

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081518\
 Data File : VN050662.D
 Acq On : 15 Aug 2018 18:07
 Operator : MD\SY
 Sample : PB1112055ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB1112055ZHE#02

Quant Time: Aug 16 01:31:41 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	594632	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1003642	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	860918	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	319042	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	414616	55.32	ug/l	0.00
Spiked Amount			Recovery	=	110.64%	
35) Dibromofluoromethane	7.59	113	383335	47.84	ug/l	0.00
Spiked Amount			Recovery	=	95.68%	
50) Toluene-d8	10.09	98	1366153	45.30	ug/l	0.00
Spiked Amount			Recovery	=	90.60%	
62) 4-Bromofluorobenzene	12.40	95	385757	38.72	ug/l	0.00
Spiked Amount			Recovery	=	77.44%	

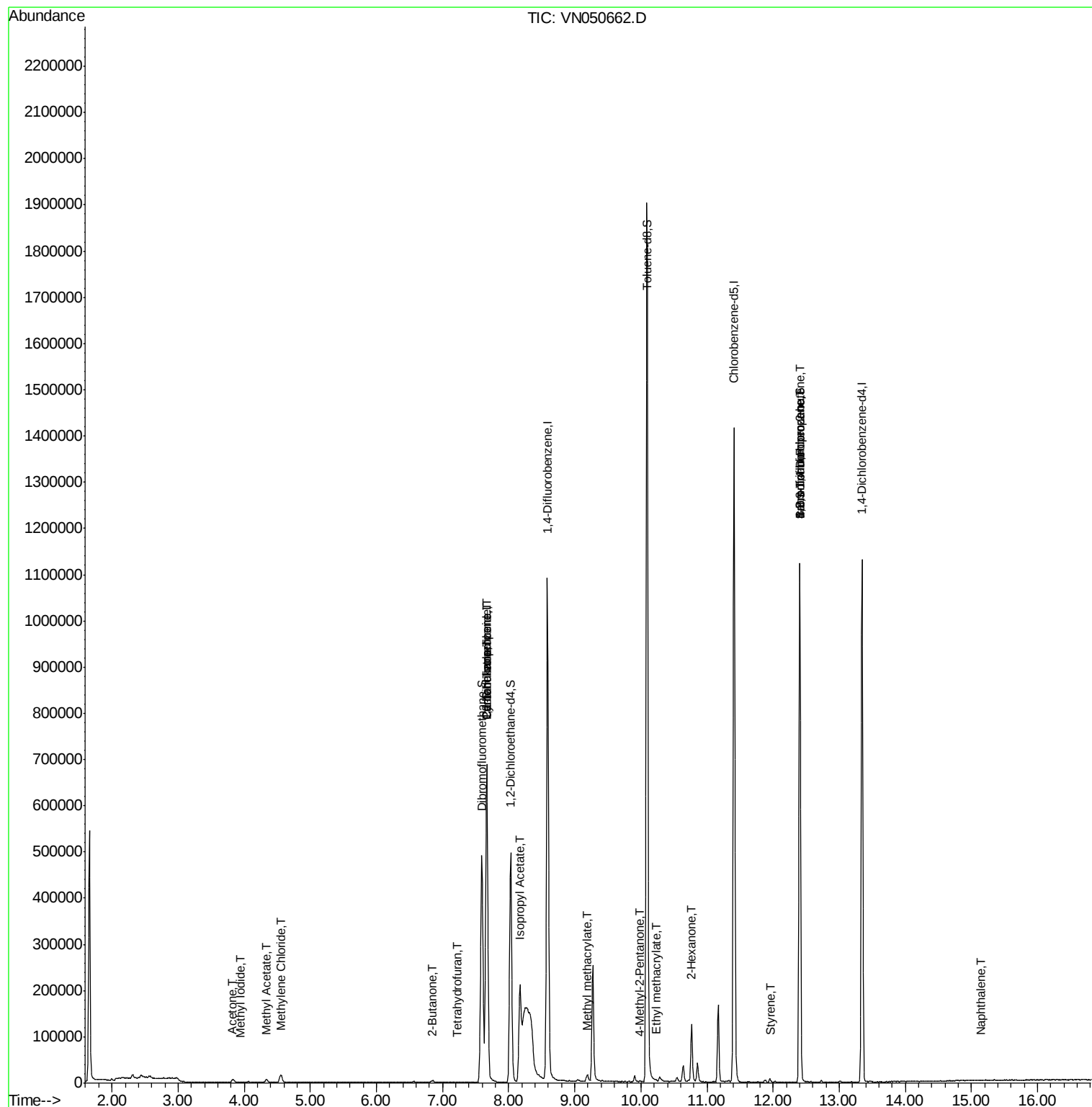
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2244	Below Cal		90
5) Bromomethane	2.57	94	2825	Below Cal		96
6) Chloroethane	2.69	64	103	Below Cal	#	43
10) Methyl Iodide	3.94	142	436	7.02	ug/l #	51
16) Acetone	3.82	43	13058	5.56	ug/l	91
18) Methyl Acetate	4.33	43	12388	1.39	ug/l	92
20) Methylene Chloride	4.56	84	12414	0.48	ug/l	92
25) 2-Butanone	6.85	43	5229	1.70	ug/l	95
29) Tetrahydrofuran	7.23	42	897	0.56	ug/l #	74
31) Cyclohexane	7.67	56	10567	0.59	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	40768	3.65	ug/l #	48
38) Carbon Tetrachloride	7.67	117	54261	4.68	ug/l #	16
43) Isopropyl Acetate	8.17	43	267460	23.24	ug/l	95
48) Methyl methacrylate	9.18	41	8284	1.43	ug/l #	11
51) 4-Methyl-2-Pentanone	9.99	43	1731	0.22	ug/l #	74
56) Ethyl methacrylate	10.23	69	2415	2.14	ug/l #	73
59) 2-Hexanone	10.77	43	18956	3.77	ug/l	64
70) Styrene	11.97	104	194	0.95	ug/l #	26
71) Bromoform	12.40	173	3637	0.68	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.40	83	130	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	179530	34.51	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	179530	125.10	ug/l #	13
95) Naphthalene	15.14	128	65	3.87	ug/l #	69

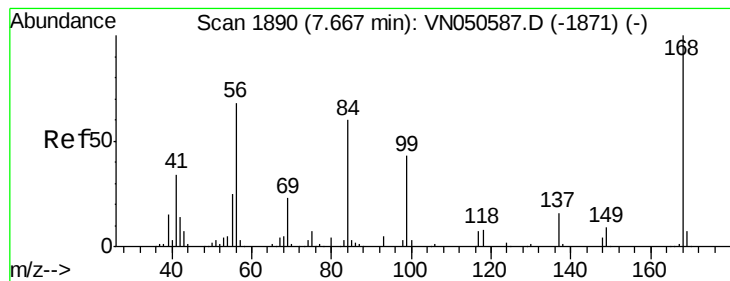
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 15 Aug 2018 18:07
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Misc : 5.00mL/MSVOA N/WATER
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Quant Time: Aug 16 01:31:41 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N081418W.M
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: VN050662.D

Acq: 15 Aug 2018 18:07

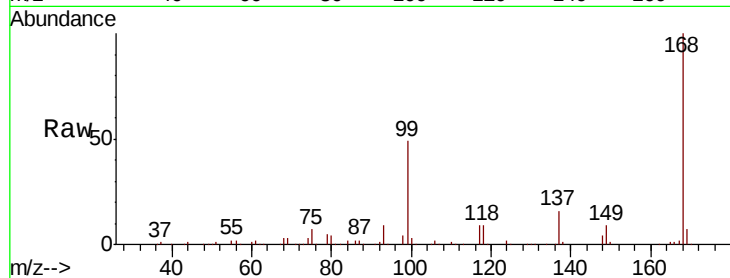
Instrument :
MSVOA_N
ClientSampleId :
PB1112055ZHE#02

Tot Ion:168 Resp: 594632

Ion Ratio Lower Upper

168 100

99 49.4 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): VN050587.D (-1871) (-)

Ion 98.90 (98.60 to 99.60): VN050587.D (-1871) (-)

7.67

250000

200000

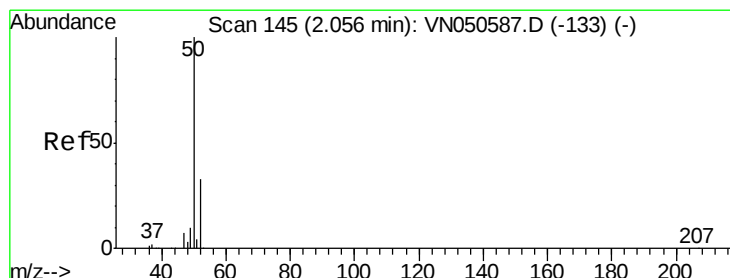
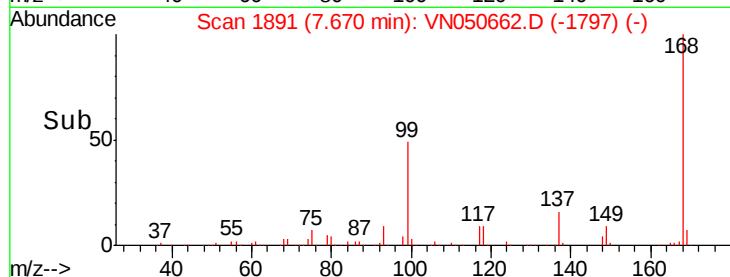
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050662.D

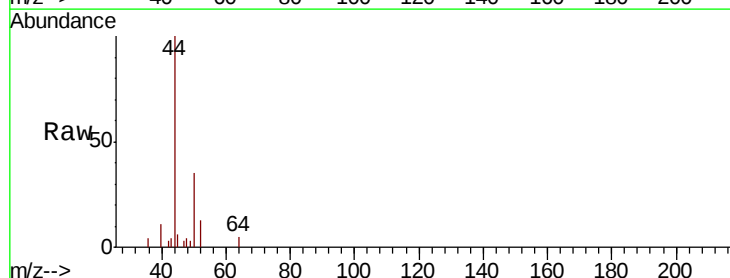
Acq: 15 Aug 2018 18:07

Tgt Ion: 50 Resp: 2244

Ion Ratio Lower Upper

50 100

52 38.1 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VN050587.D (-133) (-)

Ion 51.90 (51.60 to 52.60): VN050587.D (-133) (-)

2.06

2000

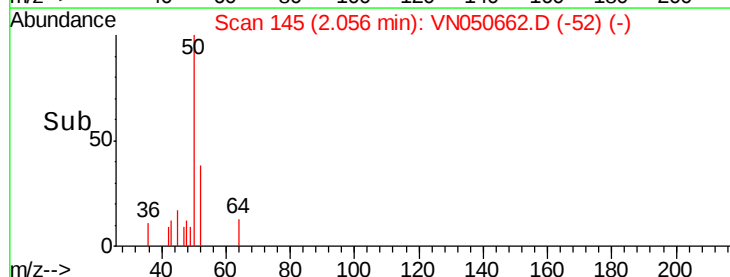
1500

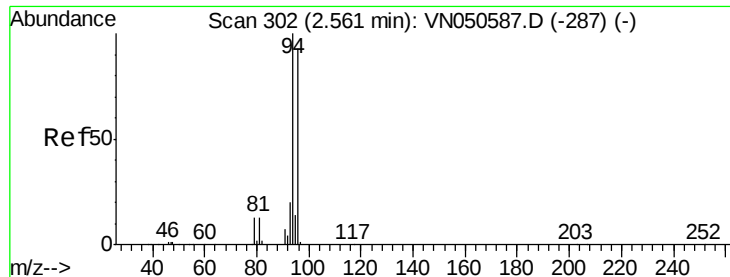
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050662.D

Acq: 15 Aug 2018 18:07

Instrument :

MSVOA_N

ClientSampleId :

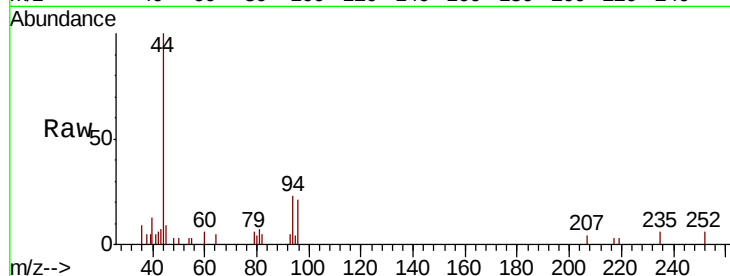
PB1112055ZHE#02

Tot Ion: 94 Resp: 2825

Ion Ratio Lower Upper

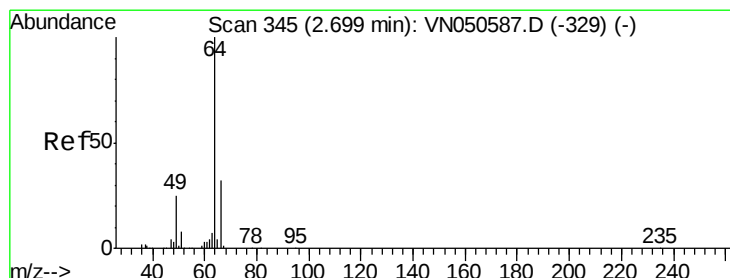
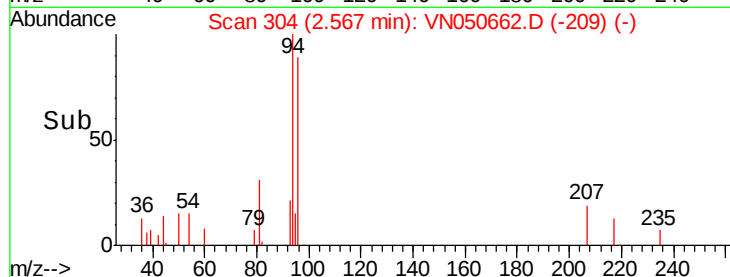
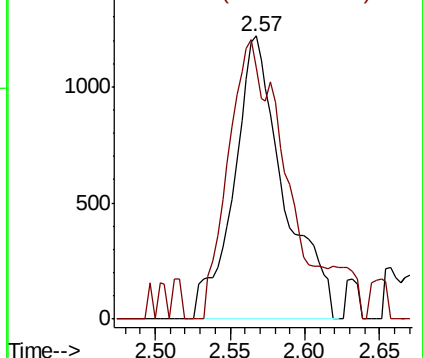
94 100

96 88.9 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: 2.69 min Scan# 343

Delta R.T. -0.01 min

Lab File: VN050662.D

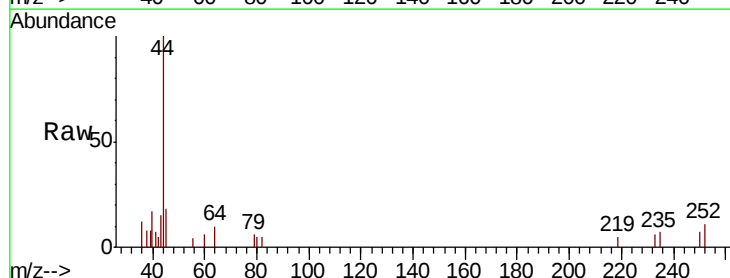
Acq: 15 Aug 2018 18:07

Tgt Ion: 64 Resp: 103

Ion Ratio Lower Upper

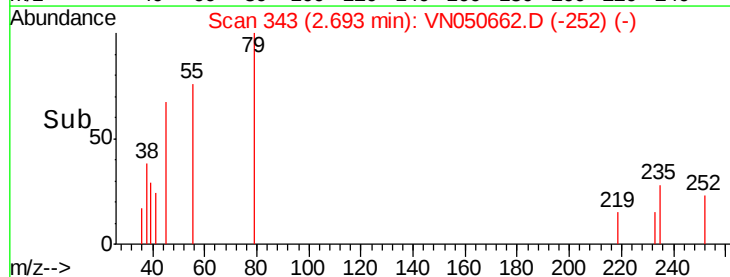
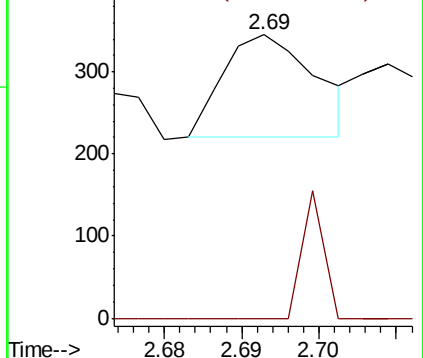
64 100

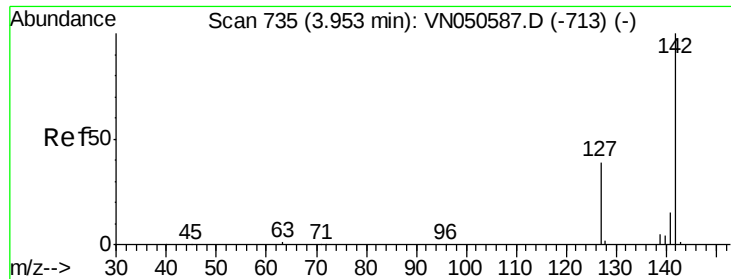
66 0.0 25.7 38.5#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

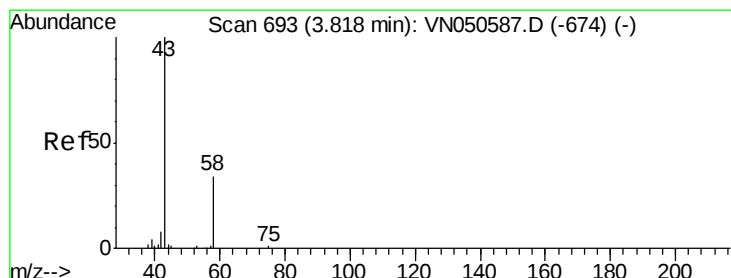
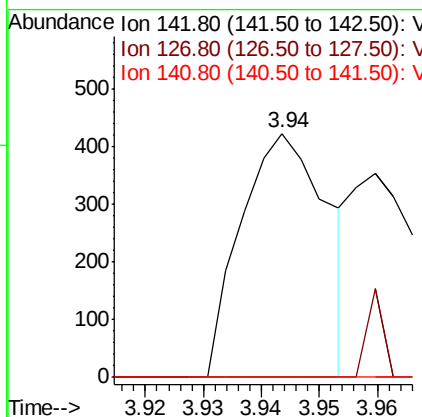
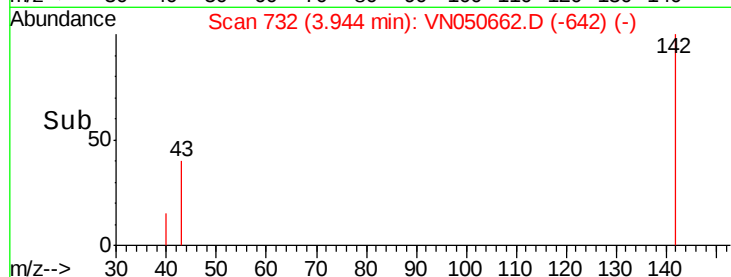
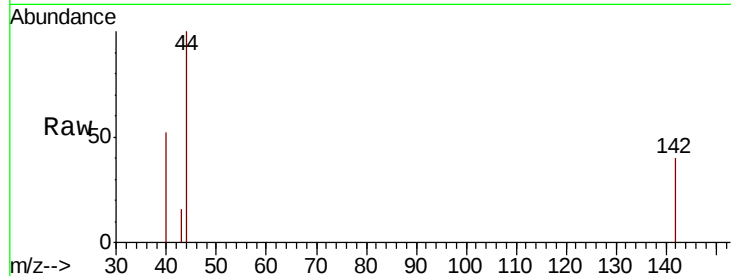




#10
Methvl Iodide
Concen: 7.02 ug/l
RT: 3.94 min Scan# 732
Delta R.T. -0.01 min
Lab File: VN050662.D
Acq: 15 Aug 2018 18:07

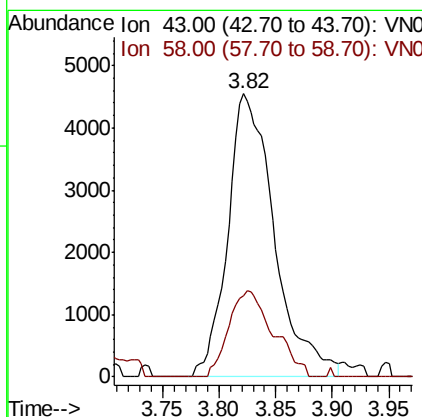
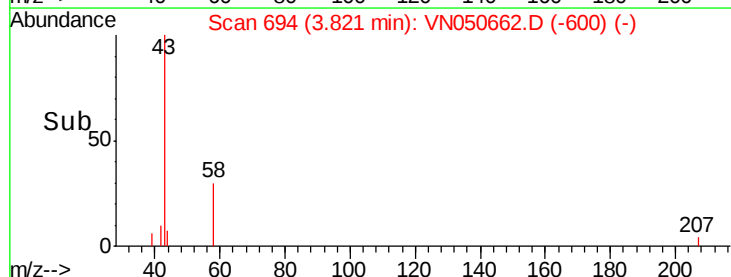
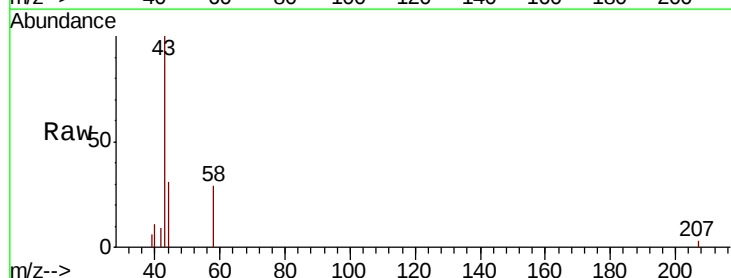
Instrument :
MSVOA_N
ClientSampleId :
PB1112055ZHE#02

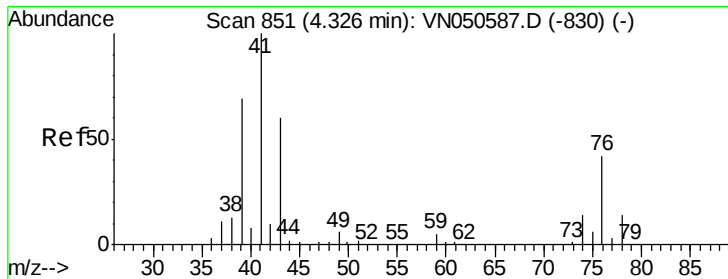
Tot Ion:142 Resp: 436
Ion Ratio Lower Upper
142 100
127 6.9 32.6 49.0#
141 0.0 11.5 17.3#



#16
Acetone
Concen: 5.56 ug/l
RT: 3.82 min Scan# 694
Delta R.T. 0.00 min
Lab File: VN050662.D
Acq: 15 Aug 2018 18:07

Tgt Ion: 43 Resp: 13058
Ion Ratio Lower Upper
43 100
58 28.7 27.1 40.7

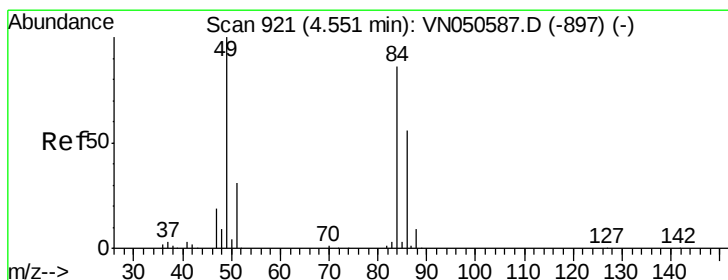
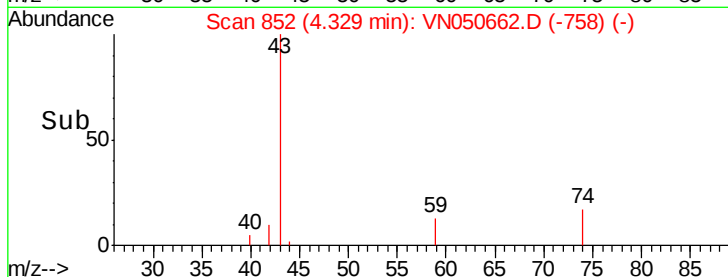
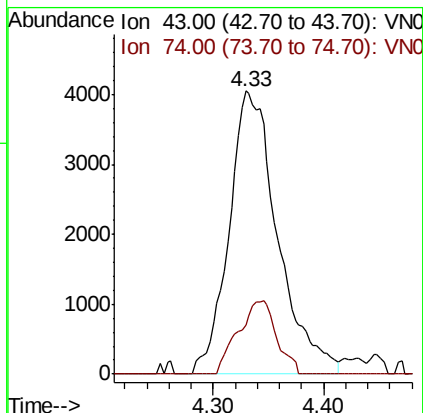
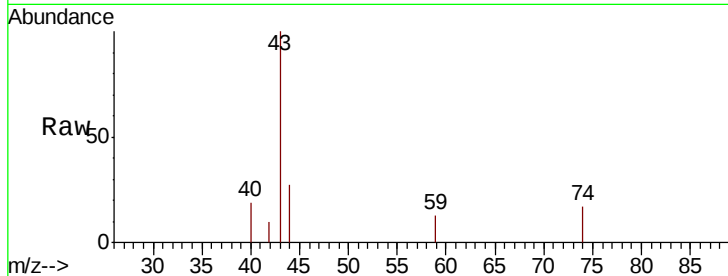




#18
Methyl Acetate
Concen: 1.39 ug/l
RT: 4.33 min Scan# 852
Delta R.T. 0.00 min
Lab File: VN050662.D
Acq: 15 Aug 2018 18:07

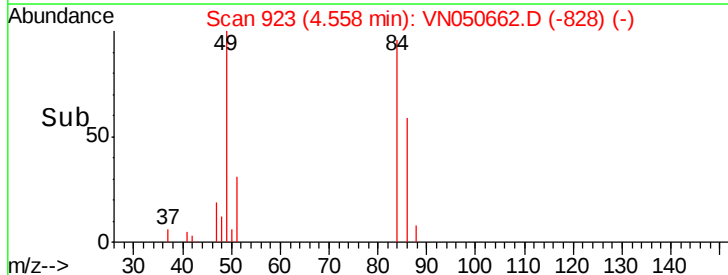
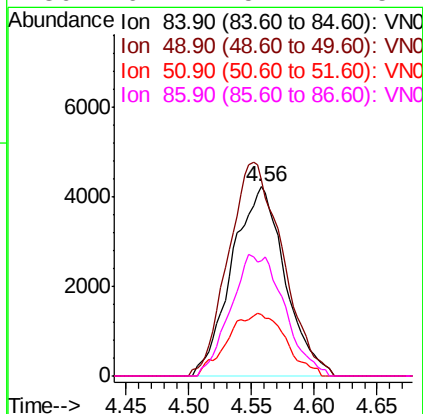
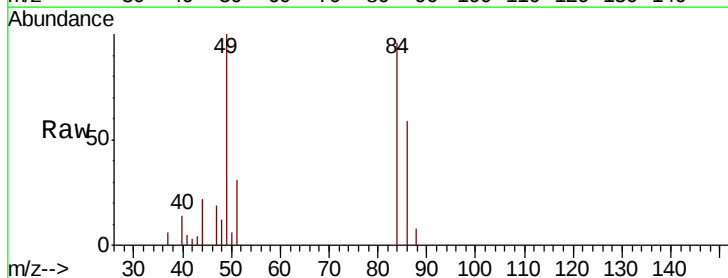
Instrument :
MSVOA_N
ClientSampleId :
PB1112055ZHE#02

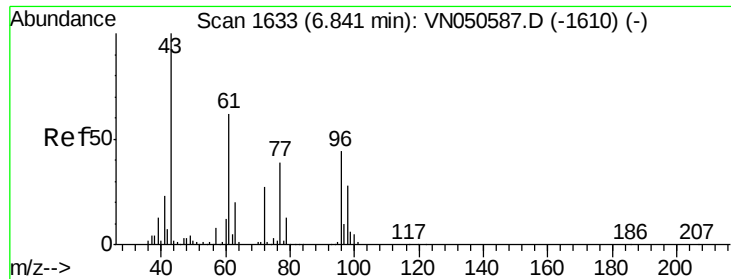
Tot Ion: 43 Resp: 12388
Ion Ratio Lower Upper
43 100
74 20.4 19.7 29.5



#20
Methylene Chloride
Concen: 0.48 ug/l
RT: 4.56 min Scan# 923
Delta R.T. 0.01 min
Lab File: VN050662.D
Acq: 15 Aug 2018 18:07

Tgt Ion: 84 Resp: 12414
Ion Ratio Lower Upper
84 100
49 103.8 92.6 138.8
51 32.4 28.6 43.0
86 61.1 52.2 78.2





#25

2-Butanone

Concen: 1.70 ug/l

RT: 6.85 min Scan# 1636

Delta R.T. 0.01 min

Lab File: VN050662.D

Acq: 15 Aug 2018 18:07

Instrument :

MSVOA_N

ClientSampleId :

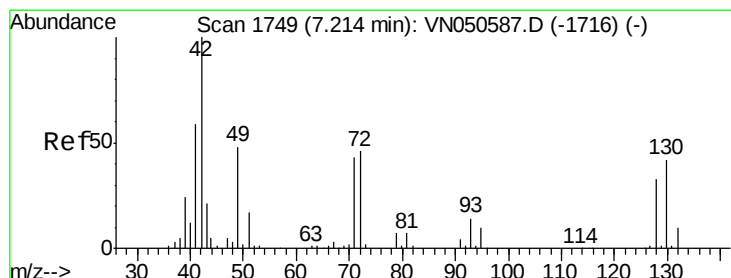
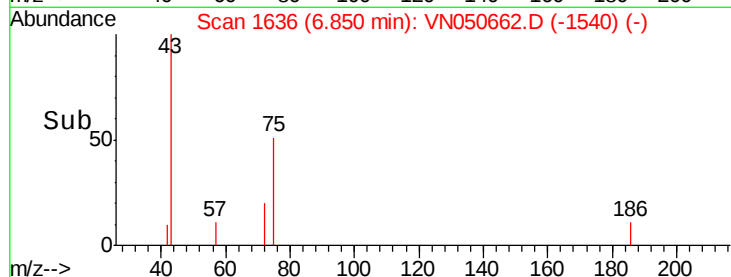
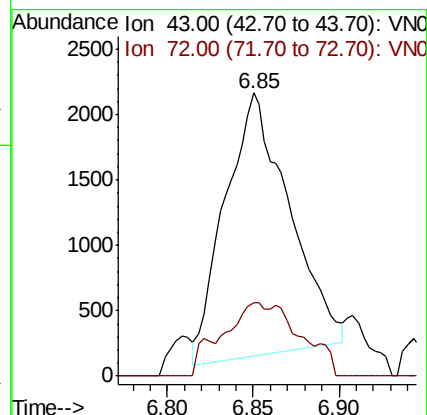
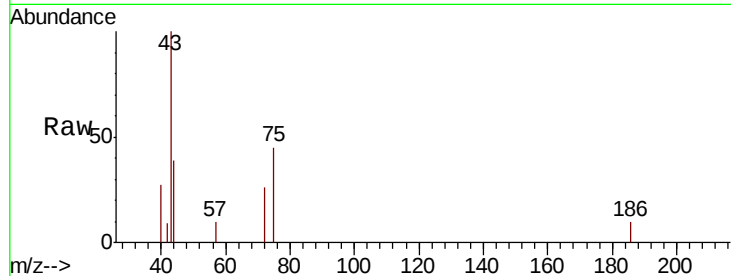
PB1112055ZHE#02

Tot Ion: 43 Resp: 5229

Ion Ratio Lower Upper

43 100

72 29.6 21.8 32.6



#29

Tetrahydrofuran

Concen: 0.56 ug/l

RT: 7.23 min Scan# 1755

Delta R.T. 0.02 min

Lab File: VN050662.D

Acq: 15 Aug 2018 18:07

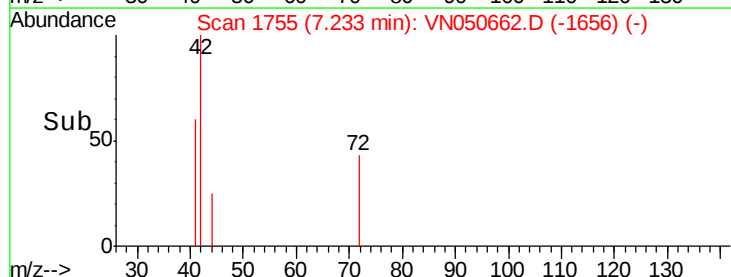
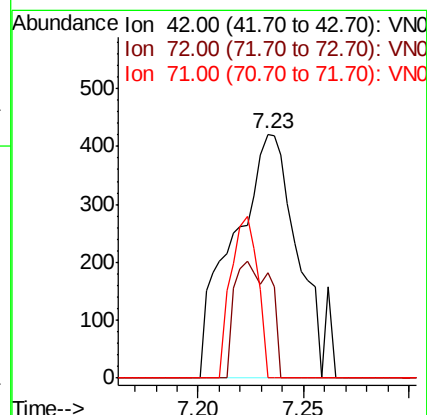
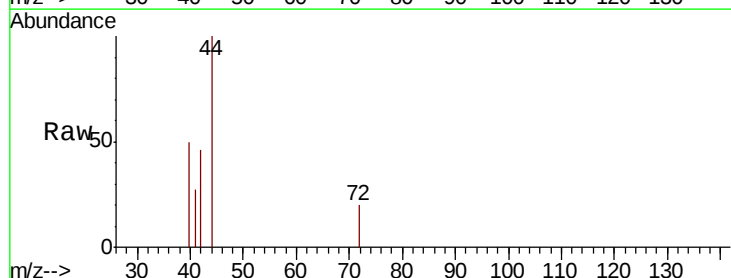
Tgt Ion: 42 Resp: 897

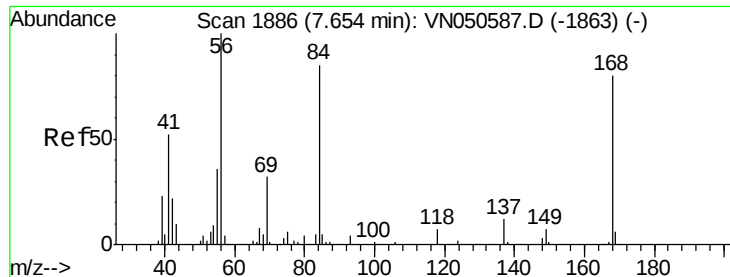
Ion Ratio Lower Upper

42 100

72 26.4 35.8 53.6#

71 27.2 33.4 50.0#

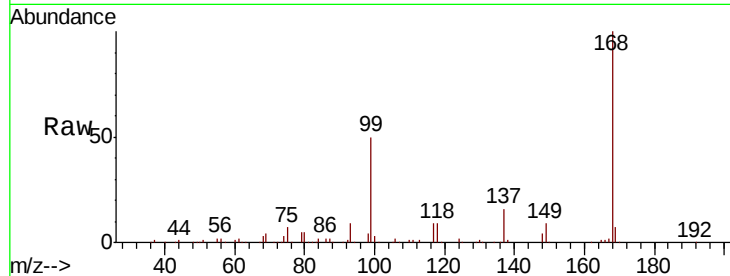




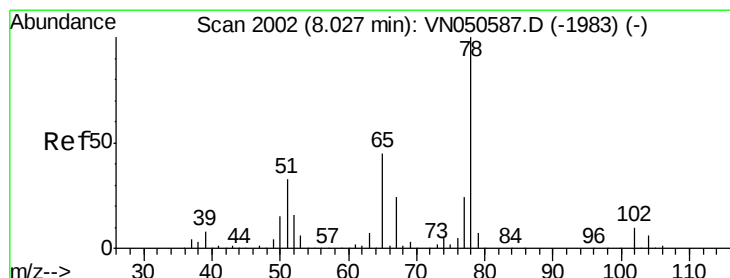
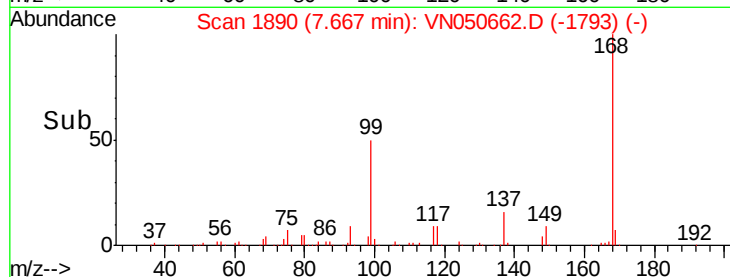
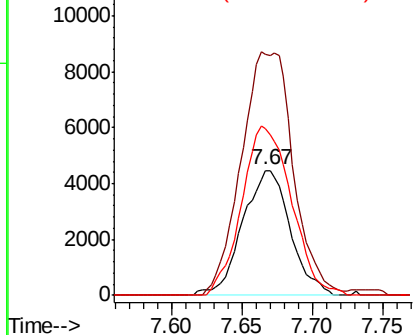
#31
Cvclohexane
Concen: 0.59 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN050662.D
Acq: 15 Aug 2018 18:07

Instrument :
MSVOA_N
ClientSampleId :
PB1112055ZHE#02

Tot Ion: 56 Resp: 10567
Ion Ratio Lower Upper
56 100
69 193.9 25.8 38.6#
84 133.8 67.8 101.6#

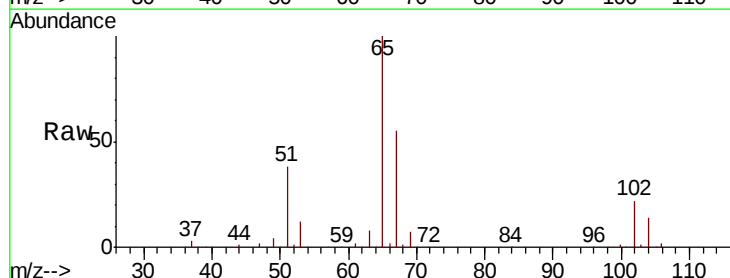


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

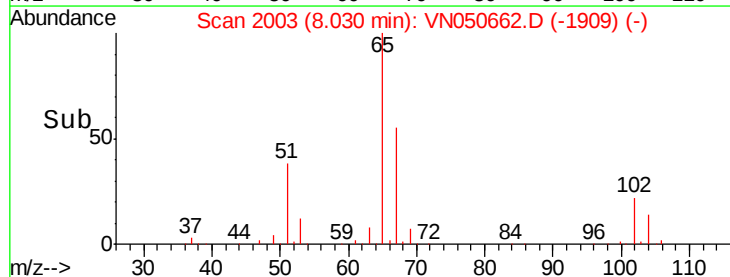
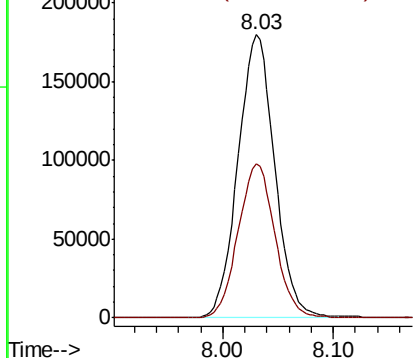


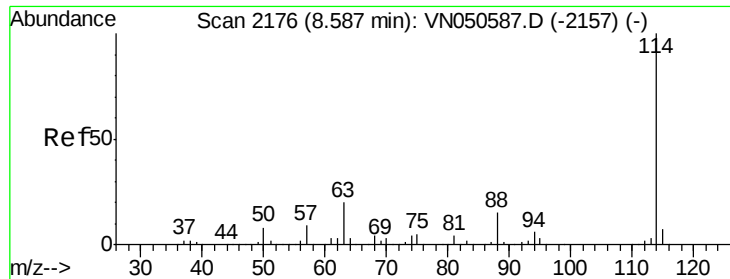
#33
1,2-Dichloroethane-d4
Concen: 55.32 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN050662.D
Acq: 15 Aug 2018 18:07

Tgt Ion: 65 Resp: 414616
Ion Ratio Lower Upper
65 100
67 54.5 0.0 109.8



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

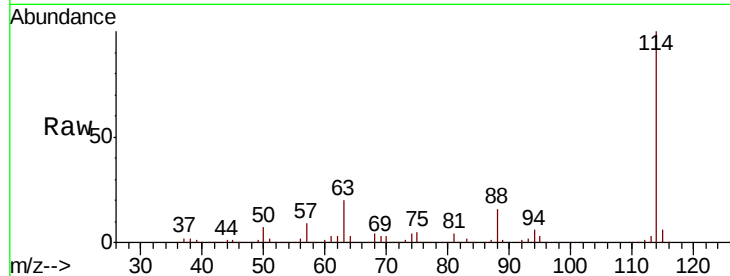




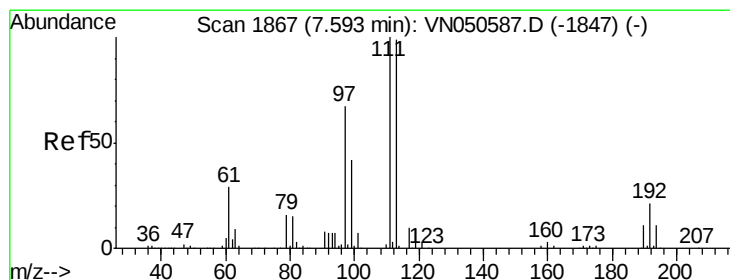
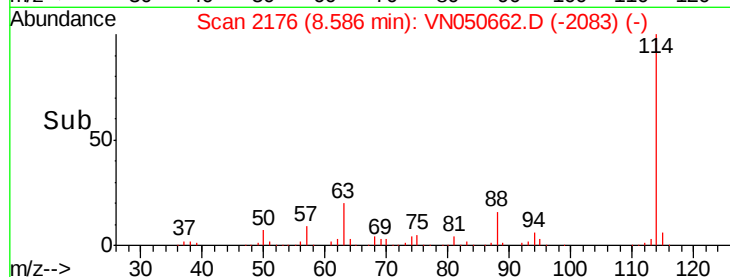
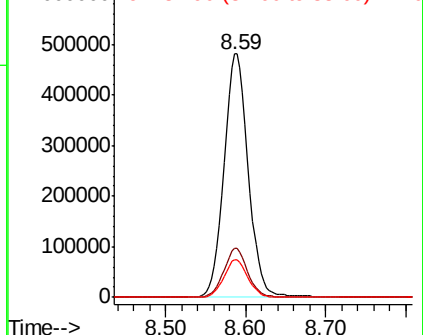
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN050662.D
 Acq: 15 Aug 2018 18:07

Instrument :
 MSVOA_N
 ClientSampleId :
 PB1112055ZHE#02

Tot Ion:114 Resp: 1003642
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 40.0
 88 15.6 0.0 30.8

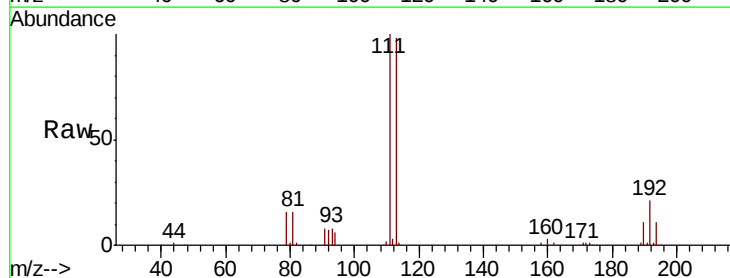


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

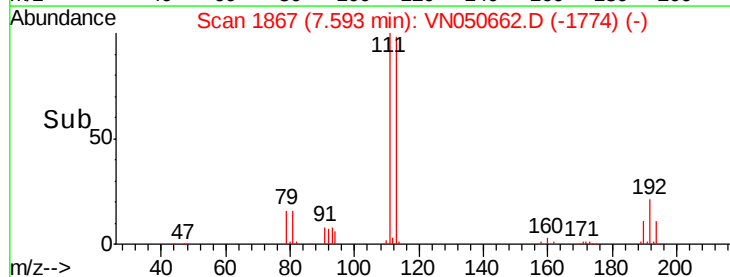
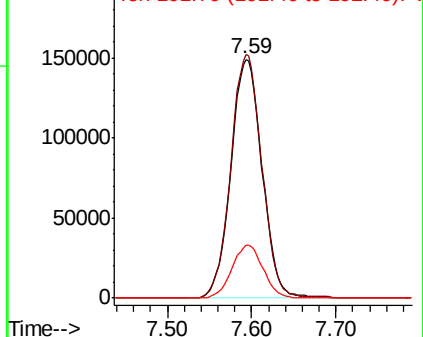


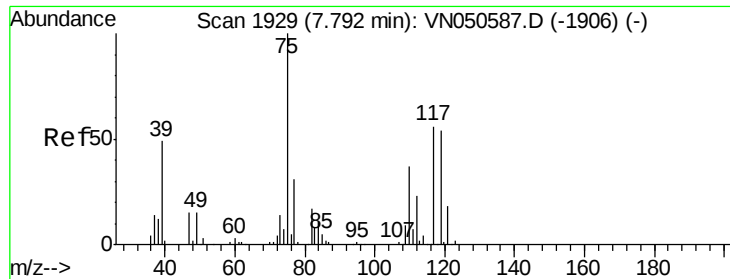
#35
 Dibromofluoromethane
 Concen: 47.84 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050662.D
 Acq: 15 Aug 2018 18:07

Tgt Ion:113 Resp: 383335
 Ion Ratio Lower Upper
 113 100
 111 101.2 81.0 121.6
 192 22.2 17.6 26.4



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

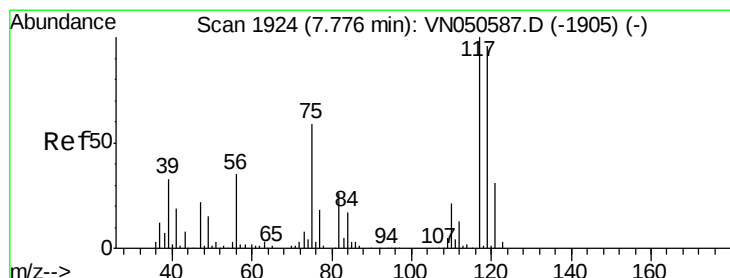
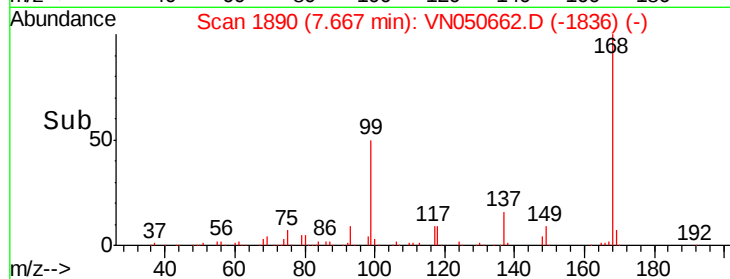
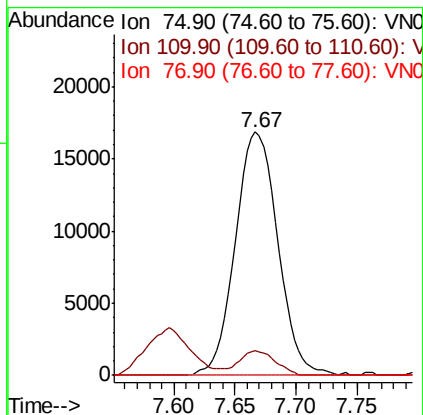
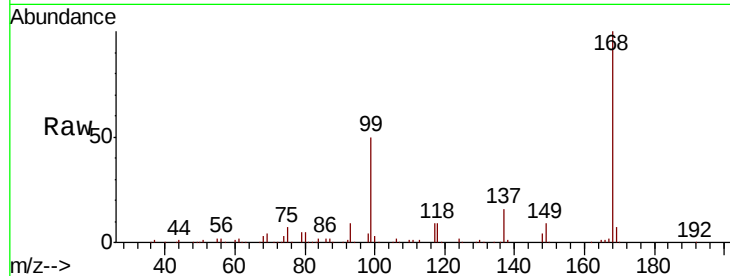




#36
 1,1-Dichloropropene
 Concen: 3.65 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050662.D
 Acq: 15 Aug 2018 18:07

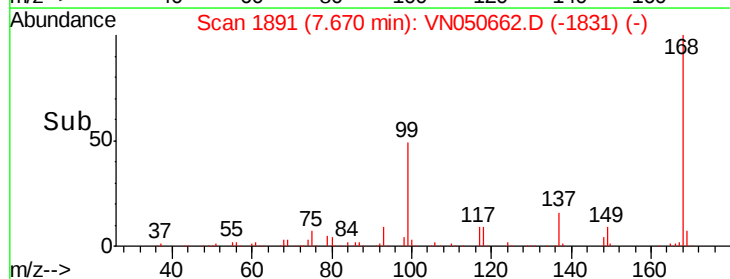
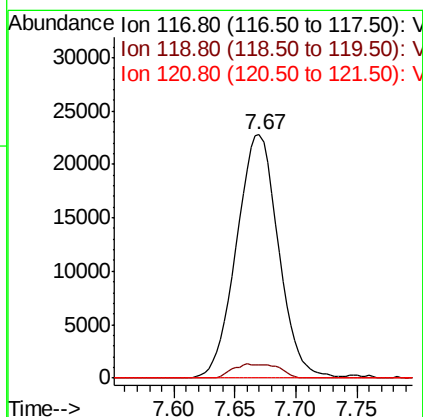
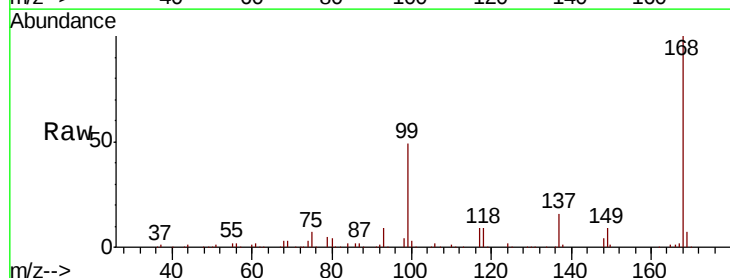
Instrument :
 MSVOA_N
 ClientSampleId :
 PB1112055ZHE#02

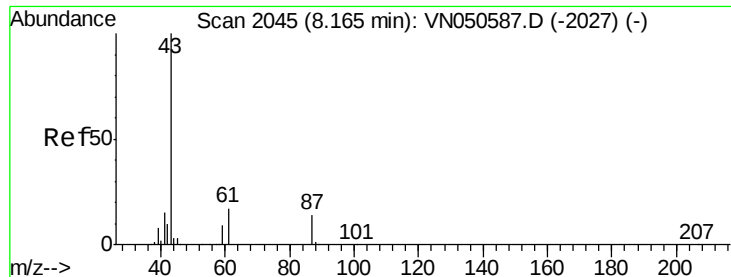
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.6	18.3	54.9#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 4.68 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.11 min
 Lab File: VN050662.D
 Acq: 15 Aug 2018 18:07

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.2	76.6	115.0#
121	0.0	25.0	37.6#



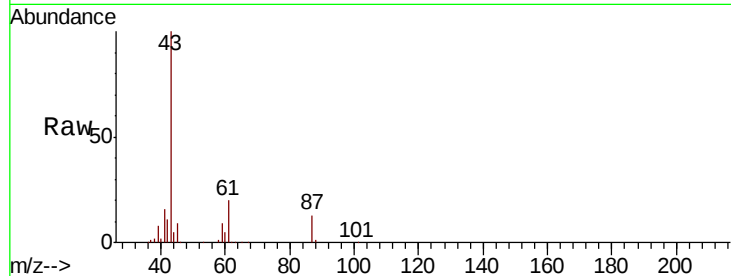


#43

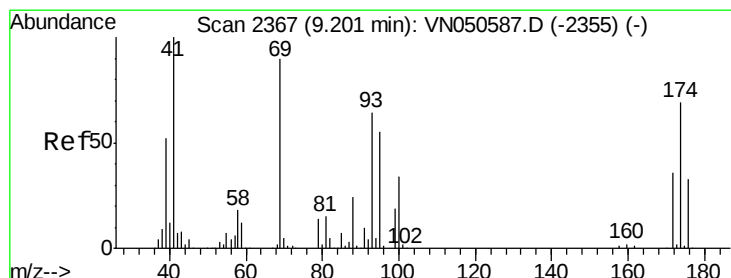
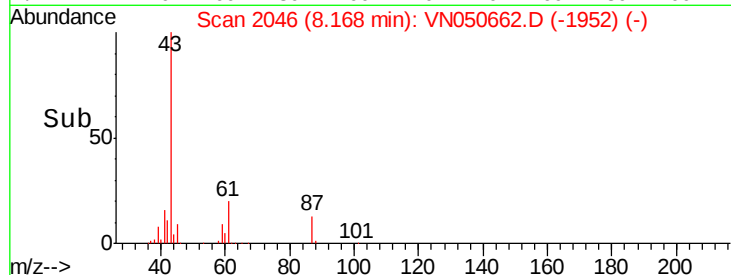
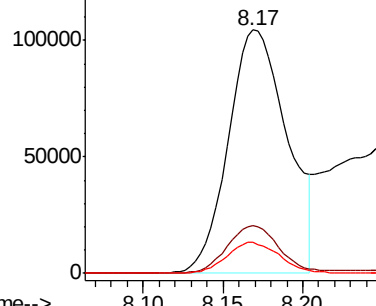
Isopropyl Acetate
 Concen: 23.24 ug/l
 RT: 8.17 min Scan# 2046
 Delta R.T. 0.00 min
 Lab File: VN050662.D
 Acq: 15 Aug 2018 18:07

Instrument :
 MSVOA_N
 ClientSampleId :
 PB1112055ZHE#02

Tot Ion	Ratio	Lower	Upper
43	100		
61	17.7	16.2	24.2
87	11.5	10.9	16.3



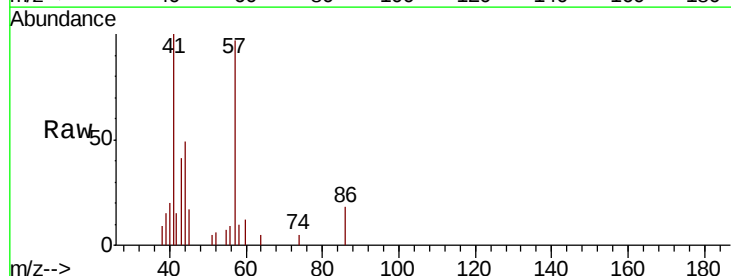
Abundance Ion 43.00 (42.70 to 43.70): VNO
 Ion 61.00 (60.70 to 61.70): VNO
 Ion 87.00 (86.70 to 87.70): VNO



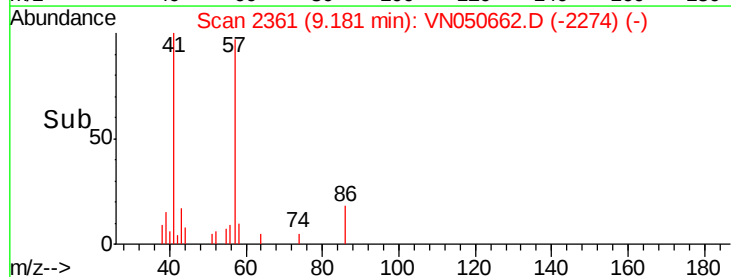
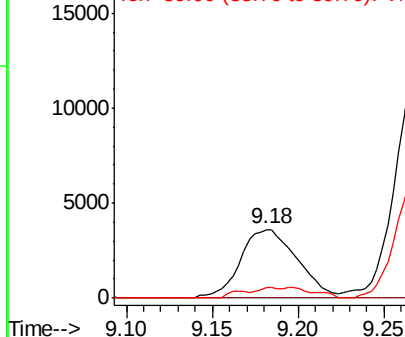
#48

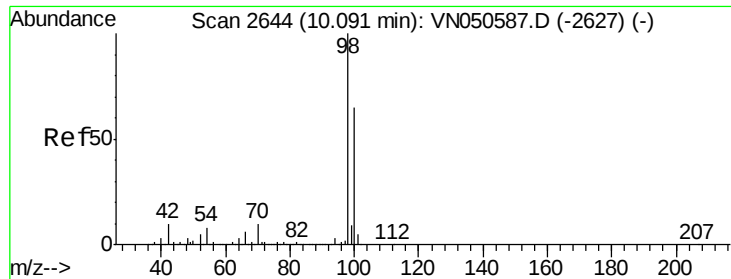
Methyl methacrylate
 Concen: 1.43 ug/l
 RT: 9.18 min Scan# 2361
 Delta R.T. -0.02 min
 Lab File: VN050662.D
 Acq: 15 Aug 2018 18:07

Tgt Ion	Ratio	Lower	Upper
41	100		
69	0.0	73.4	110.0#
39	0.0	43.0	64.6#



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





#50

Toluene-d8

Concen: 45.30 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. -0.00 min

Lab File: VN050662.D

Acq: 15 Aug 2018 18:07

Instrument :

MSVOA_N

ClientSampleId :

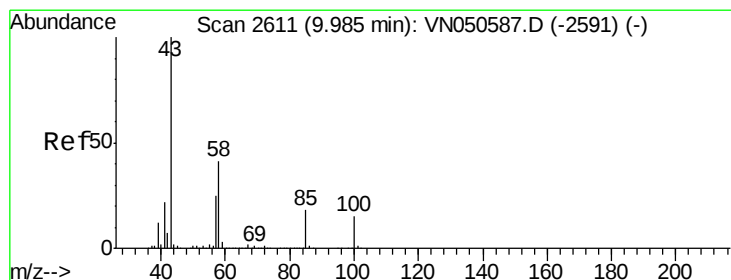
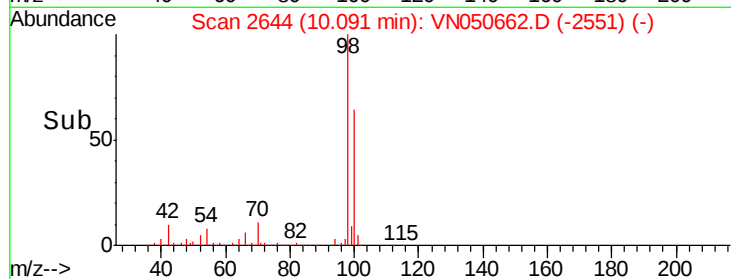
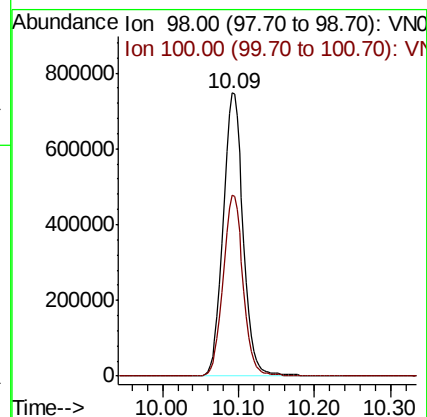
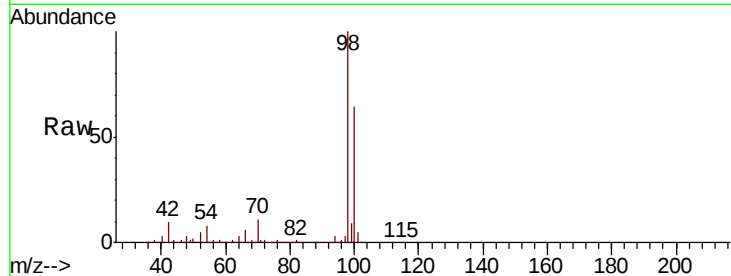
PB1112055ZHE#02

Tot Ion: 98 Resp: 1366153

Ion Ratio Lower Upper

98 100

100 63.6 51.8 77.8



#51

4-Methyl-2-Pentanone

Concen: 0.22 ug/l

RT: 9.99 min Scan# 2612

Delta R.T. 0.00 min

Lab File: VN050662.D

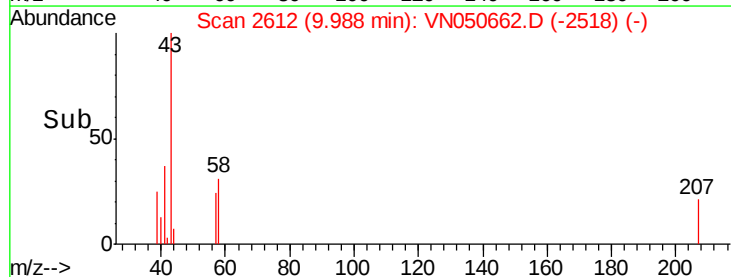
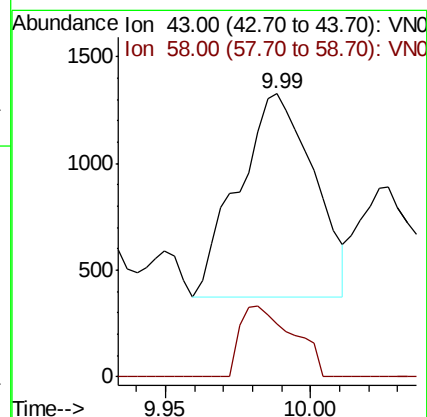
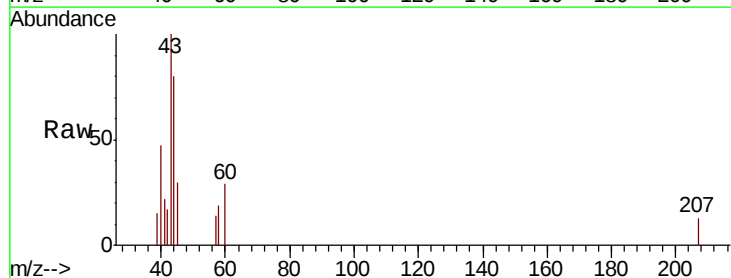
Acq: 15 Aug 2018 18:07

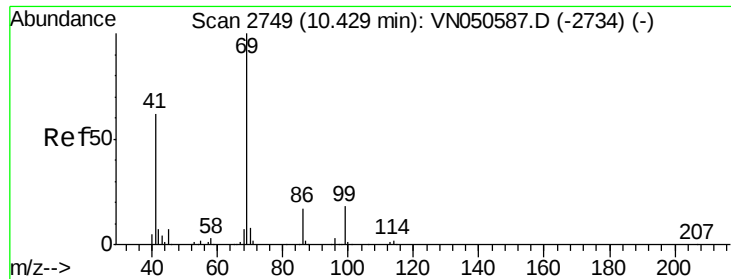
Tgt Ion: 43 Resp: 1731

Ion Ratio Lower Upper

43 100

58 24.4 32.5 48.7#





#56

Ethyl methacrylate

Concen: 2.14 ug/l

RT: 10.23 min Scan# 2687

Delta R.T. -0.20 min

Lab File: VN050662.D

Acq: 15 Aug 2018 18:07

Instrument :

MSVOA_N

ClientSampleId :

PB1112055ZHE#02

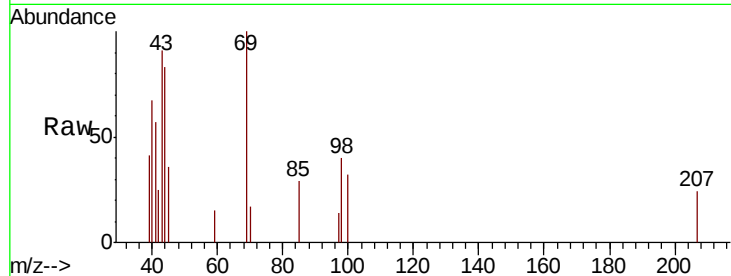
Tot Ion: 69 Resp: 2415

Ion Ratio Lower Upper

69 100

41 43.1 49.7 74.5#

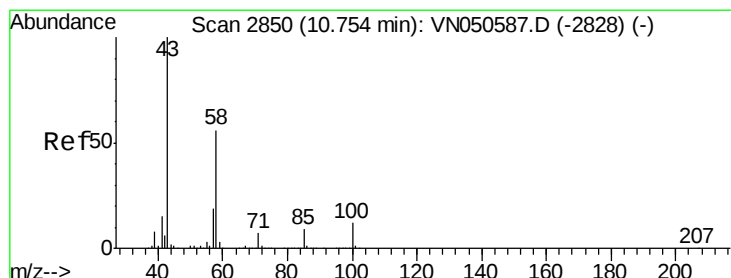
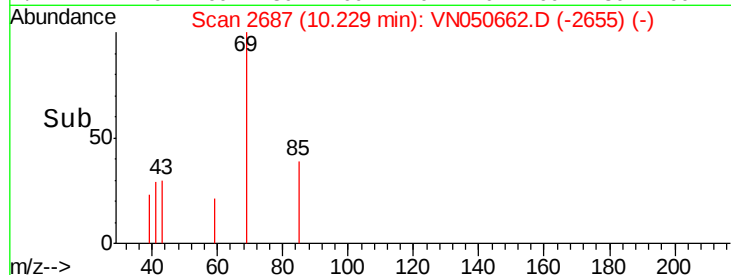
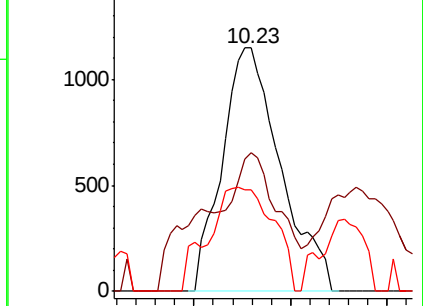
39 47.1 24.2 36.2#



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



#59

2-Hexanone

Concen: 3.77 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050662.D

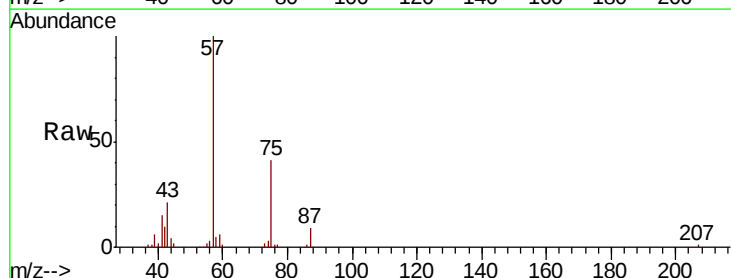
Acq: 15 Aug 2018 18:07

Tgt Ion: 43 Resp: 18956

Ion Ratio Lower Upper

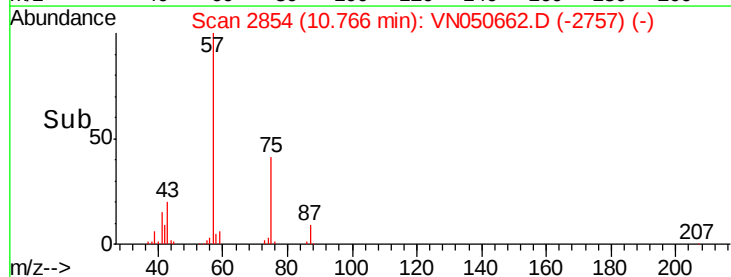
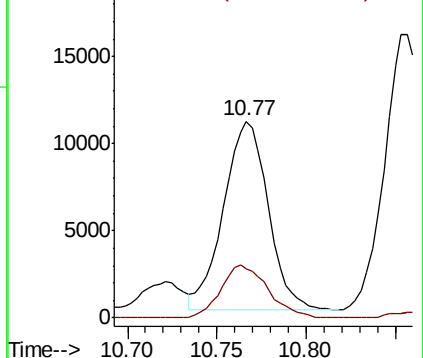
43 100

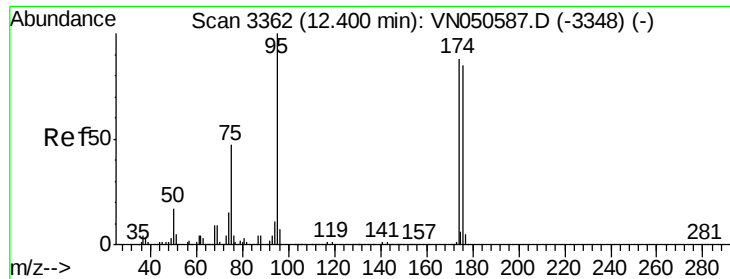
58 29.4 28.0 84.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 38.72 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050662.D

Acq: 15 Aug 2018 18:07

Instrument :

MSVOA_N

ClientSampleId :

PB1112055ZHE#02

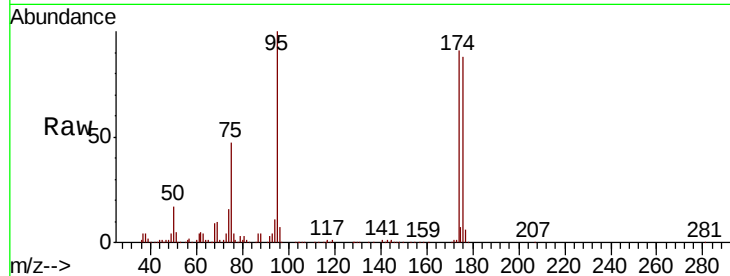
Tot Ion: 95 Resp: 385757

Ion Ratio Lower Upper

95 100

174 91.4 0.0 177.8

176 87.5 0.0 175.0



Abundance Ion 94.90 (94.60 to 95.60): VN050587.D (-3348) (-)

Ion 173.80 (173.50 to 174.50): VN050587.D (-3348) (-)

Ion 175.80 (175.50 to 176.50): VN050587.D (-3348) (-)

12.40

200000

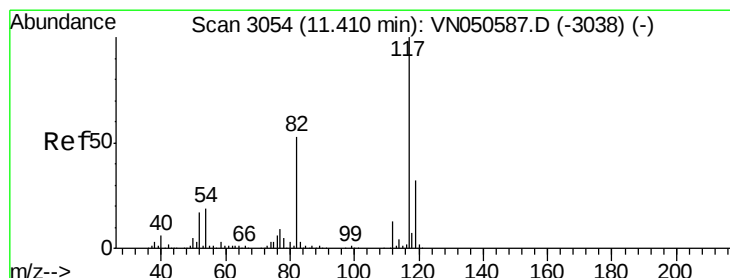
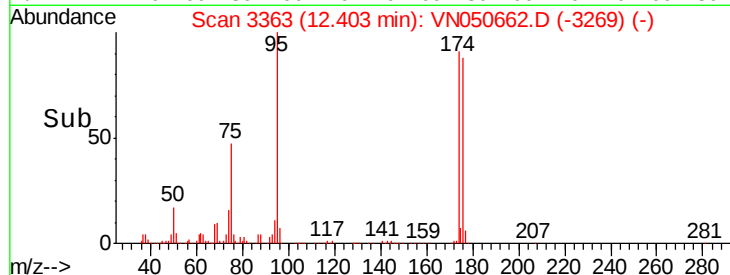
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VN050662.D

Acq: 15 Aug 2018 18:07

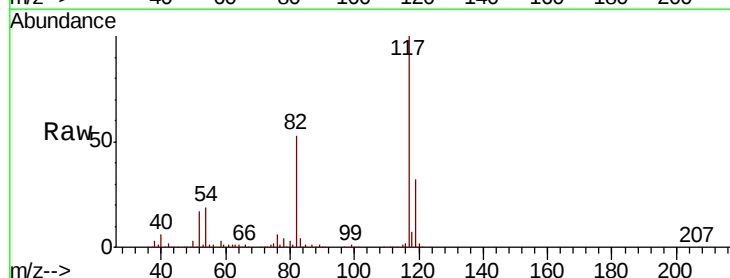
Tgt Ion: 117 Resp: 860918

Ion Ratio Lower Upper

117 100

82 53.4 42.4 63.6

119 32.1 25.8 38.8



Abundance Ion 116.90 (116.60 to 117.60): VN050587.D (-3038) (-)

Ion 82.00 (81.70 to 82.70): VN050587.D (-3038) (-)

Ion 118.90 (118.60 to 119.60): VN050587.D (-3038) (-)

11.41

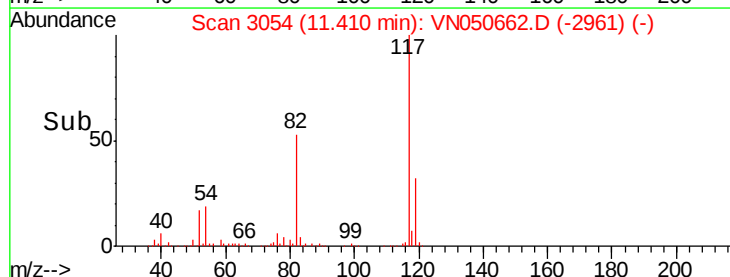
600000

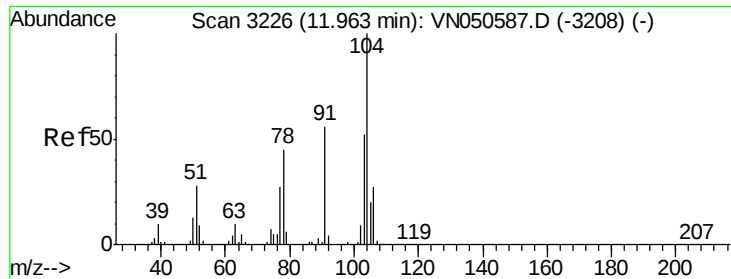
400000

200000

0

Time--> 11.30 11.40 11.50





#70

Stvrene

Concen: 0.95 ug/l

RT: 11.97 min Scan# 3227

Delta R.T. 0.00 min

Lab File: VN050662.D

Acq: 15 Aug 2018 18:07

Instrument :

MSVOA_N

ClientSampleId :

PB1112055ZHE#02

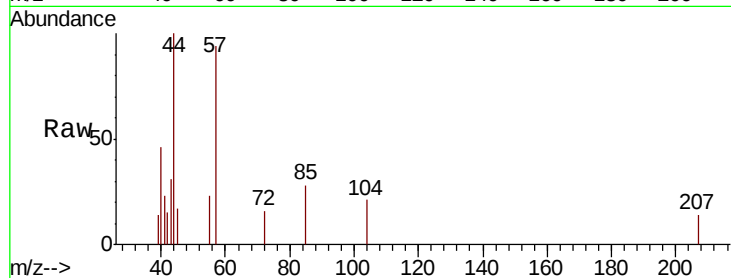
Tot Ion:104 Resp: 194

Ion Ratio Lower Upper

104 100

78 0.0 39.1 58.7#

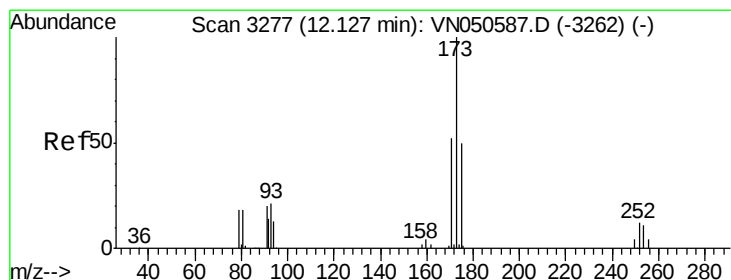
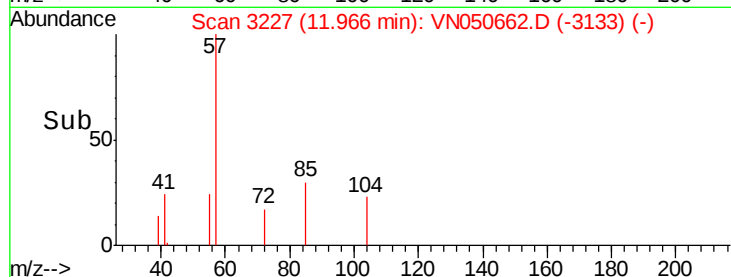
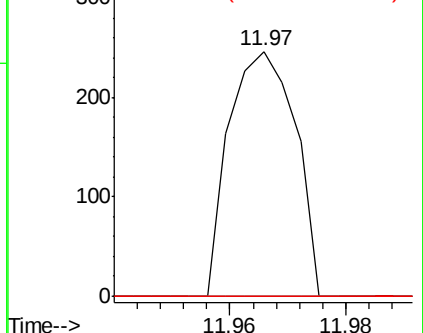
103 0.0 44.9 67.3#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V



#71

Bromoform

Concen: 0.68 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.28 min

Lab File: VN050662.D

Acq: 15 Aug 2018 18:07

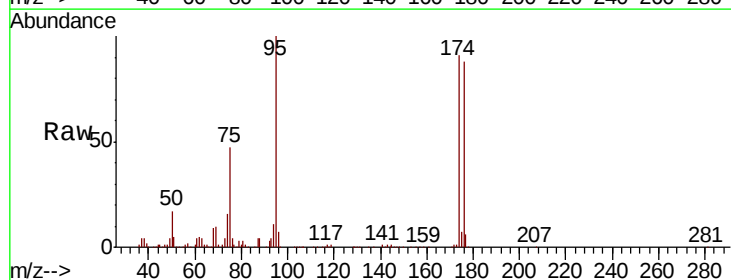
Tgt Ion:173 Resp: 3637

Ion Ratio Lower Upper

173 100

175 601.7 24.4 73.2#

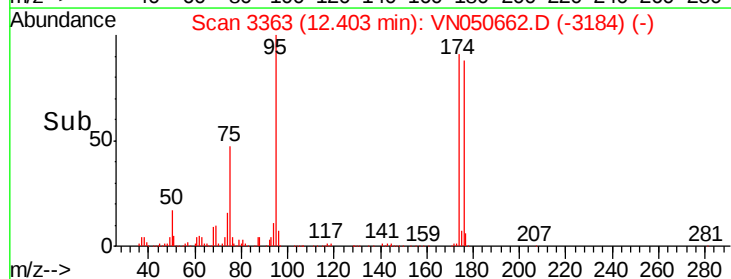
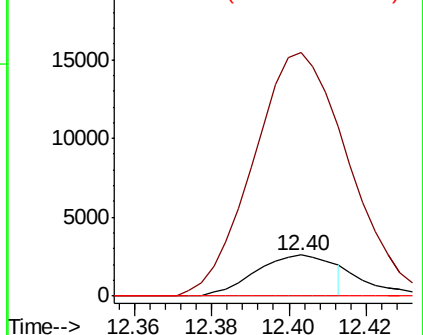
254 0.0 0.0 0.0

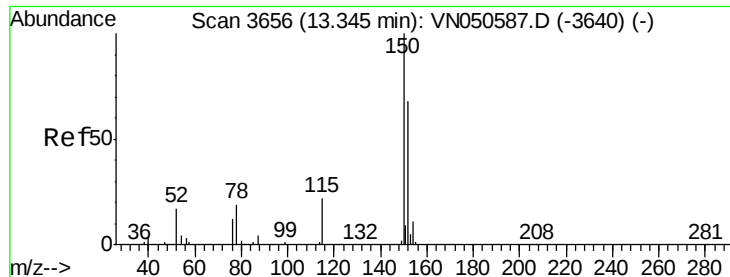


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN050662.D

Acq: 15 Aug 2018 18:07

Instrument :

MSVOA_N

ClientSampleId :

PB1112055ZHE#02

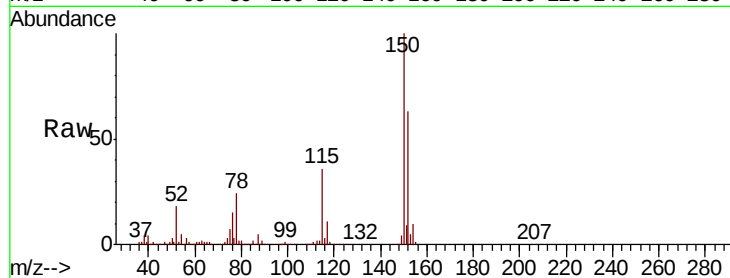
Tot Ion:152 Resp: 319042

Ion Ratio Lower Upper

152 100

115 57.3 28.1 84.2

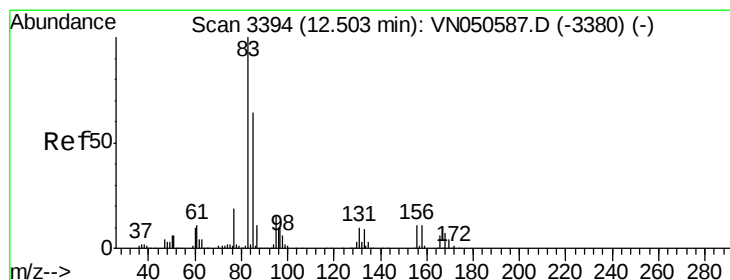
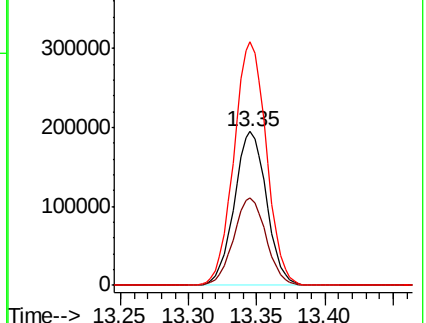
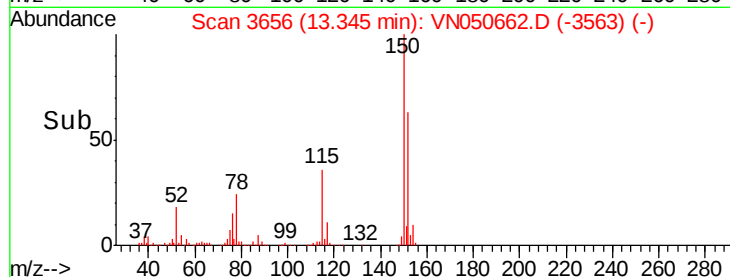
150 159.6 0.0 347.8



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: 12.40 min Scan# 3363

Delta R.T. -0.10 min

Lab File: VN050662.D

Acq: 15 Aug 2018 18:07

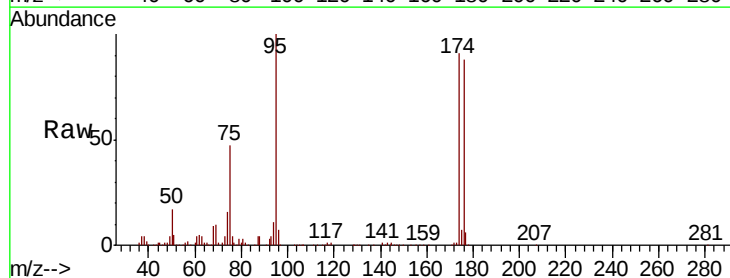
Tgt Ion: 83 Resp: 130

Ion Ratio Lower Upper

83 100

131 292.3 5.3 15.9#

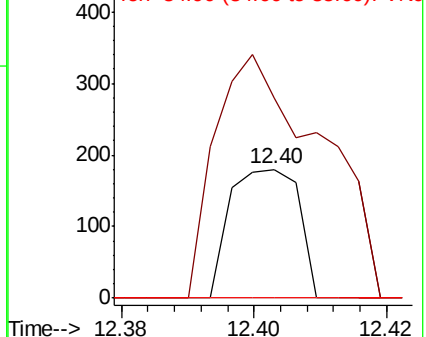
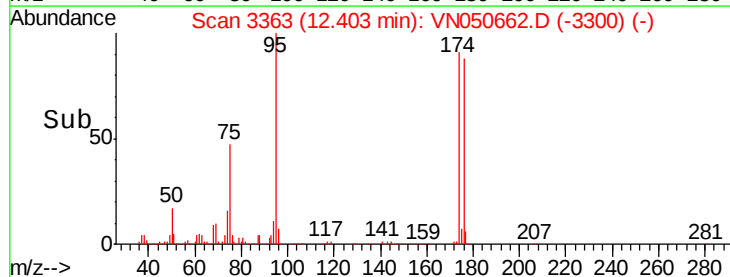
85 0.0 32.1 96.5#

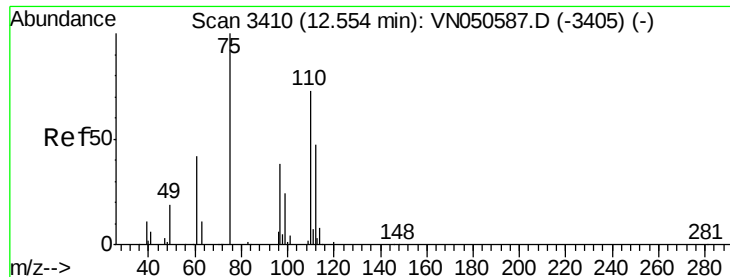


Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VNO





#76

1,2,3-Trichloropropane

Concen: 34.51 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050662.D

Acq: 15 Aug 2018 18:07

Instrument :

MSVOA_N

ClientSampleId :

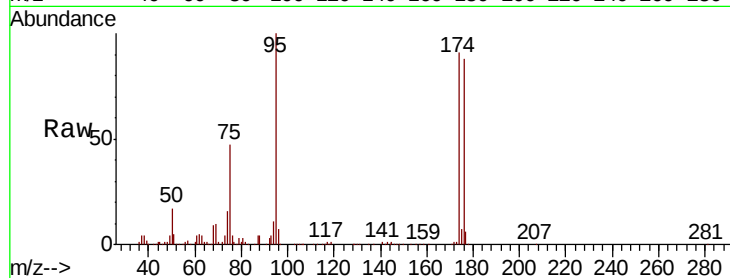
PB1112055ZHE#02

Tot Ion: 75 Resp: 179530

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.40

120000

100000

80000

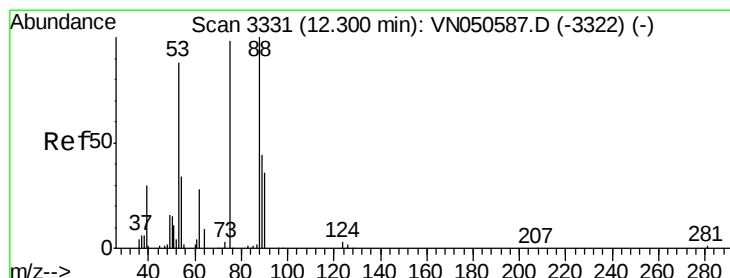
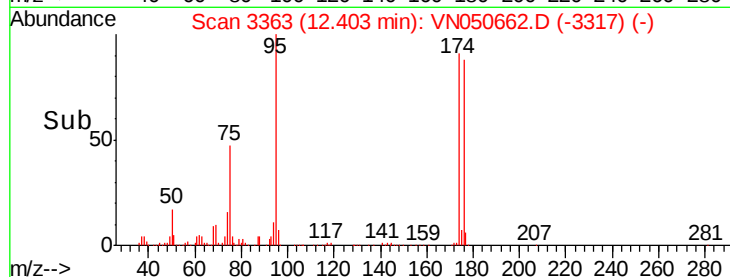
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 125.10 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050662.D

Acq: 15 Aug 2018 18:07

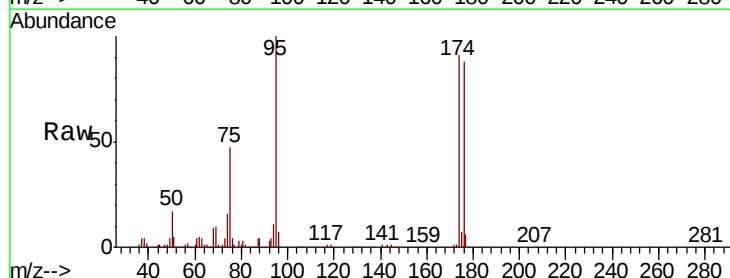
Tgt Ion: 75 Resp: 179530

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): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

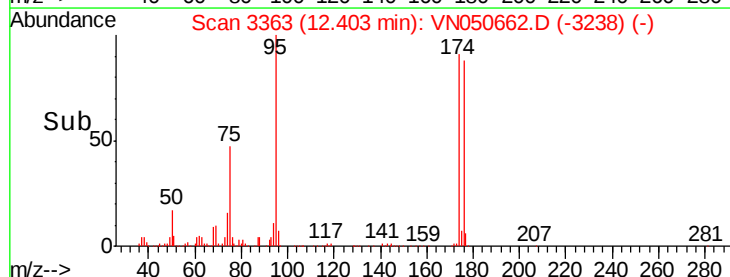
12.40

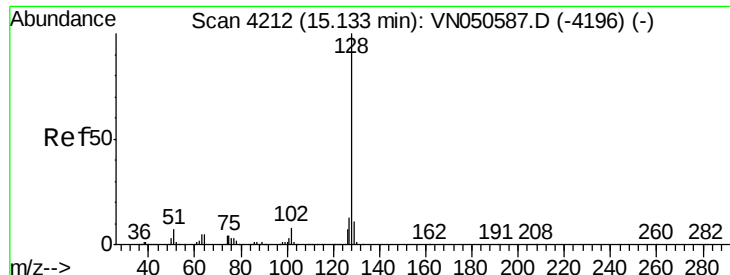
100000

50000

0

Time-->





#95
Naphthalene
Concen: 3.87 ug/l
RT: 15.14 min Scan# 4214
Delta R.T. 0.01 min
Lab File: VN050662.D
Acq: 15 Aug 2018 18:07

Instrument :
MSVOA_N
ClientSampleId :
PB1112055ZHE#02

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

