

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071619\
 Data File : VN056755.D
 Acq On : 16 Jul 2019 9:57
 Operator : JC/SP
 Sample : VN0716WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0716WBL01

Quant Time: Jul 17 01:06:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 07:03:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	277657	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	497045	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	510314	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	190253	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	162927	53.05	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	106.10%	
35) Dibromofluoromethane	7.59	113	147685	47.74	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	95.48%	
50) Toluene-d8	10.09	98	620553	51.94	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	103.88%	
62) 4-Bromofluorobenzene	12.40	95	224177	55.64	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	111.28%	

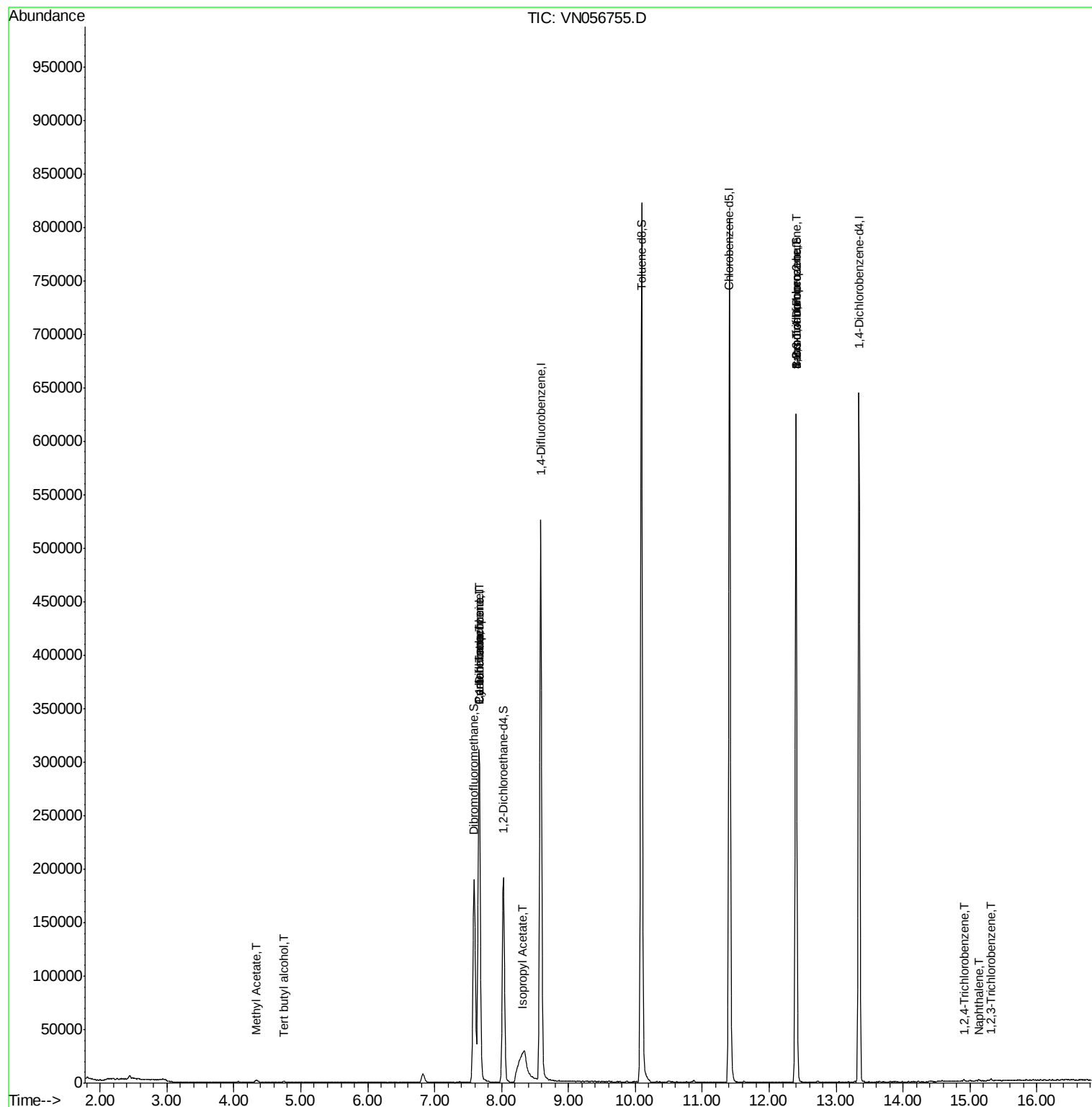
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	218	0.426	ug/l #	73
18) Methyl Acetate	4.33	43	4957	0.598	ug/l #	64
31) Cyclohexane	7.66	56	4536	0.924	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	18438	4.009	ug/l #	47
38) Carbon Tetrachloride	7.66	117	24493	5.678	ug/l #	15
43) Isopropyl Acetate	8.31	43	41397	5.809	ug/l #	54
71) Bromoform	12.40	173	1745	0.597	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	103224	24.807	ug/l #	100
79) 2-Chlorotoluene	12.67	91	61	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	103224	76.611	ug/l #	13
83) tert-Butylbenzene	12.99	119	30	Below Cal	#	27
93) 1,2,4-Trichlorobenzene	14.91	180	978	3.935	ug/l #	91
95) Naphthalene	15.13	128	2220	4.724	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.31	180	1323	3.658	ug/l	86

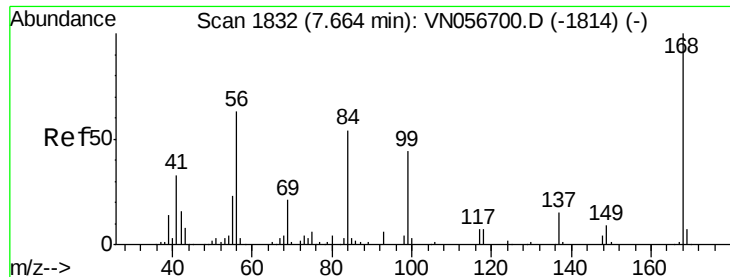
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN071619\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN056755.D

Acq: 16 Jul 2019 9:57

Instrument :

MSVOA_N

ClientSampleId :

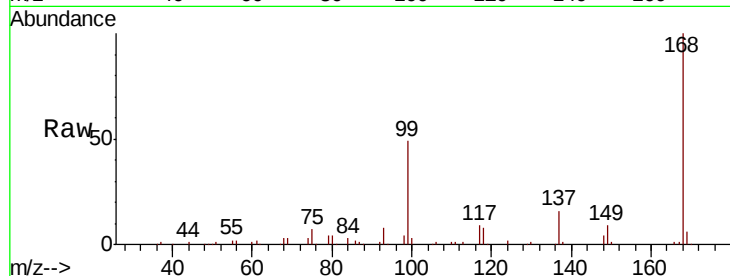
VN0716WBL01

Tot Ion:168 Resp: 277657

Ion Ratio Lower Upper

168 100

99 48.6 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

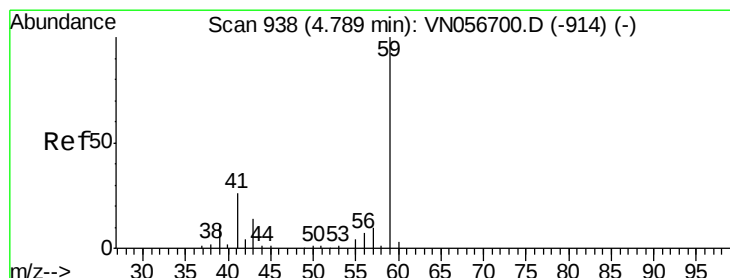
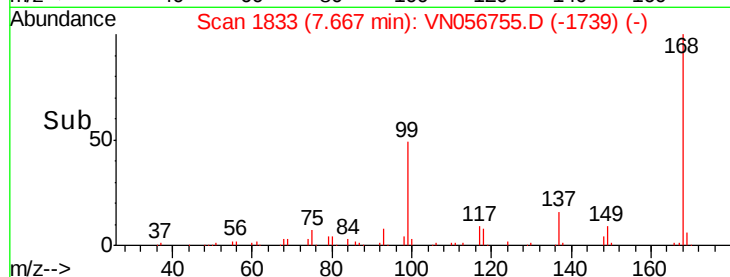
7.67

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.426 ug/l

RT: 4.73 min Scan# 921

Delta R.T. -0.05 min

Lab File: VN056755.D

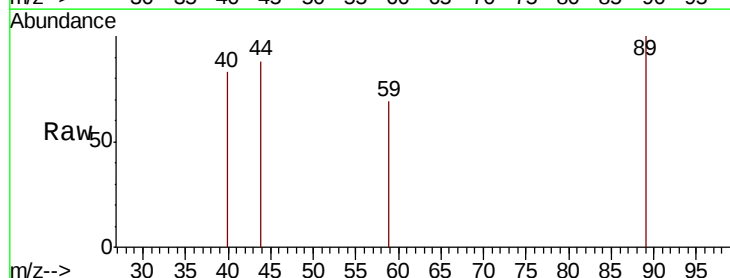
Acq: 16 Jul 2019 9:57

Tgt Ion: 59 Resp: 218

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.73

300

250

200

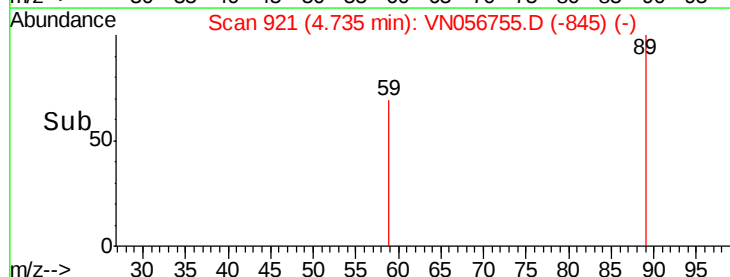
150

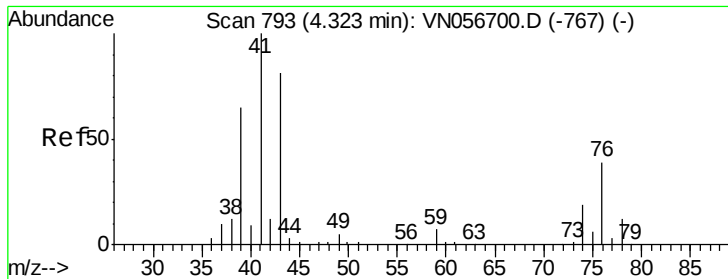
100

50

0

Time-->

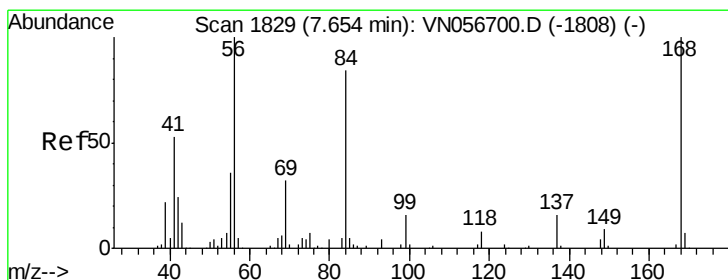
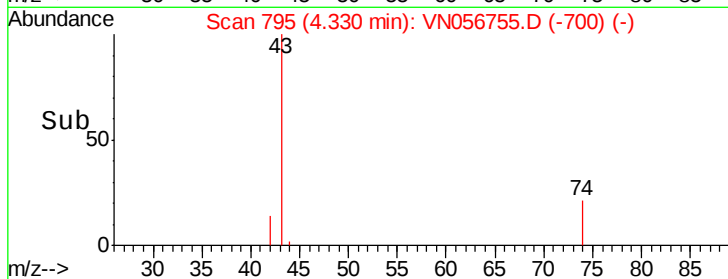
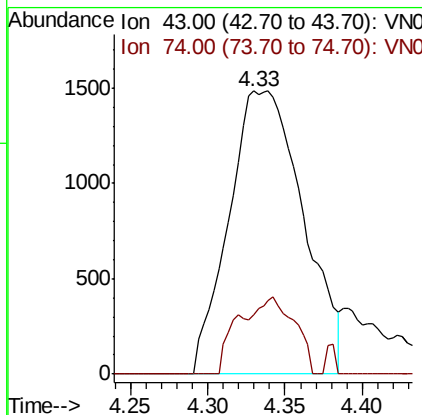
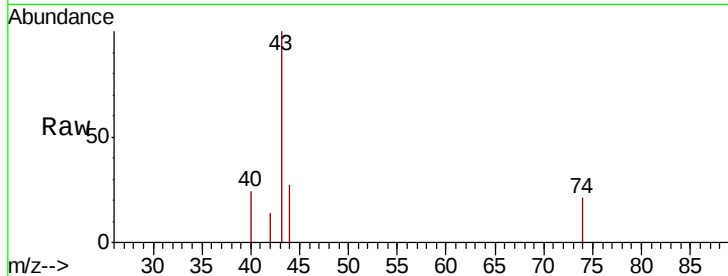




#18
Methyl Acetate
Concen: 0.598 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.01 min
Lab File: VN056755.D
Acq: 16 Jul 2019 9:57

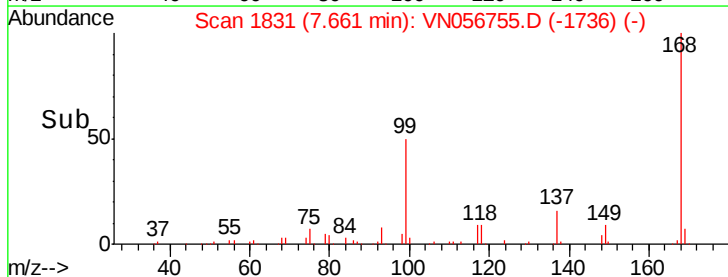
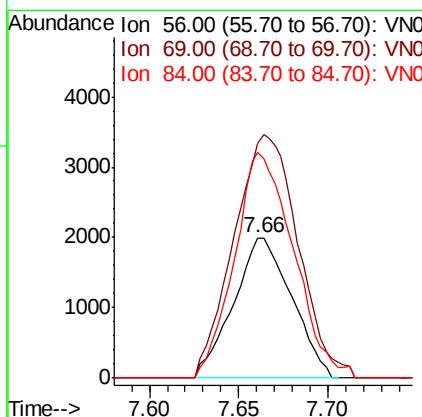
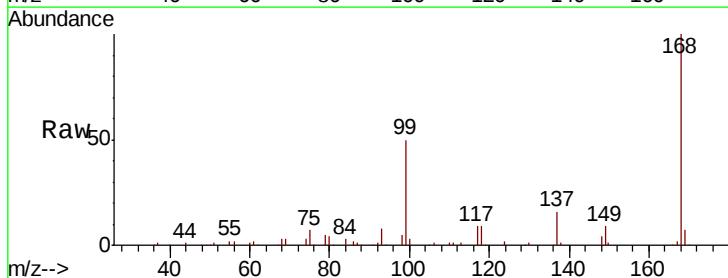
Instrument :
MSVOA_N
ClientSampleId :
VN0716WBL01

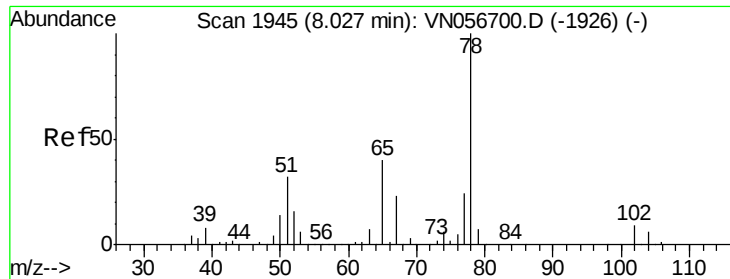
Tot Ion: 43 Resp: 4957
Ion Ratio Lower Upper
43 100
74 6.0 18.9 28.3#



#31
Cyclohexane
Concen: 0.924 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN056755.D
Acq: 16 Jul 2019 9:57

Tgt Ion: 56 Resp: 4536
Ion Ratio Lower Upper
56 100
69 167.9 25.8 38.8#
84 161.1 67.4 101.0#

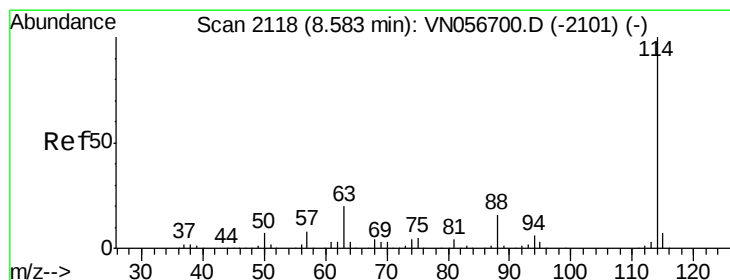
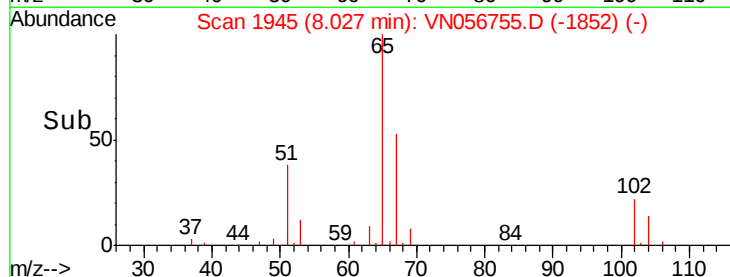
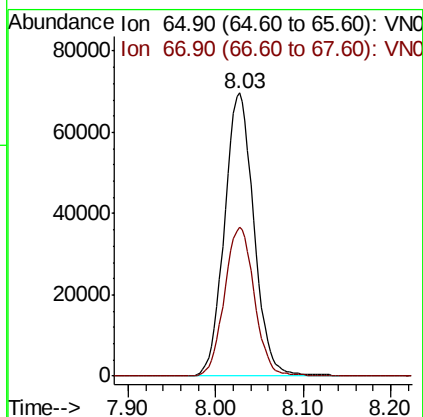
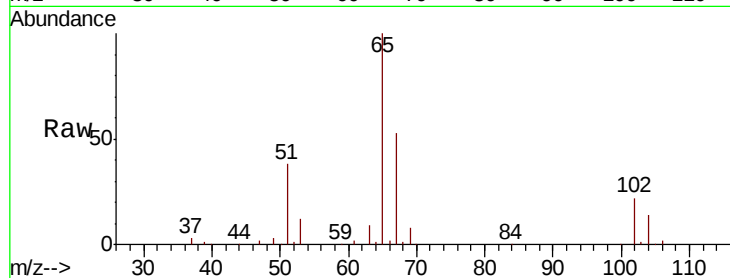




#33
 1,2-Dichloroethane-d4
 Concen: 53.049 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN056755.D
 Acq: 16 Jul 2019 9:57

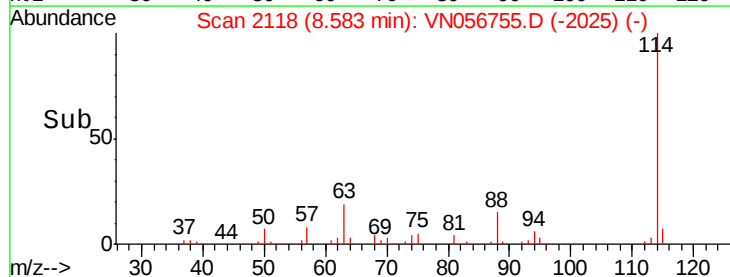
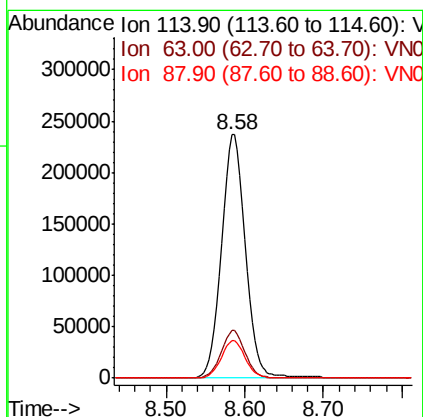
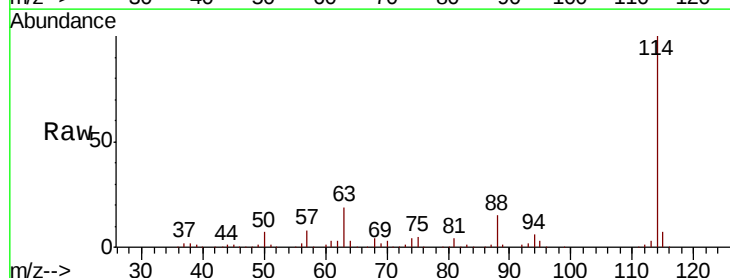
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0716WBL01

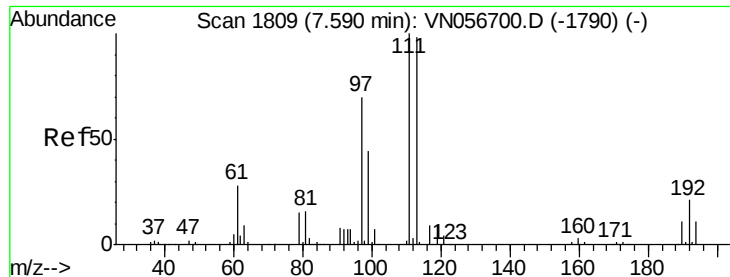
Tot Ion: 65 Resp: 162927
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 109.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN056755.D
 Acq: 16 Jul 2019 9:57

Tgt Ion: 114 Resp: 497045
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 39.4
 88 15.2 0.0 31.2





#35

Dibromofluoromethane

Concen: 47.745 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN056755.D

Acq: 16 Jul 2019 9:57

Instrument :

MSVOA_N

ClientSampleId :

VN0716WBL01

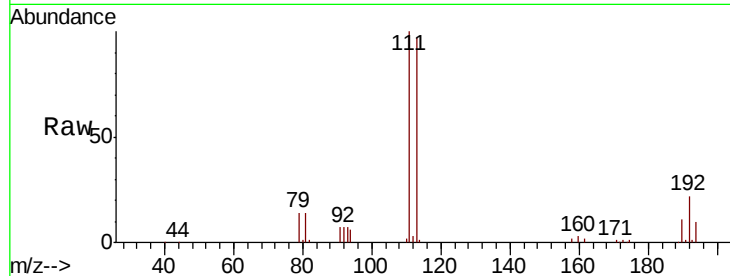
Tot Ion:113 Resp: 147685

Ion Ratio Lower Upper

113 100

111 103.0 81.8 122.6

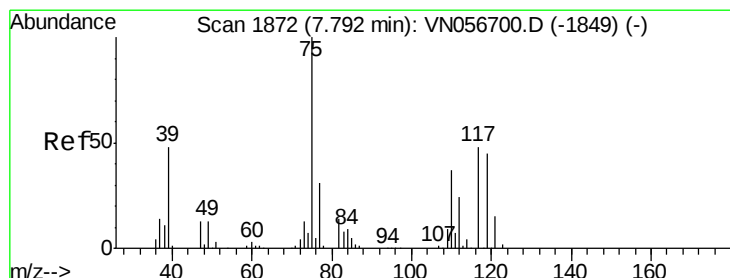
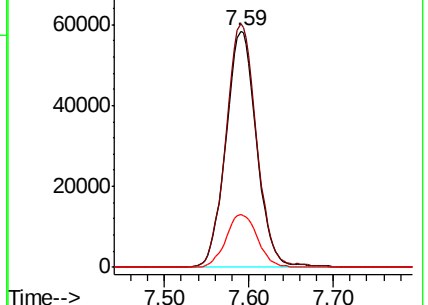
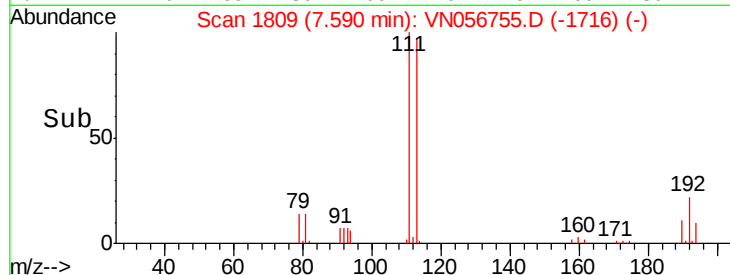
192 22.9 17.5 26.3



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.009 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN056755.D

Acq: 16 Jul 2019 9:57

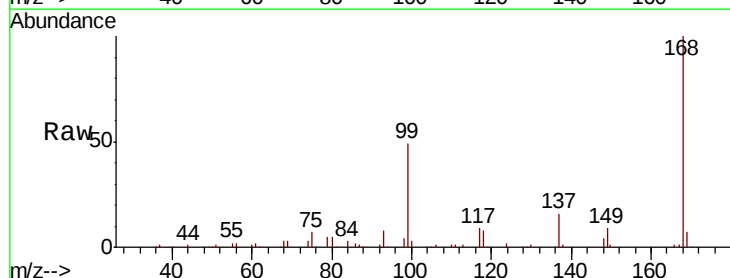
Tgt Ion: 75 Resp: 18438

Ion Ratio Lower Upper

75 100

110 7.3 18.4 55.4#

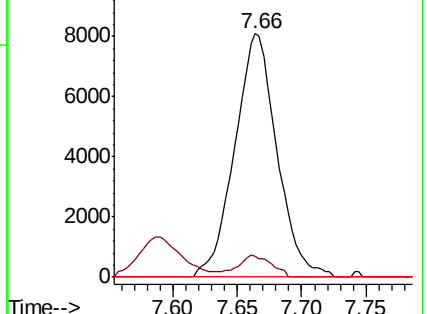
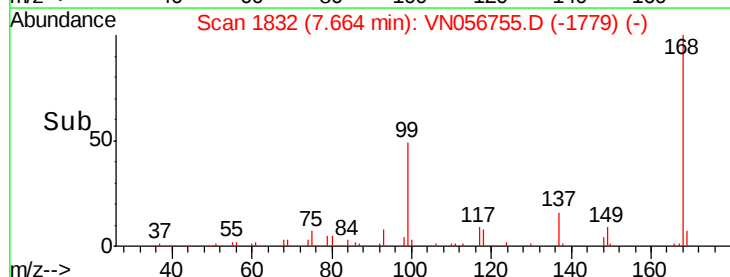
77 0.0 24.6 36.8#

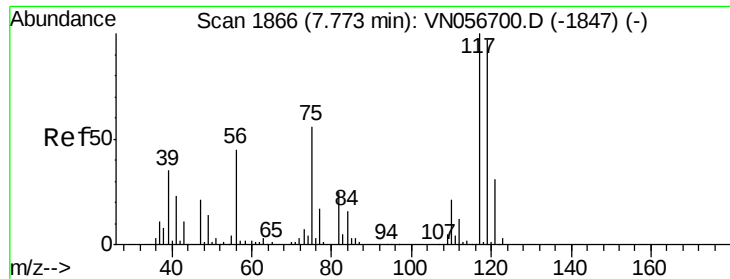


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.678 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN056755.D

Acq: 16 Jul 2019 9:57

Instrument :

MSVOA_N

ClientSampled :

VN0716WBL01

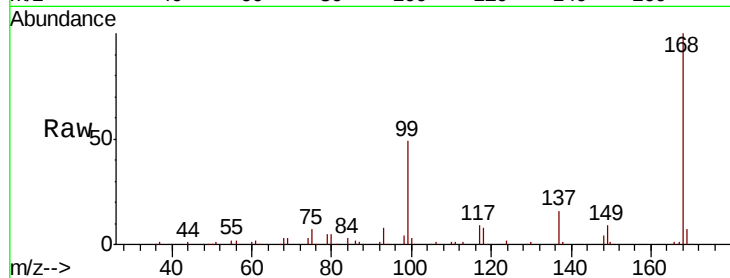
Tot Ion:117 Resp: 24493

Ion Ratio Lower Upper

117 100

119 4.8 77.5 116.3#

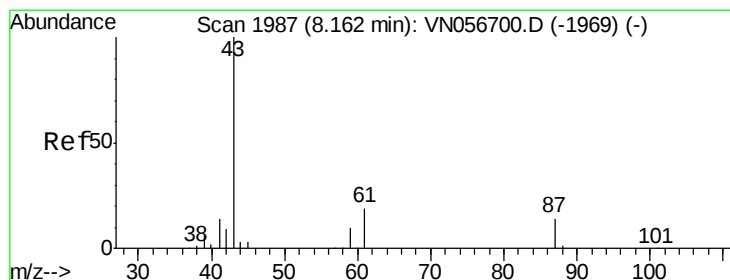
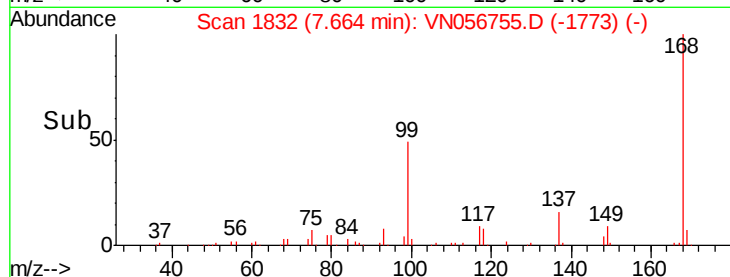
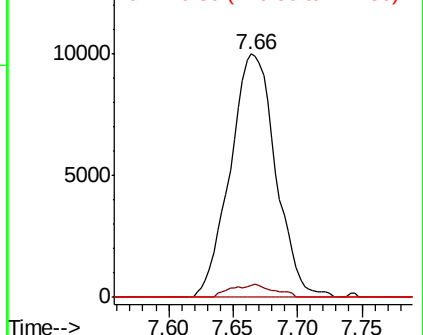
121 0.0 24.7 37.1#



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: 5.809 ug/l

RT: 8.31 min Scan# 2032

Delta R.T. 0.14 min

Lab File: VN056755.D

Acq: 16 Jul 2019 9:57

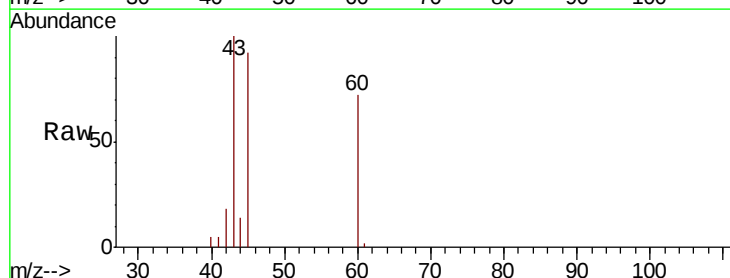
Tgt Ion: 43 Resp: 41397

Ion Ratio Lower Upper

43 100

61 0.7 22.3 33.5#

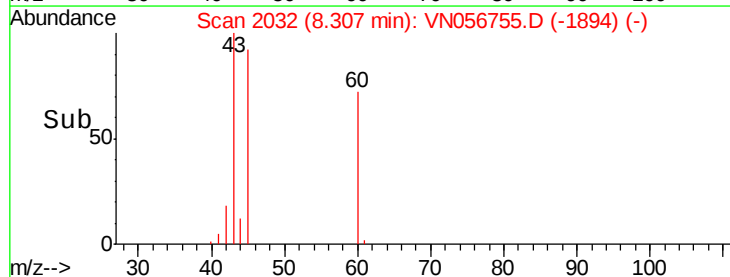
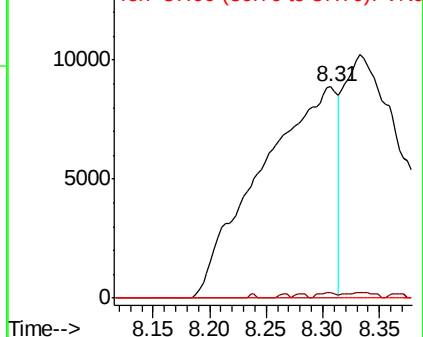
87 0.0 11.1 16.7#

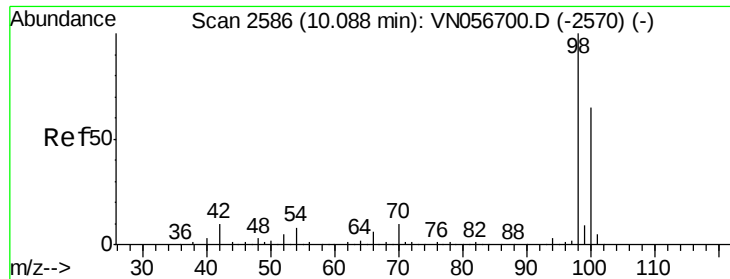


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#50

Toluene-d8

Concen: 51.943 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056755.D

Acq: 16 Jul 2019 9:57

Instrument :

MSVOA_N

ClientSampleId :

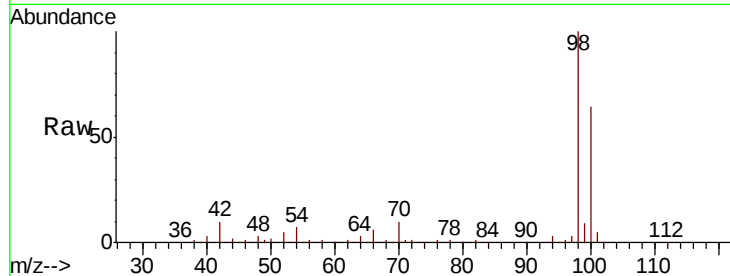
VN0716WBL01

Tot Ion: 98 Resp: 620553

Ion Ratio Lower Upper

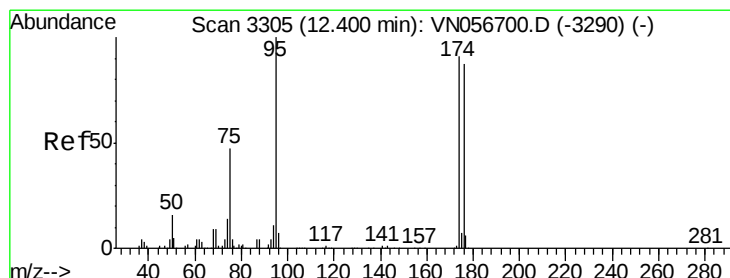
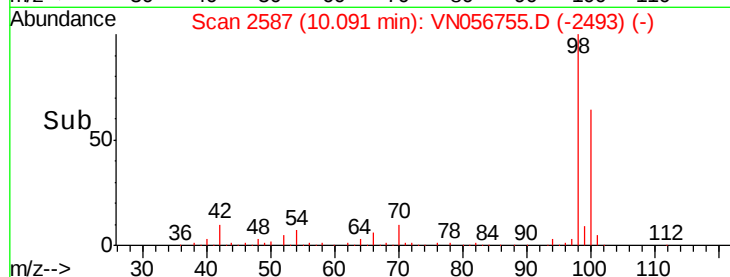
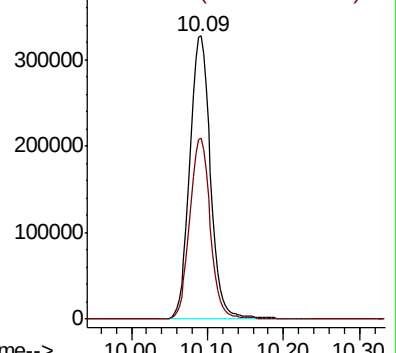
98 100

100 63.6 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#62

4-Bromofluorobenzene

Concen: 55.643 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056755.D

Acq: 16 Jul 2019 9:57

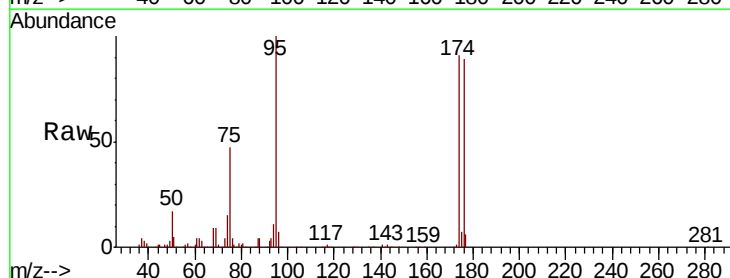
Tgt Ion: 95 Resp: 224177

Ion Ratio Lower Upper

95 100

174 90.0 0.0 180.0

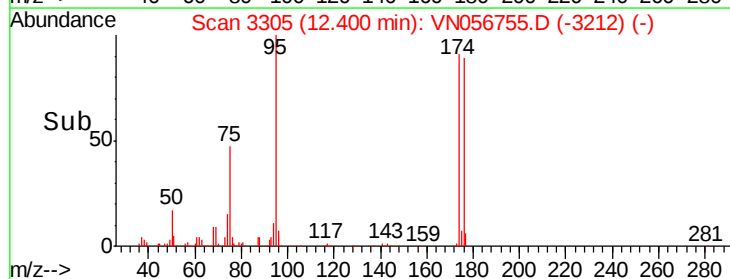
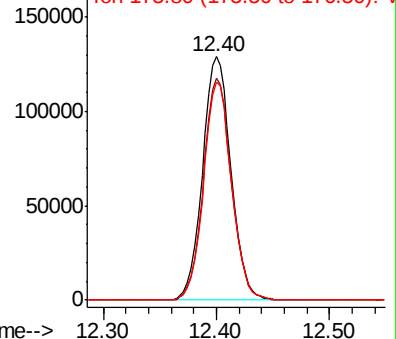
176 88.2 0.0 173.2

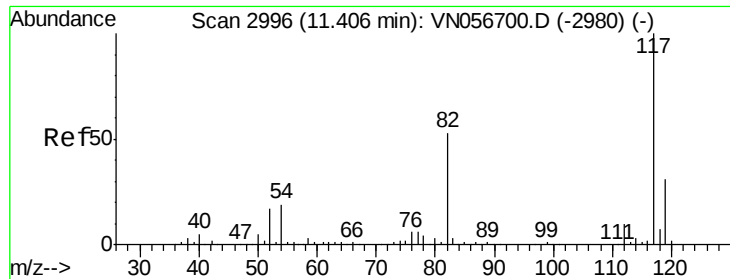


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

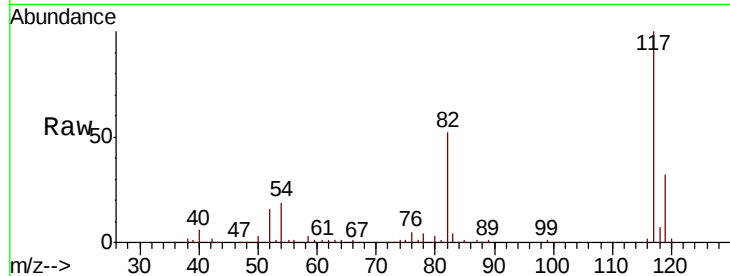




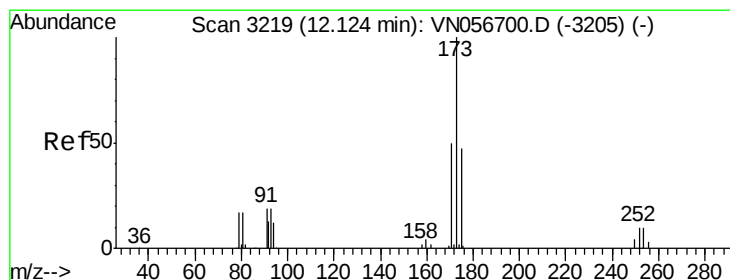
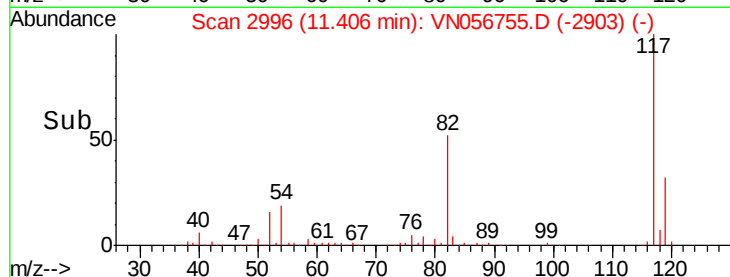
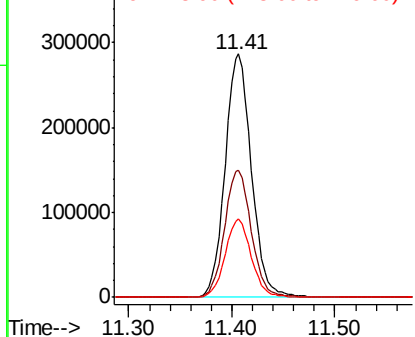
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056755.D
Acq: 16 Jul 2019 9:57

Instrument :
MSVOA_N
ClientSampleId :
VN0716WBL01

Tot Ion:117 Resp: 510314
Ion Ratio Lower Upper
117 100
82 52.4 42.2 63.2
119 32.0 25.2 37.8

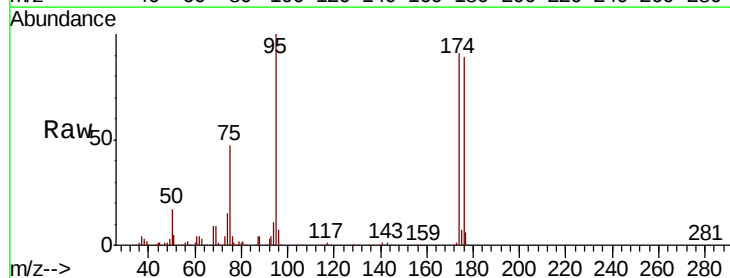


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

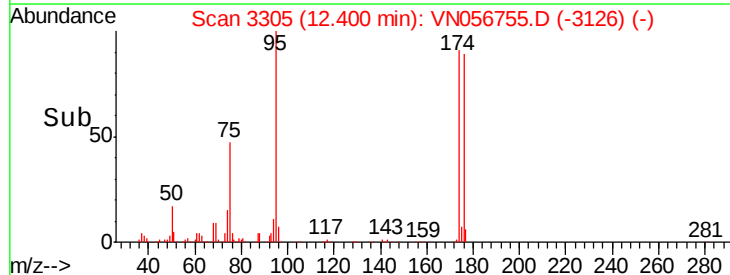
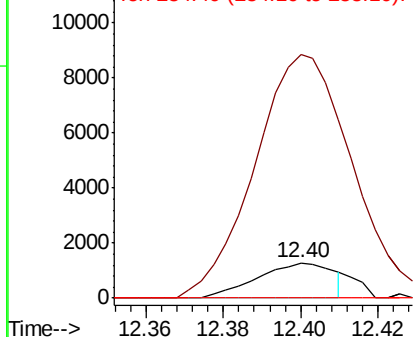


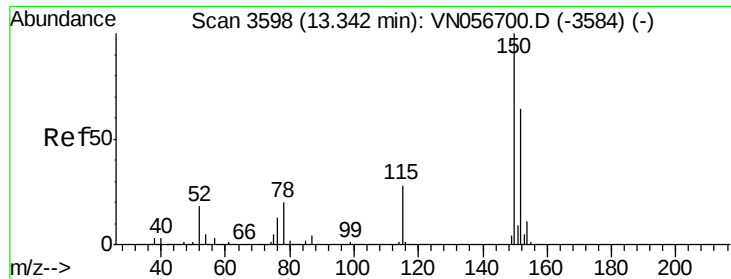
#71
Bromoform
Concen: 0.597 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.28 min
Lab File: VN056755.D
Acq: 16 Jul 2019 9:57

Tgt Ion:173 Resp: 1745
Ion Ratio Lower Upper
173 100
175 720.9 23.8 71.4#
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: VN056755.D

Acq: 16 Jul 2019 9:57

Instrument :

MSVOA_N

ClientSampleId :

VN0716WBL01

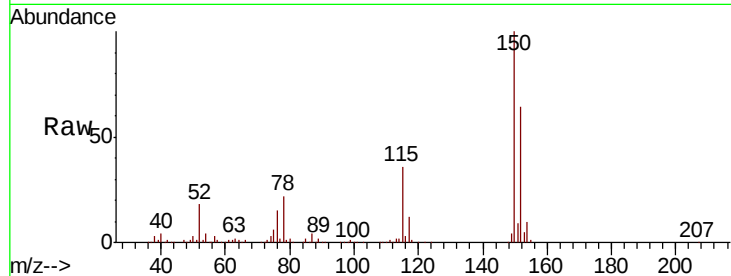
Tot Ion:152 Resp: 190253

Ion Ratio Lower Upper

152 100

115 54.9 28.2 84.7

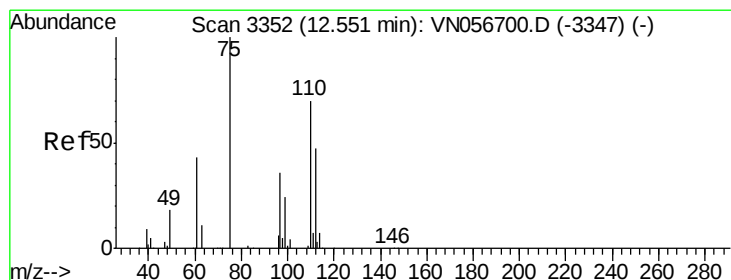
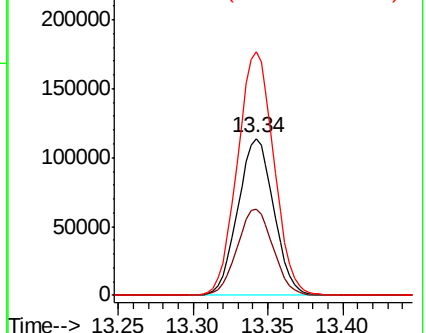
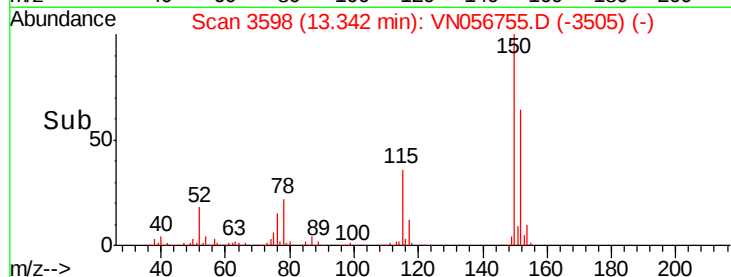
150 157.7 0.0 345.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 24.807 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056755.D

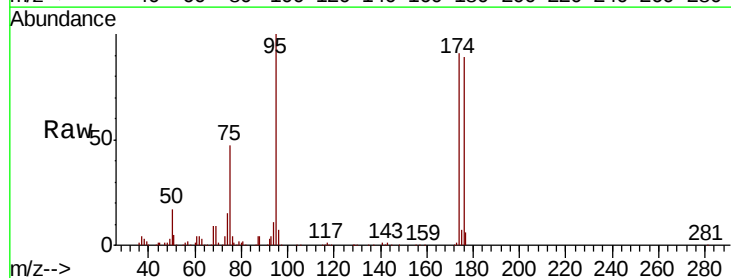
Acq: 16 Jul 2019 9:57

Tgt Ion: 75 Resp: 103224

Ion Ratio Lower Upper

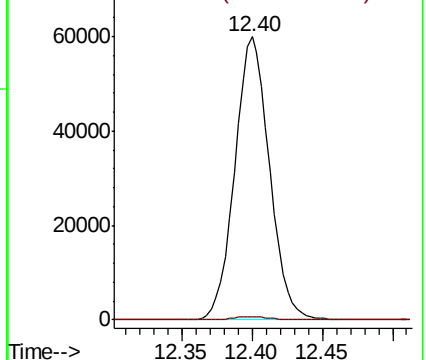
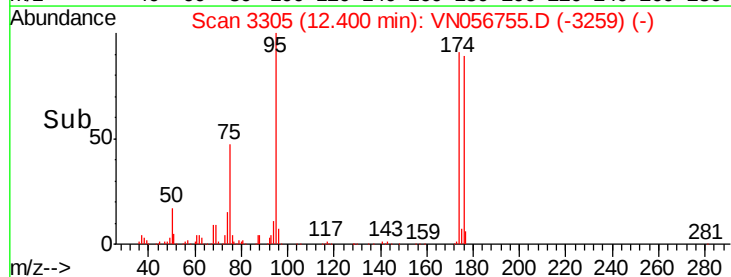
75 100

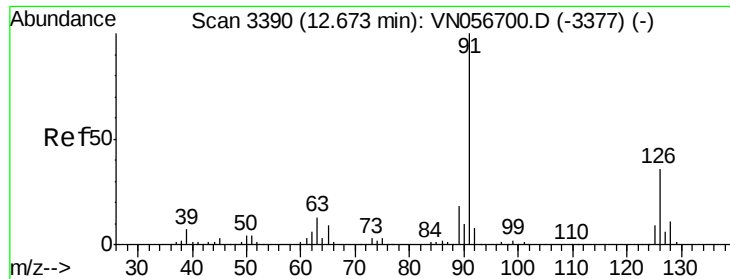
77 1.1 0.0 0.0#



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: 12.67 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VN056755.D

Acq: 16 Jul 2019 9:57

Instrument :

MSVOA_N

ClientSampleId :

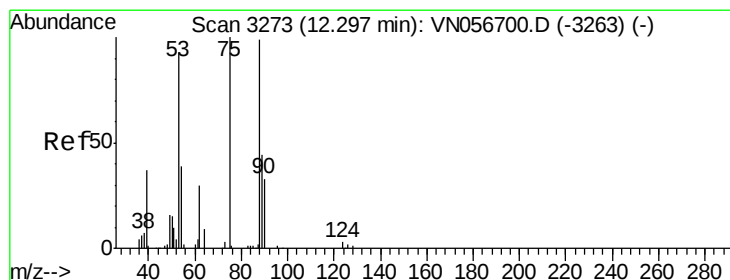
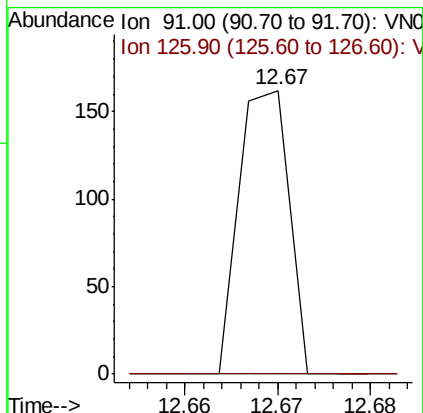
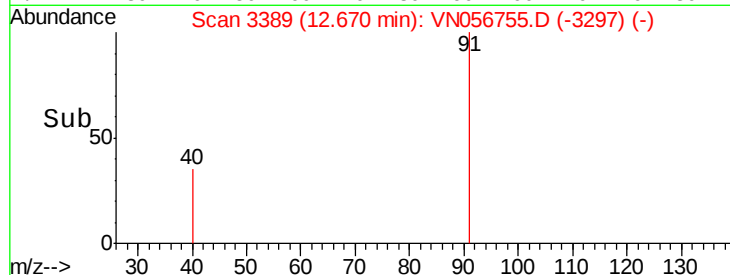
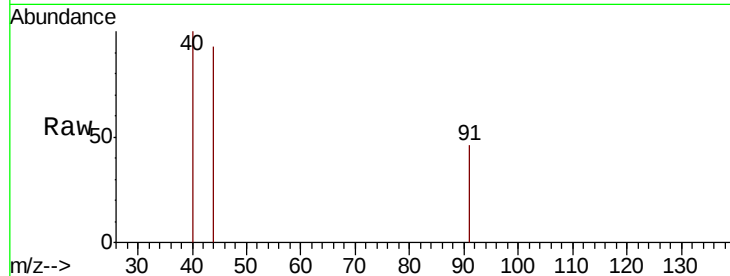
VN0716WBL01

Tot Ion: 91 Resp: 61

Ion Ratio Lower Upper

91 100

126 0.0 17.9 53.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 76.611 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056755.D

Acq: 16 Jul 2019 9:57

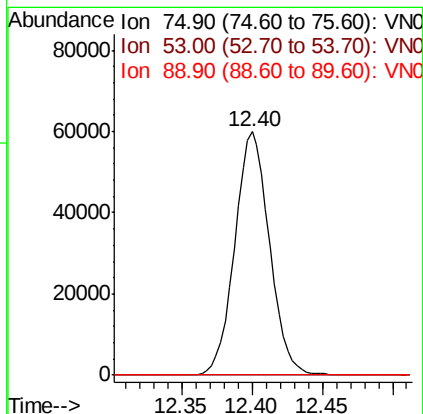
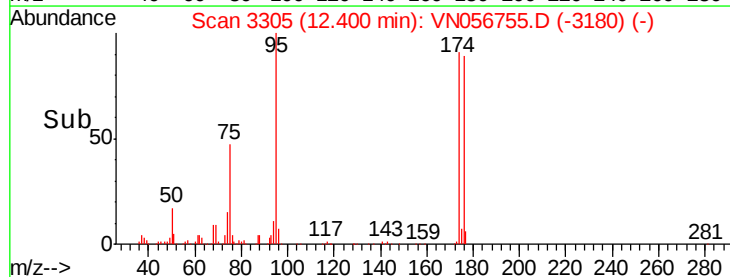
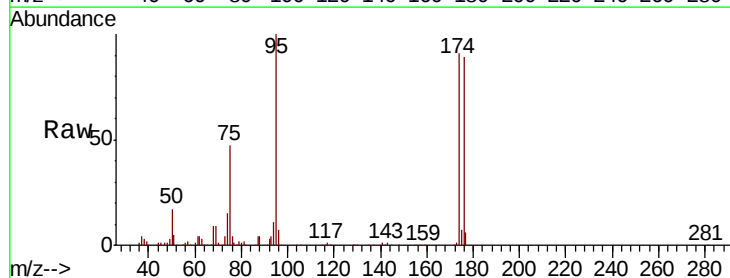
Tgt Ion: 75 Resp: 103224

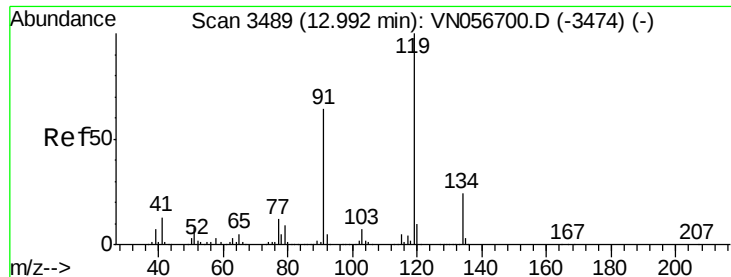
Ion Ratio Lower Upper

75 100

53 0.0 73.7 110.5#

89 0.0 36.2 54.2#

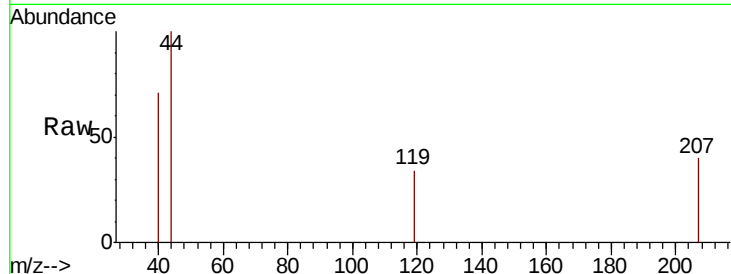




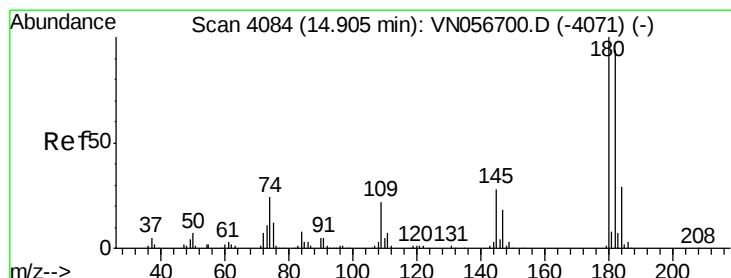
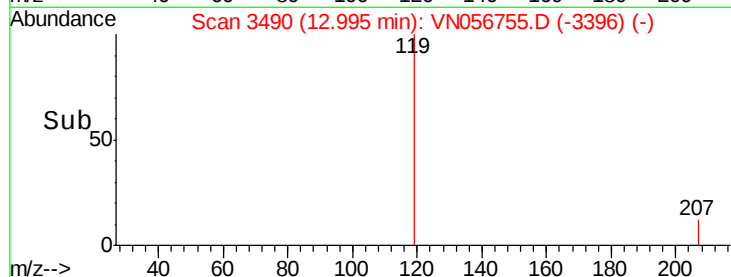
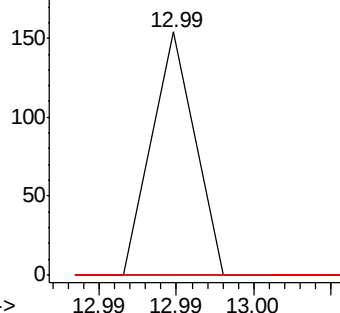
#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN056755.D
 Acq: 16 Jul 2019 9:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0716WBL01

Tot Ion:119 Resp: 30
 Ion Ratio Lower Upper
 119 100
 91 0.0 31.8 95.4#
 134 0.0 13.0 38.9#

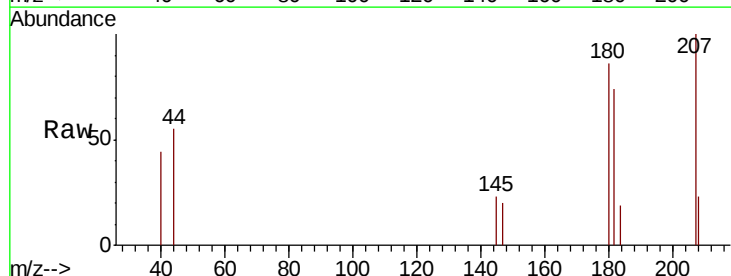


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): V
 Ion 134.00 (133.70 to 134.70): V

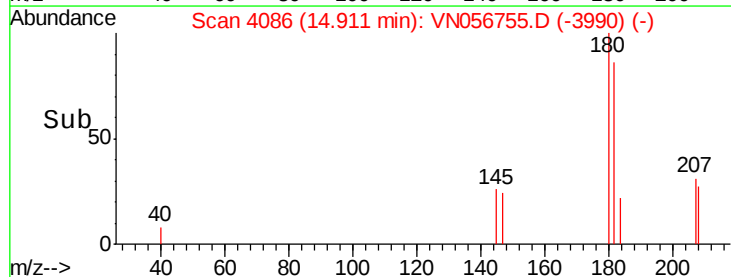
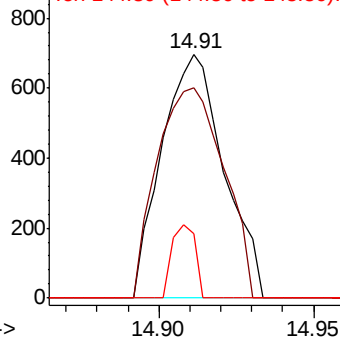


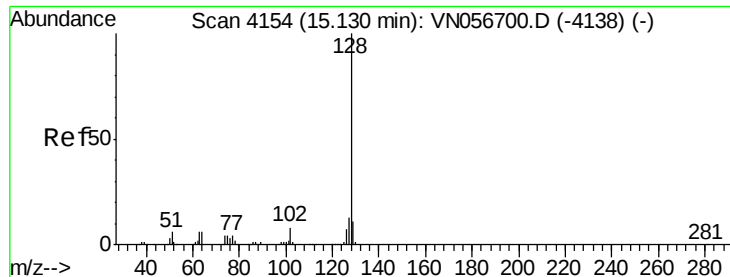
#93
 1,2,4-Trichlorobenzene
 Concen: 3.935 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.01 min
 Lab File: VN056755.D
 Acq: 16 Jul 2019 9:57

Tgt Ion:180 Resp: 978
 Ion Ratio Lower Upper
 180 100
 182 92.6 47.2 141.6
 145 11.2 14.2 42.8#



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





#95

Naphthalene

Concen: 4.724 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN056755.D

Acq: 16 Jul 2019 9:57

Instrument :

MSVOA_N

ClientSampleId :

VN0716WBL01

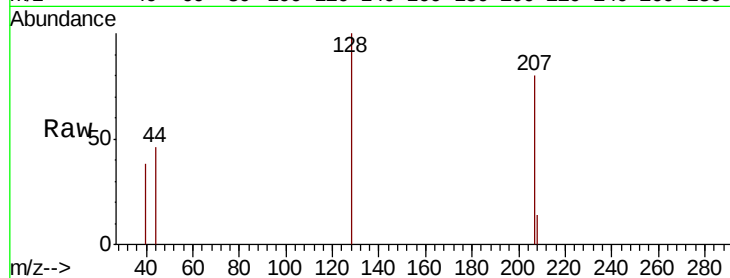
Tot Ion:128 Resp: 2220

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

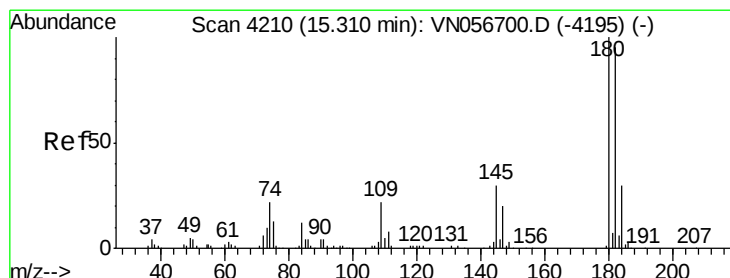
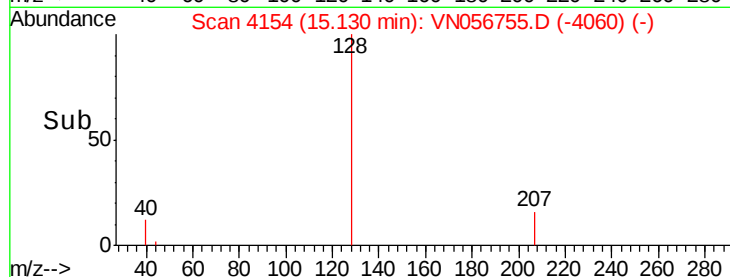
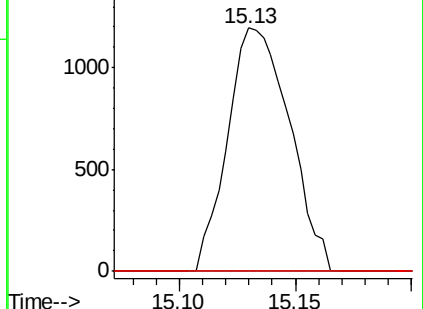
129 0.0 8.7 13.1#



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



#96

1,2,3-Trichlorobenzene

Concen: 3.658 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. 0.00 min

Lab File: VN056755.D

Acq: 16 Jul 2019 9:57

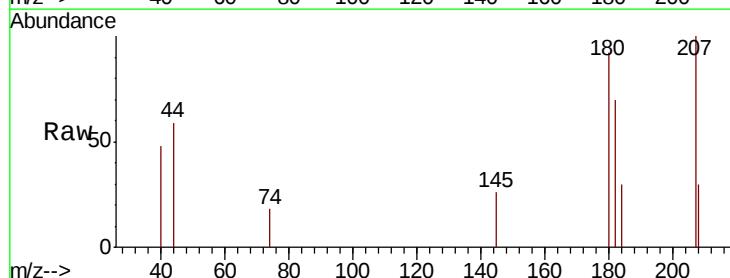
Tgt Ion:180 Resp: 1323

Ion Ratio Lower Upper

180 100

182 82.3 47.1 141.3

145 19.1 15.0 45.1



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

