

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061219\
 Data File : VN056262.D
 Acq On : 12 Jun 2019 20:36
 Operator : JC/SP
 Sample : K3315-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TT101D1-20190610

Quant Time: Jun 13 04:35:51 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	296992	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	448766	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	439564	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	139875	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	152268	51.64	ug/l	0.00
Spiked Amount			Recovery	=	103.28%	
35) Dibromofluoromethane	7.59	113	144368	52.43	ug/l	0.00
Spiked Amount			Recovery	=	104.86%	
50) Toluene-d8	10.09	98	564214	53.25	ug/l	0.00
Spiked Amount			Recovery	=	106.50%	
62) 4-Bromofluorobenzene	12.40	95	177026	49.13	ug/l	0.00
Spiked Amount			Recovery	=	98.26%	

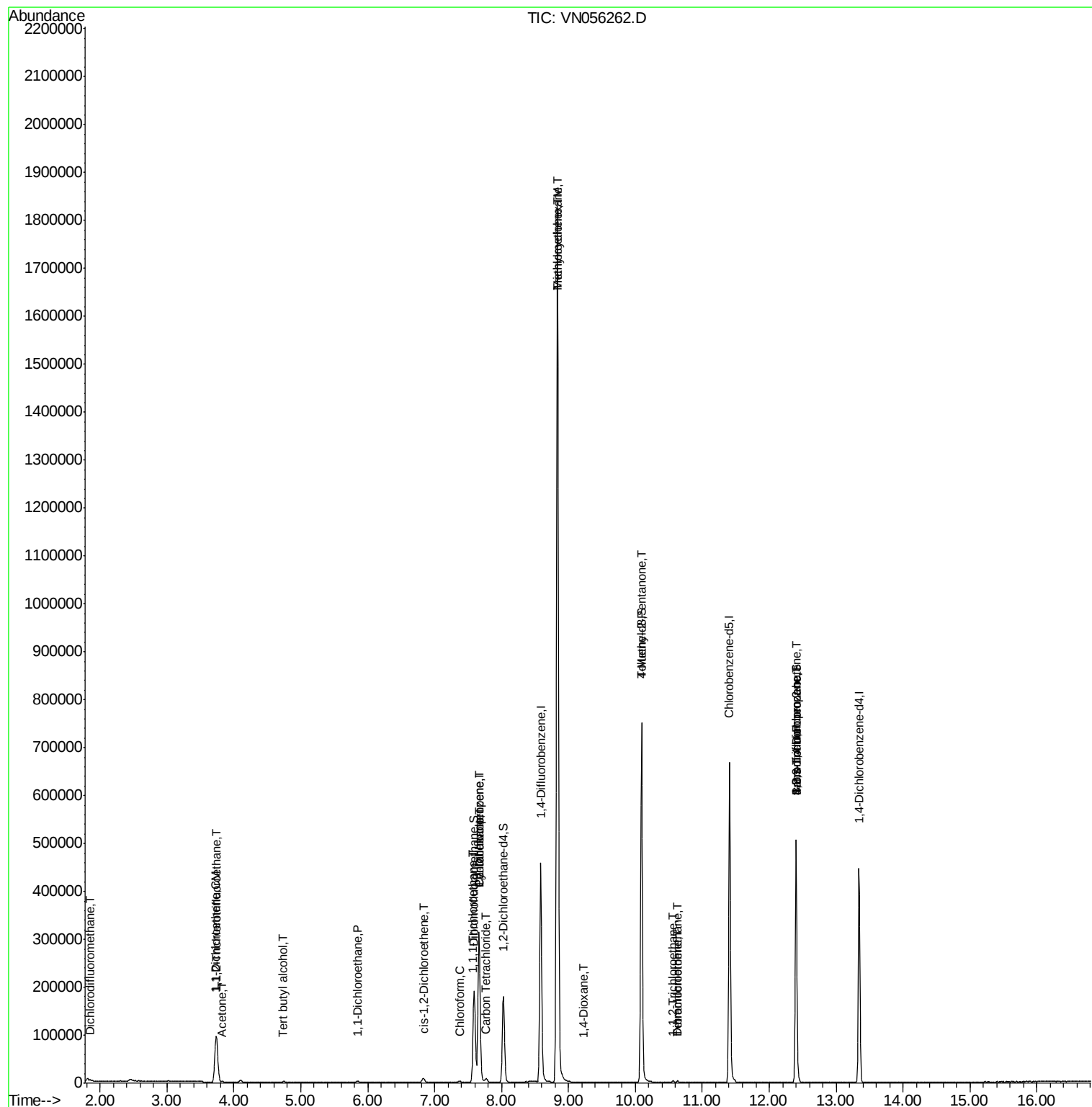
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	2370	1.076	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.74	101	49851	19.906	ug/l	99
11) Tert butyl alcohol	4.74	59	1081	2.107	ug/l #	74
12) 1,1-Dichloroethene	3.72	96	19309	7.745	ug/l	95
16) Acetone	3.83	43	3183	2.257	ug/l	99
18) Methyl Acetate	4.33	43	1573	Below Cal	#	51
24) 1,1-Dichloroethane	5.85	63	5593	1.191	ug/l #	83
27) cis-1,2-Dichloroethene	6.83	96	6344	2.020	ug/l	91
30) Chloroform	7.38	83	3893	0.824	ug/l	94
31) Cyclohexane	7.66	56	3960	0.846	ug/l #	1
32) 1,1,1-Trichloroethane	7.57	97	2108	0.535	ug/l #	42
36) 1,1-Dichloropropene	7.66	75	17045	4.417	ug/l #	47
38) Carbon Tetrachloride	7.77	117	5566	1.565	ug/l	93
39) Methylcyclohexane	8.83	83	7527	1.566	ug/l #	1
44) Trichloroethene	8.83	130	756673	224.685	ug/l	98
49) 1,4-Dioxane	9.21	88	577	9.819	ug/l	90
51) 4-Methyl-2-Pentanone	10.09	43	2104	0.605	ug/l #	1
55) 1,1,2-Trichloroethane	10.56	97	1517	0.525	ug/l #	92
60) Dibromochloromethane	10.63	129	829	2.699	ug/l #	11
64) Tetrachloroethene	10.63	164	924	0.243	ug/l	94
71) Bromoform	12.40	173	1284	3.221	ug/l #	1
73) Isopropylbenzene	12.40	105	29	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	80156	31.144	ug/l #	100
79) 2-Chlorotoluene	12.40	91	532	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	80156	103.714	ug/l #	15

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

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Quant Title : SW846 8260
QLast Update : Tue Jun 04 11:02:09 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056262.D

Acq: 12 Jun 2019 20:36

Instrument :

MSVOA_N

ClientSampleId :

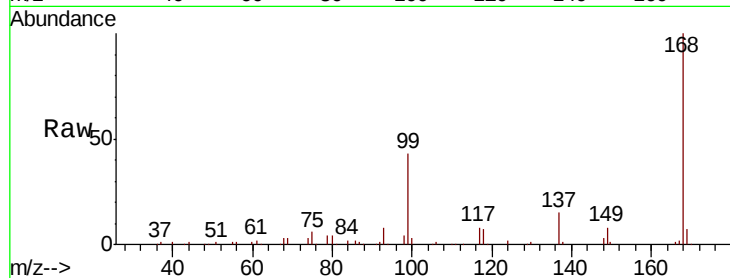
TT101D1-20190610

Tot Ion:168 Resp: 296992

Ion Ratio Lower Upper

168 100

99 43.2 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

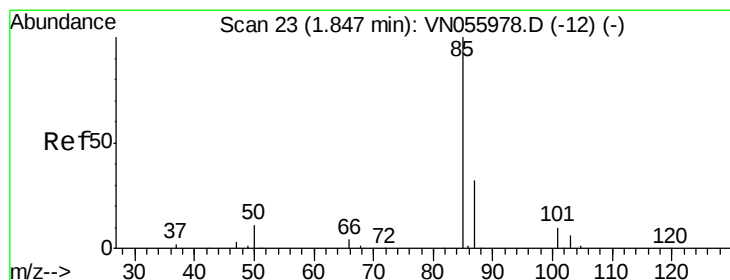
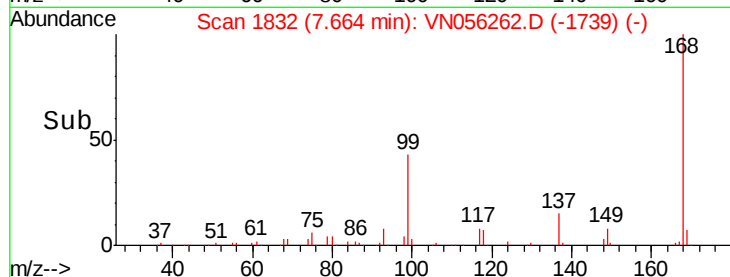
7.66

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 1.076 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN056262.D

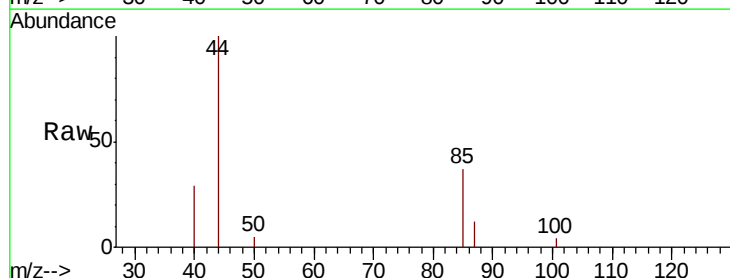
Acq: 12 Jun 2019 20:36

Tgt Ion: 85 Resp: 2370

Ion Ratio Lower Upper

85 100

87 31.6 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0

1.85

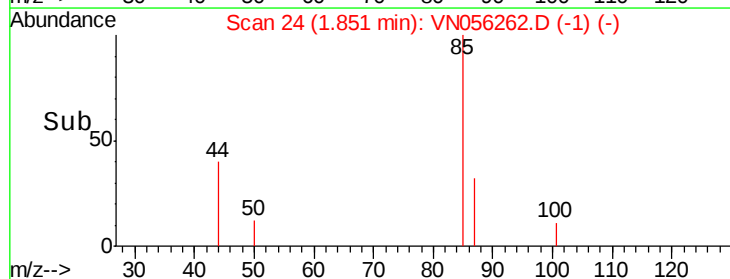
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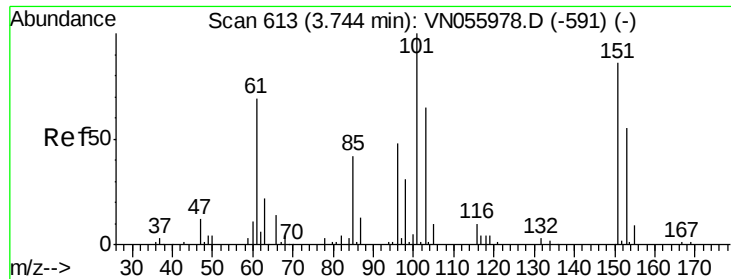
1000

500

0

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.906 ug/l

RT: 3.74 min Scan# 613

Delta R.T. 0.00 min

Lab File: VN056262.D

Acq: 12 Jun 2019 20:36

Instrument :

MSVOA_N

ClientSampleId :

TT101D1-20190610

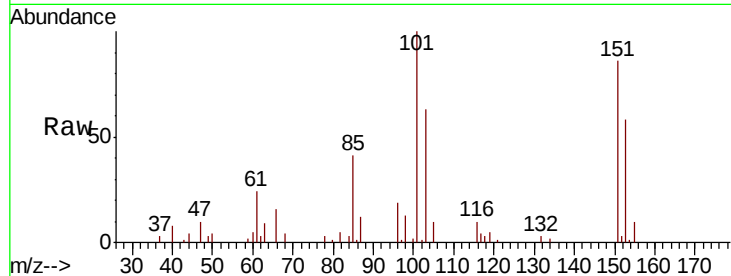
Tot Ion:101 Resp: 49851

Ion Ratio Lower Upper

101 100

85 40.0 33.4 50.2

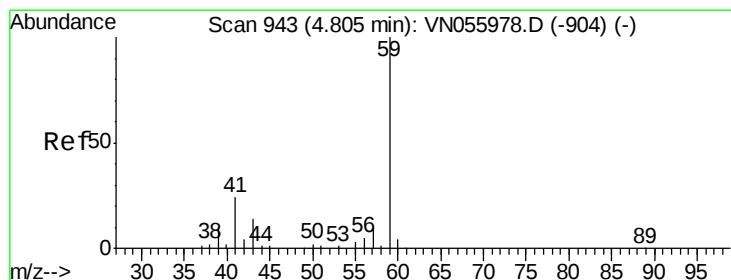
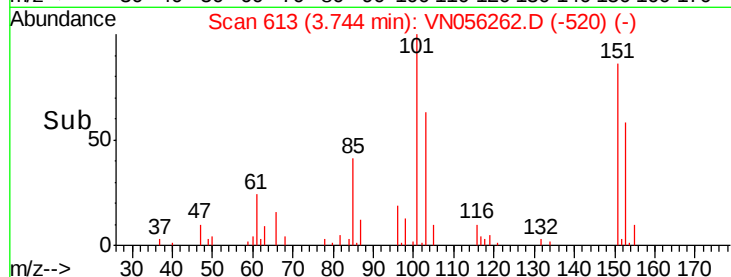
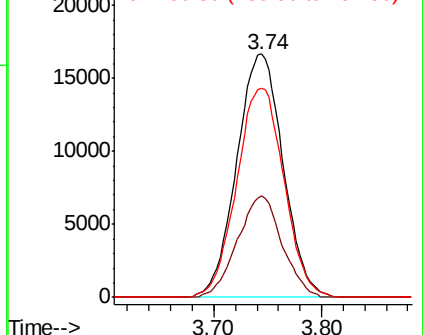
151 87.5 69.4 104.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 2.107 ug/l

RT: 4.74 min Scan# 924

Delta R.T. -0.06 min

Lab File: VN056262.D

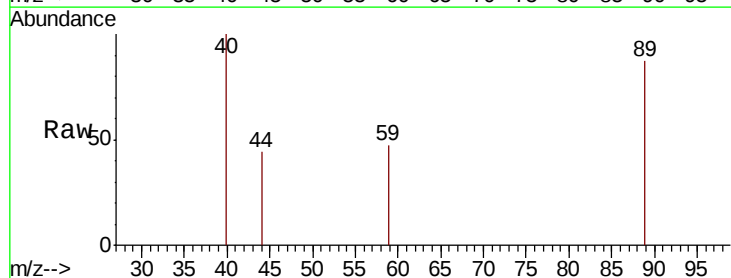
Acq: 12 Jun 2019 20:36

Tgt Ion: 59 Resp: 1081

Ion Ratio Lower Upper

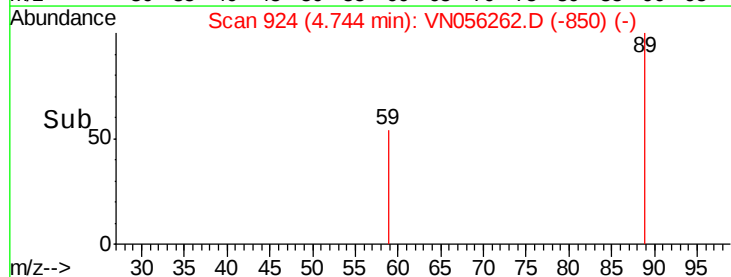
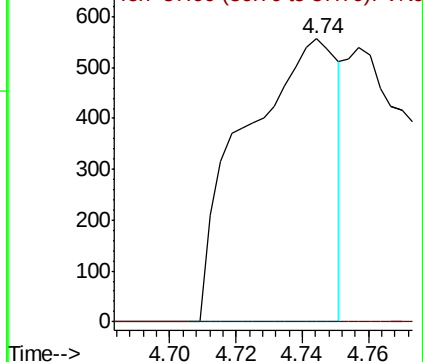
59 100

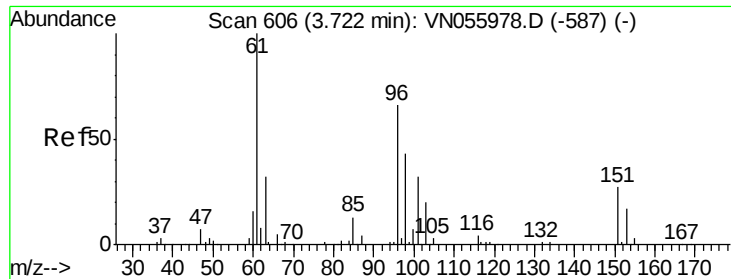
57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

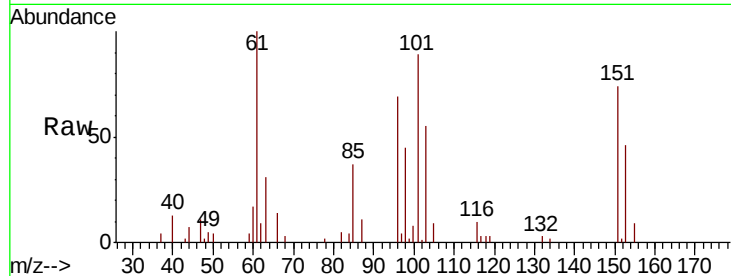




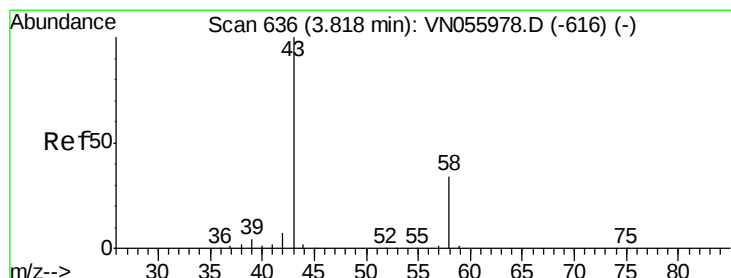
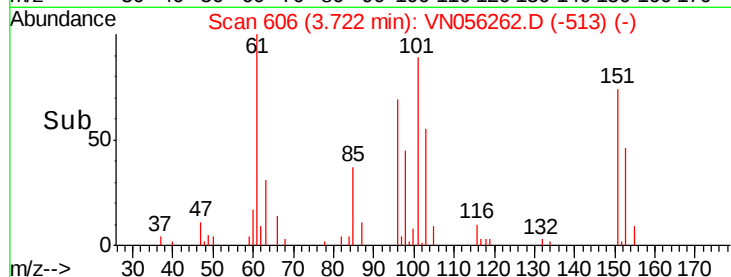
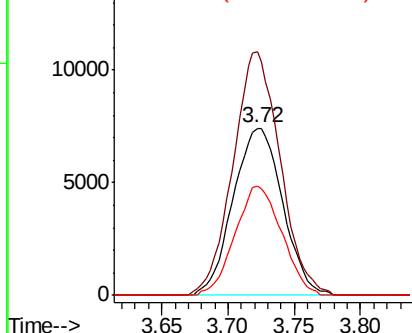
#12
 1,1-Dichloroethene
 Concen: 7.745 ug/l
 RT: 3.72 min Scan# 606
 Delta R.T. 0.00 min
 Lab File: VN056262.D
 Acq: 12 Jun 2019 20:36

Instrument :
 MSVOA_N
 ClientSampleId :
 TT101D1-20190610

Tot Ion	Ratio	Lower	Upper
96	100		
61	145.9	123.2	184.8
98	65.7	50.4	75.6

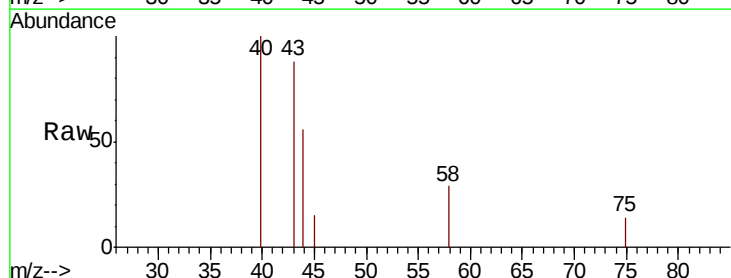


Abundance Ion 95.90 (95.60 to 96.60): VNO
 Ion 60.90 (60.60 to 61.60): VNO
 Ion 97.90 (97.60 to 98.60): VNO

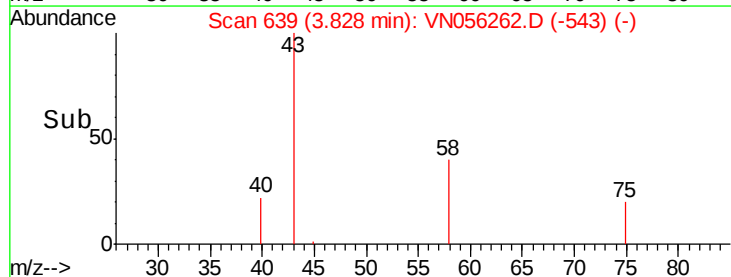
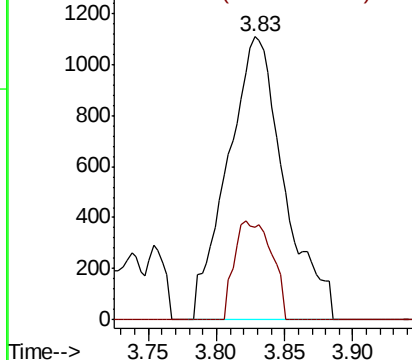


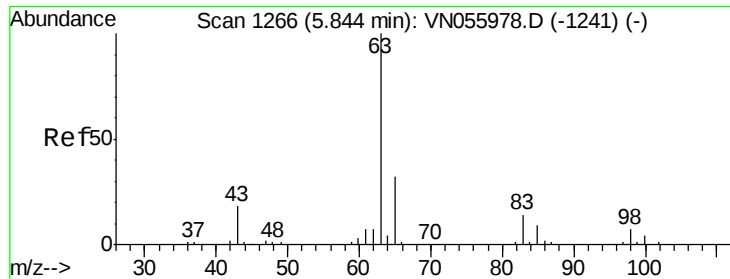
#16
 Acetone
 Concen: 2.257 ug/l
 RT: 3.83 min Scan# 639
 Delta R.T. 0.01 min
 Lab File: VN056262.D
 Acq: 12 Jun 2019 20:36

Tgt Ion	Ratio	Lower	Upper
43	100		
58	32.7	26.6	39.8



Abundance Ion 43.00 (42.70 to 43.70): VNO
 Ion 58.00 (57.70 to 58.70): VNO

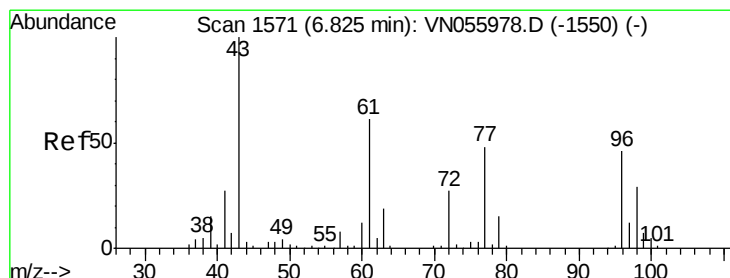
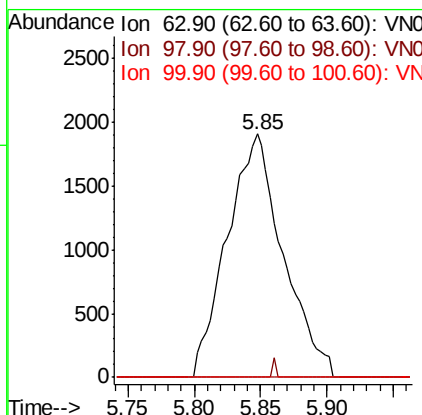
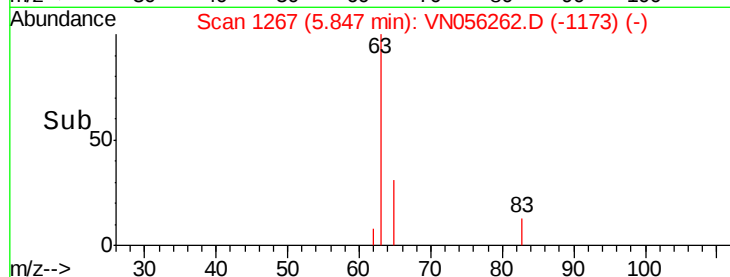
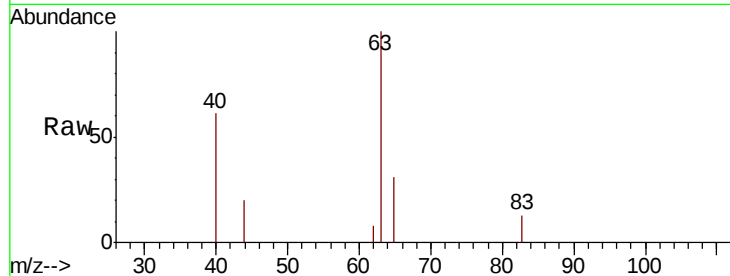




#24
 1,1-Dichloroethane
 Concen: 1.191 ug/l
 RT: 5.85 min Scan# 1267
 Delta R.T. 0.00 min
 Lab File: VN056262.D
 Acq: 12 Jun 2019 20:36

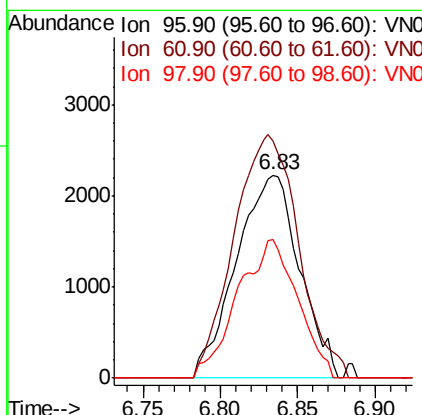
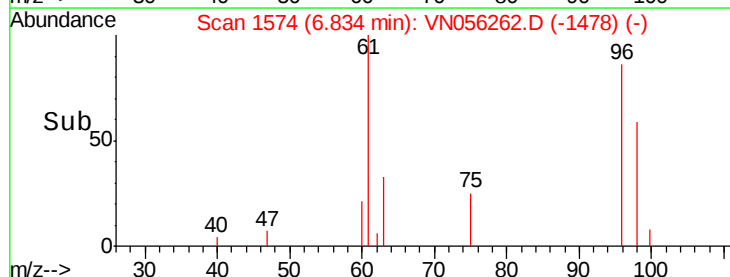
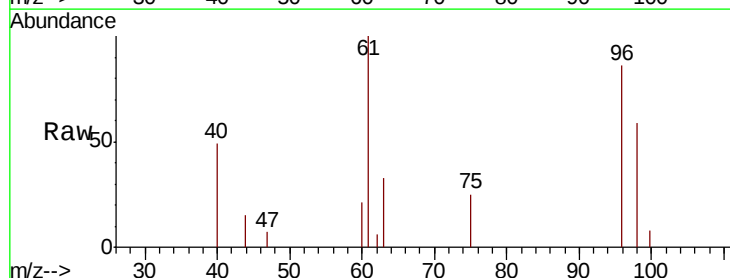
Instrument :
 MSVOA_N
 ClientSampleId :
 TT101D1-20190610

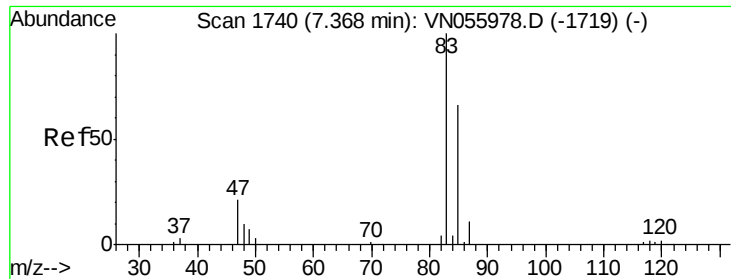
Tot Ion: 63 Resp: 5593
 Ion Ratio Lower Upper
 63 100
 98 0.0 3.4 10.1#
 100 0.0 2.2 6.6#



#27
 cis-1,2-Dichloroethene
 Concen: 2.020 ug/l
 RT: 6.83 min Scan# 1574
 Delta R.T. 0.01 min
 Lab File: VN056262.D
 Acq: 12 Jun 2019 20:36

Tgt Ion: 96 Resp: 6344
 Ion Ratio Lower Upper
 96 100
 61 121.9 0.0 275.8
 98 64.5 0.0 128.4

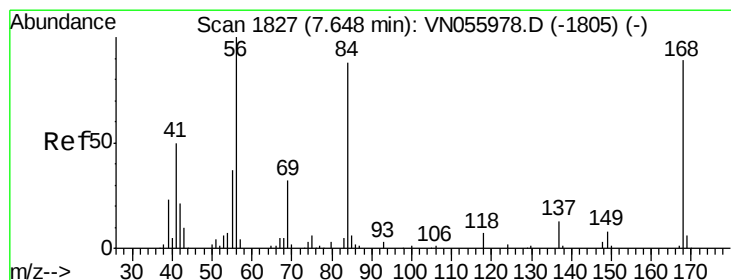
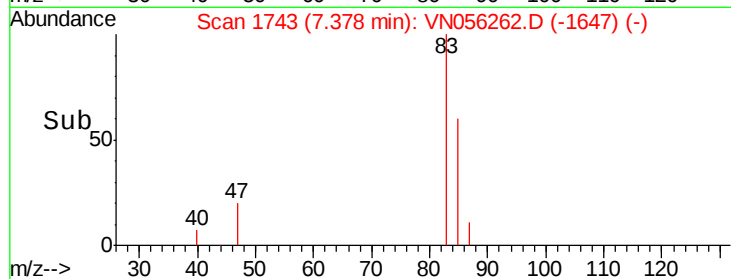
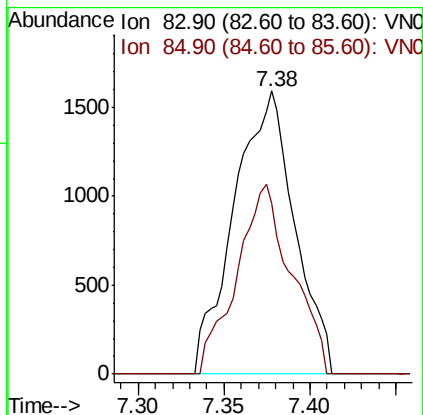
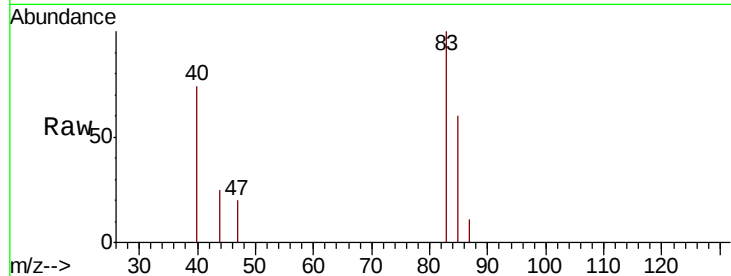




#30
Chloroform
Concen: 0.824 ug/l
RT: 7.38 min Scan# 1743
Delta R.T. 0.01 min
Lab File: VN056262.D
Acq: 12 Jun 2019 20:36

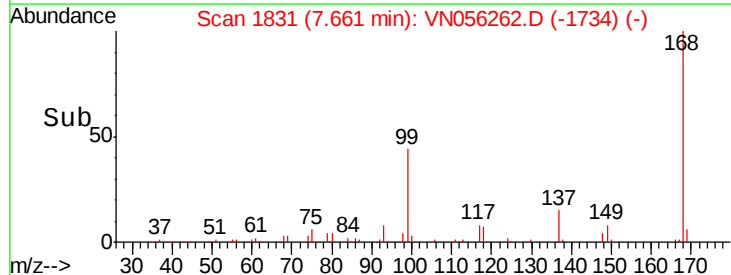
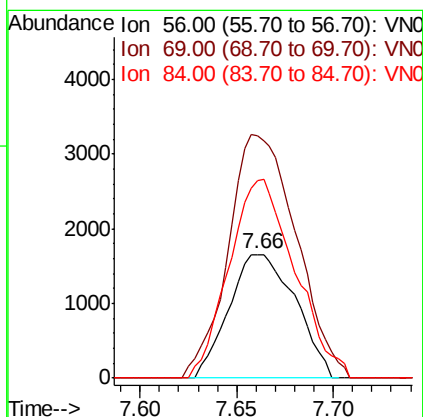
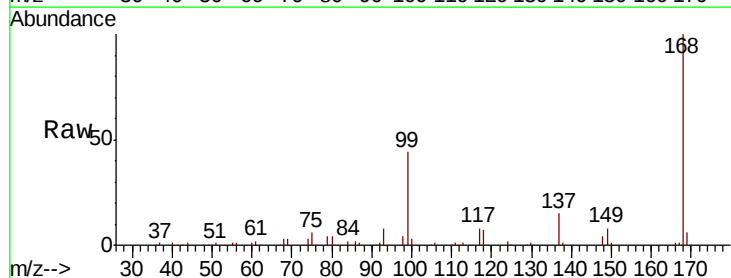
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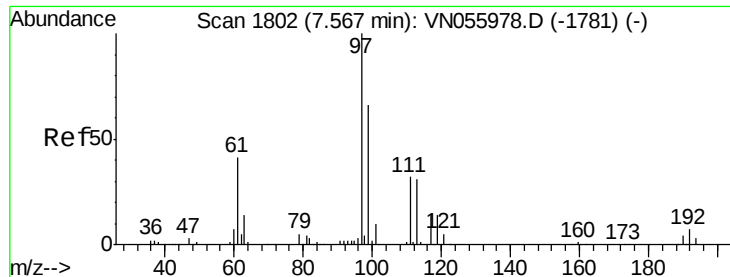
Tot Ion: 83 Resp: 3893
Ion Ratio Lower Upper
83 100
85 60.1 51.8 77.8



#31
Cyclohexane
Concen: 0.846 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN056262.D
Acq: 12 Jun 2019 20:36

Tgt Ion: 56 Resp: 3960
Ion Ratio Lower Upper
56 100
69 186.5 25.6 38.4#
84 159.7 67.4 101.0#

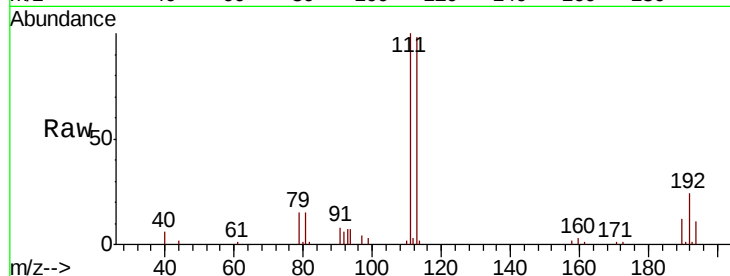




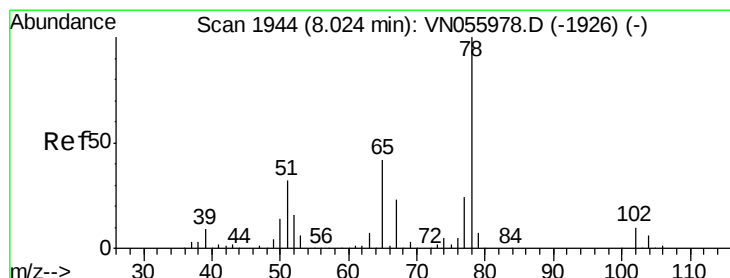
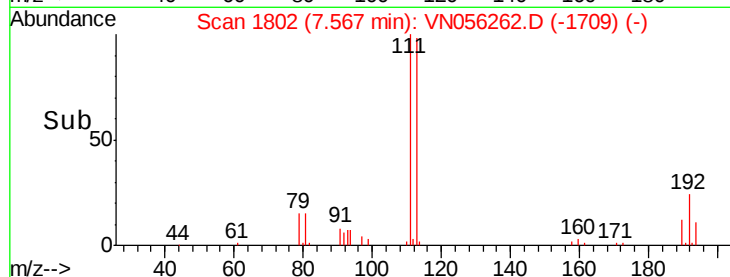
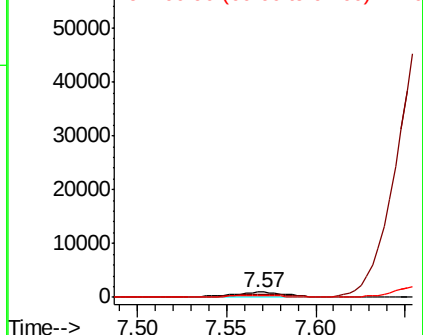
#32
 1,1,1-Trichloroethane
 Concen: 0.535 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN056262.D
 Acq: 12 Jun 2019 20:36

Instrument :
 MSVOA_N
 ClientSampleId :
 TT101D1-20190610

Tot Ion: 97 Resp: 2108
 Ion Ratio Lower Upper
 97 100
 99 0.0 52.0 78.0#
 61 29.3 32.9 49.3#

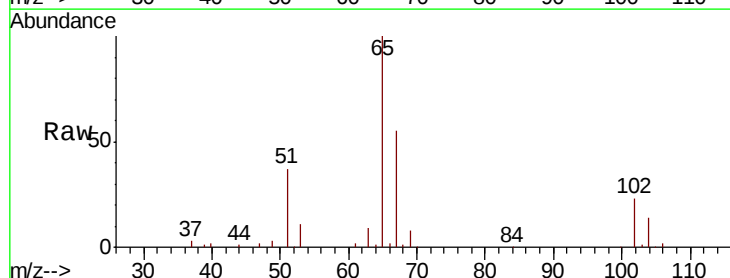


Abundance Ion 96.90 (96.60 to 97.60): VNC
 Ion 98.90 (98.60 to 99.60): VNC
 Ion 60.90 (60.60 to 61.60): VNC

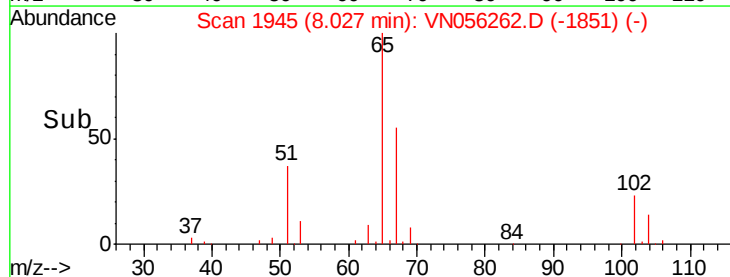
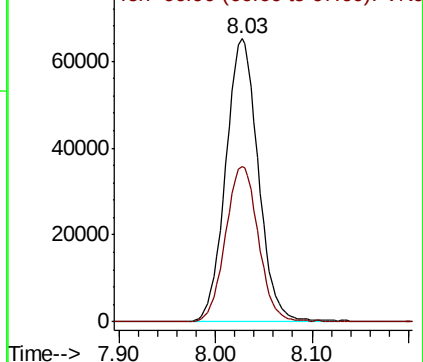


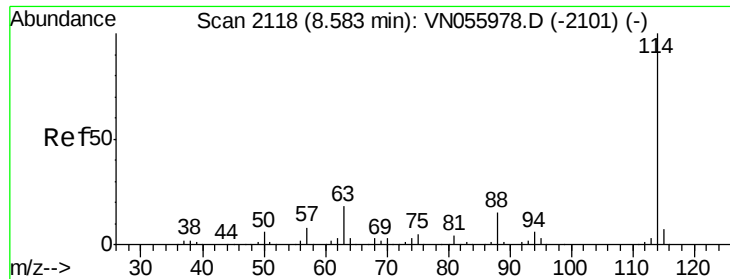
#33
 1,2-Dichloroethane-d4
 Concen: 51.636 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056262.D
 Acq: 12 Jun 2019 20:36

Tgt Ion: 65 Resp: 152268
 Ion Ratio Lower Upper
 65 100
 67 55.2 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VNC
 Ion 66.90 (66.60 to 67.60): VNC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN056262.D

Acq: 12 Jun 2019 20:36

Instrument :

MSVOA_N

ClientSampleId :

TT101D1-20190610

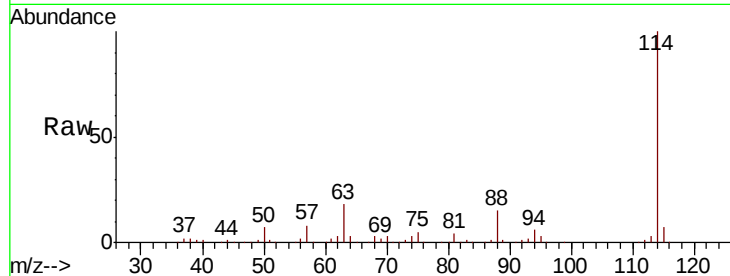
Tot Ion:114 Resp: 448766

Ion Ratio Lower Upper

114 100

63 18.3 0.0 39.2

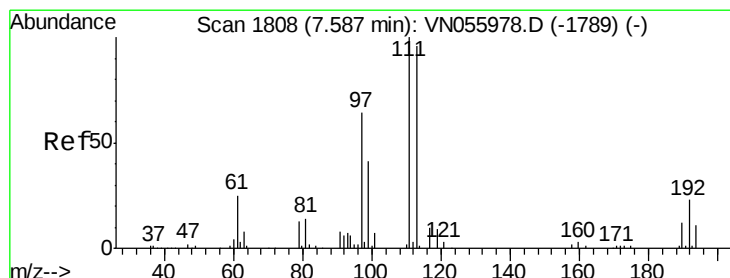
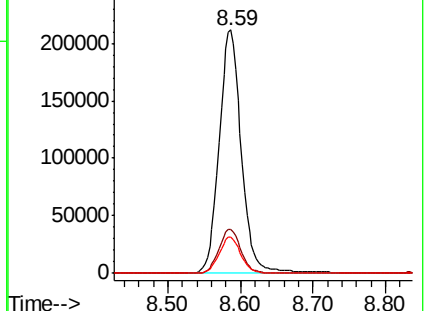
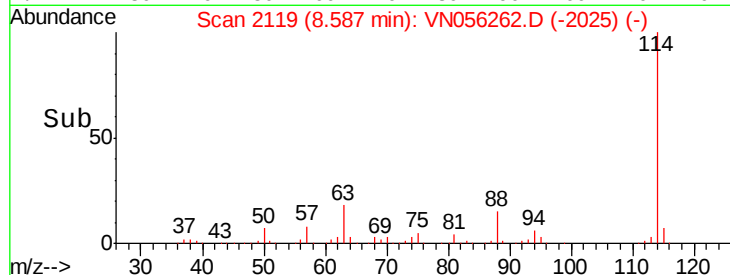
88 14.7 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 52.434 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN056262.D

Acq: 12 Jun 2019 20:36

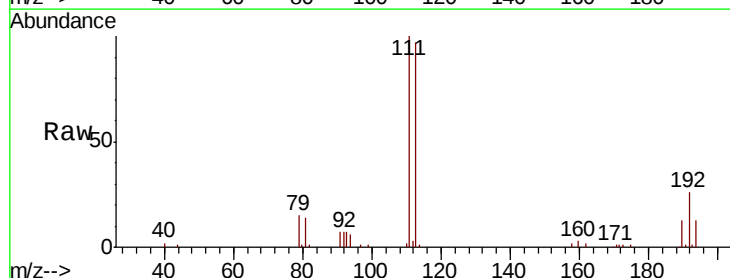
Tgt Ion:113 Resp: 144368

Ion Ratio Lower Upper

113 100

111 102.0 81.9 122.9

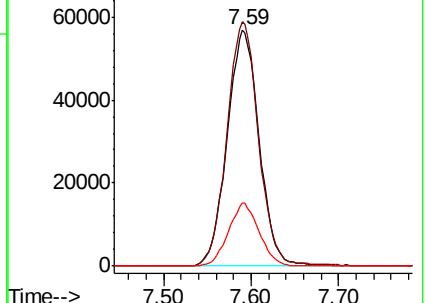
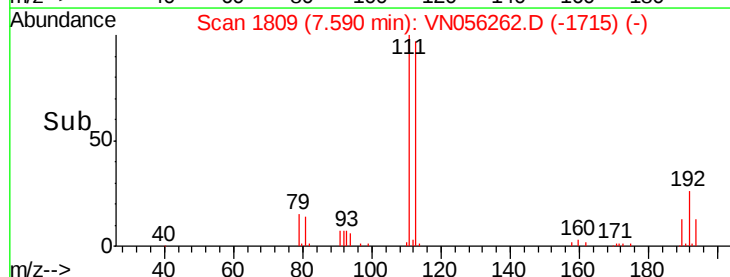
192 25.5 19.5 29.3

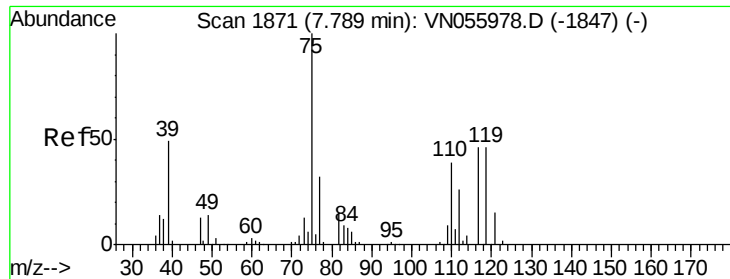


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

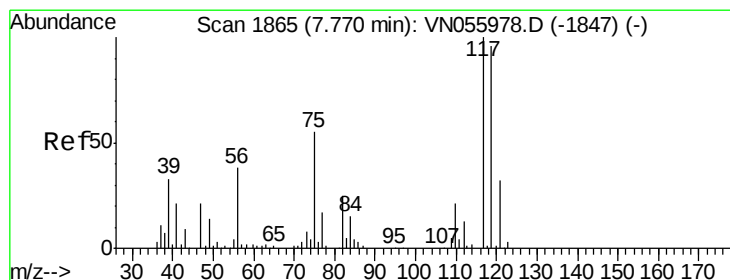
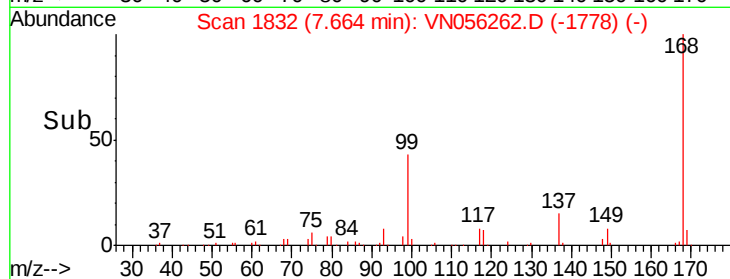
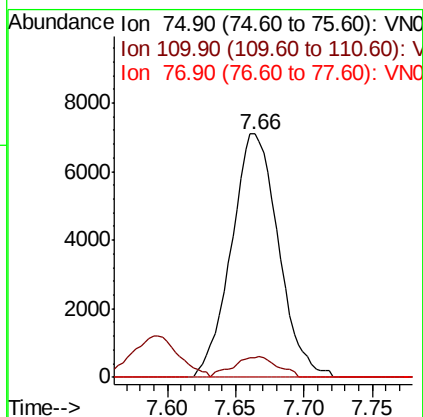
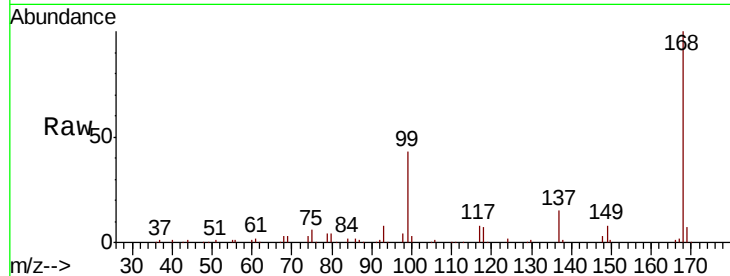




#36
 1,1-Dichloropropene
 Concen: 4.417 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056262.D
 Acq: 12 Jun 2019 20:36

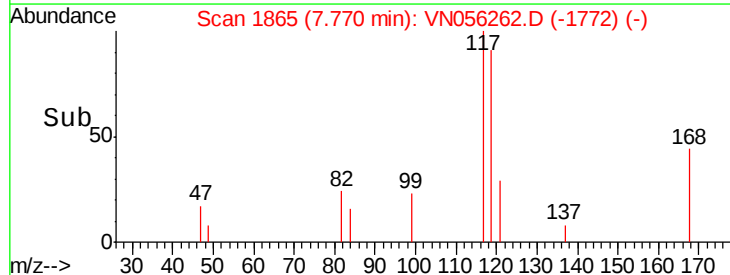
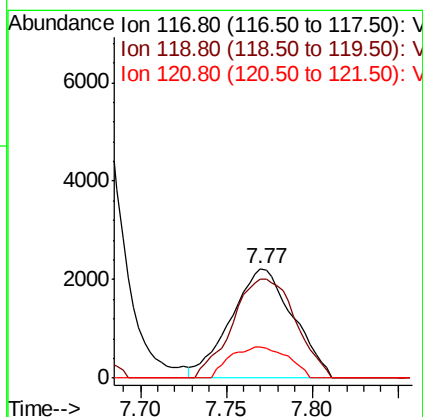
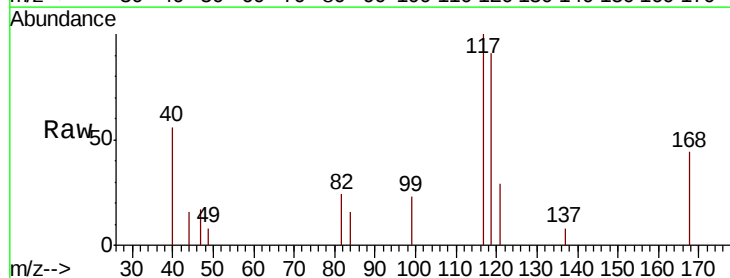
Instrument :
 MSVOA_N
 ClientSampleId :
 TT101D1-20190610

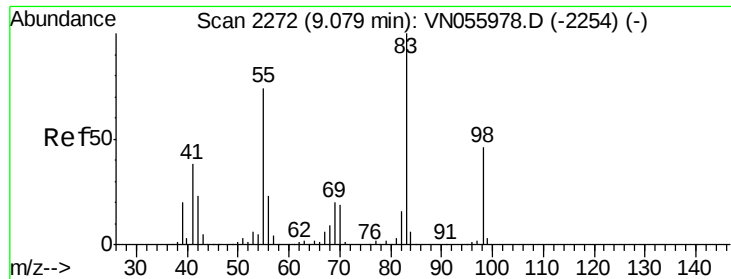
Tot Ion	75	Resp	17045
Ion Ratio	Lower	Upper	
75	100		
110	7.8	19.0	57.0#
77	0.0	25.1	37.7#



#38
 Carbon Tetrachloride
 Concen: 1.565 ug/l
 RT: 7.77 min Scan# 1865
 Delta R.T. 0.00 min
 Lab File: VN056262.D
 Acq: 12 Jun 2019 20:36

Tgt Ion	117	Resp	5566
Ion Ratio	Lower	Upper	
117	100		
119	90.9	79.0	118.6
121	29.0	24.7	37.1

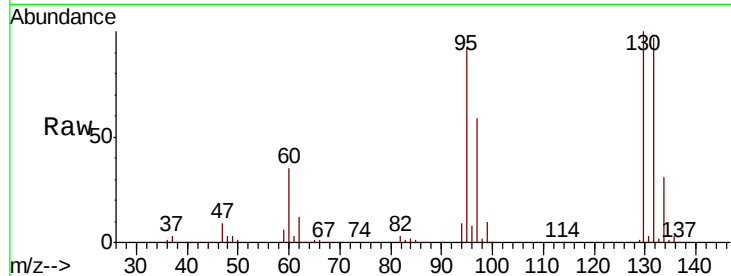




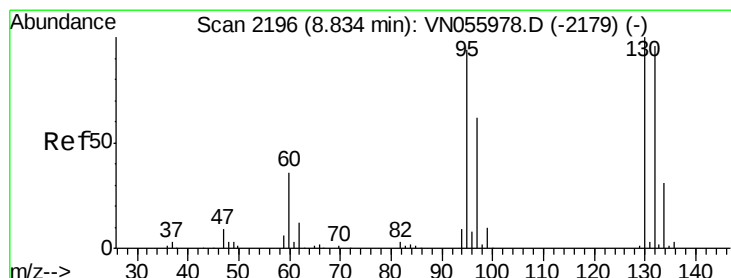
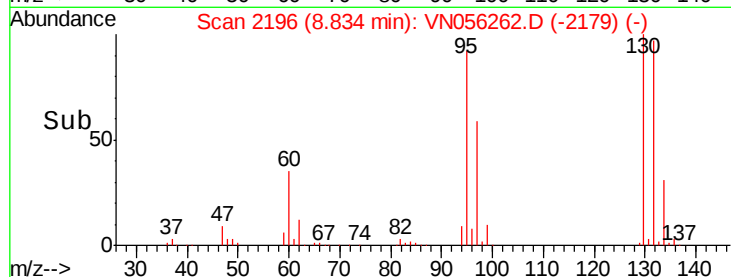
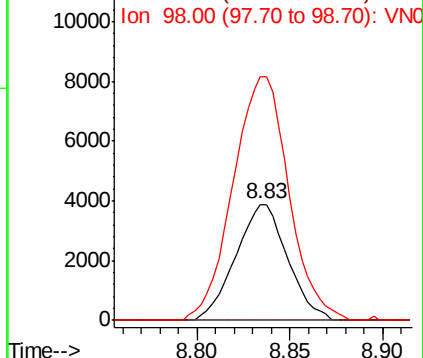
#39
Methvlcvclohexane
Concen: 1.566 ug/l
RT: 8.83 min Scan# 2196
Delta R.T. -0.24 min
Lab File: VN056262.D
Acq: 12 Jun 2019 20:36

Instrument :
MSVOA_N
ClientSampleId :
TT101D1-20190610

Tot Ion: 83 Resp: 7527
Ion Ratio Lower Upper
83 100
55 0.0 59.3 88.9#
98 204.7 36.6 54.8#

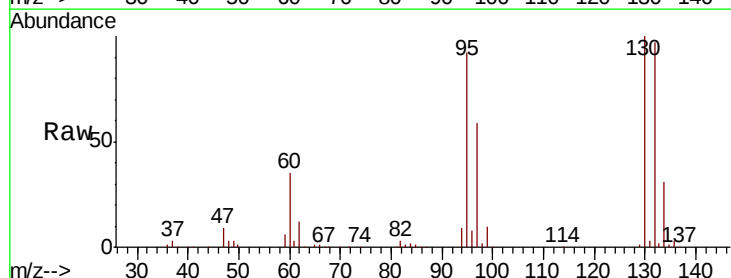


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

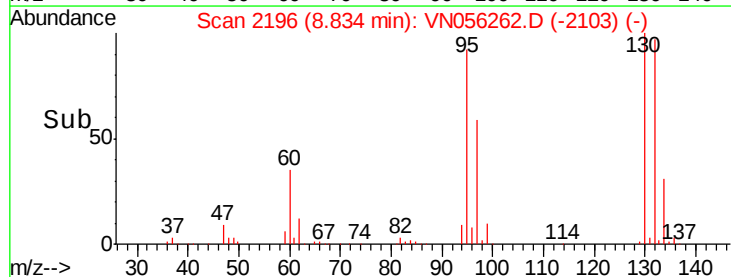
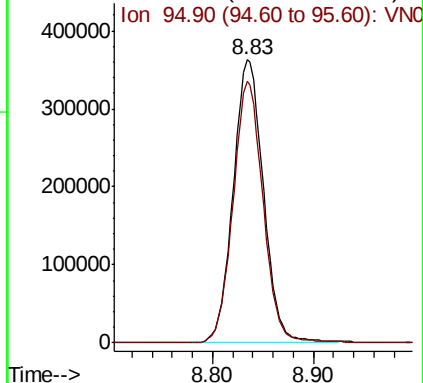


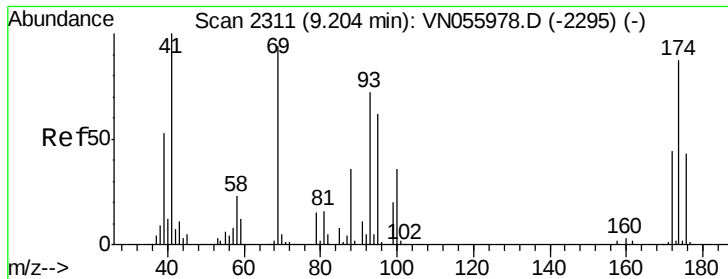
#44
Trichloroethene
Concen: 224.685 ug/l
RT: 8.83 min Scan# 2196
Delta R.T. 0.00 min
Lab File: VN056262.D
Acq: 12 Jun 2019 20:36

Tgt Ion:130 Resp: 756673
Ion Ratio Lower Upper
130 100
95 92.3 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VN0

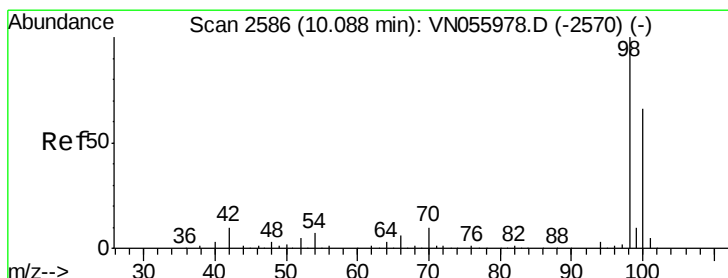
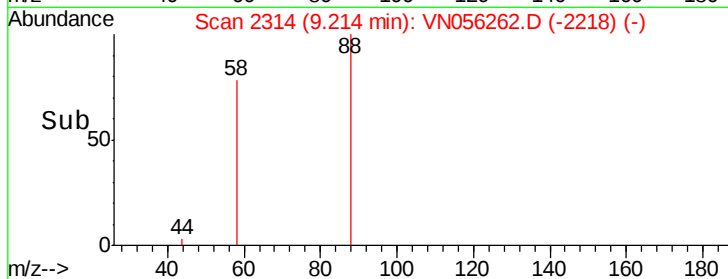
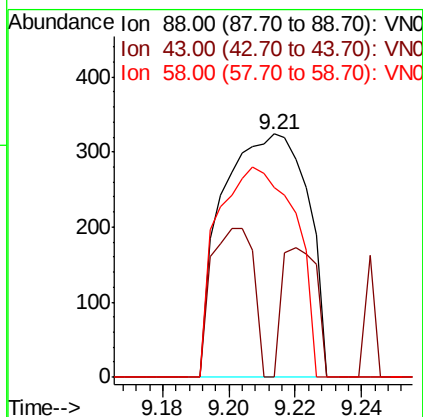
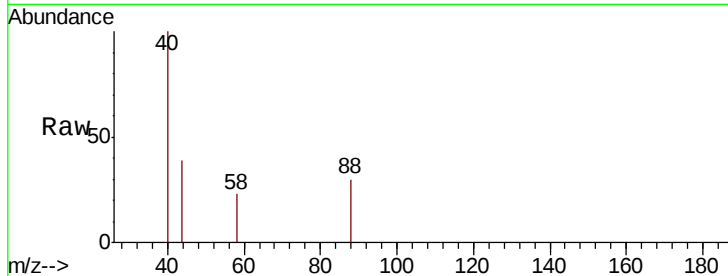




#49
1,4-Dioxane
Concen: 9.819 ug/l
RT: 9.21 min Scan# 2314
Delta R.T. 0.01 min
Lab File: VN056262.D
Acq: 12 Jun 2019 20:36

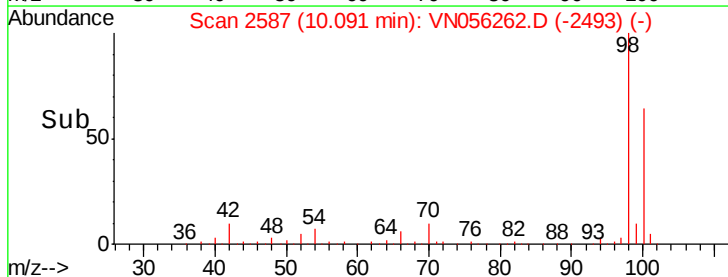
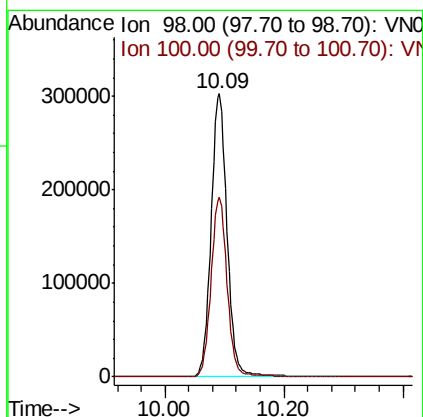
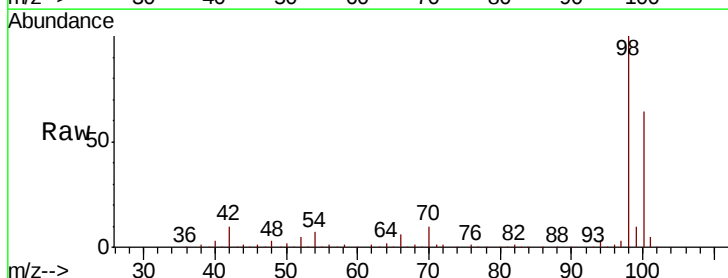
Instrument :
MSVOA_N
ClientSampleId :
TT101D1-20190610

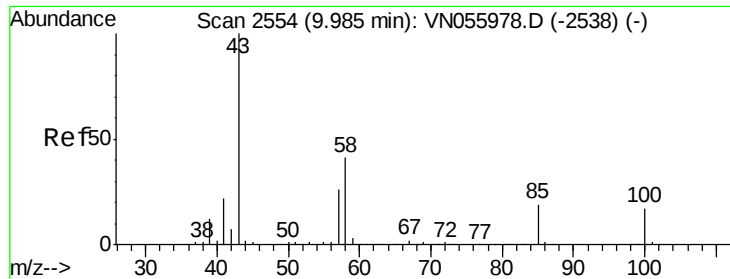
Tot Ion: 88 Resp: 577
Ion Ratio Lower Upper
88 100
43 21.8 20.5 30.7
58 79.2 55.8 83.6



#50
Toluene-d8
Concen: 53.254 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN056262.D
Acq: 12 Jun 2019 20:36

Tgt Ion: 98 Resp: 564214
Ion Ratio Lower Upper
98 100
100 63.3 51.9 77.9

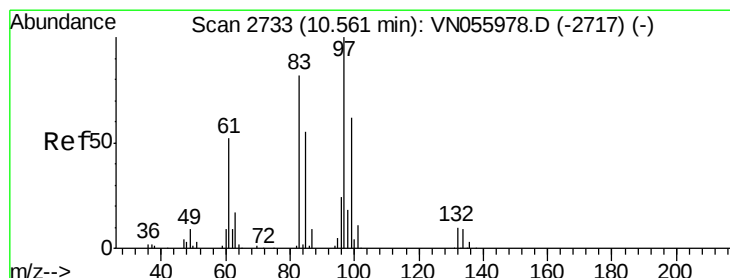
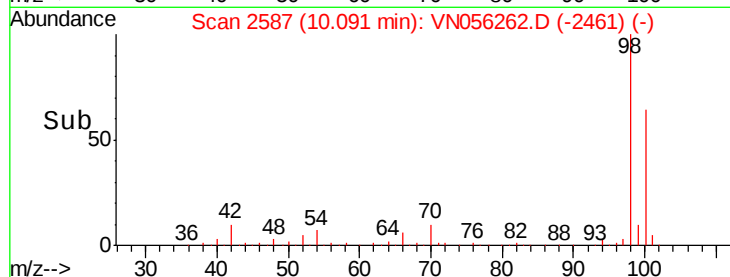
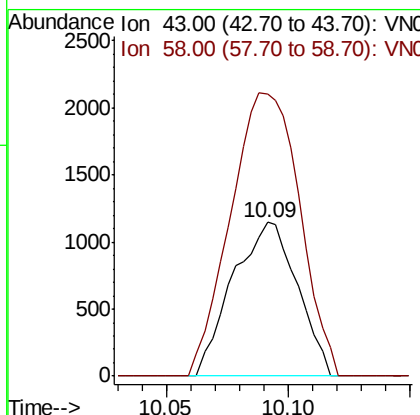
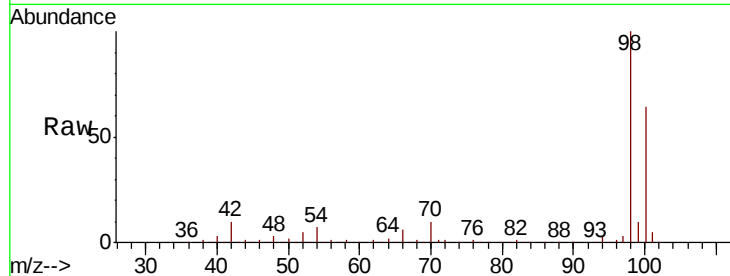




#51
 4-Methyl-2-Pentanone
 Concen: 0.605 ug/l
 RT: 10.09 min Scan# 2587
 Delta R.T. 0.11 min
 Lab File: VN056262.D
 Acq: 12 Jun 2019 20:36

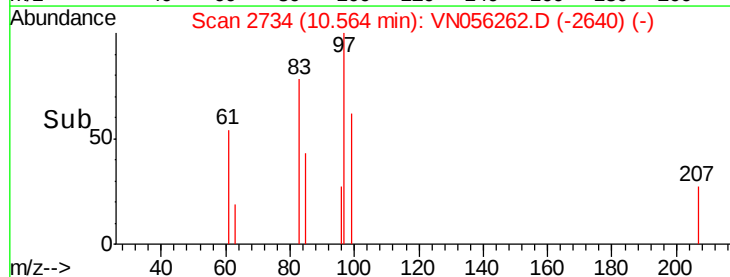
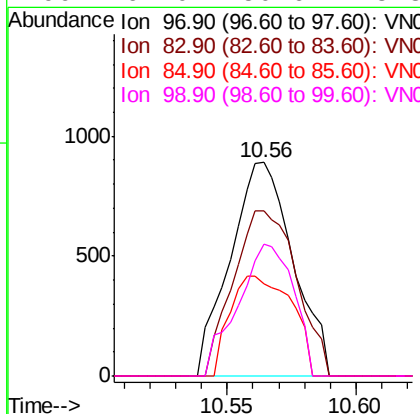
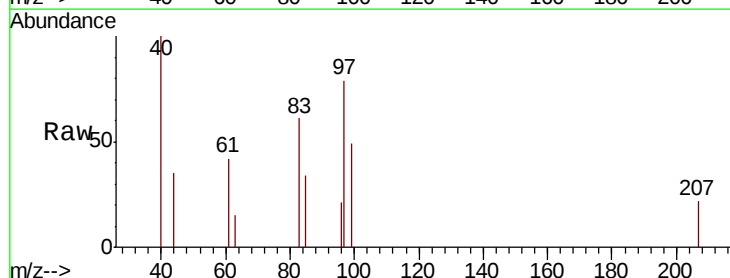
Instrument :
 MSVOA_N
 ClientSampleId :
 TT101D1-20190610

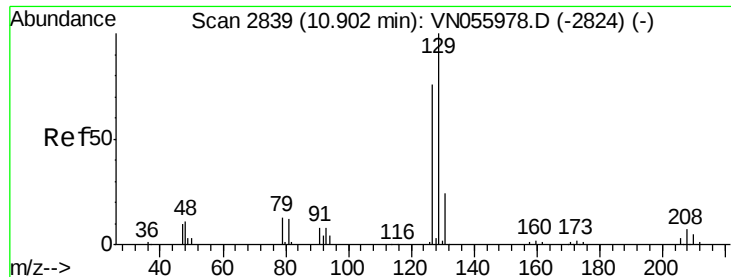
Tot Ion: 43 Resp: 2104
 Ion Ratio Lower Upper
 43 100
 58 197.3 32.1 48.1#



#55
 1,1,2-Trichloroethane
 Concen: 0.525 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN056262.D
 Acq: 12 Jun 2019 20:36

Tgt Ion: 97 Resp: 1517
 Ion Ratio Lower Upper
 97 100
 83 77.6 67.0 100.6
 85 43.1 44.0 66.0#
 99 62.0 50.6 75.8





#60

Dibromochloromethane

Concen: 2.699 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.27 min

Lab File: VN056262.D

Acq: 12 Jun 2019 20:36

Instrument :

MSVOA_N

ClientSampleId :

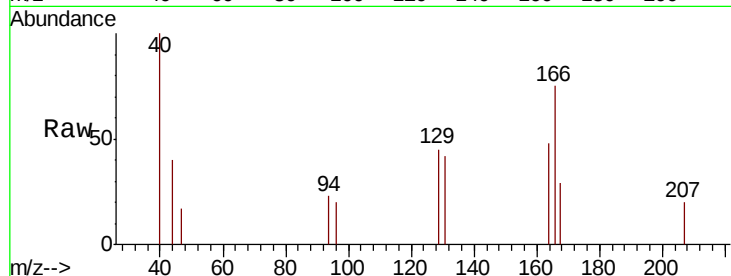
TT101D1-20190610

Tot Ion:129 Resp: 829

Ion Ratio Lower Upper

129 100

127 0.0 38.1 114.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.63

500

400

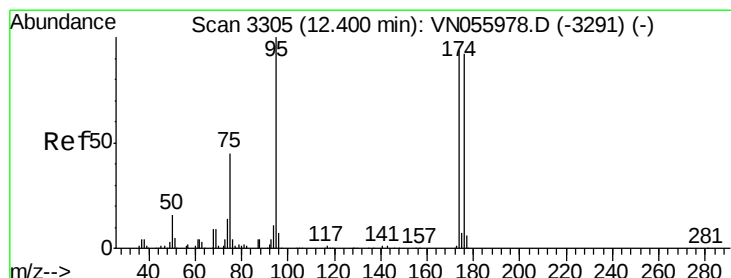
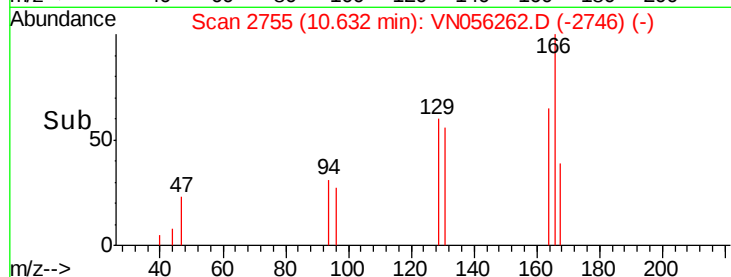
300

200

100

0

Time--> 10.60 10.65



#62

4-Bromofluorobenzene

Concen: 49.132 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN056262.D

Acq: 12 Jun 2019 20:36

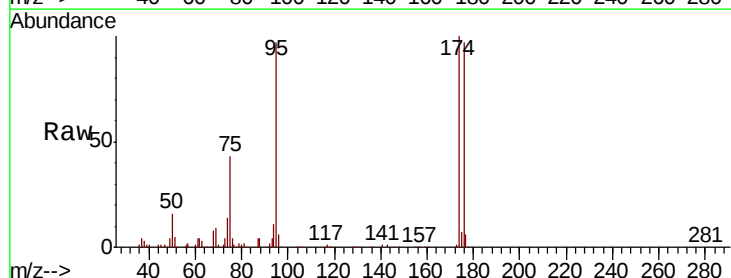
Tgt Ion: 95 Resp: 177026

Ion Ratio Lower Upper

95 100

174 101.6 0.0 191.0

176 98.6 0.0 185.2



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

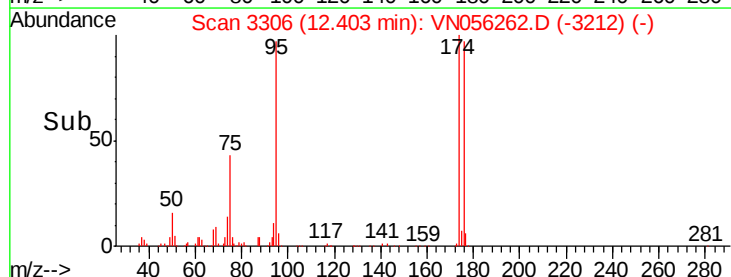
Ion 175.80 (175.50 to 176.50): V

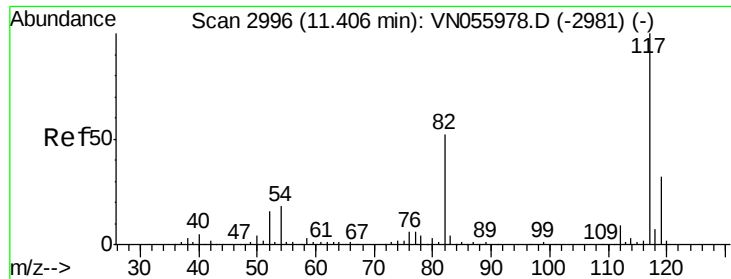
100000

50000

0

Time--> 12.30 12.40 12.50

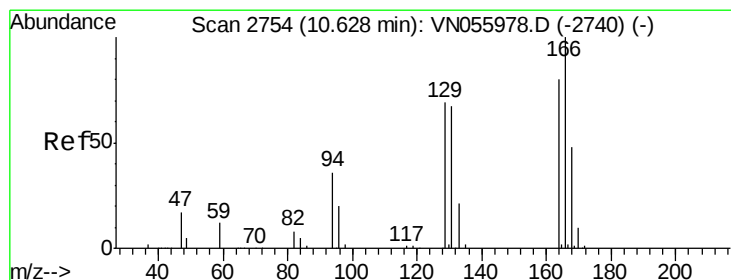
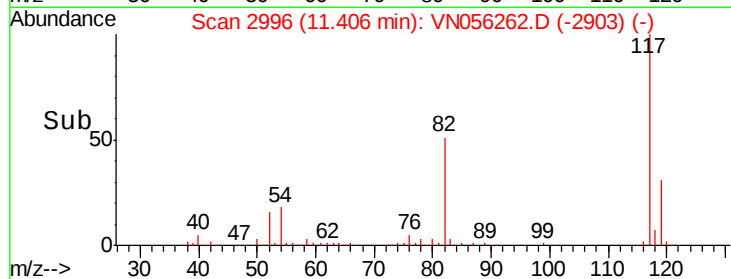
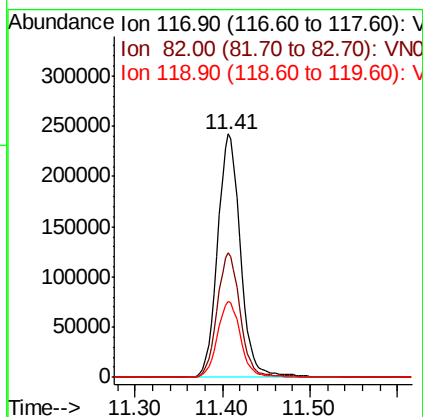
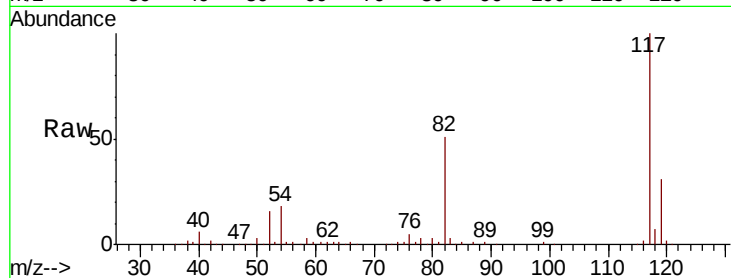




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056262.D
Acq: 12 Jun 2019 20:36

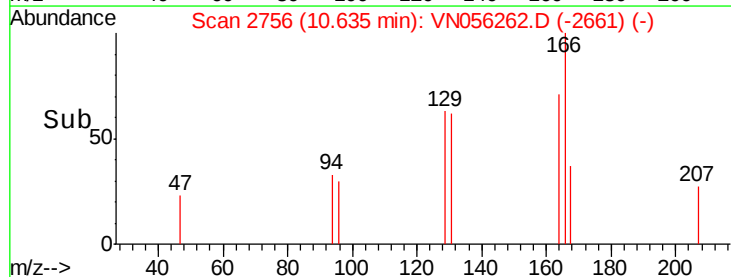
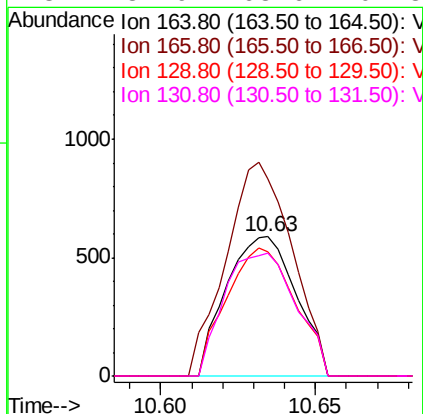
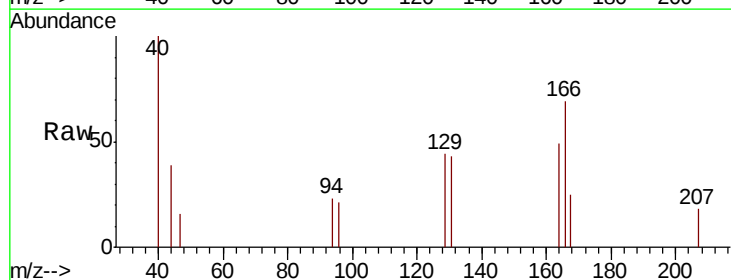
Instrument :
MSVOA_N
ClientSampleId :
TT101D1-20190610

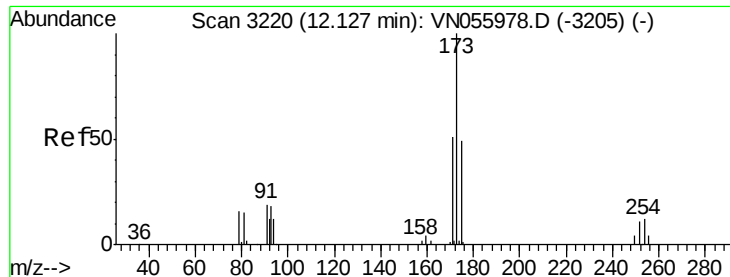
Tot Ion:117 Resp: 439564
Ion Ratio Lower Upper
117 100
82 51.0 41.8 62.8
119 31.3 25.4 38.0



#64
Tetrachloroethene
Concen: 0.243 ug/l
RT: 10.63 min Scan# 2756
Delta R.T. 0.01 min
Lab File: VN056262.D
Acq: 12 Jun 2019 20:36

Tgt Ion:164 Resp: 924
Ion Ratio Lower Upper
164 100
166 141.6 103.0 154.6
129 89.5 70.6 105.8
131 87.9 68.6 102.8





#71

Bromoform

Concen: 3.221 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN056262.D

Acq: 12 Jun 2019 20:36

Instrument :

MSVOA_N

ClientSampleId :

TT101D1-20190610

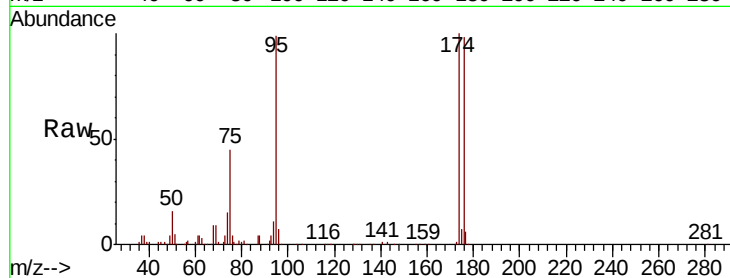
Tot Ion:173 Resp: 1284

Ion Ratio Lower Upper

173 100

175 872.3 24.3 72.8#

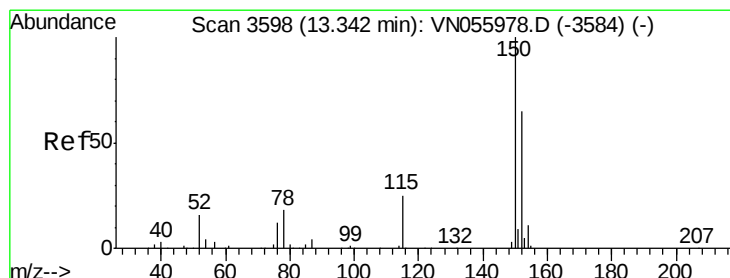
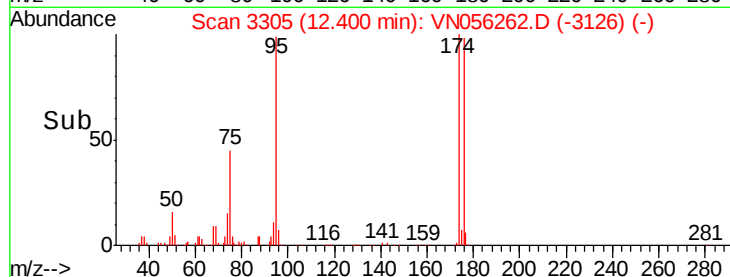
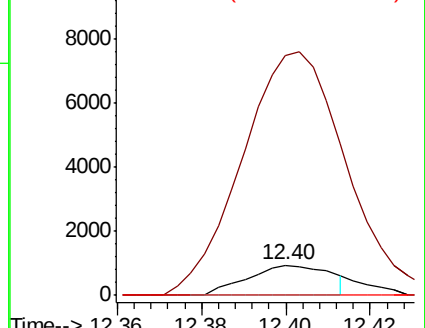
254 0.0 0.0 0.0



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: VN056262.D

Acq: 12 Jun 2019 20:36

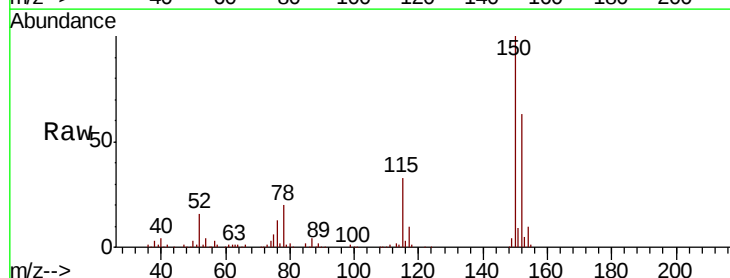
Tgt Ion:152 Resp: 139875

Ion Ratio Lower Upper

152 100

115 52.8 27.0 81.0

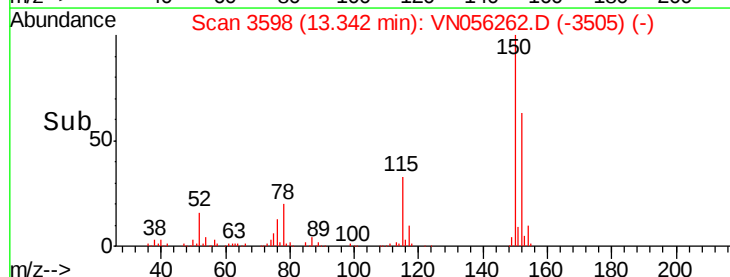
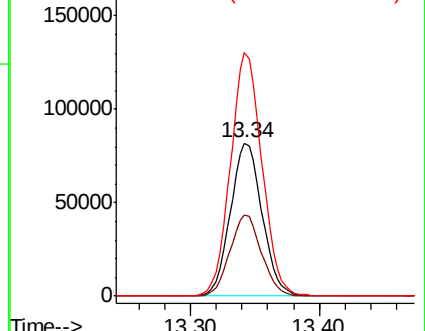
150 157.6 0.0 343.2

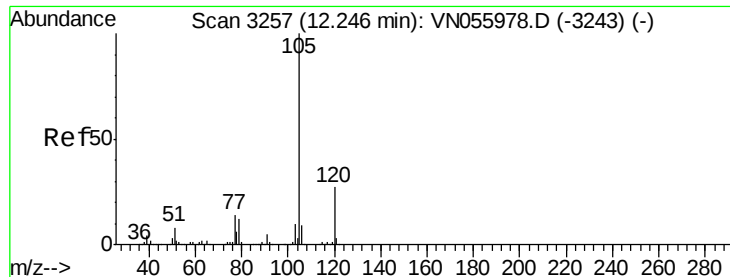


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. 0.16 min

Lab File: VN056262.D

Acq: 12 Jun 2019 20:36

Instrument :

MSVOA_N

ClientSampleId :

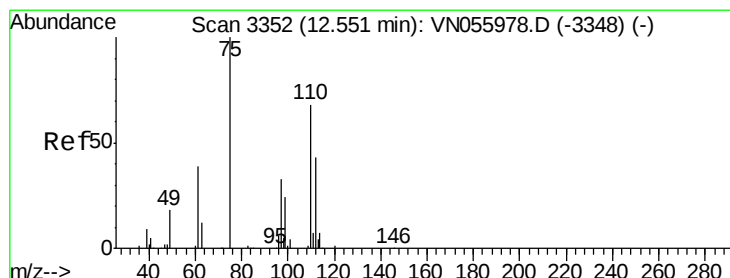
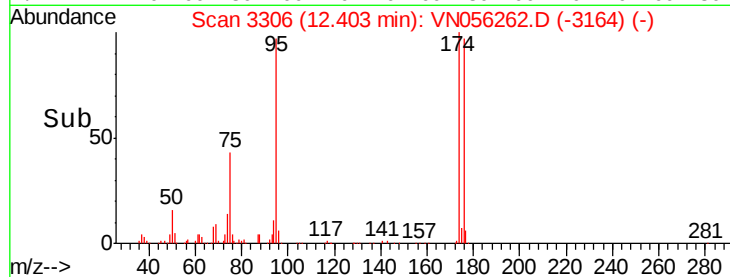
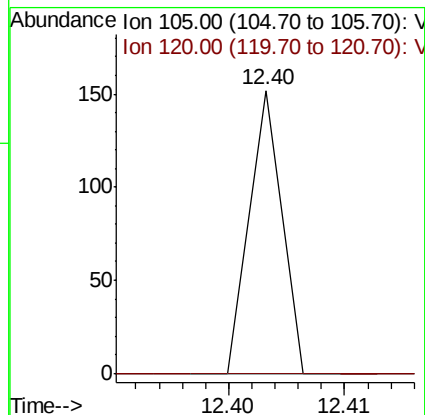
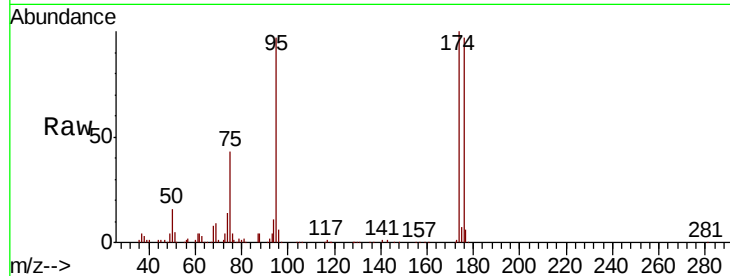
TT101D1-20190610

Tot Ion:105 Resp: 29

Ion Ratio Lower Upper

105 100

120 0.0 13.6 40.7#



#76

1,2,3-Trichloropropane

Concen: 31.144 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056262.D

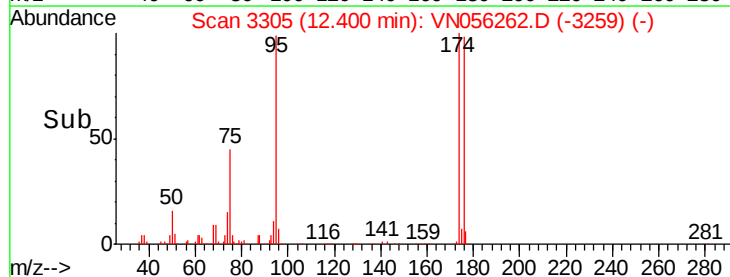
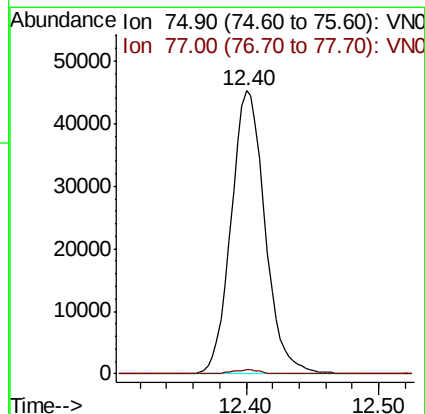
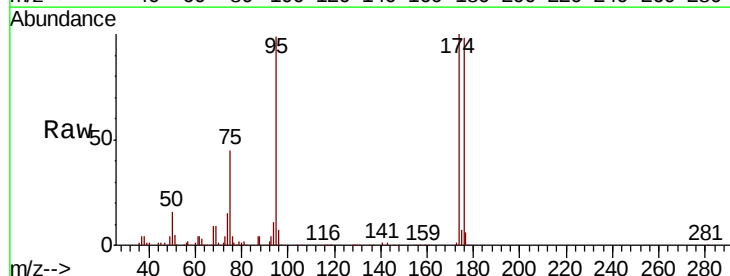
Acq: 12 Jun 2019 20:36

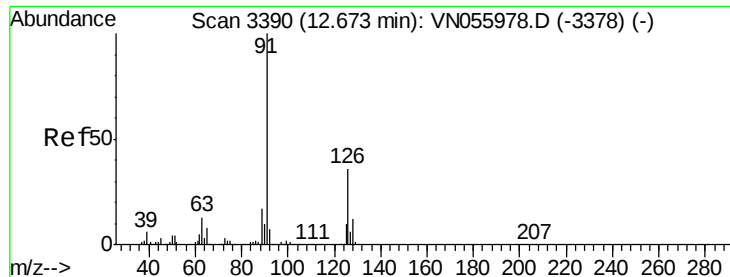
Tgt Ion: 75 Resp: 80156

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. -0.27 min

Lab File: VN056262.D

Acq: 12 Jun 2019 20:36

Instrument :

MSVOA_N

ClientSampleId :

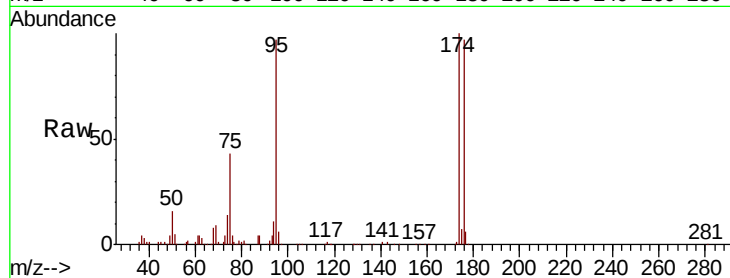
TT101D1-20190610

Tot Ion: 91 Resp: 532

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

12.40

400

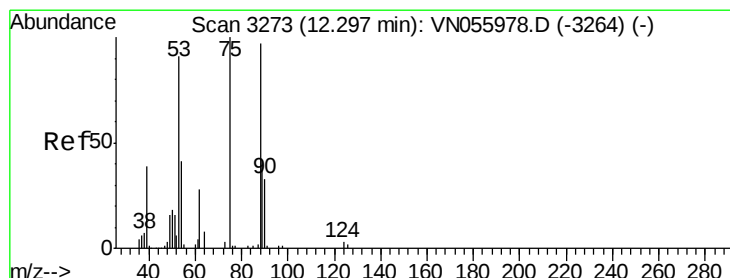
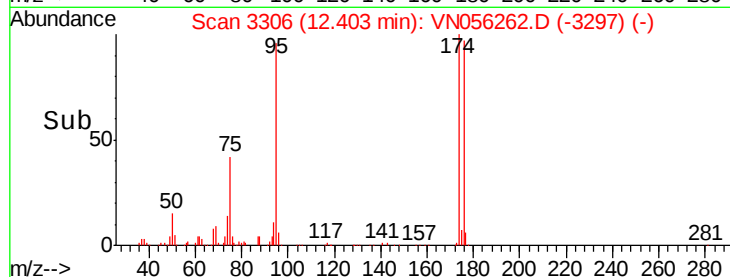
300

200

100

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 103.714 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056262.D

Acq: 12 Jun 2019 20:36

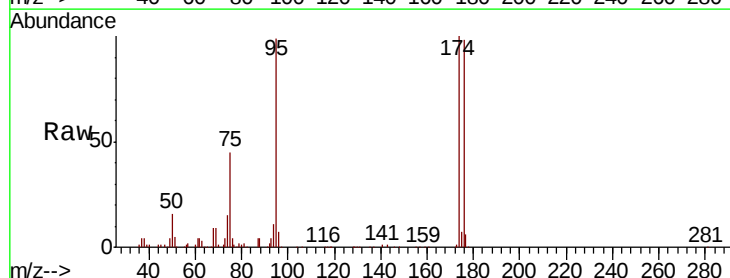
Tgt Ion: 75 Resp: 80156

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

60000

50000

40000

30000

20000

10000

0

Time-->

