

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050619\
 Data File : VN055413.D
 Acq On : 6 May 2019 12:49
 Operator : JC/SP
 Sample : K2696-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-20190502

Quant Time: May 07 01:08:22 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

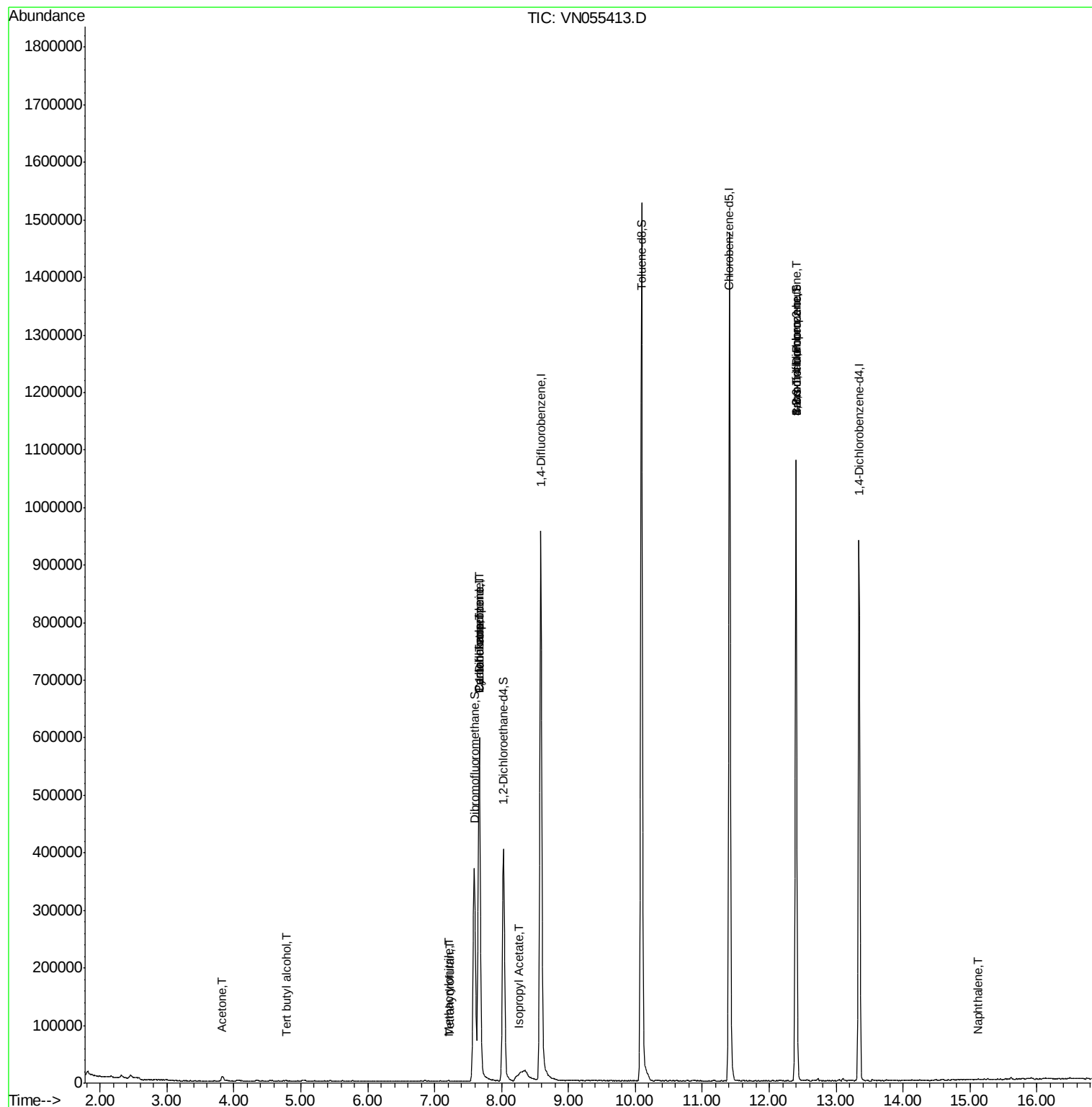
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	500051	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	876710	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	827274	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	250129	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	347998	53.20	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.40%	
35) Dibromofluoromethane	7.59	113	285411	49.60	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.20%	
50) Toluene-d8	10.09	98	1077123	51.84	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.68%	
62) 4-Bromofluorobenzene	12.40	95	369164	56.85	ug/l	0.00
Spiked Amount 50.000			Recovery	=	113.70%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.77	59	485	1.295	ug/l #	73
16) Acetone	3.83	43	14587	7.156	ug/l #	87
18) Methyl Acetate	4.33	43	1562	Below Cal	#	82
29) Tetrahydrofuran	7.23	42	363	0.217	ug/l #	40
31) Cyclohexane	7.67	56	11226	1.091	ug/l #	3
36) 1,1-Dichloropropene	7.67	75	39320	4.682	ug/l #	50
38) Carbon Tetrachloride	7.67	117	48347	5.968	ug/l #	16
41) Methacrylonitrile	7.21	41	152	0.783	ug/l #	34
43) Isopropyl Acetate	8.26	43	12311	1.190	ug/l #	56
71) Bromoform	12.40	173	2954	0.841	ug/l #	1
73) Isopropylbenzene	12.24	105	184	Below Cal	#	49
75) 1,1,2,2-Tetrachloroethane	12.39	83	279	Below Cal	#	3
76) 1,2,3-Trichloropropane	12.40	75	189041	40.165	ug/l #	100
77) Bromobenzene	12.52	156	211	Below Cal	#	1
79) 2-Chlorotoluene	12.66	91	86	Below Cal	#	42
81) trans-1,4-Dichloro-2-buten	12.40	75	189041	143.224	ug/l #	7
83) tert-Butylbenzene	12.99	119	63	Below Cal	#	25
90) Hexachloroethane	13.99	117	285	Below Cal	#	7
95) Naphthalene	15.13	128	549	3.402	ug/l #	69

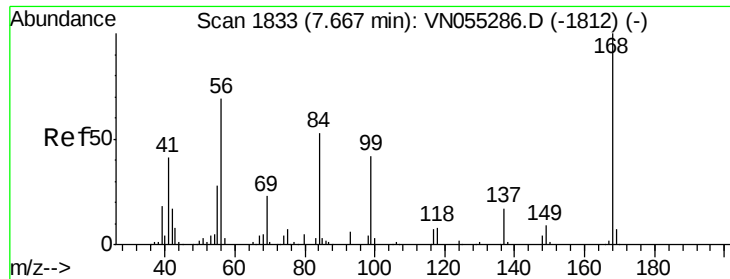
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 07 01:08:22 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N042919W.M
Quant Title : SW846 8260
QLast Update : Tue Apr 30 07:16:52 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055413.D

Acq: 6 May 2019 12:49

Instrument :

MSVOA_N

ClientSampleId :

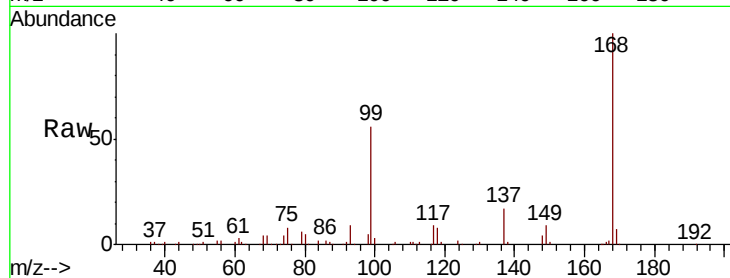
WC-20190502

Tot Ion:168 Resp: 500051

Ion Ratio Lower Upper

168 100

99 55.6 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

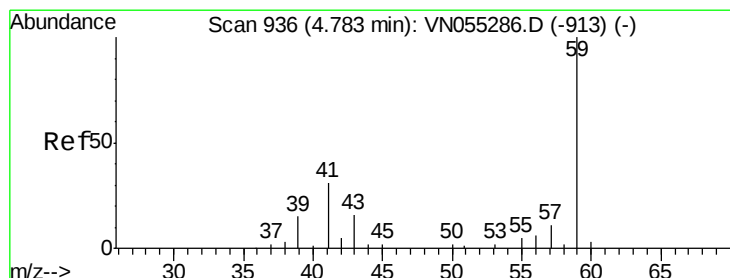
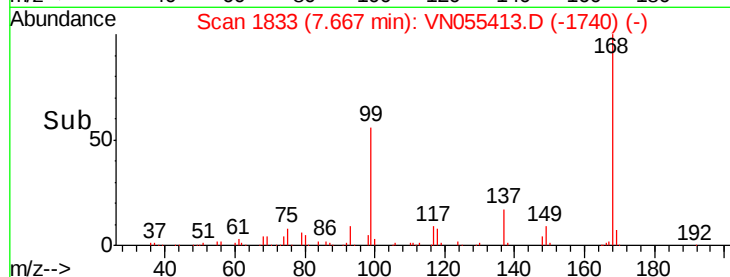
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.295 ug/l

RT: 4.77 min Scan# 933

Delta R.T. -0.01 min

Lab File: VN055413.D

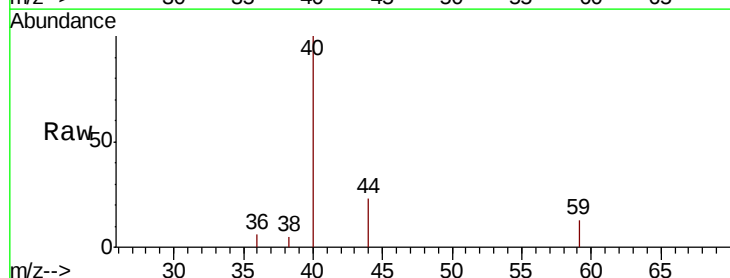
Acq: 6 May 2019 12:49

Tgt Ion: 59 Resp: 485

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.77

400

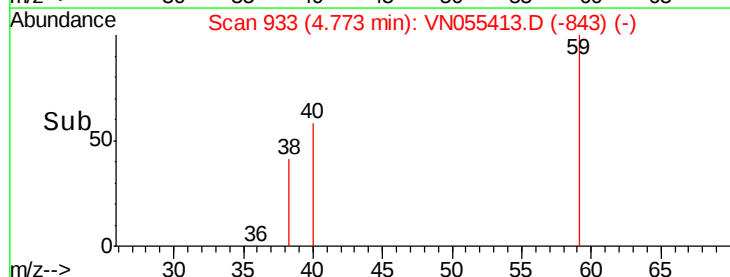
300

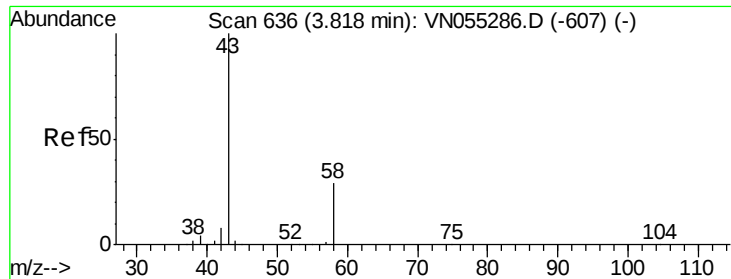
200

100

0

Time-->

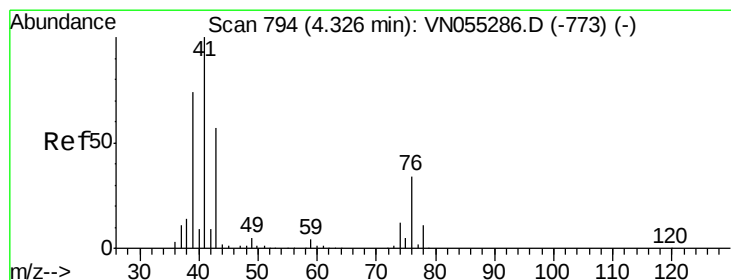
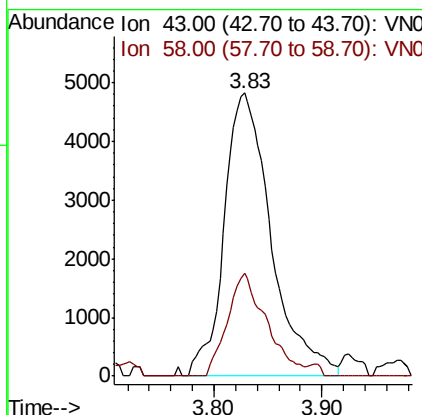
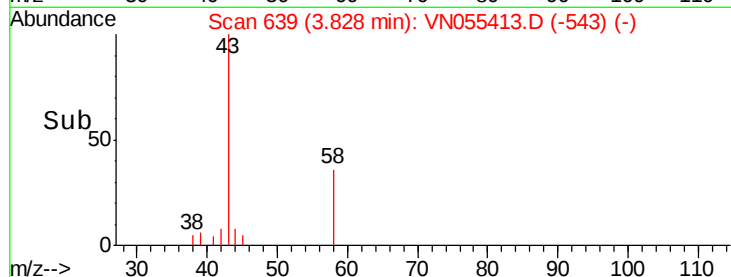
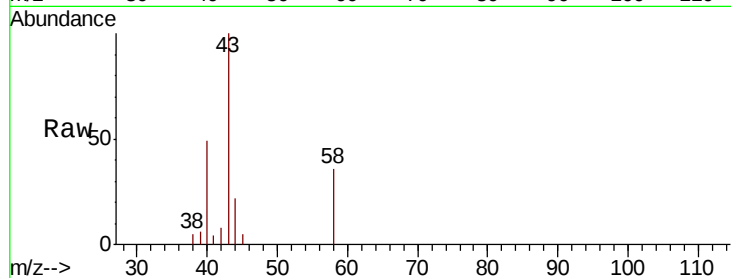




#16
Acetone
Concen: 7.156 ug/l
RT: 3.83 min Scan# 639
Delta R.T. 0.01 min
Lab File: VN055413.D
Acq: 6 May 2019 12:49

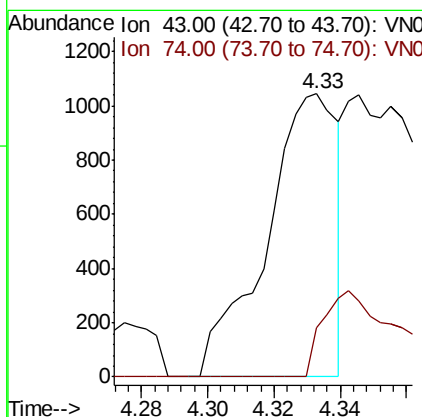
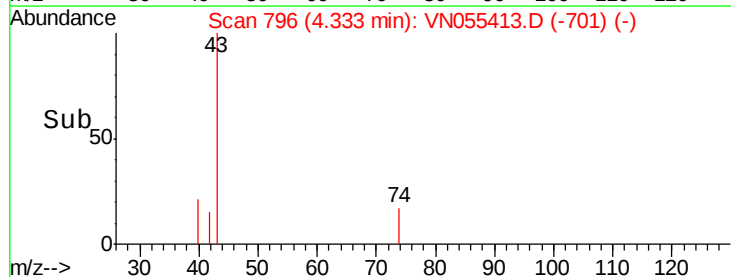
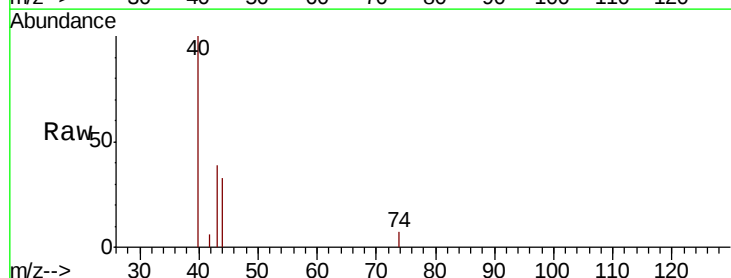
Instrument :
MSVOA_N
ClientSampled :
WC-20190502

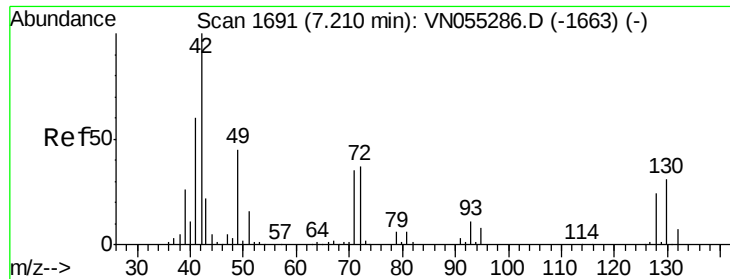
Tot Ion: 43 Resp: 14587
Ion Ratio Lower Upper
43 100
58 36.3 23.6 35.4#



#18
Methyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN055413.D
Acq: 6 May 2019 12:49

Tgt Ion: 43 Resp: 1562
Ion Ratio Lower Upper
43 100
74 27.9 15.8 23.8#

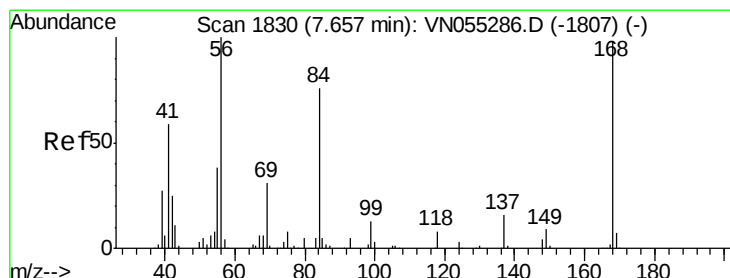
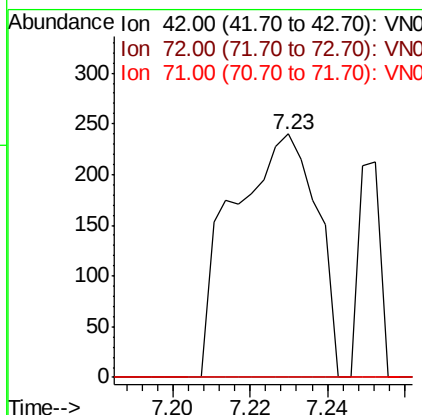
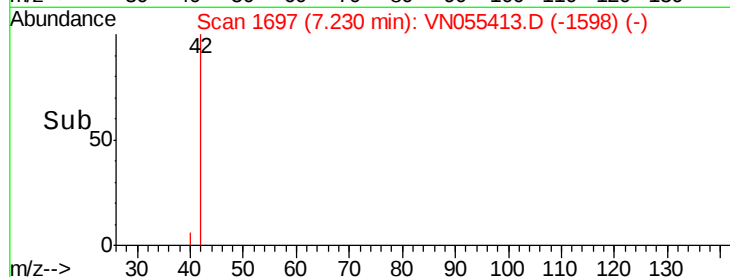
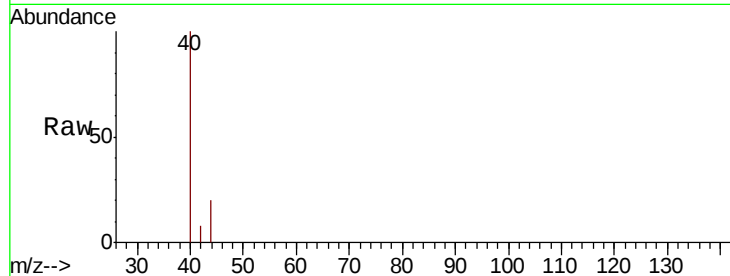




#29
Tetrahydrofuran
Concen: 0.217 ug/l
RT: 7.23 min Scan# 1697
Delta R.T. 0.02 min
Lab File: VN055413.D
Acq: 6 May 2019 12:49

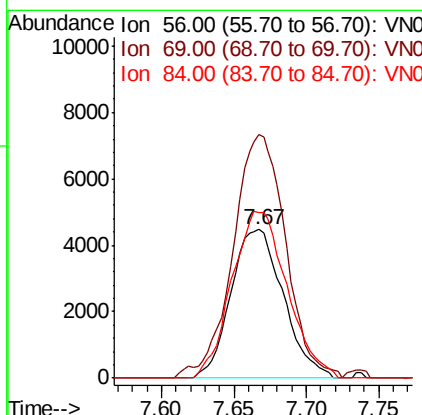
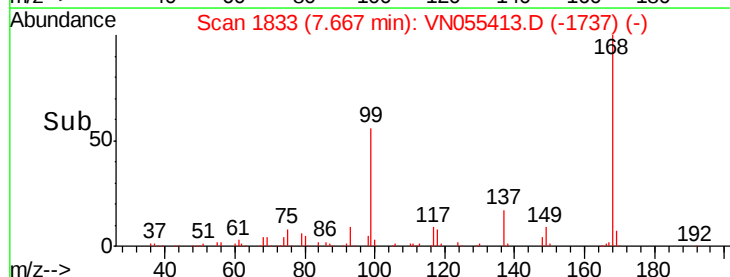
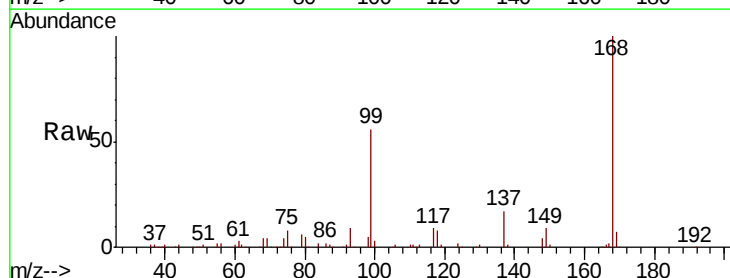
Instrument :
MSVOA_N
ClientSampleId :
WC-20190502

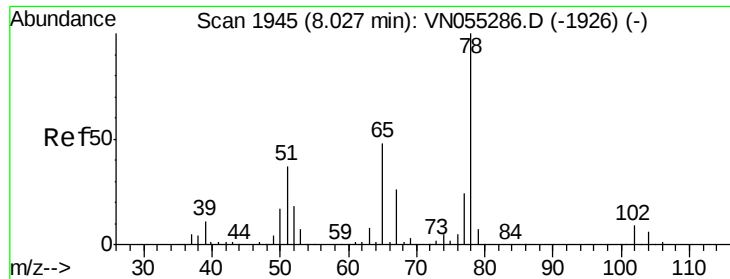
Tot Ion: 42 Resp: 363
Ion Ratio Lower Upper
42 100
72 0.0 29.0 43.6#
71 0.0 27.1 40.7#



#31
Cyclohexane
Concen: 1.091 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN055413.D
Acq: 6 May 2019 12:49

Tgt Ion: 56 Resp: 11226
Ion Ratio Lower Upper
56 100
69 159.5 25.2 37.8#
84 111.8 61.1 91.7#

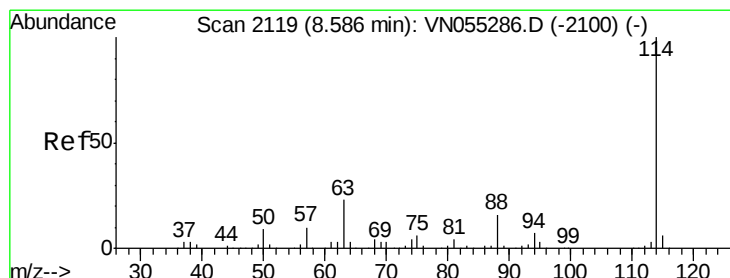
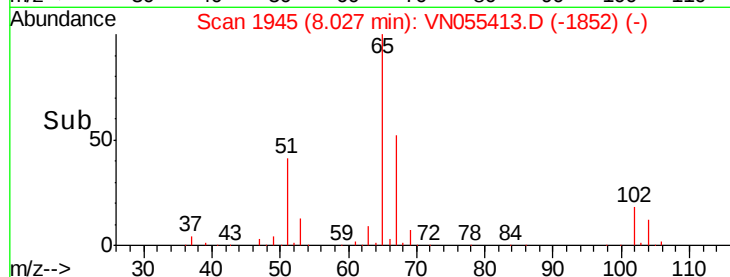
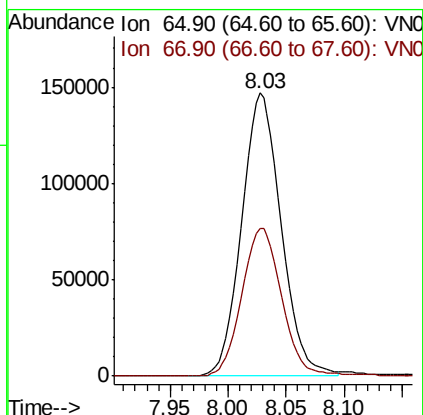
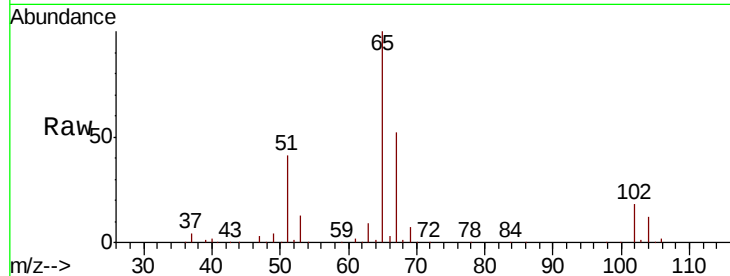




#33
 1,2-Dichloroethane-d4
 Concen: 53.196 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055413.D
 Acq: 6 May 2019 12:49

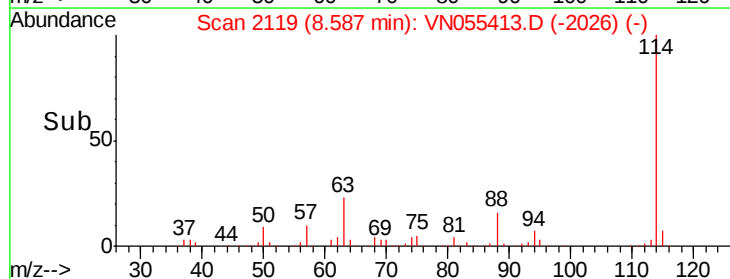
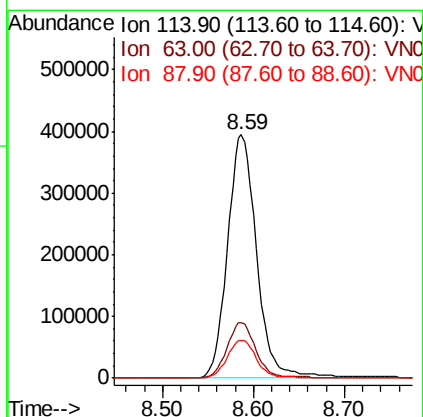
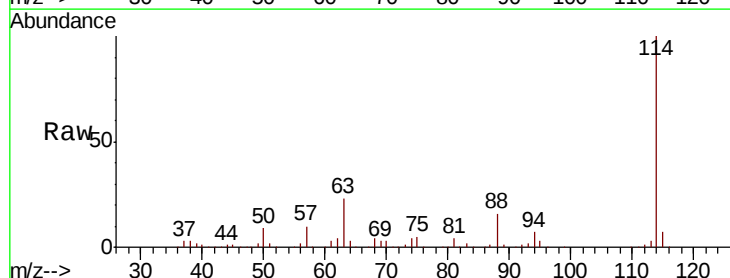
Instrument :
 MSVOA_N
 ClientSampleId :
 WC-20190502

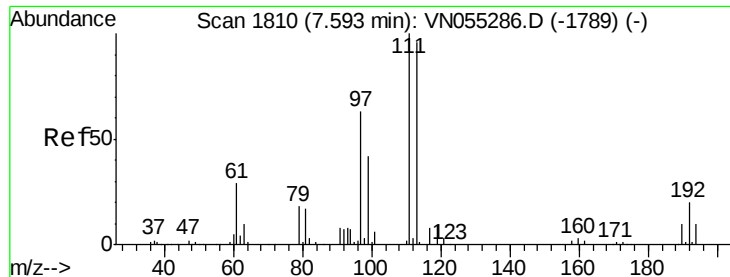
Tot Ion: 65 Resp: 347998
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055413.D
 Acq: 6 May 2019 12:49

Tgt Ion: 114 Resp: 876710
 Ion Ratio Lower Upper
 114 100
 63 23.0 0.0 45.2
 88 15.7 0.0 31.6





#35

Dibromofluoromethane

Concen: 49.598 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN055413.D

Acq: 6 May 2019 12:49

Instrument :

MSVOA_N

ClientSampleId :

WC-20190502

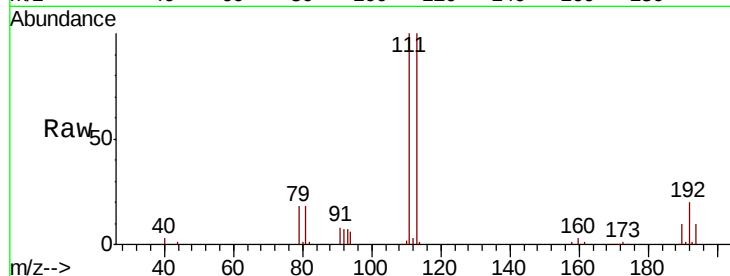
Tot Ion:113 Resp: 285411

Ion Ratio Lower Upper

113 100

111 102.2 82.3 123.5

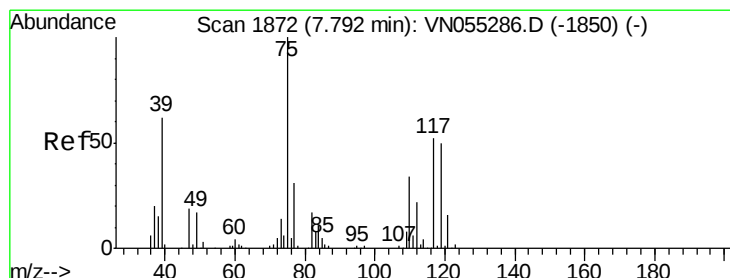
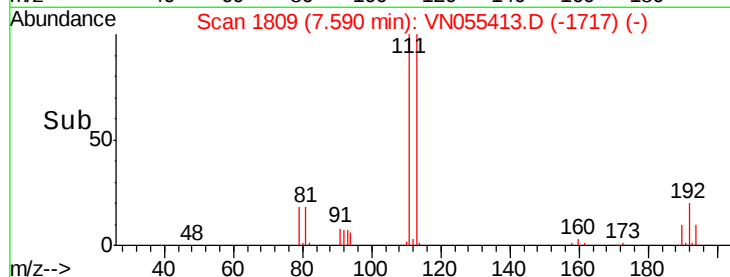
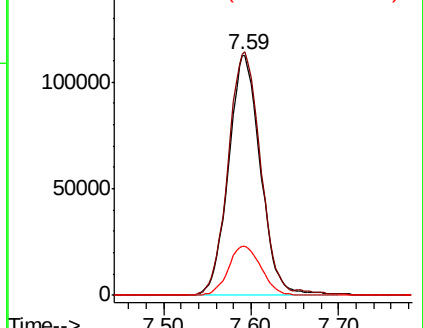
192 21.0 17.0 25.6



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: 4.682 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN055413.D

Acq: 6 May 2019 12:49

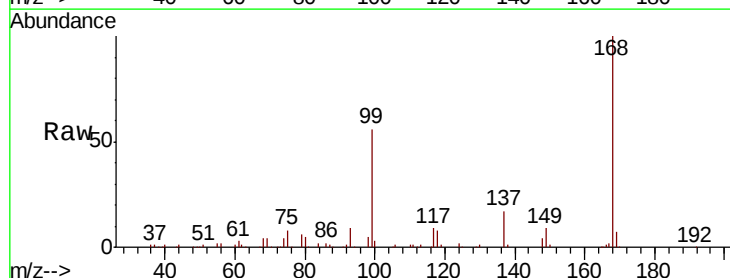
Tgt Ion: 75 Resp: 39320

Ion Ratio Lower Upper

75 100

110 8.4 16.8 50.4#

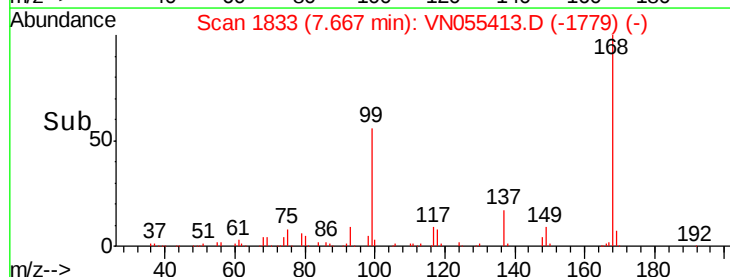
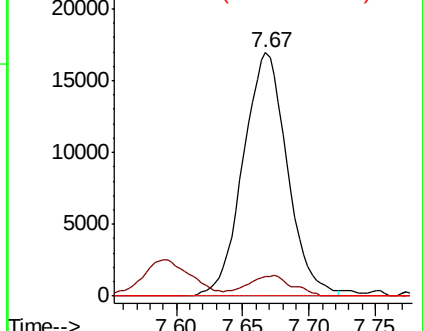
77 0.0 25.0 37.6#

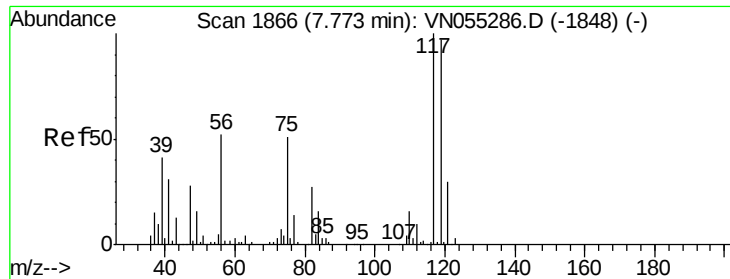


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VNO





#38

Carbon Tetrachloride

Concen: 5.968 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.10 min

Lab File: VN055413.D

Acq: 6 May 2019 12:49

Instrument :

MSVOA_N

ClientSampleId :

WC-20190502

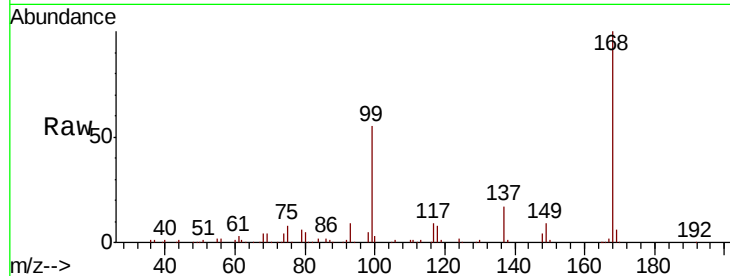
Tot Ion:117 Resp: 48347

Ion Ratio Lower Upper

117 100

119 5.5 77.0 115.6#

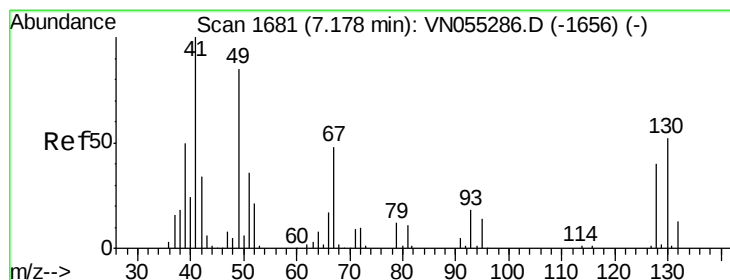
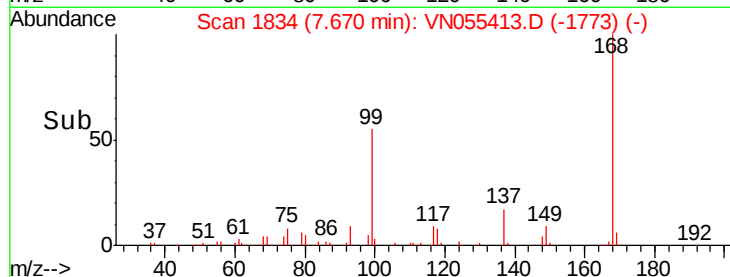
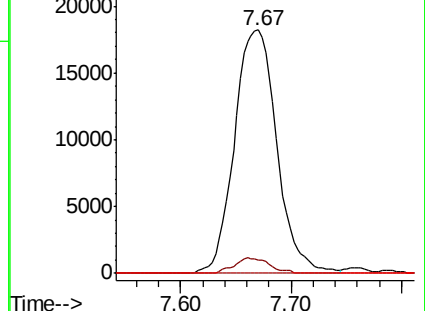
121 0.0 23.8 35.8#



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: 0.783 ug/l

RT: 7.21 min Scan# 1691

Delta R.T. 0.03 min

Lab File: VN055413.D

Acq: 6 May 2019 12:49

Tgt Ion: 41 Resp: 152

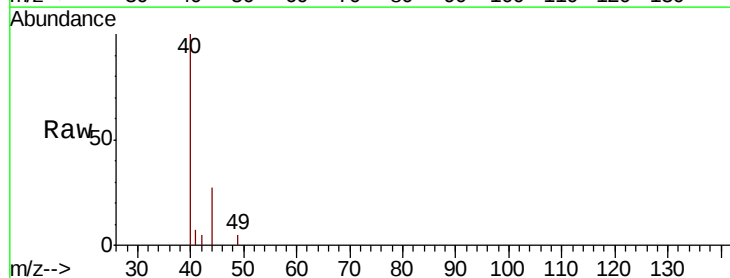
Ion Ratio Lower Upper

41 100

39 22.4 48.5 72.7#

67 0.0 54.9 82.3#

52 0.0 24.9 37.3#

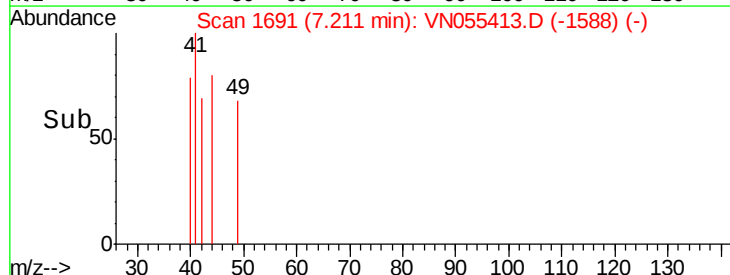
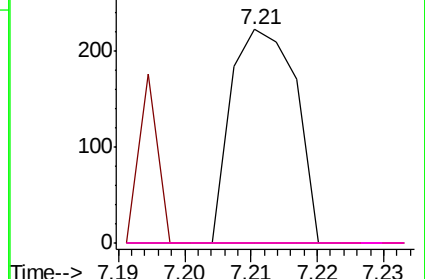


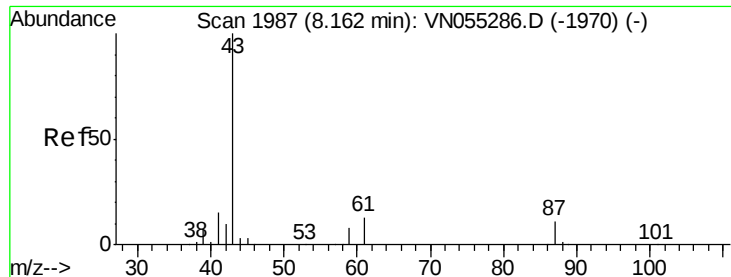
Abundance Ion 41.00 (40.70 to 41.70): V

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: 1.190 ug/l

RT: 8.26 min Scan# 2016

Delta R.T. 0.09 min

Lab File: VN055413.D

Acq: 6 May 2019 12:49

Instrument :

MSVOA_N

ClientSampleId :

WC-20190502

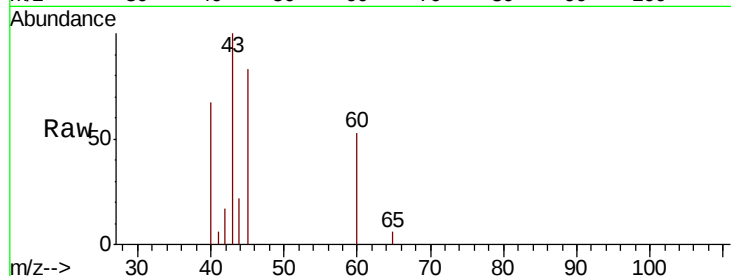
Tot Ion: 43 Resp: 12311

Ion Ratio Lower Upper

43 100

61 0.0 20.8 31.2#

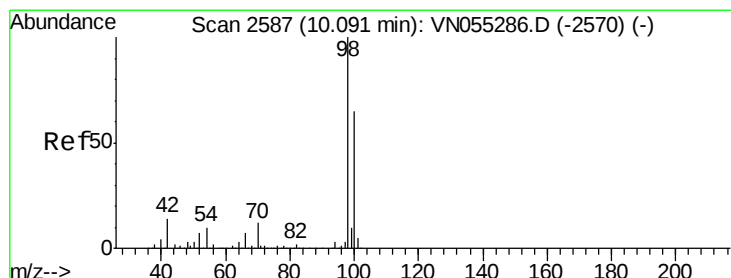
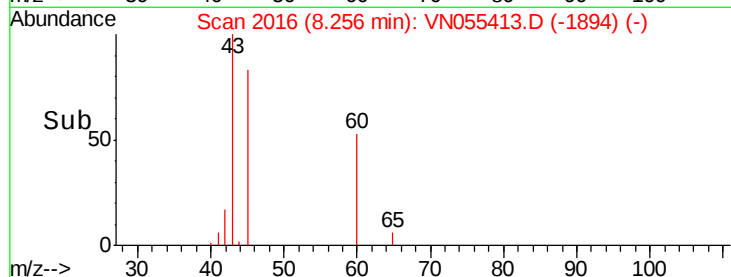
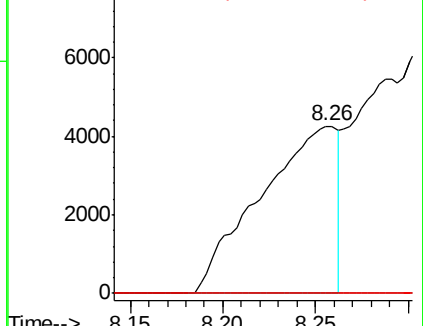
87 0.0 8.5 12.7#



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



#50

Toluene-d8

Concen: 51.838 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055413.D

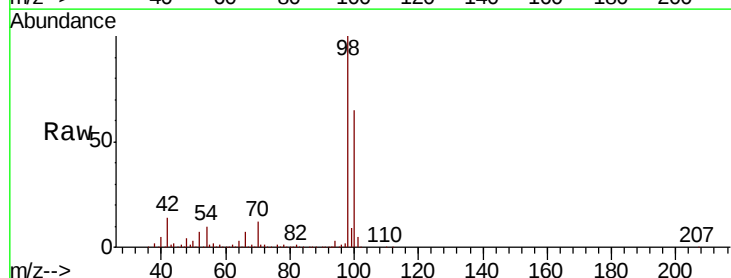
Acq: 6 May 2019 12:49

Tgt Ion: 98 Resp: 1077123

Ion Ratio Lower Upper

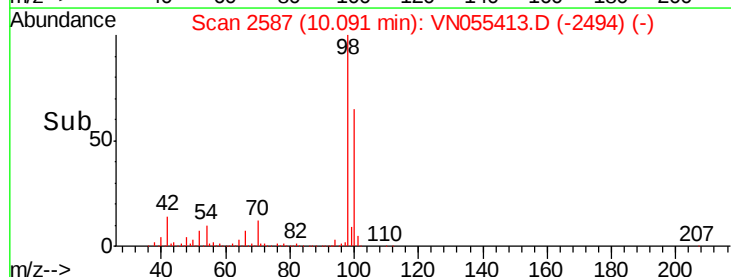
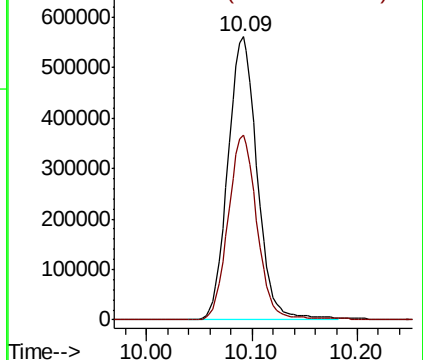
98 100

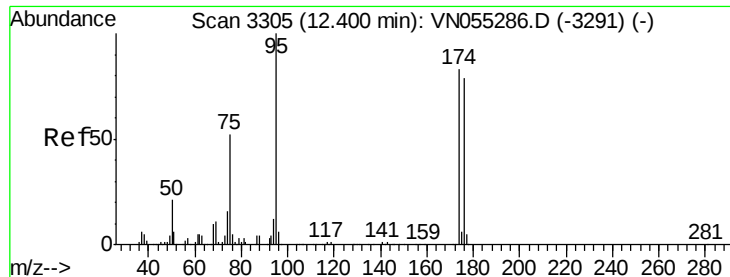
100 65.0 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

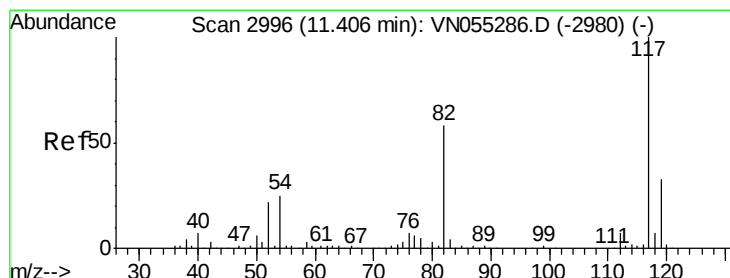
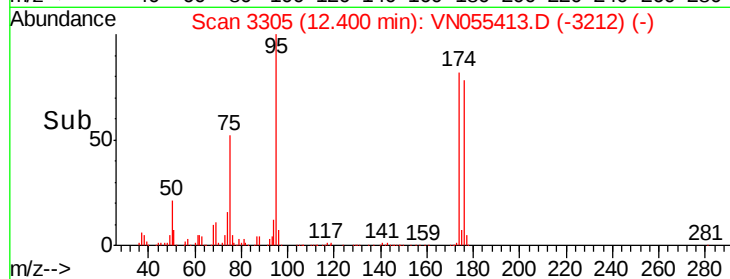
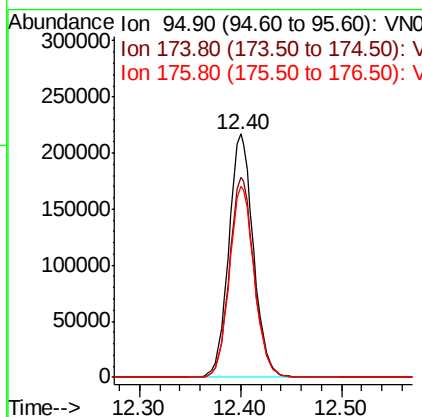
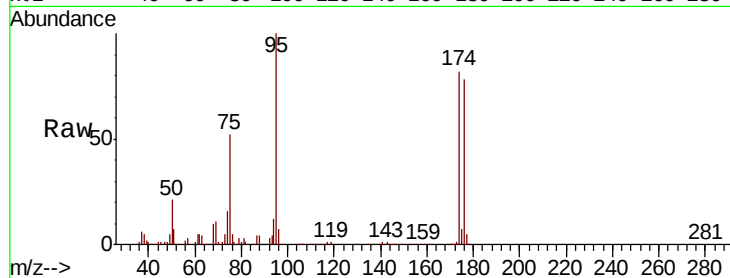




#62
4-Bromofluorobenzene
Concen: 56.846 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055413.D
Acq: 6 May 2019 12:49

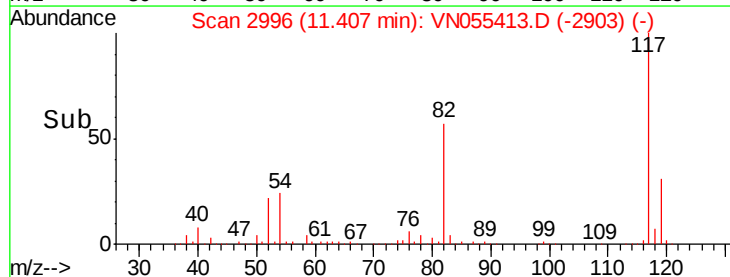
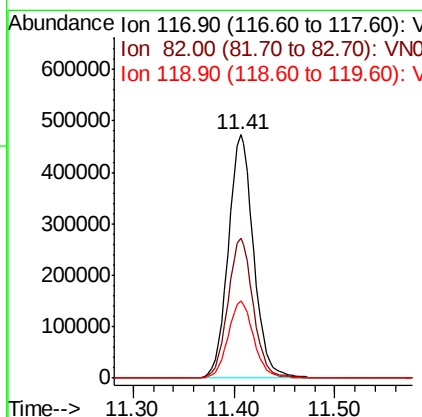
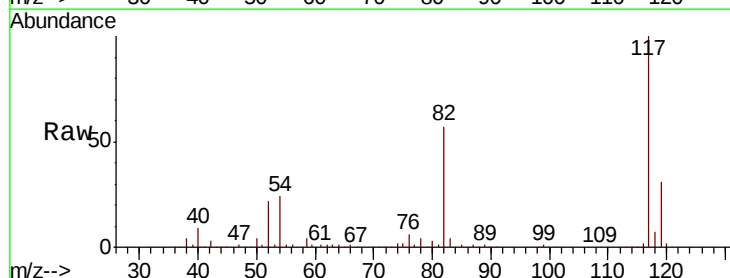
Instrument :
MSVOA_N
ClientSampled :
WC-20190502

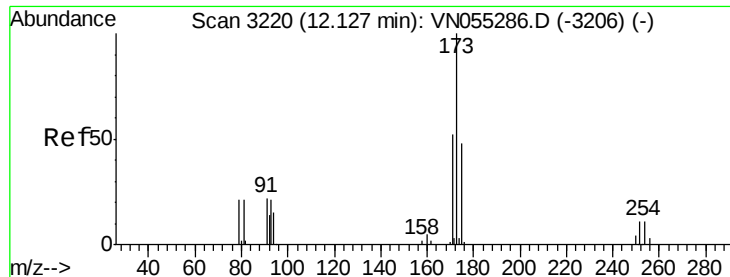
Tot Ion: 95 Resp: 369164
Ion Ratio Lower Upper
95 100
174 81.9 0.0 166.6
176 79.0 0.0 157.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055413.D
Acq: 6 May 2019 12:49

Tgt Ion: 117 Resp: 827274
Ion Ratio Lower Upper
117 100
82 57.5 46.2 69.4
119 31.5 26.6 40.0





#71

Bromoform

Concen: 0.841 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN055413.D

Acq: 6 May 2019 12:49

Instrument :

MSVOA_N

ClientSampleId :

WC-20190502

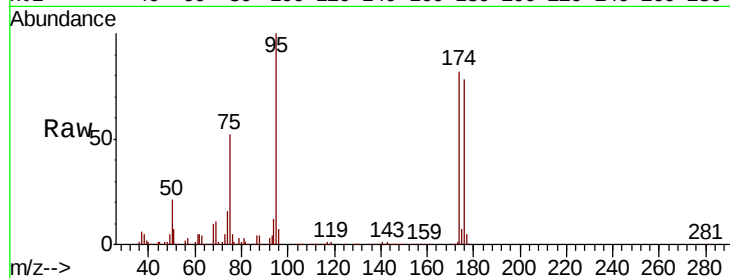
Tot Ion:173 Resp: 2954

Ion Ratio Lower Upper

173 100

175 695.2 23.6 71.0#

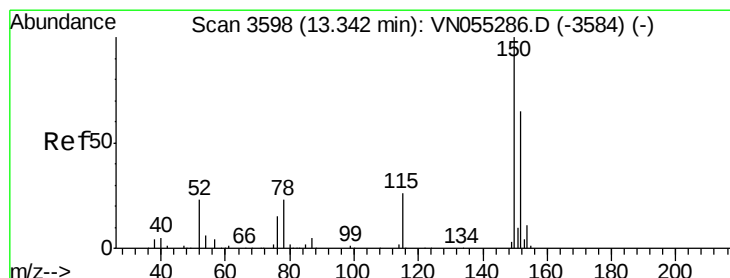
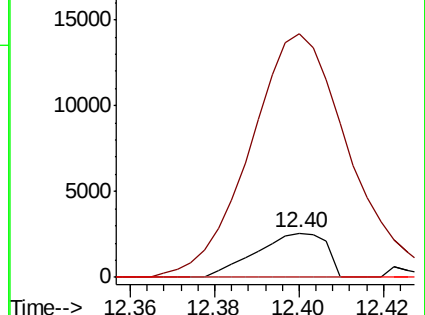
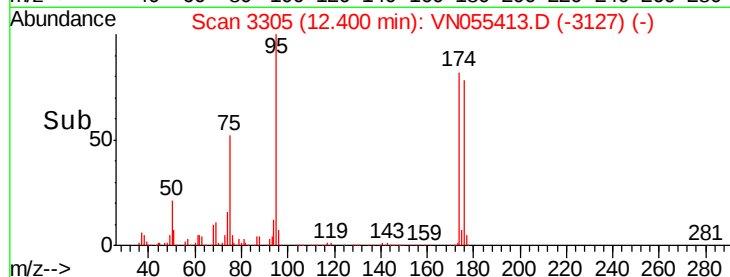
254 0.0 0.0 0.0



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: VN055413.D

Acq: 6 May 2019 12:49

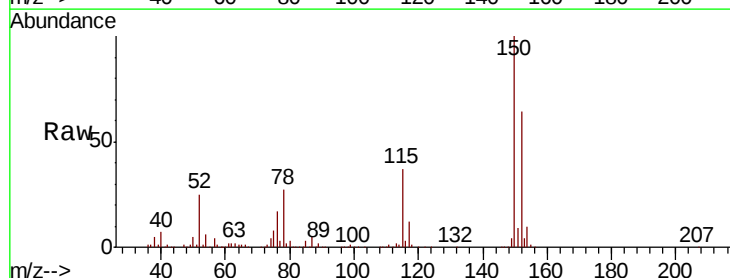
Tgt Ion:152 Resp: 250129

Ion Ratio Lower Upper

152 100

115 58.4 29.0 87.0

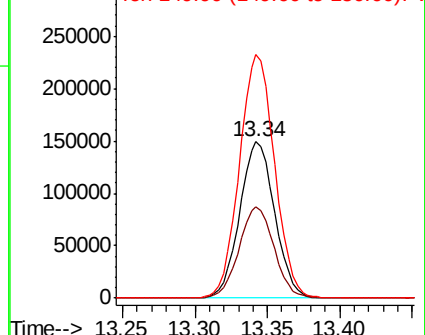
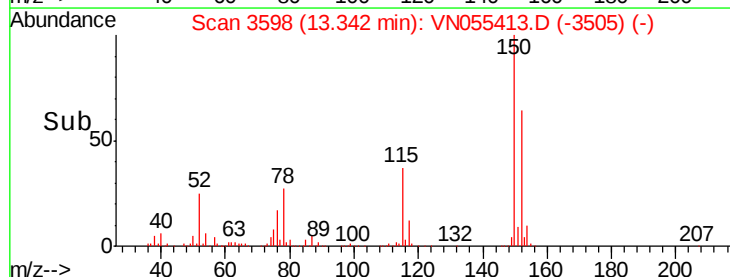
150 156.3 0.0 345.6

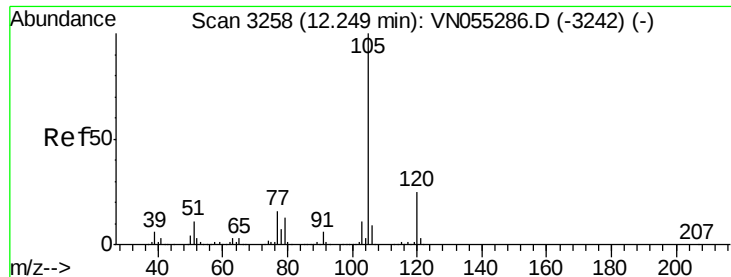


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.24 min Scan# 3256

Delta R.T. -0.01 min

Lab File: VN055413.D

Acq: 6 May 2019 12:49

Instrument :

MSVOA_N

ClientSampled :

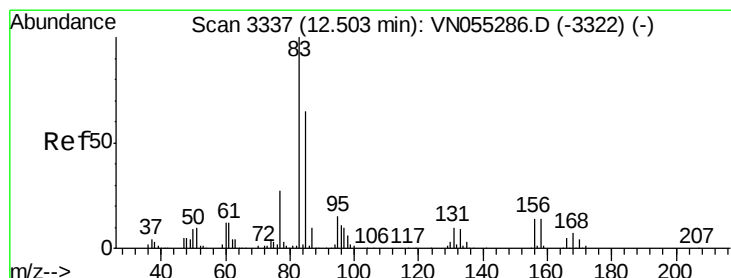
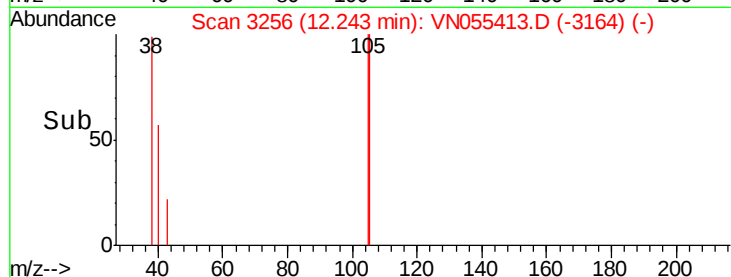
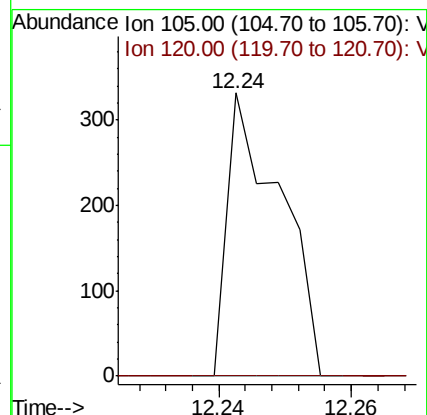
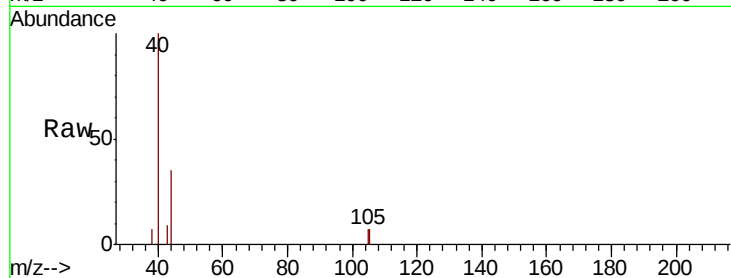
WC-20190502

Tot Ion: 105 Resp: 184

Ion Ratio Lower Upper

105 100

120 0.0 12.9 38.7#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.39 min Scan# 3303

Delta R.T. -0.11 min

Lab File: VN055413.D

Acq: 6 May 2019 12:49

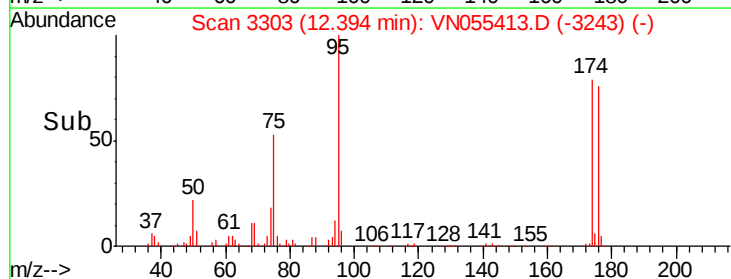
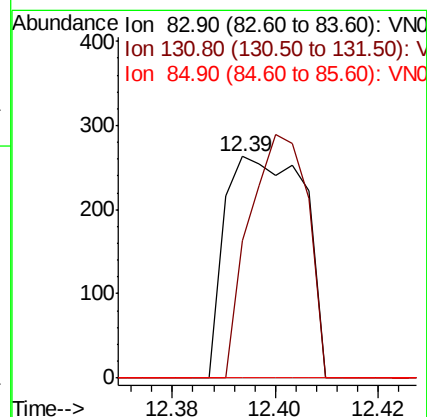
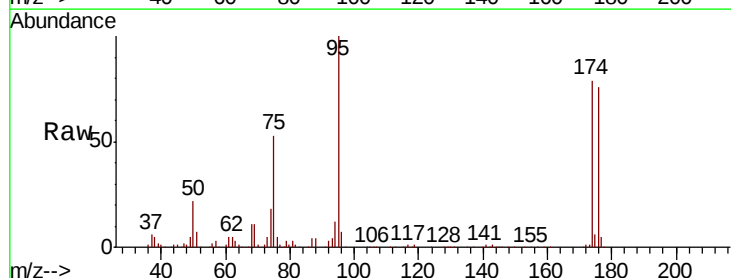
Tgt Ion: 83 Resp: 279

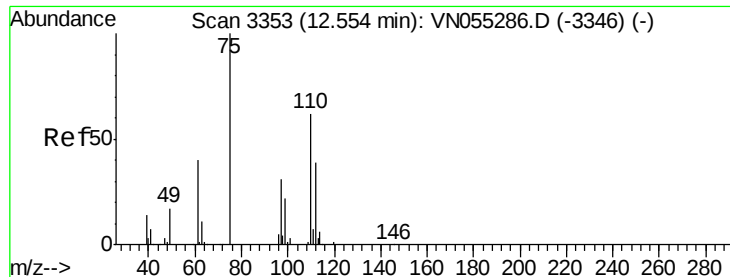
Ion Ratio Lower Upper

83 100

131 81.0 5.1 15.2#

85 0.0 32.3 96.8#





#76

1,2,3-Trichloropropane

Concen: 40.165 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055413.D

Acq: 6 May 2019 12:49

Instrument :

MSVOA_N

ClientSampled :

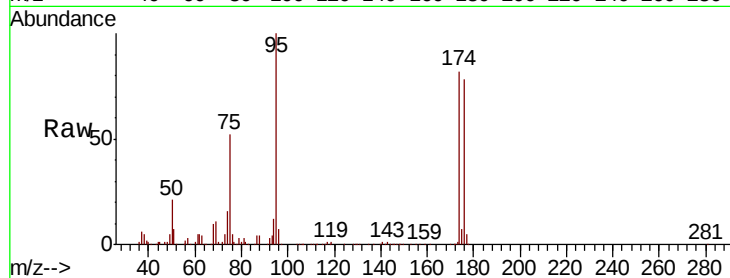
WC-20190502

Tot Ion: 75 Resp: 189041

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN055413.D (-3260) (-)

Ion 77.00 (76.70 to 77.70): VN055413.D (-3260) (-)

12.40

120000

100000

80000

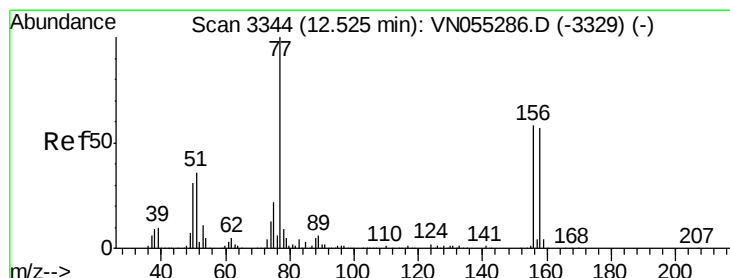
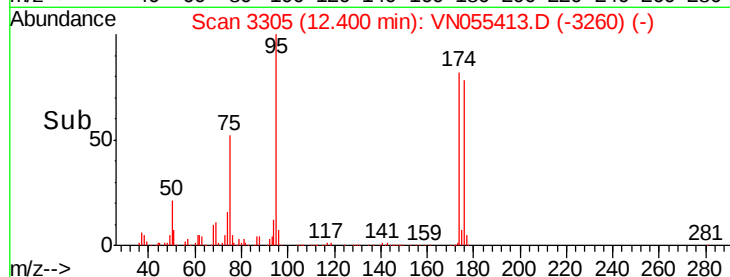
60000

40000

20000

0

Time-->



#77

Bromobenzene

Concen: Below Cal

RT: 12.52 min Scan# 3341

Delta R.T. -0.01 min

Lab File: VN055413.D

Acq: 6 May 2019 12:49

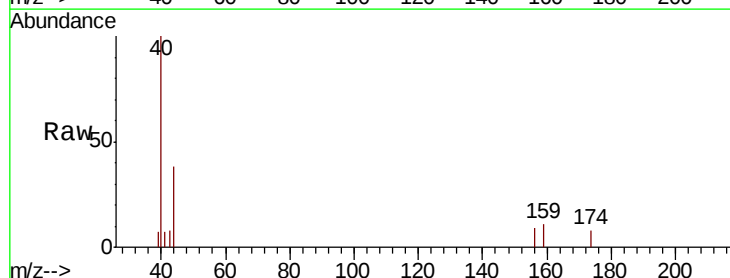
Tgt Ion: 156 Resp: 211

Ion Ratio Lower Upper

156 100

77 0.0 99.6 298.8#

158 0.0 49.3 147.8#



Abundance Ion 155.80 (155.50 to 156.50): VN055413.D (-3251) (-)

Ion 77.00 (76.70 to 77.70): VN055413.D (-3251) (-)

Ion 157.80 (157.50 to 158.50): VN055413.D (-3251) (-)

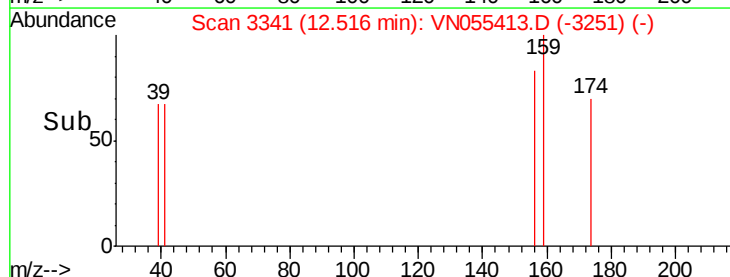
300

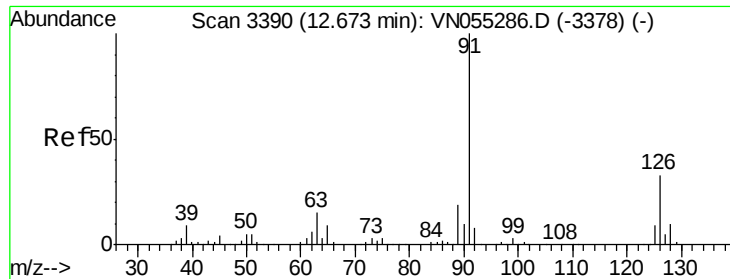
200

100

0

Time-->





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.66 min Scan# 3387

Delta R.T. -0.01 min

Lab File: VN055413.D

Acq: 6 May 2019 12:49

Instrument :

MSVOA_N

ClientSampleId :

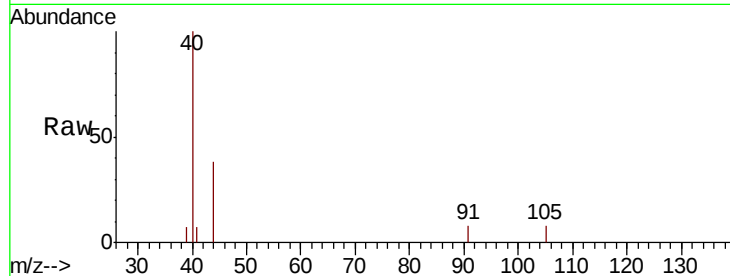
WC-20190502

Tot Ion: 91 Resp: 86

Ion Ratio Lower Upper

91 100

126 0.0 16.6 49.7#



Abundance Ion 91.00 (90.70 to 91.70): VNO

Ion 125.90 (125.60 to 126.60): V

12.66

250

200

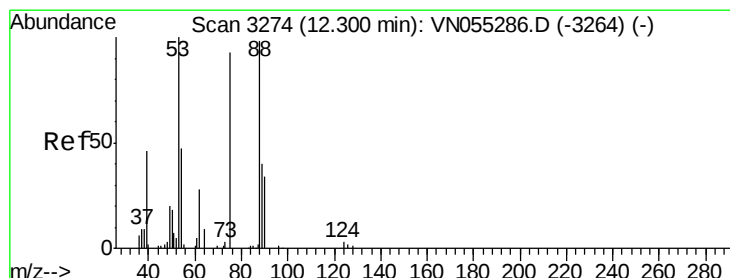
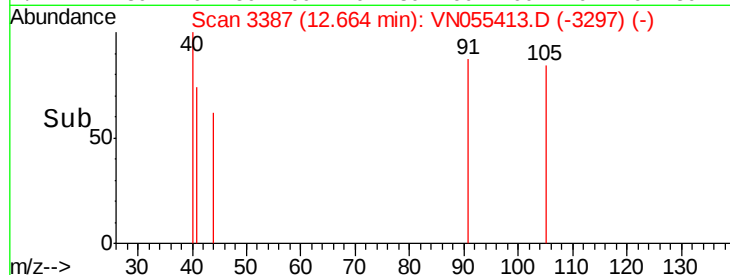
150

100

50

0

Time--> 12.65 12.66 12.67



#81

trans-1,4-Dichloro-2-butene

Concen: 143.224 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055413.D

Acq: 6 May 2019 12:49

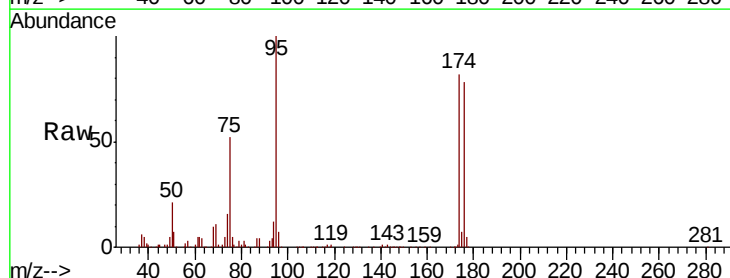
Tgt Ion: 75 Resp: 189041

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

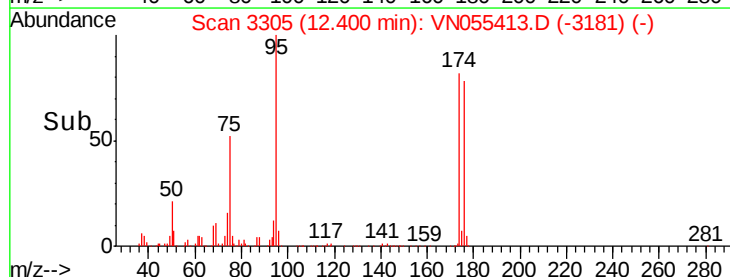
150000

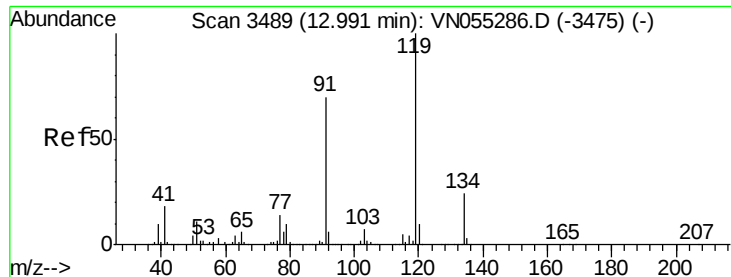
100000

50000

0

Time--> 12.35 12.40 12.45

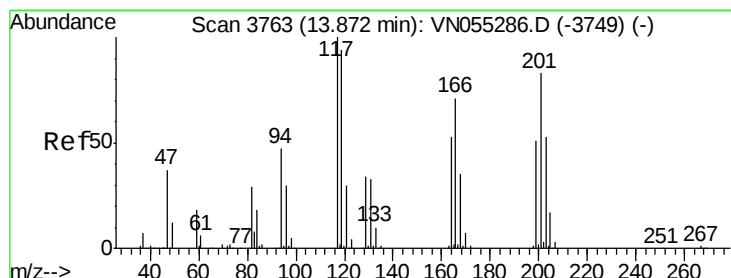
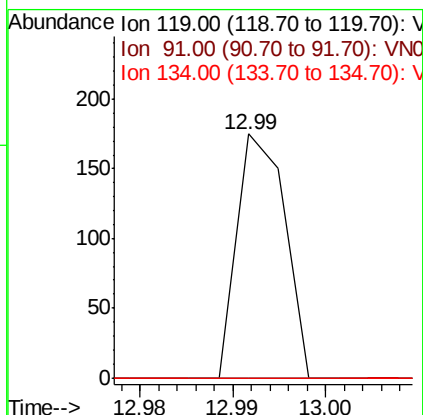
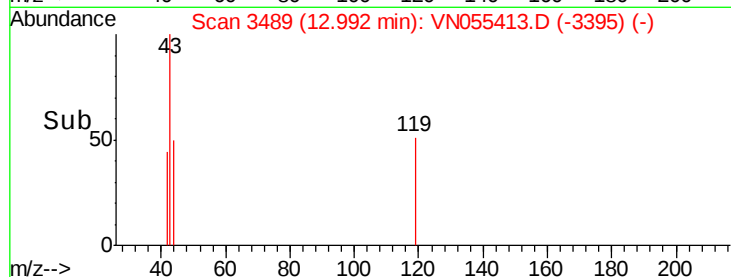
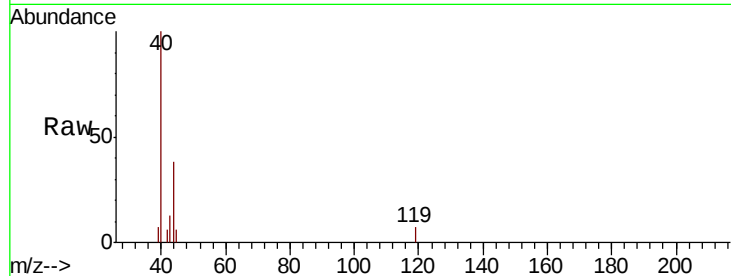




#83
tert-Butylbenzene
Concen: Below Cal
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN055413.D
Acq: 6 May 2019 12:49

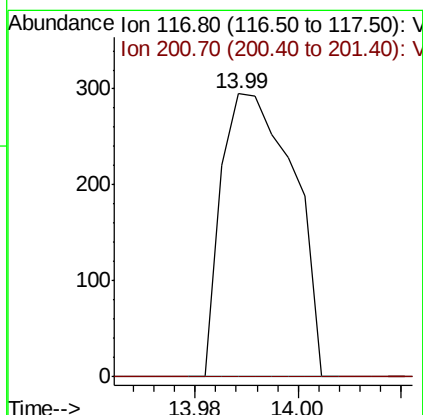
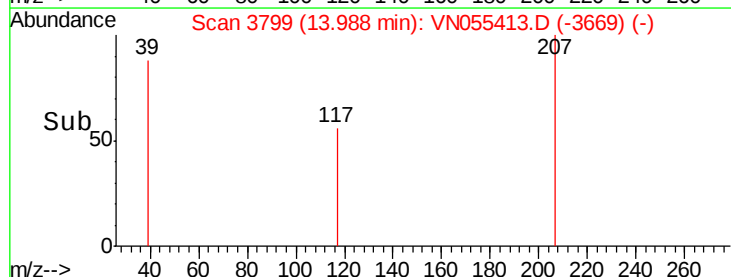
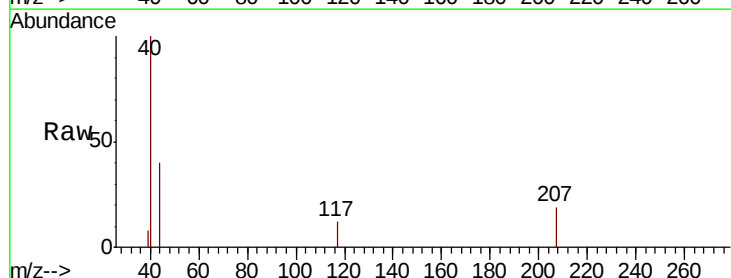
Instrument :
MSVOA_N
ClientSampleId :
WC-20190502

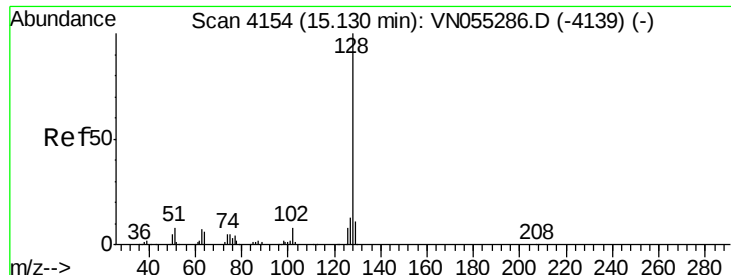
Tot Ion:119 Resp: 63
Ion Ratio Lower Upper
119 100
91 0.0 34.3 102.9#
134 0.0 13.1 39.3#



#90
Hexachloroethane
Concen: Below Cal
RT: 13.99 min Scan# 3799
Delta R.T. 0.12 min
Lab File: VN055413.D
Acq: 6 May 2019 12:49

Tgt Ion:117 Resp: 285
Ion Ratio Lower Upper
117 100
201 0.0 41.9 125.8#





#95

Naphthalene

Concen: 3.402 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN055413.D

Acq: 6 May 2019 12:49

Instrument :

MSVOA_N

ClientSampleId :

WC-20190502

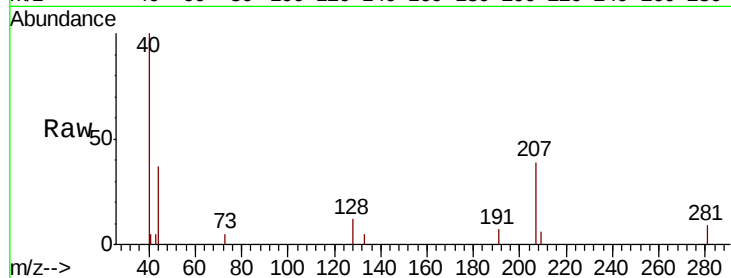
Tot Ion:128 Resp: 549

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

