

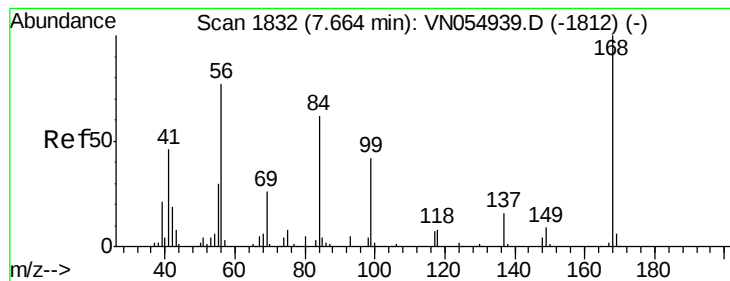
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN040419\
 Data File : VN054953.D
 Acq On : 4 Apr 2019 17:45
 Operator : JC/SP
 Sample : K2245-08
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1D

Quant Time: Apr 05 03:19:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N040419W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 05 02:23:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	504735	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	840829	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	743610	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	285435	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	334623	50.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.56%	
35) Dibromofluoromethane	7.59	113	266305	48.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.30%	
50) Toluene-d8	10.09	98	1026790	49.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.88%	
62) 4-Bromofluorobenzene	12.40	95	331946	47.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.78%	
Target Compounds						
					Qvalue	
13) Acrolein	3.61	56	428	4.971	ug/l #	66
14) Allyl chloride	4.55	41	19106	1.935	ug/l #	25
16) Acetone	3.82	43	7198	Below Cal		90
18) Methyl Acetate	4.32	43	1399	Below Cal	#	87
20) Methylene Chloride	4.55	84	420418	68.069	ug/l	99
30) Chloroform	7.38	83	2765	0.264	ug/l	86
31) Cyclohexane	7.66	56	10738	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	37208	4.466	ug/l #	50
38) Carbon Tetrachloride	7.66	117	47065	5.850	ug/l #	17
43) Isopropyl Acetate	8.18	43	16635	1.726	ug/l #	93
45) 1,2-Dichloropropane	9.27	63	1532	0.229	ug/l #	44
48) Methyl methacrylate	9.18	41	8464	1.735	ug/l #	33
51) 4-Methyl-2-Pentanone	10.03	43	9334	1.736	ug/l #	39
53) t-1,3-Dichloropropene	10.09	75	130	2.042	ug/l #	1
54) cis-1,3-Dichloropropene	9.90	75	58899	6.578	ug/l #	67
57) 1,3-Dichloropropane	10.76	76	11380	1.272	ug/l #	42
59) 2-Hexanone	10.77	43	185613	55.282	ug/l #	55
68) m/p-Xylenes	11.62	106	2880	0.288	ug/l	100
74) N-amyl acetate	11.88	43	20731	3.093	ug/l #	55
75) 1,1,2,2-Tetrachloroethane	12.52	83	29	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	172276	38.353	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	9078	0.458	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	172276	139.416	ug/l #	4
84) 1,2,4-Trimethylbenzene	13.04	105	12933	0.675	ug/l	96
93) 1,2,4-Trichlorobenzene	14.91	180	340	2.518	ug/l #	55
95) Naphthalene	15.13	128	8665	3.624	ug/l #	93

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN054953.D

Acq: 4 Apr 2019 17:45

Instrument :

MSVOA_N

ClientSampled :

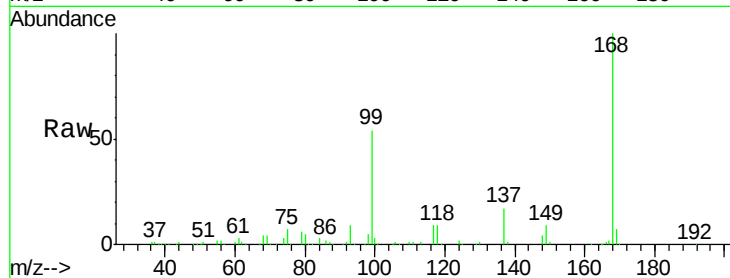
TP-1D

Tgt Ion:168 Resp: 504735

Ion Ratio Lower Upper

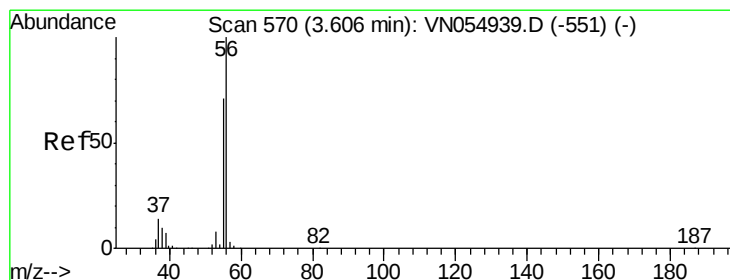
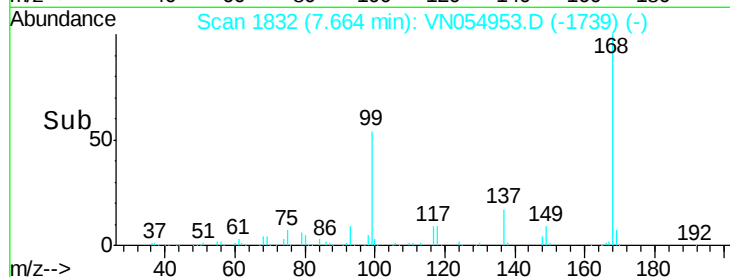
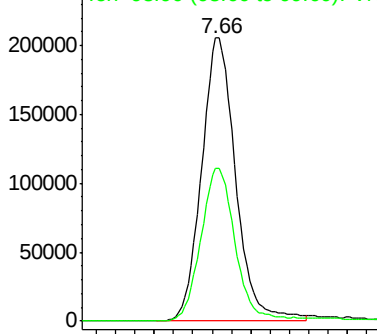
168 100

99 54.0 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#13

Acrolein

Concen: 4.971 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN054953.D

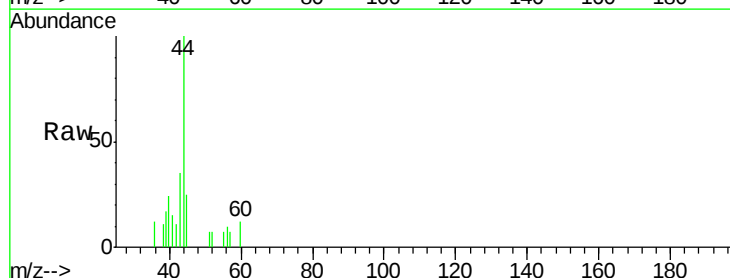
Acq: 4 Apr 2019 17:45

Tgt Ion: 56 Resp: 428

Ion Ratio Lower Upper

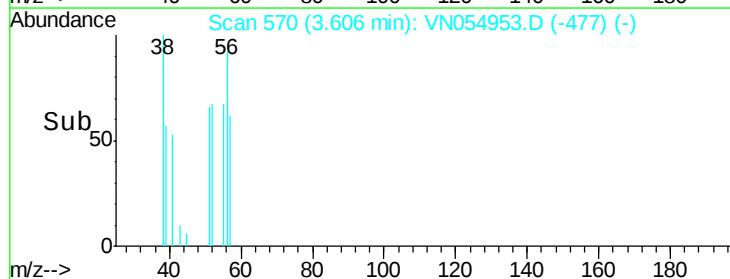
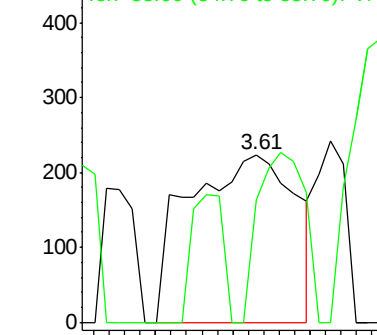
56 100

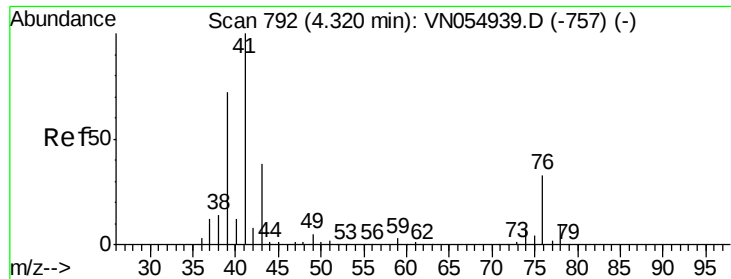
55 44.4 58.6 87.8#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

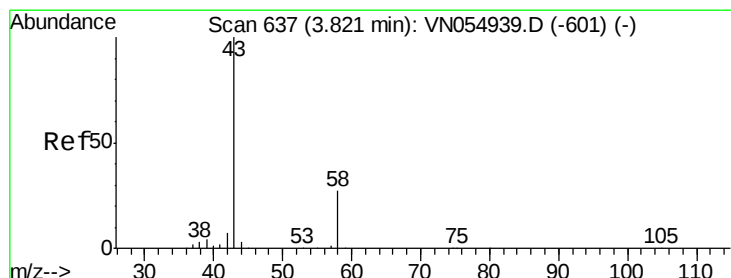
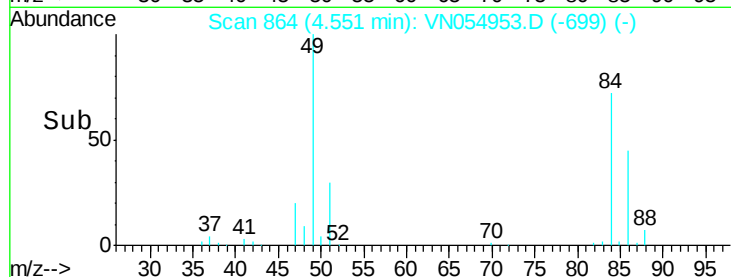
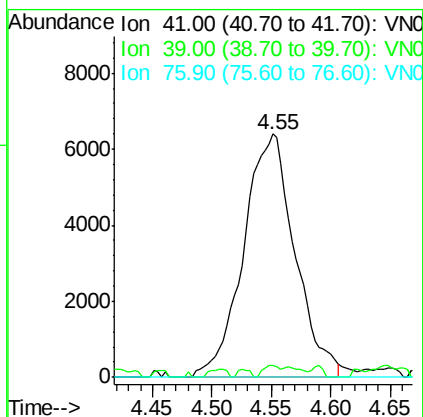
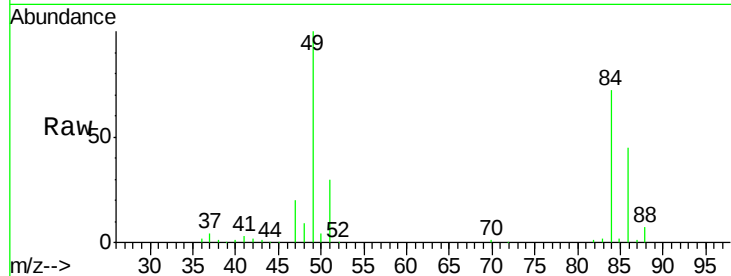




#14
 Allyl chloride
 Concen: 1.935 ug/l
 RT: 4.55 min Scan# 864
 Delta R.T. 0.23 min
 Lab File: VN054953.D
 Acq: 4 Apr 2019 17:45

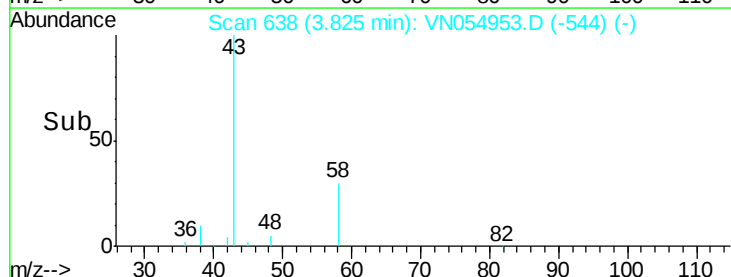
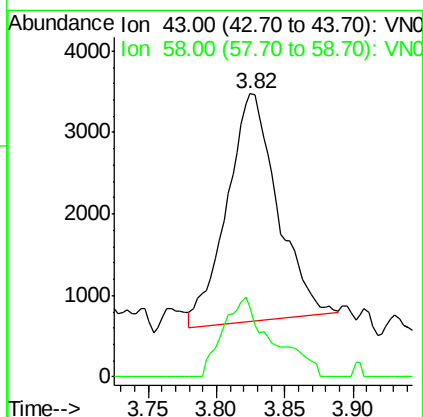
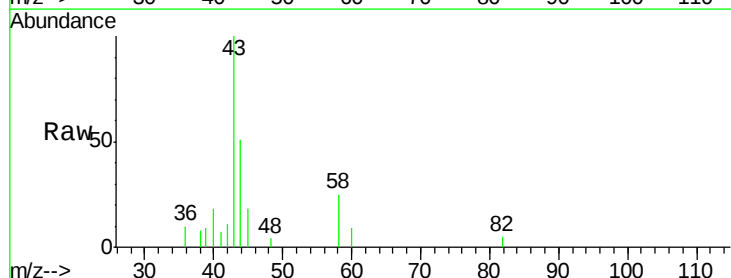
Instrument :
 MSVOA_N
 ClientSampled :
 TP-1D

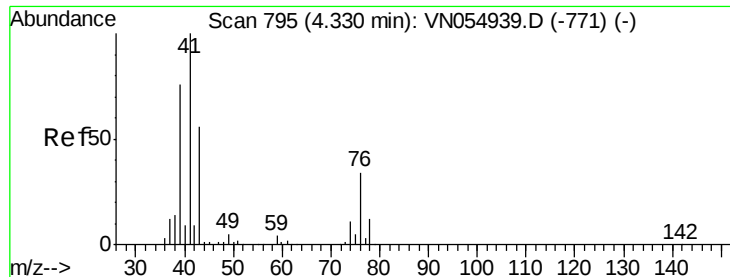
Tgt Ion: 41 Resp: 19106
 Ion Ratio Lower Upper
 41 100
 39 1.5 55.4 83.2#
 76 0.0 23.8 35.8#



#16
 Acetone
 Concen: Below Cal
 RT: 3.82 min Scan# 638
 Delta R.T. 0.00 min
 Lab File: VN054953.D
 Acq: 4 Apr 2019 17:45

Tgt Ion: 43 Resp: 7198
 Ion Ratio Lower Upper
 43 100
 58 32.1 21.7 32.5

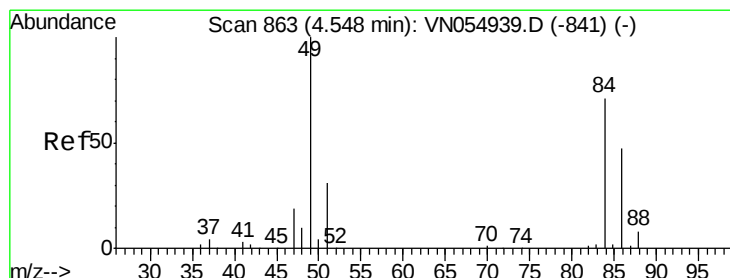
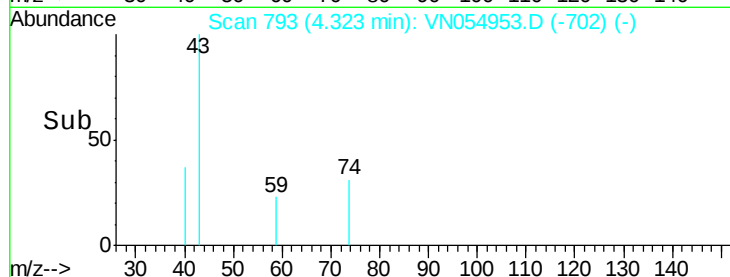
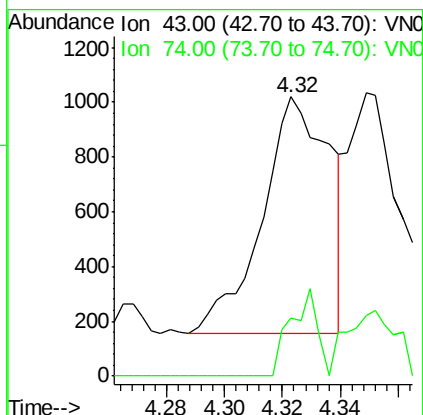
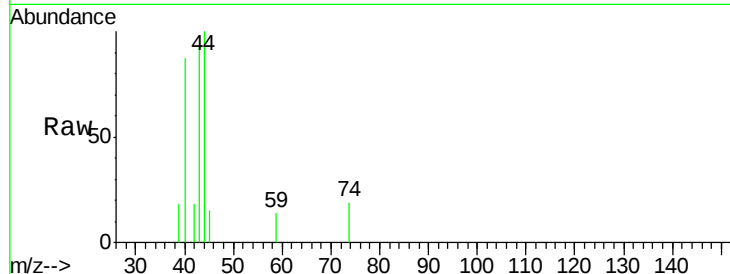




#18
Methyl Acetate
Concen: Below Cal
RT: 4.32 min Scan# 793
Delta R.T. -0.01 min
Lab File: VN054953.D
Acq: 4 Apr 2019 17:45

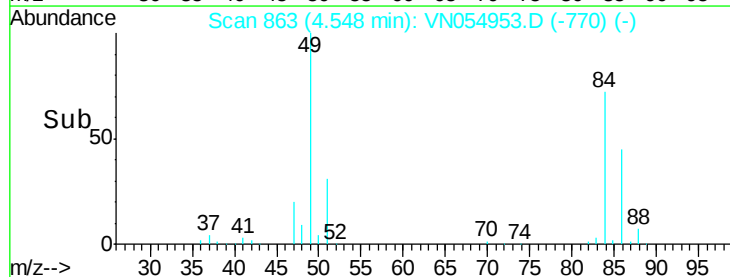
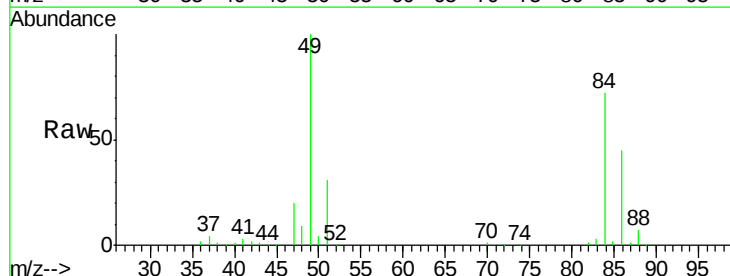
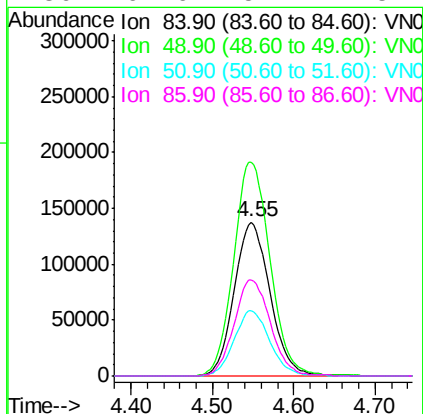
Instrument :
MSVOA_N
ClientSampleId :
TP-1D

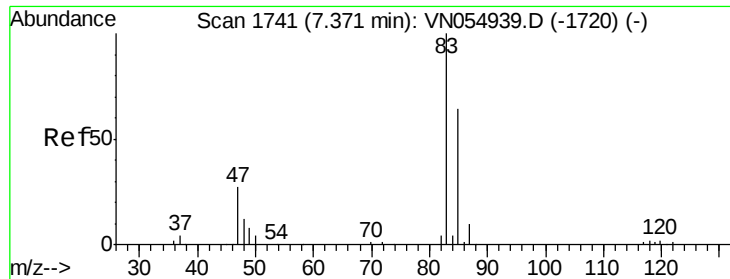
Tgt Ion: 43 Resp: 1399
Ion Ratio Lower Upper
43 100
74 14.6 16.4 24.6#



#20
Methylene Chloride
Concen: 68.069 ug/l
RT: 4.55 min Scan# 863
Delta R.T. -0.00 min
Lab File: VN054953.D
Acq: 4 Apr 2019 17:45

Tgt Ion: 84 Resp: 420418
Ion Ratio Lower Upper
84 100
49 139.0 112.1 168.1
51 42.9 34.5 51.7
86 62.6 52.2 78.4





#30

Chloroform

Concen: 0.264 ug/l

RT: 7.38 min Scan# 1743

Delta R.T. 0.01 min

Lab File: VN054953.D

Acq: 4 Apr 2019 17:45

Instrument :

MSVOA_N

ClientSampleId :

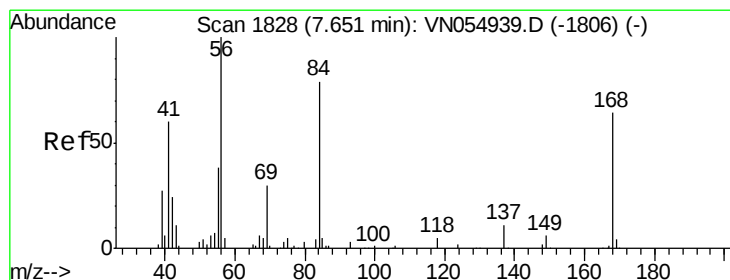
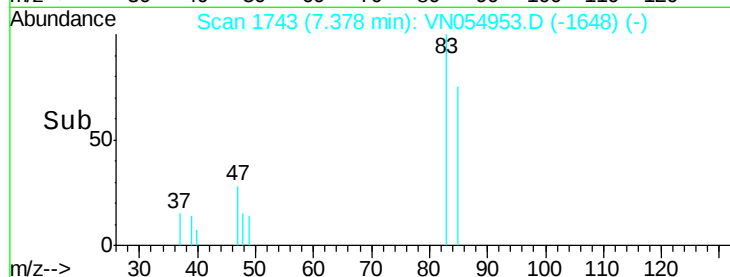
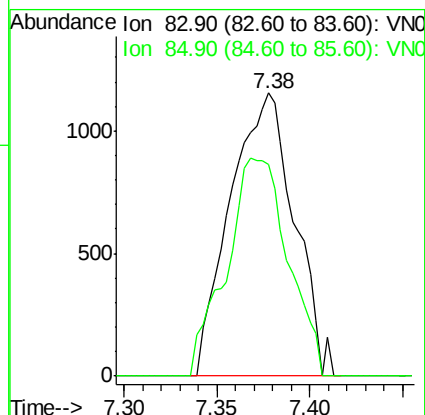
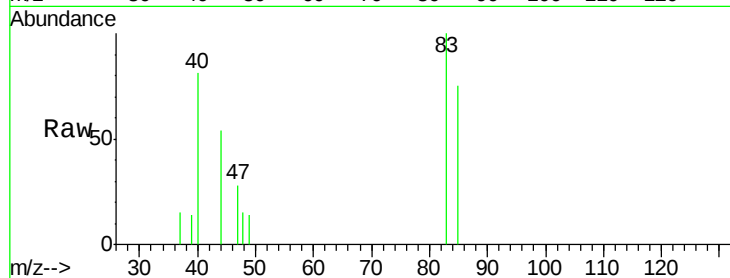
TP-1D

Tgt Ion: 83 Resp: 2765

Ion Ratio Lower Upper

83 100

85 74.8 51.4 77.0



#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN054953.D

Acq: 4 Apr 2019 17:45

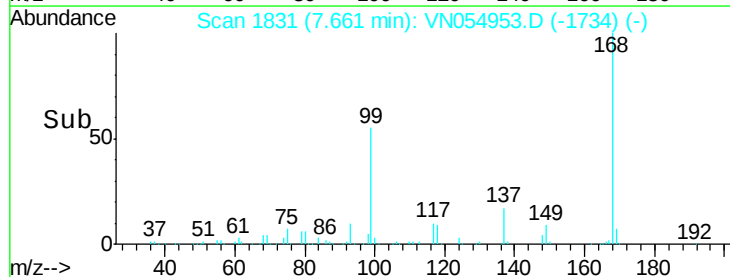
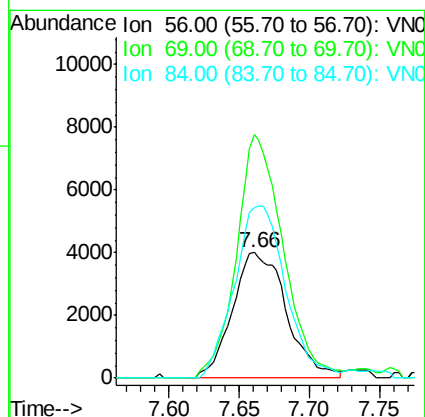
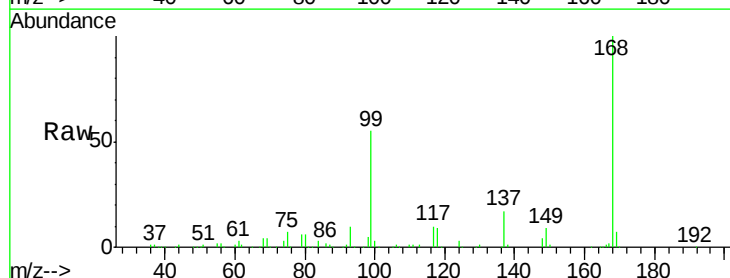
Tgt Ion: 56 Resp: 10738

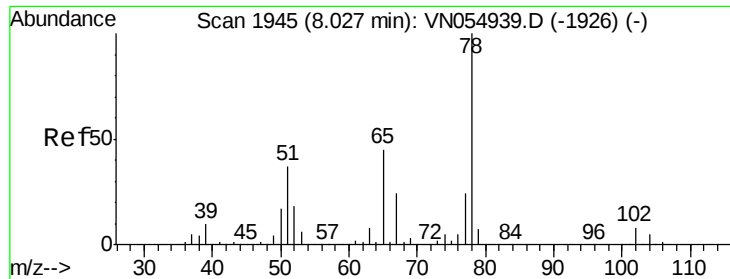
Ion Ratio Lower Upper

56 100

69 193.5 23.8 35.6#

84 135.8 61.8 92.8#

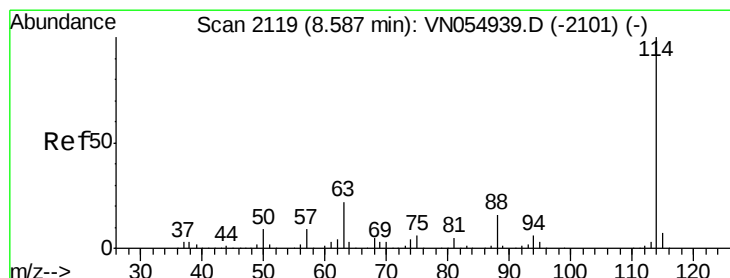
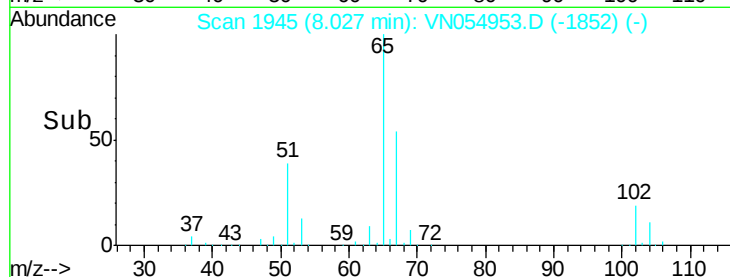
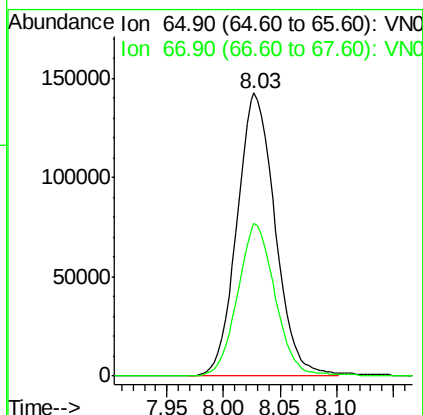
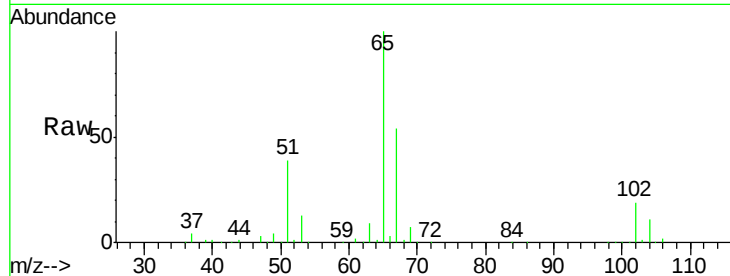




#33
 1,2-Dichloroethane-d4
 Concen: 50.283 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054953.D
 Acq: 4 Apr 2019 17:45

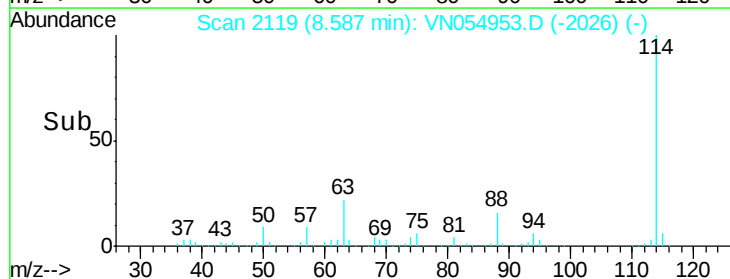
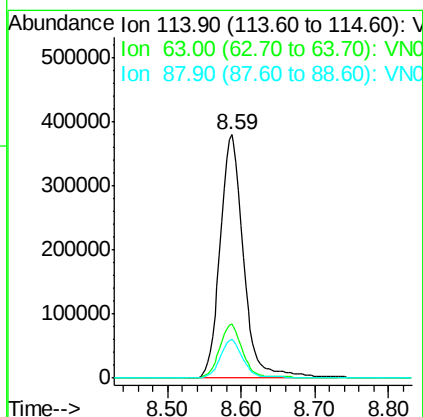
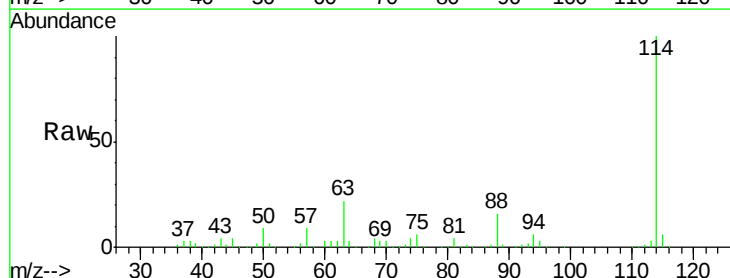
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1D

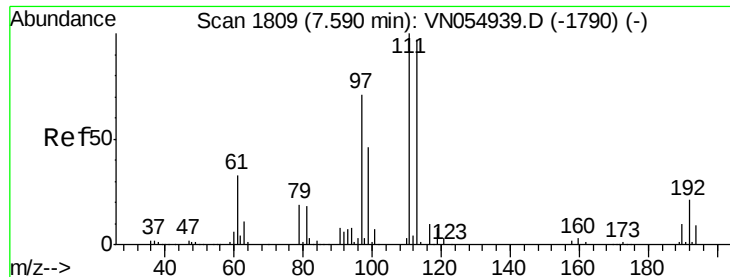
Tgt Ion: 65 Resp: 334623
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054953.D
 Acq: 4 Apr 2019 17:45

Tgt Ion: 114 Resp: 840829
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 44.6
 88 16.0 0.0 32.0





#35

Dibromofluoromethane

Concen: 48.654 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054953.D

Acq: 4 Apr 2019 17:45

Instrument :

MSVOA_N

ClientSampled :

TP-1D

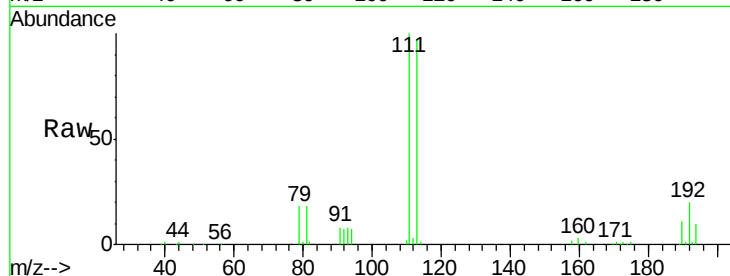
Tgt Ion:113 Resp: 266305

Ion Ratio Lower Upper

113 100

111 104.3 81.0 121.4

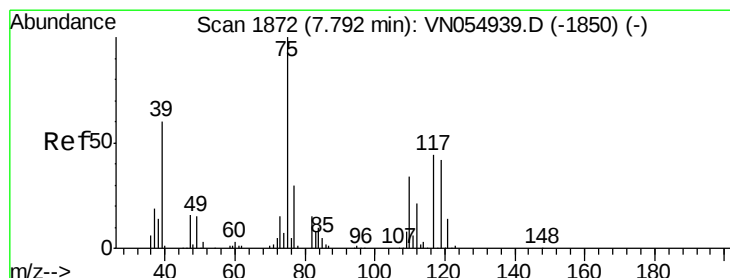
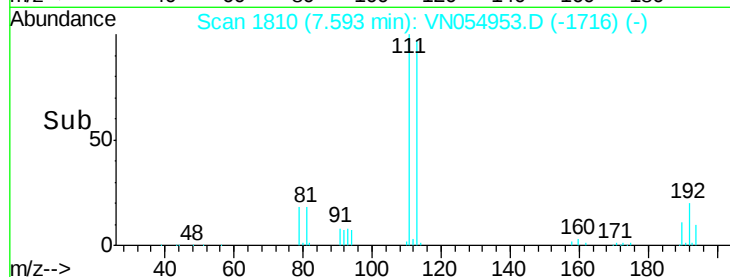
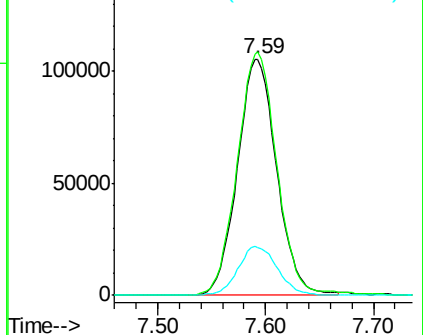
192 20.8 16.5 24.7



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.466 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN054953.D

Acq: 4 Apr 2019 17:45

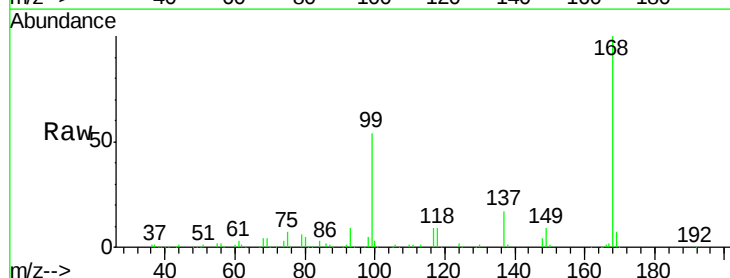
Tgt Ion: 75 Resp: 37208

Ion Ratio Lower Upper

75 100

110 9.2 17.0 50.9#

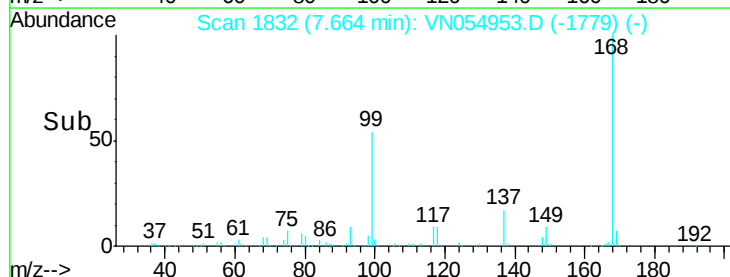
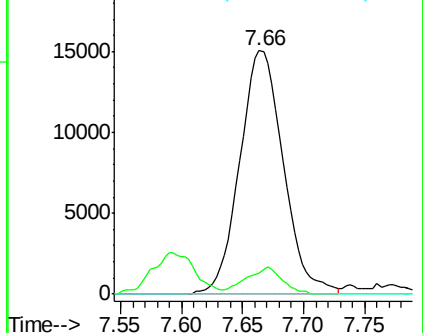
77 0.0 25.3 37.9#

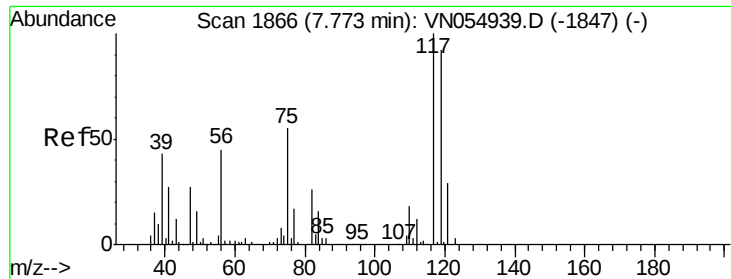


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VNO

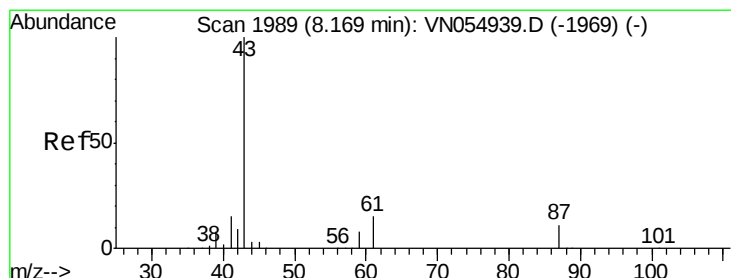
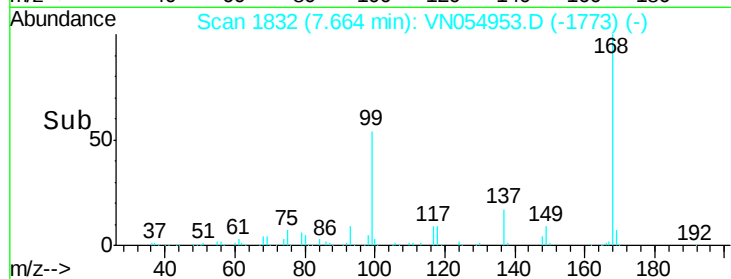
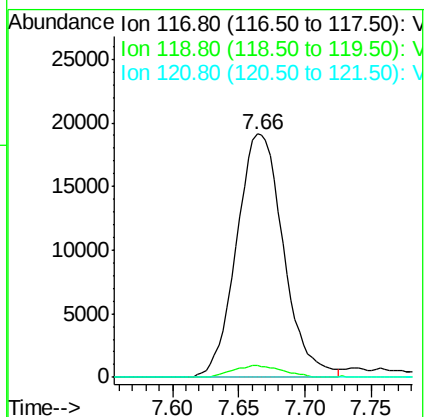
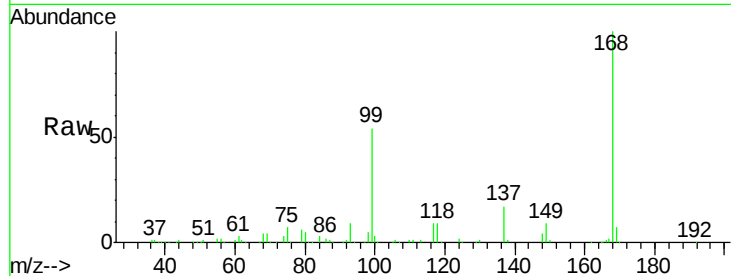




#38
Carbon Tetrachloride
Concen: 5.850 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN054953.D
Acq: 4 Apr 2019 17:45

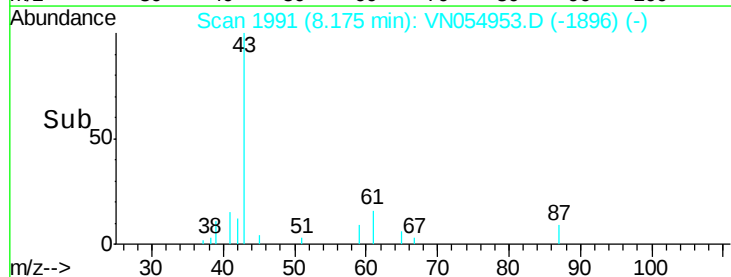
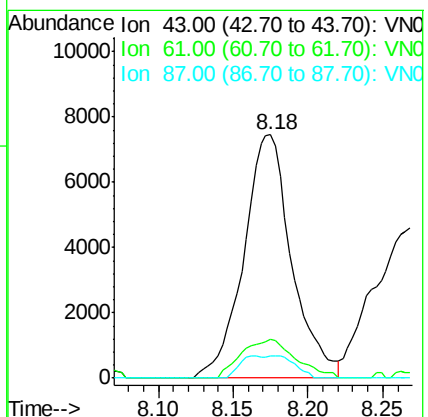
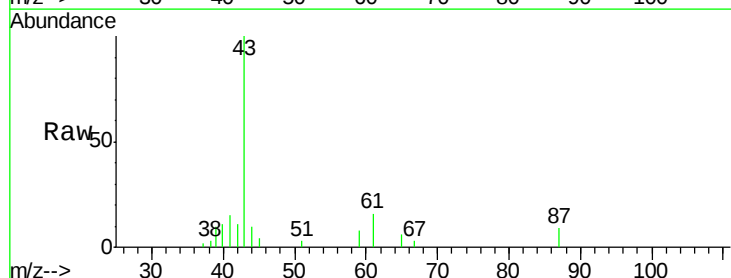
Instrument :
MSVOA_N
ClientSampled :
TP-1D

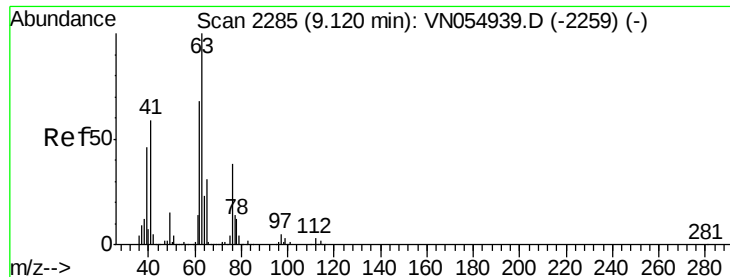
Tgt Ion:117 Resp: 47065
Ion Ratio Lower Upper
117 100
119 4.8 73.6 110.4#
121 0.0 23.4 35.0#



#43
Isopropyl Acetate
Concen: 1.726 ug/l
RT: 8.18 min Scan# 1991
Delta R.T. 0.01 min
Lab File: VN054953.D
Acq: 4 Apr 2019 17:45

Tgt Ion: 43 Resp: 16635
Ion Ratio Lower Upper
43 100
61 17.9 14.4 21.6
87 4.3 9.0 13.4#





#45

1,2-Dichloropropane

Concen: 0.229 ug/l

RT: 9.27 min Scan# 2333

Delta R.T. 0.15 min

Lab File: VN054953.D

Acq: 4 Apr 2019 17:45

Instrument :

MSVOA_N

ClientSampled :

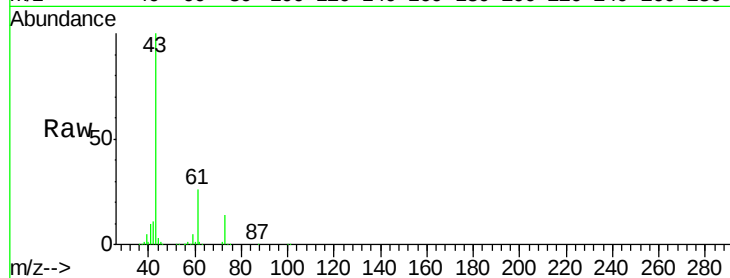
TP-1D

Tgt Ion: 63 Resp: 1532

Ion Ratio Lower Upper

63 100

65 0.0 24.6 37.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.27

800

600

400

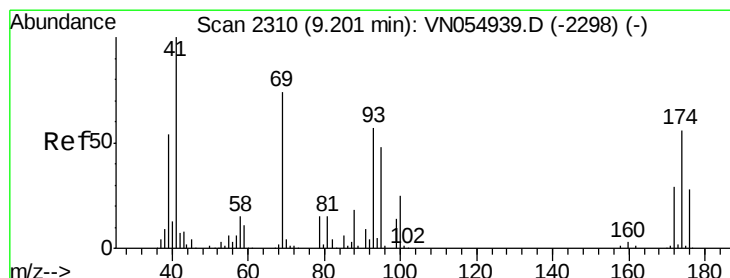
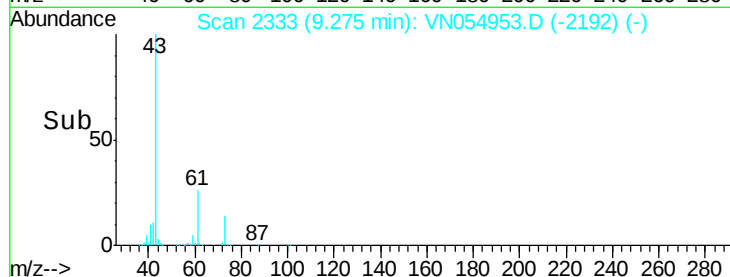
200

0

9.25

9.30

Time-->



#48

Methyl methacrylate

Concen: 1.735 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN054953.D

Acq: 4 Apr 2019 17:45

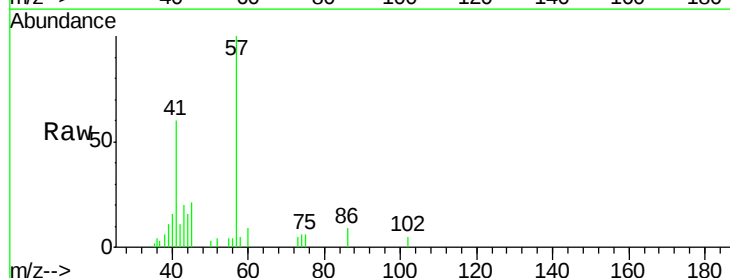
Tgt Ion: 41 Resp: 8464

Ion Ratio Lower Upper

41 100

69 0.0 58.9 88.3#

39 26.3 44.2 66.4#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

80000

60000

40000

20000

0

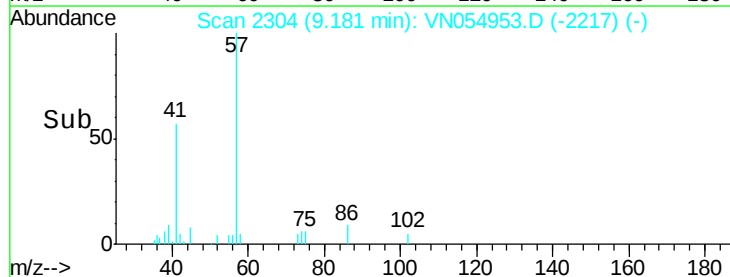
9.10

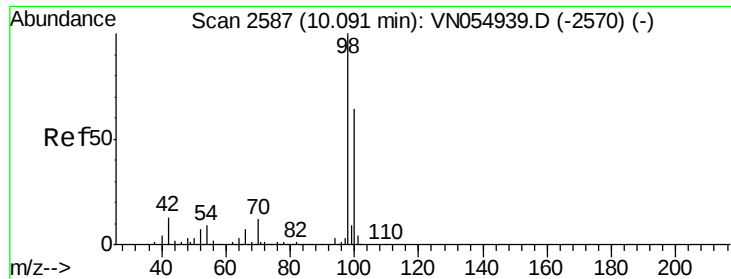
9.15

9.20

9.25

Time-->

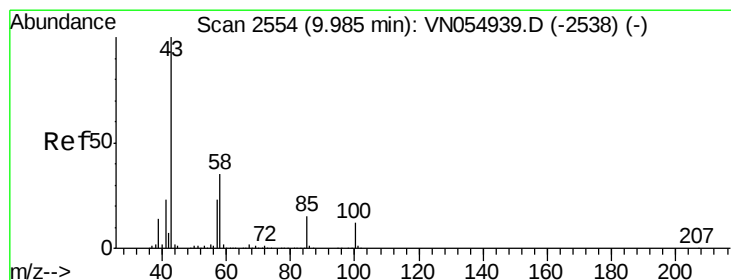
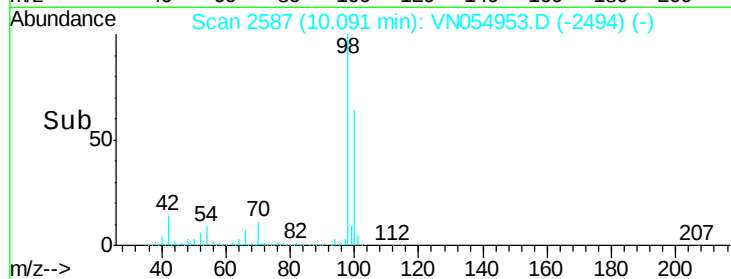
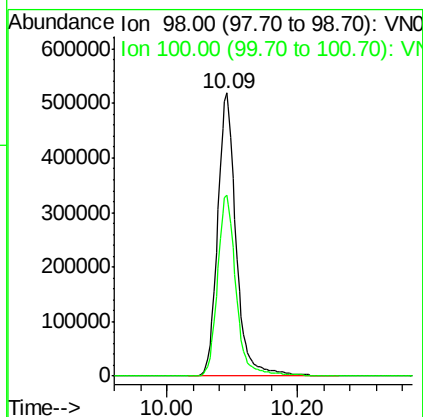
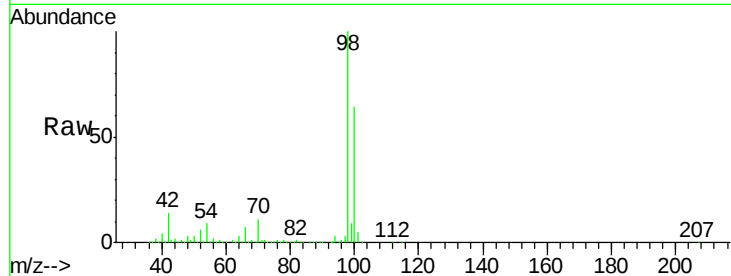




#50
Toluene-d8
Concen: 49.440 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN054953.D
Acq: 4 Apr 2019 17:45

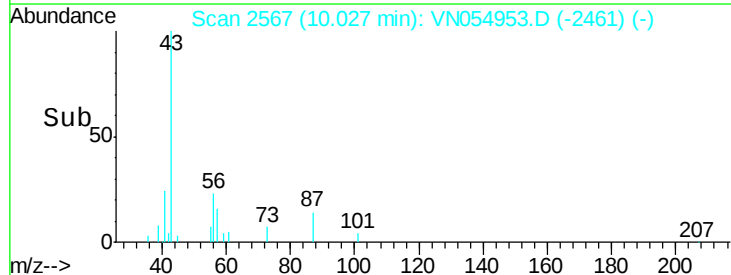
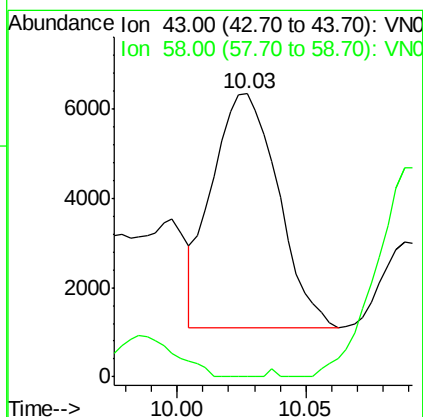
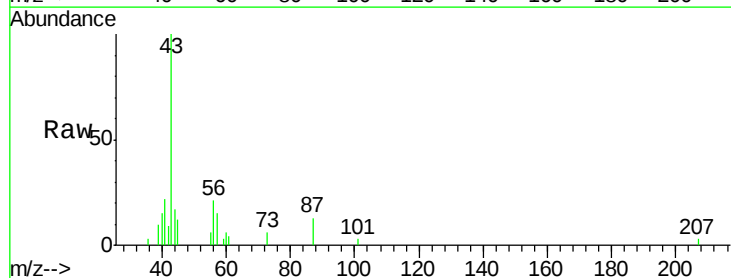
Instrument :
MSVOA_N
ClientSampled :
TP-1D

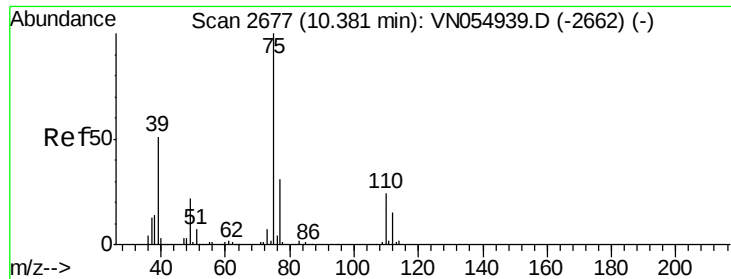
Tgt Ion: 98 Resp: 1026790
Ion Ratio Lower Upper
98 100
100 64.1 51.5 77.3



#51
4-Methyl-2-Pentanone
Concen: 1.736 ug/l
RT: 10.03 min Scan# 2567
Delta R.T. 0.04 min
Lab File: VN054953.D
Acq: 4 Apr 2019 17:45

Tgt Ion: 43 Resp: 9334
Ion Ratio Lower Upper
43 100
58 0.0 28.3 42.5#





#53

t-1,3-Dichloropropene

Concen: 2.042 ug/l

RT: 10.09 min Scan# 2588

Delta R.T. -0.29 min

Lab File: VN054953.D

Acq: 4 Apr 2019 17:45

Instrument :

MSVOA_N

ClientSampleId :

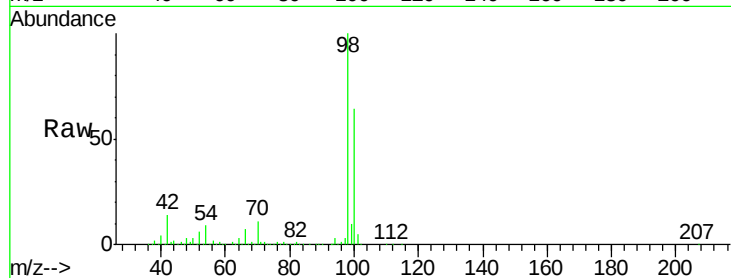
TP-1D

Tgt Ion: 75 Resp: 130

Ion Ratio Lower Upper

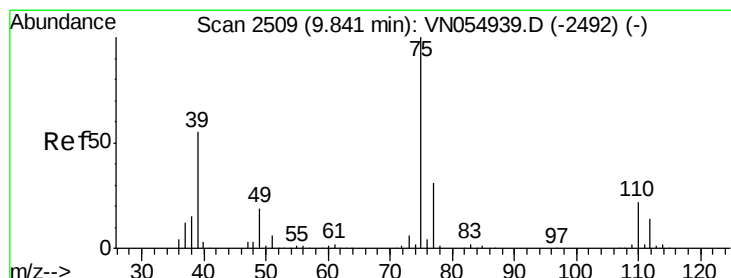
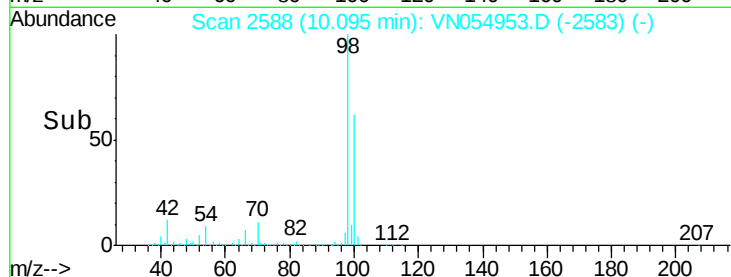
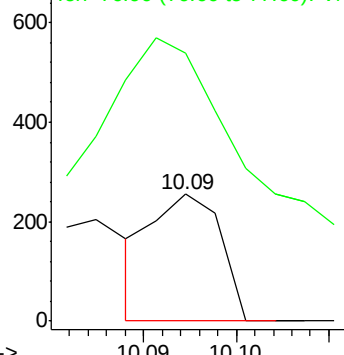
75 100

77 111.4 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#54

cis-1,3-Dichloropropene

Concen: 6.578 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN054953.D

Acq: 4 Apr 2019 17:45

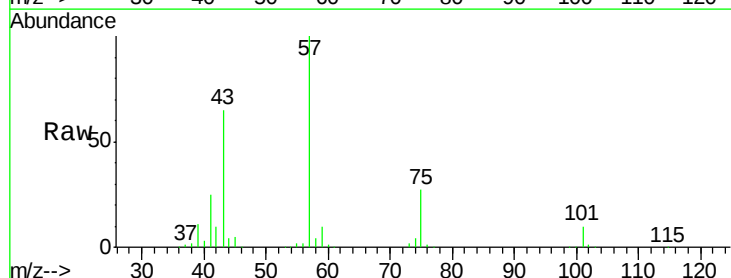
Tgt Ion: 75 Resp: 58899

Ion Ratio Lower Upper

75 100

77 0.7 25.0 37.4#

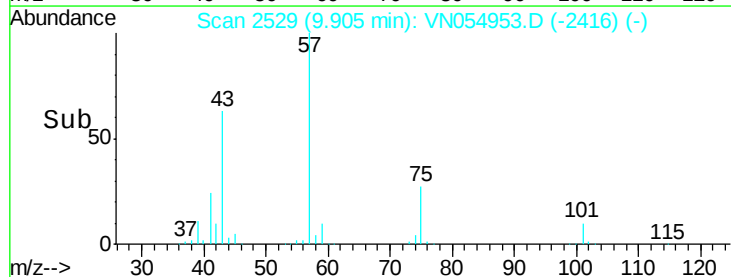
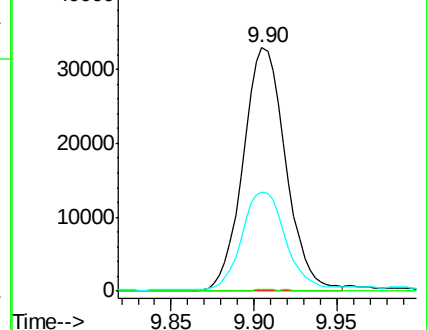
39 39.9 43.9 65.9#

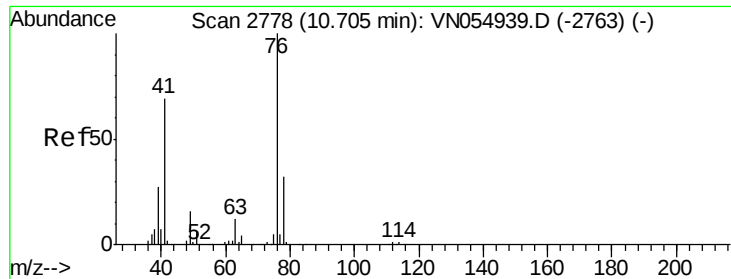


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

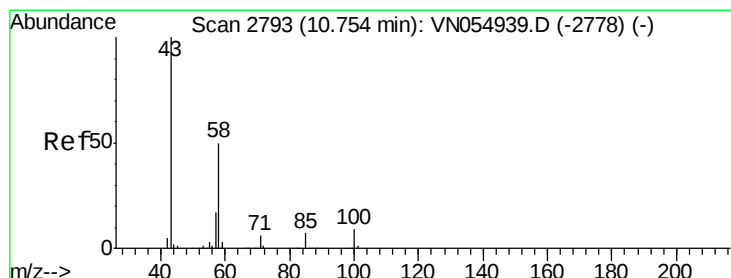
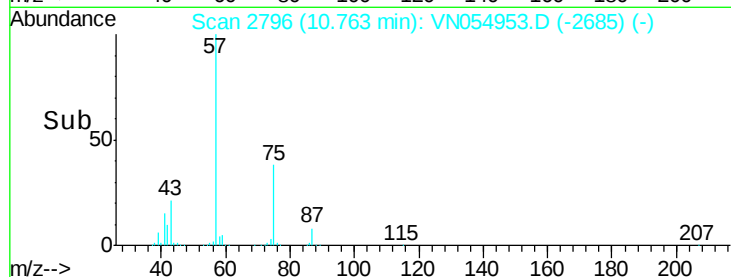
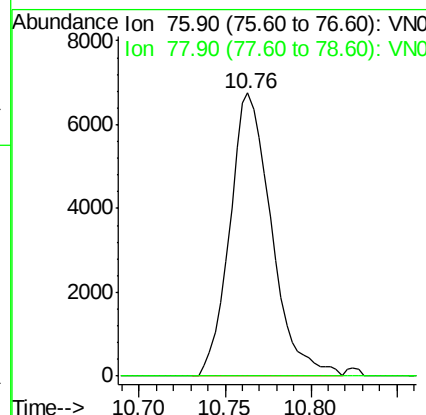
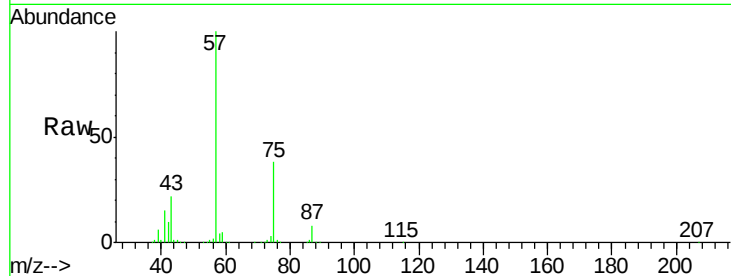




#57
 1,3-Dichloropropane
 Concen: 1.272 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN054953.D
 Acq: 4 Apr 2019 17:45

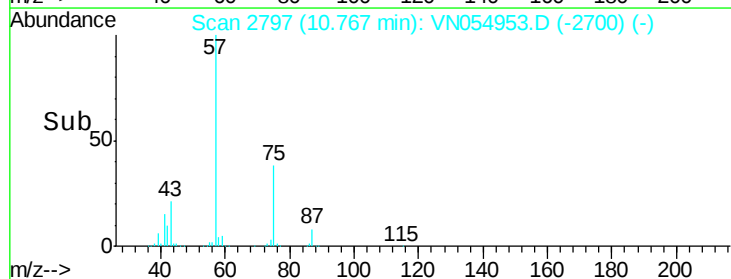
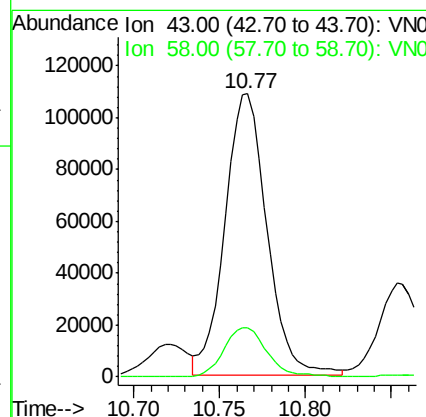
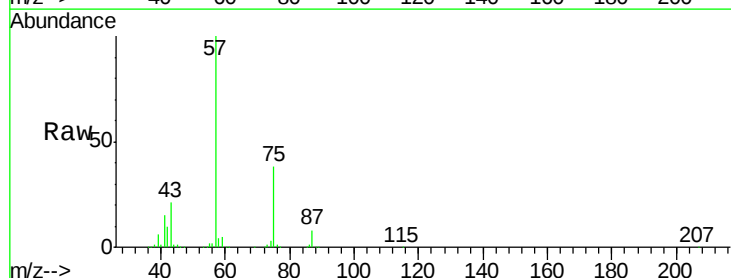
Instrument :
 MSVOA_N
 ClientSampled :
 TP-1D

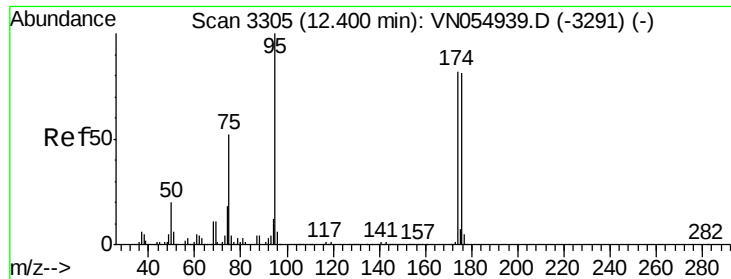
Tgt Ion: 76 Resp: 11380
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.9 38.9#



#59
 2-Hexanone
 Concen: 55.282 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.01 min
 Lab File: VN054953.D
 Acq: 4 Apr 2019 17:45

Tgt Ion: 43 Resp: 185613
 Ion Ratio Lower Upper
 43 100
 58 18.2 24.6 73.8#





#62

4-Bromofluorobenzene

Concen: 47.894 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054953.D

Acq: 4 Apr 2019 17:45

Instrument :

MSVOA_N

ClientSampleId :

TP-1D

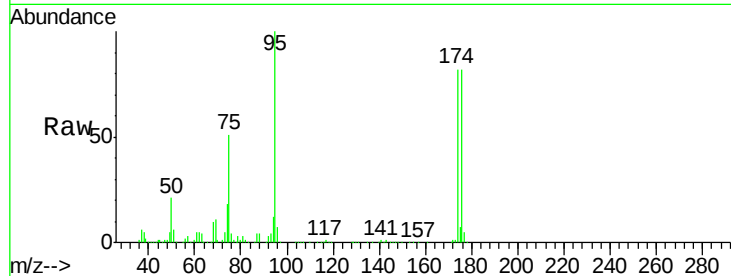
Tgt Ion: 95 Resp: 331946

Ion Ratio Lower Upper

95 100

174 83.4 0.0 166.2

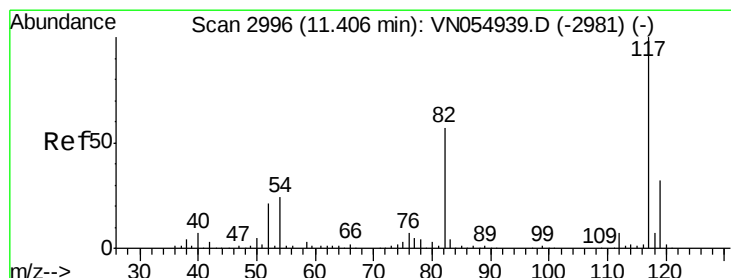
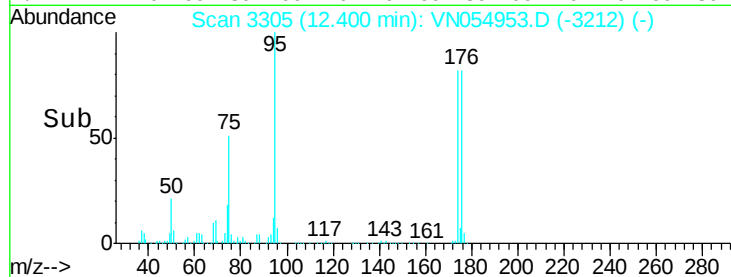
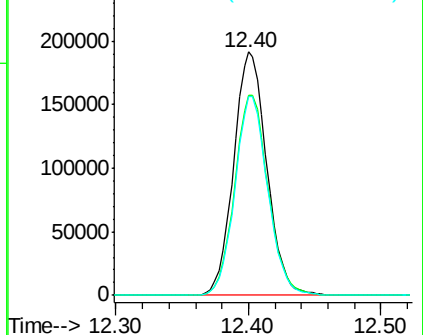
176 81.0 0.0 163.2



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN054953.D

Acq: 4 Apr 2019 17:45

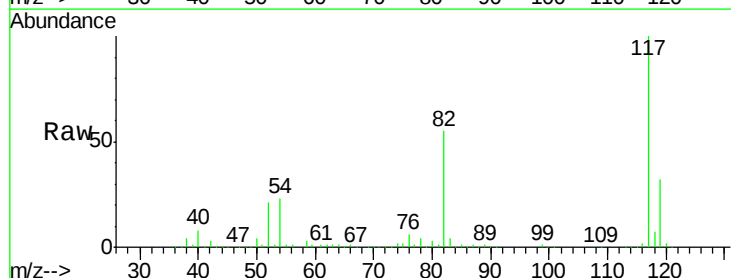
Tgt Ion: 117 Resp: 743610

Ion Ratio Lower Upper

117 100

82 55.3 45.3 67.9

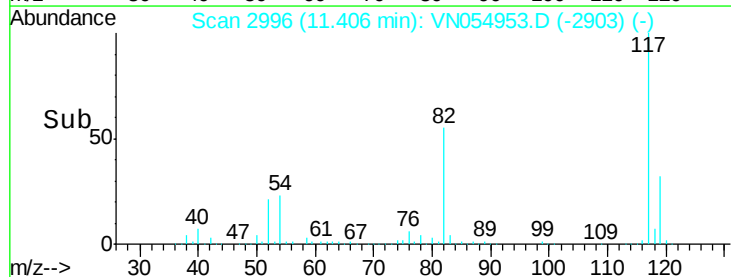
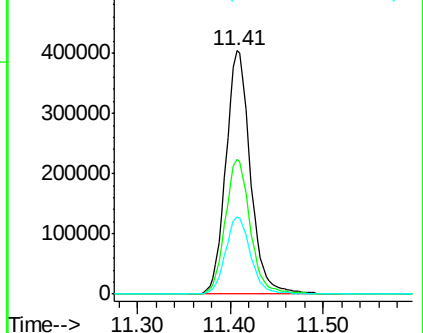
119 31.7 25.8 38.6

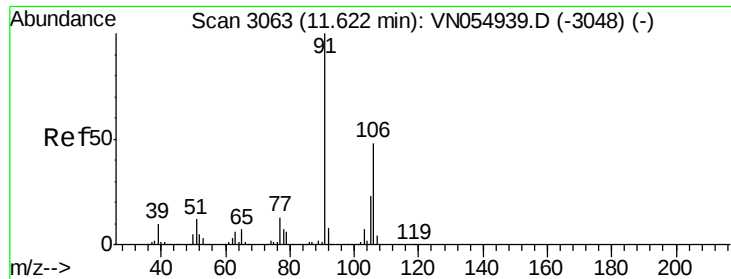


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0

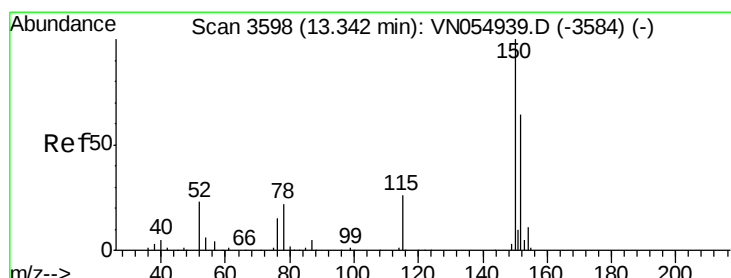
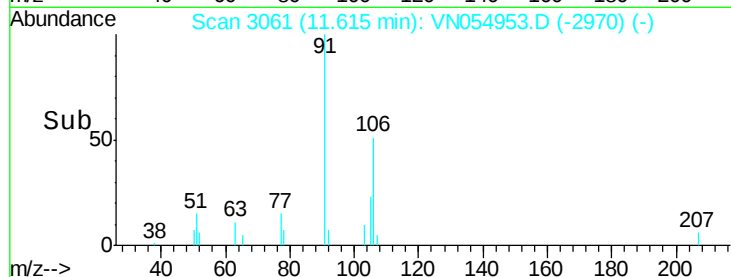
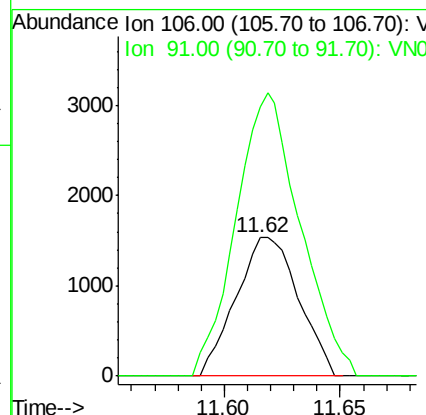
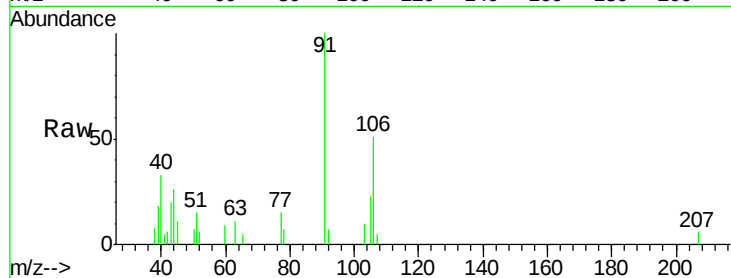




#68
m/p-Xylenes
Concen: 0.288 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. -0.01 min
Lab File: VN054953.D
Acq: 4 Apr 2019 17:45

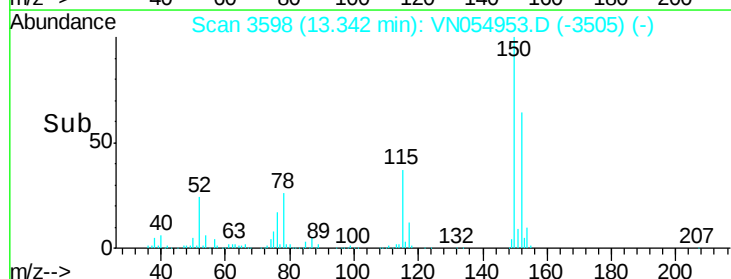
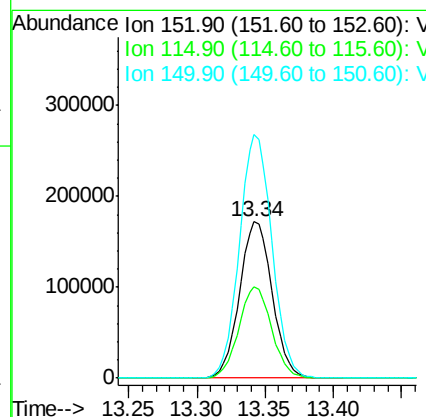
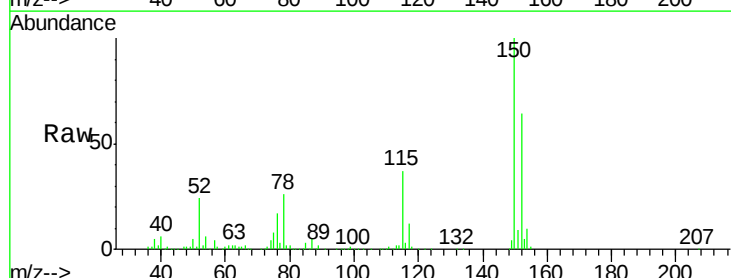
Instrument :
MSVOA_N
ClientSampleId :
TP-1D

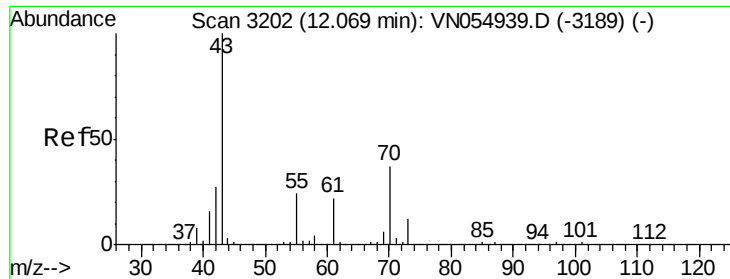
Tgt Ion:106 Resp: 2880
Ion Ratio Lower Upper
106 100
91 209.5 167.4 251.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN054953.D
Acq: 4 Apr 2019 17:45

Tgt Ion:152 Resp: 285435
Ion Ratio Lower Upper
152 100
115 58.6 28.9 86.8
150 155.9 0.0 345.4

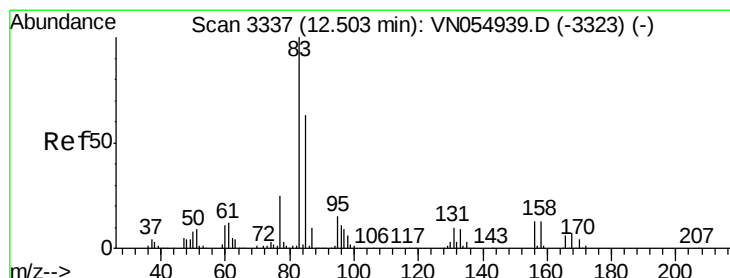
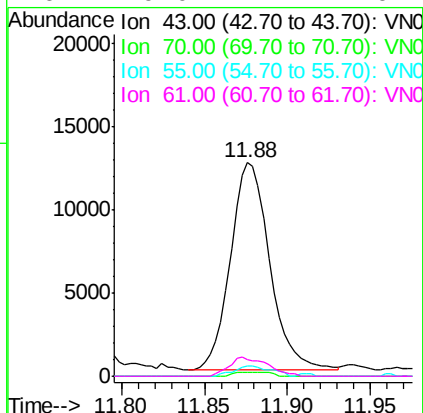
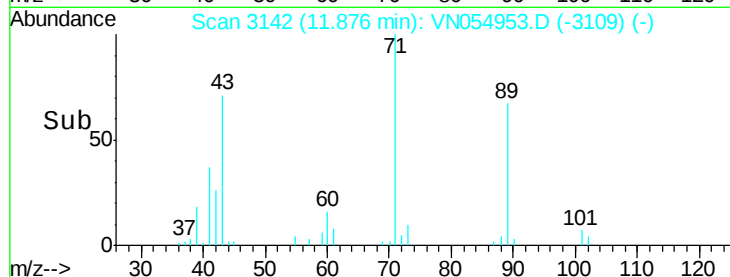
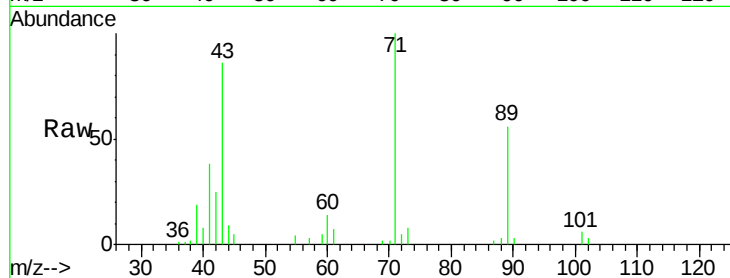




#74
N-amy1 acetate
Concen: 3.093 ug/l
RT: 11.88 min Scan# 3142
Delta R.T. -0.19 min
Lab File: VN054953.D
Acq: 4 Apr 2019 17:45

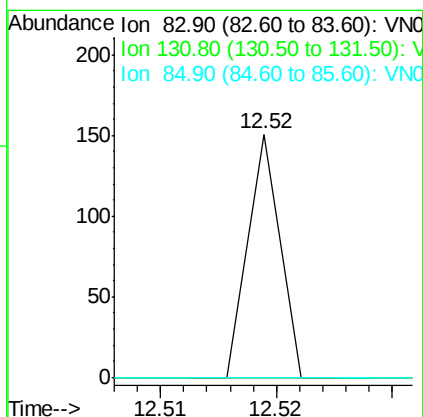
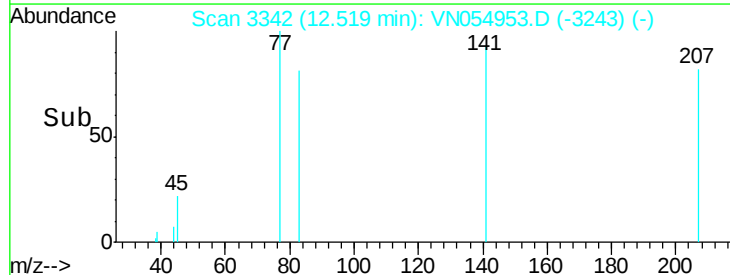
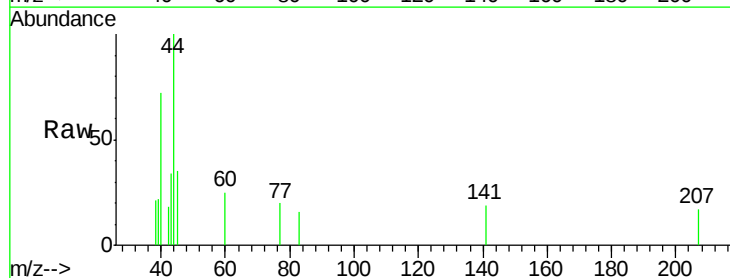
Instrument :
MSVOA_N
ClientSampleId :
TP-1D

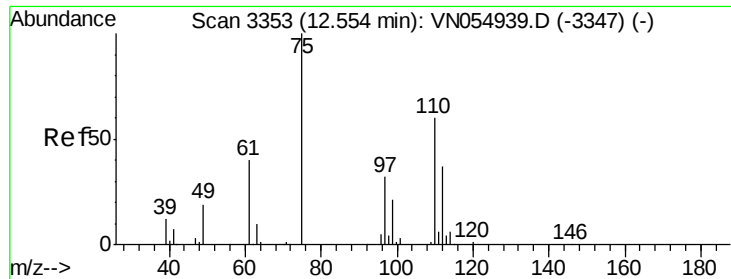
Tgt Ion: 43 Resp: 20731
Ion Ratio Lower Upper
43 100
70 1.8 29.3 43.9#
55 4.6 19.2 28.8#
61 9.0 17.4 26.2#



#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.52 min Scan# 3342
Delta R.T. 0.02 min
Lab File: VN054953.D
Acq: 4 Apr 2019 17:45

Tgt Ion: 83 Resp: 29
Ion Ratio Lower Upper
83 100
131 0.0 5.0 15.0#
85 0.0 31.4 94.0#





#76

1,2,3-Trichloropropane

Concen: 38.353 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054953.D

Acq: 4 Apr 2019 17:45

Instrument :

MSVOA_N

ClientSampleId :

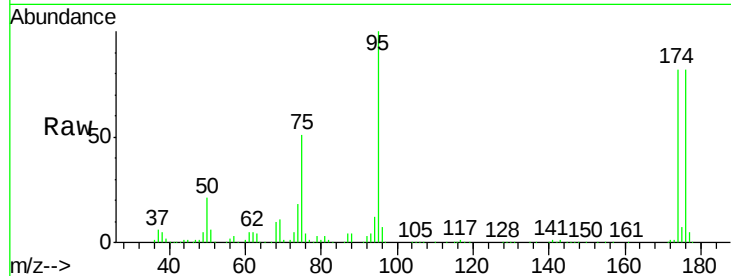
TP-1D

Tgt Ion: 75 Resp: 172276

Ion Ratio Lower Upper

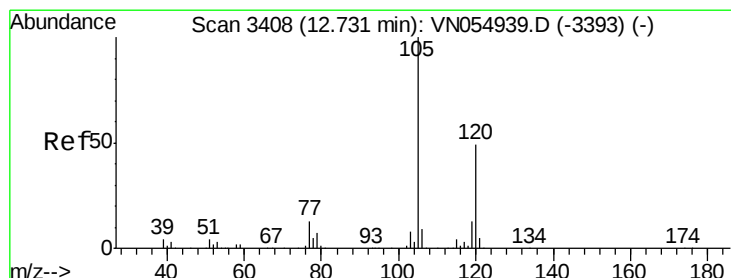
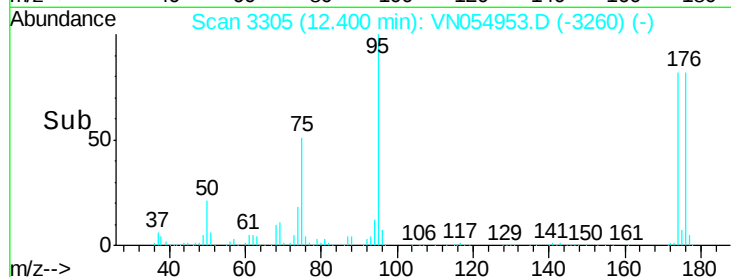
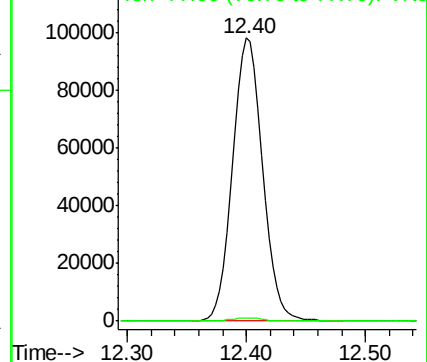
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#80

1,3,5-Trimethylbenzene

Concen: 0.458 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN054953.D

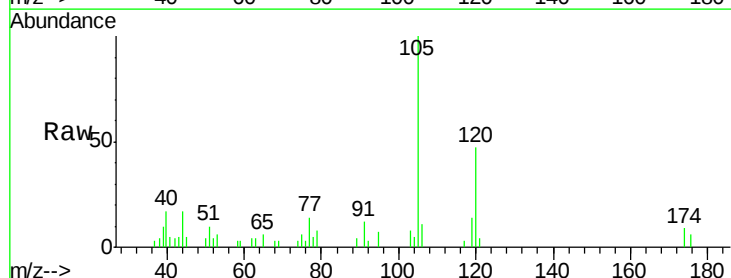
Acq: 4 Apr 2019 17:45

Tgt Ion: 105 Resp: 9078

Ion Ratio Lower Upper

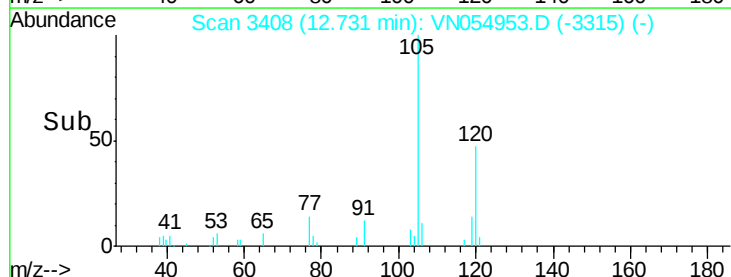
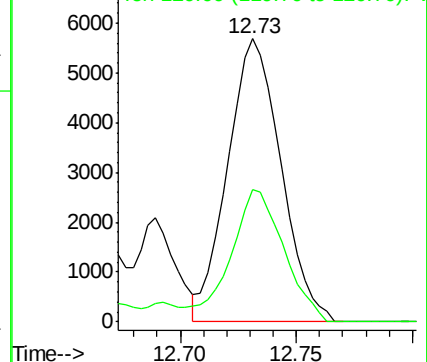
105 100

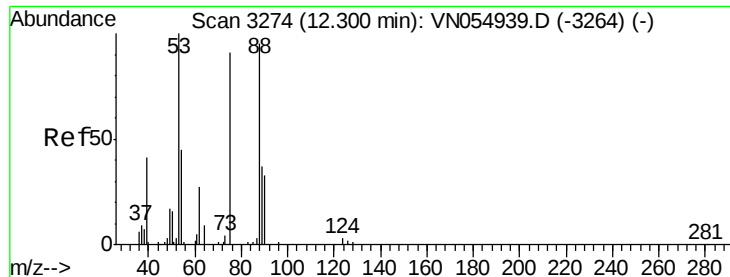
120 46.7 24.1 72.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 139.416 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054953.D

Acq: 4 Apr 2019 17:45

Instrument :

MSVOA_N

ClientSampled :

TP-1D

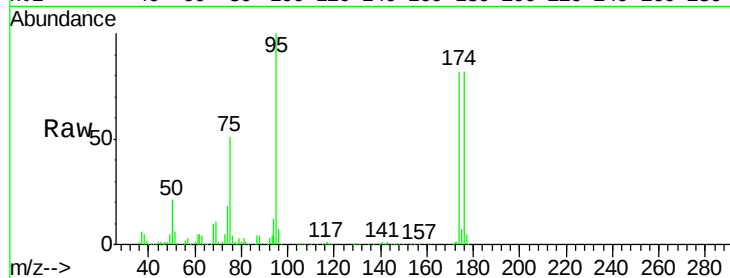
Tgt Ion: 75 Resp: 172276

Ion Ratio Lower Upper

75 100

53 0.0 92.8 139.2#

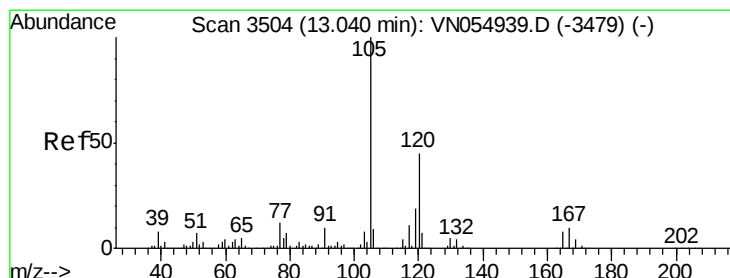
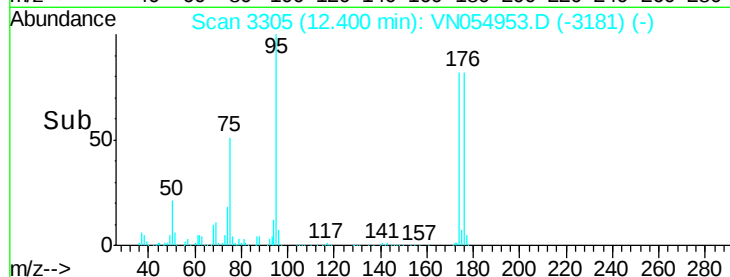
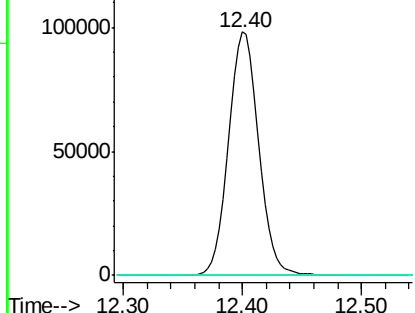
89 0.0 36.7 55.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#84

1,2,4-Trimethylbenzene

Concen: 0.675 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN054953.D

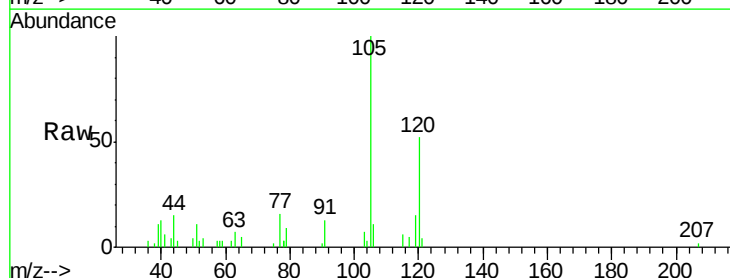
Acq: 4 Apr 2019 17:45

Tgt Ion: 105 Resp: 12933

Ion Ratio Lower Upper

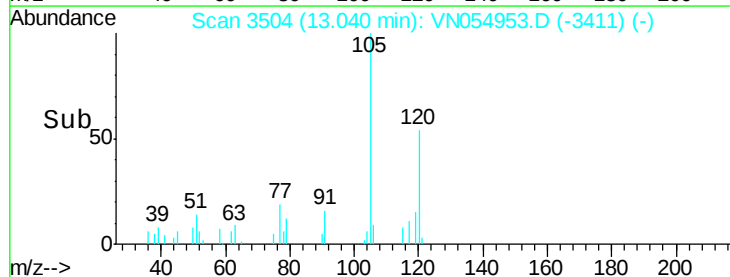
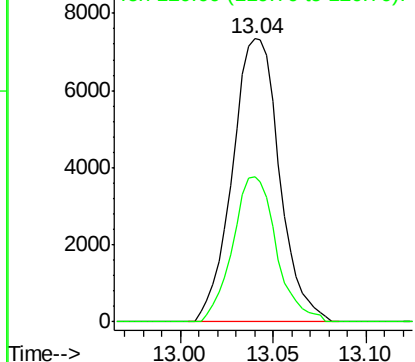
105 100

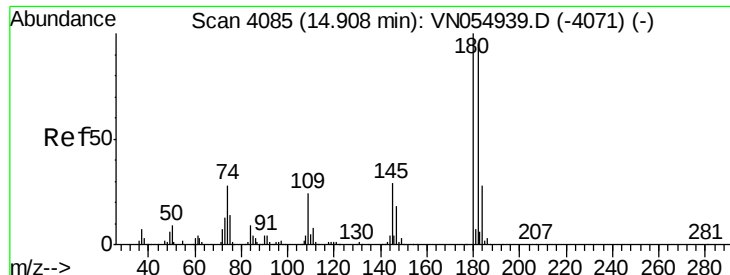
120 47.4 22.4 67.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

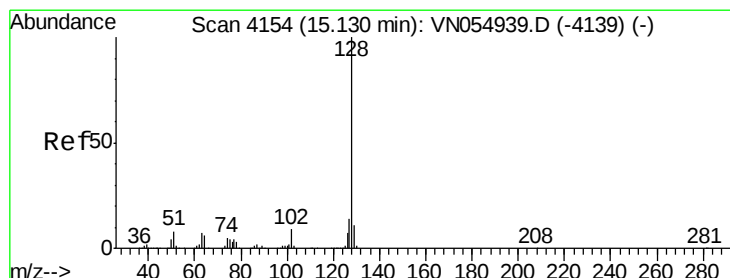
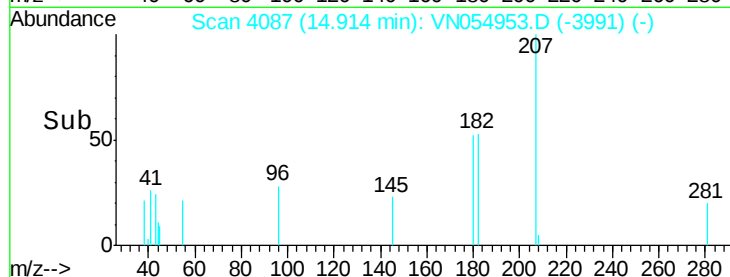
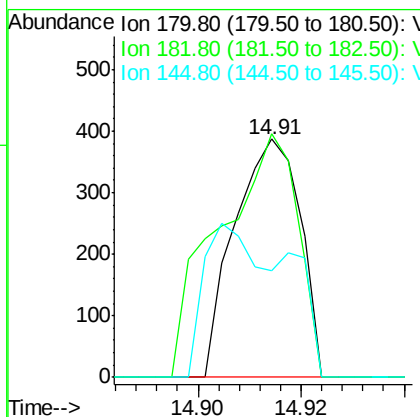
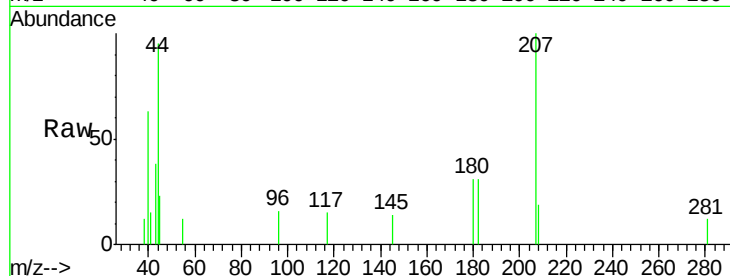




#93
 1,2,4-Trichlorobenzene
 Concen: 2.518 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.01 min
 Lab File: VN054953.D
 Acq: 4 Apr 2019 17:45

Instrument :
 MSVOA_N
 ClientSampled :
 TP-1D

Tgt Ion:180 Resp: 340
 Ion Ratio Lower Upper
 180 100
 182 123.5 47.5 142.6
 145 80.9 14.6 43.8#



#95
 Naphthalene
 Concen: 3.624 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN054953.D
 Acq: 4 Apr 2019 17:45

Tgt Ion:128 Resp: 8665
 Ion Ratio Lower Upper
 128 100
 127 8.3 10.6 16.0#
 129 10.9 8.6 13.0

