

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF010919\
 Data File : VF061305.D
 Acq On : 9 Jan 2019 17:08
 Operator : VA/AP
 Sample : K1082-28
 Misc : 4.36g/5mL/MSVOA-F/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SP-1-2

Quant Time: Jan 10 05:56:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F010819S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 09 07:13:51 2019
 Response via : Initial Calibration

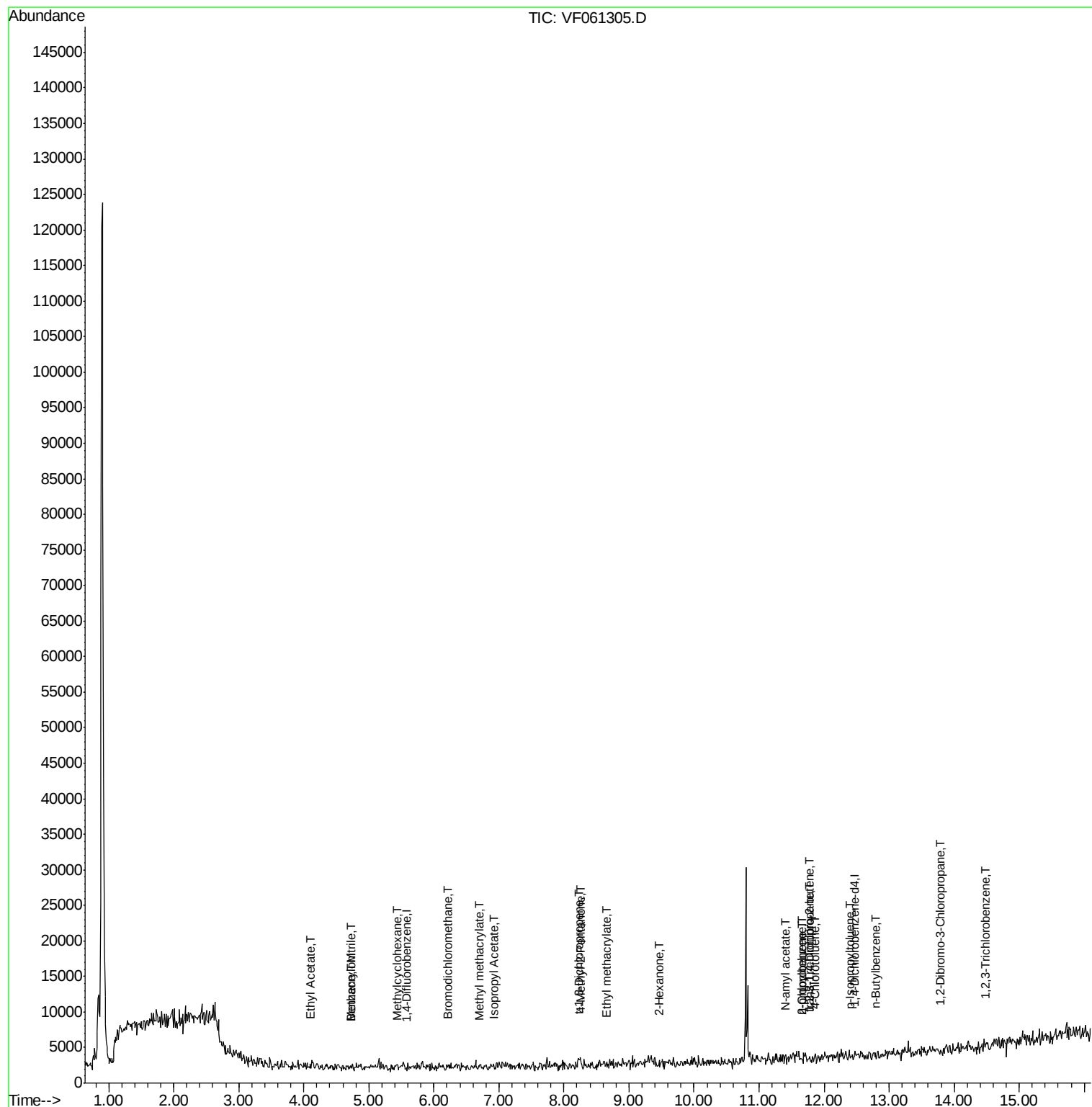
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	0.00	168	0	0.00	ug/l	-4.87
34) 1,4-Difluorobenzene	5.58	114	63	50.00	ug/l	-0.03
63) Chlorobenzene-d5	0.00	117	0	0.00	ug/l	-9.79
72) 1,4-Dichlorobenzene-d4	12.46	152	72	50.00	ug/l	-0.09
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	0.00	65	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
50) Toluene-d8	0.00	98	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
62) 4-Bromofluorobenzene	0.00	95	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
Target Compounds						
					Qvalue	
37) Ethyl Acetate	4.09	43	493	1840.173	ug/l #	1
39) Methylcyclohexane	5.44	83	79	85.820	ug/l #	15
40) Benzene	4.73	78	60	34.933	ug/l #	51
41) Methacrylonitrile	4.71	41	259	1731.164	ug/l #	24
43) Isopropyl Acetate	6.92	43	108	305.340	ug/l #	45
47) Bromodichloromethane	6.22	83	82	122.946	ug/l #	25
48) Methyl methacrylate	6.69	41	138	601.081	ug/l #	21
51) 4-Methyl-2-Pentanone	8.24	43	131	490.682	ug/l #	38
53) t-1,3-Dichloropropene	8.21	75	63	120.280	ug/l #	44
56) Ethyl methacrylate	8.65	69	65	188.260	ug/l #	20
59) 2-Hexanone	9.46	43	169	893.524	ug/l #	27
74) N-amyl acetate	11.40	43	311	215.942	ug/l #	48
76) 1,2,3-Trichloropropane	11.77	75	104	141.156	ug/l #	40
78) n-propylbenzene	11.67	91	86	11.385	ug/l #	55
79) 2-Chlorotoluene	11.67	91	86	20.434	ug/l #	41
81) trans-1,4-Dichloro-2-buten	11.77	75	104	323.014	ug/l #	17
82) 4-Chlorotoluene	11.86	91	60	14.030	ug/l #	42
86) p-Isopropyltoluene	12.41	119	67	11.518	ug/l #	50
89) n-Butylbenzene	12.79	91	61	10.206	ug/l #	27
92) 1,2-Dibromo-3-Chloropropan	13.79	75	86	506.683	ug/l #	1
96) 1,2,3-Trichlorobenzene	14.48	180	85	55.812	ug/l #	13

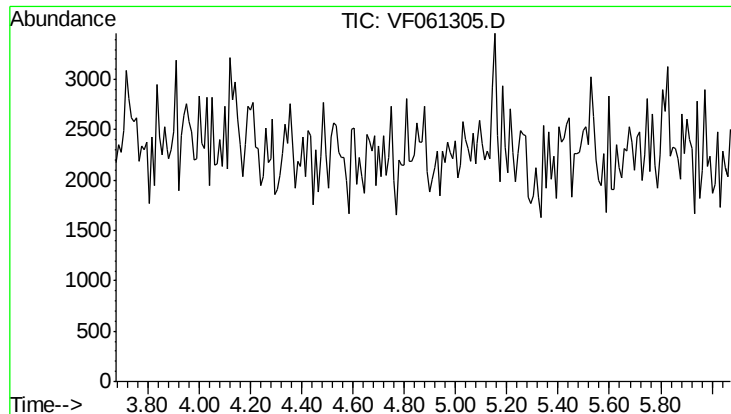
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jan 09 07:13:51 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 0.000 ug/l

Expected RT: 4.87 min

Lab File: VF061305.D

Acq: 9 Jan 2019 17:08

Tot Ion: 168

Sig Exp Ratio

168 100

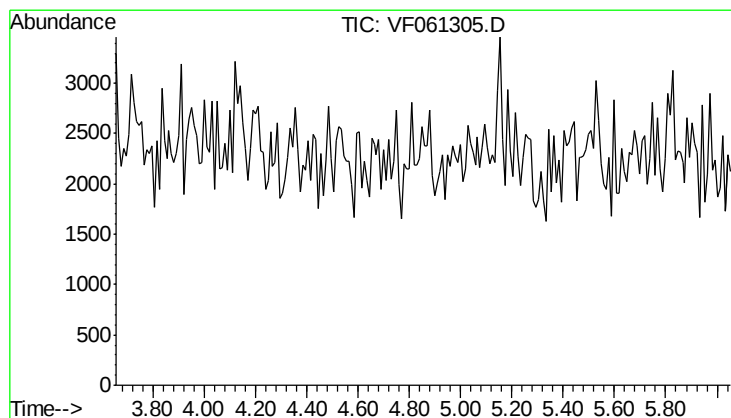
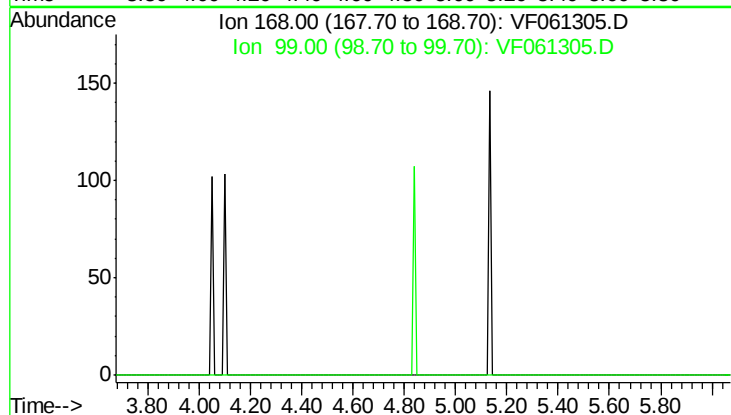
99 65.9

Instrument :

MSVOA_F

ClientSampleId :

SP-1-2



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 4.85 min

Lab File: VF061305.D

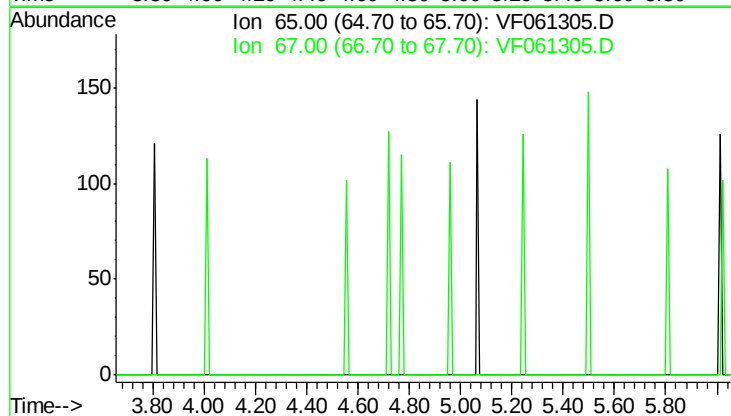
Acq: 9 Jan 2019 17:08

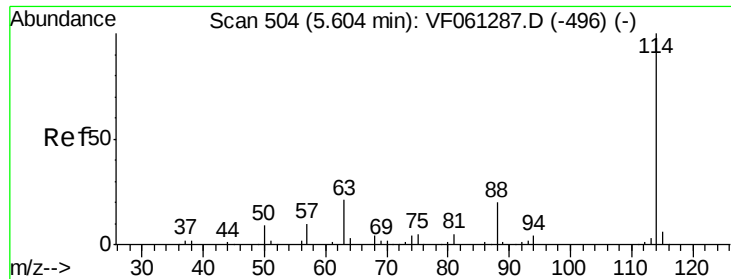
Tgt Ion: 65

Sig Exp Ratio

65 100

67 49.1

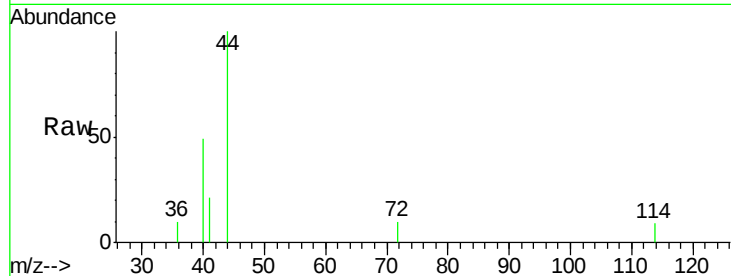




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.58 min Scan# 502
 Delta R.T. -0.03 min
 Lab File: VF061305.D
 Acq: 9 Jan 2019 17:08

Instrument :
 MSVOA_F
 ClientSampleId :
 SP-1-2

Tot Ion	Ratio	Lower	Upper
114	100		
63	0.0	0.0	42.8
88	0.0	0.0	40.0

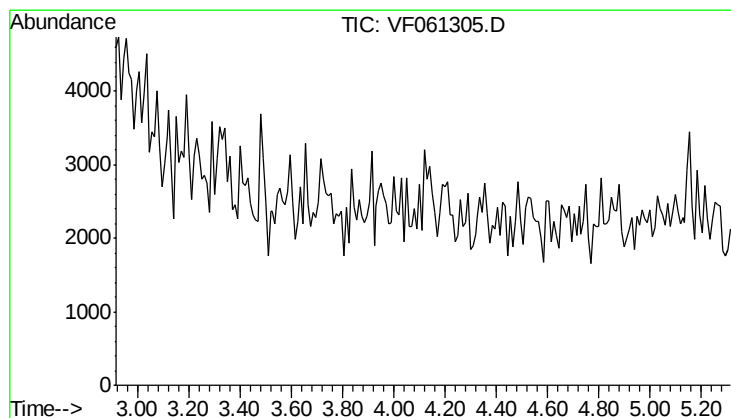
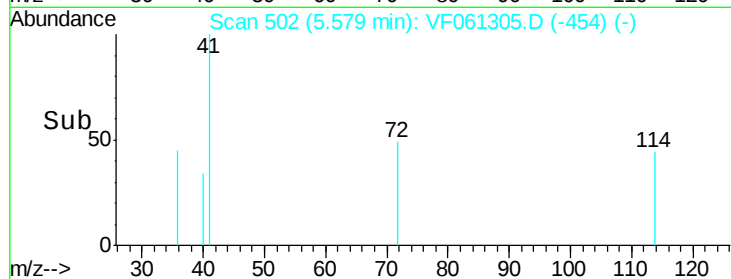
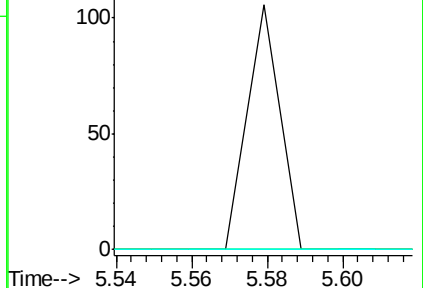


Abundance Ion 114.00 (113.70 to 114.70): VF061305.D

Ion 63.00 (62.70 to 63.70): VF061305.D

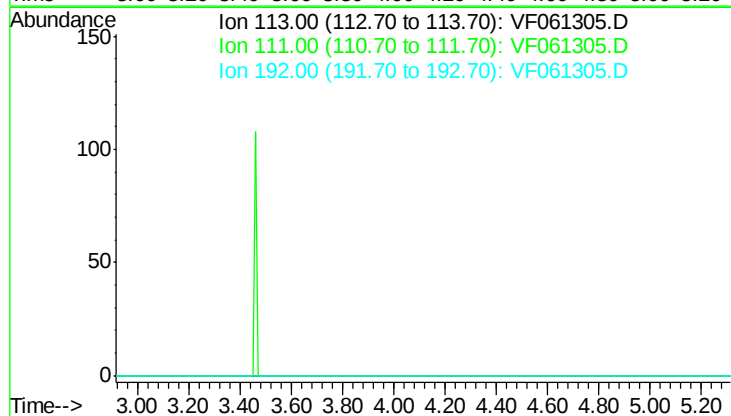
Ion 88.00 (87.70 to 88.70): VF061305.D

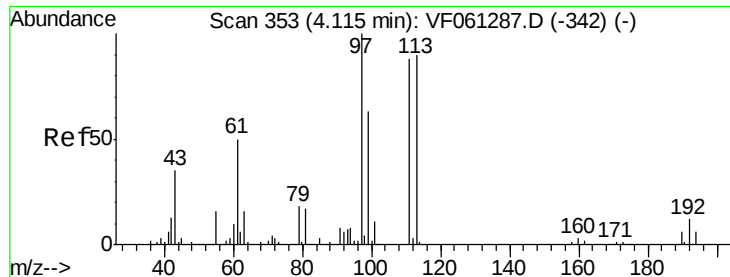
5.58



#35
 Dibromofluoromethane
 Concen: 0.000 ug/l
 Expected RT: 4.11 min
 Lab File: VF061305.D
 Acq: 9 Jan 2019 17:08

Tgt Ion	Exp Ratio
113	100
111	97.5
192	13.3





#37

Ethyl Acetate

Concen: 1840.173 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.03 min

Lab File: VF061305.D

Acq: 9 Jan 2019 17:08

Instrument :

MSVOA_F

ClientSampled :

SP-1-2

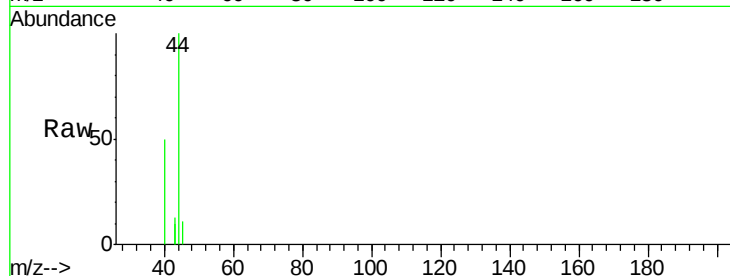
Tot Ion: 43 Resp: 493

Ion Ratio Lower Upper

43 100

61 0.0 113.3 169.9#

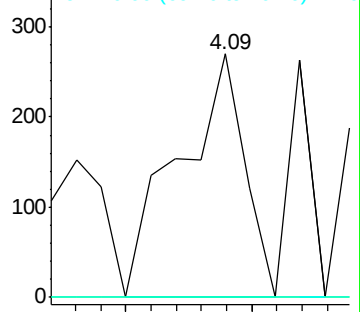
70 0.0 9.4 14.0#



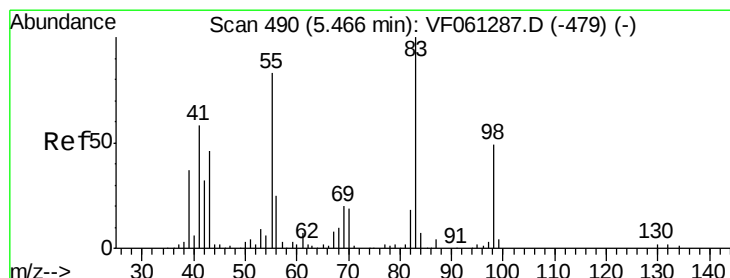
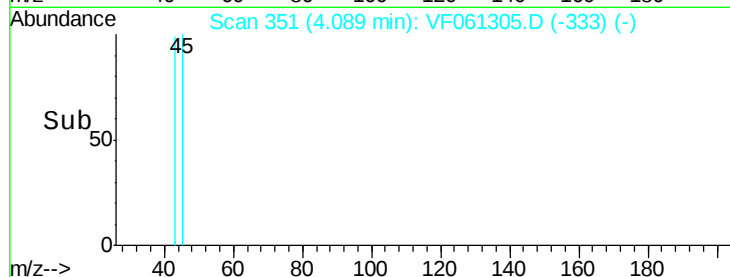
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0



Time-->



#39

Methylcyclohexane

Concen: 85.820 ug/l

RT: 5.44 min Scan# 488

Delta R.T. -0.03 min

Lab File: VF061305.D

Acq: 9 Jan 2019 17:08

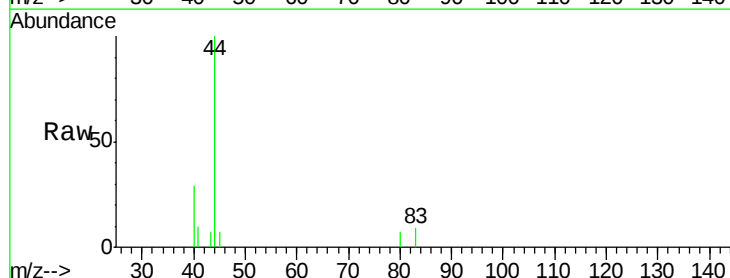
Tgt Ion: 83 Resp: 79

Ion Ratio Lower Upper

83 100

55 0.0 66.4 99.6#

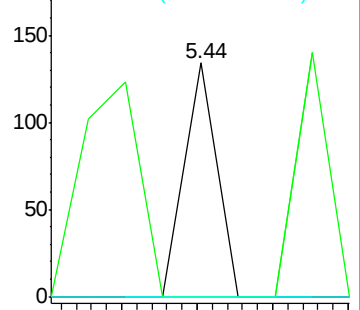
98 0.0 39.1 58.7#



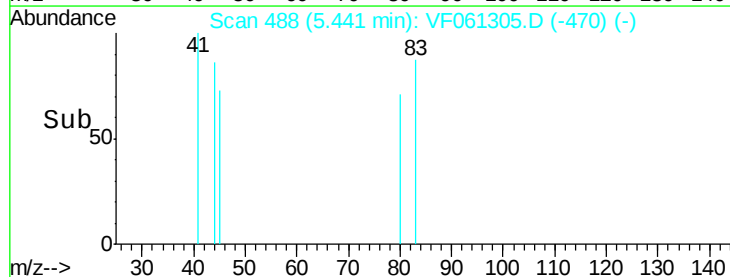
Abundance Ion 83.00 (82.70 to 83.70): VF0

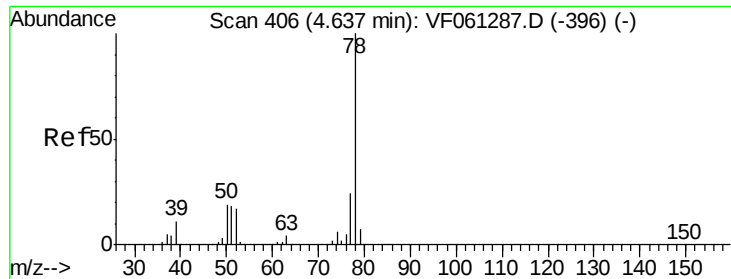
Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



Time-->





#40

Benzene

Concen: 34.933 ug/l

RT: 4.73 min Scan# 416

Delta R.T. 0.09 min

Lab File: VF061305.D

Acq: 9 Jan 2019 17:08

Instrument :

MSVOA_F

ClientSampleId :

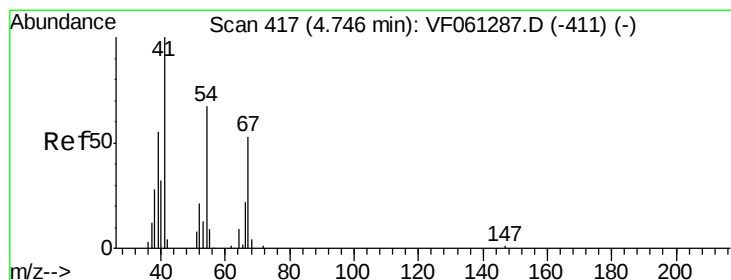
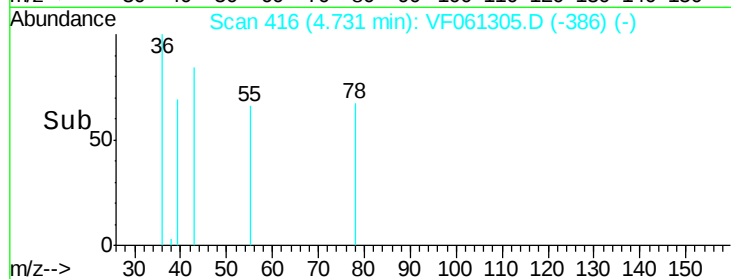
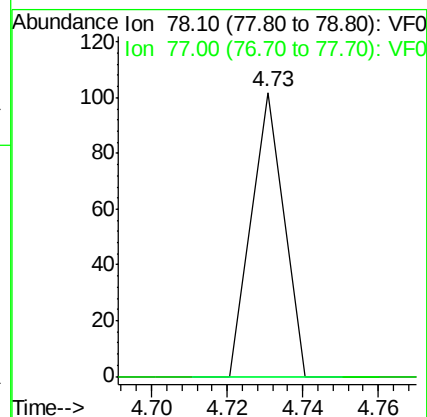
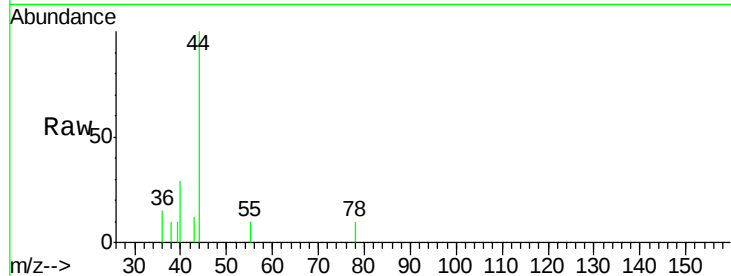
SP-1-2

Tot Ion: 78 Resp: 60

Ion Ratio Lower Upper

78 100

77 0.0 19.1 28.7#



#41

Methacrylonitrile

Concen: 1731.164 ug/l

RT: 4.71 min Scan# 414

Delta R.T. -0.04 min

Lab File: VF061305.D

Acq: 9 Jan 2019 17:08

Tgt Ion: 41 Resp: 259

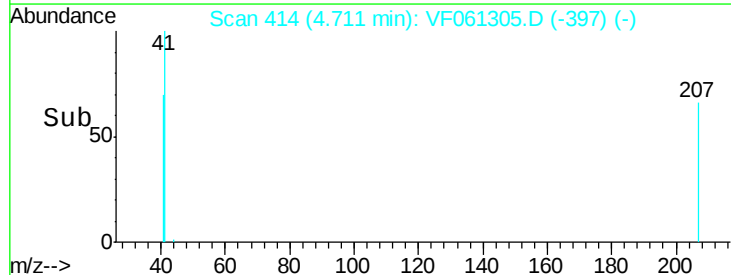
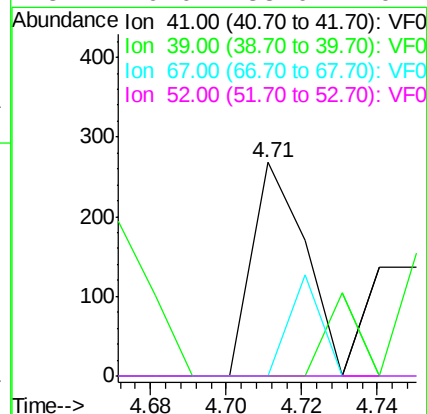
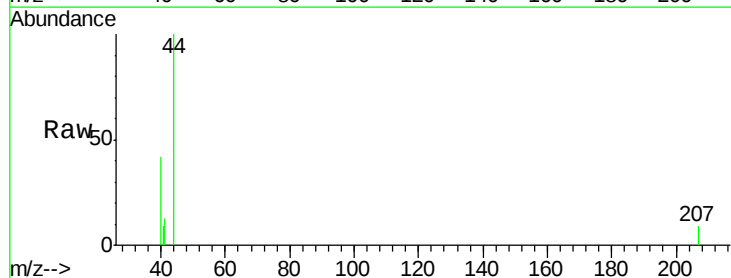
Ion Ratio Lower Upper

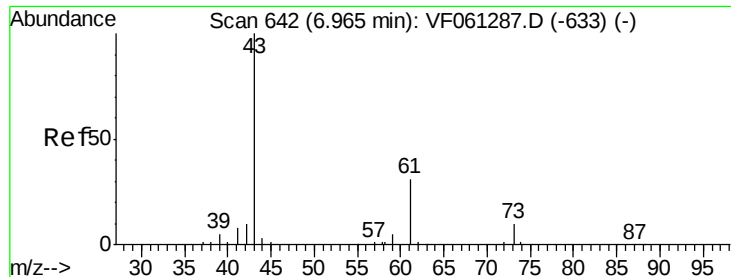
41 100

39 0.0 52.7 79.1#

67 0.0 41.4 62.2#

52 0.0 33.0 49.4#



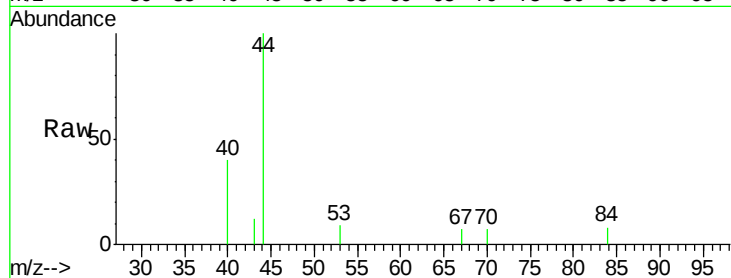


#43

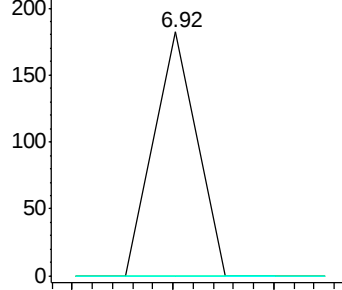
Isopropyl Acetate
 Concen: 305.340 ug/l
 RT: 6.92 min Scan# 638
 Delta R.T. -0.04 min
 Lab File: VF061305.D
 Acq: 9 Jan 2019 17:08

Instrument :
 MSVOA_F
 ClientSampleID :
 SP-1-2

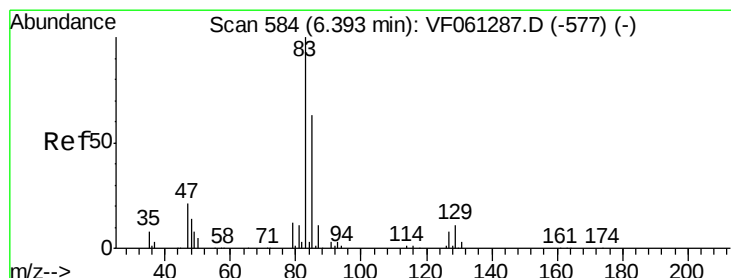
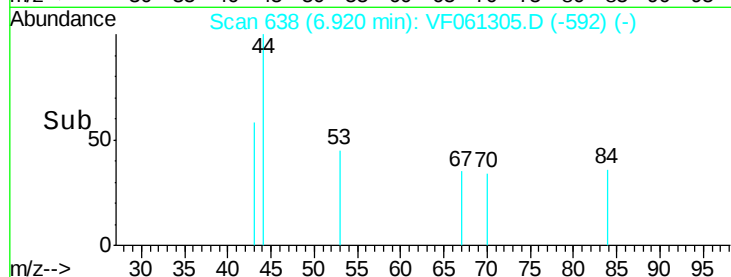
Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	24.3	36.5#
87	0.0	0.2	0.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 87.00 (86.70 to 87.70): VF0



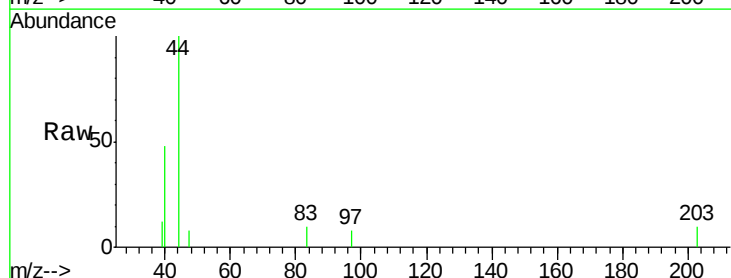
Time-->



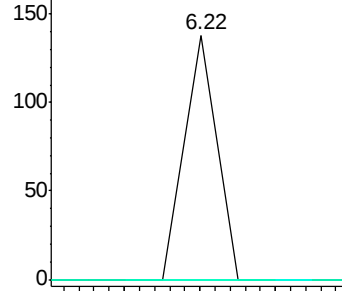
#47

Bromodichloromethane
 Concen: 122.946 ug/l
 RT: 6.22 min Scan# 567
 Delta R.T. -0.17 min
 Lab File: VF061305.D
 Acq: 9 Jan 2019 17:08

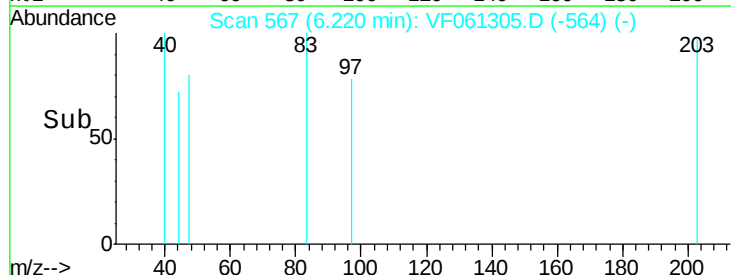
Tgt Ion	Ratio	Lower	Upper
83	100		
85	0.0	50.4	75.6#
127	0.0	6.4	9.6#

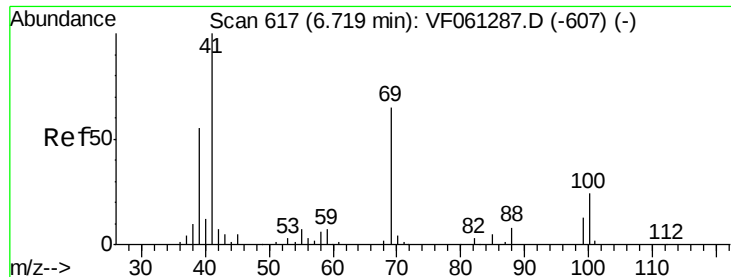


Abundance Ion 83.00 (82.70 to 83.70): VF0
 Ion 85.00 (84.70 to 85.70): VF0
 Ion 127.00 (126.70 to 127.70): V



Time-->

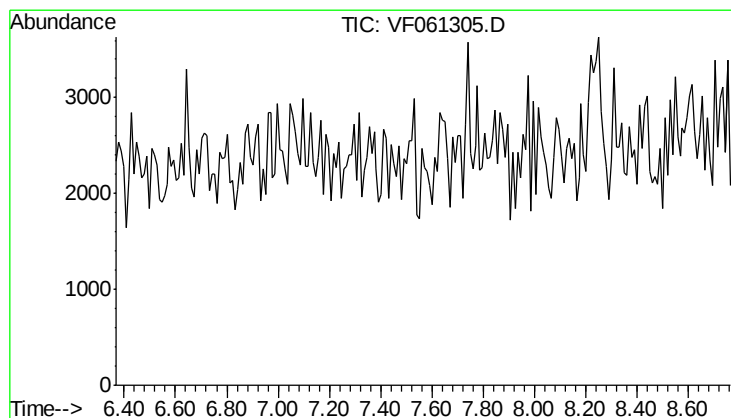
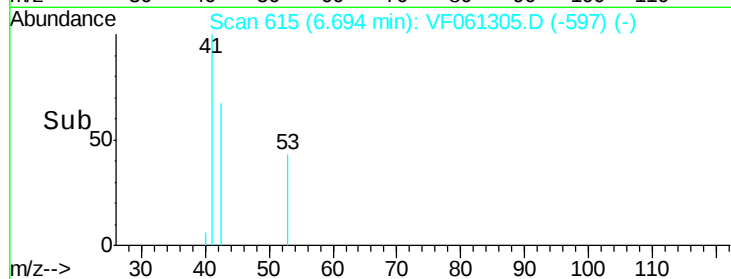
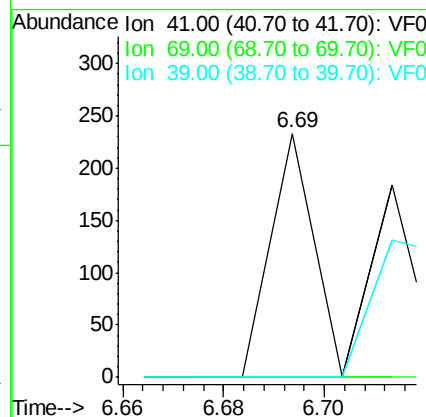
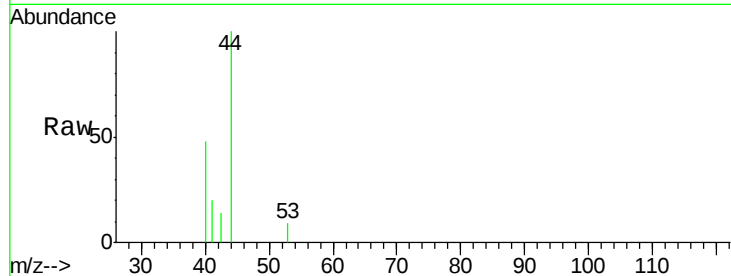




#48
Methyl methacrylate
Concen: 601.081 ug/l
RT: 6.69 min Scan# 615
Delta R.T. -0.03 min
Lab File: VF061305.D
Acq: 9 Jan 2019 17:08

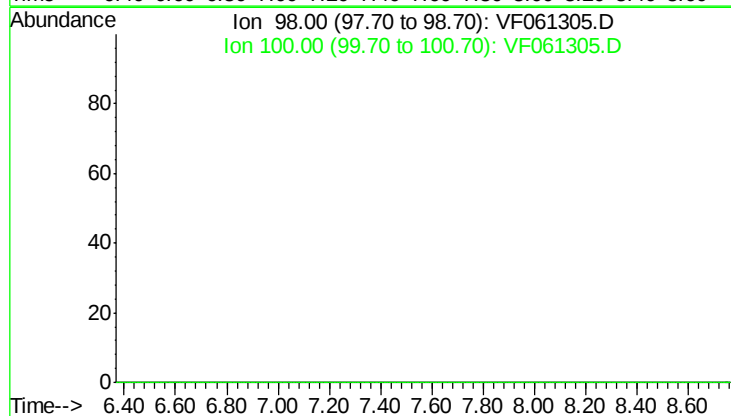
Instrument :
MSVOA_F
ClientSampleId :
SP-1-2

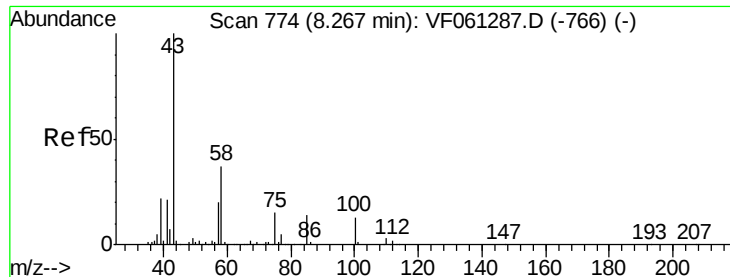
Tot Ion: 41 Resp: 138
Ion Ratio Lower Upper
41 100
69 0.0 51.5 77.3#
39 0.0 44.1 66.1#



#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 7.57 min
Lab File: VF061305.D
Acq: 9 Jan 2019 17:08

Tgt Ion: 98
Sig Exp Ratio
98 100
100 69.5





#51

4-Methyl-2-Pentanone

Concen: 490.682 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.03 min

Lab File: VF061305.D

Acq: 9 Jan 2019 17:08

Instrument :

MSVOA_F

ClientSampled :

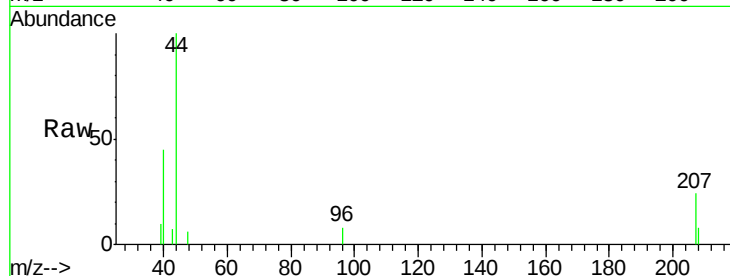
SP-1-2

Tot Ion: 43 Resp: 131

Ion Ratio Lower Upper

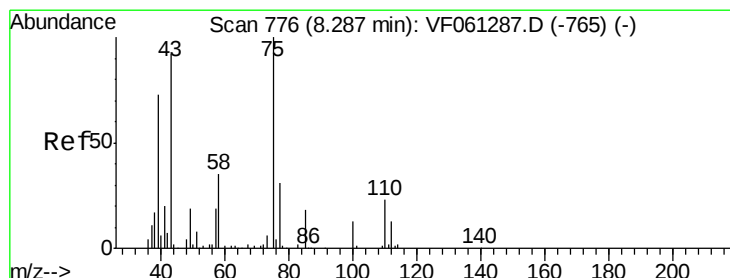
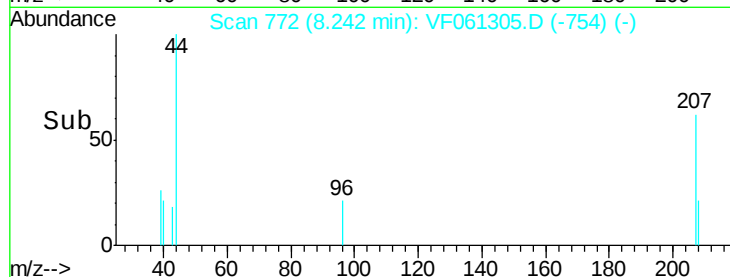
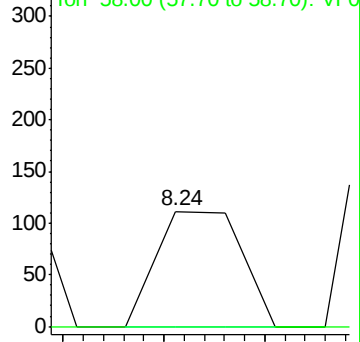
43 100

58 0.0 29.6 44.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#53

t-1,3-Dichloropropene

Concen: 120.280 ug/l

RT: 8.21 min Scan# 769

Delta R.T. -0.07 min

Lab File: VF061305.D

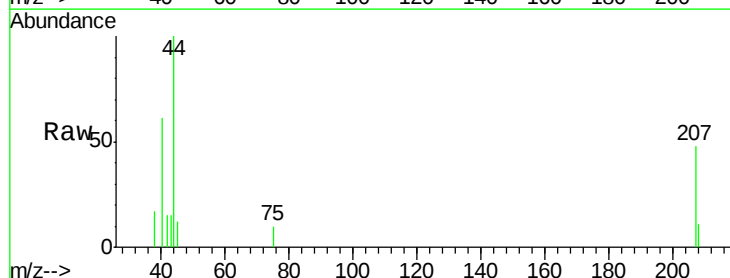
Acq: 9 Jan 2019 17:08

Tgt Ion: 75 Resp: 63

Ion Ratio Lower Upper

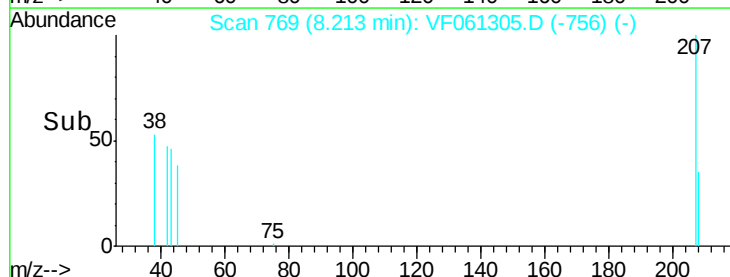
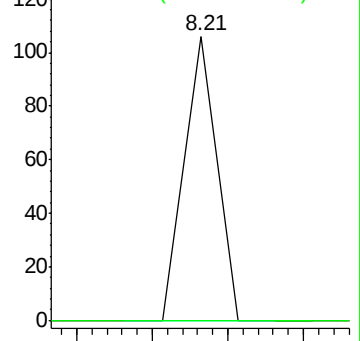
75 100

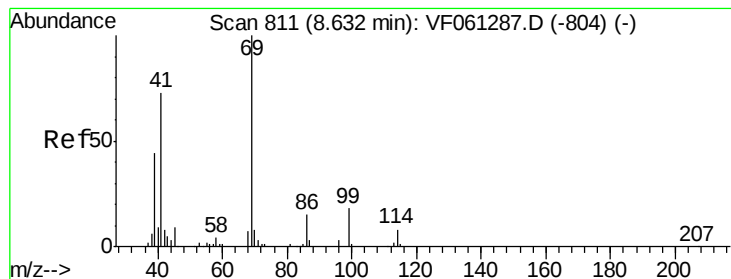
77 0.0 24.7 37.1#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#56

Ethyl methacrylate

Concen: 188.260 ug/l

RT: 8.65 min Scan# 813

Delta R.T. 0.01 min

Lab File: VF061305.D

Acq: 9 Jan 2019 17:08

Instrument :

MSVOA_F

ClientSampled :

SP-1-2

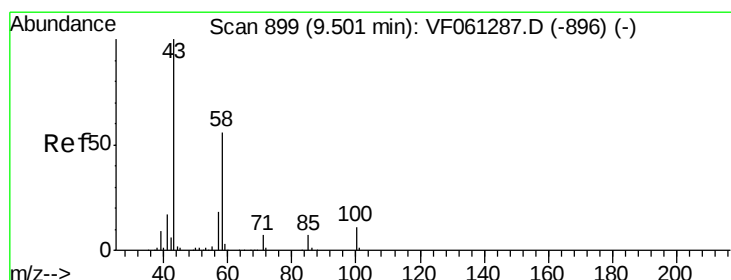
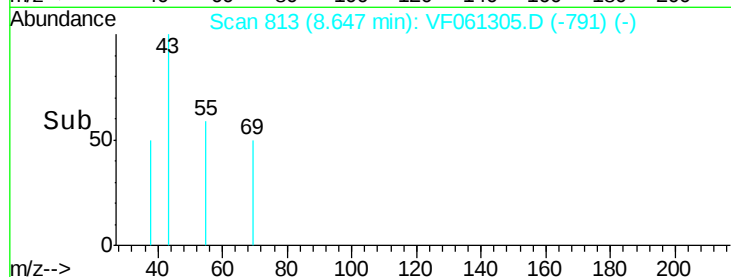
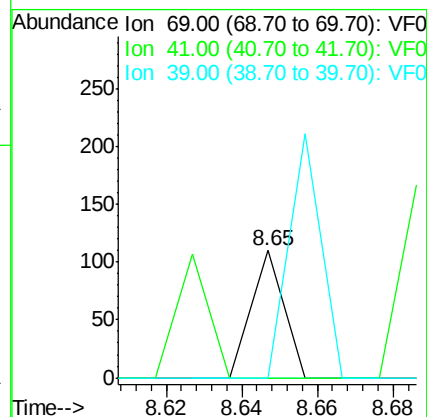
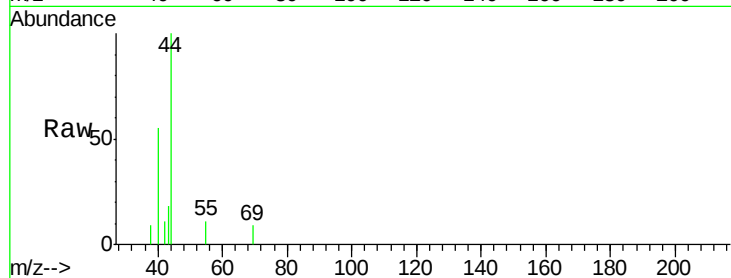
Tot Ion: 69 Resp: 65

Ion Ratio Lower Upper

69 100

41 0.0 59.0 88.4#

39 0.0 35.3 52.9#



#59

2-Hexanone

Concen: 893.524 ug/l

RT: 9.46 min Scan# 895

Delta R.T. -0.04 min

Lab File: VF061305.D

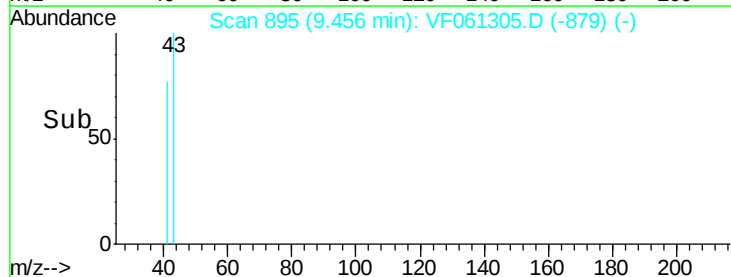
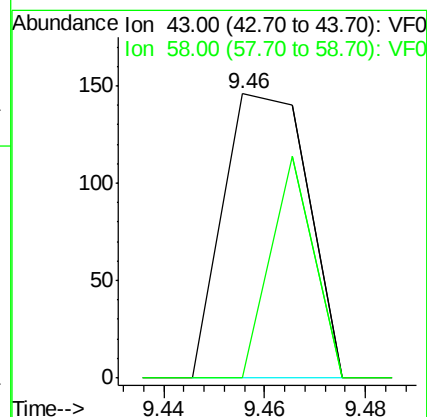
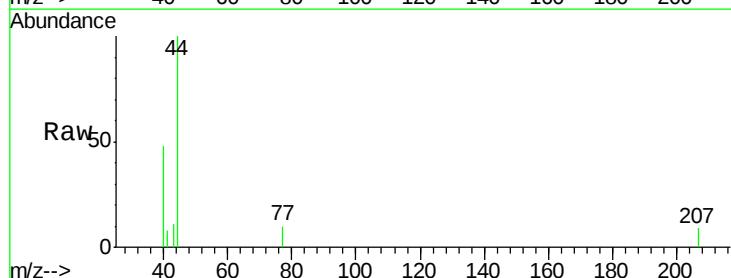
Acq: 9 Jan 2019 17:08

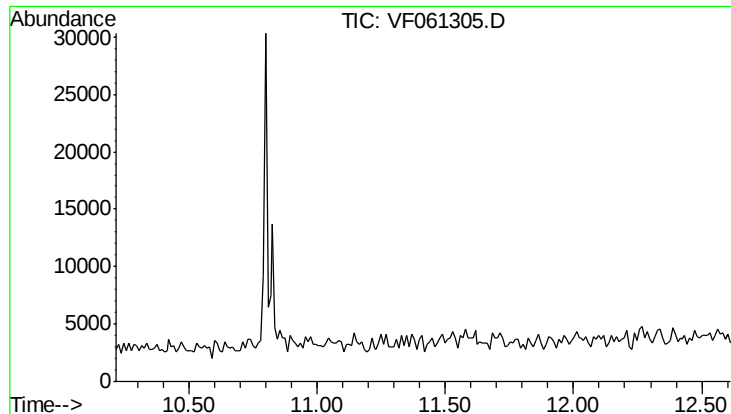
Tgt Ion: 43 Resp: 169

Ion Ratio Lower Upper

43 100

58 0.0 25.6 76.8#

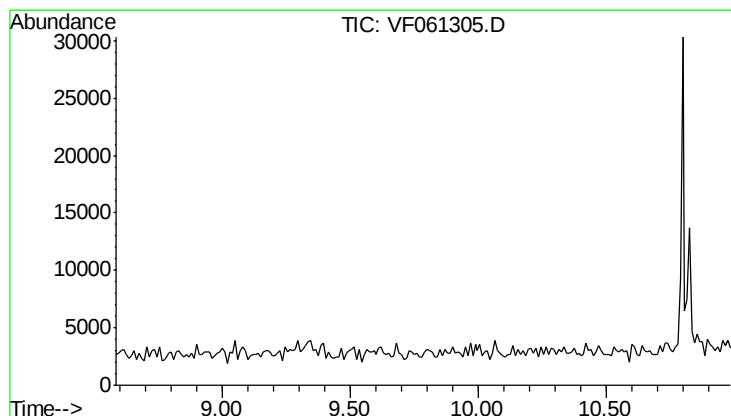
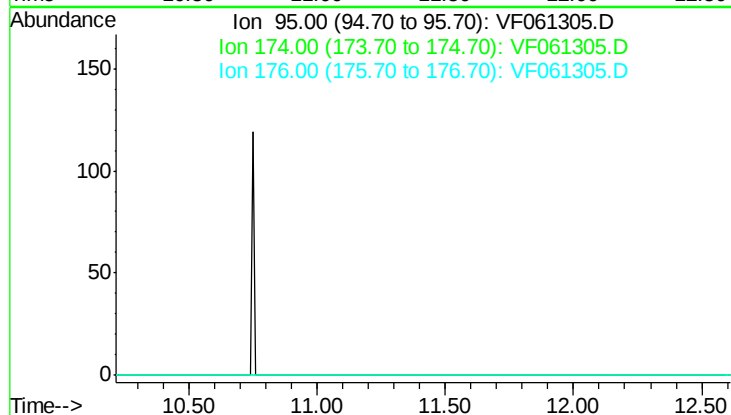




#62
 4-Bromofluorobenzene
 Concen: 0.000 ug/l
 Expected RT: 11.41 min
 Lab File: VF061305.D
 Acq: 9 Jan 2019 17:08

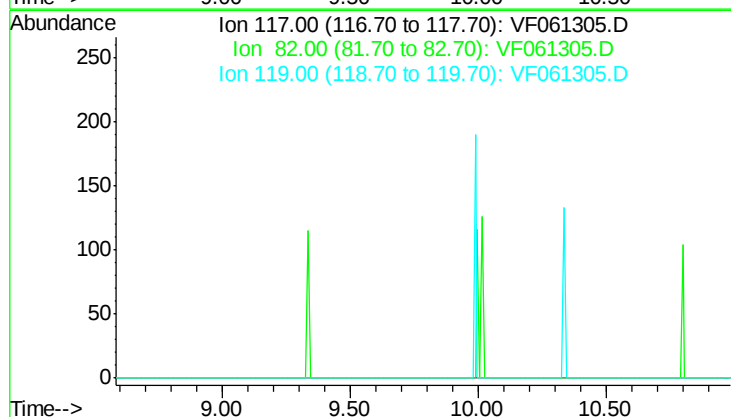
Instrument :
 MSVOA_F
 ClientSampleId :
 SP-1-2

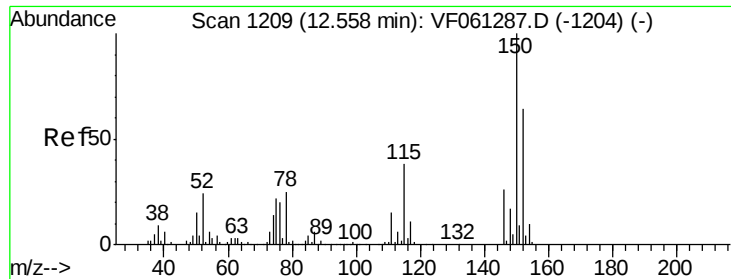
Tot Ion	95
Sig	Exp Ratio
95	100
174	57.1
176	58.9



#63
 Chlorobenzene-d5
 Concen: 0.000 ug/l
 Expected RT: 9.79 min
 Lab File: VF061305.D
 Acq: 9 Jan 2019 17:08

Tgt Ion	117
Sig	Exp Ratio
117	100
82	56.6
119	31.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.46 min Scan# 1200

Delta R.T. -0.09 min

Lab File: VF061305.D

Acq: 9 Jan 2019 17:08

Instrument :

MSVOA_F

ClientSampleId :

SP-1-2

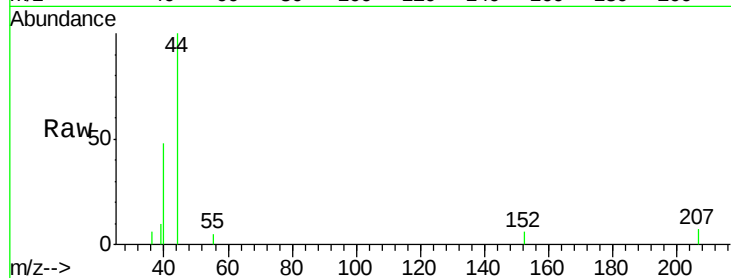
Tot Ion:152 Resp: 72

Ion Ratio Lower Upper

152 100

115 0.0 29.6 88.9#

150 0.0 0.0 315.4



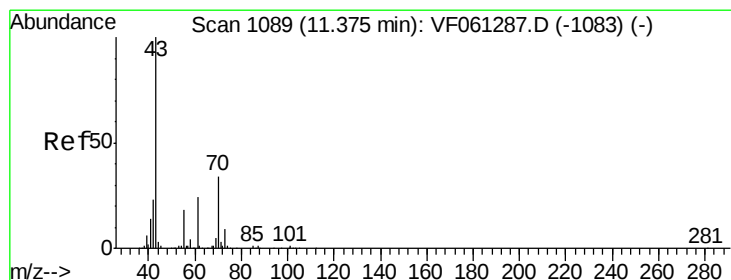
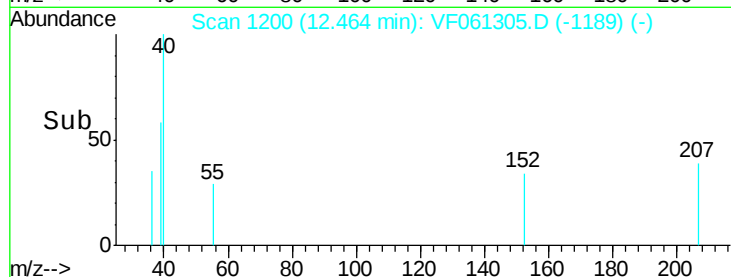
Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V

12.46

Time-->



#74

N-ethyl acetate

Concen: 215.942 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. 0.02 min

Lab File: VF061305.D

Acq: 9 Jan 2019 17:08

Tgt Ion: 43 Resp: 311

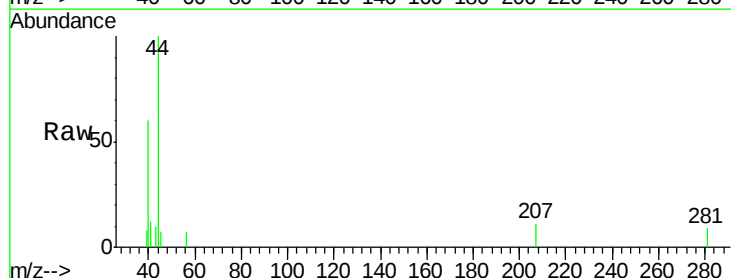
Ion Ratio Lower Upper

43 100

70 0.0 27.4 41.0#

55 0.0 14.7 22.1#

61 0.0 19.0 28.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

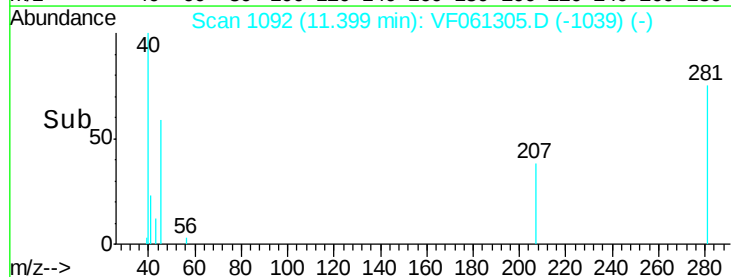
Ion 70.00 (69.70 to 70.70): VF0

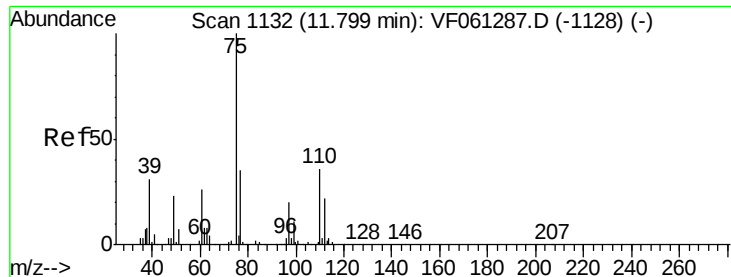
Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

11.40

Time-->

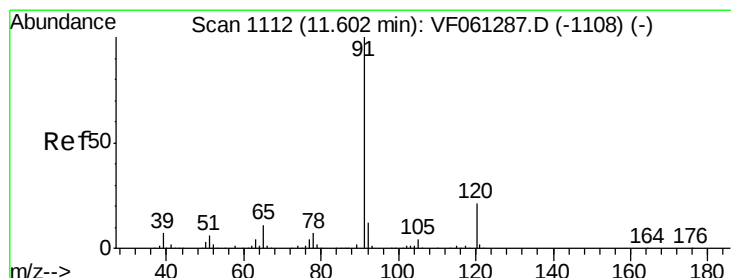
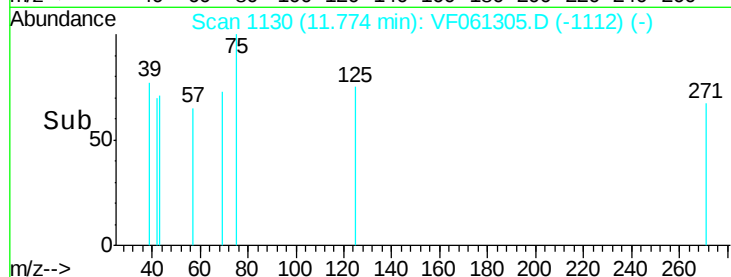
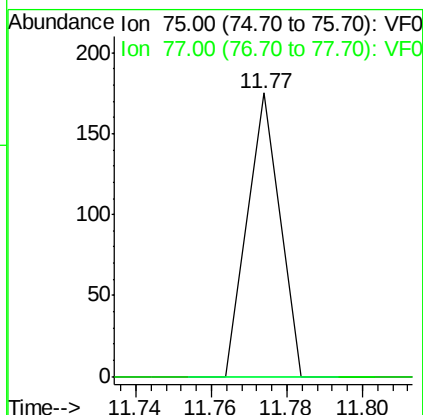
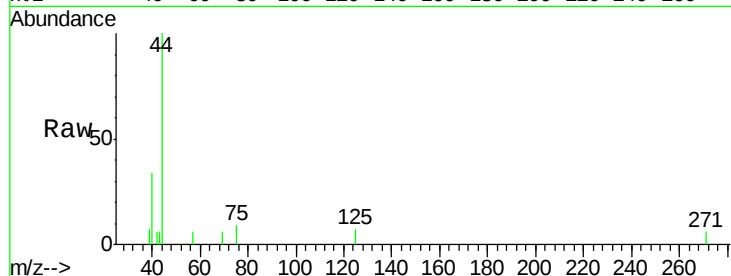




#76
 1,2,3-Trichloropropane
 Concen: 141.156 ug/l
 RT: 11.77 min Scan# 1130
 Delta R.T. -0.03 min
 Lab File: VF061305.D
 Acq: 9 Jan 2019 17:08

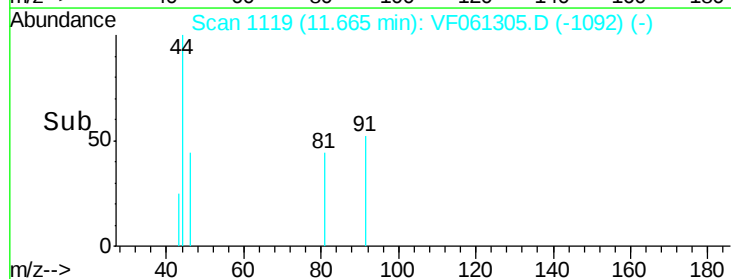
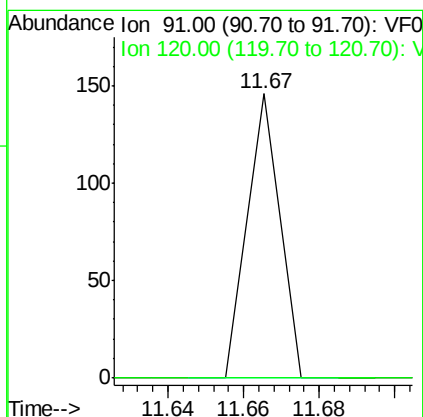
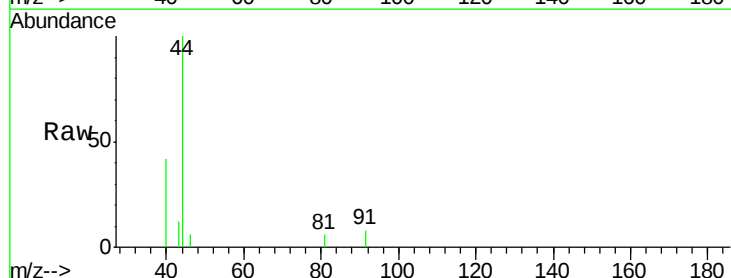
Instrument :
 MSVOA_F
 ClientSampleId :
 SP-1-2

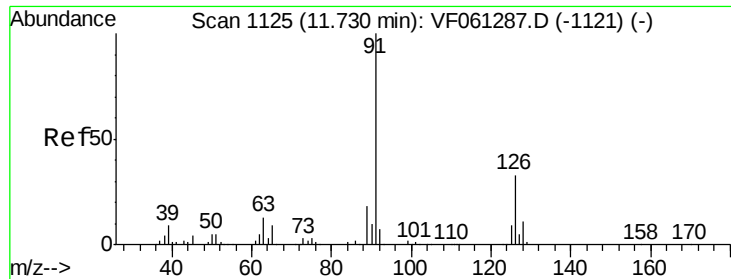
Tot Ion: 75 Resp: 104
 Ion Ratio Lower Upper
 75 100
 77 0.0 17.5 52.5#



#78
 n-propylbenzene
 Concen: 11.385 ug/l
 RT: 11.67 min Scan# 1119
 Delta R.T. 0.06 min
 Lab File: VF061305.D
 Acq: 9 Jan 2019 17:08

Tgt Ion: 91 Resp: 86
 Ion Ratio Lower Upper
 91 100
 120 0.0 10.7 32.1#





#79

2-Chlorotoluene

Concen: 20.434 ug/l

RT: 11.67 min Scan# 1119

Delta R.T. -0.06 min

Lab File: VF061305.D

Acq: 9 Jan 2019 17:08

Instrument :

MSVOA_F

ClientSampleId :

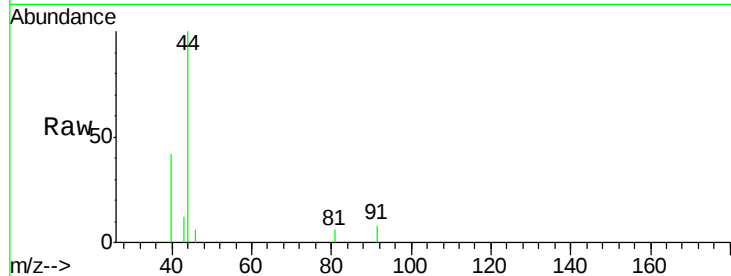
SP-1-2

Tot Ion: 91 Resp: 86

Ion Ratio Lower Upper

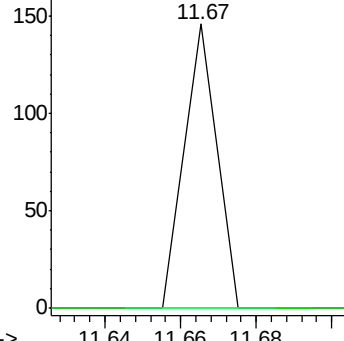
91 100

126 0.0 16.6 49.8#

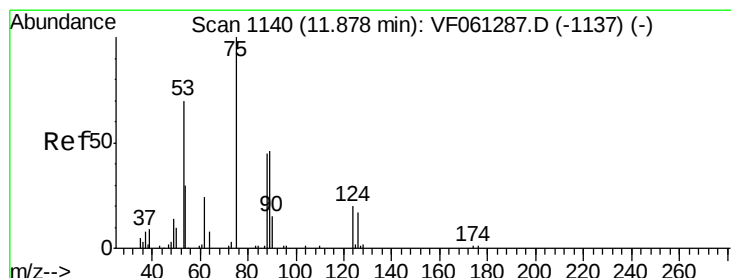
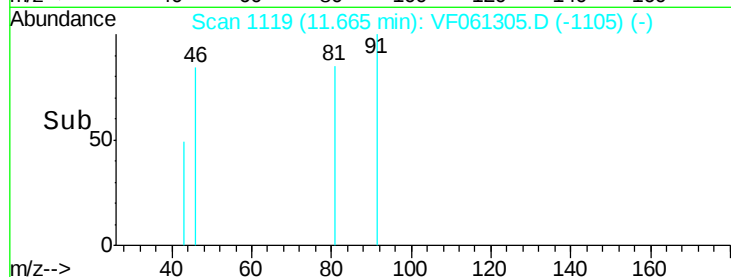


Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 323.014 ug/l

RT: 11.77 min Scan# 1130

Delta R.T. -0.10 min

Lab File: VF061305.D

Acq: 9 Jan 2019 17:08

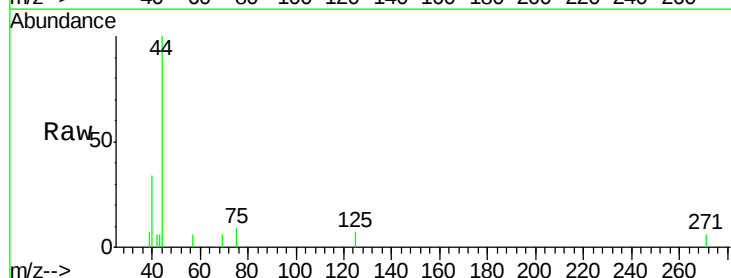
Tgt Ion: 75 Resp: 104

Ion Ratio Lower Upper

75 100

53 0.0 62.2 93.2#

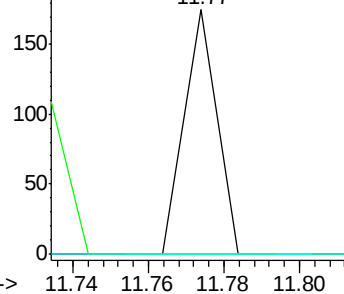
89 0.0 40.2 60.4#



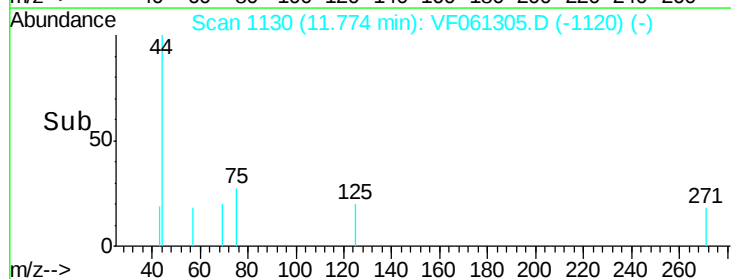
Abundance Ion 75.00 (74.70 to 75.70): VF0

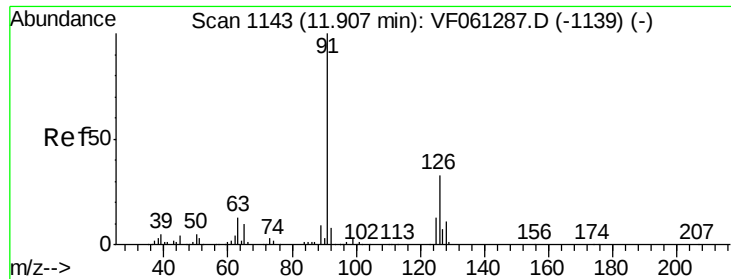
Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



Time-->





#82

4-Chlorotoluene

Concen: 14.030 ug/l

RT: 11.86 min Scan# 1139

Delta R.T. -0.04 min

Lab File: VF061305.D

Acq: 9 Jan 2019 17:08

Instrument :

MSVOA_F

ClientSampleId :

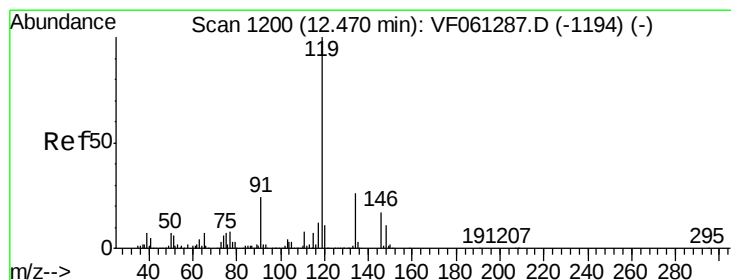
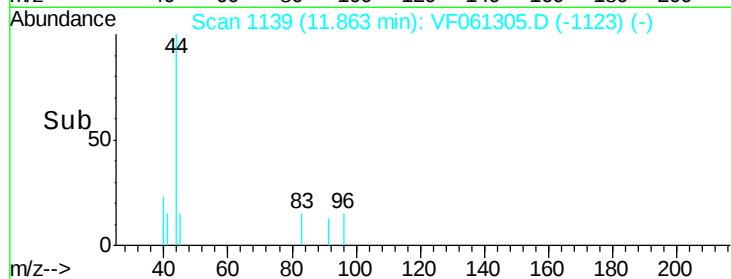
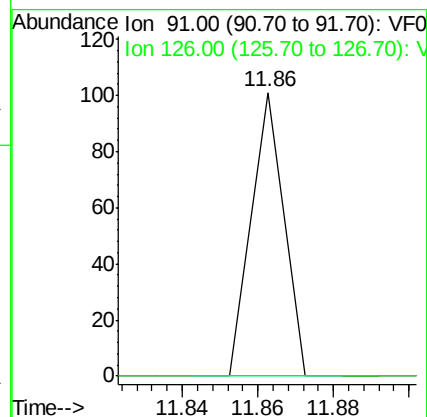
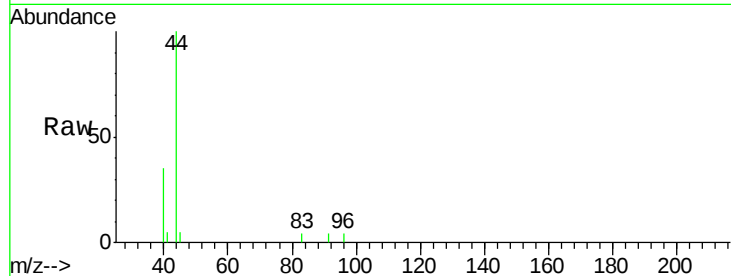
SP-1-2

Tot Ion: 91 Resp: 60

Ion Ratio Lower Upper

91 100

126 0.0 16.4 49.4#



#86

p-Isopropyltoluene

Concen: 11.518 ug/l

RT: 12.41 min Scan# 1194

Delta R.T. -0.06 min

Lab File: VF061305.D

Acq: 9 Jan 2019 17:08

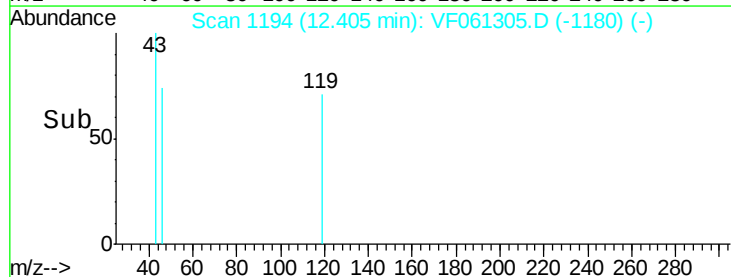
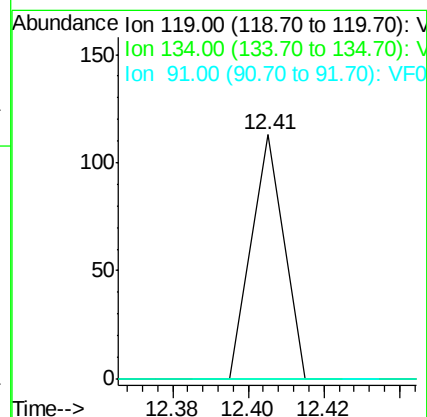
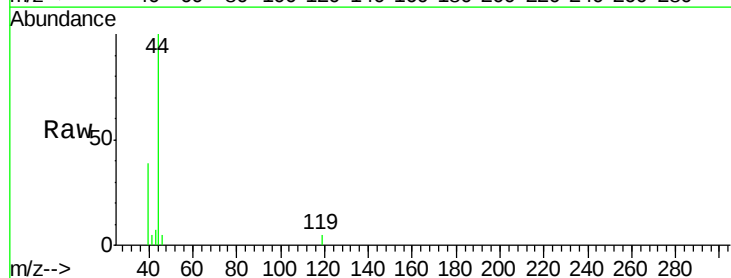
Tgt Ion: 119 Resp: 67

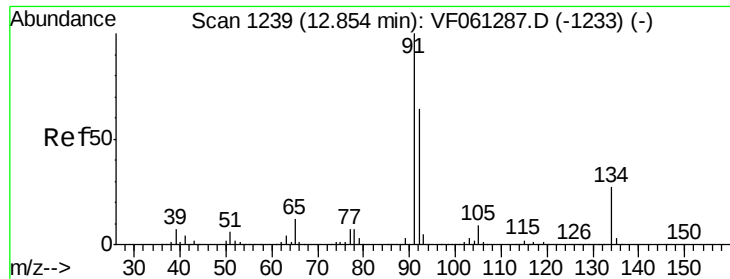
Ion Ratio Lower Upper

119 100

134 0.0 13.0 39.0#

91 0.0 12.2 36.4#

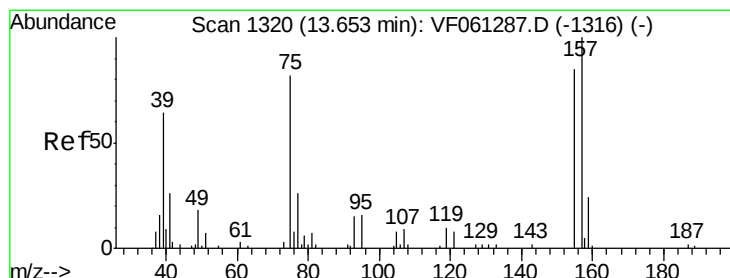
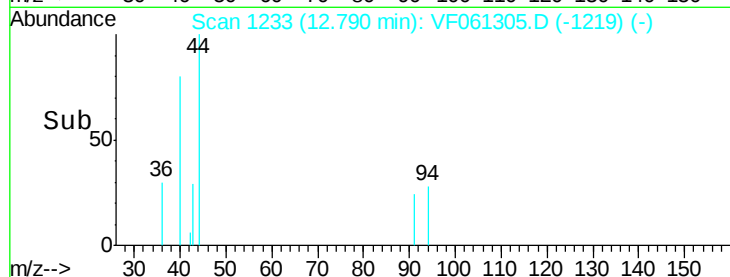
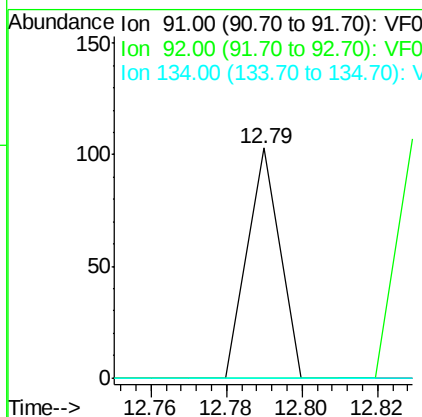
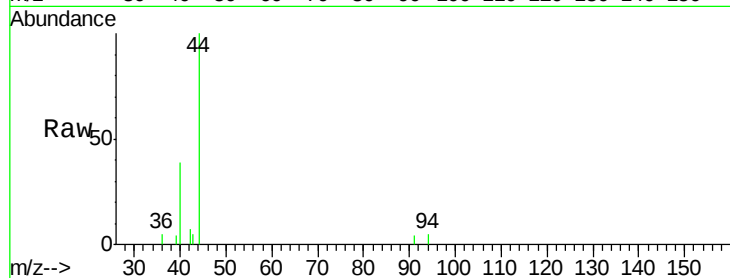




#89
n-Butylbenzene
Concen: 10.206 ug/l
RT: 12.79 min Scan# 1233
Delta R.T. -0.06 min
Lab File: VF061305.D
Acq: 9 Jan 2019 17:08

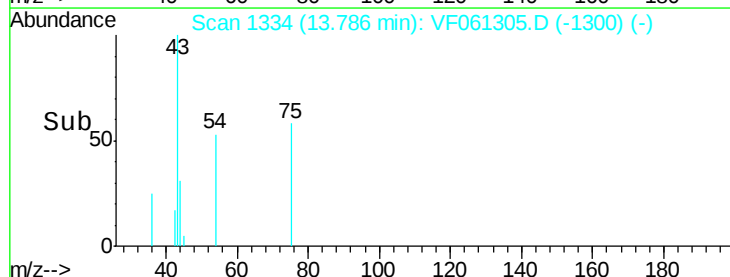
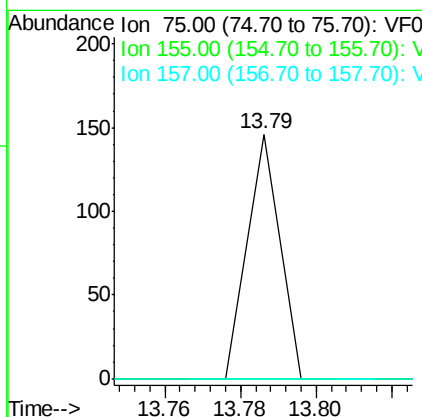
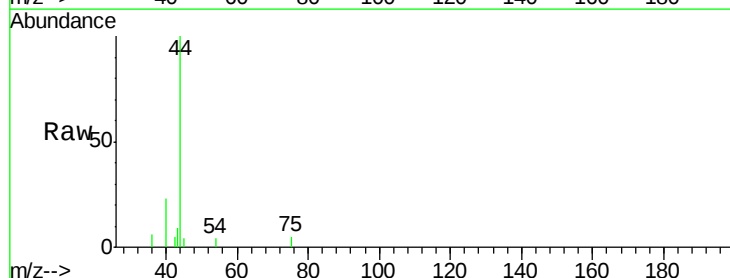
Instrument :
MSVOA_F
ClientSampled :
SP-1-2

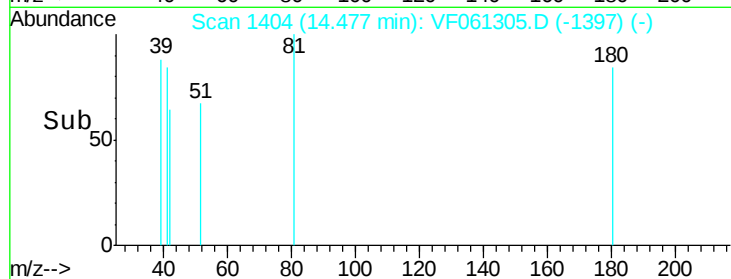
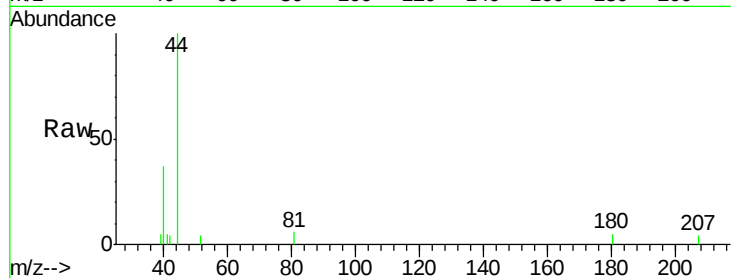
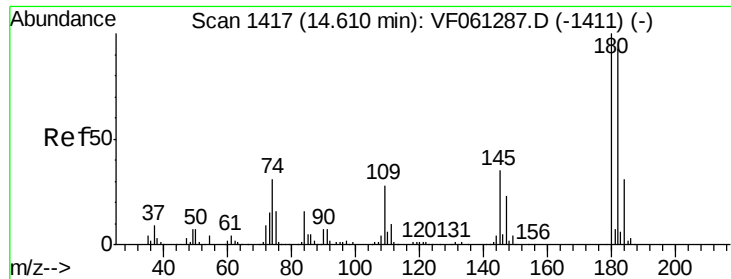
Tot Ion: 91 Resp: 61
Ion Ratio Lower Upper
91 100
92 0.0 32.1 96.3#
134 0.0 13.4 40.1#



#92
1,2-Dibromo-3-Chloropropane
Concen: 506.683 ug/l
RT: 13.79 min Scan# 1334
Delta R.T. 0.13 min
Lab File: VF061305.D
Acq: 9 Jan 2019 17:08

Tgt Ion: 75 Resp: 86
Ion Ratio Lower Upper
75 100
155 0.0 51.3 154.0#
157 0.0 60.7 182.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 55.812 ug/l
 RT: 14.48 min Scan# 1404
 Delta R.T. -0.13 min
 Lab File: VF061305.D
 Acq: 9 Jan 2019 17:08

Instrument :
 MSVOA_F
 ClientSampleId :
 SP-1-2

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	46.5	139.3#
145	0.0	17.5	52.6#

