

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080519\
 Data File : VN057084.D
 Acq On : 5 Aug 2019 16:01
 Operator : JC/SP
 Sample : K4135-27
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 06 01:11:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 01:33:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	570062	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	833263	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	697066	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	192744	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	284201	48.70	ug/l	0.00
Spiked Amount			Recovery	=	97.40%	
35) Dibromofluoromethane	7.58	113	256278	48.04	ug/l	0.00
Spiked Amount			Recovery	=	96.08%	
50) Toluene-d8	10.08	98	970523	47.71	ug/l	0.00
Spiked Amount			Recovery	=	95.42%	
62) 4-Bromofluorobenzene	12.40	95	263174	39.74	ug/l	0.00
Spiked Amount			Recovery	=	79.48%	

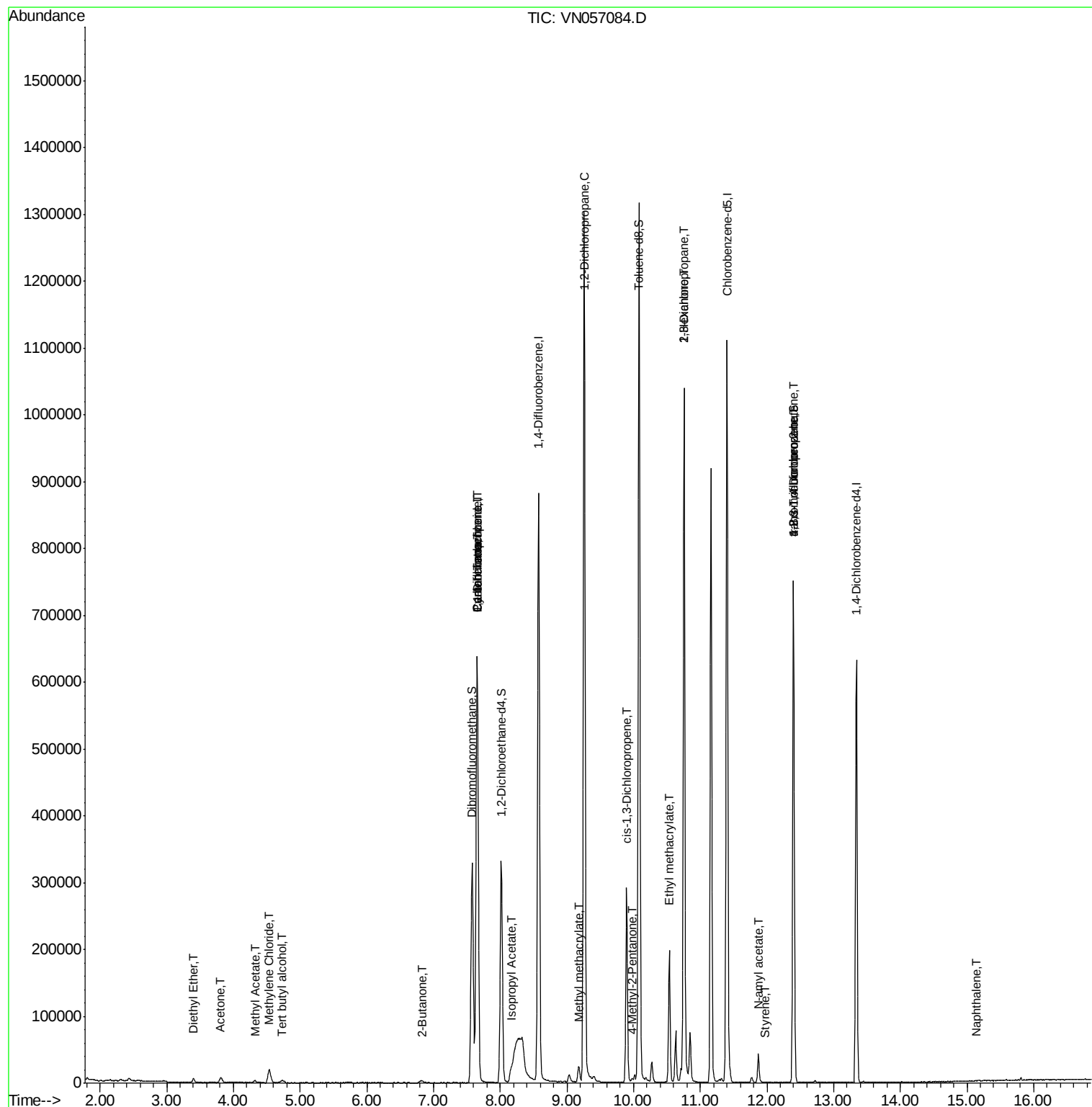
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.40	74	3442	1.086	ug/l	95
11) Tert butyl alcohol	4.73	59	989	1.254	ug/l #	74
16) Acetone	3.81	43	14368	6.796	ug/l	99
18) Methyl Acetate	4.32	43	6050	0.897	ug/l #	88
20) Methylene Chloride	4.54	84	16010	2.629	ug/l	94
25) 2-Butanone	6.84	43	1260	0.420	ug/l #	48
31) Cyclohexane	7.65	56	8225	0.858	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	35464	4.837	ug/l #	49
38) Carbon Tetrachloride	7.65	117	46897	6.762	ug/l #	16
43) Isopropyl Acetate	8.17	43	23625	2.434	ug/l #	88
45) 1,2-Dichloropropane	9.26	63	1718	0.284	ug/l #	44
48) Methyl methacrylate	9.18	41	8129	1.735	ug/l #	12
51) 4-Methyl-2-Pentanone	9.98	43	3585	0.622	ug/l	97
54) cis-1,3-Dichloropropene	9.90	75	56601	6.550	ug/l #	60
56) Ethyl methacrylate	10.54	69	877	1.864	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	11280	1.250	ug/l #	42
59) 2-Hexanone	10.76	43	144018	34.604	ug/l #	51
70) Styrene	11.96	104	32	1.869	ug/l #	26
74) N-amyl acetate	11.87	43	14086	2.912	ug/l #	50
76) 1,2,3-Trichloropropane	12.40	75	121520	31.045	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	121520	99.747	ug/l #	15
95) Naphthalene	15.13	128	327	3.625	ug/l #	70

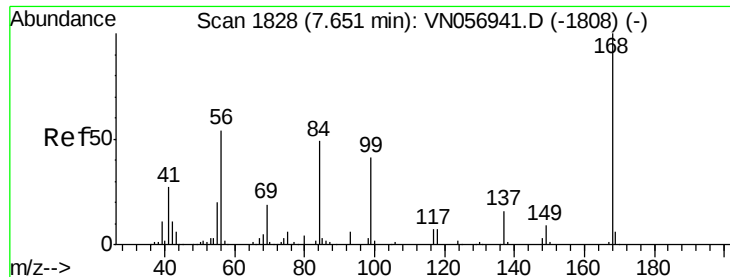
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jul 27 01:33:29 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN057084.D

Acq: 5 Aug 2019 16:01

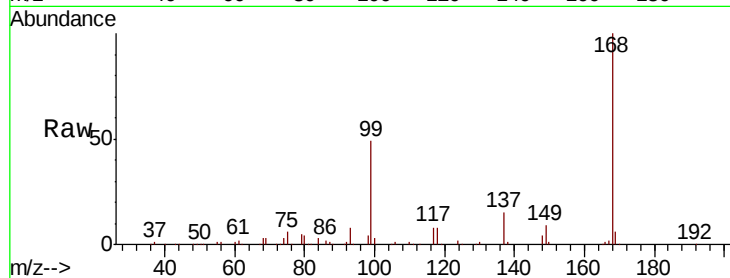
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 570062

Ion Ratio Lower Upper

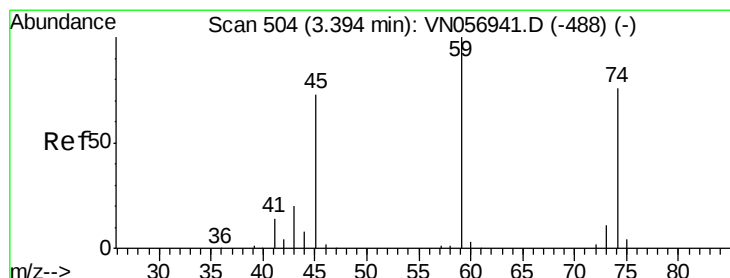
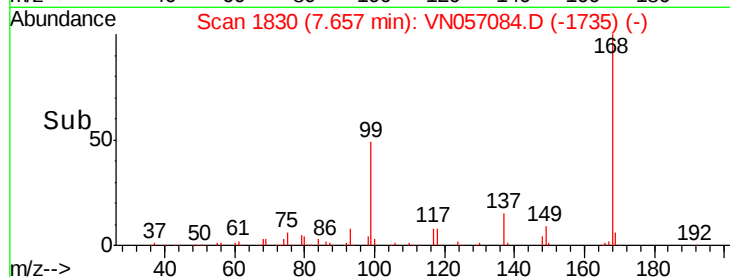
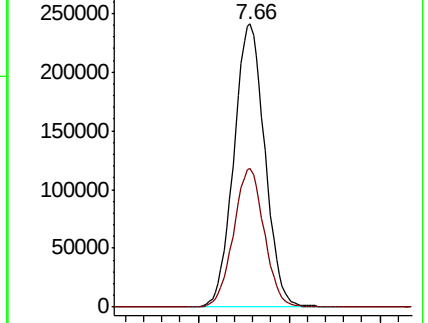
168 100

99 48.9 39.0 58.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#8

Diethyl Ether

Concen: 1.086 ug/l

RT: 3.40 min Scan# 505

Delta R.T. 0.00 min

Lab File: VN057084.D

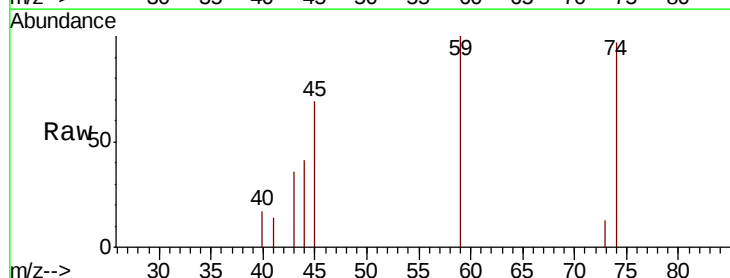
Acq: 5 Aug 2019 16:01

Tgt Ion: 74 Resp: 3442

Ion Ratio Lower Upper

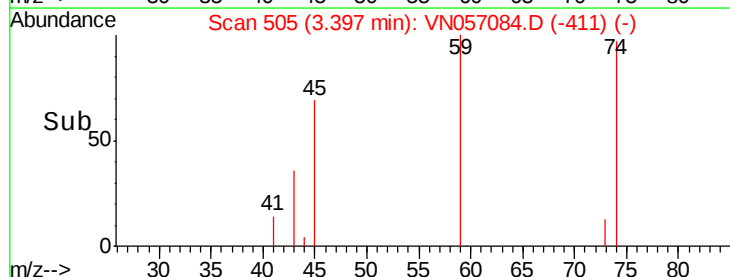
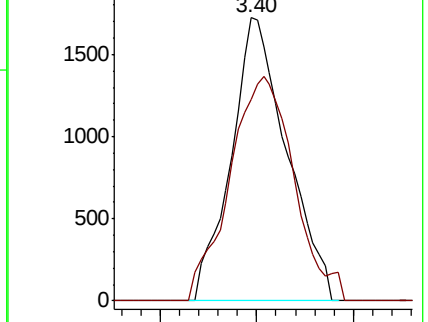
74 100

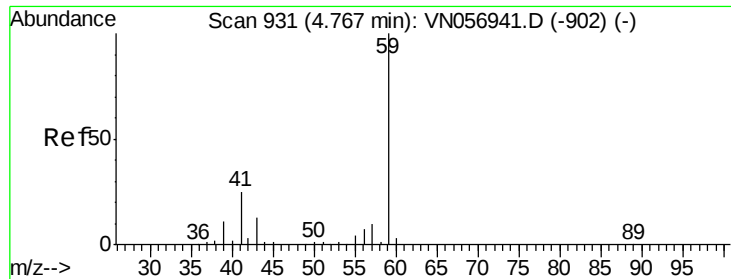
45 91.3 48.1 144.3



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO

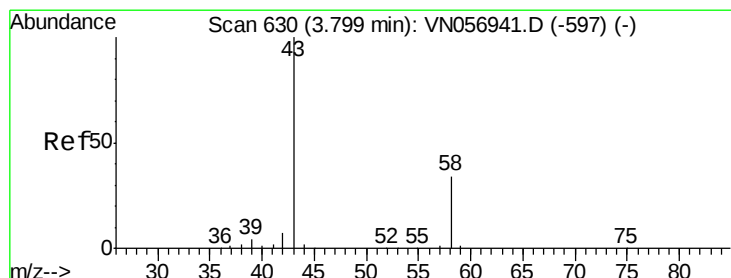
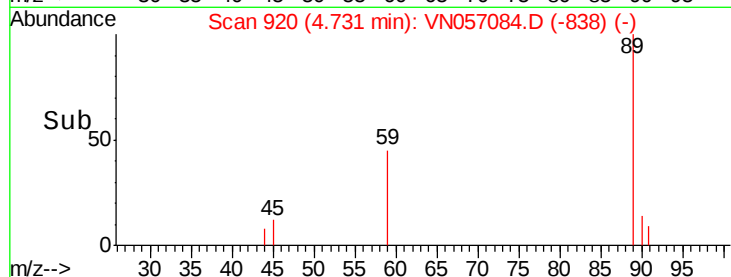
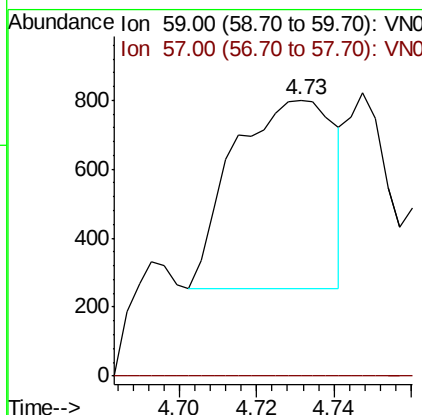
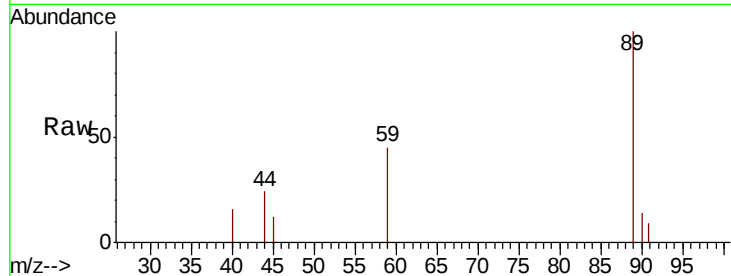




#11
Tert butyl alcohol
Concen: 1.254 ug/l
RT: 4.73 min Scan# 920
Delta R.T. -0.04 min
Lab File: VN057084.D
Acq: 5 Aug 2019 16:01

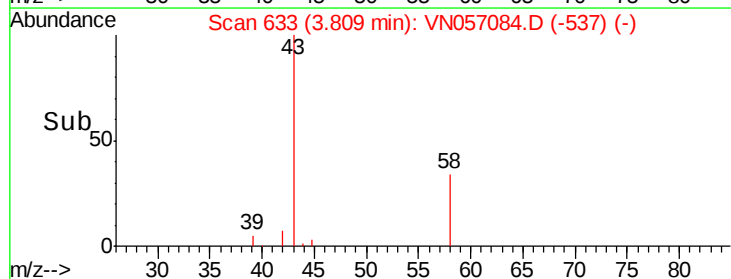
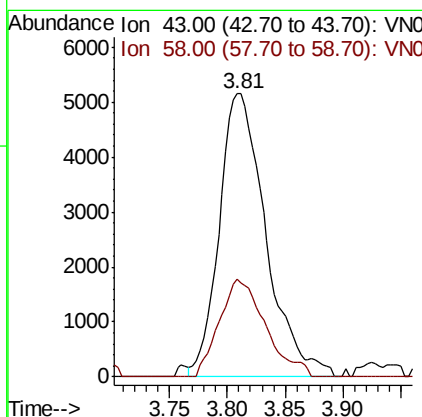
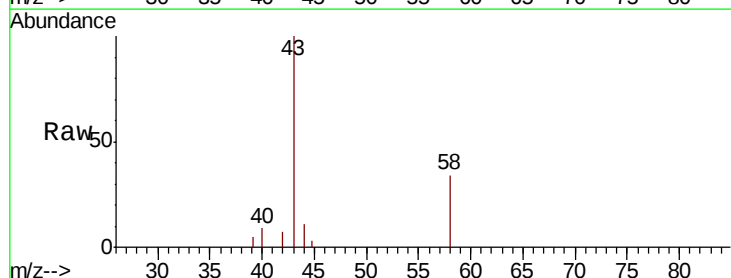
Instrument :
MSVOA_N
ClientSampled :

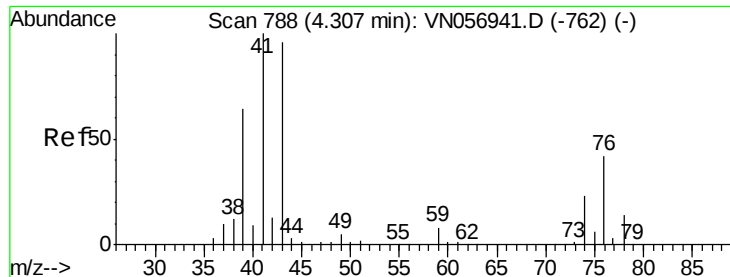
Tot Ion: 59 Resp: 989
Ion Ratio Lower Upper
59 100
57 0.0 7.5 11.3#



#16
Acetone
Concen: 6.796 ug/l
RT: 3.81 min Scan# 633
Delta R.T. 0.01 min
Lab File: VN057084.D
Acq: 5 Aug 2019 16:01

Tgt Ion: 43 Resp: 14368
Ion Ratio Lower Upper
43 100
58 34.4 27.2 40.8

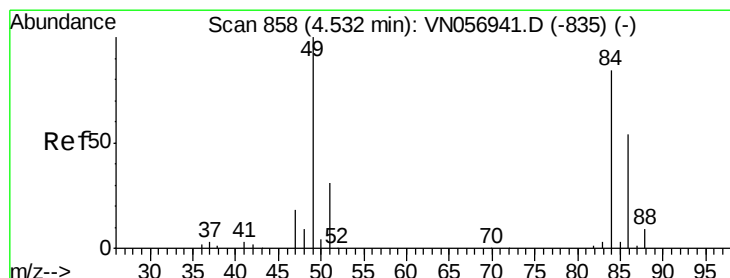
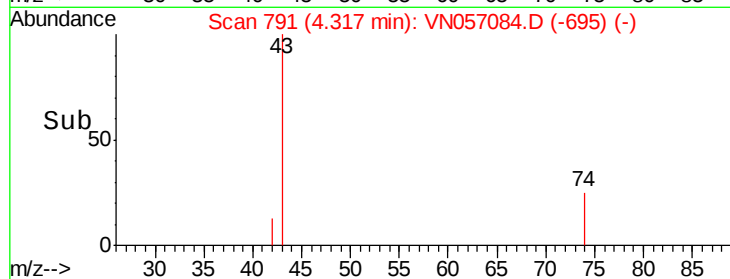
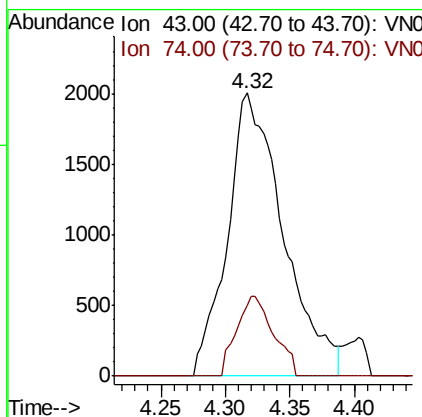
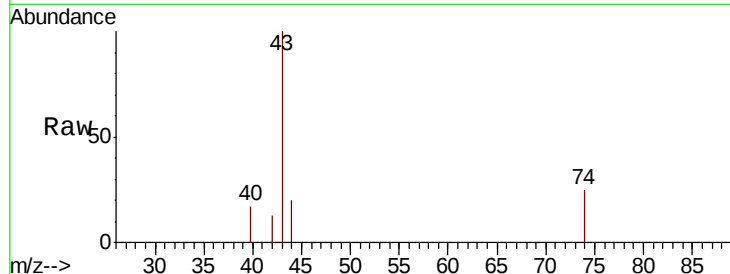




#18
Methyl Acetate
Concen: 0.897 ug/l
RT: 4.32 min Scan# 791
Delta R.T. 0.01 min
Lab File: VN057084.D
Acq: 5 Aug 2019 16:01

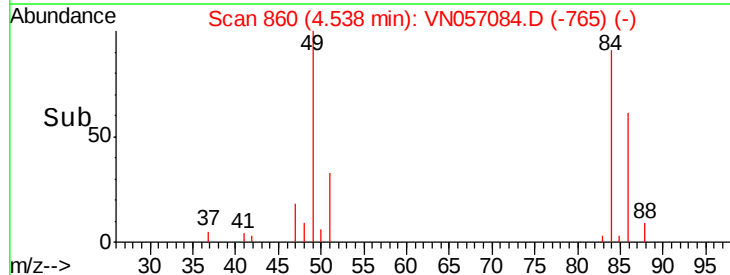
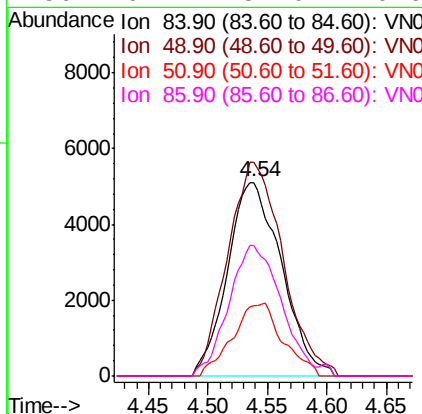
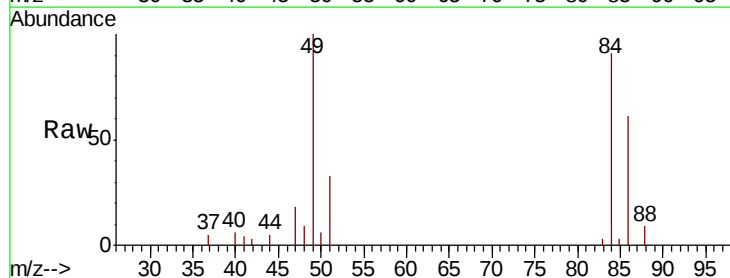
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MSVOA_N
ClientSampleId :

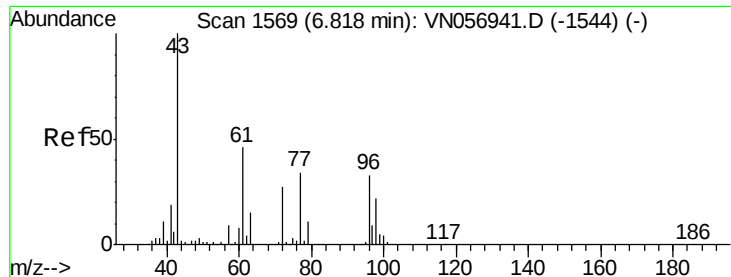
Tot Ion: 43 Resp: 6050
Ion Ratio Lower Upper
43 100
74 18.6 19.7 29.5#



#20
Methylene Chloride
Concen: 2.629 ug/l
RT: 4.54 min Scan# 860
Delta R.T. 0.01 min
Lab File: VN057084.D
Acq: 5 Aug 2019 16:01

Tgt Ion: 84 Resp: 16010
Ion Ratio Lower Upper
84 100
49 110.2 95.2 142.8
51 36.6 29.7 44.5
86 67.2 51.0 76.6

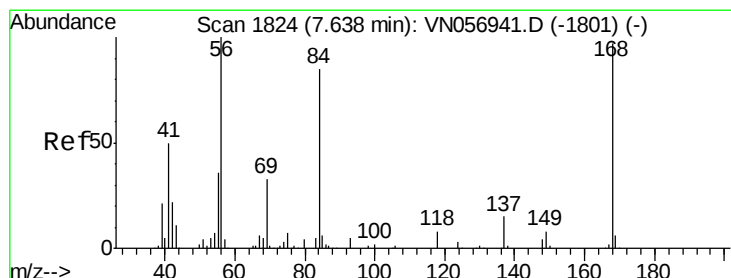
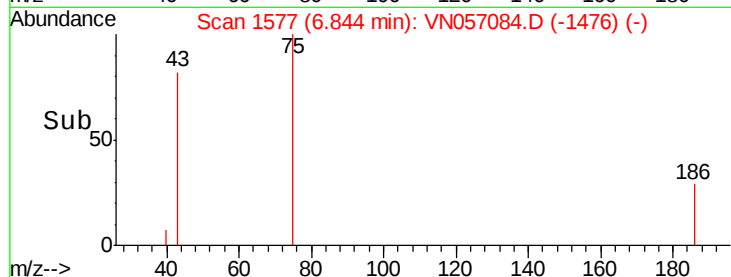
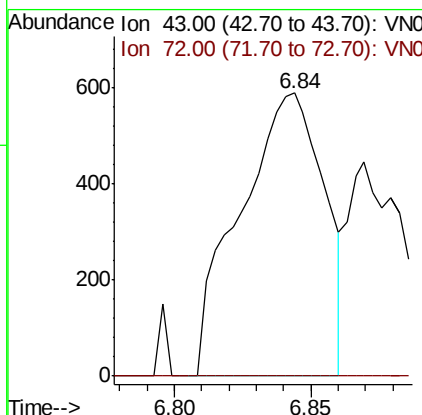
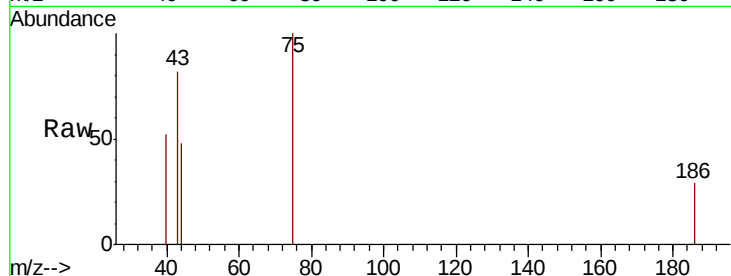




#25
2-Butanone
Concen: 0.420 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.03 min
Lab File: VN057084.D
Acq: 5 Aug 2019 16:01

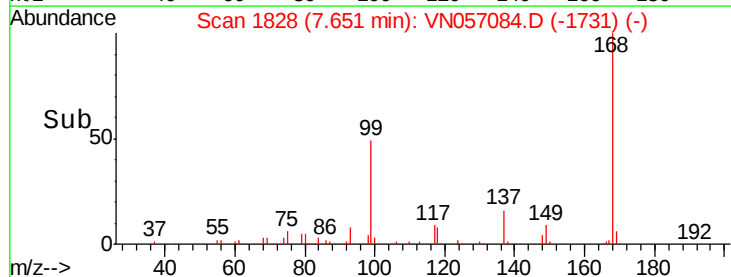
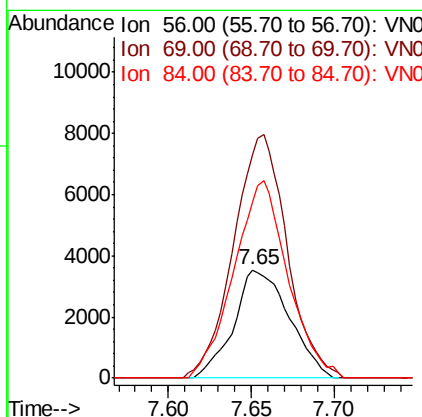
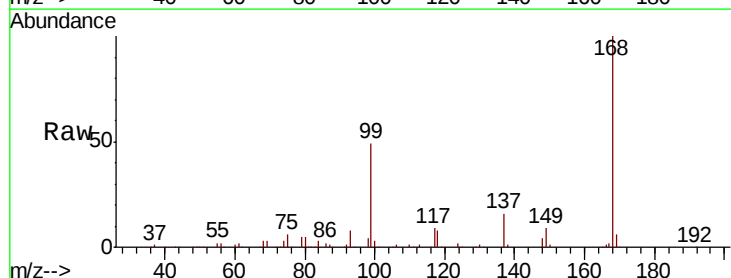
Instrument :
MSVOA_N
ClientSampleId :

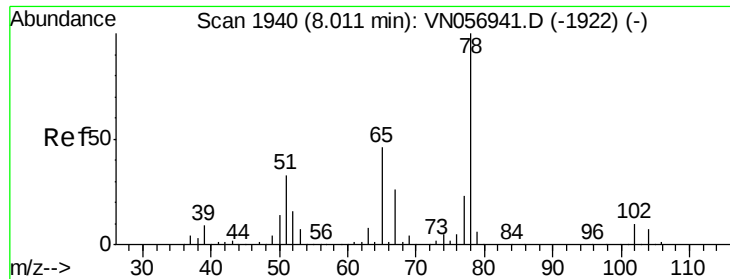
Tot Ion: 43 Resp: 1260
Ion Ratio Lower Upper
43 100
72 0.0 21.5 32.3#



#31
Cyclohexane
Concen: 0.858 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.01 min
Lab File: VN057084.D
Acq: 5 Aug 2019 16:01

Tgt Ion: 56 Resp: 8225
Ion Ratio Lower Upper
56 100
69 200.7 26.2 39.2#
84 162.1 68.2 102.2#

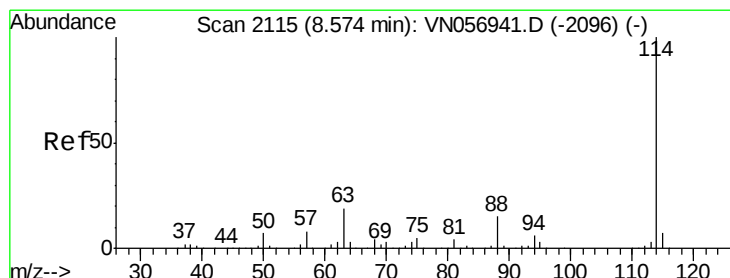
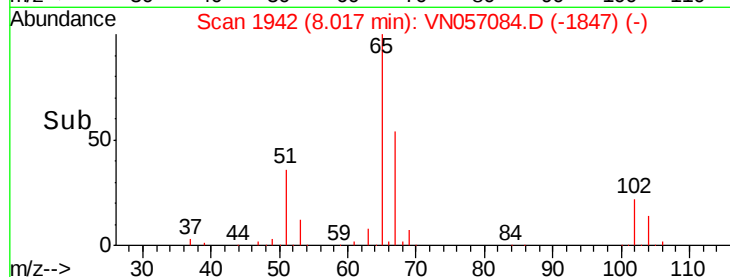
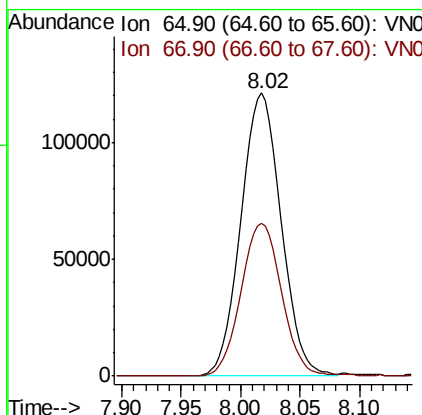
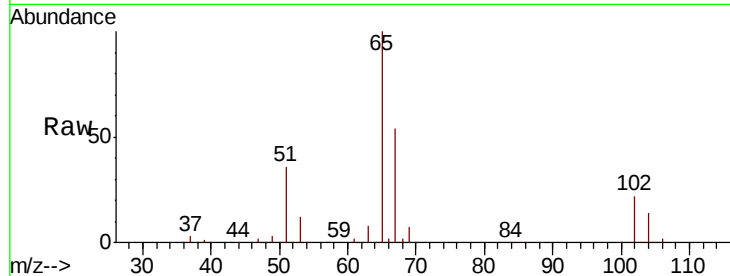




#33
 1,2-Dichloroethane-d4
 Concen: 48.703 ug/l
 RT: 8.02 min Scan# 1942
 Delta R.T. 0.01 min
 Lab File: VN057084.D
 Acq: 5 Aug 2019 16:01

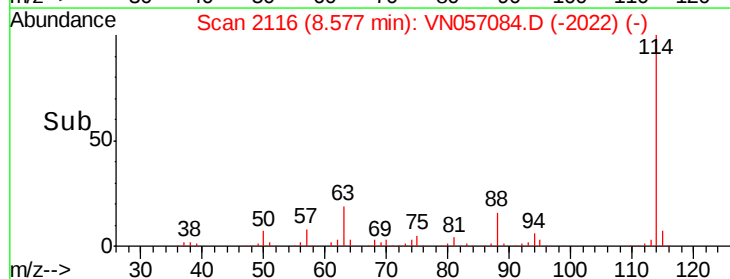
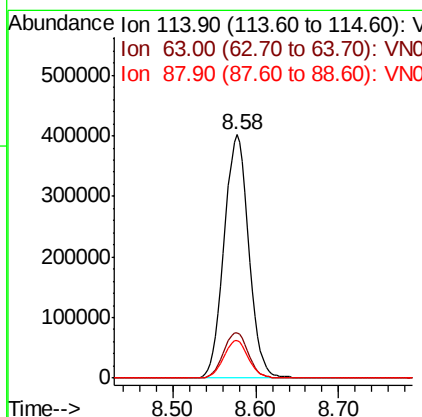
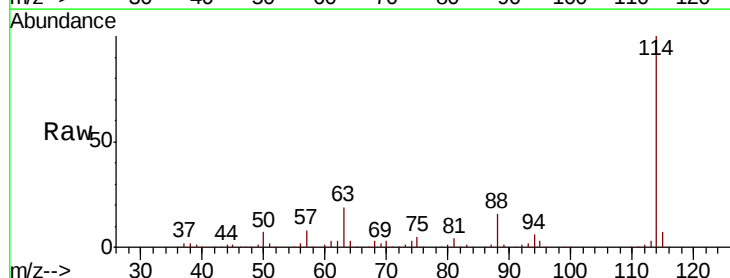
Instrument :
 MSVOA_N
 ClientSampled :

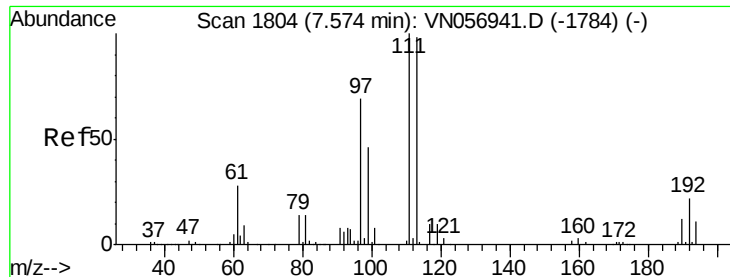
Tot Ion: 65 Resp: 284201
 Ion Ratio Lower Upper
 65 100
 67 54.7 0.0 112.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057084.D
 Acq: 5 Aug 2019 16:01

Tgt Ion: 114 Resp: 833263
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 38.0
 88 15.6 0.0 30.0

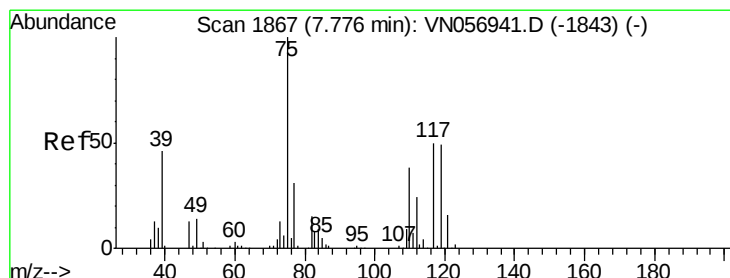
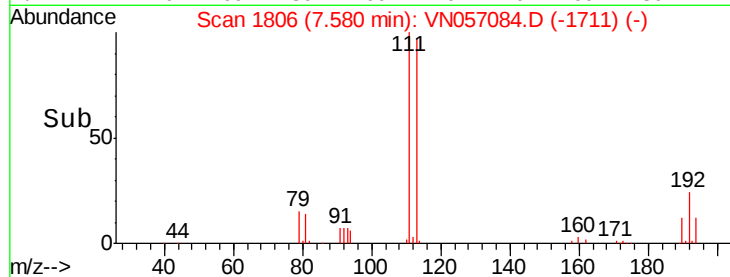
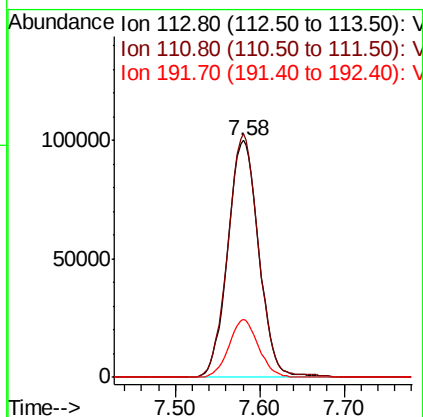
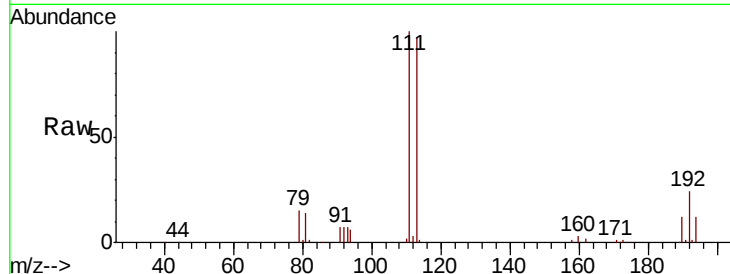




#35
 Dibromofluoromethane
 Concen: 48.044 ug/l
 RT: 7.58 min Scan# 1806
 Delta R.T. 0.01 min
 Lab File: VN057084.D
 Acq: 5 Aug 2019 16:01

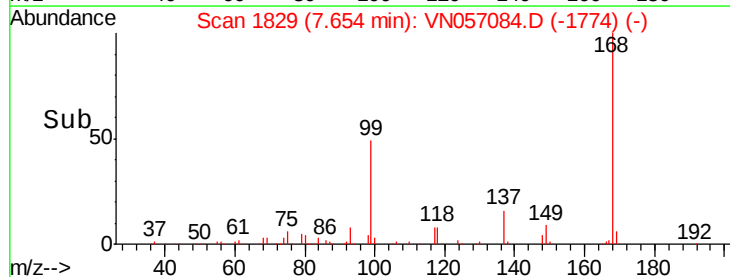
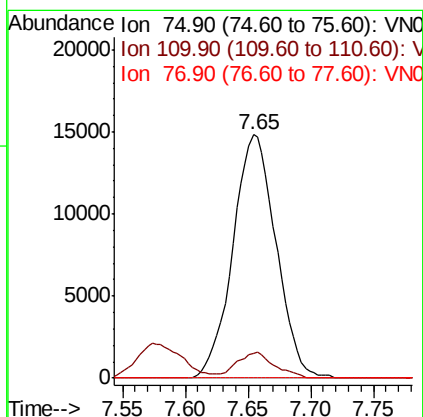
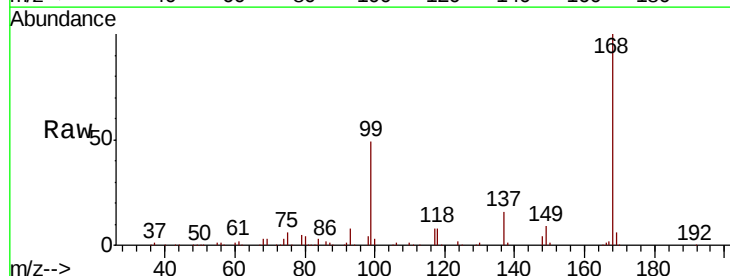
Instrument :
 MSVOA_N
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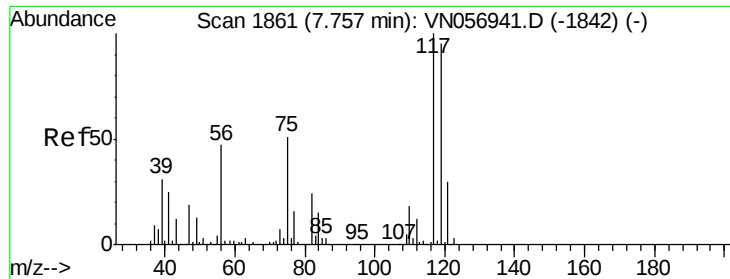
Tot Ion	Ratio	Lower	Upper
113	100		
111	100.1	82.0	123.0
192	23.2	18.4	27.6



#36
 1,1-Dichloropropene
 Concen: 4.837 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN057084.D
 Acq: 5 Aug 2019 16:01

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.5	18.6	55.8#
77	0.0	25.2	37.8#

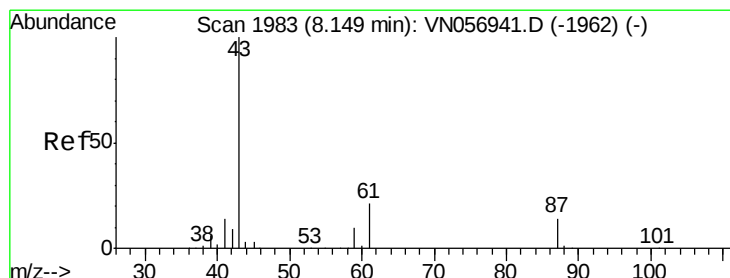
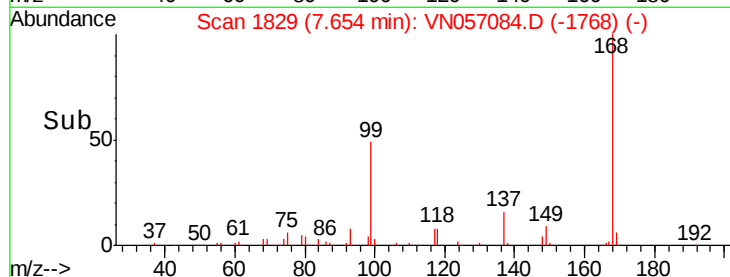
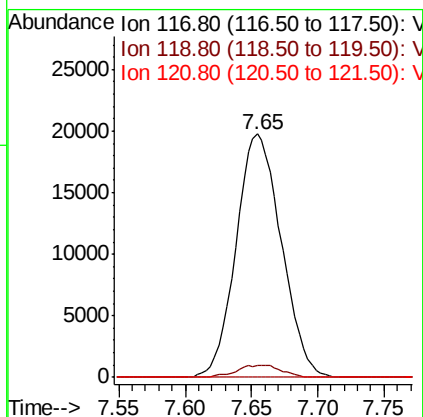
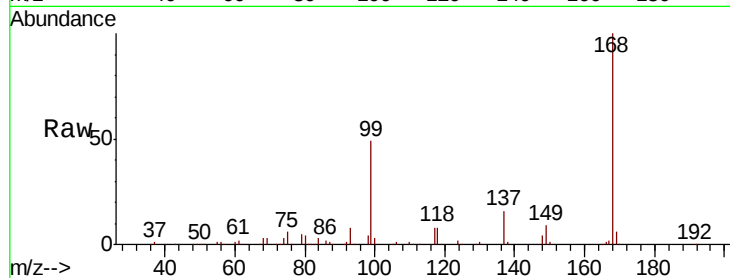




#38
Carbon Tetrachloride
Concen: 6.762 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. -0.10 min
Lab File: VN057084.D
Acq: 5 Aug 2019 16:01

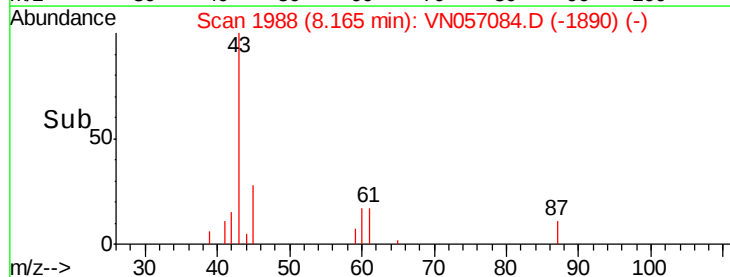
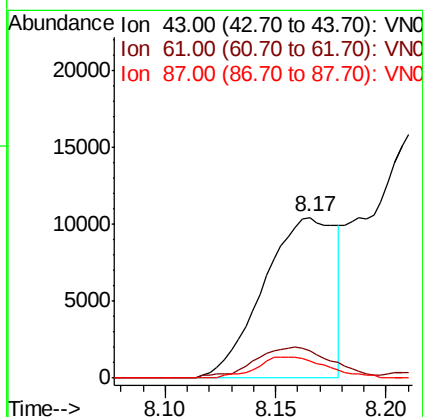
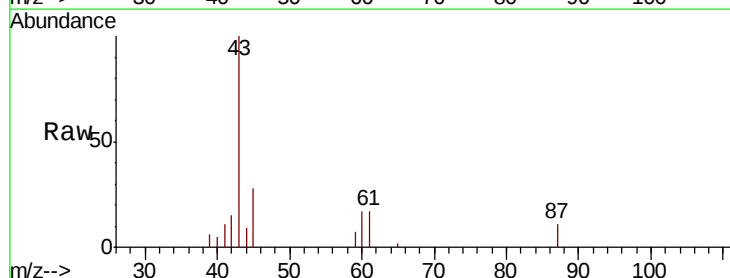
Instrument :
MSVOA_N
ClientSampled :

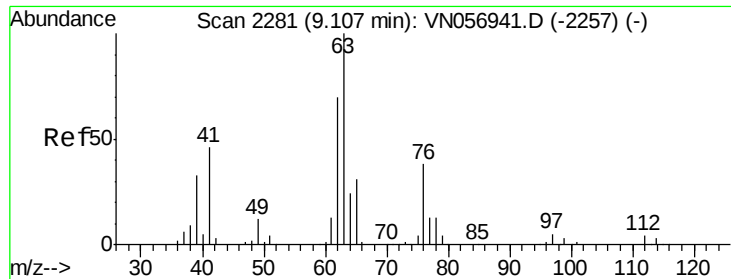
Tot Ion:117 Resp: 46897
Ion Ratio Lower Upper
117 100
119 4.6 75.3 112.9#
121 0.0 24.2 36.4#



#43
Isopropyl Acetate
Concen: 2.434 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.02 min
Lab File: VN057084.D
Acq: 5 Aug 2019 16:01

Tgt Ion: 43 Resp: 23625
Ion Ratio Lower Upper
43 100
61 20.7 23.0 34.6#
87 12.9 11.7 17.5

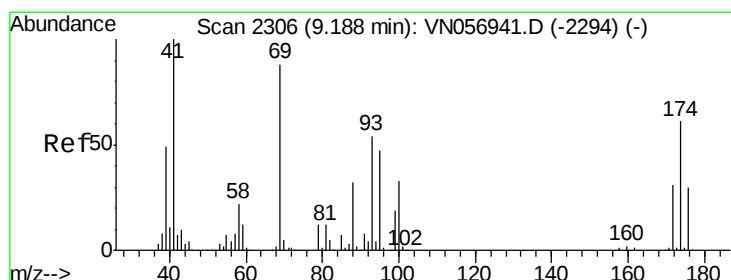
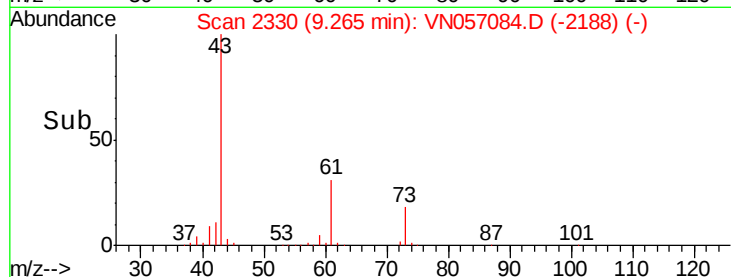
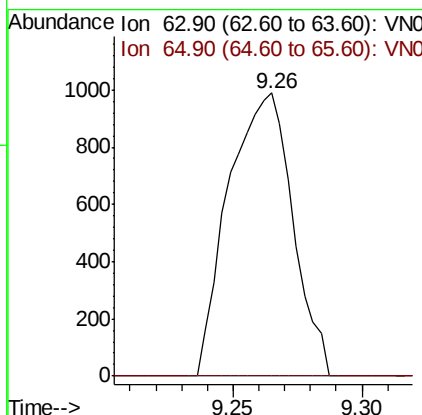
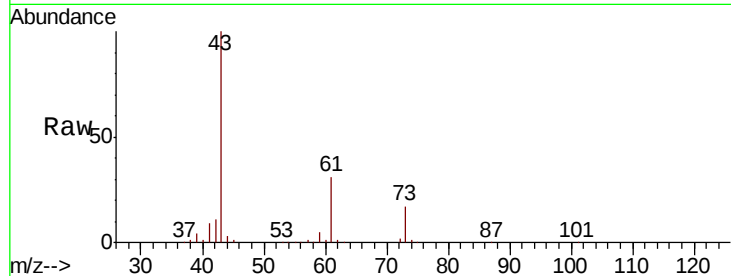




#45
 1,2-Dichloropropane
 Concen: 0.284 ug/l
 RT: 9.26 min Scan# 2330
 Delta R.T. 0.16 min
 Lab File: VN057084.D
 Acq: 5 Aug 2019 16:01

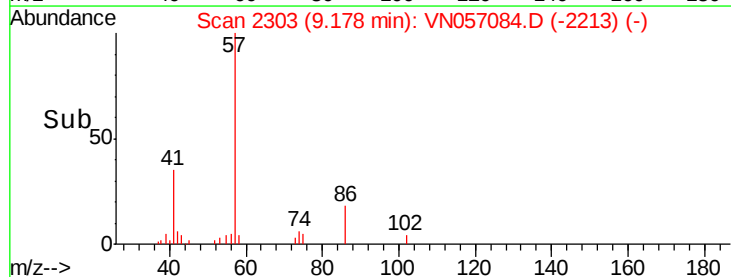
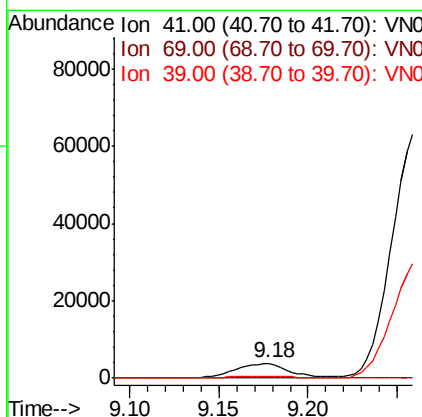
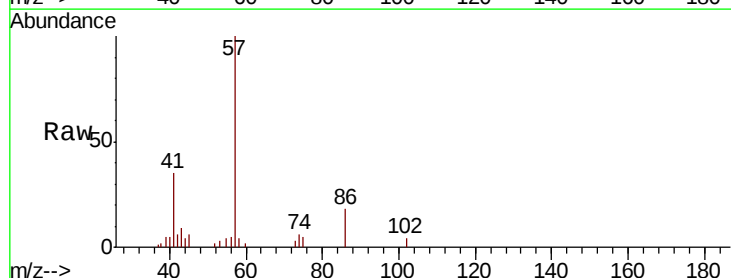
Instrument :
 MSVOA_N
 ClientSampled :

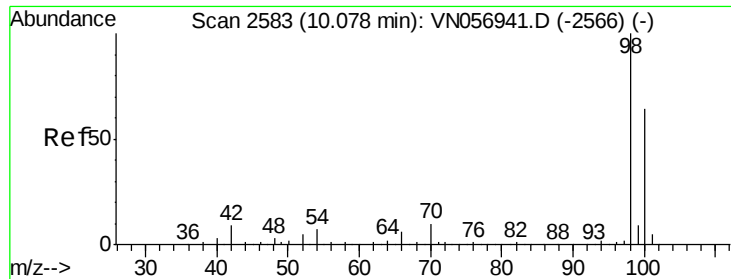
Tot Ion: 63 Resp: 1718
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.8 37.2#



#48
 Methyl methacrylate
 Concen: 1.735 ug/l
 RT: 9.18 min Scan# 2303
 Delta R.T. -0.01 min
 Lab File: VN057084.D
 Acq: 5 Aug 2019 16:01

Tgt Ion: 41 Resp: 8129
 Ion Ratio Lower Upper
 41 100
 69 0.0 73.4 110.0#
 39 0.0 39.9 59.9#

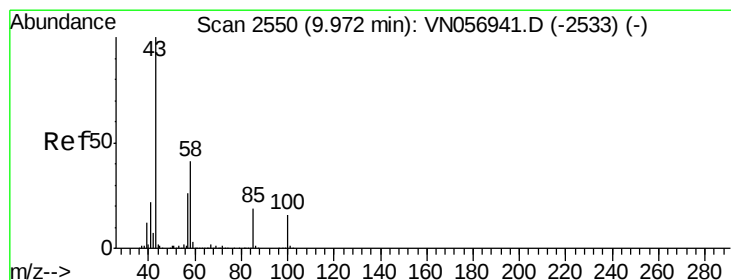
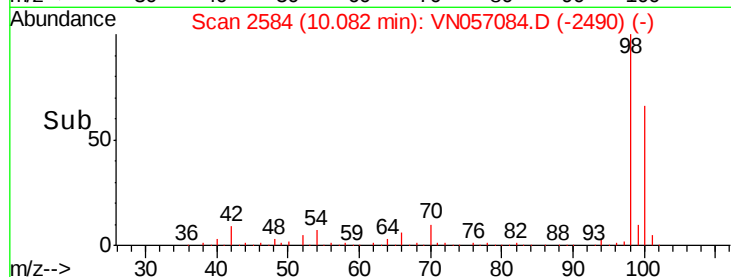
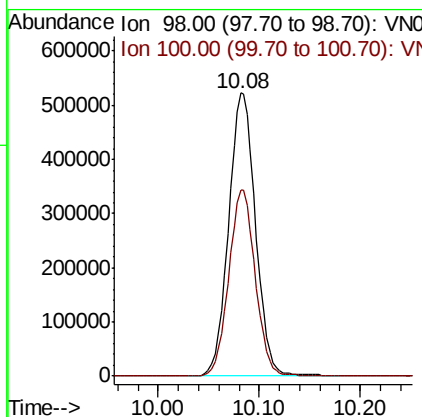
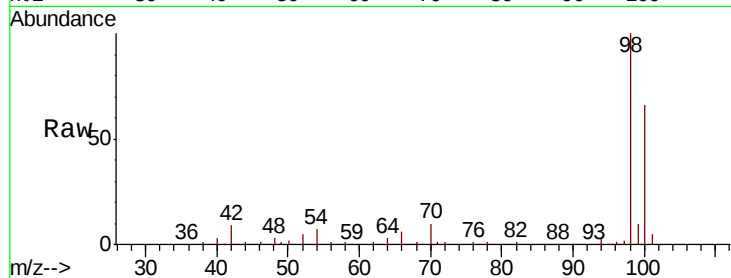




#50
Toluene-d8
Concen: 47.710 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. 0.00 min
Lab File: VN057084.D
Acq: 5 Aug 2019 16:01

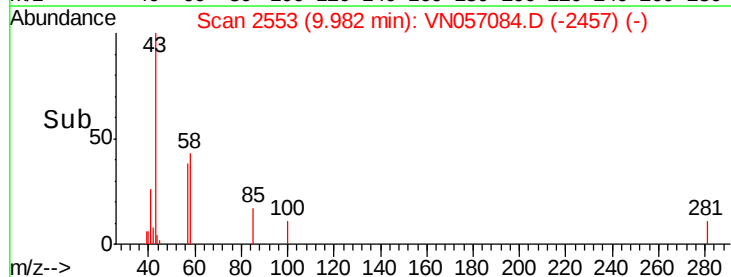
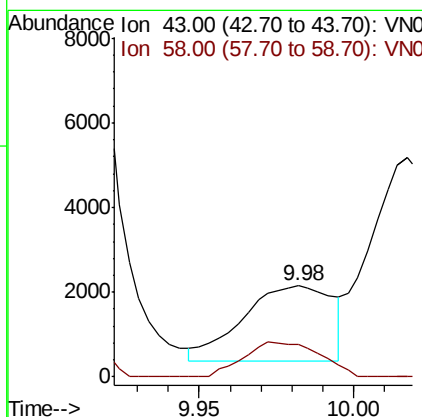
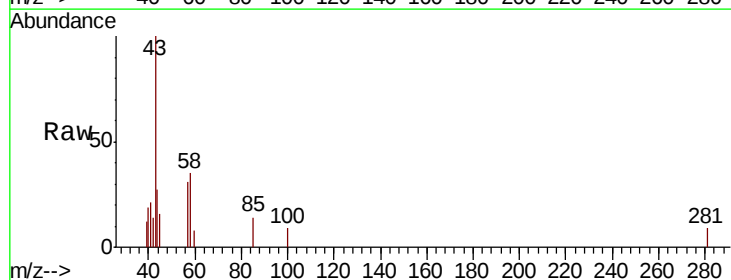
Instrument :
MSVOA_N
ClientSampled :

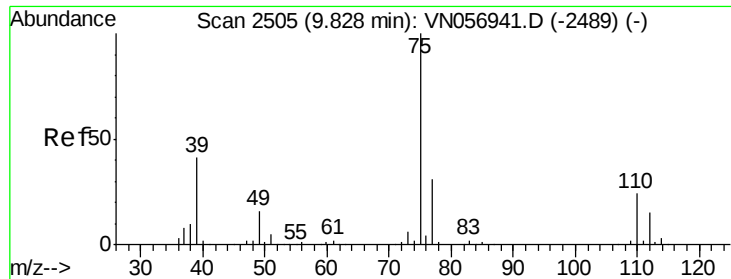
Tot Ion: 98 Resp: 970523
Ion Ratio Lower Upper
98 100
100 65.2 51.3 76.9



#51
4-Methyl-2-Pentanone
Concen: 0.622 ug/l
RT: 9.98 min Scan# 2553
Delta R.T. 0.01 min
Lab File: VN057084.D
Acq: 5 Aug 2019 16:01

Tgt Ion: 43 Resp: 3585
Ion Ratio Lower Upper
43 100
58 39.5 33.1 49.7



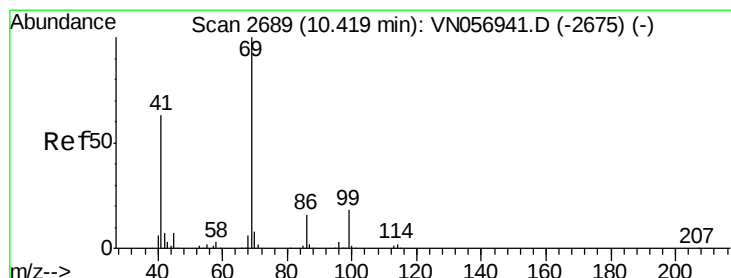
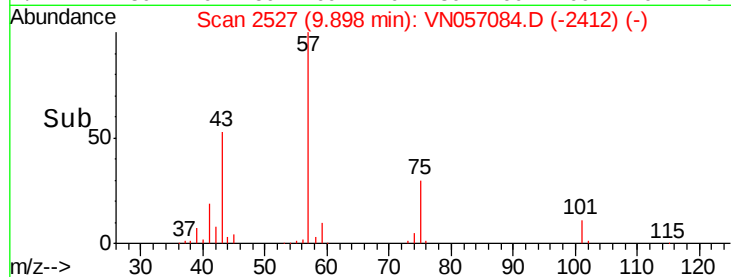
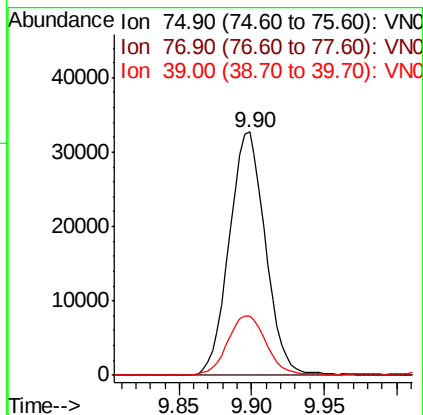
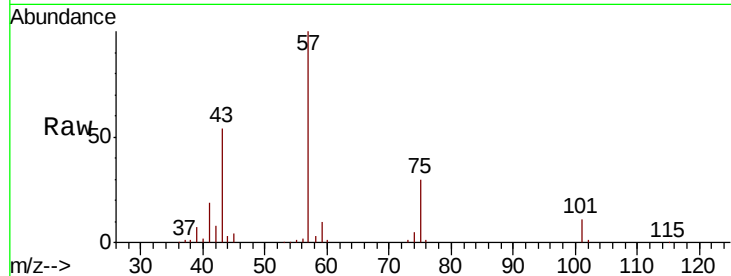


#54

cis-1,3-Dichloropropene
 Concen: 6.550 ug/l
 RT: 9.90 min Scan# 2527
 Delta R.T. 0.07 min
 Lab File: VN057084.D
 Acq: 5 Aug 2019 16:01

Instrument :
 MSVOA_N
 ClientSampleId :

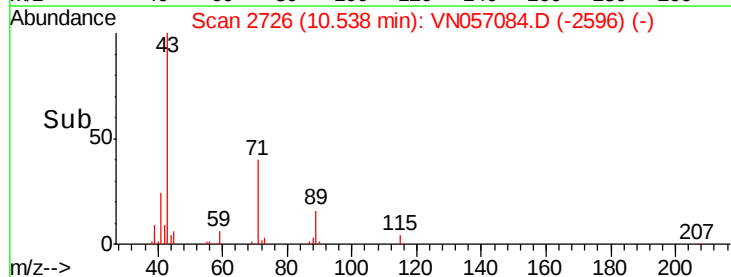
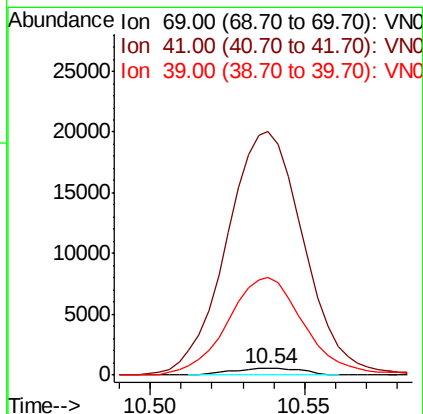
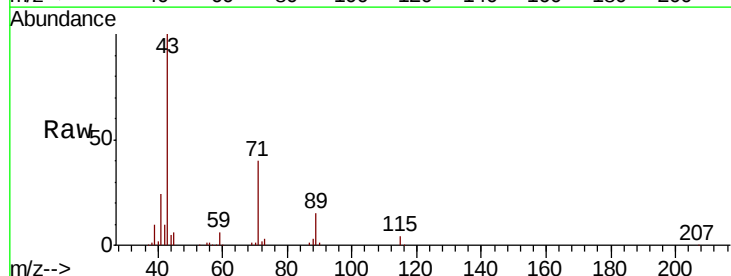
Tot Ion: 75 Resp: 56601
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.6#
 39 24.2 32.6 49.0#

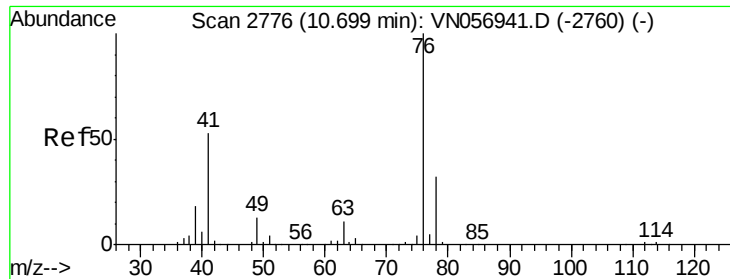


#56

Ethyl methacrylate
 Concen: 1.864 ug/l
 RT: 10.54 min Scan# 2726
 Delta R.T. 0.12 min
 Lab File: VN057084.D
 Acq: 5 Aug 2019 16:01

Tgt Ion: 69 Resp: 877
 Ion Ratio Lower Upper
 69 100
 41 3984.2 49.2 73.8#
 39 1571.2 23.1 34.7#





#57

1,3-Dichloropropane

Concen: 1.250 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.06 min

Lab File: VN057084.D

Acq: 5 Aug 2019 16:01

Instrument :

MSVOA_N

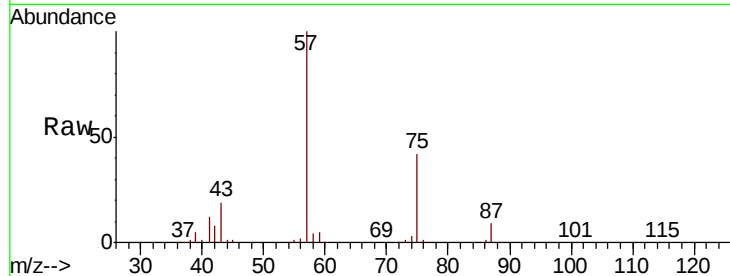
ClientSampleId :

Tot Ion: 76 Resp: 11280

Ion Ratio Lower Upper

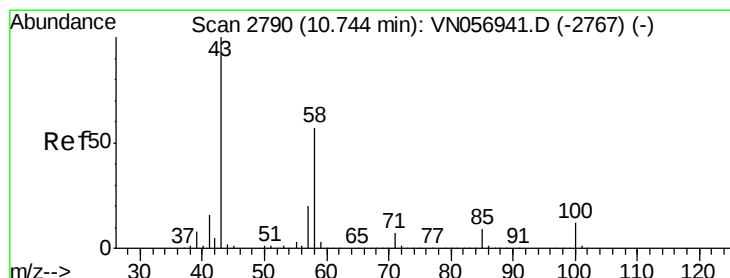
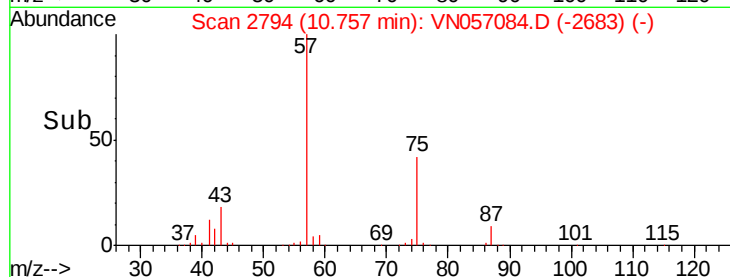
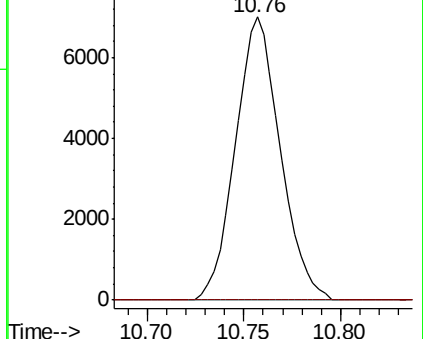
76 100

78 0.0 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 34.604 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.01 min

Lab File: VN057084.D

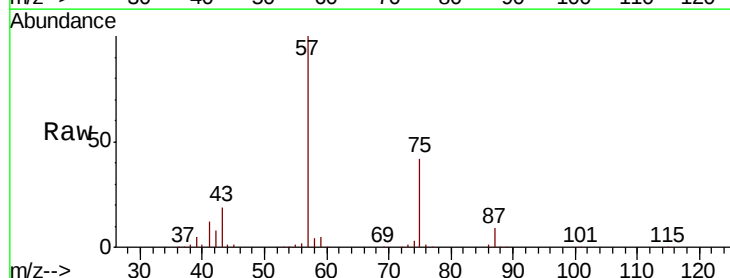
Acq: 5 Aug 2019 16:01

Tgt Ion: 43 Resp: 144018

Ion Ratio Lower Upper

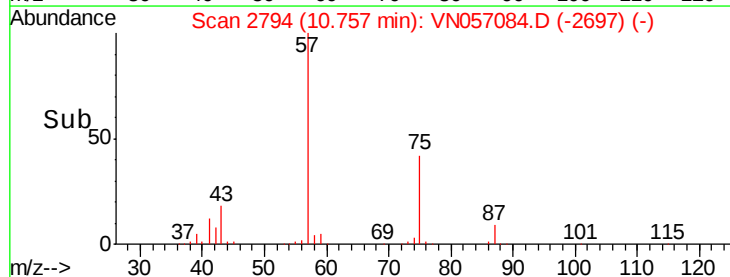
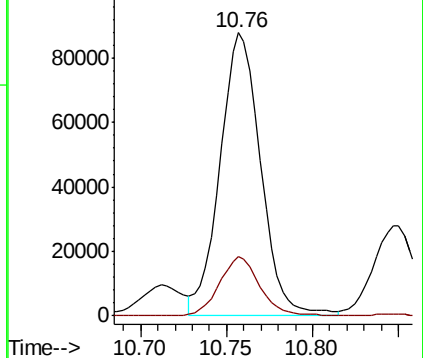
43 100

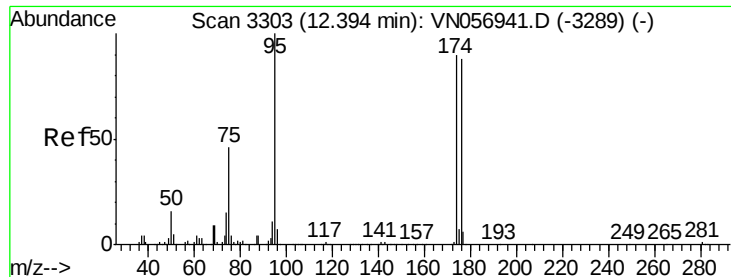
58 20.9 28.5 85.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 39.741 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN057084.D

Acq: 5 Aug 2019 16:01

Instrument :

MSVOA_N

ClientSampleId :

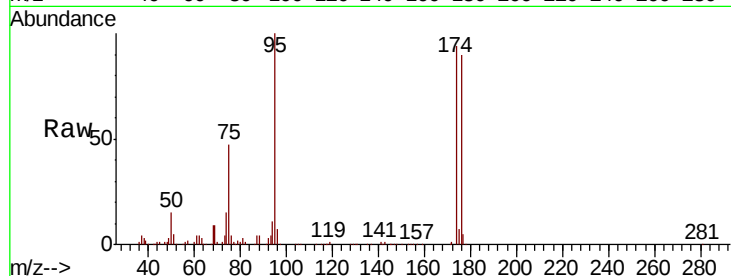
Tot Ion: 95 Resp: 263174

Ion Ratio Lower Upper

95 100

174 95.2 0.0 182.2

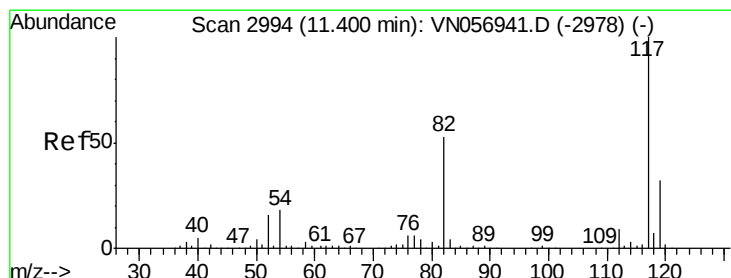
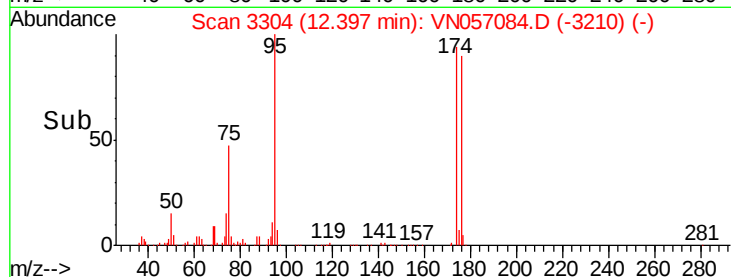
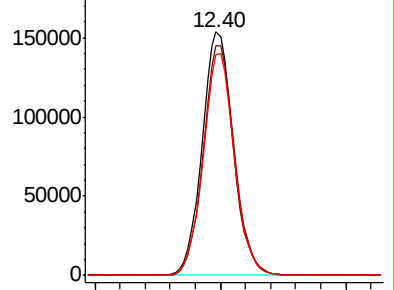
176 91.2 0.0 179.4



Abundance Ion 94.90 (94.60 to 95.60): VN056941.D (-3289) (-)

Ion 173.80 (173.50 to 174.50): VN056941.D (-3289) (-)

Ion 175.80 (175.50 to 176.50): VN056941.D (-3289) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. -0.00 min

Lab File: VN057084.D

Acq: 5 Aug 2019 16:01

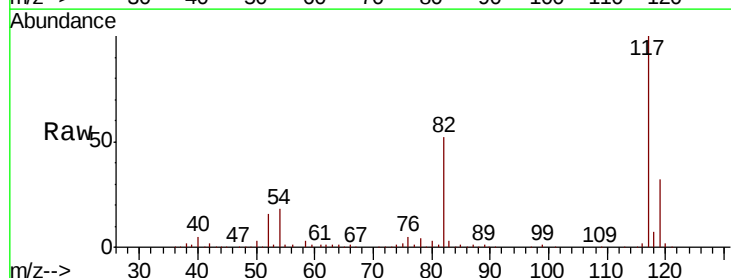
Tgt Ion: 117 Resp: 697066

Ion Ratio Lower Upper

117 100

82 51.9 42.2 63.4

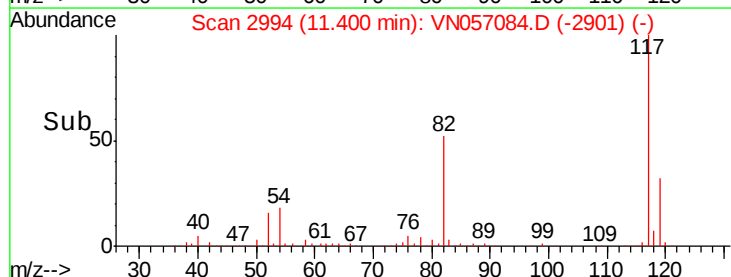
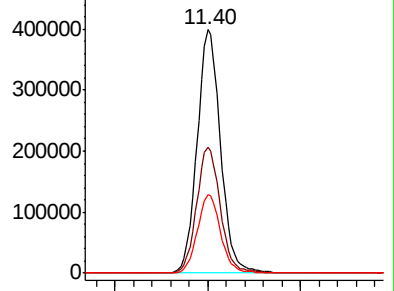
119 32.0 25.8 38.6

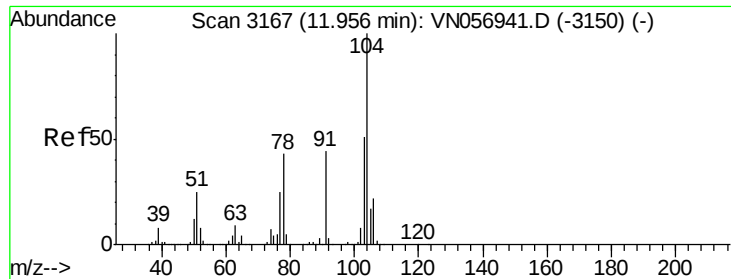


Abundance Ion 116.90 (116.60 to 117.60): VN056941.D (-2978) (-)

Ion 82.00 (81.70 to 82.70): VN056941.D (-2978) (-)

Ion 118.90 (118.60 to 119.60): VN056941.D (-2978) (-)

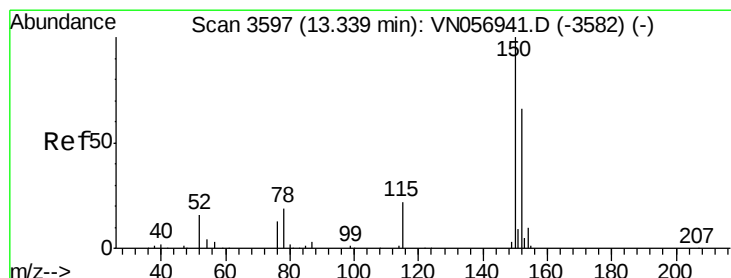
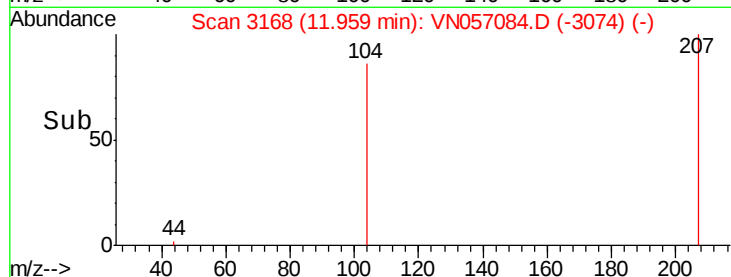
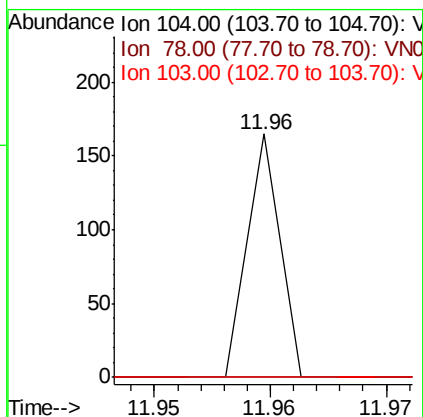
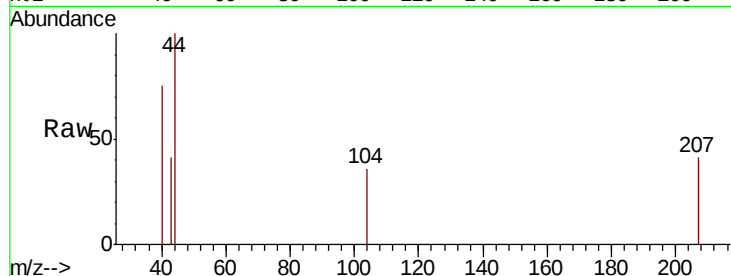




#70
Stvrene
Concen: 1.869 ug/l
RT: 11.96 min Scan# 3168
Delta R.T. 0.00 min
Lab File: VN057084.D
Acq: 5 Aug 2019 16:01

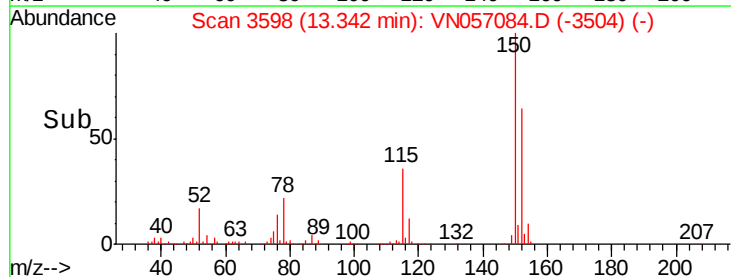
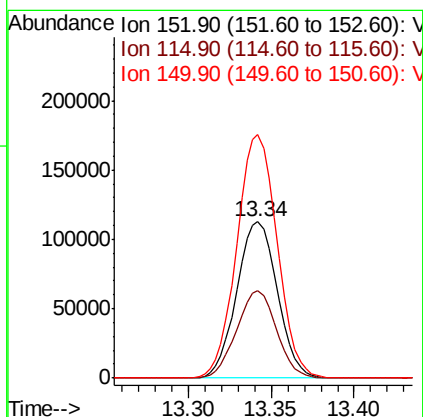
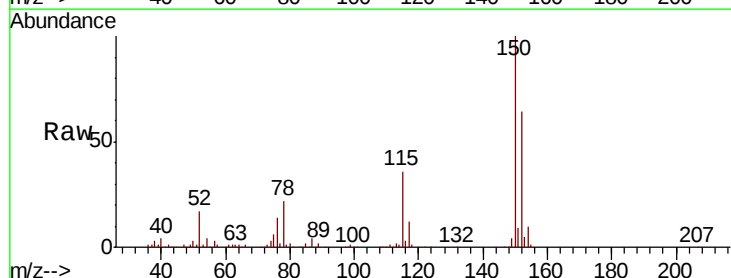
Instrument :
MSVOA_N
ClientSampleId :

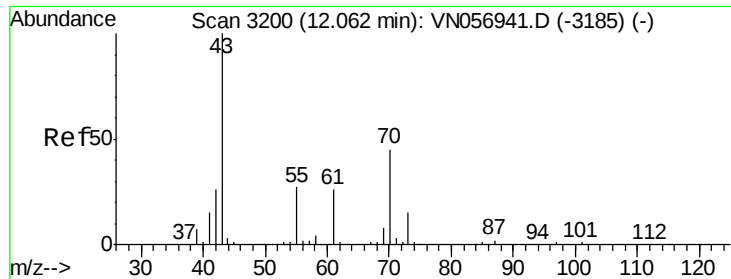
Tot Ion	Ratio	Lower	Upper
104	100		
78	0.0	38.1	57.1#
103	0.0	44.3	66.5#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN057084.D
Acq: 5 Aug 2019 16:01

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.8	28.2	84.6
150	154.3	0.0	349.4





#74

N-amvl acetate

Concen: 2.912 ug/l

RT: 11.87 min Scan# 3141

Delta R.T. -0.19 min

Lab File: VN057084.D

Acq: 5 Aug 2019 16:01

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 14086

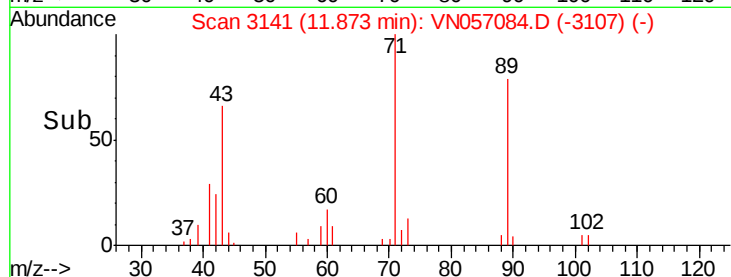
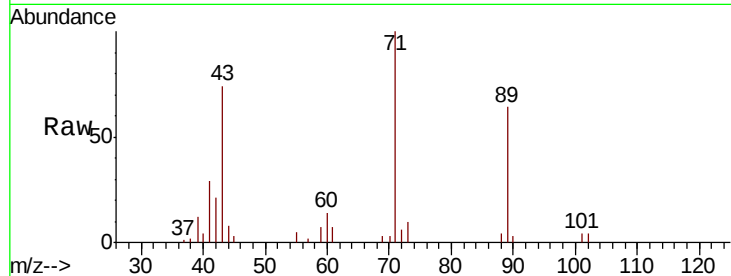
Ion Ratio Lower Upper

43 100

70 2.1 36.5 54.7#

55 5.1 21.4 32.0#

61 9.6 20.5 30.7#

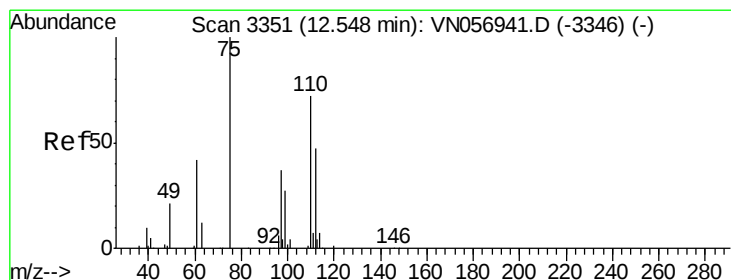
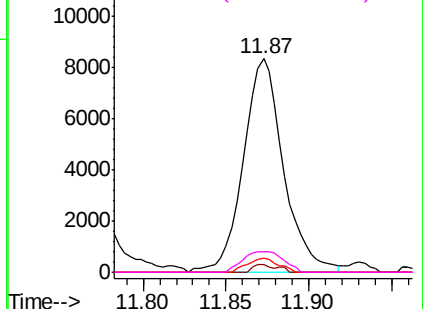


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 31.045 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN057084.D

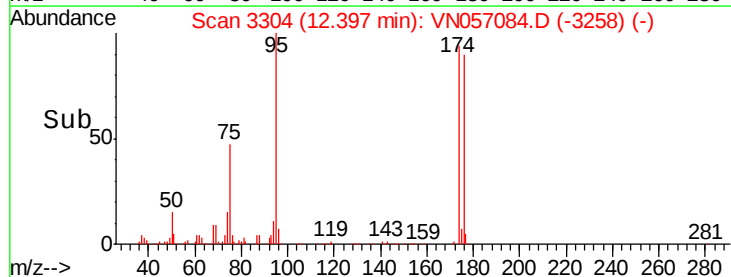
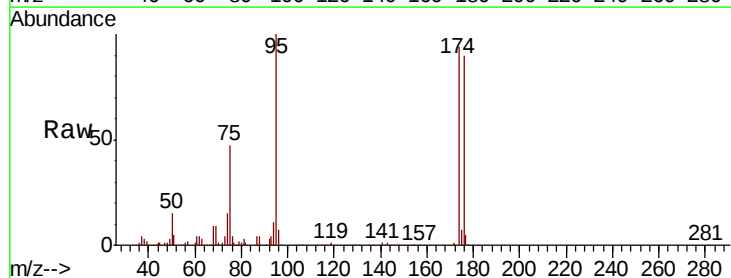
Acq: 5 Aug 2019 16:01

Tgt Ion: 75 Resp: 121520

Ion Ratio Lower Upper

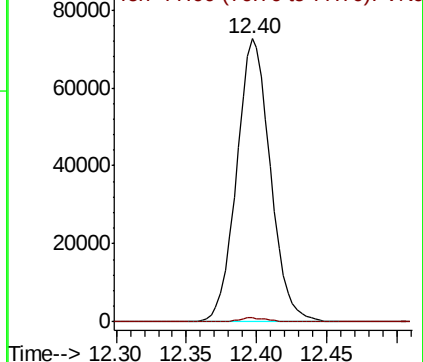
75 100

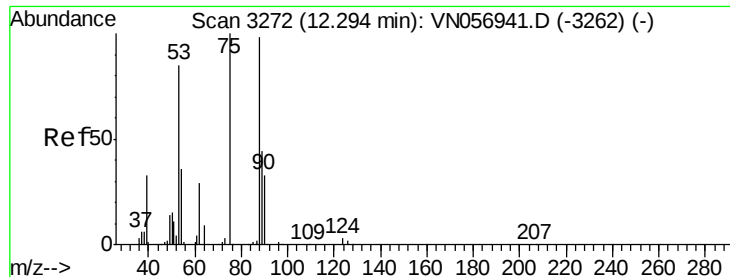
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 99.747 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN057084.D

Acq: 5 Aug 2019 16:01

Instrument :

MSVOA_N

ClientSampled :

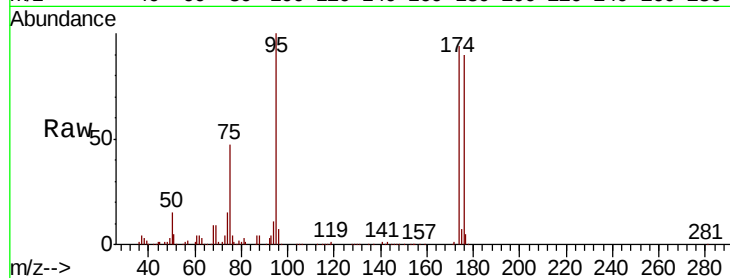
Tot Ion: 75 Resp: 121520

Ion Ratio Lower Upper

75 100

53 0.0 69.3 103.9#

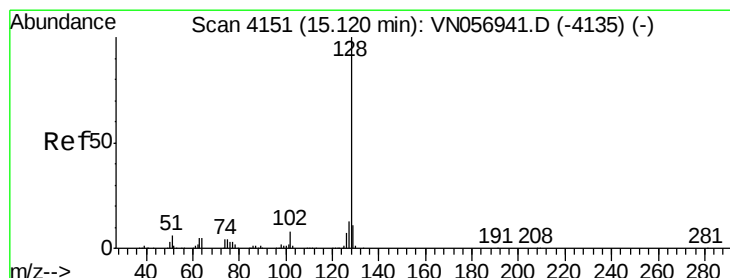
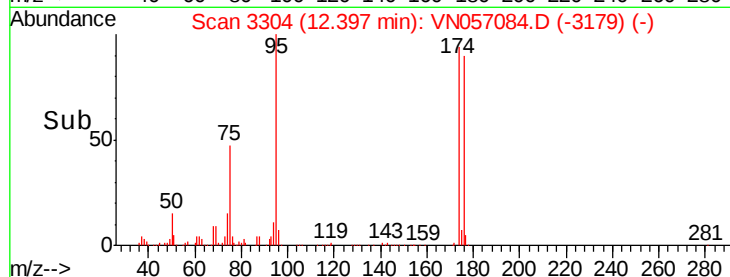
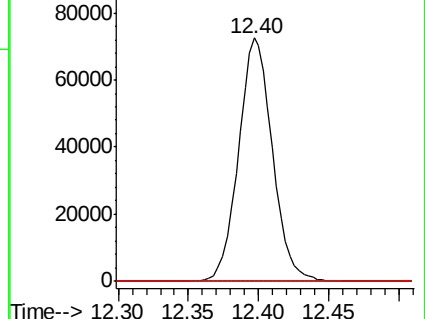
89 0.0 35.8 53.6#



Abundance Ion 74.90 (74.60 to 75.60): VN056941.D (-3262) (-)

Ion 53.00 (52.70 to 53.70): VN056941.D (-3262) (-)

Ion 88.90 (88.60 to 89.60): VN056941.D (-3262) (-)



#95

Naphthalene

Concen: 3.625 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. 0.01 min

Lab File: VN057084.D

Acq: 5 Aug 2019 16:01

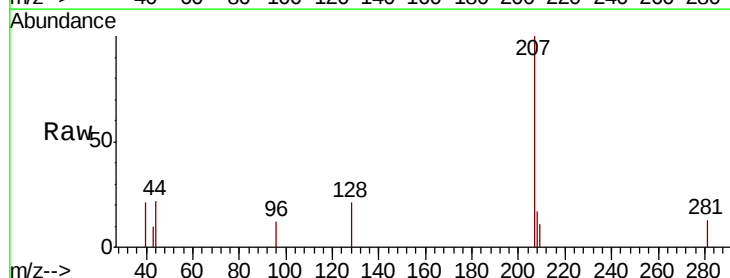
Tgt Ion: 128 Resp: 327

Ion Ratio Lower Upper

128 100

127 0.0 10.0 15.0#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): VN056941.D (-4135) (-)

Ion 127.00 (126.70 to 127.70): VN056941.D (-4135) (-)

Ion 129.00 (128.70 to 129.70): VN056941.D (-4135) (-)

