

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060819\
 Data File : VN056112.D
 Acq On : 7 Jun 2019 21:00
 Operator : JC/SP
 Sample : K3203-10DL 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP-0530-190604DL

Quant Time: Jun 08 05:14:06 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	339503	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	514703	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	485003	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	160068	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	180084	53.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.84%	
35) Dibromofluoromethane	7.59	113	156589	49.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.18%	
50) Toluene-d8	10.09	98	650368	53.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.04%	
62) 4-Bromofluorobenzene	12.40	95	207180	50.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.28%	

Target Compounds

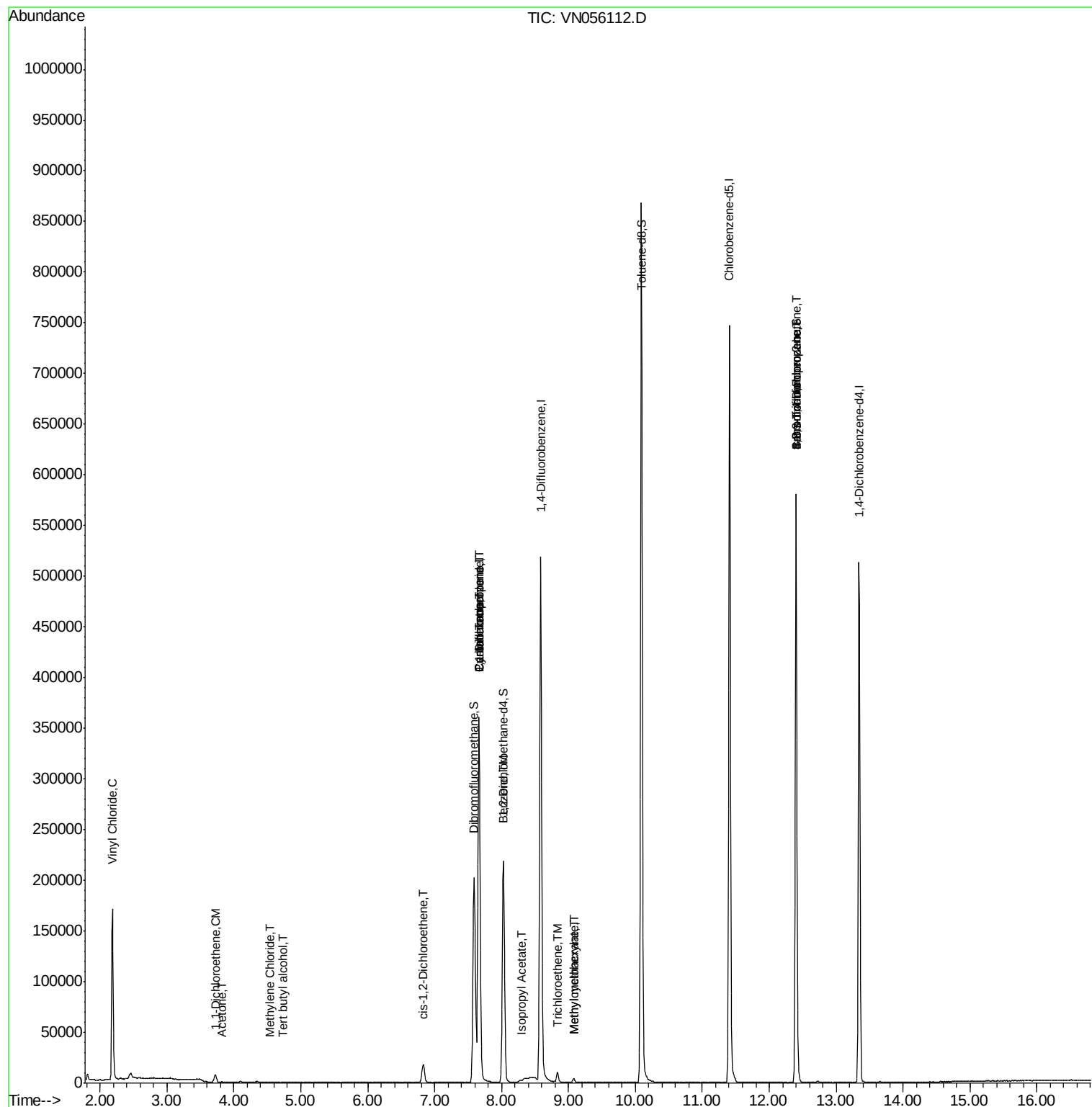
						Qvalue
4) Vinyl Chloride	2.19	62	159484	43.202	ug/l	100
11) Tert butyl alcohol	4.73	59	212	0.361	ug/l #	74
12) 1,1-Dichloroethene	3.73	96	4519	1.586	ug/l	97
16) Acetone	3.82	43	548	0.340	ug/l #	62
18) Methyl Acetate	4.34	43	1615	Below Cal	#	73
20) Methylene Chloride	4.54	84	702	0.211	ug/l #	61
27) cis-1,2-Dichloroethene	6.83	96	13159	3.666	ug/l	89
31) Cyclohexane	7.66	56	6232	1.165	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	20154	4.554	ug/l #	47
38) Carbon Tetrachloride	7.67	117	27613	6.767	ug/l #	15
39) Methylcyclohexane	9.08	83	2019	0.366	ug/l	94
40) Benzene	8.04	78	10177	0.757	ug/l	99
43) Isopropyl Acetate	8.28	43	1827	0.286	ug/l #	53
44) Trichloroethene	8.83	130	4091	1.059	ug/l	97
48) Methyl methacrylate	9.08	41	972	0.311	ug/l #	51
71) Bromoform	12.40	173	1458	3.235	ug/l #	1
73) Isopropylbenzene	12.25	105	402	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	94272	32.007	ug/l #	100
79) 2-Chlorotoluene	12.40	91	526	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	94272	106.591	ug/l #	15

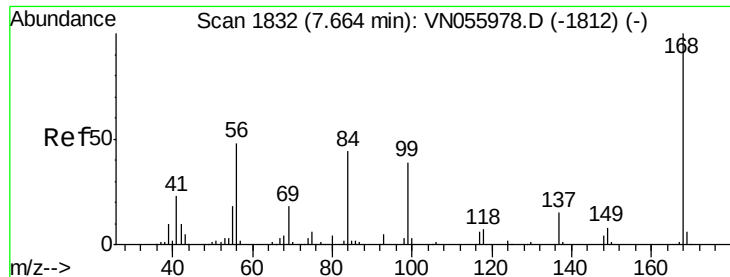
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jun 04 11:02:09 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056112.D

Acq: 7 Jun 2019 21:00

Instrument :

MSVOA_N

ClientSampleId :

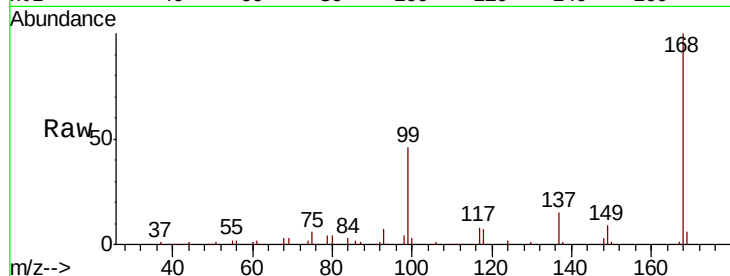
DUP-0530-190604DL

Tot Ion:168 Resp: 339503

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

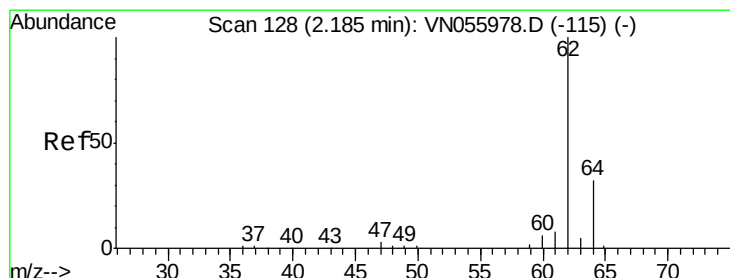
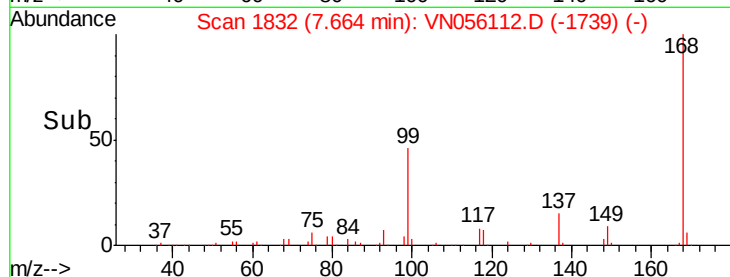
100000

50000

0

7.60 7.70 7.80

Time-->



#4

Vinyl Chloride

Concen: 43.202 ug/l

RT: 2.19 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN056112.D

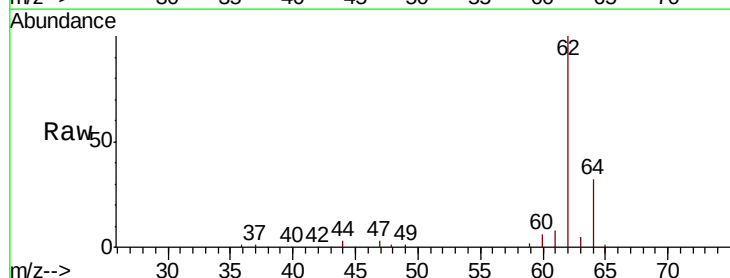
Acq: 7 Jun 2019 21:00

Tgt Ion: 62 Resp: 159484

Ion Ratio Lower Upper

62 100

64 32.0 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VN

Ion 63.90 (63.60 to 64.60): VN

2.19

120000

100000

80000

60000

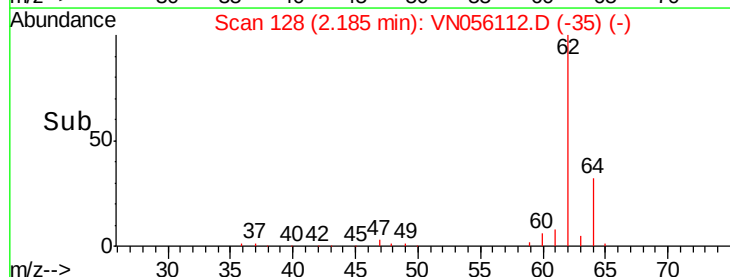
40000

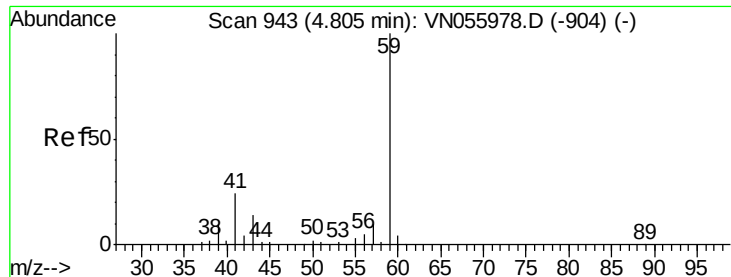
20000

0

2.10 2.15 2.20 2.25 2.30

Time-->



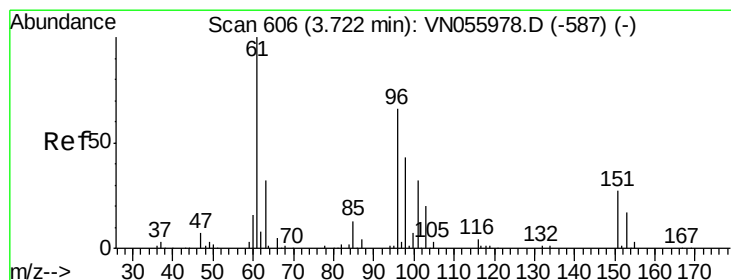
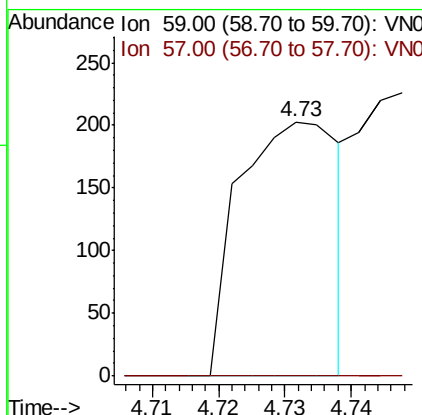
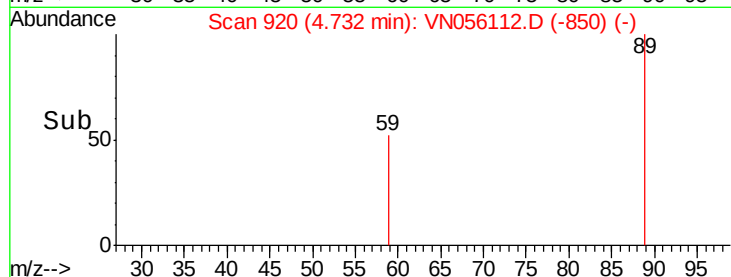
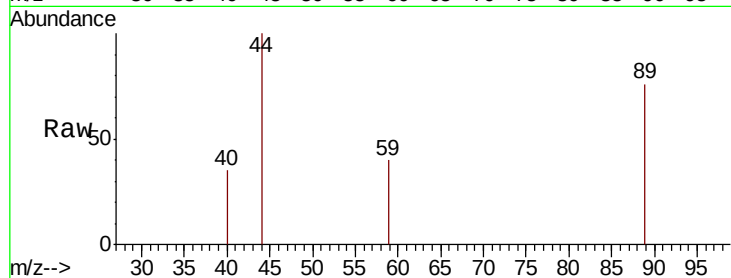


#11

Tert butyl alcohol
Concen: 0.361 ug/l
RT: 4.73 min Scan# 920
Delta R.T. -0.07 min
Lab File: VN056112.D
Acq: 7 Jun 2019 21:00

Instrument :
MSVOA_N
ClientSampleId :
DUP-0530-190604DL

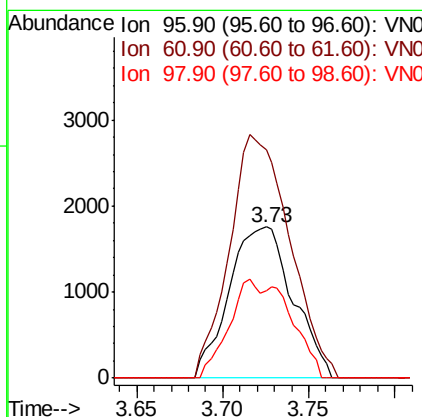
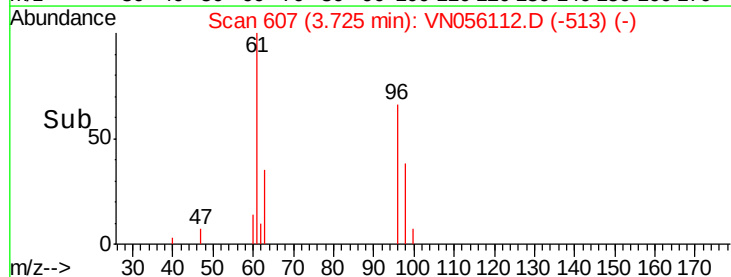
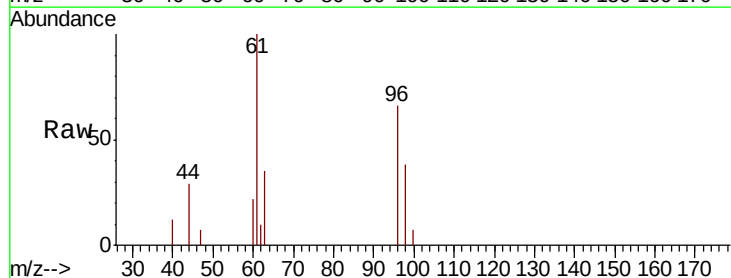
Tot Ion: 59 Resp: 212
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.6#

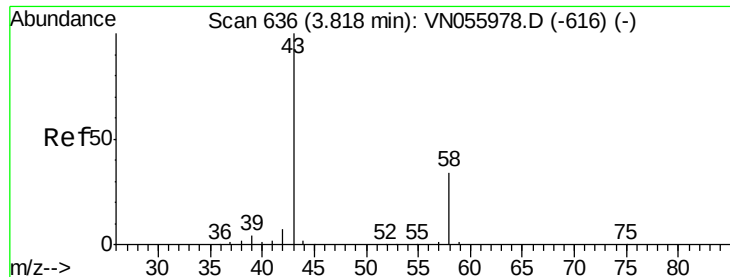


#12

1,1-Dichloroethene
Concen: 1.586 ug/l
RT: 3.73 min Scan# 607
Delta R.T. 0.00 min
Lab File: VN056112.D
Acq: 7 Jun 2019 21:00

Tgt Ion: 96 Resp: 4519
Ion Ratio Lower Upper
96 100
61 151.2 123.2 184.8
98 58.1 50.4 75.6





#16

Acetone

Concen: 0.340 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN056112.D

Acq: 7 Jun 2019 21:00

Instrument :

MSVOA_N

ClientSampleId :

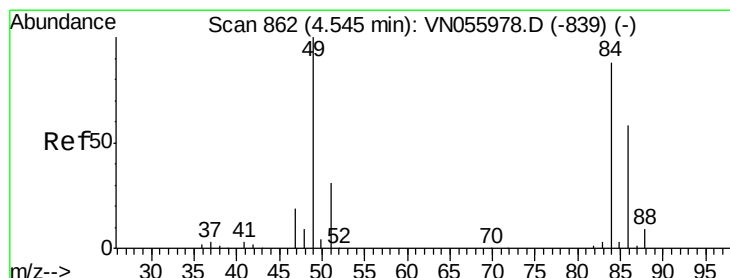
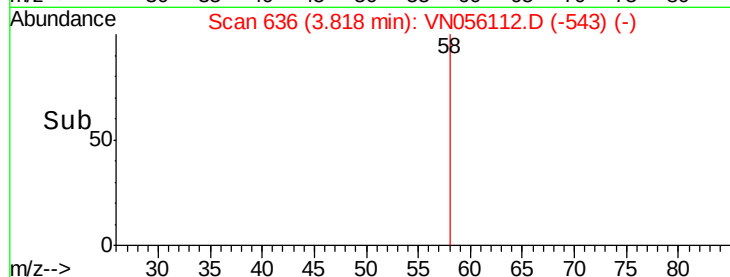
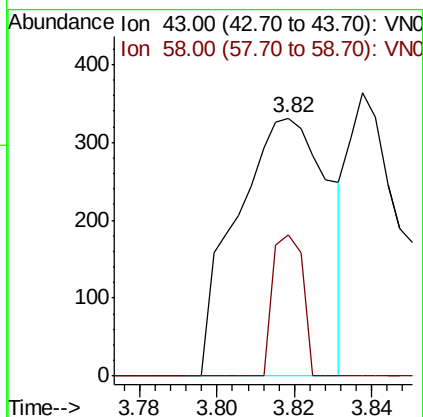
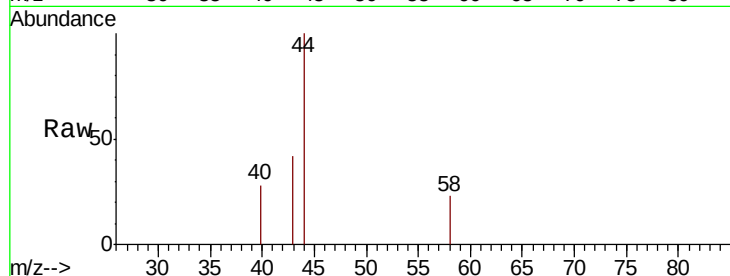
DUP-0530-190604DL

Tot Ion: 43 Resp: 548

Ion Ratio Lower Upper

43 100

58 54.7 26.6 39.8#



#20

Methylene Chloride

Concen: 0.211 ug/l

RT: 4.54 min Scan# 859

Delta R.T. -0.01 min

Lab File: VN056112.D

Acq: 7 Jun 2019 21:00

Tgt Ion: 84 Resp: 702

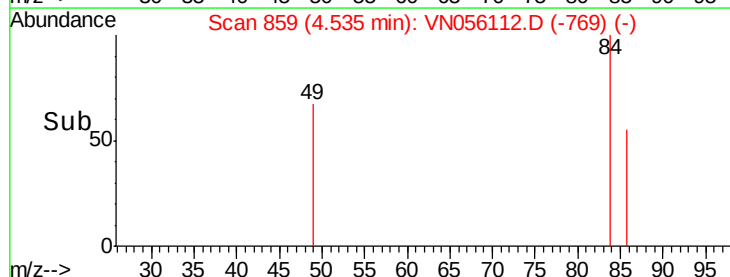
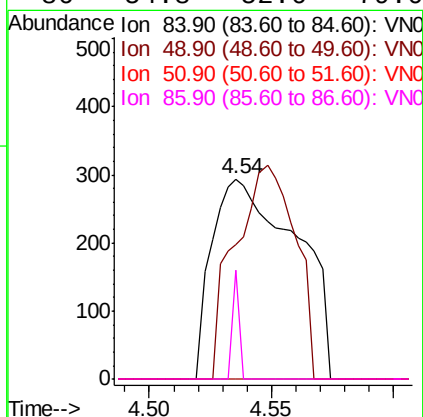
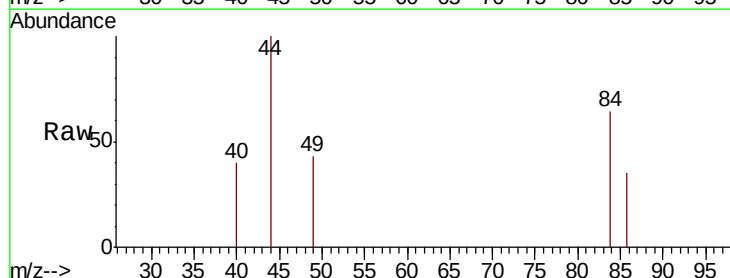
Ion Ratio Lower Upper

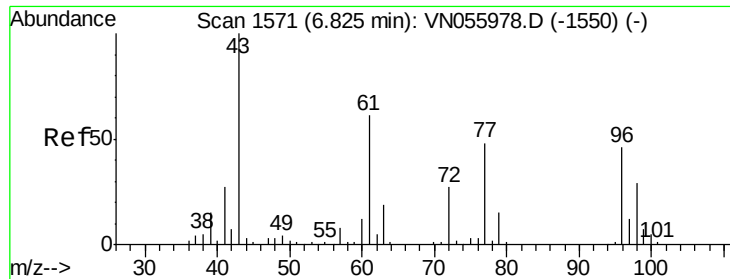
84 100

49 67.0 93.5 140.3#

51 0.0 28.6 43.0#

86 54.8 52.6 79.0





#27

cis-1,2-Dichloroethene

Concen: 3.666 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN056112.D

Acq: 7 Jun 2019 21:00

Instrument :

MSVOA_N

ClientSampleId :

DUP-0530-190604DL

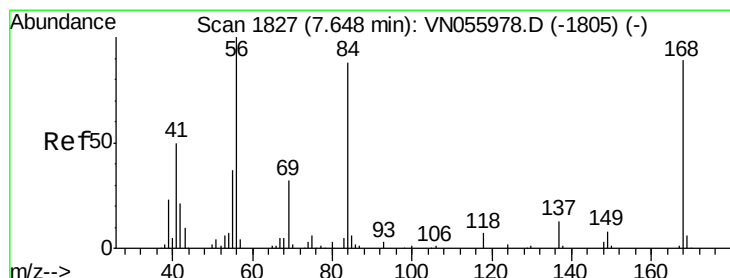
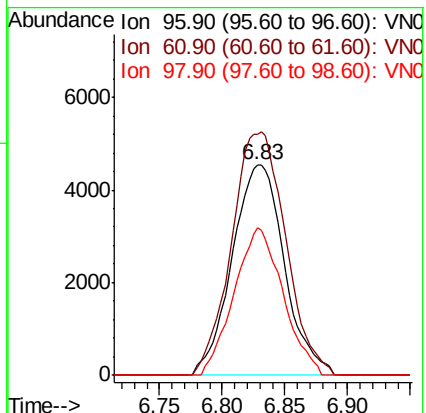
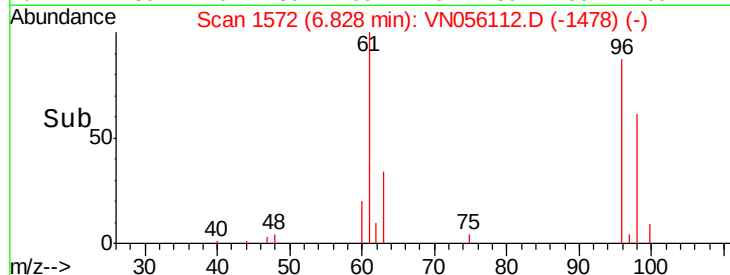
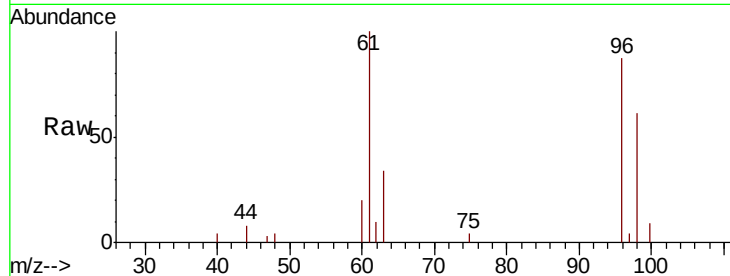
Tot Ion: 96 Resp: 13159

Ion Ratio Lower Upper

96 100

61 119.9 0.0 275.8

98 65.5 0.0 128.4



#31

Cyclohexane

Concen: 1.165 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN056112.D

Acq: 7 Jun 2019 21:00

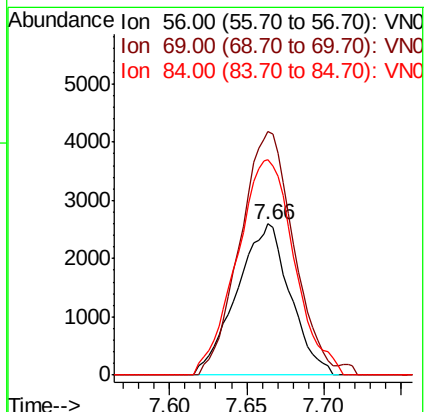
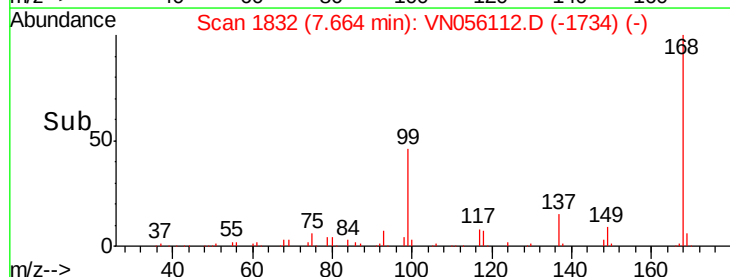
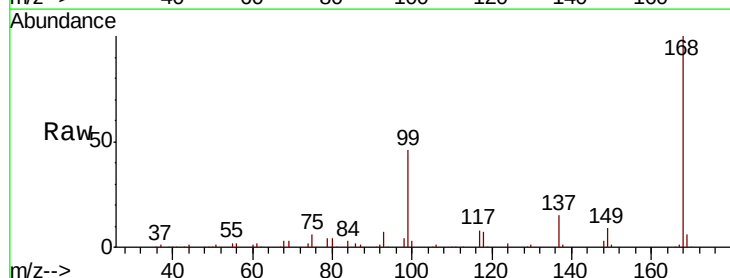
Tgt Ion: 56 Resp: 6232

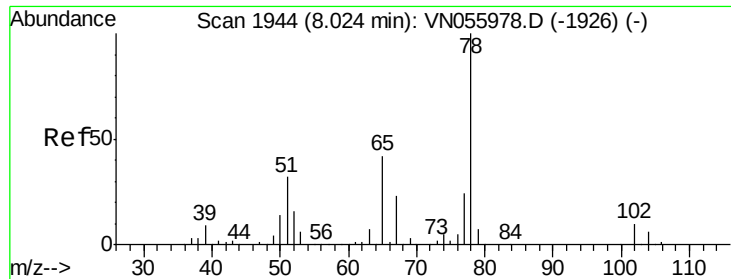
Ion Ratio Lower Upper

56 100

69 160.8 25.6 38.4#

84 141.9 67.4 101.0#

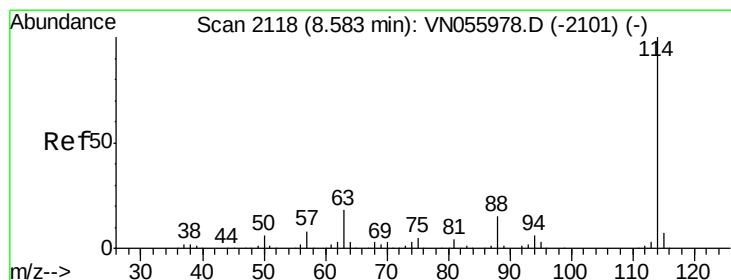
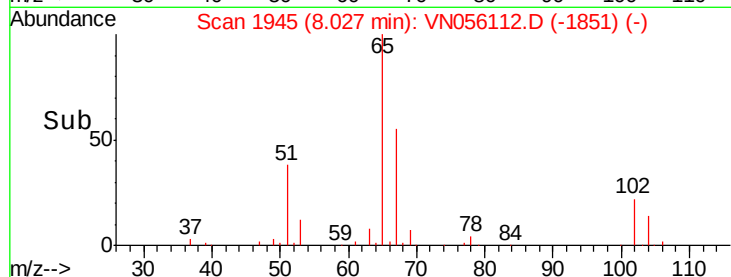
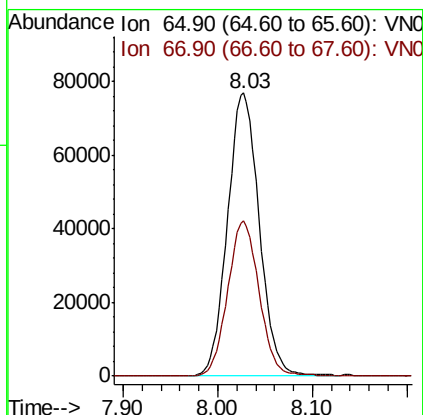
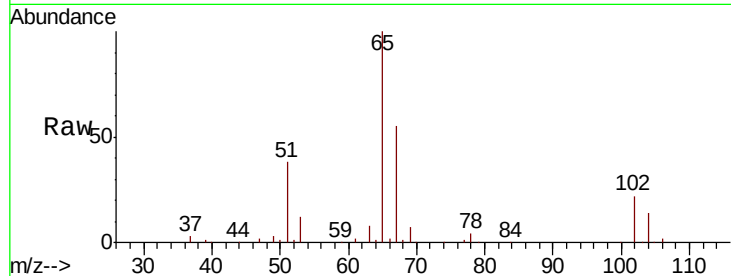




#33
 1,2-Dichloroethane-d4
 Concen: 53.422 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056112.D
 Acq: 7 Jun 2019 21:00

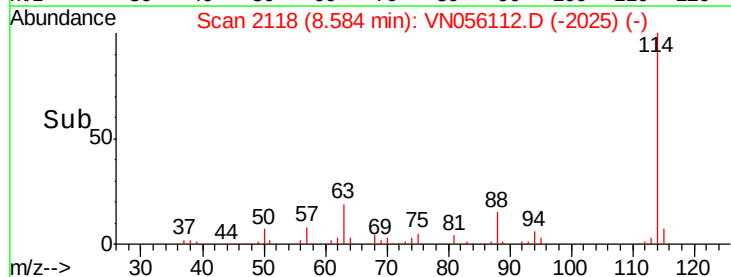
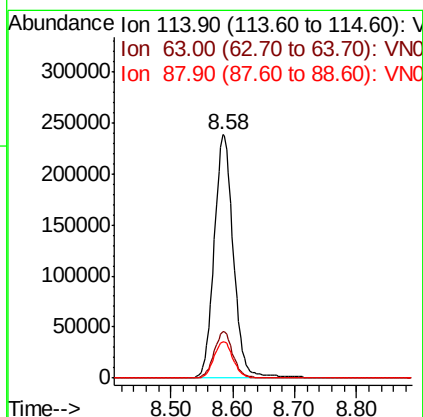
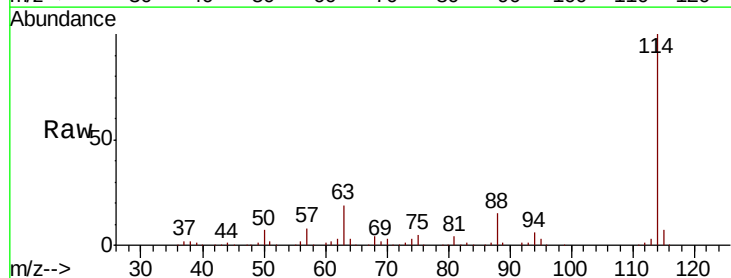
Instrument :
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 DUP-0530-190604DL

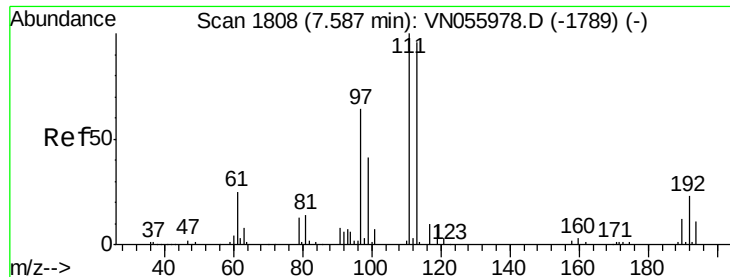
Tot Ion: 65 Resp: 180084
 Ion Ratio Lower Upper
 65 100
 67 54.1 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN056112.D
 Acq: 7 Jun 2019 21:00

Tgt Ion: 114 Resp: 514703
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 39.2
 88 15.0 0.0 31.0

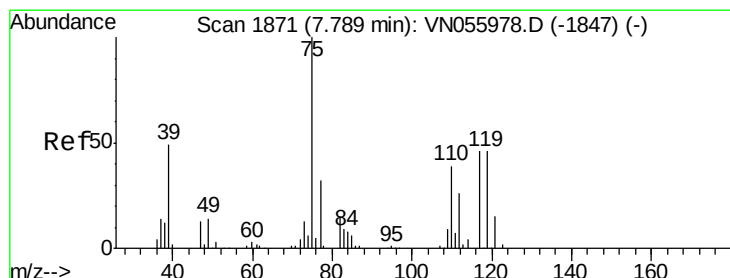
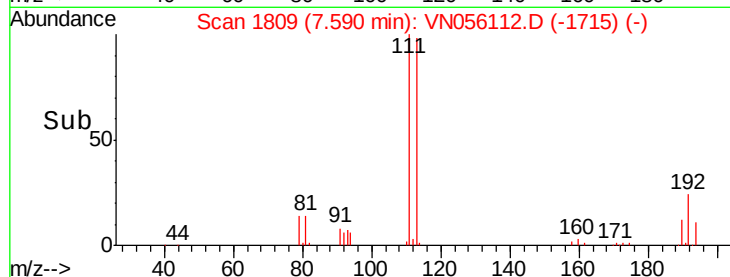
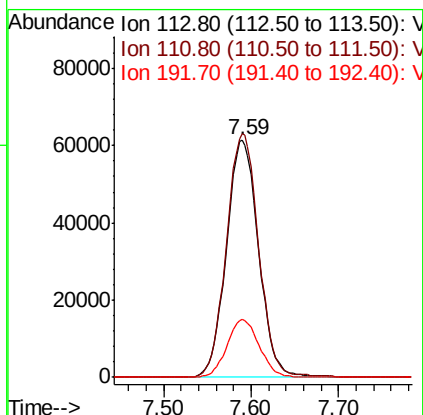
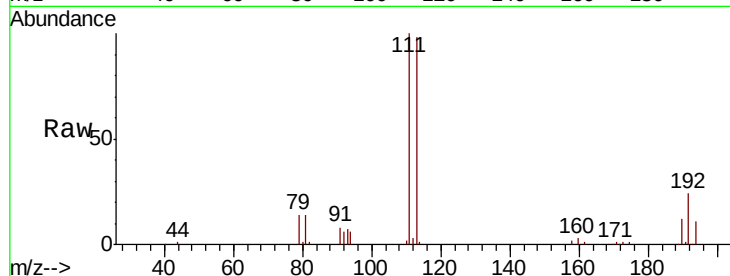




#35
 Dibromofluoromethane
 Concen: 49.587 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056112.D
 Acq: 7 Jun 2019 21:00

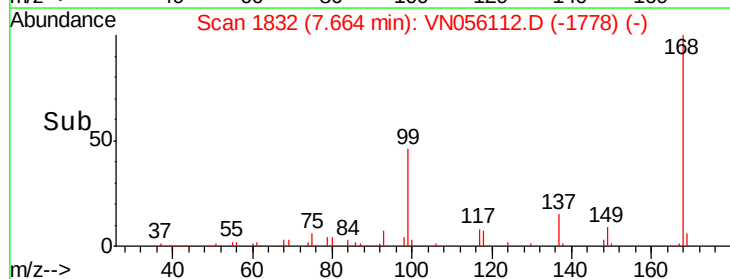
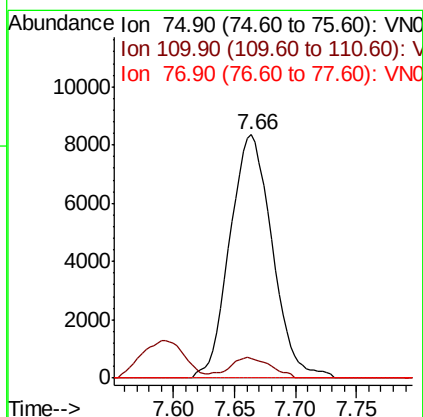
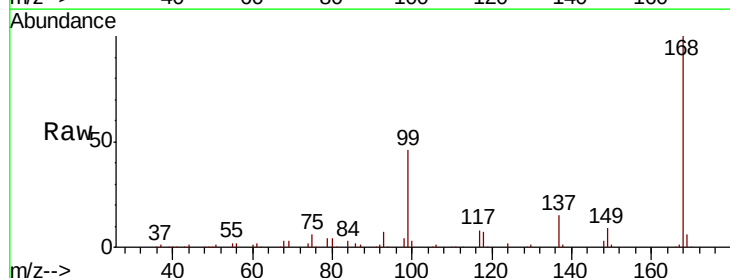
Instrument :
 MSVOA_N
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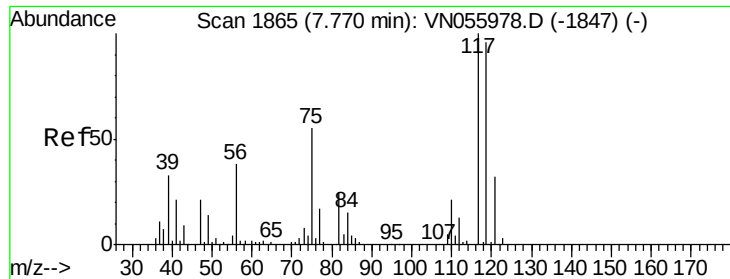
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.9	122.9
192	24.4	19.5	29.3



#36
 1,1-Dichloropropene
 Concen: 4.554 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056112.D
 Acq: 7 Jun 2019 21:00

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.3	19.0	57.0#
77	0.0	25.1	37.7#





#38

Carbon Tetrachloride

Concen: 6.767 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.10 min

Lab File: VN056112.D

Acq: 7 Jun 2019 21:00

Instrument :

MSVOA_N

ClientSampleId :

DUP-0530-190604DL

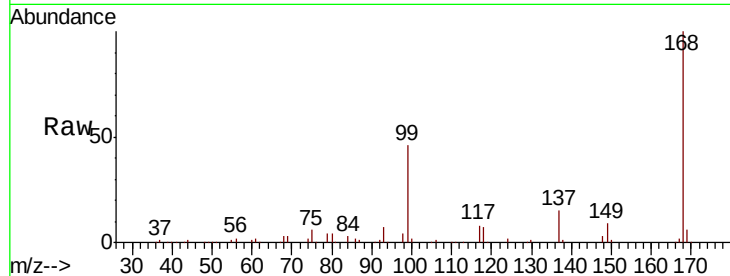
Tot Ion:117 Resp: 27613

Ion Ratio Lower Upper

117 100

119 5.1 79.0 118.6#

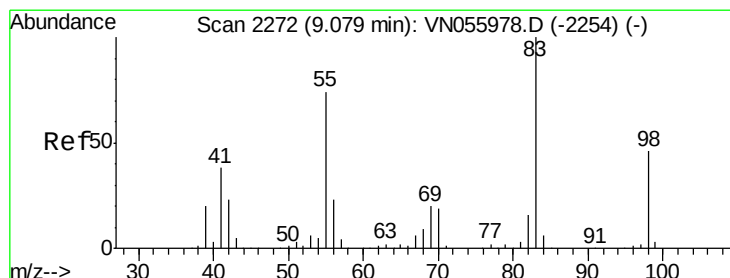
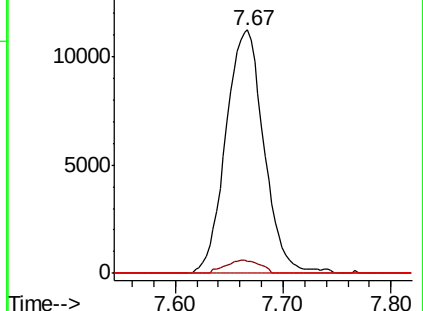
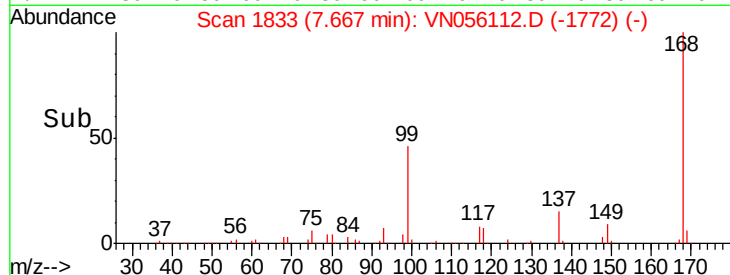
121 0.0 24.7 37.1#



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



#39

Methylcyclohexane

Concen: 0.366 ug/l

RT: 9.08 min Scan# 2273

Delta R.T. 0.00 min

Lab File: VN056112.D

Acq: 7 Jun 2019 21:00

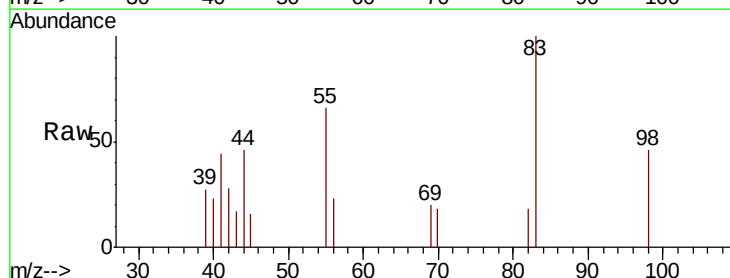
Tgt Ion: 83 Resp: 2019

Ion Ratio Lower Upper

83 100

55 65.7 59.3 88.9

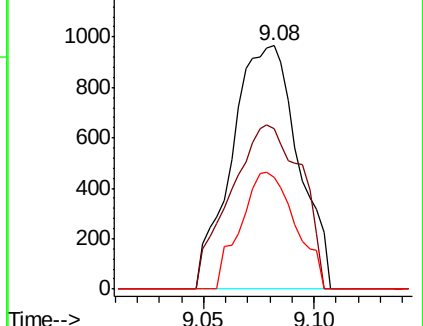
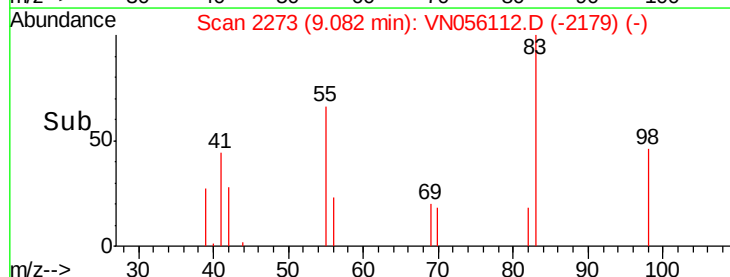
98 45.7 36.6 54.8

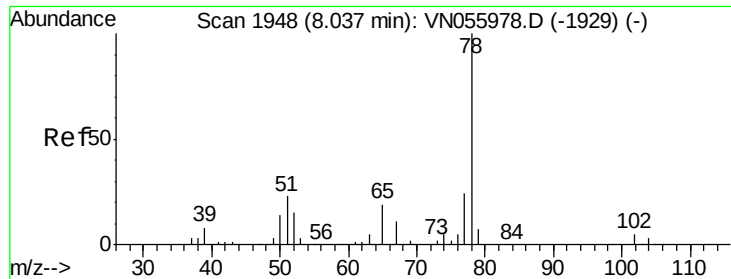


Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 98.00 (97.70 to 98.70): VN0





#40

Benzene

Concen: 0.757 ug/l

RT: 8.04 min Scan# 1949

Delta R.T. 0.00 min

Lab File: VN056112.D

Acq: 7 Jun 2019 21:00

Instrument :

MSVOA_N

ClientSampleId :

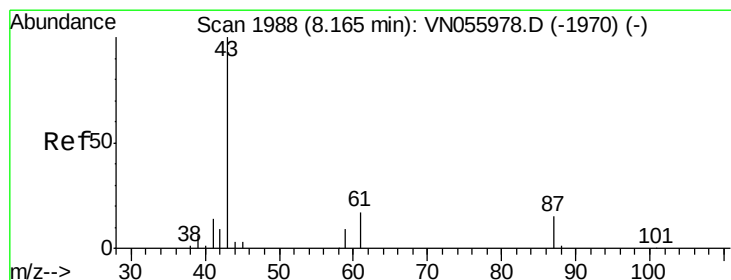
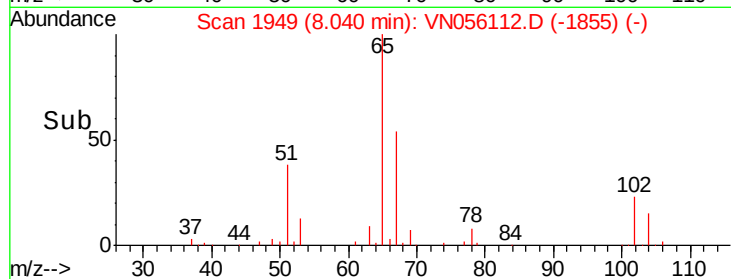
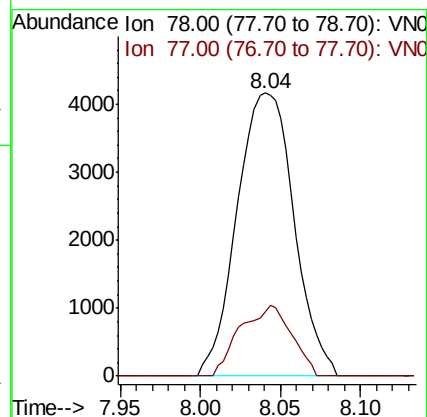
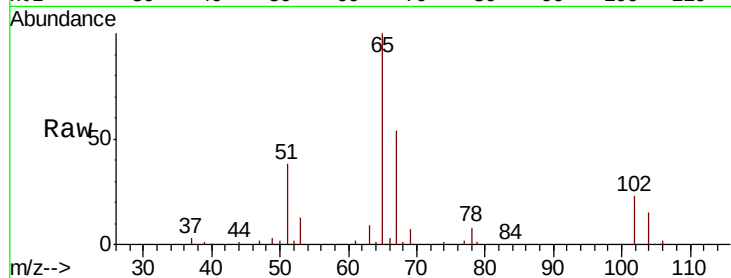
DUP-0530-190604DL

Tot Ion: 78 Resp: 10177

Ion Ratio Lower Upper

78 100

77 23.0 18.8 28.2



#43

Isopropyl Acetate

Concen: 0.286 ug/l

RT: 8.28 min Scan# 2025

Delta R.T. 0.12 min

Lab File: VN056112.D

Acq: 7 Jun 2019 21:00

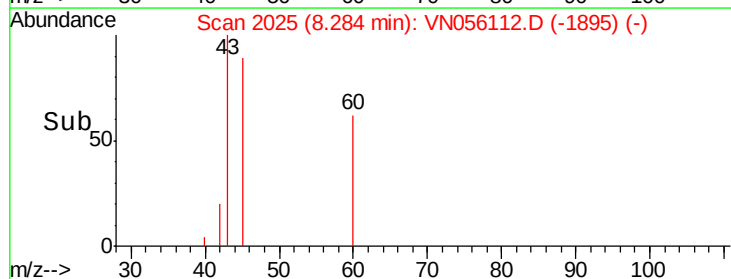
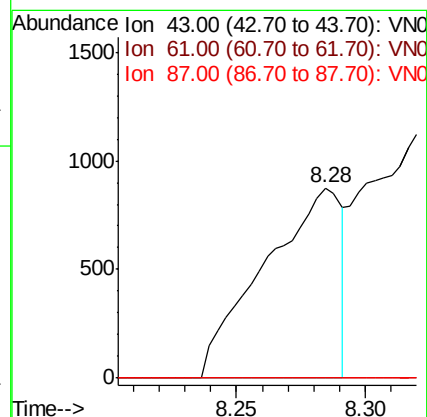
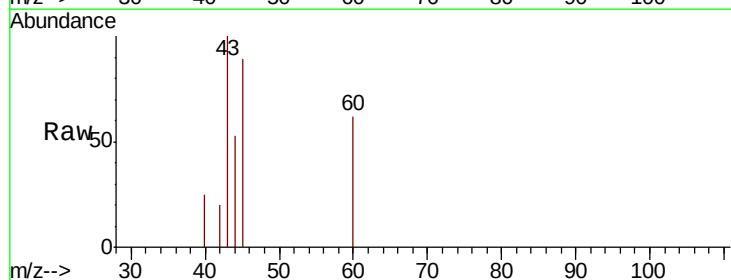
Tgt Ion: 43 Resp: 1827

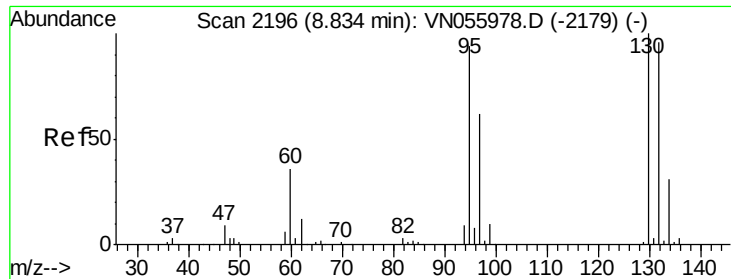
Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

87 0.0 11.4 17.2#

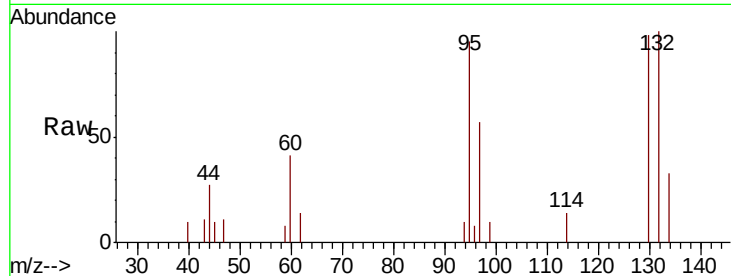




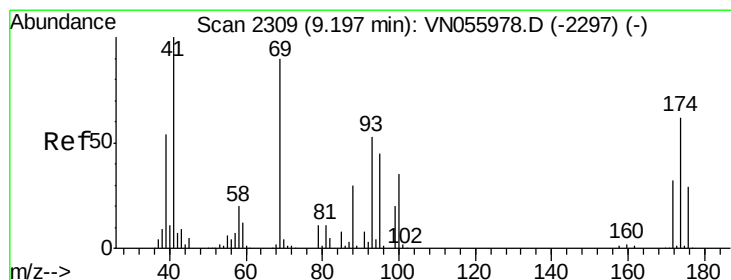
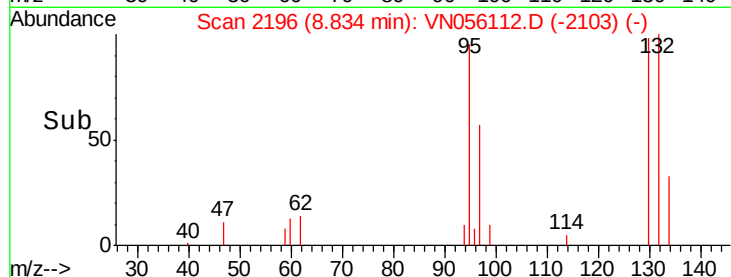
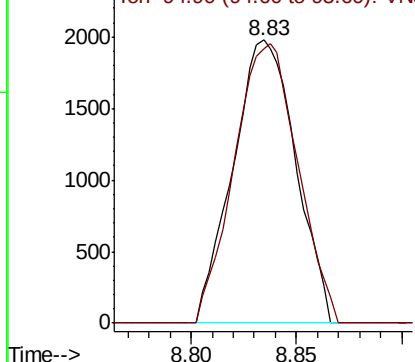
#44
 Trichloroethene
 Concen: 1.059 ug/l
 RT: 8.83 min Scan# 2196
 Delta R.T. 0.00 min
 Lab File: VN056112.D
 Acq: 7 Jun 2019 21:00

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP-0530-190604DL

Tot Ion:130 Resp: 4091
 Ion Ratio Lower Upper
 130 100
 95 97.1 0.0 188.0

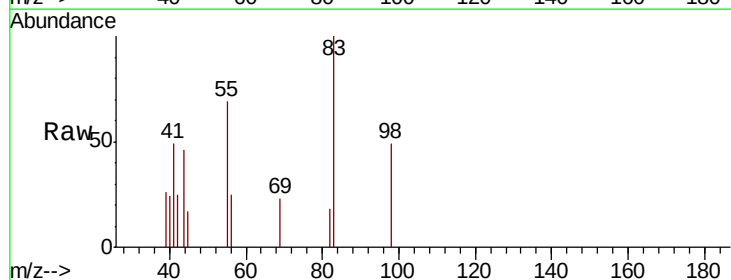


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VN

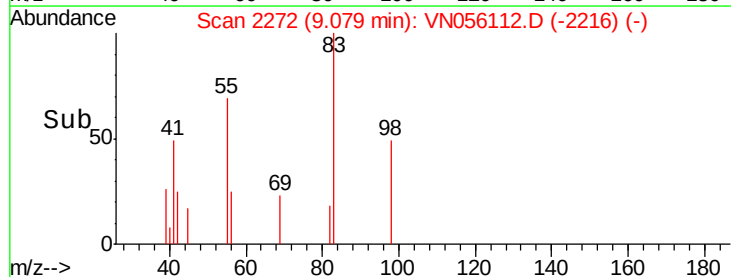
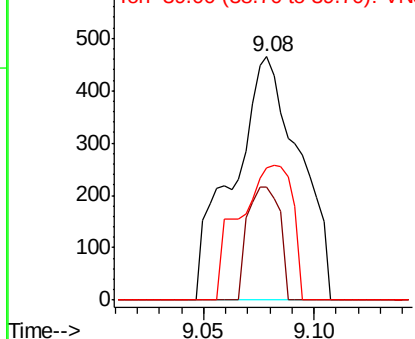


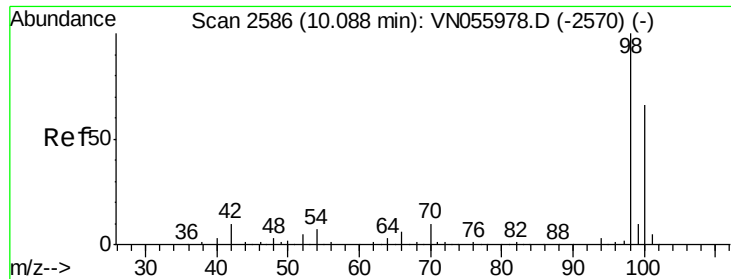
#48
 Methyl methacrylate
 Concen: 0.311 ug/l
 RT: 9.08 min Scan# 2272
 Delta R.T. -0.12 min
 Lab File: VN056112.D
 Acq: 7 Jun 2019 21:00

Tgt Ion: 41 Resp: 972
 Ion Ratio Lower Upper
 41 100
 69 22.6 71.0 106.6#
 39 44.3 44.2 66.2



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





#50

Toluene-d8

Concen: 53.522 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN056112.D

Acq: 7 Jun 2019 21:00

Instrument :

MSVOA_N

ClientSampleId :

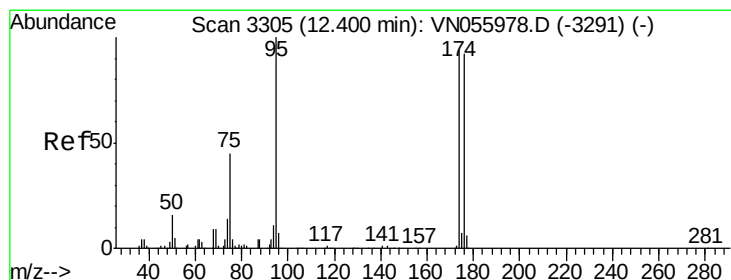
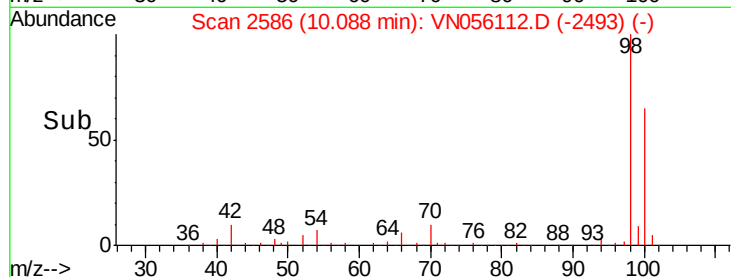
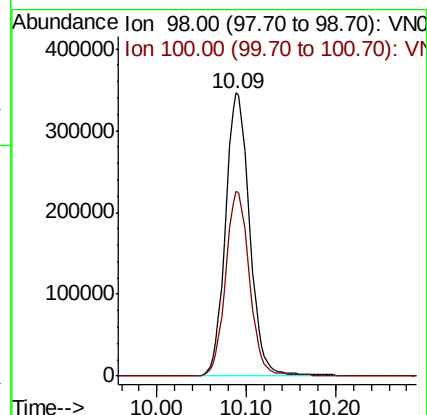
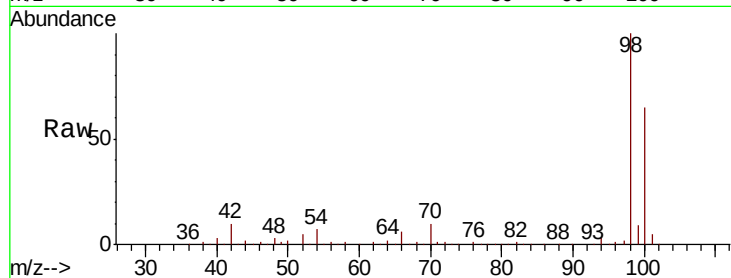
DUP-0530-190604DL

Tot Ion: 98 Resp: 650368

Ion Ratio Lower Upper

98 100

100 64.7 51.9 77.9



#62

4-Bromofluorobenzene

Concen: 50.135 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056112.D

Acq: 7 Jun 2019 21:00

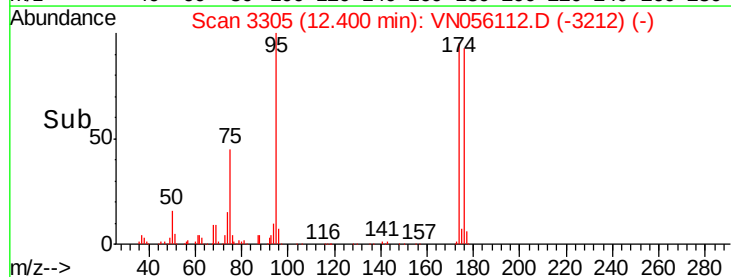
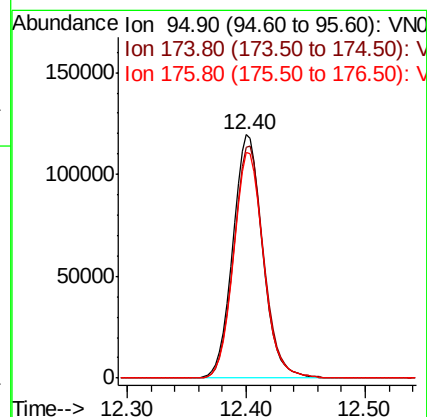
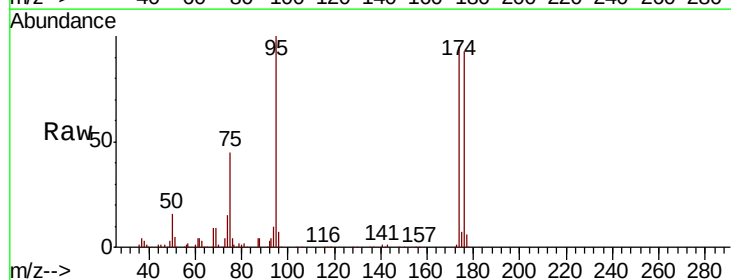
Tgt Ion: 95 Resp: 207180

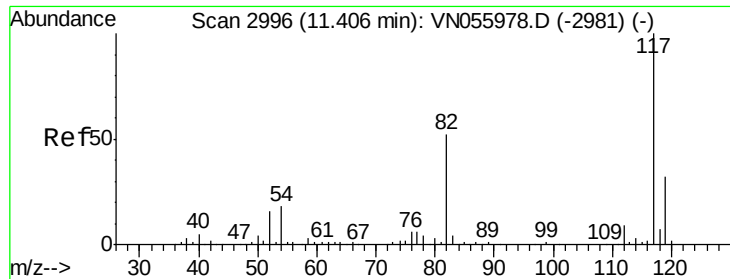
Ion Ratio Lower Upper

95 100

174 96.2 0.0 191.0

176 92.9 0.0 185.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN056112.D

Acq: 7 Jun 2019 21:00

Instrument :

MSVOA_N

ClientSampleId :

DUP-0530-190604DL

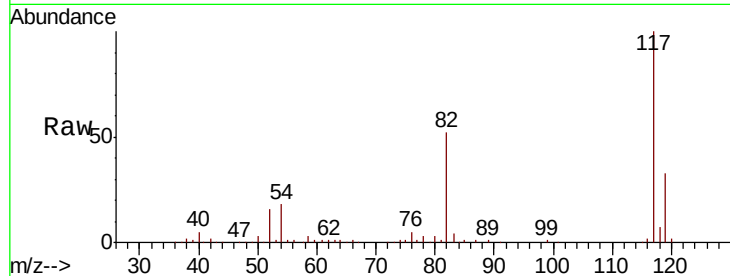
Tot Ion:117 Resp: 485003

Ion Ratio Lower Upper

117 100

82 52.0 41.8 62.8

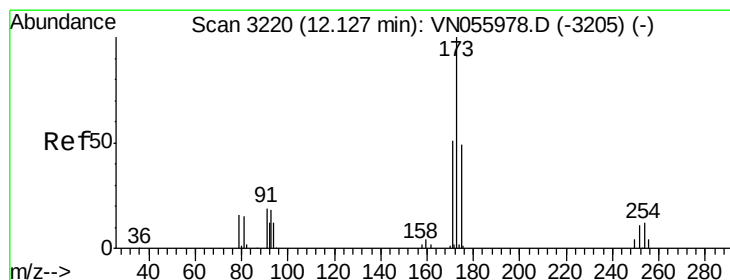
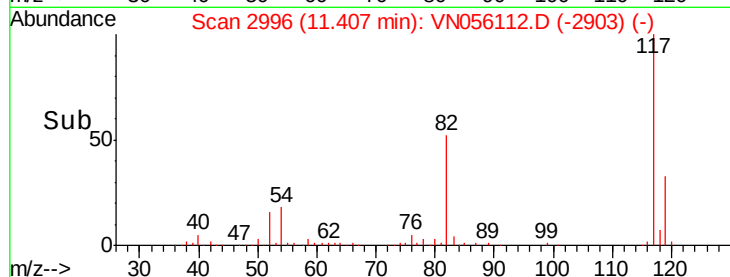
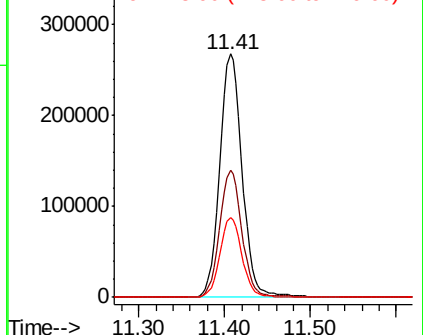
119 32.5 25.4 38.0



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



#71

Bromoform

Concen: 3.235 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN056112.D

Acq: 7 Jun 2019 21:00

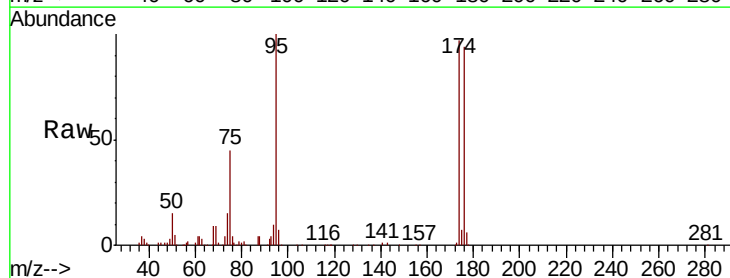
Tgt Ion:173 Resp: 1458

Ion Ratio Lower Upper

173 100

175 821.3 24.3 72.8#

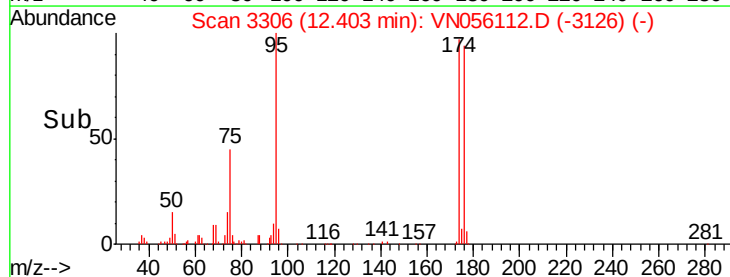
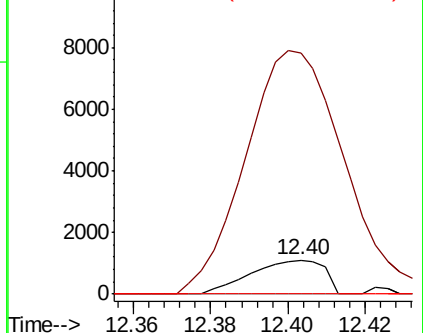
254 0.0 0.0 0.0

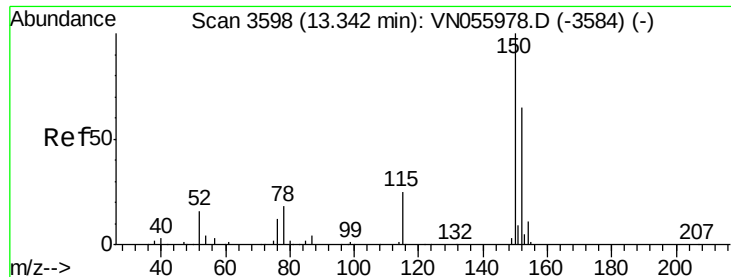


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V

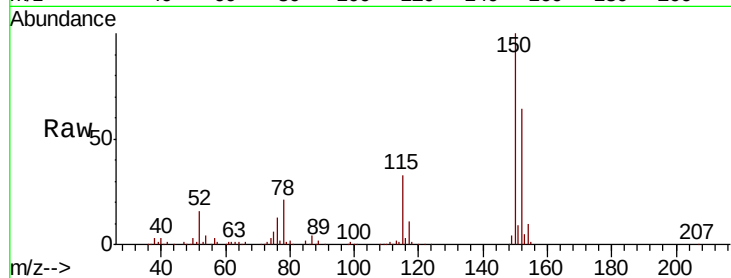




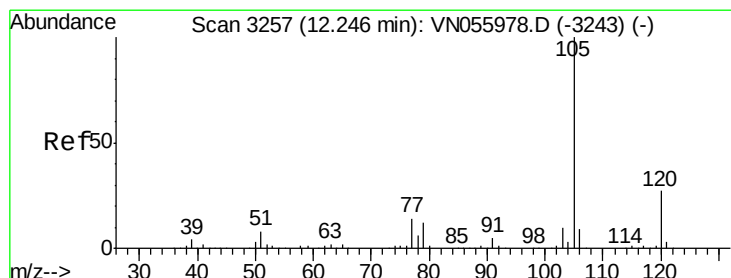
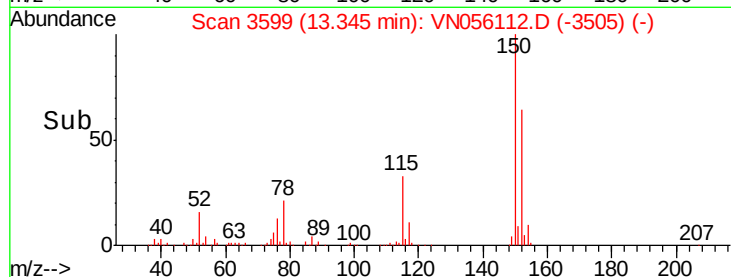
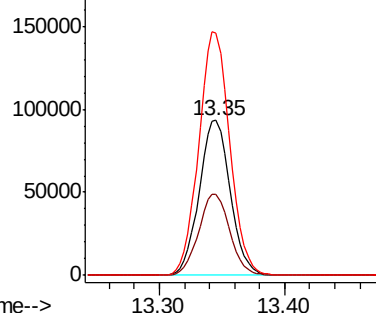
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.35 min Scan# 3599
 Delta R.T. 0.00 min
 Lab File: VN056112.D
 Acq: 7 Jun 2019 21:00

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP-0530-190604DL

Tot Ion:152 Resp: 160068
 Ion Ratio Lower Upper
 152 100
 115 52.5 27.0 81.0
 150 157.0 0.0 343.2

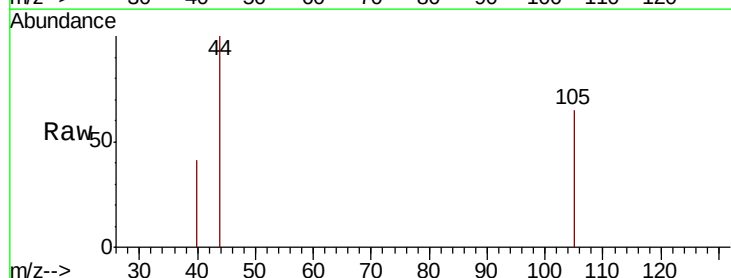


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

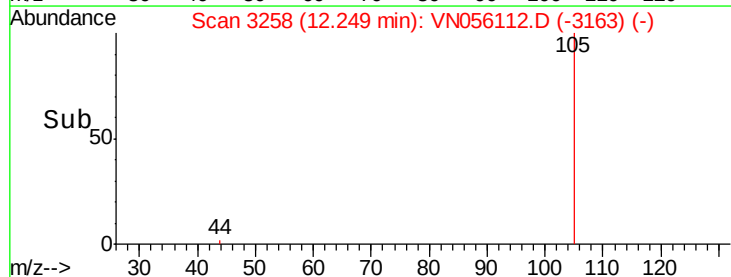
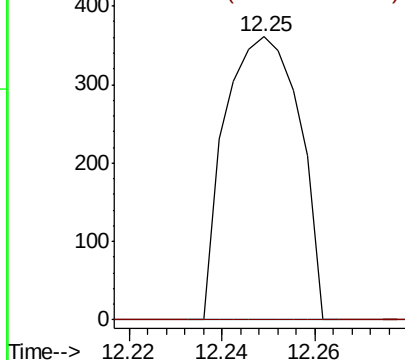


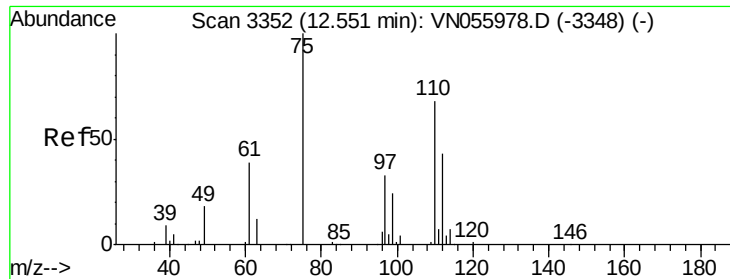
#73
 Isopropylbenzene
 Concen: Below Cal
 RT: 12.25 min Scan# 3258
 Delta R.T. 0.00 min
 Lab File: VN056112.D
 Acq: 7 Jun 2019 21:00

Tgt Ion:105 Resp: 402
 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





#76

1,2,3-Trichloropropane

Concen: 32.007 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056112.D

Acq: 7 Jun 2019 21:00

Instrument :

MSVOA_N

ClientSampleId :

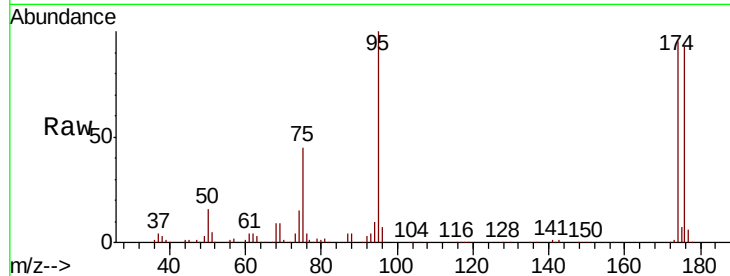
DUP-0530-190604DL

Tot Ion: 75 Resp: 94272

Ion Ratio Lower Upper

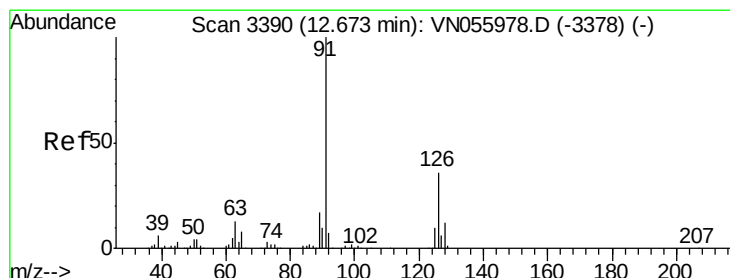
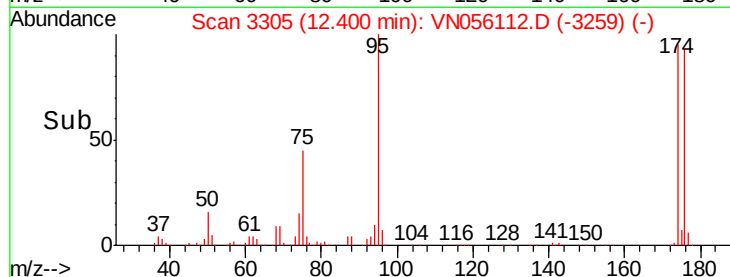
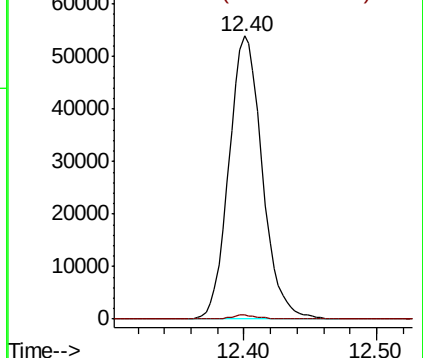
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.40 min Scan# 3305

Delta R.T. -0.27 min

Lab File: VN056112.D

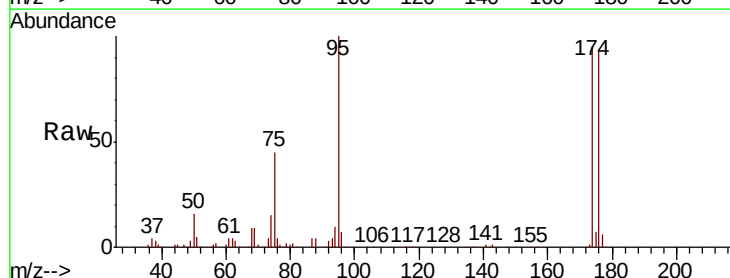
Acq: 7 Jun 2019 21:00

Tgt Ion: 91 Resp: 526

Ion Ratio Lower Upper

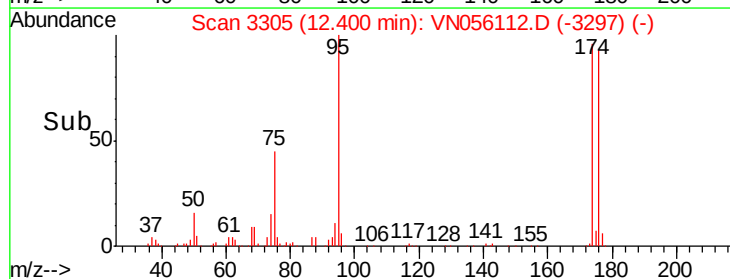
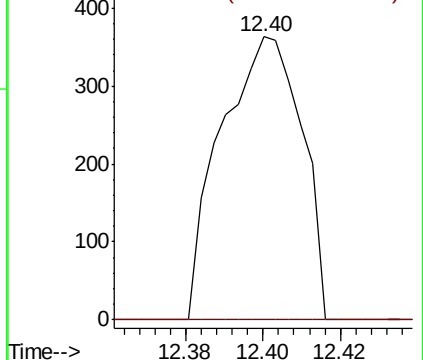
91 100

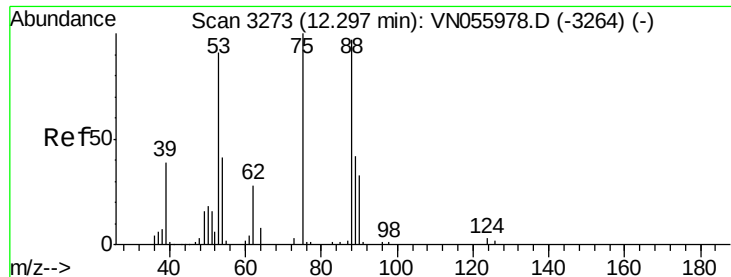
126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 106.591 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056112.D

Acq: 7 Jun 2019 21:00

Instrument :

MSVOA_N

ClientSampleId :

DUP-0530-190604DL

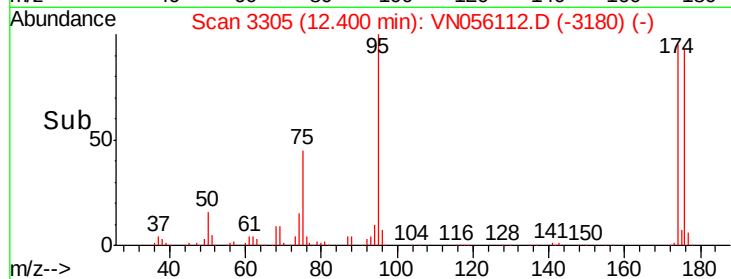
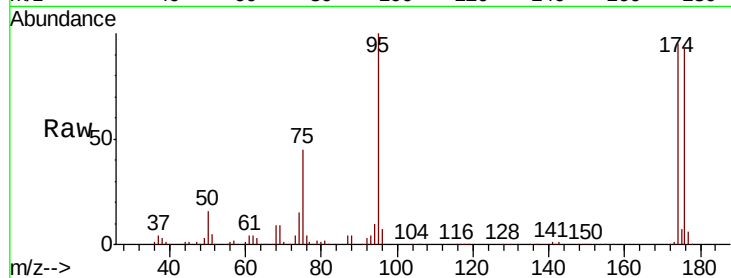
Tot Ion: 75 Resp: 94272

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): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

