

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF061219\
 Data File : VF062935.D
 Acq On : 12 Jun 2019 18:44
 Operator : FY/SY
 Sample : K3343-02
 Misc : 4.76g/5mL/MSVOA F/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jun 13 08:32:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F053019S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 31 04:18:30 2019
 Response via : Initial Calibration

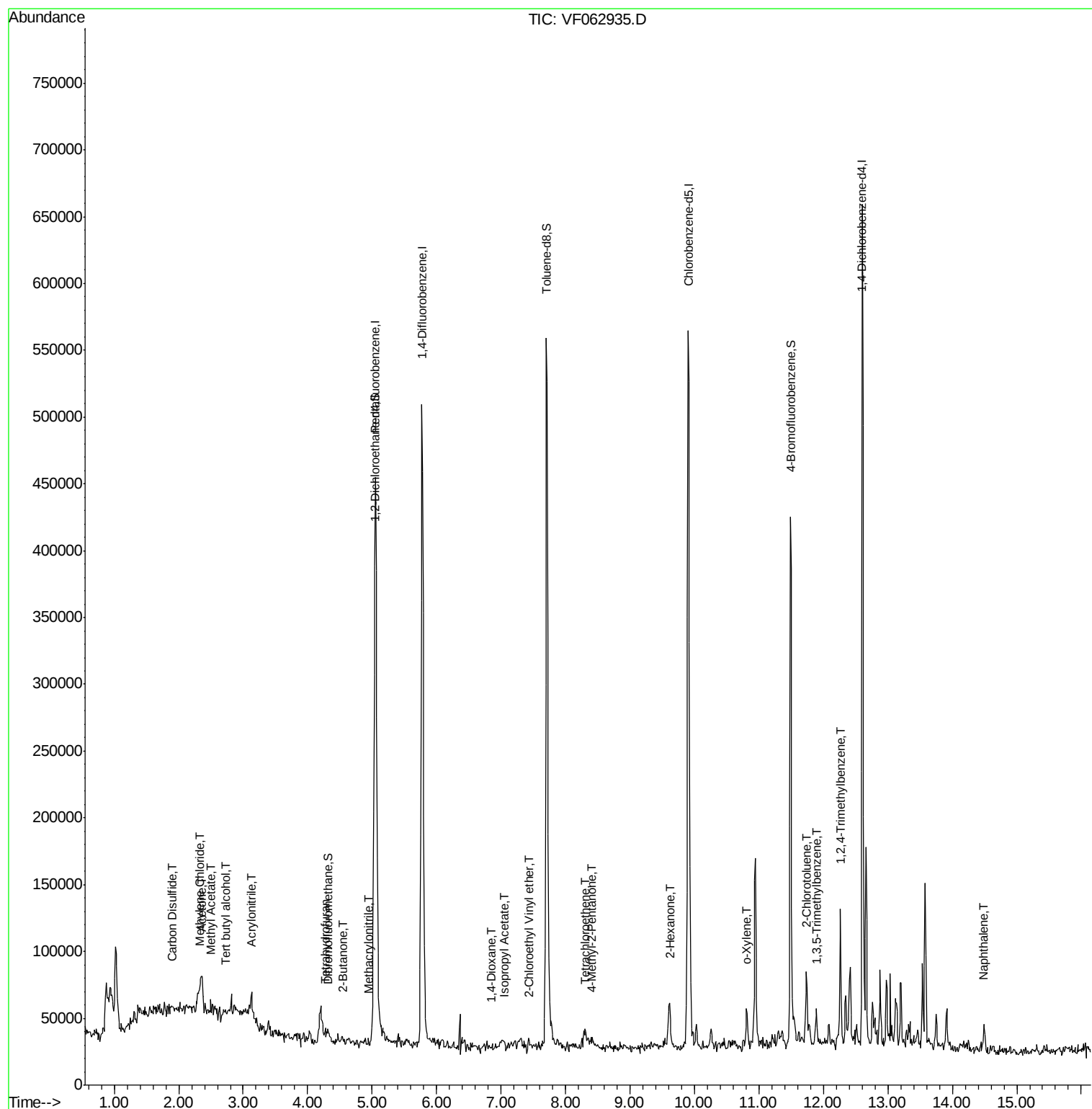
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.06	168	345279	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.77	114	573596	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.91	117	431180	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.60	152	145296	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.03	65	123362	51.67	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	103.34%	
35) Dibromofluoromethane	4.31	113	7321	1.69	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	3.38%	
50) Toluene-d8	7.70	98	429137	39.15	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	78.30%	
62) 4-Bromofluorobenzene	11.49	95	142960	36.26	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	72.52%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.07	85	528	Below Cal		77
11) Tert butyl alcohol	2.72	59	1172	8.103 ug/l #		1
13) Acrolein	1.95	56	342	Below Cal		85
15) Acrylonitrile	3.12	53	649	1.194 ug/l #		10
16) Acetone	2.35	43	36471	66.739 ug/l		97
17) Carbon Disulfide	1.91	76	13380	1.595 ug/l #		80
18) Methyl Acetate	2.50	43	1977	2.070 ug/l #		64
20) Methylene Chloride	2.31	84	13286	1.988 ug/l #		88
25) 2-Butanone	4.54	43	6806	5.348 ug/l		90
29) Tetrahydrofuran	4.26	42	920	1.890 ug/l #		62
41) Methacrylonitrile	4.94	41	1170	1.043 ug/l #		63
43) Isopropyl Acetate	7.05	43	4861	1.823 ug/l #		38
49) 1,4-Dioxane	6.84	88	139	7.674 ug/l #		1
51) 4-Methyl-2-Pentanone	8.41	43	7139	3.750 ug/l		98
58) 2-Chloroethyl Vinyl ether	7.45	63	1488	1.605 ug/l #		51
59) 2-Hexanone	9.62	43	11563	8.522 ug/l		71
64) Tetrachloroethene	8.31	164	3881	1.171 ug/l #		71
69) o-Xylene	10.81	106	6685	1.208 ug/l		80
79) 2-Chlorotoluene	11.74	91	10465	1.494 ug/l #		44
80) 1,3,5-Trimethylbenzene	11.89	105	13162	1.588 ug/l		99
84) 1,2,4-Trimethylbenzene	12.27	105	53055	6.749 ug/l		85
95) Naphthalene	14.50	128	14459	3.255 ug/l #		95

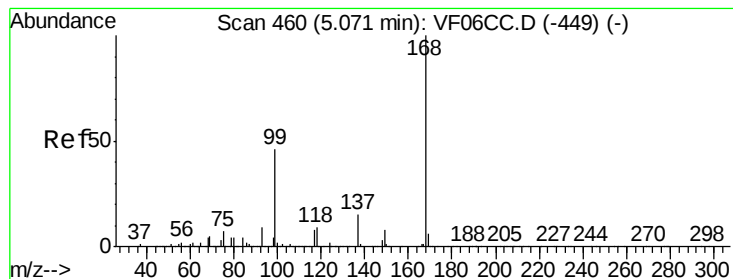
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri May 31 04:18:30 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 459

Delta R.T. -0.01 min

Lab File: VF062935.D

Acq: 12 Jun 2019 18:44

Instrument :

MSVOA_F

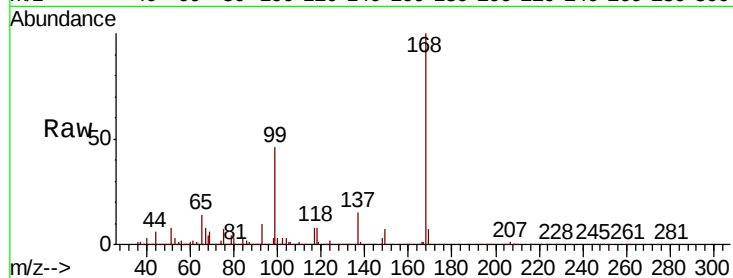
ClientSampleId :

Tot Ion:168 Resp: 345279

Ion Ratio Lower Upper

168 100

99 46.2 39.1 58.7



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

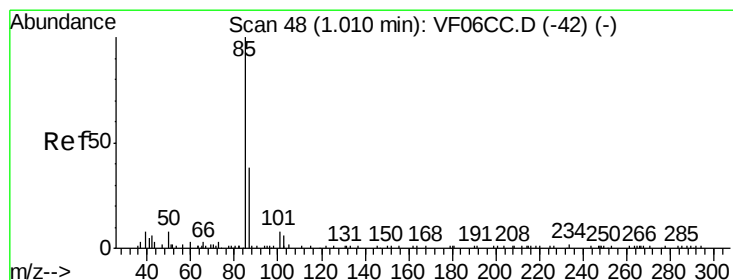
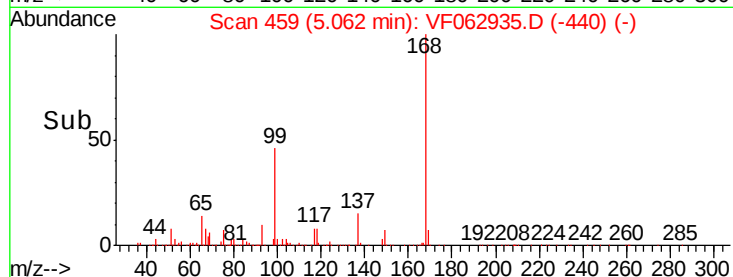
5.06

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.07 min Scan# 54

Delta R.T. 0.06 min

Lab File: VF062935.D

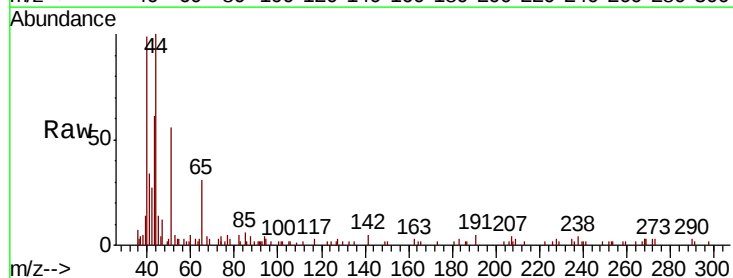
Acq: 12 Jun 2019 18:44

Tgt Ion: 85 Resp: 528

Ion Ratio Lower Upper

85 100

87 48.5 17.6 52.9



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

1.07

600

500

400

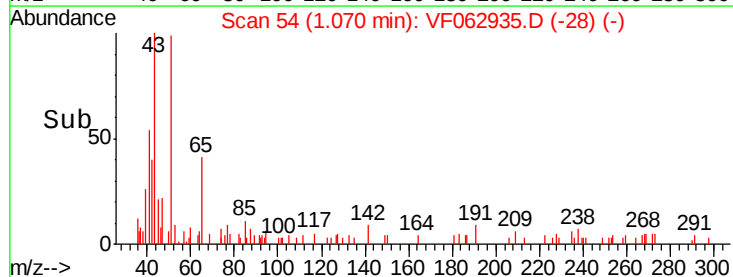
300

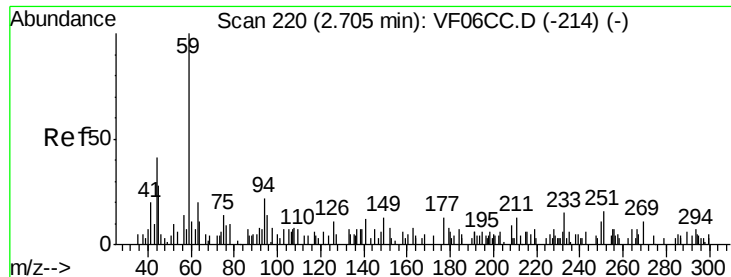
200

100

0

Time-->

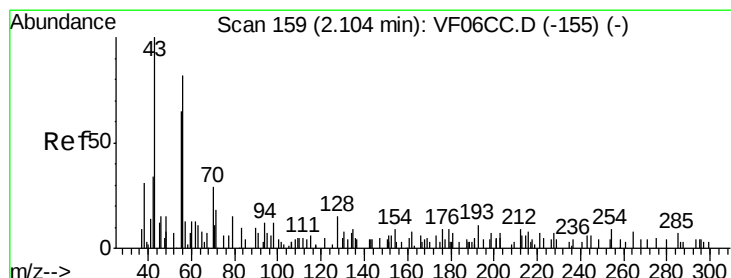
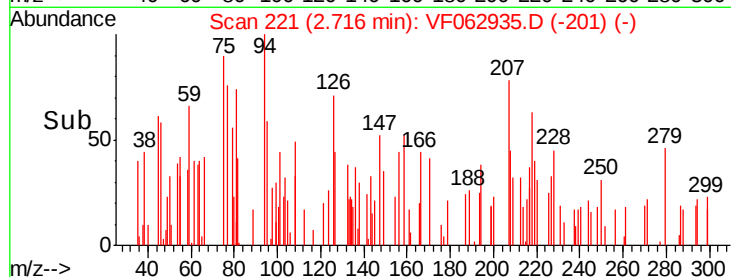
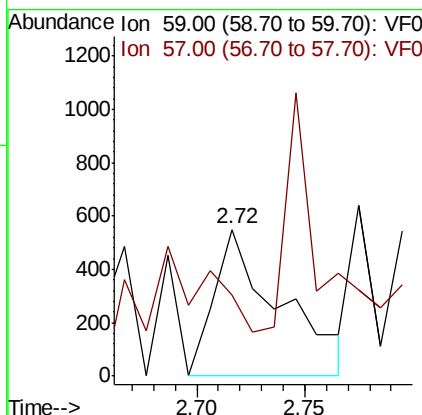
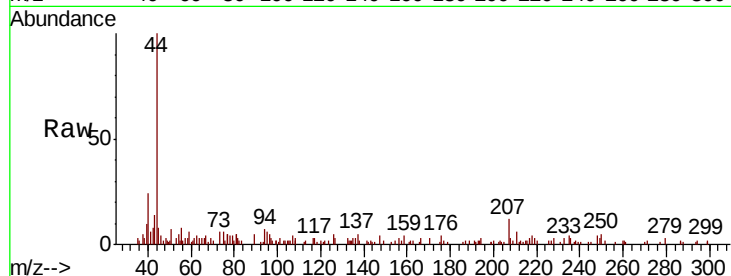




#11
Tert butvl alcohol
Concen: 8.103 ug/l
RT: 2.72 min Scan# 221
Delta R.T. -0.00 min
Lab File: VF062935.D
Acq: 12 Jun 2019 18:44

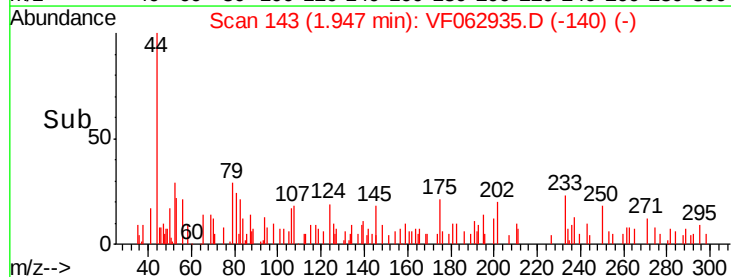
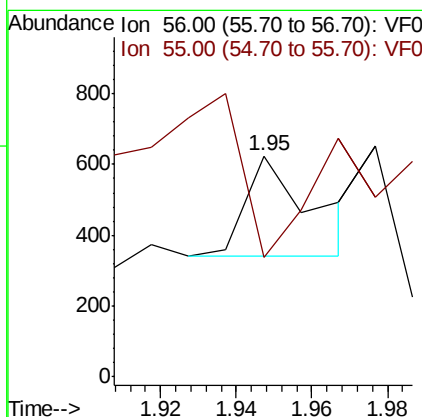
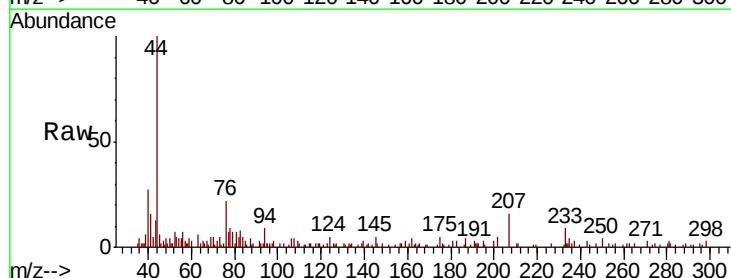
Instrument :
MSVOA_F
ClientSampled :

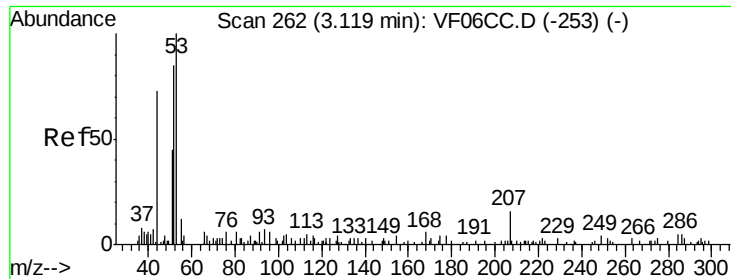
Tot Ion: 59 Resp: 1172
Ion Ratio Lower Upper
59 100
57 54.9 9.2 13.8#



#13
Acrolein
Concen: Below Cal
RT: 1.95 min Scan# 143
Delta R.T. -0.17 min
Lab File: VF062935.D
Acq: 12 Jun 2019 18:44

Tgt Ion: 56 Resp: 342
Ion Ratio Lower Upper
56 100
55 53.8 52.9 79.3





#15

Acrylonitrile

Concen: 1.194 ug/l

RT: 3.12 min Scan# 262

Delta R.T. 0.01 min

Lab File: VF062935.D

Acq: 12 Jun 2019 18:44

Instrument :
MSVOA_F
ClientSampled :

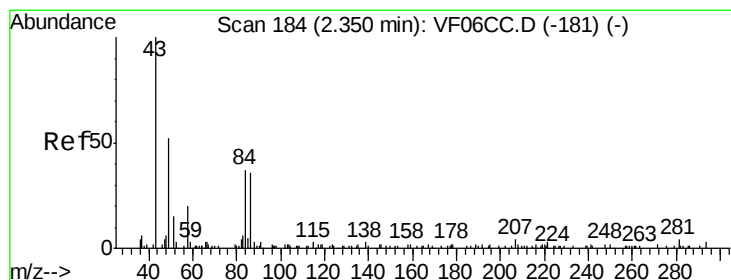
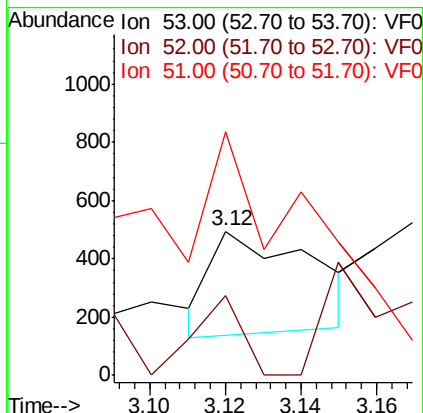
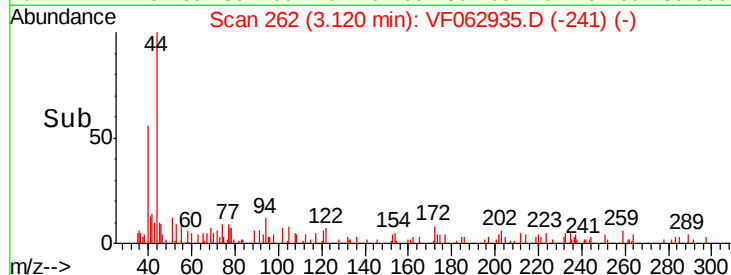
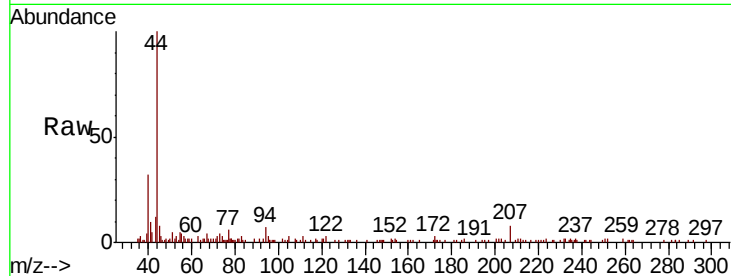
Tot Ion: 53 Resp: 649

Ion Ratio Lower Upper

53 100

52 55.8 68.1 102.1#

51 168.9 27.7 41.5#



#16

Acetone

Concen: 66.739 ug/l

RT: 2.35 min Scan# 184

Delta R.T. -0.01 min

Lab File: VF062935.D

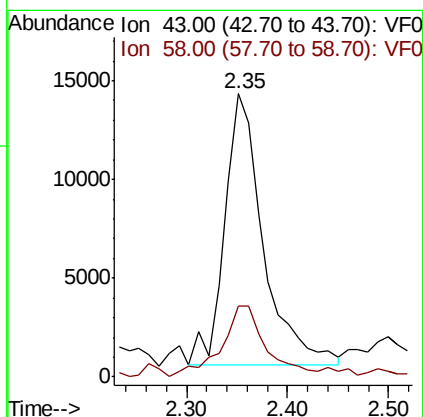
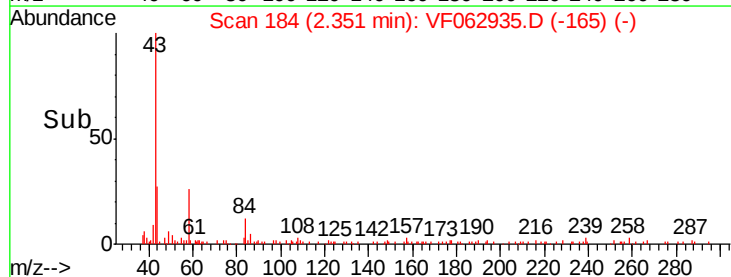
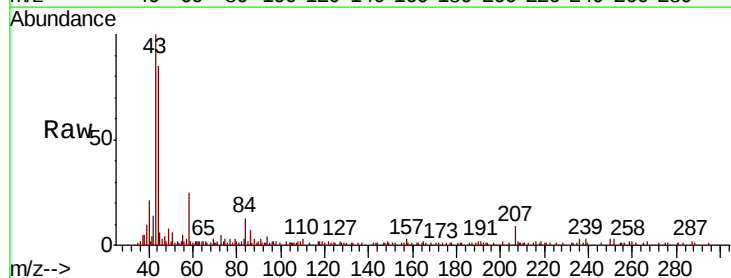
Acq: 12 Jun 2019 18:44

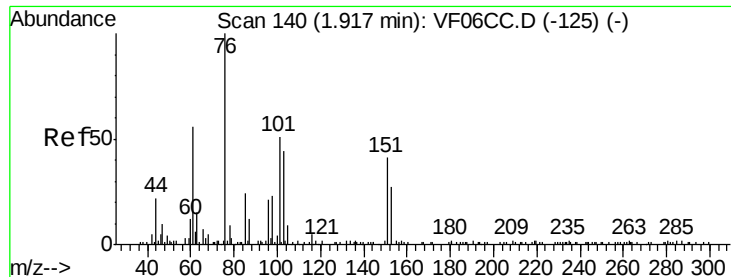
Tgt Ion: 43 Resp: 36471

Ion Ratio Lower Upper

43 100

58 25.0 19.0 28.4





#17

Carbon Disulfide

Concen: 1.595 ug/l

RT: 1.91 min Scan# 139

Delta R.T. -0.02 min

Lab File: VF062935.D

Acq: 12 Jun 2019 18:44

Instrument :

MSVOA_F

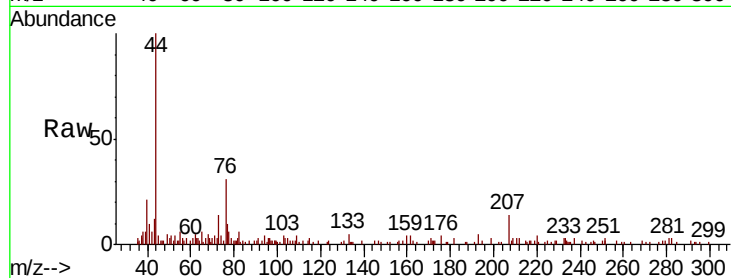
ClientSampleId :

Tot Ion: 76 Resp: 13380

Ion Ratio Lower Upper

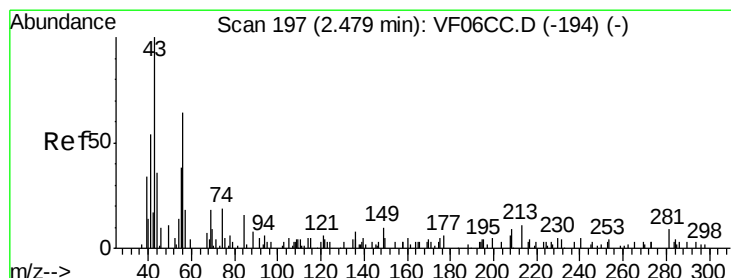
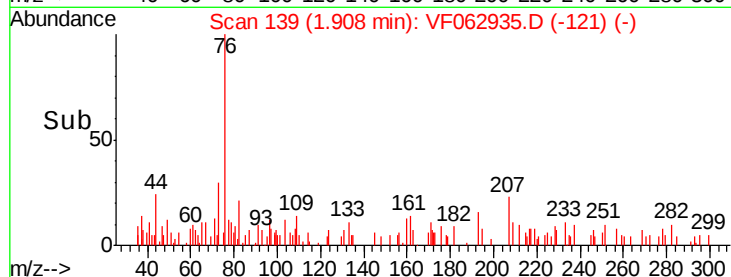
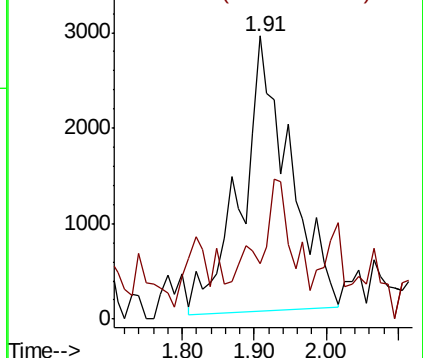
76 100

78 19.7 9.4 14.2#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#18

Methyl Acetate

Concen: 2.070 ug/l

RT: 2.50 min Scan# 199

Delta R.T. 0.02 min

Lab File: VF062935.D

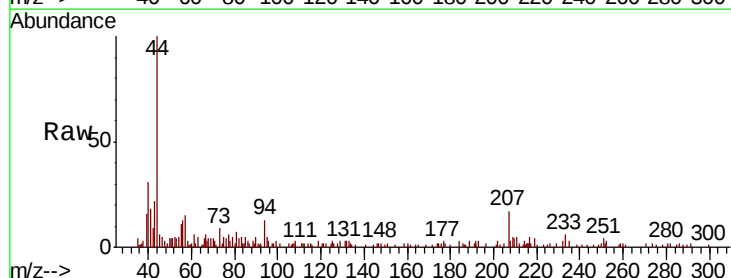
Acq: 12 Jun 2019 18:44

Tgt Ion: 43 Resp: 1977

Ion Ratio Lower Upper

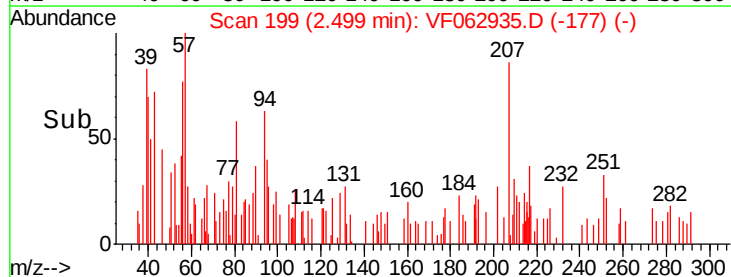
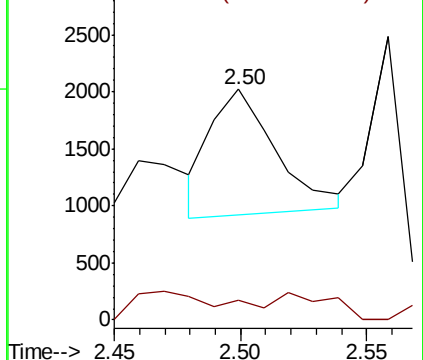
43 100

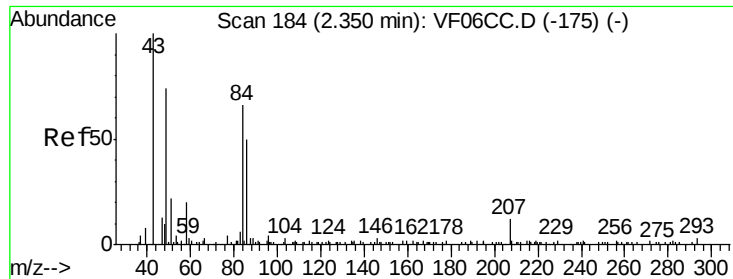
74 8.7 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

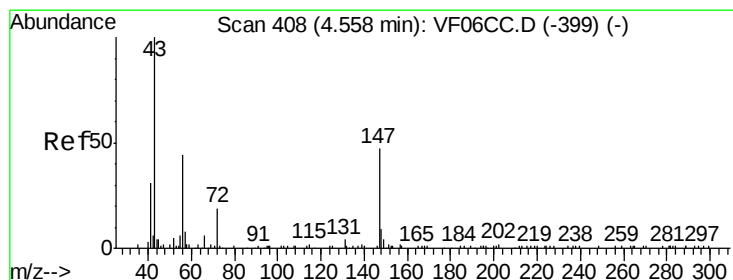
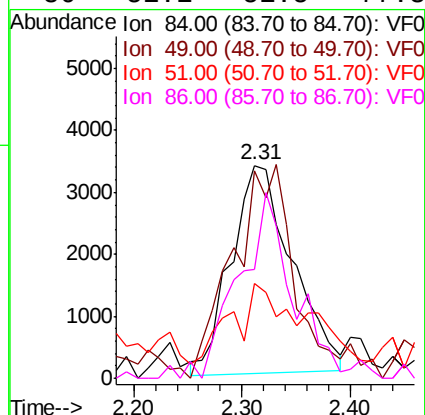
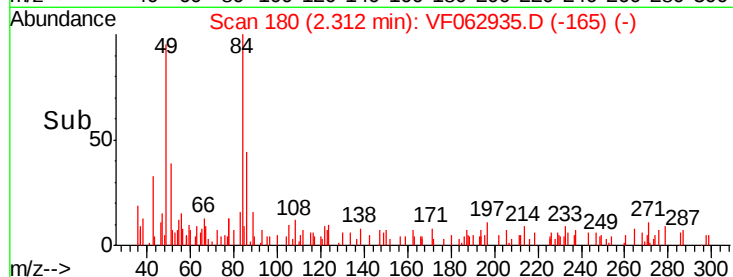
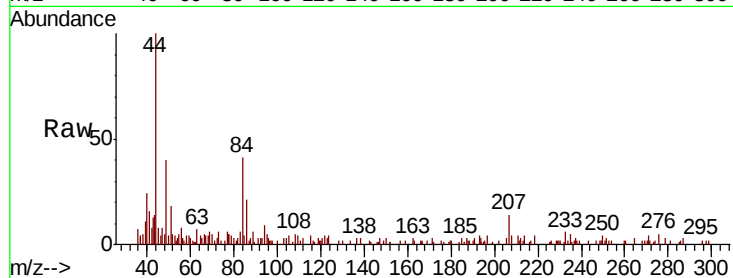




#20
Methvlene Chloride
Concen: 1.988 ug/l
RT: 2.31 min Scan# 180
Delta R.T. -0.05 min
Lab File: VF062935.D
Acq: 12 Jun 2019 18:44

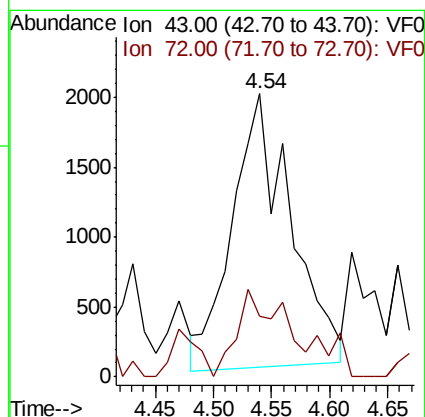
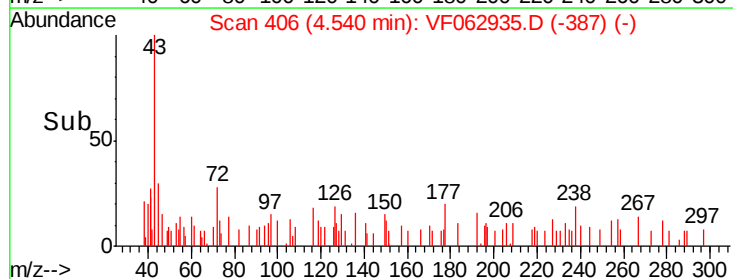
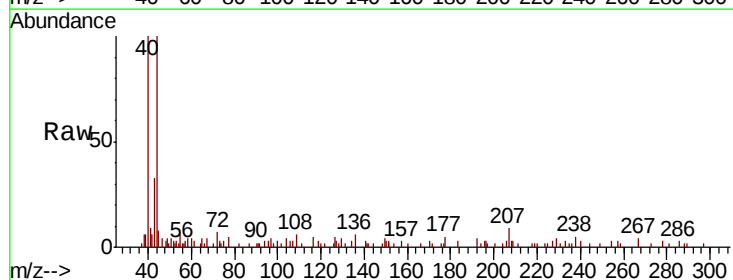
Instrument :
MSVOA_F
ClientSampled :

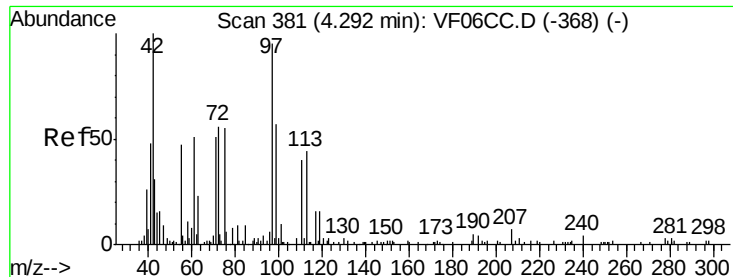
Tot Ion: 84 Resp: 13286
Ion Ratio Lower Upper
84 100
49 97.4 82.6 123.8
51 44.4 25.0 37.4#
86 51.1 51.5 77.3#



#25
2-Butanone
Concen: 5.348 ug/l
RT: 4.54 min Scan# 406
Delta R.T. -0.01 min
Lab File: VF062935.D
Acq: 12 Jun 2019 18:44

Tgt Ion: 43 Resp: 6806
Ion Ratio Lower Upper
43 100
72 21.6 21.4 32.0

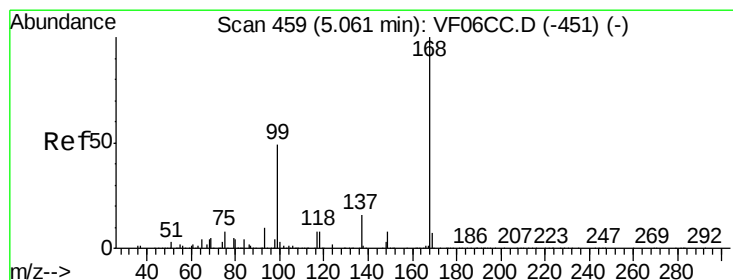
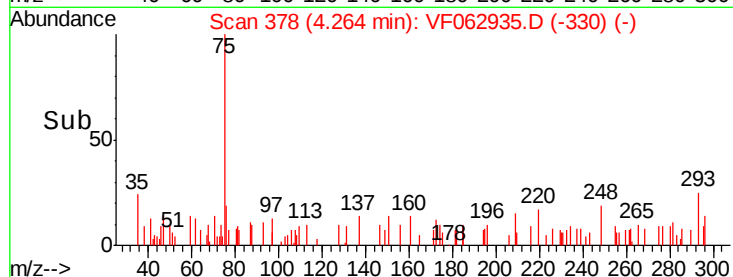
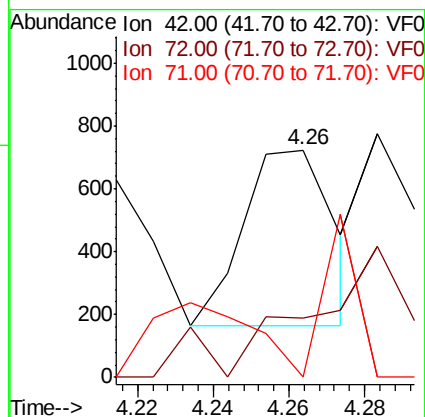
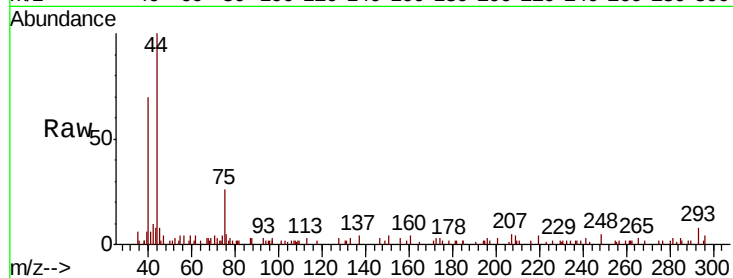




#29
Tetrahydrofuran
Concen: 1.890 ug/l
RT: 4.26 min Scan# 378
Delta R.T. -0.03 min
Lab File: VF062935.D
Acq: 12 Jun 2019 18:44

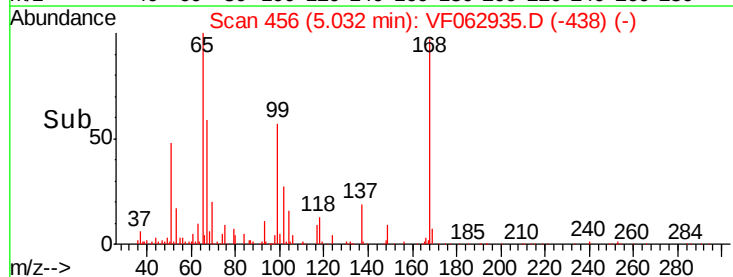
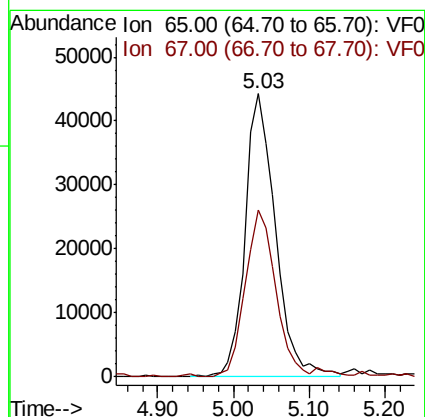
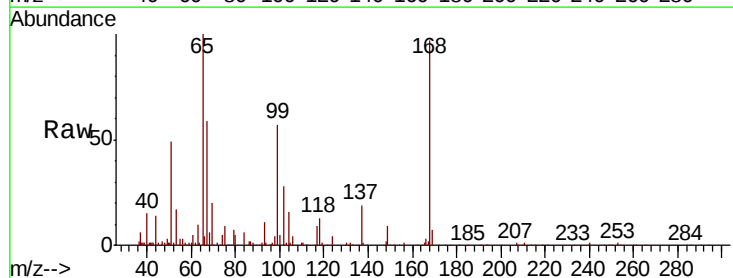
Instrument :
MSVOA_F
ClientSampleId :

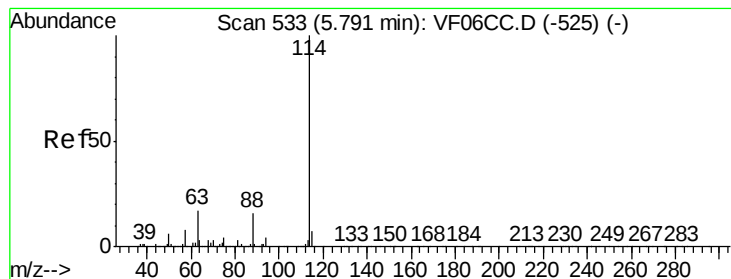
Tot Ion: 42 Resp: 920
Ion Ratio Lower Upper
42 100
72 87.1 39.0 58.6#
71 33.4 36.9 55.3#



#33
1,2-Dichloroethane-d4
Concen: 51.667 ug/l
RT: 5.03 min Scan# 456
Delta R.T. -0.02 min
Lab File: VF062935.D
Acq: 12 Jun 2019 18:44

Tgt Ion: 65 Resp: 123362
Ion Ratio Lower Upper
65 100
67 59.1 0.0 121.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.77 min Scan# 531

Delta R.T. -0.03 min

Lab File: VF062935.D

Acq: 12 Jun 2019 18:44

Instrument :

MSVOA_F

ClientSampleId :

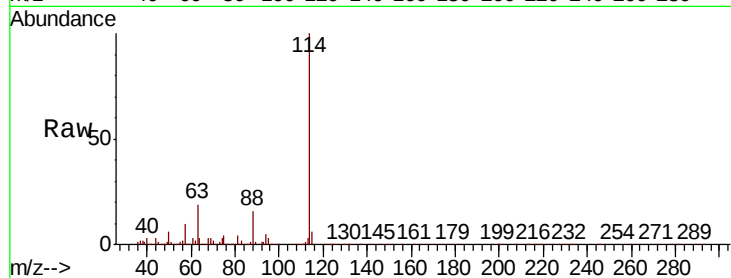
Tot Ion:114 Resp: 573596

Ion Ratio Lower Upper

114 100

63 19.2 0.0 34.2

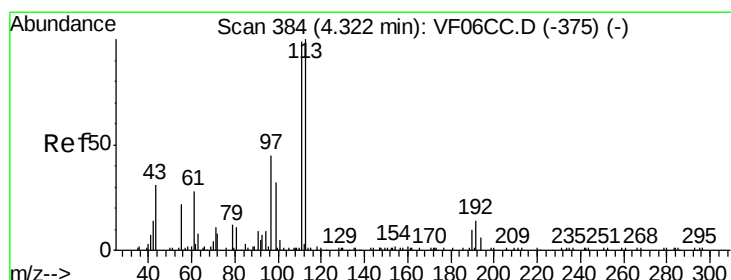
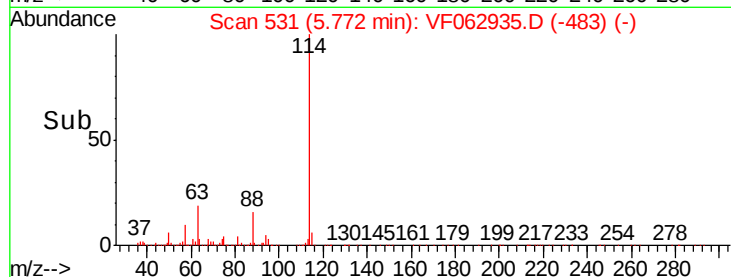
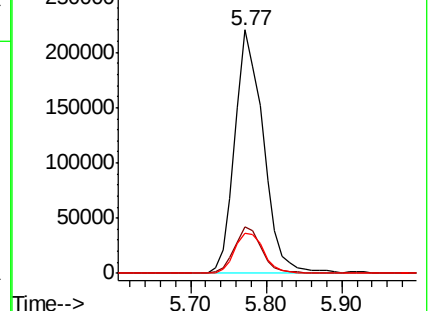
88 16.2 0.0 31.2



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 1.689 ug/l

RT: 4.31 min Scan# 383

Delta R.T. -0.02 min

Lab File: VF062935.D

Acq: 12 Jun 2019 18:44

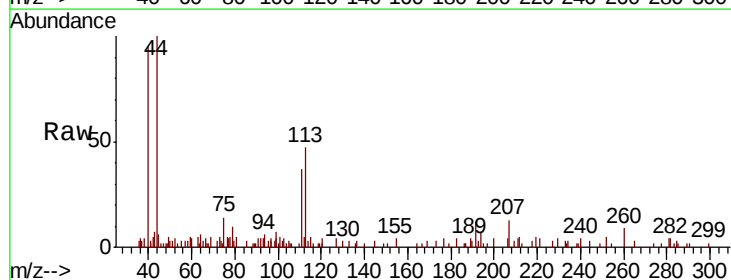
Tgt Ion:113 Resp: 7321

Ion Ratio Lower Upper

113 100

111 77.9 81.9 122.9#

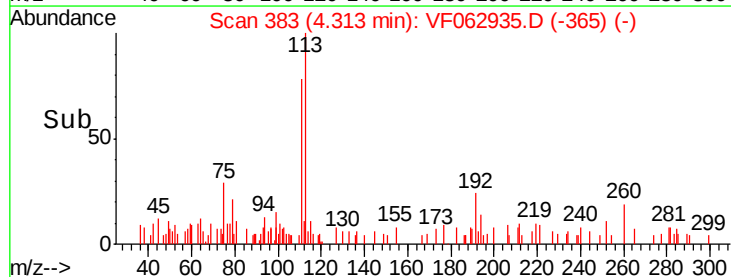
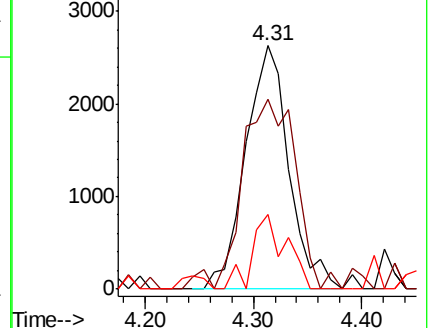
192 30.9 15.1 22.7#

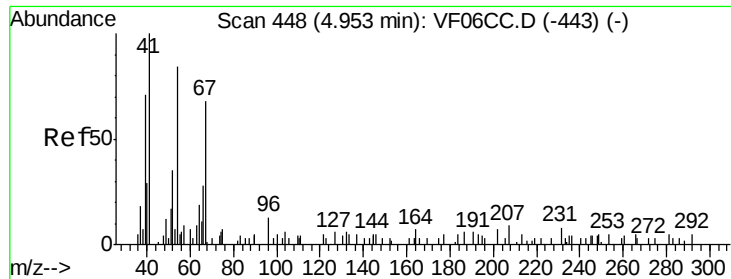


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

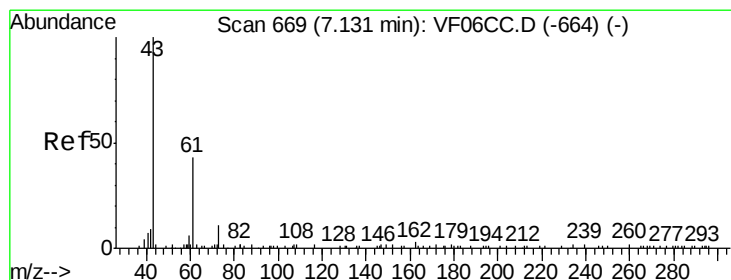
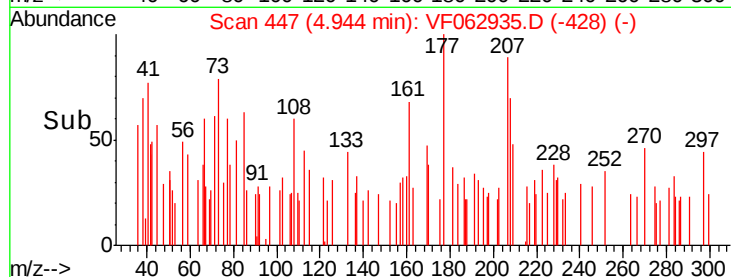
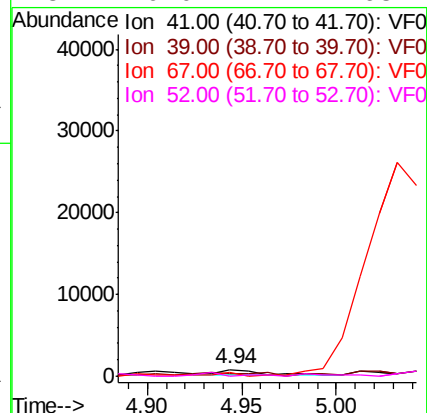
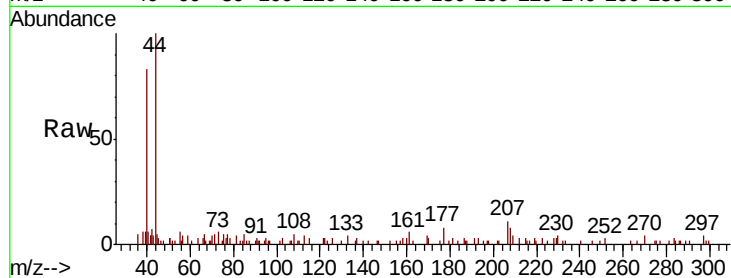




#41
Methacrylonitrile
Concen: 1.043 ug/l
RT: 4.94 min Scan# 447
Delta R.T. -0.01 min
Lab File: VF062935.D
Acq: 12 Jun 2019 18:44

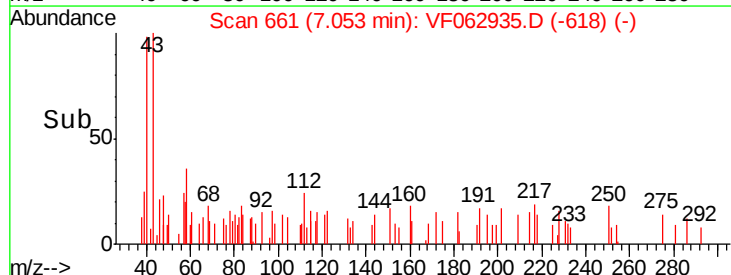
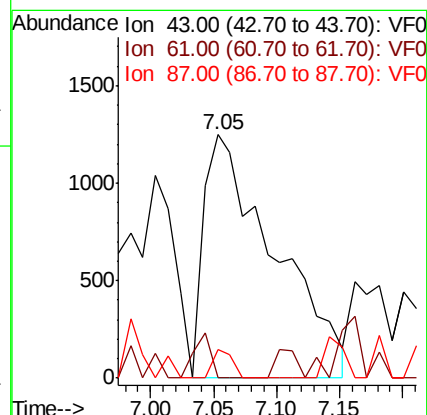
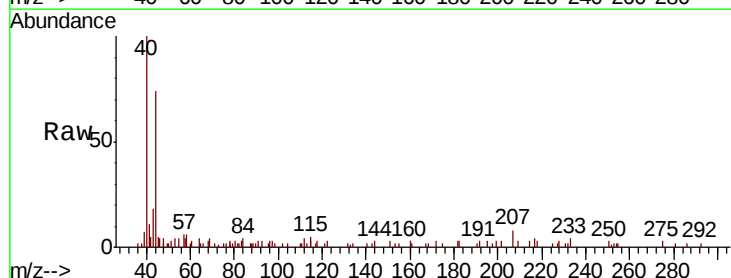
Instrument :
MSVOA_F
ClientSampleId :

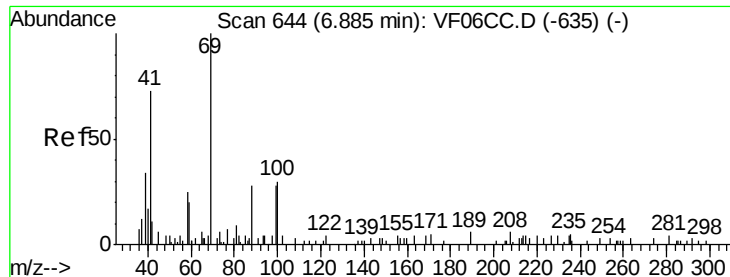
Tot Ion:	41	Resp:	1170
Ion	Ratio	Lower	Upper
41	100		
39	42.3	42.0	63.0
67	53.0	61.4	92.0#
52	0.0	42.1	63.1#



#43
Isopropyl Acetate
Concen: 1.823 ug/l
RT: 7.05 min Scan# 661
Delta R.T. -0.08 min
Lab File: VF062935.D
Acq: 12 Jun 2019 18:44

Tgt Ion:	43	Resp:	4861
Ion	Ratio	Lower	Upper
43	100		
61	0.0	29.8	44.6#
87	24.2	0.3	0.5#





#49

1,4-Dioxane

Concen: 7.674 ug/l

RT: 6.84 min Scan# 639

Delta R.T. -0.05 min

Lab File: VF062935.D

Acq: 12 Jun 2019 18:44

Instrument :
MSVOA_F
ClientSampleId :

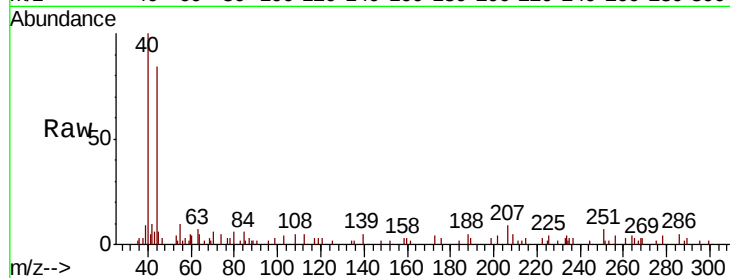
Tot Ion: 88 Resp: 139

Ion Ratio Lower Upper

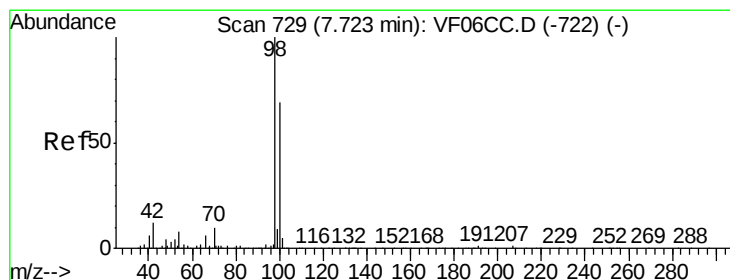
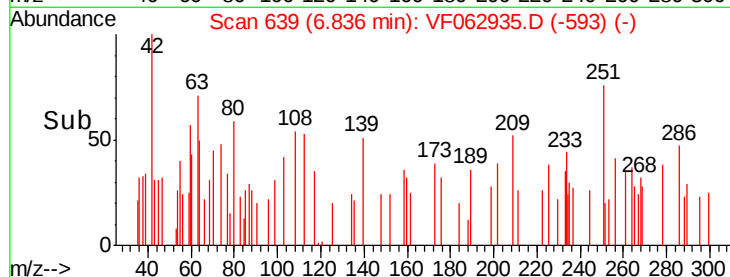
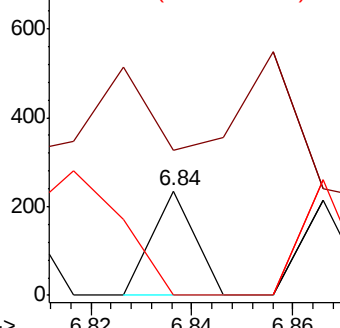
88 100

43 139.1 34.8 52.2#

58 0.0 59.9 89.9#



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: 39.152 ug/l

RT: 7.70 min Scan# 727

Delta R.T. -0.03 min

Lab File: VF062935.D

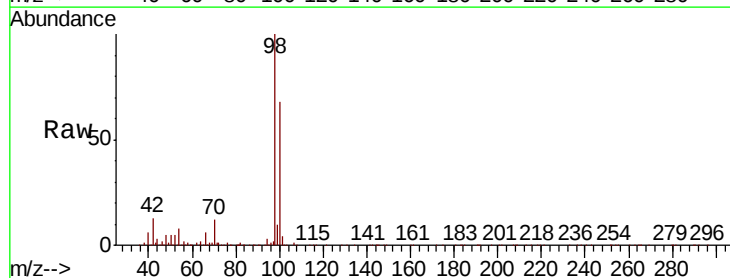
Acq: 12 Jun 2019 18:44

Tgt Ion: 98 Resp: 429137

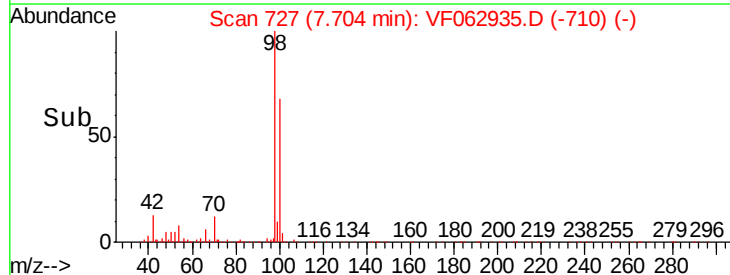
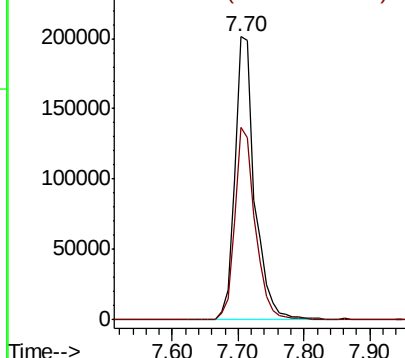
Ion Ratio Lower Upper

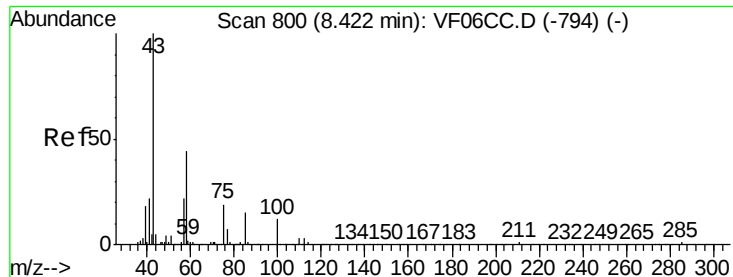
98 100

100 67.8 59.8 89.8



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: 3.750 ug/l

RT: 8.41 min Scan# 799

Delta R.T. -0.01 min

Lab File: VF062935.D

Acq: 12 Jun 2019 18:44

Instrument :

MSVOA_F

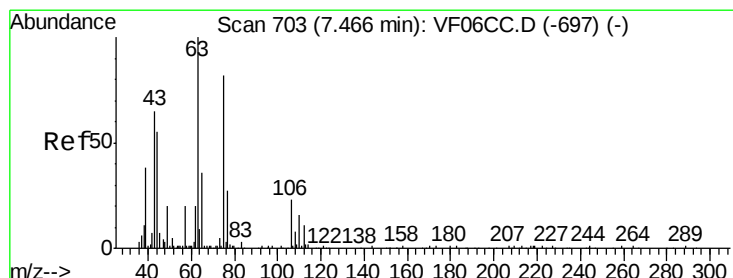
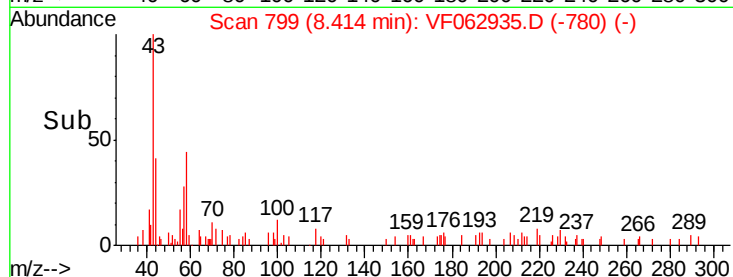
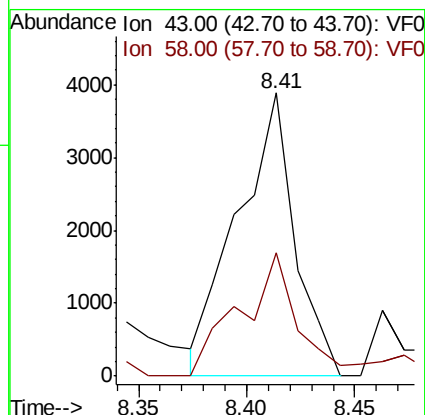
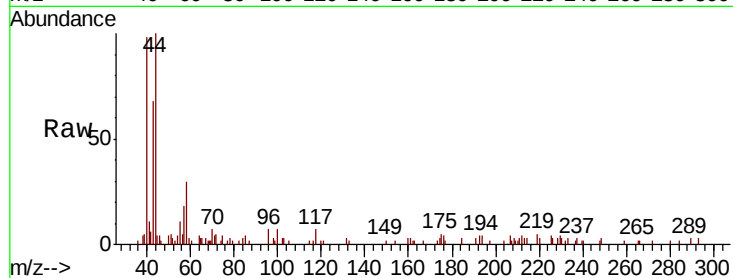
ClientSampleId :

Tot Ion: 43 Resp: 7139

Ion Ratio Lower Upper

43 100

58 43.4 35.5 53.3



#58

2-Chloroethyl Vinyl ether

Concen: 1.605 ug/l

RT: 7.45 min Scan# 701

Delta R.T. -0.02 min

Lab File: VF062935.D

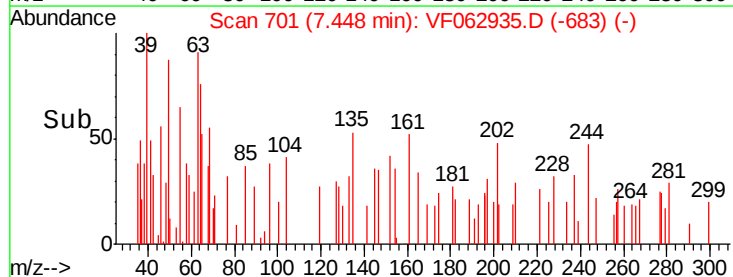
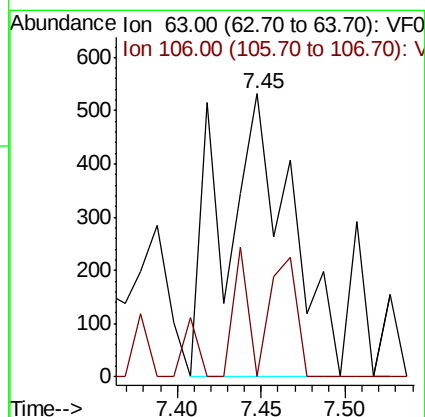
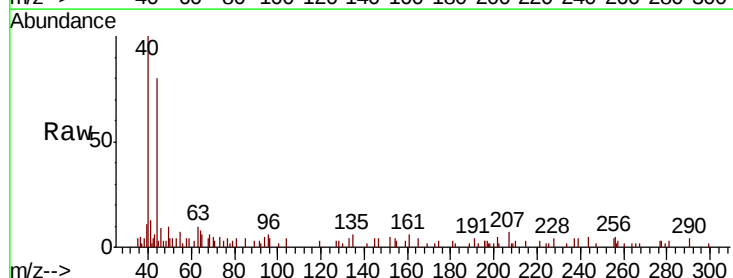
Acq: 12 Jun 2019 18:44

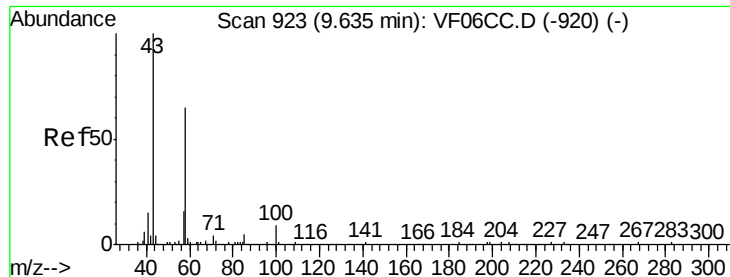
Tgt Ion: 63 Resp: 1488

Ion Ratio Lower Upper

63 100

106 0.0 19.5 29.3#

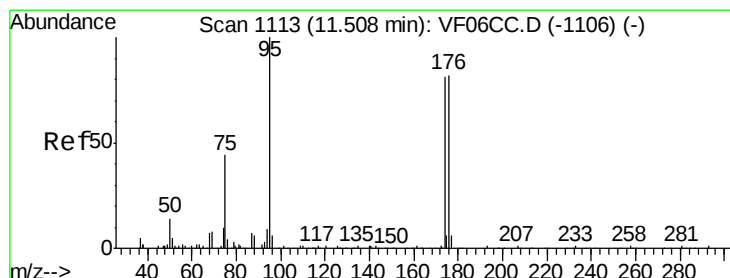
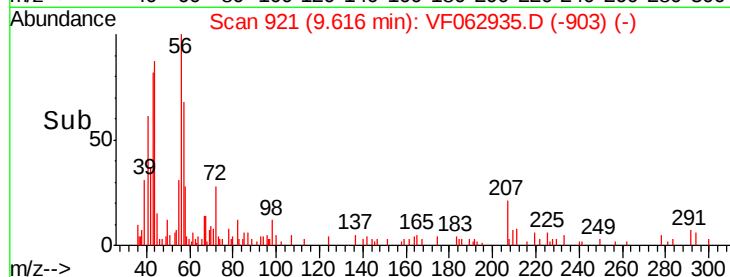
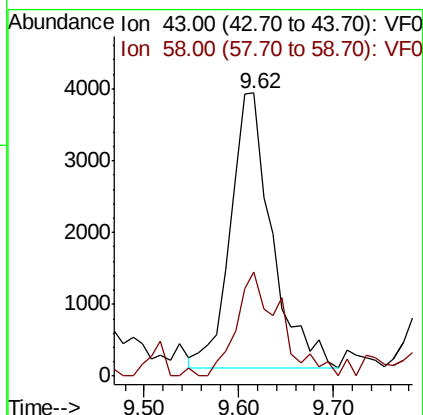
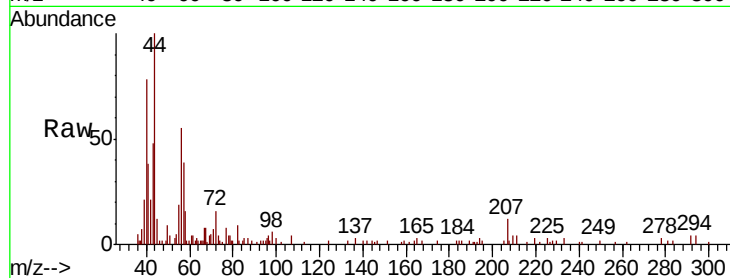




#59
2-Hexanone
Concen: 8.522 ug/l
RT: 9.62 min Scan# 921
Delta R.T. -0.02 min
Lab File: VF062935.D
Acq: 12 Jun 2019 18:44

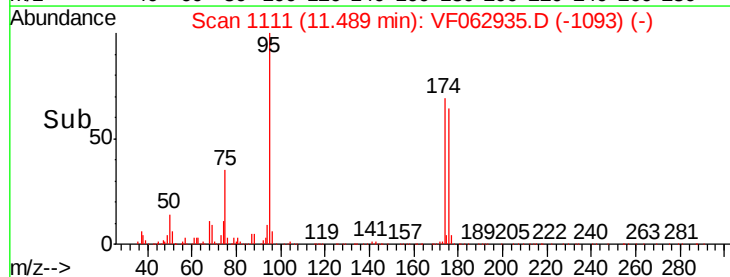
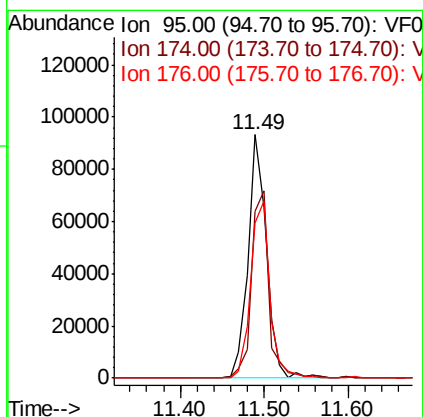
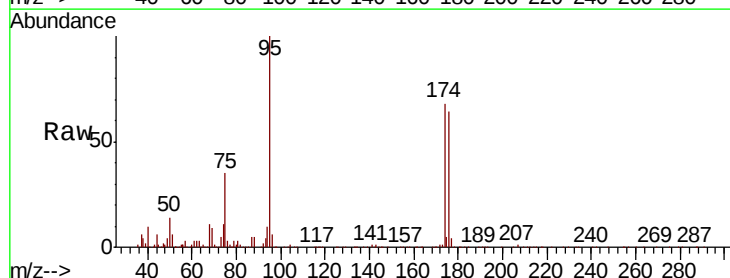
Instrument :
MSVOA_F
ClientSampleId :

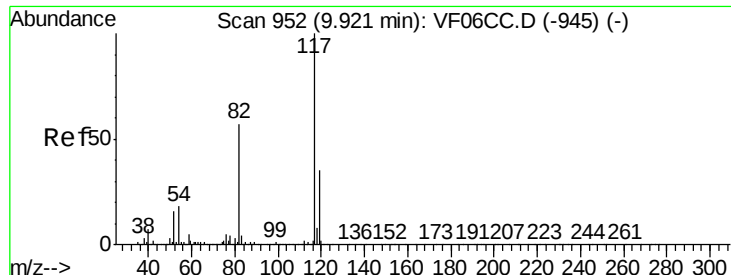
Tot Ion: 43 Resp: 11563
Ion Ratio Lower Upper
43 100
58 36.9 29.3 87.9



#62
4-Bromofluorobenzene
Concen: 36.260 ug/l
RT: 11.49 min Scan# 1111
Delta R.T. -0.02 min
Lab File: VF062935.D
Acq: 12 Jun 2019 18:44

Tgt Ion: 95 Resp: 142960
Ion Ratio Lower Upper
95 100
174 68.4 0.0 170.6
176 63.9 0.0 170.6

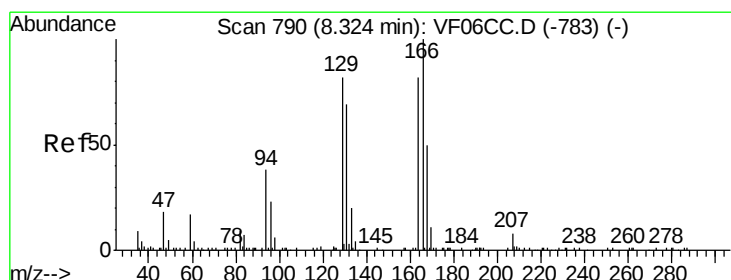
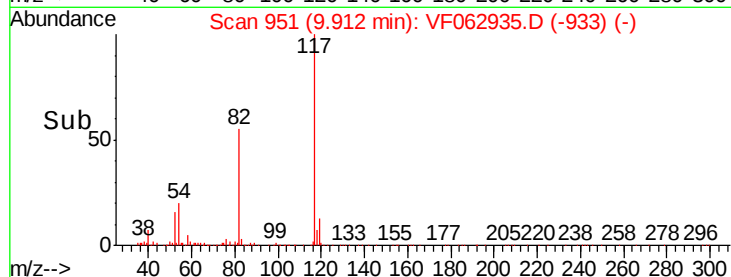
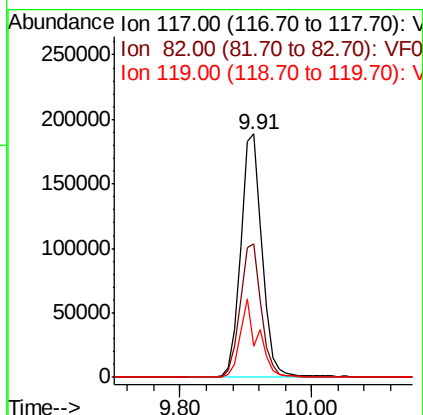
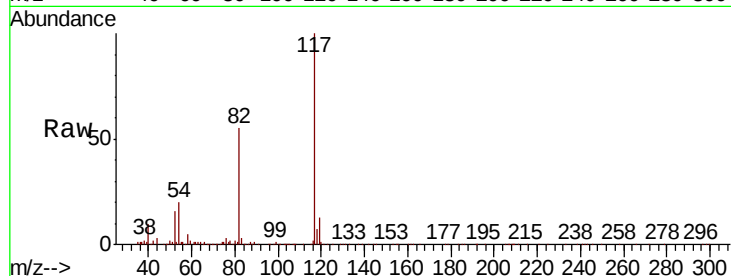




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 951
Delta R.T. -0.02 min
Lab File: VF062935.D
Acq: 12 Jun 2019 18:44

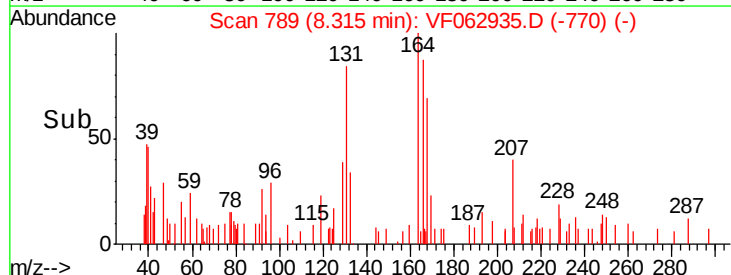
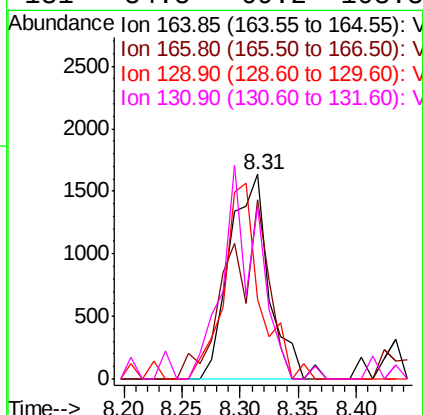
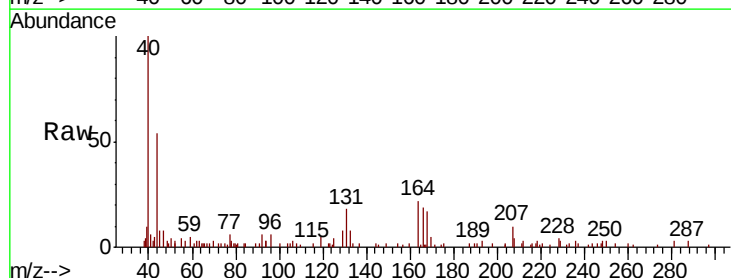
Instrument :
MSVOA_F
ClientSampleId :

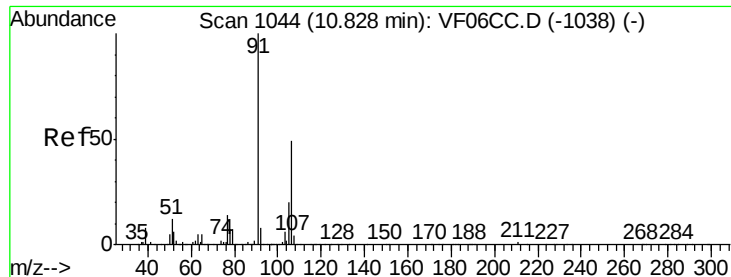
Tot Ion:117 Resp: 431180
Ion Ratio Lower Upper
117 100
82 55.1 42.4 63.6
119 12.9 27.1 40.7#



#64
Tetrachloroethene
Concen: 1.171 ug/l
RT: 8.31 min Scan# 789
Delta R.T. -0.01 min
Lab File: VF062935.D
Acq: 12 Jun 2019 18:44

Tgt Ion:164 Resp: 3881
Ion Ratio Lower Upper
164 100
166 87.5 99.1 148.7#
129 38.8 69.5 104.3#
131 84.5 69.2 103.8

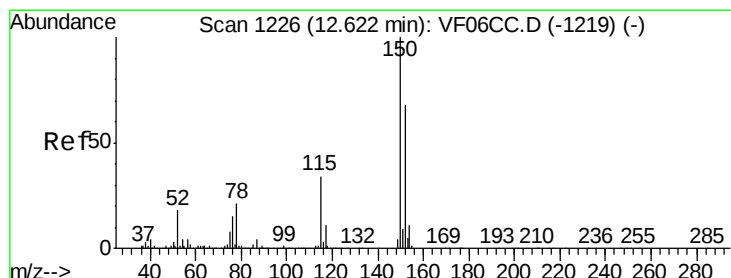
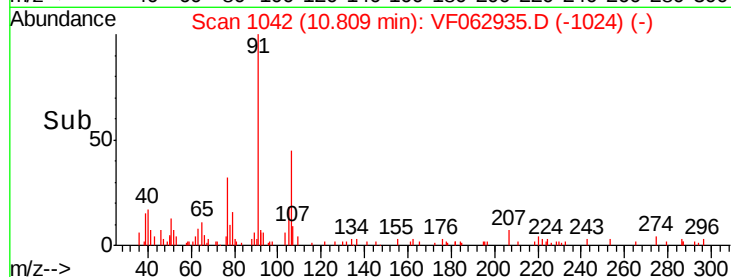
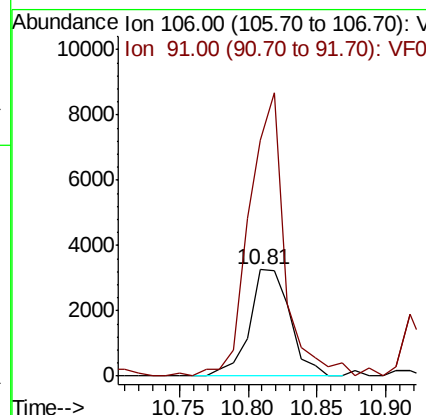
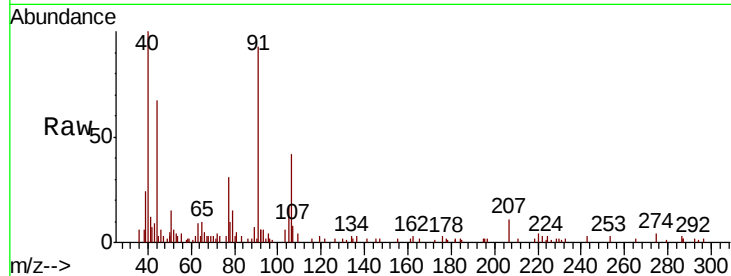




#69
o-Xylene
Concen: 1.208 ug/l
RT: 10.81 min Scan# 1042
Delta R.T. -0.02 min
Lab File: VF062935.D
Acq: 12 Jun 2019 18:44

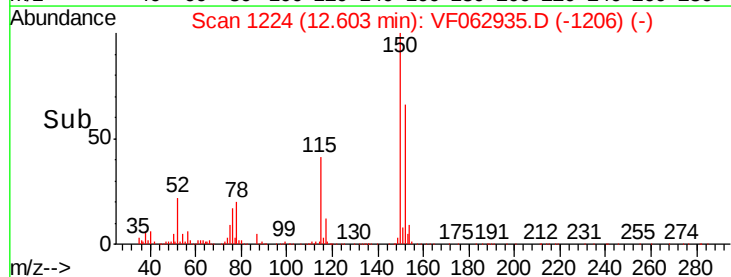
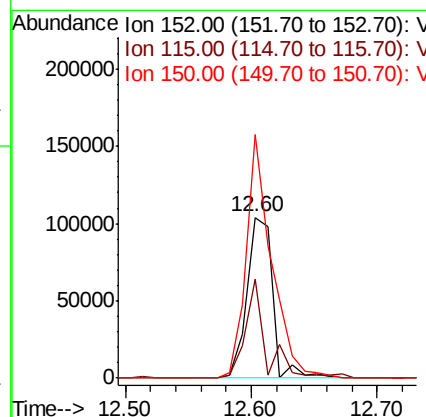
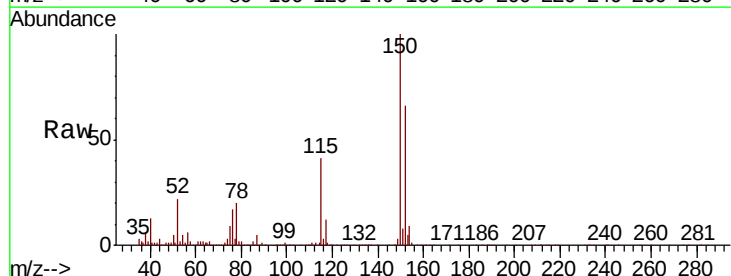
Instrument :
MSVOA_F
ClientSampleId :

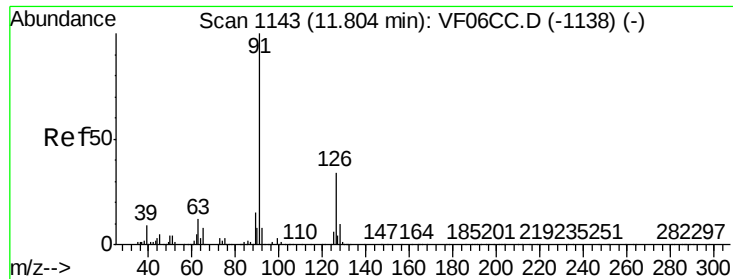
Tot Ion:106 Resp: 6685
Ion Ratio Lower Upper
106 100
91 222.2 96.6 289.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.60 min Scan# 1224
Delta R.T. -0.02 min
Lab File: VF062935.D
Acq: 12 Jun 2019 18:44

Tgt Ion:152 Resp: 145296
Ion Ratio Lower Upper
152 100
115 61.9 24.6 74.0
150 151.5 0.0 290.6

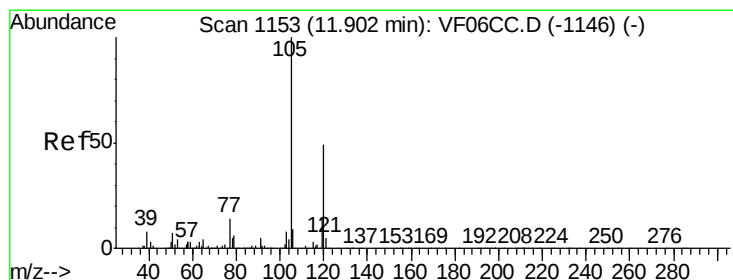
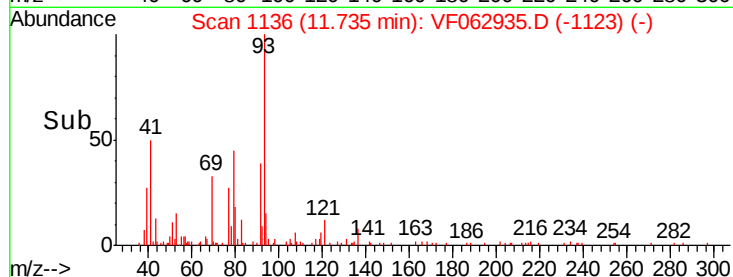
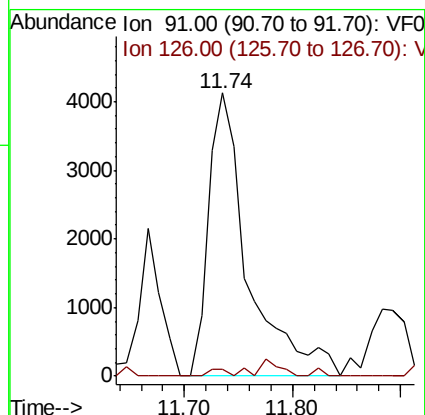
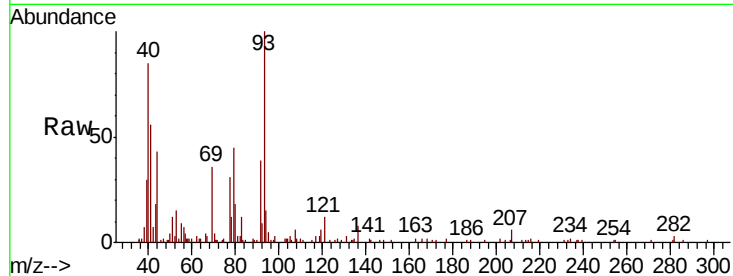




#79
 2-Chlorotoluene
 Concen: 1.494 ug/l
 RT: 11.74 min Scan# 1136
 Delta R.T. -0.07 min
 Lab File: VF062935.D
 Acq: 12 Jun 2019 18:44

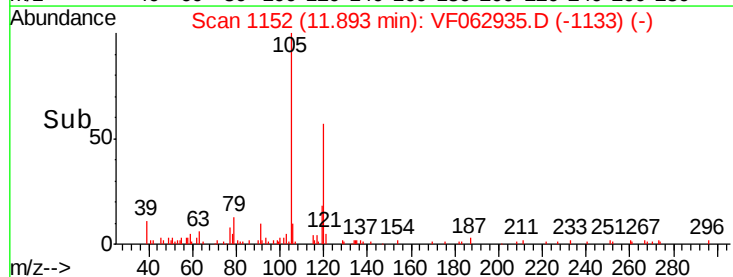
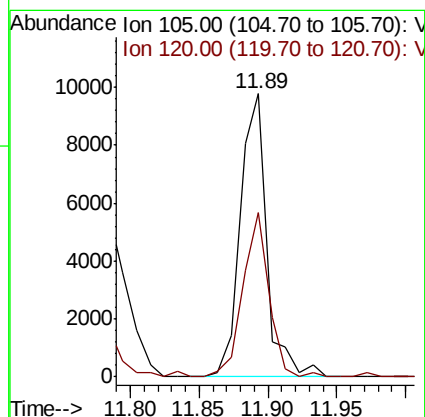
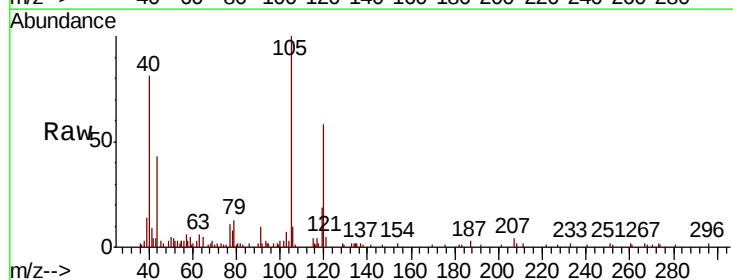
Instrument :
 MSVOA_F
 ClientSampleId :

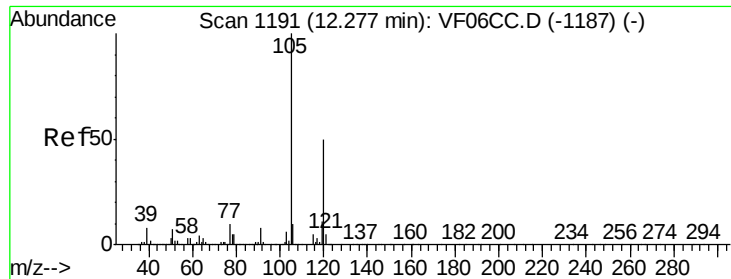
Tot Ion: 91 Resp: 10465
 Ion Ratio Lower Upper
 91 100
 126 2.5 17.8 53.3#



#80
 1,3,5-Trimethylbenzene
 Concen: 1.588 ug/l
 RT: 11.89 min Scan# 1152
 Delta R.T. -0.01 min
 Lab File: VF062935.D
 Acq: 12 Jun 2019 18:44

Tgt Ion:105 Resp: 13162
 Ion Ratio Lower Upper
 105 100
 120 58.1 28.7 86.1





#84

1,2,4-Trimethylbenzene

Concen: 6.749 ug/l

RT: 12.27 min Scan# 1190

Delta R.T. -0.01 min

Lab File: VF062935.D

Acq: 12 Jun 2019 18:44

Instrument :

MSVOA_F

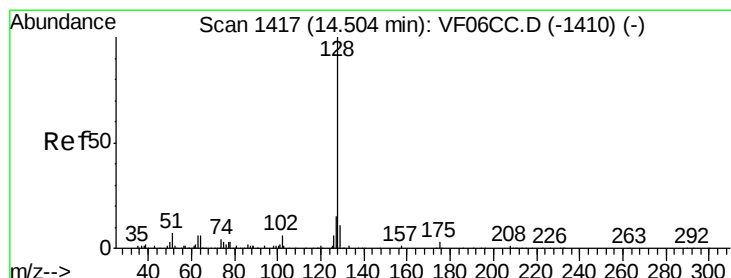
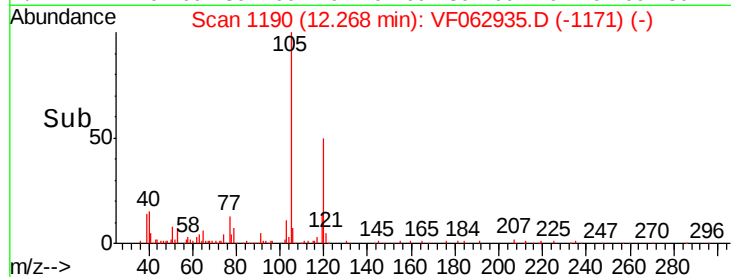
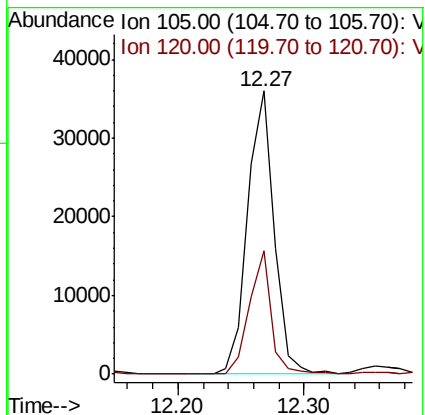
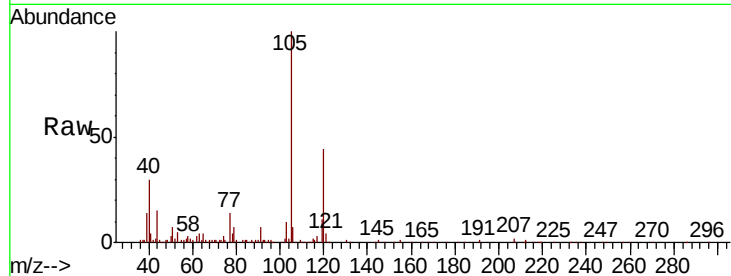
ClientSampleId :

Tot Ion:105 Resp: 53055

Ion Ratio Lower Upper

105 100

120 43.7 27.1 81.3



#95

Naphthalene

Concen: 3.255 ug/l

RT: 14.50 min Scan# 1416

Delta R.T. -0.01 min

Lab File: VF062935.D

Acq: 12 Jun 2019 18:44

Tgt Ion:128 Resp: 14459

Ion Ratio Lower Upper

128 100

127 15.0 9.7 14.5#

129 10.4 9.4 14.2

