

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032519\
 Data File : VF062135.D
 Acq On : 25 Mar 2019 16:52
 Operator : VA/AP
 Sample : K2081-20
 Misc : 7.05µ/5mL/MSVOA-F/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Mar 26 04:21:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F032219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 01:16:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	0.00	168	0	0.00	ug/l	-4.91
34) 1,4-Difluorobenzene	0.00	114	0	0.00	ug/l	-5.63
63) Chlorobenzene-d5	0.00	117	0	0.00	ug/l	-9.81
72) 1,4-Dichlorobenzene-d4	12.55	152	321	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.03	65	66	0.00	ug/l	0.15
Spiked Amount 50.000			Recovery	=	0.00%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount 50.000			Recovery	=	0.00%	
50) Toluene-d8	0.00	98	0	0.00	ug/l	
Spiked Amount 50.000			Recovery	=	0.00%	
62) 4-Bromofluorobenzene	11.39	95	678	0.00	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	0.00%	

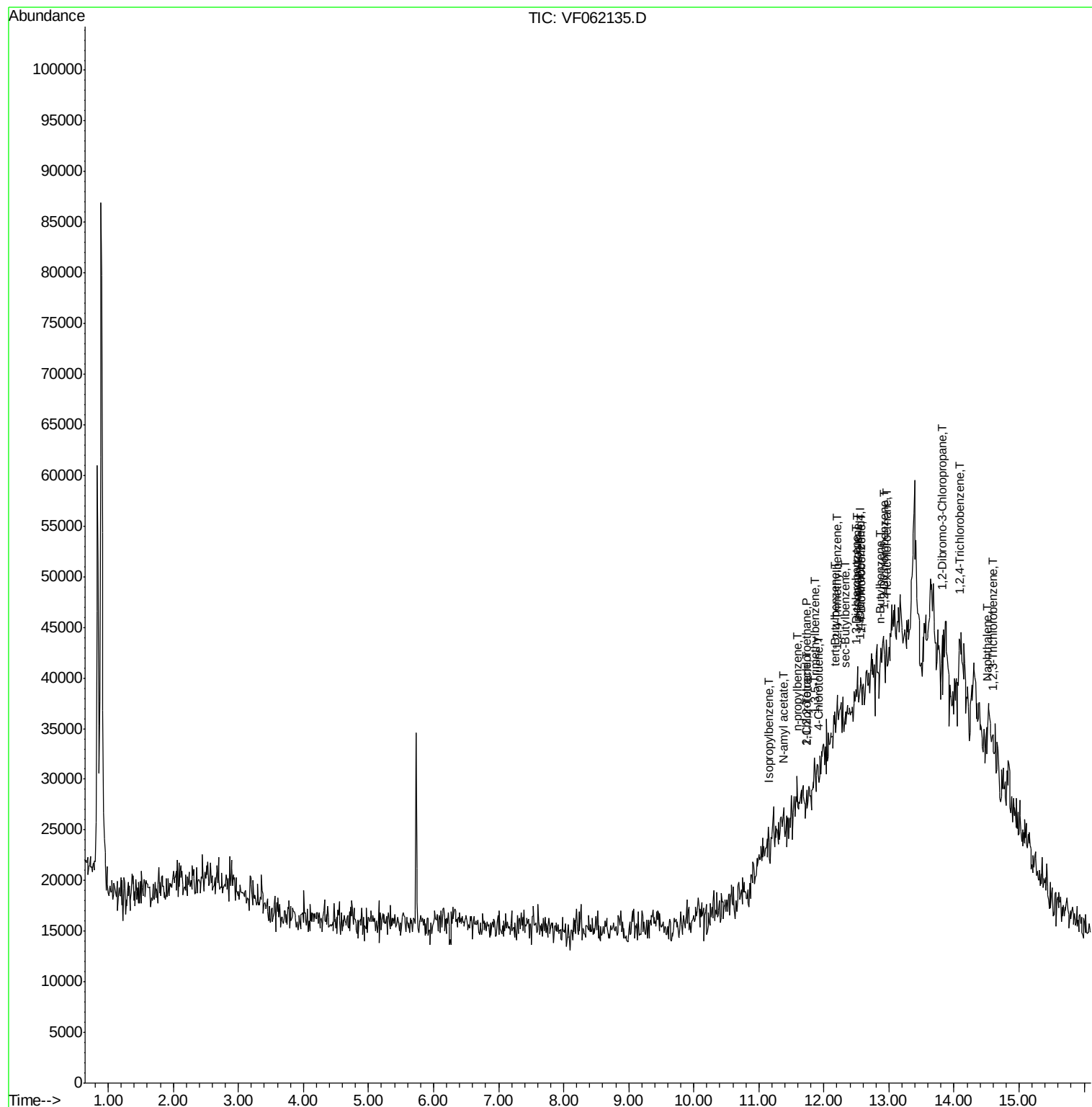
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
73) Isopropylbenzene	11.16	105	290	12.839	ug/l #	47
74) N-amyl acetate	11.38	43	899	167.035	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	11.73	83	550	141.813	ug/l #	24
78) n-propylbenzene	11.59	91	497	18.949	ug/l #	53
79) 2-Chlorotoluene	11.73	91	263	18.040	ug/l #	38
80) 1,3,5-Trimethylbenzene	11.87	105	248	13.348	ug/l #	24
82) 4-Chlorotoluene	11.92	91	162	10.838	ug/l #	40
83) tert-Butylbenzene	12.17	119	795	40.876	ug/l #	46
84) 1,2,4-Trimethylbenzene	12.20	105	386	21.193	ug/l	96
85) sec-Butylbenzene	12.33	105	619	24.602	ug/l #	56
86) p-Isopropyltoluene	12.51	119	268	12.294	ug/l #	1
87) 1,3-Dichlorobenzene	12.50	146	143	13.948	ug/l #	1
88) 1,4-Dichlorobenzene	12.58	146	80	7.996	ug/l #	1
89) n-Butylbenzene	12.85	91	1529	73.520	ug/l #	36
90) Hexachloroethane	12.95	117	97	18.688	ug/l #	22
91) 1,2-Dichlorobenzene	12.94	146	60	6.232	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	13.82	75	85	144.646	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.09	180	72	10.731	ug/l #	11
95) Naphthalene	14.51	128	367	31.212	ug/l #	35
96) 1,2,3-Trichlorobenzene	14.61	180	62	9.872	ug/l #	1

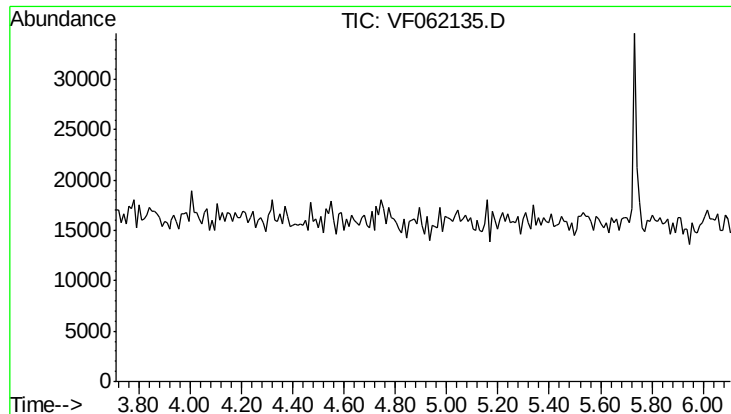
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Mar 23 01:16:37 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 0.000 ug/l

Expected RT: 4.91 min

Lab File: VF062135.D

Acq: 25 Mar 2019 16:52

Tot Ion: 168

Sig Exp Ratio

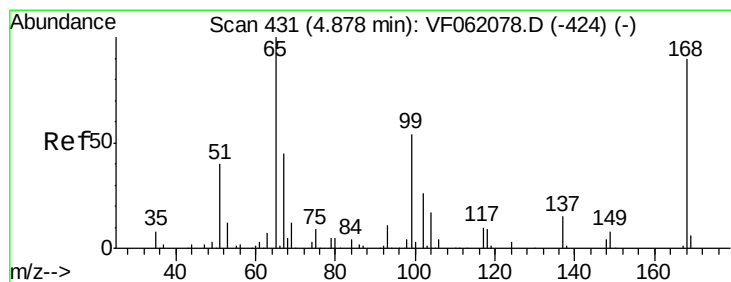
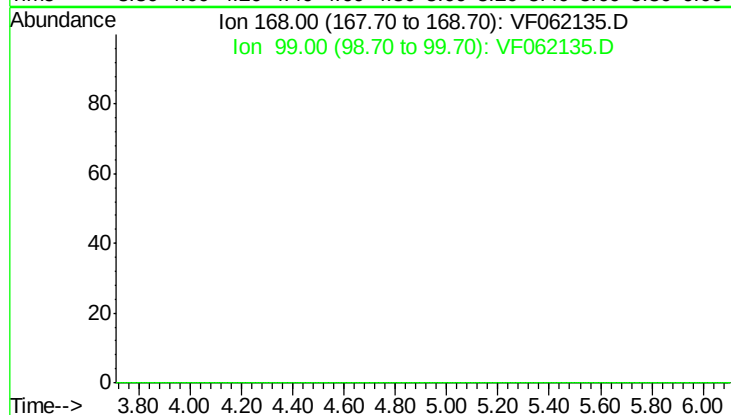
168 100

99 47.8

Instrument :

MSVOA_F

ClientSampleId :



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

RT: 5.03 min Scan# 446

Delta R.T. 0.15 min

Lab File: VF062135.D

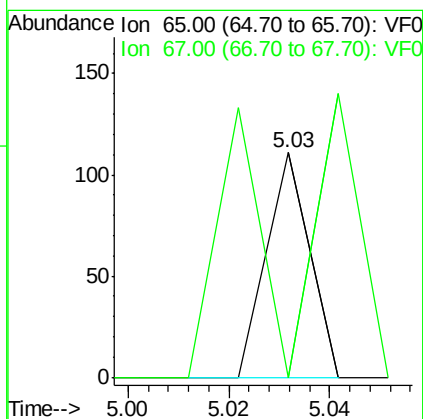
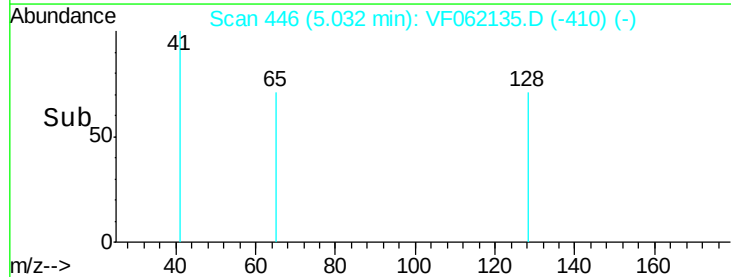
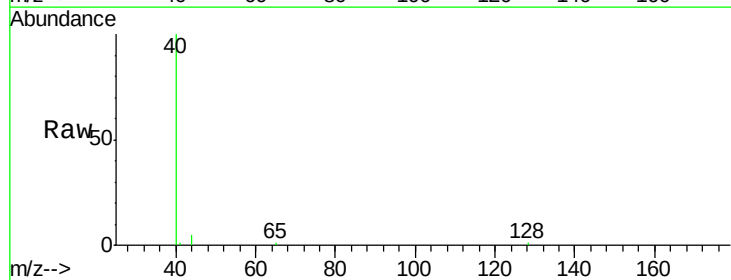
Acq: 25 Mar 2019 16:52

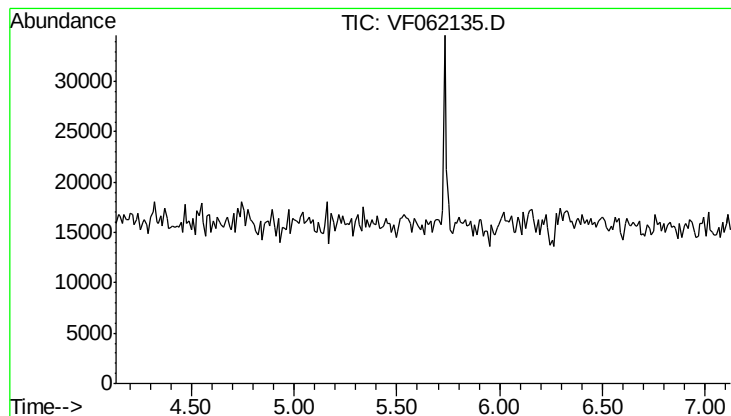
Tgt Ion: 65 Resp: 66

Ion Ratio Lower Upper

65 100

67 0.0 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 0.000 ug/l

Expected RT: 5.63 min

Lab File: VF062135.D

Acq: 25 Mar 2019 16:52

Instrument :

MSVOA_F

ClientSampleId :

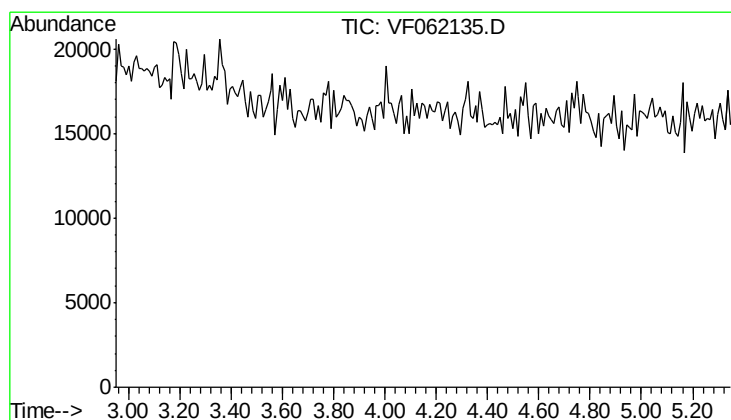
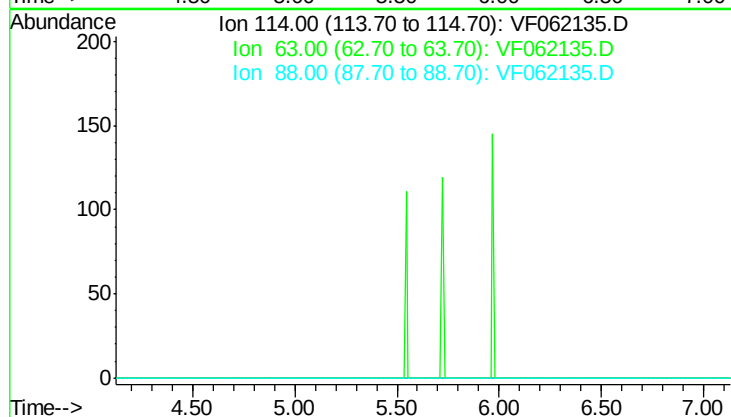
Tot Ion: 114

Sig Exp Ratio

114 100

63 18.9

88 18.2



#35

Dibromofluoromethane

Concen: 0.000 ug/l

Expected RT: 4.15 min

Lab File: VF062135.D

Acq: 25 Mar 2019 16:52

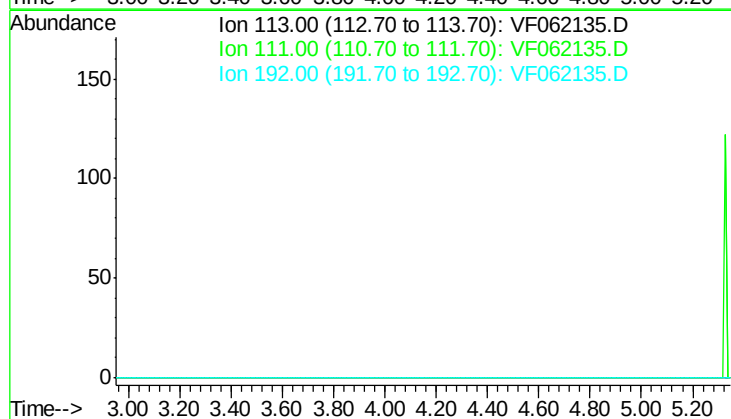
Tgt Ion: 113

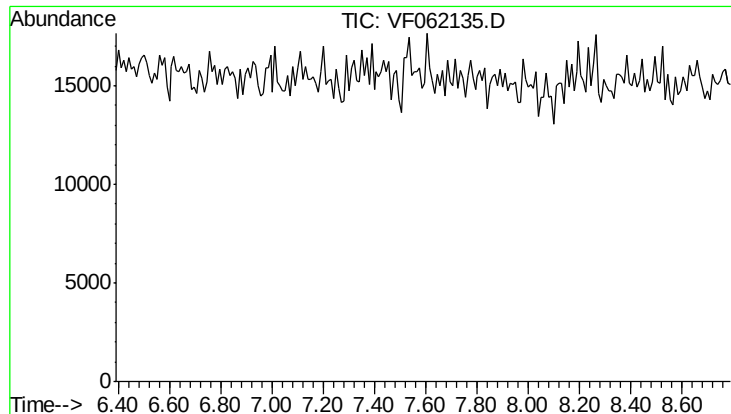
Sig Exp Ratio

113 100

111 94.2

192 15.4



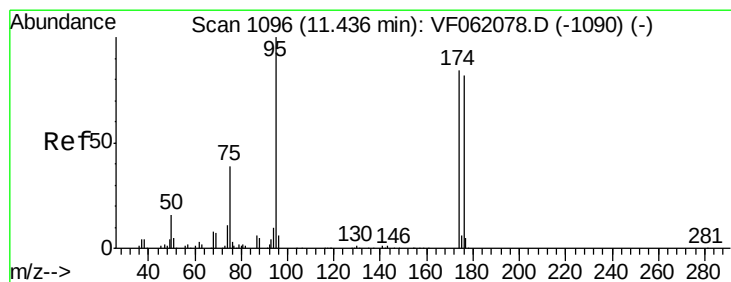
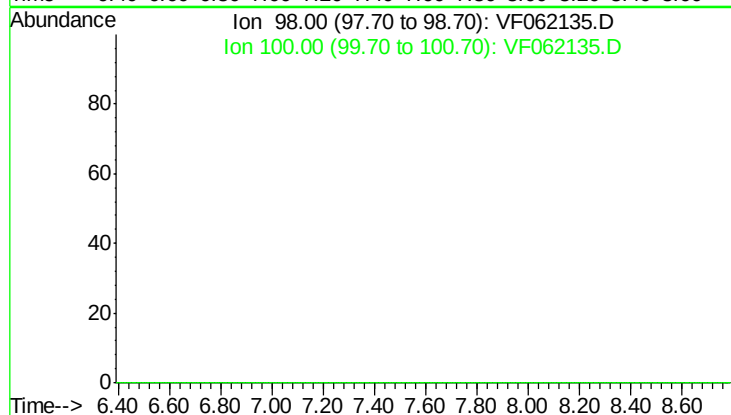


#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 7.59 min

Lab File: VF062135.D
Acq: 25 Mar 2019 16:52

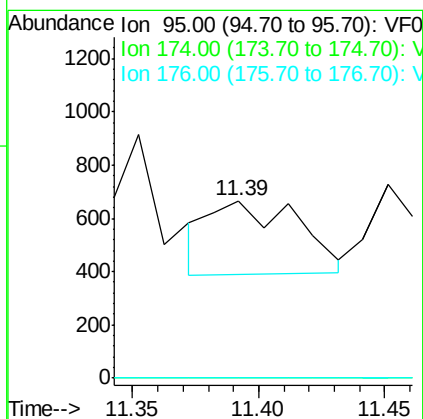
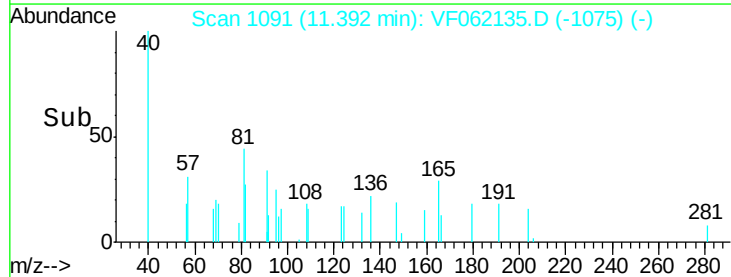
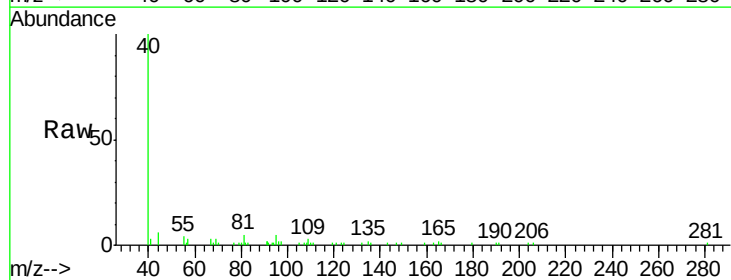
Instrument :
MSVOA_F
ClientSampleId :

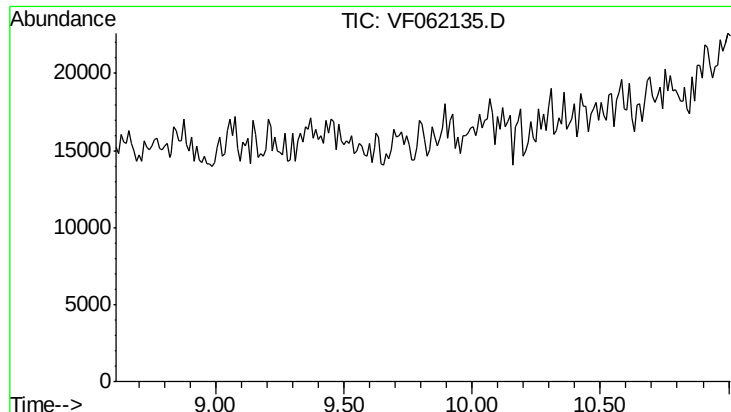
Tot Ion: 98
Sig Exp Ratio
98 100
100 71.3



#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
RT: 11.39 min Scan# 1091
Delta R.T. -0.04 min
Lab File: VF062135.D
Acq: 25 Mar 2019 16:52

Tgt Ion: 95 Resp: 678
Ion Ratio Lower Upper
95 100
174 0.0 0.0 168.2
176 0.0 0.0 164.2



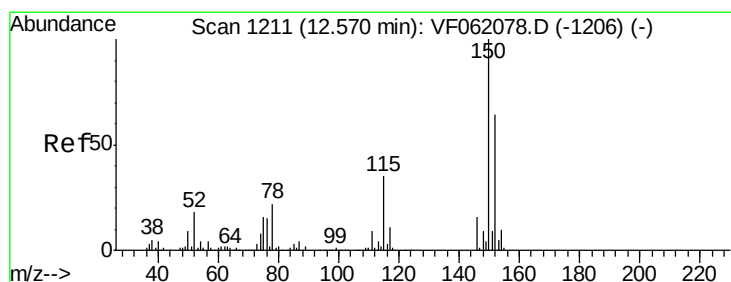
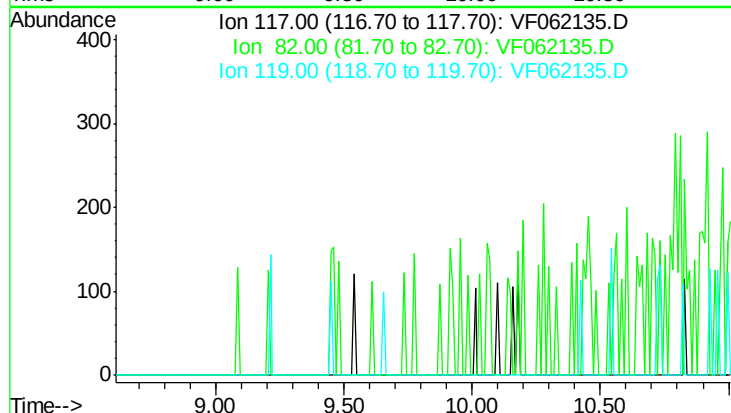


#63
 Chlorobenzene-d5
 Concen: 0.000 ug/l
 Expected RT: 9.81 min
 Lab File: VF062135.D
 Acq: 25 Mar 2019 16:52

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion: 117

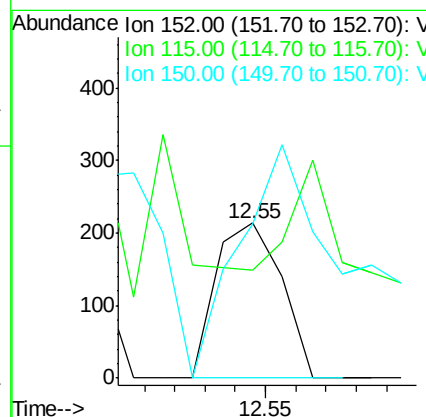
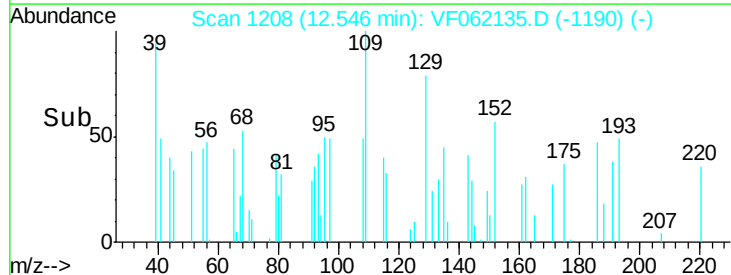
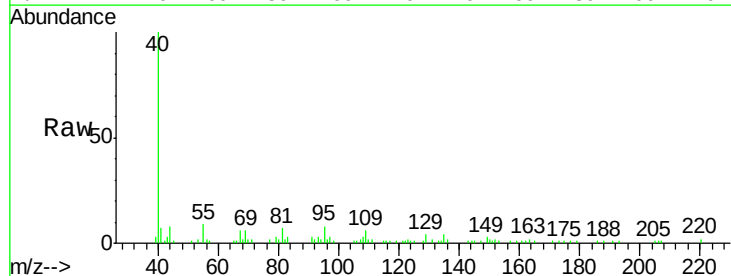
Sig	Exp Ratio
117	100
82	49.0
119	31.8

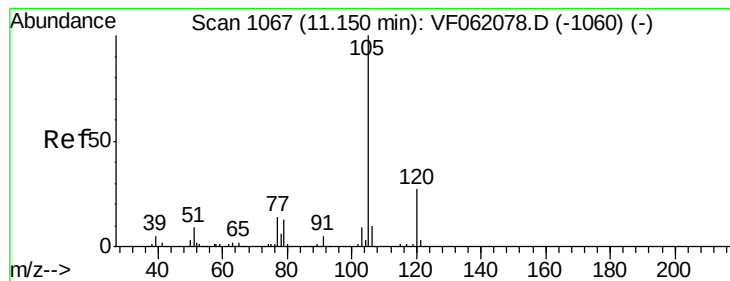


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.55 min Scan# 1208
 Delta R.T. -0.02 min
 Lab File: VF062135.D
 Acq: 25 Mar 2019 16:52

Tgt Ion: 152 Resp: 321

Ion	Ratio	Lower	Upper
152	100		
115	69.6	27.7	83.1
150	99.1	0.0	313.2





#73

Isopropylbenzene

Concen: 12.839 ug/l

RT: 11.16 min Scan# 1067

Delta R.T. 0.01 min

Lab File: VF062135.D

Acq: 25 Mar 2019 16:52

Instrument :

MSVOA_F

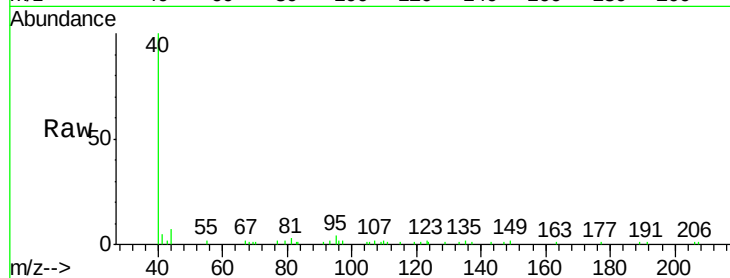
ClientSampled :

Tot Ion:105 Resp: 290

Ion Ratio Lower Upper

105 100

120 0.0 13.8 41.3#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.16

250

200

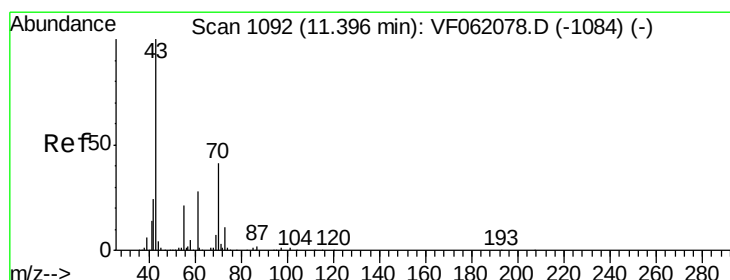
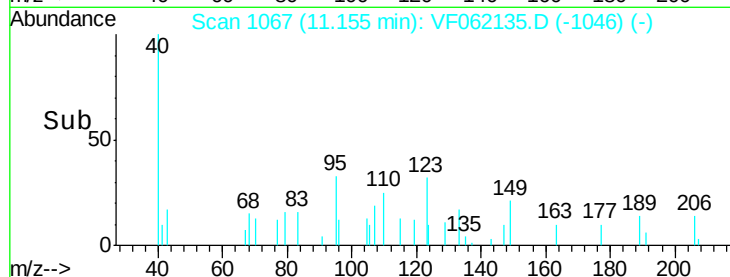
150

100

50

0

Time-->



#74

N-ethyl acetate

Concen: 167.035 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. -0.01 min

Lab File: VF062135.D

Acq: 25 Mar 2019 16:52

Tgt Ion: 43 Resp: 899

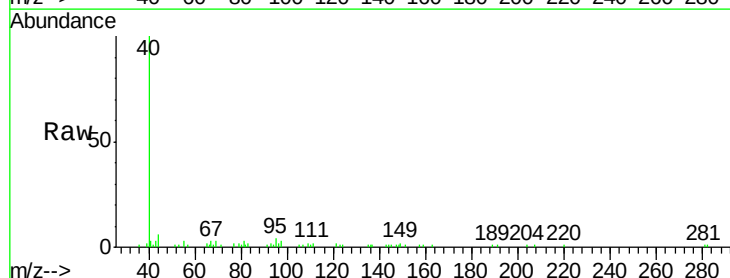
Ion Ratio Lower Upper

43 100

70 0.0 32.9 49.3#

55 126.0 17.1 25.7#

61 0.0 22.2 33.2#



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

1200

1000

800

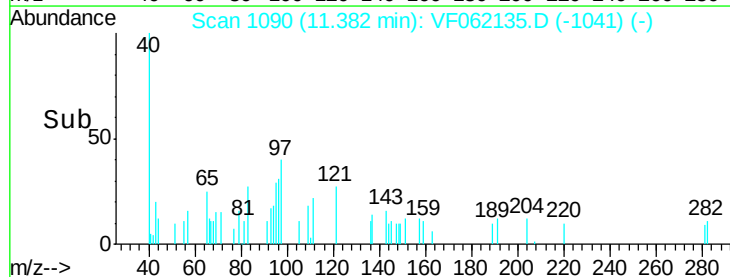
600

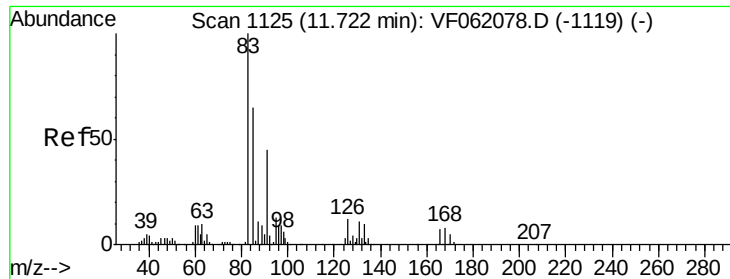
400

200

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 141.813 ug/l

RT: 11.73 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VF062135.D

Acq: 25 Mar 2019 16:52

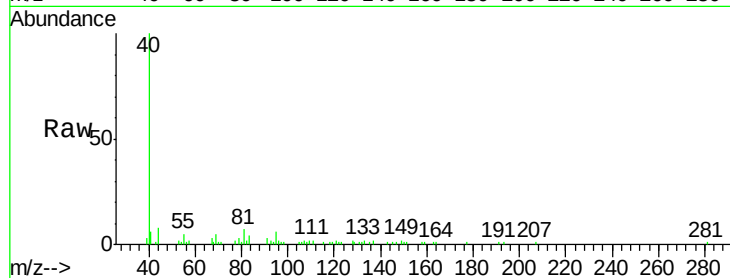
Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 83 Resp: 550

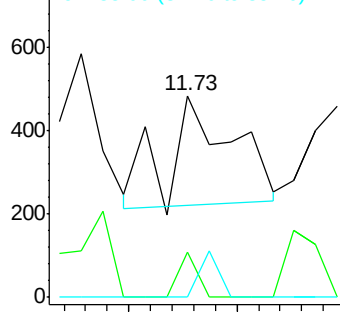
Ion	Ratio	Lower	Upper
83	100		
131	22.5	5.3	15.8#
85	0.0	32.6	98.0#



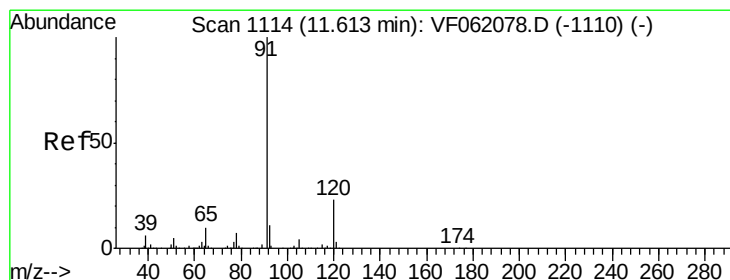
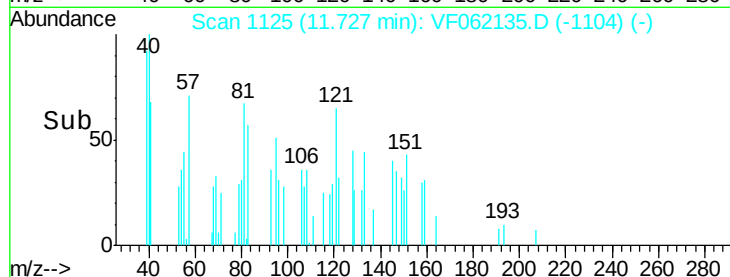
Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0



Time-->



#78

n-propylbenzene

Concen: 18.949 ug/l

RT: 11.59 min Scan# 1111

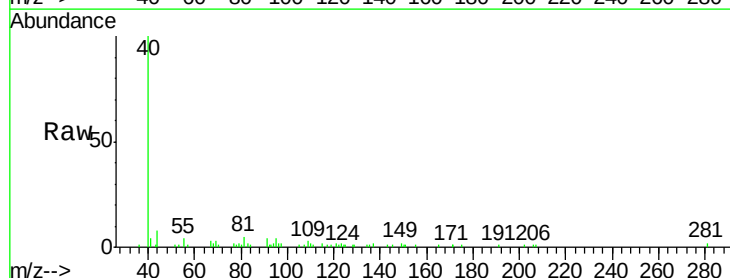
Delta R.T. -0.02 min

Lab File: VF062135.D

Acq: 25 Mar 2019 16:52

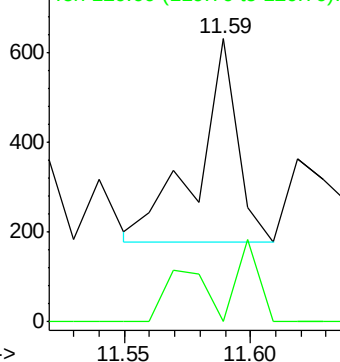
Tgt Ion: 91 Resp: 497

Ion	Ratio	Lower	Upper
91	100		
120	0.0	11.3	33.8#

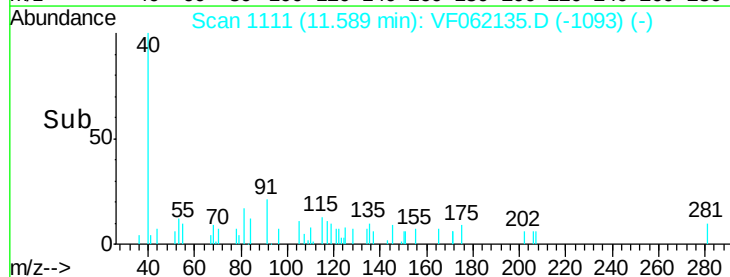


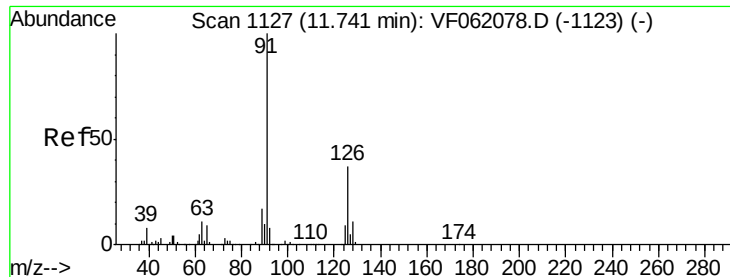
Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V



Time-->





#79

2-Chlorotoluene

Concen: 18.040 ug/l

RT: 11.73 min Scan# 1125

Delta R.T. -0.01 min

Lab File: VF062135.D

Acq: 25 Mar 2019 16:52

Instrument :

MSVOA_F

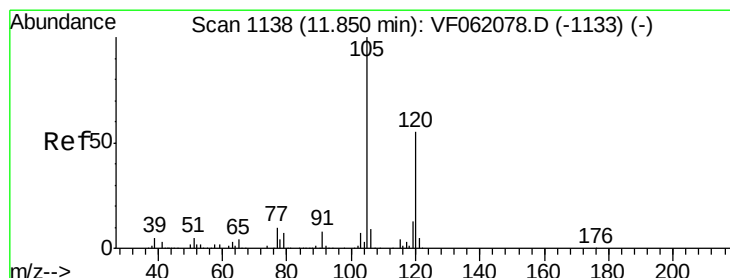
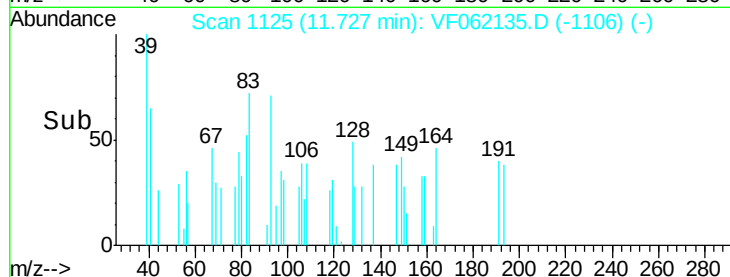
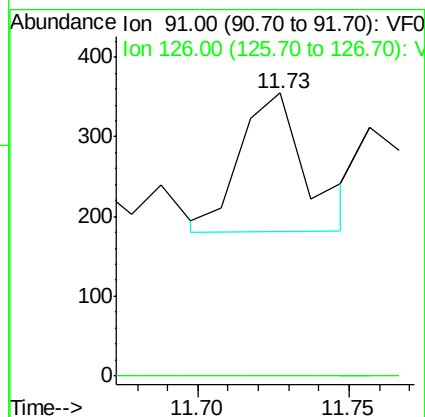
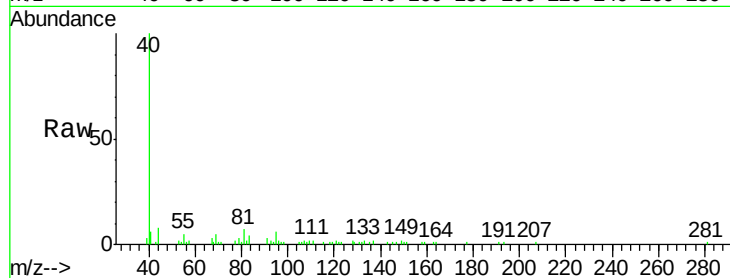
ClientSampled :

Tot Ion: 91 Resp: 263

Ion Ratio Lower Upper

91 100

126 0.0 18.3 54.8#



#80

1,3,5-Trimethylbenzene

Concen: 13.348 ug/l

RT: 11.87 min Scan# 1139

Delta R.T. 0.02 min

Lab File: VF062135.D

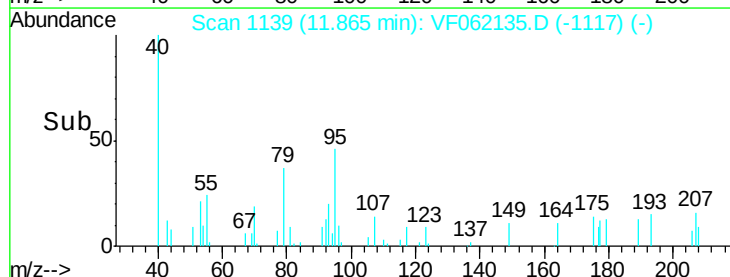
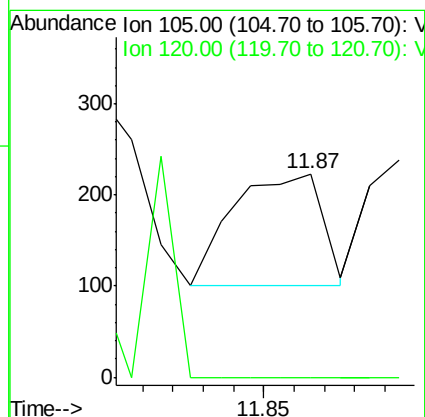
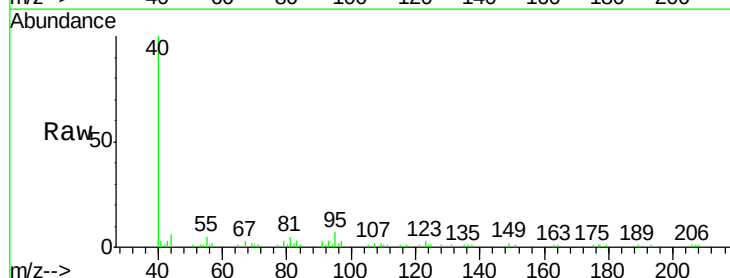
Acq: 25 Mar 2019 16:52

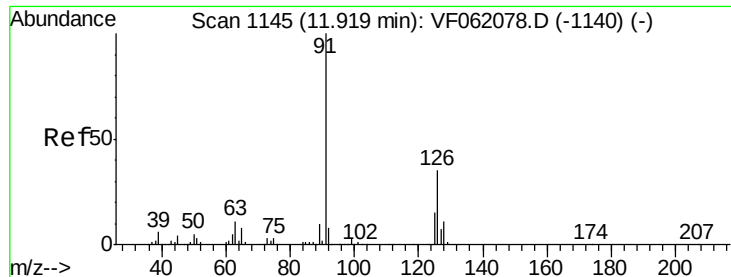
Tgt Ion: 105 Resp: 248

Ion Ratio Lower Upper

105 100

120 0.0 27.8 83.3#

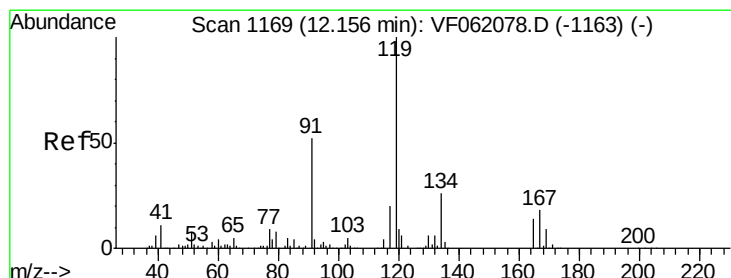
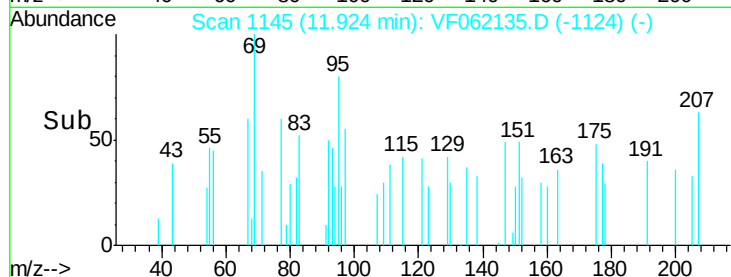
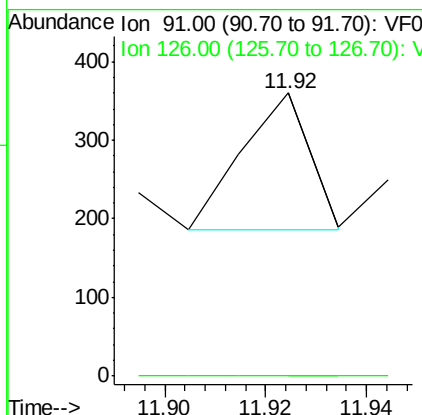
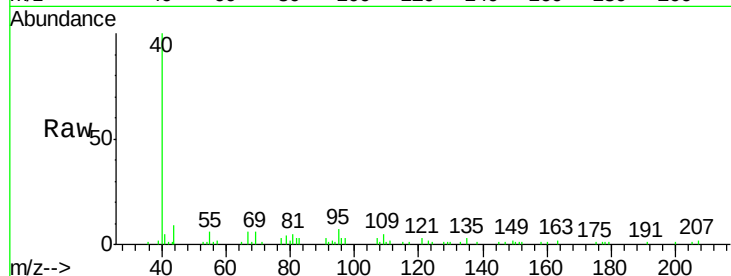




#82
4-Chlorotoluene
Concen: 10.838 ug/l
RT: 11.92 min Scan# 1145
Delta R.T. 0.01 min
Lab File: VF062135.D
Acq: 25 Mar 2019 16:52

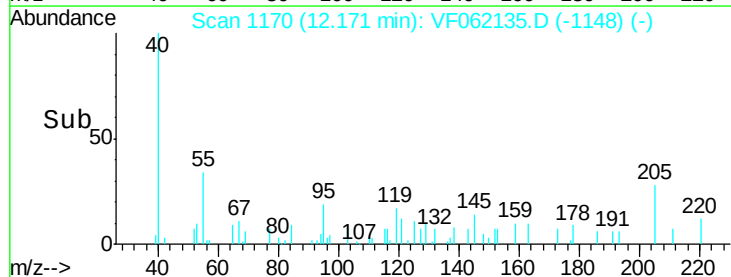
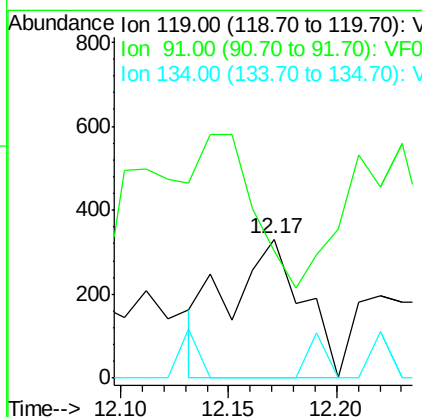
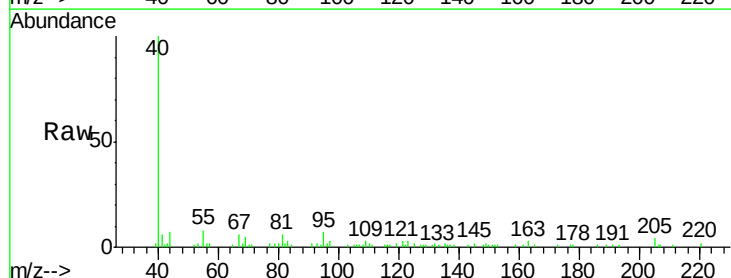
Instrument :
MSVOA_F
ClientSampleId :

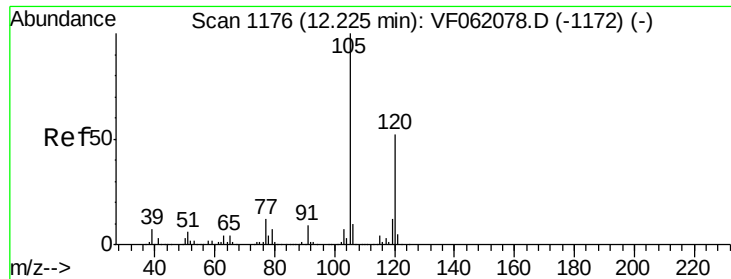
Tot Ion: 91 Resp: 162
Ion Ratio Lower Upper
91 100
126 0.0 17.2 51.6#



#83
tert-Butylbenzene
Concen: 40.876 ug/l
RT: 12.17 min Scan# 1170
Delta R.T. 0.02 min
Lab File: VF062135.D
Acq: 25 Mar 2019 16:52

Tgt Ion: 119 Resp: 795
Ion Ratio Lower Upper
119 100
91 91.2 26.1 78.2#
134 0.0 12.8 38.4#

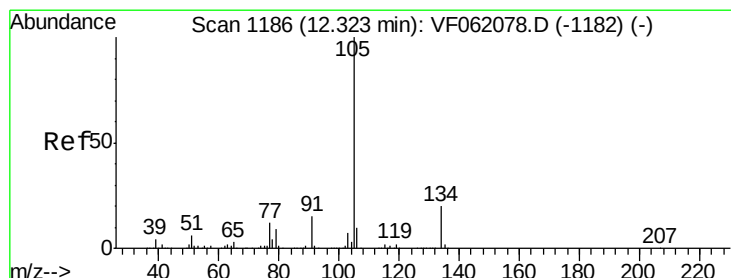
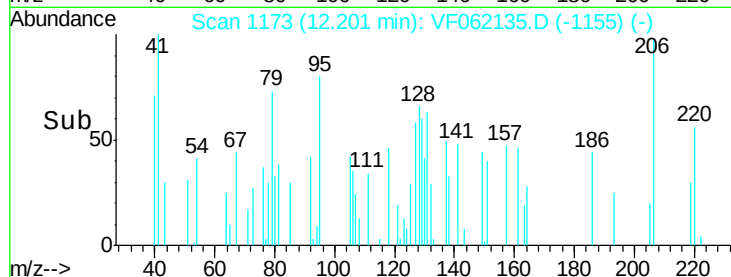
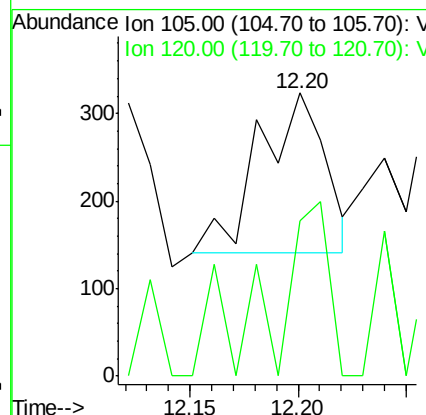
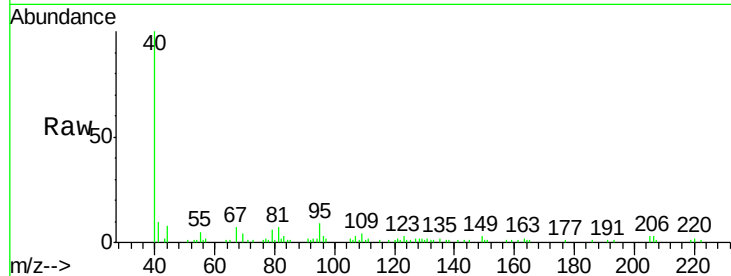




#84
 1,2,4-Trimethylbenzene
 Concen: 21.193 ug/l
 RT: 12.20 min Scan# 1173
 Delta R.T. -0.02 min
 Lab File: VF062135.D
 Acq: 25 Mar 2019 16:52

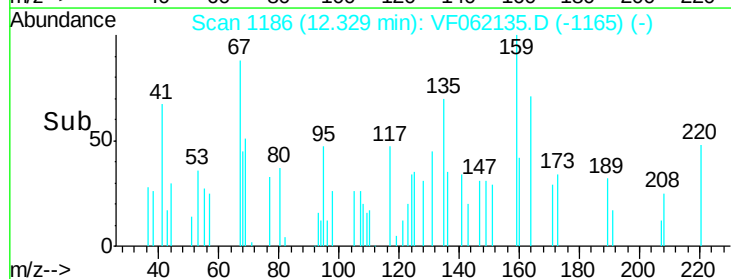
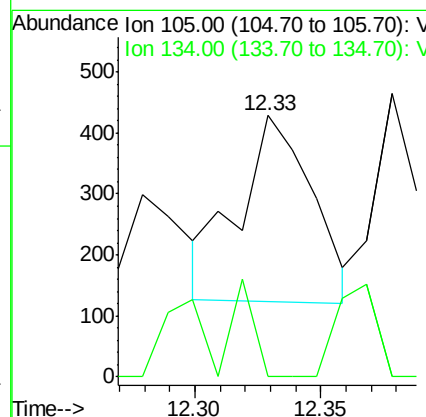
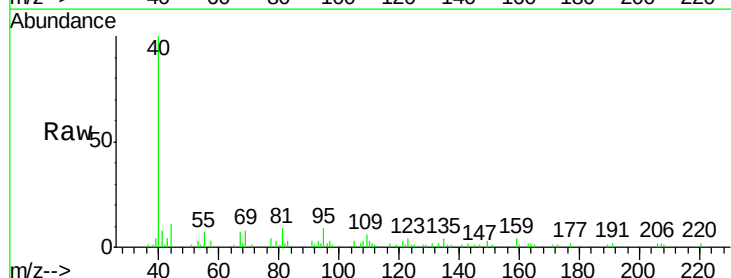
Instrument :
 MSVOA_F
 ClientSampleId :

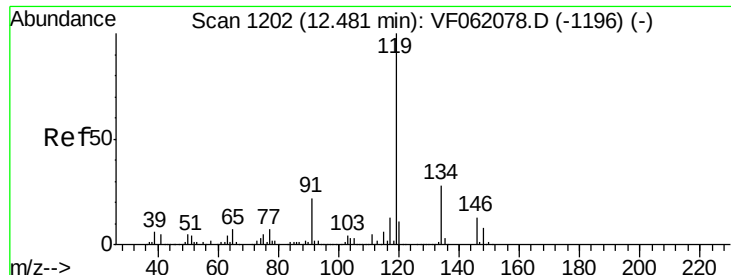
Tot Ion:105 Resp: 386
 Ion Ratio Lower Upper
 105 100
 120 54.8 26.1 78.2



#85
 sec-Butylbenzene
 Concen: 24.602 ug/l
 RT: 12.33 min Scan# 1186
 Delta R.T. 0.01 min
 Lab File: VF062135.D
 Acq: 25 Mar 2019 16:52

Tgt Ion:105 Resp: 619
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.2 30.4#

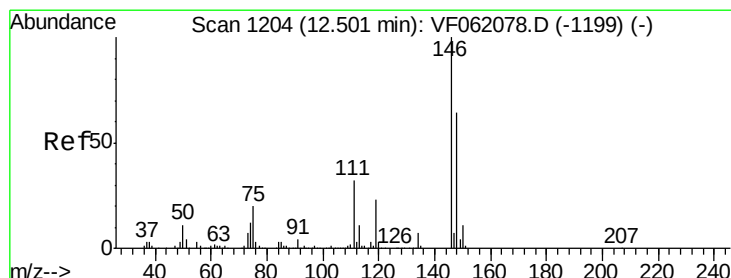
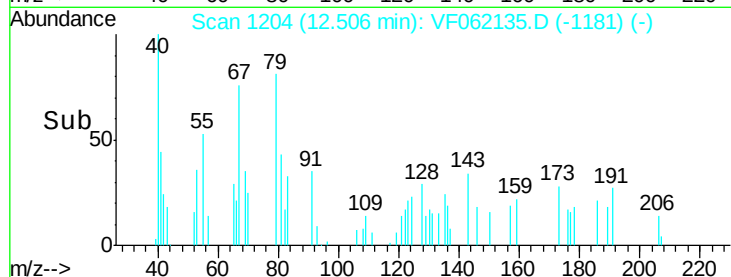
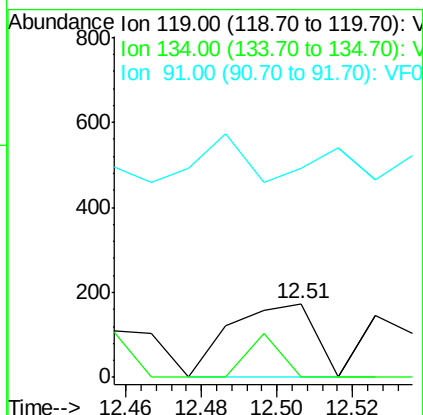
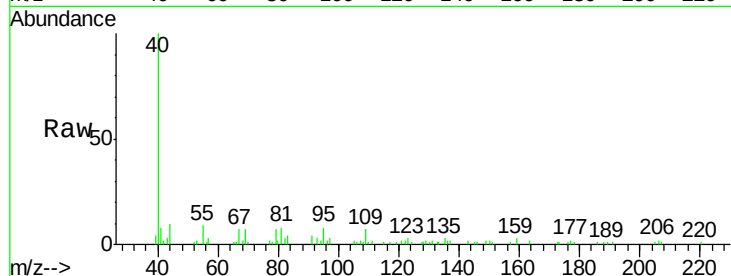




#86
p-Isopropyltoluene
Concen: 12.294 ug/l
RT: 12.51 min Scan# 1204
Delta R.T. 0.03 min
Lab File: VF062135.D
Acq: 25 Mar 2019 16:52

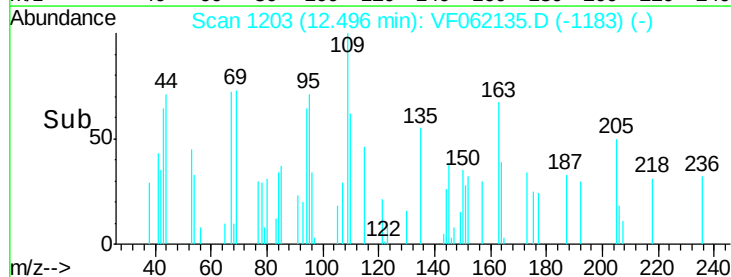
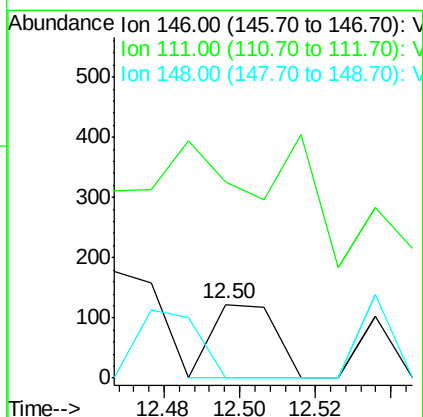
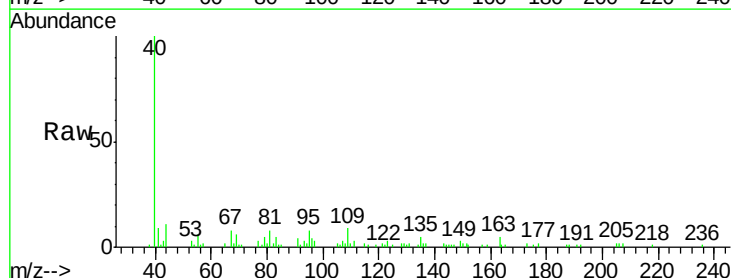
Instrument :
MSVOA_F
ClientSampleId :

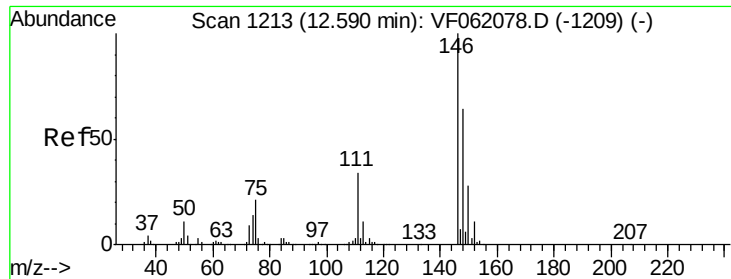
Tot Ion:119 Resp: 268
Ion Ratio Lower Upper
119 100
134 0.0 14.0 42.0#
91 285.0 10.8 32.4#



#87
1,3-Dichlorobenzene
Concen: 13.948 ug/l
RT: 12.50 min Scan# 1203
Delta R.T. -0.00 min
Lab File: VF062135.D
Acq: 25 Mar 2019 16:52

Tgt Ion:146 Resp: 143
Ion Ratio Lower Upper
146 100
111 264.2 16.1 48.3#
148 0.0 31.9 95.7#

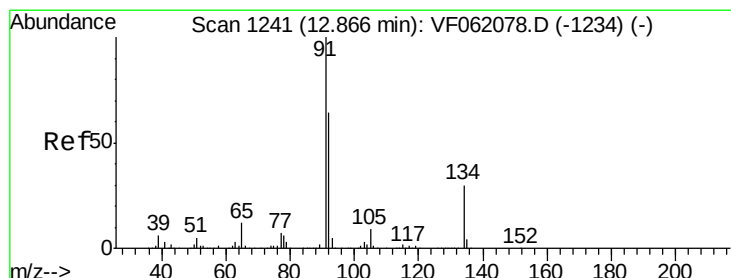
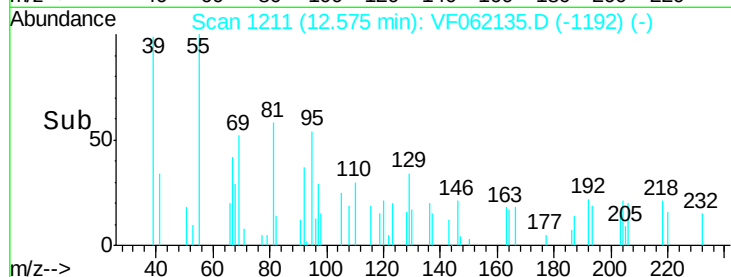
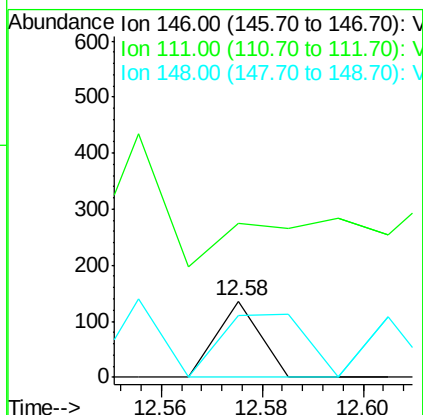
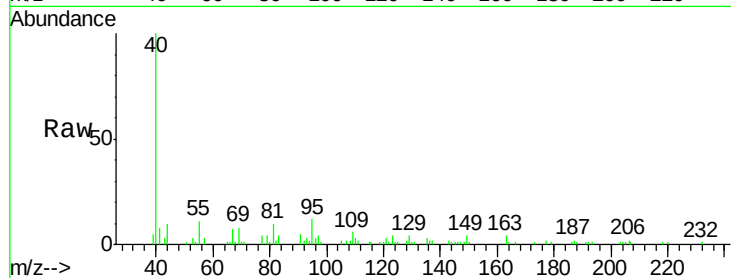




#88
 1,4-Dichlorobenzene
 Concen: 7.996 ug/l
 RT: 12.58 min Scan# 1211
 Delta R.T. -0.01 min
 Lab File: VF062135.D
 Acq: 25 Mar 2019 16:52

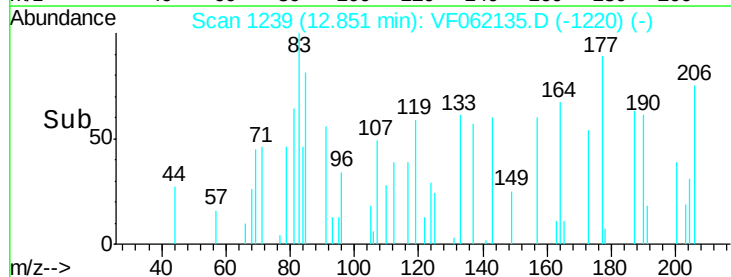
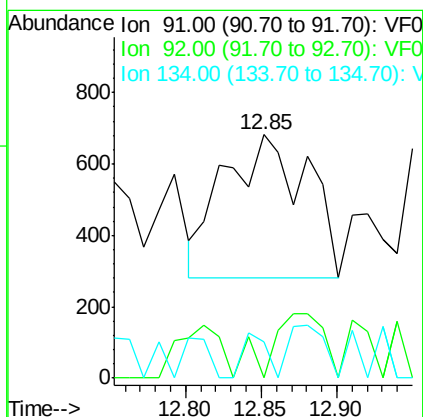
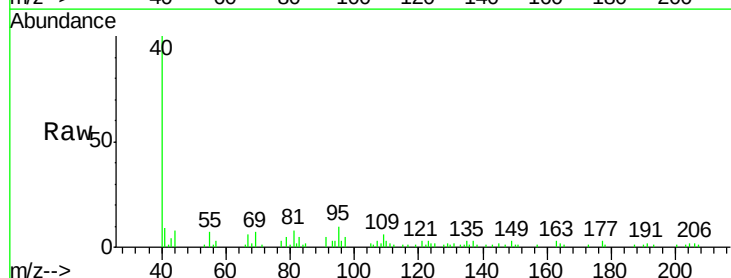
Instrument :
 MSVOA_F
 ClientSampled :

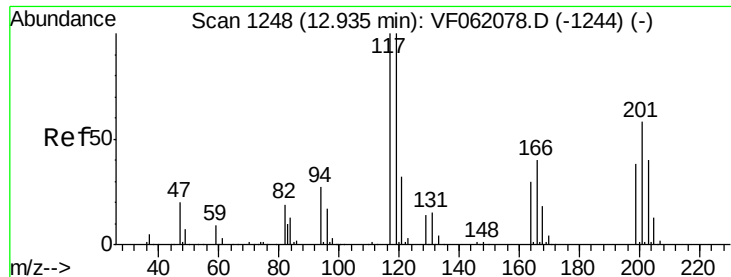
Tot Ion	Ratio	Lower	Upper
146	100		
111	201.5	16.9	50.6#
148	80.9	31.9	95.7



#89
 n-Butylbenzene
 Concen: 73.520 ug/l
 RT: 12.85 min Scan# 1239
 Delta R.T. -0.01 min
 Lab File: VF062135.D
 Acq: 25 Mar 2019 16:52

Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	31.9	95.5#
134	15.0	14.9	44.9





#90

Hexachloroethane

Concen: 18.688 ug/l

RT: 12.95 min Scan# 1249

Delta R.T. 0.02 min

Lab File: VF062135.D

Acq: 25 Mar 2019 16:52

Instrument :

MSVOA_F

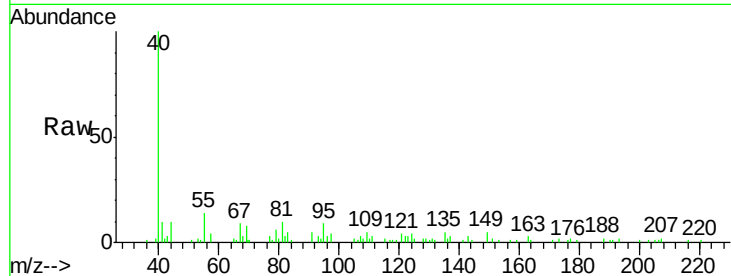
ClientSampled :

Tot Ion:117 Resp: 97

Ion Ratio Lower Upper

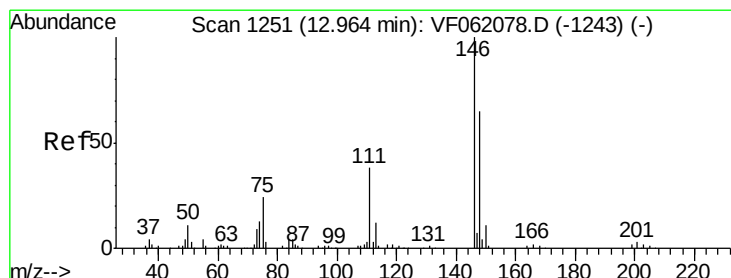
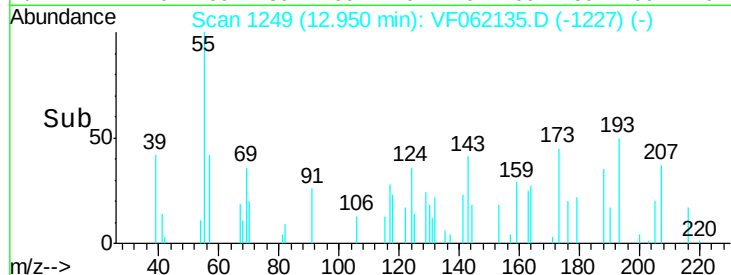
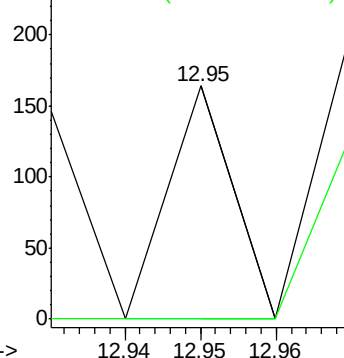
117 100

201 0.0 28.7 86.1#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V



#91

1,2-Dichlorobenzene

Concen: 6.232 ug/l

RT: 12.94 min Scan# 1248

Delta R.T. -0.02 min

Lab File: VF062135.D

Acq: 25 Mar 2019 16:52

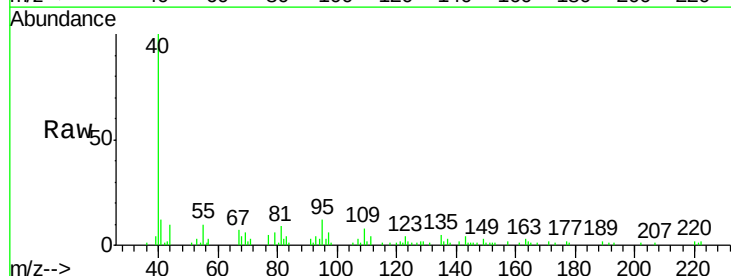
Tgt Ion:146 Resp: 60

Ion Ratio Lower Upper

146 100

111 461.8 19.1 57.3#

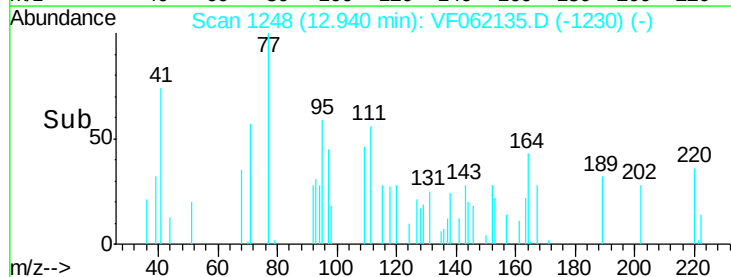
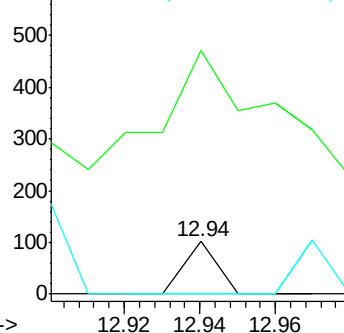
148 0.0 32.8 98.3#

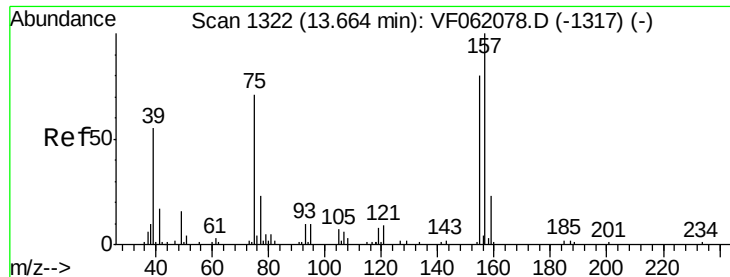


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 144.646 ug/l

RT: 13.82 min Scan# 1337

Delta R.T. 0.15 min

Lab File: VF062135.D

Acq: 25 Mar 2019 16:52

Instrument :

MSVOA_F

ClientSampleId :

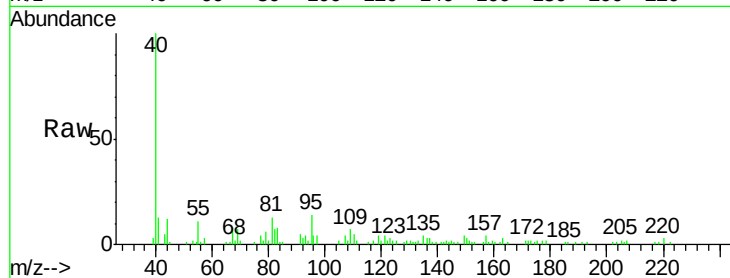
Tot Ion: 75 Resp: 85

Ion Ratio Lower Upper

75 100

155 0.0 56.1 168.4#

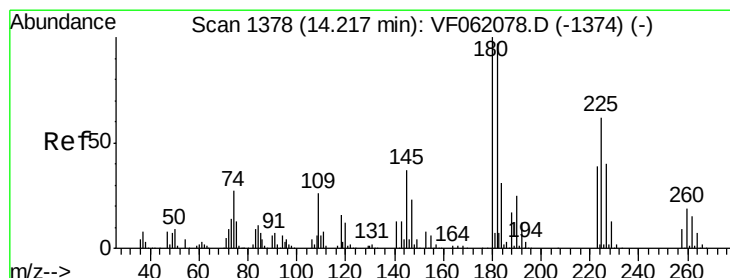
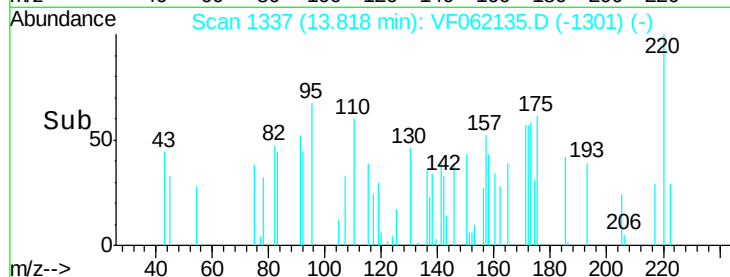
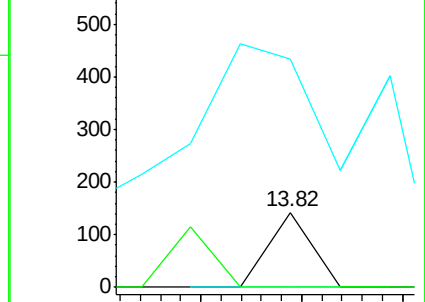
157 302.8 70.4 211.2#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V



#93

1,2,4-Trichlorobenzene

Concen: 10.731 ug/l

RT: 14.09 min Scan# 1365

Delta R.T. -0.12 min

Lab File: VF062135.D

Acq: 25 Mar 2019 16:52

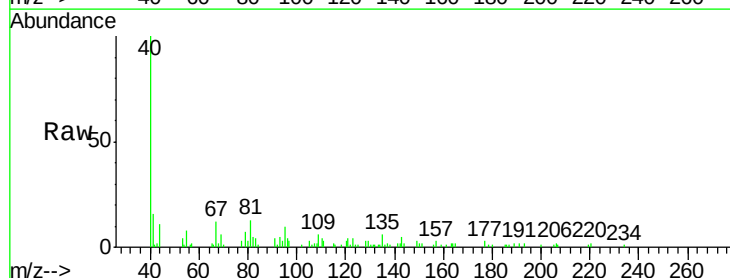
Tgt Ion: 180 Resp: 72

Ion Ratio Lower Upper

180 100

182 0.0 48.7 146.1#

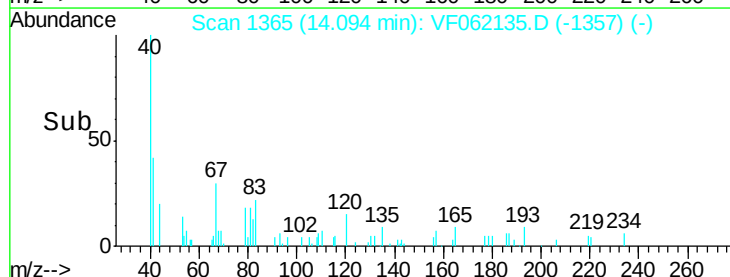
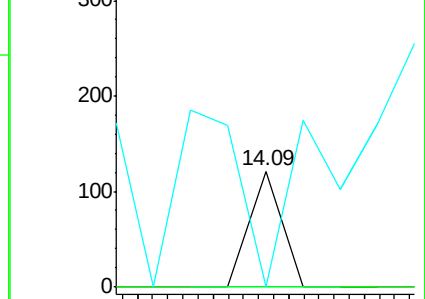
145 0.0 18.3 54.8#

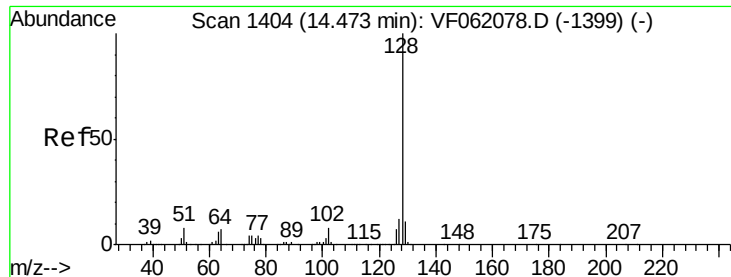


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#95

Naphthalene

Concen: 31.212 ug/l

RT: 14.51 min Scan# 1407

Delta R.T. 0.04 min

Lab File: VF062135.D

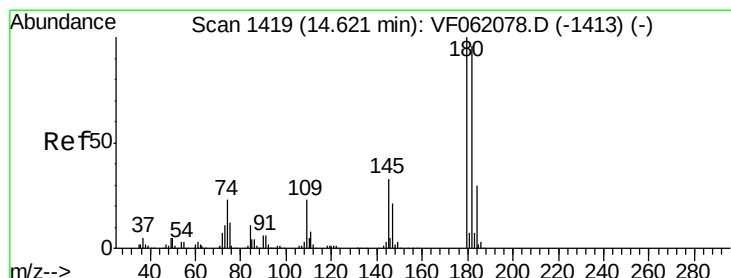
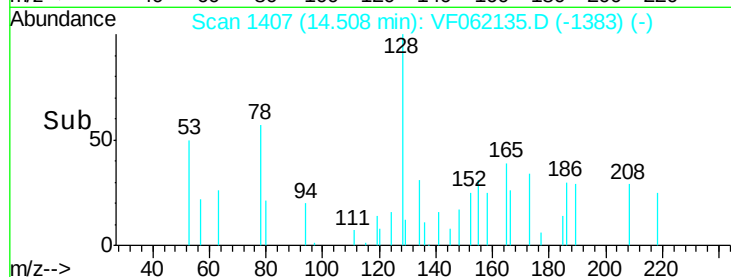
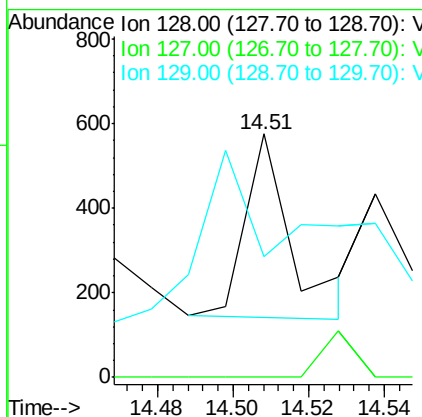
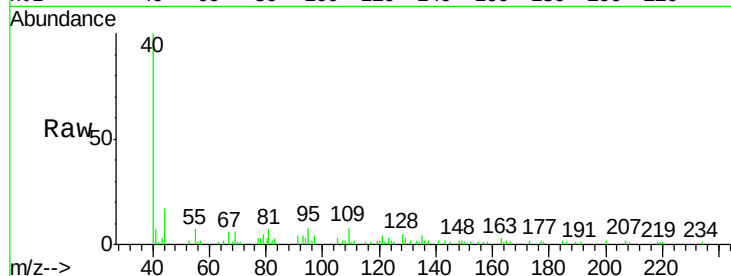
Acq: 25 Mar 2019 16:52

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion:128	Resp:	367	
Ion Ratio	Lower	Upper	
128	100		
127	0.0	9.5	14.3#
129	49.7	8.7	13.1#



#96

1,2,3-Trichlorobenzene

Concen: 9.872 ug/l

RT: 14.61 min Scan# 1417

Delta R.T. -0.01 min

Lab File: VF062135.D

Acq: 25 Mar 2019 16:52

Tgt	Ion:180	Resp:	62
Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.9	143.7#
145	182.9	16.6	49.7#

