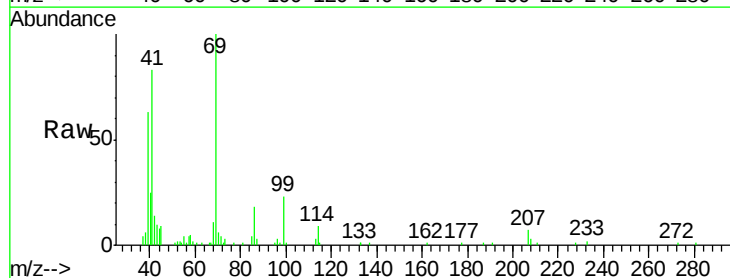
Tgt Ion: 69 Resp: 35154

Ion Ratio Lower Upper

69 100

41 82.1 61.5 92.3

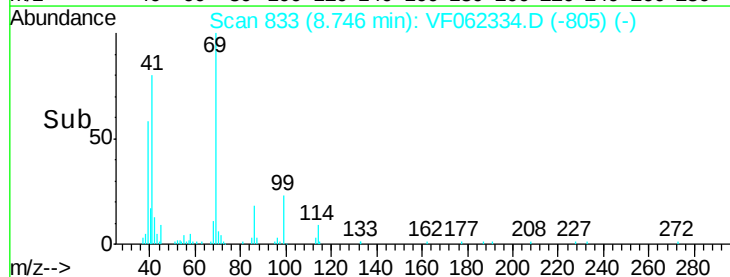
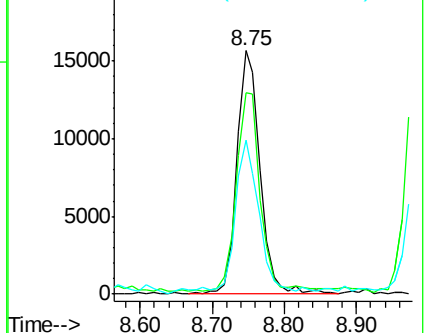
39 60.6 37.9 56.9#

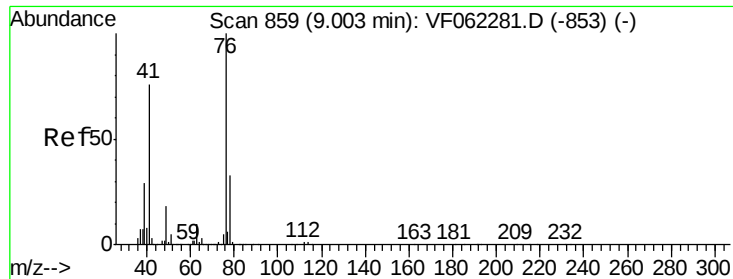


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 21.982 ug/l

RT: 8.99 min Scan# 858

Delta R.T. -0.01 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

Instrument :

MSVOA_F

ClientSampleId :

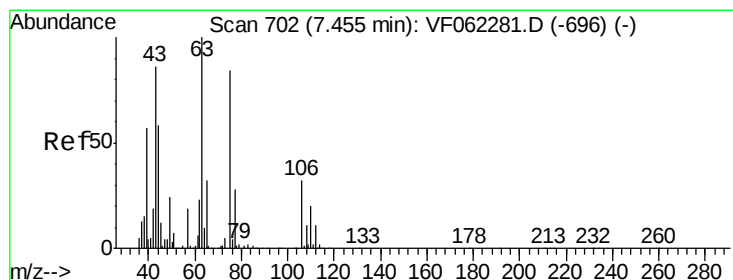
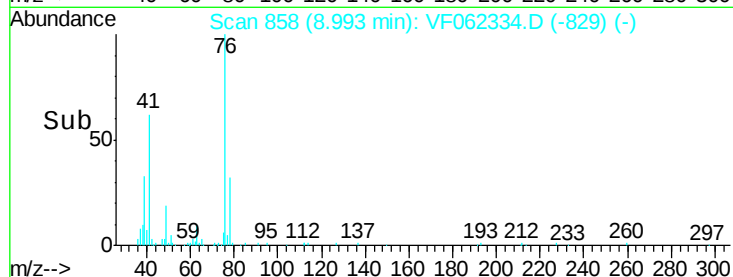
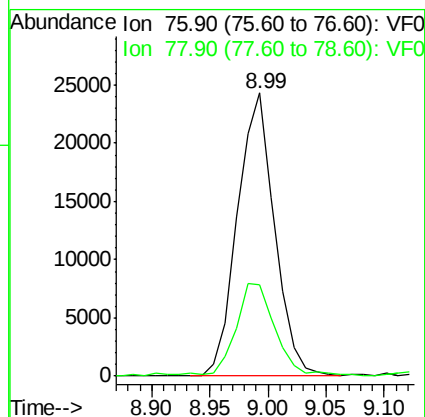
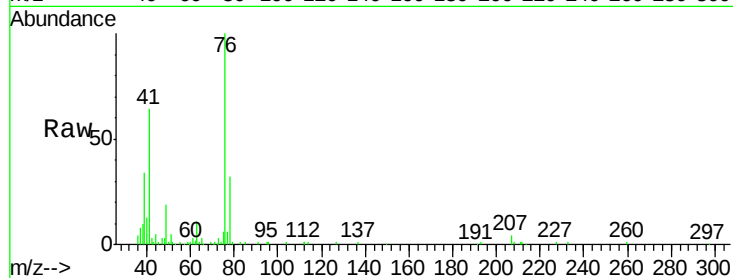
VF0430SBS01

Tot Ion: 76 Resp: 53635

Ion Ratio Lower Upper

76 100

78 35.1 27.0 40.6



#58

2-Chloroethyl Vinyl ether

Concen: 102.170 ug/l

RT: 7.45 min Scan# 701

Delta R.T. -0.01 min

Lab File: VF062334.D

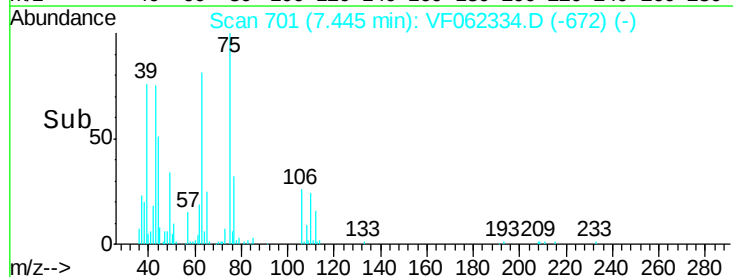
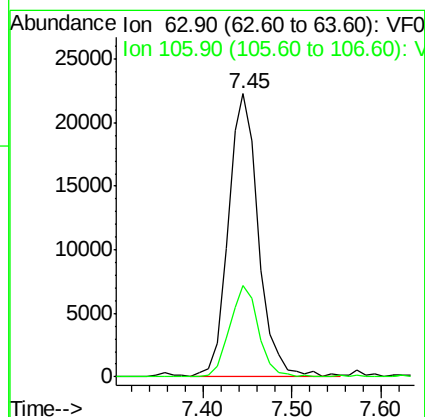
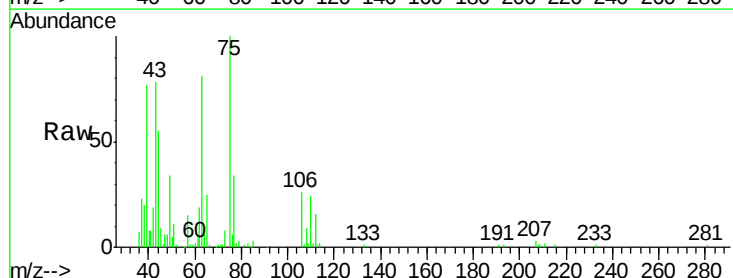
Acq: 30 Apr 2019 15:31

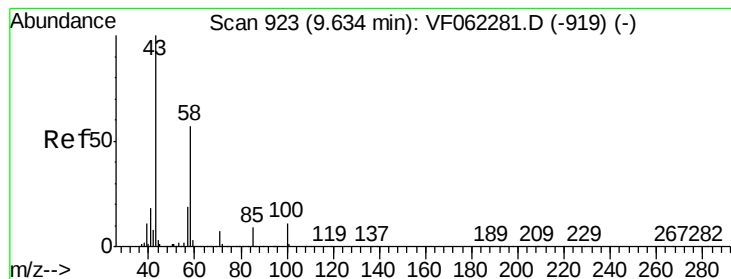
Tgt Ion: 63 Resp: 53004

Ion Ratio Lower Upper

63 100

106 30.7 24.7 37.1





#59

2-Hexanone

Concen: 119.839 ug/l

RT: 9.61 min Scan# 921

Delta R.T. -0.02 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

Instrument :

MSVOA_F

ClientSampleId :

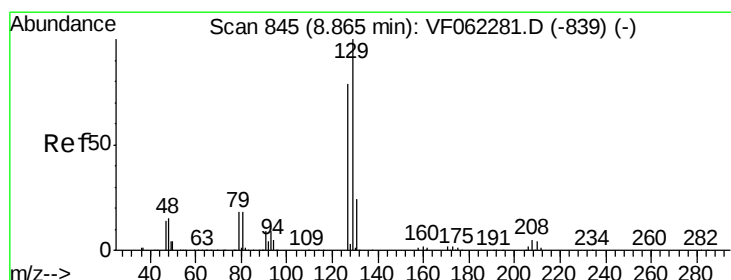
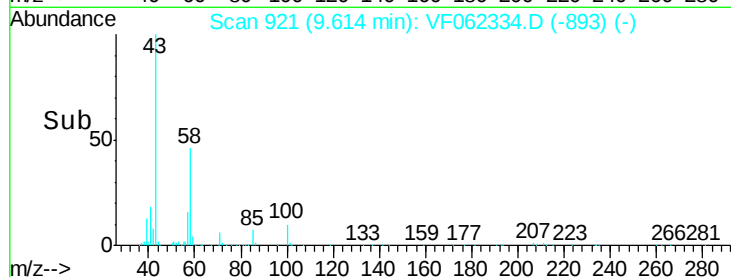
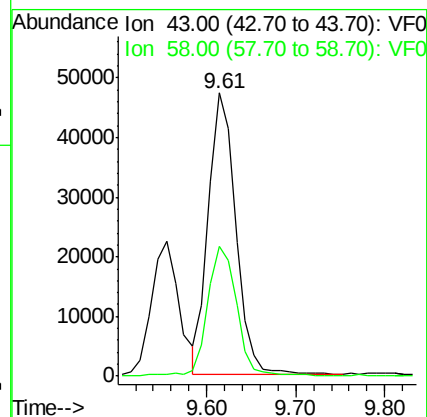
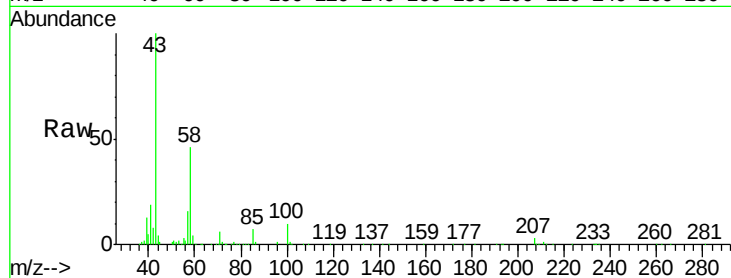
VF0430SBS01

Tot Ion: 43 Resp: 100896

Ion Ratio Lower Upper

43 100

58 49.5 24.9 74.7



#60

Dibromochloromethane

Concen: 24.128 ug/l

RT: 8.85 min Scan# 844

Delta R.T. -0.01 min

Lab File: VF062334.D

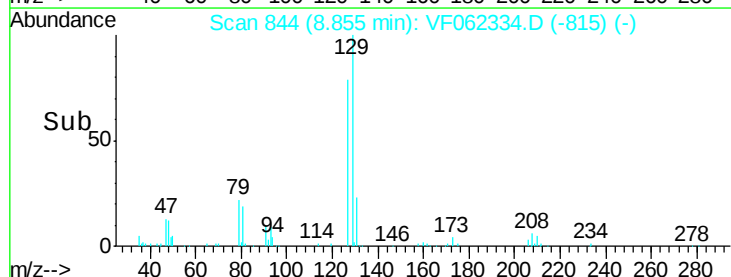
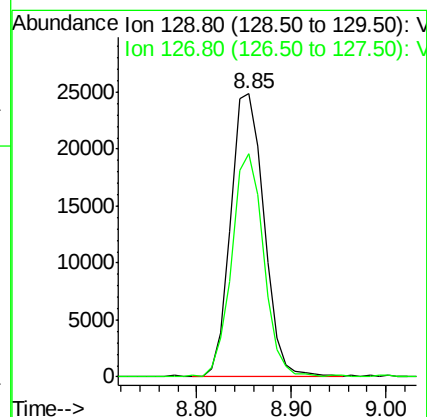
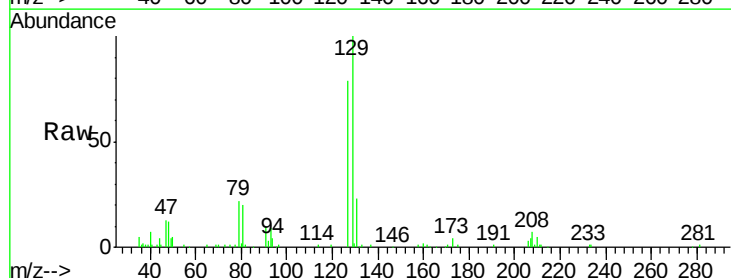
Acq: 30 Apr 2019 15:31

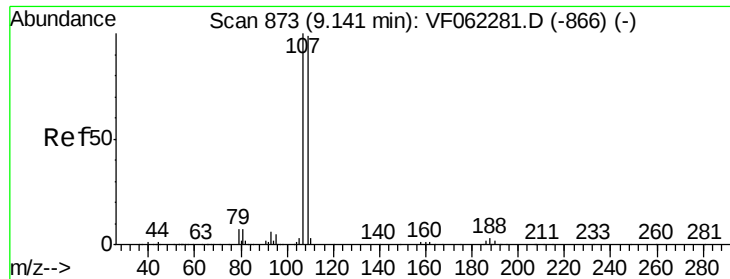
Tgt Ion: 129 Resp: 60772

Ion Ratio Lower Upper

129 100

127 75.5 38.8 116.4





#61

1,2-Dibromoethane

Concen: 21.808 ug/l

RT: 9.13 min Scan# 872

Delta R.T. -0.01 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

Instrument :

MSVOA_F

ClientSampleId :

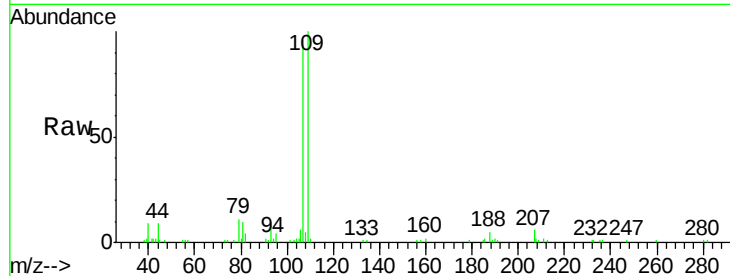
VF0430SBS01

Tot Ion:107 Resp: 39170

Ion Ratio Lower Upper

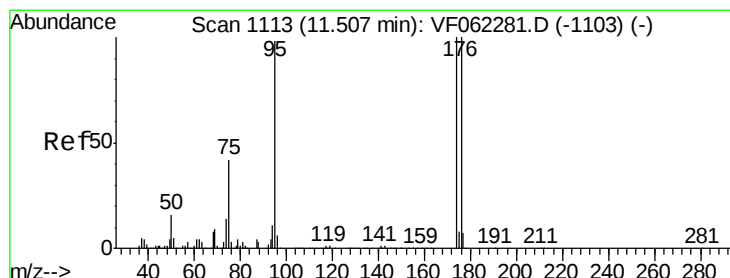
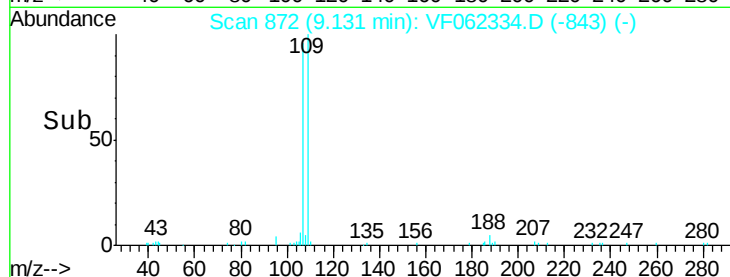
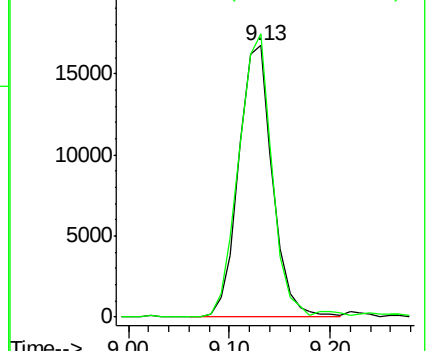
107 100

109 101.8 78.7 118.1



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 52.476 ug/l

RT: 11.49 min Scan# 1111

Delta R.T. -0.02 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

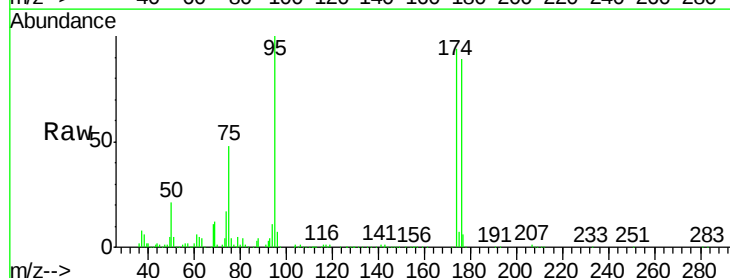
Tgt Ion: 95 Resp: 166417

Ion Ratio Lower Upper

95 100

174 101.8 0.0 185.2

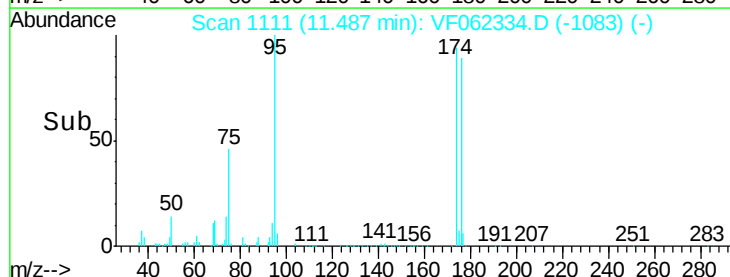
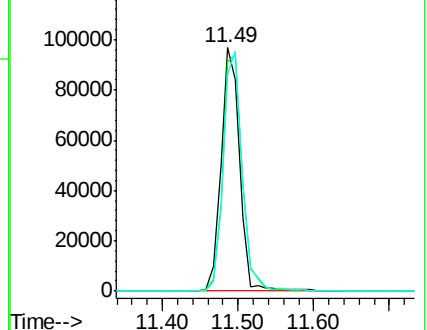
176 100.2 0.0 184.8

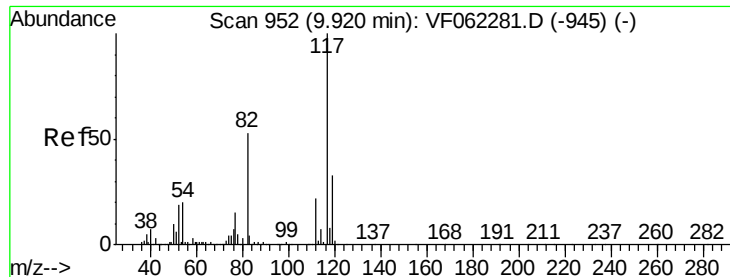


Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.90 min Scan# 950

Delta R.T. -0.02 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

Instrument :

MSVOA_F

ClientSampleId :

VF0430SBS01

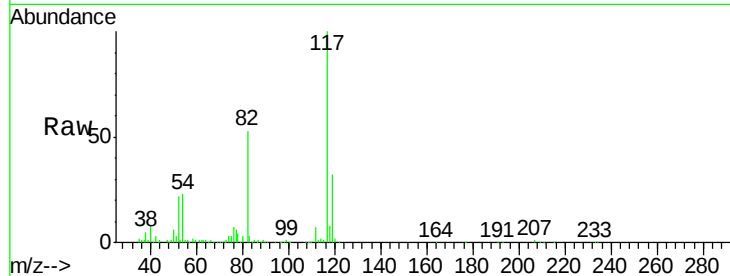
Tot Ion:117 Resp: 338425

Ion Ratio Lower Upper

117 100

82 53.2 42.6 64.0

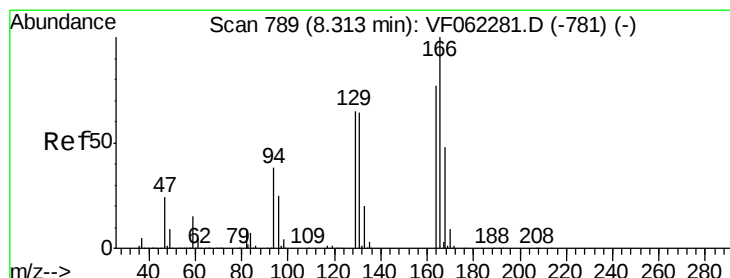
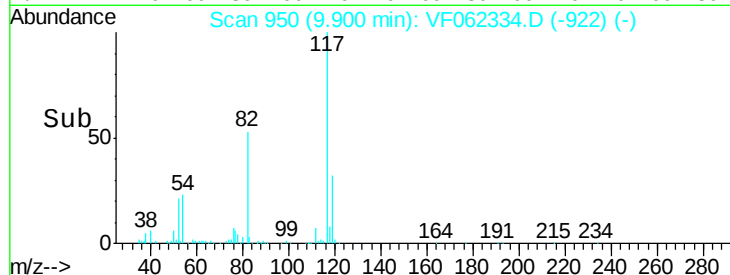
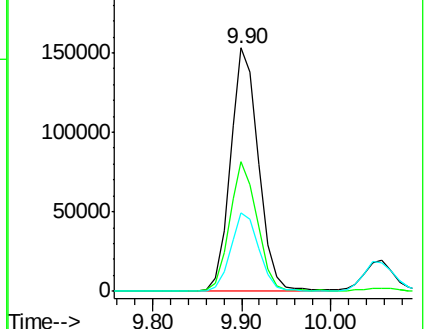
119 32.3 26.1 39.1



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 23.606 ug/l

RT: 8.30 min Scan# 788

Delta R.T. -0.01 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

Tgt Ion:164 Resp: 66820

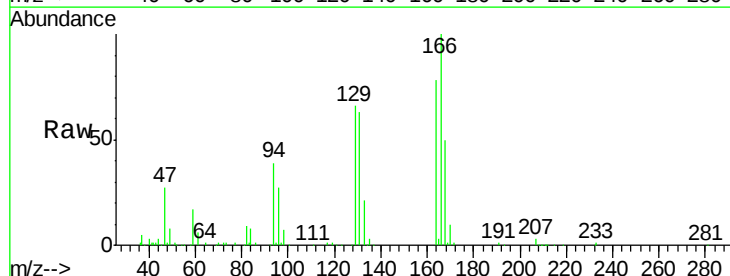
Ion Ratio Lower Upper

164 100

166 128.8 103.5 155.3

129 84.5 67.6 101.4

131 80.8 66.1 99.1

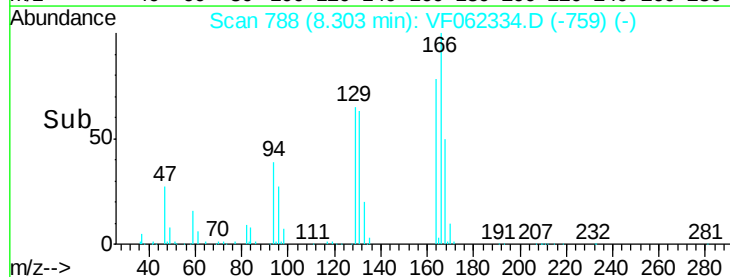
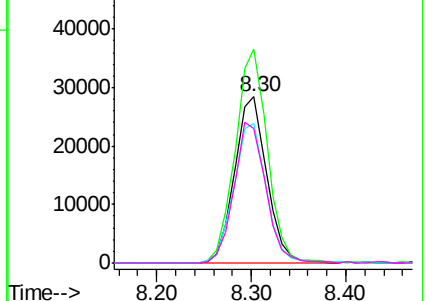


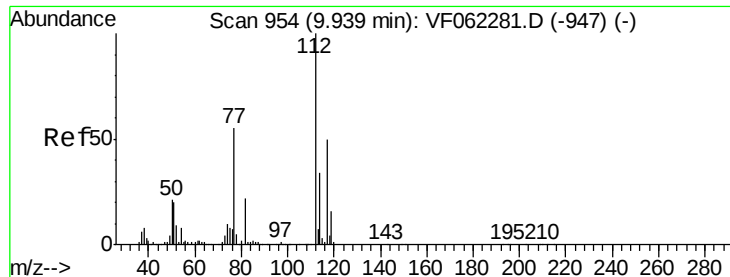
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V

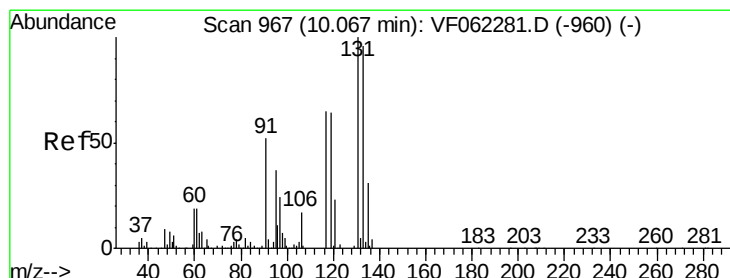
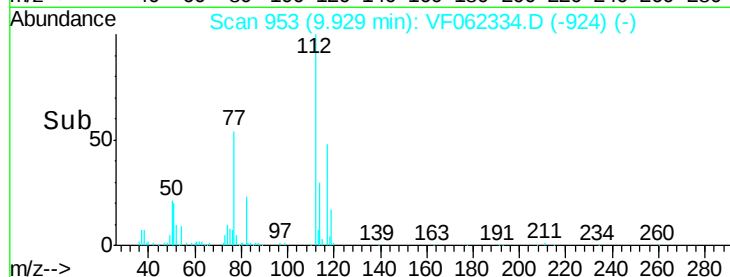
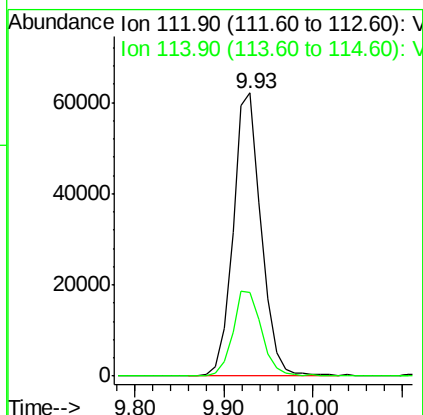
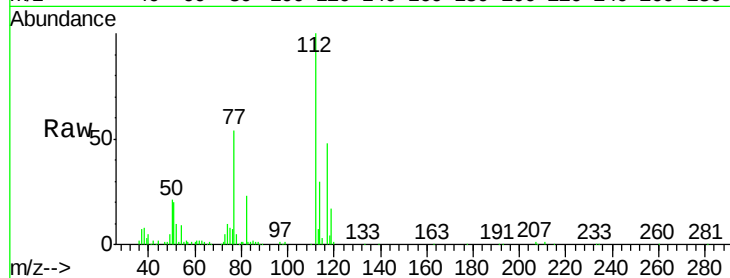




#65
Chlorobenzene
Concen: 21.973 ug/l
RT: 9.93 min Scan# 953
Delta R.T. -0.01 min
Lab File: VF062334.D
Acq: 30 Apr 2019 15:31

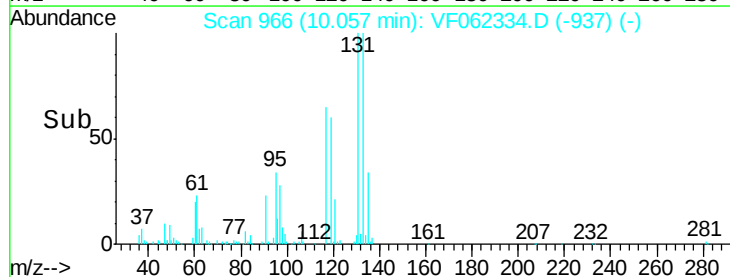
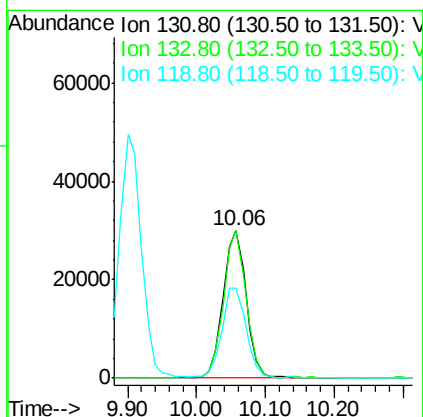
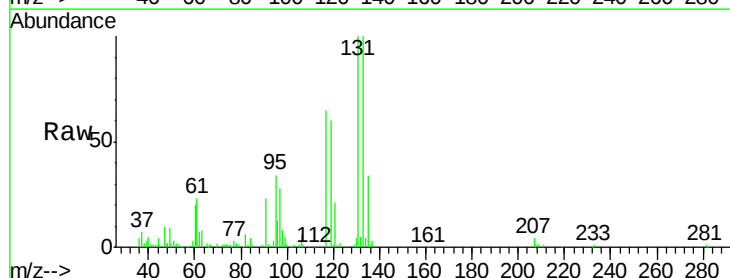
Instrument :
MSVOA_F
ClientSampleId :
VF0430SBS01

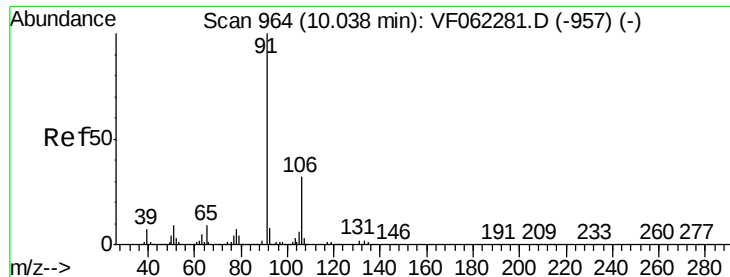
Tot Ion:112 Resp: 135891
Ion Ratio Lower Upper
112 100
114 29.8 27.0 40.6



#66
1,1,1,2-Tetrachloroethane
Concen: 23.915 ug/l
RT: 10.06 min Scan# 966
Delta R.T. -0.01 min
Lab File: VF062334.D
Acq: 30 Apr 2019 15:31

Tgt Ion:131 Resp: 69664
Ion Ratio Lower Upper
131 100
133 98.2 48.5 145.5
119 64.5 32.9 98.7





#67

Ethyl Benzene

Concen: 21.663 ug/l

RT: 10.03 min Scan# 963

Delta R.T. -0.01 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

Instrument :

MSVOA_F

ClientSampleId :

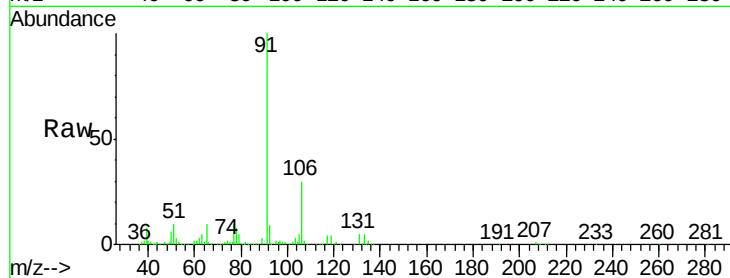
VF0430SBS01

Tot Ion: 91 Resp: 232914

Ion Ratio Lower Upper

91 100

106 30.4 25.6 38.4



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V

10.03

120000

100000

80000

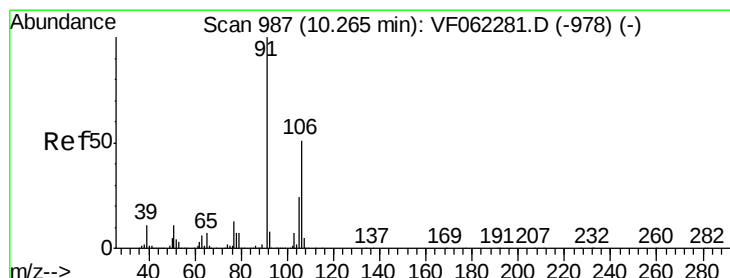
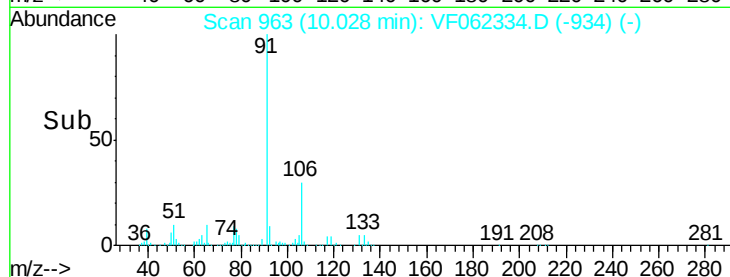
60000

40000

20000

0

Time--> 9.90 10.00 10.10



#68

m/p-Xylenes

Concen: 43.542 ug/l

RT: 10.25 min Scan# 986

Delta R.T. -0.01 min

Lab File: VF062334.D

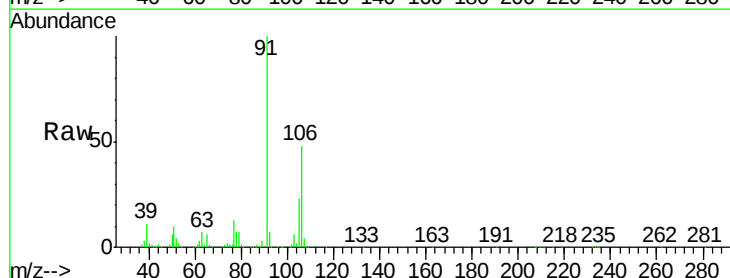
Acq: 30 Apr 2019 15:31

Tgt Ion: 106 Resp: 174292

Ion Ratio Lower Upper

106 100

91 210.2 158.3 237.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

200000

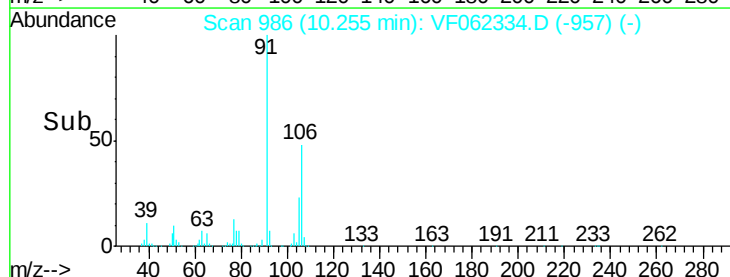
150000

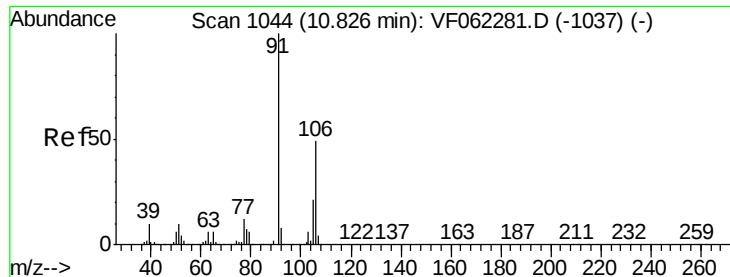
100000

50000

0

Time--> 10.10 10.20 10.30 10.40

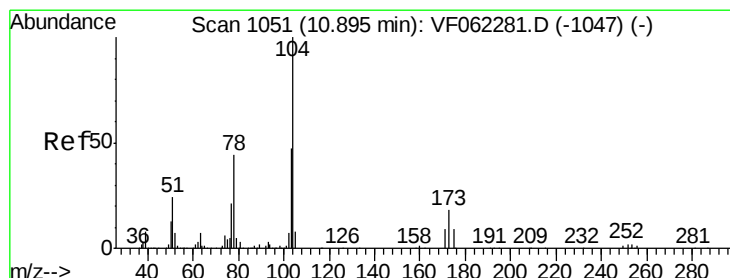
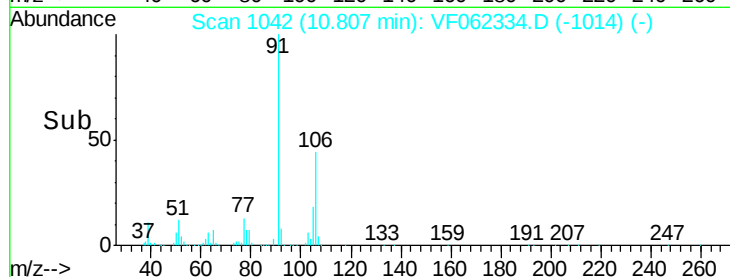
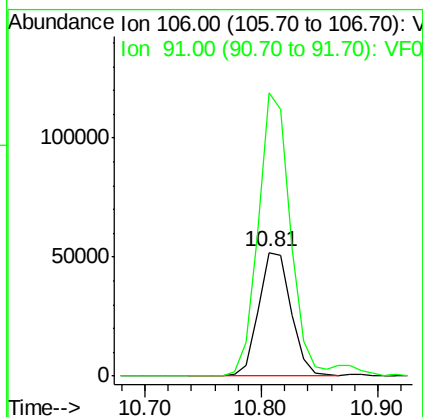
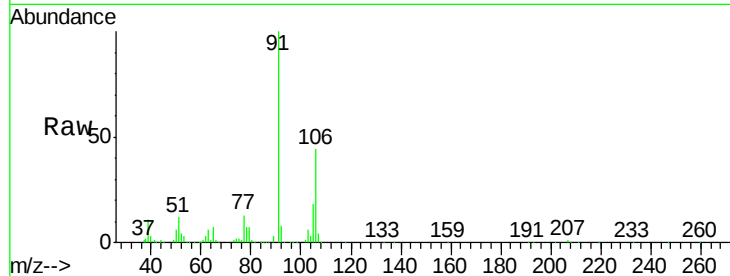




#69
o-Xylene
Concen: 22.466 ug/l
RT: 10.81 min Scan# 1042
Delta R.T. -0.02 min
Lab File: VF062334.D
Acq: 30 Apr 2019 15:31

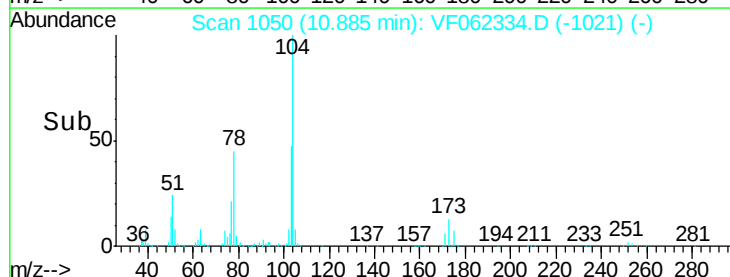
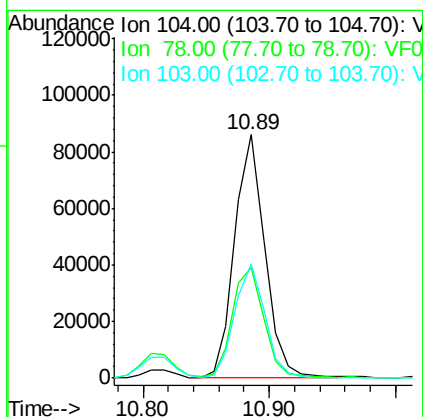
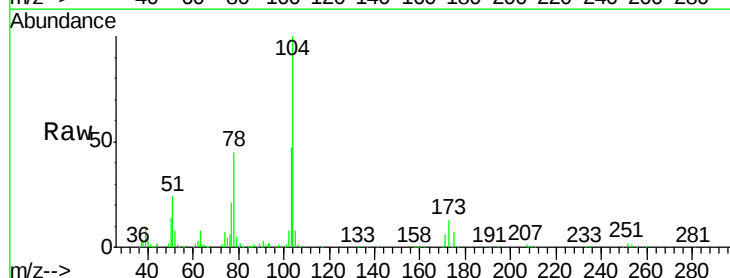
Instrument :
MSVOA_F
ClientSampleId :
VF0430SBS01

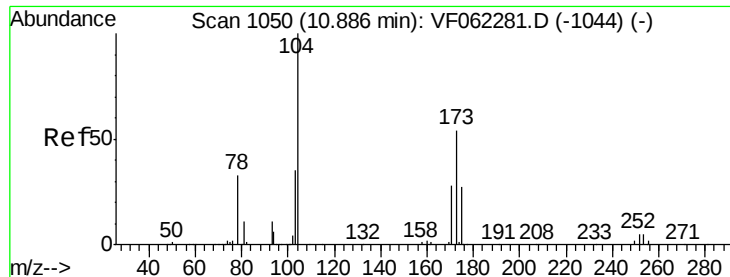
Tot Ion:106 Resp: 100470
Ion Ratio Lower Upper
106 100
91 223.5 110.0 330.0



#70
Styrene
Concen: 22.042 ug/l
RT: 10.89 min Scan# 1050
Delta R.T. -0.01 min
Lab File: VF062334.D
Acq: 30 Apr 2019 15:31

Tgt Ion:104 Resp: 142499
Ion Ratio Lower Upper
104 100
78 47.9 35.9 53.9
103 47.0 37.5 56.3





#71

Bromoform

Concen: 21.987 ug/l

RT: 10.88 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

Instrument :

MSVOA_F

ClientSampleId :

VF0430SBS01

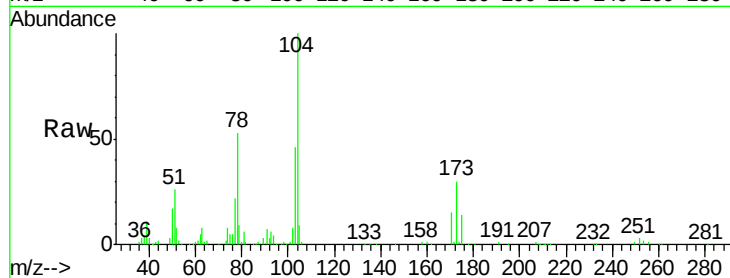
Tot Ion:173 Resp: 36052

Ion Ratio Lower Upper

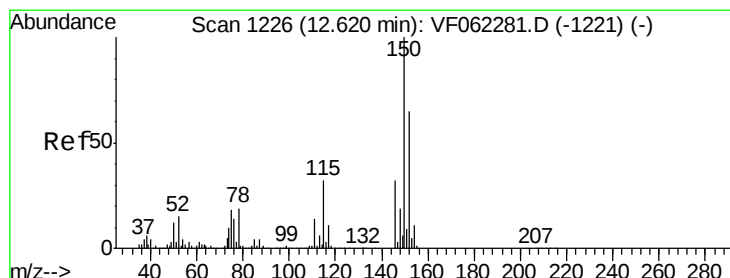
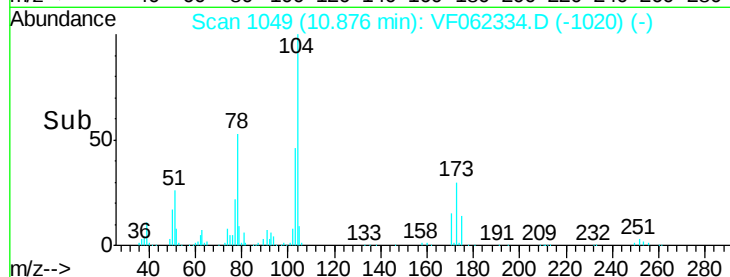
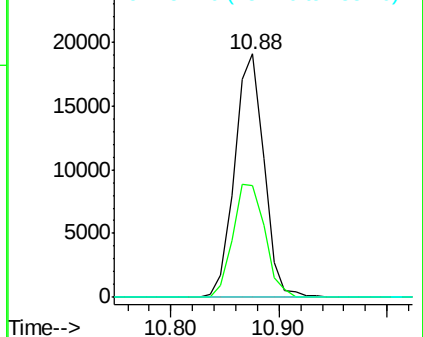
173 100

175 50.5 25.3 75.9

254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.61 min Scan# 1225

Delta R.T. -0.01 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

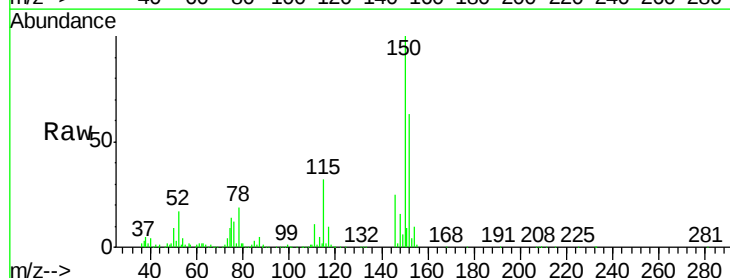
Tgt Ion:152 Resp: 209346

Ion Ratio Lower Upper

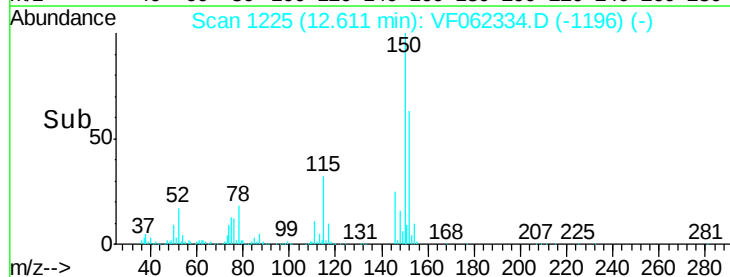
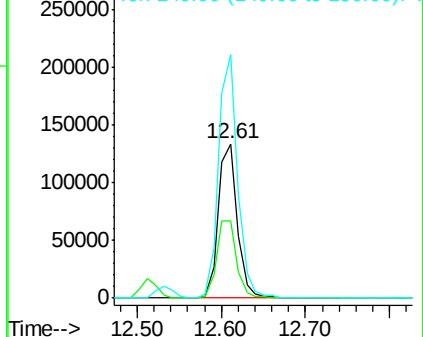
152 100

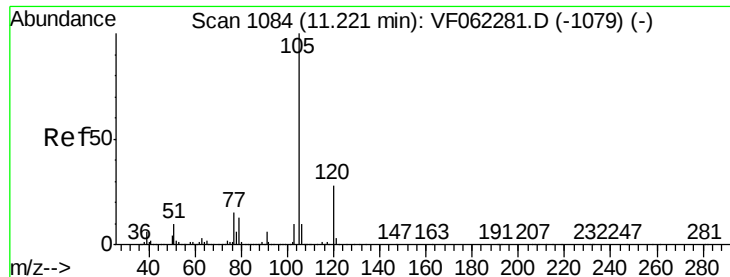
115 52.9 25.6 76.8

150 158.5 0.0 330.6



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.482 ug/l

RT: 11.21 min Scan# 1083

Delta R.T. -0.01 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

Instrument :

MSVOA_F

ClientSampleId :

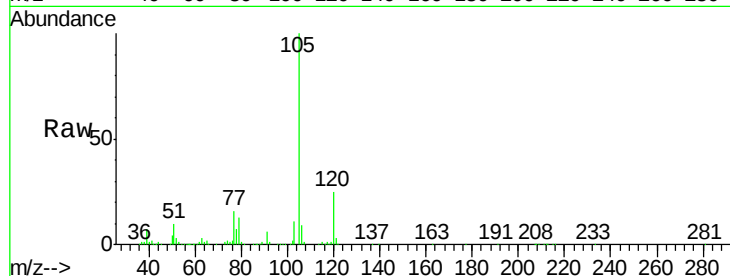
VF0430SBS01

Tot Ion:105 Resp: 308115

Ion Ratio Lower Upper

105 100

120 24.4 12.4 37.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.21

200000

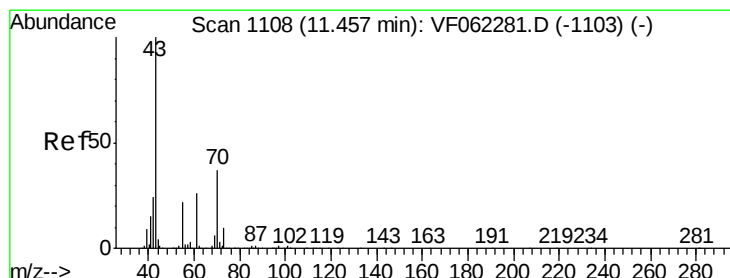
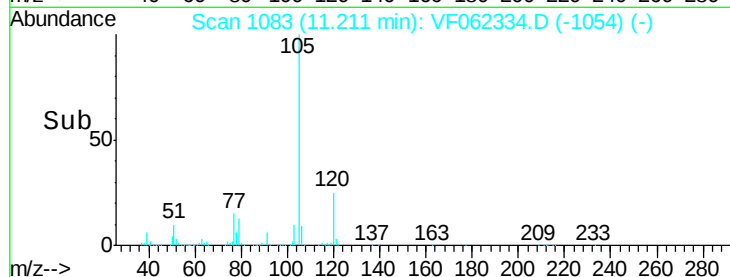
150000

100000

50000

0

Time--> 11.10 11.20 11.30



#74

N-ethyl acetate

Concen: 20.049 ug/l

RT: 11.44 min Scan# 1106

Delta R.T. -0.02 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

Tgt Ion: 43 Resp: 66259

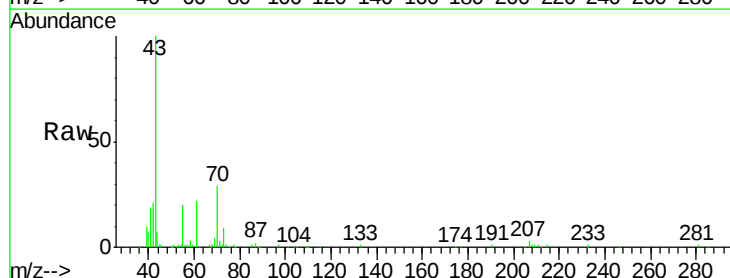
Ion Ratio Lower Upper

43 100

70 34.0 27.8 41.8

55 22.8 16.6 24.8

61 22.7 20.0 30.0



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

60000

50000

40000

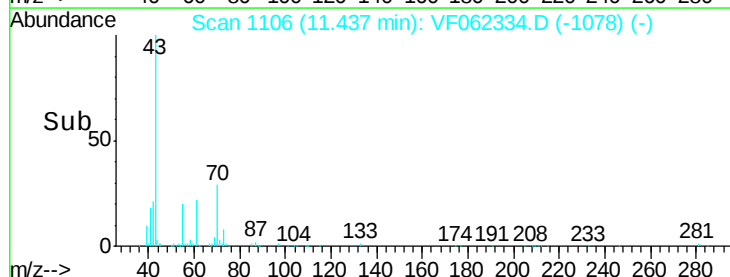
30000

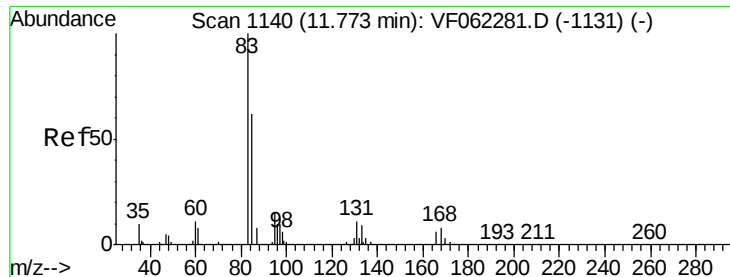
20000

10000

0

Time--> 11.40 11.50





#75

1,1,2,2-Tetrachloroethane

Concen: 19.937 ug/l

RT: 11.76 min Scan# 1139

Delta R.T. -0.01 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

Instrument :

MSVOA_F

ClientSampleId :

VF0430SBS01

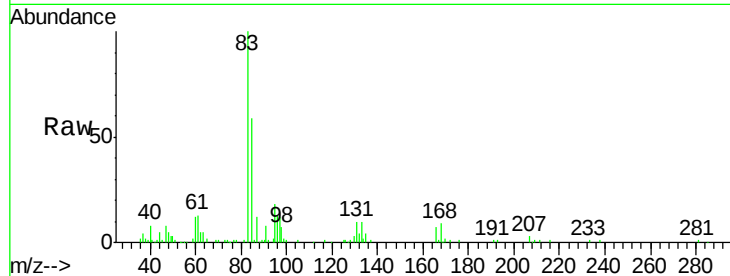
Tot Ion: 83 Resp: 45432

Ion Ratio Lower Upper

83 100

131 10.4 5.5 16.5

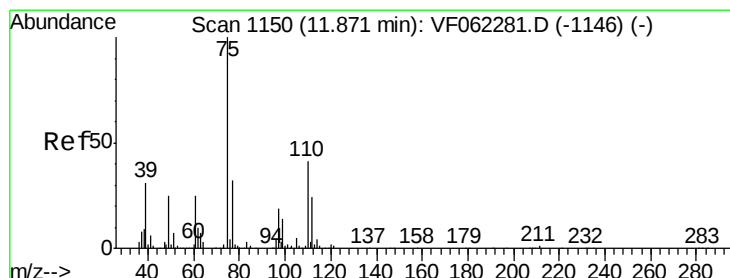
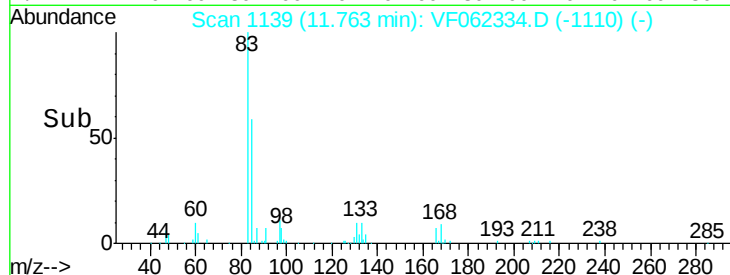
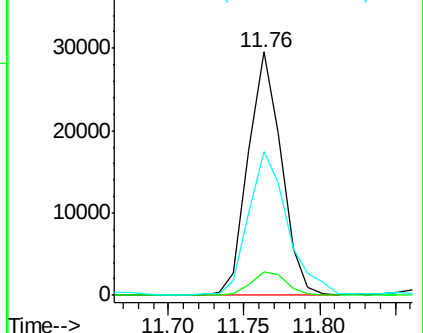
85 70.4 34.5 103.6



Abundance Ion 82.90 (82.60 to 83.60): VF0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VF0



#76

1,2,3-Trichloropropane

Concen: 21.676 ug/l

RT: 11.86 min Scan# 1149

Delta R.T. -0.01 min

Lab File: VF062334.D

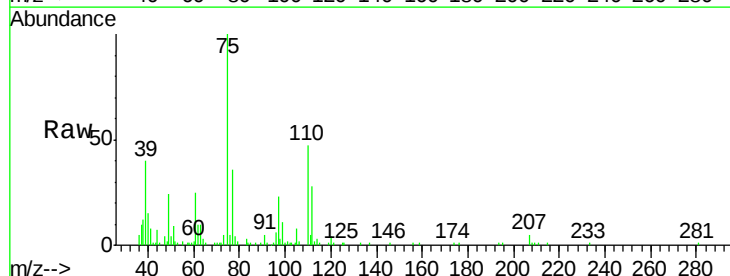
Acq: 30 Apr 2019 15:31

Tgt Ion: 75 Resp: 35045

Ion Ratio Lower Upper

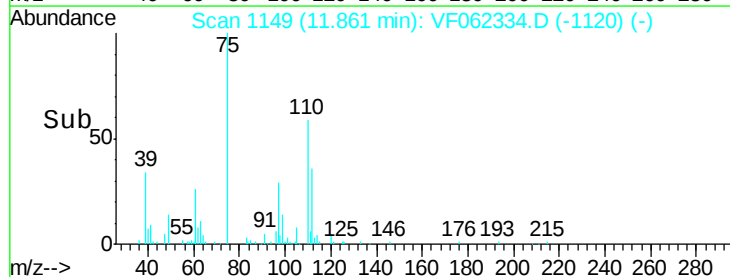
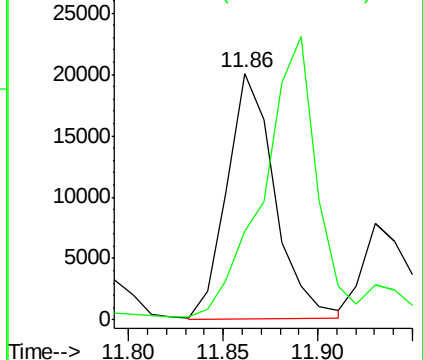
75 100

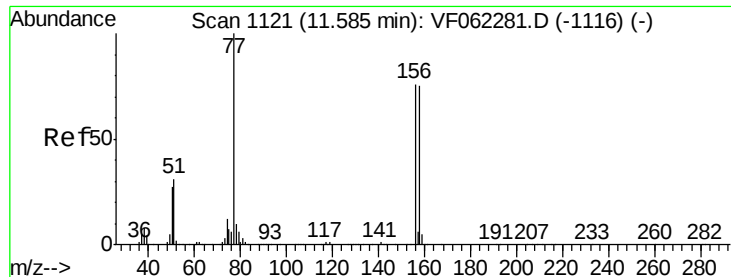
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 21.256 ug/l

RT: 11.58 min Scan# 1120

Delta R.T. -0.01 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

Instrument :

MSVOA_F

ClientSampleId :

VF0430SBS01

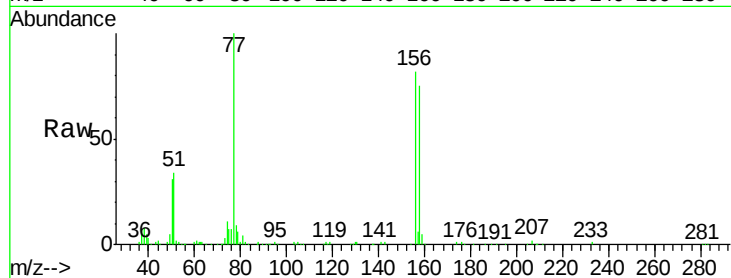
Tot Ion:156 Resp: 76219

Ion Ratio Lower Upper

156 100

77 134.5 67.3 201.9

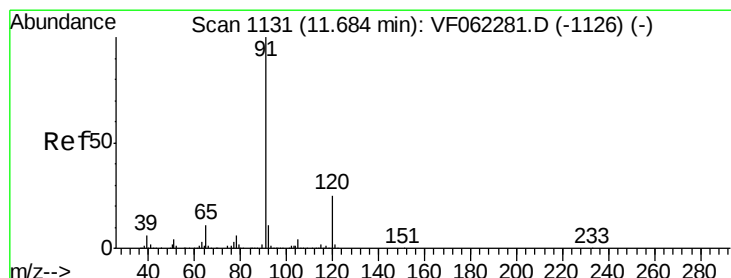
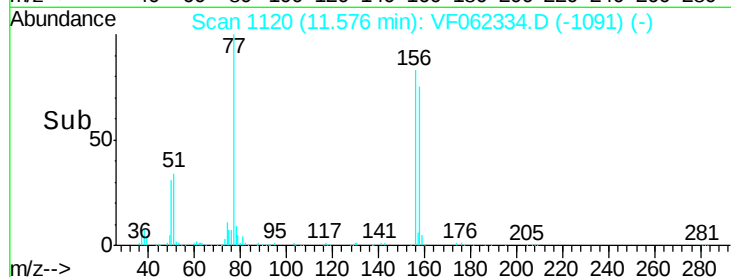
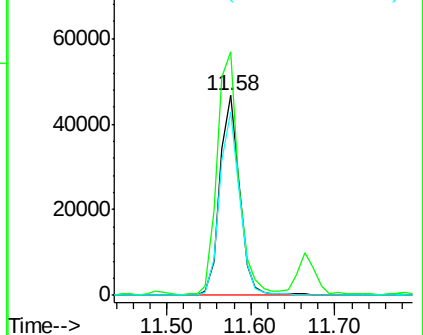
158 93.6 49.5 148.5



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 21.319 ug/l

RT: 11.66 min Scan# 1129

Delta R.T. -0.02 min

Lab File: VF062334.D

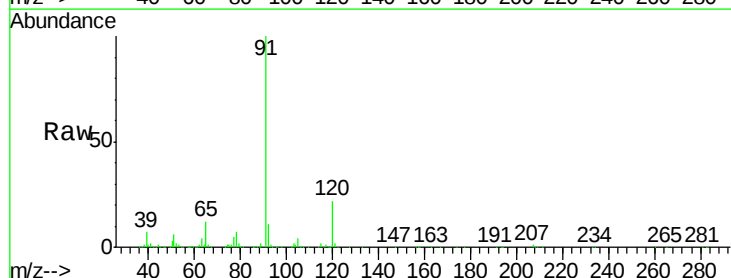
Acq: 30 Apr 2019 15:31

Tgt Ion: 91 Resp: 321759

Ion Ratio Lower Upper

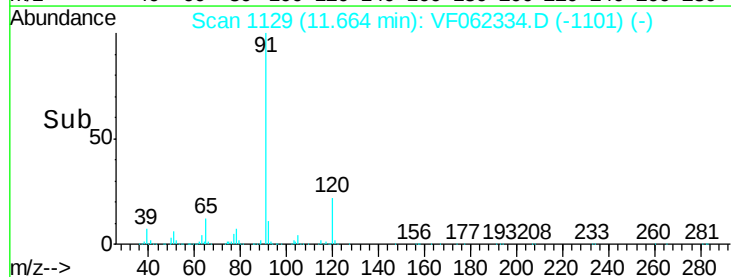
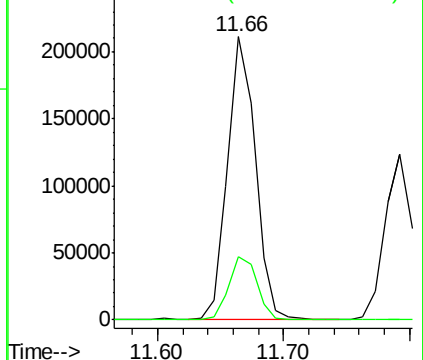
91 100

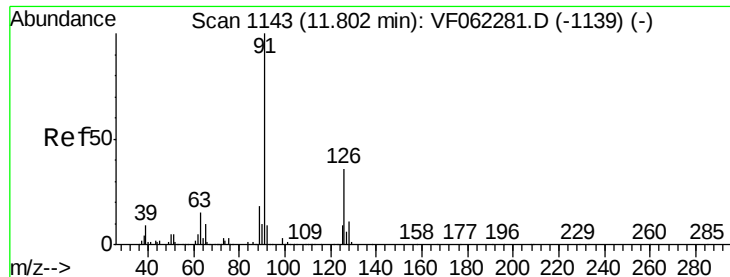
120 22.9 11.8 35.4



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 21.002 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. -0.01 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

Instrument :

MSVOA_F

ClientSampleId :

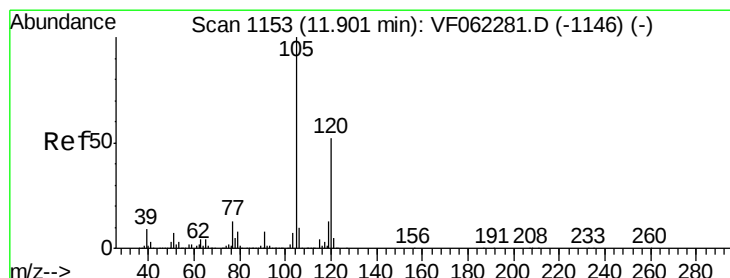
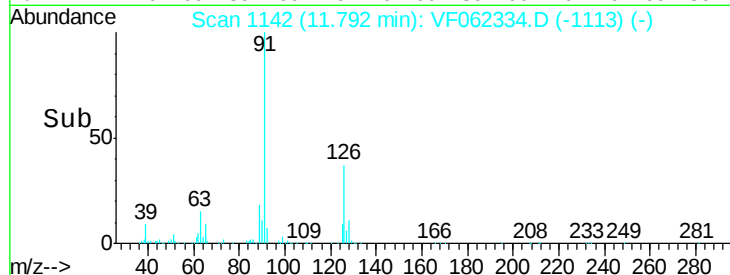
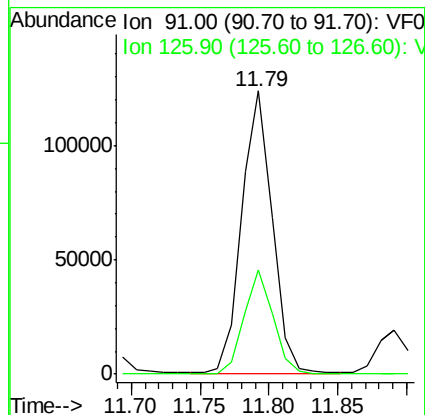
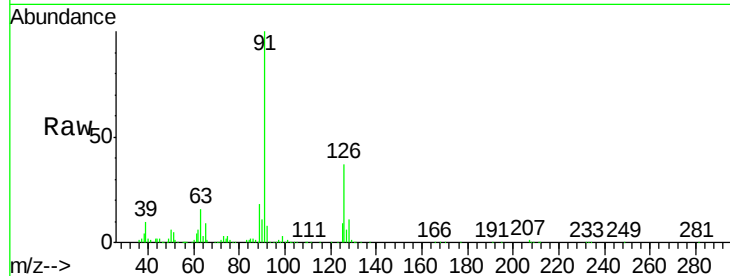
VF0430SBS01

Tot Ion: 91 Resp: 190922

Ion Ratio Lower Upper

91 100

126 35.5 17.9 53.8



#80

1,3,5-Trimethylbenzene

Concen: 22.532 ug/l

RT: 11.89 min Scan# 1152

Delta R.T. -0.01 min

Lab File: VF062334.D

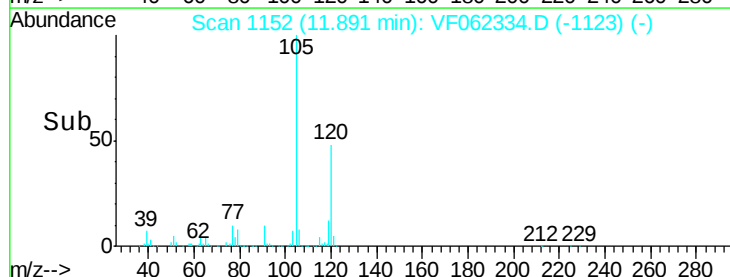
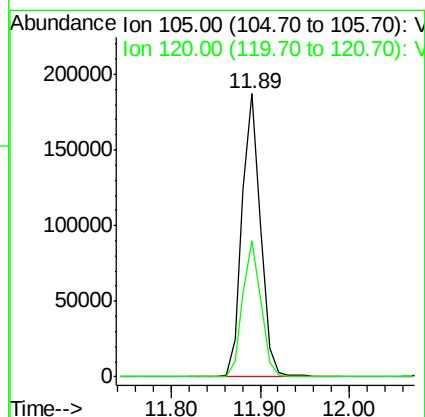
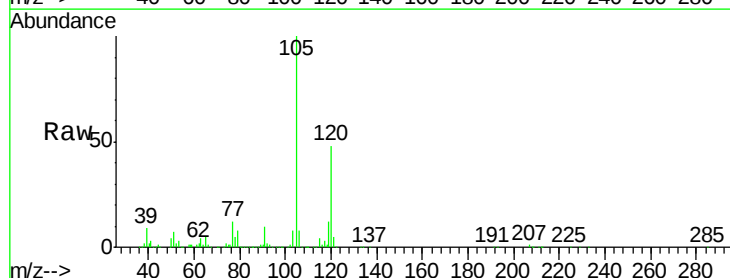
Acq: 30 Apr 2019 15:31

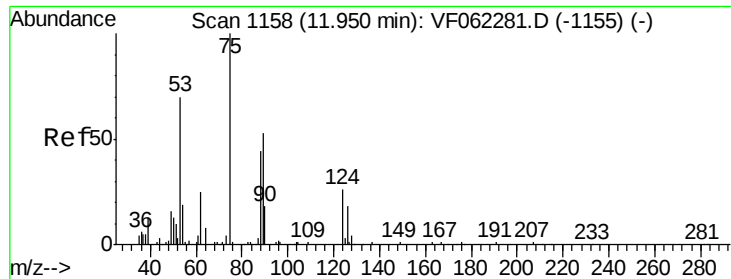
Tgt Ion:105 Resp: 272829

Ion Ratio Lower Upper

105 100

120 47.6 25.8 77.4

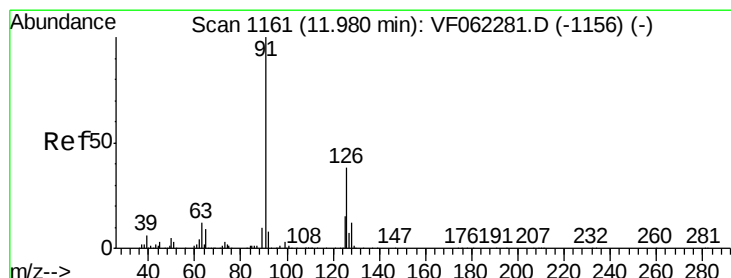
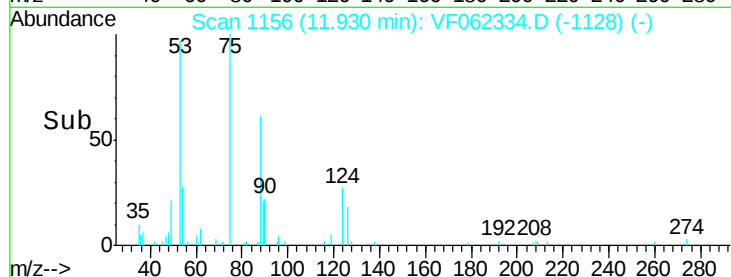
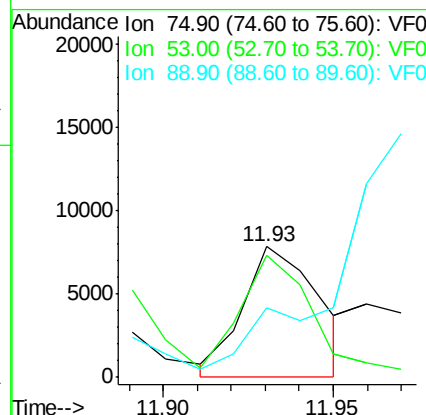
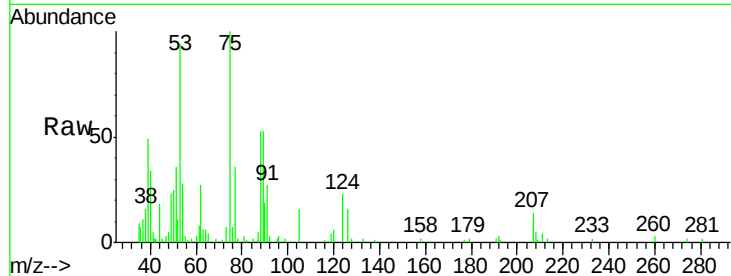




#81
trans-1,4-Dichloro-2-butene
Concen: 17.017 ug/l m
RT: 11.93 min Scan# 1156
Delta R.T. -0.02 min
Lab File: VF062334.D
Acq: 30 Apr 2019 15:31

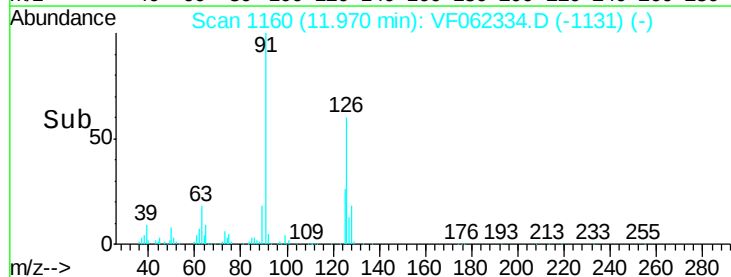
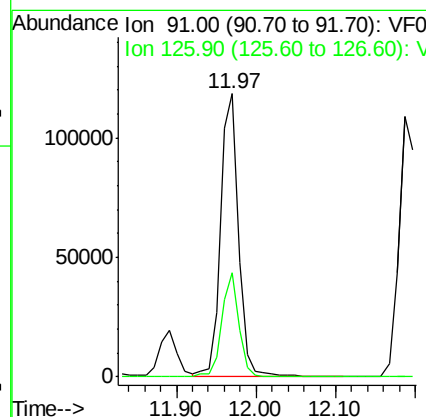
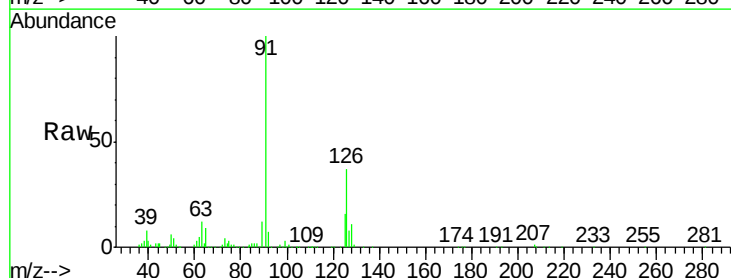
Instrument :
MSVOA_F
ClientSampleId :
VF0430SBS01

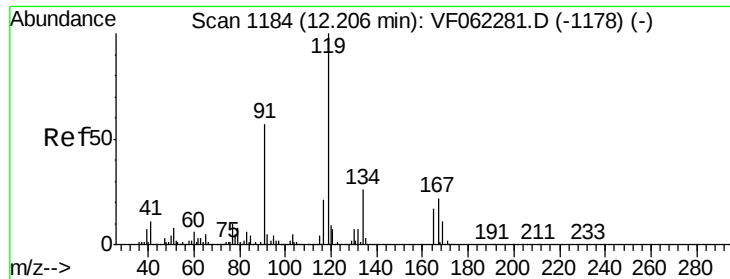
Tot Ion: 75 Resp: 12298
Ion Ratio Lower Upper
75 100
53 95.4 67.1 100.7
89 0.0 0.0 0.0



#82
4-Chlorotoluene
Concen: 20.815 ug/l
RT: 11.97 min Scan# 1160
Delta R.T. -0.01 min
Lab File: VF062334.D
Acq: 30 Apr 2019 15:31

Tgt Ion: 91 Resp: 187239
Ion Ratio Lower Upper
91 100
126 35.8 17.3 52.0





#83

tert-Butylbenzene

Concen: 23.225 ug/l

RT: 12.19 min Scan# 1182

Delta R.T. -0.02 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

Instrument :

MSVOA_F

ClientSampleId :

VF0430SBS01

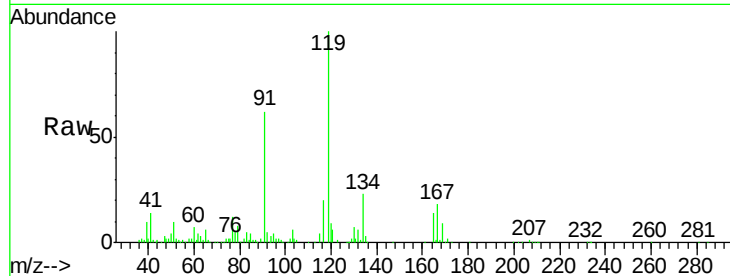
Tot Ion:119 Resp: 288609

Ion Ratio Lower Upper

119 100

91 59.4 29.4 88.2

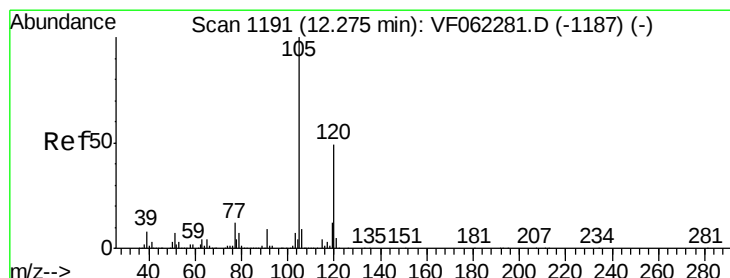
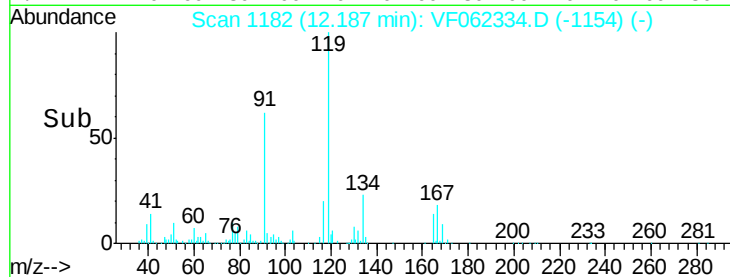
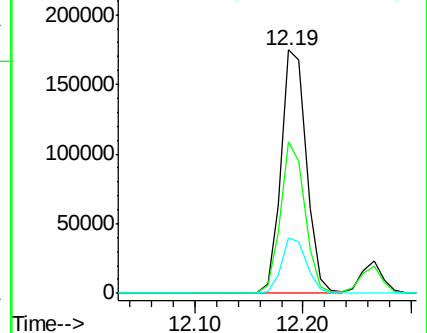
134 22.8 11.9 35.7



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 21.948 ug/l

RT: 12.27 min Scan# 1190

Delta R.T. -0.01 min

Lab File: VF062334.D

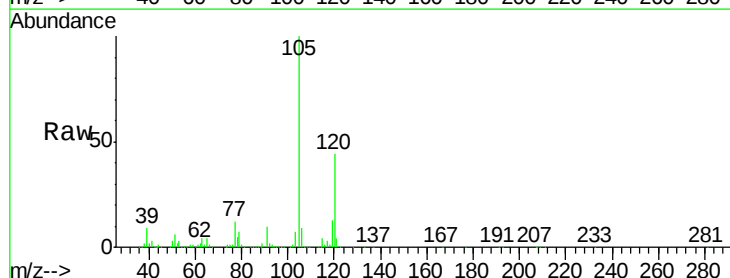
Acq: 30 Apr 2019 15:31

Tgt Ion:105 Resp: 257392

Ion Ratio Lower Upper

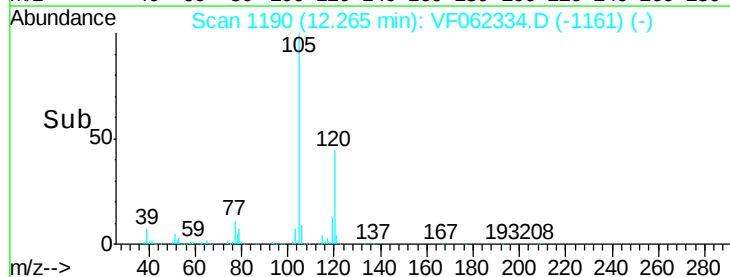
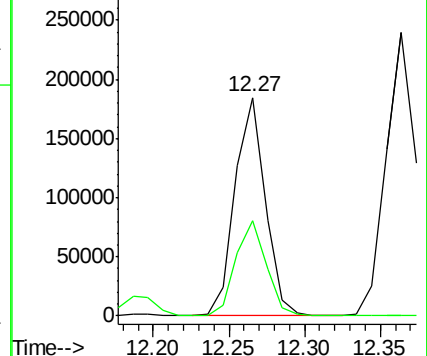
105 100

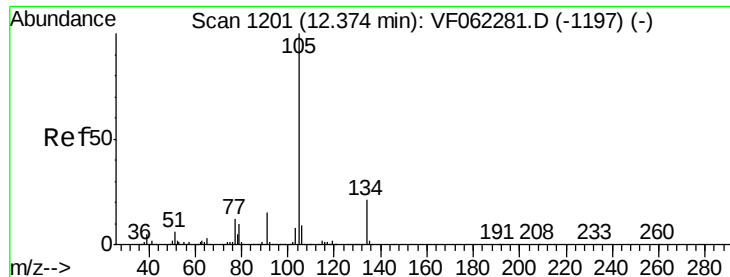
120 44.0 24.1 72.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 21.684 ug/l

RT: 12.36 min Scan# 1200

Delta R.T. -0.01 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

Instrument :

MSVOA_F

ClientSampleId :

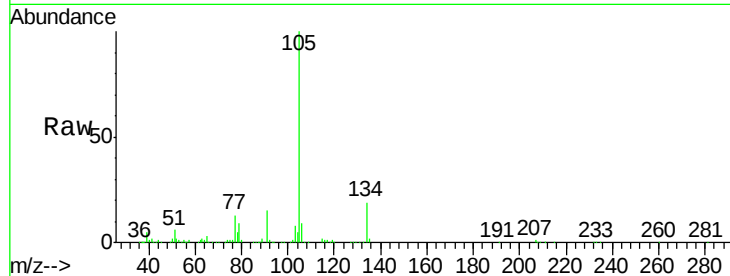
VF0430SBS01

Tot Ion:105 Resp: 335620

Ion Ratio Lower Upper

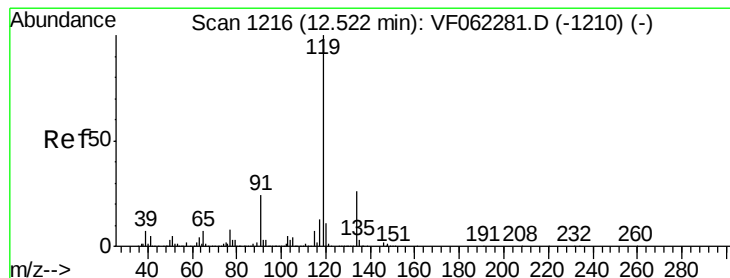
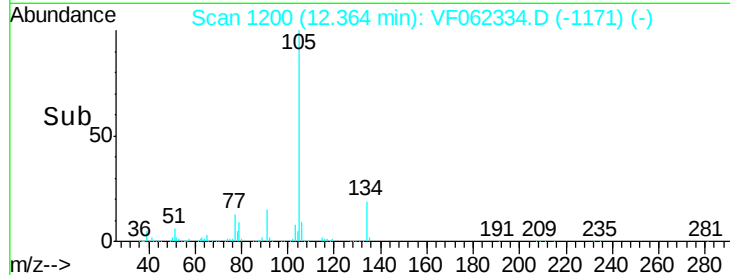
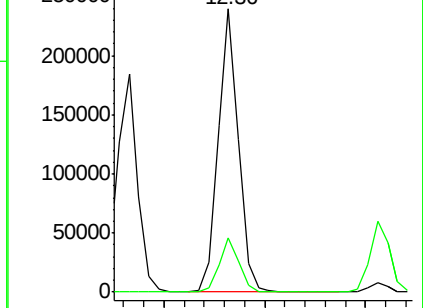
105 100

134 18.9 10.2 30.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 23.231 ug/l

RT: 12.51 min Scan# 1215

Delta R.T. -0.01 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

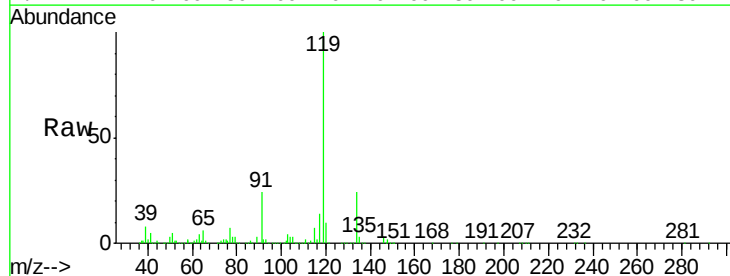
Tgt Ion:119 Resp: 322359

Ion Ratio Lower Upper

119 100

134 25.5 13.2 39.5

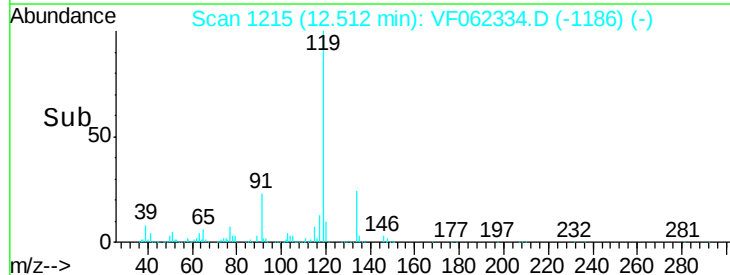
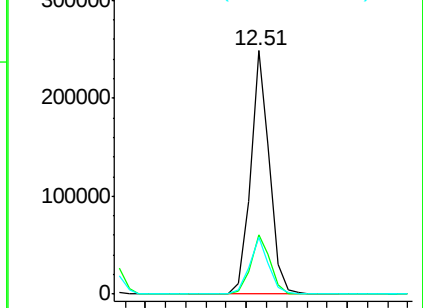
91 23.6 11.6 34.7

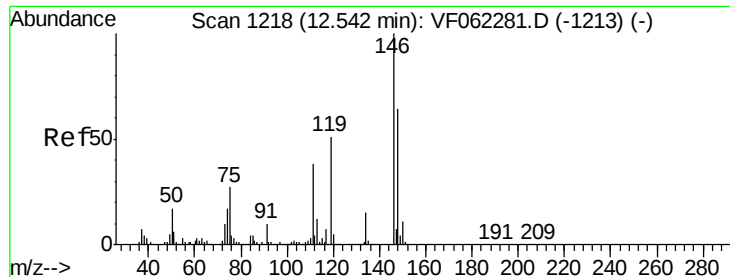


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0

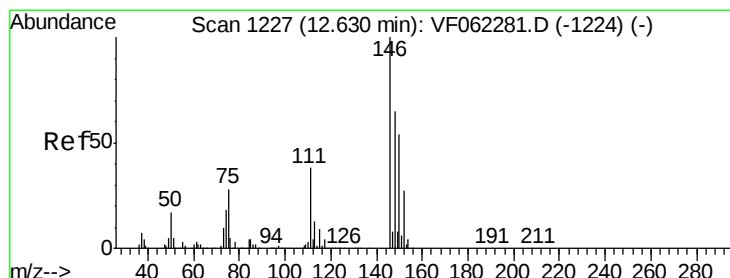
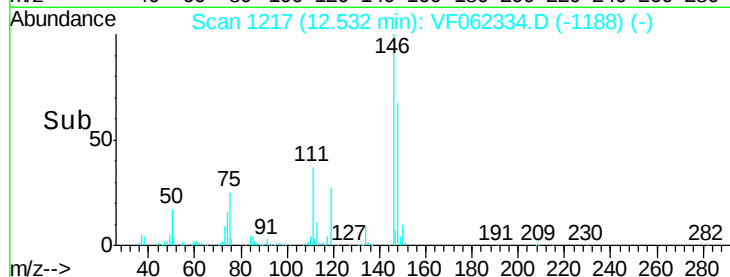
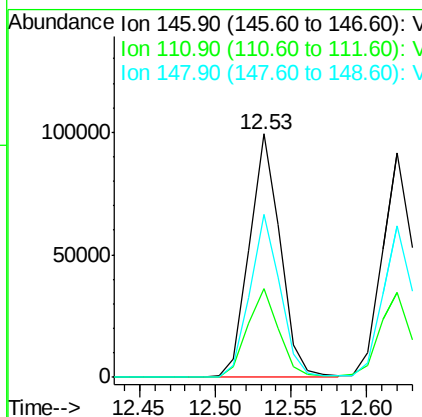
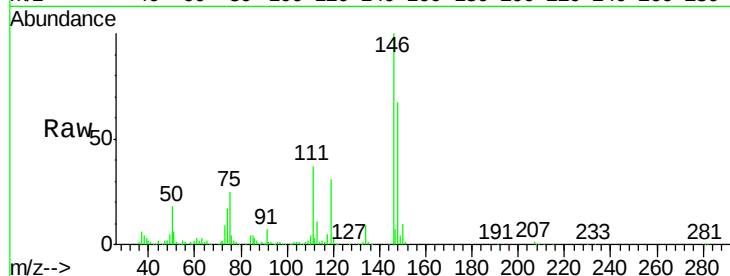




#87
 1,3-Dichlorobenzene
 Concen: 22.385 ug/l
 RT: 12.53 min Scan# 1217
 Delta R.T. -0.01 min
 Lab File: VF062334.D
 Acq: 30 Apr 2019 15:31

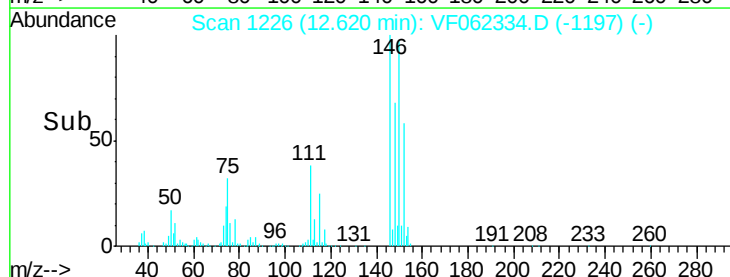
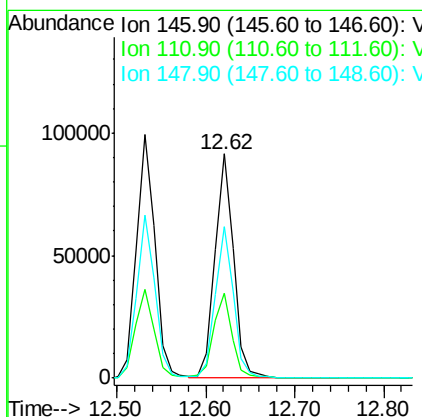
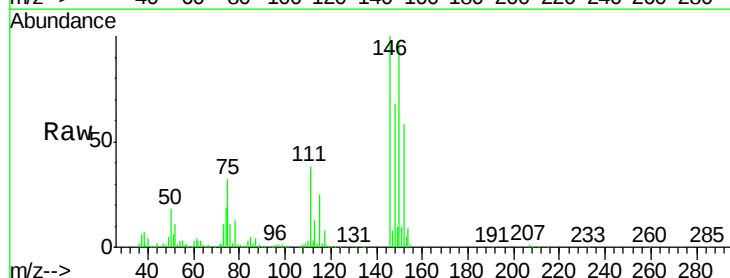
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0430SBS01

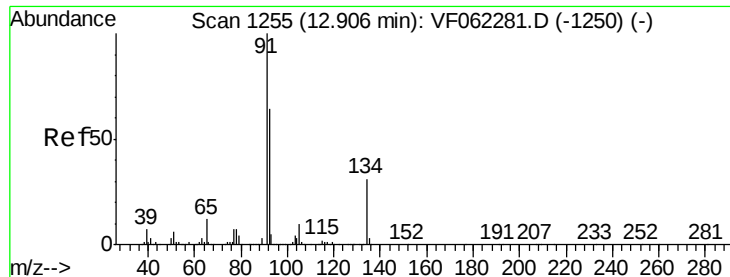
Tot Ion	Ratio	Lower	Upper
146	100		
111	37.0	18.6	55.8
148	65.6	32.8	98.4



#88
 1,4-Dichlorobenzene
 Concen: 22.389 ug/l
 RT: 12.62 min Scan# 1226
 Delta R.T. -0.01 min
 Lab File: VF062334.D
 Acq: 30 Apr 2019 15:31

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.8	18.6	56.0
148	65.2	32.5	97.5





#89

n-Butylbenzene

Concen: 22.367 ug/l

RT: 12.90 min Scan# 1254

Delta R.T. -0.01 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

Instrument :

MSVOA_F

ClientSampleId :

VF0430SBS01

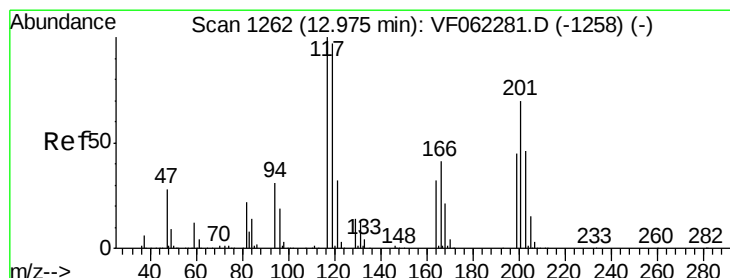
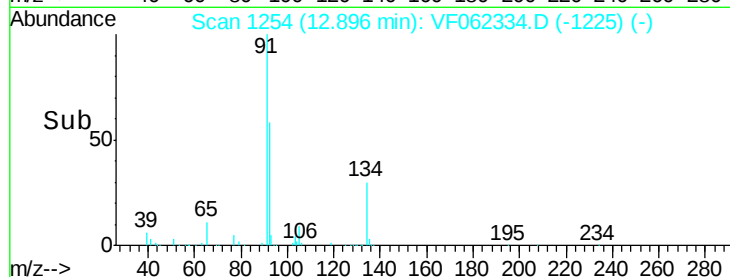
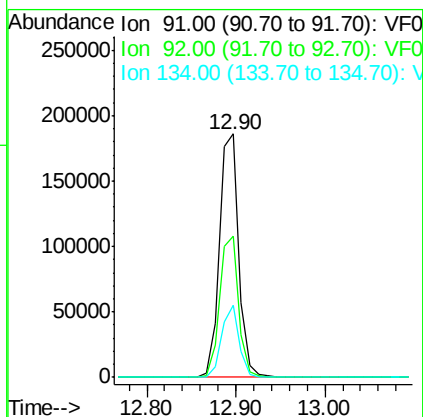
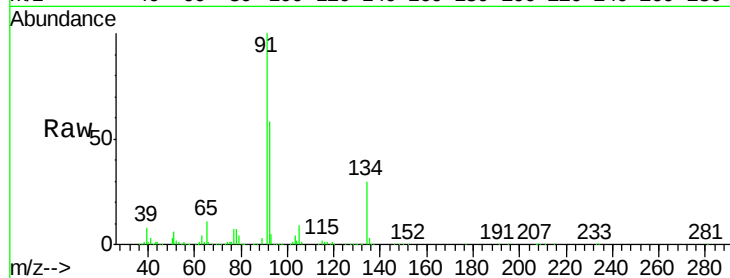
Tot Ion: 91 Resp: 282018

Ion Ratio Lower Upper

91 100

92 57.7 31.1 93.3

134 27.2 14.4 43.4



#90

Hexachloroethane

Concen: 22.181 ug/l

RT: 12.97 min Scan# 1261

Delta R.T. -0.01 min

Lab File: VF062334.D

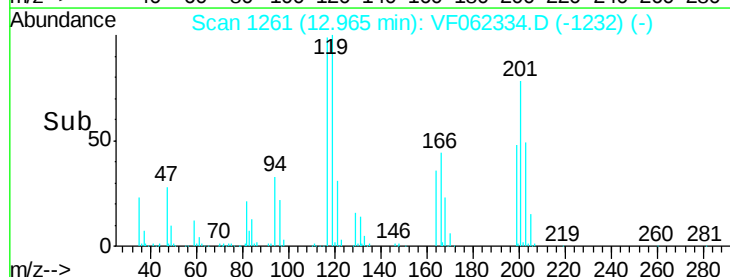
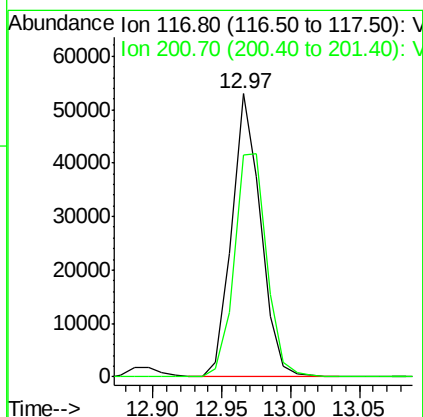
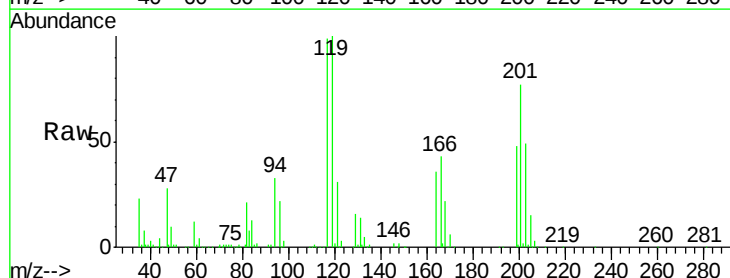
Acq: 30 Apr 2019 15:31

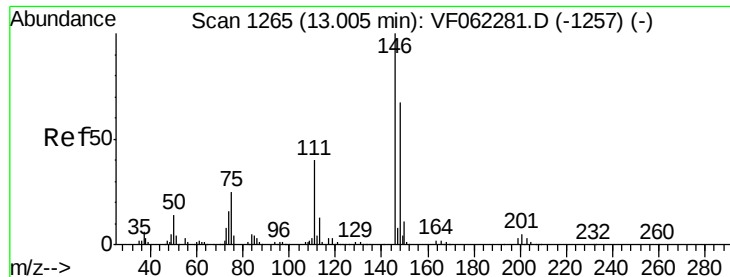
Tgt Ion: 117 Resp: 77154

Ion Ratio Lower Upper

117 100

201 89.0 42.9 128.5





#91

1,2-Dichlorobenzene

Concen: 22.261 ug/l

RT: 12.99 min Scan# 1264

Delta R.T. -0.01 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

Instrument :

MSVOA_F

ClientSampleId :

VF0430SBS01

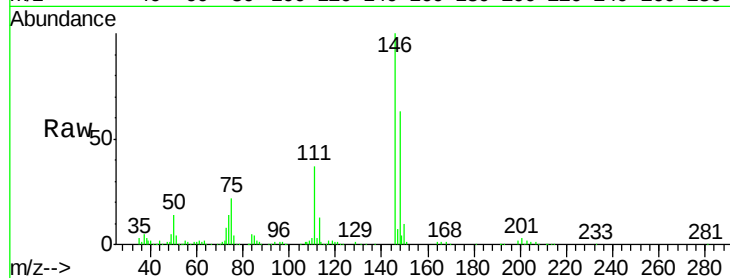
Tot Ion:146 Resp: 135555

Ion Ratio Lower Upper

146 100

111 39.0 20.0 59.9

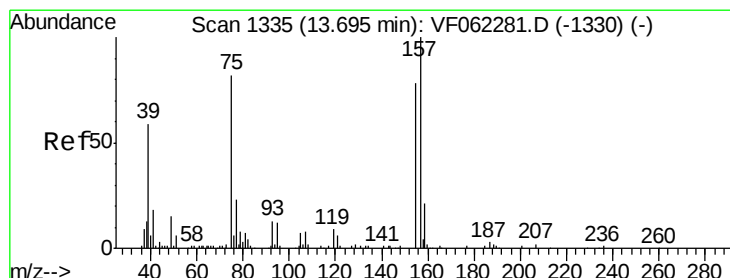
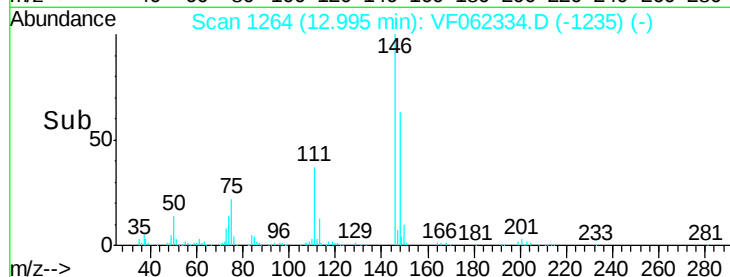
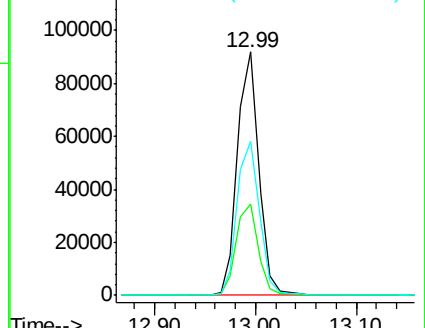
148 66.4 33.1 99.5



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 20.987 ug/l

RT: 13.68 min Scan# 1334

Delta R.T. -0.01 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

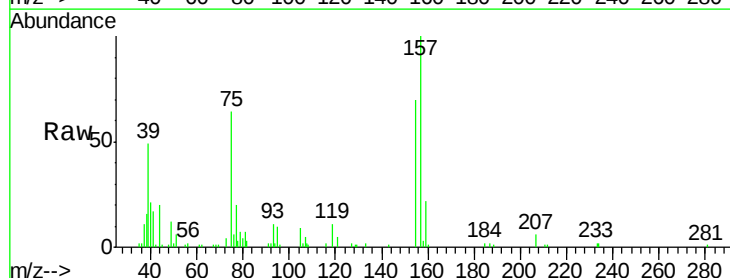
Tgt Ion: 75 Resp: 9648

Ion Ratio Lower Upper

75 100

155 96.5 51.7 155.2

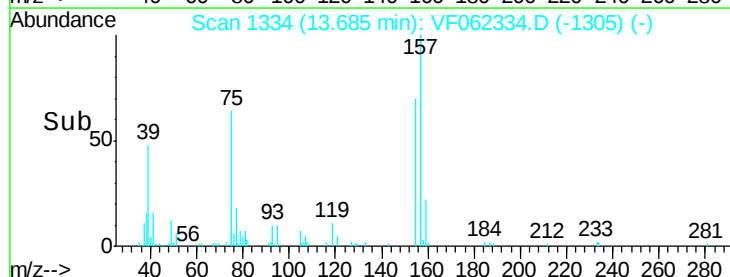
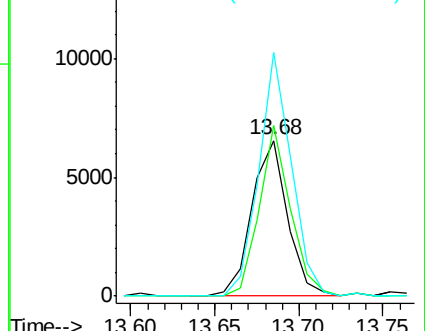
157 142.7 64.5 193.5

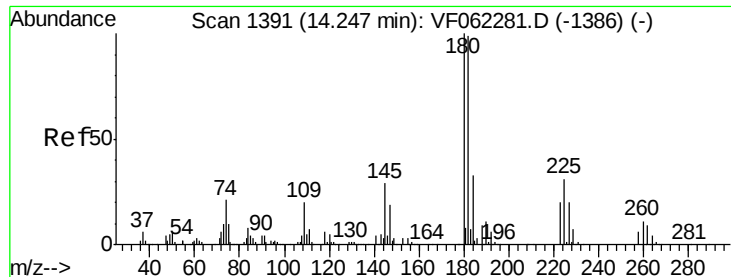


Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

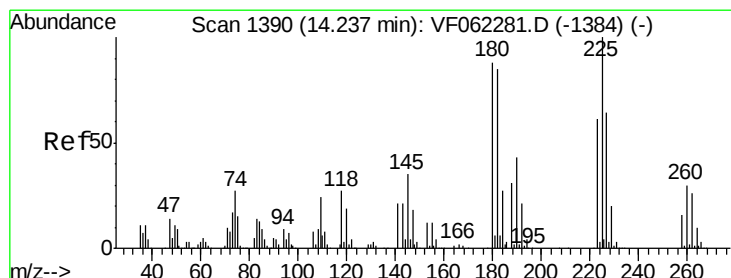
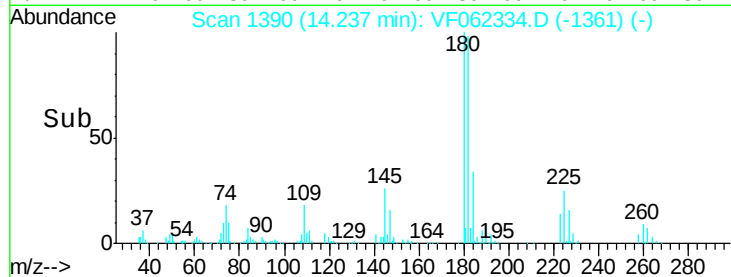
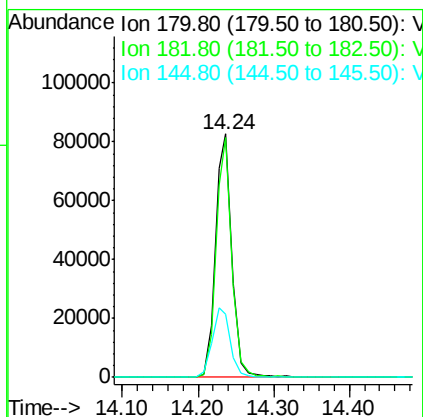
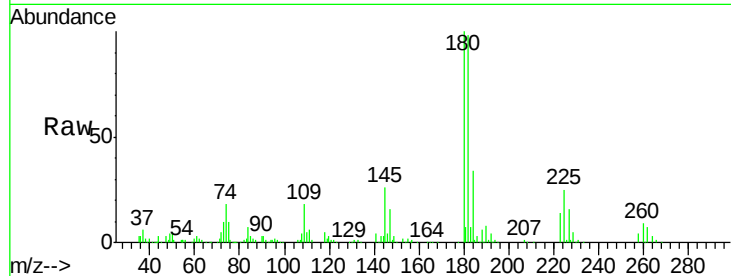




#93
 1,2,4-Trichlorobenzene
 Concen: 23.720 ug/l
 RT: 14.24 min Scan# 1390
 Delta R.T. -0.01 min
 Lab File: VF062334.D
 Acq: 30 Apr 2019 15:31

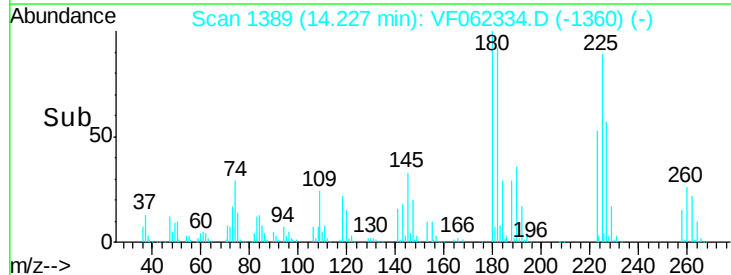
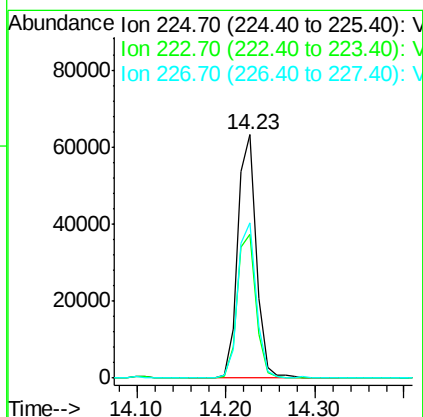
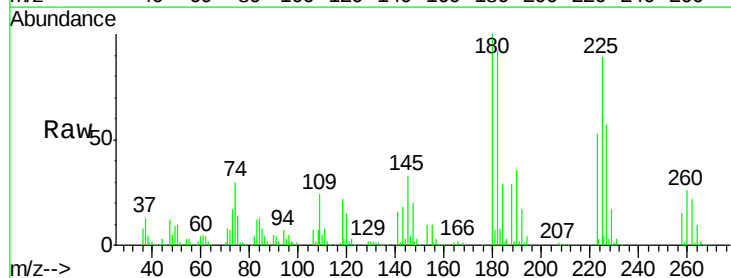
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0430SBS01

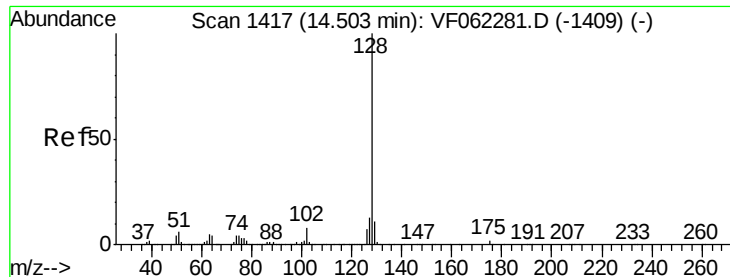
Tot Ion:180 Resp: 126894
 Ion Ratio Lower Upper
 180 100
 182 94.3 48.5 145.6
 145 31.8 16.7 50.1



#94
 Hexachlorobutadiene
 Concen: 23.958 ug/l
 RT: 14.23 min Scan# 1389
 Delta R.T. -0.01 min
 Lab File: VF062334.D
 Acq: 30 Apr 2019 15:31

Tgt Ion:225 Resp: 92172
 Ion Ratio Lower Upper
 225 100
 223 60.5 30.8 92.3
 227 63.7 31.9 95.5





#95

Naphthalene

Concen: 22.638 ug/l

RT: 14.48 min Scan# 1415

Delta R.T. -0.02 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

Instrument :

MSVOA_F

ClientSampleId :

VF0430SBS01

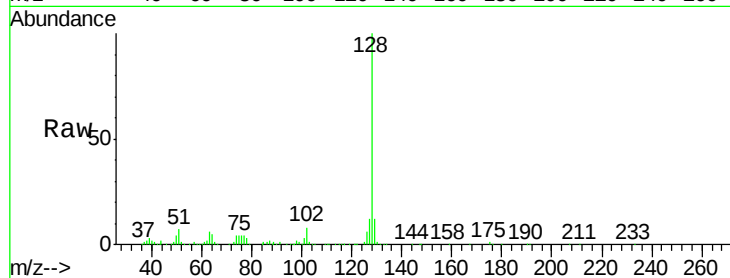
Tot Ion:128 Resp: 187619

Ion Ratio Lower Upper

128 100

127 12.1 10.2 15.4

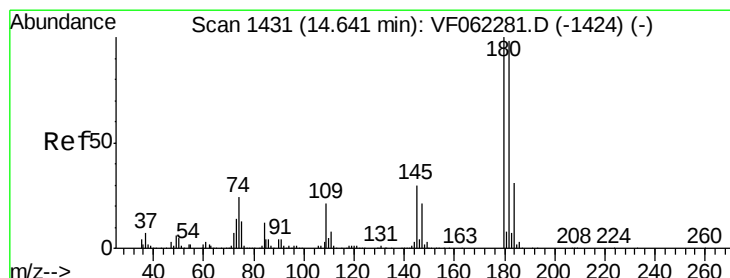
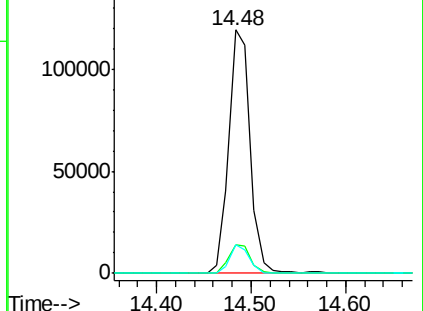
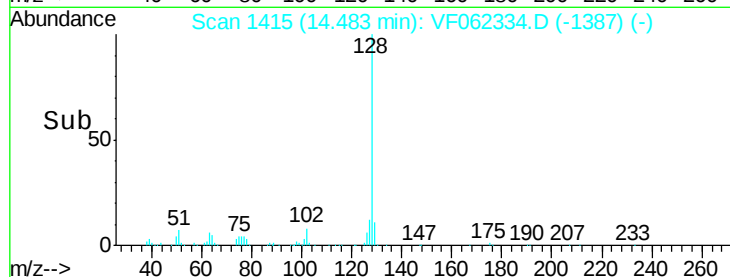
129 11.0 8.9 13.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 24.118 ug/l

RT: 14.63 min Scan# 1430

Delta R.T. -0.01 min

Lab File: VF062334.D

Acq: 30 Apr 2019 15:31

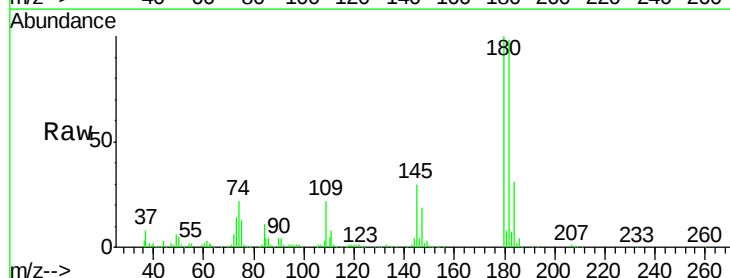
Tgt Ion:180 Resp: 122022

Ion Ratio Lower Upper

180 100

182 96.9 49.0 147.2

145 29.3 14.5 43.5



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

