

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092718\
 Data File : VN051588.D
 Acq On : 27 Sep 2018 17:40
 Operator : MD\SY
 Sample : PB113263TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113263TB

Quant Time: Sep 28 01:52:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092318W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 24 06:41:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	629275	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1016810	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	874995	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	296829	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	457371	58.02	ug/l	0.00
Spiked Amount			Recovery	=	116.04%	
35) Dibromofluoromethane	7.59	113	397446	48.88	ug/l	0.00
Spiked Amount			Recovery	=	97.76%	
50) Toluene-d8	10.09	98	1435128	46.87	ug/l	0.00
Spiked Amount			Recovery	=	93.74%	
62) 4-Bromofluorobenzene	12.40	95	384606	38.83	ug/l	0.00
Spiked Amount			Recovery	=	77.66%	

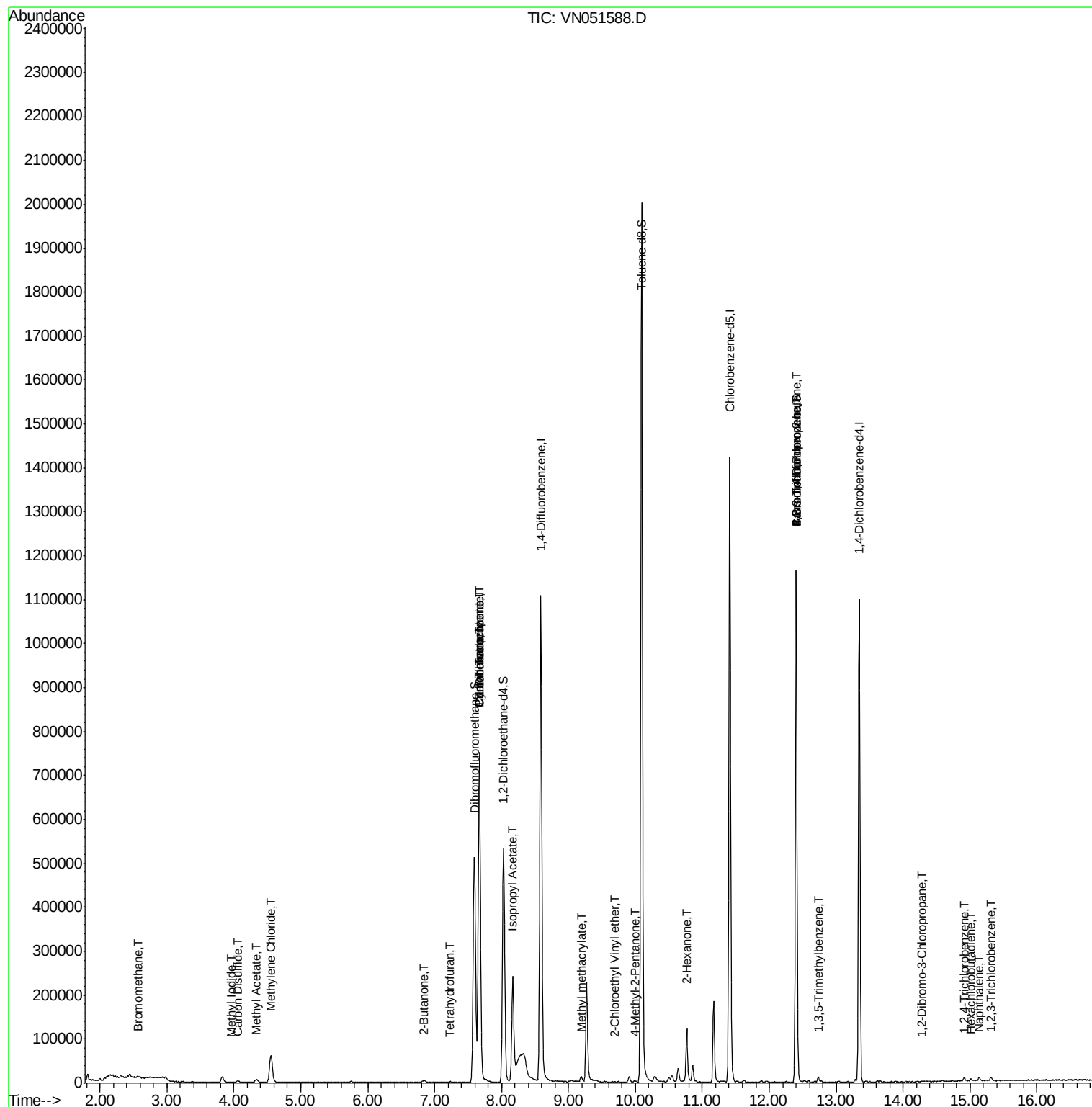
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	1750	0.342	ug/l	83
10) Methyl Iodide	3.96	142	469	0.323	ug/l #	74
16) Acetone	3.82	43	22143	Below Cal		98
17) Carbon Disulfide	4.05	76	5552	0.270	ug/l #	94
18) Methyl Acetate	4.34	43	12656	2.108	ug/l #	71
20) Methylene Chloride	4.55	84	45571	5.842	ug/l	97
25) 2-Butanone	6.85	43	4650	1.723	ug/l #	86
29) Tetrahydrofuran	7.22	42	996	0.583	ug/l	97
31) Cyclohexane	7.67	56	12054	0.971	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	45983	3.905	ug/l #	49
38) Carbon Tetrachloride	7.67	117	57873	4.699	ug/l #	16
43) Isopropyl Acetate	8.17	43	292708	23.910	ug/l	96
48) Methyl methacrylate	9.18	41	6956	1.140	ug/l #	22
51) 4-Methyl-2-Pentanone	9.98	43	2790	0.414	ug/l	90
58) 2-Chloroethyl Vinyl ether	9.70	63	154	20.397	ug/l #	48
59) 2-Hexanone	10.77	43	18767	4.300	ug/l #	56
71) Bromoform	12.40	173	4666	0.804	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	190184	38.596	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	5586	0.274	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	190184	118.680	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.28	75	276	0.331	ug/l #	9
93) 1,2,4-Trichlorobenzene	14.91	180	2563	6.375	ug/l	92
94) Hexachlorobutadiene	15.01	225	1060	0.263	ug/l	80
95) Naphthalene	15.13	128	6777	8.560	ug/l	98
96) 1,2,3-Trichlorobenzene	15.32	180	2873	0.562	ug/l	76

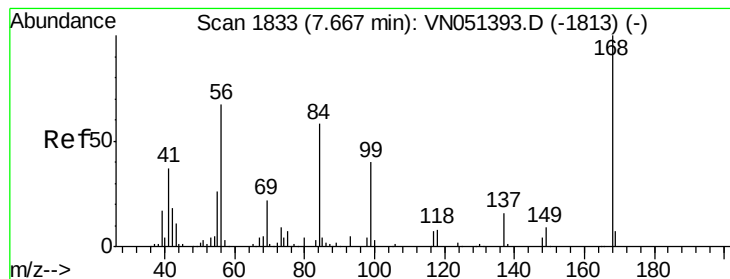
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092318W.M
Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN051588.D

Acq: 27 Sep 2018 17:40

Instrument :

MSVOA_N

ClientSampleId :

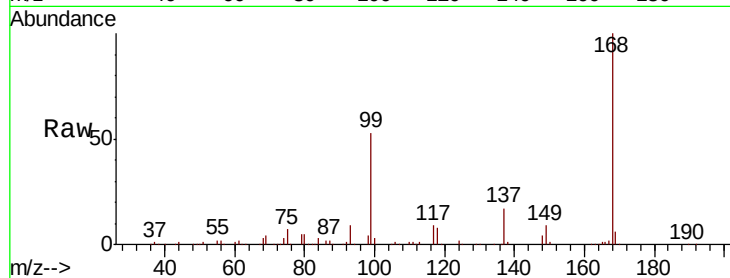
PB113263TB

Tot Ion:168 Resp: 629275

Ion Ratio Lower Upper

168 100

99 52.7 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN051393.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN051393.D (-1813) (-)

7.67

250000

200000

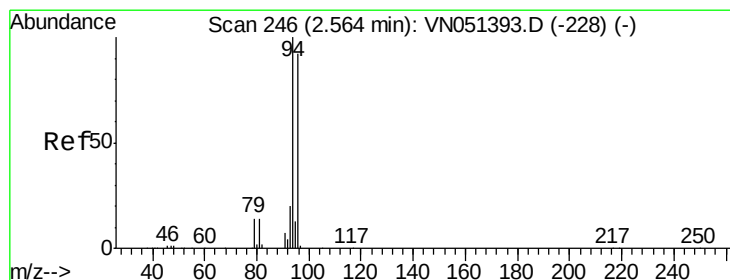
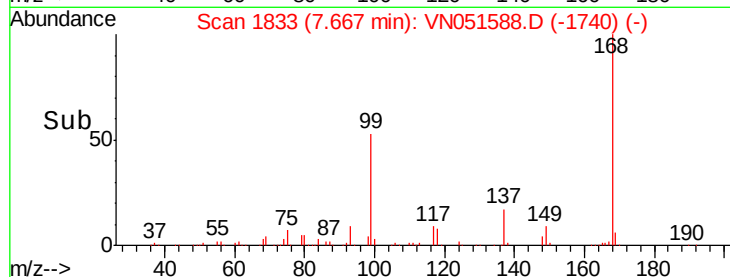
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.342 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.00 min

Lab File: VN051588.D

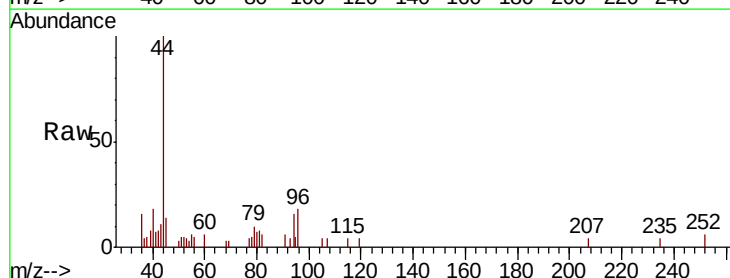
Acq: 27 Sep 2018 17:40

Tgt Ion: 94 Resp: 1750

Ion Ratio Lower Upper

94 100

96 107.9 73.6 110.4



Abundance Ion 93.90 (93.60 to 94.60): VN051393.D (-228) (-)

Ion 95.90 (95.60 to 96.60): VN051393.D (-228) (-)

2.57

1000

800

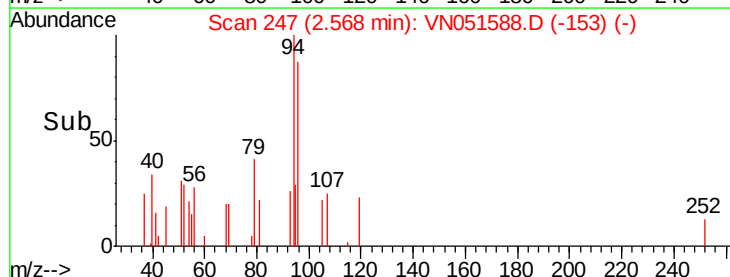
600

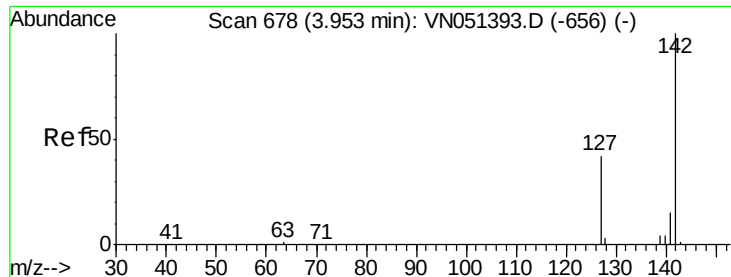
400

200

0

Time-->

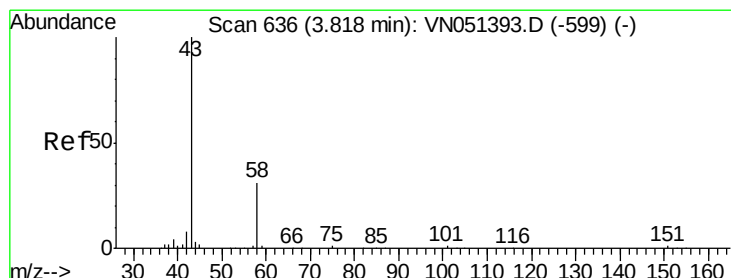
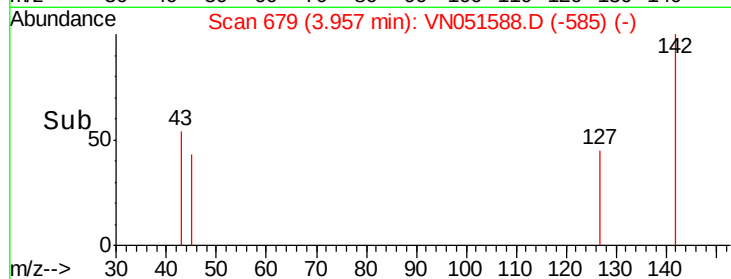
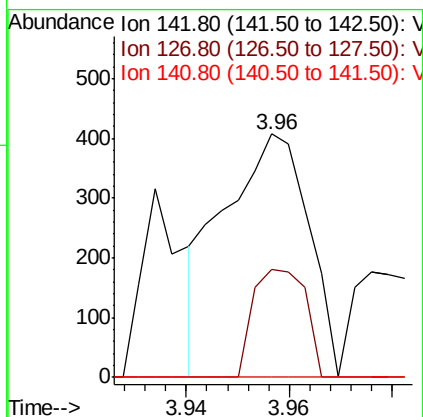
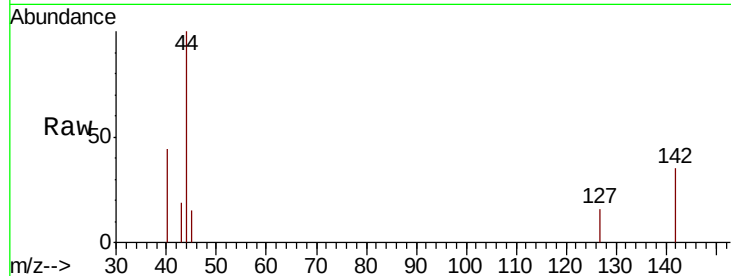




#10
Methvl Iodide
Concen: 0.323 ug/l
RT: 3.96 min Scan# 679
Delta R.T. 0.00 min
Lab File: VN051588.D
Acq: 27 Sep 2018 17:40

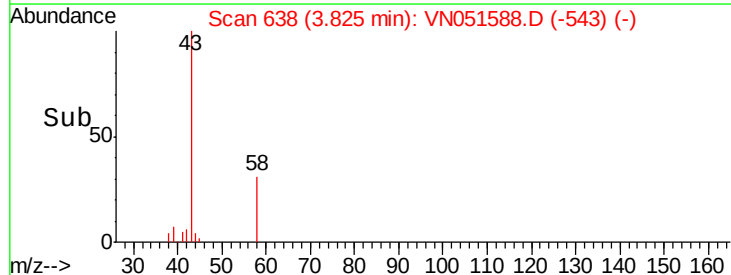
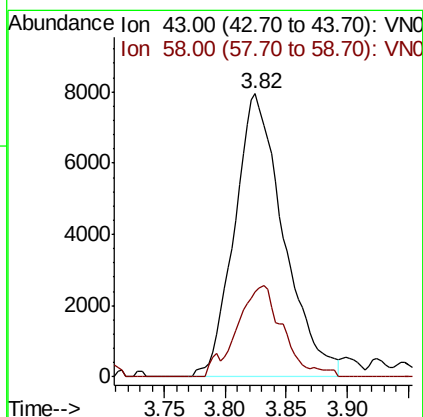
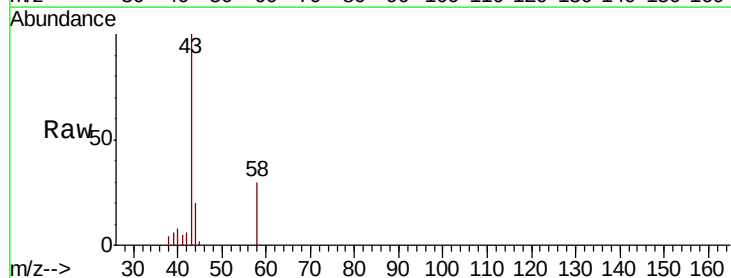
Instrument :
MSVOA_N
ClientSampleId :
PB113263TB

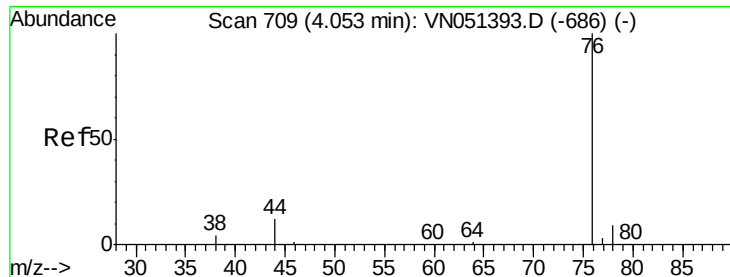
Tot Ion:142 Resp: 469
Ion Ratio Lower Upper
142 100
127 27.1 33.2 49.8#
141 0.0 11.5 17.3#



#16
Acetone
Concen: Below Cal
RT: 3.82 min Scan# 638
Delta R.T. 0.01 min
Lab File: VN051588.D
Acq: 27 Sep 2018 17:40

Tgt Ion: 43 Resp: 22143
Ion Ratio Lower Upper
43 100
58 30.0 25.0 37.4





#17

Carbon Disulfide

Concen: 0.270 ug/l

RT: 4.05 min Scan# 708

Delta R.T. -0.00 min

Lab File: VN051588.D

Acq: 27 Sep 2018 17:40

Instrument :

MSVOA_N

ClientSampleId :

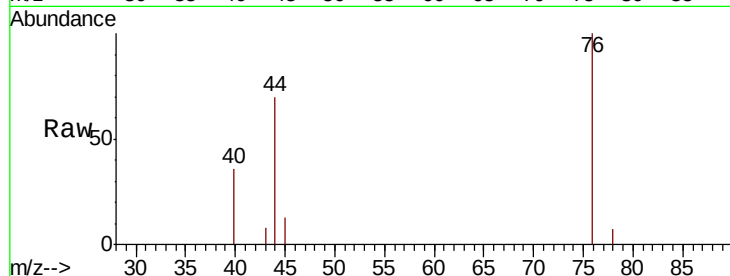
PB113263TB

Tot Ion: 76 Resp: 5552

Ion Ratio Lower Upper

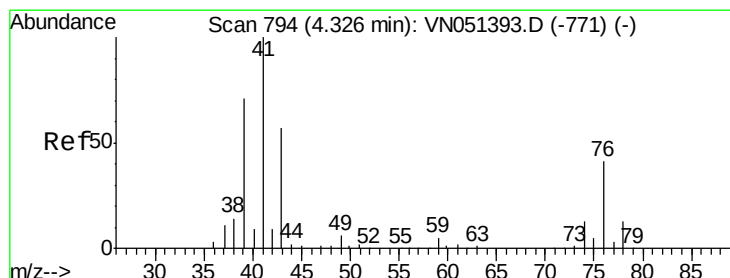
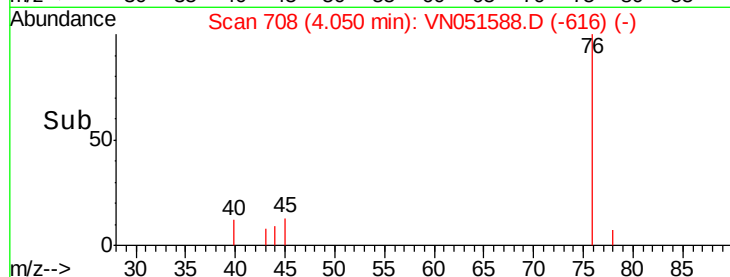
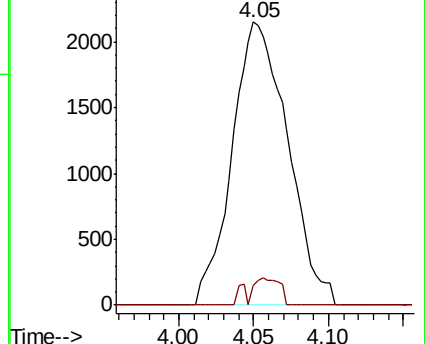
76 100

78 7.1 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 2.108 ug/l

RT: 4.34 min Scan# 798

Delta R.T. 0.01 min

Lab File: VN051588.D

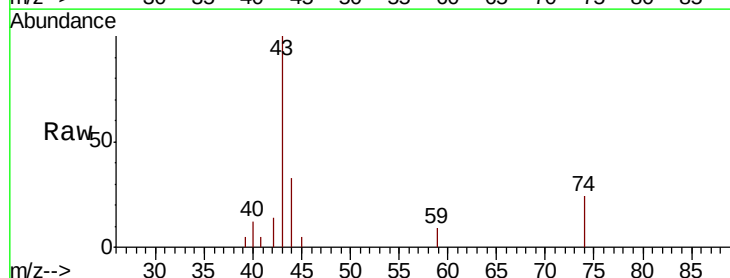
Acq: 27 Sep 2018 17:40

Tgt Ion: 43 Resp: 12656

Ion Ratio Lower Upper

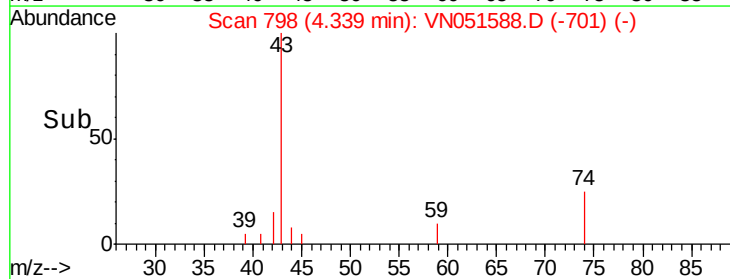
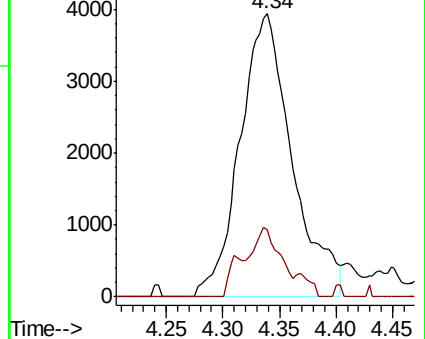
43 100

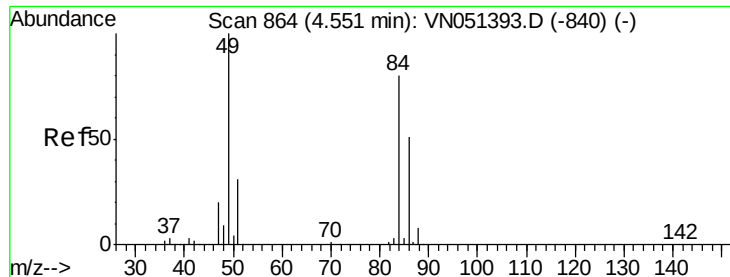
74 9.1 18.8 28.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

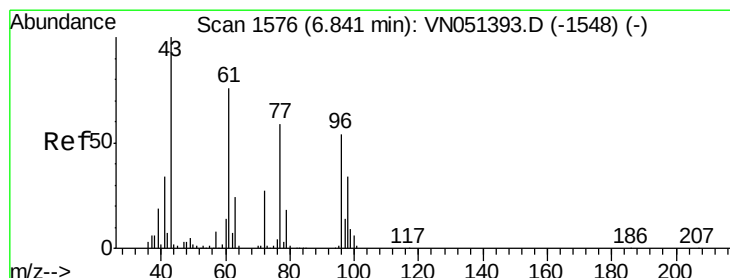
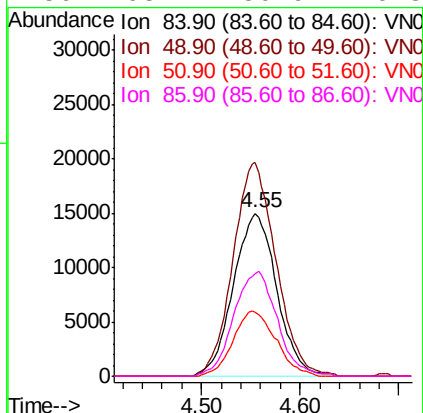
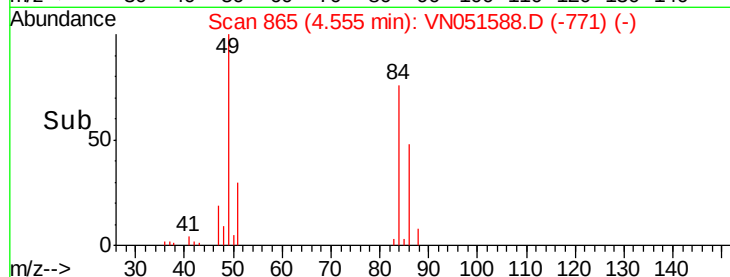
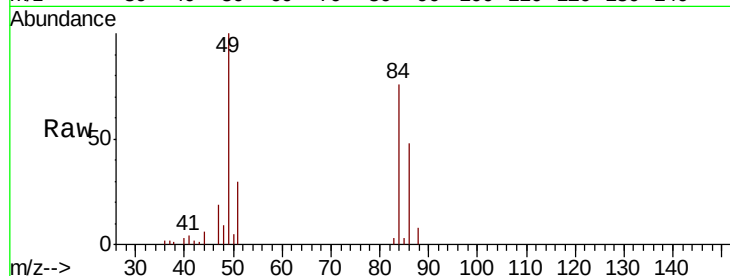




#20
Methylene Chloride
Concen: 5.842 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051588.D
Acq: 27 Sep 2018 17:40

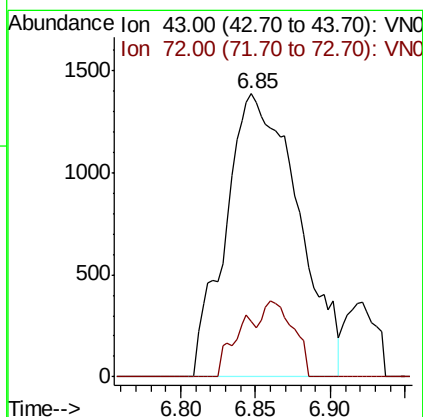
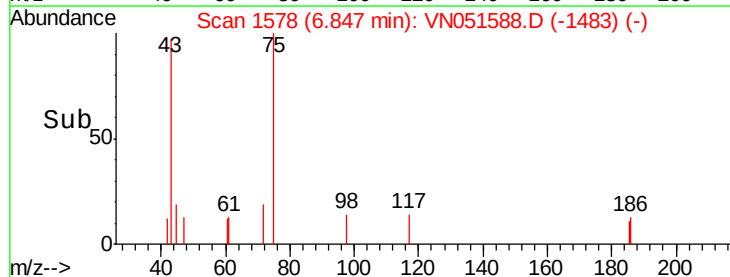
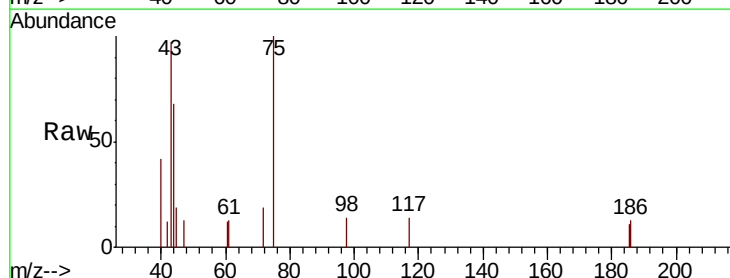
Instrument :
MSVOA_N
ClientSampled :
PB113263TB

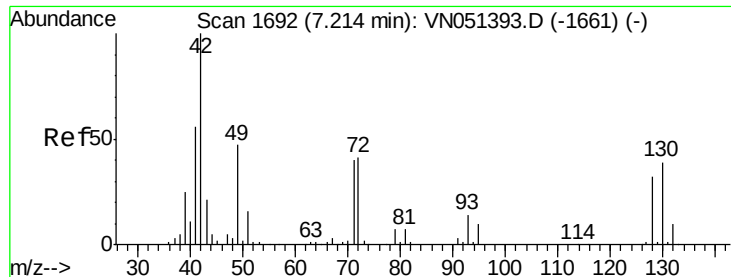
Tot Ion: 84 Resp: 45571
Ion Ratio Lower Upper
84 100
49 131.0 99.9 149.9
51 39.1 31.4 47.2
86 63.2 50.9 76.3



#25
2-Butanone
Concen: 1.723 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN051588.D
Acq: 27 Sep 2018 17:40

Tgt Ion: 43 Resp: 4650
Ion Ratio Lower Upper
43 100
72 19.7 21.8 32.6#





#29

Tetrahydrofuran

Concen: 0.583 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN051588.D

Acq: 27 Sep 2018 17:40

Instrument :

MSVOA_N

ClientSampleId :

PB113263TB

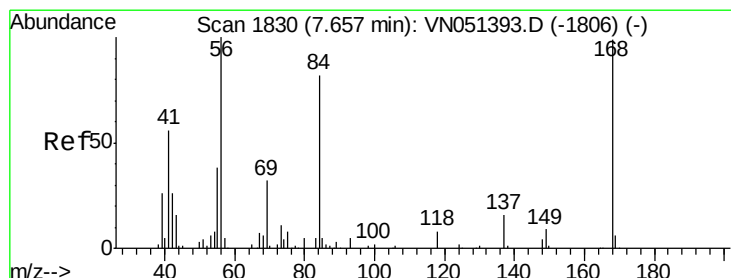
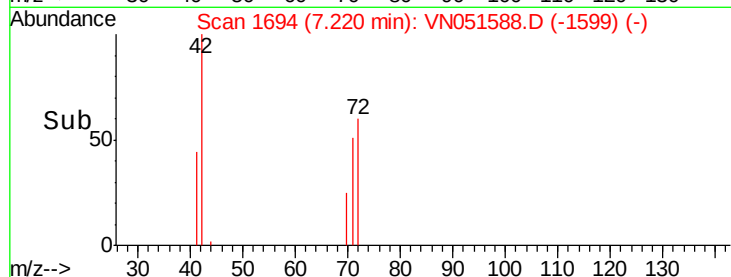
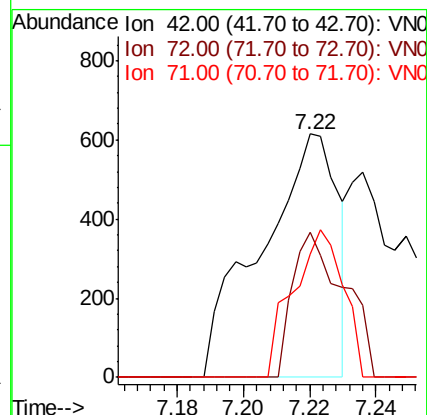
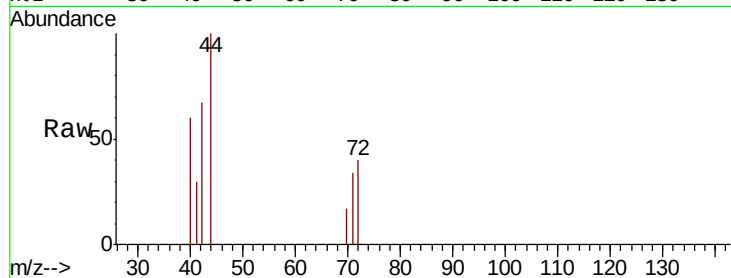
Tot Ion: 42 Resp: 996

Ion Ratio Lower Upper

42 100

72 39.9 34.3 51.5

71 39.8 32.2 48.4



#31

Cyclohexane

Concen: 0.971 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN051588.D

Acq: 27 Sep 2018 17:40

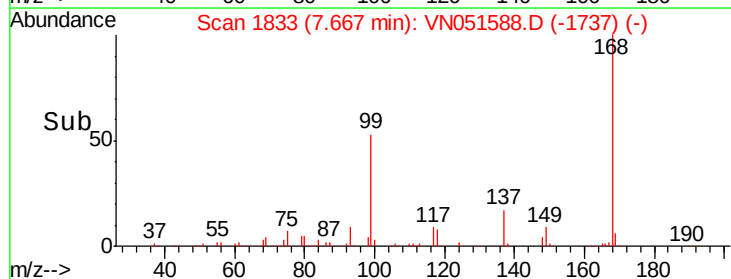
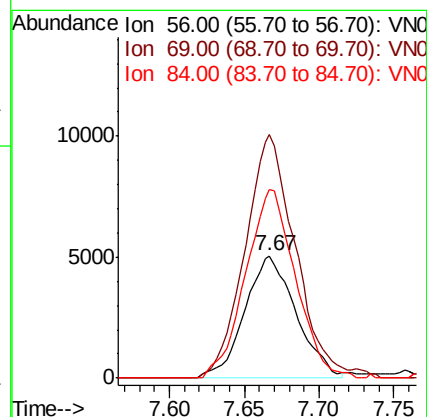
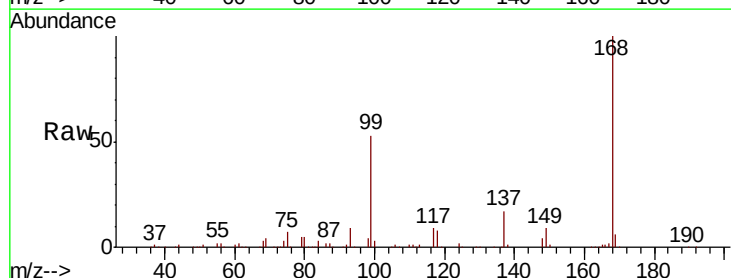
Tgt Ion: 56 Resp: 12054

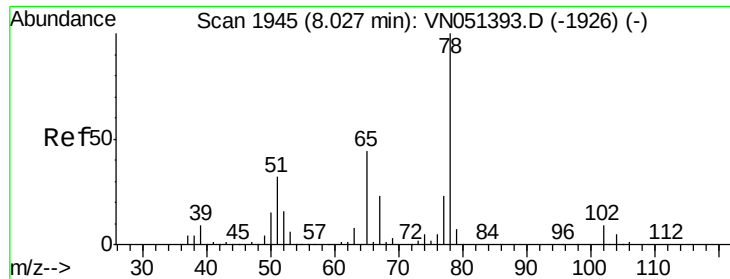
Ion Ratio Lower Upper

56 100

69 198.7 25.8 38.6#

84 154.3 66.0 99.0#

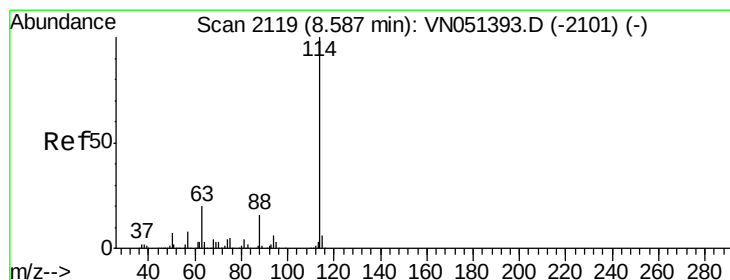
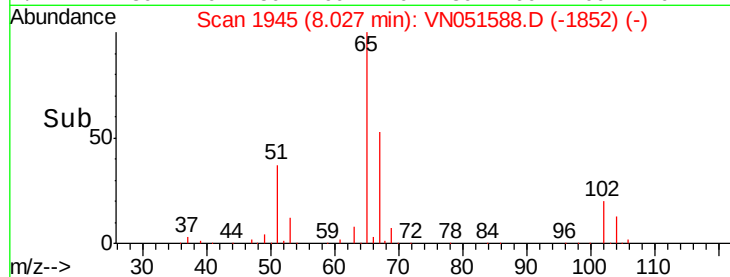
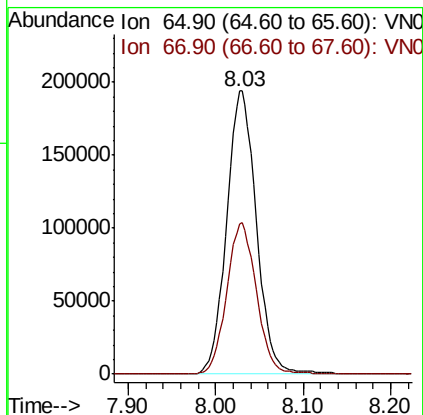
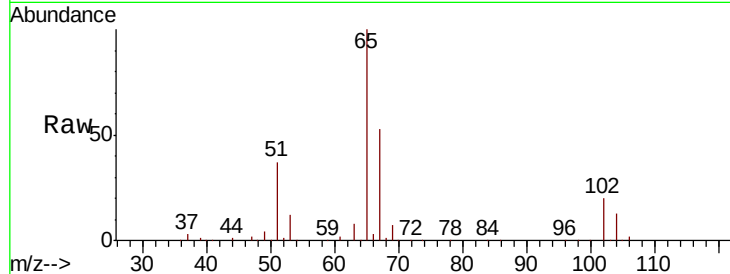




#33
 1,2-Dichloroethane-d4
 Concen: 58.021 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN051588.D
 Acq: 27 Sep 2018 17:40

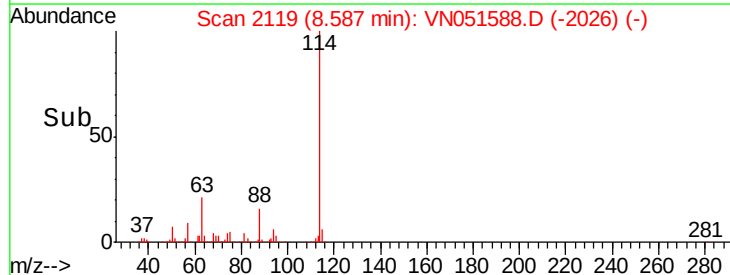
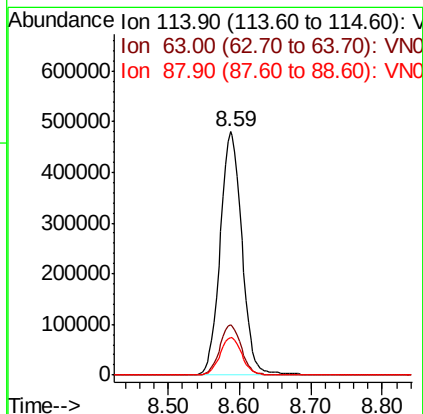
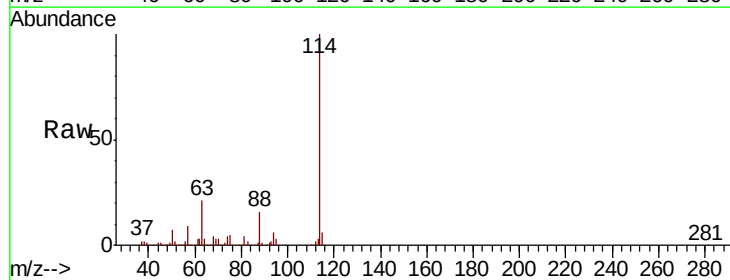
Instrument :
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 PB113263TB

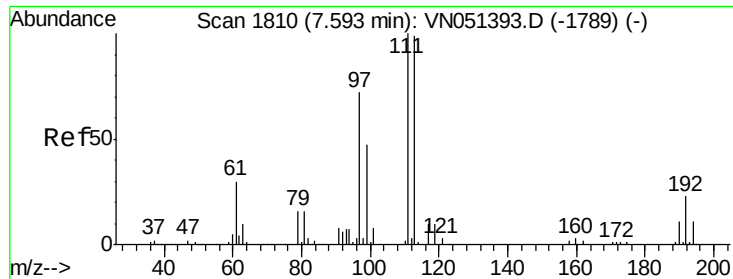
Tot Ion: 65 Resp: 457371
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051588.D
 Acq: 27 Sep 2018 17:40

Tgt Ion: 114 Resp: 1016810
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 40.2
 88 15.6 0.0 31.4

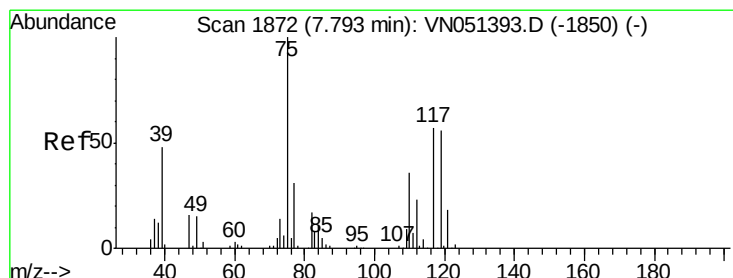
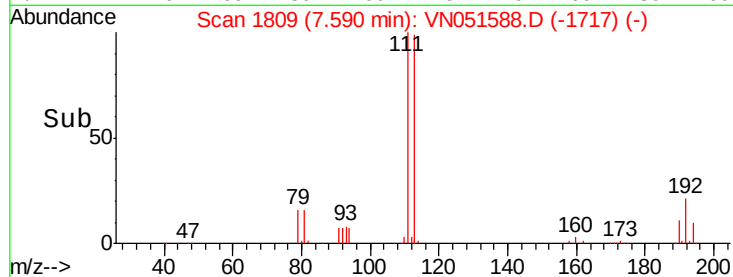
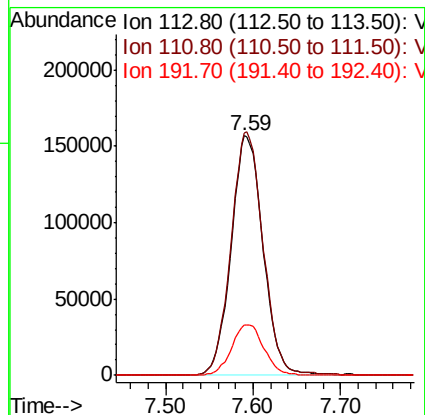
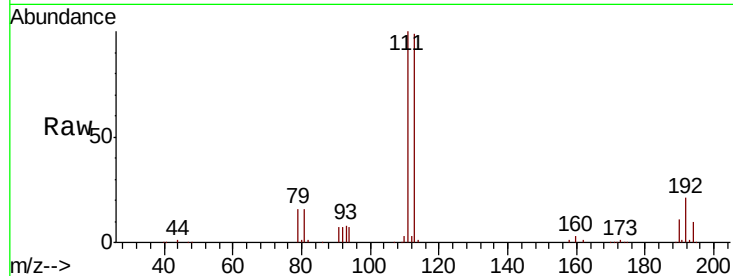




#35
 Dibromofluoromethane
 Concen: 48.881 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN051588.D
 Acq: 27 Sep 2018 17:40

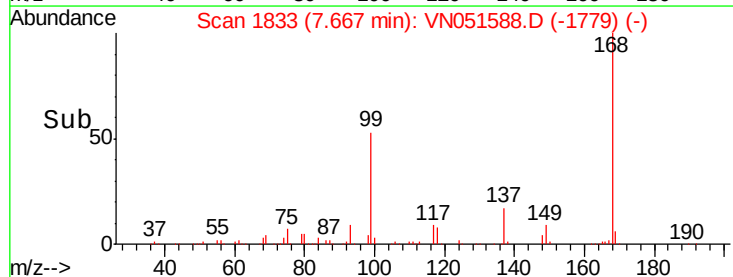
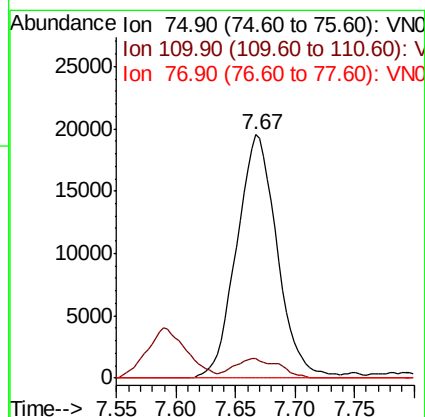
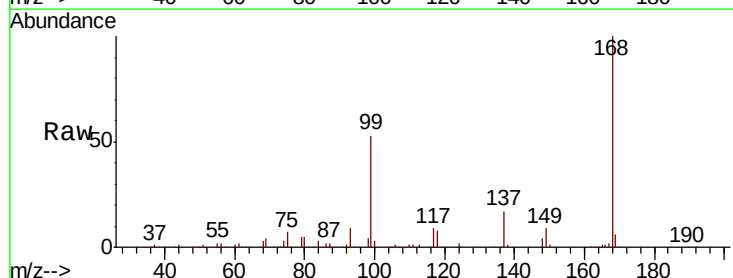
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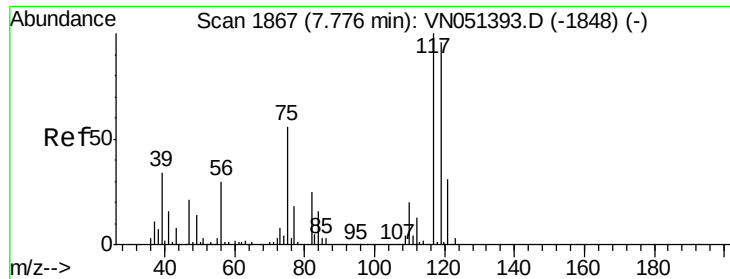
Tot Ion:113 Resp: 397446
 Ion Ratio Lower Upper
 113 100
 111 102.0 82.6 123.8
 192 21.4 18.0 27.0



#36
 1,1-Dichloropropene
 Concen: 3.905 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051588.D
 Acq: 27 Sep 2018 17:40

Tgt Ion: 75 Resp: 45983
 Ion Ratio Lower Upper
 75 100
 110 9.0 18.1 54.3#
 77 0.0 25.6 38.4#

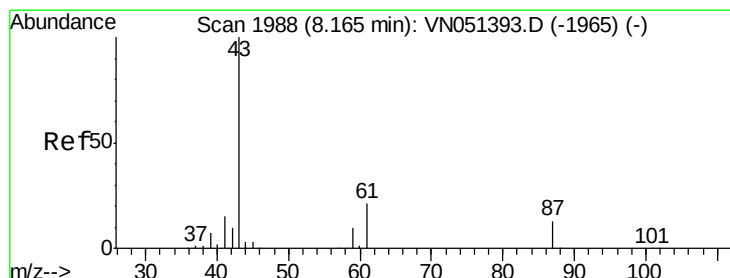
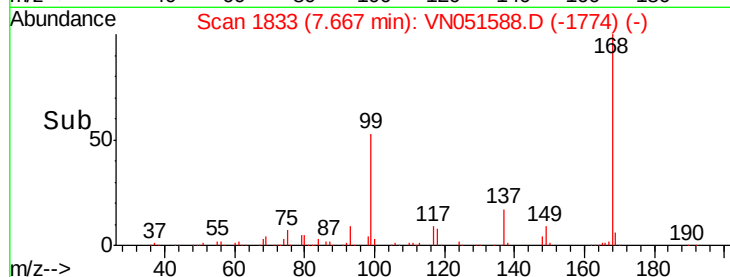
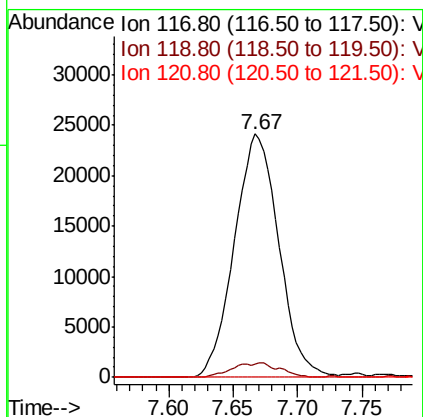
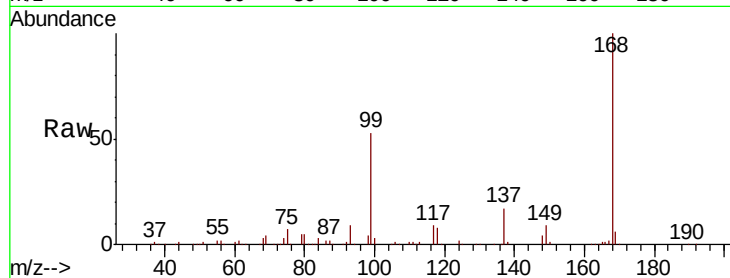




#38
Carbon Tetrachloride
Concen: 4.699 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN051588.D
Acq: 27 Sep 2018 17:40

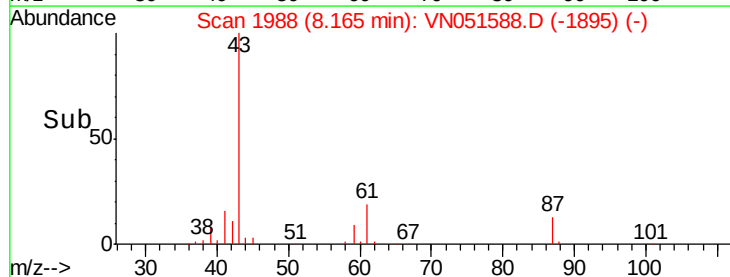
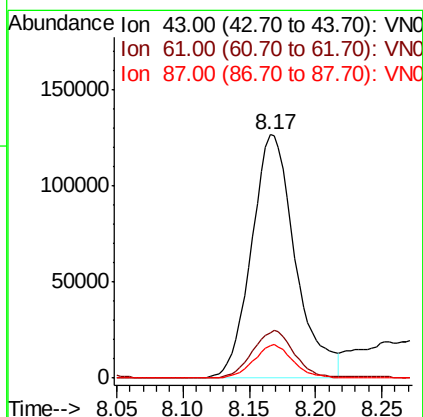
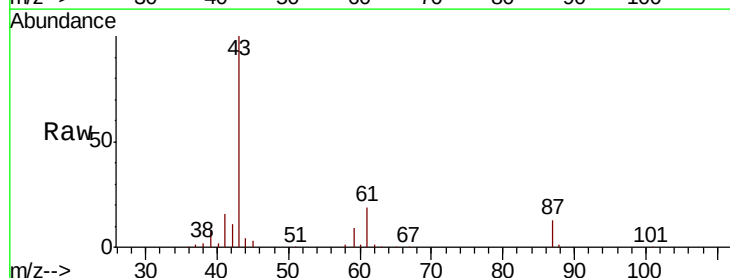
Instrument :
MSVOA_N
ClientSampleId :
PB113263TB

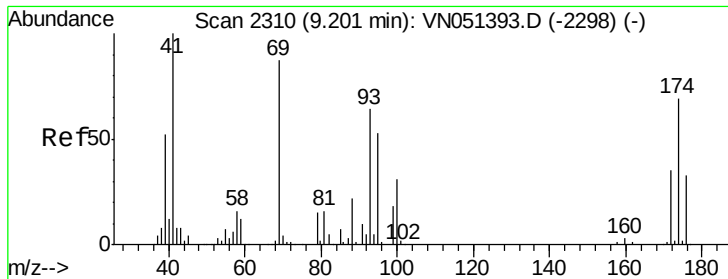
Tot Ion:117 Resp: 57873
Ion Ratio Lower Upper
117 100
119 5.3 76.9 115.3#
121 0.0 24.6 37.0#



#43
Isopropyl Acetate
Concen: 23.910 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VN051588.D
Acq: 27 Sep 2018 17:40

Tgt Ion: 43 Resp: 292708
Ion Ratio Lower Upper
43 100
61 18.6 16.8 25.2
87 12.3 10.7 16.1

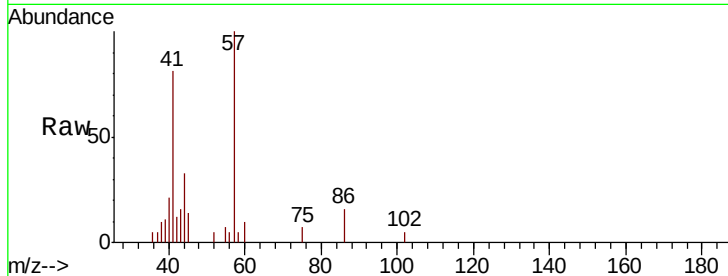




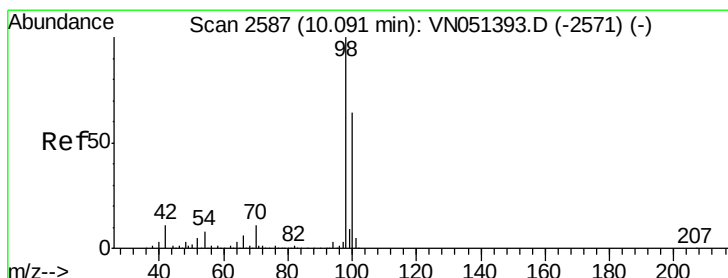
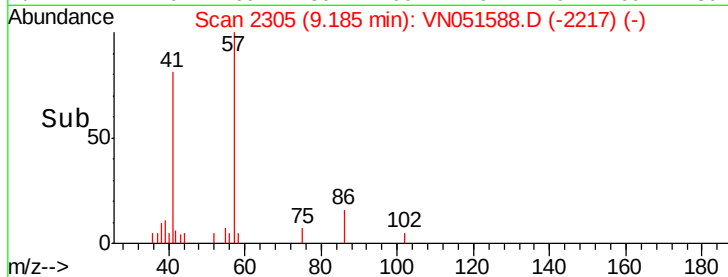
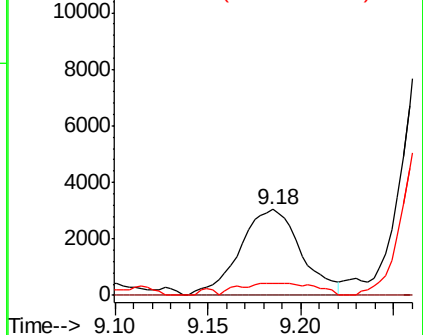
#48
Methvl methacrylate
Concen: 1.140 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.02 min
Lab File: VN051588.D
Acq: 27 Sep 2018 17:40

Instrument :
MSVOA_N
ClientSampleId :
PB113263TB

Tot Ion: 41 Resp: 6956
Ion Ratio Lower Upper
41 100
69 0.0 70.4 105.6#
39 17.5 43.8 65.8#

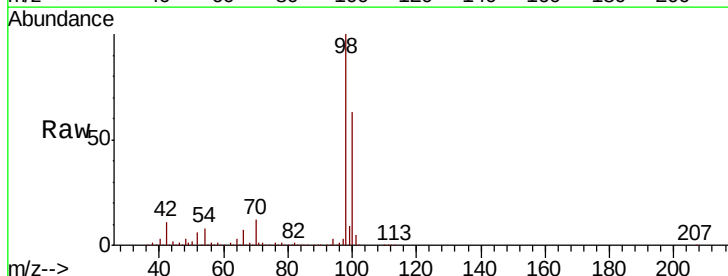


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

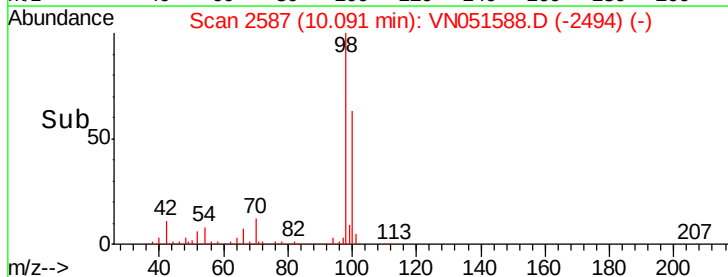
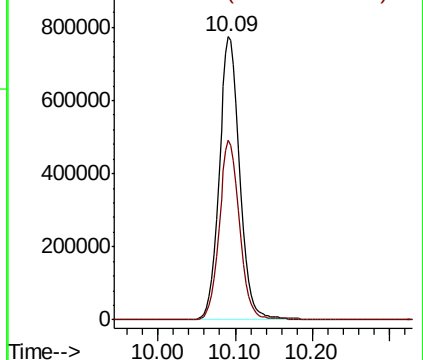


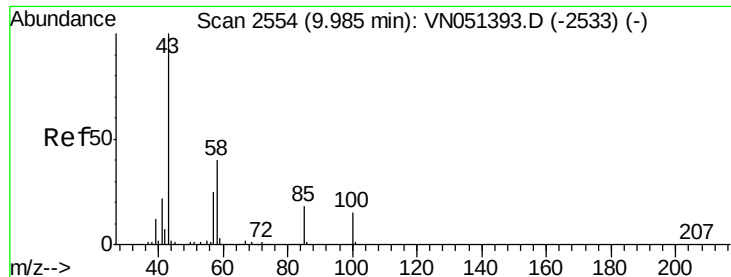
#50
Toluene-d8
Concen: 46.872 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051588.D
Acq: 27 Sep 2018 17:40

Tgt Ion: 98 Resp: 1435128
Ion Ratio Lower Upper
98 100
100 63.1 50.6 75.8



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

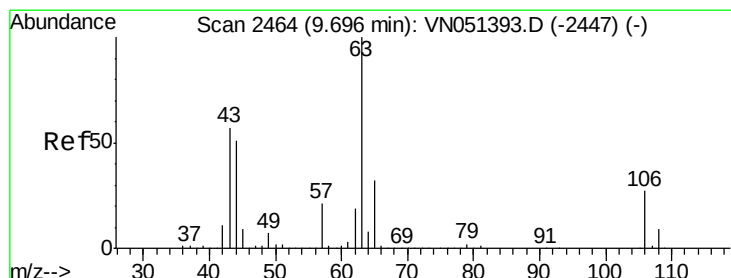
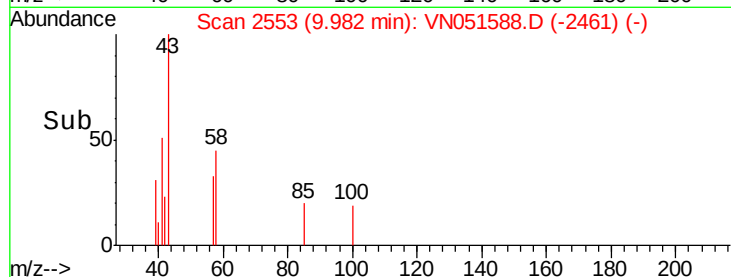
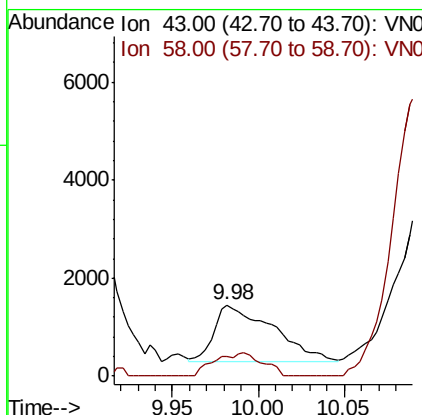
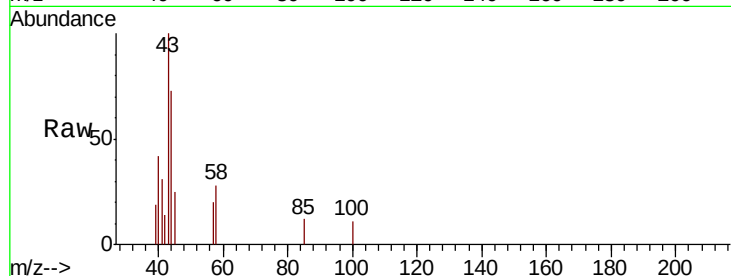




#51
 4-Methyl-2-Pentanone
 Concen: 0.414 ug/l
 RT: 9.98 min Scan# 2553
 Delta R.T. -0.00 min
 Lab File: VN051588.D
 Acq: 27 Sep 2018 17:40

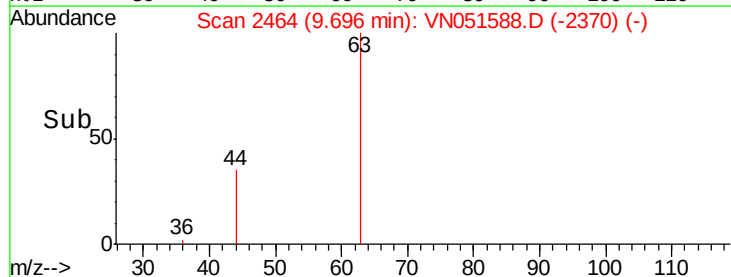
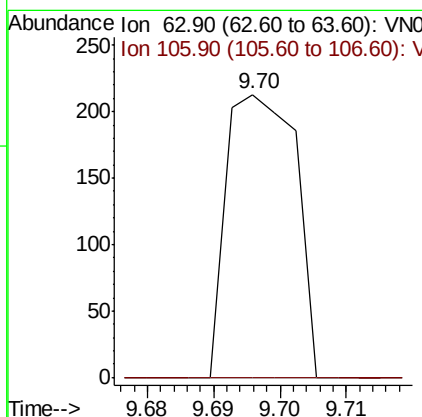
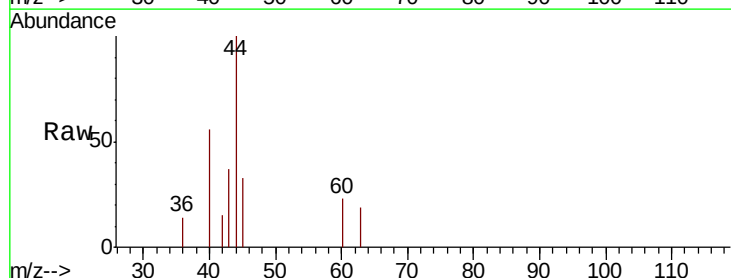
Instrument :
 MSVOA_N
 ClientSampleID :
 PB113263TB

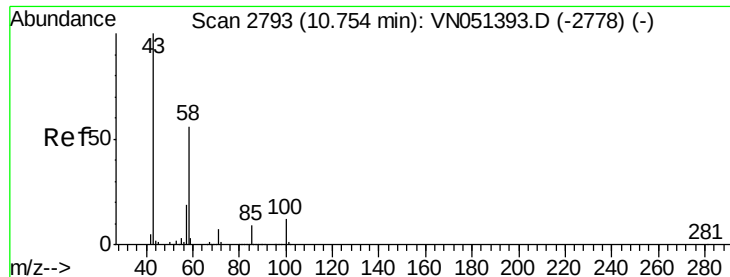
Tot Ion: 43 Resp: 2790
 Ion Ratio Lower Upper
 43 100
 58 33.4 31.5 47.3



#58
 2-Chloroethyl Vinyl ether
 Concen: 20.397 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN051588.D
 Acq: 27 Sep 2018 17:40

Tgt Ion: 63 Resp: 154
 Ion Ratio Lower Upper
 63 100
 106 0.0 21.4 32.2#

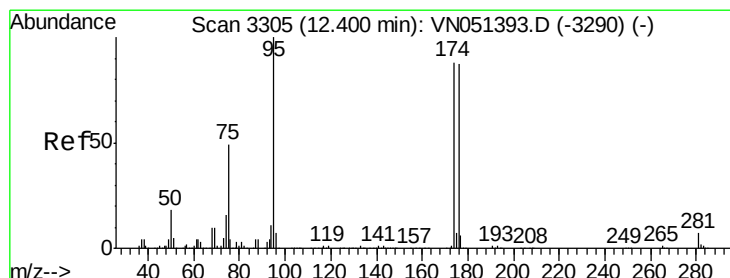
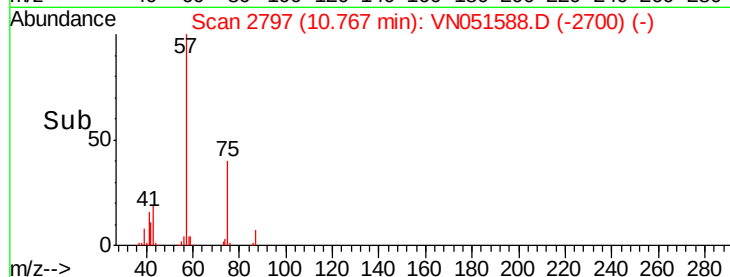
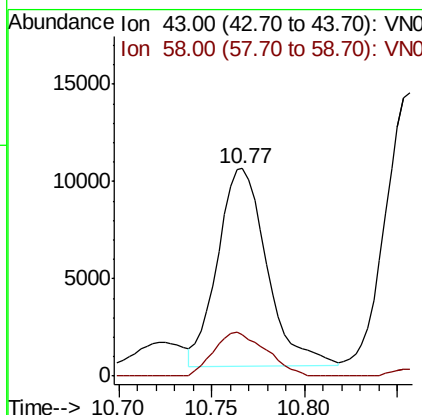
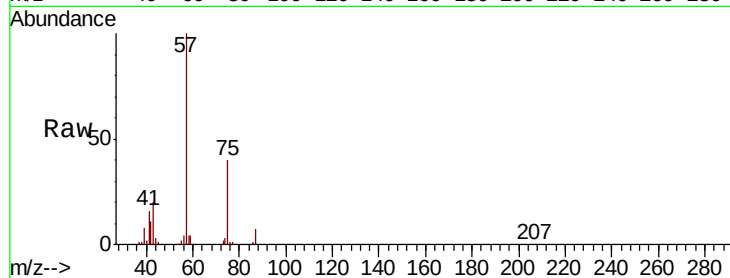




#59
2-Hexanone
Concen: 4.300 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN051588.D
Acq: 27 Sep 2018 17:40

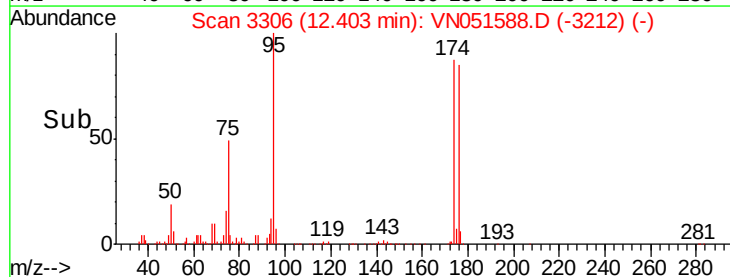
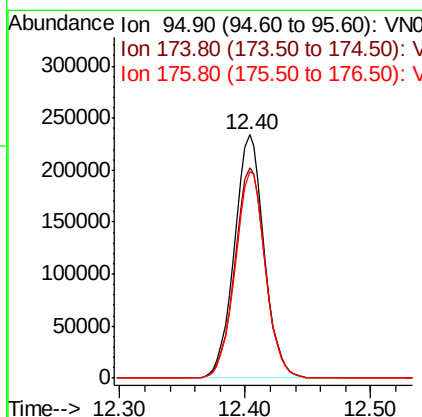
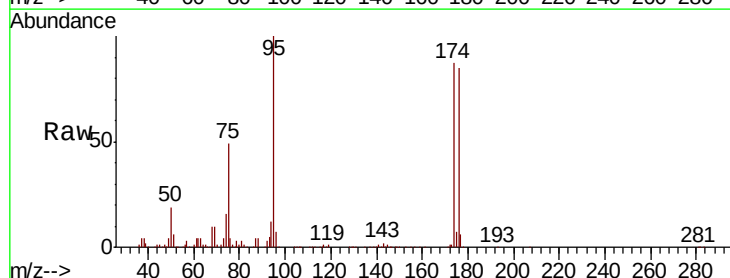
Instrument :
MSVOA_N
ClientSampleId :
PB113263TB

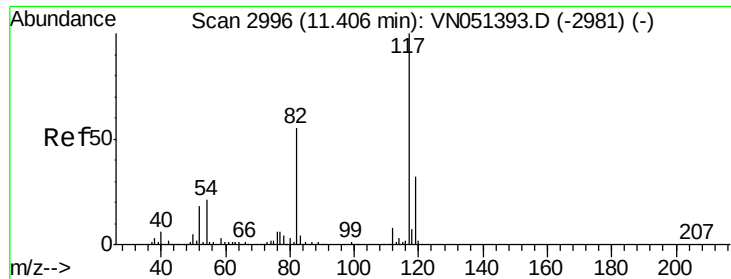
Tot Ion: 43 Resp: 18767
Ion Ratio Lower Upper
43 100
58 23.6 27.7 83.0#



#62
4-Bromofluorobenzene
Concen: 38.830 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051588.D
Acq: 27 Sep 2018 17:40

Tgt Ion: 95 Resp: 384606
Ion Ratio Lower Upper
95 100
174 88.4 0.0 181.6
176 86.4 0.0 176.4

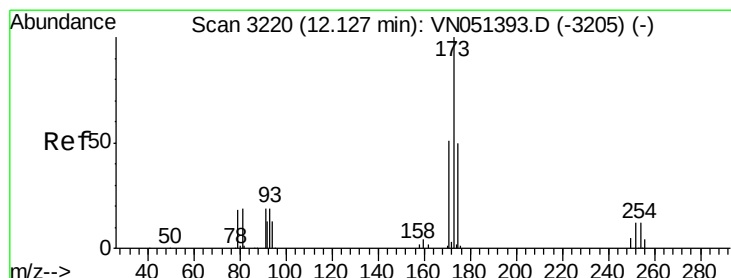
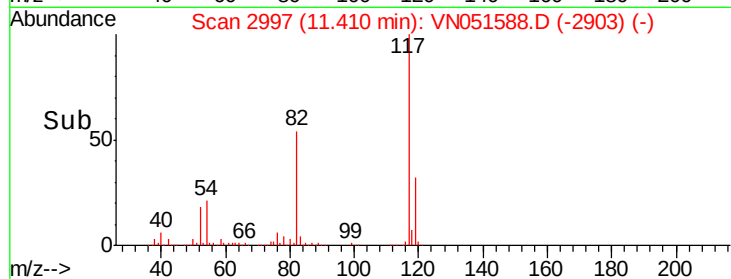
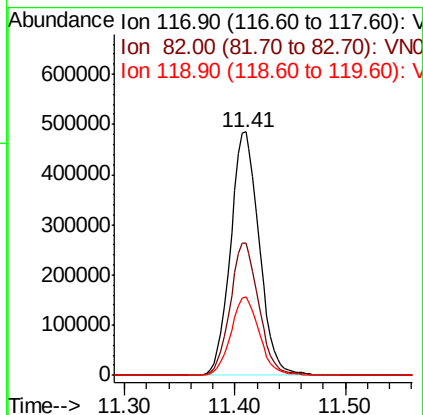
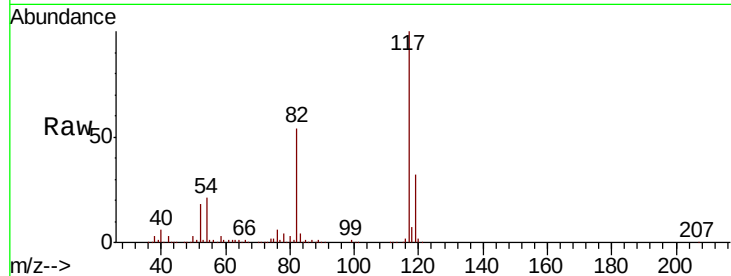




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051588.D
Acq: 27 Sep 2018 17:40

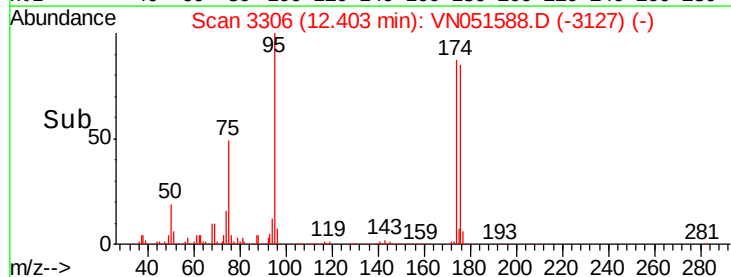
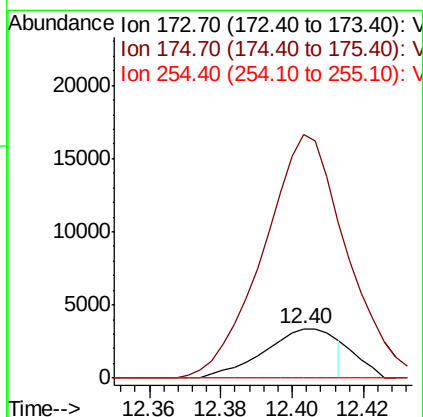
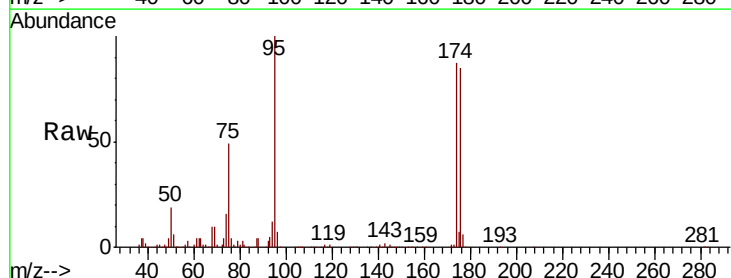
Instrument :
MSVOA_N
ClientSampled :
PB113263TB

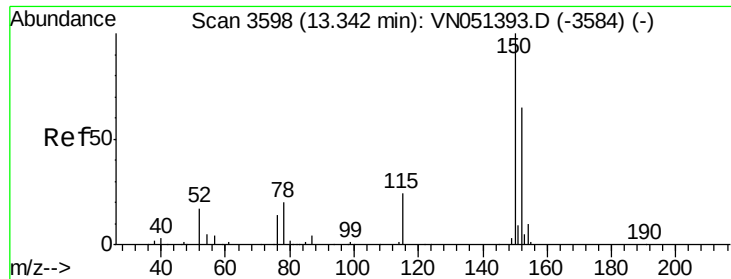
Tot Ion:117 Resp: 874995
Ion Ratio Lower Upper
117 100
82 54.5 44.2 66.2
119 32.0 25.9 38.9



#71
Bromoform
Concen: 0.804 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN051588.D
Acq: 27 Sep 2018 17:40

Tgt Ion:173 Resp: 4666
Ion Ratio Lower Upper
173 100
175 479.5 24.8 74.3#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051588.D

Acq: 27 Sep 2018 17:40

Instrument :

MSVOA_N

ClientSampleId :

PB113263TB

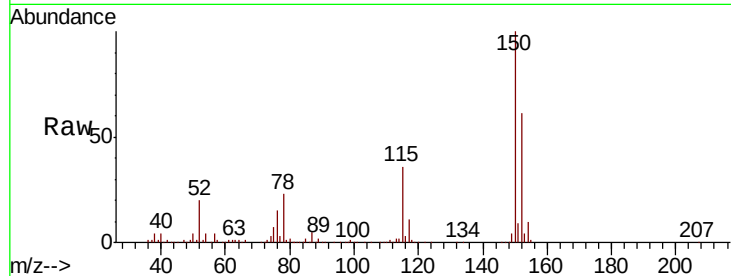
Tot Ion:152 Resp: 296829

Ion Ratio Lower Upper

152 100

115 57.7 28.3 84.9

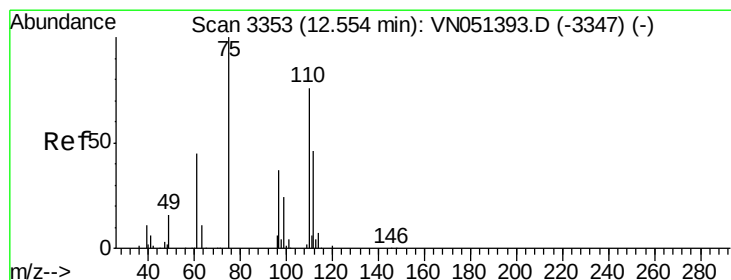
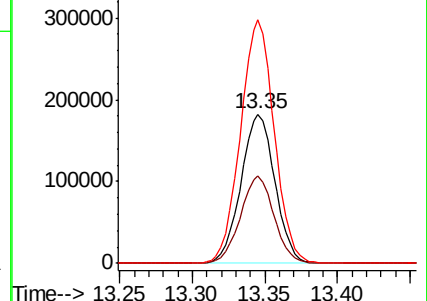
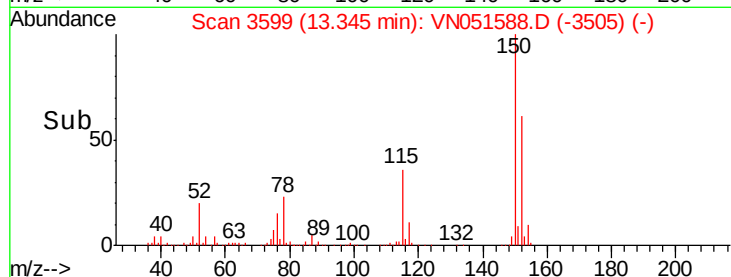
150 161.5 0.0 353.6



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



#76

1,2,3-Trichloropropane

Concen: 38.596 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051588.D

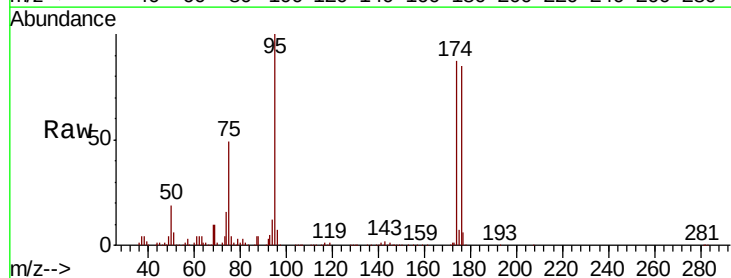
Acq: 27 Sep 2018 17:40

Tgt Ion: 75 Resp: 190184

Ion Ratio Lower Upper

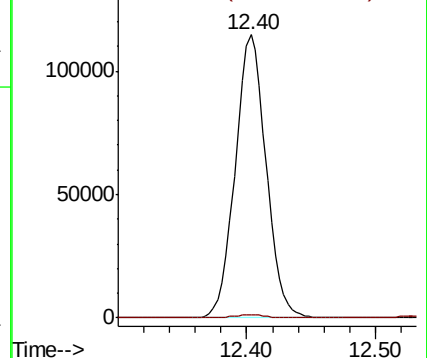
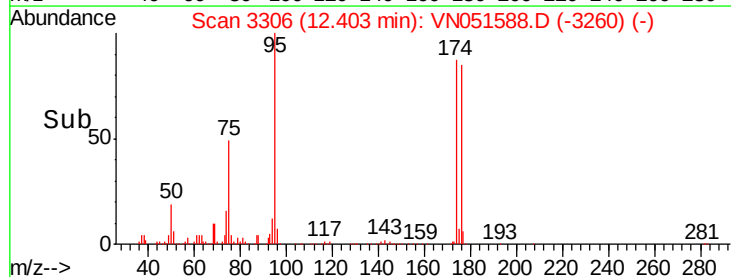
75 100

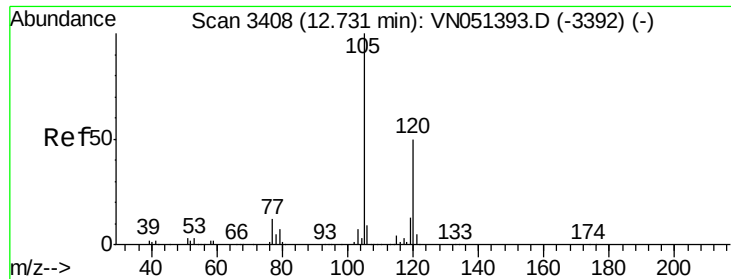
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.274 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN051588.D

Acq: 27 Sep 2018 17:40

Instrument :

MSVOA_N

ClientSampled :

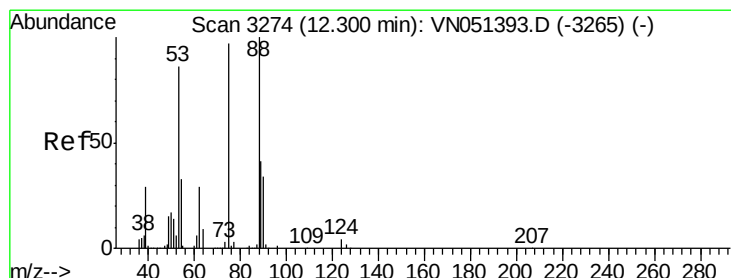
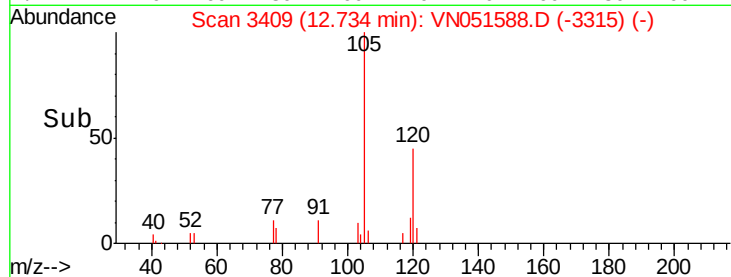
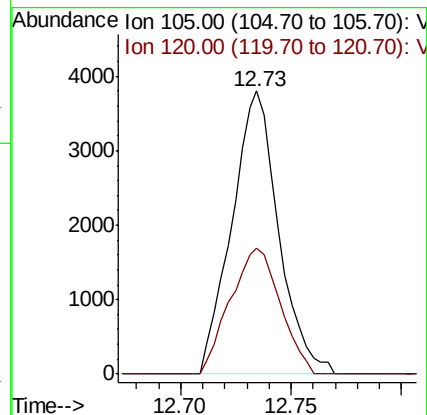
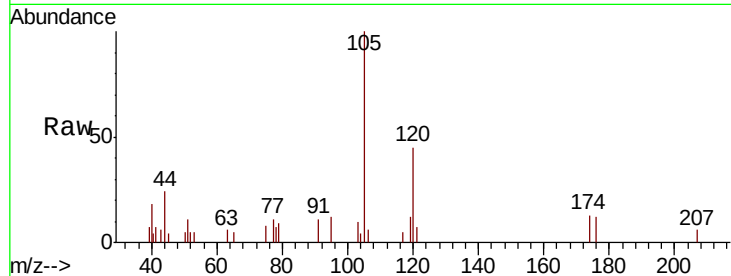
PB113263TB

Tot Ion:105 Resp: 5586

Ion Ratio Lower Upper

105 100

120 47.6 24.8 74.4



#81

trans-1,4-Dichloro-2-butene

Concen: 118.680 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051588.D

Acq: 27 Sep 2018 17:40

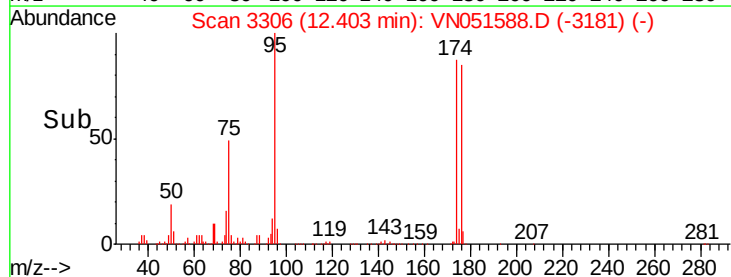
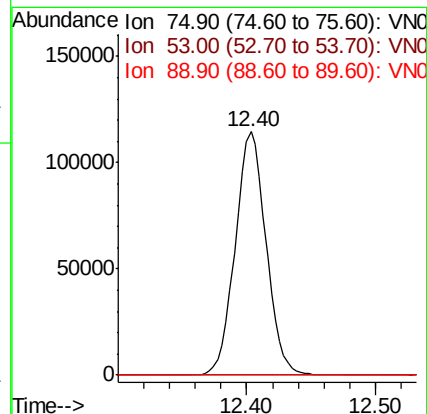
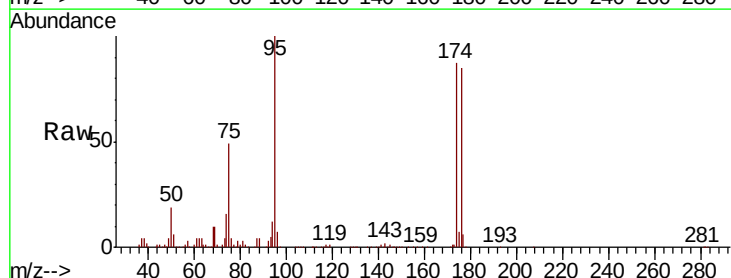
Tgt Ion: 75 Resp: 190184

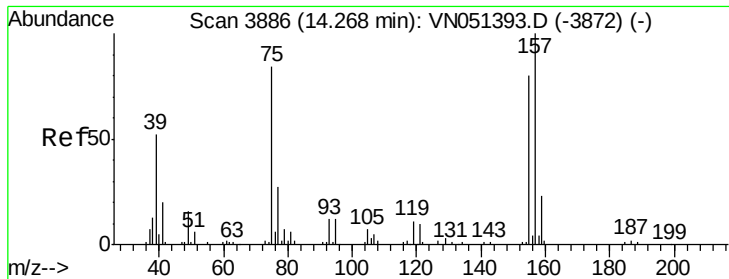
Ion Ratio Lower Upper

75 100

53 0.3 73.9 110.9#

89 0.0 36.7 55.1#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.331 ug/l

RT: 14.28 min Scan# 3889

Delta R.T. 0.01 min

Lab File: VN051588.D

Acq: 27 Sep 2018 17:40

Instrument :

MSVOA_N

ClientSampleId :

PB113263TB

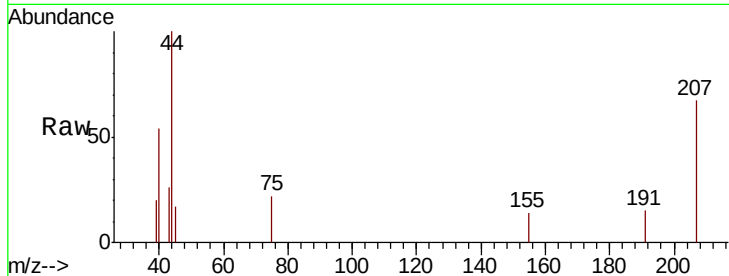
Tot Ion: 75 Resp: 276

Ion Ratio Lower Upper

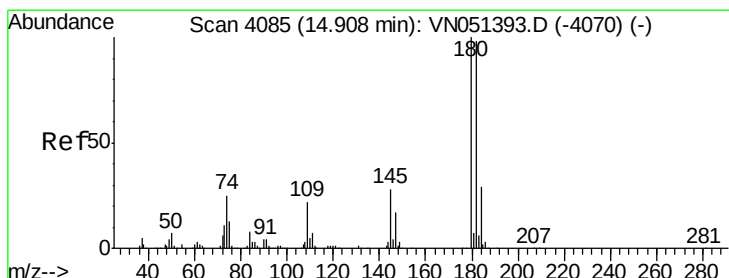
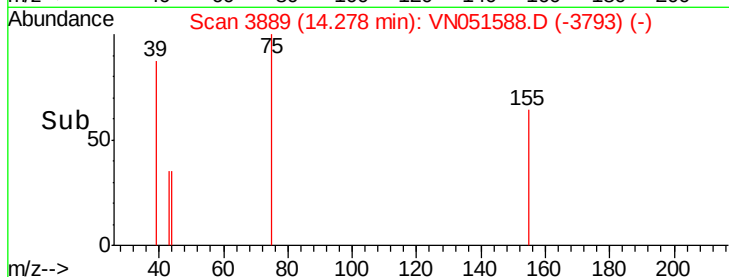
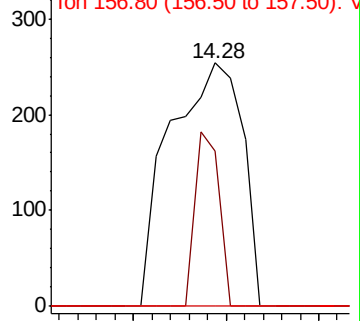
75 100

155 23.9 46.9 140.6#

157 0.0 58.4 175.1#



Abundance Ion 74.90 (74.60 to 75.60): VN051393.D (-3872) (-)



#93

1,2,4-Trichlorobenzene

Concen: 6.375 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN051588.D

Acq: 27 Sep 2018 17:40

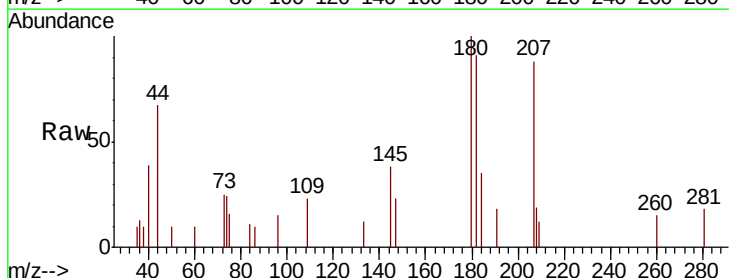
Tgt Ion: 180 Resp: 2563

Ion Ratio Lower Upper

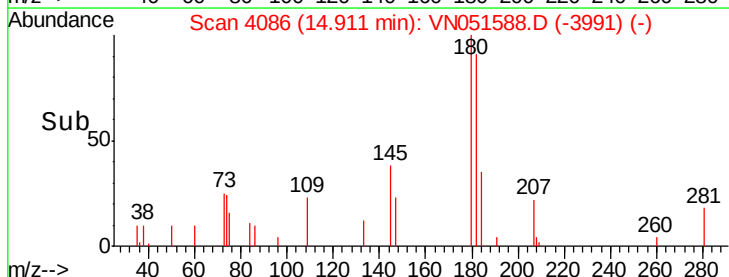
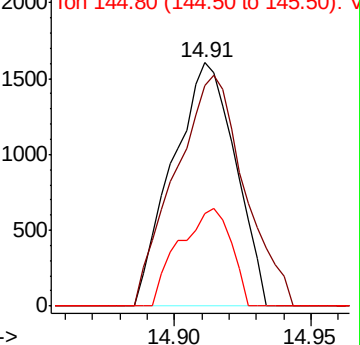
180 100

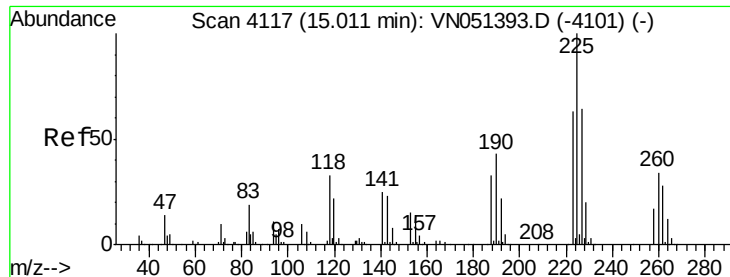
182 104.4 48.5 145.6

145 33.3 14.1 42.4



Abundance Ion 179.80 (179.50 to 180.50): VN051393.D (-4070) (-)





#94

Hexachlorobutadiene

Concen: 0.263 ug/l

RT: 15.01 min Scan# 4116

Delta R.T. -0.00 min

Lab File: VN051588.D

Acq: 27 Sep 2018 17:40

Instrument :

MSVOA_N

ClientSampleId :

PB113263TB

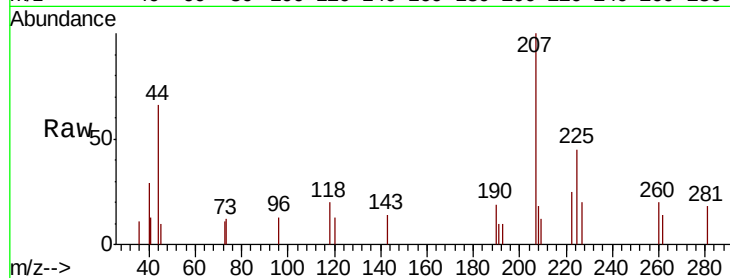
Tot Ion:225 Resp: 1060

Ion Ratio Lower Upper

225 100

223 52.6 31.9 95.9

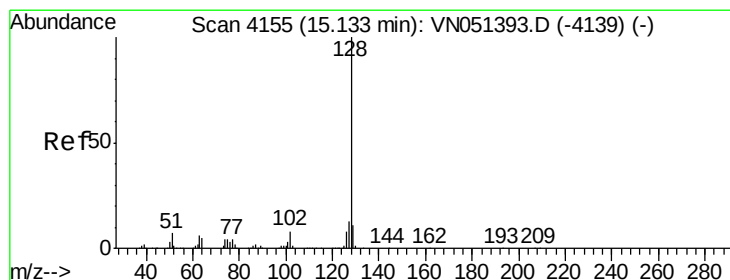
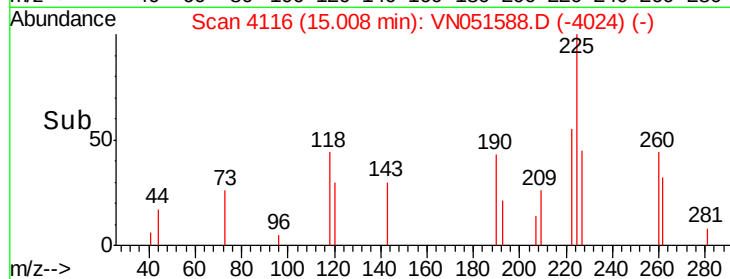
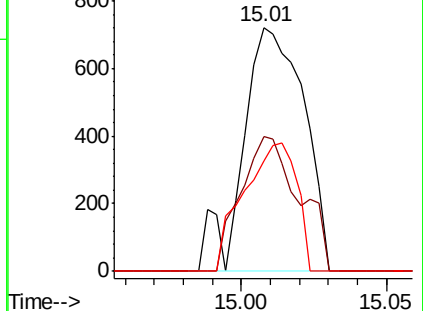
227 45.4 32.5 97.5



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: 8.560 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN051588.D

Acq: 27 Sep 2018 17:40

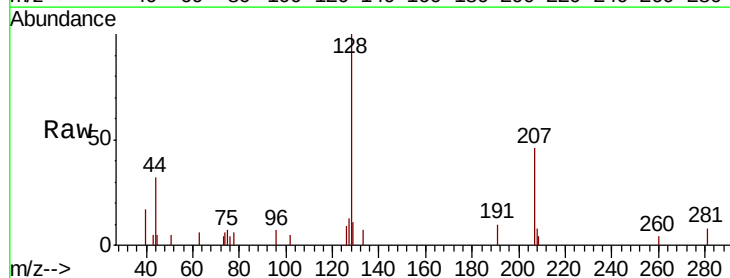
Tgt Ion:128 Resp: 6777

Ion Ratio Lower Upper

128 100

127 12.8 10.5 15.7

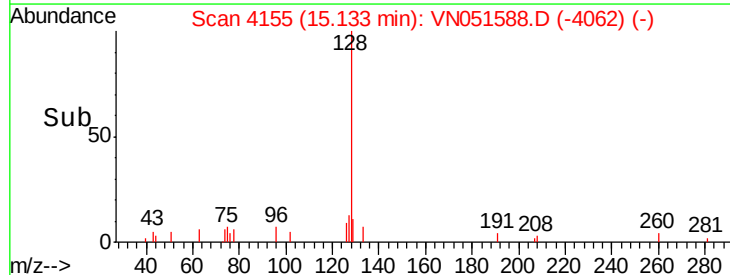
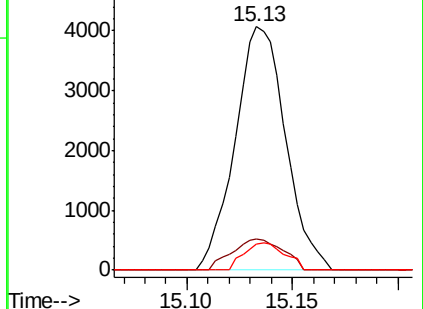
129 9.0 8.6 12.8

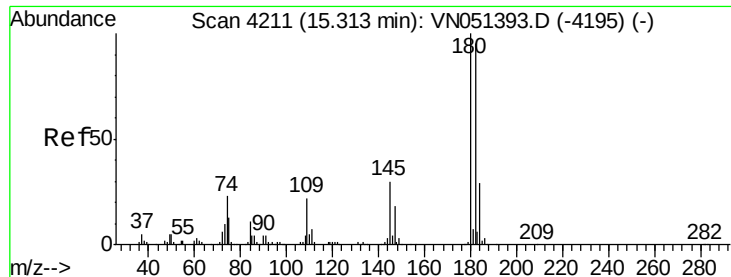


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.562 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN051588.D
 Acq: 27 Sep 2018 17:40

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113263TB

Tot Ion	Ratio	Lower	Upper
180	100		
182	65.1	47.2	141.6
145	31.0	14.6	43.8

