

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051719\
 Data File : VN055607.D
 Acq On : 17 May 2019 14:03
 Operator : JC/SP
 Sample : VN0517MBL01
 Misc : 5.00µ/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 18 03:08:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 23:54:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	398367	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	572479	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	473582	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	176666	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	191381	43.83	ug/l	0.00
Spiked Amount			Recovery	=	87.66%	
35) Dibromofluoromethane	7.59	113	173270	47.65	ug/l	0.00
Spiked Amount			Recovery	=	95.30%	
50) Toluene-d8	10.09	98	663492	48.25	ug/l	0.00
Spiked Amount			Recovery	=	96.50%	
62) 4-Bromofluorobenzene	12.40	95	206364	43.46	ug/l	0.00
Spiked Amount			Recovery	=	86.92%	

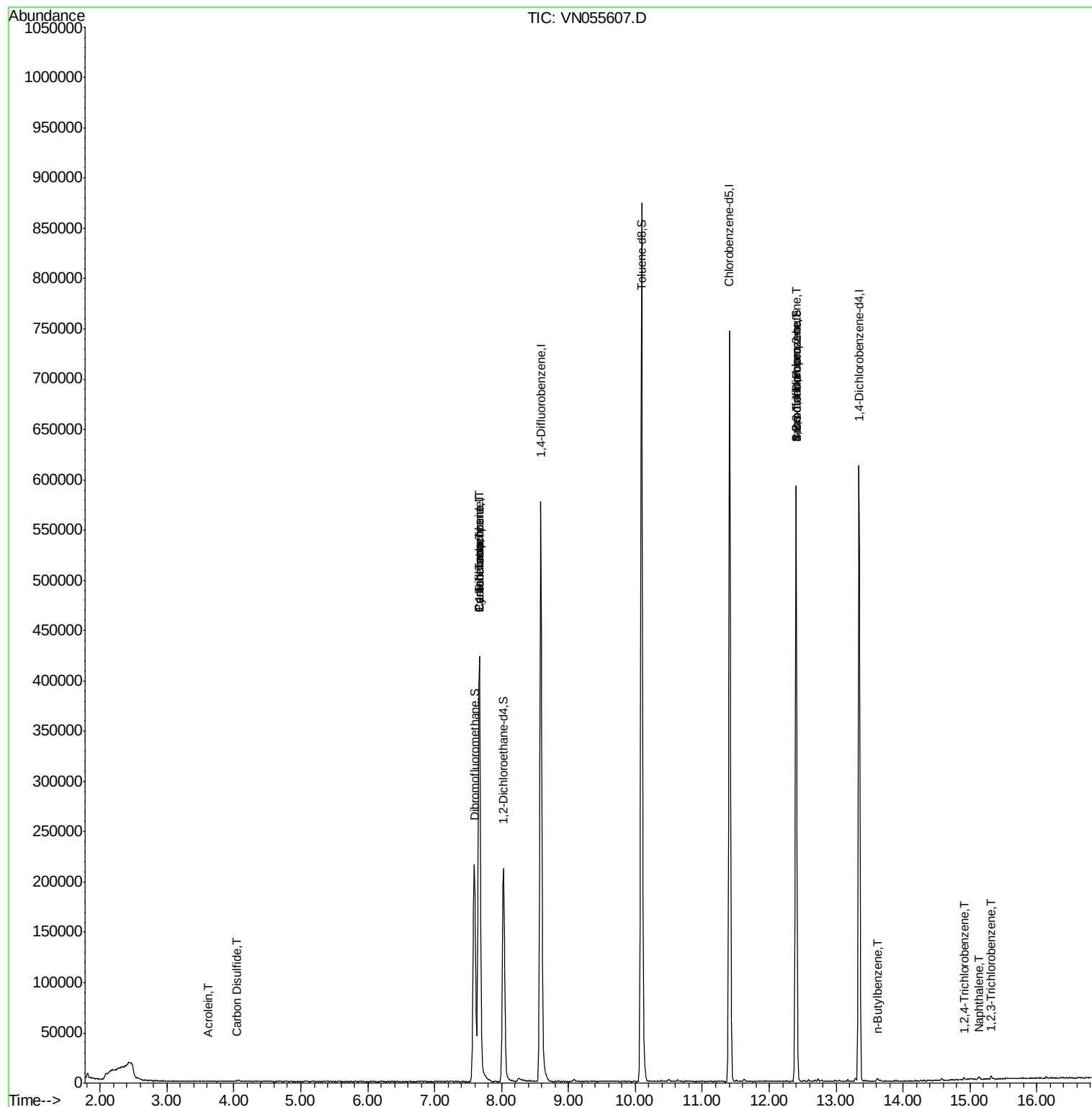
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	273	2.016	ug/l #	14
17) Carbon Disulfide	4.06	76	3326	0.329	ug/l #	75
31) Cyclohexane	7.66	56	6965	1.075	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	24282	4.757	ug/l #	49
38) Carbon Tetrachloride	7.67	117	33540	6.149	ug/l #	15
71) Bromoform	12.40	173	1236	0.378	ug/l #	1
73) Isopropylbenzene	12.25	105	820	Below Cal	#	71
76) 1,2,3-Trichloropropane	12.40	75	95397	26.463	ug/l #	100
79) 2-Chlorotoluene	12.68	91	842	Below Cal		82
80) 1,3,5-Trimethylbenzene	12.73	105	979	Below Cal		90
81) trans-1,4-Dichloro-2-buten	12.40	75	95397	68.026	ug/l #	17
83) tert-Butylbenzene	12.99	119	663	Below Cal	#	74
84) 1,2,4-Trimethylbenzene	13.04	105	1134	Below Cal		93
85) sec-Butylbenzene	13.17	105	1394	Below Cal		92
86) p-Isopropyltoluene	13.29	119	1711	Below Cal		90
89) n-Butylbenzene	13.62	91	1987	0.205	ug/l	91
93) 1,2,4-Trichlorobenzene	14.91	180	882	0.290	ug/l	94
94) Hexachlorobutadiene	15.01	225	325	Below Cal		92
95) Naphthalene	15.13	128	3231	2.103	ug/l #	89
96) 1,2,3-Trichlorobenzene	15.31	180	1119	0.352	ug/l	95

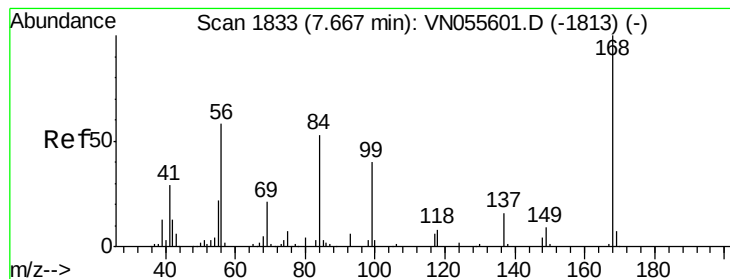
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri May 17 23:54:12 2019
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: VN055607.D

Acq: 17 May 2019 14:03

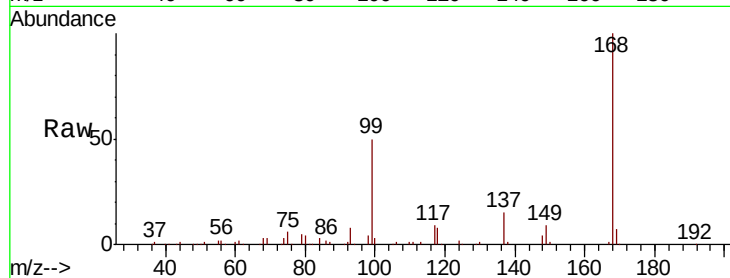
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 398367

Ion Ratio Lower Upper

168 100

99 50.1 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN055607.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN055607.D (-1740) (-)

7.67

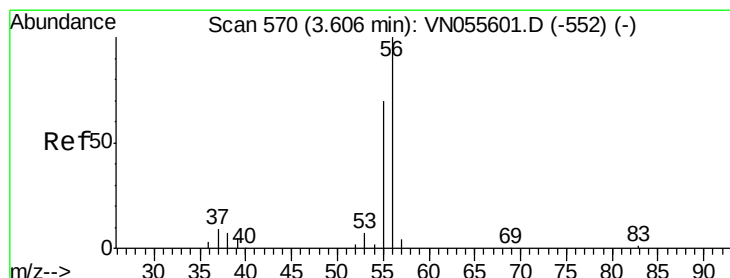
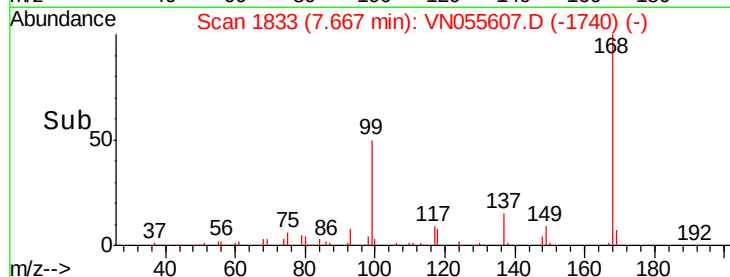
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#13

Acrolein

Concen: 2.016 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN055607.D

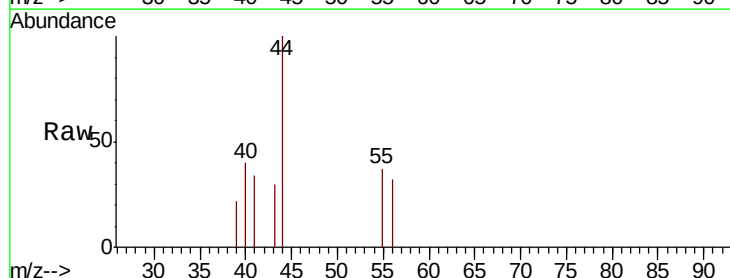
Acq: 17 May 2019 14:03

Tgt Ion: 56 Resp: 273

Ion Ratio Lower Upper

56 100

55 0.0 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VN055607.D (-477) (-)

Ion 55.00 (54.70 to 55.70): VN055607.D (-477) (-)

3.61

400

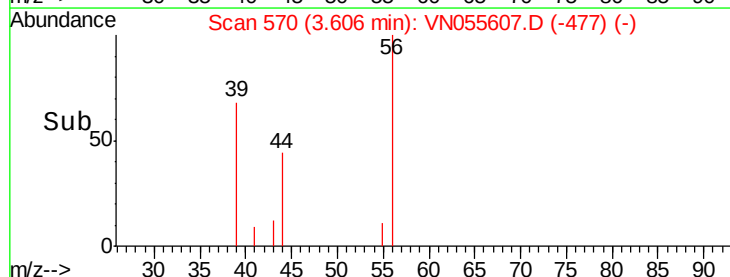
300

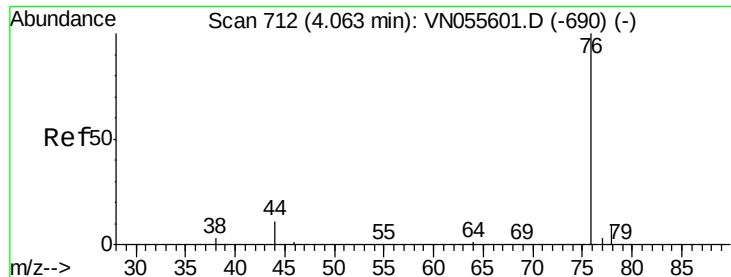
200

100

0

Time--> 3.58 3.59 3.60 3.61 3.62





#17

Carbon Disulfide

Concen: 0.329 ug/l

RT: 4.06 min Scan# 711

Delta R.T. -0.00 min

Lab File: VN055607.D

Acq: 17 May 2019 14:03

Instrument :

MSVOA_N

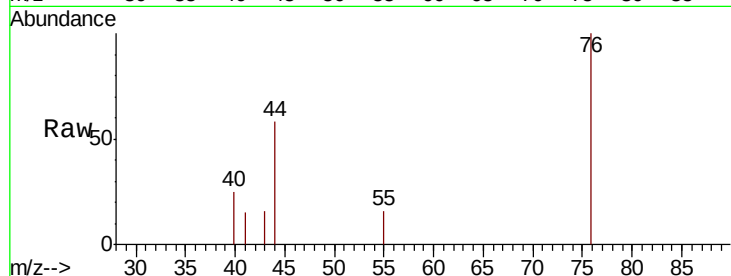
ClientSampled :

Tot Ion: 76 Resp: 3326

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.06

1500

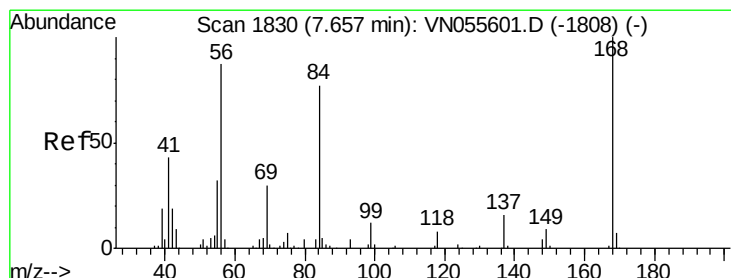
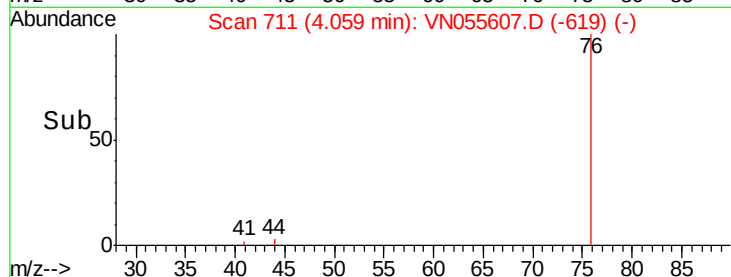
1000

500

0

Time-->

4.00 4.05 4.10



#31

Cyclohexane

Concen: 1.075 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN055607.D

Acq: 17 May 2019 14:03

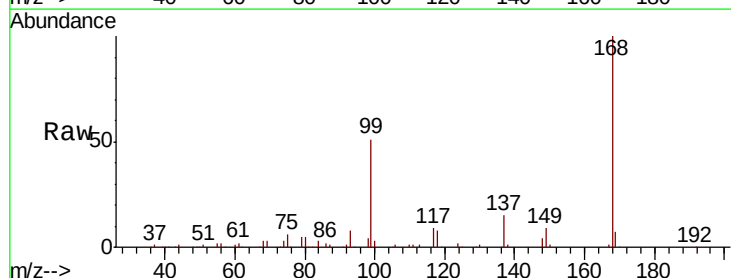
Tgt Ion: 56 Resp: 6965

Ion Ratio Lower Upper

56 100

69 175.5 27.2 40.8#

84 142.2 71.3 106.9#



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

6000

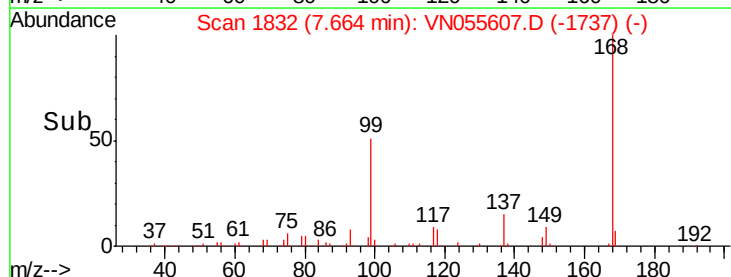
4000

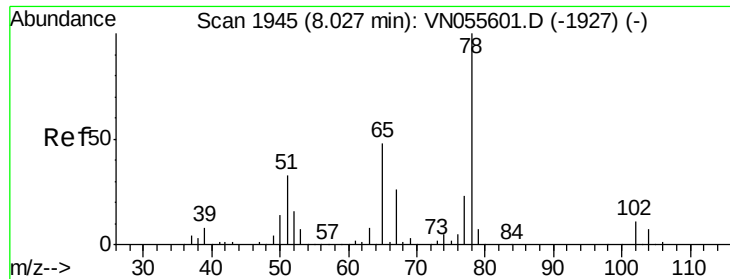
2000

0

Time-->

7.60 7.65 7.70 7.75

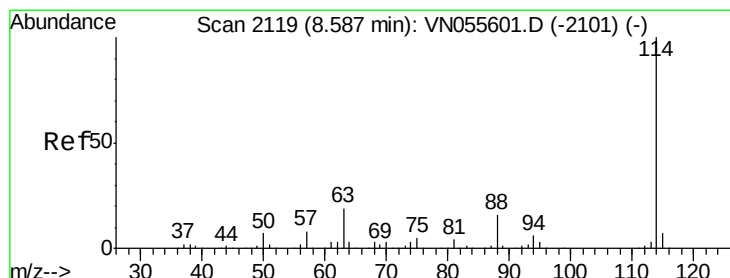
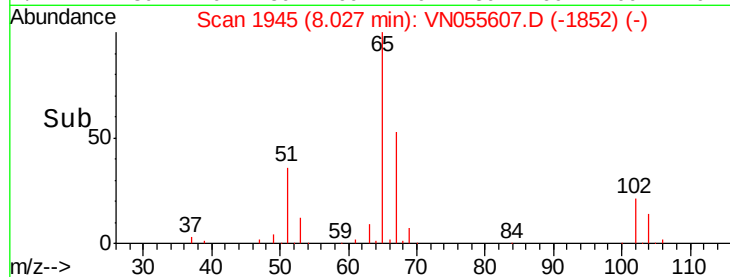
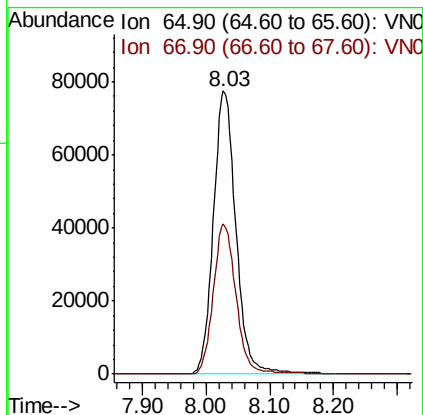
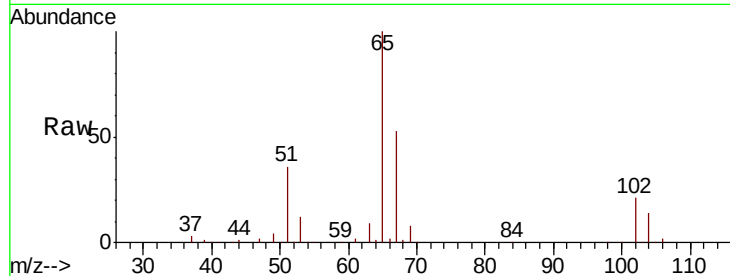




#33
 1,2-Dichloroethane-d4
 Concen: 43.825 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN055607.D
 Acq: 17 May 2019 14:03

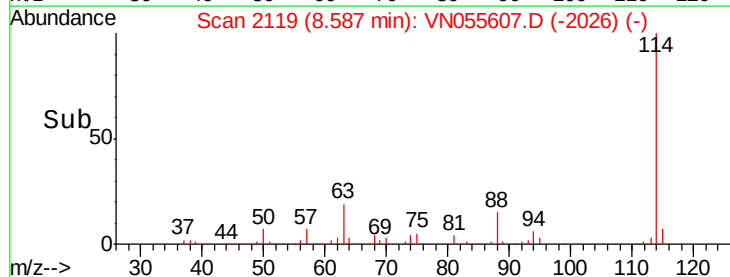
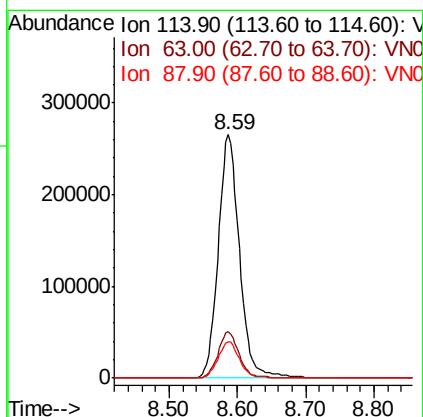
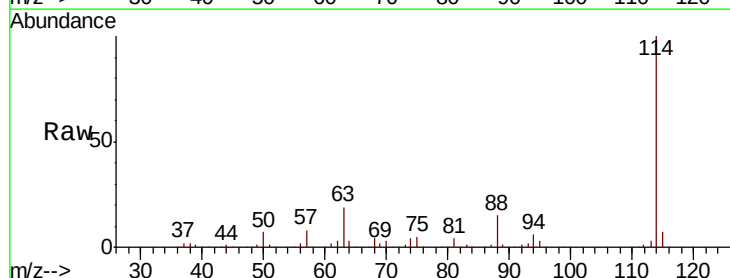
Instrument :
 MSVOA_N
 ClientSampled :

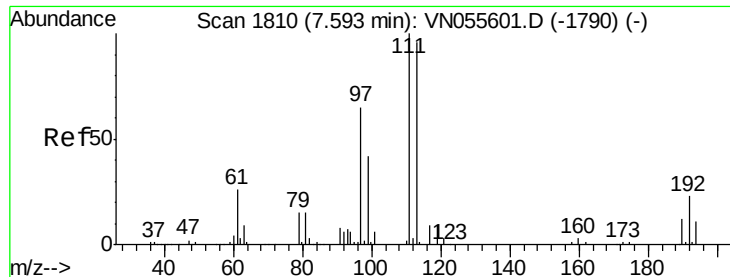
Tot Ion: 65 Resp: 191381
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 108.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN055607.D
 Acq: 17 May 2019 14:03

Tgt Ion: 114 Resp: 572479
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 38.2
 88 15.1 0.0 31.0





#35

Dibromofluoromethane

Concen: 47.646 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. -0.00 min

Lab File: VN055607.D

Acq: 17 May 2019 14:03

Instrument :
MSVOA_N
ClientSampleId :

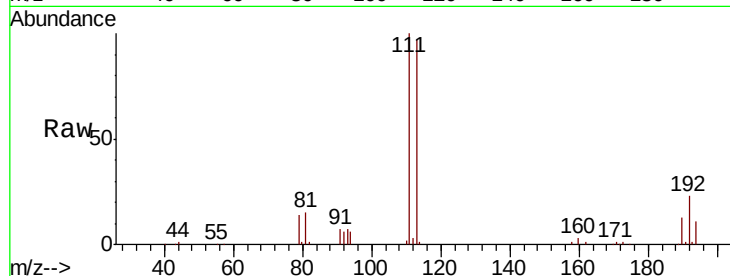
Tot Ion:113 Resp: 173270

Ion Ratio Lower Upper

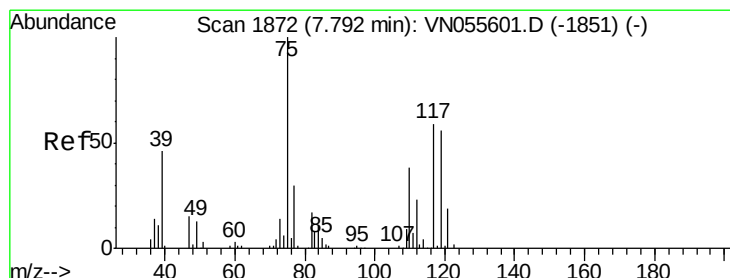
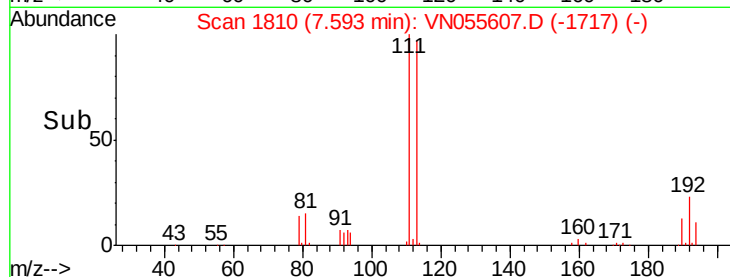
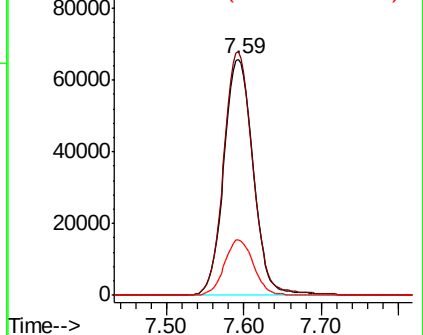
113 100

111 102.6 82.5 123.7

192 23.4 18.7 28.1



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: 4.757 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN055607.D

Acq: 17 May 2019 14:03

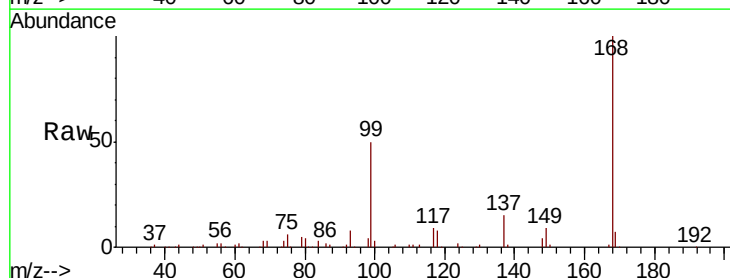
Tgt Ion: 75 Resp: 24282

Ion Ratio Lower Upper

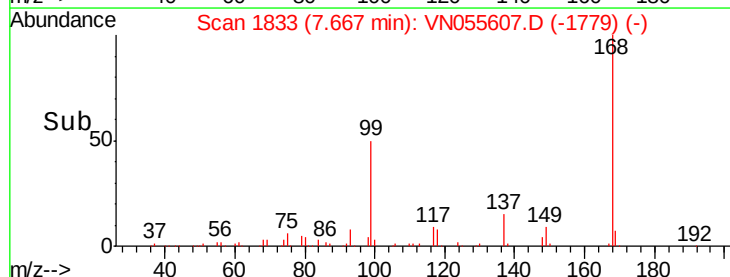
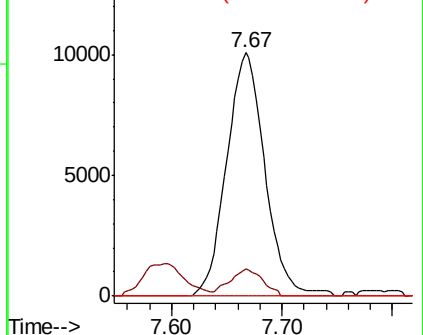
75 100

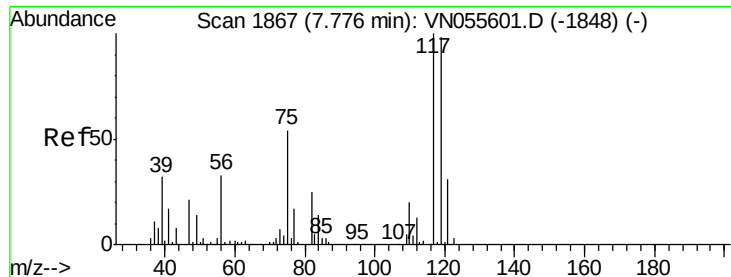
110 9.6 18.6 55.6#

77 0.0 24.9 37.3#



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: 6.149 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN055607.D

Acq: 17 May 2019 14:03

Instrument :

MSVOA_N

ClientSampleId :

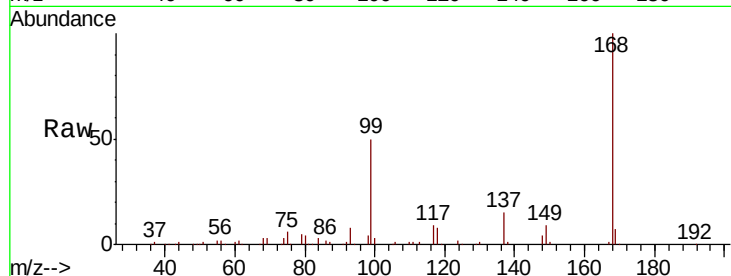
Tot Ion:117 Resp: 33540

Ion Ratio Lower Upper

117 100

119 4.8 77.8 116.8#

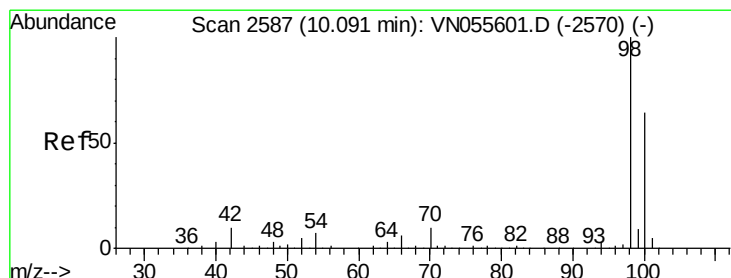
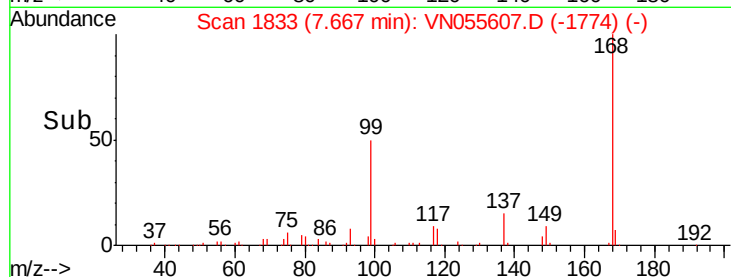
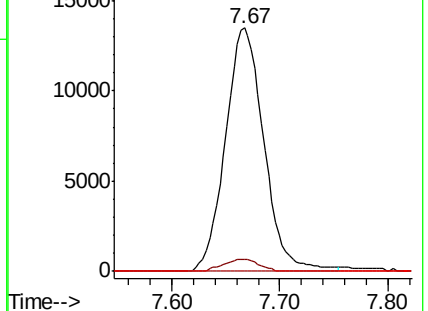
121 0.0 24.6 37.0#



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: 48.252 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN055607.D

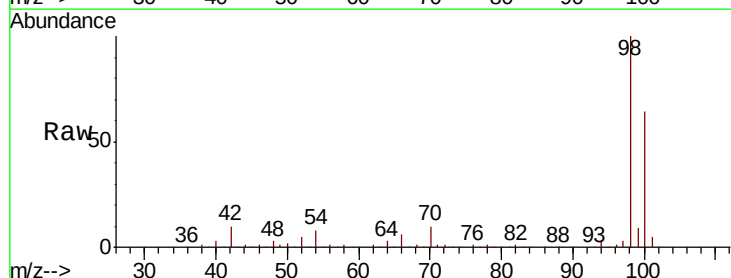
Acq: 17 May 2019 14:03

Tgt Ion: 98 Resp: 663492

Ion Ratio Lower Upper

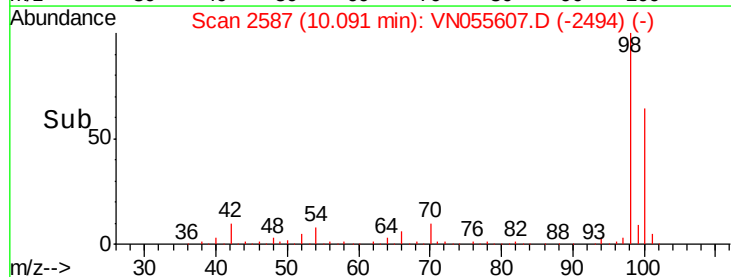
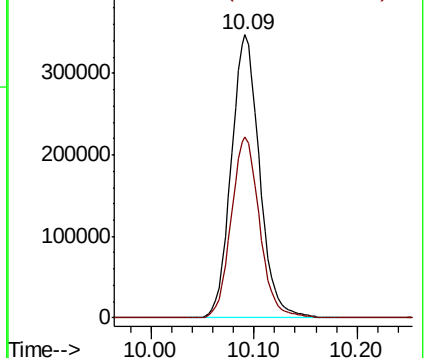
98 100

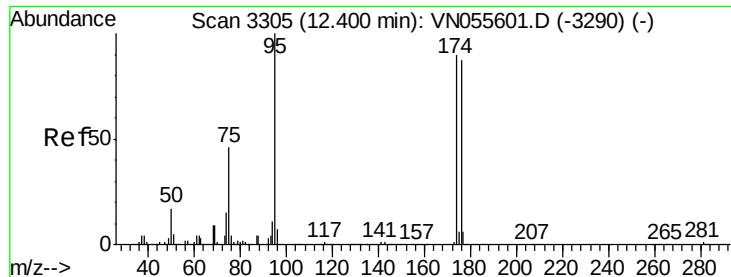
100 64.2 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN

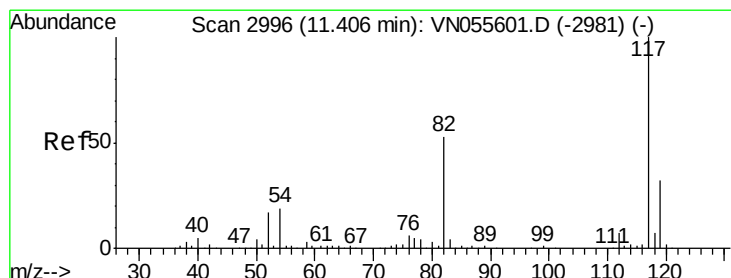
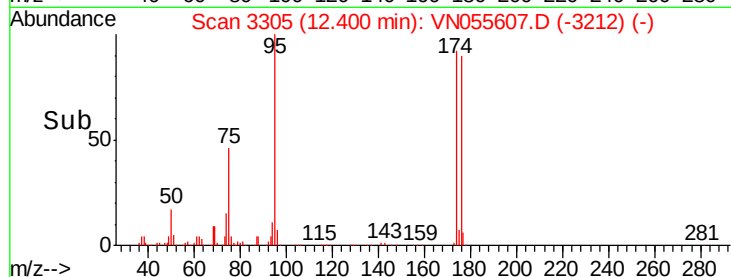
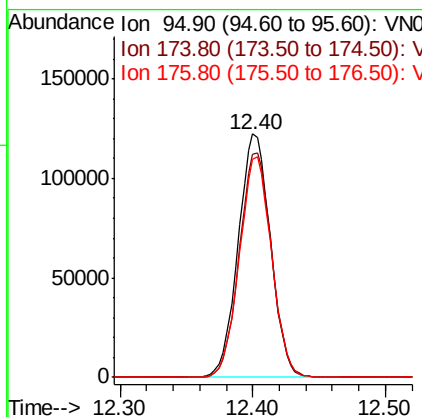
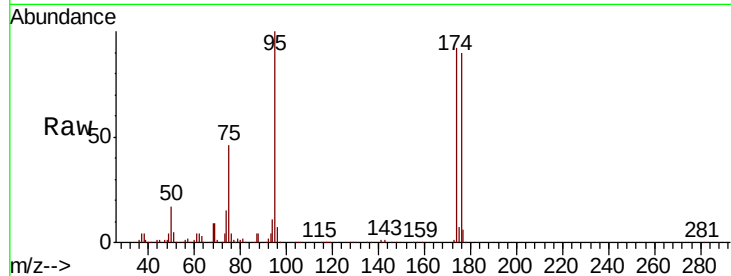




#62
4-Bromofluorobenzene
Concen: 43.461 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN055607.D
Acq: 17 May 2019 14:03

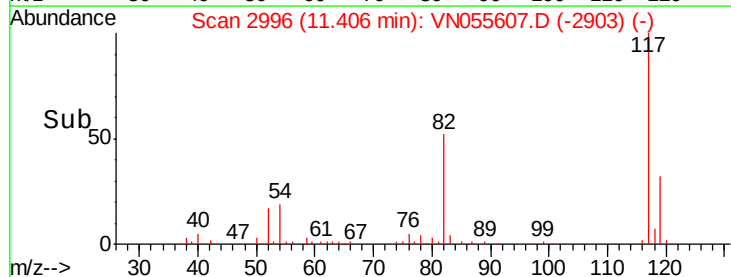
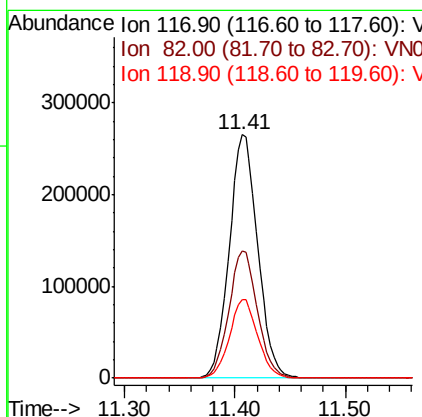
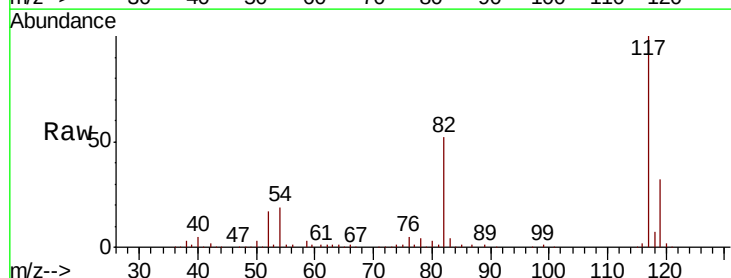
Instrument :
MSVOA_N
ClientSampleId :

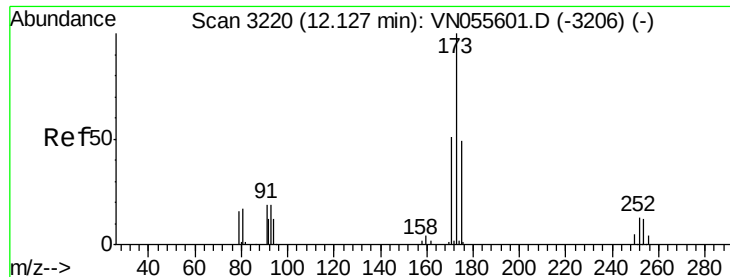
Tot Ion: 95 Resp: 206364
Ion Ratio Lower Upper
95 100
174 92.5 0.0 180.6
176 90.1 0.0 177.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN055607.D
Acq: 17 May 2019 14:03

Tgt Ion: 117 Resp: 473582
Ion Ratio Lower Upper
117 100
82 52.4 42.3 63.5
119 32.4 25.4 38.2





#71

Bromoform

Concen: 0.378 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN055607.D

Acq: 17 May 2019 14:03

Instrument :

MSVOA_N

ClientSampled :

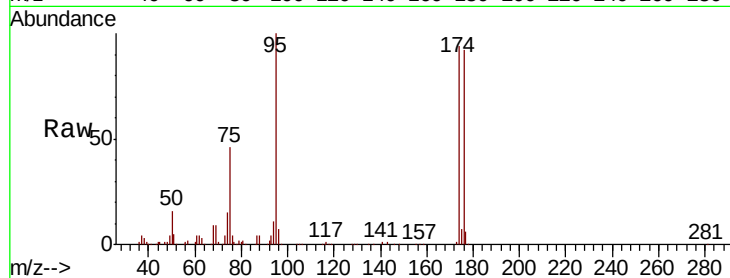
Tot Ion:173 Resp: 1236

Ion Ratio Lower Upper

173 100

175 982.1 24.3 72.9#

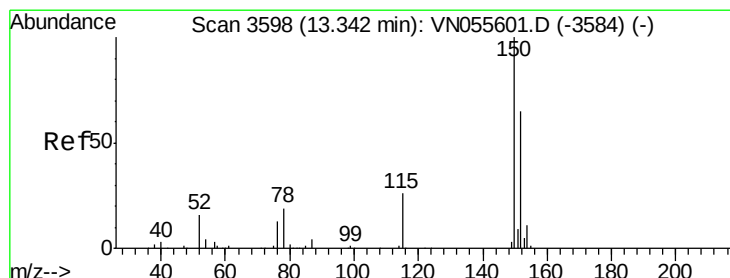
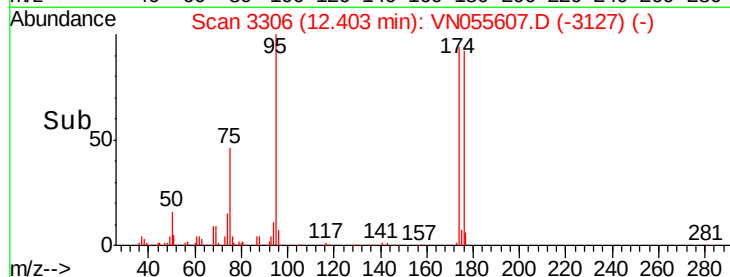
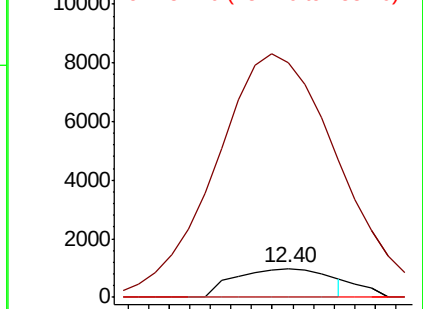
254 0.0 0.1 0.1#



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: VN055607.D

Acq: 17 May 2019 14:03

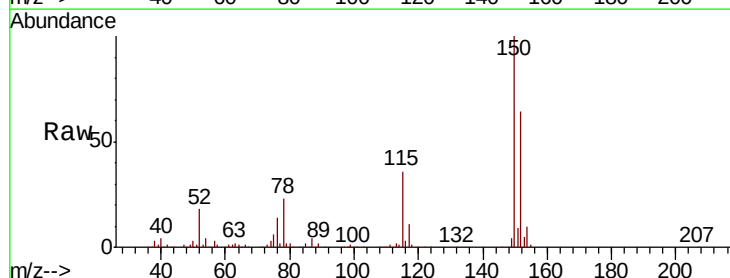
Tgt Ion:152 Resp: 176666

Ion Ratio Lower Upper

152 100

115 55.9 28.1 84.2

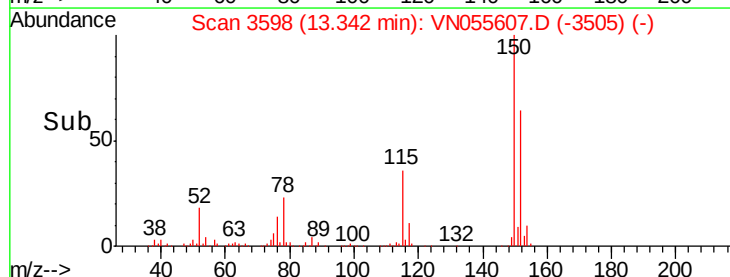
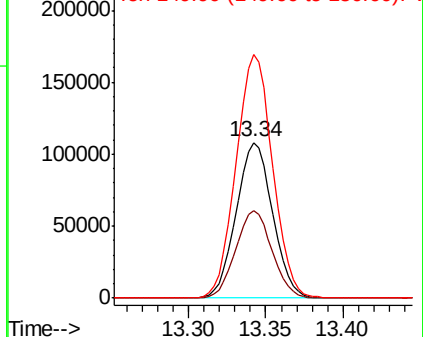
150 157.2 0.0 348.0

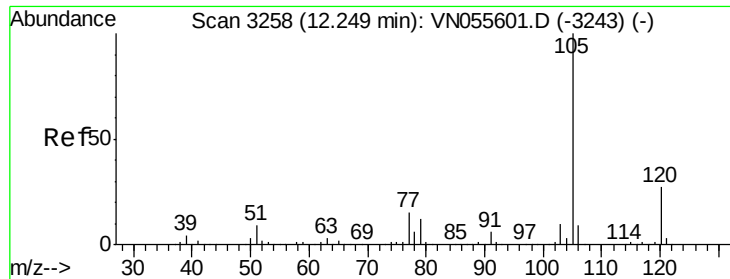


Abundance Ion 151.90 (151.60 to 152.60): V

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: VN055607.D

Acq: 17 May 2019 14:03

Instrument :

MSVOA_N

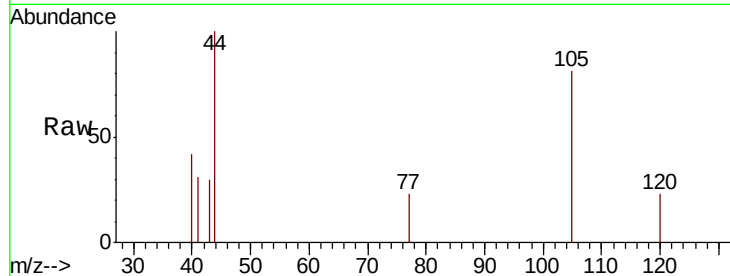
ClientSampleId :

Tot Ion:105 Resp: 820

Ion Ratio Lower Upper

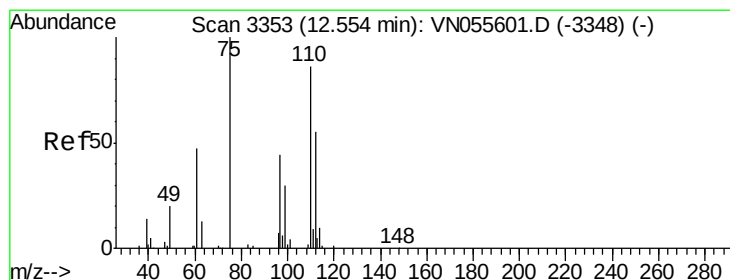
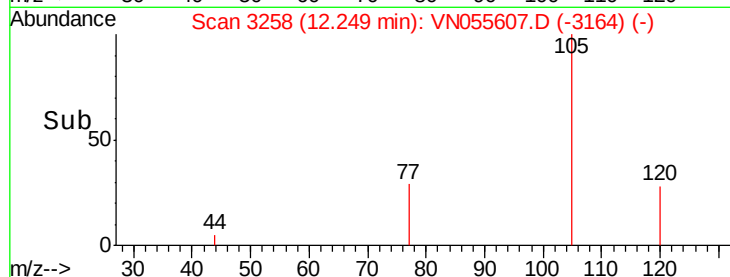
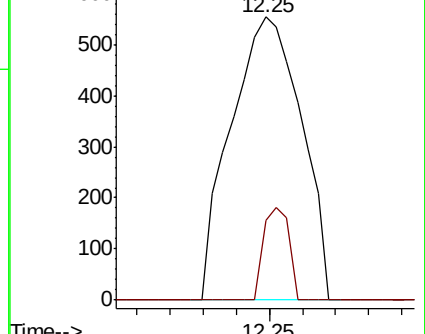
105 100

120 11.7 13.4 40.2#



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: 26.463 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055607.D

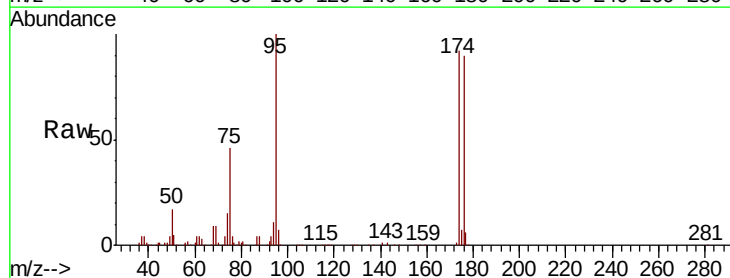
Acq: 17 May 2019 14:03

Tgt Ion: 75 Resp: 95397

Ion Ratio Lower Upper

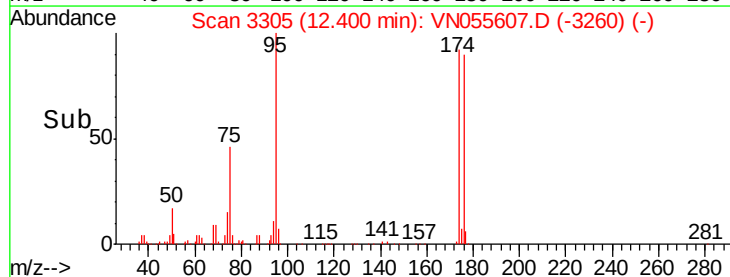
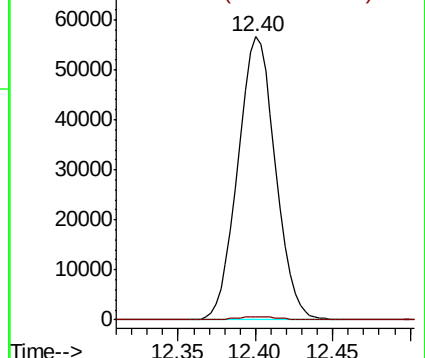
75 100

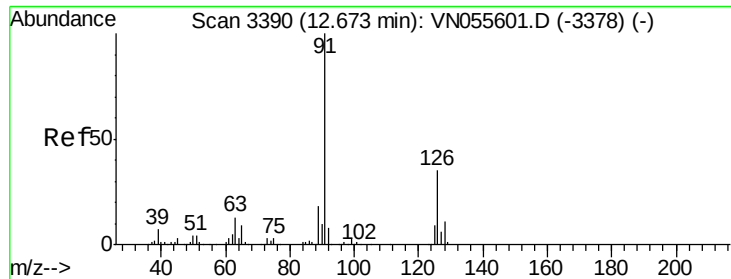
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN055607.D

Acq: 17 May 2019 14:03

Instrument :

MSVOA_N

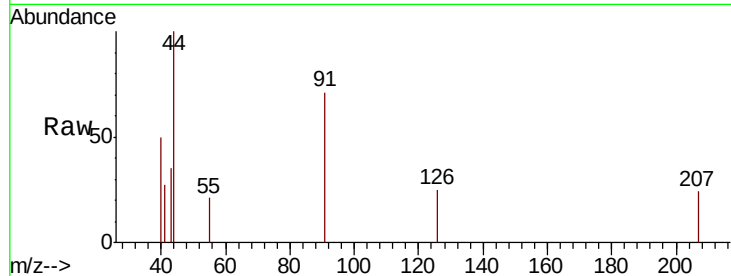
ClientSampled :

Tot Ion: 91 Resp: 842

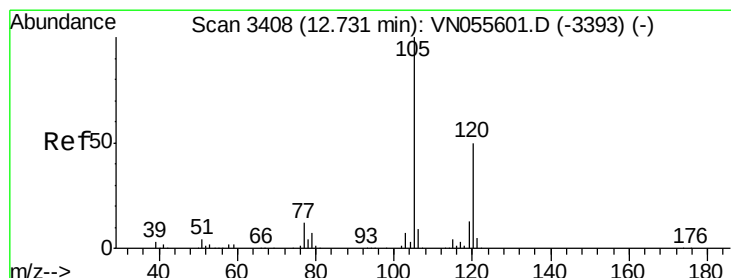
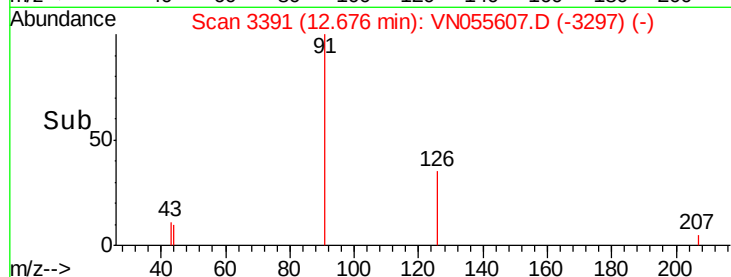
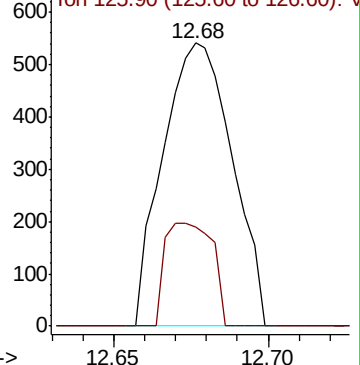
Ion Ratio Lower Upper

91 100

126 24.8 17.8 53.4



Abundance Ion 91.00 (90.70 to 91.70): VN055601.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN055607.D

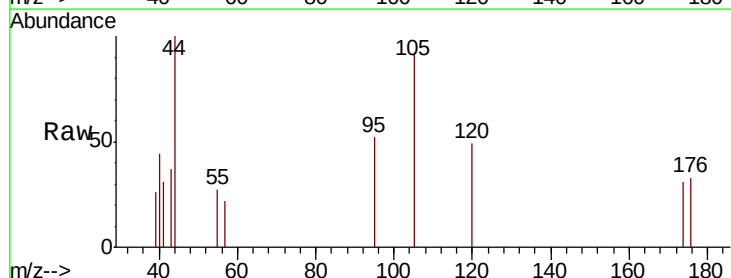
Acq: 17 May 2019 14:03

Tgt Ion: 105 Resp: 979

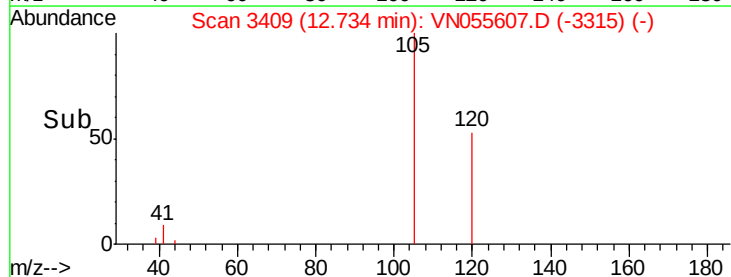
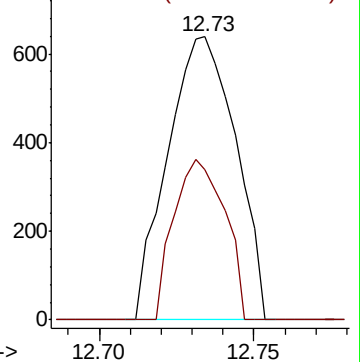
Ion Ratio Lower Upper

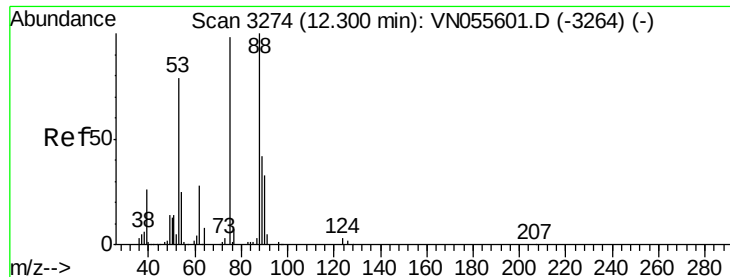
105 100

120 42.5 24.6 74.0



Abundance Ion 105.00 (104.70 to 105.70): VN055601.D (-3393) (-)

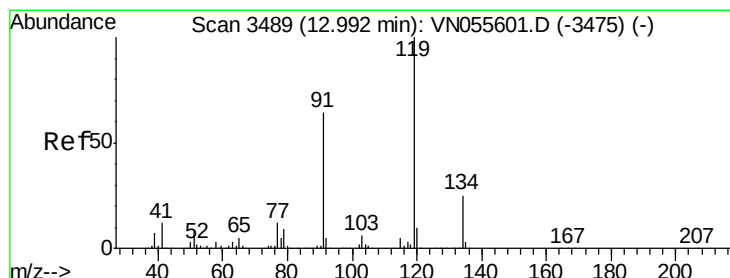
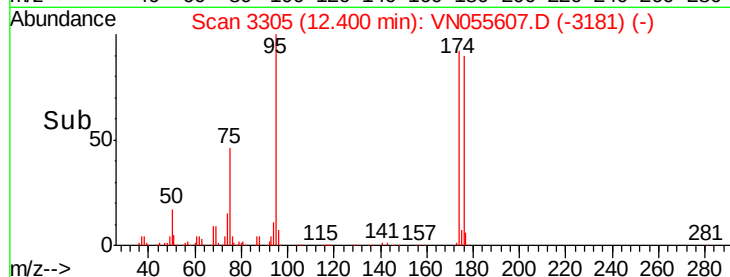
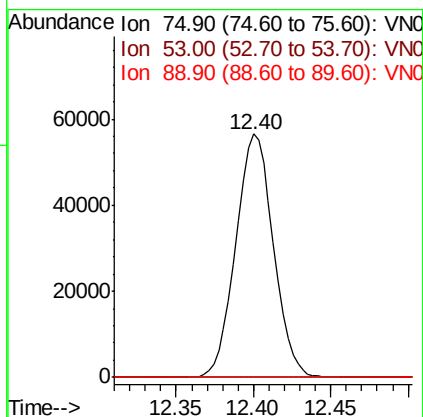
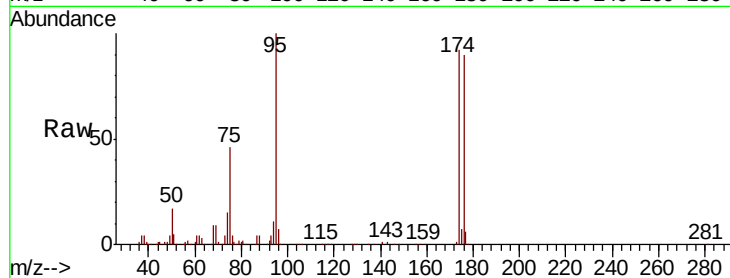




#81
 trans-1,4-Dichloro-2-butene
 Concen: 68.026 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN055607.D
 Acq: 17 May 2019 14:03

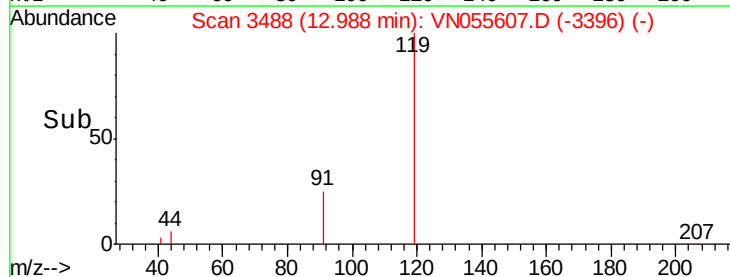
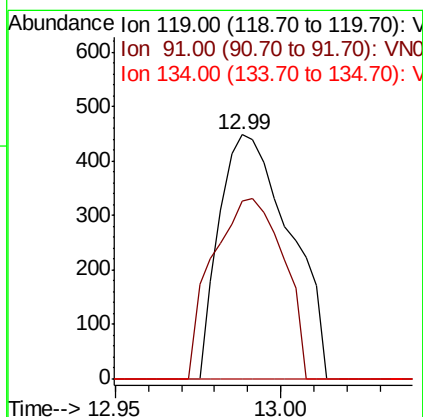
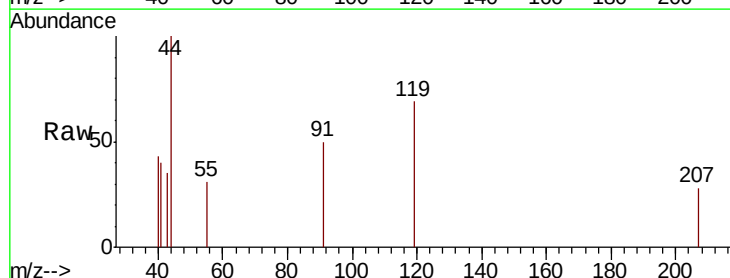
Instrument :
 MSVOA_N
 ClientSampleId :

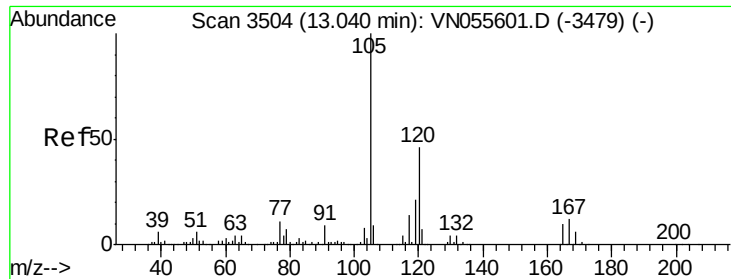
Tot Ion: 75 Resp: 95397
 Ion Ratio Lower Upper
 75 100
 53 0.0 65.1 97.7#
 89 0.0 36.4 54.6#



#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.99 min Scan# 3488
 Delta R.T. -0.00 min
 Lab File: VN055607.D
 Acq: 17 May 2019 14:03

Tgt Ion: 119 Resp: 663
 Ion Ratio Lower Upper
 119 100
 91 73.8 31.3 93.8
 134 0.0 13.2 39.6#

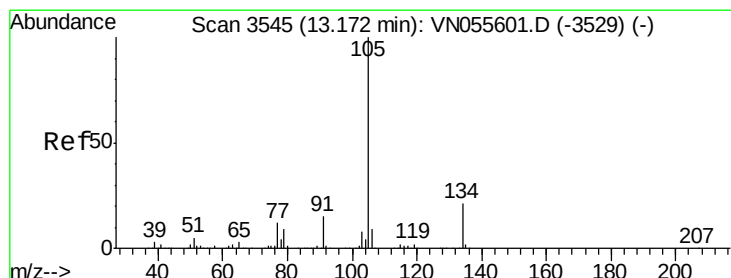
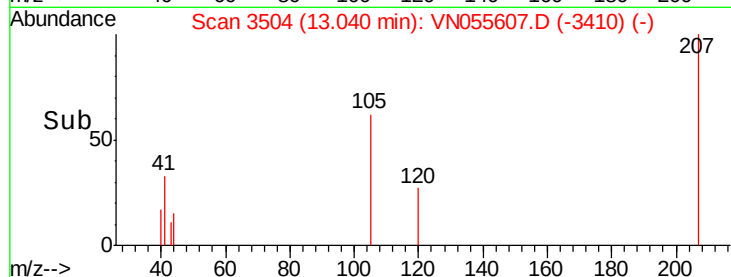
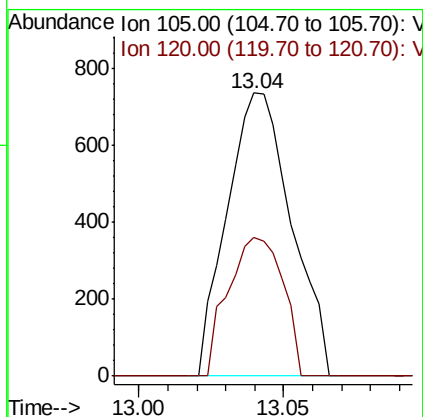
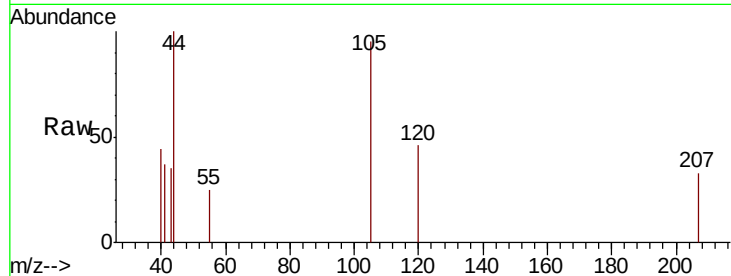




#84
 1,2,4-Trimethylbenzene
 Concen: Below Cal
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN055607.D
 Acq: 17 May 2019 14:03

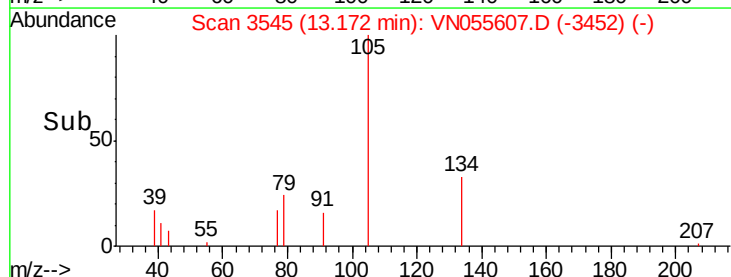
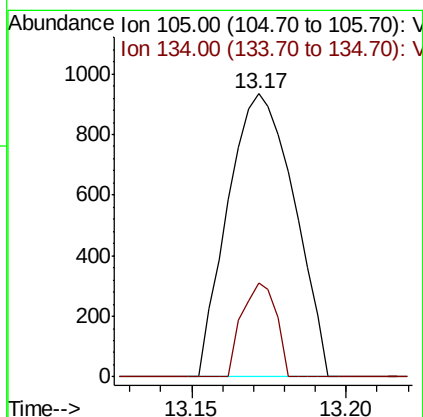
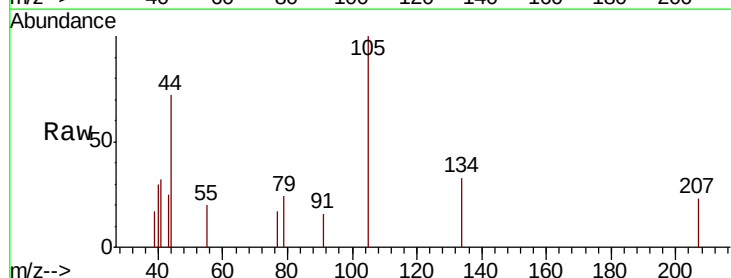
Instrument :
 MSVOA_N
 ClientSampled :

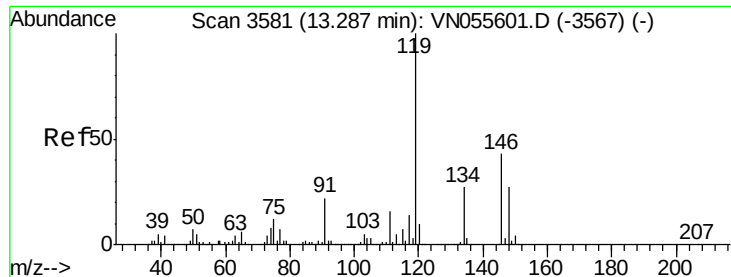
Tot Ion:105 Resp: 1134
 Ion Ratio Lower Upper
 105 100
 120 41.7 23.1 69.2



#85
 sec-Butylbenzene
 Concen: Below Cal
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN055607.D
 Acq: 17 May 2019 14:03

Tgt Ion:105 Resp: 1394
 Ion Ratio Lower Upper
 105 100
 134 17.1 10.3 30.9





#86

p-Isopropyltoluene

Concen: Below Cal

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN055607.D

Acq: 17 May 2019 14:03

Instrument :

MSVOA_N

ClientSampleId :

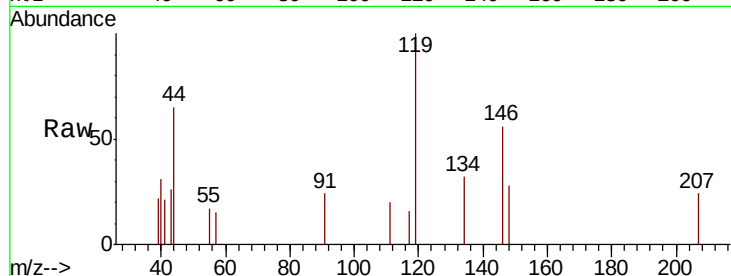
Tot Ion: 119 Resp: 1711

Ion Ratio Lower Upper

119 100

134 19.9 13.4 40.2

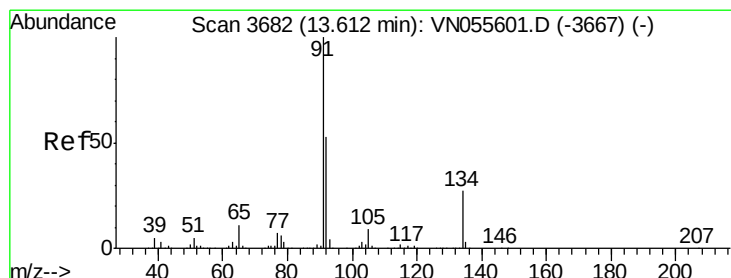
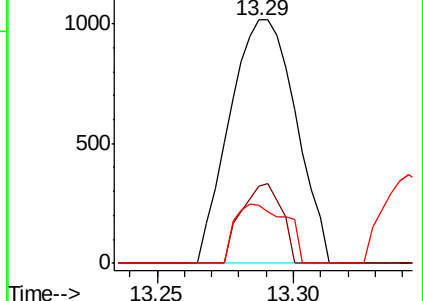
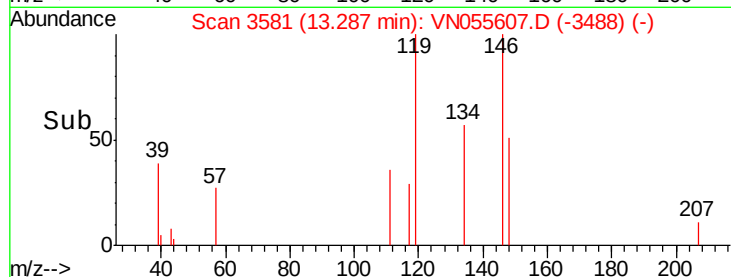
91 18.9 11.0 33.0



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#89

n-Butylbenzene

Concen: 0.205 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN055607.D

Acq: 17 May 2019 14:03

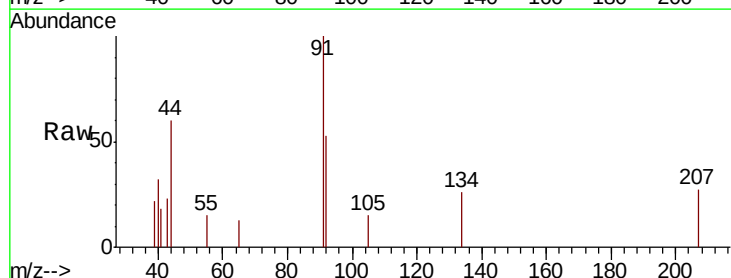
Tgt Ion: 91 Resp: 1987

Ion Ratio Lower Upper

91 100

92 47.9 26.4 79.0

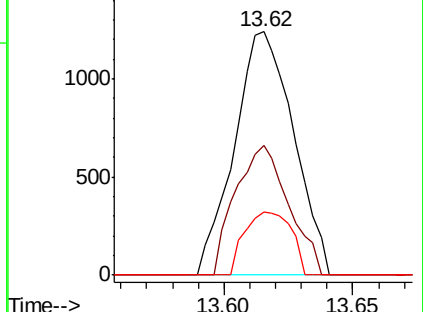
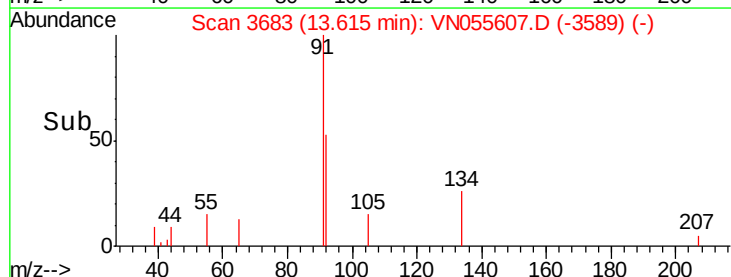
134 20.4 13.7 41.1

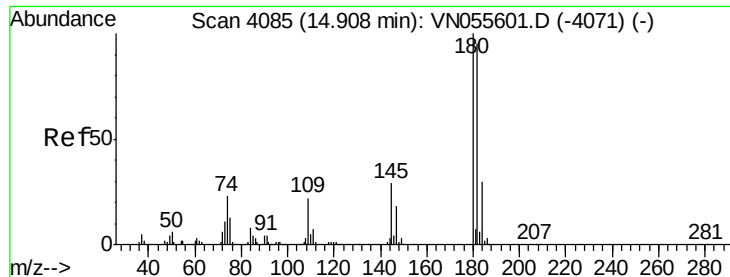


Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.00 (133.70 to 134.70): V

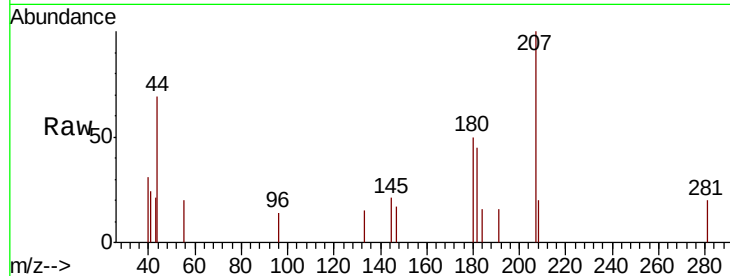




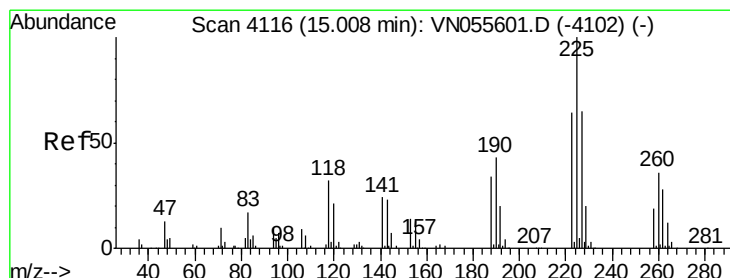
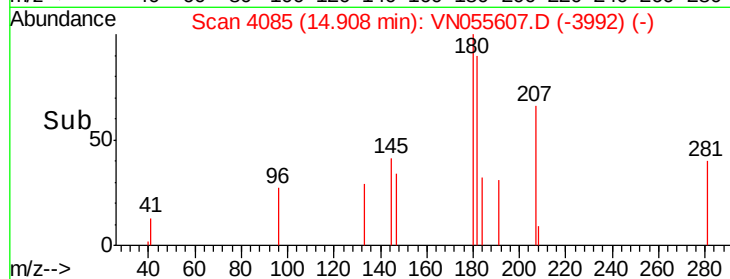
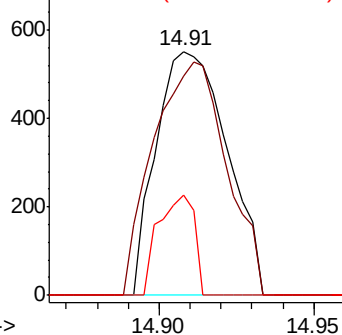
#93
 1,2,4-Trichlorobenzene
 Concen: 0.290 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN055607.D
 Acq: 17 May 2019 14:03

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 882
 Ion Ratio Lower Upper
 180 100
 182 98.8 47.9 143.6
 145 20.7 14.3 42.9

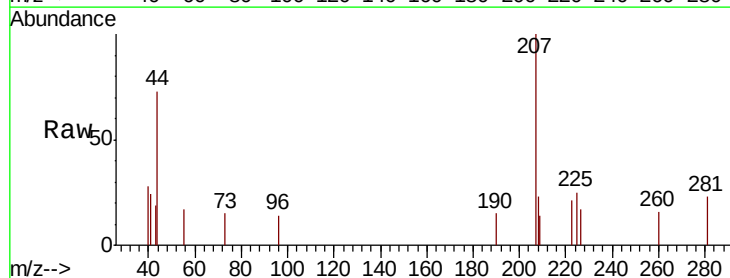


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

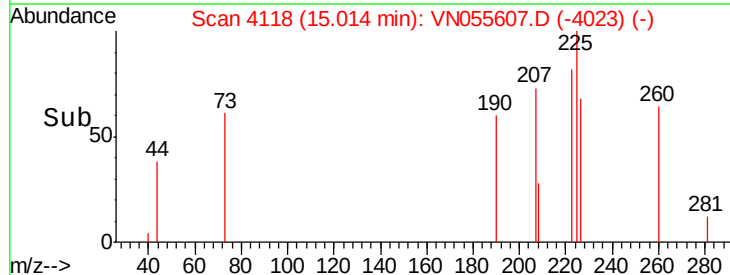
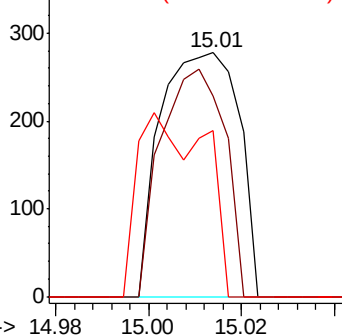


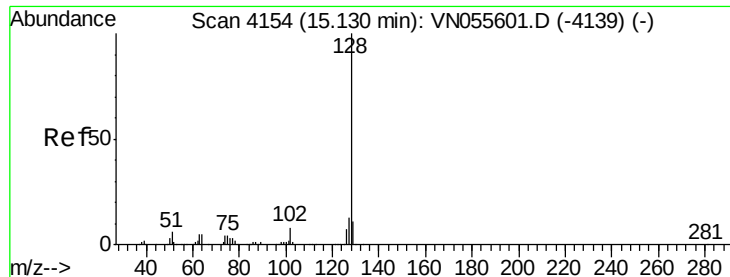
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4118
 Delta R.T. 0.01 min
 Lab File: VN055607.D
 Acq: 17 May 2019 14:03

Tgt Ion:225 Resp: 325
 Ion Ratio Lower Upper
 225 100
 223 76.0 31.6 94.7
 227 64.9 32.4 97.0



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 2.103 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055607.D

Acq: 17 May 2019 14:03

Instrument :

MSVOA_N

ClientSampled :

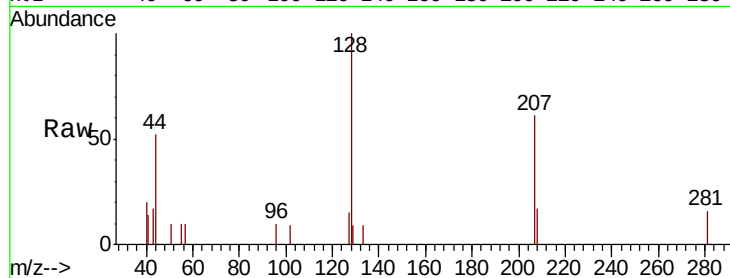
Tot Ion:128 Resp: 3231

Ion Ratio Lower Upper

128 100

127 11.1 10.2 15.4

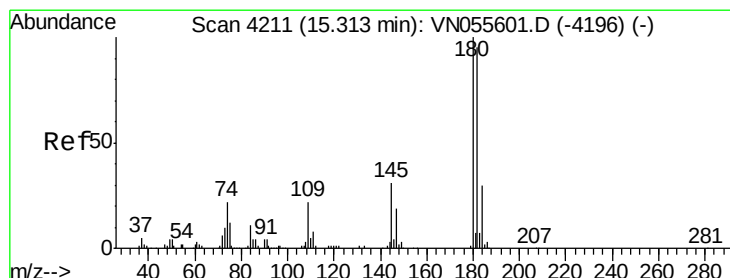
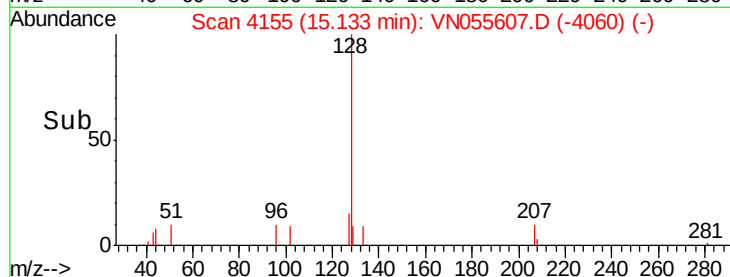
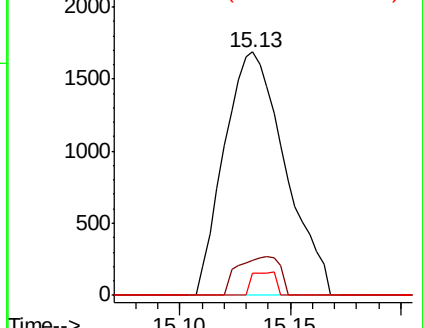
129 3.7 8.6 12.8#



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



#96

1,2,3-Trichlorobenzene

Concen: 0.352 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN055607.D

Acq: 17 May 2019 14:03

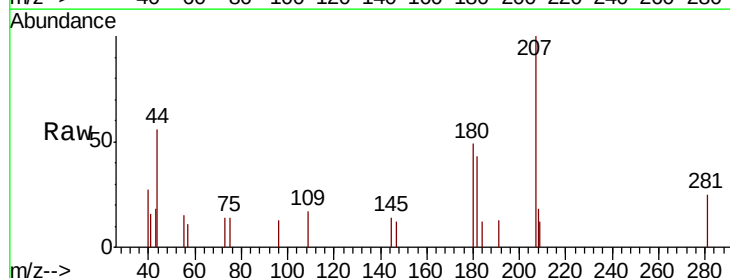
Tgt Ion:180 Resp: 1119

Ion Ratio Lower Upper

180 100

182 96.7 47.9 143.6

145 22.2 15.4 46.1



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

