

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF071918\
 Data File : VF059578.D
 Acq On : 20 Jul 2018 1:57
 Operator : VA/AP
 Sample : J4057-17
 Misc : 6.60q/5mL/MSVOA F/SOIL
 ALS Vial : 70 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jul 20 07:10:02 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F071718S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 18 04:09:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	45918	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.77	114	53518	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.92	117	32307	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.63	152	8885	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.02	65	11490	16.09	ug/l	-0.02
Spiked Amount				50.000		
Recovery						32.18%
35) Dibromofluoromethane	4.29	113	16375	35.33	ug/l	-0.02
Spiked Amount				50.000		
Recovery						70.66%
50) Toluene-d8	7.71	98	44247	37.90	ug/l	-0.02
Spiked Amount				50.000		
Recovery						75.80%
62) 4-Bromofluorobenzene	11.51	95	12121	19.79	ug/l	-0.02
Spiked Amount				50.000		
Recovery						39.58%

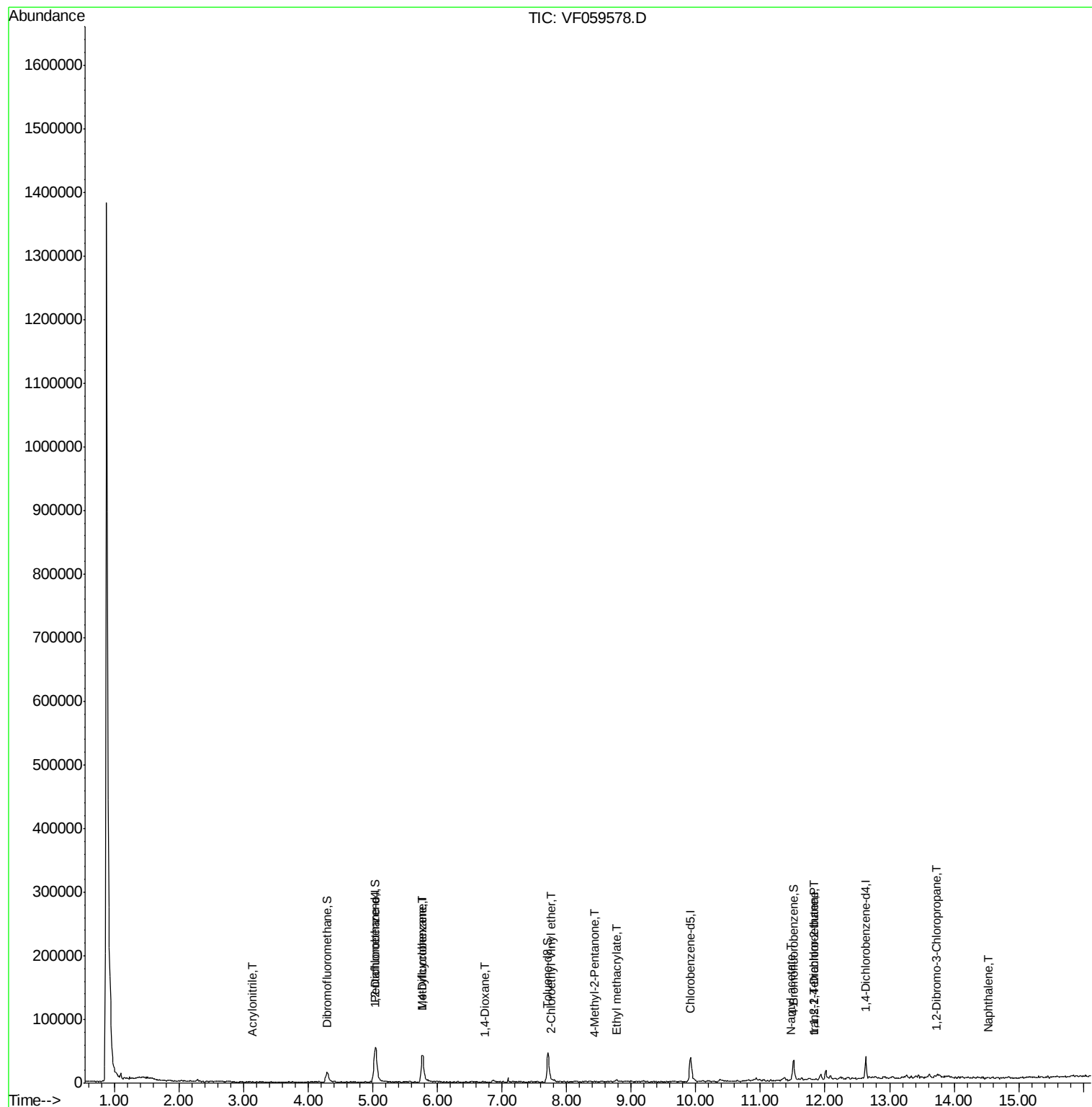
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.73	59	79	Below Cal	#	74
13) Acrolein	2.06	56	142	Below Cal	#	73
15) Acrylonitrile	3.14	53	70	1.168	ug/l #	13
16) Acetone	2.32	43	105	Below Cal	#	64
18) Methyl Acetate	2.44	43	245	Below Cal	#	67
20) Methylene Chloride	2.37	84	62	Below Cal	#	1
29) Tetrahydrofuran	4.29	42	167	Below Cal	#	38
37) Ethyl Acetate	4.30	43	331	Below Cal	#	41
39) Methylcyclohexane	5.77	83	955	2.349	ug/l #	37
49) 1,4-Dioxane	6.73	88	148	94.375	ug/l #	46
51) 4-Methyl-2-Pentanone	8.42	43	468	1.715	ug/l #	40
56) Ethyl methacrylate	8.78	69	1787	4.934	ug/l #	60
58) 2-Chloroethyl Vinyl ether	7.77	63	69	2.158	ug/l	100
74) N-amyl acetate	11.46	43	540	3.007	ug/l #	63
75) 1,1,2,2-Tetrachloroethane	11.82	83	230	1.881	ug/l #	26
81) trans-1,4-Dichloro-2-buten	11.83	75	60	1.315	ug/l #	6
92) 1,2-Dibromo-3-Chloropropan	13.72	75	106	3.826	ug/l #	8
95) Naphthalene	14.52	128	603	1.853	ug/l #	69

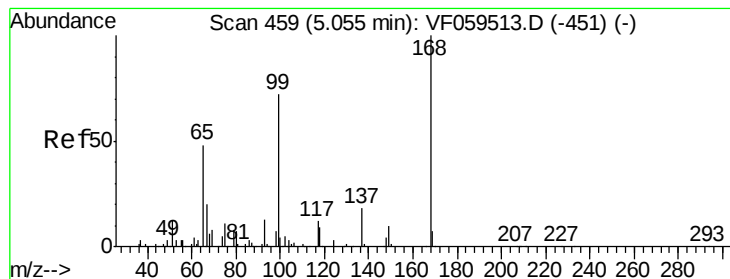
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jul 18 04:09:10 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 457

Delta R.T. -0.02 min

Lab File: VF059578.D

Acq: 20 Jul 2018 1:57

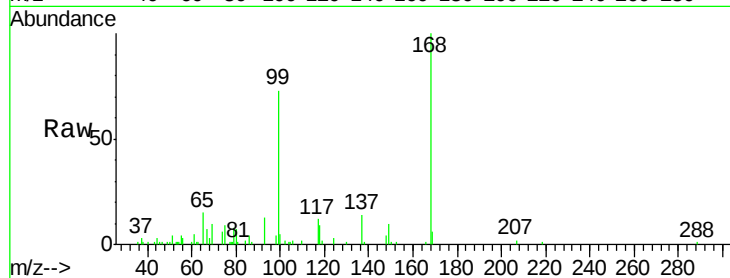
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 45918

Ion Ratio Lower Upper

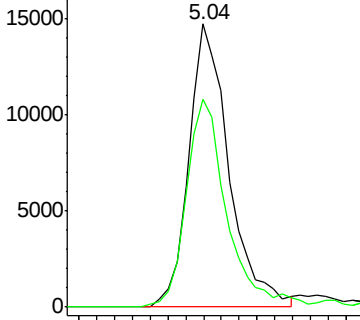
168 100

99 73.3 57.6 86.4

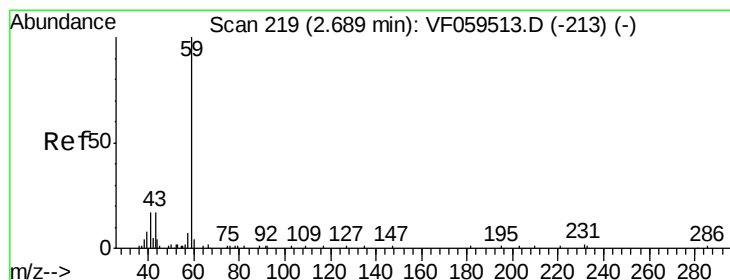
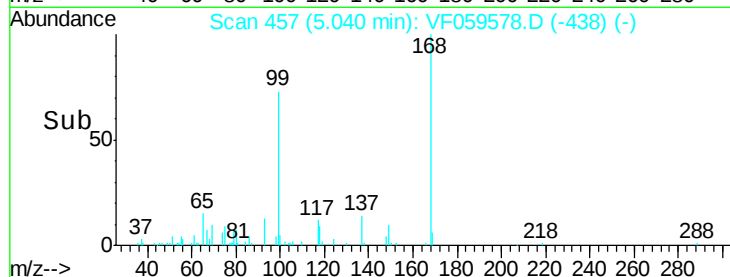


Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0



Time--> 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.73 min Scan# 223

Delta R.T. 0.04 min

Lab File: VF059578.D

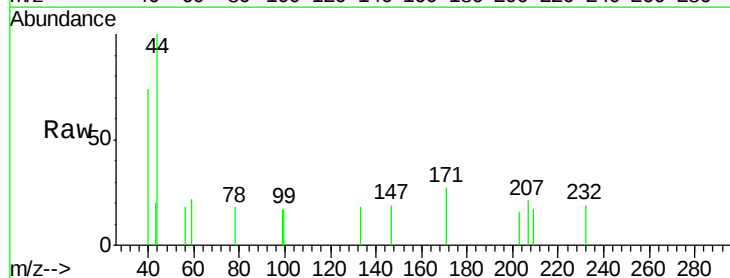
Acq: 20 Jul 2018 1:57

Tgt Ion: 59 Resp: 79

Ion Ratio Lower Upper

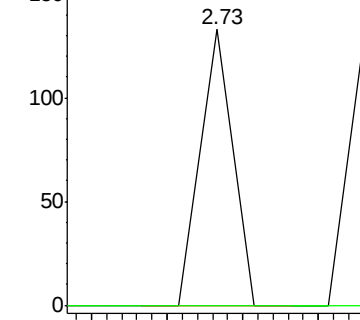
59 100

57 0.0 7.7 11.5#

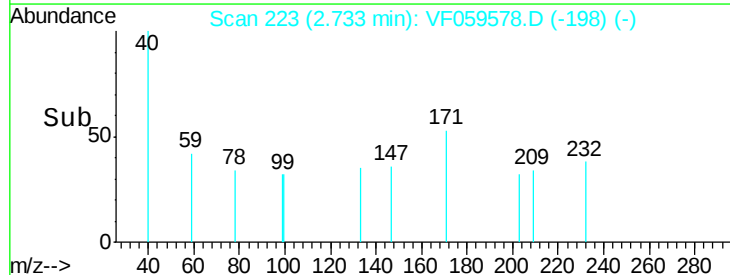


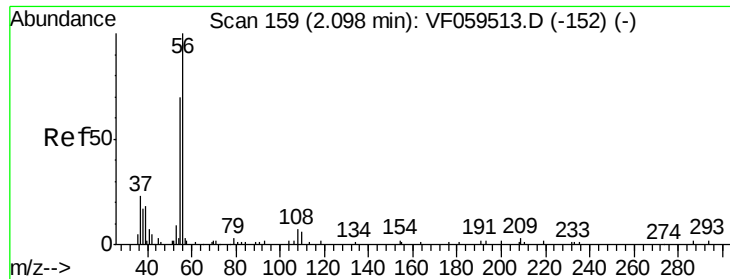
Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0



Time--> 2.70 2.72 2.74 2.76





#13

Acrolein

Concen: Below Cal

RT: 2.06 min Scan# 155

Delta R.T. -0.03 min

Lab File: VF059578.D

Acq: 20 Jul 2018 1:57

Instrument :

MSVOA_F

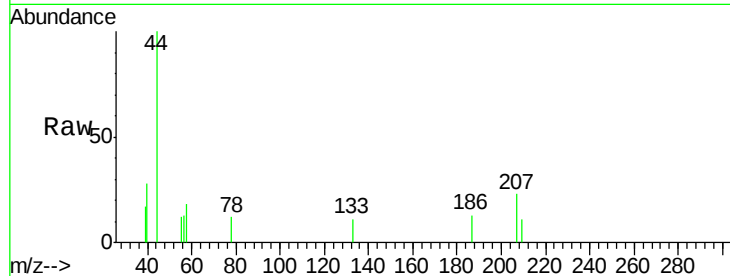
ClientSampled :

Tot Ion: 56 Resp: 142

Ion Ratio Lower Upper

56 100

55 97.6 59.4 89.2#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

2.06

150

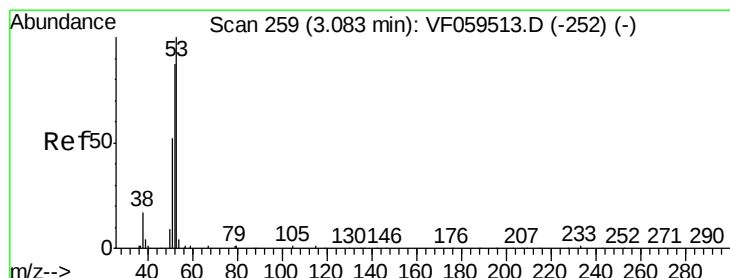
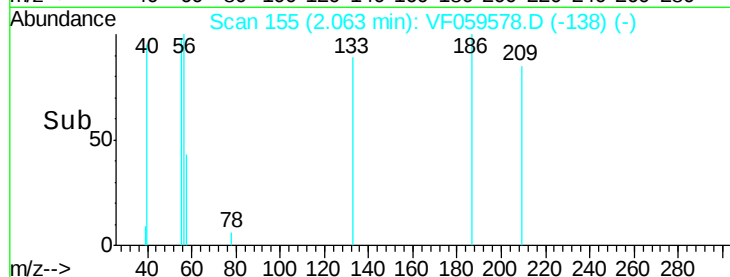
100

50

0

2.04 2.06 2.08

Time-->



#15

Acrylonitrile

Concen: 1.168 ug/l

RT: 3.14 min Scan# 264

Delta R.T. 0.05 min

Lab File: VF059578.D

Acq: 20 Jul 2018 1:57

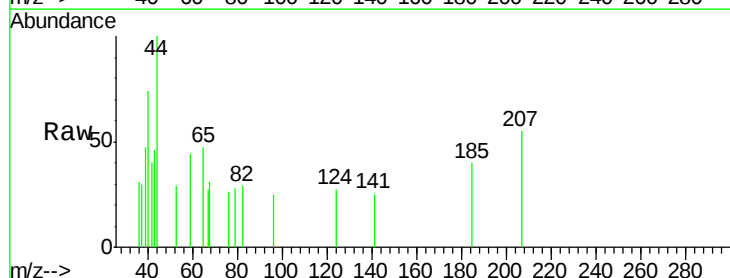
Tgt Ion: 53 Resp: 70

Ion Ratio Lower Upper

53 100

52 0.0 70.1 105.1#

51 0.0 42.5 63.7#



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

300

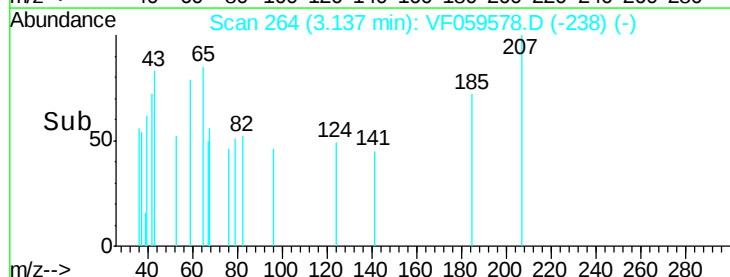
200

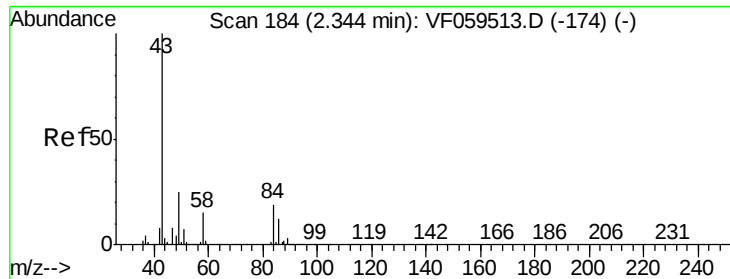
100

0

3.10 3.12 3.14 3.16

Time-->





#16

Acetone

Concen: Below Cal

RT: 2.32 min Scan# 181

Delta R.T. -0.02 min

Lab File: VF059578.D

Acq: 20 Jul 2018 1:57

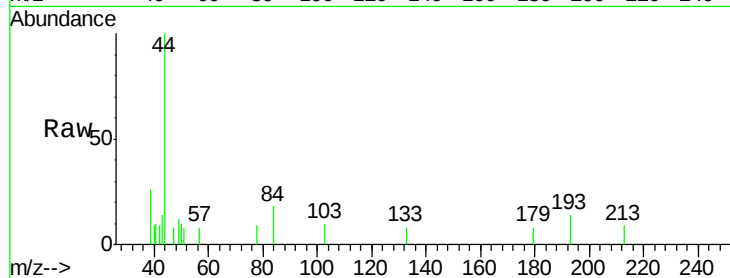
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 105

Ion Ratio Lower Upper

43 100

58 0.0 11.8 17.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2.32

150

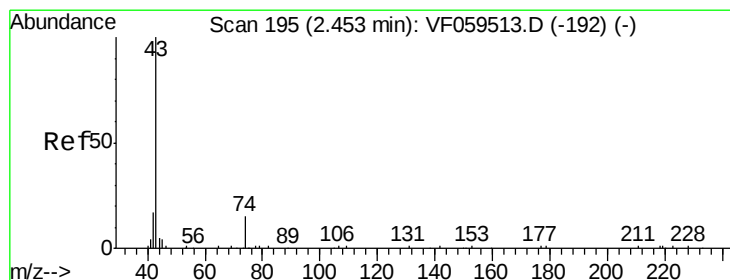
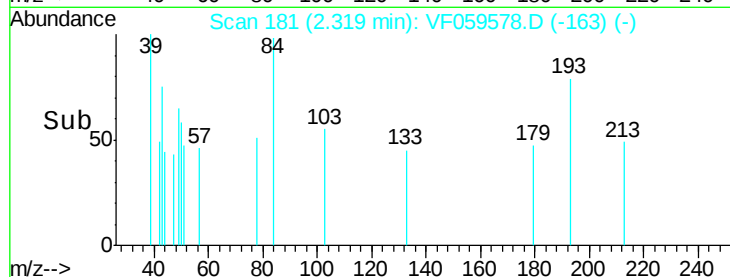
100

50

0

Time-->

2.30 2.32 2.34



#18

Methyl Acetate

Concen: Below Cal

RT: 2.44 min Scan# 193

Delta R.T. -0.01 min

Lab File: VF059578.D

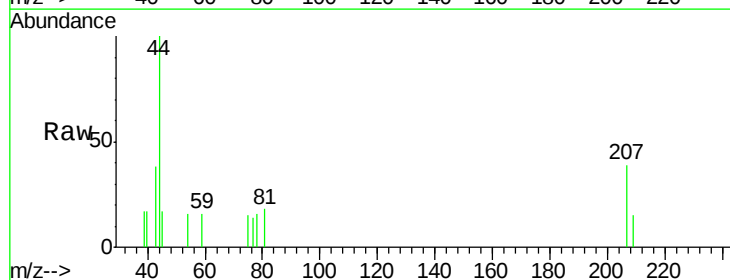
Acq: 20 Jul 2018 1:57

Tgt Ion: 43 Resp: 245

Ion Ratio Lower Upper

43 100

74 0.0 10.6 15.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

2.44

300

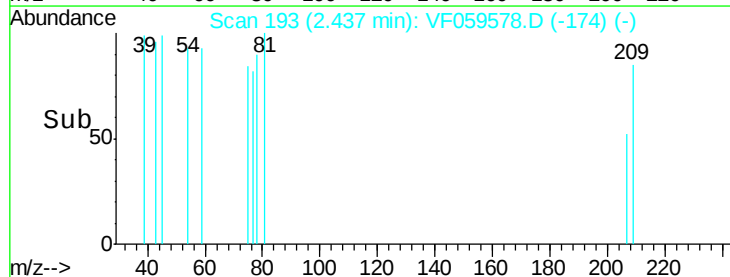
200

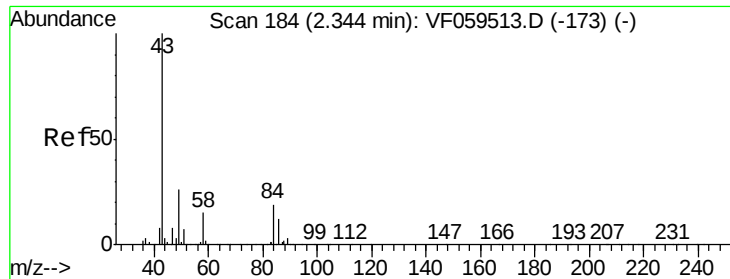
100

0

Time-->

2.40 2.42 2.44 2.46 2.48

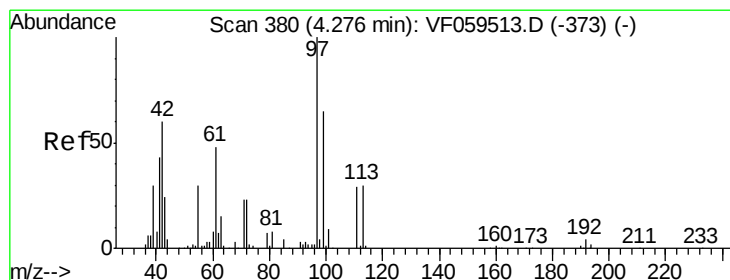
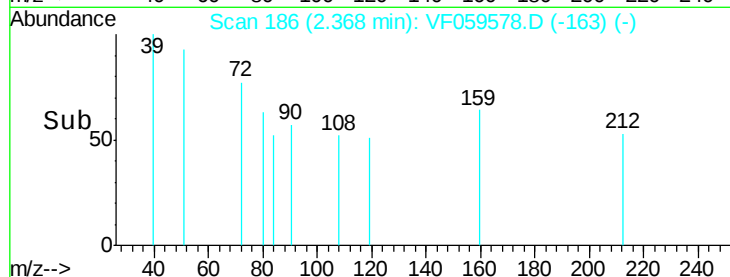
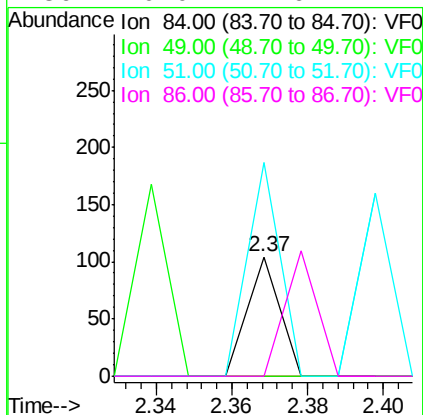
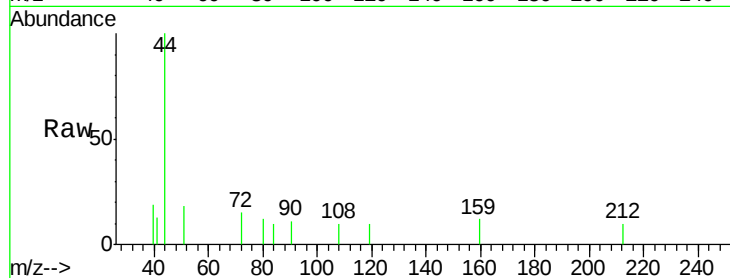




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.37 min Scan# 186
Delta R.T. 0.02 min
Lab File: VF059578.D
Acq: 20 Jul 2018 1:57

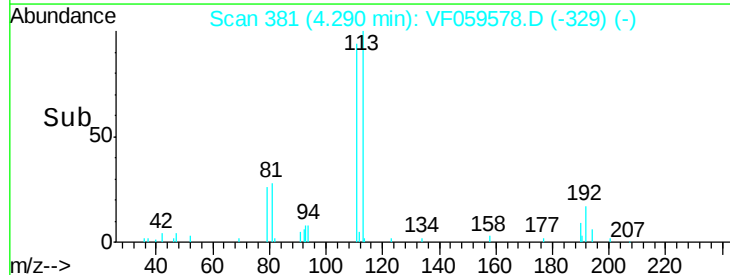
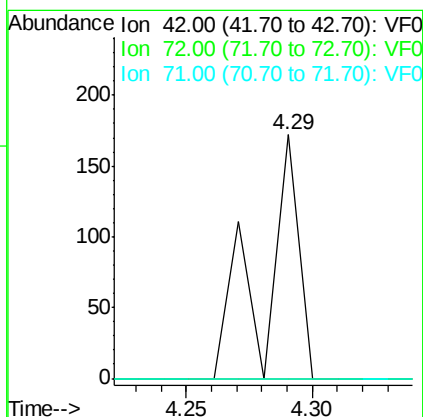
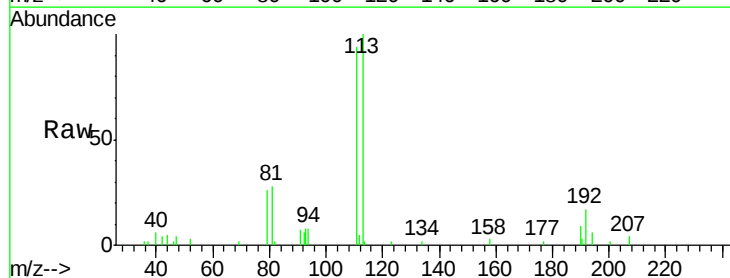
Instrument :
MSVOA_F
ClientSampleId :

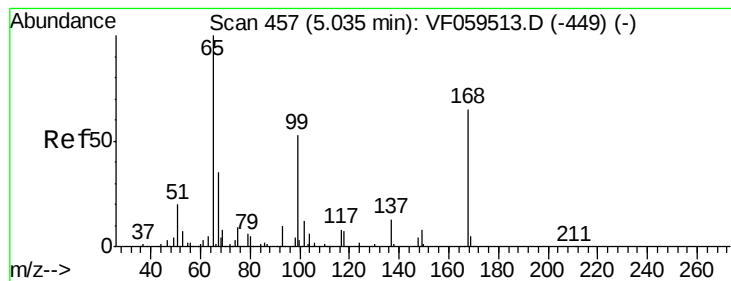
Tot Ion: 84 Resp: 62
Ion Ratio Lower Upper
84 100
49 0.0 109.4 164.2#
51 179.8 30.5 45.7#
86 0.0 47.6 71.4#



#29
Tetrahydrofuran
Concen: Below Cal
RT: 4.29 min Scan# 381
Delta R.T. 0.01 min
Lab File: VF059578.D
Acq: 20 Jul 2018 1:57

Tgt Ion: 42 Resp: 167
Ion Ratio Lower Upper
42 100
72 0.0 28.7 43.1#
71 0.0 30.8 46.2#





#33

1,2-Dichloroethane-d4

Concen: 16.089 ug/l

RT: 5.02 min Scan# 455

Delta R.T. -0.02 min

Lab File: VF059578.D

Acq: 20 Jul 2018 1:57

Instrument :

MSVOA_F

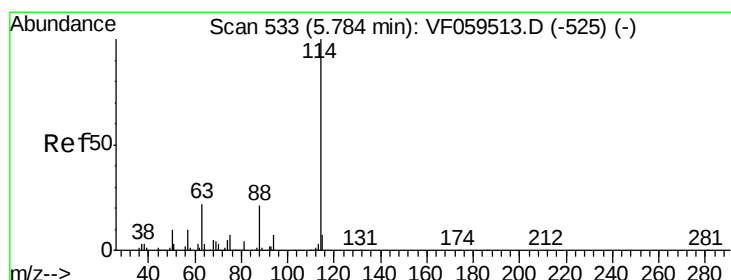
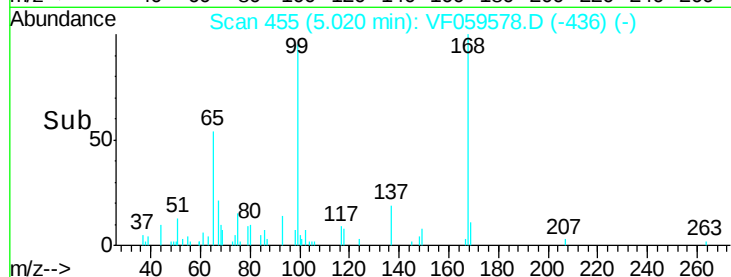
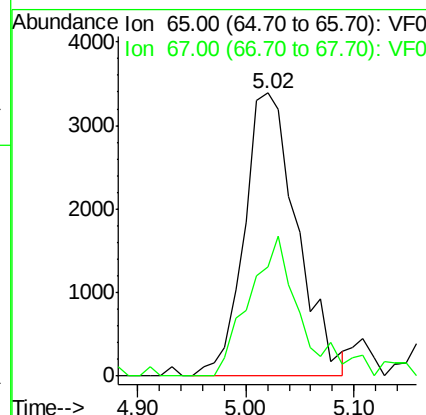
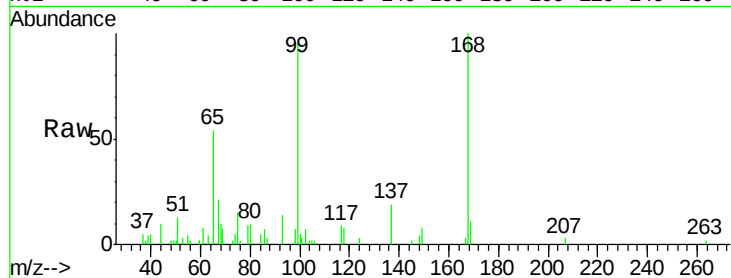
ClientSampleId :

Tot Ion: 65 Resp: 11490

Ion Ratio Lower Upper

65 100

67 38.8 0.0 91.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.77 min Scan# 531

Delta R.T. -0.02 min

Lab File: VF059578.D

Acq: 20 Jul 2018 1:57

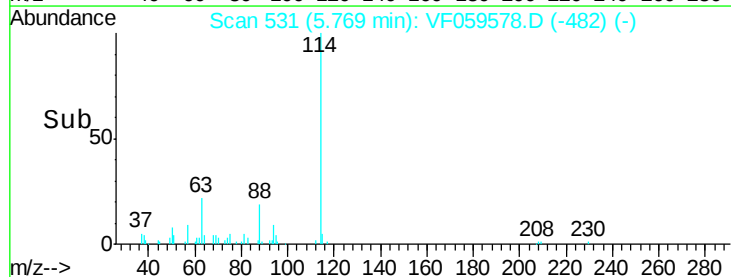
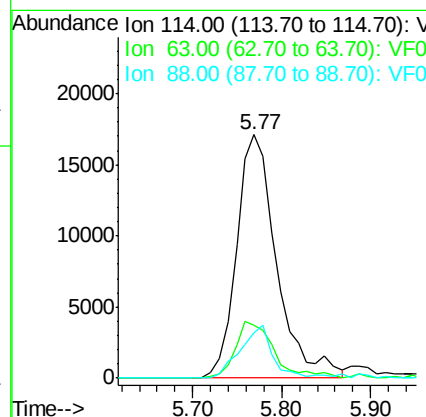
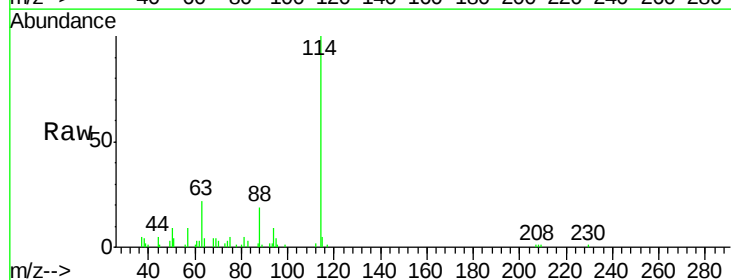
Tgt Ion: 114 Resp: 53518

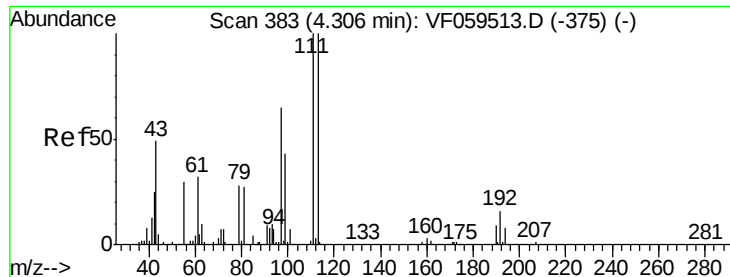
Ion Ratio Lower Upper

114 100

63 21.6 0.0 44.8

88 18.7 0.0 42.6





#35

Dibromofluoromethane

Concen: 35.328 ug/l

RT: 4.29 min Scan# 381

Delta R.T. -0.02 min

Lab File: VF059578.D

Acq: 20 Jul 2018 1:57

Instrument :
MSVOA_F
ClientSampleId :

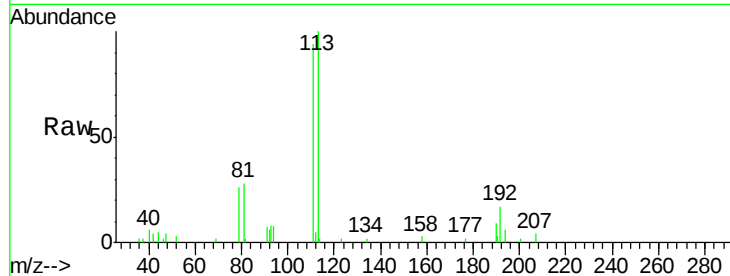
Tot Ion:113 Resp: 16375

Ion Ratio Lower Upper

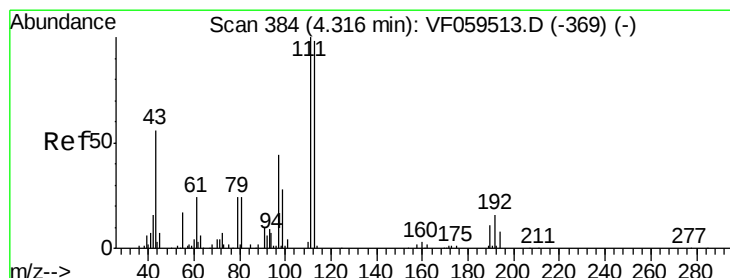
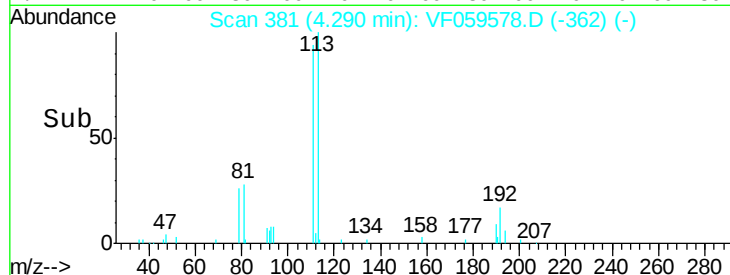
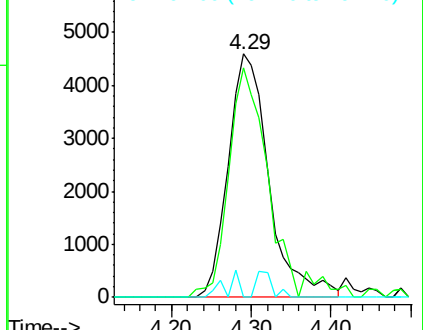
113 100

111 92.2 80.3 120.5

192 0.0 13.1 19.7#



Abundance Ion 113.00 (112.70 to 113.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 192.00 (191.70 to 192.70): V



#37

Ethyl Acetate

Concen: Below Cal

RT: 4.30 min Scan# 382

Delta R.T. -0.01 min

Lab File: VF059578.D

Acq: 20 Jul 2018 1:57

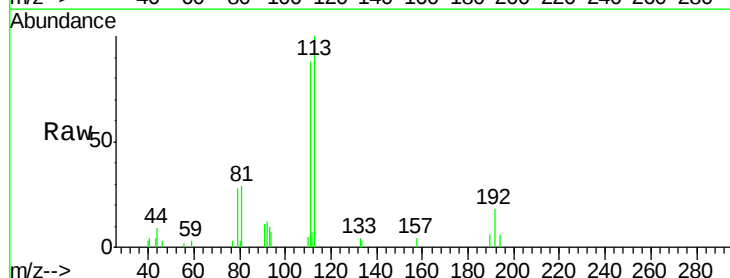
Tgt Ion: 43 Resp: 331

Ion Ratio Lower Upper

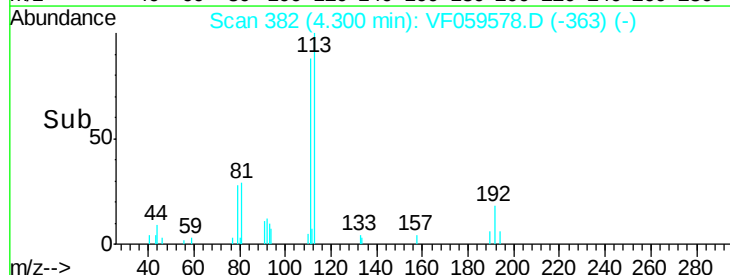
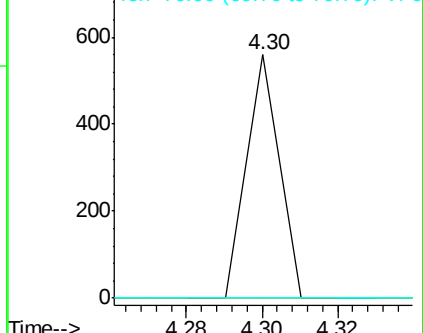
43 100

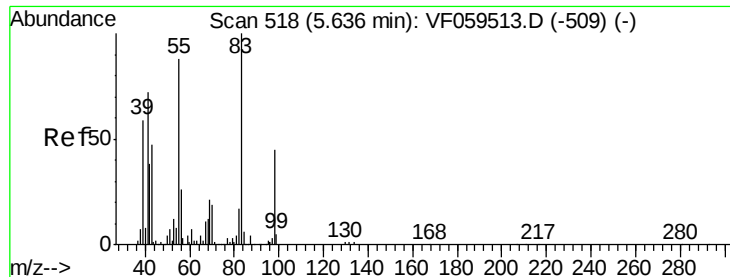
61 0.0 33.7 50.5#

70 0.0 7.4 11.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 70.00 (69.70 to 70.70): VF0

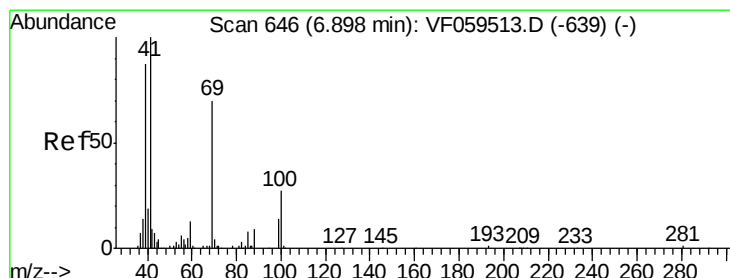
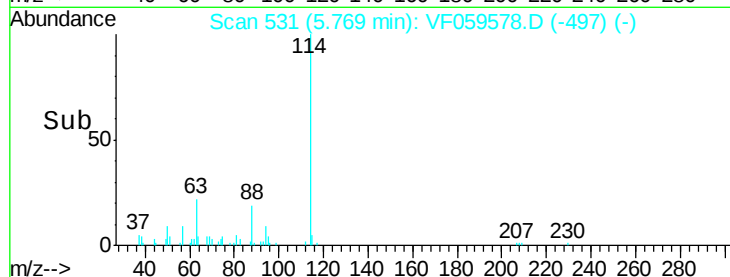
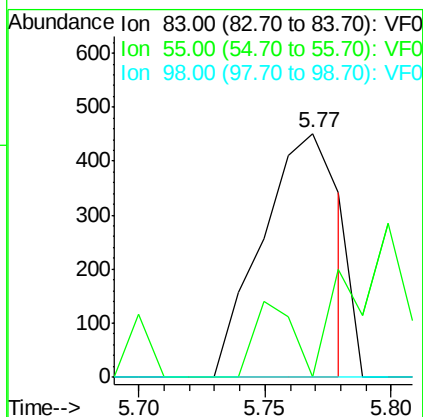
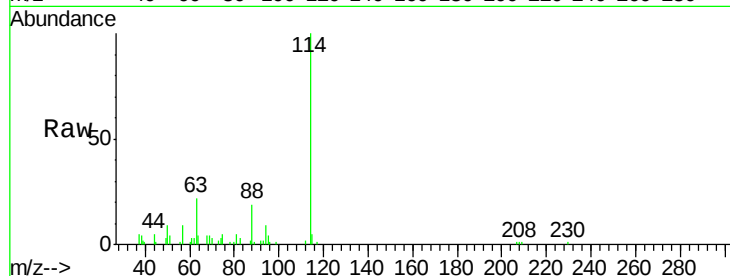




#39
Methvlcvclohexane
Concen: 2.349 ug/l
RT: 5.77 min Scan# 531
Delta R.T. 0.13 min
Lab File: VF059578.D
Acq: 20 Jul 2018 1:57

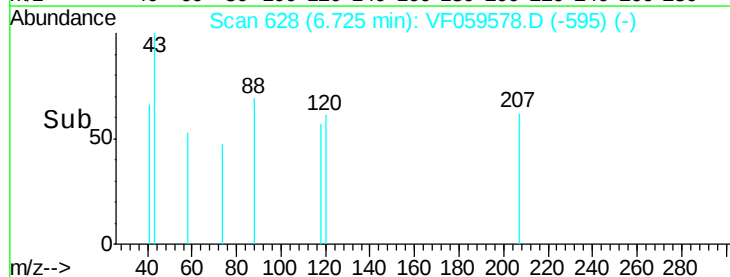
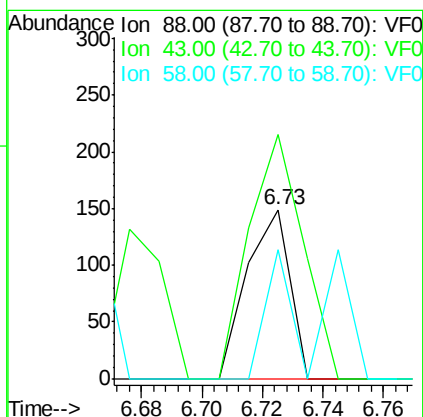
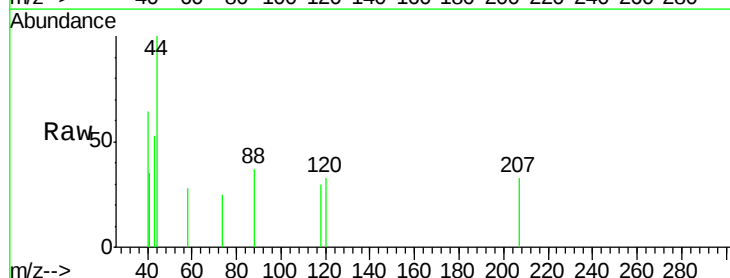
Instrument :
MSVOA_F
ClientSampleId :

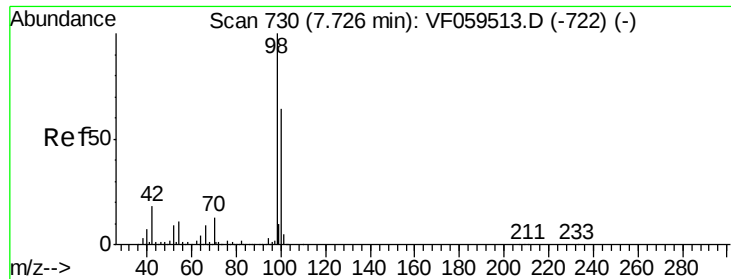
Tot Ion	Ratio	Lower	Upper
83	100		
55	0.0	70.2	105.4#
98	47.2	36.2	54.2



#49
1,4-Dioxane
Concen: 94.375 ug/l
RT: 6.73 min Scan# 628
Delta R.T. -0.17 min
Lab File: VF059578.D
Acq: 20 Jul 2018 1:57

Tgt Ion	Ratio	Lower	Upper
88	100		
43	144.3	64.8	97.2#
58	76.5	44.1	66.1#

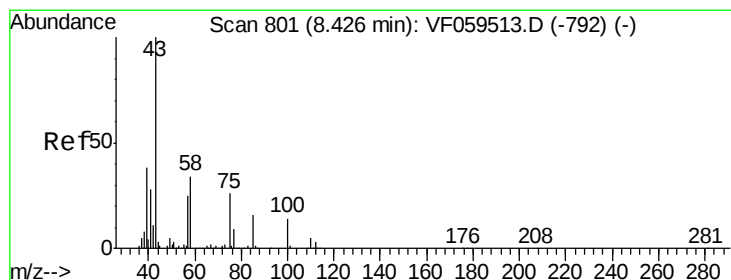
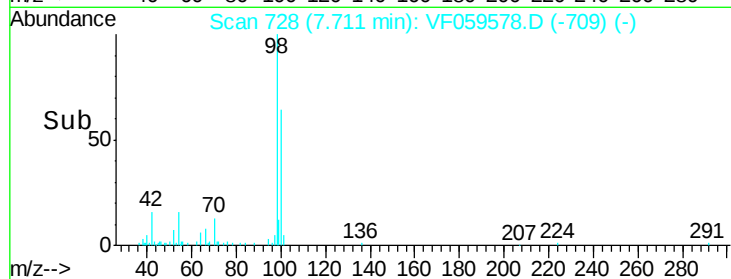
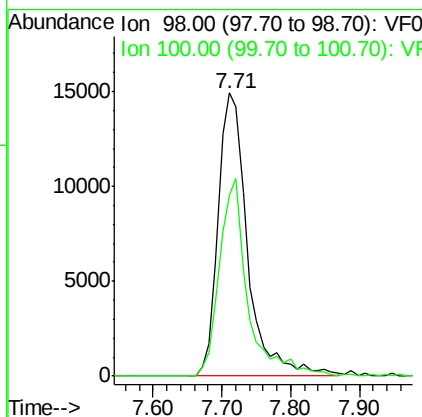
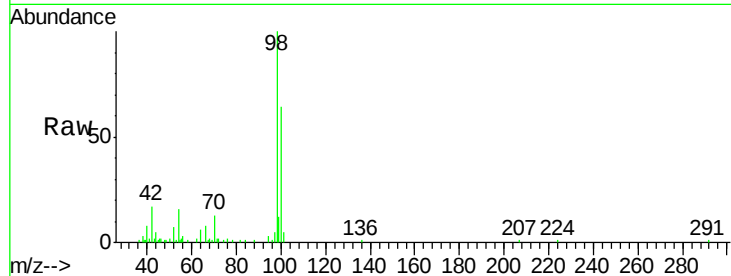




#50
Toluene-d8
Concen: 37.897 ug/l
RT: 7.71 min Scan# 728
Delta R.T. -0.02 min
Lab File: VF059578.D
Acq: 20 Jul 2018 1:57

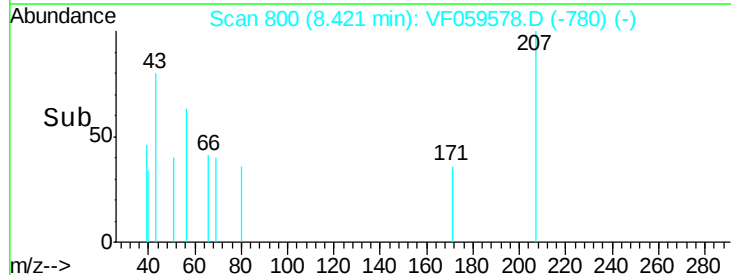
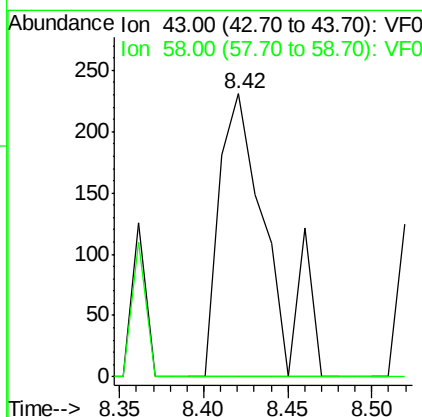
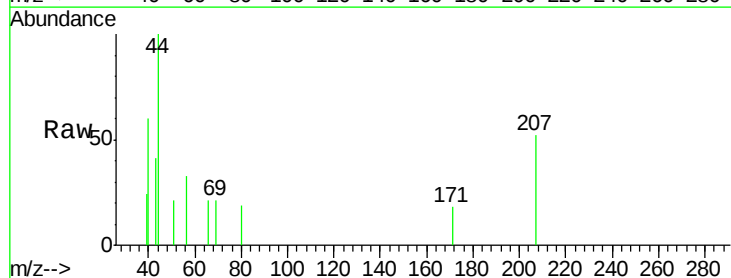
Instrument :
MSVOA_F
ClientSampleId :

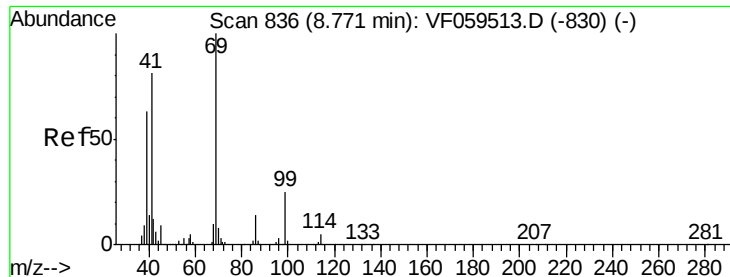
Tot Ion: 98 Resp: 44247
Ion Ratio Lower Upper
98 100
100 63.9 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 1.715 ug/l
RT: 8.42 min Scan# 800
Delta R.T. -0.01 min
Lab File: VF059578.D
Acq: 20 Jul 2018 1:57

Tgt Ion: 43 Resp: 468
Ion Ratio Lower Upper
43 100
58 0.0 27.4 41.2#





#56

Ethyl methacrylate

Concen: 4.934 ug/l

RT: 8.78 min Scan# 836

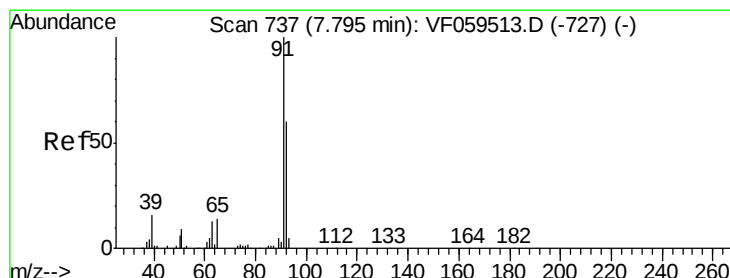
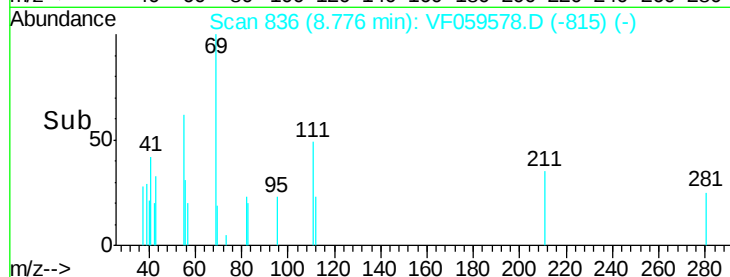
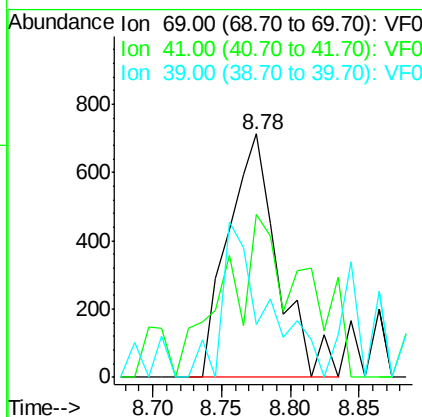
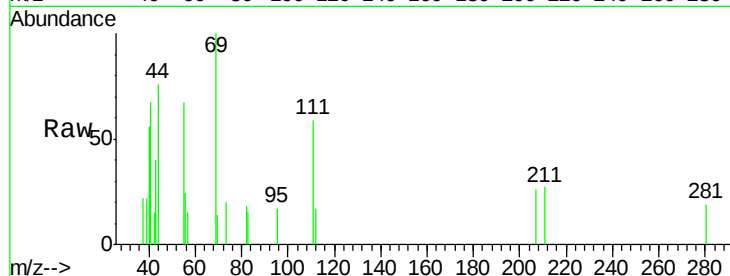
Delta R.T. 0.00 min

Lab File: VF059578.D

Acq: 20 Jul 2018 1:57

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:	69.00	Resp:	1787
Ion	Ratio	Lower	Upper
69	100		
41	58.7	65.4	98.2#
39	19.1	51.0	76.4#



#58

2-Chloroethyl Vinyl ether

Concen: 2.158 ug/l

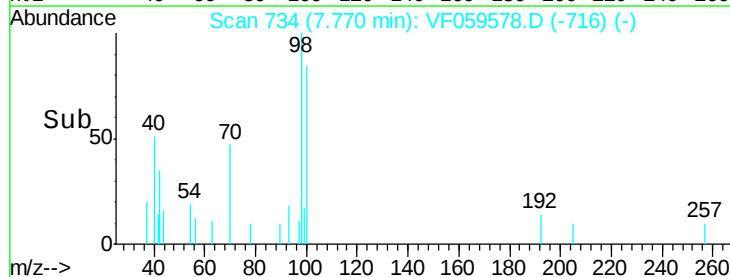
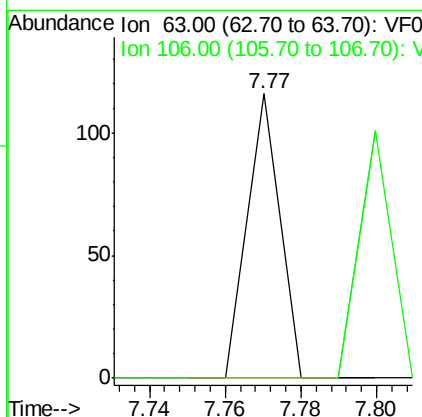
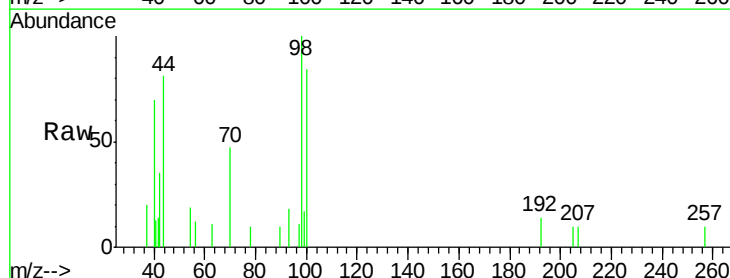
RT: 7.77 min Scan# 734

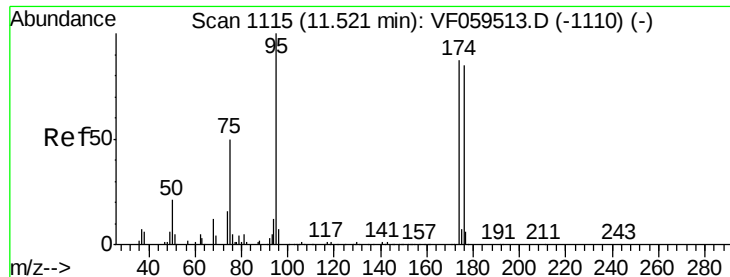
Delta R.T. -0.03 min

Lab File: VF059578.D

Acq: 20 Jul 2018 1:57

Tgt Ion:	63.00	Resp:	69
Ion	Ratio	Lower	Upper
63	100		
106	0.0	0.0	0.0





#62

4-Bromofluorobenzene

Concen: 19.790 ug/l

RT: 11.51 min Scan# 1113

Delta R.T. -0.02 min

Lab File: VF059578.D

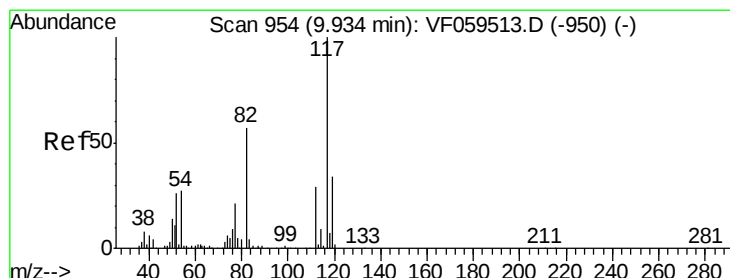
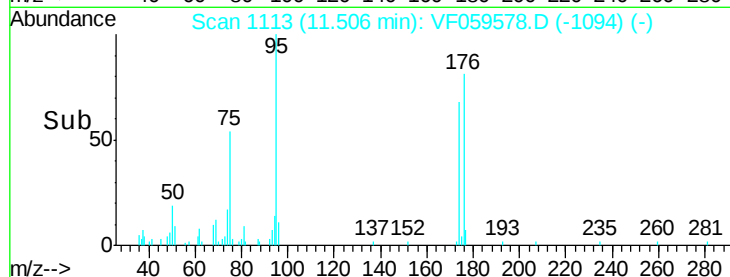
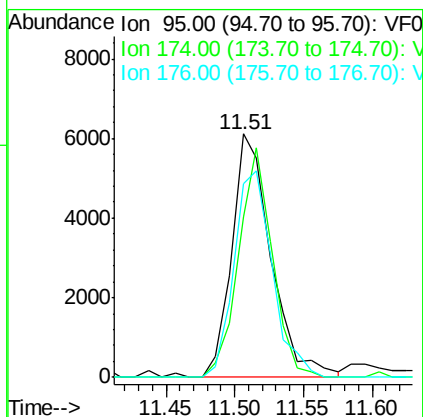
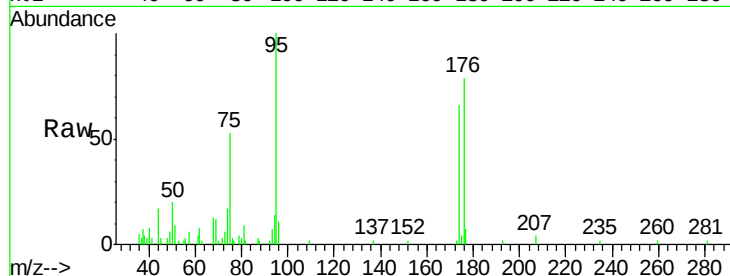
Acq: 20 Jul 2018 1:57

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion:	95	Resp:	12121
Ion	Ratio	Lower	Upper
95	100		
174	66.1	0.0	174.4
176	79.3	0.0	169.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

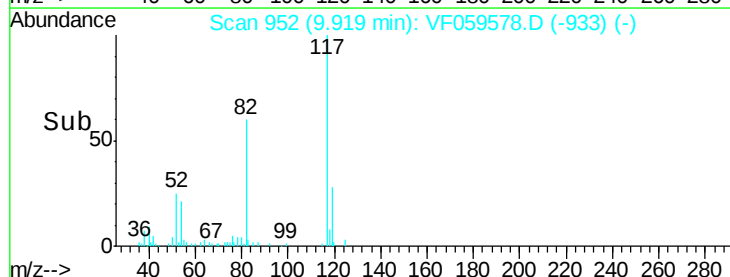
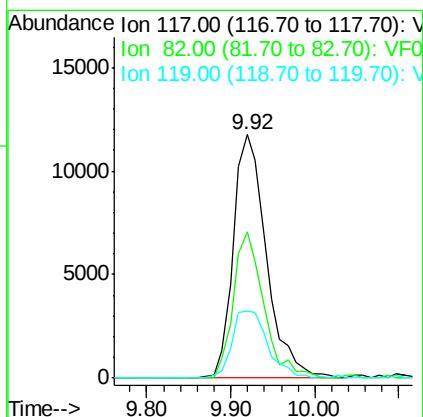
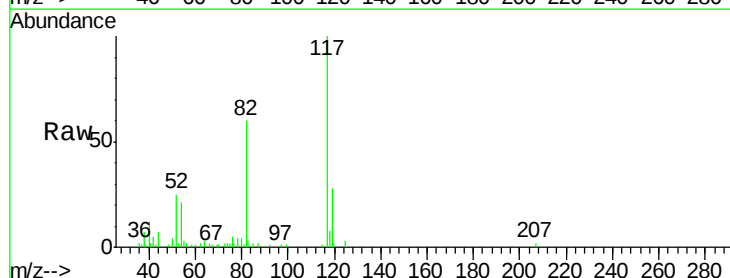
RT: 9.92 min Scan# 952

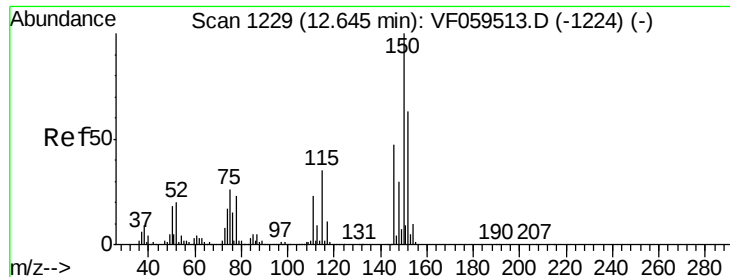
Delta R.T. -0.02 min

Lab File: VF059578.D

Acq: 20 Jul 2018 1:57

Tgt Ion:	117	Resp:	32307
Ion	Ratio	Lower	Upper
117	100		
82	60.3	46.1	69.1
119	27.5	27.2	40.8



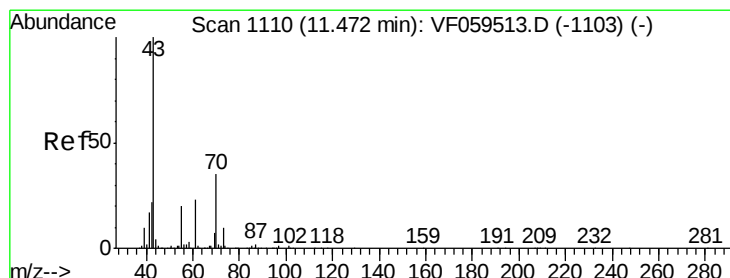
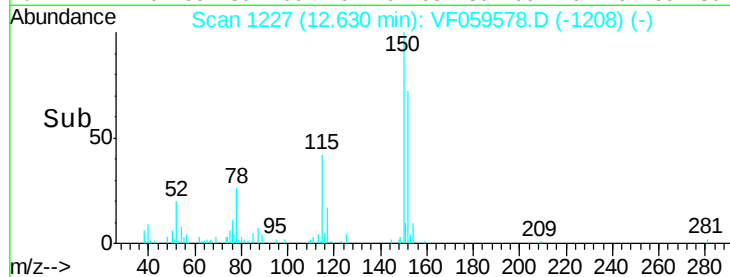
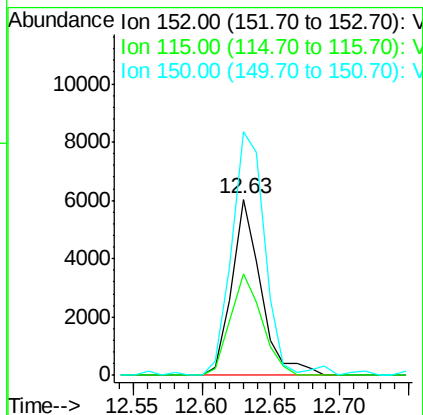
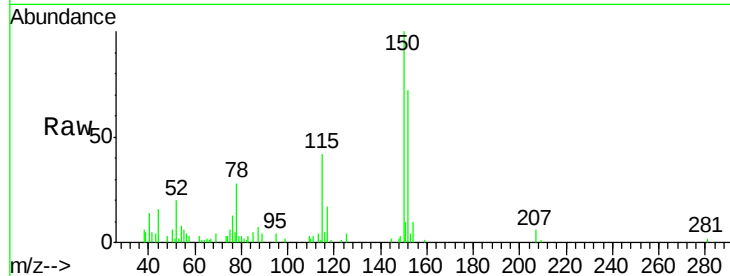


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1227
Delta R.T. -0.02 min
Lab File: VF059578.D
Acq: 20 Jul 2018 1:57

Instrument :
MSVOA_F
ClientSampleId :

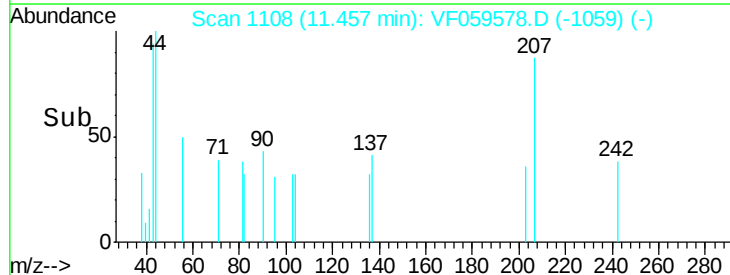
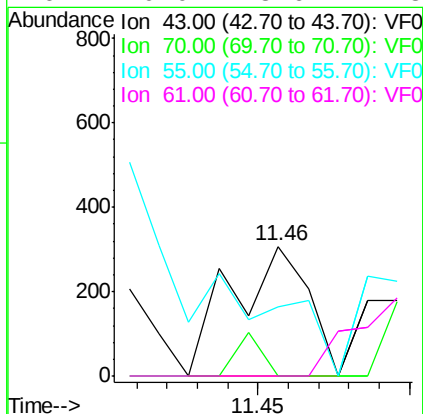
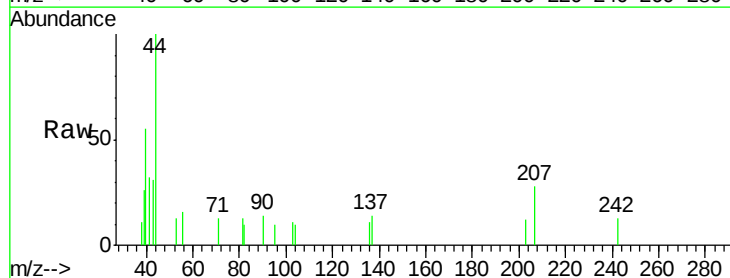
Tot Ion	Ratio	Lower	Upper
152	100		
115	57.5	27.8	83.3
150	138.2	0.0	318.4

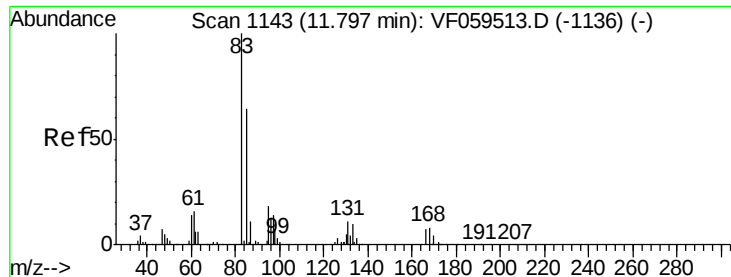


#74

N-ethyl acetate
Concen: 3.007 ug/l
RT: 11.46 min Scan# 1108
Delta R.T. -0.02 min
Lab File: VF059578.D
Acq: 20 Jul 2018 1:57

Tgt Ion	Ratio	Lower	Upper
43	100		
70	41.0	27.9	41.9
55	53.1	16.2	24.2#
61	0.0	18.6	27.8#





#75

1,1,2,2-Tetrachloroethane

Concen: 1.881 ug/l

RT: 11.82 min Scan# 1145

Delta R.T. 0.02 min

Lab File: VF059578.D

Acq: 20 Jul 2018 1:57

Instrument :

MSVOA_F

ClientSampleId :

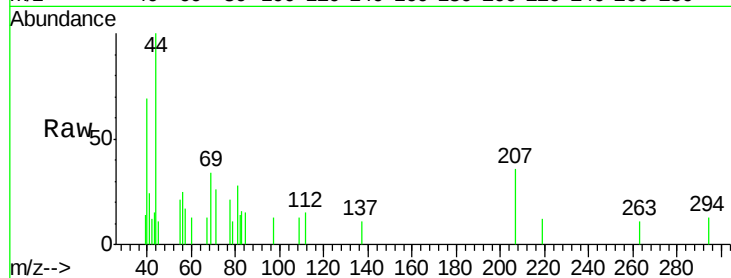
Tot Ion: 83 Resp: 230

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.1#

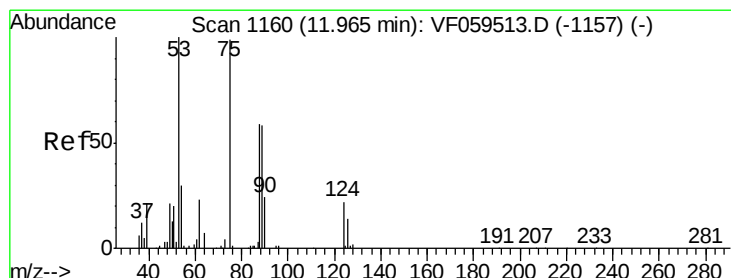
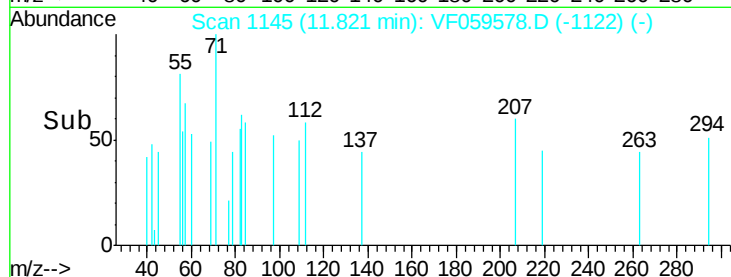
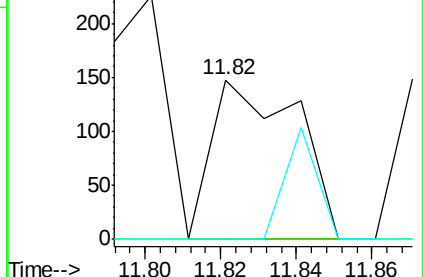
85 0.0 31.9 95.9#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#81

trans-1,4-Dichloro-2-butene

Concen: 1.315 ug/l

RT: 11.83 min Scan# 1146

Delta R.T. -0.13 min

Lab File: VF059578.D

Acq: 20 Jul 2018 1:57

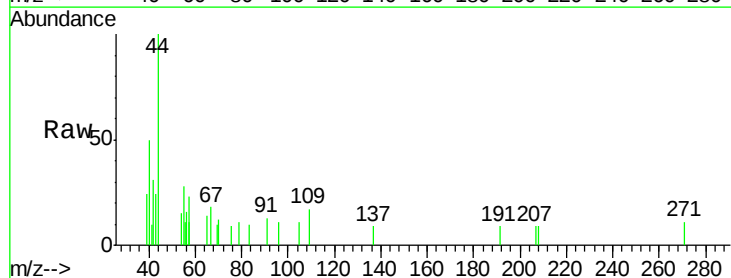
Tgt Ion: 75 Resp: 60

Ion Ratio Lower Upper

75 100

53 0.0 84.6 127.0#

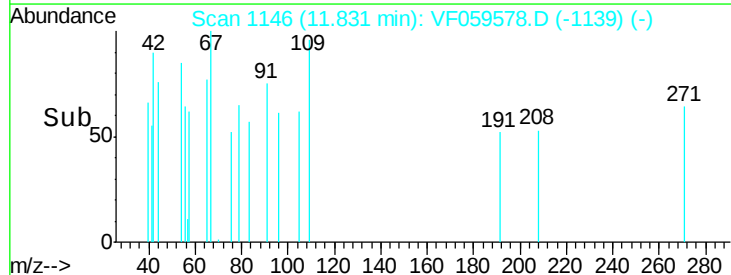
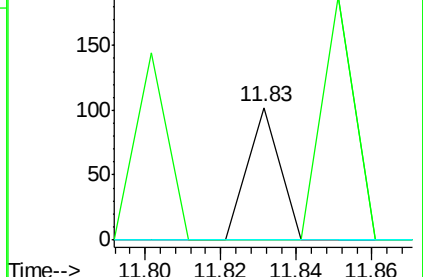
89 0.0 48.2 72.4#

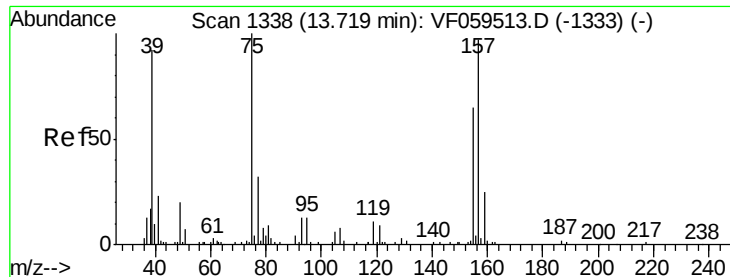


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0

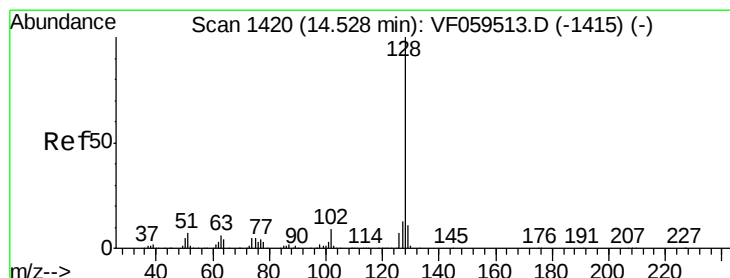
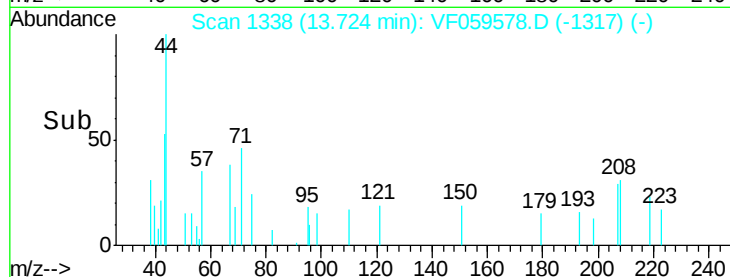
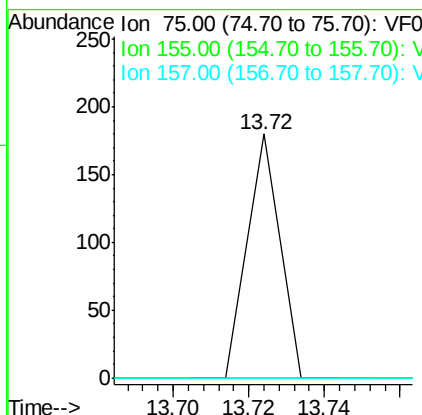
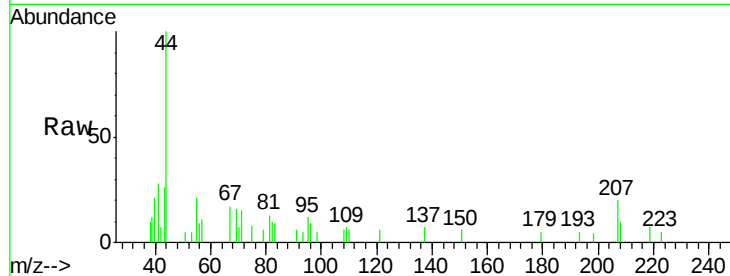




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 3.826 ug/l
 RT: 13.72 min Scan# 1338
 Delta R.T. 0.00 min
 Lab File: VF059578.D
 Acq: 20 Jul 2018 1:57

Instrument :
 MSVOA_F
 ClientSampled :

Tot Ion: 75 Resp: 106
 Ion Ratio Lower Upper
 75 100
 155 0.0 32.8 98.3#
 157 0.0 48.5 145.5#



#95
 Naphthalene
 Concen: 1.853 ug/l
 RT: 14.52 min Scan# 1419
 Delta R.T. -0.01 min
 Lab File: VF059578.D
 Acq: 20 Jul 2018 1:57

Tgt Ion: 128 Resp: 603
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.2 15.2#
 129 0.0 9.0 13.4#

