

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060719\
 Data File : VN056044.D
 Acq On : 6 Jun 2019 14:30
 Operator : JC/SP
 Sample : K3195-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LF014MW080-190603

Quant Time: Jun 06 17:54:47 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	335102	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	504056	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	466550	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	147817	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	177290	53.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.56%	
35) Dibromofluoromethane	7.59	113	155529	50.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.58%	
50) Toluene-d8	10.09	98	641656	53.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.84%	
62) 4-Bromofluorobenzene	12.40	95	195171	48.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.46%	

Target Compounds

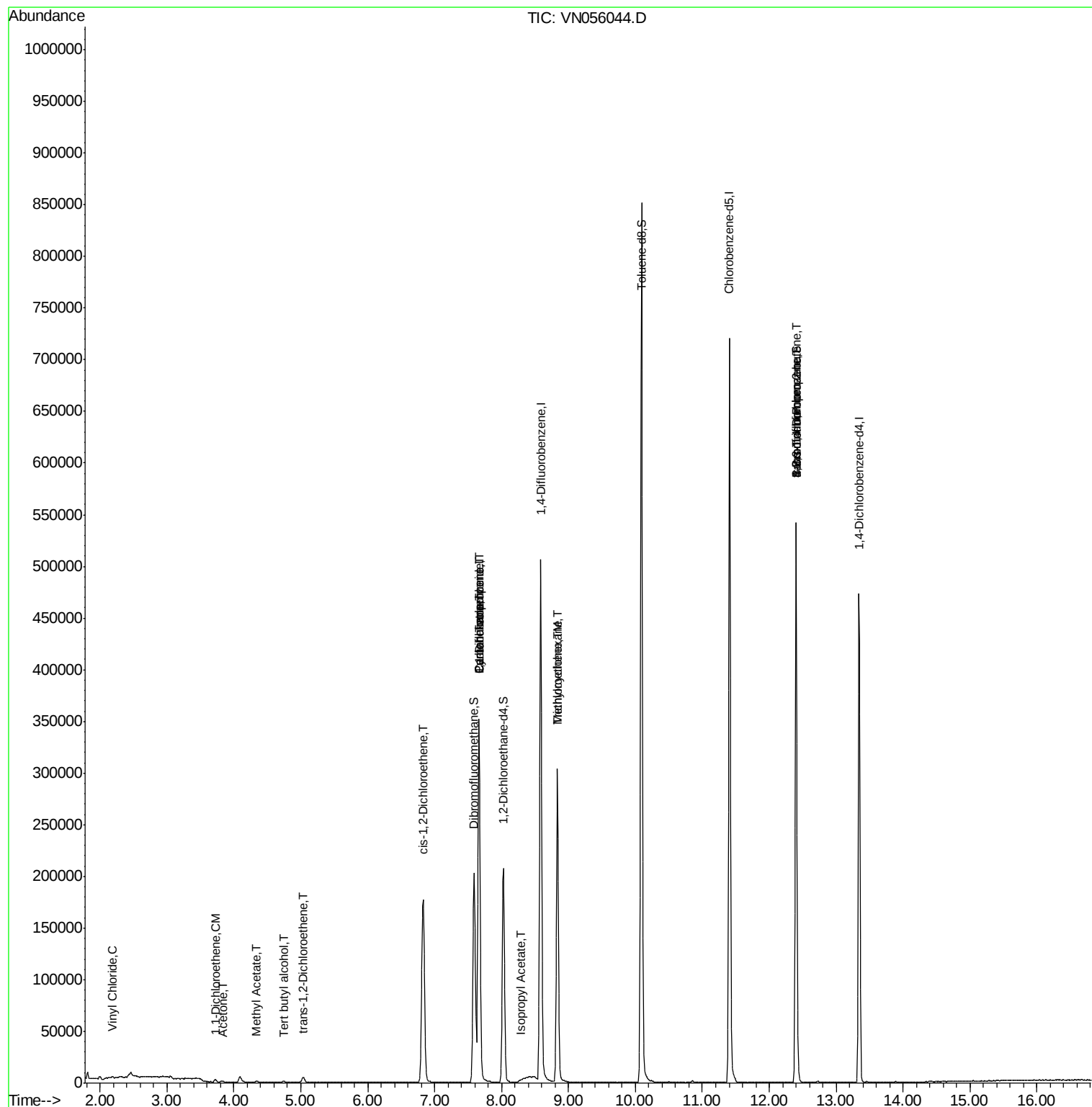
						Qvalue
4) Vinyl Chloride	2.18	62	1696	0.465	ug/l	92
11) Tert butyl alcohol	4.74	59	640	1.105	ug/l #	74
12) 1,1-Dichloroethene	3.72	96	1484	0.528	ug/l	92
16) Acetone	3.82	43	1749	1.099	ug/l	94
18) Methyl Acetate	4.34	43	2887	0.350	ug/l #	70
21) trans-1,2-Dichloroethene	5.04	96	3640	1.208	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	130637	36.871	ug/l	88
31) Cyclohexane	7.66	56	4711	0.892	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	19792	4.566	ug/l #	47
38) Carbon Tetrachloride	7.67	117	28191	7.055	ug/l #	15
39) Methylcyclohexane	8.83	83	1168	0.216	ug/l #	1
43) Isopropyl Acetate	8.27	43	1650	0.264	ug/l #	53
44) Trichloroethene	8.83	130	122648	32.424	ug/l	100
71) Bromoform	12.40	173	1251	3.181	ug/l #	1
73) Isopropylbenzene	12.40	105	30	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	90653	33.330	ug/l #	100
79) 2-Chlorotoluene	12.59	91	61	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	90653	110.994	ug/l #	15

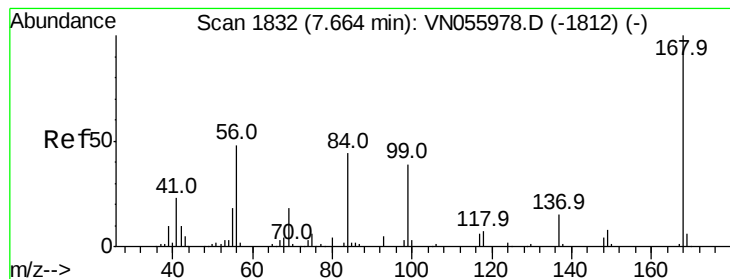
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN056044.D

Acq: 6 Jun 2019 14:30

Instrument :

MSVOA_N

ClientSampleId :

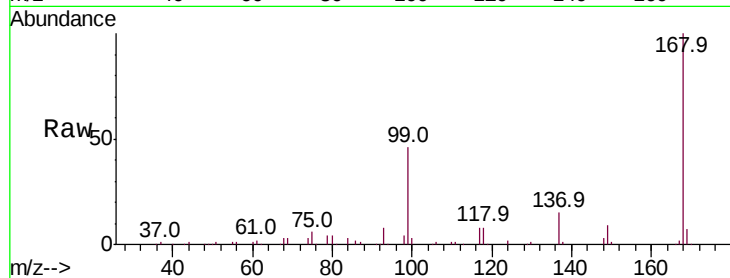
LF014MW080-190603

Tot Ion:168 Resp: 335102

Ion Ratio Lower Upper

168 100

99 46.2 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

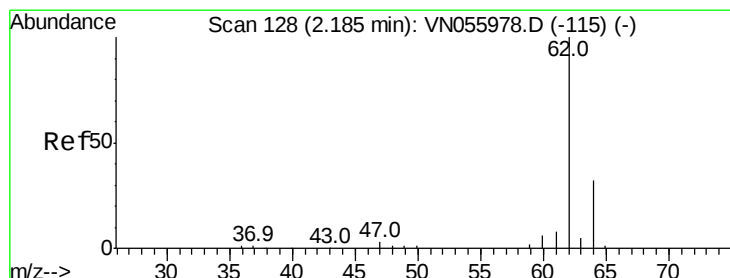
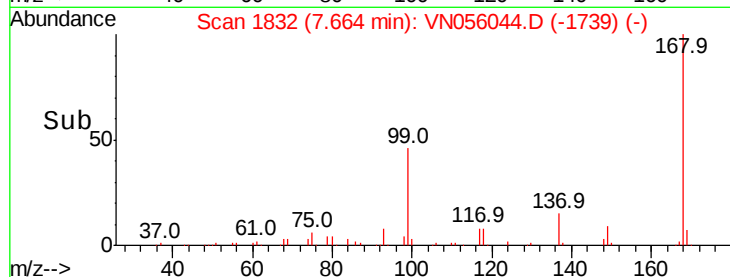
100000

50000

0

Time-->

7.60 7.70 7.80



#4

Vinyl Chloride

Concen: 0.465 ug/l

RT: 2.18 min Scan# 127

Delta R.T. -0.00 min

Lab File: VN056044.D

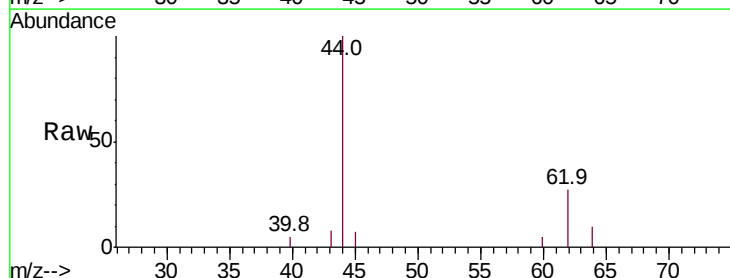
Acq: 6 Jun 2019 14:30

Tgt Ion: 62 Resp: 1696

Ion Ratio Lower Upper

62 100

64 36.7 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VN

Ion 63.90 (63.60 to 64.60): VN

2.18

1200

1000

800

600

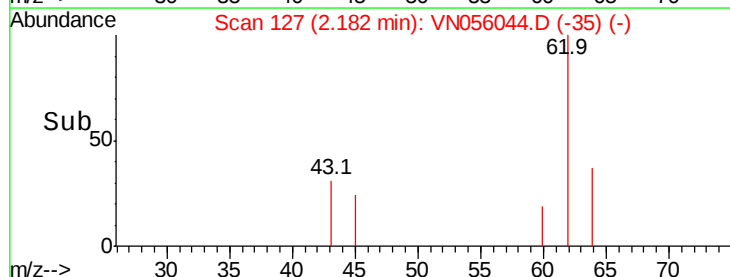
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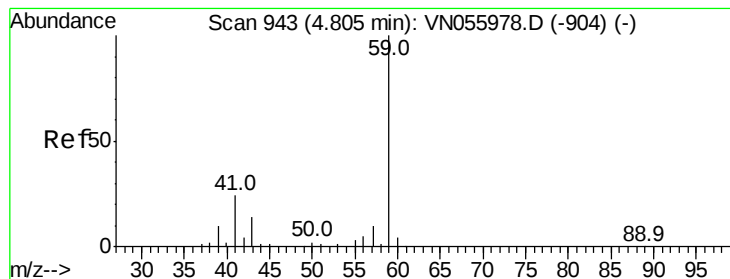
200

0

Time-->

2.15 2.20



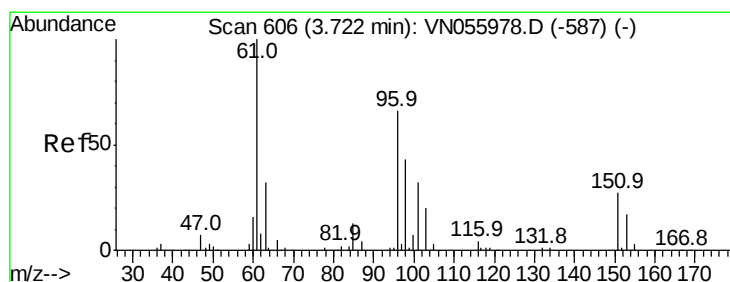
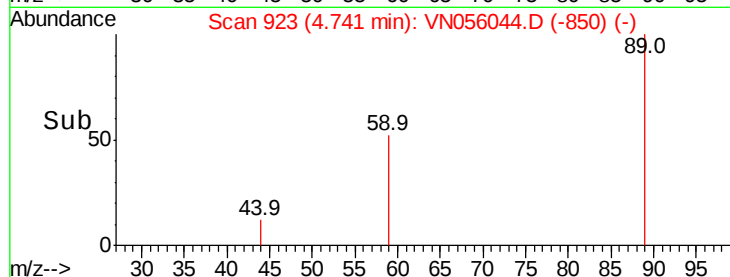
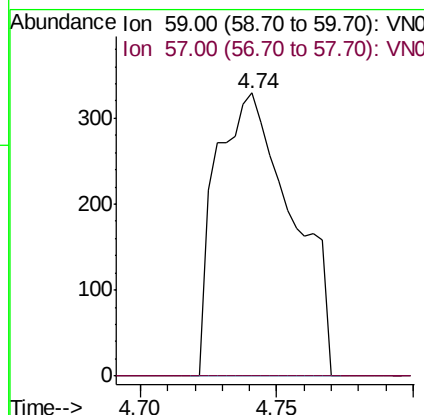
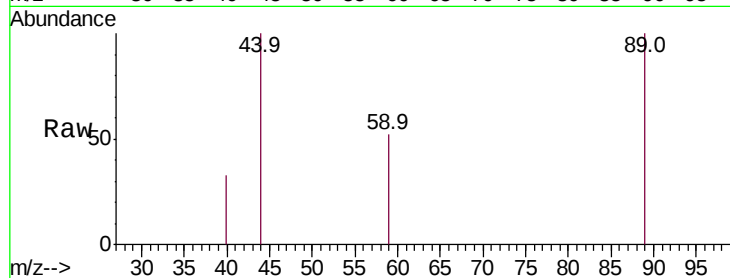


#11

Tert butyl alcohol
 Concen: 1.105 ug/l
 RT: 4.74 min Scan# 923
 Delta R.T. -0.06 min
 Lab File: VN056044.D
 Acq: 6 Jun 2019 14:30

Instrument :
 MSVOA_N
 ClientSampleId :
 LF014MW080-190603

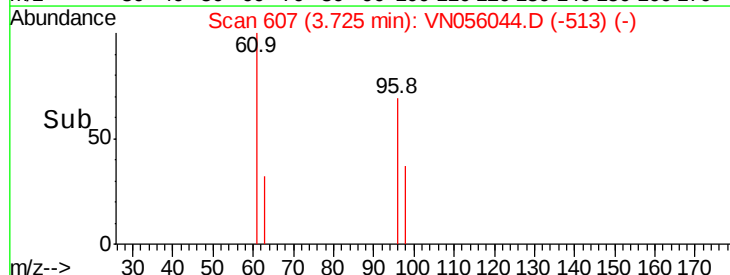
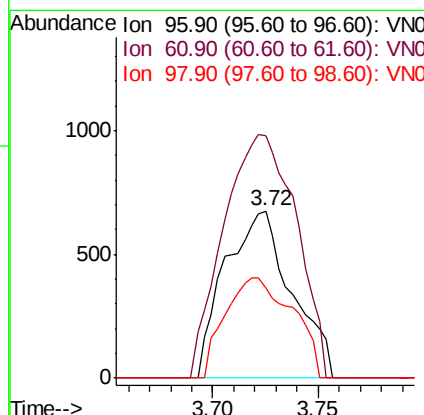
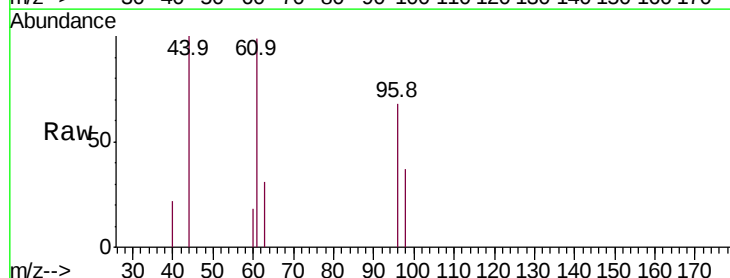
Tot Ion: 59 Resp: 640
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.6#

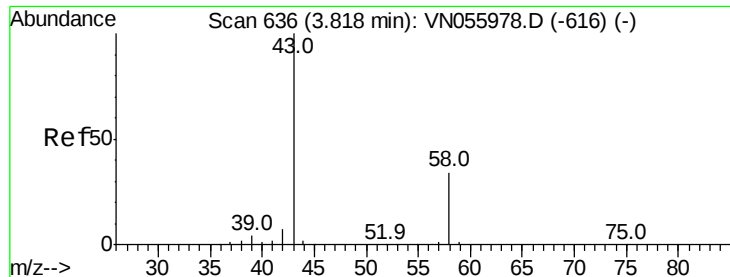


#12

1,1-Dichloroethene
 Concen: 0.528 ug/l
 RT: 3.72 min Scan# 607
 Delta R.T. 0.00 min
 Lab File: VN056044.D
 Acq: 6 Jun 2019 14:30

Tgt Ion: 96 Resp: 1484
 Ion Ratio Lower Upper
 96 100
 61 145.1 123.2 184.8
 98 53.6 50.4 75.6





#16

Acetone

Concen: 1.099 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN056044.D

Acq: 6 Jun 2019 14:30

Instrument :

MSVOA_N

ClientSampleId :

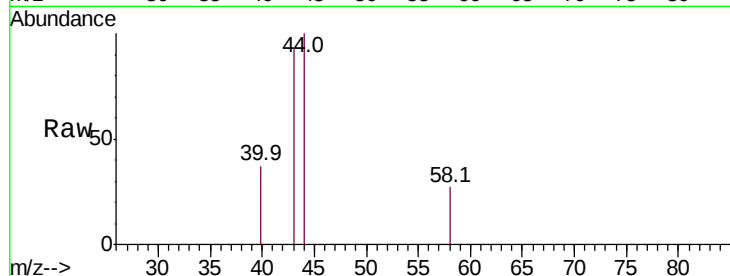
LF014MW080-190603

Tot Ion: 43 Resp: 1749

Ion Ratio Lower Upper

43 100

58 29.5 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

800

600

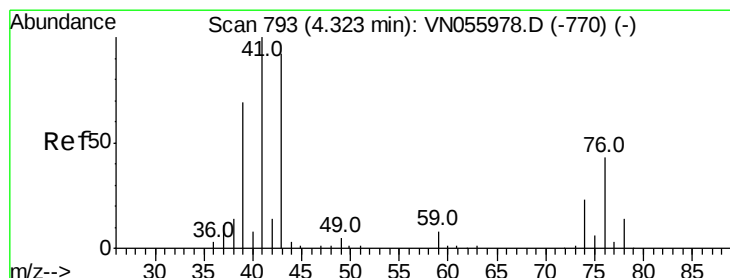
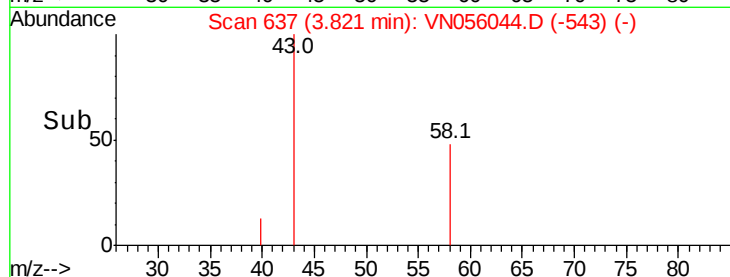
400

200

0

3.75 3.80 3.85

Time-->



#18

Methyl Acetate

Concen: 0.350 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN056044.D

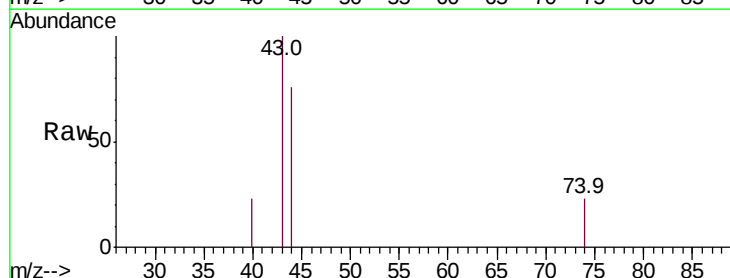
Acq: 6 Jun 2019 14:30

Tgt Ion: 43 Resp: 2887

Ion Ratio Lower Upper

43 100

74 9.1 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

1000

800

600

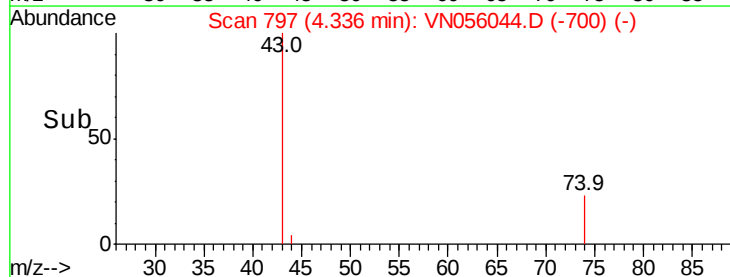
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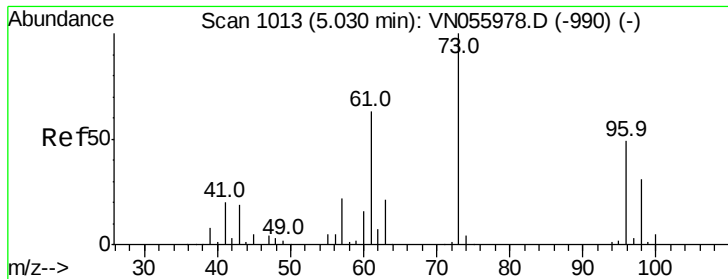
200

0

4.25 4.30 4.35 4.40

Time-->

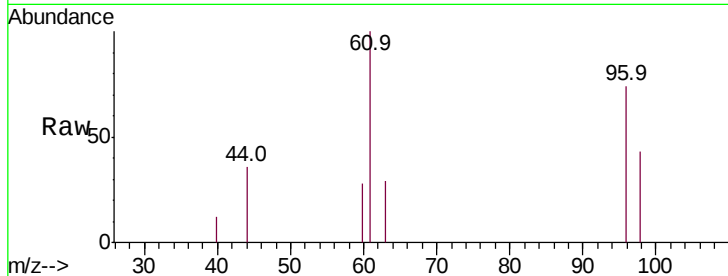




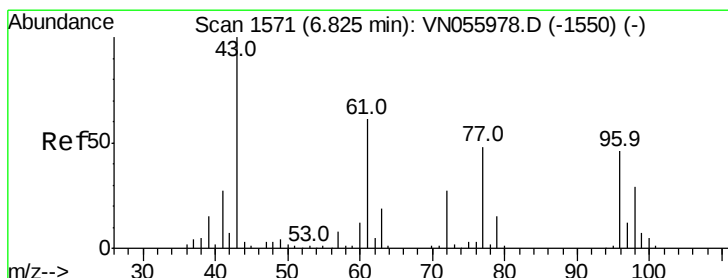
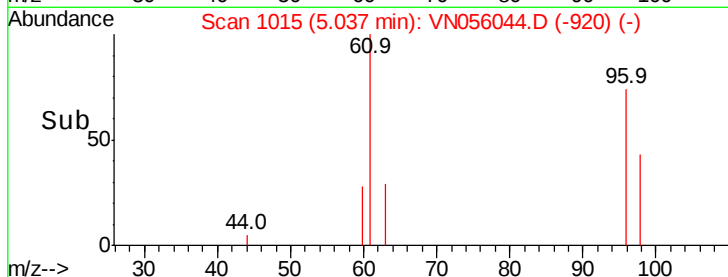
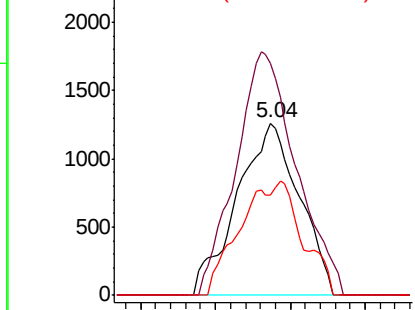
#21
trans-1,2-Dichloroethene
Concen: 1.208 ug/l
RT: 5.04 min Scan# 1015
Delta R.T. 0.01 min
Lab File: VN056044.D
Acq: 6 Jun 2019 14:30

Instrument :
MSVOA_N
ClientSampleId :
LF014MW080-190603

Tot Ion: 96 Resp: 3640
Ion Ratio Lower Upper
96 100
61 134.6 107.8 161.8
98 58.3 49.8 74.8

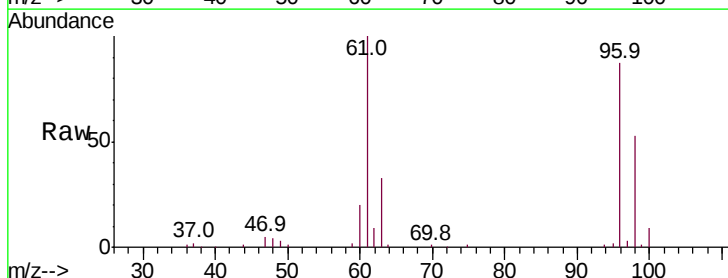


Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0

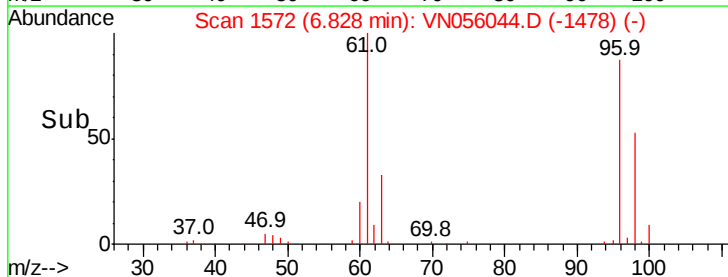
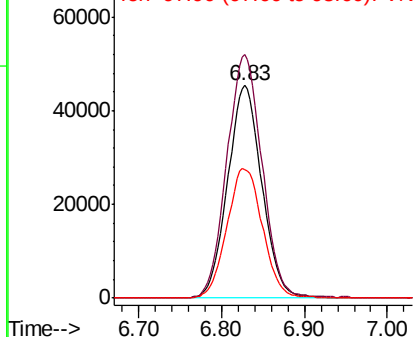


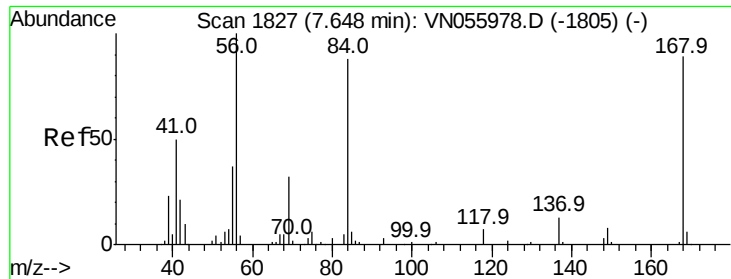
#27
cis-1,2-Dichloroethene
Concen: 36.871 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN056044.D
Acq: 6 Jun 2019 14:30

Tgt Ion: 96 Resp: 130637
Ion Ratio Lower Upper
96 100
61 117.4 0.0 275.8
98 63.4 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

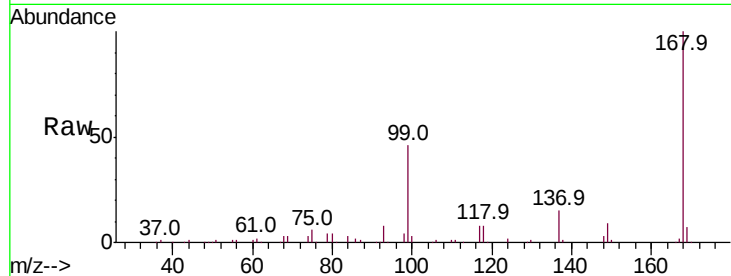




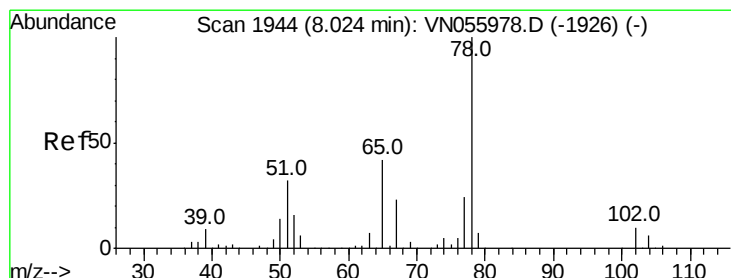
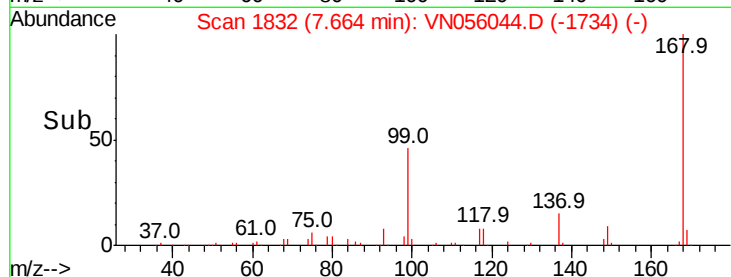
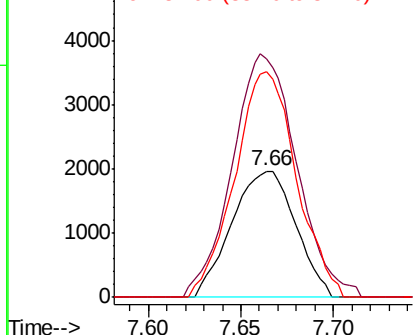
#31
Cyclohexane
Concen: 0.892 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.02 min
Lab File: VN056044.D
Acq: 6 Jun 2019 14:30

Instrument :
MSVOA_N
ClientSampleId :
LF014MW080-190603

Tot Ion: 56 Resp: 4711
Ion Ratio Lower Upper
56 100
69 181.0 25.6 38.4#
84 179.1 67.4 101.0#

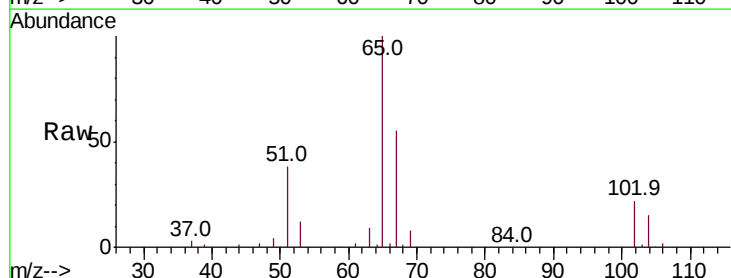


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

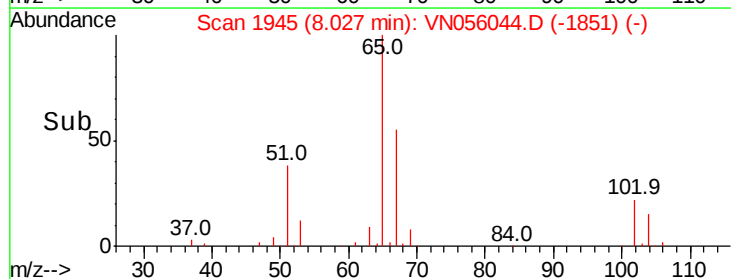
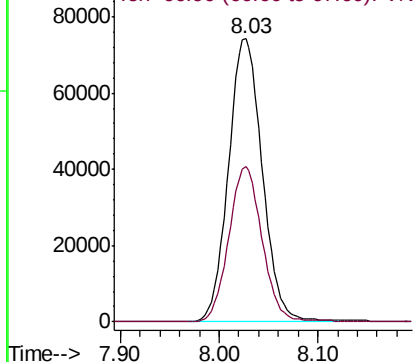


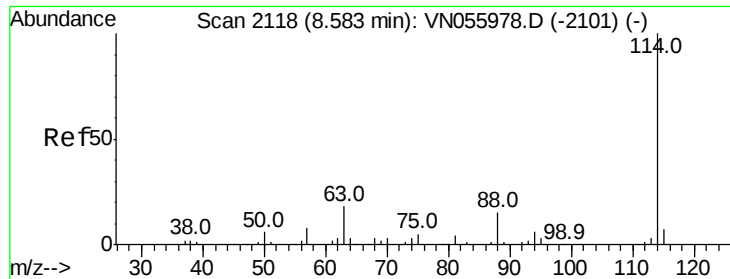
#33
1,2-Dichloroethane-d4
Concen: 53.284 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN056044.D
Acq: 6 Jun 2019 14:30

Tgt Ion: 65 Resp: 177290
Ion Ratio Lower Upper
65 100
67 53.7 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

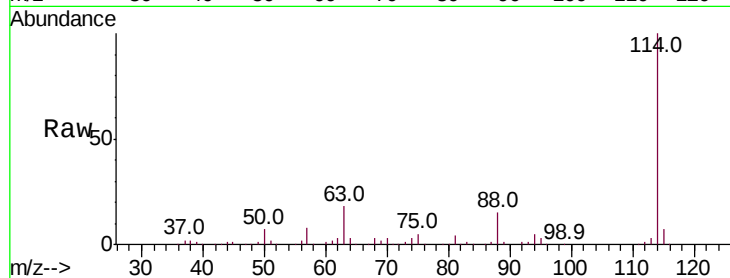




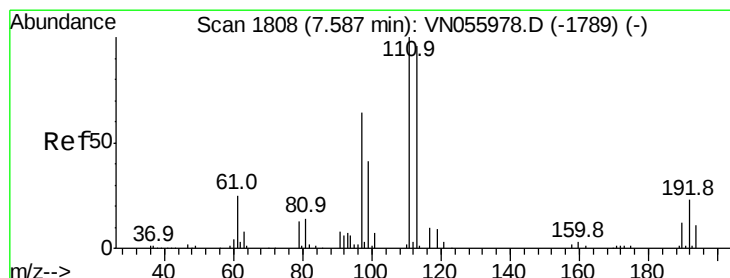
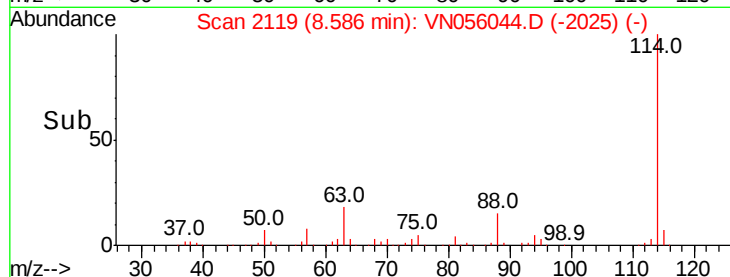
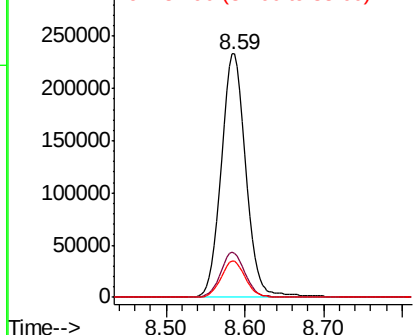
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056044.D
 Acq: 6 Jun 2019 14:30

Instrument :
 MSVOA_N
 ClientSampleId :
 LF014MW080-190603

Tot Ion:114 Resp: 504056
 Ion Ratio Lower Upper
 114 100
 63 18.1 0.0 39.2
 88 14.7 0.0 31.0

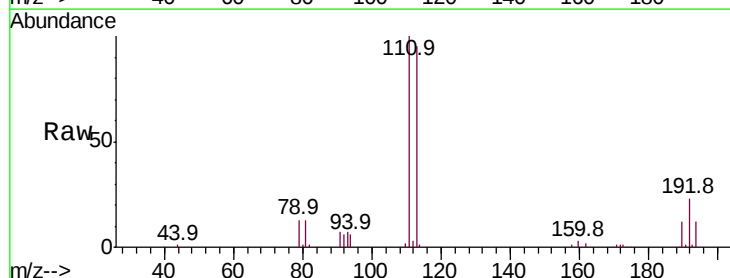


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

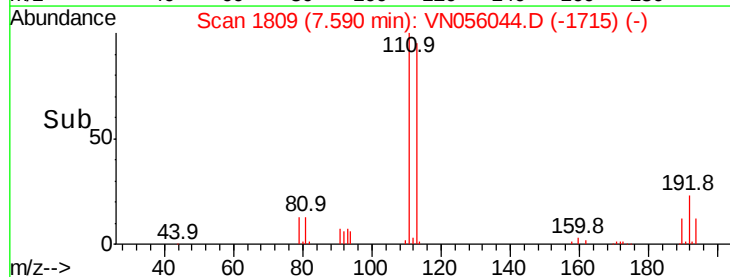
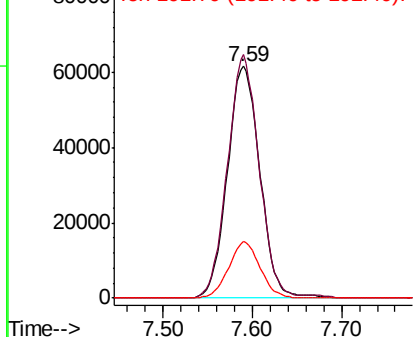


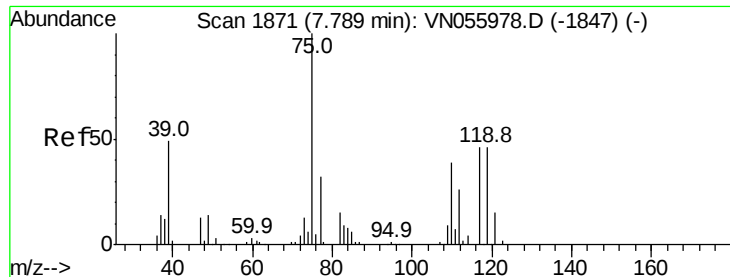
#35
 Dibromofluoromethane
 Concen: 50.292 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056044.D
 Acq: 6 Jun 2019 14:30

Tgt Ion:113 Resp: 155529
 Ion Ratio Lower Upper
 113 100
 111 101.9 81.9 122.9
 192 23.5 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: 4.566 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN056044.D

Acq: 6 Jun 2019 14:30

Instrument :

MSVOA_N

ClientSampleId :

LF014MW080-190603

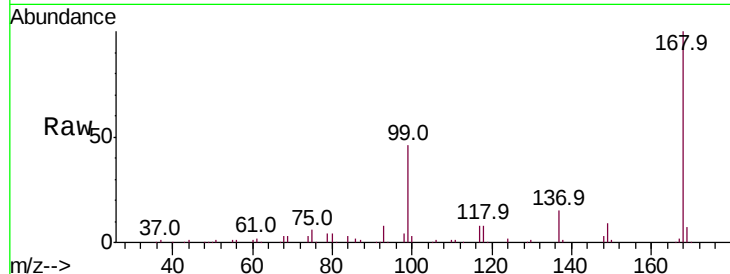
Tot Ion: 75 Resp: 19792

Ion Ratio Lower Upper

75 100

110 8.3 19.0 57.0#

77 0.0 25.1 37.7#

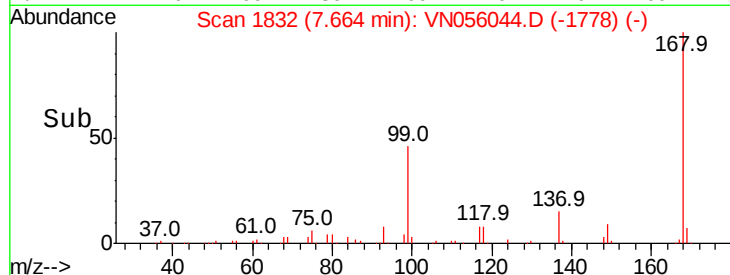


Abundance Ion 74.90 (74.60 to 75.60): VN055978.D (-1847) (-)

Ion 109.90 (109.60 to 110.60): VN055978.D (-1847) (-)

Ion 76.90 (76.60 to 77.60): VN055978.D (-1847) (-)

Time-->

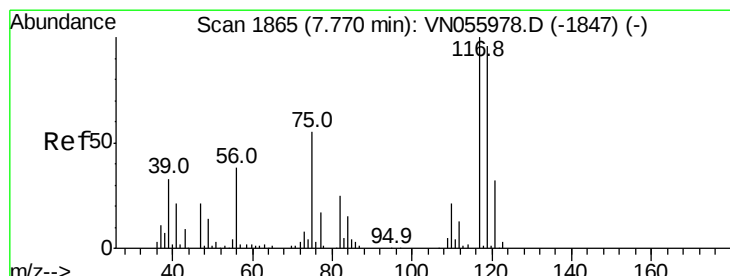


Abundance Ion 74.90 (74.60 to 75.60): VN056044.D (-1778) (-)

Ion 109.90 (109.60 to 110.60): VN056044.D (-1778) (-)

Ion 76.90 (76.60 to 77.60): VN056044.D (-1778) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 7.055 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.10 min

Lab File: VN056044.D

Acq: 6 Jun 2019 14:30

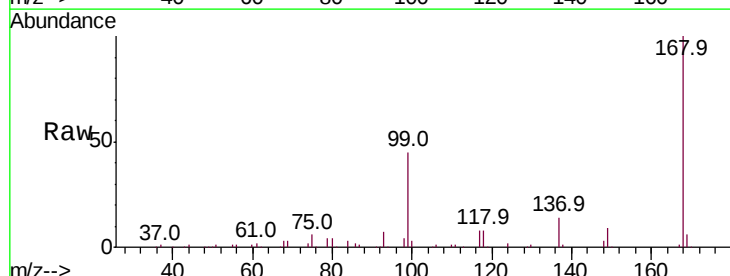
Tgt Ion: 117 Resp: 28191

Ion Ratio Lower Upper

117 100

119 5.4 79.0 118.6#

121 0.0 24.7 37.1#

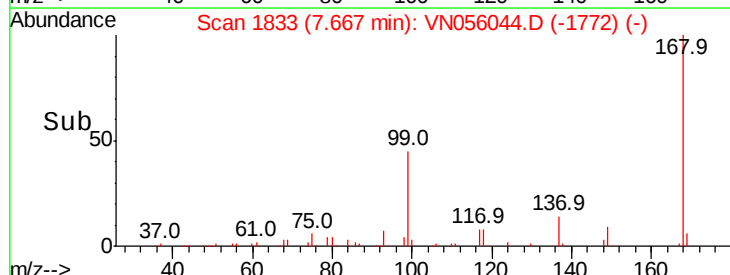


Abundance Ion 116.80 (116.50 to 117.50): VN055978.D (-1847) (-)

Ion 118.80 (118.50 to 119.50): VN055978.D (-1847) (-)

Ion 120.80 (120.50 to 121.50): VN055978.D (-1847) (-)

Time-->

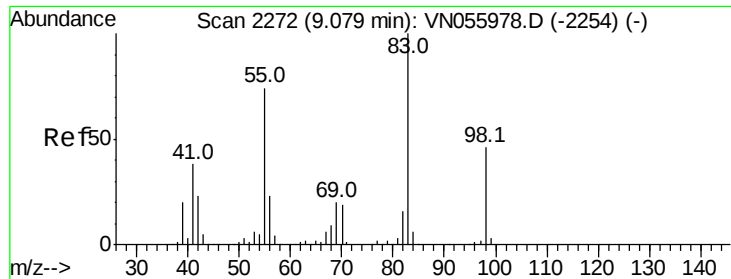


Abundance Ion 116.80 (116.50 to 117.50): VN056044.D (-1772) (-)

Ion 118.80 (118.50 to 119.50): VN056044.D (-1772) (-)

Ion 120.80 (120.50 to 121.50): VN056044.D (-1772) (-)

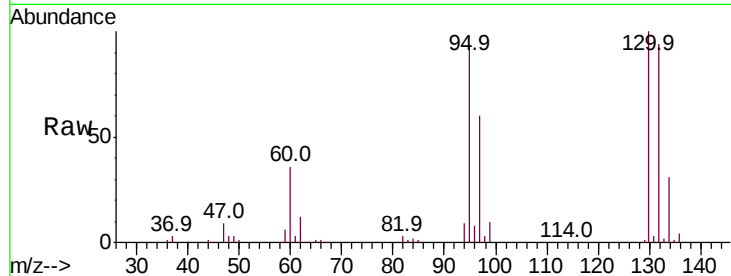
Time-->



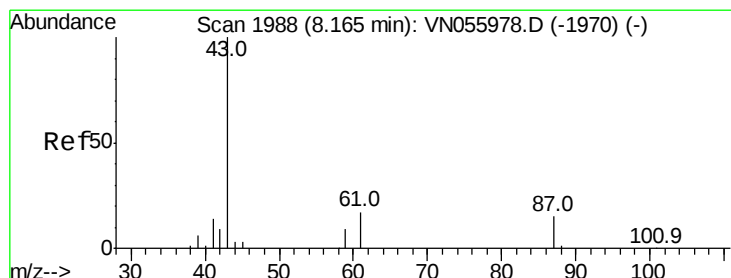
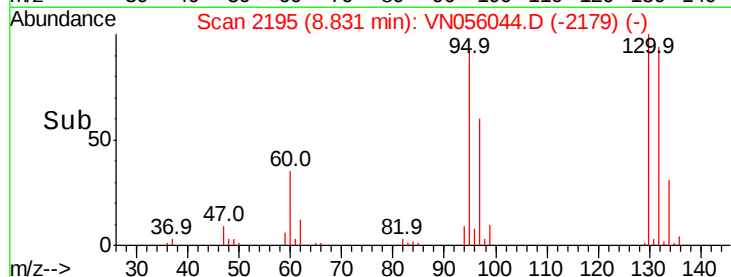
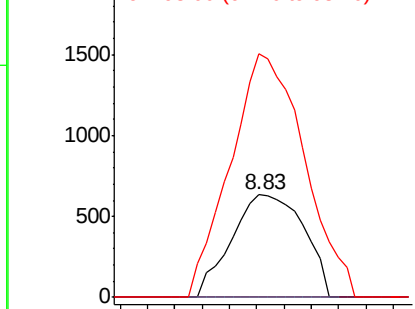
#39
Methylcyclohexane
Concen: 0.216 ug/l
RT: 8.83 min Scan# 2195
Delta R.T. -0.25 min
Lab File: VN056044.D
Acq: 6 Jun 2019 14:30

Instrument :
MSVOA_N
ClientSampleId :
LF014MW080-190603

Tot Ion: 83 Resp: 1168
Ion Ratio Lower Upper
83 100
55 0.0 59.3 88.9#
98 238.1 36.6 54.8#

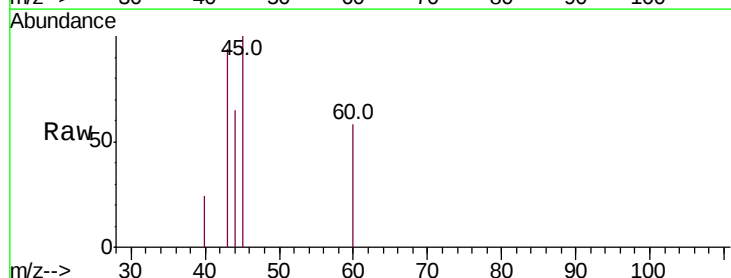


Abundance Ion 83.00 (82.70 to 83.70): VNC
Ion 55.00 (54.70 to 55.70): VNC
Ion 98.00 (97.70 to 98.70): VNC

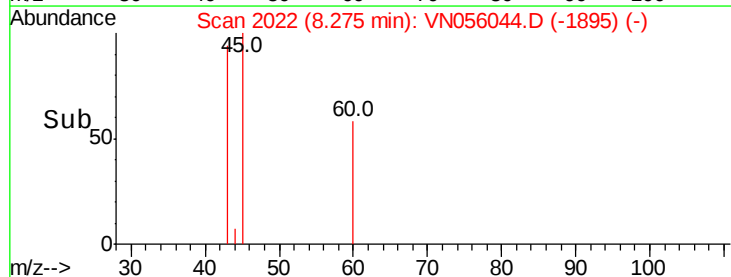
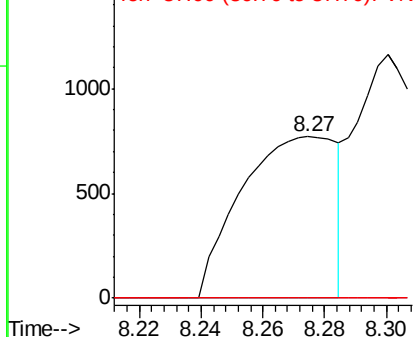


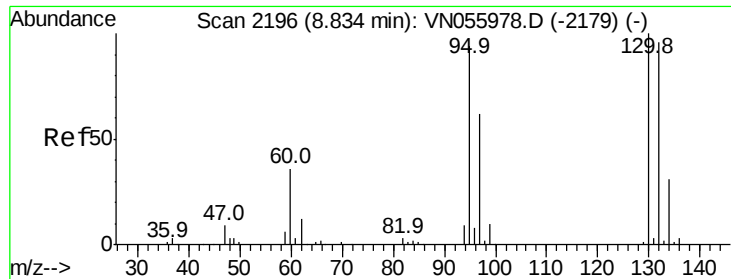
#43
Isopropyl Acetate
Concen: 0.264 ug/l
RT: 8.27 min Scan# 2022
Delta R.T. 0.11 min
Lab File: VN056044.D
Acq: 6 Jun 2019 14:30

Tgt Ion: 43 Resp: 1650
Ion Ratio Lower Upper
43 100
61 0.0 22.2 33.4#
87 0.0 11.4 17.2#



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





#44

Trichloroethene

Concen: 32.424 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN056044.D

Acq: 6 Jun 2019 14:30

Instrument :

MSVOA_N

ClientSampleId :

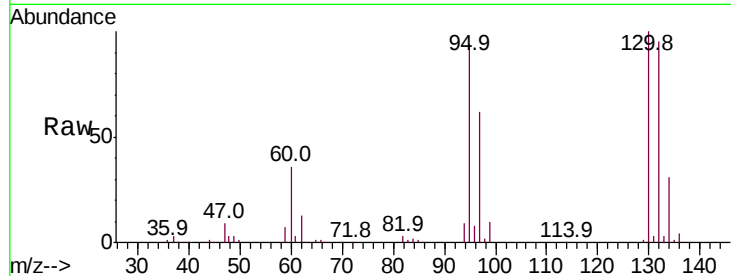
LF014MW080-190603

Tot Ion:130 Resp: 122648

Ion Ratio Lower Upper

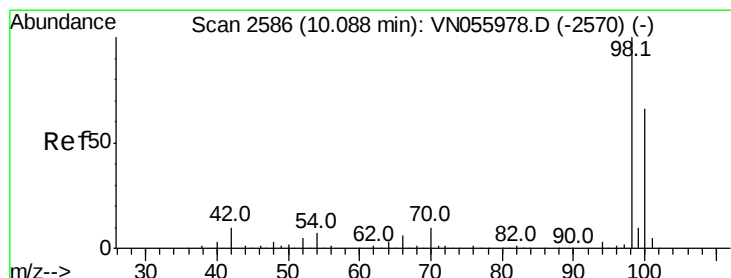
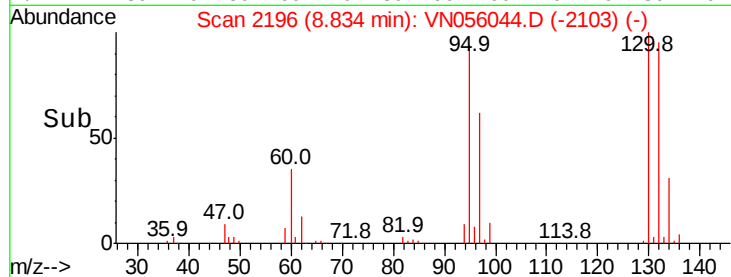
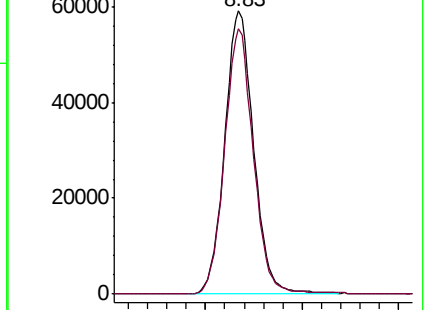
130 100

95 93.6 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN



#50

Toluene-d8

Concen: 53.920 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN056044.D

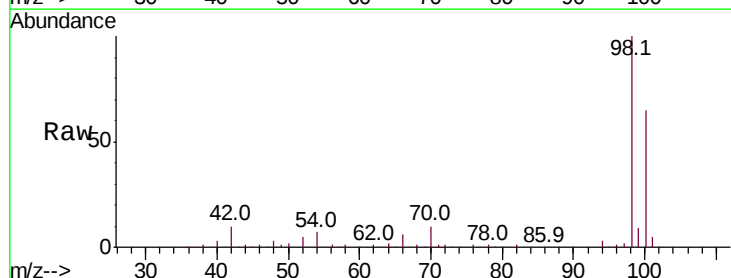
Acq: 6 Jun 2019 14:30

Tgt Ion: 98 Resp: 641656

Ion Ratio Lower Upper

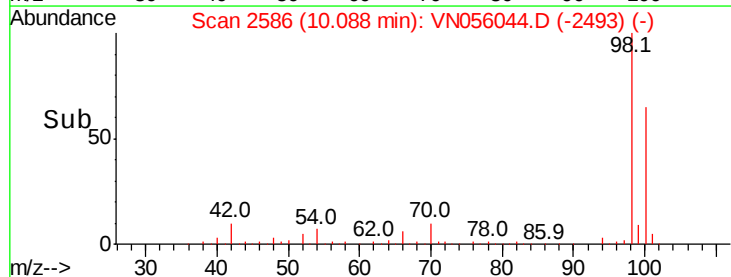
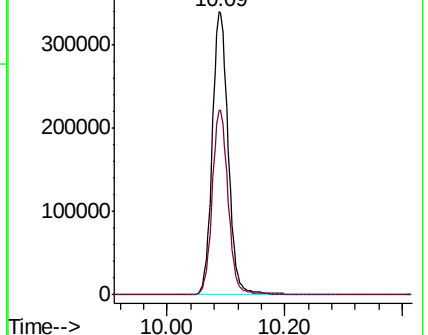
98 100

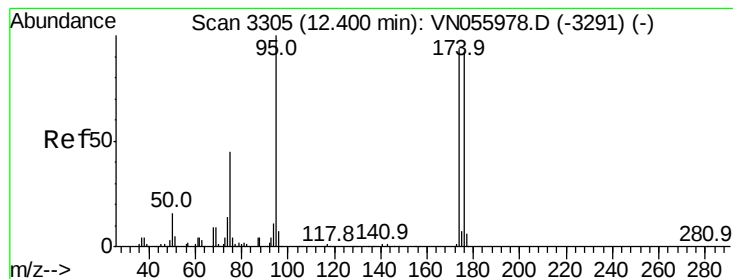
100 65.0 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#62

4-Bromofluorobenzene

Concen: 48.227 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056044.D

Acq: 6 Jun 2019 14:30

Instrument :

MSVOA_N

ClientSampleId :

LF014MW080-190603

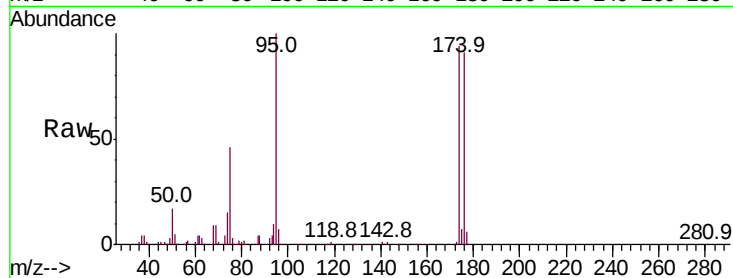
Tot Ion: 95 Resp: 195171

Ion Ratio Lower Upper

95 100

174 96.5 0.0 191.0

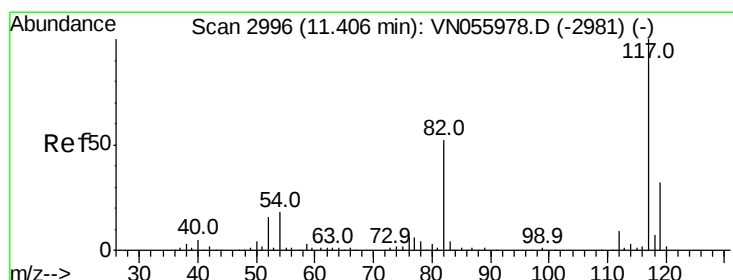
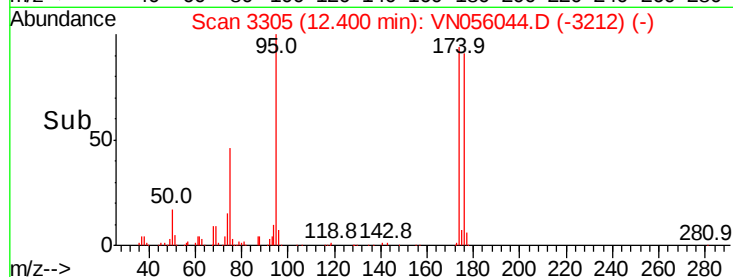
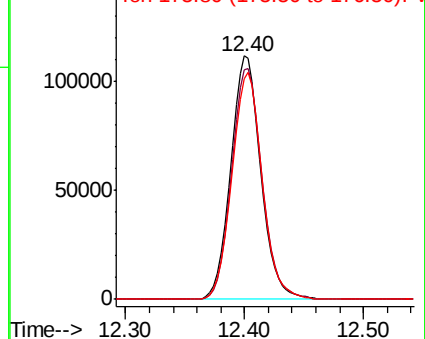
176 93.8 0.0 185.2



Abundance Ion 94.90 (94.60 to 95.60): VN055978.D (-3291) (-)

150000 Ion 173.80 (173.50 to 174.50): VN055978.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN055978.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN056044.D

Acq: 6 Jun 2019 14:30

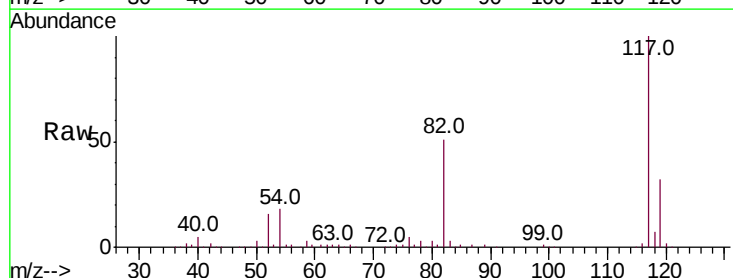
Tgt Ion: 117 Resp: 466550

Ion Ratio Lower Upper

117 100

82 51.5 41.8 62.8

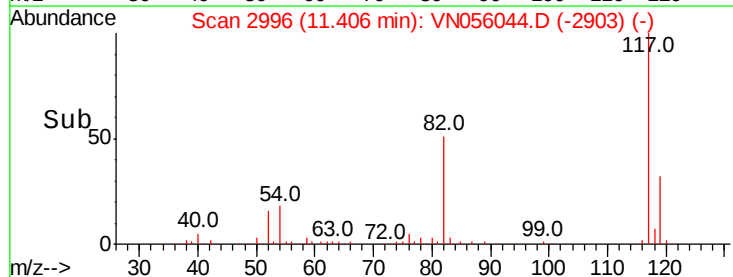
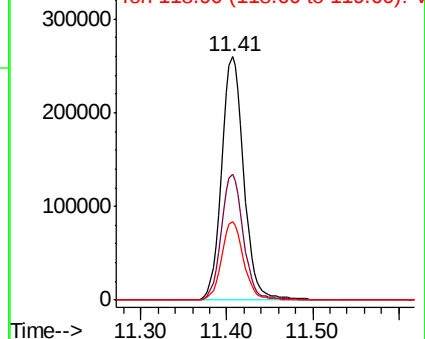
119 32.0 25.4 38.0

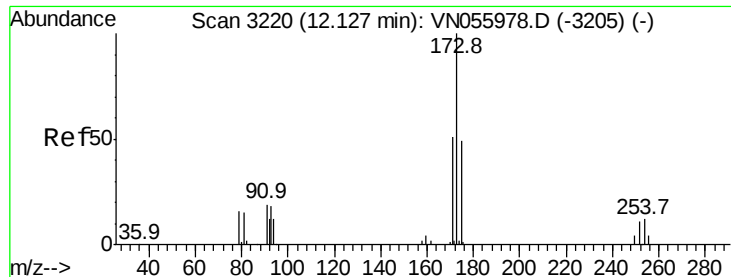


Abundance Ion 116.90 (116.60 to 117.60): VN055978.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN055978.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN055978.D (-2981) (-)





#71

Bromoform

Concen: 3.181 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN056044.D

Acq: 6 Jun 2019 14:30

Instrument :

MSVOA_N

ClientSampleId :

LF014MW080-190603

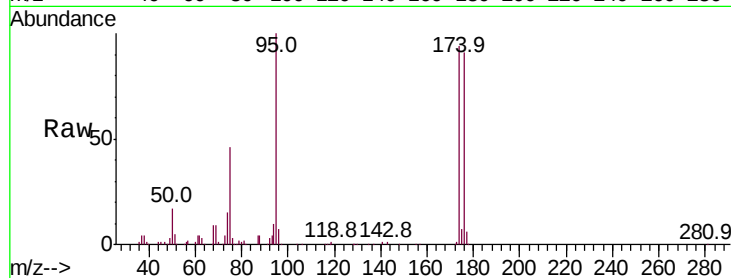
Tot Ion:173 Resp: 1251

Ion Ratio Lower Upper

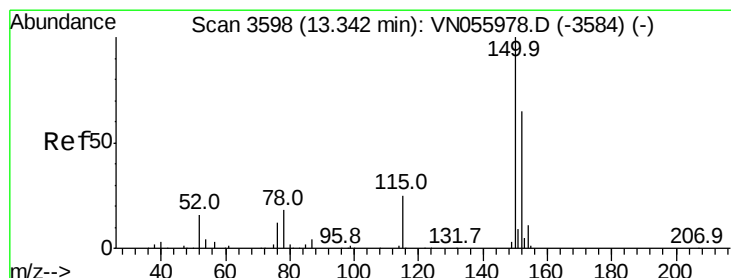
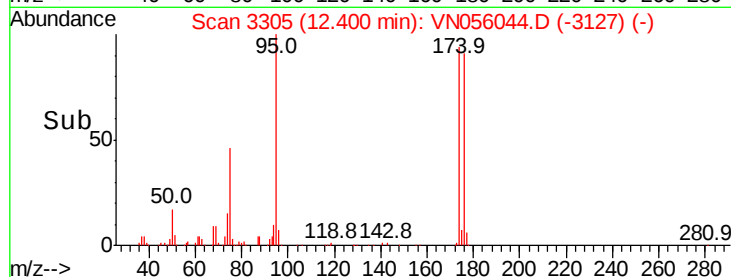
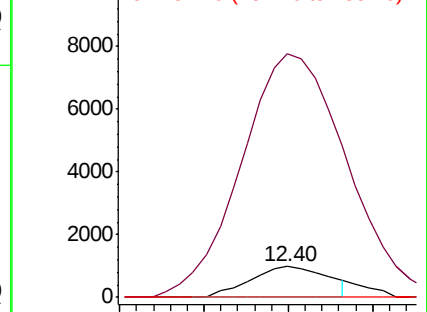
173 100

175 928.6 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: VN056044.D

Acq: 6 Jun 2019 14:30

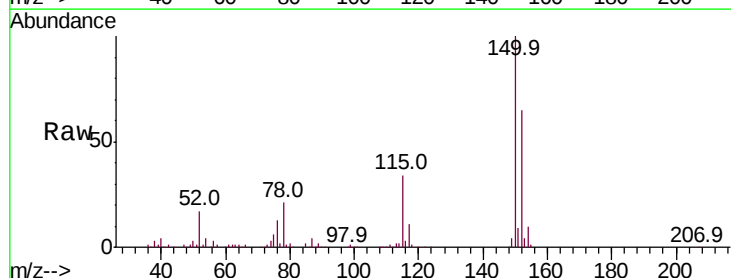
Tgt Ion:152 Resp: 147817

Ion Ratio Lower Upper

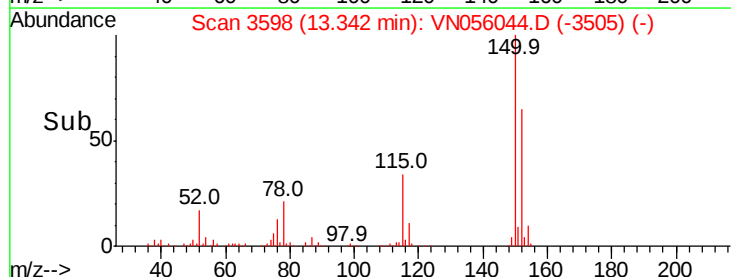
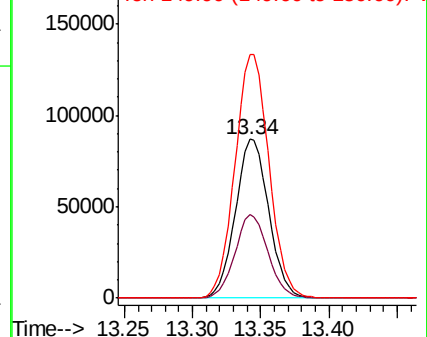
152 100

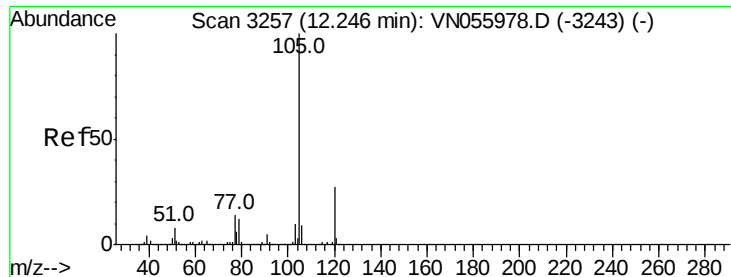
115 52.2 27.0 81.0

150 156.3 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: 12.40 min Scan# 3304

Delta R.T. 0.15 min

Lab File: VN056044.D

Acq: 6 Jun 2019 14:30

Instrument :

MSVOA_N

ClientSampleId :

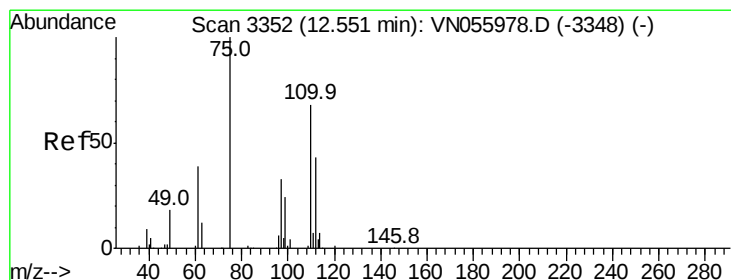
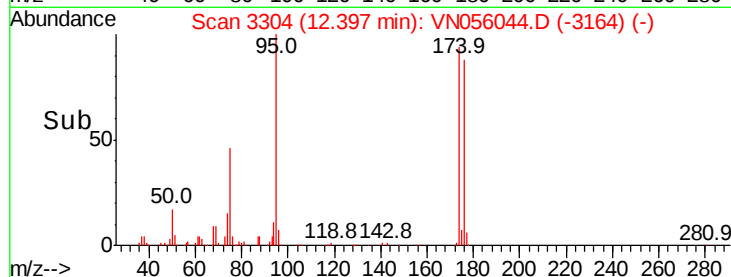
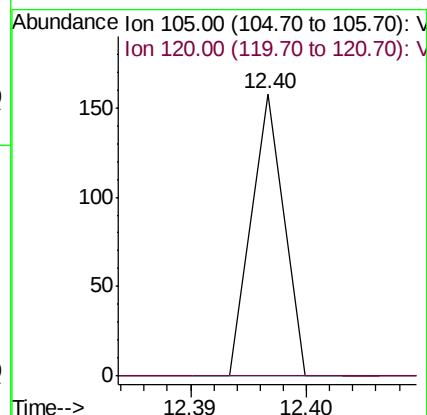
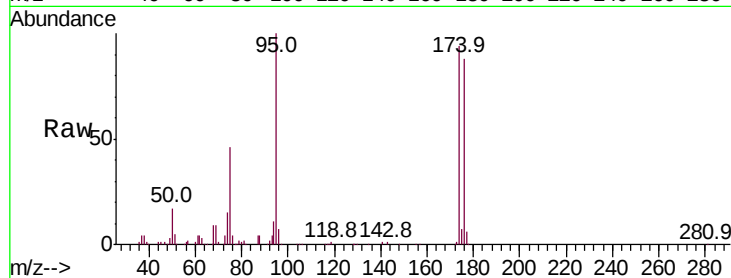
LF014MW080-190603

Tot Ion:105 Resp: 30

Ion Ratio Lower Upper

105 100

120 0.0 13.6 40.7#



#76

1,2,3-Trichloropropane

Concen: 33.330 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056044.D

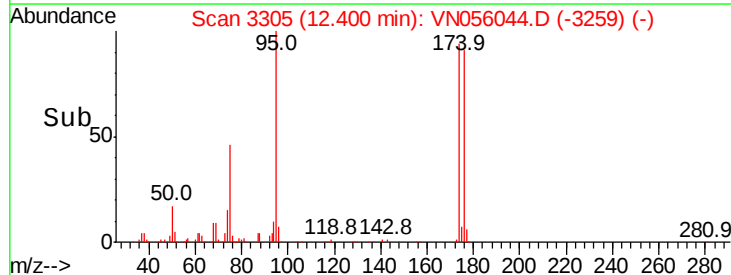
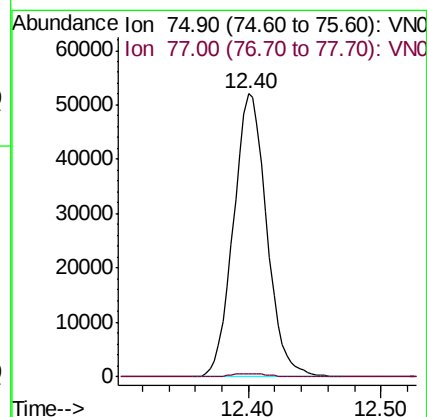
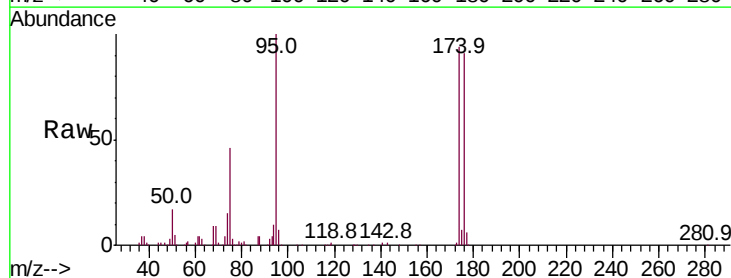
Acq: 6 Jun 2019 14:30

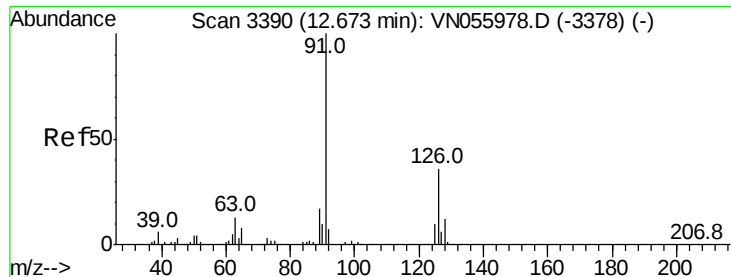
Tgt Ion: 75 Resp: 90653

Ion Ratio Lower Upper

75 100

77 0.6 0.0 0.0#





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.59 min Scan# 3364

Delta R.T. -0.08 min

Lab File: VN056044.D

Acq: 6 Jun 2019 14:30

Instrument :

MSVOA_N

ClientSampleId :

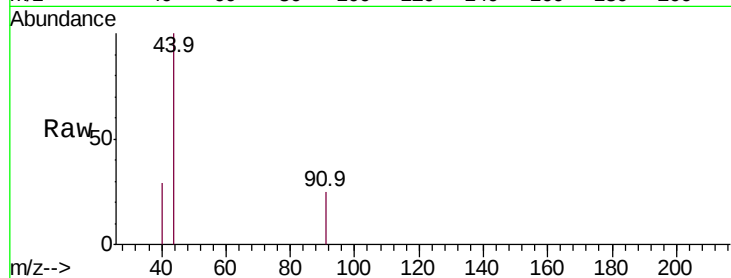
LF014MW080-190603

Tot Ion: 91 Resp: 61

Ion Ratio Lower Upper

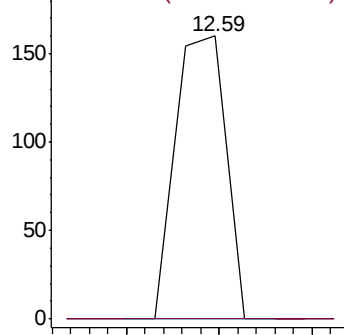
91 100

126 0.0 18.1 54.4#

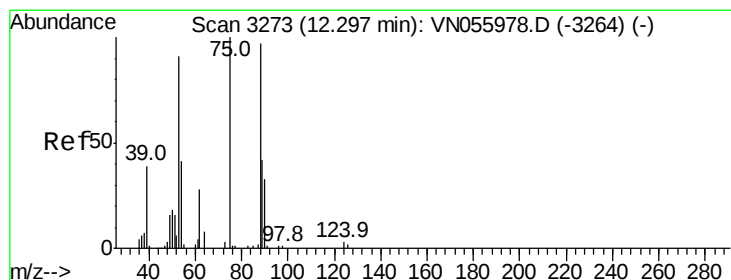
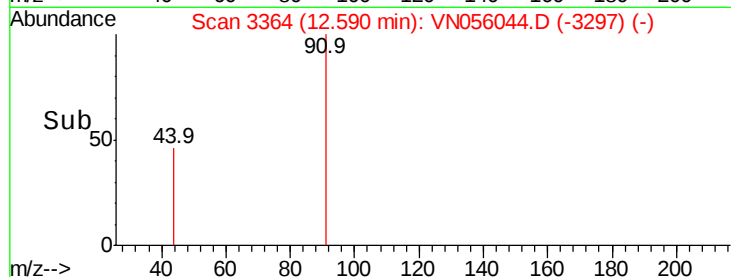


Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 110.994 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056044.D

Acq: 6 Jun 2019 14:30

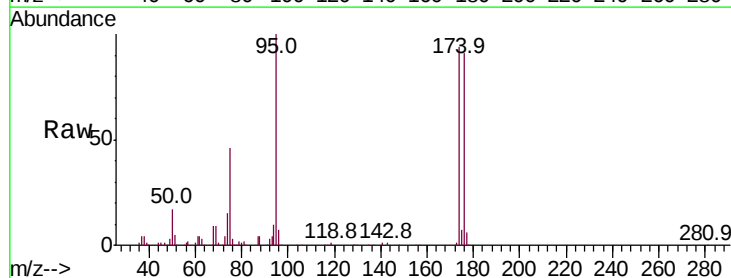
Tgt Ion: 75 Resp: 90653

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

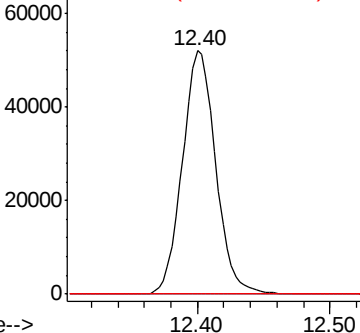
89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



Time-->

