

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061019\
 Data File : VN056157.D
 Acq On : 10 Jun 2019 9:56
 Operator : JC/SP
 Sample : VN0610WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0610WBL01

Quant Time: Jun 11 02:17:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

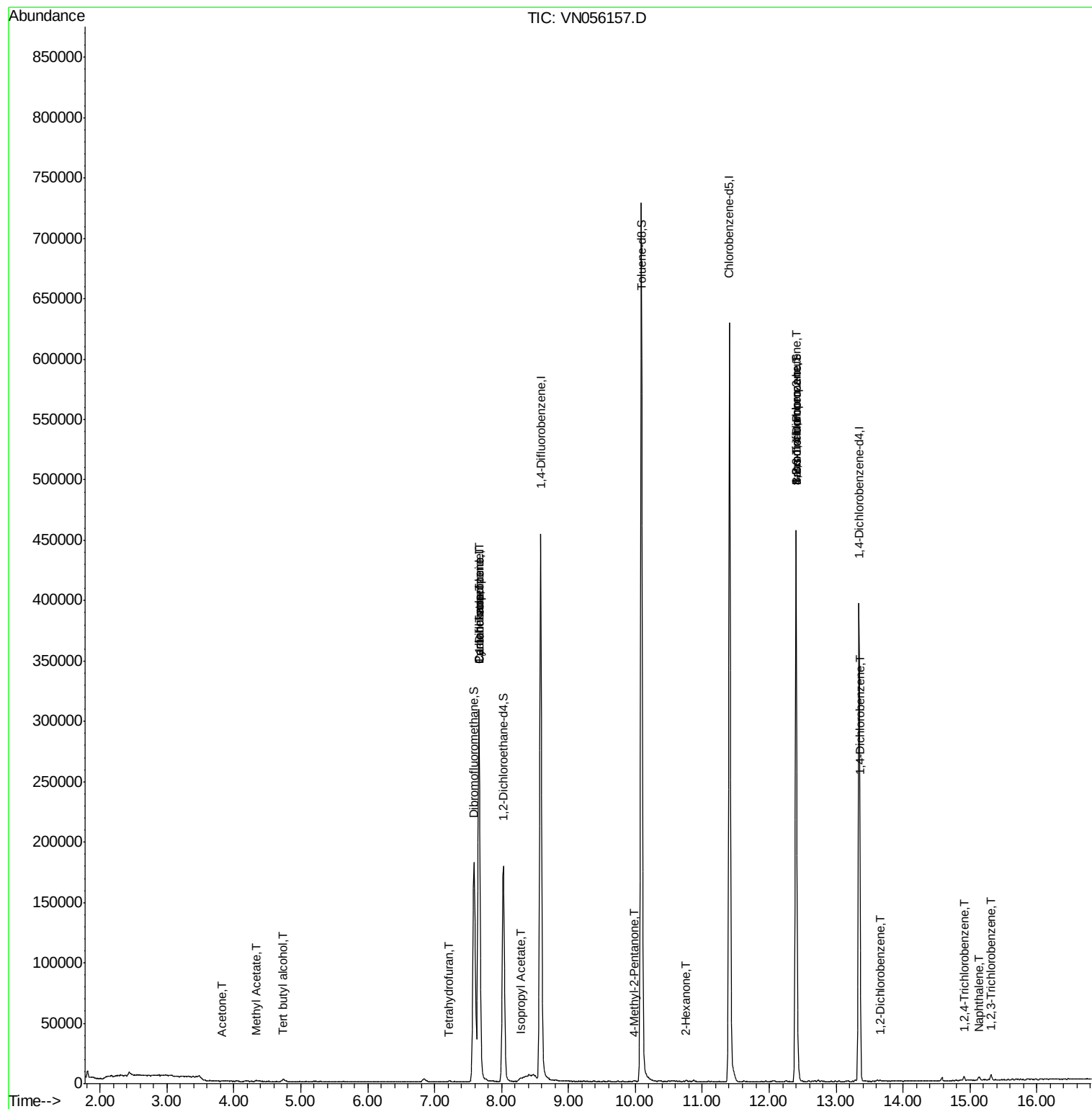
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	292845	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	443159	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	412863	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	121780	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	152404	52.41	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.82%	
35) Dibromofluoromethane	7.59	113	143434	52.75	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.50%	
50) Toluene-d8	10.09	98	548422	52.42	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.84%	
62) 4-Bromofluorobenzene	12.40	95	162457	45.66	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.32%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.74	59	1771	3.500	ug/l #	74
16) Acetone	3.82	43	339	0.244	ug/l #	41
18) Methyl Acetate	4.33	43	2155	0.213	ug/l #	60
29) Tetrahydrofuran	7.22	42	434	0.400	ug/l #	32
31) Cyclohexane	7.66	56	4327	0.938	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	16742	4.394	ug/l #	48
38) Carbon Tetrachloride	7.66	117	23614	6.722	ug/l #	15
43) Isopropyl Acetate	8.28	43	2904	0.529	ug/l #	53
51) 4-Methyl-2-Pentanone	9.99	43	1005	0.293	ug/l #	35
59) 2-Hexanone	10.75	43	1507	0.605	ug/l #	50
71) Bromoform	12.40	173	1169	3.206	ug/l #	1
73) Isopropylbenzene	12.25	105	448	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	75778	33.817	ug/l #	100
79) 2-Chlorotoluene	12.68	91	466	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	75778	112.618	ug/l #	15
83) tert-Butylbenzene	12.99	119	328	Below Cal	#	75
88) 1,4-Dichlorobenzene	13.36	146	824	0.212	ug/l #	43
91) 1,2-Dichlorobenzene	13.65	146	836	0.205	ug/l #	80
93) 1,2,4-Trichlorobenzene	14.91	180	1549	4.901	ug/l	93
94) Hexachlorobutadiene	15.01	225	174	Below Cal	#	19
95) Naphthalene	15.14	128	3814	4.456	ug/l #	85
96) 1,2,3-Trichlorobenzene	15.31	180	2205	3.936	ug/l	96

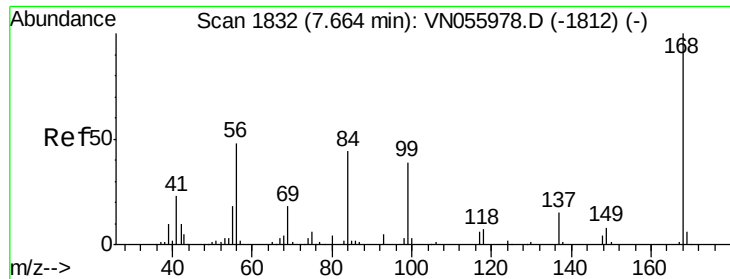
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jun 04 11:02:09 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056157.D

Acq: 10 Jun 2019 9:56

Instrument :

MSVOA_N

ClientSampled :

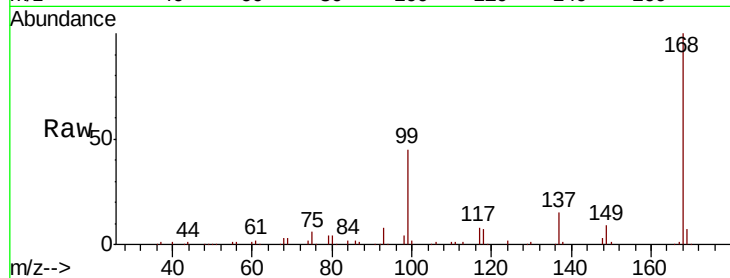
VN0610WBL01

Tot Ion:168 Resp: 292845

Ion Ratio Lower Upper

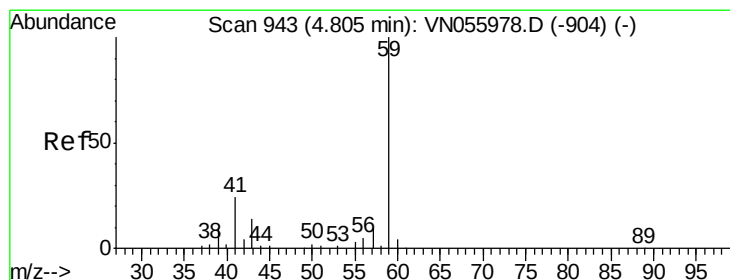
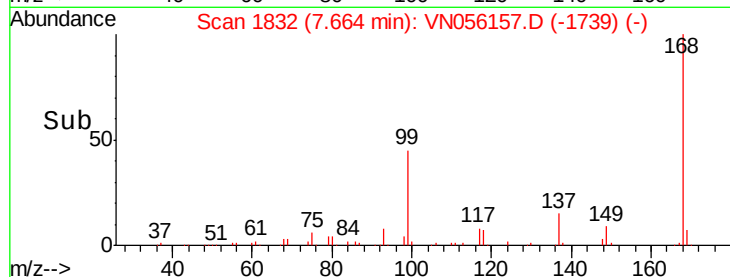
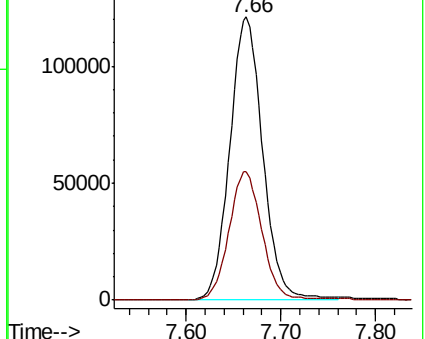
168 100

99 45.4 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#11

Tert butyl alcohol

Concen: 3.500 ug/l

RT: 4.74 min Scan# 923

Delta R.T. -0.06 min

Lab File: VN056157.D

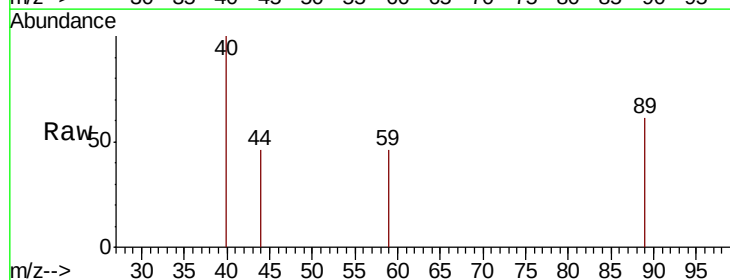
Acq: 10 Jun 2019 9:56

Tgt Ion: 59 Resp: 1771

Ion Ratio Lower Upper

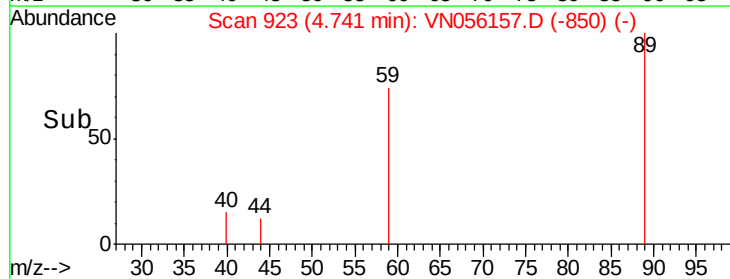
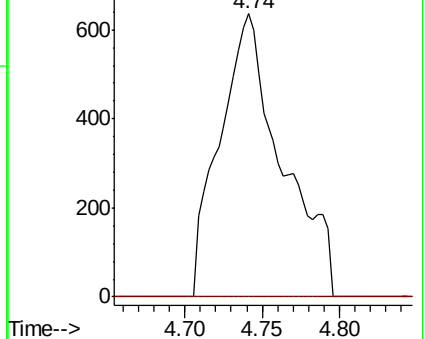
59 100

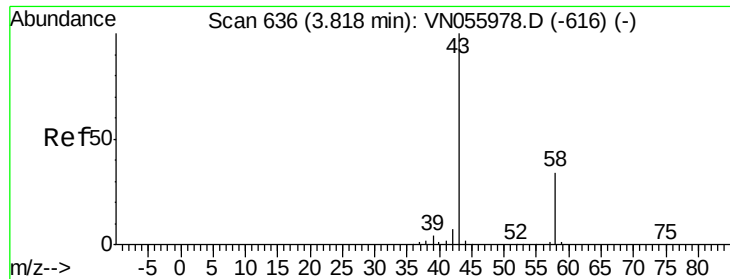
57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: 0.244 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN056157.D

Acq: 10 Jun 2019 9:56

Instrument :

MSVOA_N

ClientSampleId :

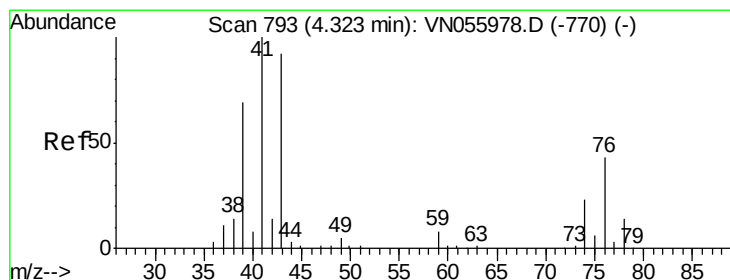
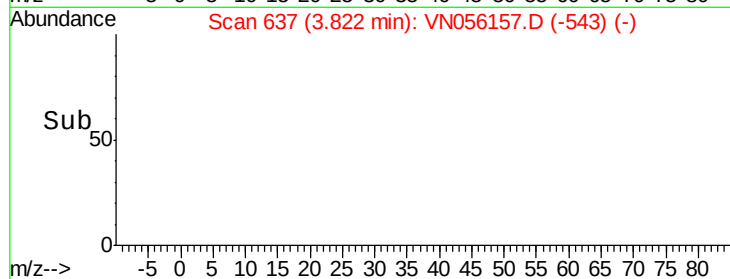
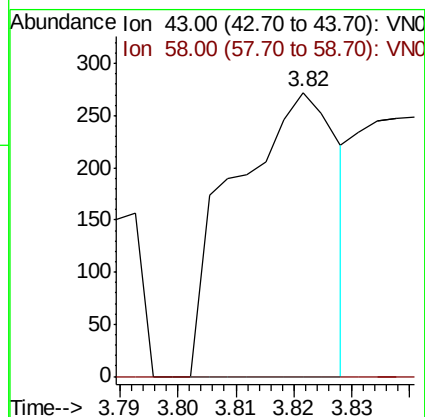
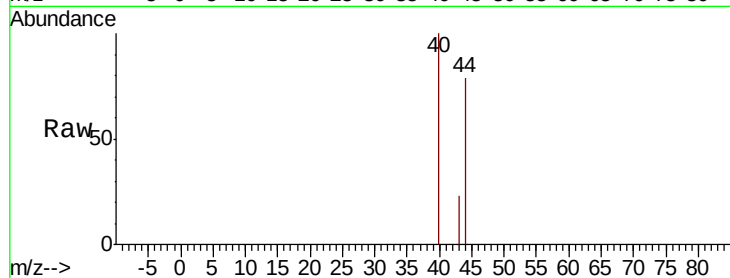
VN0610WBL01

Tot Ion: 43 Resp: 339

Ion Ratio Lower Upper

43 100

58 0.0 26.6 39.8#



#18

Methyl Acetate

Concen: 0.213 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN056157.D

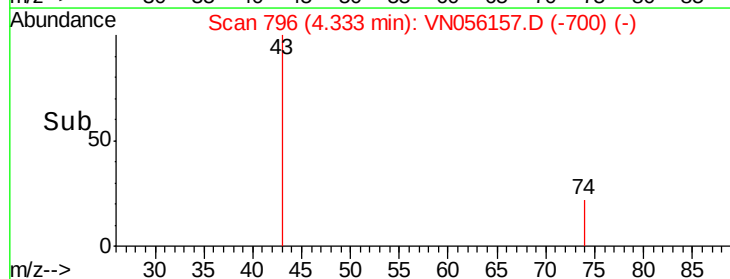
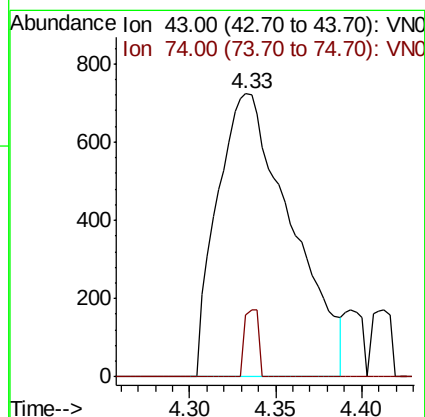
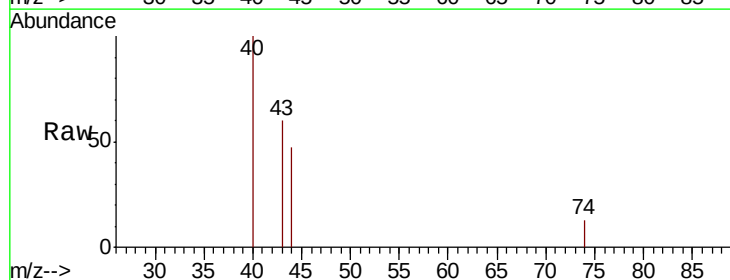
Acq: 10 Jun 2019 9:56

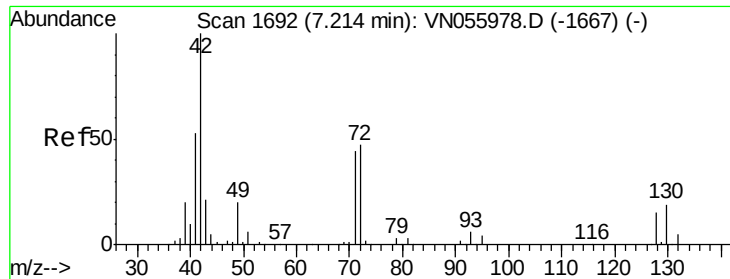
Tgt Ion: 43 Resp: 2155

Ion Ratio Lower Upper

43 100

74 4.5 19.3 28.9#





#29

Tetrahydrofuran

Concen: 0.400 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN056157.D

Acq: 10 Jun 2019 9:56

Instrument :

MSVOA_N

ClientSampleId :

VN0610WBL01

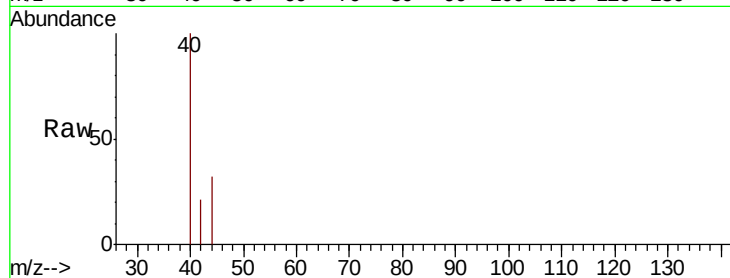
Tot Ion: 42 Resp: 434

Ion Ratio Lower Upper

42 100

72 0.0 35.9 53.9#

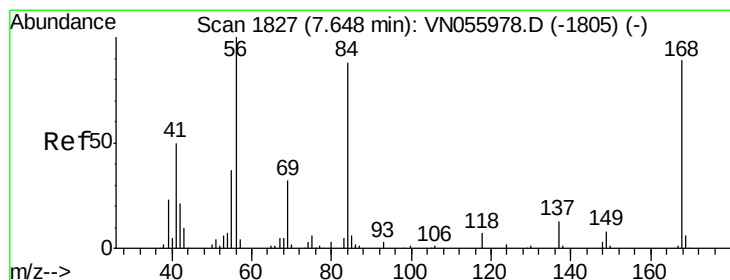
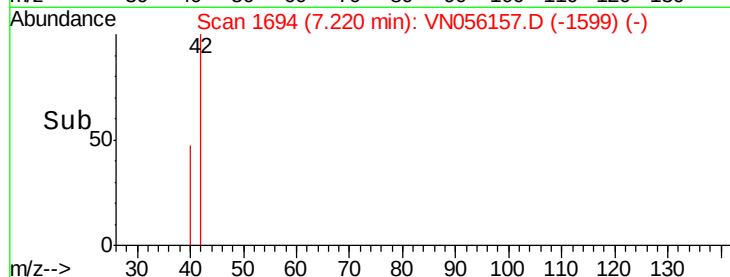
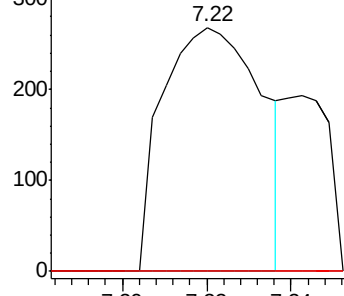
71 0.0 34.0 51.0#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 0.938 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN056157.D

Acq: 10 Jun 2019 9:56

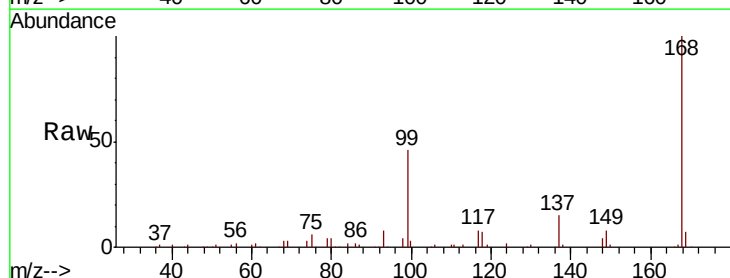
Tgt Ion: 56 Resp: 4327

Ion Ratio Lower Upper

56 100

69 181.3 25.6 38.4#

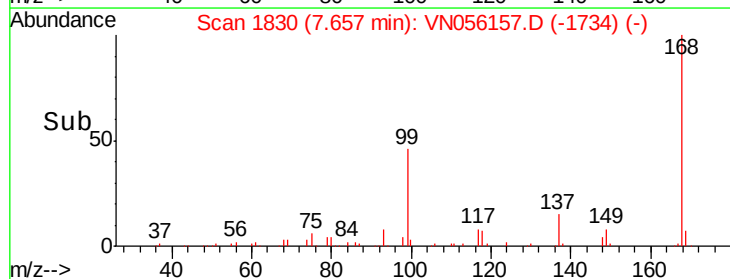
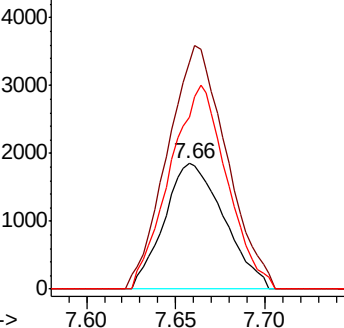
84 136.8 67.4 101.0#

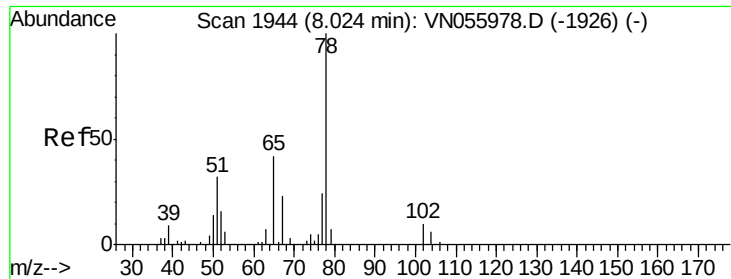


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

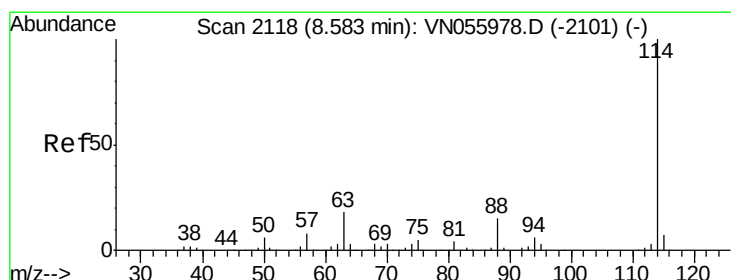
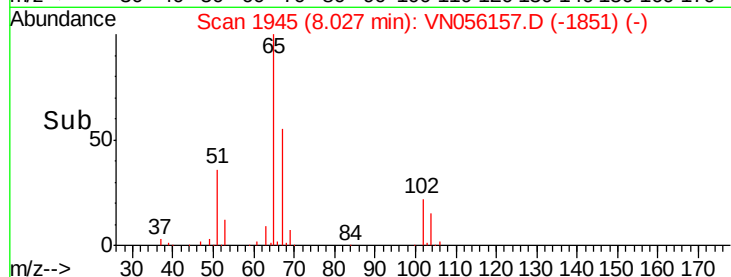
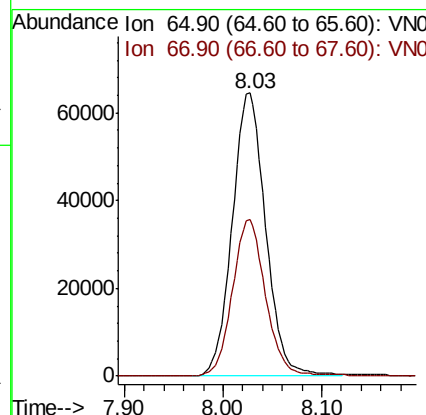
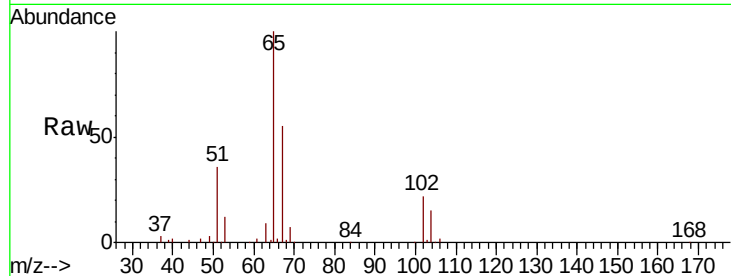




#33
 1,2-Dichloroethane-d4
 Concen: 52.414 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056157.D
 Acq: 10 Jun 2019 9:56

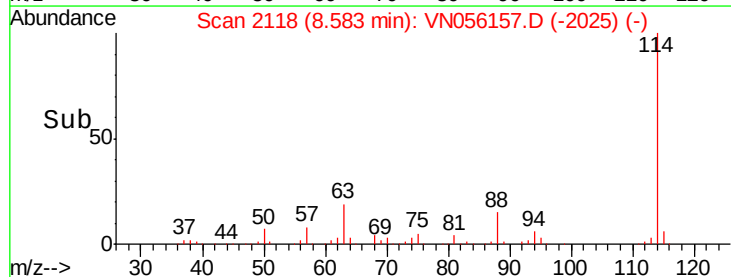
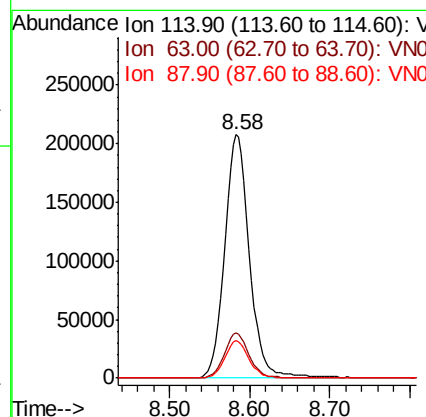
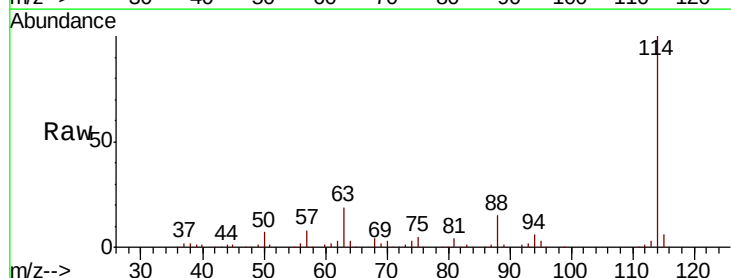
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0610WBL01

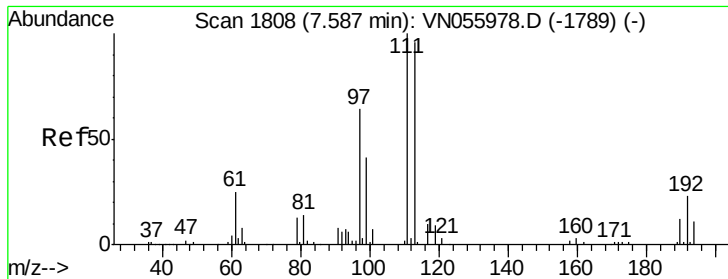
Tot Ion: 65 Resp: 152404
 Ion Ratio Lower Upper
 65 100
 67 55.0 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN056157.D
 Acq: 10 Jun 2019 9:56

Tgt Ion: 114 Resp: 443159
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 39.2
 88 15.3 0.0 31.0

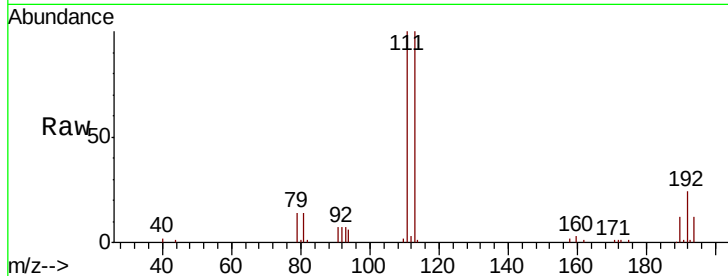




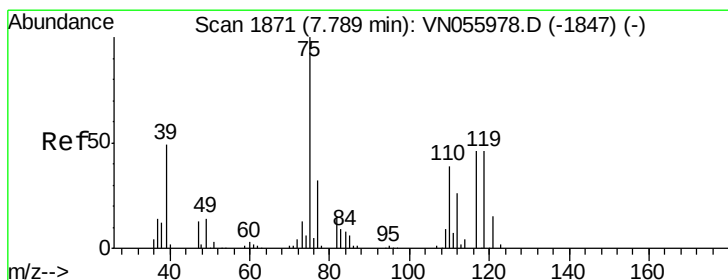
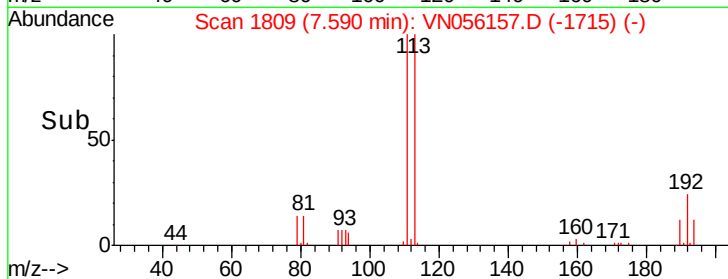
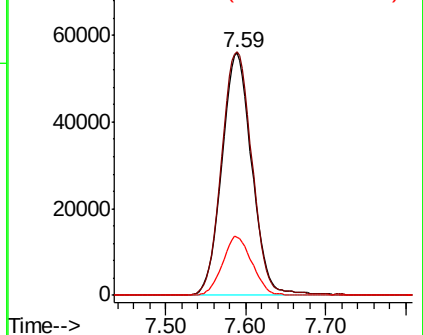
#35
 Dibromofluoromethane
 Concen: 52.754 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056157.D
 Acq: 10 Jun 2019 9:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0610WBL01

Tot Ion:113 Resp: 143434
 Ion Ratio Lower Upper
 113 100
 111 102.7 81.9 122.9
 192 23.9 19.5 29.3

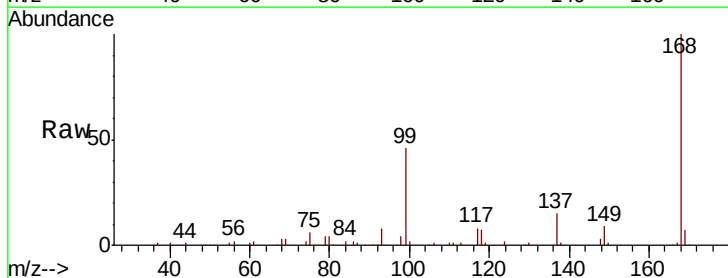


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

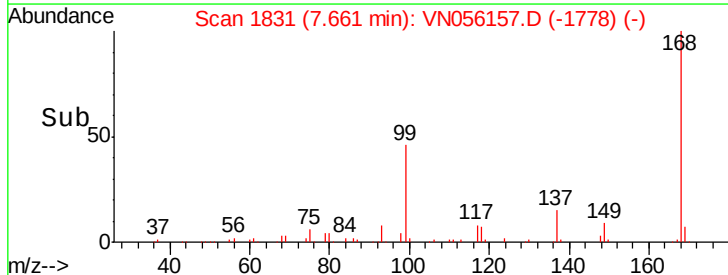
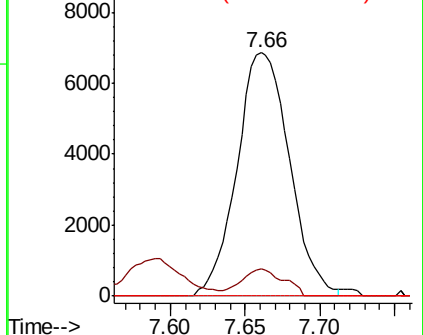


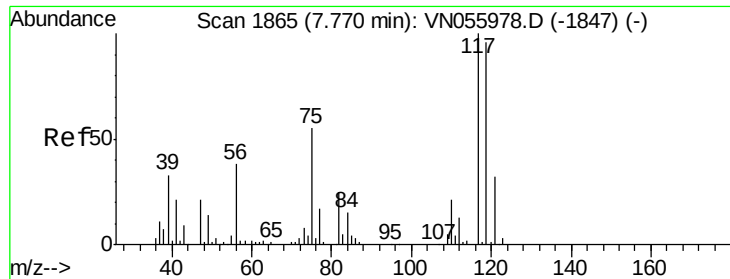
#36
 1,1-Dichloropropene
 Concen: 4.394 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN056157.D
 Acq: 10 Jun 2019 9:56

Tgt Ion: 75 Resp: 16742
 Ion Ratio Lower Upper
 75 100
 110 8.9 19.0 57.0#
 77 0.0 25.1 37.7#



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





#38

Carbon Tetrachloride

Concen: 6.722 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN056157.D

Acq: 10 Jun 2019 9:56

Instrument :

MSVOA_N

ClientSampled :

VN0610WBL01

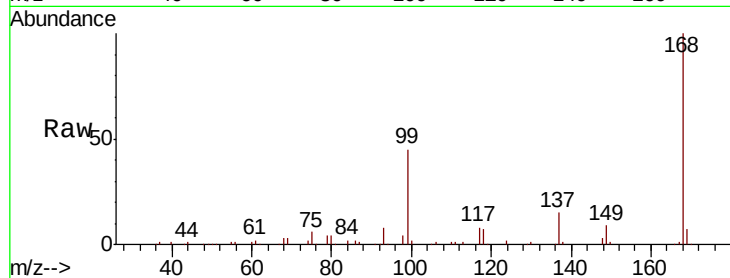
Tot Ion:117 Resp: 23614

Ion Ratio Lower Upper

117 100

119 5.7 79.0 118.6#

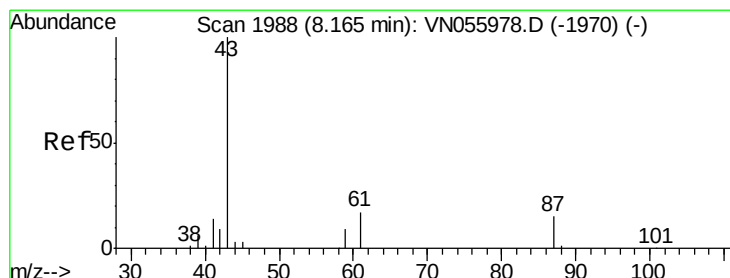
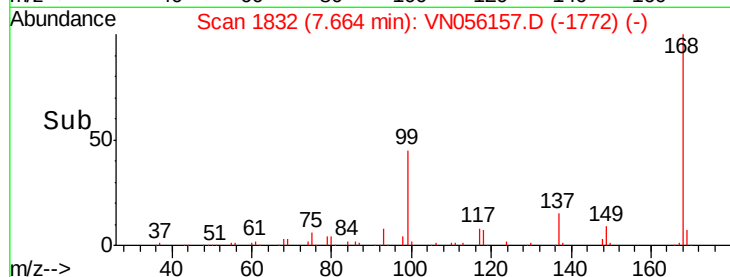
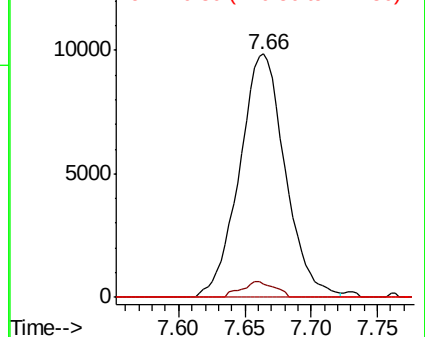
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 0.529 ug/l

RT: 8.28 min Scan# 2023

Delta R.T. 0.11 min

Lab File: VN056157.D

Acq: 10 Jun 2019 9:56

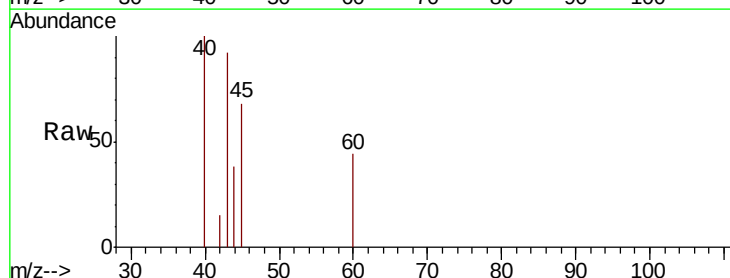
Tgt Ion: 43 Resp: 2904

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

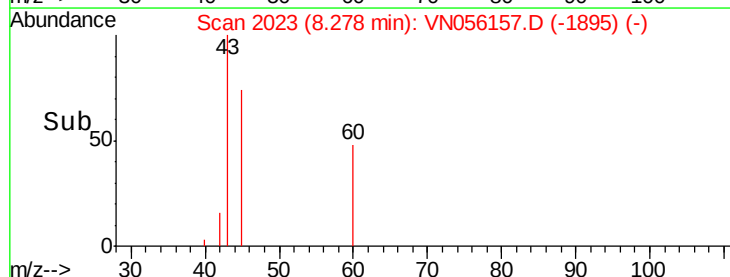
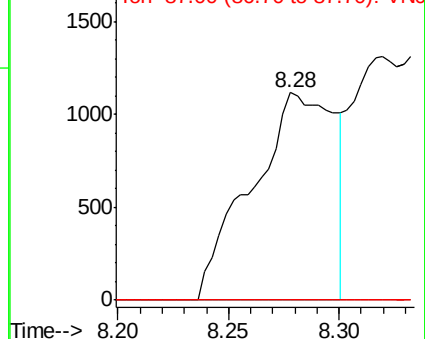
87 0.0 11.4 17.2#

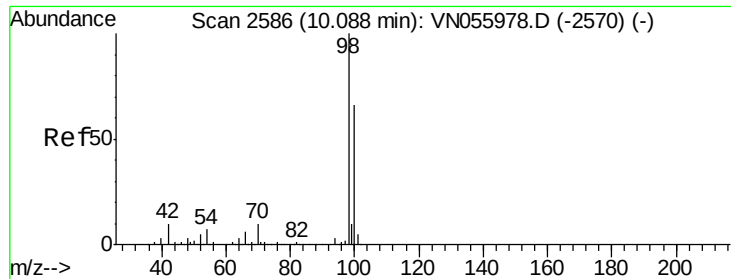


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

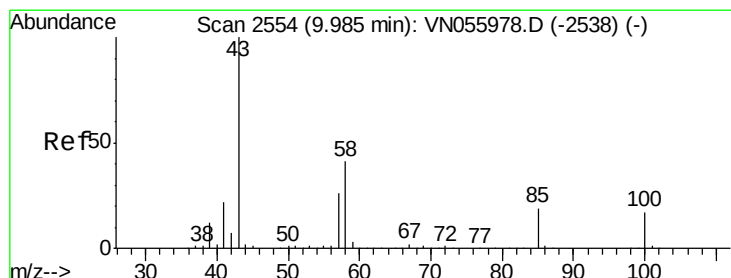
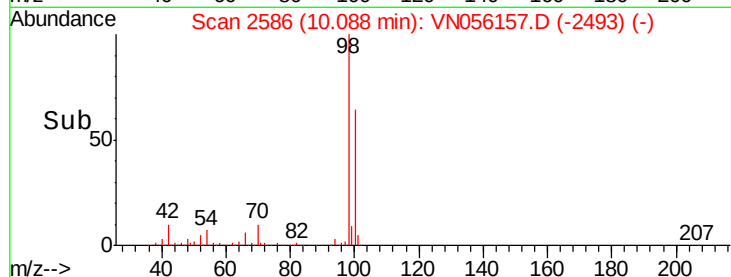
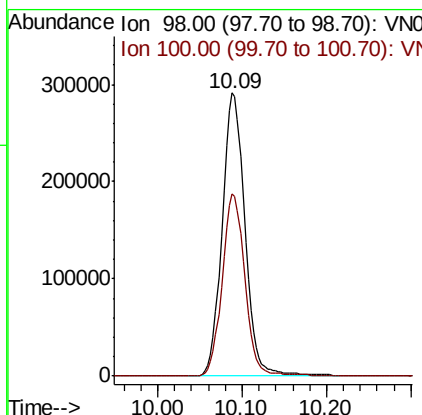
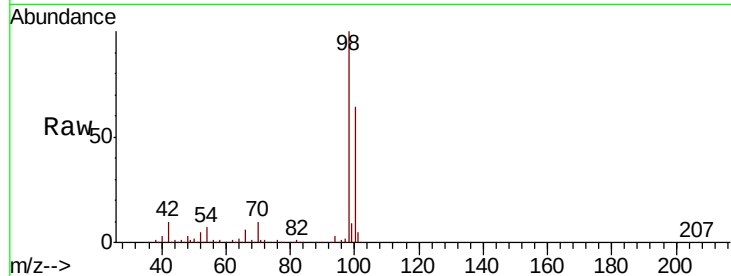




#50
Toluene-d8
Concen: 52.418 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN056157.D
Acq: 10 Jun 2019 9:56

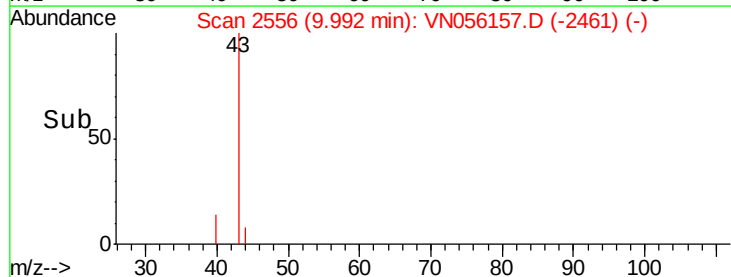
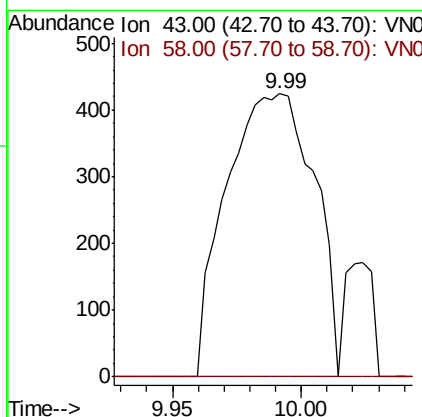
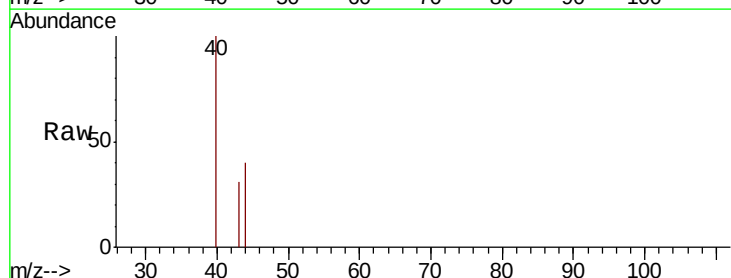
Instrument :
MSVOA_N
ClientSampleId :
VN0610WBL01

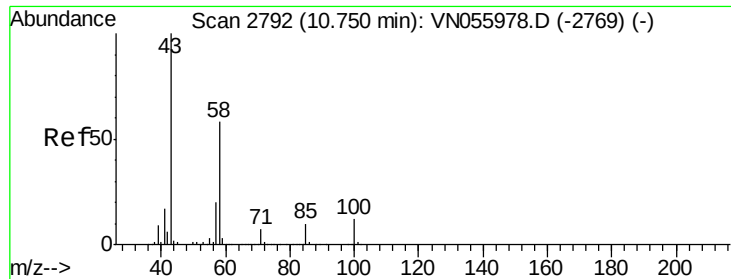
Tot Ion: 98 Resp: 548422
Ion Ratio Lower Upper
98 100
100 64.1 51.9 77.9



#51
4-Methyl-2-Pentanone
Concen: 0.293 ug/l
RT: 9.99 min Scan# 2556
Delta R.T. 0.01 min
Lab File: VN056157.D
Acq: 10 Jun 2019 9:56

Tgt Ion: 43 Resp: 1005
Ion Ratio Lower Upper
43 100
58 0.0 32.1 48.1#

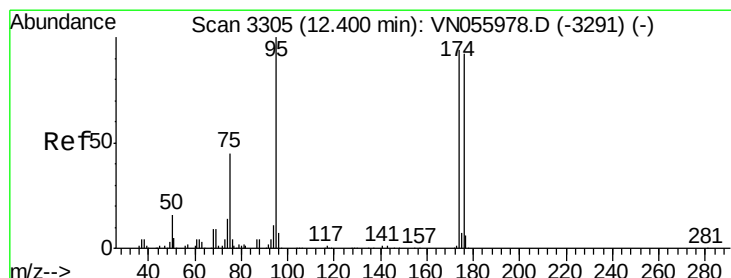
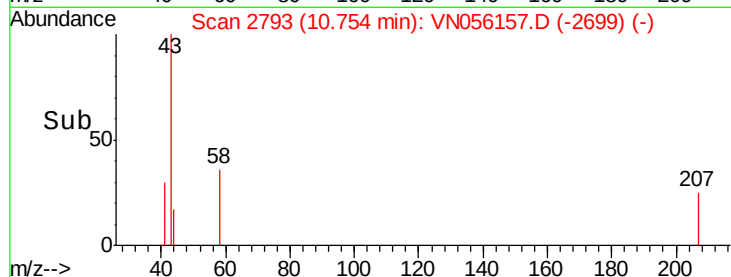
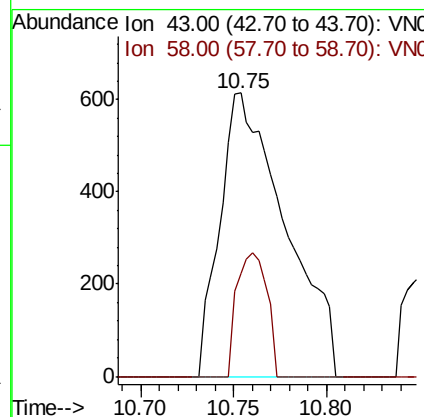
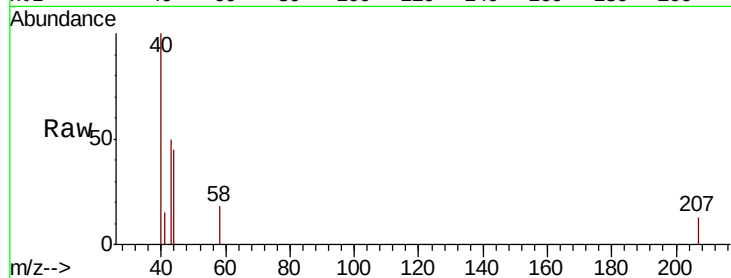




#59
2-Hexanone
Concen: 0.605 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN056157.D
Acq: 10 Jun 2019 9:56

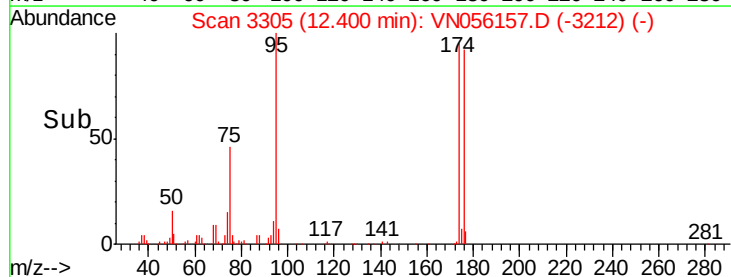
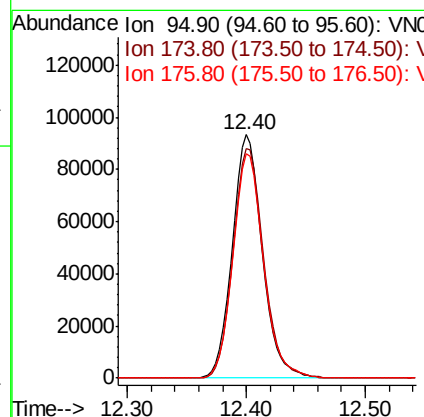
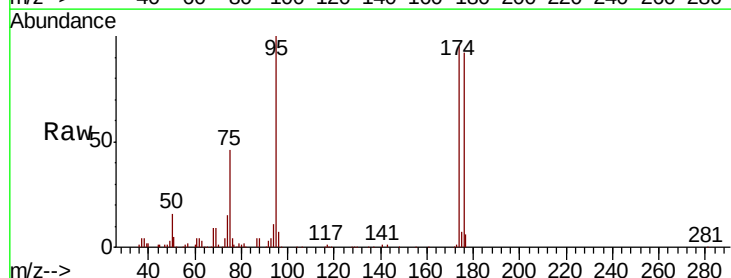
Instrument :
MSVOA_N
ClientSampleId :
VN0610WBL01

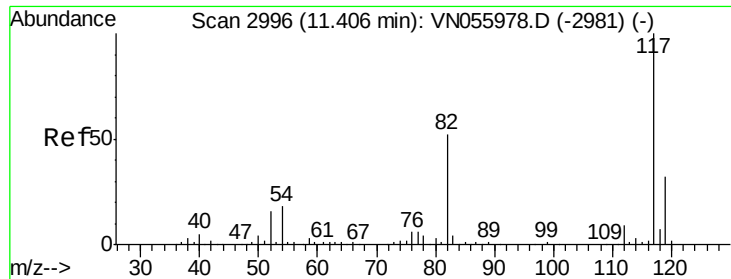
Tot Ion: 43 Resp: 1507
Ion Ratio Lower Upper
43 100
58 19.8 28.2 84.7#



#62
4-Bromofluorobenzene
Concen: 45.659 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056157.D
Acq: 10 Jun 2019 9:56

Tgt Ion: 95 Resp: 162457
Ion Ratio Lower Upper
95 100
174 96.8 0.0 191.0
176 94.1 0.0 185.2

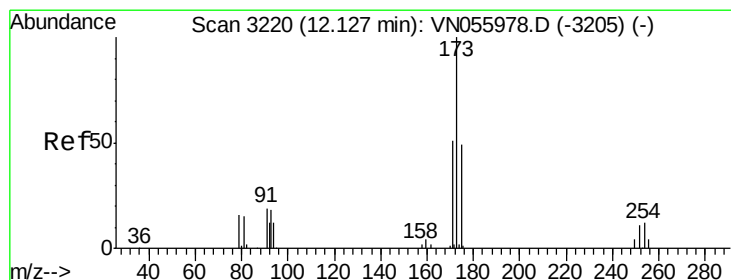
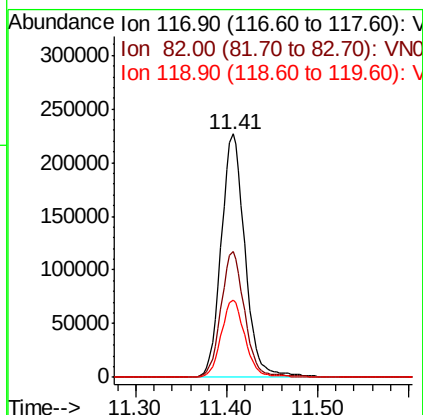
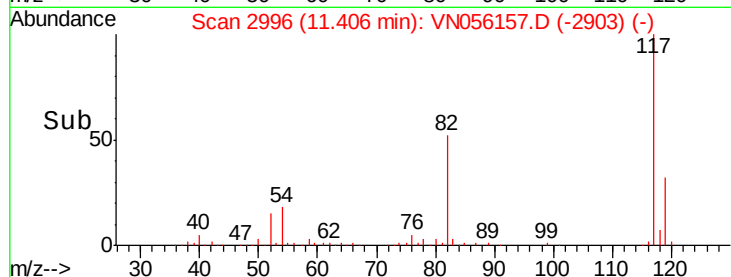
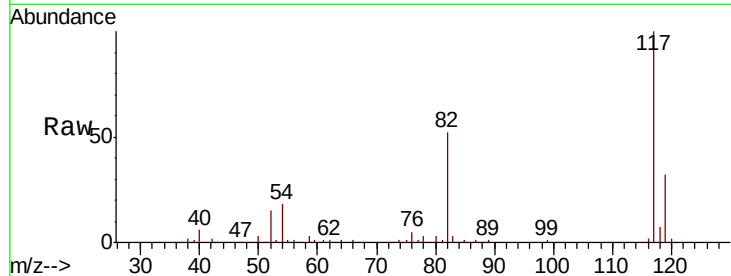




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056157.D
Acq: 10 Jun 2019 9:56

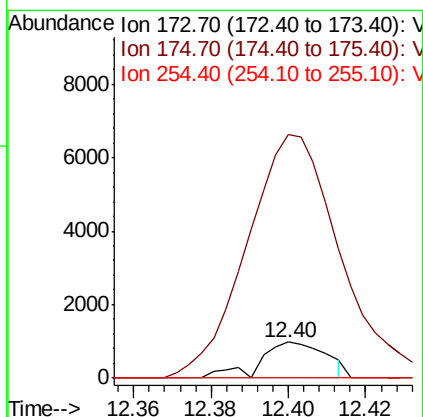
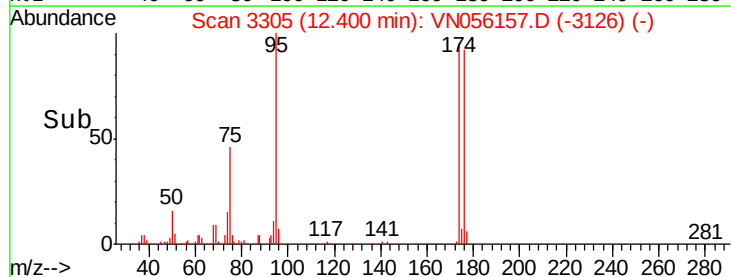
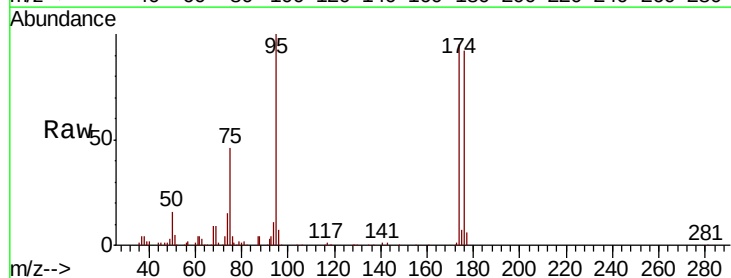
Instrument :
MSVOA_N
ClientSampleId :
VN0610WBL01

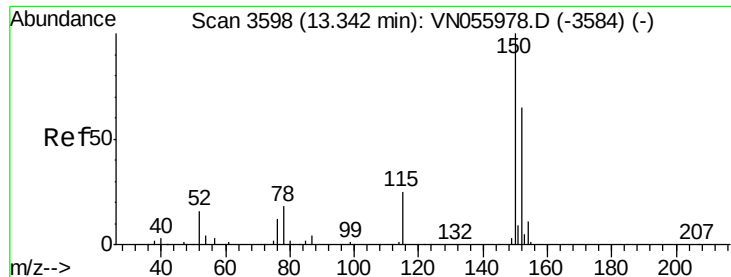
Tot Ion:117 Resp: 412863
Ion Ratio Lower Upper
117 100
82 51.5 41.8 62.8
119 32.0 25.4 38.0



#71
Bromoform
Concen: 3.206 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN056157.D
Acq: 10 Jun 2019 9:56

Tgt Ion:173 Resp: 1169
Ion Ratio Lower Upper
173 100
175 820.9 24.3 72.8#
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: VN056157.D

Acq: 10 Jun 2019 9:56

Instrument :

MSVOA_N

ClientSampleId :

VN0610WBL01

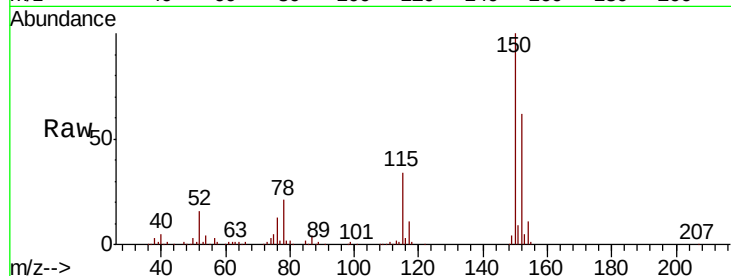
Tot Ion:152 Resp: 121780

Ion Ratio Lower Upper

152 100

115 53.6 27.0 81.0

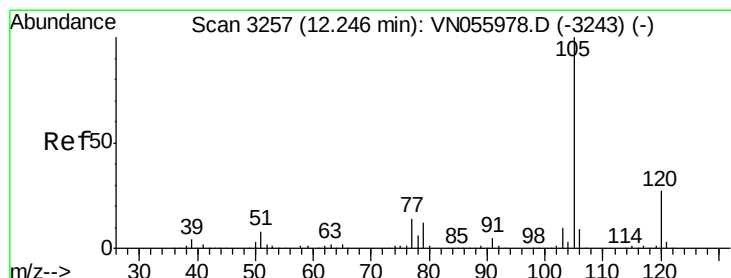
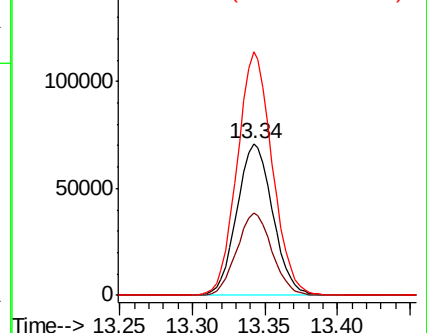
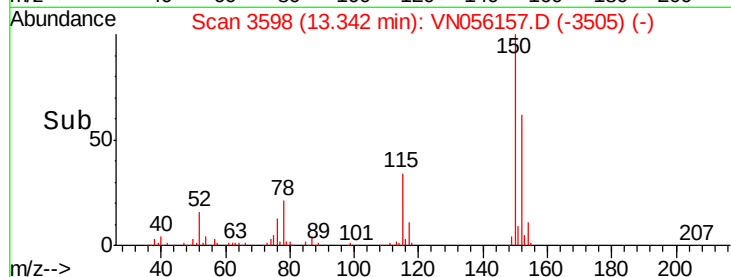
150 157.3 0.0 343.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3259

Delta R.T. 0.01 min

Lab File: VN056157.D

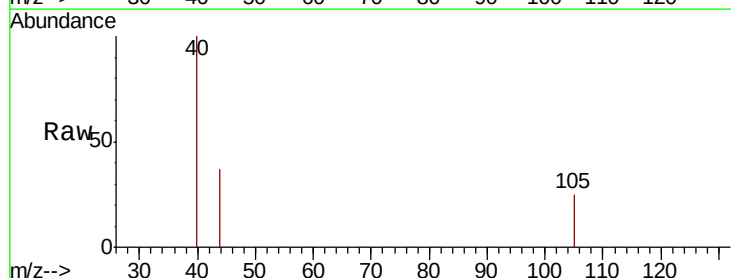
Acq: 10 Jun 2019 9:56

Tgt Ion:105 Resp: 448

Ion Ratio Lower Upper

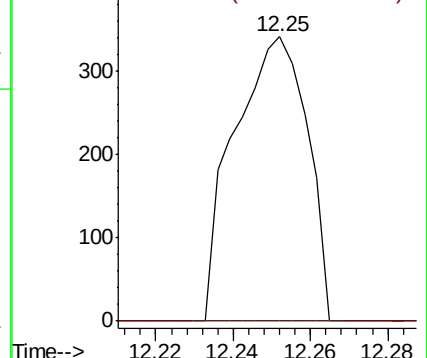
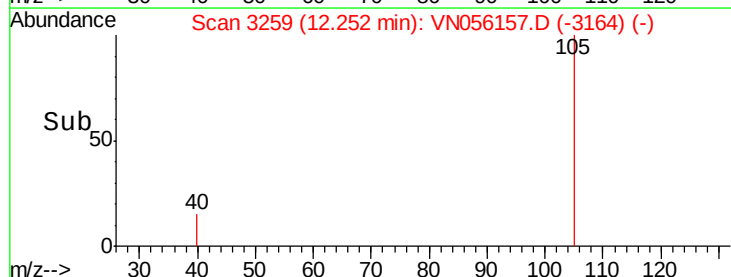
105 100

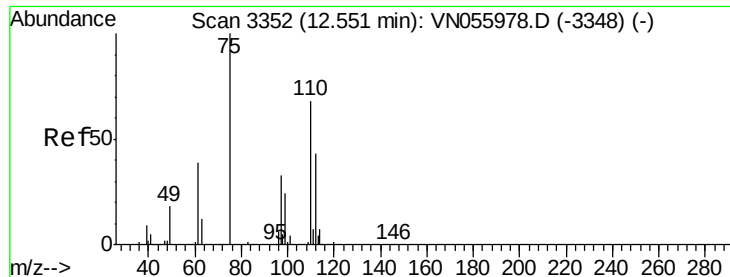
120 0.0 13.6 40.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 33.817 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056157.D

Acq: 10 Jun 2019 9:56

Instrument :

MSVOA_N

ClientSampleId :

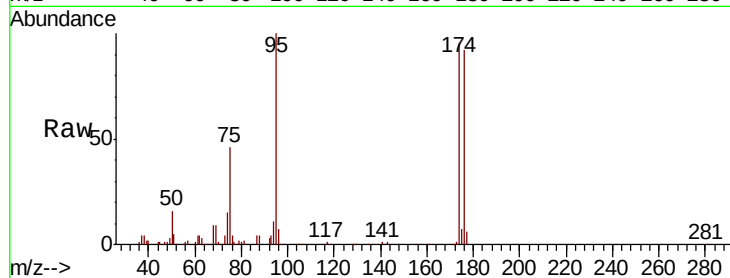
VN0610WBL01

Tot Ion: 75 Resp: 75778

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

40000

30000

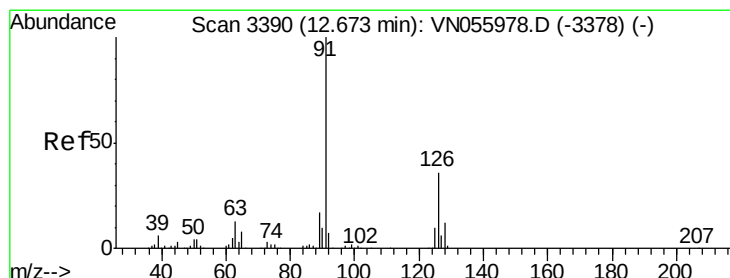
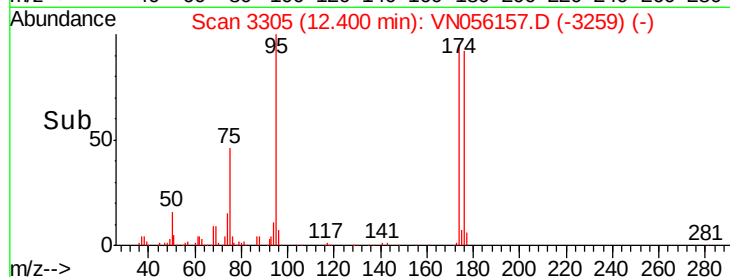
20000

10000

0

Time-->

12.35 12.40 12.45 12.50



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN056157.D

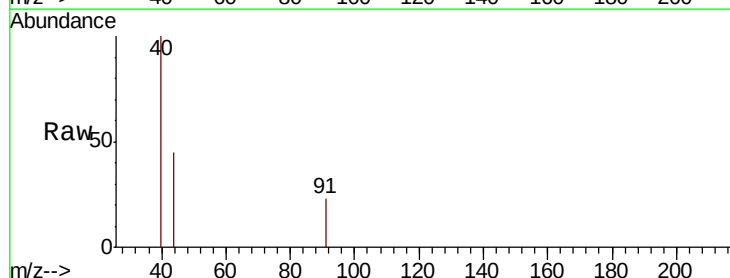
Acq: 10 Jun 2019 9:56

Tgt Ion: 91 Resp: 466

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

12.68

300

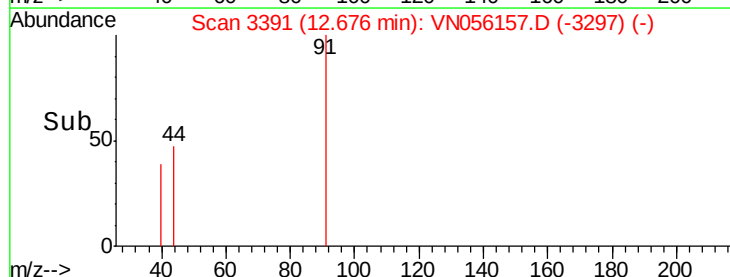
200

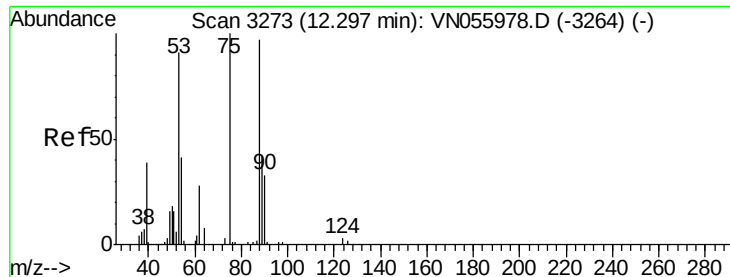
100

0

Time-->

12.64 12.66 12.68 12.70

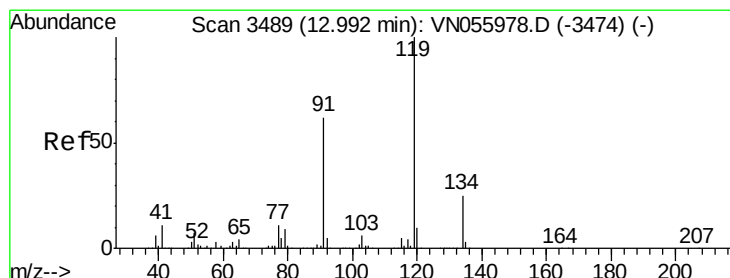
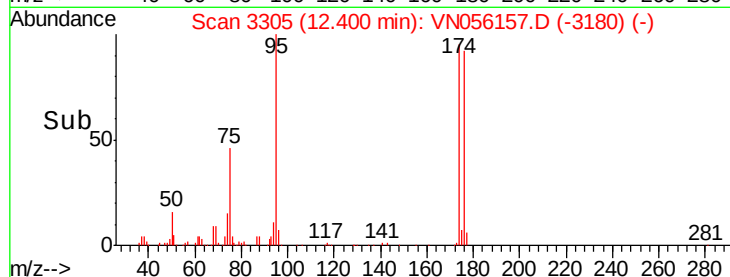
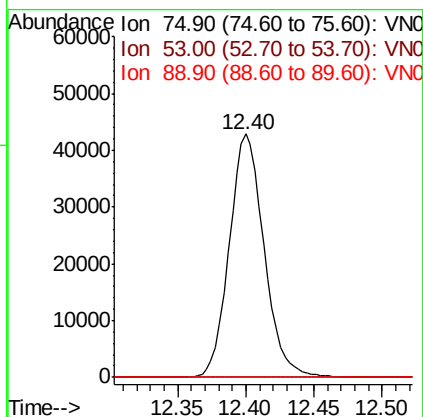
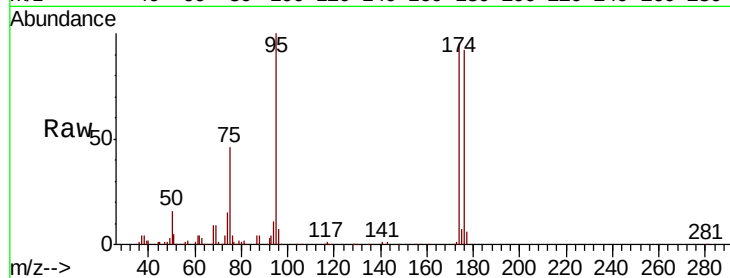




#81
 trans-1,4-Dichloro-2-butene
 Concen: 112.618 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN056157.D
 Acq: 10 Jun 2019 9:56

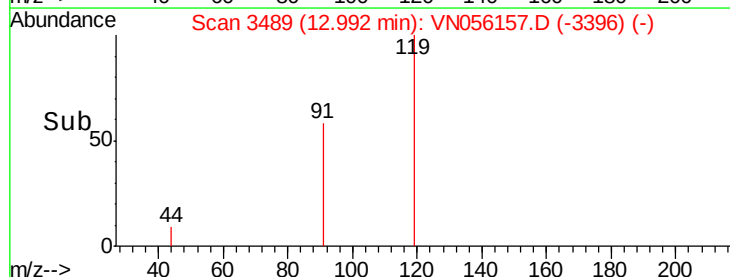
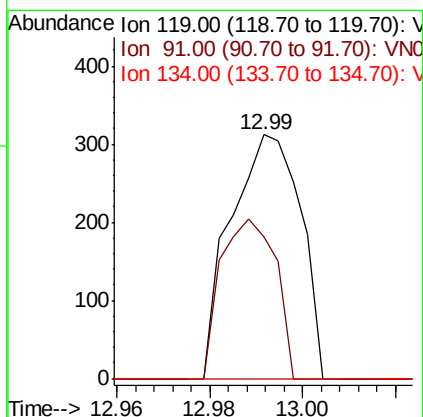
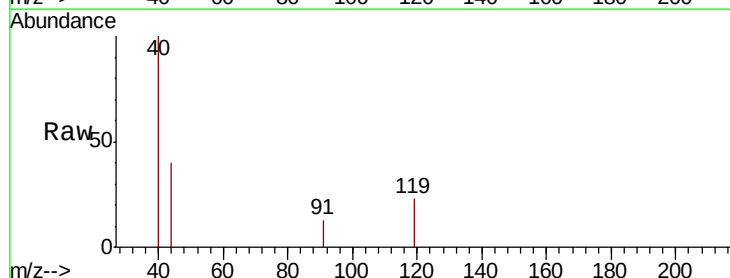
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0610WBL01

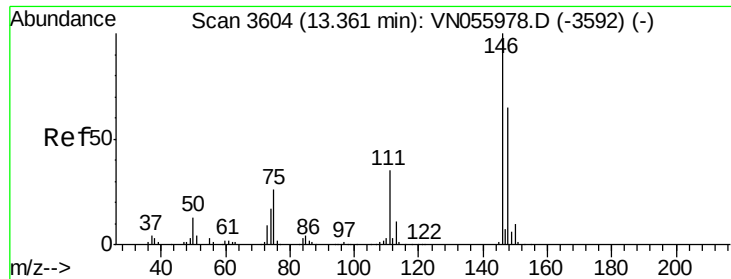
Tot Ion: 75 Resp: 75778
 Ion Ratio Lower Upper
 75 100
 53 0.0 68.1 102.1#
 89 0.0 36.9 55.3#



#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.99 min Scan# 3489
 Delta R.T. 0.00 min
 Lab File: VN056157.D
 Acq: 10 Jun 2019 9:56

Tgt Ion: 119 Resp: 328
 Ion Ratio Lower Upper
 119 100
 91 51.2 30.9 92.8
 134 0.0 13.3 39.8#

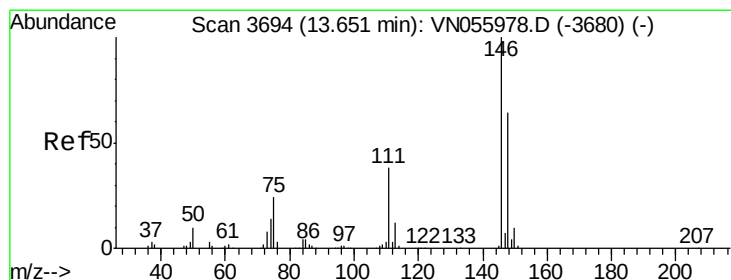
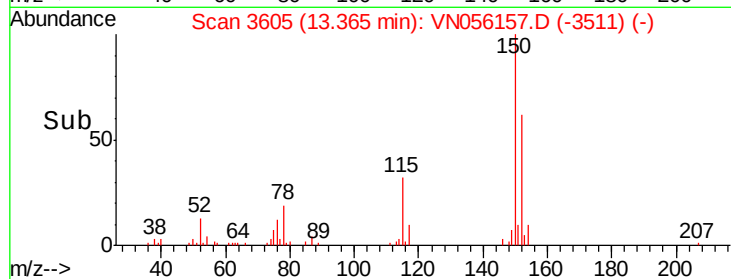
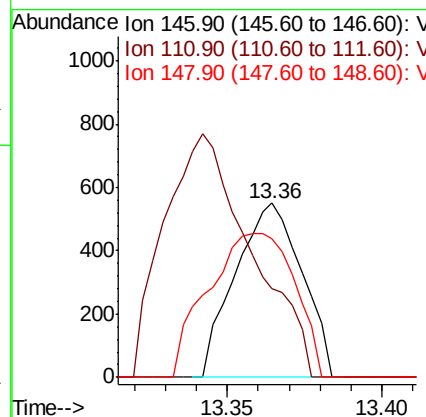
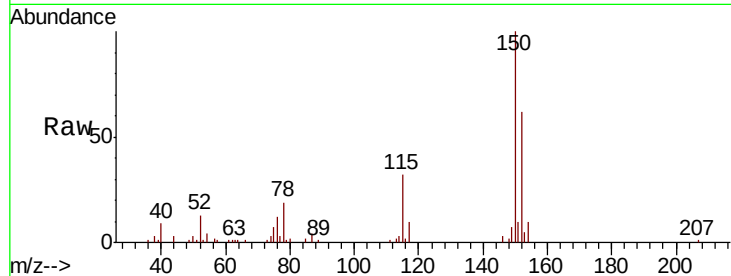




#88
 1,4-Dichlorobenzene
 Concen: 0.212 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN056157.D
 Acq: 10 Jun 2019 9:56

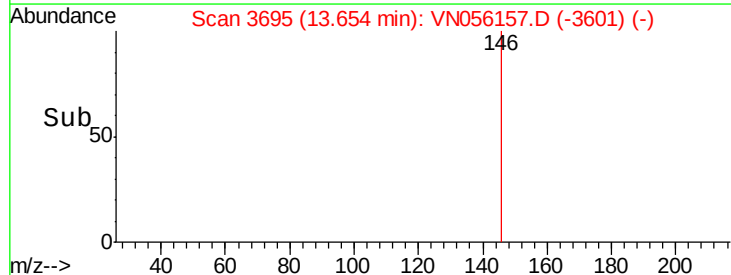
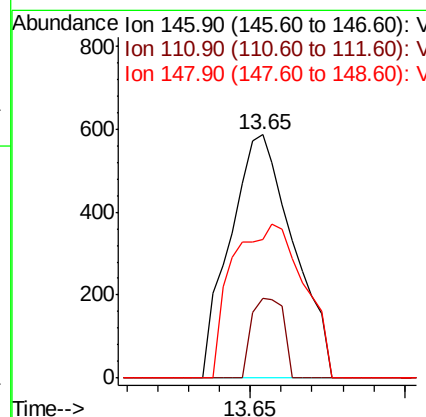
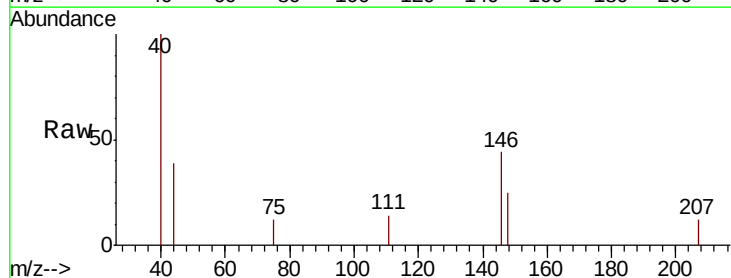
Instrument :
 MSVOA_N
 ClientSampled :
 VN0610WBL01

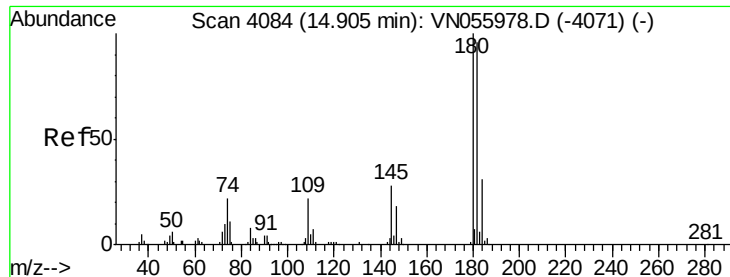
Tot Ion:146 Resp: 824
 Ion Ratio Lower Upper
 146 100
 111 0.0 18.1 54.4#
 148 107.5 32.1 96.5#



#91
 1,2-Dichlorobenzene
 Concen: 0.205 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN056157.D
 Acq: 10 Jun 2019 9:56

Tgt Ion:146 Resp: 836
 Ion Ratio Lower Upper
 146 100
 111 16.4 19.1 57.5#
 148 71.8 31.9 95.9

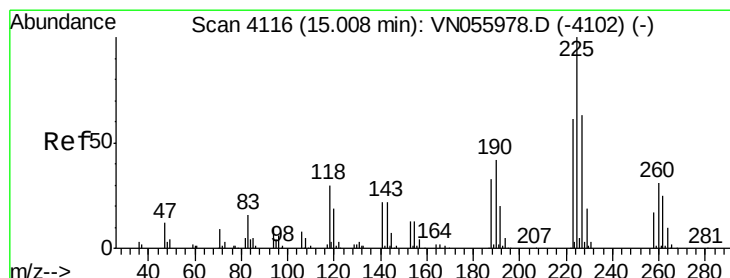
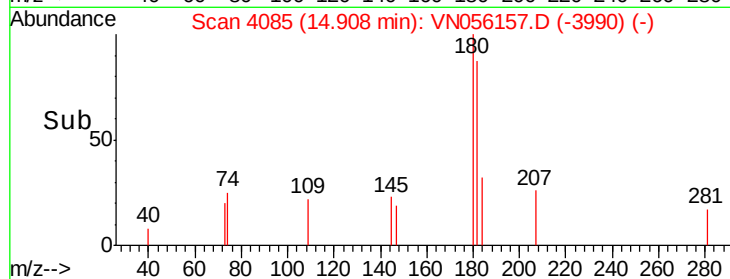
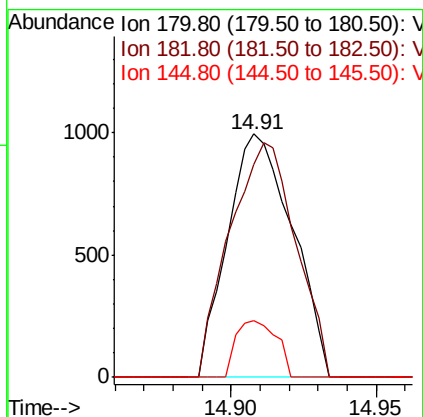
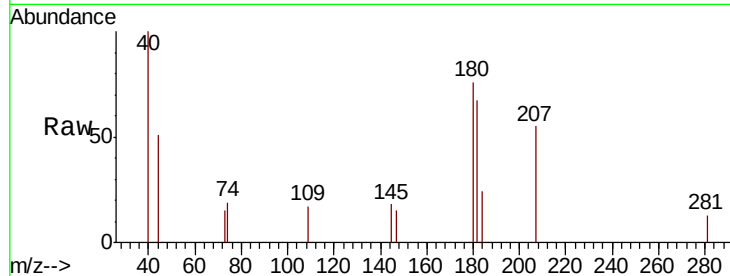




#93
 1,2,4-Trichlorobenzene
 Concen: 4.901 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN056157.D
 Acq: 10 Jun 2019 9:56

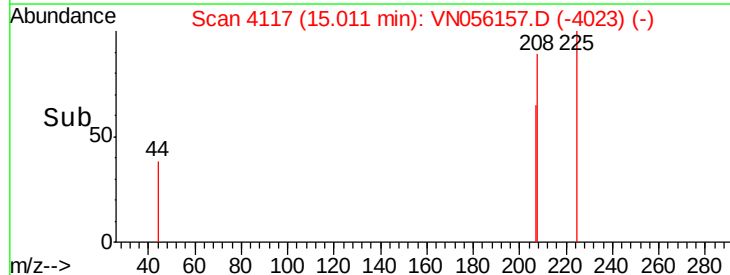
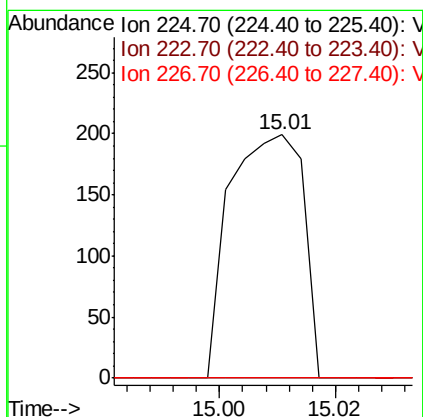
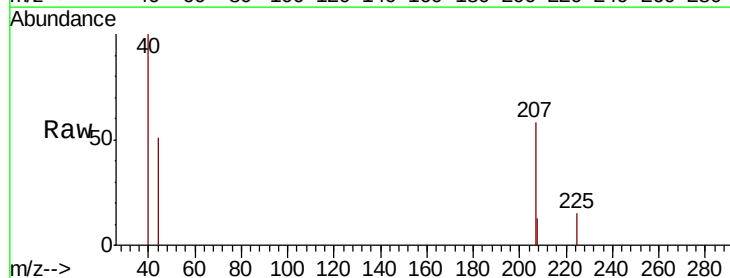
Instrument :
 MSVOA_N
 ClientSampled :
 VN0610WBL01

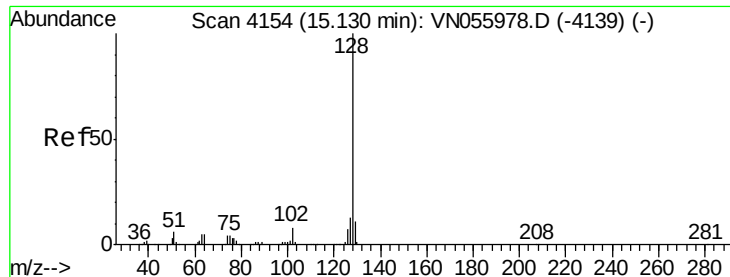
Tot Ion:180 Resp: 1549
 Ion Ratio Lower Upper
 180 100
 182 98.2 48.3 144.9
 145 14.6 14.0 41.9



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN056157.D
 Acq: 10 Jun 2019 9:56

Tgt Ion:225 Resp: 174
 Ion Ratio Lower Upper
 225 100
 223 0.0 30.9 92.7#
 227 0.0 31.6 94.7#





#95

Naphthalene

Concen: 4.456 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN056157.D

Acq: 10 Jun 2019 9:56

Instrument :

MSVOA_N

ClientSampleId :

VN0610WBL01

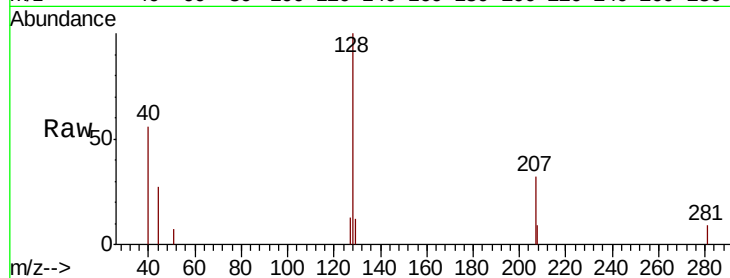
Tot Ion:128 Resp: 3814

Ion Ratio Lower Upper

128 100

127 7.1 10.3 15.5#

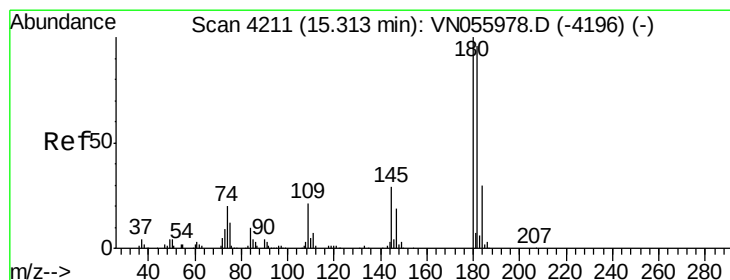
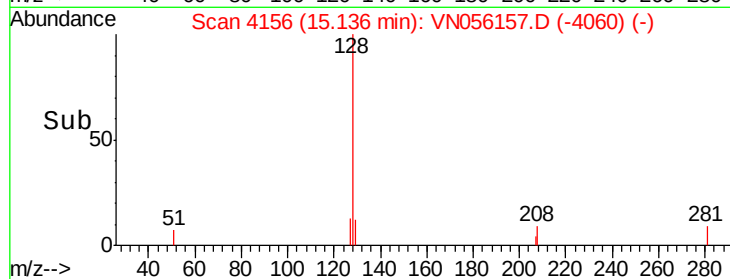
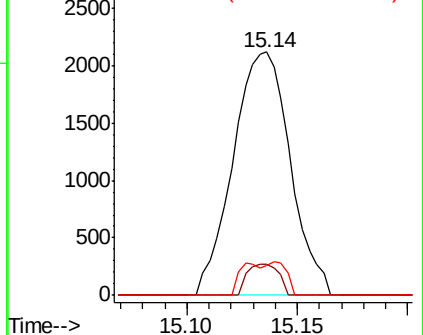
129 5.1 8.7 13.1#



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: 3.936 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN056157.D

Acq: 10 Jun 2019 9:56

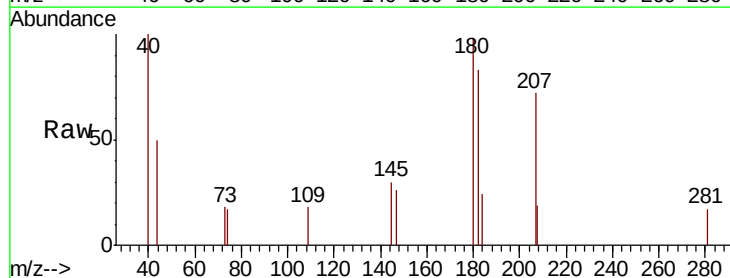
Tgt Ion:180 Resp: 2205

Ion Ratio Lower Upper

180 100

182 94.3 47.9 143.7

145 22.5 14.9 44.7



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

