

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060819\
 Data File : VN056104.D
 Acq On : 7 Jun 2019 17:39
 Operator : JC/SP
 Sample : K3223-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 Z1-TB11-190605

Quant Time: Jun 08 05:12:31 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	334145	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	501944	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	470003	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	148136	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	169364	51.05	ug/l	0.00
Spiked Amount						
			Recovery	=	102.10%	
35) Dibromofluoromethane	7.59	113	153189	49.74	ug/l	0.00
Spiked Amount						
			Recovery	=	99.48%	
50) Toluene-d8	10.09	98	629735	53.14	ug/l	0.00
Spiked Amount						
			Recovery	=	106.28%	
62) 4-Bromofluorobenzene	12.40	95	196286	48.71	ug/l	0.00
Spiked Amount						
			Recovery	=	97.42%	

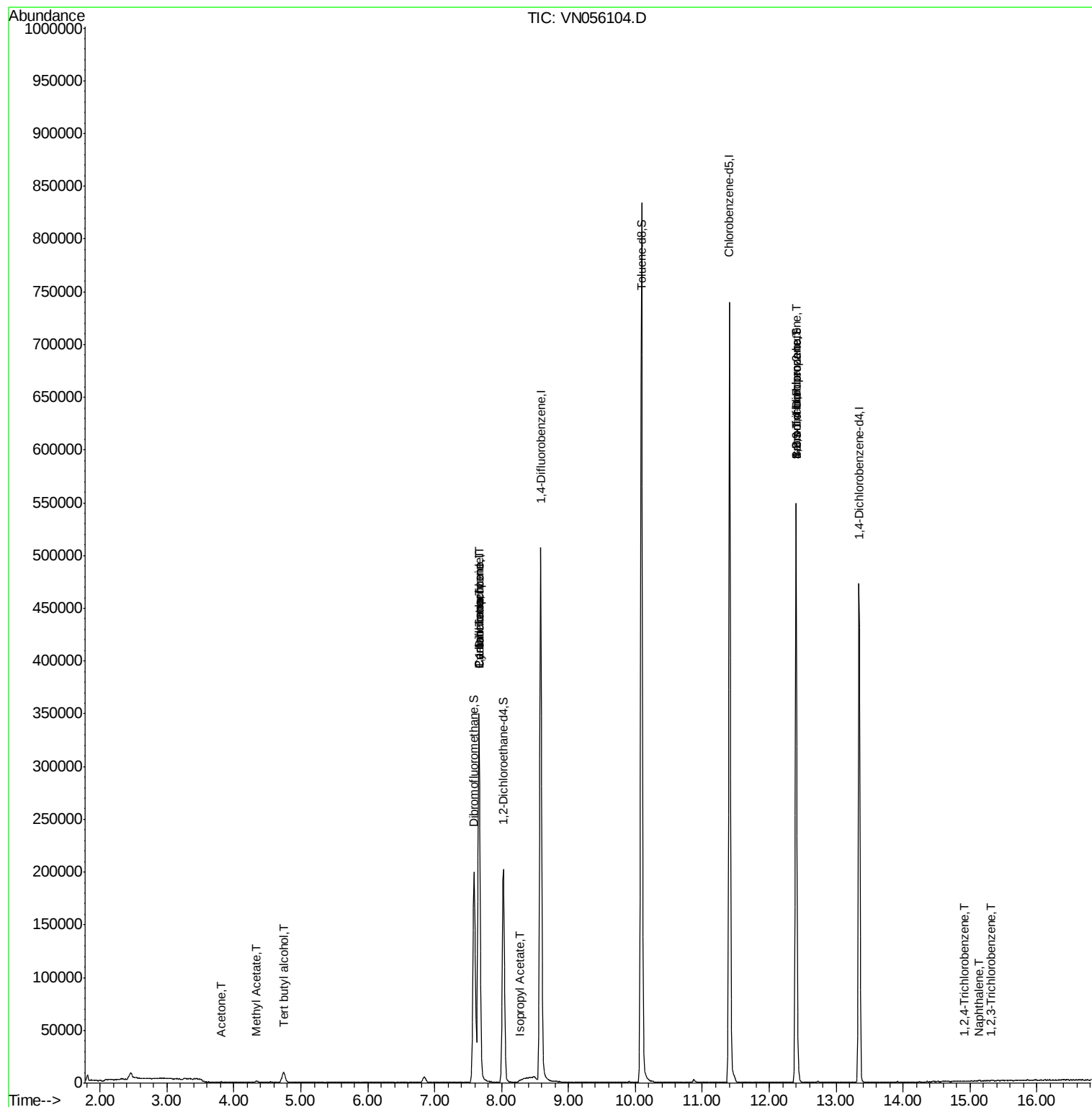
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	9445	16.359	ug/l #	74
16) Acetone	3.82	43	567	0.357	ug/l #	41
18) Methyl Acetate	4.34	43	2686	0.287	ug/l #	66
31) Cyclohexane	7.66	56	4803	0.912	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	18993	4.401	ug/l #	48
38) Carbon Tetrachloride	7.66	117	27177	6.830	ug/l #	14
43) Isopropyl Acetate	8.27	43	1263	0.203	ug/l #	53
71) Bromoform	12.40	173	1422	3.238	ug/l #	1
73) Isopropylbenzene	12.25	105	59	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	87915	32.253	ug/l #	100
79) 2-Chlorotoluene	12.68	91	131	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	87915	107.410	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	94	4.301	ug/l #	12
95) Naphthalene	15.13	128	438	3.908	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	143	3.079	ug/l #	53

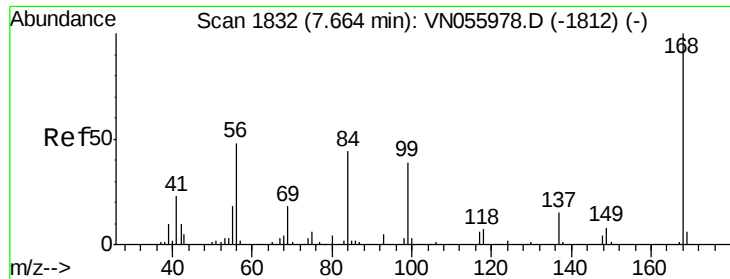
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN056104.D

Acq: 7 Jun 2019 17:39

Instrument :

MSVOA_N

ClientSampleId :

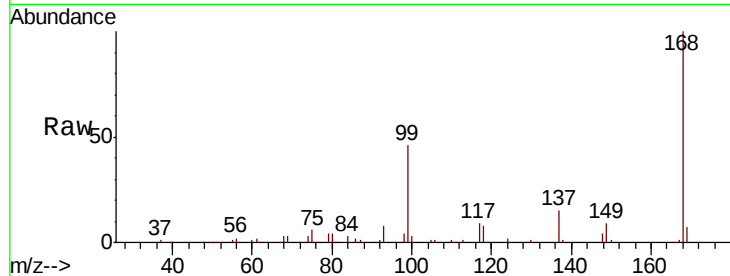
Z1-TB11-190605

Tot Ion:168 Resp: 334145

Ion Ratio Lower Upper

168 100

99 45.8 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): VN055978.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN055978.D (-1812) (-)

7.66

150000

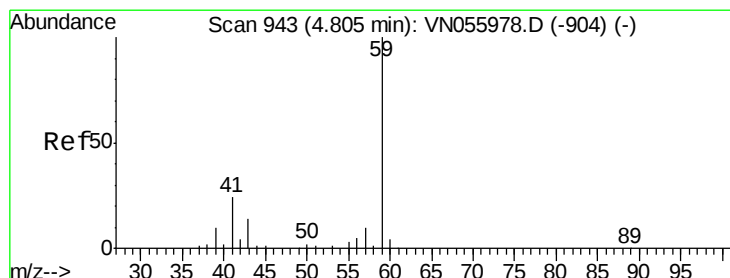
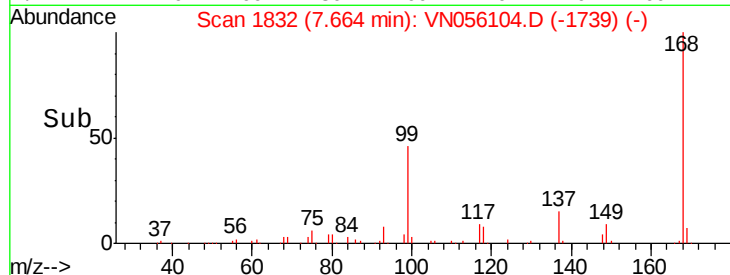
100000

50000

0

7.50 7.60 7.70 7.80

Time-->



#11

Tert butyl alcohol

Concen: 16.359 ug/l

RT: 4.74 min Scan# 924

Delta R.T. -0.06 min

Lab File: VN056104.D

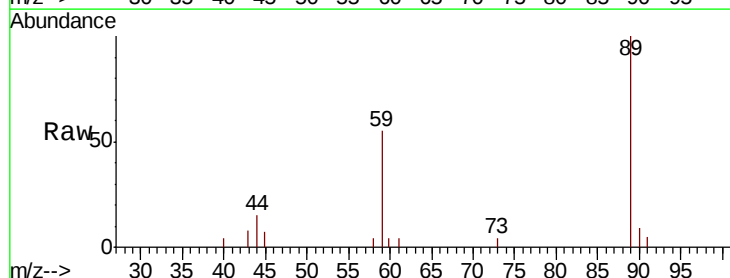
Acq: 7 Jun 2019 17:39

Tgt Ion: 59 Resp: 9445

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN055978.D (-904) (-)

Ion 57.00 (56.70 to 57.70): VN055978.D (-904) (-)

4.74

3000

2500

2000

1500

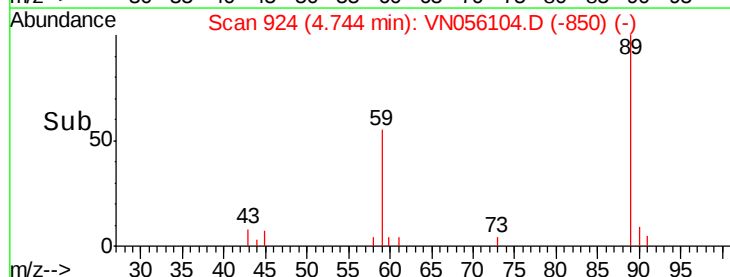
1000

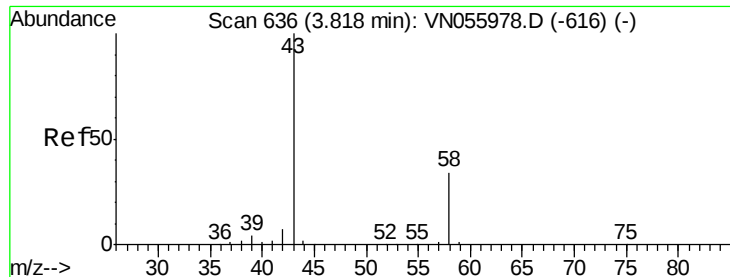
500

0

4.65 4.70 4.75 4.80 4.85

Time-->





#16

Acetone

Concen: 0.357 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN056104.D

Acq: 7 Jun 2019 17:39

Instrument :

MSVOA_N

ClientSampleId :

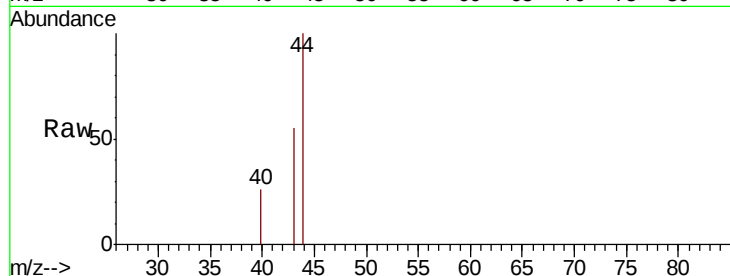
Z1-TB11-190605

Tot Ion: 43 Resp: 567

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

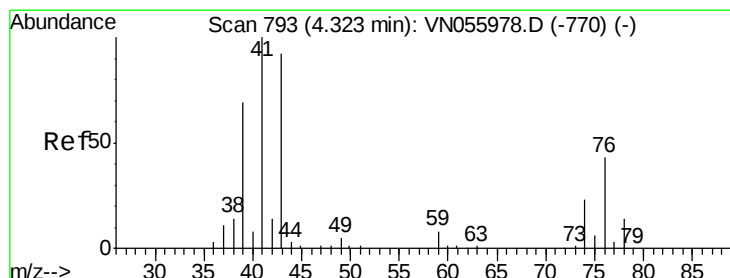
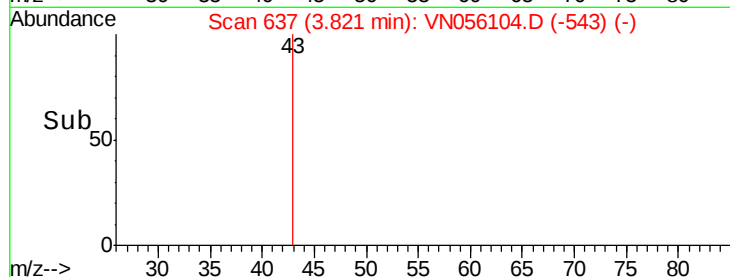
200

100

0

Time-->

3.78 3.80 3.82 3.84



#18

Methyl Acetate

Concen: 0.287 ug/l

RT: 4.34 min Scan# 798

Delta R.T. 0.02 min

Lab File: VN056104.D

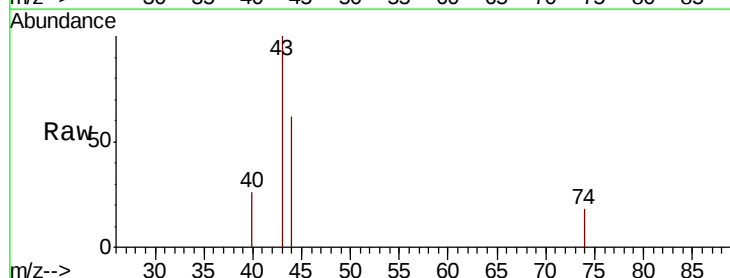
Acq: 7 Jun 2019 17:39

Tgt Ion: 43 Resp: 2686

Ion Ratio Lower Upper

43 100

74 7.2 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.34

1000

800

600

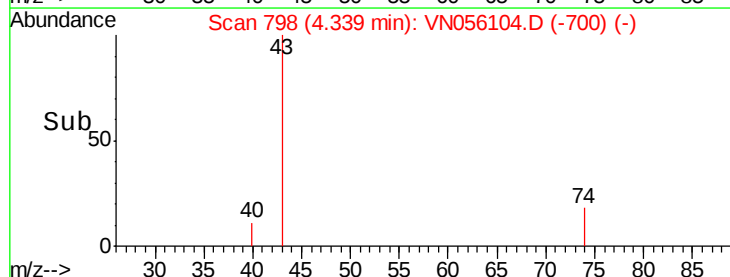
400

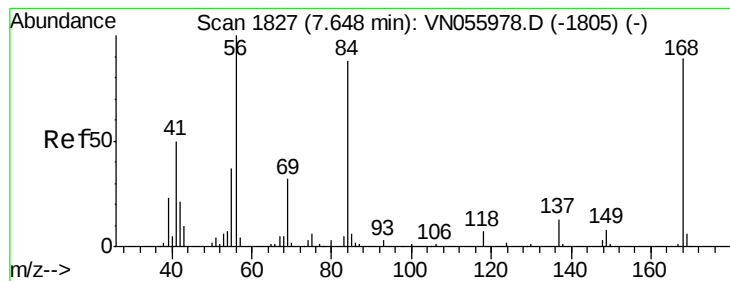
200

0

Time-->

4.25 4.30 4.35 4.40





#31

Cyclohexane

Concen: 0.912 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN056104.D

Acq: 7 Jun 2019 17:39

Instrument :

MSVOA_N

ClientSampleId :

Z1-TB11-190605

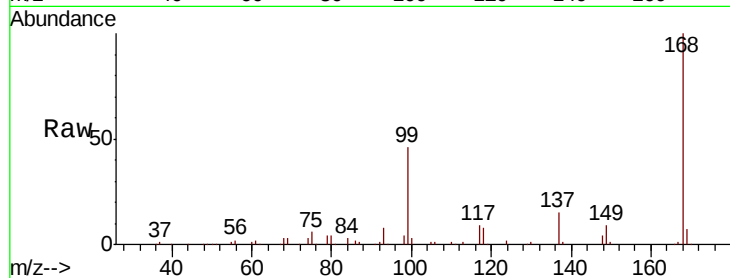
Tot Ion: 56 Resp: 4803

Ion Ratio Lower Upper

56 100

69 183.4 25.6 38.4#

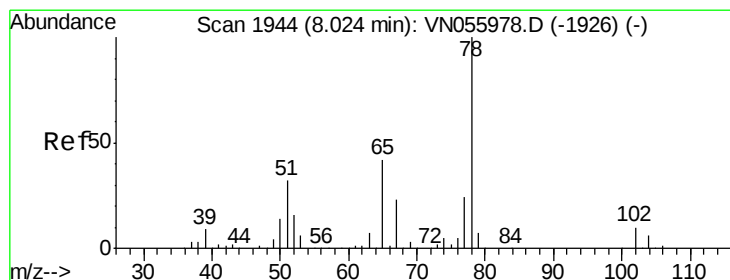
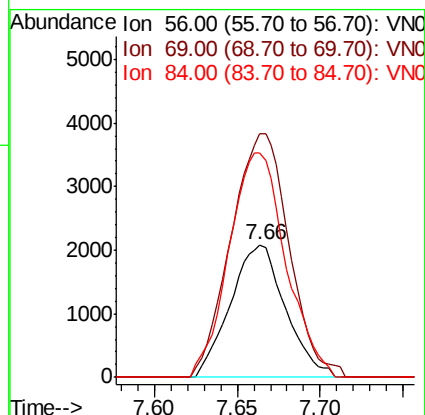
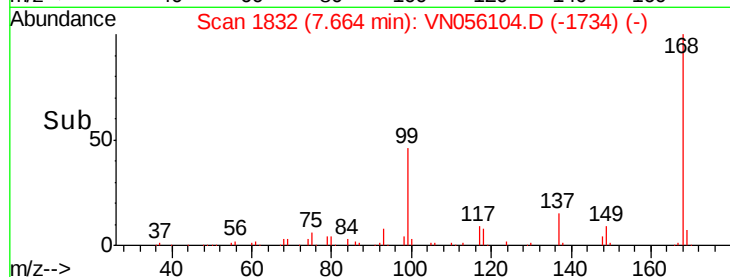
84 169.0 67.4 101.0#



Abundance Ion 56.00 (55.70 to 56.70): VN055978.D (-1805) (-)

Ion 69.00 (68.70 to 69.70): VN055978.D (-1805) (-)

Ion 84.00 (83.70 to 84.70): VN055978.D (-1805) (-)



#33

1,2-Dichloroethane-d4

Concen: 51.047 ug/l

RT: 8.02 min Scan# 1944

Delta R.T. -0.00 min

Lab File: VN056104.D

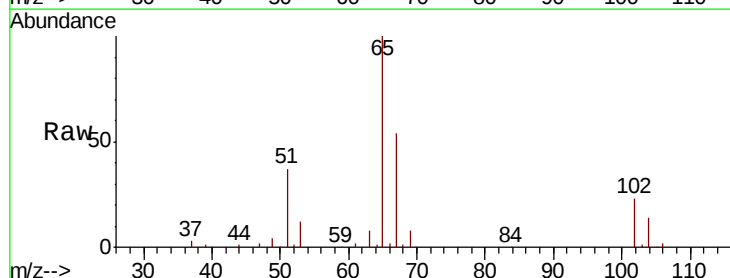
Acq: 7 Jun 2019 17:39

Tgt Ion: 65 Resp: 169364

Ion Ratio Lower Upper

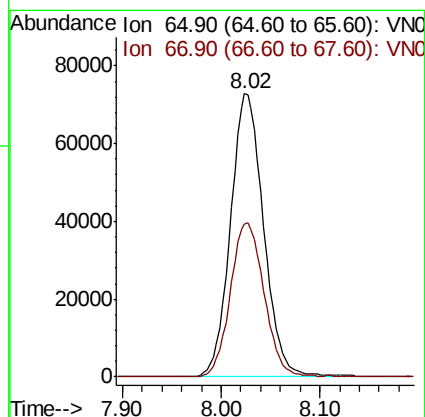
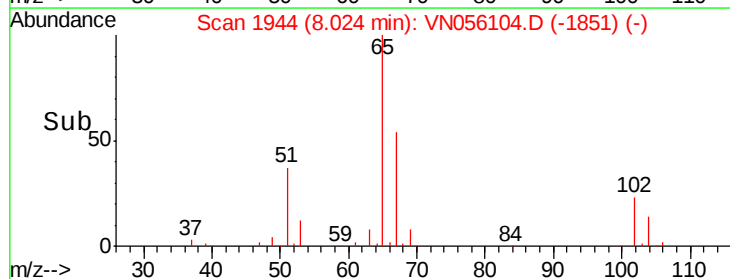
65 100

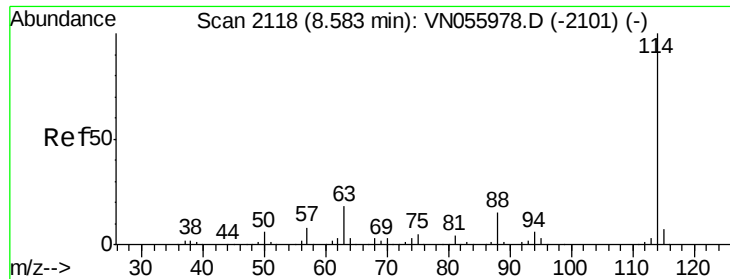
67 55.4 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN055978.D (-1926) (-)

Ion 66.90 (66.60 to 67.60): VN055978.D (-1926) (-)

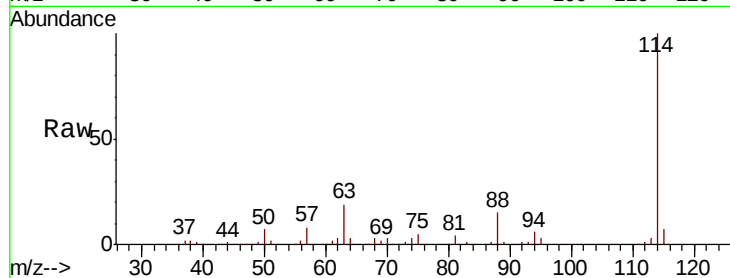




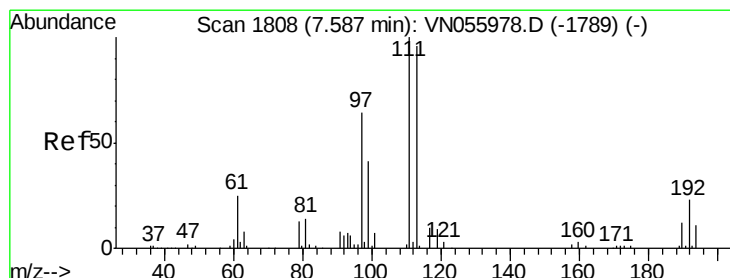
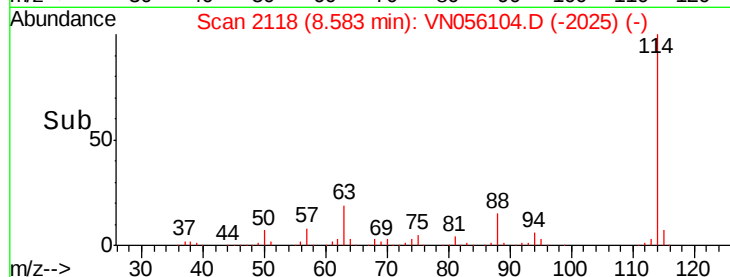
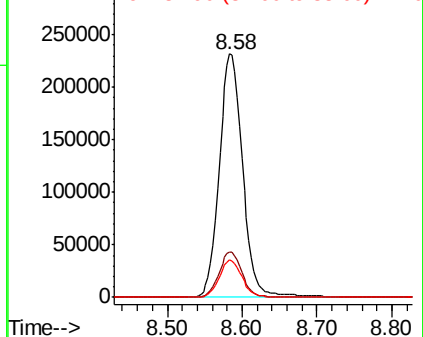
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.58 min Scan# 2118
Delta R.T. -0.00 min
Lab File: VN056104.D
Acq: 7 Jun 2019 17:39

Instrument :
MSVOA_N
ClientSampleId :
Z1-TB11-190605

Tot Ion:114 Resp: 501944
Ion Ratio Lower Upper
114 100
63 18.8 0.0 39.2
88 15.2 0.0 31.0

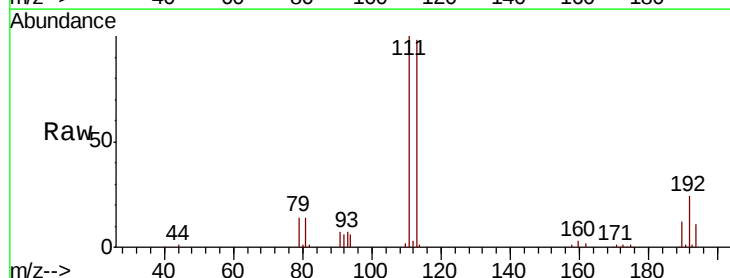


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

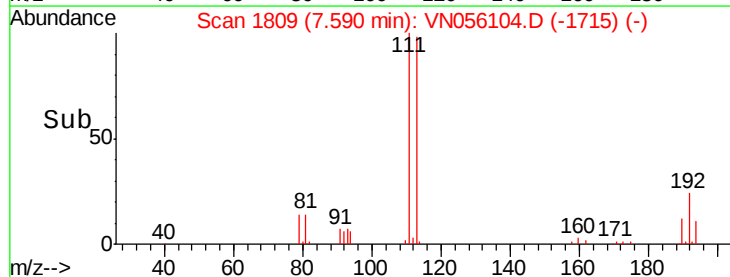
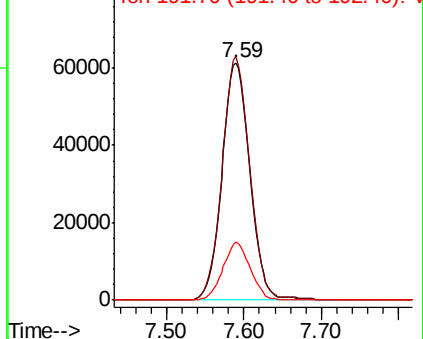


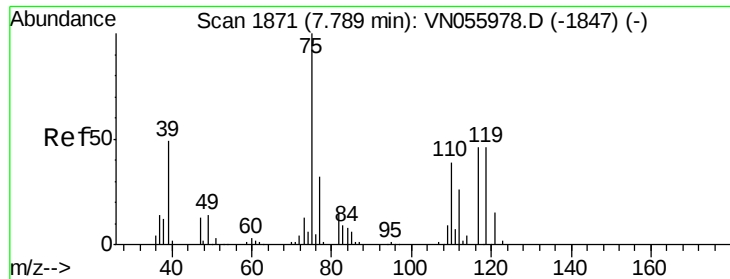
#35
Dibromofluoromethane
Concen: 49.743 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN056104.D
Acq: 7 Jun 2019 17:39

Tgt Ion:113 Resp: 153189
Ion Ratio Lower Upper
113 100
111 101.7 81.9 122.9
192 23.9 19.5 29.3



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

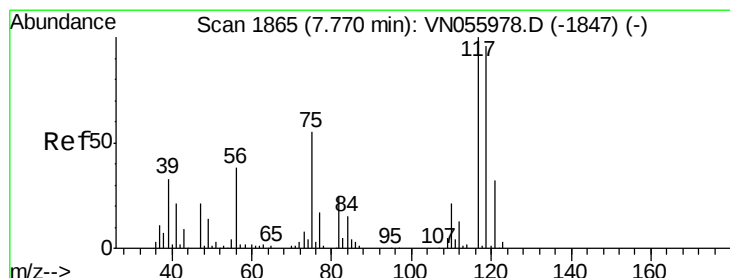
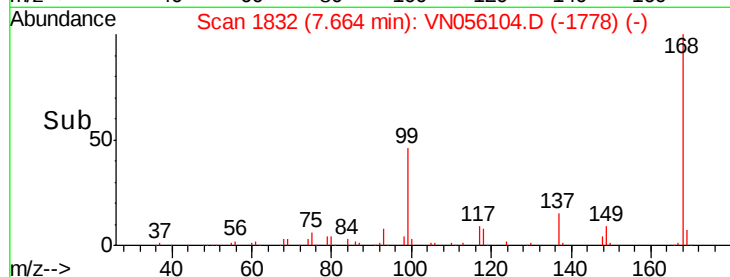
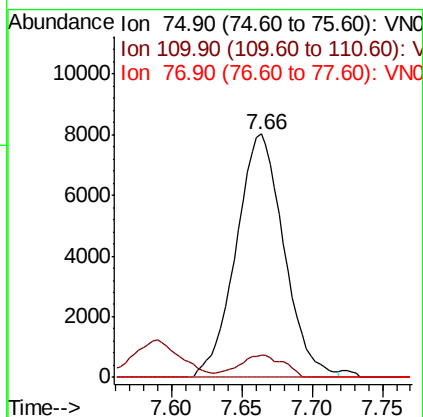
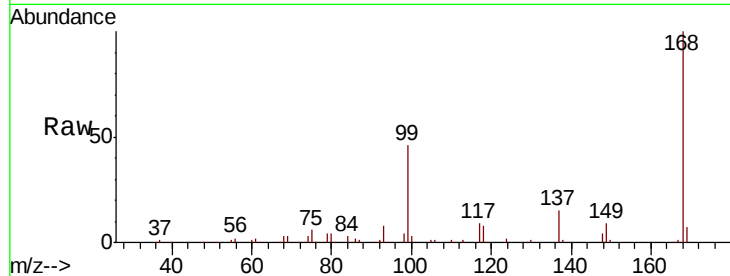




#36
 1,1-Dichloropropene
 Concen: 4.401 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056104.D
 Acq: 7 Jun 2019 17:39

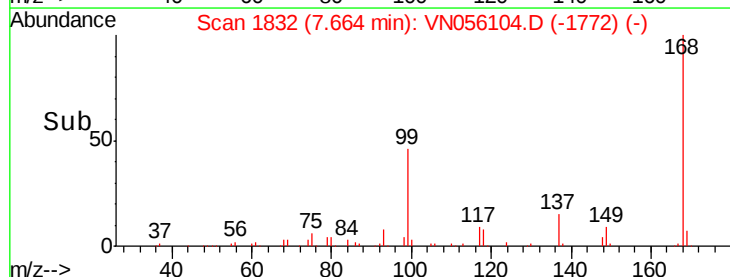
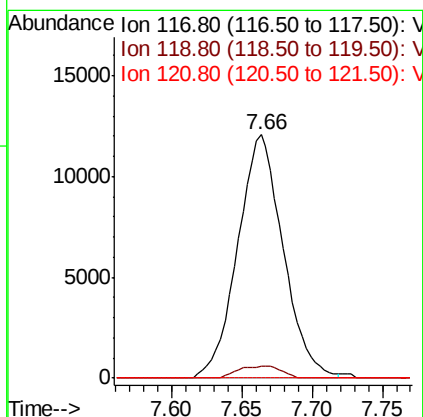
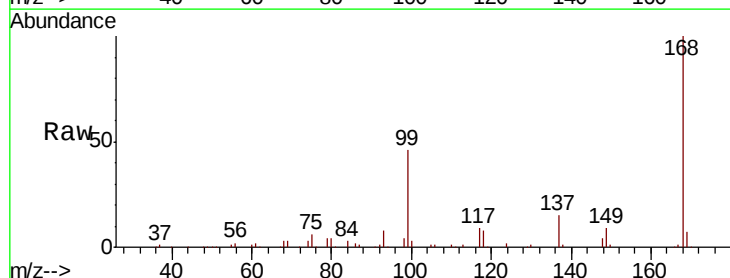
Instrument :
 MSVOA_N
 ClientSampleId :
 Z1-TB11-190605

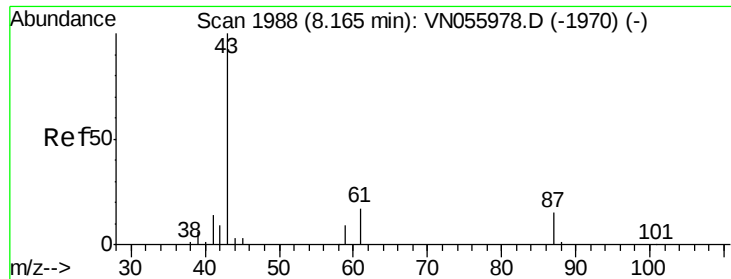
Tot Ion	75	Resp	18993
Ion Ratio	Lower	Upper	
75	100		
110	8.5	19.0	57.0#
77	0.0	25.1	37.7#



#38
 Carbon Tetrachloride
 Concen: 6.830 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN056104.D
 Acq: 7 Jun 2019 17:39

Tgt Ion	117	Resp	27177
Ion Ratio	Lower	Upper	
117	100		
119	4.8	79.0	118.6#
121	0.0	24.7	37.1#





#43

Isopropyl Acetate

Concen: 0.203 ug/l

RT: 8.27 min Scan# 2020

Delta R.T. 0.10 min

Lab File: VN056104.D

Acq: 7 Jun 2019 17:39

Instrument :

MSVOA_N

ClientSampleId :

Z1-TB11-190605

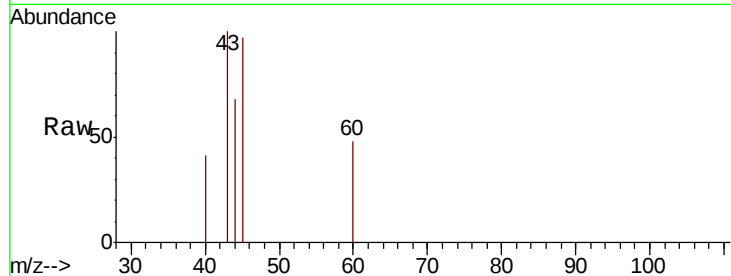
Tot Ion: 43 Resp: 1263

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

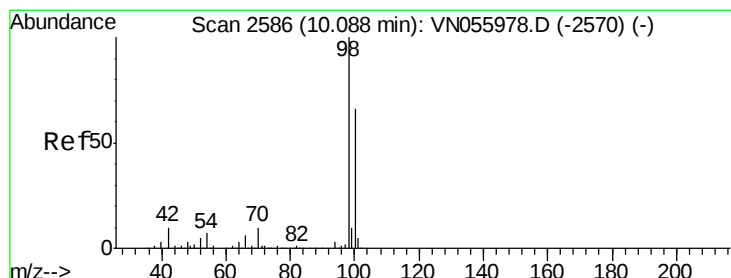
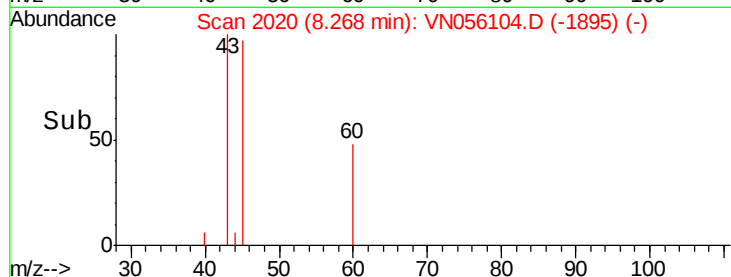
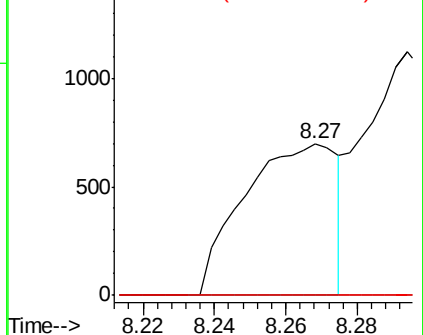
87 0.0 11.4 17.2#



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: 53.141 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056104.D

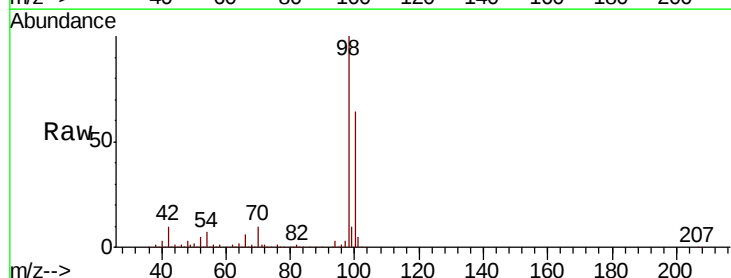
Acq: 7 Jun 2019 17:39

Tgt Ion: 98 Resp: 629735

Ion Ratio Lower Upper

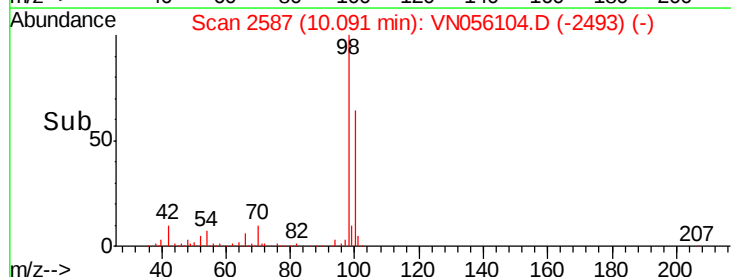
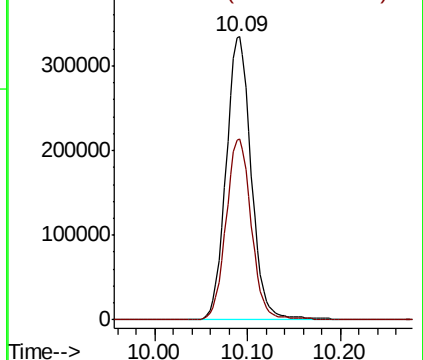
98 100

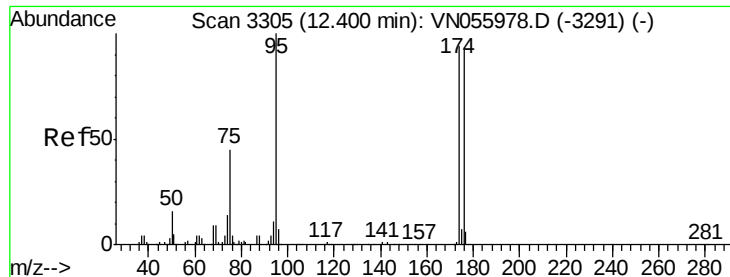
100 64.4 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#62

4-Bromofluorobenzene

Concen: 48.706 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056104.D

Acq: 7 Jun 2019 17:39

Instrument :

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ClientSampleId :

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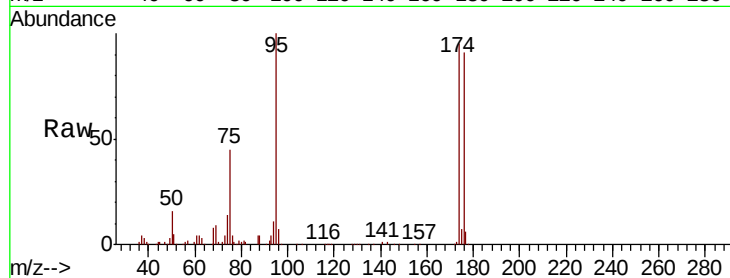
Tot Ion: 95 Resp: 196286

Ion Ratio Lower Upper

95 100

174 95.9 0.0 191.0

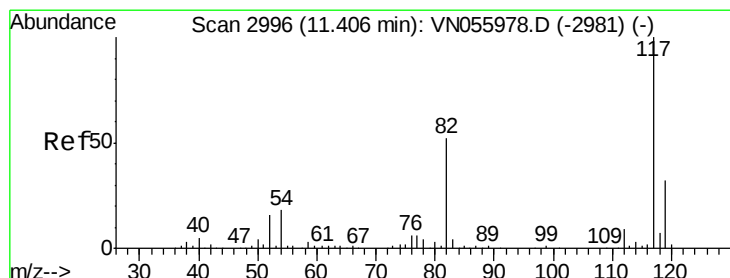
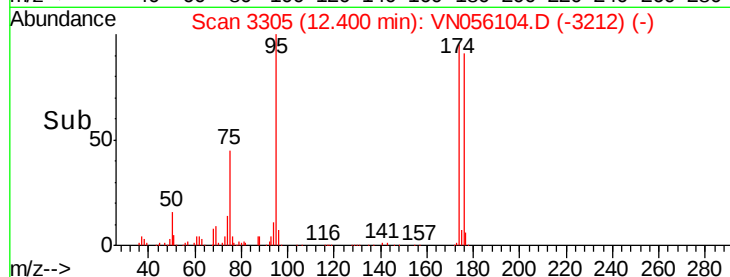
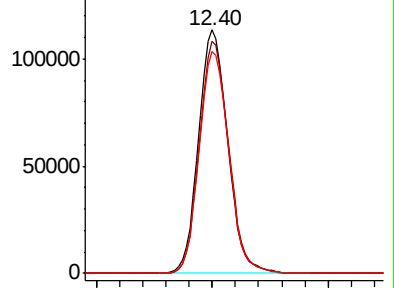
176 92.6 0.0 185.2



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: VN056104.D

Acq: 7 Jun 2019 17:39

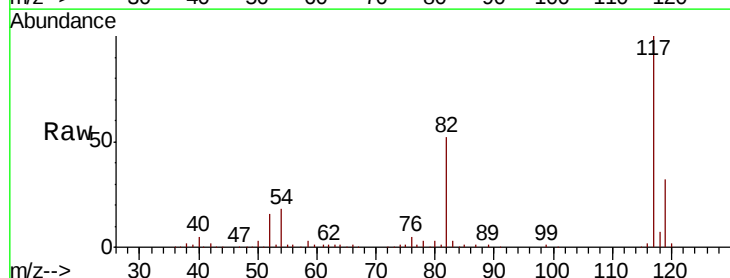
Tgt Ion: 117 Resp: 470003

Ion Ratio Lower Upper

117 100

82 51.6 41.8 62.8

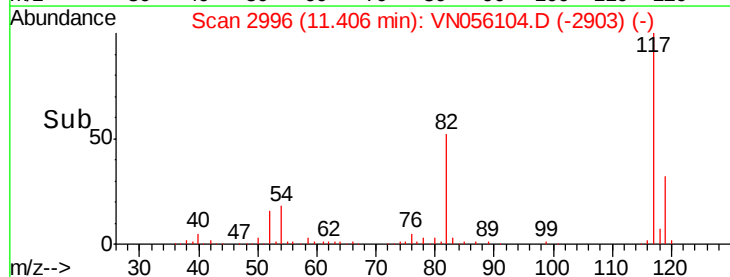
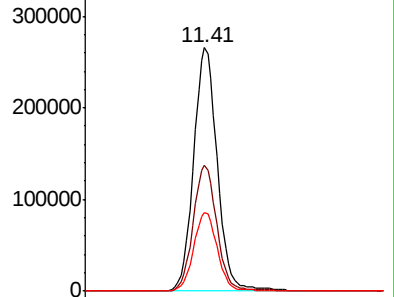
119 32.3 25.4 38.0

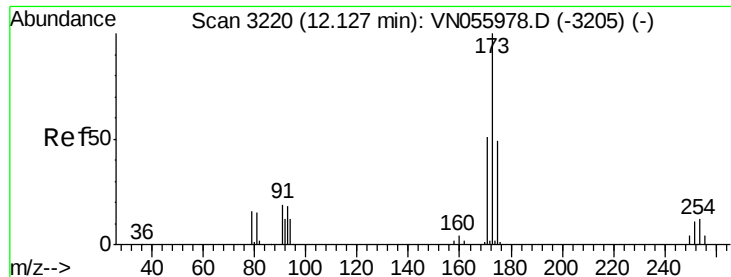


Abundance Ion 116.90 (116.60 to 117.60): VN055978.D (-2981) (-)

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

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





#71

Bromoform

Concen: 3.238 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN056104.D

Acq: 7 Jun 2019 17:39

Instrument :

MSVOA_N

ClientSampleId :

Z1-TB11-190605

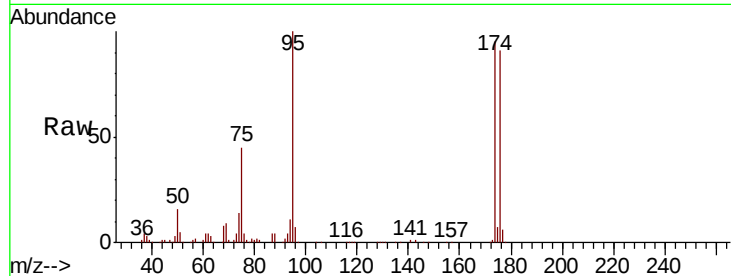
Tot Ion:173 Resp: 1422

Ion Ratio Lower Upper

173 100

175 835.7 24.3 72.8#

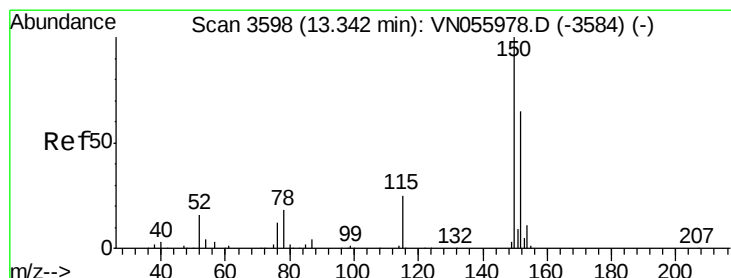
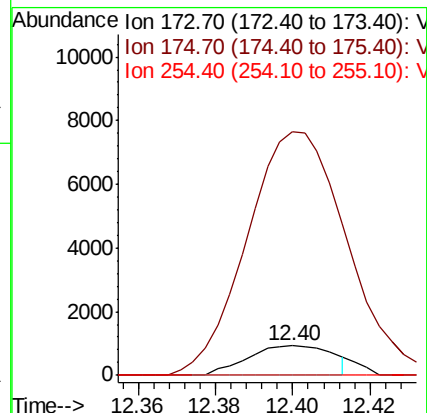
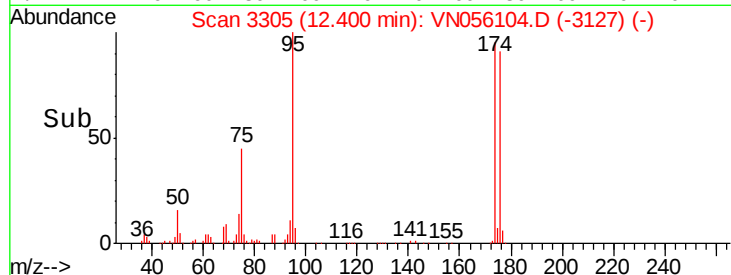
254 0.0 0.0 0.0



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: VN056104.D

Acq: 7 Jun 2019 17:39

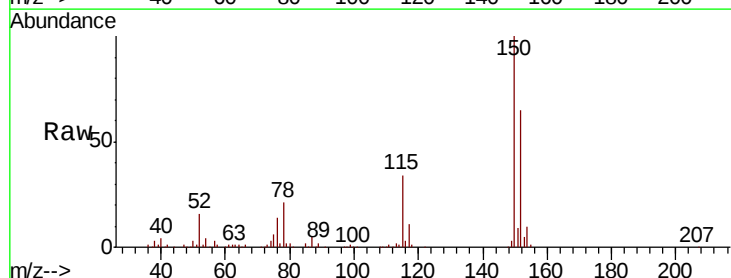
Tgt Ion:152 Resp: 148136

Ion Ratio Lower Upper

152 100

115 52.5 27.0 81.0

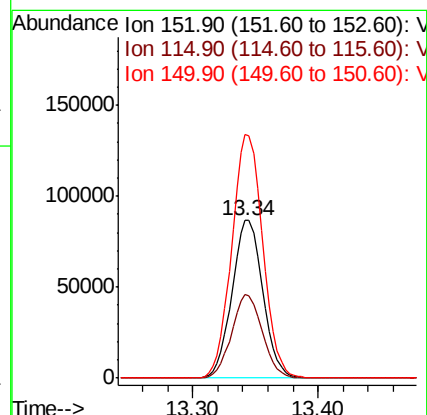
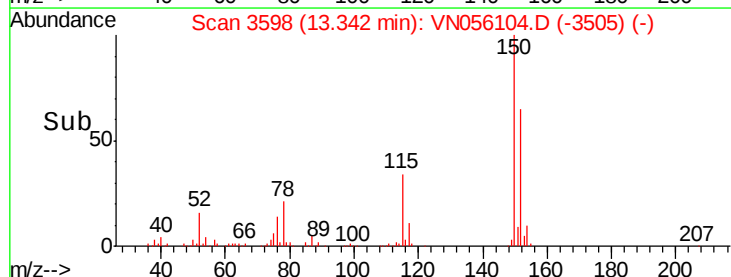
150 155.5 0.0 343.2

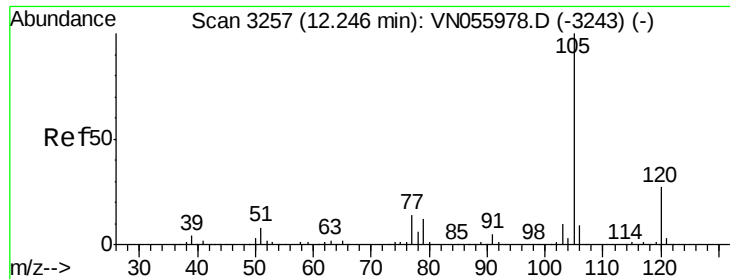


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN056104.D

Acq: 7 Jun 2019 17:39

Instrument :

MSVOA_N

ClientSampleId :

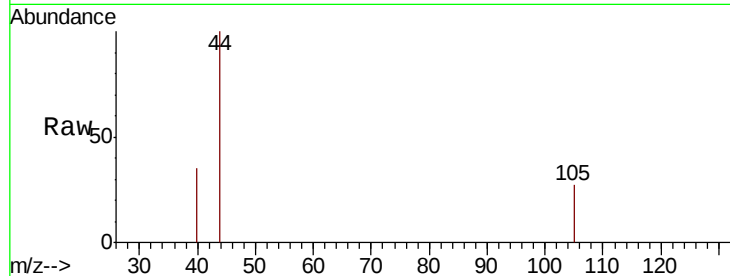
Z1-TB11-190605

Tot Ion:105 Resp: 59

Ion Ratio Lower Upper

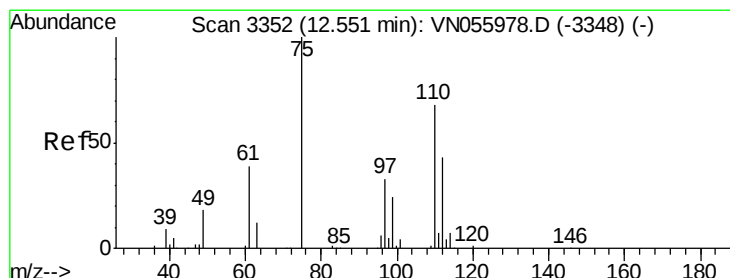
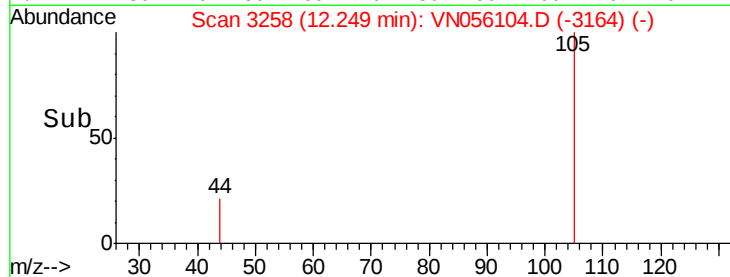
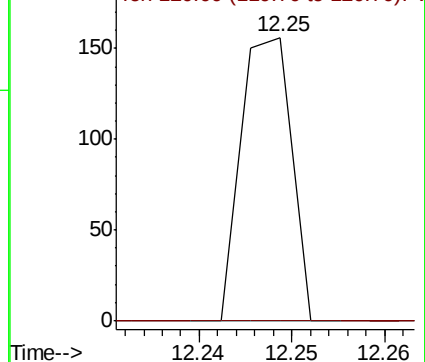
105 100

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: 32.253 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056104.D

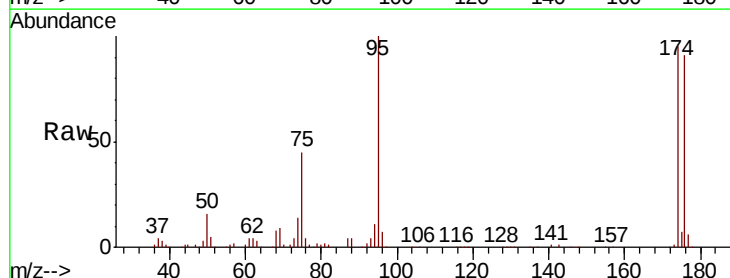
Acq: 7 Jun 2019 17:39

Tgt Ion: 75 Resp: 87915

Ion Ratio Lower Upper

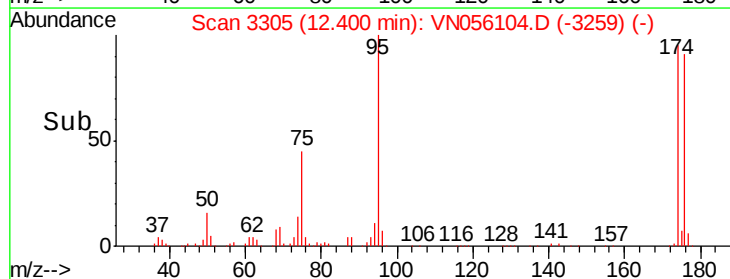
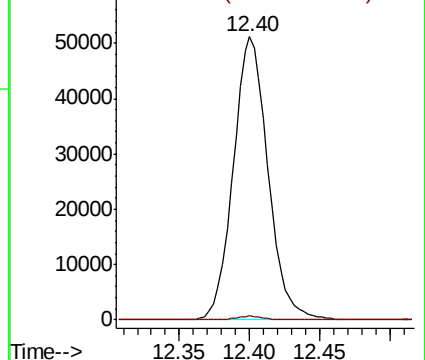
75 100

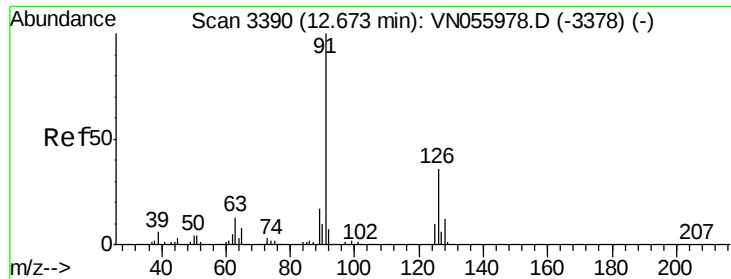
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.68 min Scan# 3392

Delta R.T. 0.01 min

Lab File: VN056104.D

Acq: 7 Jun 2019 17:39

Instrument :

MSVOA_N

ClientSampleId :

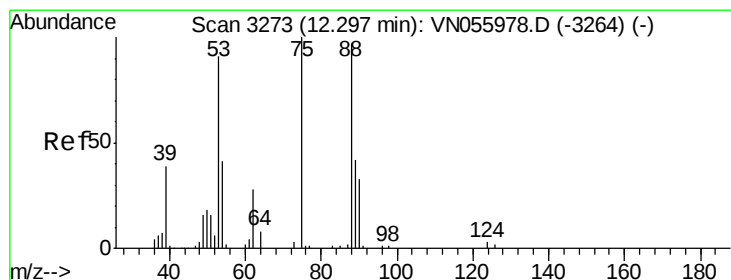
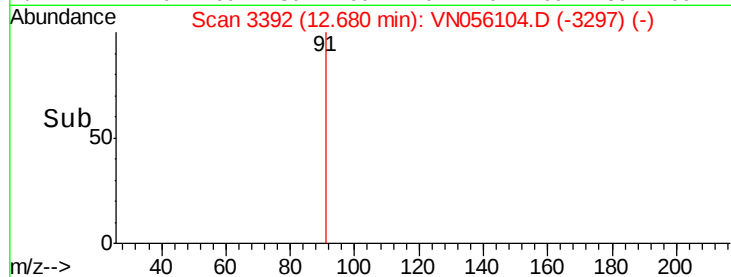
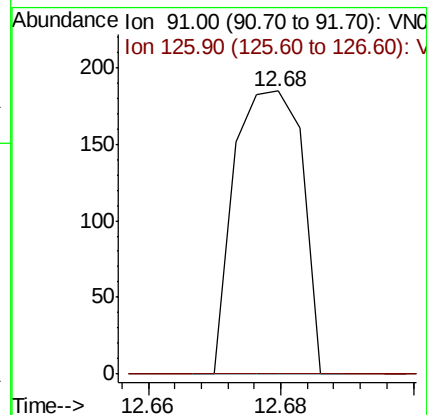
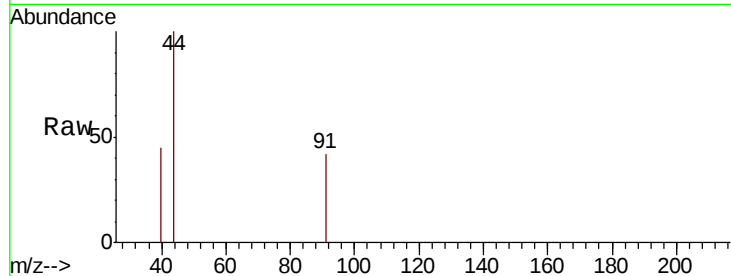
Z1-TB11-190605

Tot Ion: 91 Resp: 131

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 107.410 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056104.D

Acq: 7 Jun 2019 17:39

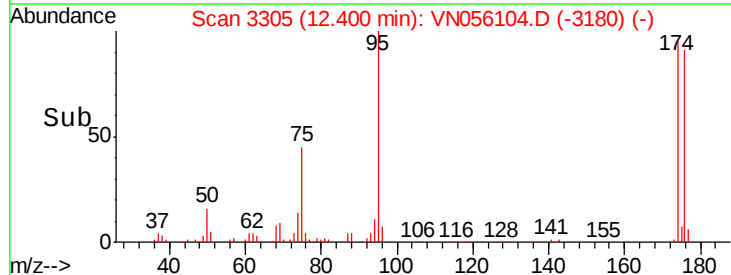
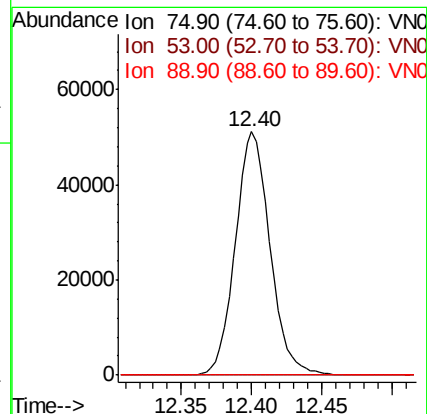
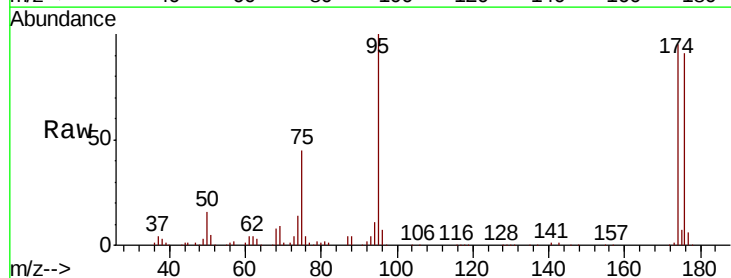
Tgt Ion: 75 Resp: 87915

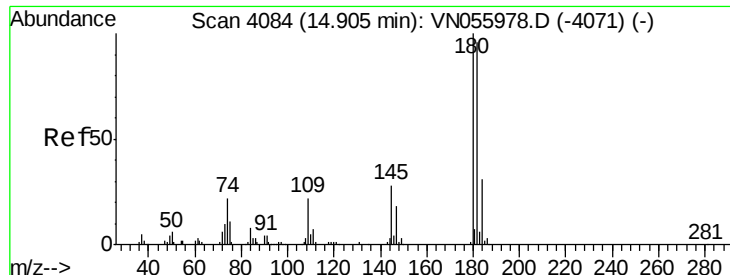
Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

89 0.0 36.9 55.3#

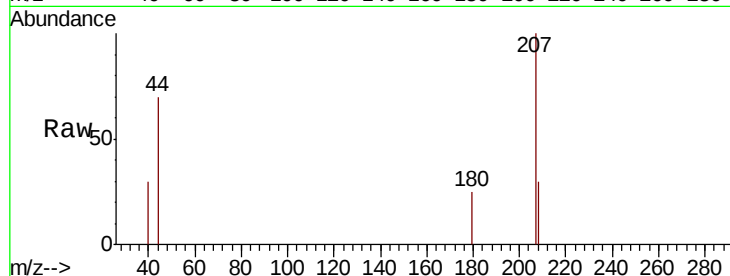




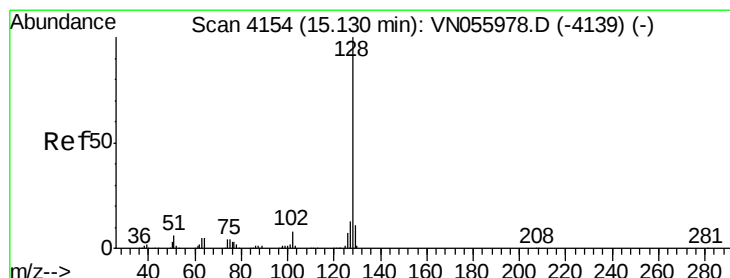
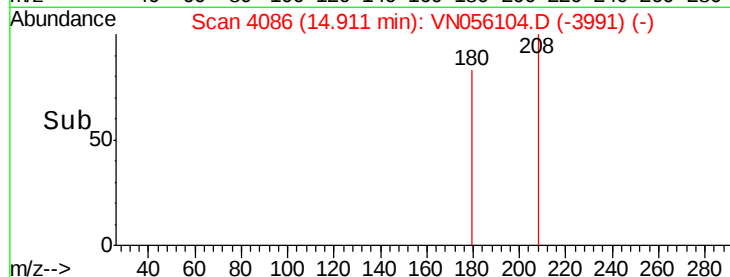
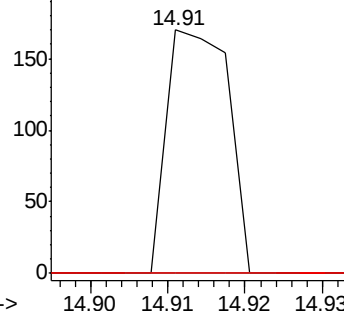
#93
 1,2,4-Trichlorobenzene
 Concen: 4.301 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.01 min
 Lab File: VN056104.D
 Acq: 7 Jun 2019 17:39

Instrument :
 MSVOA_N
 ClientSampleId :
 Z1-TB11-190605

Tot Ion:180 Resp: 94
 Ion Ratio Lower Upper
 180 100
 182 0.0 48.3 144.9#
 145 0.0 14.0 41.9#

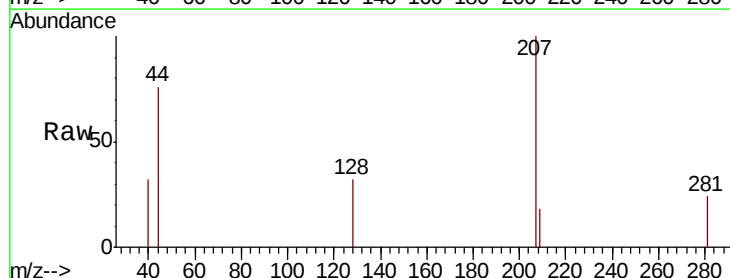


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

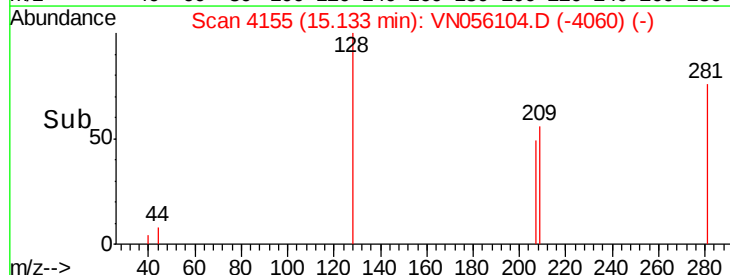
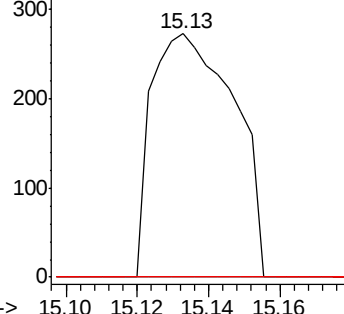


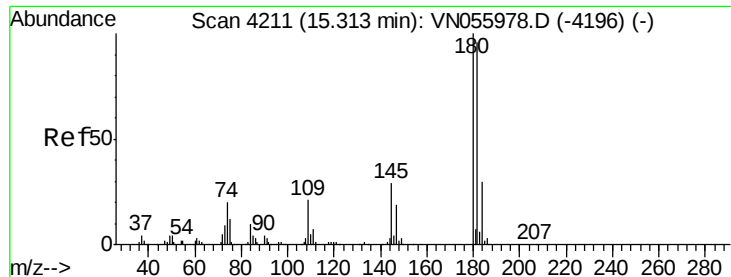
#95
 Naphthalene
 Concen: 3.908 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN056104.D
 Acq: 7 Jun 2019 17:39

Tgt Ion:128 Resp: 438
 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





#96
 1,2,3-Trichlorobenzene
 Concen: 3.079 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN056104.D
 Acq: 7 Jun 2019 17:39

Instrument :
 MSVOA_N
 ClientSampleId :
 Z1-TB11-190605

Tot Ion	Ratio	Lower	Upper
180	100		
182	139.2	47.9	143.7
145	0.0	14.9	44.7

