

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061219\
 Data File : VN056255.D
 Acq On : 12 Jun 2019 17:49
 Operator : JC/SP
 Sample : K3327-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-3D

Quant Time: Jun 13 04:34:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	299510	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	448740	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	447563	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	141232	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	148595	49.97	ug/l	0.00
Spiked Amount			Recovery	=	99.94%	
35) Dibromofluoromethane	7.59	113	138929	50.46	ug/l	0.00
Spiked Amount			Recovery	=	100.92%	
50) Toluene-d8	10.09	98	546332	51.57	ug/l	0.00
Spiked Amount			Recovery	=	103.14%	
62) 4-Bromofluorobenzene	12.40	95	175044	48.59	ug/l	0.00
Spiked Amount			Recovery	=	97.18%	

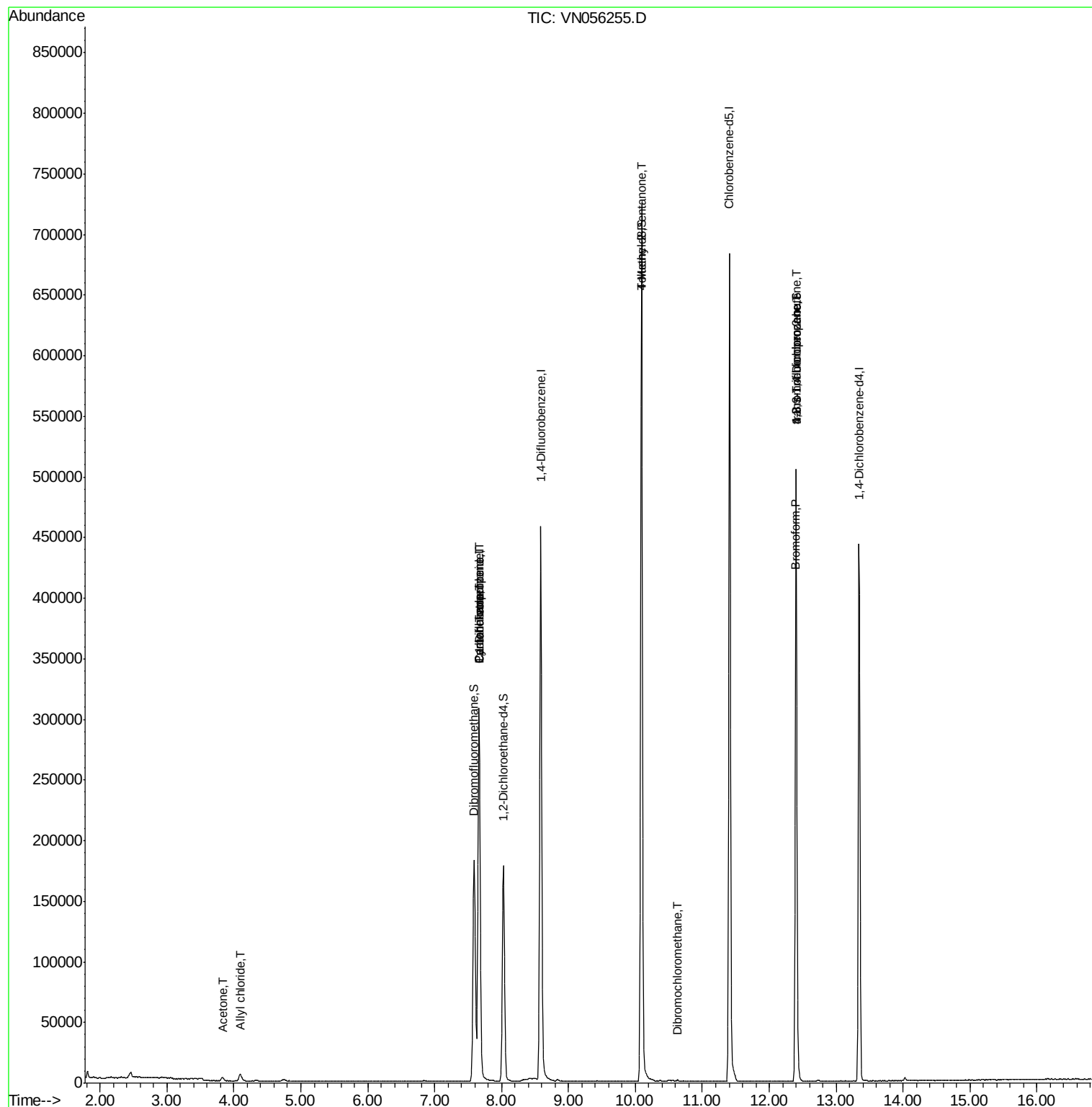
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
14) Allyl chloride	4.09	41	807	0.203	ug/l #	50
16) Acetone	3.82	43	5677	3.991	ug/l	98
18) Methyl Acetate	4.34	43	1533	Below Cal	#	59
31) Cyclohexane	7.66	56	4014	0.851	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	16324	4.231	ug/l #	48
38) Carbon Tetrachloride	7.67	117	24028	6.754	ug/l #	14
51) 4-Methyl-2-Pentanone	10.09	43	2136	0.614	ug/l #	1
60) Dibromochloromethane	10.63	129	136	2.492	ug/l #	11
71) Bromoform	12.38	173	44	2.758	ug/l #	29
73) Isopropylbenzene	12.40	105	108	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	80876	31.121	ug/l #	100
79) 2-Chlorotoluene	12.40	91	449	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	80876	103.640	ug/l #	15

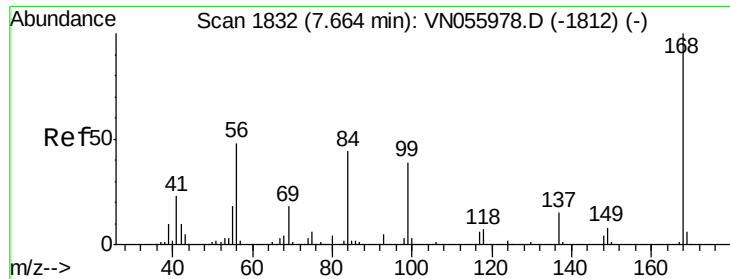
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN056255.D

Acq: 12 Jun 2019 17:49

Instrument :

MSVOA_N

ClientSampleId :

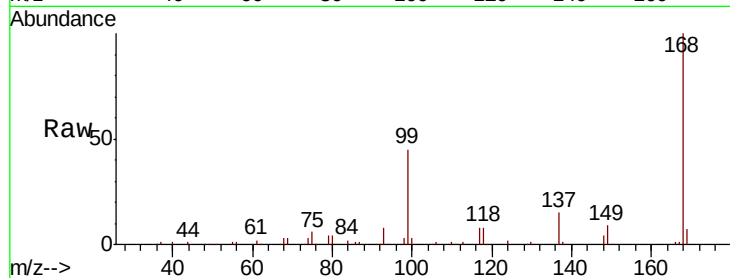
MW-3D

Tot Ion:168 Resp: 299510

Ion Ratio Lower Upper

168 100

99 44.9 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

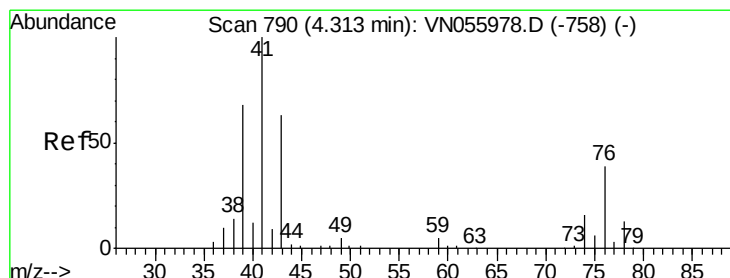
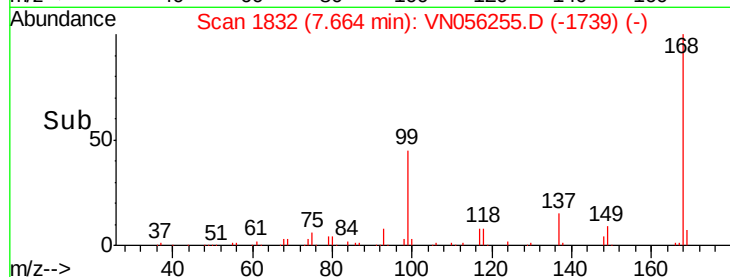
7.66

100000

50000

0

Time-->



#14

Allyl chloride

Concen: 0.203 ug/l

RT: 4.09 min Scan# 721

Delta R.T. -0.22 min

Lab File: VN056255.D

Acq: 12 Jun 2019 17:49

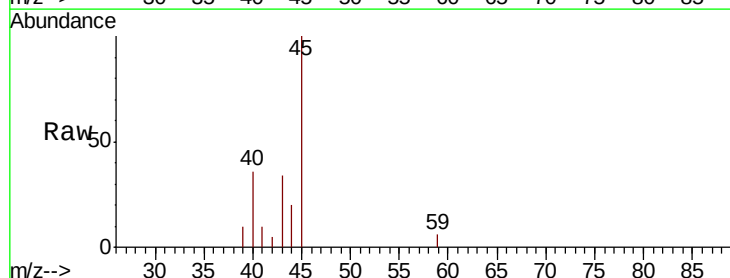
Tgt Ion: 41 Resp: 807

Ion Ratio Lower Upper

41 100

39 28.4 50.0 75.0#

76 0.0 28.2 42.2#



Abundance Ion 41.00 (40.70 to 41.70): VN

Ion 39.00 (38.70 to 39.70): VN

Ion 75.90 (75.60 to 76.60): VN

4.09

400

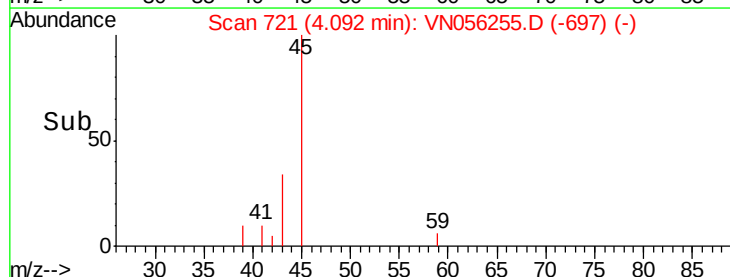
300

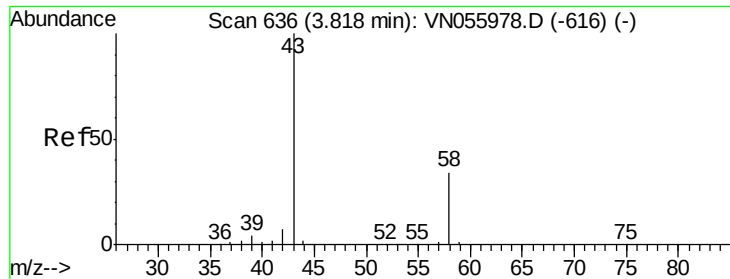
200

100

0

Time-->

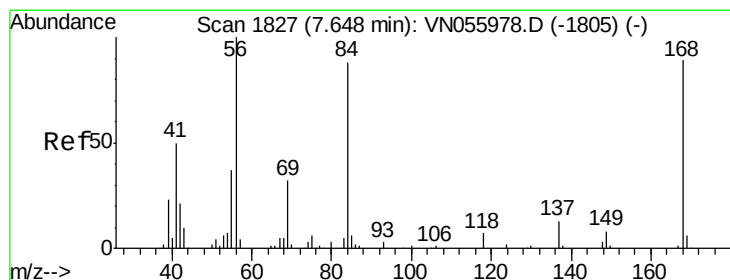
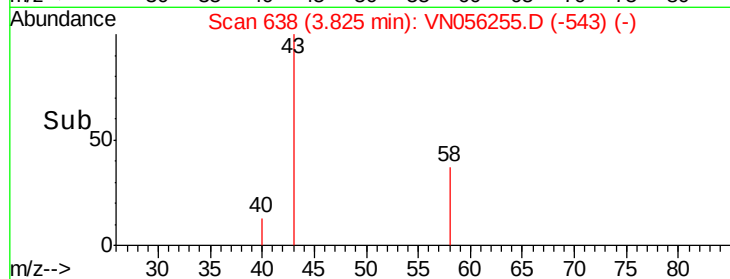
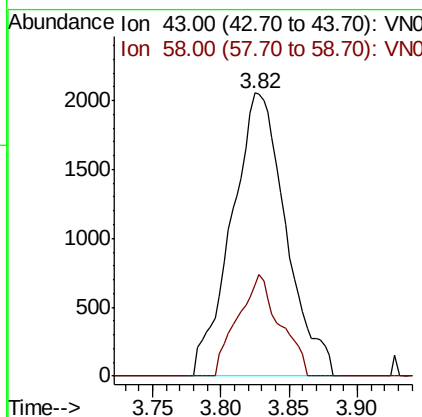
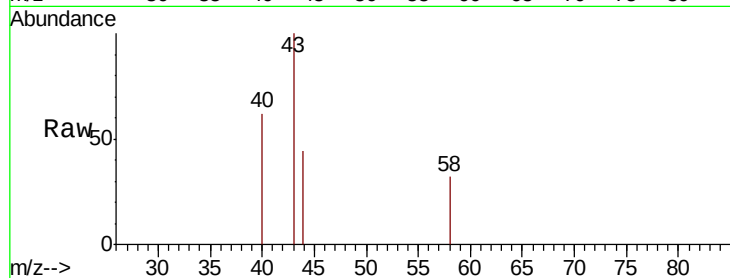




#16
Acetone
Concen: 3.991 ug/l
RT: 3.82 min Scan# 638
Delta R.T. 0.01 min
Lab File: VN056255.D
Acq: 12 Jun 2019 17:49

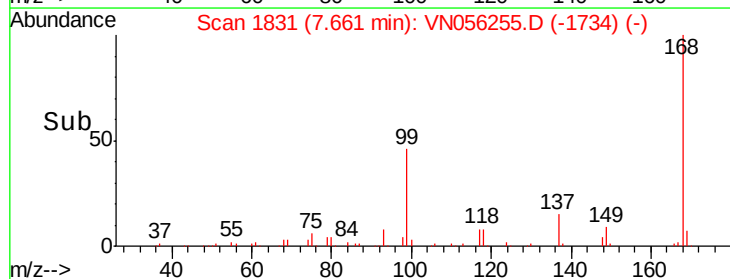
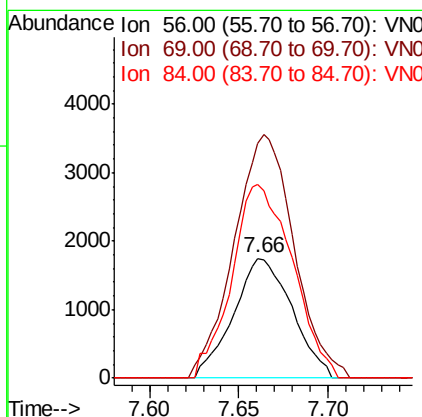
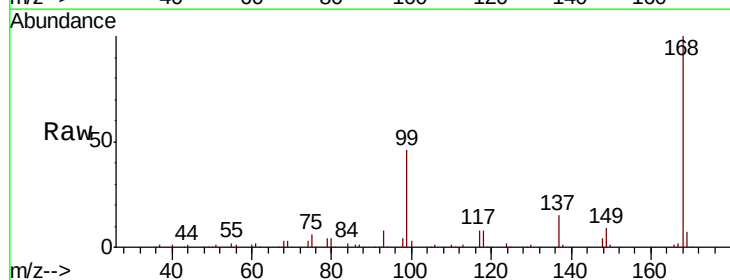
Instrument :
MSVOA_N
ClientSampleId :
MW-3D

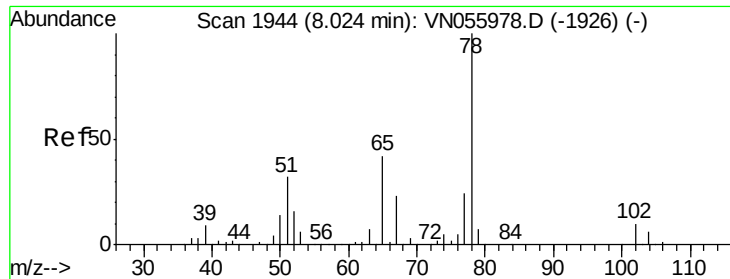
Tot Ion: 43 Resp: 5677
Ion Ratio Lower Upper
43 100
58 32.3 26.6 39.8



#31
Cyclohexane
Concen: 0.851 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN056255.D
Acq: 12 Jun 2019 17:49

Tgt Ion: 56 Resp: 4014
Ion Ratio Lower Upper
56 100
69 195.9 25.6 38.4#
84 162.3 67.4 101.0#

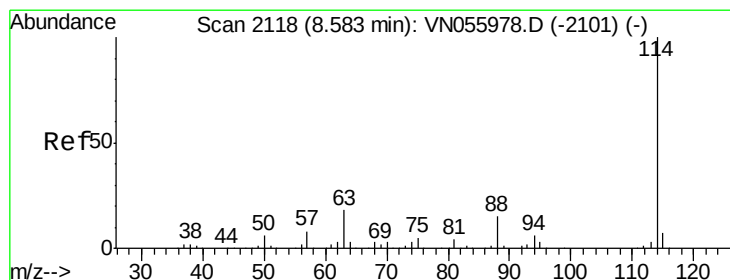
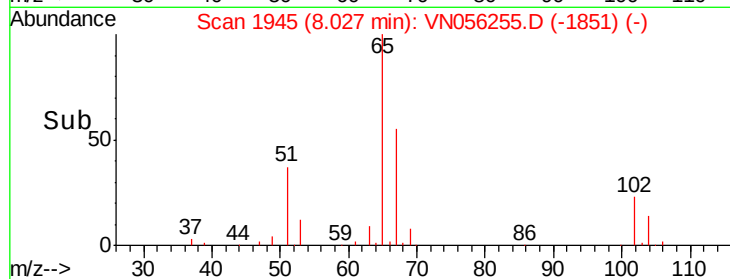
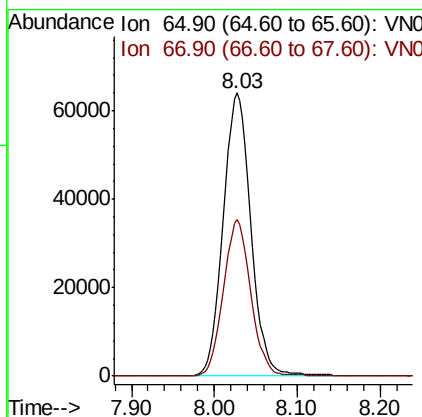
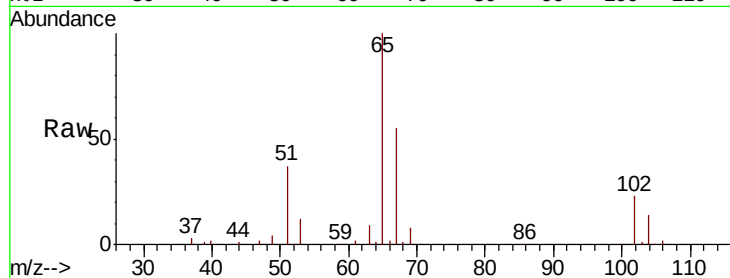




#33
 1,2-Dichloroethane-d4
 Concen: 49.967 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056255.D
 Acq: 12 Jun 2019 17:49

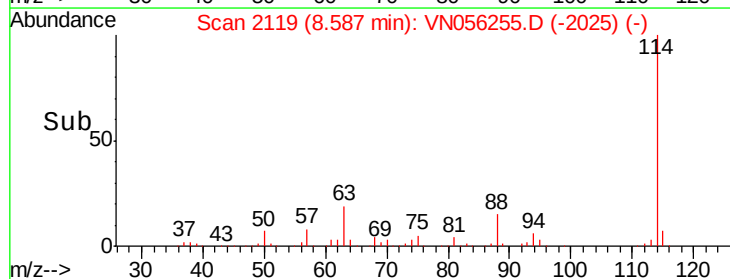
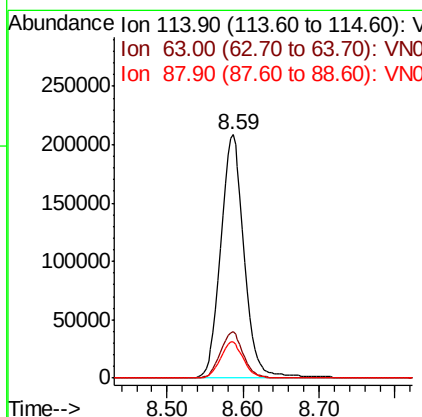
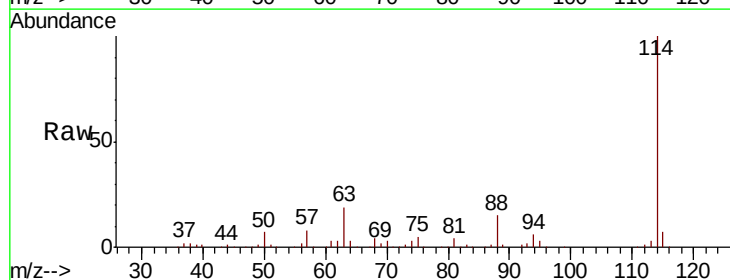
Instrument :
 MSVOA_N
 ClientSampled :
 MW-3D

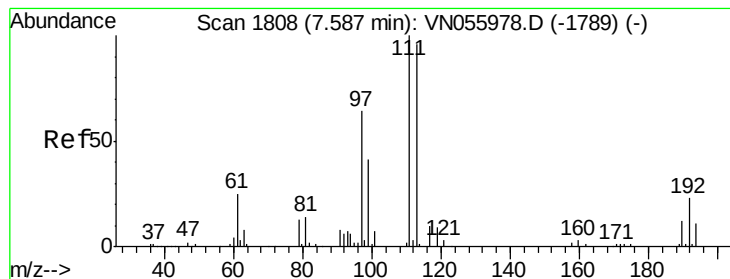
Tot Ion: 65 Resp: 148595
 Ion Ratio Lower Upper
 65 100
 67 54.7 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056255.D
 Acq: 12 Jun 2019 17:49

Tgt Ion: 114 Resp: 448740
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 39.2
 88 15.0 0.0 31.0





#35

Dibromofluoromethane

Concen: 50.462 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN056255.D

Acq: 12 Jun 2019 17:49

Instrument :

MSVOA_N

ClientSampled :

MW-3D

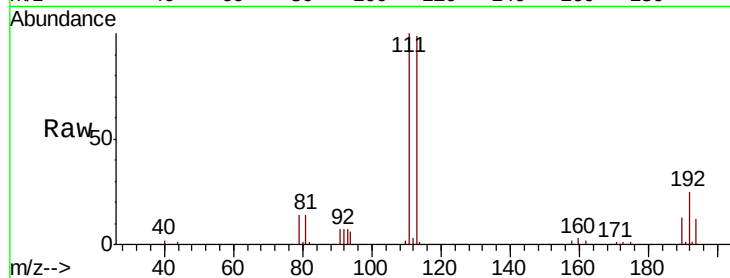
Tot Ion:113 Resp: 138929

Ion Ratio Lower Upper

113 100

111 102.0 81.9 122.9

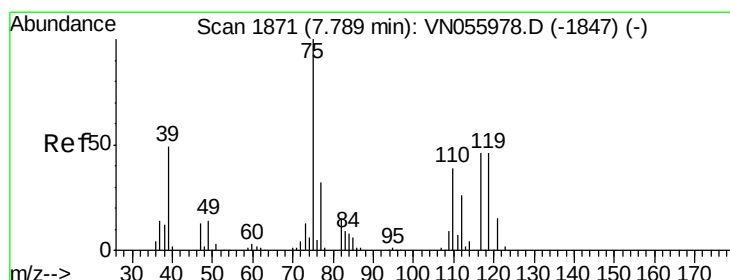
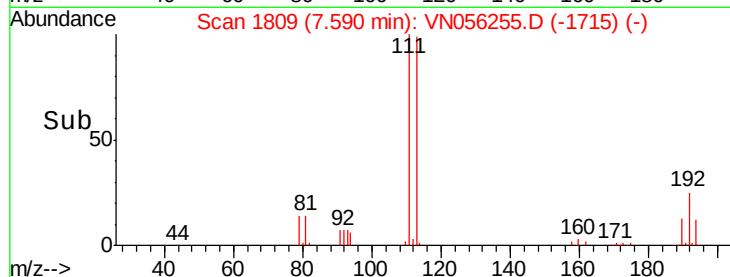
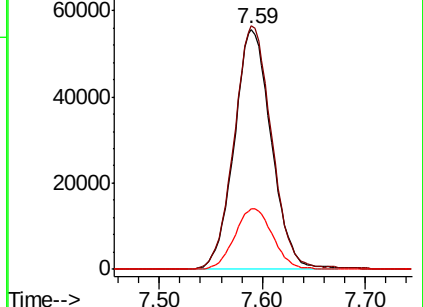
192 26.0 19.5 29.3



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: 4.231 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN056255.D

Acq: 12 Jun 2019 17:49

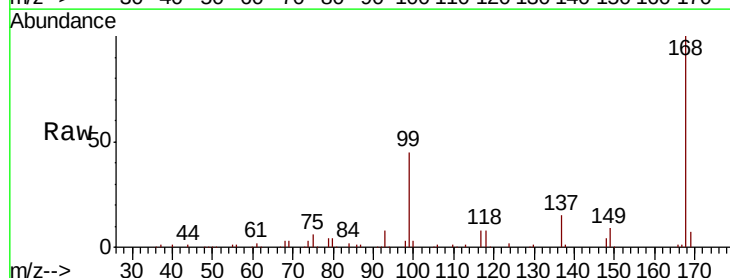
Tgt Ion: 75 Resp: 16324

Ion Ratio Lower Upper

75 100

110 8.9 19.0 57.0#

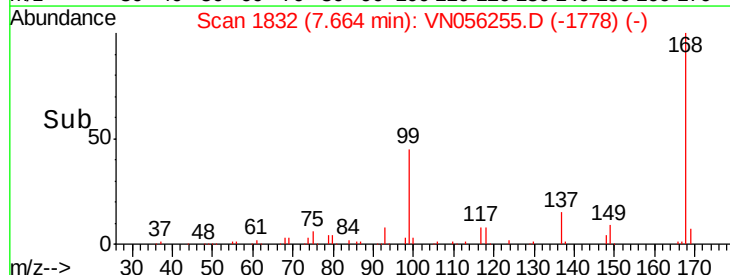
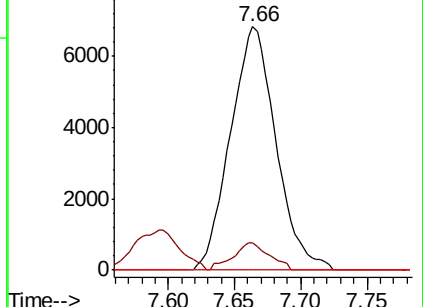
77 0.0 25.1 37.7#

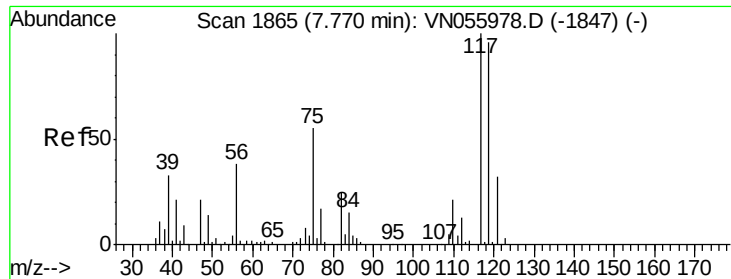


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VNO

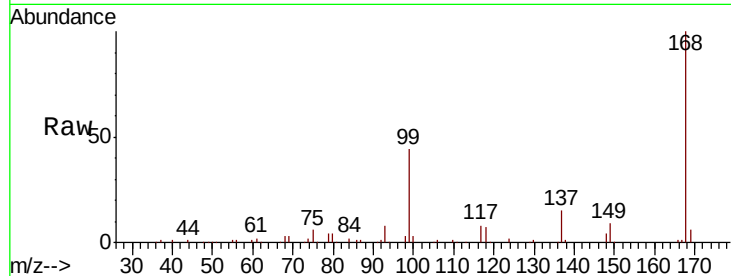




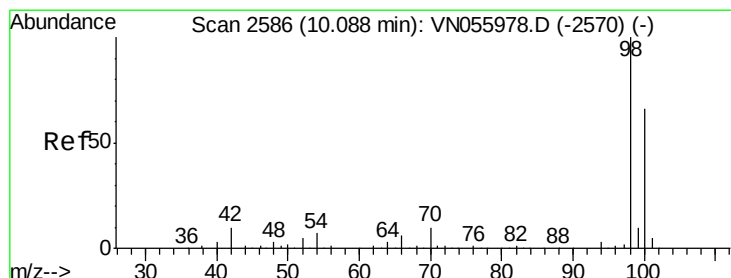
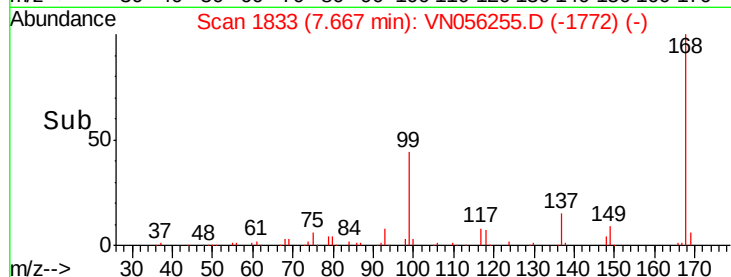
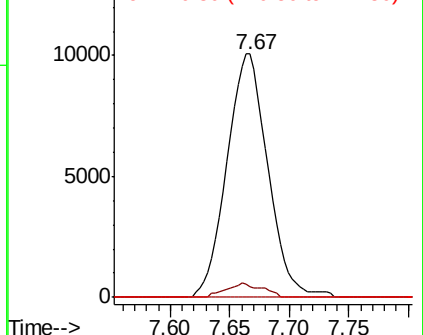
#38
Carbon Tetrachloride
Concen: 6.754 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.10 min
Lab File: VN056255.D
Acq: 12 Jun 2019 17:49

Instrument :
MSVOA_N
ClientSampled :
MW-3D

Tot Ion:117 Resp: 24028
Ion Ratio Lower Upper
117 100
119 4.5 79.0 118.6#
121 0.0 24.7 37.1#

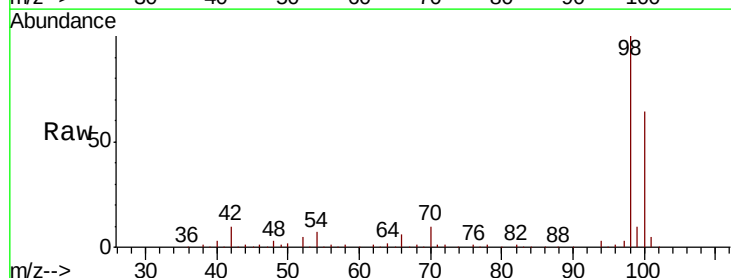


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

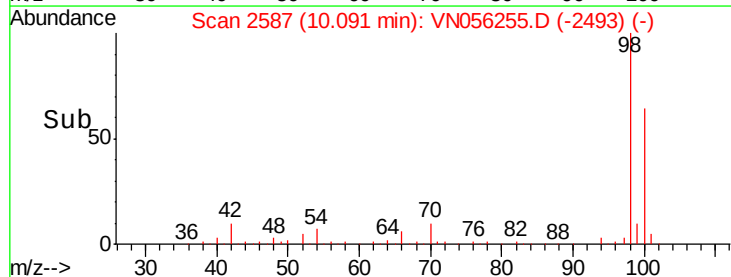
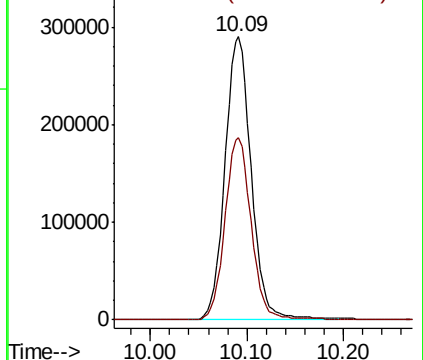


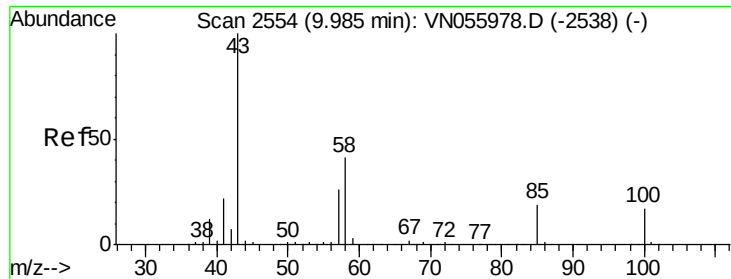
#50
Toluene-d8
Concen: 51.569 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN056255.D
Acq: 12 Jun 2019 17:49

Tgt Ion: 98 Resp: 546332
Ion Ratio Lower Upper
98 100
100 64.5 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN
Ion 100.00 (99.70 to 100.70): VN





#51

4-Methyl-2-Pentanone

Concen: 0.614 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.11 min

Lab File: VN056255.D

Acq: 12 Jun 2019 17:49

Instrument :

MSVOA_N

ClientSampled :

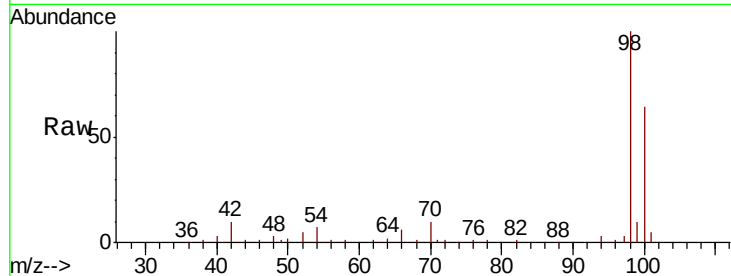
MW-3D

Tot Ion: 43 Resp: 2136

Ion Ratio Lower Upper

43 100

58 183.4 32.1 48.1#



Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-2538) (-)

Ion 58.00 (57.70 to 58.70): VN055978.D (-2538) (-)

2500

2000

1500

1000

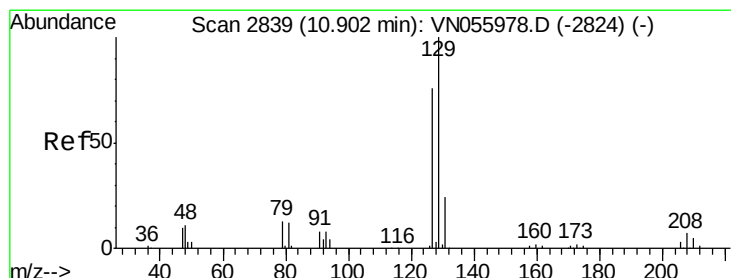
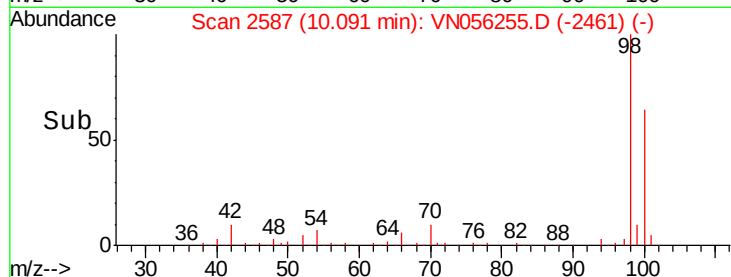
500

0

10.05

10.10

Time-->



#60

Dibromochloromethane

Concen: 2.492 ug/l

RT: 10.63 min Scan# 2756

Delta R.T. -0.27 min

Lab File: VN056255.D

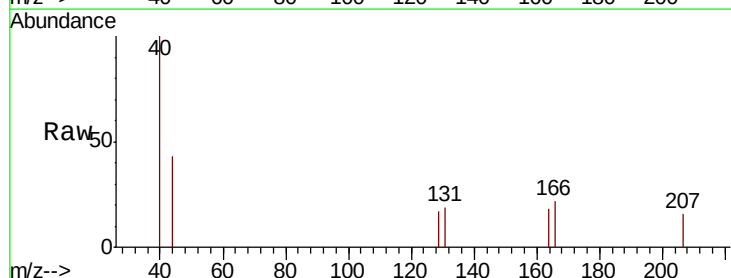
Acq: 12 Jun 2019 17:49

Tgt Ion: 129 Resp: 136

Ion Ratio Lower Upper

129 100

127 0.0 38.1 114.3#



Abundance Ion 128.80 (128.50 to 129.50): VN055978.D (-2824) (-)

Ion 126.80 (126.50 to 127.50): VN055978.D (-2824) (-)

200

150

100

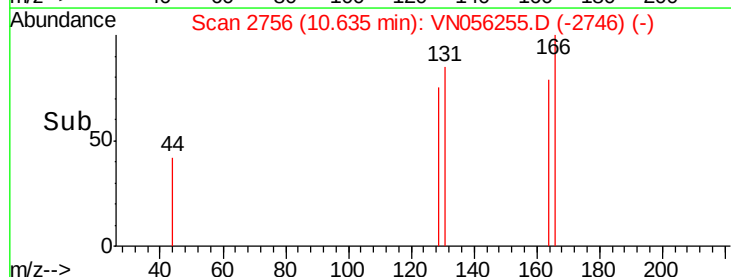
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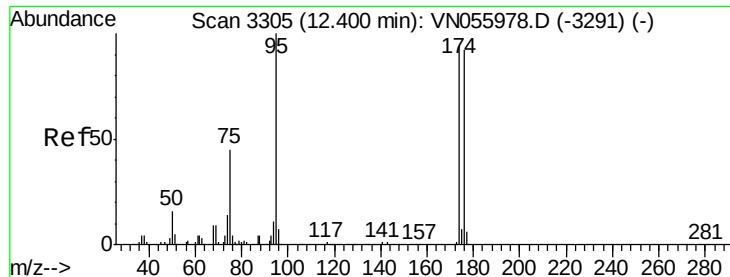
0

10.62

10.64

Time-->

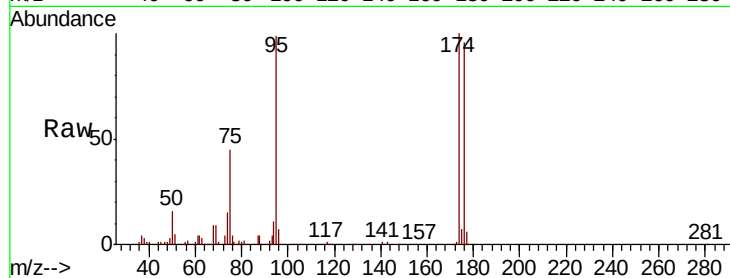




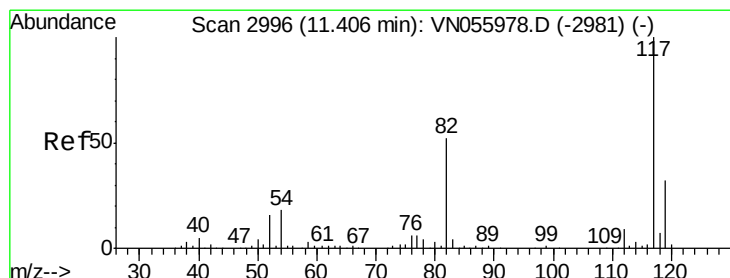
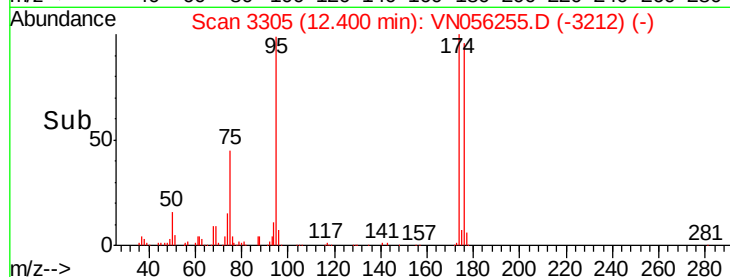
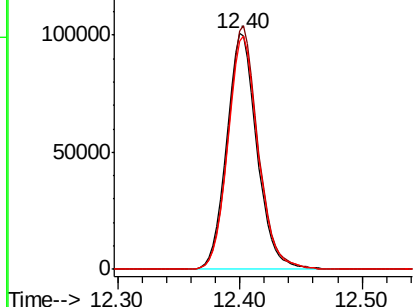
#62
4-Bromofluorobenzene
Concen: 48.585 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN056255.D
Acq: 12 Jun 2019 17:49

Instrument :
MSVOA_N
ClientSampled :
MW-3D

Tot Ion: 95 Resp: 175044
Ion Ratio Lower Upper
95 100
174 102.5 0.0 191.0
176 98.6 0.0 185.2

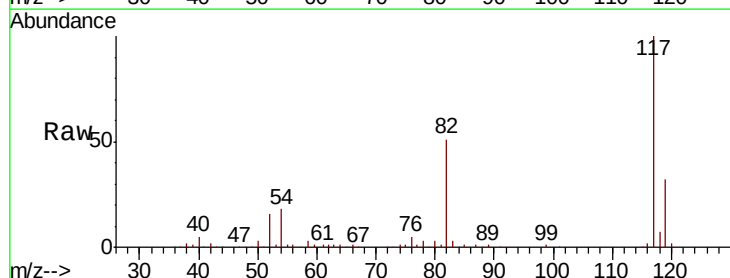


Abundance Ion 94.90 (94.60 to 95.60): VN055978.D (-3291) (-)
Ion 173.80 (173.50 to 174.50): VN055978.D (-3291) (-)
Ion 175.80 (175.50 to 176.50): VN055978.D (-3291) (-)

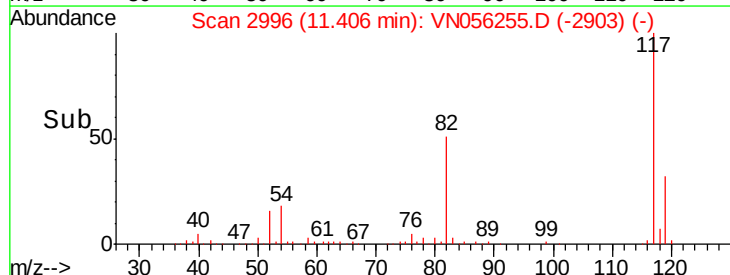
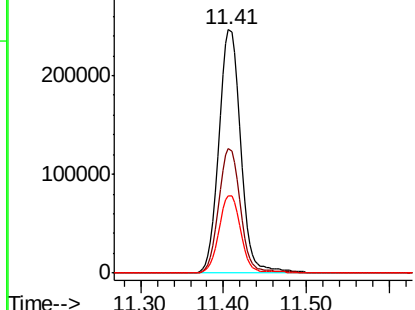


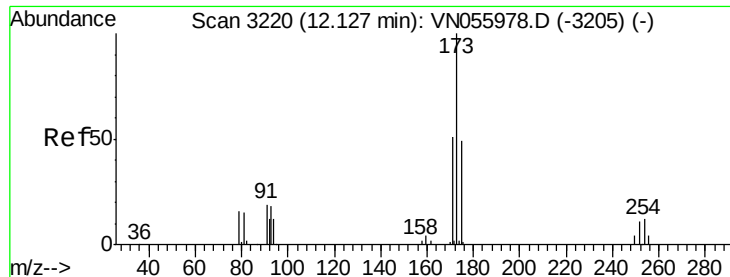
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056255.D
Acq: 12 Jun 2019 17:49

Tgt Ion: 117 Resp: 447563
Ion Ratio Lower Upper
117 100
82 51.2 41.8 62.8
119 31.9 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): VN055978.D (-2981) (-)
Ion 82.00 (81.70 to 82.70): VN055978.D (-2981) (-)
Ion 118.90 (118.60 to 119.60): VN055978.D (-2981) (-)





#71

Bromoform

Concen: 2.758 ug/l

RT: 12.38 min Scan# 3300

Delta R.T. 0.26 min

Lab File: VN056255.D

Acq: 12 Jun 2019 17:49

Instrument :

MSVOA_N

ClientSampled :

MW-3D

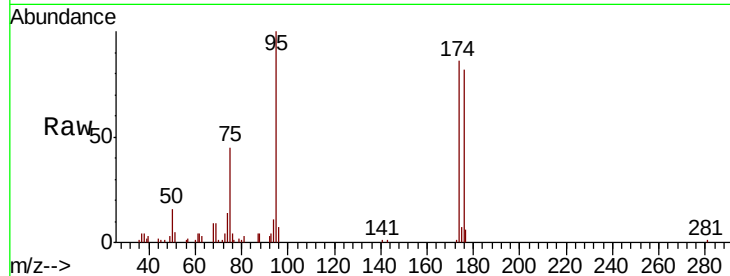
Tot Ion:173 Resp: 44

Ion Ratio Lower Upper

173 100

175 0.0 24.3 72.8#

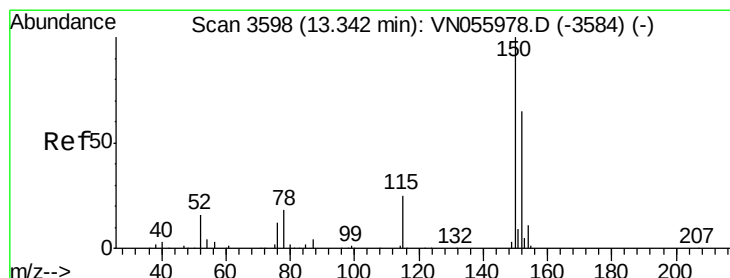
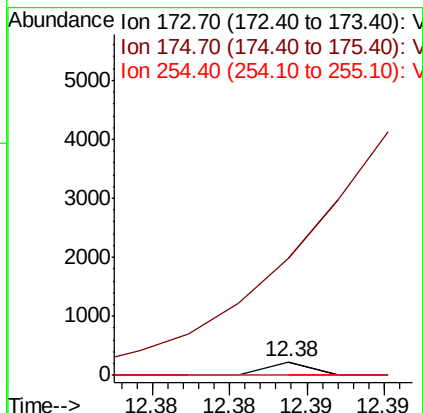
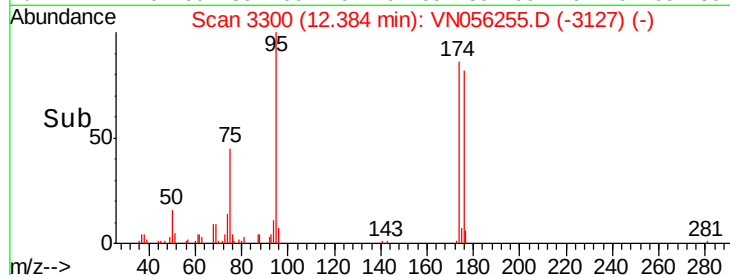
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN056255.D

Acq: 12 Jun 2019 17:49

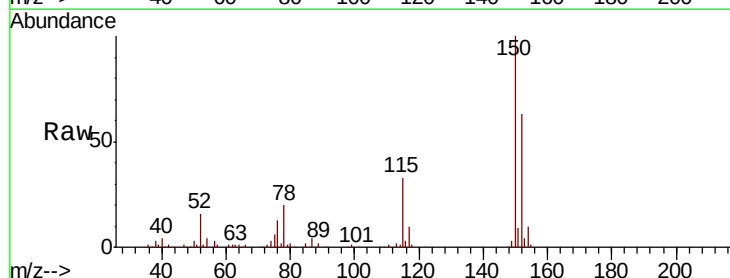
Tgt Ion:152 Resp: 141232

Ion Ratio Lower Upper

152 100

115 51.4 27.0 81.0

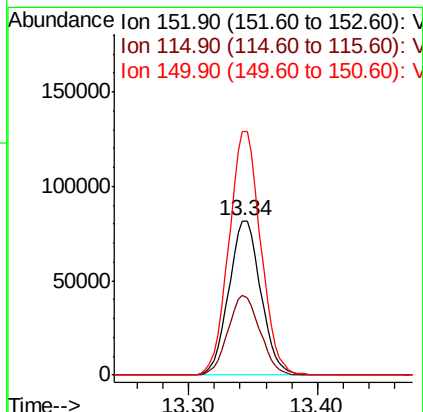
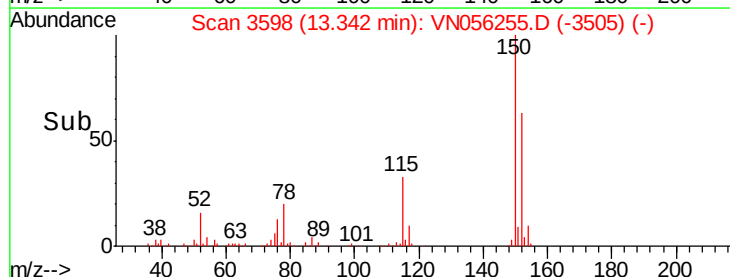
150 156.5 0.0 343.2

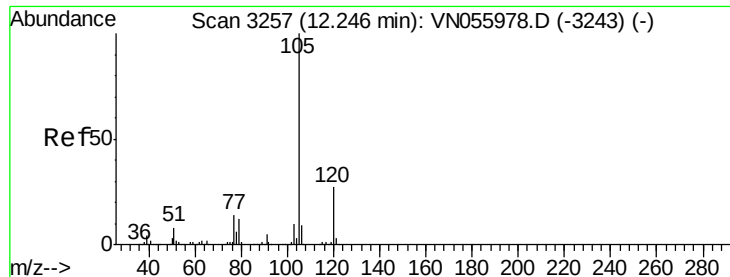


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. 0.16 min

Lab File: VN056255.D

Acq: 12 Jun 2019 17:49

Instrument :

MSVOA_N

ClientSampleId :

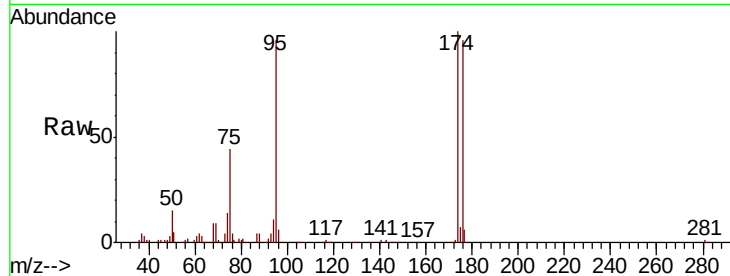
MW-3D

Tot Ion:105 Resp: 108

Ion Ratio Lower Upper

105 100

120 0.0 13.6 40.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.40

200

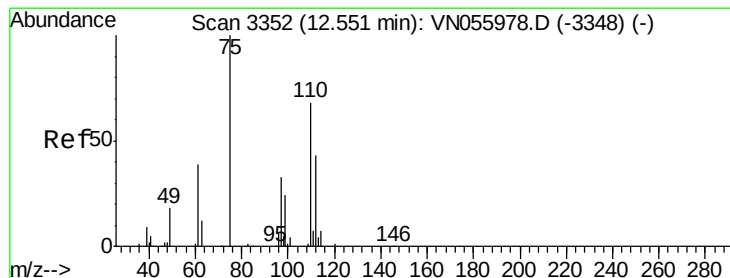
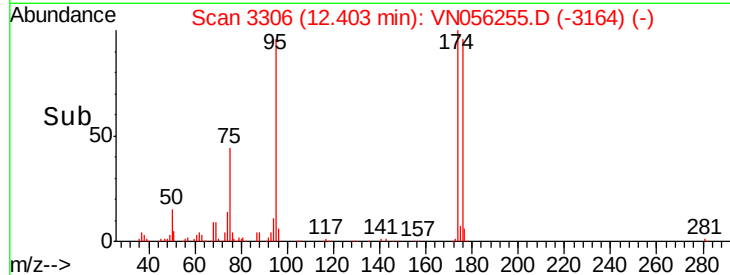
150

100

50

0

Time-->



#76

1,2,3-Trichloropropane

Concen: 31.121 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056255.D

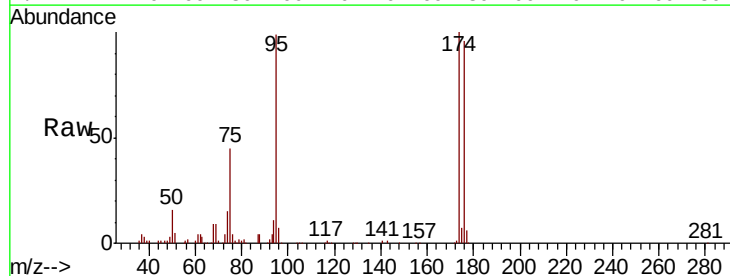
Acq: 12 Jun 2019 17:49

Tgt Ion: 75 Resp: 80876

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.40

50000

40000

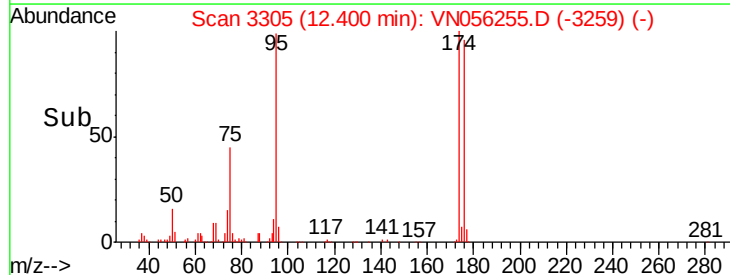
30000

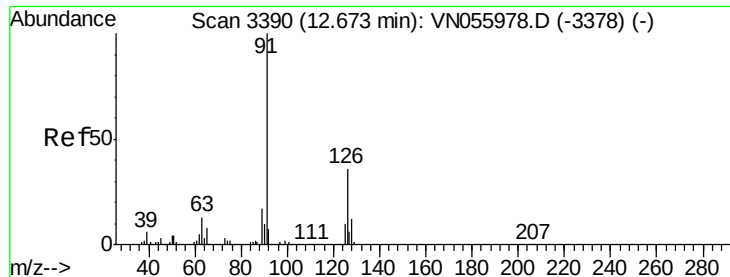
20000

10000

0

Time-->





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. -0.27 min

Lab File: VN056255.D

Acq: 12 Jun 2019 17:49

Instrument :

MSVOA_N

ClientSampleId :

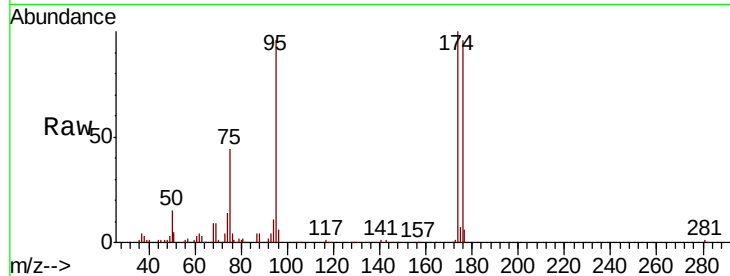
MW-3D

Tot Ion: 91 Resp: 449

Ion Ratio Lower Upper

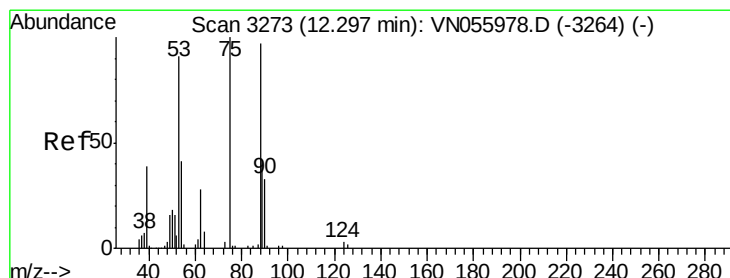
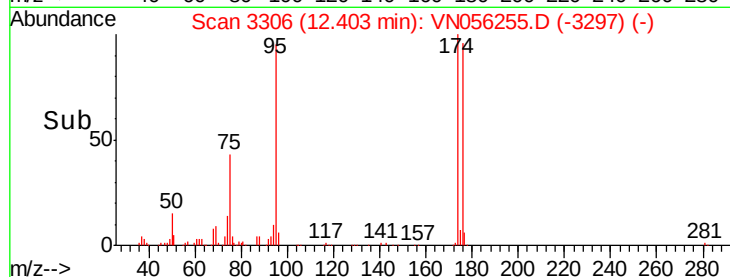
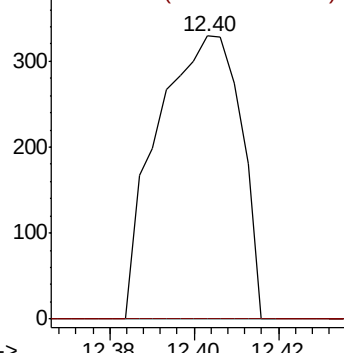
91 100

126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VNO

Ion 125.90 (125.60 to 126.60): V



#81

trans-1,4-Dichloro-2-butene

Concen: 103.640 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056255.D

Acq: 12 Jun 2019 17:49

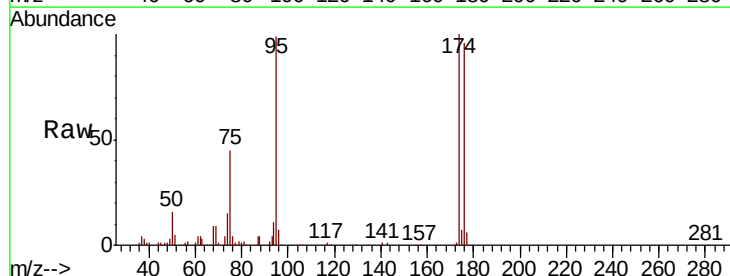
Tgt Ion: 75 Resp: 80876

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

