

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF082318\
 Data File : VF060086.D
 Acq On : 24 Aug 2018 8:16
 Operator : VA/AP
 Sample : J4581-16
 Misc : 5.67g/5mL/MSVOA F/SOIL
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Aug 24 08:50:15 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F082118S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 04:43:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	166843	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.77	114	259731	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	286519	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	162737	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.02	65	140415	61.49	ug/l	0.00
Spiked Amount			Recovery	=	122.98%	
35) Dibromofluoromethane	4.29	113	121853	59.75	ug/l	0.00
Spiked Amount			Recovery	=	119.50%	
50) Toluene-d8	7.71	98	308035	53.18	ug/l	0.00
Spiked Amount			Recovery	=	106.36%	
62) 4-Bromofluorobenzene	11.51	95	159994	52.21	ug/l	0.00
Spiked Amount			Recovery	=	104.42%	

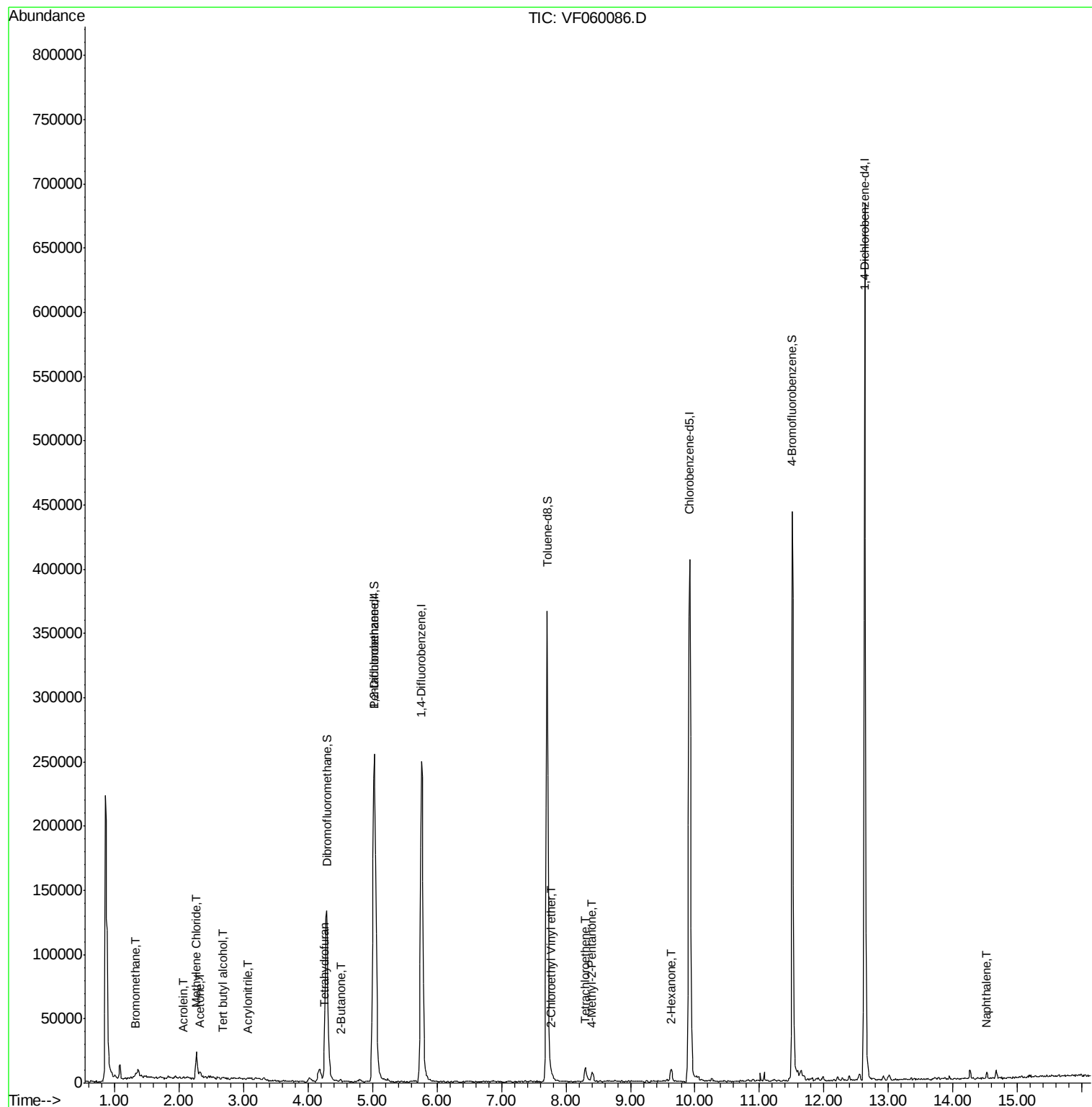
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.08	50	1671	Below Cal		99
5) Bromomethane	1.31	94	1930	1.86	ug/l	88
11) Tert butyl alcohol	2.67	59	692	5.70	ug/l #	80
13) Acrolein	2.07	56	476	32.06	ug/l #	75
15) Acrylonitrile	3.07	53	418	1.74	ug/l #	73
16) Acetone	2.33	43	6835	11.39	ug/l	96
18) Methyl Acetate	2.44	43	1850	Below Cal	#	60
20) Methylene Chloride	2.27	84	8406	2.21	ug/l	85
25) 2-Butanone	4.51	43	2180	2.80	ug/l #	79
29) Tetrahydrofuran	4.24	42	555	1.89	ug/l #	54
51) 4-Methyl-2-Pentanone	8.41	43	6445	4.06	ug/l #	87
52) Toluene	7.79	92	998	Below Cal	#	65
58) 2-Chloroethyl Vinyl ether	7.78	63	214	1.55	ug/l	100
59) 2-Hexanone	9.63	43	8812	6.86	ug/l	99
64) Tetrachloroethene	8.30	164	3259	1.69	ug/l	96
68) m/p-Xylenes	10.27	106	739	Below Cal		81
95) Naphthalene	14.52	128	3450	2.83	ug/l	96

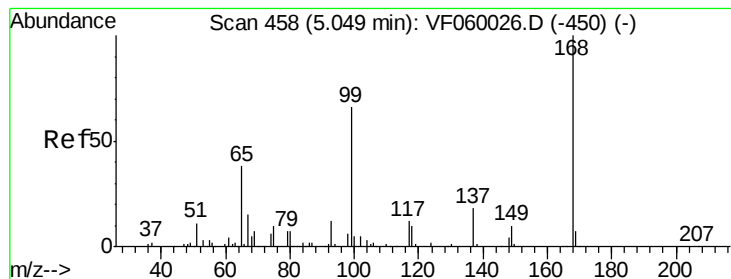
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F082118S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 22 04:43:43 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.04 min Scan# 457

Delta R.T. -0.01 min

Lab File: VF060086.D

Acq: 24 Aug 2018 8:16

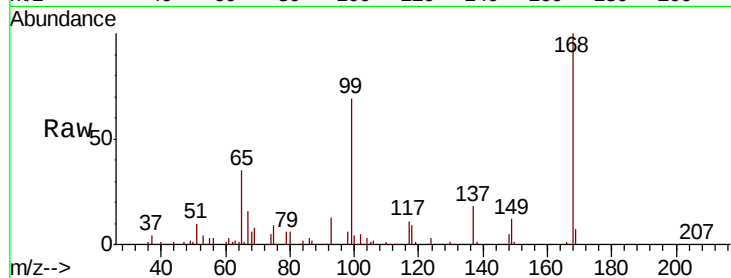
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 166843

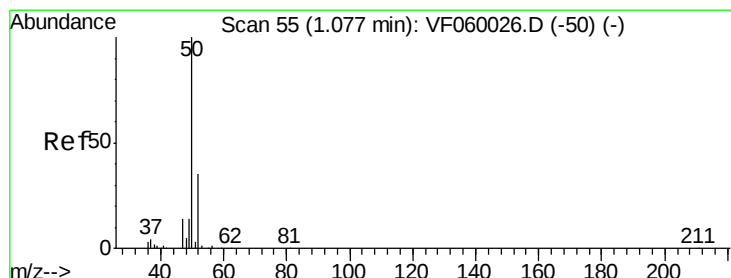
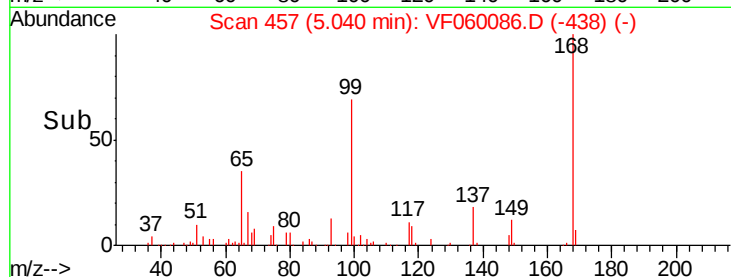
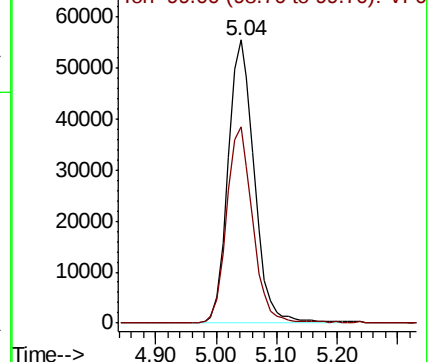
Ion Ratio Lower Upper

168 100

99 69.3 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0



#3

Chloromethane

Concen: Below Cal

RT: 1.08 min Scan# 55

Delta R.T. 0.00 min

Lab File: VF060086.D

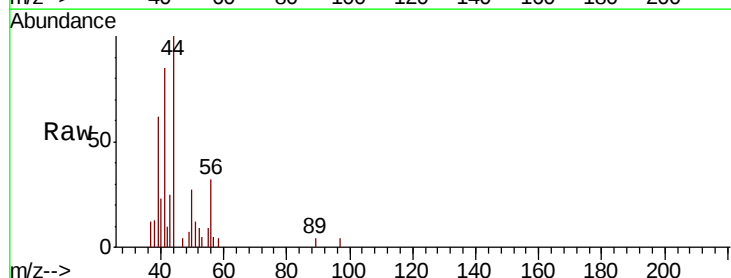
Acq: 24 Aug 2018 8:16

Tgt Ion: 50 Resp: 1671

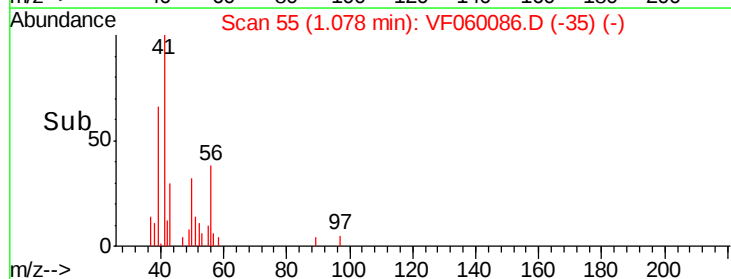
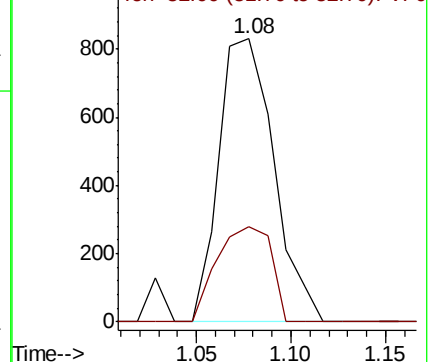
Ion Ratio Lower Upper

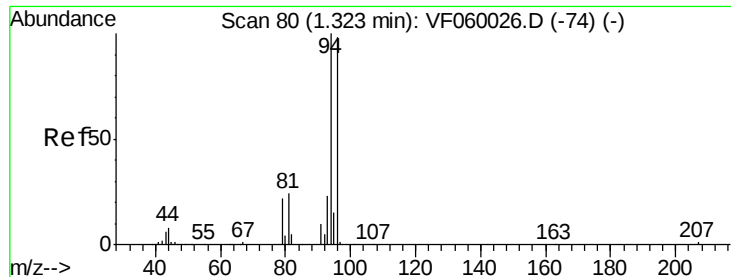
50 100

52 33.7 27.6 41.4



Abundance Ion 50.00 (49.70 to 50.70): VF0





#5

Bromomethane

Concen: 1.86 ug/l

RT: 1.31 min Scan# 79

Delta R.T. -0.01 min

Lab File: VF060086.D

Acq: 24 Aug 2018 8:16

Instrument :

MSVOA_F

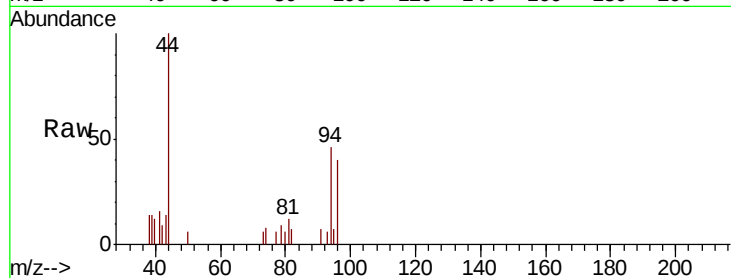
ClientSampleId :

Tot Ion: 94 Resp: 1930

Ion Ratio Lower Upper

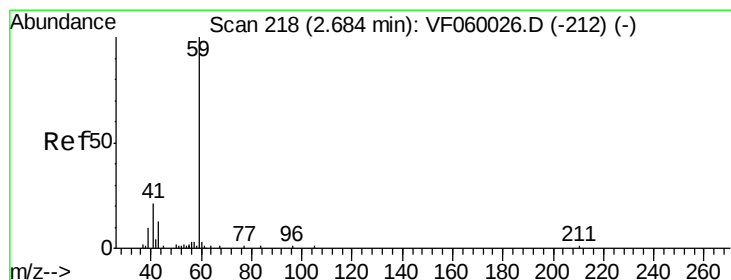
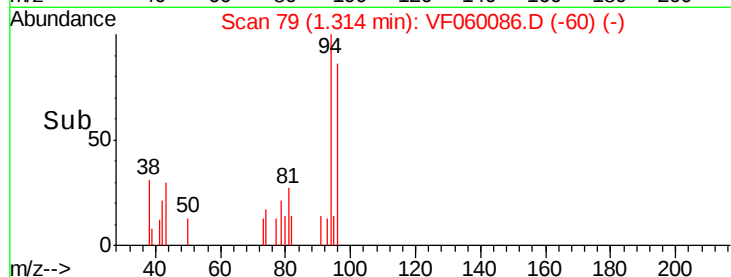
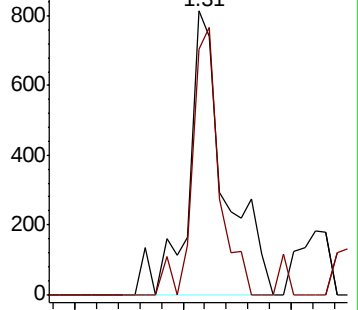
94 100

96 86.4 78.6 118.0



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#11

Tert butyl alcohol

Concen: 5.70 ug/l

RT: 2.67 min Scan# 217

Delta R.T. -0.01 min

Lab File: VF060086.D

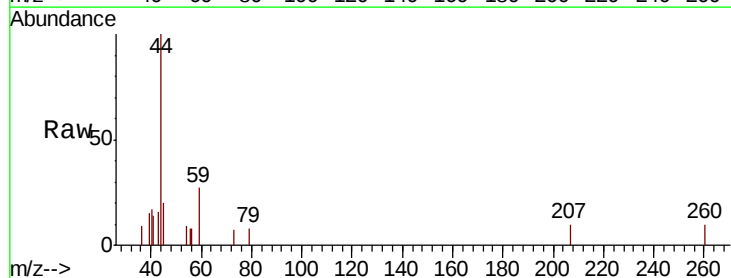
Acq: 24 Aug 2018 8:16

Tgt Ion: 59 Resp: 692

Ion Ratio Lower Upper

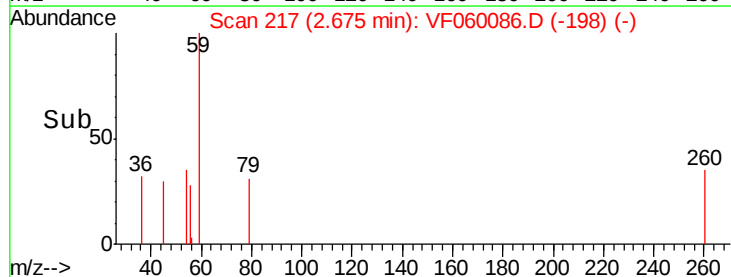
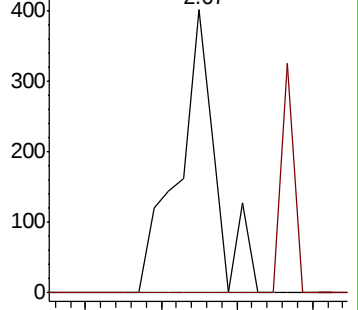
59 100

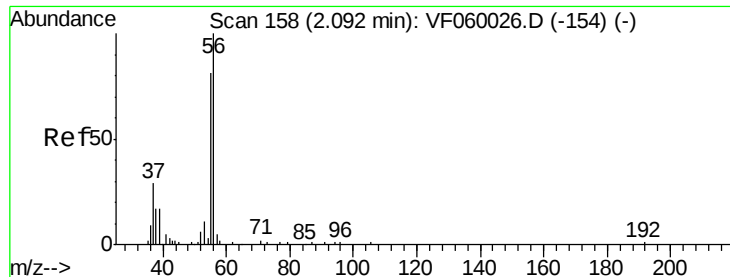
57 0.0 5.4 8.2#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: 32.06 ug/l

RT: 2.07 min Scan# 156

Delta R.T. -0.02 min

Lab File: VF060086.D

Acq: 24 Aug 2018 8:16

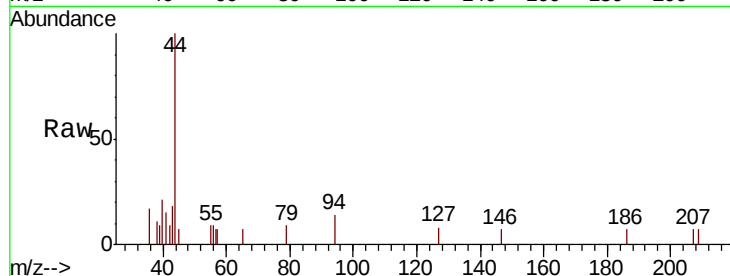
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 476

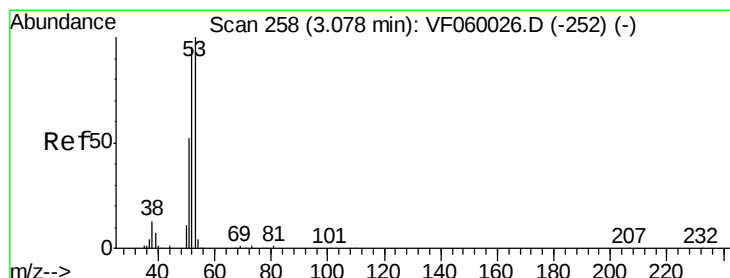
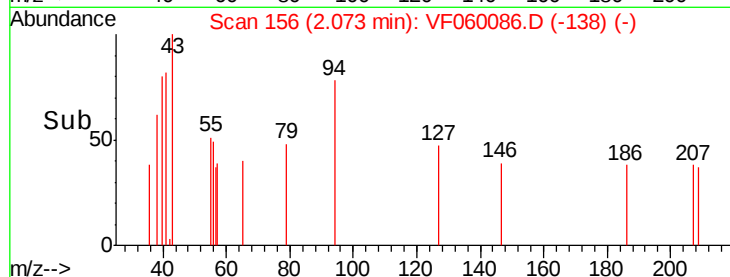
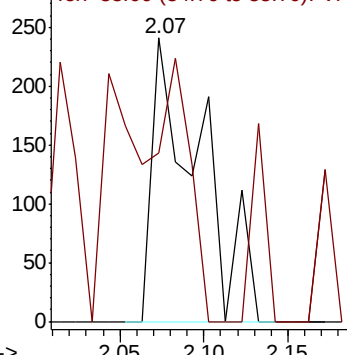
Ion Ratio Lower Upper

56 100

55 59.3 65.6 98.4#



Abundance Ion 56.00 (55.70 to 56.70): VF0
Ion 55.00 (54.70 to 55.70): VF0



#15

Acrylonitrile

Concen: 1.74 ug/l

RT: 3.07 min Scan# 257

Delta R.T. -0.01 min

Lab File: VF060086.D

Acq: 24 Aug 2018 8:16

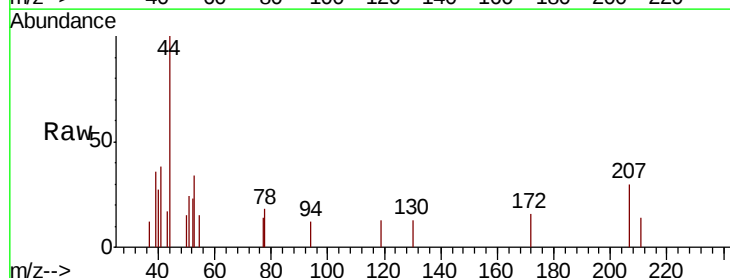
Tgt Ion: 53 Resp: 418

Ion Ratio Lower Upper

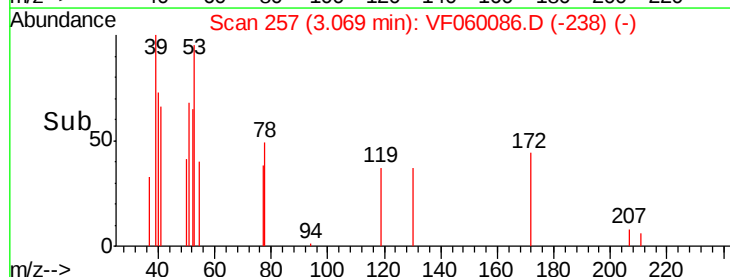
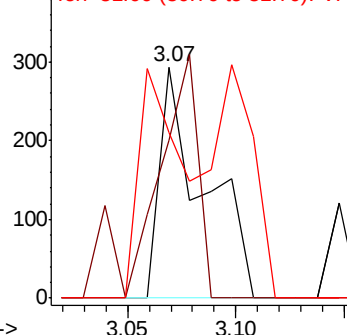
53 100

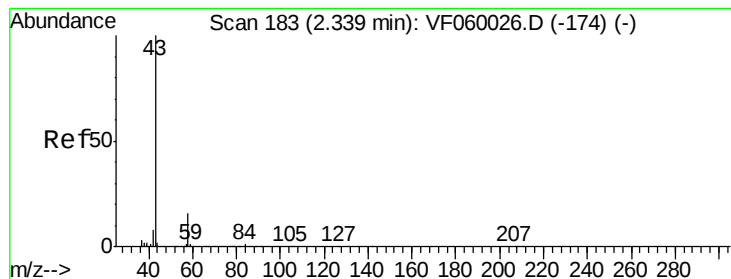
52 68.4 75.8 113.8#

51 71.4 42.1 63.1#



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: 11.39 ug/l

RT: 2.33 min Scan# 182

Delta R.T. -0.01 min

Lab File: VF060086.D

Acq: 24 Aug 2018 8:16

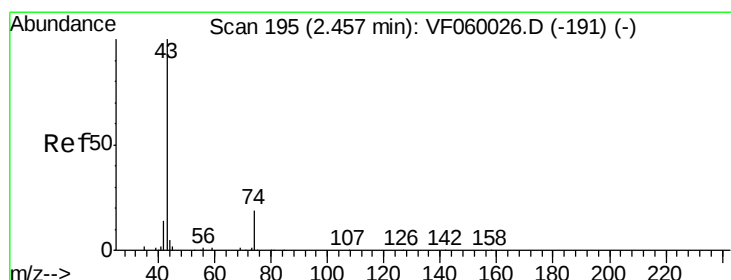
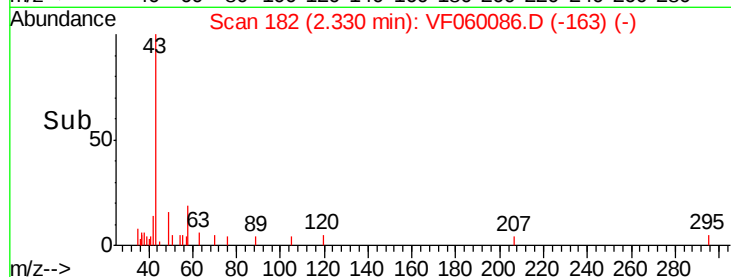
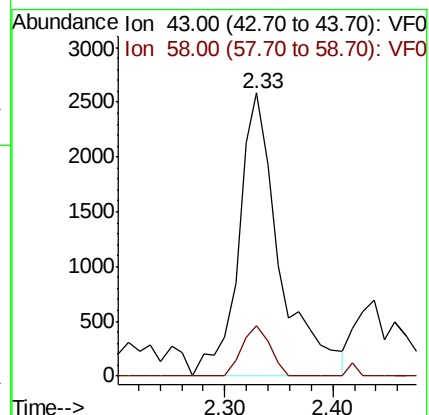
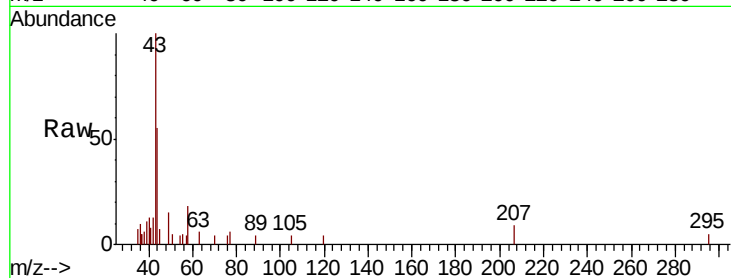
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 6835

Ion Ratio Lower Upper

43 100

58 17.6 12.6 19.0



#18

Methyl Acetate

Concen: Below Cal

RT: 2.44 min Scan# 193

Delta R.T. -0.02 min

Lab File: VF060086.D

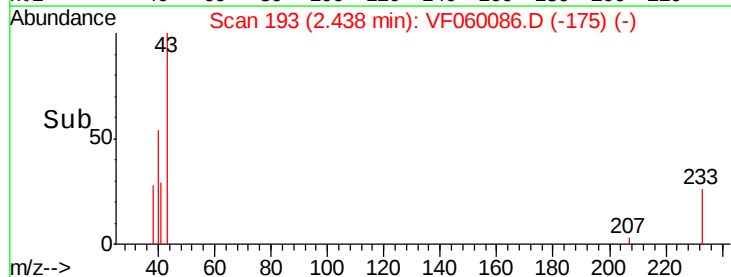
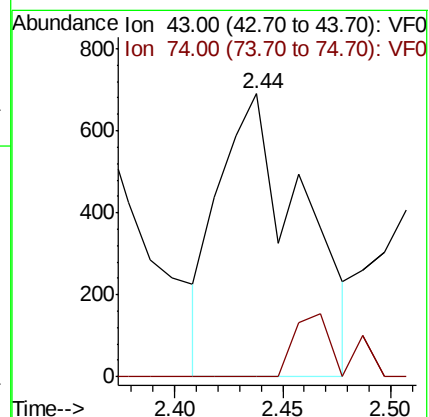
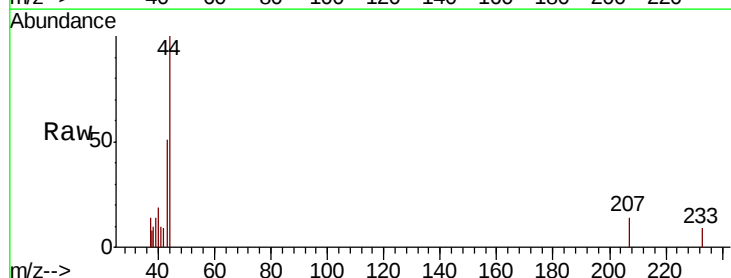
Acq: 24 Aug 2018 8:16

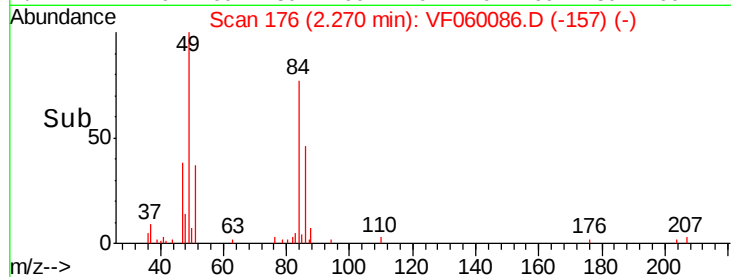
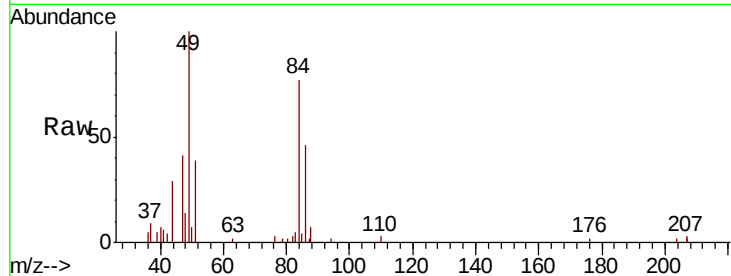
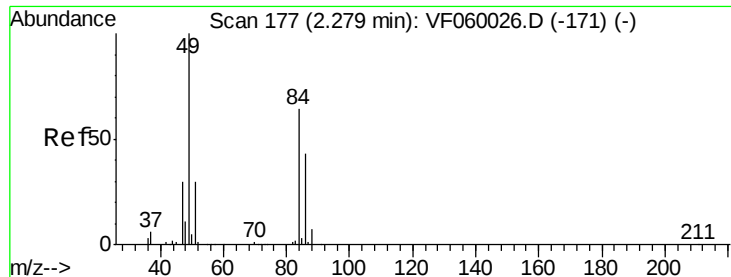
Tgt Ion: 43 Resp: 1850

Ion Ratio Lower Upper

43 100

74 0.0 13.8 20.6#

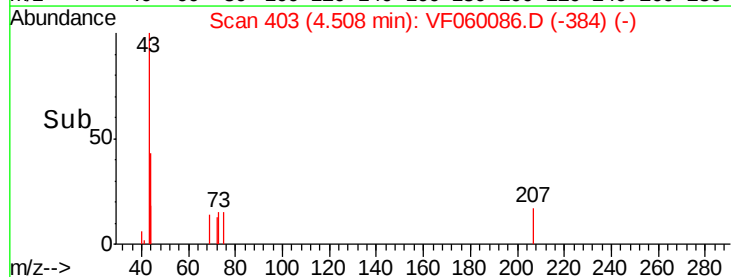
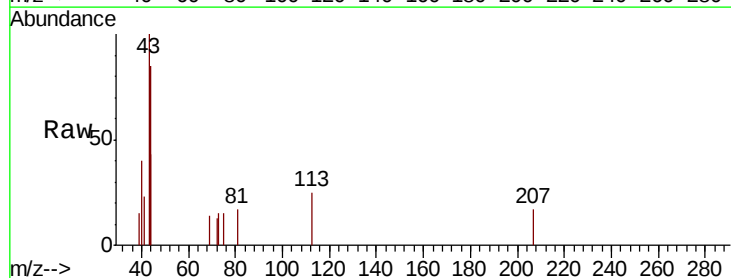
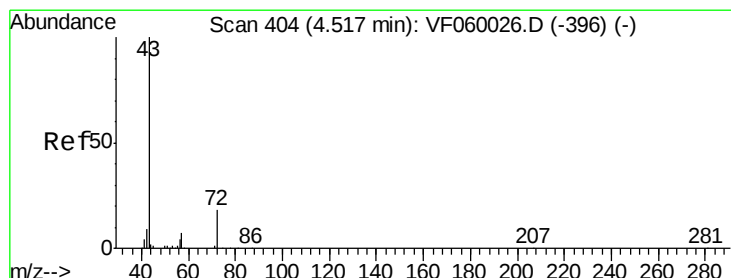
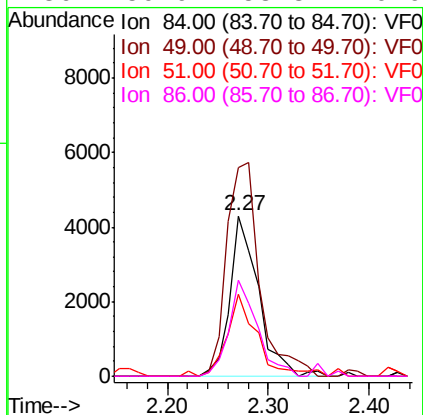




#20
Methvlene Chloride
Concen: 2.21 ug/l
RT: 2.27 min Scan# 176
Delta R.T. -0.01 min
Lab File: VF060086.D
Acq: 24 Aug 2018 8:16

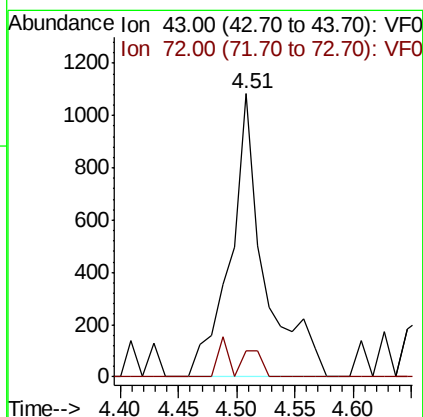
Instrument :
MSVOA_F
ClientSampled :

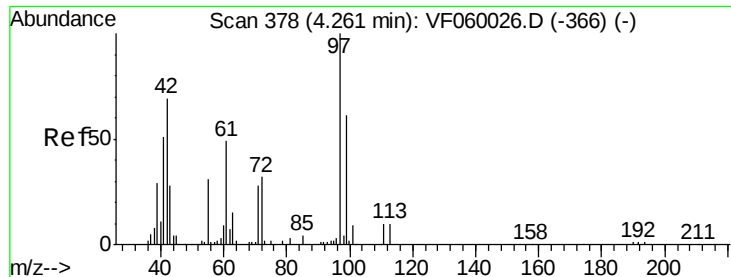
Tot Ion:	84	Resp:	8406
Ion	Ratio	Lower	Upper
84	100		
49	130.1	125.4	188.0
51	51.2	38.3	57.5
86	59.9	53.3	79.9



#25
2-Butanone
Concen: 2.80 ug/l
RT: 4.51 min Scan# 403
Delta R.T. -0.01 min
Lab File: VF060086.D
Acq: 24 Aug 2018 8:16

Tgt Ion:	43	Resp:	2180
Ion	Ratio	Lower	Upper
43	100		
72	9.3	15.0	22.6#

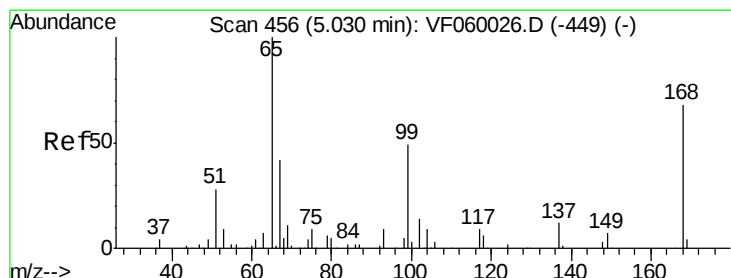
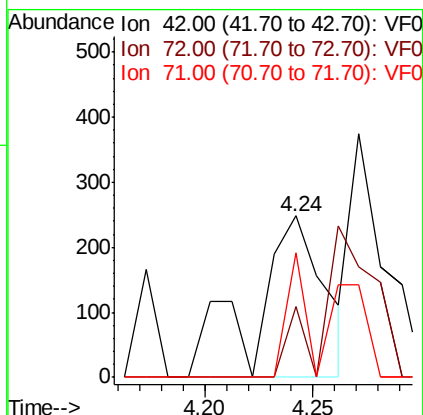
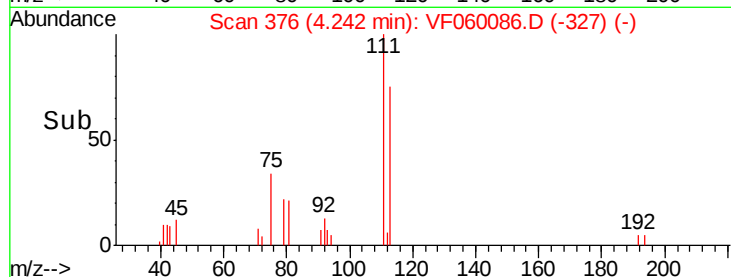
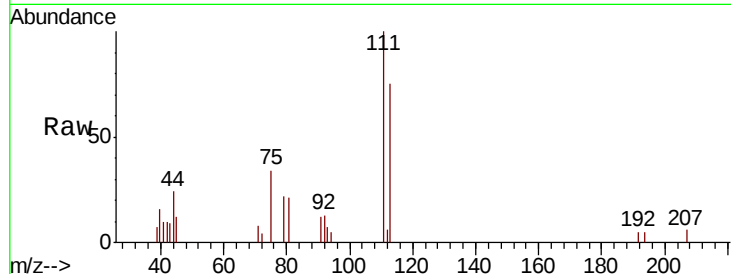




#29
Tetrahydrofuran
Concen: 1.89 ug/l
RT: 4.24 min Scan# 376
Delta R.T. -0.02 min
Lab File: VF060086.D
Acq: 24 Aug 2018 8:16

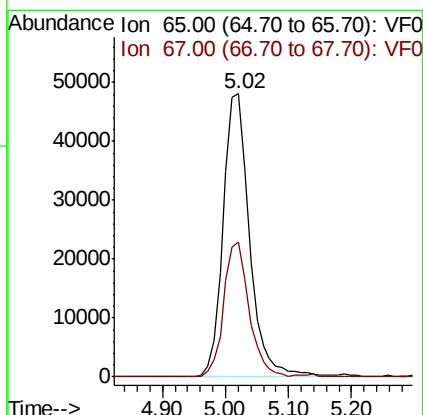
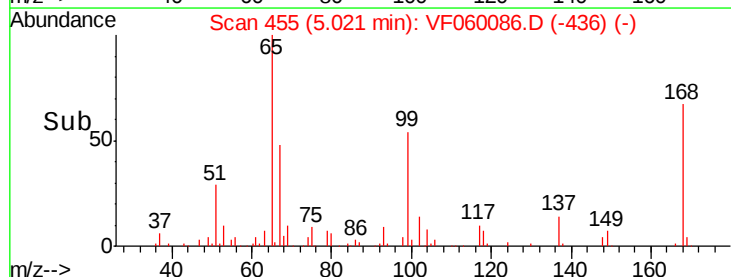
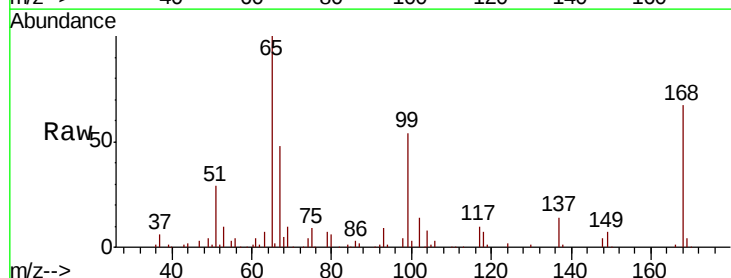
Instrument :
MSVOA_F
ClientSampled :

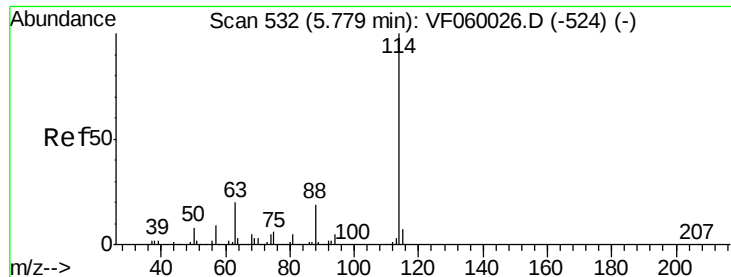
Tot Ion: 42 Resp: 555
Ion Ratio Lower Upper
42 100
72 0.0 31.4 47.2#
71 20.5 29.7 44.5#



#33
1,2-Dichloroethane-d4
Concen: 61.49 ug/l
RT: 5.02 min Scan# 455
Delta R.T. -0.01 min
Lab File: VF060086.D
Acq: 24 Aug 2018 8:16

Tgt Ion: 65 Resp: 140415
Ion Ratio Lower Upper
65 100
67 47.5 0.0 92.0

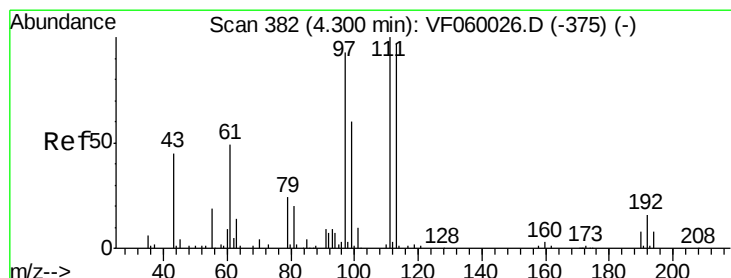
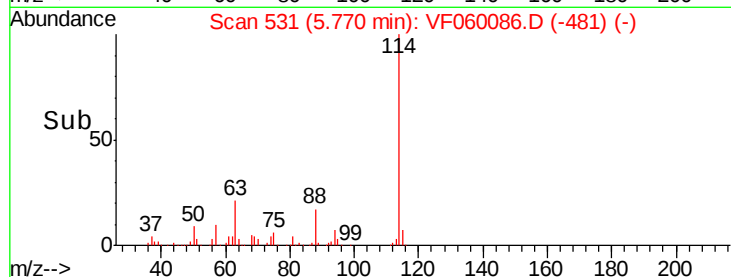
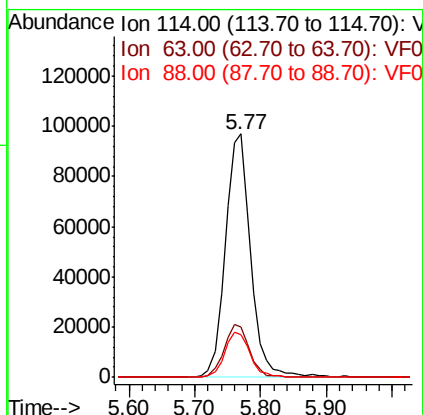
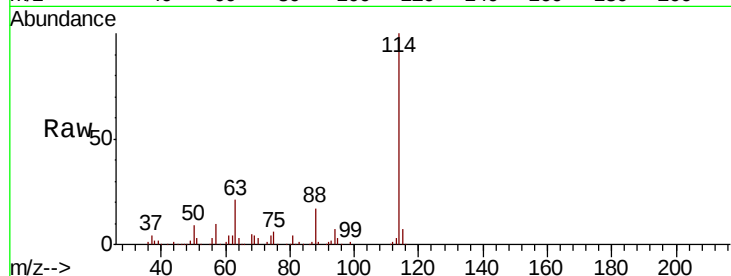




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.77 min Scan# 531
 Delta R.T. -0.01 min
 Lab File: VF060086.D
 Acq: 24 Aug 2018 8:16

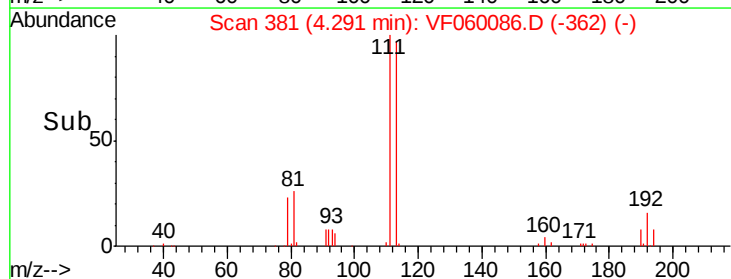
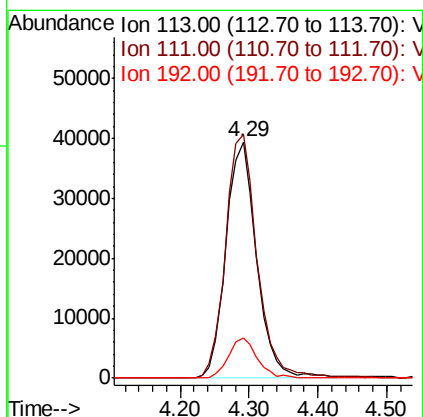
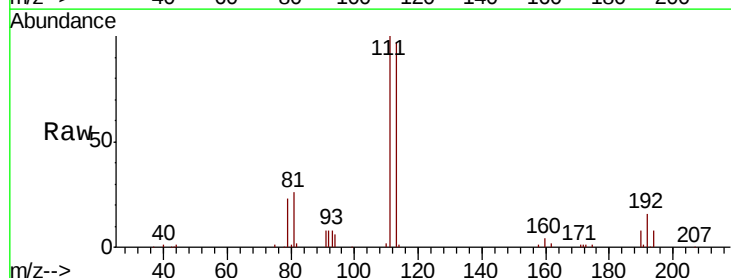
Instrument :
 MSVOA_F
 ClientSampleId :

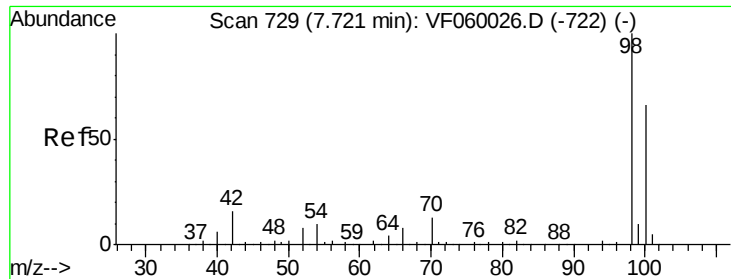
Tot Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	40.4
88	17.3	0.0	38.6



#35
 Dibromofluoromethane
 Concen: 59.75 ug/l
 RT: 4.29 min Scan# 381
 Delta R.T. -0.01 min
 Lab File: VF060086.D
 Acq: 24 Aug 2018 8:16

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.7	124.1
192	17.0	13.0	19.4

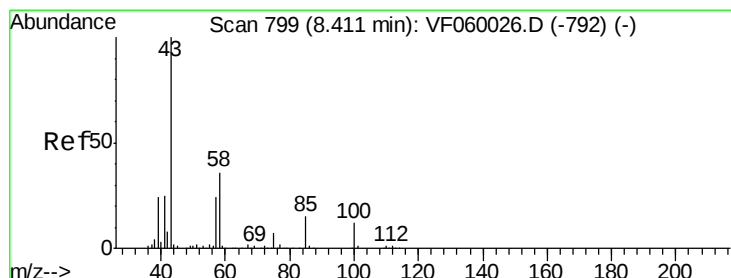
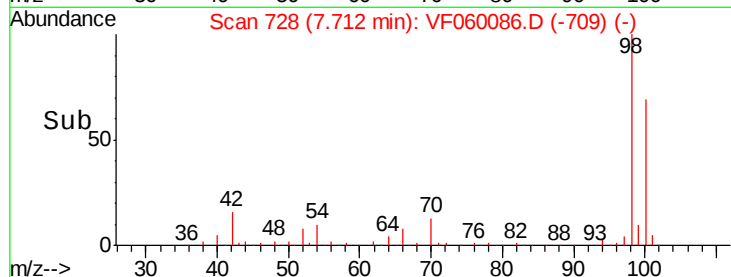
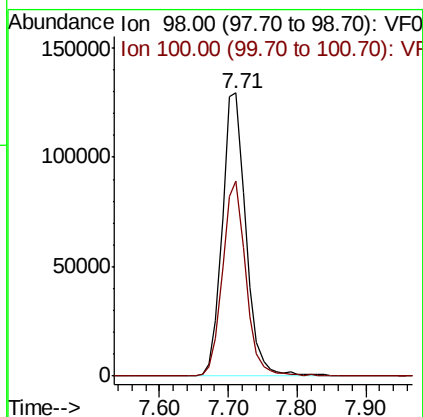
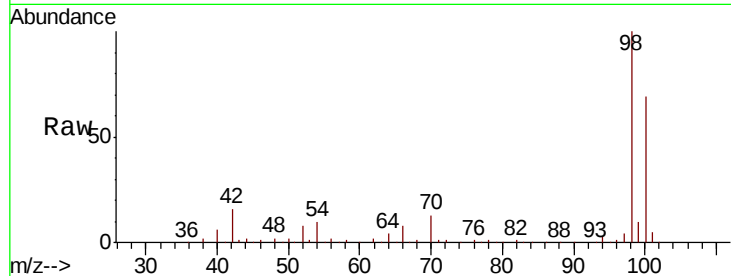




#50
Toluene-d8
Concen: 53.18 ug/l
RT: 7.71 min Scan# 728
Delta R.T. -0.01 min
Lab File: VF060086.D
Acq: 24 Aug 2018 8:16

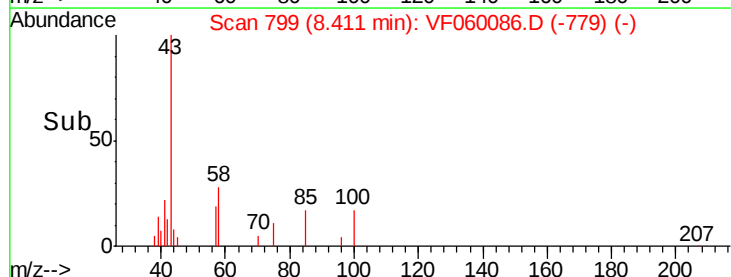
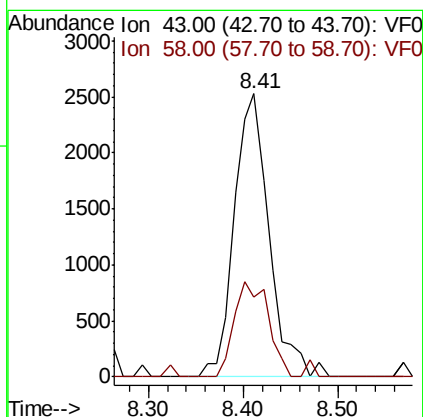
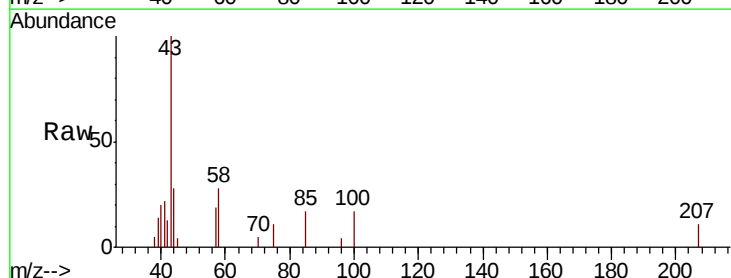
Instrument :
MSVOA_F
ClientSampleId :

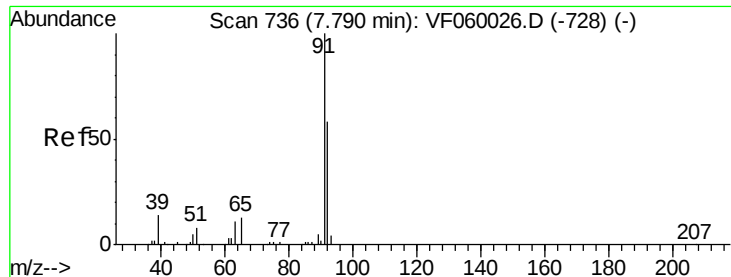
Tot Ion: 98 Resp: 308035
Ion Ratio Lower Upper
98 100
100 69.1 53.2 79.8



#51
4-Methyl-2-Pentanone
Concen: 4.06 ug/l
RT: 8.41 min Scan# 799
Delta R.T. 0.00 min
Lab File: VF060086.D
Acq: 24 Aug 2018 8:16

Tgt Ion: 43 Resp: 6445
Ion Ratio Lower Upper
43 100
58 28.2 28.6 42.8#





#52

Toluene

Concen: Below Cal

RT: 7.79 min Scan# 736

Delta R.T. 0.00 min

Lab File: VF060086.D

Acq: 24 Aug 2018 8:16

Instrument :

MSVOA_F

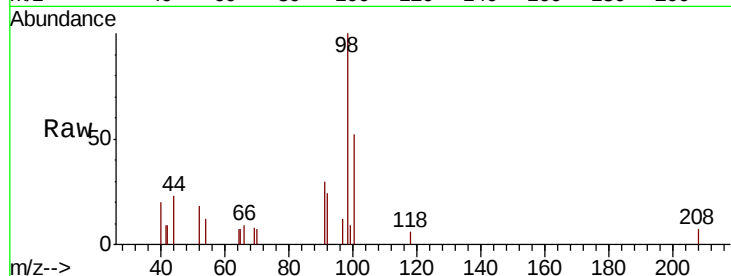
ClientSampled :

Tot Ion: 92 Resp: 998

Ion Ratio Lower Upper

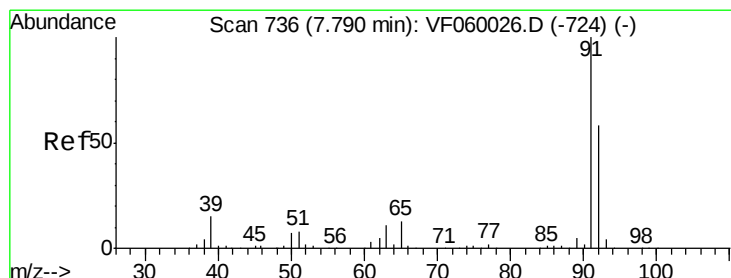
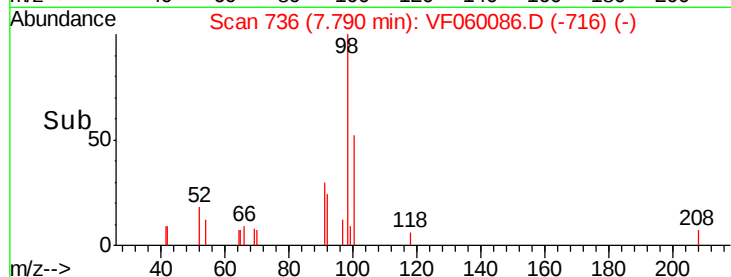
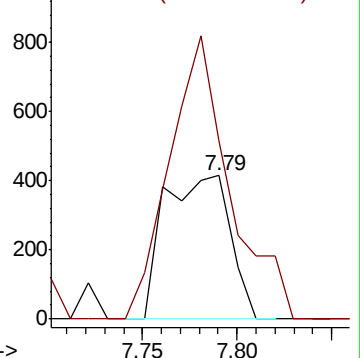
92 100

91 124.3 137.7 206.5#



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 1.55 ug/l

RT: 7.78 min Scan# 735

Delta R.T. -0.01 min

Lab File: VF060086.D

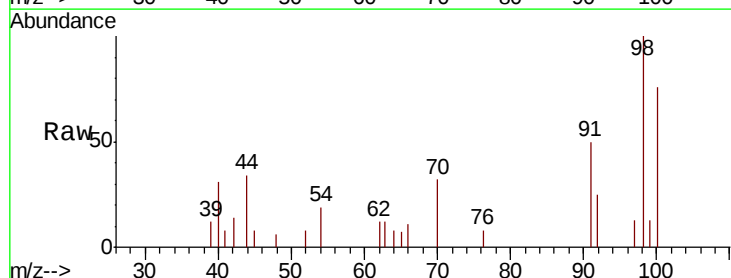
Acq: 24 Aug 2018 8:16

Tgt Ion: 63 Resp: 214

Ion Ratio Lower Upper

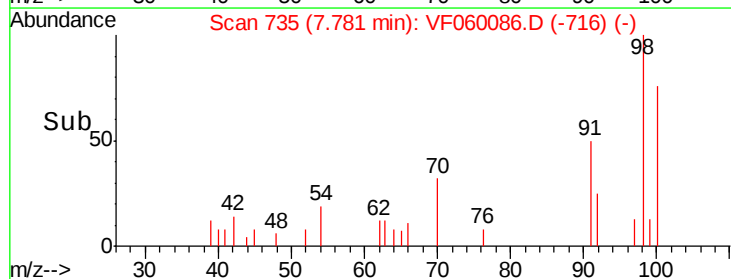
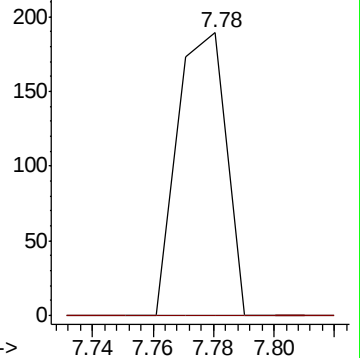
63 100

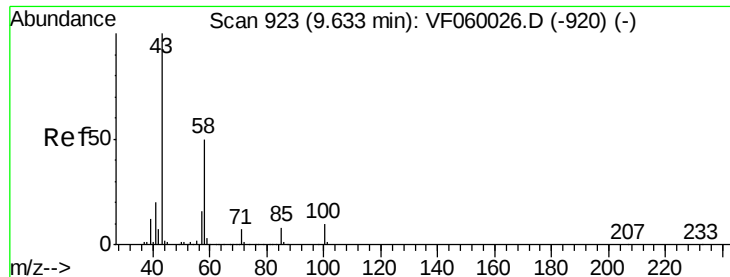
106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

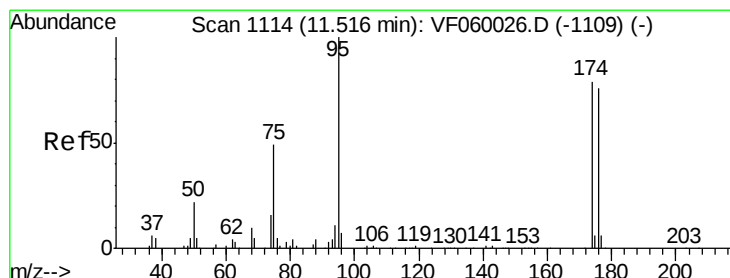
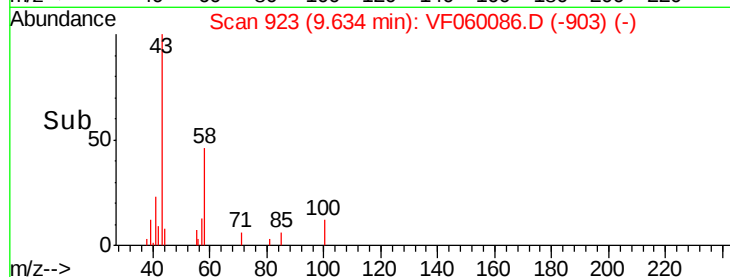
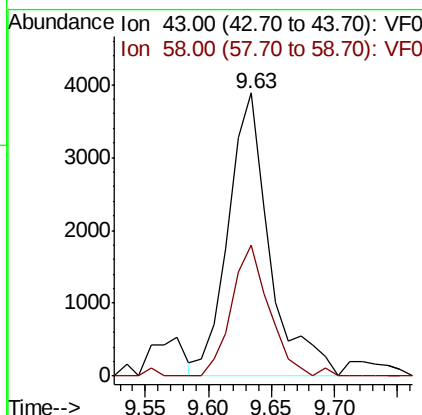
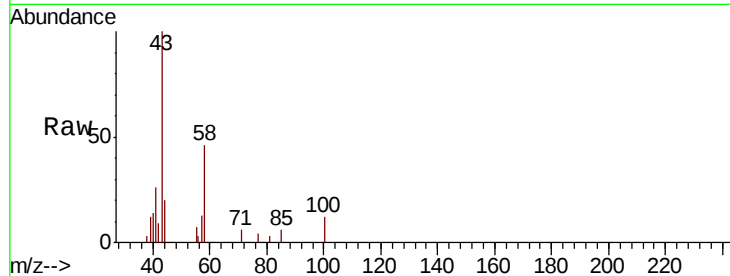




#59
 2-Hexanone
 Concen: 6.86 ug/l
 RT: 9.63 min Scan# 923
 Delta R.T. 0.00 min
 Lab File: VF060086.D
 Acq: 24 Aug 2018 8:16

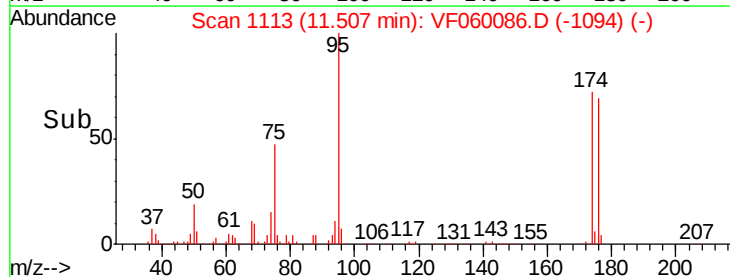
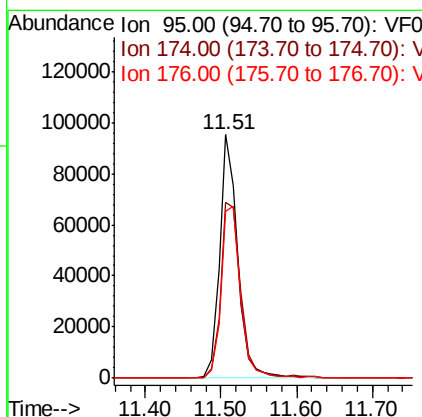
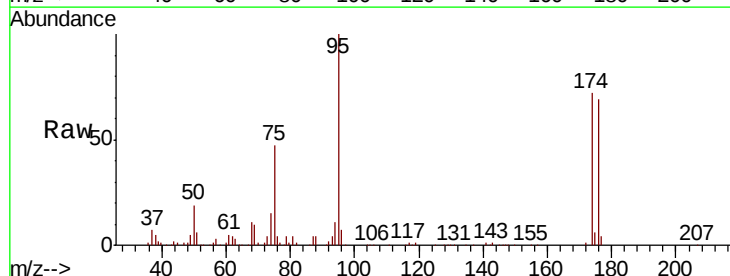
Instrument :
 MSVOA_F
 ClientSampleId :

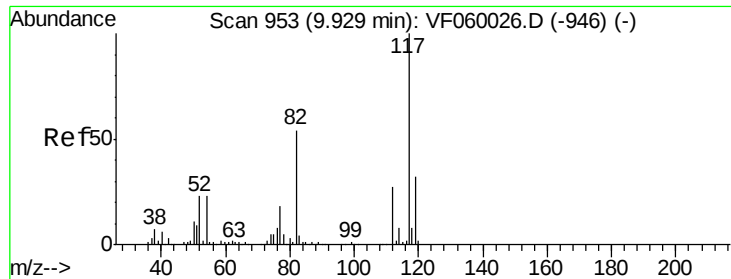
Tot Ion: 43 Resp: 8812
 Ion Ratio Lower Upper
 43 100
 58 46.3 23.4 70.2



#62
 4-Bromofluorobenzene
 Concen: 52.21 ug/l
 RT: 11.51 min Scan# 1113
 Delta R.T. -0.01 min
 Lab File: VF060086.D
 Acq: 24 Aug 2018 8:16

Tgt Ion: 95 Resp: 159994
 Ion Ratio Lower Upper
 95 100
 174 72.2 0.0 158.4
 176 68.5 0.0 153.0

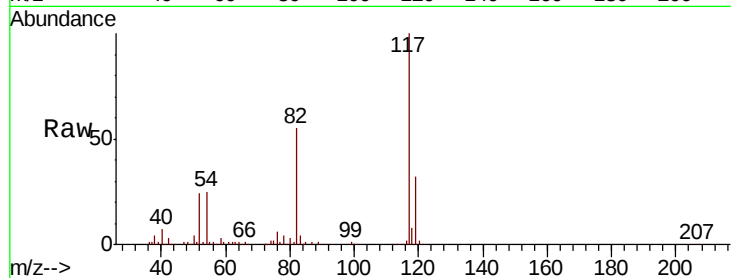




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.92 min Scan# 952
Delta R.T. -0.01 min
Lab File: VF060086.D
Acq: 24 Aug 2018 8:16

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.3	43.6	65.4
119	32.4	25.6	38.4

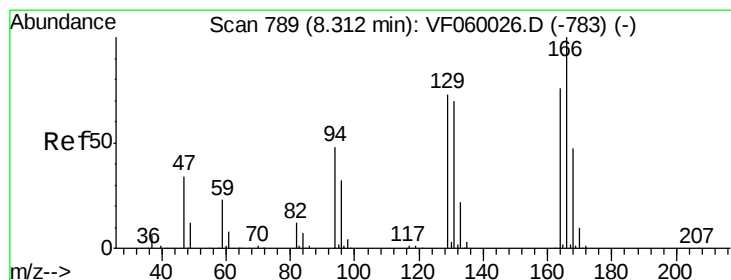
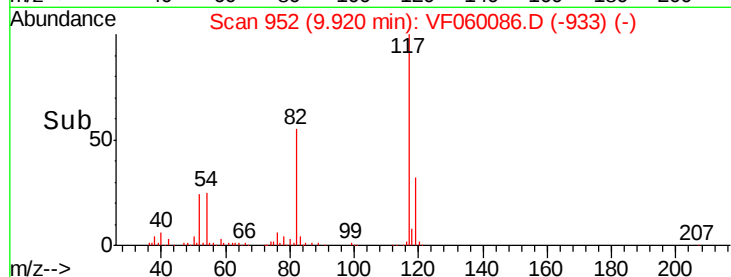
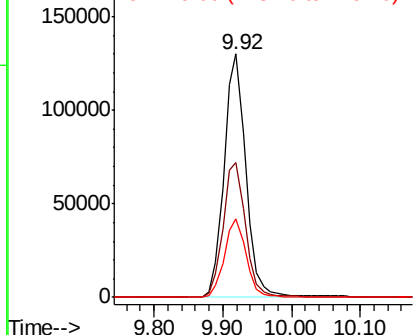


Abundance

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



#64
Tetrachloroethene
Concen: 1.69 ug/l
RT: 8.30 min Scan# 788
Delta R.T. -0.01 min
Lab File: VF060086.D
Acq: 24 Aug 2018 8:16

Tgt Ion	Ratio	Lower	Upper
164	100		
166	135.1	104.7	157.1
129	91.8	77.0	115.4
131	96.5	72.9	109.3

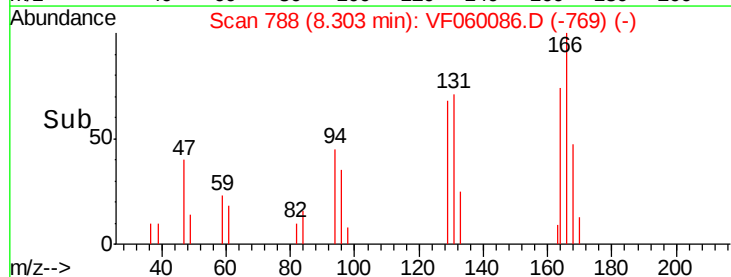
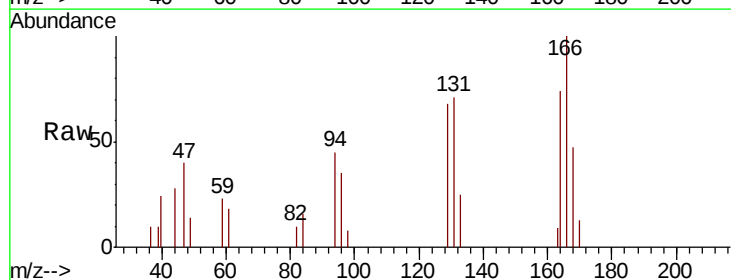
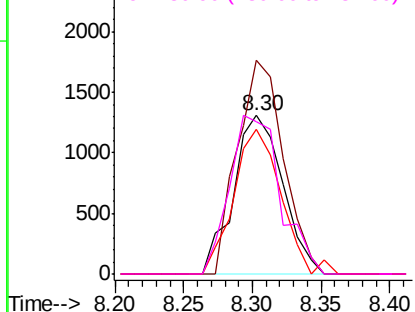
Abundance

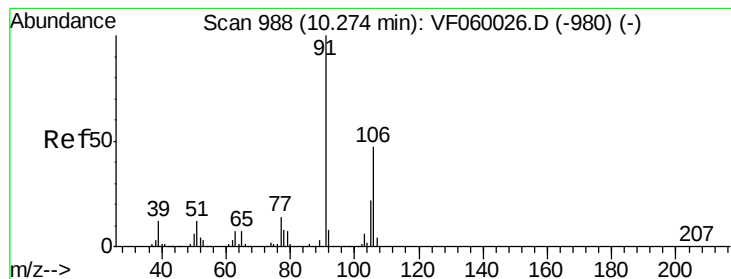
Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V





#68

m/p-Xvlenes

Concen: Below Cal

RT: 10.27 min Scan# 988

Delta R.T. 0.00 min

Lab File: VF060086.D

Acq: 24 Aug 2018 8:16

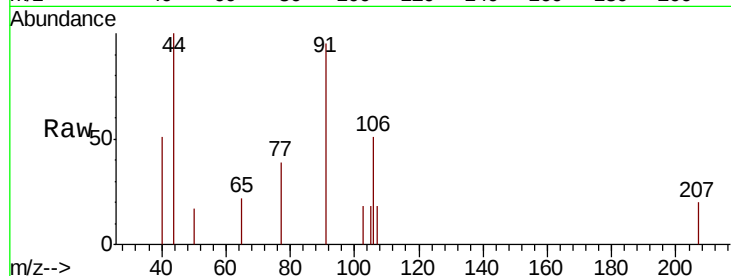
Instrument :
MSVOA_F
ClientSampled :

Tot Ion:106 Resp: 739

Ion Ratio Lower Upper

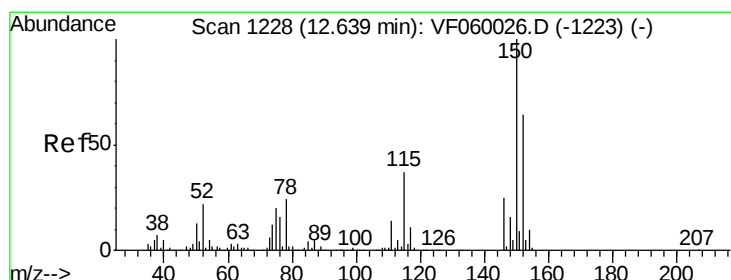
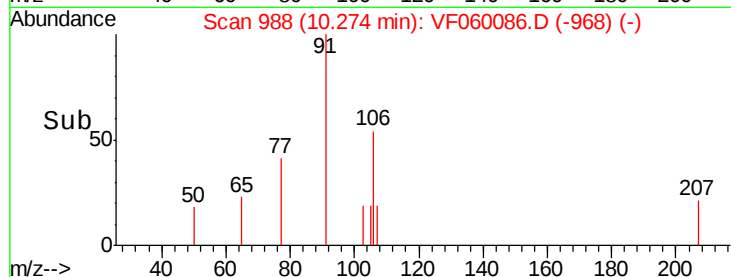
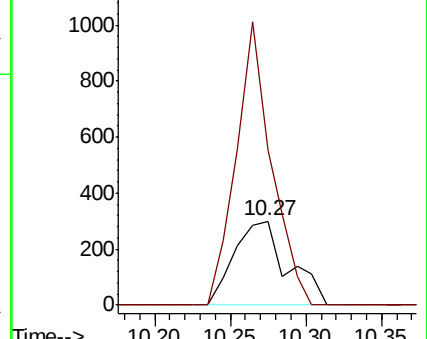
106 100

91 184.7 171.8 257.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.63 min Scan# 1227

Delta R.T. -0.01 min

Lab File: VF060086.D

Acq: 24 Aug 2018 8:16

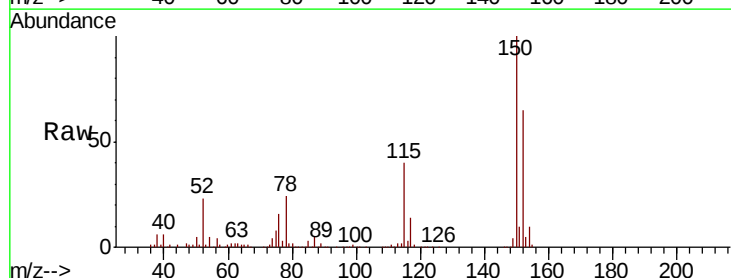
Tgt Ion:152 Resp: 162737

Ion Ratio Lower Upper

152 100

115 61.6 28.6 85.9

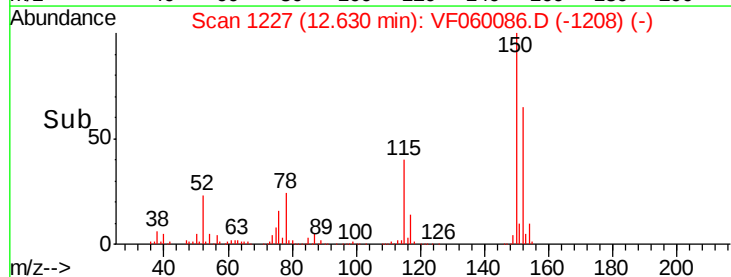
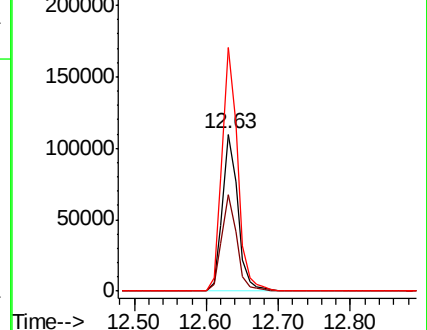
150 154.9 0.0 312.0

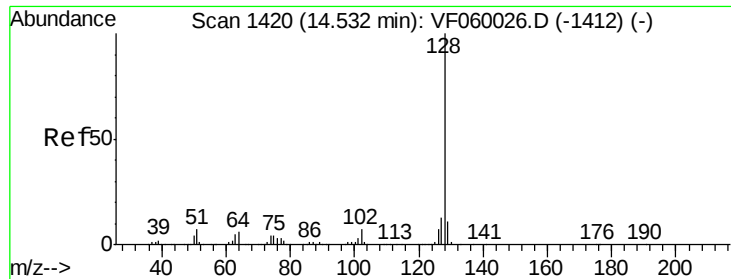


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#95
 Naphthalene
 Concen: 2.83 ug/l
 RT: 14.52 min Scan# 1419
 Delta R.T. -0.01 min
 Lab File: VF060086.D
 Acq: 24 Aug 2018 8:16

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	10.4	10.4	15.6
129	10.1	8.5	12.7

