

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050619\
 Data File : VN055411.D
 Acq On : 6 May 2019 11:59
 Operator : JC/SP
 Sample : PB119463TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB119463TB

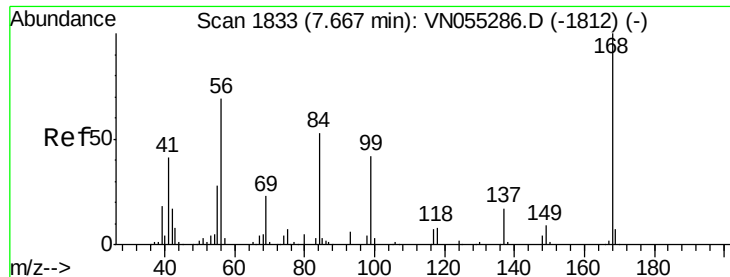
Quant Time: May 07 01:17:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 30 07:16:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	511842	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	879803	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	824251	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	264086	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	356044	53.17	ug/l	0.00
Spiked Amount			Recovery	=	106.34%	
35) Dibromofluoromethane	7.59	113	288904	50.03	ug/l	0.00
Spiked Amount			Recovery	=	100.06%	
50) Toluene-d8	10.09	98	1098639	52.69	ug/l	0.00
Spiked Amount			Recovery	=	105.38%	
62) 4-Bromofluorobenzene	12.40	95	373810	57.36	ug/l	0.00
Spiked Amount			Recovery	=	114.72%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	11007	5.276	ug/l	94
18) Methyl Acetate	4.34	43	1582	Below Cal	#	75
20) Methylene Chloride	4.55	84	6483	1.018	ug/l #	93
29) Tetrahydrofuran	7.21	42	1206	0.706	ug/l #	50
31) Cyclohexane	7.66	56	10373	0.985	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	39817	4.725	ug/l #	50
38) Carbon Tetrachloride	7.67	117	45927	5.650	ug/l #	17
41) Methacrylonitrile	7.21	41	508	0.883	ug/l #	40
43) Isopropyl Acetate	8.17	43	13006	1.253	ug/l #	88
48) Methyl methacrylate	9.18	41	6358	1.246	ug/l #	18
49) 1,4-Dioxane	9.26	88	100	1.896	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	7608	1.302	ug/l #	39
54) cis-1,3-Dichloropropene	9.90	75	44629	4.908	ug/l #	68
57) 1,3-Dichloropropane	10.76	76	9033	0.973	ug/l #	43
58) 2-Chloroethyl Vinyl ether	9.91	63	61	12.434	ug/l #	52
59) 2-Hexanone	10.76	43	152915	41.821	ug/l #	53
73) Isopropylbenzene	12.25	105	307	Below Cal	#	49
75) 1,1,2,2-Tetrachloroethane	12.40	83	103	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	194131	38.994	ug/l #	100
79) 2-Chlorotoluene	12.66	91	93	Below Cal	#	42
80) 1,3,5-Trimethylbenzene	12.73	105	11061	0.534	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	194131	139.307	ug/l #	7
83) tert-Butylbenzene	12.99	119	111	Below Cal	#	25
93) 1,2,4-Trichlorobenzene	14.90	180	69	3.329	ug/l #	87
95) Naphthalene	15.13	128	61	3.336	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055411.D

Acq: 6 May 2019 11:59

Instrument :

MSVOA_N

ClientSampleId :

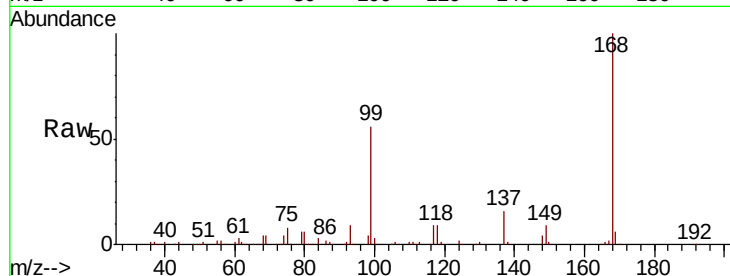
PB119463TB

Tot Ion:168 Resp: 511842

Ion Ratio Lower Upper

168 100

99 55.9 43.6 65.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

200000

150000

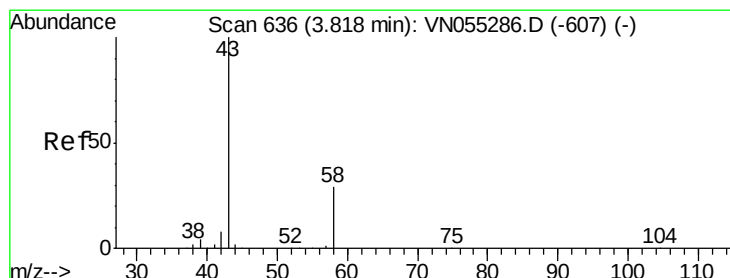
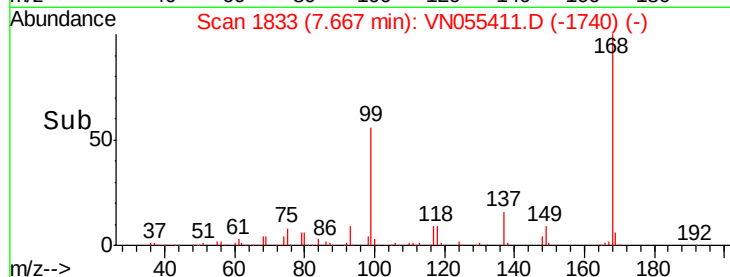
100000

50000

0

7.60 7.70 7.80

Time-->



#16

Acetone

Concen: 5.276 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN055411.D

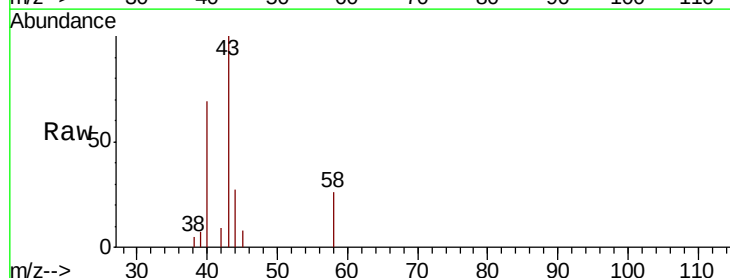
Acq: 6 May 2019 11:59

Tgt Ion: 43 Resp: 11007

Ion Ratio Lower Upper

43 100

58 26.1 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.82

4000

3000

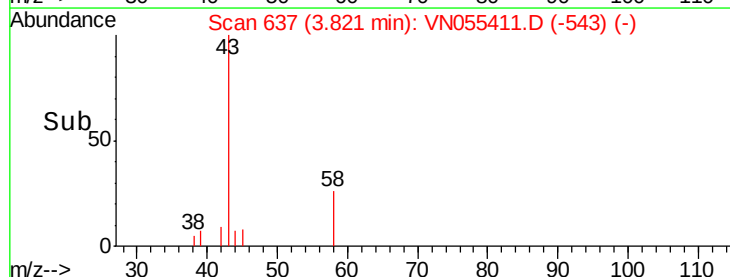
2000

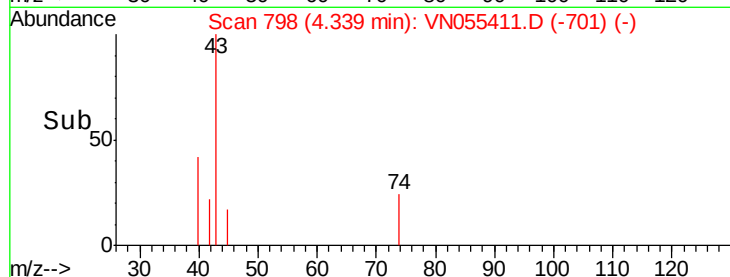
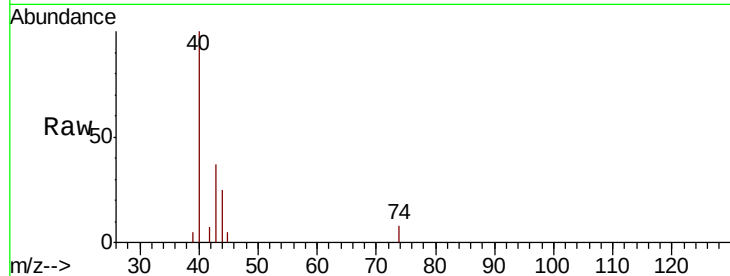
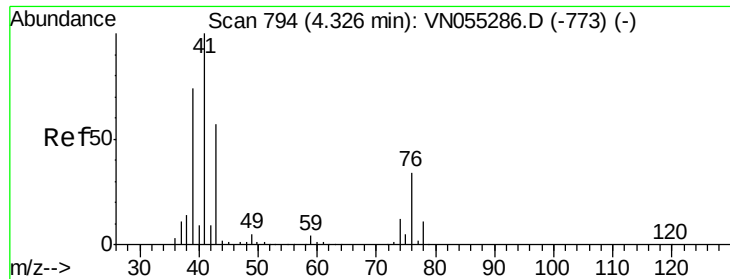
1000

0

3.75 3.80 3.85 3.90

Time-->

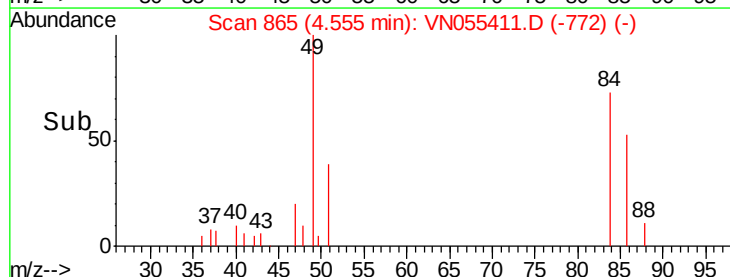
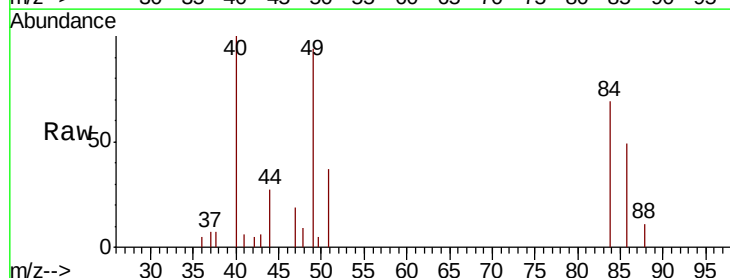
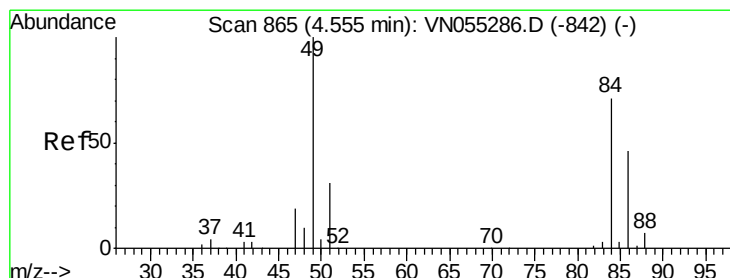
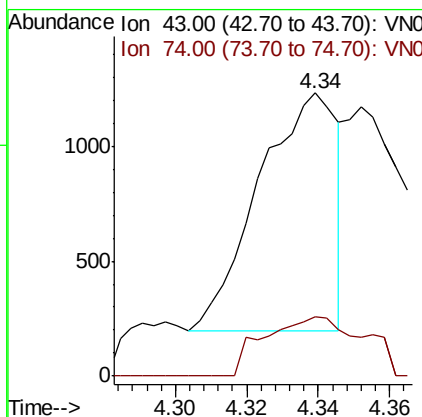




#18
Methyl Acetate
Concen: Below Cal
RT: 4.34 min Scan# 798
Delta R.T. 0.01 min
Lab File: VN055411.D
Acq: 6 May 2019 11:59

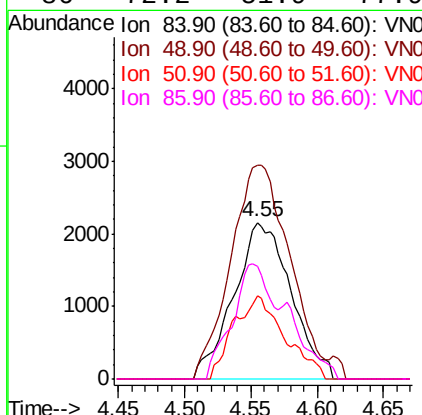
Instrument :
MSVOA_N
ClientSampled :
PB119463TB

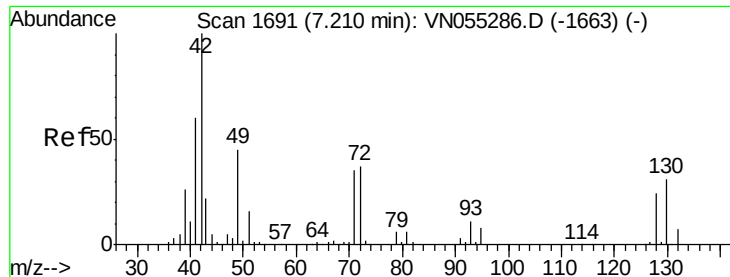
Tot Ion: 43 Resp: 1582
Ion Ratio Lower Upper
43 100
74 31.3 15.8 23.8#



#20
Methylene Chloride
Concen: 1.018 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN055411.D
Acq: 6 May 2019 11:59

Tgt Ion: 84 Resp: 6483
Ion Ratio Lower Upper
84 100
49 136.7 112.4 168.6
51 53.5 34.6 51.8#
86 72.2 51.9 77.9





#29

Tetrahydrofuran

Concen: 0.706 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. 0.00 min

Lab File: VN055411.D

Acq: 6 May 2019 11:59

Instrument :

MSVOA_N

ClientSampleId :

PB119463TB

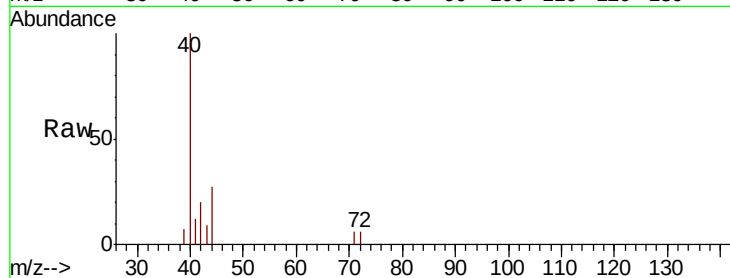
Tot Ion: 42 Resp: 1206

Ion Ratio Lower Upper

42 100

72 0.0 29.0 43.6#

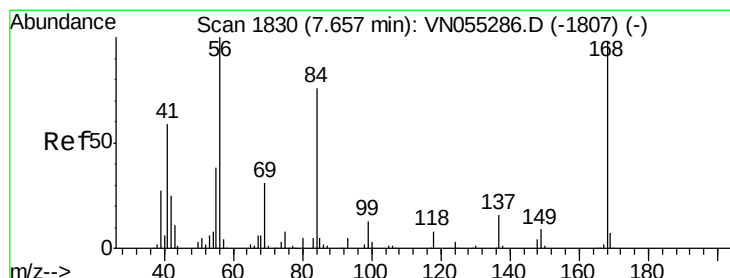
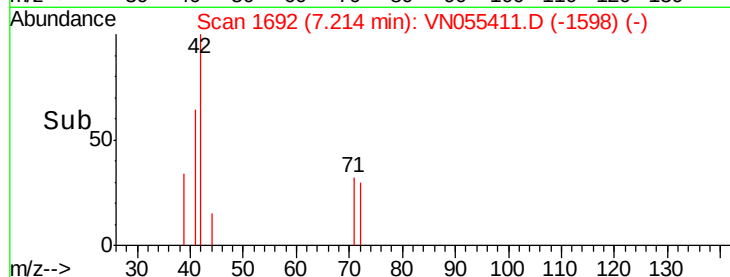
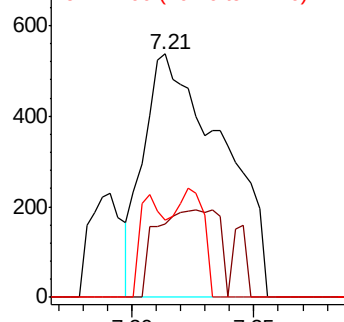
71 12.7 27.1 40.7#



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: 0.985 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN055411.D

Acq: 6 May 2019 11:59

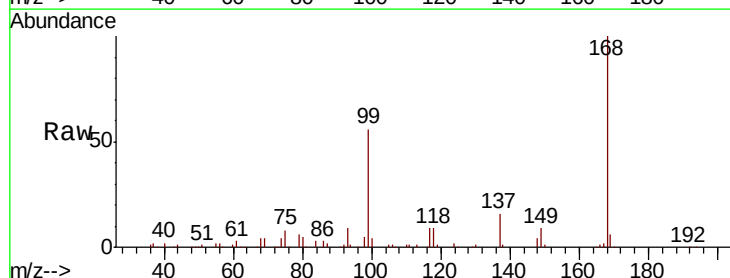
Tgt Ion: 56 Resp: 10373

Ion Ratio Lower Upper

56 100

69 181.1 25.2 37.8#

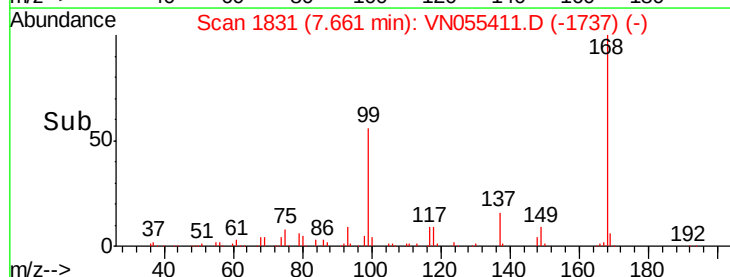
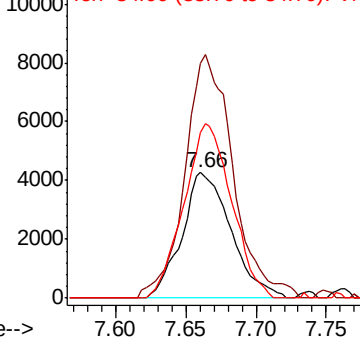
84 131.9 61.1 91.7#

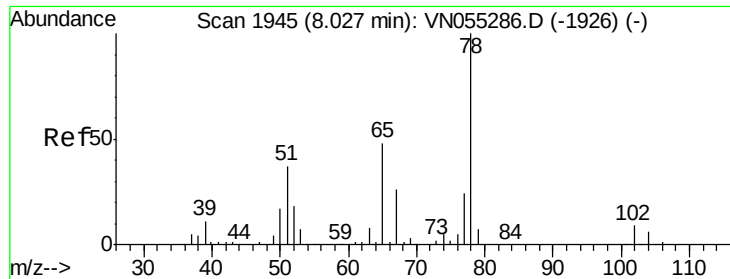


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

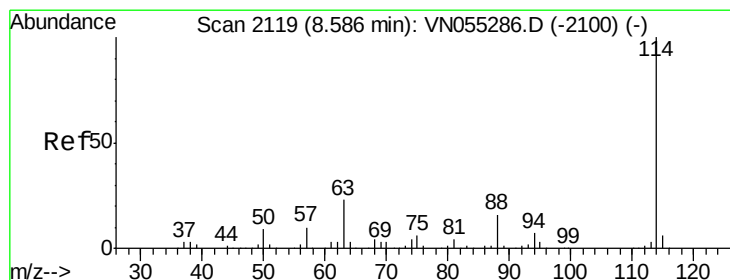
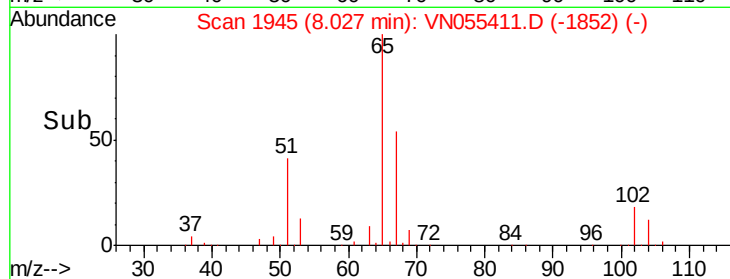
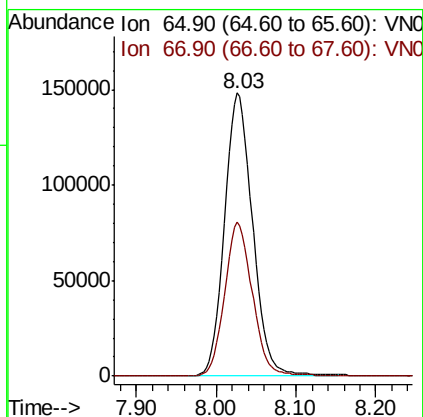
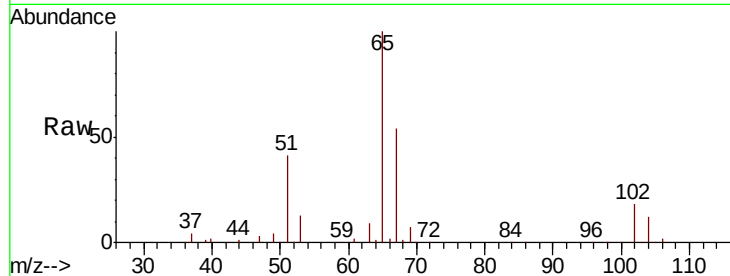




#33
 1,2-Dichloroethane-d4
 Concen: 53.172 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055411.D
 Acq: 6 May 2019 11:59

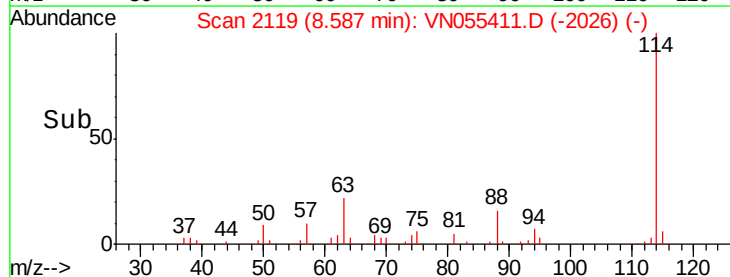
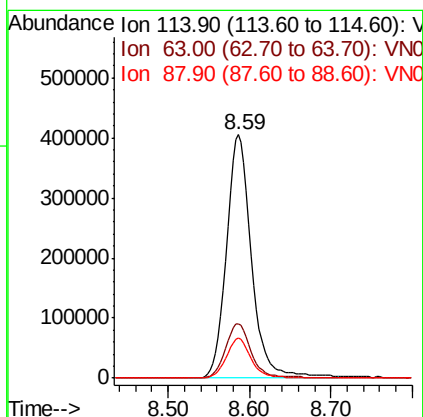
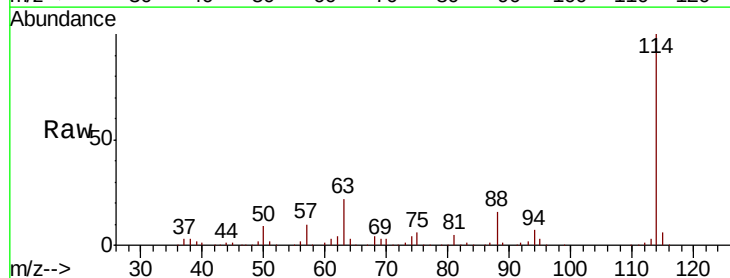
Instrument :
 MSVOA_N
 ClientSampleId :
 PB119463TB

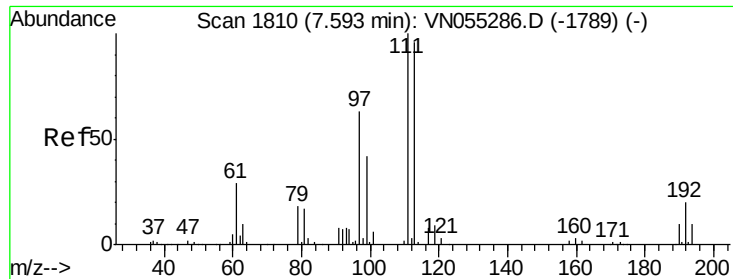
Tot Ion: 65 Resp: 356044
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055411.D
 Acq: 6 May 2019 11:59

Tgt Ion: 114 Resp: 879803
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 45.2
 88 16.4 0.0 31.6

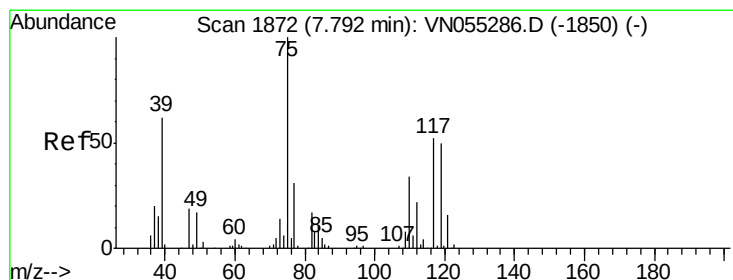
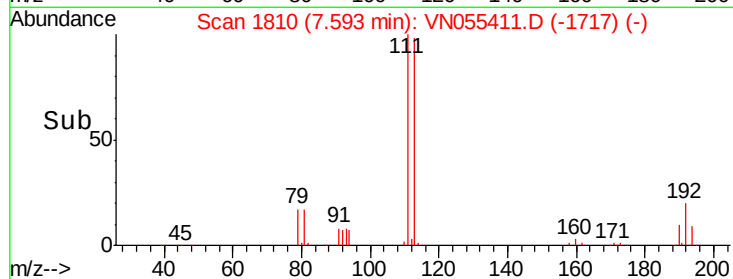
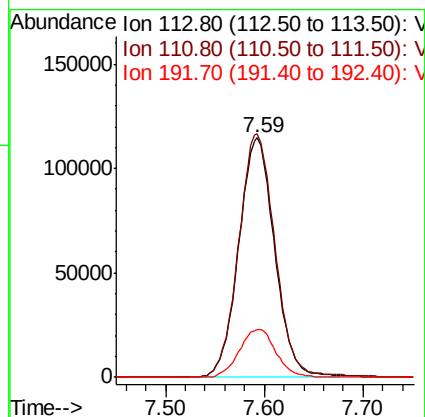
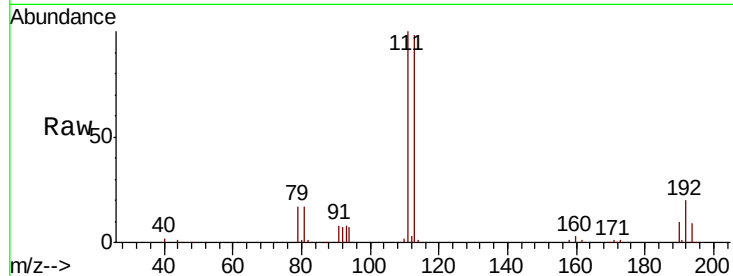




#35
 Dibromofluoromethane
 Concen: 50.029 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN055411.D
 Acq: 6 May 2019 11:59

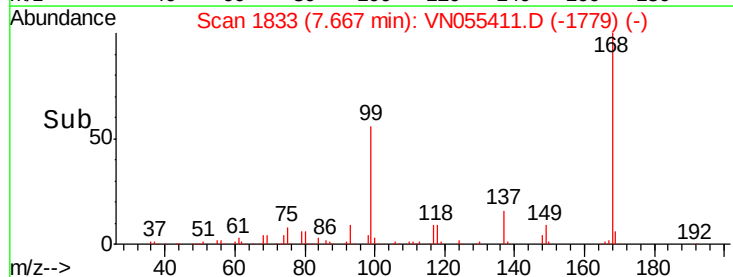
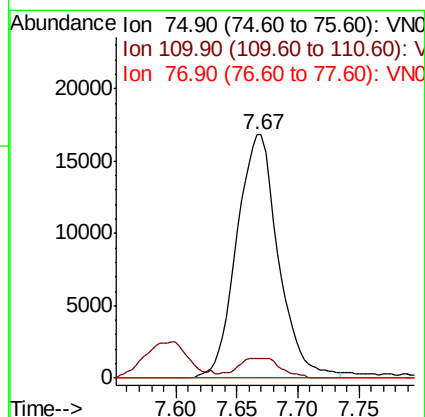
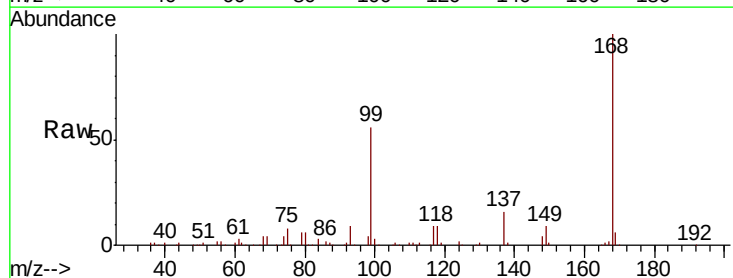
Instrument :
 MSVOA_N
 ClientSampleId :
 PB119463TB

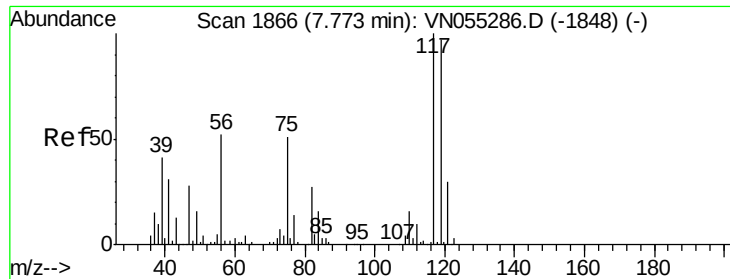
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.3	123.5
192	20.3	17.0	25.6



#36
 1,1-Dichloropropene
 Concen: 4.725 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN055411.D
 Acq: 6 May 2019 11:59

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	16.8	50.4#
77	0.0	25.0	37.6#





#38

Carbon Tetrachloride

Concen: 5.650 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN055411.D

Acq: 6 May 2019 11:59

Instrument :

MSVOA_N

ClientSampled :

PB119463TB

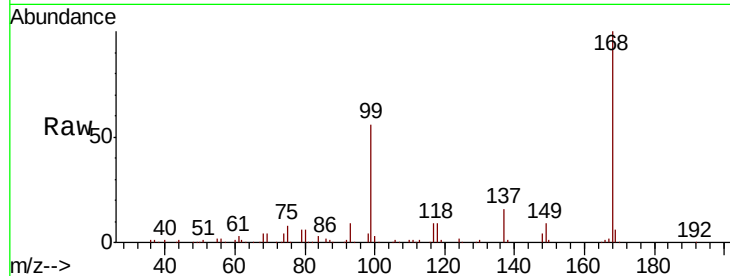
Tot Ion:117 Resp: 45927

Ion Ratio Lower Upper

117 100

119 6.4 77.0 115.6#

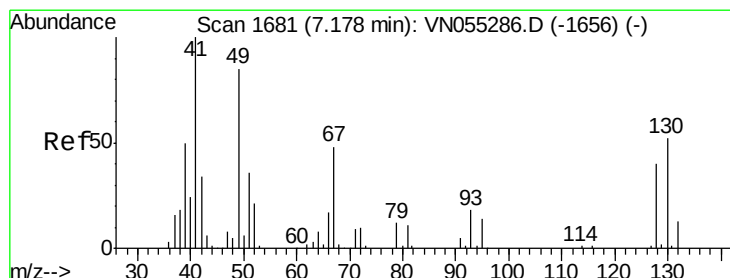
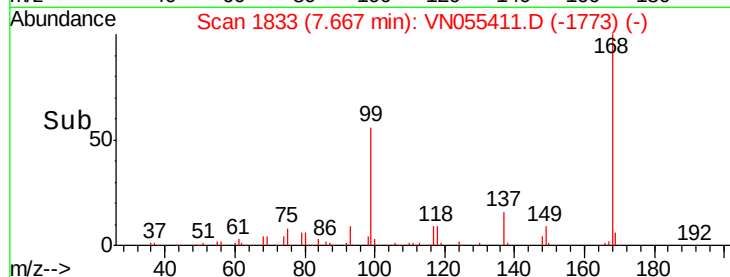
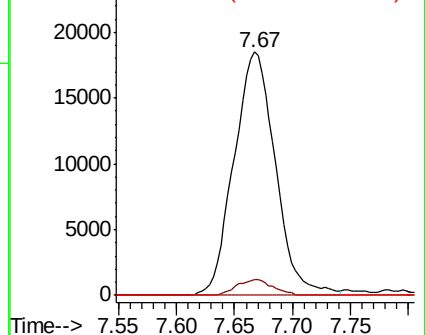
121 0.0 23.8 35.8#



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



#41

Methacrylonitrile

Concen: 0.883 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. 0.04 min

Lab File: VN055411.D

Acq: 6 May 2019 11:59

Tgt Ion: 41 Resp: 508

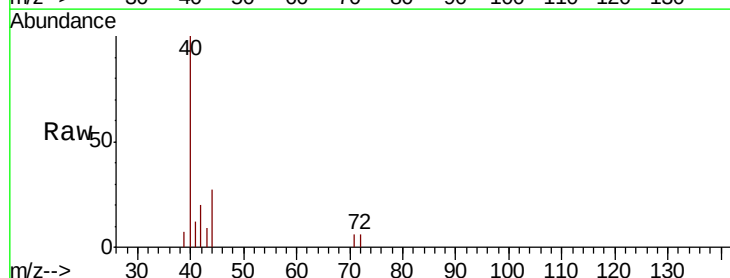
Ion Ratio Lower Upper

41 100

39 85.6 48.5 72.7#

67 0.0 54.9 82.3#

52 0.0 24.9 37.3#

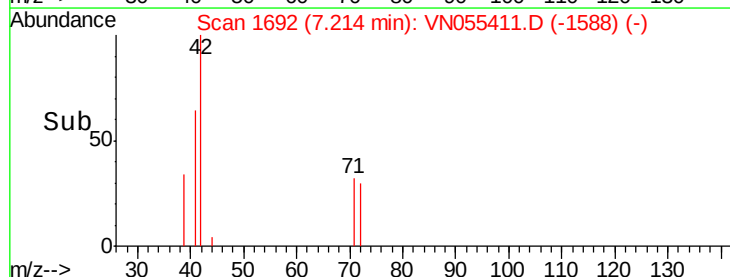
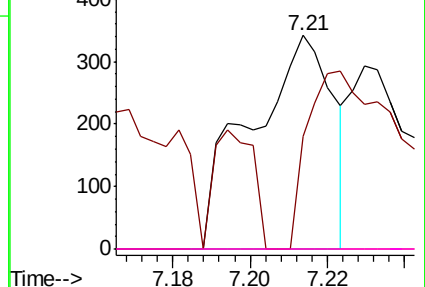


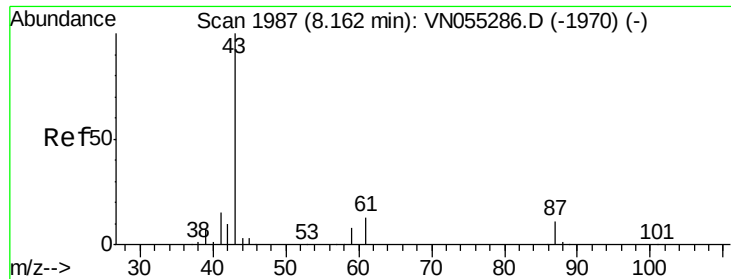
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 1.253 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN055411.D

Acq: 6 May 2019 11:59

Instrument :

MSVOA_N

ClientSampleId :

PB119463TB

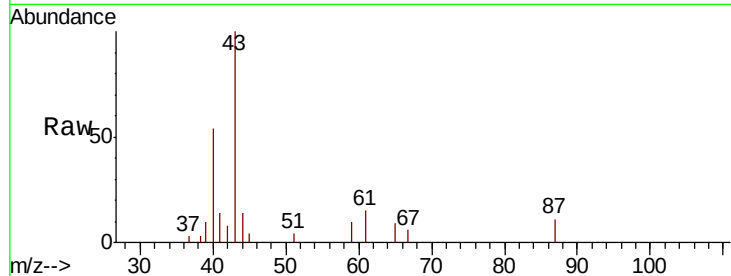
Tot Ion: 43 Resp: 13006

Ion Ratio Lower Upper

43 100

61 17.5 20.8 31.2#

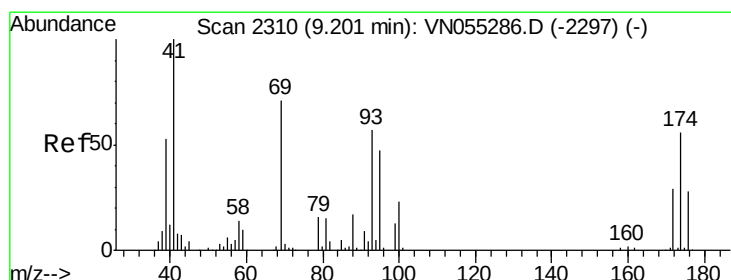
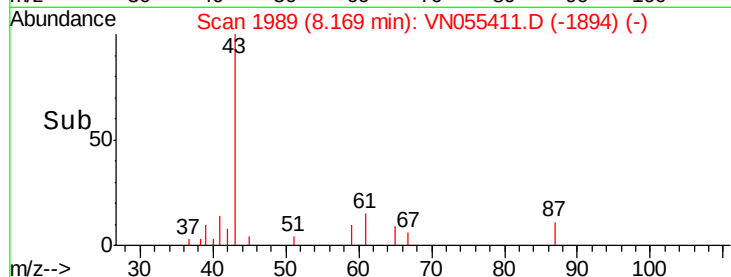
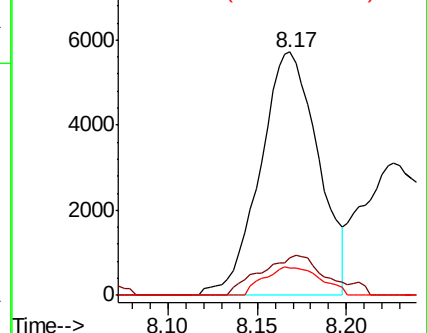
87 11.2 8.5 12.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#48

Methyl methacrylate

Concen: 1.246 ug/l

RT: 9.18 min Scan# 2305

Delta R.T. -0.02 min

Lab File: VN055411.D

Acq: 6 May 2019 11:59

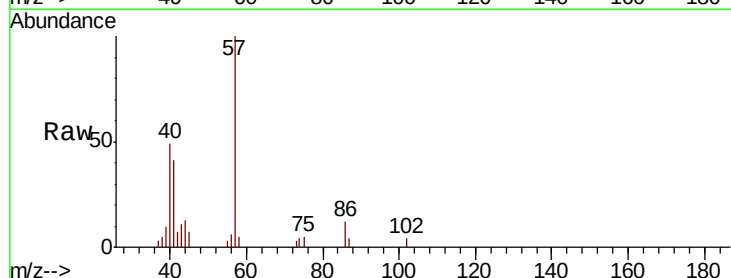
Tgt Ion: 41 Resp: 6358

Ion Ratio Lower Upper

41 100

69 0.0 58.6 87.8#

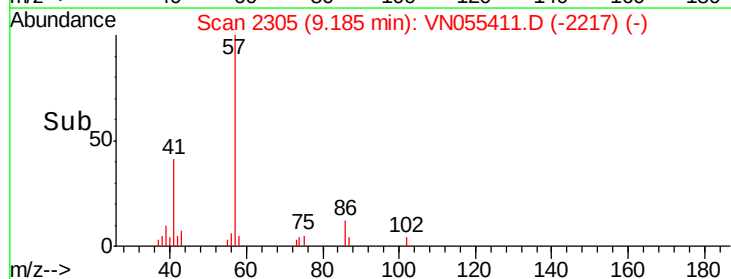
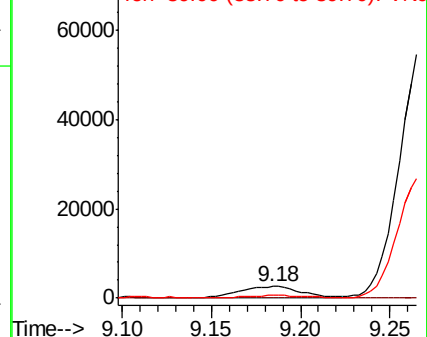
39 0.0 43.8 65.6#

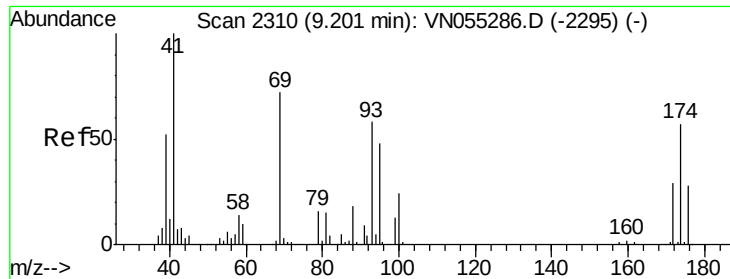


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#49

1,4-Dioxane

Concen: 1.896 ug/l

RT: 9.26 min Scan# 2330

Delta R.T. 0.06 min

Lab File: VN055411.D

Acq: 6 May 2019 11:59

Instrument :

MSVOA_N

ClientSampleId :

PB119463TB

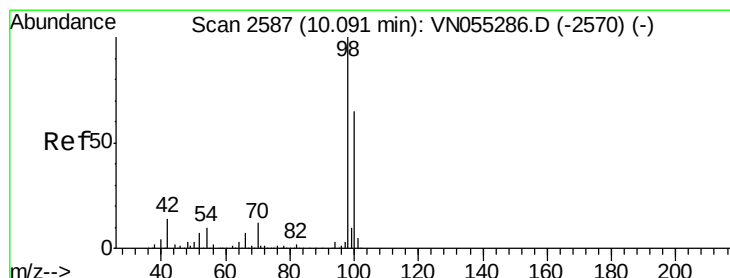
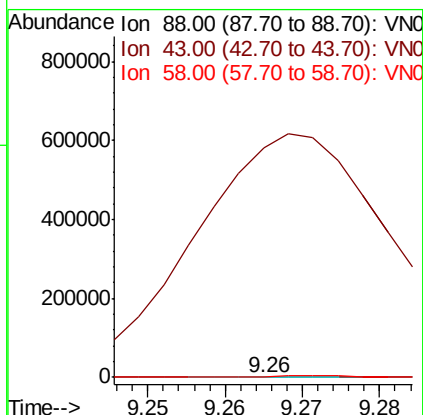
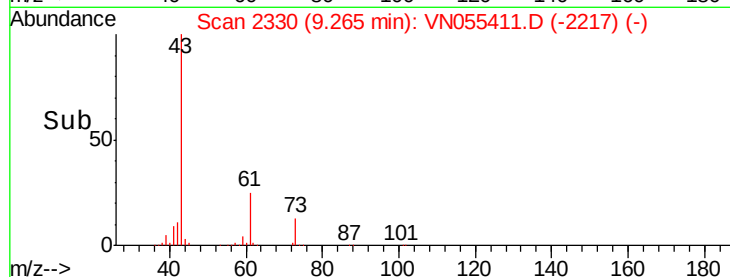
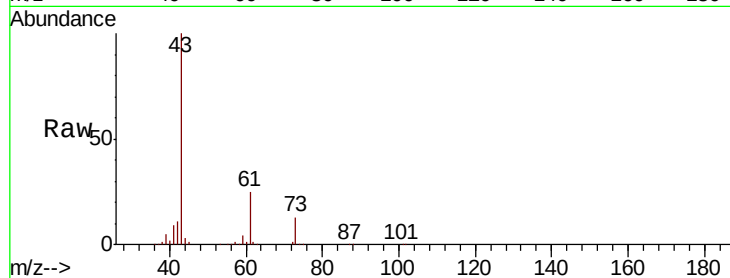
Tot Ion: 88 Resp: 100

Ion Ratio Lower Upper

88 100

43 1183553.0 33.3 49.9#

58 5600.0 62.7 94.1#



#50

Toluene-d8

Concen: 52.688 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055411.D

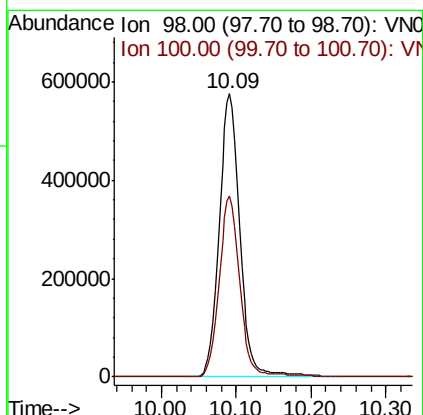
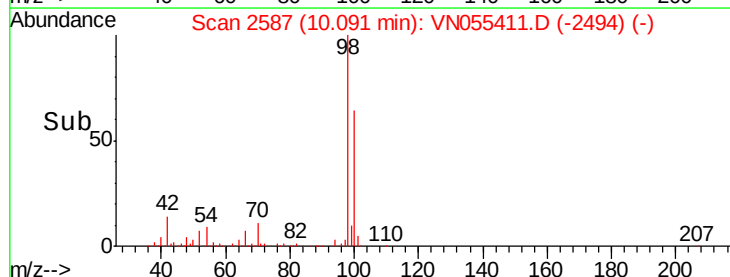
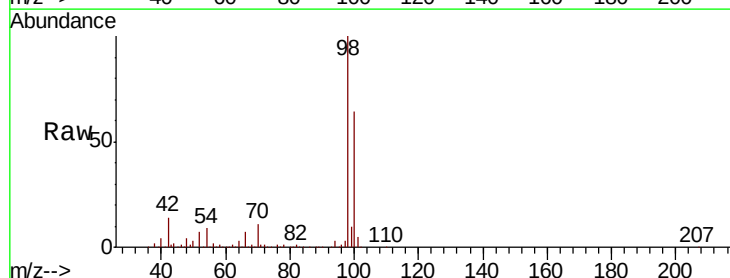
Acq: 6 May 2019 11:59

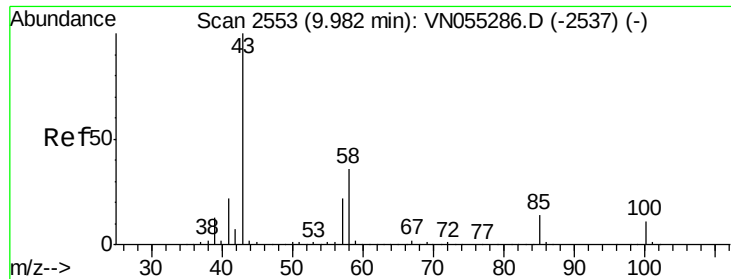
Tgt Ion: 98 Resp: 1098639

Ion Ratio Lower Upper

98 100

100 63.9 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 1.302 ug/l

RT: 10.02 min Scan# 2565

Delta R.T. 0.04 min

Lab File: VN055411.D

Acq: 6 May 2019 11:59

Instrument :

MSVOA_N

ClientSampled :

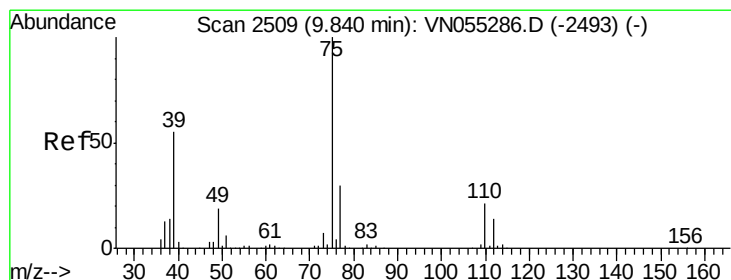
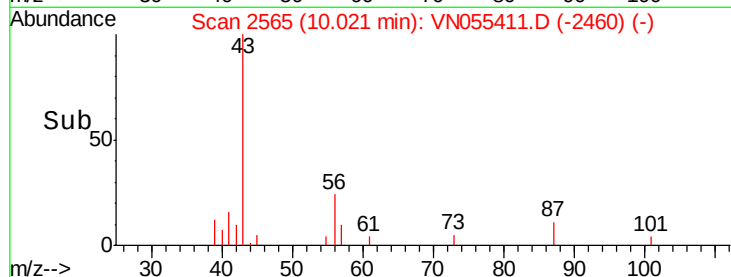
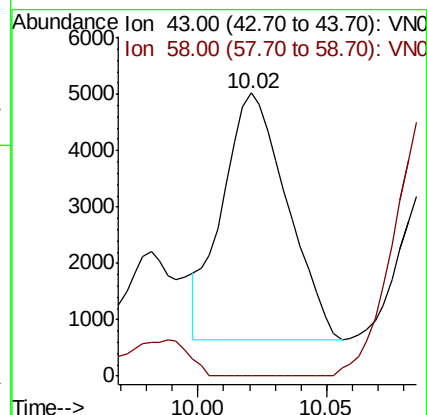
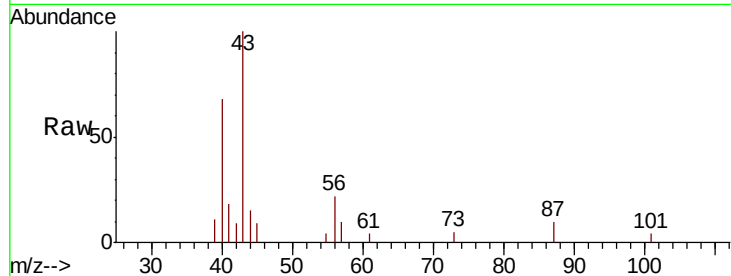
PB119463TB

Tot Ion: 43 Resp: 7608

Ion Ratio Lower Upper

43 100

58 0.0 28.5 42.7#



#54

cis-1,3-Dichloropropene

Concen: 4.908 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN055411.D

Acq: 6 May 2019 11:59

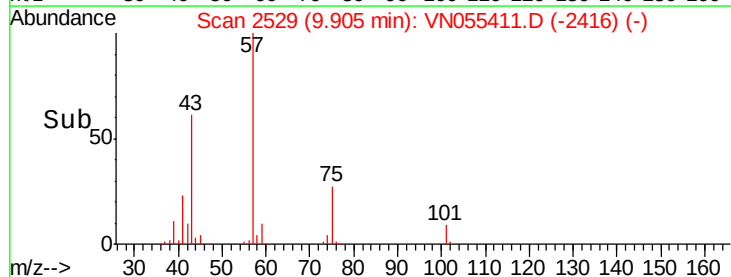
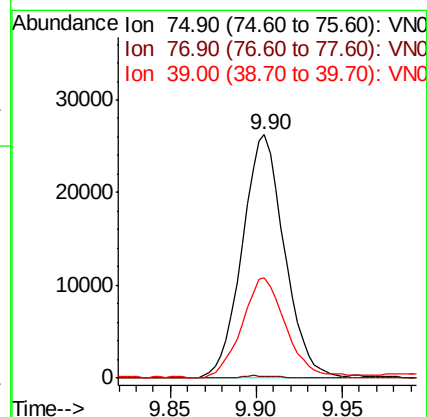
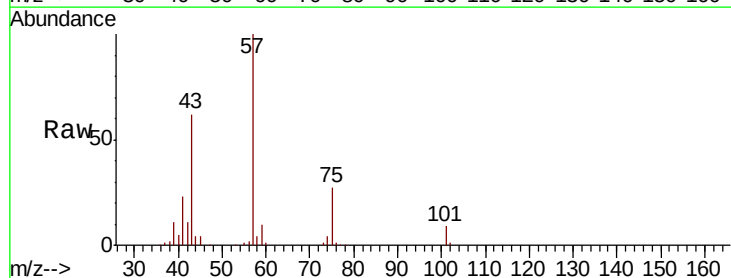
Tgt Ion: 75 Resp: 44629

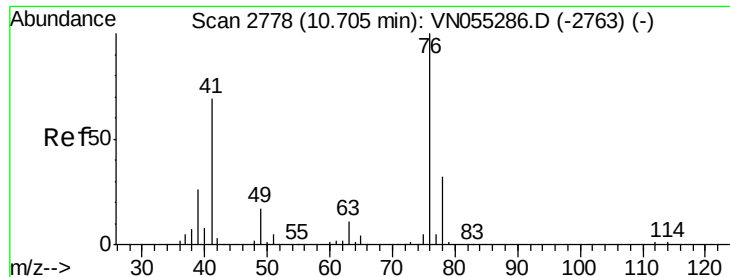
Ion Ratio Lower Upper

75 100

77 0.7 24.2 36.2#

39 41.0 44.2 66.2#





#57

1,3-Dichloropropane

Concen: 0.973 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN055411.D

Acq: 6 May 2019 11:59

Instrument :

MSVOA_N

ClientSampleId :

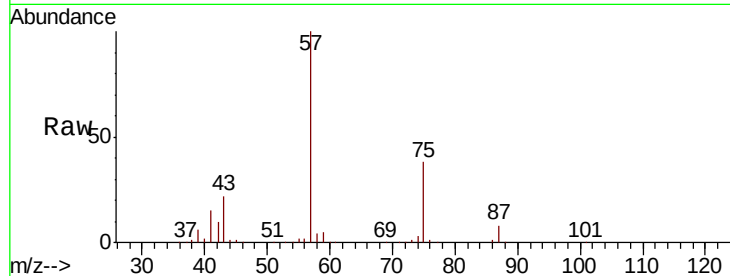
PB119463TB

Tot Ion: 76 Resp: 9033

Ion Ratio Lower Upper

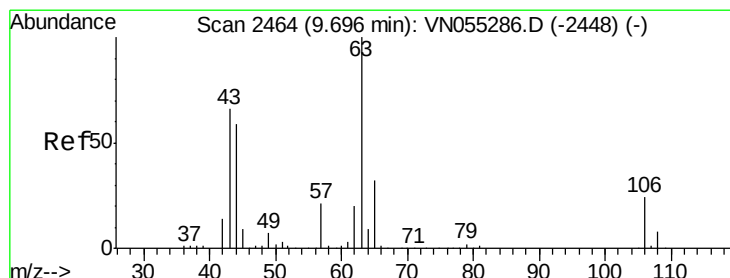
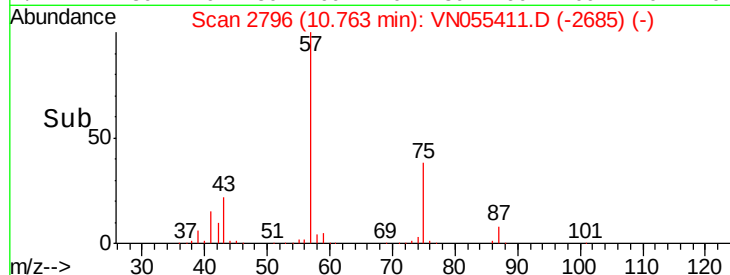
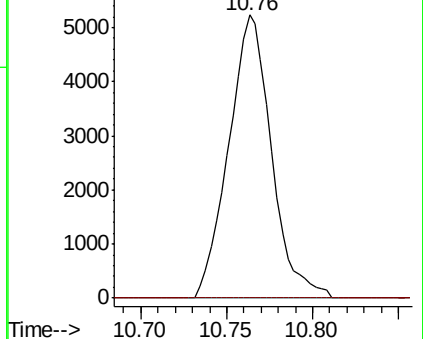
76 100

78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 12.434 ug/l

RT: 9.91 min Scan# 2530

Delta R.T. 0.21 min

Lab File: VN055411.D

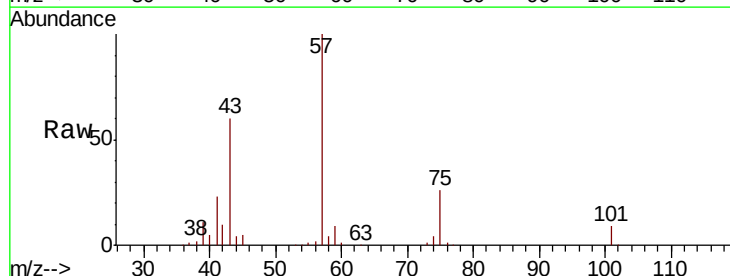
Acq: 6 May 2019 11:59

Tgt Ion: 63 Resp: 61

Ion Ratio Lower Upper

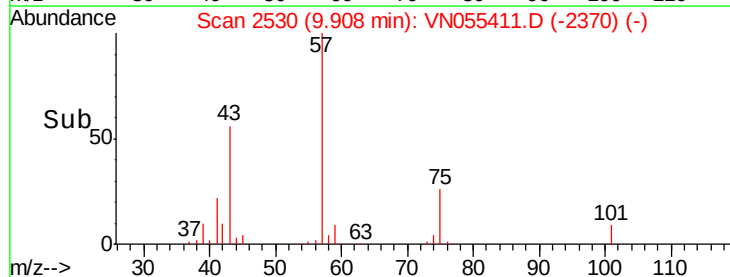
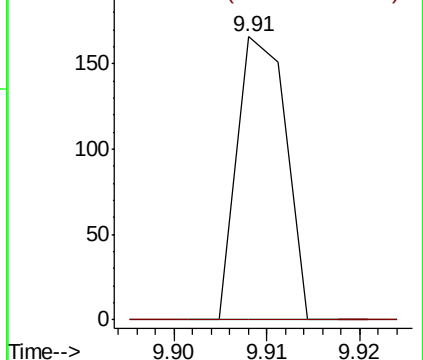
63 100

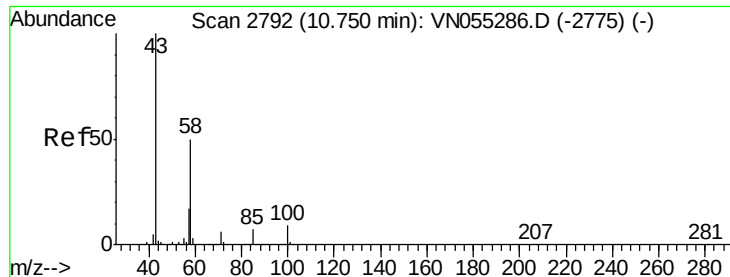
106 0.0 19.0 28.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

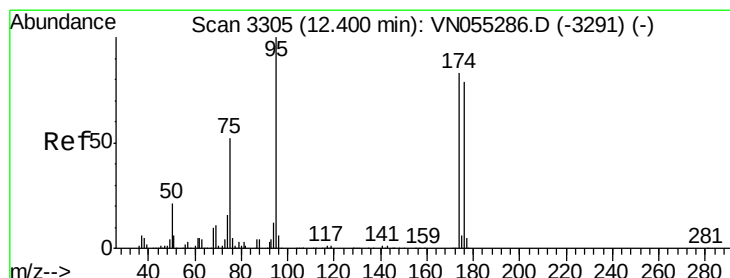
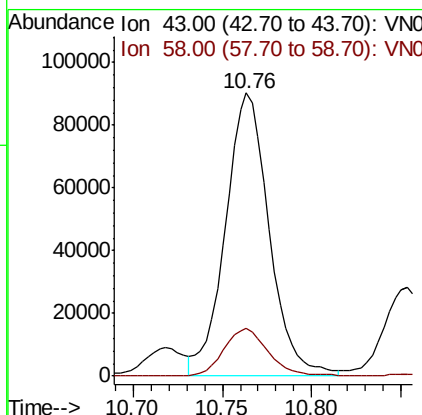
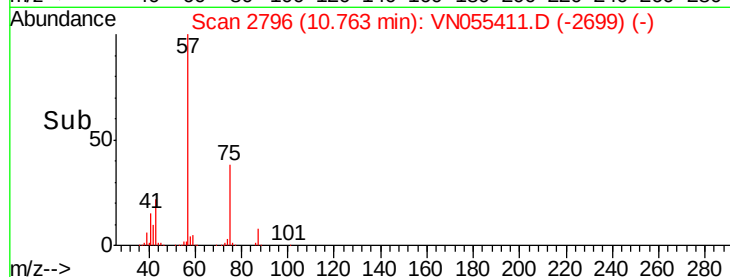
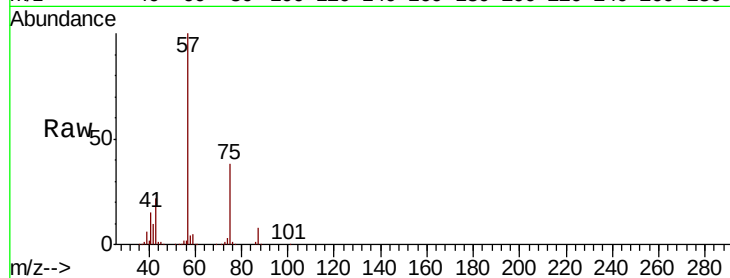




#59
2-Hexanone
Concen: 41.821 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN055411.D
Acq: 6 May 2019 11:59

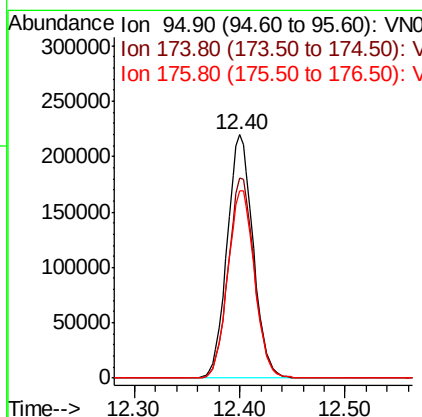
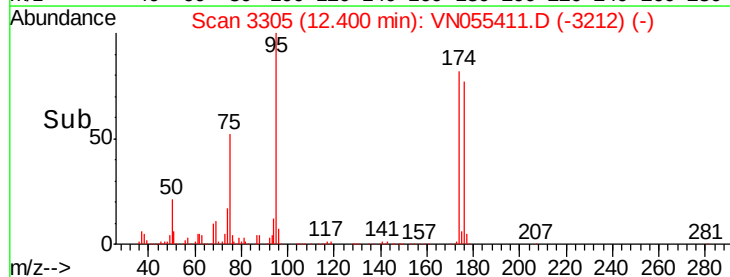
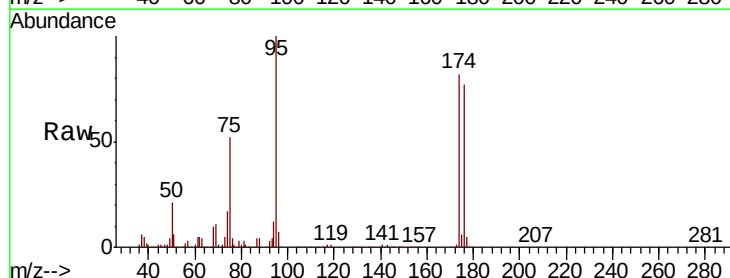
Instrument :
MSVOA_N
ClientSampleId :
PB119463TB

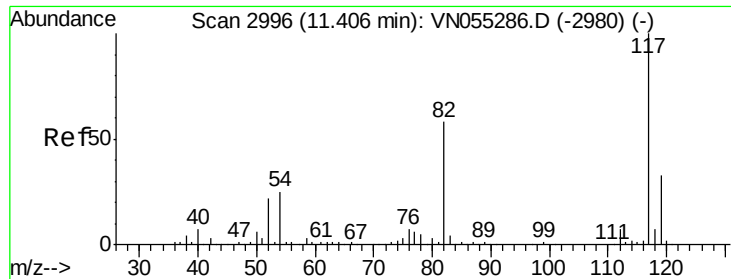
Tot Ion: 43 Resp: 152915
Ion Ratio Lower Upper
43 100
58 17.5 24.9 74.6#



#62
4-Bromofluorobenzene
Concen: 57.359 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055411.D
Acq: 6 May 2019 11:59

Tgt Ion: 95 Resp: 373810
Ion Ratio Lower Upper
95 100
174 82.5 0.0 166.6
176 79.2 0.0 157.8

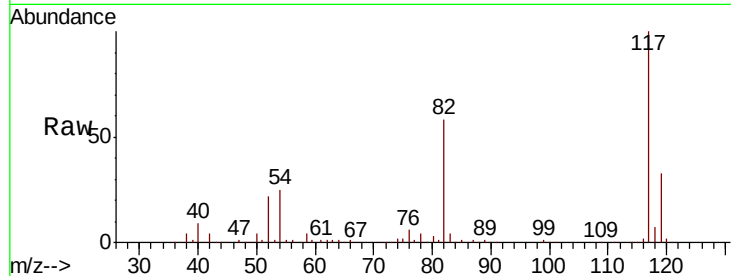




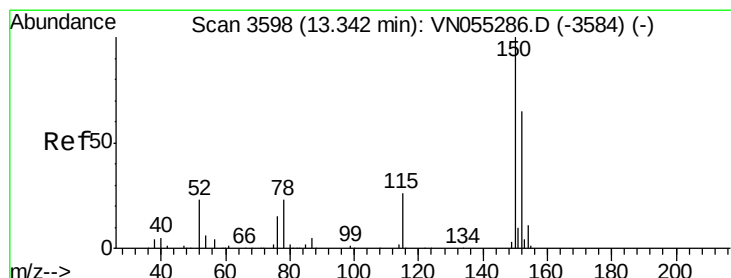
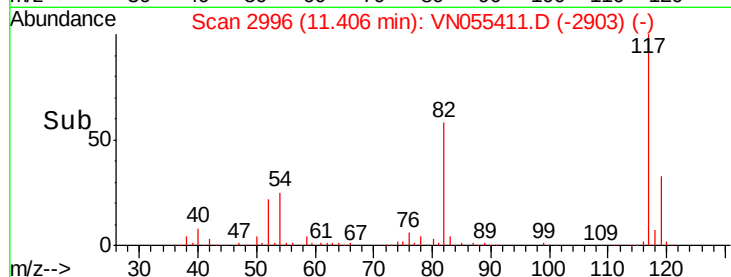
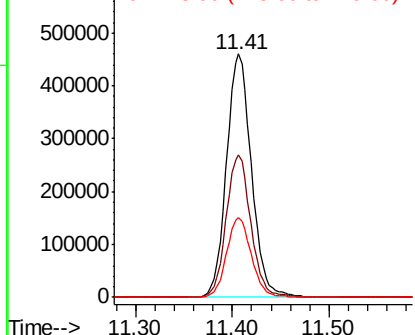
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055411.D
Acq: 6 May 2019 11:59

Instrument :
MSVOA_N
ClientSampleId :
PB119463TB

Tot Ion:117 Resp: 824251
Ion Ratio Lower Upper
117 100
82 58.5 46.2 69.4
119 32.8 26.6 40.0

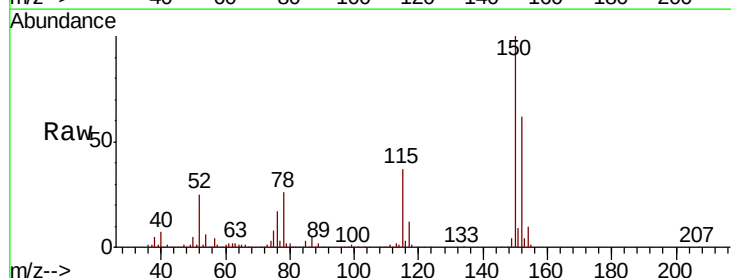


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

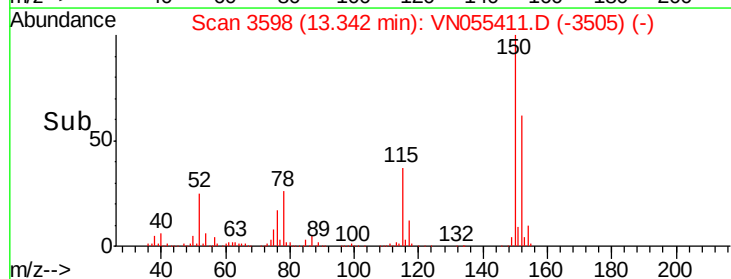
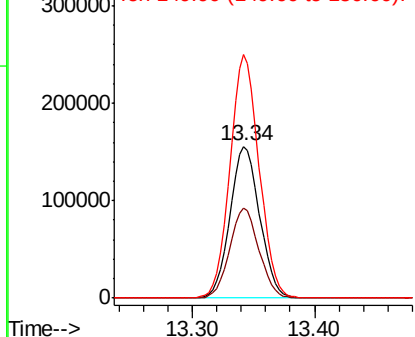


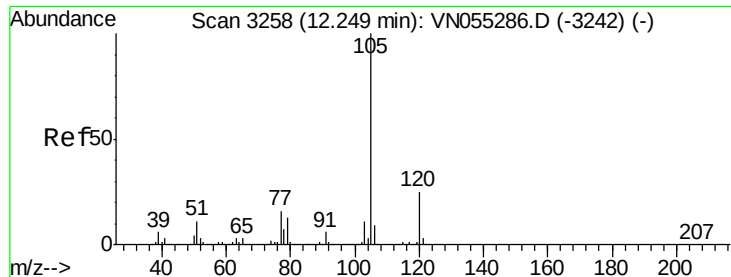
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN055411.D
Acq: 6 May 2019 11:59

Tgt Ion:152 Resp: 264086
Ion Ratio Lower Upper
152 100
115 58.4 29.0 87.0
150 156.8 0.0 345.6



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





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3257

Delta R.T. -0.00 min

Lab File: VN055411.D

Acq: 6 May 2019 11:59

Instrument :

MSVOA_N

ClientSampled :

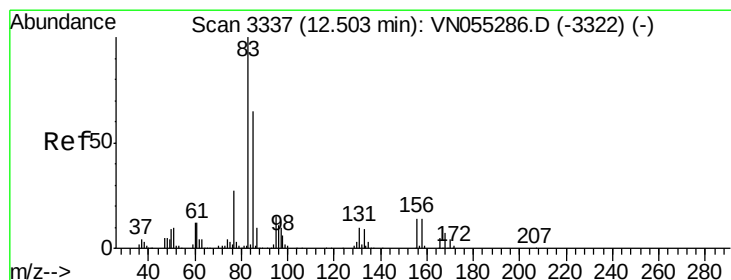
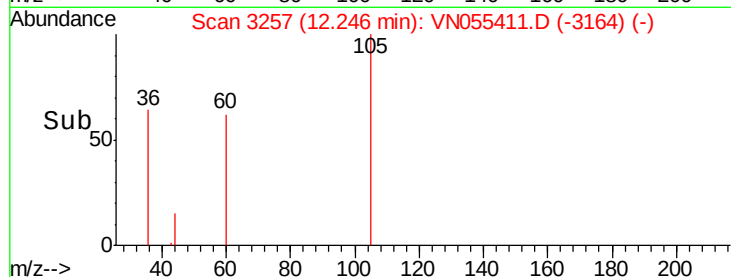
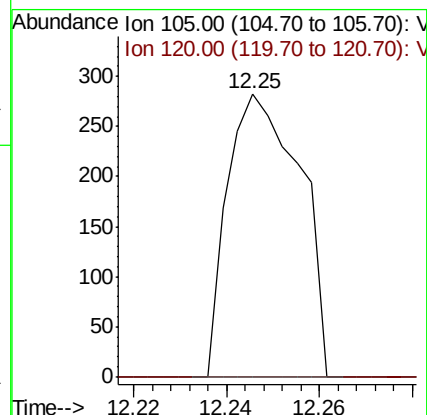
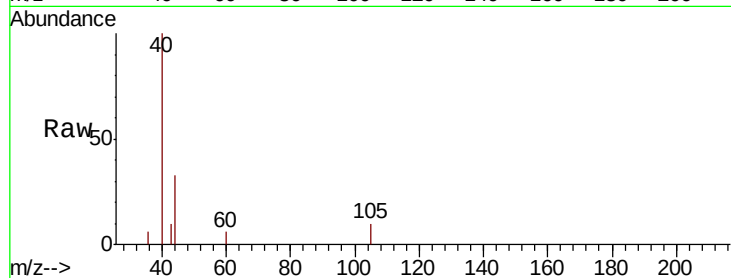
PB119463TB

Tot Ion: 105 Resp: 307

Ion Ratio Lower Upper

105 100

120 0.0 12.9 38.7#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3305

Delta R.T. -0.10 min

Lab File: VN055411.D

Acq: 6 May 2019 11:59

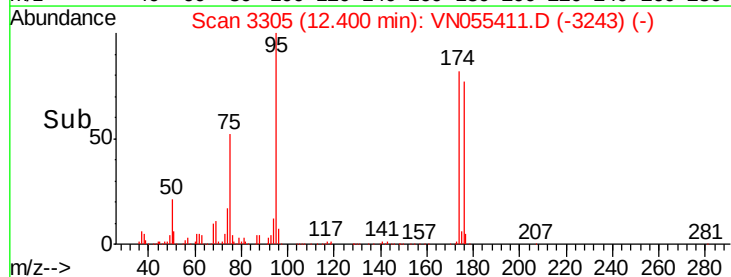
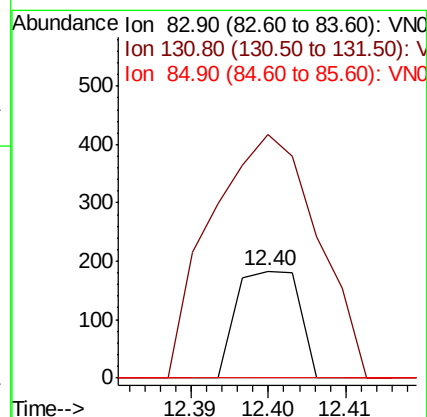
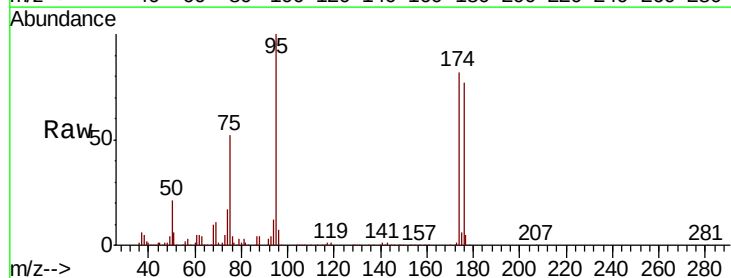
Tgt Ion: 83 Resp: 103

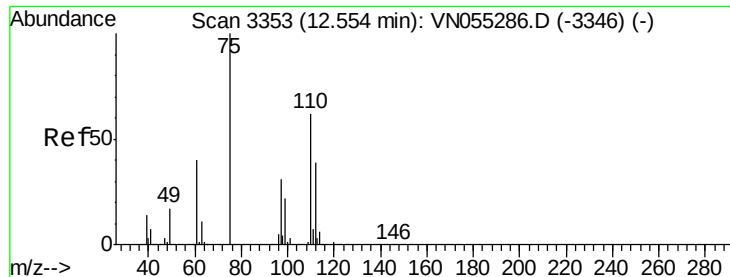
Ion Ratio Lower Upper

83 100

131 387.4 5.1 15.2#

85 0.0 32.3 96.8#





#76

1,2,3-Trichloropropane

Concen: 38.994 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055411.D

Acq: 6 May 2019 11:59

Instrument :

MSVOA_N

ClientSampled :

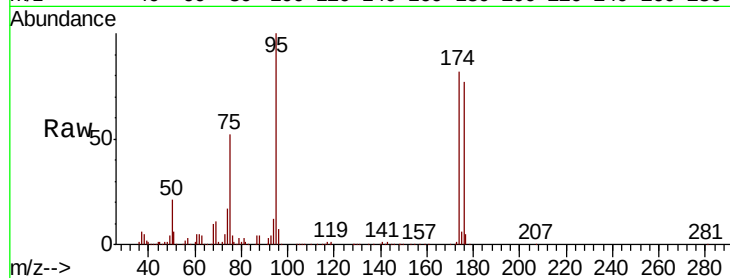
PB119463TB

Tot Ion: 75 Resp: 194131

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

120000

100000

80000

60000

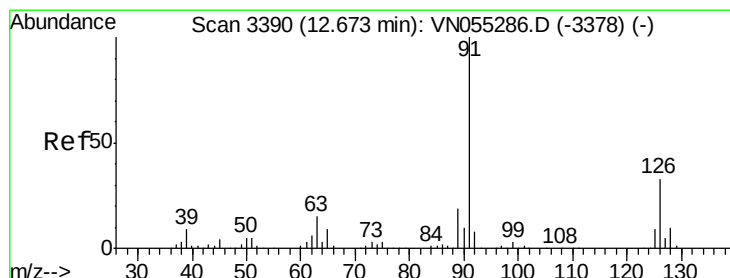
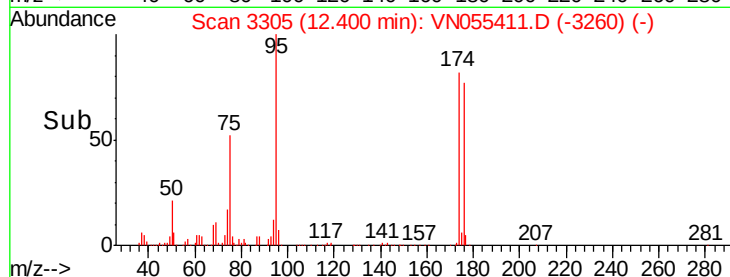
40000

20000

0

12.35 12.40 12.45 12.50

Time-->



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.66 min Scan# 3387

Delta R.T. -0.01 min

Lab File: VN055411.D

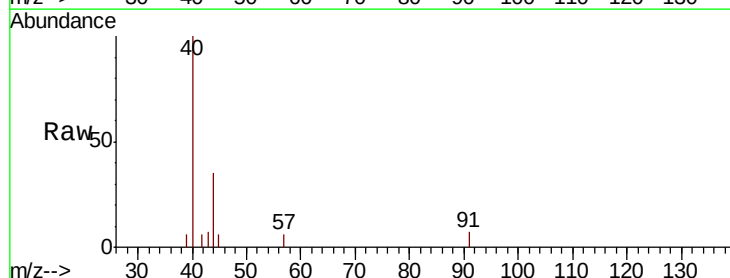
Acq: 6 May 2019 11:59

Tgt Ion: 91 Resp: 93

Ion Ratio Lower Upper

91 100

126 0.0 16.6 49.7#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

200

150

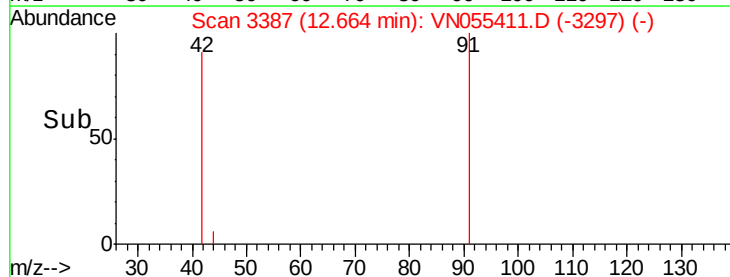
100

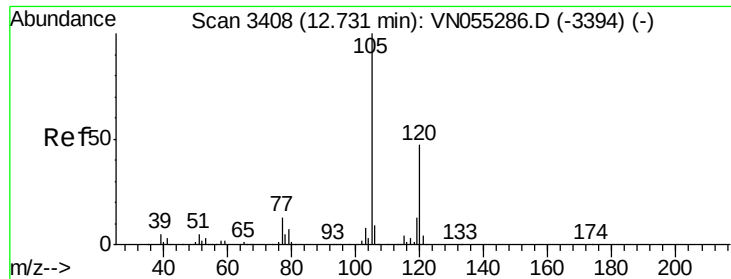
50

0

12.65 12.66 12.67

Time-->





#80

1,3,5-Trimethylbenzene

Concen: 0.534 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN055411.D

Acq: 6 May 2019 11:59

Instrument :

MSVOA_N

ClientSampleId :

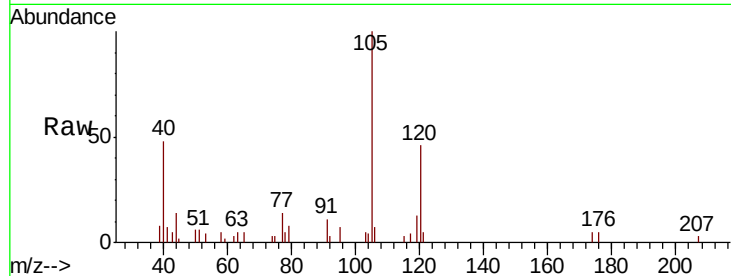
PB119463TB

Tot Ion:105 Resp: 11061

Ion Ratio Lower Upper

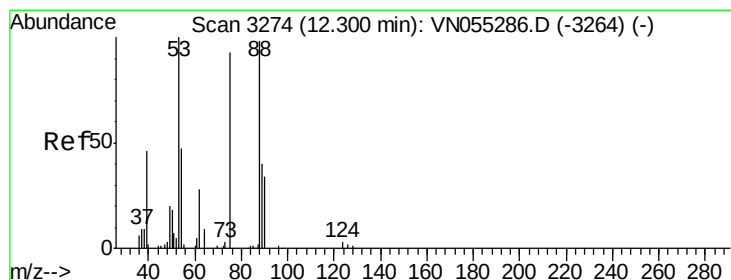
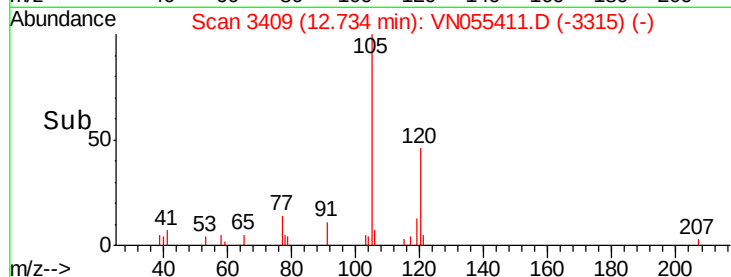
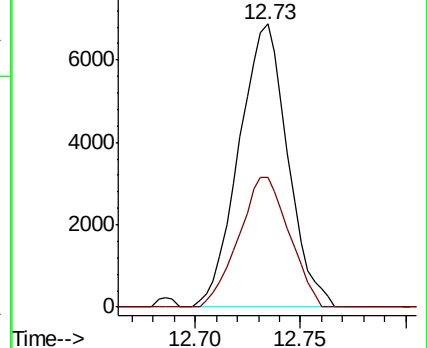
105 100

120 47.4 23.4 70.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 139.307 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055411.D

Acq: 6 May 2019 11:59

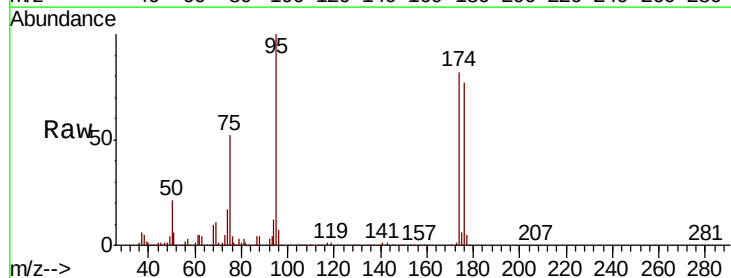
Tgt Ion: 75 Resp: 194131

Ion Ratio Lower Upper

75 100

53 0.0 86.3 129.5#

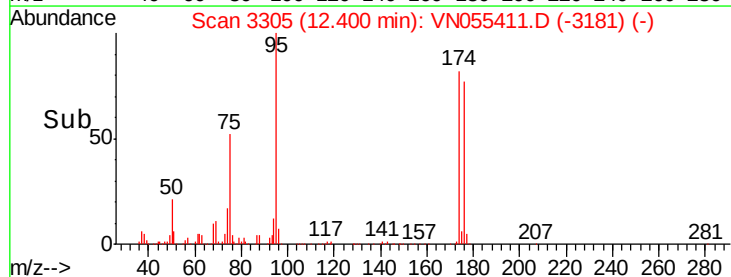
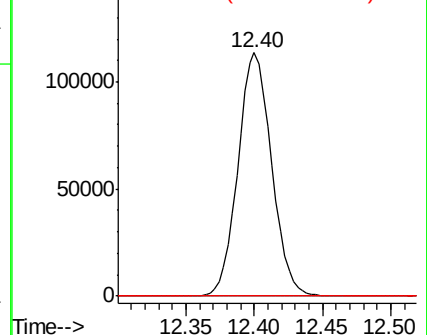
89 0.0 34.6 51.8#

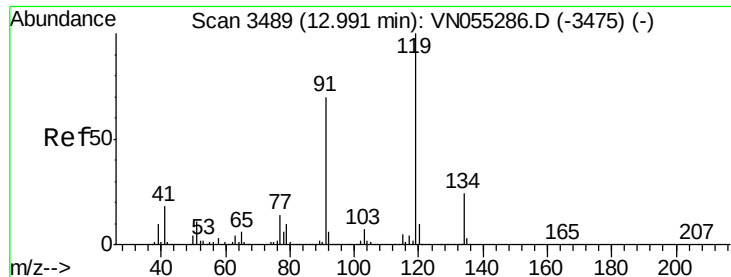


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

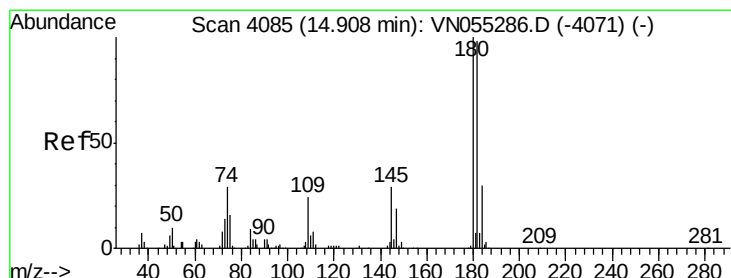
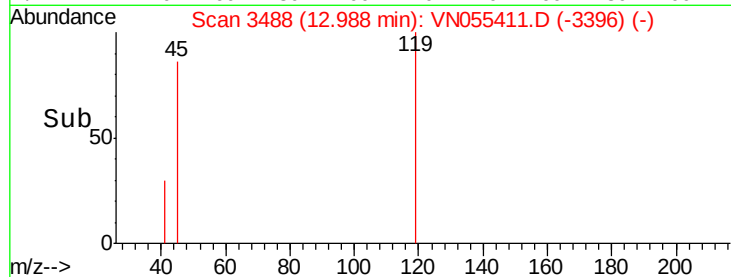
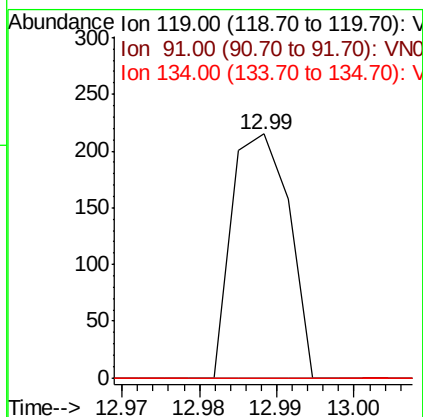
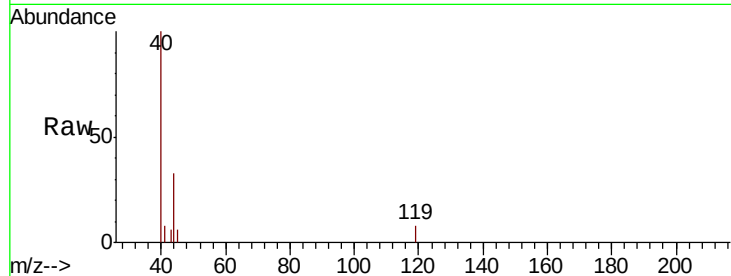




#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.99 min Scan# 3488
 Delta R.T. -0.00 min
 Lab File: VN055411.D
 Acq: 6 May 2019 11:59

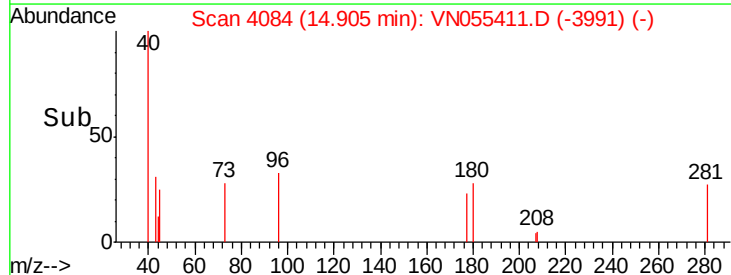
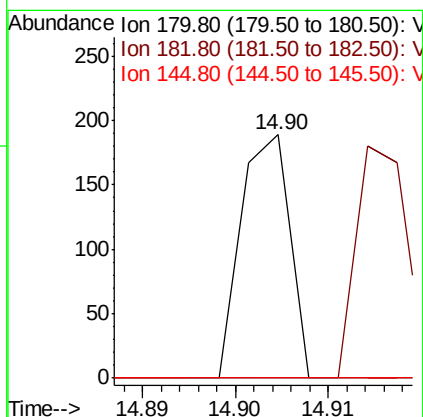
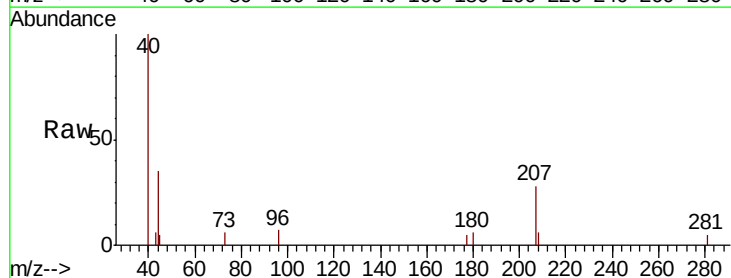
Instrument :
 MSVOA_N
 ClientSampleId :
 PB119463TB

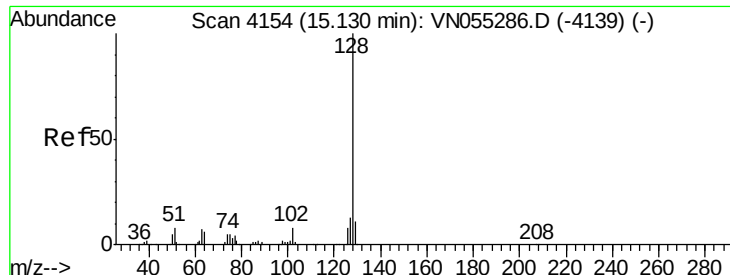
Tot Ion:119 Resp: 111
 Ion Ratio Lower Upper
 119 100
 91 0.0 34.3 102.9#
 134 0.0 13.1 39.3#



#93
 1,2,4-Trichlorobenzene
 Concen: 3.329 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. -0.00 min
 Lab File: VN055411.D
 Acq: 6 May 2019 11:59

Tgt Ion:180 Resp: 69
 Ion Ratio Lower Upper
 180 100
 182 97.1 48.3 144.9
 145 0.0 14.2 42.6#





#95

Naphthalene

Concen: 3.336 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. -0.00 min

Lab File: VN055411.D

Acq: 6 May 2019 11:59

Instrument :

MSVOA_N

ClientSampleId :

PB119463TB

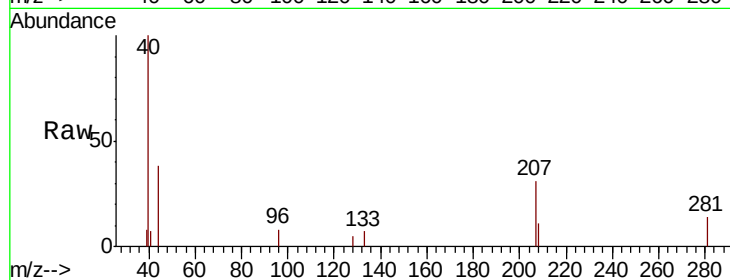
Tot Ion:128 Resp: 61

Ion Ratio Lower Upper

128 100

127 0.0 10.7 16.1#

129 0.0 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

