

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071719\
 Data File : VN056787.D
 Acq On : 17 Jul 2019 11:28
 Operator : JC/SP
 Sample : K3847-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-3

Quant Time: Jul 18 01:04:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 07:03:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	254021	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	452395	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	478232	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	166056	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	149536	53.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.44%	
35) Dibromofluoromethane	7.59	113	136907	48.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.26%	
50) Toluene-d8	10.09	98	571448	52.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.10%	
62) 4-Bromofluorobenzene	12.40	95	203478	55.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.98%	

Target Compounds

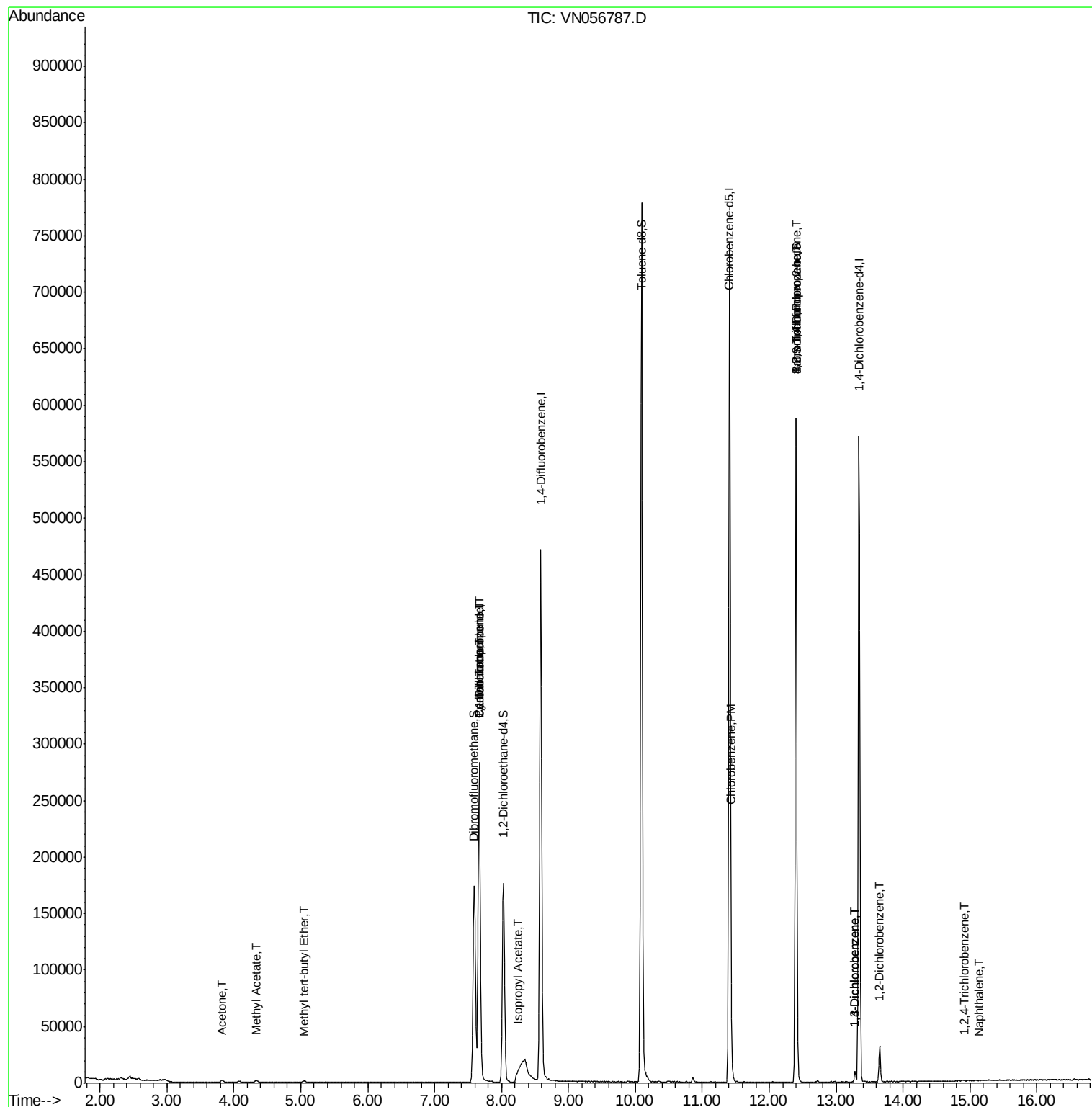
						Qvalue
16) Acetone	3.83	43	4038	3.119	ug/l	98
18) Methyl Acetate	4.34	43	3816	0.345	ug/l	93
19) Methyl tert-butyl Ether	5.06	73	2341	0.308	ug/l	93
31) Cyclohexane	7.67	56	3874	0.862	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	16664	3.981	ug/l #	49
38) Carbon Tetrachloride	7.66	117	21969	5.596	ug/l #	15
43) Isopropyl Acetate	8.25	43	9838	1.517	ug/l #	53
65) Chlorobenzene	11.44	112	2224	0.227	ug/l	95
71) Bromoform	12.40	173	1557	0.568	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	95720	26.355	ug/l #	100
79) 2-Chlorotoluene	12.40	91	673	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	95720	81.394	ug/l #	13
87) 1,3-Dichlorobenzene	13.28	146	5090	0.887	ug/l	100
88) 1,4-Dichlorobenzene	13.28	146	5090	0.912	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	14813	2.524	ug/l	96
93) 1,2,4-Trichlorobenzene	14.91	180	105	3.721	ug/l #	7
95) Naphthalene	15.14	128	296	4.556	ug/l #	69

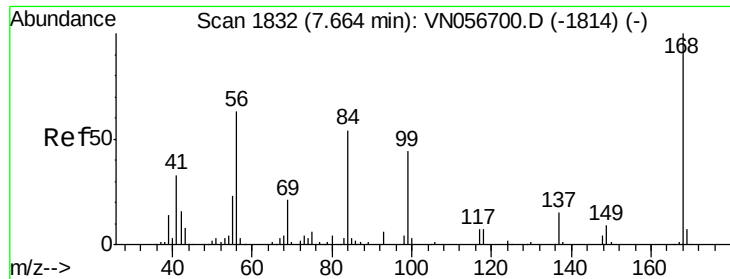
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN056787.D

Acq: 17 Jul 2019 11:28

Instrument :

MSVOA_N

ClientSampleId :

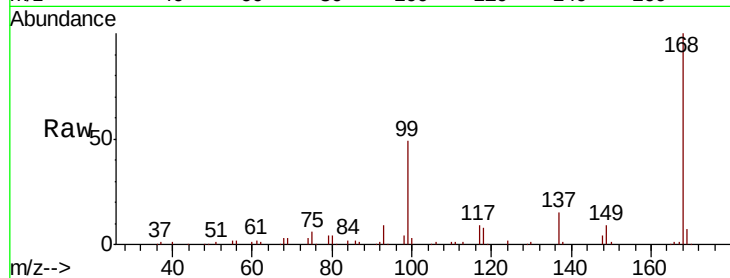
MW-3

Tot Ion:168 Resp: 254021

Ion Ratio Lower Upper

168 100

99 49.2 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

120000

100000

80000

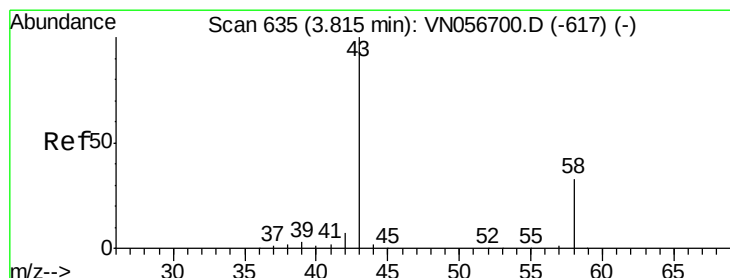
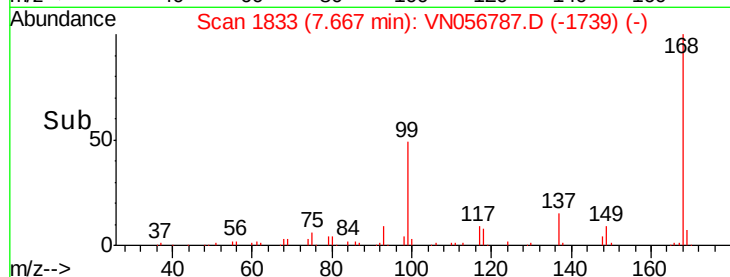
60000

40000

20000

0

Time-->



#16

Acetone

Concen: 3.119 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN056787.D

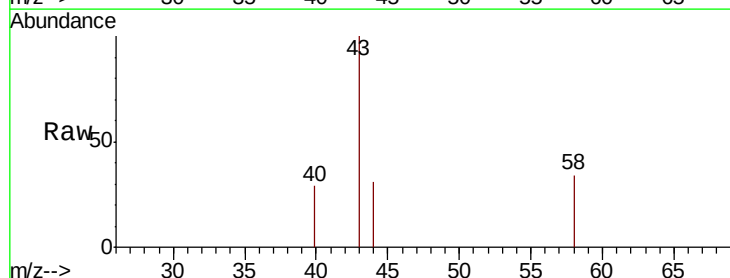
Acq: 17 Jul 2019 11:28

Tgt Ion: 43 Resp: 4038

Ion Ratio Lower Upper

43 100

58 34.5 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.83

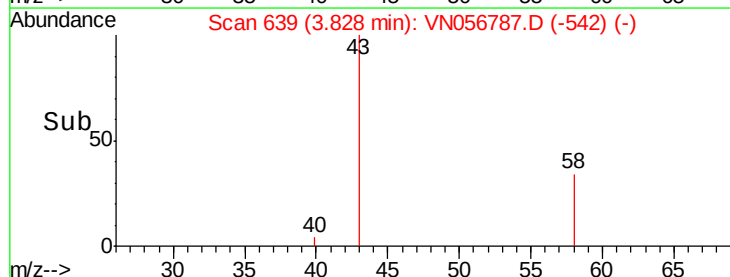
1500

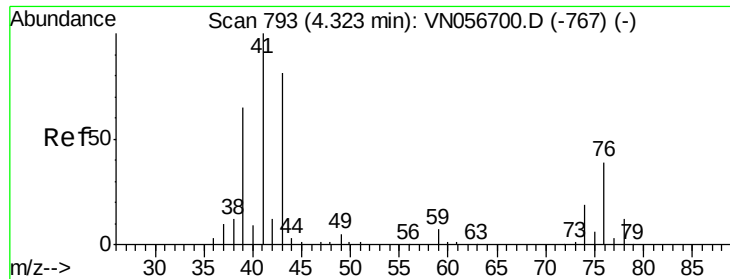
1000

500

0

Time-->

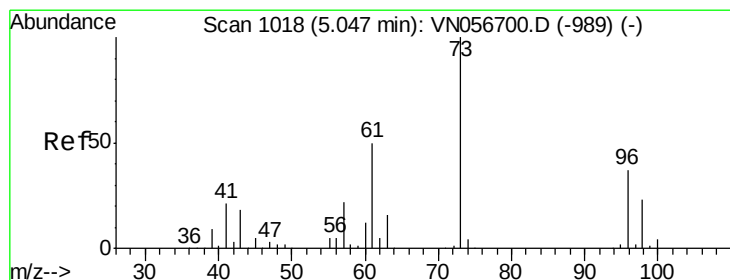
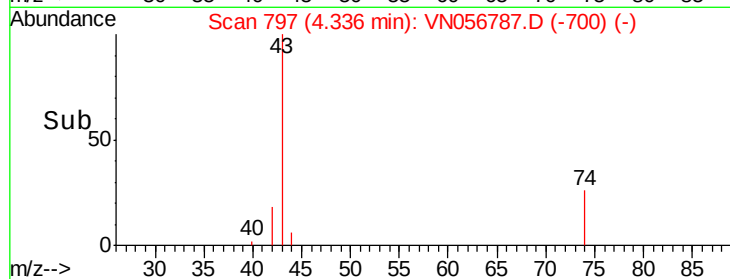
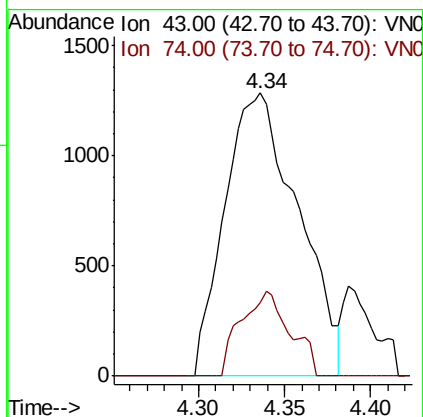
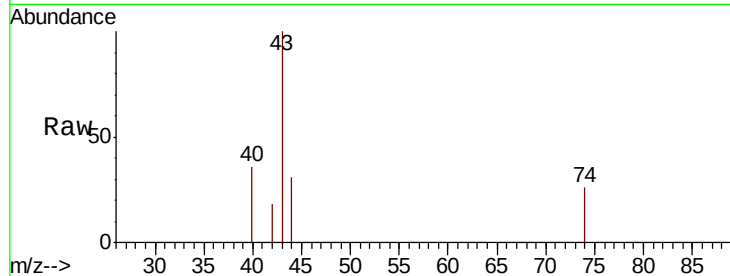




#18
Methyl Acetate
Concen: 0.345 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN056787.D
Acq: 17 Jul 2019 11:28

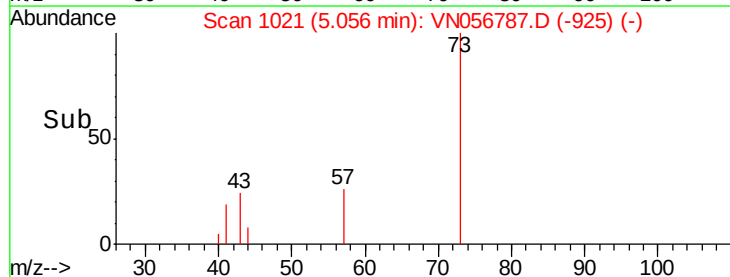
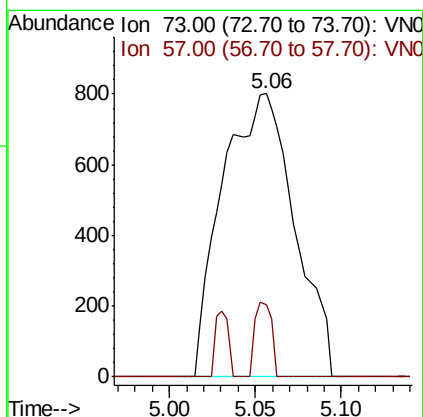
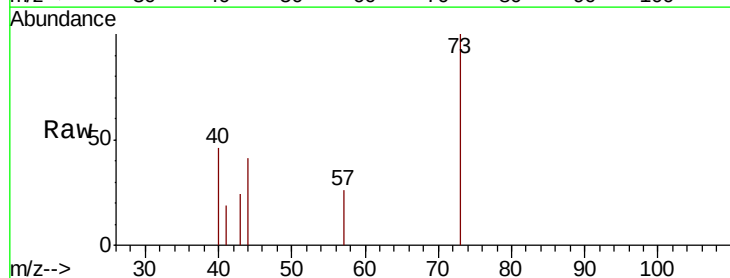
Instrument :
MSVOA_N
ClientSampled :
MW-3

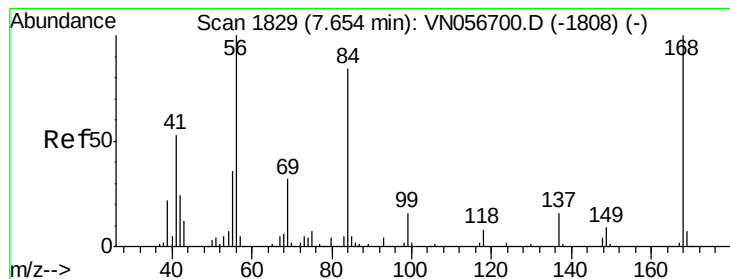
Tot Ion: 43 Resp: 3816
Ion Ratio Lower Upper
43 100
74 20.0 18.9 28.3



#19
Methyl tert-butyl Ether
Concen: 0.308 ug/l
RT: 5.06 min Scan# 1021
Delta R.T. 0.01 min
Lab File: VN056787.D
Acq: 17 Jul 2019 11:28

Tgt Ion: 73 Resp: 2341
Ion Ratio Lower Upper
73 100
57 25.6 17.9 26.9





#31

Cyclohexane

Concen: 0.862 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN056787.D

Acq: 17 Jul 2019 11:28

Instrument :

MSVOA_N

ClientSampled :

MW-3

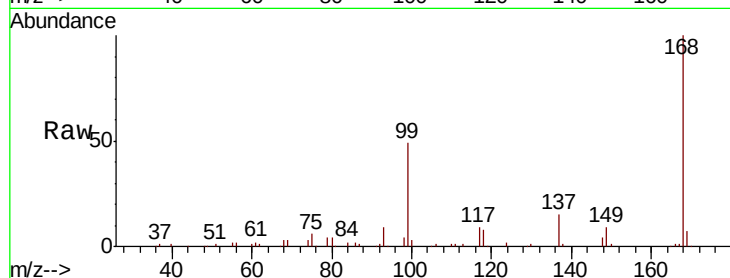
Tot Ion: 56 Resp: 3874

Ion Ratio Lower Upper

56 100

69 204.4 25.8 38.8#

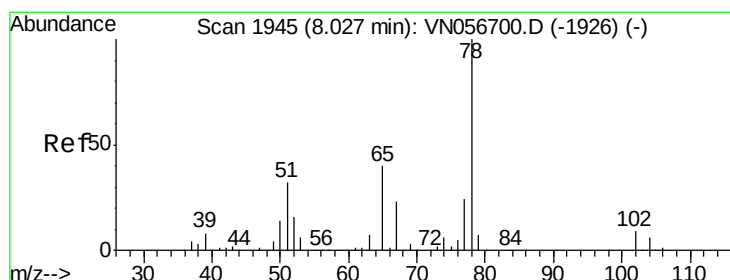
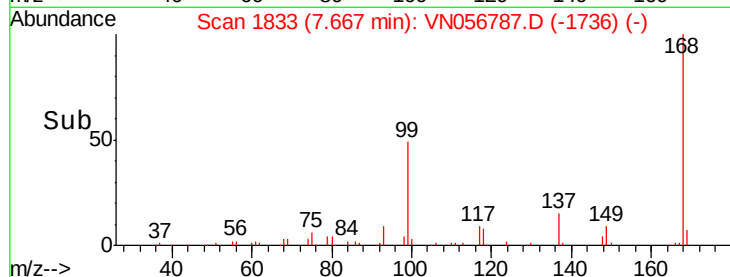
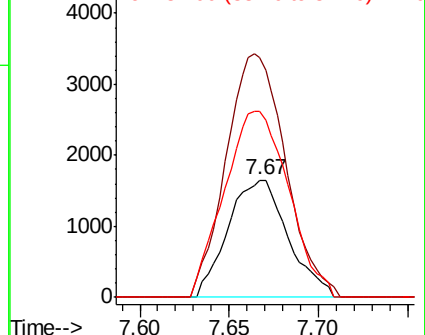
84 158.7 67.4 101.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 53.219 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN056787.D

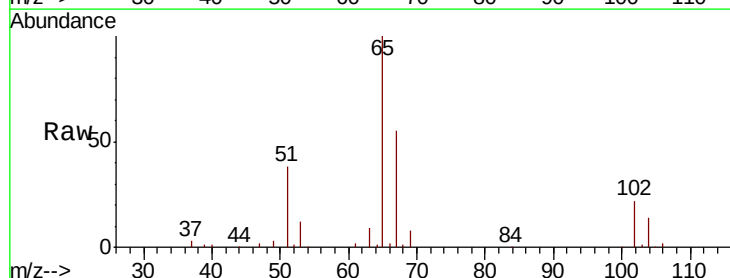
Acq: 17 Jul 2019 11:28

Tgt Ion: 65 Resp: 149536

Ion Ratio Lower Upper

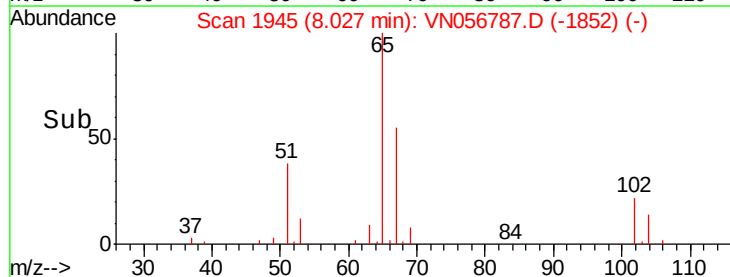
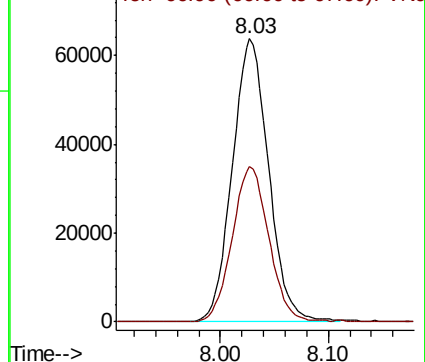
65 100

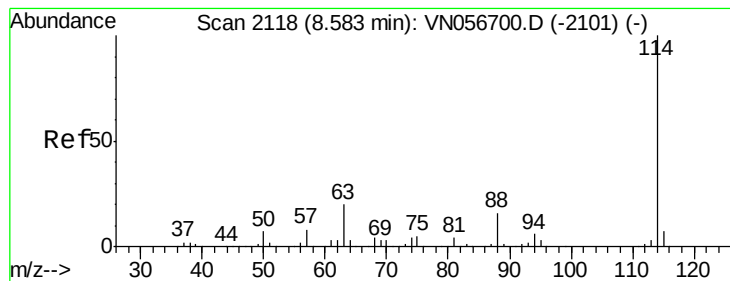
67 55.4 0.0 109.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN056787.D

Acq: 17 Jul 2019 11:28

Instrument :

MSVOA_N

ClientSampled :

MW-3

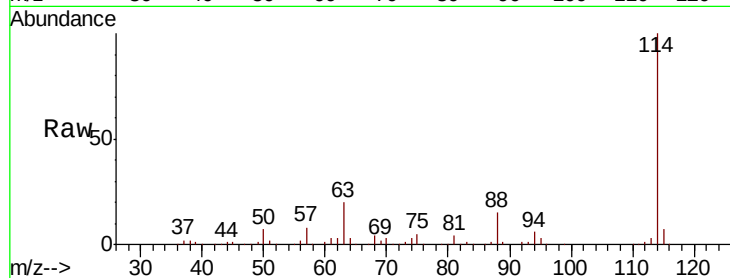
Tot Ion:114 Resp: 452395

Ion Ratio Lower Upper

114 100

63 19.5 0.0 39.4

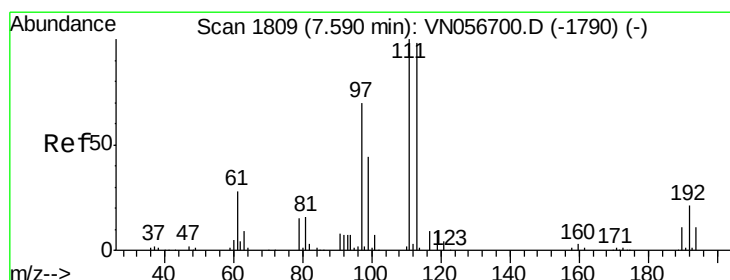
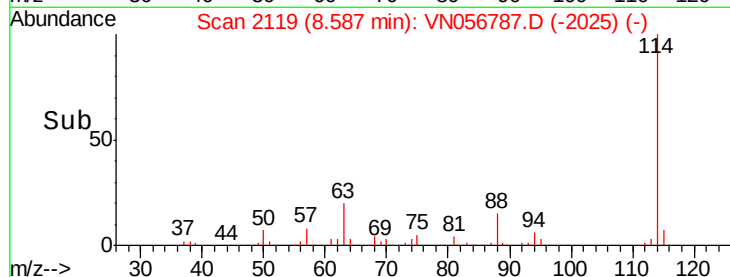
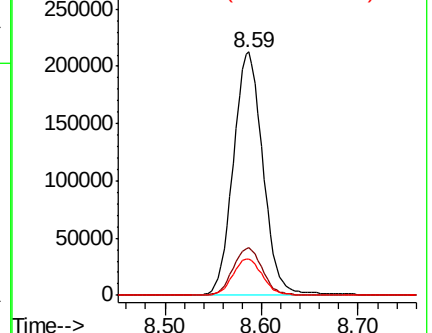
88 15.0 0.0 31.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 48.629 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN056787.D

Acq: 17 Jul 2019 11:28

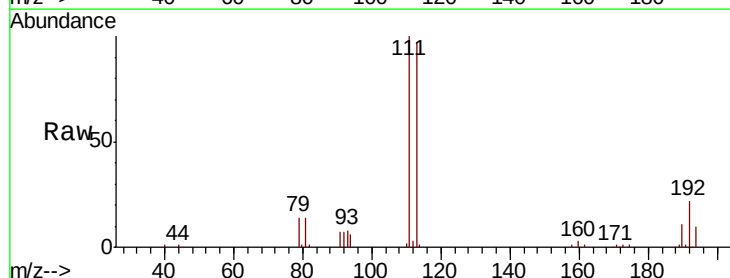
Tgt Ion:113 Resp: 136907

Ion Ratio Lower Upper

113 100

111 101.7 81.8 122.6

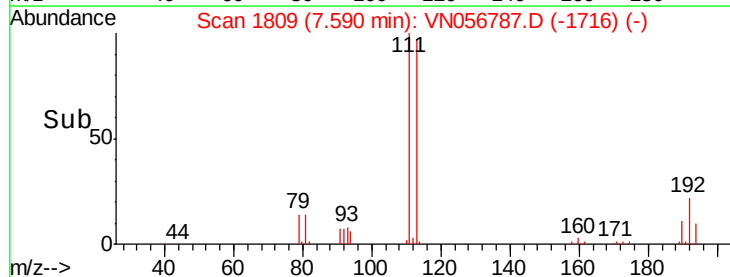
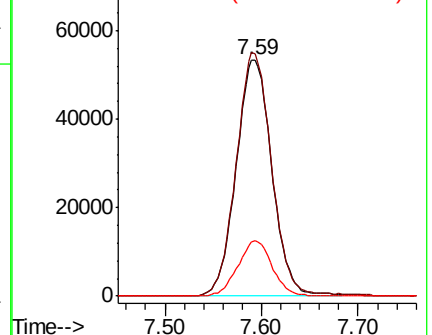
192 22.5 17.5 26.3

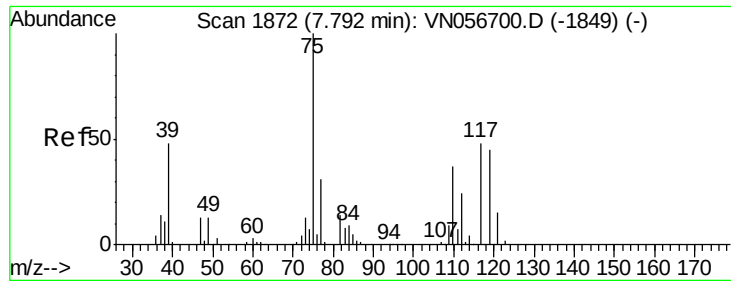


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

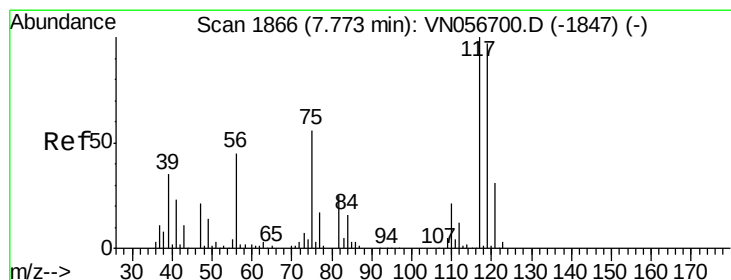
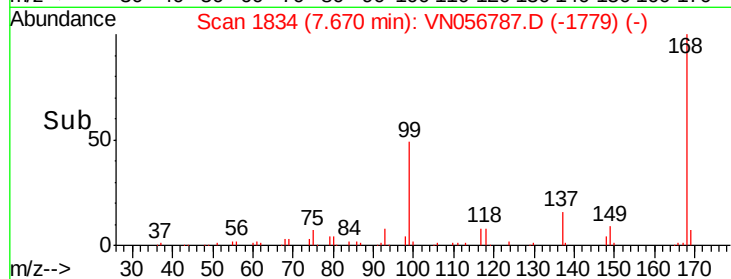
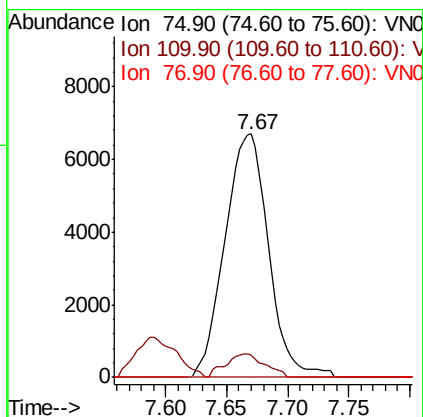
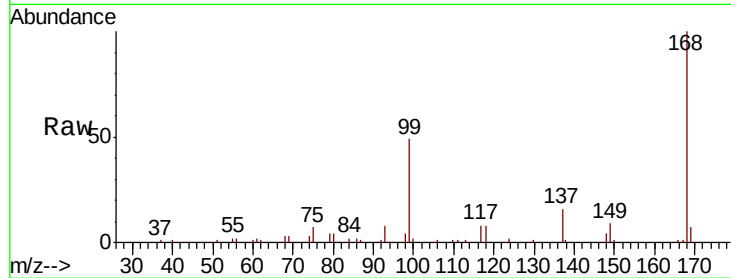




#36
 1,1-Dichloropropene
 Concen: 3.981 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN056787.D
 Acq: 17 Jul 2019 11:28

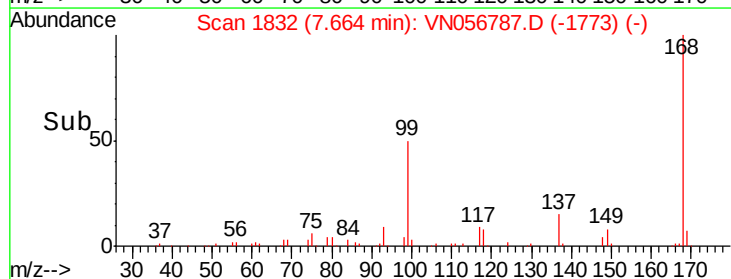
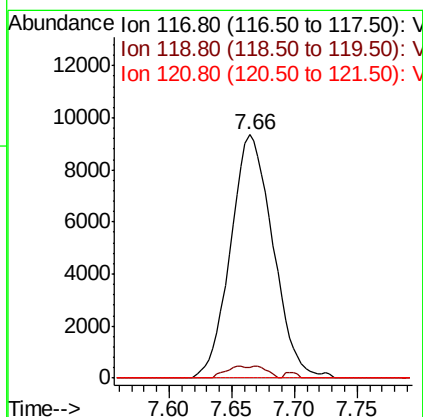
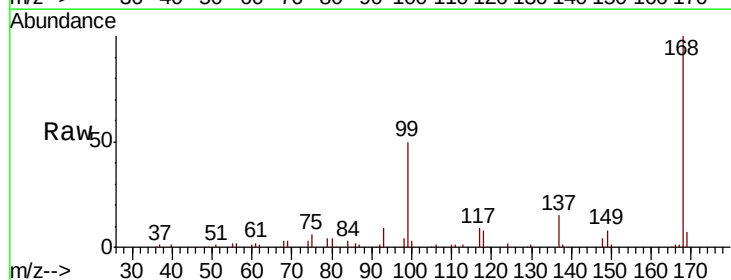
Instrument :
 MSVOA_N
 ClientSampled :
 MW-3

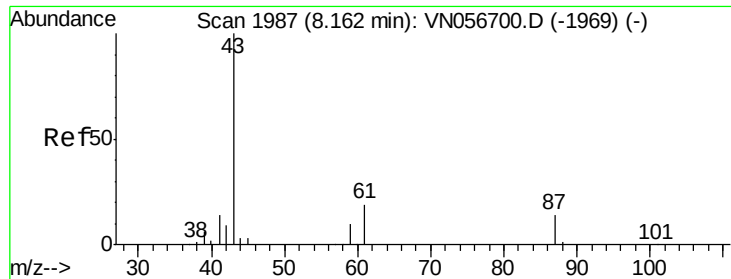
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.7	18.4	55.4#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.596 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN056787.D
 Acq: 17 Jul 2019 11:28

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.5	77.5	116.3#
121	0.0	24.7	37.1#

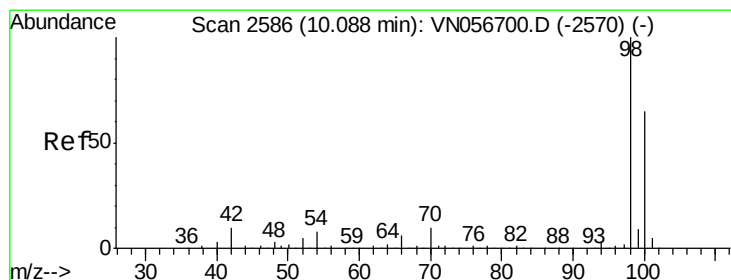
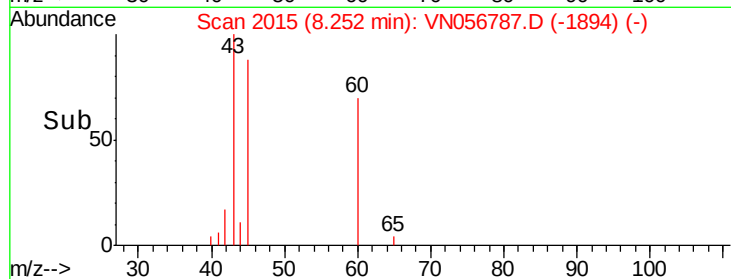
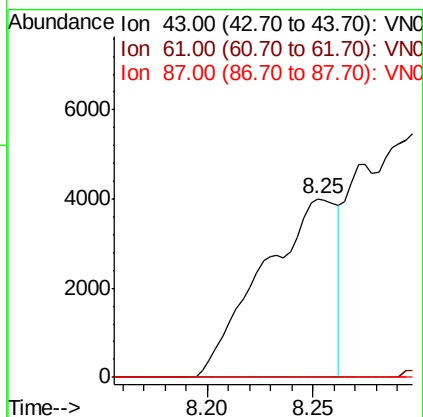
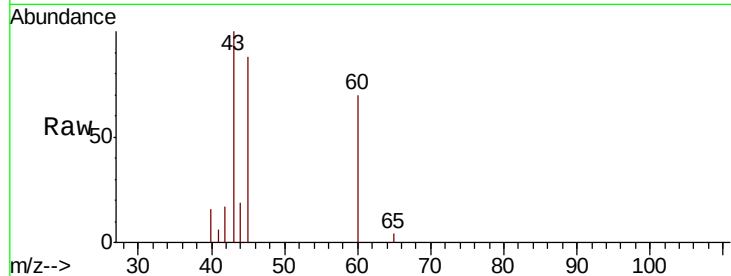




#43
Isopropyl Acetate
Concen: 1.517 ug/l
RT: 8.25 min Scan# 2015
Delta R.T. 0.09 min
Lab File: VN056787.D
Acq: 17 Jul 2019 11:28

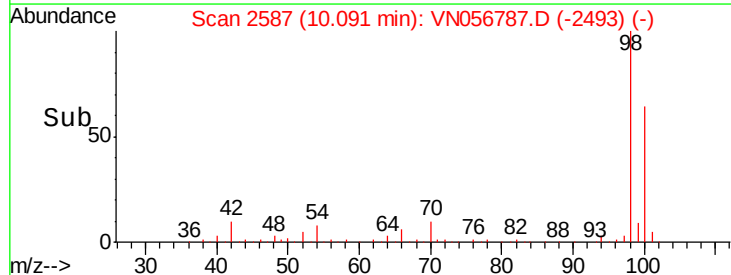
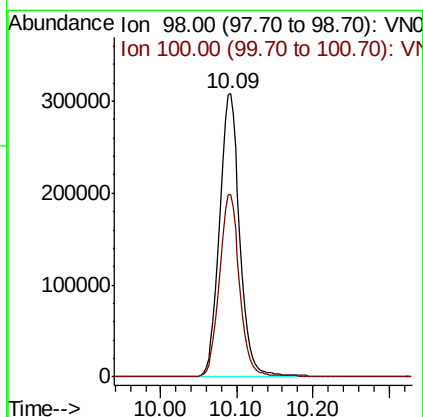
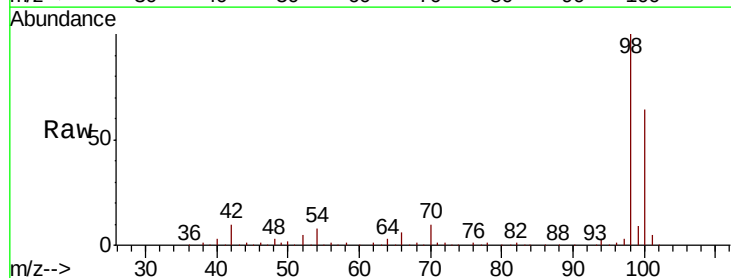
Instrument :
MSVOA_N
ClientSampleId :
MW-3

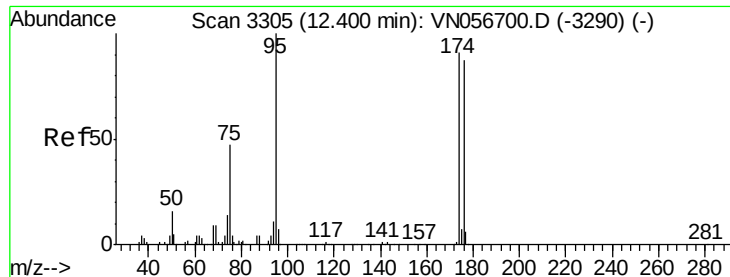
Tot Ion: 43 Resp: 9838
Ion Ratio Lower Upper
43 100
61 0.0 22.3 33.5#
87 0.0 11.1 16.7#



#50
Toluene-d8
Concen: 52.554 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN056787.D
Acq: 17 Jul 2019 11:28

Tgt Ion: 98 Resp: 571448
Ion Ratio Lower Upper
98 100
100 63.8 52.0 78.0

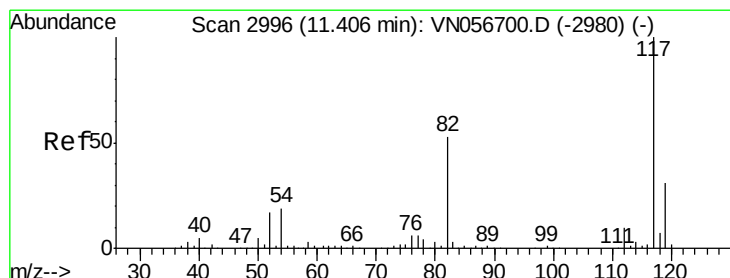
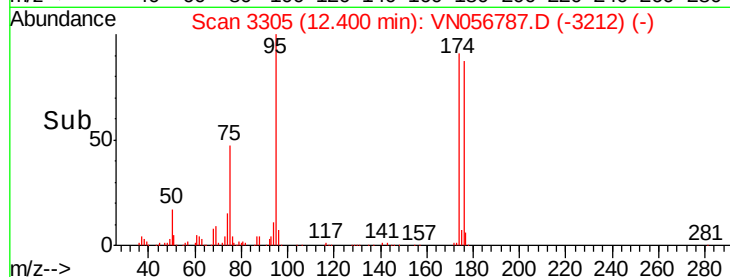
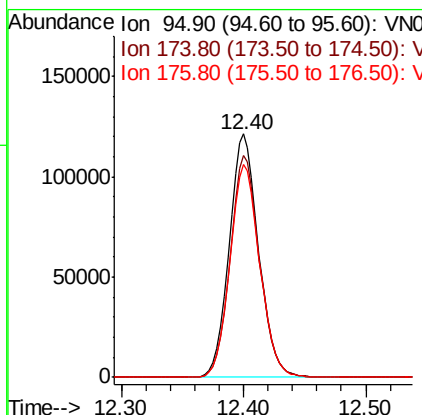
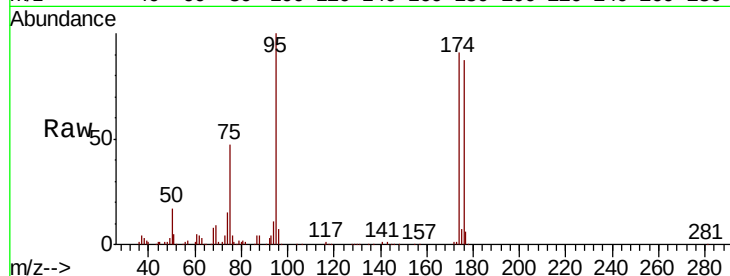




#62
4-Bromofluorobenzene
Concen: 55.490 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056787.D
Acq: 17 Jul 2019 11:28

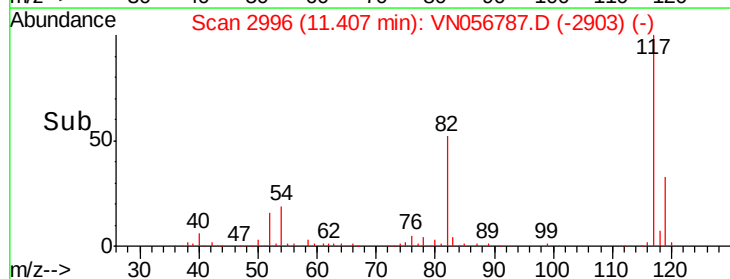
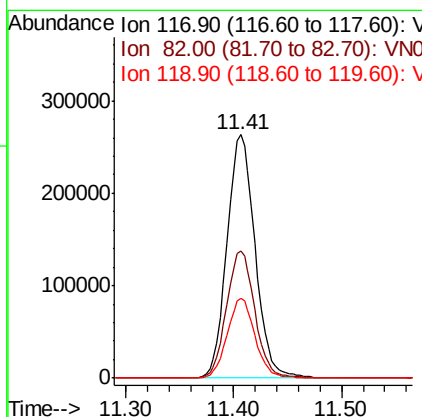
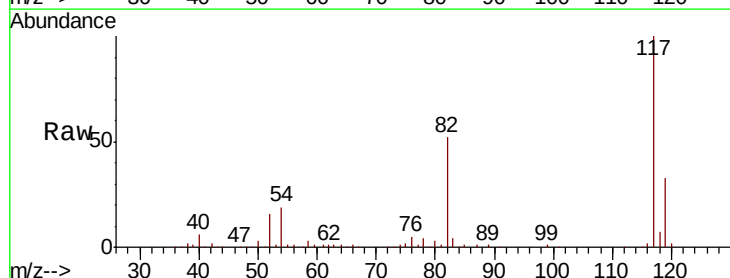
Instrument :
MSVOA_N
ClientSampleId :
MW-3

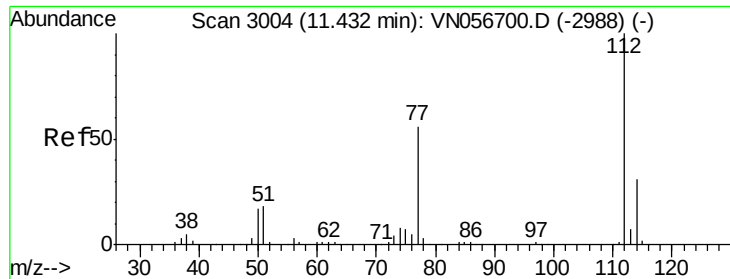
Tot Ion: 95 Resp: 203478
Ion Ratio Lower Upper
95 100
174 90.9 0.0 180.0
176 88.7 0.0 173.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056787.D
Acq: 17 Jul 2019 11:28

Tgt Ion: 117 Resp: 478232
Ion Ratio Lower Upper
117 100
82 52.3 42.2 63.2
119 32.8 25.2 37.8

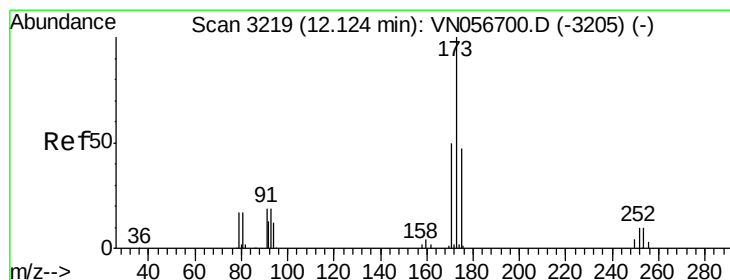
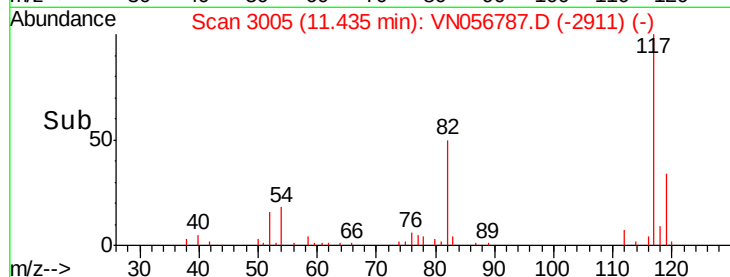
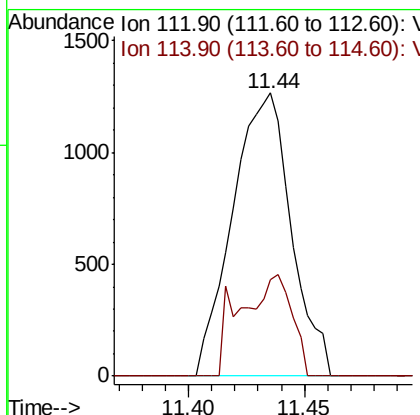
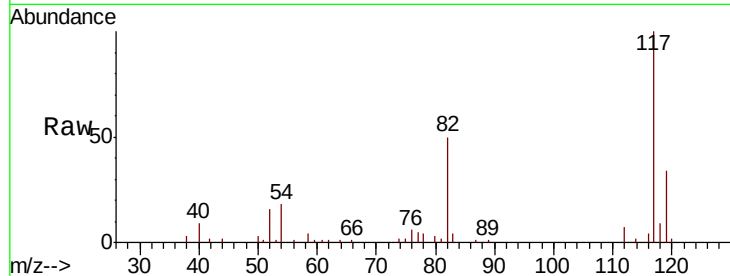




#65
Chlorobenzene
Concen: 0.227 ug/l
RT: 11.44 min Scan# 3005
Delta R.T. 0.00 min
Lab File: VN056787.D
Acq: 17 Jul 2019 11:28

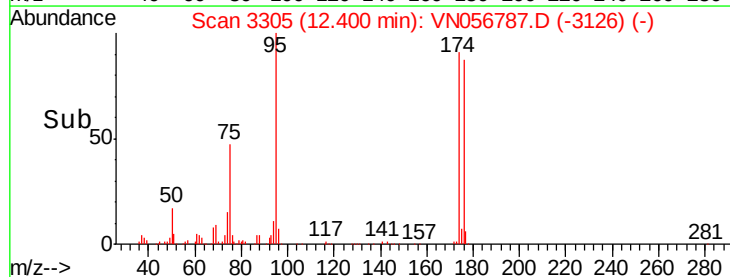
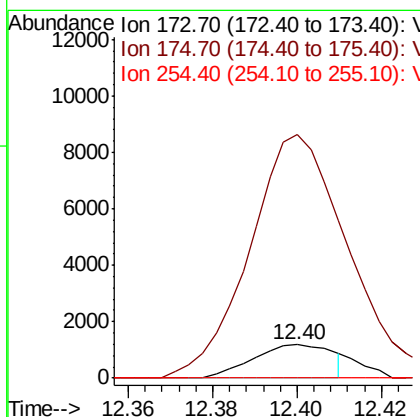
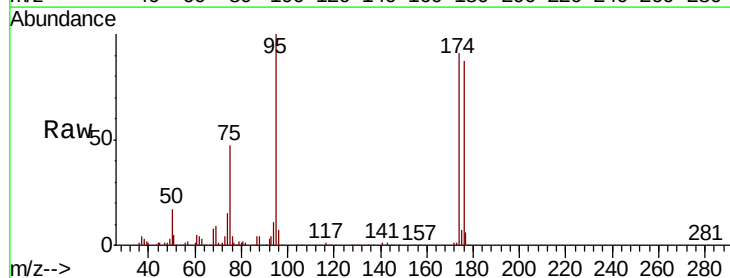
Instrument :
MSVOA_N
ClientSampled :
MW-3

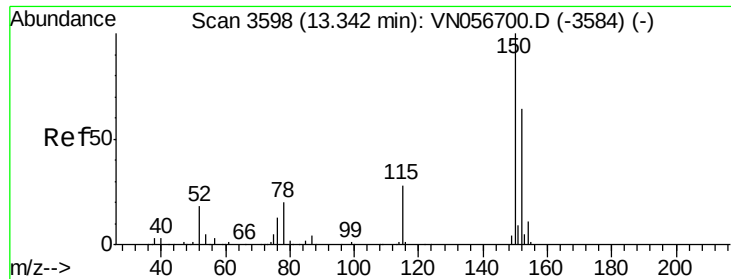
Tot Ion:112 Resp: 2224
Ion Ratio Lower Upper
112 100
114 34.3 25.2 37.8



#71
Bromoform
Concen: 0.568 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.28 min
Lab File: VN056787.D
Acq: 17 Jul 2019 11:28

Tgt Ion:173 Resp: 1557
Ion Ratio Lower Upper
173 100
175 738.3 23.8 71.4#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN056787.D

Acq: 17 Jul 2019 11:28

Instrument :

MSVOA_N

ClientSampleId :

MW-3

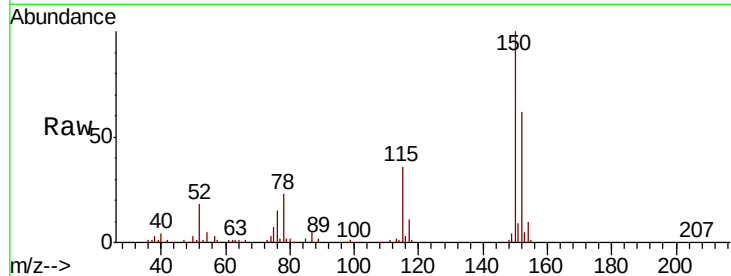
Tot Ion:152 Resp: 166056

Ion Ratio Lower Upper

152 100

115 56.7 28.2 84.7

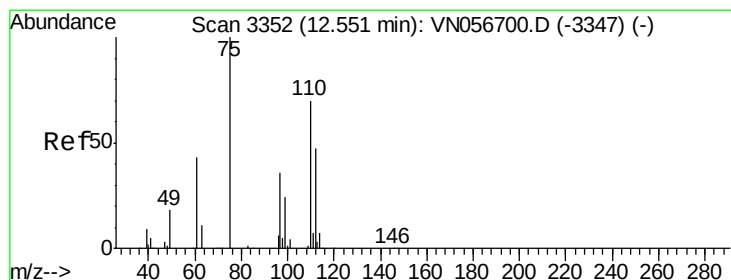
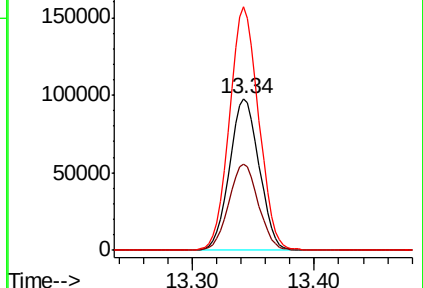
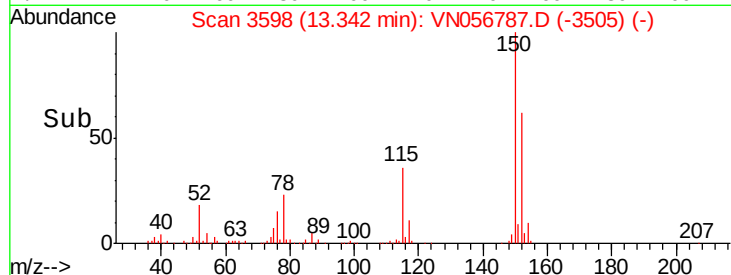
150 156.8 0.0 345.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 26.355 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056787.D

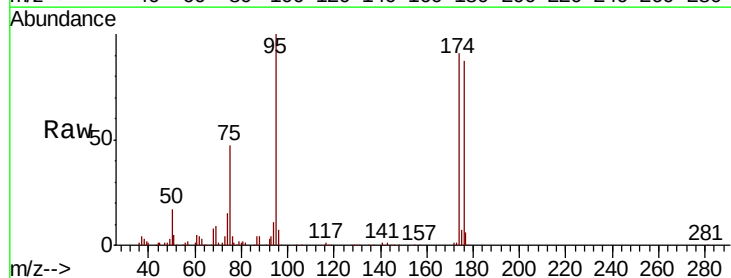
Acq: 17 Jul 2019 11:28

Tgt Ion: 75 Resp: 95720

Ion Ratio Lower Upper

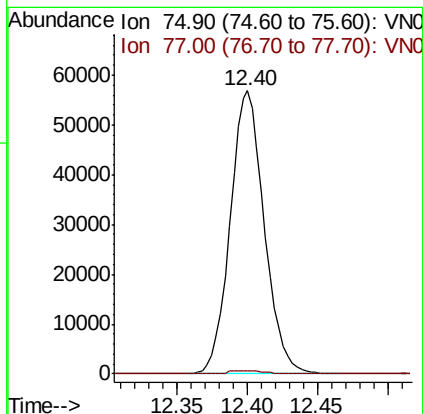
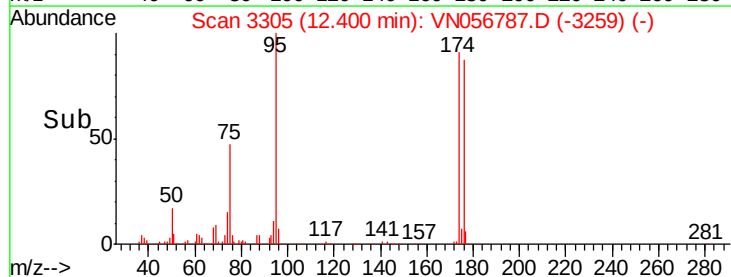
75 100

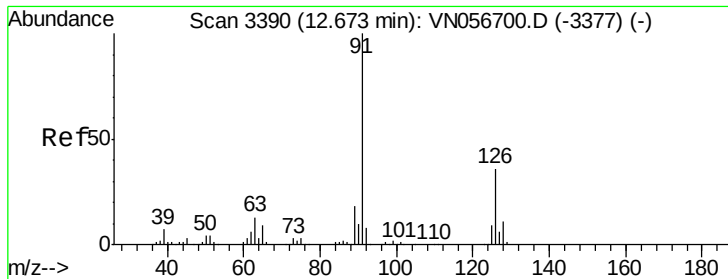
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.40 min Scan# 3304

Delta R.T. -0.28 min

Lab File: VN056787.D

Acq: 17 Jul 2019 11:28

Instrument :

MSVOA_N

ClientSampleId :

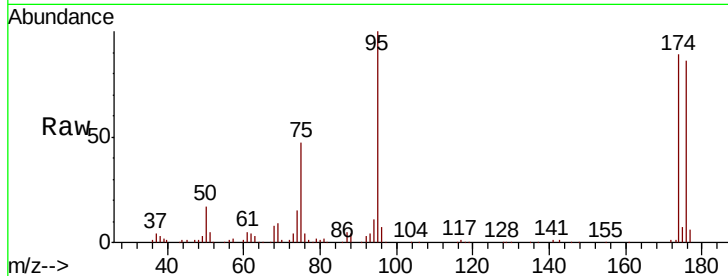
MW-3

Tot Ion: 91 Resp: 673

Ion Ratio Lower Upper

91 100

126 0.0 17.9 53.7#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

600

500

400

300

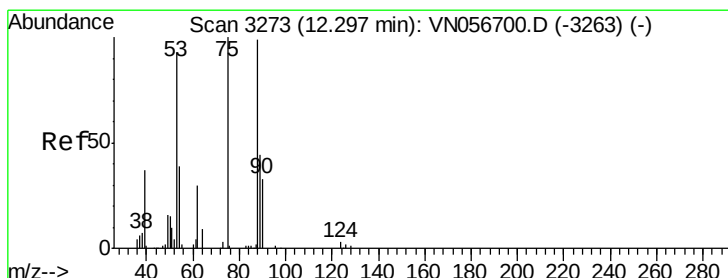
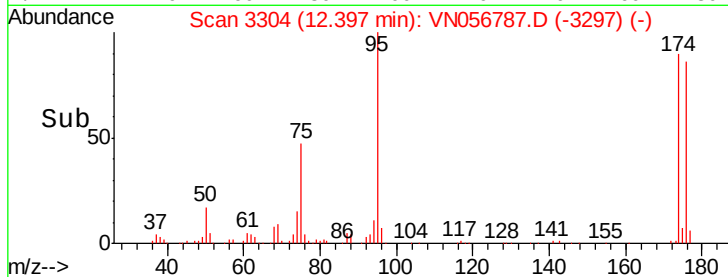
200

100

0

12.36 12.38 12.40 12.42

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 81.394 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056787.D

Acq: 17 Jul 2019 11:28

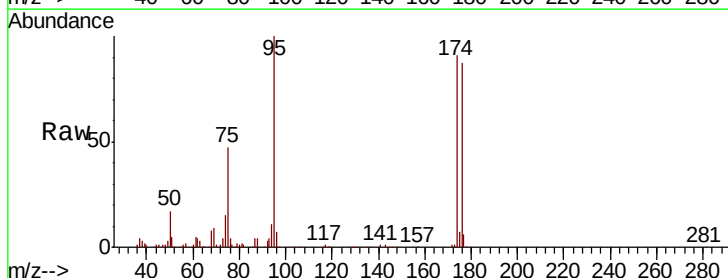
Tgt Ion: 75 Resp: 95720

Ion Ratio Lower Upper

75 100

53 0.0 73.7 110.5#

89 0.0 36.2 54.2#



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

60000

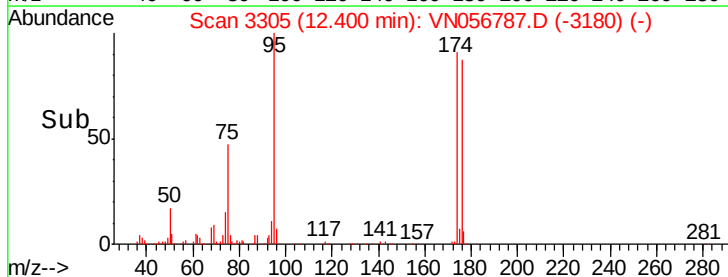
40000

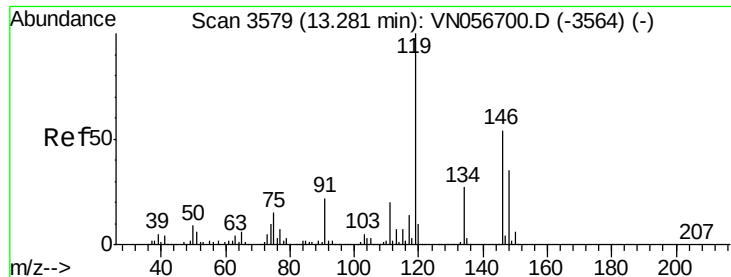
20000

0

12.35 12.40 12.45

Time-->





#87

1,3-Dichlorobenzene

Concen: 0.887 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN056787.D

Acq: 17 Jul 2019 11:28

Instrument :

MSVOA_N

ClientSampled :

MW-3

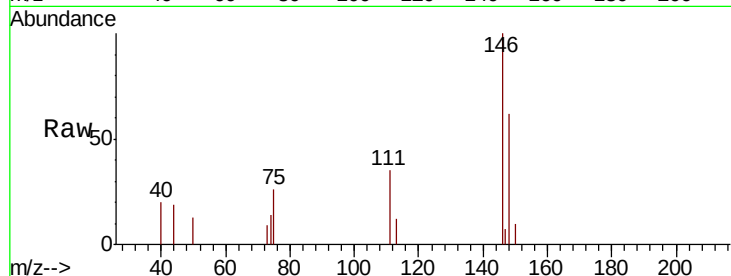
Tot Ion:146 Resp: 5090

Ion Ratio Lower Upper

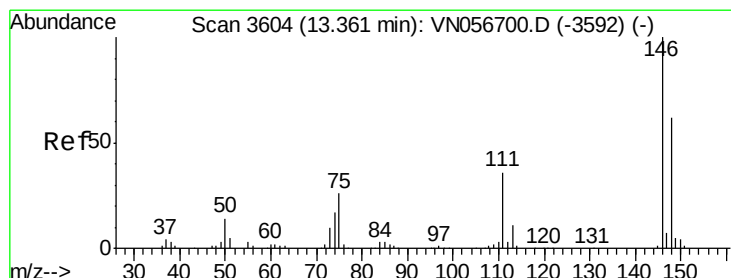
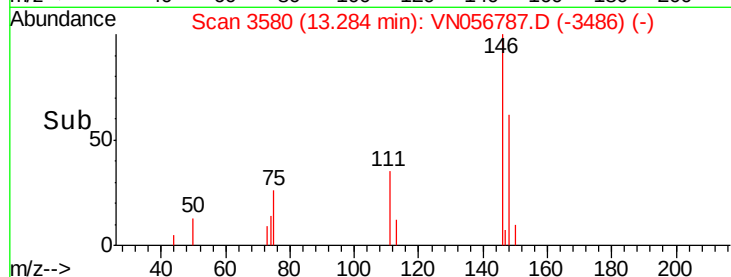
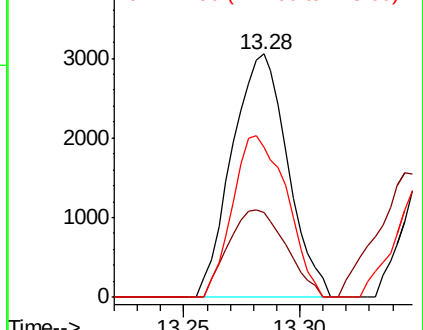
146 100

111 37.3 18.8 56.3

148 64.8 32.3 96.8



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 0.912 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.08 min

Lab File: VN056787.D

Acq: 17 Jul 2019 11:28

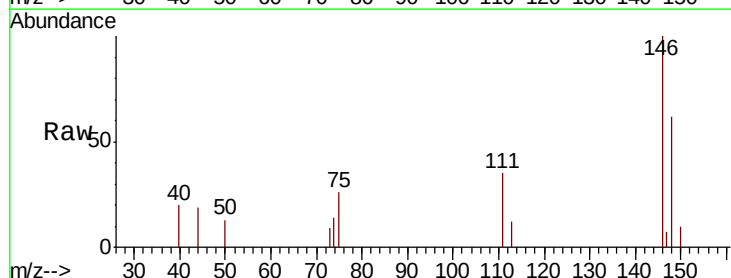
Tgt Ion:146 Resp: 5090

Ion Ratio Lower Upper

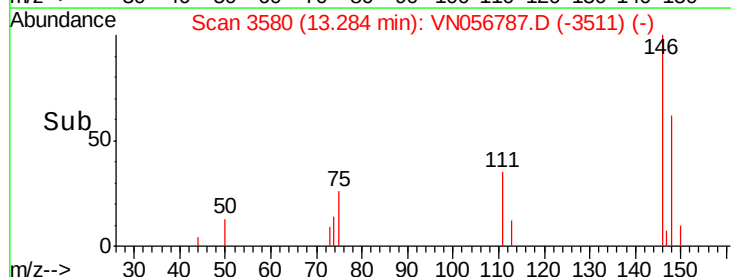
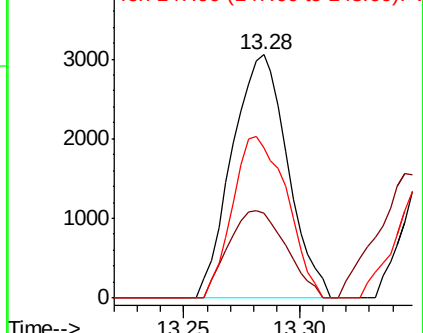
146 100

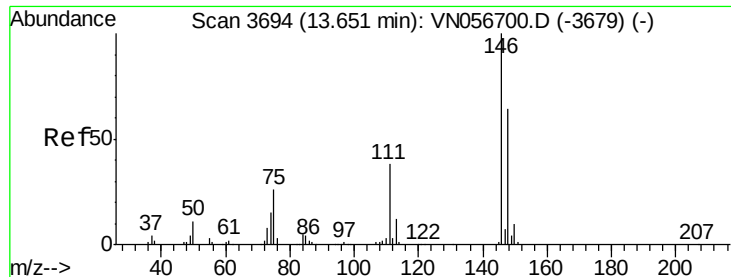
111 37.3 18.6 55.8

148 64.8 31.9 95.7



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V

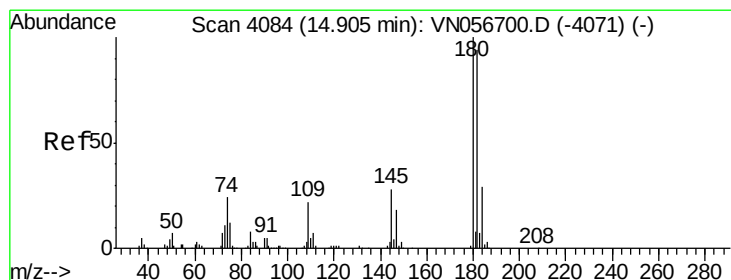
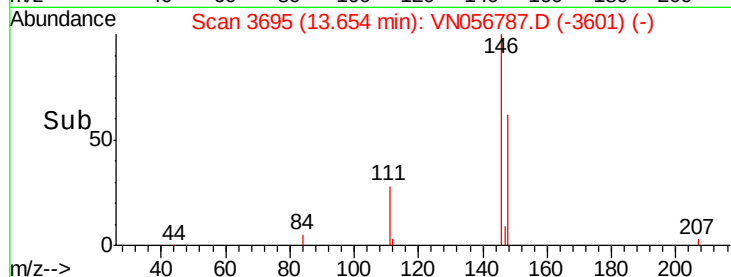
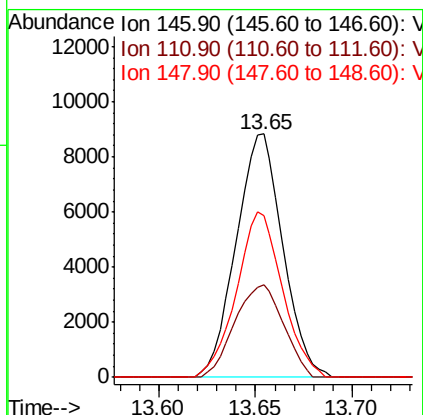
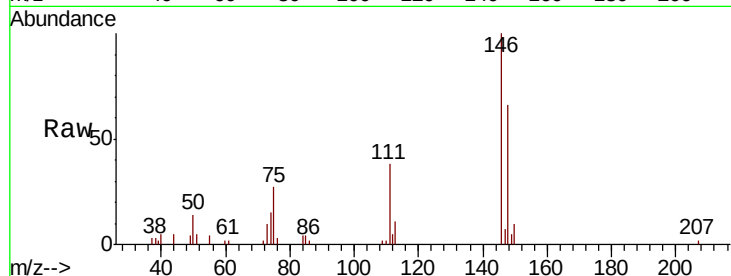




#91
 1,2-Dichlorobenzene
 Concen: 2.524 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN056787.D
 Acq: 17 Jul 2019 11:28

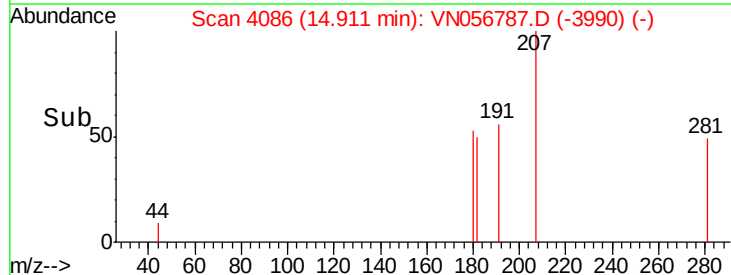
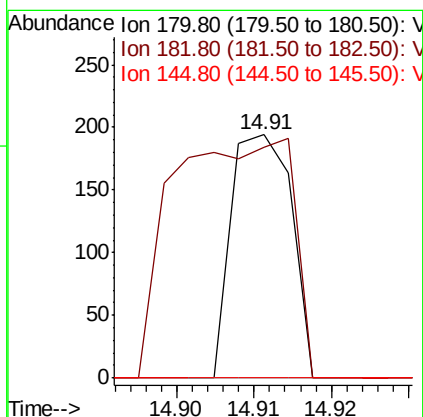
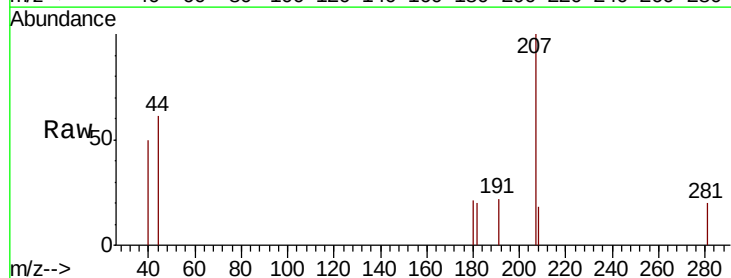
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-3

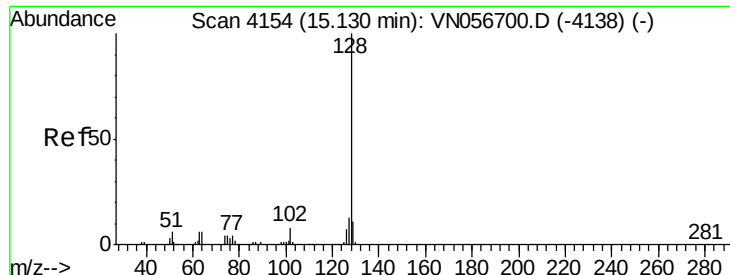
Tot Ion:146 Resp: 14813
 Ion Ratio Lower Upper
 146 100
 111 39.4 19.1 57.1
 148 66.8 31.7 95.1



#93
 1,2,4-Trichlorobenzene
 Concen: 3.721 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.01 min
 Lab File: VN056787.D
 Acq: 17 Jul 2019 11:28

Tgt Ion:180 Resp: 105
 Ion Ratio Lower Upper
 180 100
 182 195.2 47.2 141.6#
 145 0.0 14.2 42.8#





#95

Naphthalene

Concen: 4.556 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN056787.D

Acq: 17 Jul 2019 11:28

Instrument :

MSVOA_N

ClientSampleId :

MW-3

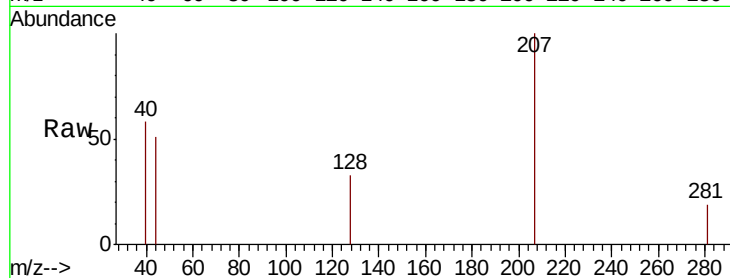
Tot Ion:128 Resp: 296

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

