

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN083018\
 Data File : VN050960.D
 Acq On : 30 Aug 2018 14:12
 Operator : MD\SY
 Sample : PB112481ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112481ZHE#04

Quant Time: Aug 31 01:36:01 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 05:38:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	582448	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	977327	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	815314	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	275548	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	392849	56.03	ug/l	0.00
Spiked Amount			Recovery	=	112.06%	
35) Dibromofluoromethane	7.59	113	372649	47.93	ug/l	0.00
Spiked Amount			Recovery	=	95.86%	
50) Toluene-d8	10.09	98	1304113	44.86	ug/l	0.00
Spiked Amount			Recovery	=	89.72%	
62) 4-Bromofluorobenzene	12.40	95	349929	36.23	ug/l	0.00
Spiked Amount			Recovery	=	72.46%	

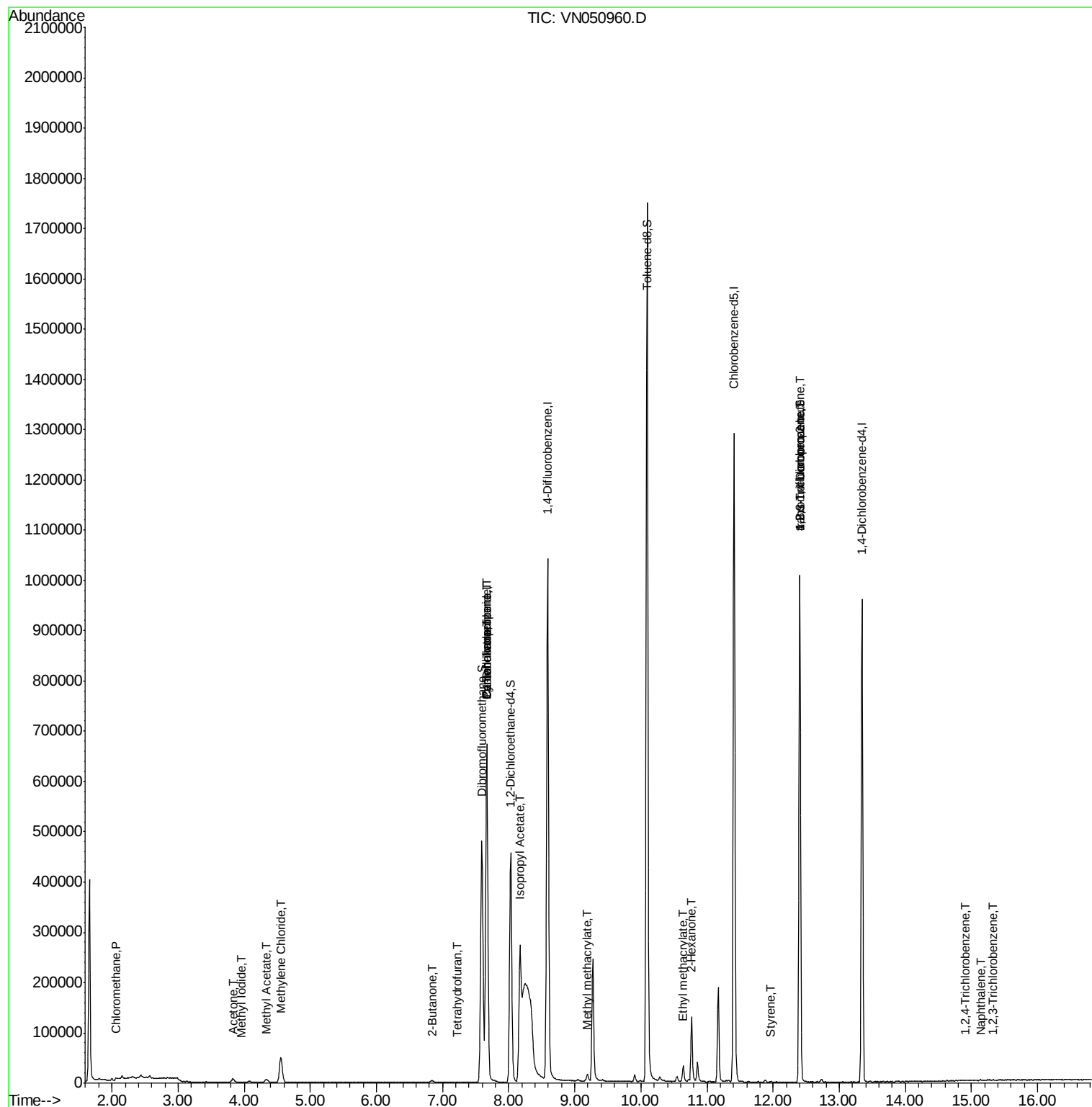
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2124	0.22	ug/l	# 78
5) Bromomethane	2.57	94	2677	Below	Cal	93
10) Methyl Iodide	3.95	142	268	6.38	ug/l	# 71
16) Acetone	3.83	43	13589	1.15	ug/l	93
18) Methyl Acetate	4.34	43	13512	2.04	ug/l	# 75
20) Methylene Chloride	4.55	84	40331	5.10	ug/l	97
25) 2-Butanone	6.85	43	1999	0.71	ug/l	# 68
29) Tetrahydrofuran	7.22	42	577	0.36	ug/l	# 49
31) Cyclohexane	7.67	56	9792	1.28	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	39083	3.39	ug/l	# 48
38) Carbon Tetrachloride	7.67	117	51834	4.45	ug/l	# 17
43) Isopropyl Acetate	8.17	43	330923	29.05	ug/l	# 91
48) Methyl methacrylate	9.18	41	8557	1.47	ug/l	# 21
56) Ethyl methacrylate	10.64	69	634	2.41	ug/l	# 1
59) 2-Hexanone	10.77	43	18115	4.00	ug/l	# 55
70) Styrene	11.97	104	307	1.28	ug/l	# 26
75) 1,1,2,2-Tetrachloroethane	12.41	83	58	Below	Cal	# 1
76) 1,2,3-Trichloropropane	12.40	75	165127	34.21	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	165127	115.66	ug/l	# 15
93) 1,2,4-Trichlorobenzene	14.90	180	118	4.10	ug/l	# 33
95) Naphthalene	15.14	128	428	5.43	ug/l	# 69
96) 1,2,3-Trichlorobenzene	15.32	180	61	3.31	ug/l	# 81

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050960.D

Acq: 30 Aug 2018 14:12

Instrument :

MSVOA_N

ClientSampleId :

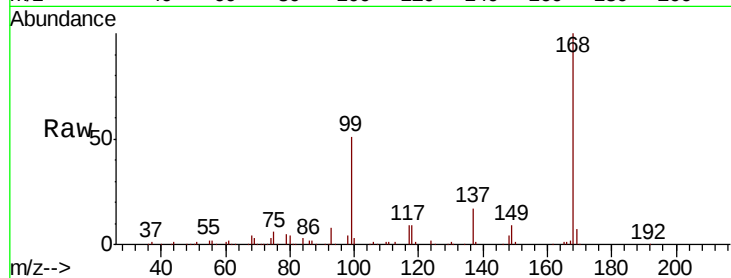
PB112481ZHE#04

Tot Ion:168 Resp: 582448

Ion Ratio Lower Upper

168 100

99 50.6 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

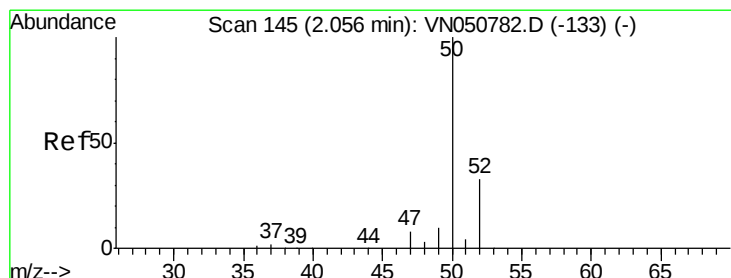
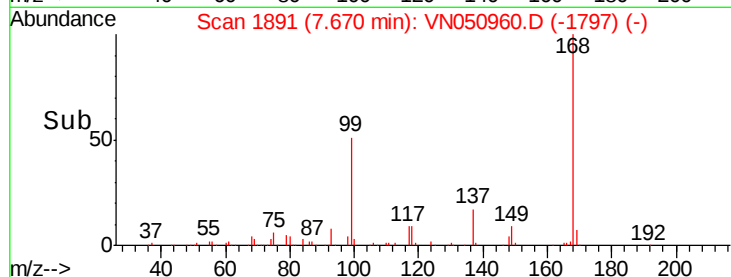
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.22 ug/l

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050960.D

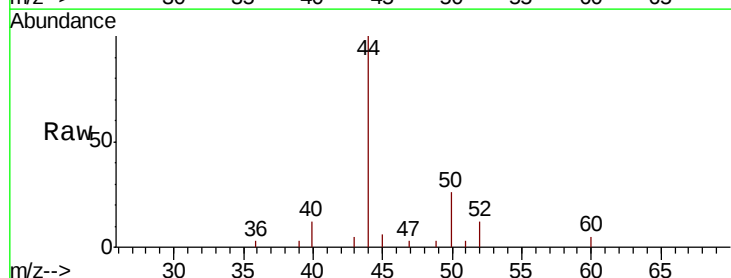
Acq: 30 Aug 2018 14:12

Tgt Ion: 50 Resp: 2124

Ion Ratio Lower Upper

50 100

52 45.5 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.06

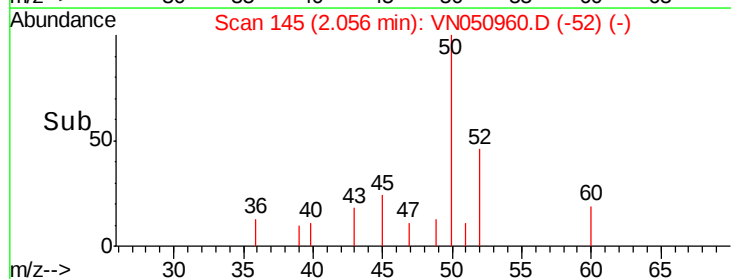
1500

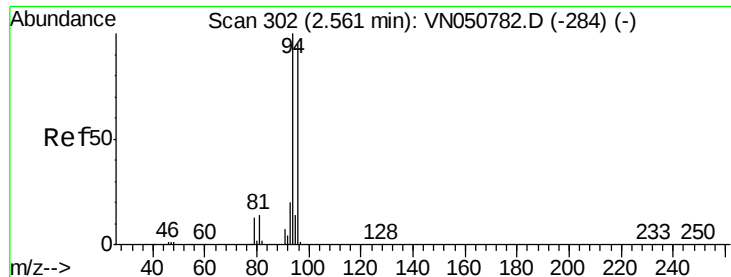
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050960.D

Acq: 30 Aug 2018 14:12

Instrument :

MSVOA_N

ClientSampleId :

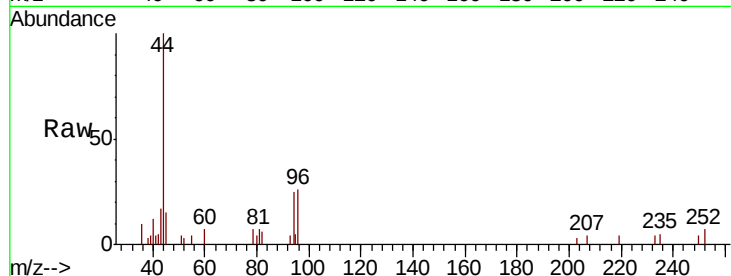
PB112481ZHE#04

Tot Ion: 94 Resp: 2677

Ion Ratio Lower Upper

94 100

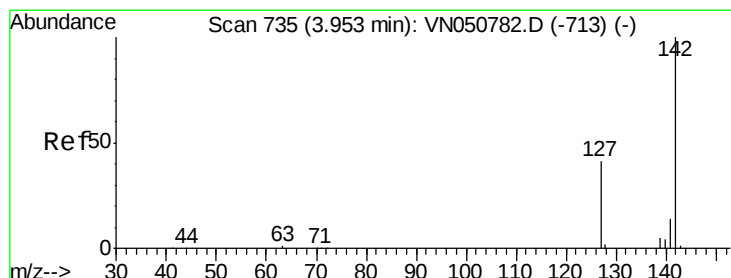
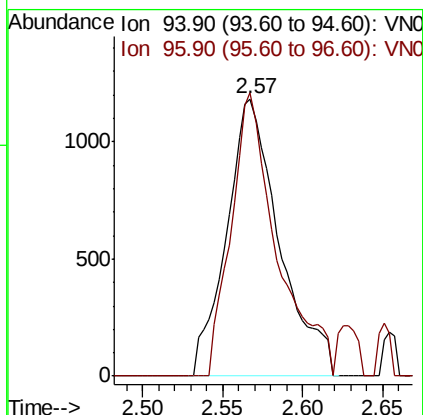
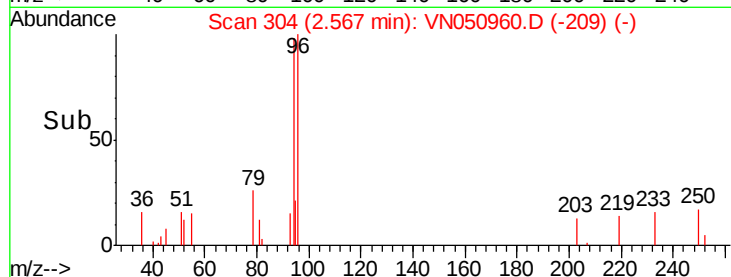
96 102.1 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VN050960.D (-209) (-)

Ion 95.90 (95.60 to 96.60): VN050960.D (-209) (-)

Time-->



#10

Methyl Iodide

Concen: 6.38 ug/l

RT: 3.95 min Scan# 733

Delta R.T. -0.01 min

Lab File: VN050960.D

Acq: 30 Aug 2018 14:12

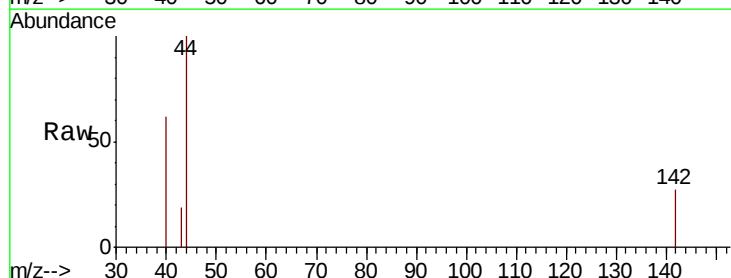
Tgt Ion: 142 Resp: 268

Ion Ratio Lower Upper

142 100

127 23.1 31.7 47.5#

141 0.0 11.4 17.0#

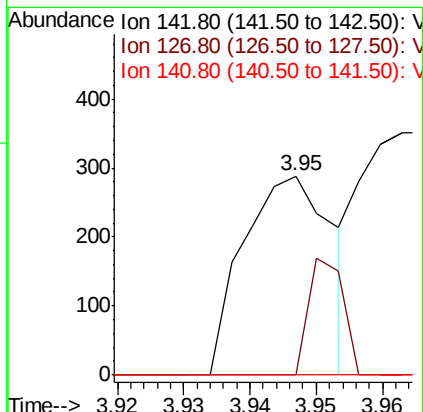
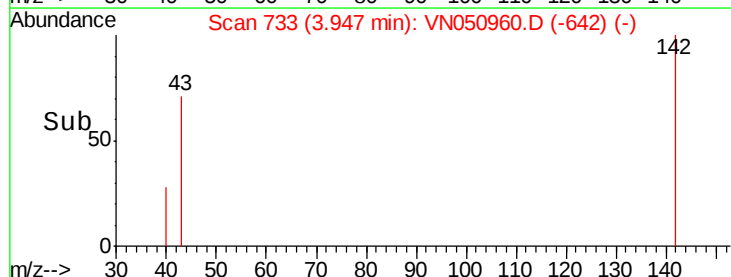


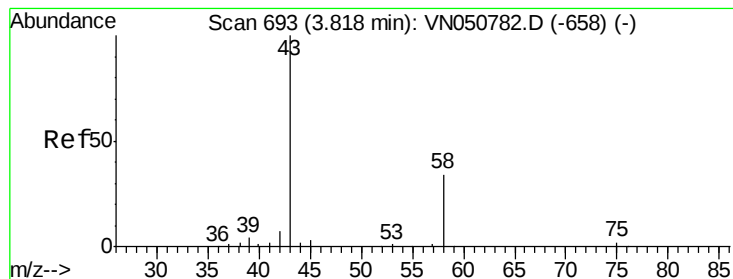
Abundance Ion 141.80 (141.50 to 142.50): VN050960.D (-642) (-)

Ion 126.80 (126.50 to 127.50): VN050960.D (-642) (-)

Ion 140.80 (140.50 to 141.50): VN050960.D (-642) (-)

Time-->





#16

Acetone

Concen: 1.15 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN050960.D

Acq: 30 Aug 2018 14:12

Instrument :

MSVOA_N

ClientSampleId :

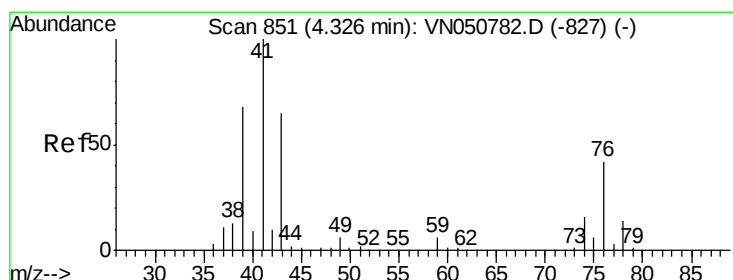
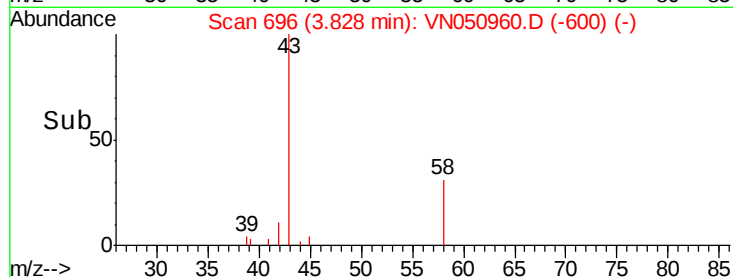
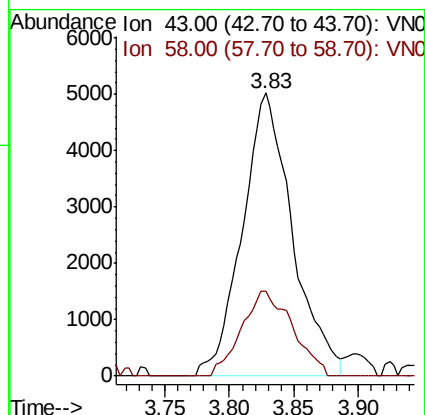
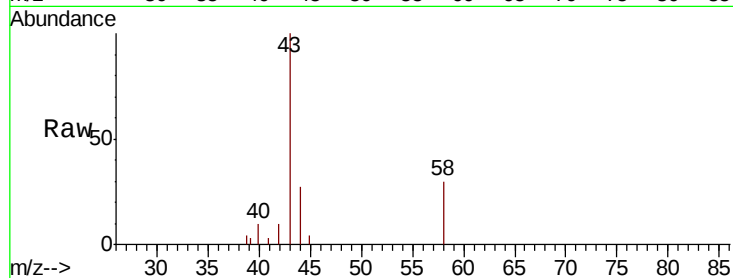
PB112481ZHE#04

Tot Ion: 43 Resp: 13589

Ion Ratio Lower Upper

43 100

58 30.1 27.2 40.8



#18

Methyl Acetate

Concen: 2.04 ug/l

RT: 4.34 min Scan# 855

Delta R.T. 0.01 min

Lab File: VN050960.D

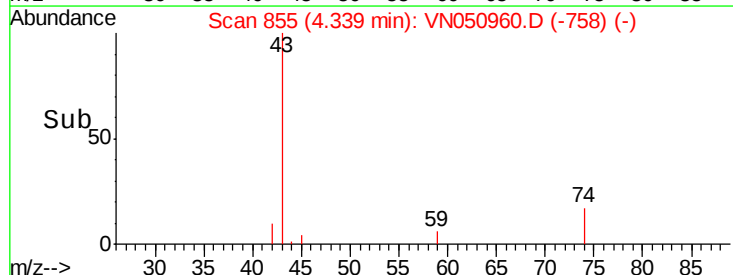
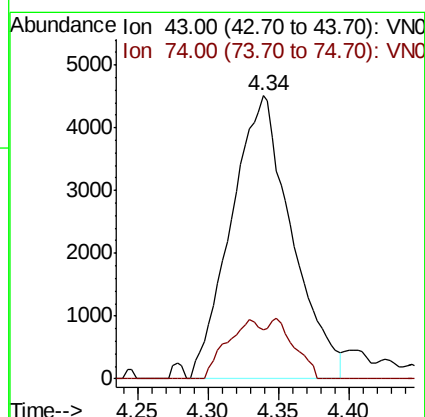
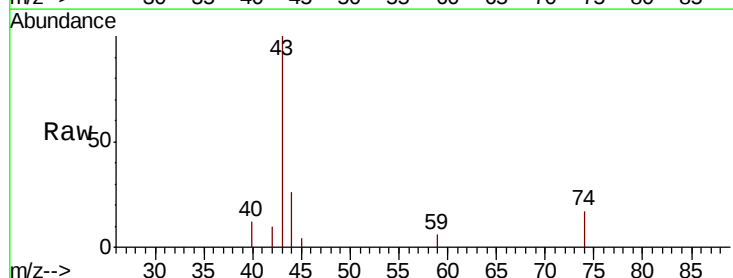
Acq: 30 Aug 2018 14:12

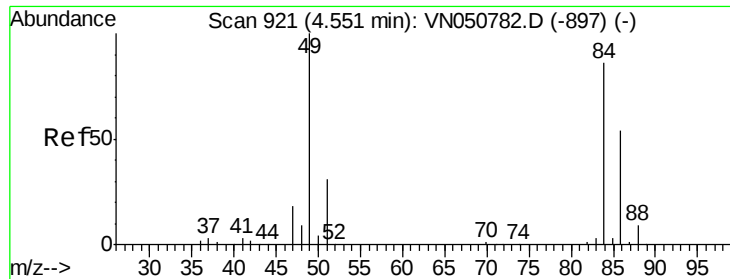
Tgt Ion: 43 Resp: 13512

Ion Ratio Lower Upper

43 100

74 12.2 19.8 29.8#

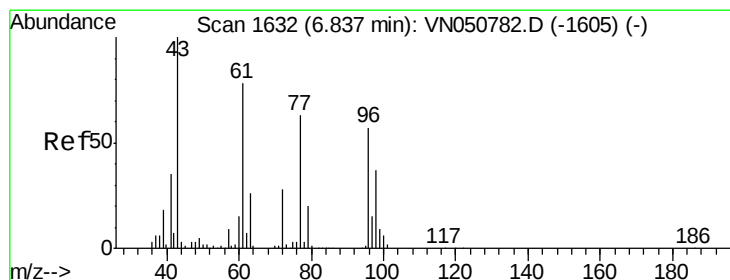
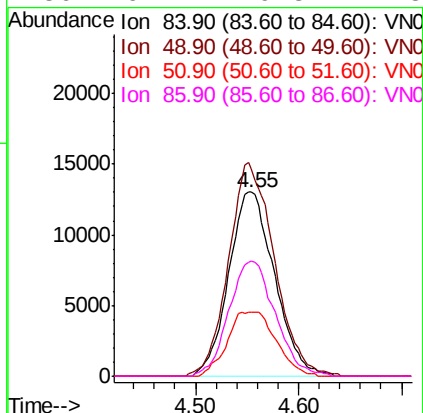
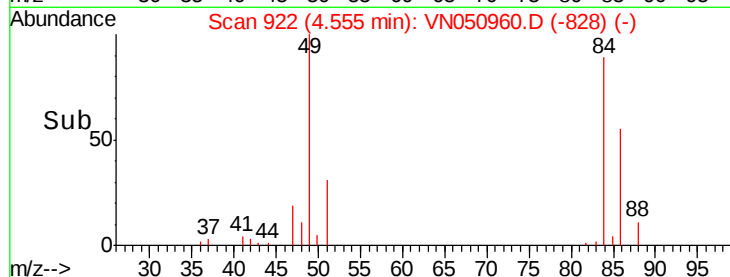
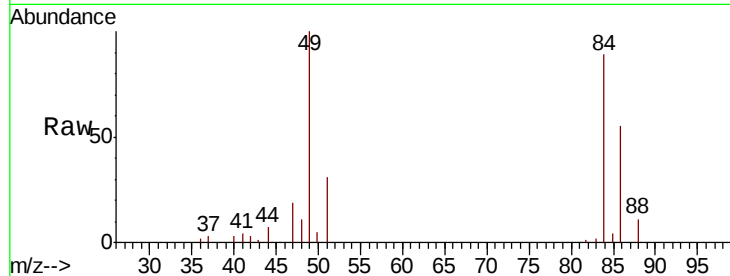




#20
Methvlene Chloride
Concen: 5.10 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050960.D
Acq: 30 Aug 2018 14:12

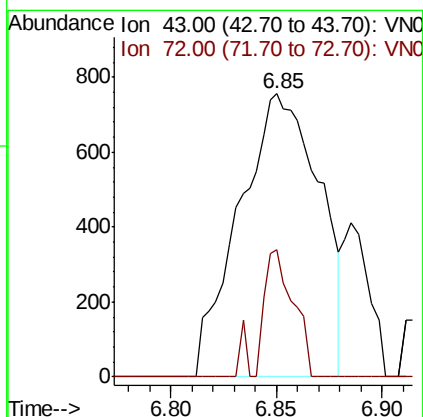
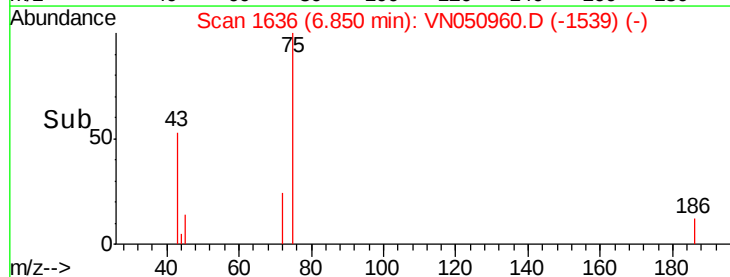
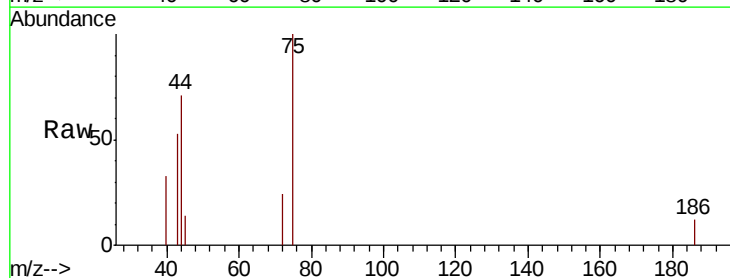
Instrument :
MSVOA_N
ClientSampleId :
PB112481ZHE#04

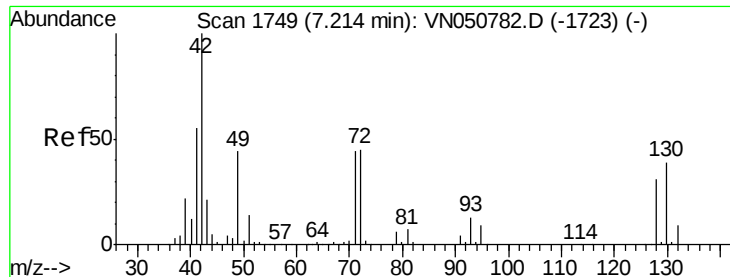
Tot Ion:	84	Resp:	40331
Ion	Ratio	Lower	Upper
84	100		
49	111.2	93.2	139.8
51	35.1	29.0	43.6
86	62.4	49.8	74.8



#25
2-Butanone
Concen: 0.71 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN050960.D
Acq: 30 Aug 2018 14:12

Tgt Ion:	43	Resp:	1999
Ion	Ratio	Lower	Upper
43	100		
72	44.7	22.3	33.5#





#29

Tetrahydrofuran

Concen: 0.36 ug/l

RT: 7.22 min Scan# 1752

Delta R.T. 0.01 min

Lab File: VN050960.D

Acq: 30 Aug 2018 14:12

Instrument :

MSVOA_N

ClientSampleId :

PB112481ZHE#04

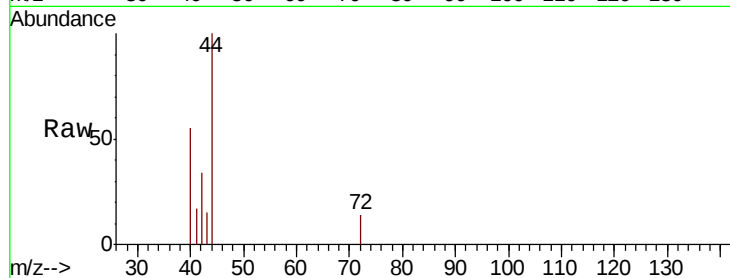
Tot Ion: 42 Resp: 577

Ion Ratio Lower Upper

42 100

72 10.4 35.5 53.3#

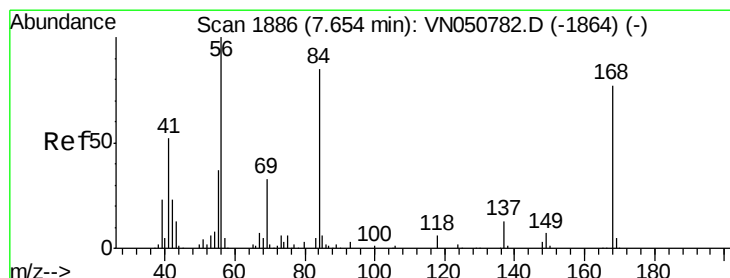
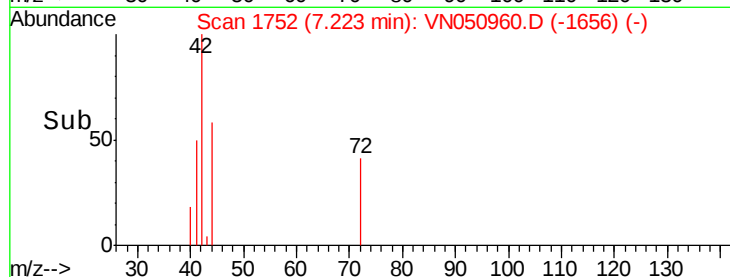
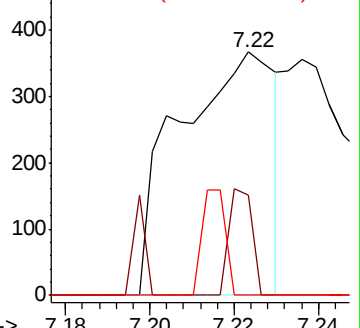
71 10.6 33.7 50.5#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 1.28 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050960.D

Acq: 30 Aug 2018 14:12

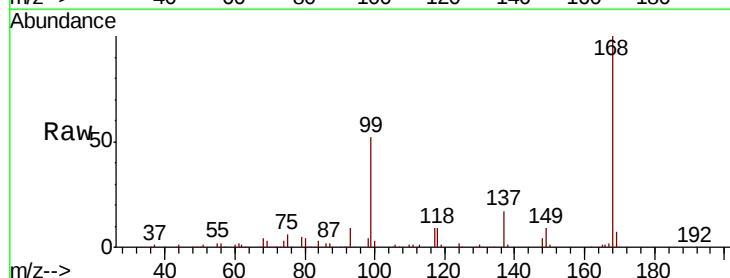
Tgt Ion: 56 Resp: 9792

Ion Ratio Lower Upper

56 100

69 192.9 26.2 39.4#

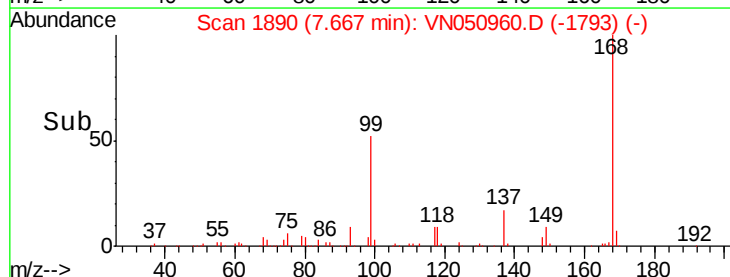
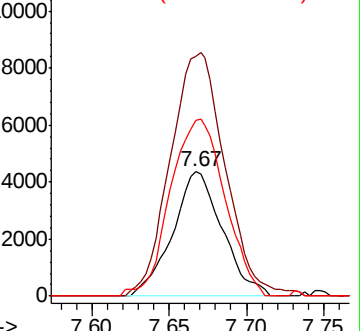
84 140.9 68.3 102.5#

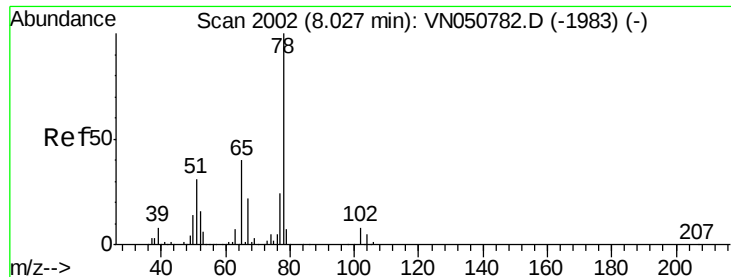


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 56.03 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050960.D

Acq: 30 Aug 2018 14:12

Instrument :

MSVOA_N

ClientSampleId :

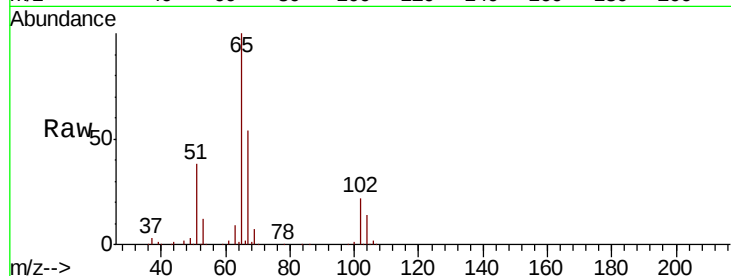
PB112481ZHE#04

Tot Ion: 65 Resp: 392849

Ion Ratio Lower Upper

65 100

67 53.7 0.0 110.4



Abundance Ion 64.90 (64.60 to 65.60): VN050782.D (-1983) (-)

Ion 66.90 (66.60 to 67.60): VN050782.D (-1983) (-)

8.03

150000

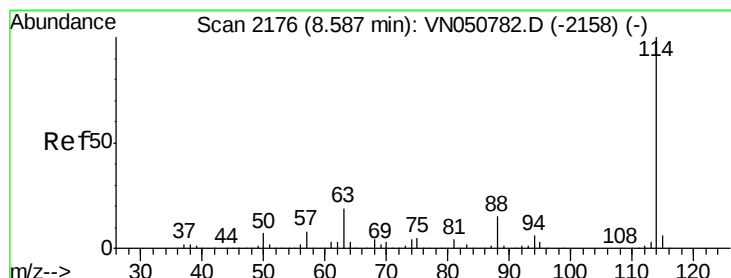
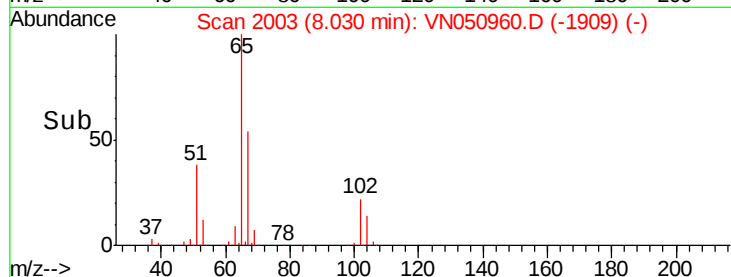
100000

50000

0

7.90 8.00 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN050960.D

Acq: 30 Aug 2018 14:12

Tgt Ion: 114 Resp: 977327

Ion Ratio Lower Upper

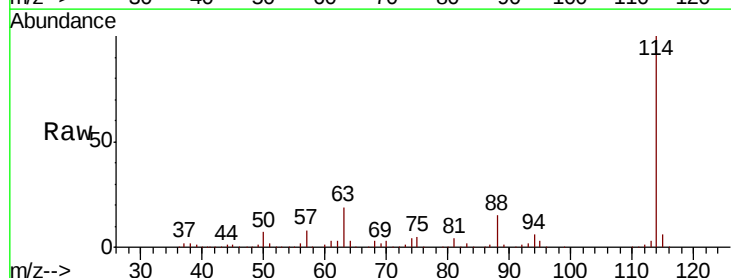
114 100

63 19.2

0.0 38.6

88 15.2

0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): VN050782.D (-2158) (-)

Ion 63.00 (62.70 to 63.70): VN050782.D (-2158) (-)

Ion 87.90 (87.60 to 88.60): VN050782.D (-2158) (-)

8.59

600000

500000

400000

300000

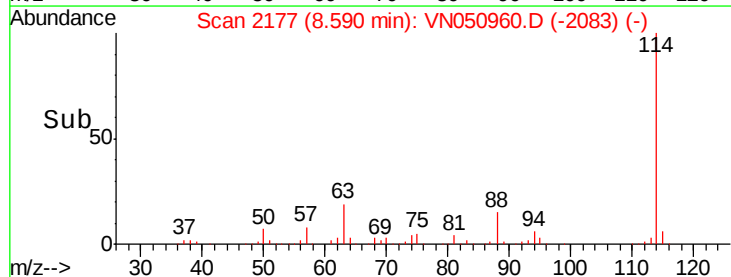
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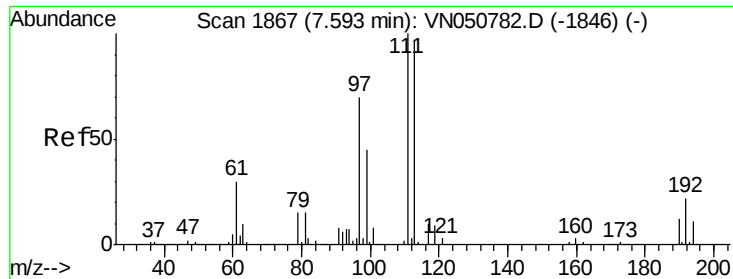
100000

0

8.50 8.60 8.70

Time-->

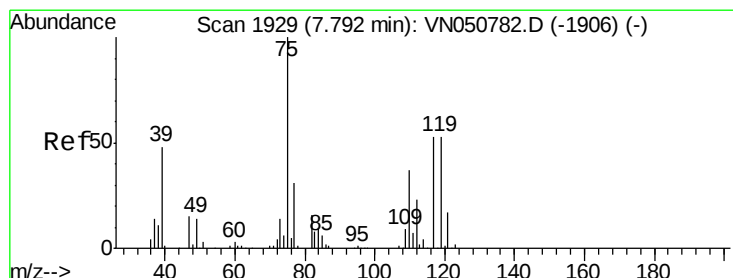
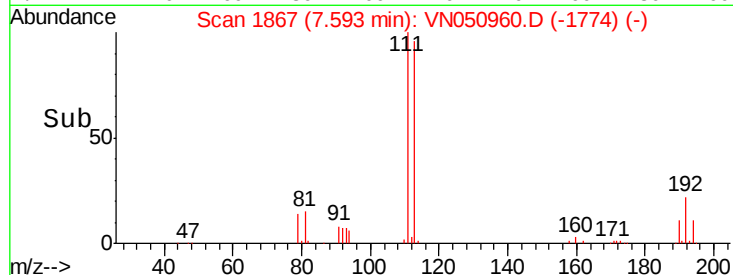
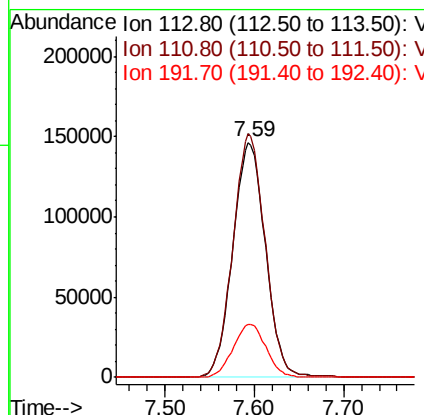
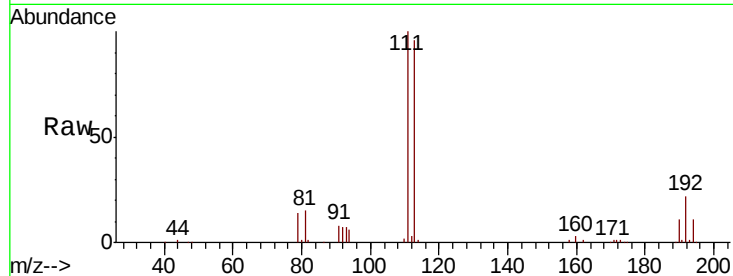




#35
 Dibromofluoromethane
 Concen: 47.93 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050960.D
 Acq: 30 Aug 2018 14:12

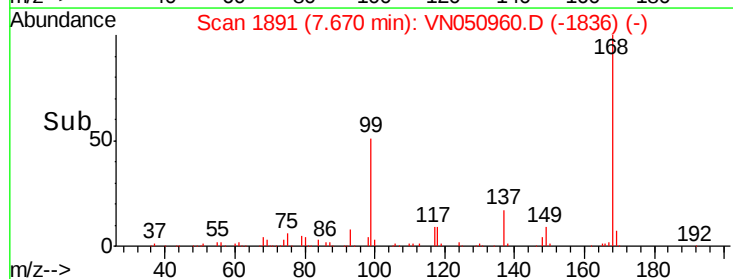
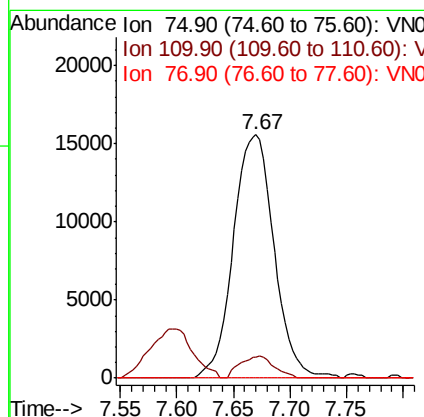
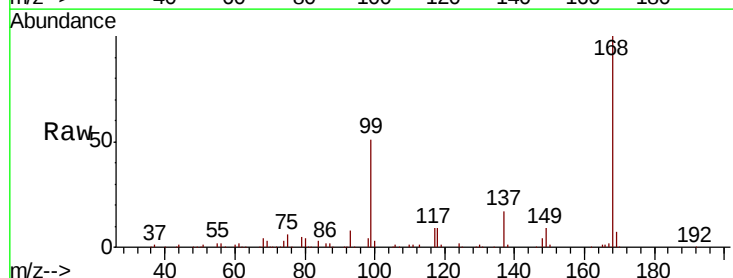
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112481ZHE#04

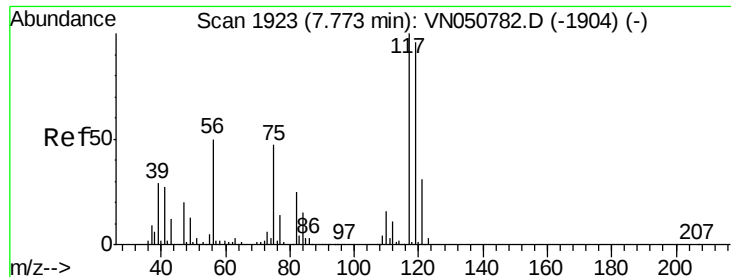
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.6	123.8
192	22.8	18.0	27.0



#36
 1,1-Dichloropropene
 Concen: 3.39 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.12 min
 Lab File: VN050960.D
 Acq: 30 Aug 2018 14:12

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.5	18.1	54.4#
77	0.0	24.8	37.2#

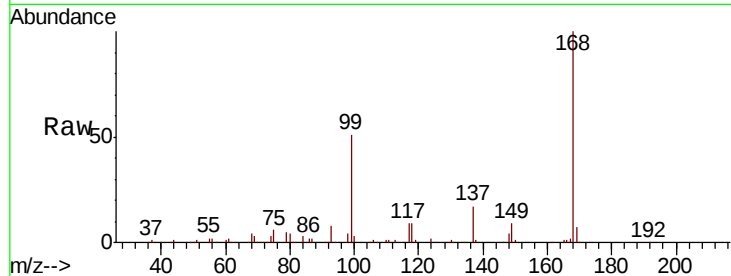




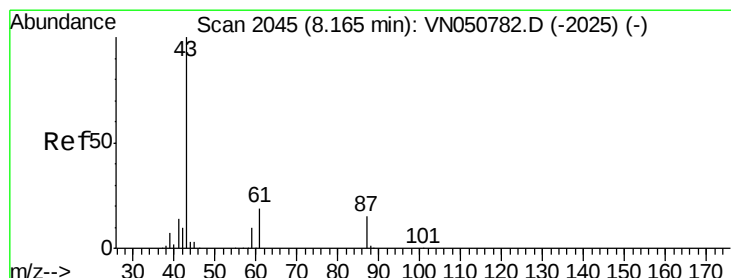
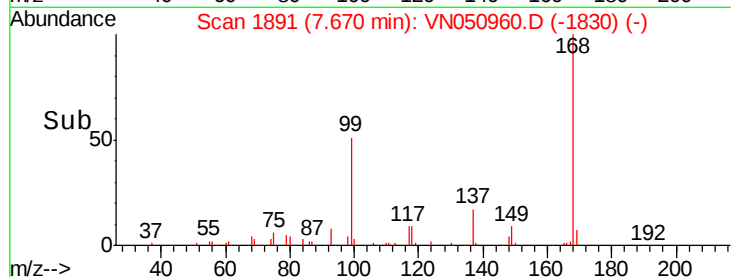
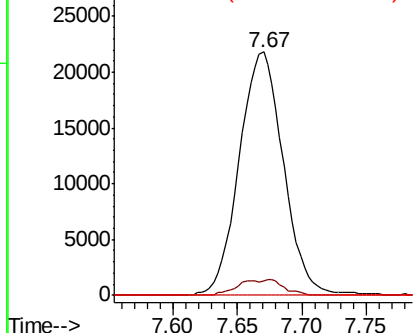
#38
Carbon Tetrachloride
Concen: 4.45 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.10 min
Lab File: VN050960.D
Acq: 30 Aug 2018 14:12

Instrument :
MSVOA_N
ClientSampleId :
PB112481ZHE#04

Tot Ion:117 Resp: 51834
Ion Ratio Lower Upper
117 100
119 5.7 76.3 114.5#
121 0.0 24.6 36.8#

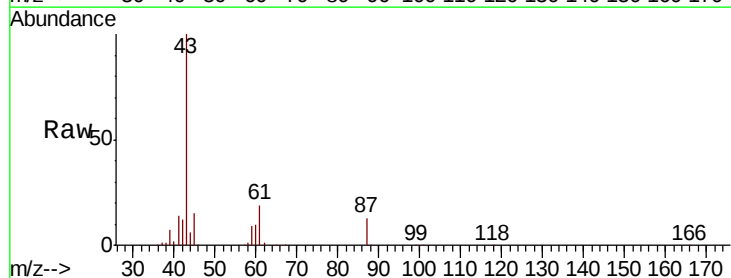


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

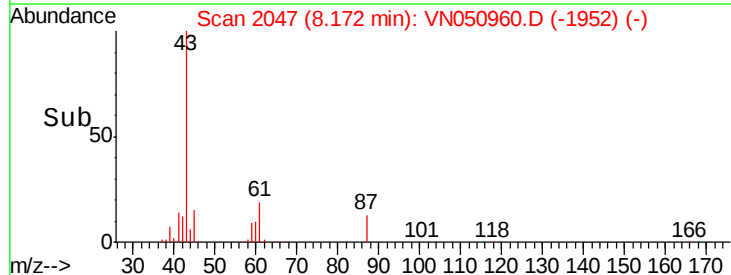
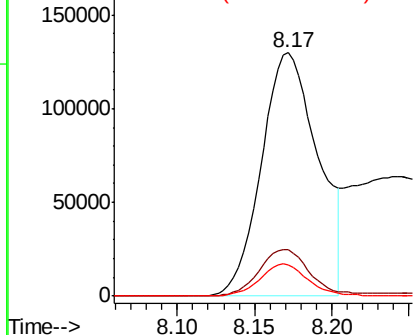


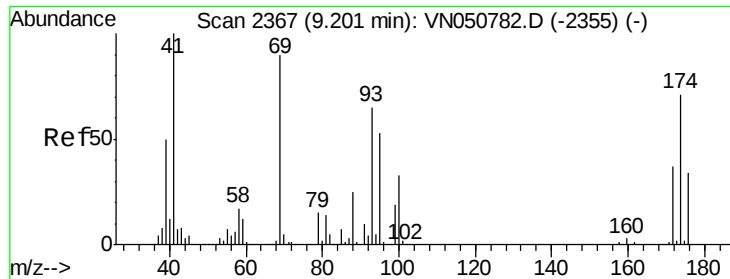
#43
Isopropyl Acetate
Concen: 29.05 ug/l
RT: 8.17 min Scan# 2047
Delta R.T. 0.01 min
Lab File: VN050960.D
Acq: 30 Aug 2018 14:12

Tgt Ion: 43 Resp: 330923
Ion Ratio Lower Upper
43 100
61 17.3 17.5 26.3#
87 11.3 11.3 16.9#



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

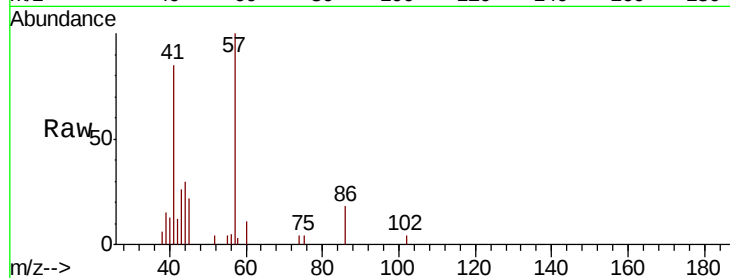




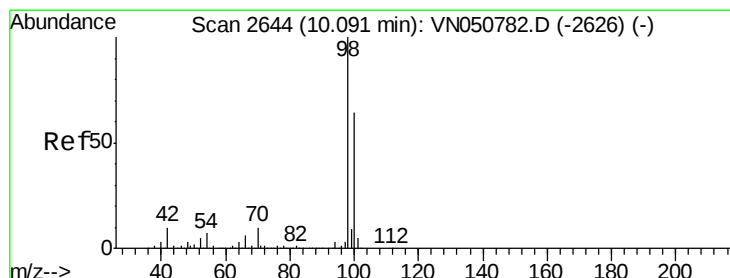
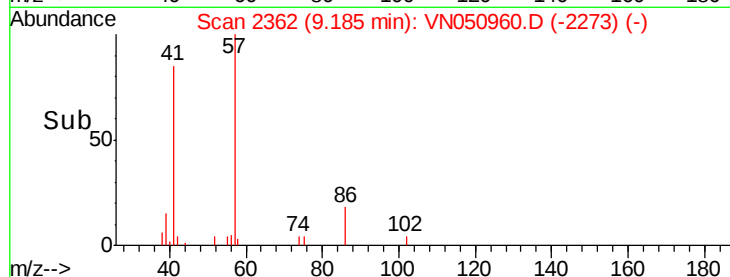
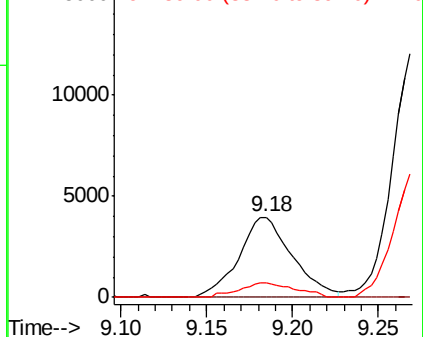
#48
Methvl methacrylate
Concen: 1.47 ug/l
RT: 9.18 min Scan# 2362
Delta R.T. -0.02 min
Lab File: VN050960.D
Acq: 30 Aug 2018 14:12

Instrument :
MSVOA_N
ClientSampleId :
PB112481ZHE#04

Tot Ion: 41 Resp: 8557
Ion Ratio Lower Upper
41 100
69 0.0 74.7 112.1#
39 18.7 42.2 63.2#

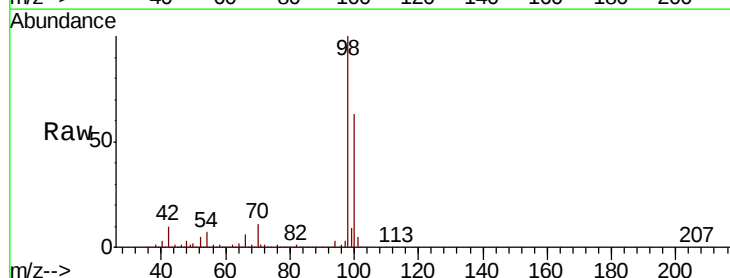


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

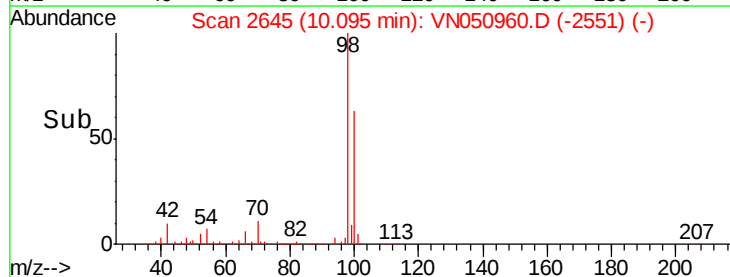
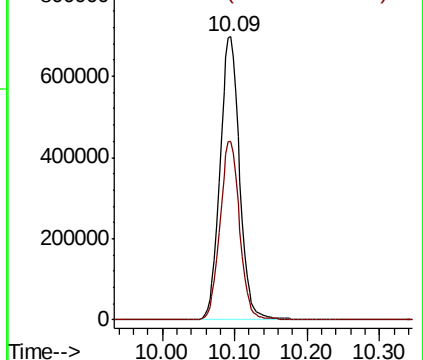


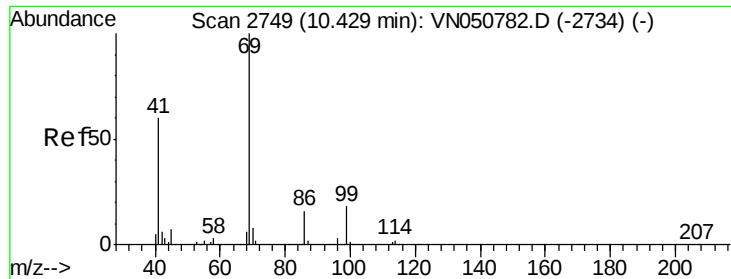
#50
Toluene-d8
Concen: 44.86 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050960.D
Acq: 30 Aug 2018 14:12

Tgt Ion: 98 Resp: 1304113
Ion Ratio Lower Upper
98 100
100 63.5 51.5 77.3



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





#56

Ethyl methacrylate

Concen: 2.41 ug/l

RT: 10.64 min Scan# 2816

Delta R.T. 0.22 min

Lab File: VN050960.D

Acq: 30 Aug 2018 14:12

Instrument :

MSVOA_N

ClientSampleId :

PB112481ZHE#04

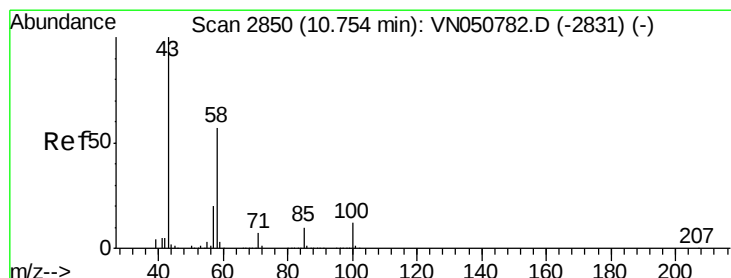
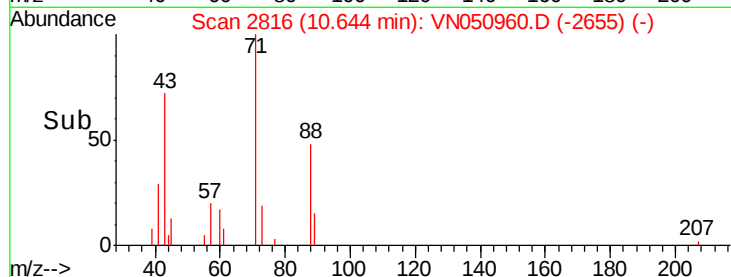
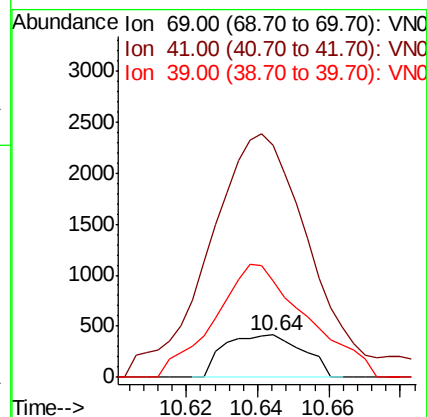
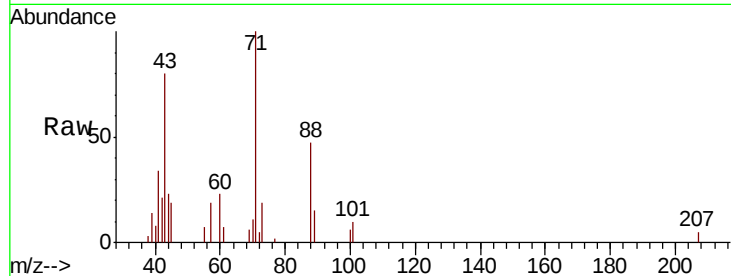
Tot Ion: 69 Resp: 634

Ion Ratio Lower Upper

69 100

41 742.7 48.3 72.5#

39 311.5 24.0 36.0#



#59

2-Hexanone

Concen: 4.00 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050960.D

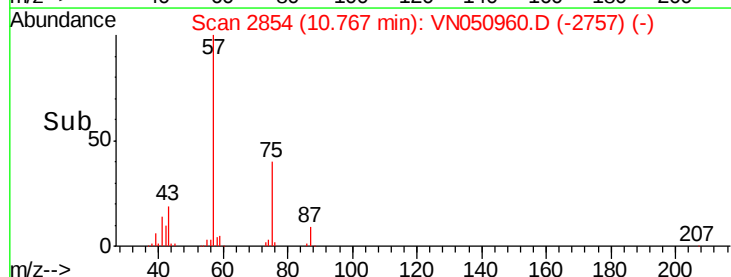
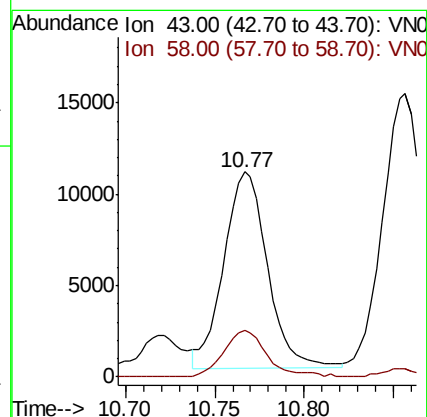
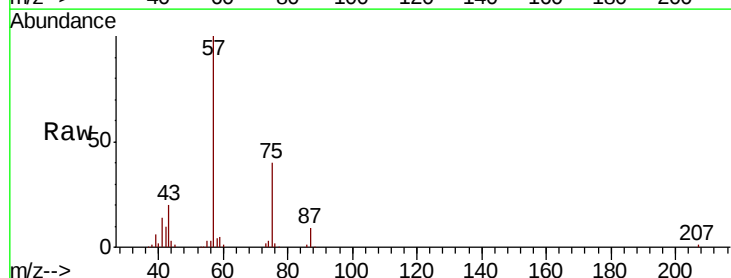
Acq: 30 Aug 2018 14:12

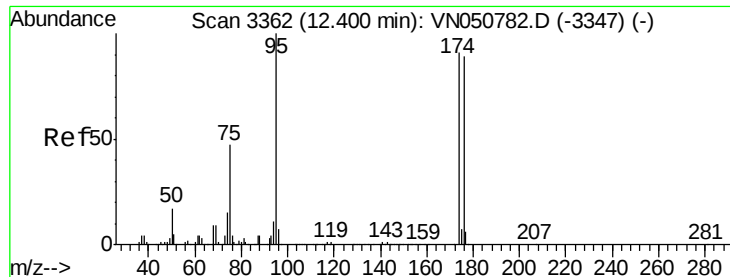
Tgt Ion: 43 Resp: 18115

Ion Ratio Lower Upper

43 100

58 23.6 28.3 85.0#





#62

4-Bromofluorobenzene

Concen: 36.23 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050960.D

Acq: 30 Aug 2018 14:12

Instrument :

MSVOA_N

ClientSampleId :

PB112481ZHE#04

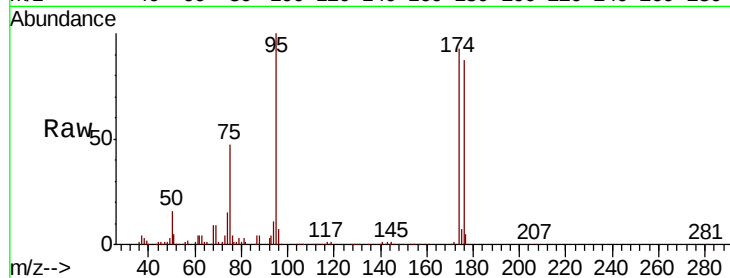
Tot Ion: 95 Resp: 349929

Ion Ratio Lower Upper

95 100

174 92.2 0.0 183.0

176 89.3 0.0 178.8

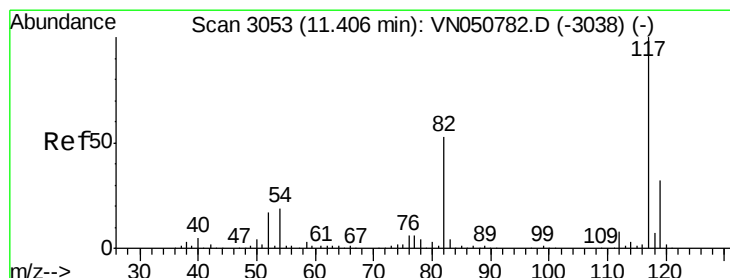
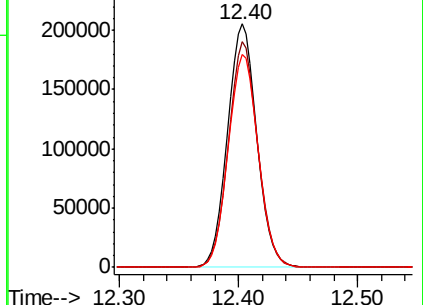
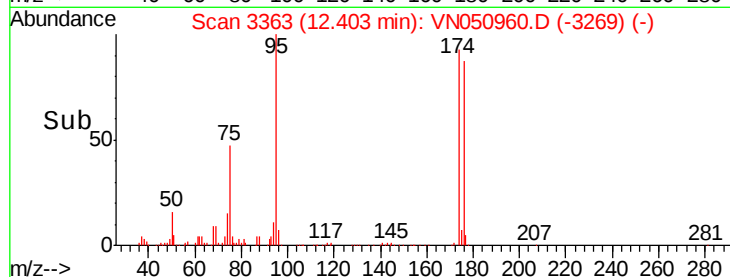


Abundance Ion 94.90 (94.60 to 95.60): VN050782.D (-3347) (-)

Ion 173.80 (173.50 to 174.50): VN050782.D (-3347) (-)

Ion 175.80 (175.50 to 176.50): VN050782.D (-3347) (-)

12.40



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN050960.D

Acq: 30 Aug 2018 14:12

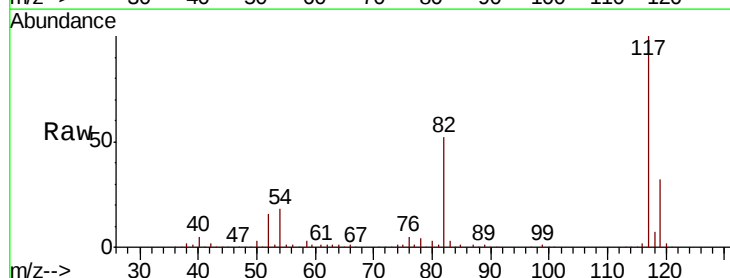
Tgt Ion: 117 Resp: 815314

Ion Ratio Lower Upper

117 100

82 52.0 42.6 64.0

119 32.0 25.8 38.6

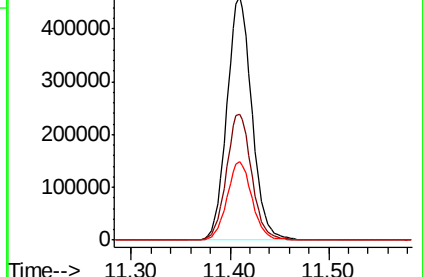
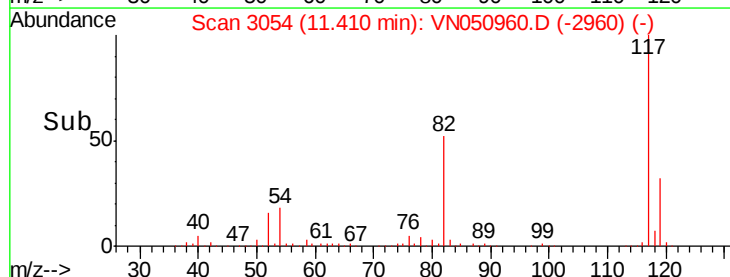


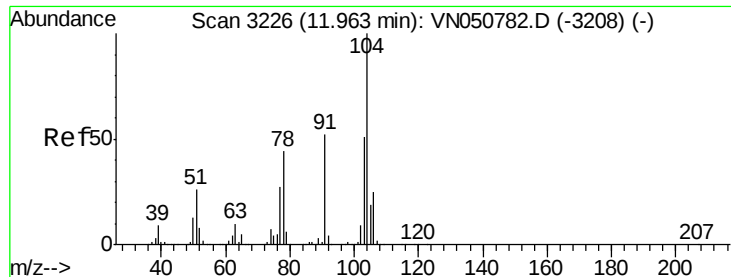
Abundance Ion 116.90 (116.60 to 117.60): VN050782.D (-3038) (-)

Ion 82.00 (81.70 to 82.70): VN050782.D (-3038) (-)

Ion 118.90 (118.60 to 119.60): VN050782.D (-3038) (-)

11.41

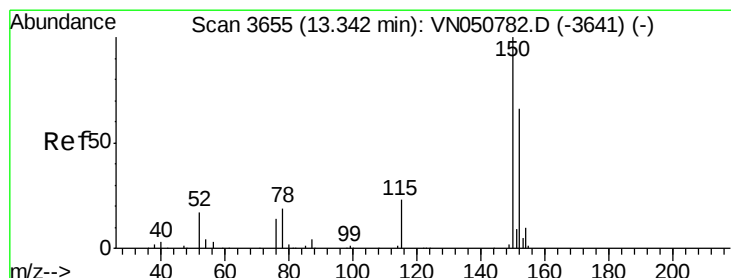
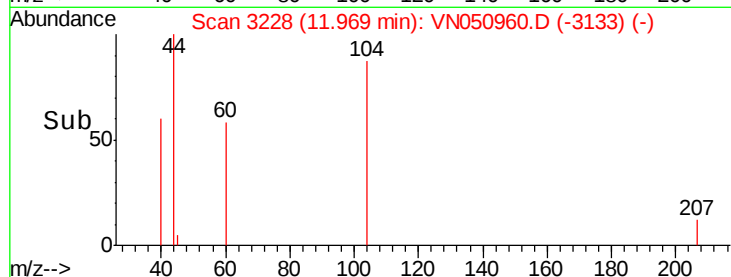
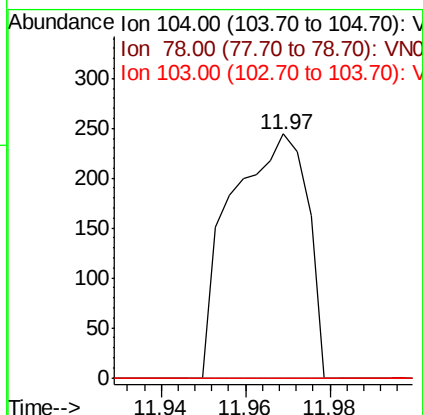
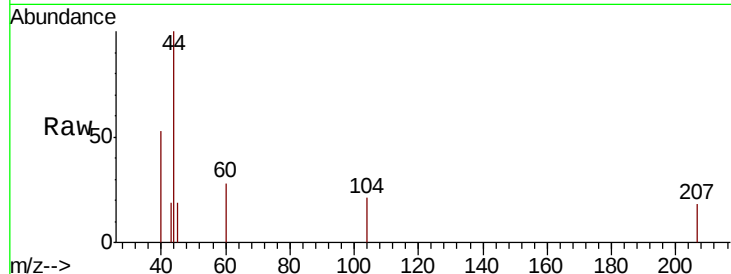




#70
Stvrene
Concen: 1.28 ug/l
RT: 11.97 min Scan# 3228
Delta R.T. 0.01 min
Lab File: VN050960.D
Acq: 30 Aug 2018 14:12

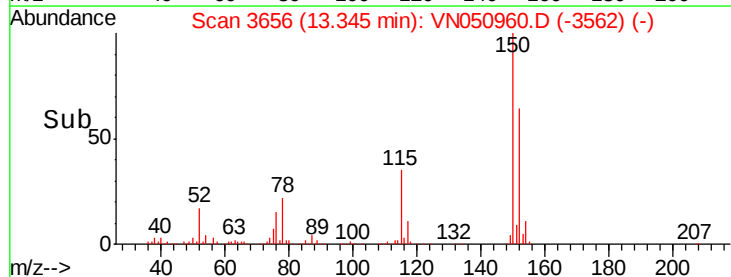
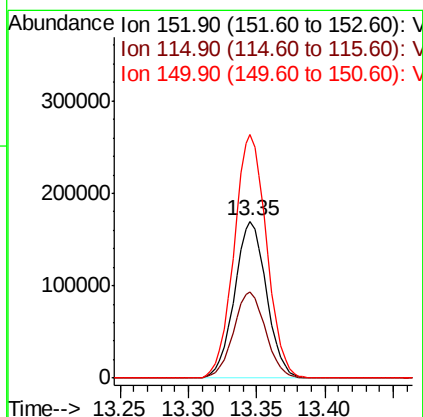
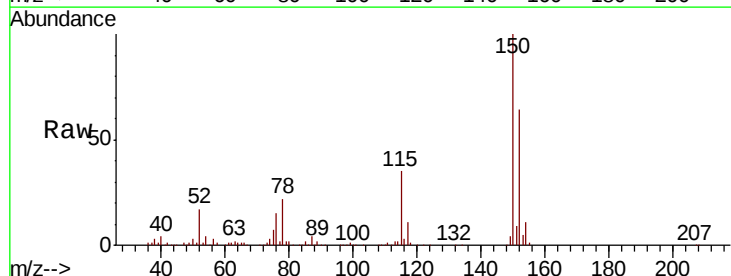
Instrument :
MSVOA_N
ClientSampleId :
PB112481ZHE#04

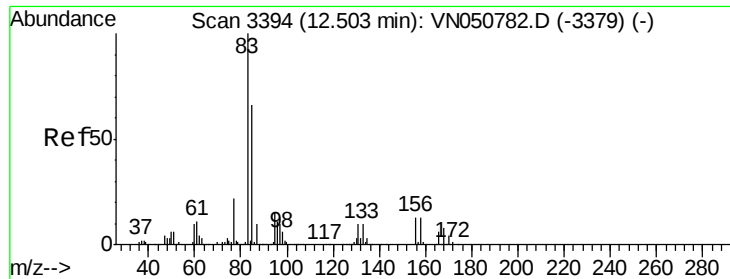
Tot Ion:104 Resp: 307
Ion Ratio Lower Upper
104 100
78 0.0 38.2 57.4#
103 0.0 44.4 66.6#



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN050960.D
Acq: 30 Aug 2018 14:12

Tgt Ion:152 Resp: 275548
Ion Ratio Lower Upper
152 100
115 55.2 27.8 83.4
150 157.8 0.0 351.4





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.41 min Scan# 3366

Delta R.T. -0.09 min

Lab File: VN050960.D

Acq: 30 Aug 2018 14:12

Instrument :

MSVOA_N

ClientSampleId :

PB112481ZHE#04

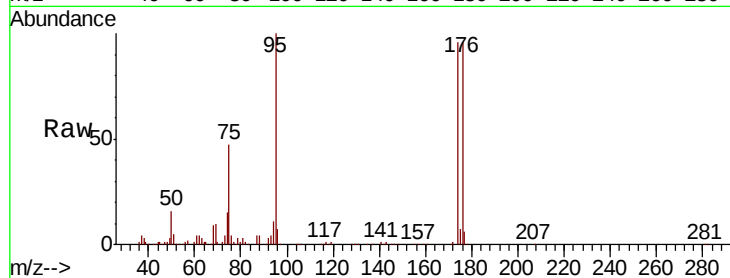
Tot Ion: 83 Resp: 58

Ion Ratio Lower Upper

83 100

131 539.7 5.3 15.9#

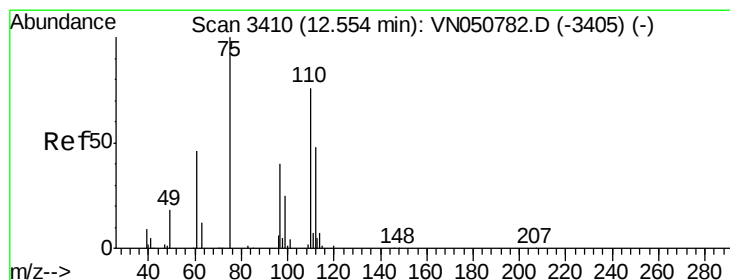
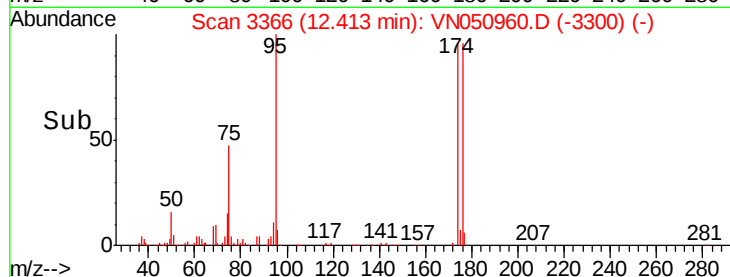
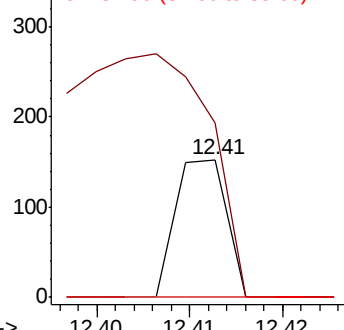
85 0.0 31.9 95.7#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 34.21 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050960.D

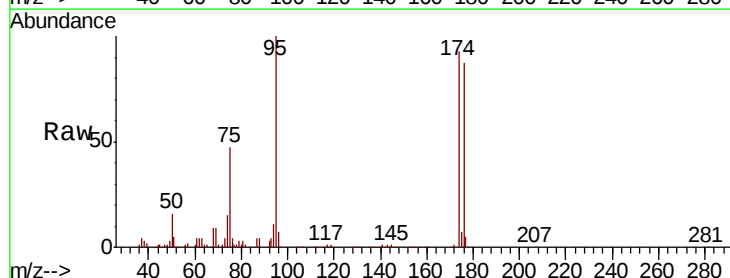
Acq: 30 Aug 2018 14:12

Tgt Ion: 75 Resp: 165127

Ion Ratio Lower Upper

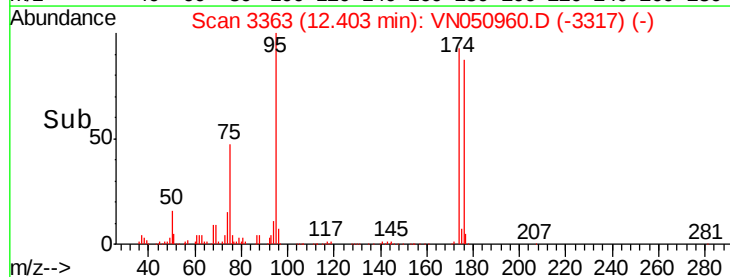
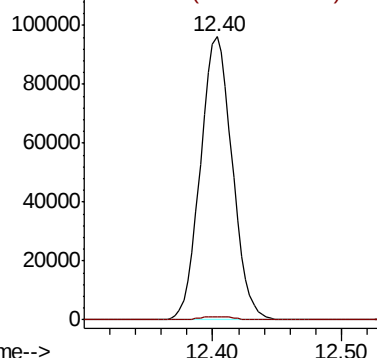
75 100

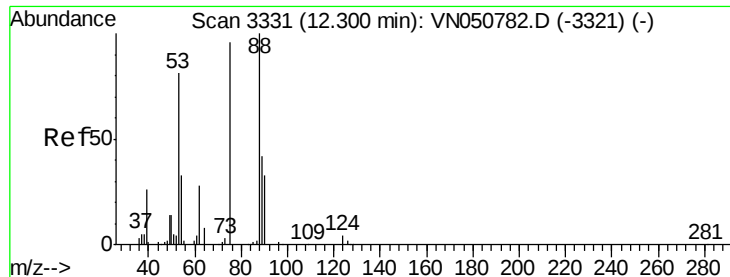
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 115.66 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050960.D

Acq: 30 Aug 2018 14:12

Instrument :

MSVOA_N

ClientSampleId :

PB112481ZHE#04

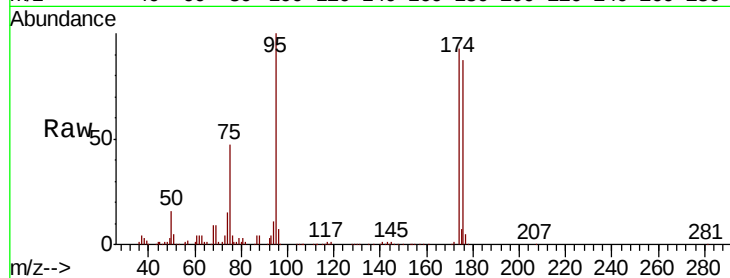
Tot Ion: 75 Resp: 165127

Ion Ratio Lower Upper

75 100

53 0.2 68.9 103.3#

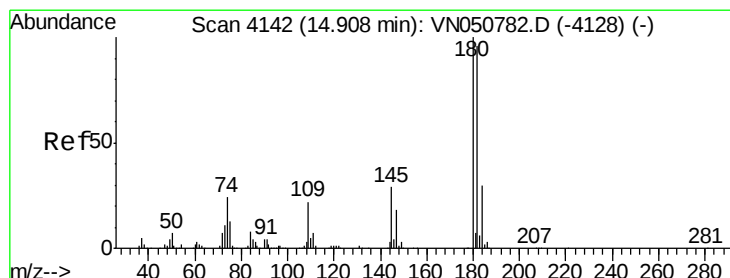
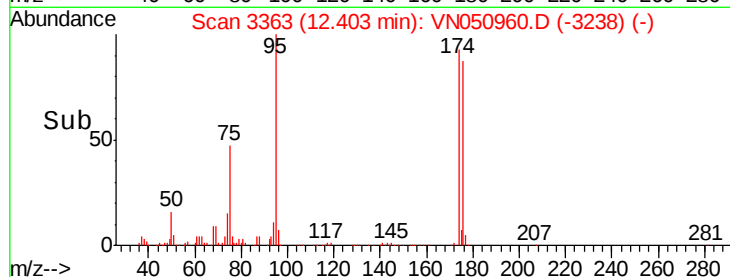
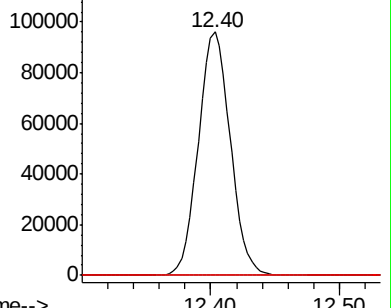
89 0.0 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VN050782.D (-3321) (-)

Ion 53.00 (52.70 to 53.70): VN050782.D (-3321) (-)

Ion 88.90 (88.60 to 89.60): VN050782.D (-3321) (-)



#93

1,2,4-Trichlorobenzene

Concen: 4.10 ug/l

RT: 14.90 min Scan# 4140

Delta R.T. -0.01 min

Lab File: VN050960.D

Acq: 30 Aug 2018 14:12

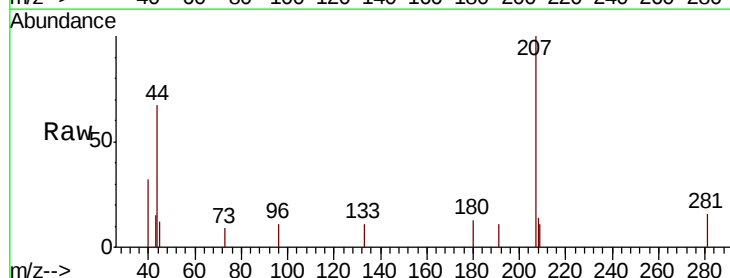
Tgt Ion: 180 Resp: 118

Ion Ratio Lower Upper

180 100

182 26.3 48.2 144.6#

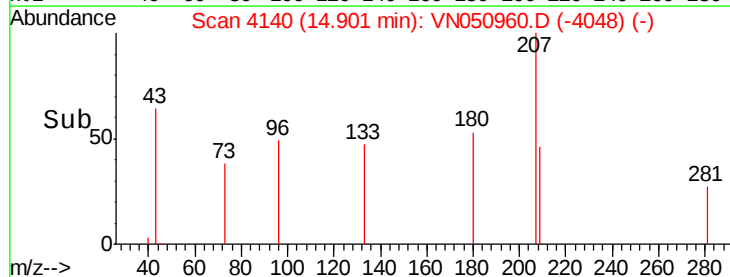
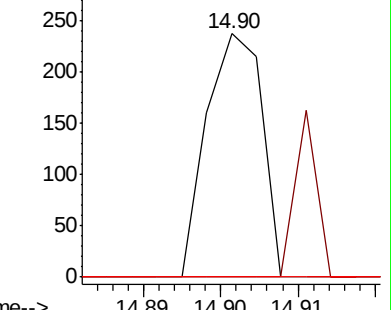
145 0.0 14.1 42.2#

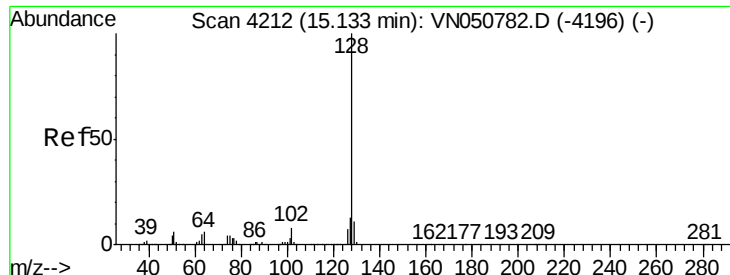


Abundance Ion 179.80 (179.50 to 180.50): VN050782.D (-4128) (-)

Ion 181.80 (181.50 to 182.50): VN050782.D (-4128) (-)

Ion 144.80 (144.50 to 145.50): VN050782.D (-4128) (-)





#95

Naphthalene

Concen: 5.43 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050960.D

Acq: 30 Aug 2018 14:12

Instrument :

MSVOA_N

ClientSampleId :

PB112481ZHE#04

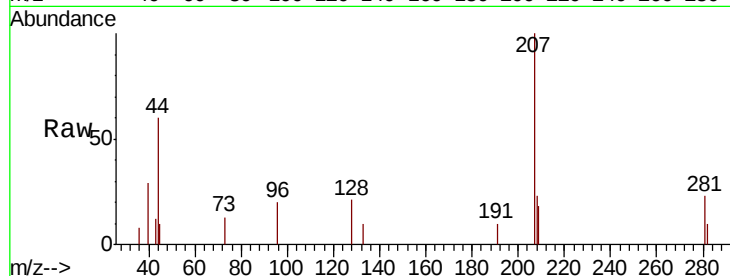
Tot Ion:128 Resp: 428

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

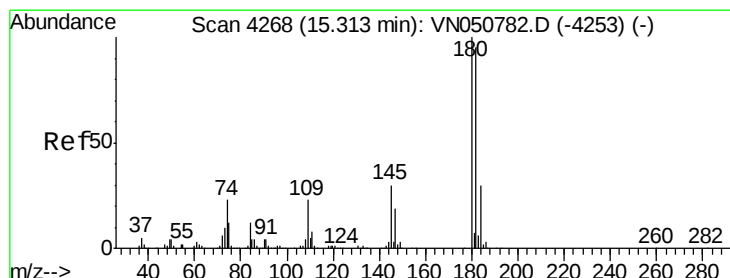
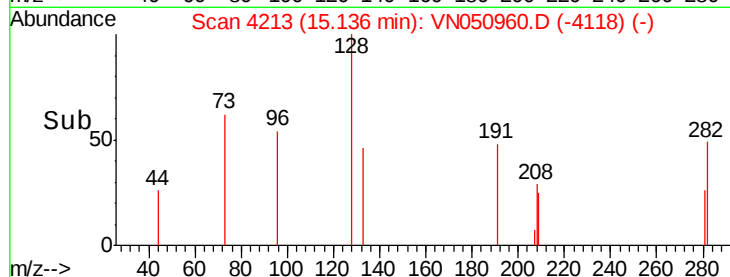
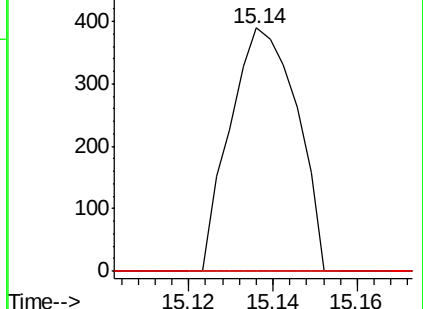
129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 3.31 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. 0.00 min

Lab File: VN050960.D

Acq: 30 Aug 2018 14:12

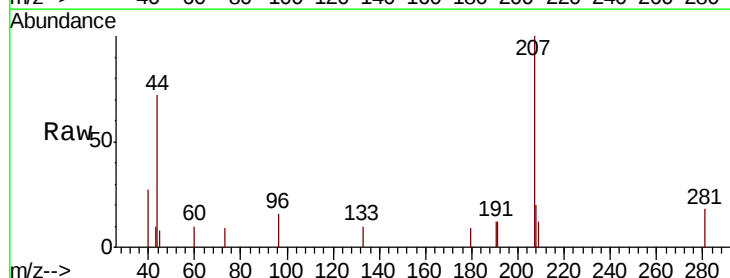
Tgt Ion:180 Resp: 61

Ion Ratio Lower Upper

180 100

182 103.3 48.0 144.2

145 0.0 15.2 45.6#



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

