

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF111618\
 Data File : VF060766.D
 Acq On : 16 Nov 2018 16:01
 Operator : VA/AP
 Sample : J5767-15RE
 Misc : 5.74g/5mL/MSVOA-F/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 CL-01-111418-DRE

Quant Time: Nov 17 04:22:43 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 14 03:11:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.89	168	90009	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.61	114	132446	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.79	117	116578	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	64285	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.86	65	25276	24.62	ug/l	0.00
Spiked Amount			Recovery	=	49.24%	
35) Dibromofluoromethane	4.13	113	32205	32.35	ug/l	0.00
Spiked Amount			Recovery	=	64.70%	
50) Toluene-d8	7.57	98	104026	39.98	ug/l	0.00
Spiked Amount			Recovery	=	79.96%	
62) 4-Bromofluorobenzene	11.42	95	47124	39.12	ug/l	0.00
Spiked Amount			Recovery	=	78.24%	

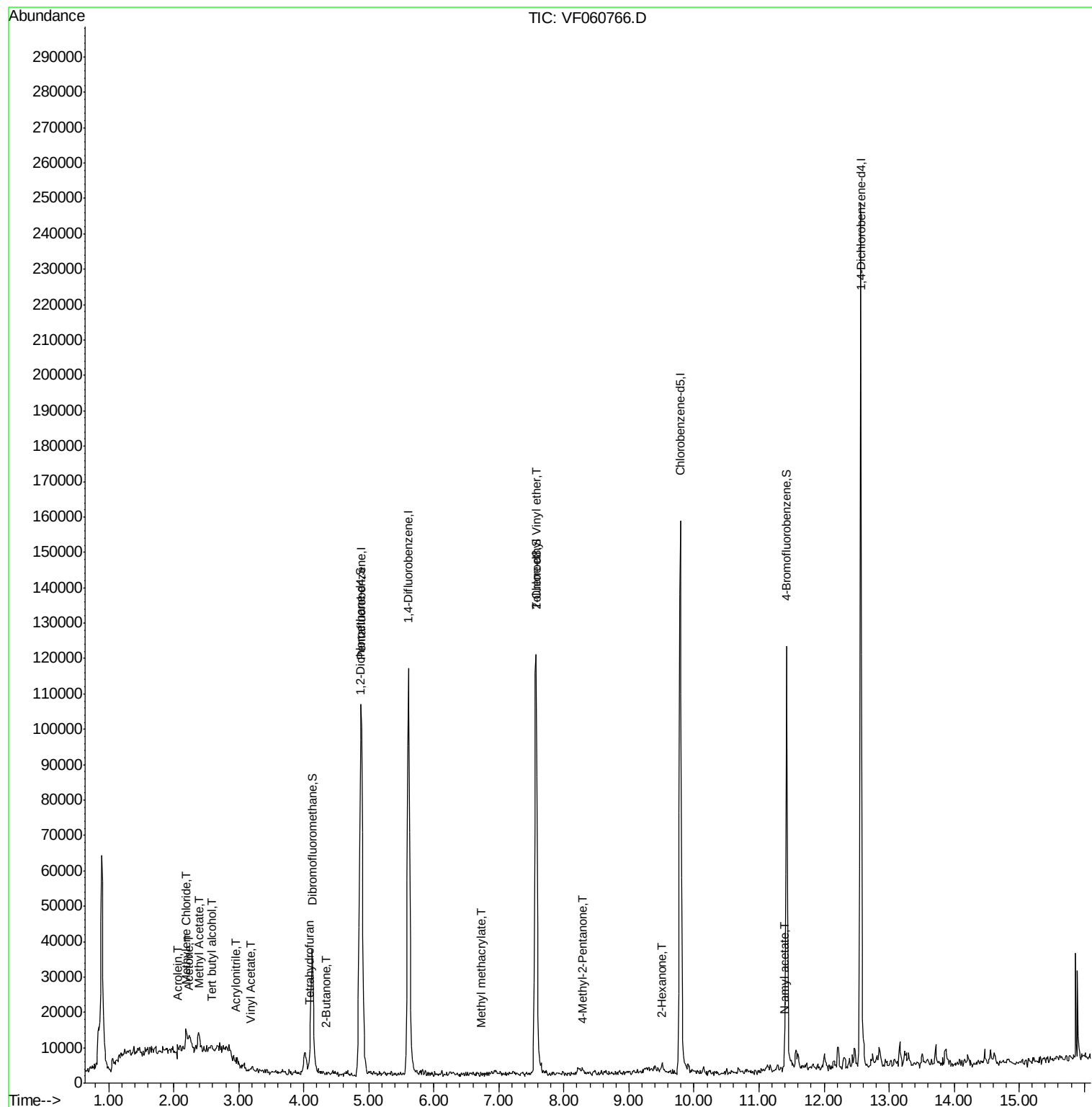
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.58	59	93	1.990	ug/l #	1
13) Acrolein	2.05	56	632	14.793	ug/l	96
15) Acrylonitrile	2.95	53	227	2.280	ug/l #	71
16) Acetone	2.25	43	7297	33.253	ug/l	99
18) Methyl Acetate	2.39	43	2103	5.836	ug/l #	64
20) Methylene Chloride	2.20	84	2941	1.243	ug/l #	79
23) Vinyl Acetate	3.18	43	1553	1.328	ug/l #	77
25) 2-Butanone	4.35	43	1090	3.020	ug/l #	56
29) Tetrahydrofuran	4.08	42	602	4.043	ug/l #	36
41) Methacrylonitrile	4.76	41	506	Below Cal	#	43
48) Methyl methacrylate	6.72	41	887	1.770	ug/l #	44
51) 4-Methyl-2-Pentanone	8.29	43	2985	5.451	ug/l #	85
58) 2-Chloroethyl Vinyl ether	7.57	63	78	1.147	ug/l	100
59) 2-Hexanone	9.51	43	3763	9.778	ug/l	85
74) N-amyl acetate	11.38	43	2208	1.874	ug/l #	76

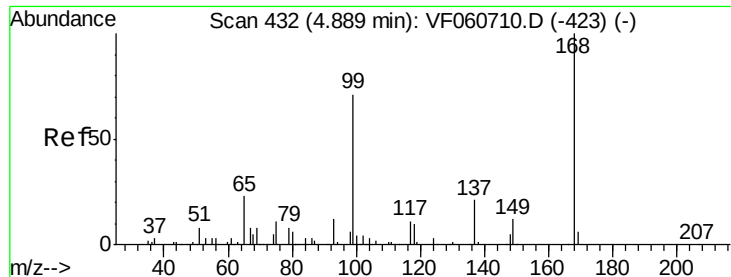
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Nov 14 03:11:14 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. 0.00 min

Lab File: VF060766.D

Acq: 16 Nov 2018 16:01

Instrument :

MSVOA_F

ClientSampleId :

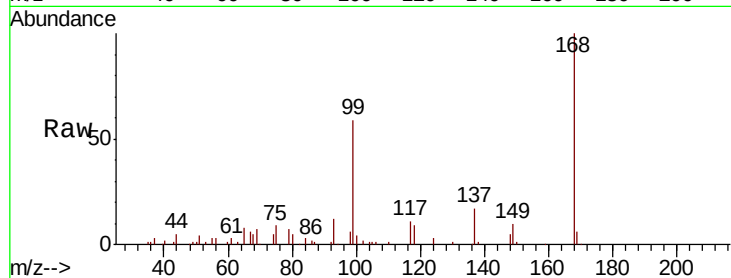
CL-01-111418-DRE

Tot Ion:168 Resp: 90009

Ion Ratio Lower Upper

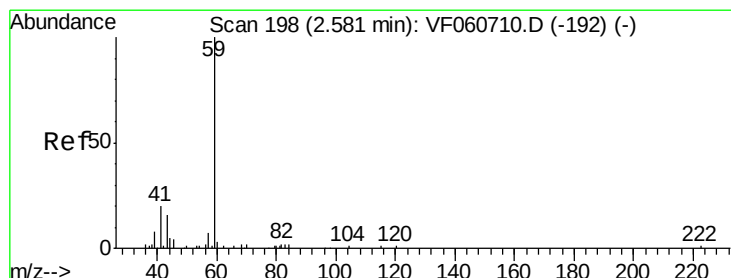
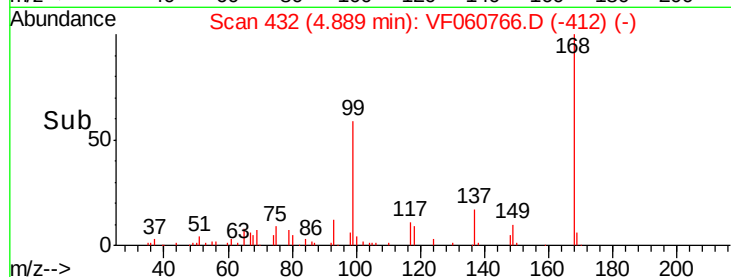
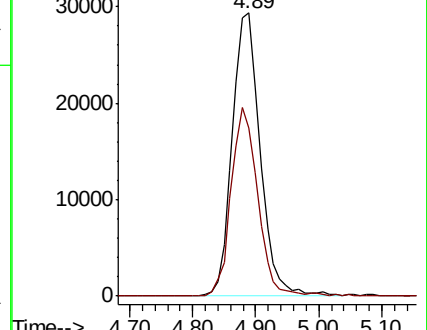
168 100

99 59.4 57.2 85.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#11

Tert butyl alcohol

Concen: 1.990 ug/l

RT: 2.58 min Scan# 198

Delta R.T. 0.00 min

Lab File: VF060766.D

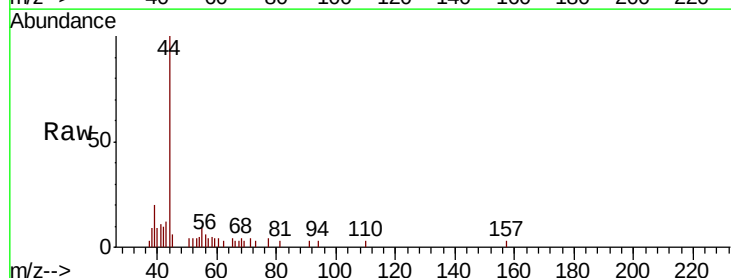
Acq: 16 Nov 2018 16:01

Tgt Ion: 59 Resp: 93

Ion Ratio Lower Upper

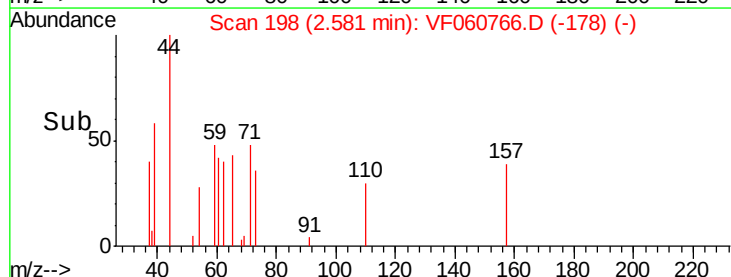
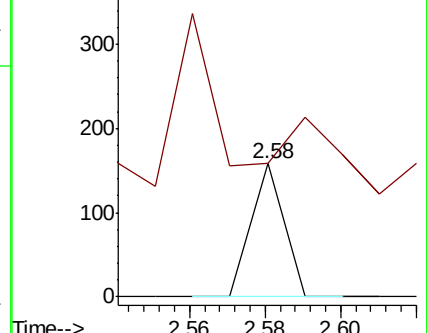
59 100

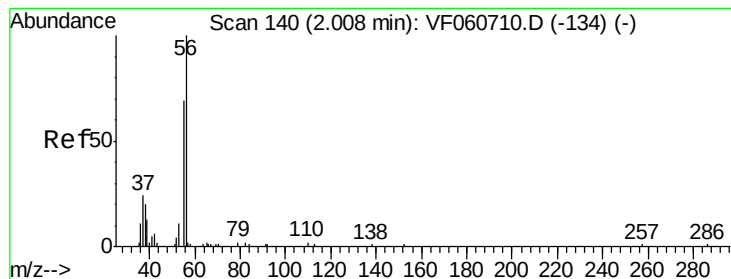
57 100.6 10.5 15.7#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: 14.793 ug/l

RT: 2.05 min Scan# 144

Delta R.T. 0.04 min

Lab File: VF060766.D

Acq: 16 Nov 2018 16:01

Instrument :

MSVOA_F

ClientSampleId :

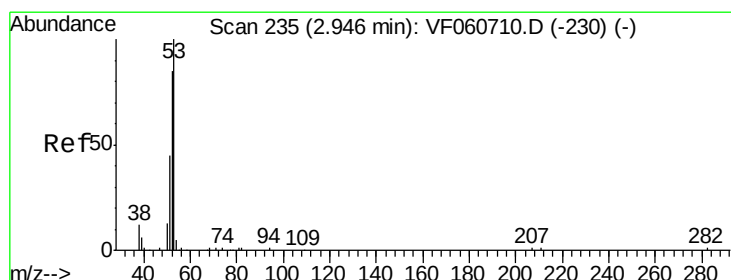
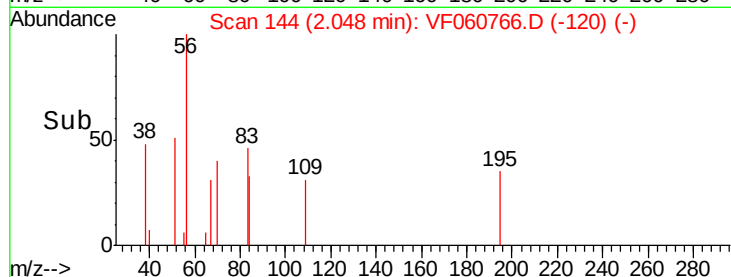
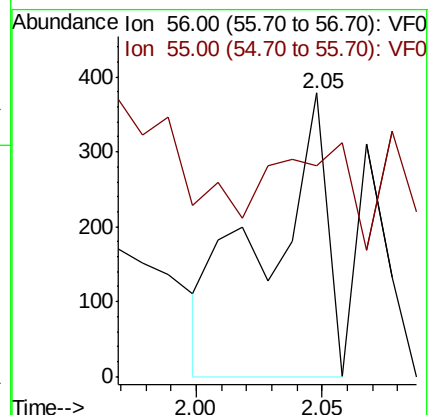
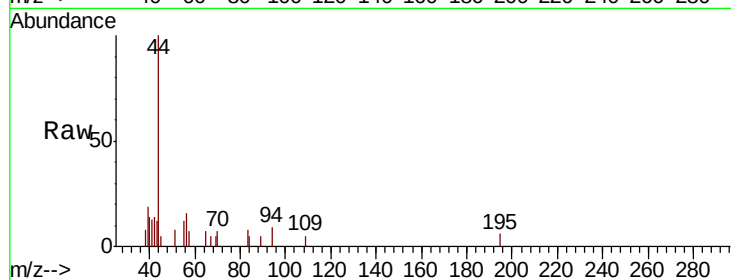
CL-01-111418-DRE

Tot Ion: 56 Resp: 632

Ion Ratio Lower Upper

56 100

55 74.3 56.6 85.0



#15

Acrylonitrile

Concen: 2.280 ug/l

RT: 2.95 min Scan# 235

Delta R.T. 0.00 min

Lab File: VF060766.D

Acq: 16 Nov 2018 16:01

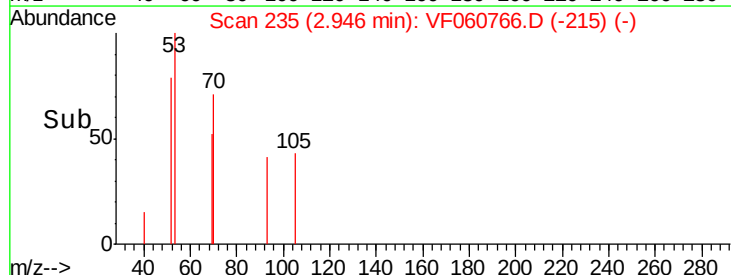
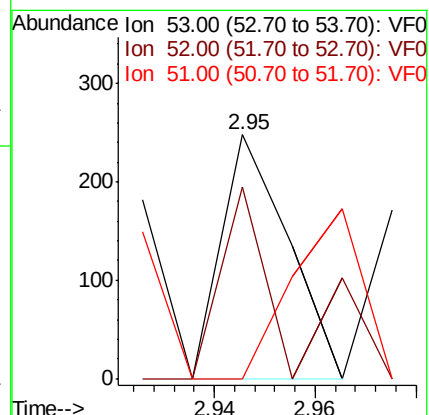
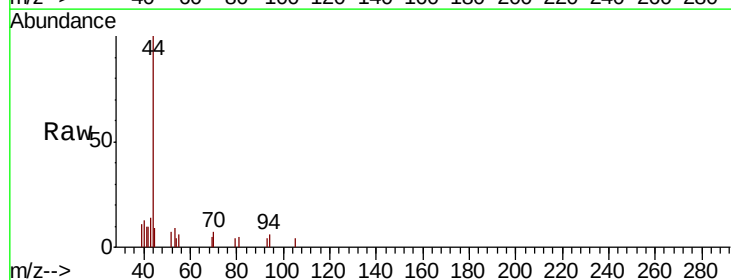
Tgt Ion: 53 Resp: 227

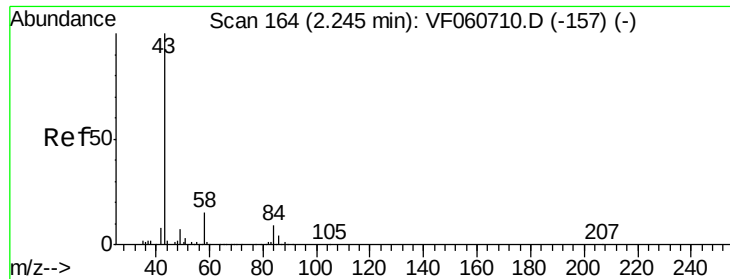
Ion Ratio Lower Upper

53 100

52 78.6 68.8 103.2

51 0.0 36.7 55.1#





#16

Acetone

Concen: 33.253 ug/l

RT: 2.25 min Scan# 164

Delta R.T. 0.00 min

Lab File: VF060766.D

Acq: 16 Nov 2018 16:01

Instrument :

MSVOA_F

ClientSampleId :

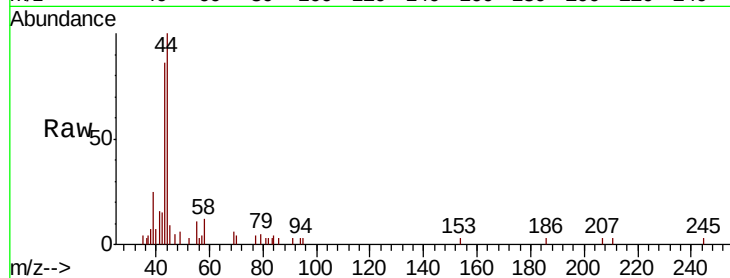
CL-01-111418-DRE

Tot Ion: 43 Resp: 7297

Ion Ratio Lower Upper

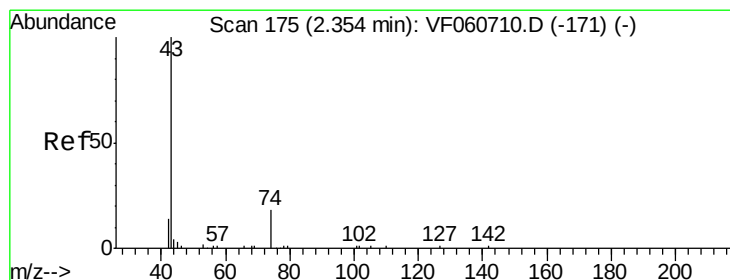
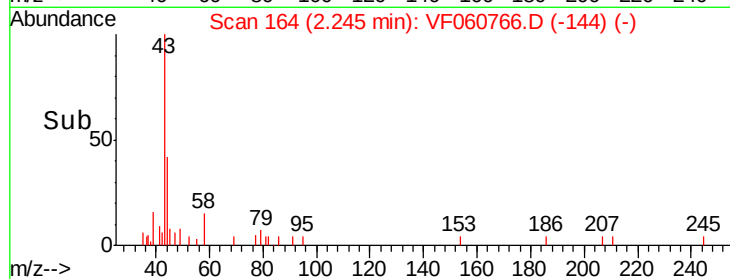
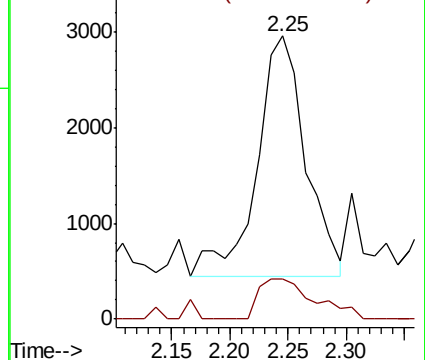
43 100

58 14.1 11.6 17.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#18

Methyl Acetate

Concen: 5.836 ug/l

RT: 2.39 min Scan# 179

Delta R.T. 0.04 min

Lab File: VF060766.D

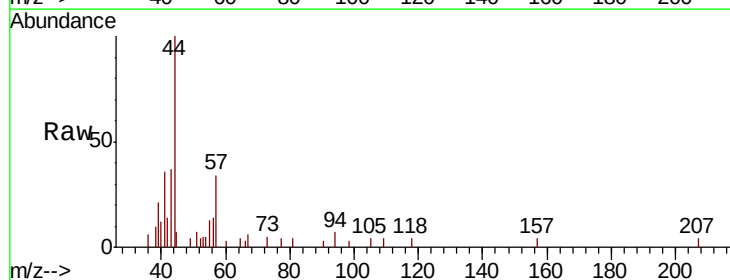
Acq: 16 Nov 2018 16:01

Tgt Ion: 43 Resp: 2103

Ion Ratio Lower Upper

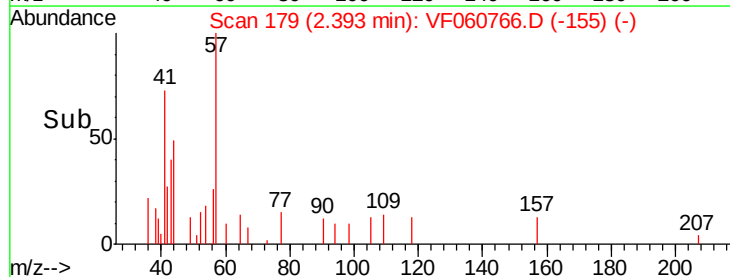
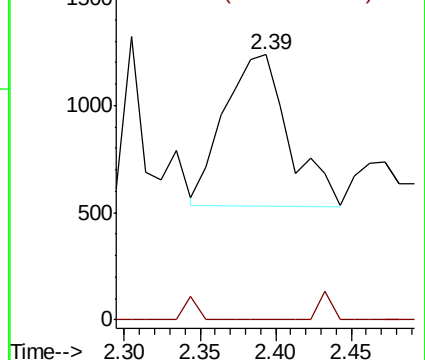
43 100

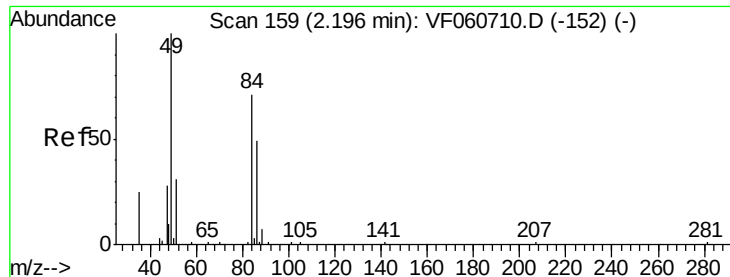
74 0.0 11.8 17.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

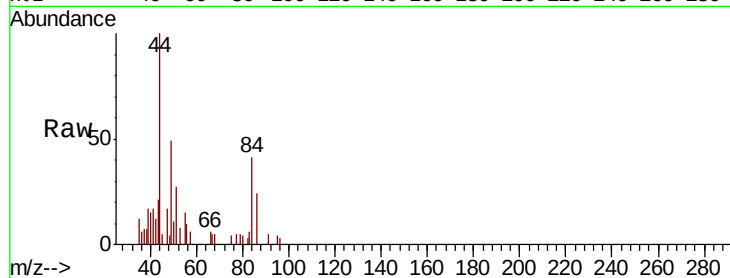




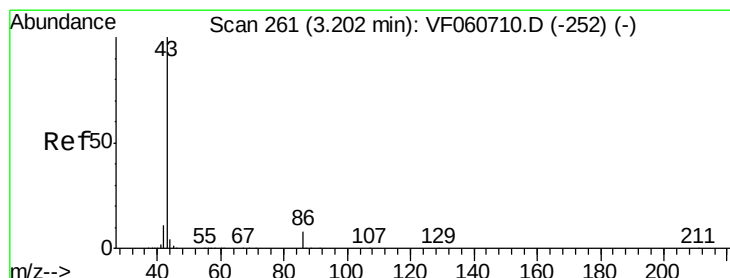
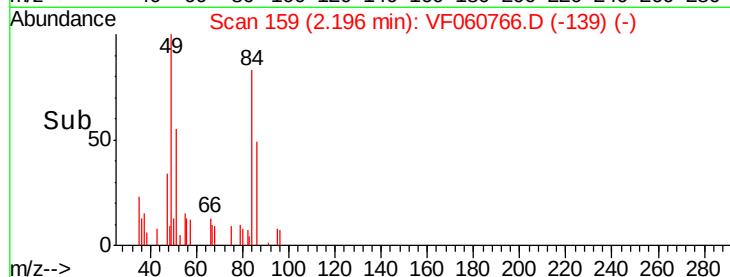
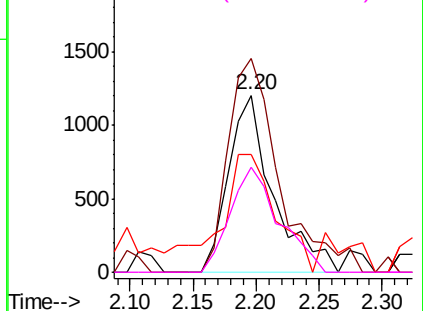
#20
Methvlene Chloride
Concen: 1.243 ug/l
RT: 2.20 min Scan# 159
Delta R.T. 0.00 min
Lab File: VF060766.D
Acq: 16 Nov 2018 16:01

Instrument :
MSVOA_F
ClientSampleId :
CL-01-111418-DRE

Tot Ion: 84 Resp: 2941
Ion Ratio Lower Upper
84 100
49 120.7 120.2 180.4
51 66.3 37.2 55.8#
86 59.5 55.1 82.7

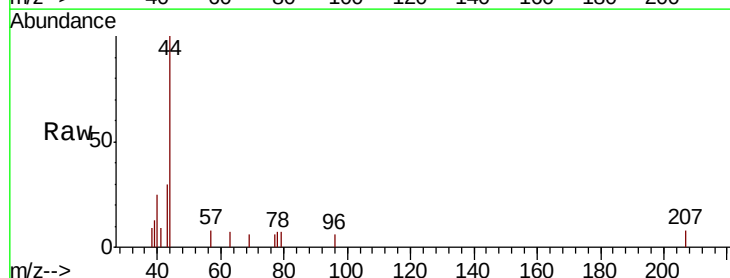


Abundance Ion 84.00 (83.70 to 84.70): VF0
Ion 49.00 (48.70 to 49.70): VF0
Ion 51.00 (50.70 to 51.70): VF0
Ion 86.00 (85.70 to 86.70): VF0

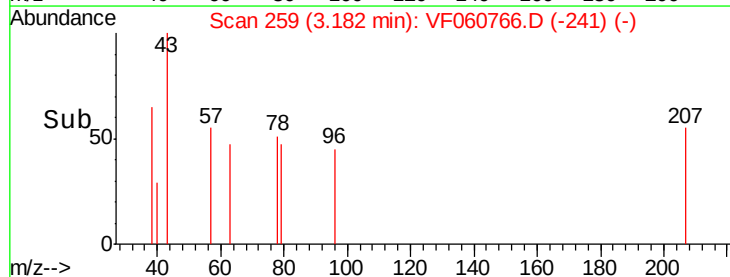
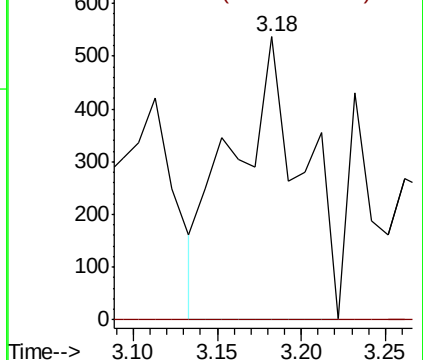


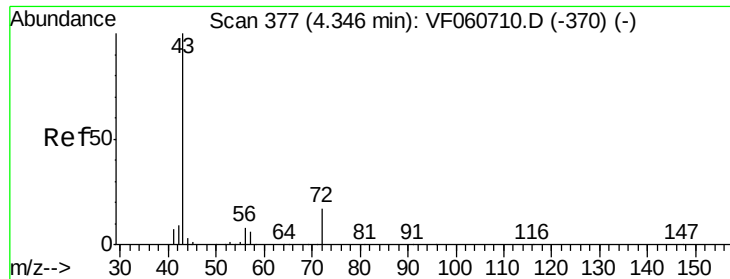
#23
Vinyl Acetate
Concen: 1.328 ug/l
RT: 3.18 min Scan# 259
Delta R.T. -0.02 min
Lab File: VF060766.D
Acq: 16 Nov 2018 16:01

Tgt Ion: 43 Resp: 1553
Ion Ratio Lower Upper
43 100
86 0.0 6.4 9.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 86.00 (85.70 to 86.70): VF0





#25

2-Butanone

Concen: 3.020 ug/l

RT: 4.35 min Scan# 377

Delta R.T. 0.00 min

Lab File: VF060766.D

Acq: 16 Nov 2018 16:01

Instrument :

MSVOA_F

ClientSampleId :

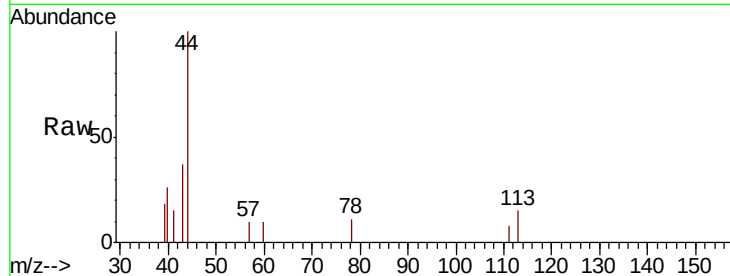
CL-01-111418-DRE

Tot Ion: 43 Resp: 1090

Ion Ratio Lower Upper

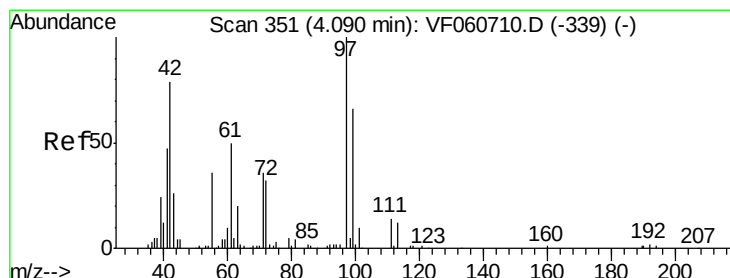
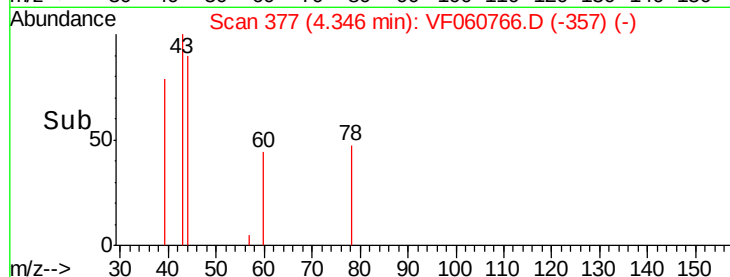
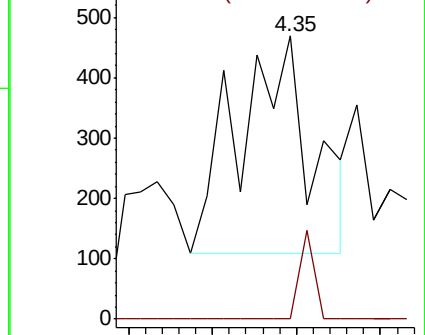
43 100

72 0.0 16.1 24.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#29

Tetrahydrofuran

Concen: 4.043 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.01 min

Lab File: VF060766.D

Acq: 16 Nov 2018 16:01

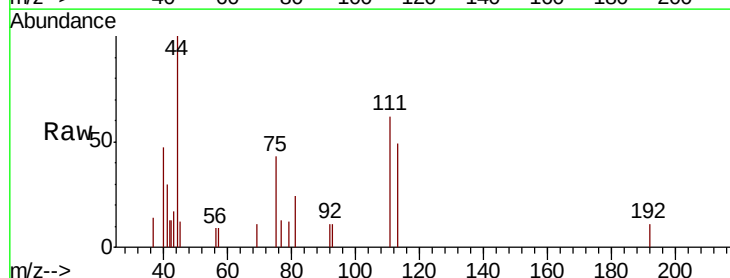
Tgt Ion: 42 Resp: 602

Ion Ratio Lower Upper

42 100

72 0.0 30.3 45.5#

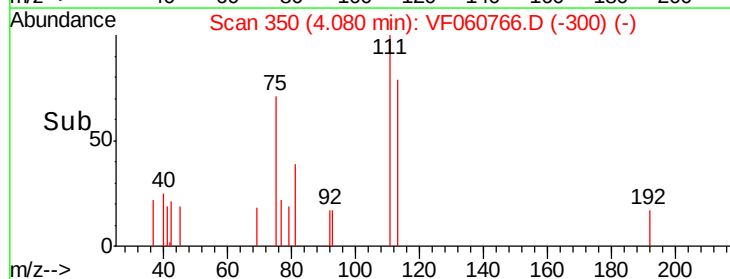
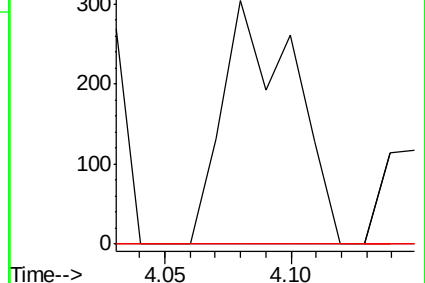
71 0.0 32.2 48.2#

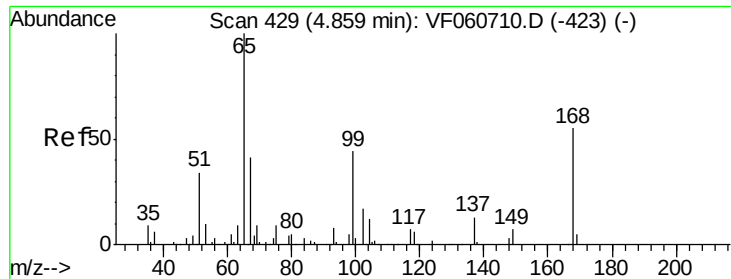


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

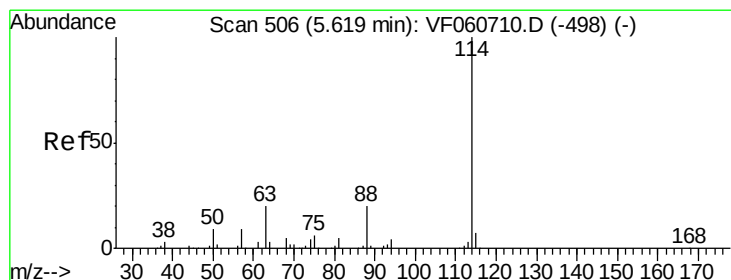
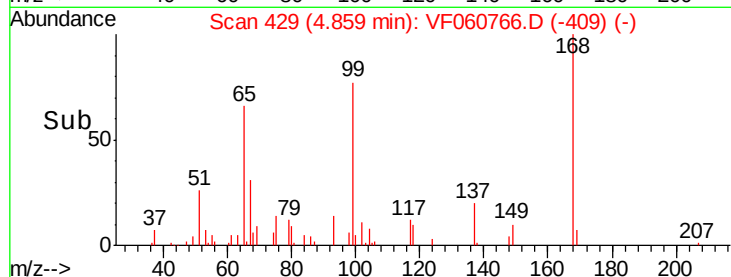
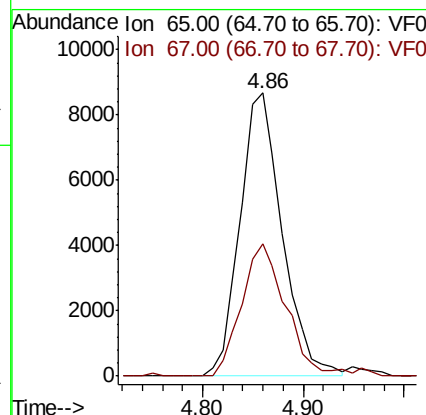
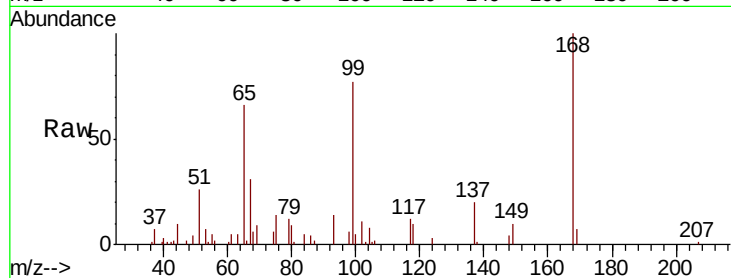




#33
 1,2-Dichloroethane-d4
 Concen: 24.620 ug/l
 RT: 4.86 min Scan# 429
 Delta R.T. 0.00 min
 Lab File: VF060766.D
 Acq: 16 Nov 2018 16:01

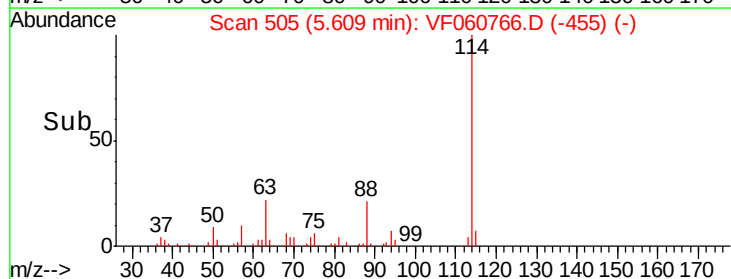
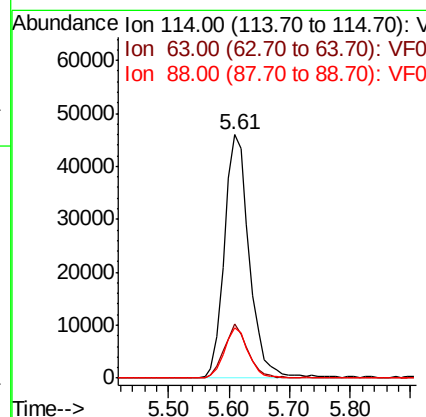
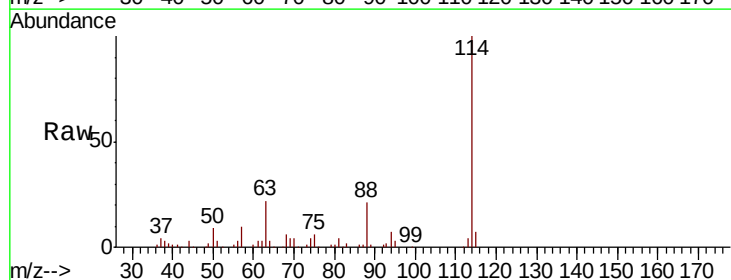
Instrument :
 MSVOA_F
 ClientSampleId :
 CL-01-111418-DRE

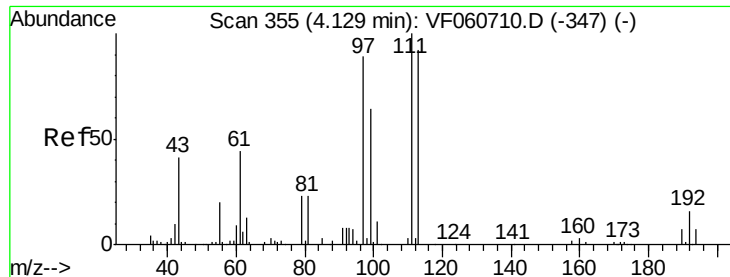
Tot Ion: 65 Resp: 25276
 Ion Ratio Lower Upper
 65 100
 67 46.6 0.0 90.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.61 min Scan# 505
 Delta R.T. -0.01 min
 Lab File: VF060766.D
 Acq: 16 Nov 2018 16:01

Tgt Ion: 114 Resp: 132446
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 40.8
 88 20.9 0.0 39.6





#35

Dibromofluoromethane

Concen: 32.348 ug/l

RT: 4.13 min Scan# 355

Delta R.T. 0.00 min

Lab File: VF060766.D

Acq: 16 Nov 2018 16:01

Instrument :

MSVOA_F

ClientSampleId :

CL-01-111418-DRE

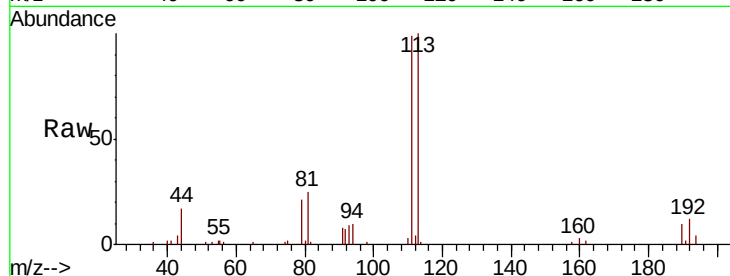
Tot Ion:113 Resp: 32205

Ion Ratio Lower Upper

113 100

111 98.7 87.1 130.7

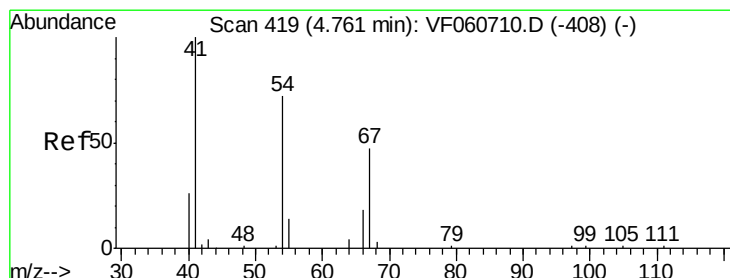
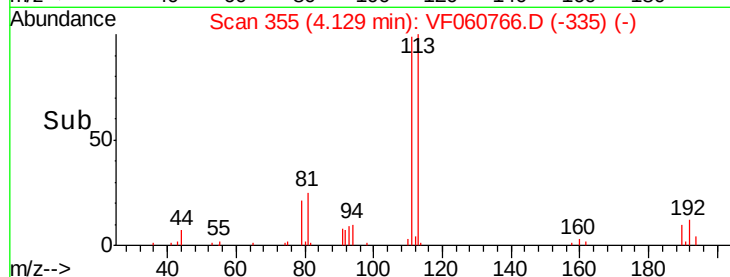
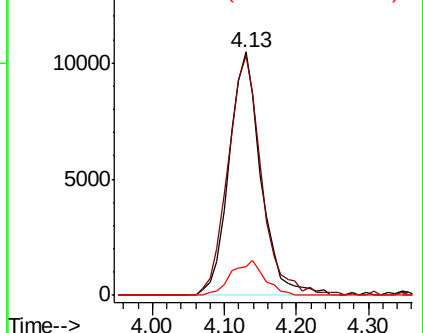
192 11.7 13.8 20.6#



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: Below Cal

RT: 4.76 min Scan# 419

Delta R.T. 0.00 min

Lab File: VF060766.D

Acq: 16 Nov 2018 16:01

Tgt Ion: 41 Resp: 506

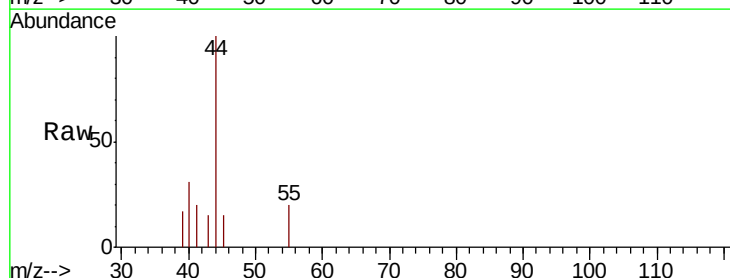
Ion Ratio Lower Upper

41 100

39 84.2 47.1 70.7#

67 0.0 37.1 55.7#

52 0.0 39.3 58.9#

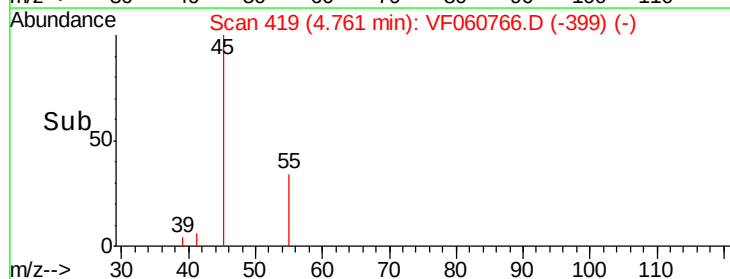
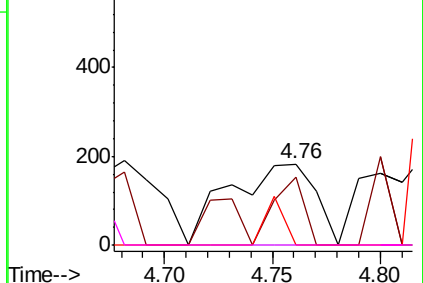


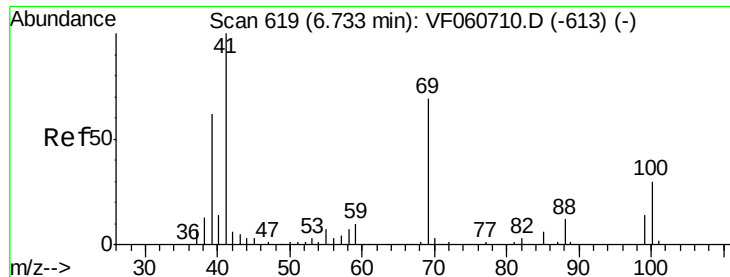
Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

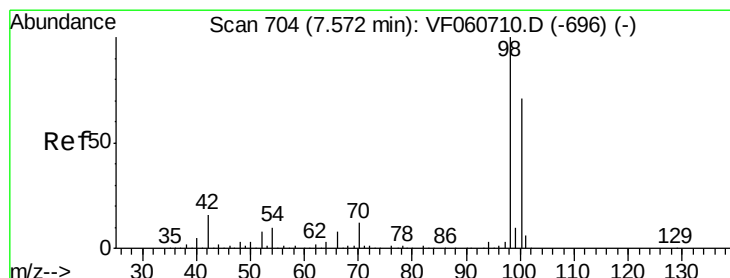
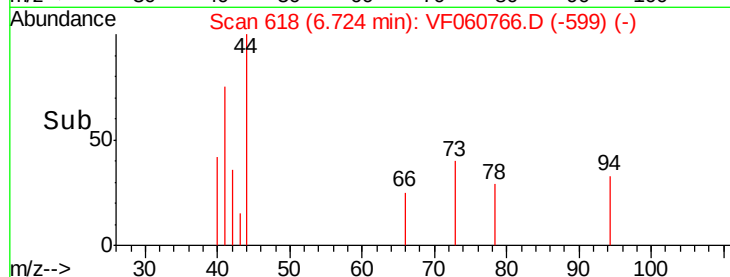
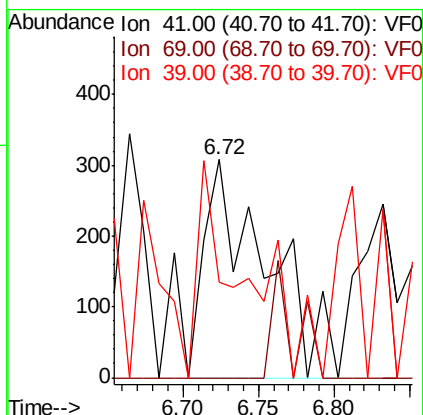
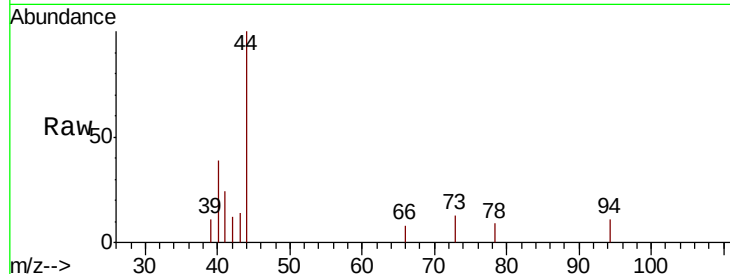




#48
Methyl methacrylate
Concen: 1.770 ug/l
RT: 6.72 min Scan# 618
Delta R.T. -0.01 min
Lab File: VF060766.D
Acq: 16 Nov 2018 16:01

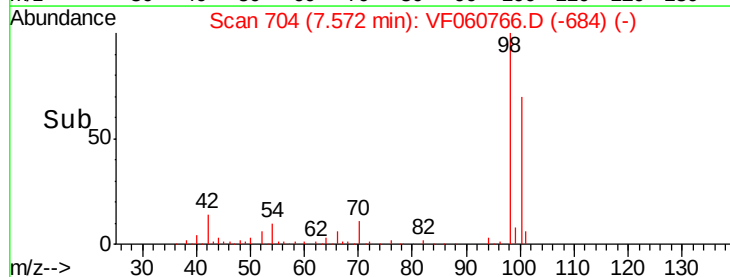
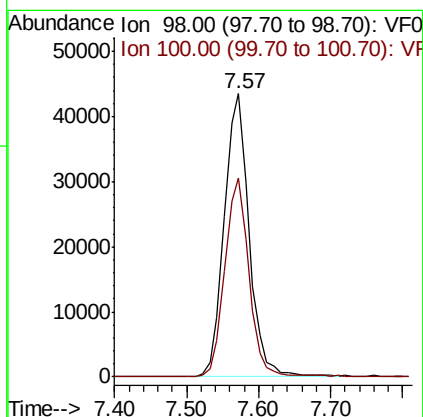
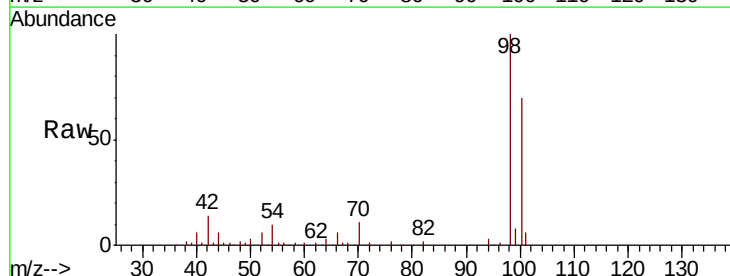
Instrument :
MSVOA_F
ClientSampleId :
CL-01-111418-DRE

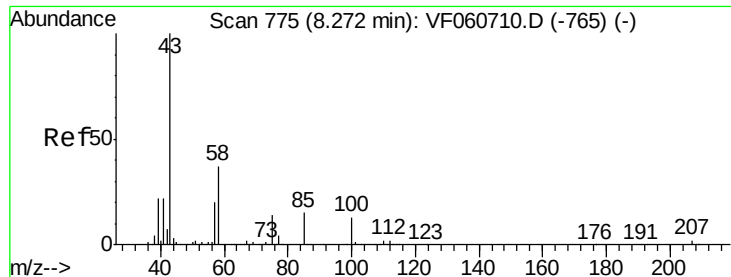
Tot Ion: 41 Resp: 887
Ion Ratio Lower Upper
41 100
69 0.0 54.9 82.3#
39 43.8 49.6 74.4#



#50
Toluene-d8
Concen: 39.981 ug/l
RT: 7.57 min Scan# 704
Delta R.T. 0.00 min
Lab File: VF060766.D
Acq: 16 Nov 2018 16:01

Tgt Ion: 98 Resp: 104026
Ion Ratio Lower Upper
98 100
100 70.2 56.5 84.7





#51

4-Methyl-2-Pentanone

Concen: 5.451 ug/l

RT: 8.29 min Scan# 777

Delta R.T. 0.02 min

Lab File: VF060766.D

Acq: 16 Nov 2018 16:01

Instrument :

MSVOA_F

ClientSampleId :

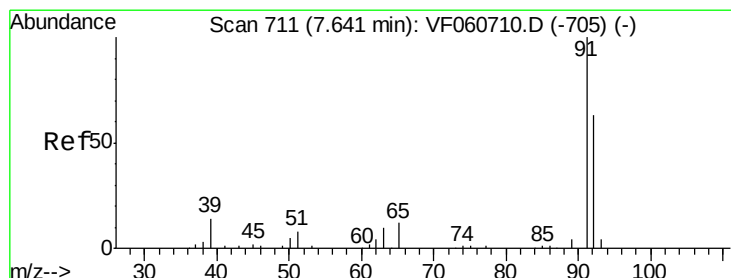
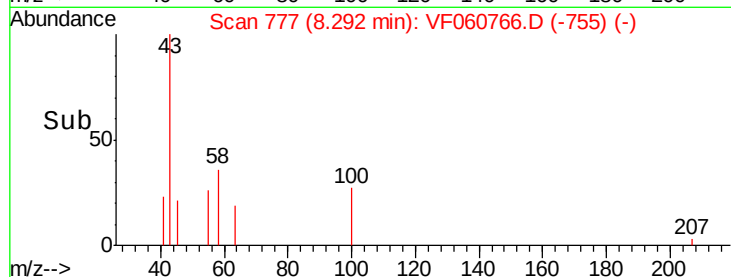
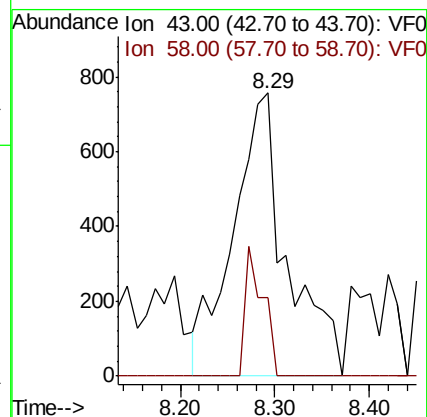
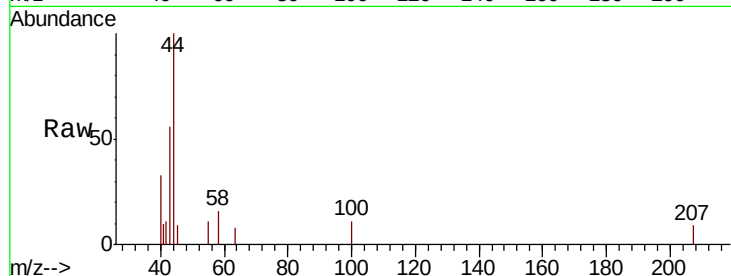
CL-01-111418-DRE

Tot Ion: 43 Resp: 2985

Ion Ratio Lower Upper

43 100

58 27.9 29.2 43.8#



#58

2-Chloroethyl Vinyl ether

Concen: 1.147 ug/l

RT: 7.57 min Scan# 704

Delta R.T. -0.07 min

Lab File: VF060766.D

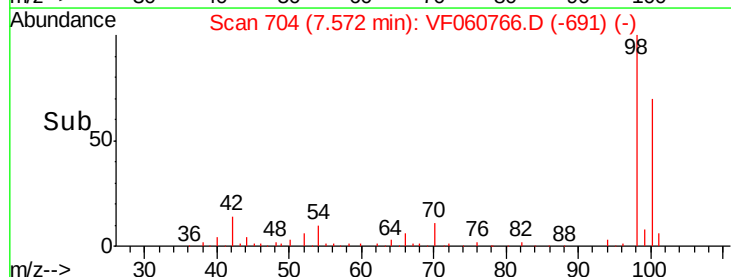
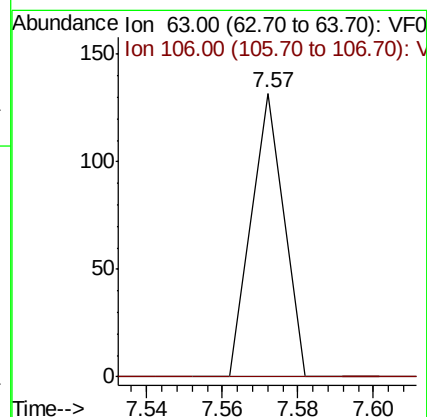
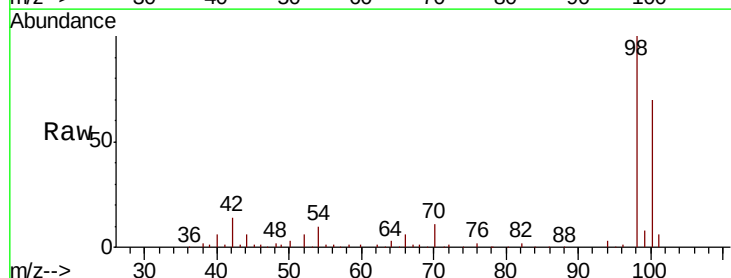
Acq: 16 Nov 2018 16:01

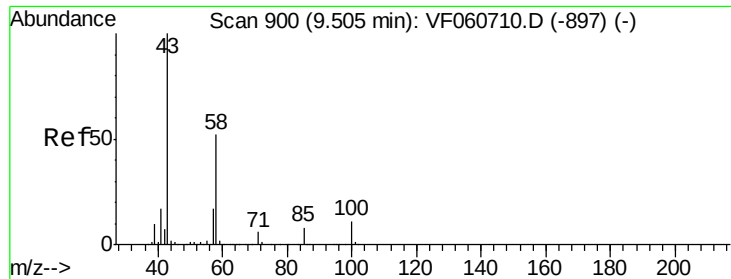
Tgt Ion: 63 Resp: 78

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

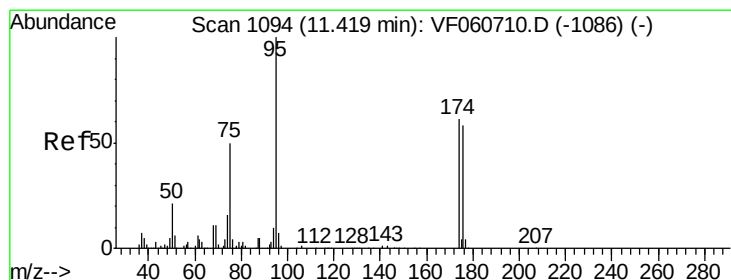
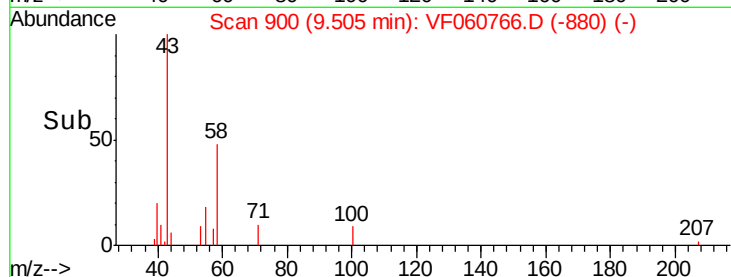
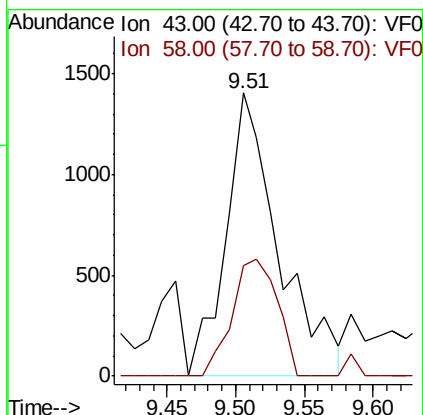
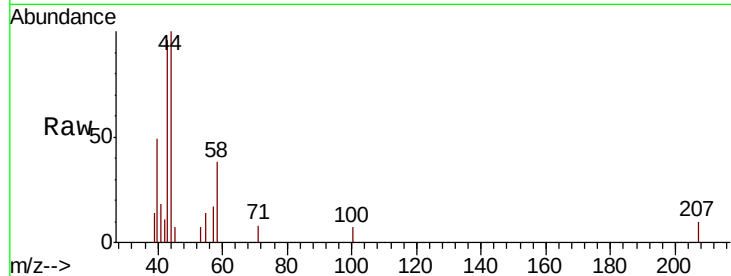




#59
2-Hexanone
Concen: 9.778 ug/l
RT: 9.51 min Scan# 900
Delta R.T. 0.00 min
Lab File: VF060766.D
Acq: 16 Nov 2018 16:01

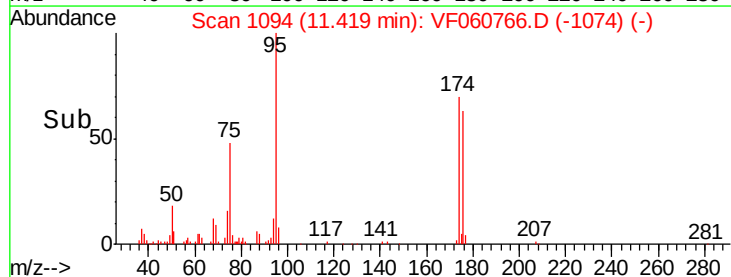
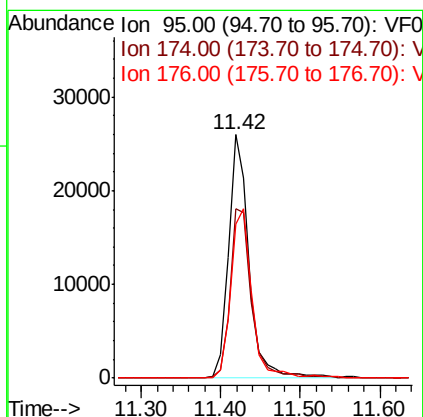
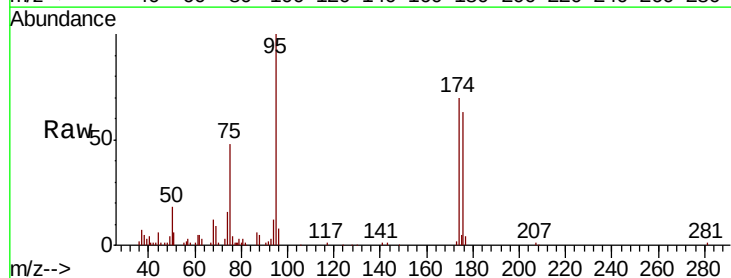
Instrument :
MSVOA_F
ClientSampleId :
CL-01-111418-DRE

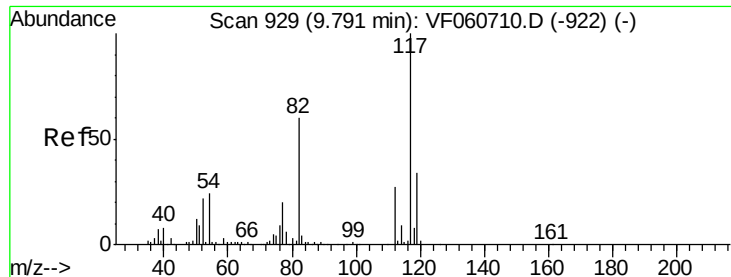
Tot Ion: 43 Resp: 3763
Ion Ratio Lower Upper
43 100
58 39.2 24.9 74.7



#62
4-Bromofluorobenzene
Concen: 39.118 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. 0.00 min
Lab File: VF060766.D
Acq: 16 Nov 2018 16:01

Tgt Ion: 95 Resp: 47124
Ion Ratio Lower Upper
95 100
174 69.7 0.0 121.6
176 63.1 0.0 115.2

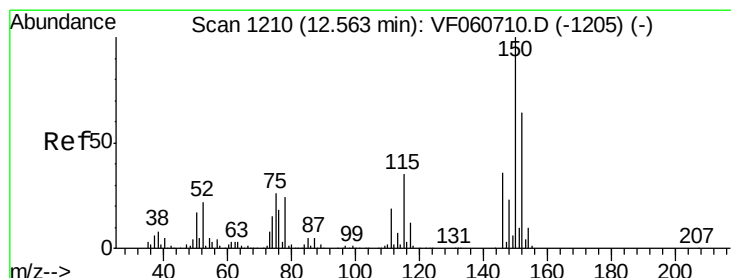
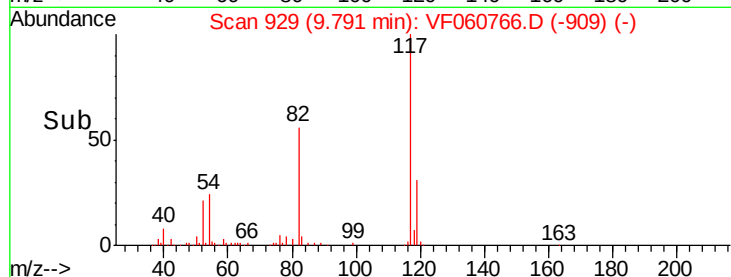
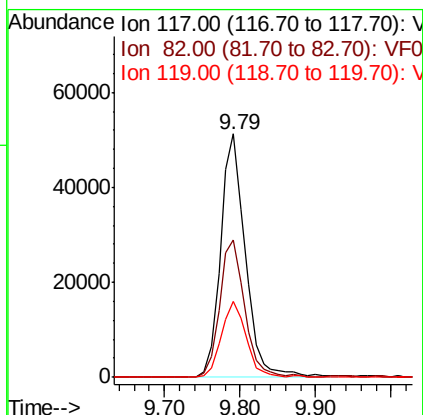
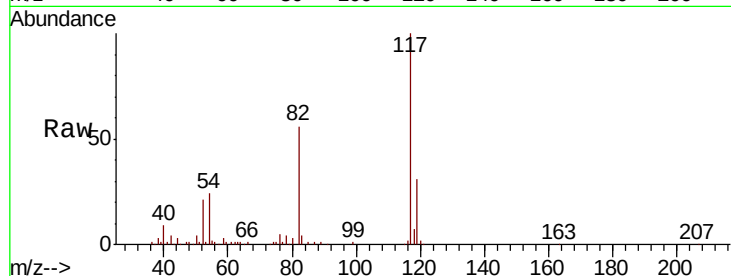




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 929
Delta R.T. 0.00 min
Lab File: VF060766.D
Acq: 16 Nov 2018 16:01

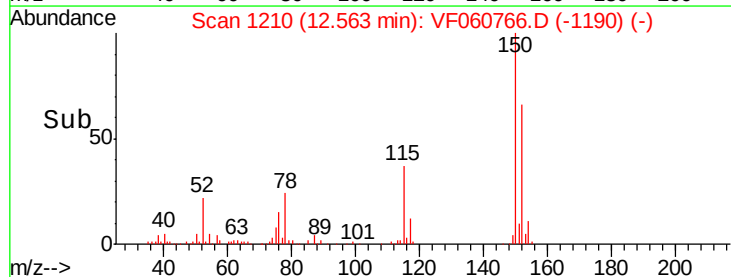
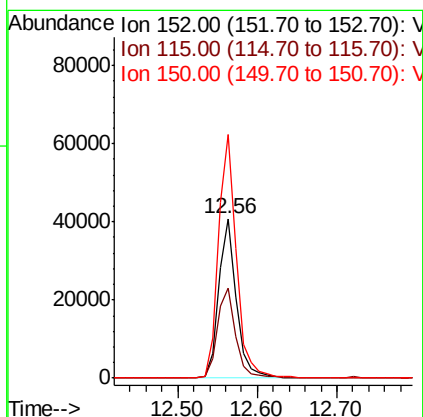
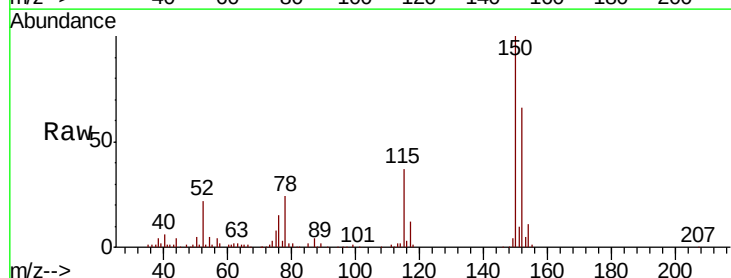
Instrument :
MSVOA_F
ClientSampleId :
CL-01-111418-DRE

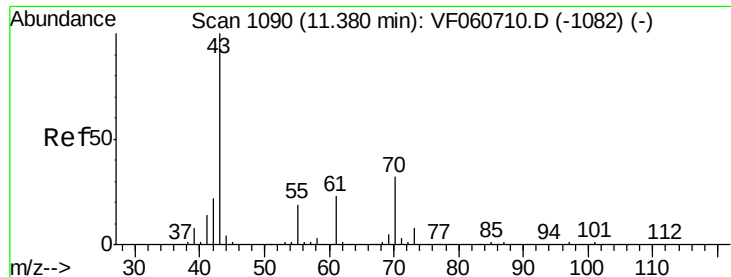
Tot Ion:117 Resp: 116578
Ion Ratio Lower Upper
117 100
82 56.2 47.9 71.9
119 31.4 26.8 40.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.56 min Scan# 1210
Delta R.T. 0.00 min
Lab File: VF060766.D
Acq: 16 Nov 2018 16:01

Tgt Ion:152 Resp: 64285
Ion Ratio Lower Upper
152 100
115 56.5 27.9 83.7
150 152.5 0.0 316.4





#74
N-amvl acetate
Concen: 1.874 ug/l
RT: 11.38 min Scan# 1090
Delta R.T. 0.00 min
Lab File: VF060766.D
Acq: 16 Nov 2018 16:01

Instrument :
MSVOA_F
ClientSampleId :
CL-01-111418-DRE

Tot Ion:	43	Resp:	2208
Ion	Ratio	Lower	Upper
43	100		
70	36.6	25.5	38.3
55	28.3	14.9	22.3#
61	0.0	18.6	27.8#

