

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121818\
 Data File : VN052988.D
 Acq On : 19 Dec 2018 4:12
 Operator : MD\SY
 Sample : PB115784ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 41 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115784ZHE#03

Quant Time: Dec 19 05:48:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1414982	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2182090	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1938556	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	760586	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	700411	48.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.56%	
35) Dibromofluoromethane	7.59	113	498501	50.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.02%	
50) Toluene-d8	10.09	98	2664876	49.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.60%	
62) 4-Bromofluorobenzene	12.40	95	866732	46.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.28%	

Target Compounds

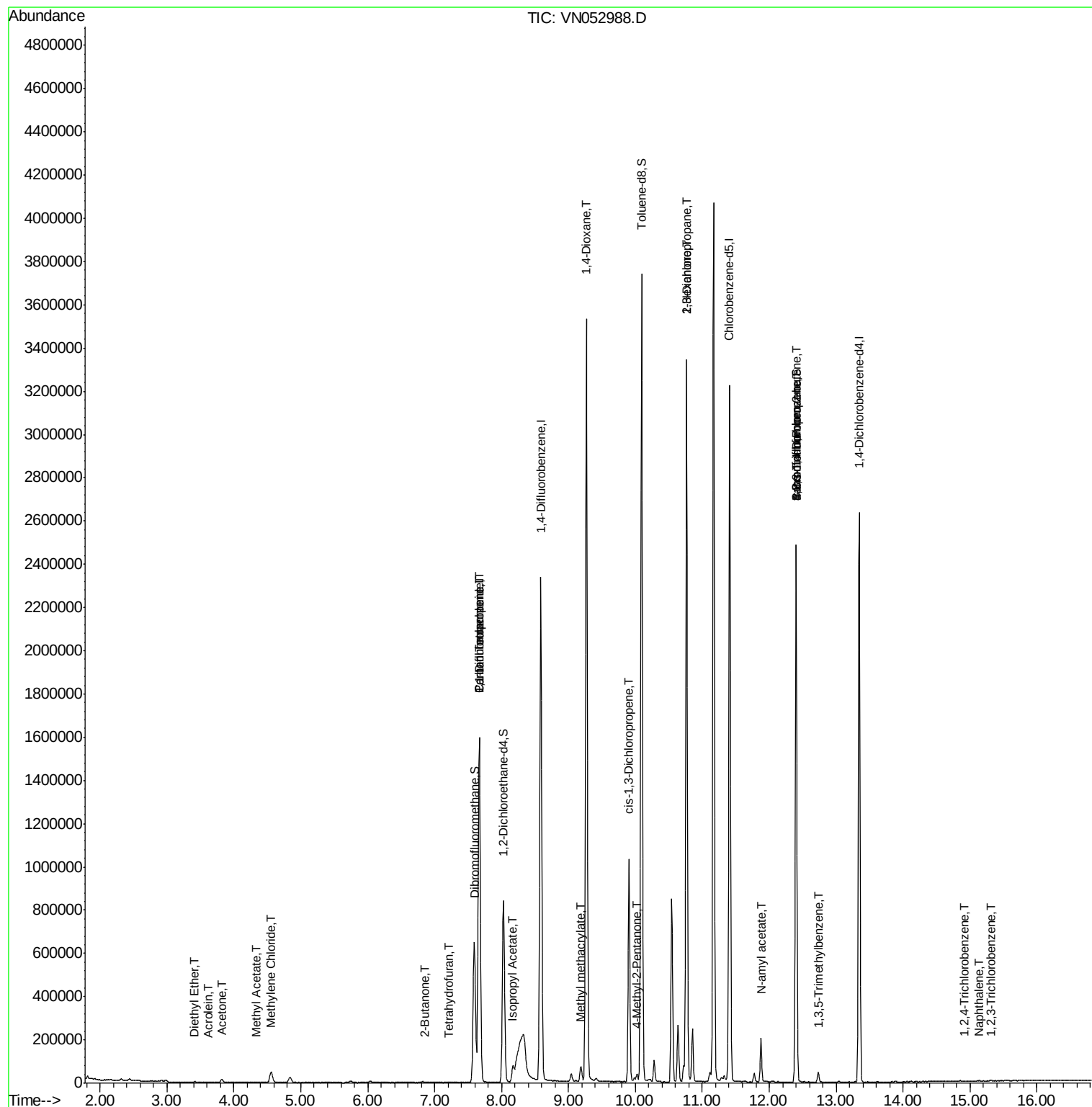
						Qvalue
8) Diethyl Ether	3.41	74	2311	0.280	ug/l	95
13) Acrolein	3.61	56	200	0.252	ug/l #	32
16) Acetone	3.82	43	24307	8.634	ug/l	100
18) Methyl Acetate	4.33	43	7471	1.565	ug/l	95
20) Methylene Chloride	4.56	84	37549	2.445	ug/l	95
25) 2-Butanone	6.85	43	2527	0.535	ug/l	93
29) Tetrahydrofuran	7.22	42	1722	0.488	ug/l #	62
31) Cyclohexane	7.66	56	23258	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	91804	4.383	ug/l #	49
38) Carbon Tetrachloride	7.67	117	123486	6.432	ug/l #	16
43) Isopropyl Acetate	8.17	43	88299	2.919	ug/l #	81
48) Methyl methacrylate	9.18	41	24253	2.138	ug/l #	12
49) 1,4-Dioxane	9.27	88	613	4.271	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	31690	2.799	ug/l #	35
54) cis-1,3-Dichloropropene	9.90	75	202056	8.331	ug/l #	59
57) 1,3-Dichloropropane	10.76	76	35950	1.556	ug/l #	43
59) 2-Hexanone	10.76	43	473816	61.849	ug/l #	49
71) Bromoform	12.40	173	5096	0.472	ug/l #	1
74) N-amyl acetate	11.88	43	61821	3.742	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	400303	31.265	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	23765	0.490	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	400303	100.770	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.91	180	553	0.636	ug/l #	77
95) Naphthalene	15.13	128	1358	1.191	ug/l #	82
96) 1,2,3-Trichlorobenzene	15.31	180	543	0.552	ug/l #	80

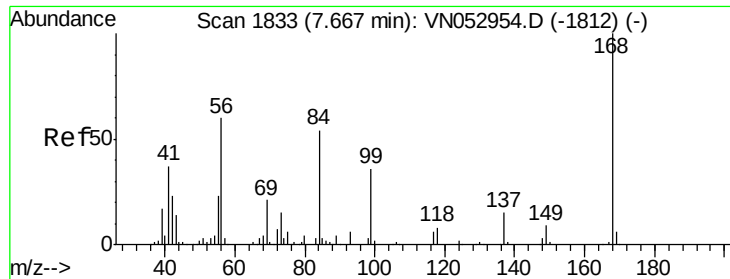
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Dec 18 13:03:37 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: VN052988.D

Acq: 19 Dec 2018 4:12

Instrument :

MSVOA_N

ClientSampleId :

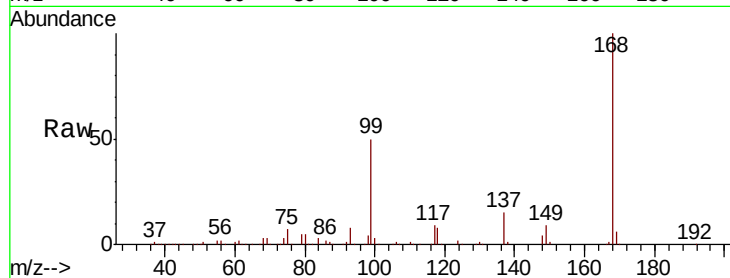
PB115784ZHE#03

Tot Ion:168 Resp: 1414982

Ion Ratio Lower Upper

168 100

99 50.1 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN052954.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN052954.D (-1812) (-)

7.67

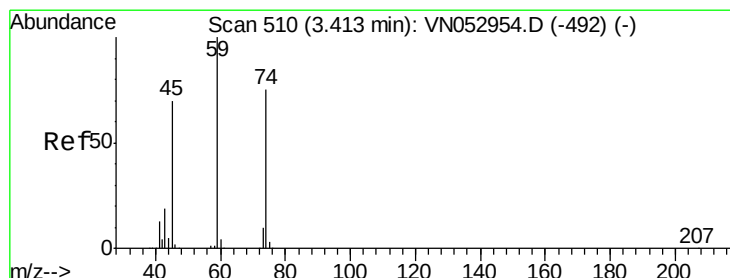
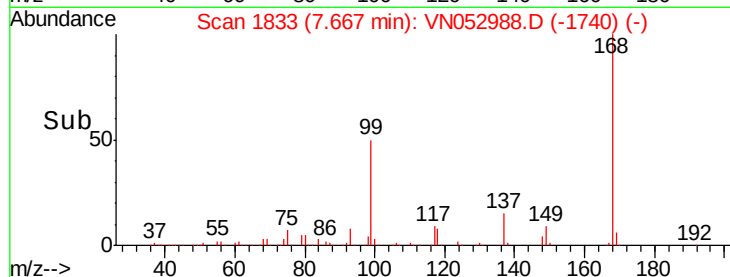
600000

400000

200000

0

Time-->



#8

Diethyl Ether

Concen: 0.280 ug/l

RT: 3.41 min Scan# 510

Delta R.T. -0.00 min

Lab File: VN052988.D

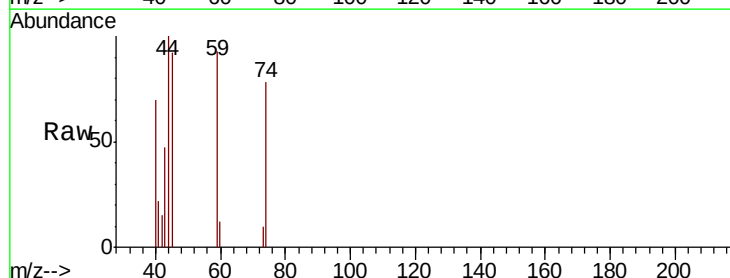
Acq: 19 Dec 2018 4:12

Tgt Ion: 74 Resp: 2311

Ion Ratio Lower Upper

74 100

45 103.9 49.4 148.0



Abundance Ion 74.00 (73.70 to 74.70): VN052954.D (-492) (-)

Ion 45.00 (44.70 to 45.70): VN052954.D (-492) (-)

3.41

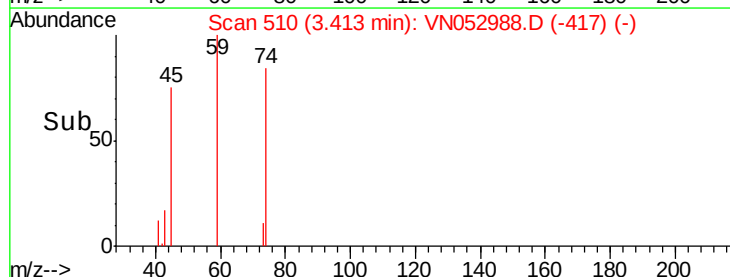
1500

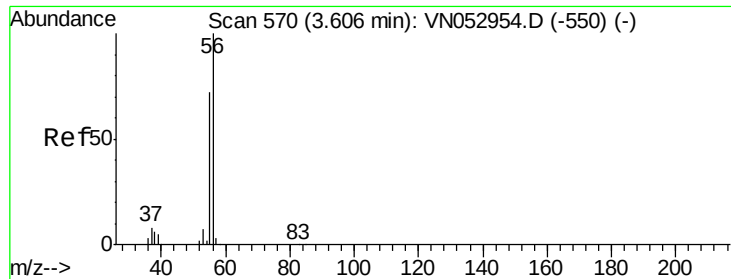
1000

500

0

Time-->





#13

Acrolein

Concen: 0.252 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN052988.D

Acq: 19 Dec 2018 4:12

Instrument :

MSVOA_N

ClientSampleId :

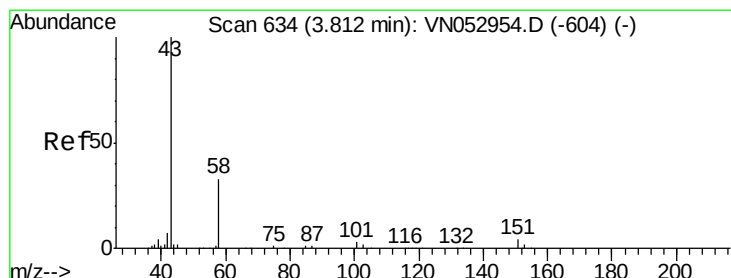
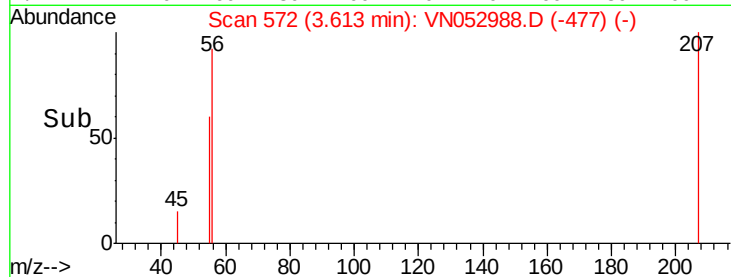
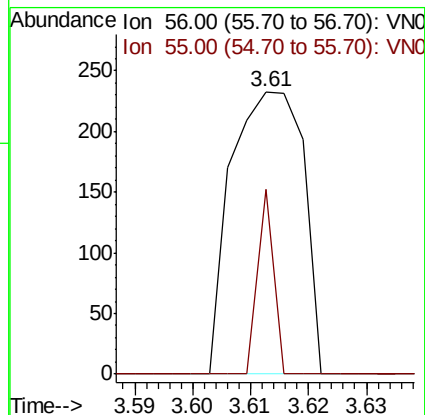
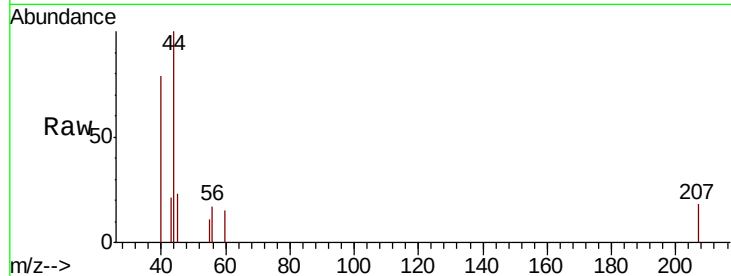
PB115784ZHE#03

Tot Ion: 56 Resp: 200

Ion Ratio Lower Upper

56 100

55 14.5 56.6 85.0#



#16

Acetone

Concen: 8.634 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN052988.D

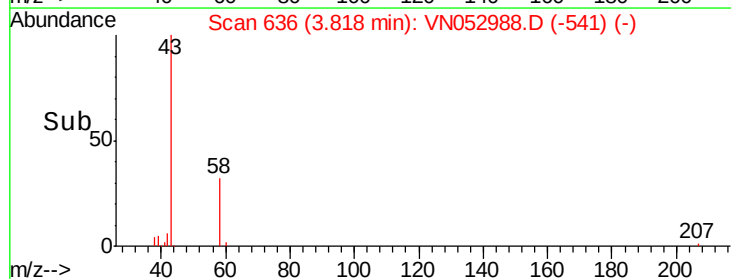
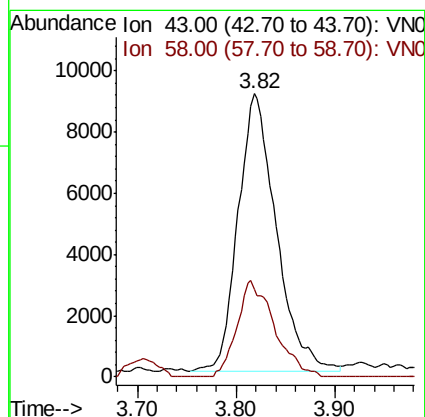
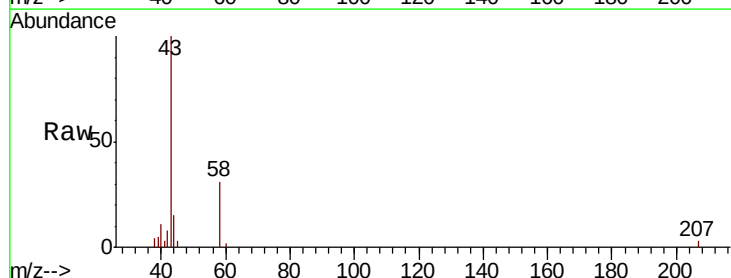
Acq: 19 Dec 2018 4:12

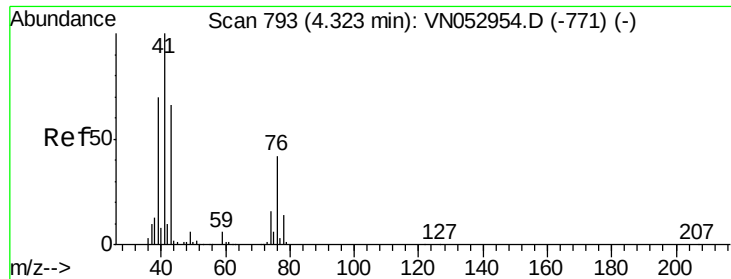
Tgt Ion: 43 Resp: 24307

Ion Ratio Lower Upper

43 100

58 31.7 25.4 38.0

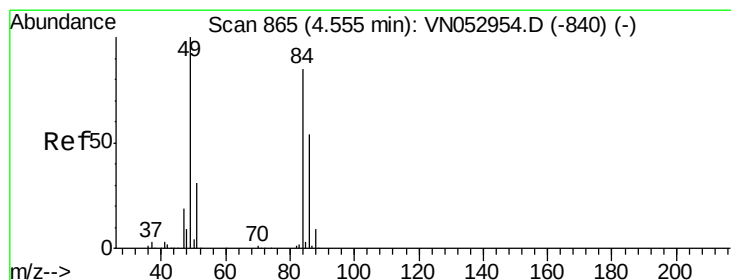
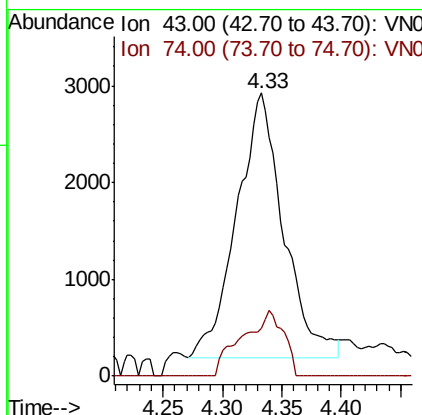
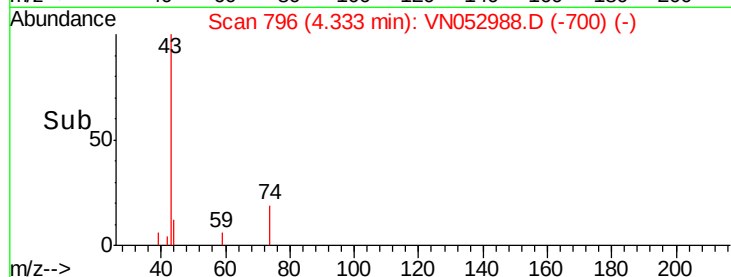
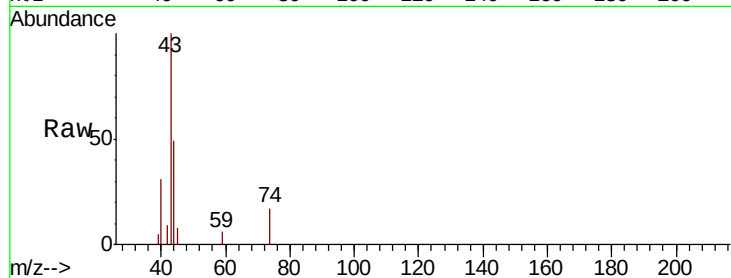




#18
Methyl Acetate
Concen: 1.565 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN052988.D
Acq: 19 Dec 2018 4:12

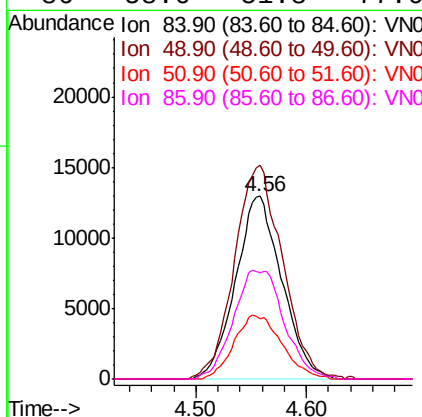
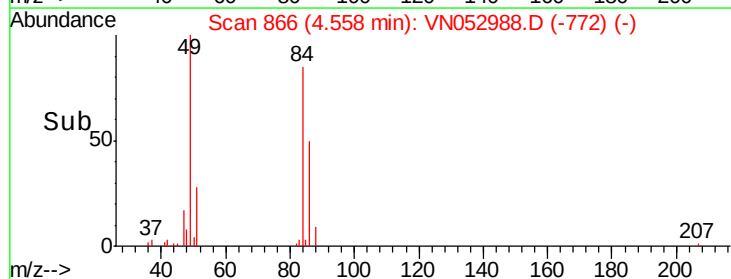
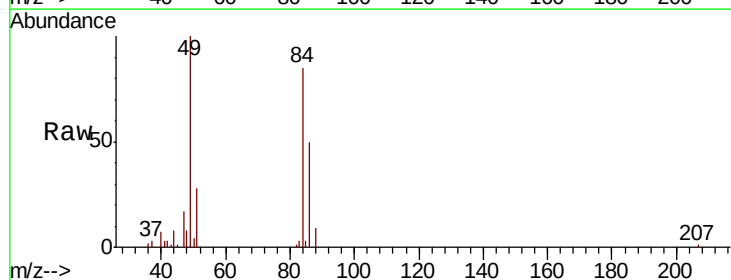
Instrument :
MSVOA_N
ClientSampleId :
PB115784ZHE#03

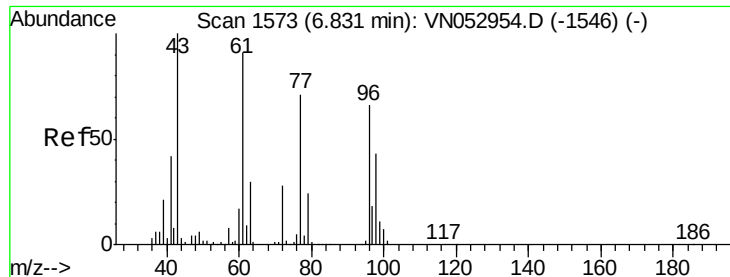
Tot Ion: 43 Resp: 7471
Ion Ratio Lower Upper
43 100
74 21.8 19.2 28.8



#20
Methylene Chloride
Concen: 2.445 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052988.D
Acq: 19 Dec 2018 4:12

Tgt Ion: 84 Resp: 37549
Ion Ratio Lower Upper
84 100
49 117.1 96.8 145.2
51 33.2 29.9 44.9
86 58.6 51.8 77.6

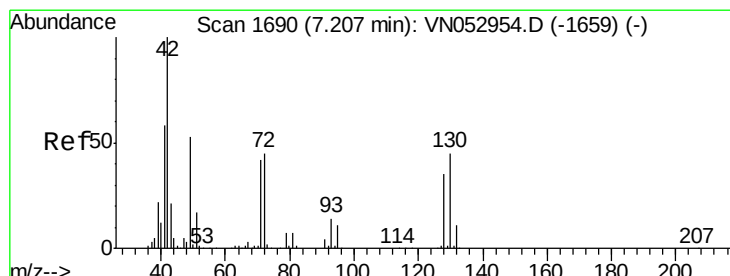
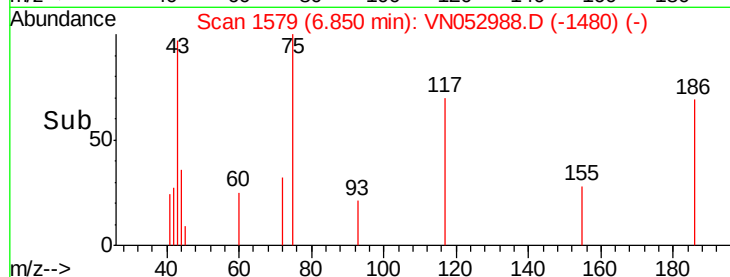
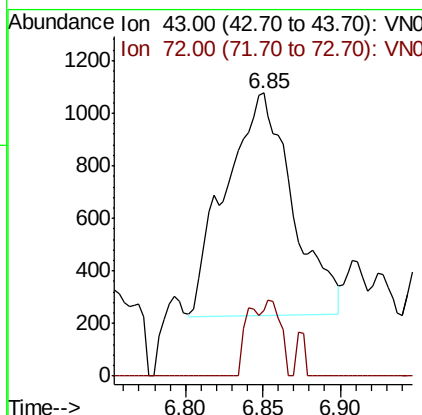
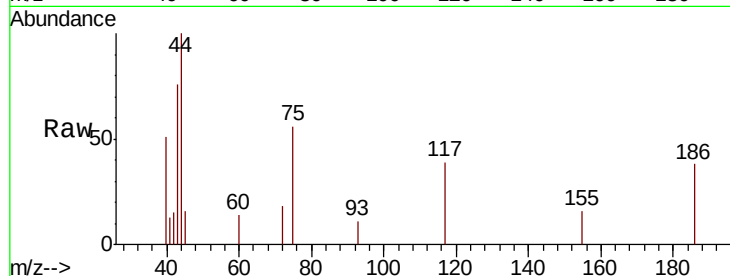




#25
 2-Butanone
 Concen: 0.535 ug/l
 RT: 6.85 min Scan# 1579
 Delta R.T. 0.02 min
 Lab File: VN052988.D
 Acq: 19 Dec 2018 4:12

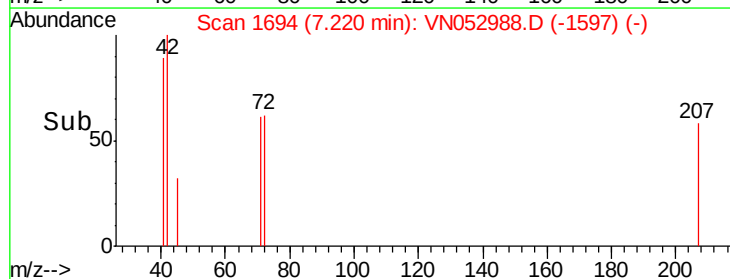
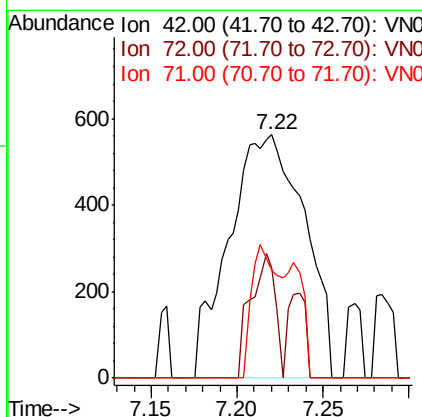
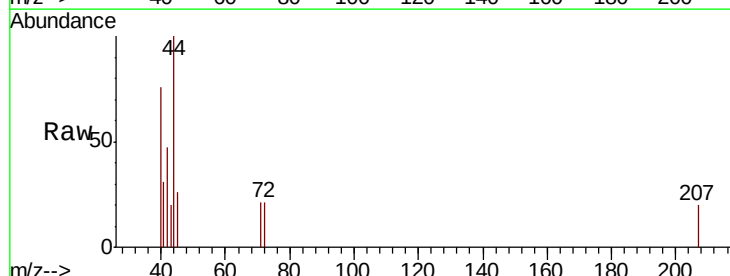
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115784ZHE#03

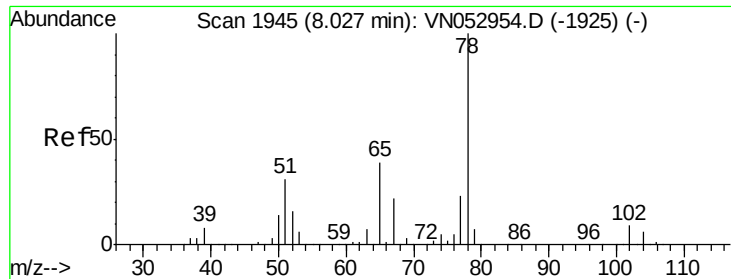
Tot Ion: 43 Resp: 2527
 Ion Ratio Lower Upper
 43 100
 72 29.6 21.0 31.6



#29
 Tetrahydrofuran
 Concen: 0.488 ug/l
 RT: 7.22 min Scan# 1694
 Delta R.T. 0.01 min
 Lab File: VN052988.D
 Acq: 19 Dec 2018 4:12

Tgt Ion: 42 Resp: 1722
 Ion Ratio Lower Upper
 42 100
 72 16.5 34.7 52.1#
 71 19.6 32.3 48.5#

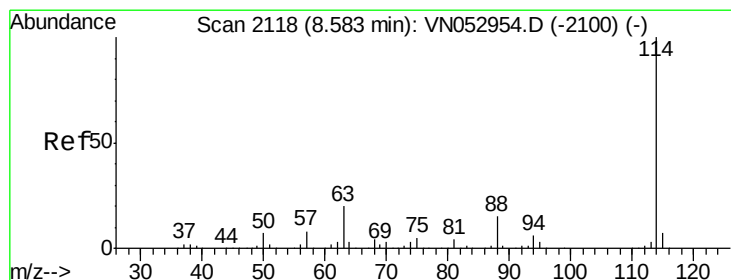
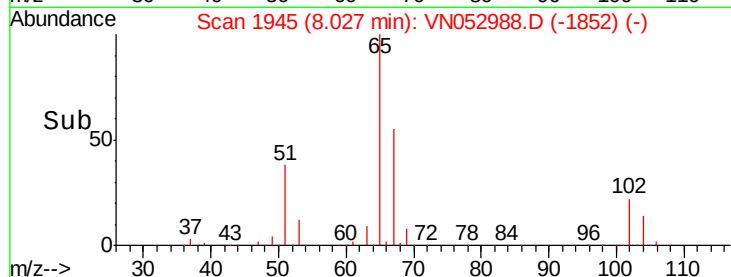
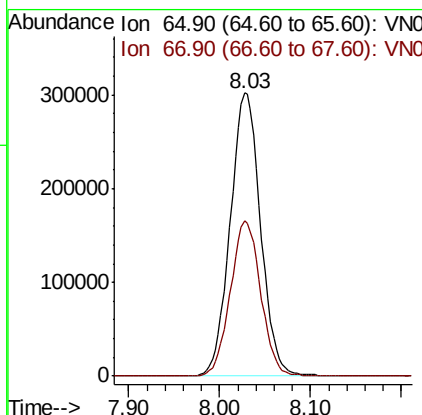
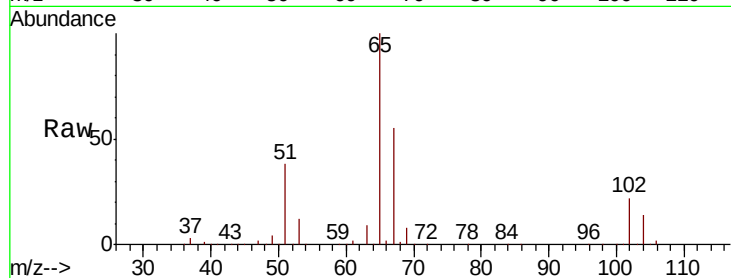




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052988.D
 Acq: 19 Dec 2018 4:12

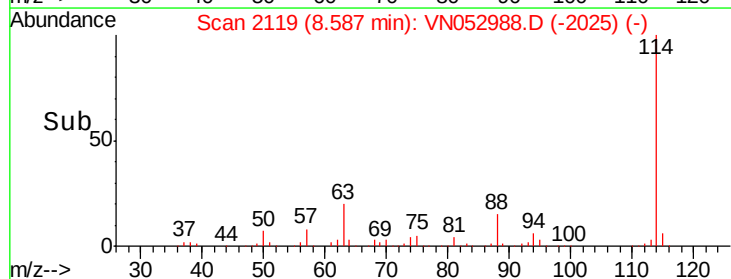
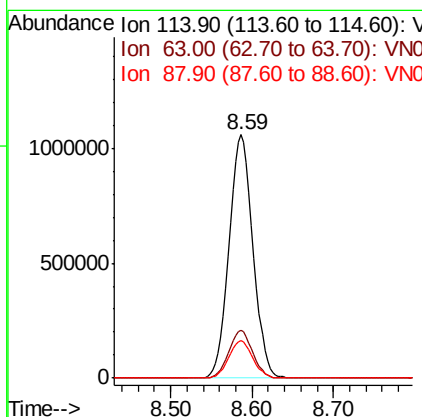
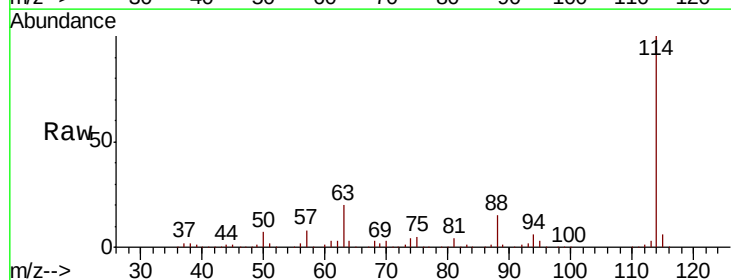
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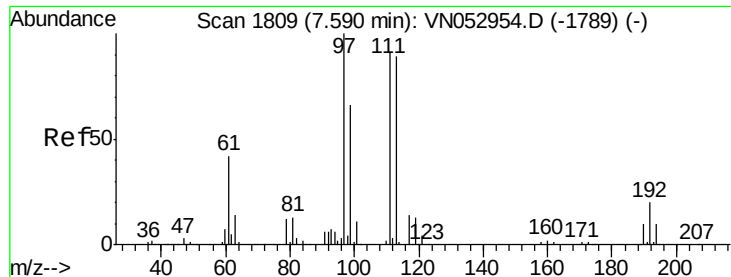
Tot Ion: 65 Resp: 700411
 Ion Ratio Lower Upper
 65 100
 67 54.8 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052988.D
 Acq: 19 Dec 2018 4:12

Tgt Ion: 114 Resp: 2182090
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 39.8
 88 15.4 0.0 31.0

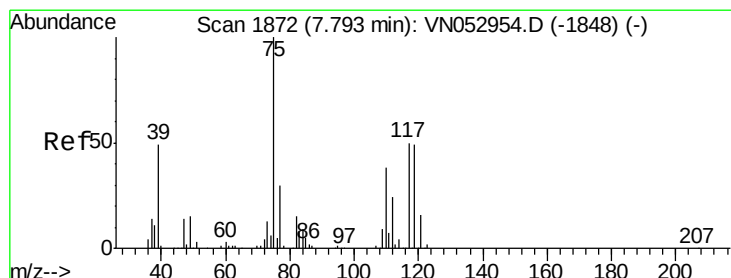
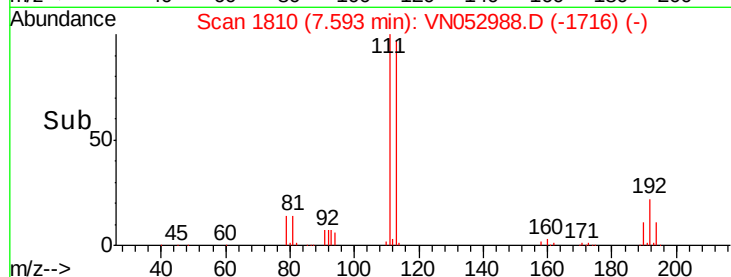
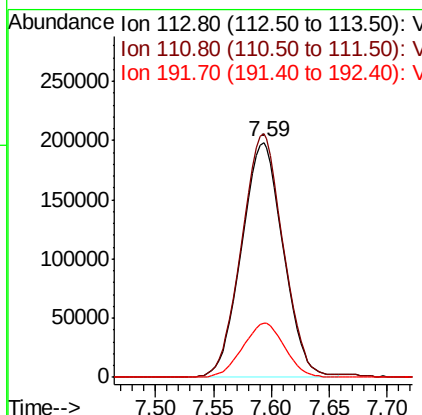
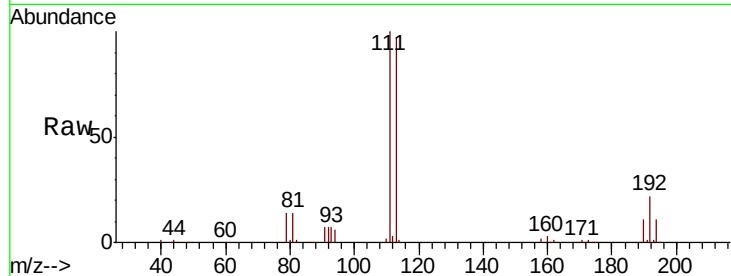




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052988.D
 Acq: 19 Dec 2018 4:12

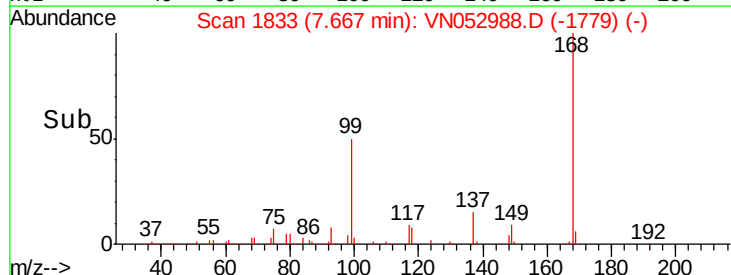
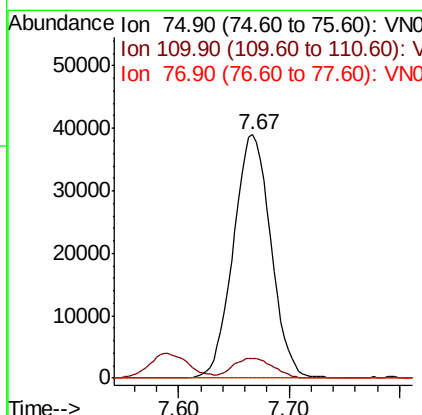
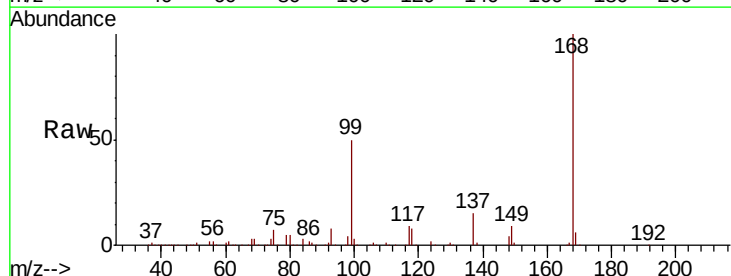
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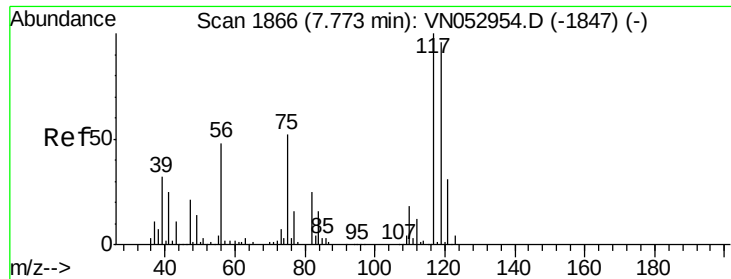
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.3	83.0	124.4
192	23.1	17.5	26.3



#36
 1,1-Dichloropropene
 Concen: 4.383 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052988.D
 Acq: 19 Dec 2018 4:12

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.7	18.2	54.6#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 6.432 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052988.D

Acq: 19 Dec 2018 4:12

Instrument :

MSVOA_N

ClientSampleId :

PB115784ZHE#03

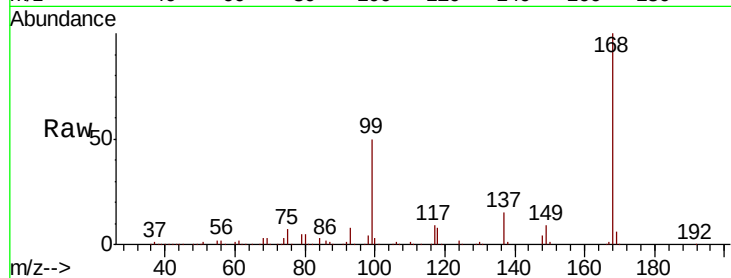
Tot Ion:117 Resp: 123486

Ion Ratio Lower Upper

117 100

119 5.0 77.1 115.7#

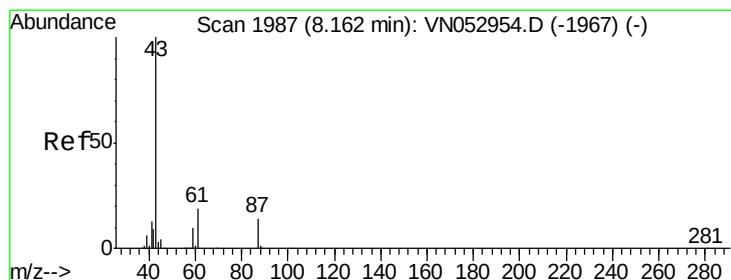
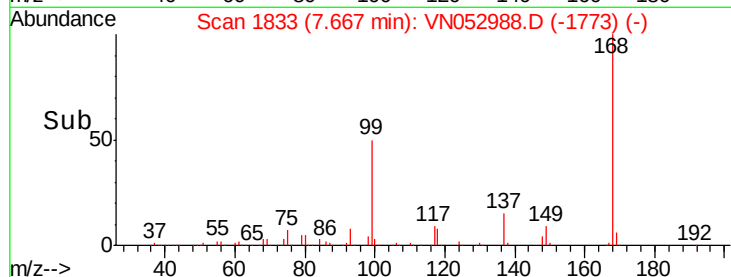
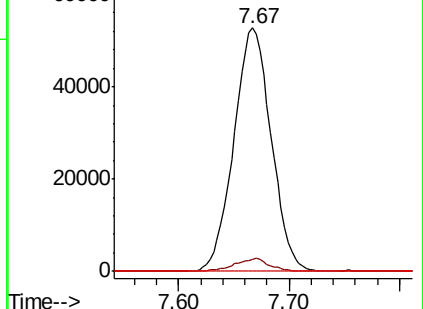
121 0.0 24.9 37.3#



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: 2.919 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN052988.D

Acq: 19 Dec 2018 4:12

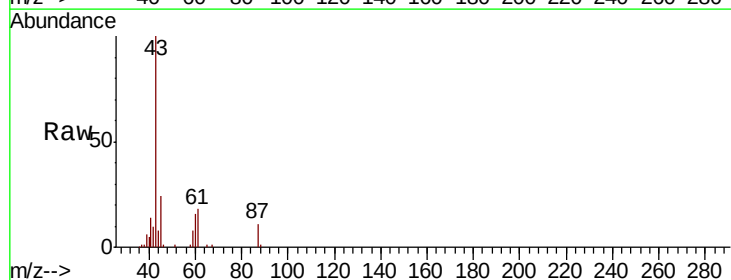
Tgt Ion: 43 Resp: 88299

Ion Ratio Lower Upper

43 100

61 16.2 22.9 34.3#

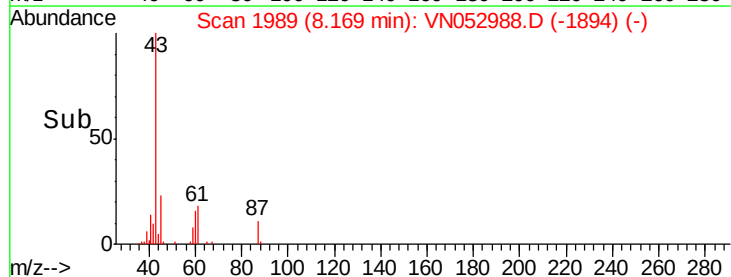
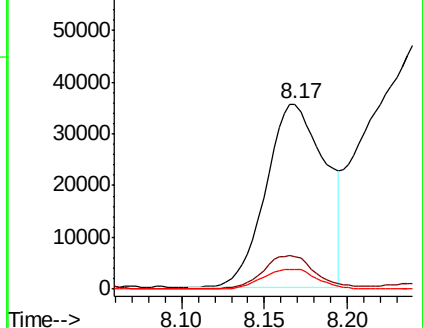
87 9.9 10.6 15.8#

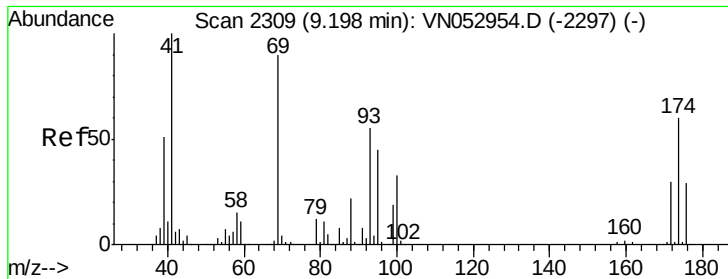


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

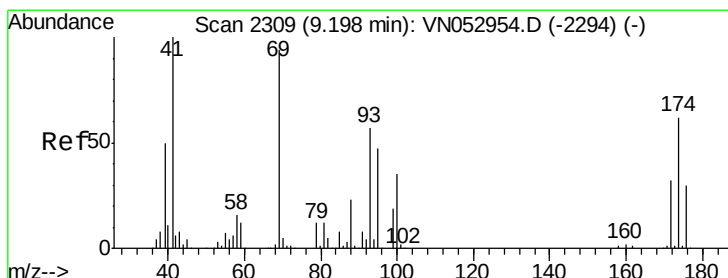
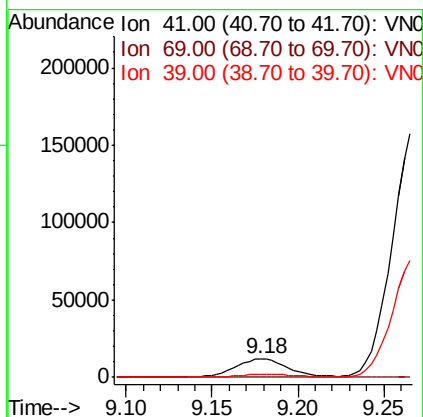
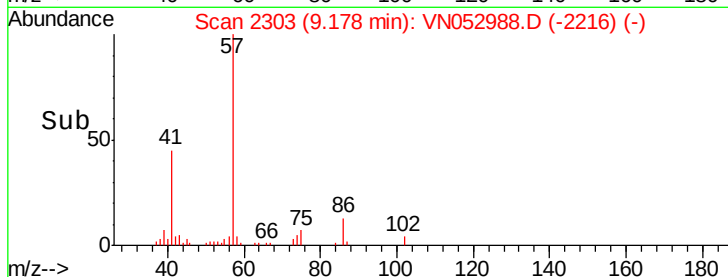
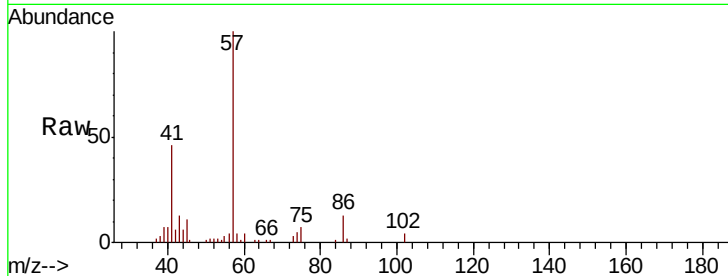




#48
Methvl methacrylate
Concen: 2.138 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN052988.D
Acq: 19 Dec 2018 4:12

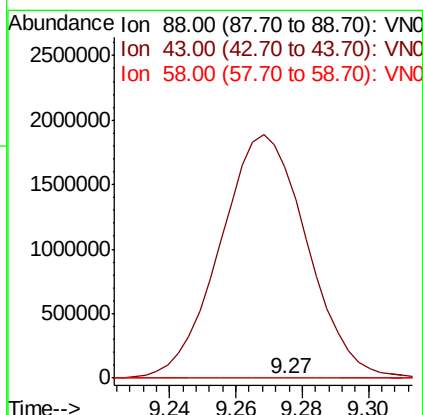
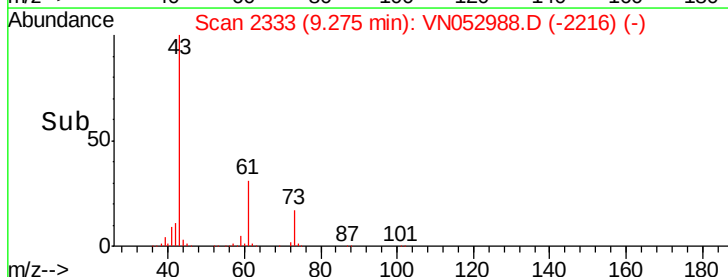
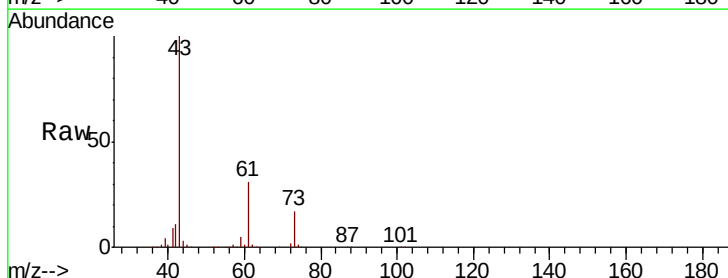
Instrument :
MSVOA_N
ClientSampleId :
PB115784ZHE#03

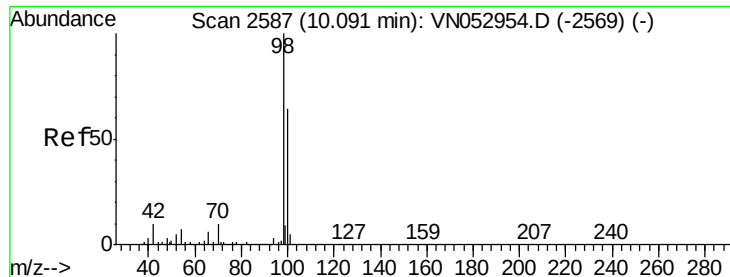
Tot Ion: 41 Resp: 24253
Ion Ratio Lower Upper
41 100
69 0.0 72.2 108.2#
39 0.0 41.9 62.9#



#49
1,4-Dioxane
Concen: 4.271 ug/l
RT: 9.27 min Scan# 2333
Delta R.T. 0.08 min
Lab File: VN052988.D
Acq: 19 Dec 2018 4:12

Tgt Ion: 88 Resp: 613
Ion Ratio Lower Upper
88 100
43 564644.0 26.6 40.0#
58 2301.0 58.4 87.6#





#50

Toluene-d8

Concen: 4.271 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052988.D

Acq: 19 Dec 2018 4:12

Instrument :

MSVOA_N

ClientSampleId :

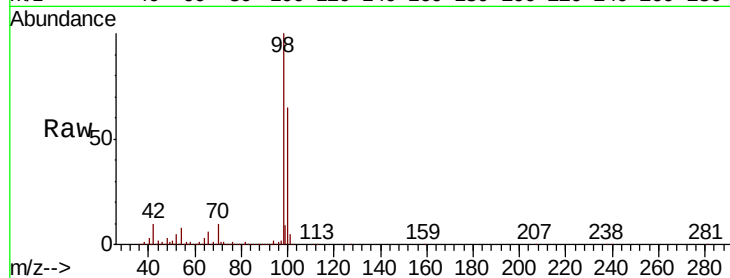
PB115784ZHE#03

Tot Ion: 98 Resp: 2664876

Ion Ratio Lower Upper

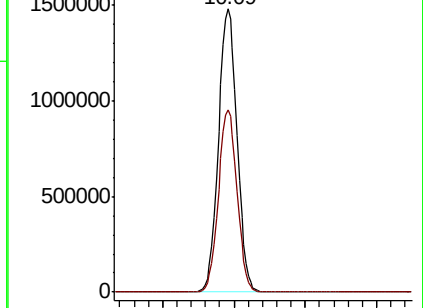
98 100

100 64.4 51.6 77.4

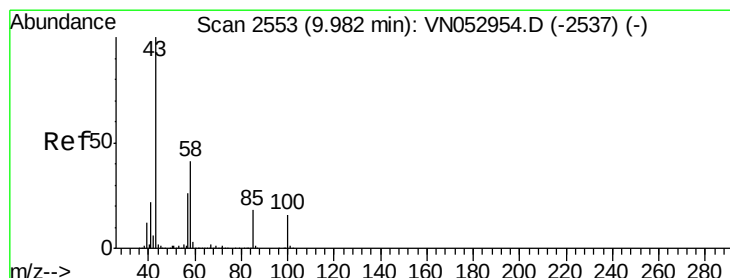
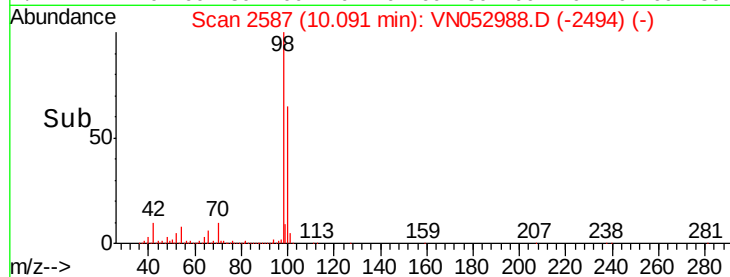


Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



Time-->



#51

4-Methyl-2-Pentanone

Concen: 2.799 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052988.D

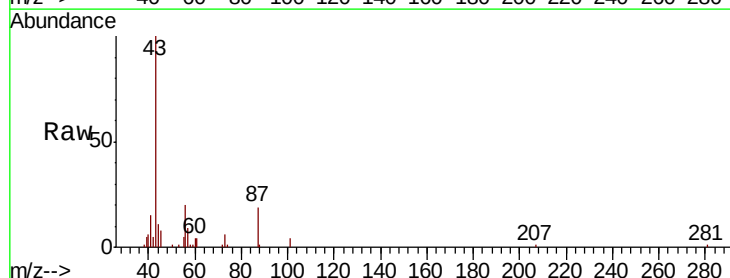
Acq: 19 Dec 2018 4:12

Tgt Ion: 43 Resp: 31690

Ion Ratio Lower Upper

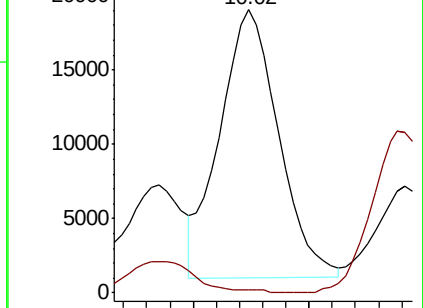
43 100

58 0.0 32.2 48.4#

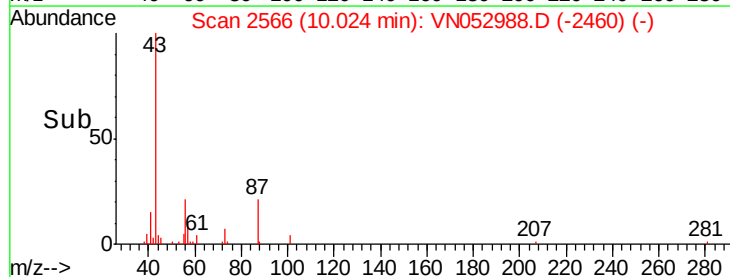


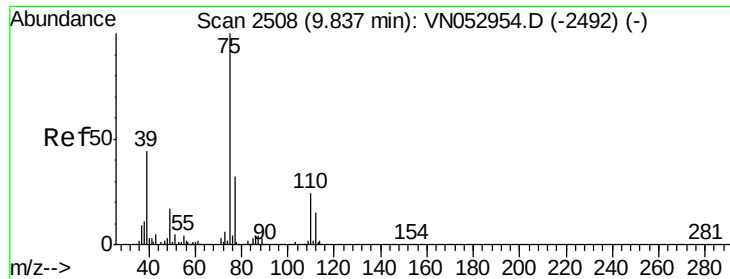
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->





#54

cis-1,3-Dichloropropene

Concen: 8.331 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN052988.D

Acq: 19 Dec 2018 4:12

Instrument :

MSVOA_N

ClientSampleId :

PB115784ZHE#03

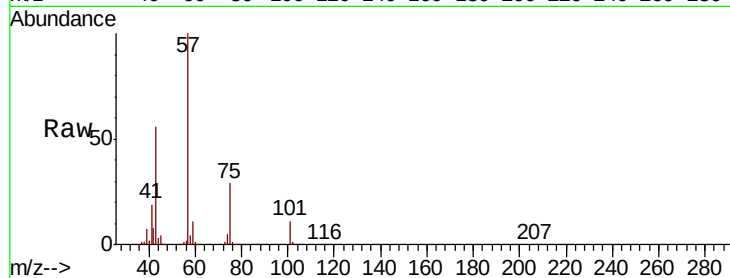
Tot Ion: 75 Resp: 202056

Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.8#

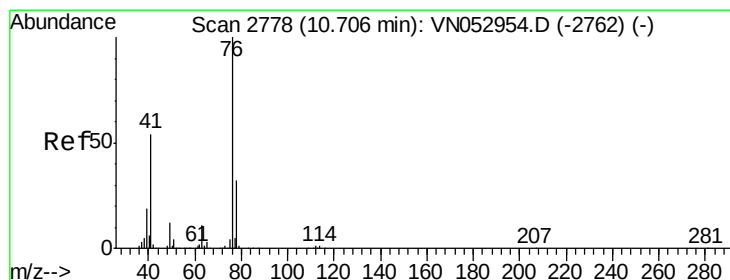
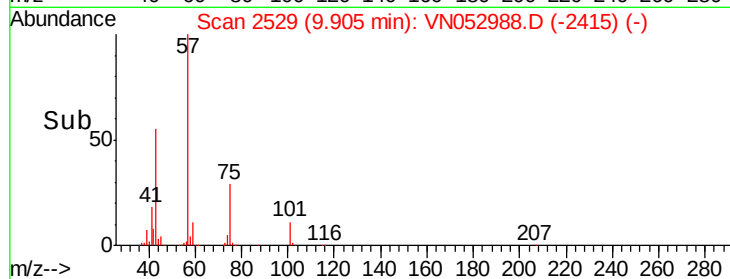
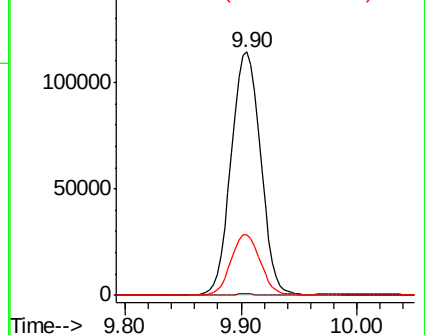
39 25.0 34.8 52.2#



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



#57

1,3-Dichloropropane

Concen: 1.556 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN052988.D

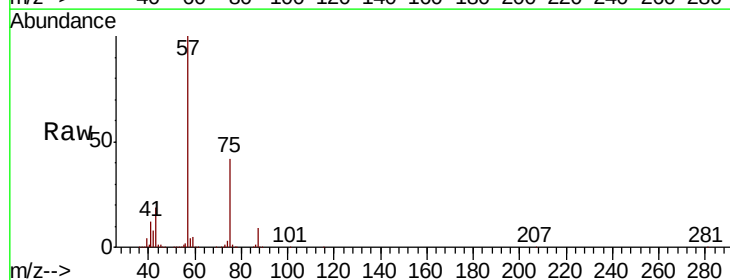
Acq: 19 Dec 2018 4:12

Tgt Ion: 76 Resp: 35950

Ion Ratio Lower Upper

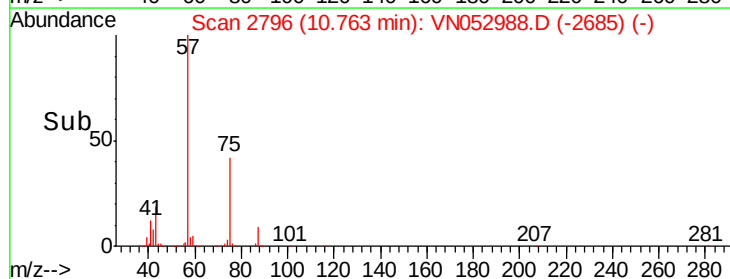
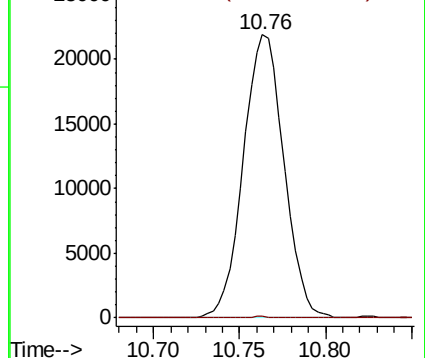
76 100

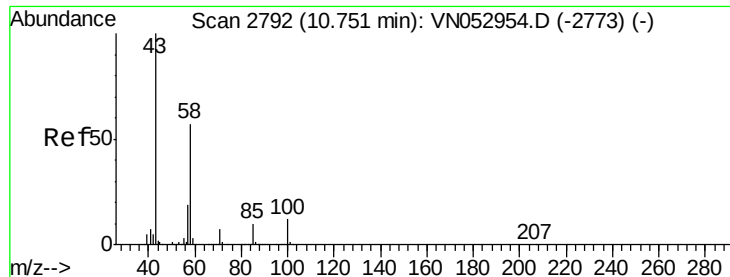
78 0.2 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

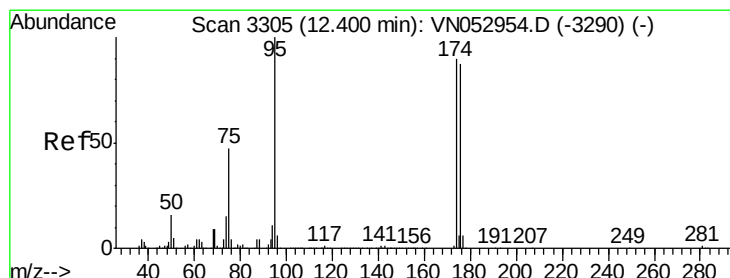
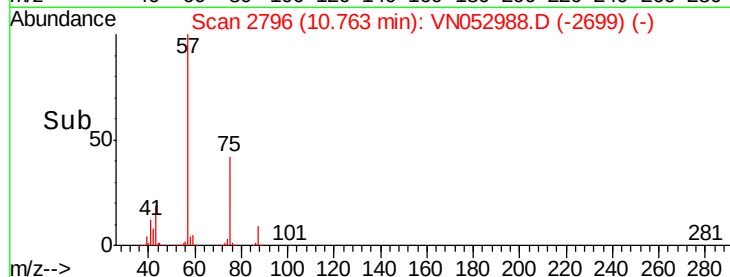
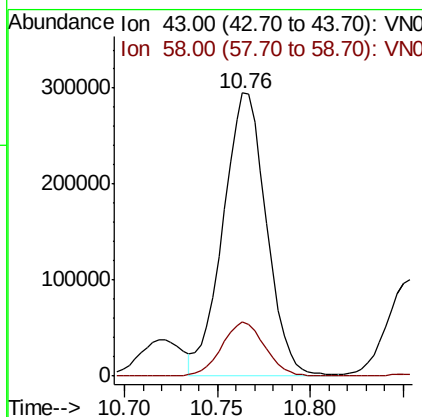
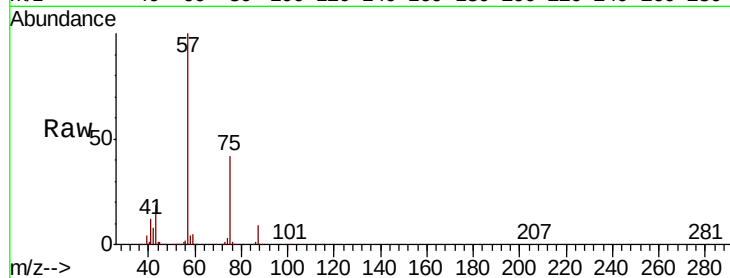




#59
2-Hexanone
Concen: 61.849 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN052988.D
Acq: 19 Dec 2018 4:12

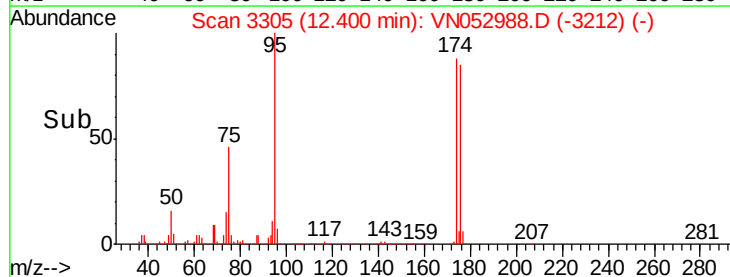
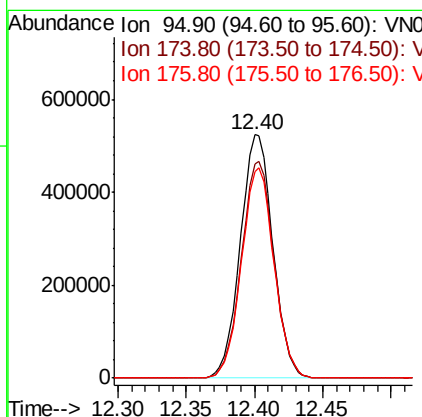
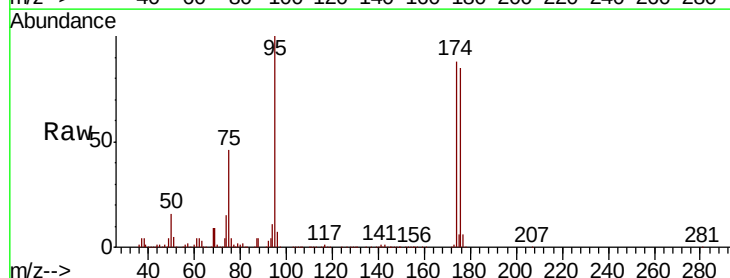
Instrument :
MSVOA_N
ClientSampleId :
PB115784ZHE#03

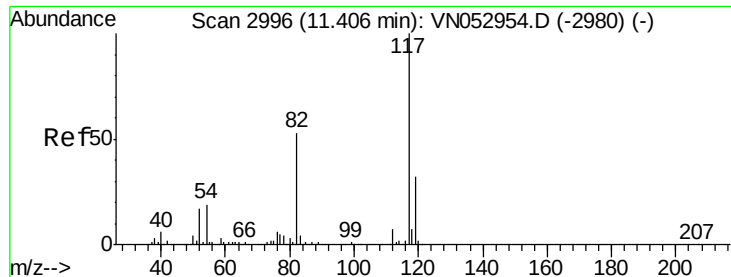
Tot Ion: 43 Resp: 473816
Ion Ratio Lower Upper
43 100
58 19.3 28.1 84.3#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN052988.D
Acq: 19 Dec 2018 4:12

Tgt Ion: 95 Resp: 866732
Ion Ratio Lower Upper
95 100
174 89.1 0.0 178.8
176 86.1 0.0 173.8

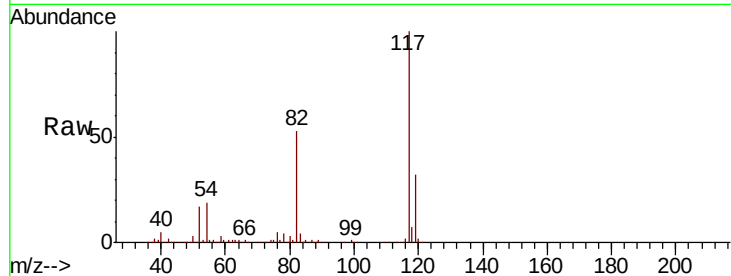




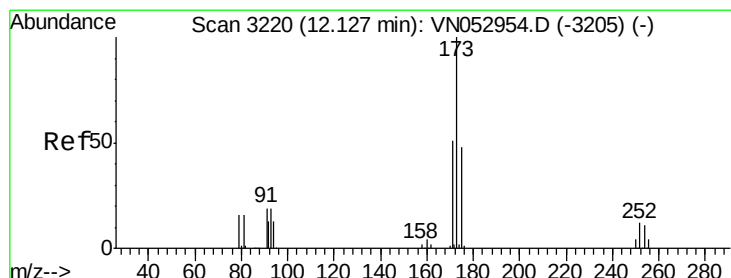
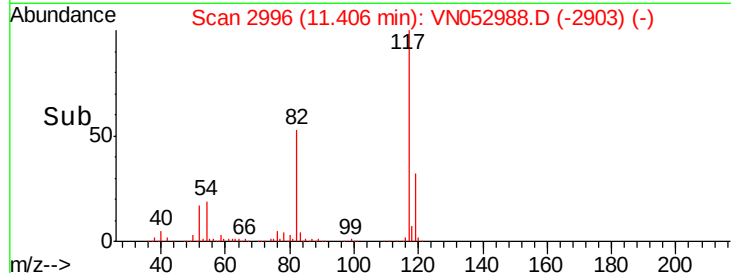
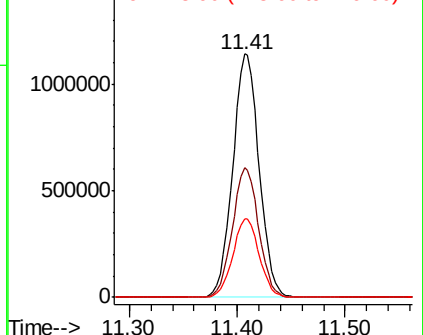
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052988.D
Acq: 19 Dec 2018 4:12

Instrument :
MSVOA_N
ClientSampleId :
PB115784ZHE#03

Tot Ion:117 Resp: 1938556
Ion Ratio Lower Upper
117 100
82 53.1 42.8 64.2
119 32.3 25.5 38.3

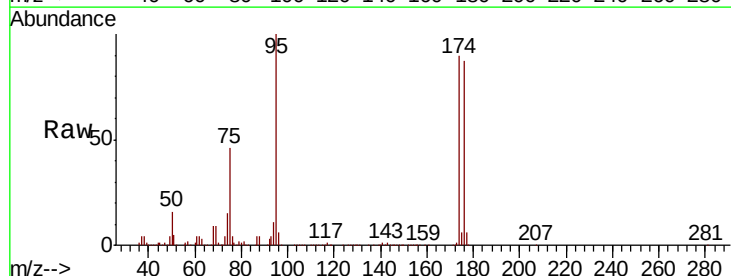


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

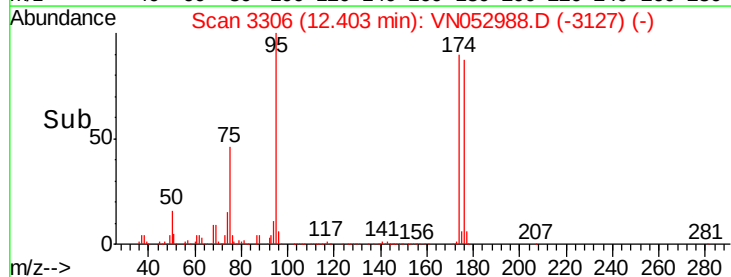
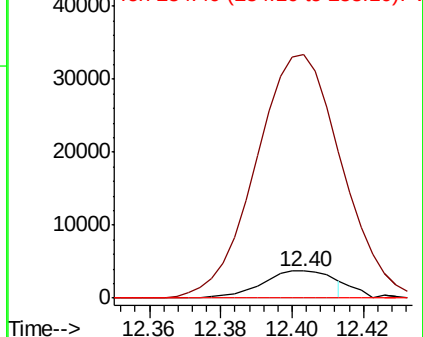


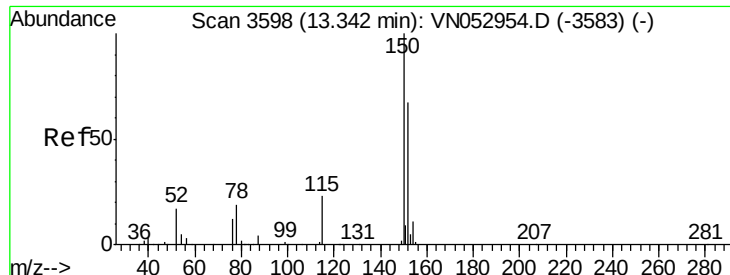
#71
Bromoform
Concen: 0.472 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN052988.D
Acq: 19 Dec 2018 4:12

Tgt Ion:173 Resp: 5096
Ion Ratio Lower Upper
173 100
175 949.7 24.3 72.9#
254 0.0 0.1 0.1#



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: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN052988.D

Acq: 19 Dec 2018 4:12

Instrument :

MSVOA_N

ClientSampleId :

PB115784ZHE#03

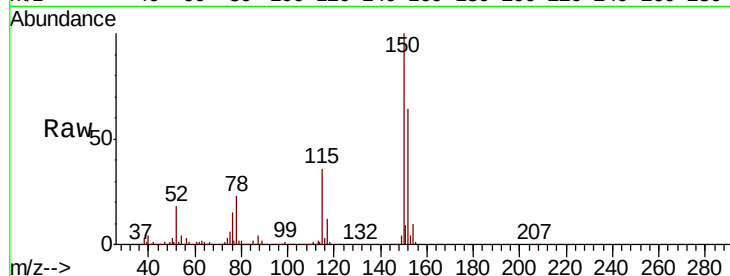
Tot Ion:152 Resp: 760586

Ion Ratio Lower Upper

152 100

115 55.8 28.3 85.0

150 155.6 0.0 347.8

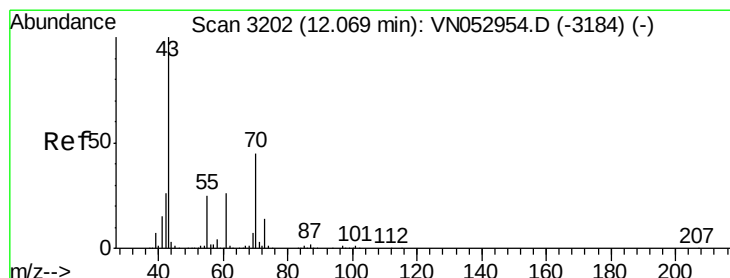
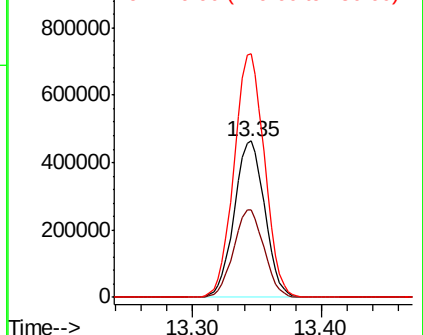
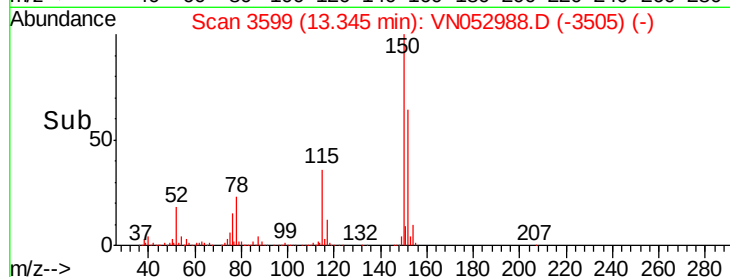


Abundance

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



#74

N-ethyl acetate

Concen: 3.742 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN052988.D

Acq: 19 Dec 2018 4:12

Tgt Ion: 43 Resp: 61821

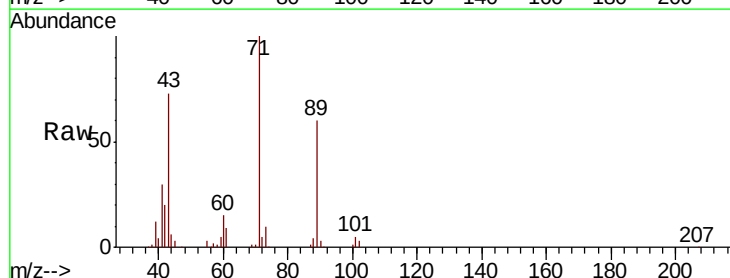
Ion Ratio Lower Upper

43 100

70 1.9 34.2 51.4#

55 4.6 20.3 30.5#

61 11.9 20.0 30.0#



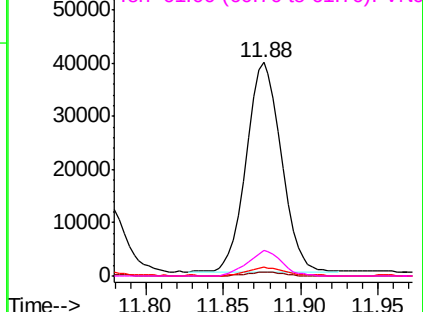
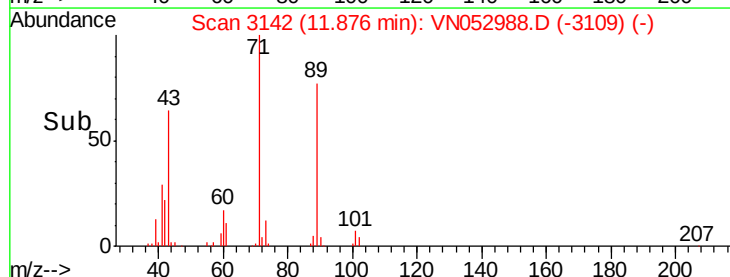
Abundance

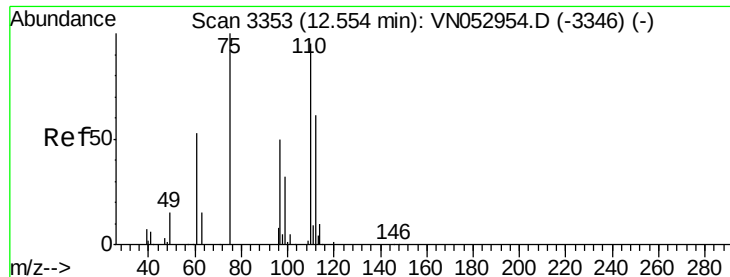
Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 31.265 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052988.D

Acq: 19 Dec 2018 4:12

Instrument :

MSVOA_N

ClientSampleId :

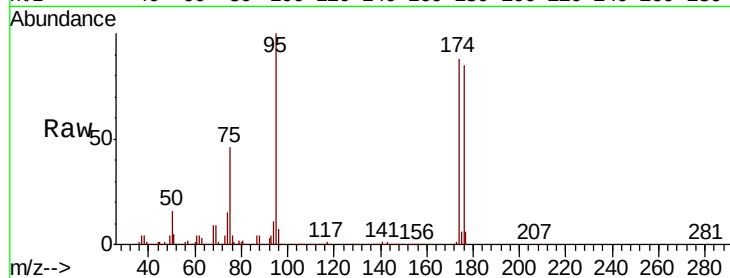
PB115784ZHE#03

Tot Ion: 75 Resp: 400303

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN052954.D (-3346) (-)

Ion 77.00 (76.70 to 77.70): VN052954.D (-3346) (-)

12.40

250000

200000

150000

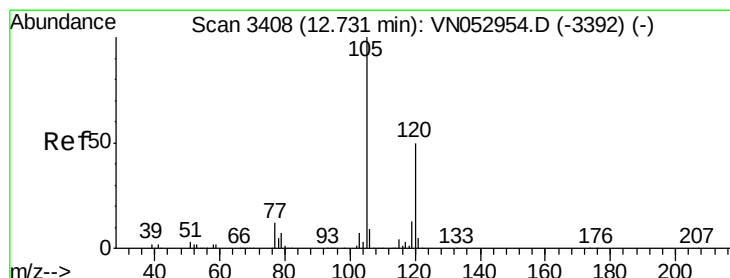
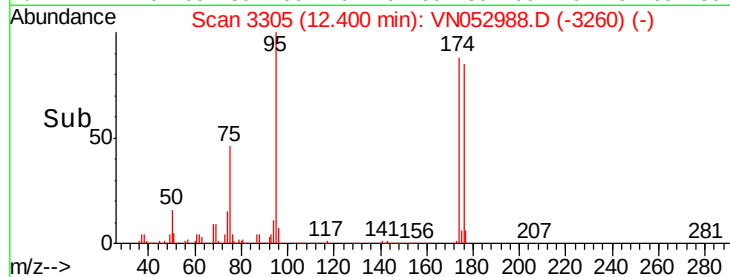
100000

50000

0

Time-->

12.35 12.40 12.45



#80

1,3,5-Trimethylbenzene

Concen: 0.490 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052988.D

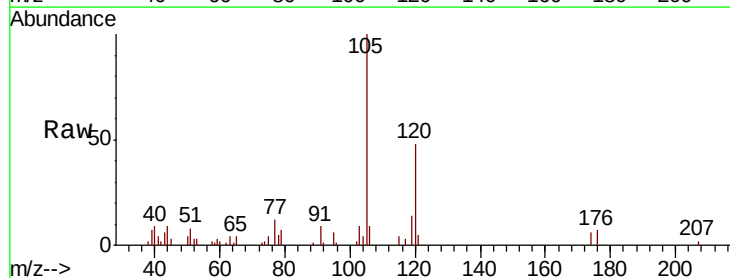
Acq: 19 Dec 2018 4:12

Tgt Ion: 105 Resp: 23765

Ion Ratio Lower Upper

105 100

120 49.8 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): VN052954.D (-3392) (-)

Ion 120.00 (119.70 to 120.70): VN052954.D (-3392) (-)

12.73

15000

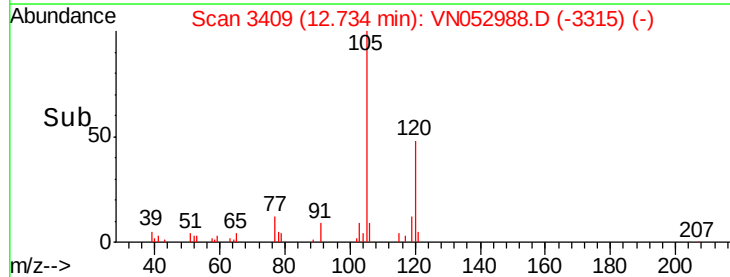
10000

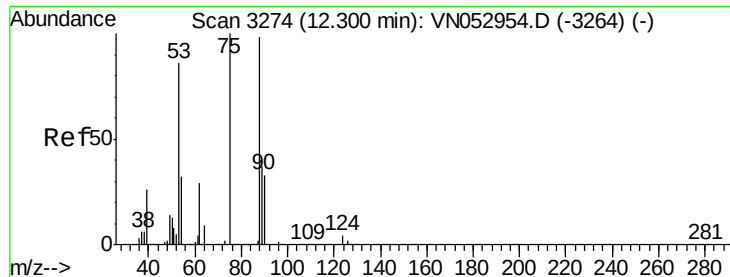
5000

0

Time-->

12.70 12.75 12.80





#81

trans-1,4-Dichloro-2-butene

Concen: 100.770 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052988.D

Acq: 19 Dec 2018 4:12

Instrument :

MSVOA_N

ClientSampleId :

PB115784ZHE#03

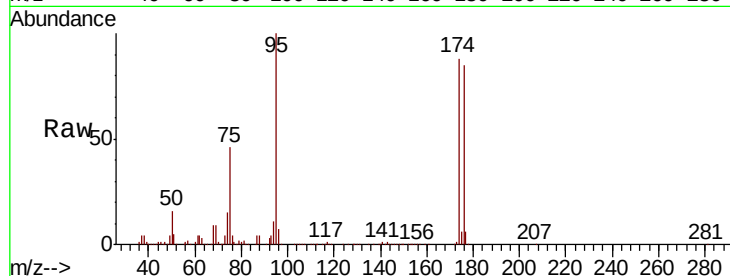
Tot Ion: 75 Resp: 400303

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

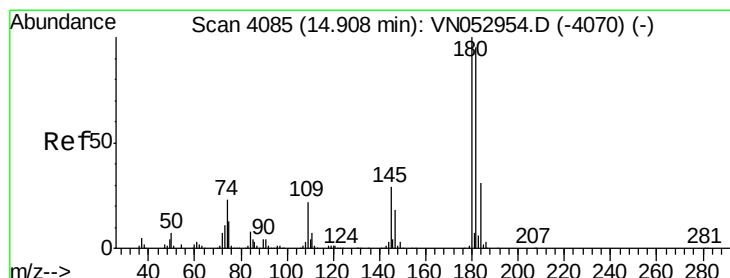
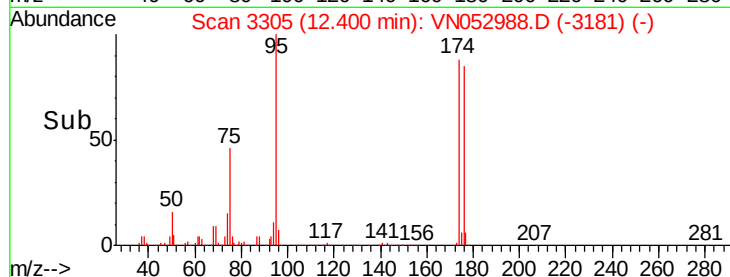
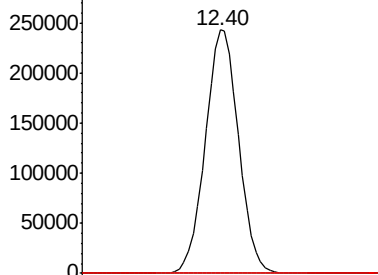
89 0.0 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VN052954.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN052954.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN052954.D (-3264) (-)



#93

1,2,4-Trichlorobenzene

Concen: 0.636 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN052988.D

Acq: 19 Dec 2018 4:12

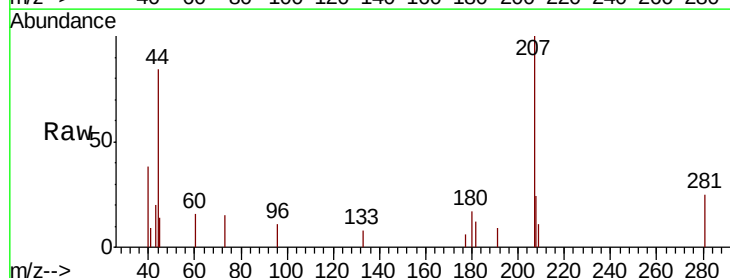
Tgt Ion: 180 Resp: 553

Ion Ratio Lower Upper

180 100

182 82.1 47.8 143.3

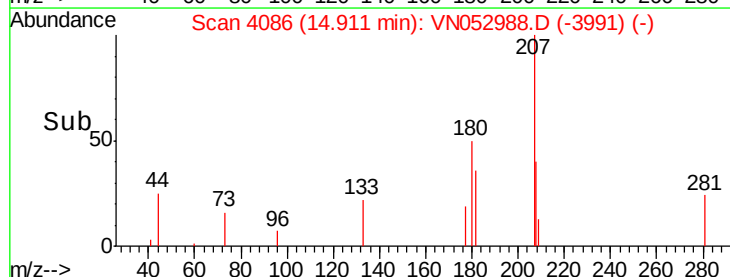
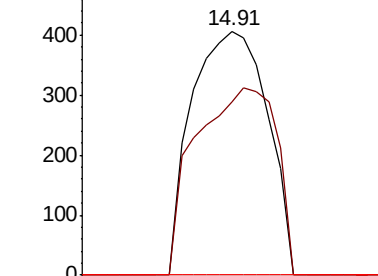
145 0.0 14.2 42.6#

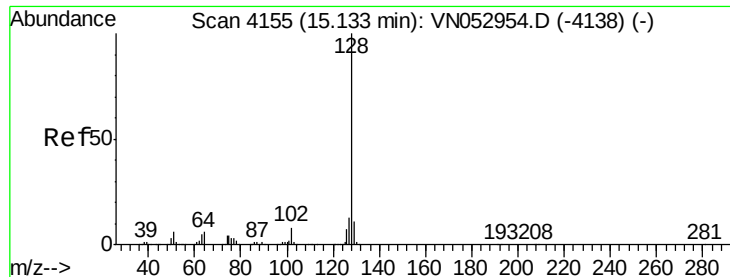


Abundance Ion 179.80 (179.50 to 180.50): VN052954.D (-4070) (-)

Ion 181.80 (181.50 to 182.50): VN052954.D (-4070) (-)

Ion 144.80 (144.50 to 145.50): VN052954.D (-4070) (-)





#95

Naphthalene

Concen: 1.191 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN052988.D

Acq: 19 Dec 2018 4:12

Instrument :

MSVOA_N

ClientSampleId :

PB115784ZHE#03

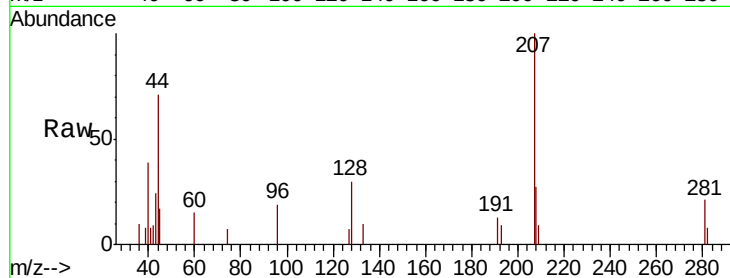
Tot Ion:128 Resp: 1358

Ion Ratio Lower Upper

128 100

127 7.0 10.2 15.4#

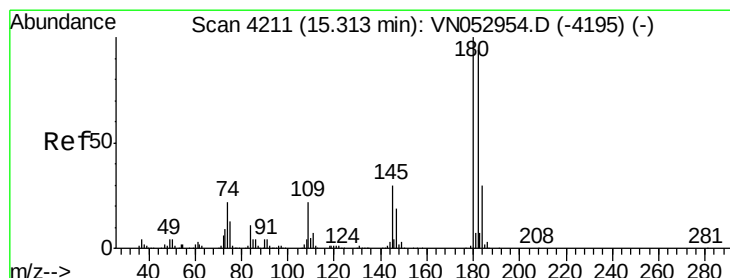
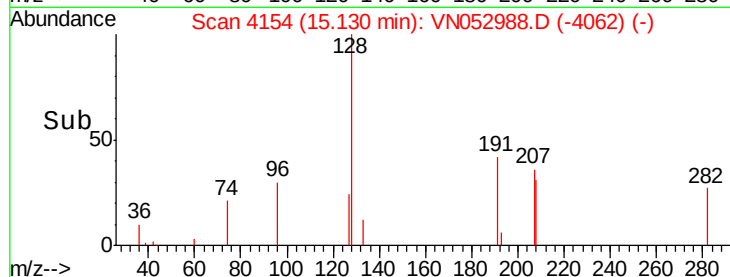
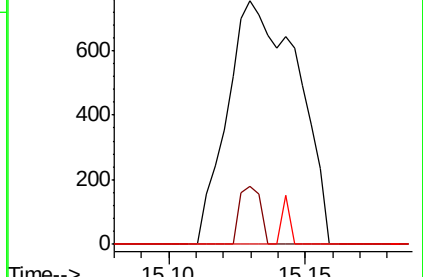
129 2.1 8.6 13.0#



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



#96

1,2,3-Trichlorobenzene

Concen: 0.552 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN052988.D

Acq: 19 Dec 2018 4:12

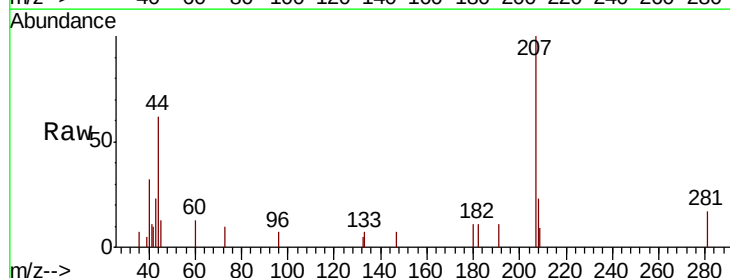
Tgt Ion:180 Resp: 543

Ion Ratio Lower Upper

180 100

182 104.2 47.9 143.7

145 0.0 15.0 45.0#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

