

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091619\
 Data File : VN058119.D
 Acq On : 16 Sep 2019 15:23
 Operator : JC/SP
 Sample : K4719-30
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T4-3-(1.5)-HELLGATE

Quant Time: Sep 17 03:51:58 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	299317	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	519314	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	475662	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	250557	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	362872	59.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.72%	
35) Dibromofluoromethane	7.57	113	249343	52.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.04%	
50) Toluene-d8	10.08	98	978550	52.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.16%	
62) 4-Bromofluorobenzene	12.41	95	326178	45.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.98%	

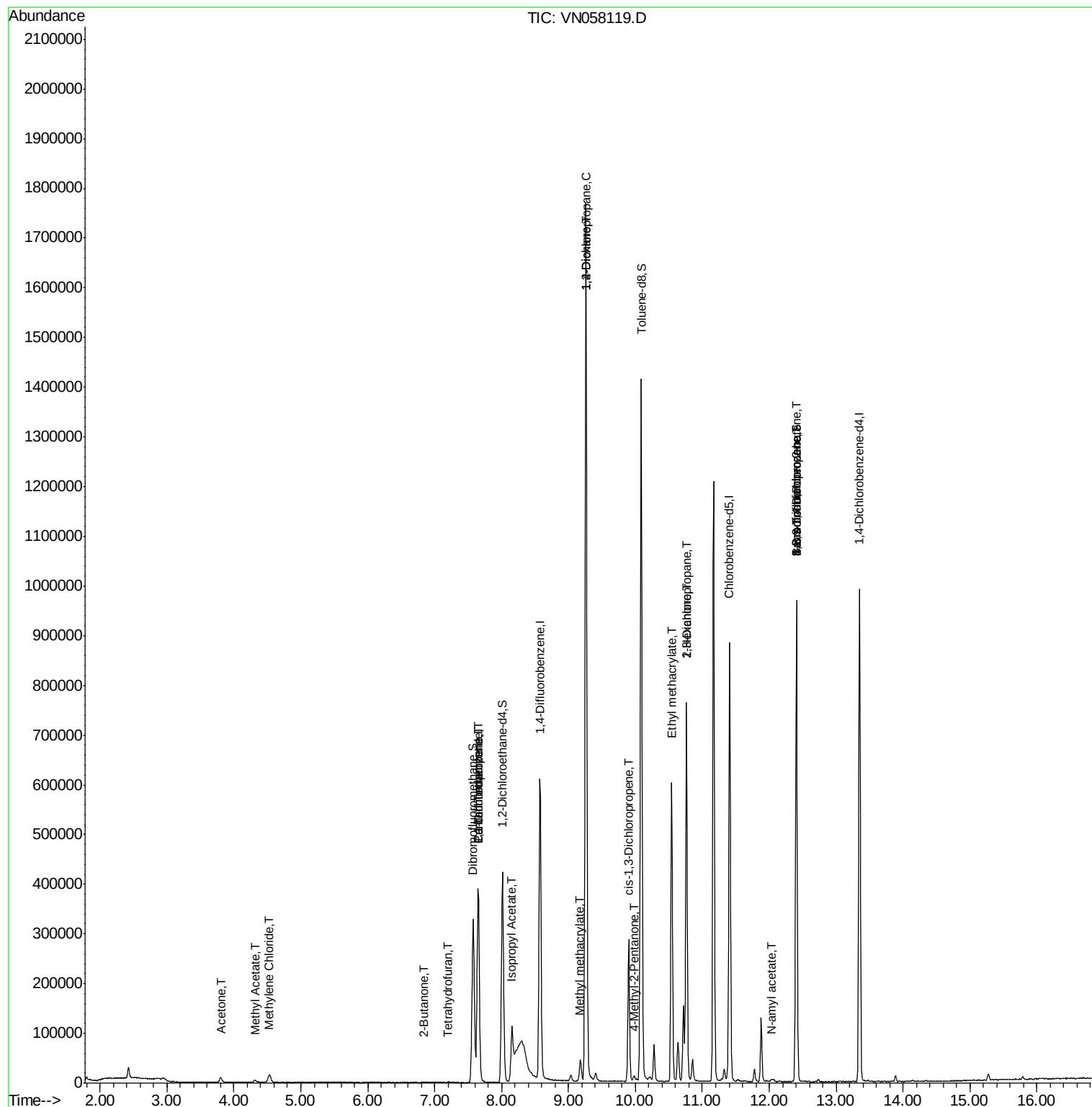
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.56	94	160	Below Cal		96
16) Acetone	3.81	43	16002	8.052	ug/l	97
18) Methyl Acetate	4.31	43	8319	1.570	ug/l #	88
20) Methylene Chloride	4.53	84	11646	1.894	ug/l	92
25) 2-Butanone	6.83	43	1015	0.353	ug/l #	72
29) Tetrahydrofuran	7.19	42	820	0.463	ug/l #	89
31) Cyclohexane	7.65	56	7957	Below Cal	#	33
36) 1,1-Dichloropropene	7.65	75	27592	4.581	ug/l #	50
38) Carbon Tetrachloride	7.65	117	32863	5.977	ug/l #	15
43) Isopropyl Acetate	8.16	43	141871	13.558	ug/l #	84
45) 1,2-Dichloropropane	9.26	63	1901	0.360	ug/l #	44
48) Methyl methacrylate	9.17	41	7252	1.366	ug/l #	13
49) 1,4-Dioxane	9.25	88	180	2.005	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	8108	1.309	ug/l	99
54) cis-1,3-Dichloropropene	9.90	75	45764	6.182	ug/l #	70
56) Ethyl methacrylate	10.55	69	2226	0.306	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	7275	0.873	ug/l #	43
59) 2-Hexanone	10.76	43	115301	24.841	ug/l #	53
71) Bromoform	12.40	173	799	0.297	ug/l #	1
74) N-amyl acetate	12.03	43	5090	0.602	ug/l #	48
76) 1,2,3-Trichloropropane	12.40	75	178780	31.542	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	178780	110.996	ug/l #	6
95) Naphthalene	15.13	128	661	Below Cal	#	76

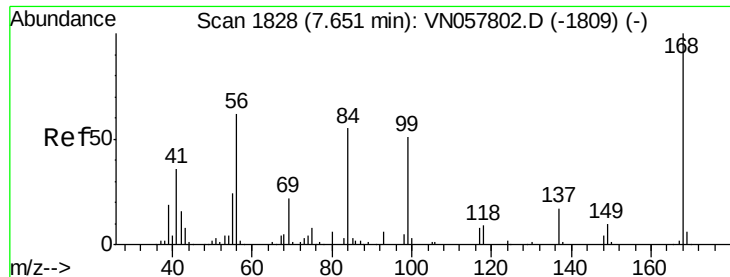
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN058119.D

Acq: 16 Sep 2019 15:23

Instrument :

MSVOA_N

ClientSampleId :

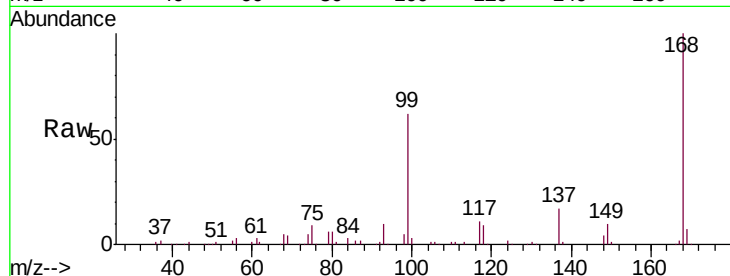
T4-3-(1.5)-HELLGATE

Tgt Ion:168 Resp: 299317

Ion Ratio Lower Upper

168 100

99 62.0 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

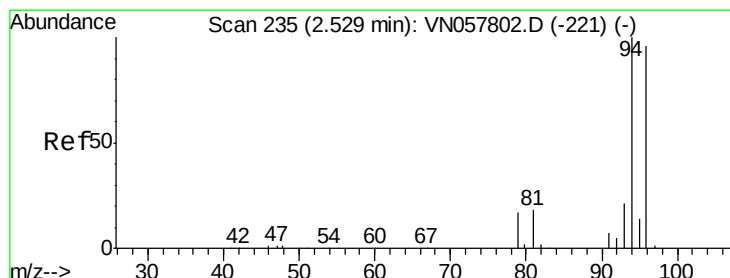
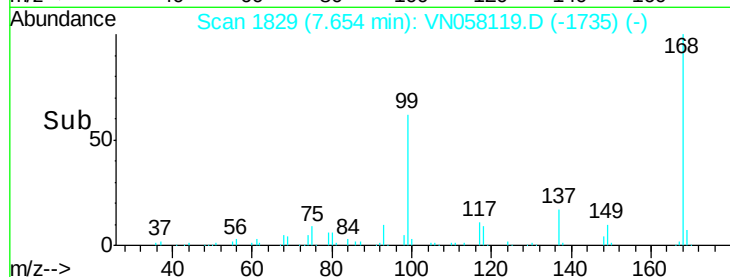
7.65

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 244

Delta R.T. 0.03 min

Lab File: VN058119.D

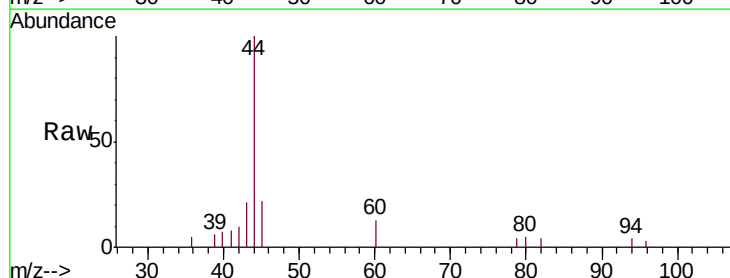
Acq: 16 Sep 2019 15:23

Tgt Ion: 94 Resp: 160

Ion Ratio Lower Upper

94 100

96 92.1 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.56

200

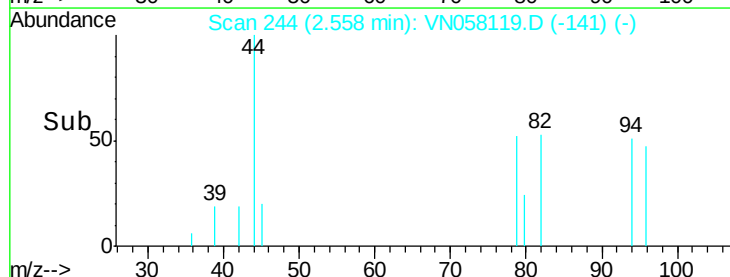
150

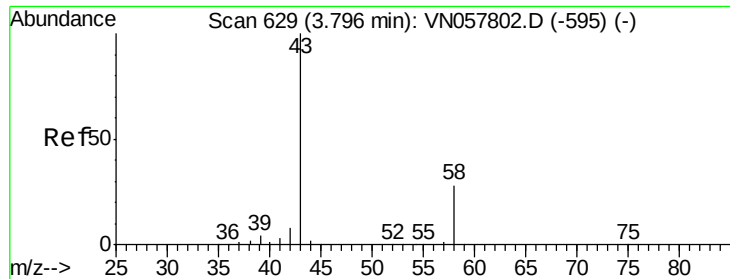
100

50

0

Time-->





#16

Acetone

Concen: 8.052 ug/l

RT: 3.81 min Scan# 632

Delta R.T. 0.01 min

Lab File: VN058119.D

Acq: 16 Sep 2019 15:23

Instrument :

MSVOA_N

ClientSampleId :

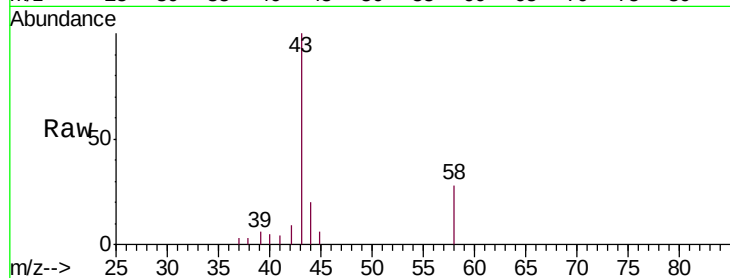
T4-3-(1.5)-HELLGATE

Tgt Ion: 43 Resp: 16002

Ion Ratio Lower Upper

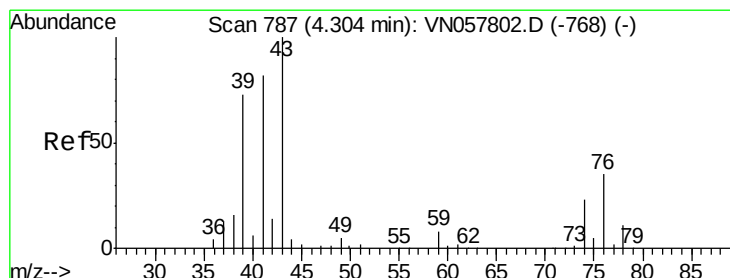
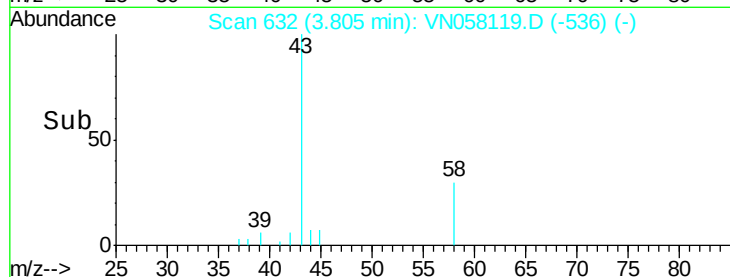
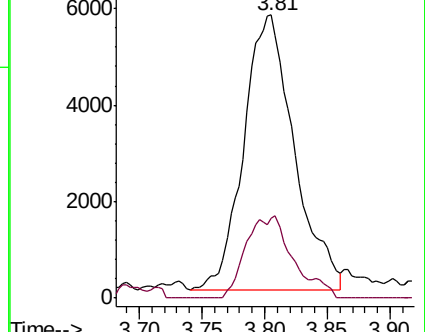
43 100

58 29.2 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN058119.D (-536) (-)

Ion 58.00 (57.70 to 58.70): VN058119.D (-536) (-)



#18

Methyl Acetate

Concen: 1.570 ug/l

RT: 4.31 min Scan# 790

Delta R.T. 0.01 min

Lab File: VN058119.D

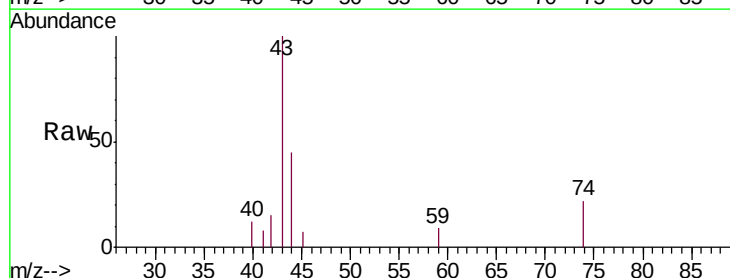
Acq: 16 Sep 2019 15:23

Tgt Ion: 43 Resp: 8319

Ion Ratio Lower Upper

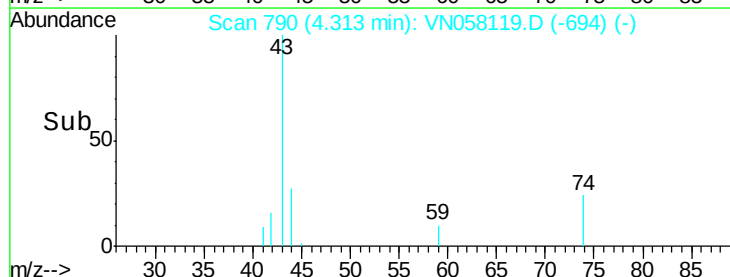
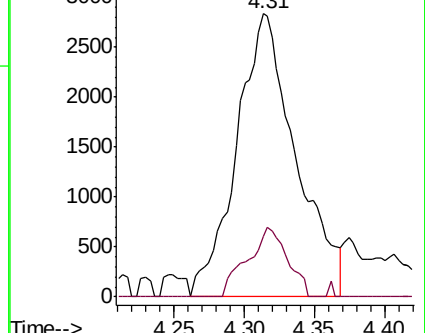
43 100

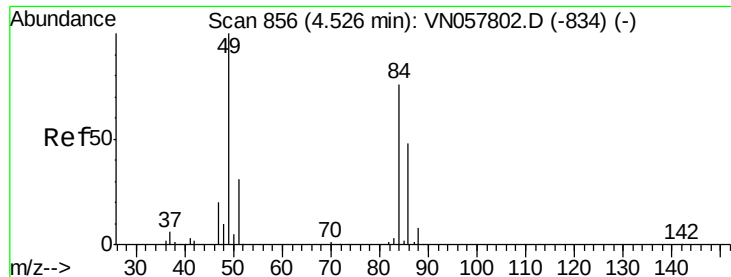
74 16.6 17.9 26.9#



Abundance Ion 43.00 (42.70 to 43.70): VN058119.D (-694) (-)

Ion 74.00 (73.70 to 74.70): VN058119.D (-694) (-)

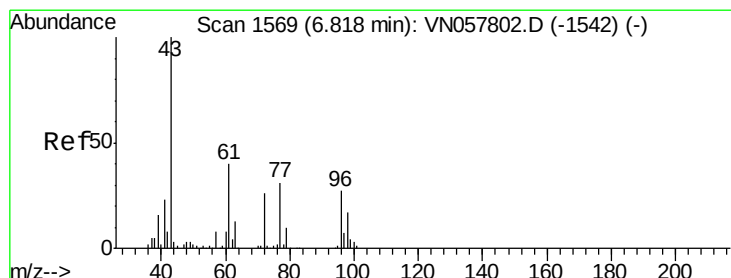
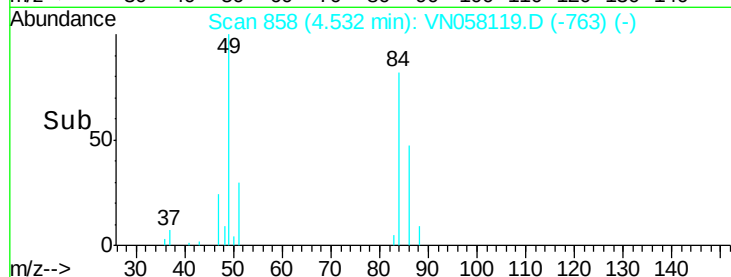
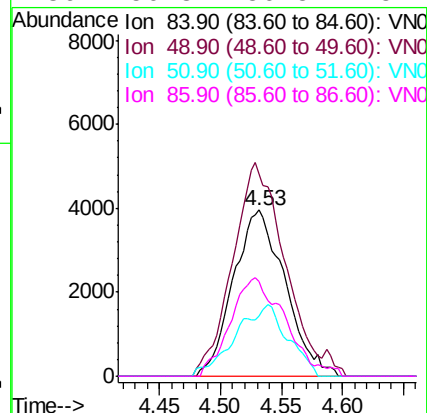
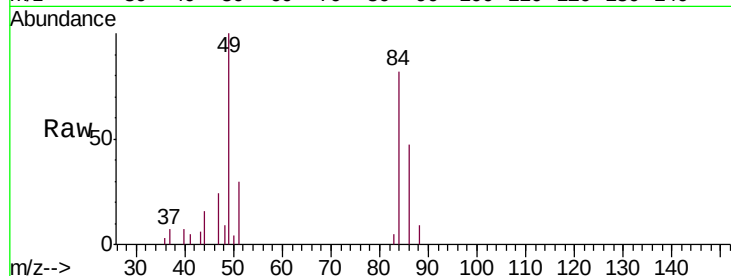




#20
Methylene Chloride
Concen: 1.894 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN058119.D
Acq: 16 Sep 2019 15:23

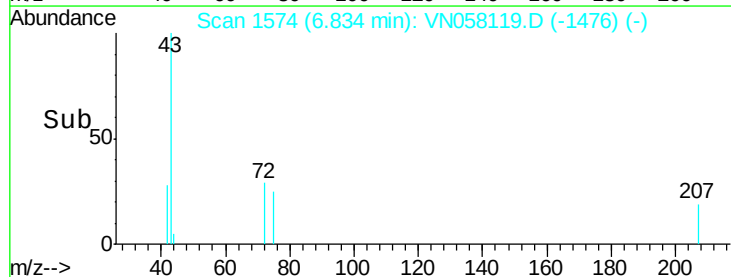
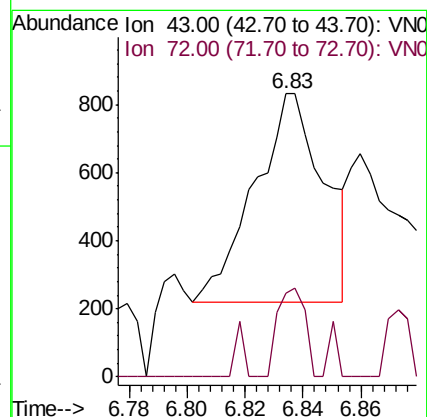
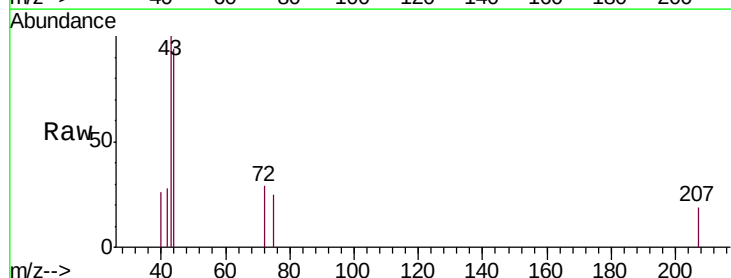
Instrument :
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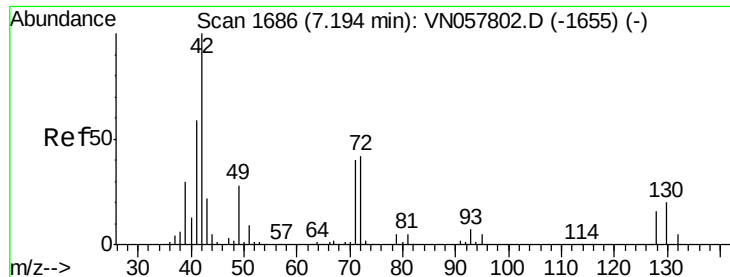
Tgt Ion: 84 Resp: 11646
Ion Ratio Lower Upper
84 100
49 122.2 104.8 157.2
51 36.5 33.0 49.4
86 56.8 50.5 75.7



#25
2-Butanone
Concen: 0.353 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.02 min
Lab File: VN058119.D
Acq: 16 Sep 2019 15:23

Tgt Ion: 43 Resp: 1015
Ion Ratio Lower Upper
43 100
72 40.0 20.6 30.8#





#29

Tetrahydrofuran

Concen: 0.463 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VN058119.D

Acq: 16 Sep 2019 15:23

Instrument :

MSVOA_N

ClientSampleId :

T4-3-(1.5)-HELLGATE

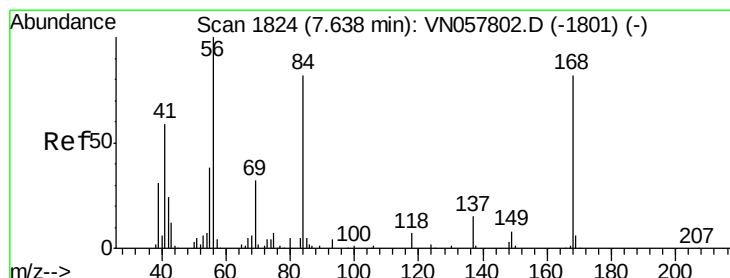
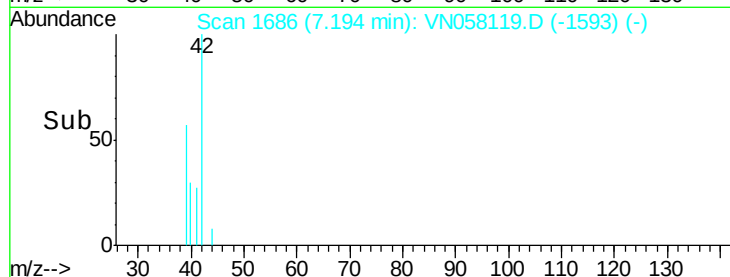
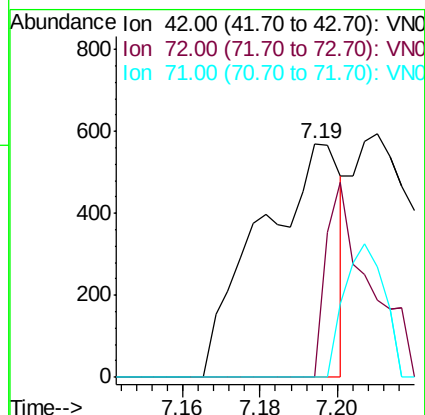
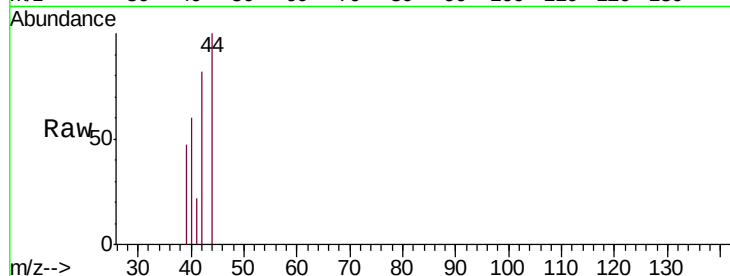
Tgt Ion: 42 Resp: 820

Ion Ratio Lower Upper

42 100

72 44.3 33.7 50.5

71 28.8 31.9 47.9#



#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN058119.D

Acq: 16 Sep 2019 15:23

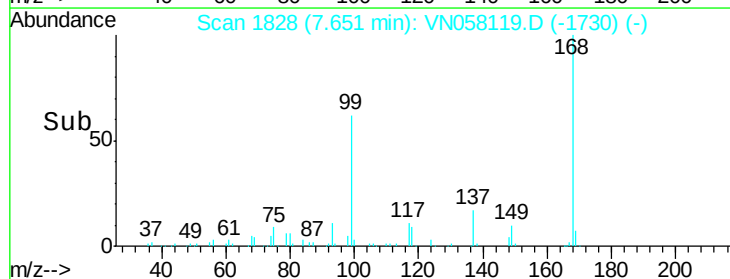
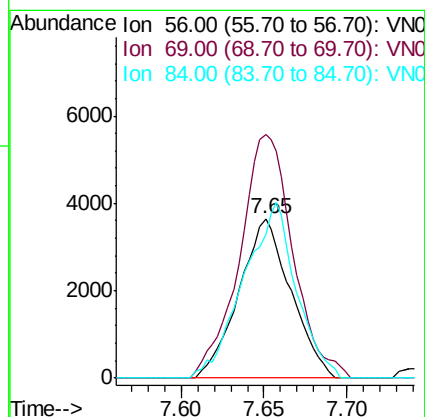
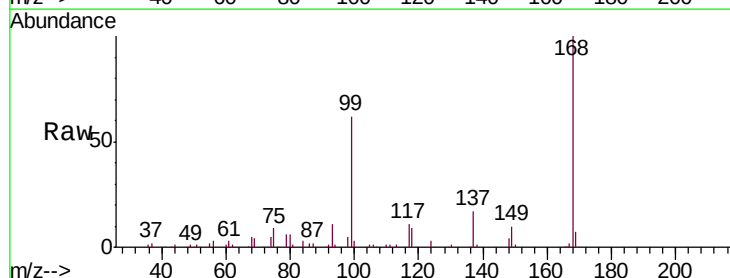
Tgt Ion: 56 Resp: 7957

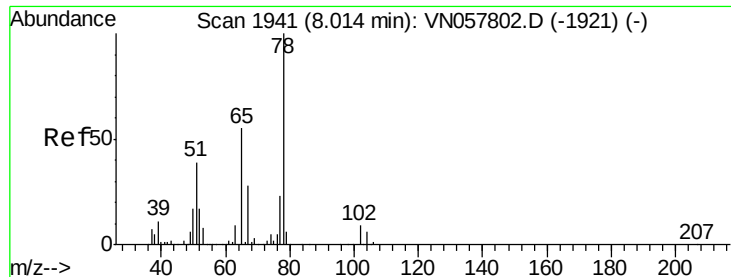
Ion Ratio Lower Upper

56 100

69 152.9 25.9 38.9#

84 89.9 65.6 98.4

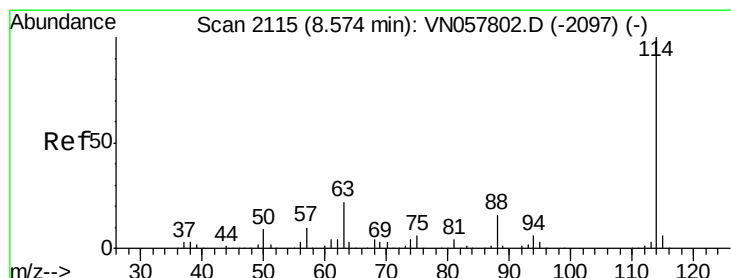
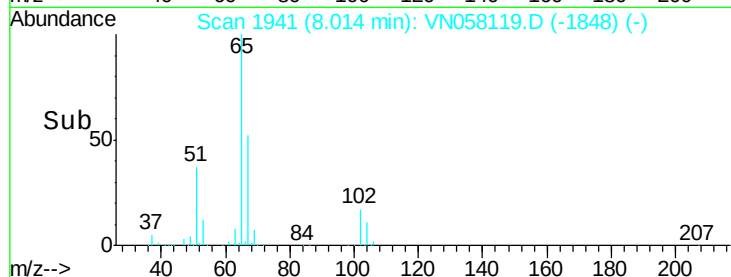
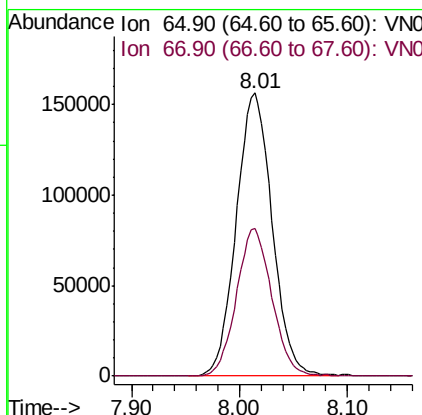
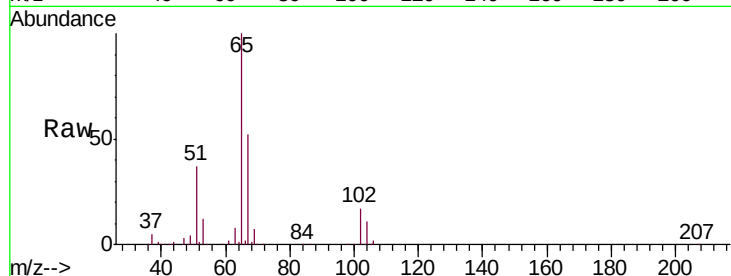




#33
 1,2-Dichloroethane-d4
 Concen: 59.856 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN058119.D
 Acq: 16 Sep 2019 15:23

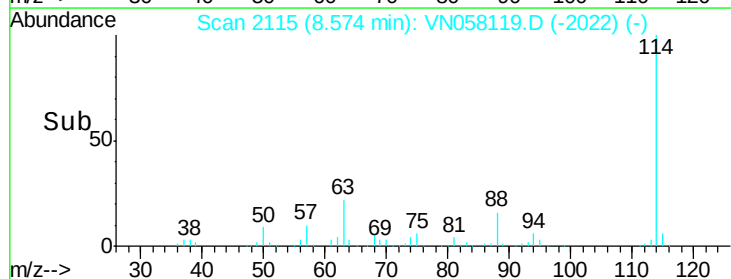
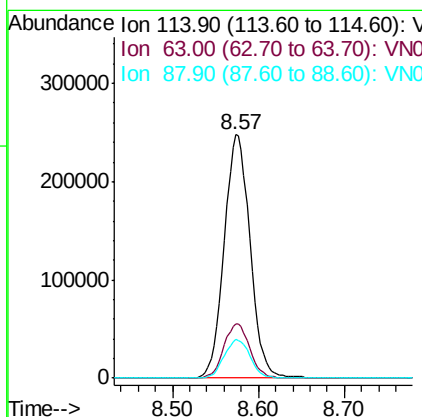
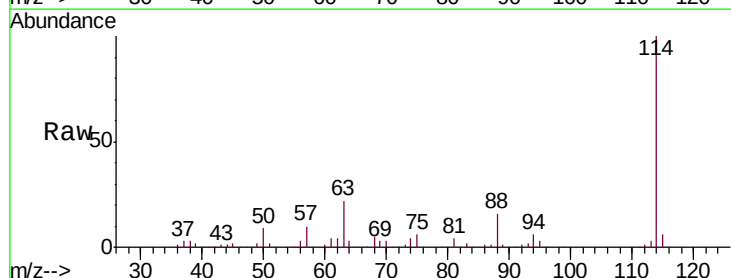
Instrument :
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 T4-3-(1.5)-HELLGATE

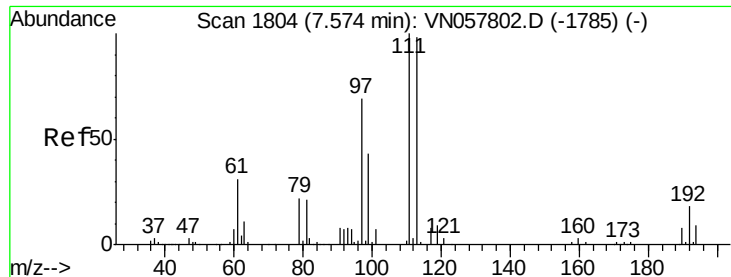
Tgt Ion: 65 Resp: 362872
 Ion Ratio Lower Upper
 65 100
 67 51.2 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058119.D
 Acq: 16 Sep 2019 15:23

Tgt Ion: 114 Resp: 519314
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 44.0
 88 15.9 0.0 31.4

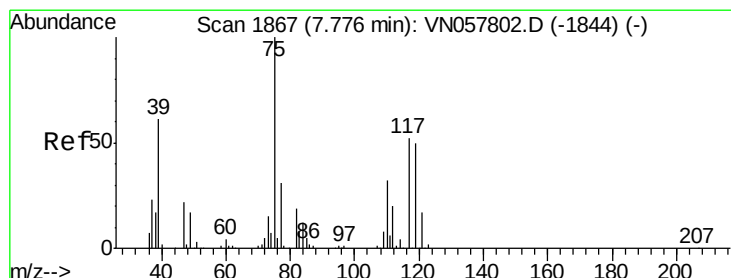
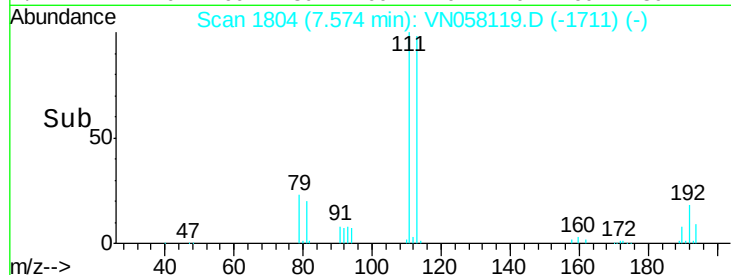
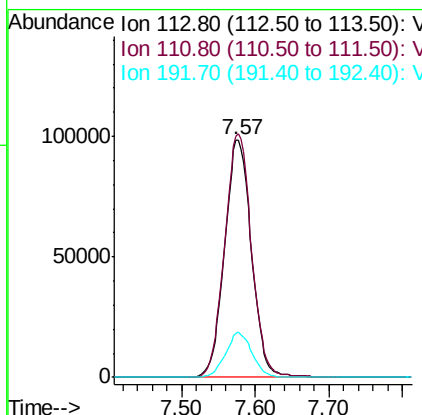
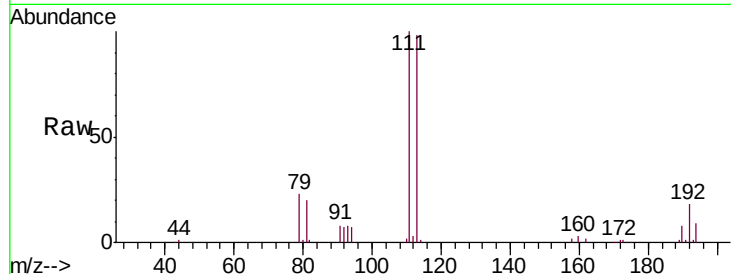




#35
 Dibromofluoromethane
 Concen: 52.022 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058119.D
 Acq: 16 Sep 2019 15:23

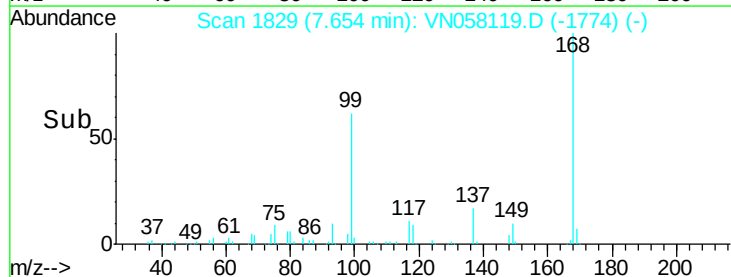
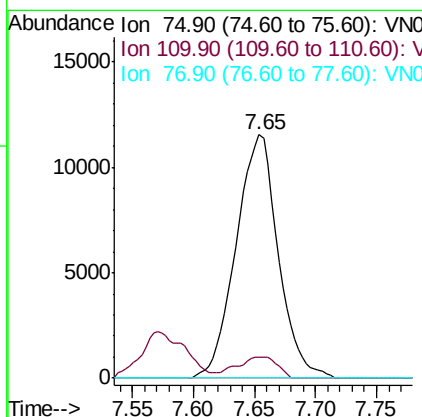
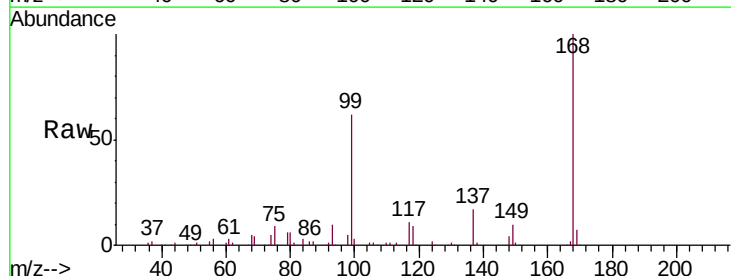
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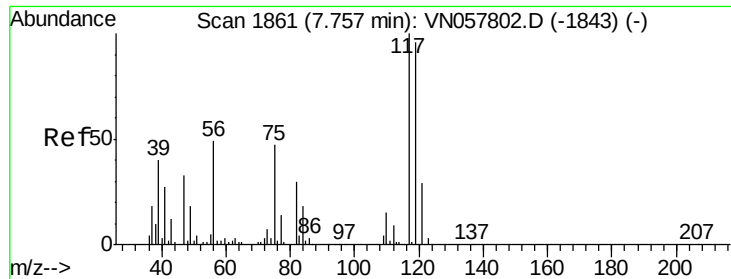
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.3	121.9
192	18.4	14.6	22.0



#36
 1,1-Dichloropropene
 Concen: 4.581 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN058119.D
 Acq: 16 Sep 2019 15:23

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	16.3	48.9#
77	0.0	25.0	37.4#

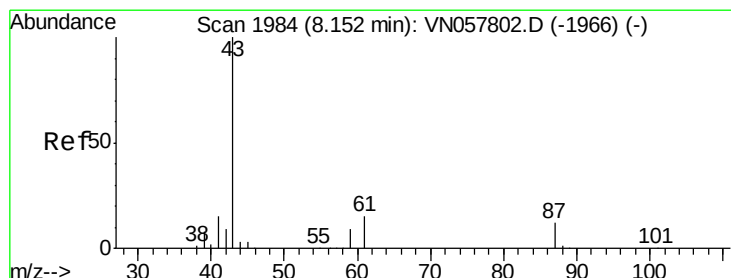
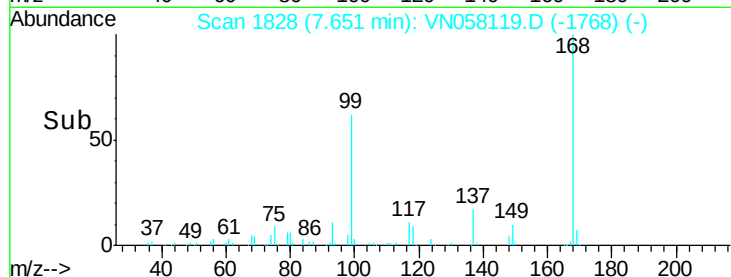
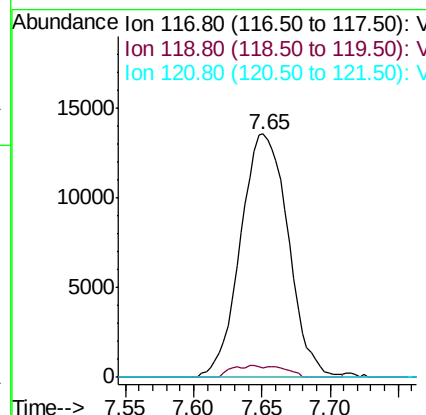
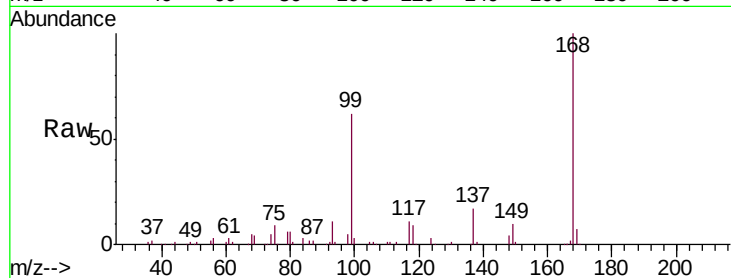




#38
Carbon Tetrachloride
Concen: 5.977 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.11 min
Lab File: VN058119.D
Acq: 16 Sep 2019 15:23

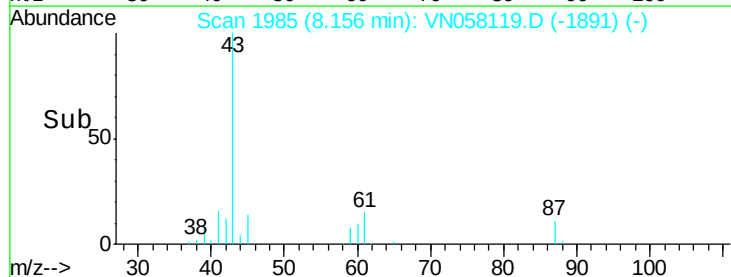
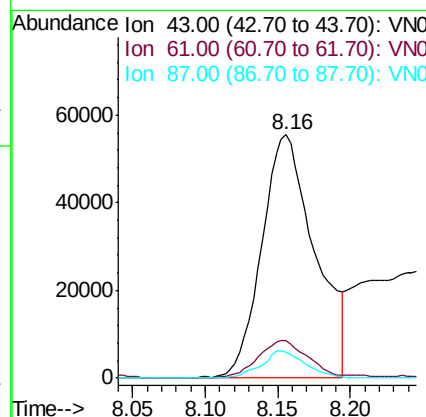
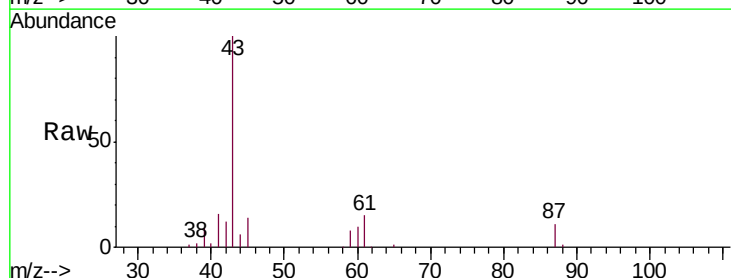
Instrument :
MSVOA_N
ClientSampleId :
T4-3-(1.5)-HELLGATE

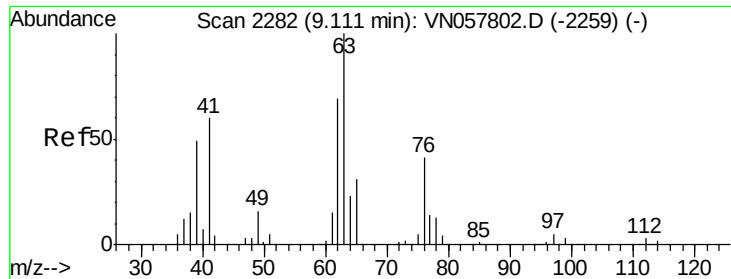
Tgt Ion:117 Resp: 32863
Ion Ratio Lower Upper
117 100
119 3.8 76.9 115.3#
121 0.0 23.4 35.2#



#43
Isopropyl Acetate
Concen: 13.558 ug/l
RT: 8.16 min Scan# 1985
Delta R.T. 0.00 min
Lab File: VN058119.D
Acq: 16 Sep 2019 15:23

Tgt Ion: 43 Resp: 141871
Ion Ratio Lower Upper
43 100
61 14.6 20.1 30.1#
87 9.2 9.5 14.3#

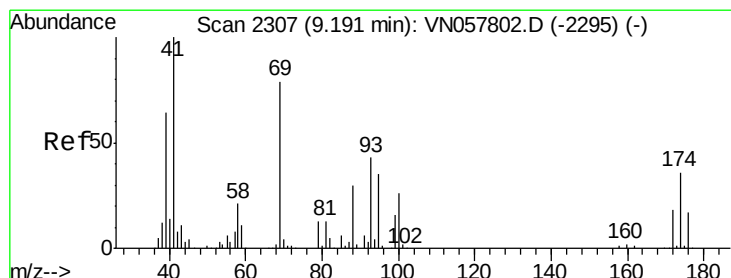
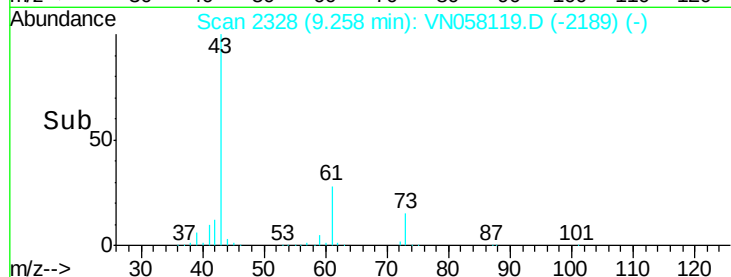
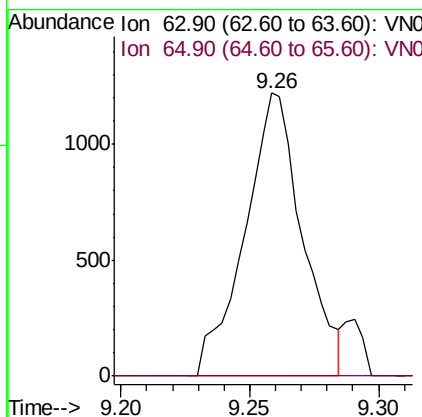
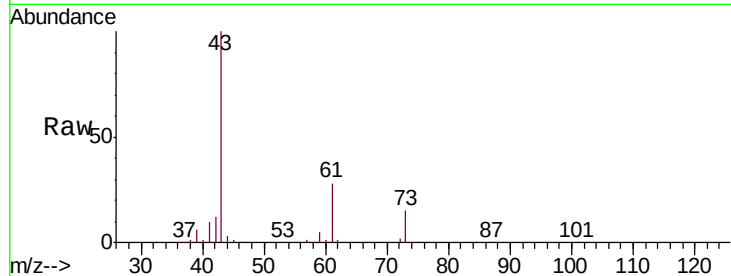




#45
 1,2-Dichloropropane
 Concen: 0.360 ug/l
 RT: 9.26 min Scan# 2328
 Delta R.T. 0.15 min
 Lab File: VN058119.D
 Acq: 16 Sep 2019 15:23

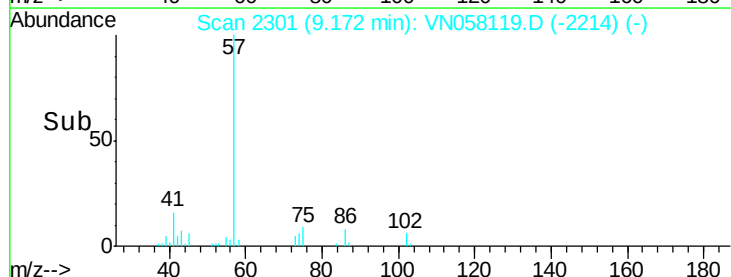
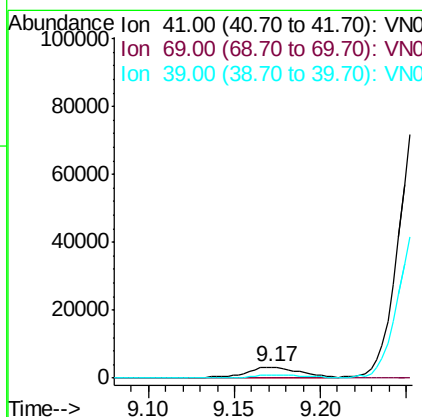
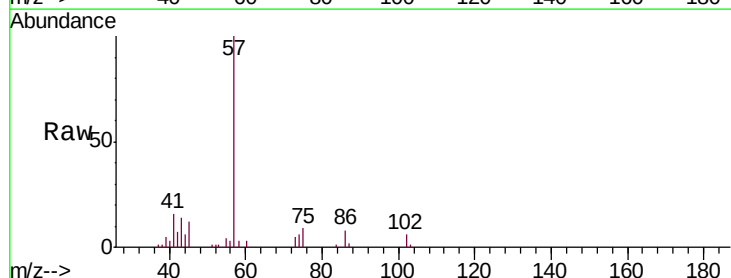
Instrument :
 MSVOA_N
 ClientSampleId :
 T4-3-(1.5)-HELLGATE

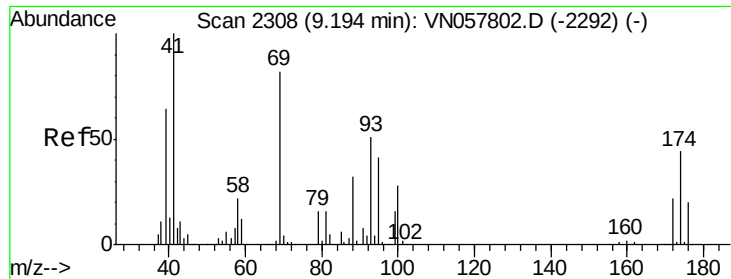
Tgt Ion: 63 Resp: 1901
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.8 37.2#



#48
 Methyl methacrylate
 Concen: 1.366 ug/l
 RT: 9.17 min Scan# 2301
 Delta R.T. -0.02 min
 Lab File: VN058119.D
 Acq: 16 Sep 2019 15:23

Tgt Ion: 41 Resp: 7252
 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: 2.005 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.06 min

Lab File: VN058119.D

Acq: 16 Sep 2019 15:23

Instrument :

MSVOA_N

ClientSampleId :

T4-3-(1.5)-HELLGATE

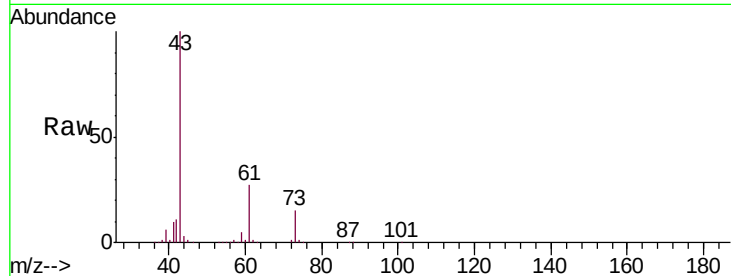
Tgt Ion: 88 Resp: 180

Ion Ratio Lower Upper

88 100

43 959423.3 28.5 42.7#

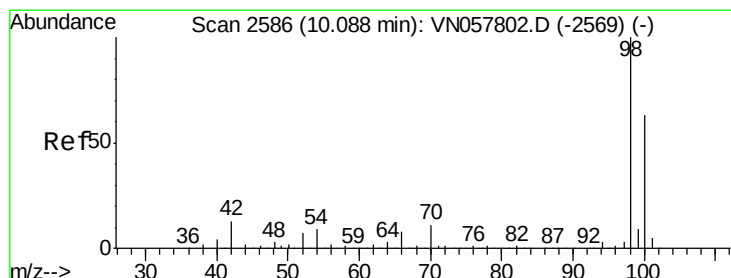
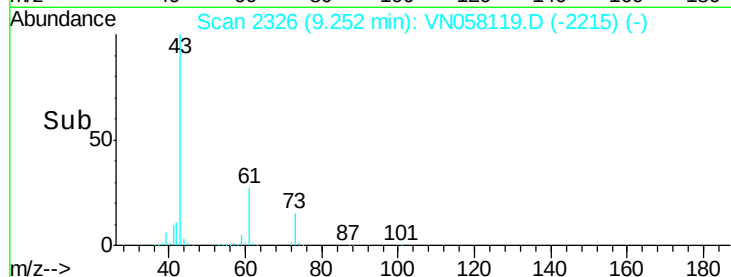
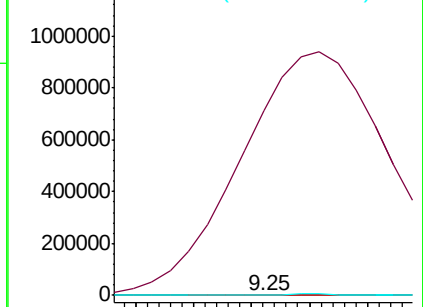
58 4426.7 55.8 83.6#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 52.584 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058119.D

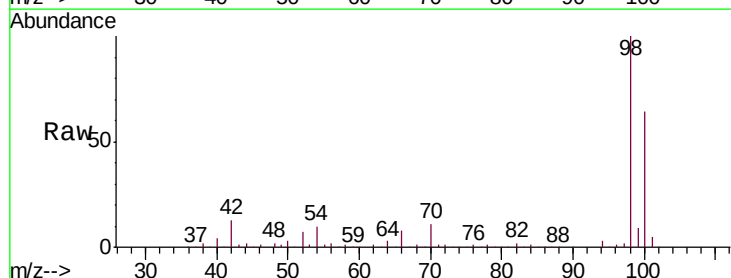
Acq: 16 Sep 2019 15:23

Tgt Ion: 98 Resp: 978550

Ion Ratio Lower Upper

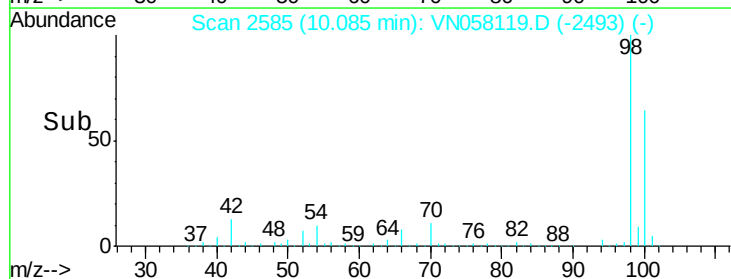
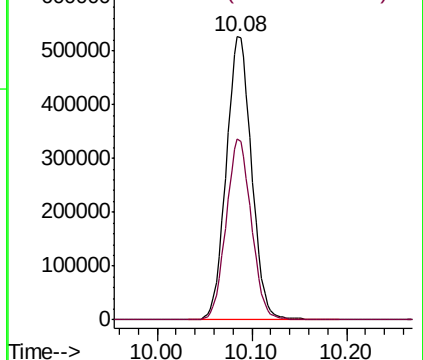
98 100

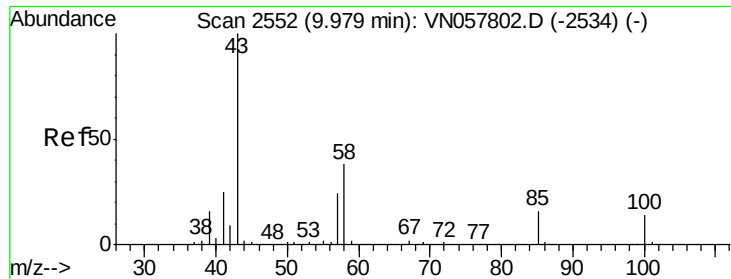
100 63.7 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

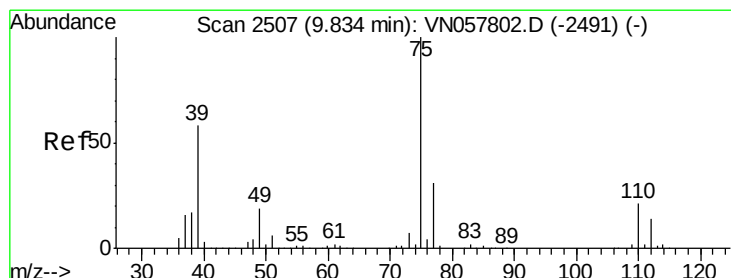
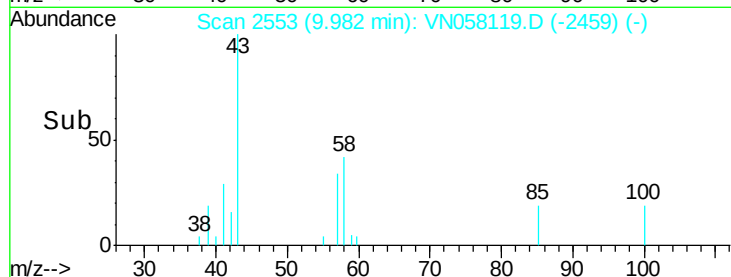
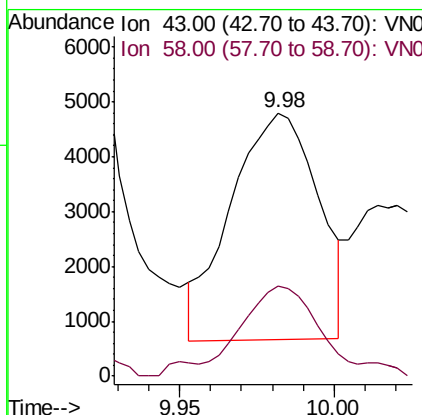
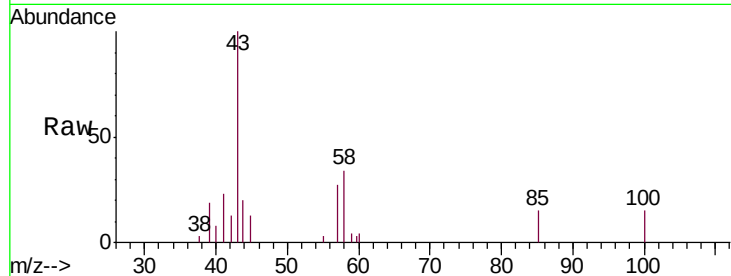




#51
 4-Methyl-2-Pentanone
 Concen: 1.309 ug/l
 RT: 9.98 min Scan# 2553
 Delta R.T. 0.00 min
 Lab File: VN058119.D
 Acq: 16 Sep 2019 15:23

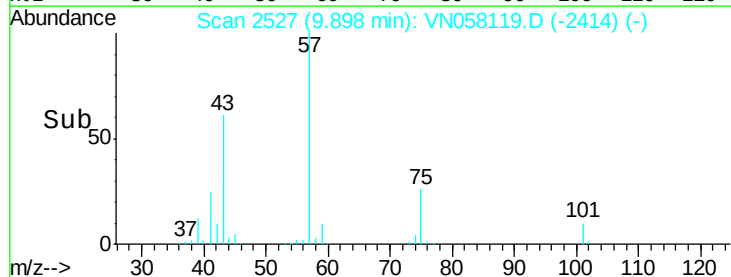
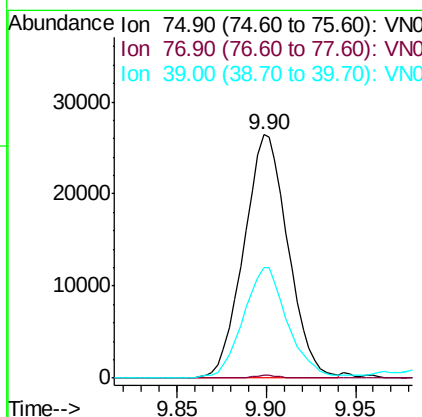
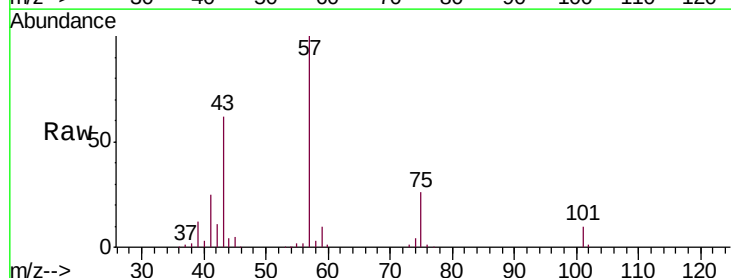
Instrument :
 MSVOA_N
 ClientSampleId :
 T4-3-(1.5)-HELLGATE

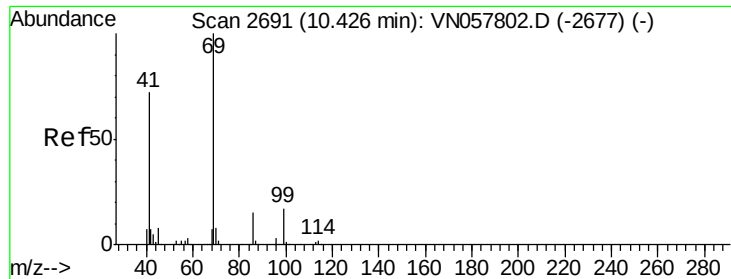
Tgt Ion: 43 Resp: 8108
 Ion Ratio Lower Upper
 43 100
 58 36.4 29.8 44.6



#54
 cis-1,3-Dichloropropene
 Concen: 6.182 ug/l
 RT: 9.90 min Scan# 2527
 Delta R.T. 0.06 min
 Lab File: VN058119.D
 Acq: 16 Sep 2019 15:23

Tgt Ion: 75 Resp: 45764
 Ion Ratio Lower Upper
 75 100
 77 1.1 24.8 37.2#
 39 45.4 46.2 69.4#





#56

Ethyl methacrylate

Concen: 0.306 ug/l

RT: 10.55 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN058119.D

Acq: 16 Sep 2019 15:23

Instrument :

MSVOA_N

ClientSampleId :

T4-3-(1.5)-HELLGATE

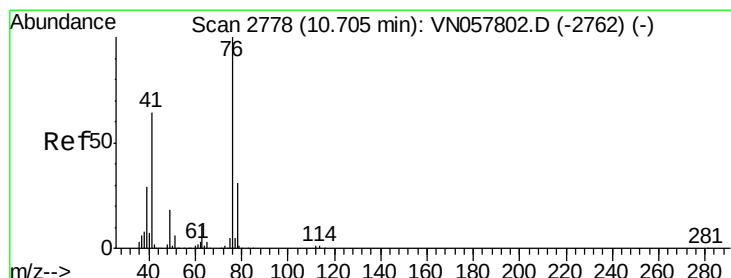
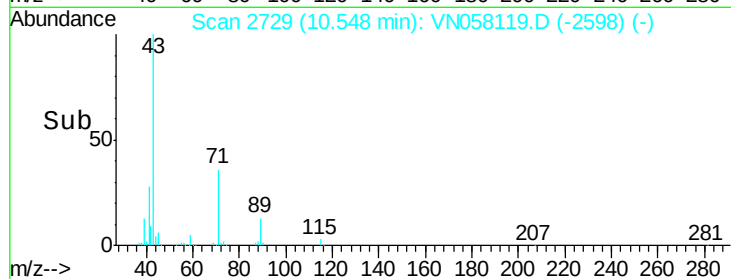
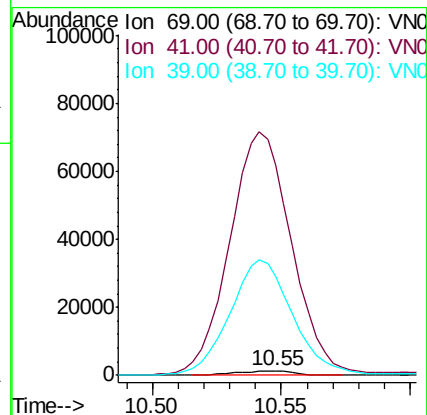
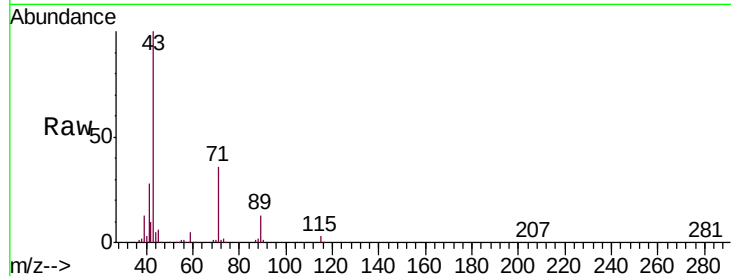
Tgt Ion: 69 Resp: 2226

Ion Ratio Lower Upper

69 100

41 5439.2 56.7 85.1#

39 2612.4 36.3 54.5#



#57

1,3-Dichloropropane

Concen: 0.873 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.05 min

Lab File: VN058119.D

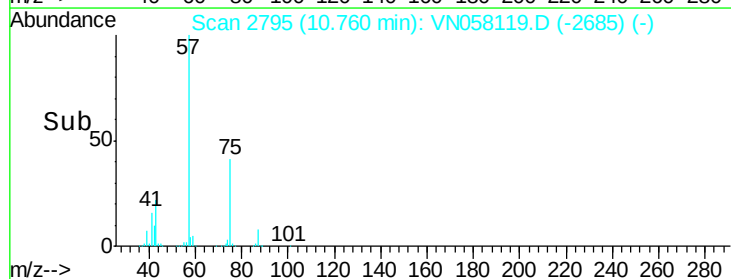
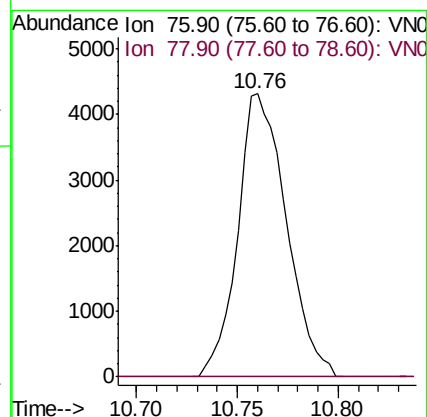
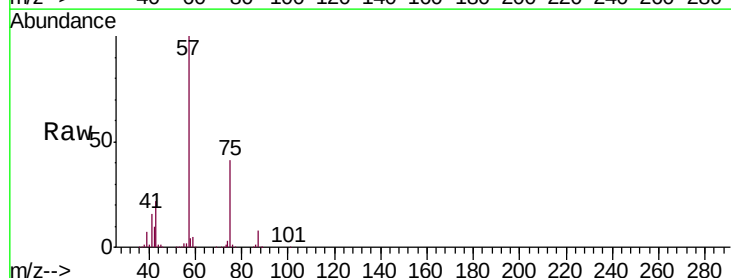
Acq: 16 Sep 2019 15:23

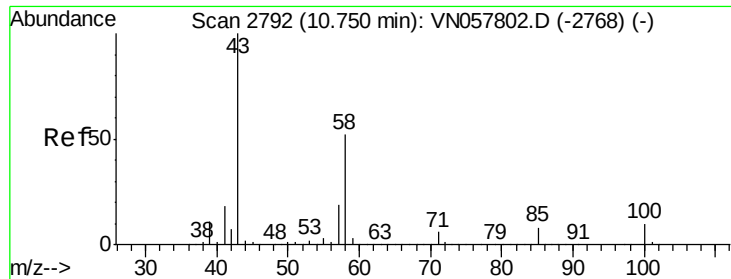
Tgt Ion: 76 Resp: 7275

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#

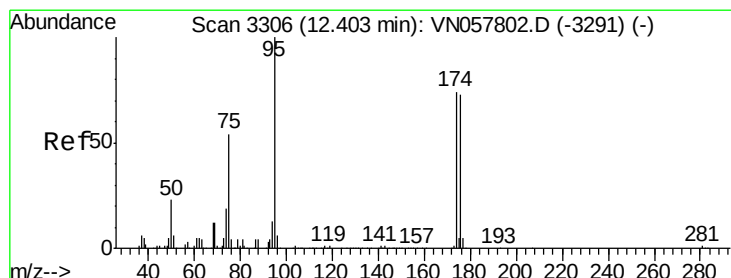
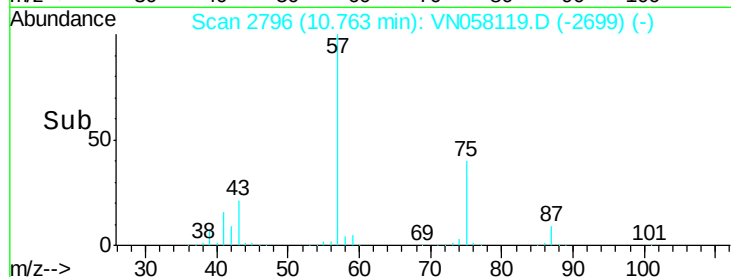
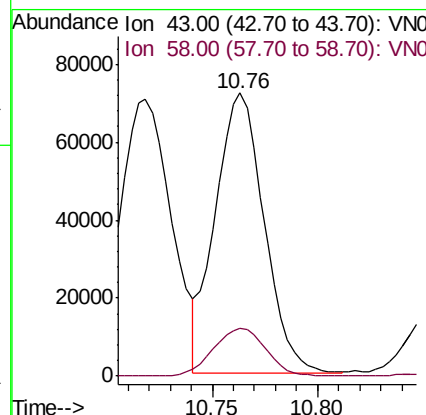
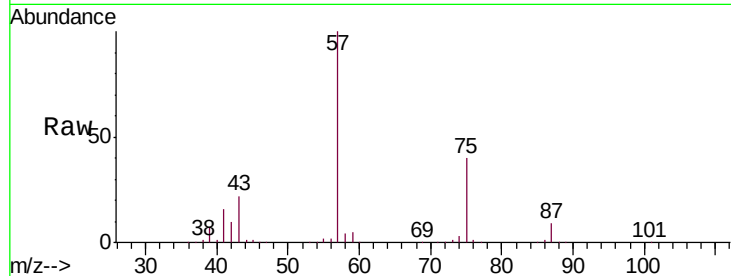




#59
 2-Hexanone
 Concen: 24.841 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN058119.D
 Acq: 16 Sep 2019 15:23

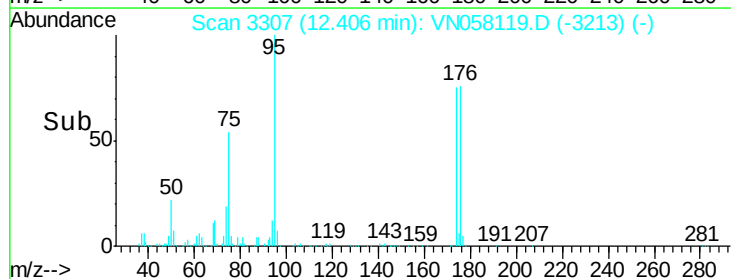
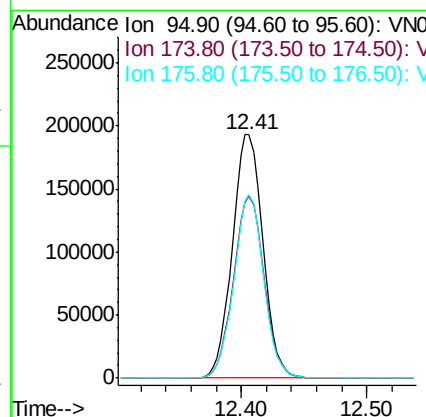
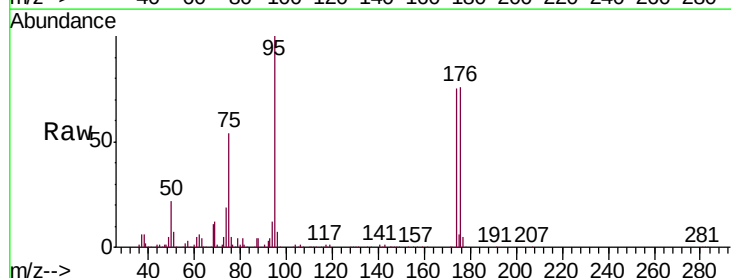
Instrument :
 MSVOA_N
 ClientSampleId :
 T4-3-(1.5)-HELLGATE

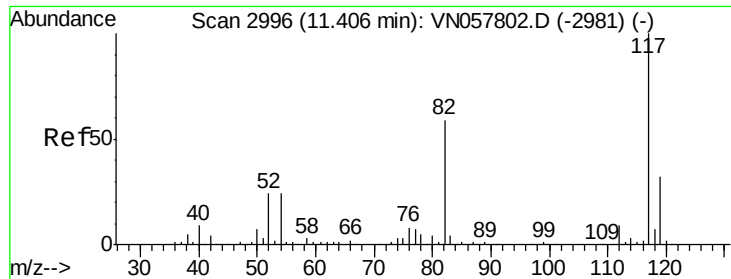
Tgt Ion: 43 Resp: 115301
 Ion Ratio Lower Upper
 43 100
 58 18.6 25.6 76.8#



#62
 4-Bromofluorobenzene
 Concen: 45.994 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. 0.00 min
 Lab File: VN058119.D
 Acq: 16 Sep 2019 15:23

Tgt Ion: 95 Resp: 326178
 Ion Ratio Lower Upper
 95 100
 174 75.0 0.0 150.2
 176 73.5 0.0 146.0

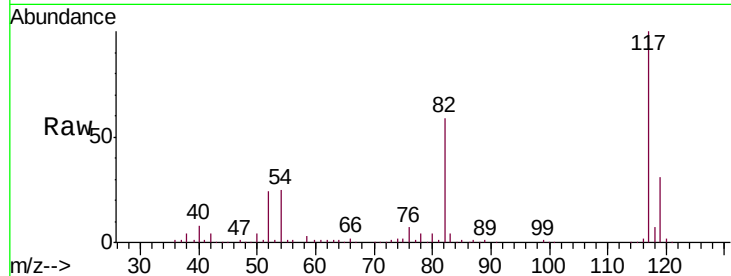




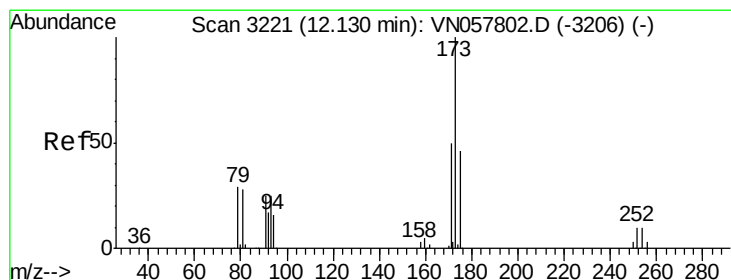
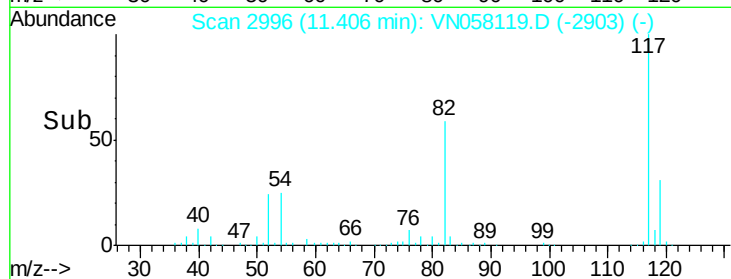
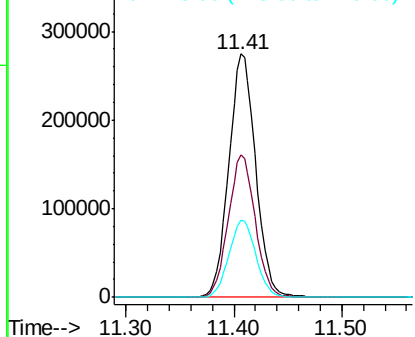
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058119.D
Acq: 16 Sep 2019 15:23

Instrument :
MSVOA_N
ClientSampleId :
T4-3-(1.5)-HELLGATE

Tgt Ion:117 Resp: 475662
Ion Ratio Lower Upper
117 100
82 58.8 47.2 70.8
119 31.5 25.3 37.9

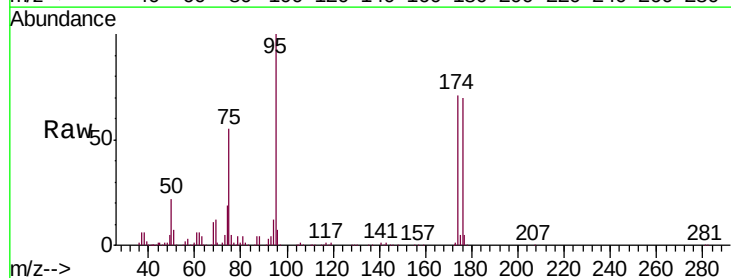


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

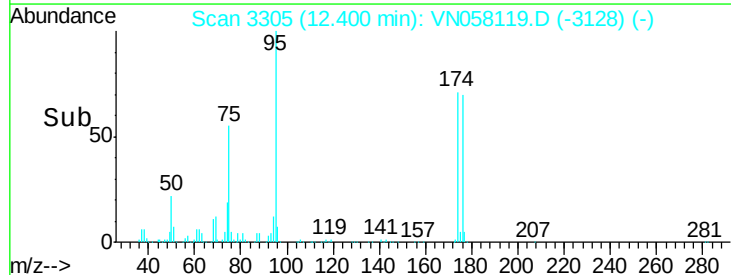
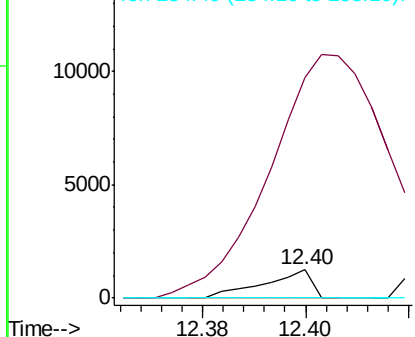


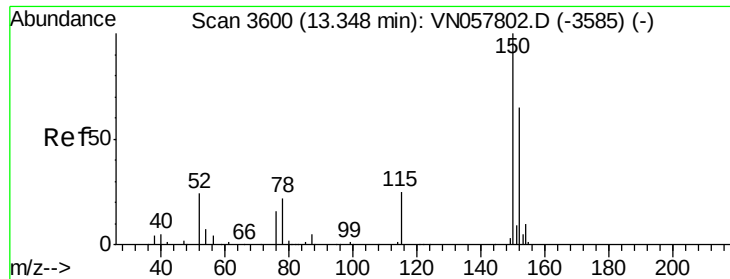
#71
Bromoform
Concen: 0.297 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN058119.D
Acq: 16 Sep 2019 15:23

Tgt Ion:173 Resp: 799
Ion Ratio Lower Upper
173 100
175 1926.9 23.5 70.6#
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058119.D

Acq: 16 Sep 2019 15:23

Instrument :

MSVOA_N

ClientSampleId :

T4-3-(1.5)-HELLGATE

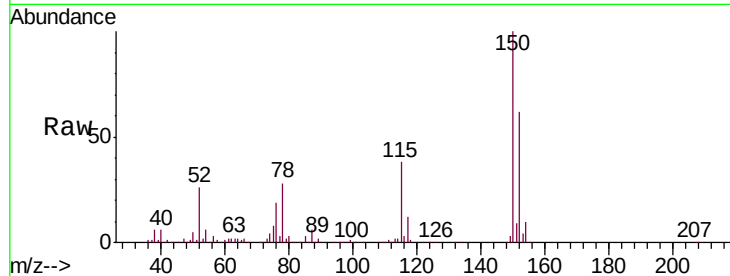
Tgt Ion:152 Resp: 250557

Ion Ratio Lower Upper

152 100

115 61.0 30.3 91.0

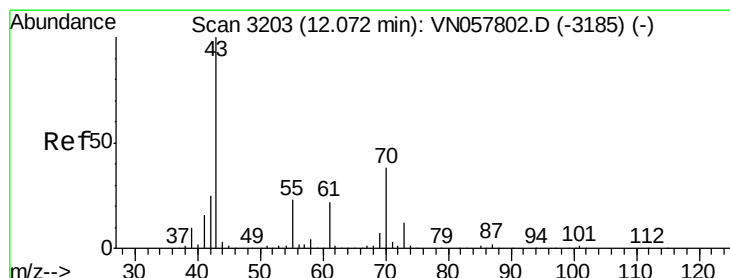
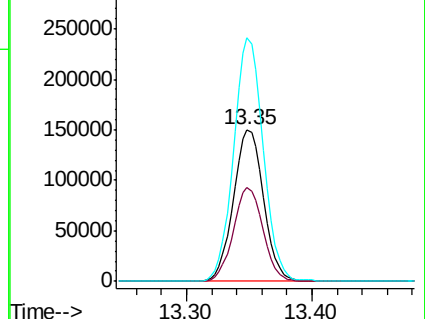
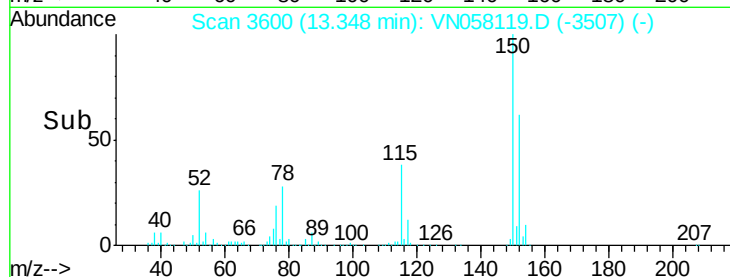
150 157.7 0.0 352.4



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: 0.602 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN058119.D

Acq: 16 Sep 2019 15:23

Tgt Ion: 43 Resp: 5090

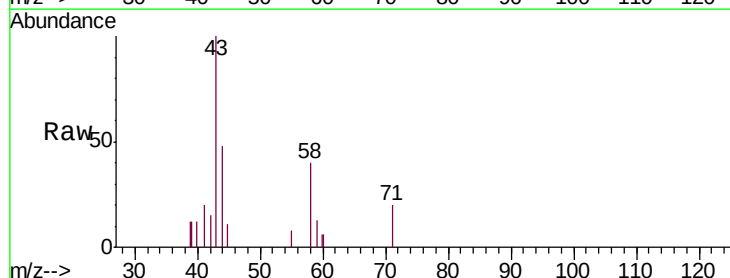
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 4.8 18.6 27.8#

61 0.0 17.4 26.2#

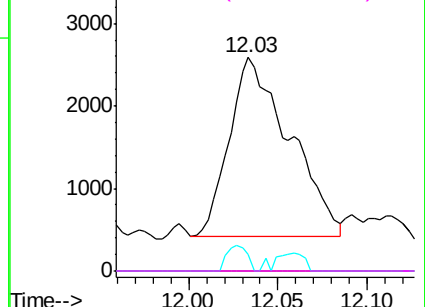
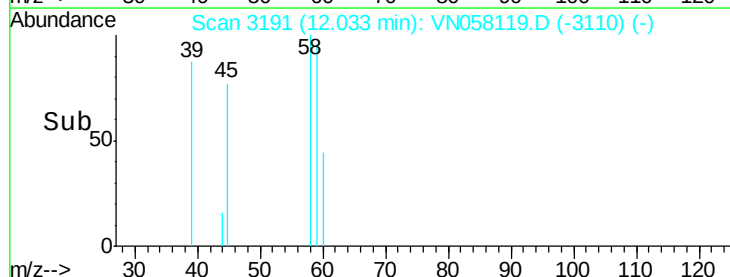


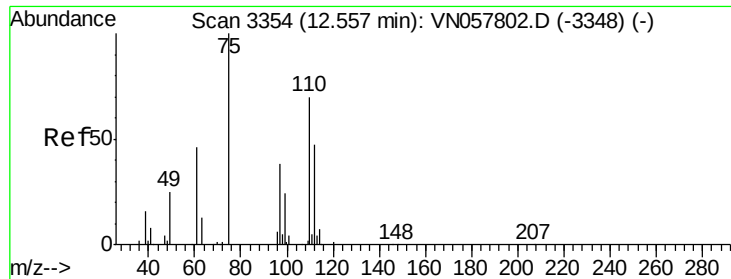
Abundance Ion 43.00 (42.70 to 43.70): V

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: 31.542 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058119.D

Acq: 16 Sep 2019 15:23

Instrument :

MSVOA_N

ClientSampleId :

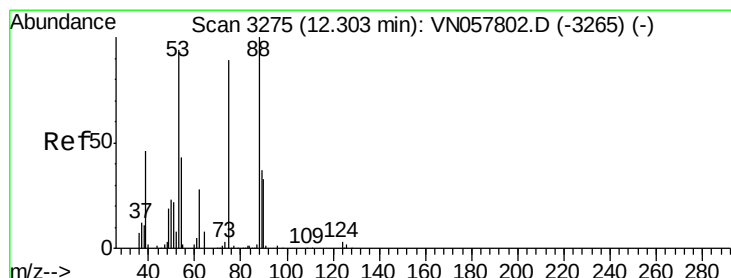
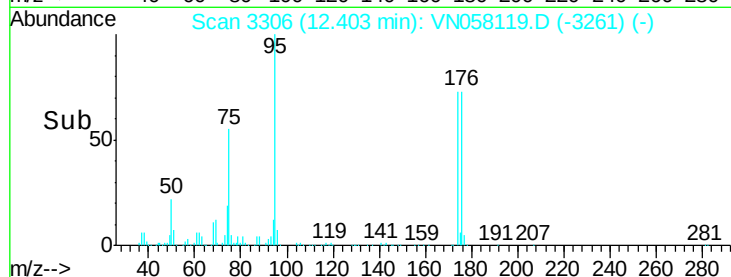
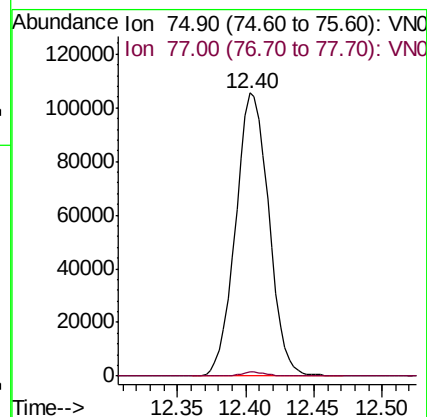
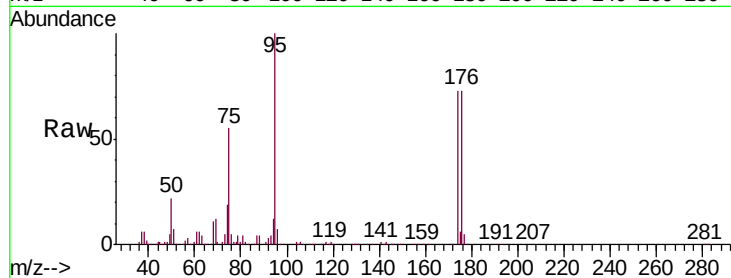
T4-3-(1.5)-HELLGATE

Tgt Ion: 75 Resp: 178780

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 110.996 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058119.D

Acq: 16 Sep 2019 15:23

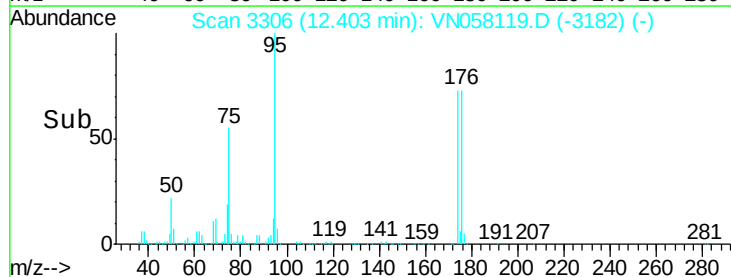
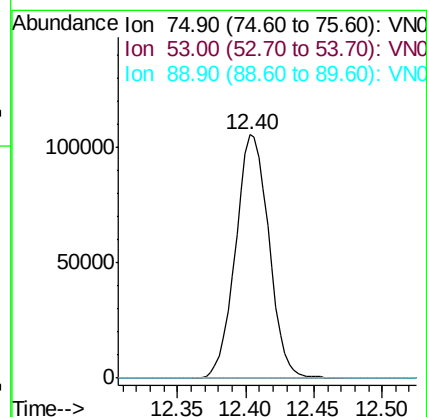
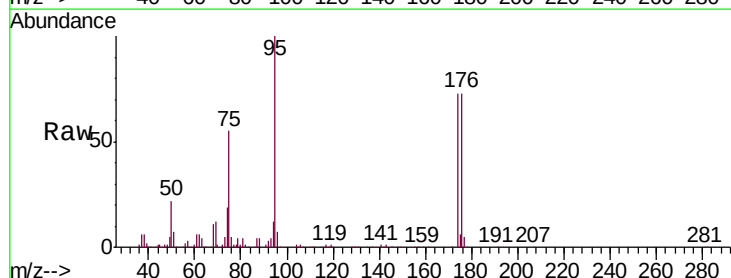
Tgt Ion: 75 Resp: 178780

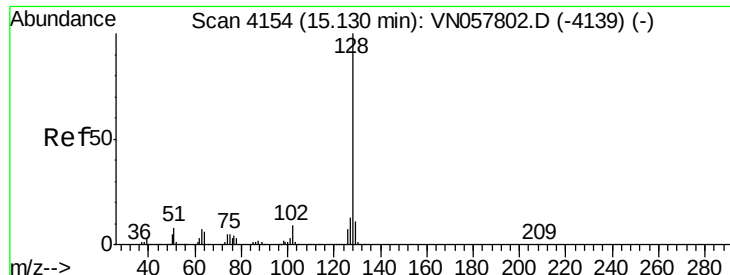
Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

89 0.0 35.3 52.9#





#95
Naphthalene
Concen: Below Cal
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN058119.D
Acq: 16 Sep 2019 15:23

Instrument :
MSVOA_N
ClientSampleId :
T4-3-(1.5)-HELLGATE

Tgt Ion:128 Resp: 661
Ion Ratio Lower Upper
128 100
127 4.5 10.3 15.5#
129 0.0 8.6 12.8#

