

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060819\
 Data File : VN056115.D
 Acq On : 7 Jun 2019 22:15
 Operator : JC/SP
 Sample : K3203-09DL 100X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 08 05:14:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

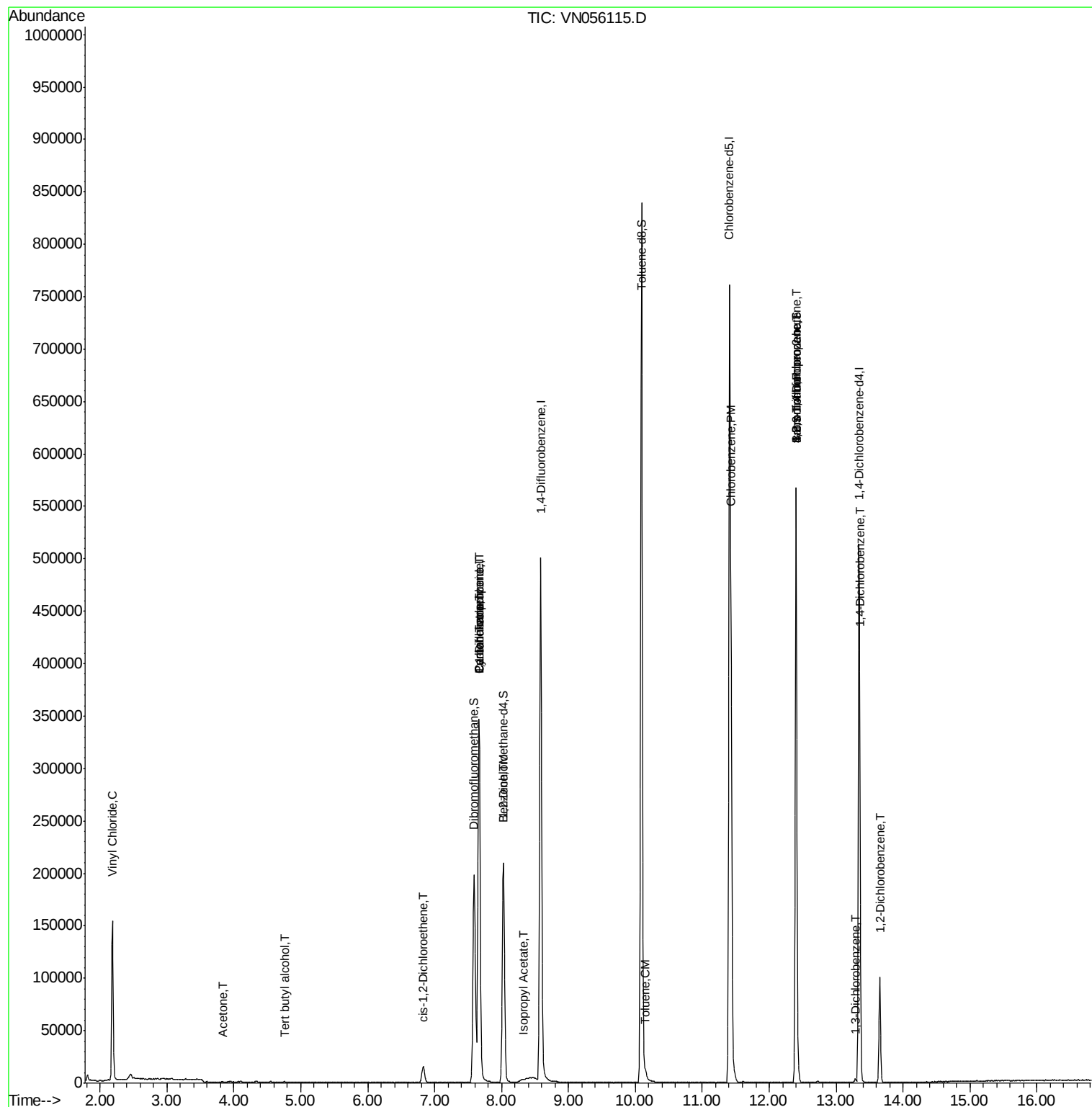
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	331549	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	498789	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	476058	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	155323	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	171608	52.13	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.26%	
35) Dibromofluoromethane	7.59	113	151505	49.51	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.02%	
50) Toluene-d8	10.09	98	629632	53.47	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.94%	
62) 4-Bromofluorobenzene	12.40	95	200162	49.98	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.96%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	2.18	62	143145	39.706	ug/l	100
11) Tert butyl alcohol	4.76	59	186	0.325	ug/l #	74
16) Acetone	3.82	43	1123	0.713	ug/l #	41
27) cis-1,2-Dichloroethene	6.83	96	11561	3.298	ug/l	75
31) Cyclohexane	7.66	56	4228	0.809	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	19720	4.598	ug/l #	47
38) Carbon Tetrachloride	7.66	117	26919	6.808	ug/l #	15
40) Benzene	8.04	78	11907	0.914	ug/l	93
43) Isopropyl Acetate	8.32	43	3771	0.610	ug/l #	53
52) Toluene	10.16	92	2504	0.309	ug/l	94
65) Chlorobenzene	11.43	112	195780	20.664	ug/l	100
71) Bromoform	12.40	173	1347	3.206	ug/l #	1
73) Isopropylbenzene	12.25	105	30	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	91953	32.174	ug/l #	100
79) 2-Chlorotoluene	12.40	91	499	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	91953	107.145	ug/l #	15
87) 1,3-Dichlorobenzene	13.28	146	2100	0.408	ug/l	97
88) 1,4-Dichlorobenzene	13.36	146	16523	3.337	ug/l	95
91) 1,2-Dichlorobenzene	13.65	146	48351	9.305	ug/l	99

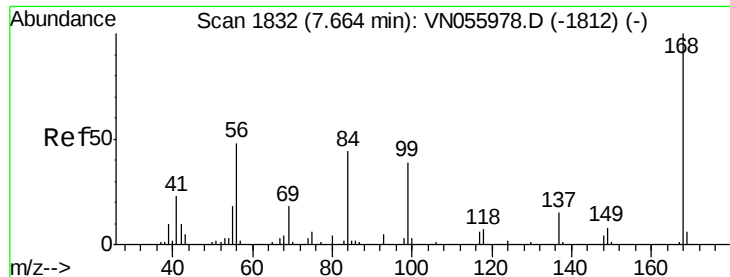
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jun 04 11:02:09 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056115.D

Acq: 7 Jun 2019 22:15

Instrument :

MSVOA_N

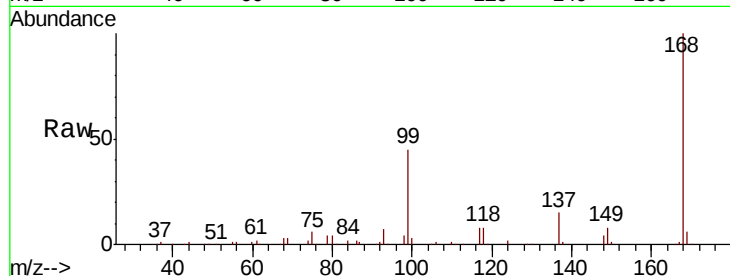
ClientSampleId :

Tot Ion:168 Resp: 331549

Ion Ratio Lower Upper

168 100

99 45.2 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

150000

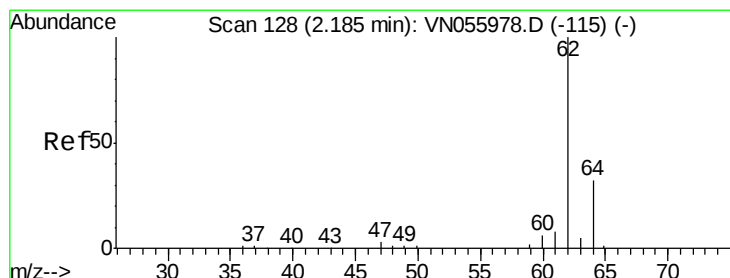
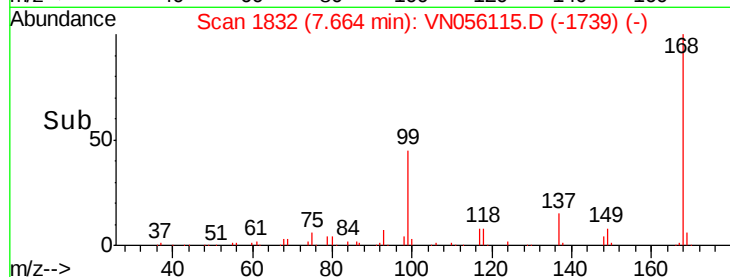
100000

50000

0

7.50 7.60 7.70 7.80

Time-->



#4

Vinyl Chloride

Concen: 39.706 ug/l

RT: 2.18 min Scan# 128

Delta R.T. -0.00 min

Lab File: VN056115.D

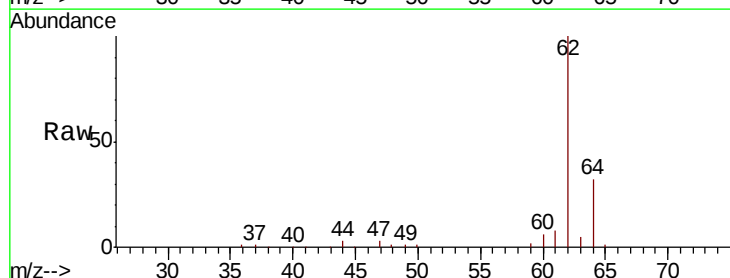
Acq: 7 Jun 2019 22:15

Tgt Ion: 62 Resp: 143145

Ion Ratio Lower Upper

62 100

64 32.0 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO

2.18

100000

80000

60000

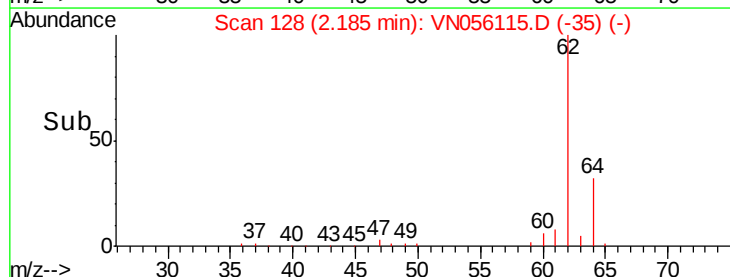
40000

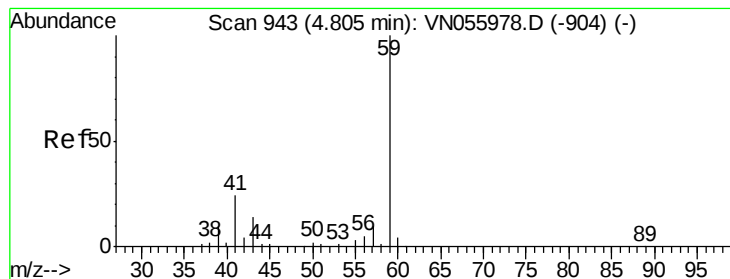
20000

0

2.10 2.15 2.20 2.25 2.30

Time-->



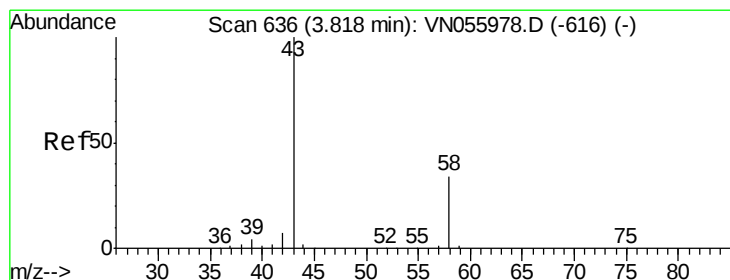
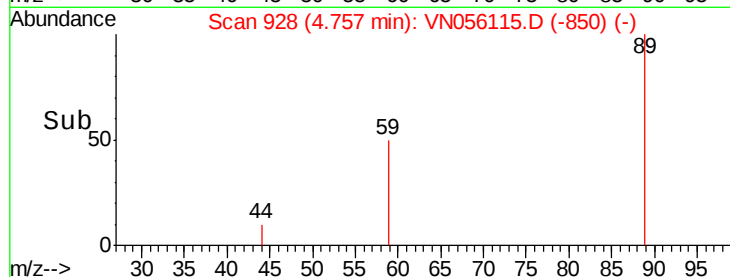
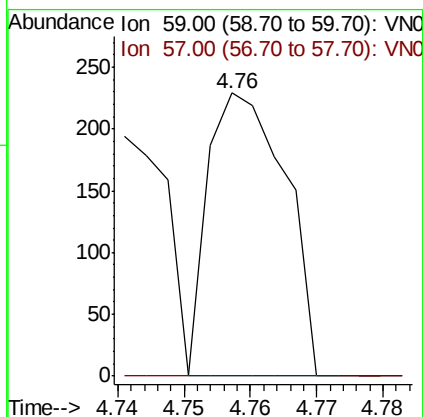
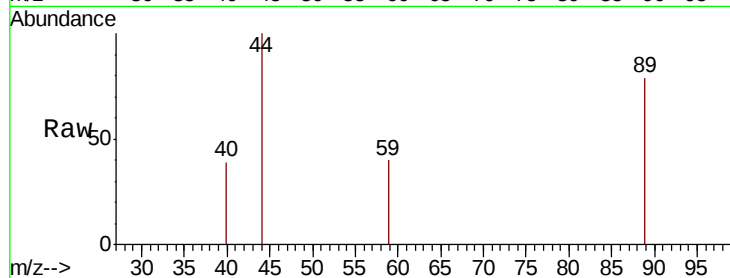


#11

Tert butyl alcohol
 Concen: 0.325 ug/l
 RT: 4.76 min Scan# 928
 Delta R.T. -0.05 min
 Lab File: VN056115.D
 Acq: 7 Jun 2019 22:15

Instrument :
 MSVOA_N
 ClientSampled :

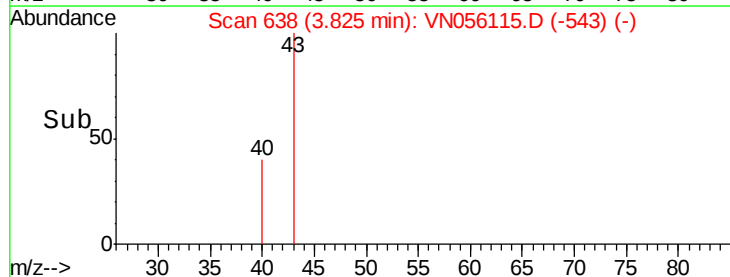
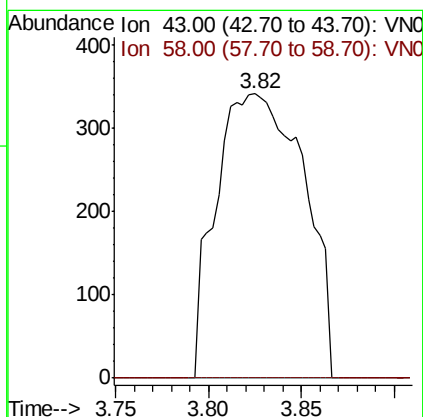
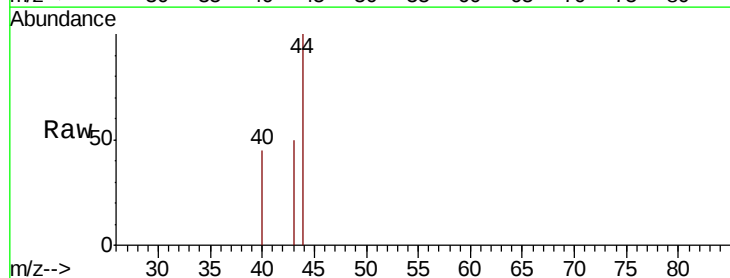
Tot Ion: 59 Resp: 186
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.6#

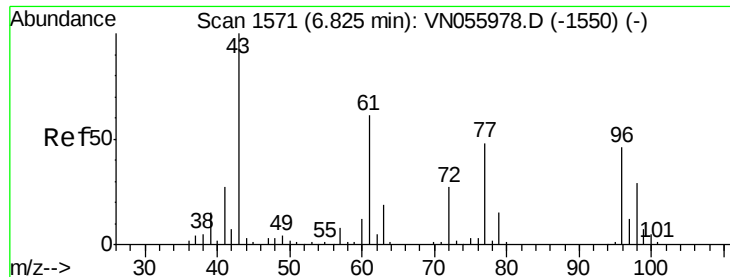


#16

Acetone
 Concen: 0.713 ug/l
 RT: 3.82 min Scan# 638
 Delta R.T. 0.01 min
 Lab File: VN056115.D
 Acq: 7 Jun 2019 22:15

Tgt Ion: 43 Resp: 1123
 Ion Ratio Lower Upper
 43 100
 58 0.0 26.6 39.8#





#27

cis-1,2-Dichloroethene

Concen: 3.298 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN056115.D

Acq: 7 Jun 2019 22:15

Instrument :

MSVOA_N

ClientSampleId :

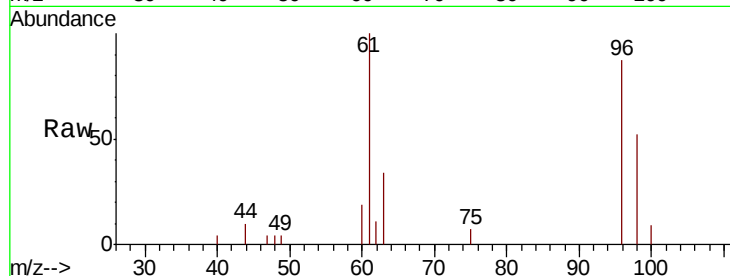
Tot Ion: 96 Resp: 11561

Ion Ratio Lower Upper

96 100

61 115.1 0.0 275.8

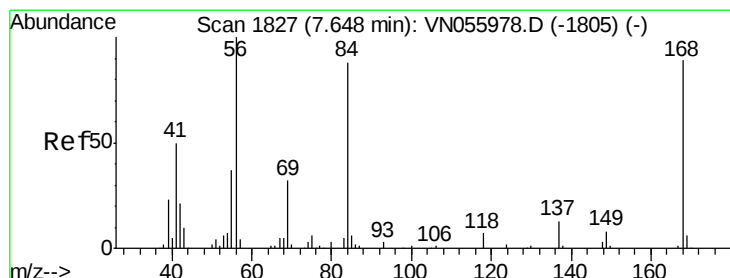
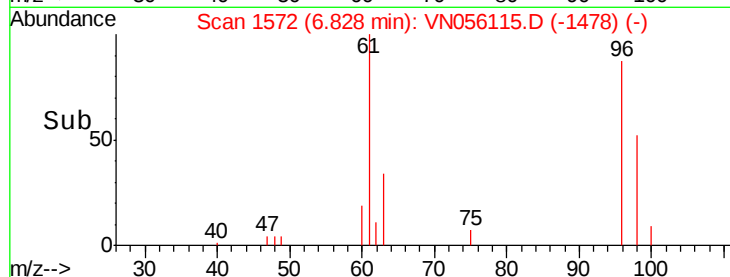
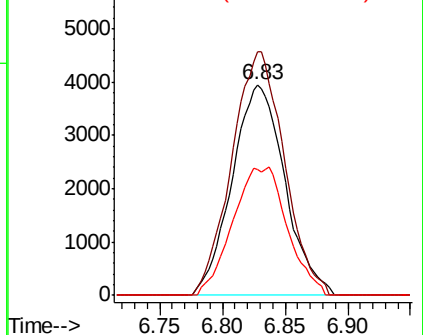
98 34.4 0.0 128.4



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#31

Cyclohexane

Concen: 0.809 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN056115.D

Acq: 7 Jun 2019 22:15

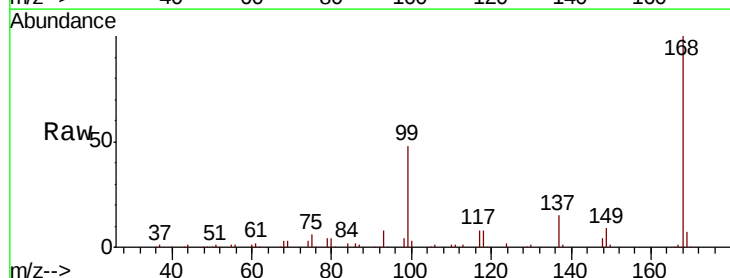
Tgt Ion: 56 Resp: 4228

Ion Ratio Lower Upper

56 100

69 214.0 25.6 38.4#

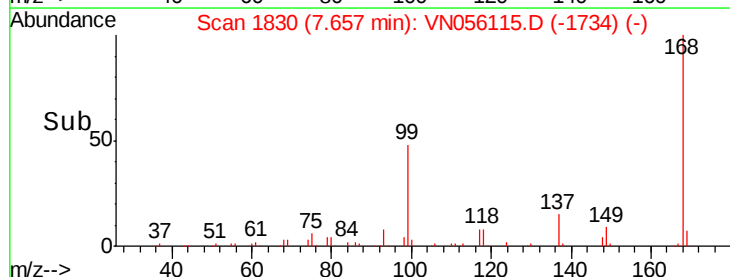
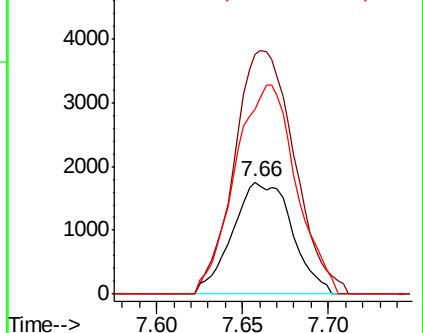
84 164.7 67.4 101.0#

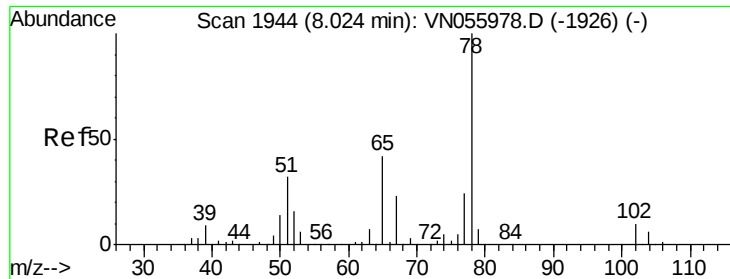


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

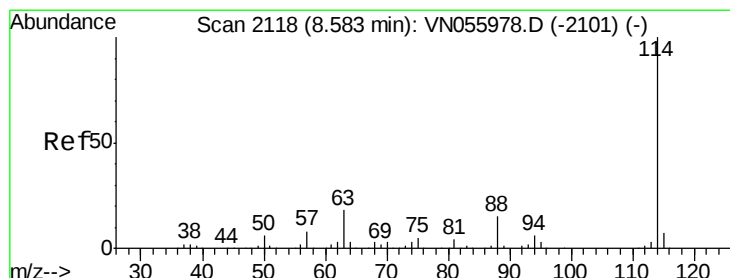
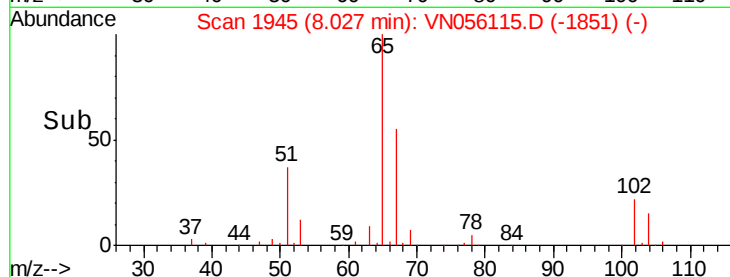
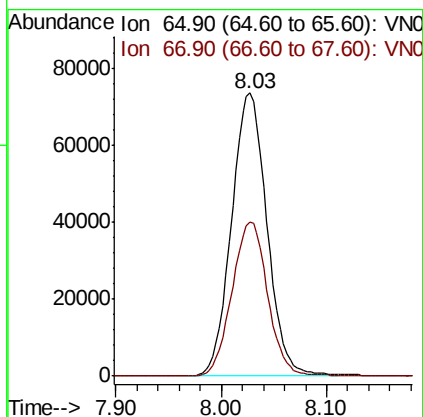
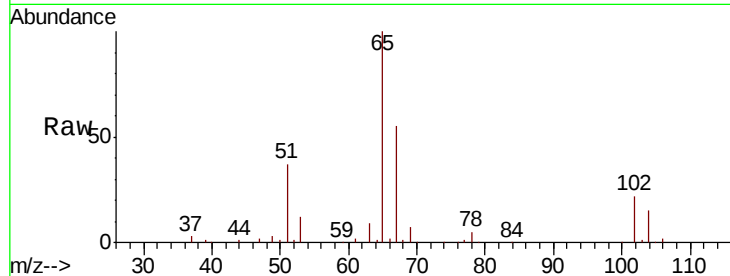




#33
 1,2-Dichloroethane-d4
 Concen: 52.129 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056115.D
 Acq: 7 Jun 2019 22:15

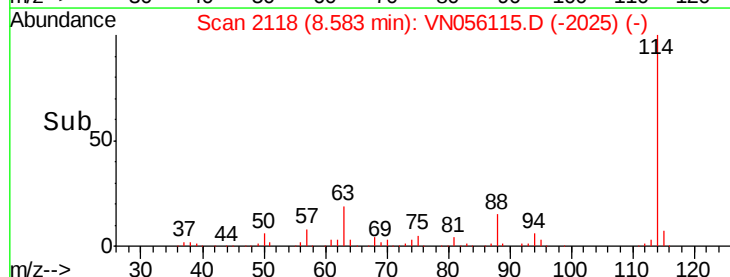
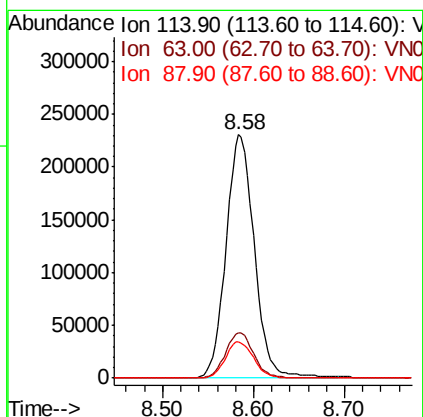
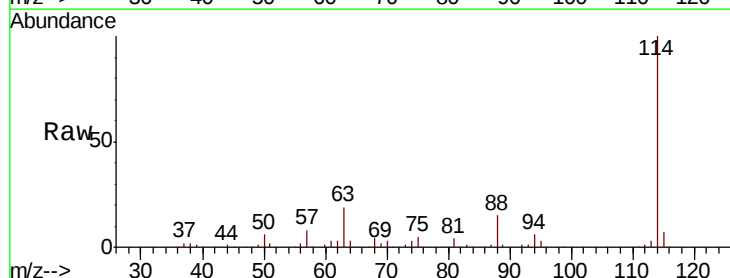
Instrument :
 MSVOA_N
 ClientSampled :

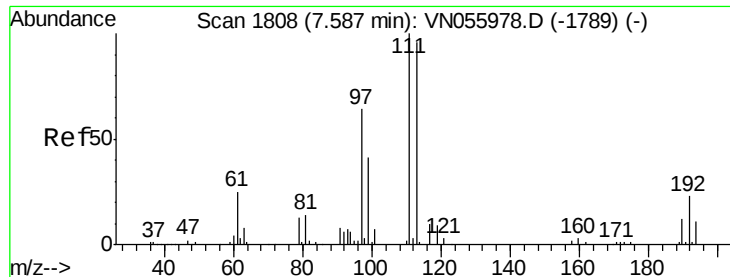
Tot Ion: 65 Resp: 171608
 Ion Ratio Lower Upper
 65 100
 67 55.0 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN056115.D
 Acq: 7 Jun 2019 22:15

Tgt Ion: 114 Resp: 498789
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 39.2
 88 15.0 0.0 31.0

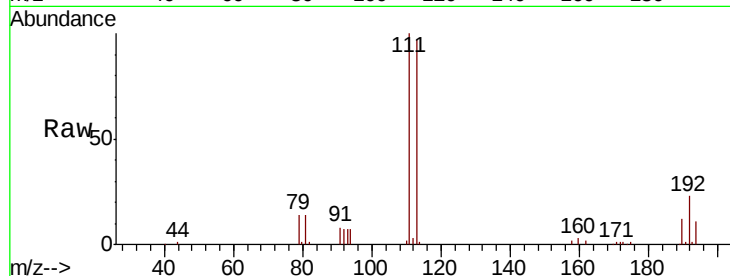




#35
 Dibromofluoromethane
 Concen: 49.508 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056115.D
 Acq: 7 Jun 2019 22:15

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.9	81.9	122.9
192	23.7	19.5	29.3

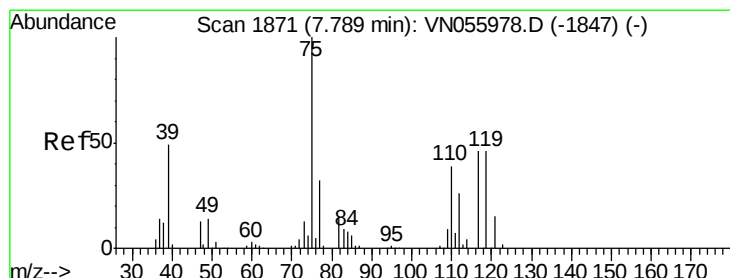
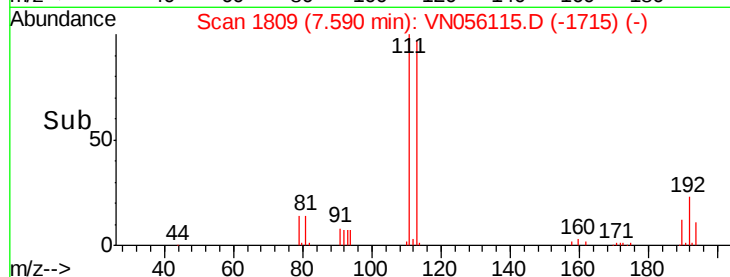
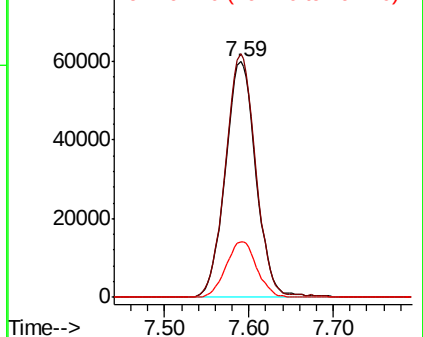


Abundance

Ion 112.80 (112.50 to 113.50): V

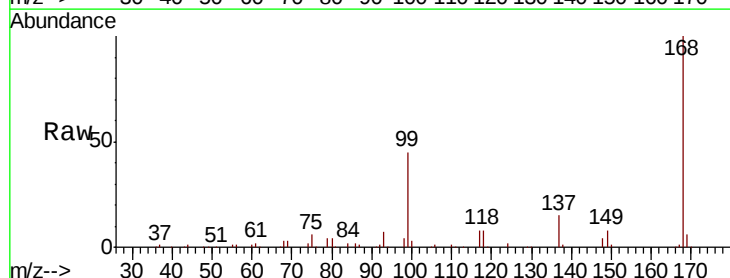
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 4.598 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056115.D
 Acq: 7 Jun 2019 22:15

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.5	19.0	57.0#
77	0.0	25.1	37.7#

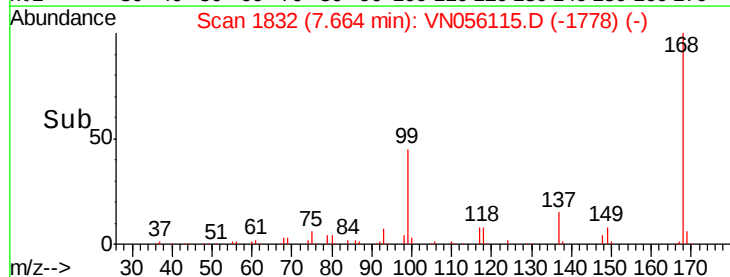
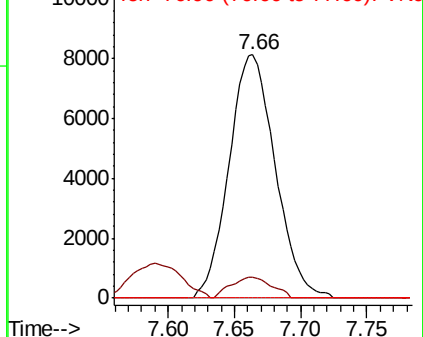


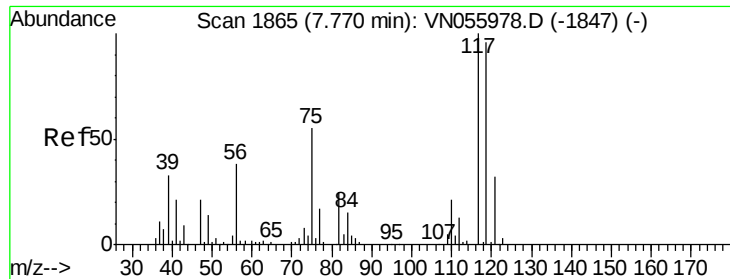
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

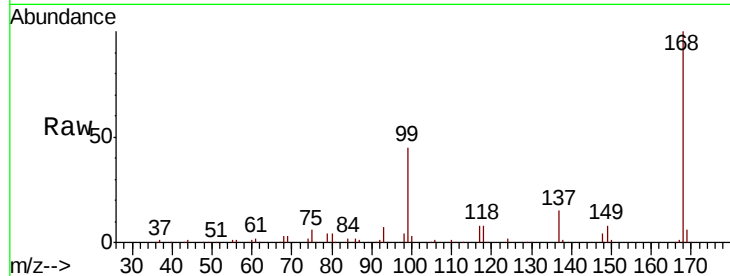




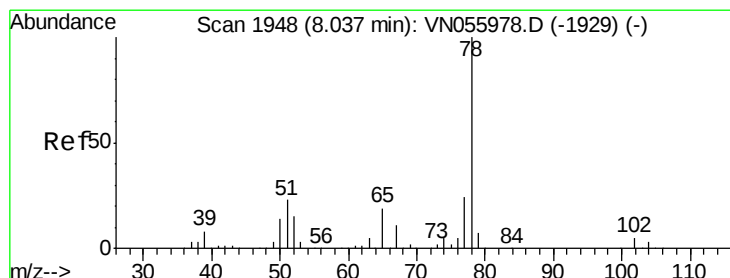
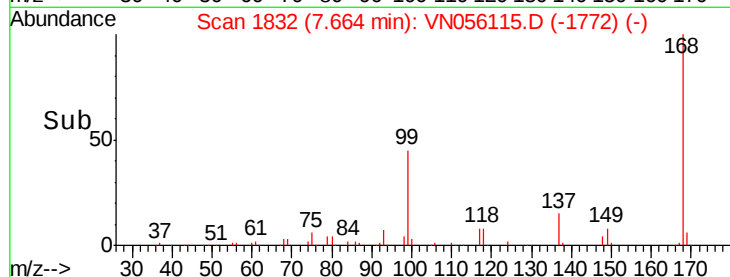
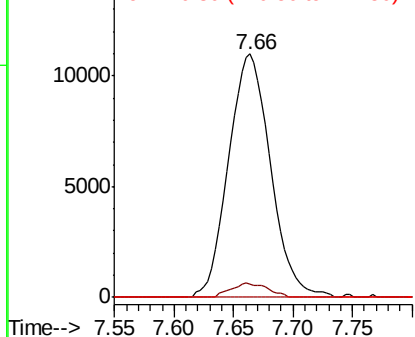
#38
Carbon Tetrachloride
Concen: 6.808 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN056115.D
Acq: 7 Jun 2019 22:15

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 26919
Ion Ratio Lower Upper
117 100
119 5.5 79.0 118.6#
121 0.0 24.7 37.1#

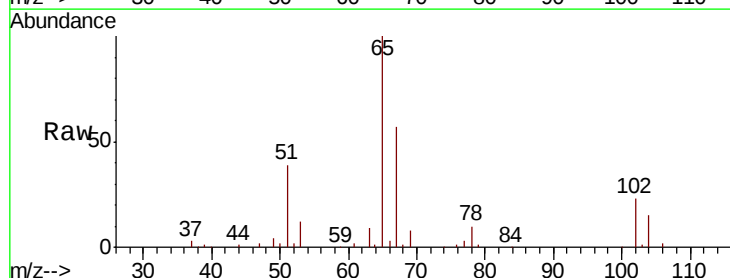


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

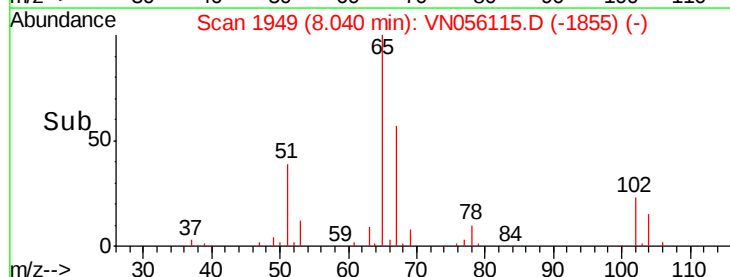
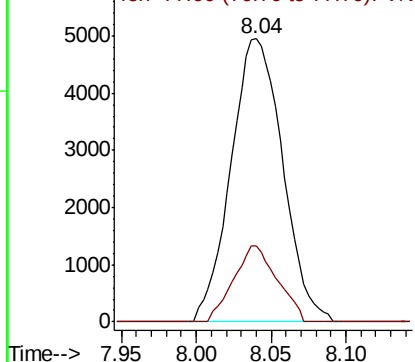


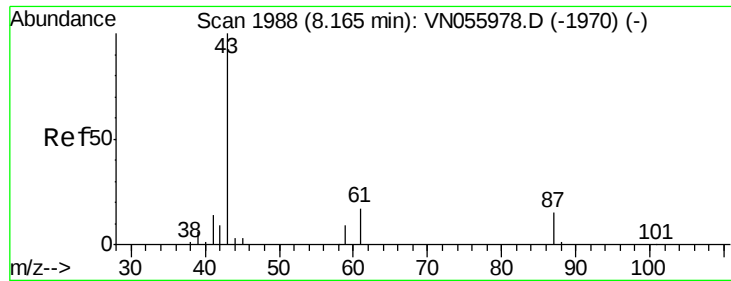
#40
Benzene
Concen: 0.914 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN056115.D
Acq: 7 Jun 2019 22:15

Tgt Ion: 78 Resp: 11907
Ion Ratio Lower Upper
78 100
77 27.1 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): V
Ion 77.00 (76.70 to 77.70): V





#43

Isopropyl Acetate

Concen: 0.610 ug/l

RT: 8.32 min Scan# 2035

Delta R.T. 0.15 min

Lab File: VN056115.D

Acq: 7 Jun 2019 22:15

Instrument :

MSVOA_N

ClientSampleId :

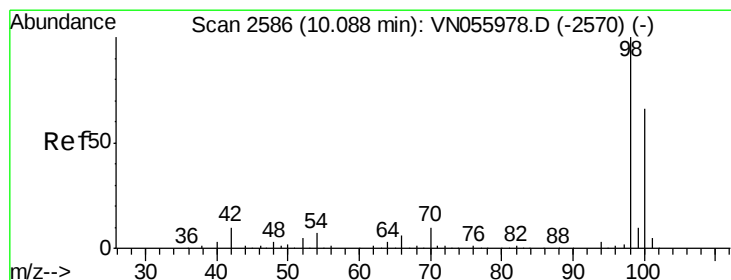
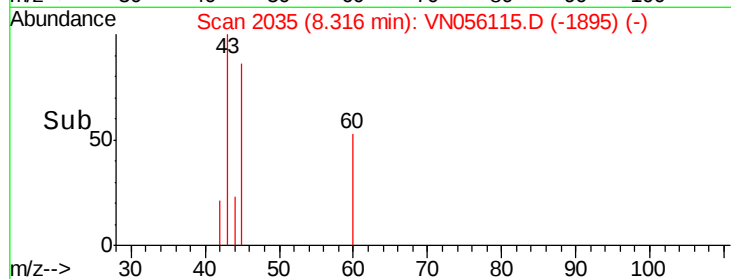
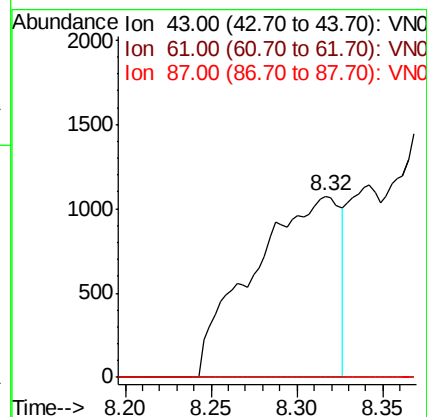
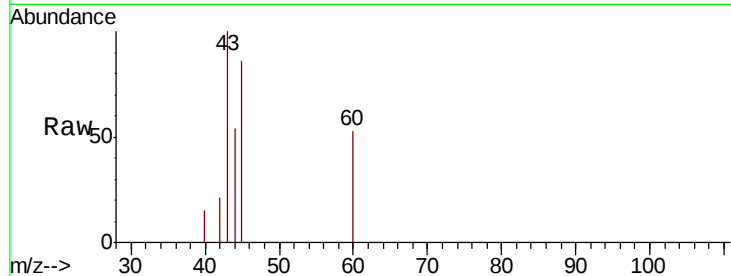
Tot Ion: 43 Resp: 3771

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

87 0.0 11.4 17.2#



#50

Toluene-d8

Concen: 53.468 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056115.D

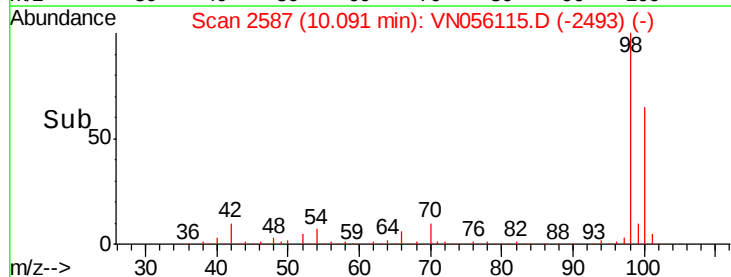
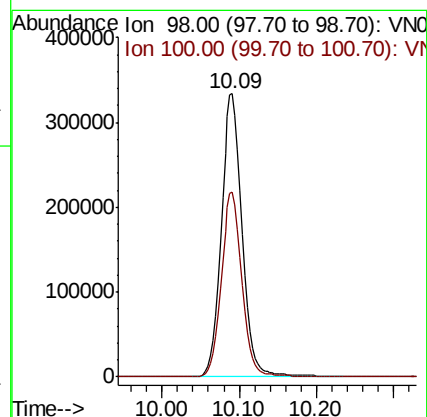
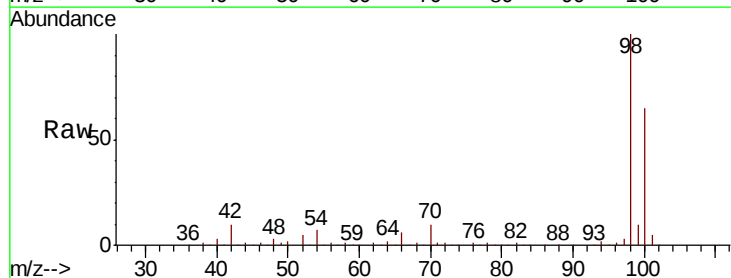
Acq: 7 Jun 2019 22:15

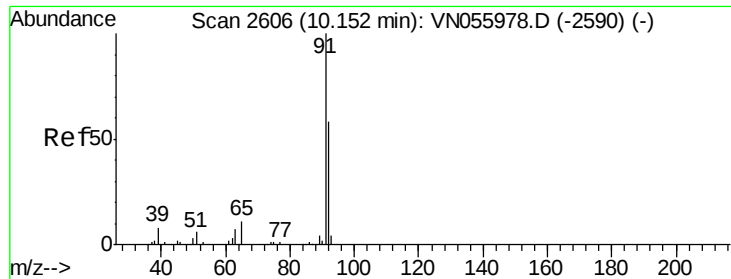
Tgt Ion: 98 Resp: 629632

Ion Ratio Lower Upper

98 100

100 65.0 51.9 77.9





#52

Toluene

Concen: 0.309 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN056115.D

Acq: 7 Jun 2019 22:15

Instrument :

MSVOA_N

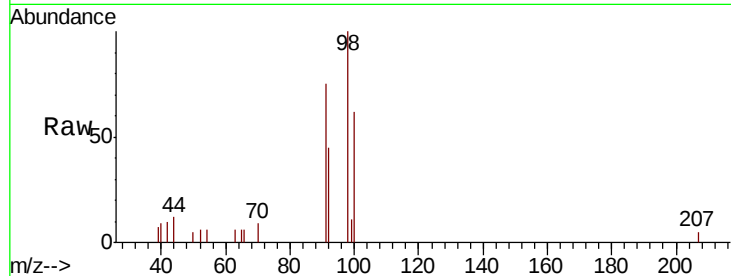
ClientSampleId :

Tot Ion: 92 Resp: 2504

Ion Ratio Lower Upper

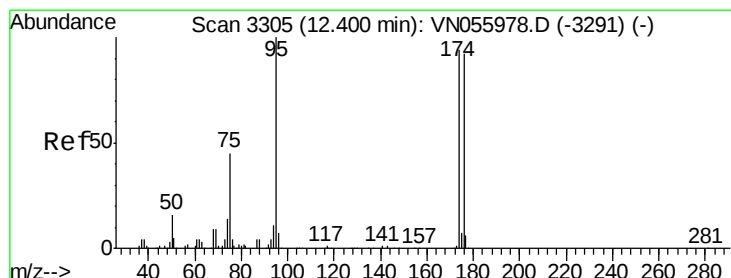
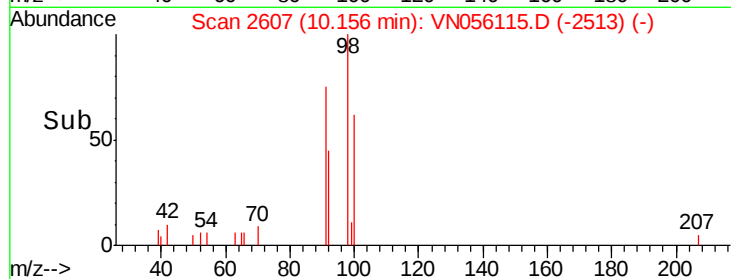
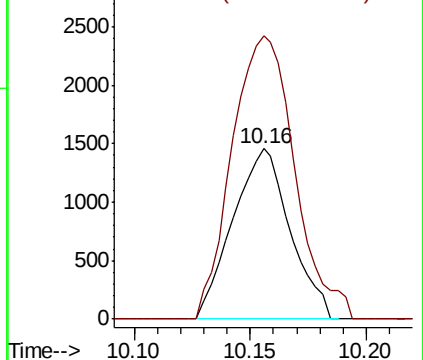
92 100

91 182.1 139.4 209.2



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



#62

4-Bromofluorobenzene

Concen: 49.982 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056115.D

Acq: 7 Jun 2019 22:15

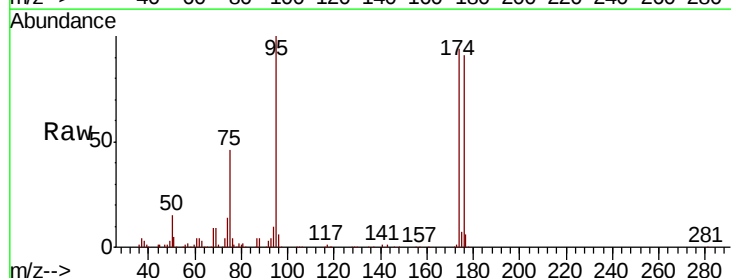
Tgt Ion: 95 Resp: 200162

Ion Ratio Lower Upper

95 100

174 96.3 0.0 191.0

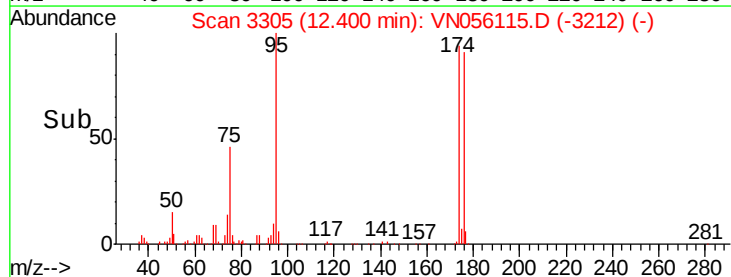
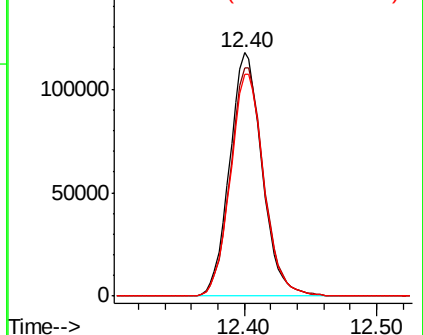
176 93.8 0.0 185.2

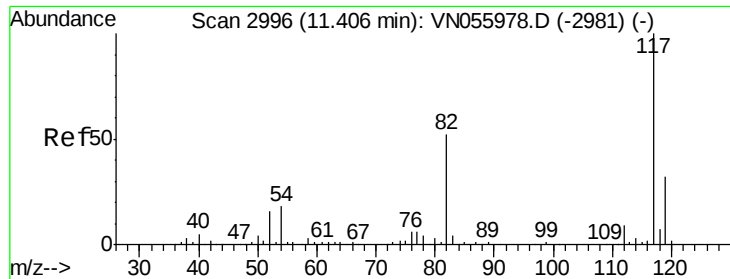


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

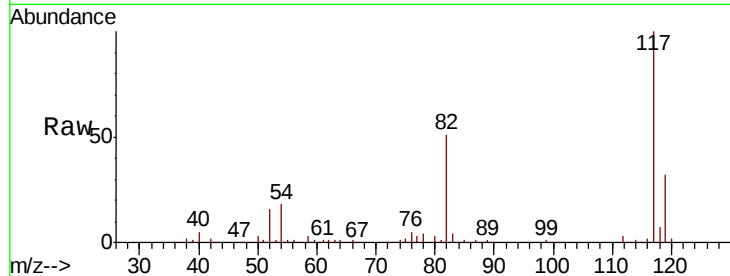




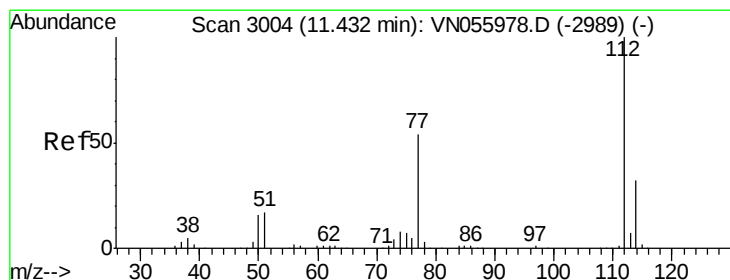
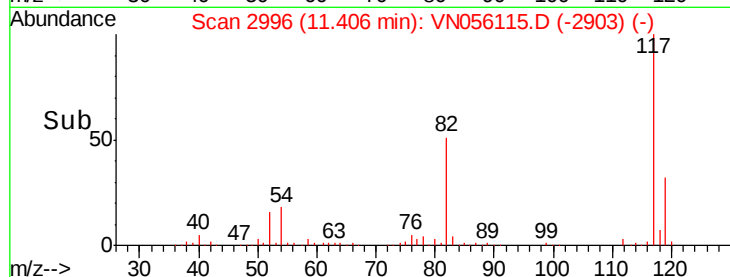
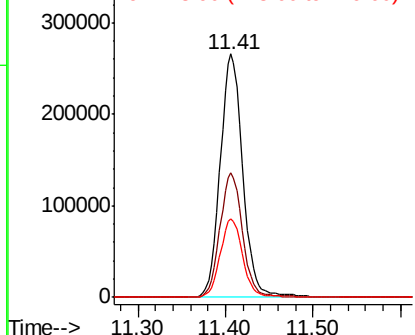
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056115.D
Acq: 7 Jun 2019 22:15

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 476058
Ion Ratio Lower Upper
117 100
82 51.0 41.8 62.8
119 32.4 25.4 38.0

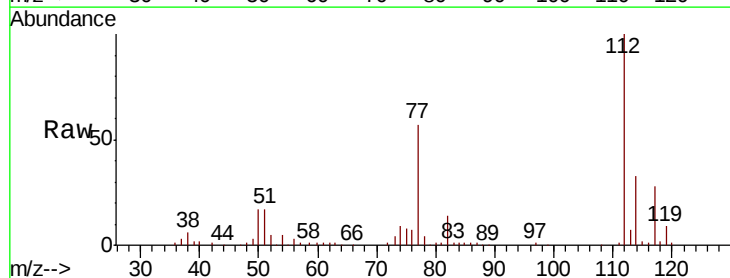


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

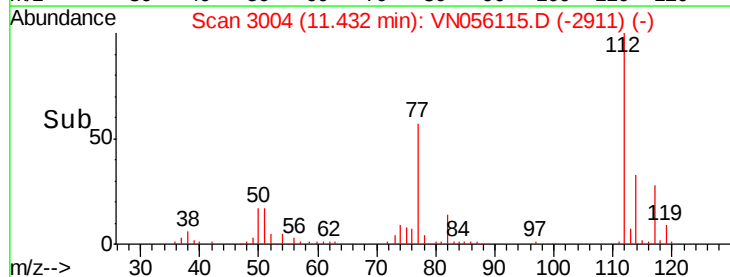
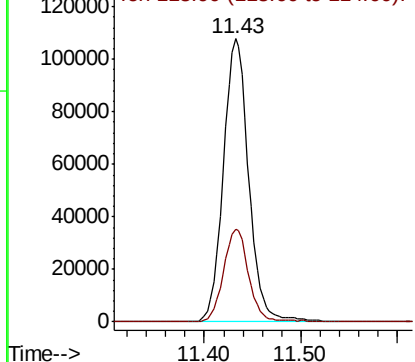


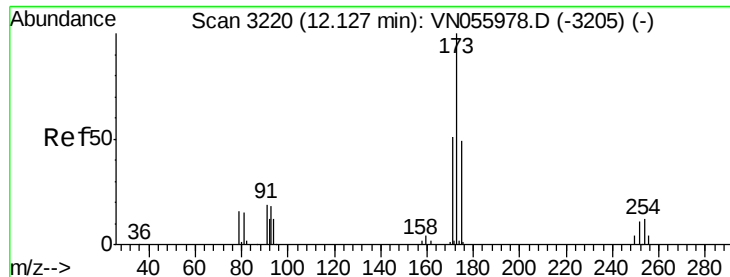
#65
Chlorobenzene
Concen: 20.664 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN056115.D
Acq: 7 Jun 2019 22:15

Tgt Ion:112 Resp: 195780
Ion Ratio Lower Upper
112 100
114 32.8 26.2 39.4



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V

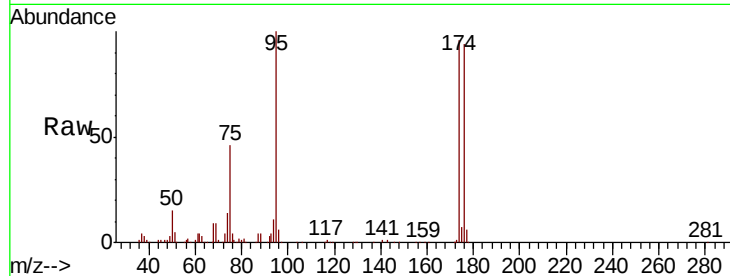




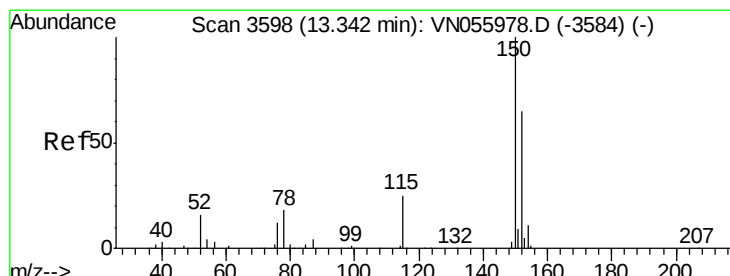
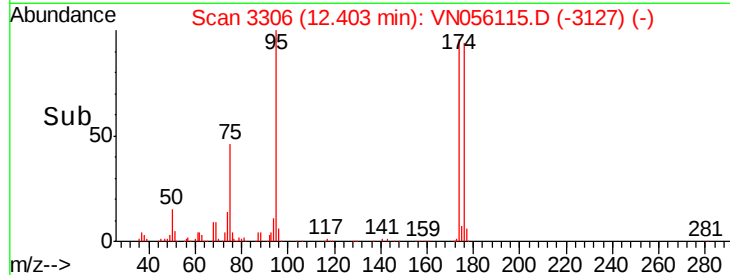
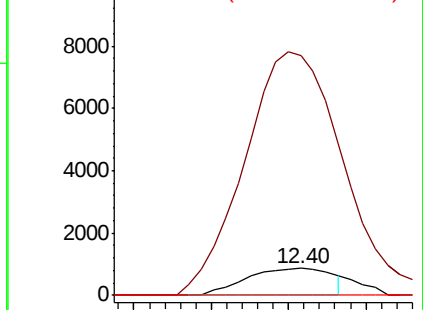
#71
Bromoform
Concen: 3.206 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN056115.D
Acq: 7 Jun 2019 22:15

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:173 Resp: 1347
Ion Ratio Lower Upper
173 100
175 884.6 24.3 72.8#
254 0.0 0.0 0.0

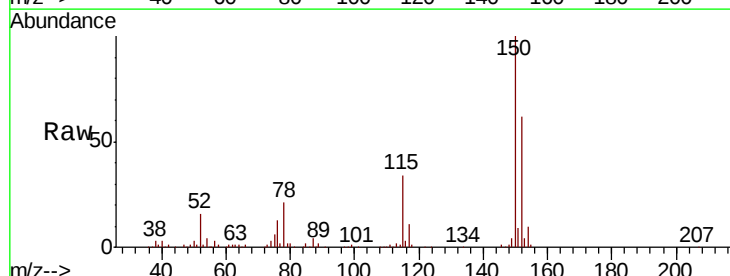


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

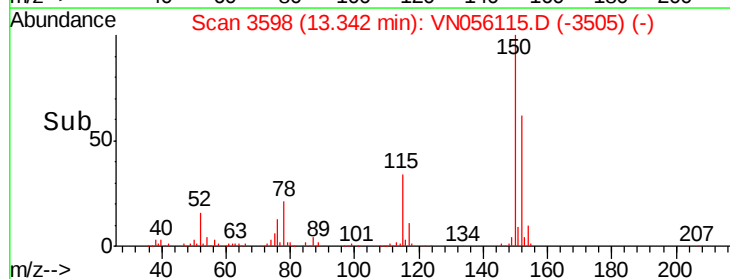
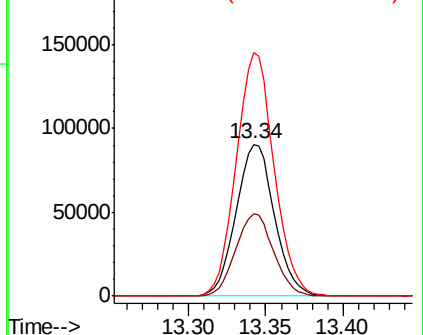


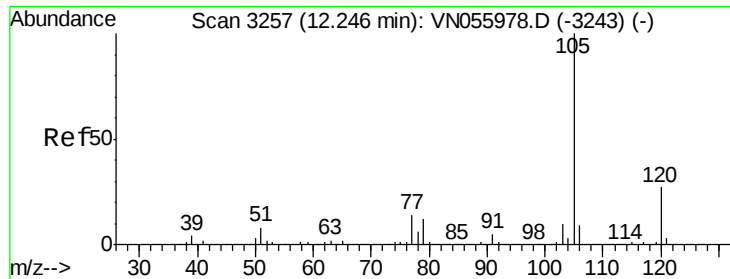
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN056115.D
Acq: 7 Jun 2019 22:15

Tgt Ion:152 Resp: 155323
Ion Ratio Lower Upper
152 100
115 53.8 27.0 81.0
150 158.6 0.0 343.2



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





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3259

Delta R.T. 0.01 min

Lab File: VN056115.D

Acq: 7 Jun 2019 22:15

Instrument :

MSVOA_N

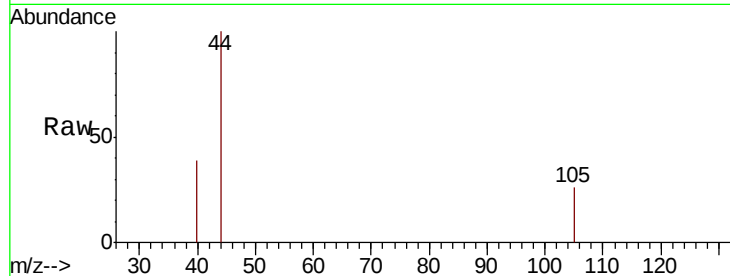
ClientSampleId :

Tot Ion:105 Resp: 30

Ion Ratio Lower Upper

105 100

120 0.0 13.6 40.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

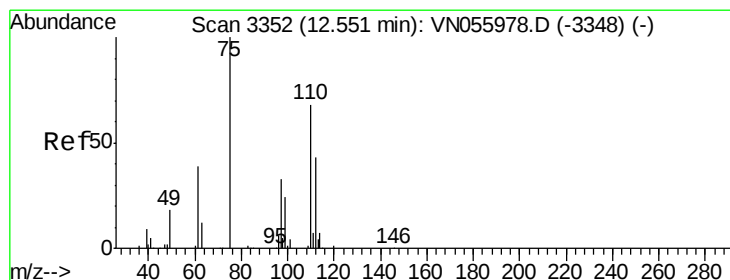
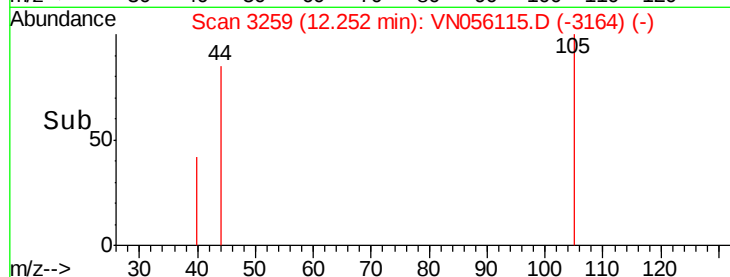
150

100

50

0

Time--> 12.24 12.25 12.26



#76

1,2,3-Trichloropropane

Concen: 32.174 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056115.D

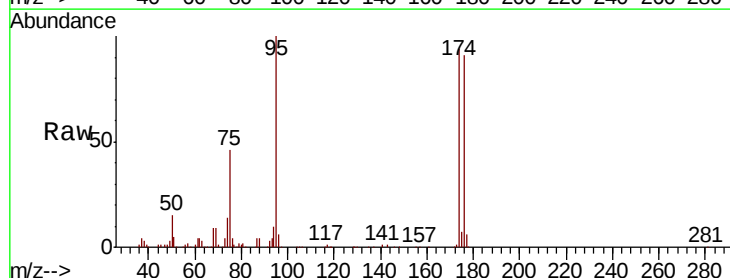
Acq: 7 Jun 2019 22:15

Tgt Ion: 75 Resp: 91953

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

60000

50000

40000

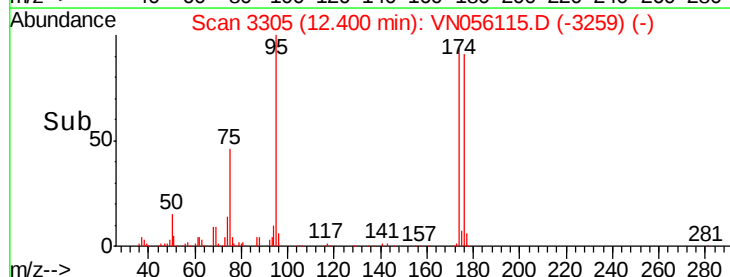
30000

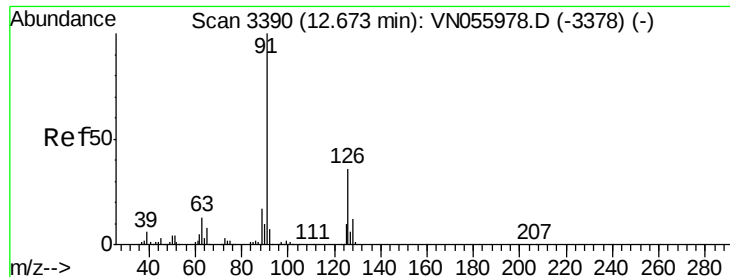
20000

10000

0

Time--> 12.35 12.40 12.45 12.50





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.40 min Scan# 3305

Delta R.T. -0.27 min

Lab File: VN056115.D

Acq: 7 Jun 2019 22:15

Instrument :

MSVOA_N

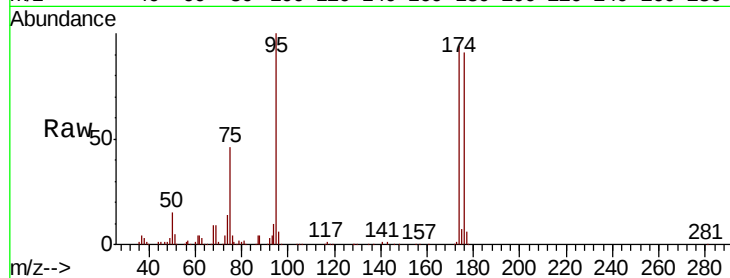
ClientSampleId :

Tot Ion: 91 Resp: 499

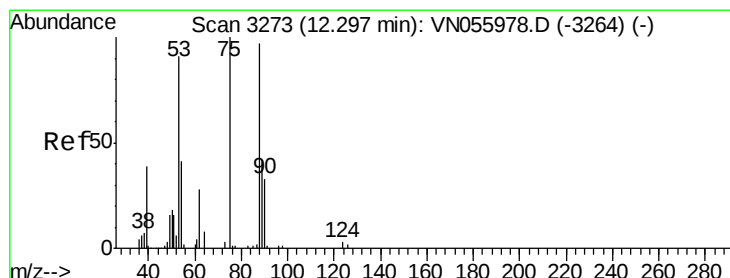
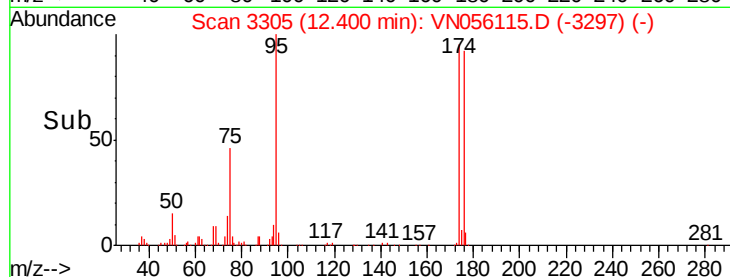
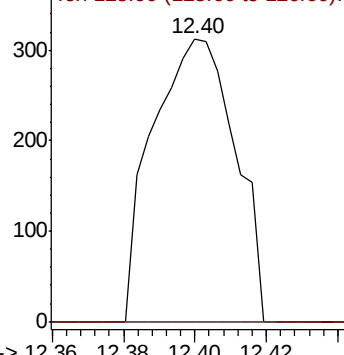
Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN055978.D (-3378) (-)



#81

trans-1,4-Dichloro-2-butene

Concen: 107.145 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056115.D

Acq: 7 Jun 2019 22:15

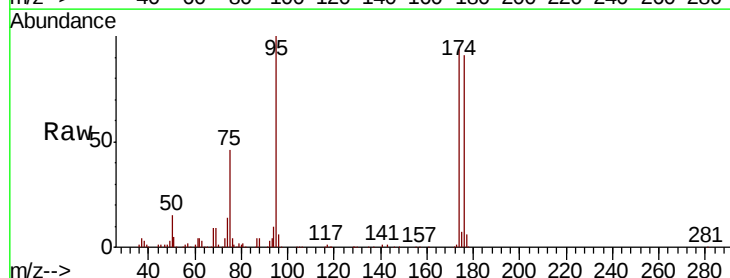
Tgt Ion: 75 Resp: 91953

Ion Ratio Lower Upper

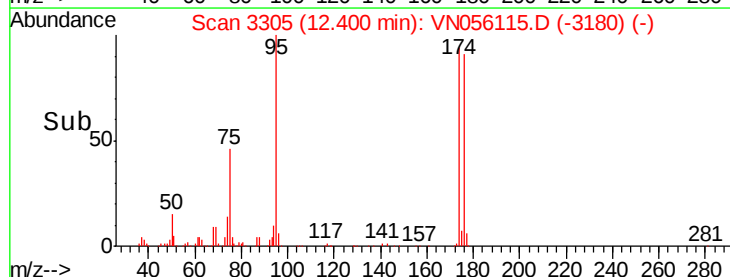
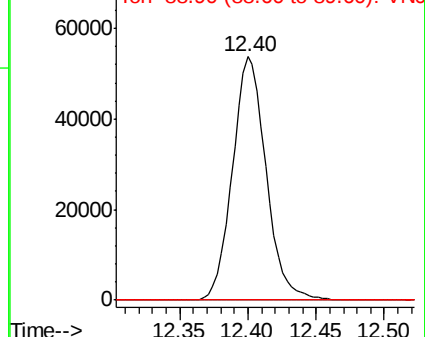
75 100

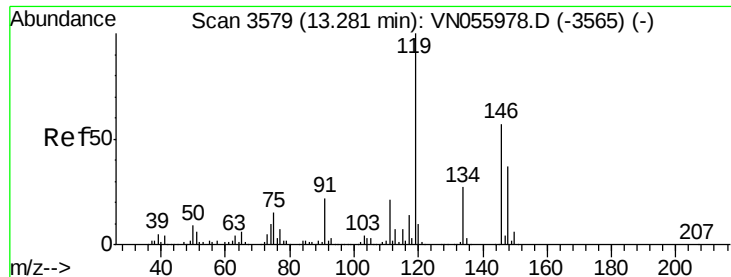
53 0.0 68.1 102.1#

89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN055978.D (-3264) (-)

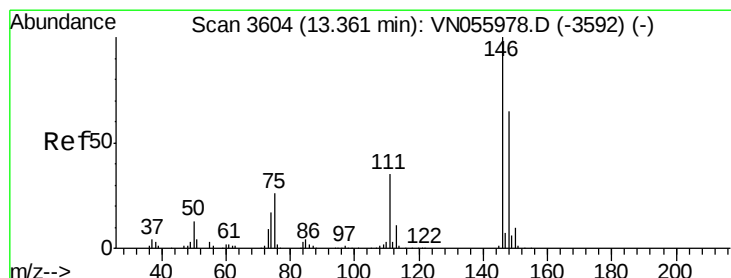
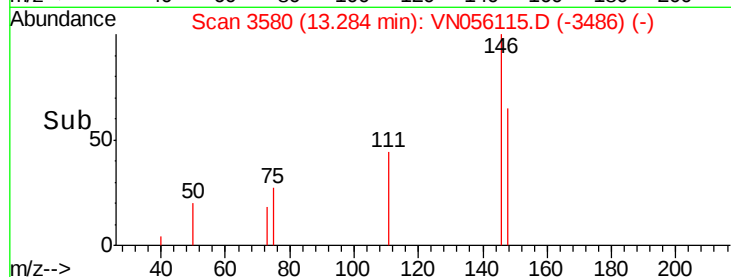
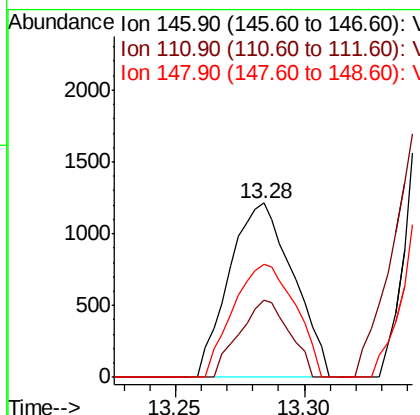
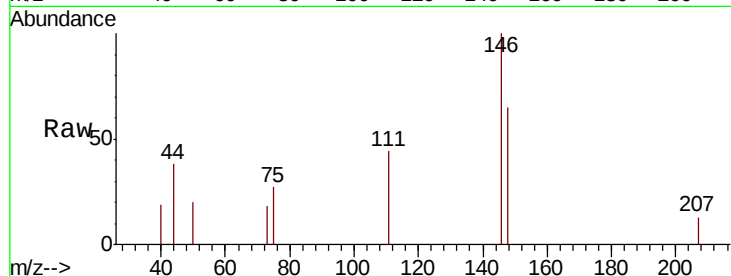




#87
 1,3-Dichlorobenzene
 Concen: 0.408 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN056115.D
 Acq: 7 Jun 2019 22:15

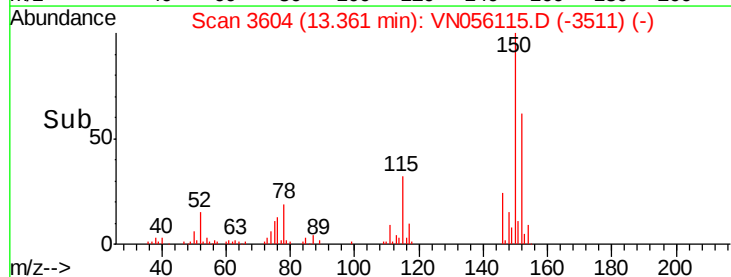
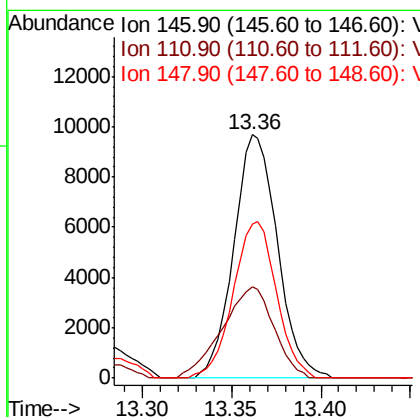
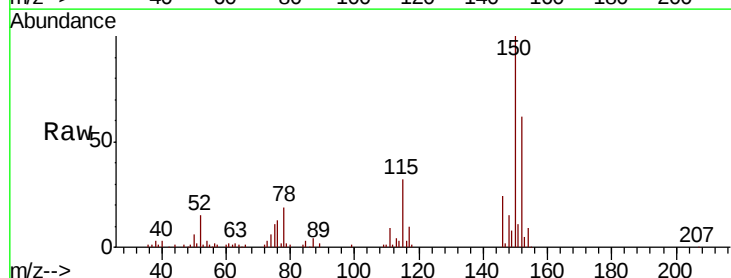
Instrument :
 MSVOA_N
 ClientSampled :

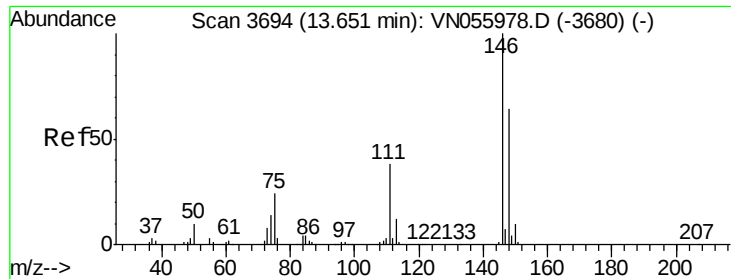
Tot Ion:146 Resp: 2100
 Ion Ratio Lower Upper
 146 100
 111 34.6 18.5 55.5
 148 62.8 32.0 96.2



#88
 1,4-Dichlorobenzene
 Concen: 3.337 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN056115.D
 Acq: 7 Jun 2019 22:15

Tgt Ion:146 Resp: 16523
 Ion Ratio Lower Upper
 146 100
 111 44.0 18.1 54.4
 148 63.6 32.1 96.5

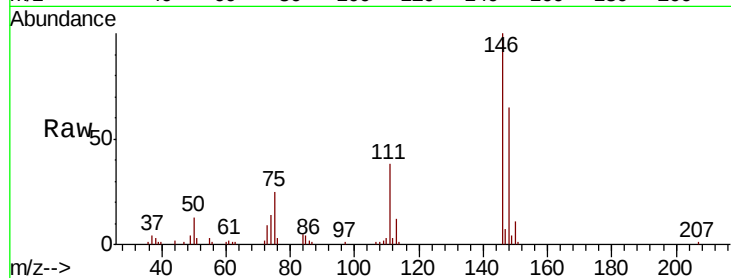




#91
 1,2-Dichlorobenzene
 Concen: 9.305 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN056115.D
 Acq: 7 Jun 2019 22:15

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.1	19.1	57.5
148	64.0	31.9	95.9



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

