

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060819\
 Data File : VN056114.D
 Acq On : 7 Jun 2019 21:50
 Operator : JC/SP
 Sample : K3203-07DL 20X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LF015MW047-190604DL

Quant Time: Jun 08 05:14:30 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	315091	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	473820	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	457019	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	156489	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	169076	54.04	ug/l	0.00
Spiked Amount			Recovery	=	108.08%	
35) Dibromofluoromethane	7.59	113	146597	50.43	ug/l	0.00
Spiked Amount			Recovery	=	100.86%	
50) Toluene-d8	10.09	98	612675	54.77	ug/l	0.00
Spiked Amount			Recovery	=	109.54%	
62) 4-Bromofluorobenzene	12.40	95	198457	52.17	ug/l	0.00
Spiked Amount			Recovery	=	104.34%	

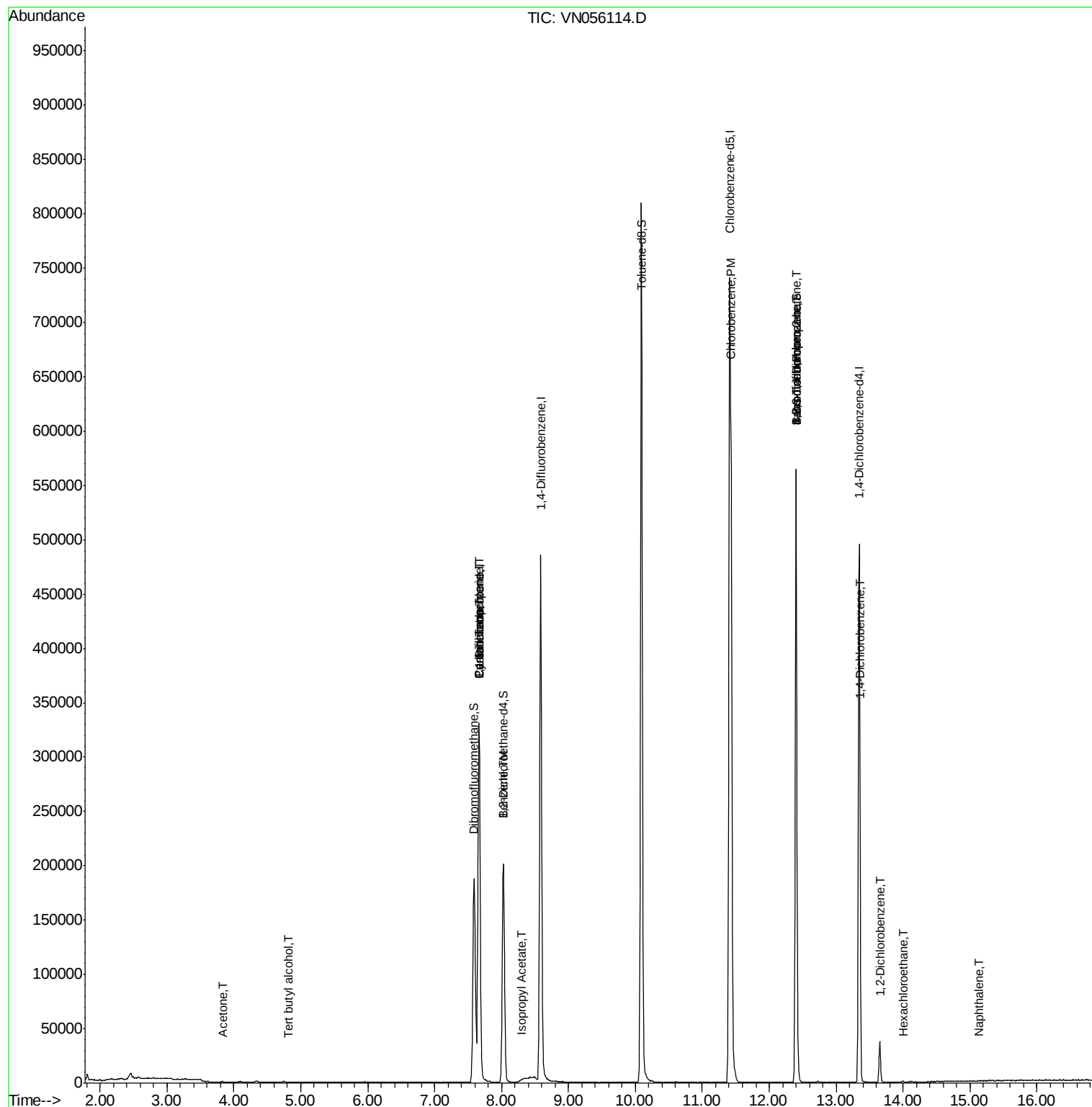
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.81	59	176	0.323	ug/l #	74
16) Acetone	3.82	43	1043	0.697	ug/l #	41
18) Methyl Acetate	4.33	43	1310	Below Cal	#	81
31) Cyclohexane	7.66	56	4166	0.839	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	18097	4.442	ug/l #	48
38) Carbon Tetrachloride	7.66	117	25229	6.717	ug/l #	15
40) Benzene	8.04	78	6072	0.491	ug/l	93
43) Isopropyl Acetate	8.29	43	2242	0.382	ug/l #	53
65) Chlorobenzene	11.43	112	299544	32.933	ug/l	100
71) Bromoform	12.40	173	1375	3.235	ug/l #	1
73) Isopropylbenzene	12.26	105	274	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	90288	31.356	ug/l #	100
79) 2-Chlorotoluene	12.60	91	29	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	90288	104.421	ug/l #	15
88) 1,4-Dichlorobenzene	13.36	146	4913	0.985	ug/l #	72
90) Hexachloroethane	13.99	117	877	0.554	ug/l #	1
91) 1,2-Dichlorobenzene	13.65	146	18446	3.523	ug/l	99
95) Naphthalene	15.13	128	445	3.906	ug/l #	69

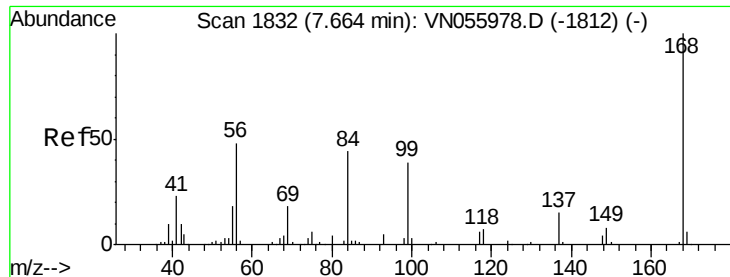
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN056114.D

Acq: 7 Jun 2019 21:50

Instrument :

MSVOA_N

ClientSampleId :

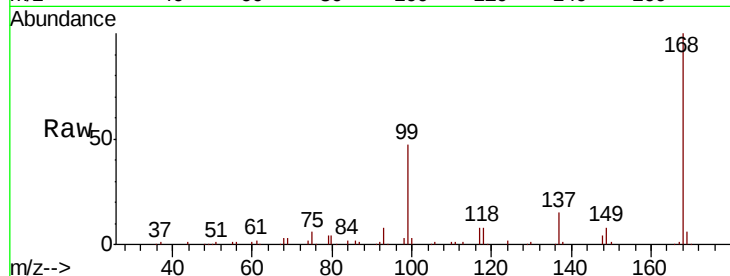
LF015MW047-190604DL

Tot Ion:168 Resp: 315091

Ion Ratio Lower Upper

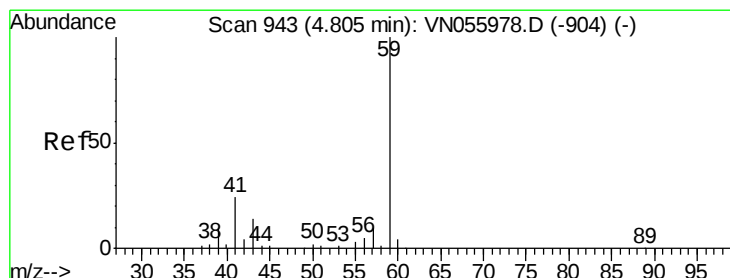
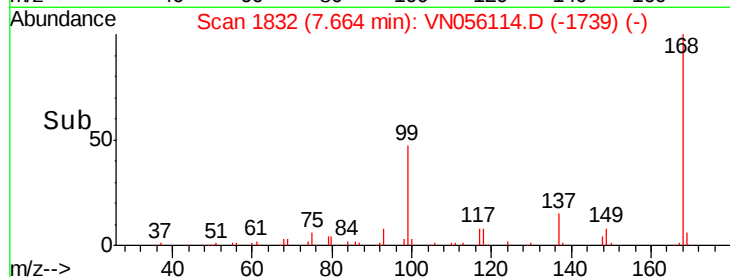
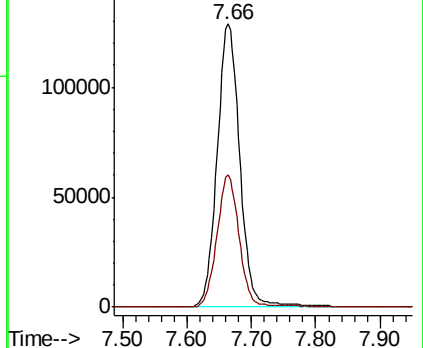
168 100

99 46.6 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#11

Tert butyl alcohol

Concen: 0.323 ug/l

RT: 4.81 min Scan# 944

Delta R.T. 0.00 min

Lab File: VN056114.D

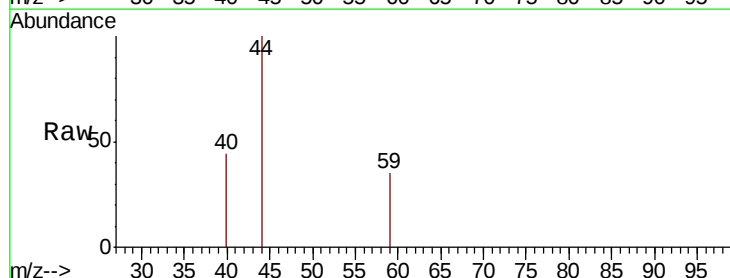
Acq: 7 Jun 2019 21:50

Tgt Ion: 59 Resp: 176

Ion Ratio Lower Upper

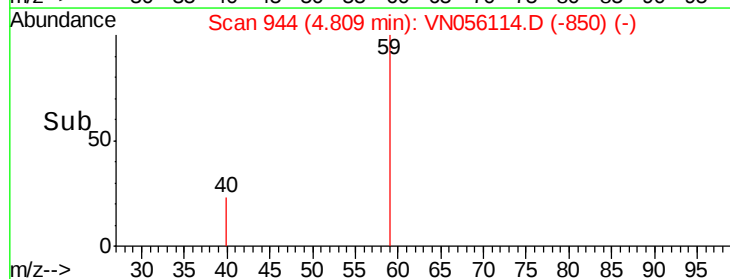
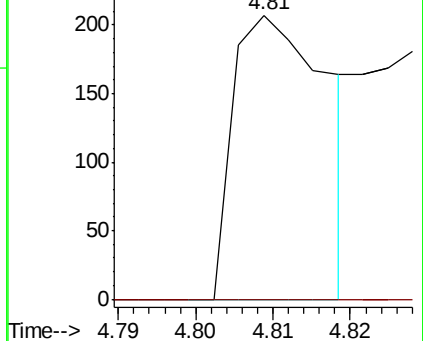
59 100

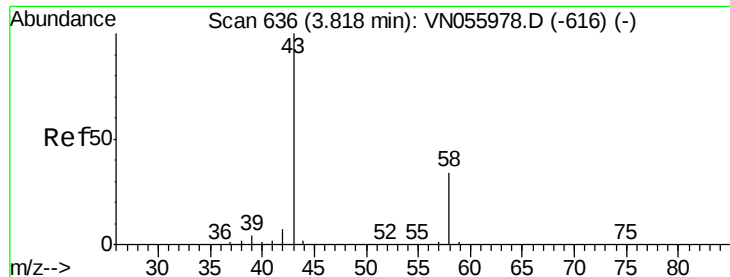
57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: 0.697 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN056114.D

Acq: 7 Jun 2019 21:50

Instrument :

MSVOA_N

ClientSampleId :

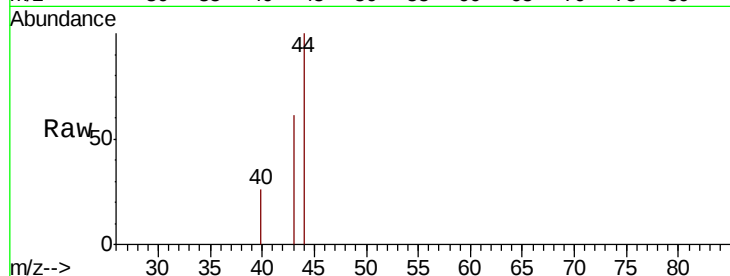
LF015MW047-190604DL

Tot Ion: 43 Resp: 1043

Ion Ratio Lower Upper

43 100

58 0.0 26.6 39.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.82

400

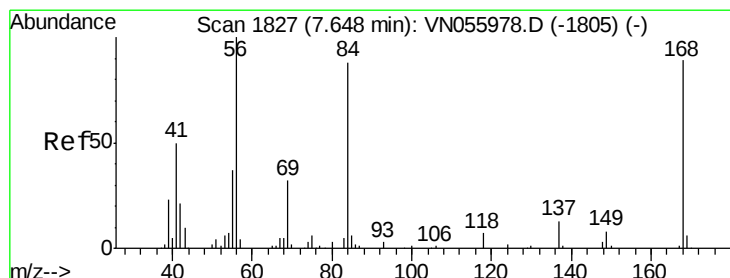
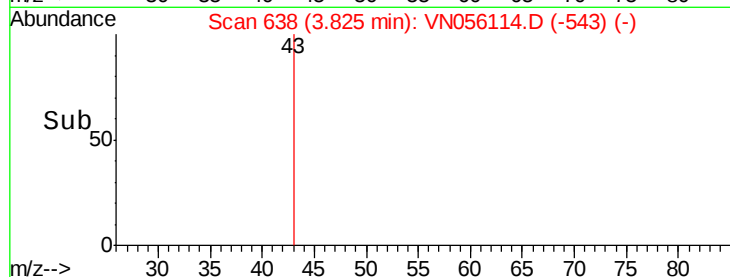
300

200

100

0

Time-->



#31

Cyclohexane

Concen: 0.839 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN056114.D

Acq: 7 Jun 2019 21:50

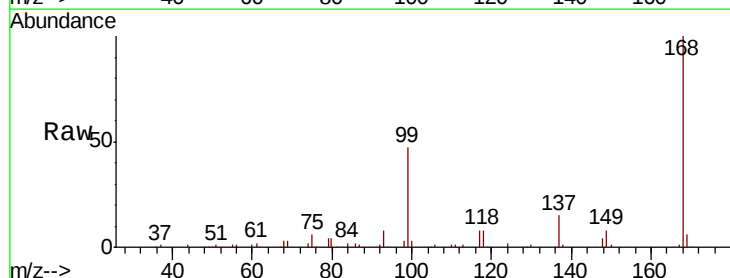
Tgt Ion: 56 Resp: 4166

Ion Ratio Lower Upper

56 100

69 199.2 25.6 38.4#

84 173.6 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

5000

4000

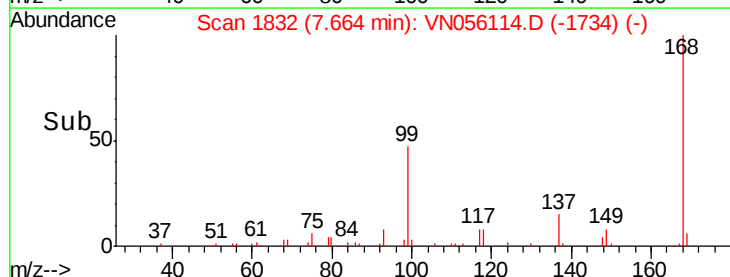
3000

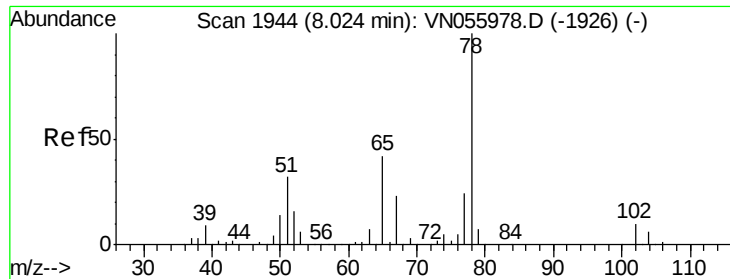
2000

1000

0

Time-->

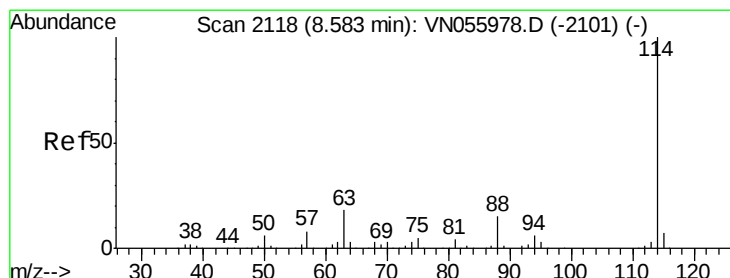
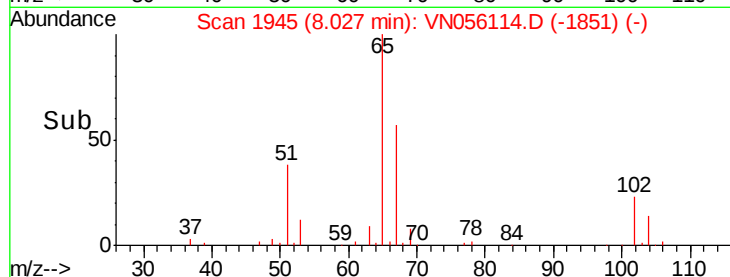
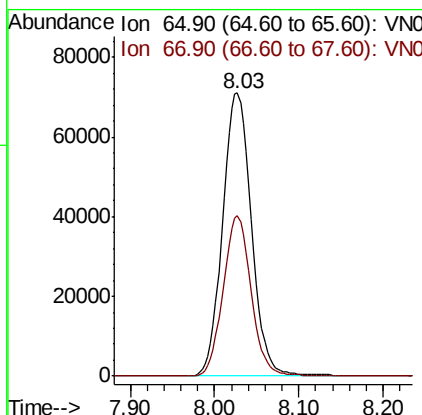
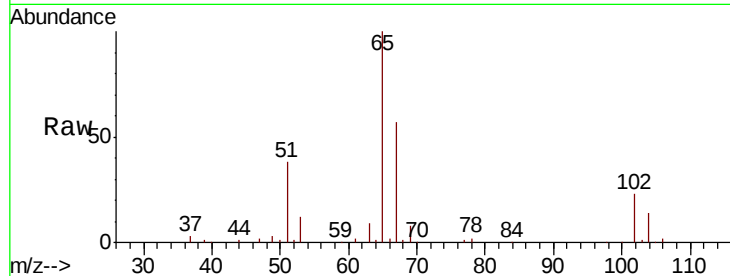




#33
 1,2-Dichloroethane-d4
 Concen: 54.042 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056114.D
 Acq: 7 Jun 2019 21:50

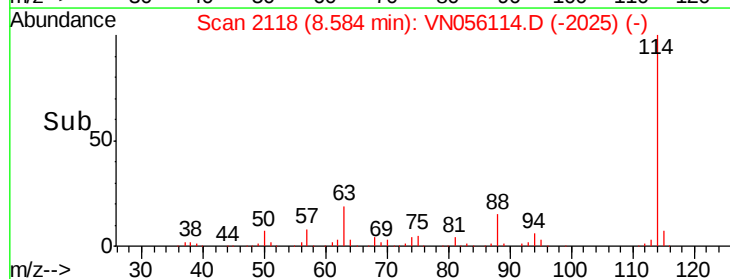
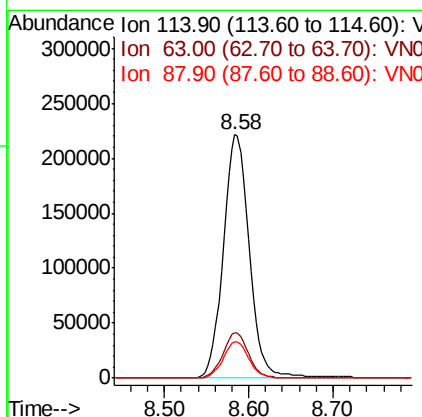
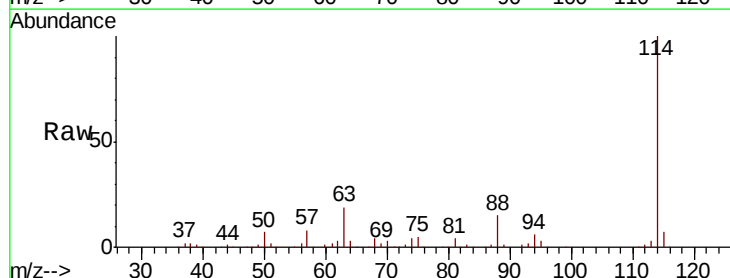
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 LF015MW047-190604DL

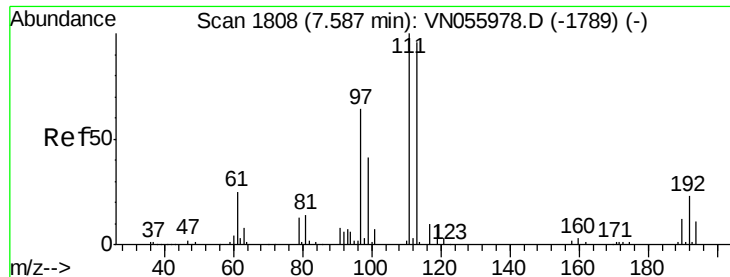
Tot Ion: 65 Resp: 169076
 Ion Ratio Lower Upper
 65 100
 67 54.6 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN056114.D
 Acq: 7 Jun 2019 21:50

Tgt Ion: 114 Resp: 473820
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 39.2
 88 15.2 0.0 31.0

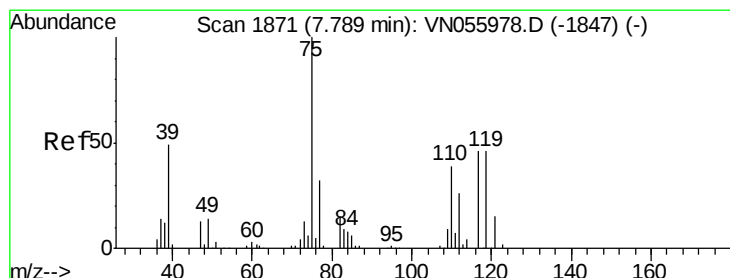
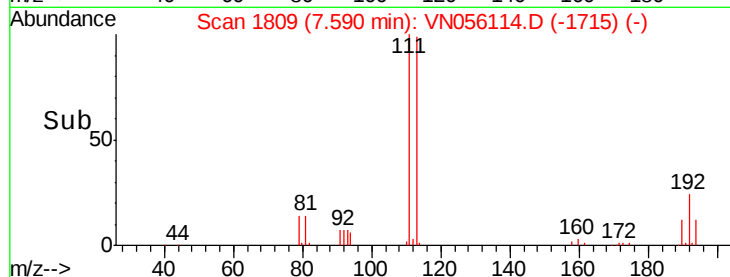
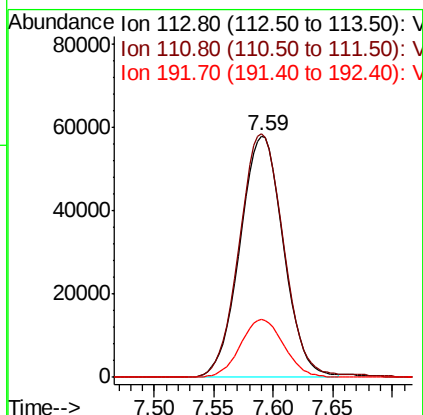
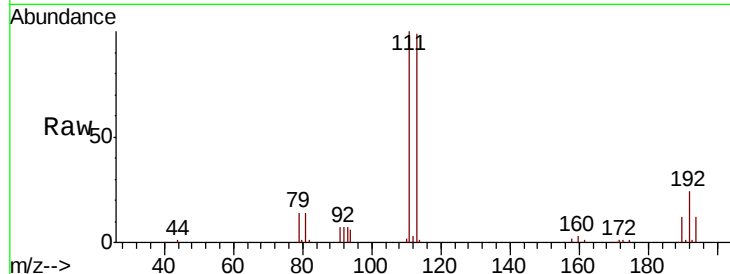




#35
 Dibromofluoromethane
 Concen: 50.428 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056114.D
 Acq: 7 Jun 2019 21:50

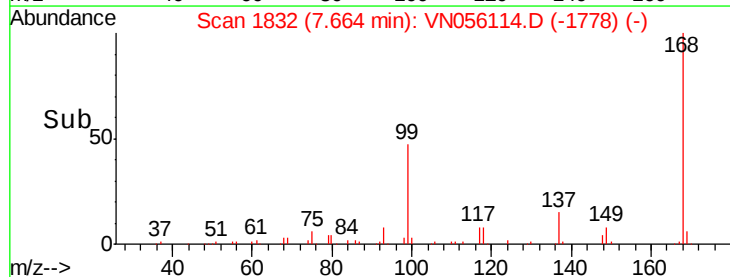
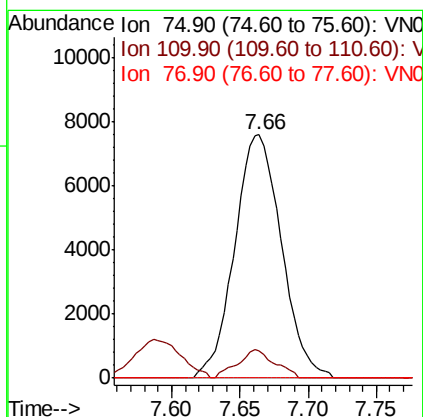
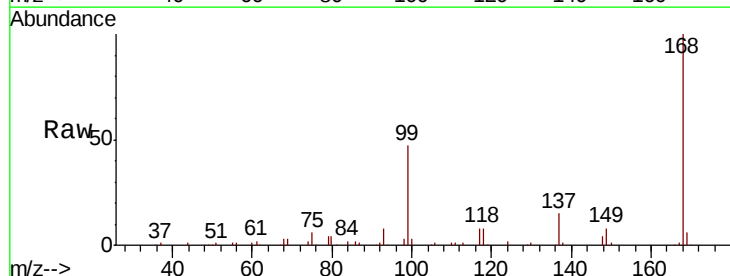
Instrument :
 MSVOA_N
 ClientSampleId :
 LF015MW047-190604DL

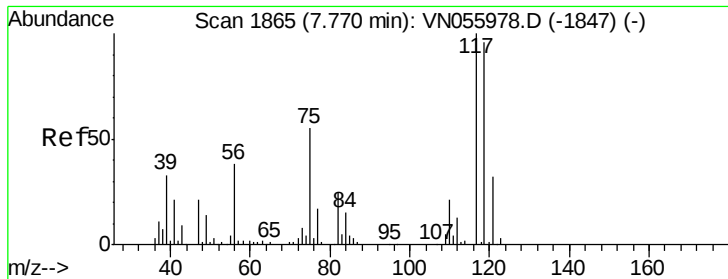
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.4	81.9	122.9
192	23.9	19.5	29.3



#36
 1,1-Dichloropropene
 Concen: 4.442 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056114.D
 Acq: 7 Jun 2019 21:50

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.2	19.0	57.0#
77	0.0	25.1	37.7#





#38

Carbon Tetrachloride

Concen: 6.717 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN056114.D

Acq: 7 Jun 2019 21:50

Instrument :

MSVOA_N

ClientSampleId :

LF015MW047-190604DL

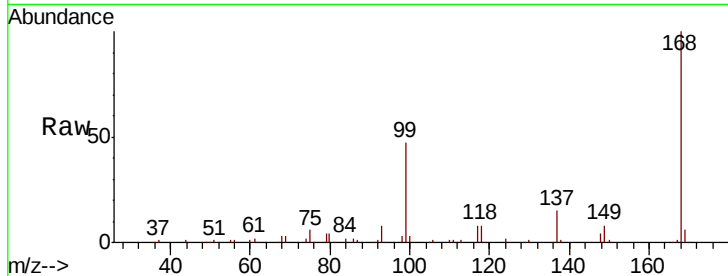
Tot Ion:117 Resp: 25229

Ion Ratio Lower Upper

117 100

119 4.8 79.0 118.6#

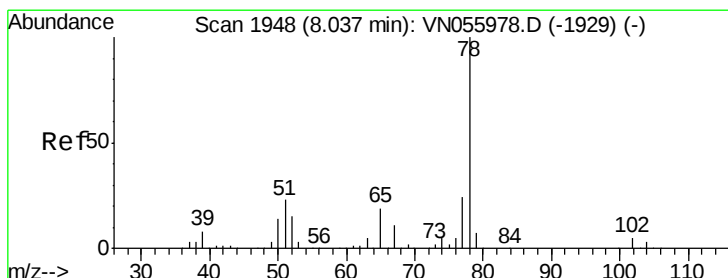
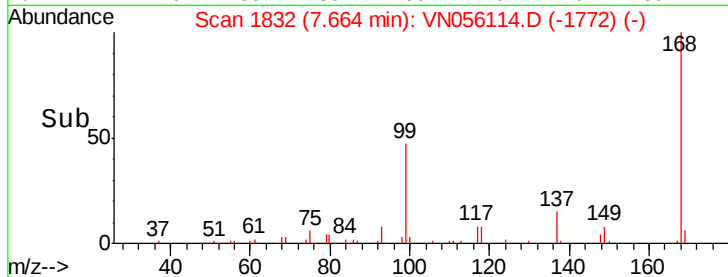
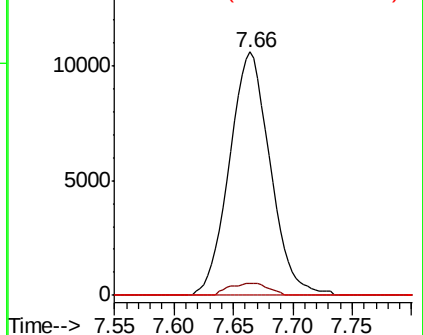
121 0.0 24.7 37.1#



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: 0.491 ug/l

RT: 8.04 min Scan# 1948

Delta R.T. 0.00 min

Lab File: VN056114.D

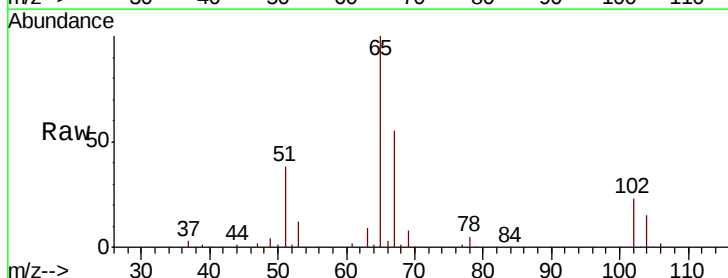
Acq: 7 Jun 2019 21:50

Tgt Ion: 78 Resp: 6072

Ion Ratio Lower Upper

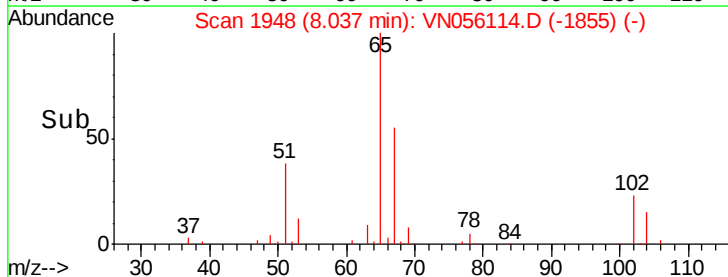
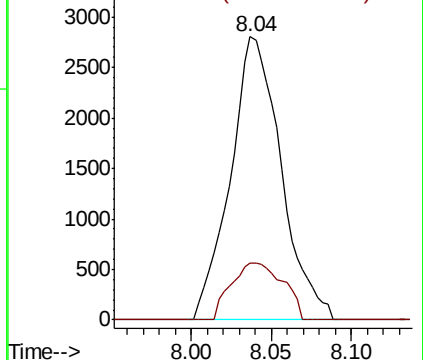
78 100

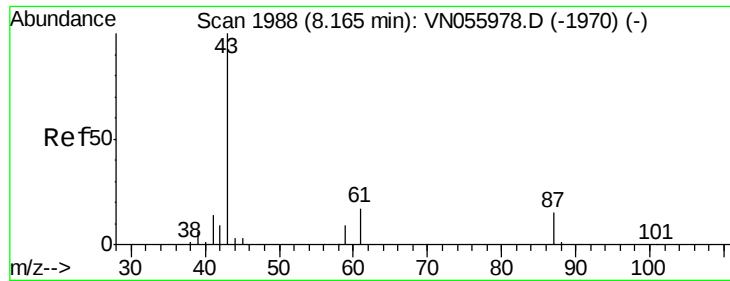
77 20.2 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0





#43

Isopropyl Acetate

Concen: 0.382 ug/l

RT: 8.29 min Scan# 2027

Delta R.T. 0.13 min

Lab File: VN056114.D

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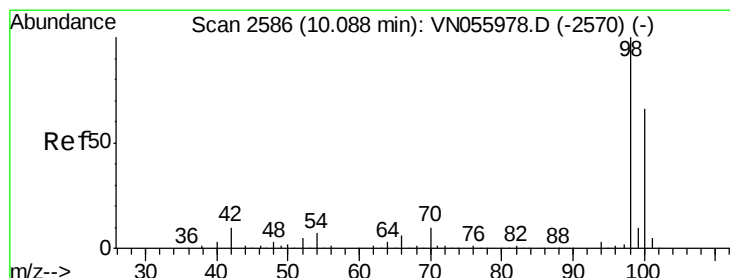
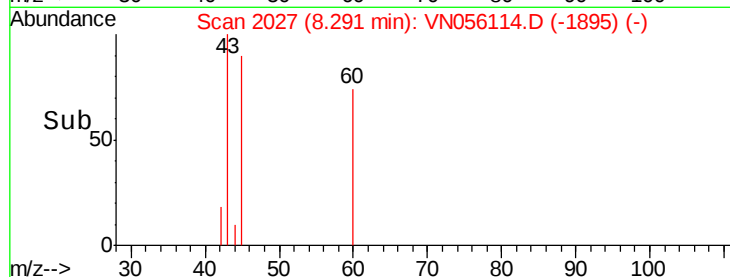
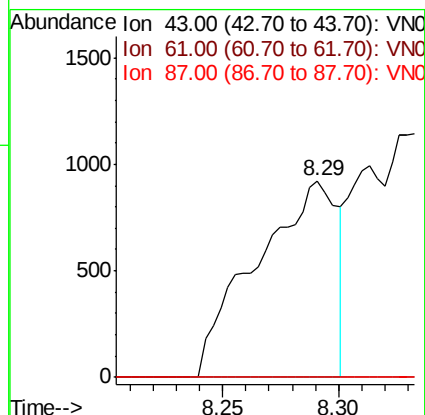
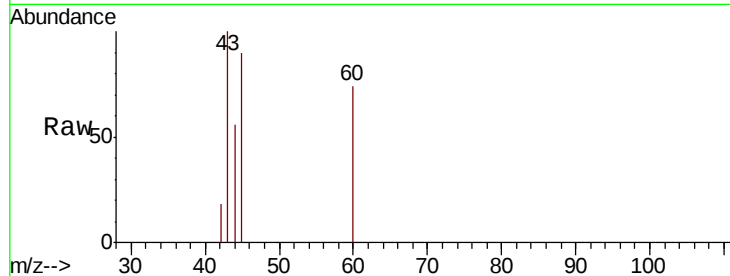
Tot Ion: 43 Resp: 2242

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

87 0.0 11.4 17.2#



#50

Toluene-d8

Concen: 54.770 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN056114.D

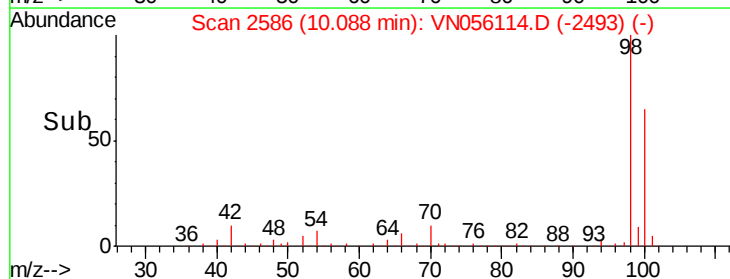
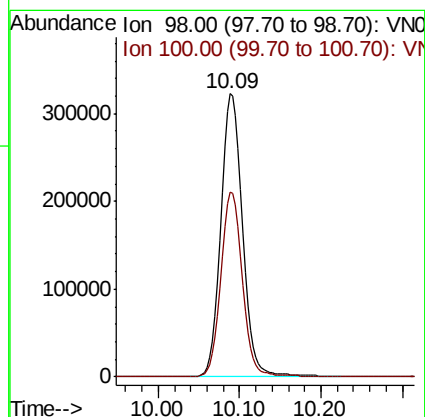
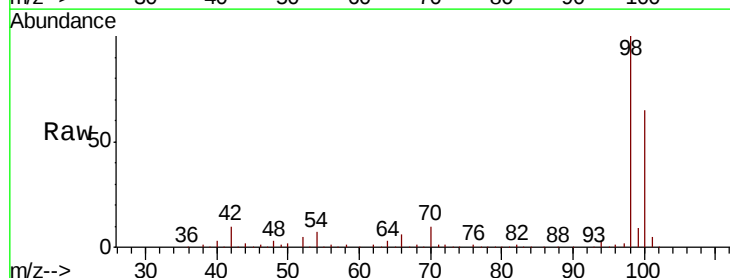
Acq: 7 Jun 2019 21:50

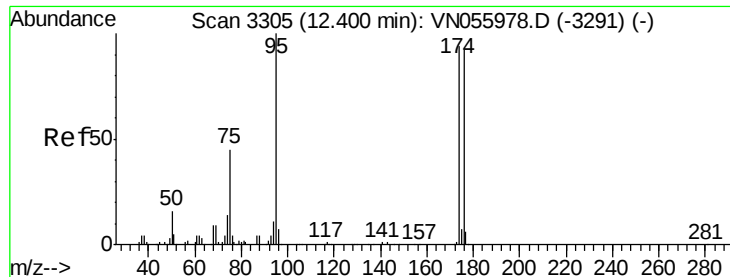
Tgt Ion: 98 Resp: 612675

Ion Ratio Lower Upper

98 100

100 64.9 51.9 77.9





#62

4-Bromofluorobenzene

Concen: 52.168 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056114.D

Acq: 7 Jun 2019 21:50

Instrument :

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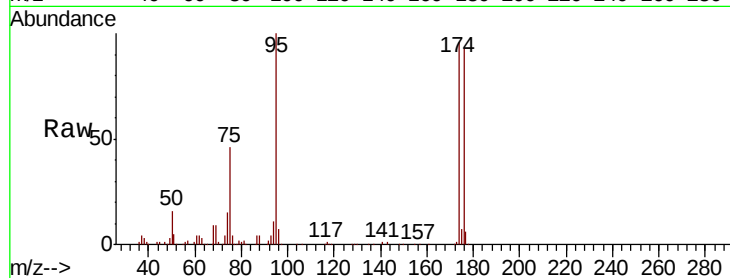
Tot Ion: 95 Resp: 198457

Ion Ratio Lower Upper

95 100

174 96.6 0.0 191.0

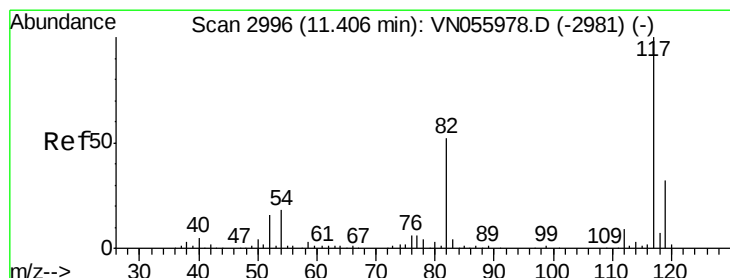
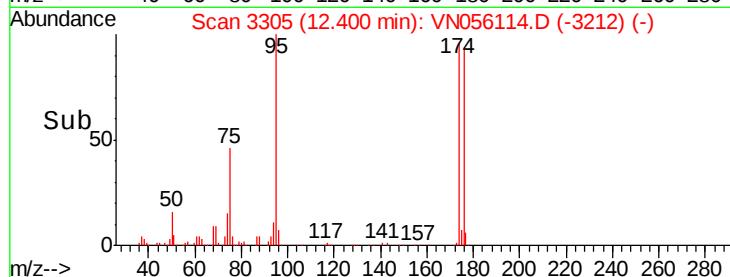
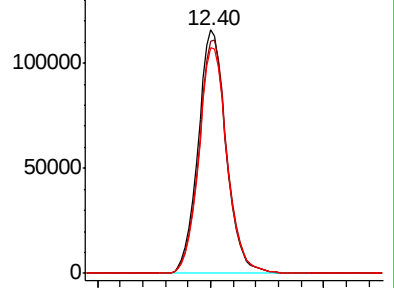
176 93.6 0.0 185.2



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

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: VN056114.D

Acq: 7 Jun 2019 21:50

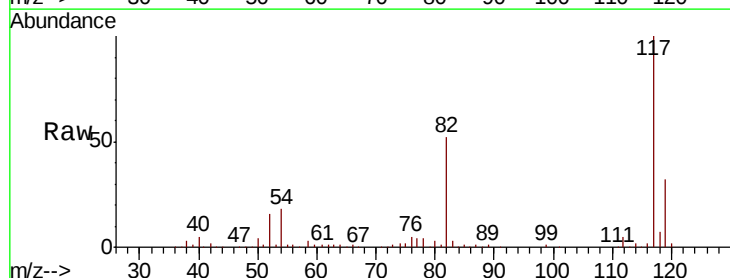
Tgt Ion: 117 Resp: 457019

Ion Ratio Lower Upper

117 100

82 51.6 41.8 62.8

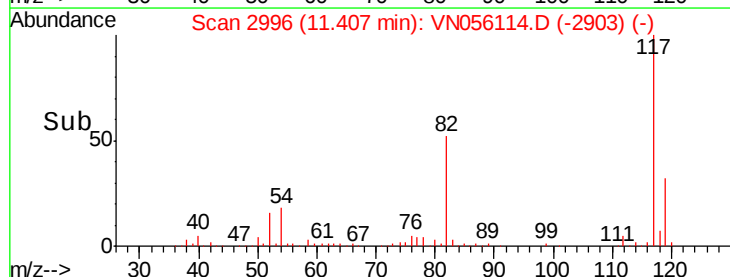
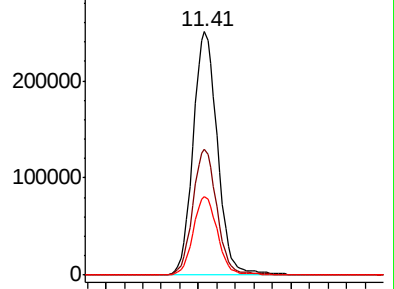
119 32.4 25.4 38.0

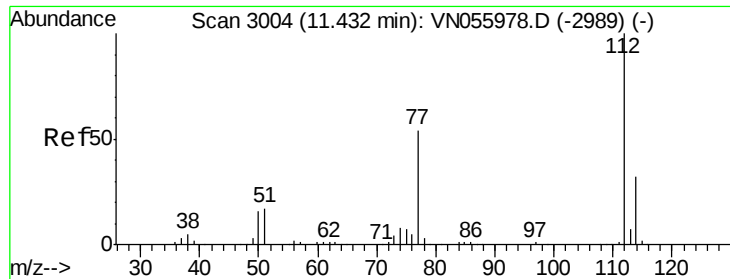


Abundance Ion 116.90 (116.60 to 117.60): VN055978.D (-2981) (-)

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

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

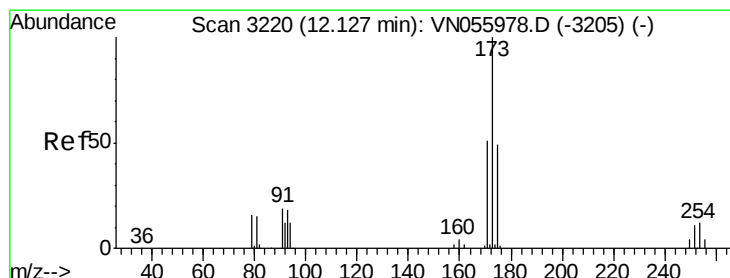
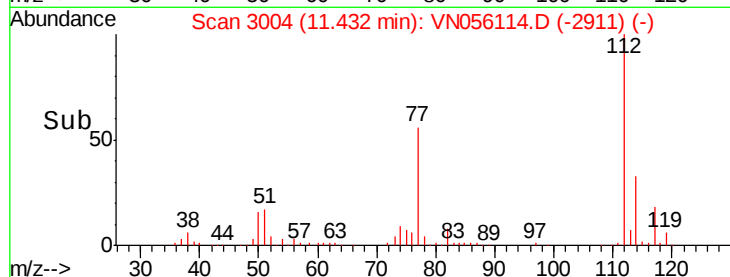
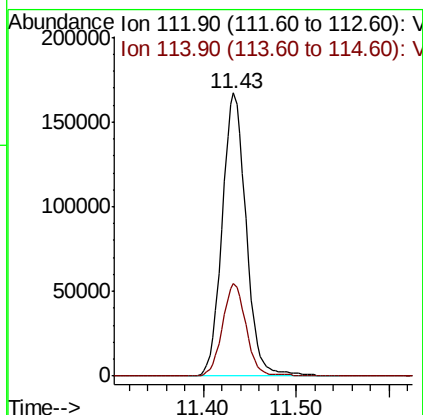
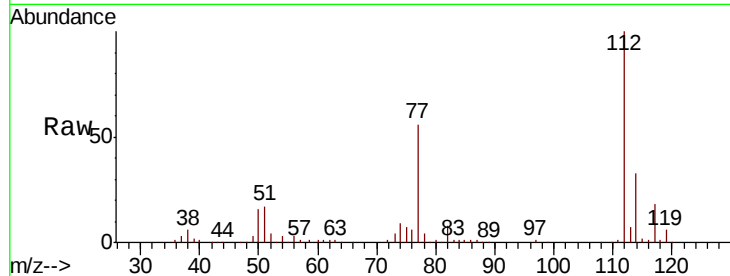




#65
Chlorobenzene
Concen: 32.933 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN056114.D
Acq: 7 Jun 2019 21:50

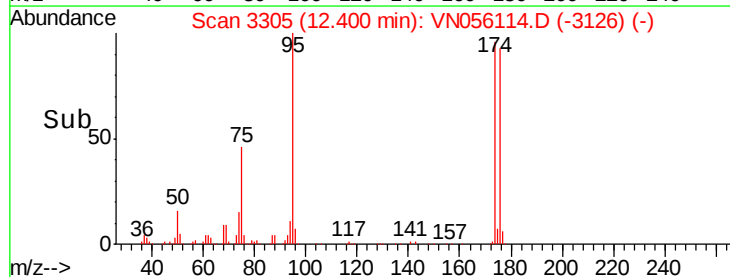
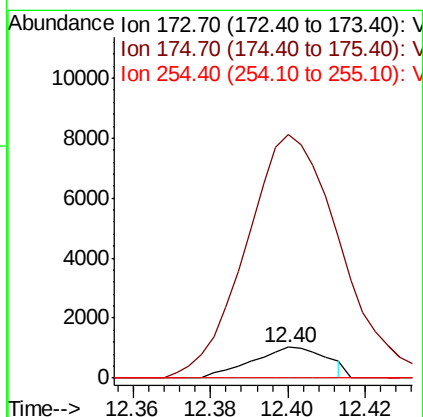
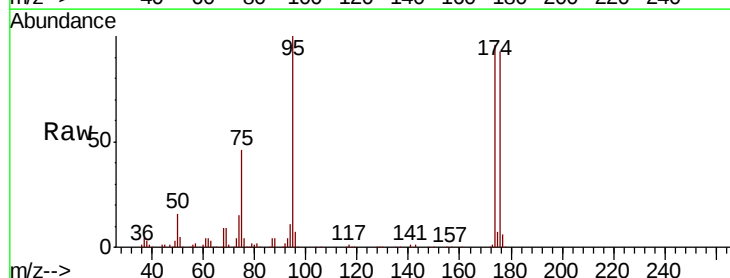
Instrument :
MSVOA_N
ClientSampleId :
LF015MW047-190604DL

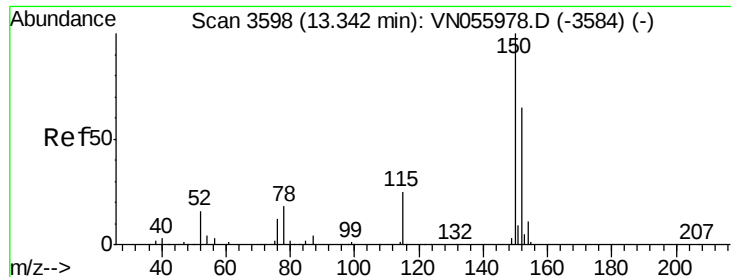
Tot Ion:112 Resp: 299544
Ion Ratio Lower Upper
112 100
114 32.6 26.2 39.4



#71
Bromoform
Concen: 3.235 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN056114.D
Acq: 7 Jun 2019 21:50

Tgt Ion:173 Resp: 1375
Ion Ratio Lower Upper
173 100
175 865.5 24.3 72.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN056114.D

Acq: 7 Jun 2019 21:50

Instrument :

MSVOA_N

ClientSampleId :

LF015MW047-190604DL

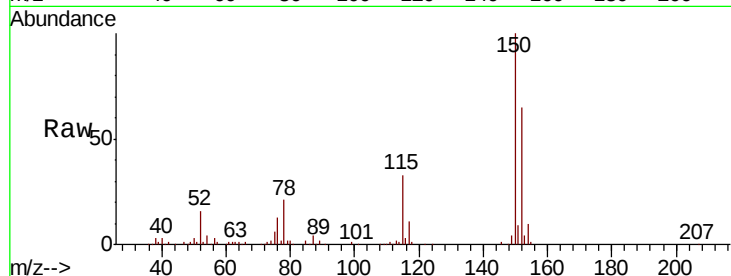
Tot Ion:152 Resp: 156489

Ion Ratio Lower Upper

152 100

115 52.8 27.0 81.0

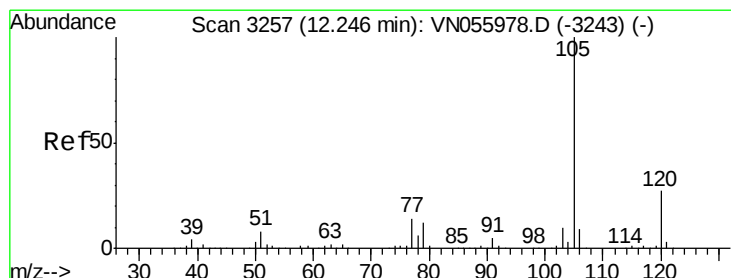
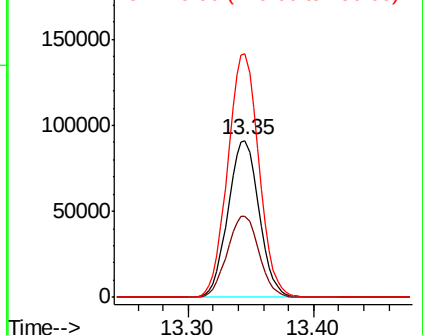
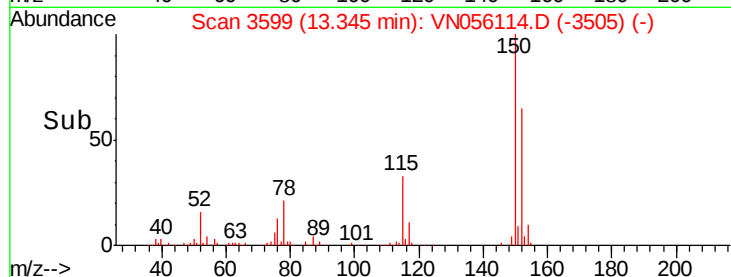
150 155.7 0.0 343.2



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: 12.26 min Scan# 3260

Delta R.T. 0.01 min

Lab File: VN056114.D

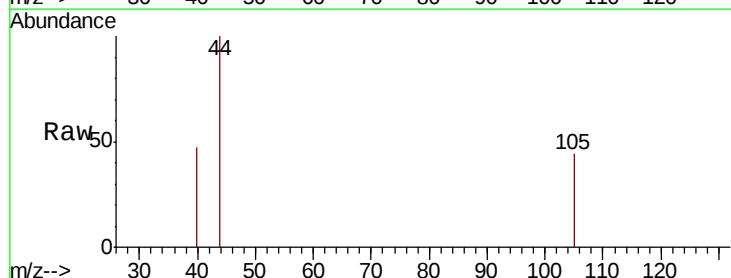
Acq: 7 Jun 2019 21:50

Tgt Ion:105 Resp: 274

Ion Ratio Lower Upper

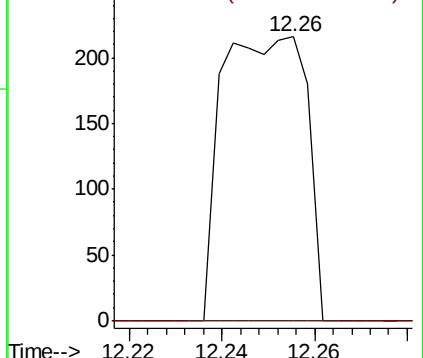
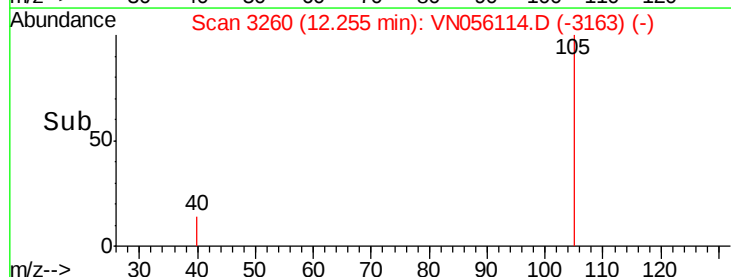
105 100

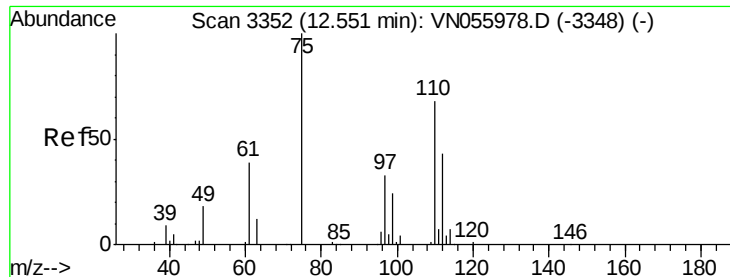
120 0.0 13.6 40.7#



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: 31.356 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056114.D

Acq: 7 Jun 2019 21:50

Instrument :

MSVOA_N

ClientSampleId :

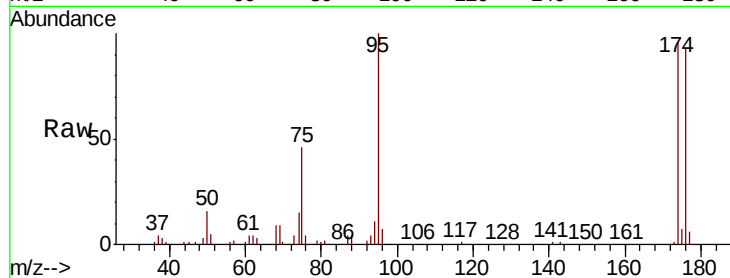
LF015MW047-190604DL

Tot Ion: 75 Resp: 90288

Ion Ratio Lower Upper

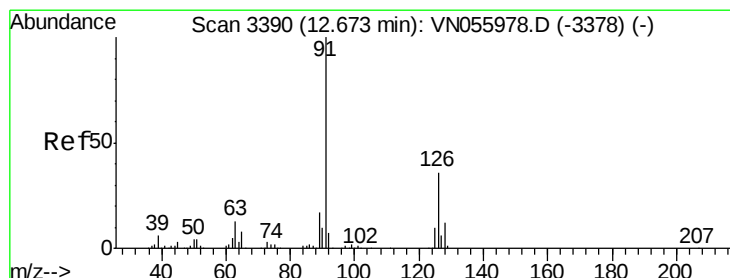
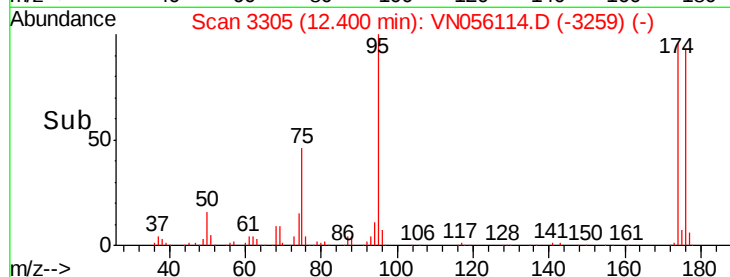
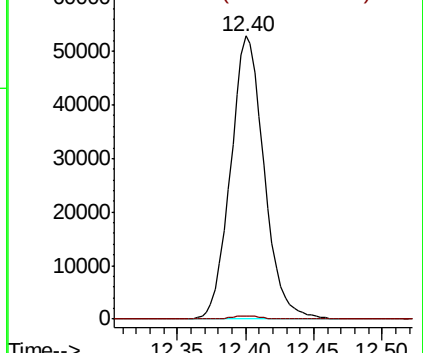
75 100

77 0.9 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: 12.60 min Scan# 3366

Delta R.T. -0.08 min

Lab File: VN056114.D

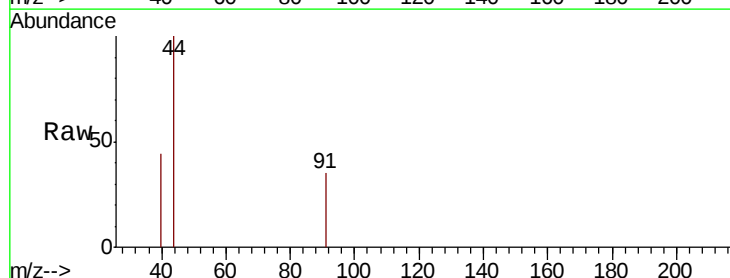
Acq: 7 Jun 2019 21:50

Tgt Ion: 91 Resp: 29

Ion Ratio Lower Upper

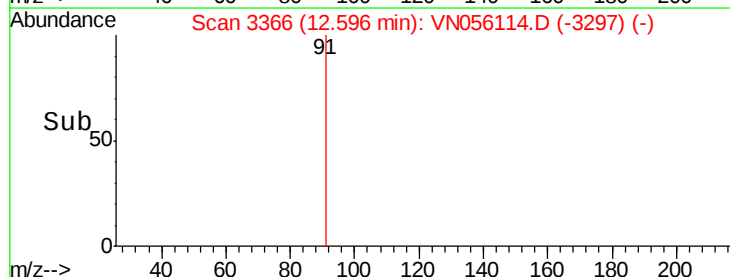
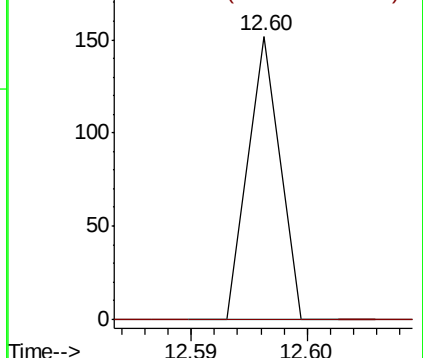
91 100

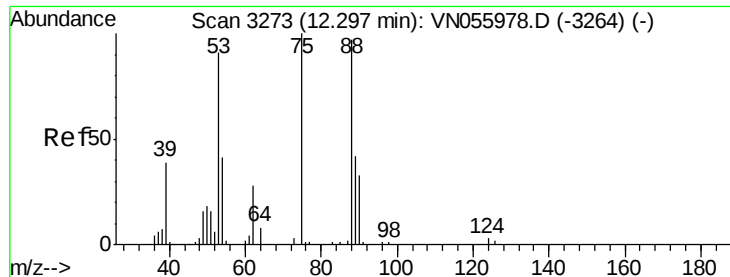
126 0.0 18.1 54.4#



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: 104.421 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056114.D

Acq: 7 Jun 2019 21:50

Instrument :

MSVOA_N

ClientSampleId :

LF015MW047-190604DL

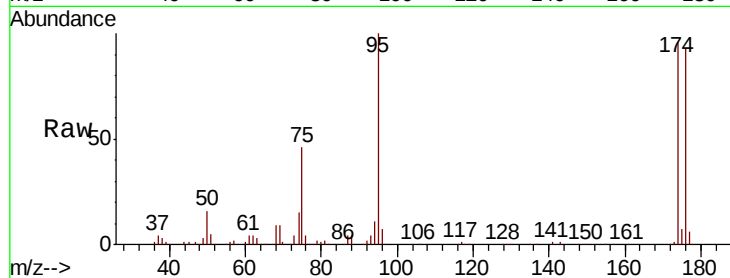
Tot Ion: 75 Resp: 90288

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

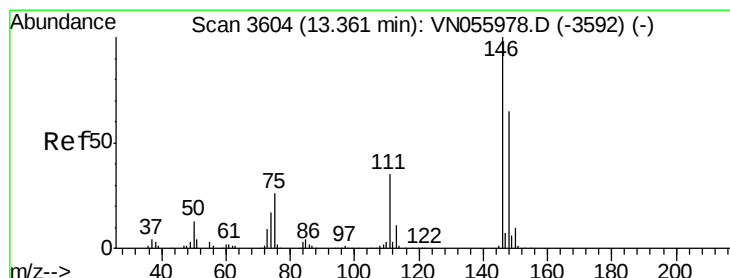
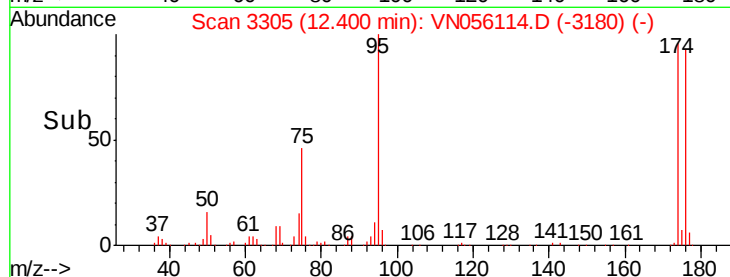
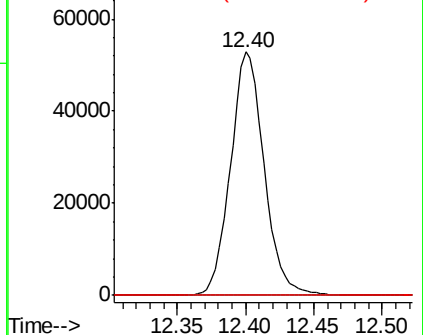
89 0.0 36.9 55.3#



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

Ion 53.00 (52.70 to 53.70): VN055978.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN055978.D (-3264) (-)



#88

1,4-Dichlorobenzene

Concen: 0.985 ug/l

RT: 13.36 min Scan# 3605

Delta R.T. 0.00 min

Lab File: VN056114.D

Acq: 7 Jun 2019 21:50

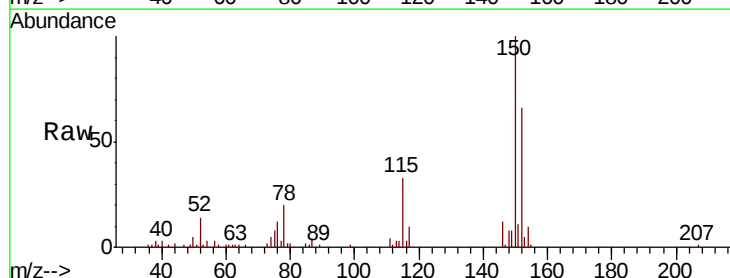
Tgt Ion: 146 Resp: 4913

Ion Ratio Lower Upper

146 100

111 68.1 18.1 54.4#

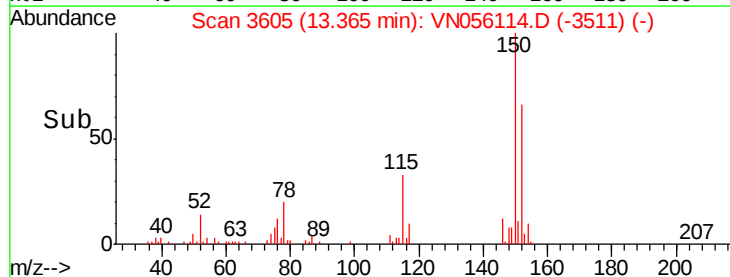
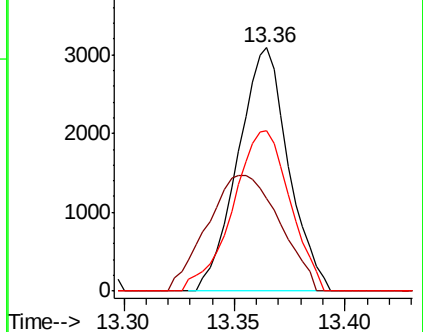
148 74.3 32.1 96.5

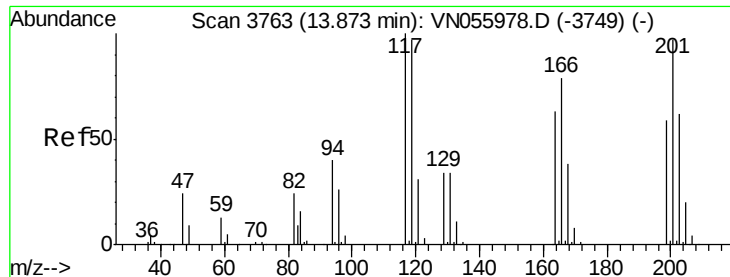


Abundance Ion 145.90 (145.60 to 146.60): VN055978.D (-3592) (-)

Ion 110.90 (110.60 to 111.60): VN055978.D (-3592) (-)

Ion 147.90 (147.60 to 148.60): VN055978.D (-3592) (-)

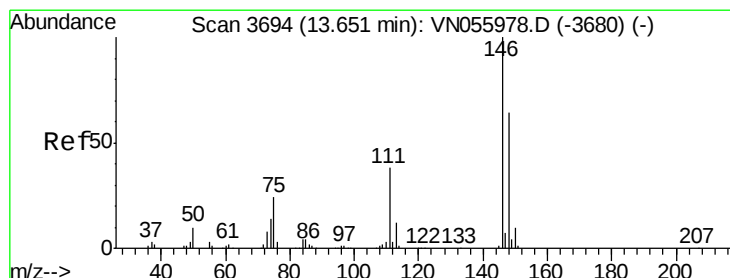
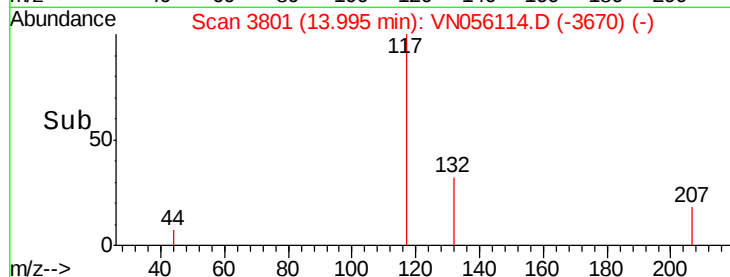
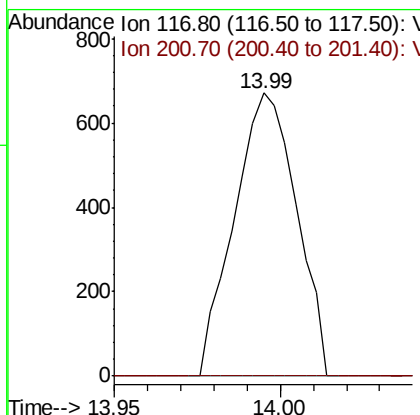
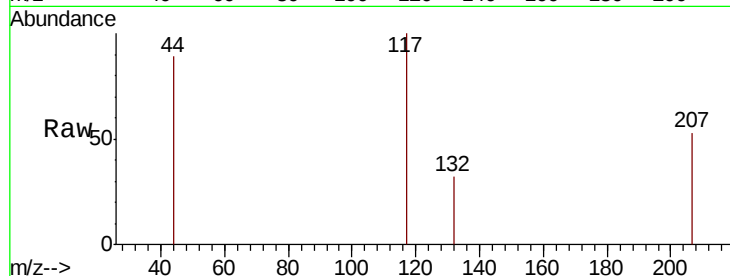




#90
Hexachloroethane
Concen: 0.554 ug/l
RT: 13.99 min Scan# 3801
Delta R.T. 0.12 min
Lab File: VN056114.D
Acq: 7 Jun 2019 21:50

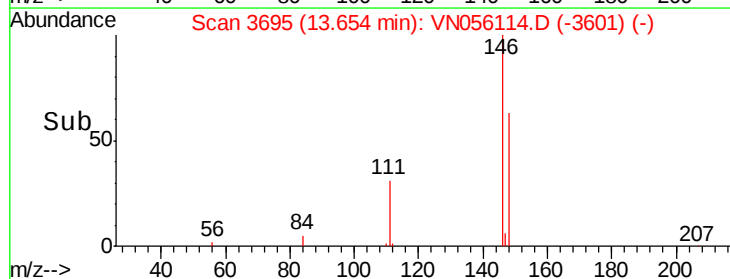
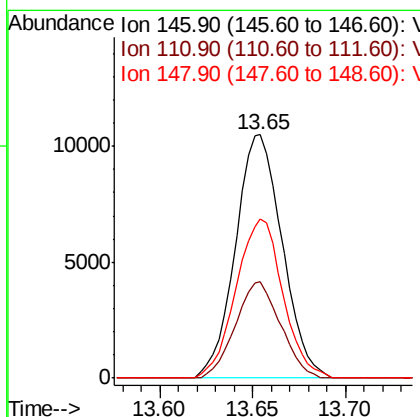
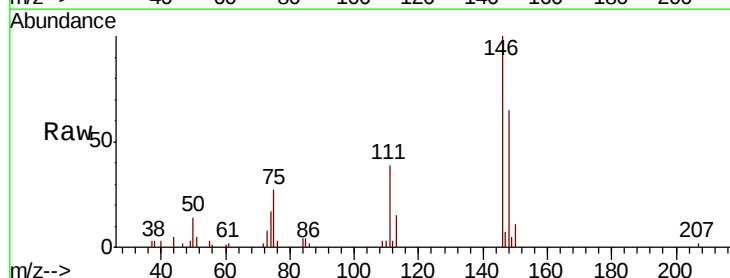
Instrument :
MSVOA_N
ClientSampleId :
LF015MW047-190604DL

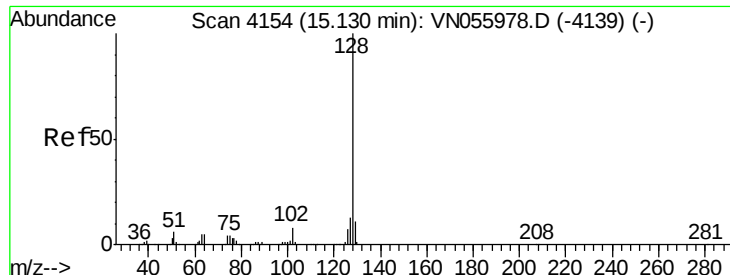
Tot Ion:117 Resp: 877
Ion Ratio Lower Upper
117 100
201 0.0 50.0 150.0#



#91
1,2-Dichlorobenzene
Concen: 3.523 ug/l
RT: 13.65 min Scan# 3695
Delta R.T. 0.00 min
Lab File: VN056114.D
Acq: 7 Jun 2019 21:50

Tgt Ion:146 Resp: 18446
Ion Ratio Lower Upper
146 100
111 38.2 19.1 57.5
148 65.3 31.9 95.9





#95

Naphthalene

Concen: 3.906 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056114.D

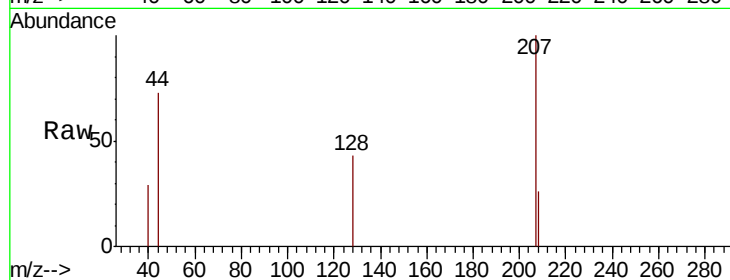
Acq: 7 Jun 2019 21:50

Instrument :

MSVOA_N

ClientSampleId :

LF015MW047-190604DL



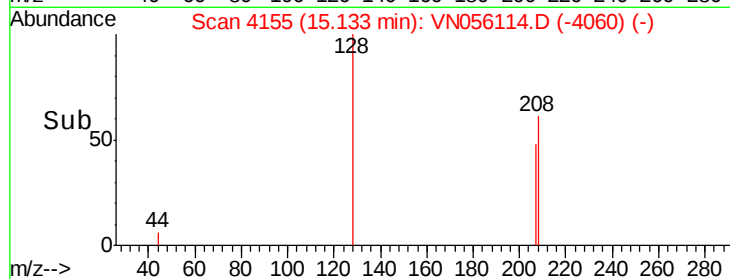
Tot Ion:128 Resp: 445

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

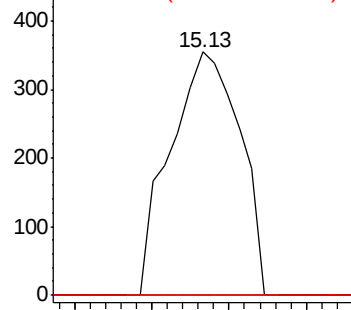
129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->