

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121118\
 Data File : VF060982.D
 Acq On : 11 Dec 2018 17:58
 Operator : VA/AP
 Sample : J6193-09RE
 Misc : 6.33g/5mL/MSVOA-F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 CL-01-121018-E

Quant Time: Dec 12 06:28:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

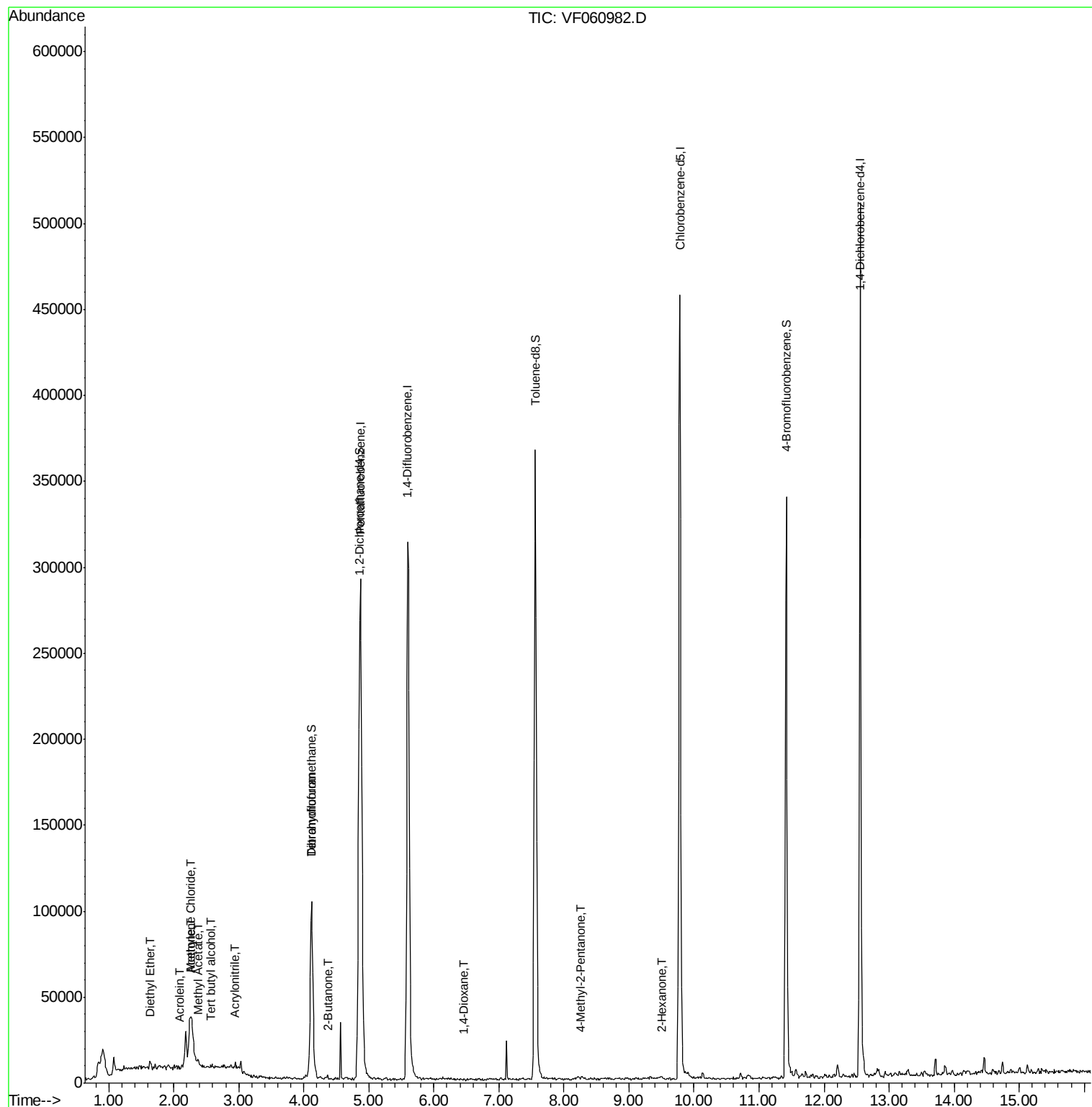
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	213093	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.60	114	350275	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.78	117	312572	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.55	152	118412	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.85	65	117955	46.99	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	93.98%	
35) Dibromofluoromethane	4.12	113	94749	34.10	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	68.20%	
50) Toluene-d8	7.56	98	301246	36.80	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	73.60%	
62) 4-Bromofluorobenzene	11.42	95	131561	35.36	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	70.72%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	1.64	74	1160	1.944	ug/l	64
11) Tert butyl alcohol	2.57	59	165	1.603	ug/l #	1
13) Acrolein	2.09	56	426	4.369	ug/l	95
15) Acrylonitrile	2.95	53	407	1.764	ug/l #	32
16) Acetone	2.24	43	18302	39.536	ug/l	98
18) Methyl Acetate	2.36	43	4321	4.046	ug/l #	79
20) Methylene Chloride	2.27	84	22556	13.282	ug/l	90
25) 2-Butanone	4.37	43	2795	3.491	ug/l	98
29) Tetrahydrofuran	4.11	42	1787	5.265	ug/l #	45
41) Methacrylonitrile	4.73	41	239	Below Cal	#	23
43) Isopropyl Acetate	6.92	43	754	Below Cal	#	49
49) 1,4-Dioxane	6.45	88	67	6.406	ug/l #	17
51) 4-Methyl-2-Pentanone	8.27	43	1964	1.349	ug/l #	77
59) 2-Hexanone	9.51	43	2386	2.336	ug/l #	60
95) Naphthalene	14.47	128	3528	Below Cal	#	91

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 27 01:36:26 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.03 min

Lab File: VF060982.D

Acq: 11 Dec 2018 17:58

Instrument :

MSVOA_F

ClientSampleId :

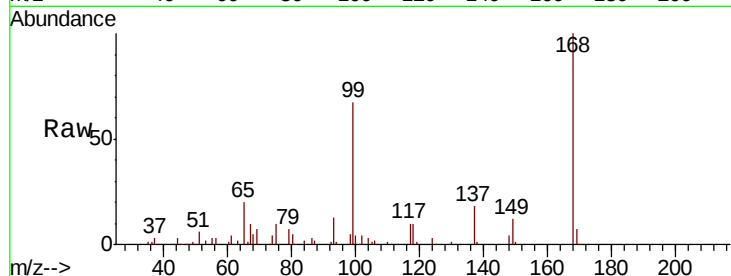
CL-01-121018-E

Tot Ion:168 Resp: 213093

Ion Ratio Lower Upper

168 100

99 66.5 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

60000

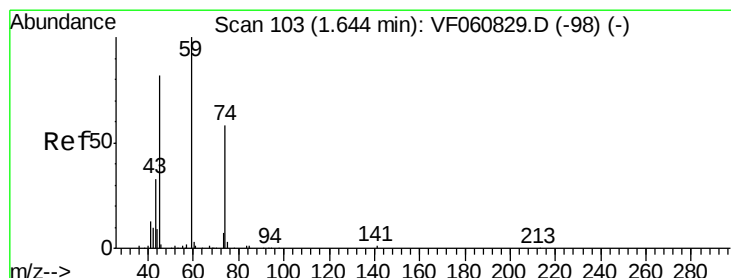
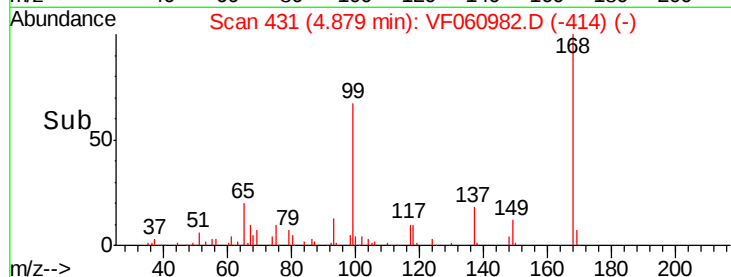
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#8

Diethyl Ether

Concen: 1.944 ug/l

RT: 1.64 min Scan# 103

Delta R.T. -0.00 min

Lab File: VF060982.D

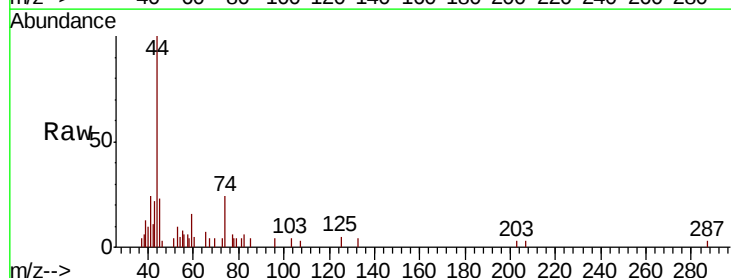
Acq: 11 Dec 2018 17:58

Tgt Ion: 74 Resp: 1160

Ion Ratio Lower Upper

74 100

45 98.1 71.0 212.8



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

1500

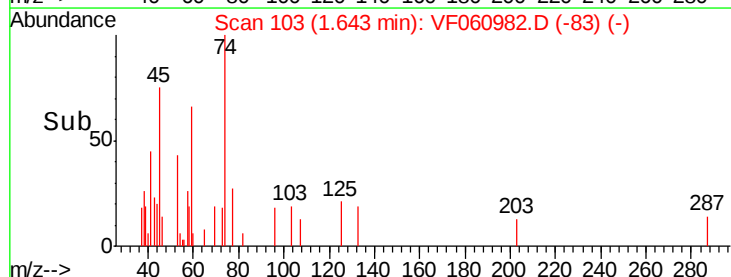
1000

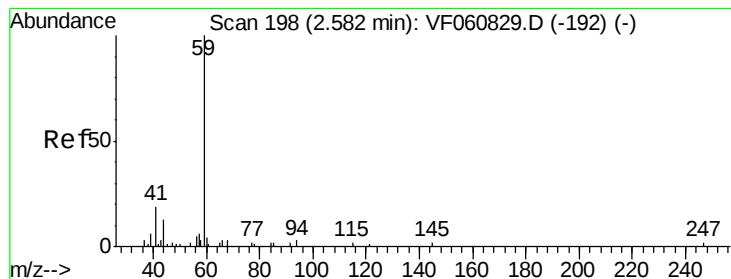
500

0

Time-->

1.60 1.65 1.70



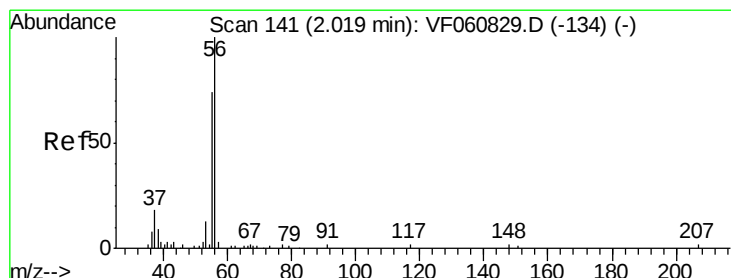
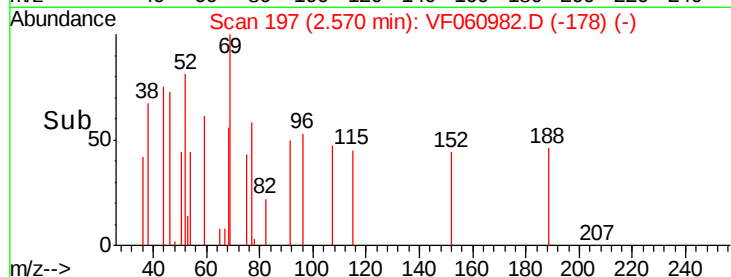
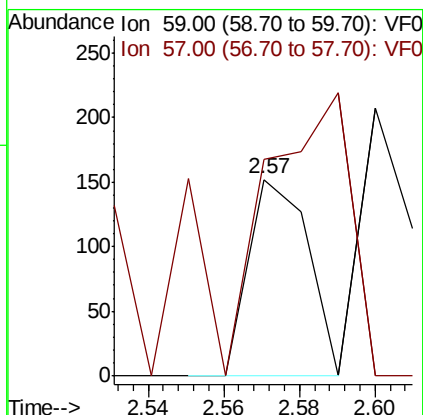
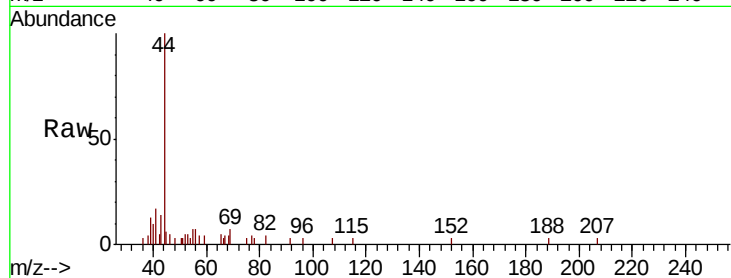


#11

Tert butyl alcohol
Concen: 1.603 ug/l
RT: 2.57 min Scan# 197
Delta R.T. -0.01 min
Lab File: VF060982.D
Acq: 11 Dec 2018 17:58

Instrument :
MSVOA_F
ClientSampleId :
CL-01-121018-E

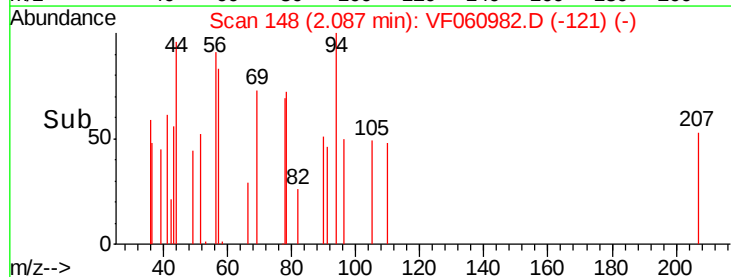
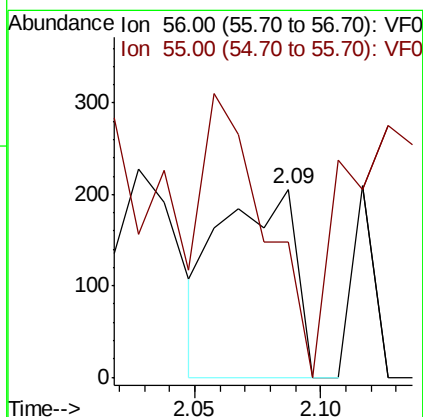
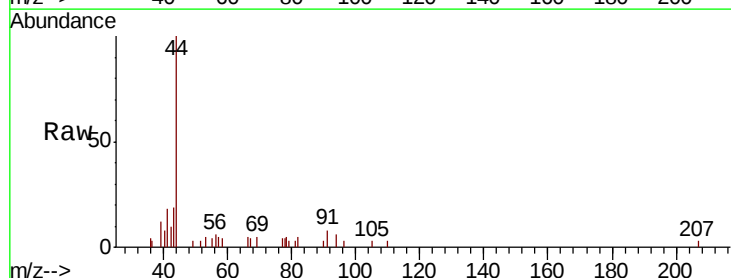
Tot Ion: 59 Resp: 165
Ion Ratio Lower Upper
59 100
57 110.5 12.7 19.1#

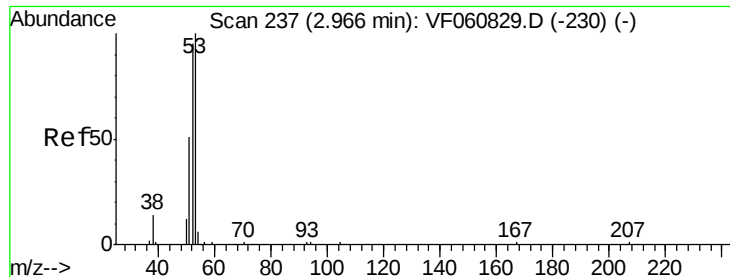


#13

Acrolein
Concen: 4.369 ug/l
RT: 2.09 min Scan# 148
Delta R.T. 0.07 min
Lab File: VF060982.D
Acq: 11 Dec 2018 17:58

Tgt Ion: 56 Resp: 426
Ion Ratio Lower Upper
56 100
55 71.8 61.2 91.8





#15

Acrylonitrile

Concen: 1.764 ug/l

RT: 2.95 min Scan# 235

Delta R.T. -0.02 min

Lab File: VF060982.D

Acq: 11 Dec 2018 17:58

Instrument :

MSVOA_F

ClientSampleId :

CL-01-121018-E

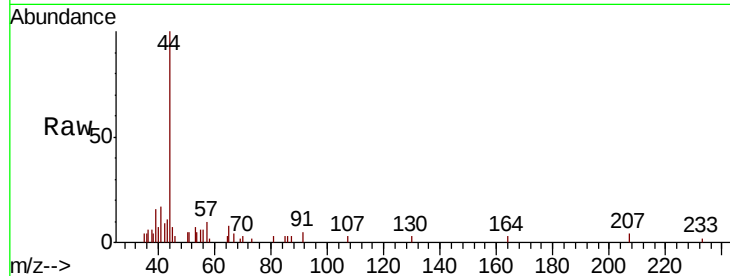
Tot Ion: 53 Resp: 407

Ion Ratio Lower Upper

53 100

52 0.0 76.5 114.7#

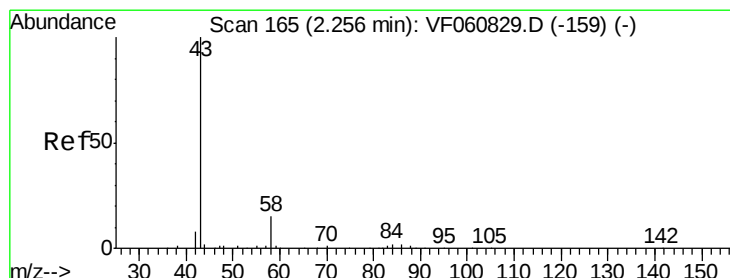
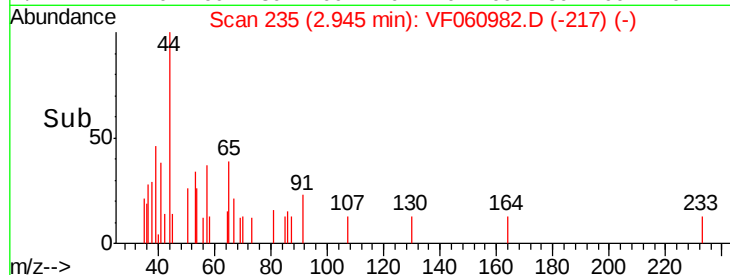
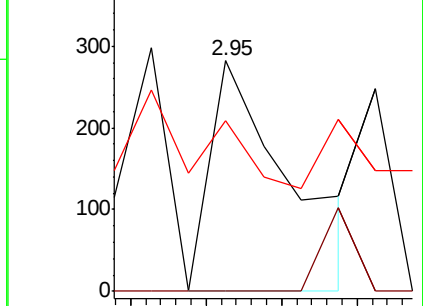
51 42.2 40.7 61.1



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 39.536 ug/l

RT: 2.24 min Scan# 164

Delta R.T. -0.01 min

Lab File: VF060982.D

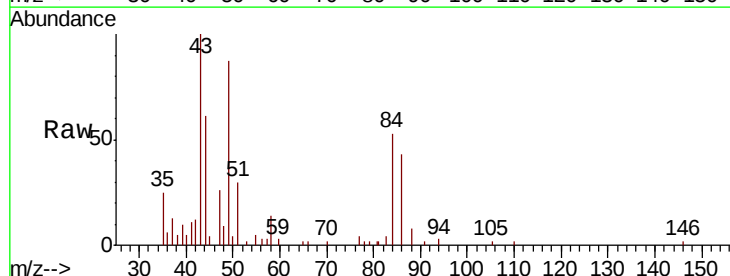
Acq: 11 Dec 2018 17:58

Tgt Ion: 43 Resp: 18302

Ion Ratio Lower Upper

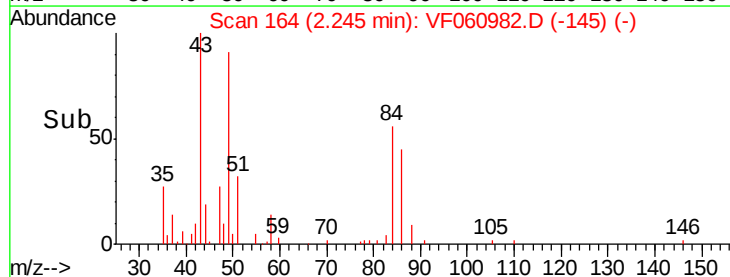
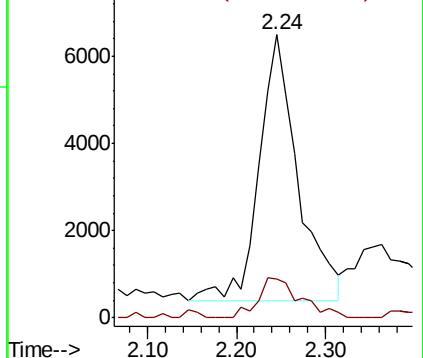
43 100

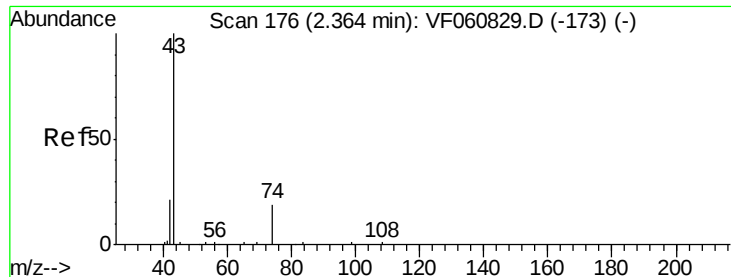
58 13.5 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

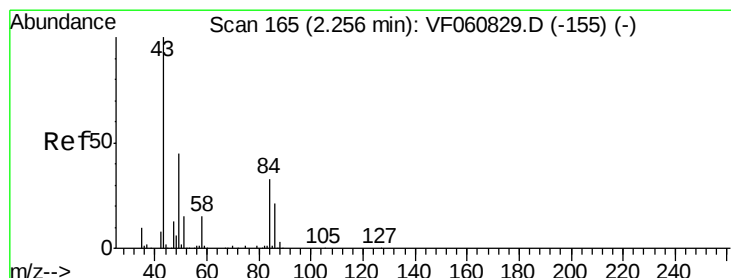
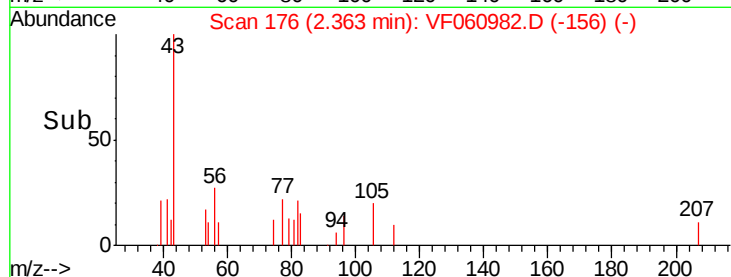
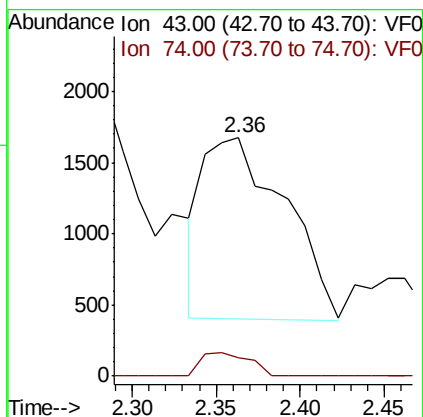
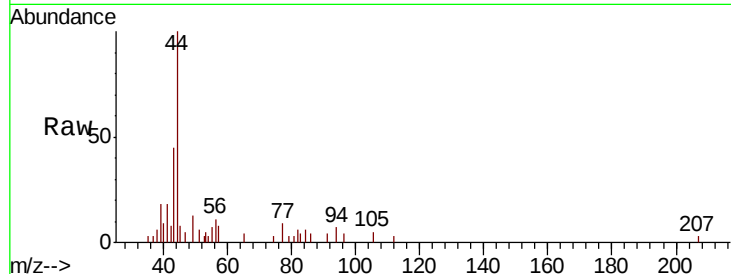




#18
Methvl Acetate
Concen: 4.046 ug/l
RT: 2.36 min Scan# 176
Delta R.T. -0.00 min
Lab File: VF060982.D
Acq: 11 Dec 2018 17:58

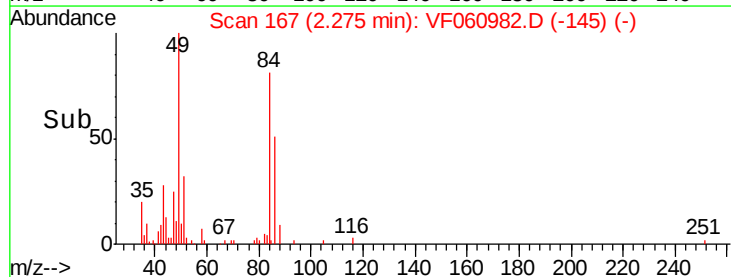
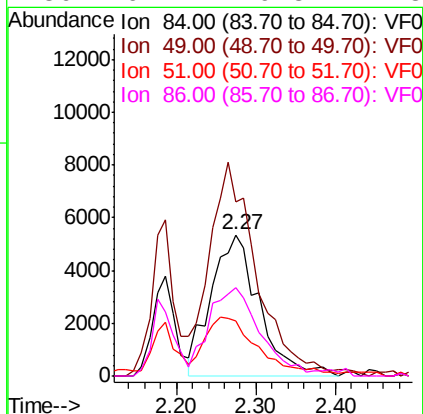
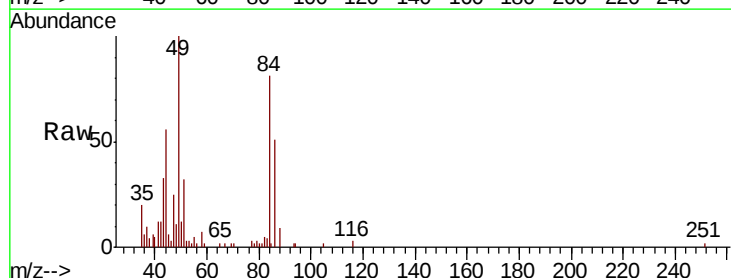
Instrument :
MSVOA_F
ClientSampleId :
CL-01-121018-E

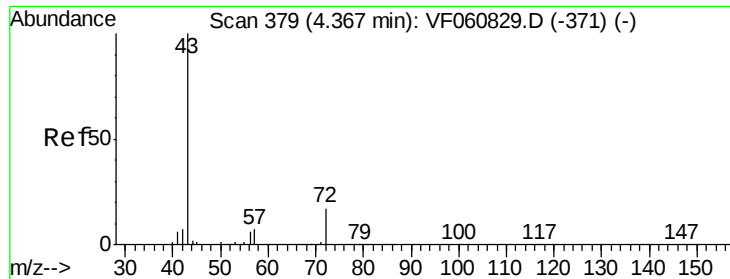
Tot Ion: 43 Resp: 4321
Ion Ratio Lower Upper
43 100
74 7.5 13.3 19.9#



#20
Methylene Chloride
Concen: 13.282 ug/l
RT: 2.27 min Scan# 167
Delta R.T. 0.02 min
Lab File: VF060982.D
Acq: 11 Dec 2018 17:58

Tgt Ion: 84 Resp: 22556
Ion Ratio Lower Upper
84 100
49 122.8 111.3 166.9
51 39.3 38.0 57.0
86 62.4 49.8 74.8





#25

2-Butanone

Concen: 3.491 ug/l

RT: 4.37 min Scan# 379

Delta R.T. -0.00 min

Lab File: VF060982.D

Acq: 11 Dec 2018 17:58

Instrument :

MSVOA_F

ClientSampleId :

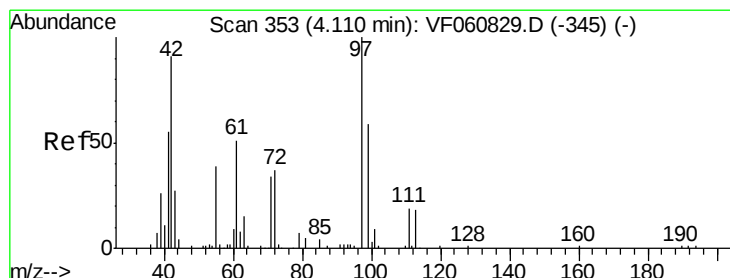
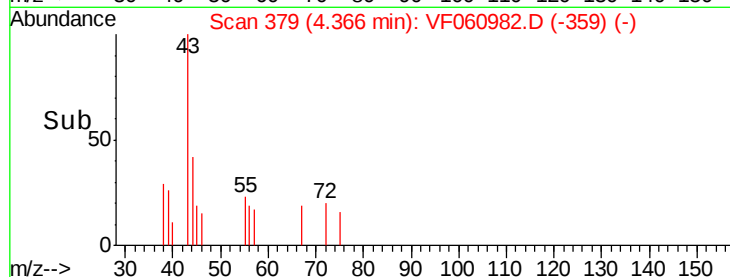
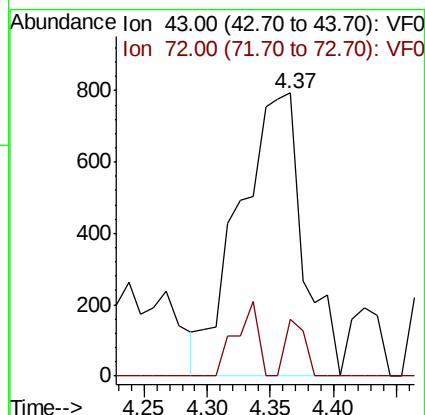
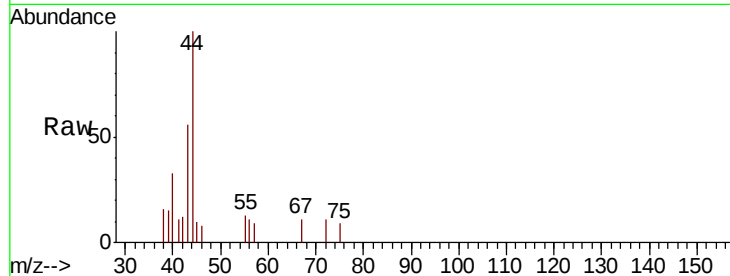
CL-01-121018-E

Tot Ion: 43 Resp: 2795

Ion Ratio Lower Upper

43 100

72 20.2 15.4 23.2



#29

Tetrahydrofuran

Concen: 5.265 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.00 min

Lab File: VF060982.D

Acq: 11 Dec 2018 17:58

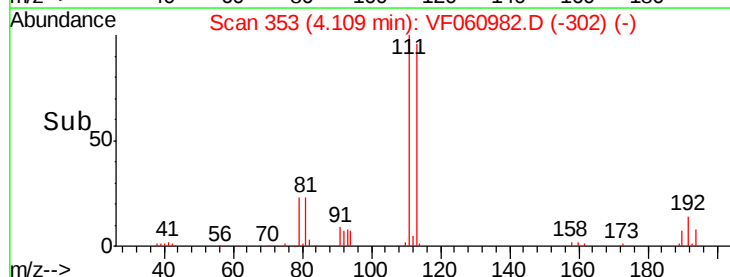
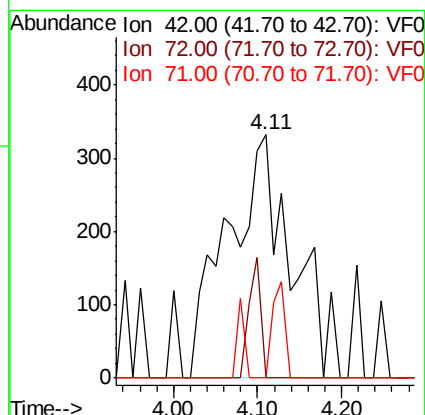
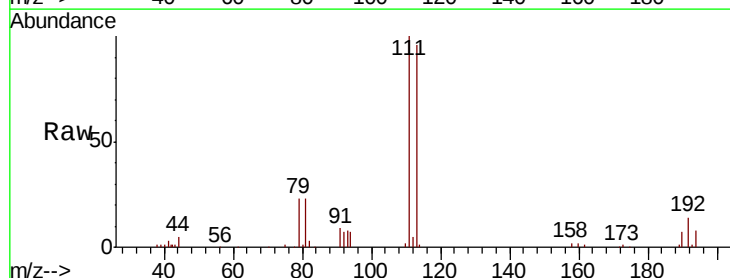
Tgt Ion: 42 Resp: 1787

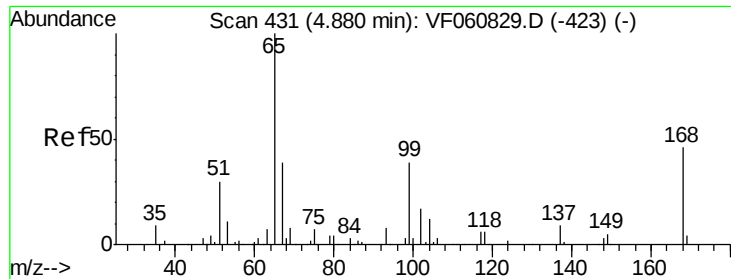
Ion Ratio Lower Upper

42 100

72 8.9 31.9 47.9#

71 0.0 28.7 43.1#





#33

1,2-Dichloroethane-d4

Concen: 46.988 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.03 min

Lab File: VF060982.D

Acq: 11 Dec 2018 17:58

Instrument :

MSVOA_F

ClientSampleId :

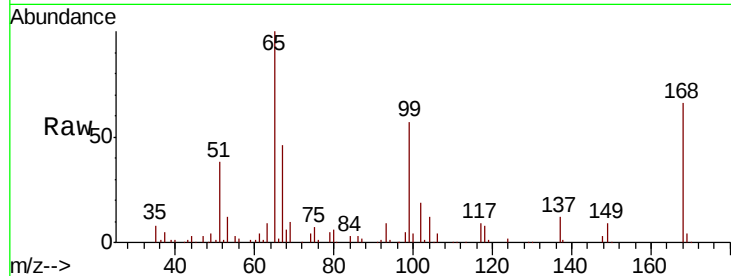
CL-01-121018-E

Tot Ion: 65 Resp: 117955

Ion Ratio Lower Upper

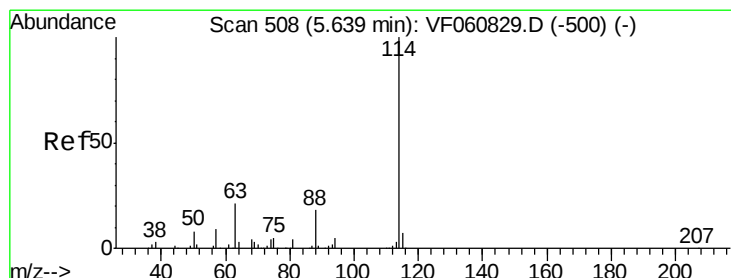
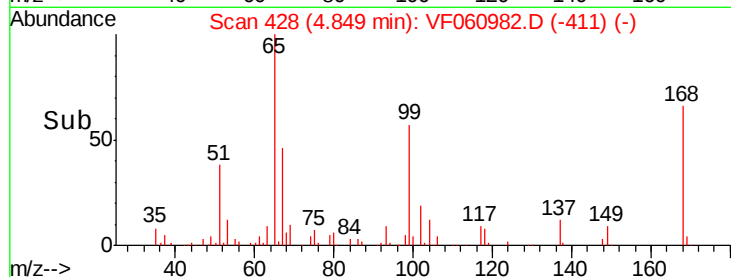
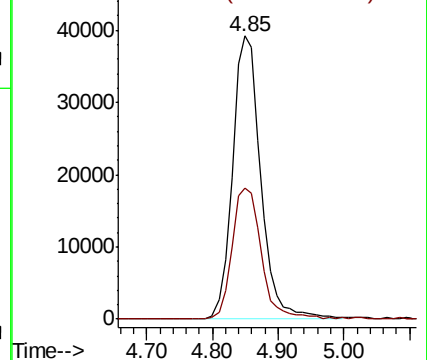
65 100

67 46.3 0.0 96.4



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. -0.04 min

Lab File: VF060982.D

Acq: 11 Dec 2018 17:58

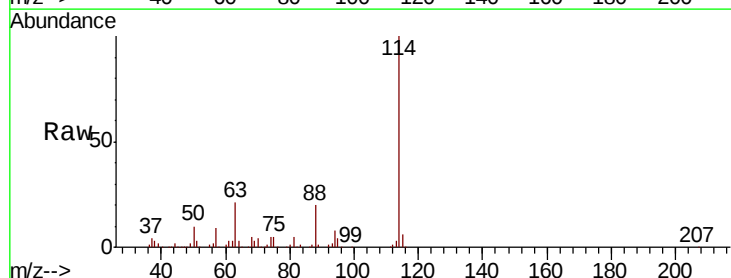
Tgt Ion: 114 Resp: 350275

Ion Ratio Lower Upper

114 100

63 20.9 0.0 41.6

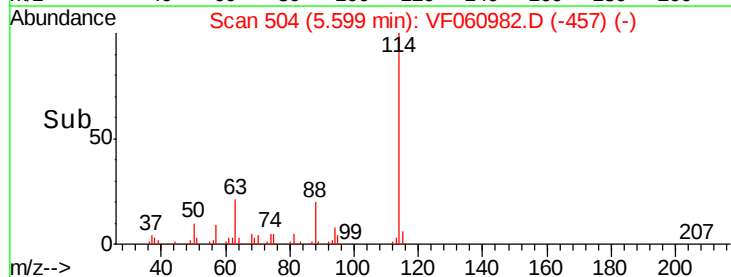
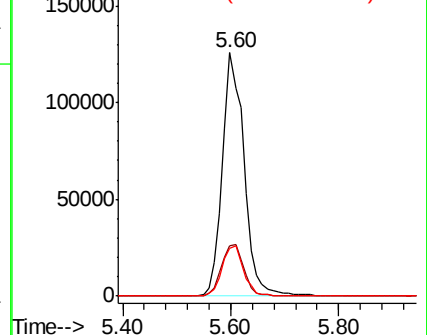
88 19.6 0.0 36.6

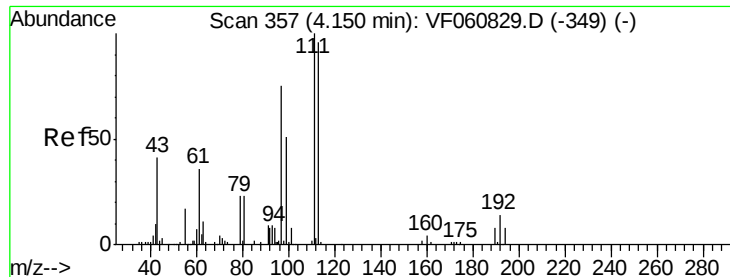


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

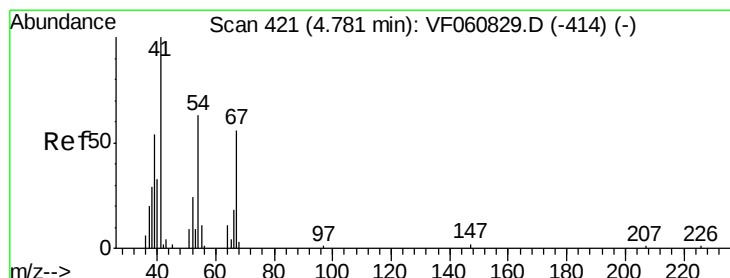
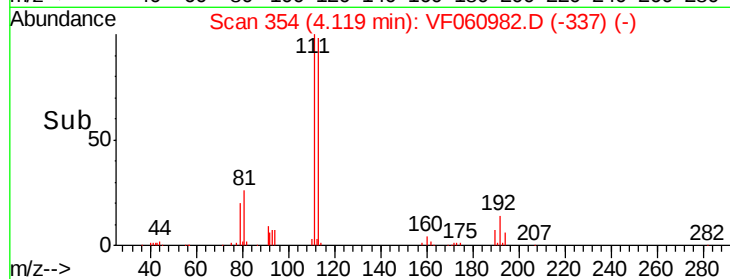
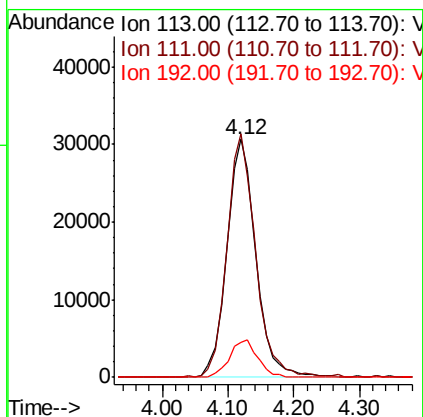
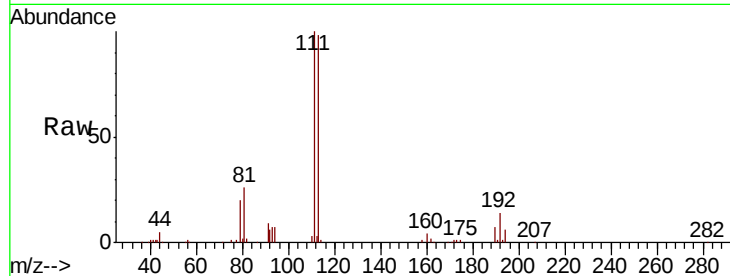




#35
Dibromofluoromethane
Concen: 34.097 ug/l
RT: 4.12 min Scan# 354
Delta R.T. -0.03 min
Lab File: VF060982.D
Acq: 11 Dec 2018 17:58

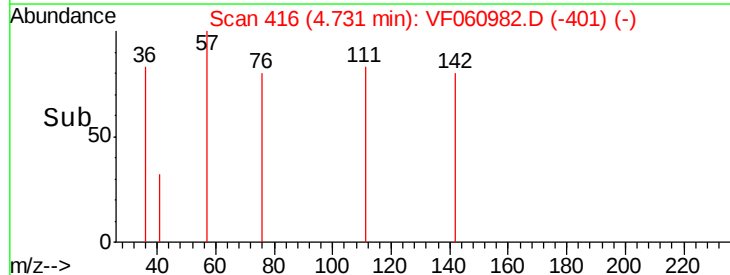
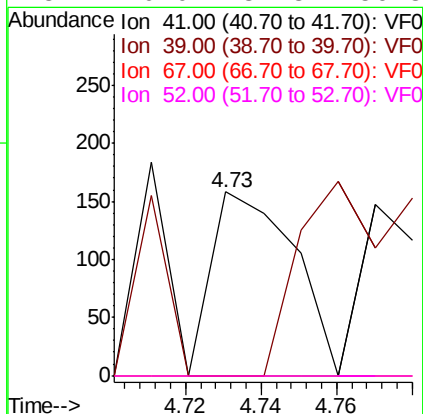
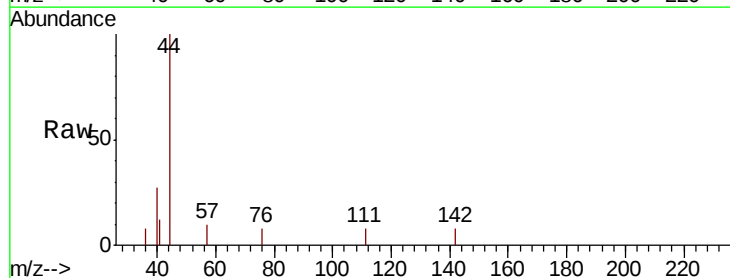
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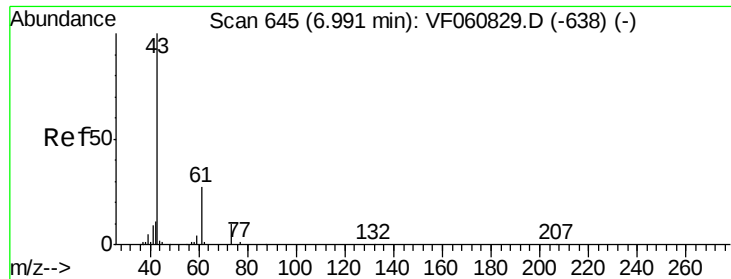
Tot Ion:113 Resp: 94749
Ion Ratio Lower Upper
113 100
111 102.2 83.0 124.6
192 14.7 12.3 18.5



#41
Methacrylonitrile
Concen: Below Cal
RT: 4.73 min Scan# 416
Delta R.T. -0.05 min
Lab File: VF060982.D
Acq: 11 Dec 2018 17:58

Tgt Ion: 41 Resp: 239
Ion Ratio Lower Upper
41 100
39 0.0 53.0 79.6#
67 0.0 43.8 65.6#
52 0.0 37.8 56.8#



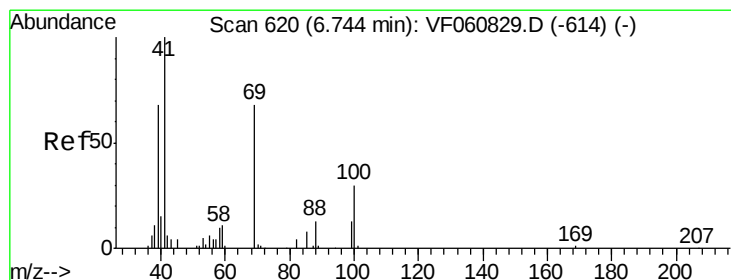
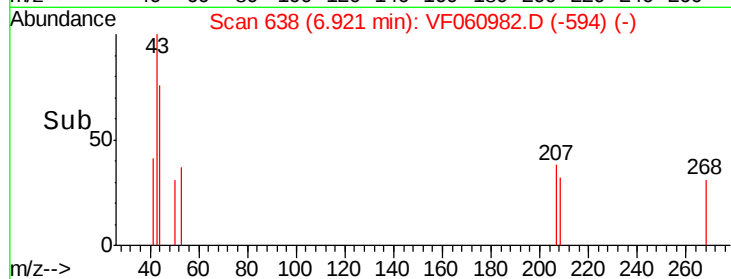
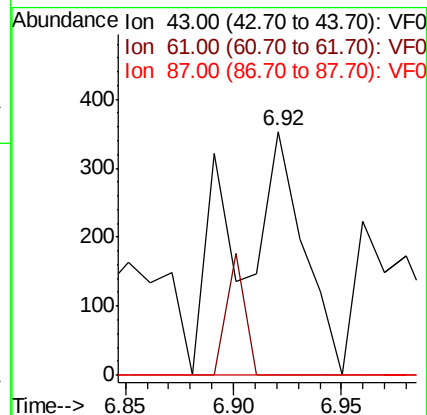
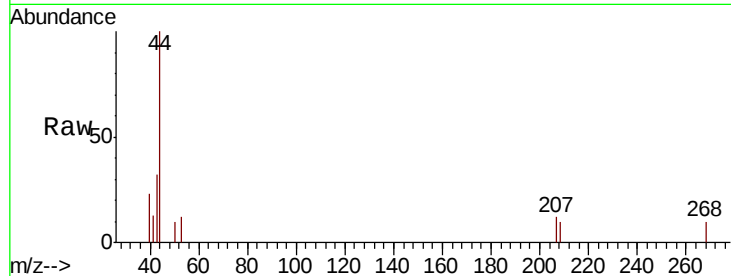


#43

Isopropyl Acetate
 Concen: Below Cal
 RT: 6.92 min Scan# 638
 Delta R.T. -0.07 min
 Lab File: VF060982.D
 Acq: 11 Dec 2018 17:58

Instrument :
 MSVOA_F
 ClientSampleId :
 CL-01-121018-E

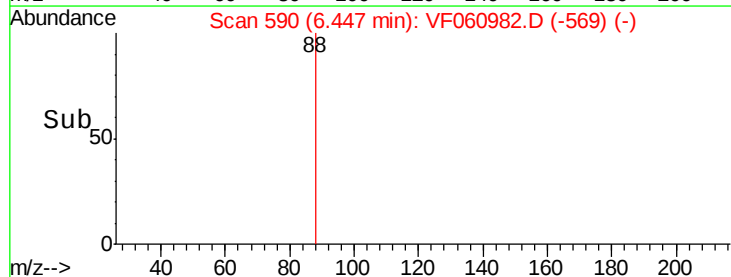
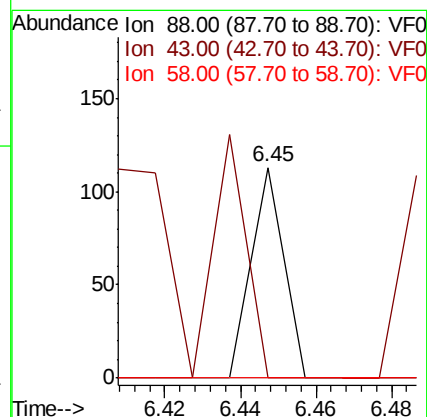
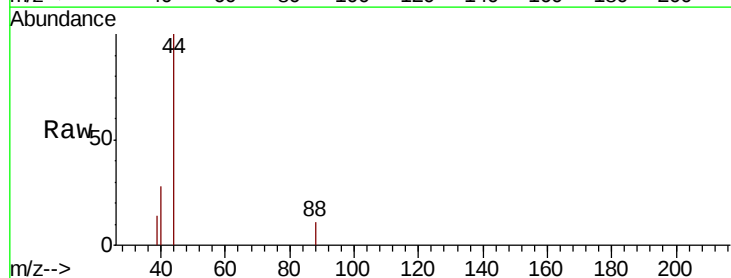
Tot Ion: 43 Resp: 754
 Ion Ratio Lower Upper
 43 100
 61 0.0 21.4 32.0#
 87 0.0 0.2 0.4#

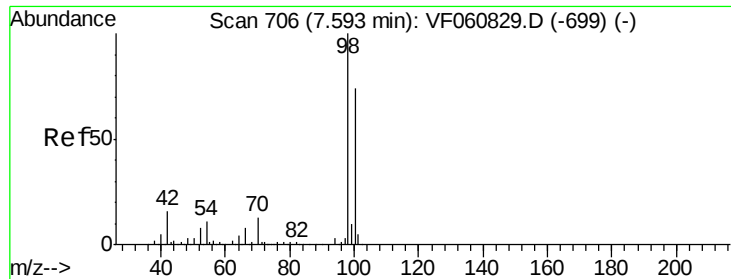


#49

1,4-Dioxane
 Concen: 6.406 ug/l
 RT: 6.45 min Scan# 590
 Delta R.T. -0.30 min
 Lab File: VF060982.D
 Acq: 11 Dec 2018 17:58

Tgt Ion: 88 Resp: 67
 Ion Ratio Lower Upper
 88 100
 43 0.0 42.0 63.0#
 58 0.0 61.8 92.8#





#50

Toluene-d8

Concen: 36.802 ug/l

RT: 7.56 min Scan# 703

Delta R.T. -0.03 min

Lab File: VF060982.D

Acq: 11 Dec 2018 17:58

Instrument :

MSVOA_F

ClientSampleId :

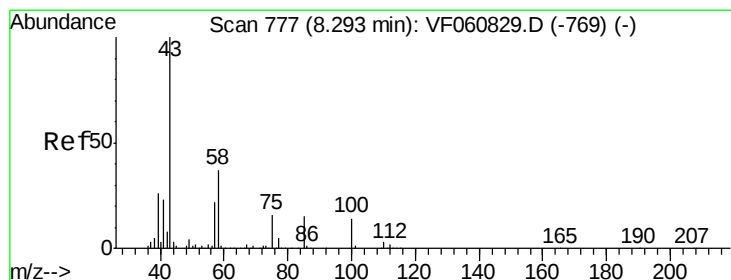
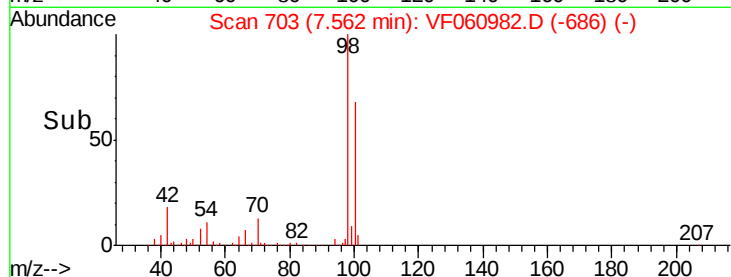
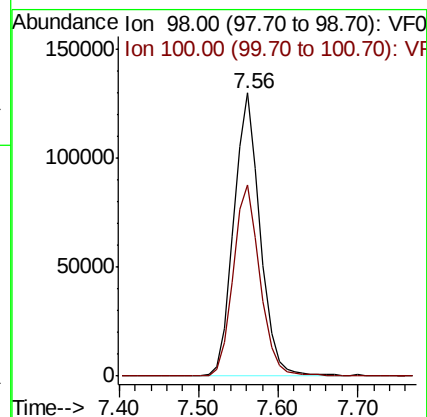
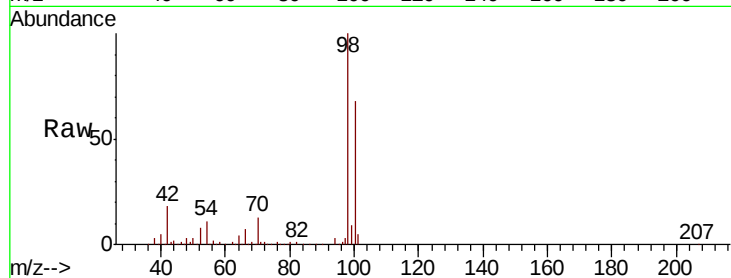
CL-01-121018-E

Tot Ion: 98 Resp: 301246

Ion Ratio Lower Upper

98 100

100 67.6 59.3 88.9



#51

4-Methyl-2-Pentanone

Concen: 1.349 ug/l

RT: 8.27 min Scan# 775

Delta R.T. -0.02 min

Lab File: VF060982.D

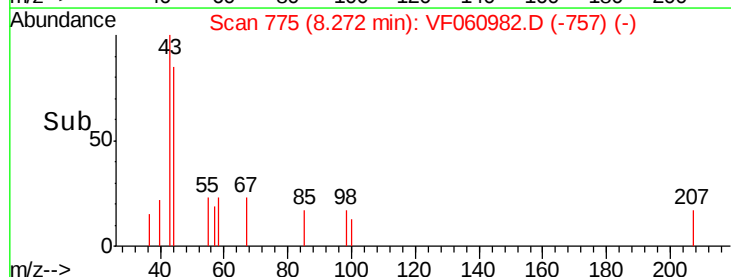
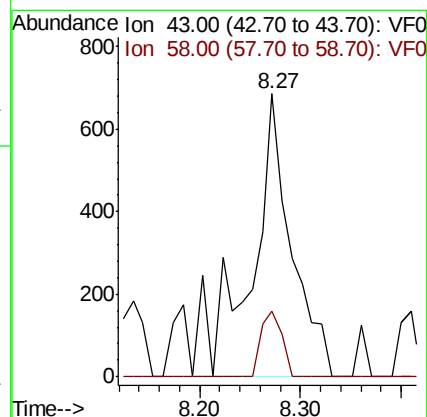
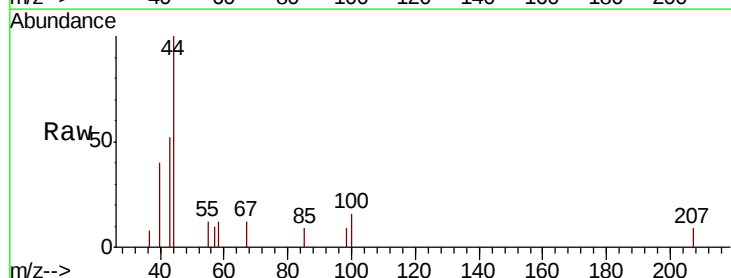
Acq: 11 Dec 2018 17:58

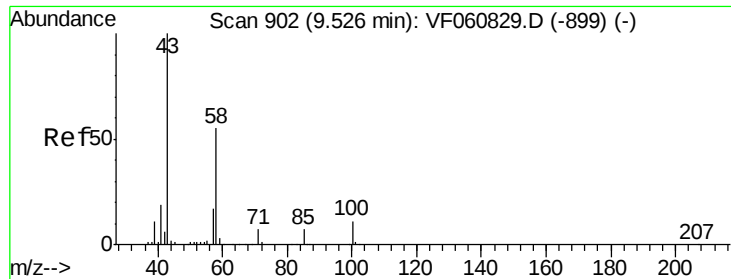
Tgt Ion: 43 Resp: 1964

Ion Ratio Lower Upper

43 100

58 23.3 29.7 44.5#

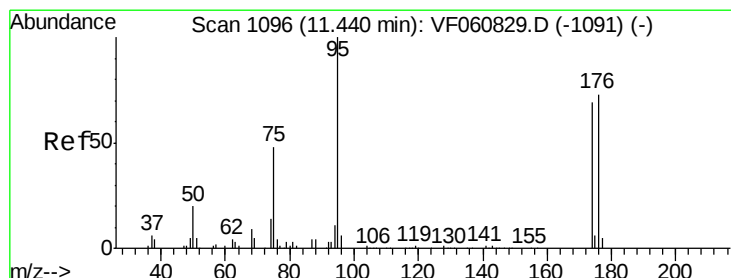
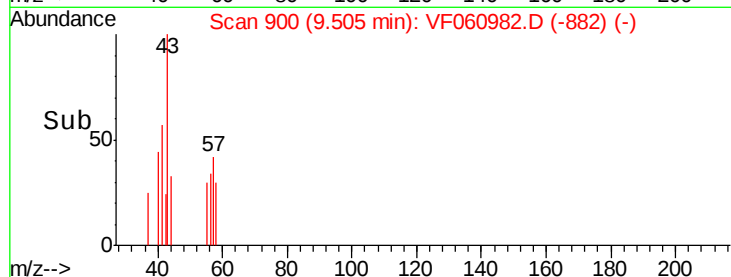
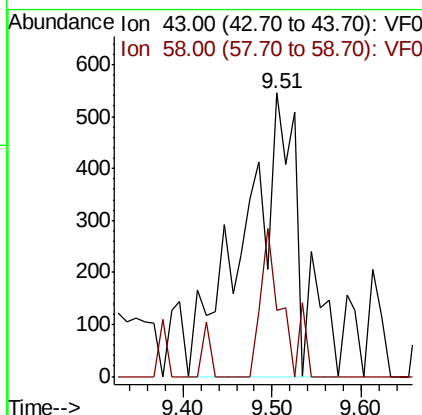
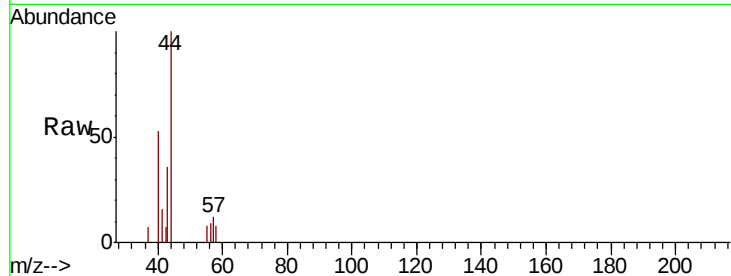




#59
2-Hexanone
Concen: 2.336 ug/l
RT: 9.51 min Scan# 900
Delta R.T. -0.02 min
Lab File: VF060982.D
Acq: 11 Dec 2018 17:58

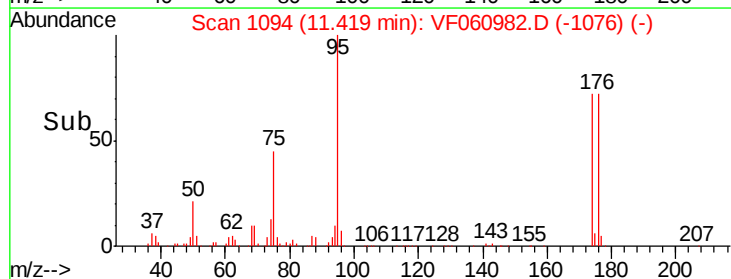
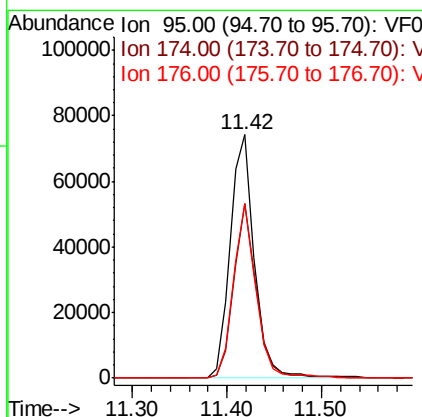
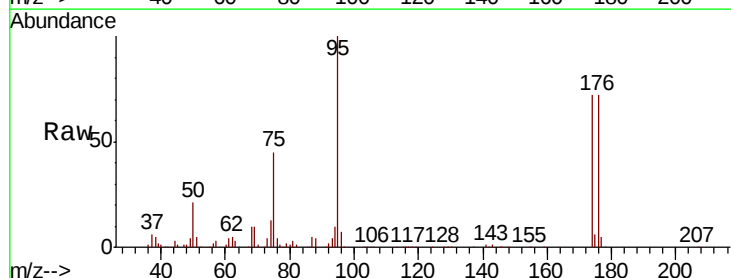
Instrument :
MSVOA_F
ClientSampleId :
CL-01-121018-E

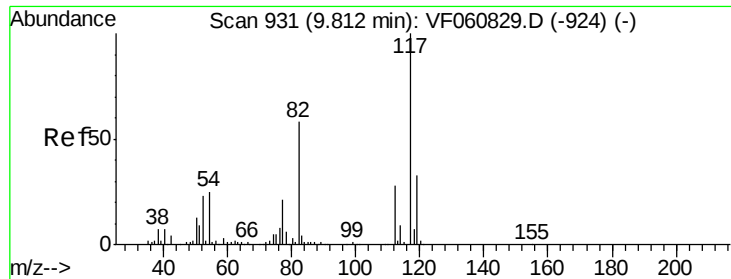
Tot Ion: 43 Resp: 2386
Ion Ratio Lower Upper
43 100
58 23.5 25.6 76.6#



#62
4-Bromofluorobenzene
Concen: 35.364 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. -0.02 min
Lab File: VF060982.D
Acq: 11 Dec 2018 17:58

Tgt Ion: 95 Resp: 131561
Ion Ratio Lower Upper
95 100
174 71.8 0.0 138.2
176 71.8 0.0 146.2

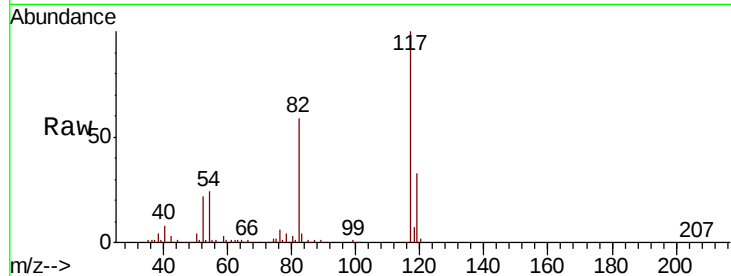




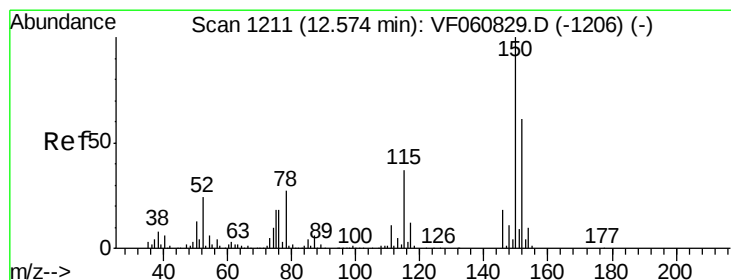
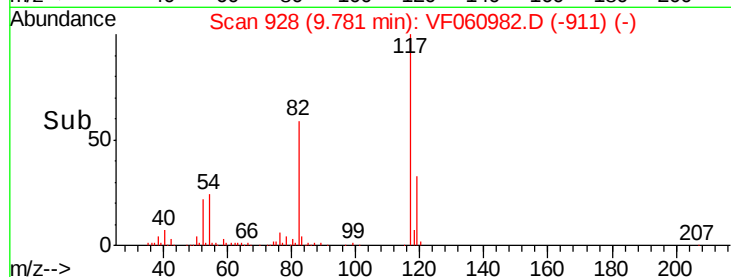
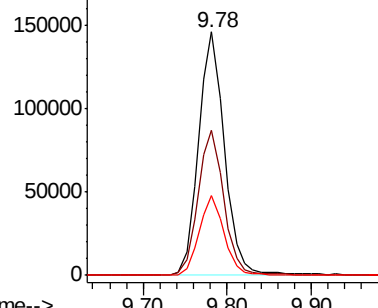
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.03 min
Lab File: VF060982.D
Acq: 11 Dec 2018 17:58

Instrument :
MSVOA_F
ClientSampleId :
CL-01-121018-E

Tot Ion:117 Resp: 312572
Ion Ratio Lower Upper
117 100
82 59.5 46.6 69.8
119 32.9 26.4 39.6

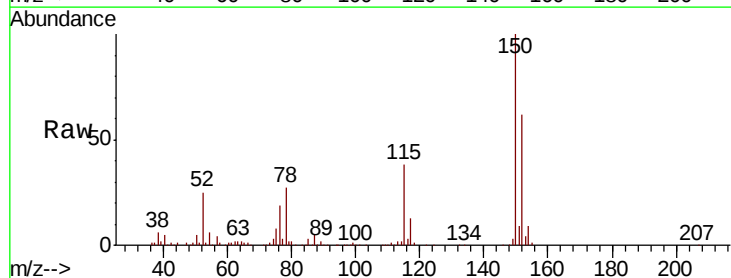


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

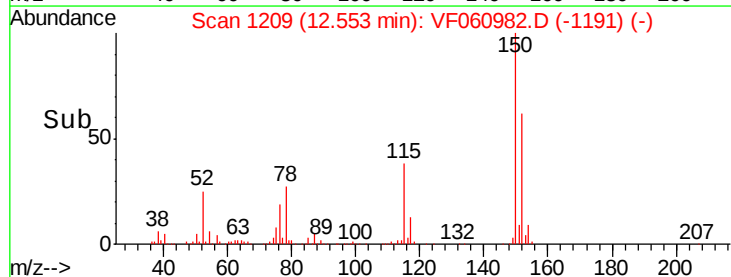
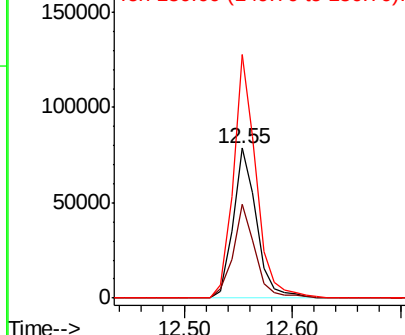


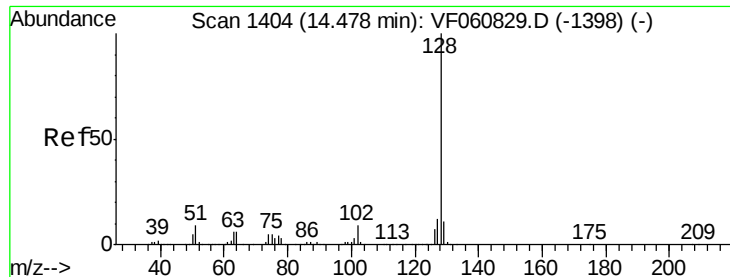
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.02 min
Lab File: VF060982.D
Acq: 11 Dec 2018 17:58

Tgt Ion:152 Resp: 118412
Ion Ratio Lower Upper
152 100
115 62.4 30.1 90.5
150 162.4 0.0 327.6



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#95
 Naphthalene
 Concen: Below Cal
 RT: 14.47 min Scan# 1403
 Delta R.T. -0.01 min
 Lab File: VF060982.D
 Acq: 11 Dec 2018 17:58

Instrument :
 MSVOA_F
 ClientSampleId :
 CL-01-121018-E

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.1	9.9	14.9
129	17.1	9.1	13.7

