

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091219\
 Data File : VN057951.D
 Acq On : 12 Sep 2019 1:41
 Operator : JC/SP
 Sample : K4821-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TMW-04

Quant Time: Sep 12 02:35:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	270404	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	465634	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	420736	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	219678	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	314533	57.43	ug/l	0.00
Spiked Amount			Recovery	=	114.86%	
35) Dibromofluoromethane	7.58	113	213190	49.61	ug/l	0.00
Spiked Amount			Recovery	=	99.22%	
50) Toluene-d8	10.09	98	854073	51.19	ug/l	0.00
Spiked Amount			Recovery	=	102.38%	
62) 4-Bromofluorobenzene	12.40	95	278392	43.78	ug/l	0.00
Spiked Amount			Recovery	=	87.56%	

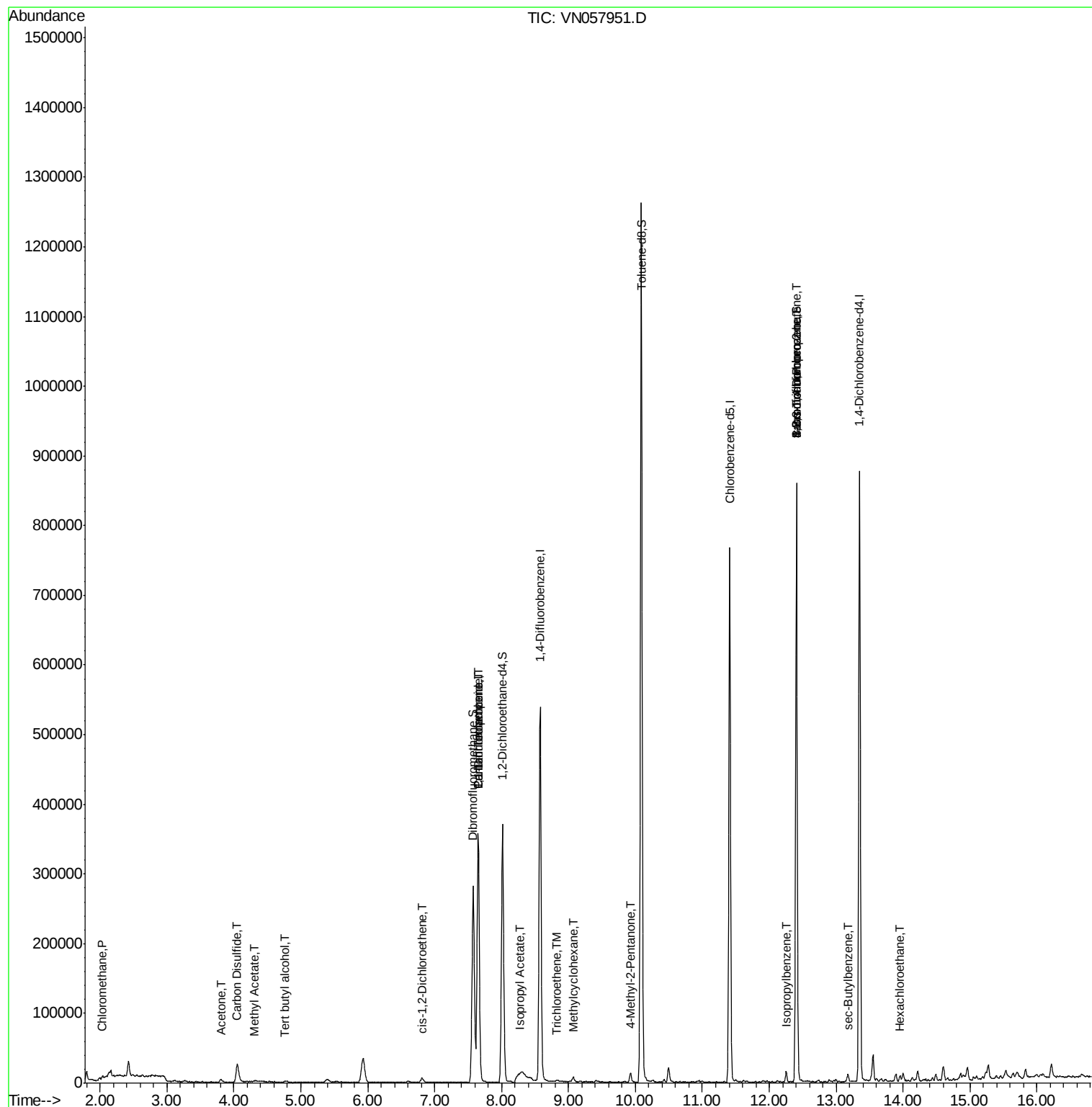
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	2374	0.623	ug/l	99
5) Bromomethane	2.55	94	239	Below Cal	#	80
11) Tert butyl alcohol	4.75	59	999	1.507	ug/l #	72
16) Acetone	3.81	43	7849	4.372	ug/l	93
17) Carbon Disulfide	4.04	76	607	0.294	ug/l #	75
18) Methyl Acetate	4.31	43	2352	0.491	ug/l #	71
20) Methylene Chloride	4.53	84	860	Below Cal		87
27) cis-1,2-Dichloroethene	6.81	96	2208	0.529	ug/l	43
31) Cyclohexane	7.65	56	9504	Below Cal	#	48
36) 1,1-Dichloropropene	7.65	75	24271	4.495	ug/l #	50
38) Carbon Tetrachloride	7.65	117	27917	5.662	ug/l #	15
39) Methylcyclohexane	9.07	83	2834	0.499	ug/l	98
43) Isopropyl Acetate	8.26	43	11888	1.267	ug/l #	56
44) Trichloroethene	8.83	130	894	0.224	ug/l	76
51) 4-Methyl-2-Pentanone	9.93	43	6708	1.208	ug/l #	38
71) Bromoform	12.40	173	1428	0.599	ug/l #	1
73) Isopropylbenzene	12.25	105	9656	0.566	ug/l	94
76) 1,2,3-Trichloropropane	12.41	75	153905	30.970	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	153905	108.984	ug/l #	6
85) sec-Butylbenzene	13.18	105	7879	0.464	ug/l	93
90) Hexachloroethane	13.96	117	3928	1.766	ug/l #	12
95) Naphthalene	15.14	128	1103	Below Cal		96

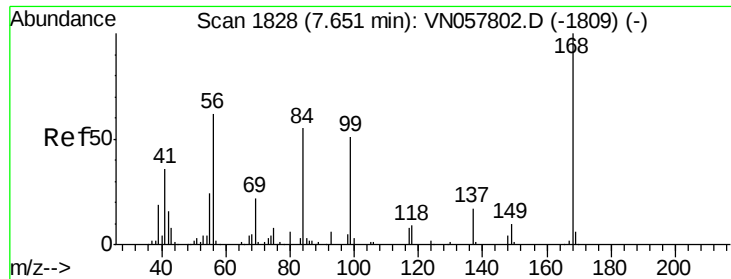
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN057951.D

Acq: 12 Sep 2019 1:41

Instrument :

MSVOA_N

ClientSampled :

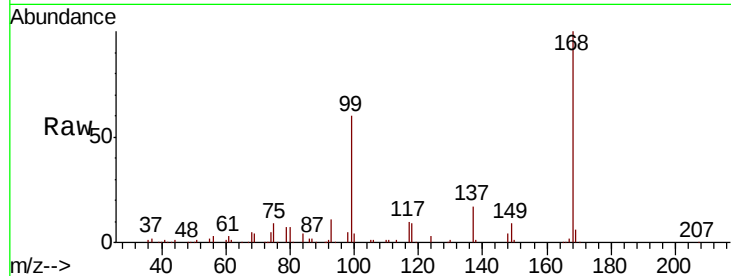
TMW-04

Tgt Ion:168 Resp: 270404

Ion Ratio Lower Upper

168 100

99 59.9 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

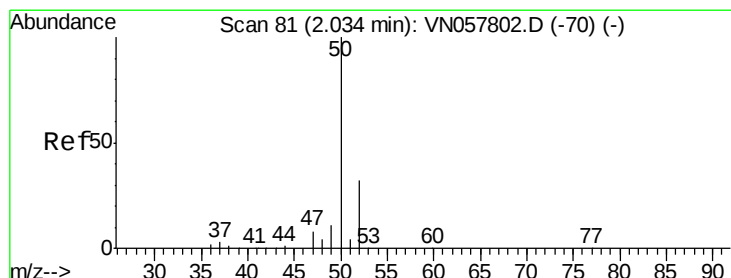
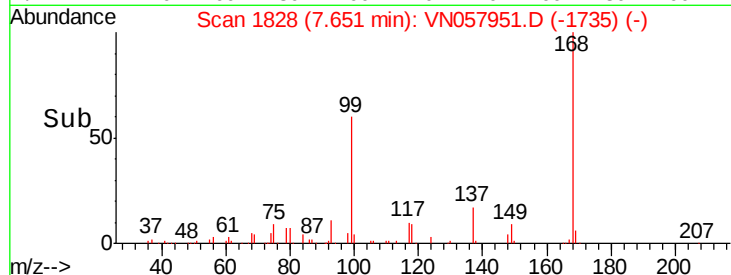
7.65

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.623 ug/l

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN057951.D

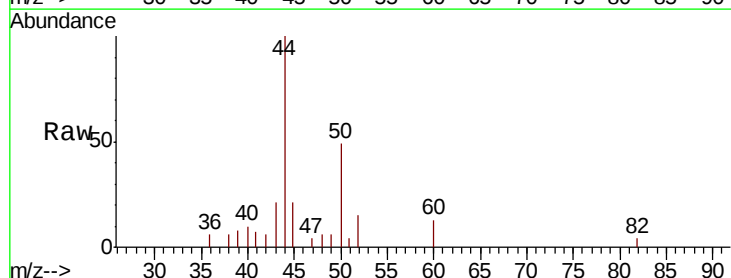
Acq: 12 Sep 2019 1:41

Tgt Ion: 50 Resp: 2374

Ion Ratio Lower Upper

50 100

52 31.1 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.03

2000

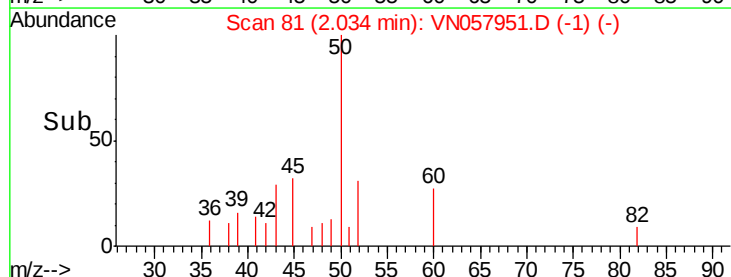
1500

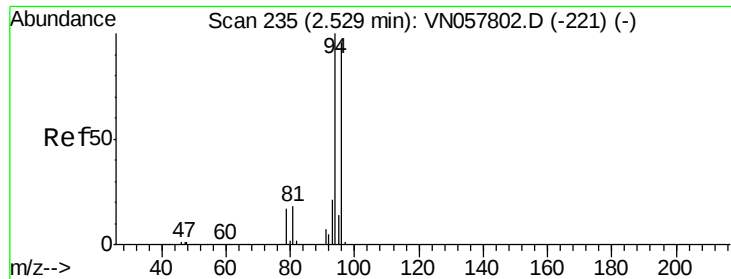
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 243

Delta R.T. 0.03 min

Lab File: VN057951.D

Acq: 12 Sep 2019 1:41

Instrument :

MSVOA_N

ClientSampleId :

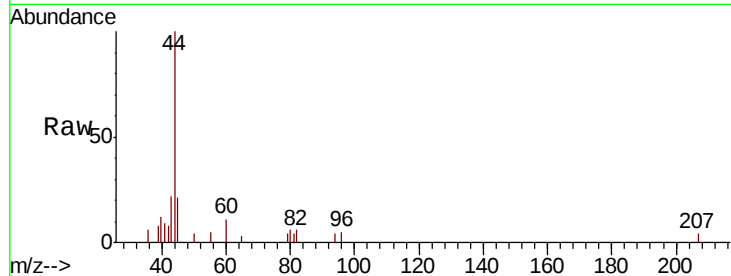
TMW-04

Tgt Ion: 94 Resp: 239

Ion Ratio Lower Upper

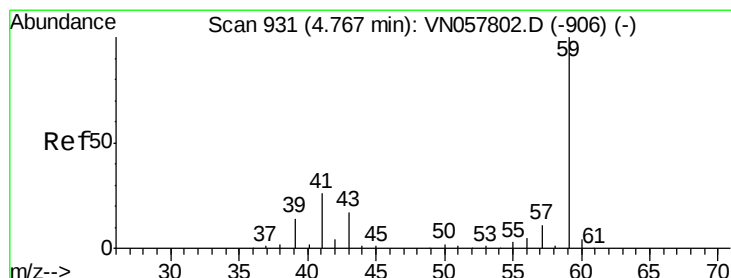
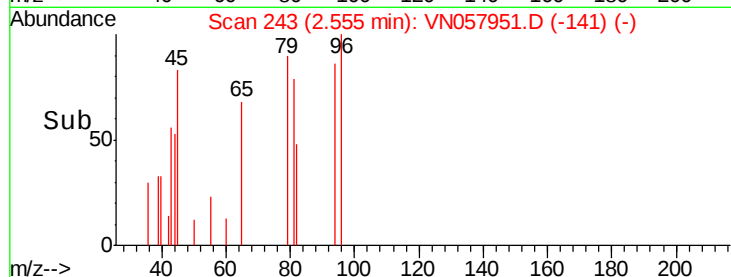
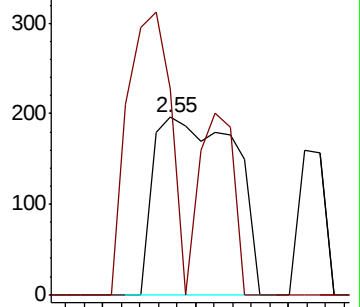
94 100

96 115.8 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#11

Tert butyl alcohol

Concen: 1.507 ug/l

RT: 4.75 min Scan# 927

Delta R.T. -0.01 min

Lab File: VN057951.D

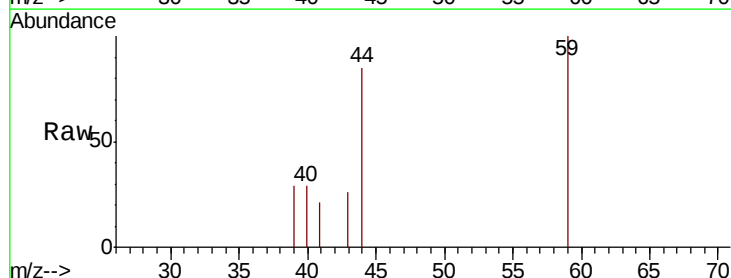
Acq: 12 Sep 2019 1:41

Tgt Ion: 59 Resp: 999

Ion Ratio Lower Upper

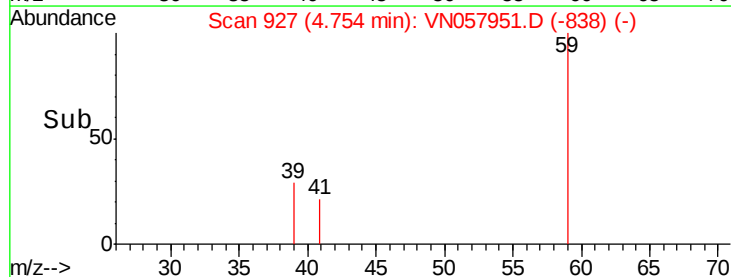
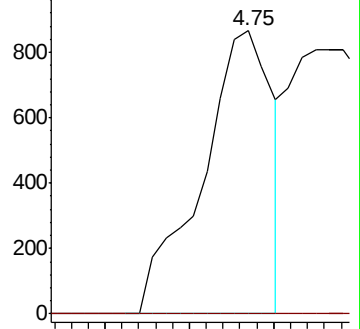
59 100

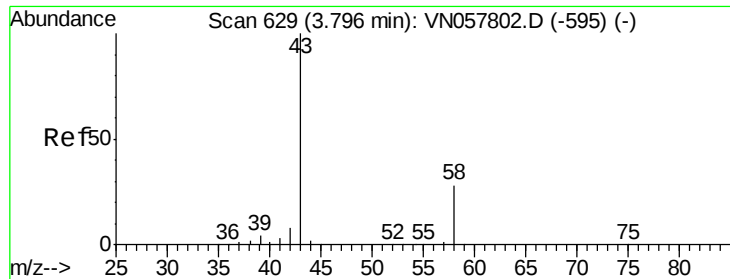
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: 4.372 ug/l

RT: 3.81 min Scan# 634

Delta R.T. 0.02 min

Lab File: VN057951.D

Acq: 12 Sep 2019 1:41

Instrument :

MSVOA_N

ClientSampled :

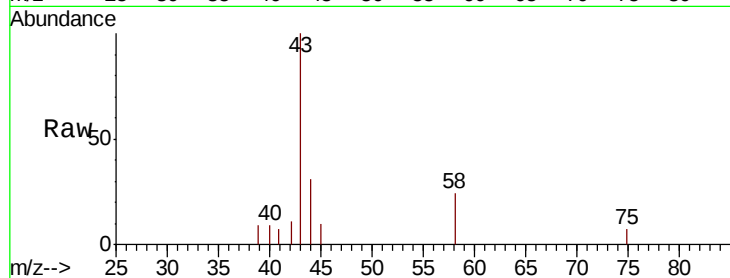
TMW-04

Tgt Ion: 43 Resp: 7849

Ion Ratio Lower Upper

43 100

58 24.0 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN057951.D (-634) (-)

Ion 58.00 (57.70 to 58.70): VN057951.D (-634) (-)

3.81

2500

2000

1500

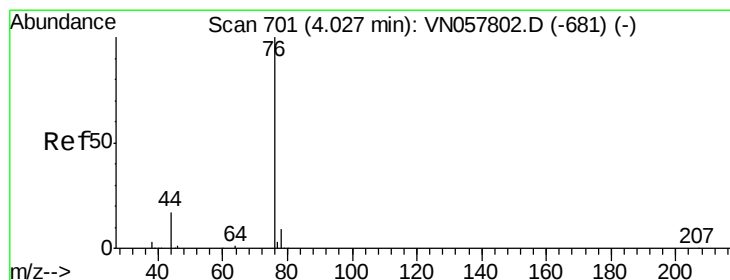
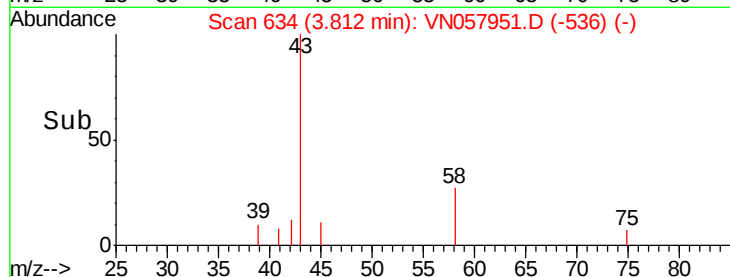
1000

500

0

Time-->

3.70 3.75 3.80 3.85 3.90



#17

Carbon Disulfide

Concen: 0.294 ug/l

RT: 4.04 min Scan# 705

Delta R.T. 0.01 min

Lab File: VN057951.D

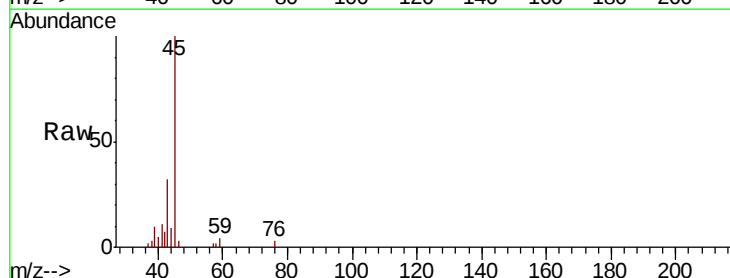
Acq: 12 Sep 2019 1:41

Tgt Ion: 76 Resp: 607

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN057951.D (-705) (-)

Ion 77.90 (77.60 to 78.60): VN057951.D (-705) (-)

4.04

300

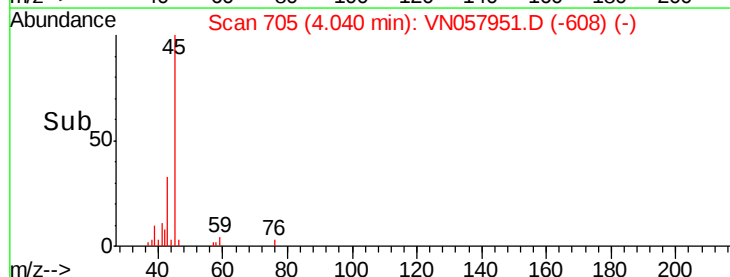
200

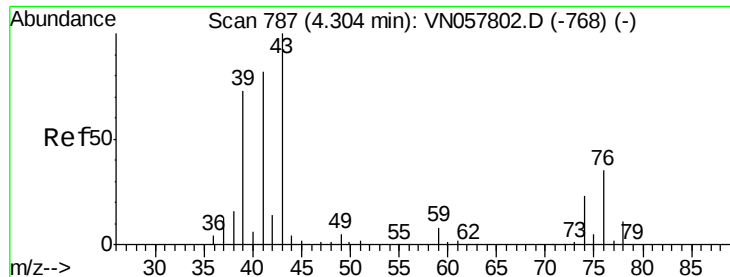
100

0

Time-->

3.98 4.00 4.02 4.04 4.06

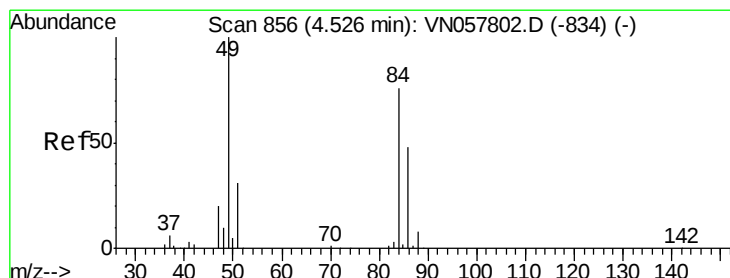
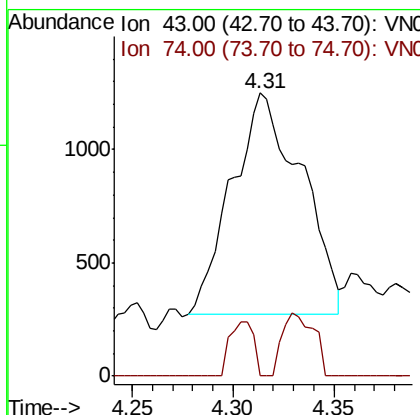
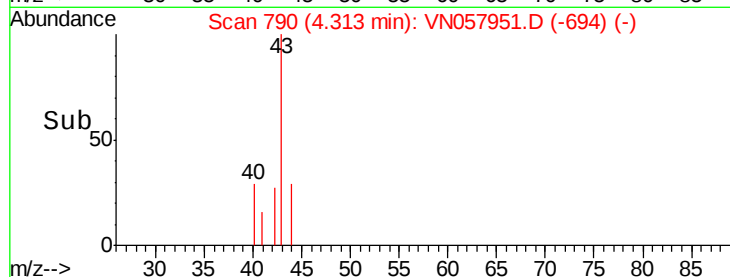
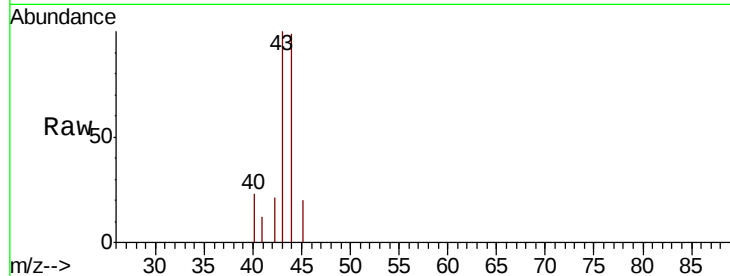




#18
Methyl Acetate
Concen: 0.491 ug/l
RT: 4.31 min Scan# 790
Delta R.T. 0.01 min
Lab File: VN057951.D
Acq: 12 Sep 2019 1:41

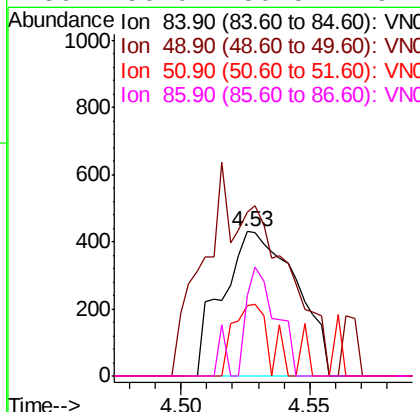
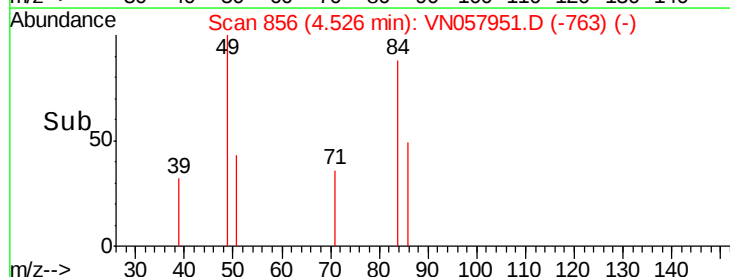
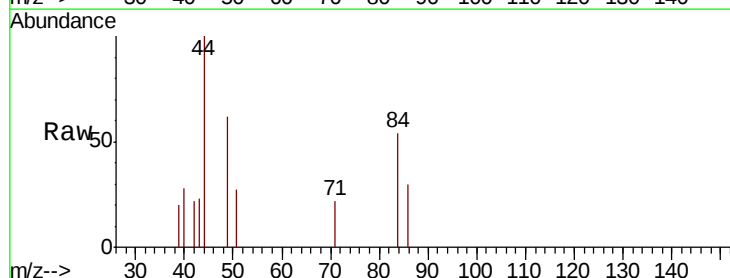
Instrument :
MSVOA_N
ClientSampled :
TMW-04

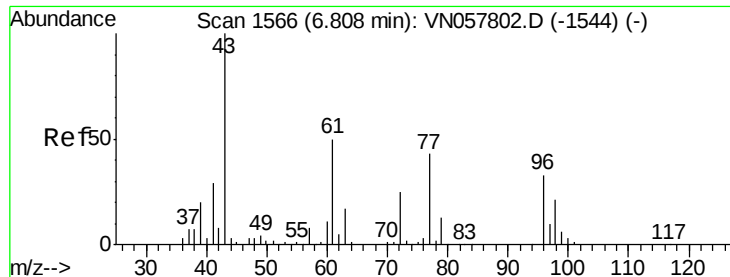
Tgt Ion: 43 Resp: 2352
Ion Ratio Lower Upper
43 100
74 8.5 17.9 26.9#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN057951.D
Acq: 12 Sep 2019 1:41

Tgt Ion: 84 Resp: 860
Ion Ratio Lower Upper
84 100
49 114.0 104.8 157.2
51 49.1 33.0 49.4
86 56.0 50.5 75.7





#27

cis-1,2-Dichloroethene

Concen: 0.529 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. 0.00 min

Lab File: VN057951.D

Acq: 12 Sep 2019 1:41

Instrument :

MSVOA_N

ClientSampleId :

TMW-04

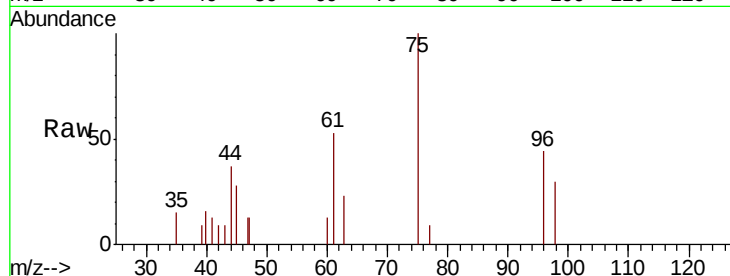
Tgt Ion: 96 Resp: 2208

Ion Ratio Lower Upper

96 100

61 69.7 0.0 314.0

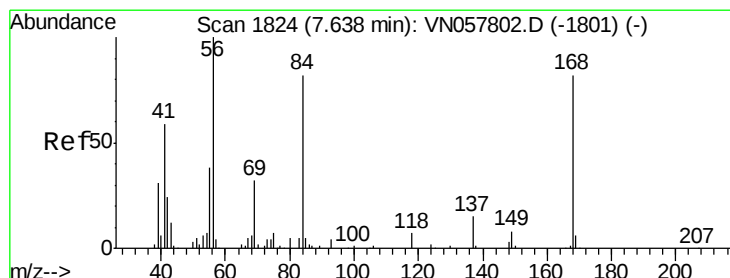
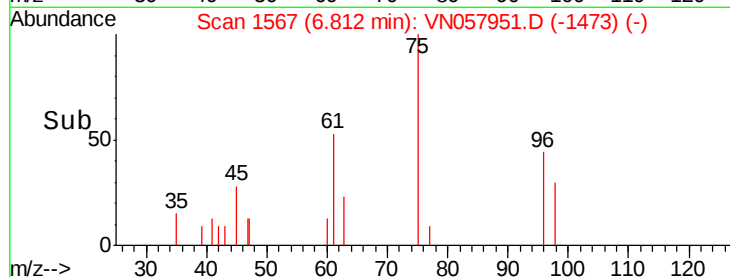
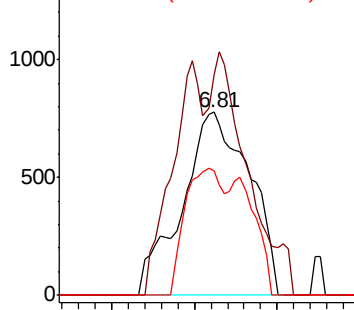
98 38.5 0.0 128.6



Abundance Ion 95.90 (95.60 to 96.60): VN057802.D (-1544) (-)

Ion 60.90 (60.60 to 61.60): VN057802.D (-1544) (-)

Ion 97.90 (97.60 to 98.60): VN057802.D (-1544) (-)



#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN057951.D

Acq: 12 Sep 2019 1:41

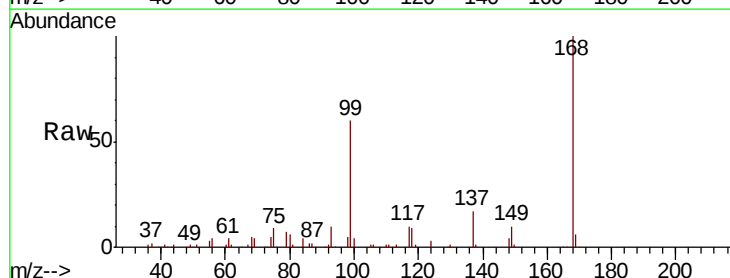
Tgt Ion: 56 Resp: 9504

Ion Ratio Lower Upper

56 100

69 113.7 25.9 38.9#

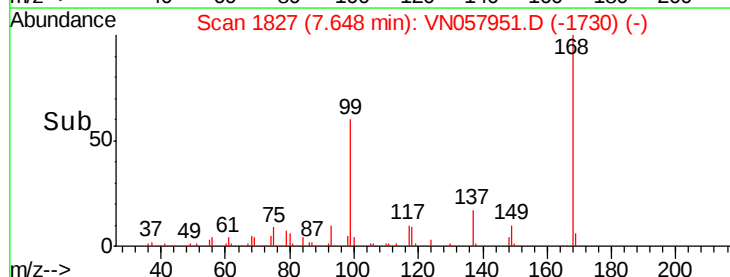
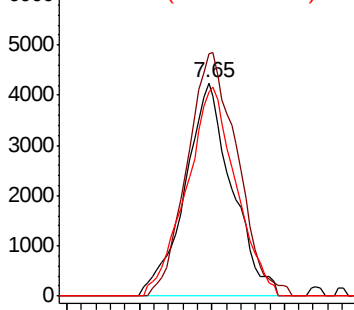
84 95.9 65.6 98.4

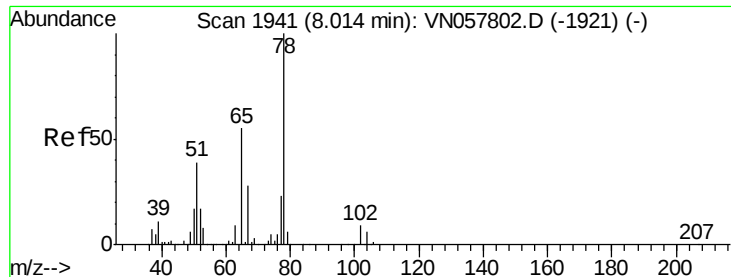


Abundance Ion 56.00 (55.70 to 56.70): VN057802.D (-1801) (-)

Ion 69.00 (68.70 to 69.70): VN057802.D (-1801) (-)

Ion 84.00 (83.70 to 84.70): VN057802.D (-1801) (-)





#33

1,2-Dichloroethane-d4

Concen: 57.430 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057951.D

Acq: 12 Sep 2019 1:41

Instrument :

MSVOA_N

ClientSampleId :

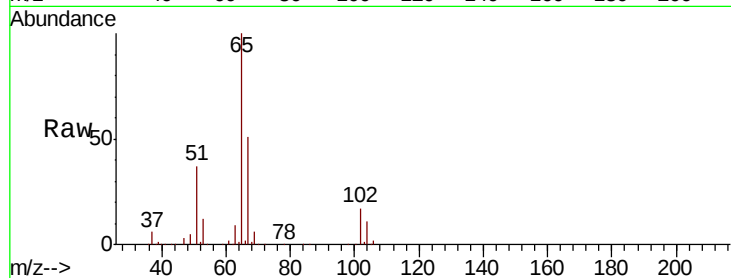
TMW-04

Tgt Ion: 65 Resp: 314533

Ion Ratio Lower Upper

65 100

67 51.6 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN057802.D (-1921) (-)

Ion 66.90 (66.60 to 67.60): VN057802.D (-1921) (-)

8.01

150000

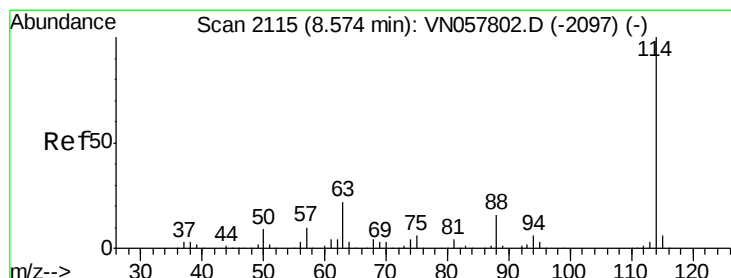
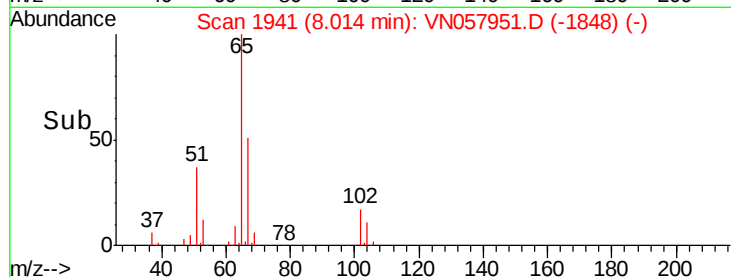
100000

50000

0

7.90 7.95 8.00 8.05 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2116

Delta R.T. 0.00 min

Lab File: VN057951.D

Acq: 12 Sep 2019 1:41

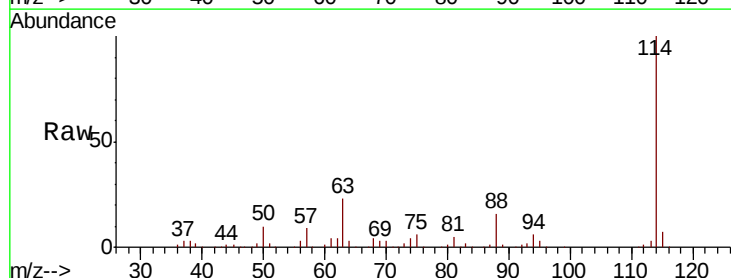
Tgt Ion: 114 Resp: 465634

Ion Ratio Lower Upper

114 100

63 22.9 0.0 44.0

88 16.3 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): VN057802.D (-2097) (-)

Ion 63.00 (62.70 to 63.70): VN057802.D (-2097) (-)

Ion 87.90 (87.60 to 88.60): VN057802.D (-2097) (-)

300000

250000

200000

150000

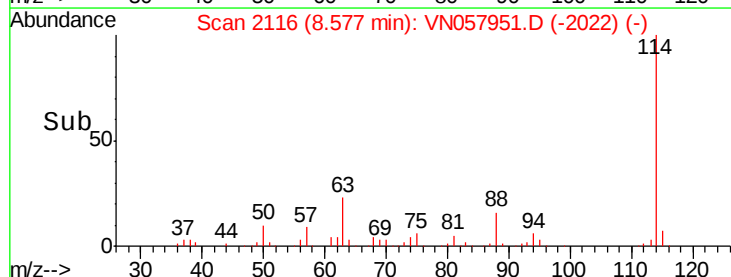
100000

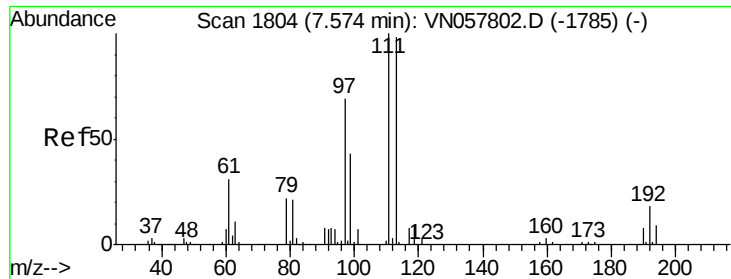
50000

0

8.50 8.55 8.60 8.65 8.70

Time-->

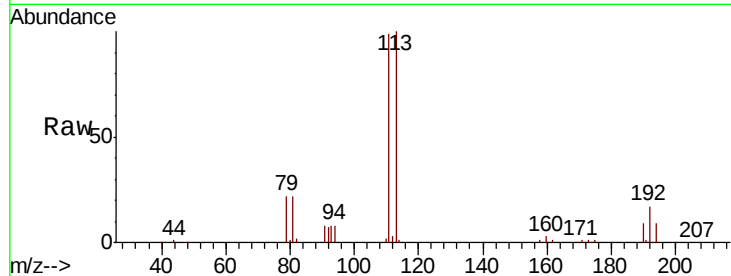




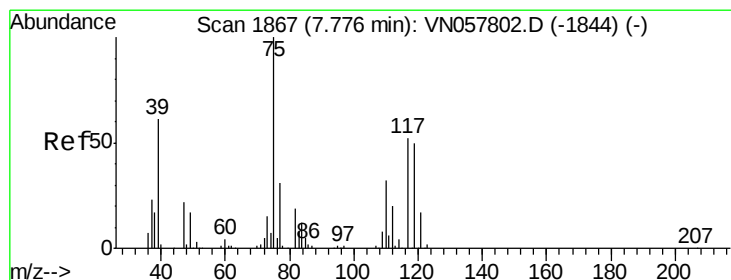
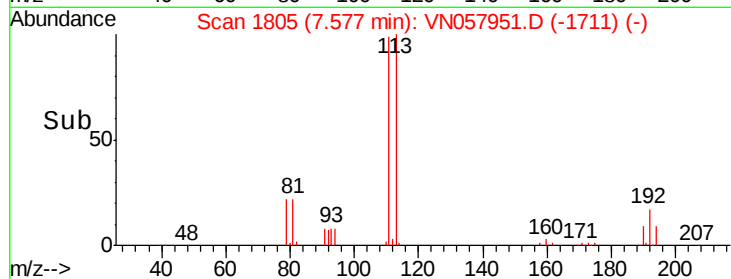
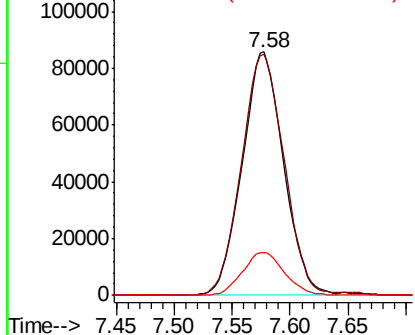
#35
 Dibromofluoromethane
 Concen: 49.607 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057951.D
 Acq: 12 Sep 2019 1:41

Instrument :
 MSVOA_N
 ClientSampleId :
 TMW-04

Tgt Ion: 113 Resp: 213190
 Ion Ratio Lower Upper
 113 100
 111 102.5 81.3 121.9
 192 17.9 14.6 22.0

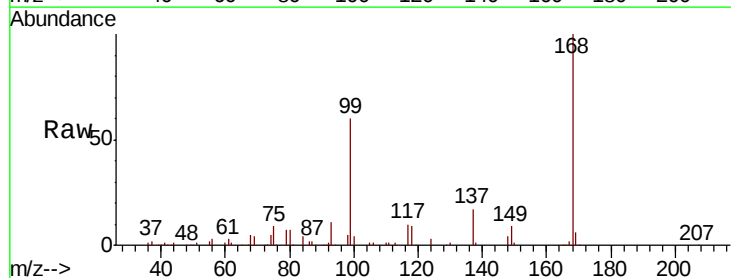


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

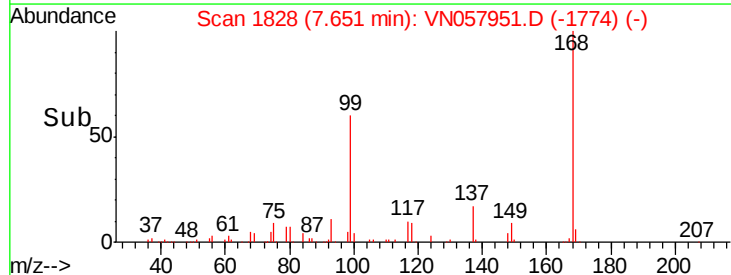
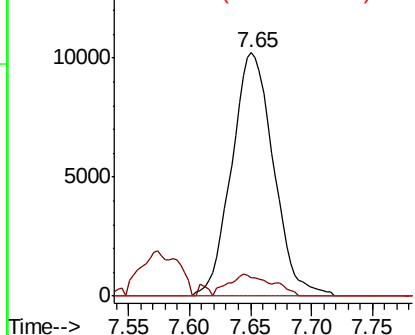


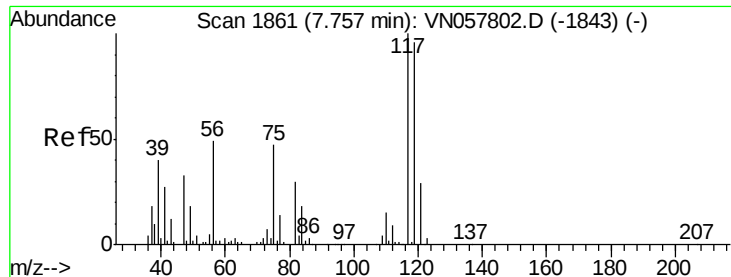
#36
 1,1-Dichloropropene
 Concen: 4.495 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057951.D
 Acq: 12 Sep 2019 1:41

Tgt Ion: 75 Resp: 24271
 Ion Ratio Lower Upper
 75 100
 110 7.6 16.3 48.9#
 77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.662 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN057951.D

Acq: 12 Sep 2019 1:41

Instrument :

MSVOA_N

ClientSampleId :

TMW-04

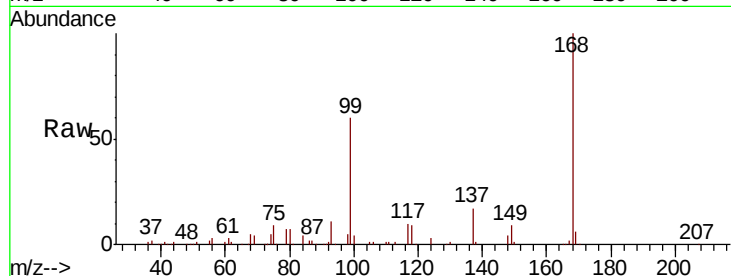
Tgt Ion:117 Resp: 27917

Ion Ratio Lower Upper

117 100

119 4.1 76.9 115.3#

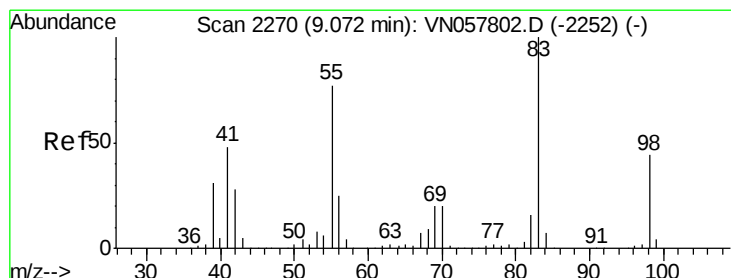
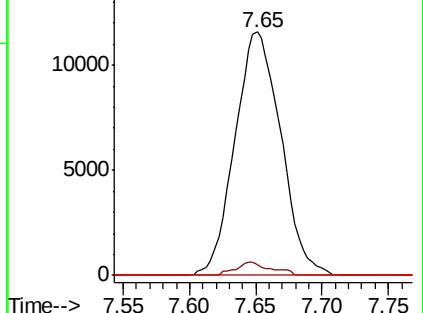
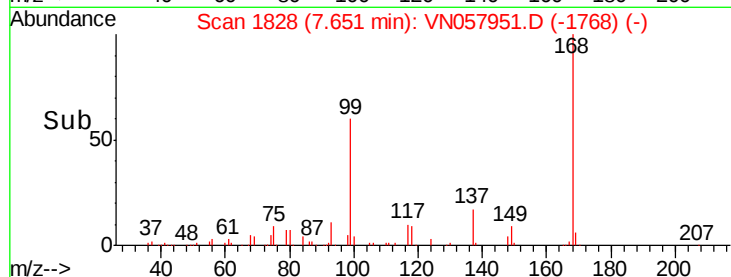
121 0.0 23.4 35.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 0.499 ug/l

RT: 9.07 min Scan# 2269

Delta R.T. -0.00 min

Lab File: VN057951.D

Acq: 12 Sep 2019 1:41

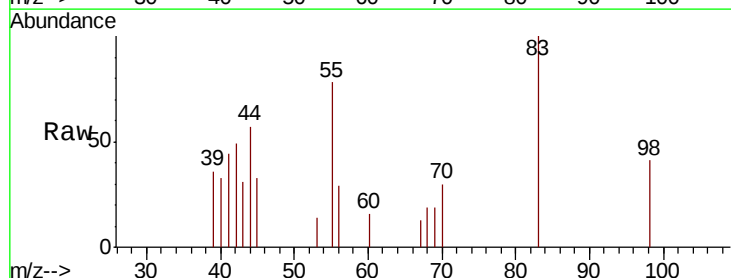
Tgt Ion: 83 Resp: 2834

Ion Ratio Lower Upper

83 100

55 78.4 61.6 92.4

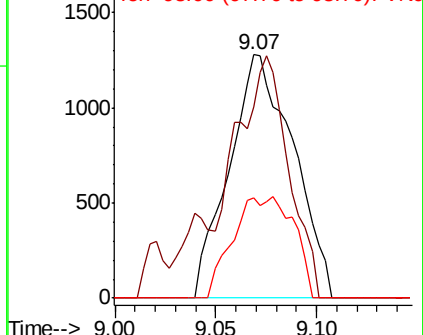
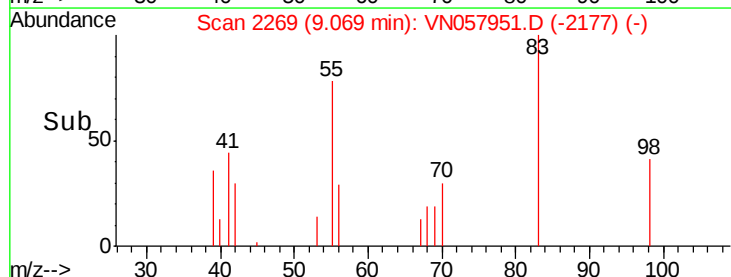
98 41.3 34.9 52.3

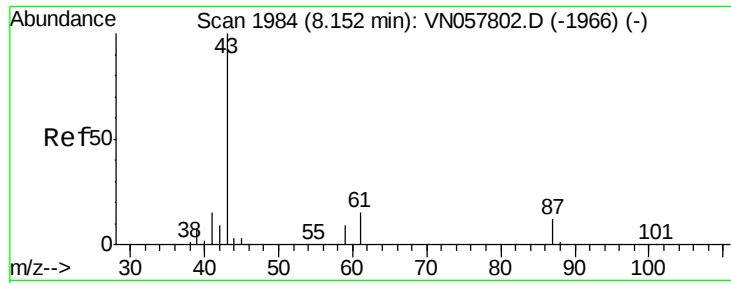


Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 98.00 (97.70 to 98.70): VN0

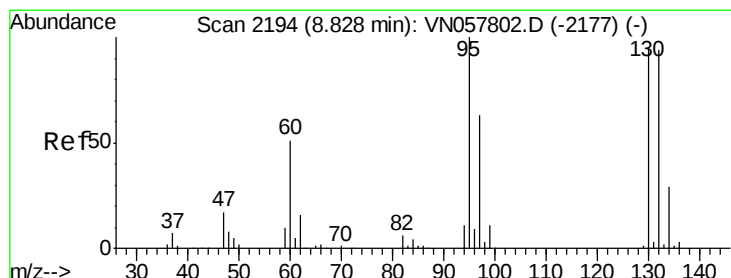
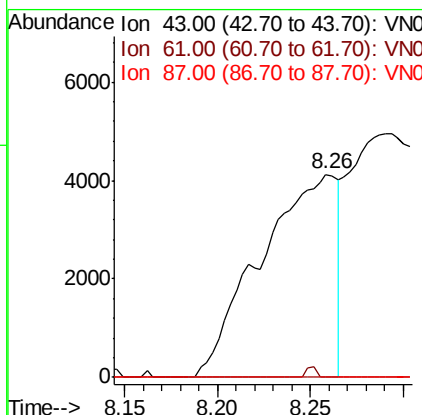
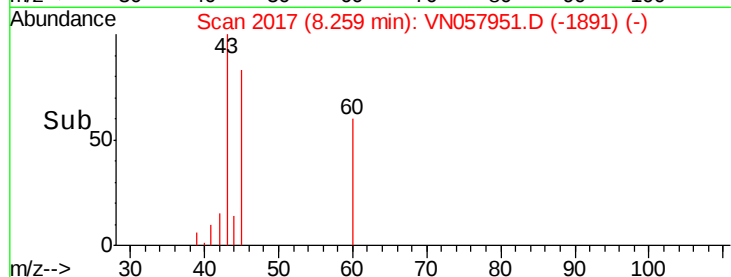
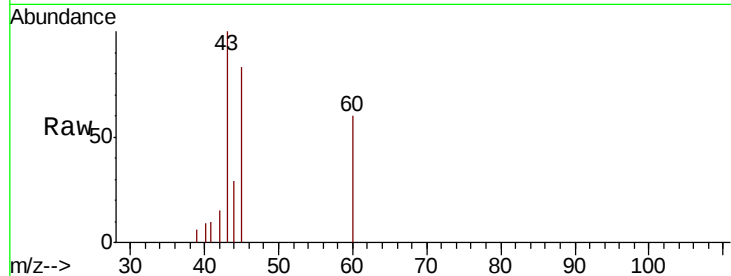




#43
Isopropyl Acetate
Concen: 1.267 ug/l
RT: 8.26 min Scan# 2017
Delta R.T. 0.11 min
Lab File: VN057951.D
Acq: 12 Sep 2019 1:41

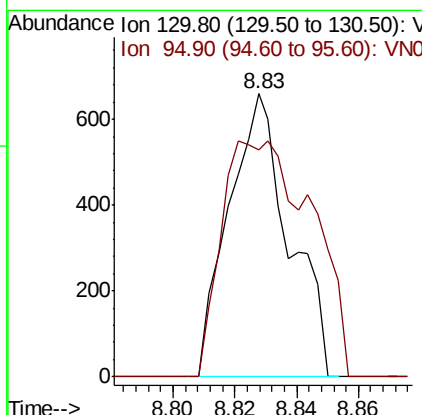
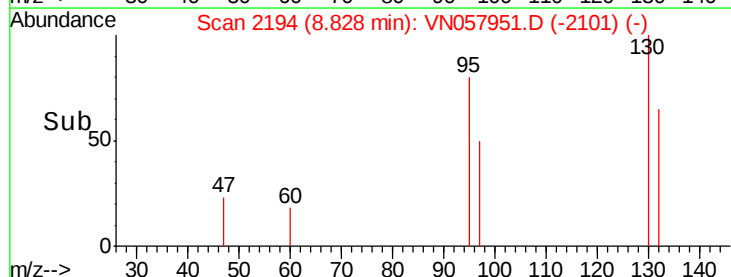
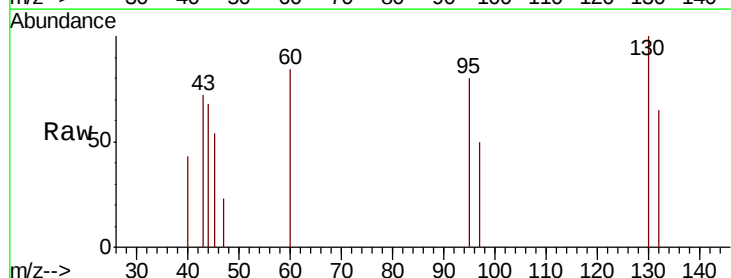
Instrument :
MSVOA_N
ClientSampled :
TMW-04

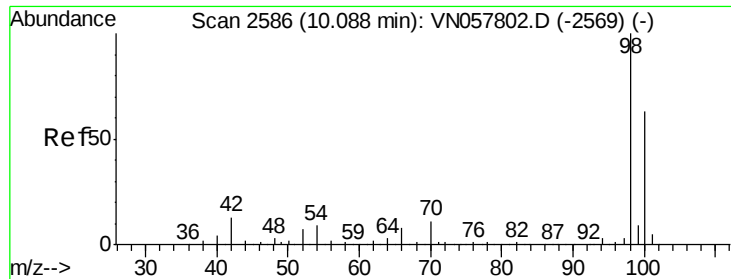
Tgt Ion: 43 Resp: 11888
Ion Ratio Lower Upper
43 100
61 0.0 20.1 30.1#
87 0.0 9.5 14.3#



#44
Trichloroethene
Concen: 0.224 ug/l
RT: 8.83 min Scan# 2194
Delta R.T. 0.00 min
Lab File: VN057951.D
Acq: 12 Sep 2019 1:41

Tgt Ion:130 Resp: 894
Ion Ratio Lower Upper
130 100
95 80.4 0.0 211.4

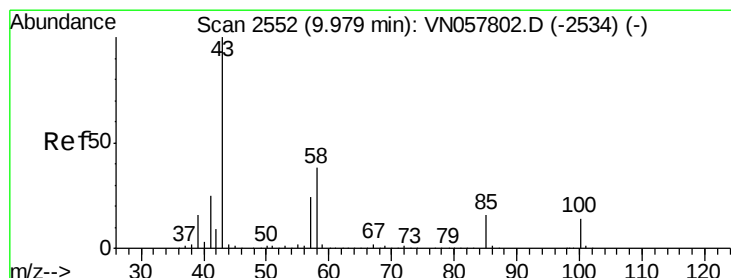
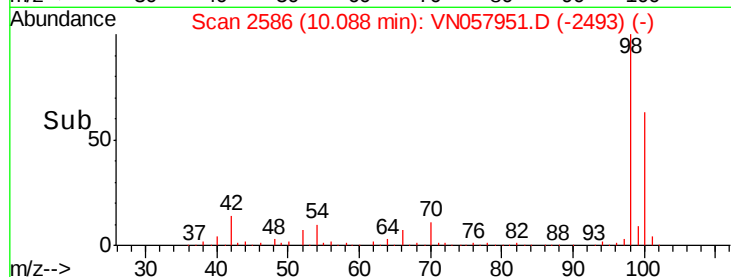
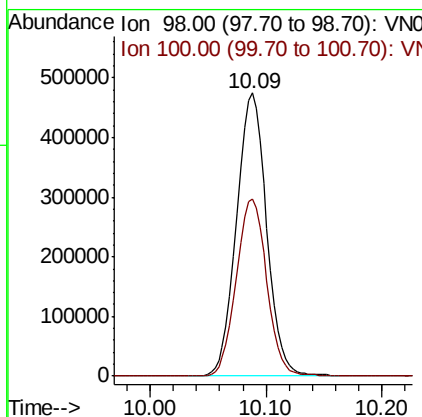
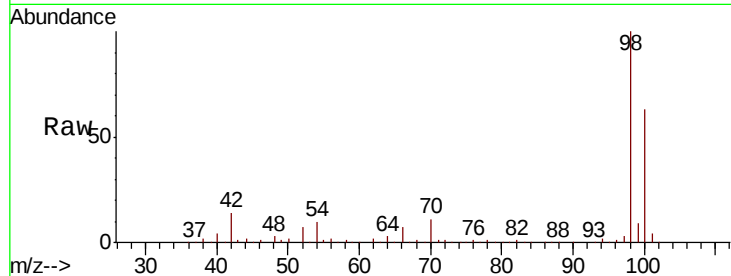




#50
Toluene-d8
Concen: 51.186 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN057951.D
Acq: 12 Sep 2019 1:41

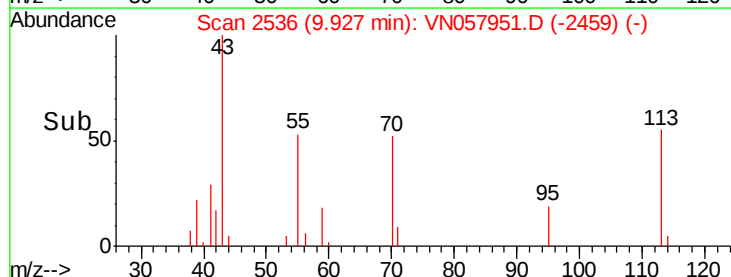
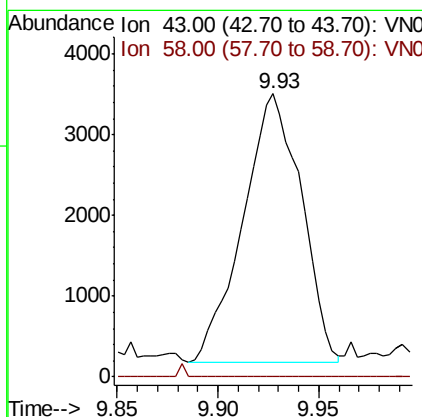
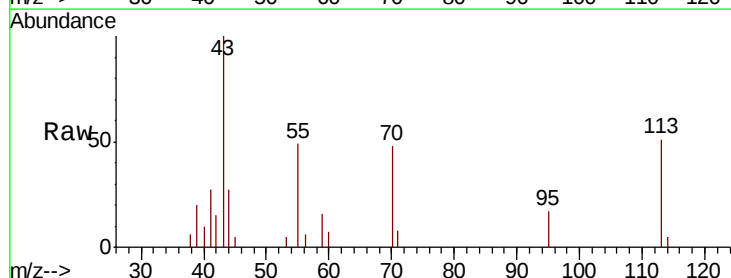
Instrument :
MSVOA_N
ClientSampled :
TMW-04

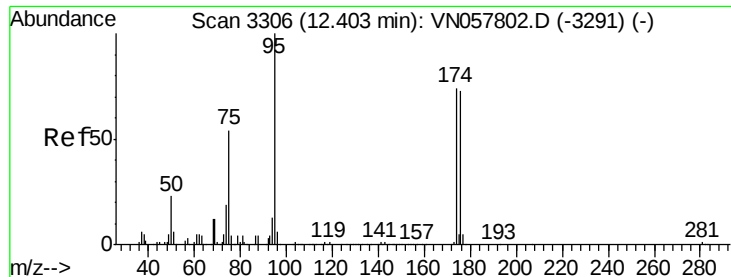
Tgt Ion: 98 Resp: 854073
Ion Ratio Lower Upper
98 100
100 63.4 50.3 75.5



#51
4-Methyl-2-Pentanone
Concen: 1.208 ug/l
RT: 9.93 min Scan# 2536
Delta R.T. -0.05 min
Lab File: VN057951.D
Acq: 12 Sep 2019 1:41

Tgt Ion: 43 Resp: 6708
Ion Ratio Lower Upper
43 100
58 0.0 29.8 44.6#





#62

4-Bromofluorobenzene

Concen: 43.781 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057951.D

Acq: 12 Sep 2019 1:41

Instrument :

MSVOA_N

ClientSampleId :

TMW-04

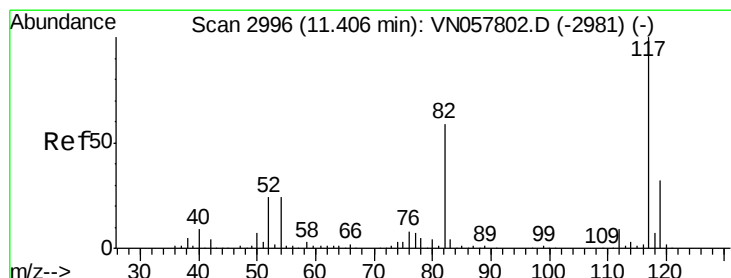
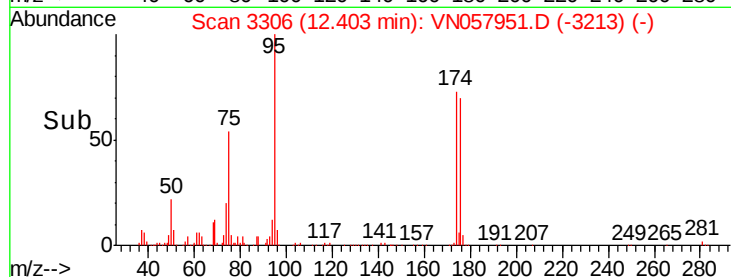
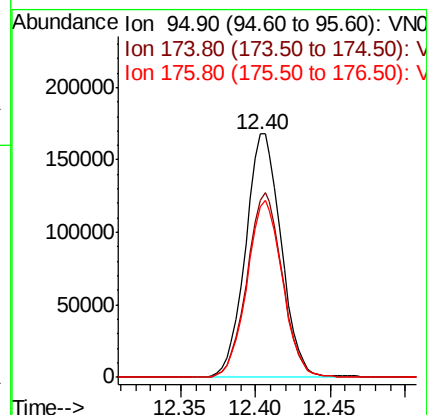
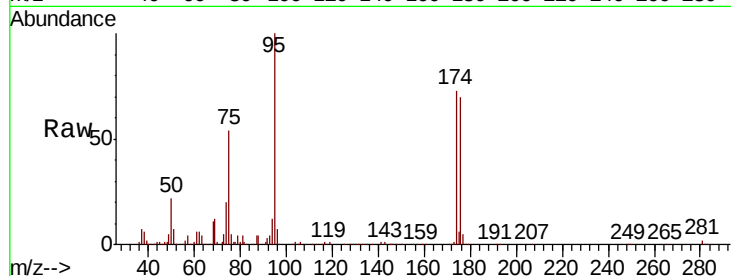
Tgt Ion: 95 Resp: 278392

Ion Ratio Lower Upper

95 100

174 75.3 0.0 150.2

176 72.5 0.0 146.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN057951.D

Acq: 12 Sep 2019 1:41

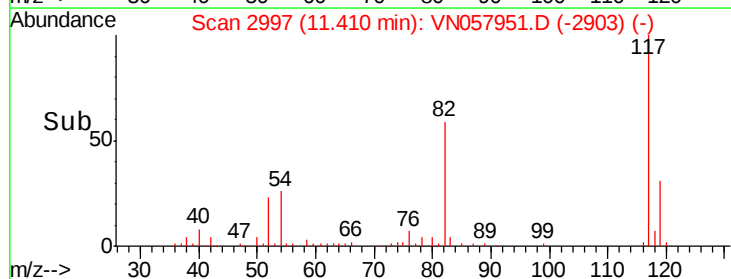
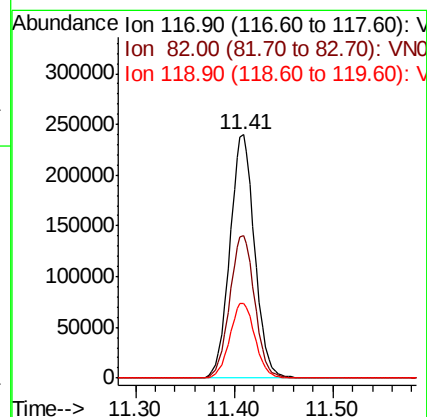
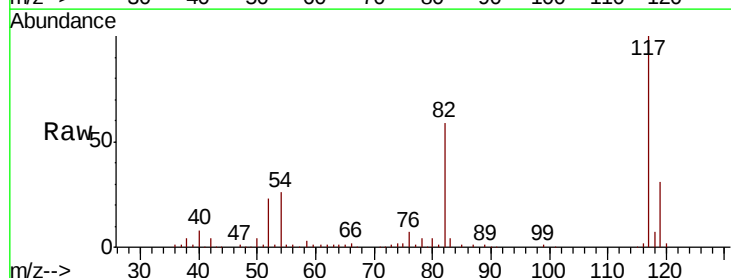
Tgt Ion: 117 Resp: 420736

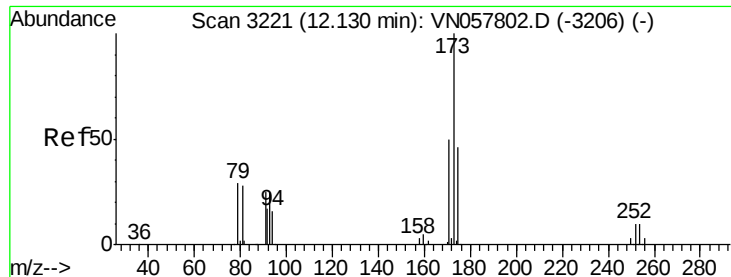
Ion Ratio Lower Upper

117 100

82 58.7 47.2 70.8

119 30.9 25.3 37.9





#71

Bromoform

Concen: 0.599 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.27 min

Lab File: VN057951.D

Acq: 12 Sep 2019 1:41

Instrument :

MSVOA_N

ClientSampleId :

TMW-04

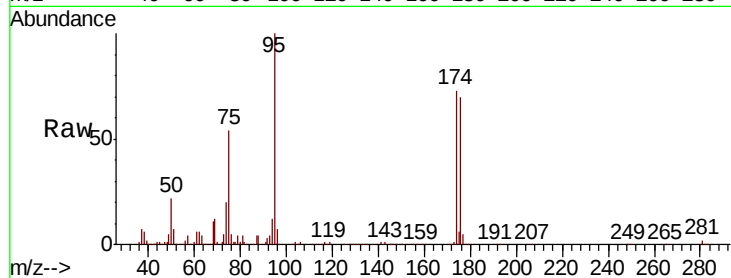
Tgt Ion:173 Resp: 1428

Ion Ratio Lower Upper

173 100

175 995.1 23.5 70.6#

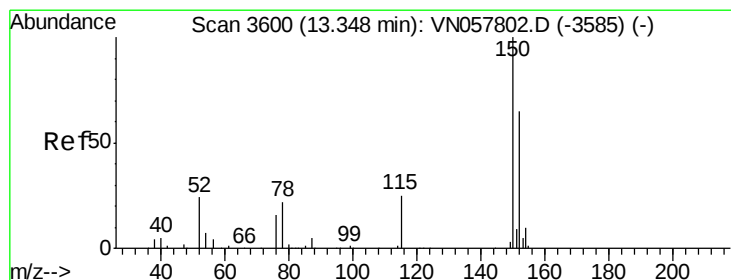
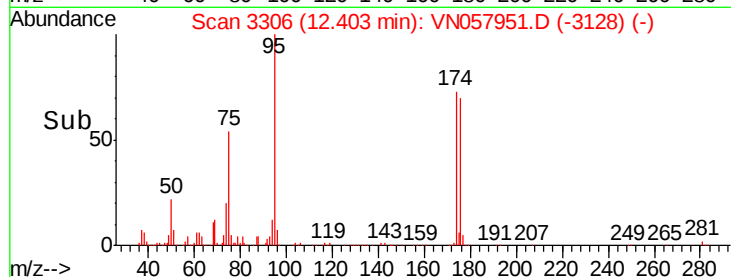
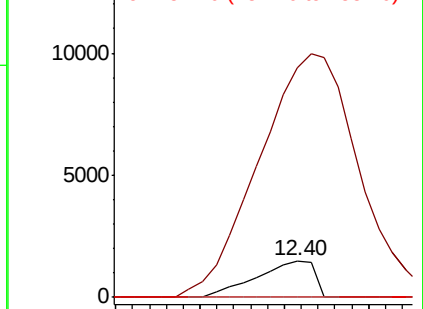
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057951.D

Acq: 12 Sep 2019 1:41

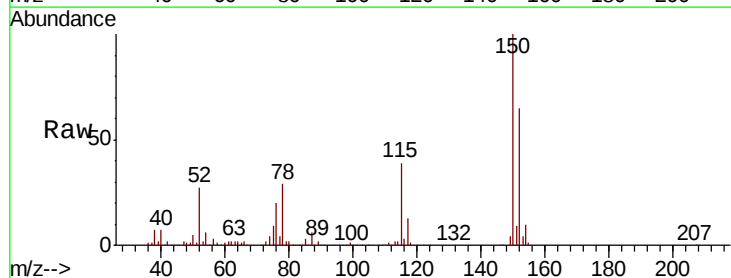
Tgt Ion:152 Resp: 219678

Ion Ratio Lower Upper

152 100

115 61.1 30.3 91.0

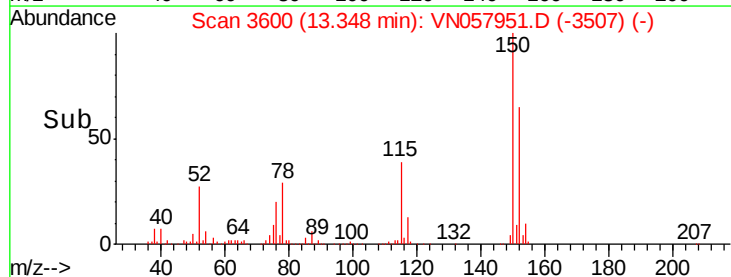
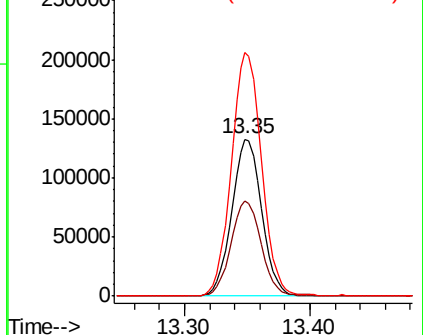
150 156.7 0.0 352.4

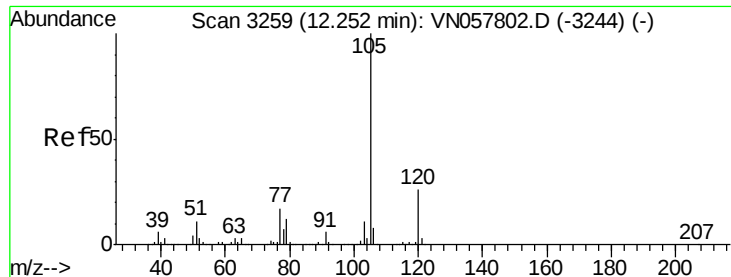


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 0.566 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN057951.D

Acq: 12 Sep 2019 1:41

Instrument :

MSVOA_N

ClientSampleId :

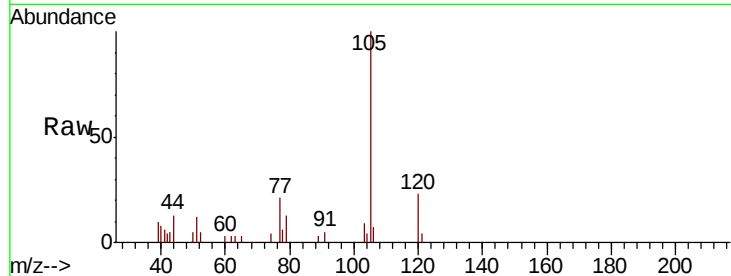
TMW-04

Tgt Ion: 105 Resp: 9656

Ion Ratio Lower Upper

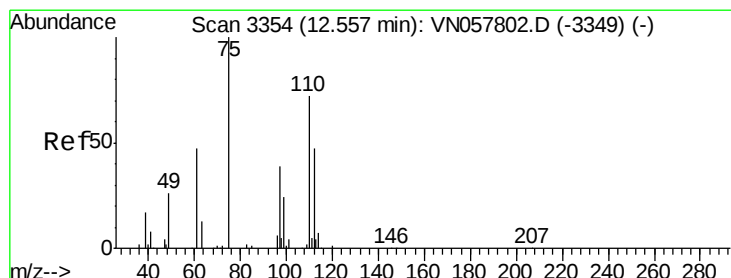
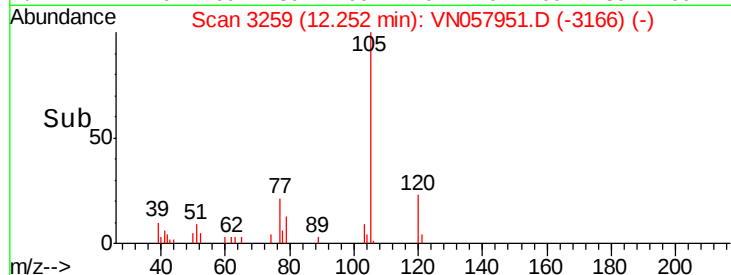
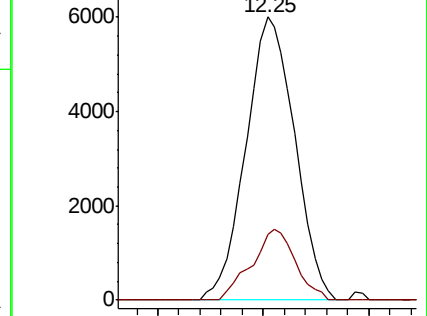
105 100

120 22.5 12.8 38.4



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: 30.970 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN057951.D

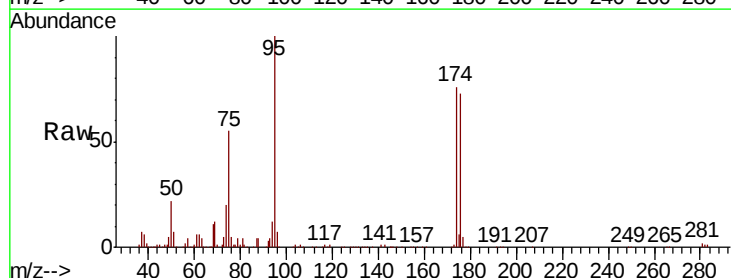
Acq: 12 Sep 2019 1:41

Tgt Ion: 75 Resp: 153905

Ion Ratio Lower Upper

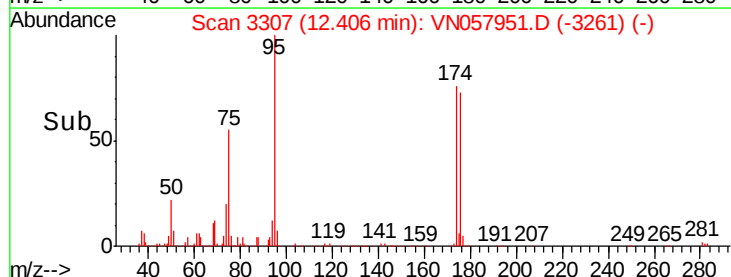
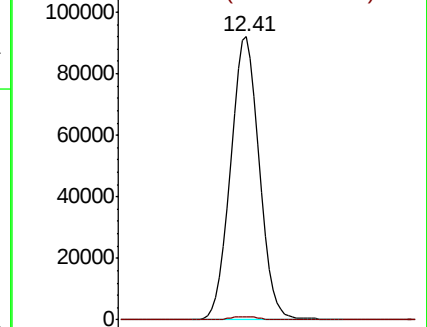
75 100

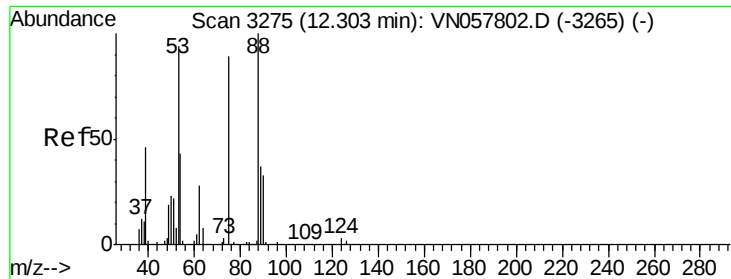
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

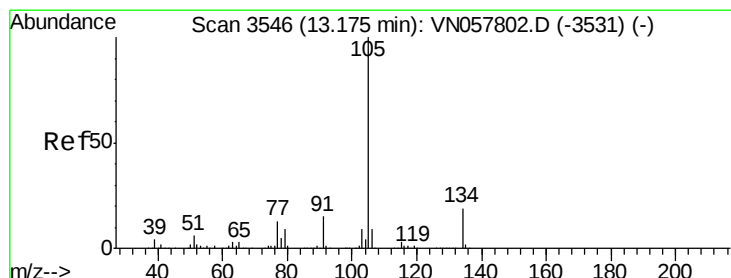
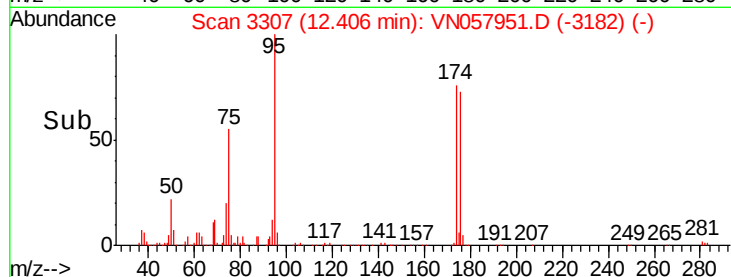
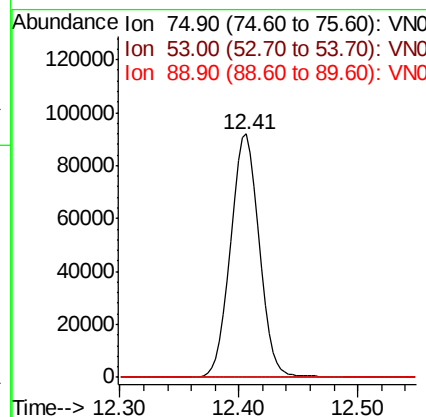
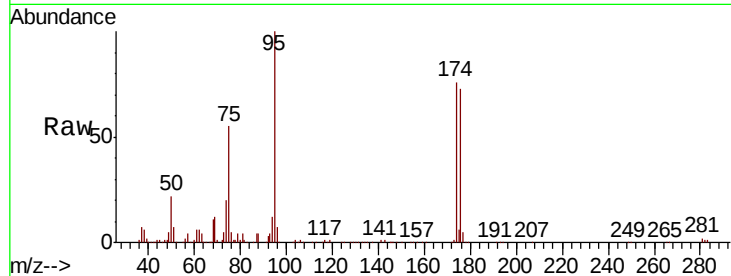




#81
trans-1,4-Dichloro-2-butene
Concen: 108.984 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.10 min
Lab File: VN057951.D
Acq: 12 Sep 2019 1:41

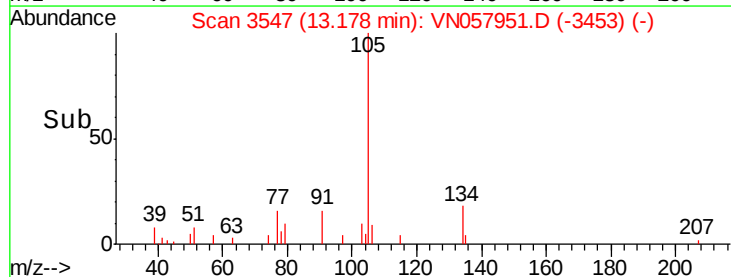
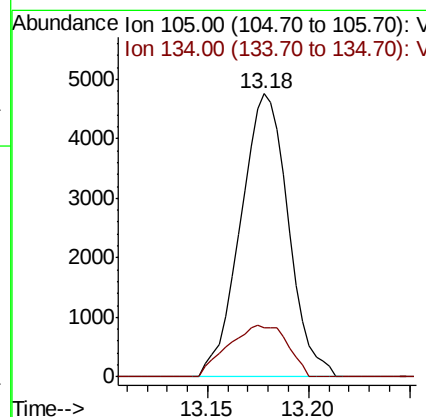
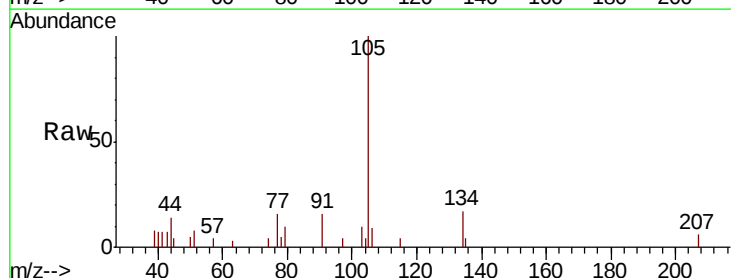
Instrument :
MSVOA_N
ClientSampleId :
TMW-04

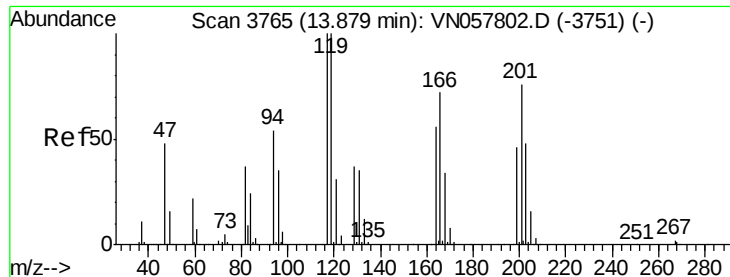
Tgt Ion: 75 Resp: 153905
Ion Ratio Lower Upper
75 100
53 0.0 88.4 132.6#
89 0.1 35.3 52.9#



#85
sec-Butylbenzene
Concen: 0.464 ug/l
RT: 13.18 min Scan# 3547
Delta R.T. 0.00 min
Lab File: VN057951.D
Acq: 12 Sep 2019 1:41

Tgt Ion: 105 Resp: 7879
Ion Ratio Lower Upper
105 100
134 22.5 9.6 28.6





#90

Hexachloroethane

Concen: 1.766 ug/l

RT: 13.96 min Scan# 3789

Delta R.T. 0.08 min

Lab File: VN057951.D

Acq: 12 Sep 2019 1:41

Instrument :

MSVOA_N

ClientSampleId :

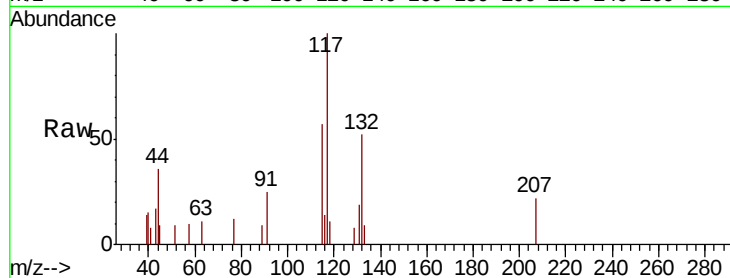
TMW-04

Tgt Ion:117 Resp: 3928

Ion Ratio Lower Upper

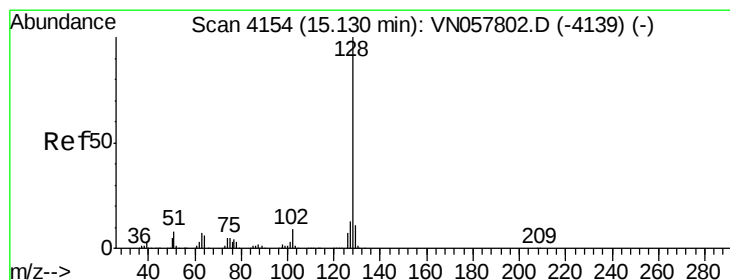
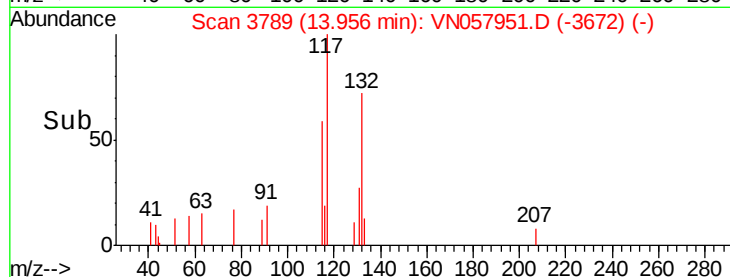
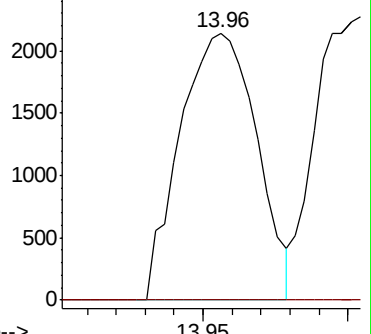
117 100

201 0.0 37.5 112.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN057951.D

Acq: 12 Sep 2019 1:41

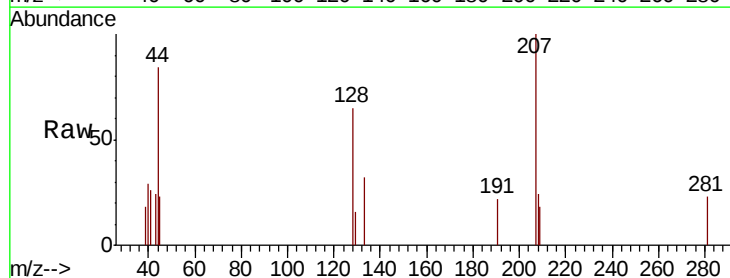
Tgt Ion:128 Resp: 1103

Ion Ratio Lower Upper

128 100

127 11.9 10.3 15.5

129 12.7 8.6 12.8



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

