

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071519\
 Data File : VN056716.D
 Acq On : 15 Jul 2019 16:49
 Operator : JC/SP
 Sample : K3814-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LC-TB04-190712

Quant Time: Jul 16 04:23:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 01:25:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	270137	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	472337	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	480237	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	184590	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	155493	52.04	ug/l	0.00
Spiked Amount			Recovery	=	104.08%	
35) Dibromofluoromethane	7.59	113	142174	48.37	ug/l	0.00
Spiked Amount			Recovery	=	96.74%	
50) Toluene-d8	10.09	98	590183	51.99	ug/l	0.00
Spiked Amount			Recovery	=	103.98%	
62) 4-Bromofluorobenzene	12.40	95	209313	54.67	ug/l	0.00
Spiked Amount			Recovery	=	109.34%	

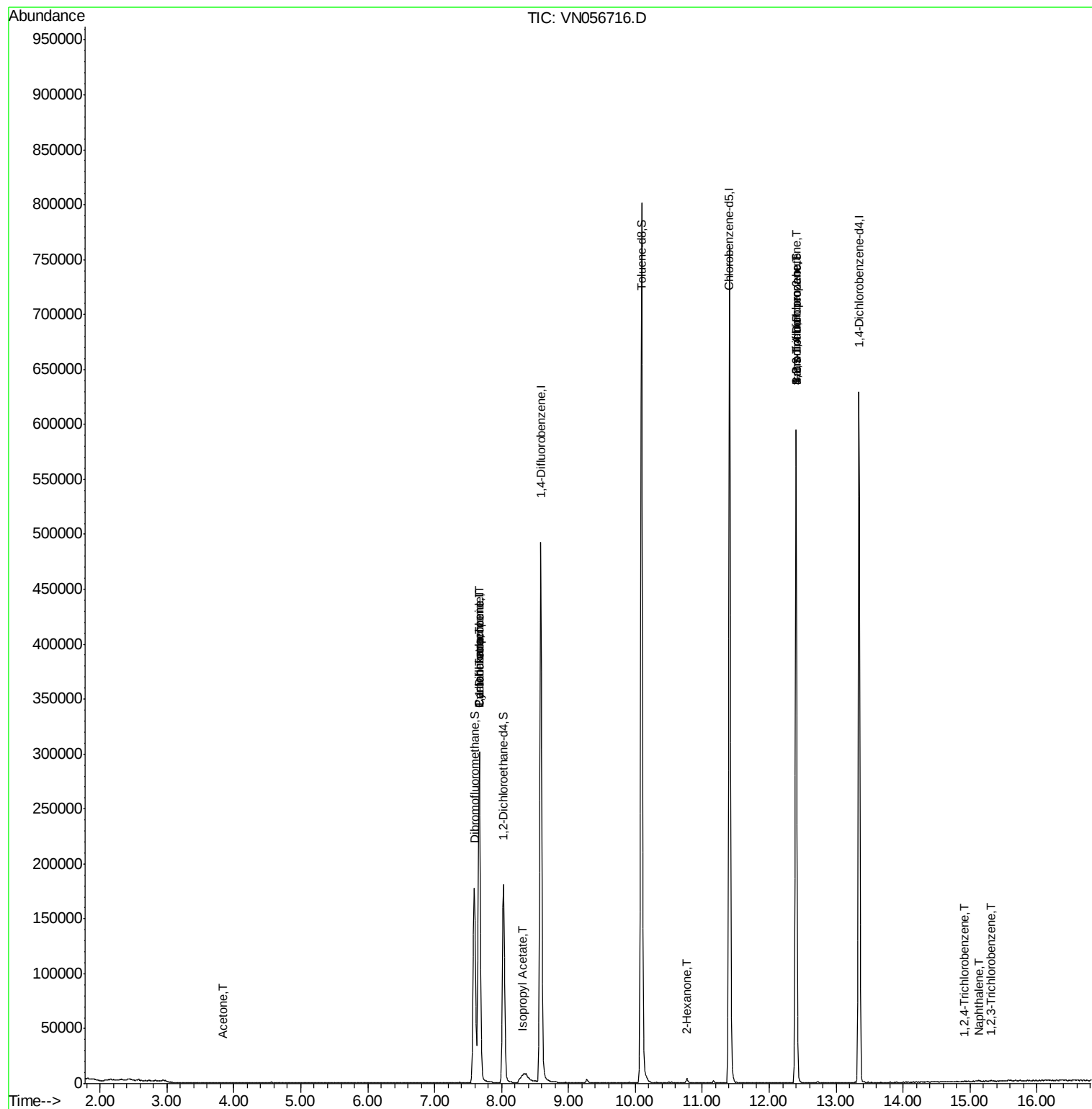
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.83	43	326	0.237	ug/l #	41
18) Methyl Acetate	4.34	43	199	Below Cal	#	52
31) Cyclohexane	7.67	56	4322	0.905	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	18160	4.155	ug/l #	49
38) Carbon Tetrachloride	7.66	117	23388	5.706	ug/l #	16
43) Isopropyl Acetate	8.30	43	5774	0.853	ug/l #	53
59) 2-Hexanone	10.76	43	979	0.311	ug/l #	23
71) Bromoform	12.40	173	1543	0.561	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	98179	24.318	ug/l #	100
79) 2-Chlorotoluene	12.60	91	357	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	98179	75.103	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.91	180	153	3.731	ug/l #	1
95) Naphthalene	15.13	128	832	4.602	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	347	3.413	ug/l #	86

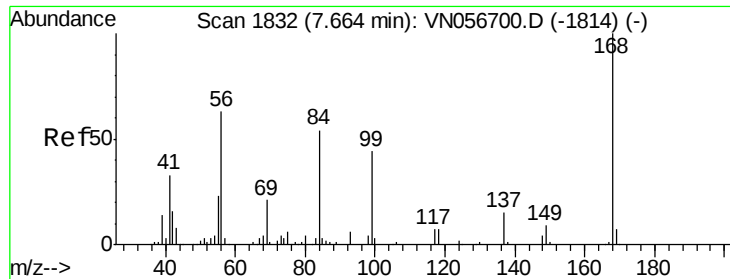
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN056716.D

Acq: 15 Jul 2019 16:49

Instrument :

MSVOA_N

ClientSampleId :

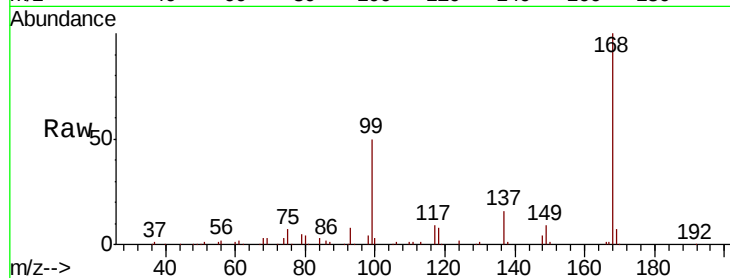
LC-TB04-190712

Tot Ion:168 Resp: 270137

Ion Ratio Lower Upper

168 100

99 50.3 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

120000

100000

80000

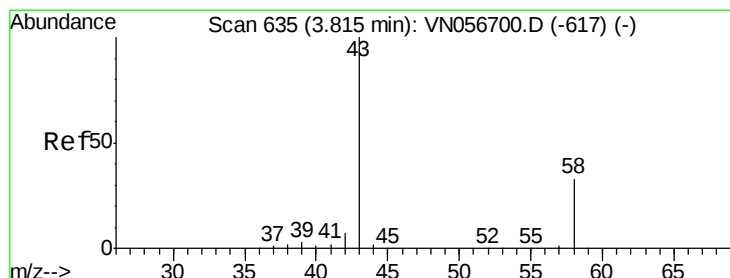
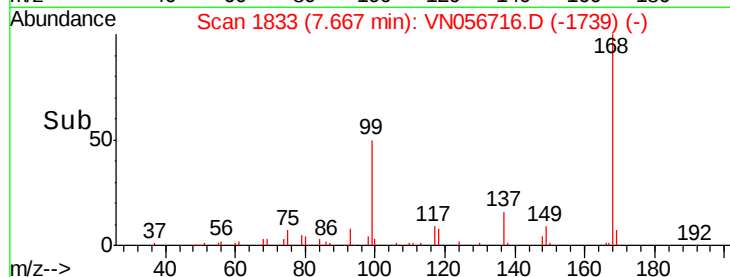
60000

40000

20000

0

Time-->



#16

Acetone

Concen: 0.237 ug/l

RT: 3.83 min Scan# 640

Delta R.T. 0.02 min

Lab File: VN056716.D

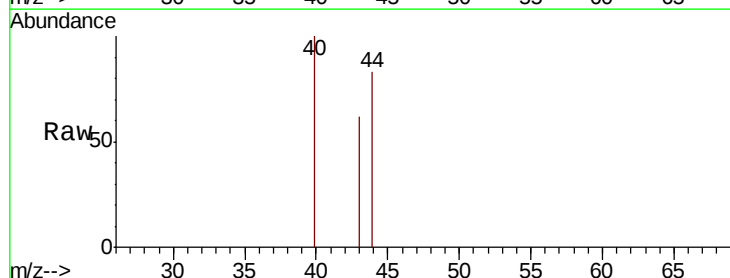
Acq: 15 Jul 2019 16:49

Tgt Ion: 43 Resp: 326

Ion Ratio Lower Upper

43 100

58 0.0 26.7 40.1#



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

300

250

200

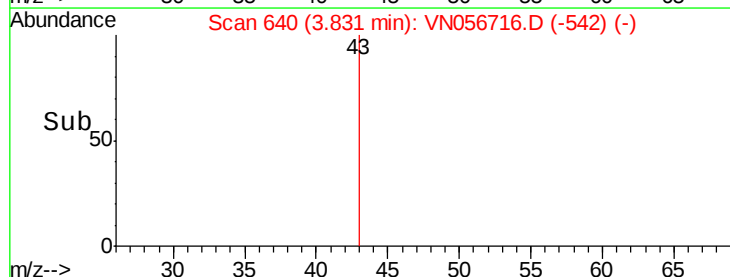
150

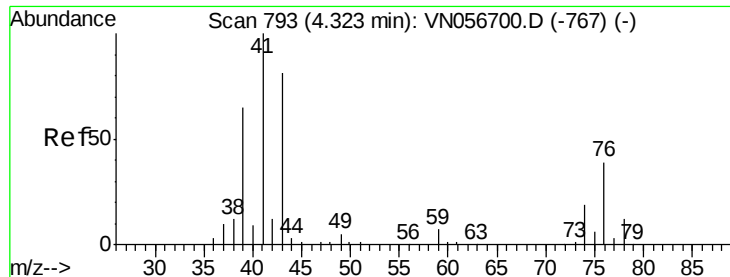
100

50

0

Time-->

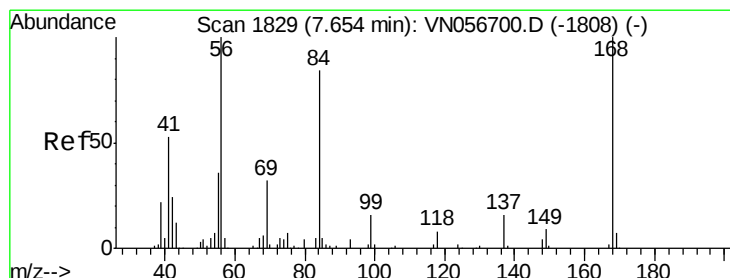
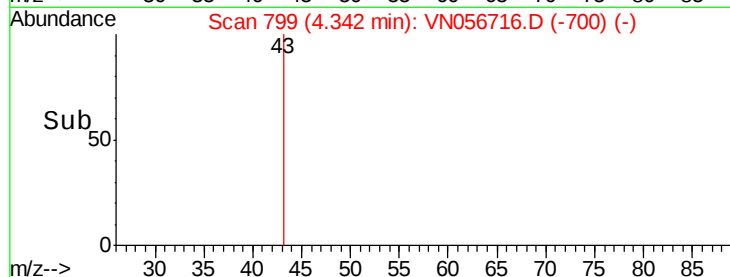
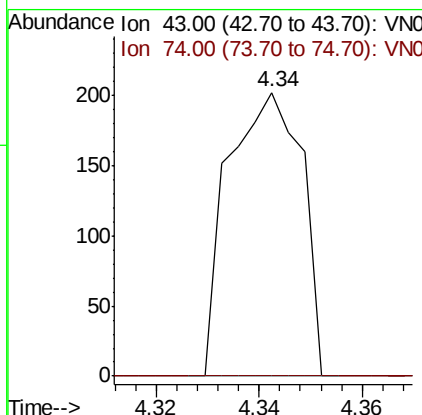
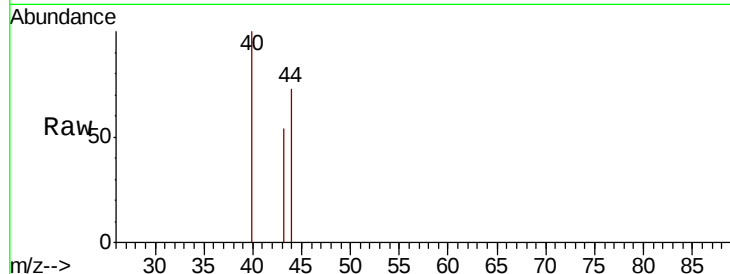




#18
Methyl Acetate
Concen: Below Cal
RT: 4.34 min Scan# 799
Delta R.T. 0.02 min
Lab File: VN056716.D
Acq: 15 Jul 2019 16:49

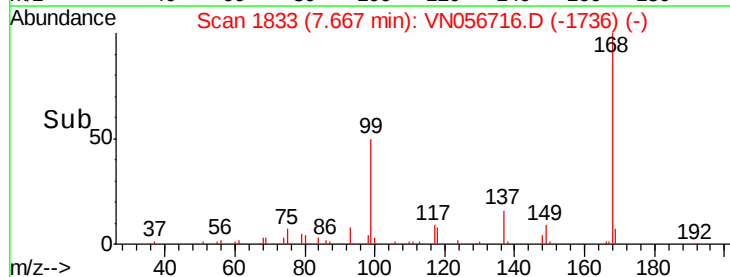
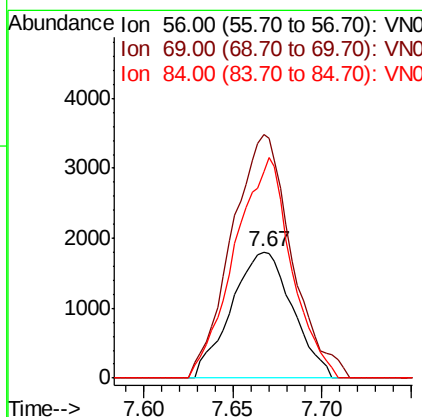
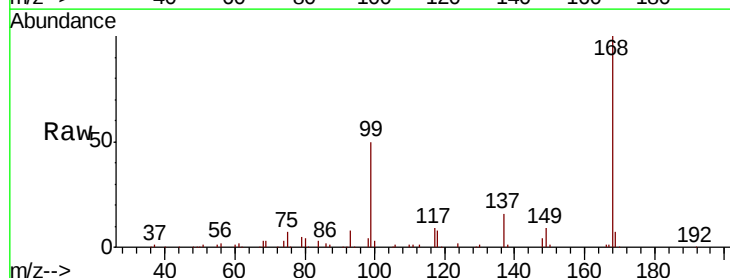
Instrument :
MSVOA_N
ClientSampleId :
LC-TB04-190712

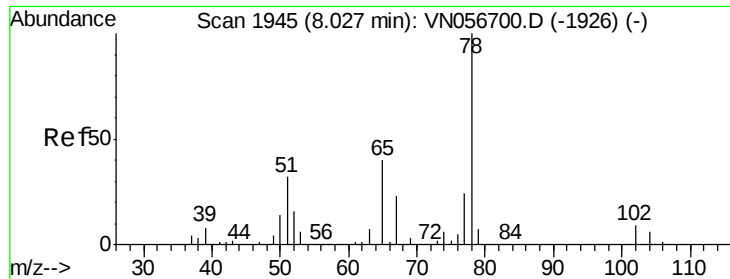
Tot Ion: 43 Resp: 199
Ion Ratio Lower Upper
43 100
74 0.0 18.9 28.3#



#31
Cyclohexane
Concen: 0.905 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN056716.D
Acq: 15 Jul 2019 16:49

Tgt Ion: 56 Resp: 4322
Ion Ratio Lower Upper
56 100
69 192.6 25.8 38.8#
84 163.1 67.4 101.0#

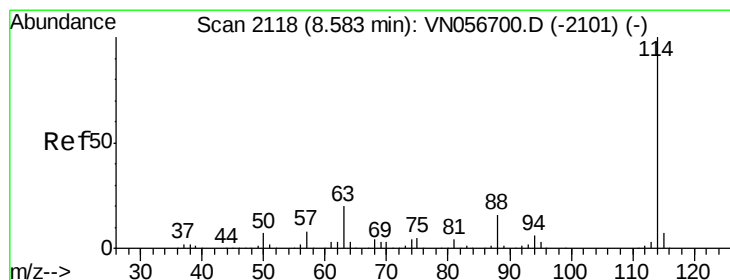
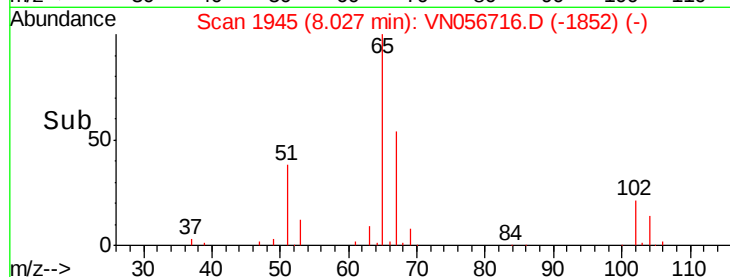
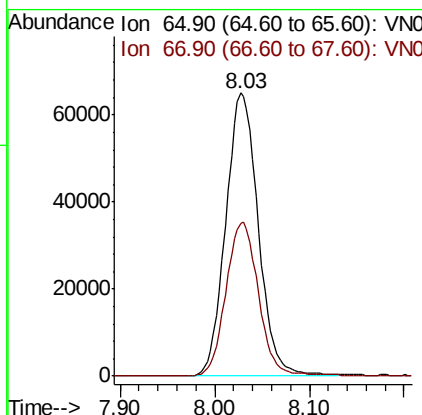
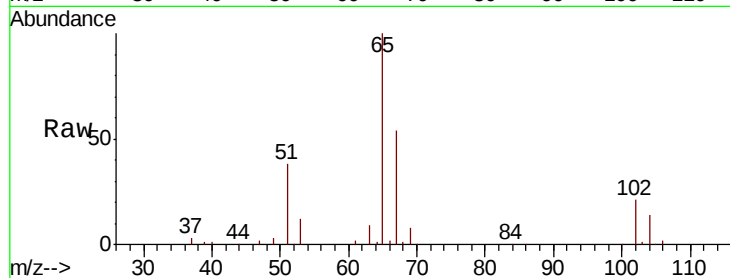




#33
 1,2-Dichloroethane-d4
 Concen: 52.038 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN056716.D
 Acq: 15 Jul 2019 16:49

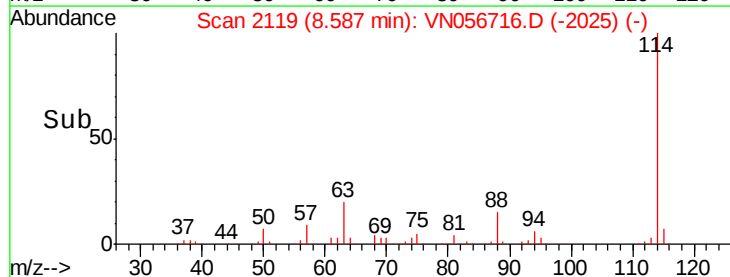
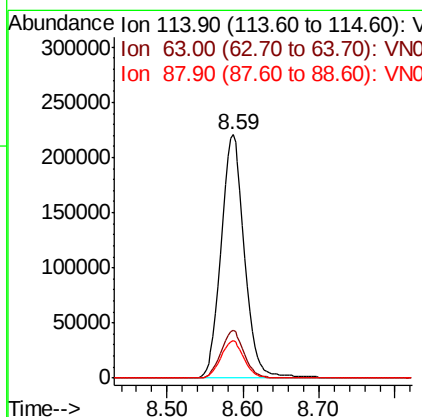
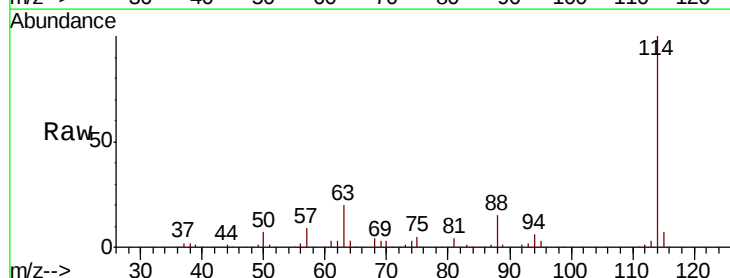
Instrument :
 MSVOA_N
 ClientSampleId :
 LC-TB04-190712

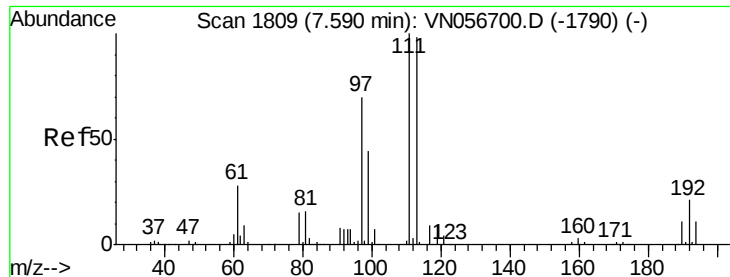
Tot Ion: 65 Resp: 155493
 Ion Ratio Lower Upper
 65 100
 67 54.1 0.0 109.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056716.D
 Acq: 15 Jul 2019 16:49

Tgt Ion: 114 Resp: 472337
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 39.4
 88 15.3 0.0 31.2





#35

Dibromofluoromethane

Concen: 48.368 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN056716.D

Acq: 15 Jul 2019 16:49

Instrument :

MSVOA_N

ClientSampleId :

LC-TB04-190712

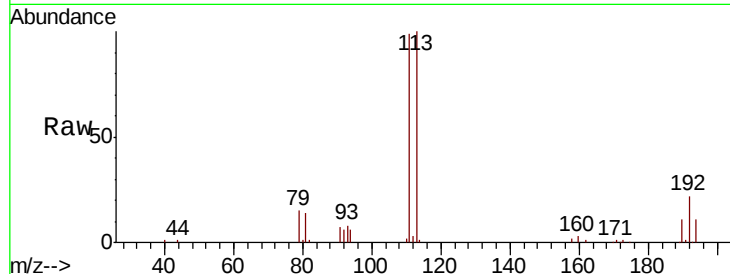
Tot Ion:113 Resp: 142174

Ion Ratio Lower Upper

113 100

111 101.3 81.8 122.6

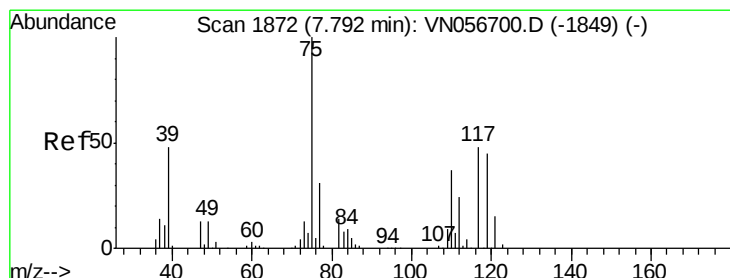
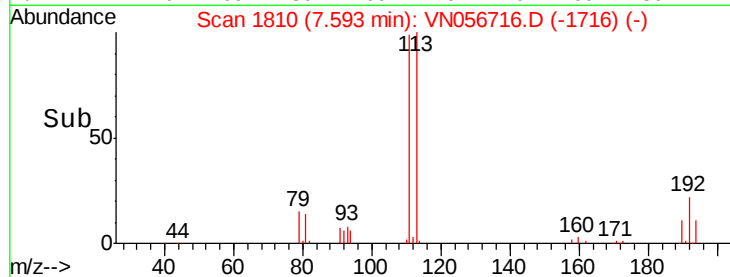
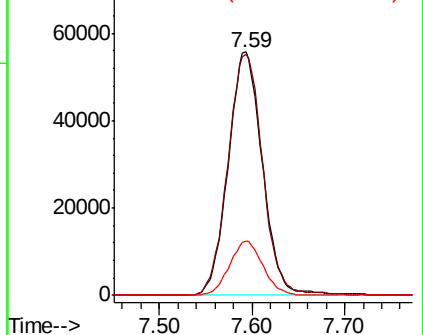
192 21.9 17.5 26.3



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: 4.155 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.12 min

Lab File: VN056716.D

Acq: 15 Jul 2019 16:49

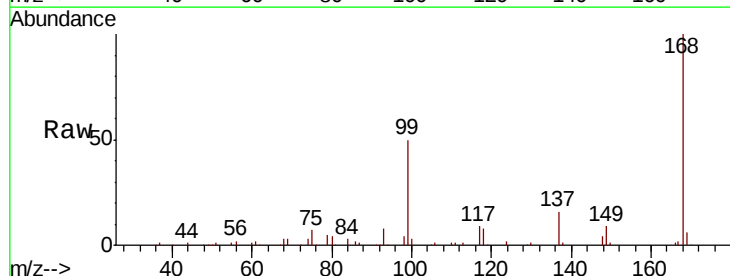
Tgt Ion: 75 Resp: 18160

Ion Ratio Lower Upper

75 100

110 9.1 18.4 55.4#

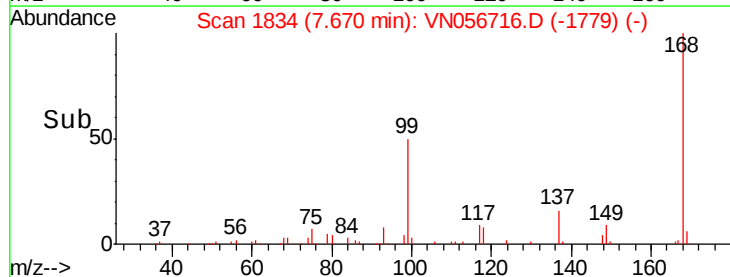
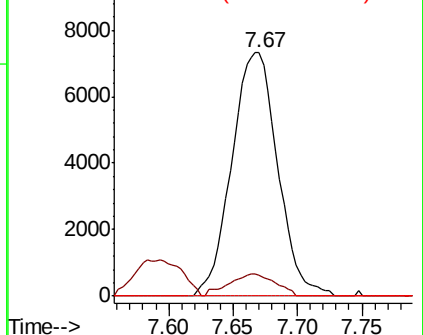
77 0.0 24.6 36.8#

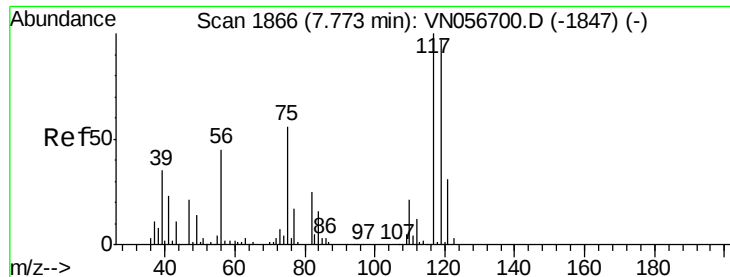


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.706 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN056716.D

Acq: 15 Jul 2019 16:49

Instrument :

MSVOA_N

ClientSampleId :

LC-TB04-190712

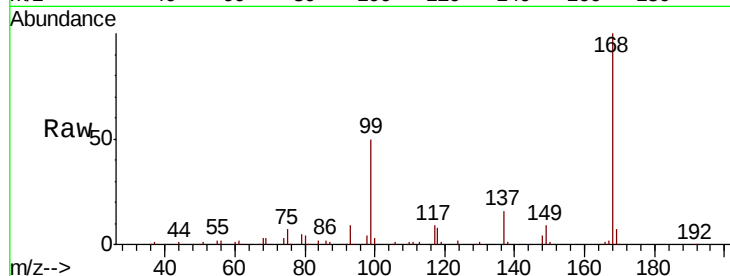
Tot Ion:117 Resp: 23388

Ion Ratio Lower Upper

117 100

119 6.0 77.5 116.3#

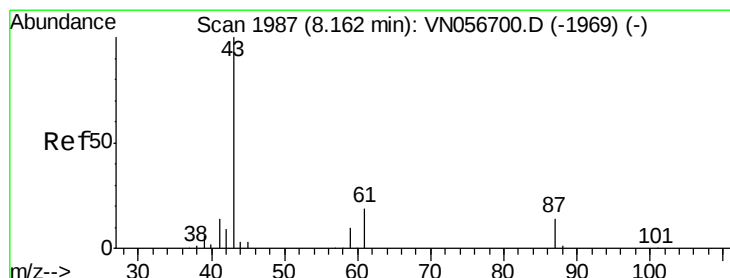
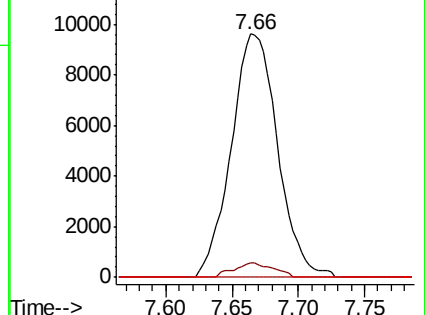
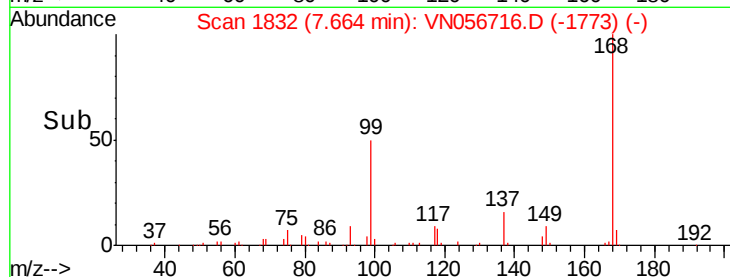
121 0.0 24.7 37.1#



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: 0.853 ug/l

RT: 8.30 min Scan# 2030

Delta R.T. 0.14 min

Lab File: VN056716.D

Acq: 15 Jul 2019 16:49

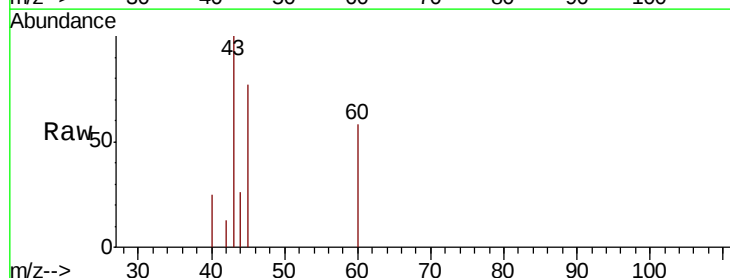
Tgt Ion: 43 Resp: 5774

Ion Ratio Lower Upper

43 100

61 0.0 22.3 33.5#

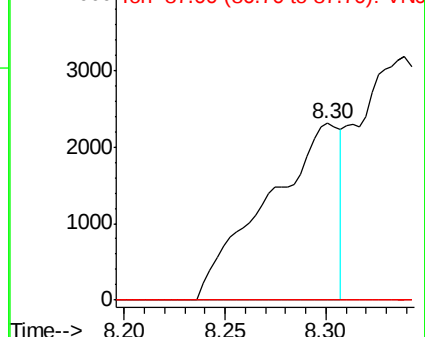
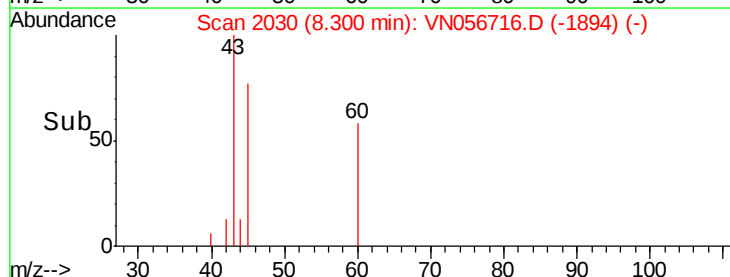
87 0.0 11.1 16.7#

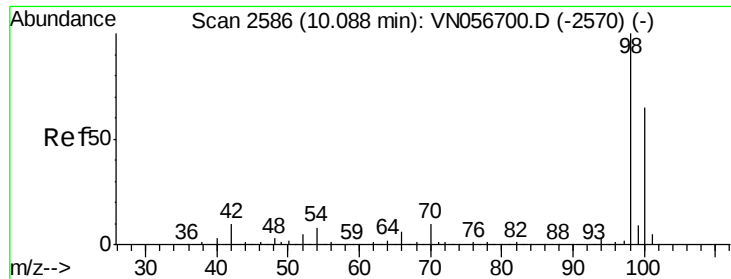


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#50

Toluene-d8

Concen: 51.985 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056716.D

Acq: 15 Jul 2019 16:49

Instrument :

MSVOA_N

ClientSampleId :

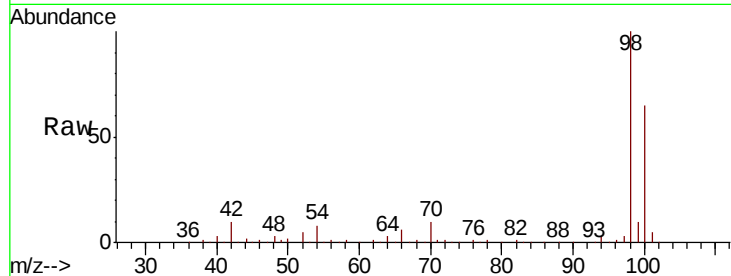
LC-TB04-190712

Tot Ion: 98 Resp: 590183

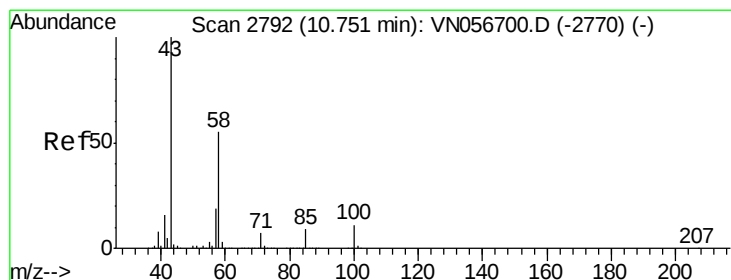
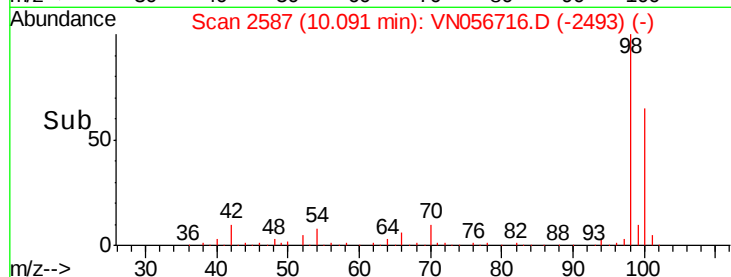
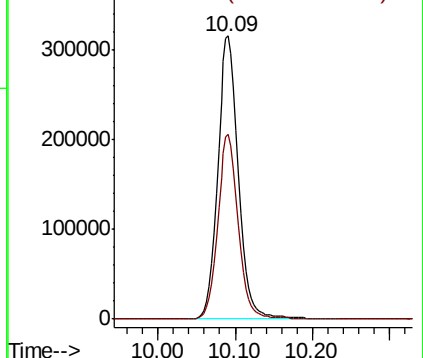
Ion Ratio Lower Upper

98 100

100 64.4 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN056716.D (-2493) (-)



#59

2-Hexanone

Concen: 0.311 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN056716.D

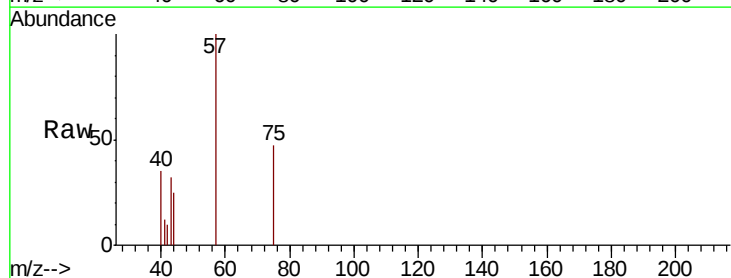
Acq: 15 Jul 2019 16:49

Tgt Ion: 43 Resp: 979

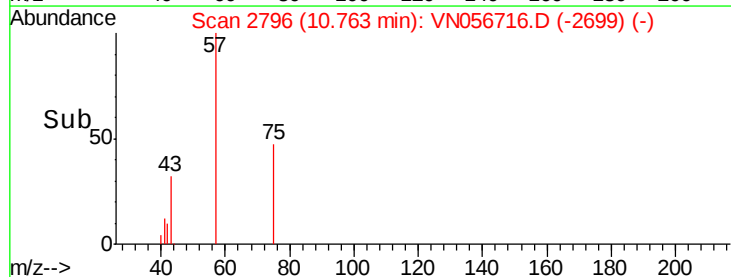
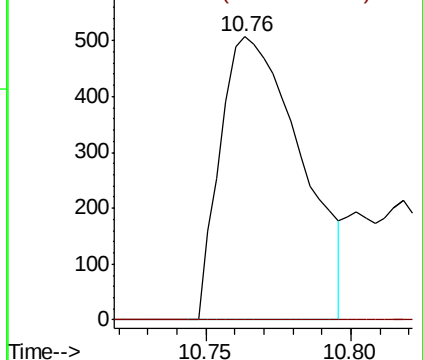
Ion Ratio Lower Upper

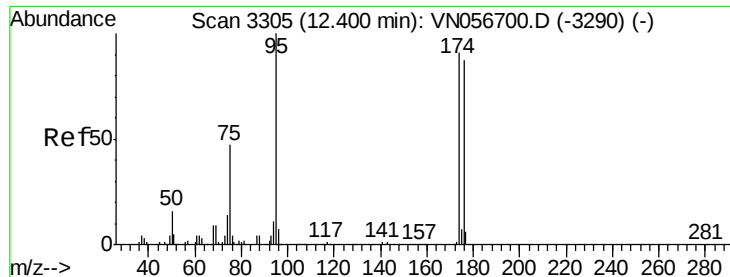
43 100

58 0.0 27.9 83.6#



Abundance Ion 43.00 (42.70 to 43.70): VN056716.D (-2699) (-)

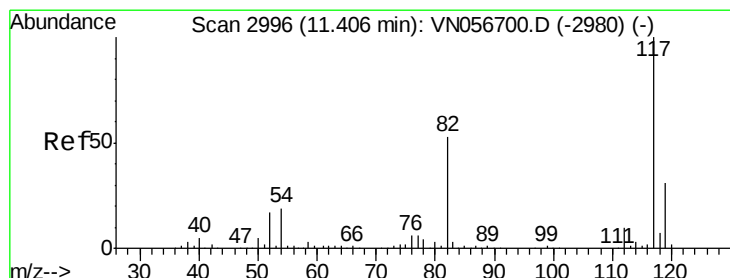
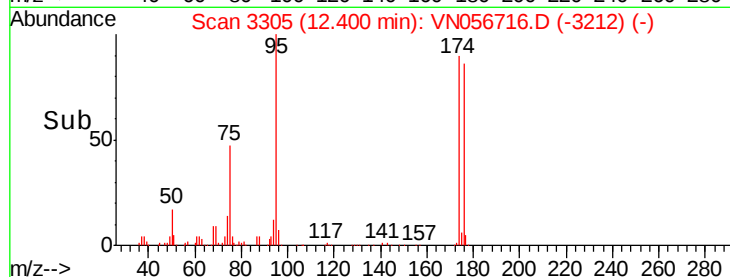
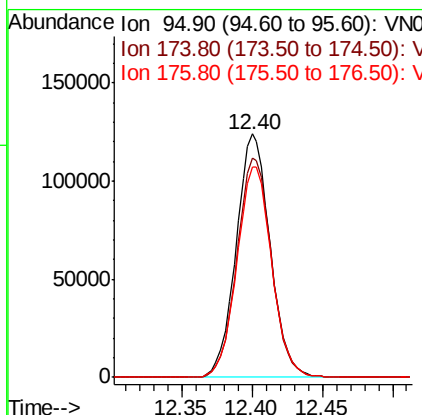
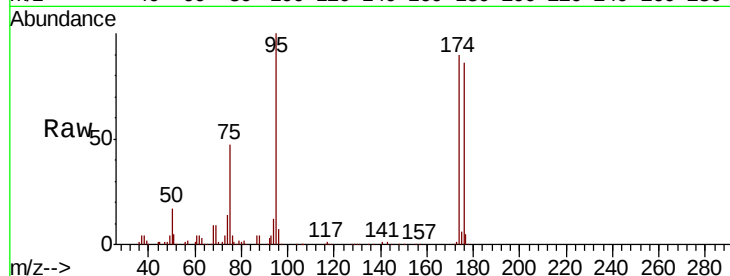




#62
4-Bromofluorobenzene
Concen: 54.671 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN056716.D
Acq: 15 Jul 2019 16:49

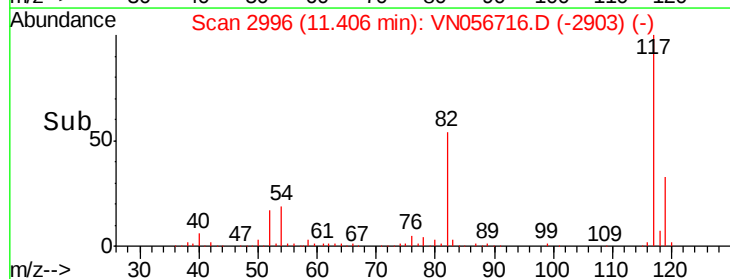
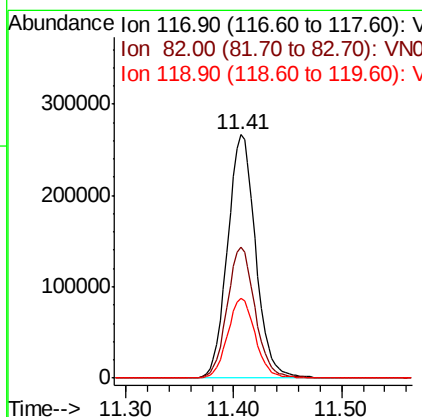
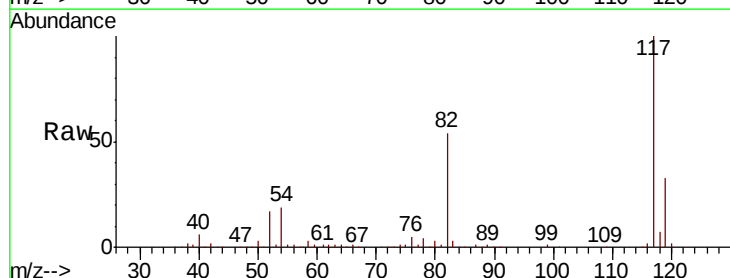
Instrument :
MSVOA_N
ClientSampleId :
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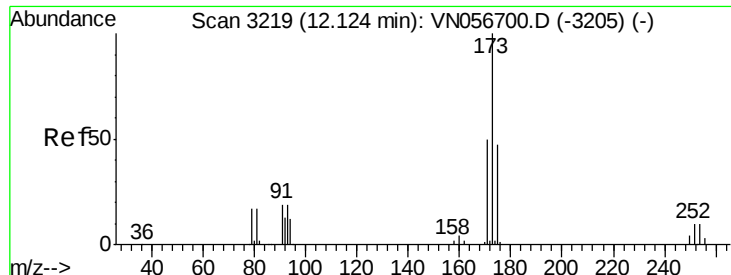
Tot Ion	Ratio	Lower	Upper
95	100		
174	91.6	0.0	180.0
176	88.5	0.0	173.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056716.D
Acq: 15 Jul 2019 16:49

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.9	42.2	63.2
119	32.8	25.2	37.8





#71

Bromoform

Concen: 0.561 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.28 min

Lab File: VN056716.D

Acq: 15 Jul 2019 16:49

Instrument :

MSVOA_N

ClientSampleId :

LC-TB04-190712

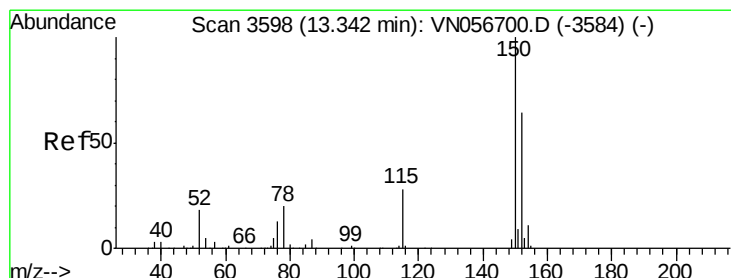
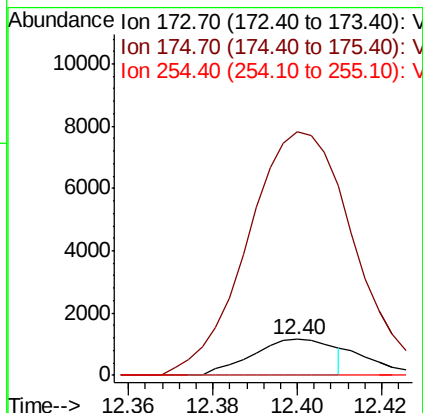
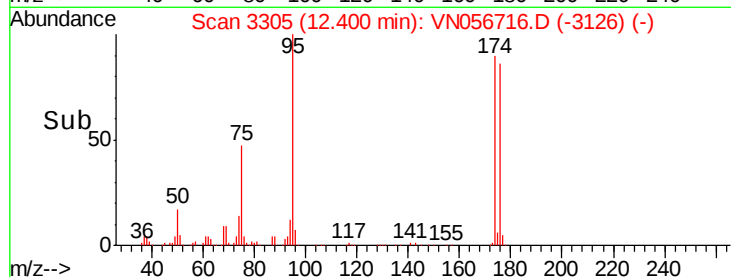
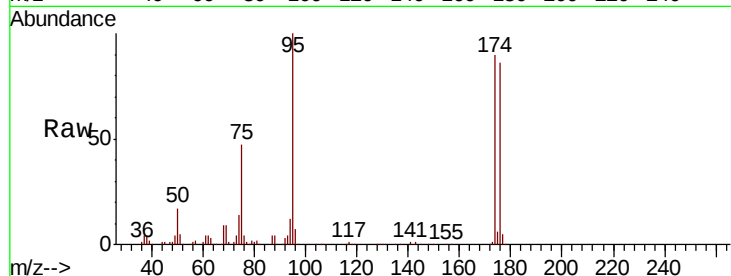
Tot Ion:173 Resp: 1543

Ion Ratio Lower Upper

173 100

175 724.0 23.8 71.4#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN056716.D

Acq: 15 Jul 2019 16:49

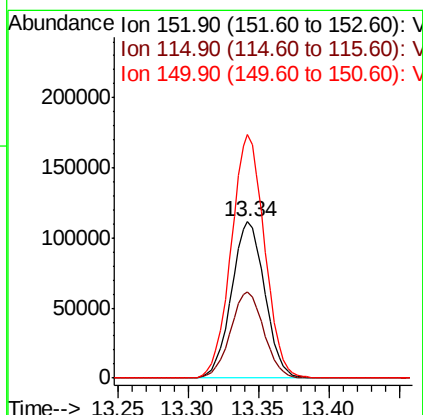
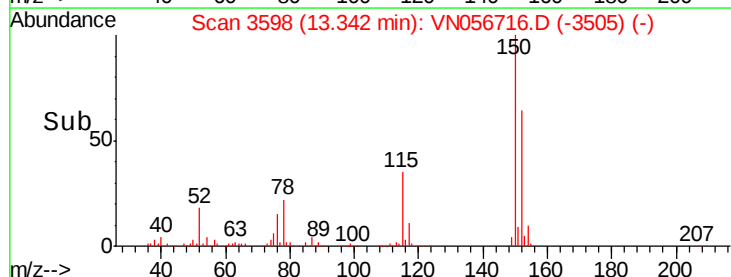
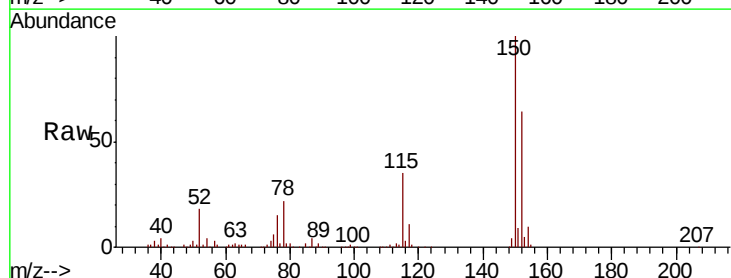
Tgt Ion:152 Resp: 184590

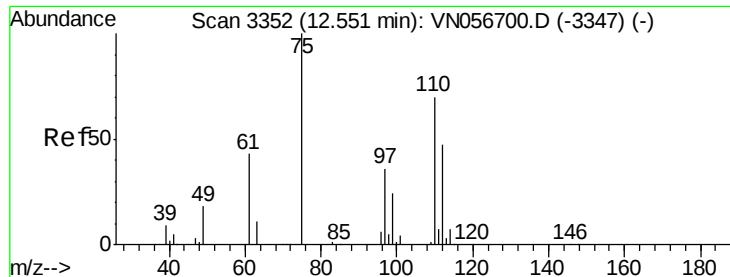
Ion Ratio Lower Upper

152 100

115 55.1 28.2 84.7

150 155.7 0.0 345.8





#76

1,2,3-Trichloropropane

Concen: 24.318 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056716.D

Acq: 15 Jul 2019 16:49

Instrument :

MSVOA_N

ClientSampleId :

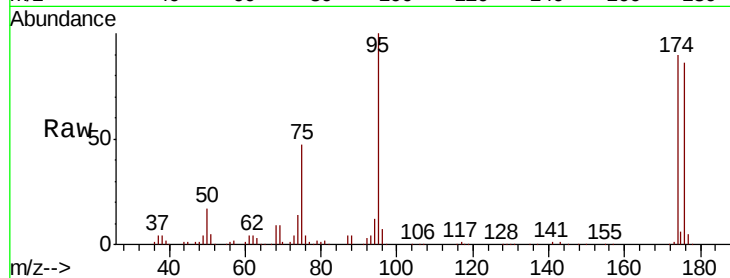
LC-TB04-190712

Tot Ion: 75 Resp: 98179

Ion Ratio Lower Upper

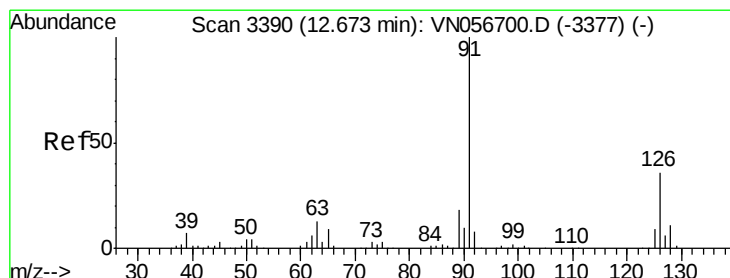
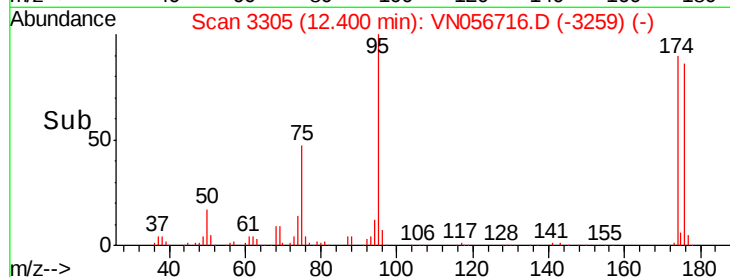
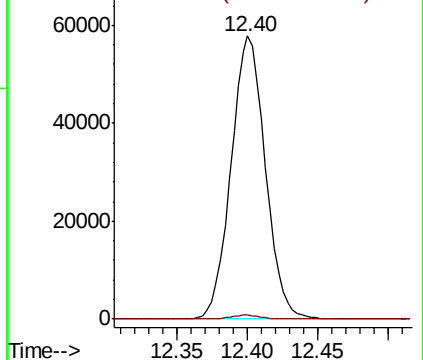
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.60 min Scan# 3366

Delta R.T. -0.08 min

Lab File: VN056716.D

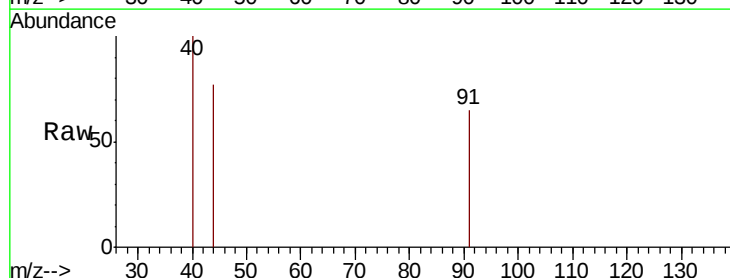
Acq: 15 Jul 2019 16:49

Tgt Ion: 91 Resp: 357

Ion Ratio Lower Upper

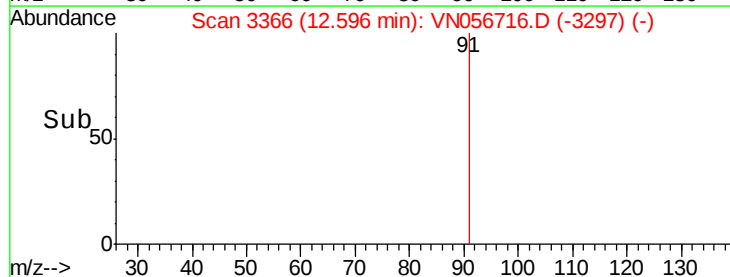
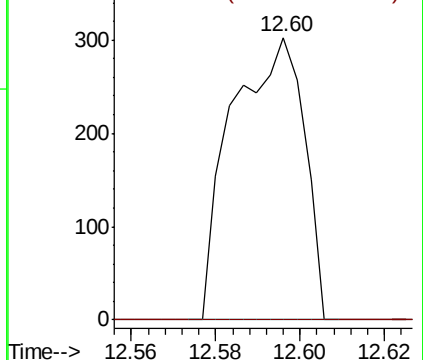
91 100

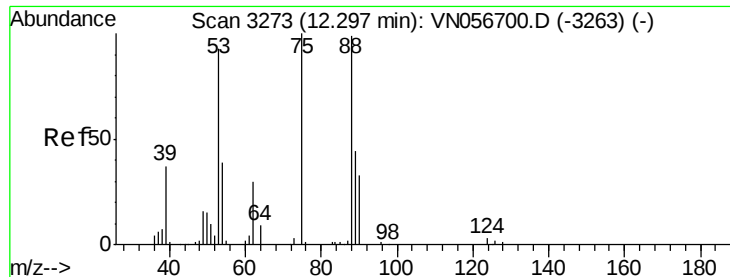
126 0.0 17.9 53.7#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 75.103 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056716.D

Acq: 15 Jul 2019 16:49

Instrument :

MSVOA_N

ClientSampleId :

LC-TB04-190712

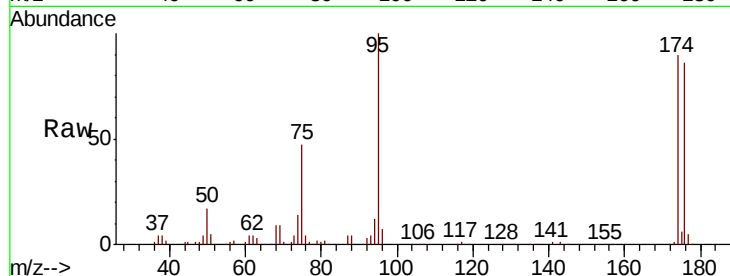
Tot Ion: 75 Resp: 98179

Ion Ratio Lower Upper

75 100

53 0.0 73.7 110.5#

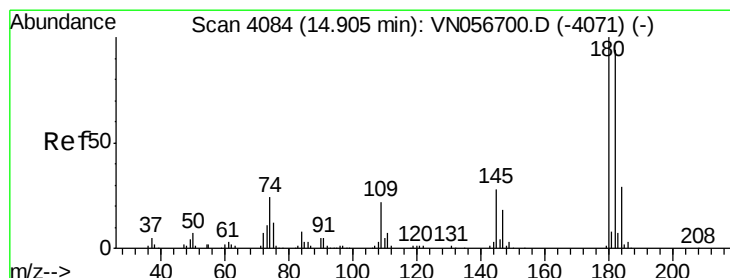
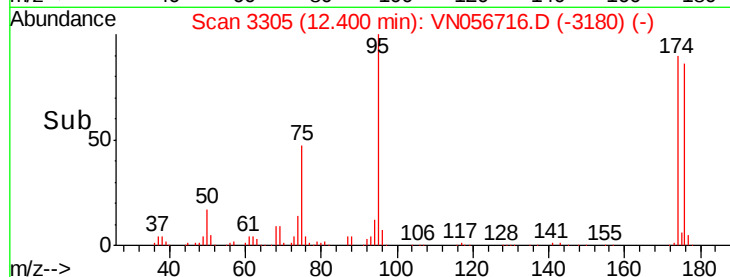
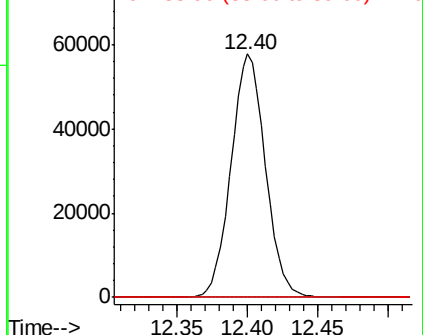
89 0.0 36.2 54.2#



Abundance Ion 74.90 (74.60 to 75.60): VN056716.D (-3180) (-)

Ion 53.00 (52.70 to 53.70): VN056716.D (-3180) (-)

Ion 88.90 (88.60 to 89.60): VN056716.D (-3180) (-)



#93

1,2,4-Trichlorobenzene

Concen: 3.731 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.01 min

Lab File: VN056716.D

Acq: 15 Jul 2019 16:49

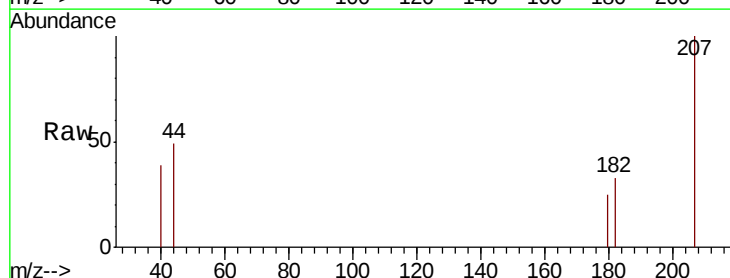
Tgt Ion: 180 Resp: 153

Ion Ratio Lower Upper

180 100

182 206.5 47.2 141.6#

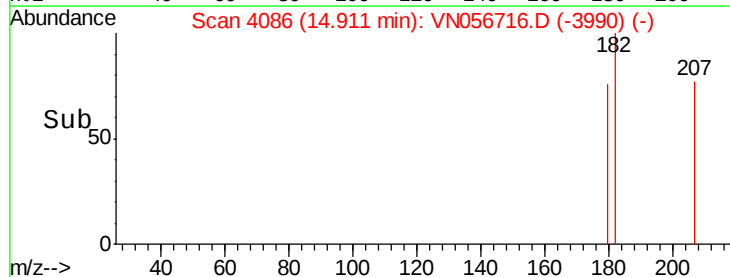
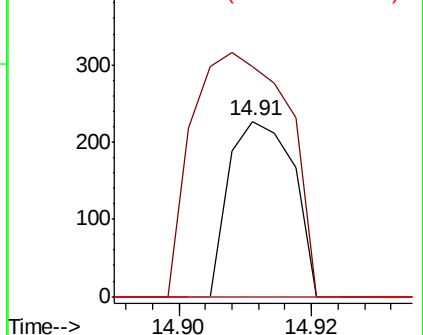
145 0.0 14.2 42.8#

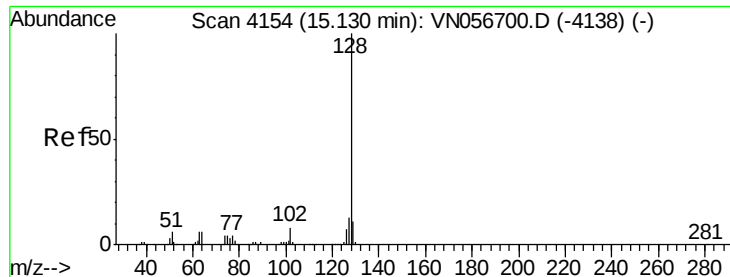


Abundance Ion 179.80 (179.50 to 180.50): VN056716.D (-3990) (-)

Ion 181.80 (181.50 to 182.50): VN056716.D (-3990) (-)

Ion 144.80 (144.50 to 145.50): VN056716.D (-3990) (-)





#95

Naphthalene

Concen: 4.602 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056716.D

Acq: 15 Jul 2019 16:49

Instrument :

MSVOA_N

ClientSampleId :

LC-TB04-190712

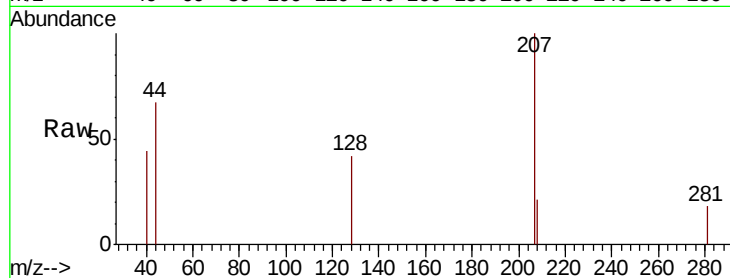
Tot Ion:128 Resp: 832

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.7 13.1#

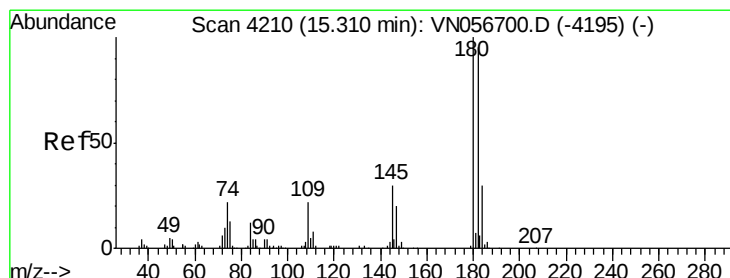
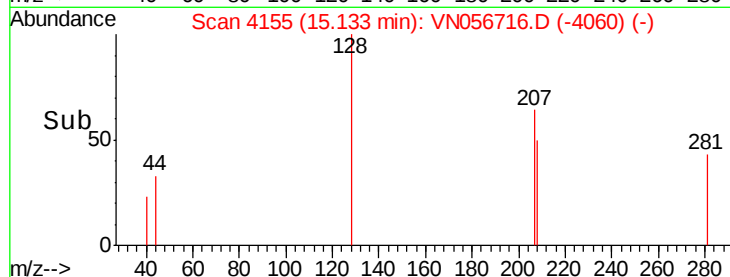
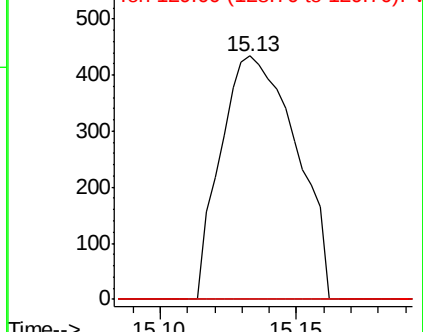


Abundance

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: 3.413 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.01 min

Lab File: VN056716.D

Acq: 15 Jul 2019 16:49

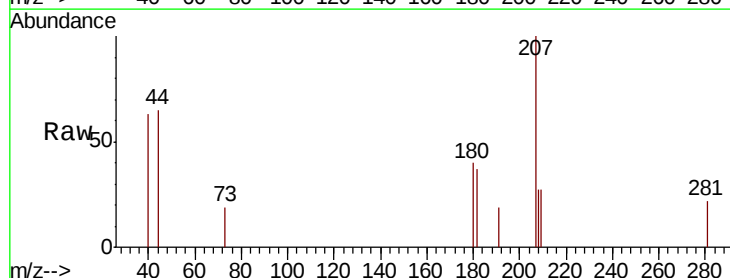
Tgt Ion:180 Resp: 347

Ion Ratio Lower Upper

180 100

182 93.1 47.1 141.3

145 0.0 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

