

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091319\
 Data File : VN057962.D
 Acq On : 12 Sep 2019 11:58
 Operator : JC/SP
 Sample : K4644-19
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T11-D4-(0)

Quant Time: Sep 13 04:43:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

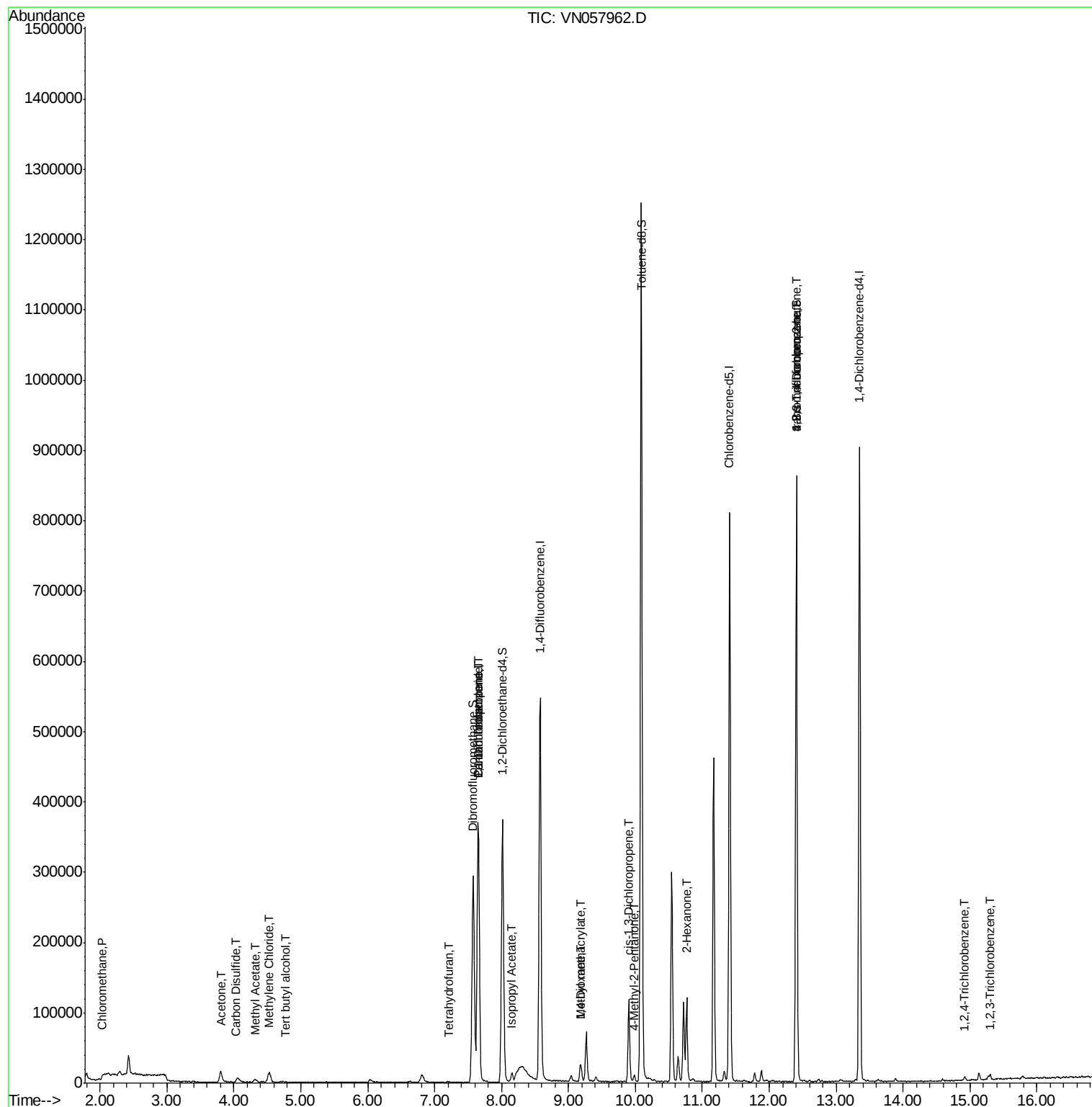
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	281989	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	473790	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	436496	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	224401	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	322070	56.39	ug/l	0.00
Spiked Amount 50.000			Recovery	=	112.78%	
35) Dibromofluoromethane	7.57	113	219723	50.25	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.50%	
50) Toluene-d8	10.09	98	857151	50.49	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.98%	
62) 4-Bromofluorobenzene	12.41	95	286269	44.24	ug/l	0.00
Spiked Amount 50.000			Recovery	=	88.48%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.03	50	1224	0.308	ug/l	89
5) Bromomethane	2.55	94	424	Below Cal	#	22
11) Tert butyl alcohol	4.77	59	194	0.281	ug/l #	72
16) Acetone	3.80	43	28392	15.164	ug/l	96
17) Carbon Disulfide	4.02	76	544	0.275	ug/l #	75
18) Methyl Acetate	4.31	43	7041	1.410	ug/l #	84
20) Methylene Chloride	4.53	84	10583	1.782	ug/l	93
29) Tetrahydrofuran	7.22	42	762	0.456	ug/l #	44
31) Cyclohexane	7.65	56	7496	Below Cal	#	10
36) 1,1-Dichloropropene	7.65	75	24345	4.431	ug/l #	51
38) Carbon Tetrachloride	7.65	117	28798	5.740	ug/l #	16
43) Isopropyl Acetate	8.16	43	14533	1.522	ug/l #	91
48) Methyl methacrylate	9.18	41	4194	0.866	ug/l #	33
49) 1,4-Dioxane	9.19	88	31	0.379	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	5265	0.932	ug/l	97
54) cis-1,3-Dichloropropene	9.90	75	19053	2.821	ug/l #	70
59) 2-Hexanone	10.77	43	19885	4.696	ug/l #	57
76) 1,2,3-Trichloropropane	12.41	75	157930	31.111	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	157930	109.480	ug/l #	6
93) 1,2,4-Trichlorobenzene	14.92	180	2105	0.405	ug/l	93
95) Naphthalene	15.13	128	8793	Below Cal		97
96) 1,2,3-Trichlorobenzene	15.30	180	2575	1.554	ug/l	85

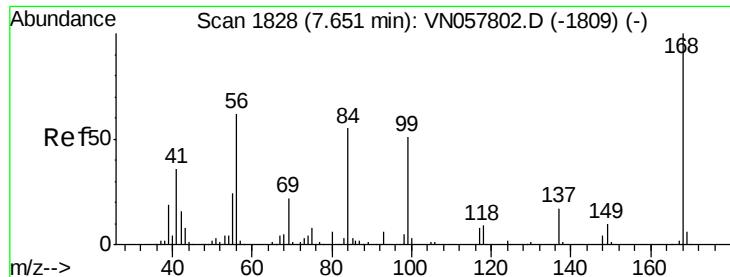
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Sep 10 03:02:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN057962.D

Acq: 12 Sep 2019 11:58

Instrument :

MSVOA_N

ClientSampleId :

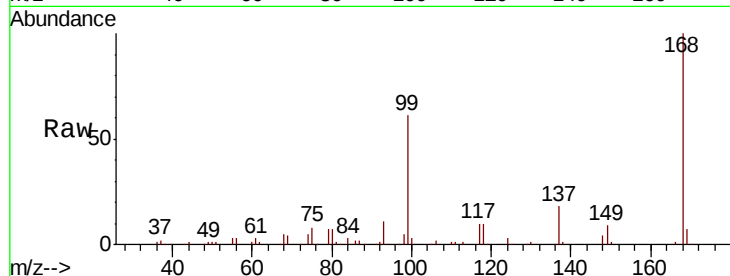
T11-D4-(0)

Tgt Ion:168 Resp: 281989

Ion Ratio Lower Upper

168 100

99 60.8 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

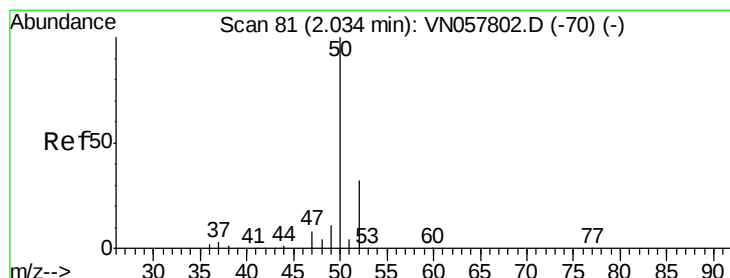
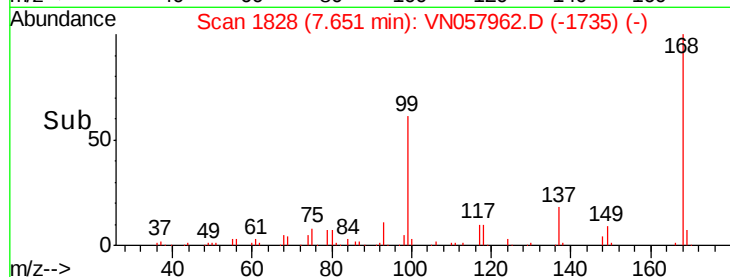
7.65

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.308 ug/l

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN057962.D

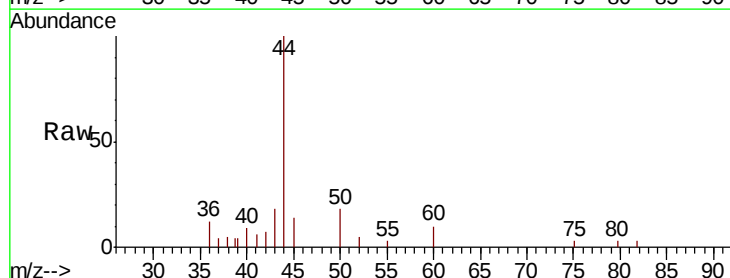
Acq: 12 Sep 2019 11:58

Tgt Ion: 50 Resp: 1224

Ion Ratio Lower Upper

50 100

52 25.9 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.03

1000

800

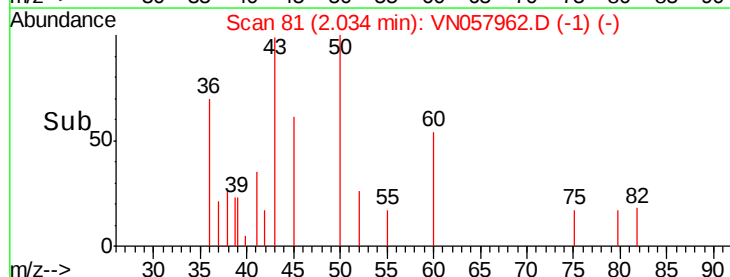
600

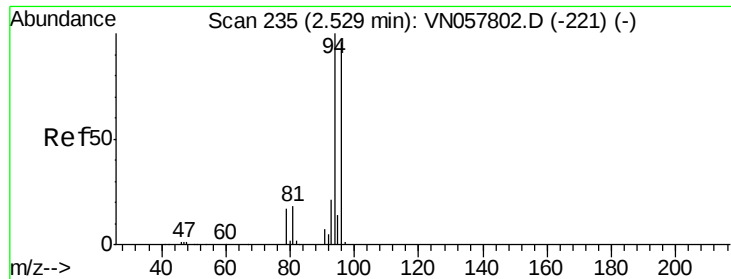
400

200

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 240

Delta R.T. 0.02 min

Lab File: VN057962.D

Acq: 12 Sep 2019 11:58

Instrument :

MSVOA_N

ClientSampleId :

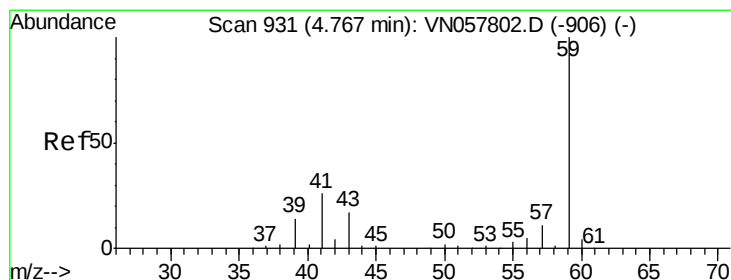
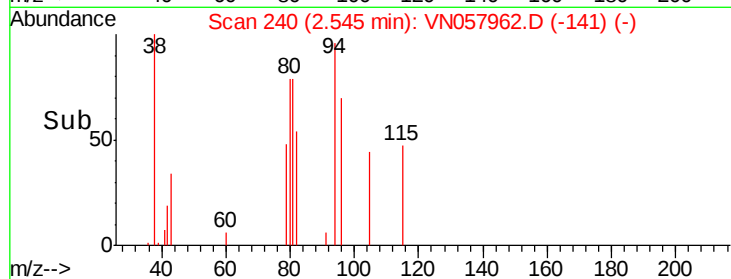
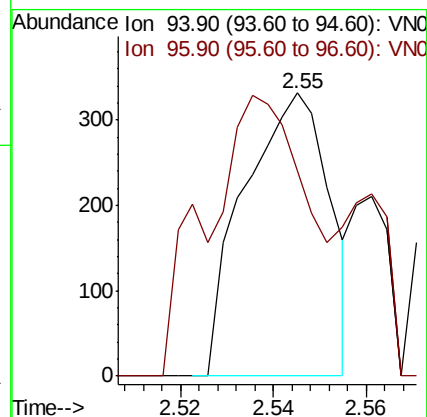
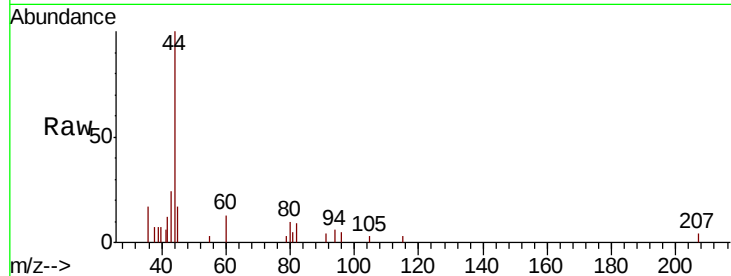
T11-D4-(0)

Tgt Ion: 94 Resp: 424

Ion Ratio Lower Upper

94 100

96 19.9 77.0 115.4#



#11

Tert butyl alcohol

Concen: 0.281 ug/l

RT: 4.77 min Scan# 931

Delta R.T. 0.00 min

Lab File: VN057962.D

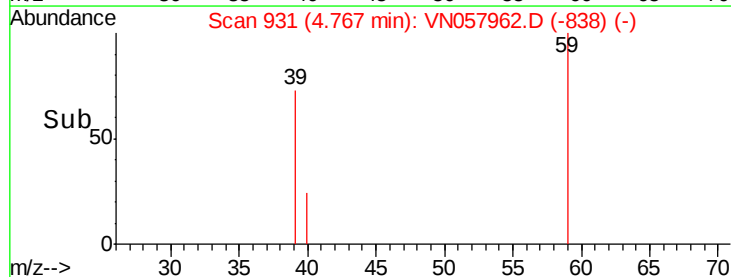
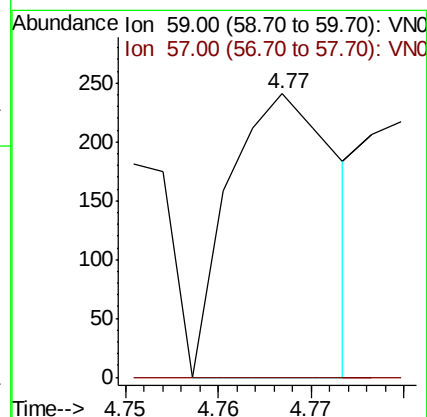
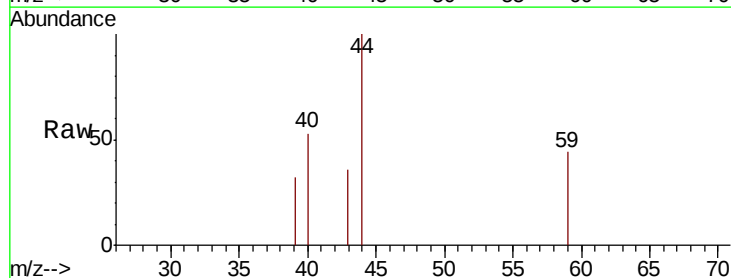
Acq: 12 Sep 2019 11:58

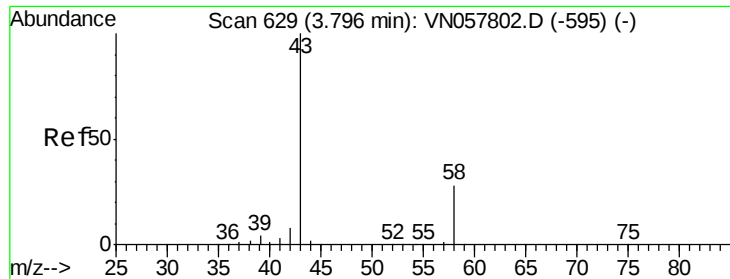
Tgt Ion: 59 Resp: 194

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#

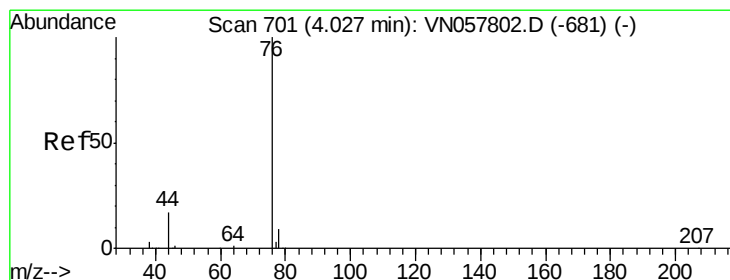
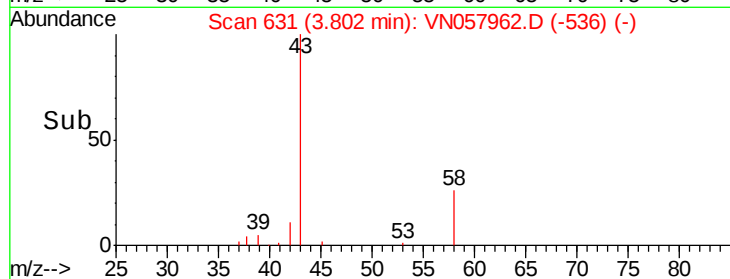
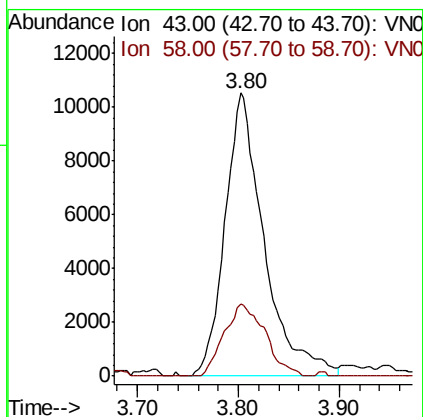
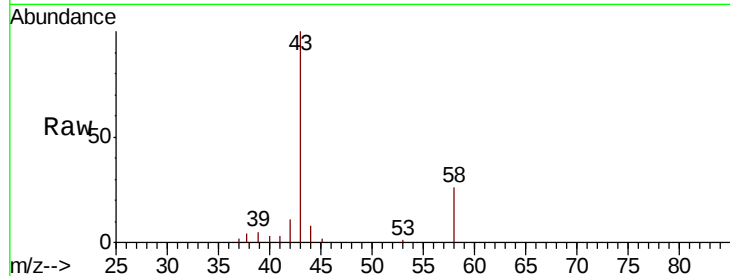




#16
Acetone
Concen: 15.164 ug/l
RT: 3.80 min Scan# 631
Delta R.T. 0.01 min
Lab File: VN057962.D
Acq: 12 Sep 2019 11:58

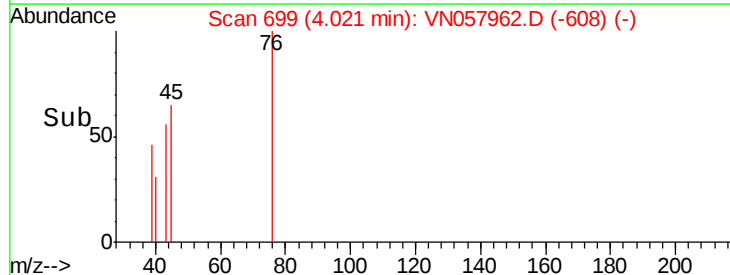
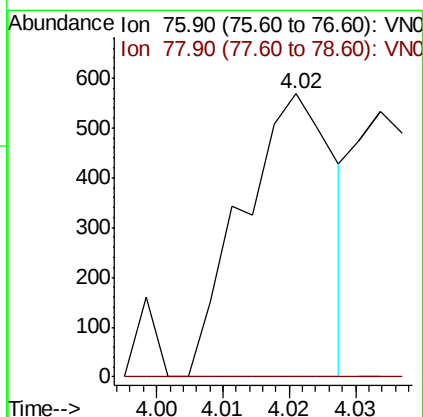
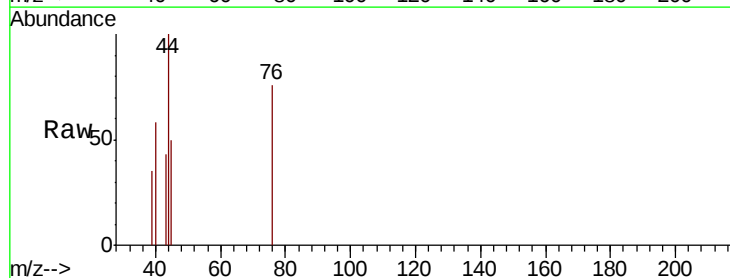
Instrument :
MSVOA_N
ClientSampleId :
T11-D4-(0)

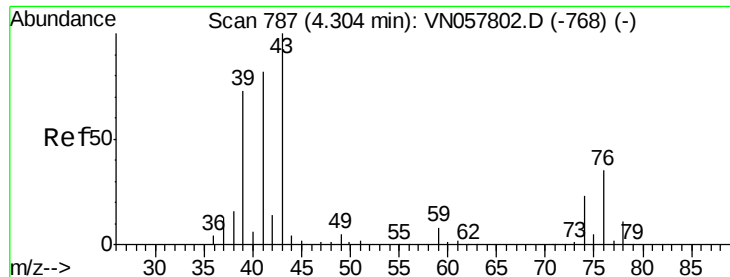
Tgt Ion: 43 Resp: 28392
Ion Ratio Lower Upper
43 100
58 25.7 22.2 33.2



#17
Carbon Disulfide
Concen: 0.275 ug/l
RT: 4.02 min Scan# 699
Delta R.T. -0.01 min
Lab File: VN057962.D
Acq: 12 Sep 2019 11:58

Tgt Ion: 76 Resp: 544
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#

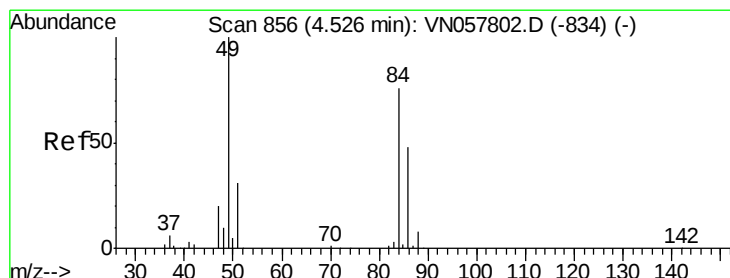
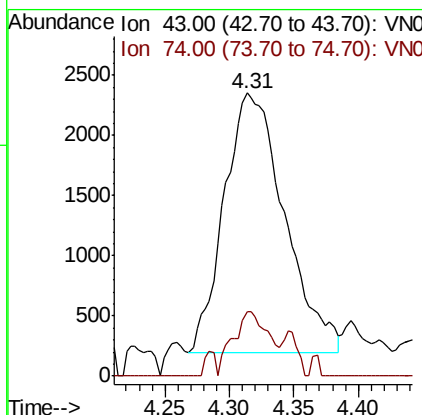
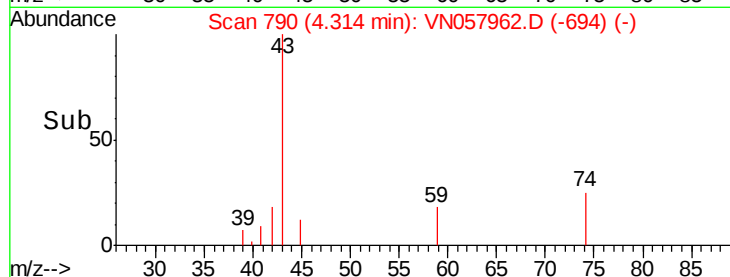
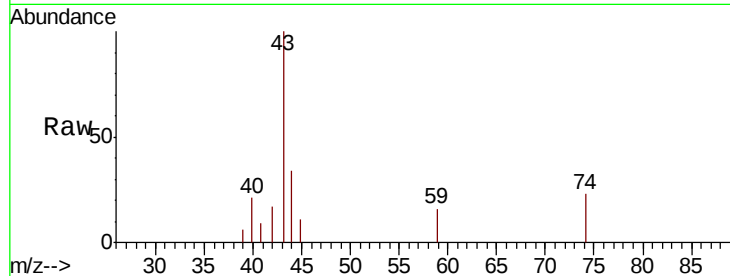




#18
Methyl Acetate
Concen: 1.410 ug/l
RT: 4.31 min Scan# 790
Delta R.T. 0.01 min
Lab File: VN057962.D
Acq: 12 Sep 2019 11:58

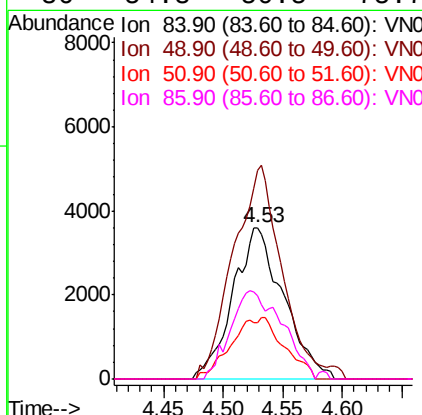
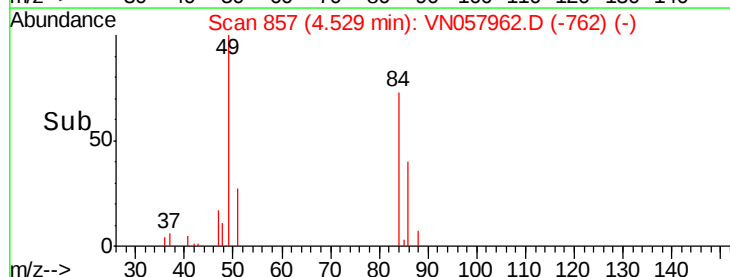
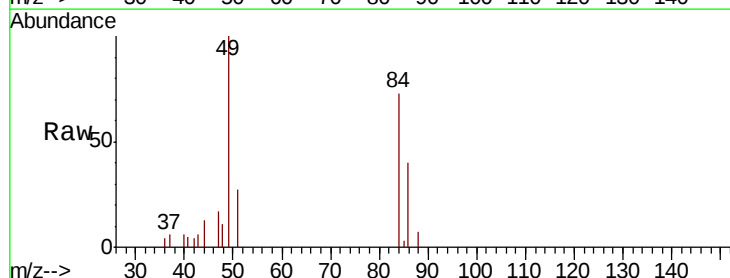
Instrument :
MSVOA_N
ClientSampled :
T11-D4-(0)

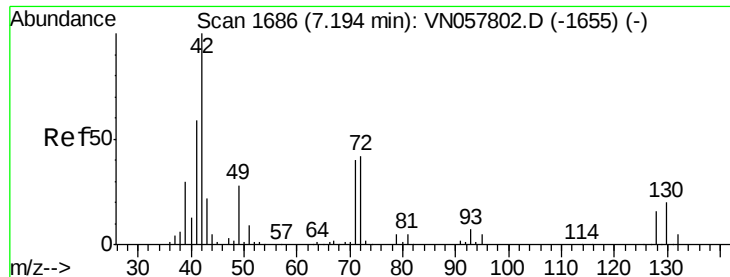
Tgt Ion: 43 Resp: 7041
Ion Ratio Lower Upper
43 100
74 14.8 17.9 26.9#



#20
Methylene Chloride
Concen: 1.782 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN057962.D
Acq: 12 Sep 2019 11:58

Tgt Ion: 84 Resp: 10583
Ion Ratio Lower Upper
84 100
49 137.6 104.8 157.2
51 36.8 33.0 49.4
86 54.8 50.5 75.7





#29

Tetrahydrofuran

Concen: 0.456 ug/l

RT: 7.22 min Scan# 1693

Delta R.T. 0.02 min

Lab File: VN057962.D

Acq: 12 Sep 2019 11:58

Instrument :

MSVOA_N

ClientSampleId :

T11-D4-(0)

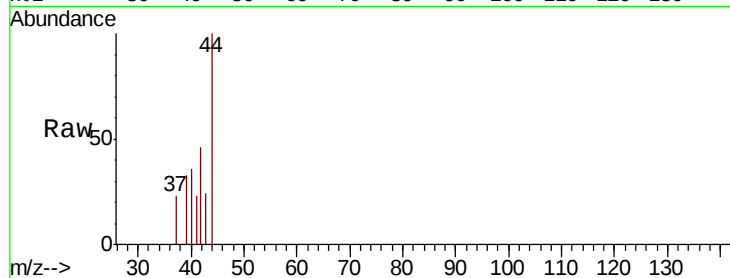
Tgt Ion: 42 Resp: 762

Ion Ratio Lower Upper

42 100

72 3.8 33.7 50.5#

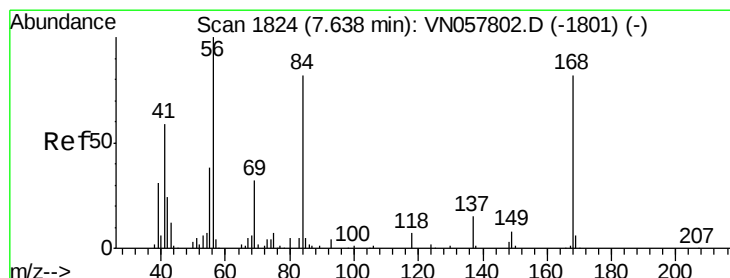
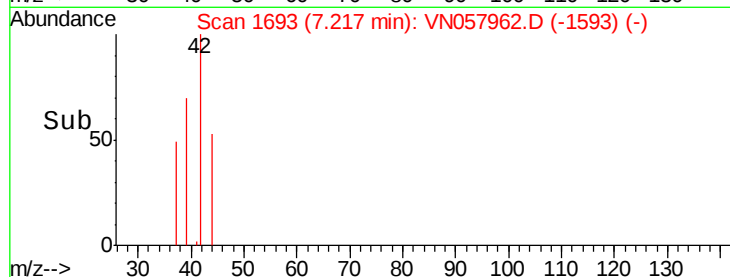
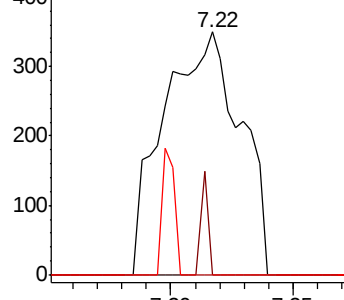
71 8.5 31.9 47.9#



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: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN057962.D

Acq: 12 Sep 2019 11:58

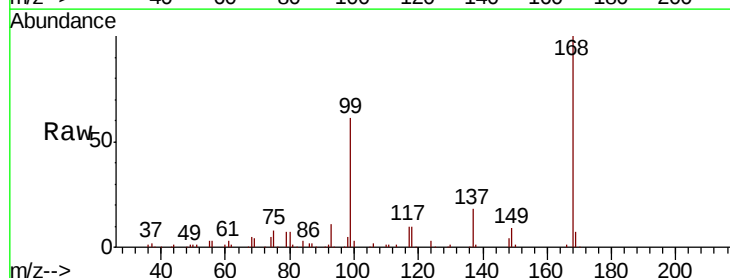
Tgt Ion: 56 Resp: 7496

Ion Ratio Lower Upper

56 100

69 153.9 25.9 38.9#

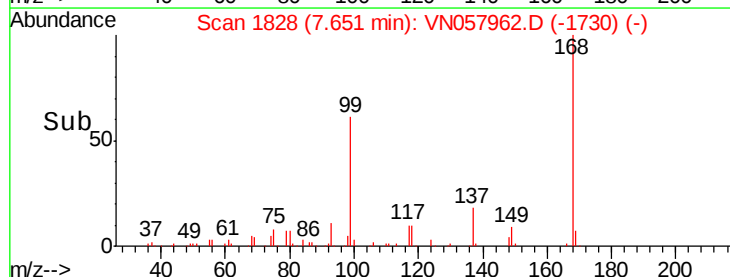
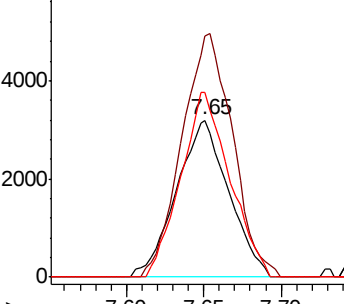
84 117.6 65.6 98.4#

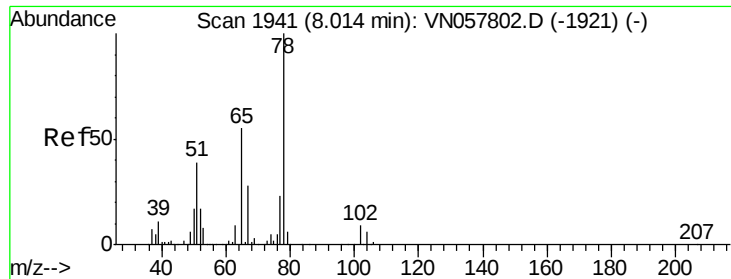


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

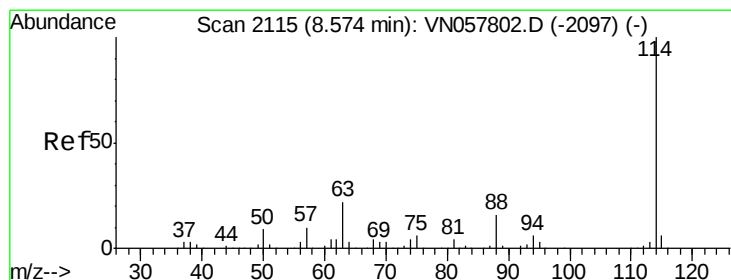
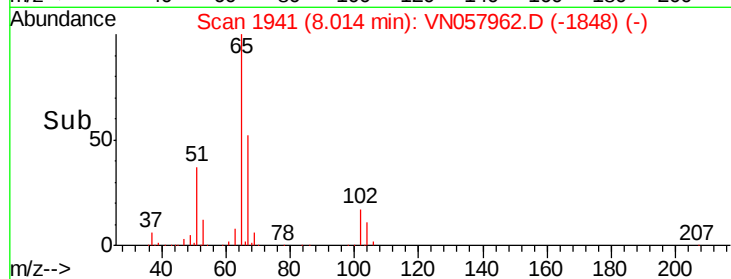
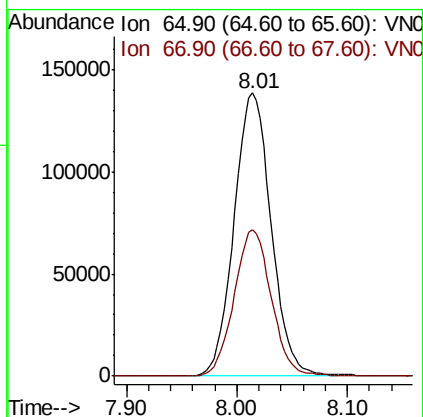
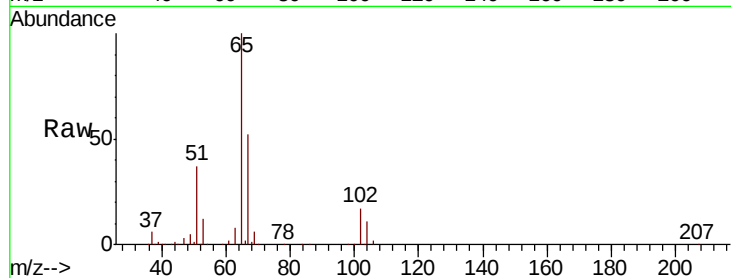




#33
 1,2-Dichloroethane-d4
 Concen: 56.390 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057962.D
 Acq: 12 Sep 2019 11:58

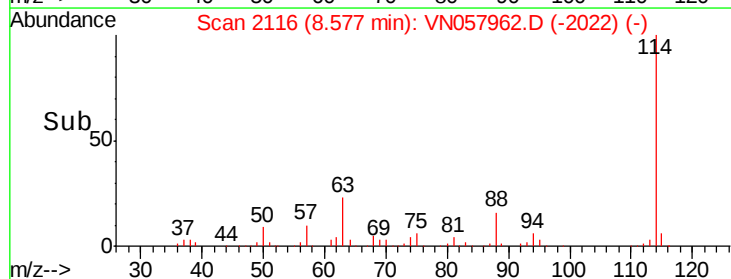
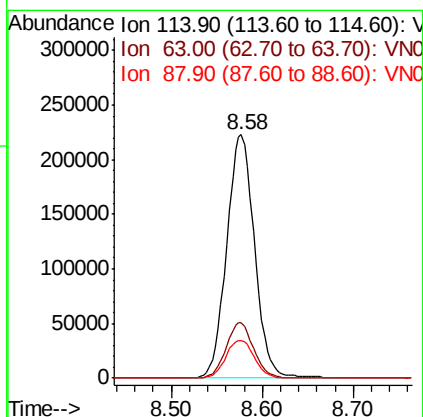
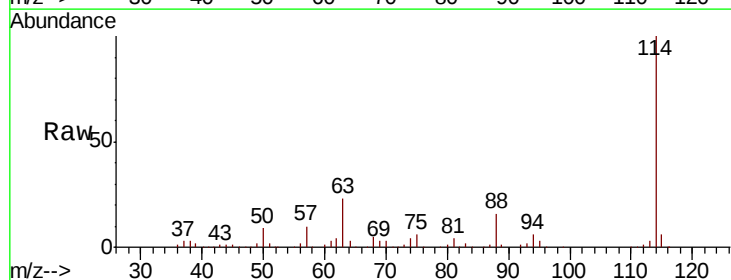
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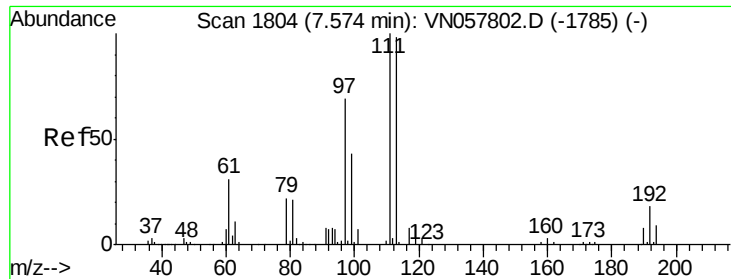
Tgt Ion: 65 Resp: 322070
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057962.D
 Acq: 12 Sep 2019 11:58

Tgt Ion: 114 Resp: 473790
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 44.0
 88 15.5 0.0 31.4

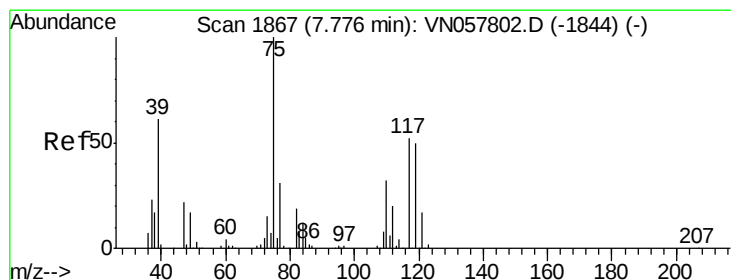
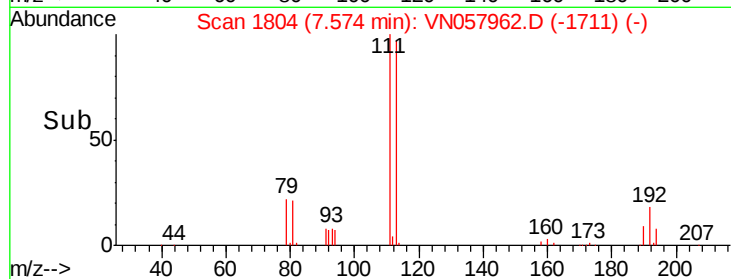
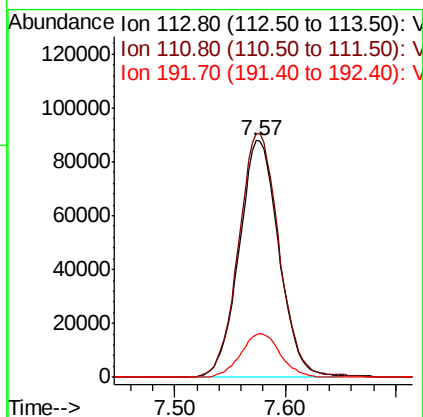
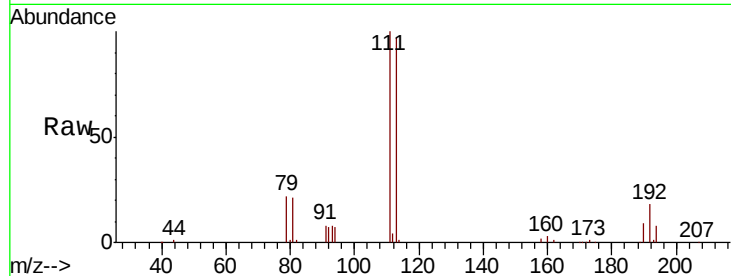




#35
 Dibromofluoromethane
 Concen: 50.247 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN057962.D
 Acq: 12 Sep 2019 11:58

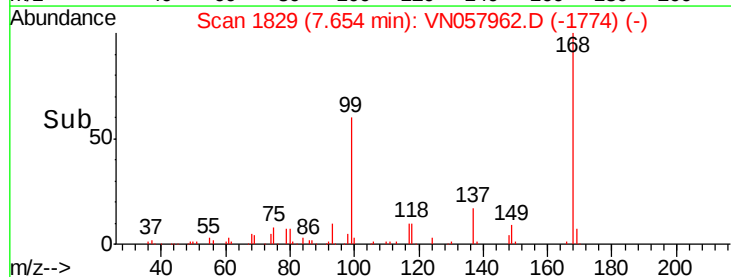
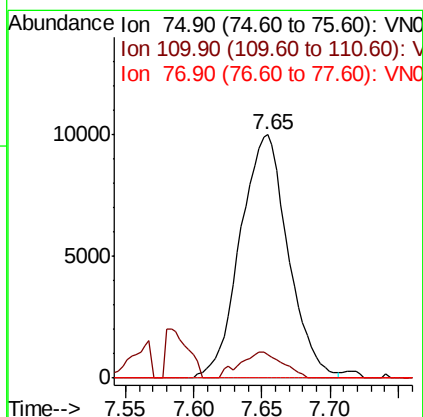
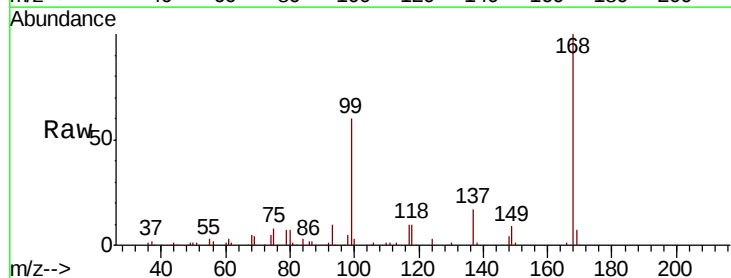
Instrument :
 MSVOA_N
 ClientSampleId :
 T11-D4-(0)

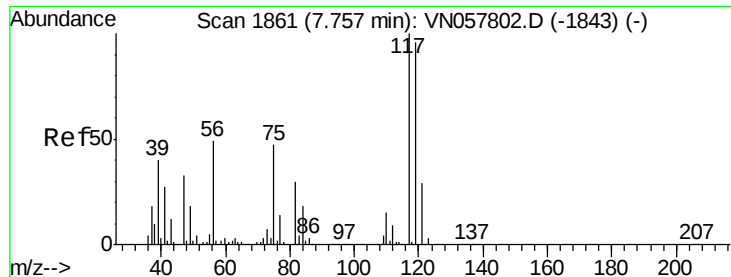
Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.9	81.3	121.9
192	18.4	14.6	22.0



#36
 1,1-Dichloropropene
 Concen: 4.431 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN057962.D
 Acq: 12 Sep 2019 11:58

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.5	16.3	48.9#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 5.740 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN057962.D

Acq: 12 Sep 2019 11:58

Instrument :

MSVOA_N

ClientSampleId :

T11-D4-(0)

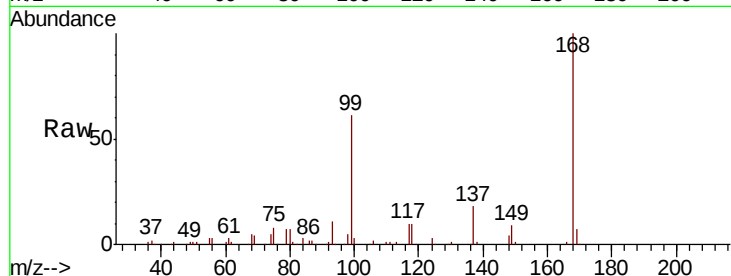
Tgt Ion:117 Resp: 28798

Ion Ratio Lower Upper

117 100

119 4.7 76.9 115.3#

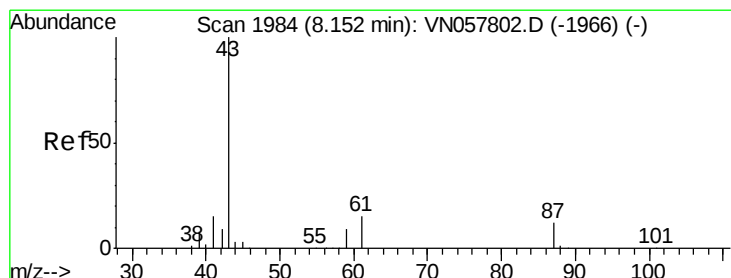
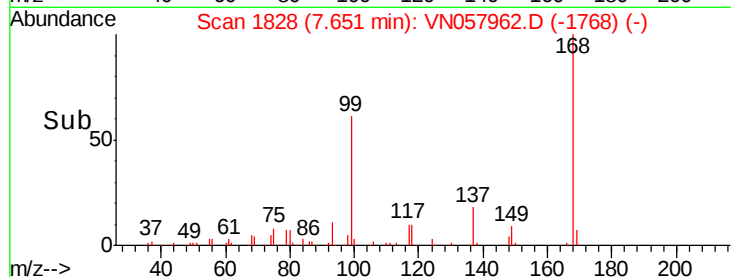
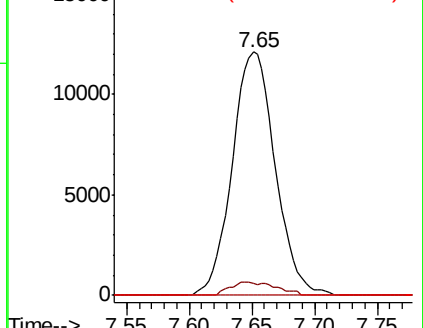
121 0.0 23.4 35.2#



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: 1.522 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN057962.D

Acq: 12 Sep 2019 11:58

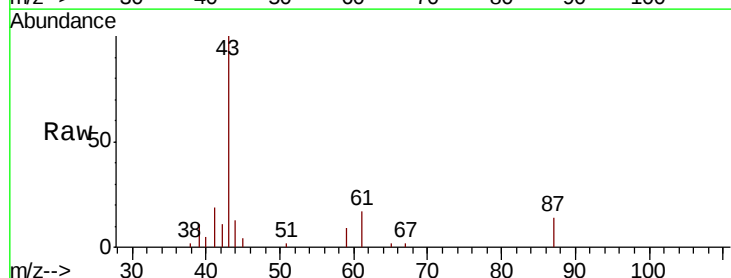
Tgt Ion: 43 Resp: 14533

Ion Ratio Lower Upper

43 100

61 19.7 20.1 30.1#

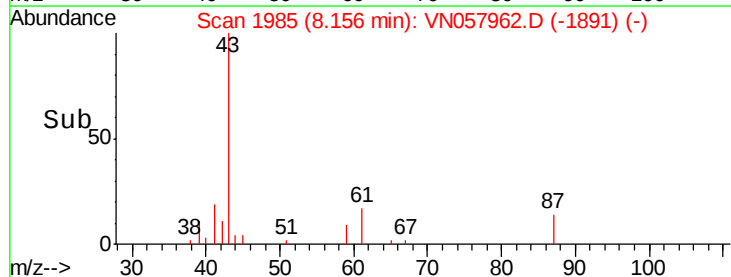
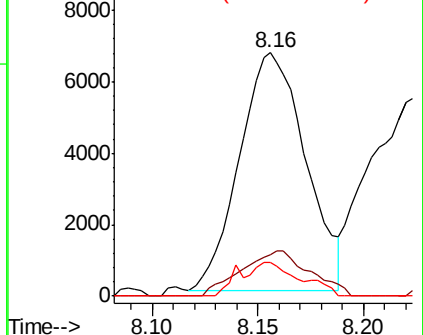
87 9.5 9.5 14.3#

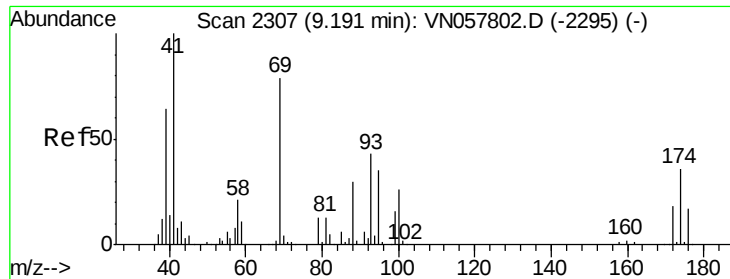


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

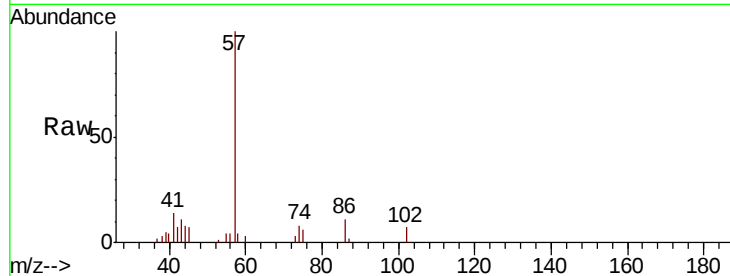




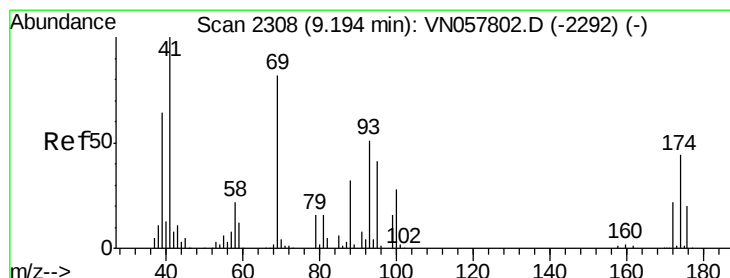
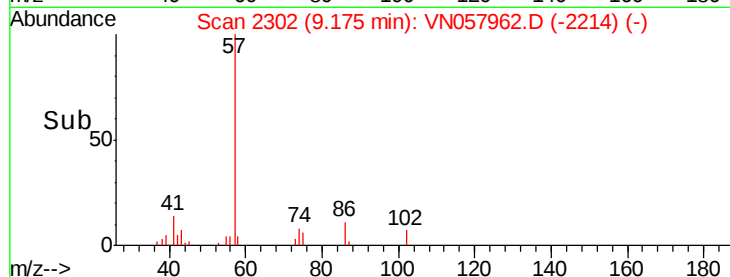
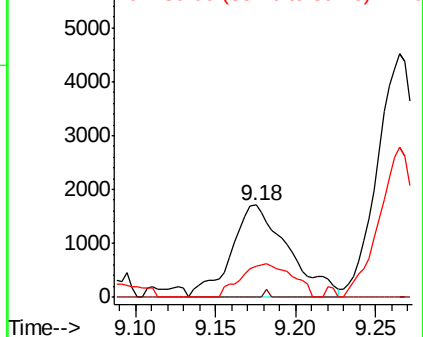
#48
Methyl methacrylate
Concen: 0.866 ug/l
RT: 9.18 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN057962.D
Acq: 12 Sep 2019 11:58

Instrument :
MSVOA_N
ClientSampleId :
T11-D4-(0)

Tgt Ion: 41 Resp: 4194
Ion Ratio Lower Upper
41 100
69 0.7 62.7 94.1#
39 33.0 52.7 79.1#

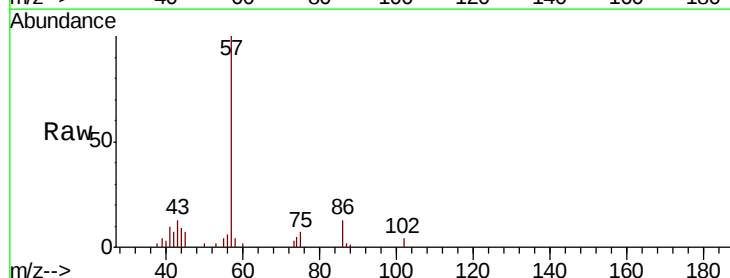


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

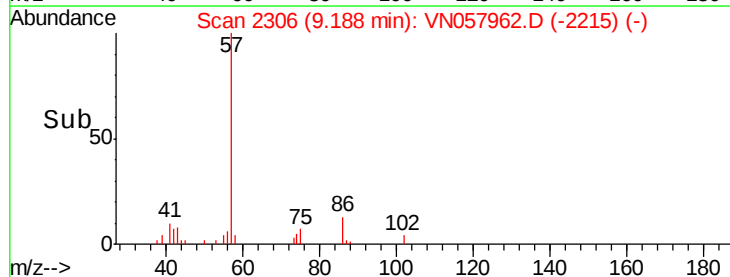
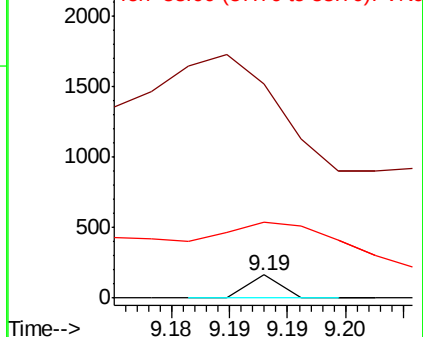


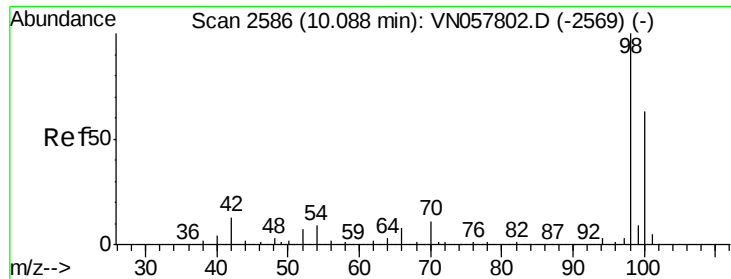
#49
1,4-Dioxane
Concen: 0.379 ug/l
RT: 9.19 min Scan# 2306
Delta R.T. -0.01 min
Lab File: VN057962.D
Acq: 12 Sep 2019 11:58

Tgt Ion: 88 Resp: 31
Ion Ratio Lower Upper
88 100
43 9203.2 28.5 42.7#
58 3341.9 55.8 83.6#



Abundance Ion 88.00 (87.70 to 88.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 58.00 (57.70 to 58.70): VNC





#50

Toluene-d8

Concen: 50.486 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057962.D

Acq: 12 Sep 2019 11:58

Instrument :

MSVOA_N

ClientSampleId :

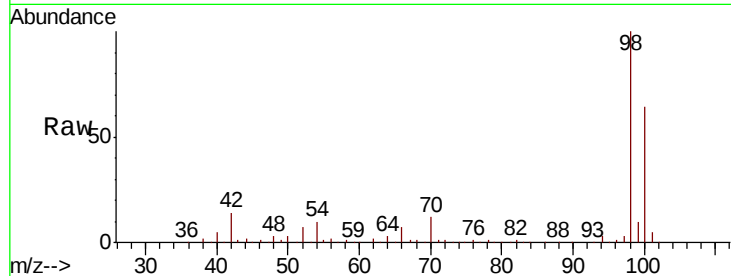
T11-D4-(0)

Tgt Ion: 98 Resp: 857151

Ion Ratio Lower Upper

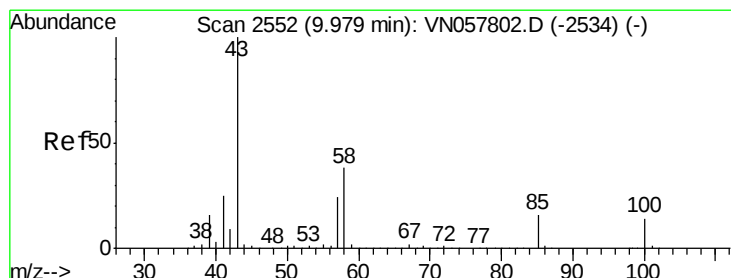
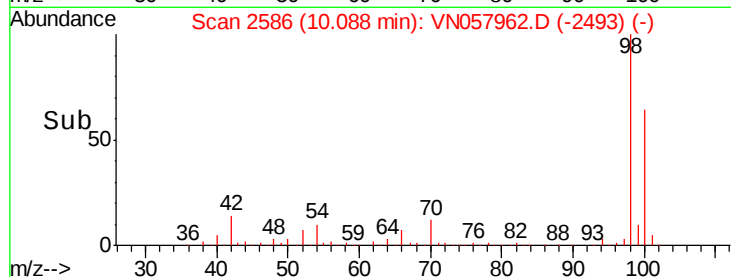
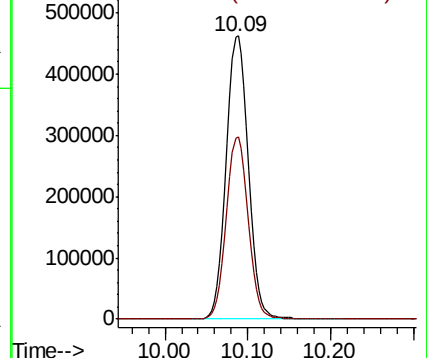
98 100

100 63.7 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 0.932 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN057962.D

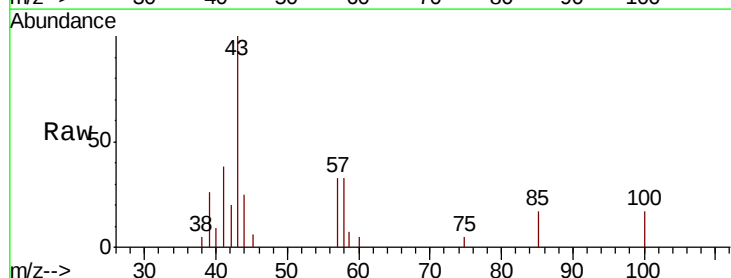
Acq: 12 Sep 2019 11:58

Tgt Ion: 43 Resp: 5265

Ion Ratio Lower Upper

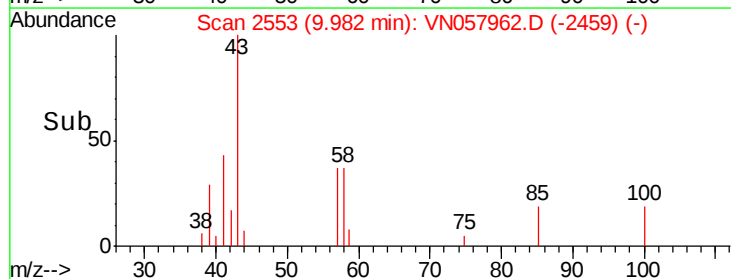
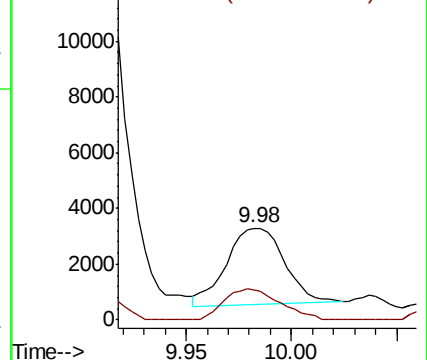
43 100

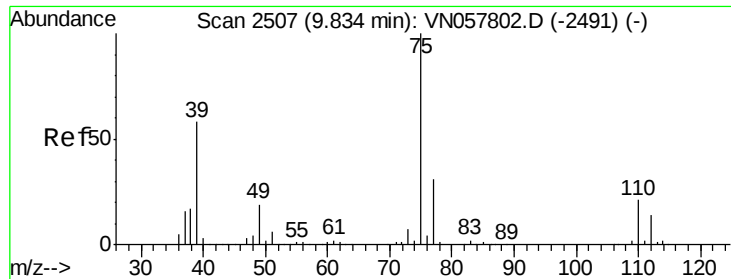
58 38.8 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

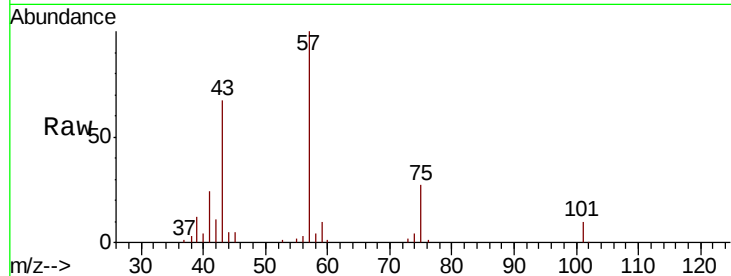




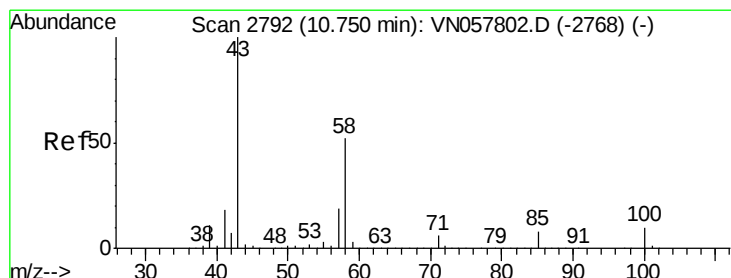
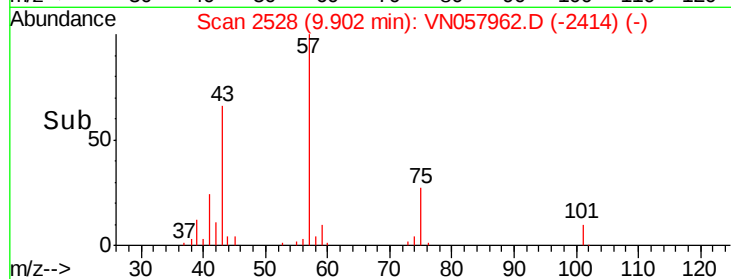
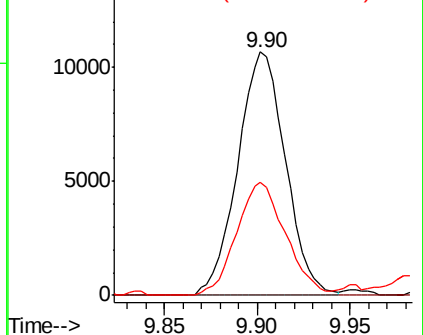
#54
 cis-1,3-Dichloropropene
 Concen: 2.821 ug/l
 RT: 9.90 min Scan# 2528
 Delta R.T. 0.07 min
 Lab File: VN057962.D
 Acq: 12 Sep 2019 11:58

Instrument :
 MSVOA_N
 ClientSampleId :
 T11-D4-(0)

Tgt Ion: 75 Resp: 19053
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 46.4 46.2 69.4

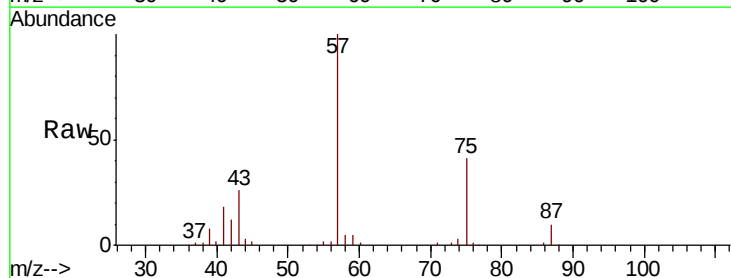


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0

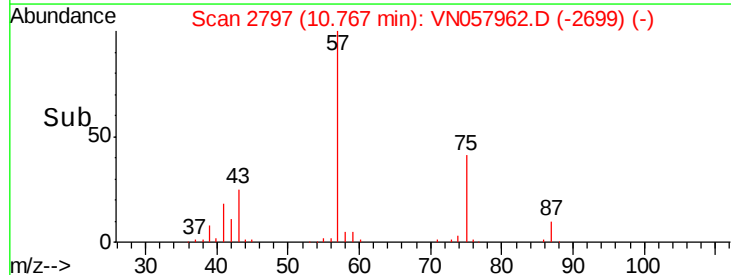
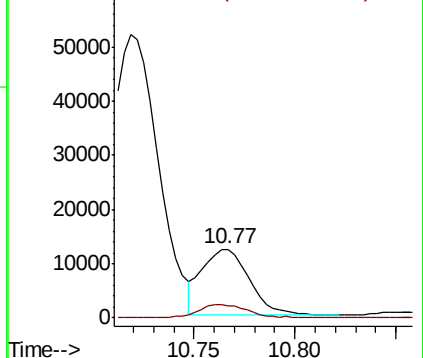


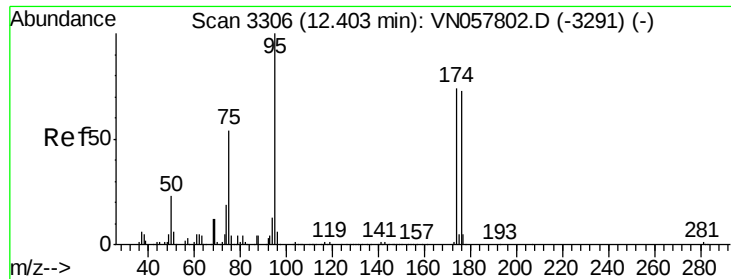
#59
 2-Hexanone
 Concen: 4.696 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.02 min
 Lab File: VN057962.D
 Acq: 12 Sep 2019 11:58

Tgt Ion: 43 Resp: 19885
 Ion Ratio Lower Upper
 43 100
 58 21.4 25.6 76.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

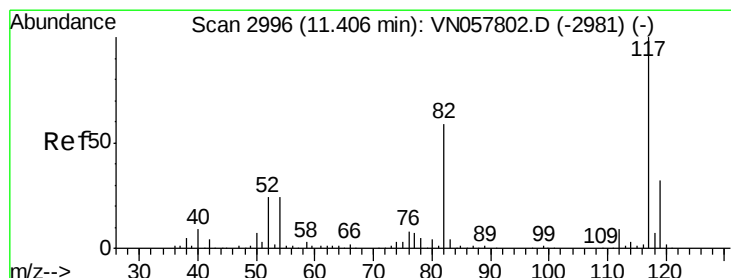
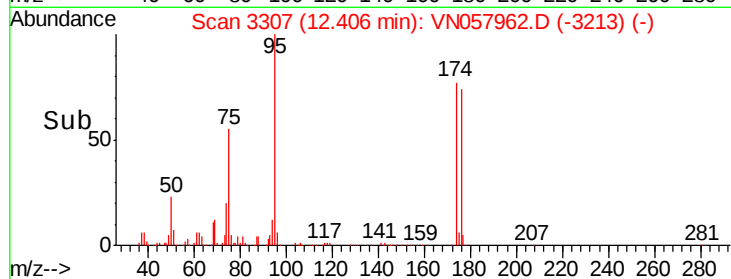
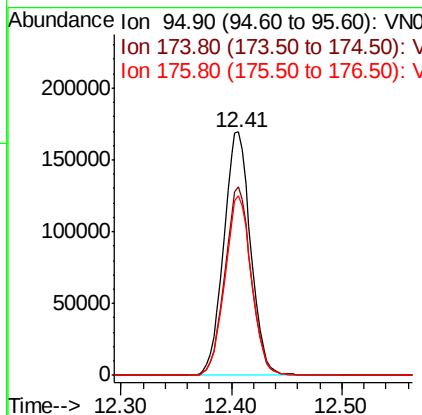
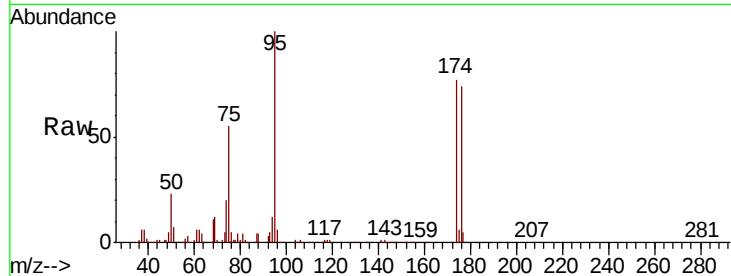




#62
4-Bromofluorobenzene
Concen: 44.245 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN057962.D
Acq: 12 Sep 2019 11:58

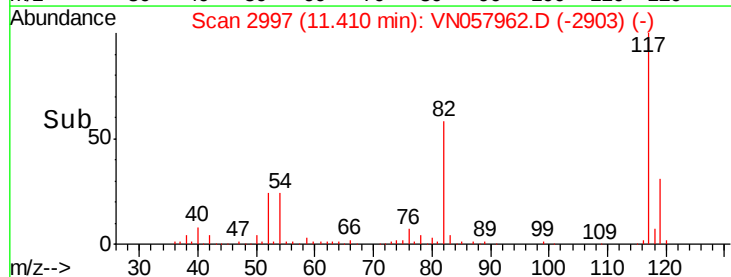
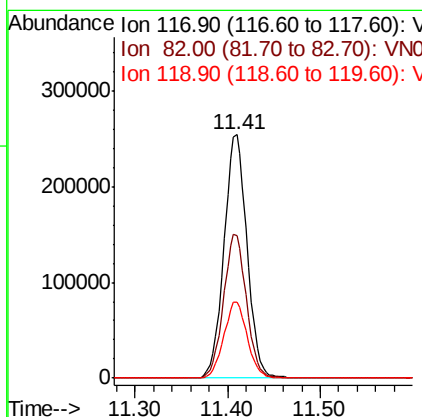
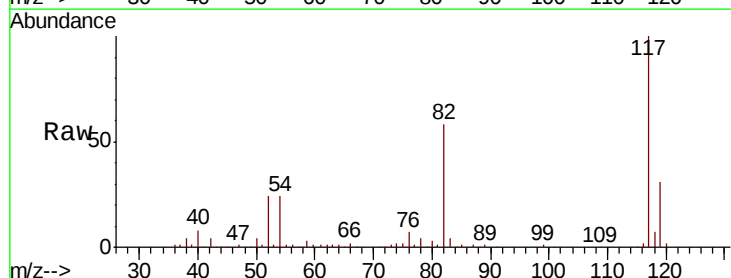
Instrument :
MSVOA_N
ClientSampleId :
T11-D4-(0)

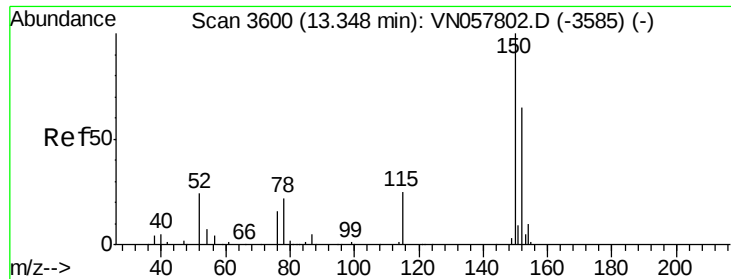
Tgt Ion: 95 Resp: 286269
Ion Ratio Lower Upper
95 100
174 75.5 0.0 150.2
176 73.0 0.0 146.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN057962.D
Acq: 12 Sep 2019 11:58

Tgt Ion: 117 Resp: 436496
Ion Ratio Lower Upper
117 100
82 58.3 47.2 70.8
119 31.4 25.3 37.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057962.D

Acq: 12 Sep 2019 11:58

Instrument :

MSVOA_N

ClientSampleId :

T11-D4-(0)

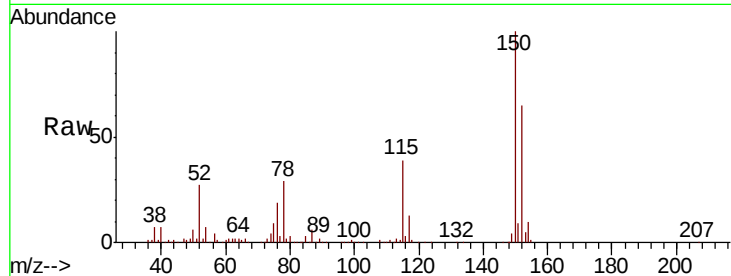
Tgt Ion:152 Resp: 224401

Ion Ratio Lower Upper

152 100

115 61.0 30.3 91.0

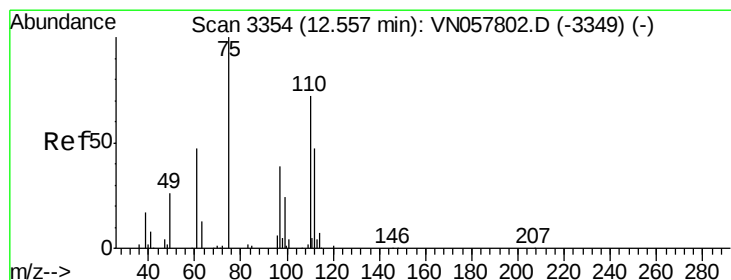
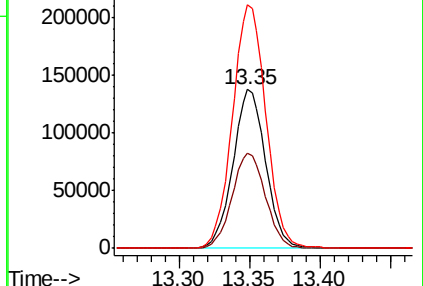
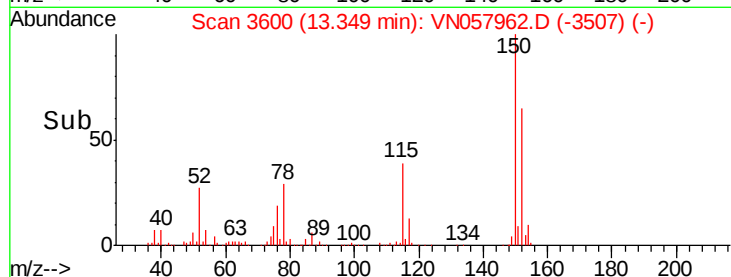
150 156.5 0.0 352.4



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: 31.111 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN057962.D

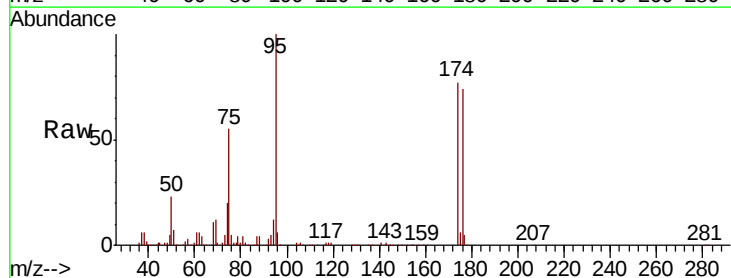
Acq: 12 Sep 2019 11:58

Tgt Ion: 75 Resp: 157930

Ion Ratio Lower Upper

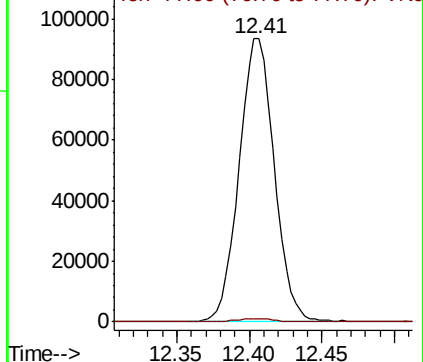
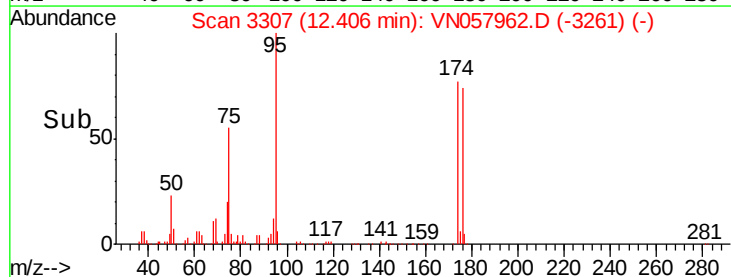
75 100

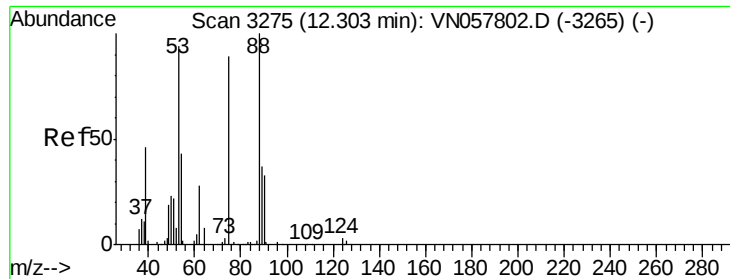
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

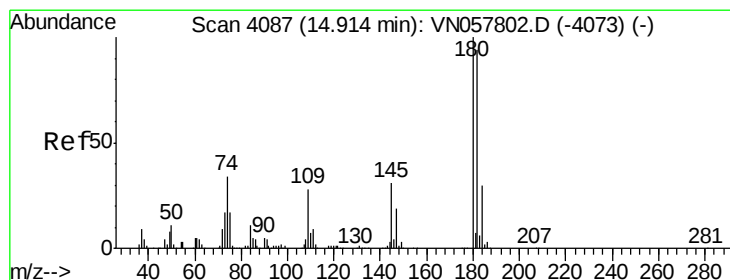
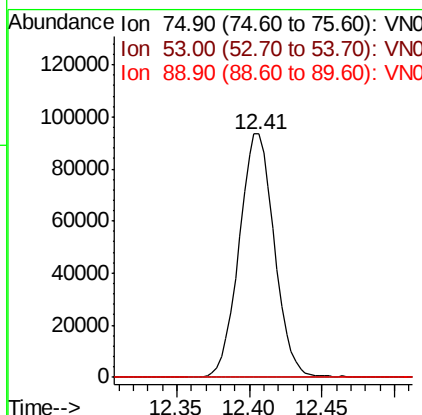
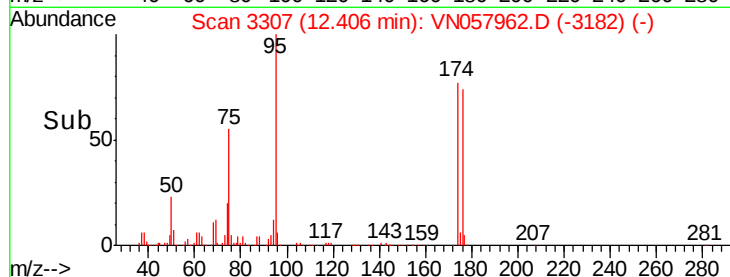
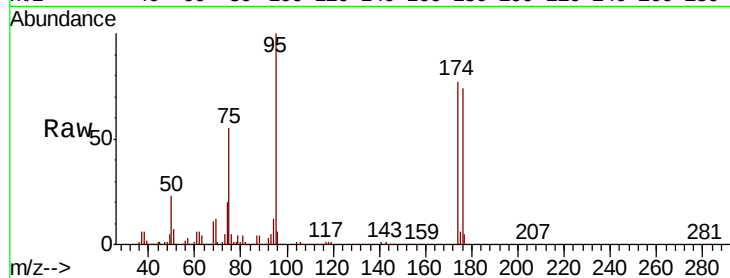




#81
trans-1,4-Dichloro-2-butene
Concen: 109.480 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.10 min
Lab File: VN057962.D
Acq: 12 Sep 2019 11:58

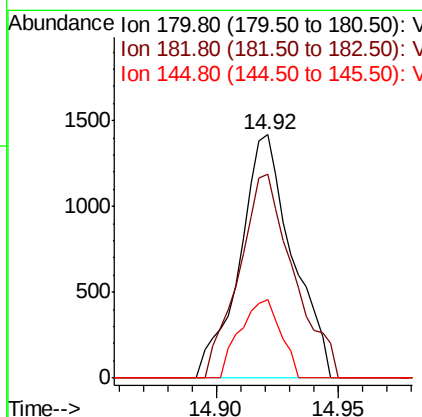
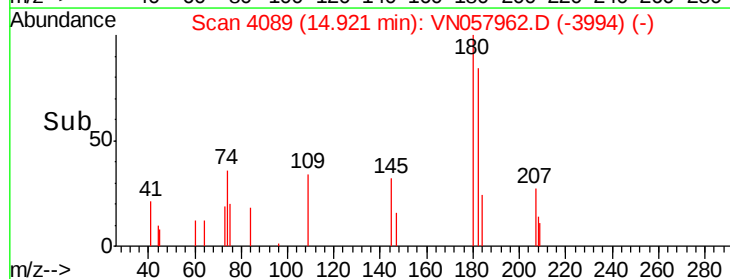
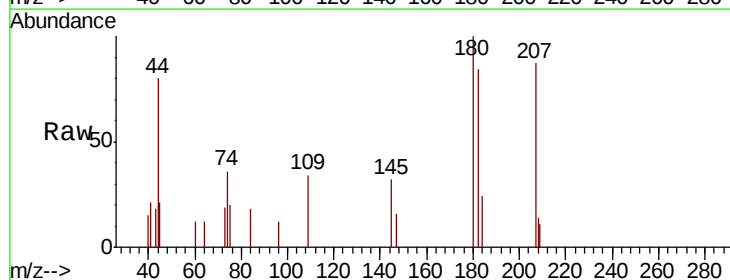
Instrument :
MSVOA_N
ClientSampleId :
T11-D4-(0)

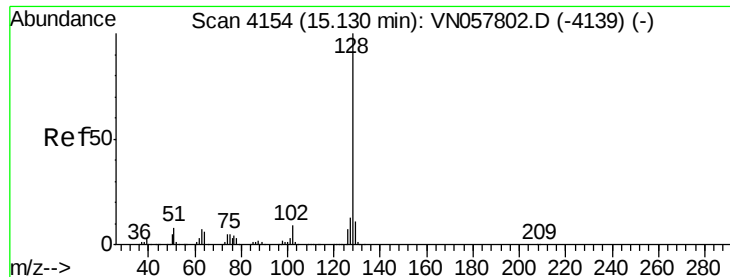
Tgt Ion: 75 Resp: 157930
Ion Ratio Lower Upper
75 100
53 0.1 88.4 132.6#
89 0.0 35.3 52.9#



#93
1,2,4-Trichlorobenzene
Concen: 0.405 ug/l
RT: 14.92 min Scan# 4089
Delta R.T. 0.01 min
Lab File: VN057962.D
Acq: 12 Sep 2019 11:58

Tgt Ion: 180 Resp: 2105
Ion Ratio Lower Upper
180 100
182 87.3 46.9 140.8
145 25.1 14.9 44.7





#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN057962.D

Acq: 12 Sep 2019 11:58

Instrument :

MSVOA_N

ClientSampleId :

T11-D4-(0)

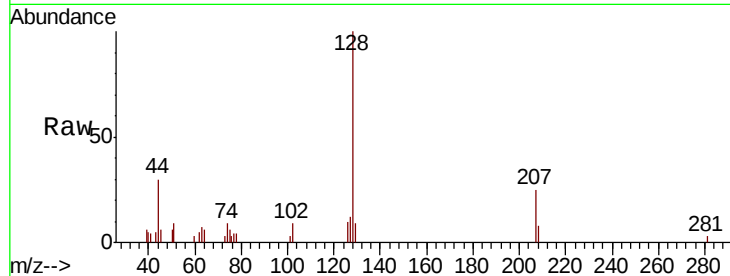
Tgt Ion:128 Resp: 8793

Ion Ratio Lower Upper

128 100

127 12.5 10.3 15.5

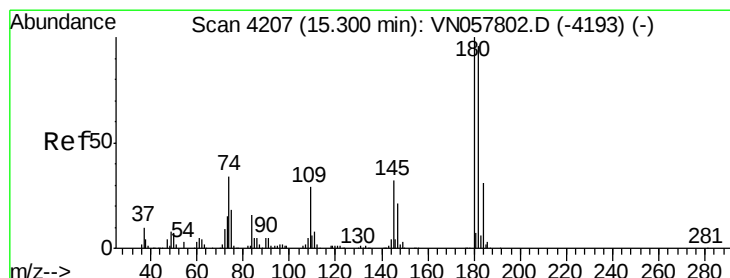
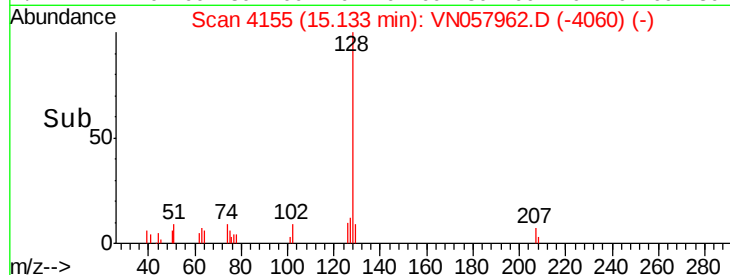
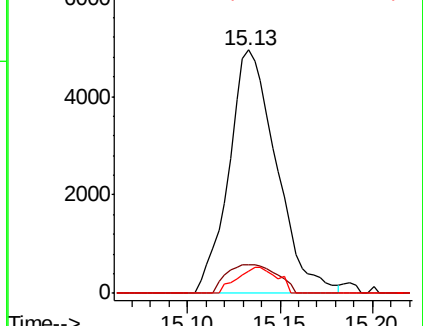
129 8.9 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 1.554 ug/l

RT: 15.30 min Scan# 4208

Delta R.T. 0.00 min

Lab File: VN057962.D

Acq: 12 Sep 2019 11:58

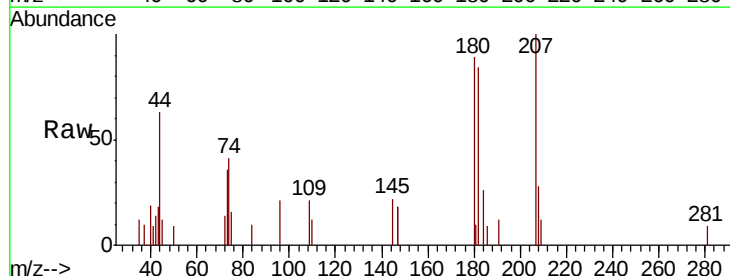
Tgt Ion:180 Resp: 2575

Ion Ratio Lower Upper

180 100

182 85.9 48.3 144.8

145 16.6 16.3 48.8



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

