

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081518\
 Data File : VN050661.D
 Acq On : 15 Aug 2018 17:42
 Operator : MD\SY
 Sample : PB1112055ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB1112055ZHE#01

Quant Time: Aug 16 01:31:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 08:07:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	595999	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1005639	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	856178	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	294257	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	418737	55.74	ug/l	0.00
Spiked Amount			Recovery	=	111.48%	
35) Dibromofluoromethane	7.59	113	387811	48.30	ug/l	0.00
Spiked Amount			Recovery	=	96.60%	
50) Toluene-d8	10.09	98	1357463	44.93	ug/l	0.00
Spiked Amount			Recovery	=	89.86%	
62) 4-Bromofluorobenzene	12.40	95	374031	37.47	ug/l	0.00
Spiked Amount			Recovery	=	74.94%	

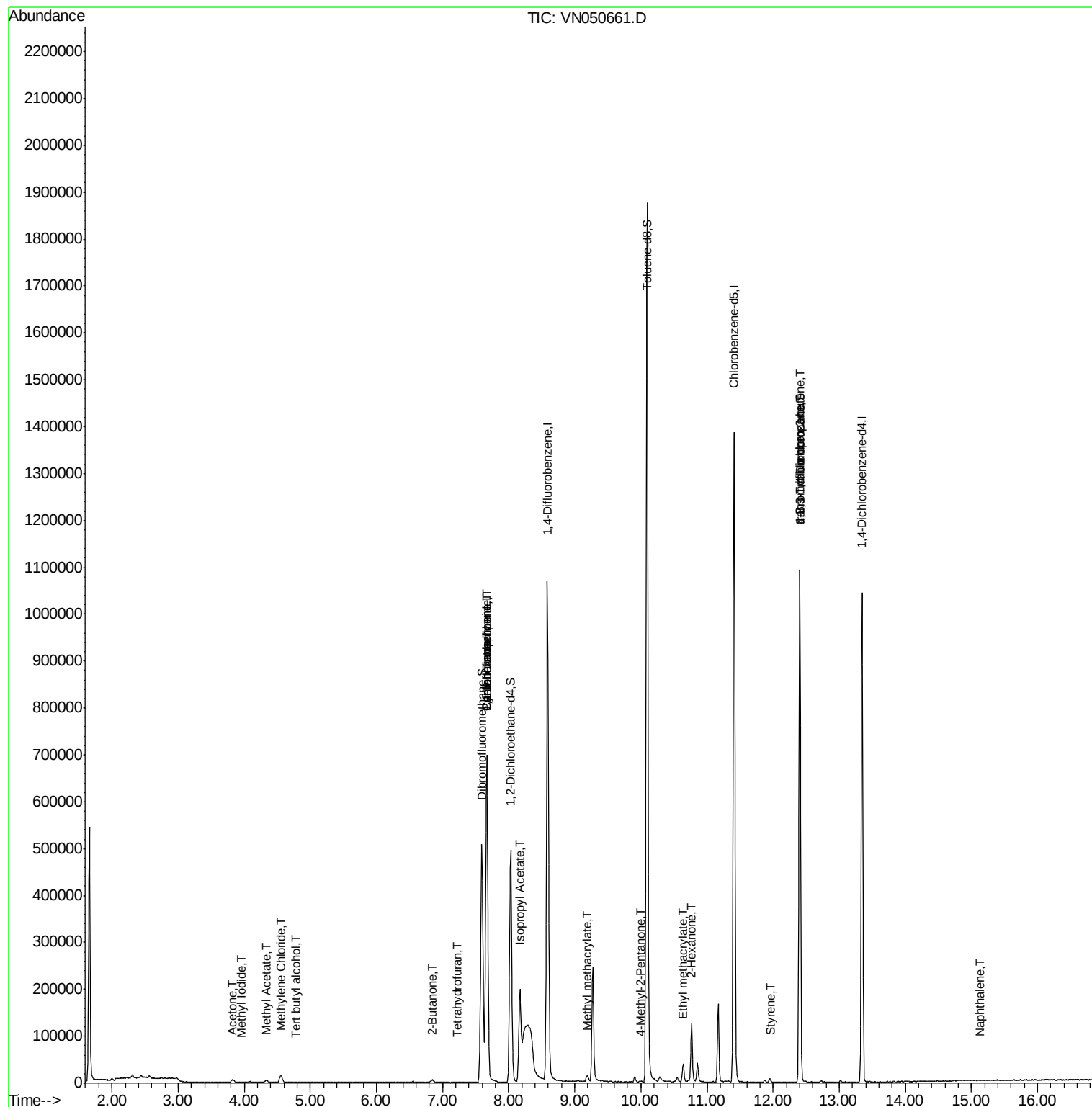
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2213	Below Cal	#	86
5) Bromomethane	2.57	94	2902	Below Cal		86
6) Chloroethane	2.68	64	170	Below Cal	#	43
10) Methyl Iodide	3.96	142	399	7.02	ug/l	# 70
11) Tert butyl alcohol	4.79	59	197	0.48	ug/l	# 72
16) Acetone	3.83	43	11276	4.59	ug/l	95
18) Methyl Acetate	4.34	43	10016	0.92	ug/l	# 67
20) Methylene Chloride	4.56	84	12186	0.45	ug/l	94
25) 2-Butanone	6.85	43	6750	2.19	ug/l	99
29) Tetrahydrofuran	7.23	42	828	0.51	ug/l	# 47
31) Cyclohexane	7.67	56	10272	0.56	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	41295	3.69	ug/l	# 48
38) Carbon Tetrachloride	7.67	117	53034	4.57	ug/l	# 16
43) Isopropyl Acetate	8.17	43	247998	21.51	ug/l	96
48) Methyl methacrylate	9.18	41	7209	1.24	ug/l	# 18
51) 4-Methyl-2-Pentanone	9.98	43	1563	0.20	ug/l	# 35
56) Ethyl methacrylate	10.64	69	709	1.98	ug/l	# 1
59) 2-Hexanone	10.77	43	18426	3.66	ug/l	64
70) Styrene	11.97	104	31	0.94	ug/l	# 26
75) 1,1,2,2-Tetrachloroethane	12.42	83	107	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	174990	36.53	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	174990	132.21	ug/l	# 13
95) Naphthalene	15.13	128	65	3.87	ug/l	# 69

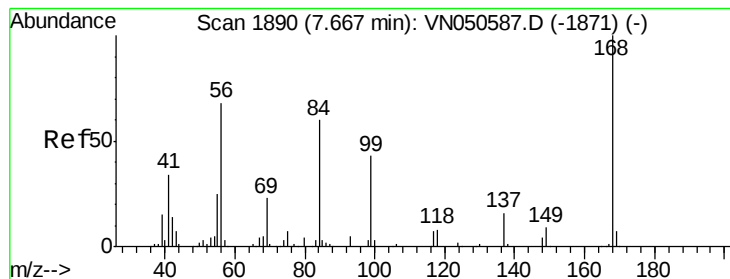
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Aug 14 08:07:08 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050661.D

Acq: 15 Aug 2018 17:42

Instrument :

MSVOA_N

ClientSampleId :

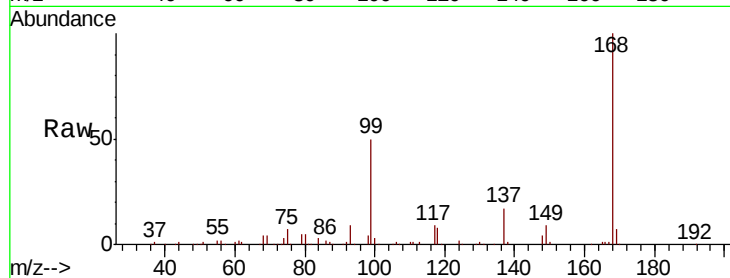
PB1112055ZHE#01

Tot Ion:168 Resp: 595999

Ion Ratio Lower Upper

168 100

99 50.2 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

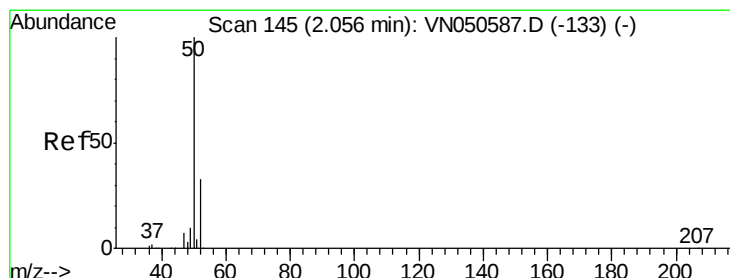
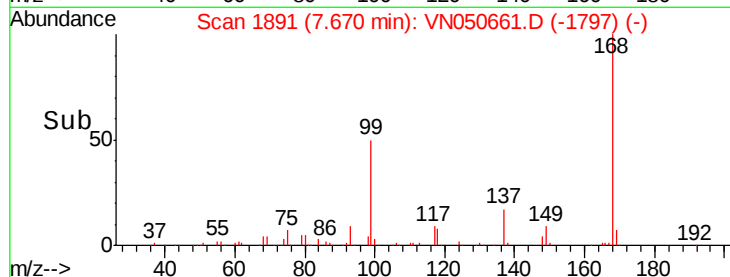
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050661.D

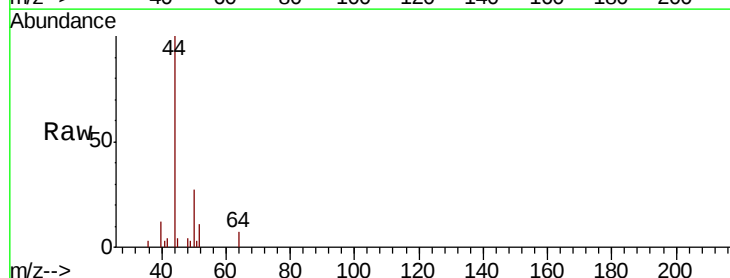
Acq: 15 Aug 2018 17:42

Tgt Ion: 50 Resp: 2213

Ion Ratio Lower Upper

50 100

52 40.5 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.06

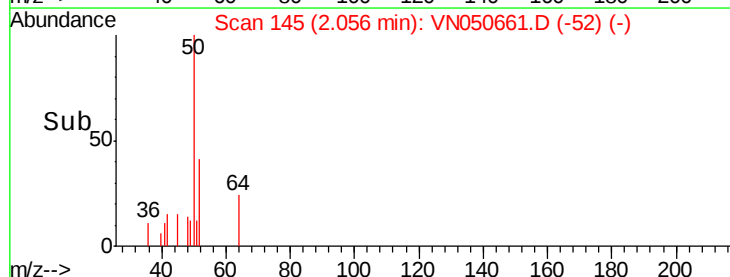
1500

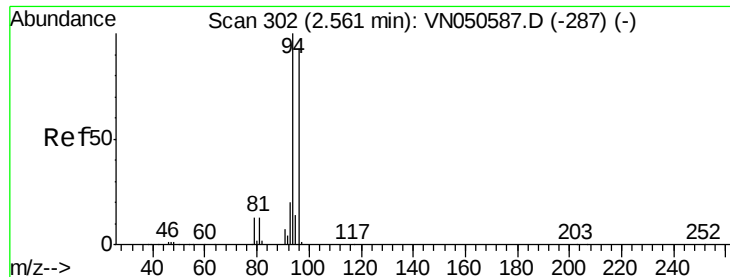
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 306

Delta R.T. 0.01 min

Lab File: VN050661.D

Acq: 15 Aug 2018 17:42

Instrument :

MSVOA_N

ClientSampleId :

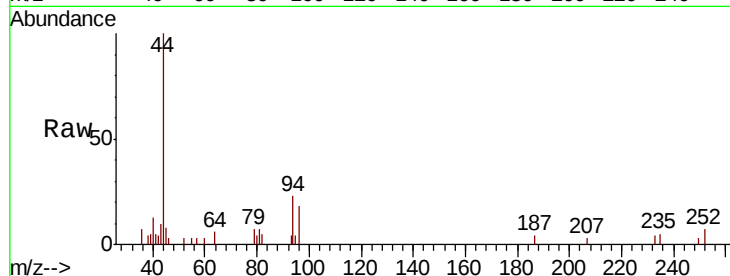
PB1112055ZHE#01

Tot Ion: 94 Resp: 2902

Ion Ratio Lower Upper

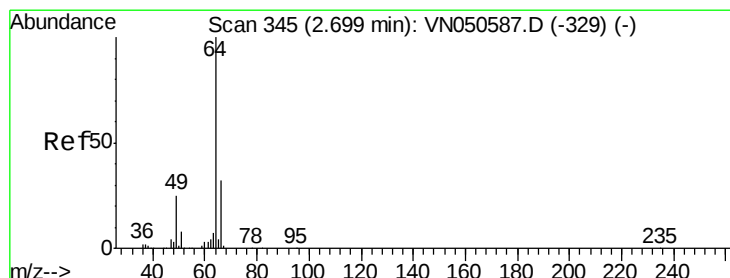
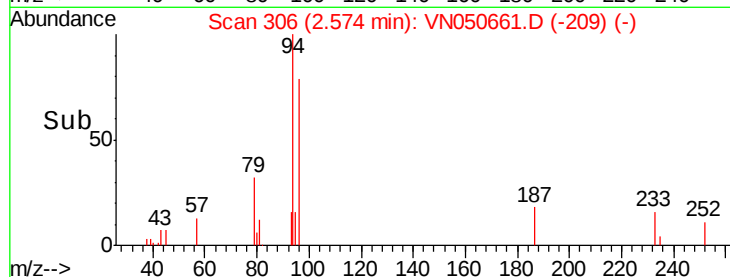
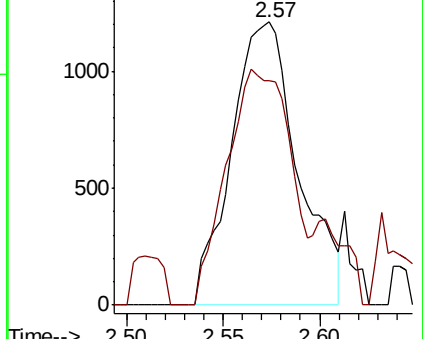
94 100

96 79.2 74.0 111.0



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: Below Cal

RT: 2.68 min Scan# 340

Delta R.T. -0.02 min

Lab File: VN050661.D

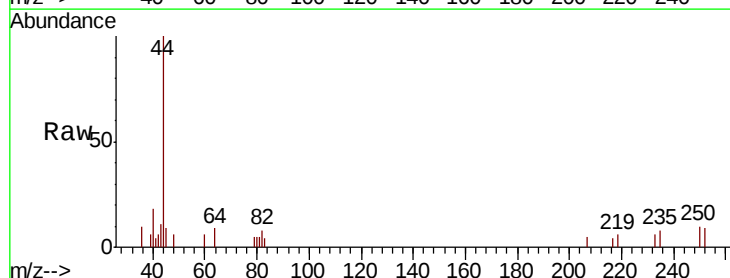
Acq: 15 Aug 2018 17:42

Tgt Ion: 64 Resp: 170

Ion Ratio Lower Upper

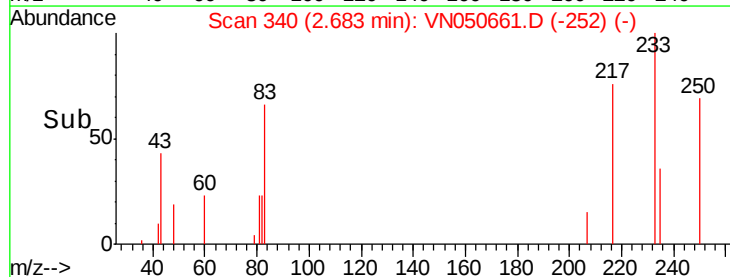
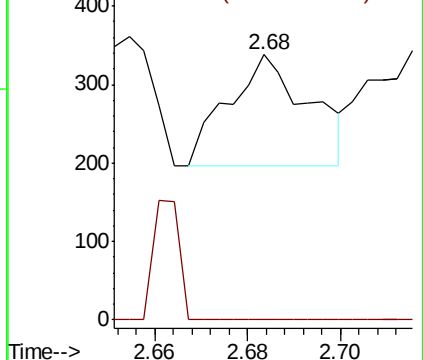
64 100

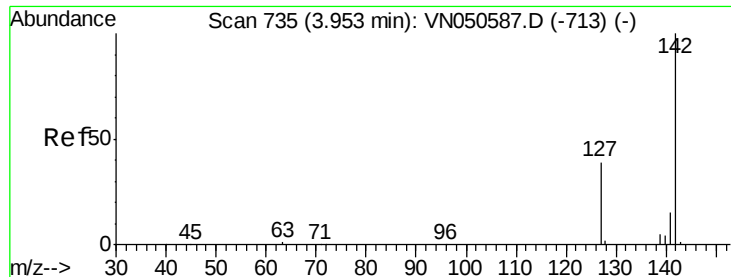
66 0.0 25.7 38.5#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

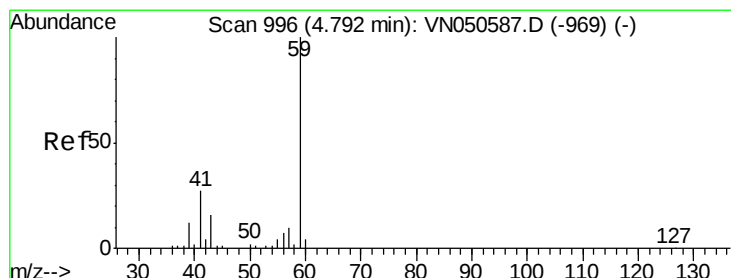
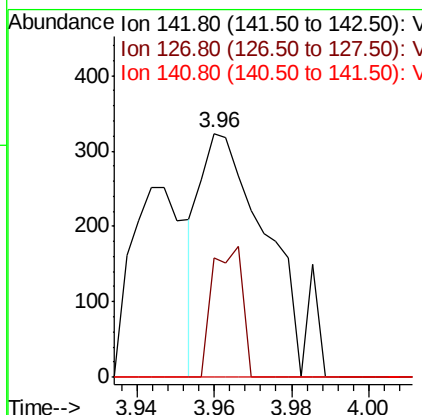
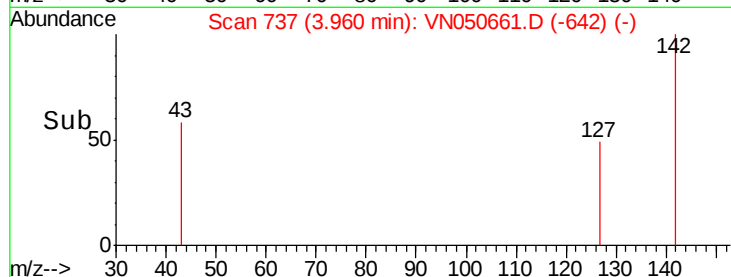
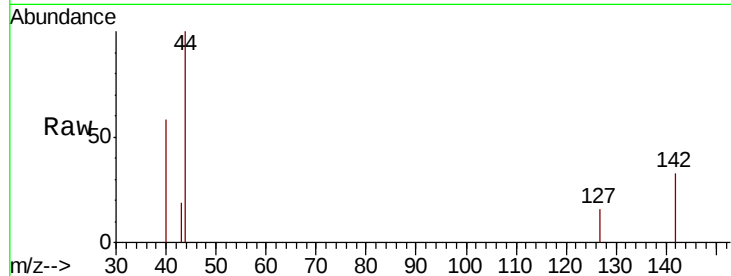




#10
Methvl Iodide
Concen: 7.02 ug/l
RT: 3.96 min Scan# 737
Delta R.T. 0.01 min
Lab File: VN050661.D
Acq: 15 Aug 2018 17:42

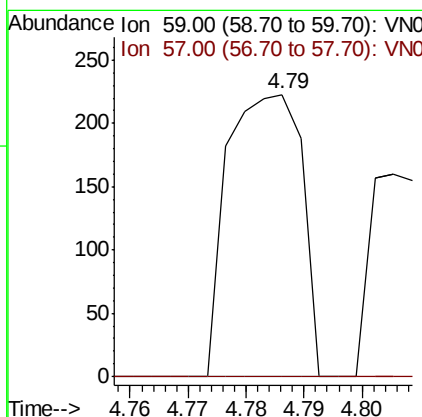
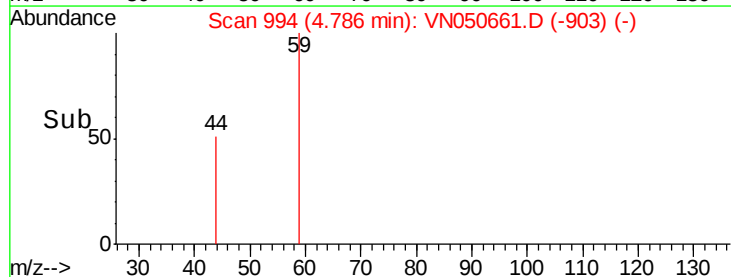
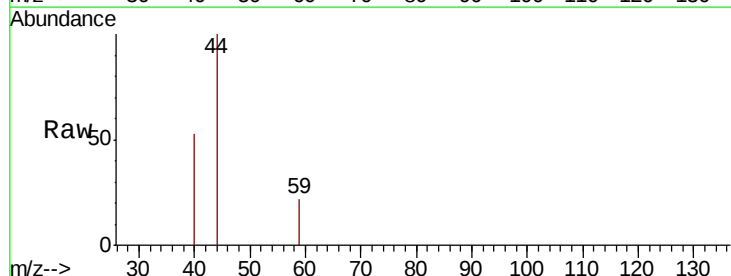
Instrument :
MSVOA_N
ClientSampleId :
PB1112055ZHE#01

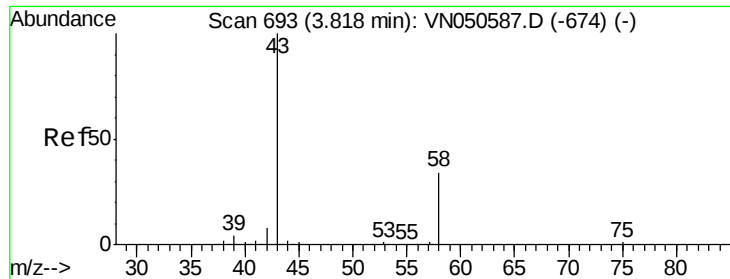
Tot Ion:142 Resp: 399
Ion Ratio Lower Upper
142 100
127 23.6 32.6 49.0#
141 0.0 11.5 17.3#



#11
Tert butyl alcohol
Concen: 0.48 ug/l
RT: 4.79 min Scan# 994
Delta R.T. -0.01 min
Lab File: VN050661.D
Acq: 15 Aug 2018 17:42

Tgt Ion: 59 Resp: 197
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#





#16

Acetone

Concen: 4.59 ug/l

RT: 3.83 min Scan# 697

Delta R.T. 0.01 min

Lab File: VN050661.D

Acq: 15 Aug 2018 17:42

Instrument :

MSVOA_N

ClientSampleId :

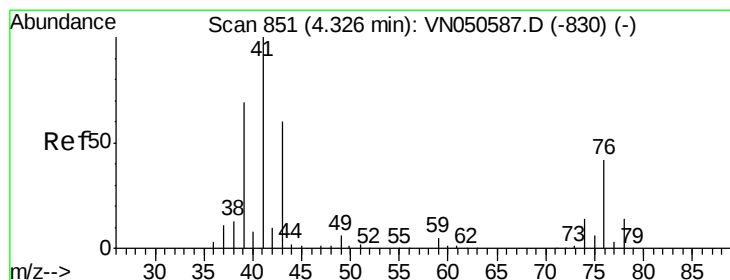
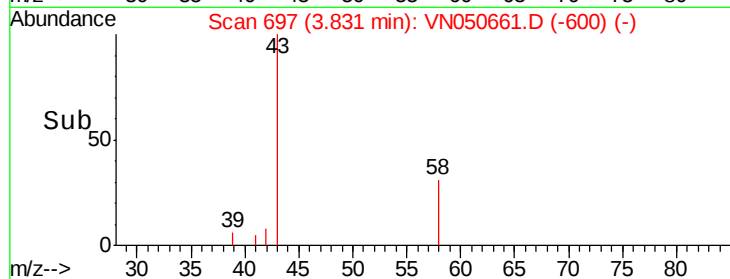
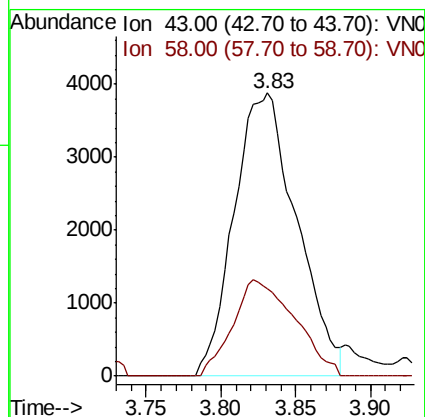
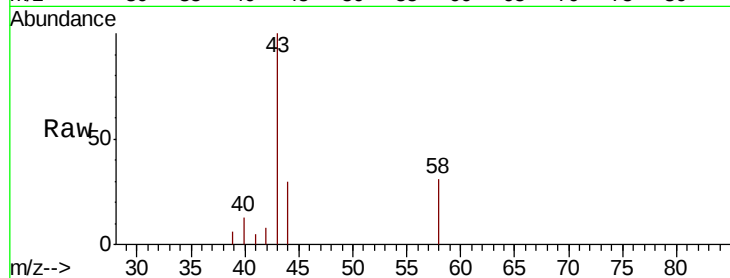
PB1112055ZHE#01

Tot Ion: 43 Resp: 11276

Ion Ratio Lower Upper

43 100

58 31.1 27.1 40.7



#18

Methyl Acetate

Concen: 0.92 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.01 min

Lab File: VN050661.D

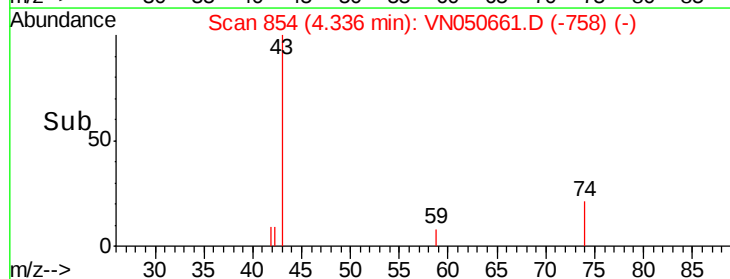
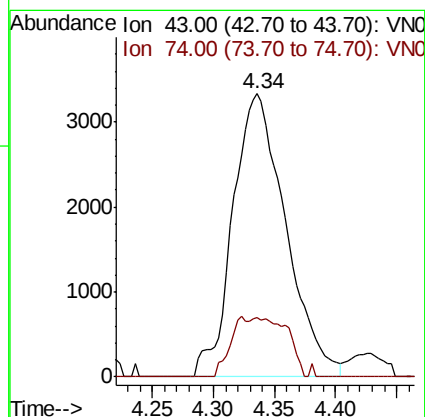
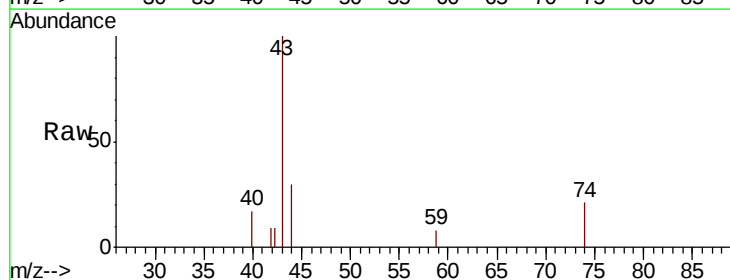
Acq: 15 Aug 2018 17:42

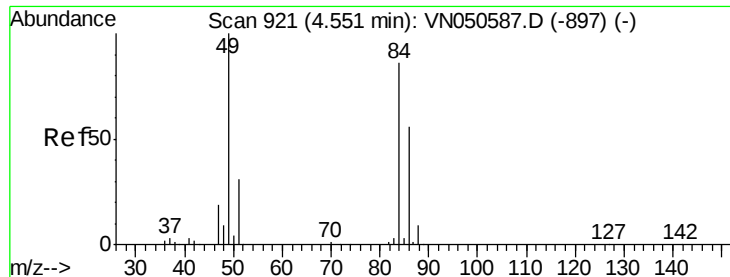
Tgt Ion: 43 Resp: 10016

Ion Ratio Lower Upper

43 100

74 8.1 19.7 29.5#

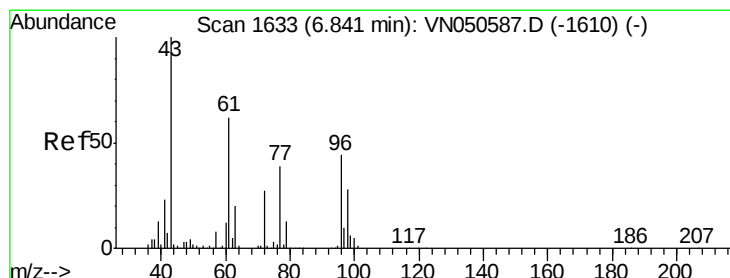
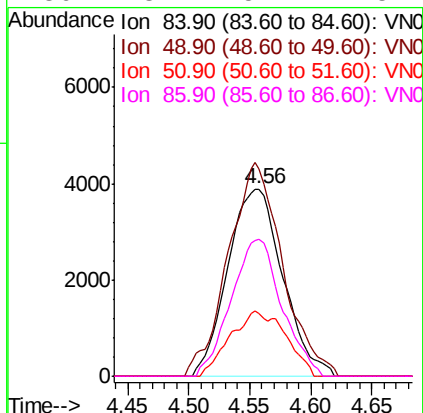
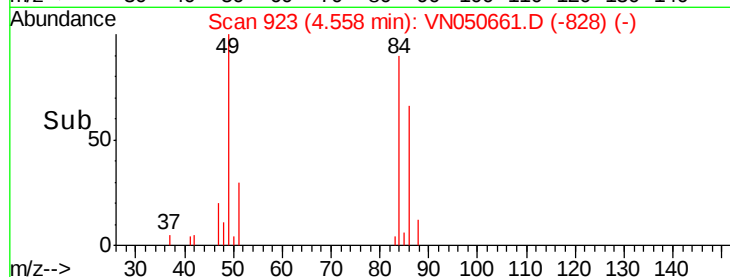
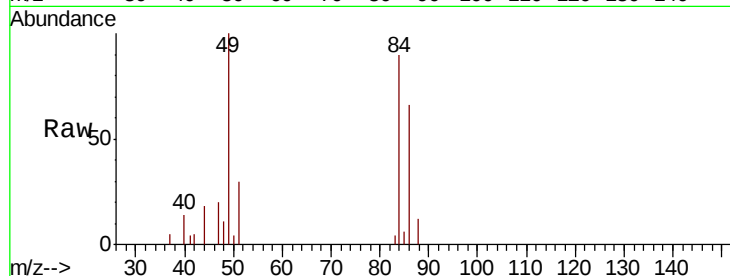




#20
Methvlene Chloride
Concen: 0.45 ug/l
RT: 4.56 min Scan# 923
Delta R.T. 0.01 min
Lab File: VN050661.D
Acq: 15 Aug 2018 17:42

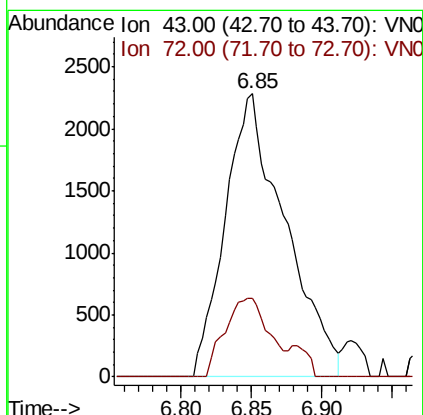
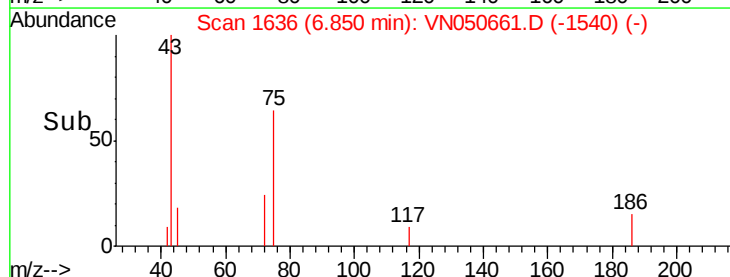
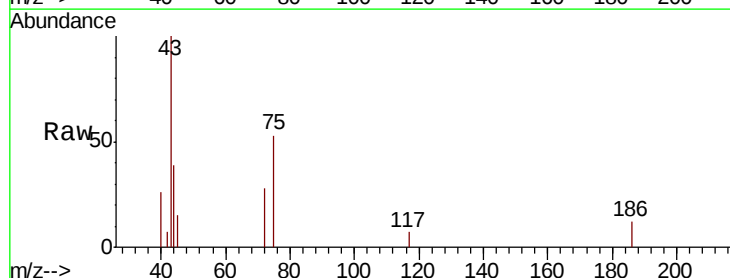
Instrument :
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PB1112055ZHE#01

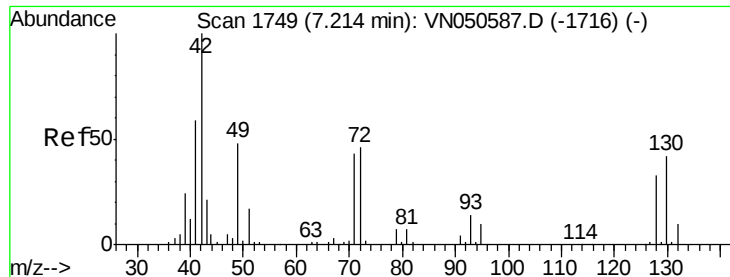
Tot Ion:	84	Resp:	12186
Ion	Ratio	Lower	Upper
84	100		
49	110.8	92.6	138.8
51	33.7	28.6	43.0
86	73.2	52.2	78.2



#25
2-Butanone
Concen: 2.19 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN050661.D
Acq: 15 Aug 2018 17:42

Tgt Ion:	43	Resp:	6750
Ion	Ratio	Lower	Upper
43	100		
72	27.8	21.8	32.6





#29

Tetrahydrofuran

Concen: 0.51 ug/l

RT: 7.23 min Scan# 1755

Delta R.T. 0.02 min

Lab File: VN050661.D

Acq: 15 Aug 2018 17:42

Instrument :

MSVOA_N

ClientSampleId :

PB1112055ZHE#01

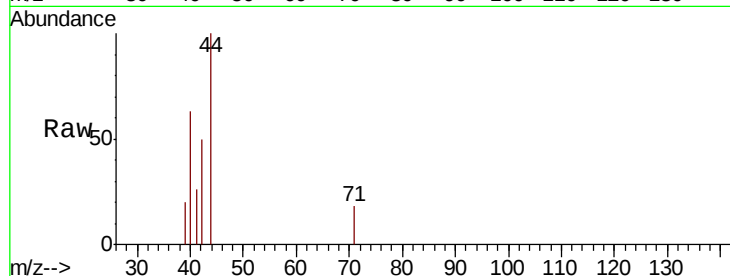
Tot Ion: 42 Resp: 828

Ion Ratio Lower Upper

42 100

72 3.6 35.8 53.6#

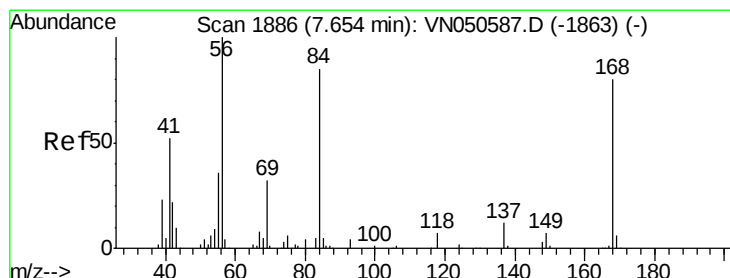
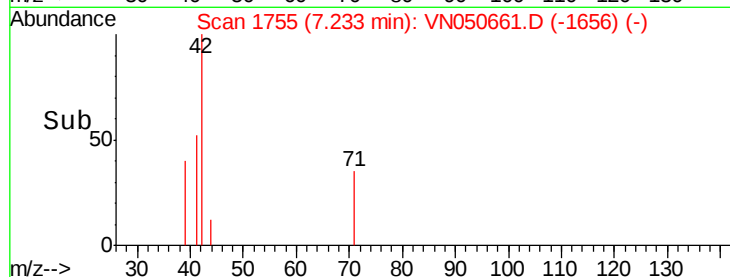
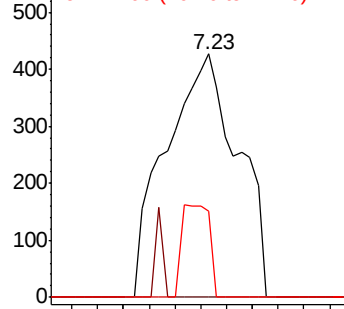
71 14.7 33.4 50.0#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 0.56 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050661.D

Acq: 15 Aug 2018 17:42

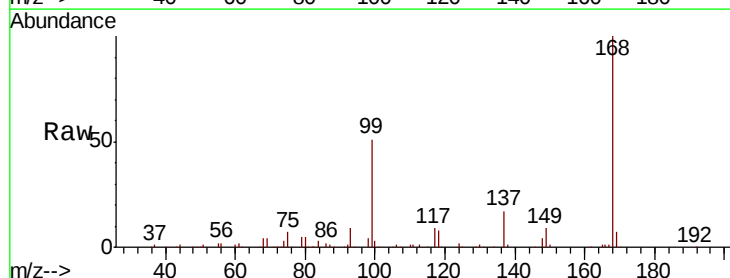
Tgt Ion: 56 Resp: 10272

Ion Ratio Lower Upper

56 100

69 215.0 25.8 38.6#

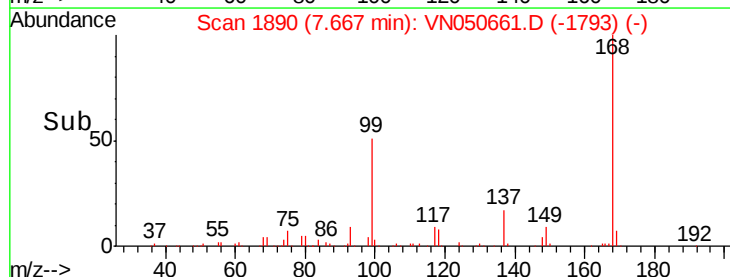
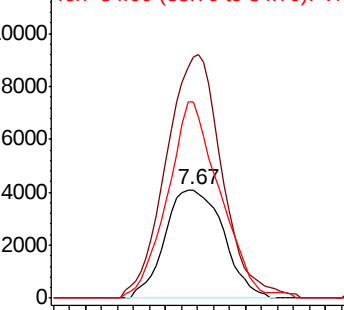
84 177.2 67.8 101.6#

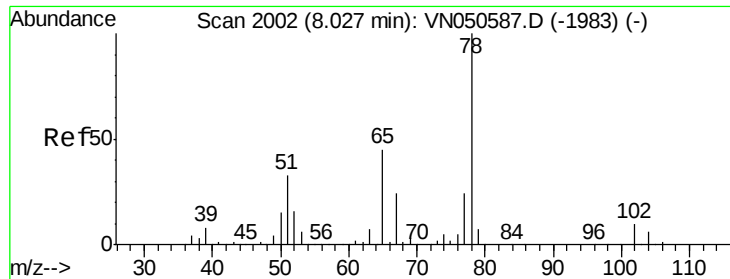


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

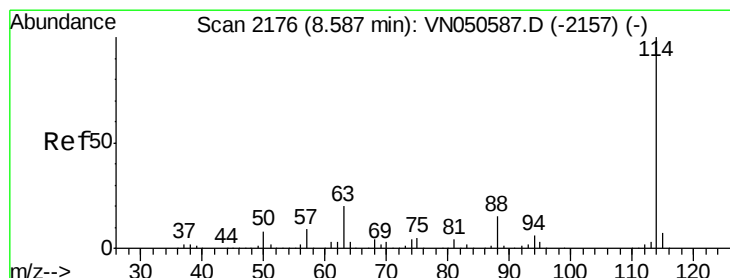
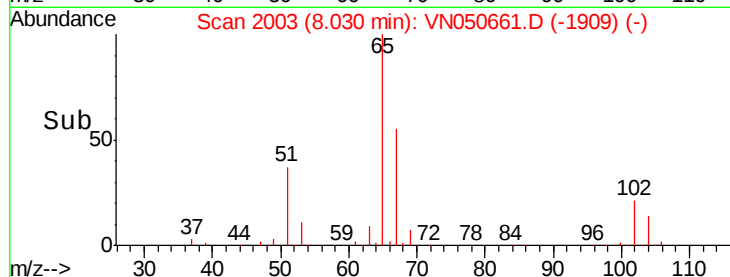
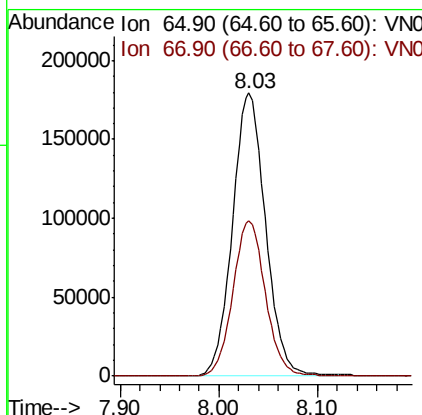
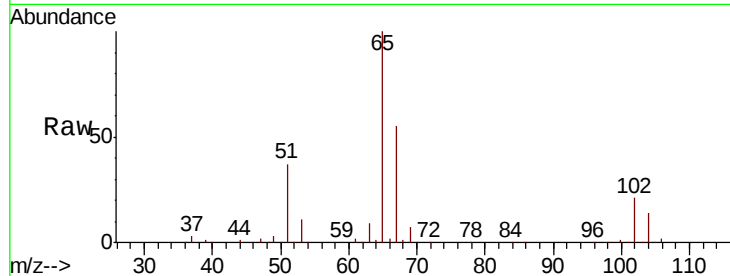




#33
 1,2-Dichloroethane-d4
 Concen: 55.74 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050661.D
 Acq: 15 Aug 2018 17:42

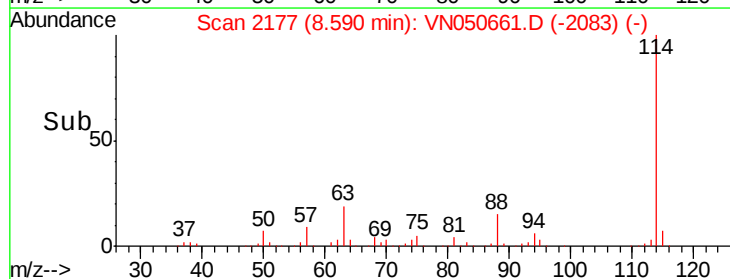
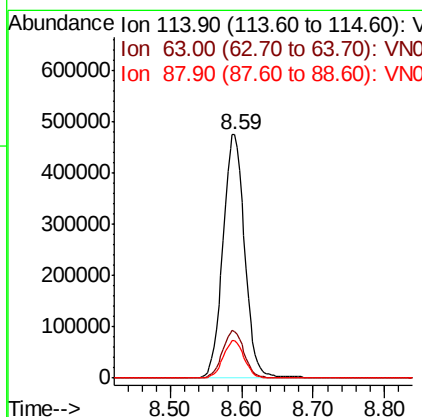
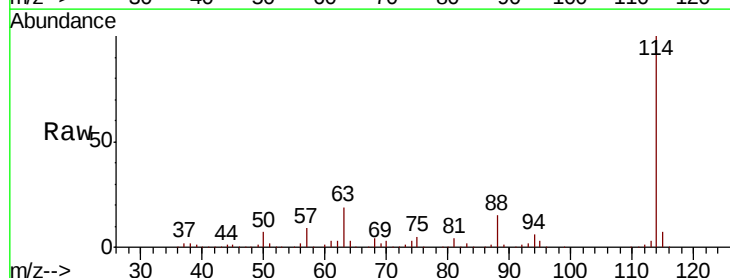
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 PB1112055ZHE#01

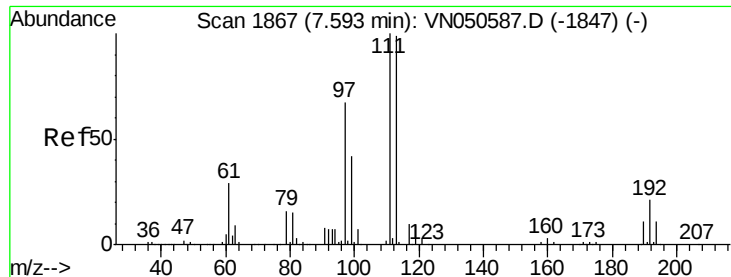
Tot Ion: 65 Resp: 418737
 Ion Ratio Lower Upper
 65 100
 67 54.1 0.0 109.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050661.D
 Acq: 15 Aug 2018 17:42

Tgt Ion: 114 Resp: 1005639
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 40.0
 88 15.4 0.0 30.8

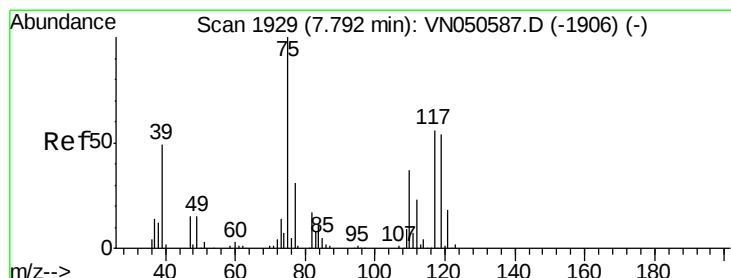
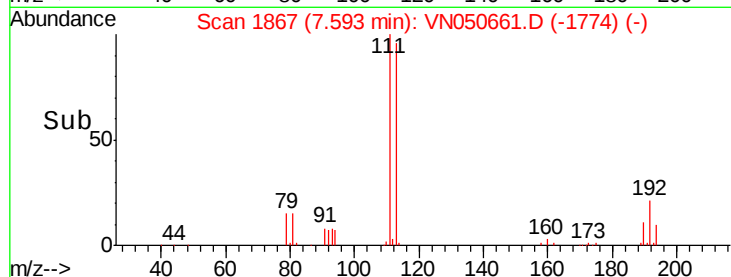
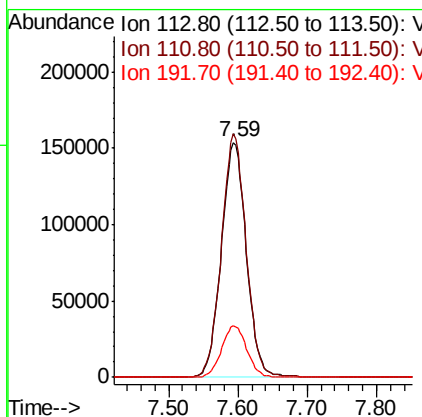
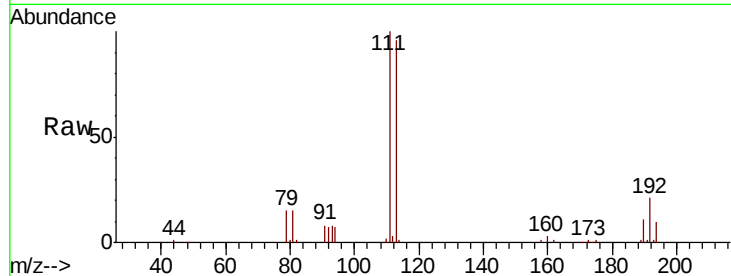




#35
 Dibromofluoromethane
 Concen: 48.30 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050661.D
 Acq: 15 Aug 2018 17:42

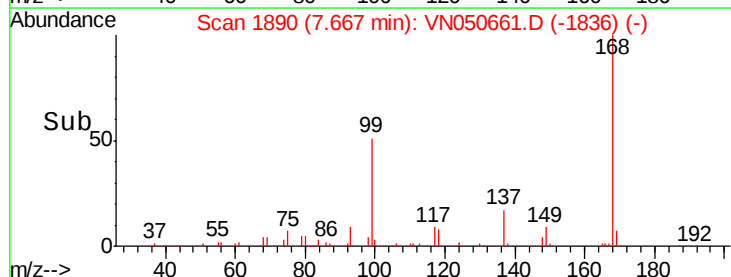
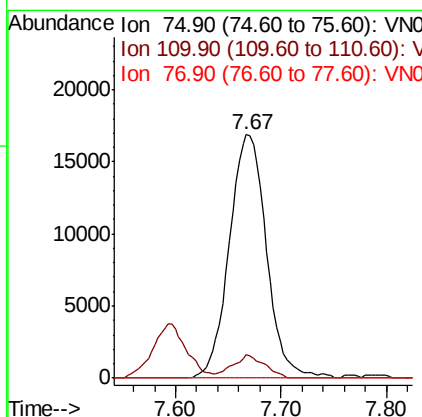
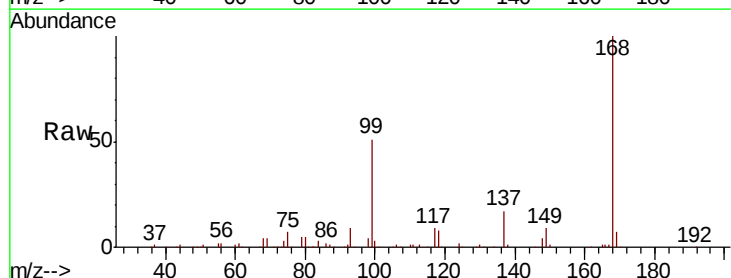
Instrument :
 MSVOA_N
 ClientSampleId :
 PB1112055ZHE#01

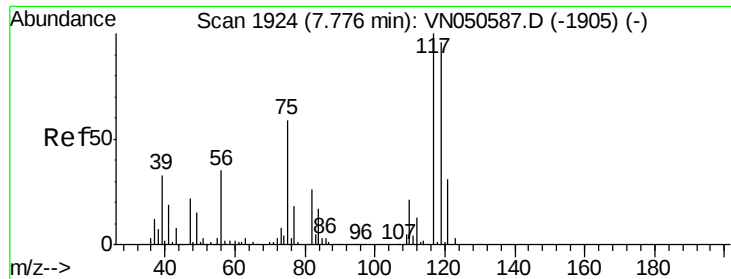
Tot Ion:113 Resp: 387811
 Ion Ratio Lower Upper
 113 100
 111 102.0 81.0 121.6
 192 22.0 17.6 26.4



#36
 1,1-Dichloropropene
 Concen: 3.69 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050661.D
 Acq: 15 Aug 2018 17:42

Tgt Ion: 75 Resp: 41295
 Ion Ratio Lower Upper
 75 100
 110 8.1 18.3 54.9#
 77 0.0 25.0 37.4#

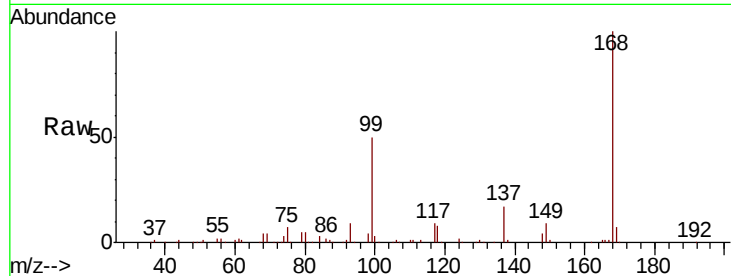




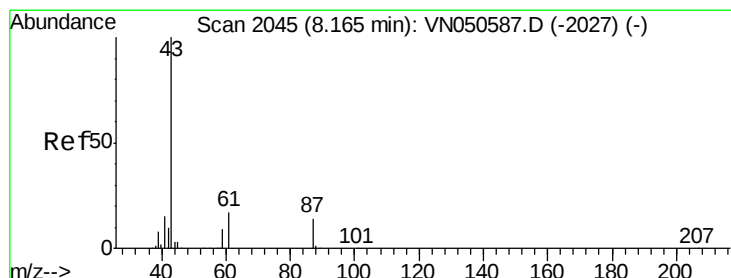
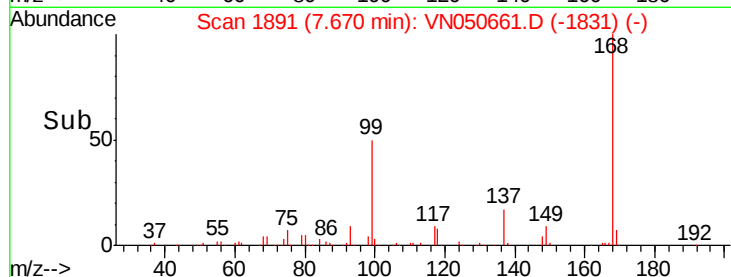
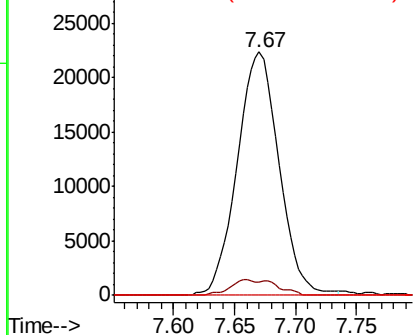
#38
Carbon Tetrachloride
Concen: 4.57 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.11 min
Lab File: VN050661.D
Acq: 15 Aug 2018 17:42

Instrument :
MSVOA_N
ClientSampleId :
PB1112055ZHE#01

Tot Ion:117 Resp: 53034
Ion Ratio Lower Upper
117 100
119 5.5 76.6 115.0#
121 0.0 25.0 37.6#

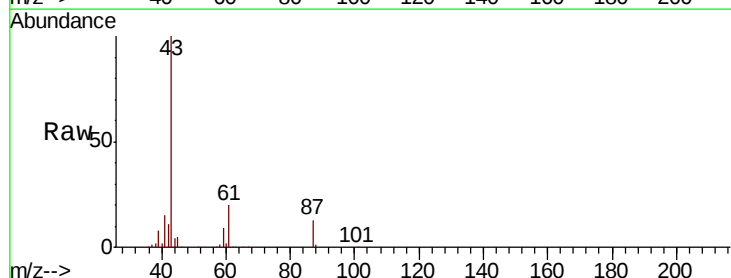


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

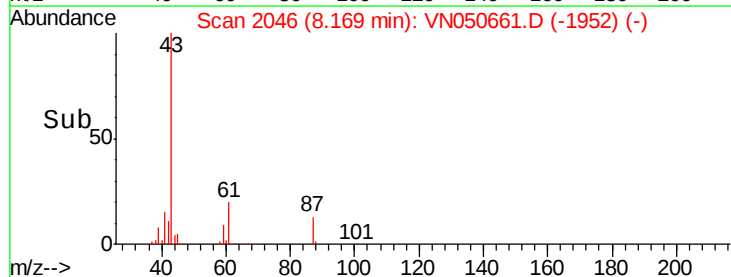
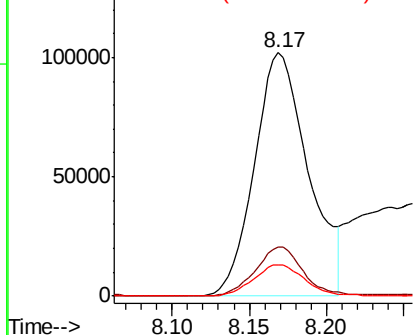


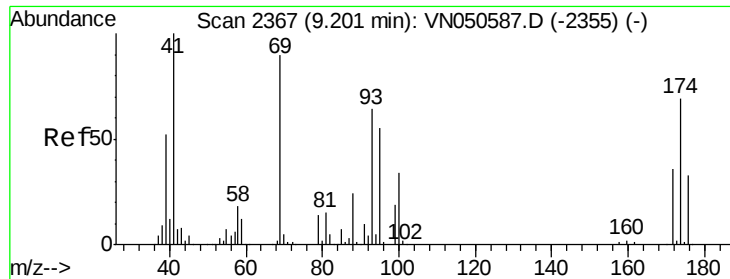
#43
Isopropyl Acetate
Concen: 21.51 ug/l
RT: 8.17 min Scan# 2046
Delta R.T. 0.00 min
Lab File: VN050661.D
Acq: 15 Aug 2018 17:42

Tgt Ion: 43 Resp: 247998
Ion Ratio Lower Upper
43 100
61 17.8 16.2 24.2
87 12.3 10.9 16.3



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

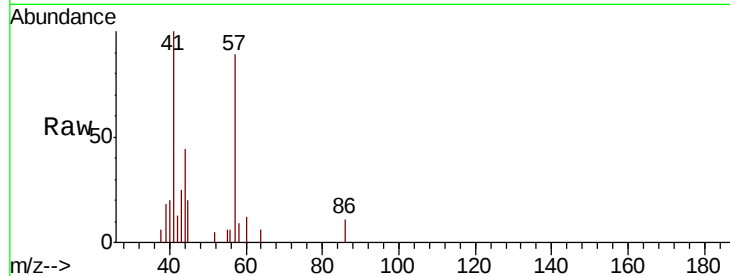




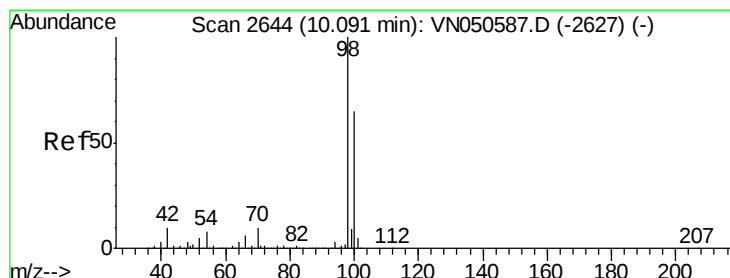
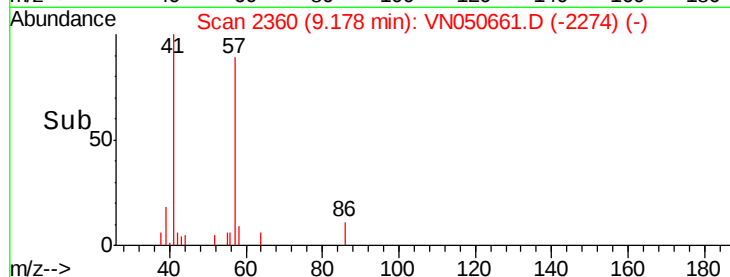
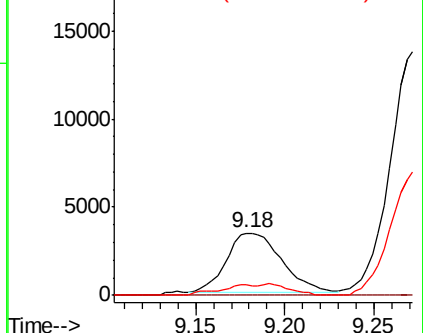
#48
Methyl methacrylate
Concen: 1.24 ug/l
RT: 9.18 min Scan# 2360
Delta R.T. -0.02 min
Lab File: VN050661.D
Acq: 15 Aug 2018 17:42

Instrument :
MSVOA_N
ClientSampleId :
PB1112055ZHE#01

Tot Ion: 41 Resp: 7209
Ion Ratio Lower Upper
41 100
69 0.0 73.4 110.0#
39 12.4 43.0 64.6#

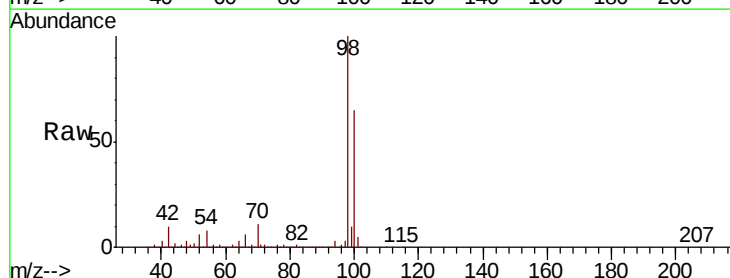


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

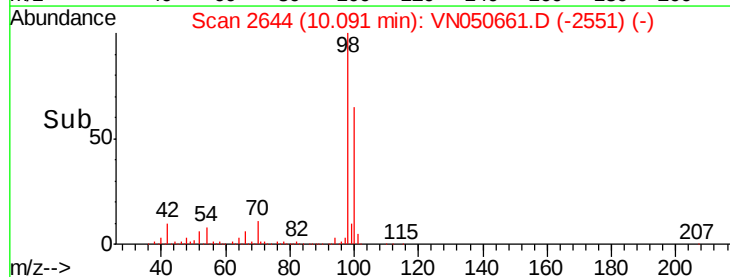
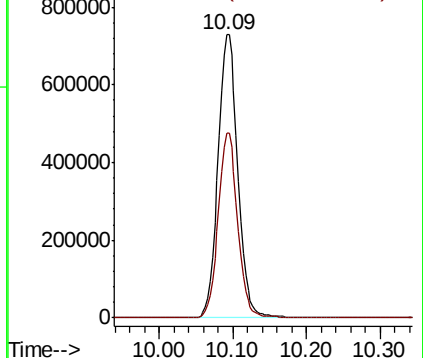


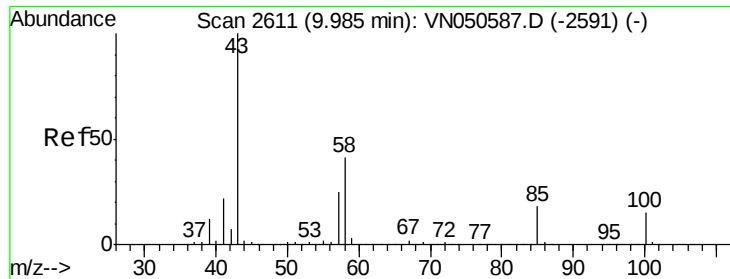
#50
Toluene-d8
Concen: 44.93 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN050661.D
Acq: 15 Aug 2018 17:42

Tgt Ion: 98 Resp: 1357463
Ion Ratio Lower Upper
98 100
100 64.2 51.8 77.8



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: 0.20 ug/l

RT: 9.98 min Scan# 2610

Delta R.T. -0.00 min

Lab File: VN050661.D

Acq: 15 Aug 2018 17:42

Instrument :

MSVOA_N

ClientSampleId :

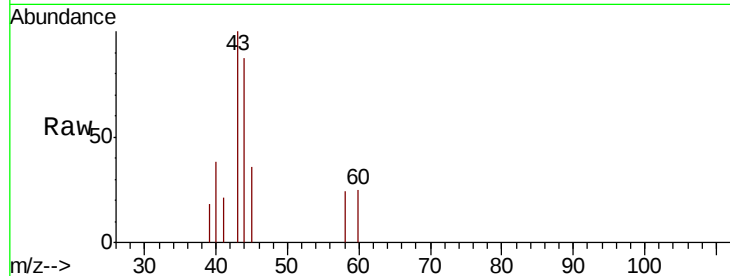
PB1112055ZHE#01

Tot Ion: 43 Resp: 1563

Ion Ratio Lower Upper

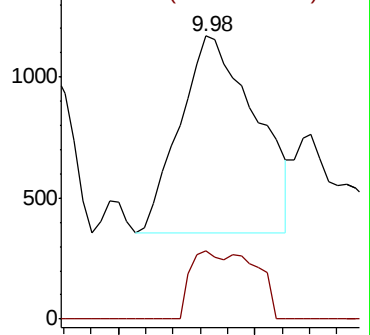
43 100

58 0.0 32.5 48.7#

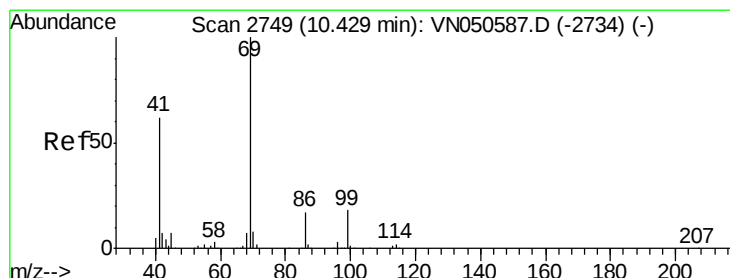
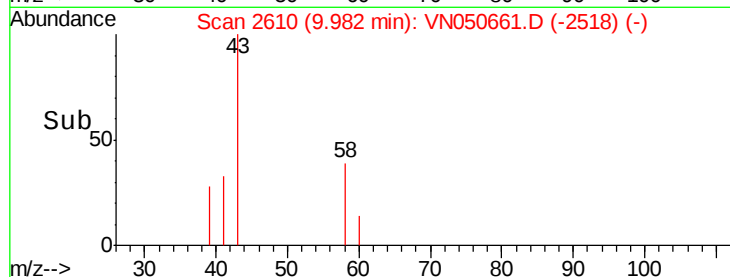


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->



#56

Ethyl methacrylate

Concen: 1.98 ug/l

RT: 10.64 min Scan# 2814

Delta R.T. 0.21 min

Lab File: VN050661.D

Acq: 15 Aug 2018 17:42

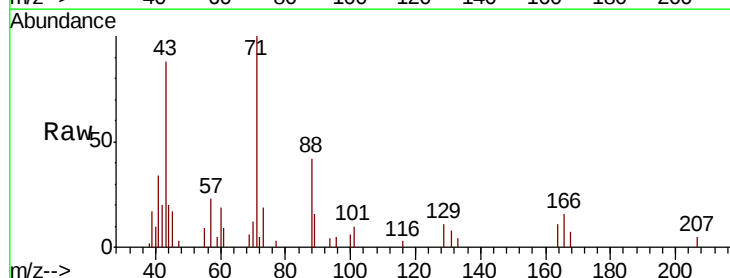
Tgt Ion: 69 Resp: 709

Ion Ratio Lower Upper

69 100

41 645.0 49.7 74.5#

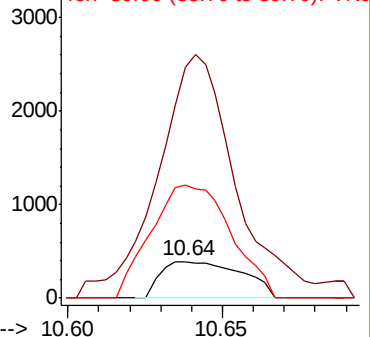
39 307.6 24.2 36.2#



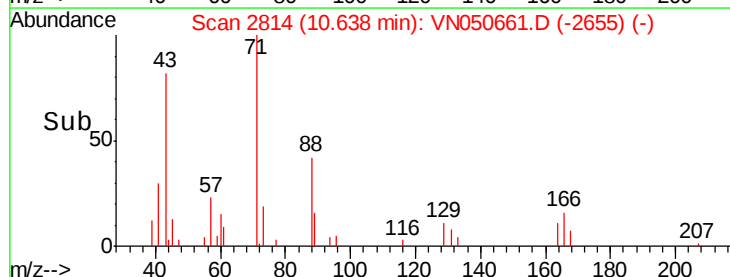
Abundance Ion 69.00 (68.70 to 69.70): VN0

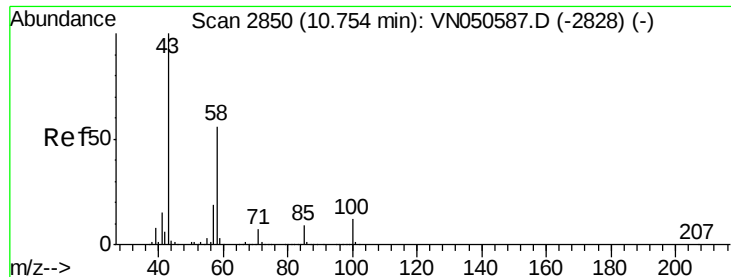
Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



Time-->





#59

2-Hexanone

Concen: 3.66 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050661.D

Acq: 15 Aug 2018 17:42

Instrument :

MSVOA_N

ClientSampleId :

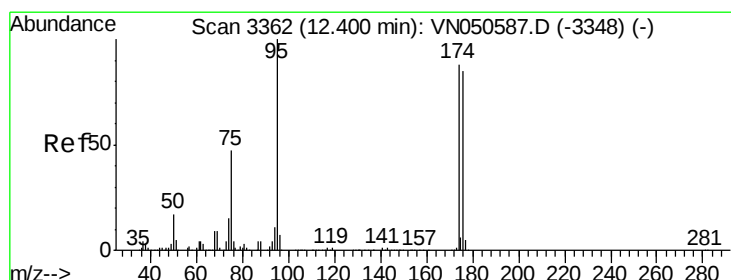
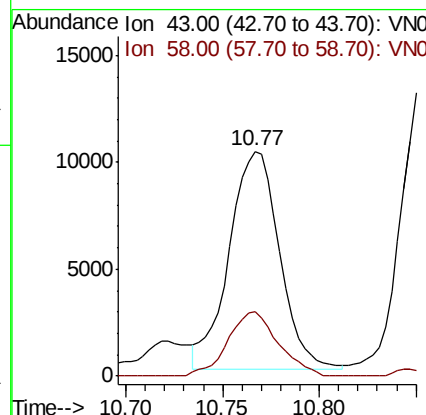
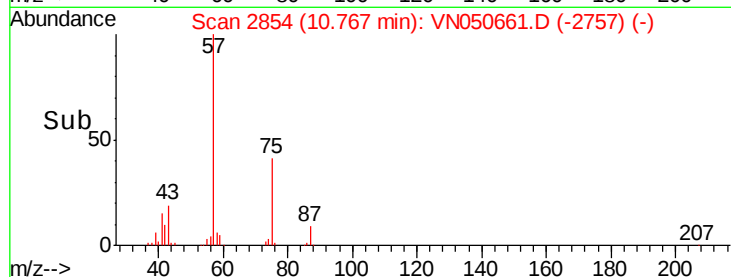
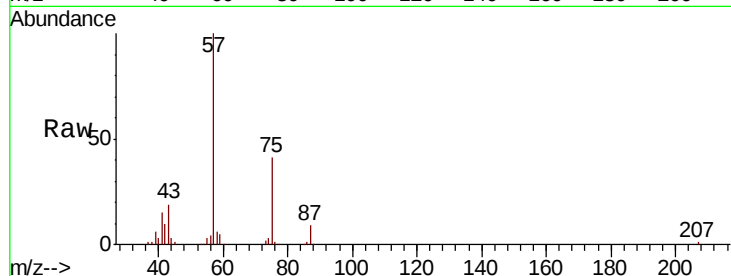
PB1112055ZHE#01

Tot Ion: 43 Resp: 18426

Ion Ratio Lower Upper

43 100

58 29.7 28.0 84.0



#62

4-Bromofluorobenzene

Concen: 37.47 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050661.D

Acq: 15 Aug 2018 17:42

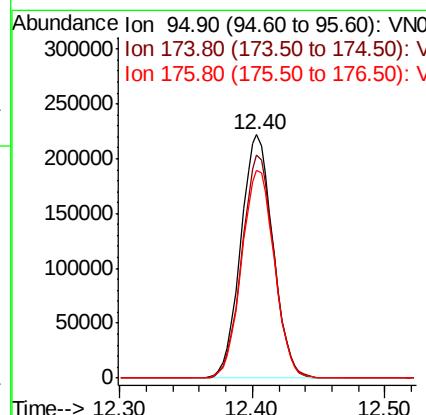
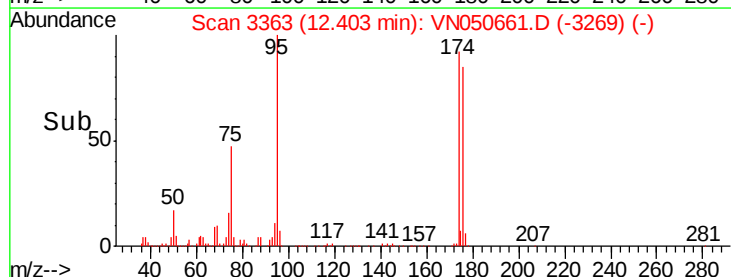
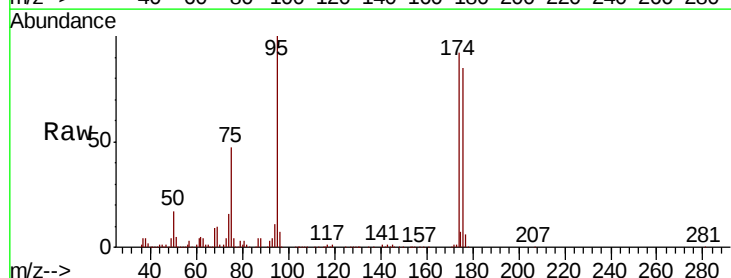
Tgt Ion: 95 Resp: 374031

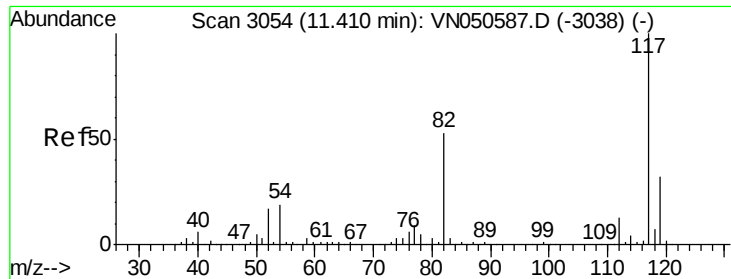
Ion Ratio Lower Upper

95 100

174 91.5 0.0 177.8

176 86.9 0.0 175.0

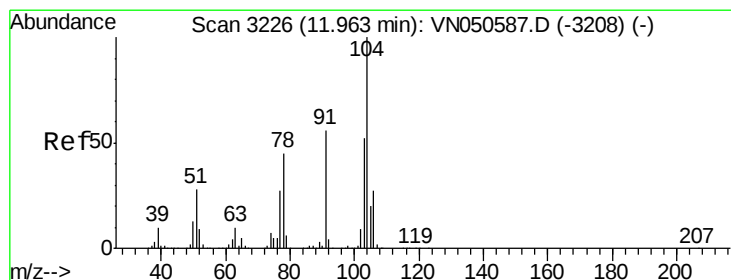
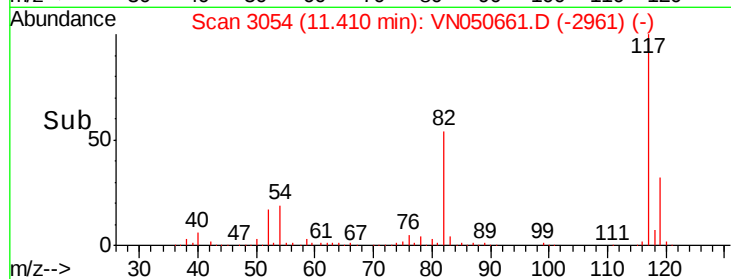
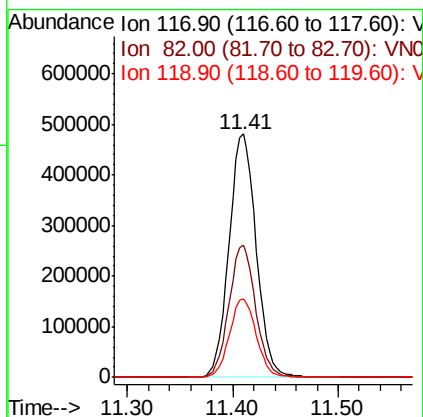
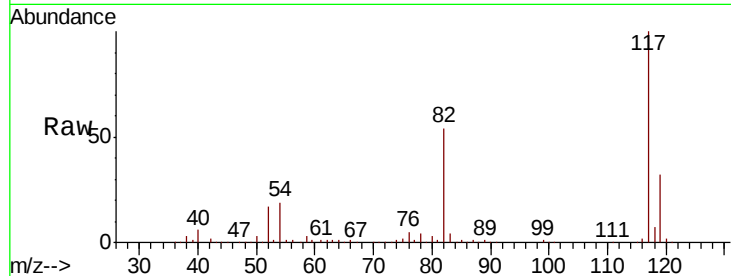




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050661.D
Acq: 15 Aug 2018 17:42

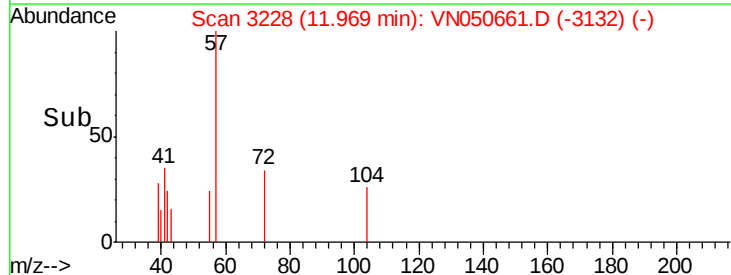
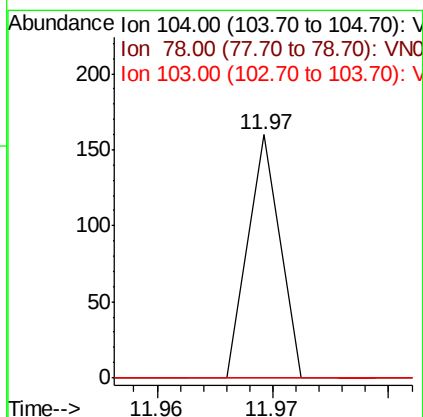
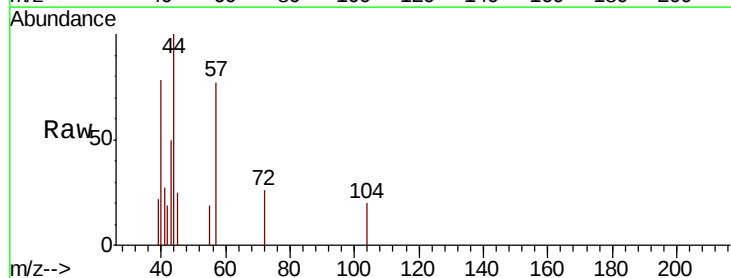
Instrument :
MSVOA_N
ClientSampleId :
PB1112055ZHE#01

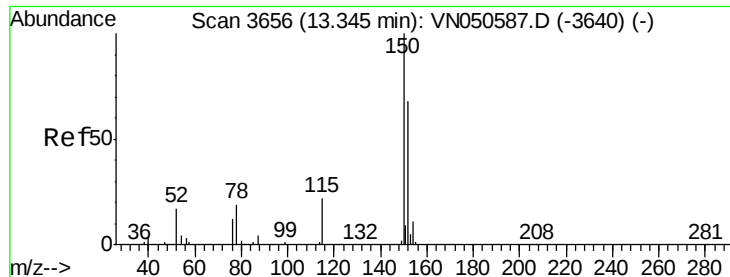
Tot Ion:117 Resp: 856178
Ion Ratio Lower Upper
117 100
82 54.3 42.4 63.6
119 32.5 25.8 38.8



#70
Styrene
Concen: 0.94 ug/l
RT: 11.97 min Scan# 3228
Delta R.T. 0.01 min
Lab File: VN050661.D
Acq: 15 Aug 2018 17:42

Tgt Ion:104 Resp: 31
Ion Ratio Lower Upper
104 100
78 0.0 39.1 58.7#
103 0.0 44.9 67.3#

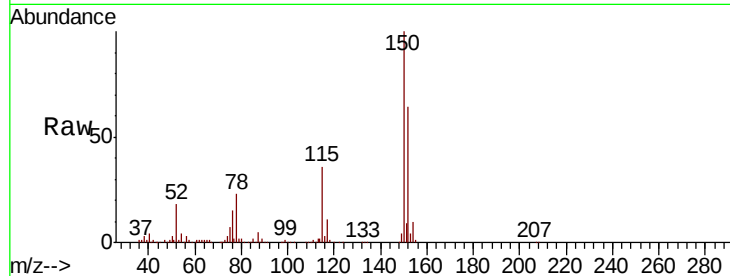




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.00 ug/l
 RT: 13.35 min Scan# 3656
 Delta R.T. 0.00 min
 Lab File: VN050661.D
 Acq: 15 Aug 2018 17:42

Instrument :
 MSVOA_N
 ClientSampleId :
 PB1112055ZHE#01

Tot Ion	Ratio	Lower	Upper
152	100		
115	56.2	28.1	84.2
150	158.1	0.0	347.8

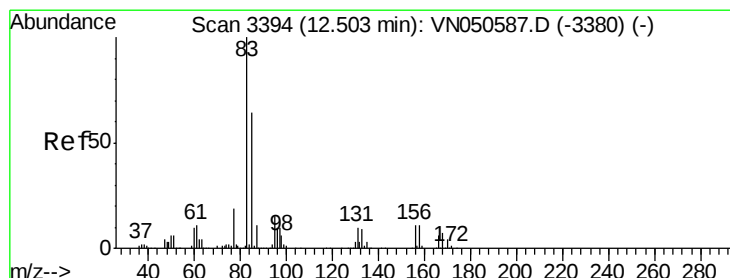
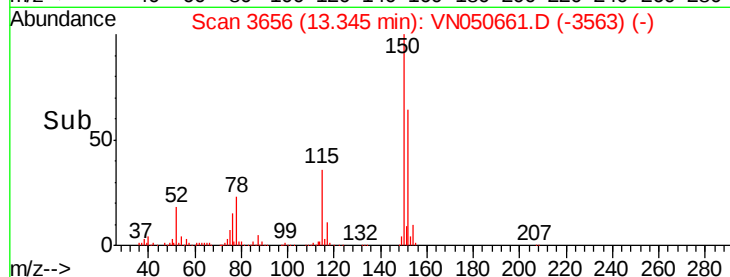
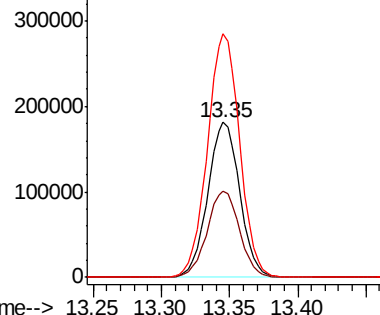


Abundance

Ion 151.90 (151.60 to 152.60): V

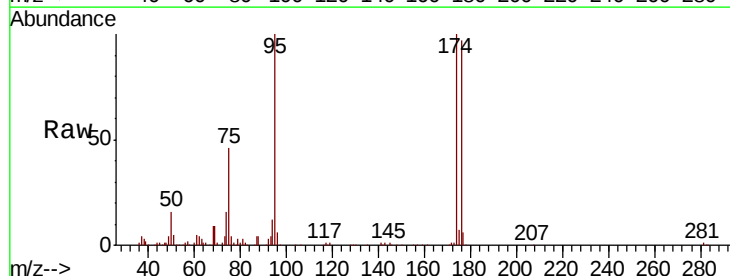
Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#75
 1,1,2,2-Tetrachloroethane
 Concen: Below Cal
 RT: 12.42 min Scan# 3367
 Delta R.T. -0.09 min
 Lab File: VN050661.D
 Acq: 15 Aug 2018 17:42

Tgt Ion	Ratio	Lower	Upper
83	100		
131	466.4	5.3	15.9#
85	0.0	32.1	96.5#

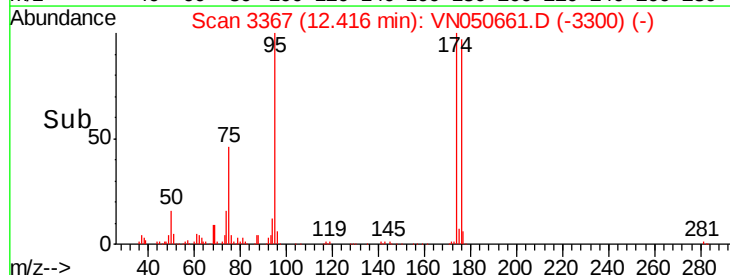
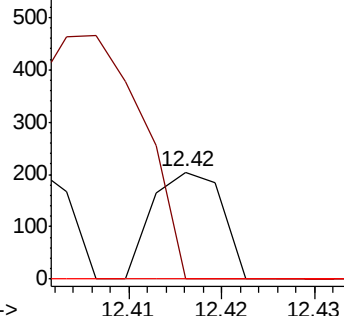


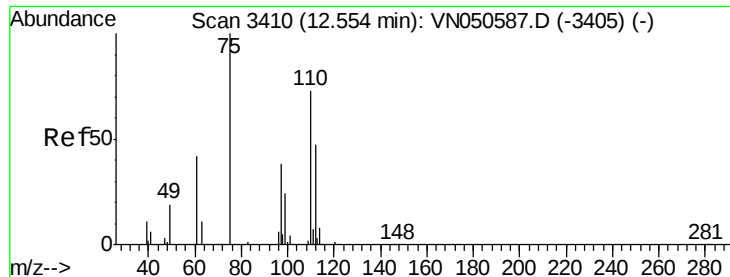
Abundance

Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 36.53 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050661.D

Acq: 15 Aug 2018 17:42

Instrument :

MSVOA_N

ClientSampleId :

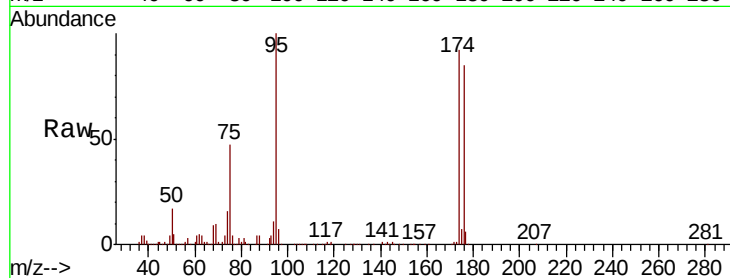
PB1112055ZHE#01

Tot Ion: 75 Resp: 174990

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

120000

100000

80000

60000

40000

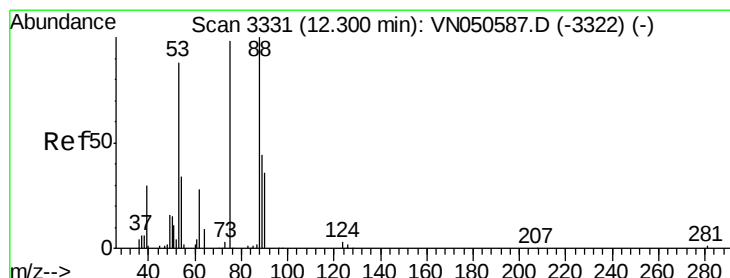
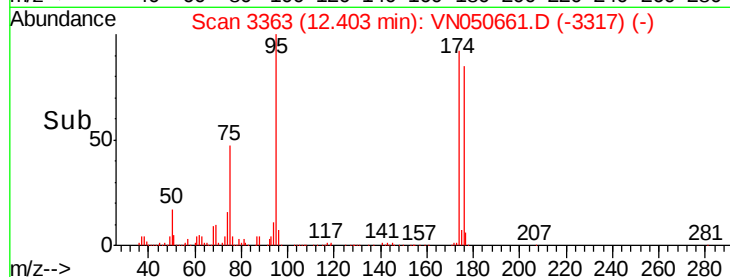
20000

0

12.40

12.50

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 132.21 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050661.D

Acq: 15 Aug 2018 17:42

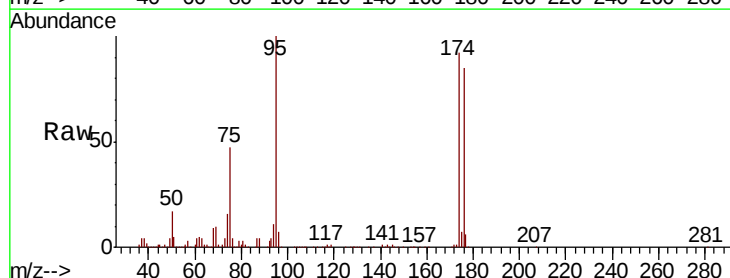
Tgt Ion: 75 Resp: 174990

Ion Ratio Lower Upper

75 100

53 0.2 72.2 108.2#

89 0.0 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

100000

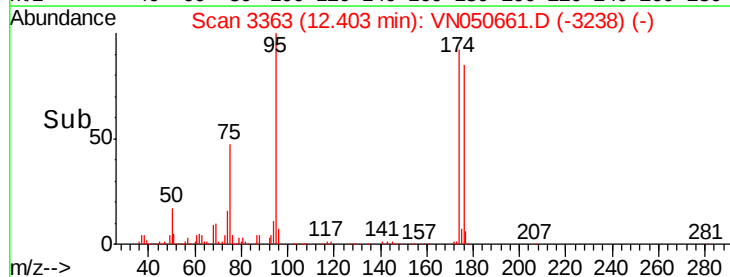
50000

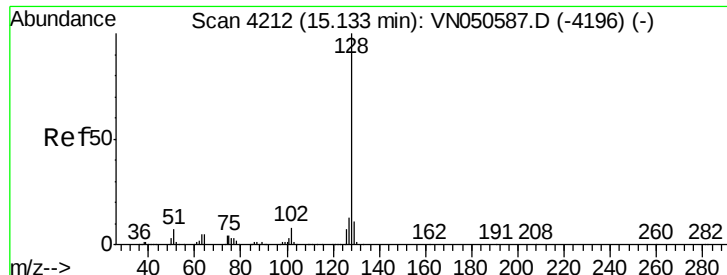
0

12.40

12.50

Time-->

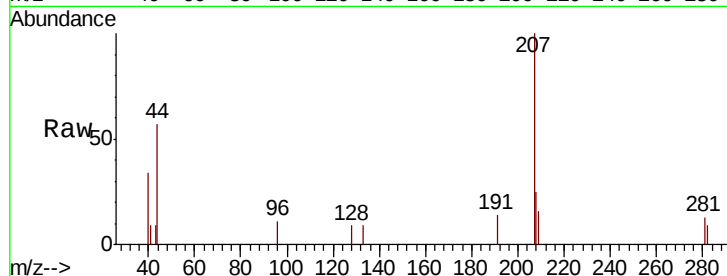




#95
Naphthalene
Concen: 3.87 ug/l
RT: 15.13 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN050661.D
Acq: 15 Aug 2018 17:42

Instrument :
MSVOA_N
ClientSampleId :
PB1112055ZHE#01

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.3	15.5#
129	0.0	8.5	12.7#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

