

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061019\
 Data File : VN056201.D
 Acq On : 11 Jun 2019 5:36
 Operator : JC/SP
 Sample : K3255-18
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 11 09:02:49 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	298146	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	449415	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	440357	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	143189	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	156623	52.91	ug/l	0.00
Spiked Amount 50.000			Recovery =	105.82%		
35) Dibromofluoromethane	7.59	113	142790	51.79	ug/l	0.00
Spiked Amount 50.000			Recovery =	103.58%		
50) Toluene-d8	10.09	98	574790	54.17	ug/l	0.00
Spiked Amount 50.000			Recovery =	108.34%		
62) 4-Bromofluorobenzene	12.40	95	185441	51.39	ug/l	0.00
Spiked Amount 50.000			Recovery =	102.78%		

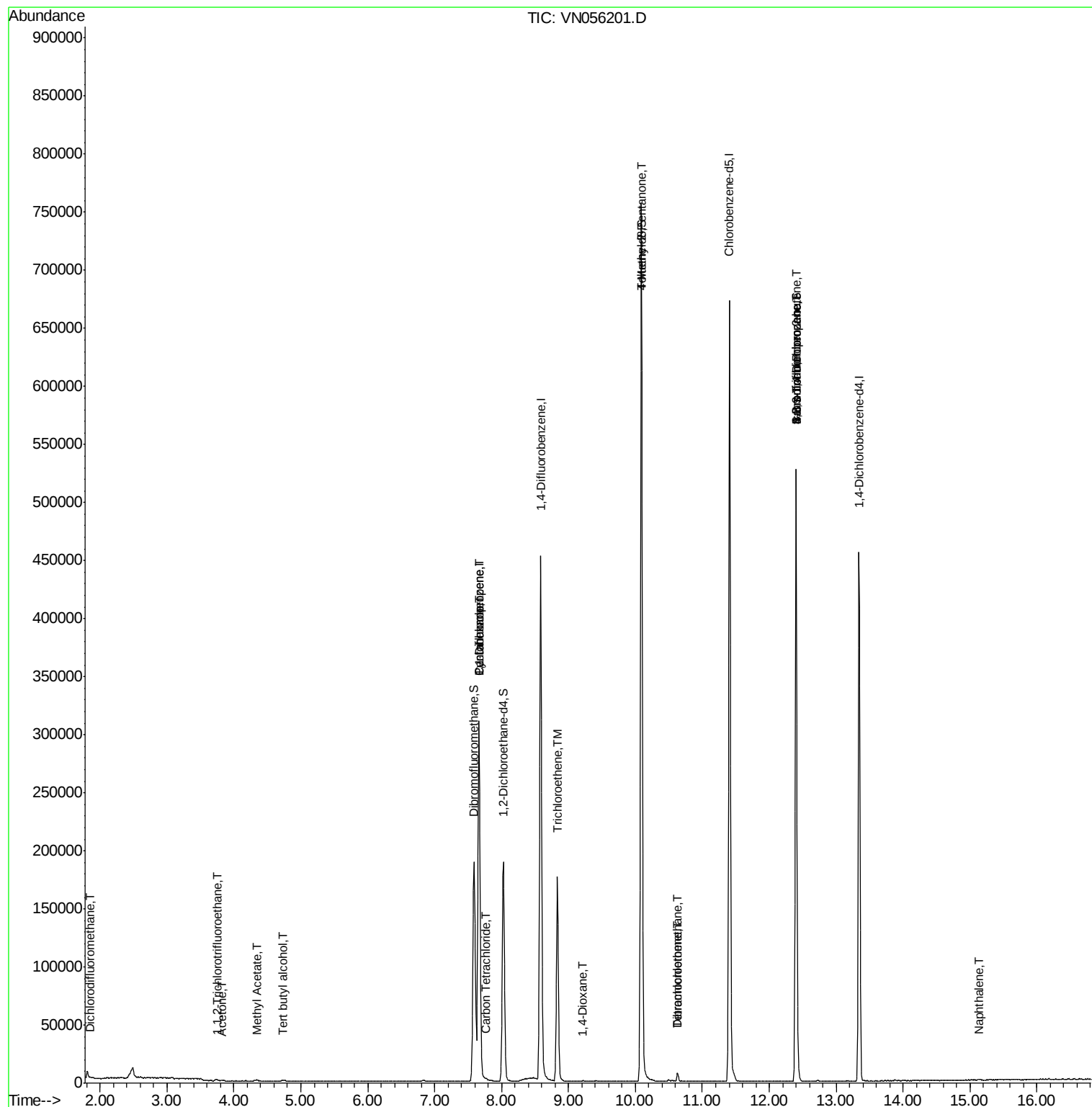
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	29	0.363	ug/l #	42
9) 1,1,2-Trichlorotrifluoroet	3.74	101	1068	0.425	ug/l #	73
11) Tert butyl alcohol	4.74	59	188	0.365	ug/l #	74
16) Acetone	3.82	43	969	0.684	ug/l #	41
18) Methyl Acetate	4.33	43	2186	0.210	ug/l #	63
31) Cyclohexane	7.66	56	4068	0.866	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	16608	4.298	ug/l #	48
38) Carbon Tetrachloride	7.77	117	931	0.261	ug/l #	61
44) Trichloroethene	8.83	130	72169	21.399	ug/l	97
49) 1,4-Dioxane	9.21	88	236	4.010	ug/l #	90
51) 4-Methyl-2-Pentanone	10.09	43	2168	0.622	ug/l #	1
60) Dibromochloromethane	10.63	129	1798	2.988	ug/l #	11
64) Tetrachloroethene	10.63	164	2017	0.529	ug/l	90
71) Bromoform	12.40	173	1409	3.266	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	85041	32.277	ug/l #	100
79) 2-Chlorotoluene	12.40	91	602	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	85041	107.488	ug/l #	15
95) Naphthalene	15.13	128	1383	4.038	ug/l #	69

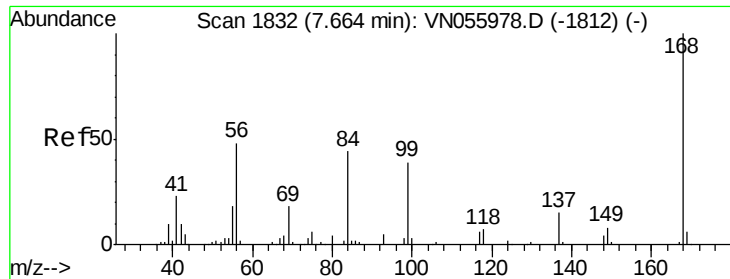
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN056201.D

Acq: 11 Jun 2019 5:36

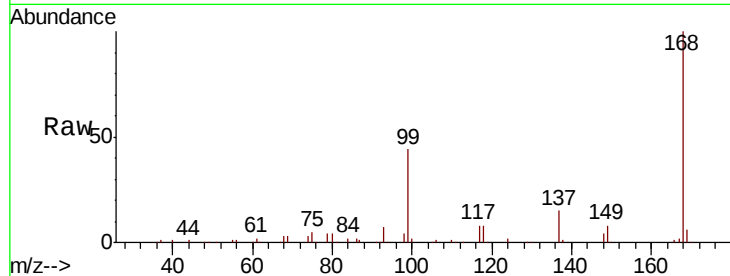
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 298146

Ion Ratio Lower Upper

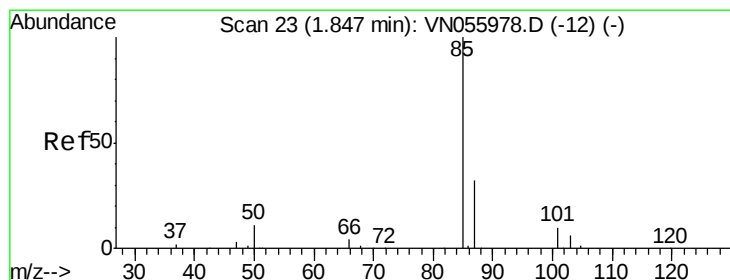
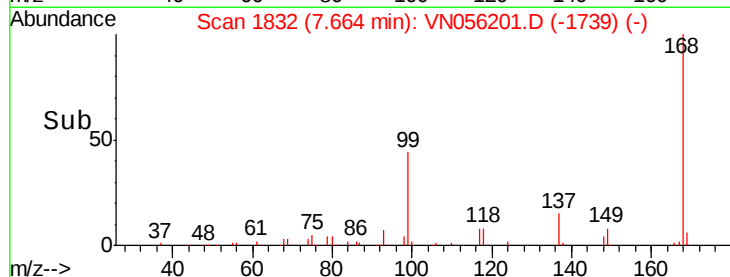
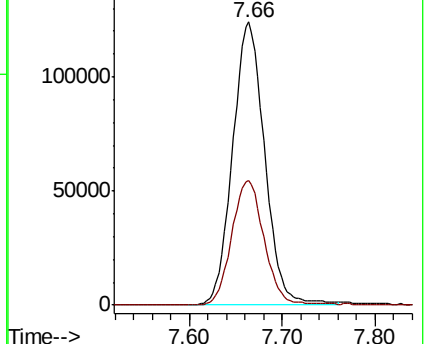
168 100

99 43.9 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#2

Dichlorodifluoromethane

Concen: 0.363 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN056201.D

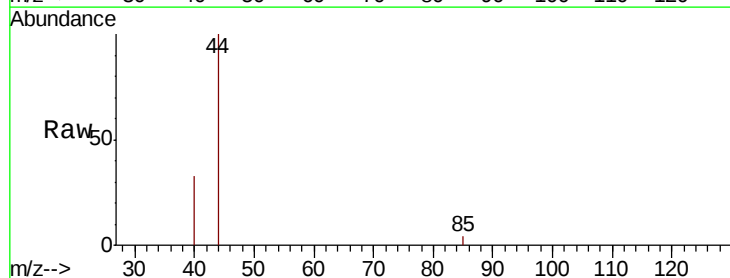
Acq: 11 Jun 2019 5:36

Tgt Ion: 85 Resp: 29

Ion Ratio Lower Upper

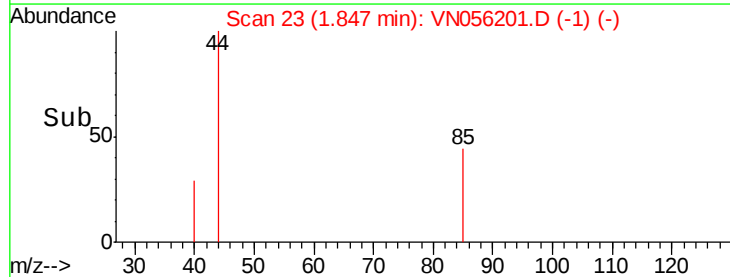
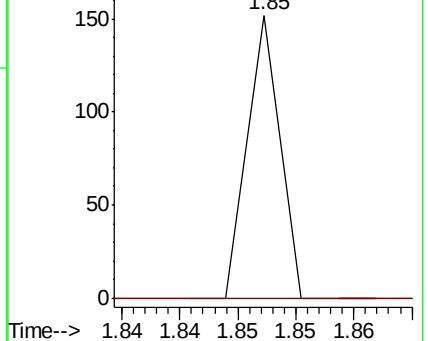
85 100

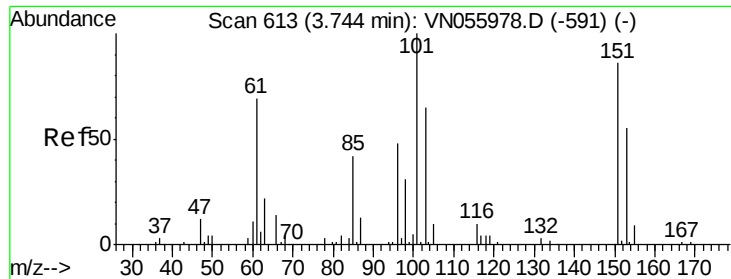
87 0.0 16.1 48.3#



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.425 ug/l

RT: 3.74 min Scan# 613

Delta R.T. -0.00 min

Lab File: VN056201.D

Acq: 11 Jun 2019 5:36

Instrument :

MSVOA_N

ClientSampled :

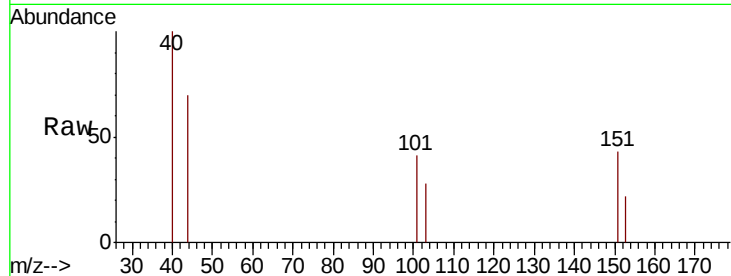
Tot Ion:101 Resp: 1068

Ion Ratio Lower Upper

101 100

85 0.0 33.4 50.2#

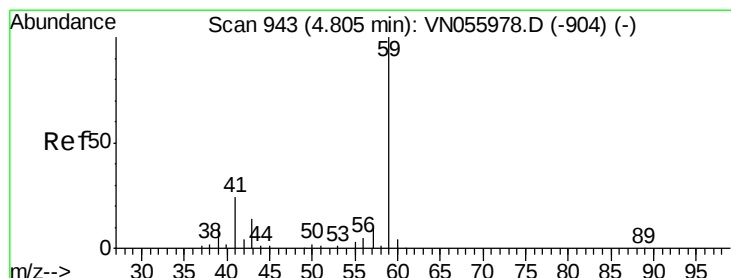
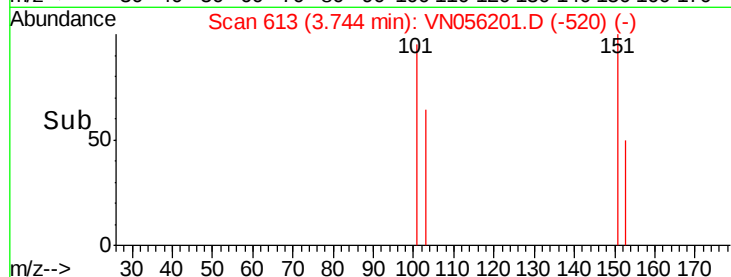
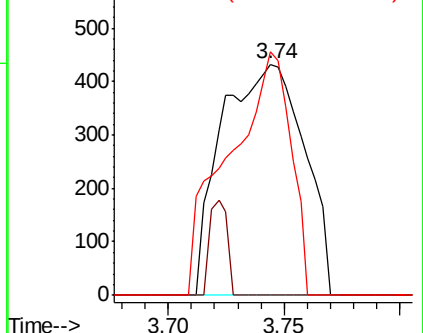
151 79.5 69.4 104.2



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: 0.365 ug/l

RT: 4.74 min Scan# 924

Delta R.T. -0.06 min

Lab File: VN056201.D

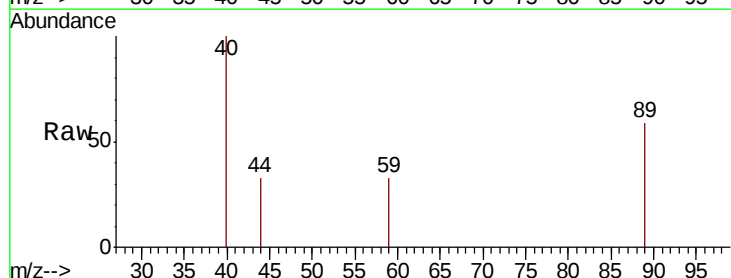
Acq: 11 Jun 2019 5:36

Tgt Ion: 59 Resp: 188

Ion Ratio Lower Upper

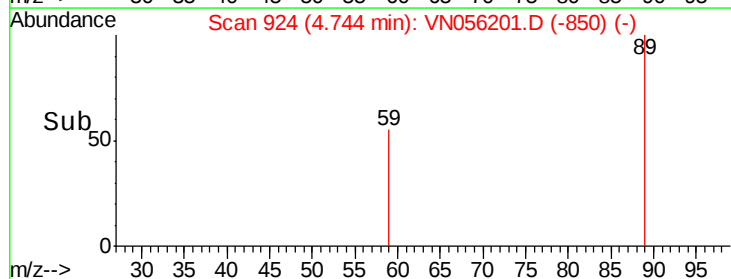
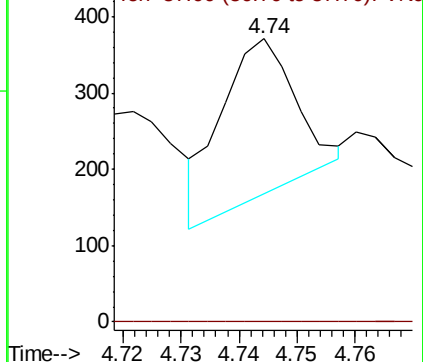
59 100

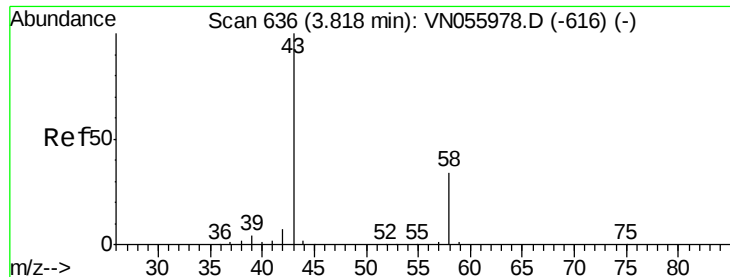
57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

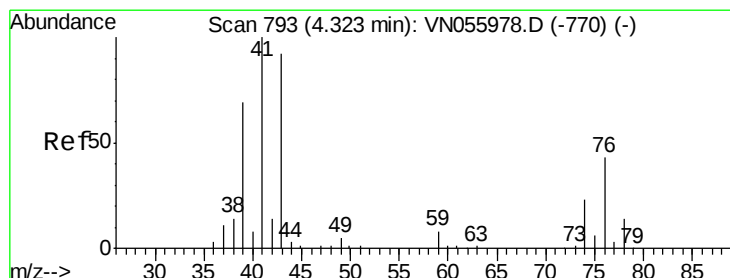
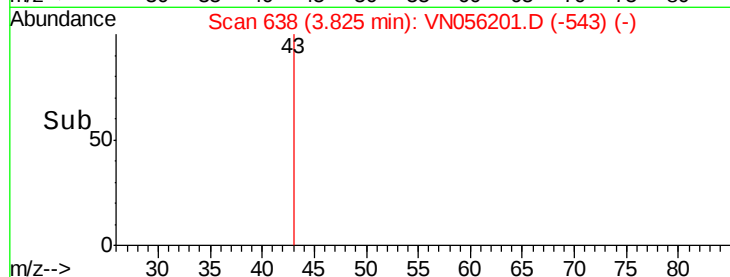
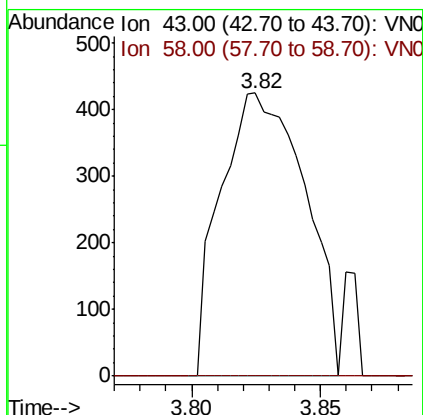
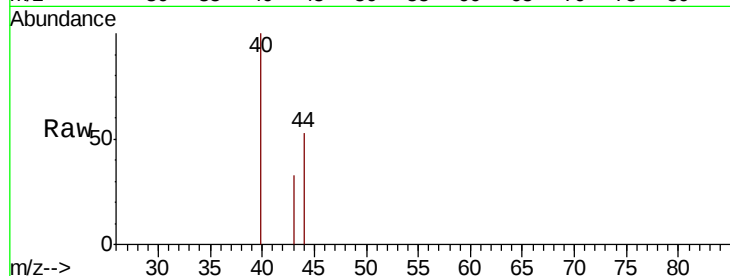




#16
Acetone
Concen: 0.684 ug/l
RT: 3.82 min Scan# 638
Delta R.T. 0.01 min
Lab File: VN056201.D
Acq: 11 Jun 2019 5:36

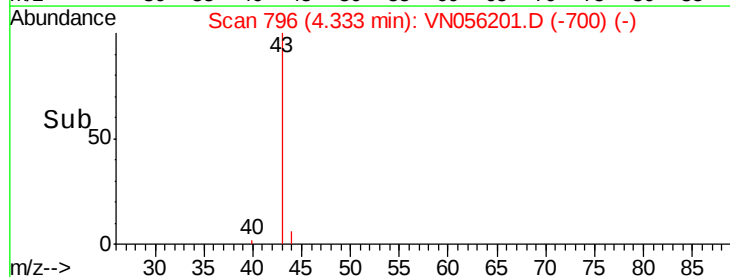
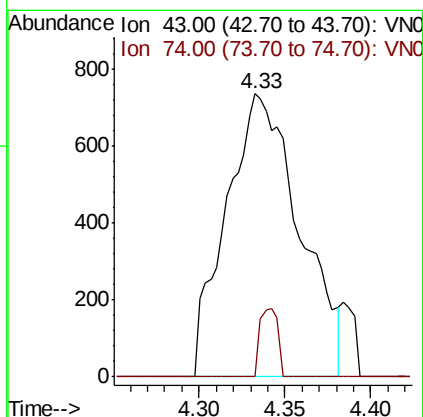
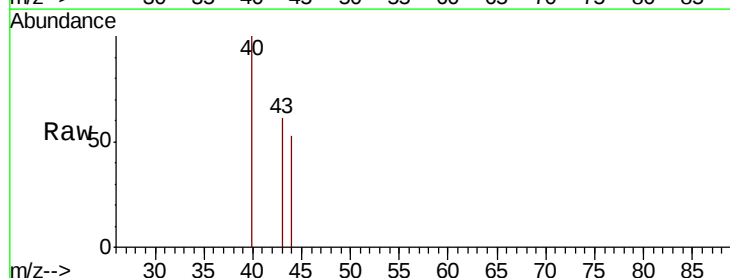
Instrument :
MSVOA_N
ClientSampled :

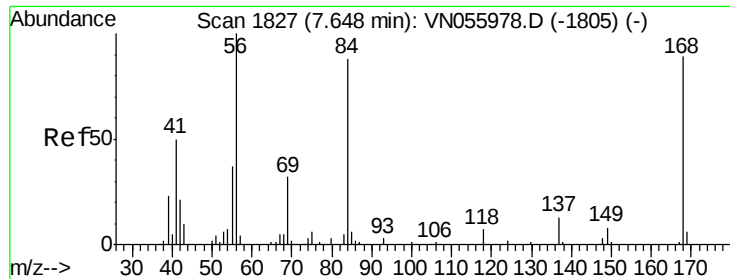
Tot Ion: 43 Resp: 969
Ion Ratio Lower Upper
43 100
58 0.0 26.6 39.8#



#18
Methyl Acetate
Concen: 0.210 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN056201.D
Acq: 11 Jun 2019 5:36

Tgt Ion: 43 Resp: 2186
Ion Ratio Lower Upper
43 100
74 5.8 19.3 28.9#

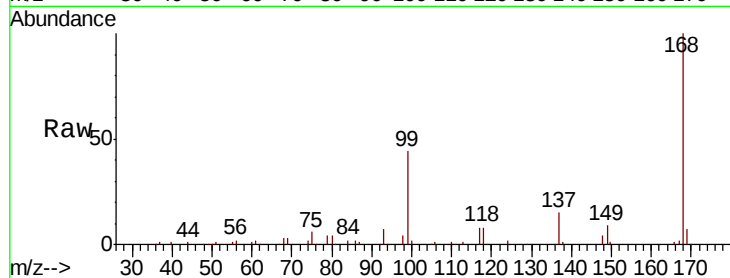




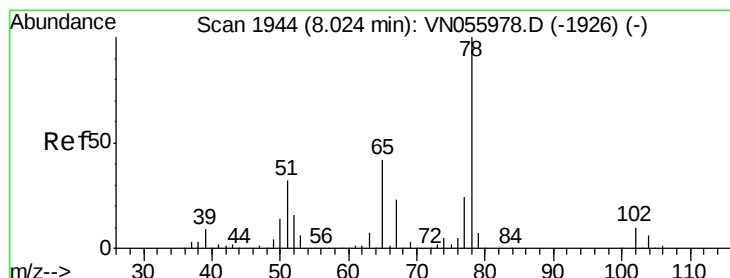
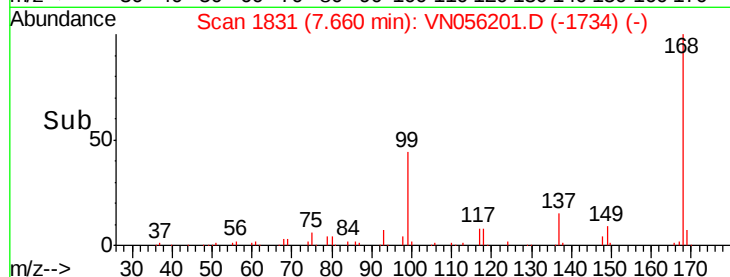
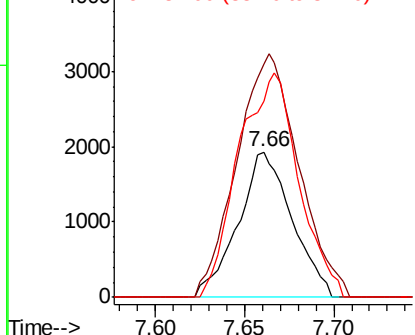
#31
Cyclohexane
Concen: 0.866 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN056201.D
Acq: 11 Jun 2019 5:36

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 4068
Ion Ratio Lower Upper
56 100
69 160.5 25.6 38.4#
84 135.1 67.4 101.0#

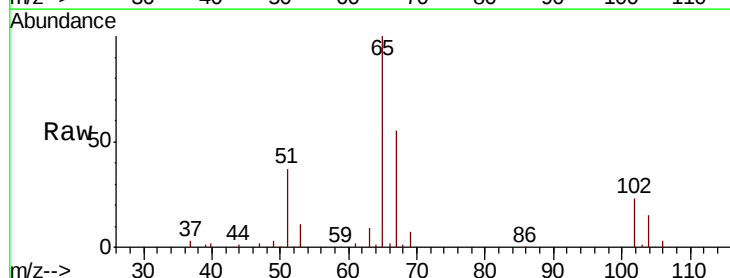


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

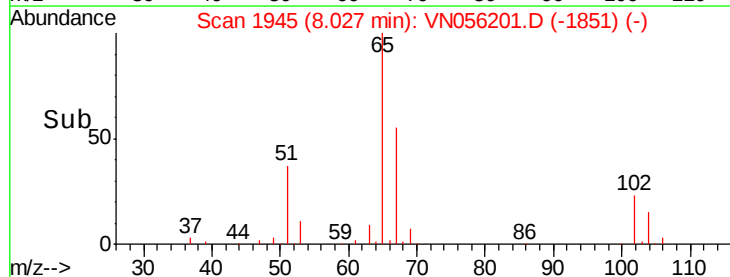
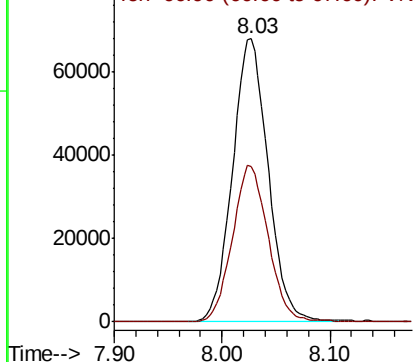


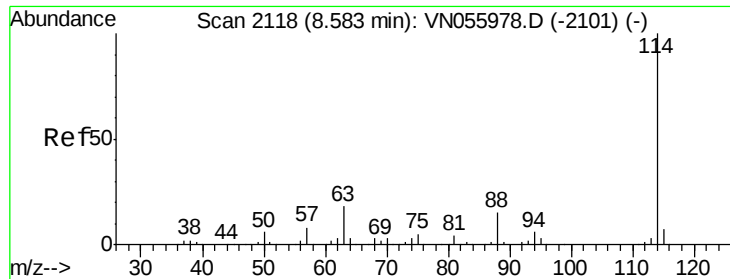
#33
1,2-Dichloroethane-d4
Concen: 52.907 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN056201.D
Acq: 11 Jun 2019 5:36

Tgt Ion: 65 Resp: 156623
Ion Ratio Lower Upper
65 100
67 55.5 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

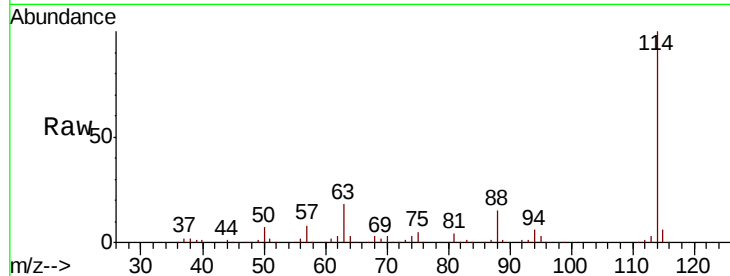




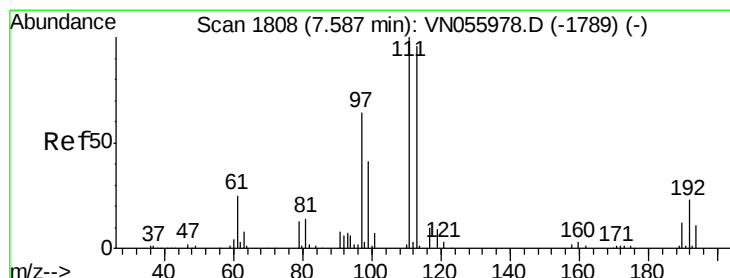
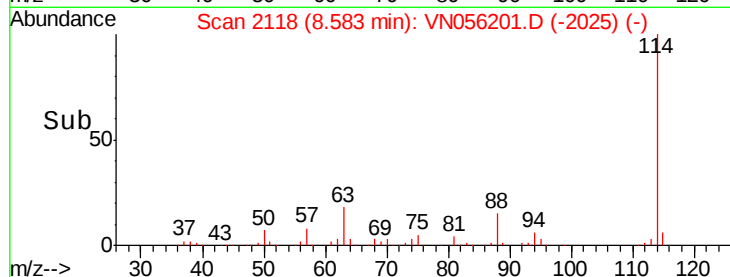
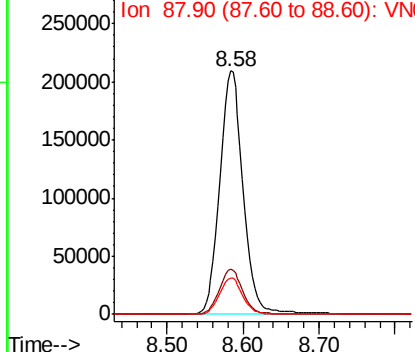
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.58 min Scan# 2118
Delta R.T. -0.00 min
Lab File: VN056201.D
Acq: 11 Jun 2019 5:36

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:114 Resp: 449415
Ion Ratio Lower Upper
114 100
63 18.5 0.0 39.2
88 14.9 0.0 31.0

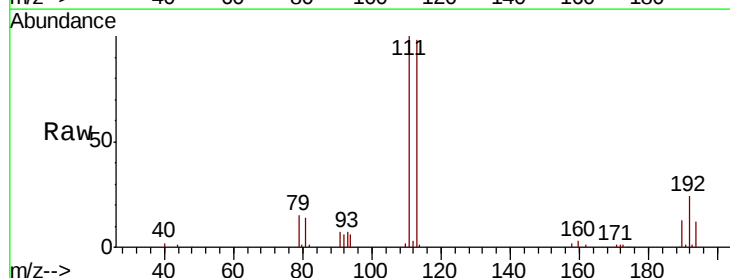


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

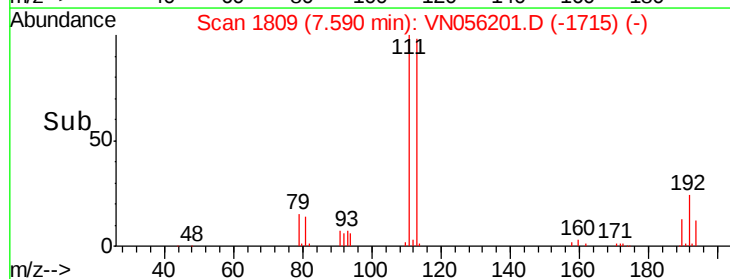
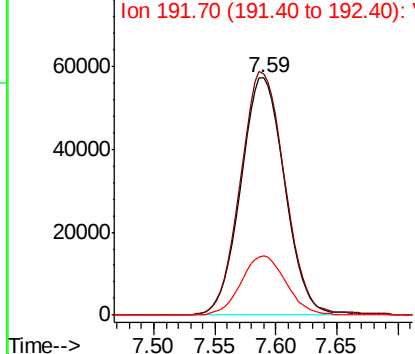


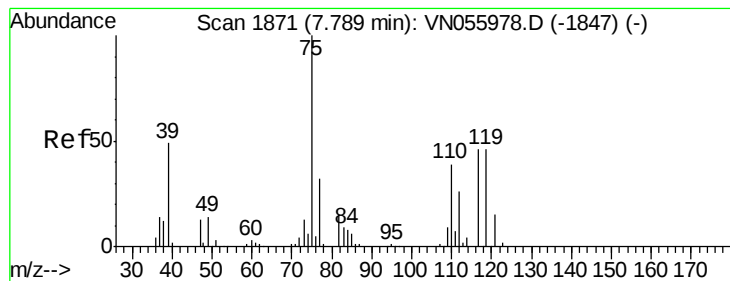
#35
Dibromofluoromethane
Concen: 51.786 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN056201.D
Acq: 11 Jun 2019 5:36

Tgt Ion:113 Resp: 142790
Ion Ratio Lower Upper
113 100
111 103.6 81.9 122.9
192 25.4 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: 4.298 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN056201.D

Acq: 11 Jun 2019 5:36

Instrument :

MSVOA_N

ClientSampled :

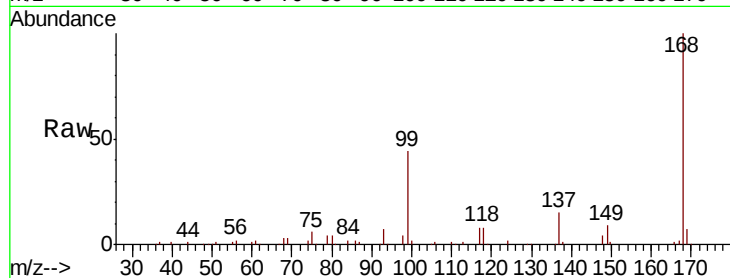
Tot Ion: 75 Resp: 16608

Ion Ratio Lower Upper

75 100

110 8.7 19.0 57.0#

77 0.0 25.1 37.7#



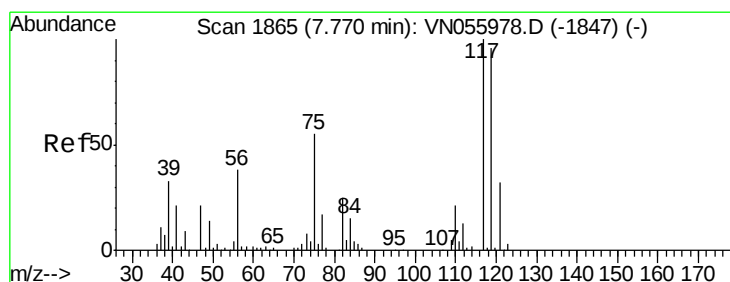
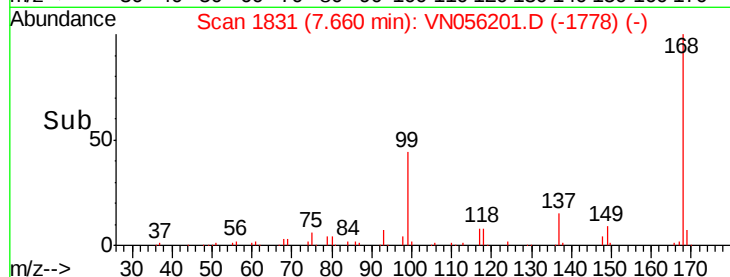
Abundance Ion 74.90 (74.60 to 75.60): VN055978.D (-1847) (-)

Ion 109.90 (109.60 to 110.60): VN055978.D (-1847) (-)

Ion 76.90 (76.60 to 77.60): VN055978.D (-1847) (-)

7.66

Time-->



#38

Carbon Tetrachloride

Concen: 0.261 ug/l

RT: 7.77 min Scan# 1864

Delta R.T. -0.00 min

Lab File: VN056201.D

Acq: 11 Jun 2019 5:36

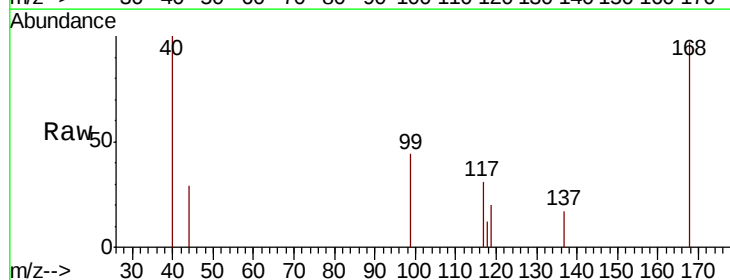
Tgt Ion: 117 Resp: 931

Ion Ratio Lower Upper

117 100

119 64.9 79.0 118.6#

121 0.0 24.7 37.1#



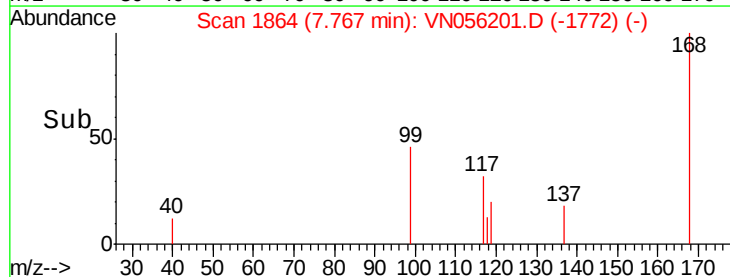
Abundance Ion 116.80 (116.50 to 117.50): VN055978.D (-1847) (-)

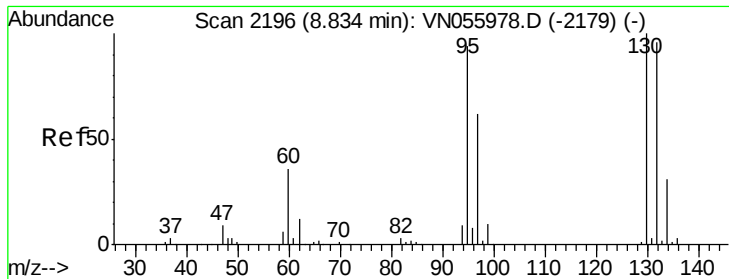
Ion 118.80 (118.50 to 119.50): VN055978.D (-1847) (-)

Ion 120.80 (120.50 to 121.50): VN055978.D (-1847) (-)

7.77

Time-->





#44

Trichloroethene

Concen: 21.399 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN056201.D

Acq: 11 Jun 2019 5:36

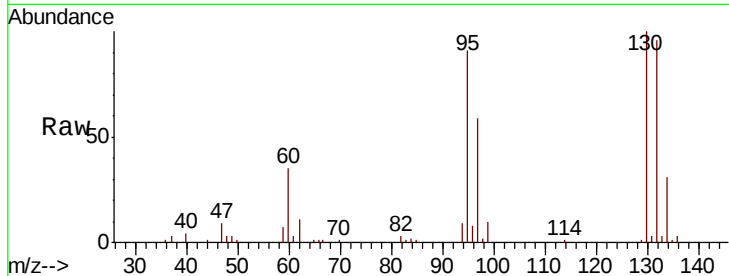
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:130 Resp: 72169

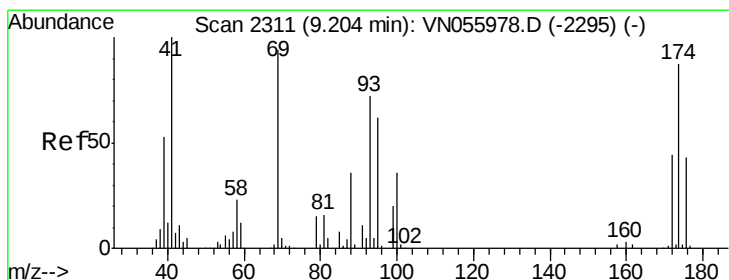
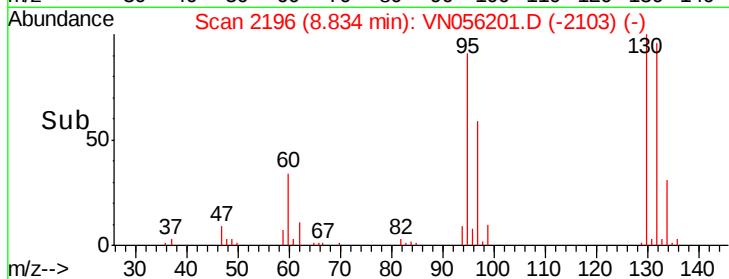
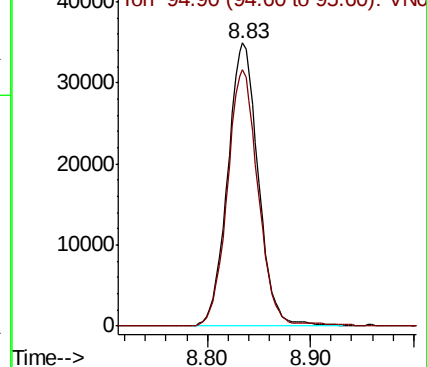
Ion Ratio Lower Upper

130 100

95 90.7 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): VN055978.D (-2179) (-)



#49

1,4-Dioxane

Concen: 4.010 ug/l

RT: 9.21 min Scan# 2314

Delta R.T. 0.01 min

Lab File: VN056201.D

Acq: 11 Jun 2019 5:36

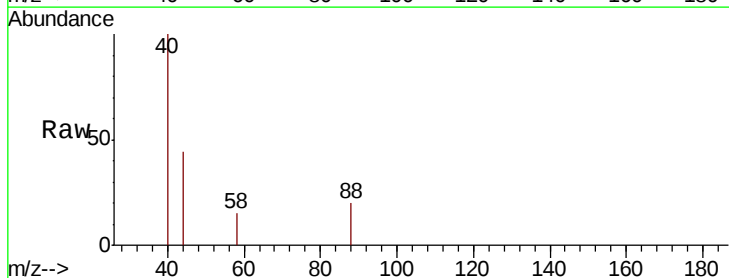
Tgt Ion: 88 Resp: 236

Ion Ratio Lower Upper

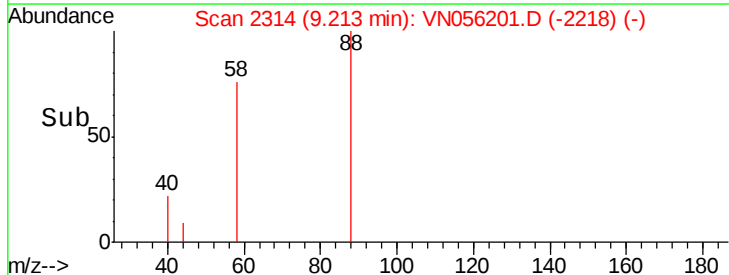
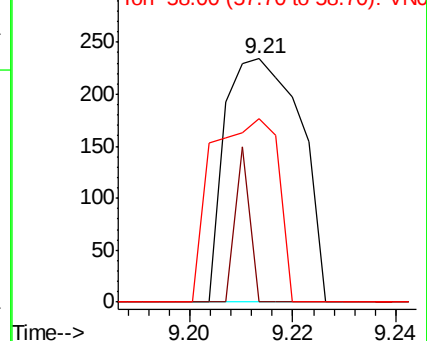
88 100

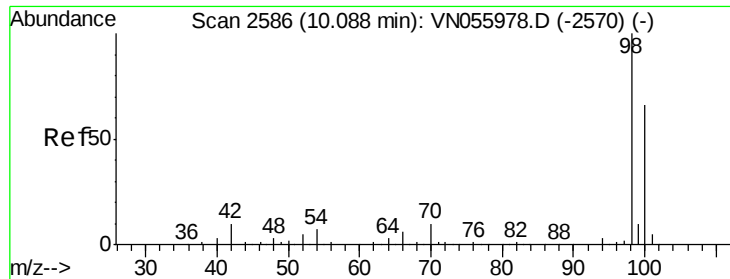
43 12.3 20.5 30.7#

58 66.5 55.8 83.6



Abundance Ion 88.00 (87.70 to 88.70): VN055978.D (-2295) (-)

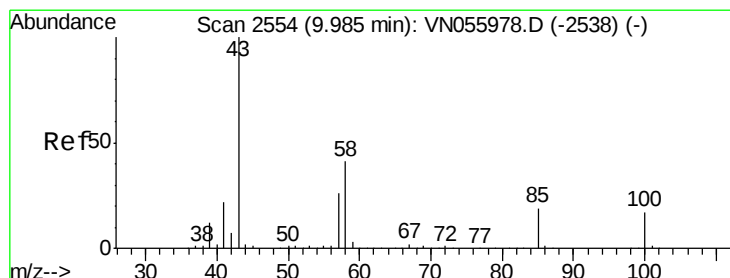
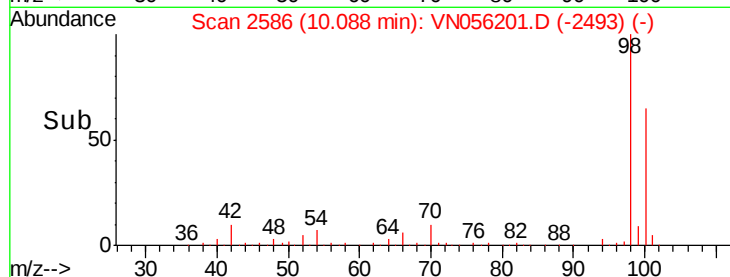
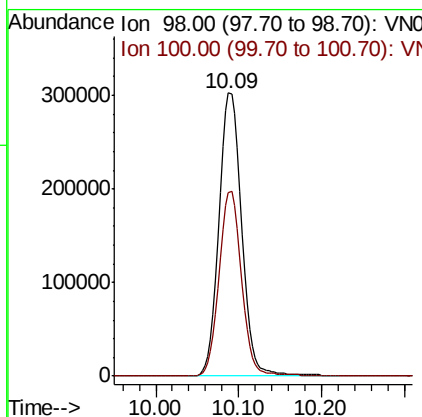
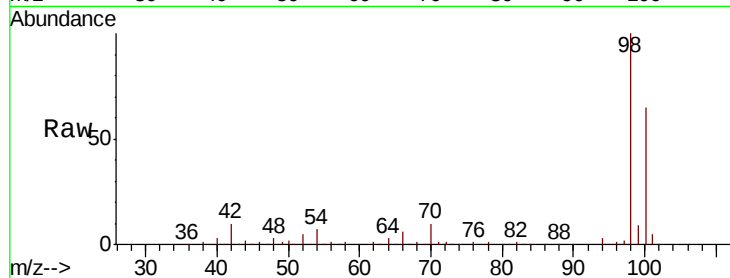




#50
Toluene-d8
Concen: 54.174 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN056201.D
Acq: 11 Jun 2019 5:36

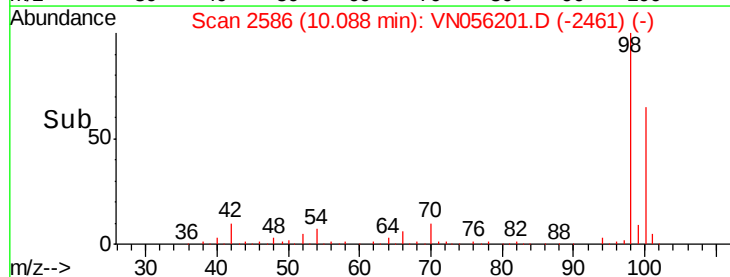
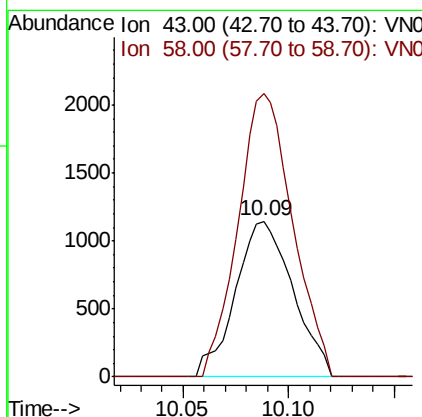
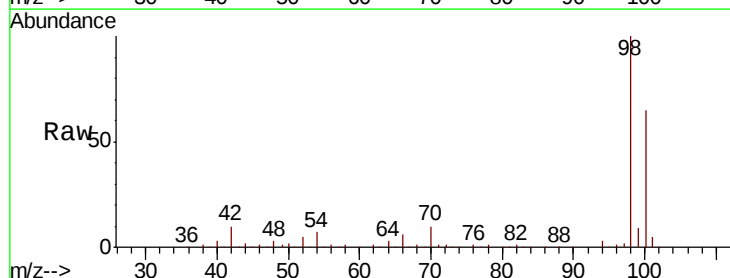
Instrument :
MSVOA_N
ClientSampleId :

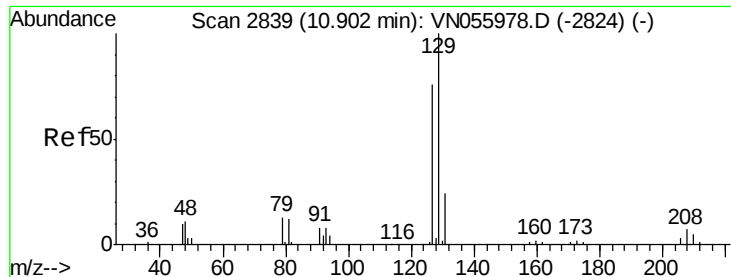
Tot Ion: 98 Resp: 574790
Ion Ratio Lower Upper
98 100
100 64.1 51.9 77.9



#51
4-Methyl-2-Pentanone
Concen: 0.622 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.10 min
Lab File: VN056201.D
Acq: 11 Jun 2019 5:36

Tgt Ion: 43 Resp: 2168
Ion Ratio Lower Upper
43 100
58 172.8 32.1 48.1#





#60

Dibromochloromethane

Concen: 2.988 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.27 min

Lab File: VN056201.D

Acq: 11 Jun 2019 5:36

Instrument :

MSVOA_N

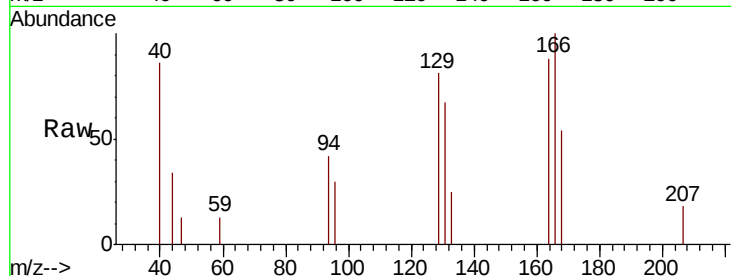
ClientSampleId :

Tot Ion:129 Resp: 1798

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

1200

1000

800

600

400

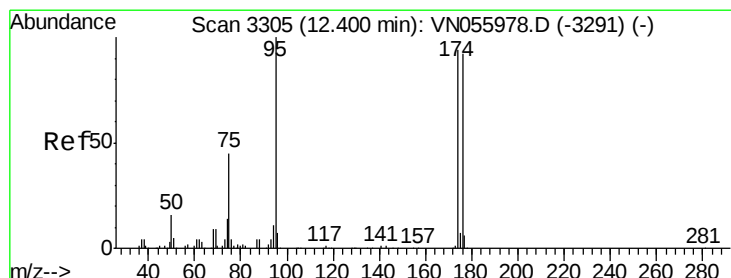
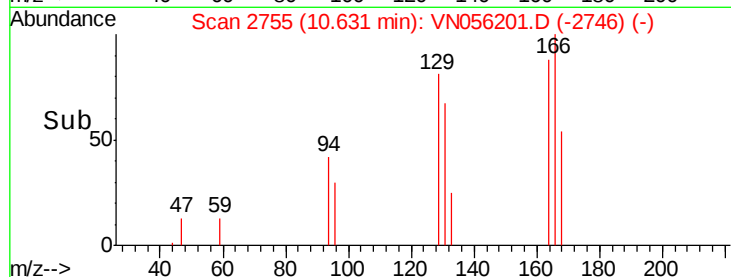
200

0

Time-->

10.60

10.65



#62

4-Bromofluorobenzene

Concen: 51.394 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056201.D

Acq: 11 Jun 2019 5:36

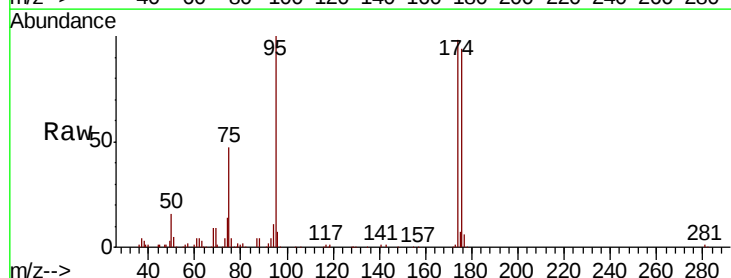
Tgt Ion: 95 Resp: 185441

Ion Ratio Lower Upper

95 100

174 98.4 0.0 191.0

176 94.3 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

12.40

100000

50000

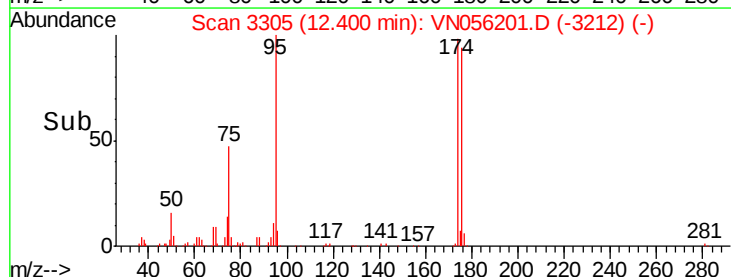
0

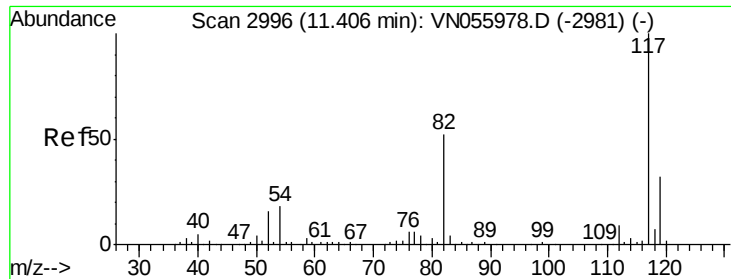
Time-->

12.30

12.40

12.50

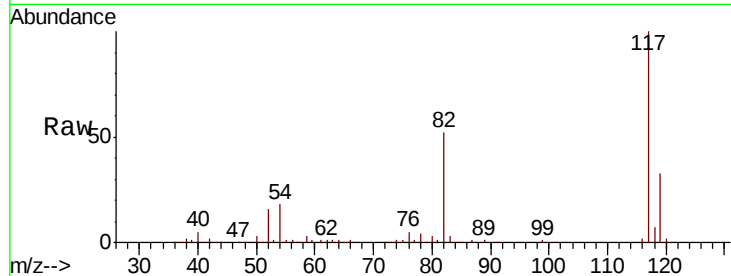




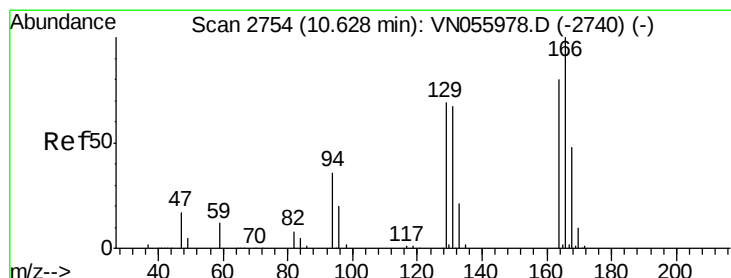
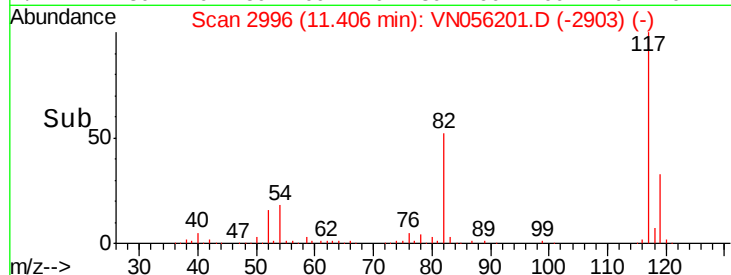
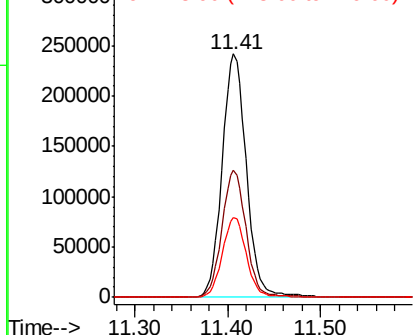
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056201.D
Acq: 11 Jun 2019 5:36

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 440357
Ion Ratio Lower Upper
117 100
82 52.0 41.8 62.8
119 32.7 25.4 38.0

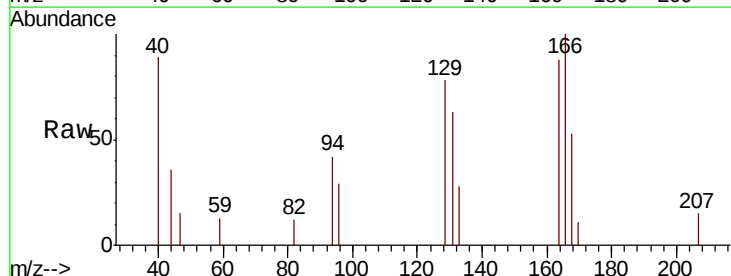


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

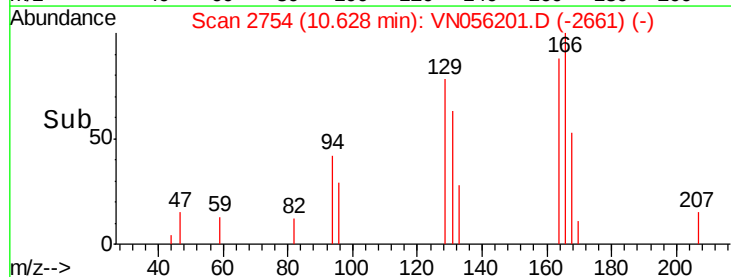
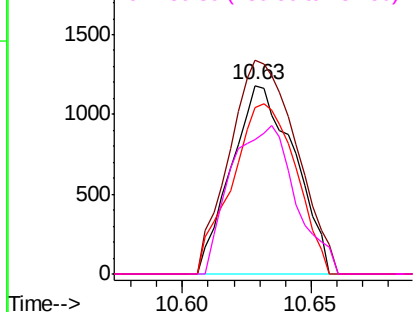


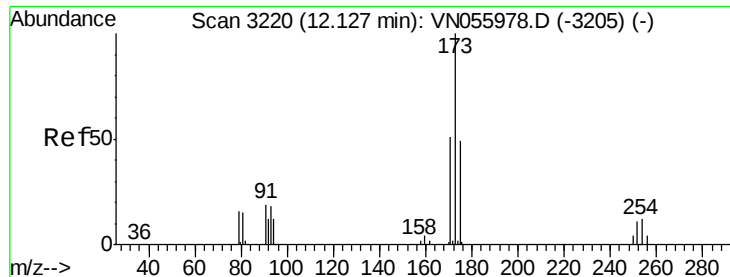
#64
Tetrachloroethene
Concen: 0.529 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN056201.D
Acq: 11 Jun 2019 5:36

Tgt Ion:164 Resp: 2017
Ion Ratio Lower Upper
164 100
166 113.3 103.0 154.6
129 88.0 70.6 105.8
131 71.2 68.6 102.8



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#71

Bromoform

Concen: 3.266 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN056201.D

Acq: 11 Jun 2019 5:36

Instrument :

MSVOA_N

ClientSampled :

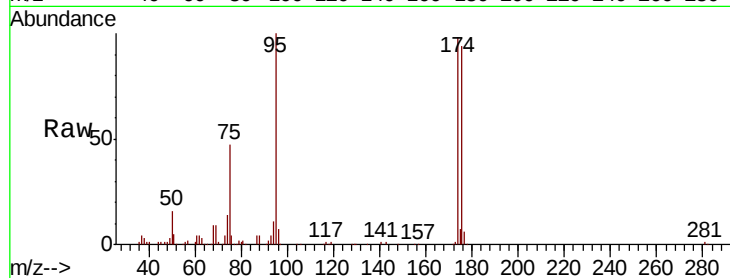
Tot Ion:173 Resp: 1409

Ion Ratio Lower Upper

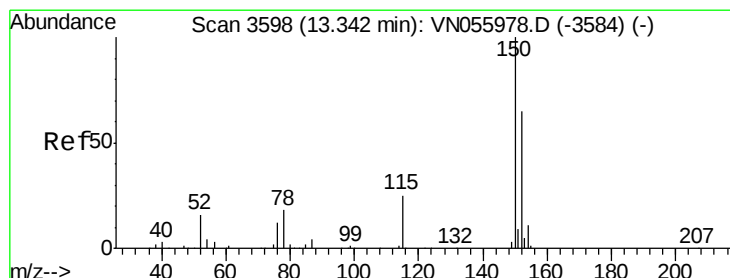
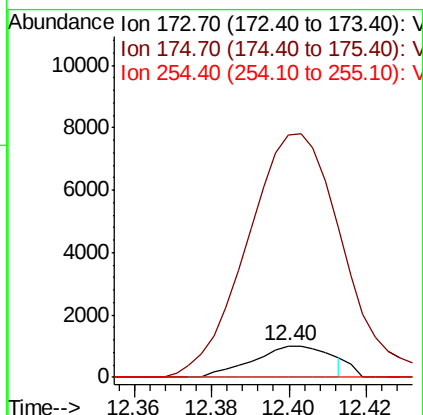
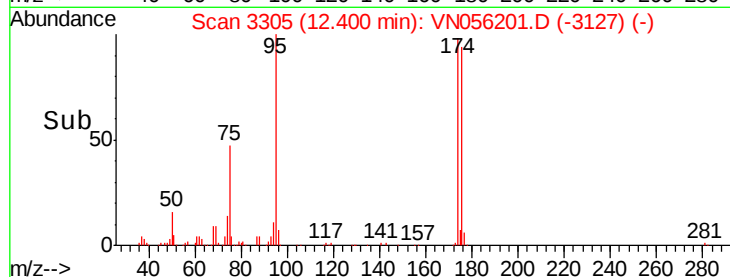
173 100

175 826.8 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: VN056201.D

Acq: 11 Jun 2019 5:36

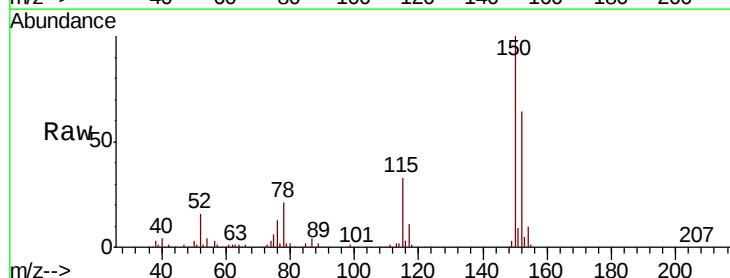
Tgt Ion:152 Resp: 143189

Ion Ratio Lower Upper

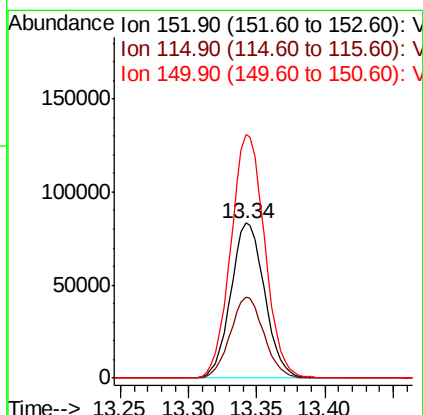
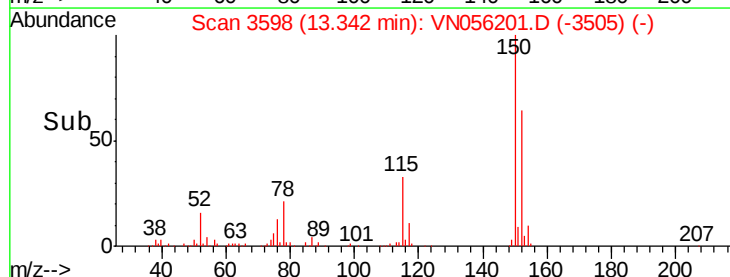
152 100

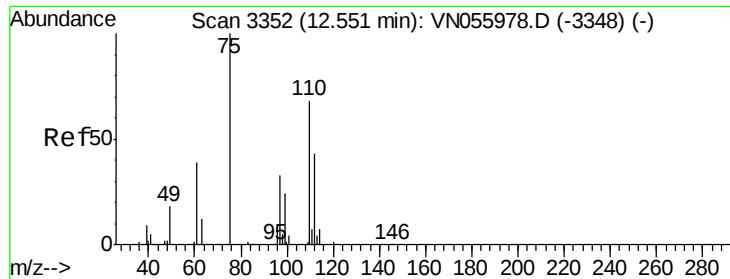
115 52.1 27.0 81.0

150 157.9 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

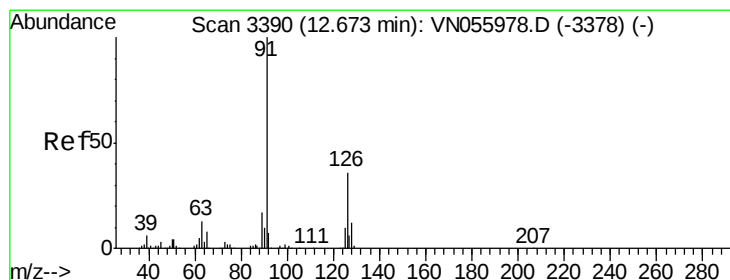
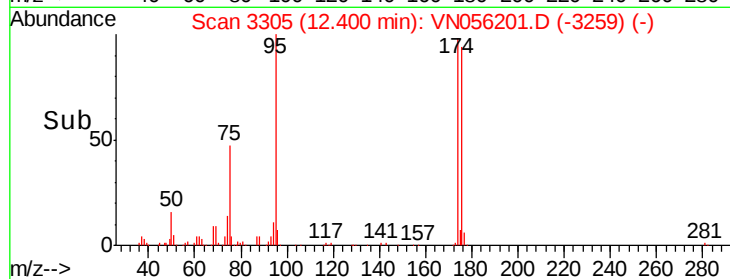
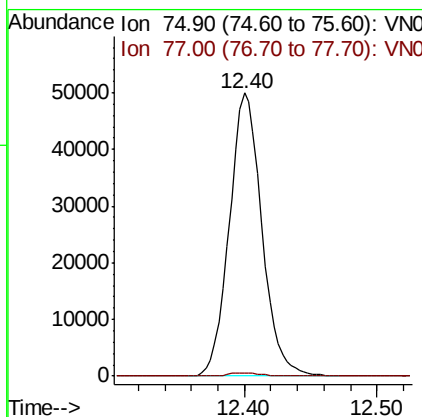
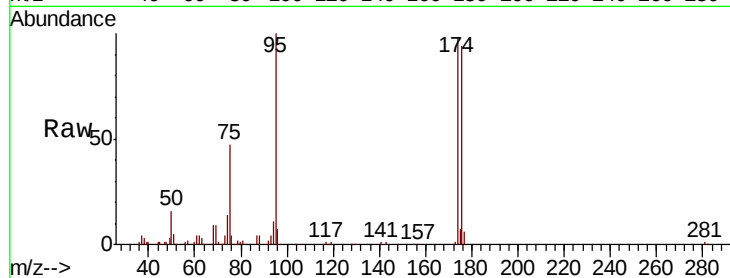




#76
 1,2,3-Trichloropropane
 Concen: 32.277 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN056201.D
 Acq: 11 Jun 2019 5:36

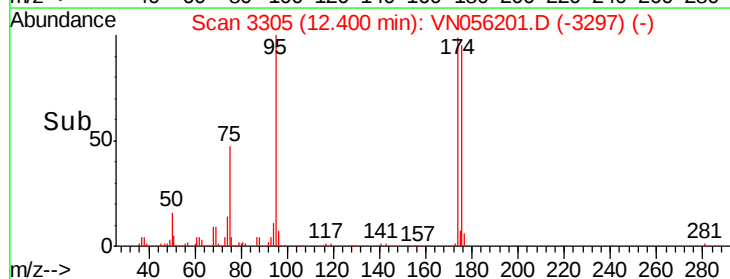
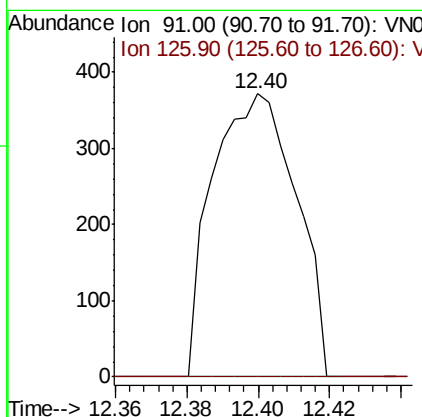
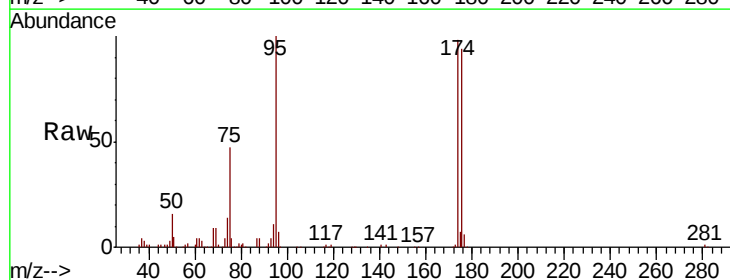
Instrument :
 MSVOA_N
 ClientSampled :

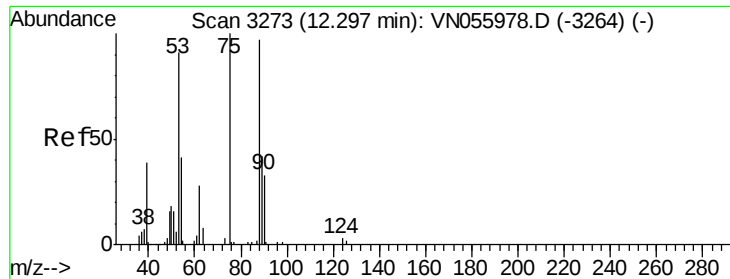
Tot Ion: 75 Resp: 85041
 Ion Ratio Lower Upper
 75 100
 77 0.5 0.0 0.0#



#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.27 min
 Lab File: VN056201.D
 Acq: 11 Jun 2019 5:36

Tgt Ion: 91 Resp: 602
 Ion Ratio Lower Upper
 91 100
 126 0.0 18.1 54.4#





#81

trans-1,4-Dichloro-2-butene

Concen: 107.488 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056201.D

Acq: 11 Jun 2019 5:36

Instrument :

MSVOA_N

ClientSampled :

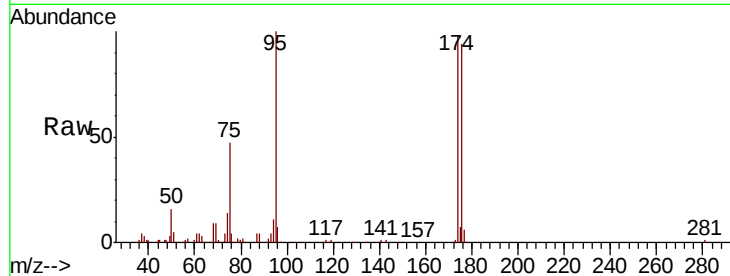
Tot Ion: 75 Resp: 85041

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

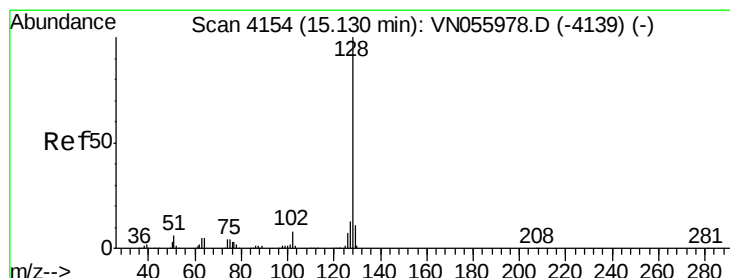
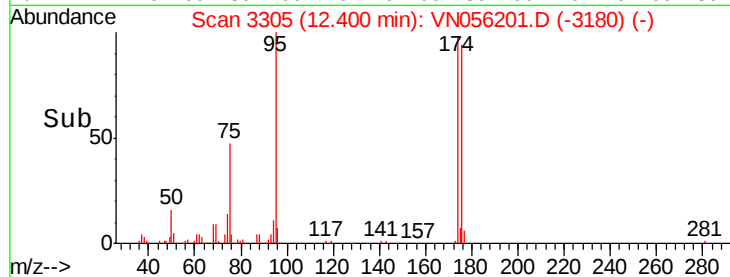
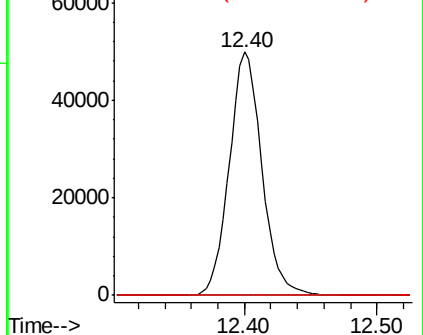
89 0.0 36.9 55.3#



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

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

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



#95

Naphthalene

Concen: 4.038 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056201.D

Acq: 11 Jun 2019 5:36

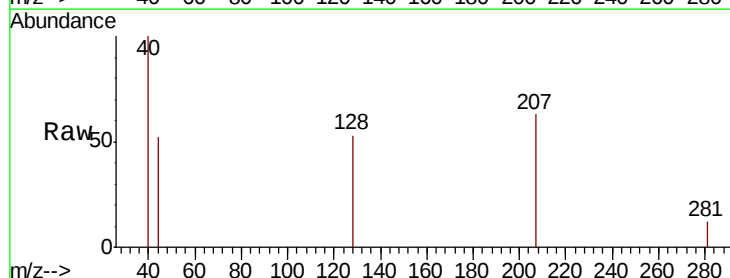
Tgt Ion: 128 Resp: 1383

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): VN055978.D (-4139) (-)

Ion 127.00 (126.70 to 127.70): VN055978.D (-4139) (-)

Ion 129.00 (128.70 to 129.70): VN055978.D (-4139) (-)

