

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041919\
 Data File : VN055151.D
 Acq On : 19 Apr 2019 20:47
 Operator : JC/SP
 Sample : K2201-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PL-01-041819-C

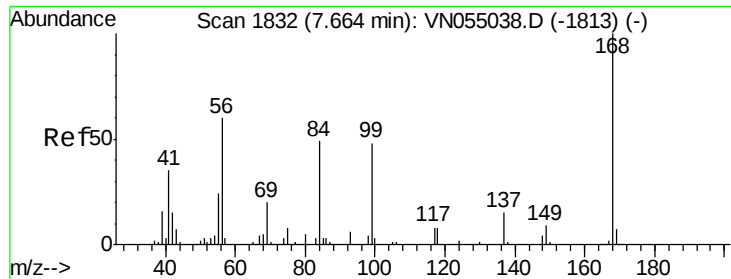
Quant Time: Apr 20 04:25:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041519W.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 15 12:28:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	542249	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	861406	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	676619	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	195059	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	351702	48.79	ug/l	0.00
Spiked Amount			Recovery	=	97.58%	
35) Dibromofluoromethane	7.59	113	277500	48.20	ug/l	0.00
Spiked Amount			Recovery	=	96.40%	
50) Toluene-d8	10.09	98	1008699	48.96	ug/l	0.00
Spiked Amount			Recovery	=	97.92%	
62) 4-Bromofluorobenzene	12.40	95	270584	40.40	ug/l	0.00
Spiked Amount			Recovery	=	80.80%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
14) Allyl chloride	4.55	41	23300	2.212	ug/l #	27
16) Acetone	3.83	43	14840	7.586	ug/l #	80
17) Carbon Disulfide	4.07	76	3738	0.269	ug/l #	75
20) Methylene Chloride	4.55	84	513212	74.625	ug/l	98
29) Tetrahydrofuran	7.22	42	2189	1.143	ug/l #	62
30) Chloroform	7.37	83	12871	1.149	ug/l	97
31) Cyclohexane	7.67	56	11679	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	40705	5.013	ug/l #	50
38) Carbon Tetrachloride	7.67	117	50714	6.564	ug/l #	16
43) Isopropyl Acetate	8.17	43	13086	1.285	ug/l	97
47) Bromodichloromethane	9.40	83	2127	0.266	ug/l #	94
48) Methyl methacrylate	9.18	41	6293	1.246	ug/l #	17
51) 4-Methyl-2-Pentanone	9.99	43	4490	0.763	ug/l	93
54) cis-1,3-Dichloropropene	9.90	75	45085	5.190	ug/l #	66
57) 1,3-Dichloropropane	10.77	76	9464	1.029	ug/l #	43
58) 2-Chloroethyl Vinyl ether	9.91	63	69	10.760	ug/l #	50
59) 2-Hexanone	10.76	43	144176	39.005	ug/l #	54
71) Bromoform	12.40	173	1997	0.696	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	138549	39.499	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7127	0.510	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.40	75	138549	157.952	ug/l #	3
84) 1,2,4-Trimethylbenzene	13.04	105	7312	0.552	ug/l	94
93) 1,2,4-Trichlorobenzene	14.91	180	30	2.687	ug/l #	12
95) Naphthalene	15.13	128	2230	3.379	ug/l #	92

(#) = 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: VN055151.D

Acq: 19 Apr 2019 20:47

Instrument :

MSVOA_N

ClientSampleId :

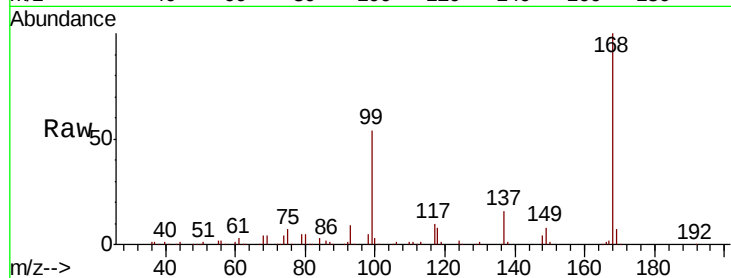
PL-01-041819-C

Tot Ion:168 Resp: 542249

Ion Ratio Lower Upper

168 100

99 53.9 41.9 62.9



Abundance Ion 167.90 (167.60 to 168.60): VN055151.D (-1739) (-)

Ion 98.90 (98.60 to 99.60): VN055151.D (-1739) (-)

7.67

250000

200000

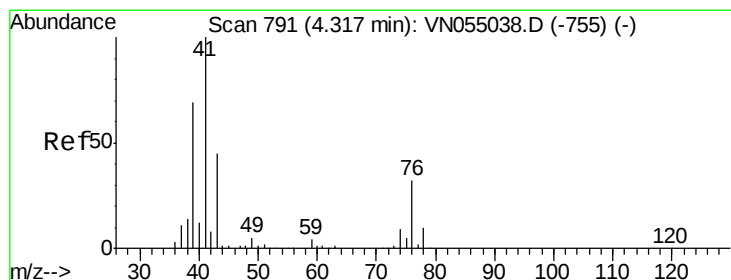
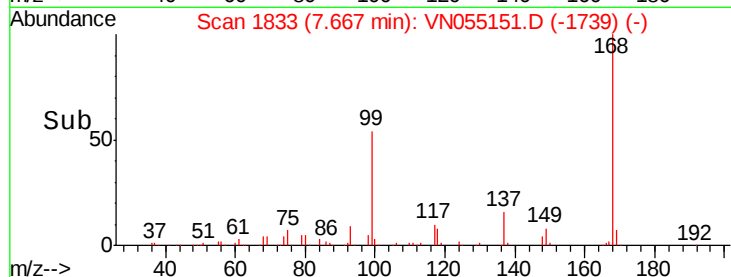
150000

100000

50000

0

Time-->



#14

Allyl chloride

Concen: 2.212 ug/l

RT: 4.55 min Scan# 865

Delta R.T. 0.24 min

Lab File: VN055151.D

Acq: 19 Apr 2019 20:47

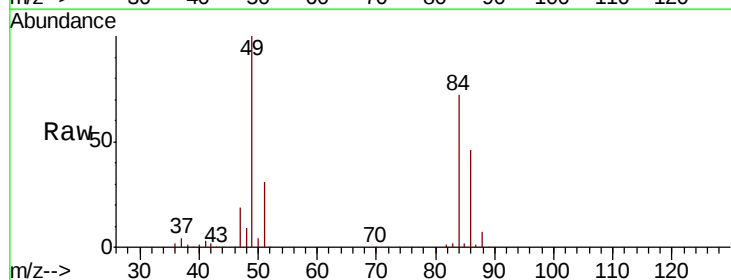
Tgt Ion: 41 Resp: 23300

Ion Ratio Lower Upper

41 100

39 1.3 52.7 79.1#

76 0.0 23.2 34.8#



Abundance Ion 41.00 (40.70 to 41.70): VN055151.D (-698) (-)

Ion 39.00 (38.70 to 39.70): VN055151.D (-698) (-)

Ion 75.90 (75.60 to 76.60): VN055151.D (-698) (-)

4.55

10000

8000

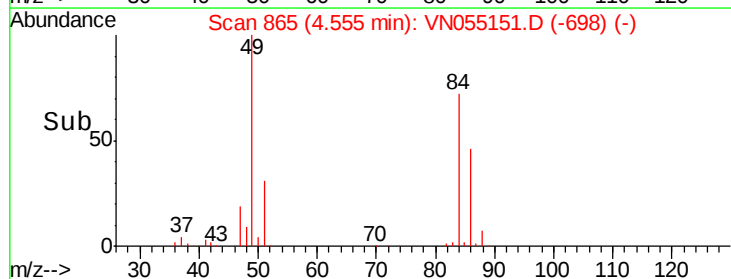
6000

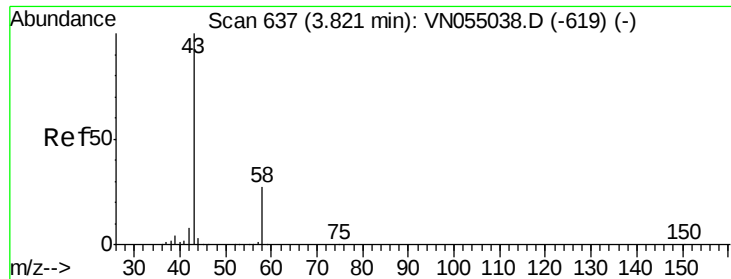
4000

2000

0

Time-->





#16

Acetone

Concen: 7.586 ug/l

RT: 3.83 min Scan# 640

Delta R.T. 0.01 min

Lab File: VN055151.D

Acq: 19 Apr 2019 20:47

Instrument :

MSVOA_N

ClientSampleId :

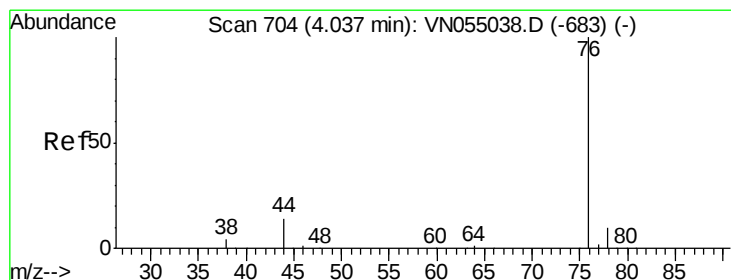
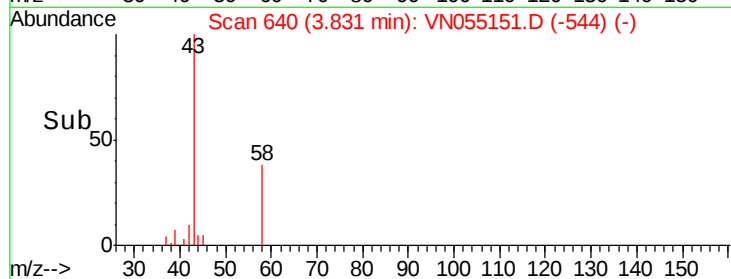
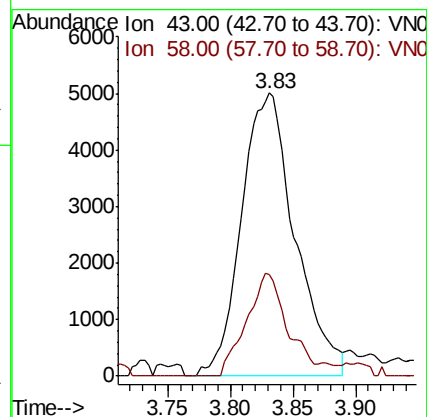
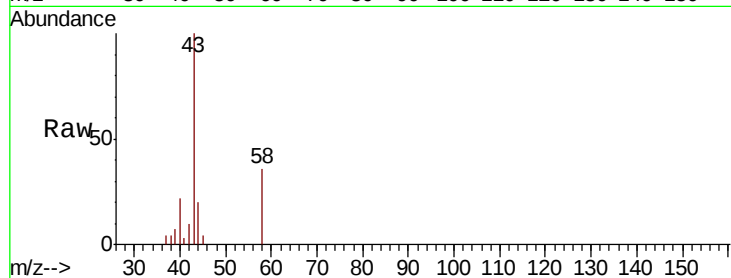
PL-01-041819-C

Tot Ion: 43 Resp: 14840

Ion Ratio Lower Upper

43 100

58 36.1 20.9 31.3#



#17

Carbon Disulfide

Concen: 0.269 ug/l

RT: 4.07 min Scan# 713

Delta R.T. 0.03 min

Lab File: VN055151.D

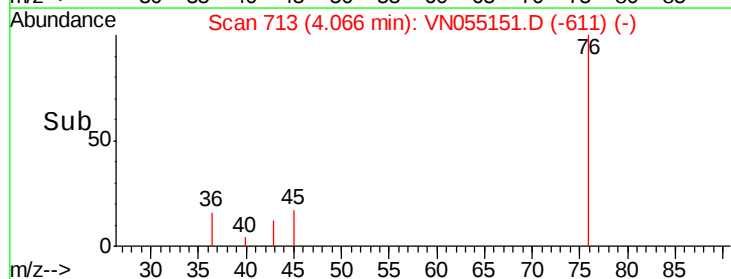
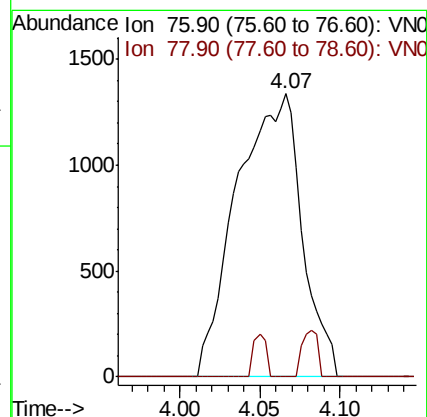
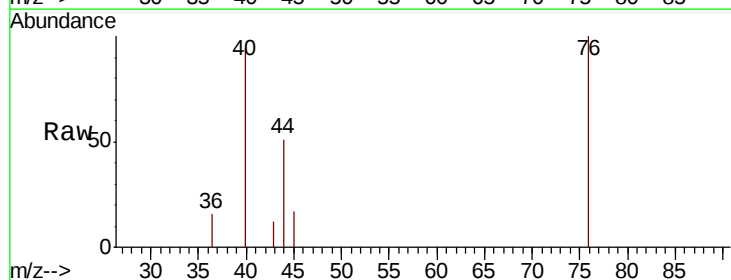
Acq: 19 Apr 2019 20:47

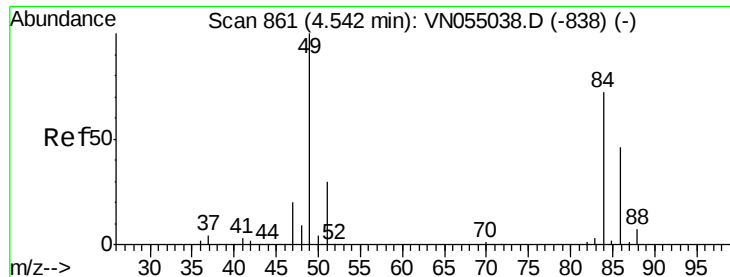
Tgt Ion: 76 Resp: 3738

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#

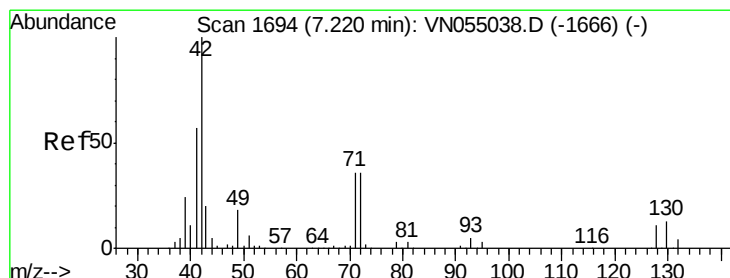
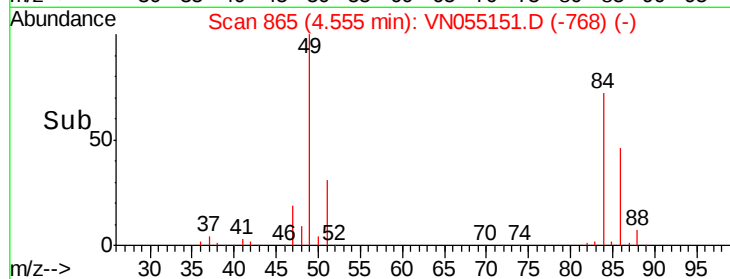
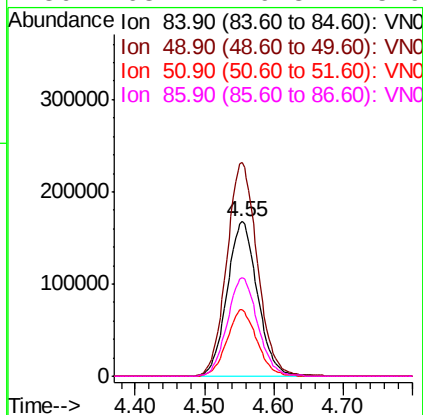
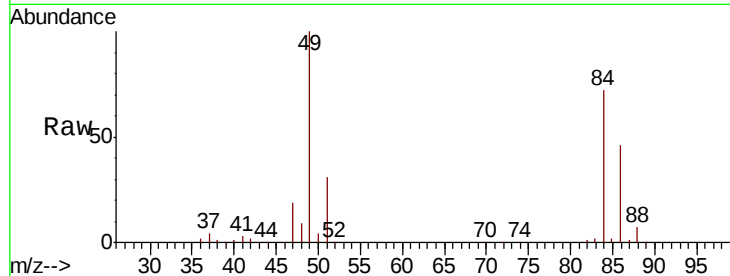




#20
Methvlene Chloride
Concen: 74.625 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.01 min
Lab File: VN055151.D
Acq: 19 Apr 2019 20:47

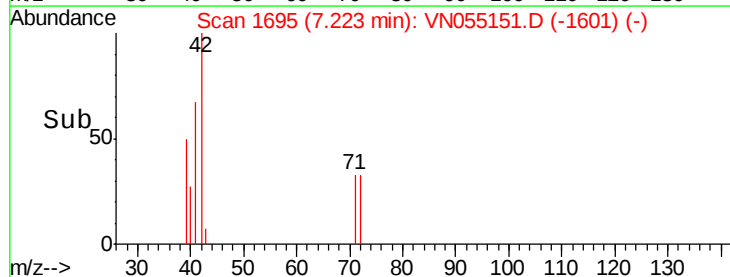
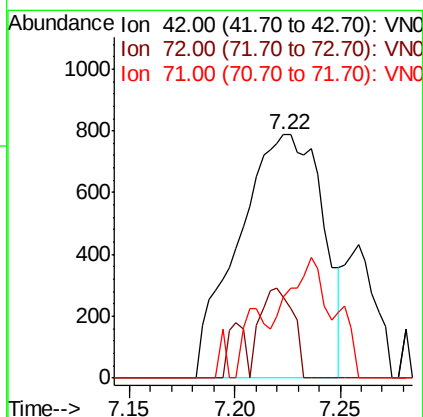
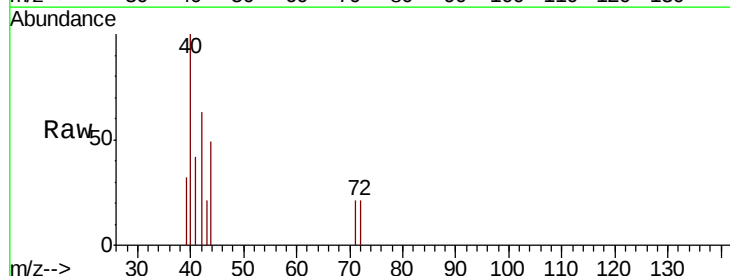
Instrument :
MSVOA_N
ClientSampleId :
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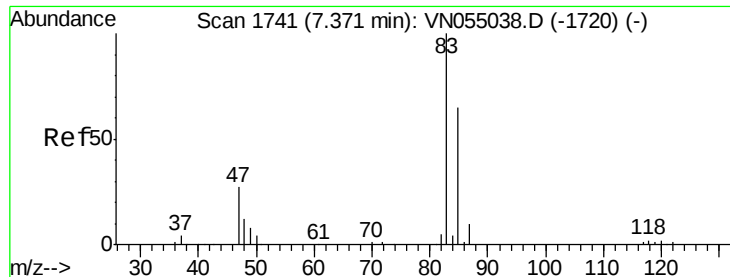
Tot Ion:	84	Resp:	513212
Ion	Ratio	Lower	Upper
84	100		
49	138.1	109.4	164.2
51	43.0	32.2	48.4
86	63.7	49.3	73.9



#29
Tetrahydrofuran
Concen: 1.143 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.00 min
Lab File: VN055151.D
Acq: 19 Apr 2019 20:47

Tgt Ion:	42	Resp:	2189
Ion	Ratio	Lower	Upper
42	100		
72	14.5	29.4	44.0#
71	12.3	27.8	41.6#

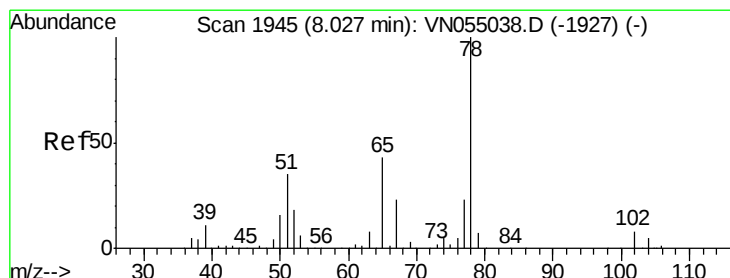
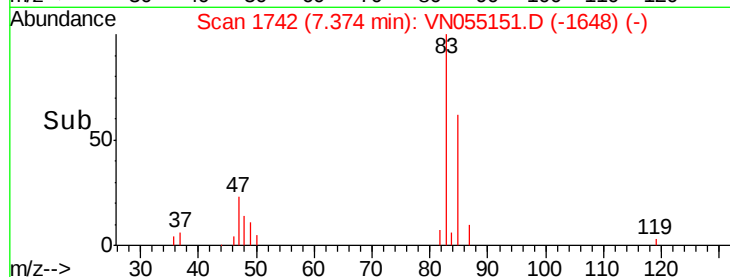
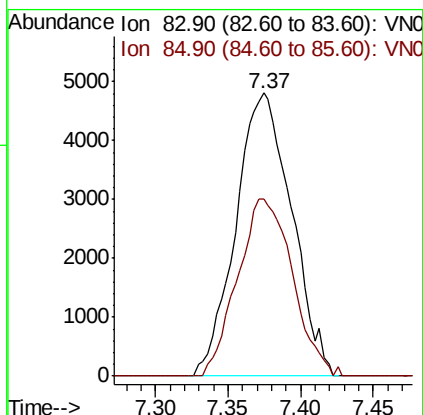
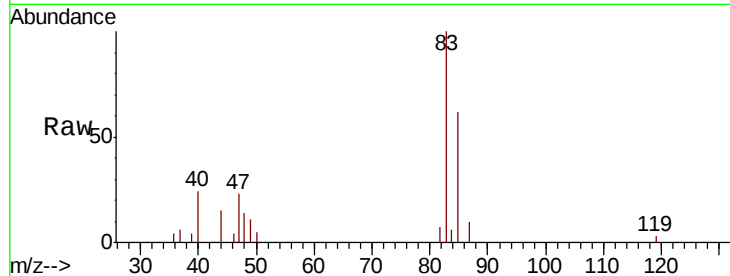




#30
Chloroform
Concen: 1.149 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN055151.D
Acq: 19 Apr 2019 20:47

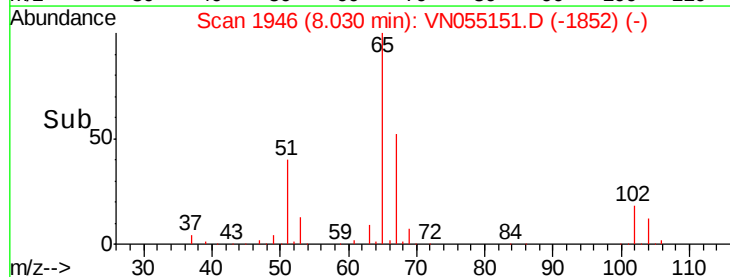
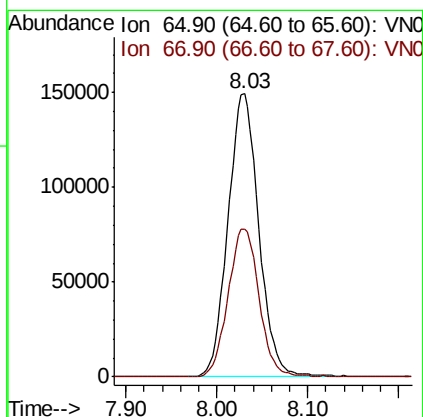
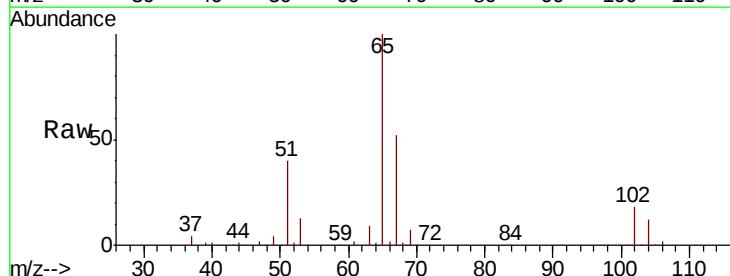
Instrument :
MSVOA_N
ClientSampleId :
PL-01-041819-C

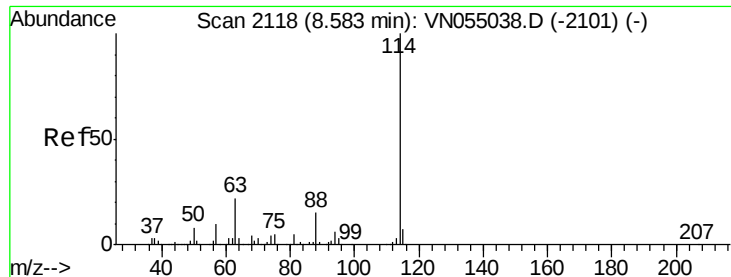
Tot Ion: 83 Resp: 12871
Ion Ratio Lower Upper
83 100
85 62.4 51.8 77.6



#33
1,2-Dichloroethane-d4
Concen: 48.794 ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN055151.D
Acq: 19 Apr 2019 20:47

Tgt Ion: 65 Resp: 351702
Ion Ratio Lower Upper
65 100
67 52.7 0.0 106.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN055151.D

Acq: 19 Apr 2019 20:47

Instrument :

MSVOA_N

ClientSampleId :

PL-01-041819-C

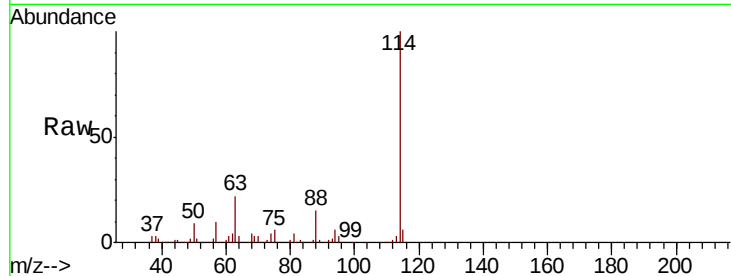
Tot Ion:114 Resp: 861406

Ion Ratio Lower Upper

114 100

63 21.8 0.0 45.2

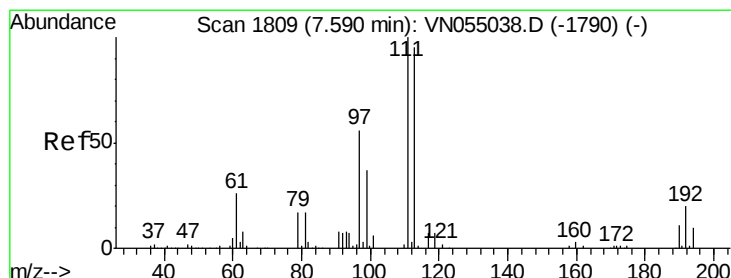
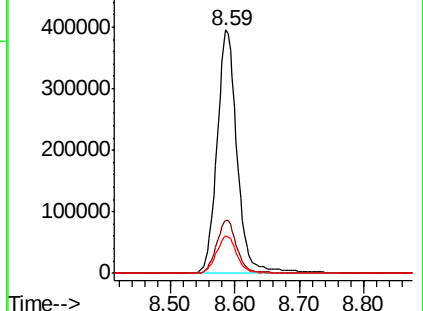
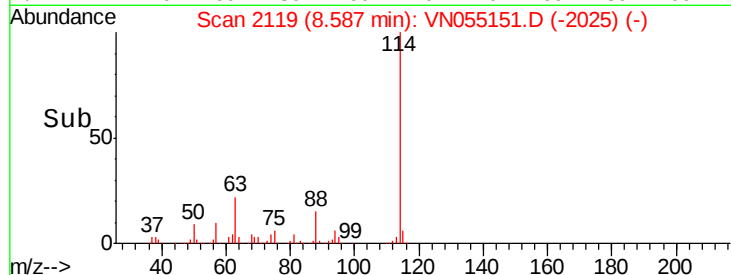
88 15.3 0.0 31.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 48.203 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN055151.D

Acq: 19 Apr 2019 20:47

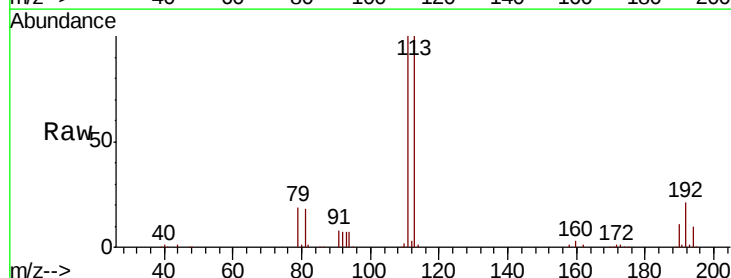
Tgt Ion:113 Resp: 277500

Ion Ratio Lower Upper

113 100

111 101.6 82.1 123.1

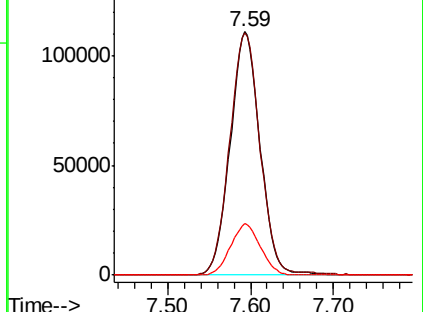
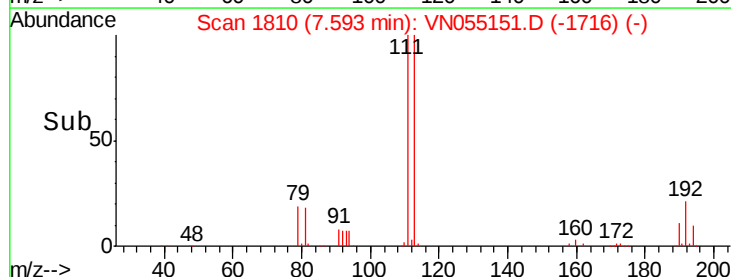
192 21.1 16.5 24.7

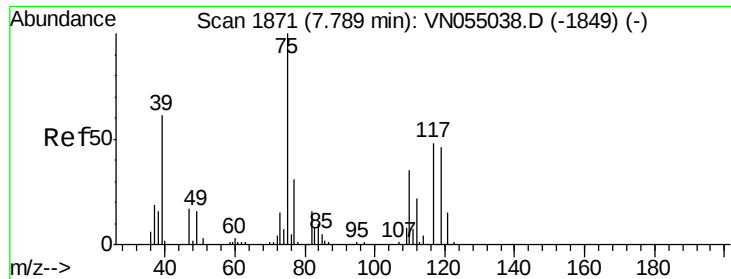


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

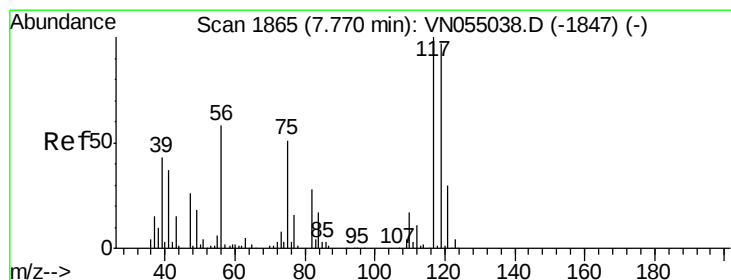
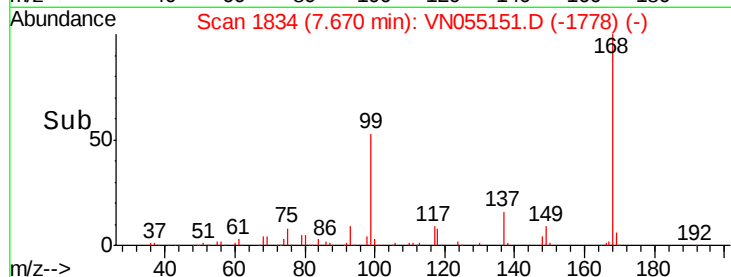
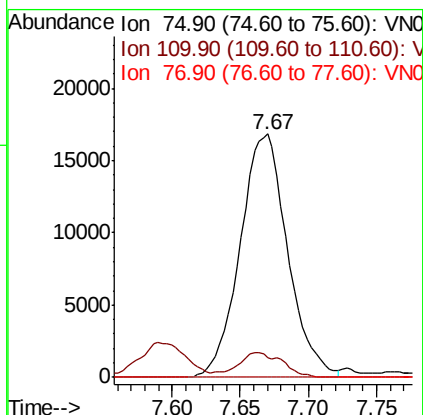
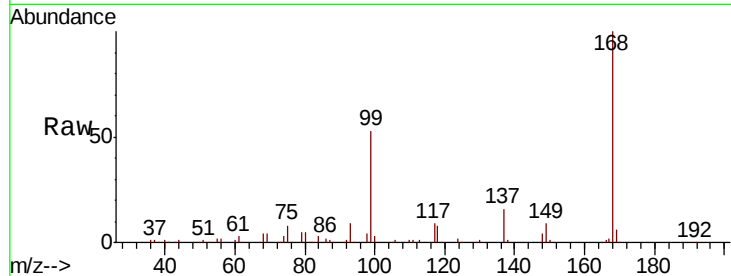




#36
 1,1-Dichloropropene
 Concen: 5.013 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN055151.D
 Acq: 19 Apr 2019 20:47

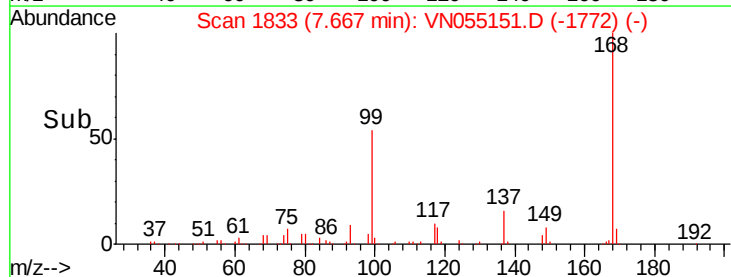
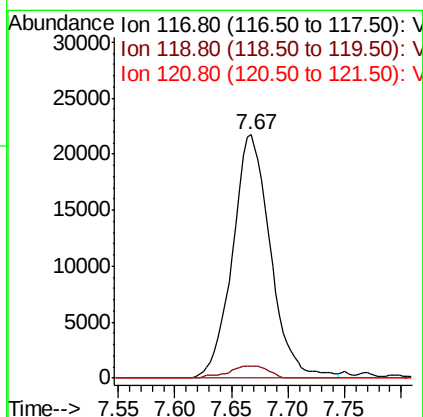
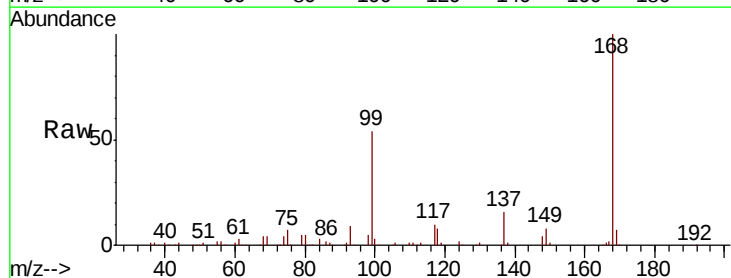
Instrument :
 MSVOA_N
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 PL-01-041819-C

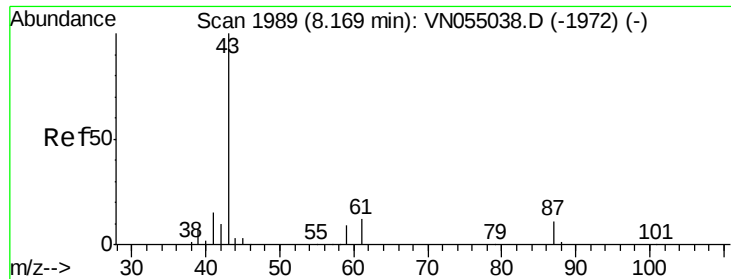
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.3	17.5	52.5#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 6.564 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.10 min
 Lab File: VN055151.D
 Acq: 19 Apr 2019 20:47

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.2	76.3	114.5#
121	0.0	23.9	35.9#





#43

Isopropyl Acetate

Concen: 1.285 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN055151.D

Acq: 19 Apr 2019 20:47

Instrument :

MSVOA_N

ClientSampleId :

PL-01-041819-C

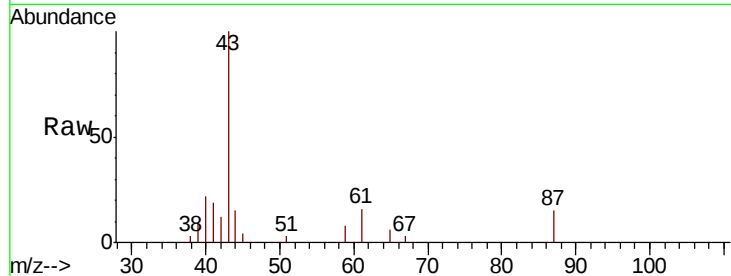
Tot Ion: 43 Resp: 13086

Ion Ratio Lower Upper

43 100

61 19.3 14.3 21.5

87 12.3 8.6 13.0

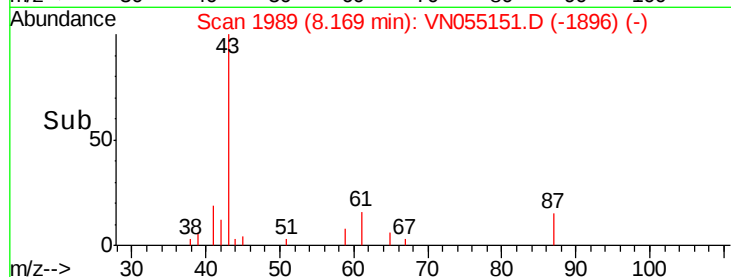


Abundance Ion 43.00 (42.70 to 43.70): VN055151.D (-1896) (-)

Ion 61.00 (60.70 to 61.70): VN055151.D (-1896) (-)

Ion 87.00 (86.70 to 87.70): VN055151.D (-1896) (-)

Time-->



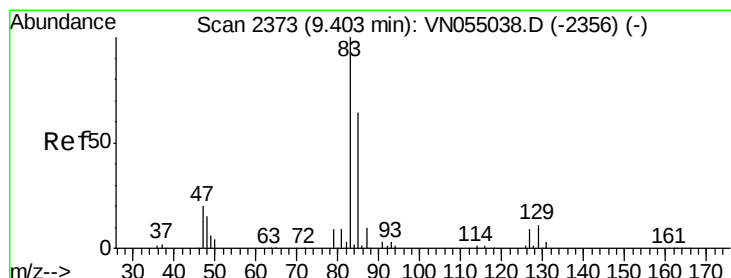
Abundance

Ion 43.00 (42.70 to 43.70): VN055151.D (-1896) (-)

Ion 61.00 (60.70 to 61.70): VN055151.D (-1896) (-)

Ion 87.00 (86.70 to 87.70): VN055151.D (-1896) (-)

Time-->



#47

Bromodichloromethane

Concen: 0.266 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN055151.D

Acq: 19 Apr 2019 20:47

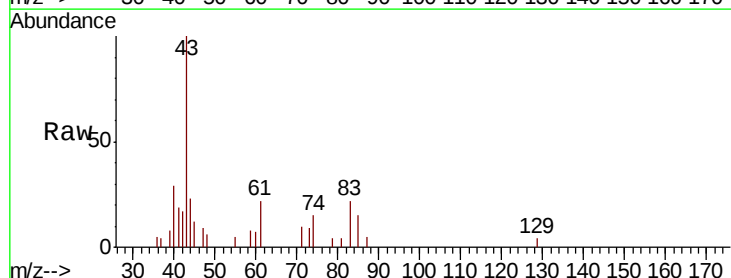
Tgt Ion: 83 Resp: 2127

Ion Ratio Lower Upper

83 100

85 67.3 51.2 76.8

127 0.0 6.8 10.2#

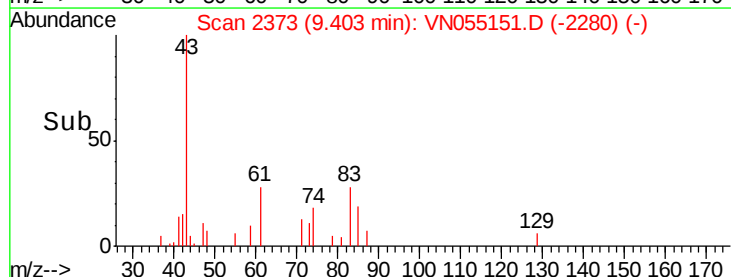


Abundance Ion 82.90 (82.60 to 83.60): VN055151.D (-2280) (-)

Ion 84.90 (84.60 to 85.60): VN055151.D (-2280) (-)

Ion 126.80 (126.50 to 127.50): VN055151.D (-2280) (-)

Time-->



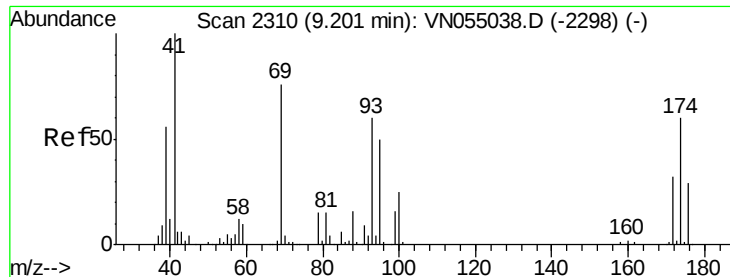
Abundance

Ion 82.90 (82.60 to 83.60): VN055151.D (-2280) (-)

Ion 84.90 (84.60 to 85.60): VN055151.D (-2280) (-)

Ion 126.80 (126.50 to 127.50): VN055151.D (-2280) (-)

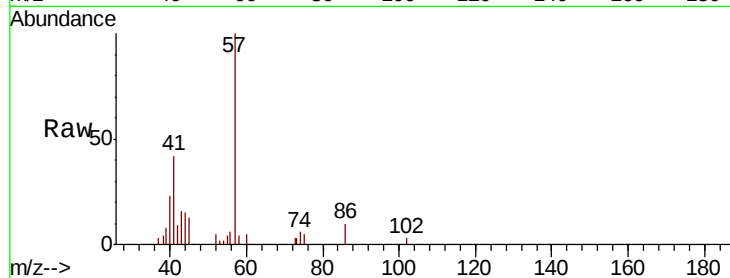
Time-->



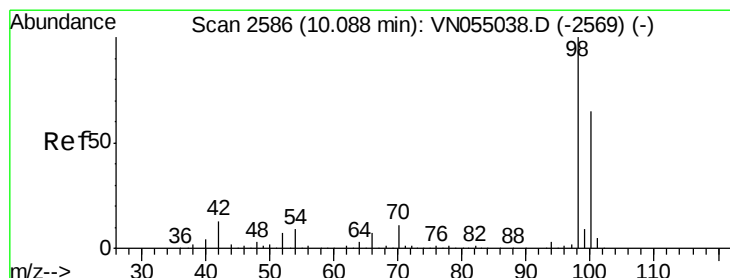
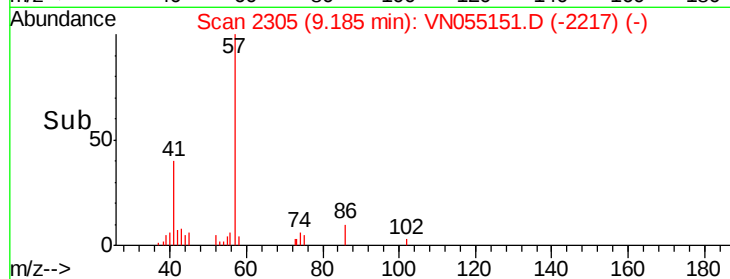
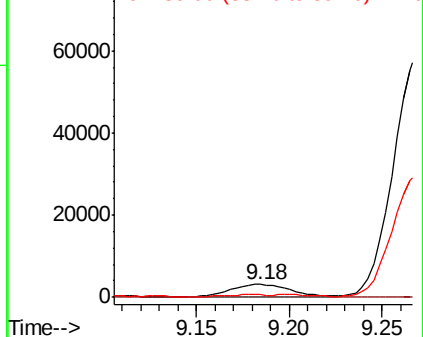
#48
Methvl methacrylate
Concen: 1.246 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.02 min
Lab File: VN055151.D
Acq: 19 Apr 2019 20:47

Instrument :
MSVOA_N
ClientSampleId :
PL-01-041819-C

Tot Ion: 41 Resp: 6293
Ion Ratio Lower Upper
41 100
69 0.0 60.5 90.7#
39 0.0 43.9 65.9#

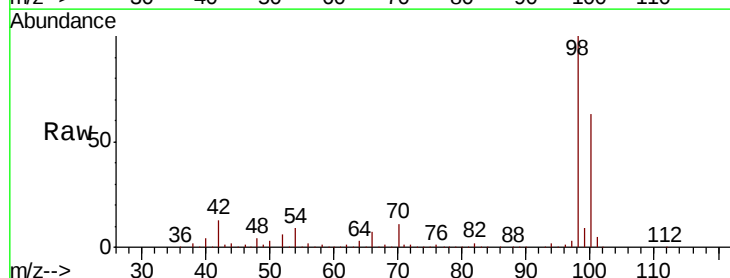


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

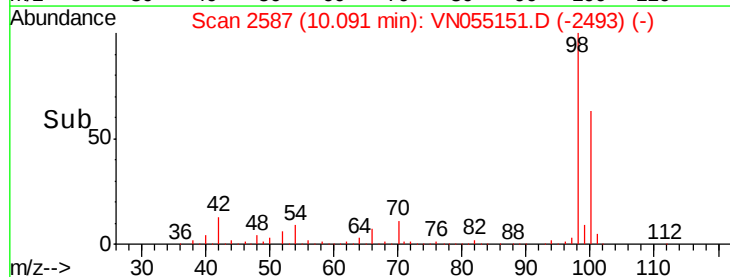
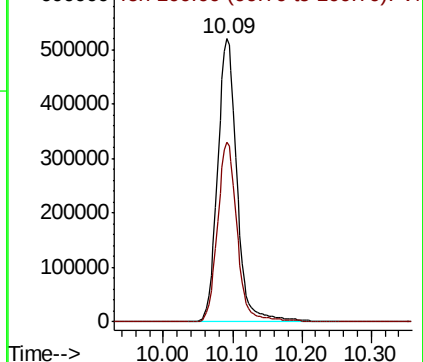


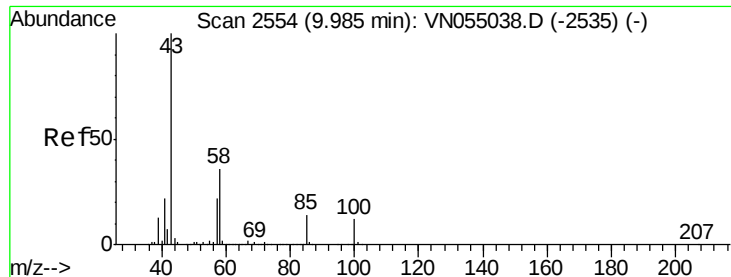
#50
Toluene-d8
Concen: 48.956 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN055151.D
Acq: 19 Apr 2019 20:47

Tgt Ion: 98 Resp: 1008699
Ion Ratio Lower Upper
98 100
100 64.3 51.1 76.7



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

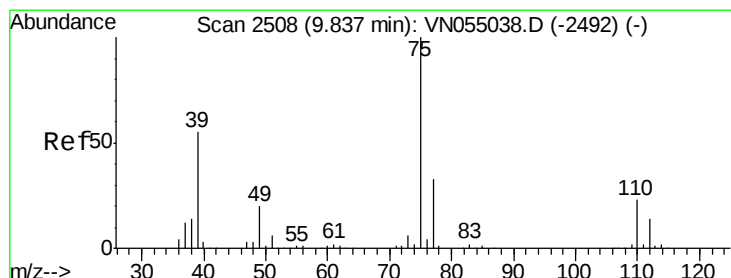
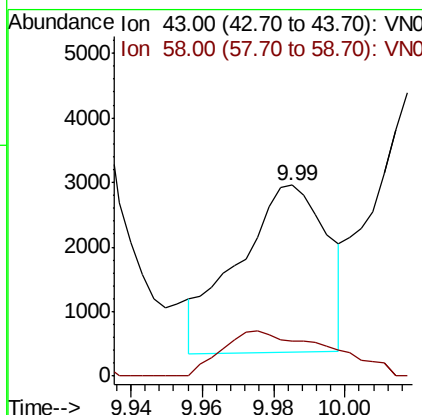
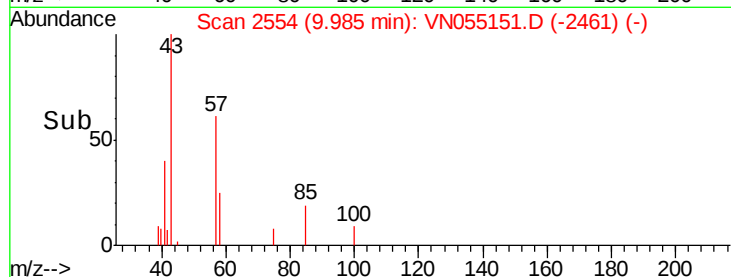
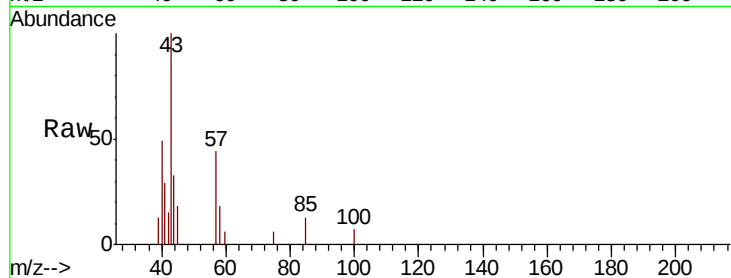




#51
4-Methyl-2-Pentanone
Concen: 0.763 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN055151.D
Acq: 19 Apr 2019 20:47

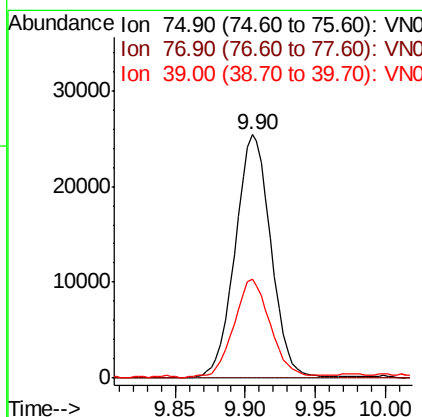
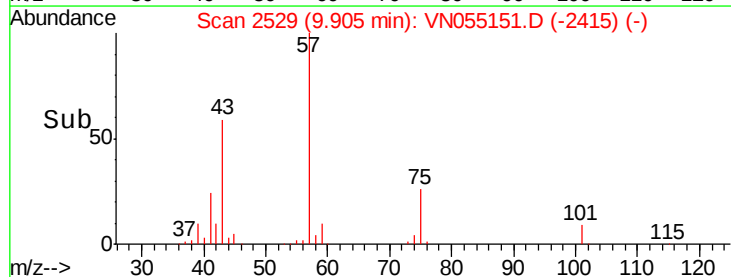
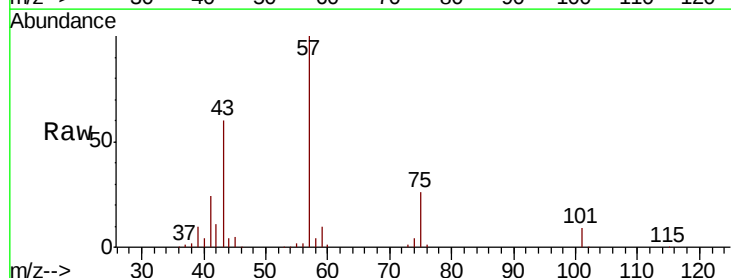
Instrument :
MSVOA_N
ClientSampleId :
PL-01-041819-C

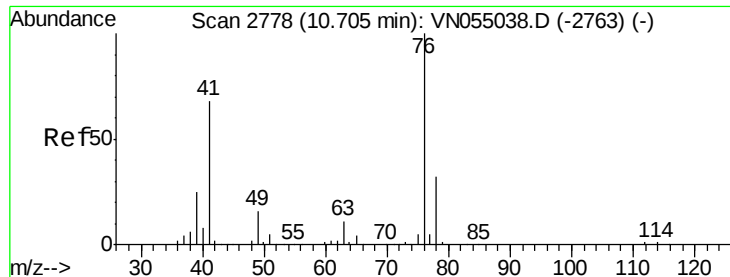
Tot Ion: 43 Resp: 4490
Ion Ratio Lower Upper
43 100
58 32.1 29.0 43.4



#54
cis-1,3-Dichloropropene
Concen: 5.190 ug/l
RT: 9.90 min Scan# 2529
Delta R.T. 0.07 min
Lab File: VN055151.D
Acq: 19 Apr 2019 20:47

Tgt Ion: 75 Resp: 45085
Ion Ratio Lower Upper
75 100
77 0.0 25.8 38.6#
39 39.9 43.8 65.8#





#57

1,3-Dichloropropane

Concen: 1.029 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN055151.D

Acq: 19 Apr 2019 20:47

Instrument :

MSVOA_N

ClientSampleId :

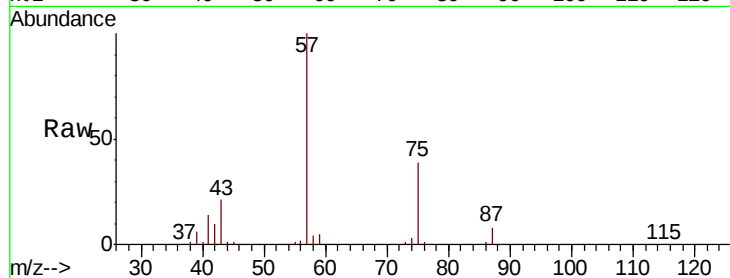
PL-01-041819-C

Tot Ion: 76 Resp: 9464

Ion Ratio Lower Upper

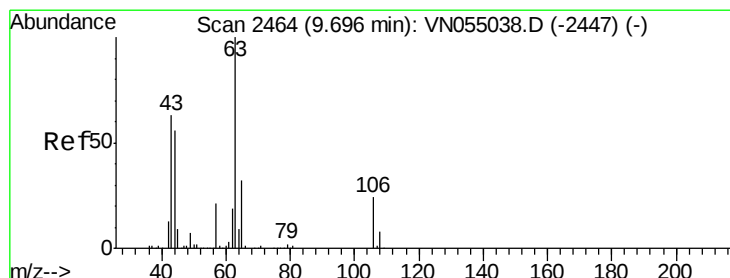
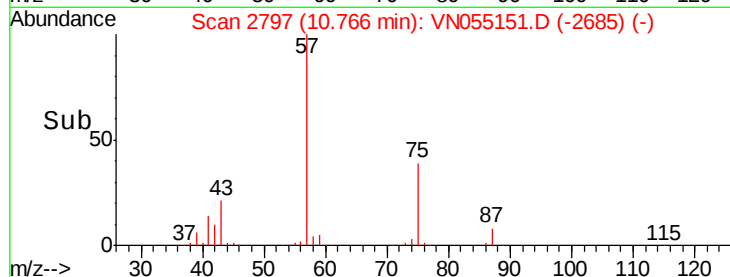
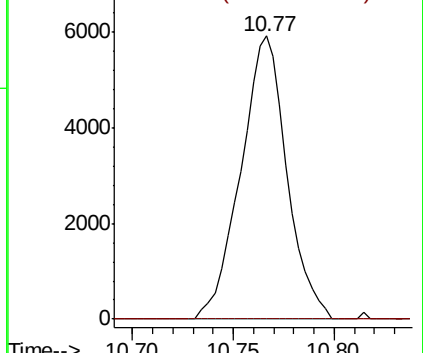
76 100

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: 10.760 ug/l

RT: 9.91 min Scan# 2531

Delta R.T. 0.22 min

Lab File: VN055151.D

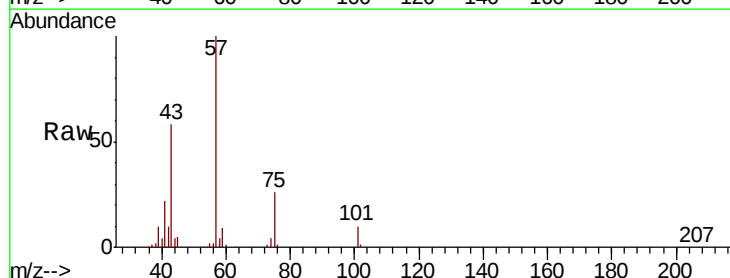
Acq: 19 Apr 2019 20:47

Tgt Ion: 63 Resp: 69

Ion Ratio Lower Upper

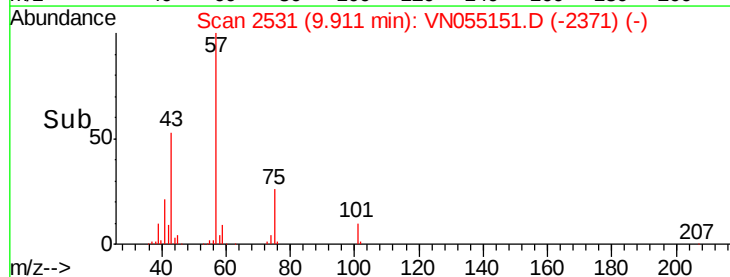
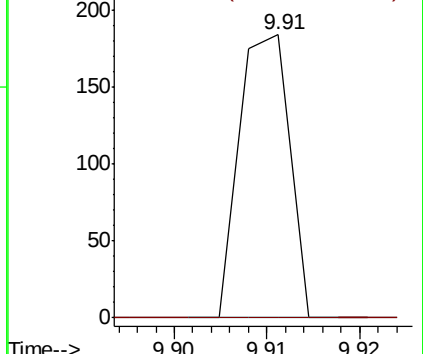
63 100

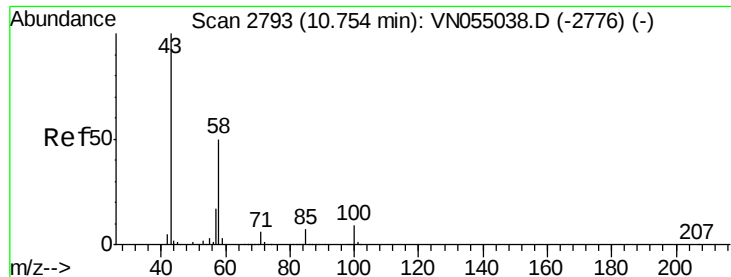
106 0.0 20.0 30.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

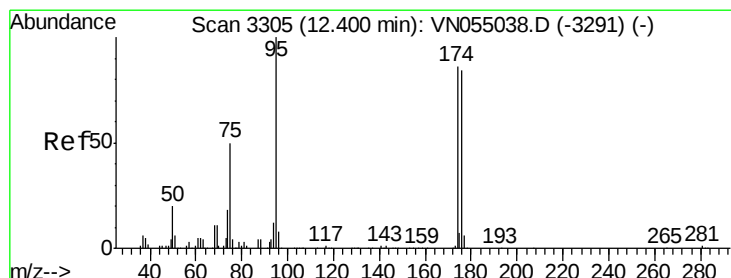
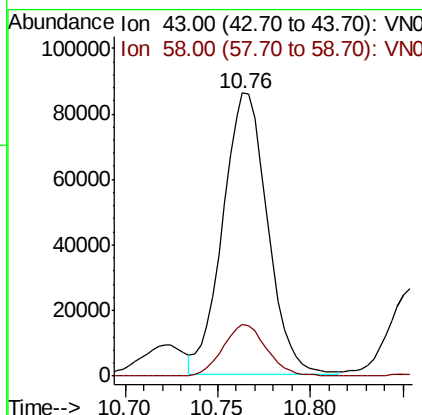
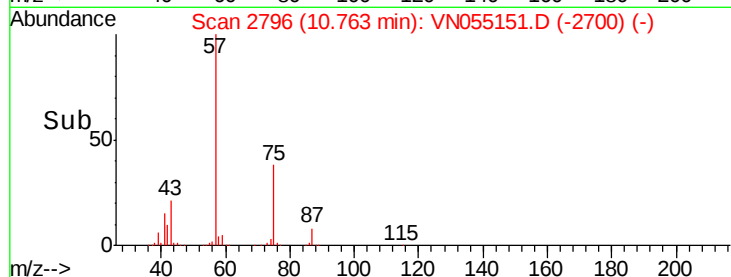
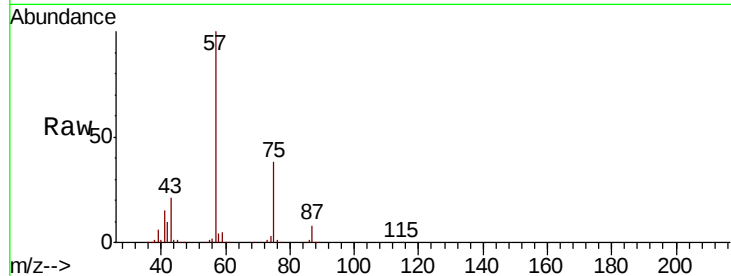




#59
2-Hexanone
Concen: 39.005 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN055151.D
Acq: 19 Apr 2019 20:47

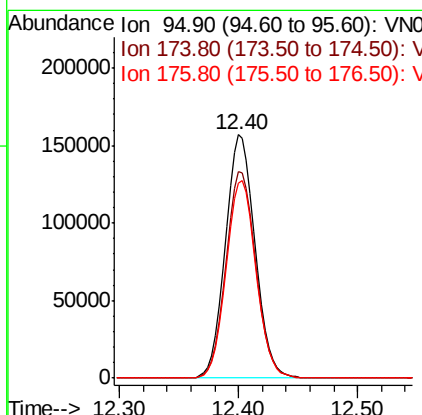
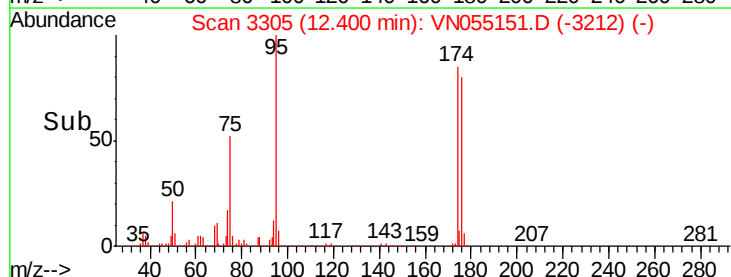
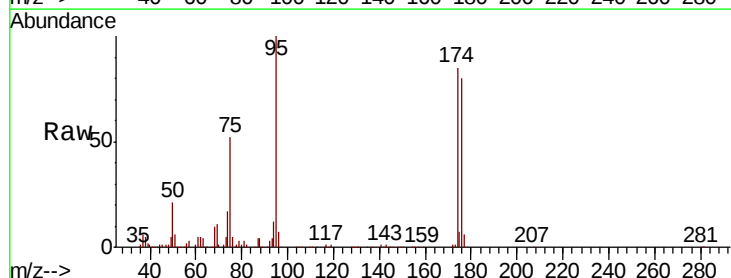
Instrument :
MSVOA_N
ClientSampleId :
PL-01-041819-C

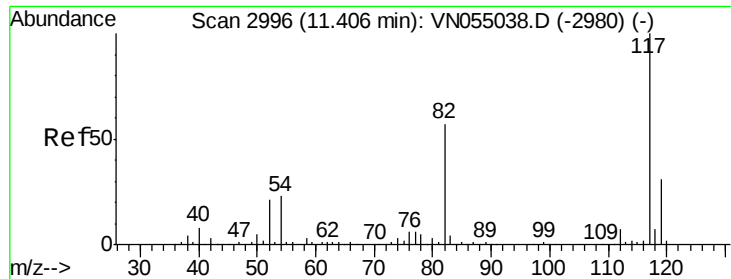
Tot Ion: 43 Resp: 144176
Ion Ratio Lower Upper
43 100
58 18.1 25.1 75.2#



#62
4-Bromofluorobenzene
Concen: 40.395 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055151.D
Acq: 19 Apr 2019 20:47

Tgt Ion: 95 Resp: 270584
Ion Ratio Lower Upper
95 100
174 85.7 0.0 174.4
176 82.1 0.0 166.8

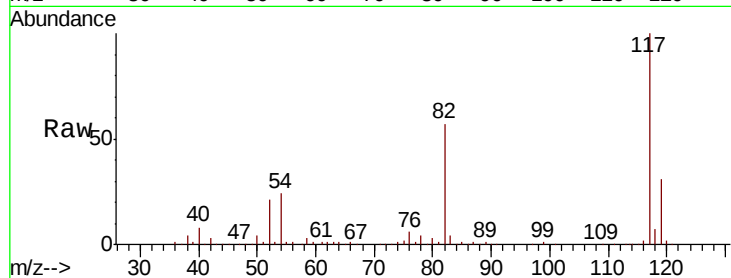




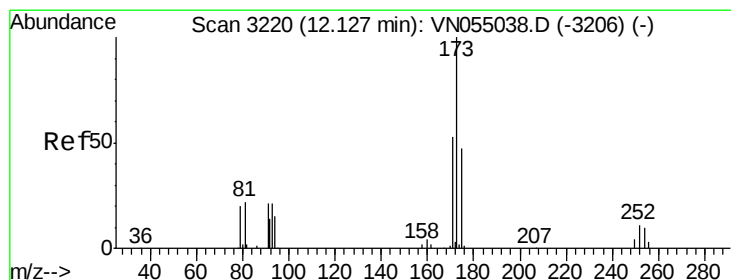
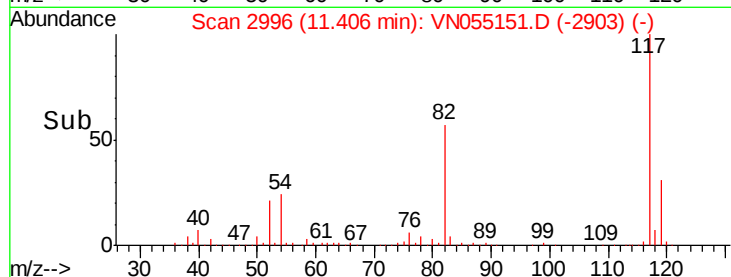
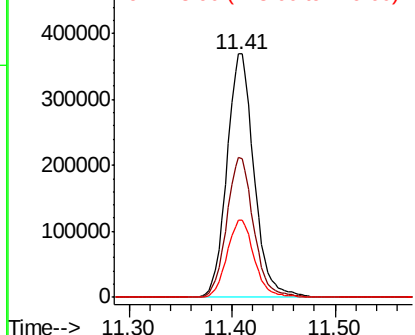
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055151.D
Acq: 19 Apr 2019 20:47

Instrument :
MSVOA_N
ClientSampleId :
PL-01-041819-C

Tot Ion:117 Resp: 676619
Ion Ratio Lower Upper
117 100
82 57.3 44.6 66.8
119 31.5 25.5 38.3

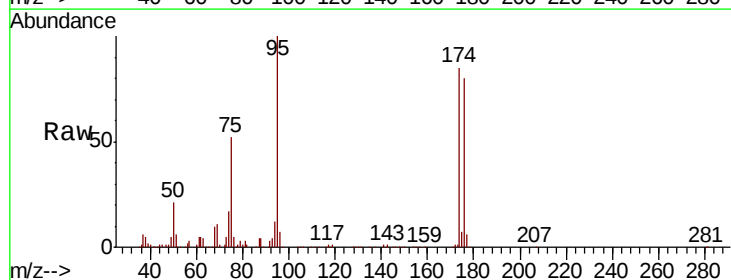


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

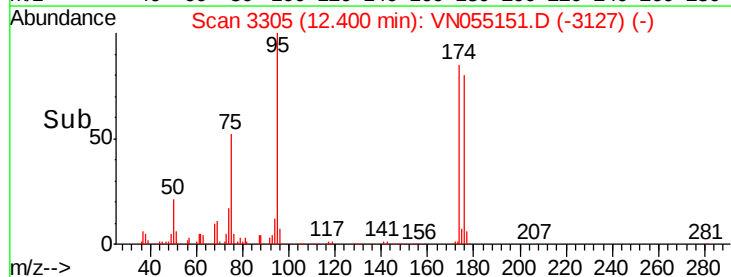
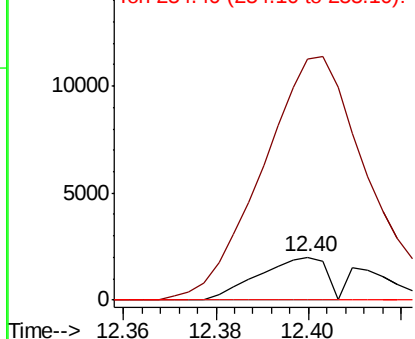


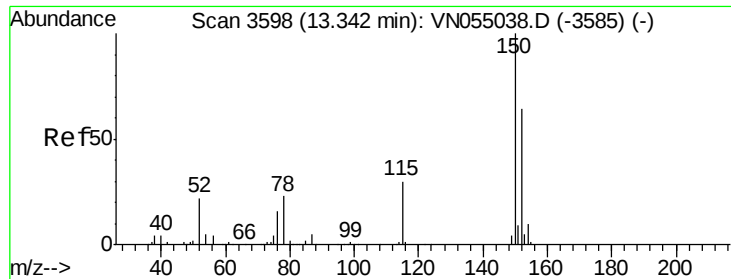
#71
Bromoform
Concen: 0.696 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN055151.D
Acq: 19 Apr 2019 20:47

Tgt Ion:173 Resp: 1997
Ion Ratio Lower Upper
173 100
175 785.8 24.3 73.0#
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN055151.D

Acq: 19 Apr 2019 20:47

Instrument :

MSVOA_N

ClientSampleId :

PL-01-041819-C

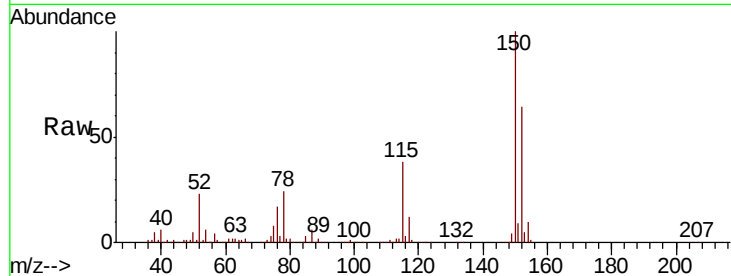
Tot Ion:152 Resp: 195059

Ion Ratio Lower Upper

152 100

115 58.0 28.5 85.6

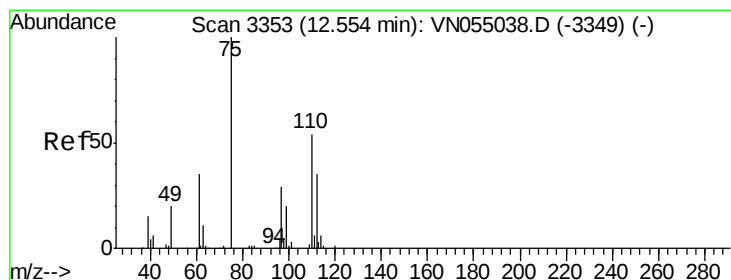
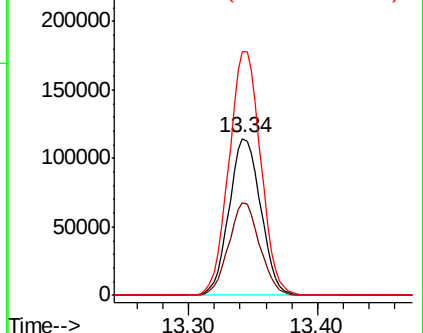
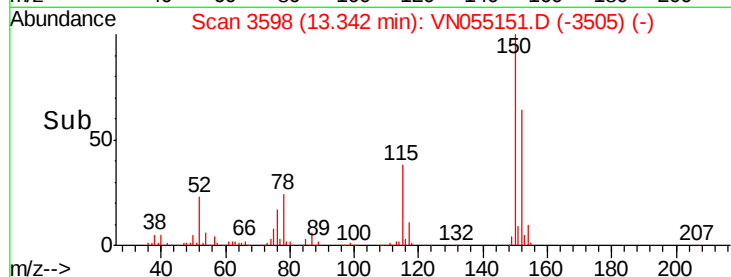
150 156.0 0.0 347.2



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: 39.499 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055151.D

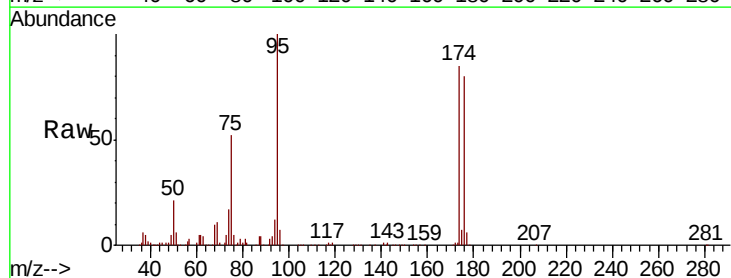
Acq: 19 Apr 2019 20:47

Tgt Ion: 75 Resp: 138549

Ion Ratio Lower Upper

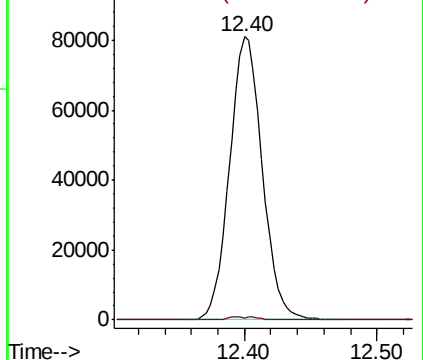
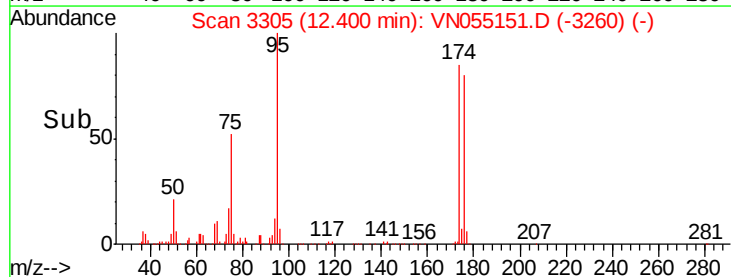
75 100

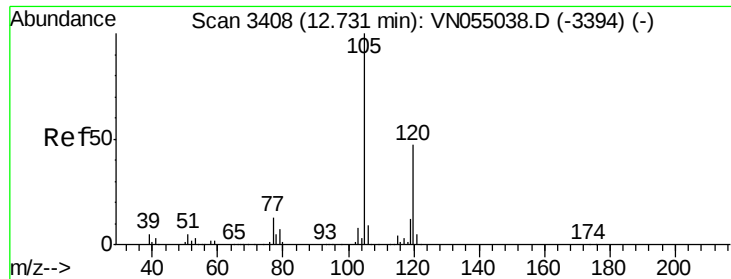
77 1.0 0.0 0.0#



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: 0.510 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055151.D

Acq: 19 Apr 2019 20:47

Instrument :

MSVOA_N

ClientSampleId :

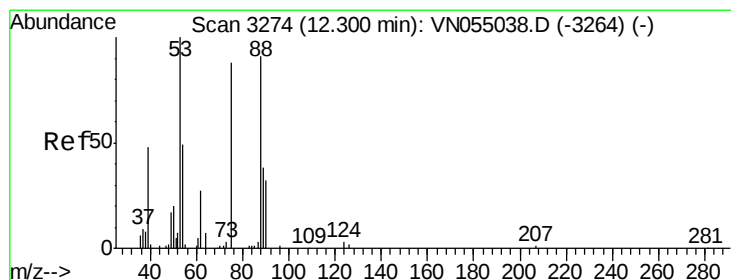
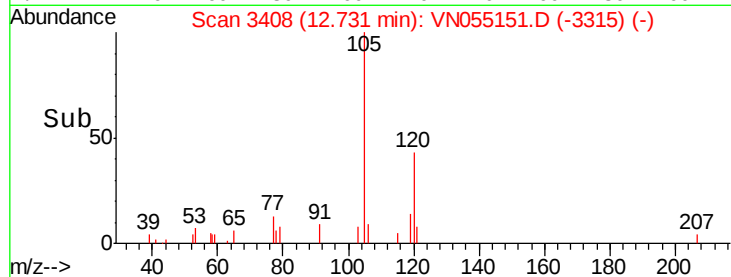
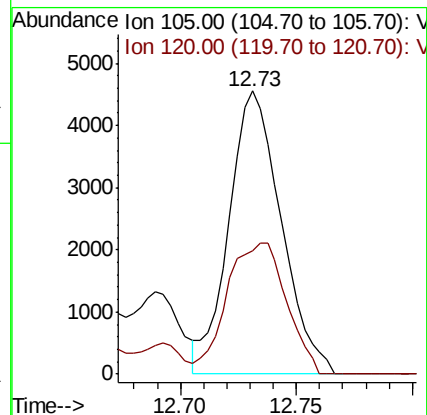
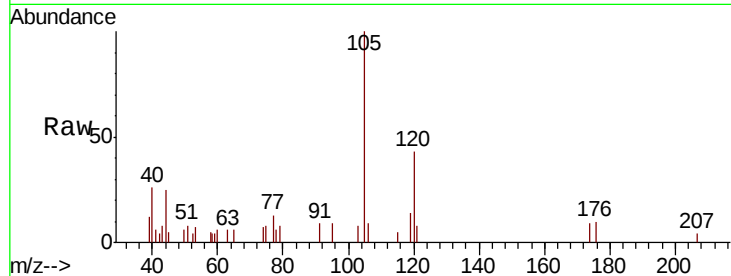
PL-01-041819-C

Tot Ion:105 Resp: 7127

Ion Ratio Lower Upper

105 100

120 52.6 24.3 72.8



#81

trans-1,4-Dichloro-2-butene

Concen: 157.952 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055151.D

Acq: 19 Apr 2019 20:47

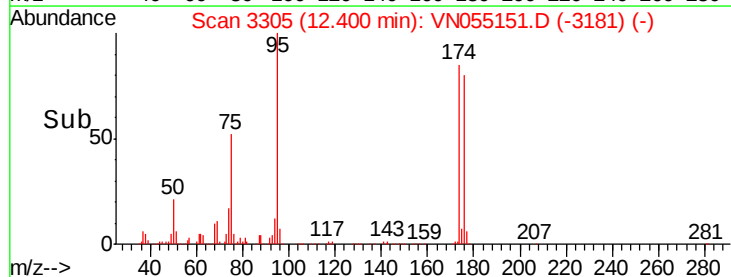
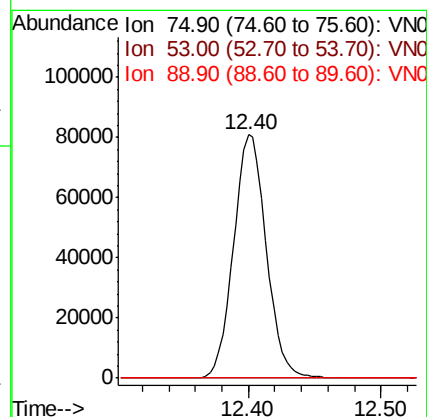
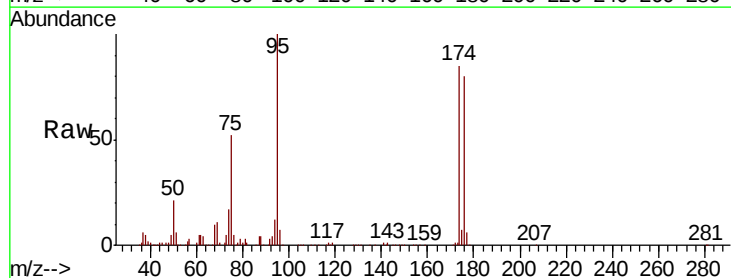
Tgt Ion: 75 Resp: 138549

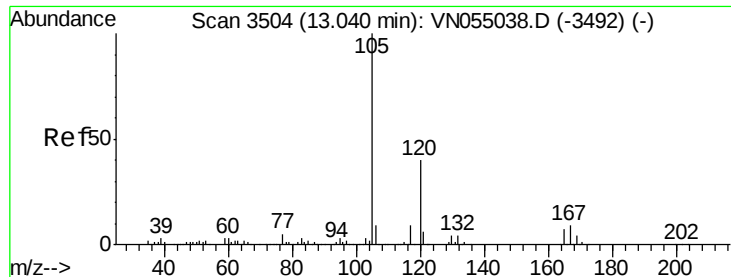
Ion Ratio Lower Upper

75 100

53 0.1 96.3 144.5#

89 0.1 38.6 57.8#





#84

1,2,4-Trimethylbenzene

Concen: 0.552 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN055151.D

Acq: 19 Apr 2019 20:47

Instrument :

MSVOA_N

ClientSampleId :

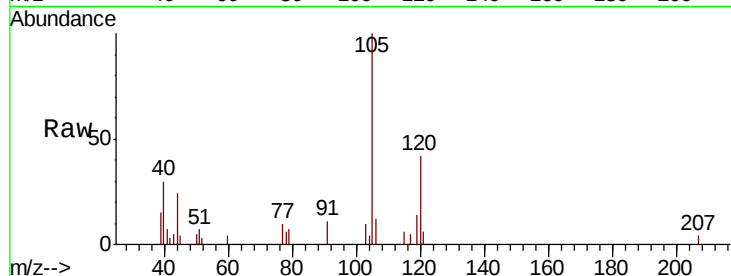
PL-01-041819-C

Tot Ion:105 Resp: 7312

Ion Ratio Lower Upper

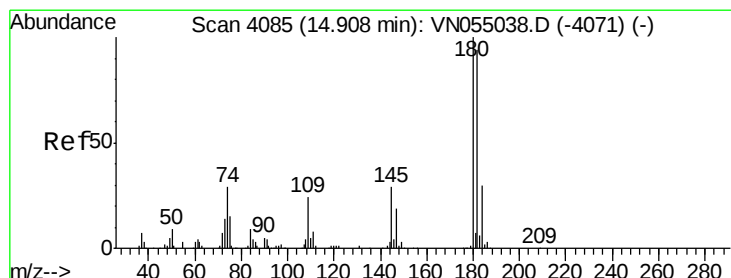
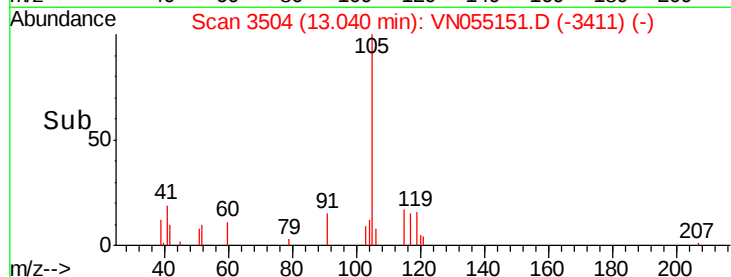
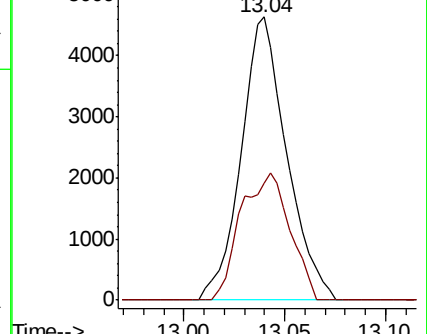
105 100

120 48.6 22.4 67.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#93

1,2,4-Trichlorobenzene

Concen: 2.687 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.01 min

Lab File: VN055151.D

Acq: 19 Apr 2019 20:47

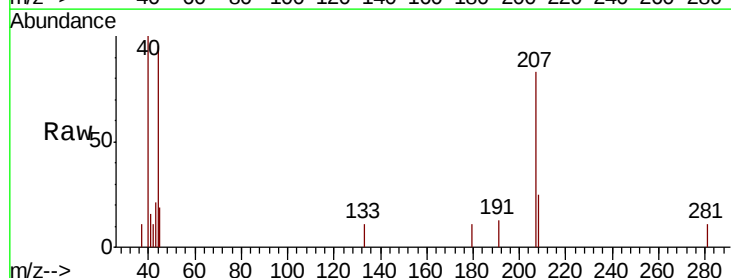
Tgt Ion:180 Resp: 30

Ion Ratio Lower Upper

180 100

182 0.0 47.5 142.6#

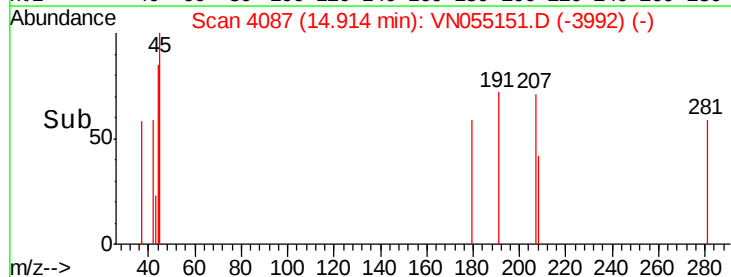
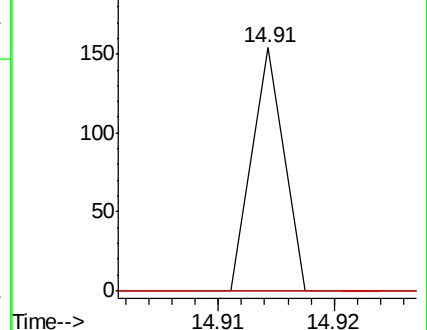
145 0.0 14.2 42.8#

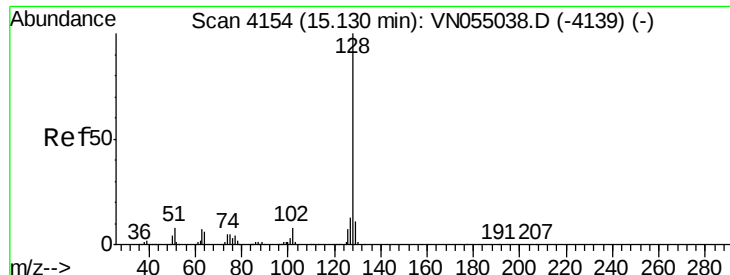


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 3.379 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN055151.D

Acq: 19 Apr 2019 20:47

Instrument :

MSVOA_N

ClientSampleId :

PL-01-041819-C

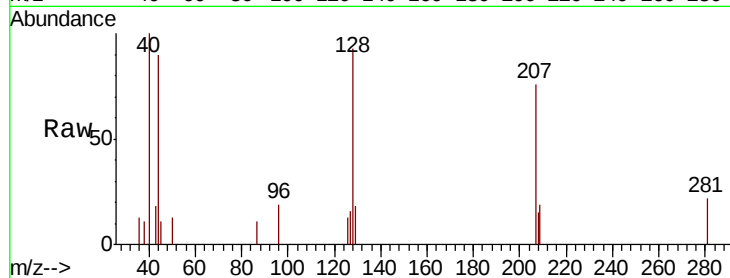
Tot Ion:128 Resp: 2230

Ion Ratio Lower Upper

128 100

127 8.5 10.1 15.1#

129 9.4 8.8 13.2



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

