

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060719\
 Data File : VN056072.D
 Acq On : 7 Jun 2019 3:04
 Operator : JC/SP
 Sample : K3203-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP-0530-190604

Quant Time: Jun 07 07:10:29 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	340353	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	508235	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	478126	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	150771	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	172443	51.03	ug/l	0.00
Spiked Amount			Recovery	=	102.06%	
35) Dibromofluoromethane	7.59	113	152816	49.01	ug/l	0.00
Spiked Amount			Recovery	=	98.02%	
50) Toluene-d8	10.09	98	630511	52.55	ug/l	0.00
Spiked Amount			Recovery	=	105.10%	
62) 4-Bromofluorobenzene	12.40	95	196474	48.15	ug/l	0.00
Spiked Amount			Recovery	=	96.30%	

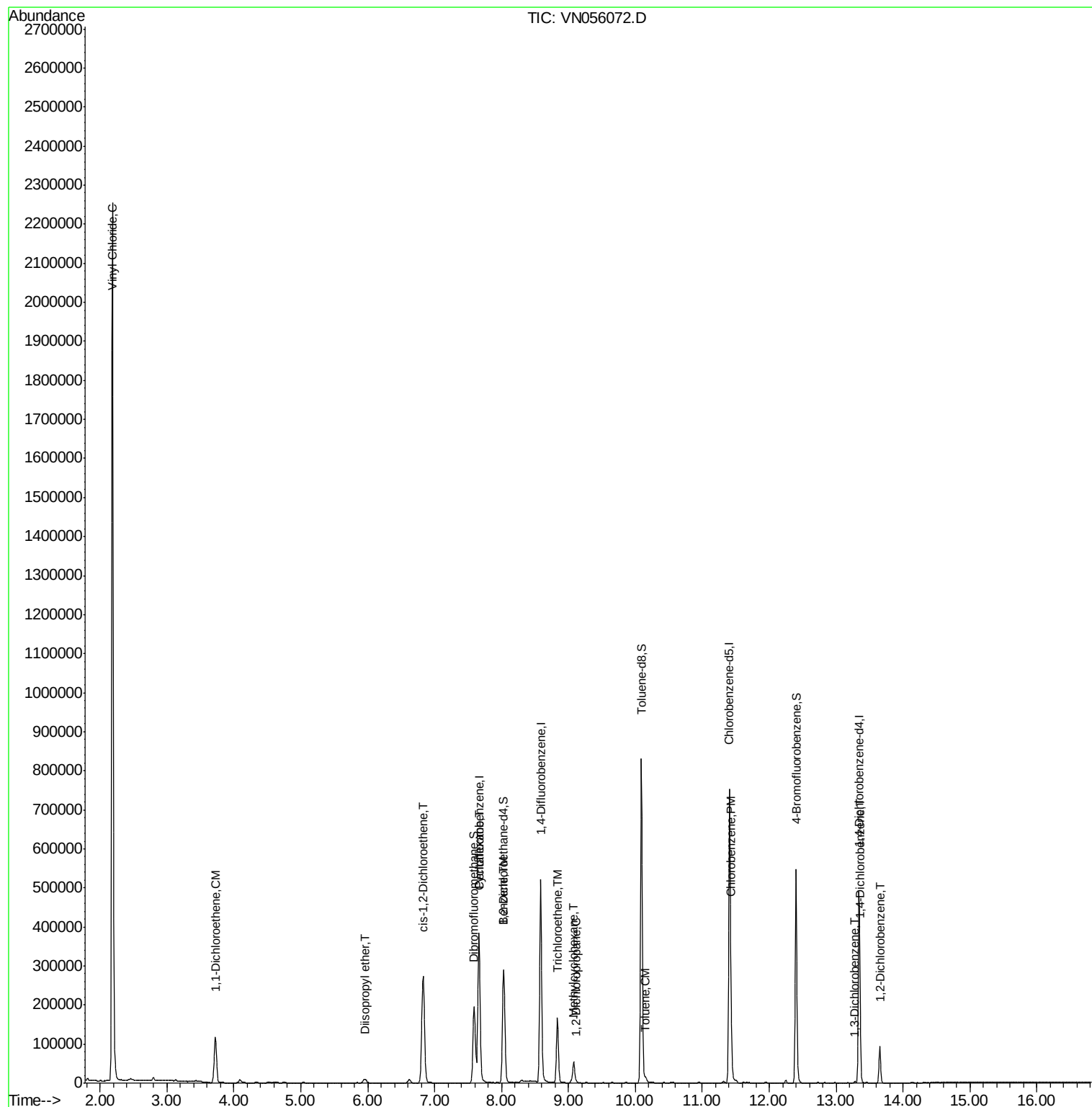
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	2.18	62	2148263	580.479	ug/l	100
12) 1,1-Dichloroethene	3.72	96	67035	23.462	ug/l	97
22) Diisopropyl ether	5.96	45	14481	1.553	ug/l	91
27) cis-1,2-Dichloroethene	6.83	96	196732	54.669	ug/l	90
31) Cyclohexane	7.65	56	24139	4.502	ug/l #	78
39) Methylcyclohexane	9.08	83	25055	4.602	ug/l	98
40) Benzene	8.04	78	127125	9.578	ug/l	98
44) Trichloroethene	8.83	130	70449	18.471	ug/l	97
45) 1,2-Dichloropropane	9.12	63	1975	0.581	ug/l	95
52) Toluene	10.15	92	3425	0.415	ug/l	100
65) Chlorobenzene	11.43	112	65457	6.879	ug/l	99
83) tert-Butylbenzene	12.99	119	59	Below Cal	#	28
87) 1,3-Dichlorobenzene	13.28	146	2692	0.539	ug/l	94
88) 1,4-Dichlorobenzene	13.36	146	19359	4.028	ug/l	94
91) 1,2-Dichlorobenzene	13.65	146	46375	9.194	ug/l	98

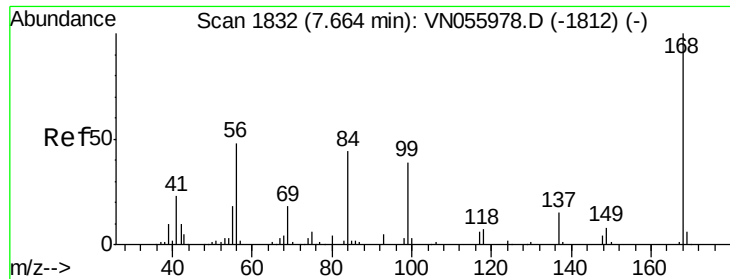
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN056072.D

Acq: 7 Jun 2019 3:04

Instrument :

MSVOA_N

ClientSampleId :

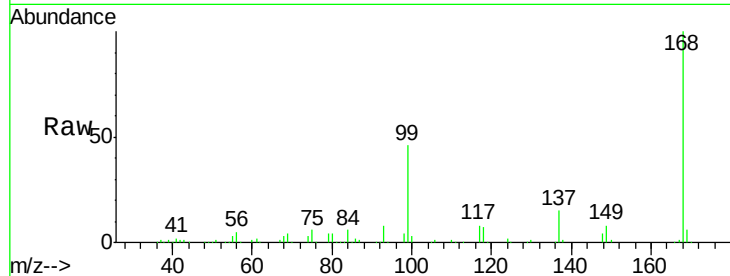
DUP-0530-190604

Tot Ion:168 Resp: 340353

Ion Ratio Lower Upper

168 100

99 45.8 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

150000

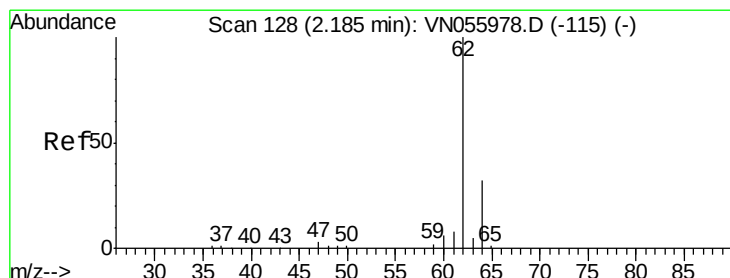
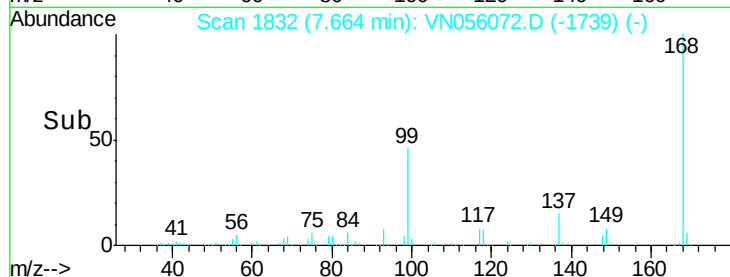
100000

50000

0

7.60 7.70 7.80

Time-->



#4

Vinyl Chloride

Concen: 580.479 ug/l

RT: 2.18 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN056072.D

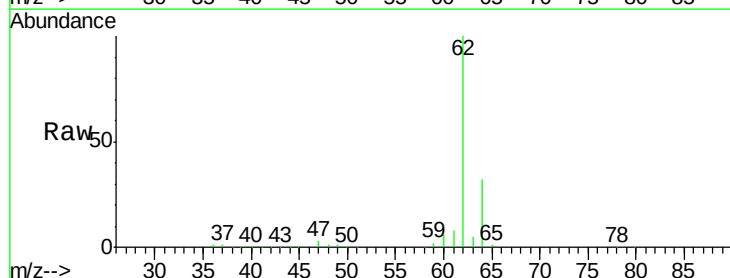
Acq: 7 Jun 2019 3:04

Tgt Ion: 62 Resp: 2148263

Ion Ratio Lower Upper

62 100

64 32.1 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

1500000

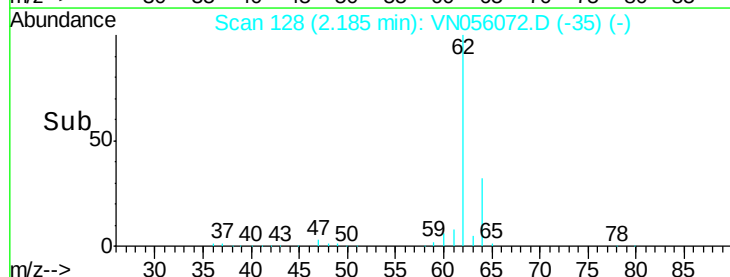
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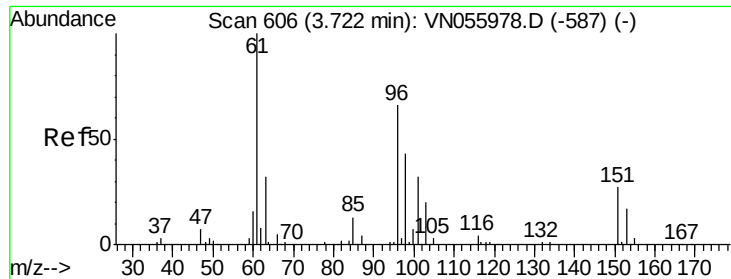
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0

2.10 2.20 2.30

Time-->

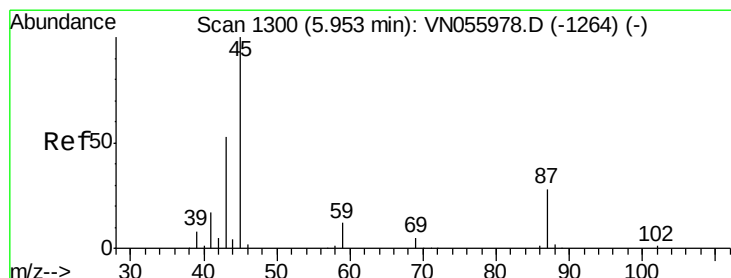
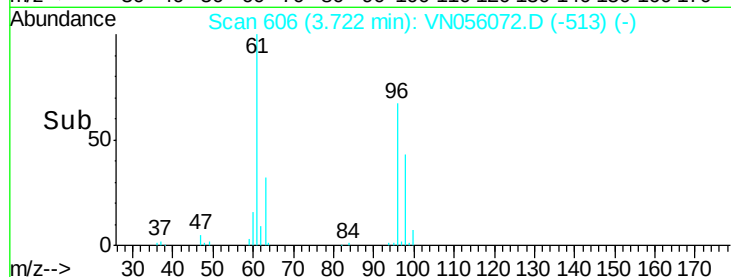
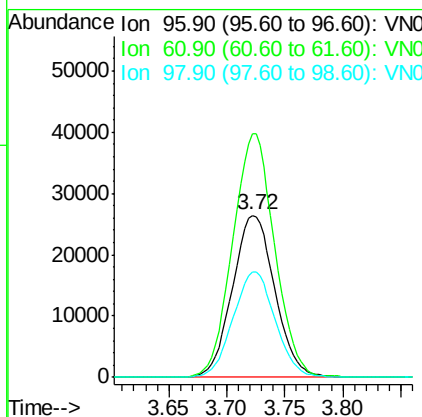
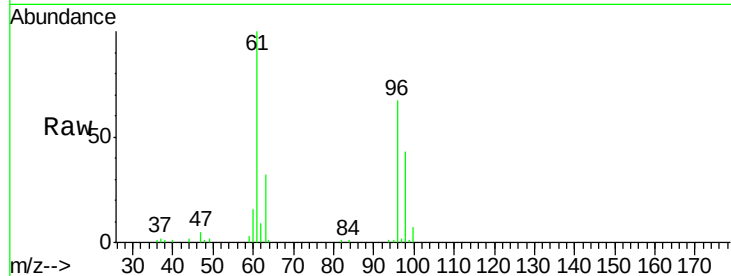




#12
 1,1-Dichloroethene
 Concen: 23.462 ug/l
 RT: 3.72 min Scan# 606
 Delta R.T. 0.00 min
 Lab File: VN056072.D
 Acq: 7 Jun 2019 3:04

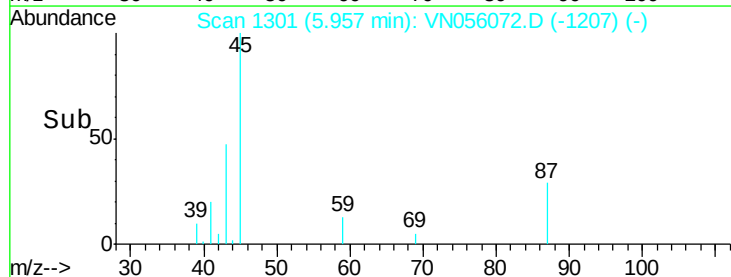
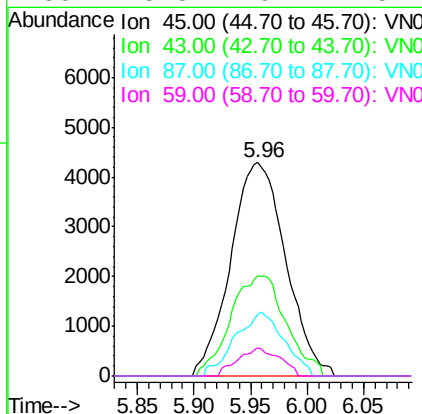
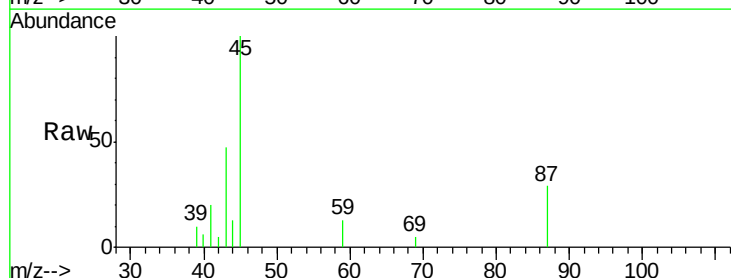
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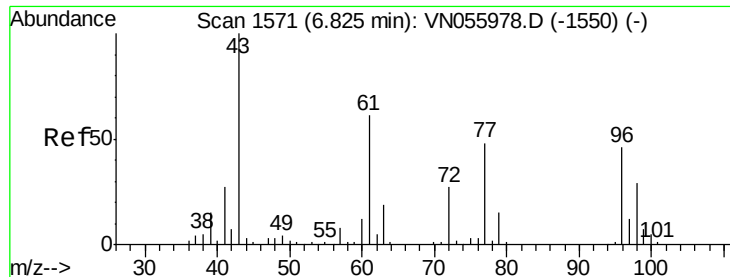
Tot Ion: 96 Resp: 67035
 Ion Ratio Lower Upper
 96 100
 61 149.4 123.2 184.8
 98 65.2 50.4 75.6



#22
 Diisopropyl ether
 Concen: 1.553 ug/l
 RT: 5.96 min Scan# 1301
 Delta R.T. 0.00 min
 Lab File: VN056072.D
 Acq: 7 Jun 2019 3:04

Tgt Ion: 45 Resp: 14481
 Ion Ratio Lower Upper
 45 100
 43 46.6 45.0 67.6
 87 28.9 22.2 33.4
 59 13.3 9.1 13.7





#27

cis-1,2-Dichloroethene

Concen: 54.669 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN056072.D

Acq: 7 Jun 2019 3:04

Instrument :

MSVOA_N

ClientSampleId :

DUP-0530-190604

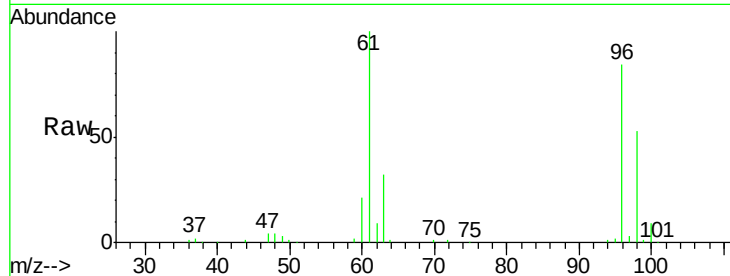
Tot Ion: 96 Resp: 196732

Ion Ratio Lower Upper

96 100

61 119.7 0.0 275.8

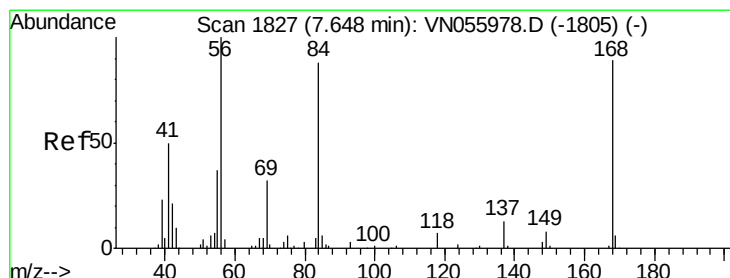
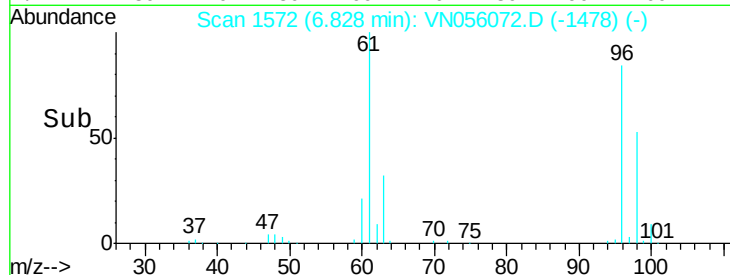
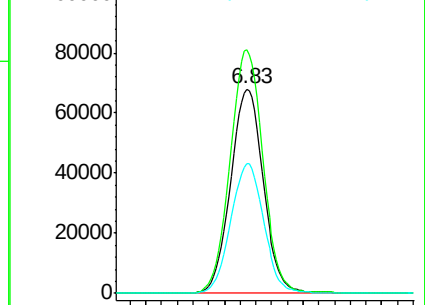
98 64.0 0.0 128.4



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: 4.502 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN056072.D

Acq: 7 Jun 2019 3:04

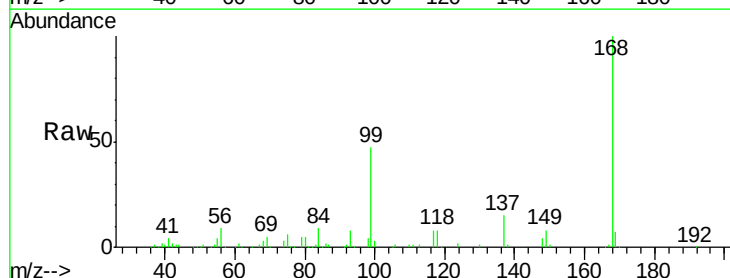
Tgt Ion: 56 Resp: 24139

Ion Ratio Lower Upper

56 100

69 56.4 25.6 38.4#

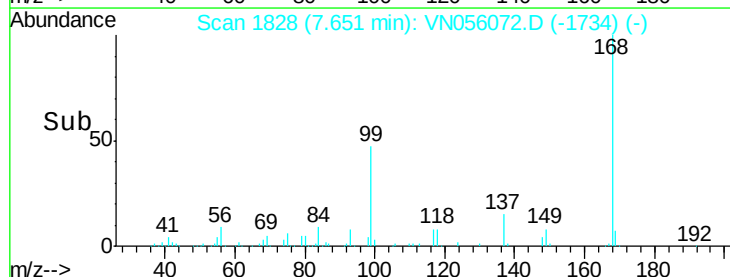
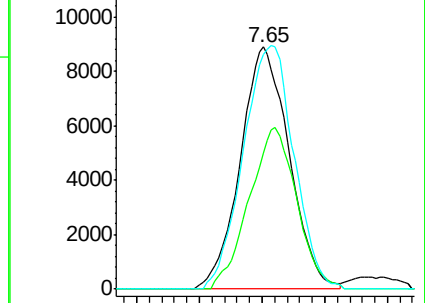
84 96.9 67.4 101.0

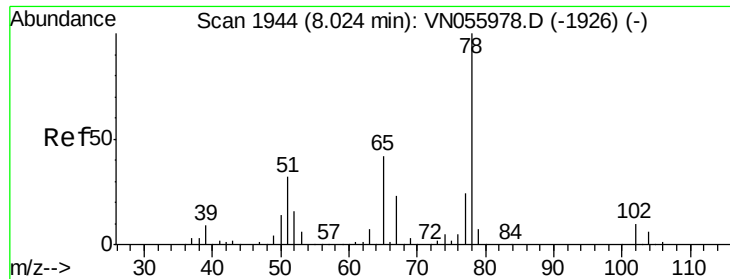


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

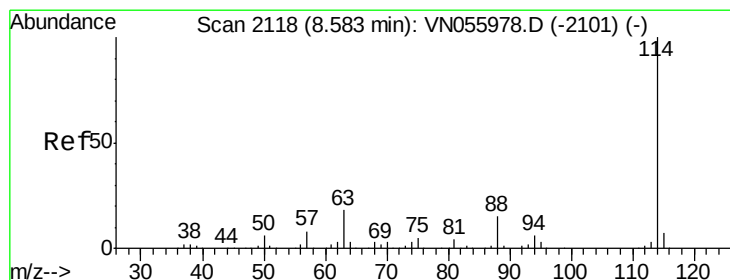
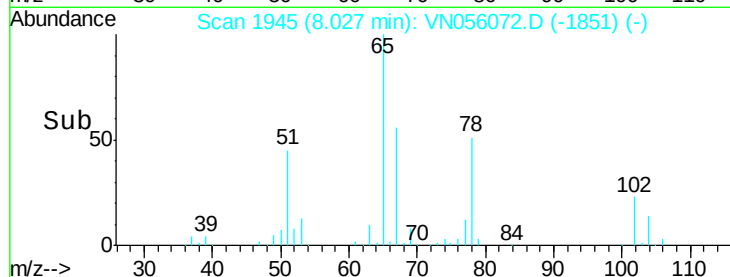
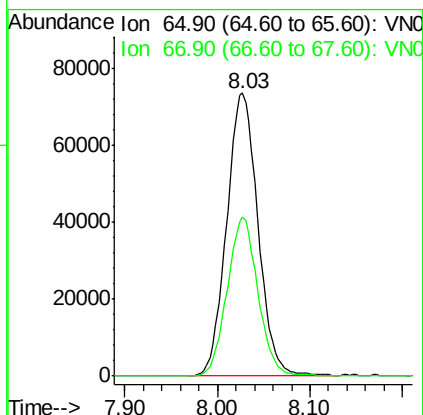
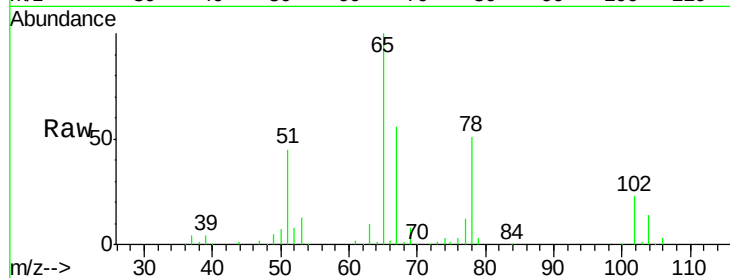




#33
 1,2-Dichloroethane-d4
 Concen: 51.027 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056072.D
 Acq: 7 Jun 2019 3:04

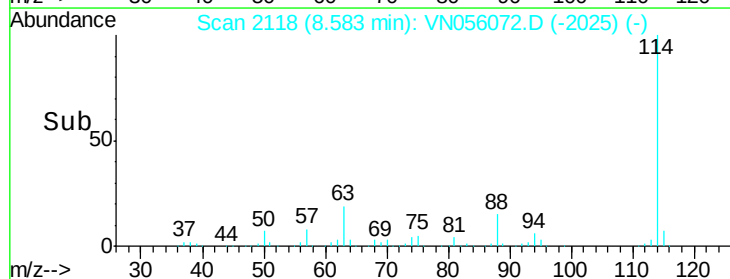
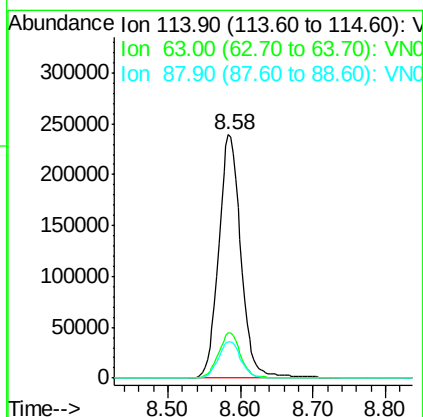
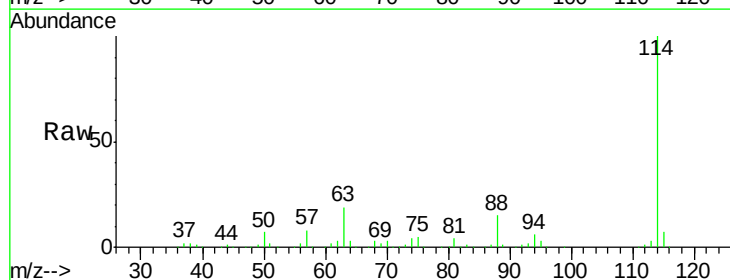
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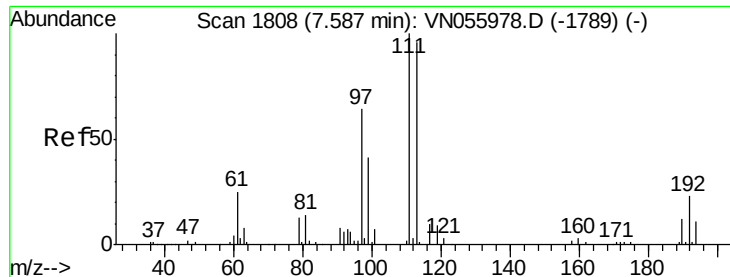
Tot Ion: 65 Resp: 172443
 Ion Ratio Lower Upper
 65 100
 67 55.2 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN056072.D
 Acq: 7 Jun 2019 3:04

Tgt Ion: 114 Resp: 508235
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 39.2
 88 15.1 0.0 31.0

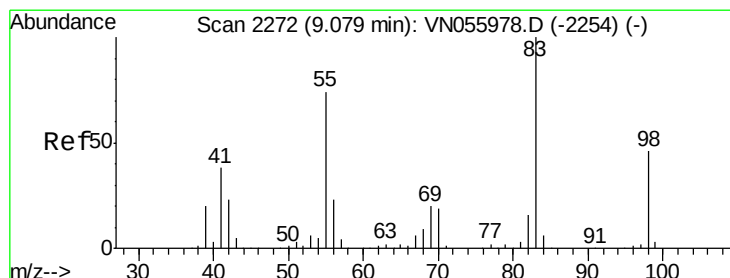
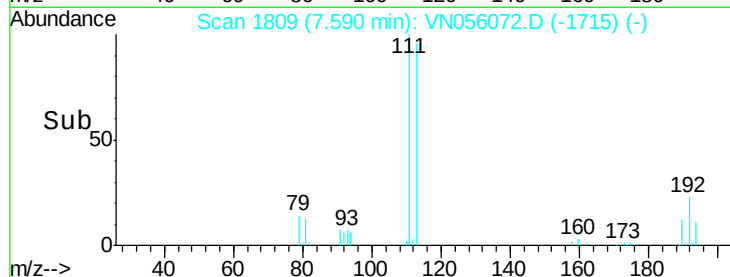
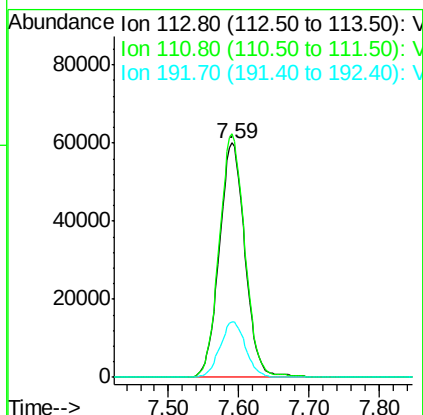
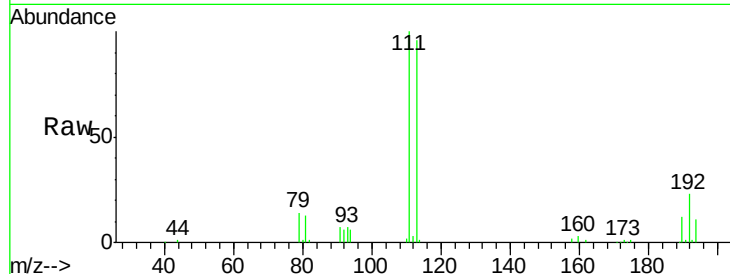




#35
 Dibromofluoromethane
 Concen: 49.008 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056072.D
 Acq: 7 Jun 2019 3:04

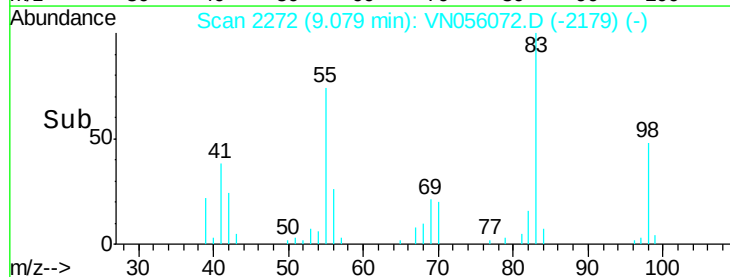
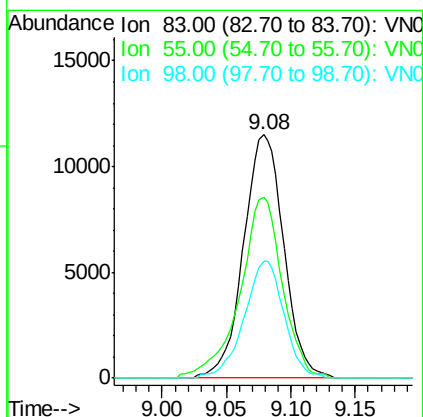
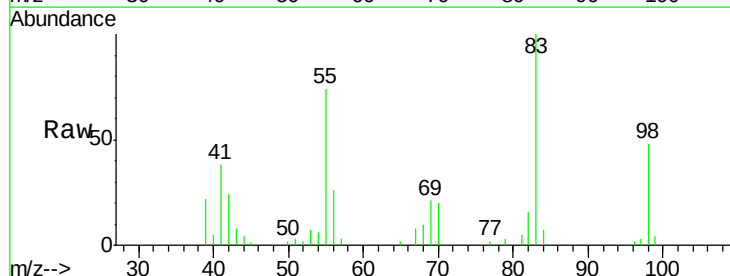
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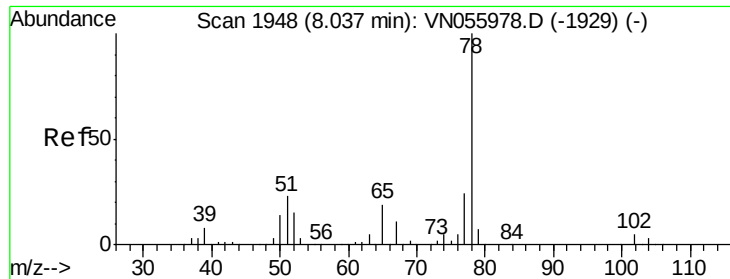
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.2	81.9	122.9
192	23.6	19.5	29.3



#39
 Methylcyclohexane
 Concen: 4.602 ug/l
 RT: 9.08 min Scan# 2272
 Delta R.T. 0.00 min
 Lab File: VN056072.D
 Acq: 7 Jun 2019 3:04

Tgt Ion	Ratio	Lower	Upper
83	100		
55	74.5	59.3	88.9
98	48.0	36.6	54.8





#40

Benzene

Concen: 9.578 ug/l

RT: 8.04 min Scan# 1949

Delta R.T. 0.00 min

Lab File: VN056072.D

Acq: 7 Jun 2019 3:04

Instrument :

MSVOA_N

ClientSampleId :

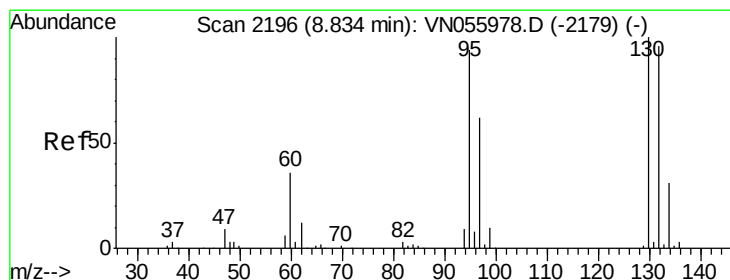
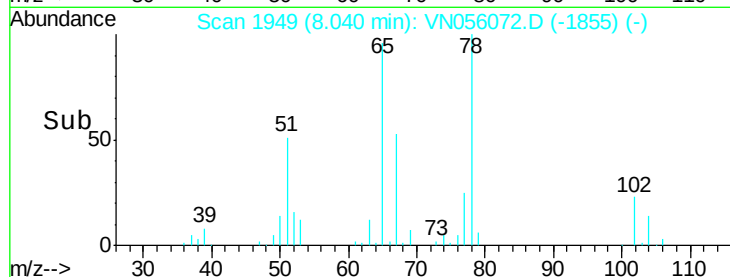
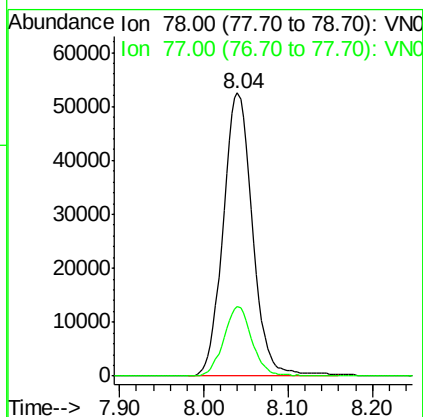
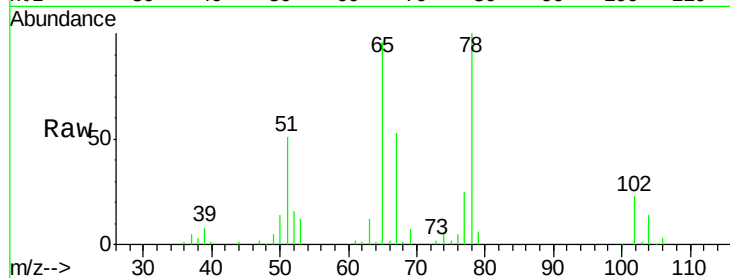
DUP-0530-190604

Tot Ion: 78 Resp: 127125

Ion Ratio Lower Upper

78 100

77 24.6 18.8 28.2



#44

Trichloroethene

Concen: 18.471 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN056072.D

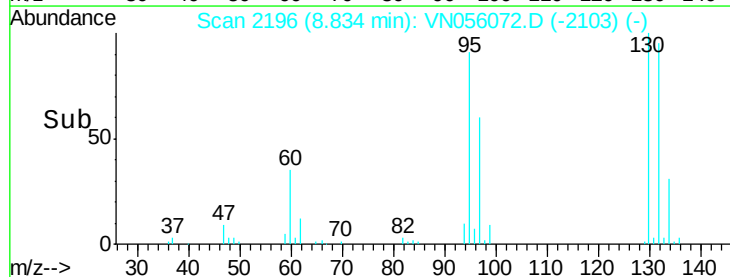
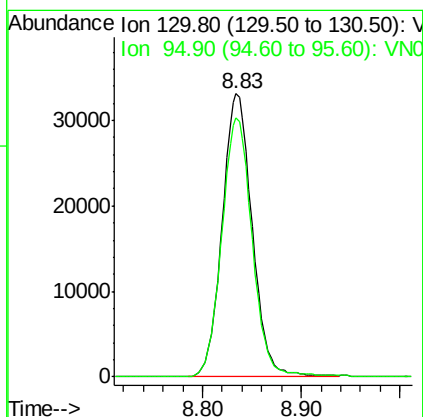
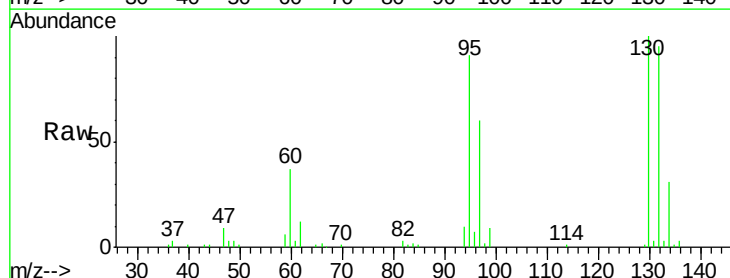
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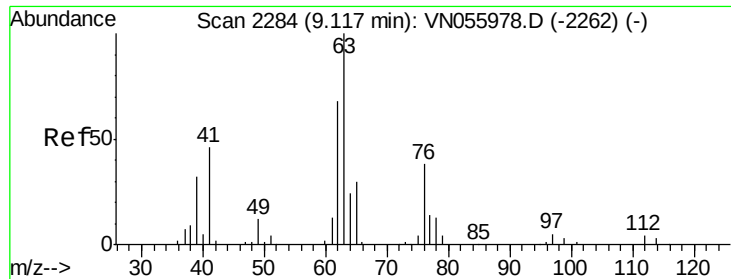
Tgt Ion: 130 Resp: 70449

Ion Ratio Lower Upper

130 100

95 91.5 0.0 188.0

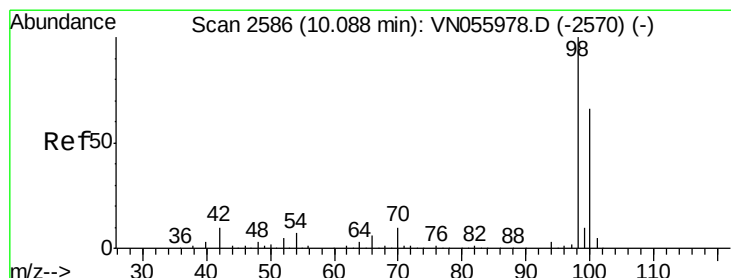
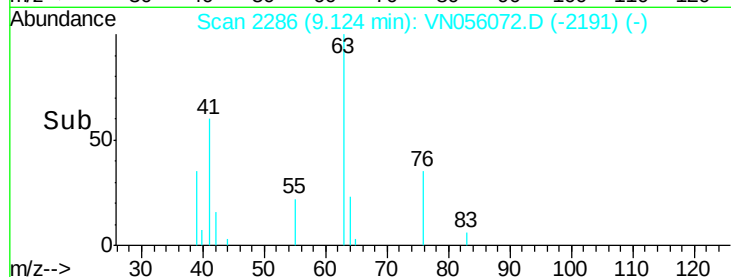
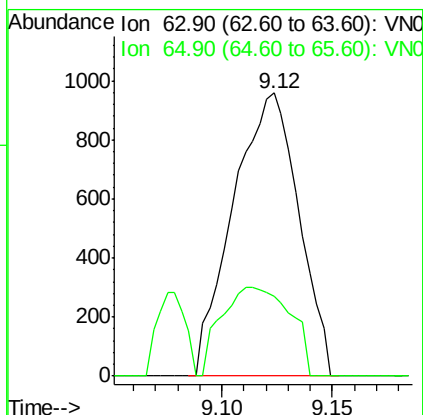
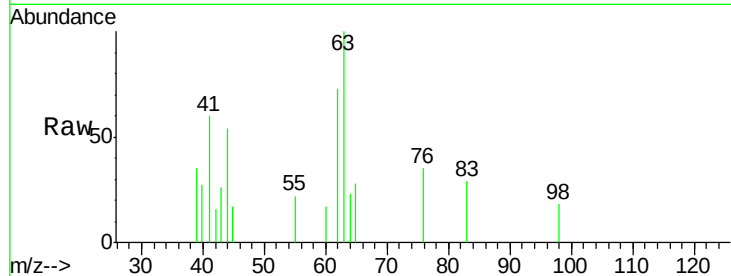




#45
 1,2-Dichloropropane
 Concen: 0.581 ug/l
 RT: 9.12 min Scan# 2286
 Delta R.T. 0.01 min
 Lab File: VN056072.D
 Acq: 7 Jun 2019 3:04

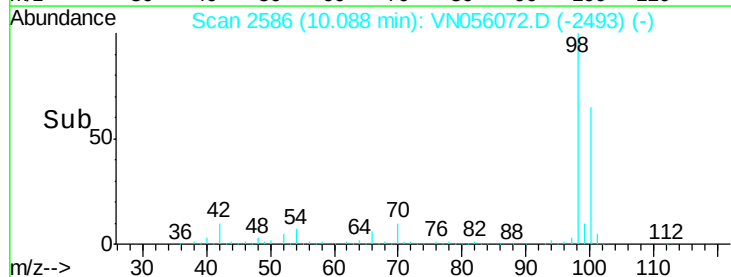
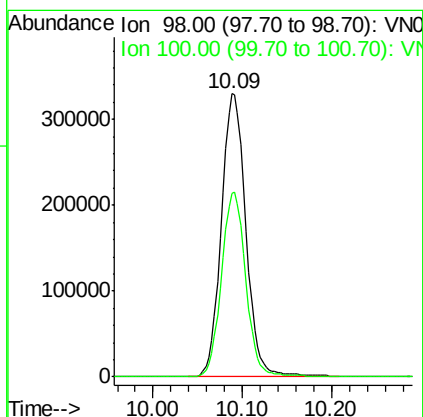
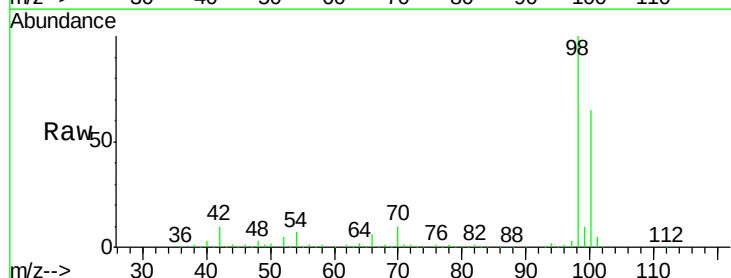
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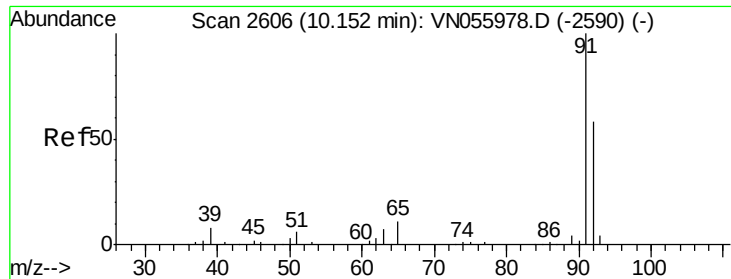
Tot Ion: 63 Resp: 1975
 Ion Ratio Lower Upper
 63 100
 65 28.1 24.6 36.8



#50
 Toluene-d8
 Concen: 52.548 ug/l
 RT: 10.09 min Scan# 2586
 Delta R.T. 0.00 min
 Lab File: VN056072.D
 Acq: 7 Jun 2019 3:04

Tgt Ion: 98 Resp: 630511
 Ion Ratio Lower Upper
 98 100
 100 65.0 51.9 77.9





#52

Toluene

Concen: 0.415 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VN056072.D

Acq: 7 Jun 2019 3:04

Instrument :

MSVOA_N

ClientSampleId :

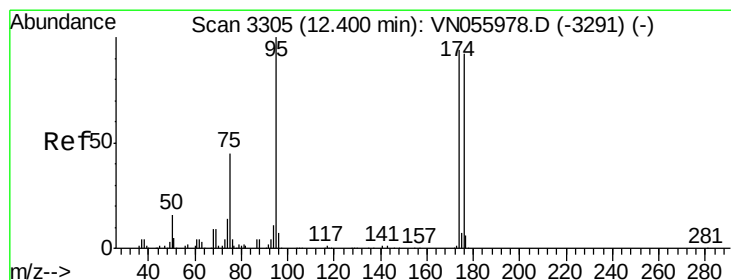
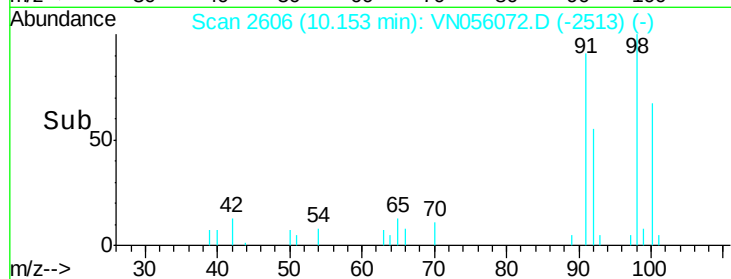
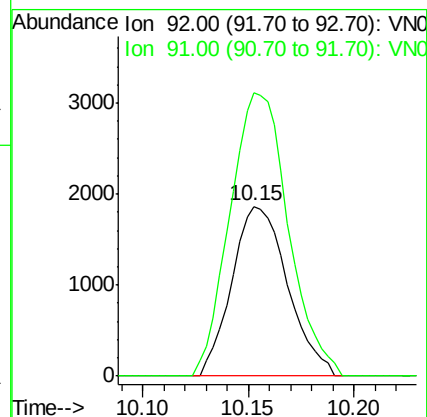
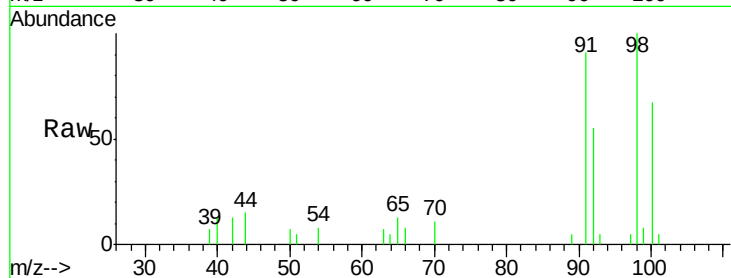
DUP-0530-190604

Tot Ion: 92 Resp: 3425

Ion Ratio Lower Upper

92 100

91 174.8 139.4 209.2



#62

4-Bromofluorobenzene

Concen: 48.149 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056072.D

Acq: 7 Jun 2019 3:04

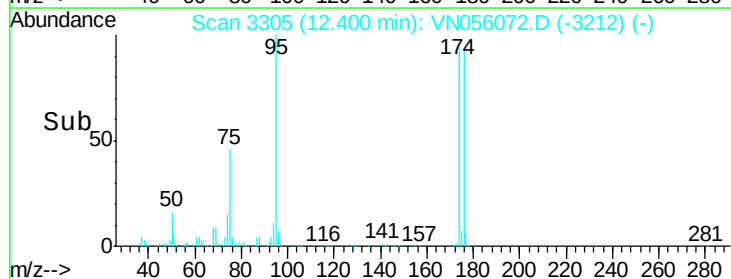
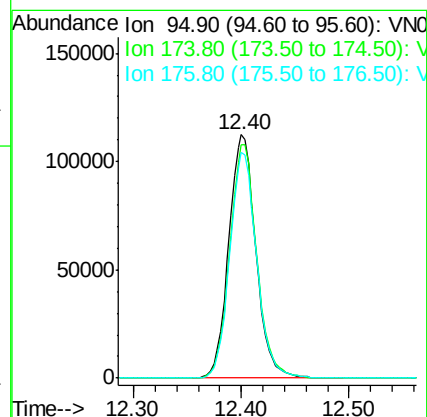
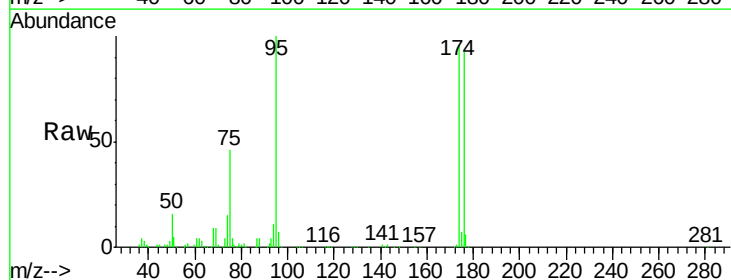
Tgt Ion: 95 Resp: 196474

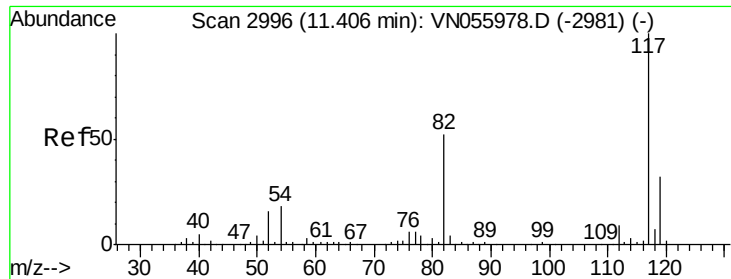
Ion Ratio Lower Upper

95 100

174 95.8 0.0 191.0

176 92.1 0.0 185.2

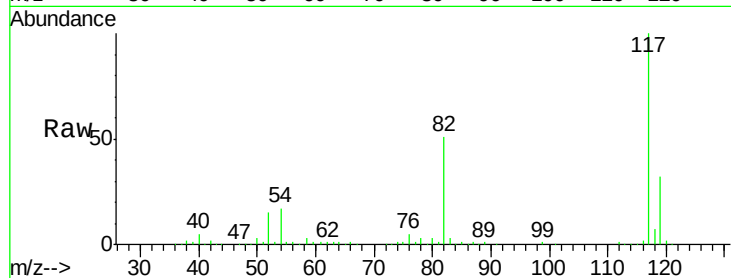




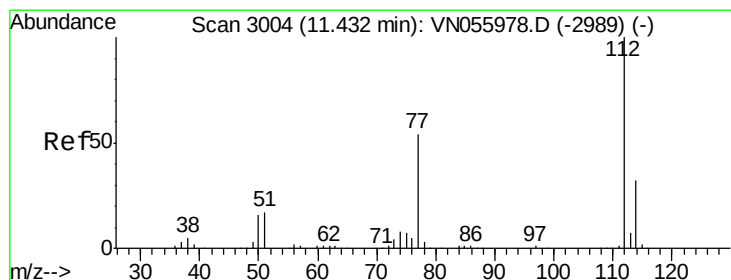
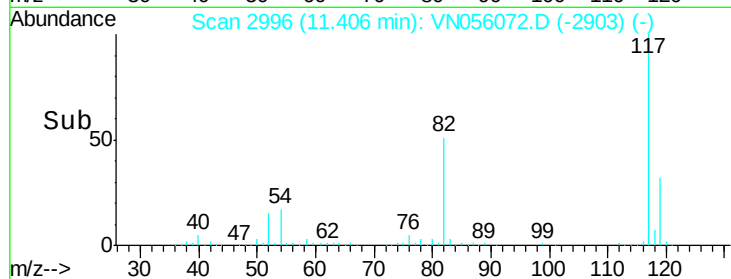
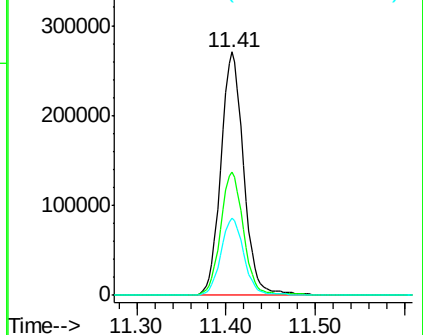
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056072.D
Acq: 7 Jun 2019 3:04

Instrument :
MSVOA_N
ClientSampleId :
DUP-0530-190604

Tot Ion:117 Resp: 478126
Ion Ratio Lower Upper
117 100
82 50.9 41.8 62.8
119 31.9 25.4 38.0

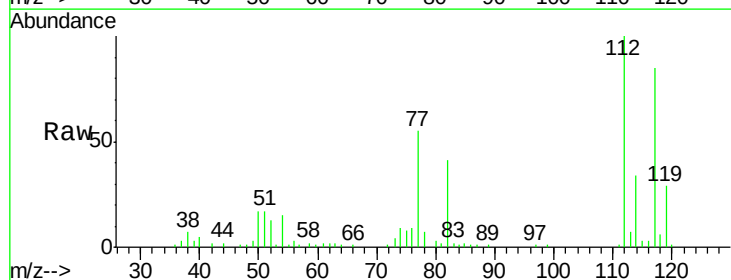


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

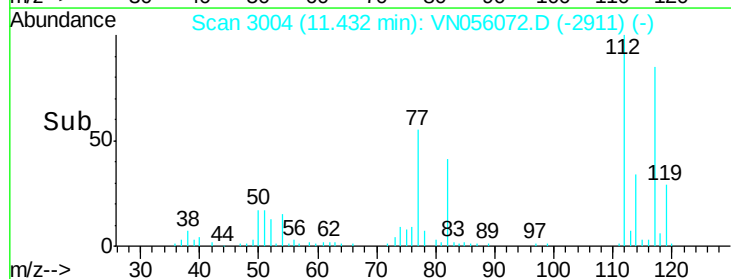
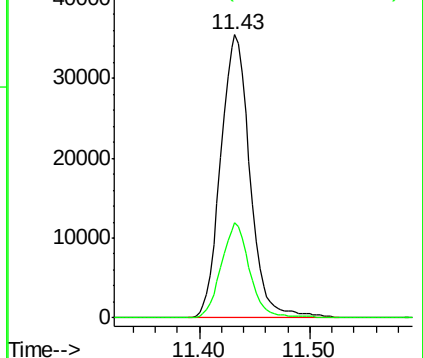


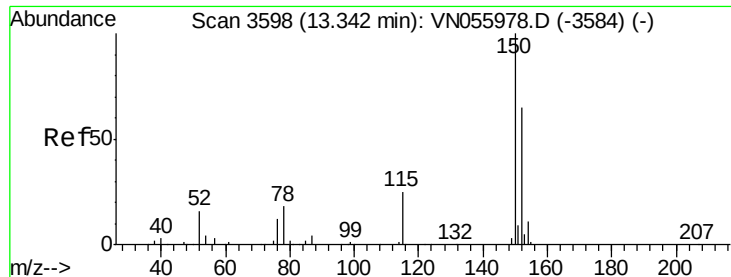
#65
Chlorobenzene
Concen: 6.879 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN056072.D
Acq: 7 Jun 2019 3:04

Tgt Ion:112 Resp: 65457
Ion Ratio Lower Upper
112 100
114 33.5 26.2 39.4



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): 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: VN056072.D

Acq: 7 Jun 2019 3:04

Instrument :

MSVOA_N

ClientSampleId :

DUP-0530-190604

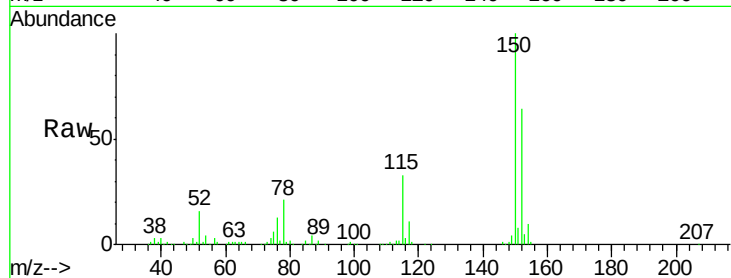
Tot Ion:152 Resp: 150771

Ion Ratio Lower Upper

152 100

115 53.3 27.0 81.0

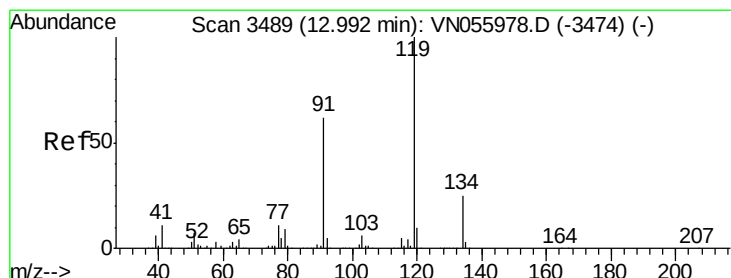
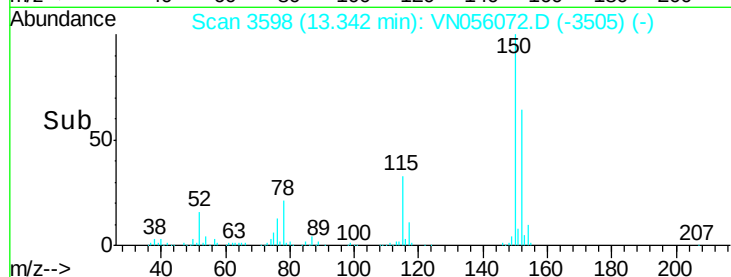
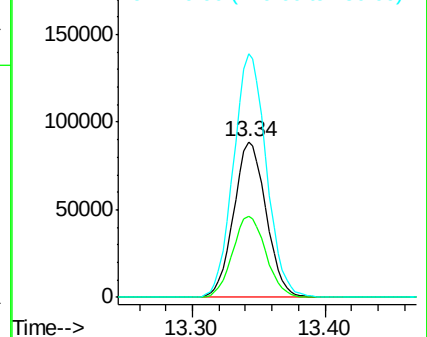
150 158.8 0.0 343.2



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



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN056072.D

Acq: 7 Jun 2019 3:04

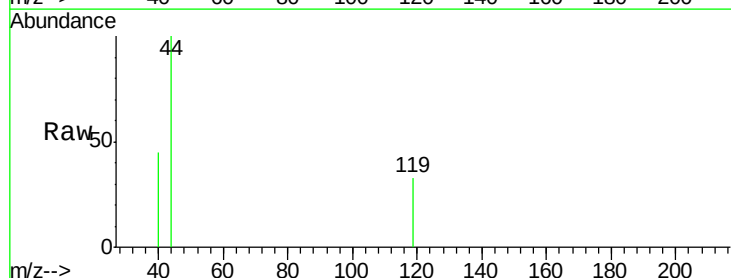
Tgt Ion:119 Resp: 59

Ion Ratio Lower Upper

119 100

91 0.0 30.9 92.8#

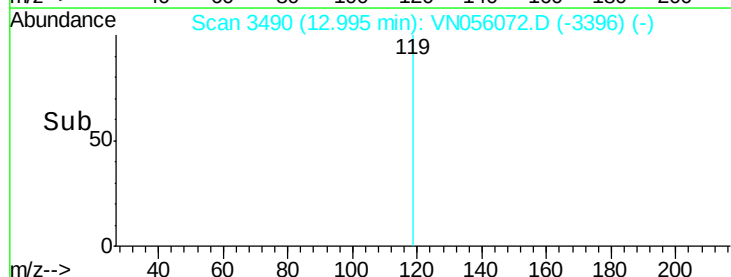
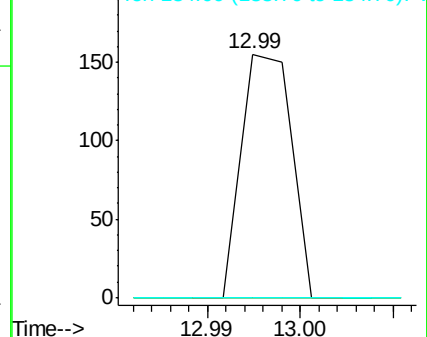
134 0.0 13.3 39.8#

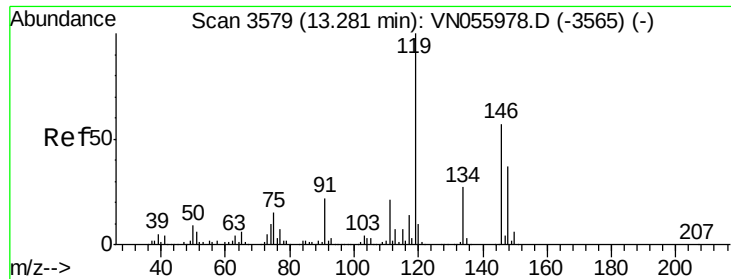


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V

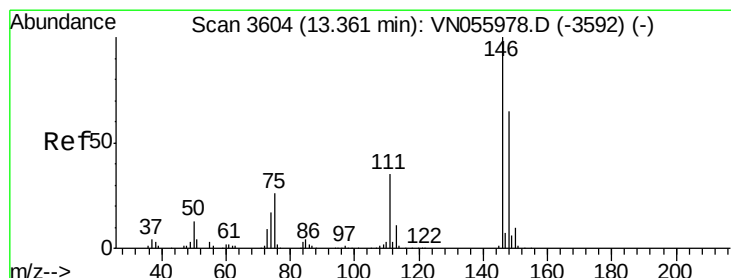
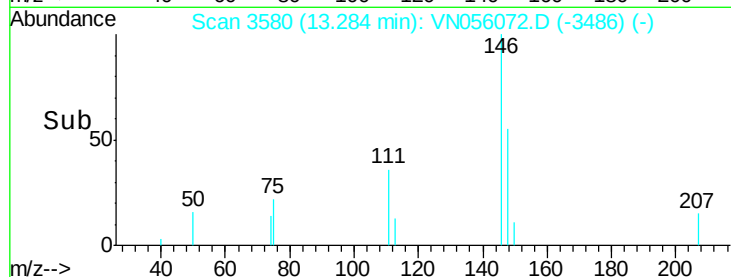
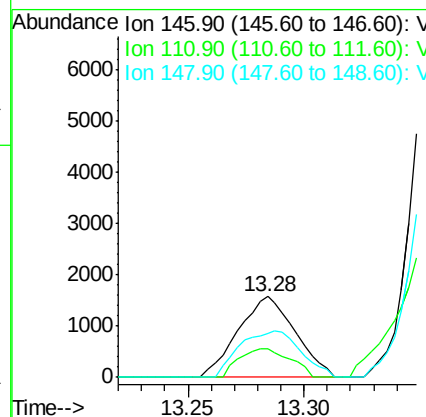
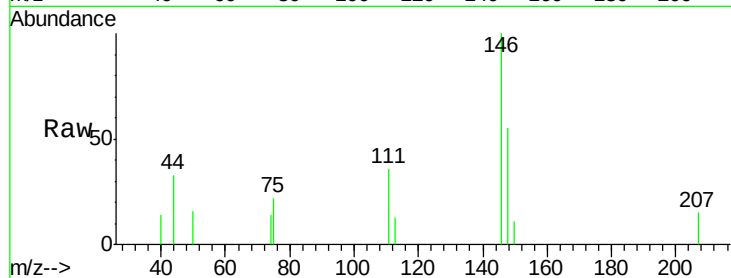




#87
 1,3-Dichlorobenzene
 Concen: 0.539 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN056072.D
 Acq: 7 Jun 2019 3:04

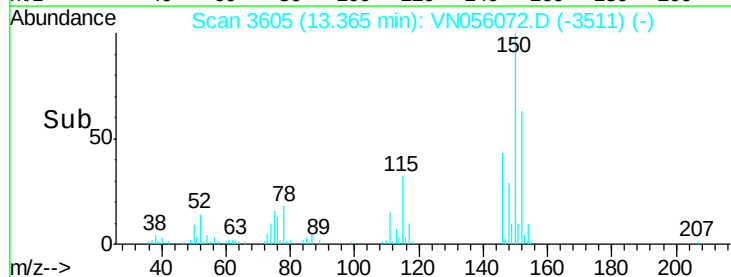
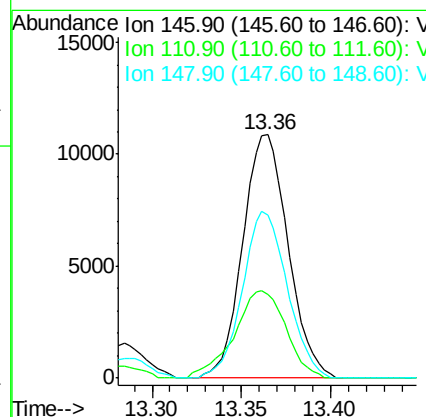
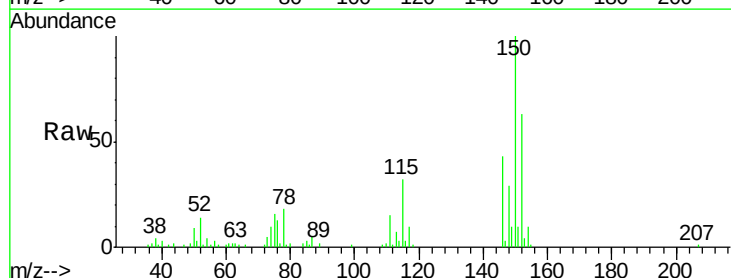
Instrument :
 MSVOA_N
 ClientSampleId :
 DUP-0530-190604

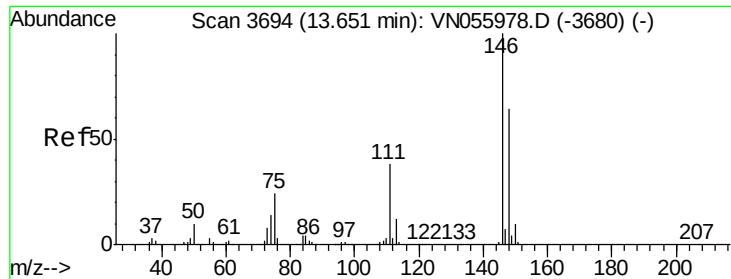
Tot Ion:146 Resp: 2692
 Ion Ratio Lower Upper
 146 100
 111 31.7 18.5 55.5
 148 61.2 32.0 96.2



#88
 1,4-Dichlorobenzene
 Concen: 4.028 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN056072.D
 Acq: 7 Jun 2019 3:04

Tgt Ion:146 Resp: 19359
 Ion Ratio Lower Upper
 146 100
 111 40.9 18.1 54.4
 148 67.7 32.1 96.5





#91

1,2-Dichlorobenzene

Concen: 9.194 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN056072.D

Acq: 7 Jun 2019 3:04

Instrument :

MSVOA_N

ClientSampleId :

DUP-0530-190604

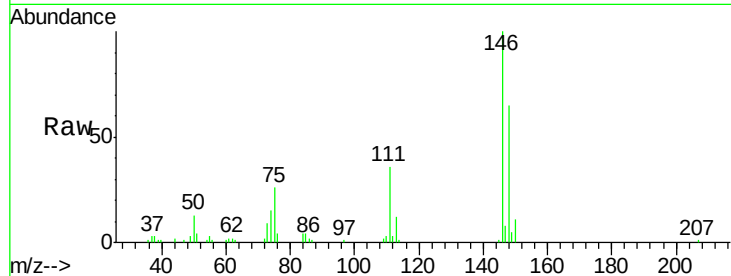
Tot Ion:146 Resp: 46375

Ion Ratio Lower Upper

146 100

111 36.7 19.1 57.5

148 64.7 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

