

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091619\
 Data File : VN058116.D
 Acq On : 16 Sep 2019 14:16
 Operator : JC/SP
 Sample : K4719-27
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T4-2(0)-HELLGATE

Quant Time: Sep 17 03:51:09 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	306239	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	515754	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	477113	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	250735	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	361481	58.28	ug/l	0.00
Spiked Amount						
			Recovery	=	116.56%	
35) Dibromofluoromethane	7.58	113	247562	52.01	ug/l	0.00
Spiked Amount						
			Recovery	=	104.02%	
50) Toluene-d8	10.09	98	986900	53.40	ug/l	0.00
Spiked Amount						
			Recovery	=	106.80%	
62) 4-Bromofluorobenzene	12.41	95	334684	47.52	ug/l	0.00
Spiked Amount						
			Recovery	=	95.04%	

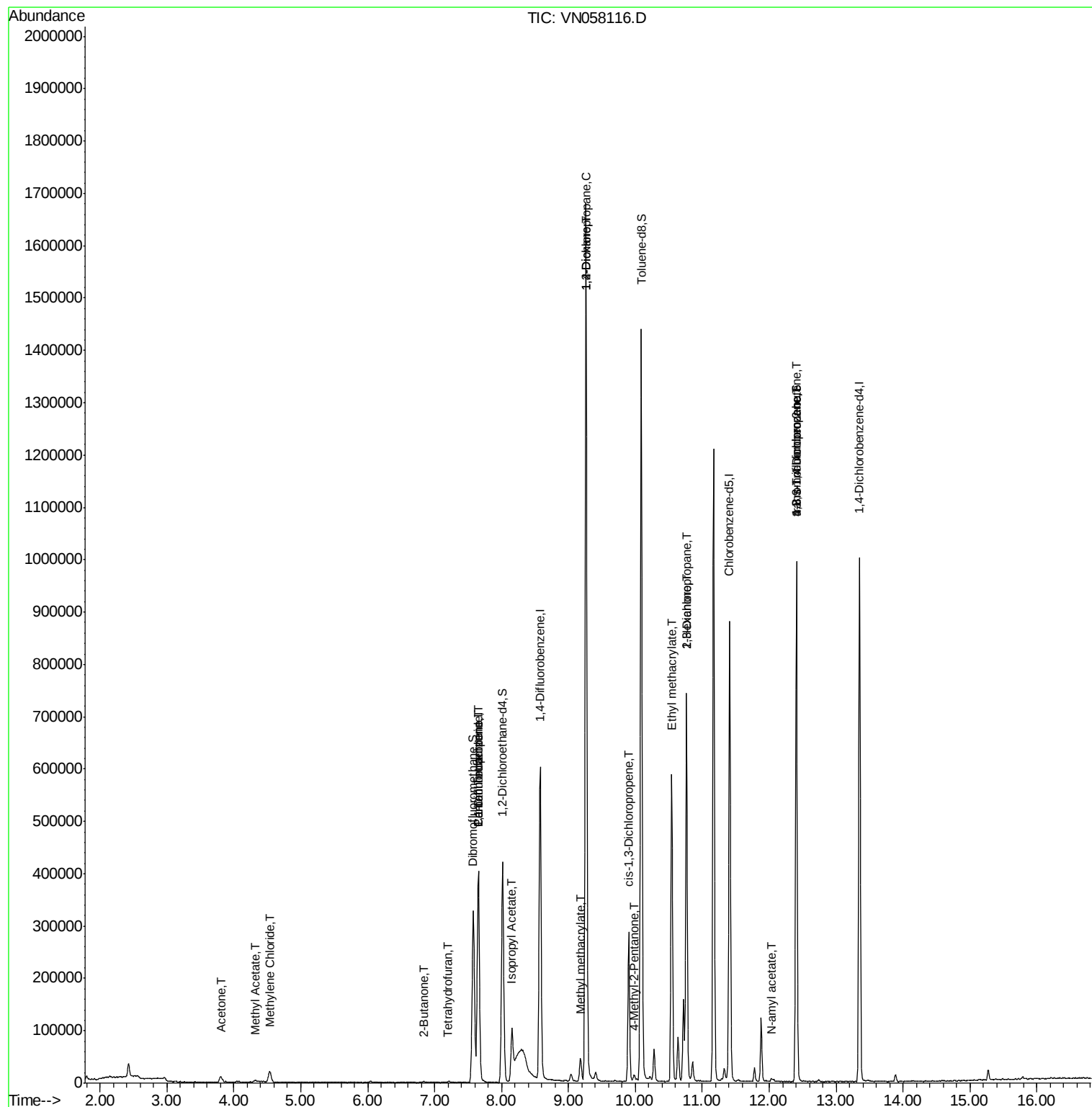
Target Compounds					Qvalue
5) Bromomethane	2.55	94	221	Below Cal	# 66
16) Acetone	3.80	43	18563	9.129	ug/l 96
18) Methyl Acetate	4.32	43	5569	1.027	ug/l # 87
20) Methylene Chloride	4.54	84	15005	2.712	ug/l 93
25) 2-Butanone	6.84	43	2803	0.952	ug/l 98
29) Tetrahydrofuran	7.20	42	1049	0.578	ug/l # 68
31) Cyclohexane	7.65	56	7696	Below Cal	# 1
36) 1,1-Dichloropropene	7.65	75	26194	4.379	ug/l # 46
38) Carbon Tetrachloride	7.65	117	32291	5.913	ug/l # 16
43) Isopropyl Acetate	8.15	43	131587	12.662	ug/l # 86
45) 1,2-Dichloropropane	9.26	63	1986	0.379	ug/l # 44
48) Methyl methacrylate	9.18	41	6990	1.326	ug/l # 13
49) 1,4-Dioxane	9.27	88	58	0.651	ug/l # 1
51) 4-Methyl-2-Pentanone	9.98	43	7094	1.153	ug/l # 86
54) cis-1,3-Dichloropropene	9.90	75	49257	6.700	ug/l # 66
56) Ethyl methacrylate	10.54	69	2413	0.334	ug/l # 1
57) 1,3-Dichloropropane	10.77	76	7252	0.876	ug/l # 43
59) 2-Hexanone	10.76	43	116831	25.345	ug/l # 53
74) N-amyl acetate	12.03	43	3800	0.449	ug/l # 52
76) 1,2,3-Trichloropropane	12.40	75	182456	32.168	ug/l # 100
81) trans-1,4-Dichloro-2-buten	12.40	75	182456	113.198	ug/l # 6
95) Naphthalene	15.14	128	1220	Below Cal	# 73

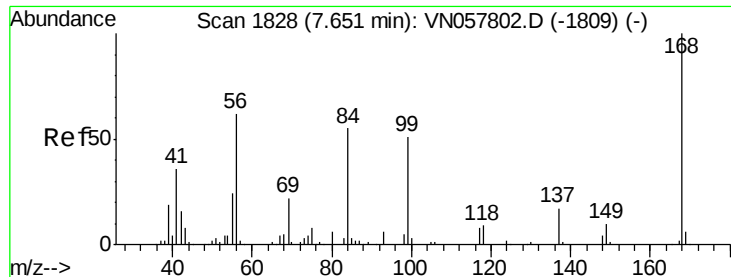
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN058116.D

Acq: 16 Sep 2019 14:16

Instrument :

MSVOA_N

ClientSampleId :

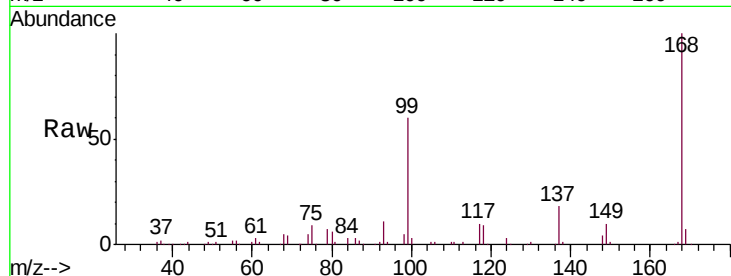
T4-2(0)-HELLGATE

Tgt Ion: 168 Resp: 306239

Ion Ratio Lower Upper

168 100

99 60.2 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

150000 Ion 98.90 (98.60 to 99.60): VN

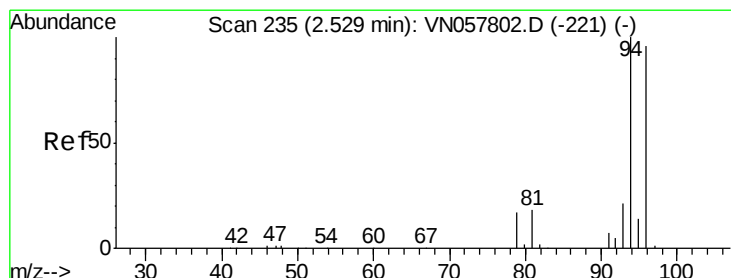
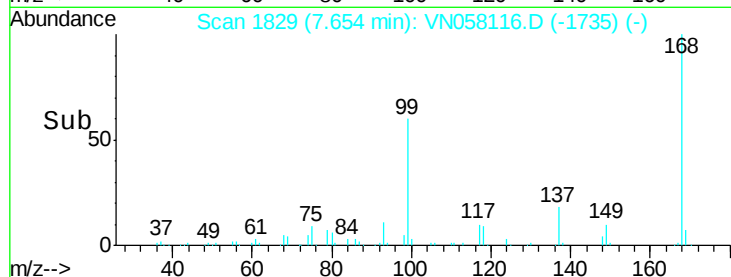
7.65

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 242

Delta R.T. 0.02 min

Lab File: VN058116.D

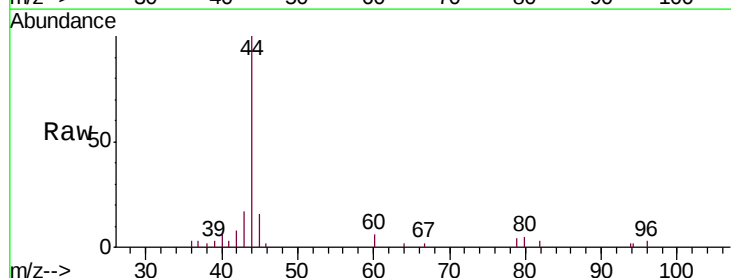
Acq: 16 Sep 2019 14:16

Tgt Ion: 94 Resp: 221

Ion Ratio Lower Upper

94 100

96 62.5 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN

400 Ion 95.90 (95.60 to 96.60): VN

2.55

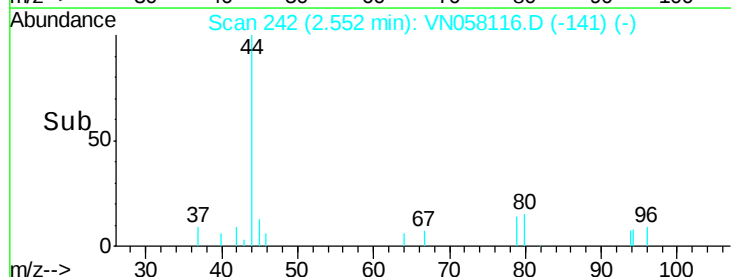
300

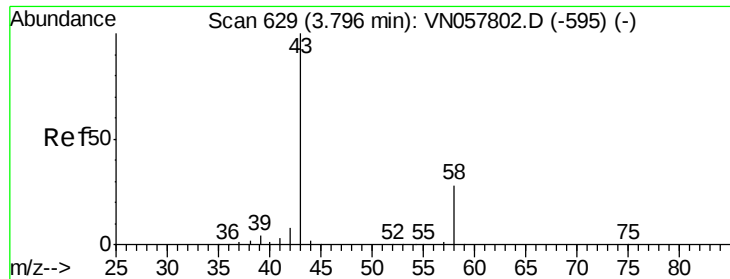
200

100

0

Time-->





#16

Acetone

Concen: 9.129 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN058116.D

Acq: 16 Sep 2019 14:16

Instrument :

MSVOA_N

ClientSampleId :

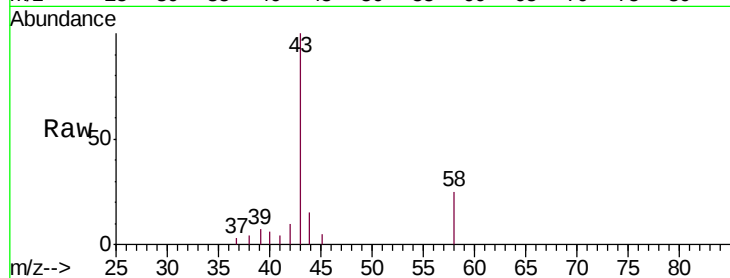
T4-2(0)-HELLGATE

Tgt Ion: 43 Resp: 18563

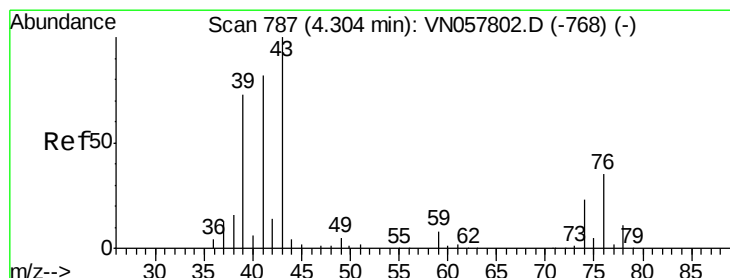
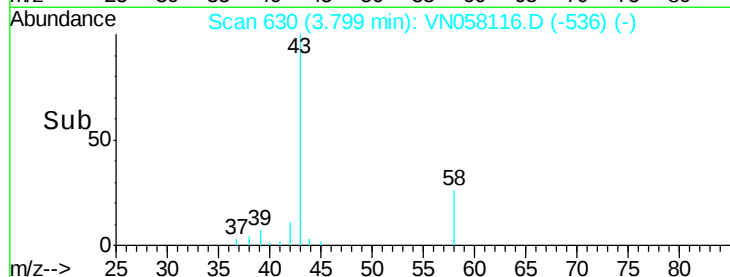
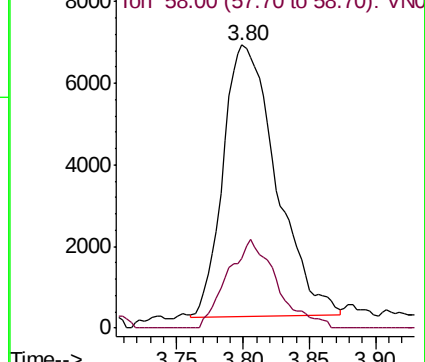
Ion Ratio Lower Upper

43 100

58 25.8 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN058116.D (-536) (-)



#18

Methyl Acetate

Concen: 1.027 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.01 min

Lab File: VN058116.D

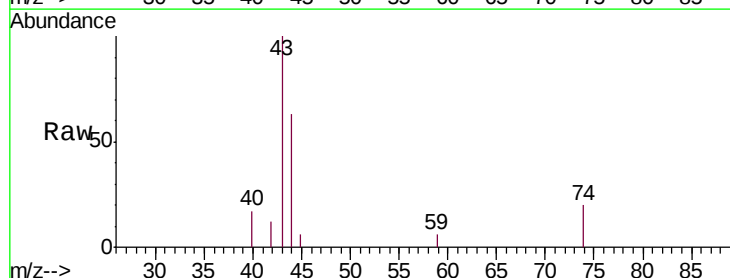
Acq: 16 Sep 2019 14:16

Tgt Ion: 43 Resp: 5569

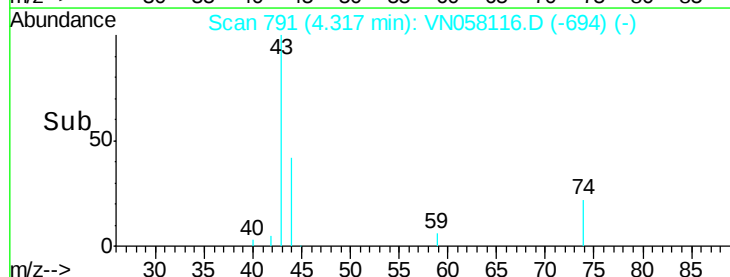
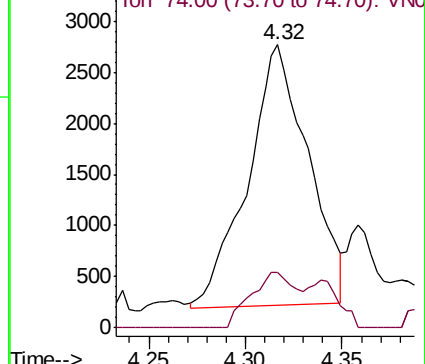
Ion Ratio Lower Upper

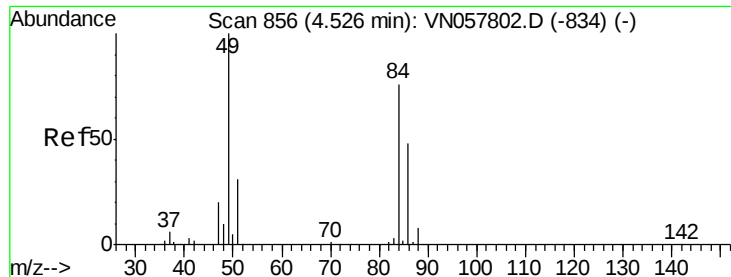
43 100

74 15.9 17.9 26.9#



Abundance Ion 43.00 (42.70 to 43.70): VN058116.D (-694) (-)

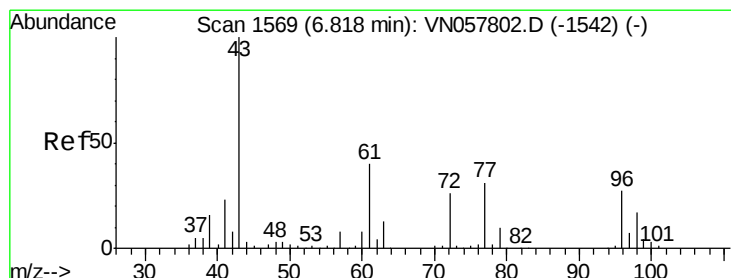
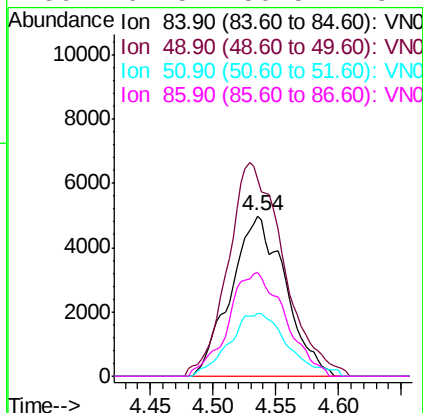
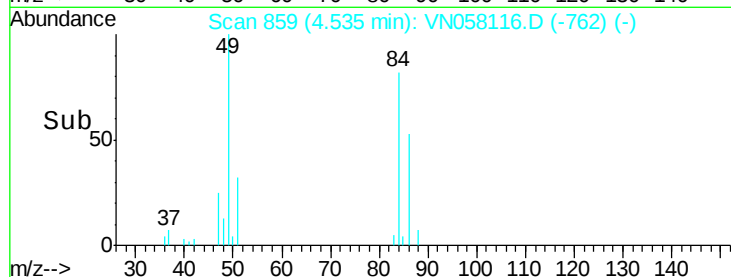
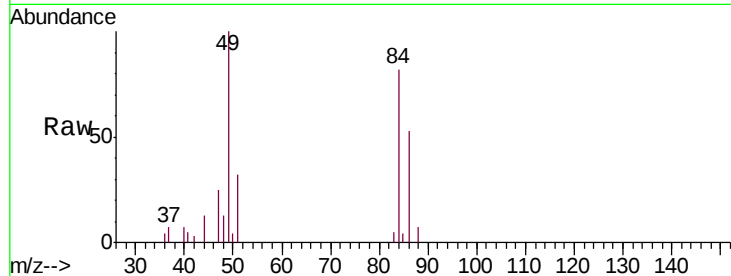




#20
Methylene Chloride
Concen: 2.712 ug/l
RT: 4.54 min Scan# 859
Delta R.T. 0.01 min
Lab File: VN058116.D
Acq: 16 Sep 2019 14:16

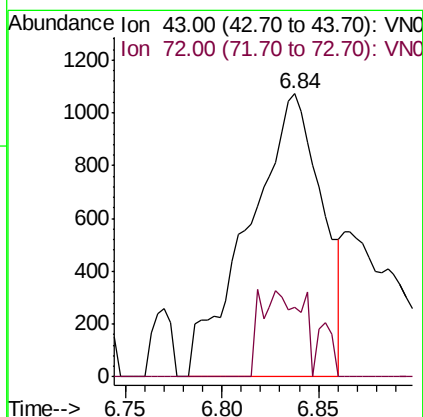
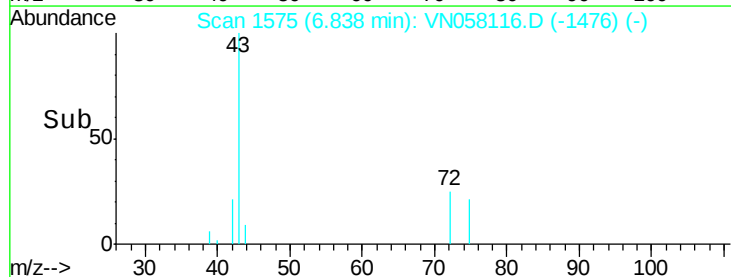
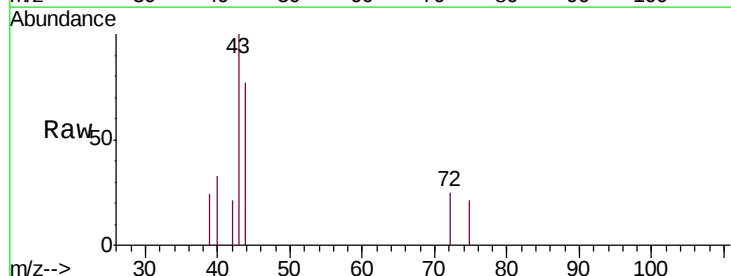
Instrument :
MSVOA_N
ClientSampleId :
T4-2(0)-HELLGATE

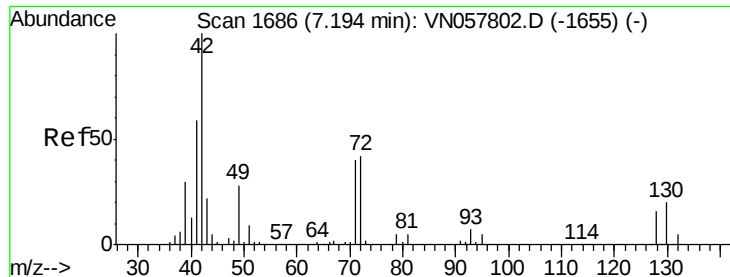
Tgt Ion:	84	Resp:	15005
Ion	Ratio	Lower	Upper
84	100		
49	117.8	104.8	157.2
51	39.0	33.0	49.4
86	64.5	50.5	75.7



#25
2-Butanone
Concen: 0.952 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.02 min
Lab File: VN058116.D
Acq: 16 Sep 2019 14:16

Tgt Ion:	43	Resp:	2803
Ion	Ratio	Lower	Upper
43	100		
72	24.8	20.6	30.8





#29

Tetrahydrofuran

Concen: 0.578 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN058116.D

Acq: 16 Sep 2019 14:16

Instrument :

MSVOA_N

ClientSampleId :

T4-2(0)-HELLGATE

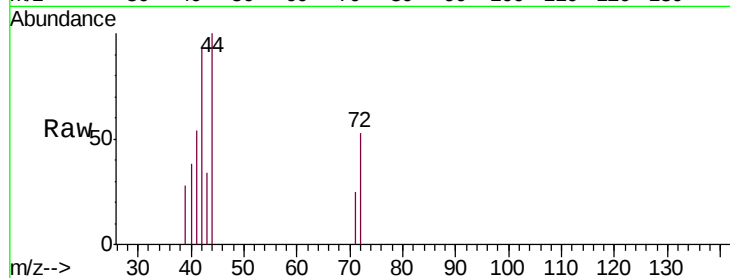
Tgt Ion: 42 Resp: 1049

Ion Ratio Lower Upper

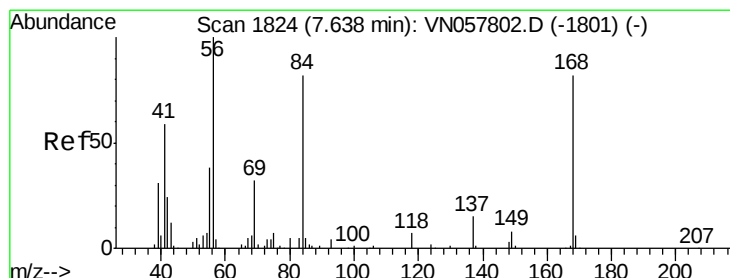
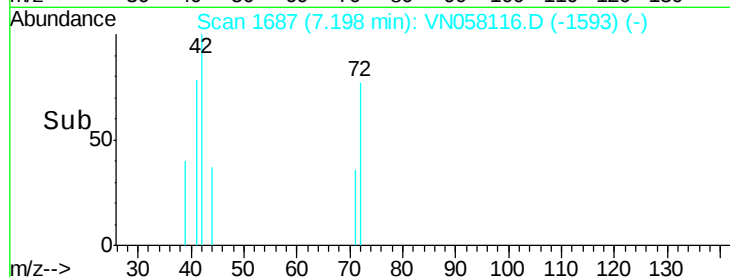
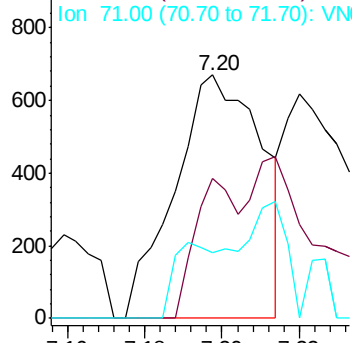
42 100

72 27.6 33.7 50.5#

71 14.0 31.9 47.9#



Abundance Ion 42.00 (41.70 to 42.70): VNO
Ion 72.00 (71.70 to 72.70): VNO
Ion 71.00 (70.70 to 71.70): VNO



#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN058116.D

Acq: 16 Sep 2019 14:16

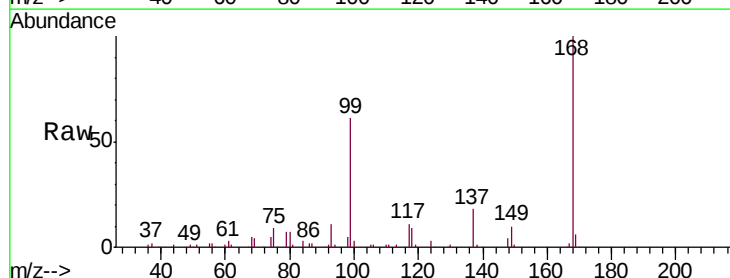
Tgt Ion: 56 Resp: 7696

Ion Ratio Lower Upper

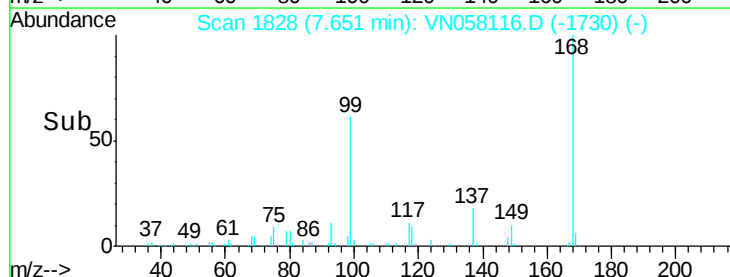
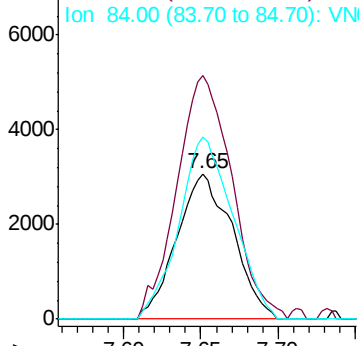
56 100

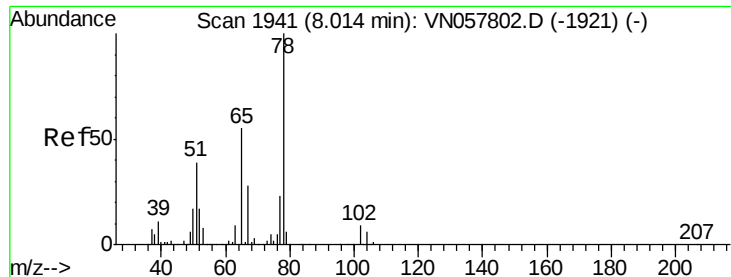
69 167.9 25.9 38.9#

84 125.6 65.6 98.4#



Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO

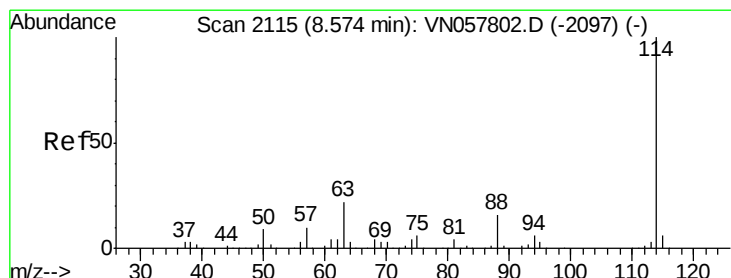
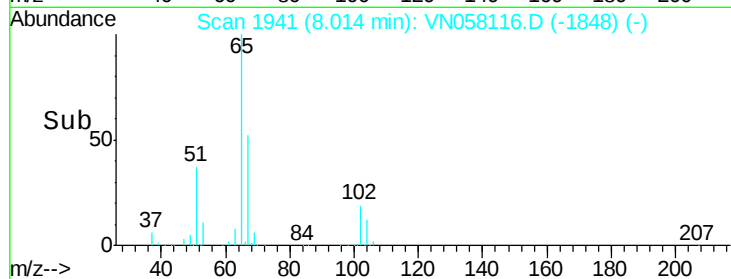
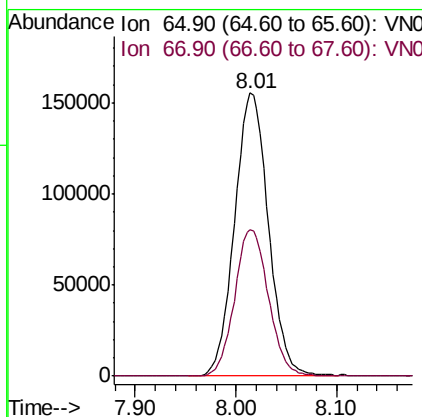
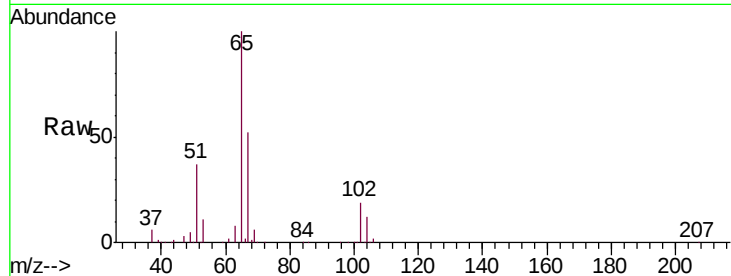




#33
 1,2-Dichloroethane-d4
 Concen: 58.279 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN058116.D
 Acq: 16 Sep 2019 14:16

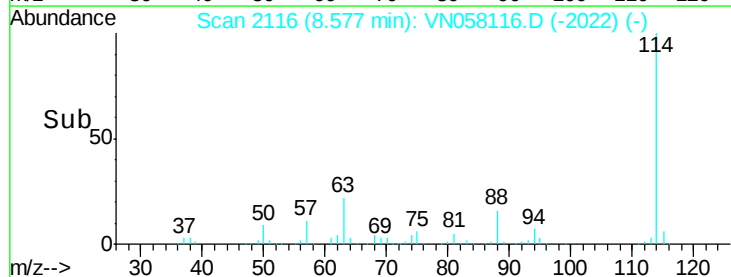
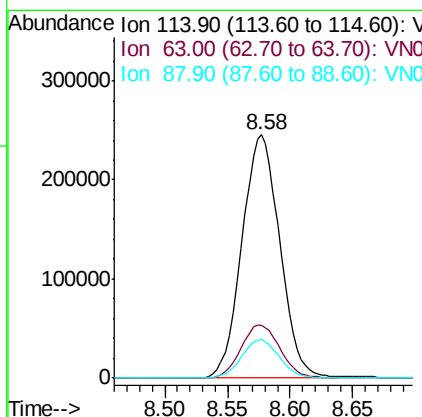
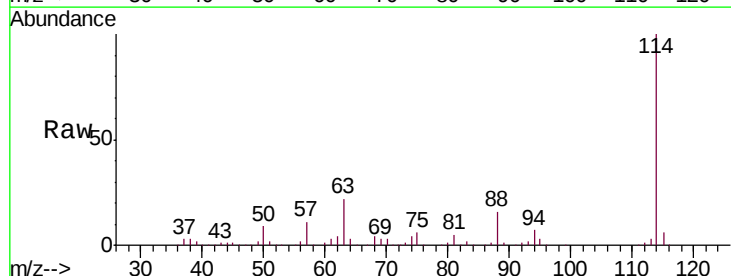
Instrument :
 MSVOA_N
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 T4-2-(0)-HELLGATE

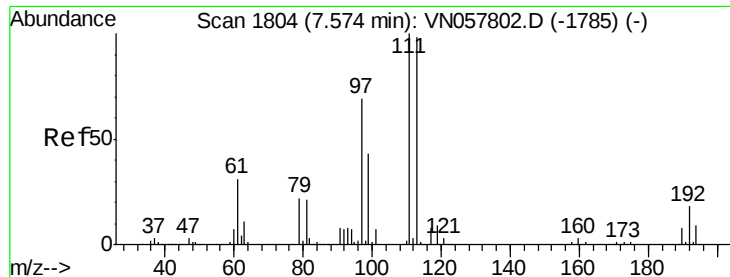
Tgt Ion: 65 Resp: 361481
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN058116.D
 Acq: 16 Sep 2019 14:16

Tgt Ion: 114 Resp: 515754
 Ion Ratio Lower Upper
 114 100
 63 21.6 0.0 44.0
 88 15.7 0.0 31.4

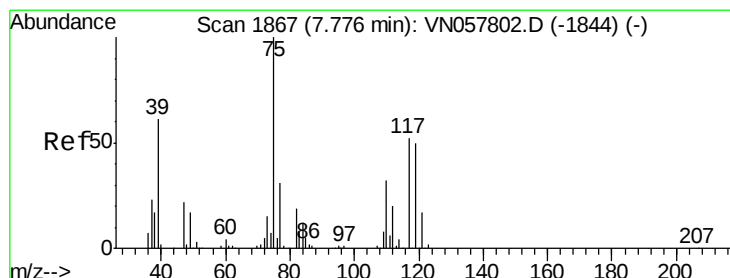
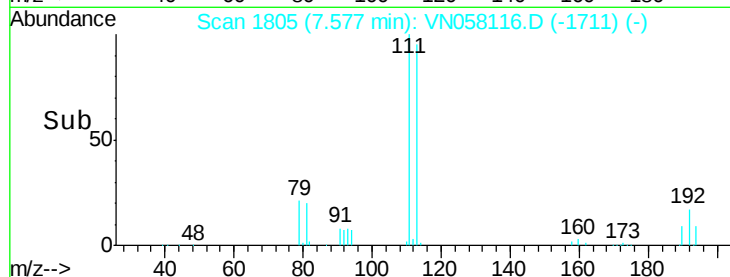
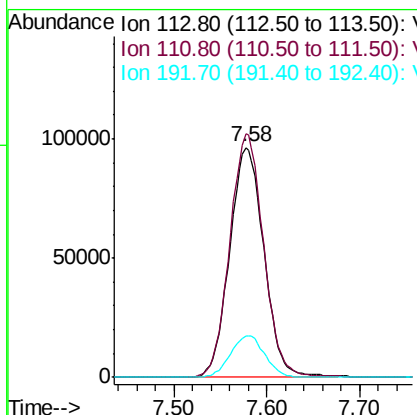
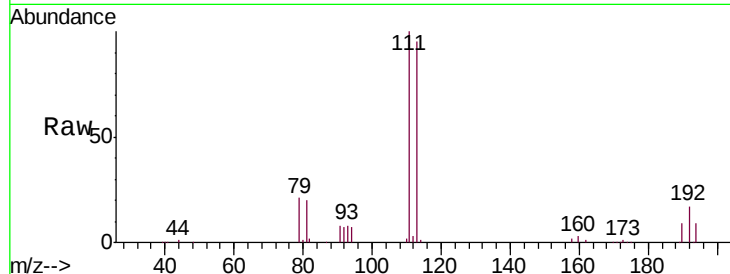




#35
 Dibromofluoromethane
 Concen: 52.007 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058116.D
 Acq: 16 Sep 2019 14:16

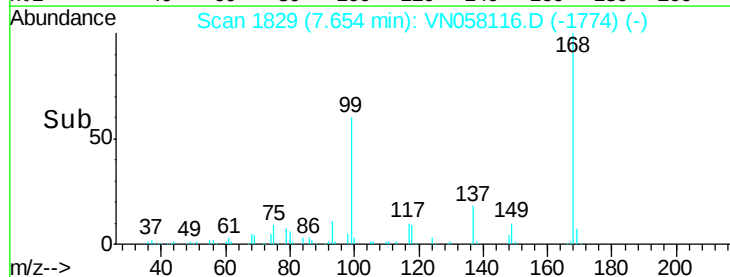
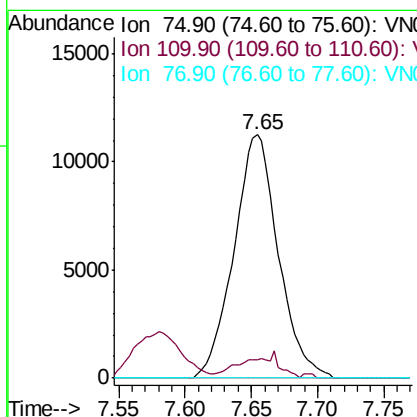
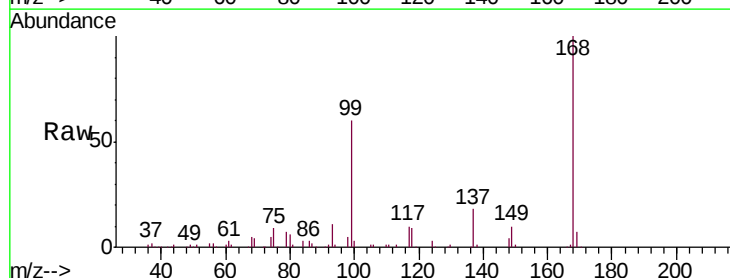
Instrument :
 MSVOA_N
 ClientSampleId :
 T4-2-(0)-HELLGATE

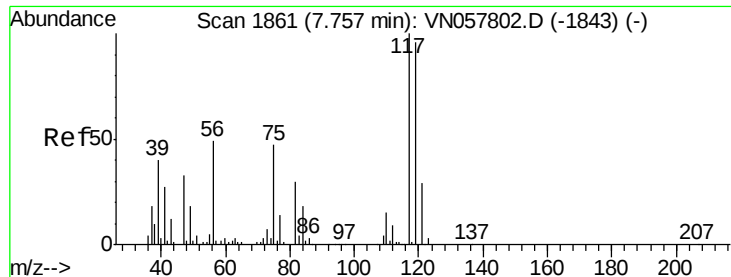
Tgt Ion	Ratio	Resp	Lower	Upper
113	100	247562		
111	104.4		81.3	121.9
192	18.2		14.6	22.0



#36
 1,1-Dichloropropene
 Concen: 4.379 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN058116.D
 Acq: 16 Sep 2019 14:16

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	26194		
110	4.0		16.3	48.9#
77	0.0		25.0	37.4#

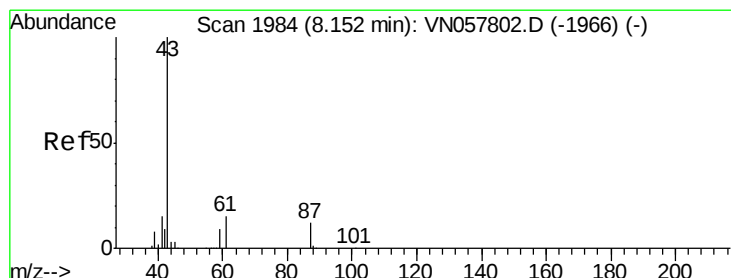
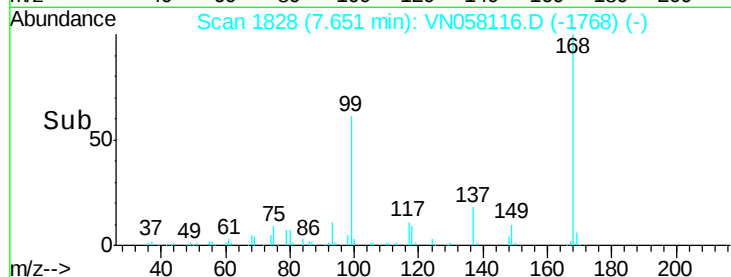
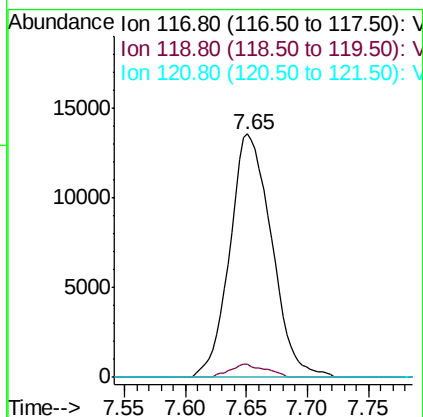
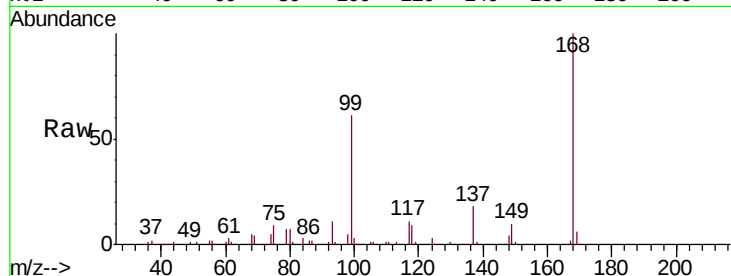




#38
Carbon Tetrachloride
Concen: 5.913 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.11 min
Lab File: VN058116.D
Acq: 16 Sep 2019 14:16

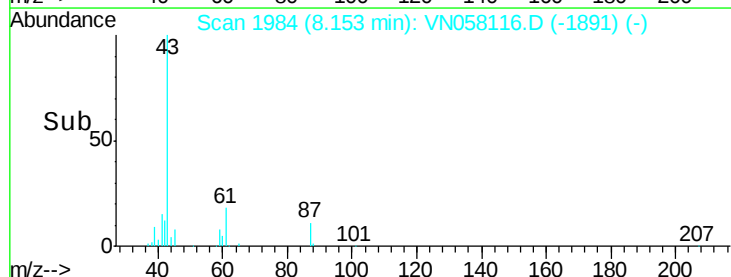
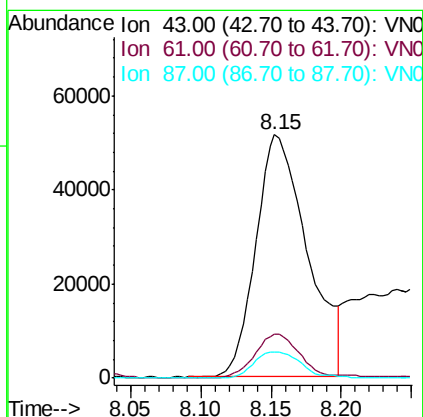
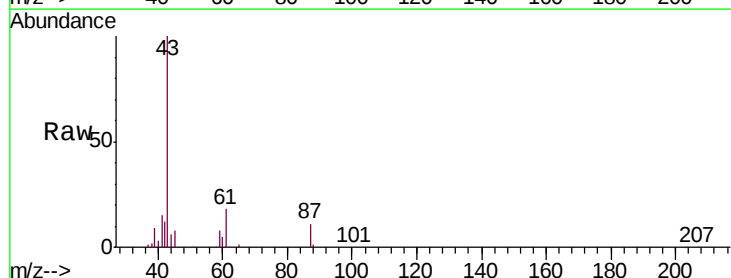
Instrument :
MSVOA_N
ClientSampleId :
T4-2(0)-HELLGATE

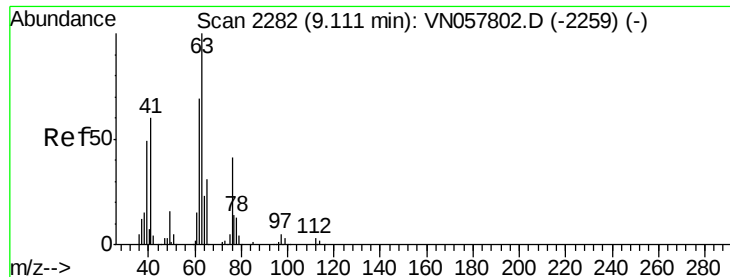
Tgt Ion:117 Resp: 32291
Ion Ratio Lower Upper
117 100
119 5.3 76.9 115.3#
121 0.0 23.4 35.2#



#43
Isopropyl Acetate
Concen: 12.662 ug/l
RT: 8.15 min Scan# 1984
Delta R.T. 0.00 min
Lab File: VN058116.D
Acq: 16 Sep 2019 14:16

Tgt Ion: 43 Resp: 131587
Ion Ratio Lower Upper
43 100
61 15.9 20.1 30.1#
87 9.9 9.5 14.3

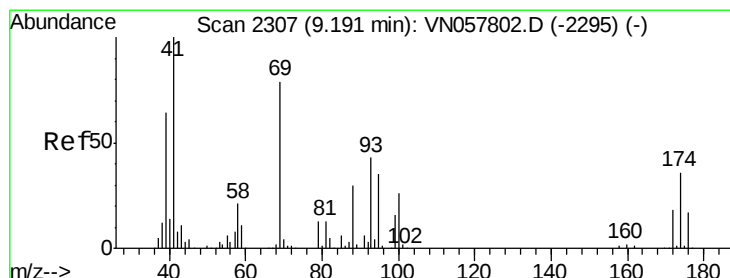
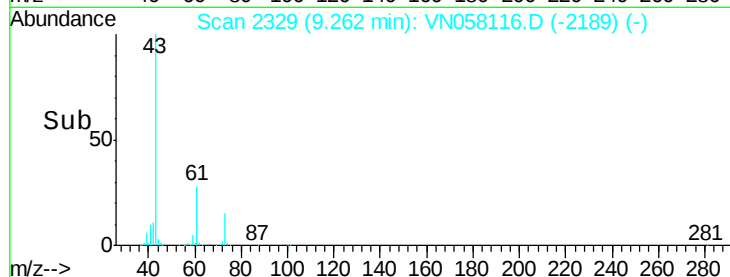
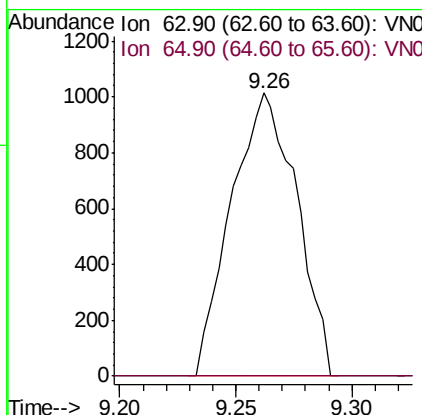
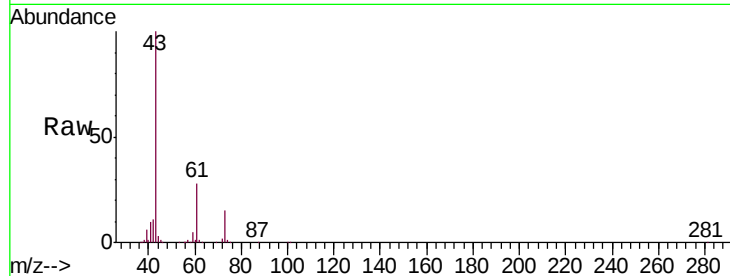




#45
 1,2-Dichloropropane
 Concen: 0.379 ug/l
 RT: 9.26 min Scan# 2329
 Delta R.T. 0.15 min
 Lab File: VN058116.D
 Acq: 16 Sep 2019 14:16

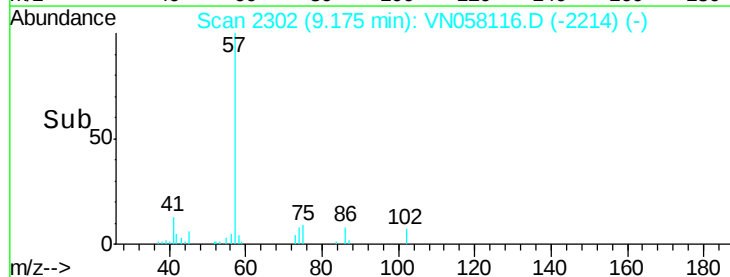
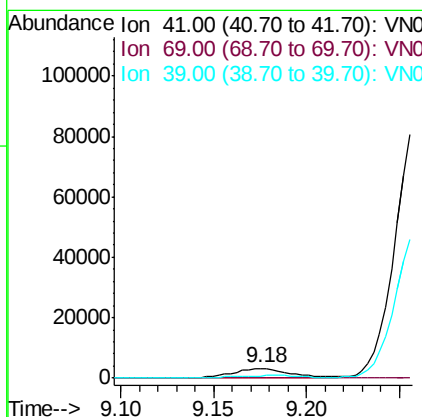
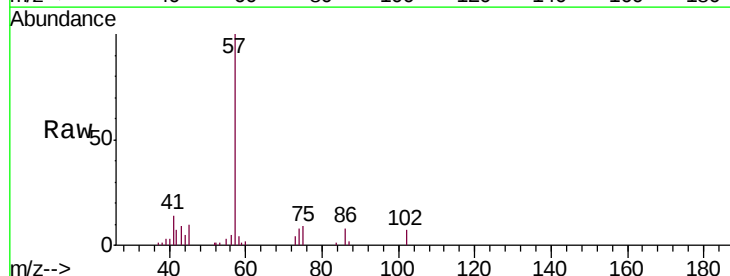
Instrument :
 MSVOA_N
 ClientSampleId :
 T4-2(0)-HELLGATE

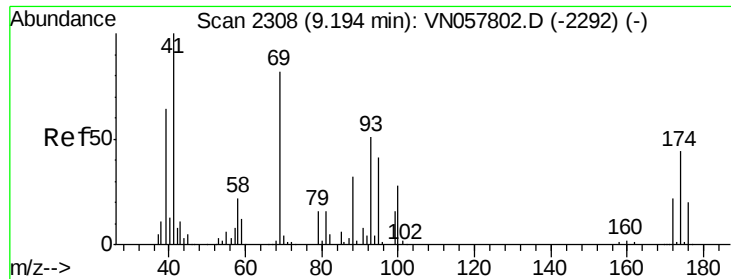
Tgt Ion: 63 Resp: 1986
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.8 37.2#



#48
 Methyl methacrylate
 Concen: 1.326 ug/l
 RT: 9.18 min Scan# 2302
 Delta R.T. -0.02 min
 Lab File: VN058116.D
 Acq: 16 Sep 2019 14:16

Tgt Ion: 41 Resp: 6990
 Ion Ratio Lower Upper
 41 100
 69 0.0 62.7 94.1#
 39 0.0 52.7 79.1#

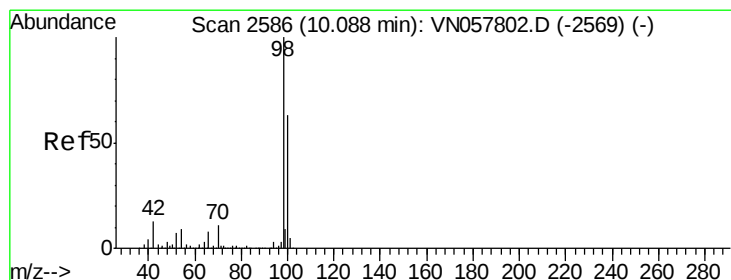
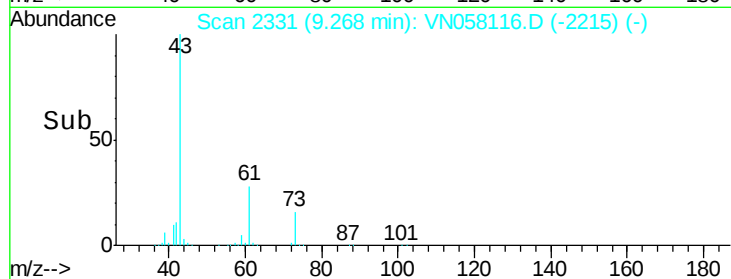
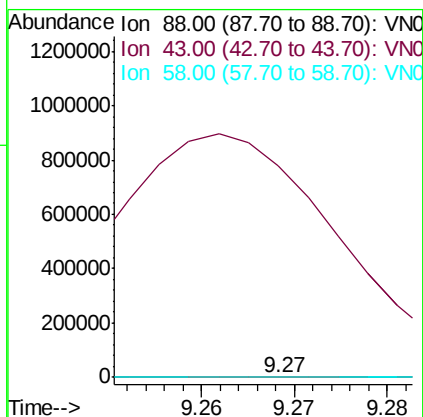
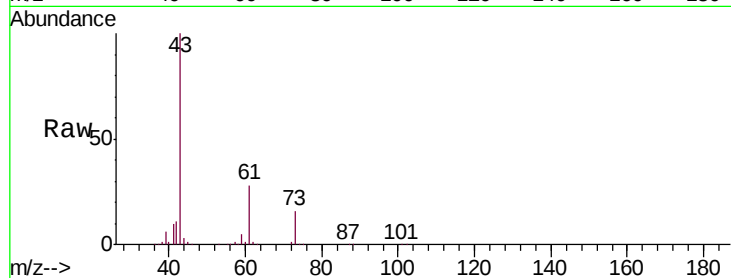




#49
 1,4-Dioxane
 Concen: 0.651 ug/l
 RT: 9.27 min Scan# 2331
 Delta R.T. 0.07 min
 Lab File: VN058116.D
 Acq: 16 Sep 2019 14:16

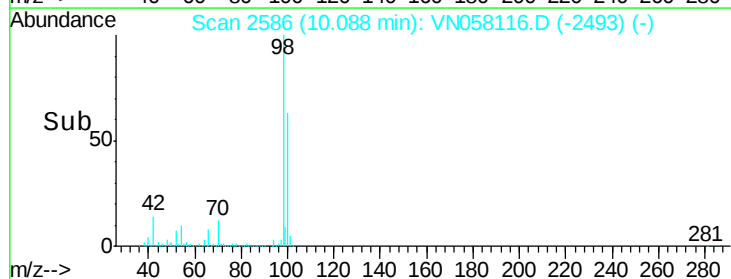
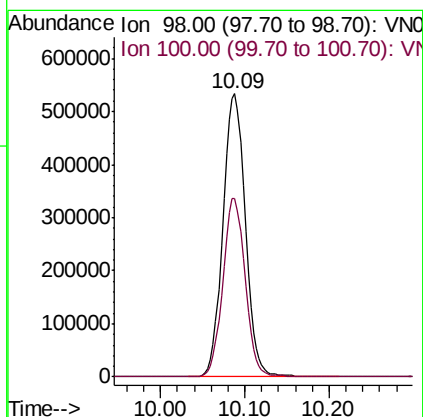
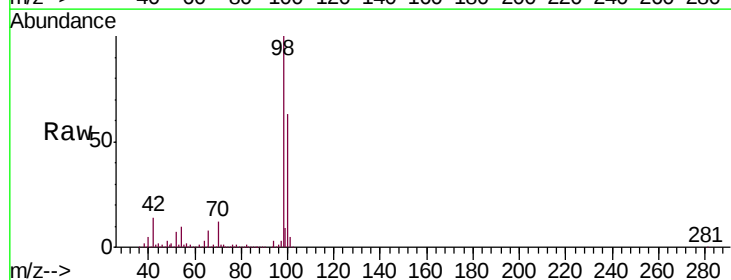
Instrument :
 MSVOA_N
 ClientSampleId :
 T4-2(0)-HELLGATE

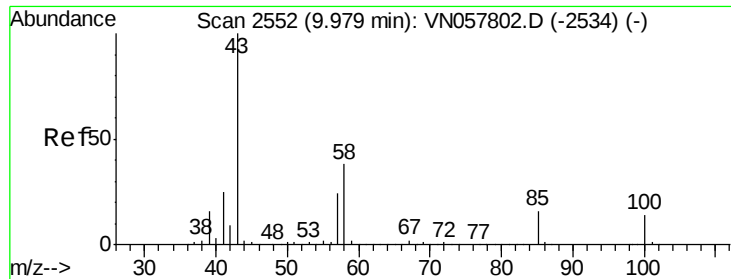
Tgt Ion: 88 Resp: 58
 Ion Ratio Lower Upper
 88 100
 43 2856279.3 28.5 42.7#
 58 13110.3 55.8 83.6#



#50
 Toluene-d8
 Concen: 53.399 ug/l
 RT: 10.09 min Scan# 2586
 Delta R.T. 0.00 min
 Lab File: VN058116.D
 Acq: 16 Sep 2019 14:16

Tgt Ion: 98 Resp: 986900
 Ion Ratio Lower Upper
 98 100
 100 62.6 50.3 75.5





#51

4-Methyl-2-Pentanone

Concen: 1.153 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058116.D

Acq: 16 Sep 2019 14:16

Instrument :

MSVOA_N

ClientSampleId :

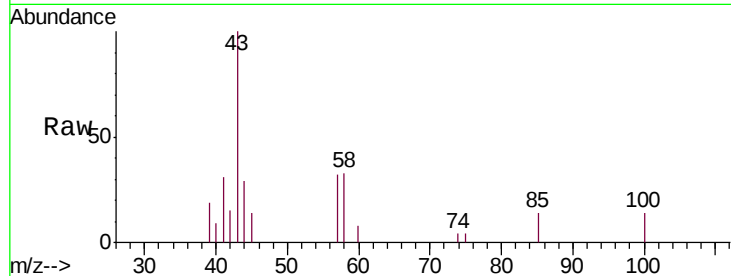
T4-2(0)-HELLGATE

Tgt Ion: 43 Resp: 7094

Ion Ratio Lower Upper

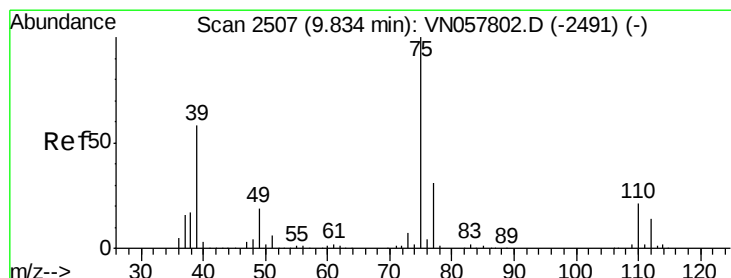
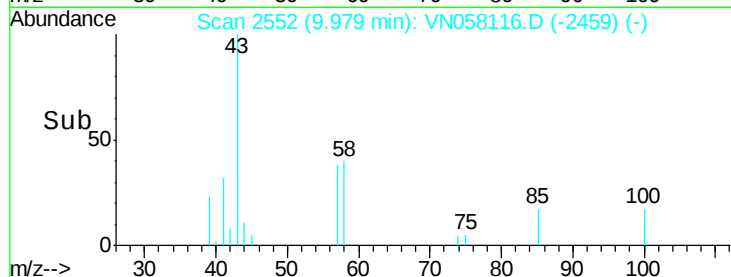
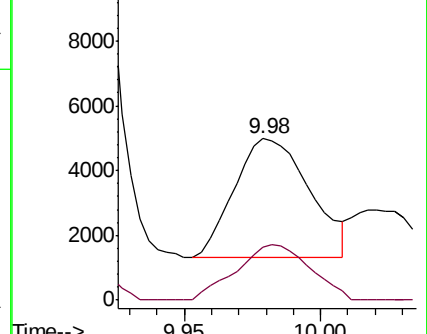
43 100

58 45.3 29.8 44.6#



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN057802.D (-2534) (-)



#54

cis-1,3-Dichloropropene

Concen: 6.700 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN058116.D

Acq: 16 Sep 2019 14:16

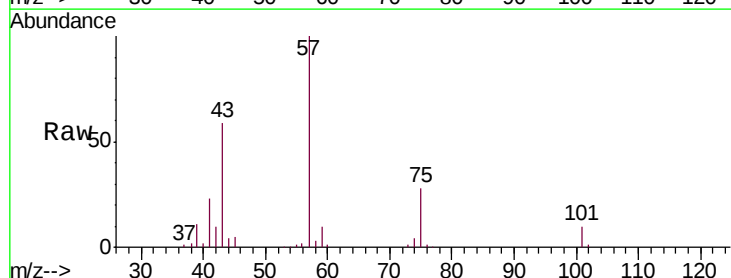
Tgt Ion: 75 Resp: 49257

Ion Ratio Lower Upper

75 100

77 0.5 24.8 37.2#

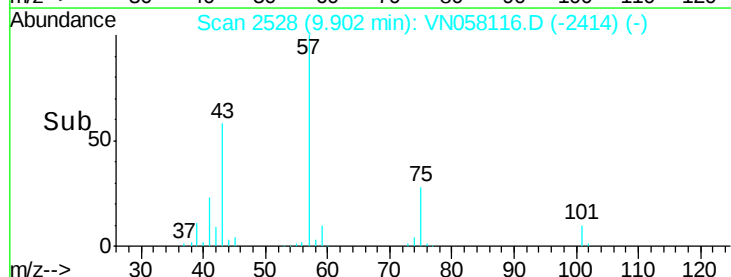
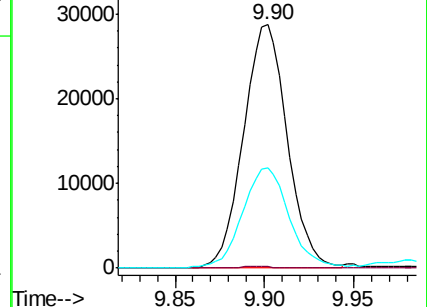
39 40.6 46.2 69.4#

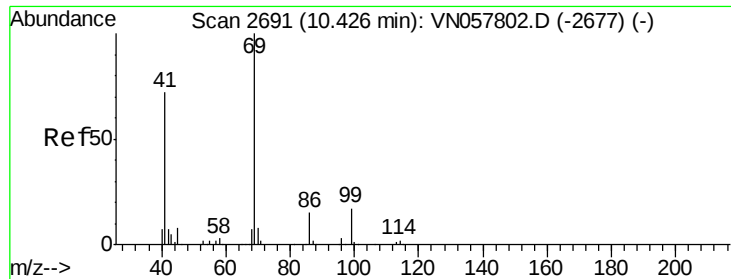


Abundance Ion 74.90 (74.60 to 75.60): VN058116.D (-2414) (-)

Ion 76.90 (76.60 to 77.60): VN058116.D (-2414) (-)

Ion 39.00 (38.70 to 39.70): VN058116.D (-2414) (-)





#56

Ethyl methacrylate

Concen: 0.334 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN058116.D

Acq: 16 Sep 2019 14:16

Instrument :

MSVOA_N

ClientSampleId :

T4-2(0)-HELLGATE

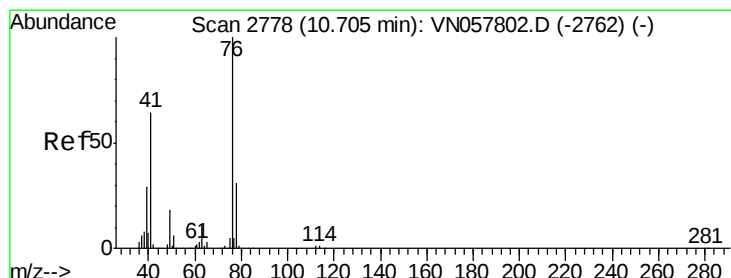
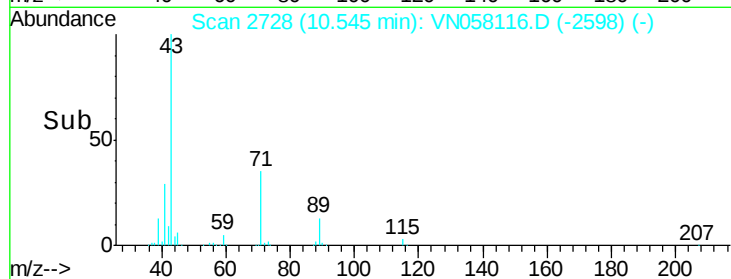
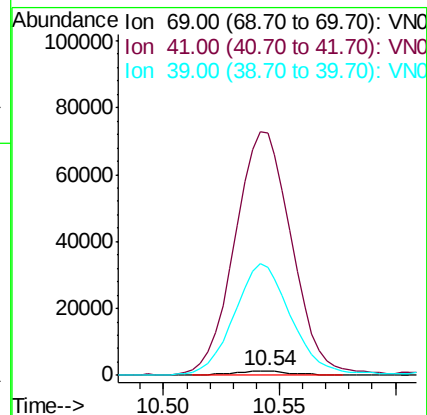
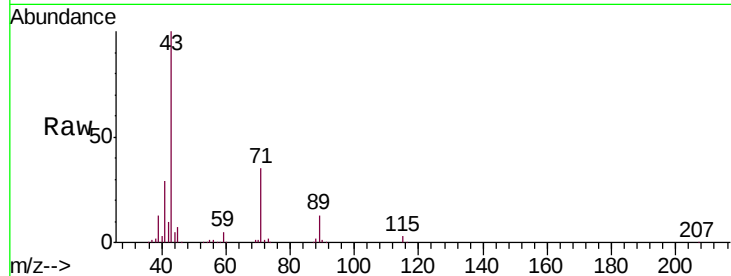
Tgt Ion: 69 Resp: 2413

Ion Ratio Lower Upper

69 100

41 5120.8 56.7 85.1#

39 2386.4 36.3 54.5#



#57

1,3-Dichloropropane

Concen: 0.876 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN058116.D

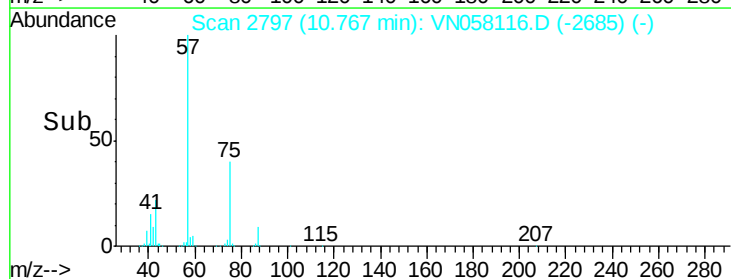
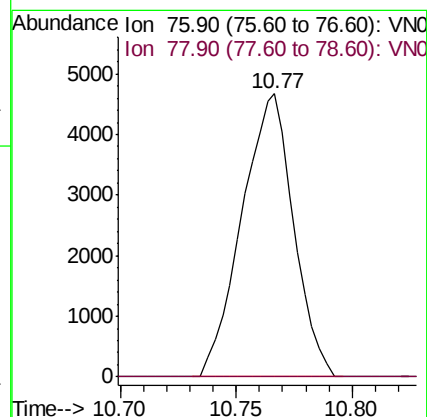
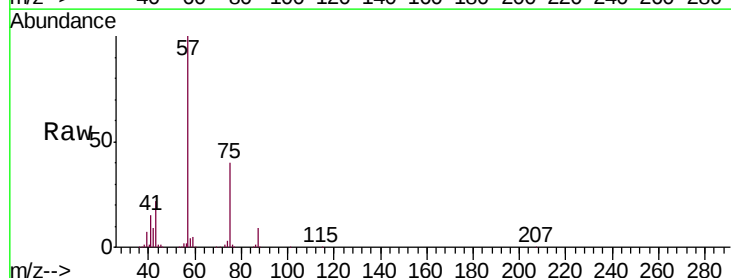
Acq: 16 Sep 2019 14:16

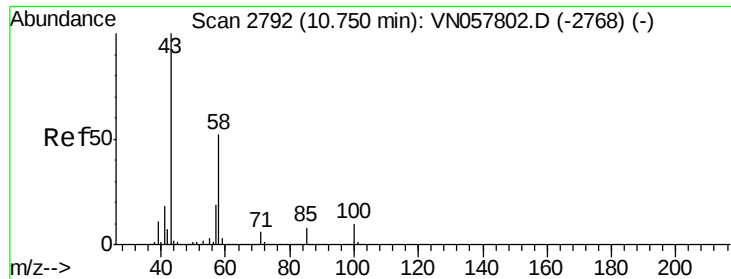
Tgt Ion: 76 Resp: 7252

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#

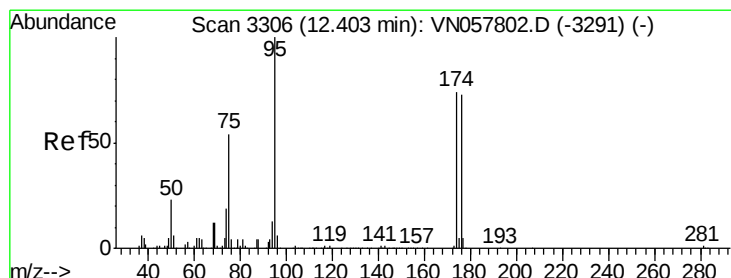
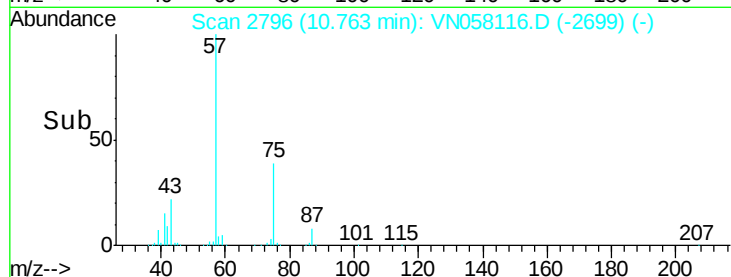
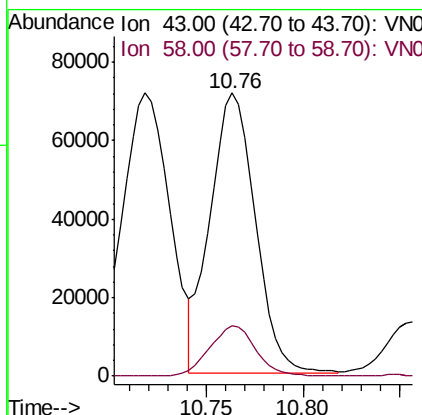
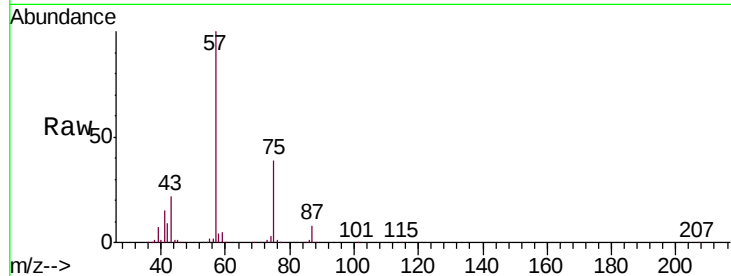




#59
2-Hexanone
Concen: 25.345 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN058116.D
Acq: 16 Sep 2019 14:16

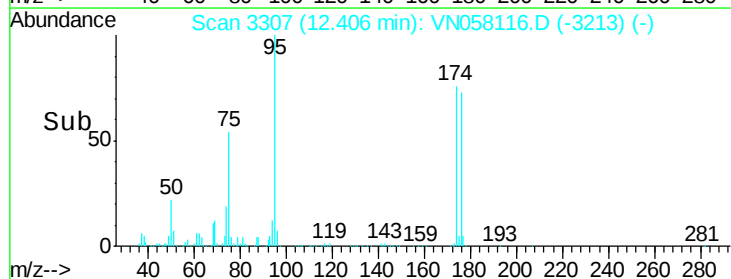
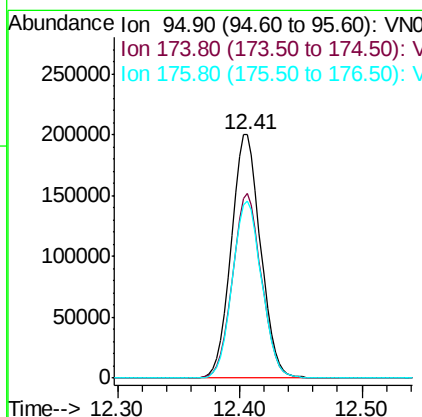
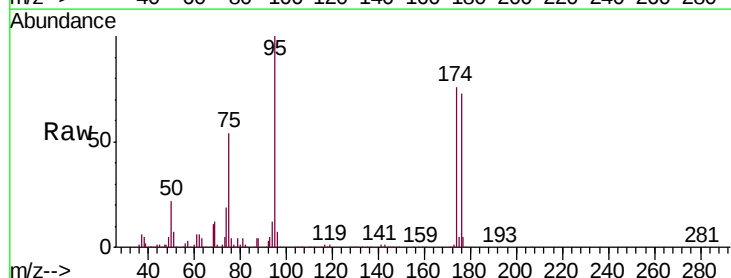
Instrument :
MSVOA_N
ClientSampleId :
T4-2(0)-HELLGATE

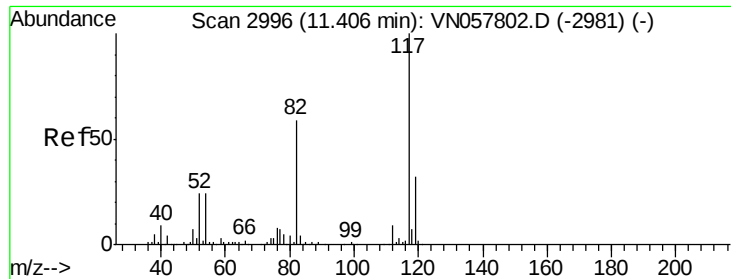
Tgt Ion: 43 Resp: 116831
Ion Ratio Lower Upper
43 100
58 18.2 25.6 76.8#



#62
4-Bromofluorobenzene
Concen: 47.519 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058116.D
Acq: 16 Sep 2019 14:16

Tgt Ion: 95 Resp: 334684
Ion Ratio Lower Upper
95 100
174 74.5 0.0 150.2
176 72.6 0.0 146.0

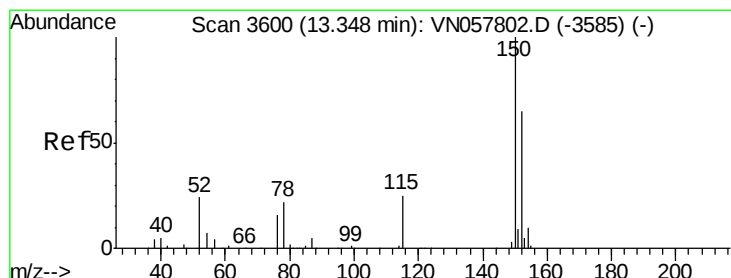
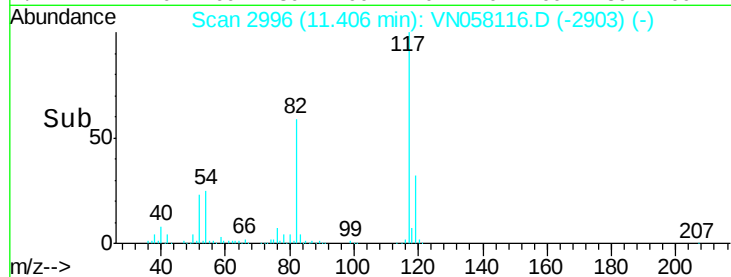
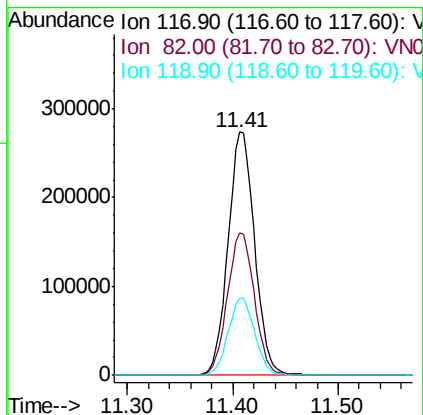
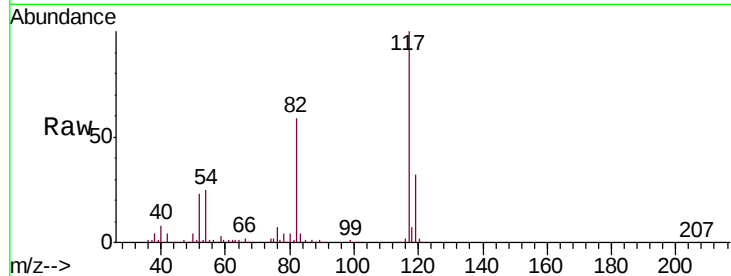




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058116.D
Acq: 16 Sep 2019 14:16

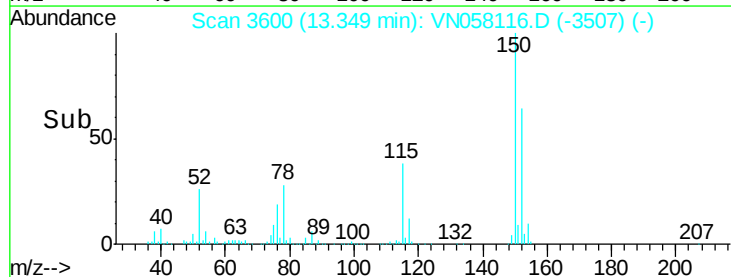
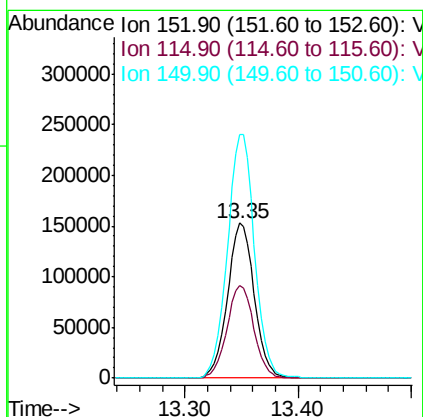
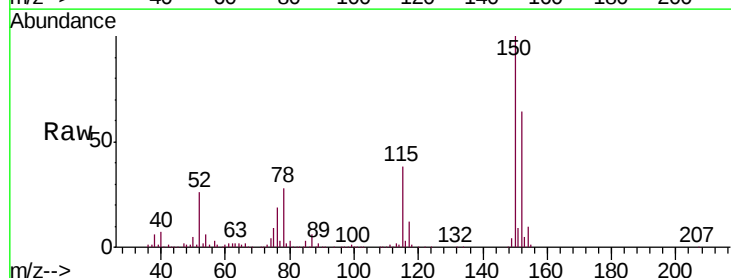
Instrument :
MSVOA_N
ClientSampleId :
T4-2-(0)-HELLGATE

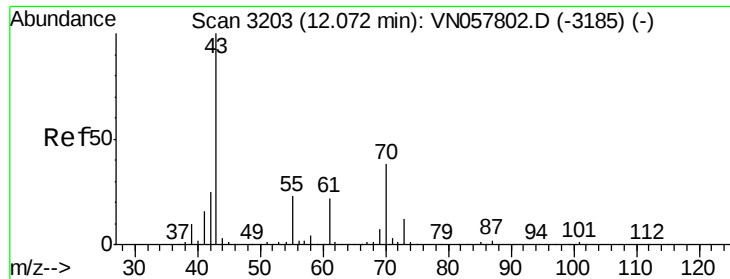
Tgt Ion:117 Resp: 477113
Ion Ratio Lower Upper
117 100
82 58.7 47.2 70.8
119 31.8 25.3 37.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN058116.D
Acq: 16 Sep 2019 14:16

Tgt Ion:152 Resp: 250735
Ion Ratio Lower Upper
152 100
115 60.4 30.3 91.0
150 159.3 0.0 352.4

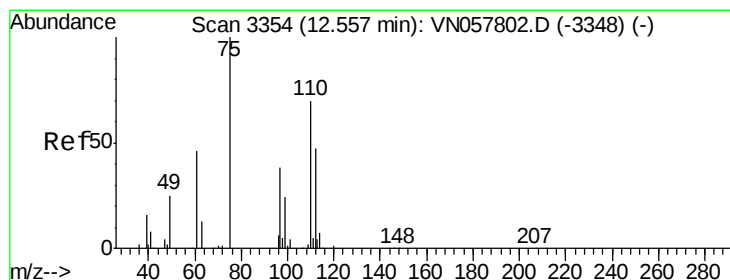
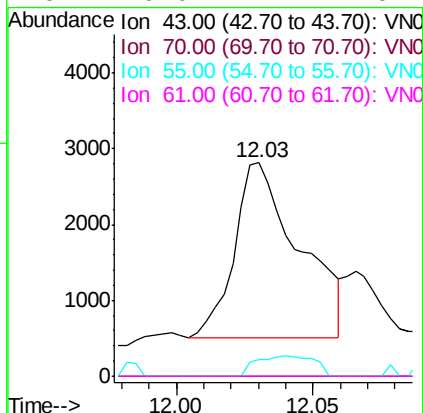
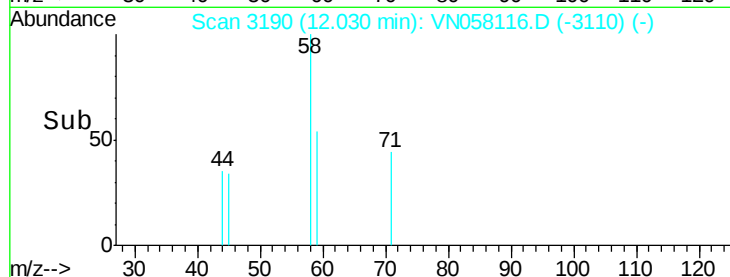
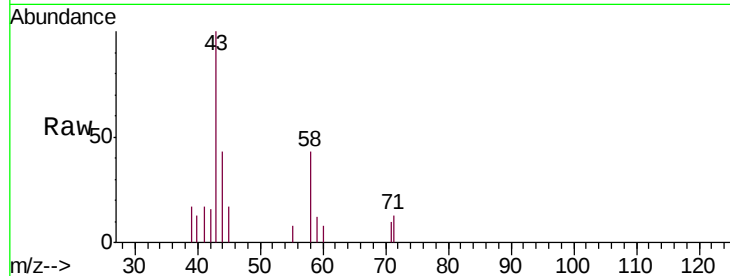




#74
N-ethyl acetate
Concen: 0.449 ug/l
RT: 12.03 min Scan# 3190
Delta R.T. -0.04 min
Lab File: VN058116.D
Acq: 16 Sep 2019 14:16

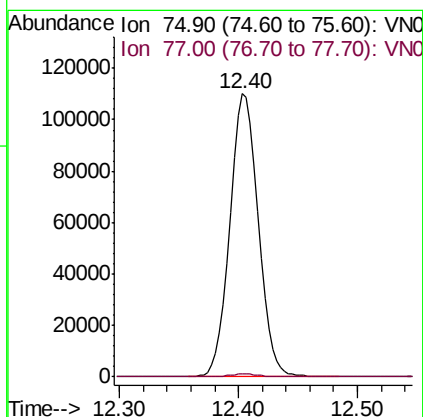
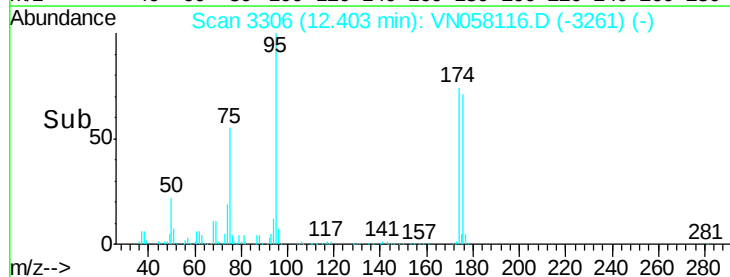
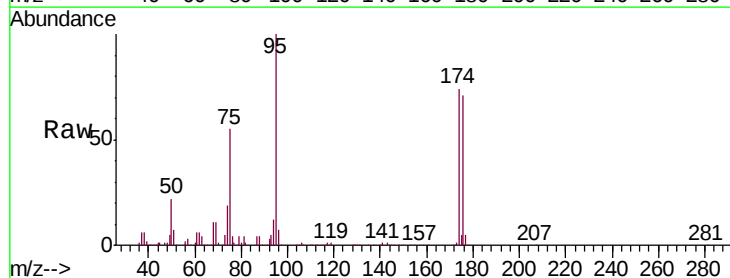
Instrument :
MSVOA_N
ClientSampleId :
T4-2(0)-HELLGATE

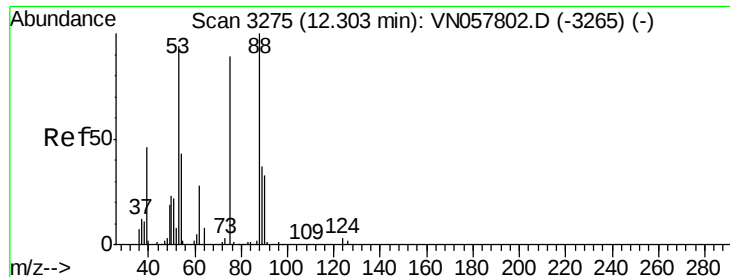
Tgt Ion: 43 Resp: 3800
Ion Ratio Lower Upper
43 100
70 0.0 30.6 45.8#
55 10.4 18.6 27.8#
61 0.0 17.4 26.2#



#76
1,2,3-Trichloropropane
Concen: 32.168 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.15 min
Lab File: VN058116.D
Acq: 16 Sep 2019 14:16

Tgt Ion: 75 Resp: 182456
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 113.198 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058116.D

Acq: 16 Sep 2019 14:16

Instrument :

MSVOA_N

ClientSampleId :

T4-2(0)-HELLGATE

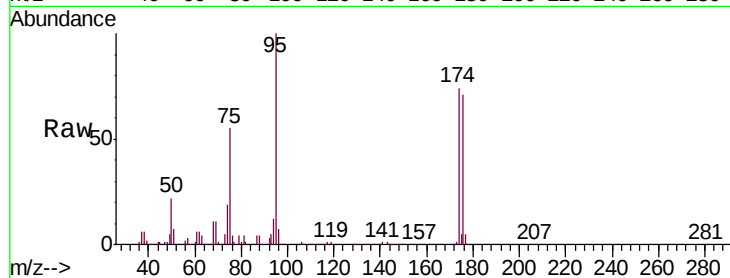
Tgt Ion: 75 Resp: 182456

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

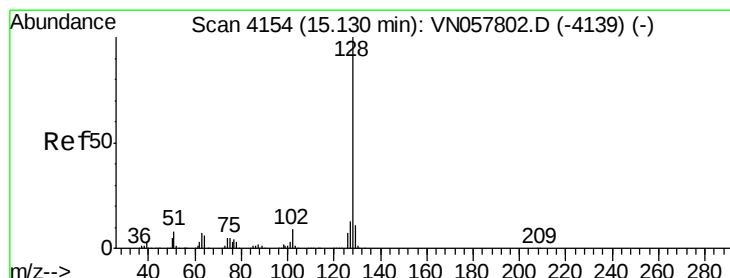
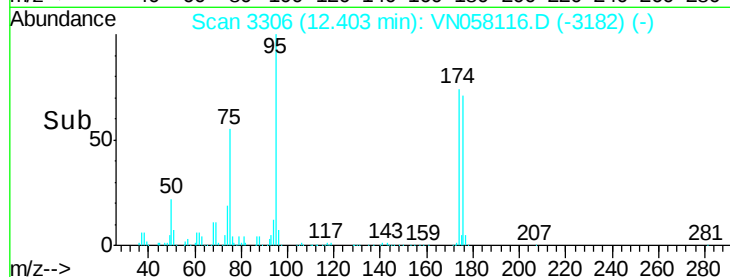
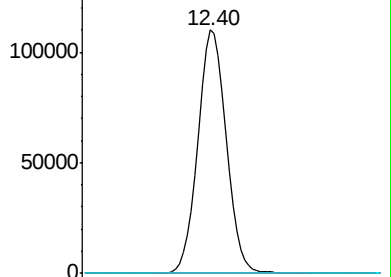
89 0.1 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN058116.D (-3182) (-)

Ion 53.00 (52.70 to 53.70): VN058116.D (-3182) (-)

Ion 88.90 (88.60 to 89.60): VN058116.D (-3182) (-)



#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN058116.D

Acq: 16 Sep 2019 14:16

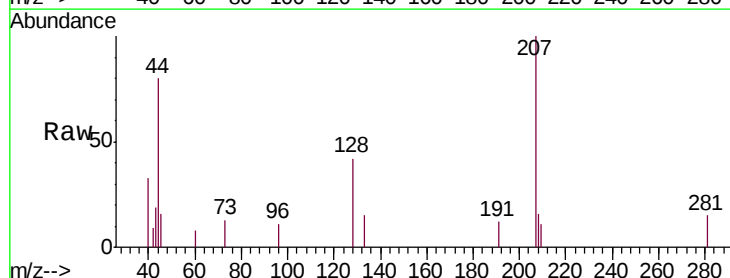
Tgt Ion: 128 Resp: 1220

Ion Ratio Lower Upper

128 100

127 2.5 10.3 15.5#

129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VN058116.D (-4060) (-)

Ion 127.00 (126.70 to 127.70): VN058116.D (-4060) (-)

Ion 129.00 (128.70 to 129.70): VN058116.D (-4060) (-)

