

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091619\
 Data File : VN058120.D
 Acq On : 16 Sep 2019 15:45
 Operator : JC/SP
 Sample : K4719-31
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T4-4(0)-HELLGATE

Quant Time: Sep 17 03:52:15 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	312451	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	532198	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	491183	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	260895	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	367784	58.12	ug/l	0.00
Spiked Amount			Recovery	=	116.24%	
35) Dibromofluoromethane	7.58	113	251028	51.11	ug/l	0.00
Spiked Amount			Recovery	=	102.22%	
50) Toluene-d8	10.09	98	1001313	52.50	ug/l	0.00
Spiked Amount			Recovery	=	105.00%	
62) 4-Bromofluorobenzene	12.41	95	330811	45.52	ug/l	0.00
Spiked Amount			Recovery	=	91.04%	

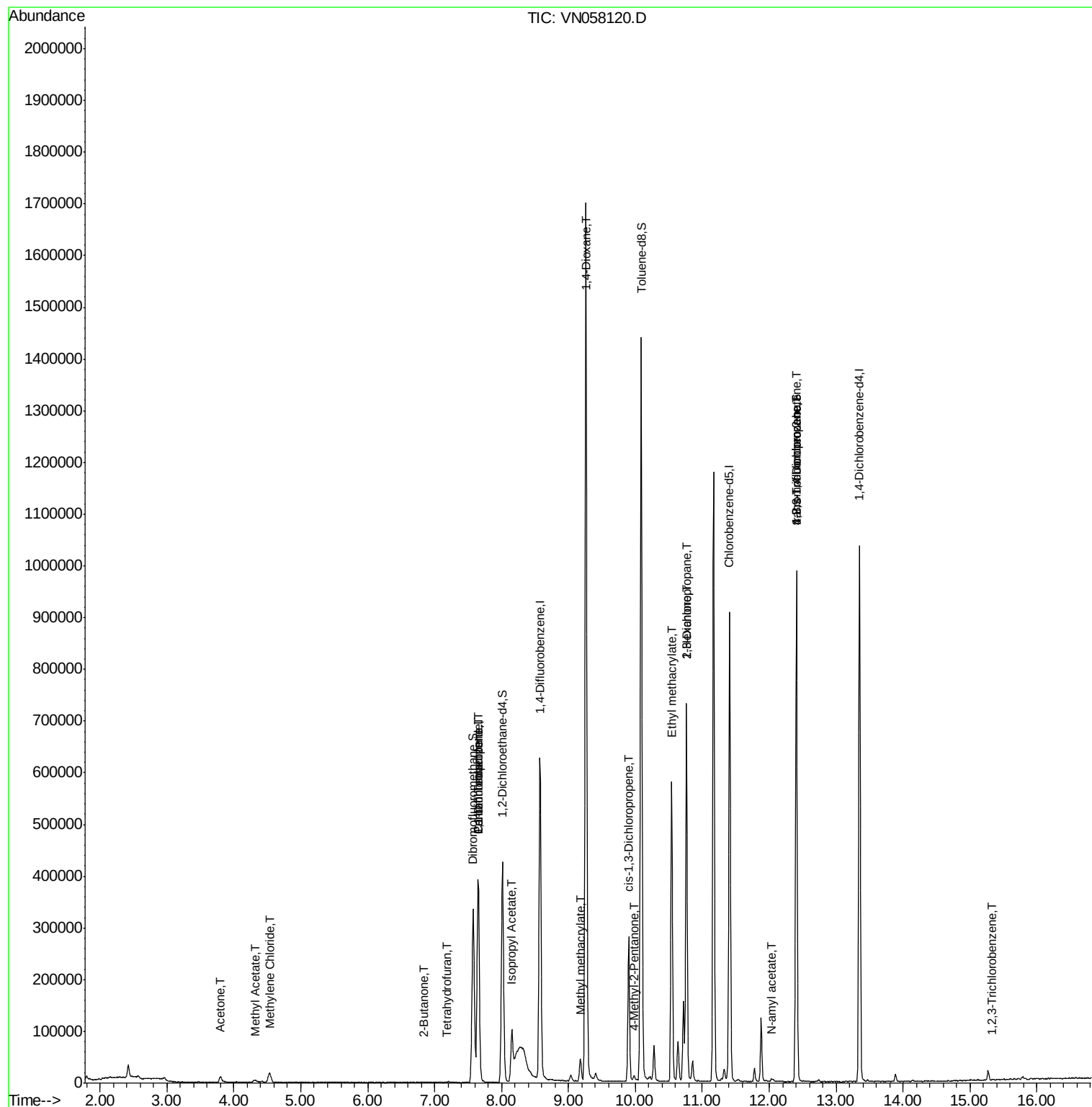
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.56	94	192	Below Cal	#	2
16) Acetone	3.80	43	20394	9.830	ug/l	93
18) Methyl Acetate	4.32	43	6538	1.182	ug/l	97
20) Methylene Chloride	4.53	84	14470	2.494	ug/l	92
25) 2-Butanone	6.83	43	1139	0.379	ug/l #	67
29) Tetrahydrofuran	7.18	42	772	0.417	ug/l #	34
31) Cyclohexane	7.65	56	7894	Below Cal	#	11
36) 1,1-Dichloropropene	7.65	75	26617	4.312	ug/l #	51
38) Carbon Tetrachloride	7.65	117	32188	5.712	ug/l #	16
43) Isopropyl Acetate	8.15	43	127036	11.846	ug/l #	87
48) Methyl methacrylate	9.17	41	6842	1.258	ug/l #	13
49) 1,4-Dioxane	9.27	88	166	1.804	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	8800	1.387	ug/l	94
54) cis-1,3-Dichloropropene	9.90	75	48388	6.379	ug/l #	65
56) Ethyl methacrylate	10.54	69	2398	0.321	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	7150	0.837	ug/l #	43
59) 2-Hexanone	10.76	43	111064	23.349	ug/l #	53
74) N-amyl acetate	12.03	43	4673	0.530	ug/l #	47
76) 1,2,3-Trichloropropane	12.41	75	182794	30.972	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	182794	108.991	ug/l #	6
95) Naphthalene	15.13	128	478	Below Cal	#	69
96) 1,2,3-Trichlorobenzene	15.31	180	33	1.004	ug/l #	12

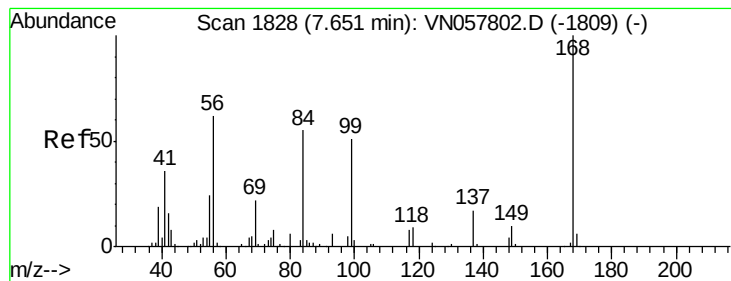
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_N\DATA\VN091619\
Data File : VN058120.D
Acq On : 16 Sep 2019 15:45
Operator : JC/SP
Sample : K4719-31
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
T4-4(0)-HELLGATE

Quant Time: Sep 17 03:52:15 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
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: VN058120.D

Acq: 16 Sep 2019 15:45

Instrument :

MSVOA_N

ClientSampleId :

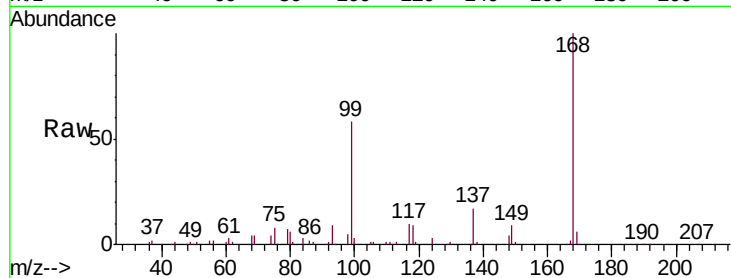
T4-4(0)-HELLGATE

Tgt Ion:168 Resp: 312451

Ion Ratio Lower Upper

168 100

99 57.9 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): VN058120.D (-1735) (-)

Ion 98.90 (98.60 to 99.60): VN058120.D (-1735) (-)

7.65

150000

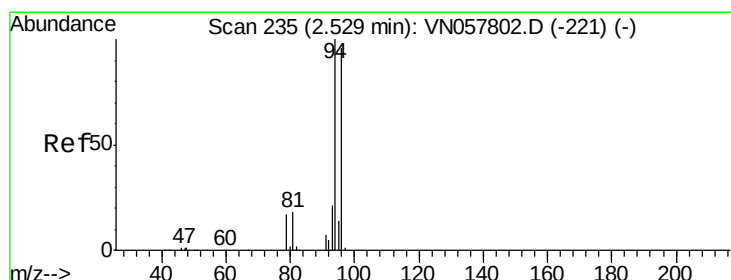
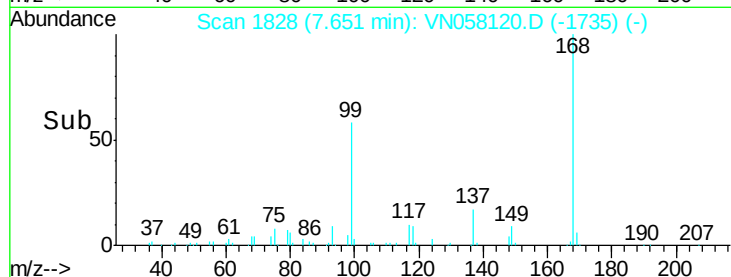
100000

50000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 246

Delta R.T. 0.04 min

Lab File: VN058120.D

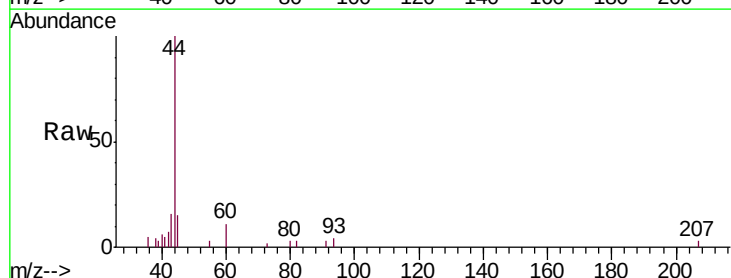
Acq: 16 Sep 2019 15:45

Tgt Ion: 94 Resp: 192

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN058120.D (-141) (-)

Ion 95.90 (95.60 to 96.60): VN058120.D (-141) (-)

2.56

250

200

150

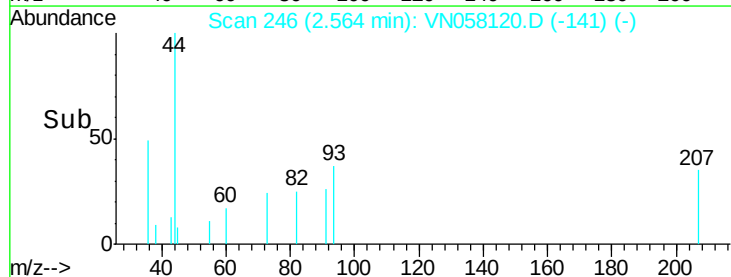
100

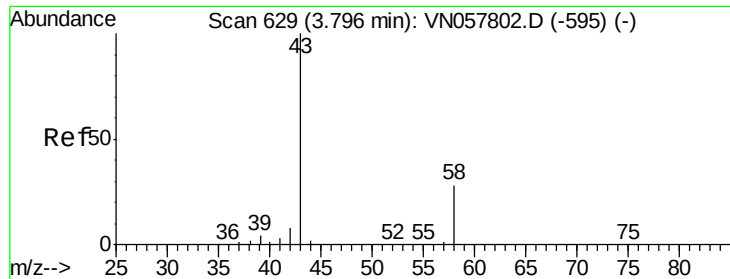
50

0

2.54 2.55 2.56 2.57 2.58

Time-->

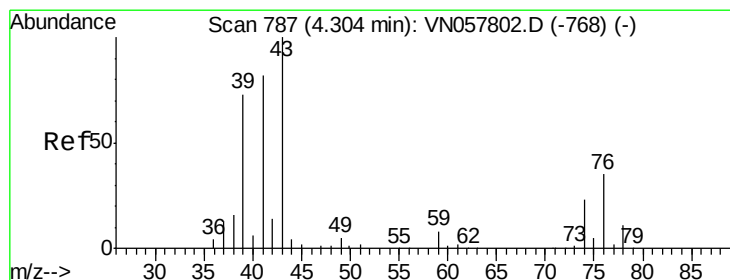
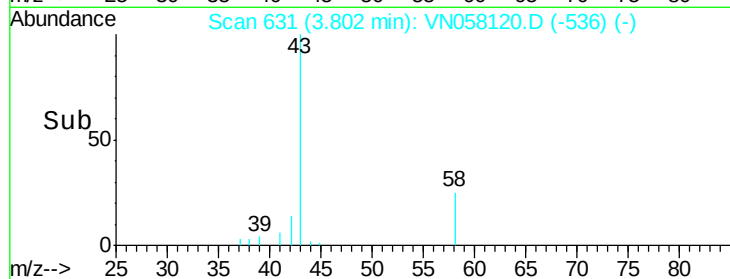
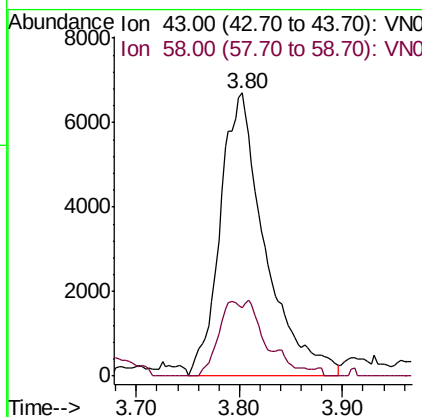
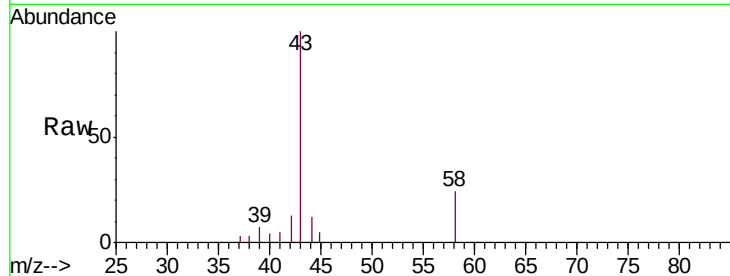




#16
 Acetone
 Concen: 9.830 ug/l
 RT: 3.80 min Scan# 631
 Delta R.T. 0.01 min
 Lab File: VN058120.D
 Acq: 16 Sep 2019 15:45

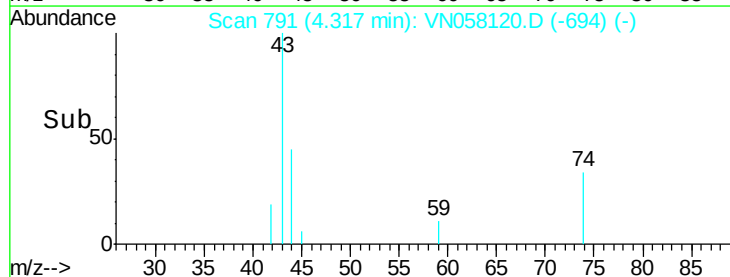
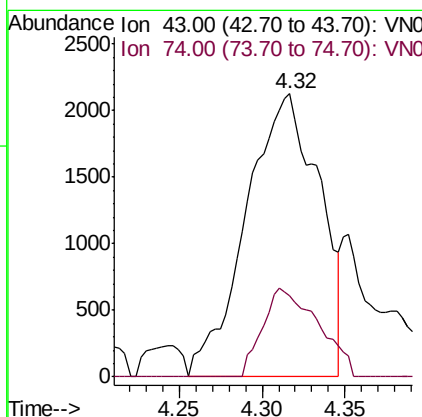
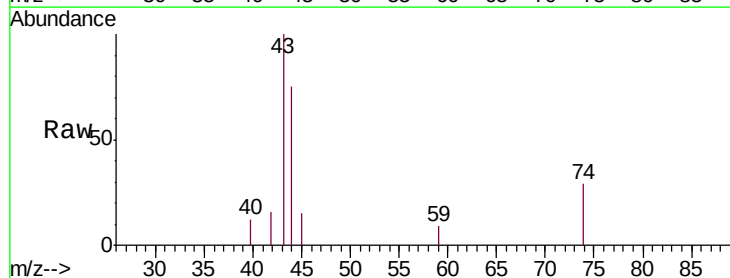
Instrument :
 MSVOA_N
 ClientSampleId :
 T4-4(0)-HELLGATE

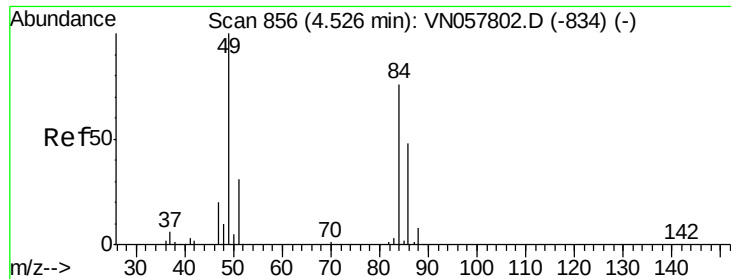
Tgt Ion: 43 Resp: 20394
 Ion Ratio Lower Upper
 43 100
 58 24.3 22.2 33.2



#18
 Methyl Acetate
 Concen: 1.182 ug/l
 RT: 4.32 min Scan# 791
 Delta R.T. 0.01 min
 Lab File: VN058120.D
 Acq: 16 Sep 2019 15:45

Tgt Ion: 43 Resp: 6538
 Ion Ratio Lower Upper
 43 100
 74 23.9 17.9 26.9

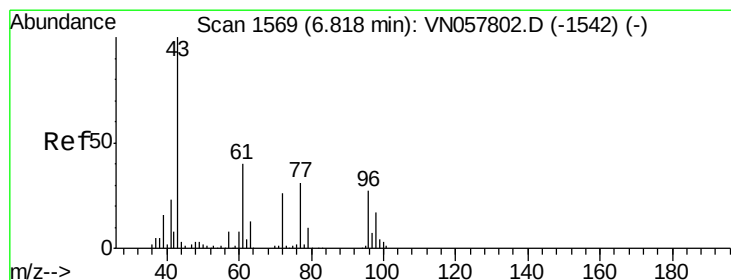
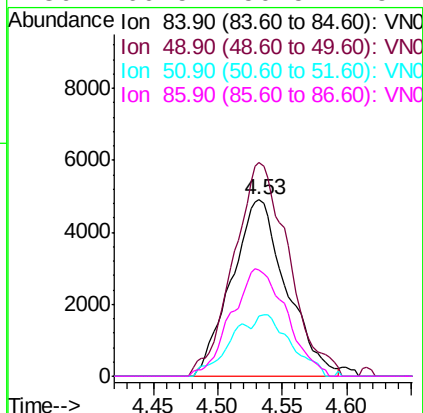
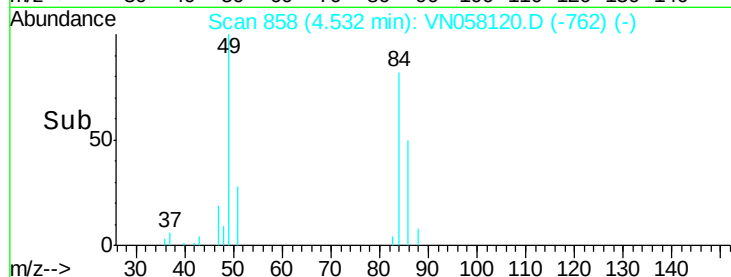
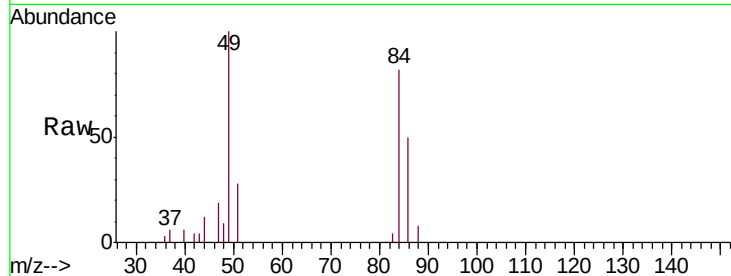




#20
Methylene Chloride
Concen: 2.494 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN058120.D
Acq: 16 Sep 2019 15:45

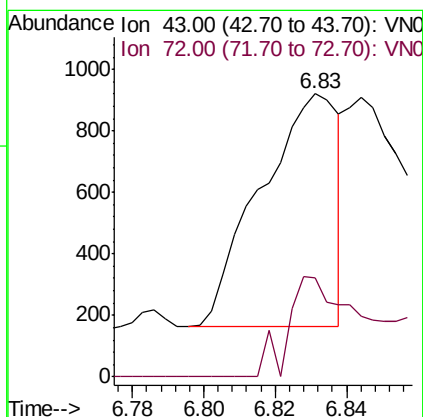
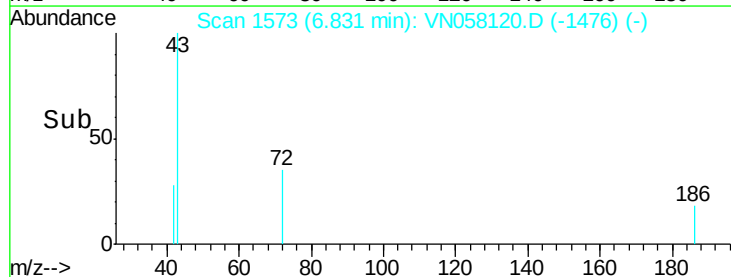
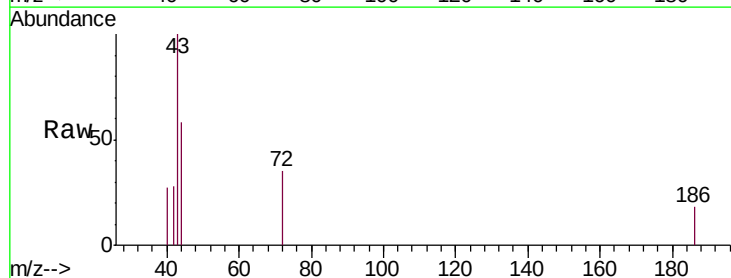
Instrument :
MSVOA_N
ClientSampleId :
T4-4(0)-HELLGATE

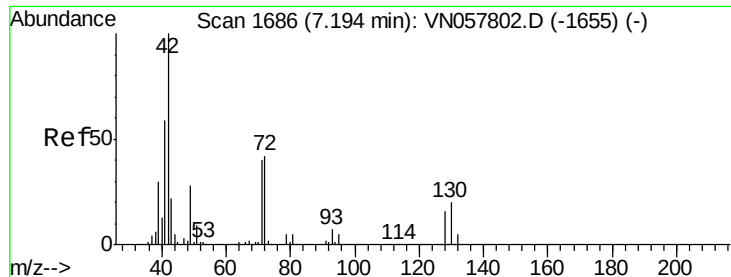
Tgt Ion: 84 Resp: 14470
Ion Ratio Lower Upper
84 100
49 121.3 104.8 157.2
51 33.9 33.0 49.4
86 60.5 50.5 75.7



#25
2-Butanone
Concen: 0.379 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.01 min
Lab File: VN058120.D
Acq: 16 Sep 2019 15:45

Tgt Ion: 43 Resp: 1139
Ion Ratio Lower Upper
43 100
72 42.4 20.6 30.8#





#29

Tetrahydrofuran

Concen: 0.417 ug/l

RT: 7.18 min Scan# 1683

Delta R.T. -0.01 min

Lab File: VN058120.D

Acq: 16 Sep 2019 15:45

Instrument :

MSVOA_N

ClientSampleId :

T4-4(0)-HELLGATE

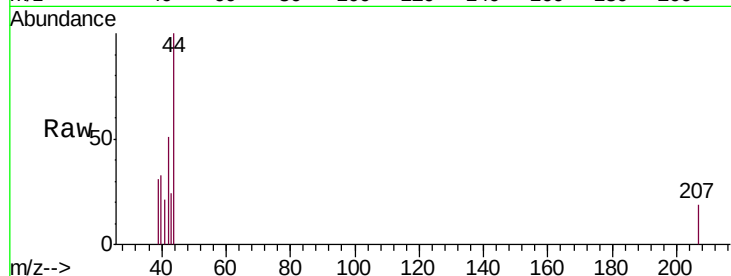
Tgt Ion: 42 Resp: 772

Ion Ratio Lower Upper

42 100

72 0.0 33.7 50.5#

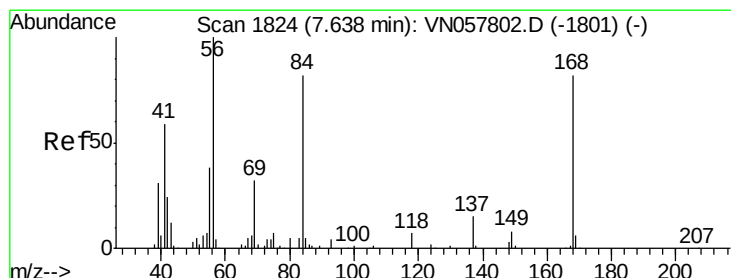
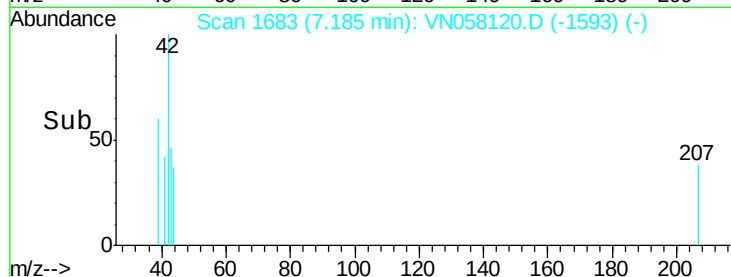
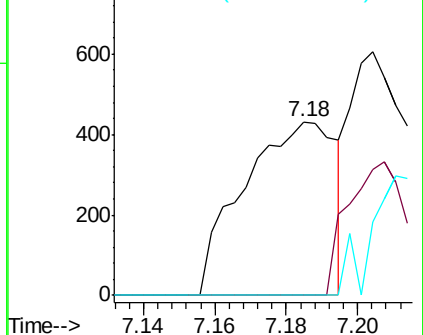
71 0.0 31.9 47.9#



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# 1827

Delta R.T. 0.01 min

Lab File: VN058120.D

Acq: 16 Sep 2019 15:45

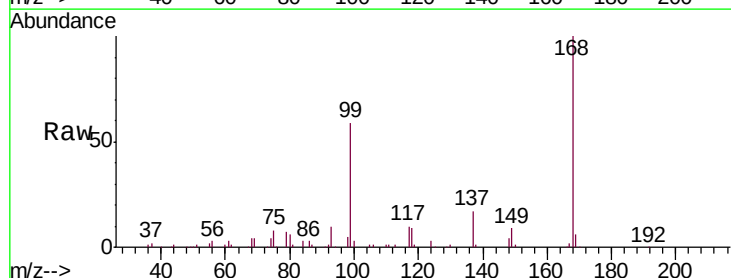
Tgt Ion: 56 Resp: 7894

Ion Ratio Lower Upper

56 100

69 142.0 25.9 38.9#

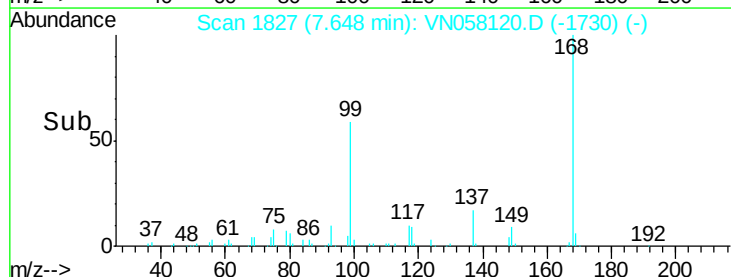
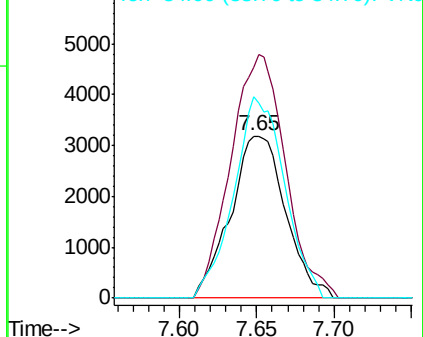
84 124.5 65.6 98.4#

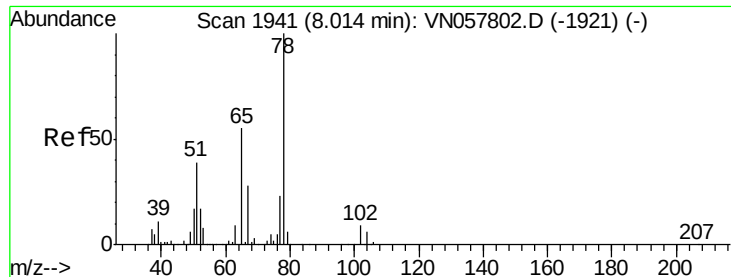


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

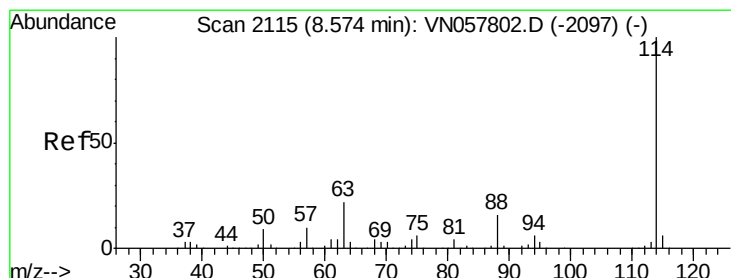
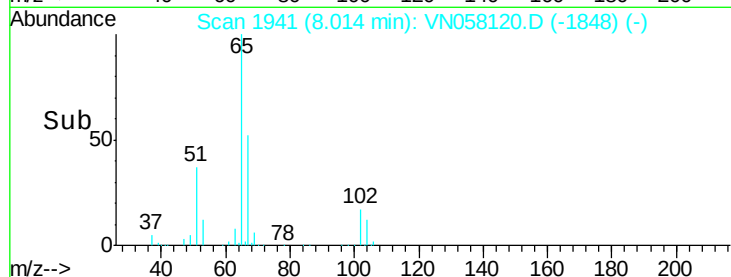
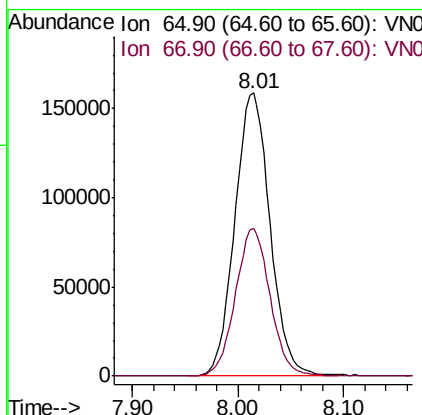
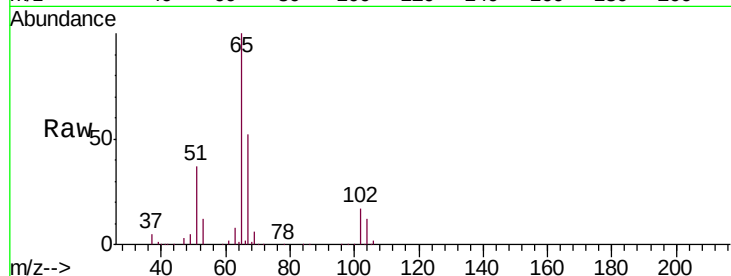




#33
 1,2-Dichloroethane-d4
 Concen: 58.116 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN058120.D
 Acq: 16 Sep 2019 15:45

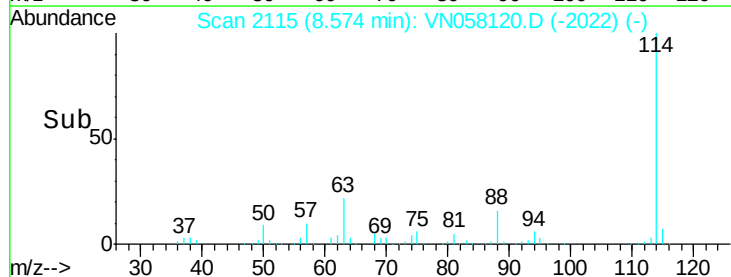
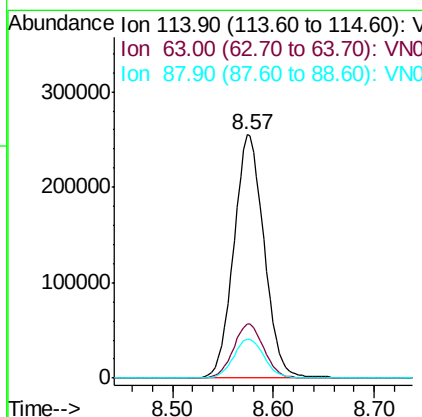
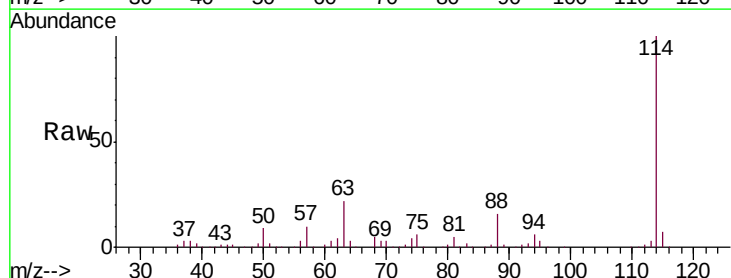
Instrument :
 MSVOA_N
 ClientSampleId :
 T4-4(0)-HELLGATE

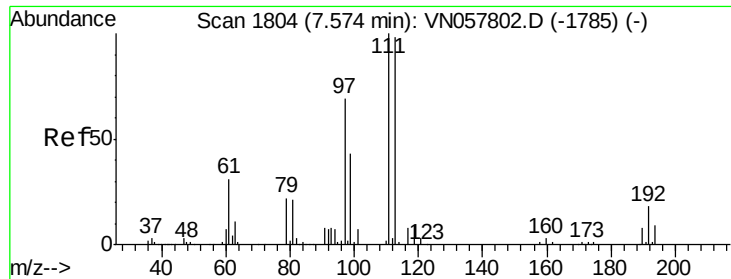
Tgt Ion: 65 Resp: 367784
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058120.D
 Acq: 16 Sep 2019 15:45

Tgt Ion: 114 Resp: 532198
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 44.0
 88 16.0 0.0 31.4

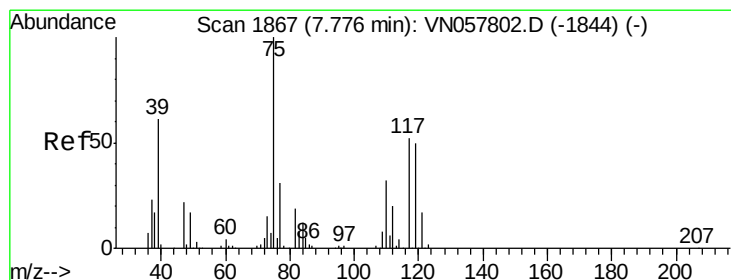
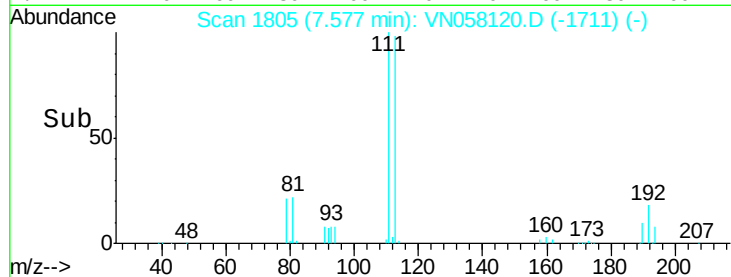
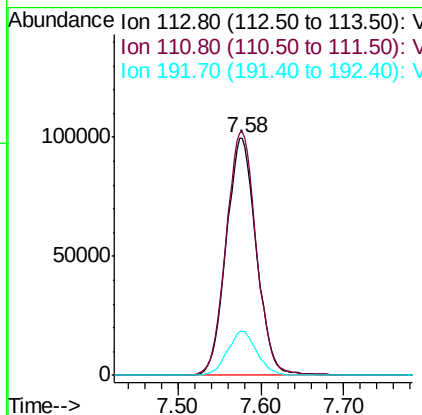
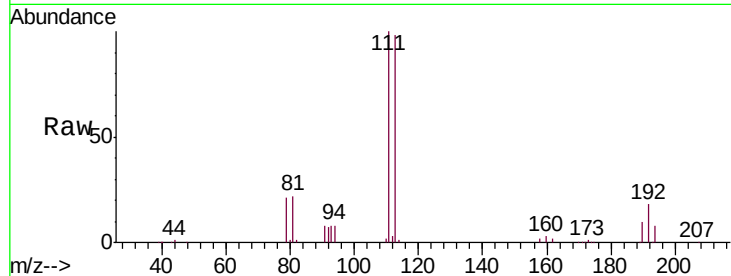




#35
 Dibromofluoromethane
 Concen: 51.105 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058120.D
 Acq: 16 Sep 2019 15:45

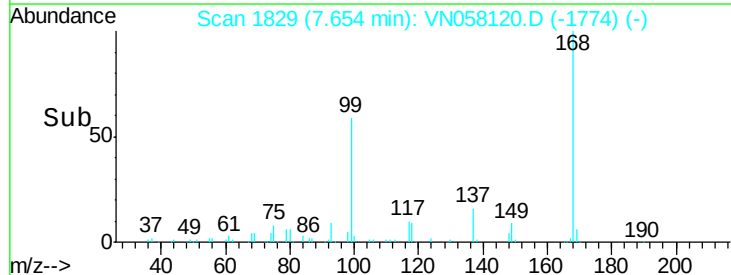
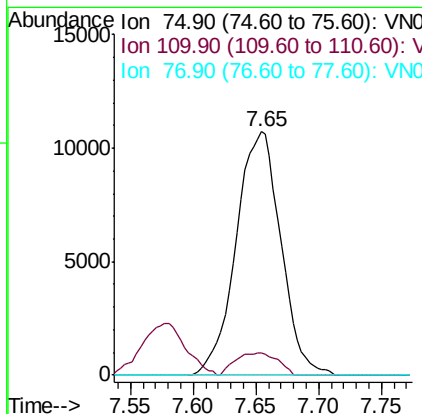
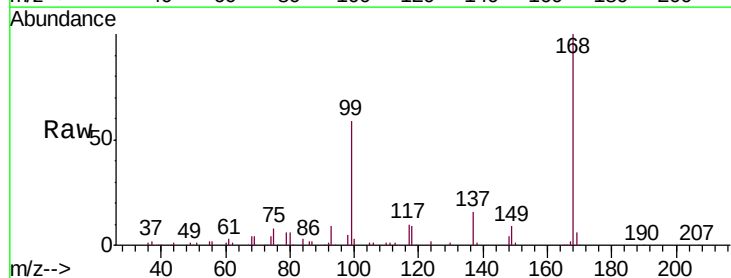
Instrument :
 MSVOA_N
 ClientSampleId :
 T4-4(0)-HELLGATE

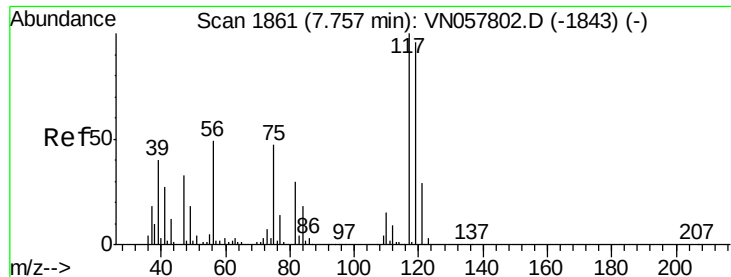
Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.1	81.3	121.9
192	18.3	14.6	22.0



#36
 1,1-Dichloropropene
 Concen: 4.312 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN058120.D
 Acq: 16 Sep 2019 15:45

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.7	16.3	48.9#
77	0.0	25.0	37.4#

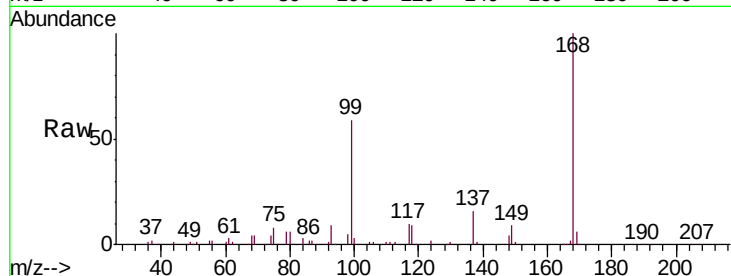




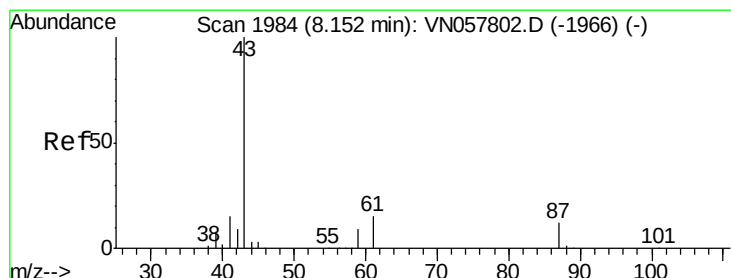
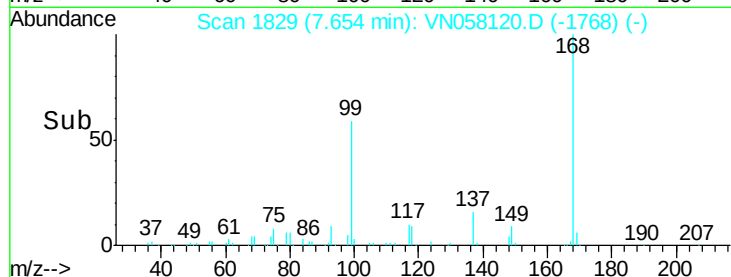
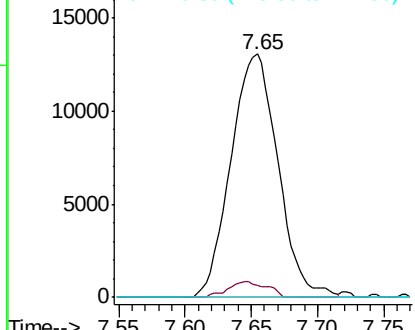
#38
Carbon Tetrachloride
Concen: 5.712 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. -0.10 min
Lab File: VN058120.D
Acq: 16 Sep 2019 15:45

Instrument :
MSVOA_N
ClientSampleId :
T4-4(0)-HELLGATE

Tgt Ion:117 Resp: 32188
Ion Ratio Lower Upper
117 100
119 4.9 76.9 115.3#
121 0.0 23.4 35.2#

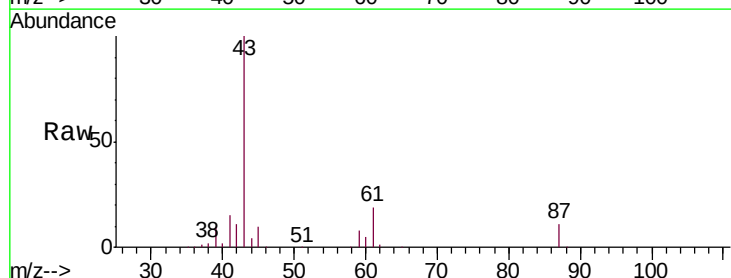


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

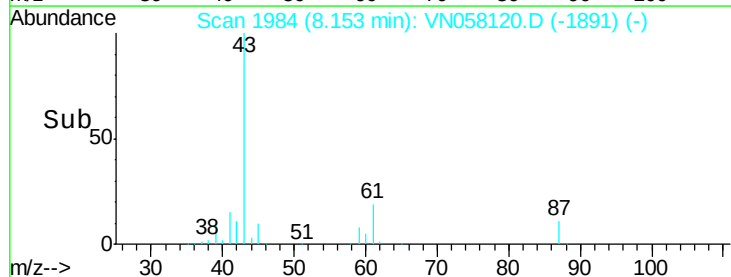
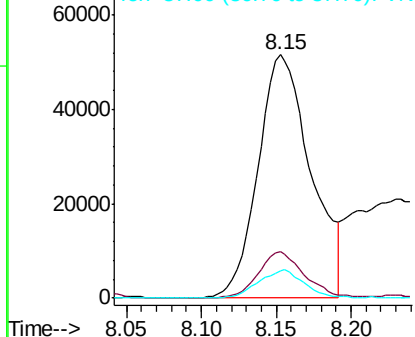


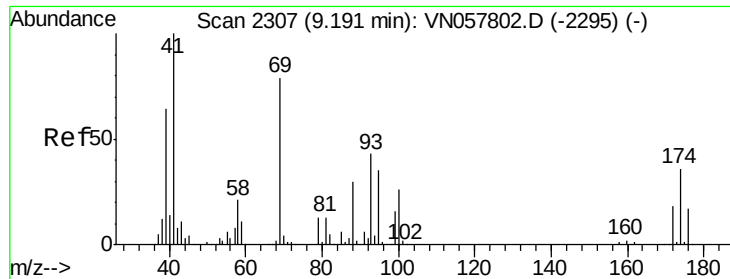
#43
Isopropyl Acetate
Concen: 11.846 ug/l
RT: 8.15 min Scan# 1984
Delta R.T. 0.00 min
Lab File: VN058120.D
Acq: 16 Sep 2019 15:45

Tgt Ion: 43 Resp: 127036
Ion Ratio Lower Upper
43 100
61 16.5 20.1 30.1#
87 10.0 9.5 14.3



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 61.00 (60.70 to 61.70): V
Ion 87.00 (86.70 to 87.70): V

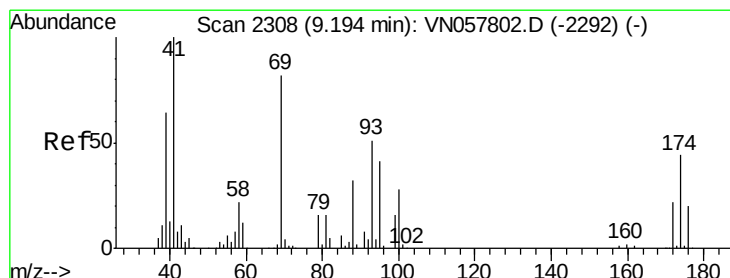
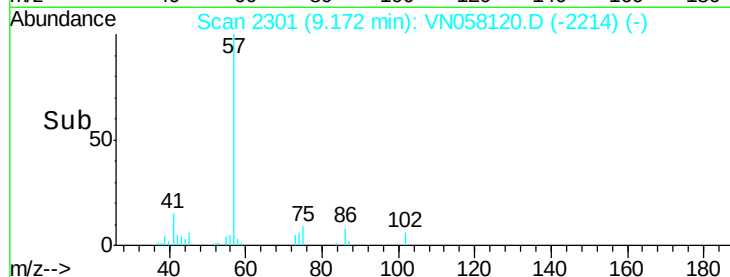
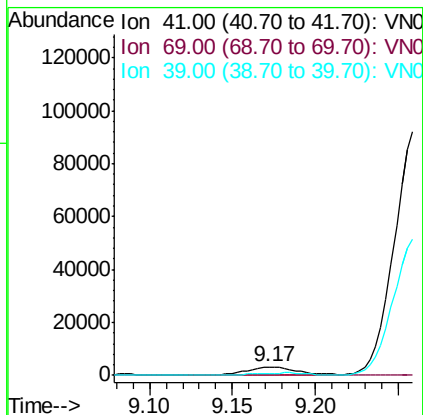
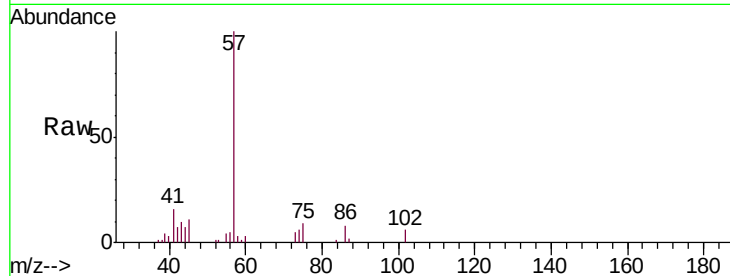




#48
Methyl methacrylate
Concen: 1.258 ug/l
RT: 9.17 min Scan# 2301
Delta R.T. -0.02 min
Lab File: VN058120.D
Acq: 16 Sep 2019 15:45

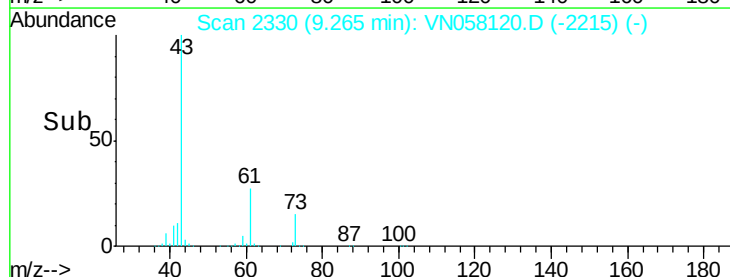
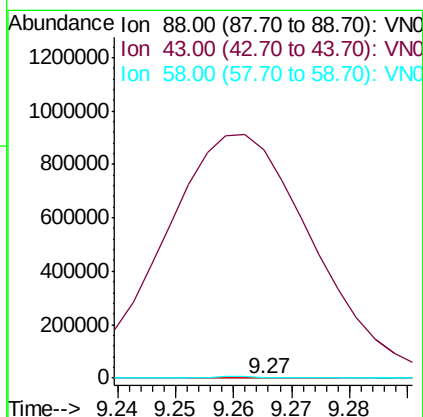
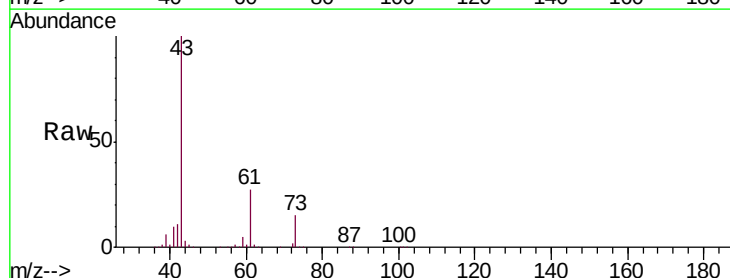
Instrument :
MSVOA_N
ClientSampleId :
T4-4(0)-HELLGATE

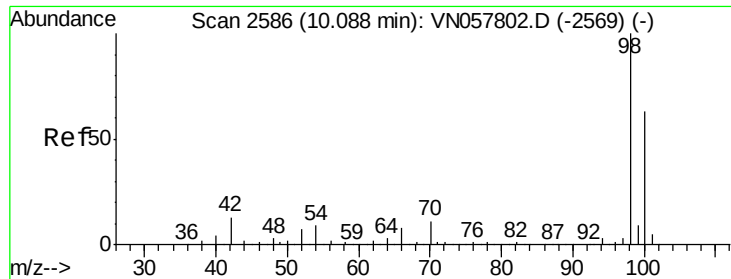
Tgt Ion: 41 Resp: 6842
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.7 79.1#



#49
1,4-Dioxane
Concen: 1.804 ug/l
RT: 9.27 min Scan# 2330
Delta R.T. 0.07 min
Lab File: VN058120.D
Acq: 16 Sep 2019 15:45

Tgt Ion: 88 Resp: 166
Ion Ratio Lower Upper
88 100
43 1013492.2 28.5 42.7#
58 4984.9 55.8 83.6#

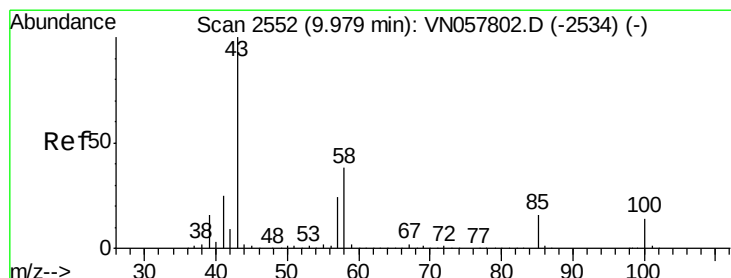
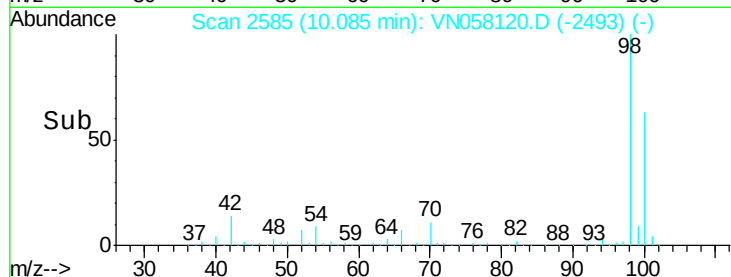
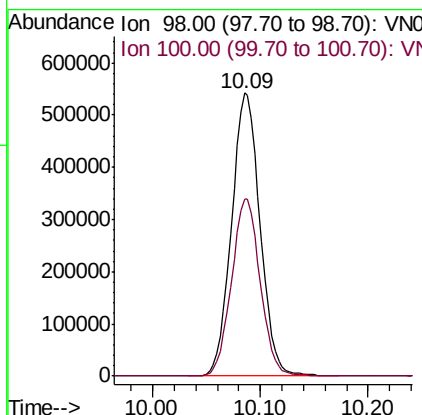
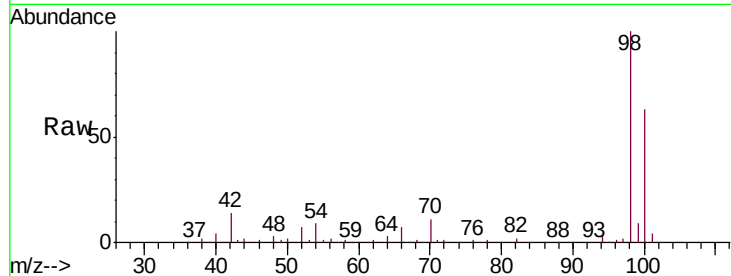




#50
Toluene-d8
Concen: 52.505 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN058120.D
Acq: 16 Sep 2019 15:45

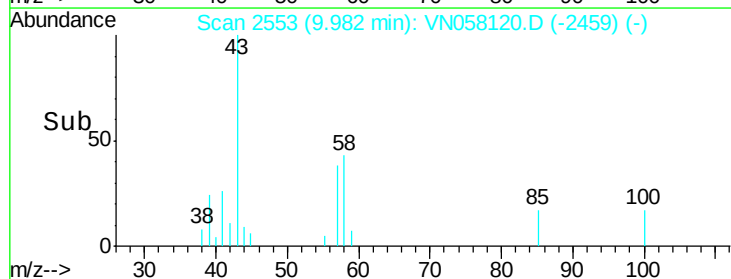
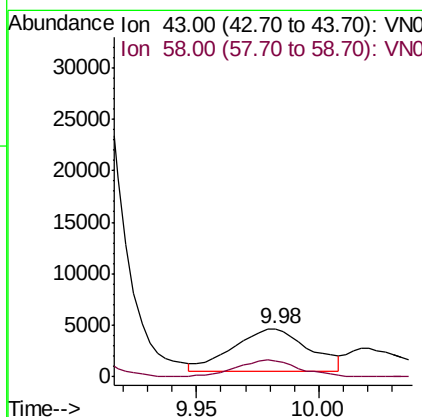
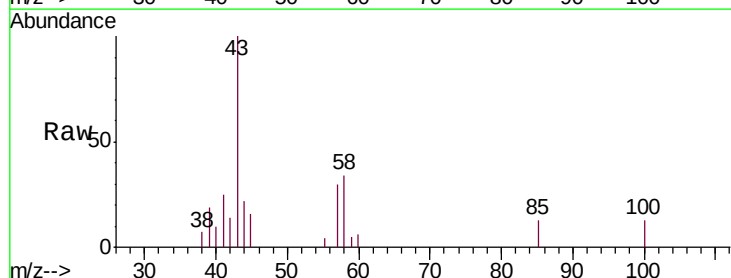
Instrument :
MSVOA_N
ClientSampleId :
T4-4(0)-HELLGATE

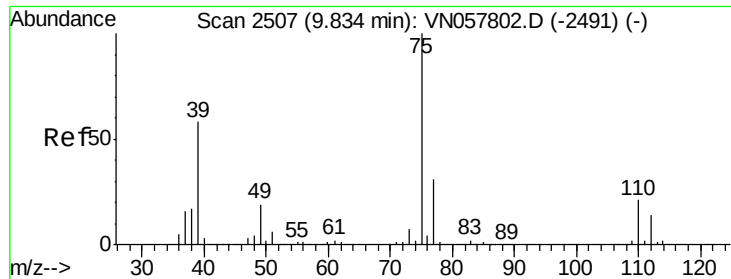
Tgt Ion: 98 Resp: 1001313
Ion Ratio Lower Upper
98 100
100 63.0 50.3 75.5



#51
4-Methyl-2-Pentanone
Concen: 1.387 ug/l
RT: 9.98 min Scan# 2553
Delta R.T. 0.00 min
Lab File: VN058120.D
Acq: 16 Sep 2019 15:45

Tgt Ion: 43 Resp: 8800
Ion Ratio Lower Upper
43 100
58 33.6 29.8 44.6





#54

cis-1,3-Dichloropropene

Concen: 6.379 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN058120.D

Acq: 16 Sep 2019 15:45

Instrument :

MSVOA_N

ClientSampleId :

T4-4(0)-HELLGATE

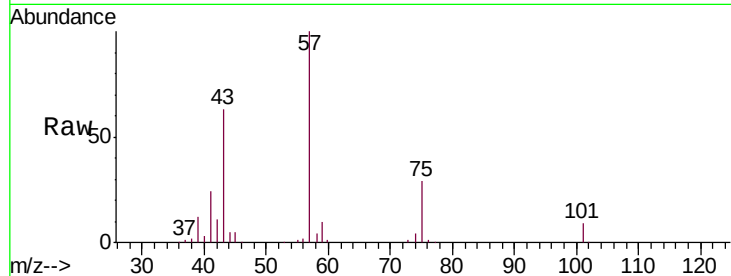
Tgt Ion: 75 Resp: 48388

Ion Ratio Lower Upper

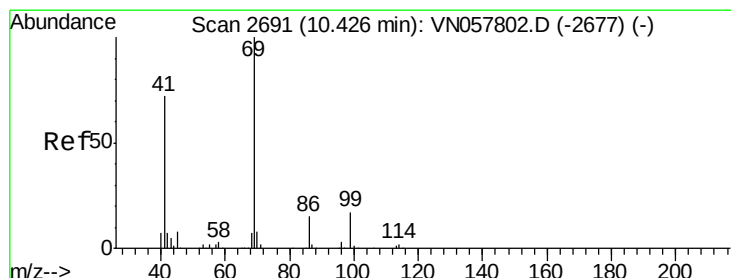
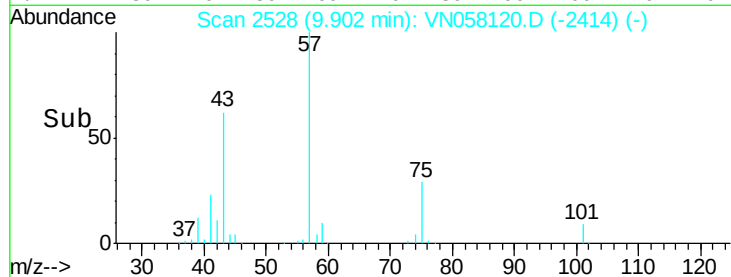
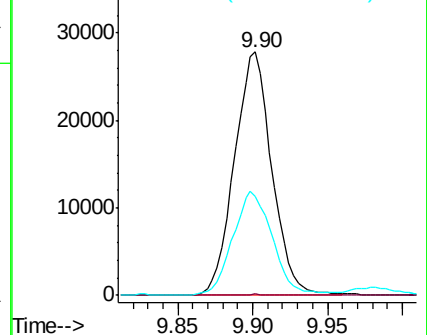
75 100

77 0.6 24.8 37.2#

39 40.5 46.2 69.4#



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



#56

Ethyl methacrylate

Concen: 0.321 ug/l

RT: 10.54 min Scan# 2726

Delta R.T. 0.11 min

Lab File: VN058120.D

Acq: 16 Sep 2019 15:45

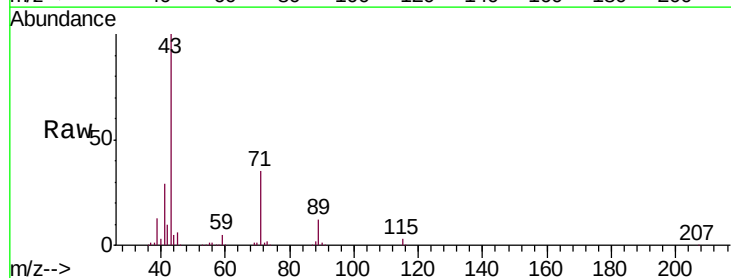
Tgt Ion: 69 Resp: 2398

Ion Ratio Lower Upper

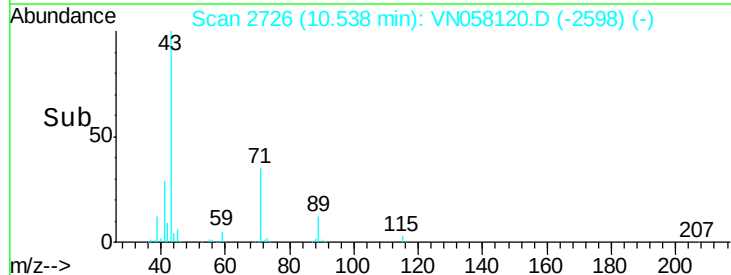
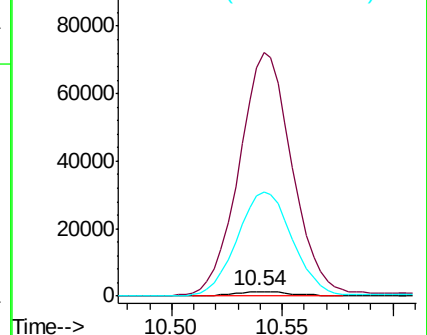
69 100

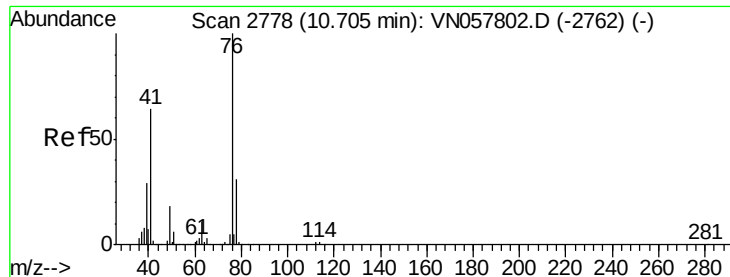
41 5068.6 56.7 85.1#

39 2255.1 36.3 54.5#



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





#57

1,3-Dichloropropane

Concen: 0.837 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN058120.D

Acq: 16 Sep 2019 15:45

Instrument :

MSVOA_N

ClientSampleId :

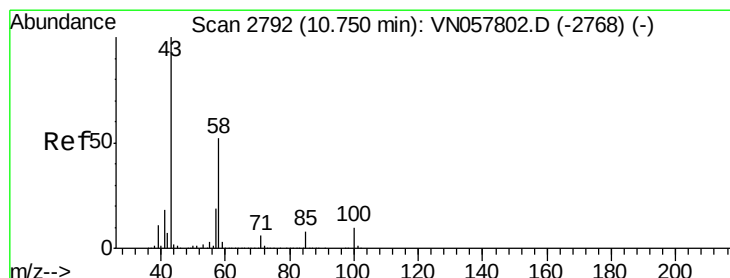
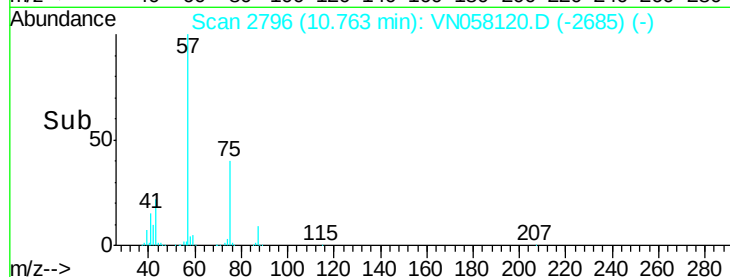
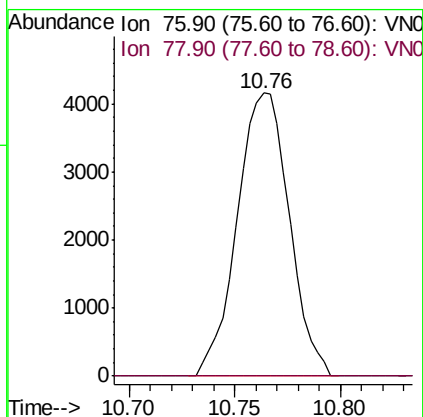
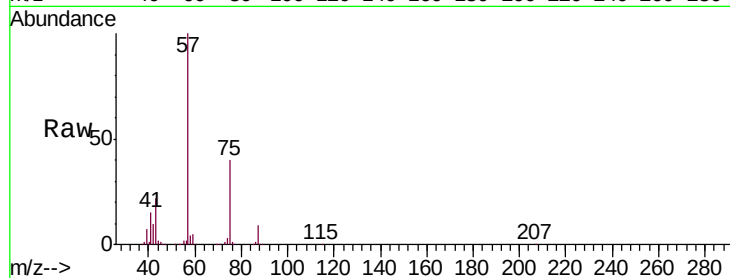
T4-4(0)-HELLGATE

Tgt Ion: 76 Resp: 7150

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#



#59

2-Hexanone

Concen: 23.349 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN058120.D

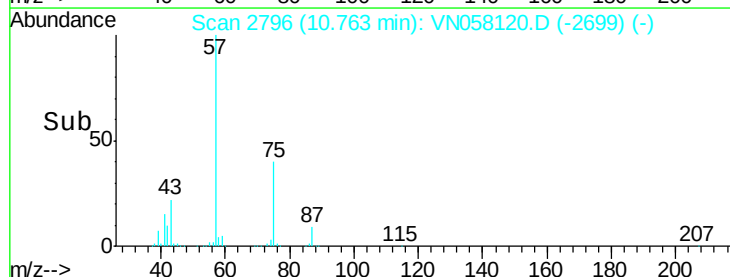
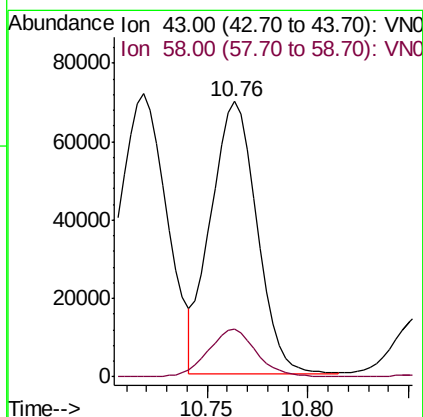
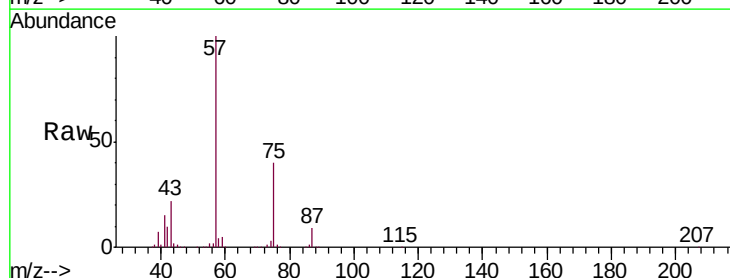
Acq: 16 Sep 2019 15:45

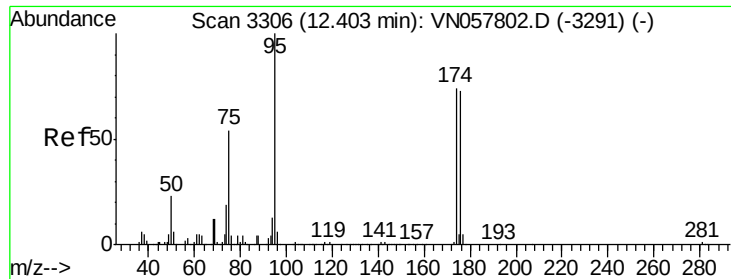
Tgt Ion: 43 Resp: 111064

Ion Ratio Lower Upper

43 100

58 18.3 25.6 76.8#





#62

4-Bromofluorobenzene

Concen: 45.518 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058120.D

Acq: 16 Sep 2019 15:45

Instrument :

MSVOA_N

ClientSampleId :

T4-4(0)-HELLGATE

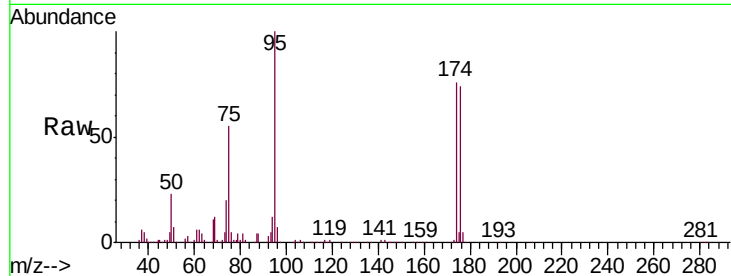
Tgt Ion: 95 Resp: 330811

Ion Ratio Lower Upper

95 100

174 76.1 0.0 150.2

176 73.6 0.0 146.0

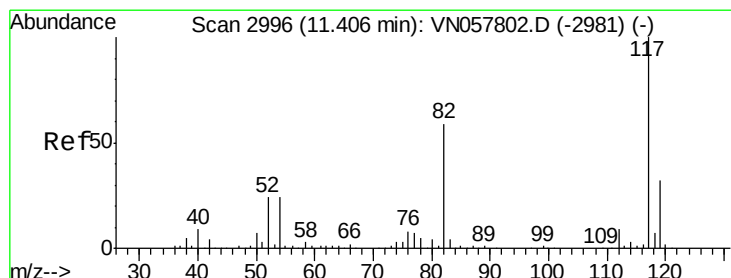
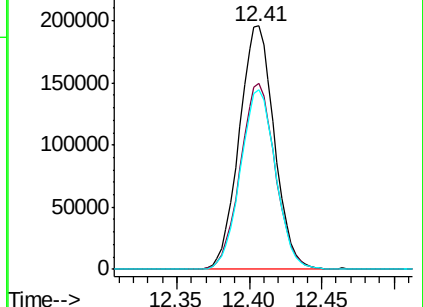
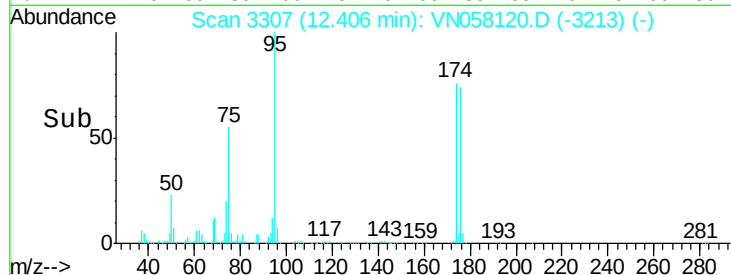


Abundance Ion 94.90 (94.60 to 95.60): VN058120.D (-3213) (-)

Ion 173.80 (173.50 to 174.50): VN058120.D (-3213) (-)

Ion 175.80 (175.50 to 176.50): VN058120.D (-3213) (-)

12.41



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058120.D

Acq: 16 Sep 2019 15:45

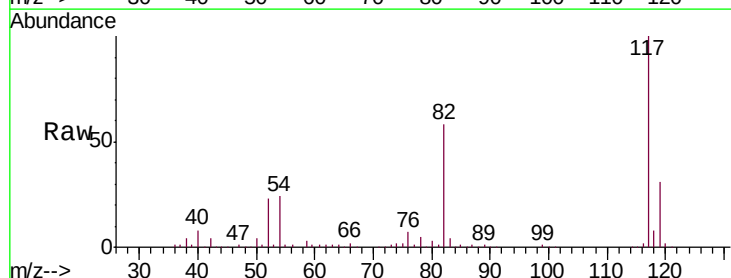
Tgt Ion: 117 Resp: 491183

Ion Ratio Lower Upper

117 100

82 57.6 47.2 70.8

119 31.1 25.3 37.9

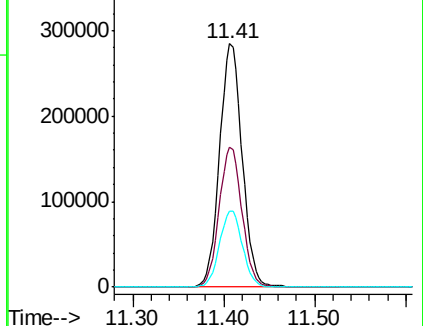
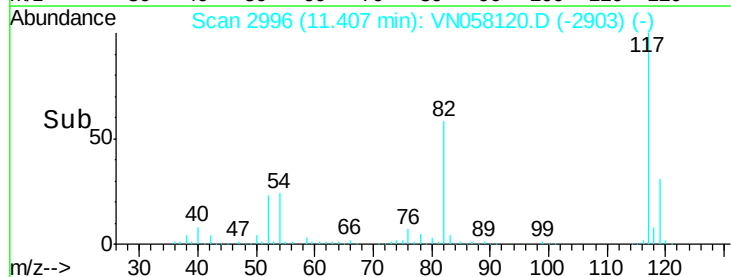


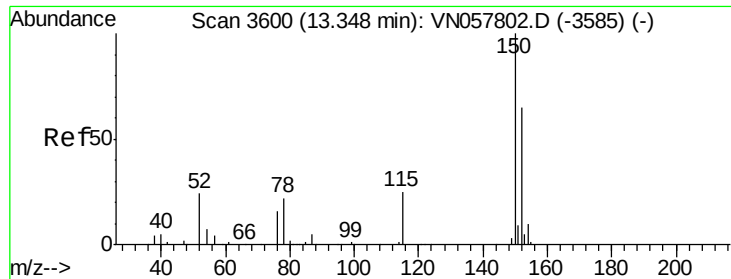
Abundance Ion 116.90 (116.60 to 117.60): VN058120.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN058120.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN058120.D (-2903) (-)

11.41





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058120.D

Acq: 16 Sep 2019 15:45

Instrument :

MSVOA_N

ClientSampleId :

T4-4(0)-HELLGATE

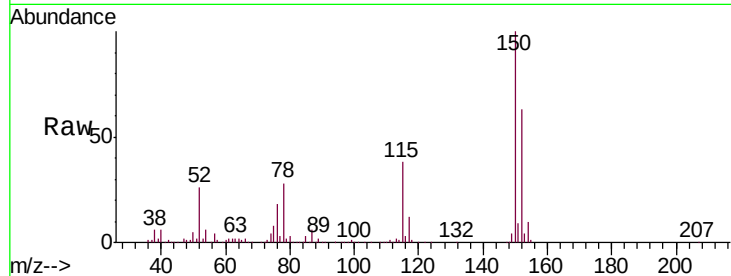
Tgt Ion:152 Resp: 260895

Ion Ratio Lower Upper

152 100

115 60.7 30.3 91.0

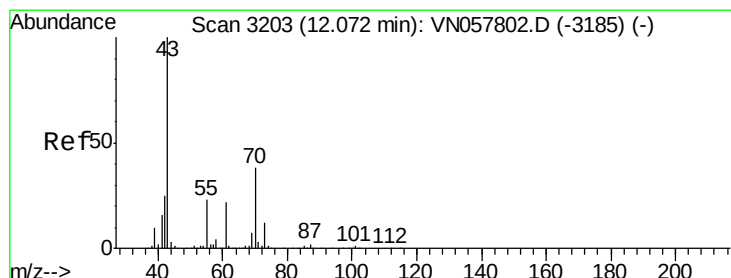
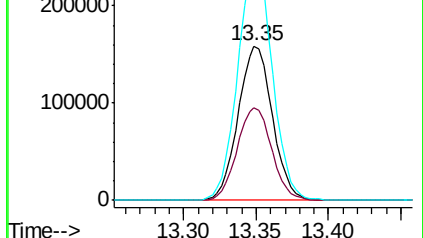
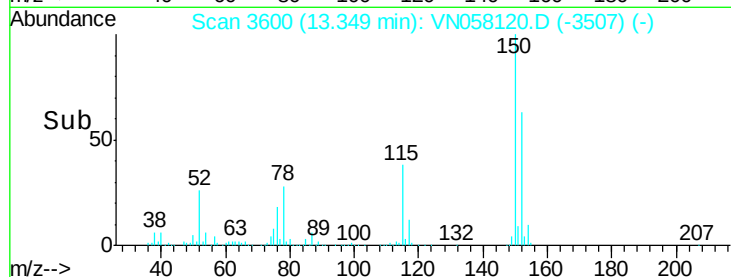
150 155.9 0.0 352.4



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



#74

N-ethyl acetate

Concen: 0.530 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN058120.D

Acq: 16 Sep 2019 15:45

Tgt Ion: 43 Resp: 4673

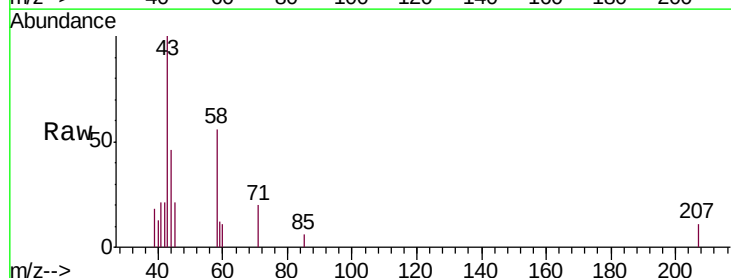
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 1.5 18.6 27.8#

61 0.0 17.4 26.2#

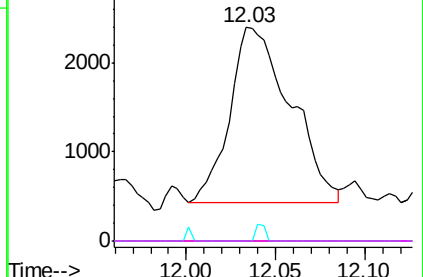
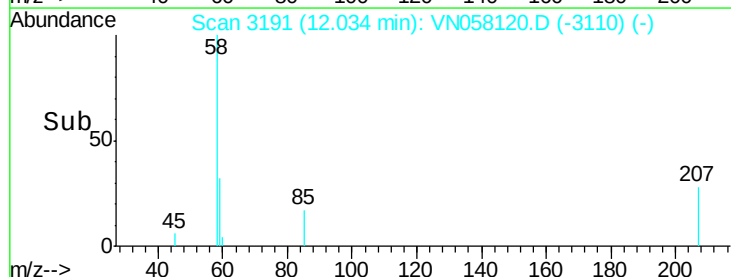


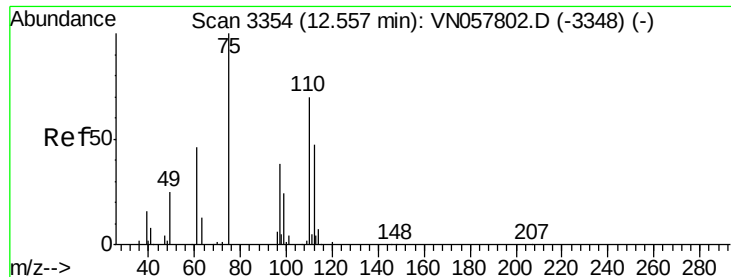
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 30.972 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058120.D

Acq: 16 Sep 2019 15:45

Instrument :

MSVOA_N

ClientSampleId :

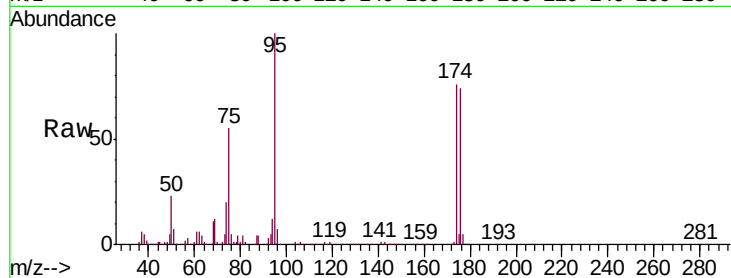
T4-4(0)-HELLGATE

Tgt Ion: 75 Resp: 182794

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.41

120000

100000

80000

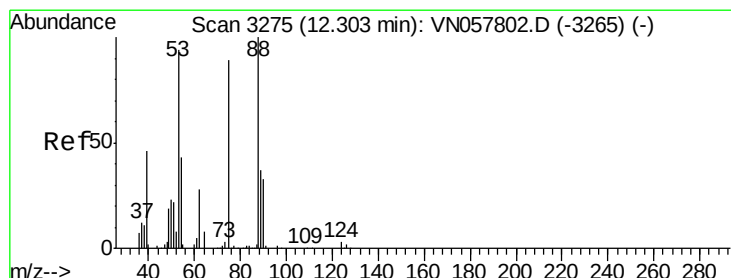
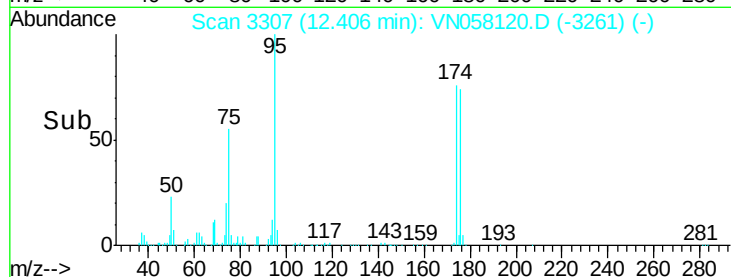
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 108.991 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058120.D

Acq: 16 Sep 2019 15:45

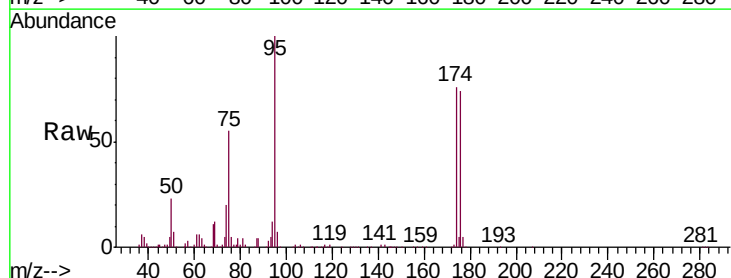
Tgt Ion: 75 Resp: 182794

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

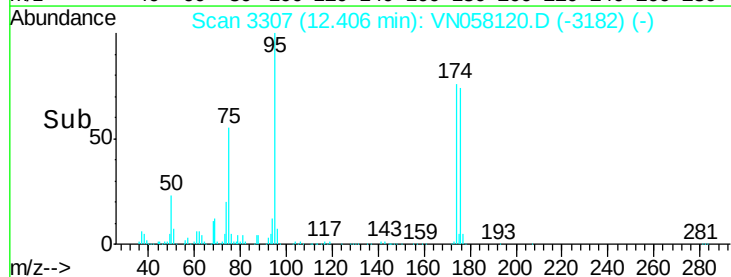
150000

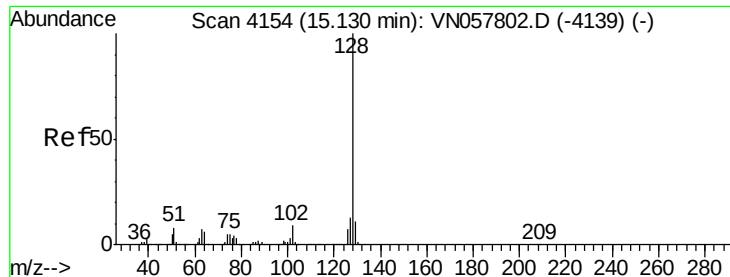
100000

50000

0

Time-->





#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058120.D

Acq: 16 Sep 2019 15:45

Instrument :

MSVOA_N

ClientSampleId :

T4-4(0)-HELLGATE

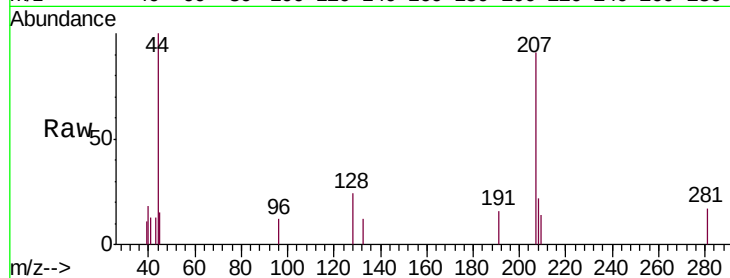
Tgt Ion:128 Resp: 478

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

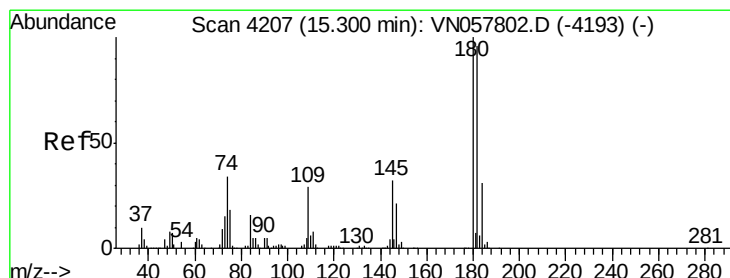
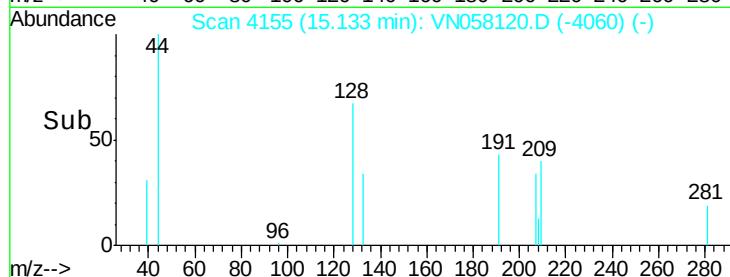
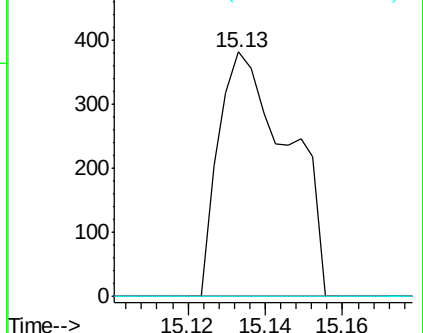
129 0.0 8.6 12.8#



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: 1.004 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.01 min

Lab File: VN058120.D

Acq: 16 Sep 2019 15:45

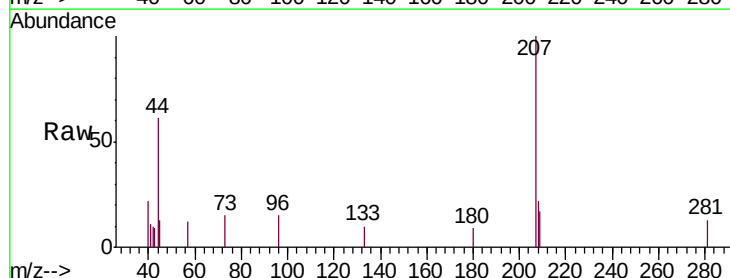
Tgt Ion:180 Resp: 33

Ion Ratio Lower Upper

180 100

182 0.0 48.3 144.8#

145 0.0 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

