

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121118\
 Data File : VN052804.D
 Acq On : 11 Dec 2018 16:08
 Operator : MD\SY
 Sample : PB115504ZHE#09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115504ZHE#09

Quant Time: Dec 12 00:29:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112718W.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 03 03:24:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1180716	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1835891	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1664823	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	686154	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	622193	48.40	ug/l	0.00
Spiked Amount			Recovery	=	96.80%	
35) Dibromofluoromethane	7.59	113	520413	45.98	ug/l	0.00
Spiked Amount			Recovery	=	91.96%	
50) Toluene-d8	10.09	98	2267957	51.48	ug/l	0.00
Spiked Amount			Recovery	=	102.96%	
62) 4-Bromofluorobenzene	12.40	95	746545	50.43	ug/l	0.00
Spiked Amount			Recovery	=	100.86%	

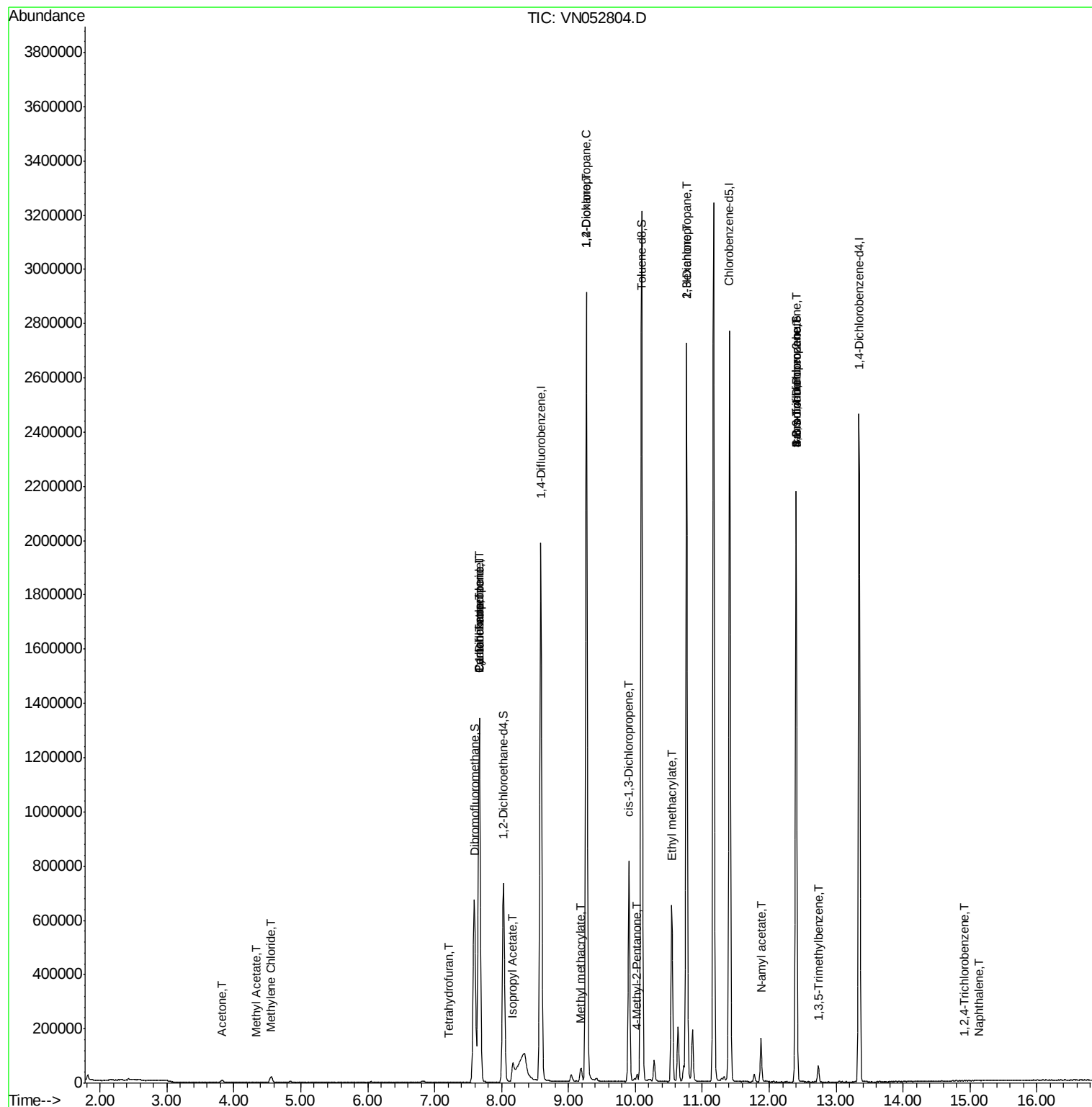
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	12713	3.749	ug/l	98
18) Methyl Acetate	4.33	43	5643	0.580	ug/l #	90
20) Methylene Chloride	4.55	84	15349	1.157	ug/l	94
29) Tetrahydrofuran	7.21	42	741	0.239	ug/l #	59
31) Cyclohexane	7.66	56	20484	0.564	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	77957	4.497	ug/l #	50
38) Carbon Tetrachloride	7.67	117	106001	6.754	ug/l #	16
43) Isopropyl Acetate	8.17	43	92420	5.162	ug/l #	72
45) 1,2-Dichloropropane	9.27	63	3435	0.250	ug/l #	43
48) Methyl methacrylate	9.18	41	17857	1.913	ug/l #	13
49) 1,4-Dioxane	9.27	88	351	3.622	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	21967	2.187	ug/l #	36
54) cis-1,3-Dichloropropene	9.90	75	151953	7.972	ug/l #	61
56) Ethyl methacrylate	10.54	69	2064	2.823	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	28591	1.500	ug/l #	43
59) 2-Hexanone	10.76	43	393882	58.417	ug/l #	51
71) Bromoform	12.40	173	4776	0.604	ug/l #	1
74) N-amyl acetate	11.88	43	49710	3.655	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	357977	33.832	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	32998	0.769	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	357977	112.984	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	62	2.834	ug/l #	1
95) Naphthalene	15.13	128	527	3.448	ug/l #	69

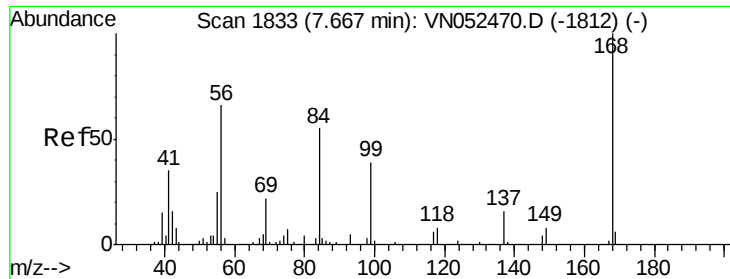
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 12 00:29:07 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N112718W.M
Quant Title : SW846 8260
QLast Update : Mon Dec 03 03:24:02 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN052804.D

Acq: 11 Dec 2018 16:08

Instrument :

MSVOA_N

ClientSampleId :

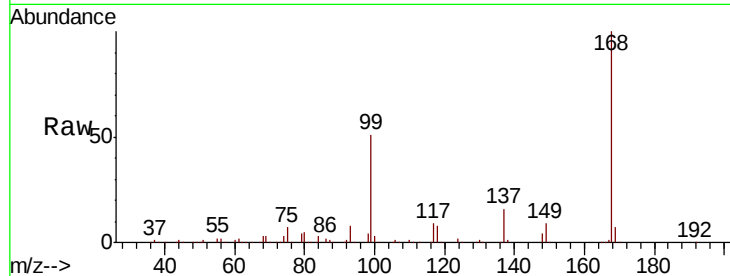
PB115504ZHE#09

Tot Ion:168 Resp: 1180716

Ion Ratio Lower Upper

168 100

99 50.6 41.7 62.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

500000

400000

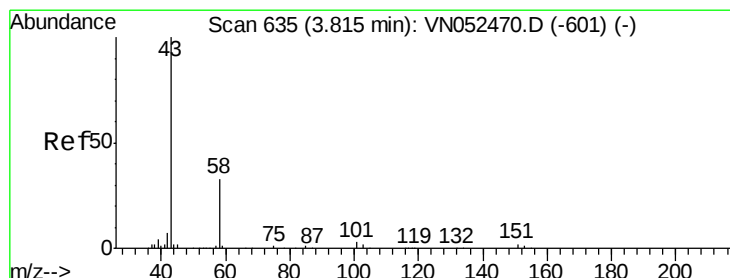
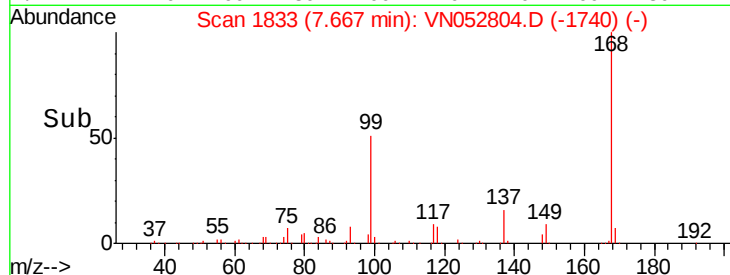
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80



#16

Acetone

Concen: 3.749 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN052804.D

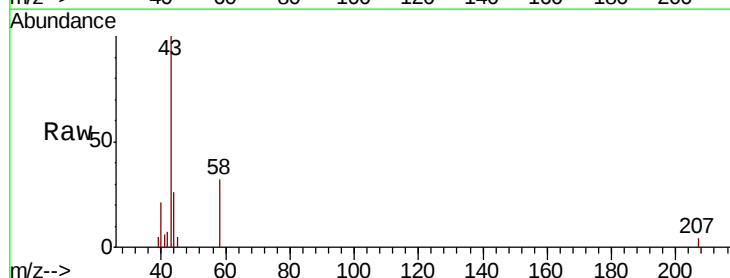
Acq: 11 Dec 2018 16:08

Tgt Ion: 43 Resp: 12713

Ion Ratio Lower Upper

43 100

58 33.7 26.0 39.0



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.82

6000

5000

4000

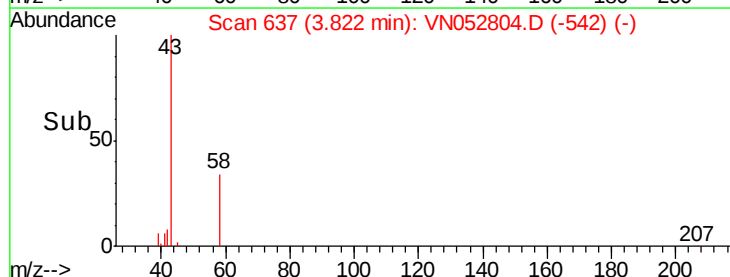
3000

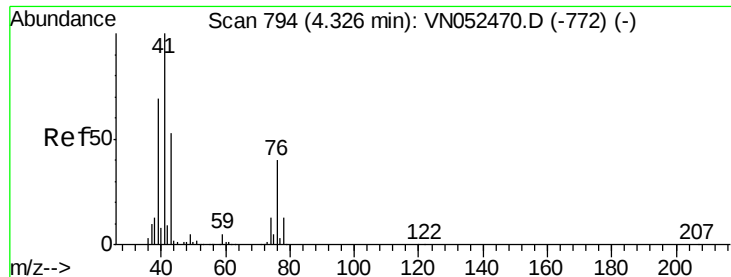
2000

1000

0

Time--> 3.75 3.80 3.85 3.90

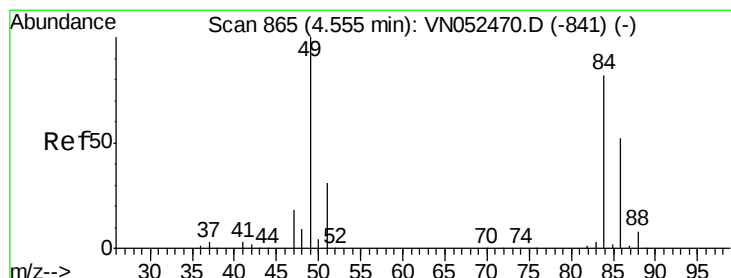
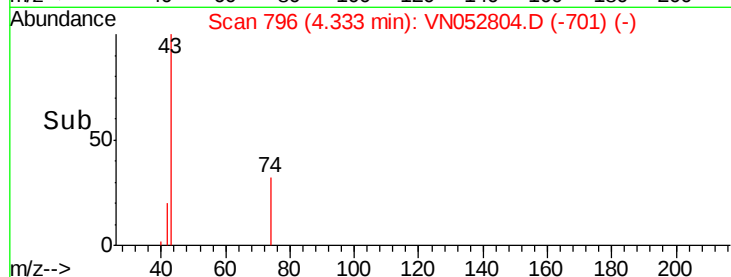
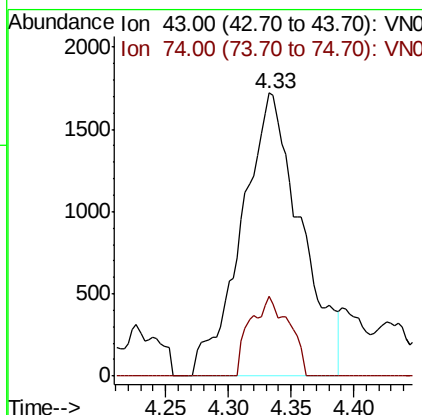
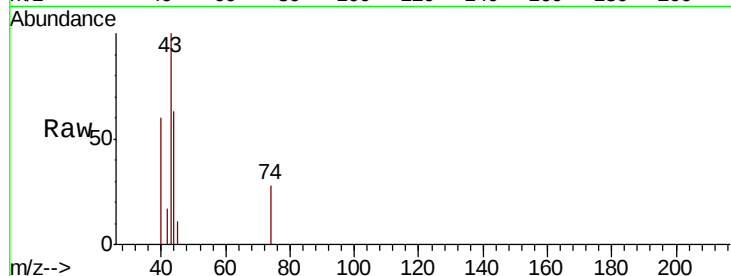




#18
Methyl Acetate
Concen: 0.580 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN052804.D
Acq: 11 Dec 2018 16:08

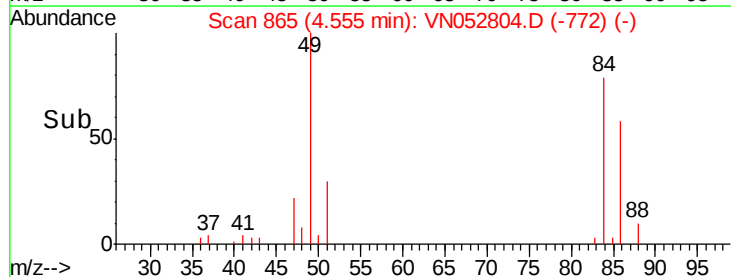
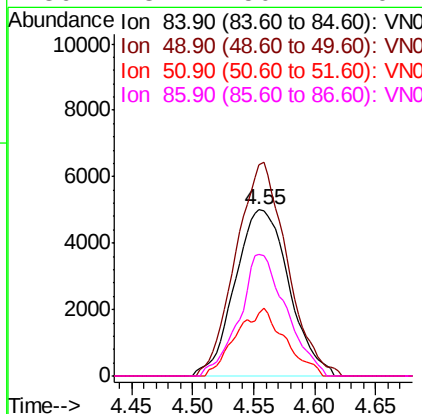
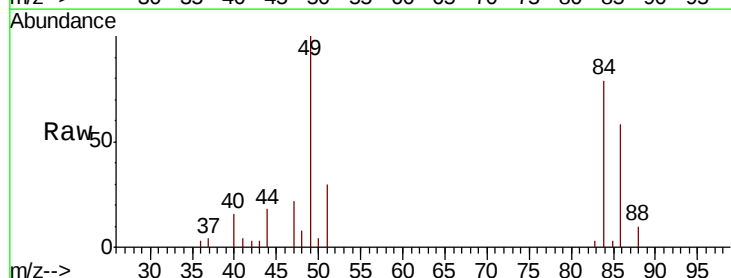
Instrument :
MSVOA_N
ClientSampleId :
PB115504ZHE#09

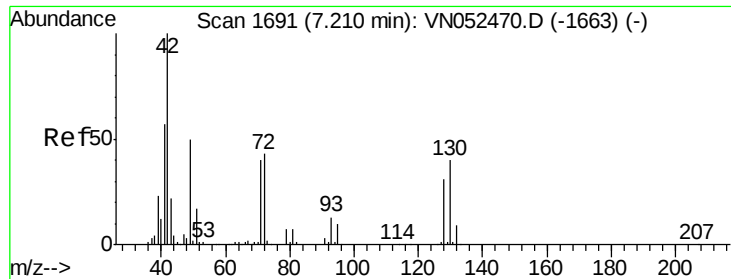
Tot Ion: 43 Resp: 5643
Ion Ratio Lower Upper
43 100
74 18.4 18.6 27.8#



#20
Methylene Chloride
Concen: 1.157 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN052804.D
Acq: 11 Dec 2018 16:08

Tgt Ion: 84 Resp: 15349
Ion Ratio Lower Upper
84 100
49 126.8 98.0 147.0
51 37.5 30.1 45.1
86 73.1 50.7 76.1

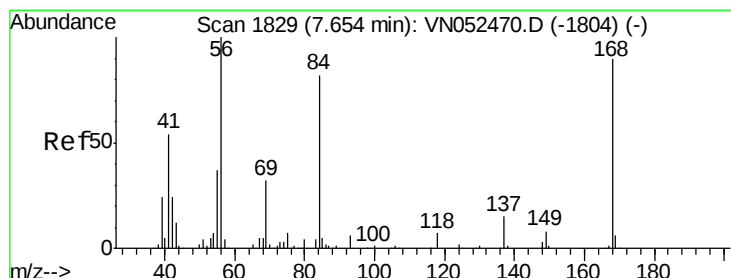
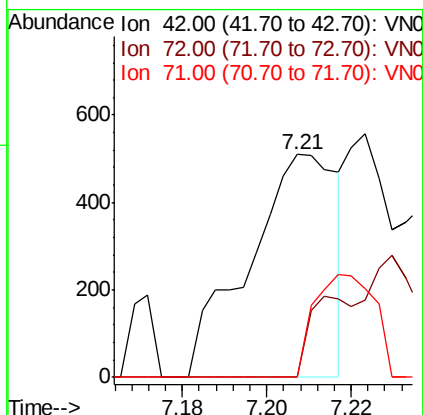
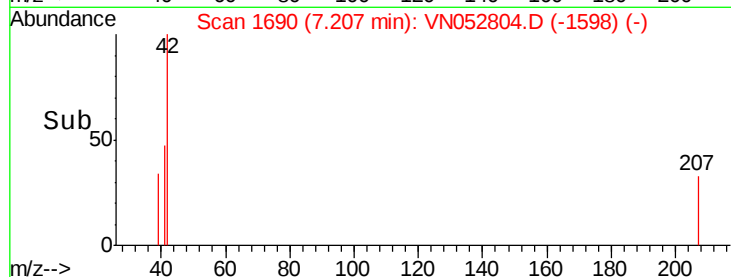
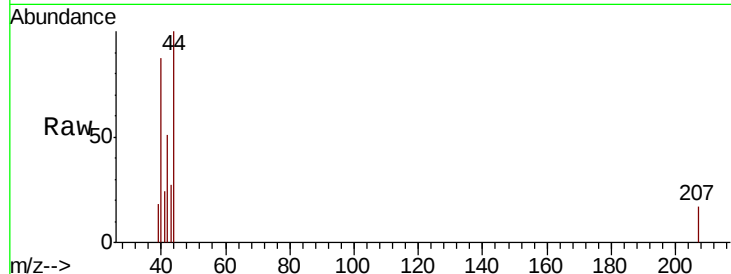




#29
Tetrahydrofuran
Concen: 0.239 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. -0.00 min
Lab File: VN052804.D
Acq: 11 Dec 2018 16:08

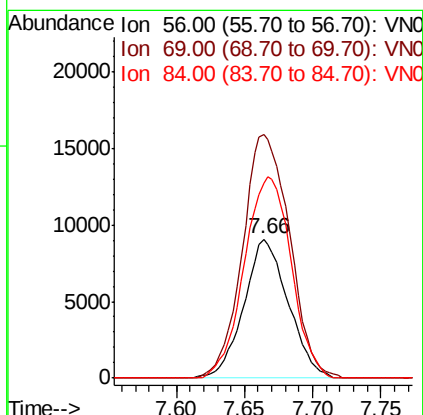
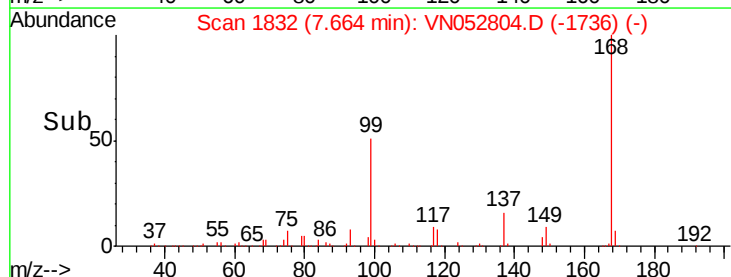
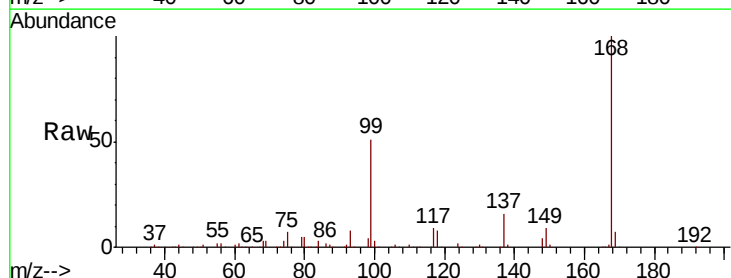
Instrument :
MSVOA_N
ClientSampleId :
PB115504ZHE#09

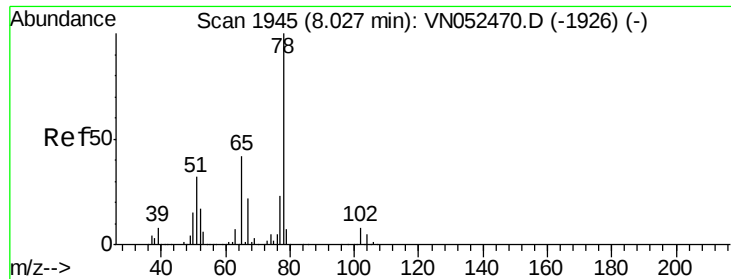
Tot Ion: 42 Resp: 741
Ion Ratio Lower Upper
42 100
72 0.0 33.3 49.9#
71 31.2 32.0 48.0#



#31
Cyclohexane
Concen: 0.564 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN052804.D
Acq: 11 Dec 2018 16:08

Tgt Ion: 56 Resp: 20484
Ion Ratio Lower Upper
56 100
69 175.6 25.8 38.6#
84 140.7 65.3 97.9#

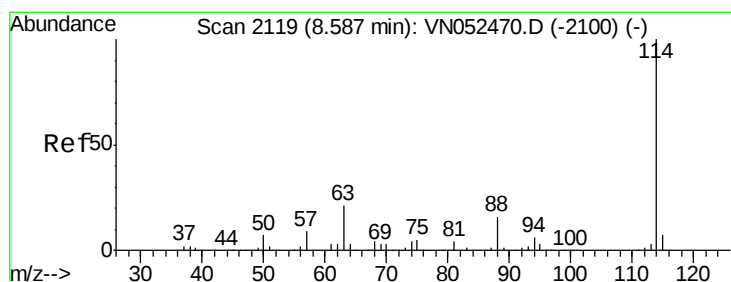
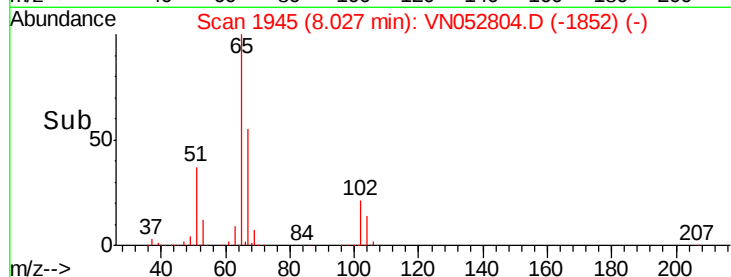
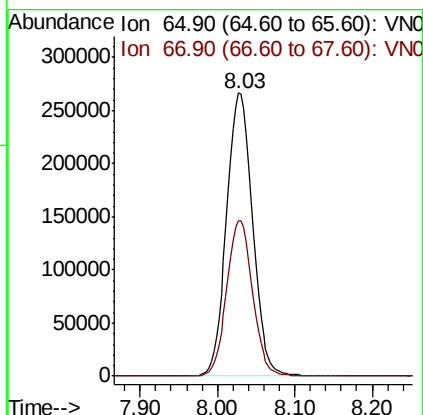
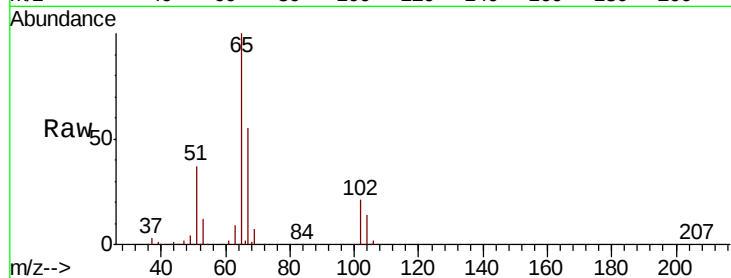




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052804.D
 Acq: 11 Dec 2018 16:08

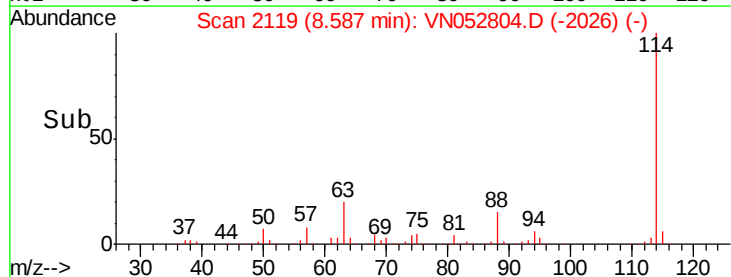
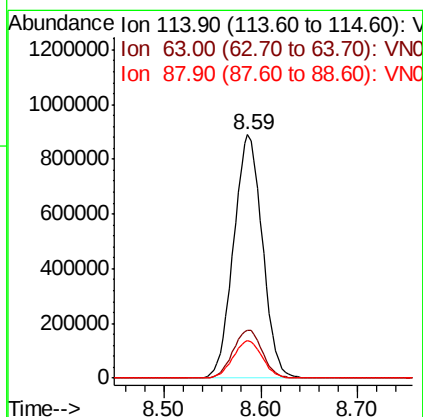
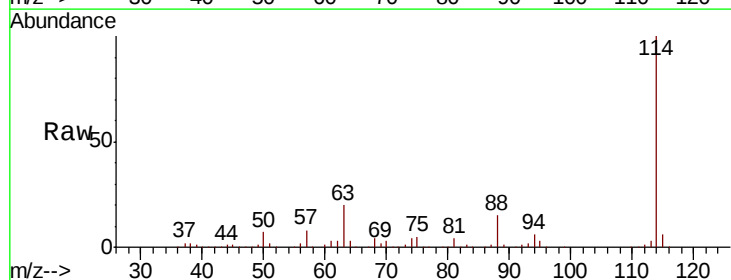
Instrument :
 MSVOA_N
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 PB115504ZHE#09

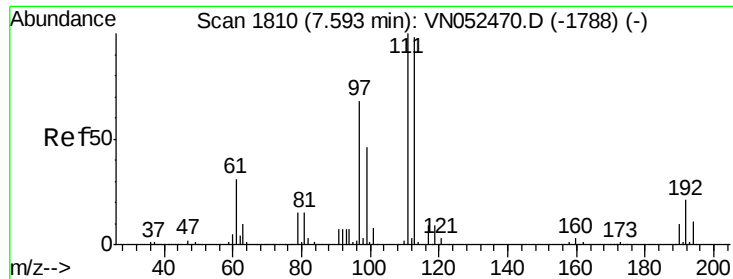
Tot Ion: 65 Resp: 622193
 Ion Ratio Lower Upper
 65 100
 67 54.5 0.0 109.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052804.D
 Acq: 11 Dec 2018 16:08

Tgt Ion: 114 Resp: 1835891
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 41.8
 88 15.5 0.0 31.6

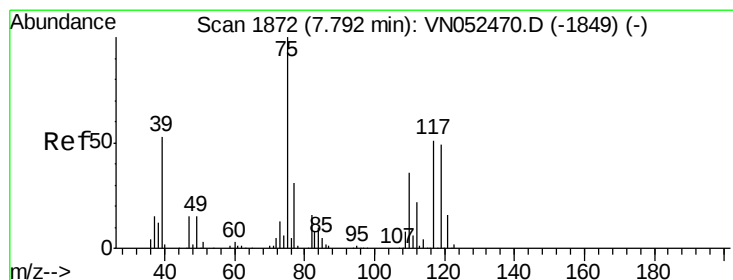
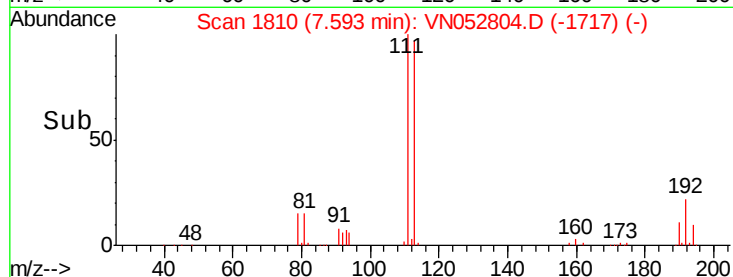
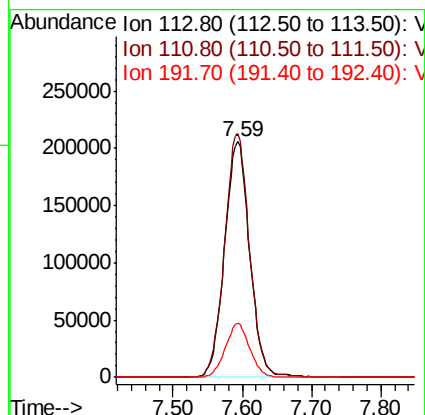
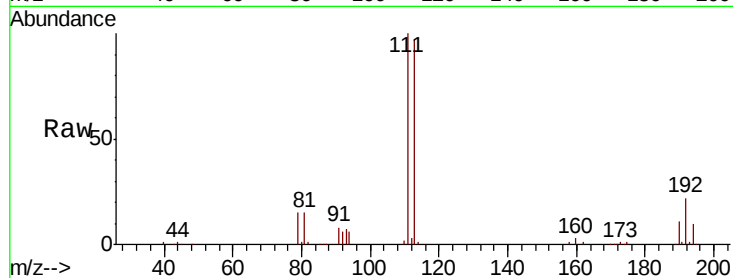




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN052804.D
 Acq: 11 Dec 2018 16:08

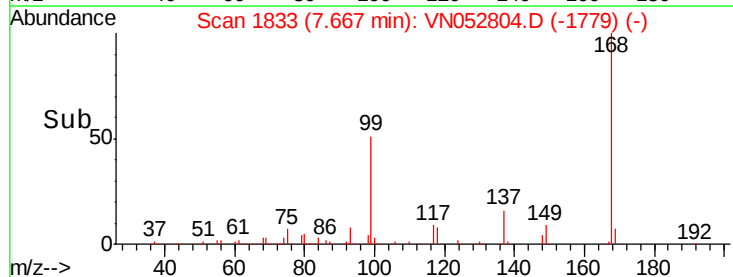
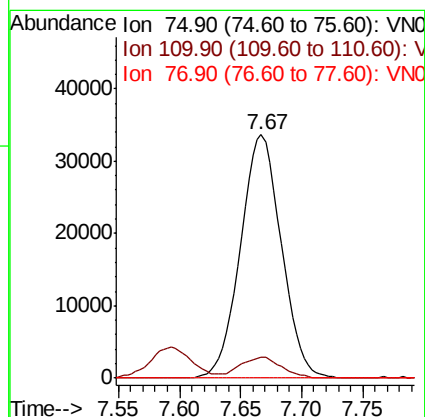
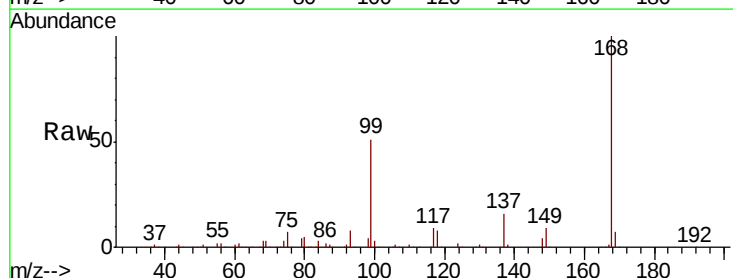
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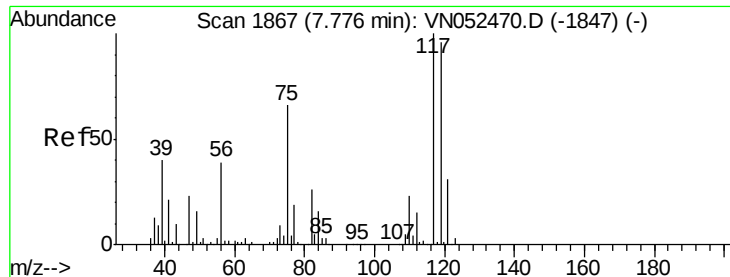
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.6	82.0	123.0
192	22.4	17.0	25.6



#36
 1,1-Dichloropropene
 Concen: 4.497 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052804.D
 Acq: 11 Dec 2018 16:08

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.7	17.5	52.6#
77	0.0	24.5	36.7#





#38

Carbon Tetrachloride

Concen: 6.754 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052804.D

Acq: 11 Dec 2018 16:08

Instrument :

MSVOA_N

ClientSampleId :

PB115504ZHE#09

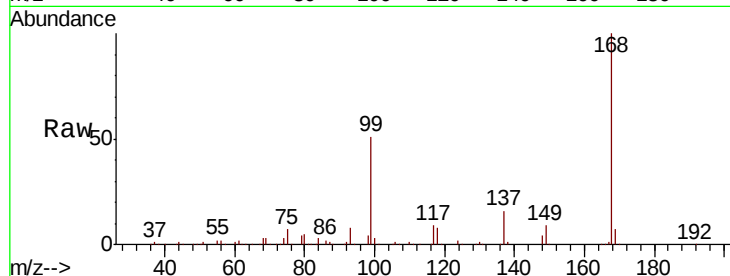
Tot Ion:117 Resp: 106001

Ion Ratio Lower Upper

117 100

119 4.6 76.8 115.2#

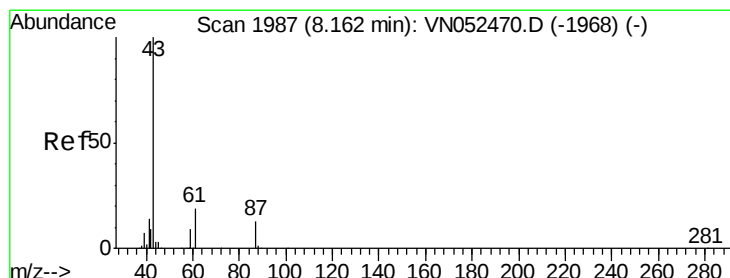
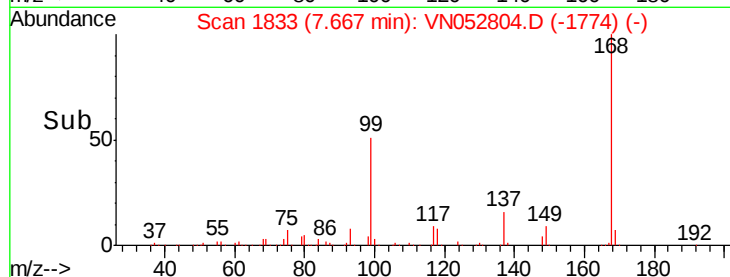
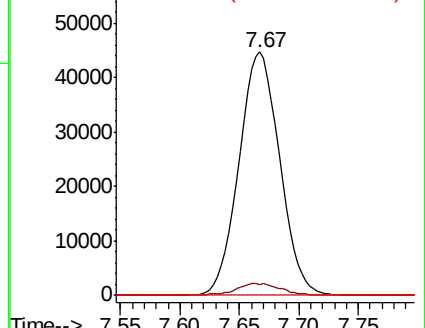
121 0.0 24.9 37.3#



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: 5.162 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN052804.D

Acq: 11 Dec 2018 16:08

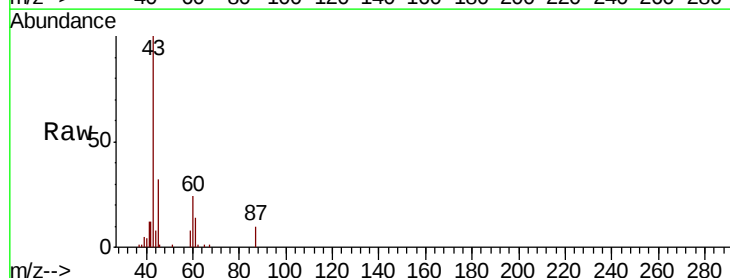
Tgt Ion: 43 Resp: 92420

Ion Ratio Lower Upper

43 100

61 11.8 24.1 36.1#

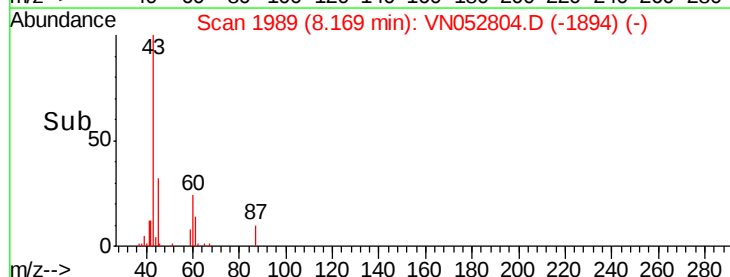
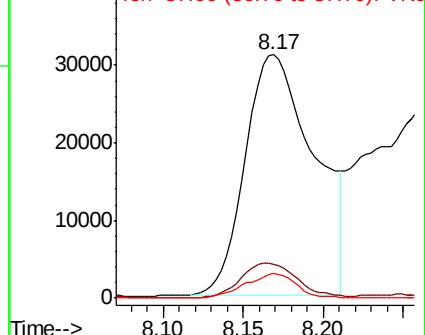
87 7.4 10.6 15.8#

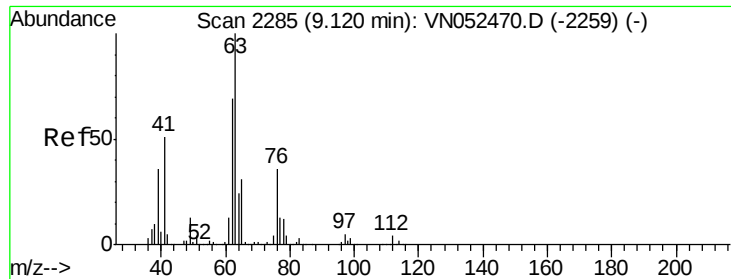


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.250 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN052804.D

Acq: 11 Dec 2018 16:08

Instrument :

MSVOA_N

ClientSampleId :

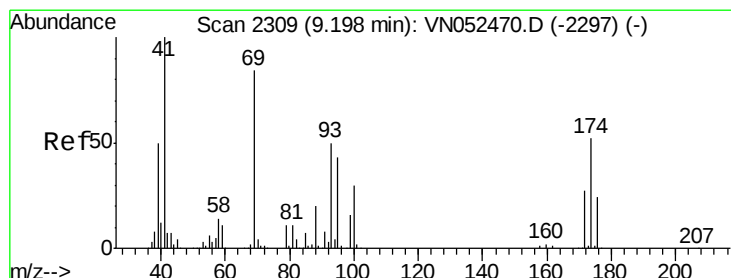
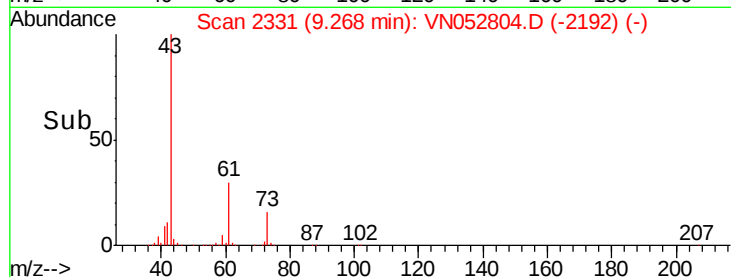
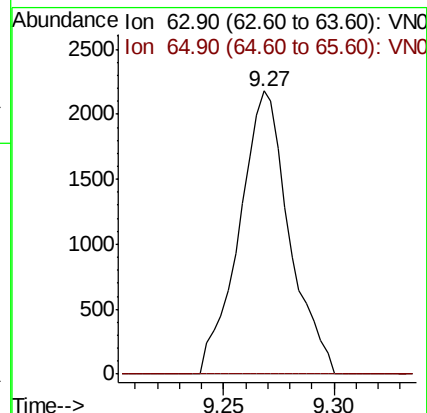
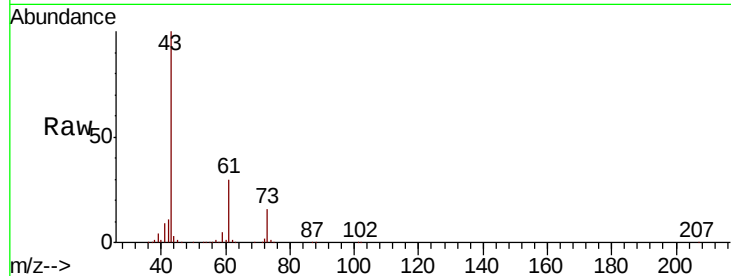
PB115504ZHE#09

Tot Ion: 63 Resp: 3435

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.6#



#48

Methyl methacrylate

Concen: 1.913 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN052804.D

Acq: 11 Dec 2018 16:08

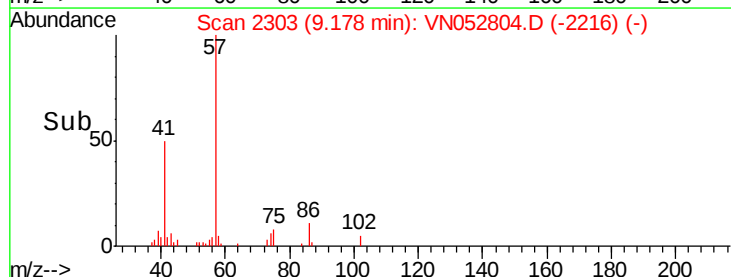
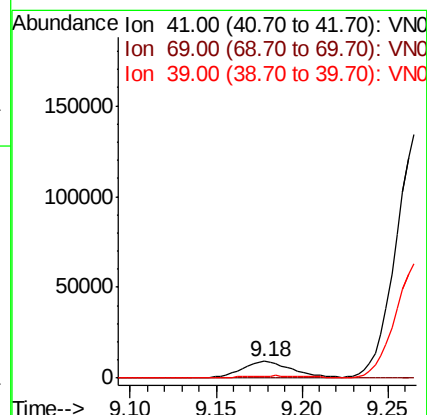
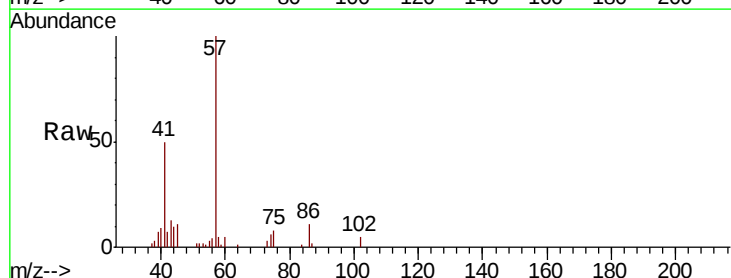
Tgt Ion: 41 Resp: 17857

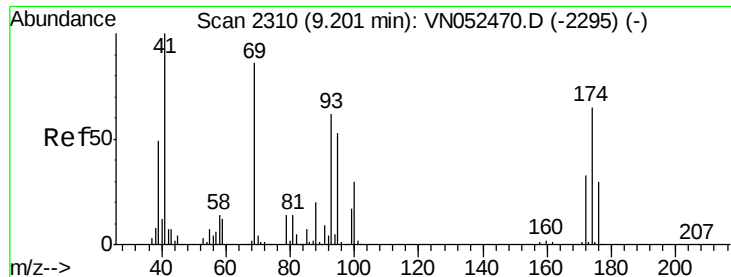
Ion Ratio Lower Upper

41 100

69 0.0 70.0 105.0#

39 0.0 42.6 64.0#





#49

1,4-Dioxane

Concen: 3.622 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.06 min

Lab File: VN052804.D

Acq: 11 Dec 2018 16:08

Instrument :

MSVOA_N

ClientSampleId :

PB115504ZHE#09

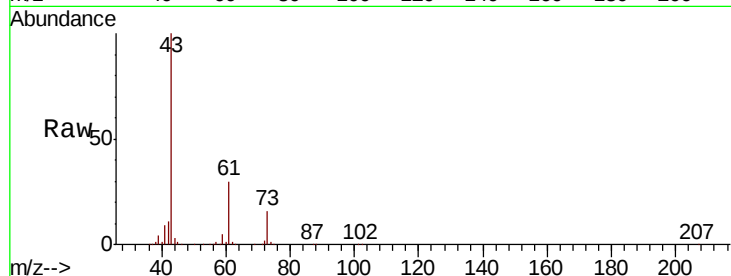
Tot Ion: 88 Resp: 351

Ion Ratio Lower Upper

88 100

43 815888.3 26.4 39.6#

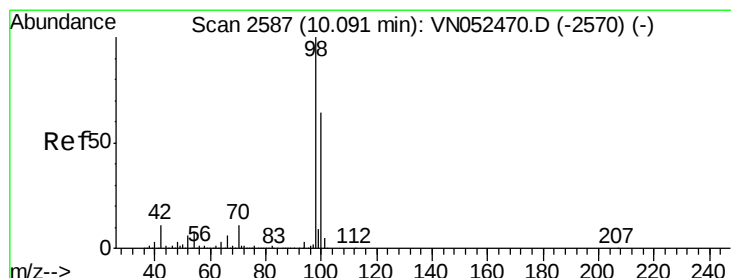
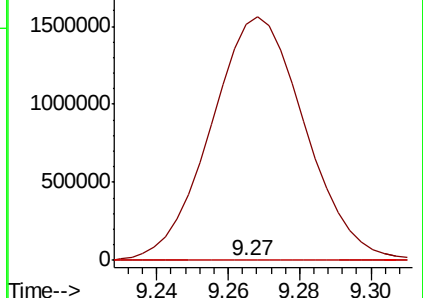
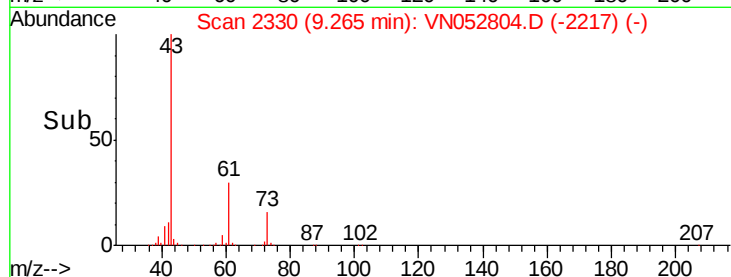
58 3600.0 55.4 83.0#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 3.622 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052804.D

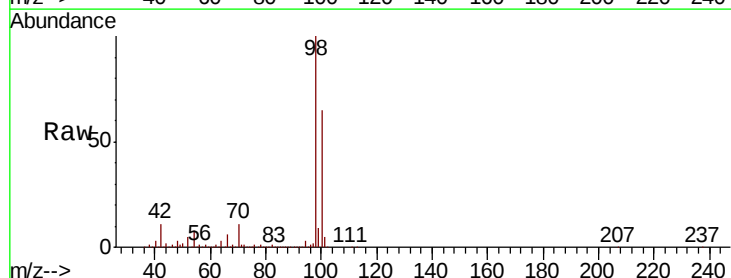
Acq: 11 Dec 2018 16:08

Tgt Ion: 98 Resp: 2267957

Ion Ratio Lower Upper

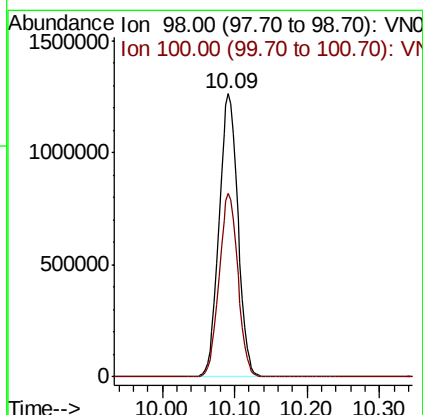
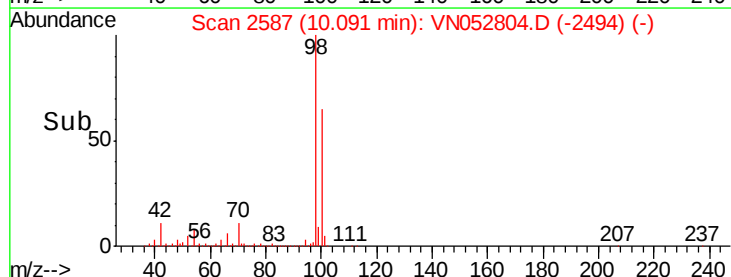
98 100

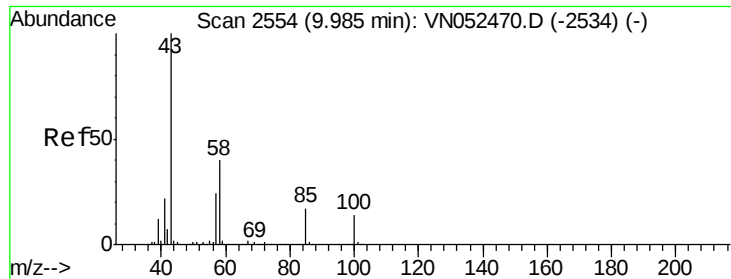
100 64.3 51.3 76.9



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: 2.187 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052804.D

Acq: 11 Dec 2018 16:08

Instrument :

MSVOA_N

ClientSampleId :

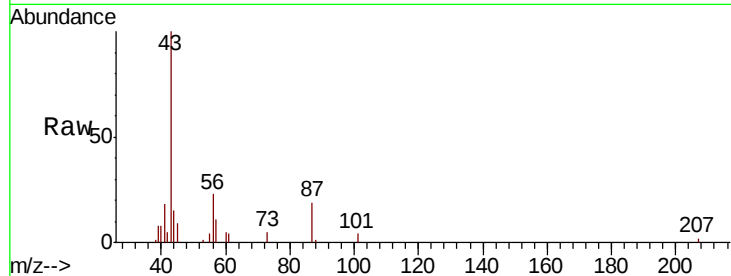
PB115504ZHE#09

Tot Ion: 43 Resp: 21967

Ion Ratio Lower Upper

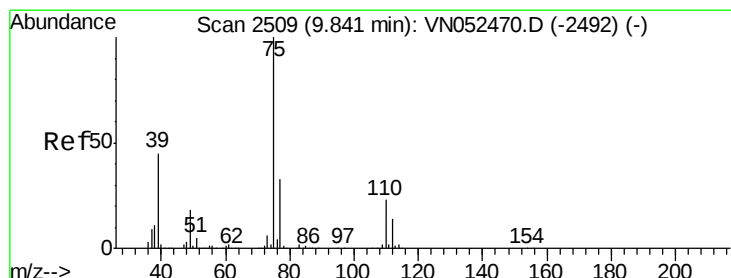
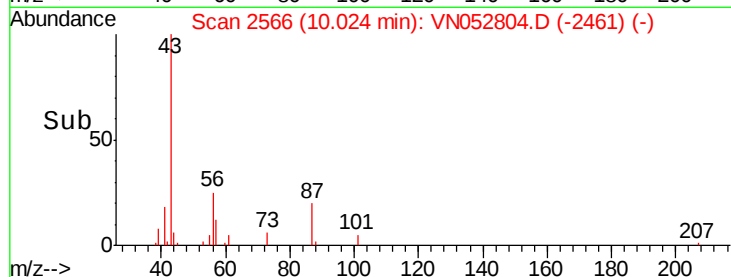
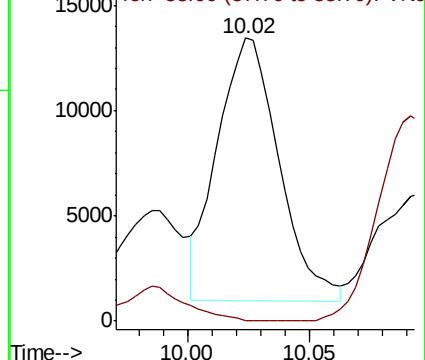
43 100

58 0.0 31.5 47.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 7.972 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052804.D

Acq: 11 Dec 2018 16:08

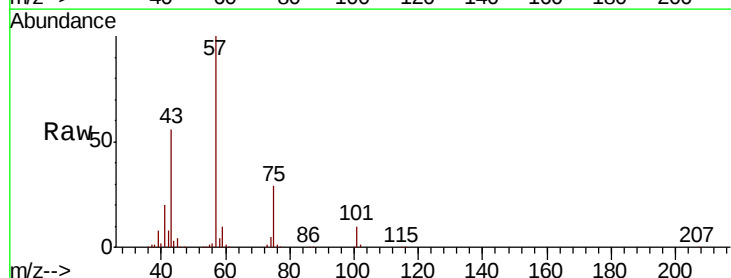
Tgt Ion: 75 Resp: 151953

Ion Ratio Lower Upper

75 100

77 0.5 26.2 39.2#

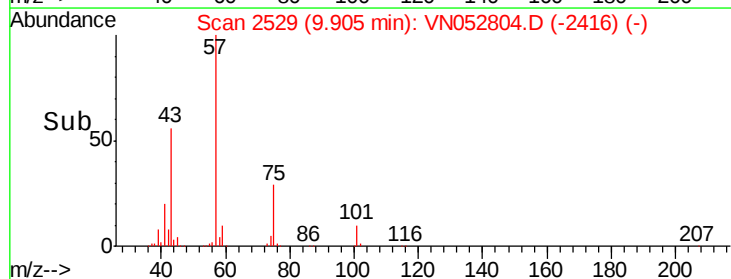
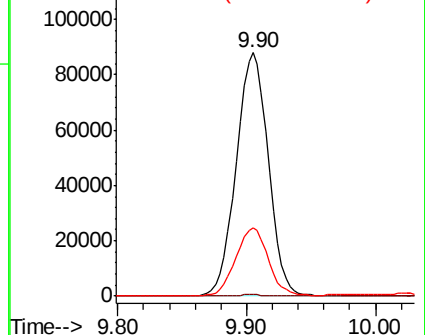
39 28.3 36.0 54.0#

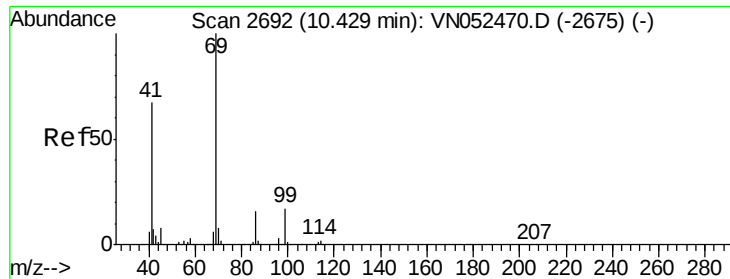


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 2.823 ug/l

RT: 10.54 min Scan# 2726

Delta R.T. 0.11 min

Lab File: VN052804.D

Acq: 11 Dec 2018 16:08

Instrument :

MSVOA_N

ClientSampleId :

PB115504ZHE#09

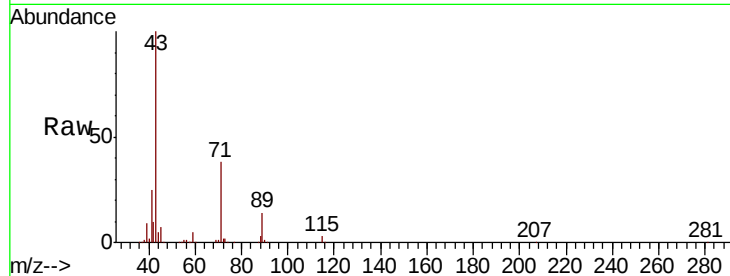
Tot Ion: 69 Resp: 2064

Ion Ratio Lower Upper

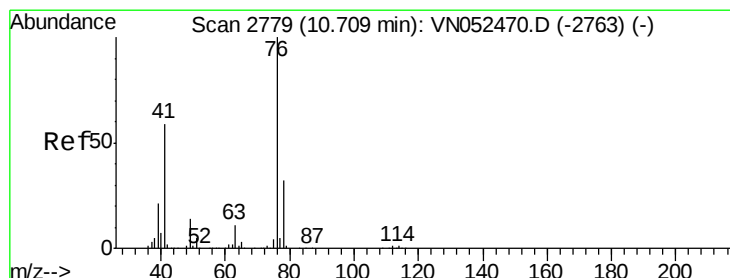
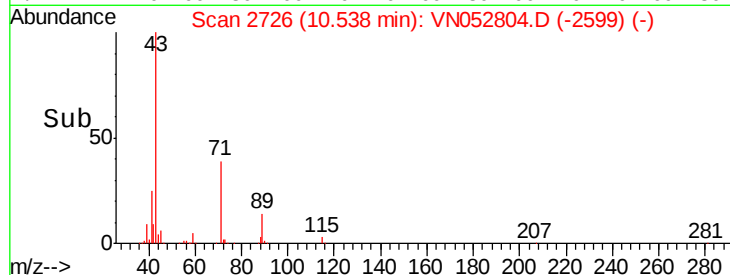
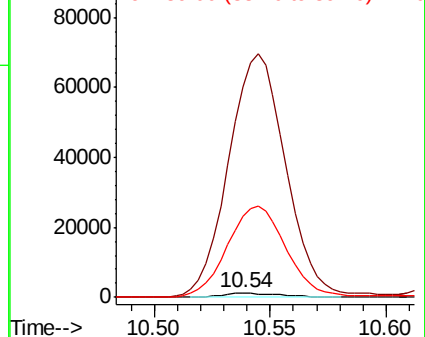
69 100

41 5754.9 52.6 79.0#

39 2244.1 25.9 38.9#



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



#57

1,3-Dichloropropane

Concen: 1.500 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN052804.D

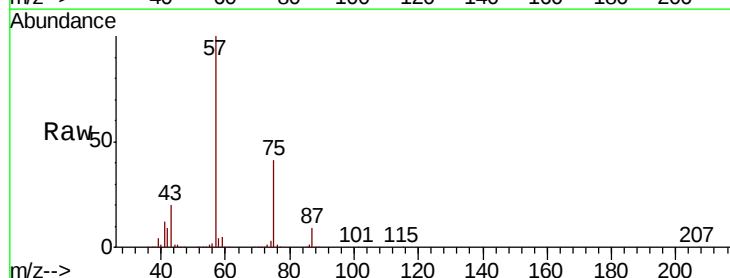
Acq: 11 Dec 2018 16:08

Tgt Ion: 76 Resp: 28591

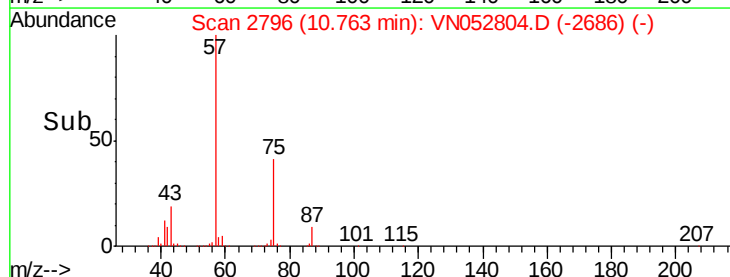
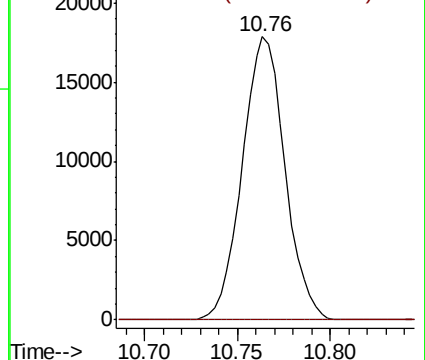
Ion Ratio Lower Upper

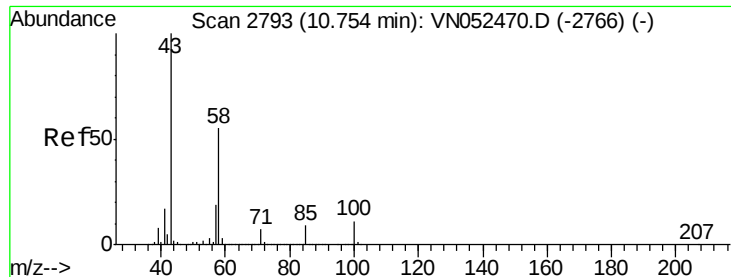
76 100

78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VNO
Ion 77.90 (77.60 to 78.60): VNO

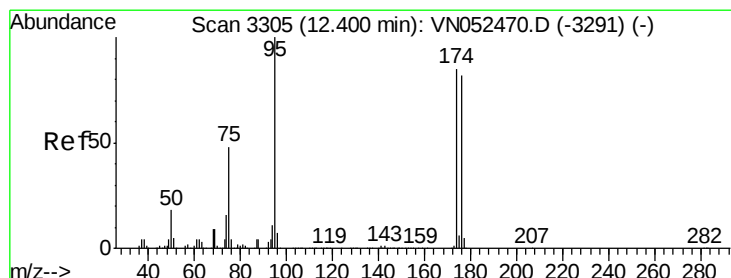
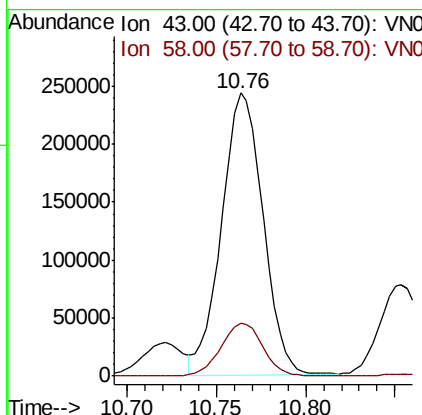
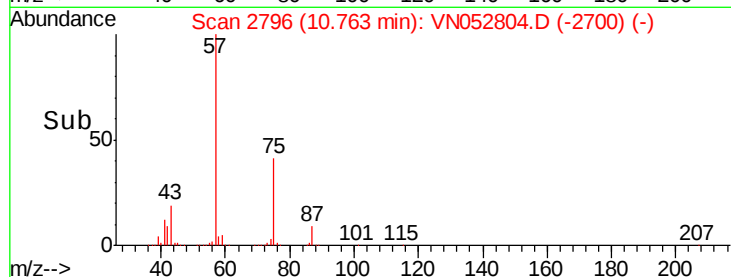
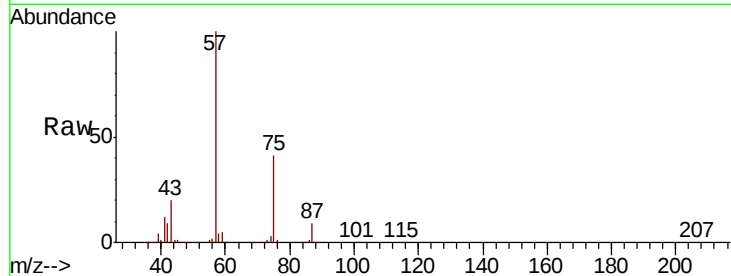




#59
2-Hexanone
Concen: 58.417 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN052804.D
Acq: 11 Dec 2018 16:08

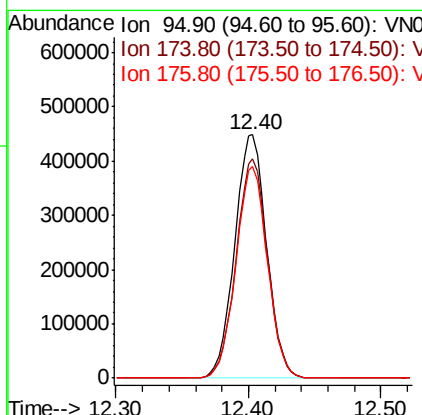
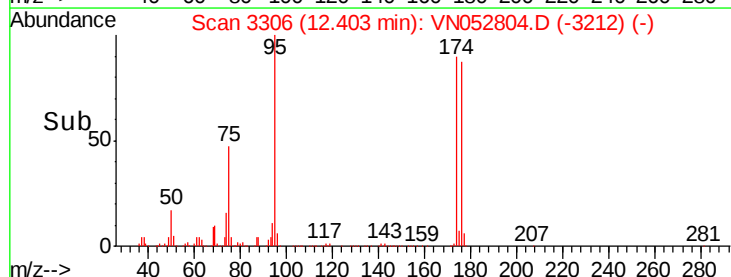
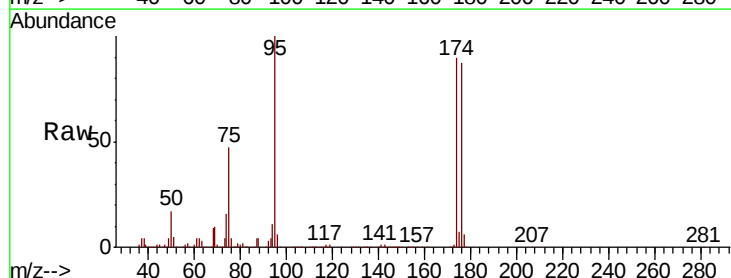
Instrument :
MSVOA_N
ClientSampleId :
PB115504ZHE#09

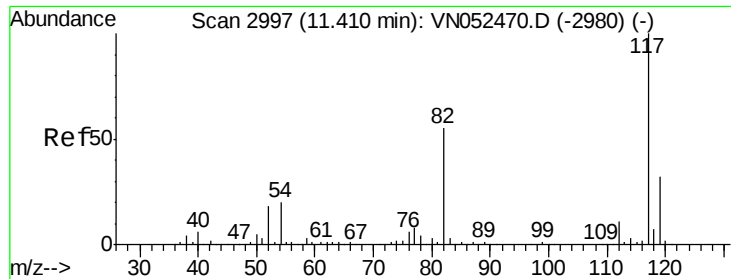
Tot Ion: 43 Resp: 393882
Ion Ratio Lower Upper
43 100
58 19.1 27.4 82.0#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052804.D
Acq: 11 Dec 2018 16:08

Tgt Ion: 95 Resp: 746545
Ion Ratio Lower Upper
95 100
174 89.5 0.0 173.0
176 86.0 0.0 166.2

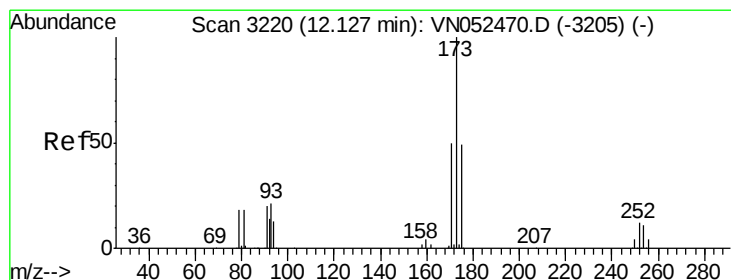
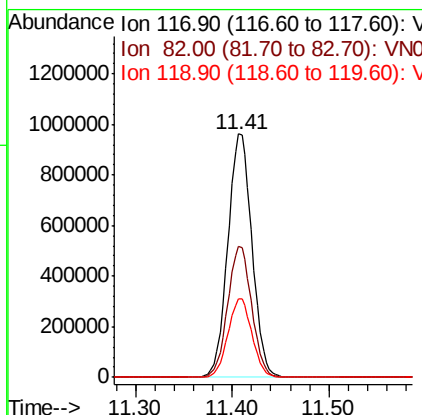
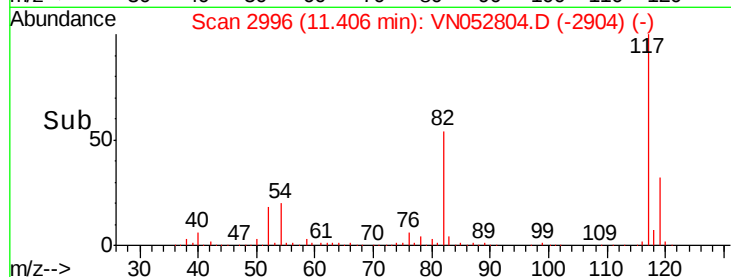
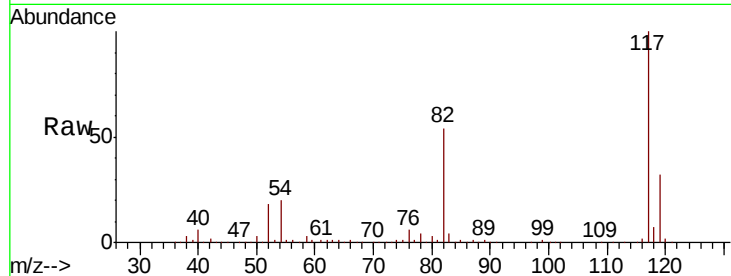




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052804.D
Acq: 11 Dec 2018 16:08

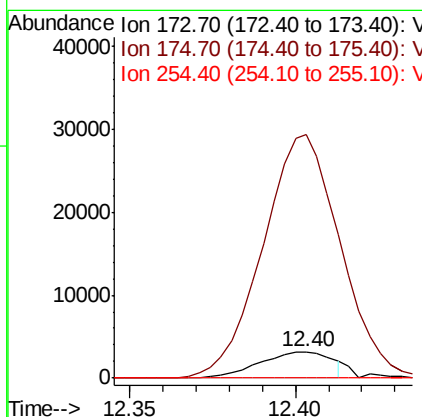
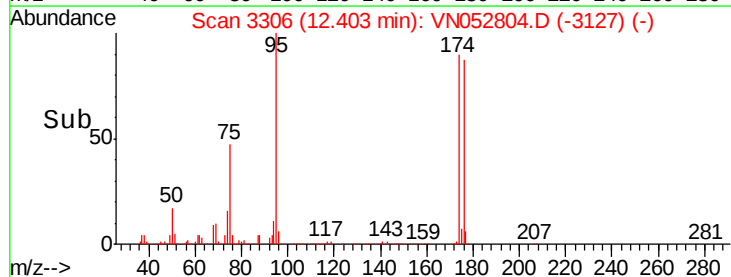
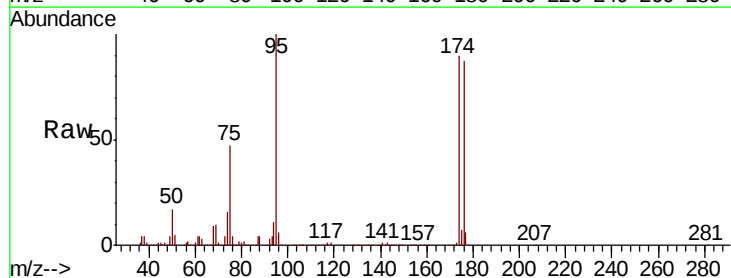
Instrument :
MSVOA_N
ClientSampleId :
PB115504ZHE#09

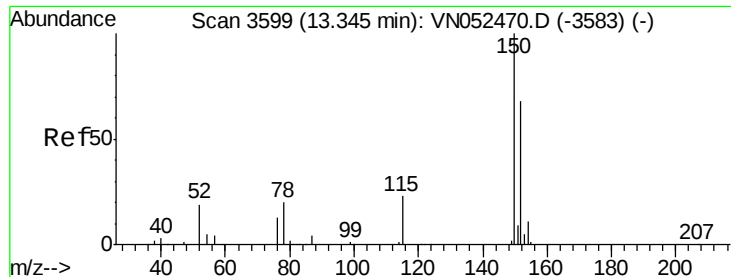
Tot Ion:117 Resp: 1664823
Ion Ratio Lower Upper
117 100
82 54.0 43.6 65.4
119 32.2 25.4 38.2



#71
Bromoform
Concen: 0.604 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN052804.D
Acq: 11 Dec 2018 16:08

Tgt Ion:173 Resp: 4776
Ion Ratio Lower Upper
173 100
175 875.2 24.4 73.2#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN052804.D

Acq: 11 Dec 2018 16:08

Instrument :

MSVOA_N

ClientSampleId :

PB115504ZHE#09

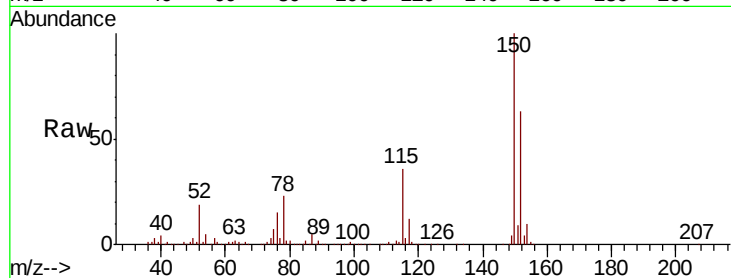
Tot Ion:152 Resp: 686154

Ion Ratio Lower Upper

152 100

115 56.6 28.4 85.2

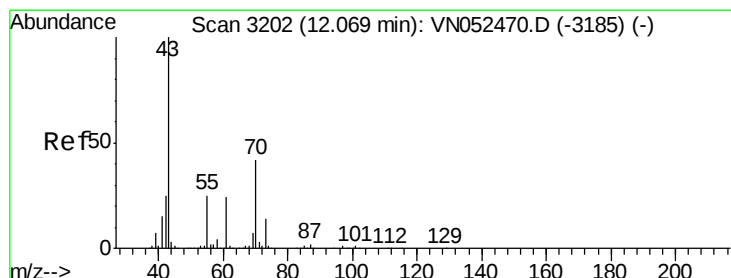
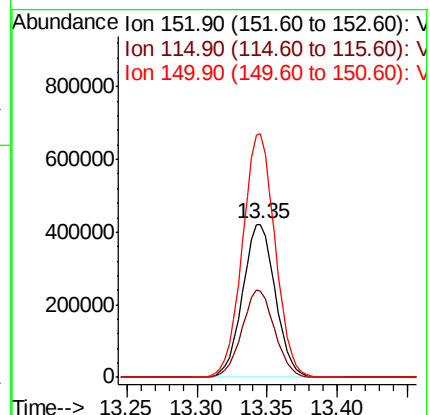
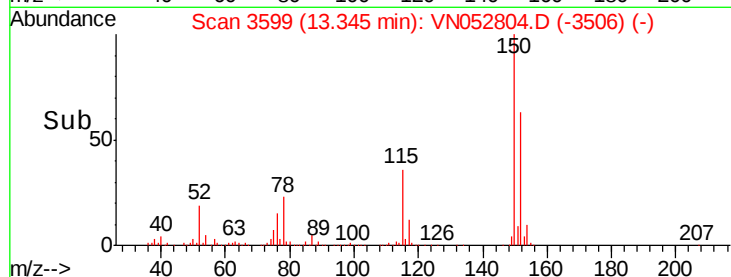
150 158.6 0.0 346.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 3.655 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN052804.D

Acq: 11 Dec 2018 16:08

Tgt Ion: 43 Resp: 49710

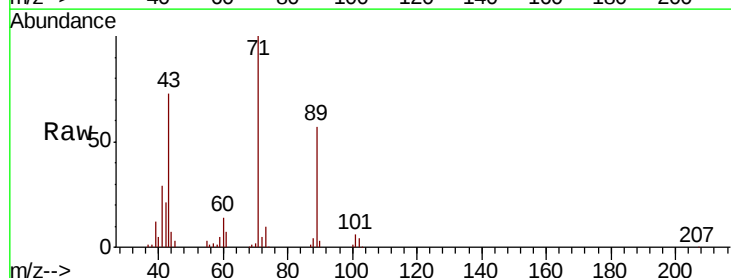
Ion Ratio Lower Upper

43 100

70 2.1 33.8 50.8#

55 4.7 20.0 30.0#

61 10.4 19.7 29.5#

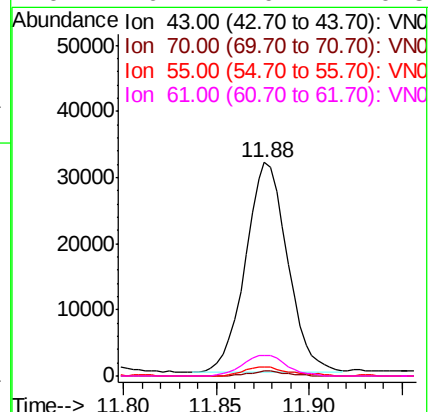
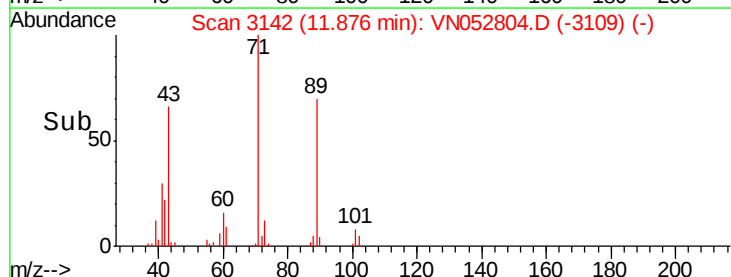


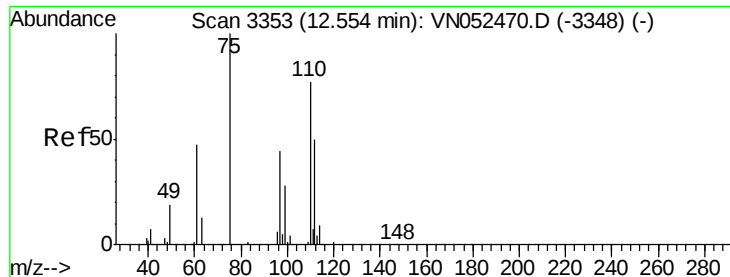
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 33.832 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052804.D

Acq: 11 Dec 2018 16:08

Instrument :

MSVOA_N

ClientSampleId :

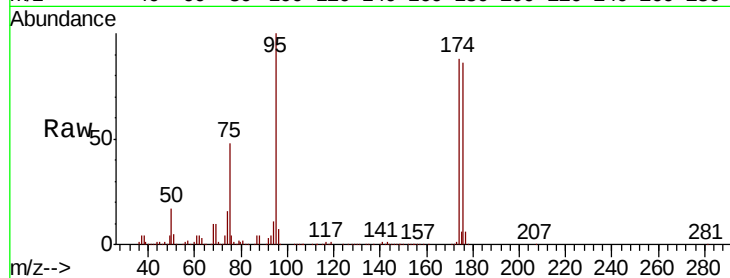
PB115504ZHE#09

Tot Ion: 75 Resp: 357977

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN052804.D (-3260) (-)

Ion 77.00 (76.70 to 77.70): VN052804.D (-3260) (-)

250000

200000

150000

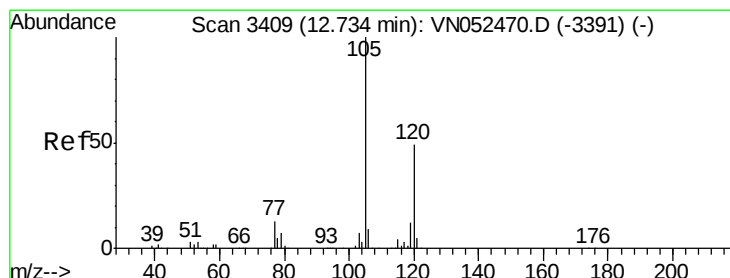
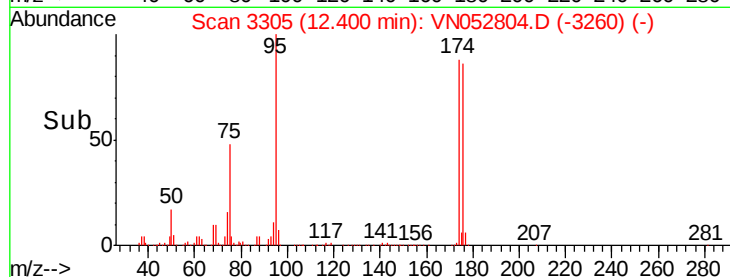
100000

50000

0

12.35 12.40 12.45

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.769 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN052804.D

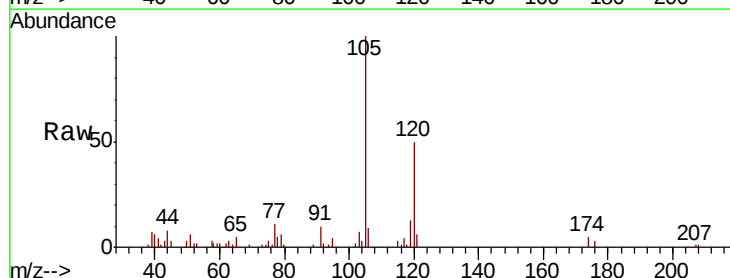
Acq: 11 Dec 2018 16:08

Tgt Ion: 105 Resp: 32998

Ion Ratio Lower Upper

105 100

120 47.9 24.3 73.0



Abundance Ion 105.00 (104.70 to 105.70): VN052804.D (-3316) (-)

Ion 120.00 (119.70 to 120.70): VN052804.D (-3316) (-)

20000

15000

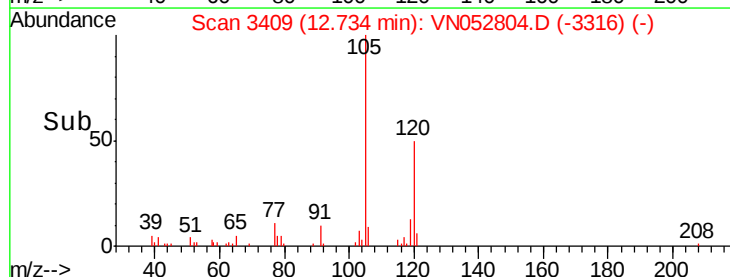
10000

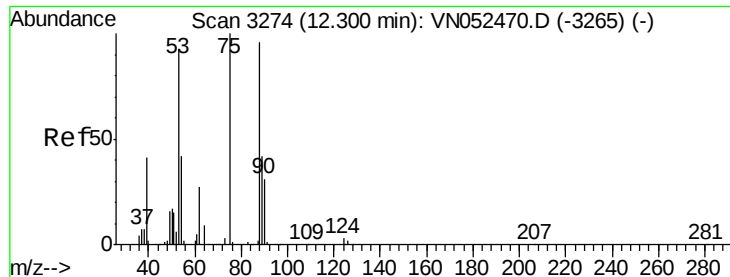
5000

0

12.65 12.70 12.75 12.80

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 112.984 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052804.D

Acq: 11 Dec 2018 16:08

Instrument :

MSVOA_N

ClientSampleId :

PB115504ZHE#09

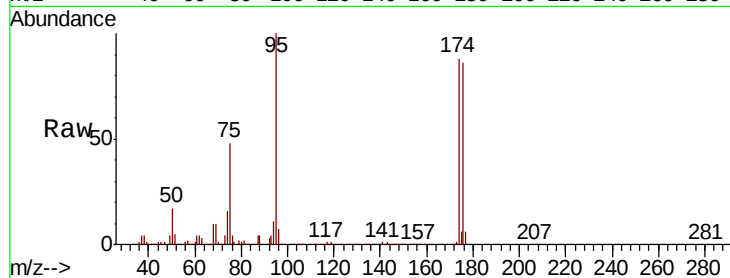
Tot Ion: 75 Resp: 357977

Ion Ratio Lower Upper

75 100

53 0.0 77.4 116.0#

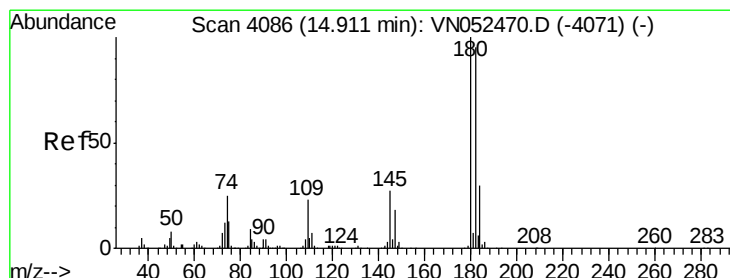
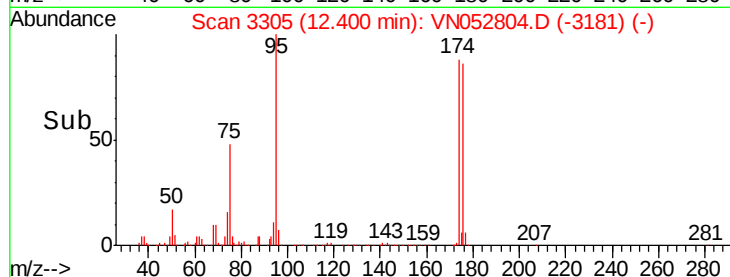
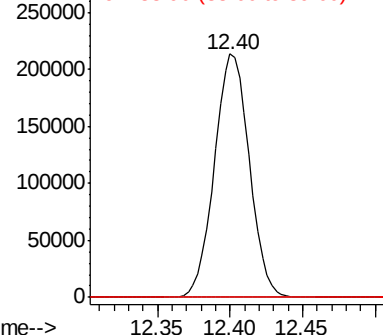
89 0.0 35.4 53.2#



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



#93

1,2,4-Trichlorobenzene

Concen: 2.834 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.00 min

Lab File: VN052804.D

Acq: 11 Dec 2018 16:08

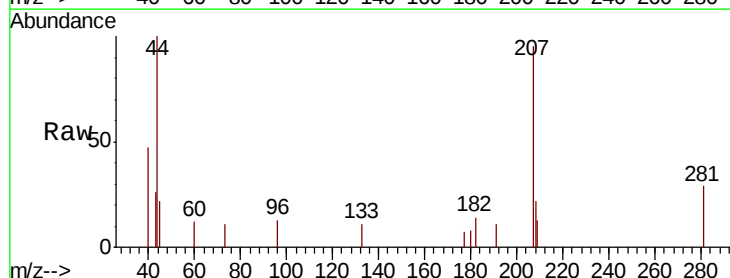
Tgt Ion: 180 Resp: 62

Ion Ratio Lower Upper

180 100

182 319.4 47.8 143.4#

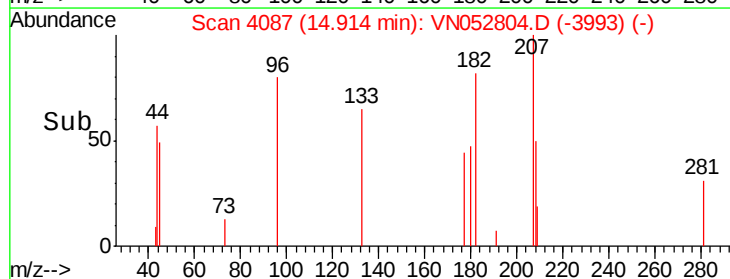
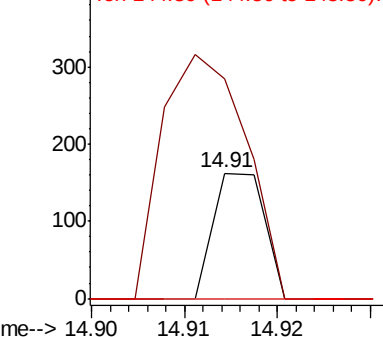
145 0.0 14.1 42.3#

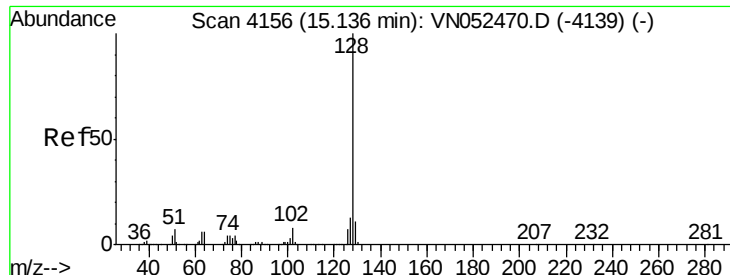


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 3.448 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN052804.D

Acq: 11 Dec 2018 16:08

Instrument :

MSVOA_N

ClientSampleId :

PB115504ZHE#09

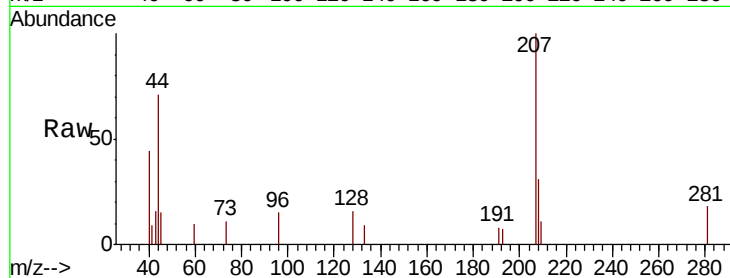
Tot Ion:128 Resp: 527

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.7 13.1#



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

