

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF112818\
 Data File : VF060864.D
 Acq On : 28 Nov 2018 19:02
 Operator : VA/AP
 Sample : 2CVE CHECK
 Misc : 5.00µg/5mL/MSVOA-F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 2CVE CHECK

Quant Time: Nov 29 03:30:36 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	4.90	168	194854	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.62	114	326791	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.80	117	323575	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.56	152	178602	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.87	65	133077	57.97	ug/l	-0.01
Spiked Amount			Recovery	=	115.94%	
35) Dibromofluoromethane	4.14	113	146173	56.38	ug/l	-0.01
Spiked Amount			Recovery	=	112.76%	
50) Toluene-d8	7.57	98	384020	50.29	ug/l	-0.02
Spiked Amount			Recovery	=	100.58%	
62) 4-Bromofluorobenzene	11.43	95	191587	55.20	ug/l	-0.01
Spiked Amount			Recovery	=	110.40%	

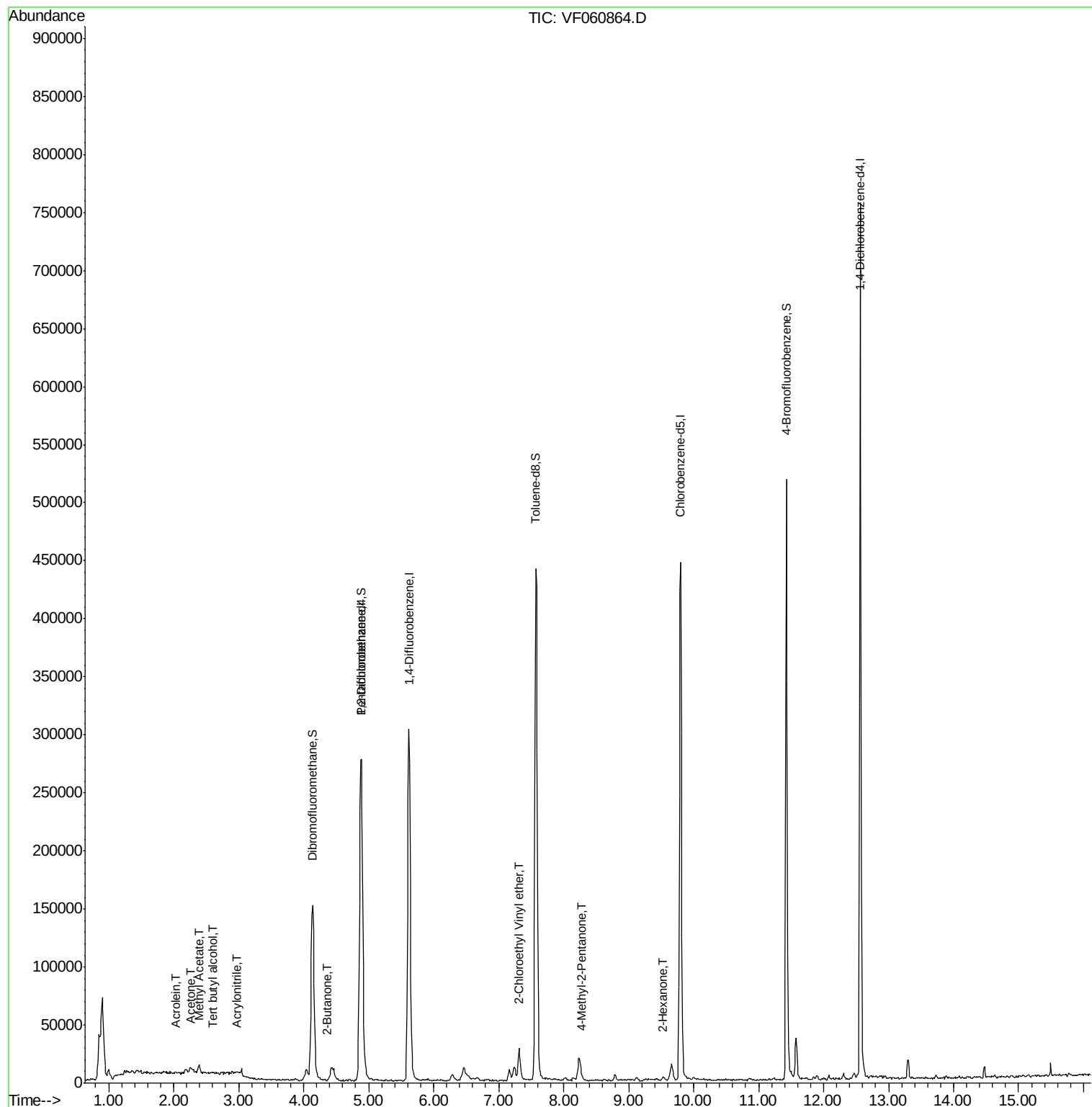
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.60	59	120	1.275	ug/l #	1
13) Acrolein	2.05	56	398	4.464	ug/l #	1
15) Acrylonitrile	2.96	53	499	2.365	ug/l #	3
16) Acetone	2.25	43	1599	3.778	ug/l	94
18) Methyl Acetate	2.40	43	3289	3.082	ug/l #	61
25) 2-Butanone	4.37	43	804	1.098	ug/l #	57
41) Methacrylonitrile	4.74	41	94	Below Cal	#	23
43) Isopropyl Acetate	6.98	43	464	Below Cal	#	49
51) 4-Methyl-2-Pentanone	8.29	43	2279	1.678	ug/l #	68
58) 2-Chloroethyl Vinyl ether	7.32	63	12964	69.614	ug/l	97
59) 2-Hexanone	9.53	43	1417	1.487	ug/l #	27
95) Naphthalene	14.47	128	4811	Below Cal	#	94

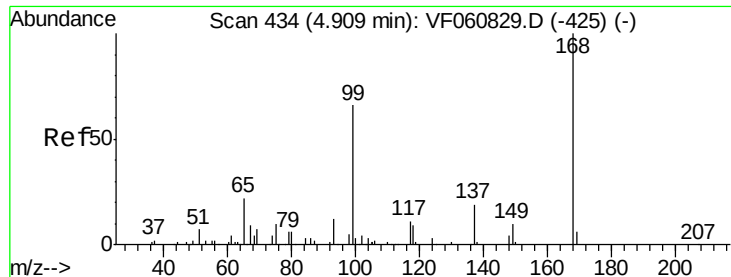
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 4.90 min Scan# 433

Delta R.T. -0.01 min

Lab File: VF060864.D

Acq: 28 Nov 2018 19:02

Instrument :

MSVOA_F

ClientSampleId :

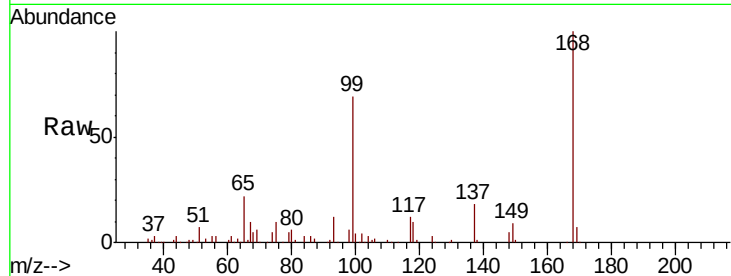
2CVE CHECK

Tot Ion:168 Resp: 194854

Ion Ratio Lower Upper

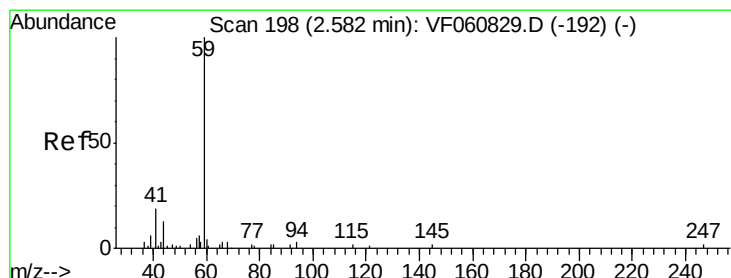
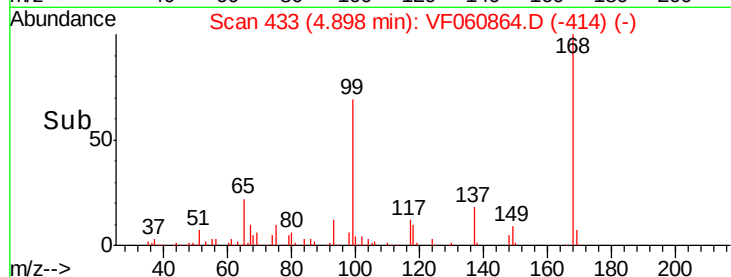
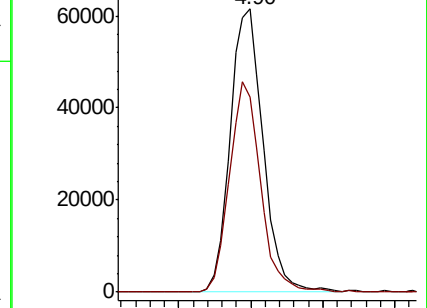
168 100

99 68.9 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#11

Tert butyl alcohol

Concen: 1.275 ug/l

RT: 2.60 min Scan# 200

Delta R.T. 0.02 min

Lab File: VF060864.D

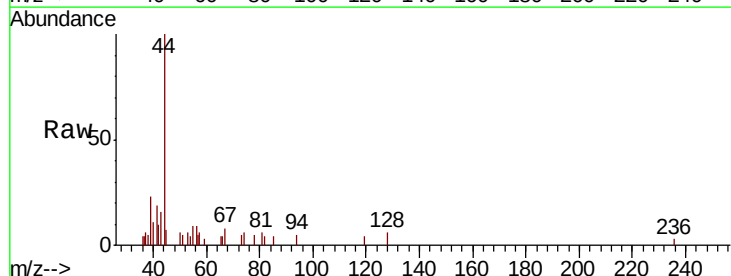
Acq: 28 Nov 2018 19:02

Tgt Ion: 59 Resp: 120

Ion Ratio Lower Upper

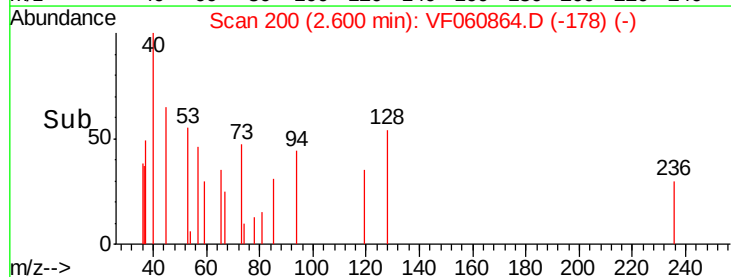
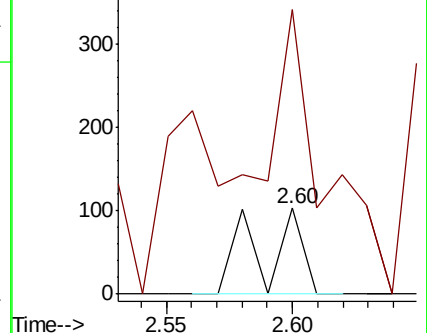
59 100

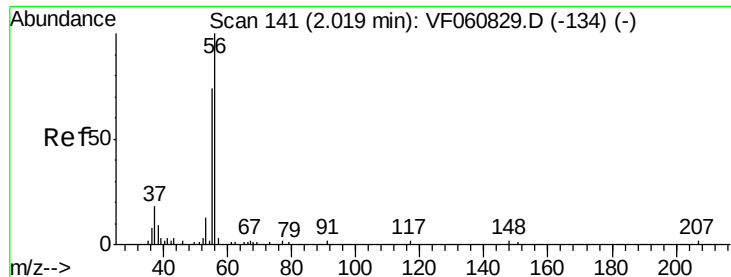
57 334.3 12.7 19.1#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: 4.464 ug/l

RT: 2.05 min Scan# 144

Delta R.T. 0.03 min

Lab File: VF060864.D

Acq: 28 Nov 2018 19:02

Instrument :

MSVOA_F

ClientSampled :

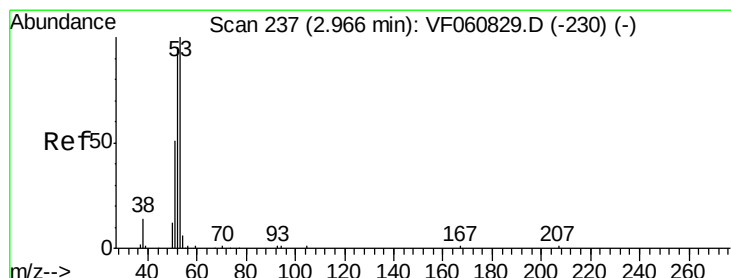
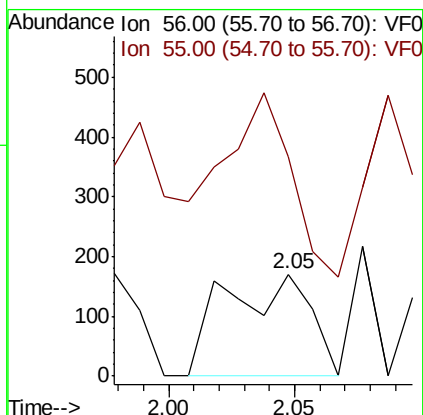
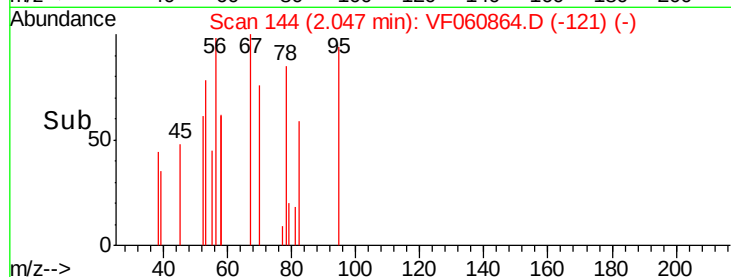
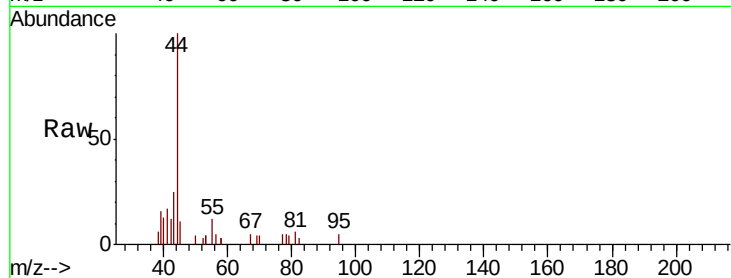
2CVE CHECK

Tot Ion: 56 Resp: 398

Ion Ratio Lower Upper

56 100

55 215.2 61.2 91.8#



#15

Acrylonitrile

Concen: 2.365 ug/l

RT: 2.96 min Scan# 236

Delta R.T. -0.01 min

Lab File: VF060864.D

Acq: 28 Nov 2018 19:02

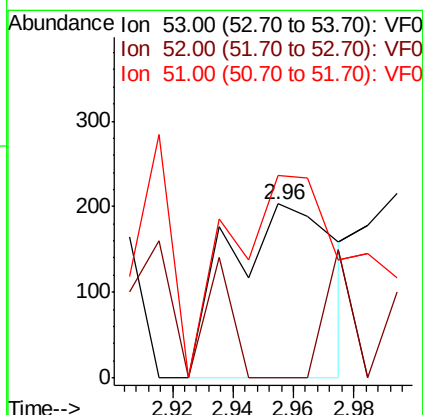
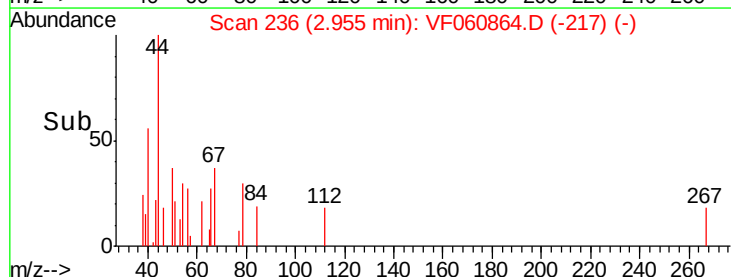
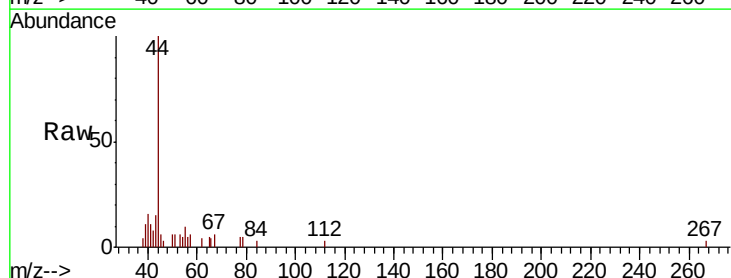
Tgt Ion: 53 Resp: 499

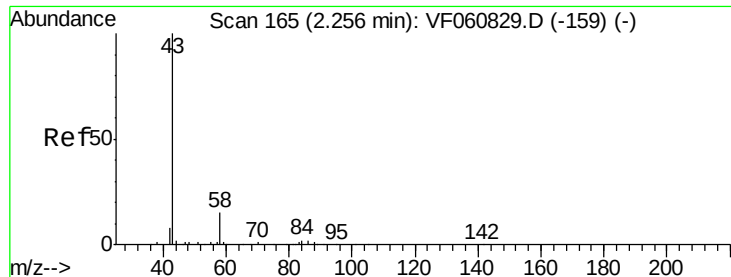
Ion Ratio Lower Upper

53 100

52 0.0 76.5 114.7#

51 116.7 40.7 61.1#





#16

Acetone

Concen: 3.778 ug/l

RT: 2.25 min Scan# 165

Delta R.T. -0.00 min

Lab File: VF060864.D

Acq: 28 Nov 2018 19:02

Instrument :

MSVOA_F

ClientSampleId :

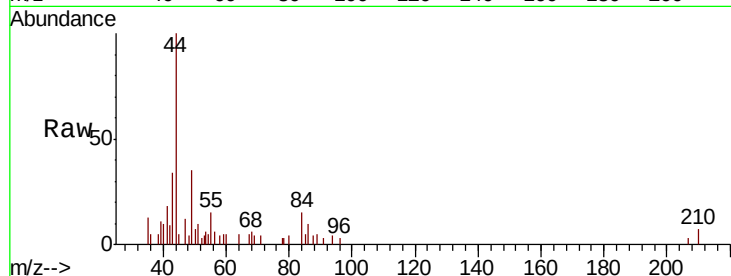
2CVE CHECK

Tot Ion: 43 Resp: 1599

Ion Ratio Lower Upper

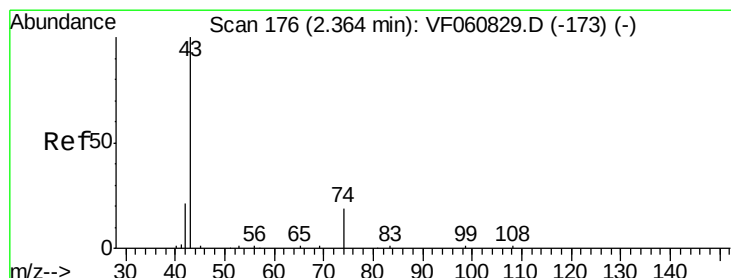
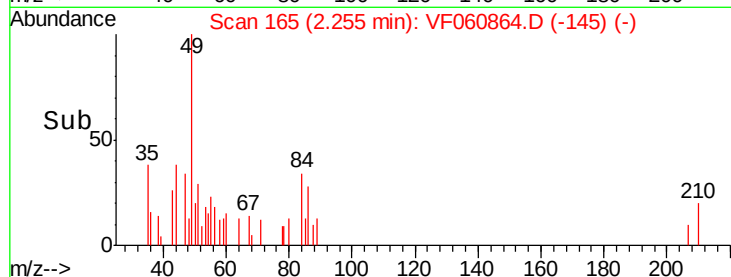
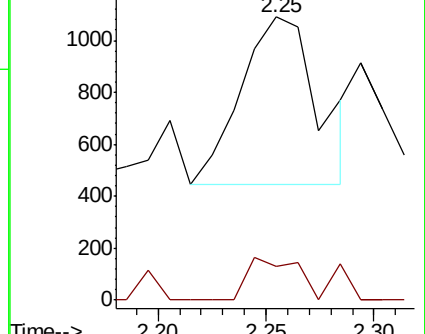
43 100

58 11.9 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#18

Methyl Acetate

Concen: 3.082 ug/l

RT: 2.40 min Scan# 180

Delta R.T. 0.04 min

Lab File: VF060864.D

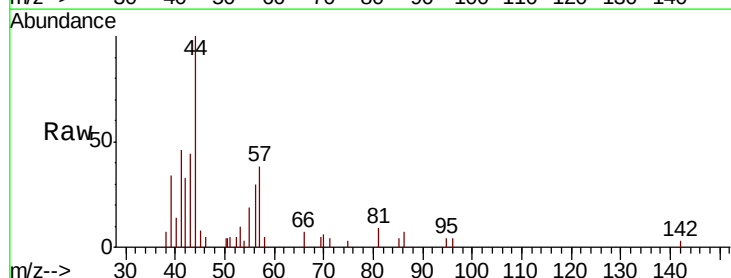
Acq: 28 Nov 2018 19:02

Tgt Ion: 43 Resp: 3289

Ion Ratio Lower Upper

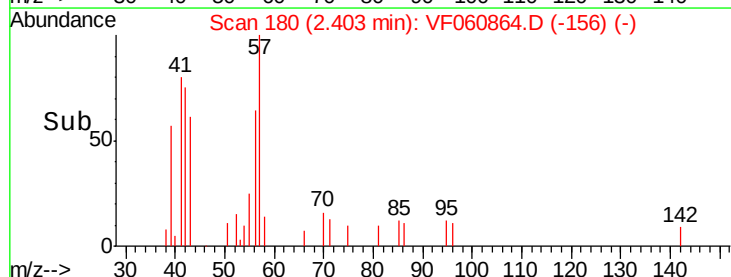
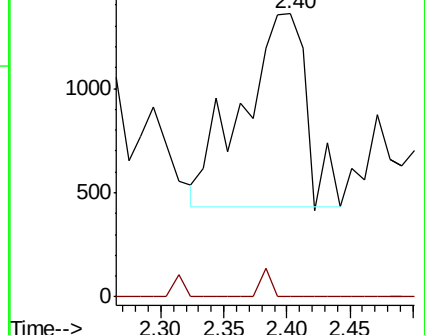
43 100

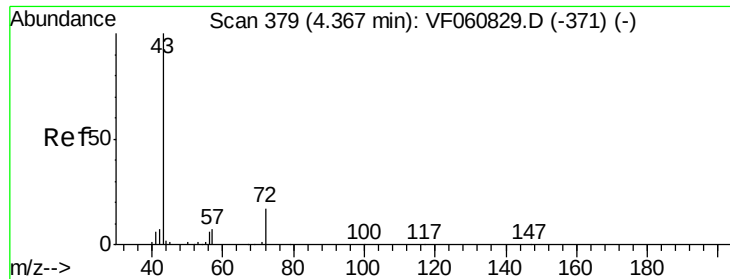
74 0.0 13.3 19.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0





#25

2-Butanone

Concen: 1.098 ug/l

RT: 4.37 min Scan# 379

Delta R.T. -0.00 min

Lab File: VF060864.D

Acq: 28 Nov 2018 19:02

Instrument :

MSVOA_F

ClientSampleId :

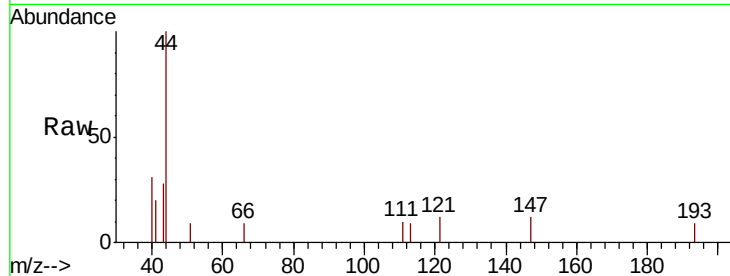
2CVE CHECK

Tot Ion: 43 Resp: 804

Ion Ratio Lower Upper

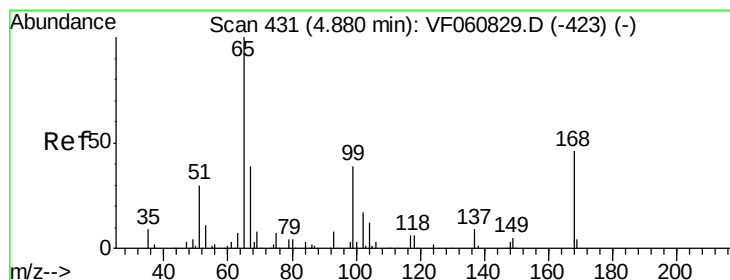
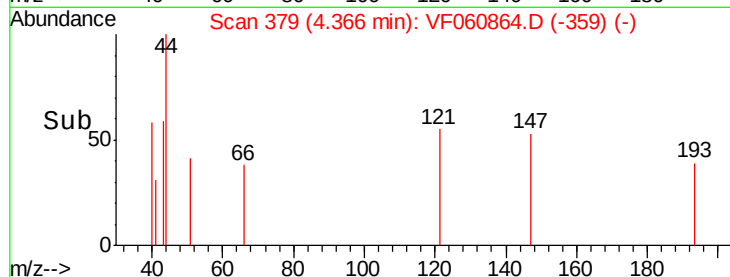
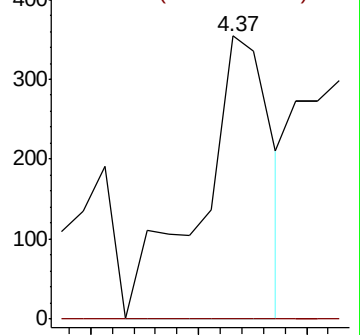
43 100

72 0.0 15.4 23.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 57.974 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.01 min

Lab File: VF060864.D

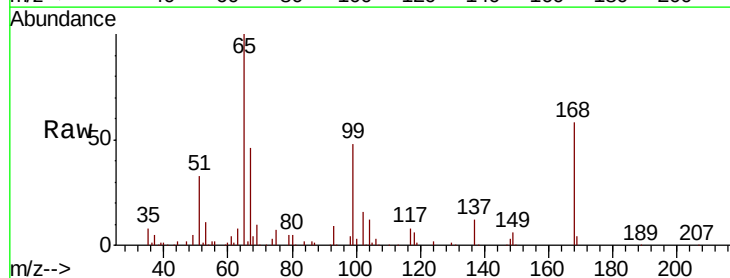
Acq: 28 Nov 2018 19:02

Tgt Ion: 65 Resp: 133077

Ion Ratio Lower Upper

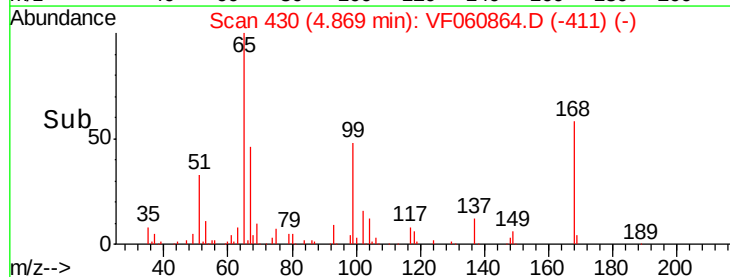
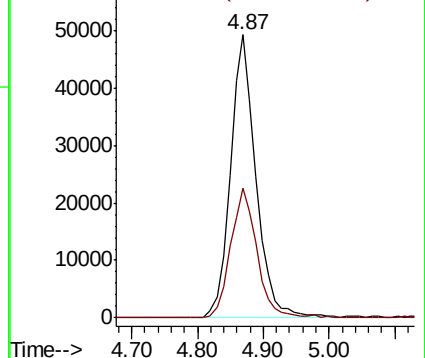
65 100

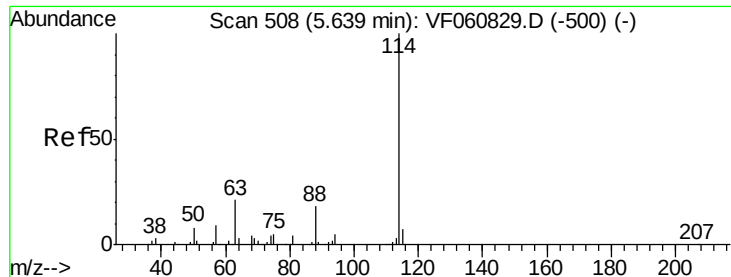
67 45.9 0.0 96.4



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

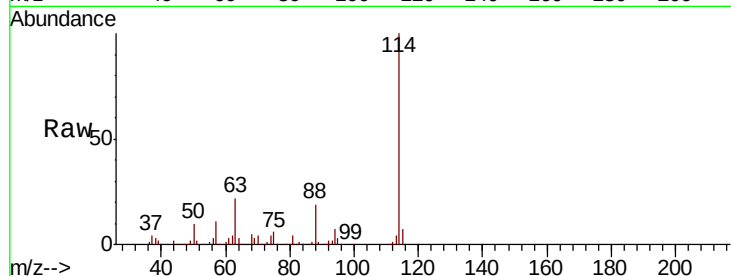




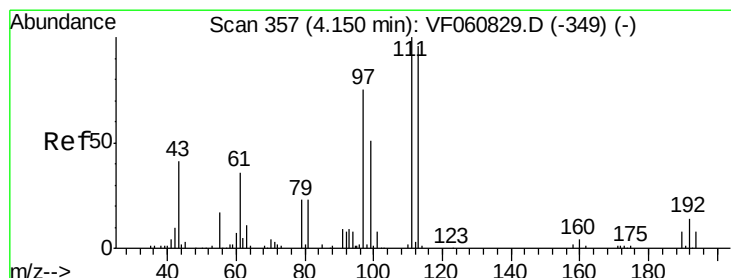
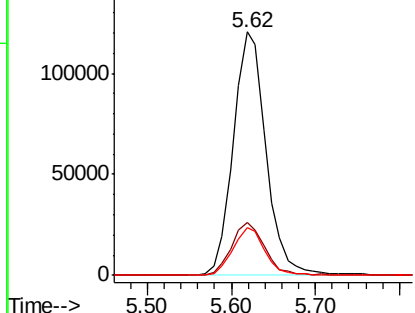
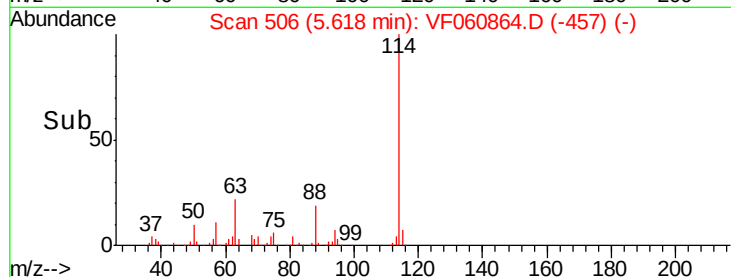
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.62 min Scan# 506
 Delta R.T. -0.02 min
 Lab File: VF060864.D
 Acq: 28 Nov 2018 19:02

Instrument :
 MSVOA_F
 ClientSampleId :
 2CVE CHECK

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	41.6
88	19.4	0.0	36.6

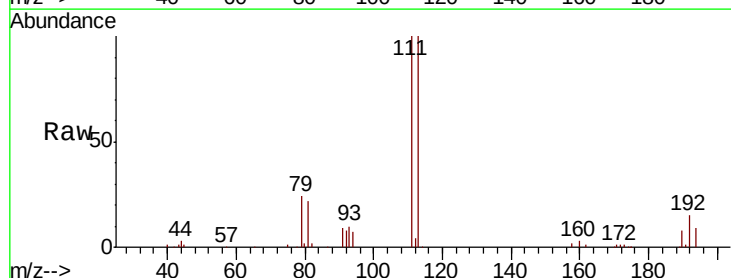


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VF0
 Ion 88.00 (87.70 to 88.70): VF0

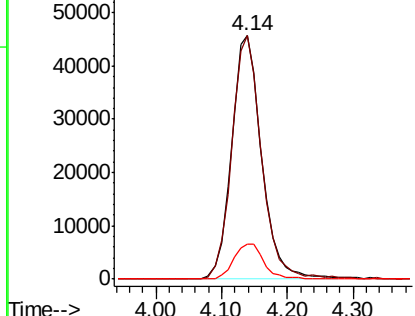
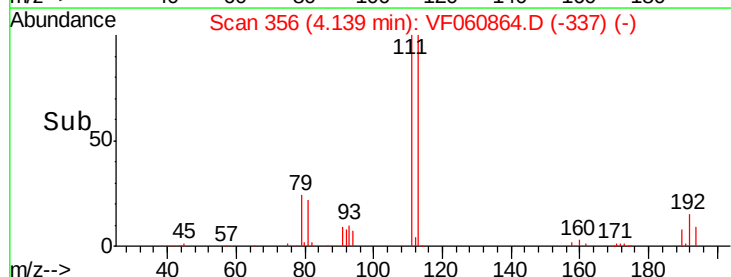


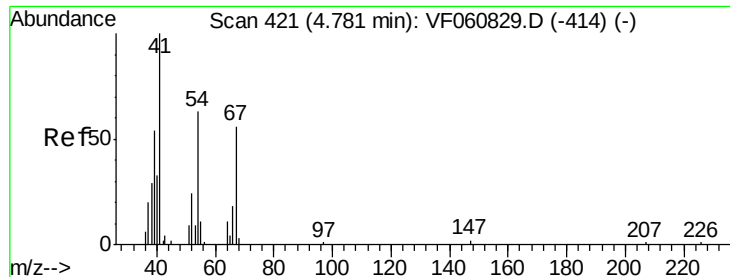
#35
 Dibromofluoromethane
 Concen: 56.383 ug/l
 RT: 4.14 min Scan# 356
 Delta R.T. -0.01 min
 Lab File: VF060864.D
 Acq: 28 Nov 2018 19:02

Tgt Ion	Ratio	Lower	Upper
113	100		
111	99.9	83.0	124.6
192	14.6	12.3	18.5



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

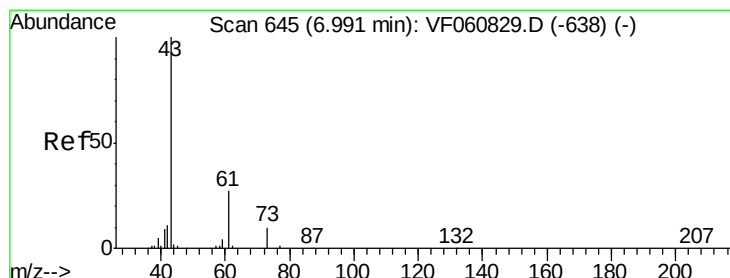
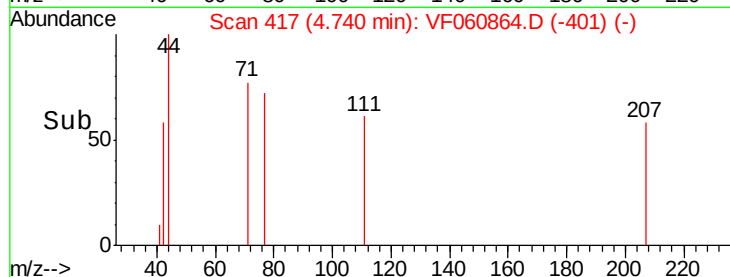
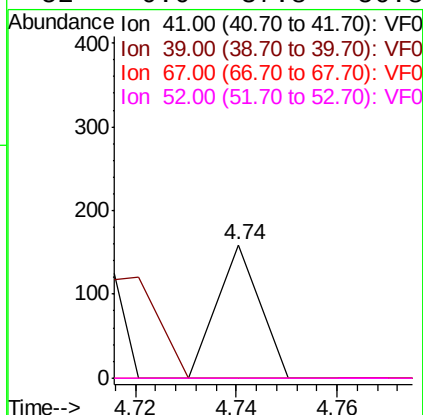
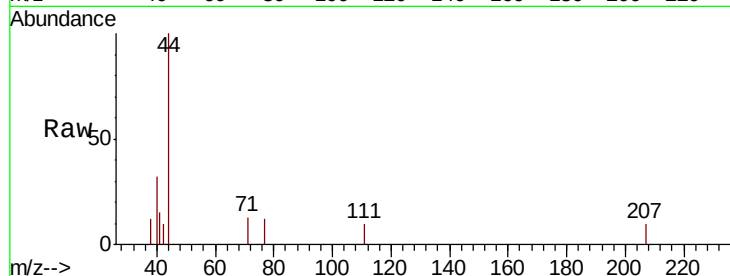




#41
Methacrylonitrile
Concen: Below Cal
RT: 4.74 min Scan# 417
Delta R.T. -0.04 min
Lab File: VF060864.D
Acq: 28 Nov 2018 19:02

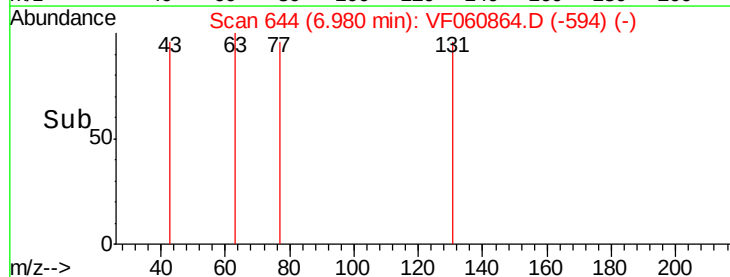
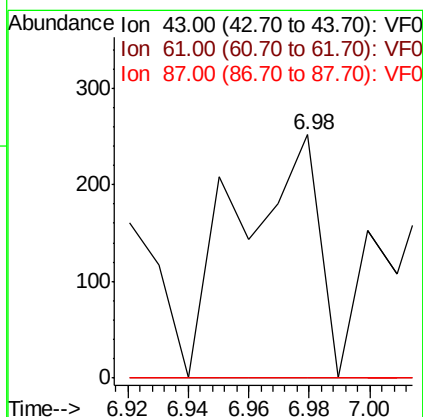
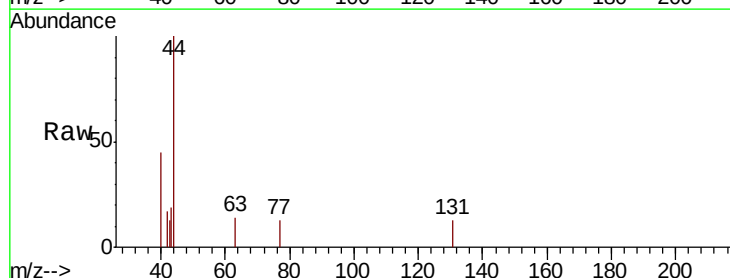
Instrument :
MSVOA_F
ClientSampleId :
2CVE CHECK

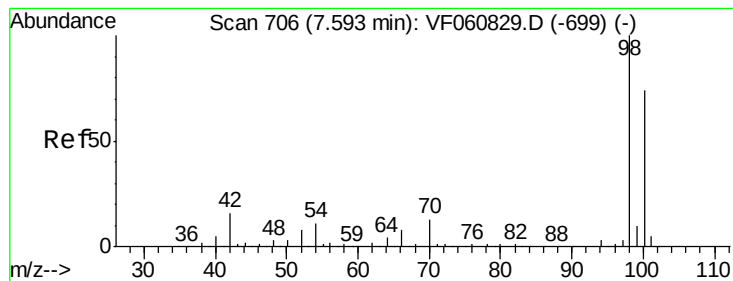
Tot Ion:	41	Resp:	94
Ion	Ratio	Lower	Upper
41	100		
39	0.0	53.0	79.6#
67	0.0	43.8	65.6#
52	0.0	37.8	56.8#



#43
Isopropyl Acetate
Concen: Below Cal
RT: 6.98 min Scan# 644
Delta R.T. -0.01 min
Lab File: VF060864.D
Acq: 28 Nov 2018 19:02

Tgt Ion:	43	Resp:	464
Ion	Ratio	Lower	Upper
43	100		
61	0.0	21.4	32.0#
87	0.0	0.2	0.4#





#50

Toluene-d8

Concen: 50.286 ug/l

RT: 7.57 min Scan# 704

Delta R.T. -0.02 min

Lab File: VF060864.D

Acq: 28 Nov 2018 19:02

Instrument :

MSVOA_F

ClientSampleId :

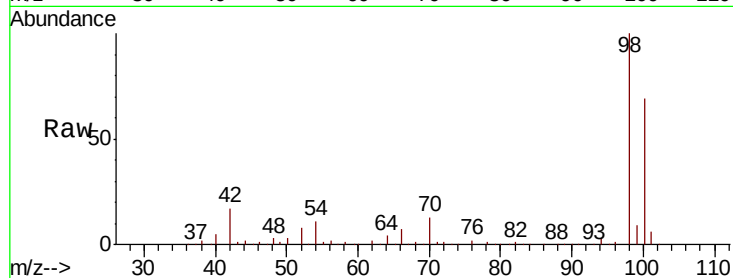
2CVE CHECK

Tot Ion: 98 Resp: 384020

Ion Ratio Lower Upper

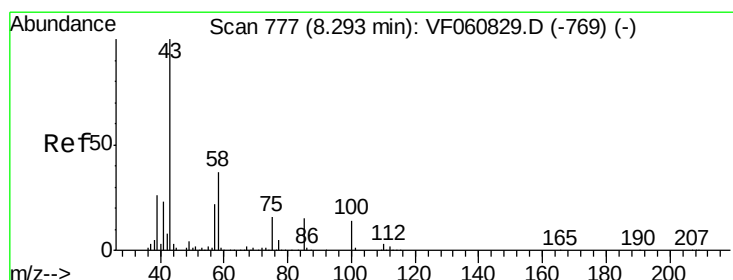
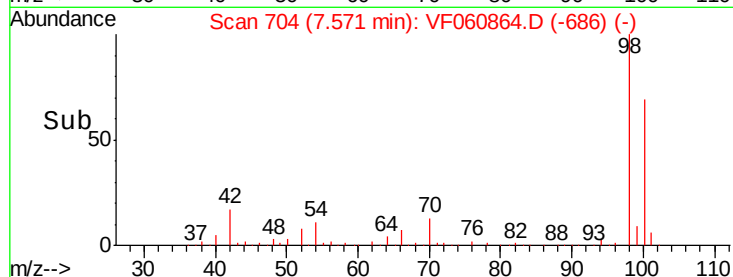
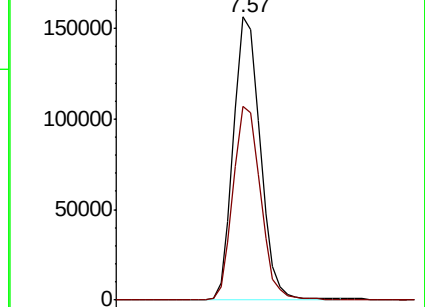
98 100

100 68.7 59.3 88.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF



#51

4-Methyl-2-Pentanone

Concen: 1.678 ug/l

RT: 8.29 min Scan# 777

Delta R.T. -0.00 min

Lab File: VF060864.D

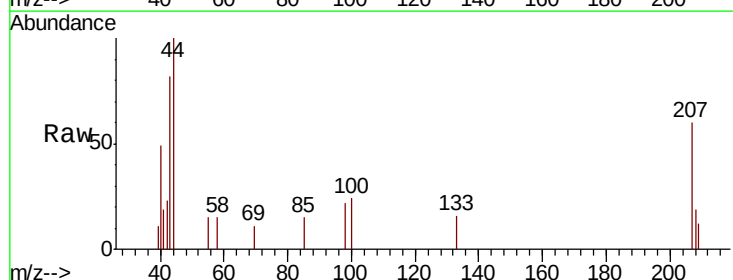
Acq: 28 Nov 2018 19:02

Tgt Ion: 43 Resp: 2279

Ion Ratio Lower Upper

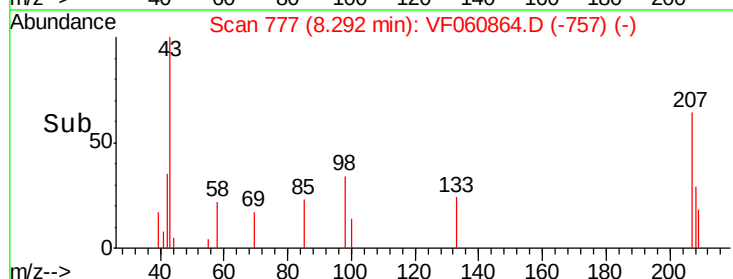
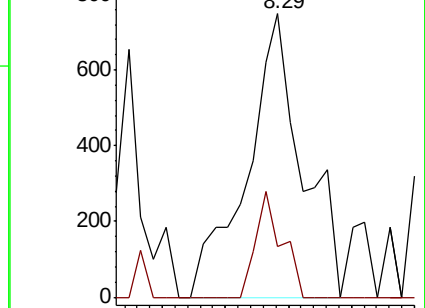
43 100

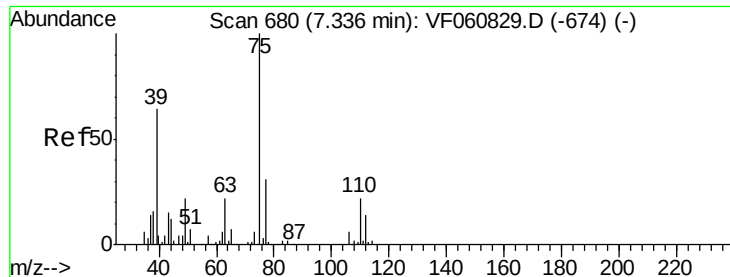
58 17.9 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#58

2-Chloroethyl Vinyl ether

Concen: 69.614 ug/l

RT: 7.32 min Scan# 678

Delta R.T. -0.02 min

Lab File: VF060864.D

Acq: 28 Nov 2018 19:02

Instrument :

MSVOA_F

ClientSampleId :

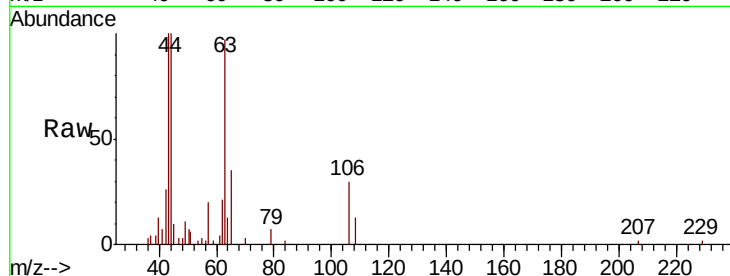
2CVE CHECK

Tot Ion: 63 Resp: 12964

Ion Ratio Lower Upper

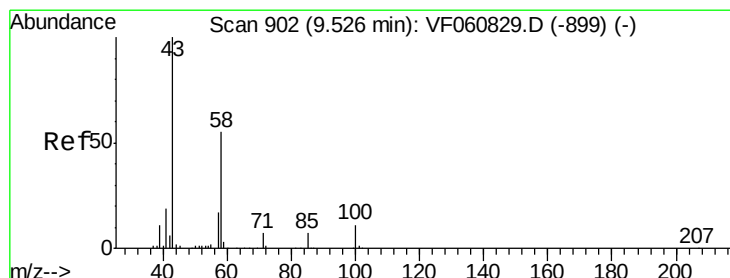
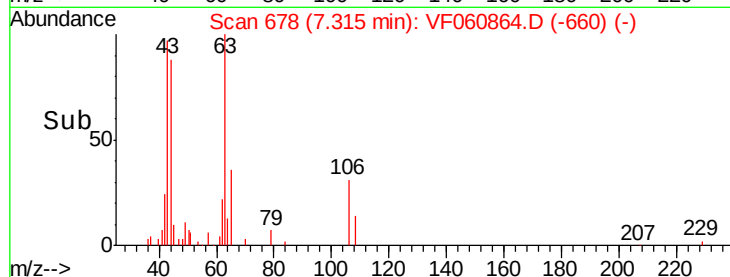
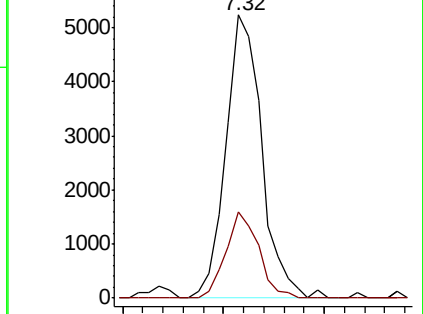
63 100

106 30.5 23.0 34.6



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V



#59

2-Hexanone

Concen: 1.487 ug/l

RT: 9.53 min Scan# 903

Delta R.T. 0.01 min

Lab File: VF060864.D

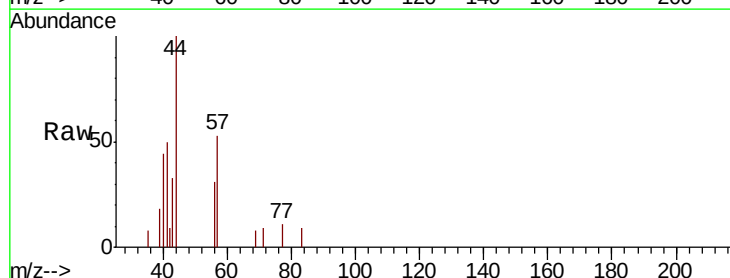
Acq: 28 Nov 2018 19:02

Tgt Ion: 43 Resp: 1417

Ion Ratio Lower Upper

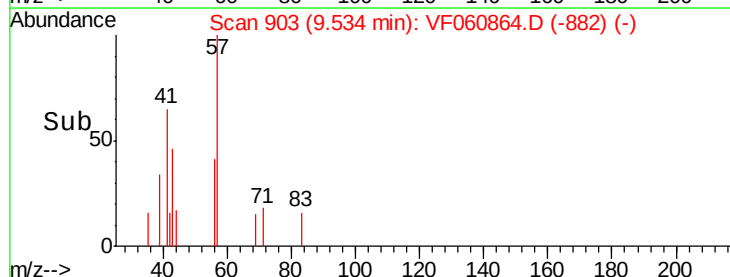
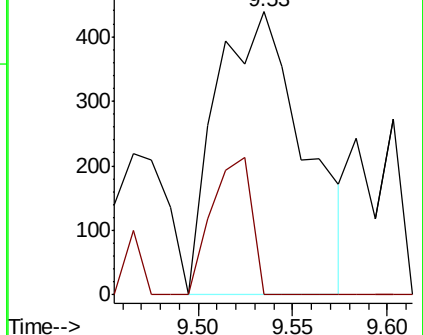
43 100

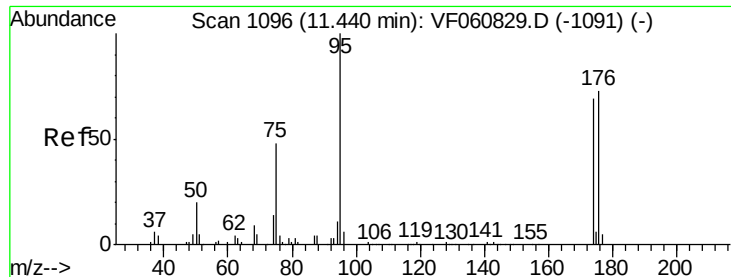
58 0.0 25.6 76.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

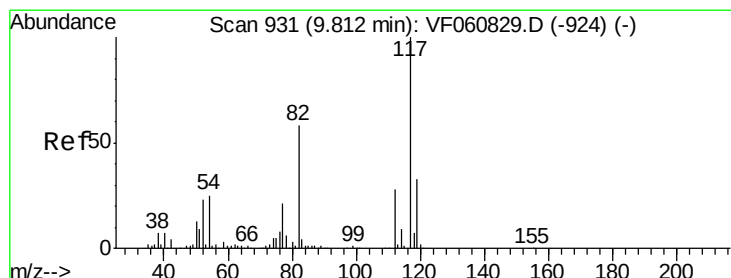
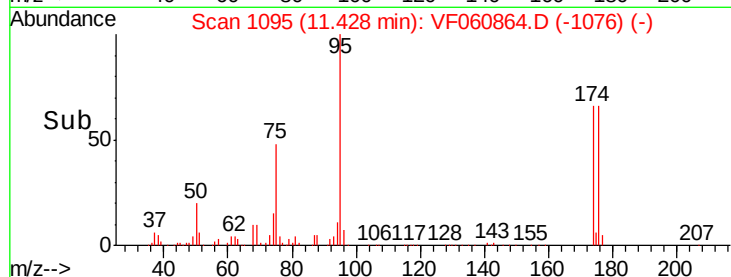
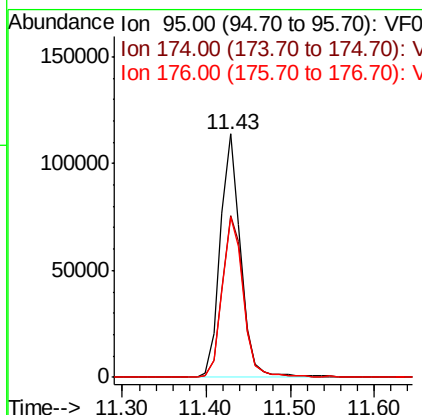
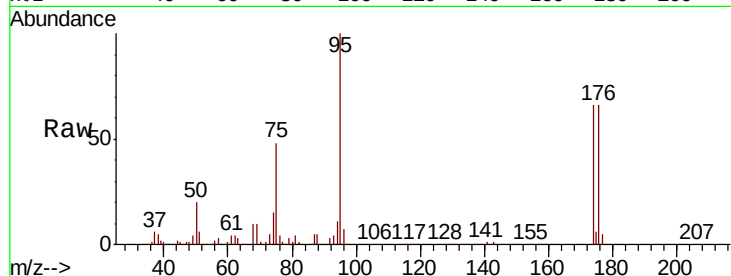




#62
4-Bromofluorobenzene
Concen: 55.200 ug/l
RT: 11.43 min Scan# 1095
Delta R.T. -0.01 min
Lab File: VF060864.D
Acq: 28 Nov 2018 19:02

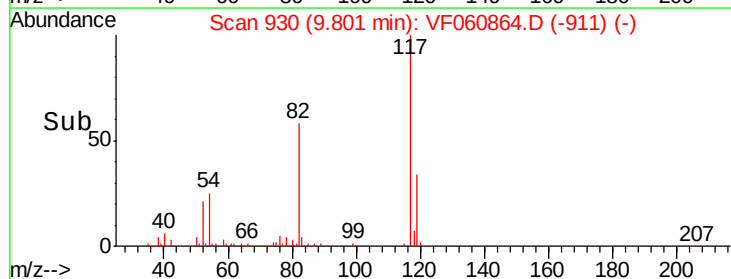
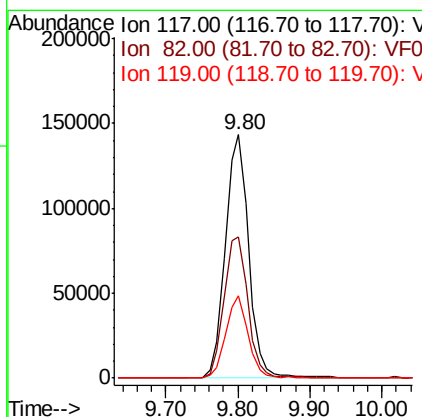
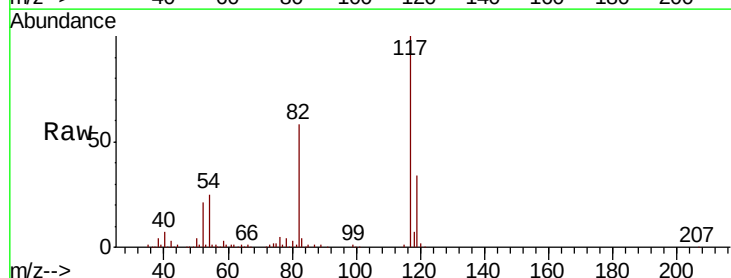
Instrument :
MSVOA_F
ClientSampleId :
2CVE CHECK

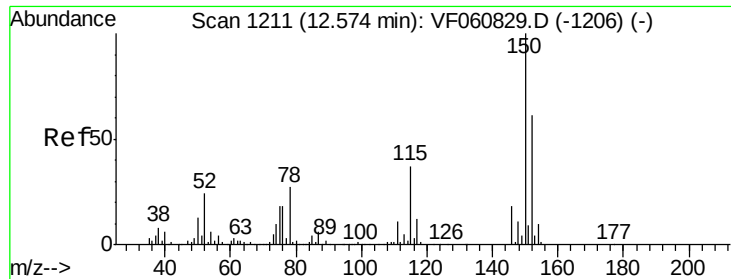
Tot Ion	95	Resp	191587
Ion	Ratio	Lower	Upper
95	100		
174	66.3	0.0	138.2
176	65.8	0.0	146.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.80 min Scan# 930
Delta R.T. -0.01 min
Lab File: VF060864.D
Acq: 28 Nov 2018 19:02

Tgt Ion	117	Resp	323575
Ion	Ratio	Lower	Upper
117	100		
82	58.1	46.6	69.8
119	33.6	26.4	39.6



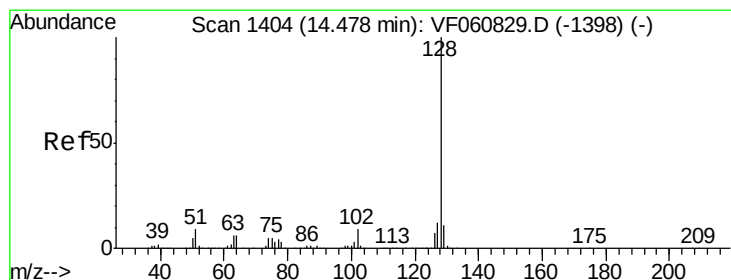
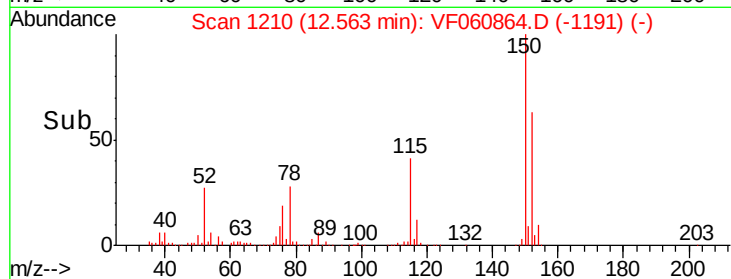
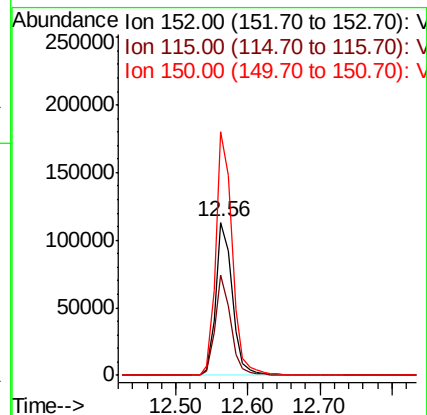
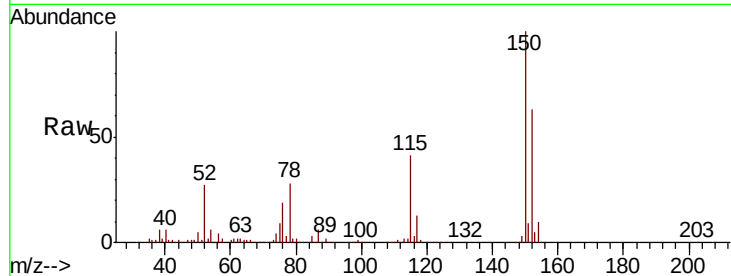


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.56 min Scan# 1210
Delta R.T. -0.01 min
Lab File: VF060864.D
Acq: 28 Nov 2018 19:02

Instrument :
MSVOA_F
ClientSampleId :
2CVE CHECK

Tot Ion:152 Resp: 178602
Ion Ratio Lower Upper
152 100
115 65.9 30.1 90.5
150 159.2 0.0 327.6



#95

Naphthalene
Concen: Below Cal
RT: 14.47 min Scan# 1403
Delta R.T. -0.01 min
Lab File: VF060864.D
Acq: 28 Nov 2018 19:02

Tgt Ion:128 Resp: 4811
Ion Ratio Lower Upper
128 100
127 11.3 9.9 14.9
129 15.1 9.1 13.7#

