

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072219\
 Data File : VN056857.D
 Acq On : 22 Jul 2019 16:33
 Operator : JC/SP
 Sample : VN0722WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

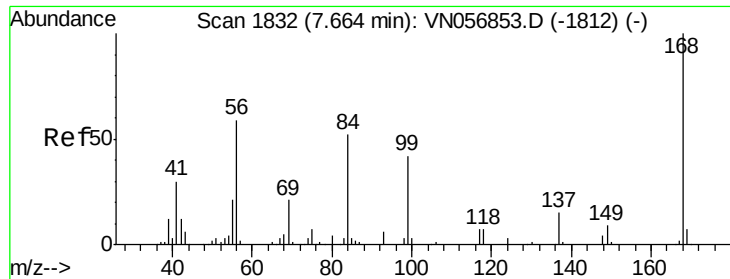
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0722WBL01

Quant Time: Jul 23 02:10:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072219W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 23 01:46:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	262539	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	475429	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	503817	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	158875	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	152439	54.44	ug/l	0.00
Spiked Amount 50.000			Recovery	=	108.88%	
35) Dibromofluoromethane	7.59	113	143357	47.57	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.14%	
50) Toluene-d8	10.09	98	599086	51.96	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.92%	
62) 4-Bromofluorobenzene	12.40	95	208889	55.37	ug/l	0.00
Spiked Amount 50.000			Recovery	=	110.74%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.57	94	1267	0.619	ug/l	81
11) Tert butyl alcohol	4.74	59	5310	13.348	ug/l #	72
16) Acetone	3.82	43	322	0.319	ug/l #	41
17) Carbon Disulfide	4.04	76	1837	0.264	ug/l #	75
18) Methyl Acetate	4.33	43	4073	Below Cal	#	69
31) Cyclohexane	7.67	56	4342	0.912	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	16758	3.822	ug/l #	49
38) Carbon Tetrachloride	7.66	117	23688	5.675	ug/l #	16
43) Isopropyl Acetate	8.32	43	10004	1.646	ug/l #	58
71) Bromoform	12.40	173	1433	0.524	ug/l #	1
73) Isopropylbenzene	12.25	105	294	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	94600	28.731	ug/l #	100
79) 2-Chlorotoluene	12.68	91	166	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.73	105	433	Below Cal	#	49
81) trans-1,4-Dichloro-2-buten	12.40	75	94600	92.022	ug/l #	13
83) tert-Butylbenzene	12.99	119	137	Below Cal	#	28
93) 1,2,4-Trichlorobenzene	14.91	180	1074	4.458	ug/l	77
94) Hexachlorobutadiene	15.00	225	212	Below Cal	#	18
95) Naphthalene	15.13	128	1437	3.798	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.31	180	1023	2.788	ug/l #	77

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

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ALS Vial : 10 Sample Multiplier: 1



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN056857.D

Acq: 22 Jul 2019 16:33

Instrument :

MSVOA_N

ClientSampleId :

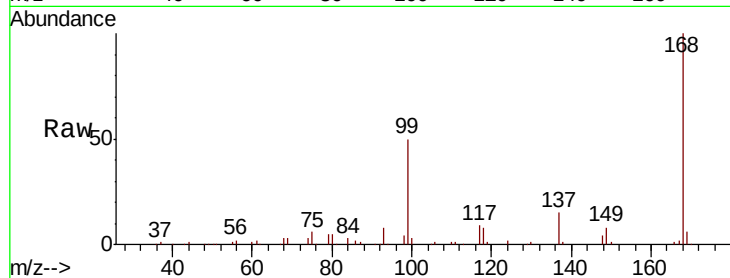
VN0722WBL01

Tot Ion:168 Resp: 262539

Ion Ratio Lower Upper

168 100

99 50.3 40.9 61.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

120000

100000

80000

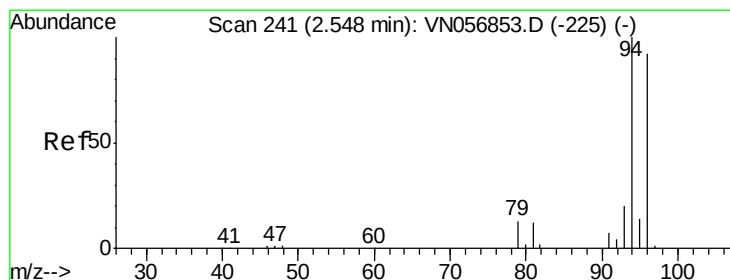
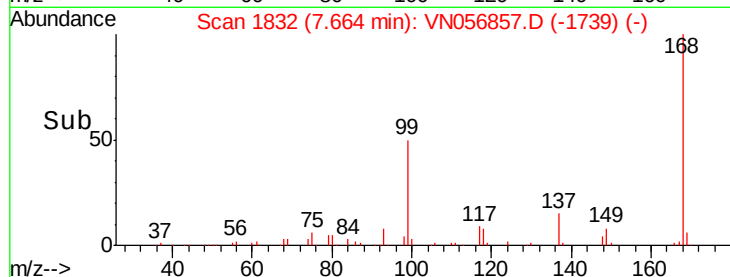
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.619 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.02 min

Lab File: VN056857.D

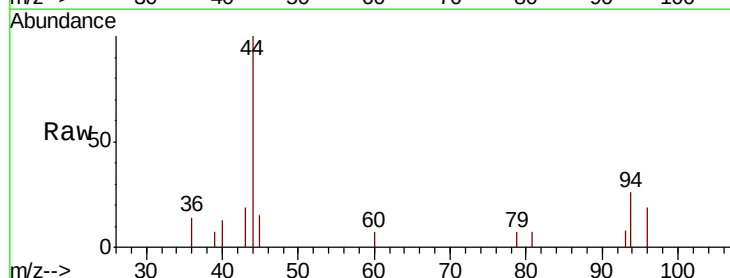
Acq: 22 Jul 2019 16:33

Tgt Ion: 94 Resp: 1267

Ion Ratio Lower Upper

94 100

96 73.8 73.6 110.4



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

2.57

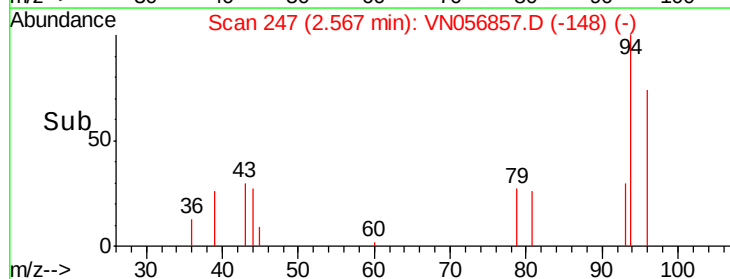
600

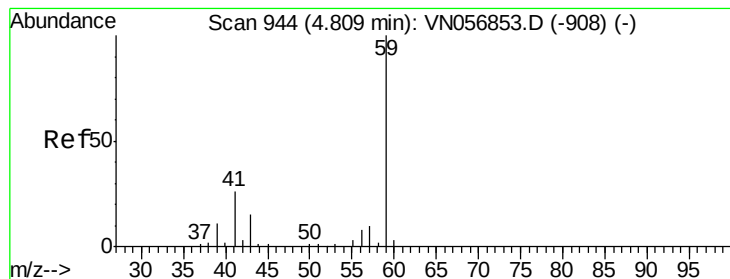
400

200

0

Time-->



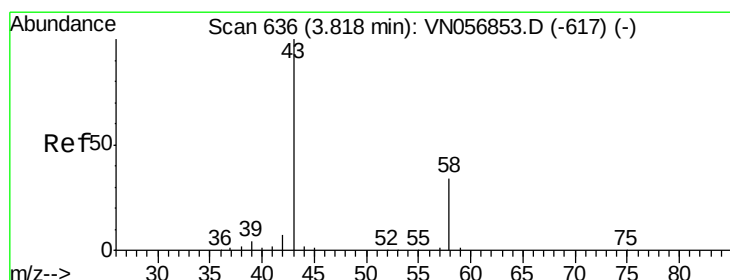
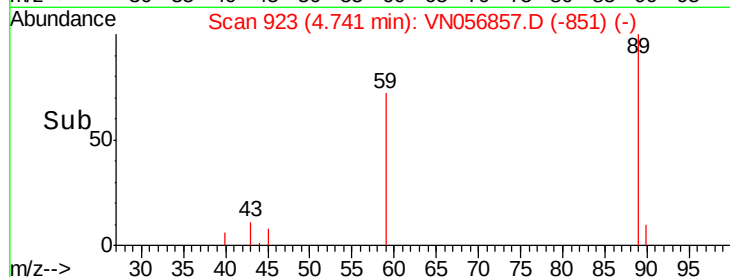
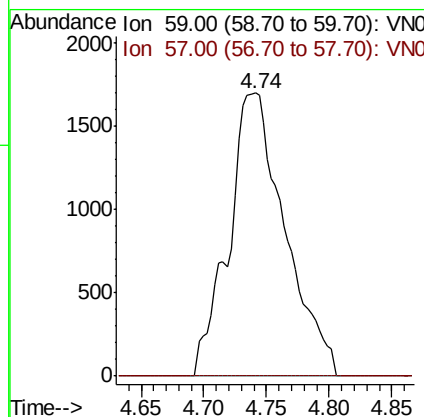
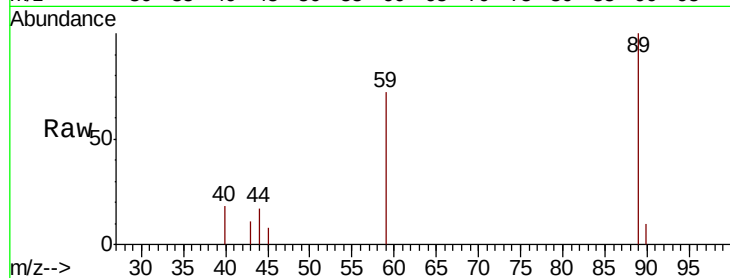


#11

Tert butyl alcohol
 Concen: 13.348 ug/l
 RT: 4.74 min Scan# 923
 Delta R.T. -0.07 min
 Lab File: VN056857.D
 Acq: 22 Jul 2019 16:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0722WBL01

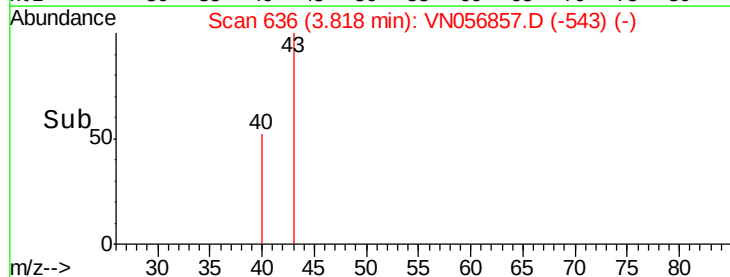
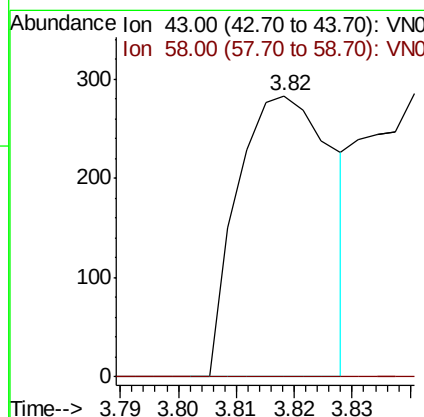
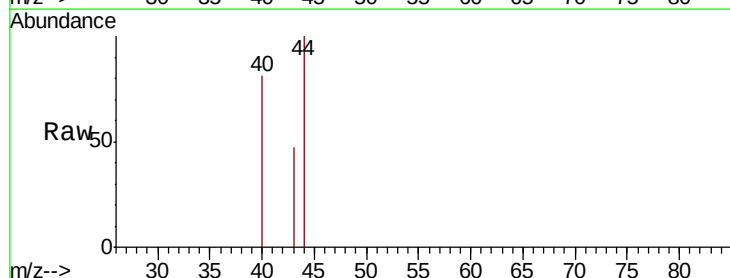
Tot Ion: 59 Resp: 5310
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.4#

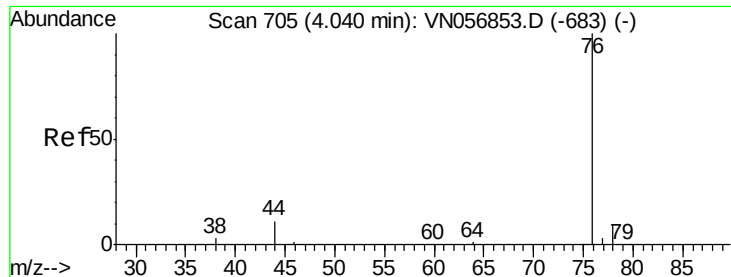


#16

Acetone
 Concen: 0.319 ug/l
 RT: 3.82 min Scan# 636
 Delta R.T. -0.00 min
 Lab File: VN056857.D
 Acq: 22 Jul 2019 16:33

Tgt Ion: 43 Resp: 322
 Ion Ratio Lower Upper
 43 100
 58 0.0 27.3 40.9#





#17

Carbon Disulfide

Concen: 0.264 ug/l

RT: 4.04 min Scan# 705

Delta R.T. -0.00 min

Lab File: VN056857.D

Acq: 22 Jul 2019 16:33

Instrument :

MSVOA_N

ClientSampleId :

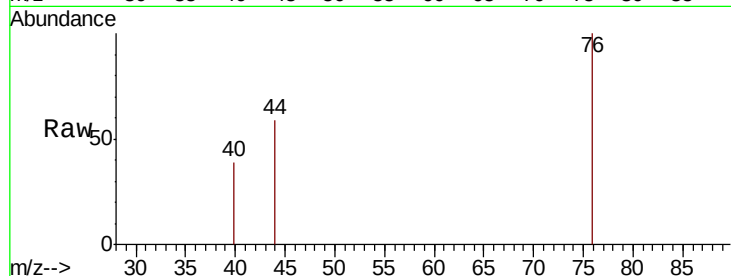
VN0722WBL01

Tot Ion: 76 Resp: 1837

Ion Ratio Lower Upper

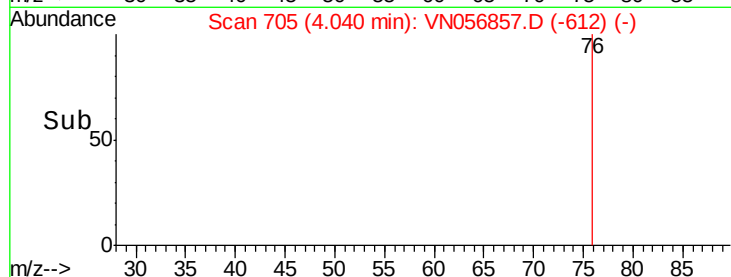
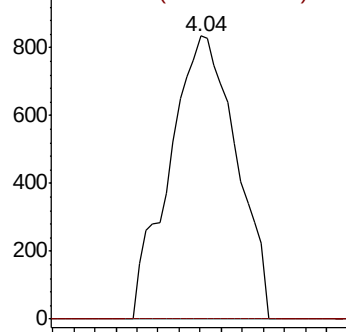
76 100

78 0.0 7.2 10.8#

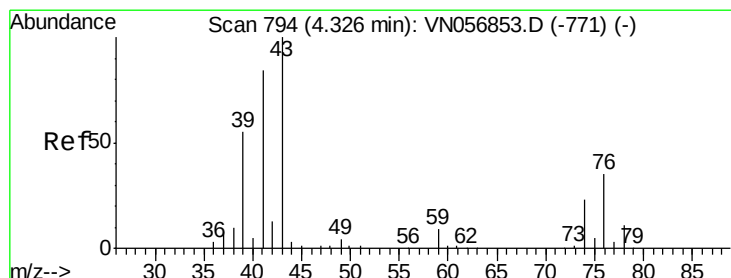


Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



Time-->



#18

Methyl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN056857.D

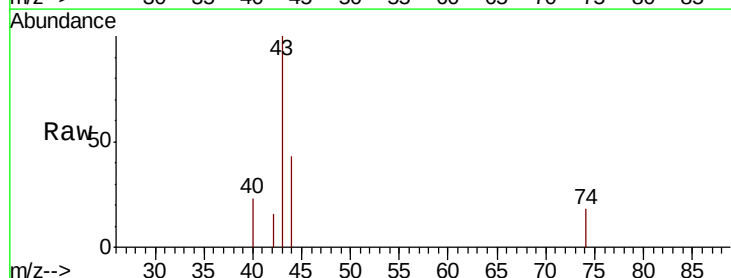
Acq: 22 Jul 2019 16:33

Tgt Ion: 43 Resp: 4073

Ion Ratio Lower Upper

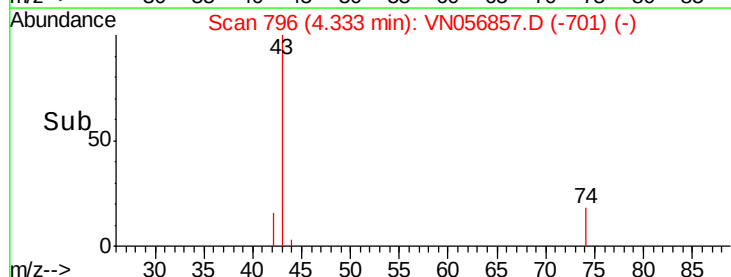
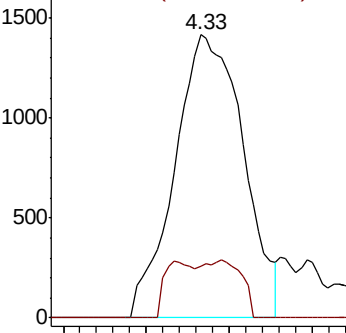
43 100

74 8.5 19.0 28.4#

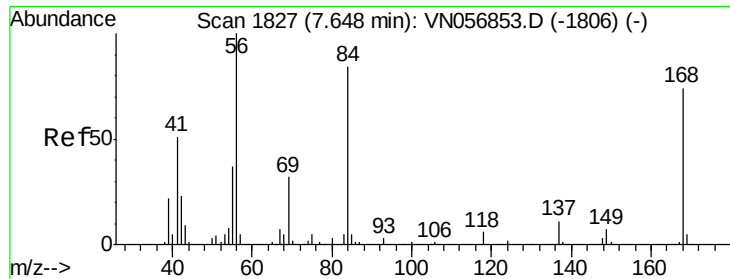


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0



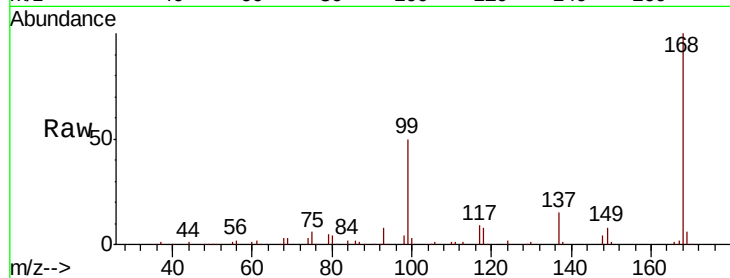
Time-->



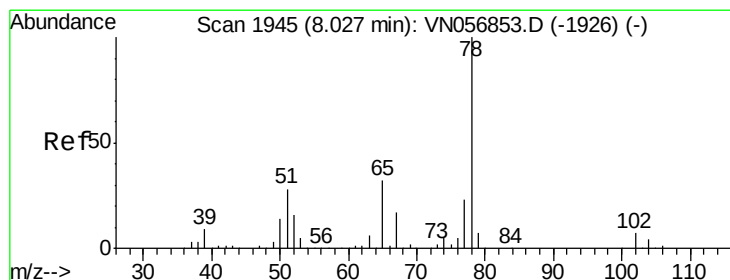
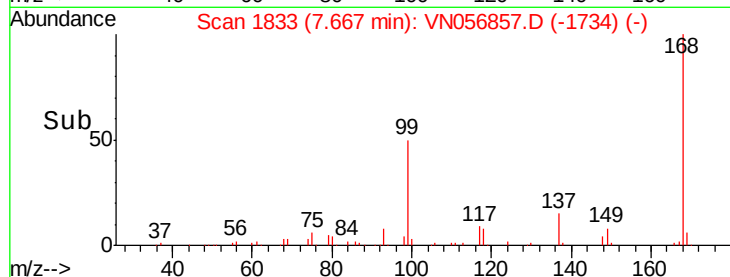
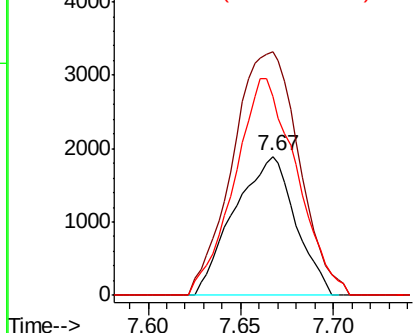
#31
Cyclohexane
Concen: 0.912 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.02 min
Lab File: VN056857.D
Acq: 22 Jul 2019 16:33

Instrument :
MSVOA_N
ClientSampleId :
VN0722WBL01

Tot Ion: 56 Resp: 4342
Ion Ratio Lower Upper
56 100
69 175.2 25.5 38.3#
84 143.4 67.3 100.9#

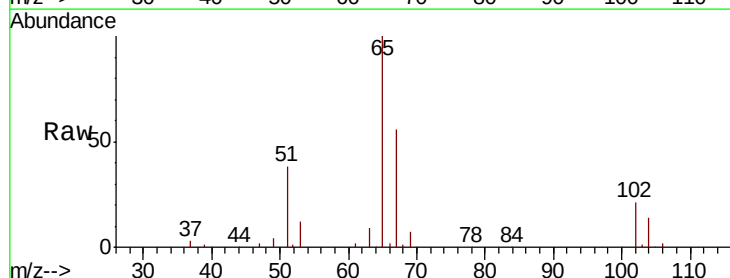


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

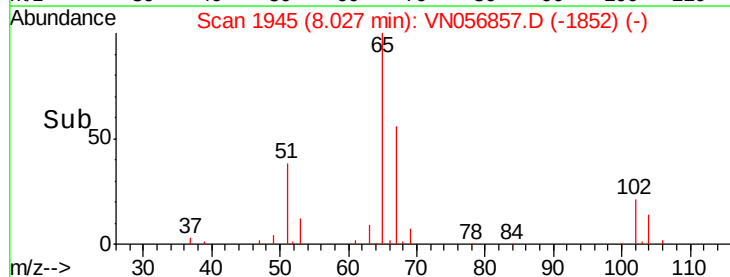
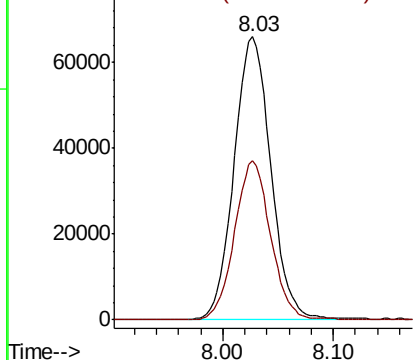


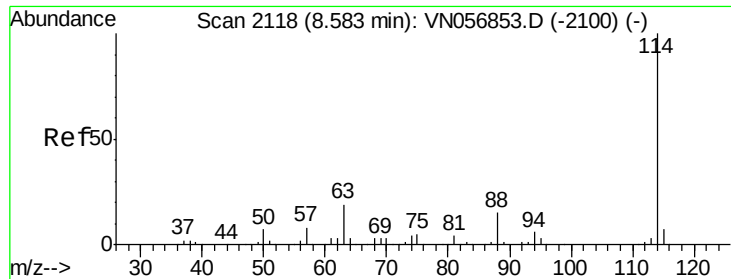
#33
1,2-Dichloroethane-d4
Concen: 54.435 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN056857.D
Acq: 22 Jul 2019 16:33

Tgt Ion: 65 Resp: 152439
Ion Ratio Lower Upper
65 100
67 55.2 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

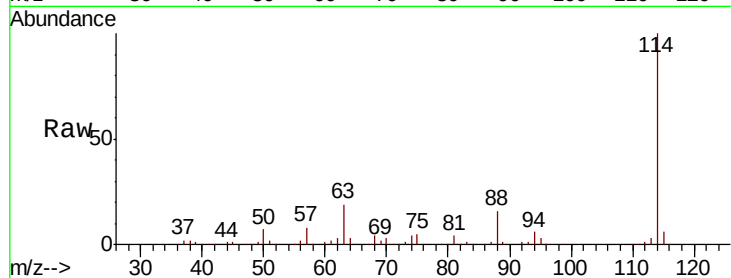




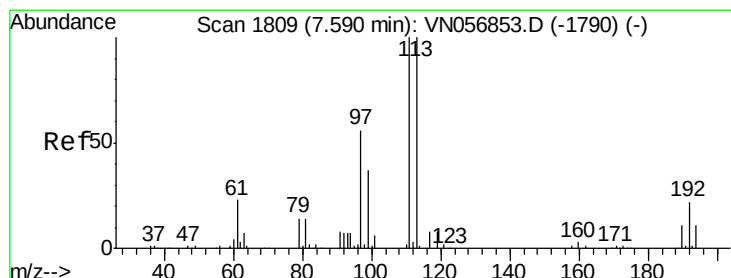
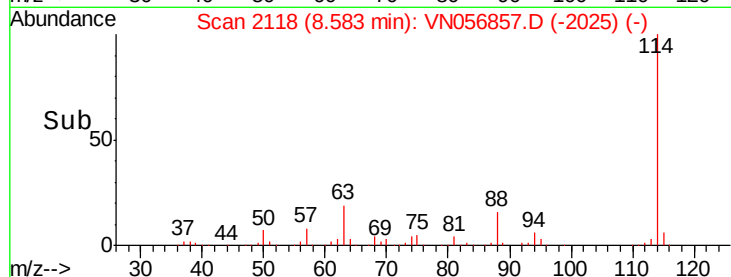
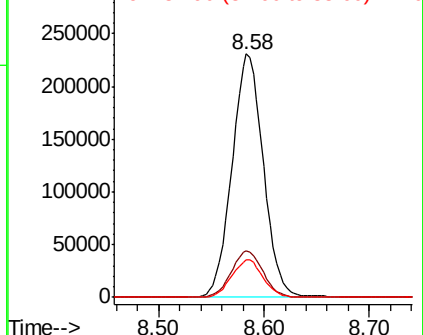
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN056857.D
 Acq: 22 Jul 2019 16:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0722WBL01

Tot Ion:114 Resp: 475429
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 37.8
 88 15.6 0.0 31.0

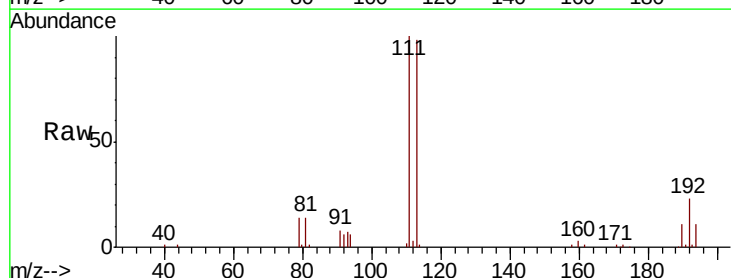


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

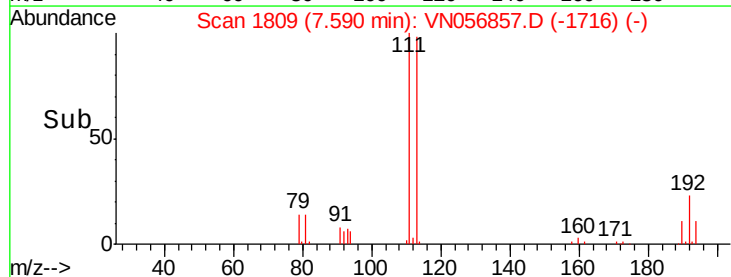
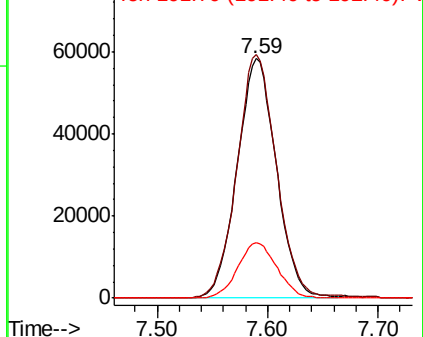


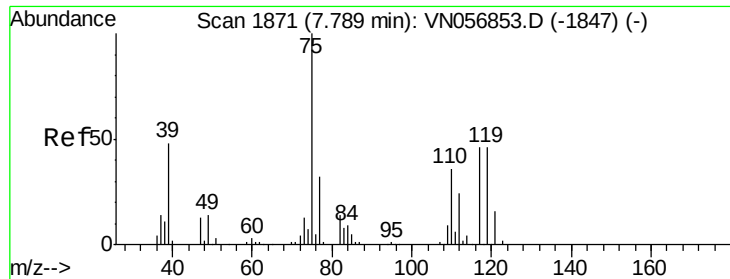
#35
 Dibromofluoromethane
 Concen: 47.573 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN056857.D
 Acq: 22 Jul 2019 16:33

Tgt Ion:113 Resp: 143357
 Ion Ratio Lower Upper
 113 100
 111 102.0 81.9 122.9
 192 23.2 18.5 27.7



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

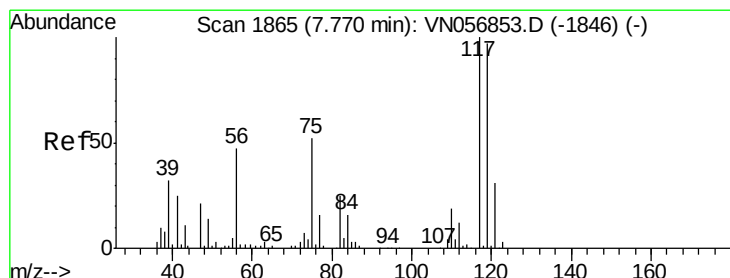
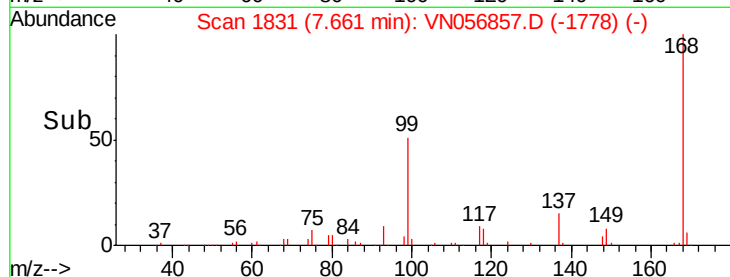
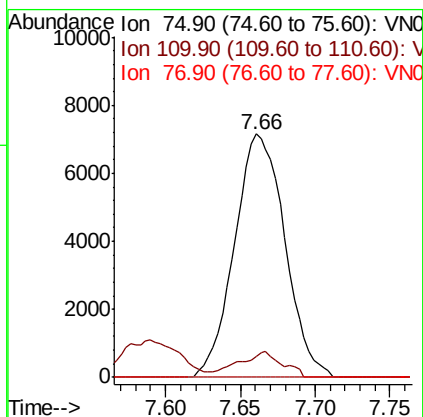
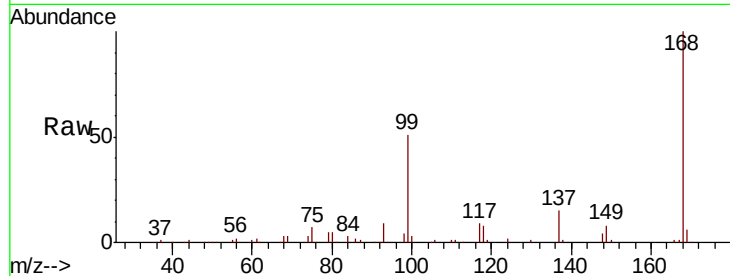




#36
 1,1-Dichloropropene
 Concen: 3.822 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN056857.D
 Acq: 22 Jul 2019 16:33

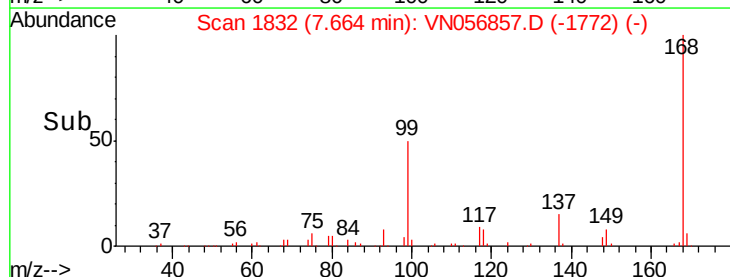
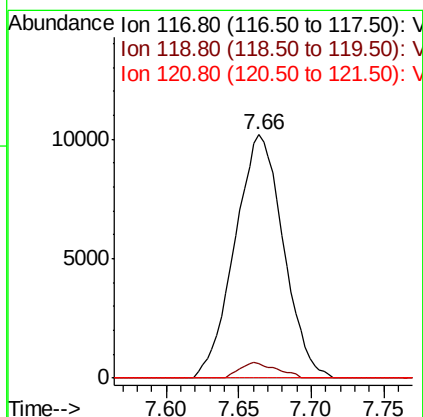
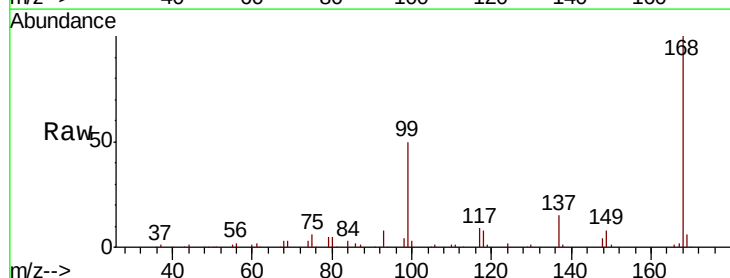
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0722WBL01

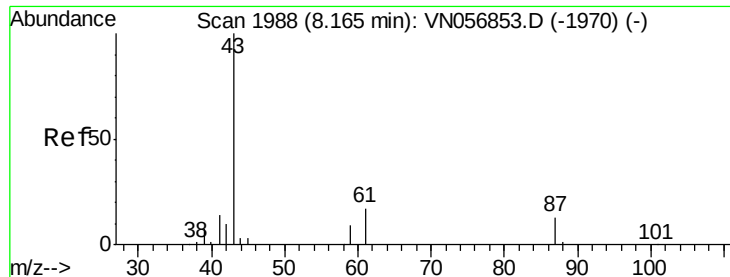
Tot Ion	75	Resp	16758
Ion Ratio	Lower	Upper	
75	100		
110	9.2	17.9	53.7#
77	0.0	25.0	37.6#



#38
 Carbon Tetrachloride
 Concen: 5.675 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN056857.D
 Acq: 22 Jul 2019 16:33

Tgt Ion	117	Resp	23688
Ion Ratio	Lower	Upper	
117	100		
119	6.0	77.2	115.8#
121	0.0	24.5	36.7#





#43

Isopropyl Acetate

Concen: 1.646 ug/l

RT: 8.32 min Scan# 2035

Delta R.T. 0.15 min

Lab File: VN056857.D

Acq: 22 Jul 2019 16:33

Instrument :

MSVOA_N

ClientSampleId :

VN0722WBL01

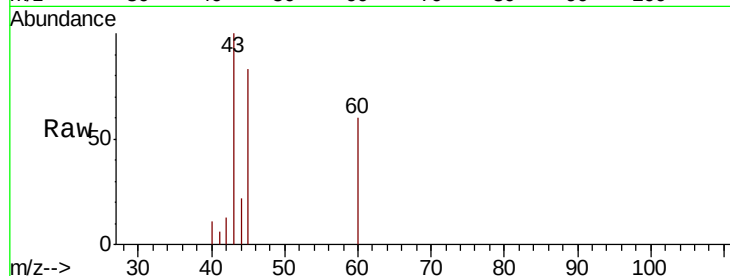
Tot Ion: 43 Resp: 10004

Ion Ratio Lower Upper

43 100

61 0.0 17.8 26.6#

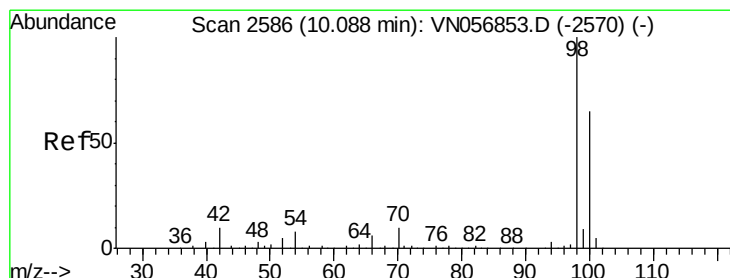
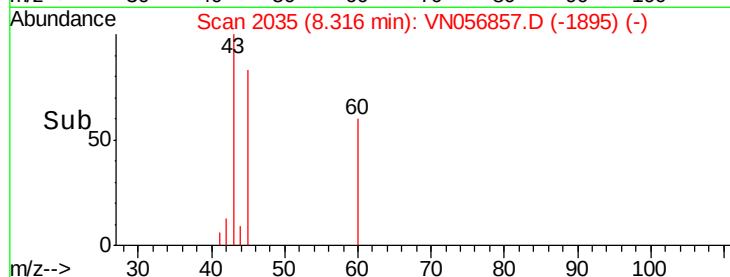
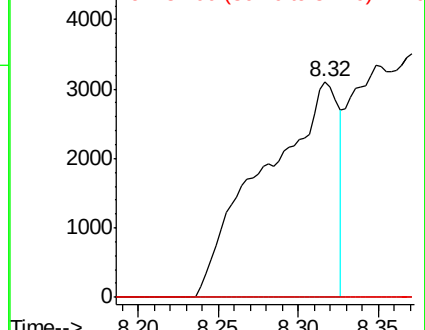
87 0.0 11.0 16.4#



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: 51.965 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN056857.D

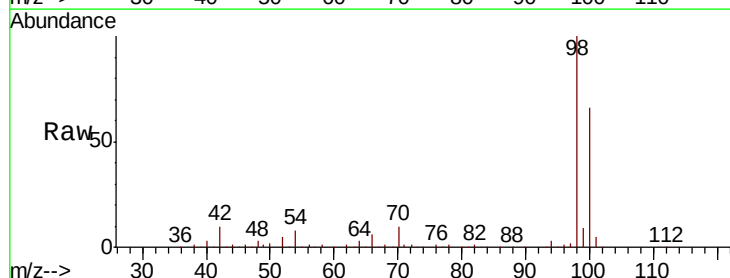
Acq: 22 Jul 2019 16:33

Tgt Ion: 98 Resp: 599086

Ion Ratio Lower Upper

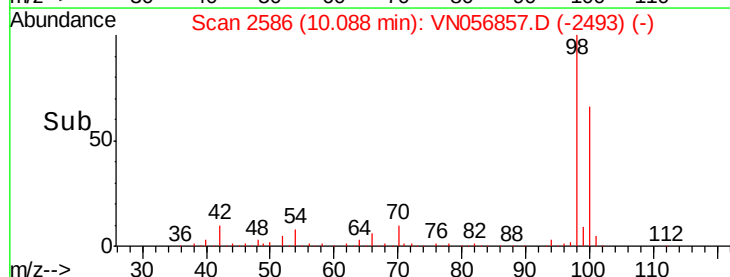
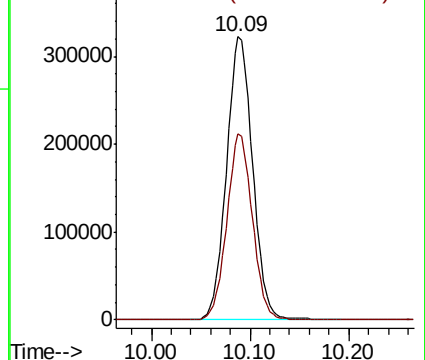
98 100

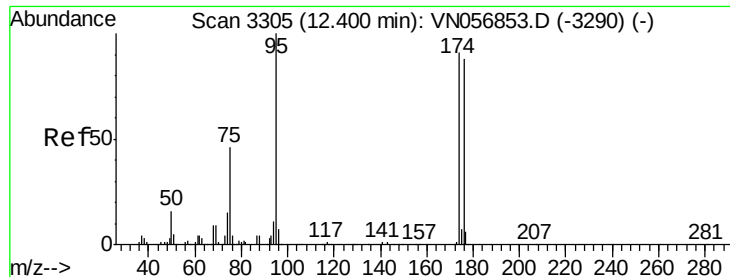
100 64.5 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#62

4-Bromofluorobenzene

Concen: 55.366 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056857.D

Acq: 22 Jul 2019 16:33

Instrument :

MSVOA_N

ClientSampleId :

VN0722WBL01

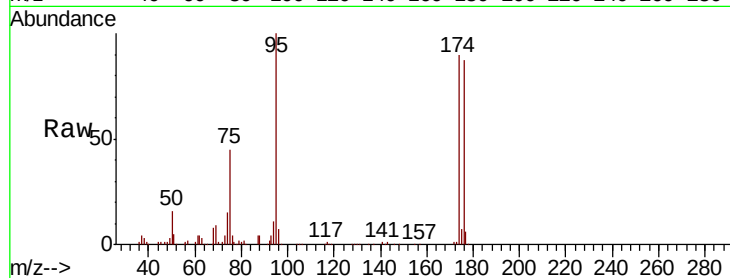
Tot Ion: 95 Resp: 208889

Ion Ratio Lower Upper

95 100

174 90.2 0.0 183.4

176 88.0 0.0 175.8



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0

12.40

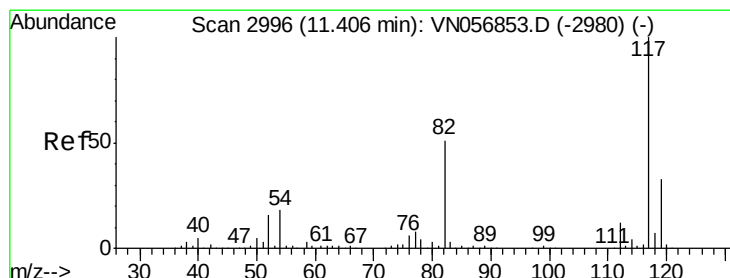
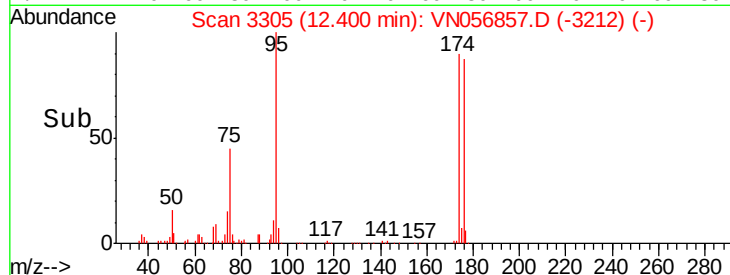
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN056857.D

Acq: 22 Jul 2019 16:33

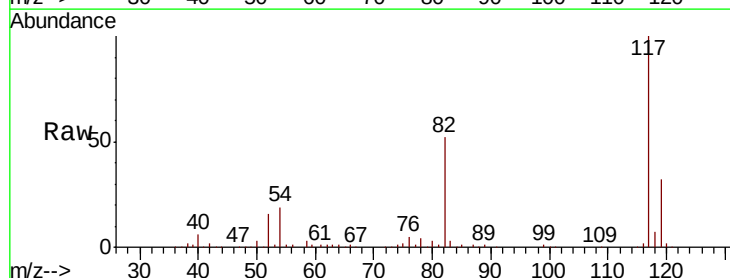
Tgt Ion: 117 Resp: 503817

Ion Ratio Lower Upper

117 100

82 52.1 41.2 61.8

119 32.5 26.4 39.6



Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0

11.41

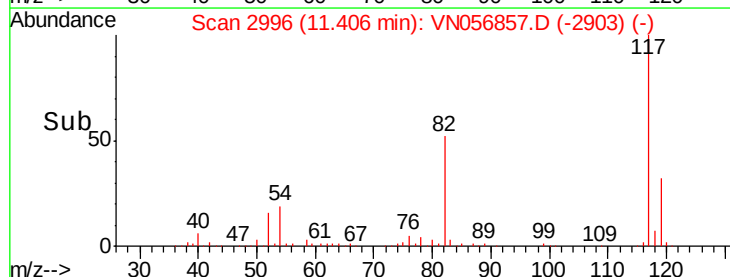
300000

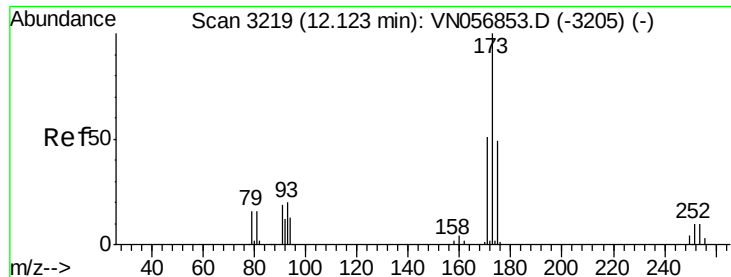
200000

100000

0

Time--> 11.30 11.40 11.50





#71

Bromoform

Concen: 0.524 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.28 min

Lab File: VN056857.D

Acq: 22 Jul 2019 16:33

Instrument :

MSVOA_N

ClientSampled :

VN0722WBL01

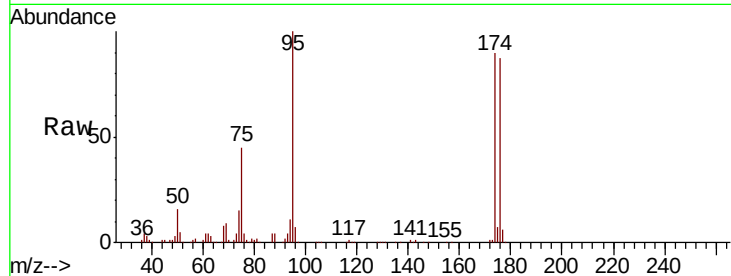
Tot Ion:173 Resp: 1433

Ion Ratio Lower Upper

173 100

175 778.2 24.1 72.3#

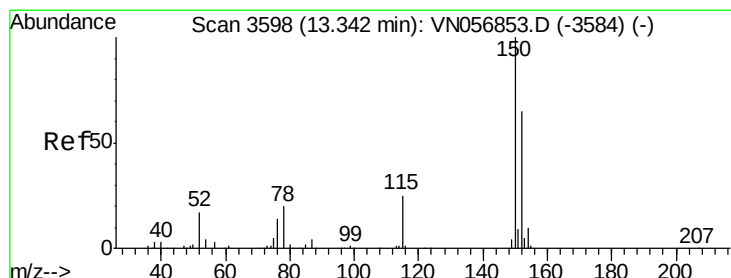
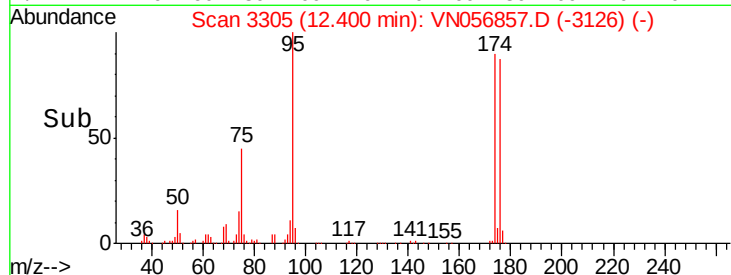
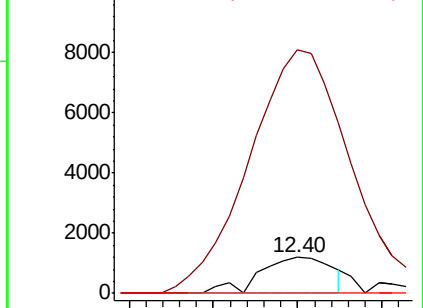
254 0.0 0.0 0.0



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: VN056857.D

Acq: 22 Jul 2019 16:33

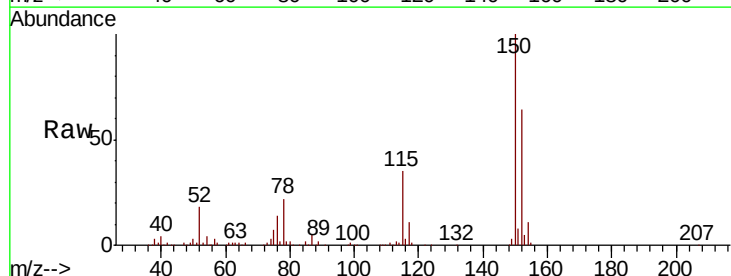
Tgt Ion:152 Resp: 158875

Ion Ratio Lower Upper

152 100

115 55.1 27.6 82.7

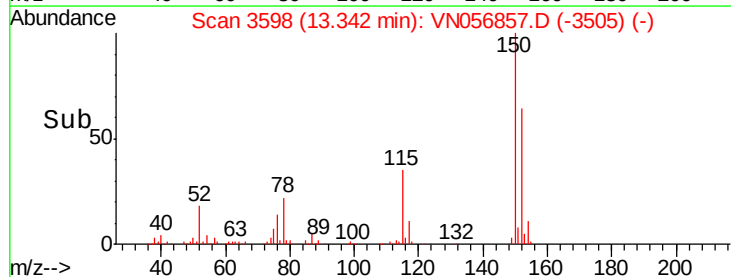
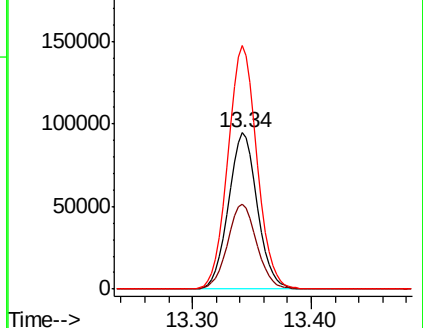
150 156.5 0.0 343.0

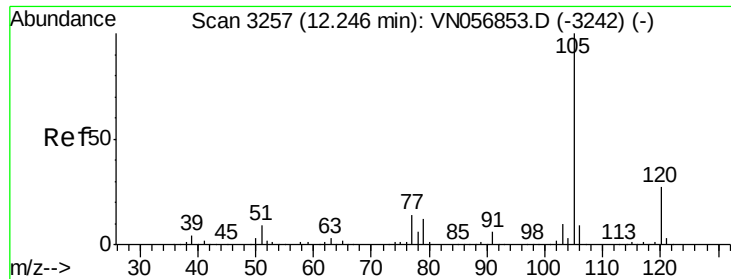


Abundance Ion 151.90 (151.60 to 152.60): V

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: VN056857.D

Acq: 22 Jul 2019 16:33

Instrument :

MSVOA_N

ClientSampled :

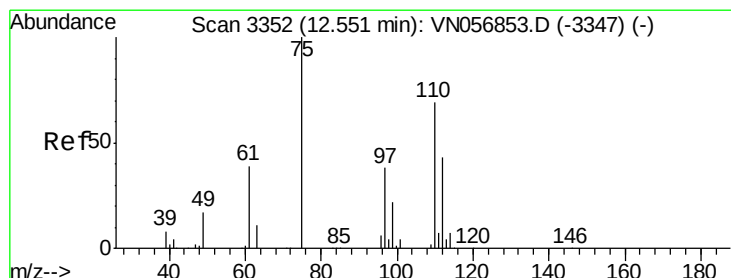
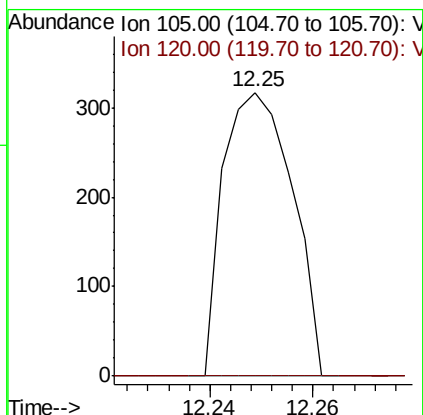
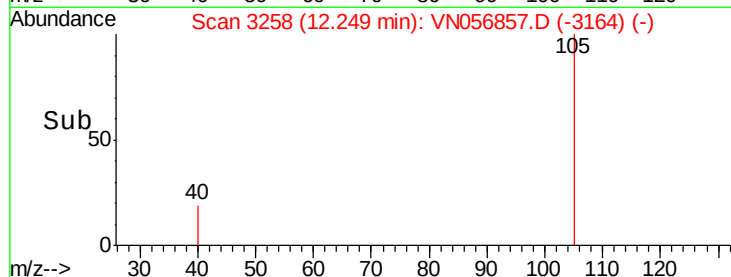
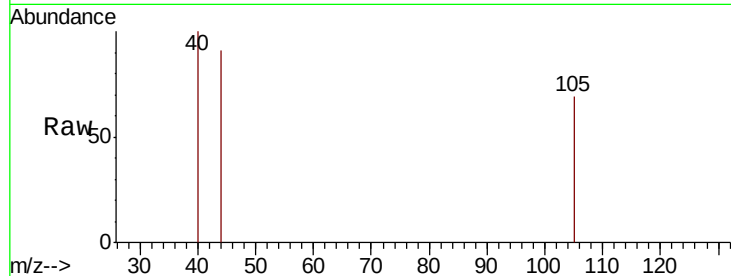
VN0722WBL01

Tot Ion:105 Resp: 294

Ion Ratio Lower Upper

105 100

120 0.0 13.4 40.2#



#76

1,2,3-Trichloropropane

Concen: 28.731 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056857.D

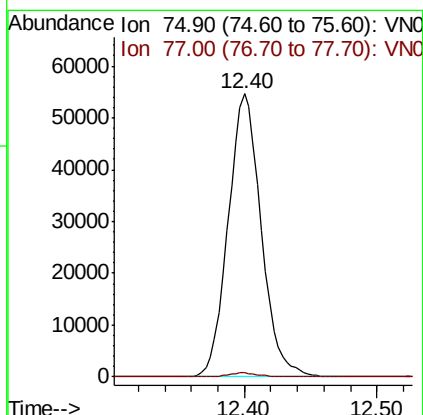
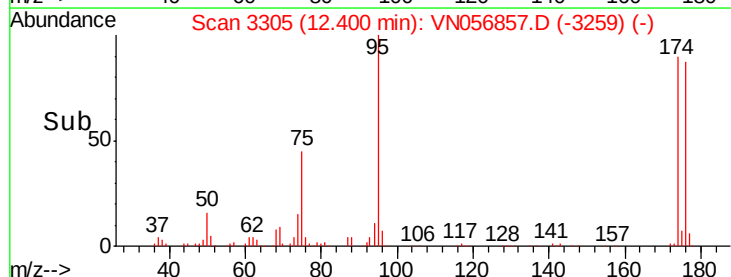
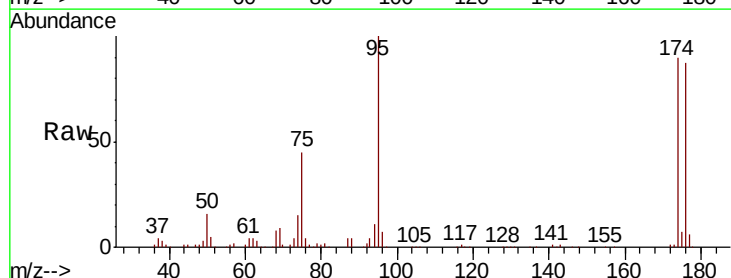
Acq: 22 Jul 2019 16:33

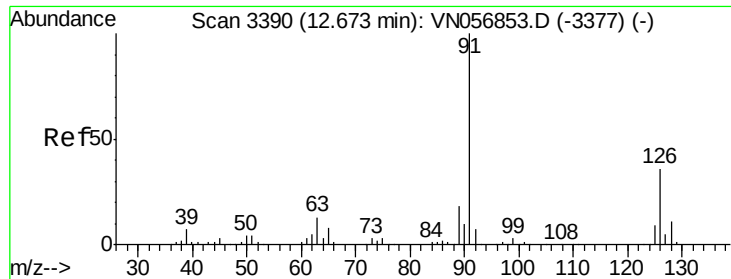
Tgt Ion: 75 Resp: 94600

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN056857.D

Acq: 22 Jul 2019 16:33

Instrument :

MSVOA_N

ClientSampled :

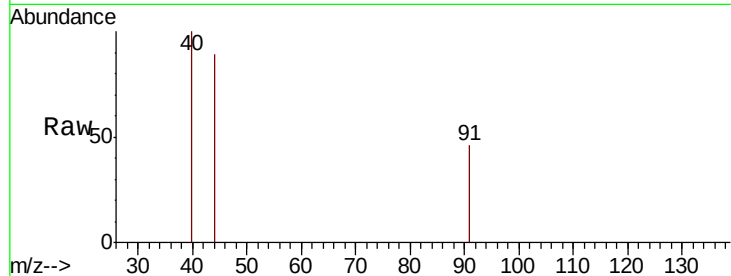
VN0722WBL01

Tot Ion: 91 Resp: 166

Ion Ratio Lower Upper

91 100

126 0.0 17.8 53.5#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

12.68

150

100

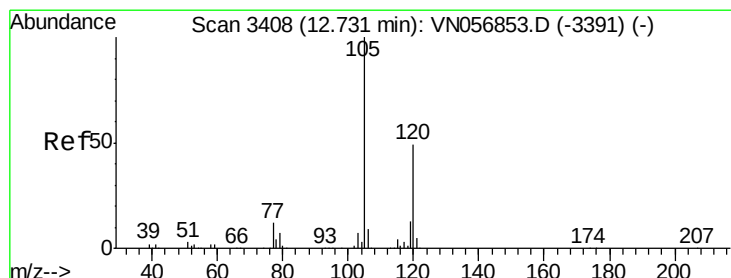
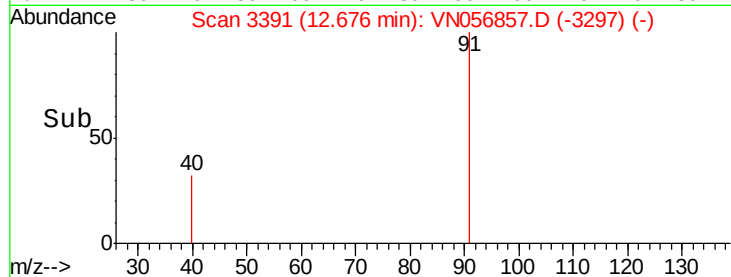
50

0

12.66

12.68

Time-->



#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN056857.D

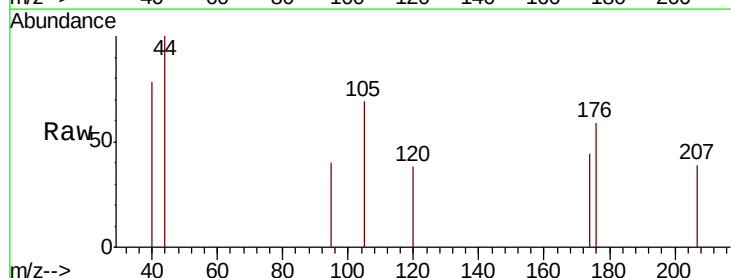
Acq: 22 Jul 2019 16:33

Tgt Ion: 105 Resp: 433

Ion Ratio Lower Upper

105 100

120 14.8 24.7 74.1#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.73

300

200

100

0

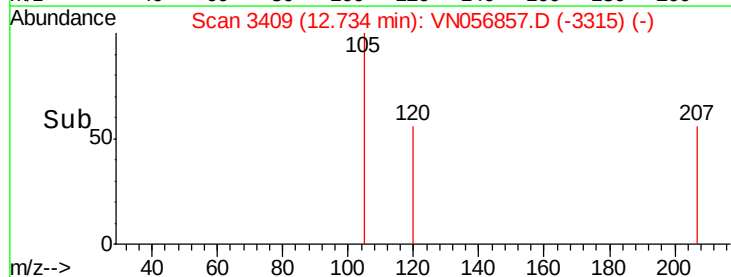
12.70

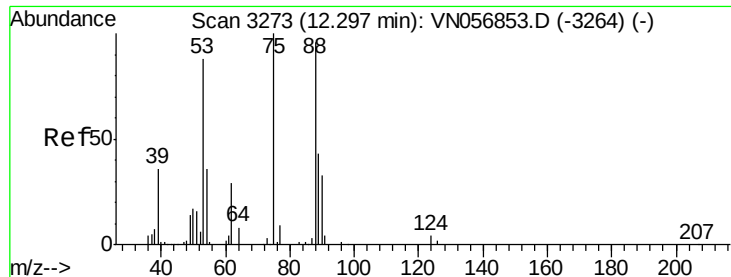
12.72

12.74

12.76

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 92.022 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056857.D

Acq: 22 Jul 2019 16:33

Instrument :

MSVOA_N

ClientSampled :

VN0722WBL01

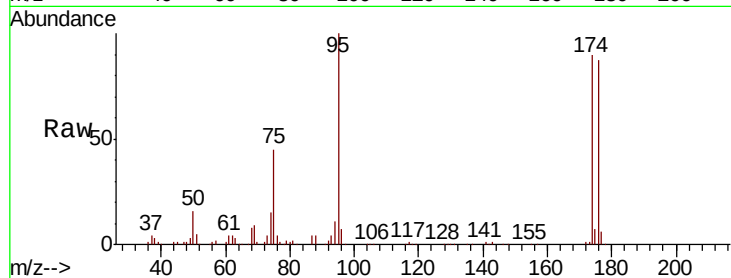
Tot Ion: 75 Resp: 94600

Ion Ratio Lower Upper

75 100

53 0.0 72.3 108.5#

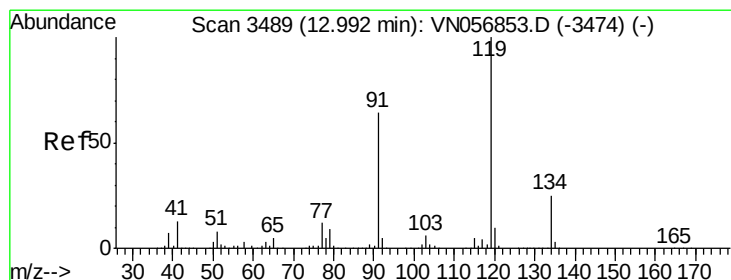
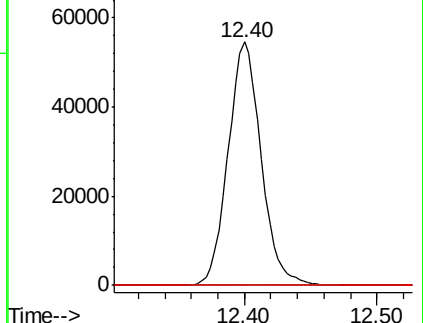
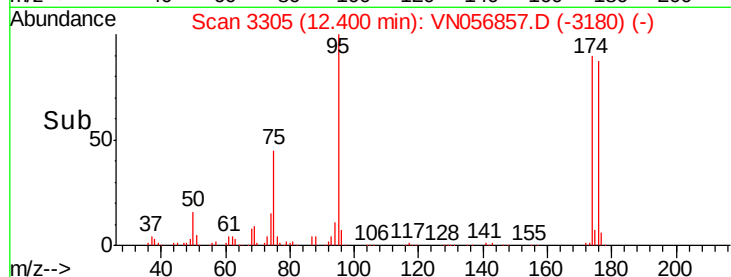
89 0.0 36.2 54.4#



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



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN056857.D

Acq: 22 Jul 2019 16:33

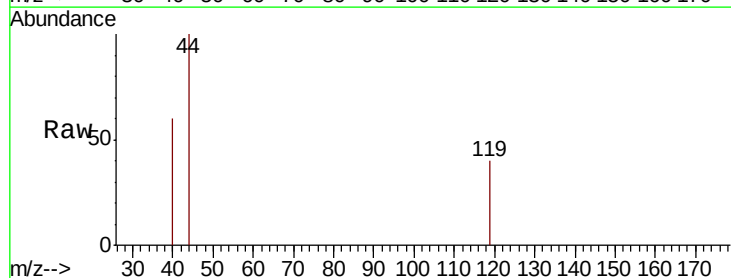
Tgt Ion: 119 Resp: 137

Ion Ratio Lower Upper

119 100

91 0.0 31.5 94.5#

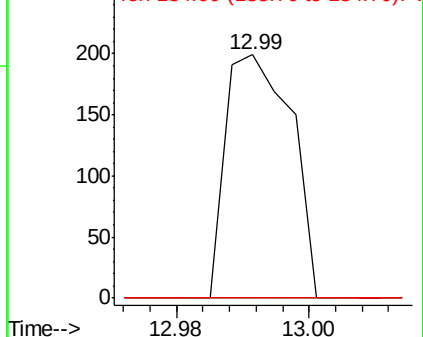
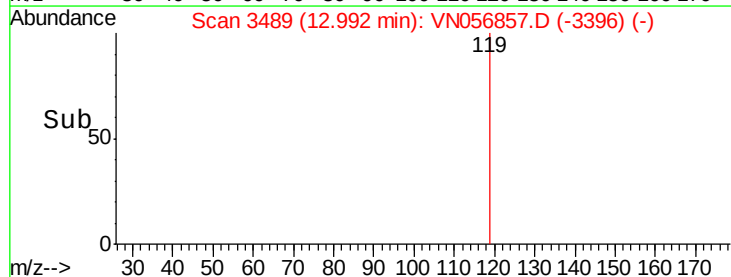
134 0.0 12.2 36.6#

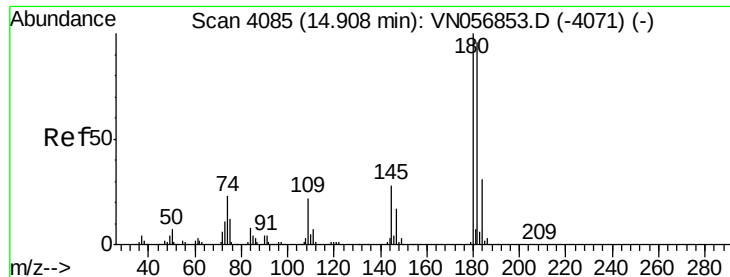


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN0

Ion 134.00 (133.70 to 134.70): V

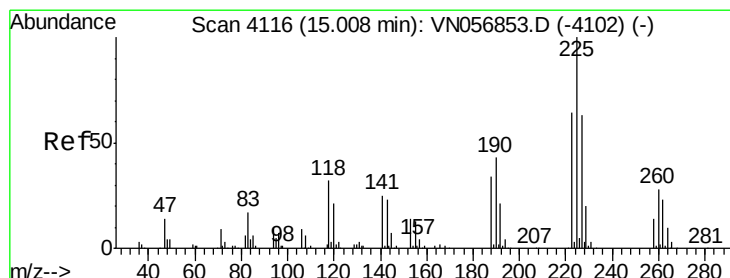
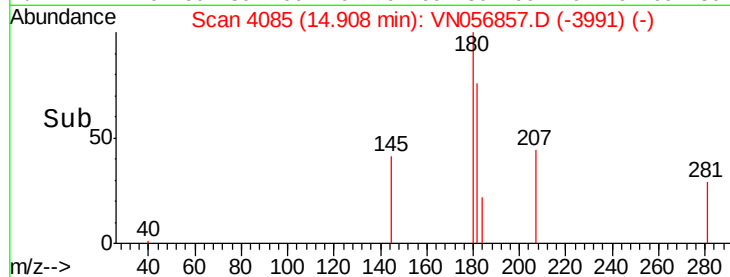
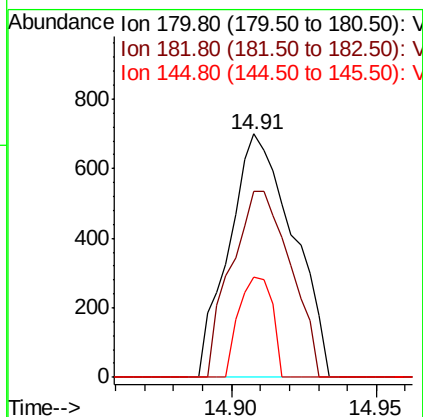
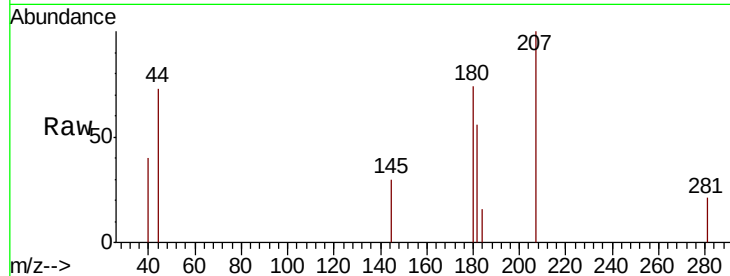




#93
 1,2,4-Trichlorobenzene
 Concen: 4.458 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN056857.D
 Acq: 22 Jul 2019 16:33

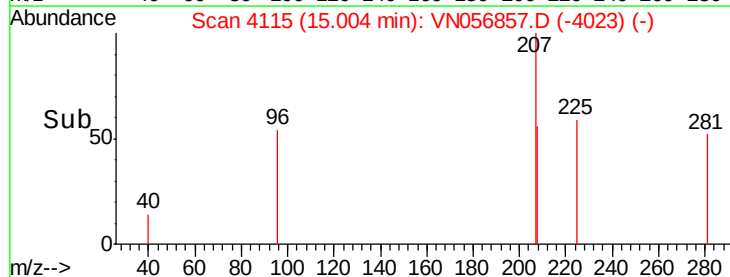
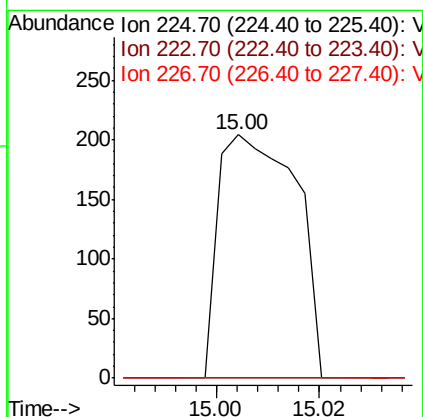
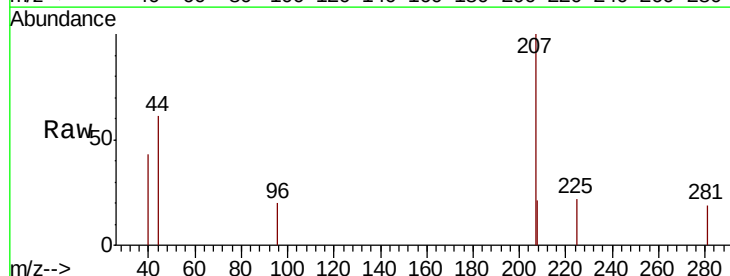
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0722WBL01

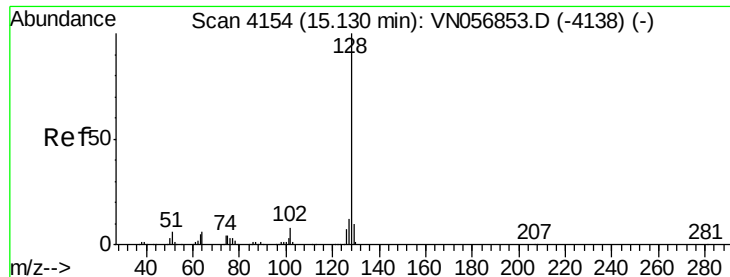
Tot Ion:180 Resp: 1074
 Ion Ratio Lower Upper
 180 100
 182 70.6 47.9 143.7
 145 21.4 14.1 42.3



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.00 min Scan# 4115
 Delta R.T. -0.00 min
 Lab File: VN056857.D
 Acq: 22 Jul 2019 16:33

Tgt Ion:225 Resp: 212
 Ion Ratio Lower Upper
 225 100
 223 0.0 31.9 95.5#
 227 0.0 31.7 95.1#





#95

Naphthalene

Concen: 3.798 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056857.D

Acq: 22 Jul 2019 16:33

Instrument :

MSVOA_N

ClientSampled :

VN0722WBL01

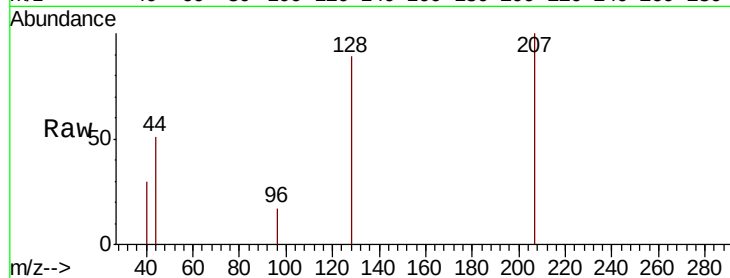
Tot Ion:128 Resp: 1437

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

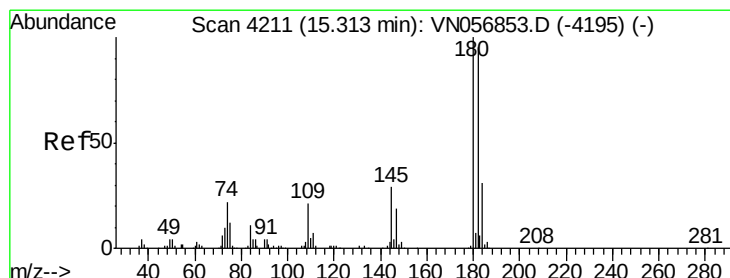
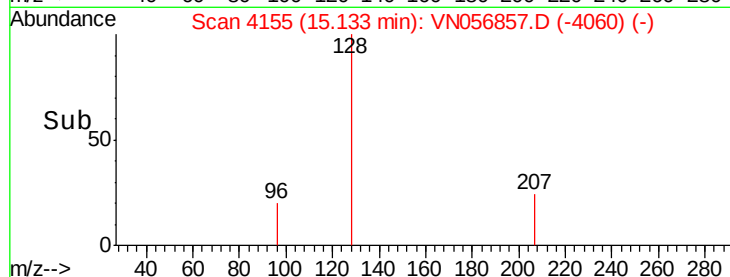
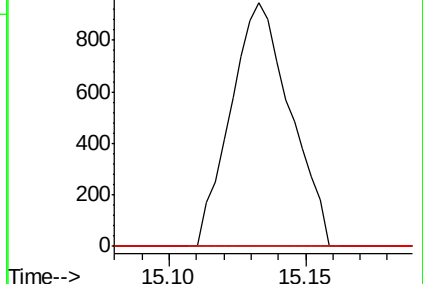
129 0.0 8.5 12.7#



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: 2.788 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. -0.00 min

Lab File: VN056857.D

Acq: 22 Jul 2019 16:33

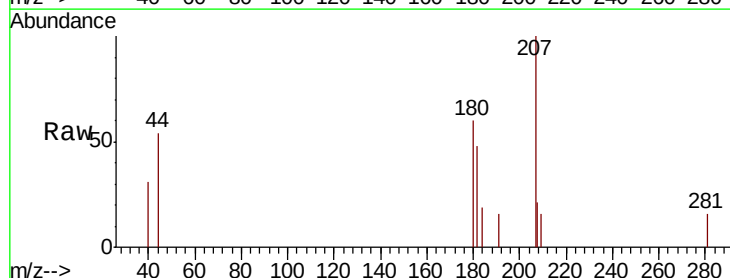
Tgt Ion:180 Resp: 1023

Ion Ratio Lower Upper

180 100

182 79.8 48.1 144.3

145 5.9 14.7 44.1#



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

