

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061319\
 Data File : VN056287.D
 Acq On : 13 Jun 2019 17:30
 Operator : JC/SP
 Sample : K3345-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 14 01:14:02 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	341425	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	562727	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	553233	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	163734	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	192437	56.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.54%	
35) Dibromofluoromethane	7.59	113	174942	50.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.34%	
50) Toluene-d8	10.09	98	701309	52.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.58%	
62) 4-Bromofluorobenzene	12.40	95	221922	49.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.24%	

Target Compounds

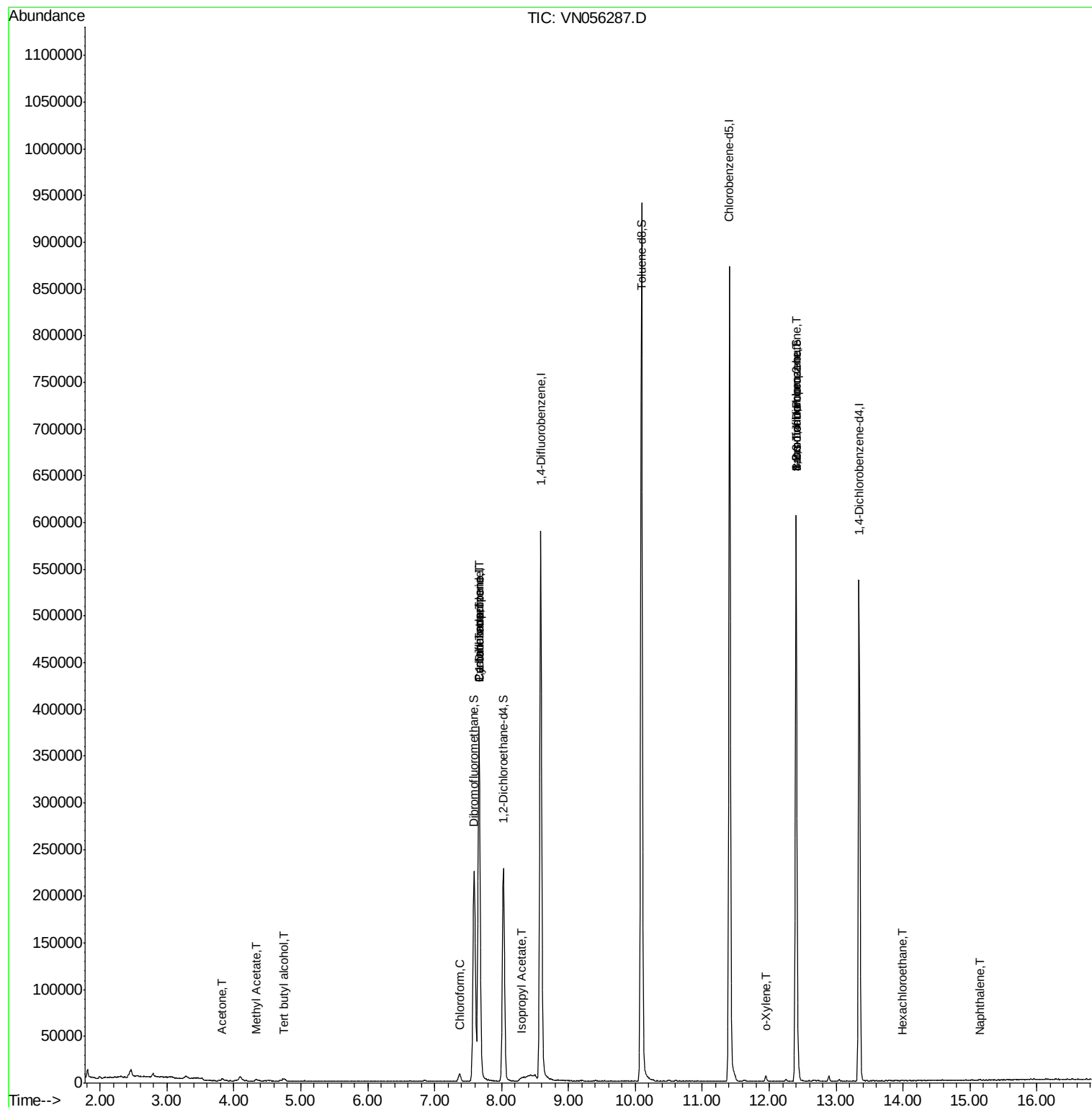
					Qvalue
11) Tert butyl alcohol	4.74	59	2281	3.866 ug/l #	74
16) Acetone	3.82	43	4777	2.946 ug/l	90
18) Methyl Acetate	4.33	43	3734	0.601 ug/l #	68
30) Chloroform	7.37	83	9316	1.716 ug/l	89
31) Cyclohexane	7.66	56	5389	1.002 ug/l #	1
36) 1,1-Dichloropropene	7.67	75	22083	4.564 ug/l #	48
38) Carbon Tetrachloride	7.67	117	29535	6.621 ug/l #	15
43) Isopropyl Acetate	8.28	43	1934	0.277 ug/l #	53
69) o-Xylene	11.95	106	2011	0.280 ug/l	99
71) Bromoform	12.40	173	1451	3.172 ug/l #	1
73) Isopropylbenzene	12.25	105	1823	Below Cal	80
76) 1,2,3-Trichloropropane	12.40	75	103104	34.222 ug/l #	100
79) 2-Chlorotoluene	12.59	91	638	Below Cal #	39
81) trans-1,4-Dichloro-2-buten	12.40	75	103104	113.967 ug/l #	15
90) Hexachloroethane	13.99	117	720	0.435 ug/l #	1
95) Naphthalene	15.14	128	1025	3.972 ug/l #	69

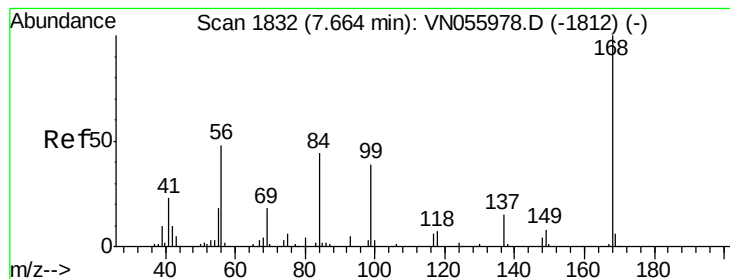
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN056287.D

Acq: 13 Jun 2019 17:30

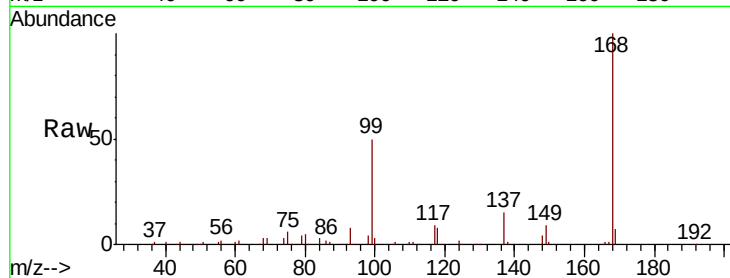
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 341425

Ion Ratio Lower Upper

168 100

99 49.9 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

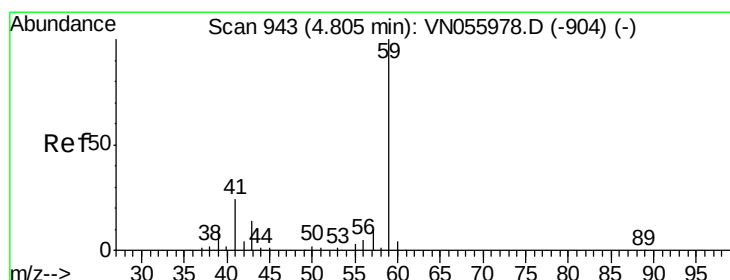
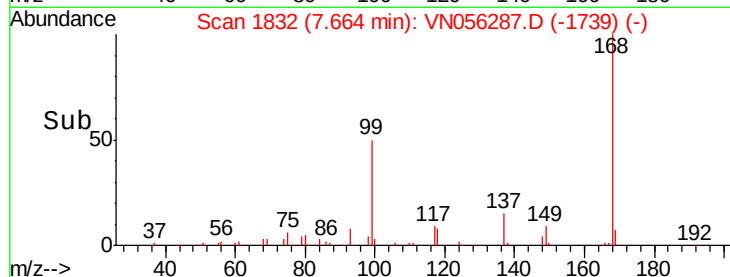
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 3.866 ug/l

RT: 4.74 min Scan# 923

Delta R.T. -0.06 min

Lab File: VN056287.D

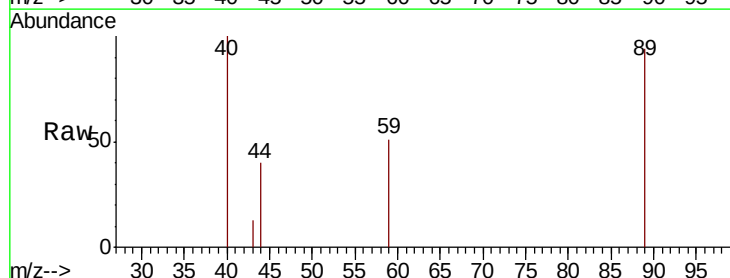
Acq: 13 Jun 2019 17:30

Tgt Ion: 59 Resp: 2281

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.74

800

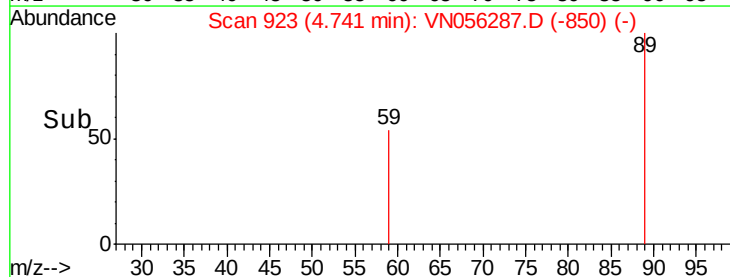
600

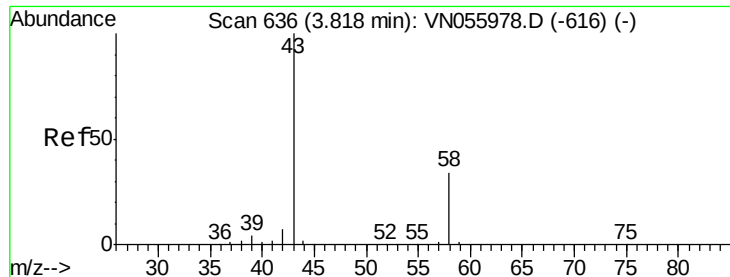
400

200

0

Time-->





#16

Acetone

Concen: 2.946 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN056287.D

Acq: 13 Jun 2019 17:30

Instrument :

MSVOA_N

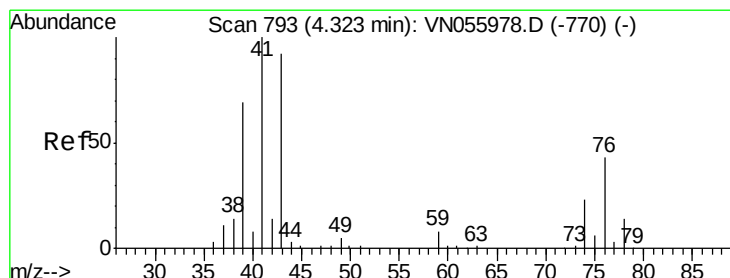
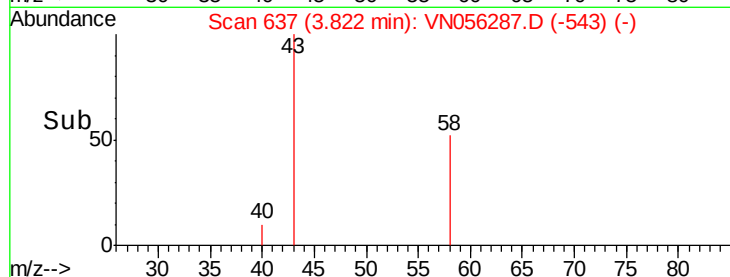
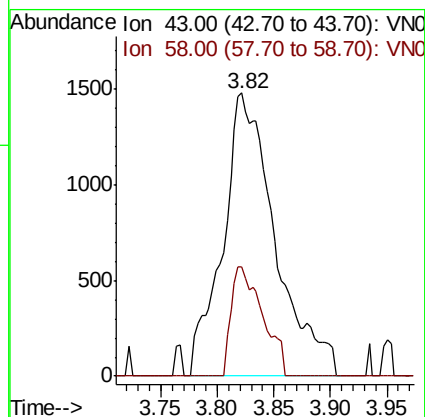
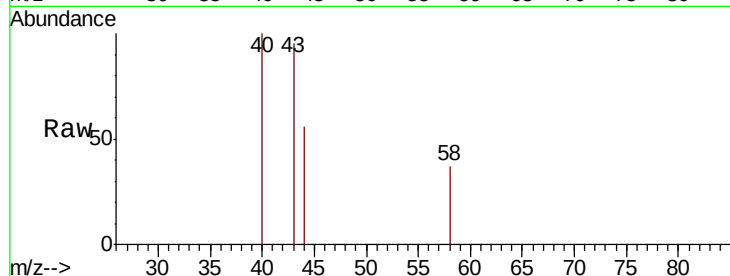
ClientSampled :

Tot Ion: 43 Resp: 4777

Ion Ratio Lower Upper

43 100

58 38.8 26.6 39.8



#18

Methyl Acetate

Concen: 0.601 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN056287.D

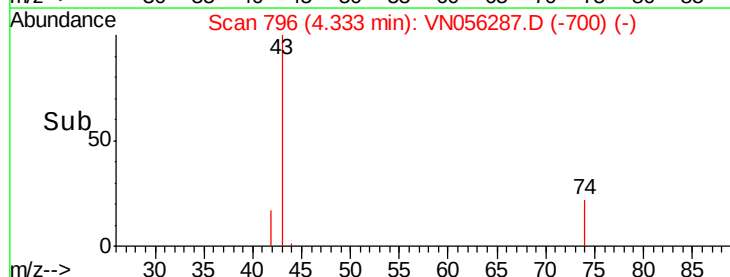
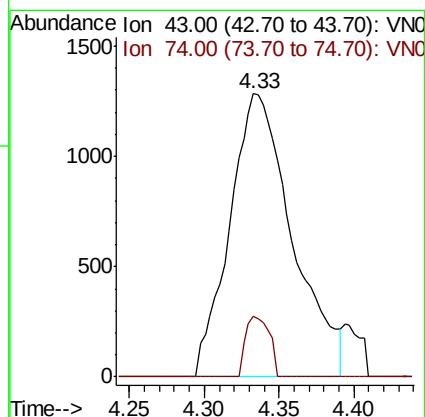
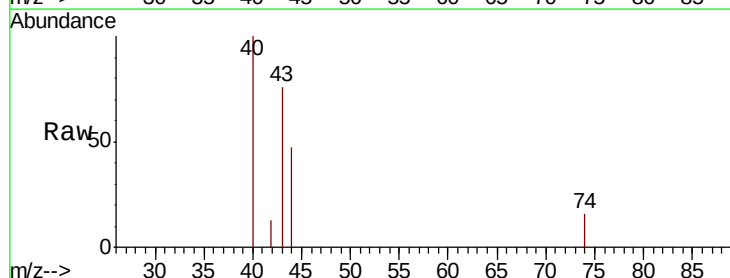
Acq: 13 Jun 2019 17:30

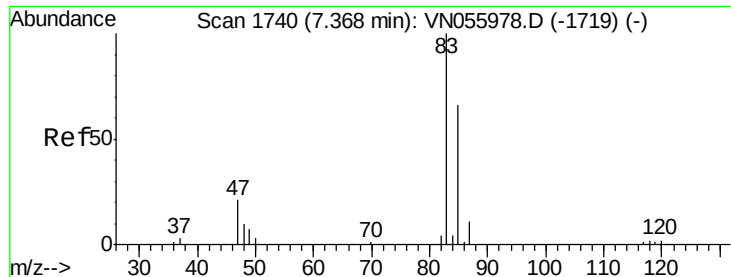
Tgt Ion: 43 Resp: 3734

Ion Ratio Lower Upper

43 100

74 8.2 19.3 28.9#

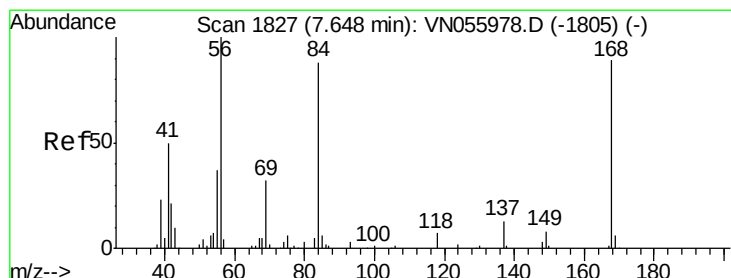
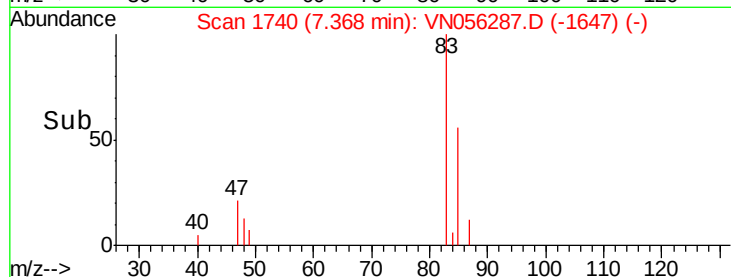
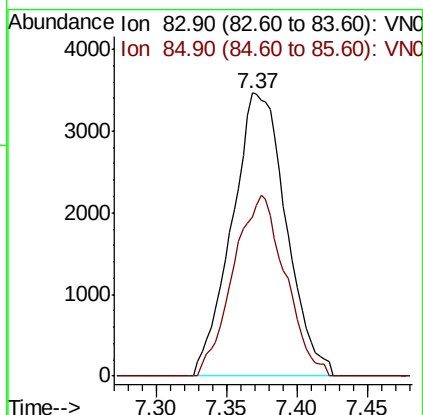
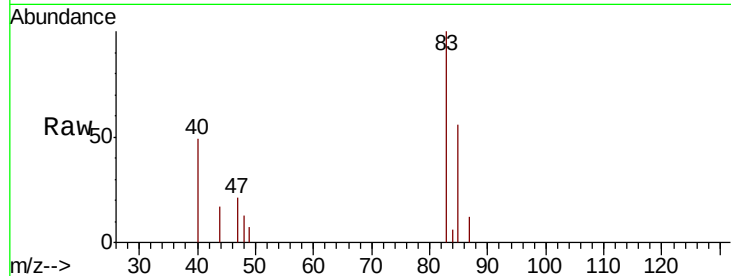




#30
Chloroform
Concen: 1.716 ug/l
RT: 7.37 min Scan# 1740
Delta R.T. 0.00 min
Lab File: VN056287.D
Acq: 13 Jun 2019 17:30

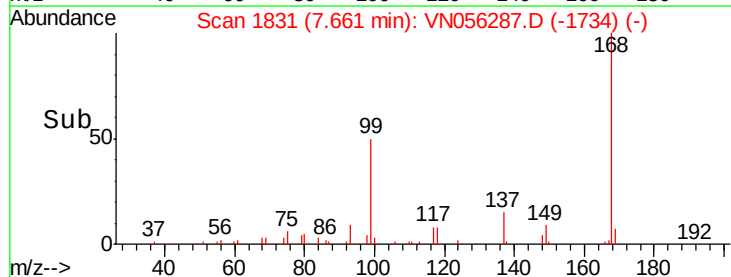
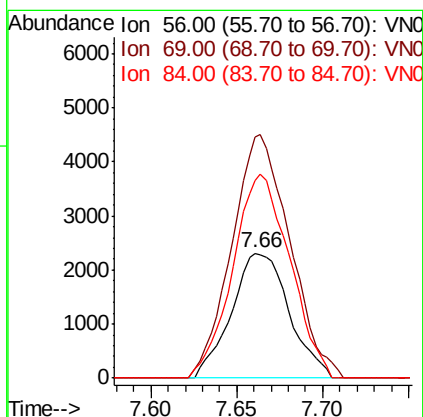
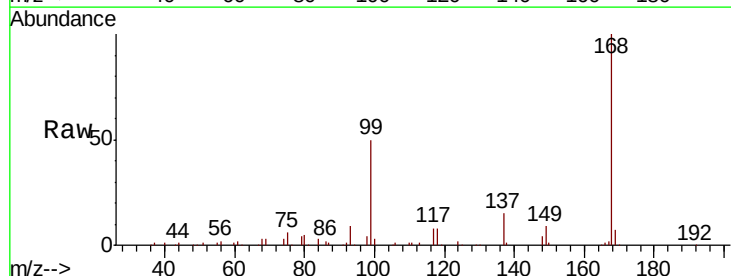
Instrument :
MSVOA_N
ClientSampleId :

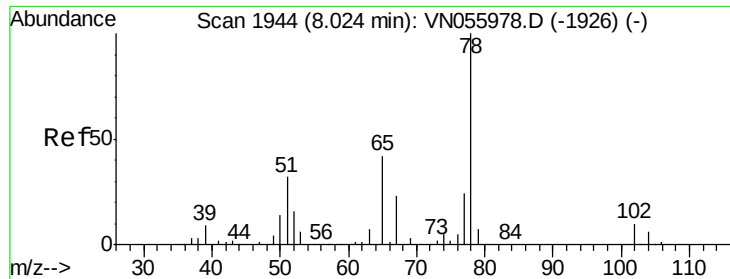
Tot Ion: 83 Resp: 9316
Ion Ratio Lower Upper
83 100
85 56.3 51.8 77.8



#31
Cyclohexane
Concen: 1.002 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN056287.D
Acq: 13 Jun 2019 17:30

Tgt Ion: 56 Resp: 5389
Ion Ratio Lower Upper
56 100
69 192.4 25.6 38.4#
84 157.5 67.4 101.0#

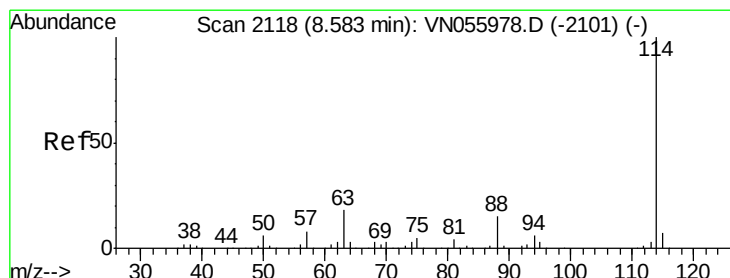
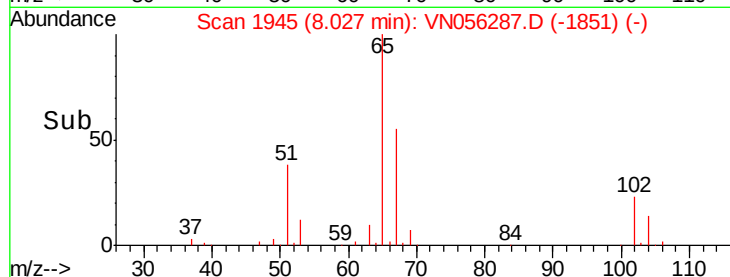
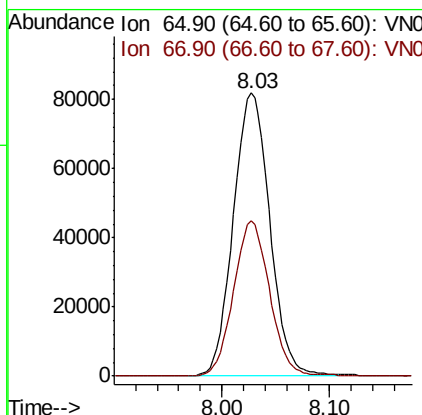
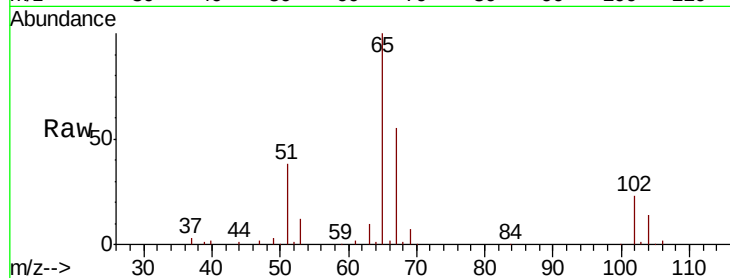




#33
 1,2-Dichloroethane-d4
 Concen: 56.765 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056287.D
 Acq: 13 Jun 2019 17:30

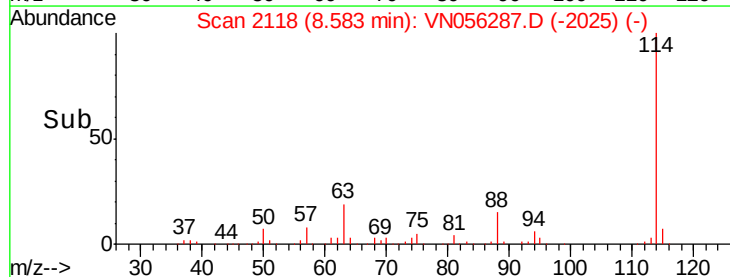
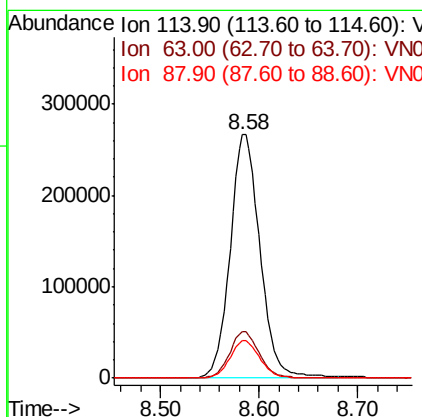
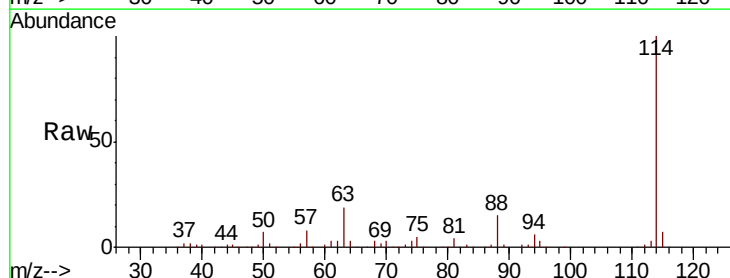
Instrument :
 MSVOA_N
 ClientSampled :

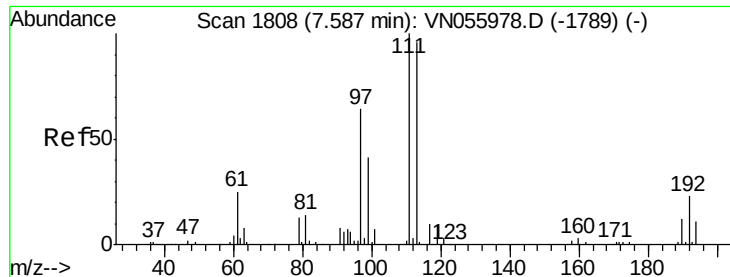
Tot Ion: 65 Resp: 192437
 Ion Ratio Lower Upper
 65 100
 67 54.2 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN056287.D
 Acq: 13 Jun 2019 17:30

Tgt Ion: 114 Resp: 562727
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 39.2
 88 15.3 0.0 31.0





#35

Dibromofluoromethane

Concen: 50.671 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN056287.D

Acq: 13 Jun 2019 17:30

Instrument :
MSVOA_N
ClientSampleId :

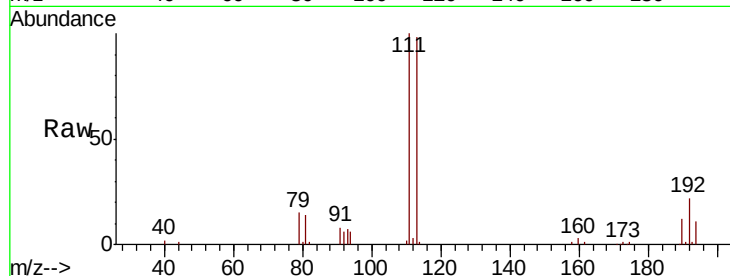
Tot Ion:113 Resp: 174942

Ion Ratio Lower Upper

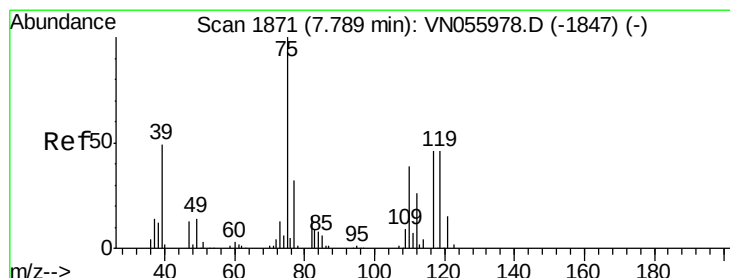
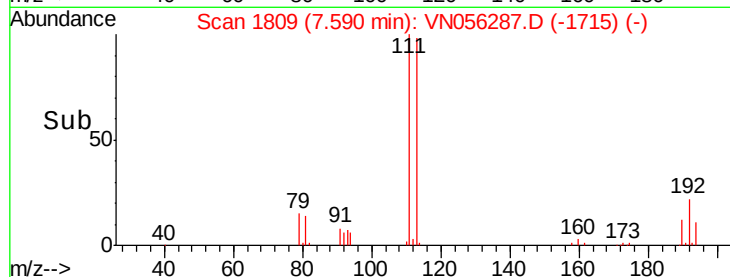
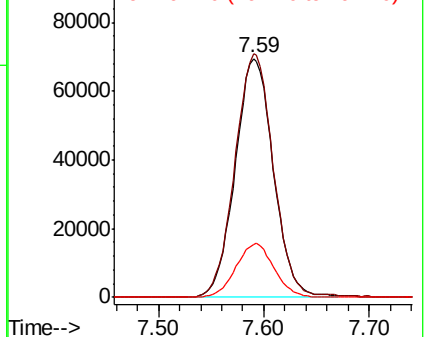
113 100

111 103.0 81.9 122.9

192 22.5 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: 4.564 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.12 min

Lab File: VN056287.D

Acq: 13 Jun 2019 17:30

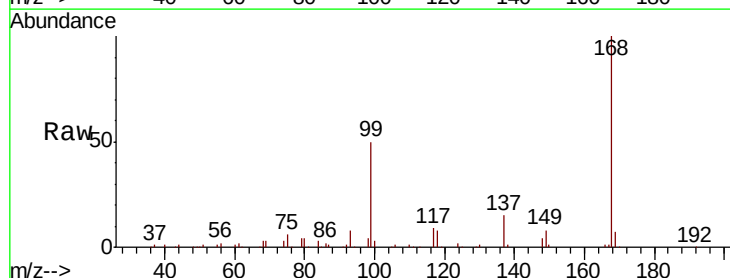
Tgt Ion: 75 Resp: 22083

Ion Ratio Lower Upper

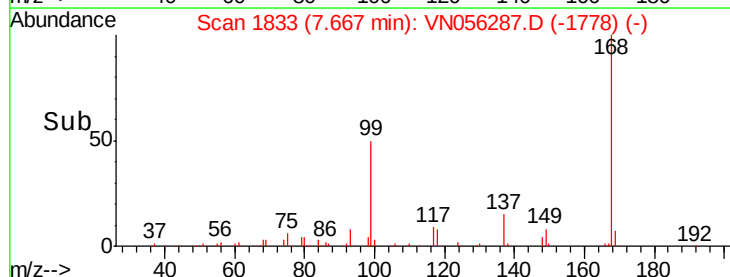
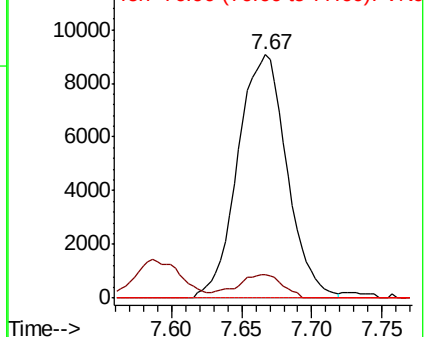
75 100

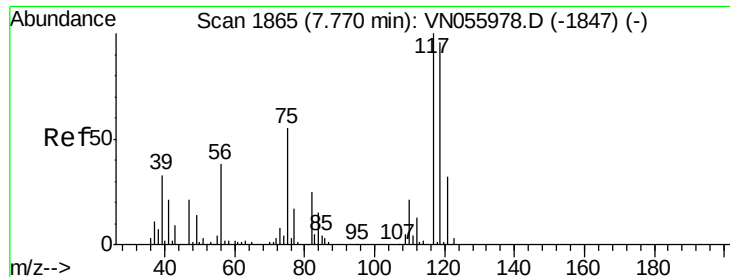
110 9.0 19.0 57.0#

77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.621 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.10 min

Lab File: VN056287.D

Acq: 13 Jun 2019 17:30

Instrument :

MSVOA_N

ClientSampleId :

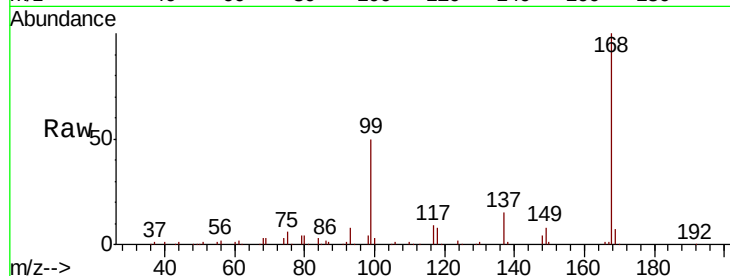
Tot Ion:117 Resp: 29535

Ion Ratio Lower Upper

117 100

119 5.4 79.0 118.6#

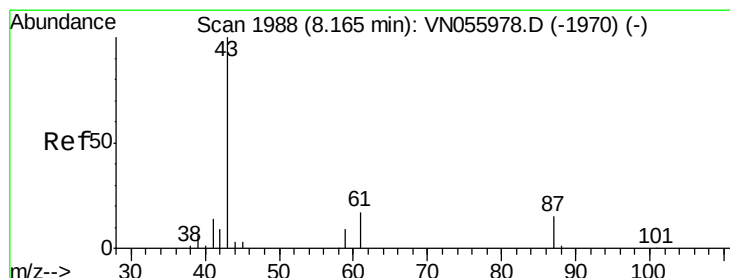
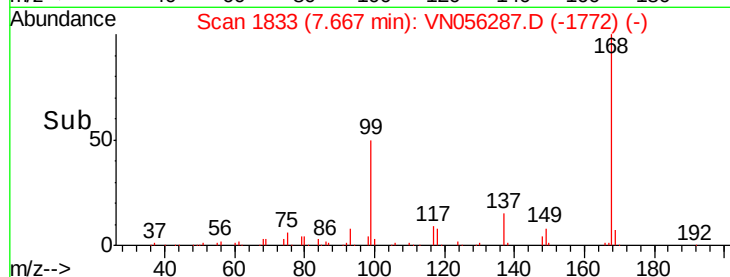
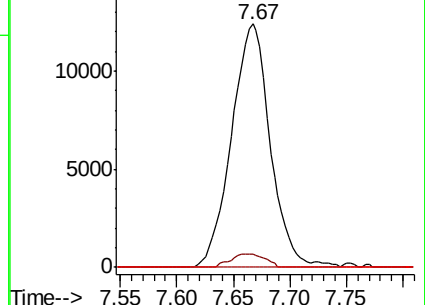
121 0.0 24.7 37.1#



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



#43

Isopropyl Acetate

Concen: 0.277 ug/l

RT: 8.28 min Scan# 2025

Delta R.T. 0.12 min

Lab File: VN056287.D

Acq: 13 Jun 2019 17:30

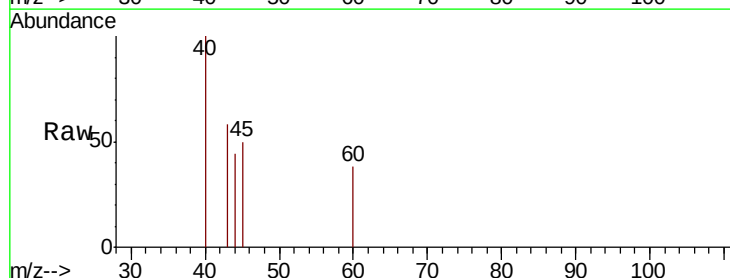
Tgt Ion: 43 Resp: 1934

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

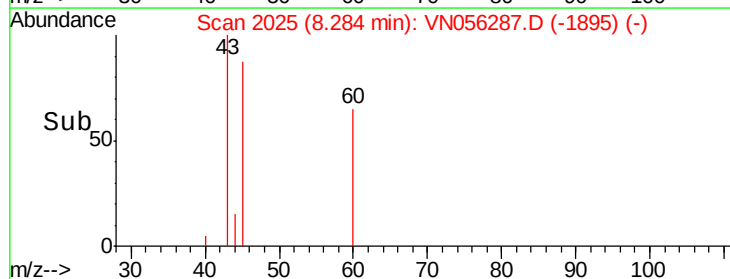
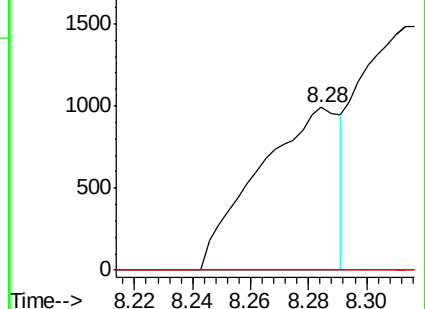
87 0.0 11.4 17.2#

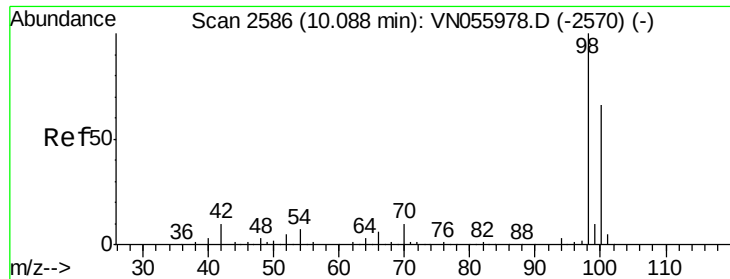


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#50

Toluene-d8

Concen: 52.788 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056287.D

Acq: 13 Jun 2019 17:30

Instrument :

MSVOA_N

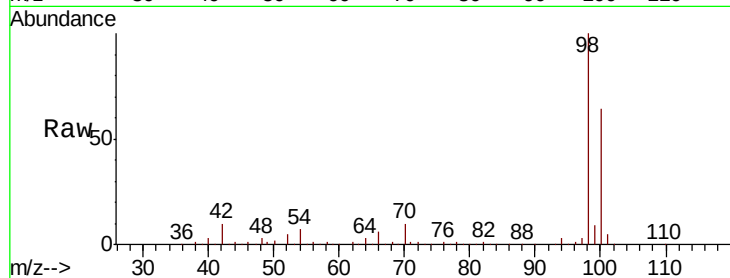
ClientSampled :

Tot Ion: 98 Resp: 701309

Ion Ratio Lower Upper

98 100

100 64.1 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN055978.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN055978.D (-2570) (-)

10.09

400000

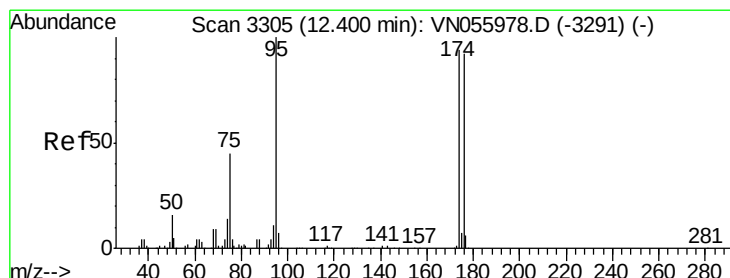
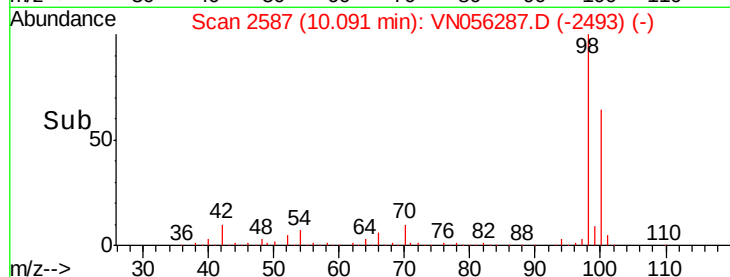
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 49.119 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN056287.D

Acq: 13 Jun 2019 17:30

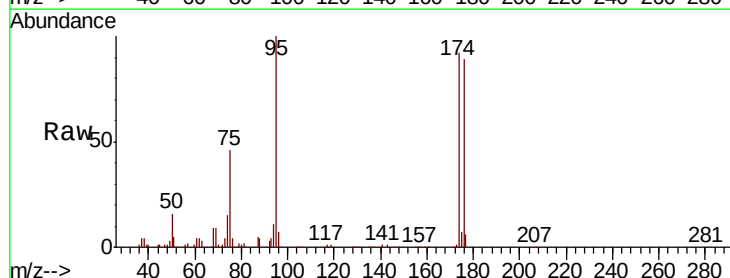
Tgt Ion: 95 Resp: 221922

Ion Ratio Lower Upper

95 100

174 91.5 0.0 191.0

176 88.6 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) (-)

12.40

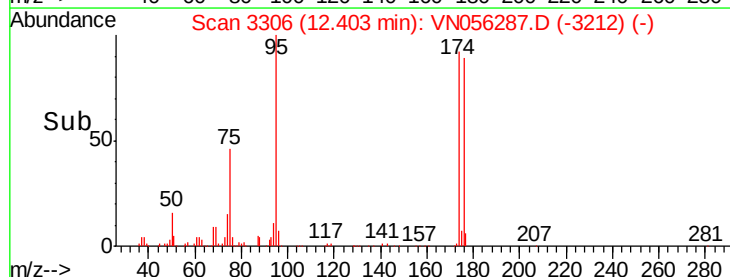
150000

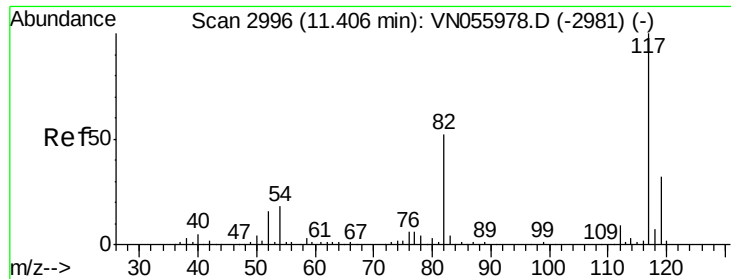
100000

50000

0

Time-->

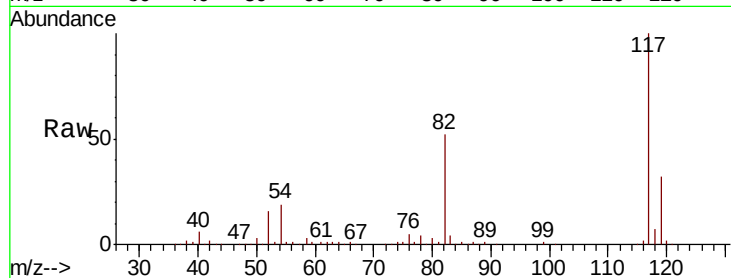




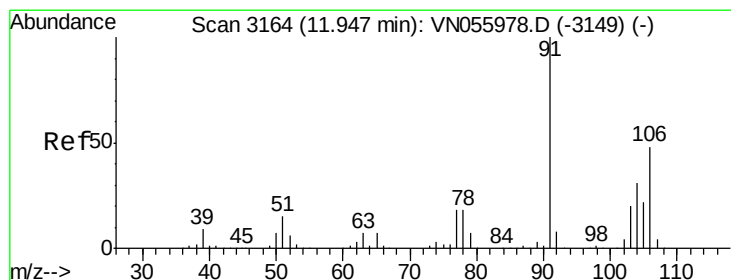
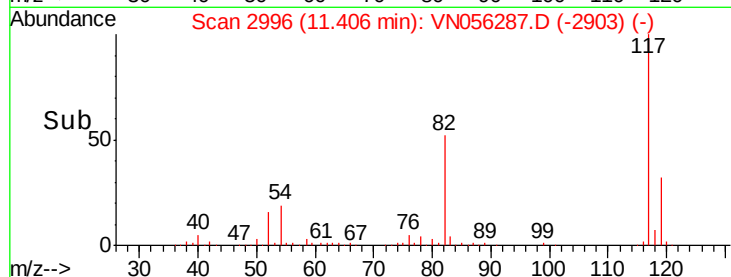
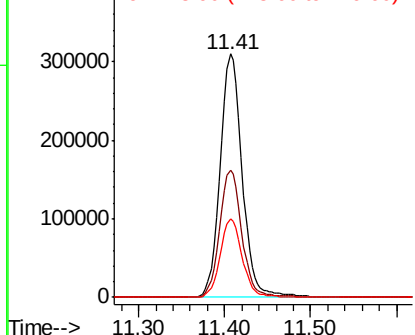
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056287.D
Acq: 13 Jun 2019 17:30

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 553233
Ion Ratio Lower Upper
117 100
82 52.3 41.8 62.8
119 32.1 25.4 38.0

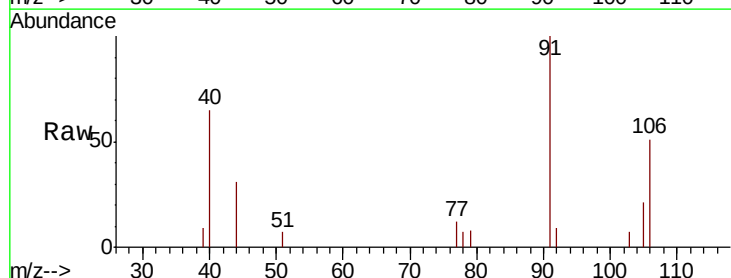


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

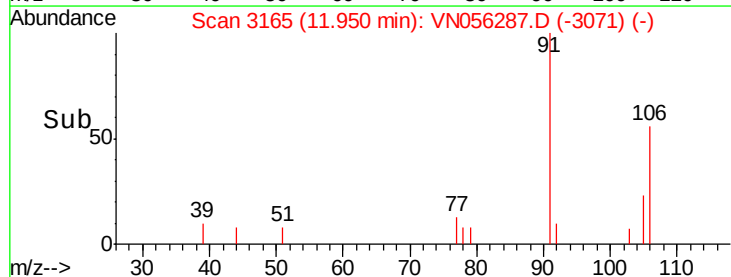
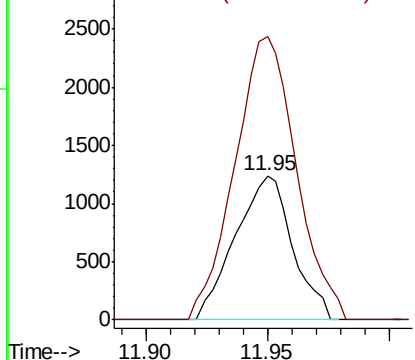


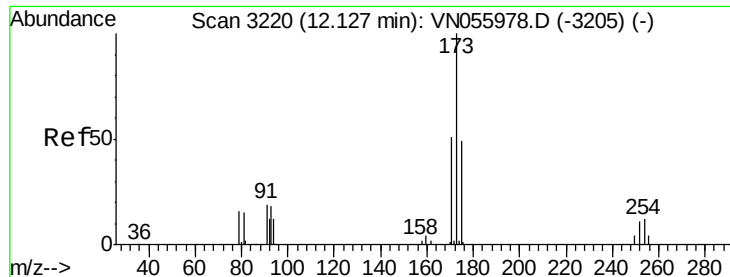
#69
o-Xylene
Concen: 0.280 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN056287.D
Acq: 13 Jun 2019 17:30

Tgt Ion:106 Resp: 2011
Ion Ratio Lower Upper
106 100
91 211.7 104.7 314.1



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN





#71

Bromoform

Concen: 3.172 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN056287.D

Acq: 13 Jun 2019 17:30

Instrument :

MSVOA_N

ClientSampleId :

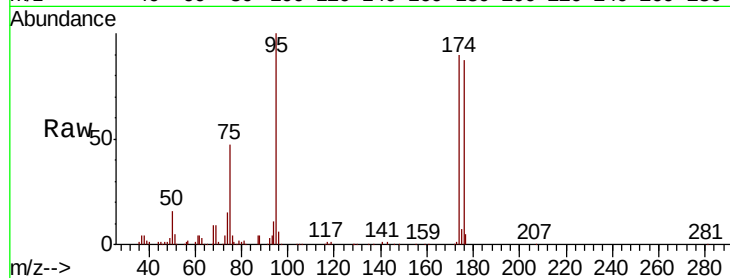
Tot Ion:173 Resp: 1451

Ion Ratio Lower Upper

173 100

175 863.0 24.3 72.8#

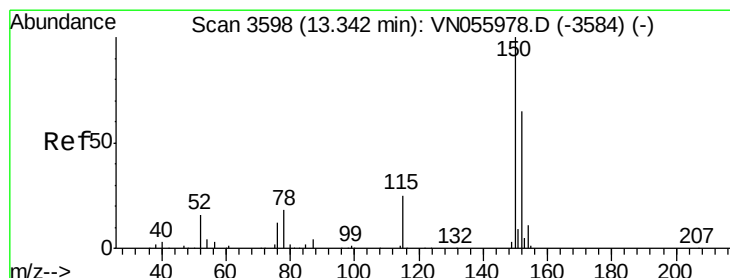
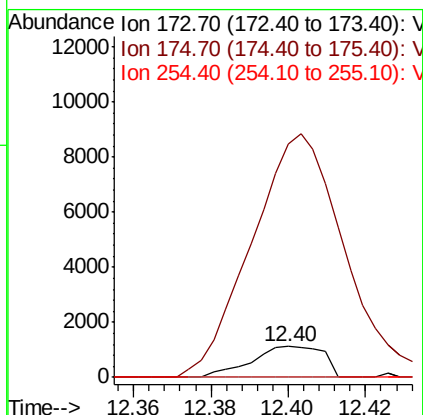
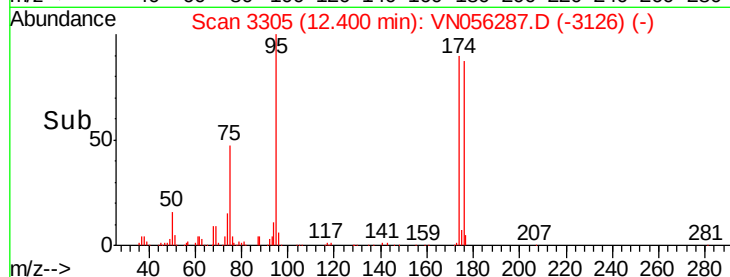
254 0.0 0.0 0.0



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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN056287.D

Acq: 13 Jun 2019 17:30

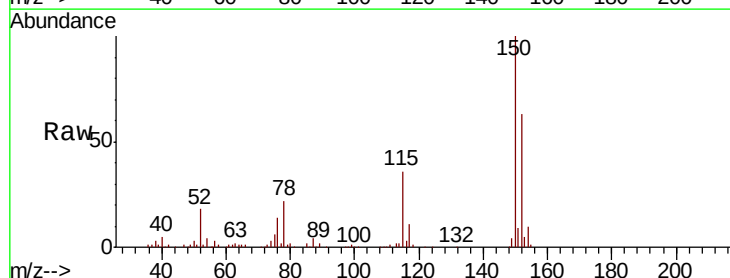
Tgt Ion:152 Resp: 163734

Ion Ratio Lower Upper

152 100

115 55.7 27.0 81.0

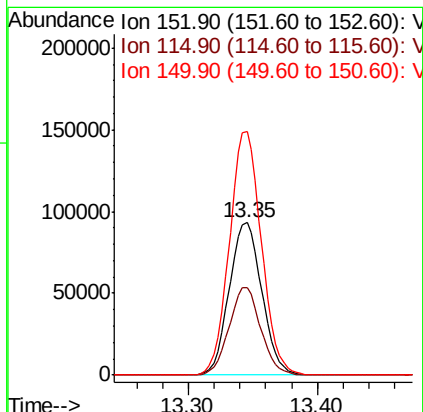
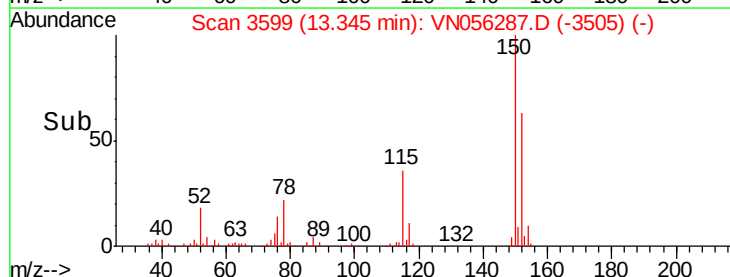
150 156.5 0.0 343.2

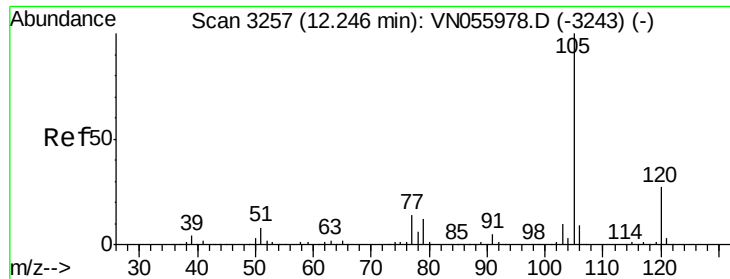


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN056287.D

Acq: 13 Jun 2019 17:30

Instrument :

MSVOA_N

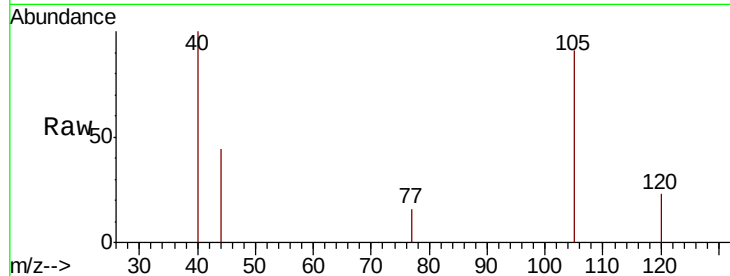
ClientSampleId :

Tot Ion:105 Resp: 1823

Ion Ratio Lower Upper

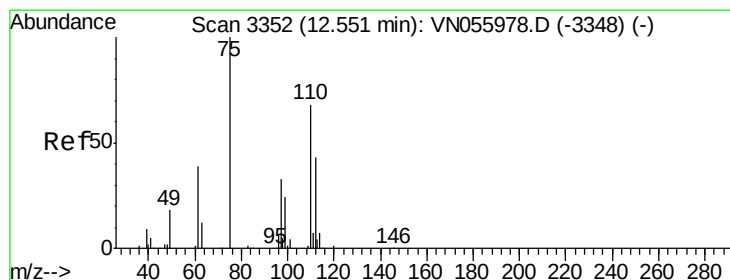
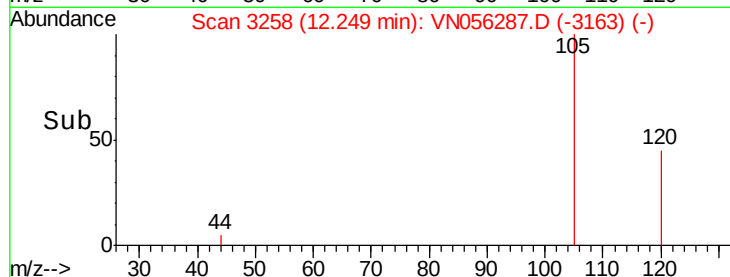
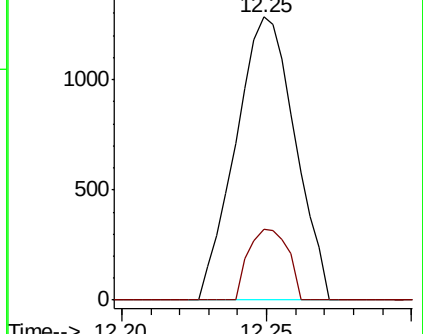
105 100

120 16.8 13.6 40.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#76

1,2,3-Trichloropropane

Concen: 34.222 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056287.D

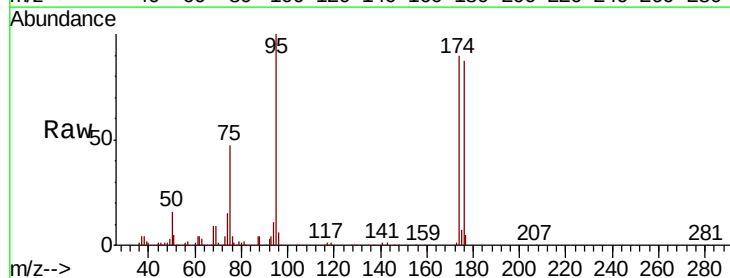
Acq: 13 Jun 2019 17:30

Tgt Ion: 75 Resp: 103104

Ion Ratio Lower Upper

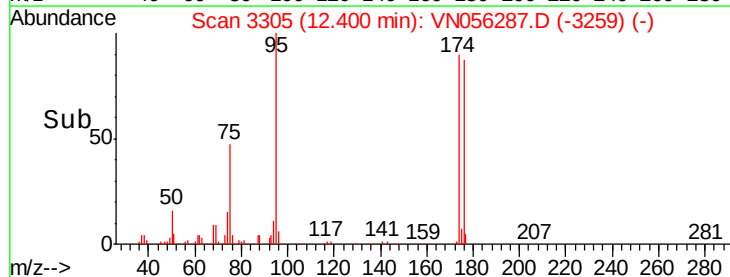
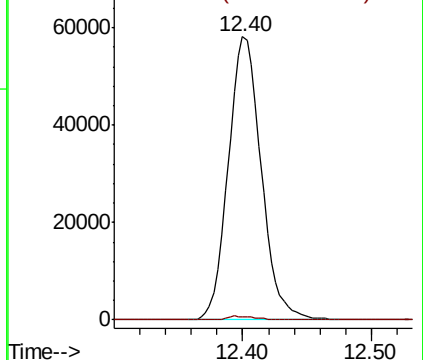
75 100

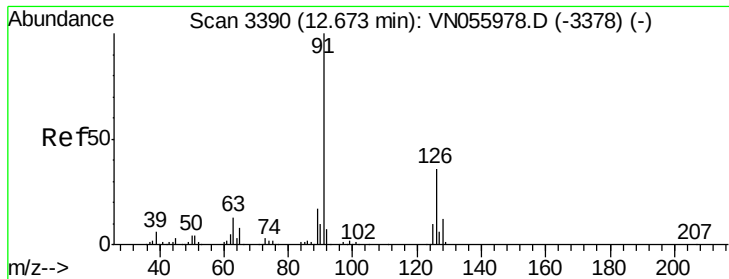
77 1.1 0.0 0.0#



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: 12.59 min Scan# 3365

Delta R.T. -0.08 min

Lab File: VN056287.D

Acq: 13 Jun 2019 17:30

Instrument :

MSVOA_N

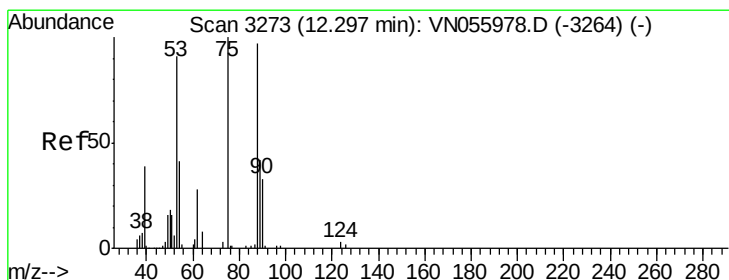
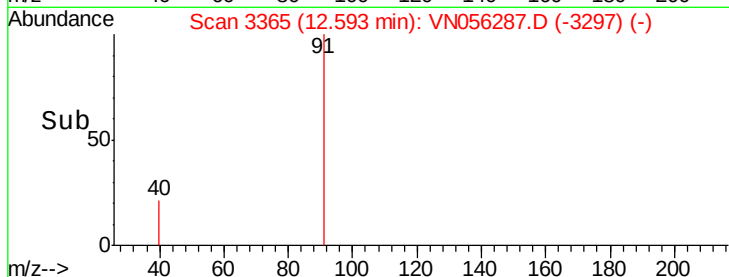
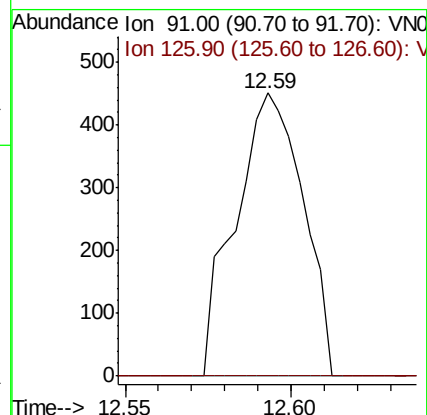
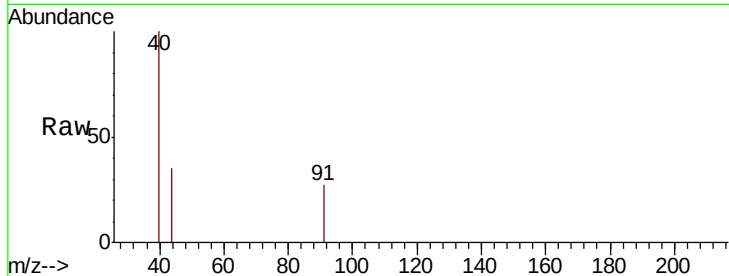
ClientSampled :

Tot Ion: 91 Resp: 638

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 113.967 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056287.D

Acq: 13 Jun 2019 17:30

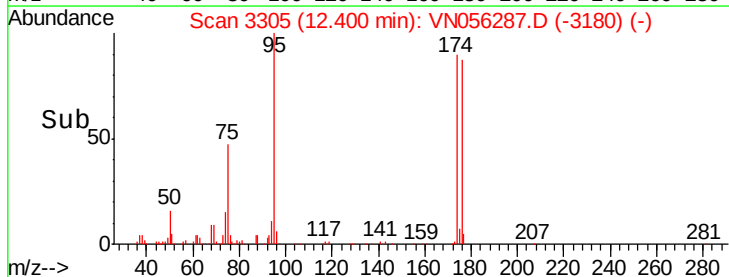
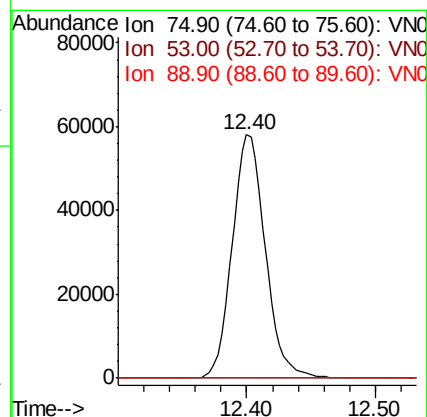
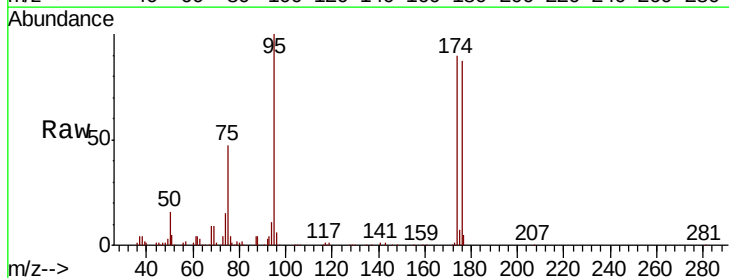
Tgt Ion: 75 Resp: 103104

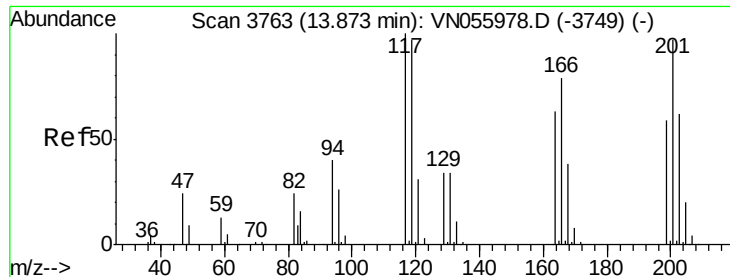
Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

89 0.0 36.9 55.3#





#90

Hexachloroethane

Concen: 0.435 ug/l

RT: 13.99 min Scan# 3801

Delta R.T. 0.12 min

Lab File: VN056287.D

Acq: 13 Jun 2019 17:30

Instrument :

MSVOA_N

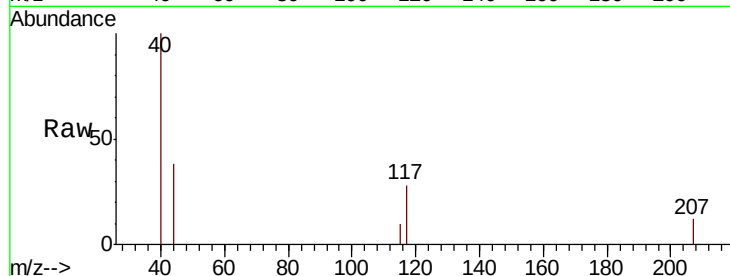
ClientSampled :

Tot Ion:117 Resp: 720

Ion Ratio Lower Upper

117 100

201 0.0 50.0 150.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

13.99

500

400

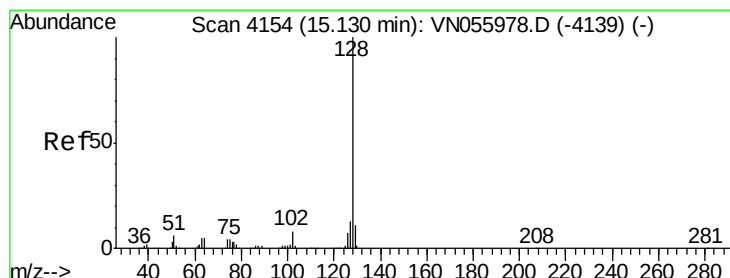
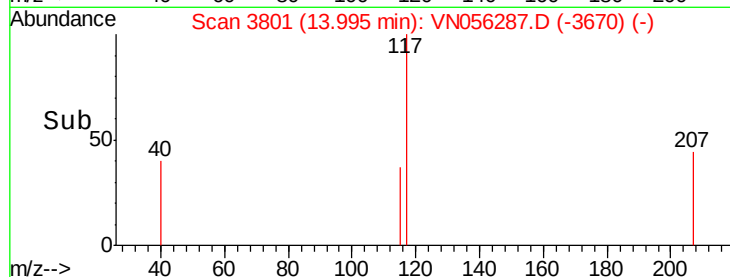
300

200

100

0

Time--> 13.95



#95

Naphthalene

Concen: 3.972 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN056287.D

Acq: 13 Jun 2019 17:30

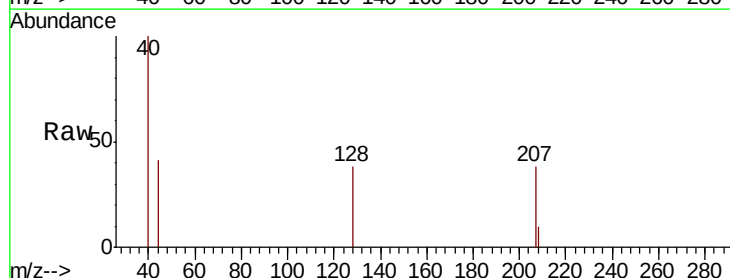
Tgt Ion:128 Resp: 1025

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

800

600

400

200

0

Time--> 15.10

