

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF051719\
 Data File : VF062638.D
 Acq On : 17 May 2019 15:06
 Operator : FY/SY
 Sample : K2822-04
 Misc : 5.01g/5mL/MSVOA_F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 S-4RE

Quant Time: May 17 16:00:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F051619S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 05:49:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.06	168	733073	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.78	114	1232882	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	681028	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	182788	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.04	65	182165	35.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	70.34%	
35) Dibromofluoromethane	4.31	113	325603	34.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	69.02%	
50) Toluene-d8	7.72	98	628293	27.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	55.78%	
62) 4-Bromofluorobenzene	11.50	95	148689	17.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	34.80%	

Target Compounds

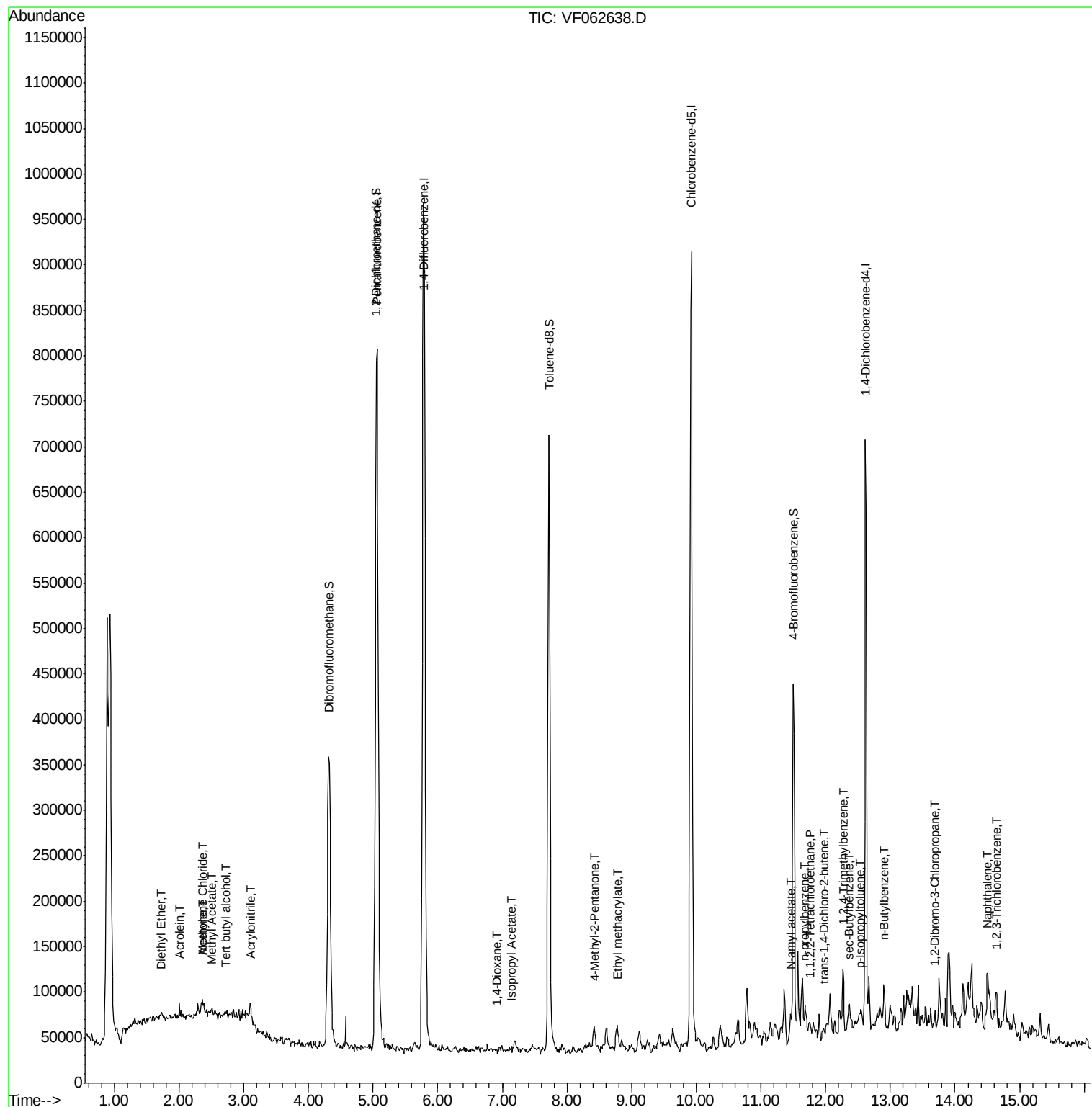
						Qvalue
8) Diethyl Ether	1.71	74	2250	1.000	ug/l	86
11) Tert butyl alcohol	2.71	59	3161	9.243	ug/l #	1
13) Acrolein	2.01	56	1625	4.552	ug/l	99
15) Acrylonitrile	3.10	53	2006	2.079	ug/l #	72
16) Acetone	2.36	43	9720	7.233	ug/l #	76
18) Methyl Acetate	2.50	43	6423	3.041	ug/l #	61
20) Methylene Chloride	2.36	84	12760	1.894	ug/l #	87
43) Isopropyl Acetate	7.13	43	6783	1.015	ug/l #	99
49) 1,4-Dioxane	6.91	88	793	17.726	ug/l #	20
51) 4-Methyl-2-Pentanone	8.42	43	31609	6.920	ug/l #	77
56) Ethyl methacrylate	8.77	69	18552	2.914	ug/l	97
59) 2-Hexanone	9.64	43	22694	Below Cal		81
74) N-amyl acetate	11.45	43	22125	1.391	ug/l #	89
75) 1,1,2,2-Tetrachloroethane	11.76	83	4276	1.597	ug/l #	47
78) n-propylbenzene	11.68	91	17683	1.141	ug/l	76
81) trans-1,4-Dichloro-2-buten	11.96	75	1055	1.349	ug/l #	51
84) 1,2,4-Trimethylbenzene	12.27	105	11366	1.118	ug/l	92
85) sec-Butylbenzene	12.38	105	15122	1.057	ug/l	97
86) p-Isopropyltoluene	12.53	119	12134	1.007	ug/l	81
89) n-Butylbenzene	12.90	91	12123	1.020	ug/l	85
92) 1,2-Dibromo-3-Chloropropan	13.70	75	745	2.333	ug/l #	42
95) Naphthalene	14.50	128	30507	4.467	ug/l #	89
96) 1,2,3-Trichlorobenzene	14.65	180	3900	1.095	ug/l	68

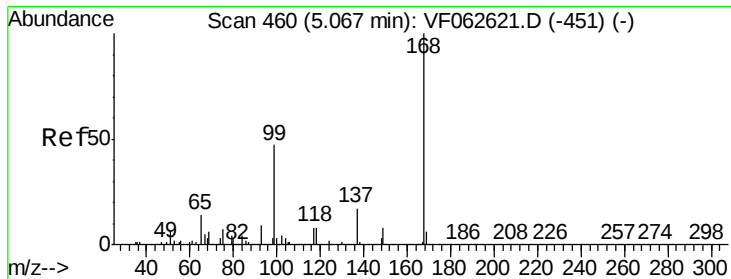
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_F\DATA\VF051719\
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Quant Title : SW846 8260
QLast Update : Fri May 17 05:49:09 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 459

Delta R.T. -0.00 min

Lab File: VF062638.D

Acq: 17 May 2019 15:06

Instrument :

MSVOA_F

ClientSampleId :

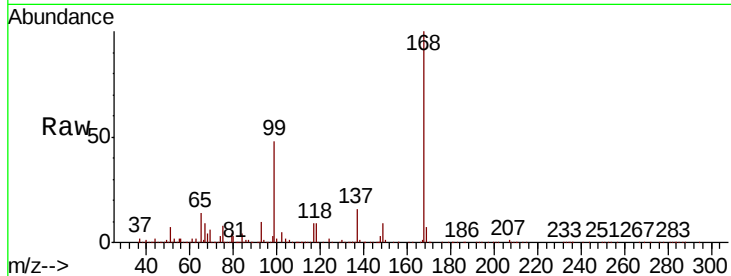
S-4RE

Tgt Ion:168 Resp: 733073

Ion Ratio Lower Upper

168 100

99 47.9 37.8 56.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.06

250000

200000

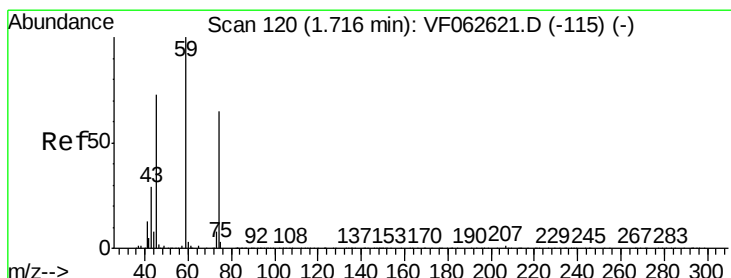
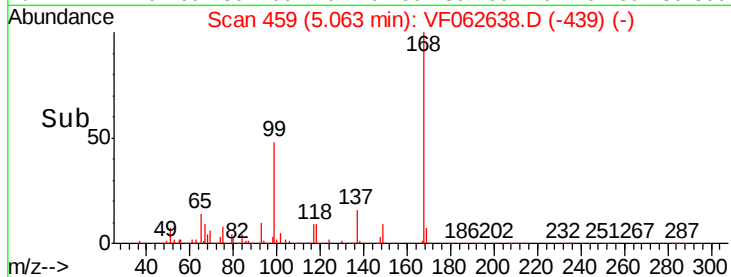
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 1.000 ug/l

RT: 1.71 min Scan# 119

Delta R.T. -0.00 min

Lab File: VF062638.D

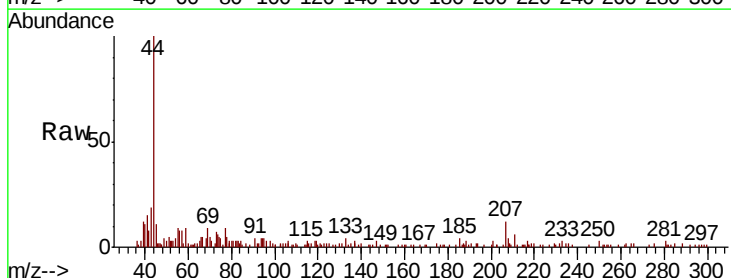
Acq: 17 May 2019 15:06

Tgt Ion: 74 Resp: 2250

Ion Ratio Lower Upper

74 100

45 98.5 57.0 170.8



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

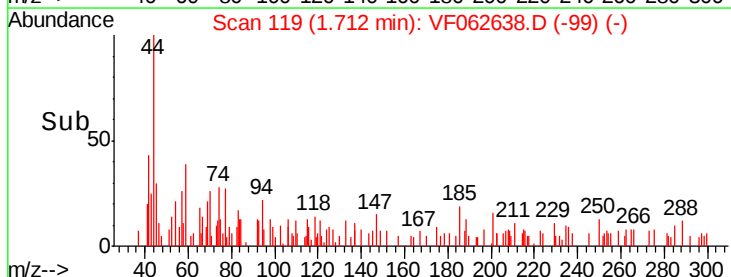
1500

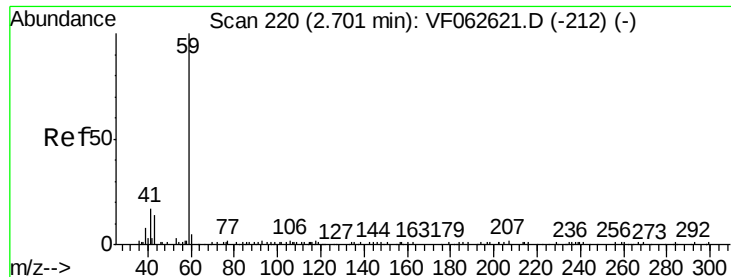
1000

500

0

Time-->

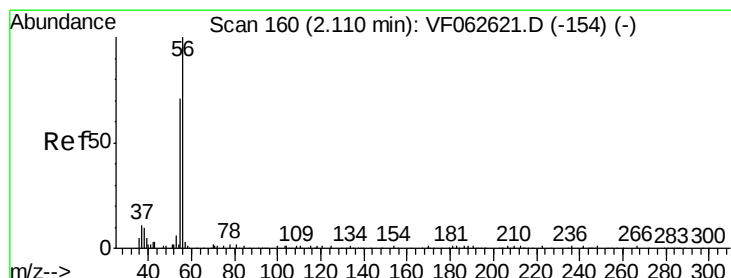
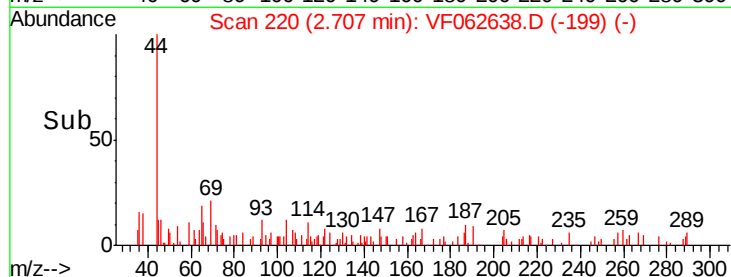
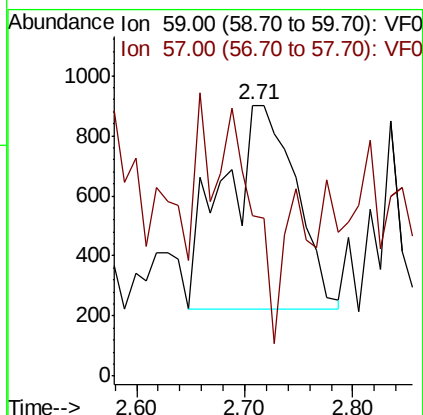
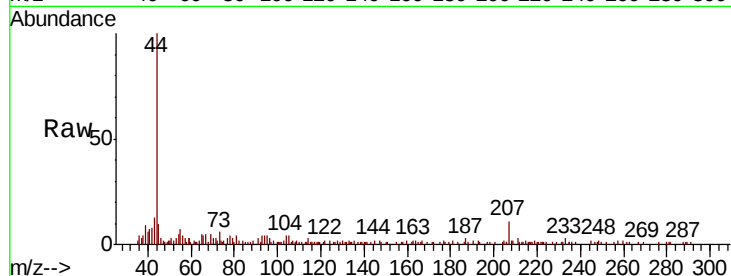




#11
Tert butyl alcohol
Concen: 9.243 ug/l
RT: 2.71 min Scan# 220
Delta R.T. 0.01 min
Lab File: VF062638.D
Acq: 17 May 2019 15:06

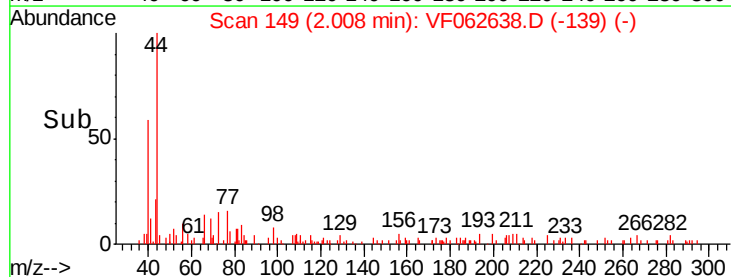
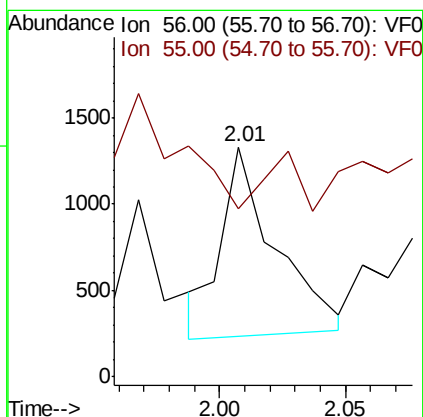
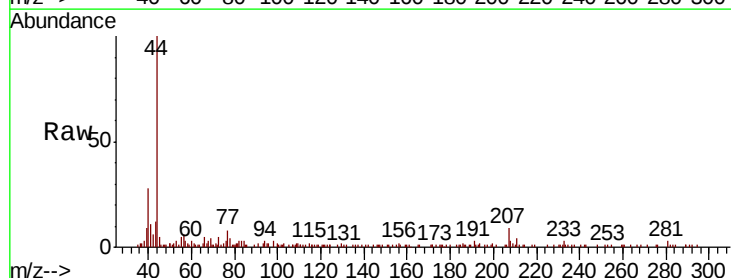
Instrument :
MSVOA_F
ClientSampled :
S-4RE

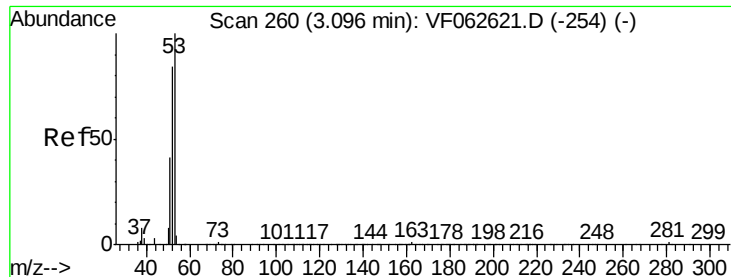
Tgt Ion: 59 Resp: 3161
Ion Ratio Lower Upper
59 100
57 59.2 9.3 13.9#



#13
Acrolein
Concen: 4.552 ug/l
RT: 2.01 min Scan# 149
Delta R.T. -0.10 min
Lab File: VF062638.D
Acq: 17 May 2019 15:06

Tgt Ion: 56 Resp: 1625
Ion Ratio Lower Upper
56 100
55 73.5 59.4 89.0





#15

Acrylonitrile

Concen: 2.079 ug/l

RT: 3.10 min Scan# 260

Delta R.T. 0.01 min

Lab File: VF062638.D

Acq: 17 May 2019 15:06

Instrument :

MSVOA_F

ClientSampleId :

S-4RE

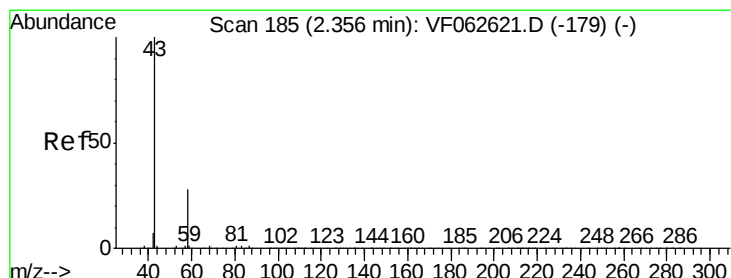
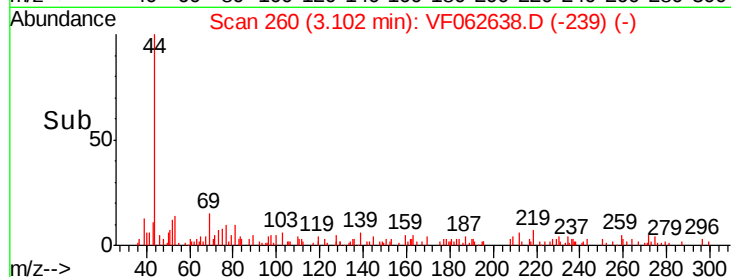
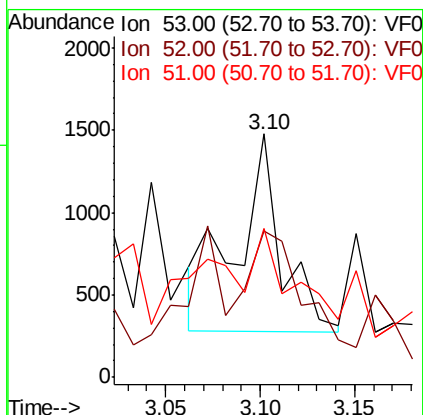
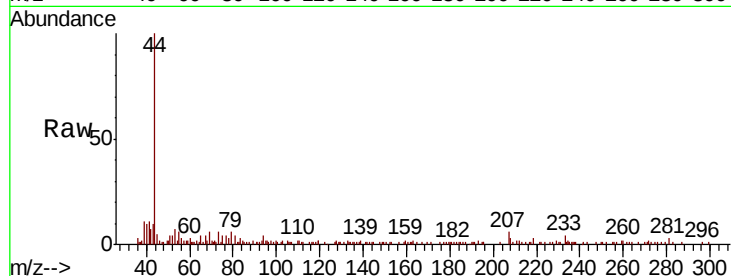
Tgt Ion: 53 Resp: 2006

Ion Ratio Lower Upper

53 100

52 60.2 67.3 100.9#

51 61.0 33.0 49.6#



#16

Acetone

Concen: 7.233 ug/l

RT: 2.36 min Scan# 185

Delta R.T. 0.01 min

Lab File: VF062638.D

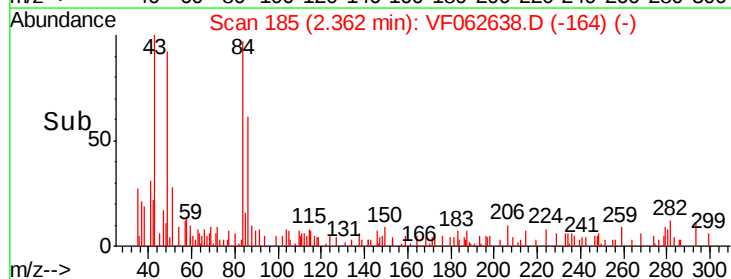
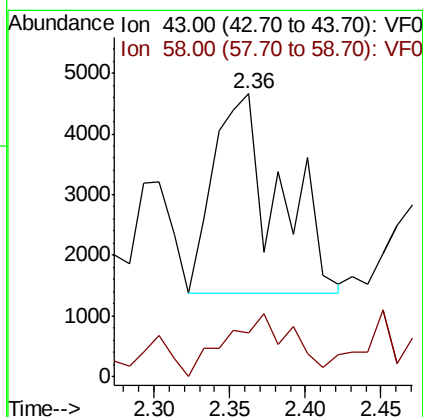
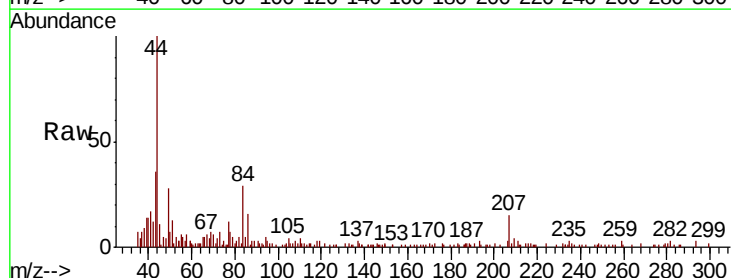
Acq: 17 May 2019 15:06

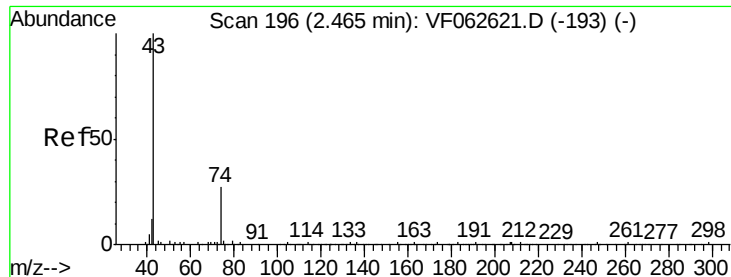
Tgt Ion: 43 Resp: 9720

Ion Ratio Lower Upper

43 100

58 15.4 22.6 33.8#

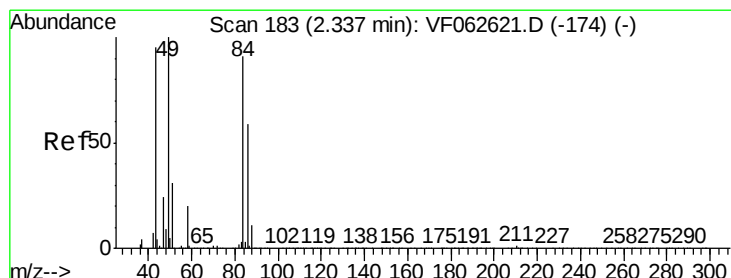
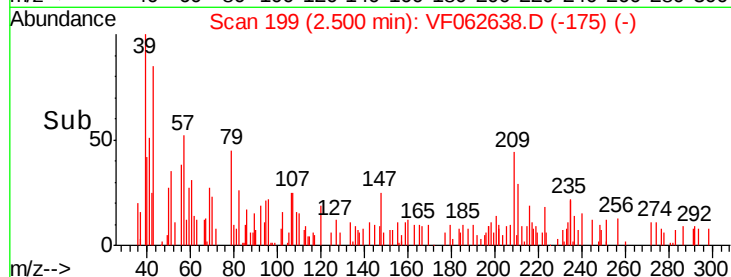
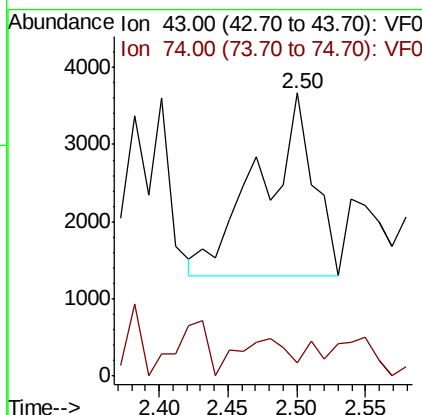
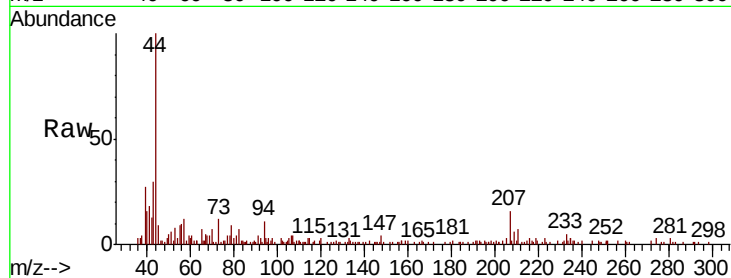




#18
Methyl Acetate
Concen: 3.041 ug/l
RT: 2.50 min Scan# 199
Delta R.T. 0.04 min
Lab File: VF062638.D
Acq: 17 May 2019 15:06

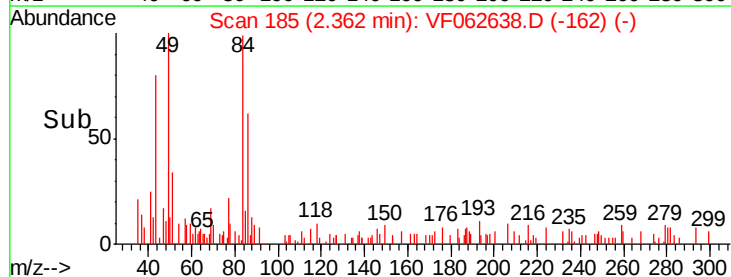
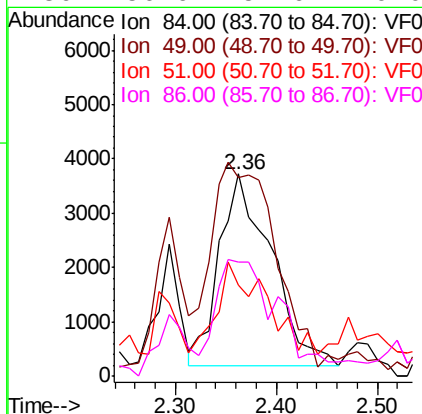
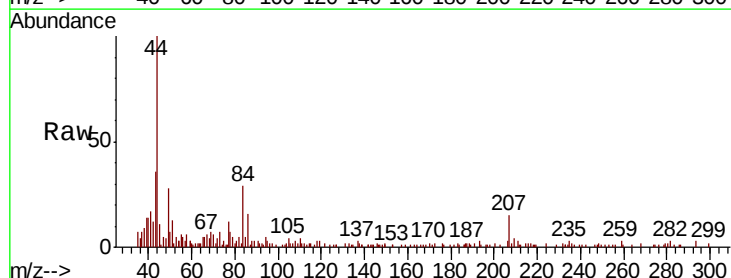
Instrument :
MSVOA_F
ClientSampleId :
S-4RE

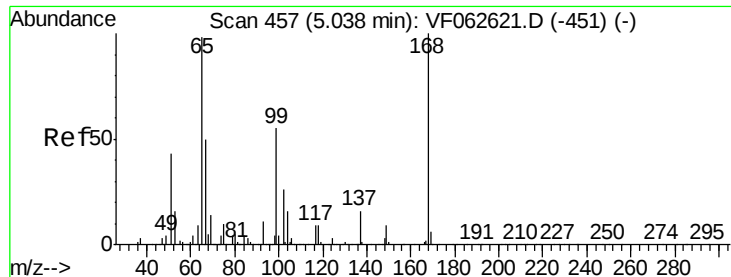
Tgt Ion: 43 Resp: 6423
Ion Ratio Lower Upper
43 100
74 4.6 18.9 28.3#



#20
Methylene Chloride
Concen: 1.894 ug/l
RT: 2.36 min Scan# 185
Delta R.T. 0.03 min
Lab File: VF062638.D
Acq: 17 May 2019 15:06

Tgt Ion: 84 Resp: 12760
Ion Ratio Lower Upper
84 100
49 98.3 89.8 134.8
51 45.1 28.4 42.6#
86 56.6 52.6 79.0

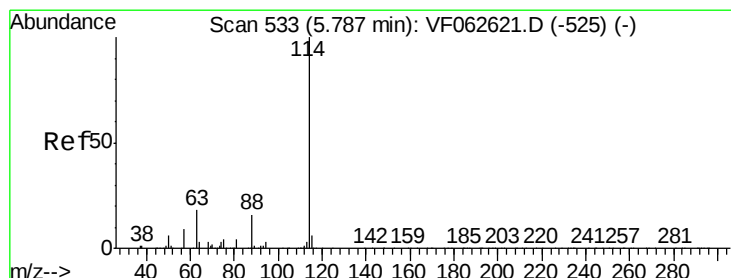
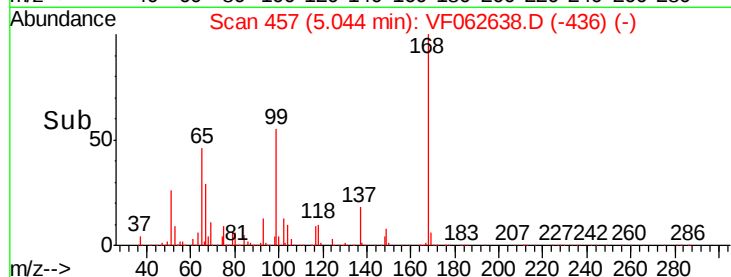
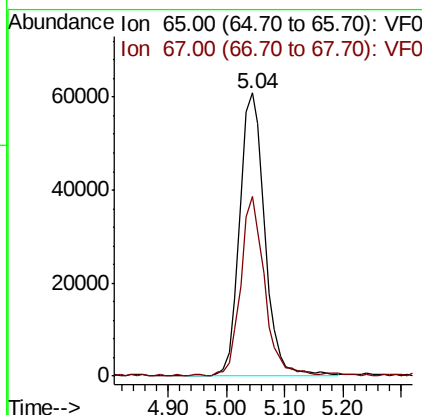
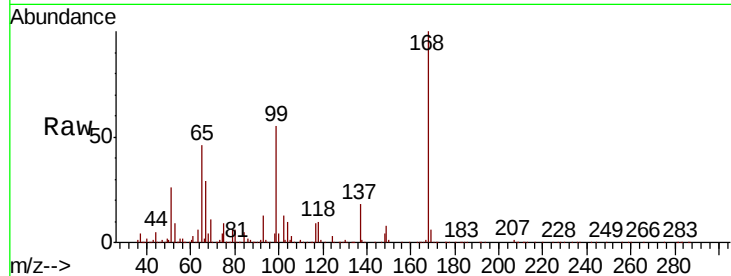




#33
 1,2-Dichloroethane-d4
 Concen: 35.165 ug/l
 RT: 5.04 min Scan# 457
 Delta R.T. 0.01 min
 Lab File: VF062638.D
 Acq: 17 May 2019 15:06

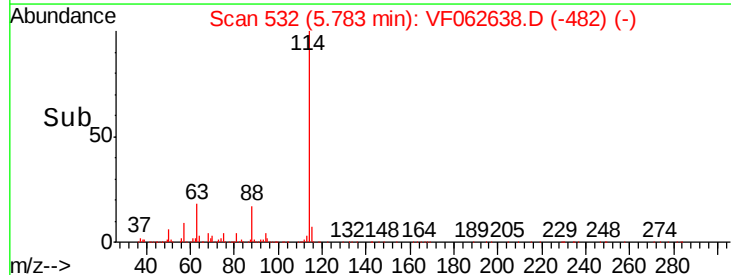
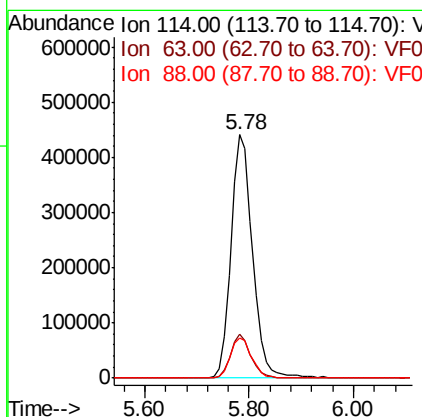
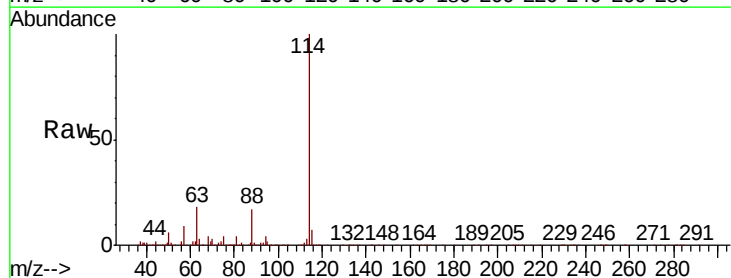
Instrument :
 MSVOA_F
 ClientSampleId :
 S-4RE

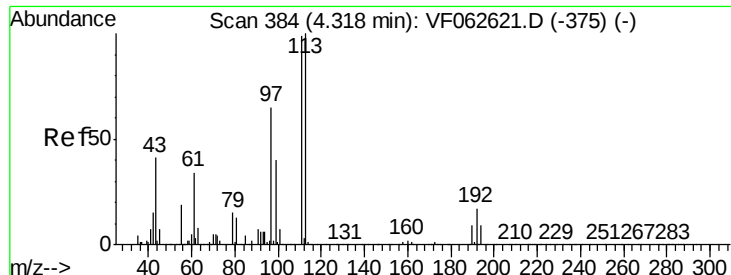
Tgt Ion: 65 Resp: 182165
 Ion Ratio Lower Upper
 65 100
 67 63.4 0.0 117.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.78 min Scan# 532
 Delta R.T. -0.00 min
 Lab File: VF062638.D
 Acq: 17 May 2019 15:06

Tgt Ion: 114 Resp: 1232882
 Ion Ratio Lower Upper
 114 100
 63 17.9 0.0 35.4
 88 16.6 0.0 32.4

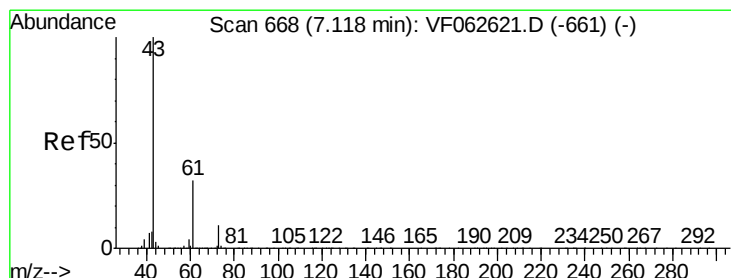
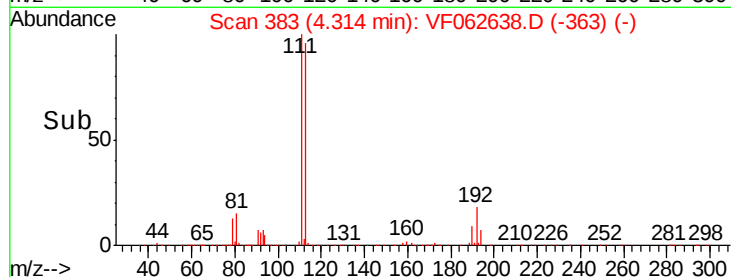
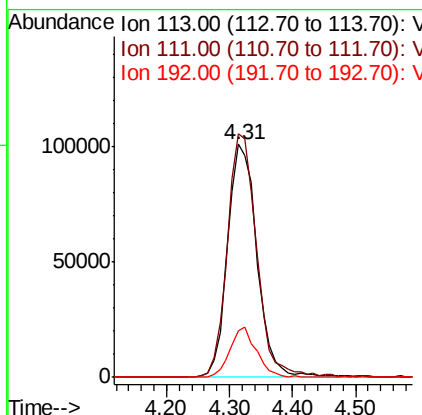
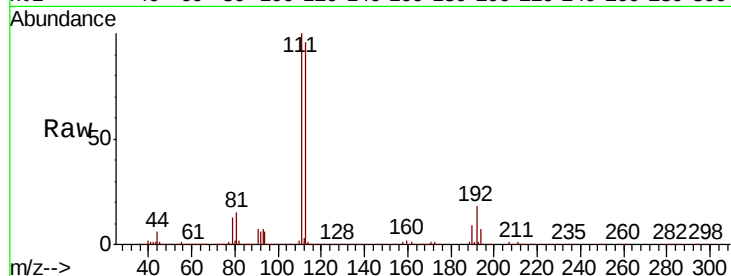




#35
 Dibromofluoromethane
 Concen: 34.514 ug/l
 RT: 4.31 min Scan# 383
 Delta R.T. -0.00 min
 Lab File: VF062638.D
 Acq: 17 May 2019 15:06

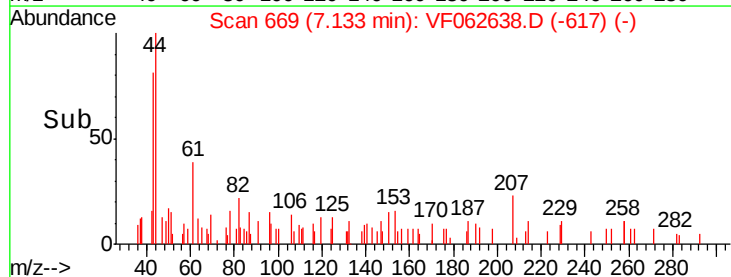
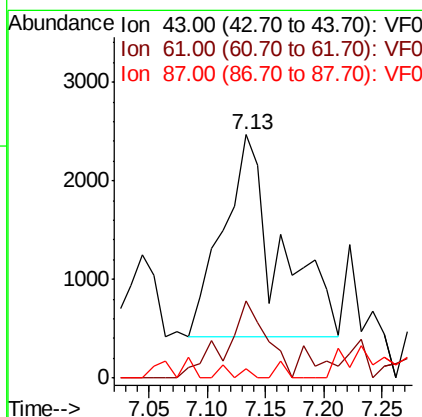
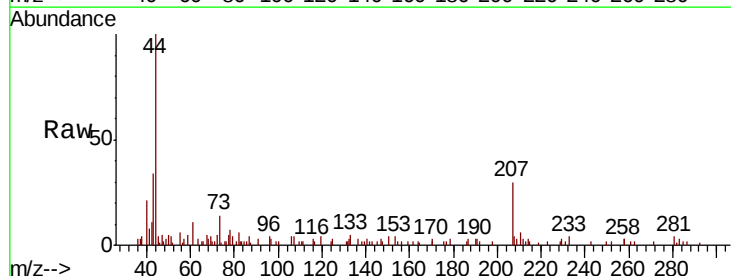
Instrument :
 MSVOA_F
 ClientSampled :
 S-4RE

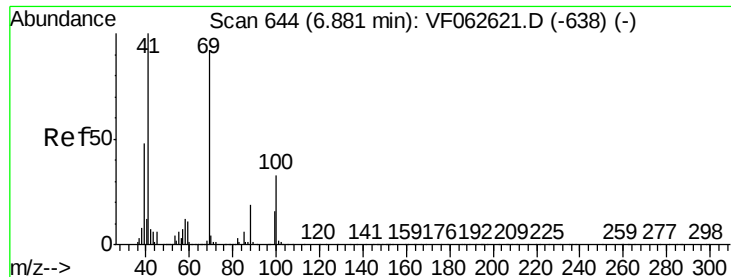
Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.4	79.4	119.2
192	19.7	13.4	20.2



#43
 Isopropyl Acetate
 Concen: 1.015 ug/l
 RT: 7.13 min Scan# 669
 Delta R.T. 0.02 min
 Lab File: VF062638.D
 Acq: 17 May 2019 15:06

Tgt Ion	Ratio	Lower	Upper
43	100		
61	31.5	25.8	38.8
87	4.1	0.4	0.6#





#49

1,4-Dioxane

Concen: 17.726 ug/l

RT: 6.91 min Scan# 646

Delta R.T. 0.03 min

Lab File: VF062638.D

Acq: 17 May 2019 15:06

Instrument :

MSVOA_F

ClientSampleId :

S-4RE

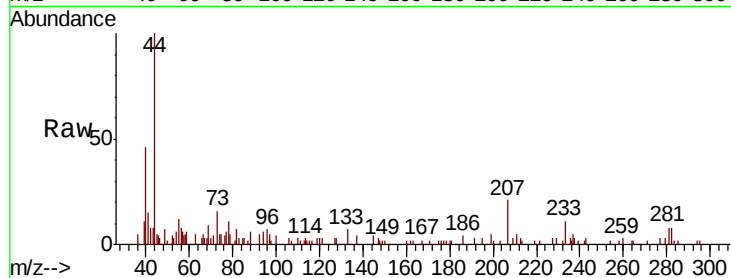
Tgt Ion: 88 Resp: 793

Ion Ratio Lower Upper

88 100

43 134.7 30.0 45.0#

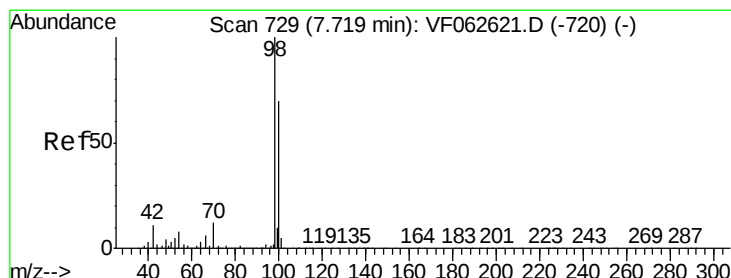
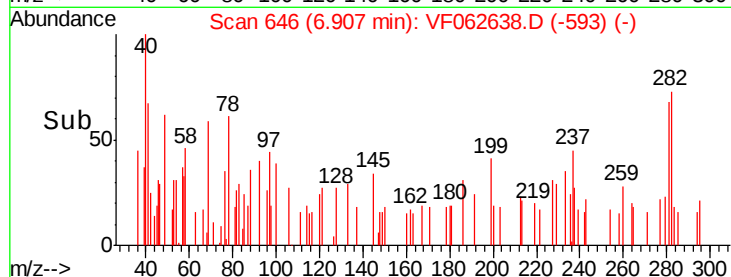
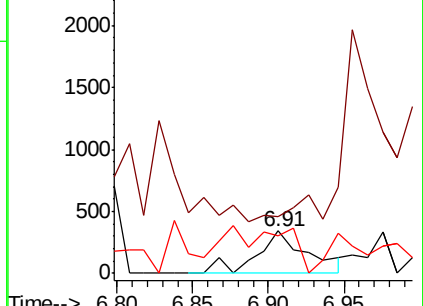
58 88.5 51.1 76.7#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 27.893 ug/l

RT: 7.72 min Scan# 729

Delta R.T. 0.01 min

Lab File: VF062638.D

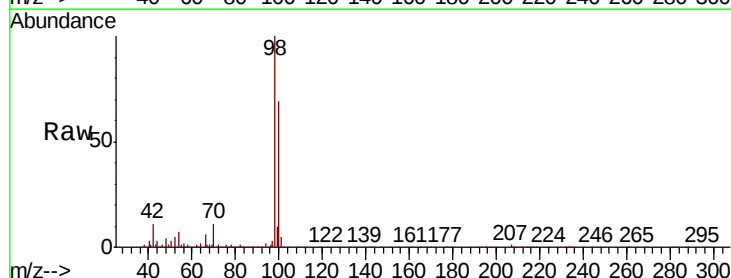
Acq: 17 May 2019 15:06

Tgt Ion: 98 Resp: 628293

Ion Ratio Lower Upper

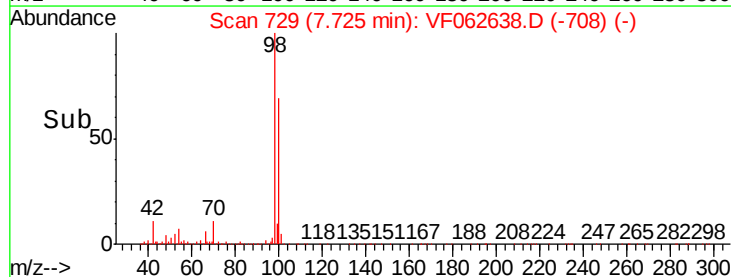
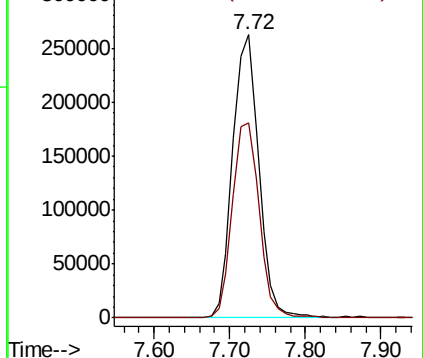
98 100

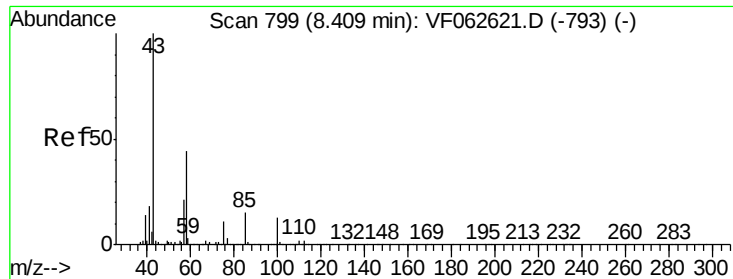
100 68.8 56.2 84.2



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

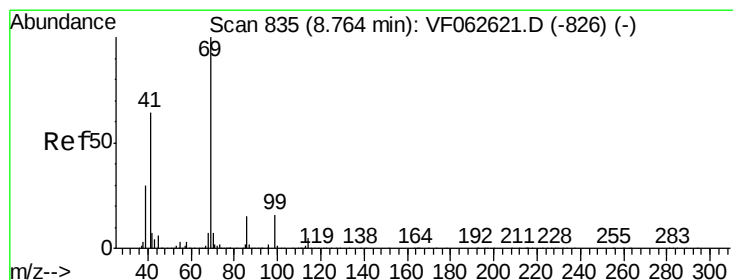
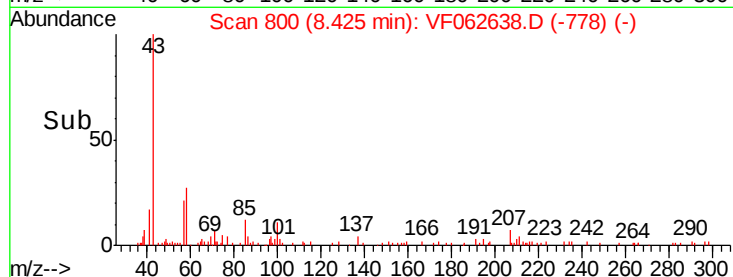
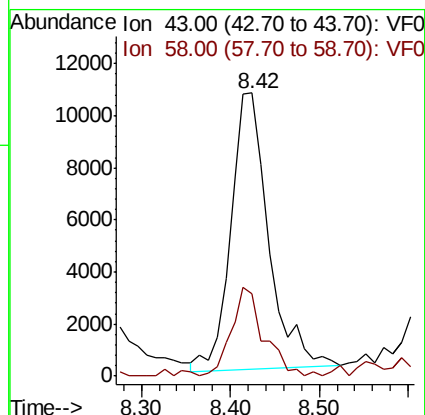
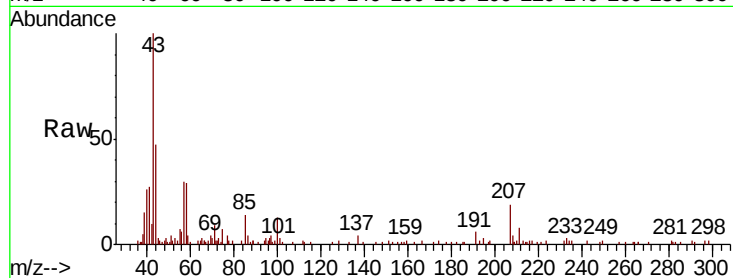




#51
 4-Methyl-2-Pentanone
 Concen: 6.920 ug/l
 RT: 8.42 min Scan# 800
 Delta R.T. 0.02 min
 Lab File: VF062638.D
 Acq: 17 May 2019 15:06

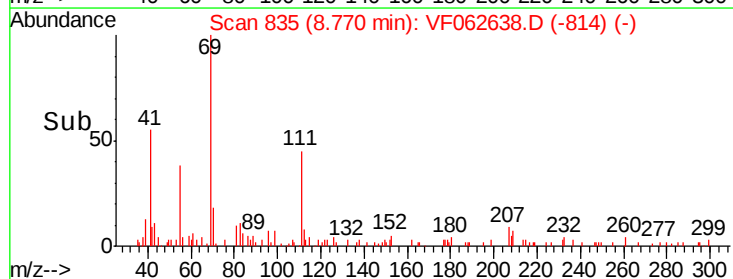
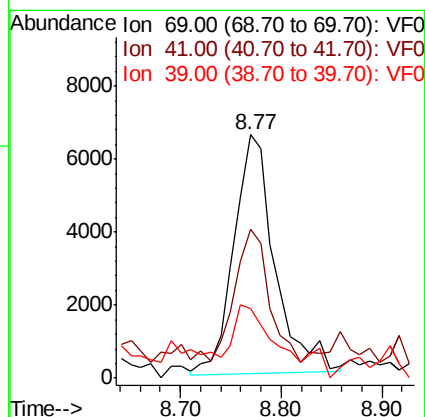
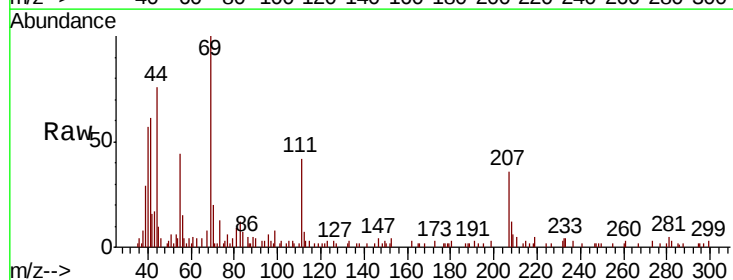
Instrument :
 MSVOA_F
 ClientSampleId :
 S-4RE

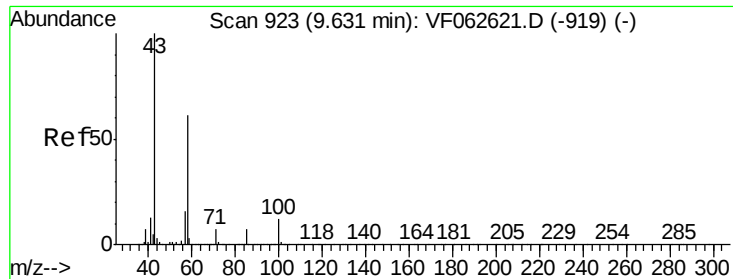
Tgt Ion: 43 Resp: 31609
 Ion Ratio Lower Upper
 43 100
 58 29.0 34.9 52.3#



#56
 Ethyl methacrylate
 Concen: 2.914 ug/l
 RT: 8.77 min Scan# 835
 Delta R.T. 0.01 min
 Lab File: VF062638.D
 Acq: 17 May 2019 15:06

Tgt Ion: 69 Resp: 18552
 Ion Ratio Lower Upper
 69 100
 41 61.1 51.4 77.2
 39 28.5 23.6 35.4

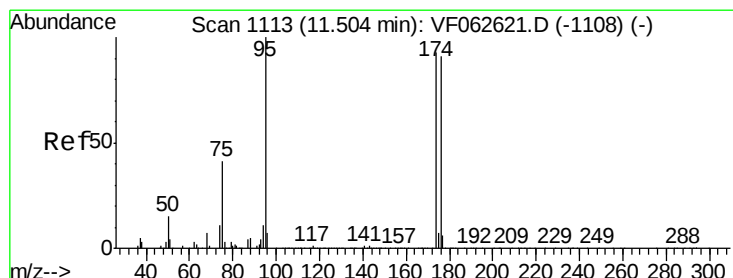
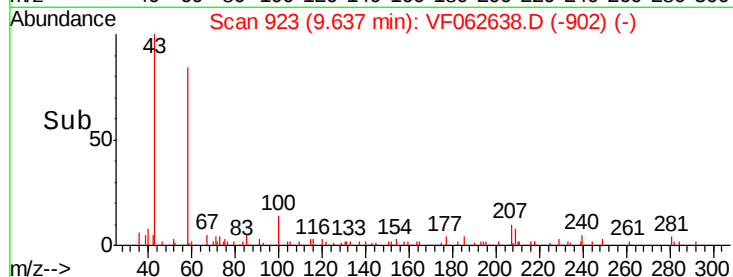
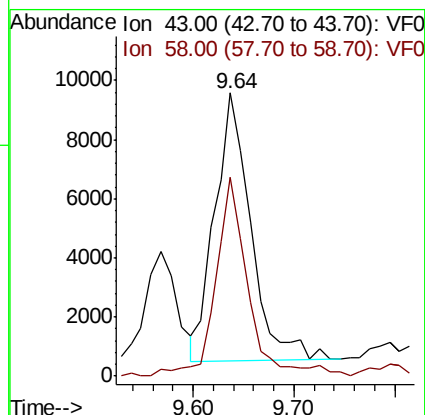
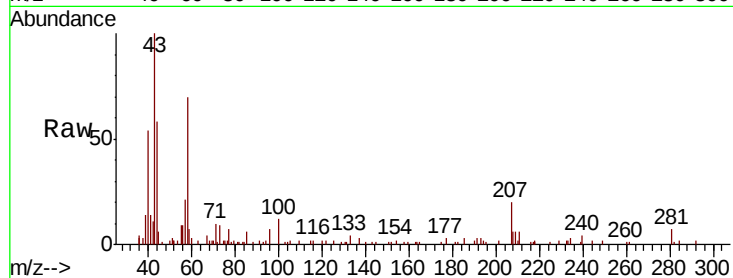




#59
2-Hexanone
Concen: Below Cal
RT: 9.64 min Scan# 923
Delta R.T. 0.01 min
Lab File: VF062638.D
Acq: 17 May 2019 15:06

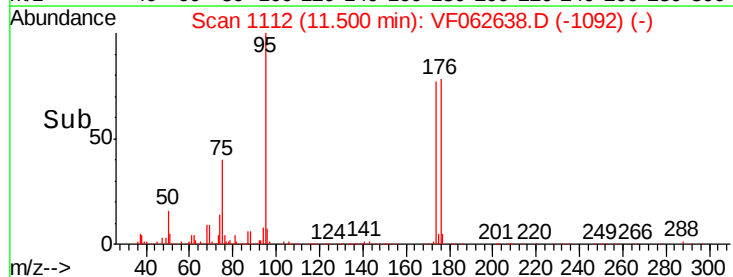
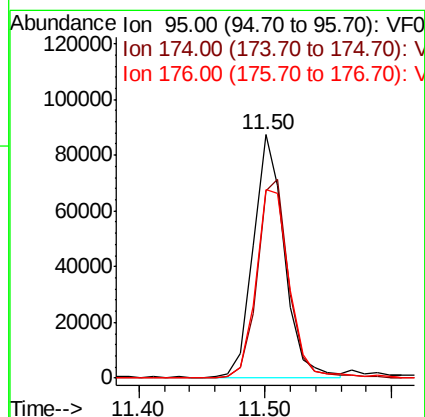
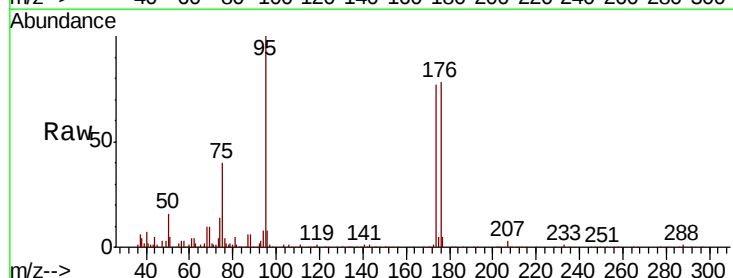
Instrument :
MSVOA_F
ClientSampleId :
S-4RE

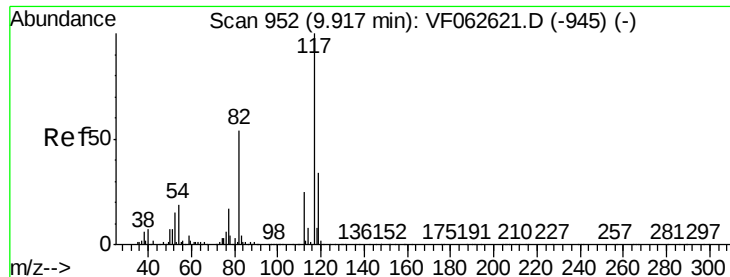
Tgt Ion: 43 Resp: 22694
Ion Ratio Lower Upper
43 100
58 70.1 28.1 84.4



#62
4-Bromofluorobenzene
Concen: 17.405 ug/l
RT: 11.50 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VF062638.D
Acq: 17 May 2019 15:06

Tgt Ion: 95 Resp: 148689
Ion Ratio Lower Upper
95 100
174 76.9 0.0 185.6
176 77.7 0.0 182.4

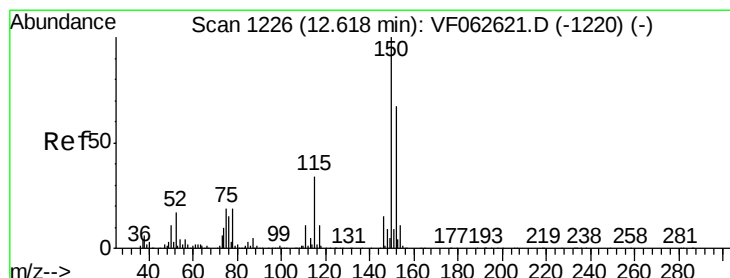
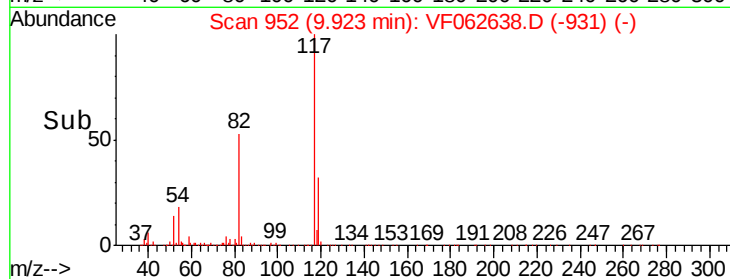
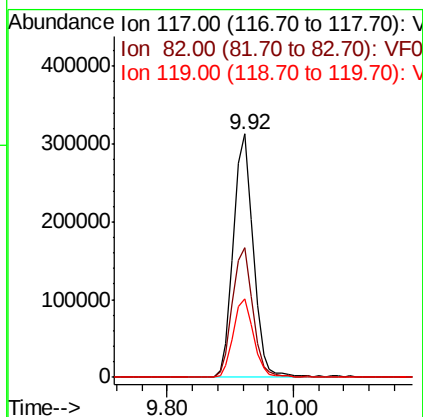
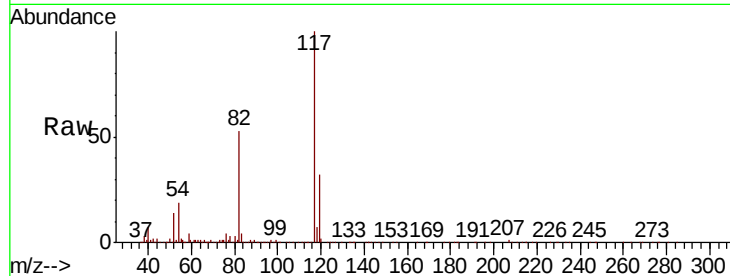




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 952
Delta R.T. 0.01 min
Lab File: VF062638.D
Acq: 17 May 2019 15:06

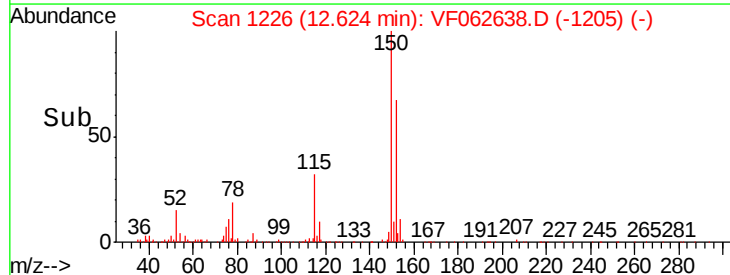
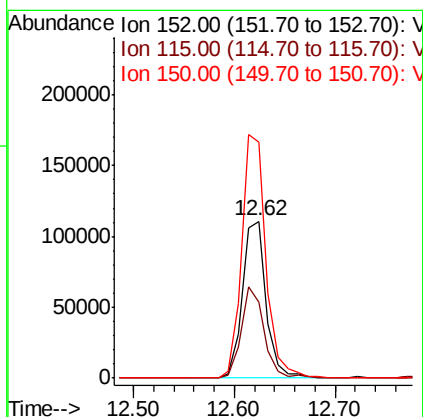
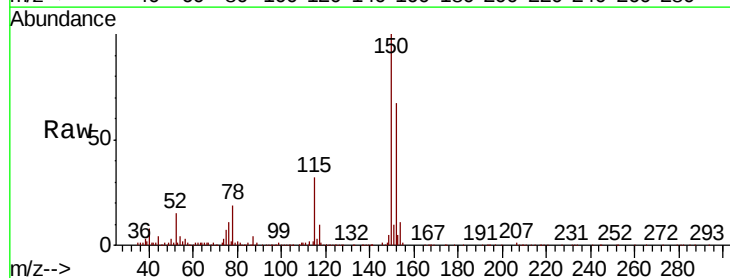
Instrument :
MSVOA_F
ClientSampleId :
S-4RE

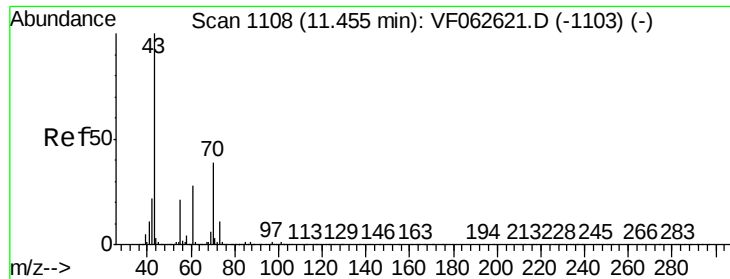
Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.3	43.3	64.9
119	32.2	27.4	41.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1226
Delta R.T. 0.01 min
Lab File: VF062638.D
Acq: 17 May 2019 15:06

Tgt Ion	Ratio	Lower	Upper
152	100		
115	48.3	25.2	75.6
150	150.0	0.0	306.2

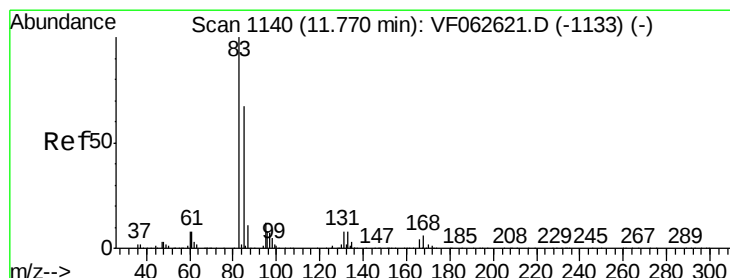
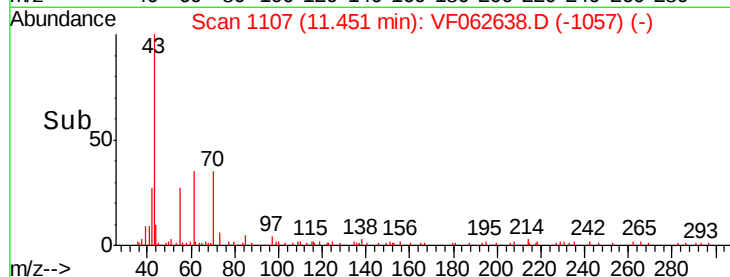
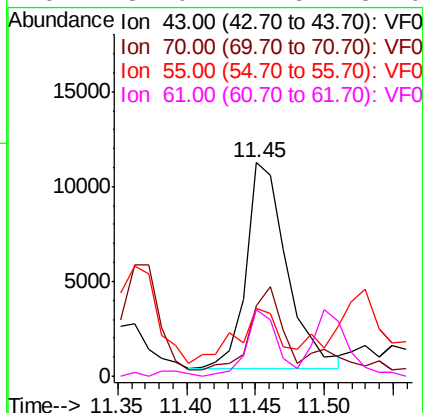
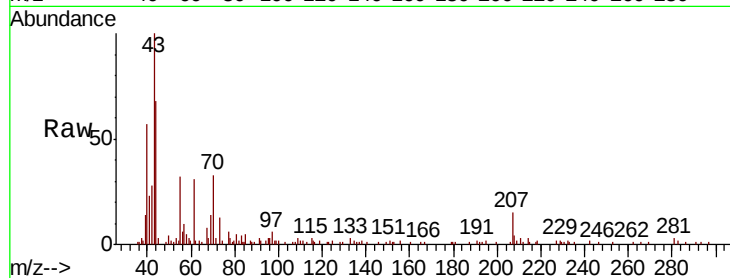




#74
N-amyI acetate
Concen: 1.391 ug/l
RT: 11.45 min Scan# 1107
Delta R.T. -0.00 min
Lab File: VF062638.D
Acq: 17 May 2019 15:06

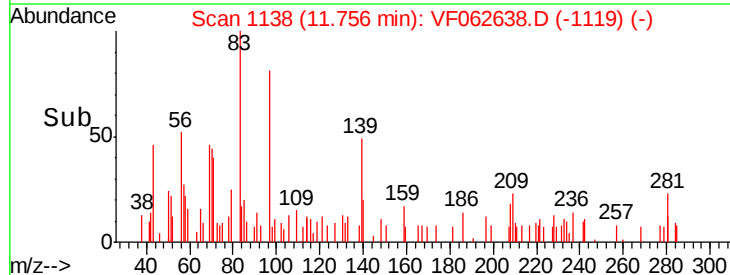
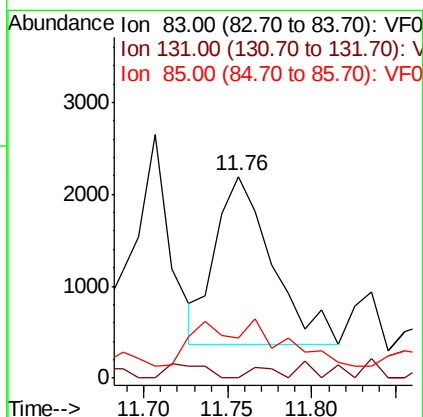
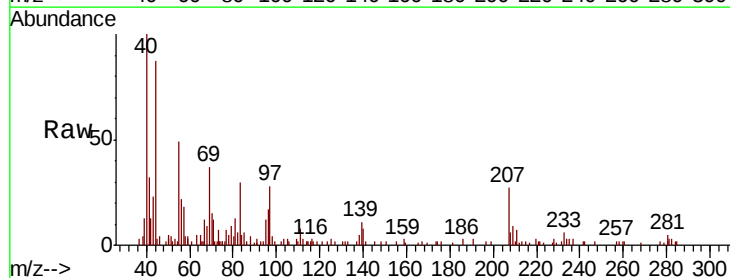
Instrument :
MSVOA_F
ClientSampleId :
S-4RE

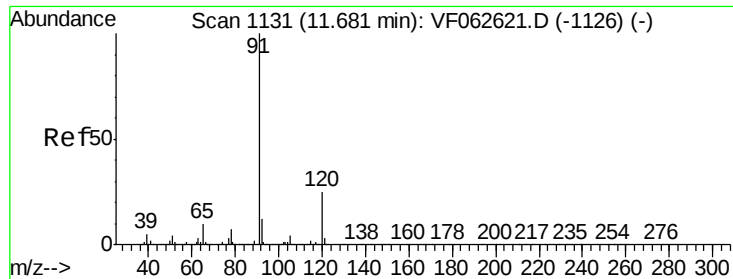
Tgt Ion:	43	Resp:	22125
Ion	Ratio	Lower	Upper
43	100		
70	32.8	30.9	46.3
55	32.0	17.0	25.4#
61	31.0	22.6	34.0



#75
1,1,2,2-Tetrachloroethane
Concen: 1.597 ug/l
RT: 11.76 min Scan# 1138
Delta R.T. -0.01 min
Lab File: VF062638.D
Acq: 17 May 2019 15:06

Tgt Ion:	83	Resp:	4276
Ion	Ratio	Lower	Upper
83	100		
131	5.9	4.0	12.0
85	19.8	33.5	100.5#





#78

n-propylbenzene

Concen: 1.141 ug/l

RT: 11.68 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VF062638.D

Acq: 17 May 2019 15:06

Instrument :

MSVOA_F

ClientSampleId :

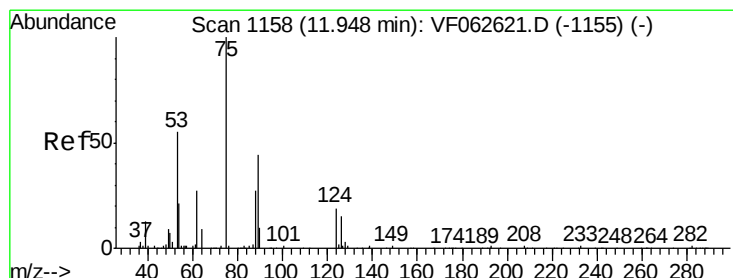
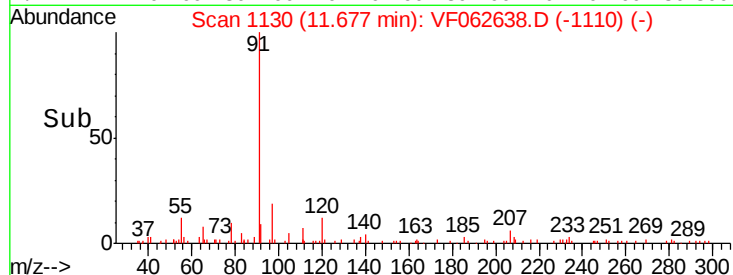
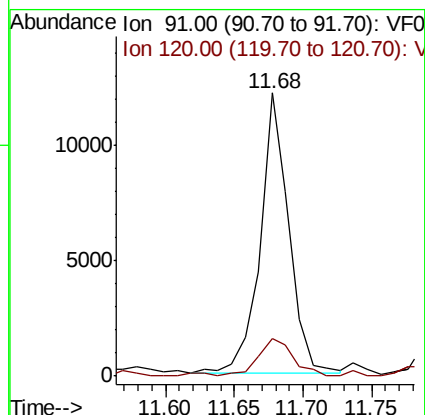
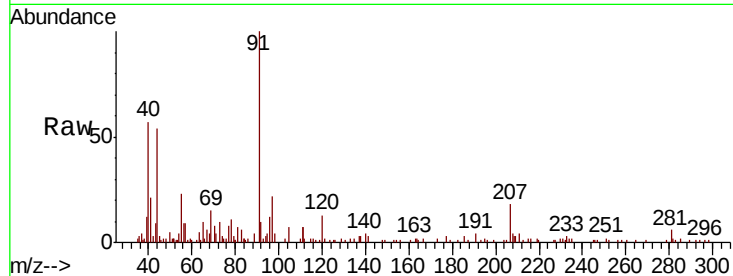
S-4RE

Tgt Ion: 91 Resp: 17683

Ion Ratio Lower Upper

91 100

120 13.1 12.7 38.1



#81

trans-1,4-Dichloro-2-butene

Concen: 1.349 ug/l

RT: 11.96 min Scan# 1159

Delta R.T. 0.02 min

Lab File: VF062638.D

Acq: 17 May 2019 15:06

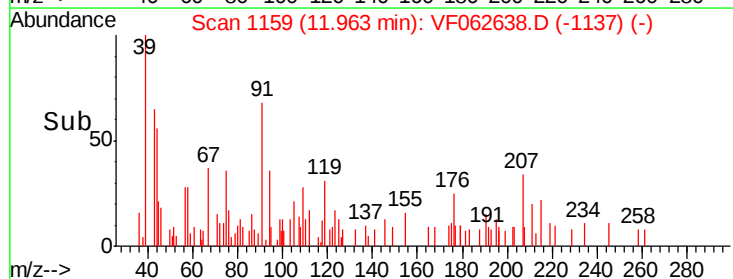
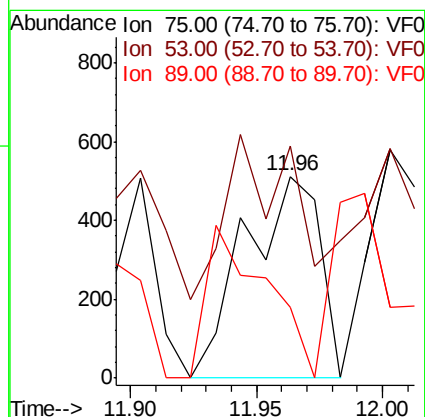
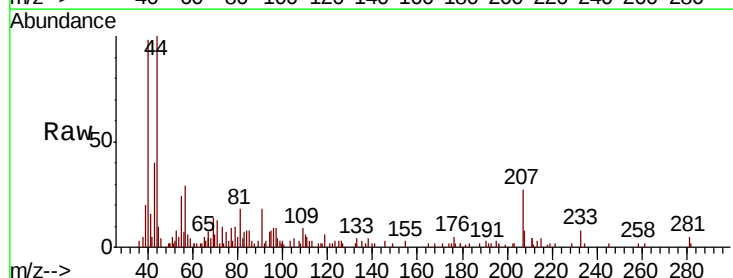
Tgt Ion: 75 Resp: 1055

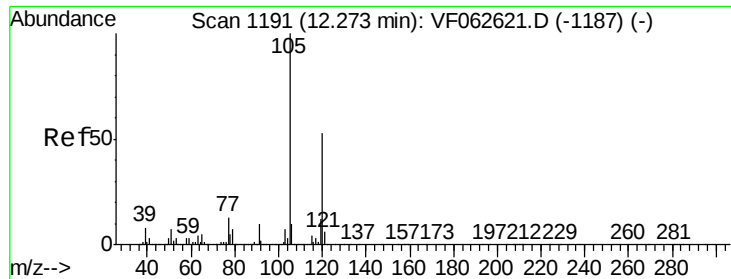
Ion Ratio Lower Upper

75 100

53 114.8 46.9 70.3#

89 35.0 36.4 54.6#

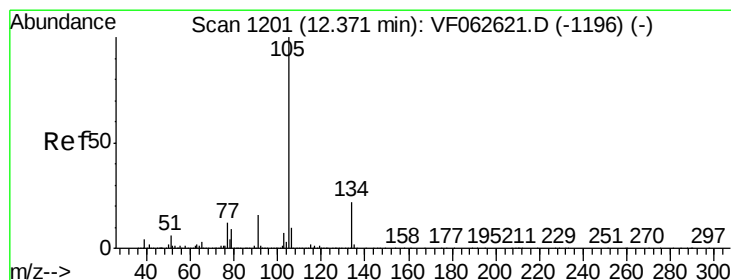
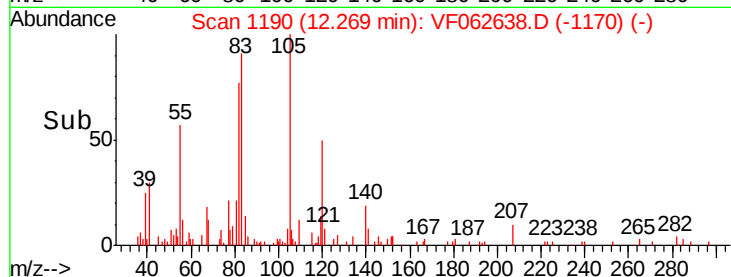
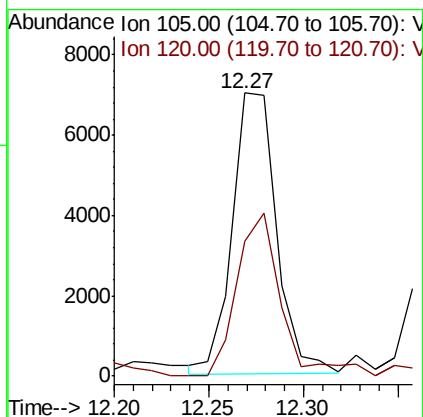
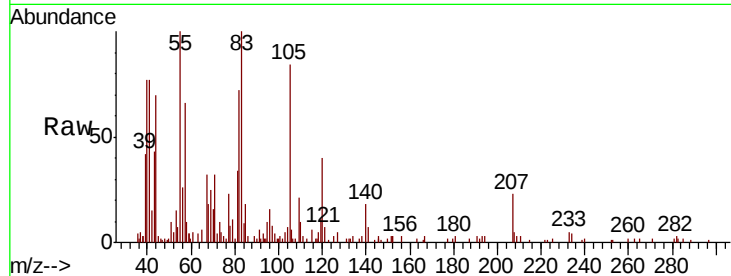




#84
 1,2,4-Trimethylbenzene
 Concen: 1.118 ug/l
 RT: 12.27 min Scan# 1190
 Delta R.T. -0.00 min
 Lab File: VF062638.D
 Acq: 17 May 2019 15:06

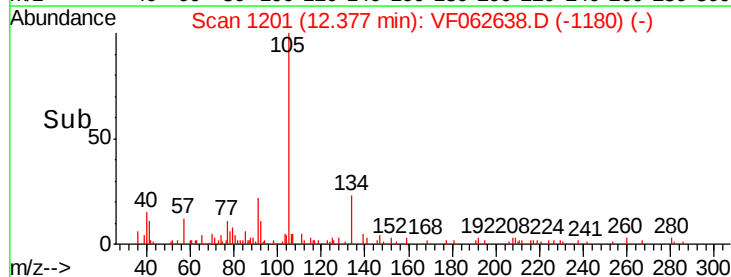
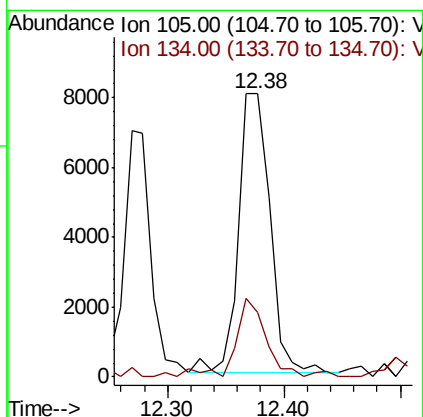
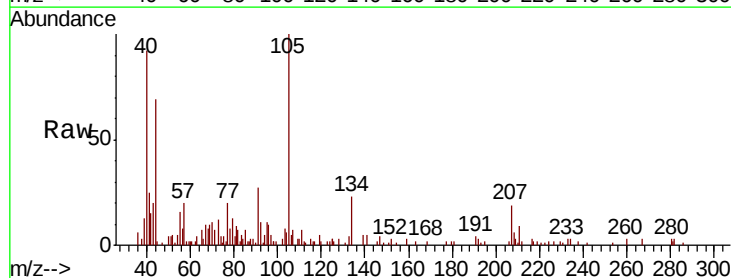
Instrument :
 MSVOA_F
 ClientSampleId :
 S-4RE

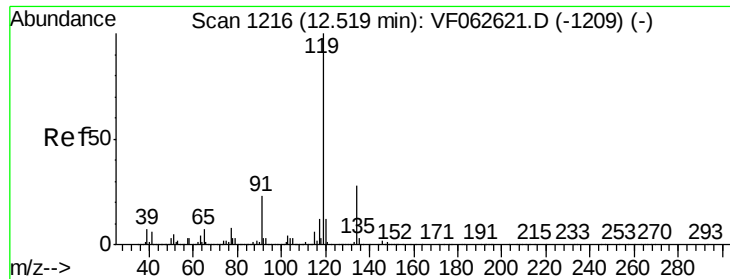
Tgt Ion:105 Resp: 11366
 Ion Ratio Lower Upper
 105 100
 120 47.6 26.7 80.1



#85
 sec-Butylbenzene
 Concen: 1.057 ug/l
 RT: 12.38 min Scan# 1201
 Delta R.T. 0.01 min
 Lab File: VF062638.D
 Acq: 17 May 2019 15:06

Tgt Ion:105 Resp: 15122
 Ion Ratio Lower Upper
 105 100
 134 23.0 10.8 32.4

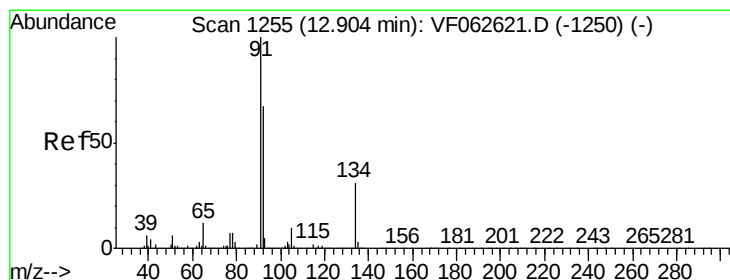
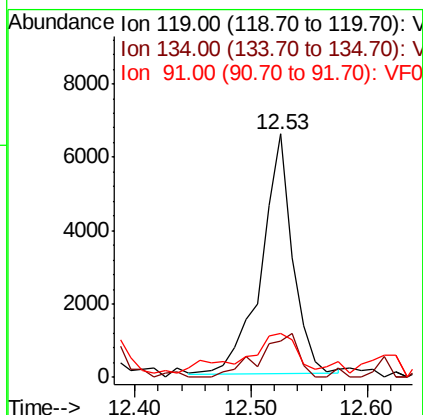
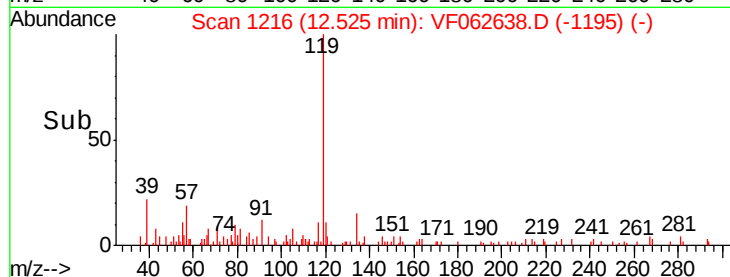
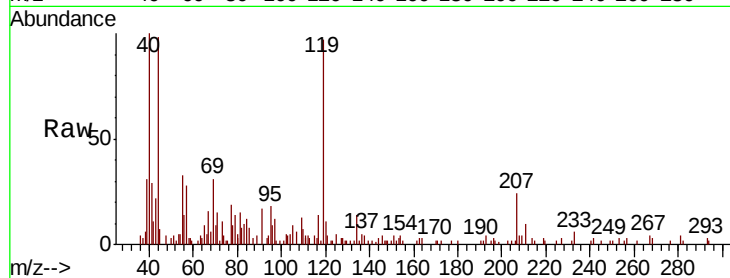




#86
p-Isopropyltoluene
Concen: 1.007 ug/l
RT: 12.53 min Scan# 1216
Delta R.T. 0.01 min
Lab File: VF062638.D
Acq: 17 May 2019 15:06

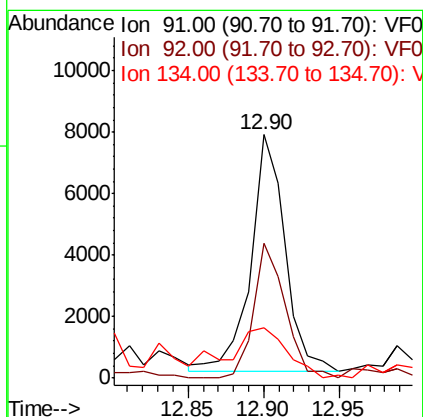
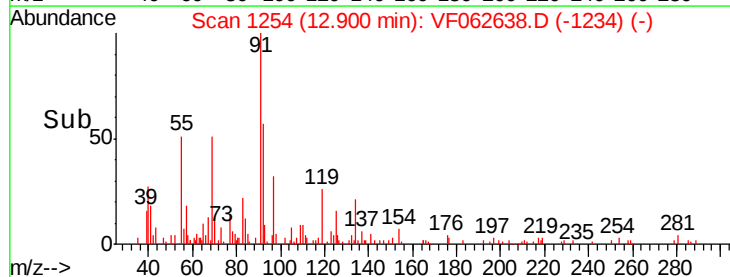
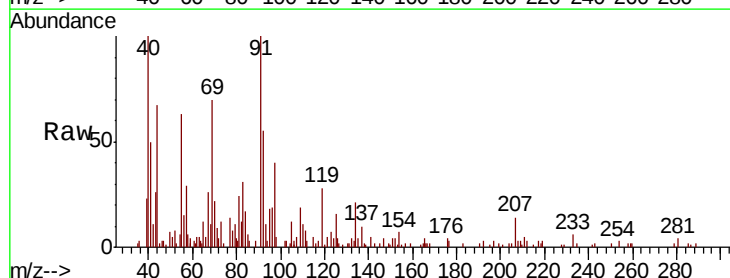
Instrument :
MSVOA_F
ClientSampleId :
S-4RE

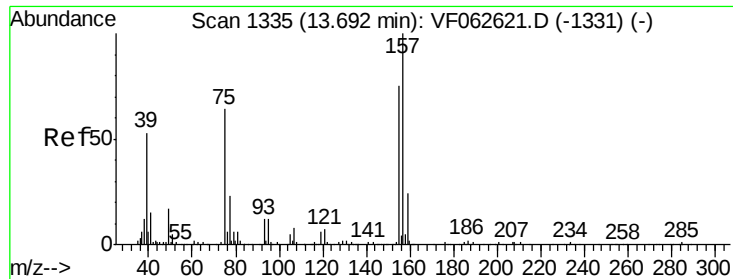
Tgt Ion	Ratio	Lower	Upper
119	100		
134	14.7	14.1	42.3
91	17.9	11.4	34.2



#89
n-Butylbenzene
Concen: 1.020 ug/l
RT: 12.90 min Scan# 1254
Delta R.T. -0.00 min
Lab File: VF062638.D
Acq: 17 May 2019 15:06

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.3	33.3	99.8
134	20.7	15.4	46.4





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.333 ug/l

RT: 13.70 min Scan# 1335

Delta R.T. 0.01 min

Lab File: VF062638.D

Acq: 17 May 2019 15:06

Instrument :

MSVOA_F

ClientSampled :

S-4RE

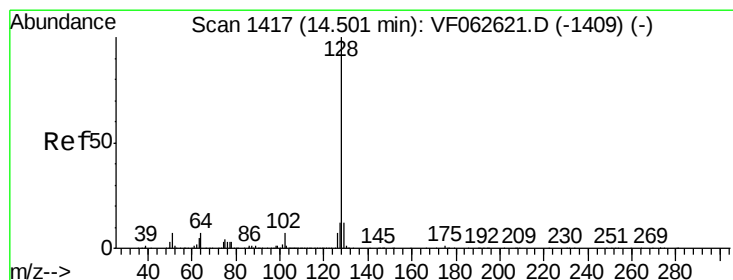
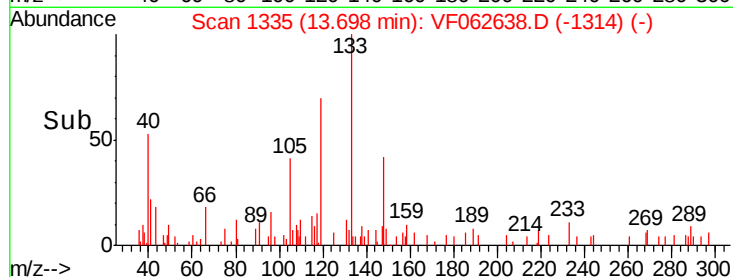
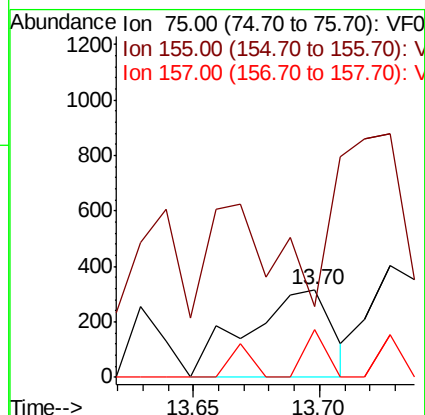
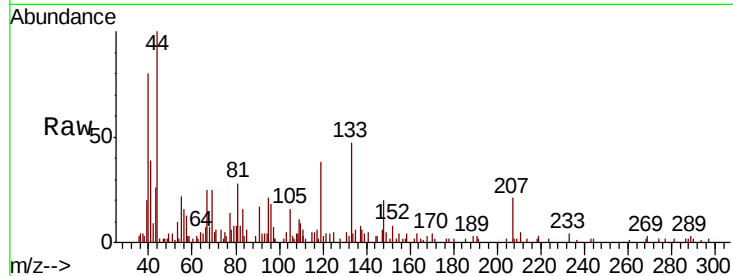
Tgt Ion: 75 Resp: 745

Ion Ratio Lower Upper

75 100

155 81.1 58.1 174.3

157 54.9 77.8 233.4#



#95

Naphthalene

Concen: 4.467 ug/l

RT: 14.50 min Scan# 1416

Delta R.T. -0.00 min

Lab File: VF062638.D

Acq: 17 May 2019 15:06

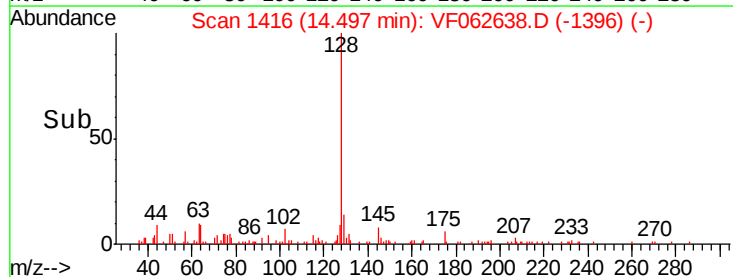
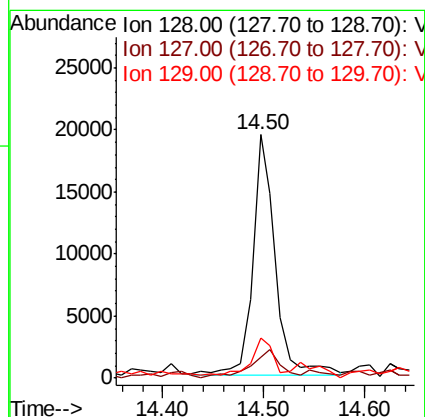
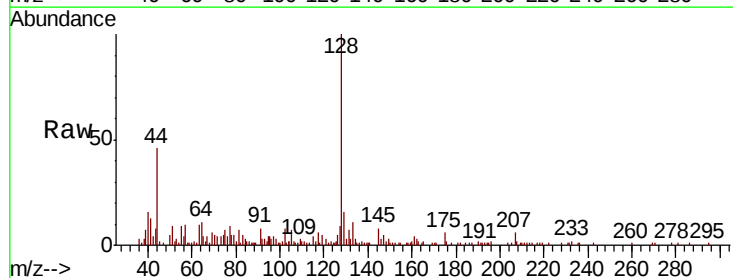
Tgt Ion: 128 Resp: 30507

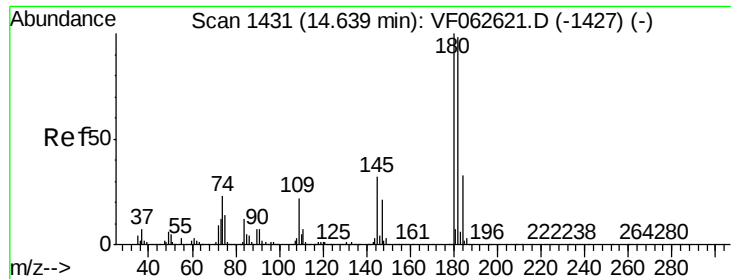
Ion Ratio Lower Upper

128 100

127 8.6 9.7 14.5#

129 16.3 9.3 13.9#





#96
 1,2,3-Trichlorobenzene
 Concen: 1.095 ug/l
 RT: 14.65 min Scan# 1432
 Delta R.T. 0.02 min
 Lab File: VF062638.D
 Acq: 17 May 2019 15:06

Instrument :
 MSVOA_F
 ClientSampleId :
 S-4RE

Tgt Ion	Ratio	Lower	Upper
180	100		
182	61.7	48.9	146.7
145	42.0	16.1	48.2

