

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121818\
 Data File : VN052986.D
 Acq On : 19 Dec 2018 3:19
 Operator : MD\SY
 Sample : PB115784ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 39 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115784ZHE#01

Quant Time: Dec 19 03:55:19 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	1379572	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2127168	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1924686	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	821240	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	693817	49.56	ug/l	0.00
Spiked Amount			Recovery	=	99.12%	
35) Dibromofluoromethane	7.59	113	488814	50.31	ug/l	0.00
Spiked Amount			Recovery	=	100.62%	
50) Toluene-d8	10.09	98	2608270	50.00	ug/l	0.00
Spiked Amount			Recovery	=	100.00%	
62) 4-Bromofluorobenzene	12.40	95	892421	48.73	ug/l	0.00
Spiked Amount			Recovery	=	97.46%	

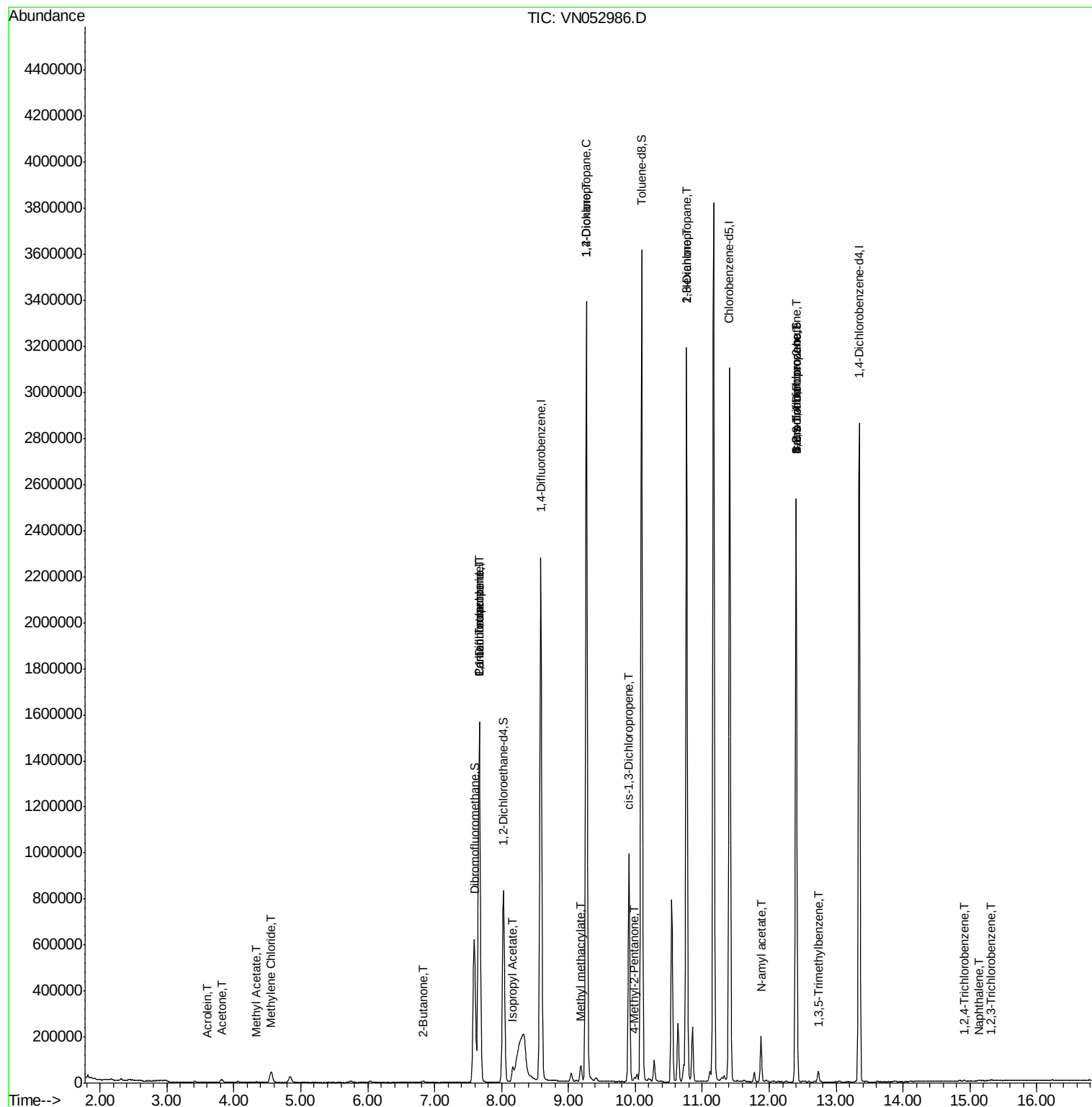
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	164	0.212	ug/l #	6
16) Acetone	3.82	43	22467	8.185	ug/l	98
18) Methyl Acetate	4.34	43	6385	1.494	ug/l #	71
20) Methylene Chloride	4.56	84	36849	2.461	ug/l	97
25) 2-Butanone	6.83	43	2231	0.484	ug/l #	84
31) Cyclohexane	7.67	56	22237	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	90223	4.419	ug/l #	48
38) Carbon Tetrachloride	7.67	117	117818	6.296	ug/l #	15
43) Isopropyl Acetate	8.17	43	76229	2.463	ug/l #	85
45) 1,2-Dichloropropane	9.27	63	4799	0.303	ug/l #	44
48) Methyl methacrylate	9.18	41	23646	2.138	ug/l #	22
49) 1,4-Dioxane	9.27	88	409	2.923	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	10833	0.981	ug/l	95
54) cis-1,3-Dichloropropene	9.91	75	191154	8.085	ug/l #	60
57) 1,3-Dichloropropane	10.76	76	33561	1.490	ug/l #	42
59) 2-Hexanone	10.76	43	447793	59.961	ug/l #	50
71) Bromoform	12.40	173	5067	0.473	ug/l #	1
74) N-amyl acetate	11.88	43	59047	3.310	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	410564	29.698	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	24367	0.465	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	410564	95.720	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.91	180	1565	0.701	ug/l	92
94) Hexachlorobutadiene	15.01	225	293	Below Cal	#	19
95) Naphthalene	15.13	128	4731	1.290	ug/l	98
96) 1,2,3-Trichlorobenzene	15.32	180	1556	0.624	ug/l	93

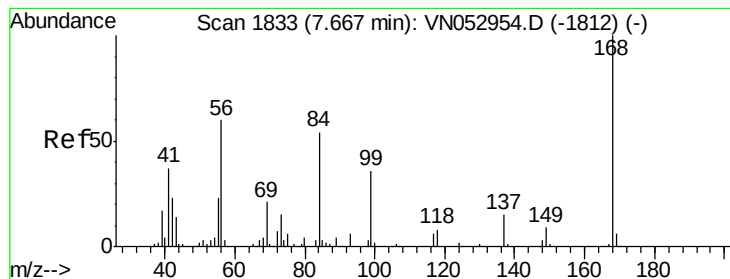
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN052986.D

Acq: 19 Dec 2018 3:19

Instrument :

MSVOA_N

ClientSampleId :

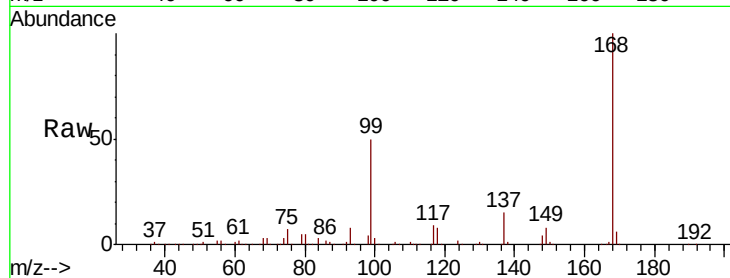
PB115784ZHE#01

Tot Ion:168 Resp: 1379572

Ion Ratio Lower Upper

168 100

99 50.2 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

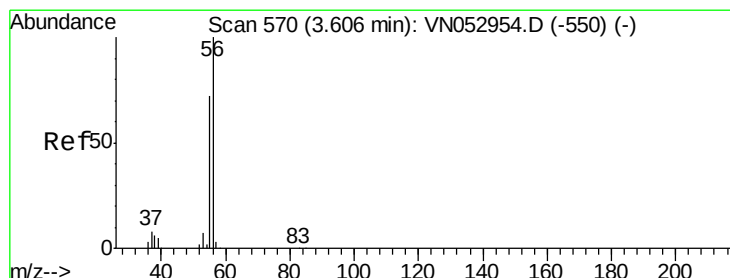
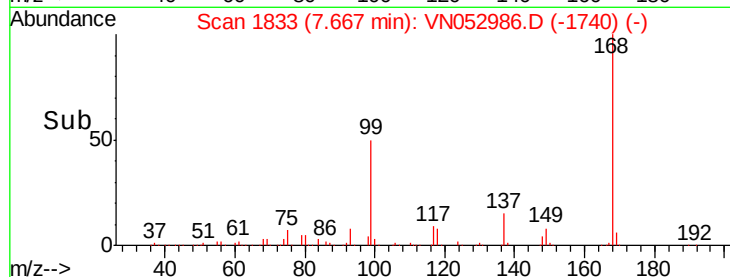
600000

400000

200000

0

Time-->



#13

Acrolein

Concen: 0.212 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN052986.D

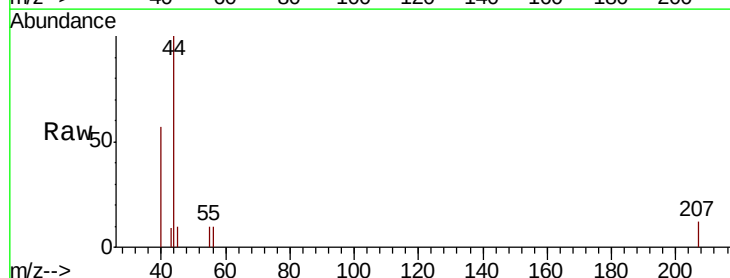
Acq: 19 Dec 2018 3:19

Tgt Ion: 56 Resp: 164

Ion Ratio Lower Upper

56 100

55 148.2 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VN052954.D (-550) (-)

Ion 55.00 (54.70 to 55.70): VN052954.D (-550) (-)

3.61

200

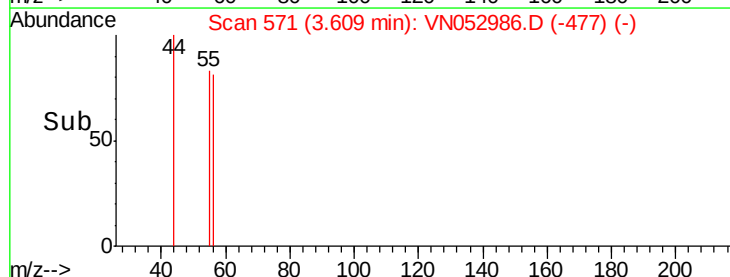
150

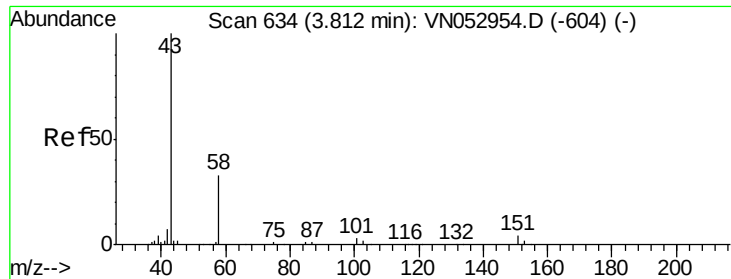
100

50

0

Time-->





#16

Acetone

Concen: 8.185 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN052986.D

Acq: 19 Dec 2018 3:19

Instrument :

MSVOA_N

ClientSampleId :

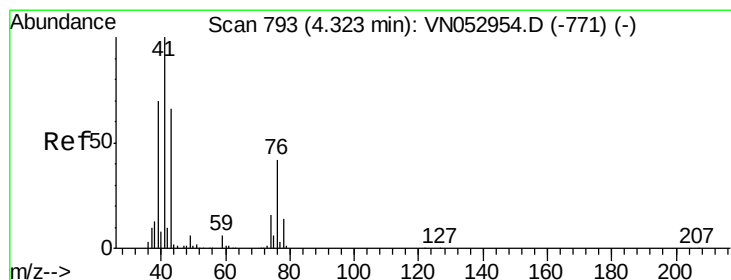
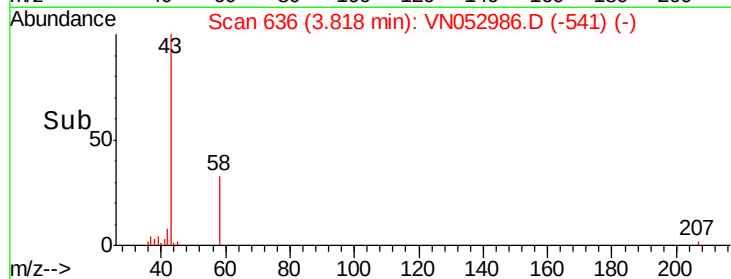
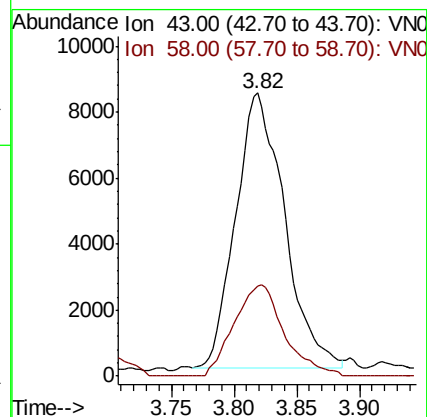
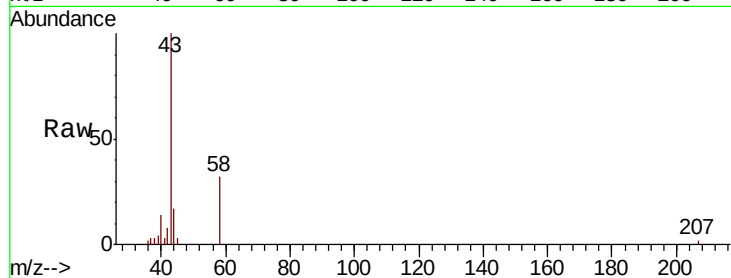
PB115784ZHE#01

Tot Ion: 43 Resp: 22467

Ion Ratio Lower Upper

43 100

58 32.8 25.4 38.0



#18

Methyl Acetate

Concen: 1.494 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN052986.D

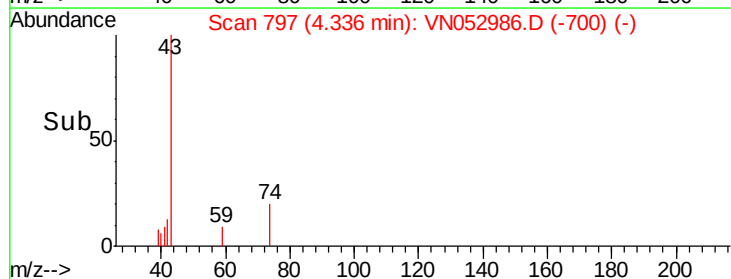
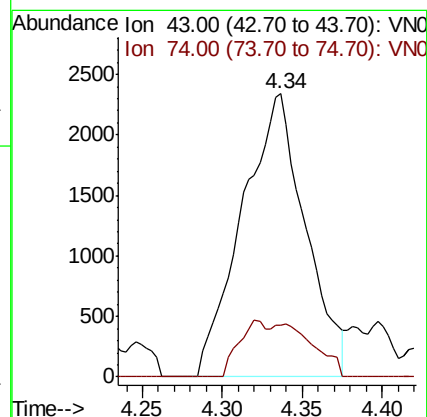
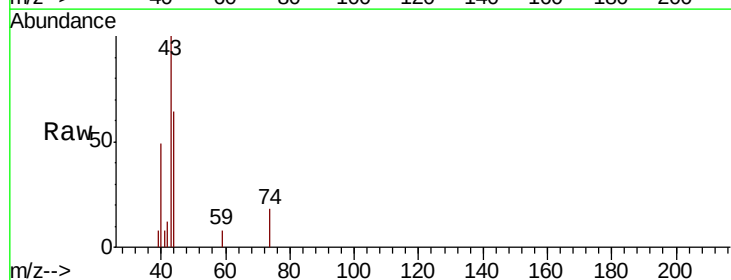
Acq: 19 Dec 2018 3:19

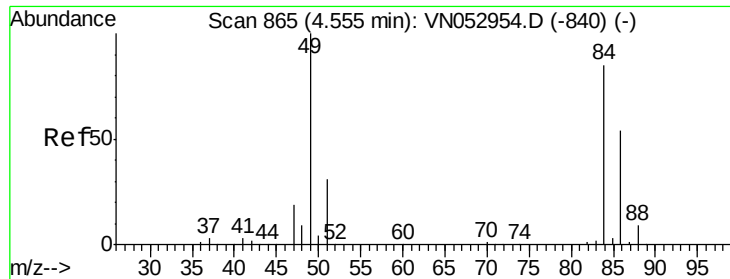
Tgt Ion: 43 Resp: 6385

Ion Ratio Lower Upper

43 100

74 9.5 19.2 28.8#

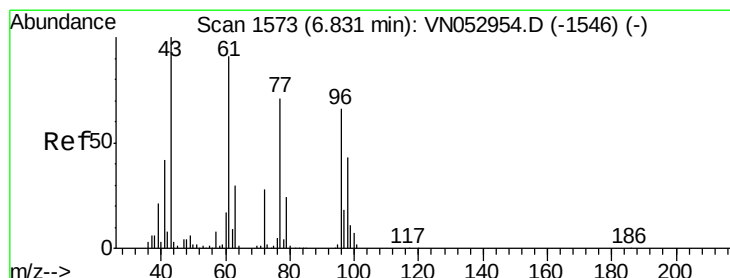
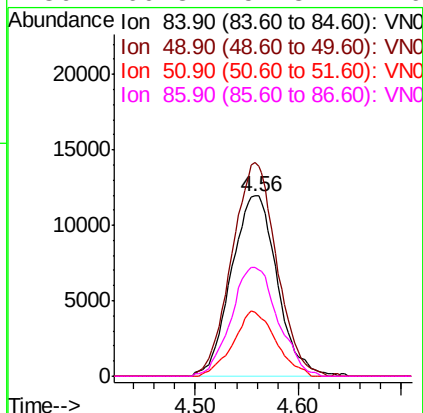
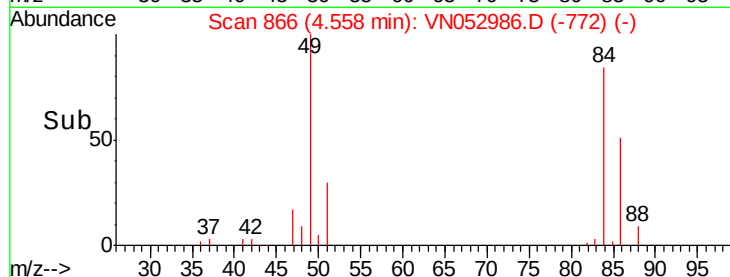
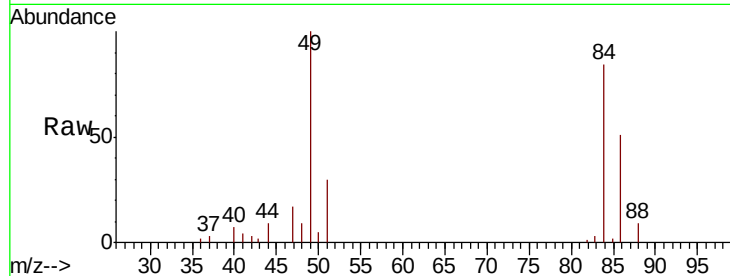




#20
Methvlene Chloride
Concen: 2.461 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052986.D
Acq: 19 Dec 2018 3:19

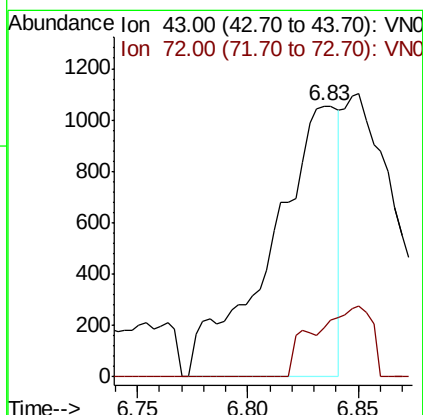
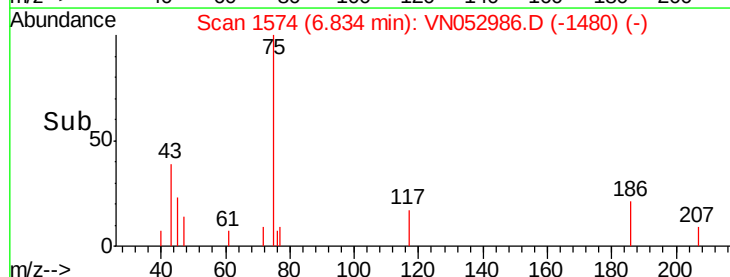
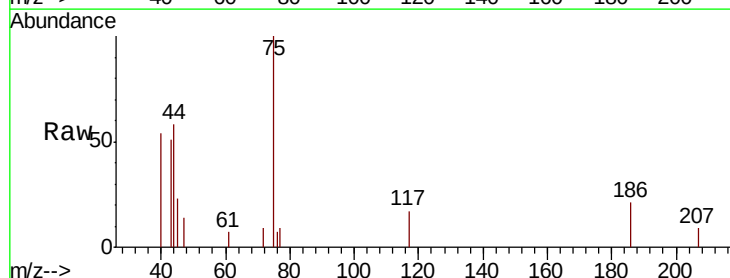
Instrument :
MSVOA_N
ClientSampleId :
PB115784ZHE#01

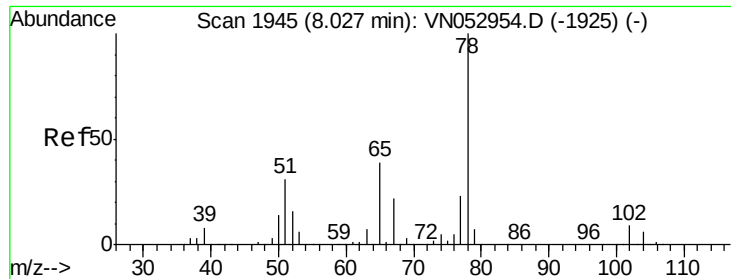
Tot Ion: 84 Resp: 36849
Ion Ratio Lower Upper
84 100
49 118.4 96.8 145.2
51 35.3 29.9 44.9
86 60.3 51.8 77.6



#25
2-Butanone
Concen: 0.484 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VN052986.D
Acq: 19 Dec 2018 3:19

Tgt Ion: 43 Resp: 2231
Ion Ratio Lower Upper
43 100
72 18.0 21.0 31.6#

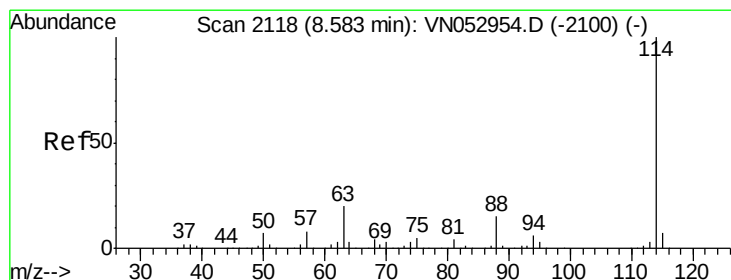
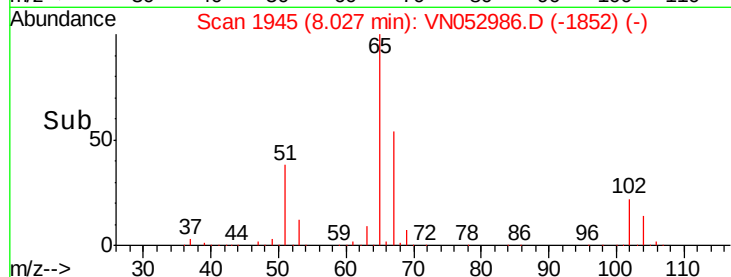
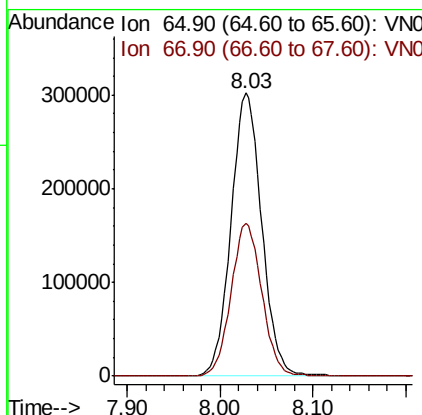
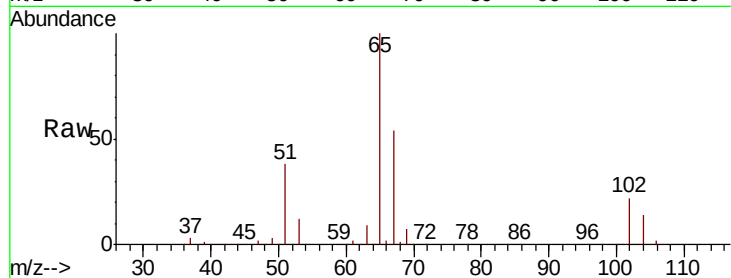




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052986.D
 Acq: 19 Dec 2018 3:19

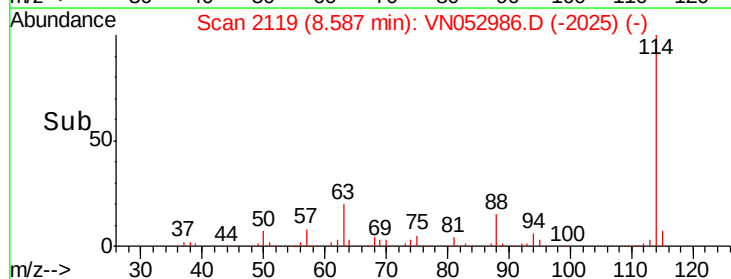
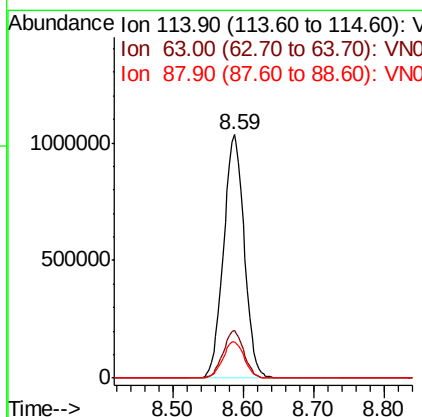
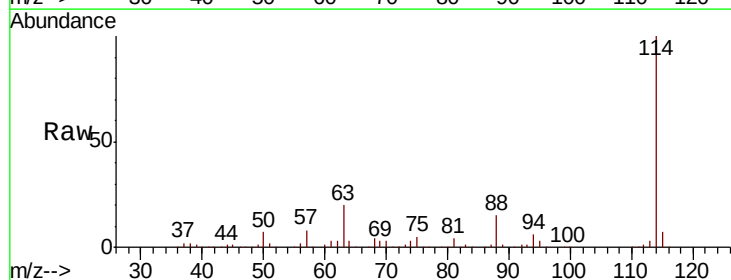
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115784ZHE#01

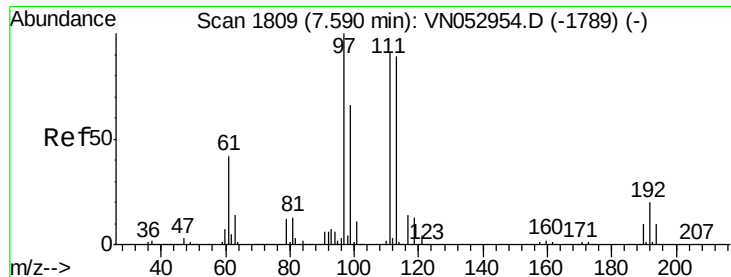
Tot Ion: 65 Resp: 693817
 Ion Ratio Lower Upper
 65 100
 67 54.2 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052986.D
 Acq: 19 Dec 2018 3:19

Tgt Ion: 114 Resp: 2127168
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 39.8
 88 15.2 0.0 31.0

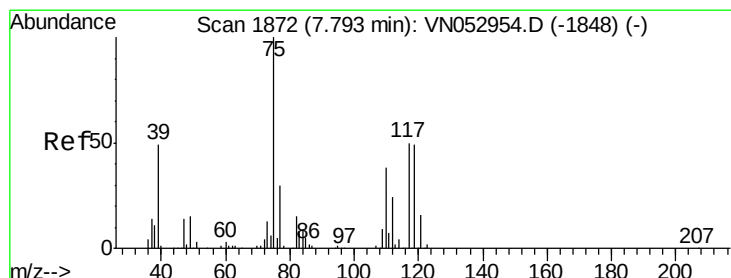
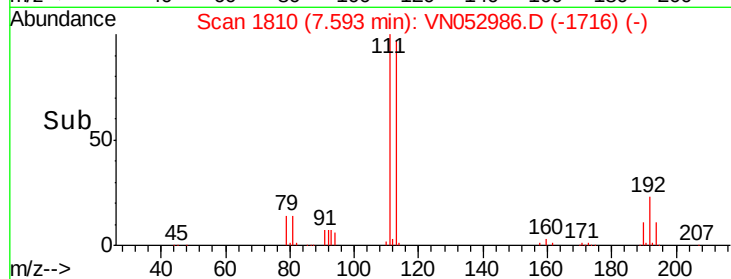
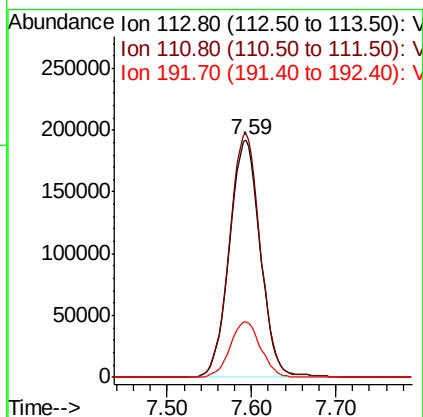
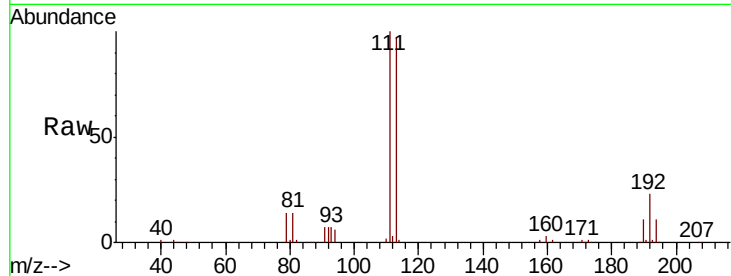




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052986.D
 Acq: 19 Dec 2018 3:19

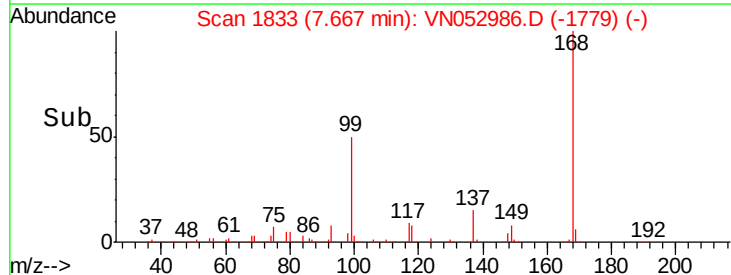
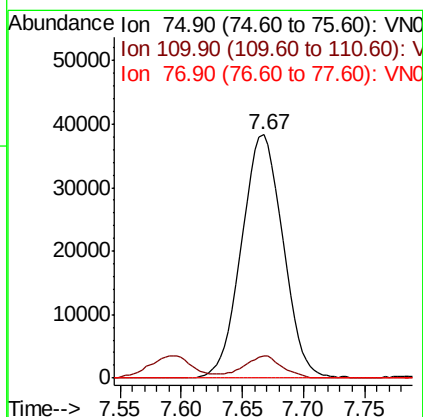
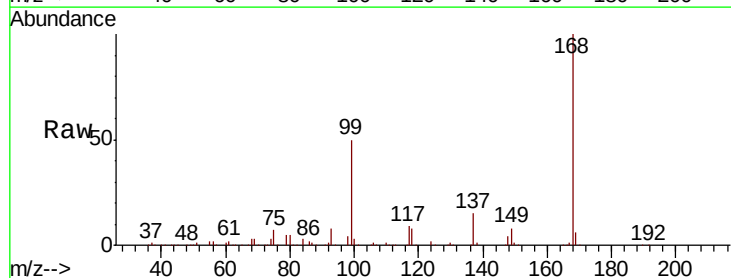
Instrument :
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 PB115784ZHE#01

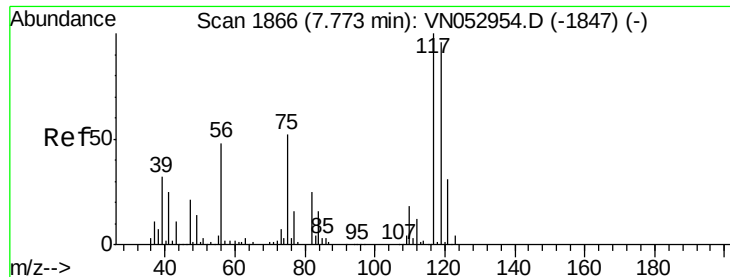
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.4	83.0	124.4
192	23.1	17.5	26.3



#36
 1,1-Dichloropropene
 Concen: 4.419 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052986.D
 Acq: 19 Dec 2018 3:19

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.3	18.2	54.6#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 6.296 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052986.D

Acq: 19 Dec 2018 3:19

Instrument :

MSVOA_N

ClientSampleId :

PB115784ZHE#01

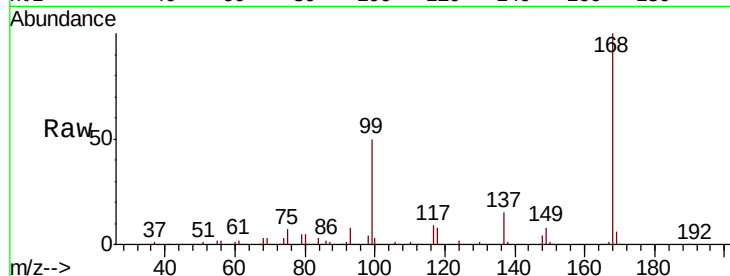
Tot Ion:117 Resp: 117818

Ion Ratio Lower Upper

117 100

119 4.4 77.1 115.7#

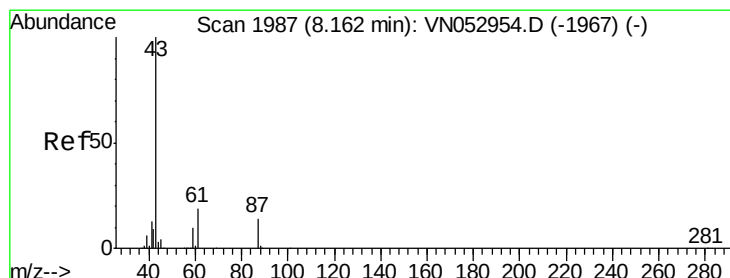
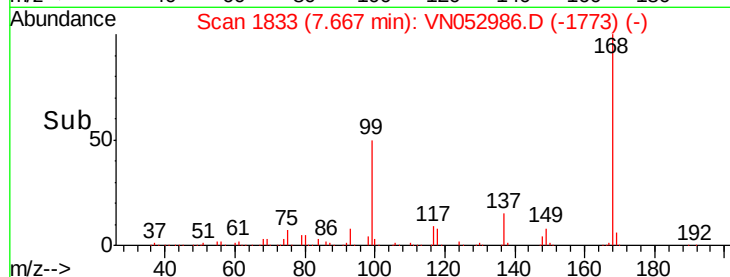
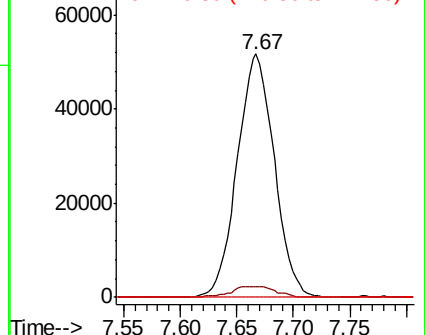
121 0.0 24.9 37.3#



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: 2.463 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052986.D

Acq: 19 Dec 2018 3:19

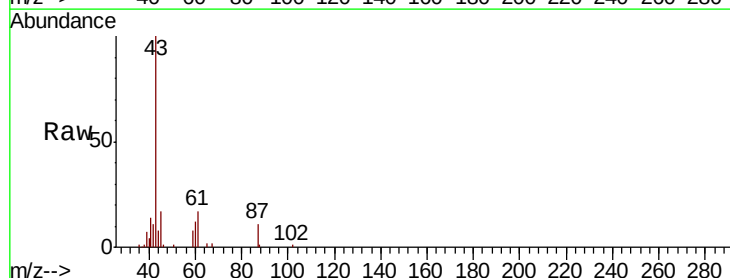
Tgt Ion: 43 Resp: 76229

Ion Ratio Lower Upper

43 100

61 18.1 22.9 34.3#

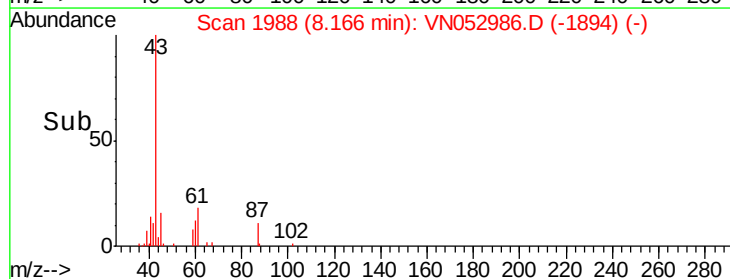
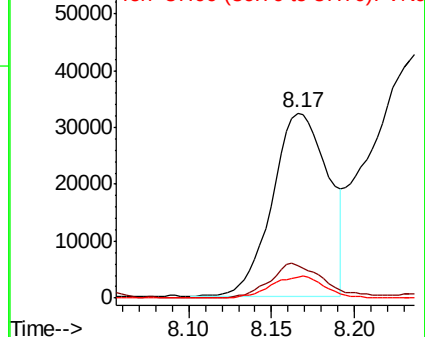
87 11.3 10.6 15.8

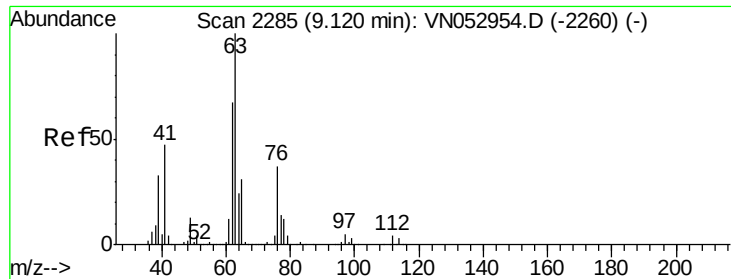


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.303 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.14 min

Lab File: VN052986.D

Acq: 19 Dec 2018 3:19

Instrument :

MSVOA_N

ClientSampleId :

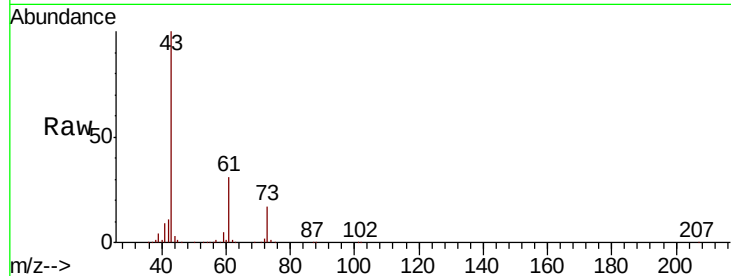
PB115784ZHE#01

Tot Ion: 63 Resp: 4799

Ion Ratio Lower Upper

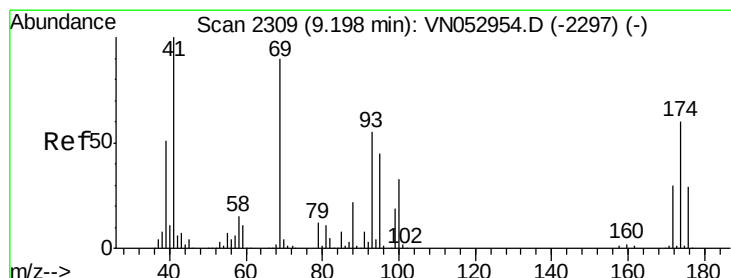
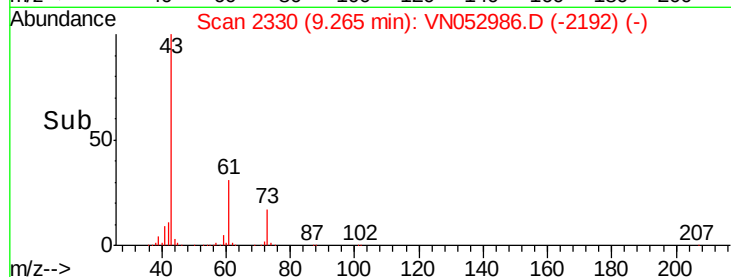
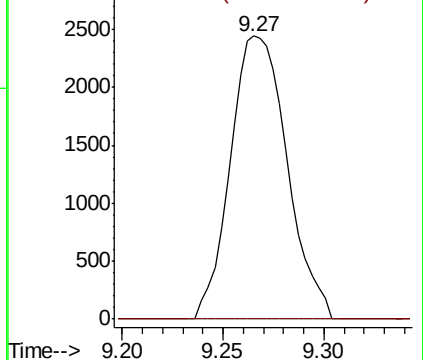
63 100

65 0.0 24.6 37.0#



Abundance Ion 62.90 (62.60 to 63.60): VNC

Ion 64.90 (64.60 to 65.60): VNC



#48

Methyl methacrylate

Concen: 2.138 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN052986.D

Acq: 19 Dec 2018 3:19

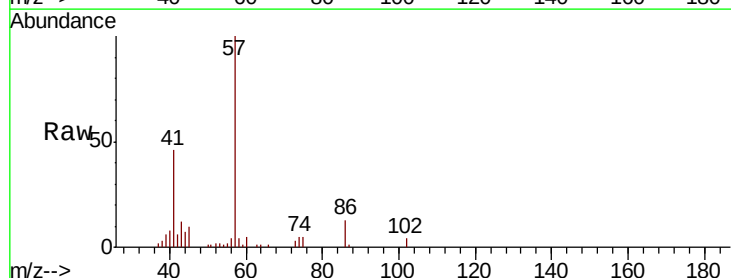
Tgt Ion: 41 Resp: 23646

Ion Ratio Lower Upper

41 100

69 0.0 72.2 108.2#

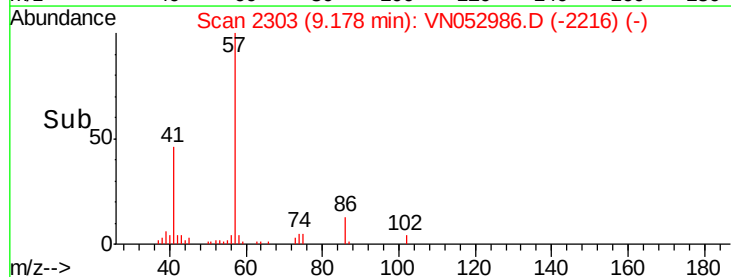
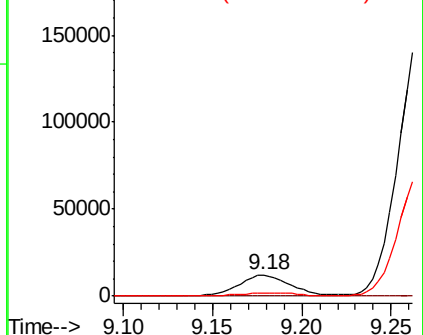
39 17.9 41.9 62.9#

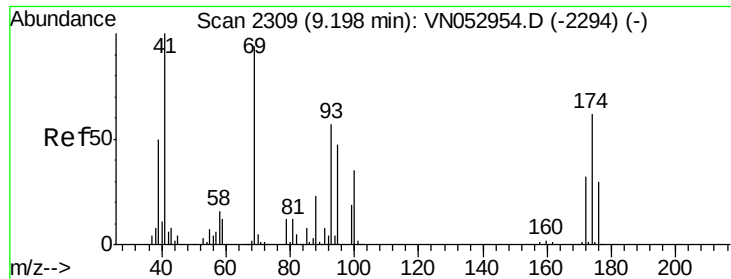


Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC





#49

1,4-Dioxane

Concen: 2.923 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.07 min

Lab File: VN052986.D

Acq: 19 Dec 2018 3:19

Instrument :

MSVOA_N

ClientSampleId :

PB115784ZHE#01

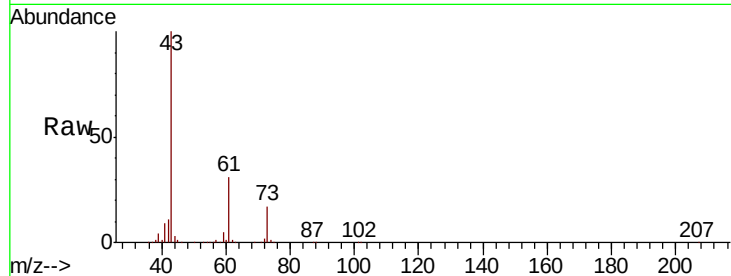
Tot Ion: 88 Resp: 409

Ion Ratio Lower Upper

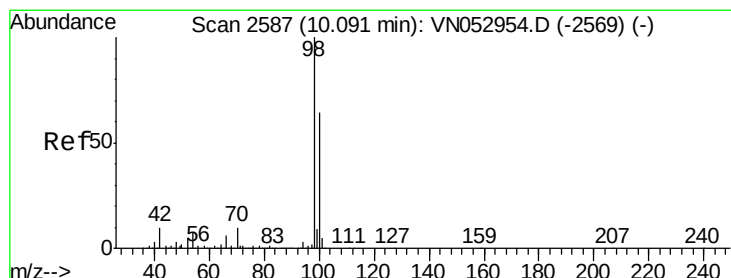
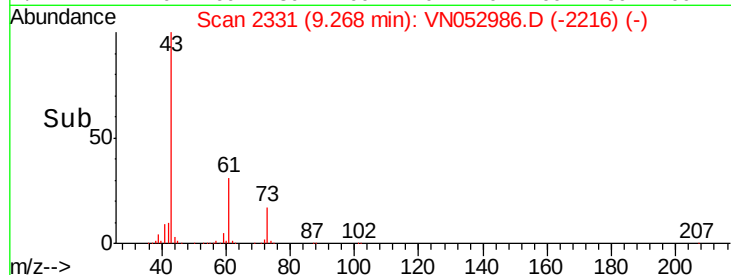
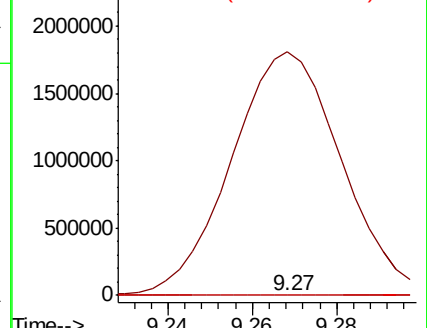
88 100

43 811235.7 26.6 40.0#

58 3353.1 58.4 87.6#



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: 2.923 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052986.D

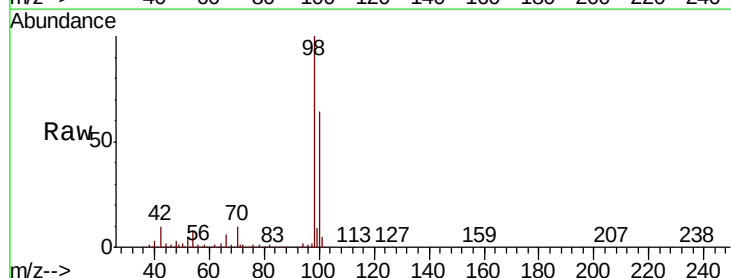
Acq: 19 Dec 2018 3:19

Tgt Ion: 98 Resp: 2608270

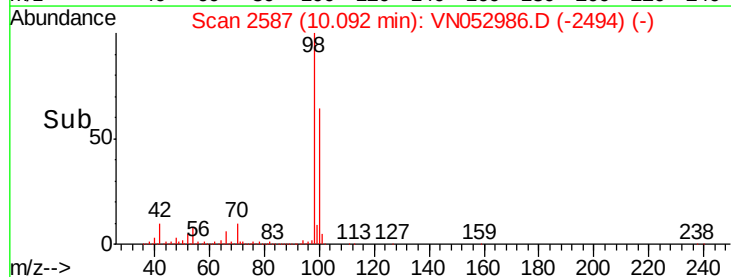
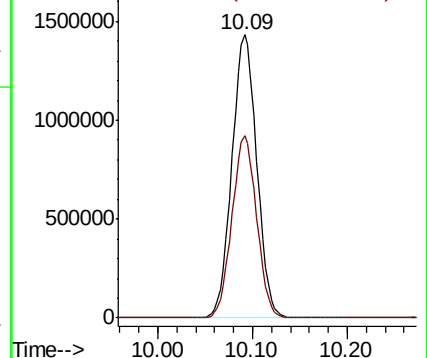
Ion Ratio Lower Upper

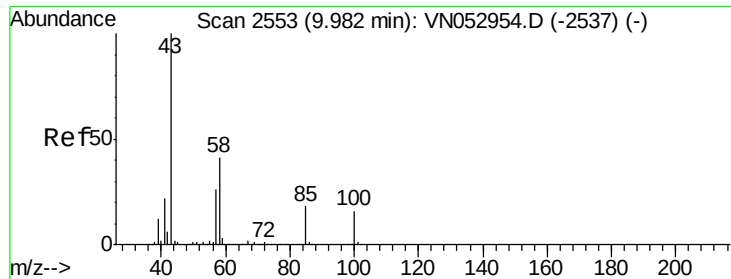
98 100

100 64.1 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.981 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN052986.D

Acq: 19 Dec 2018 3:19

Instrument :

MSVOA_N

ClientSampleId :

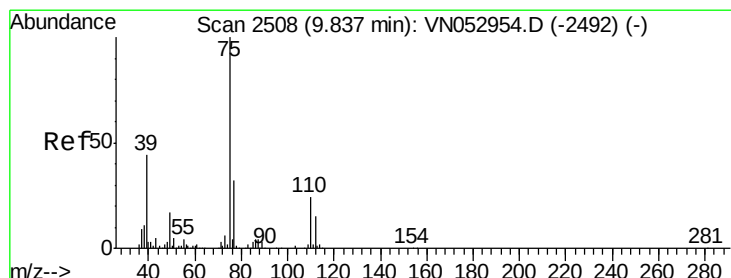
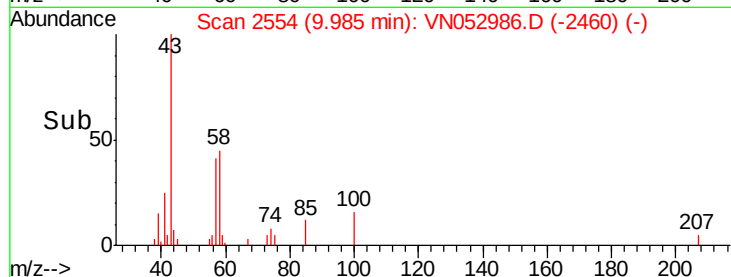
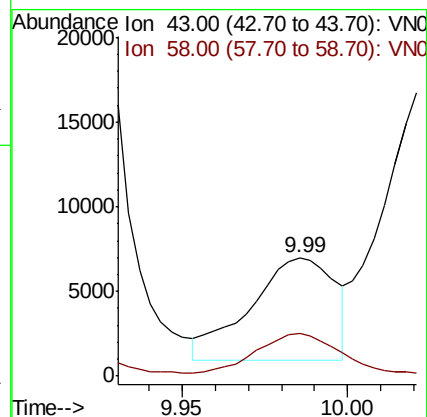
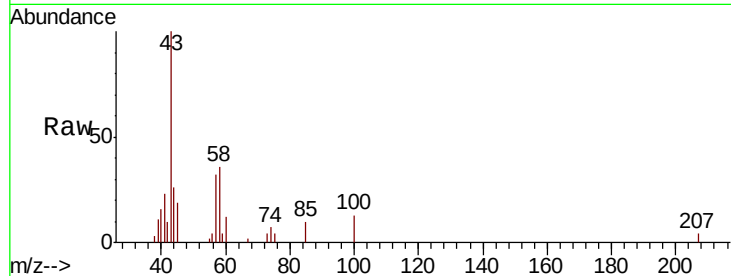
PB115784ZHE#01

Tot Ion: 43 Resp: 10833

Ion Ratio Lower Upper

43 100

58 43.5 32.2 48.4



#54

cis-1,3-Dichloropropene

Concen: 8.085 ug/l

RT: 9.91 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN052986.D

Acq: 19 Dec 2018 3:19

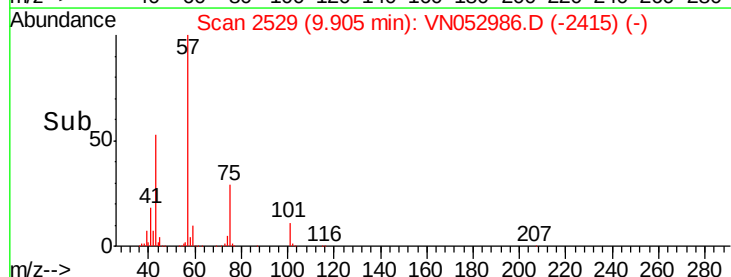
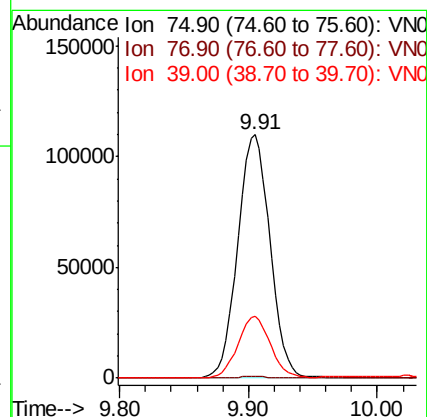
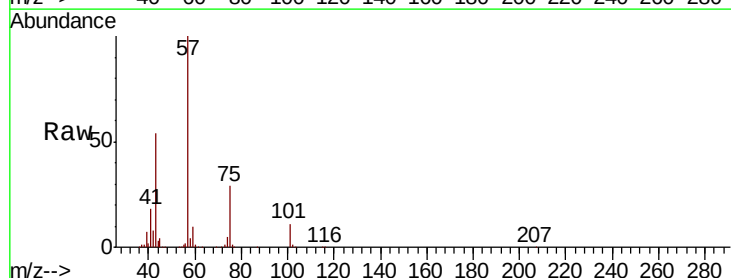
Tgt Ion: 75 Resp: 191154

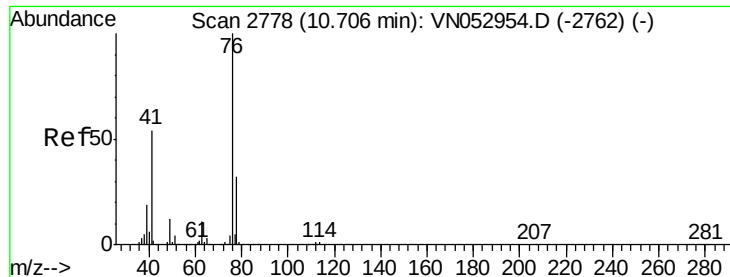
Ion Ratio Lower Upper

75 100

77 0.8 25.8 38.8#

39 25.4 34.8 52.2#





#57

1,3-Dichloropropane

Concen: 1.490 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN052986.D

Acq: 19 Dec 2018 3:19

Instrument :

MSVOA_N

ClientSampleId :

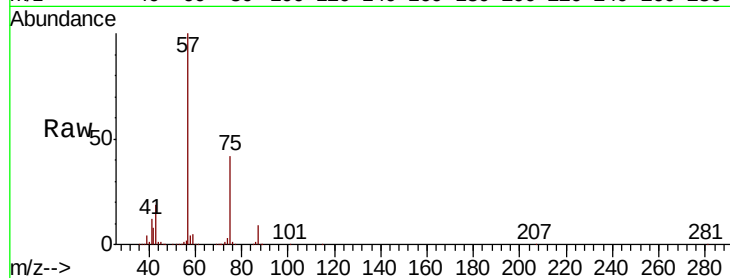
PB115784ZHE#01

Tot Ion: 76 Resp: 33561

Ion Ratio Lower Upper

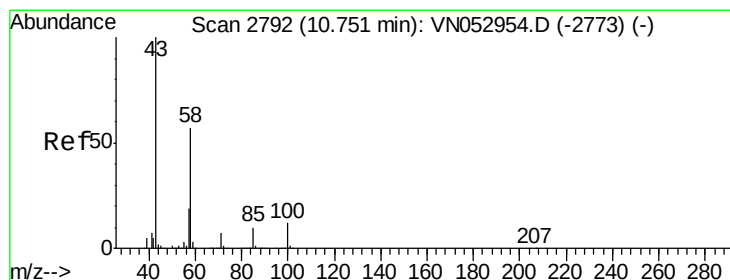
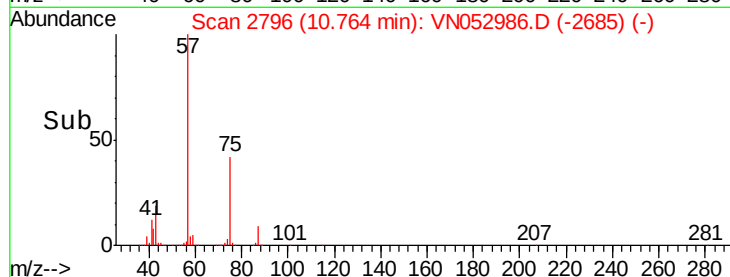
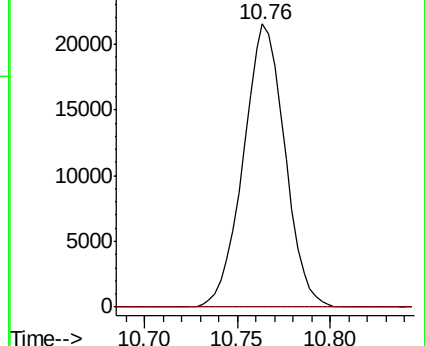
76 100

78 0.0 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: 59.961 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN052986.D

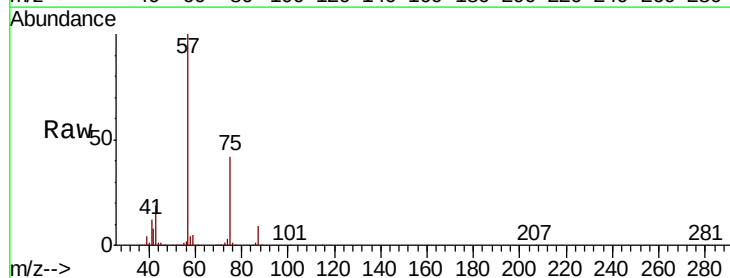
Acq: 19 Dec 2018 3:19

Tgt Ion: 43 Resp: 447793

Ion Ratio Lower Upper

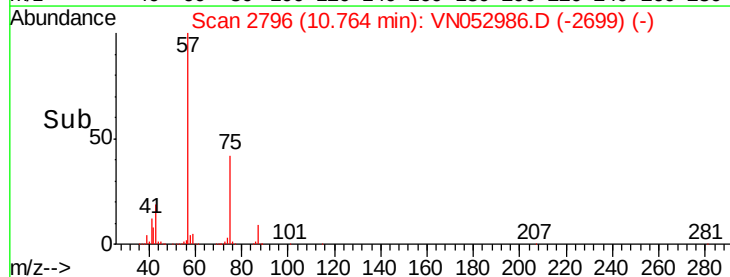
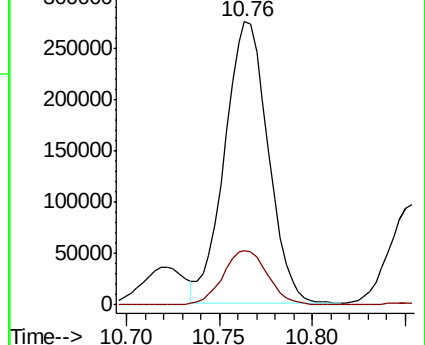
43 100

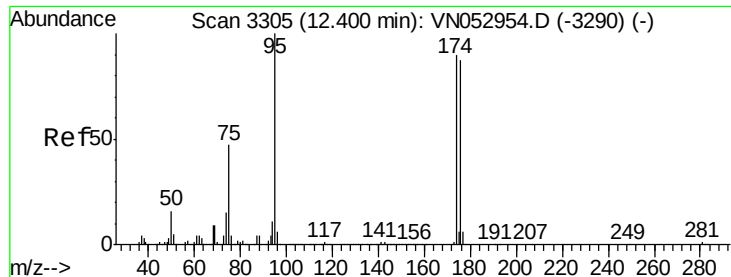
58 19.9 28.1 84.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN052986.D

Acq: 19 Dec 2018 3:19

Instrument :

MSVOA_N

ClientSampleId :

PB115784ZHE#01

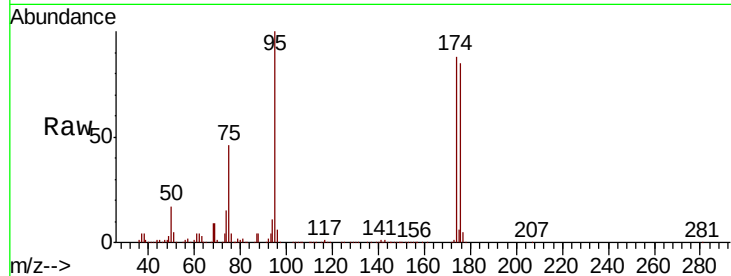
Tot Ion: 95 Resp: 892421

Ion Ratio Lower Upper

95 100

174 89.0 0.0 178.8

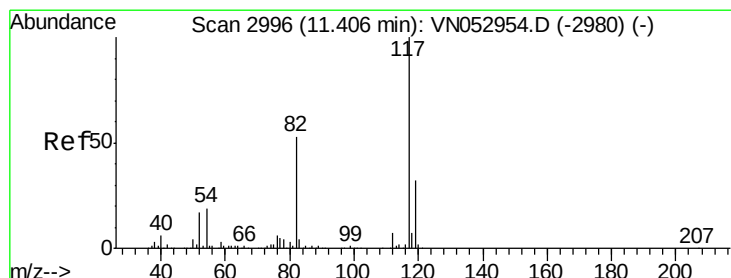
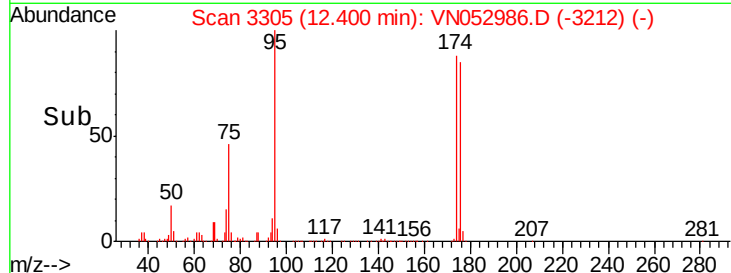
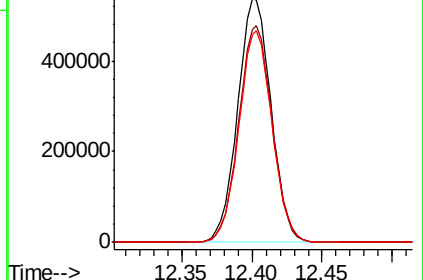
176 86.3 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VN052954.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN052954.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN052954.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN052986.D

Acq: 19 Dec 2018 3:19

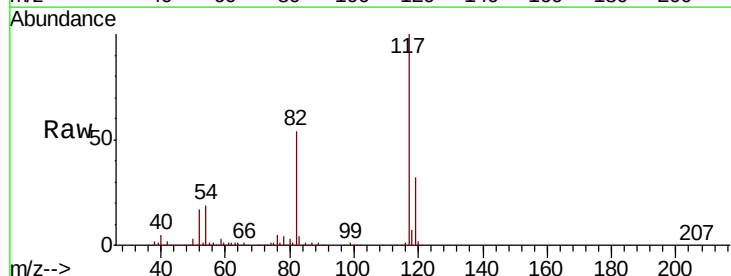
Tgt Ion: 117 Resp: 1924686

Ion Ratio Lower Upper

117 100

82 53.8 42.8 64.2

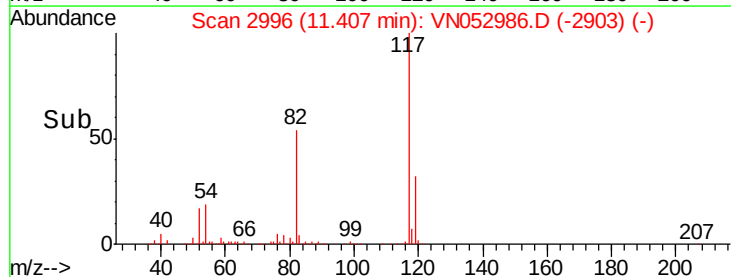
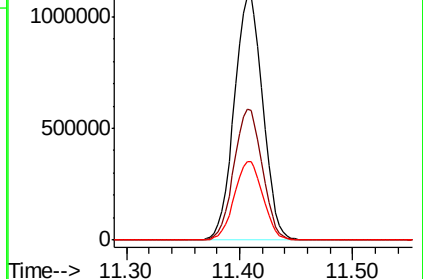
119 32.2 25.5 38.3

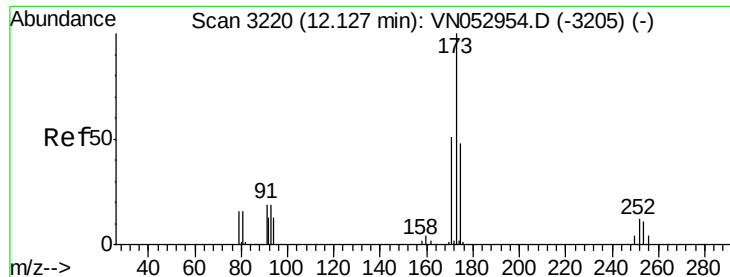


Abundance Ion 116.90 (116.60 to 117.60): VN052954.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN052954.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN052954.D (-2980) (-)





#71

Bromoform

Concen: 0.473 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN052986.D

Acq: 19 Dec 2018 3:19

Instrument :

MSVOA_N

ClientSampleId :

PB115784ZHE#01

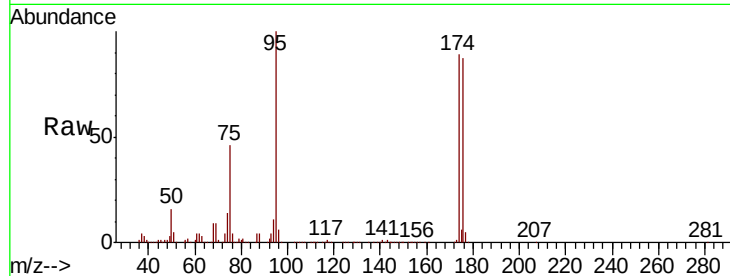
Tot Ion:173 Resp: 5067

Ion Ratio Lower Upper

173 100

175 966.7 24.3 72.9#

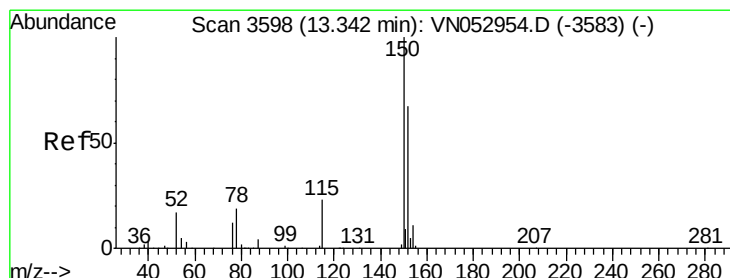
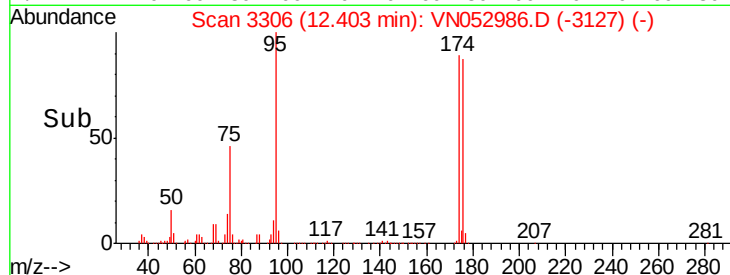
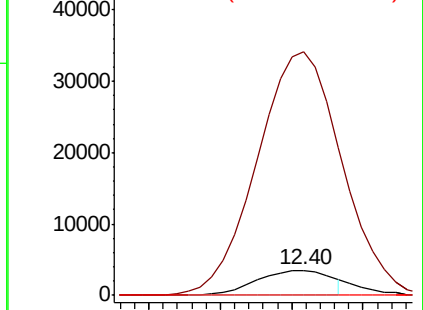
254 0.0 0.1 0.1#



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: VN052986.D

Acq: 19 Dec 2018 3:19

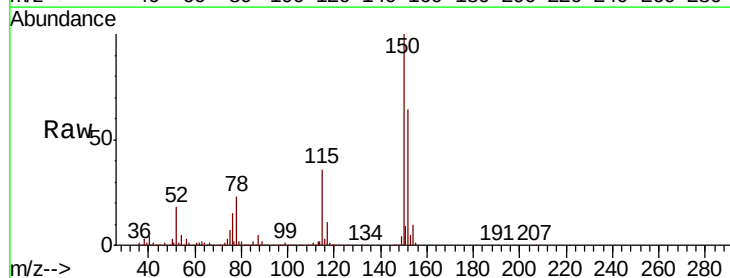
Tgt Ion:152 Resp: 821240

Ion Ratio Lower Upper

152 100

115 56.4 28.3 85.0

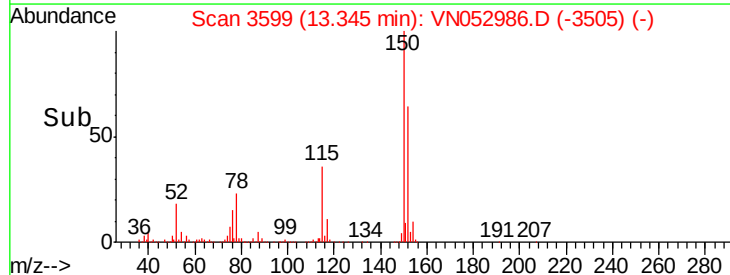
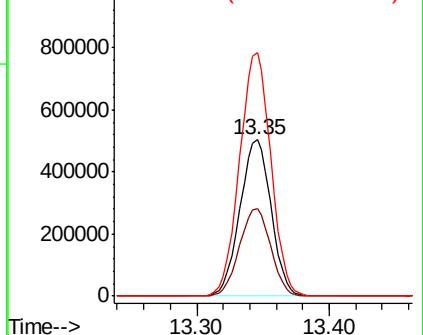
150 156.4 0.0 347.8

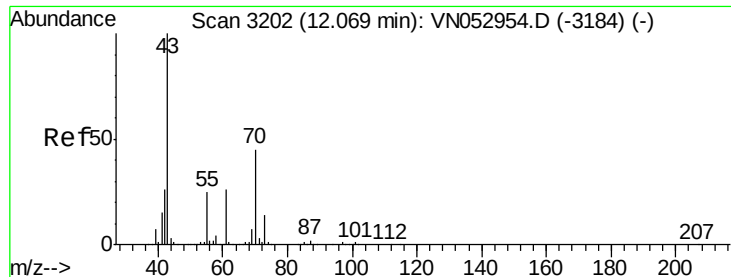


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 3.310 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN052986.D

Acq: 19 Dec 2018 3:19

Instrument :

MSVOA_N

ClientSampleId :

PB115784ZHE#01

Tot Ion: 43 Resp: 59047

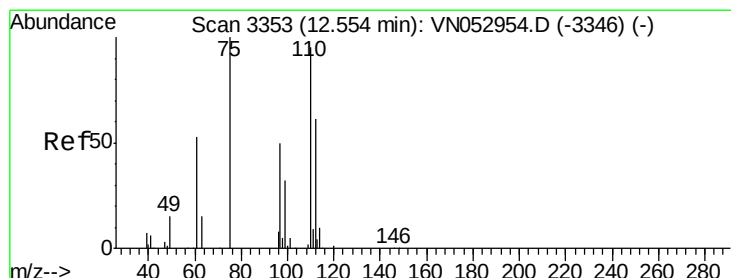
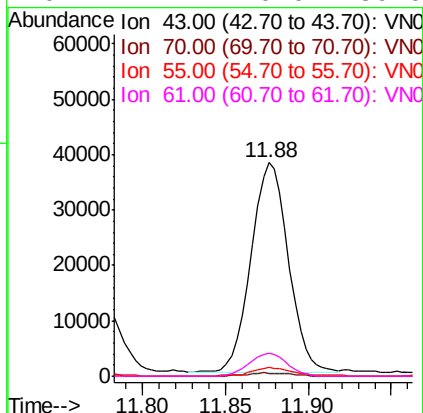
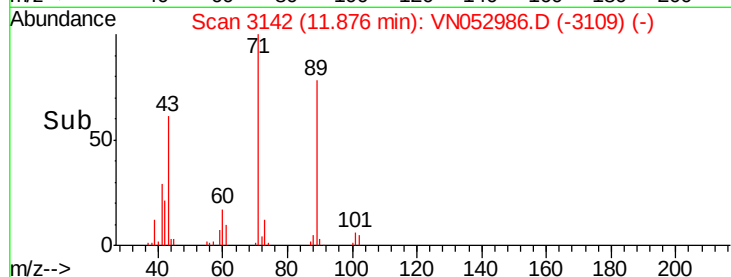
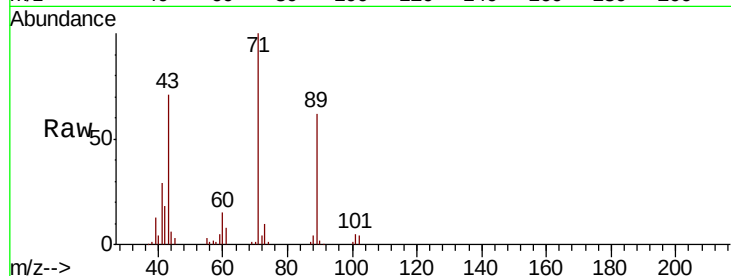
Ion Ratio Lower Upper

43 100

70 1.8 34.2 51.4#

55 4.6 20.3 30.5#

61 11.1 20.0 30.0#



#76

1,2,3-Trichloropropane

Concen: 29.698 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052986.D

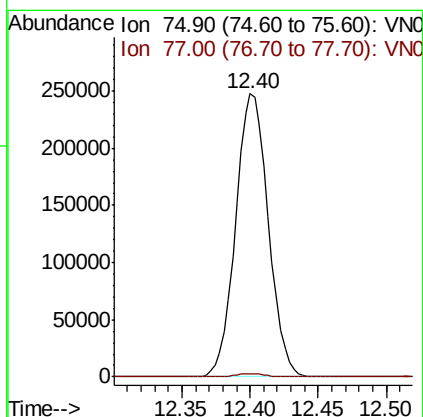
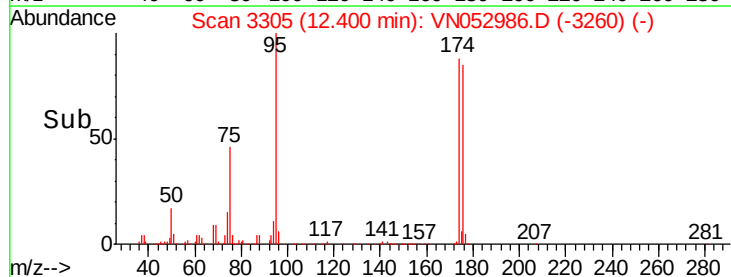
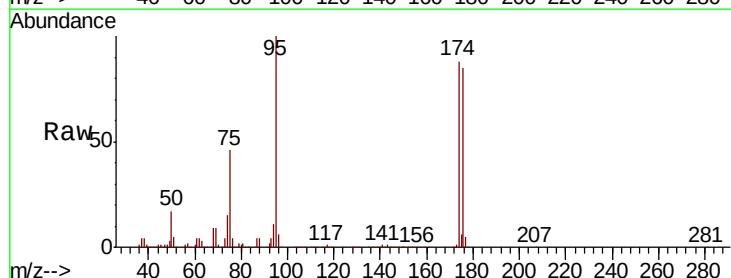
Acq: 19 Dec 2018 3:19

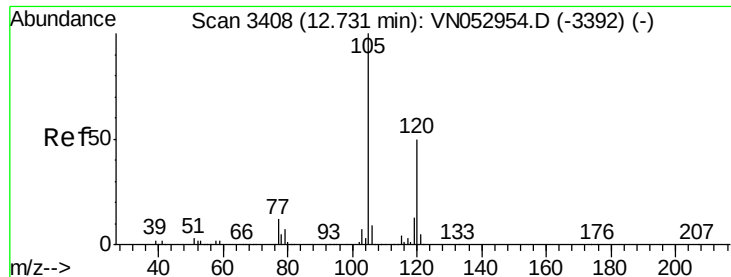
Tgt Ion: 75 Resp: 410564

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#

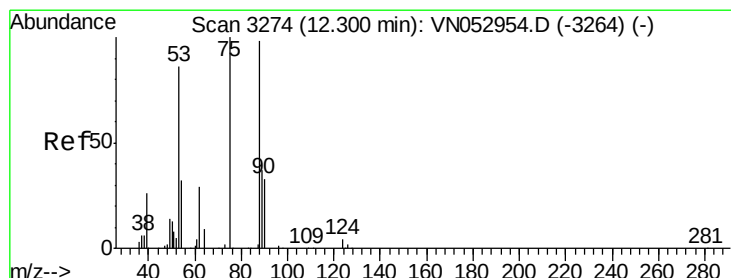
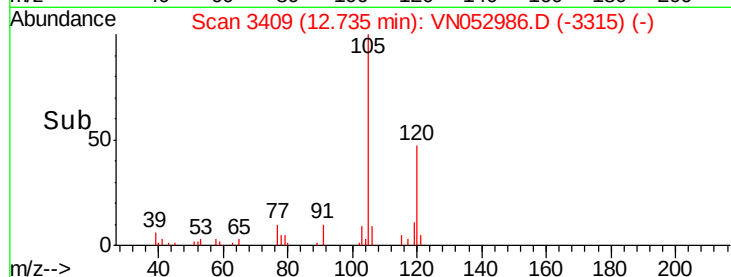
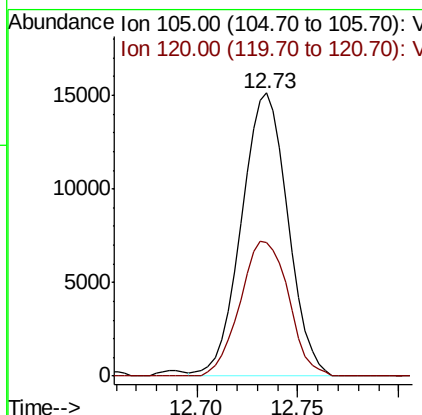
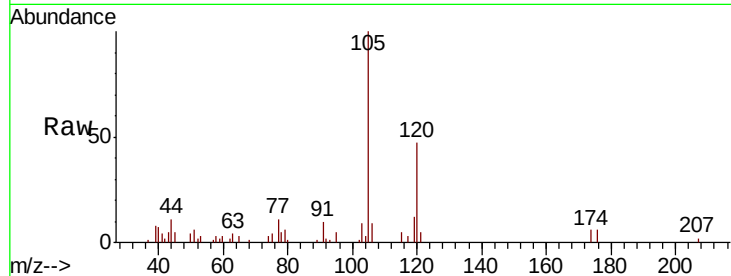




#80
 1,3,5-Trimethylbenzene
 Concen: 0.465 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN052986.D
 Acq: 19 Dec 2018 3:19

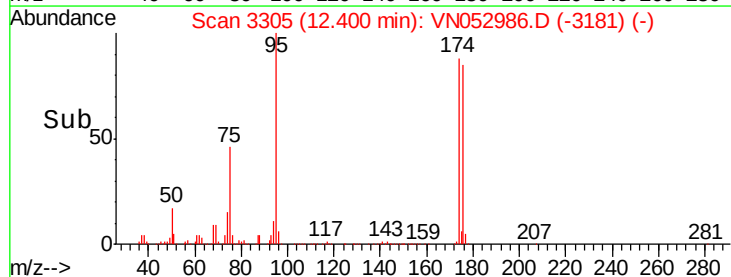
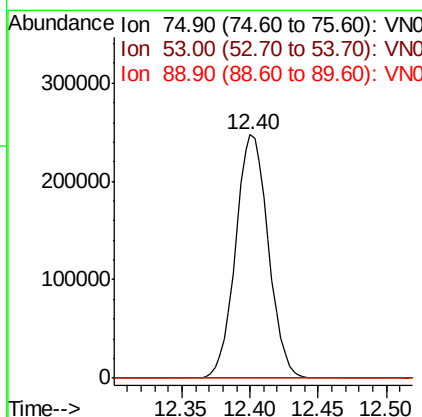
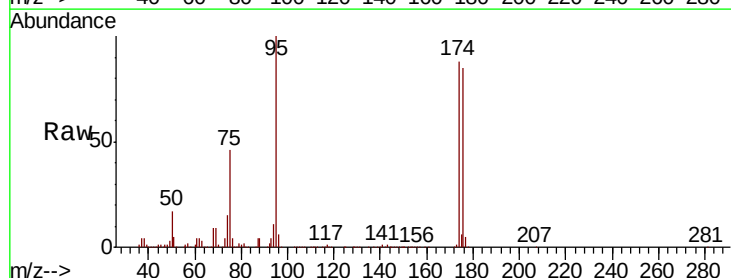
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115784ZHE#01

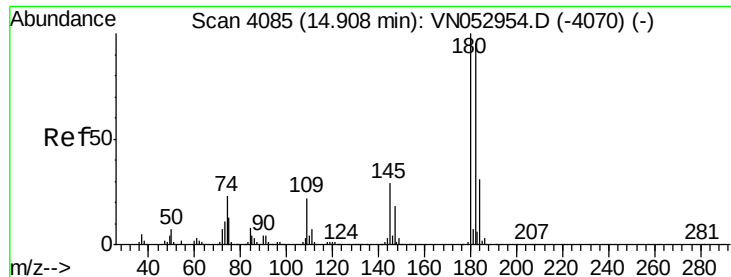
Tot Ion:105 Resp: 24367
 Ion Ratio Lower Upper
 105 100
 120 49.8 24.4 73.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 95.720 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN052986.D
 Acq: 19 Dec 2018 3:19

Tgt Ion: 75 Resp: 410564
 Ion Ratio Lower Upper
 75 100
 53 0.0 74.7 112.1#
 89 0.0 36.1 54.1#





#93

1,2,4-Trichlorobenzene

Concen: 0.701 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN052986.D

Acq: 19 Dec 2018 3:19

Instrument :

MSVOA_N

ClientSampleId :

PB115784ZHE#01

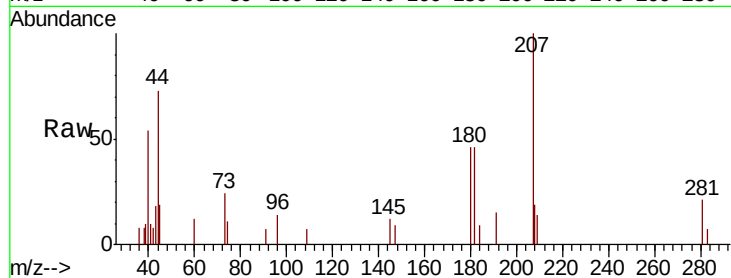
Tot Ion:180 Resp: 1565

Ion Ratio Lower Upper

180 100

182 93.1 47.8 143.3

145 15.3 14.2 42.6

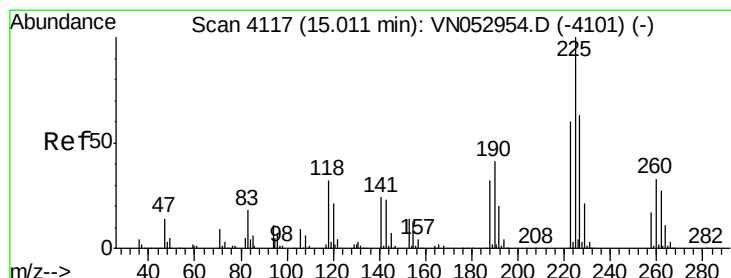
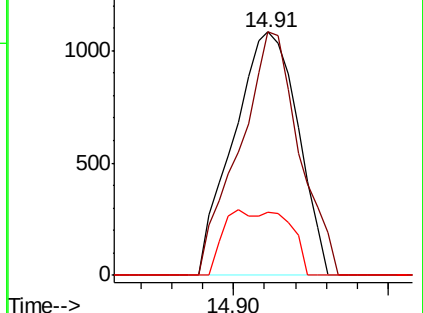
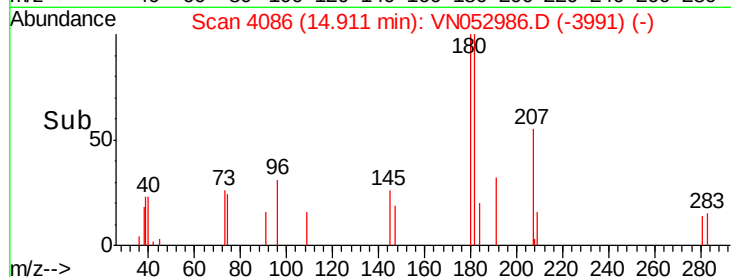


Abundance

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



#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

Lab File: VN052986.D

Acq: 19 Dec 2018 3:19

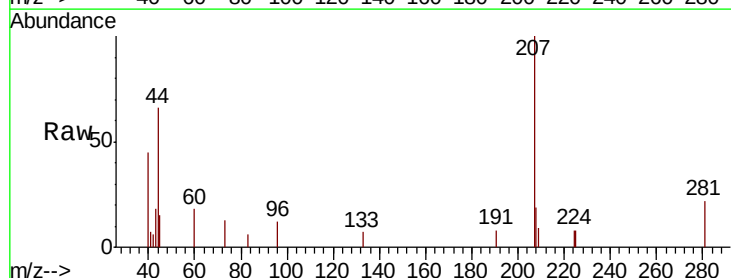
Tgt Ion:225 Resp: 293

Ion Ratio Lower Upper

225 100

223 0.0 31.5 94.5#

227 0.0 31.9 95.7#

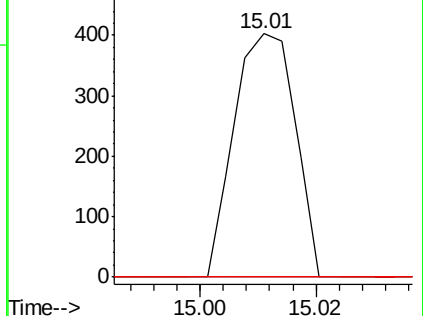
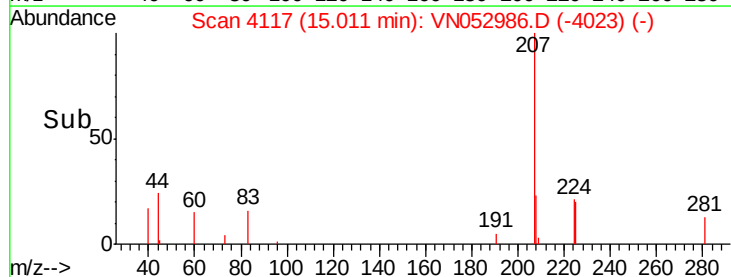


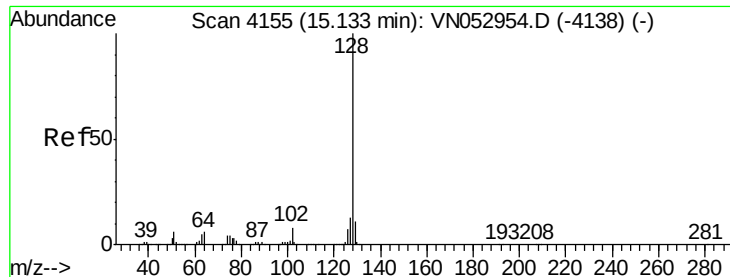
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 1.290 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN052986.D

Acq: 19 Dec 2018 3:19

Instrument :

MSVOA_N

ClientSampleId :

PB115784ZHE#01

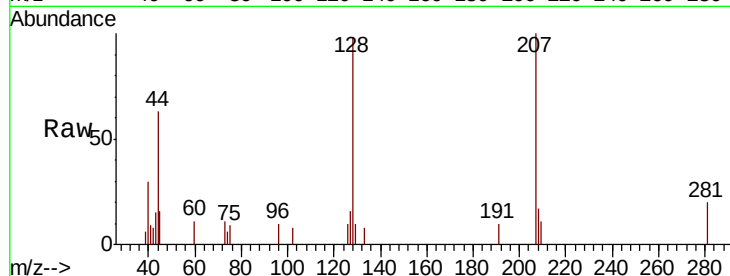
Tot Ion:128 Resp: 4731

Ion Ratio Lower Upper

128 100

127 12.5 10.2 15.4

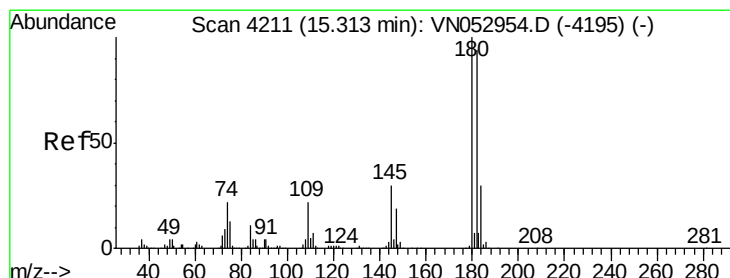
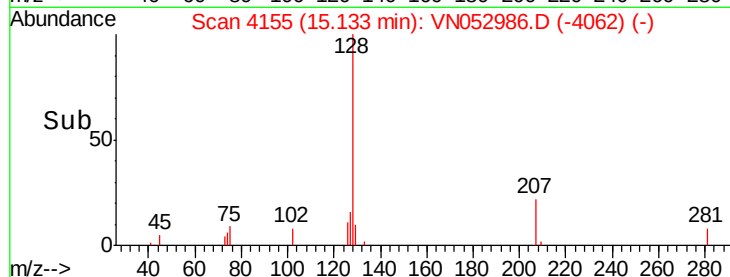
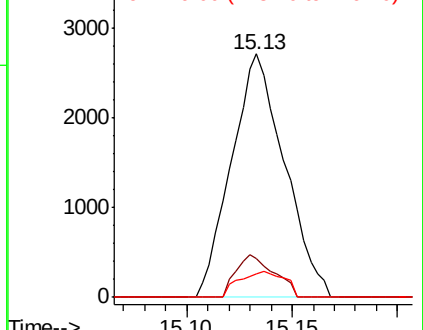
129 9.1 8.6 13.0



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: 0.624 ug/l

RT: 15.32 min Scan# 4213

Delta R.T. 0.01 min

Lab File: VN052986.D

Acq: 19 Dec 2018 3:19

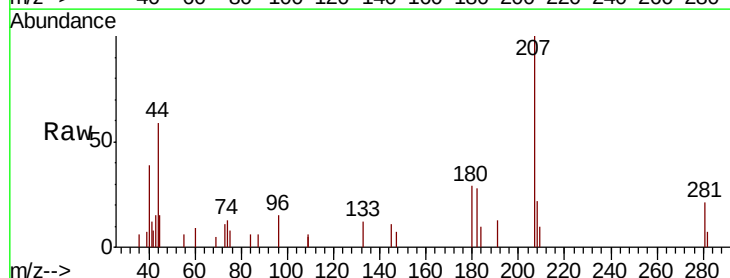
Tgt Ion:180 Resp: 1556

Ion Ratio Lower Upper

180 100

182 87.1 47.9 143.7

145 29.0 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

