

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060819\
 Data File : VN056110.D
 Acq On : 7 Jun 2019 20:10
 Operator : JC/SP
 Sample : K3203-15
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LF015RW009-190604

Quant Time: Jun 08 05:13:40 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	363694	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	543957	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	520790	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	164896	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	189094	52.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.72%	
35) Dibromofluoromethane	7.59	113	167553	50.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.42%	
50) Toluene-d8	10.09	98	696101	54.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.40%	
62) 4-Bromofluorobenzene	12.40	95	218578	50.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.10%	

Target Compounds

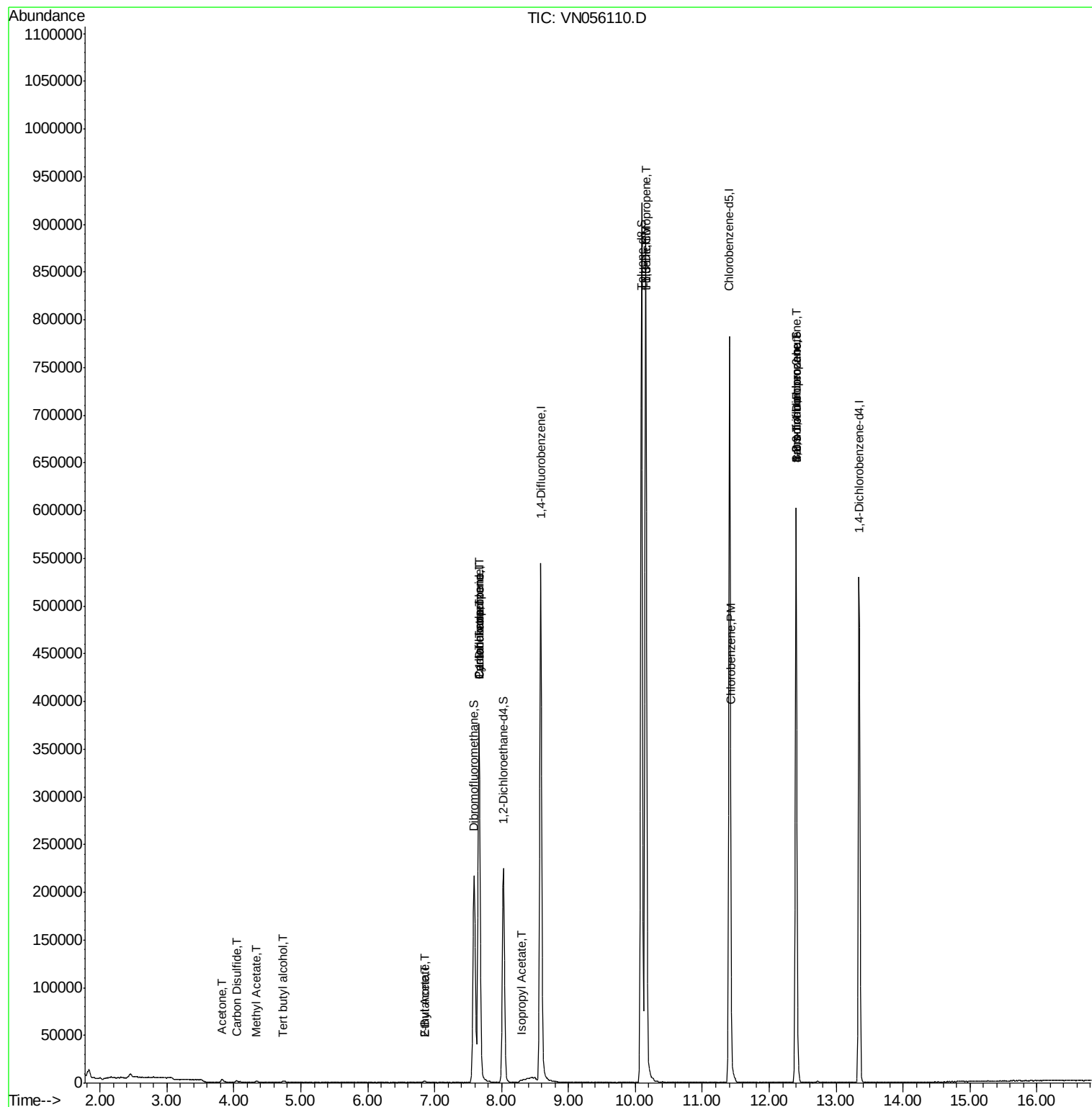
						Qvalue
11) Tert butyl alcohol	4.74	59	880	1.400	ug/l #	74
16) Acetone	3.82	43	5977	3.461	ug/l	90
17) Carbon Disulfide	4.04	76	3741	0.512	ug/l	96
18) Methyl Acetate	4.33	43	2761	0.238	ug/l #	79
25) 2-Butanone	6.86	43	1753	0.803	ug/l #	47
31) Cyclohexane	7.66	56	4950	0.864	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	20910	4.471	ug/l #	48
37) Ethyl Acetate	6.86	43	1753	0.421	ug/l #	67
38) Carbon Tetrachloride	7.66	117	29231	6.779	ug/l #	14
43) Isopropyl Acetate	8.30	43	2680	0.397	ug/l #	53
52) Toluene	10.16	92	413448	46.771	ug/l	100
53) t-1,3-Dichloropropene	10.16	75	4166	3.182	ug/l #	1
65) Chlorobenzene	11.43	112	5219	0.504	ug/l	96
71) Bromoform	12.40	173	1497	3.213	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	99276	32.719	ug/l #	100
79) 2-Chlorotoluene	12.59	91	110	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	99276	108.962	ug/l #	15

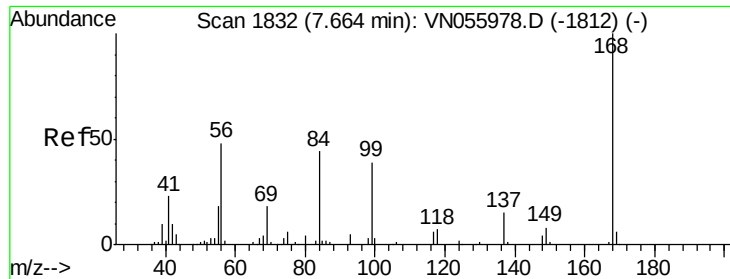
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN056110.D

Acq: 7 Jun 2019 20:10

Instrument :

MSVOA_N

ClientSampleId :

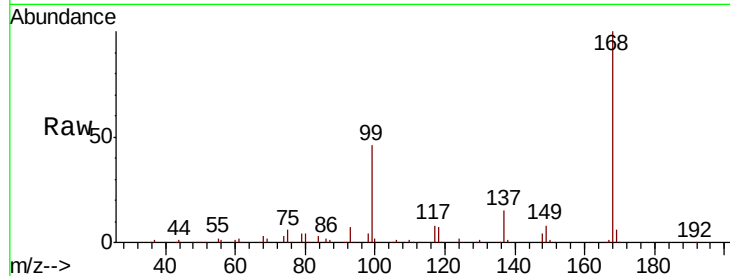
LF015RW009-190604

Tot Ion:168 Resp: 363694

Ion Ratio Lower Upper

168 100

99 45.7 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

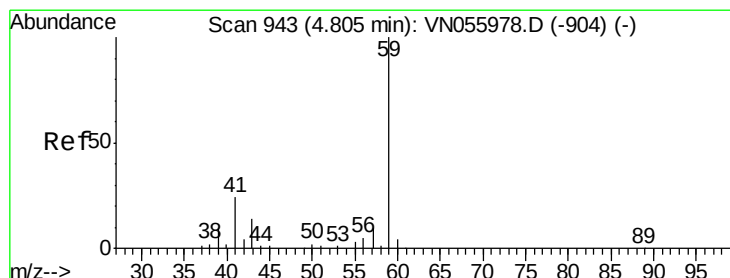
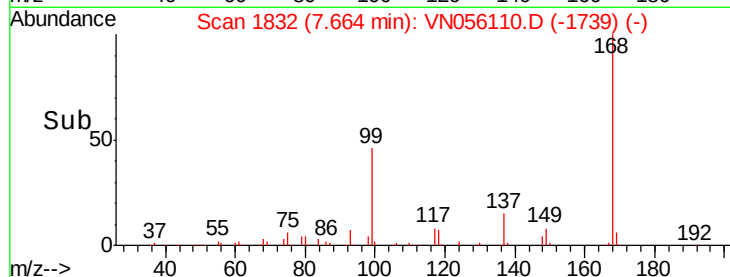
100000

50000

0

7.60 7.70 7.80

Time-->



#11

Tert butyl alcohol

Concen: 1.400 ug/l

RT: 4.74 min Scan# 923

Delta R.T. -0.06 min

Lab File: VN056110.D

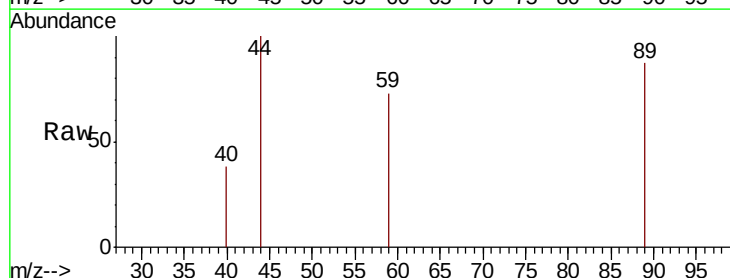
Acq: 7 Jun 2019 20:10

Tgt Ion: 59 Resp: 880

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.74

500

400

300

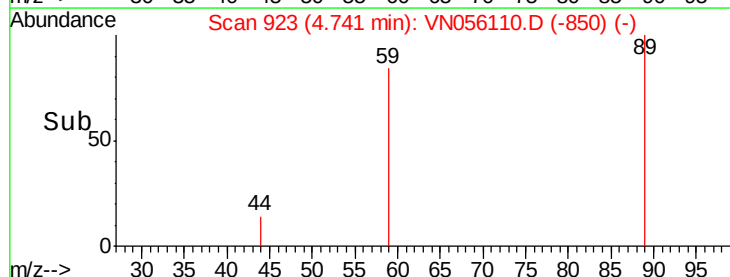
200

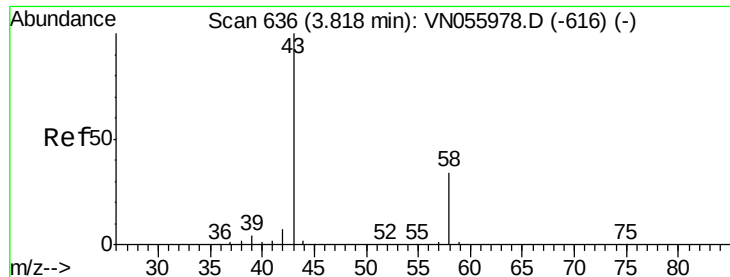
100

0

4.70 4.72 4.74 4.76

Time-->





#16

Acetone

Concen: 3.461 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN056110.D

Acq: 7 Jun 2019 20:10

Instrument :

MSVOA_N

ClientSampleId :

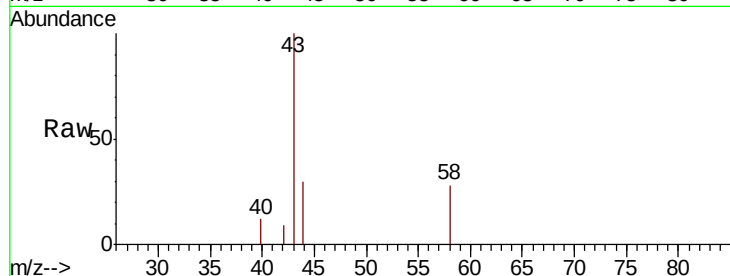
LF015RW009-190604

Tot Ion: 43 Resp: 5977

Ion Ratio Lower Upper

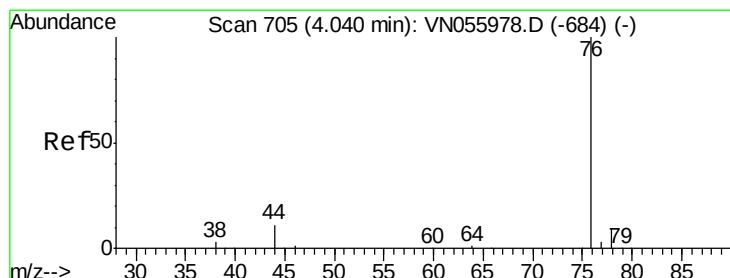
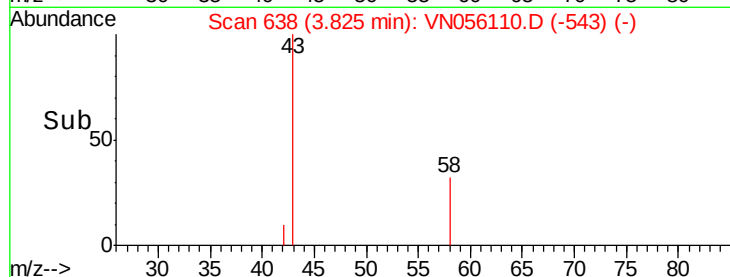
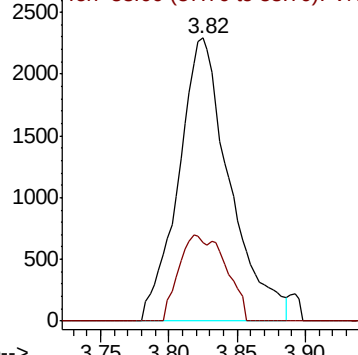
43 100

58 27.6 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#17

Carbon Disulfide

Concen: 0.512 ug/l

RT: 4.04 min Scan# 705

Delta R.T. -0.00 min

Lab File: VN056110.D

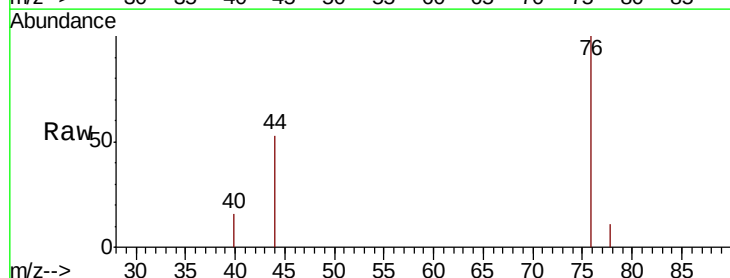
Acq: 7 Jun 2019 20:10

Tgt Ion: 76 Resp: 3741

Ion Ratio Lower Upper

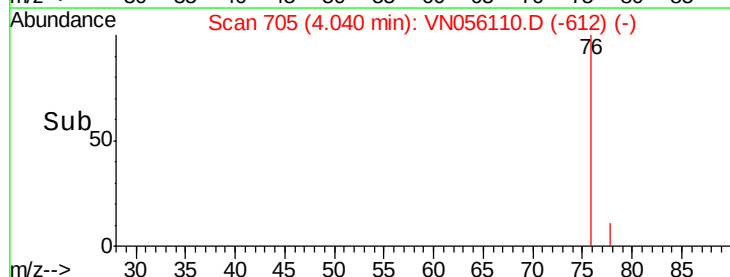
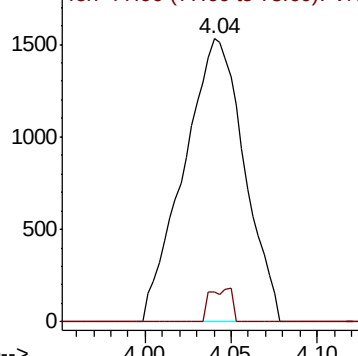
76 100

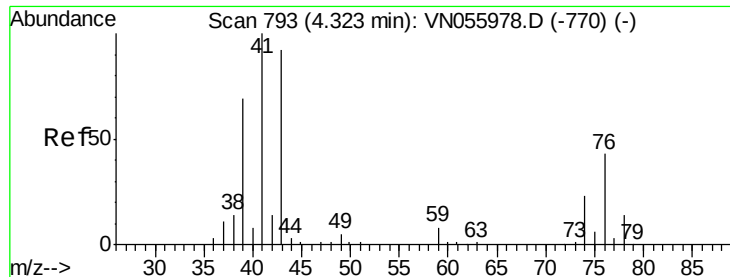
78 10.6 7.4 11.2



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

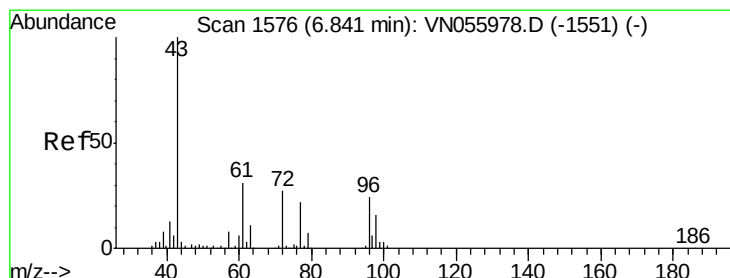
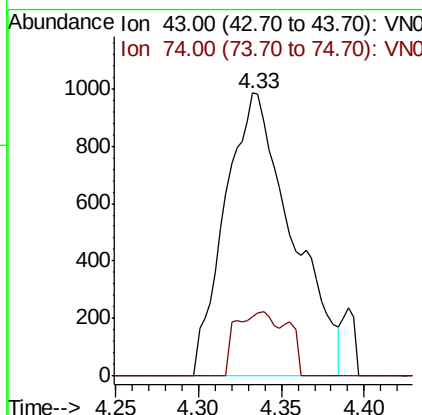
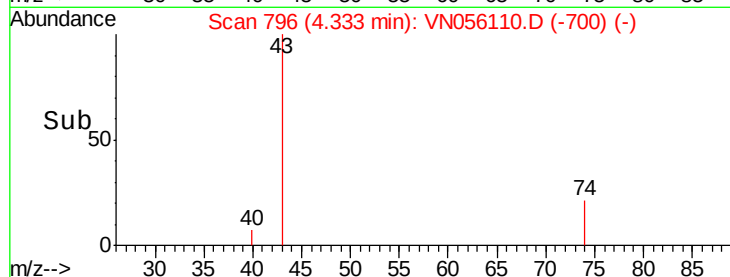
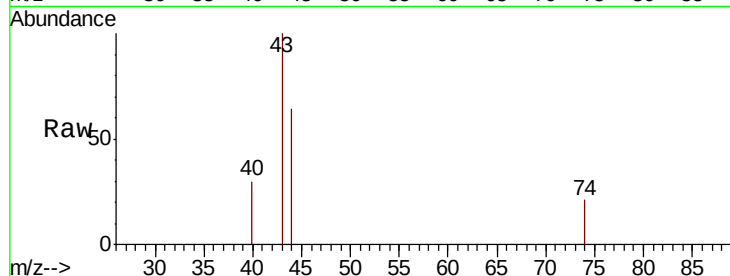




#18
Methyl Acetate
Concen: 0.238 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN056110.D
Acq: 7 Jun 2019 20:10

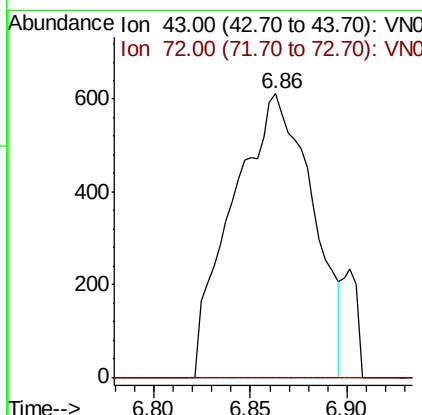
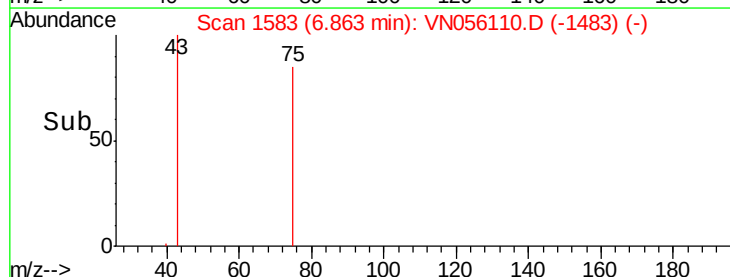
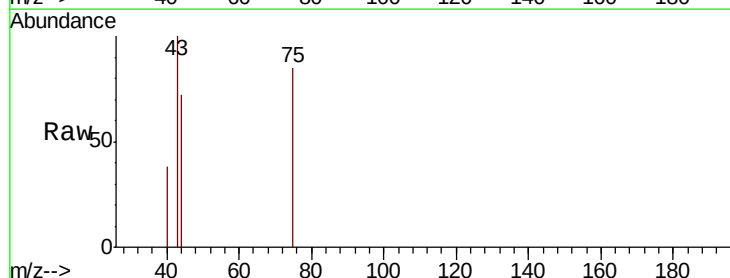
Instrument :
MSVOA_N
ClientSampleId :
LF015RW009-190604

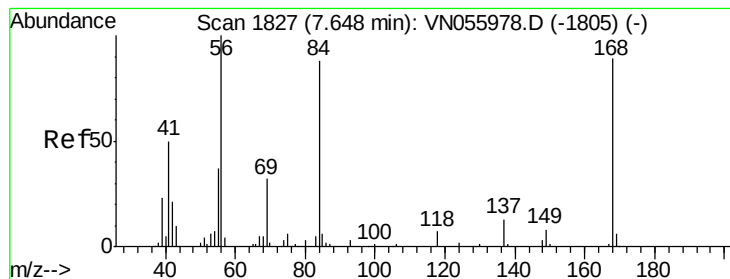
Tot Ion: 43 Resp: 2761
Ion Ratio Lower Upper
43 100
74 13.7 19.3 28.9#



#25
2-Butanone
Concen: 0.803 ug/l
RT: 6.86 min Scan# 1583
Delta R.T. 0.02 min
Lab File: VN056110.D
Acq: 7 Jun 2019 20:10

Tgt Ion: 43 Resp: 1753
Ion Ratio Lower Upper
43 100
72 0.0 21.9 32.9#





#31

Cyclohexane

Concen: 0.864 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN056110.D

Acq: 7 Jun 2019 20:10

Instrument :

MSVOA_N

ClientSampleId :

LF015RW009-190604

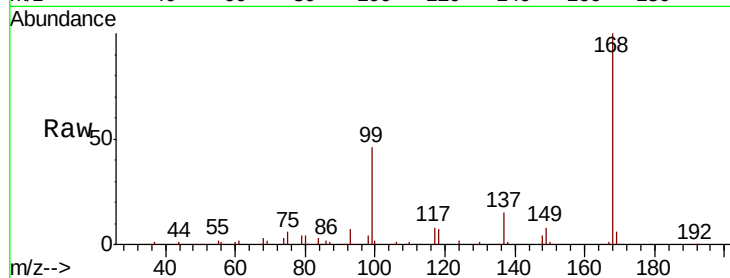
Tot Ion: 56 Resp: 4950

Ion Ratio Lower Upper

56 100

69 167.6 25.6 38.4#

84 178.1 67.4 101.0#

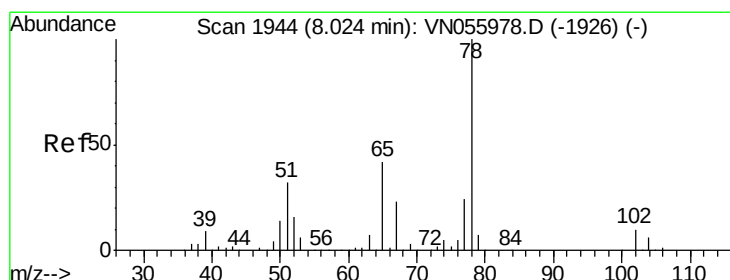
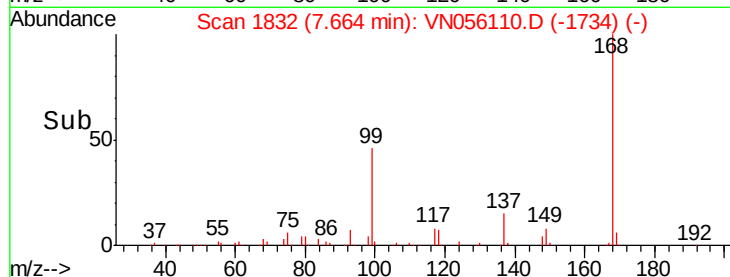
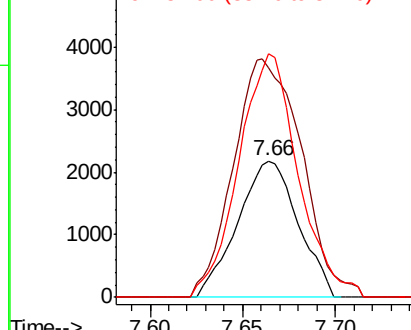


Abundance

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: 52.364 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN056110.D

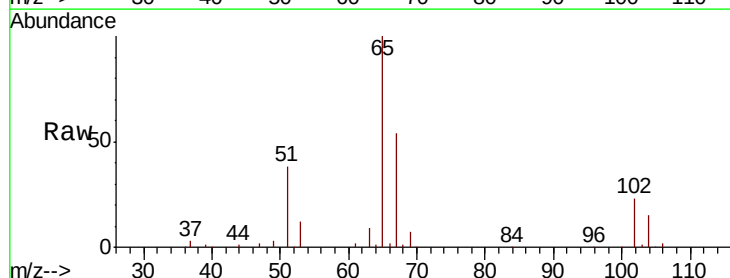
Acq: 7 Jun 2019 20:10

Tgt Ion: 65 Resp: 189094

Ion Ratio Lower Upper

65 100

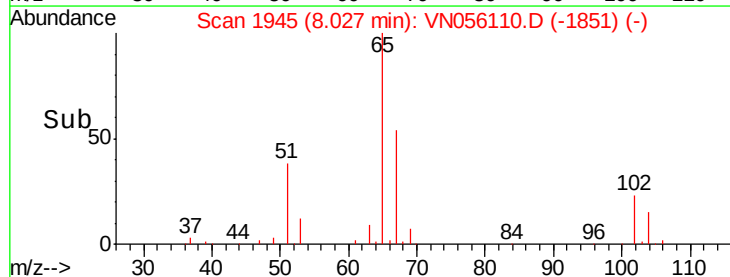
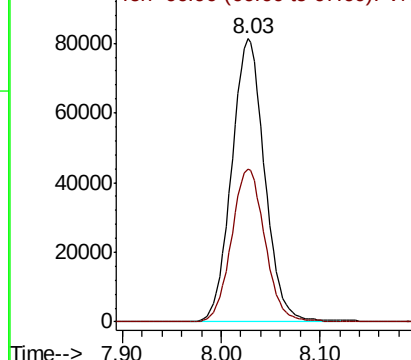
67 54.7 0.0 109.2

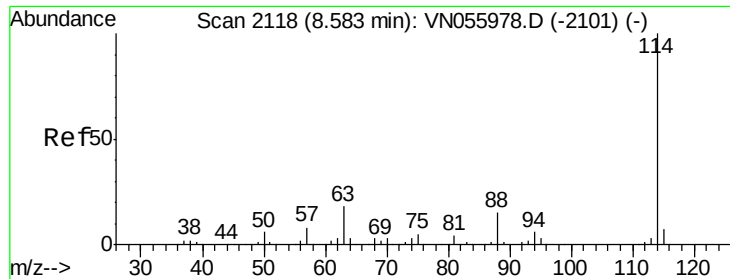


Abundance

Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

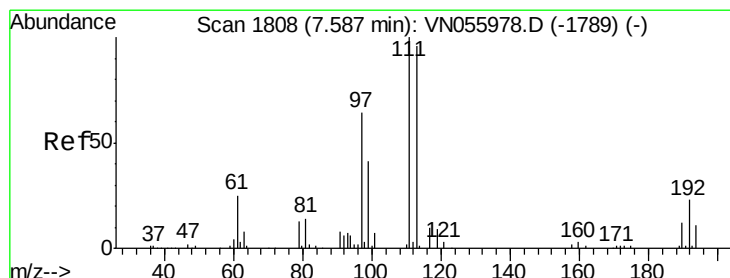
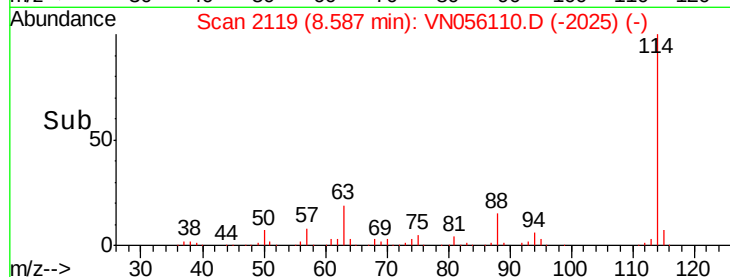
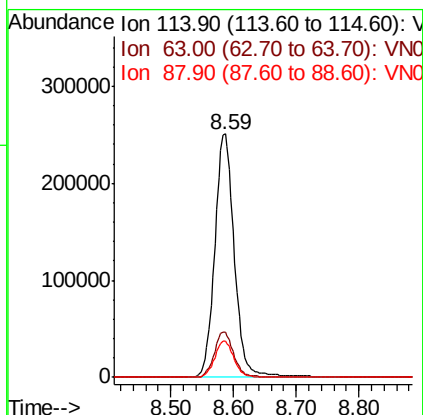
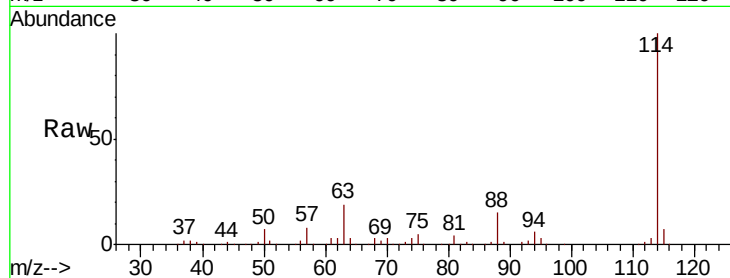




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. 0.00 min
Lab File: VN056110.D
Acq: 7 Jun 2019 20:10

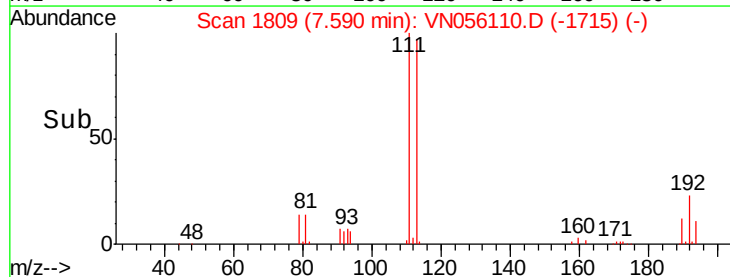
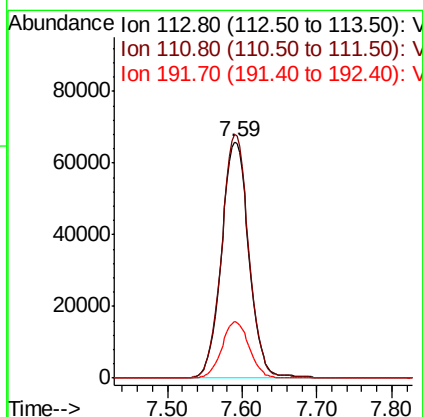
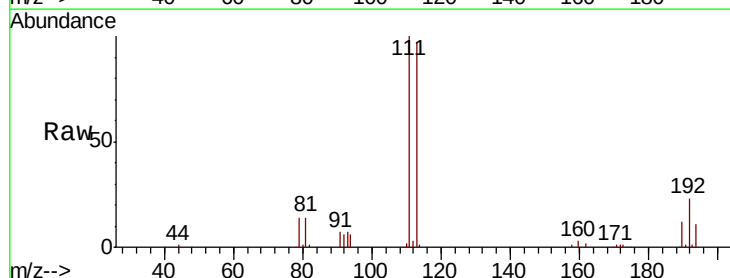
Instrument :
MSVOA_N
ClientSampleId :
LF015RW009-190604

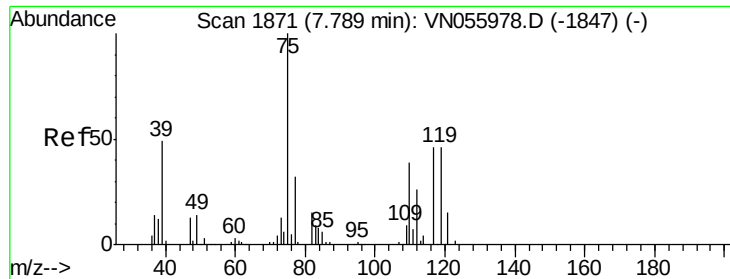
Tot Ion:114 Resp: 543957
Ion Ratio Lower Upper
114 100
63 18.5 0.0 39.2
88 14.7 0.0 31.0



#35
Dibromofluoromethane
Concen: 50.205 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN056110.D
Acq: 7 Jun 2019 20:10

Tgt Ion:113 Resp: 167553
Ion Ratio Lower Upper
113 100
111 101.8 81.9 122.9
192 23.8 19.5 29.3

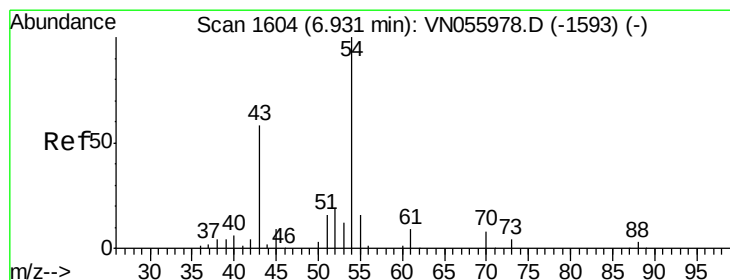
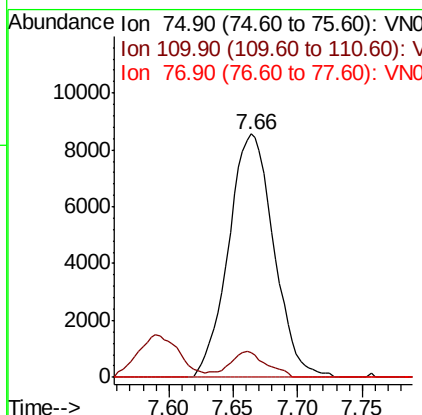
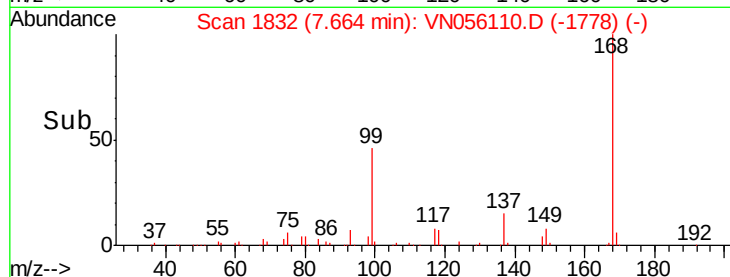
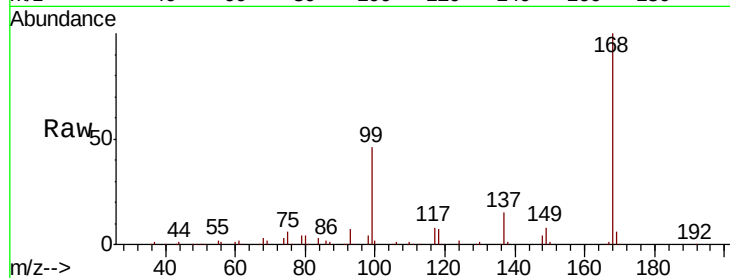




#36
 1,1-Dichloropropene
 Concen: 4.471 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056110.D
 Acq: 7 Jun 2019 20:10

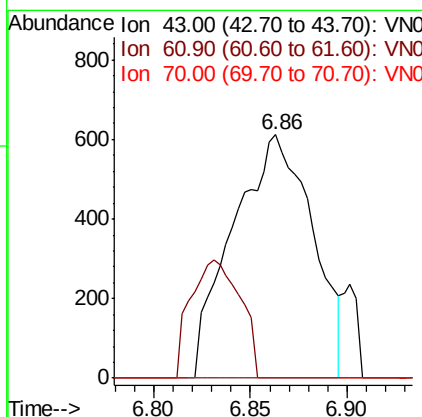
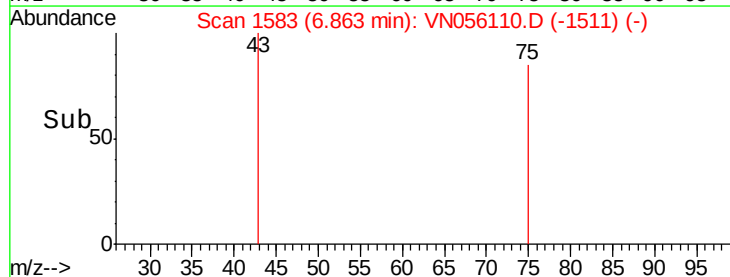
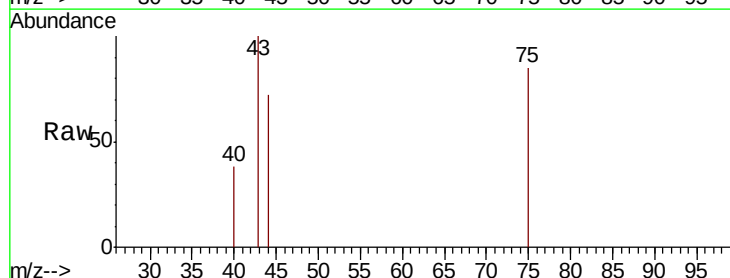
Instrument :
 MSVOA_N
 ClientSampleId :
 LF015RW009-190604

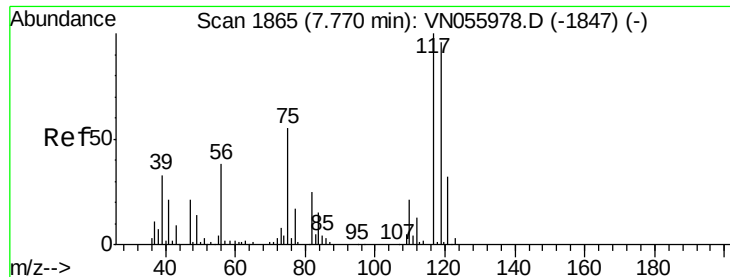
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.6	19.0	57.0#
77	0.0	25.1	37.7#



#37
 Ethyl Acetate
 Concen: 0.421 ug/l
 RT: 6.86 min Scan# 1583
 Delta R.T. -0.07 min
 Lab File: VN056110.D
 Acq: 7 Jun 2019 20:10

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	12.2	18.2#
70	0.0	8.9	13.3#





#38

Carbon Tetrachloride

Concen: 6.779 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN056110.D

Acq: 7 Jun 2019 20:10

Instrument :

MSVOA_N

ClientSampleId :

LF015RW009-190604

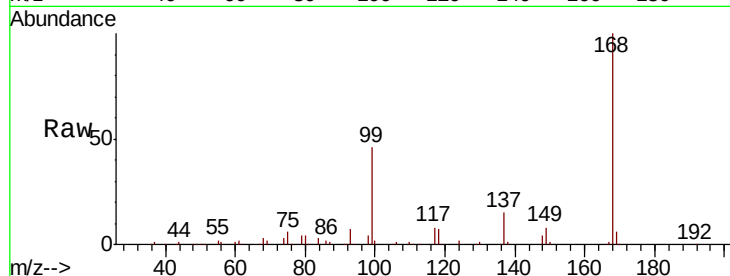
Tot Ion:117 Resp: 29231

Ion Ratio Lower Upper

117 100

119 3.7 79.0 118.6#

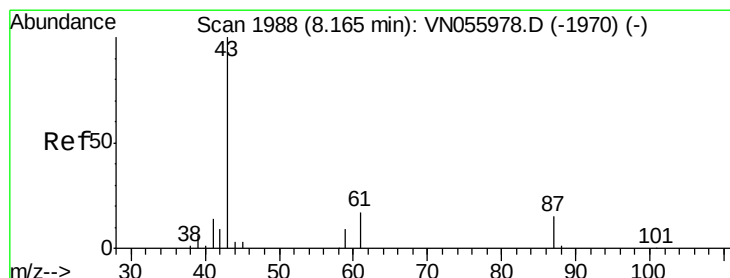
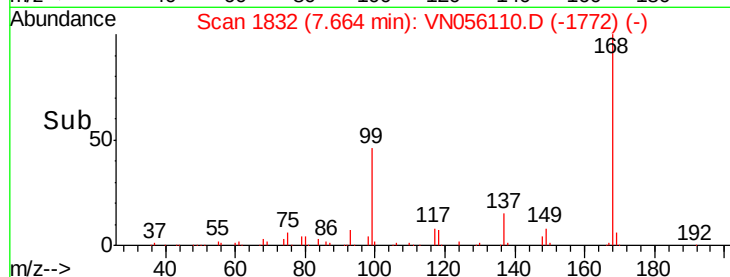
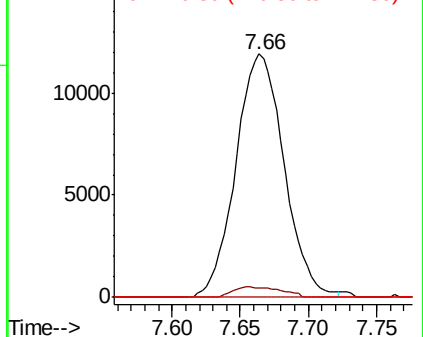
121 0.0 24.7 37.1#



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



#43

Isopropyl Acetate

Concen: 0.397 ug/l

RT: 8.30 min Scan# 2030

Delta R.T. 0.13 min

Lab File: VN056110.D

Acq: 7 Jun 2019 20:10

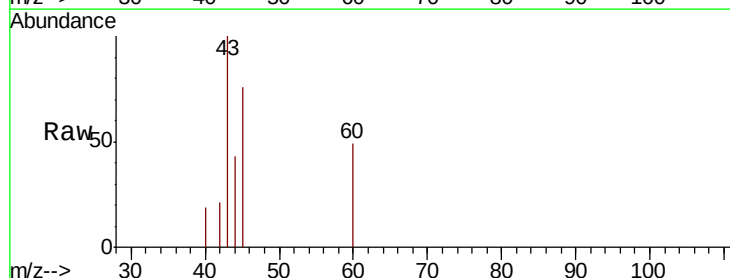
Tgt Ion: 43 Resp: 2680

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

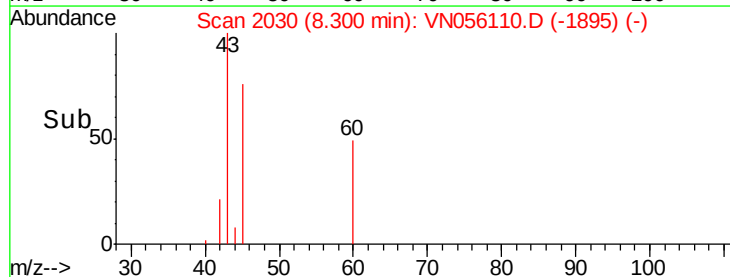
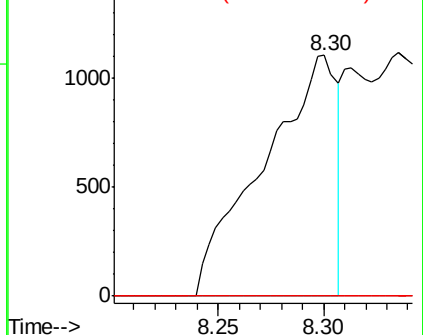
87 0.0 11.4 17.2#

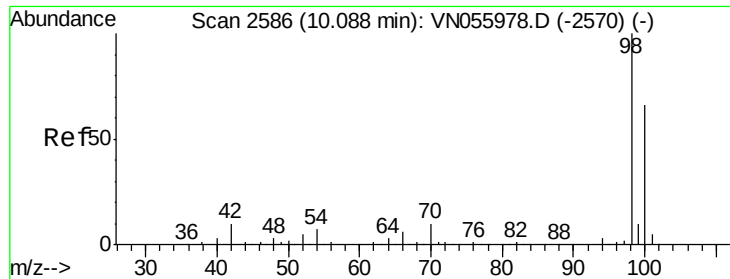


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#50

Toluene-d8

Concen: 54.204 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056110.D

Acq: 7 Jun 2019 20:10

Instrument :

MSVOA_N

ClientSampleId :

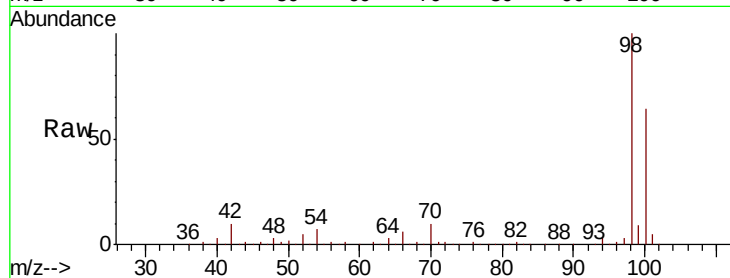
LF015RW009-190604

Tot Ion: 98 Resp: 696101

Ion Ratio Lower Upper

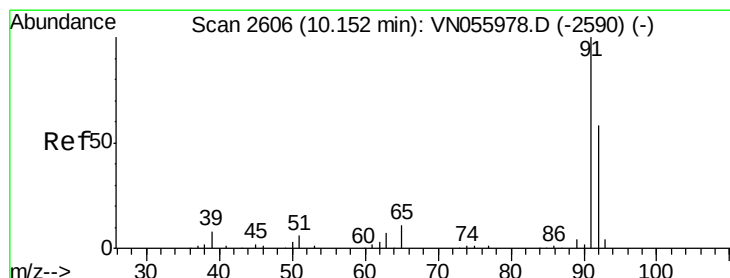
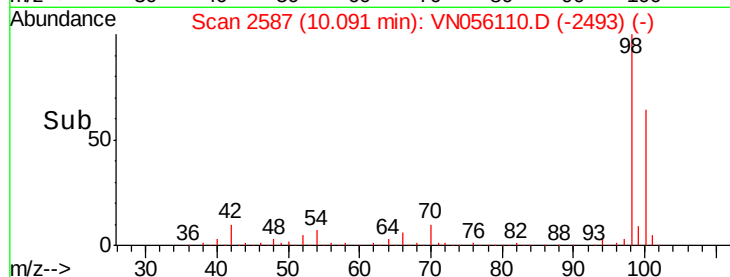
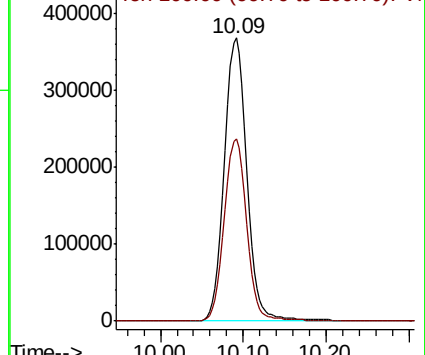
98 100

100 64.5 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#52

Toluene

Concen: 46.771 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN056110.D

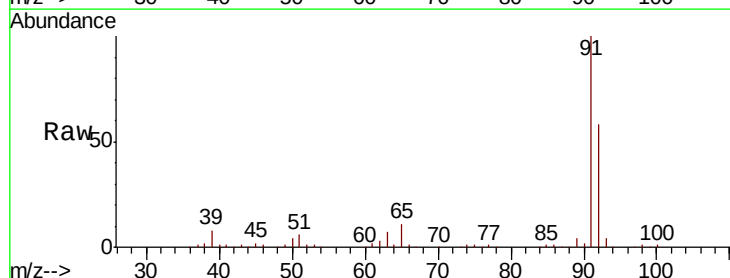
Acq: 7 Jun 2019 20:10

Tgt Ion: 92 Resp: 413448

Ion Ratio Lower Upper

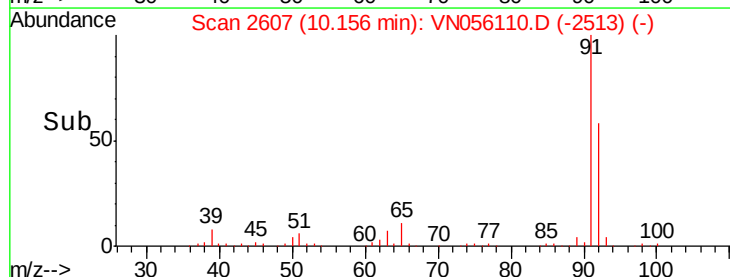
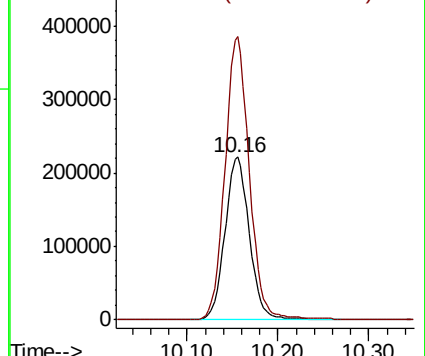
92 100

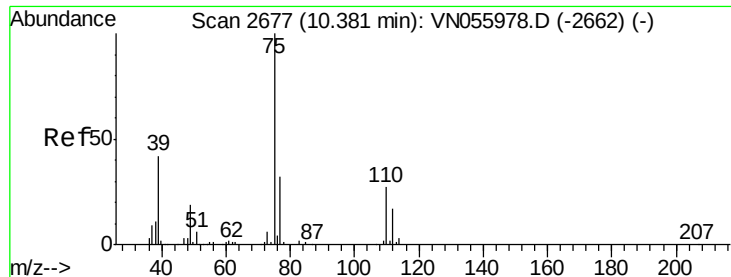
91 173.8 139.4 209.2



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

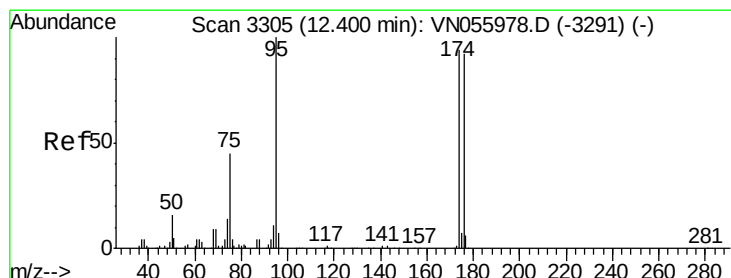
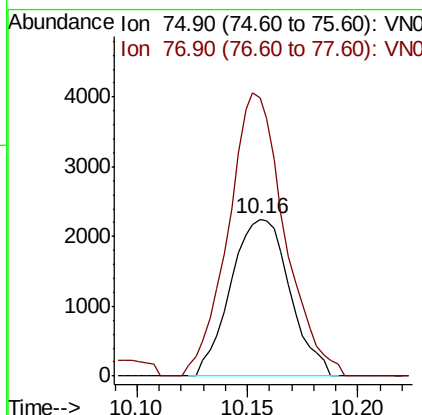
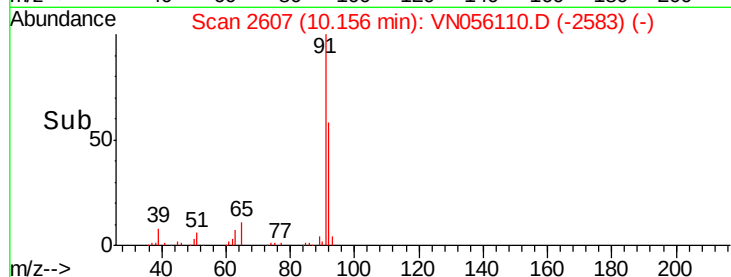
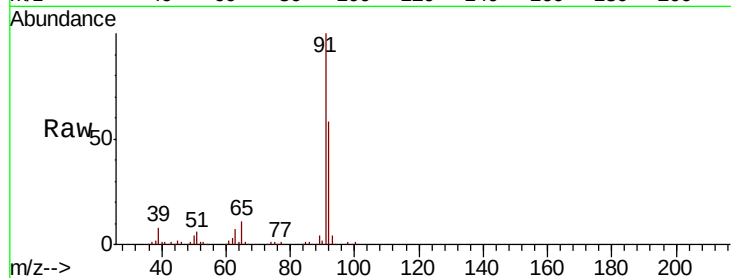




#53
t-1,3-Dichloropropene
Concen: 3.182 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. -0.22 min
Lab File: VN056110.D
Acq: 7 Jun 2019 20:10

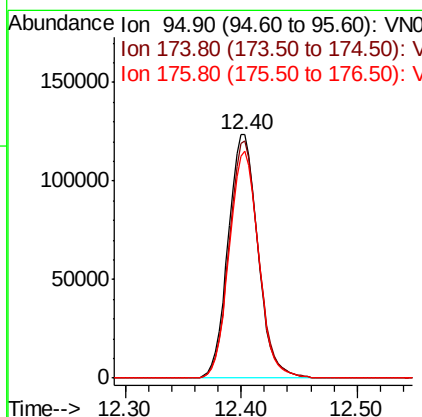
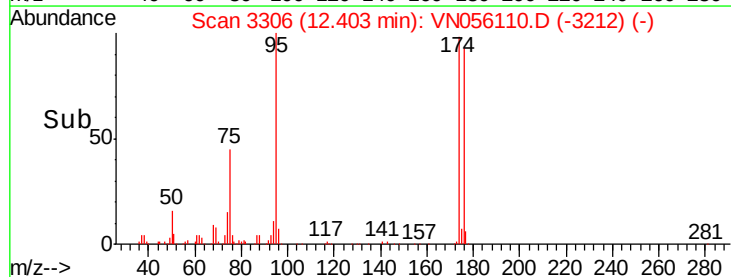
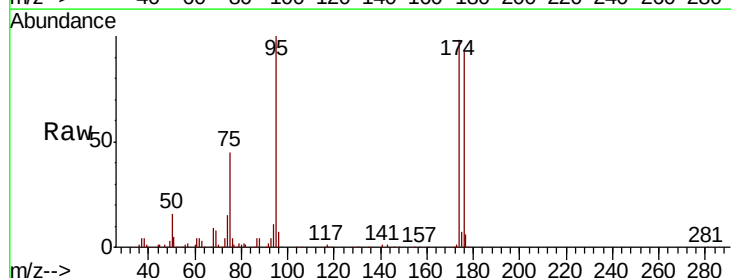
Instrument :
MSVOA_N
ClientSampleId :
LF015RW009-190604

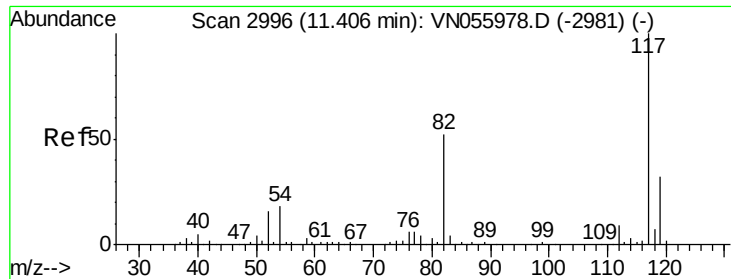
Tot Ion: 75 Resp: 4166
Ion Ratio Lower Upper
75 100
77 170.1 25.8 38.6#



#62
4-Bromofluorobenzene
Concen: 50.049 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN056110.D
Acq: 7 Jun 2019 20:10

Tgt Ion: 95 Resp: 218578
Ion Ratio Lower Upper
95 100
174 96.0 0.0 191.0
176 92.4 0.0 185.2

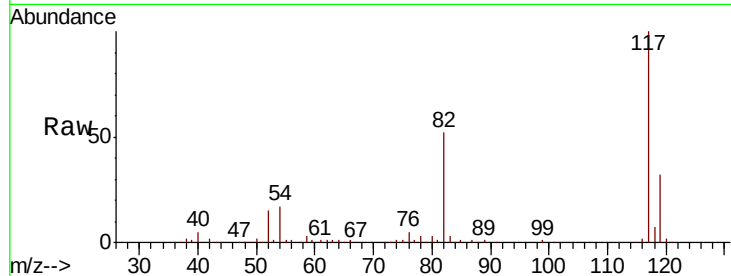




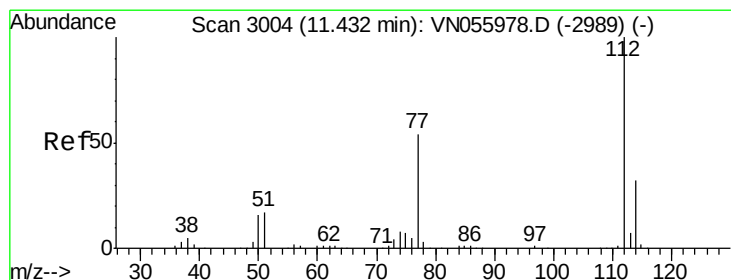
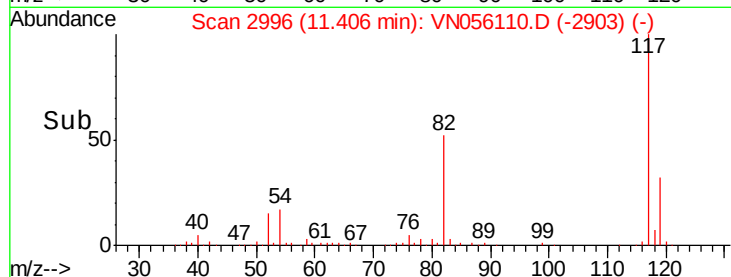
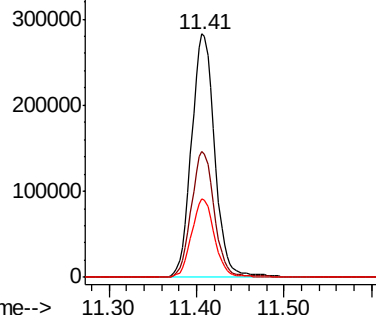
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056110.D
Acq: 7 Jun 2019 20:10

Instrument :
MSVOA_N
ClientSampleId :
LF015RW009-190604

Tot Ion:117 Resp: 520790
Ion Ratio Lower Upper
117 100
82 51.9 41.8 62.8
119 32.2 25.4 38.0

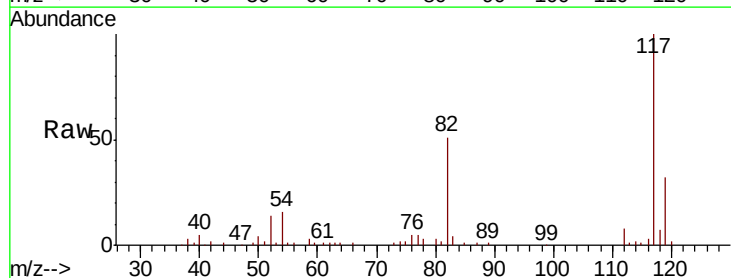


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

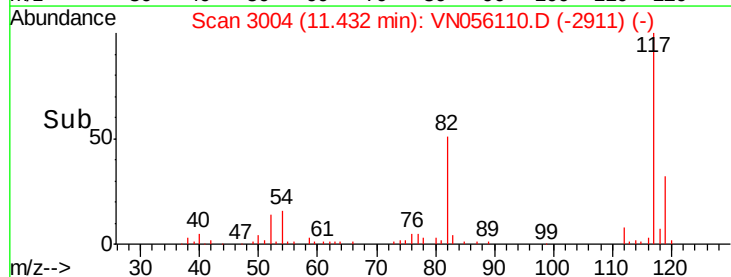
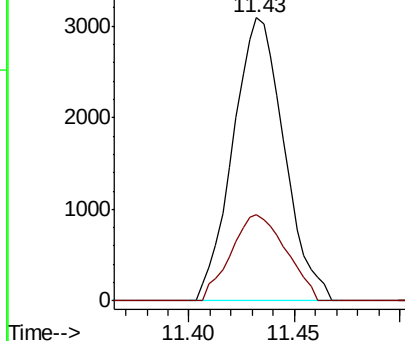


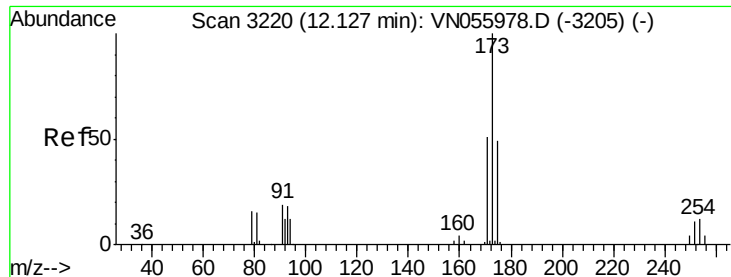
#65
Chlorobenzene
Concen: 0.504 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN056110.D
Acq: 7 Jun 2019 20:10

Tgt Ion:112 Resp: 5219
Ion Ratio Lower Upper
112 100
114 30.3 26.2 39.4



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





#71

Bromoform

Concen: 3.213 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN056110.D

Acq: 7 Jun 2019 20:10

Instrument :

MSVOA_N

ClientSampleId :

LF015RW009-190604

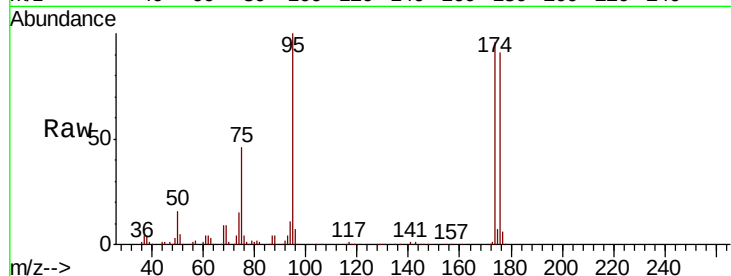
Tot Ion:173 Resp: 1497

Ion Ratio Lower Upper

173 100

175 887.4 24.3 72.8#

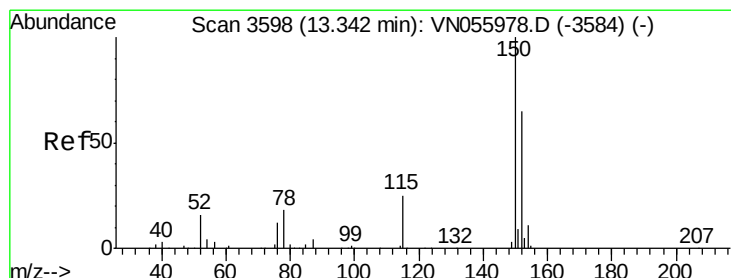
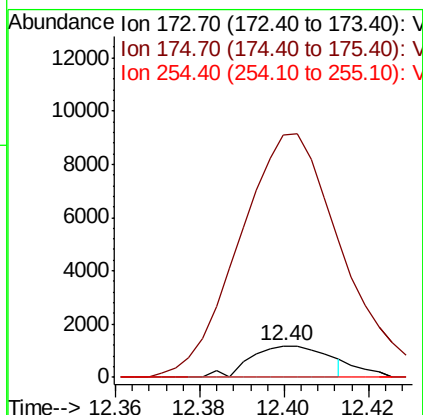
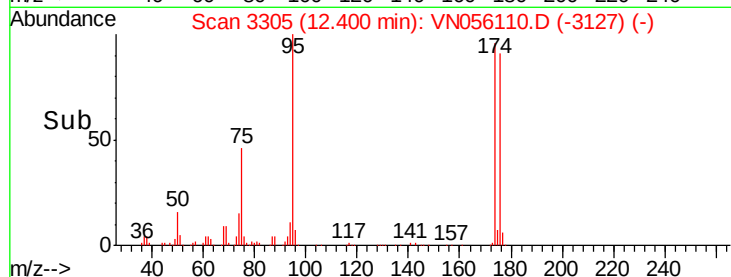
254 0.0 0.0 0.0



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: VN056110.D

Acq: 7 Jun 2019 20:10

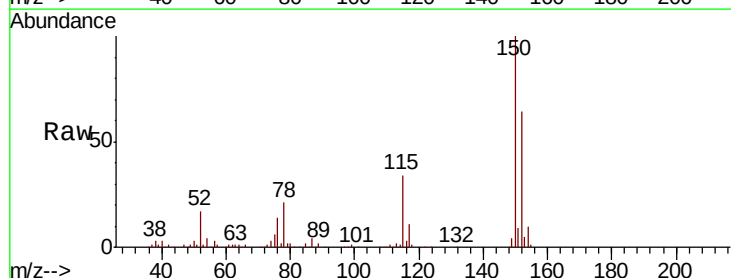
Tgt Ion:152 Resp: 164896

Ion Ratio Lower Upper

152 100

115 53.4 27.0 81.0

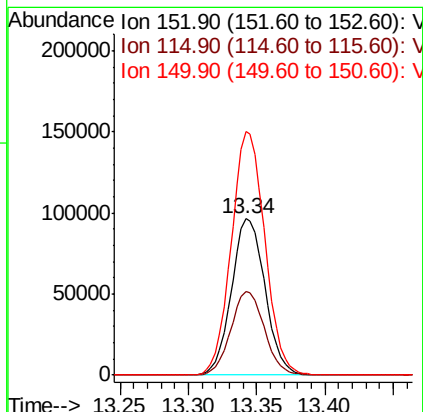
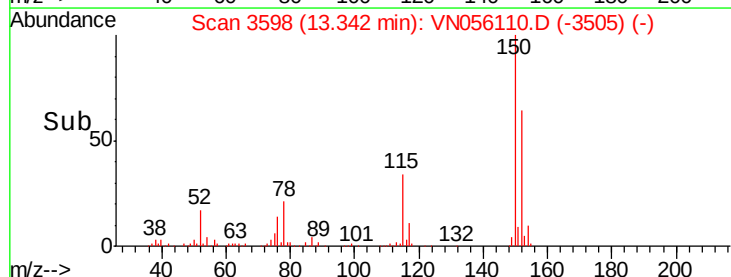
150 155.5 0.0 343.2

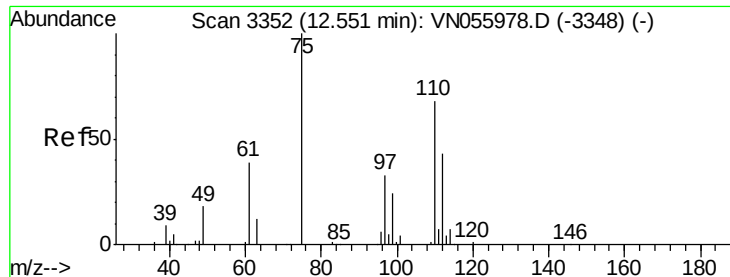


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 32.719 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056110.D

Acq: 7 Jun 2019 20:10

Instrument :

MSVOA_N

ClientSampleId :

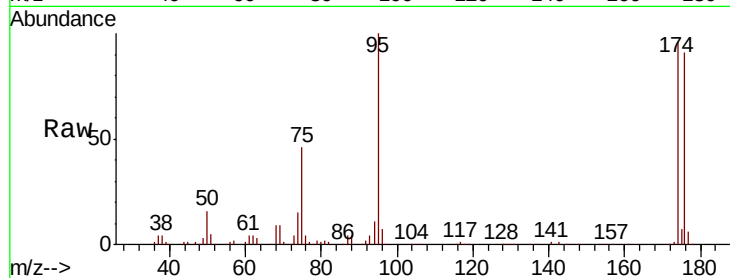
LF015RW009-190604

Tot Ion: 75 Resp: 99276

Ion Ratio Lower Upper

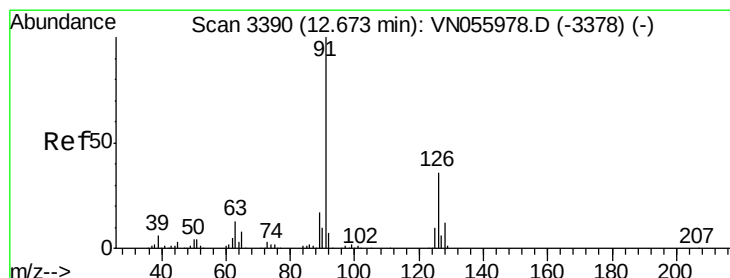
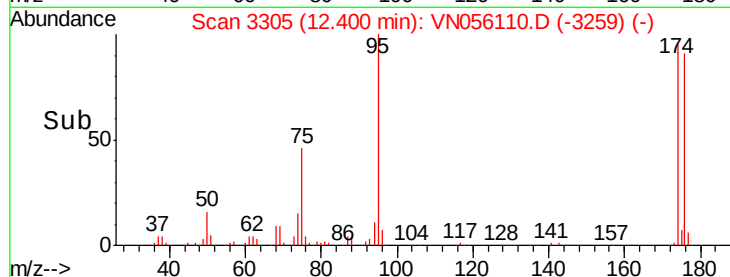
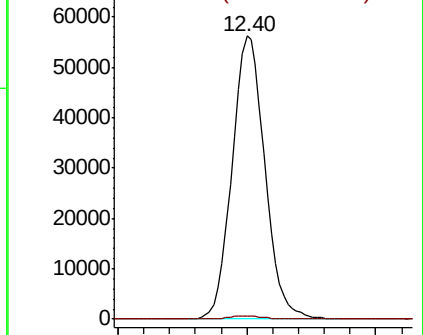
75 100

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: 12.59 min Scan# 3364

Delta R.T. -0.08 min

Lab File: VN056110.D

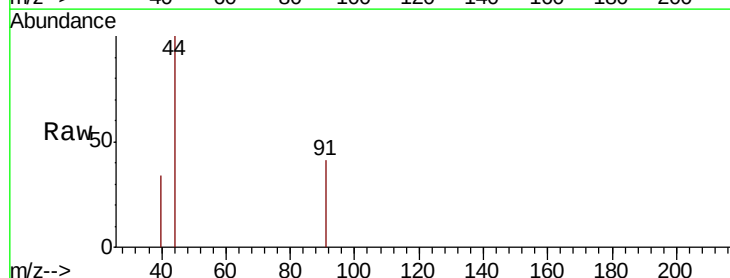
Acq: 7 Jun 2019 20:10

Tgt Ion: 91 Resp: 110

Ion Ratio Lower Upper

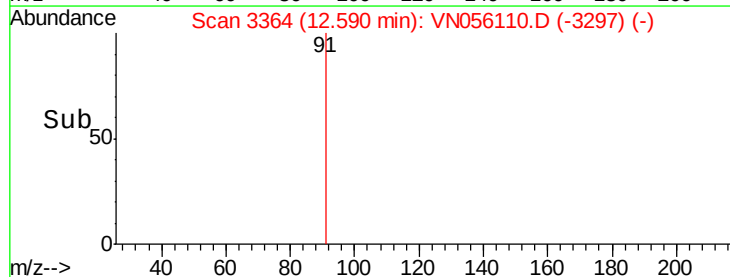
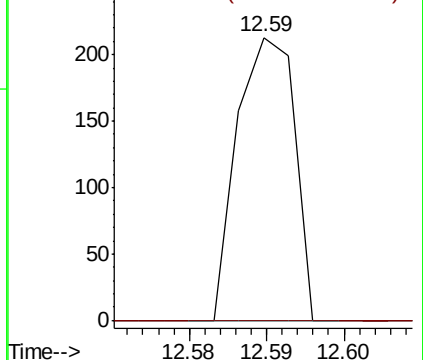
91 100

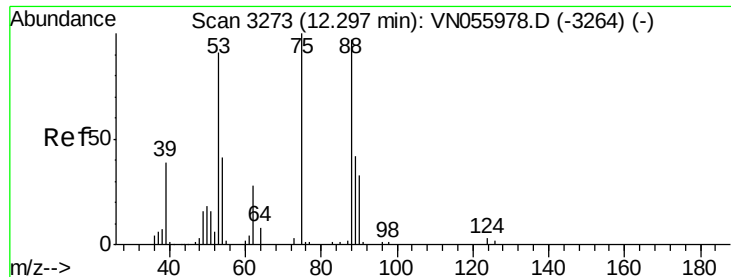
126 0.0 18.1 54.4#



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: 108.962 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056110.D

Acq: 7 Jun 2019 20:10

Instrument :

MSVOA_N

ClientSampleId :

LF015RW009-190604

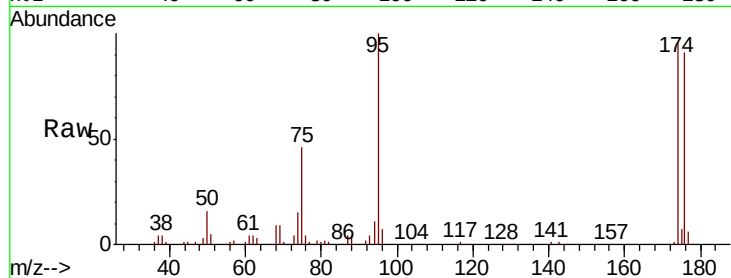
Tot Ion: 75 Resp: 99276

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

