

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071619\
 Data File : VN056771.D
 Acq On : 16 Jul 2019 16:09
 Operator : JC/SP
 Sample : K3847-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4

Quant Time: Jul 17 01:10:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 07:03:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	253150	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	452334	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	471212	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	164649	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	151120	53.97	ug/l	0.00
Spiked Amount						
				Recovery	=	107.94%
35) Dibromofluoromethane	7.59	113	135809	48.25	ug/l	0.00
Spiked Amount						
				Recovery	=	96.50%
50) Toluene-d8	10.09	98	565644	52.03	ug/l	0.00
Spiked Amount						
				Recovery	=	104.06%
62) 4-Bromofluorobenzene	12.40	95	202830	55.32	ug/l	0.00
Spiked Amount						
				Recovery	=	110.64%

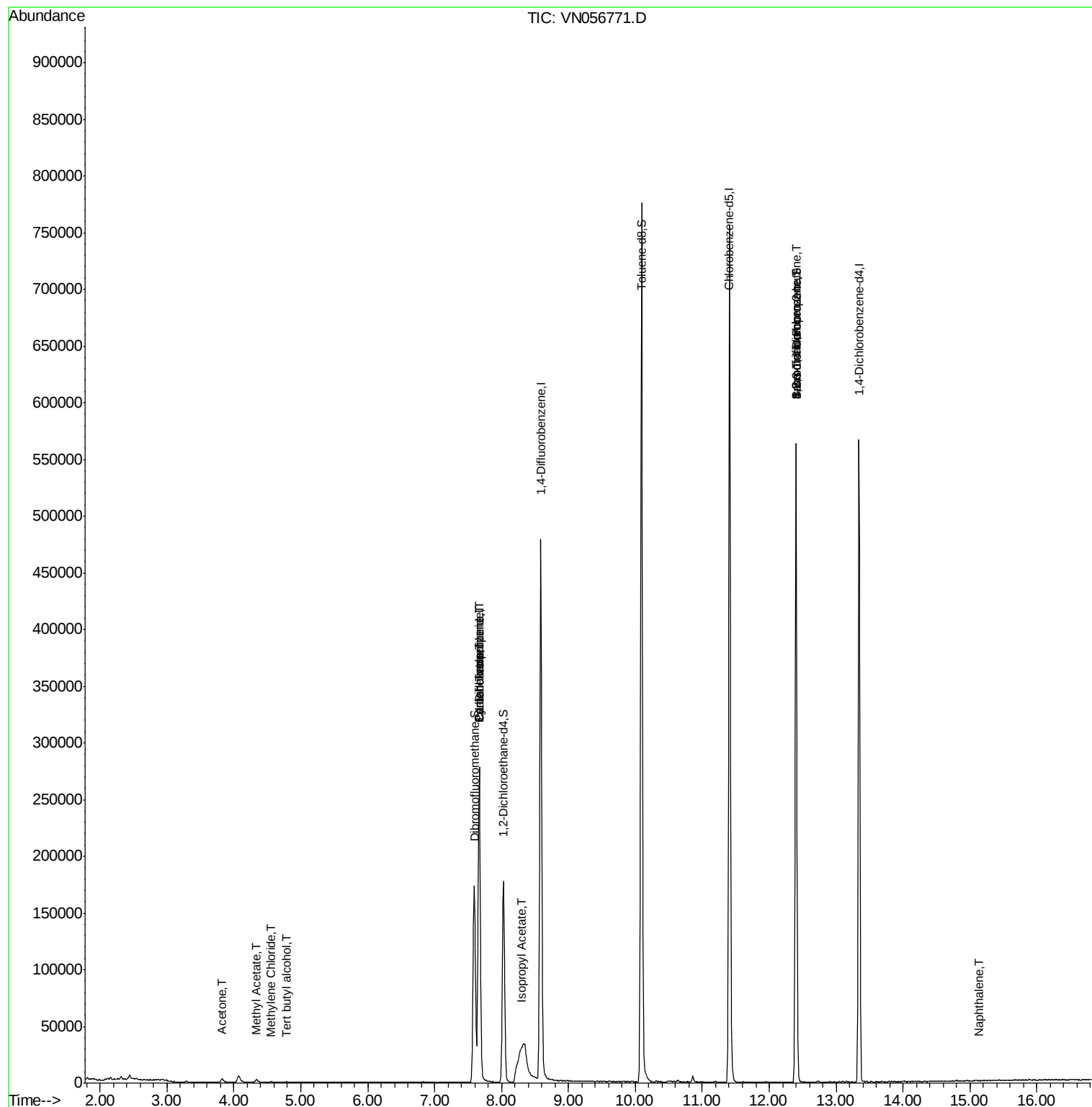
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.79	59	981	2.105	ug/l #	73
16) Acetone	3.82	43	6399	4.959	ug/l	96
18) Methyl Acetate	4.34	43	5139	0.816	ug/l #	83
20) Methylene Chloride	4.56	84	574	0.204	ug/l #	49
31) Cyclohexane	7.66	56	4024	0.899	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	16631	3.973	ug/l #	48
38) Carbon Tetrachloride	7.67	117	22597	5.757	ug/l #	16
43) Isopropyl Acetate	8.30	43	54724	8.438	ug/l #	54
71) Bromoform	12.40	173	1557	0.577	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	94482	26.237	ug/l #	100
79) 2-Chlorotoluene	12.40	91	410	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	94482	81.028	ug/l #	13
95) Naphthalene	15.13	128	141	4.540	ug/l #	69

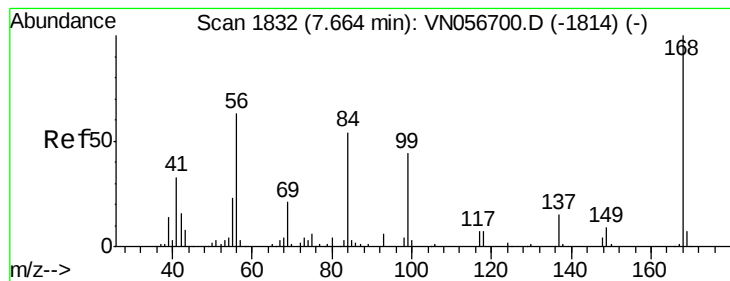
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jul 16 07:03:34 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN056771.D

Acq: 16 Jul 2019 16:09

Instrument :

MSVOA_N

ClientSampled :

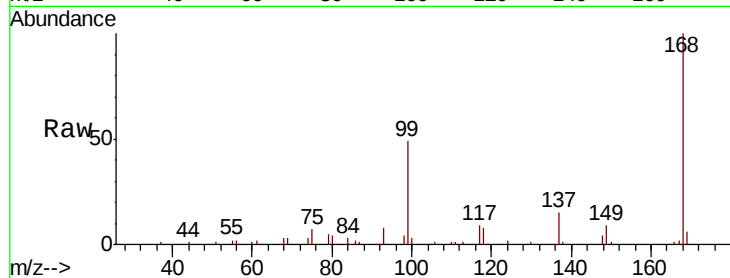
MW-4

Tot Ion:168 Resp: 253150

Ion Ratio Lower Upper

168 100

99 49.4 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

100000

80000

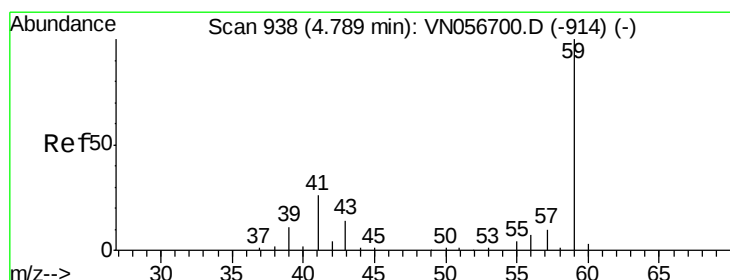
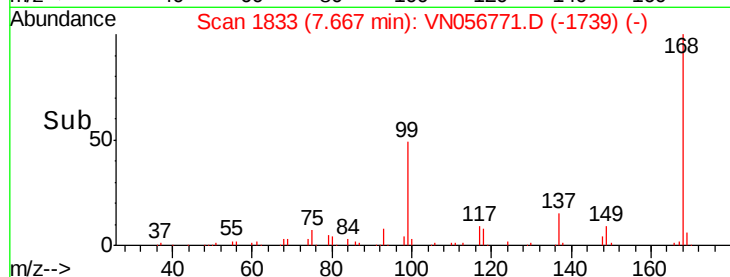
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 2.105 ug/l

RT: 4.79 min Scan# 938

Delta R.T. -0.00 min

Lab File: VN056771.D

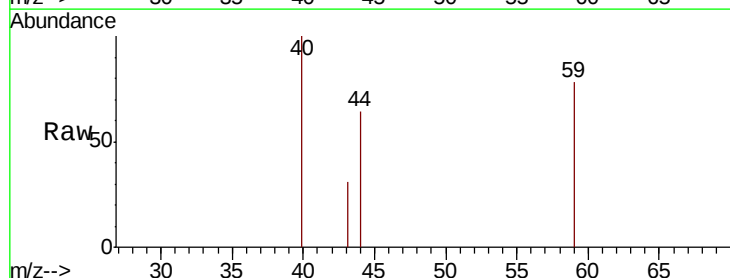
Acq: 16 Jul 2019 16:09

Tgt Ion: 59 Resp: 981

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.79

400

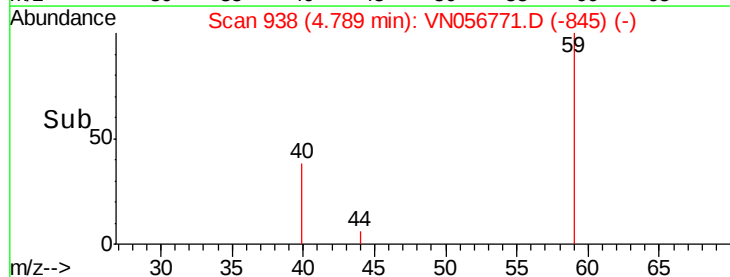
300

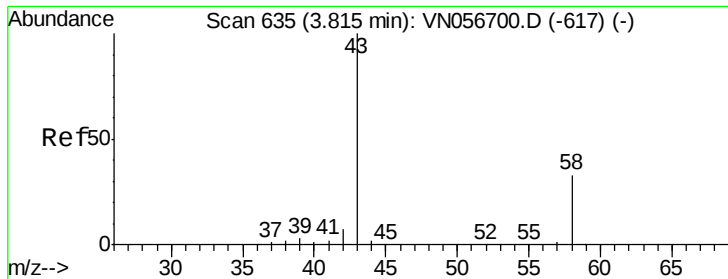
200

100

0

Time-->





#16

Acetone

Concen: 4.959 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN056771.D

Acq: 16 Jul 2019 16:09

Instrument :

MSVOA_N

ClientSampled :

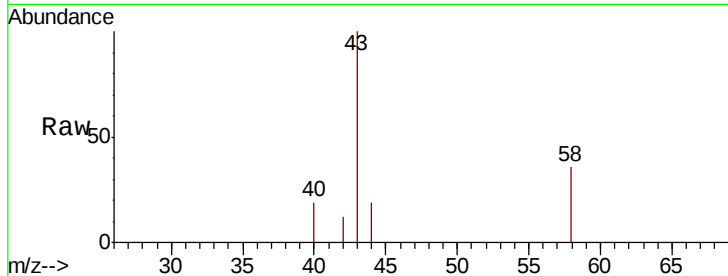
MW-4

Tot Ion: 43 Resp: 6399

Ion Ratio Lower Upper

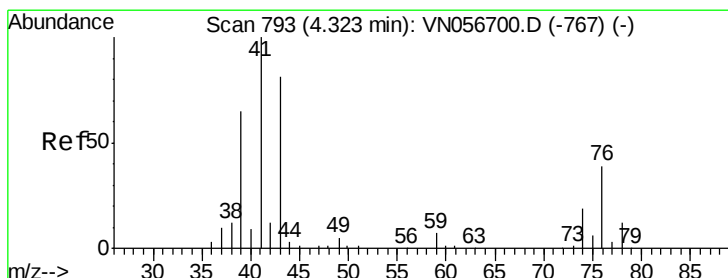
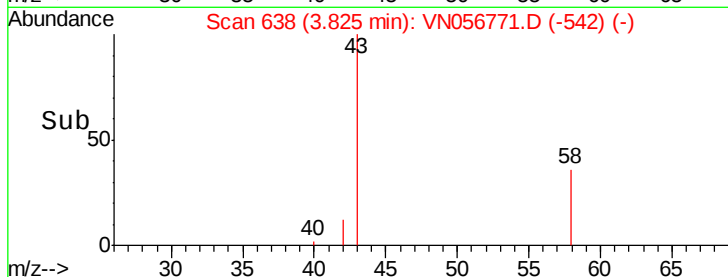
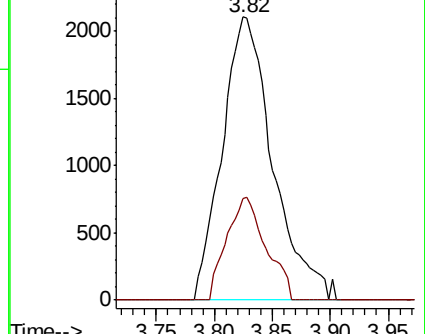
43 100

58 35.9 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.816 ug/l

RT: 4.34 min Scan# 798

Delta R.T. 0.02 min

Lab File: VN056771.D

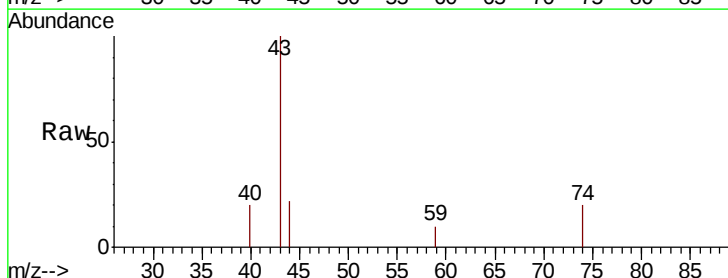
Acq: 16 Jul 2019 16:09

Tgt Ion: 43 Resp: 5139

Ion Ratio Lower Upper

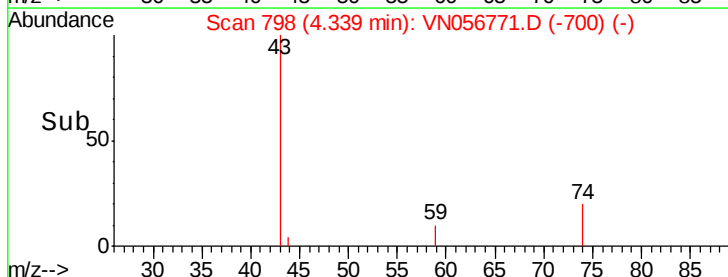
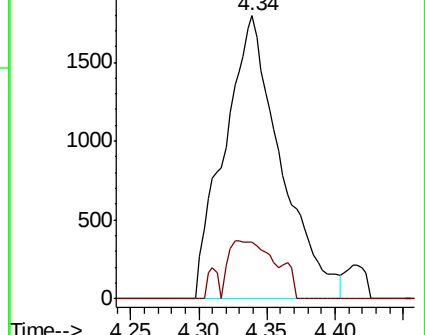
43 100

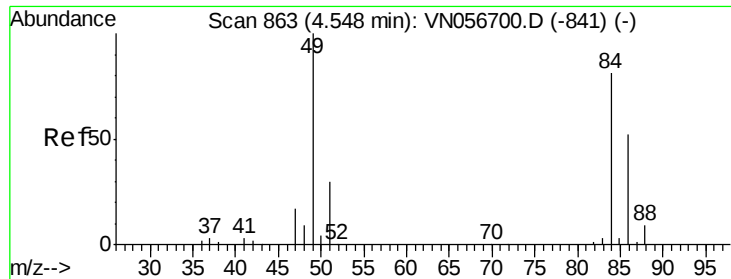
74 15.0 18.9 28.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

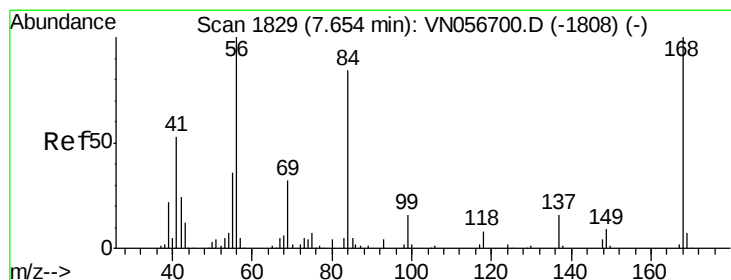
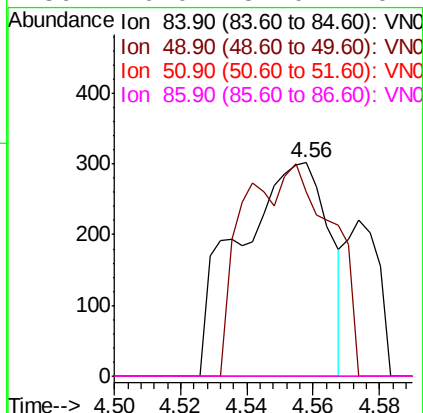
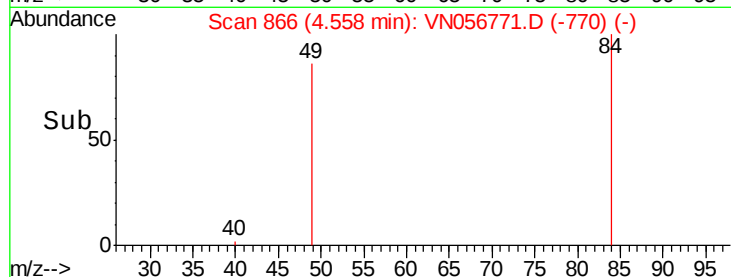
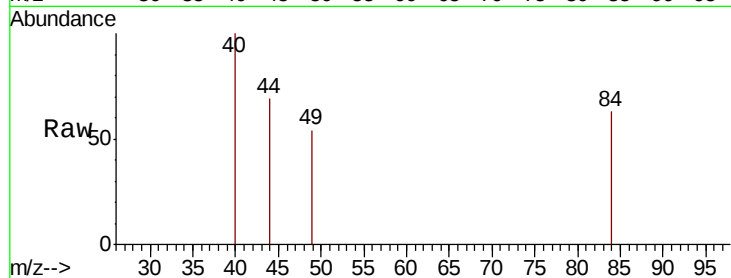




#20
Methylene Chloride
Concen: 0.204 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN056771.D
Acq: 16 Jul 2019 16:09

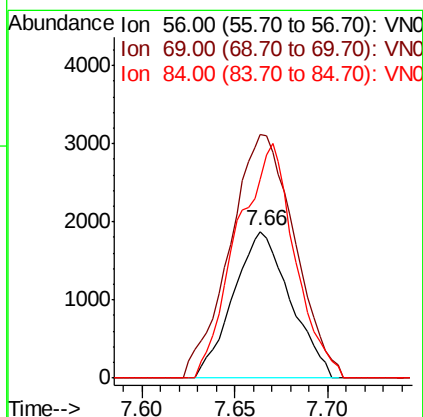
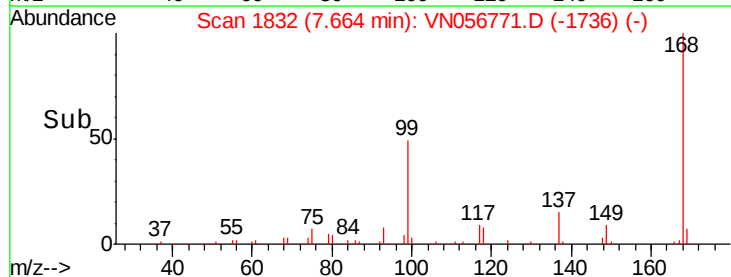
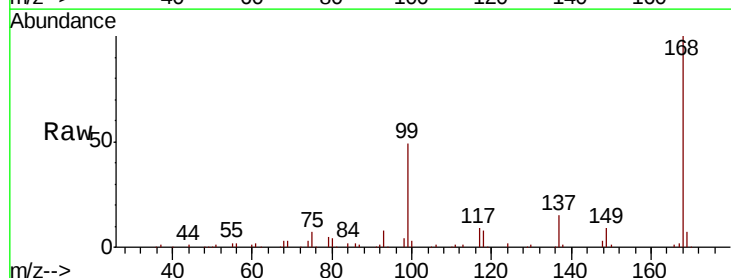
Instrument :
MSVOA_N
ClientSampled :
MW-4

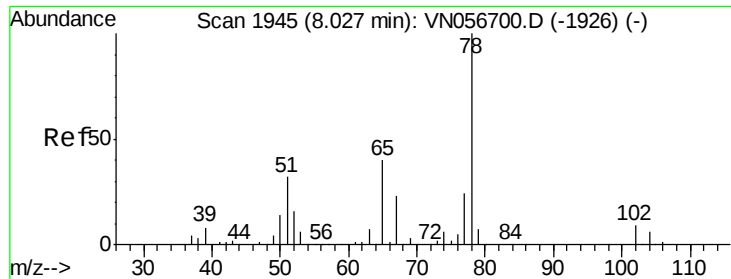
Tot Ion: 84 Resp: 574
Ion Ratio Lower Upper
84 100
49 86.1 98.2 147.4#
51 0.0 29.6 44.4#
86 0.0 51.0 76.4#



#31
Cyclohexane
Concen: 0.899 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN056771.D
Acq: 16 Jul 2019 16:09

Tgt Ion: 56 Resp: 4024
Ion Ratio Lower Upper
56 100
69 156.8 25.8 38.8#
84 135.5 67.4 101.0#

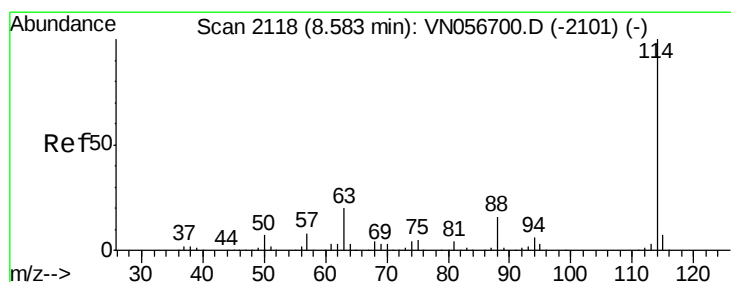
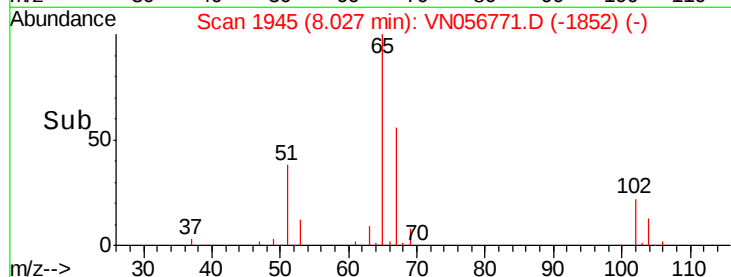
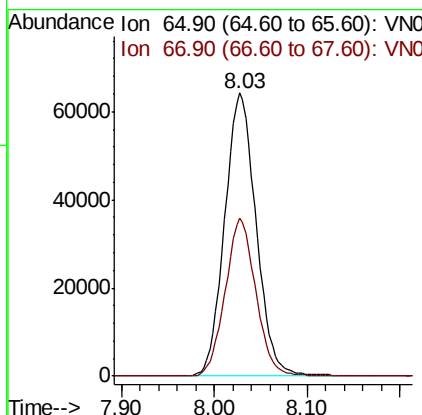
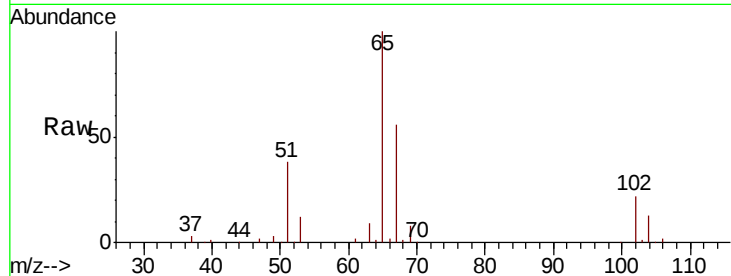




#33
 1,2-Dichloroethane-d4
 Concen: 53.968 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN056771.D
 Acq: 16 Jul 2019 16:09

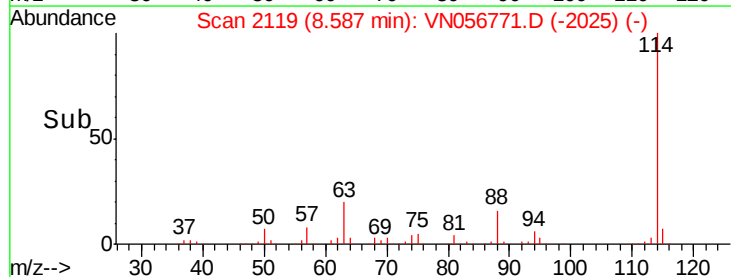
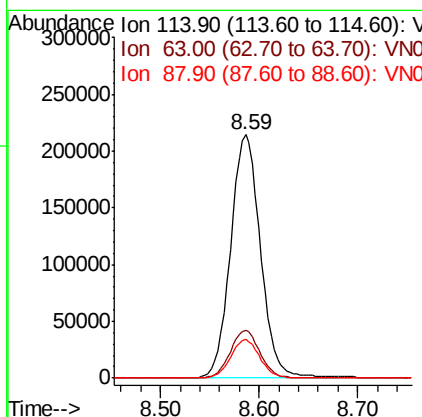
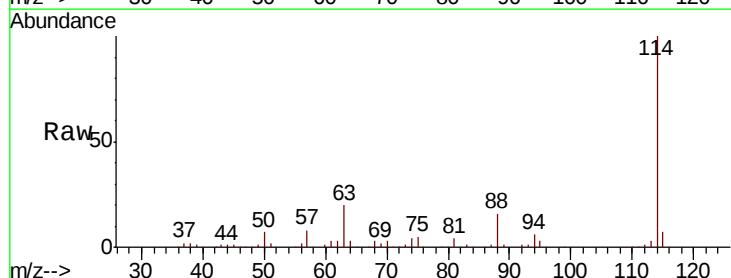
Instrument :
 MSVOA_N
 ClientSampled :
 MW-4

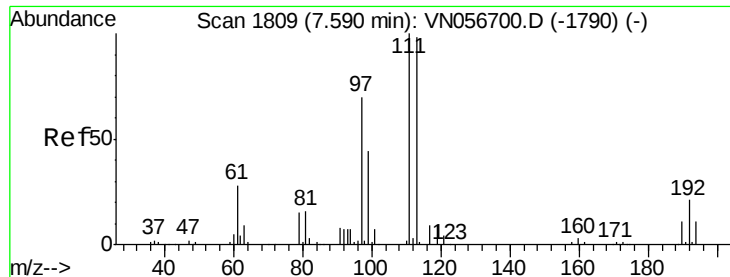
Tot Ion: 65 Resp: 151120
 Ion Ratio Lower Upper
 65 100
 67 54.1 0.0 109.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056771.D
 Acq: 16 Jul 2019 16:09

Tgt Ion: 114 Resp: 452334
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 39.4
 88 15.8 0.0 31.2





#35

Dibromofluoromethane

Concen: 48.245 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN056771.D

Acq: 16 Jul 2019 16:09

Instrument :

MSVOA_N

ClientSampled :

MW-4

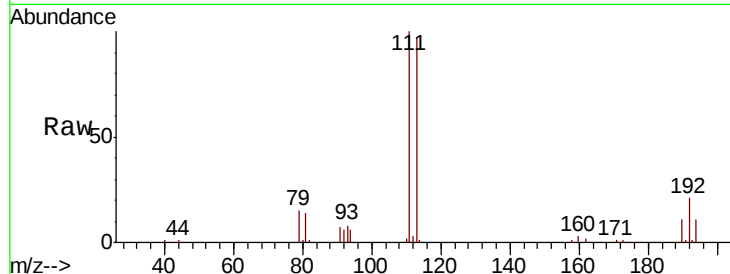
Tot Ion:113 Resp: 135809

Ion Ratio Lower Upper

113 100

111 100.9 81.8 122.6

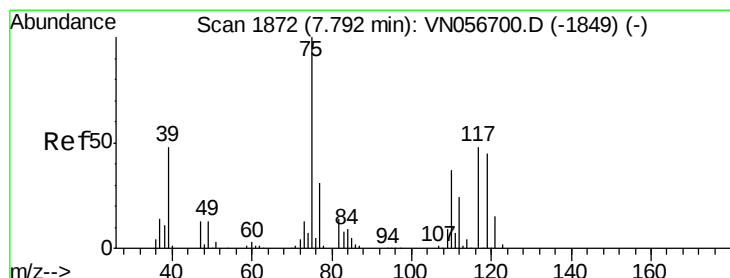
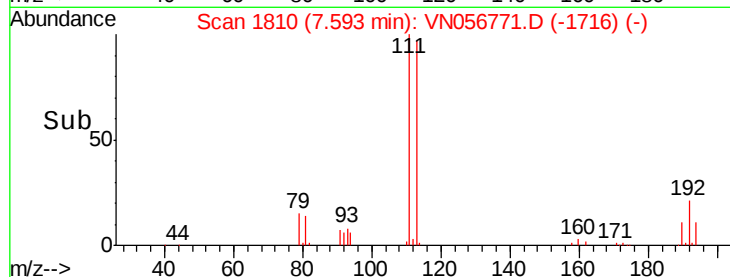
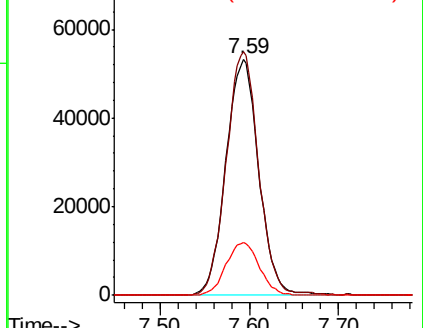
192 22.6 17.5 26.3



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: 3.973 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN056771.D

Acq: 16 Jul 2019 16:09

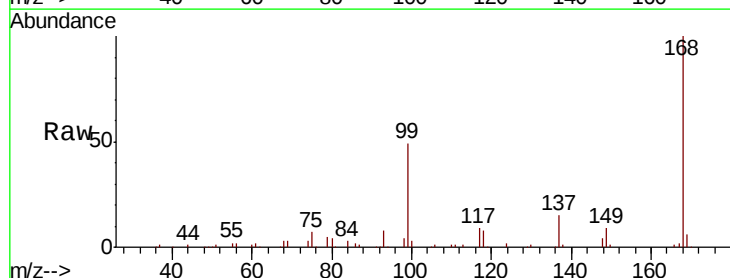
Tgt Ion: 75 Resp: 16631

Ion Ratio Lower Upper

75 100

110 8.1 18.4 55.4#

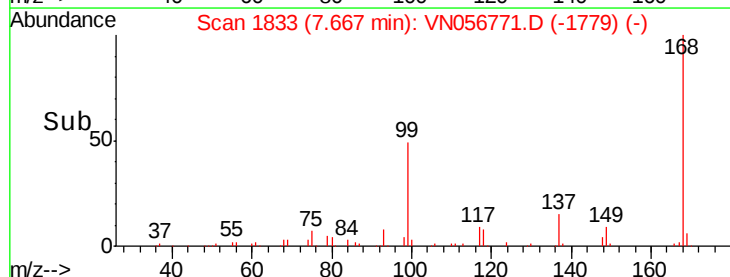
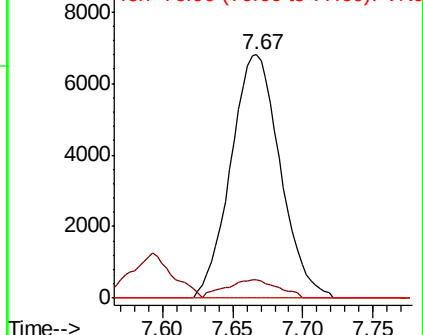
77 0.0 24.6 36.8#

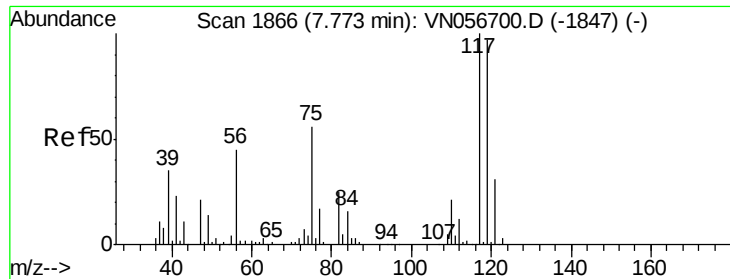


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VNO





#38

Carbon Tetrachloride

Concen: 5.757 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN056771.D

Acq: 16 Jul 2019 16:09

Instrument :

MSVOA_N

ClientSampled :

MW-4

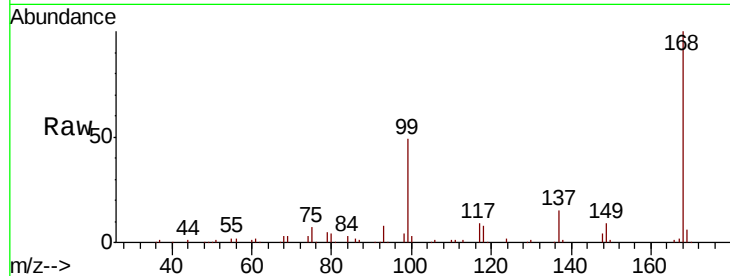
Tot Ion:117 Resp: 22597

Ion Ratio Lower Upper

117 100

119 5.3 77.5 116.3#

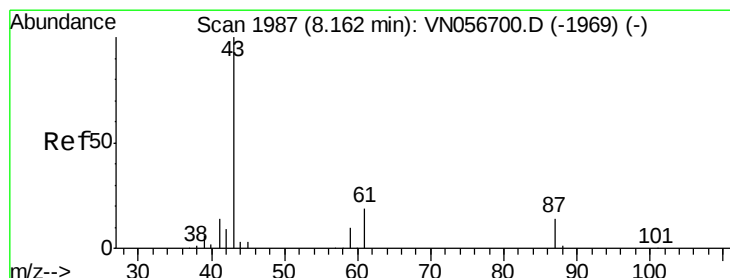
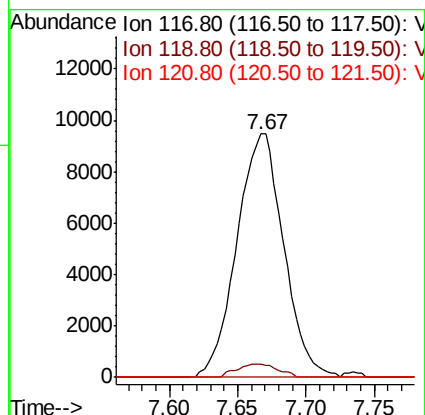
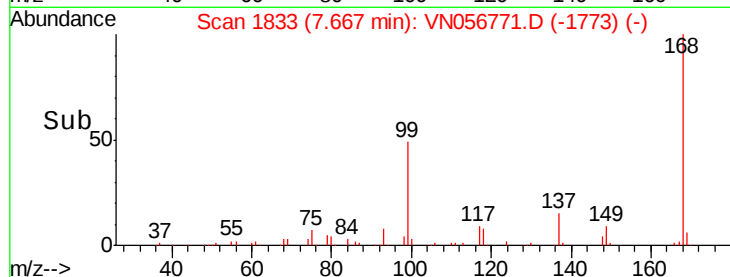
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 8.438 ug/l

RT: 8.30 min Scan# 2029

Delta R.T. 0.13 min

Lab File: VN056771.D

Acq: 16 Jul 2019 16:09

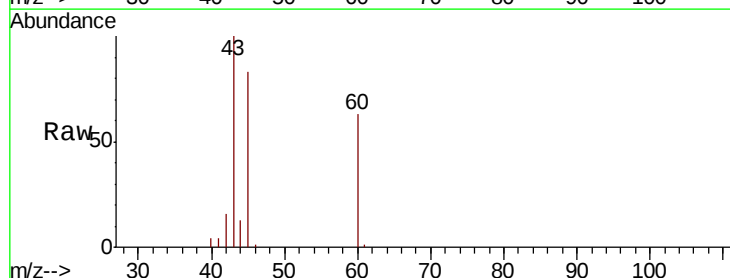
Tgt Ion: 43 Resp: 54724

Ion Ratio Lower Upper

43 100

61 0.5 22.3 33.5#

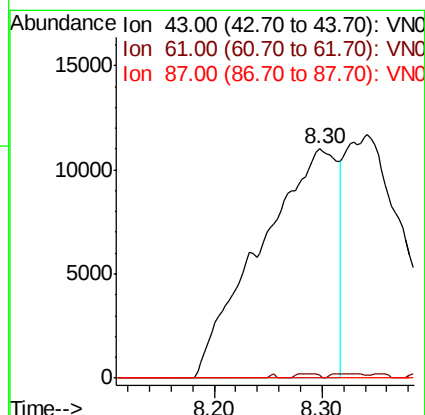
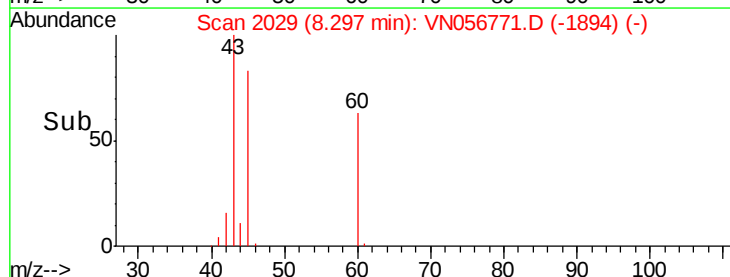
87 0.0 11.1 16.7#

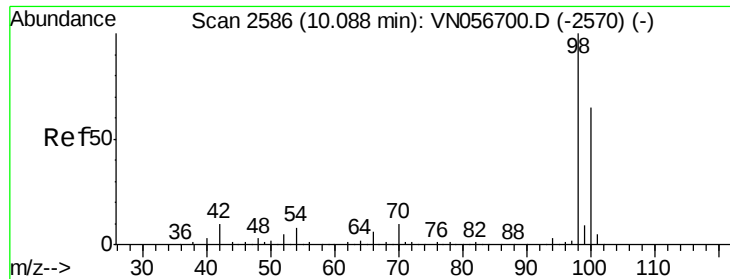


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#50

Toluene-d8

Concen: 52.027 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056771.D

Acq: 16 Jul 2019 16:09

Instrument :

MSVOA_N

ClientSampleId :

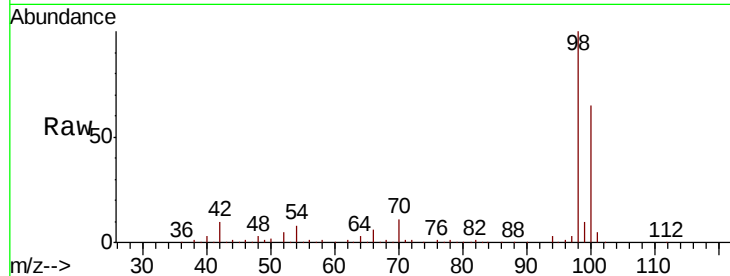
MW-4

Tot Ion: 98 Resp: 565644

Ion Ratio Lower Upper

98 100

100 64.9 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN056700.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN056771.D (-2493) (-)

10.09

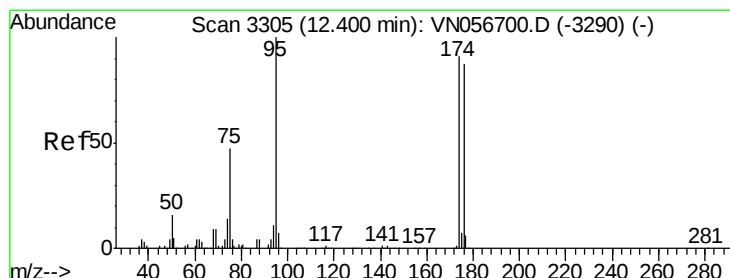
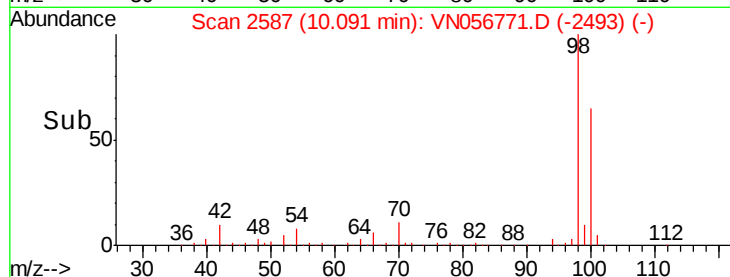
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 55.321 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056771.D

Acq: 16 Jul 2019 16:09

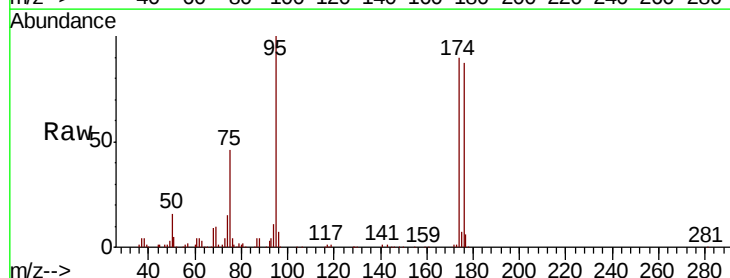
Tgt Ion: 95 Resp: 202830

Ion Ratio Lower Upper

95 100

174 90.8 0.0 180.0

176 86.4 0.0 173.2



Abundance Ion 94.90 (94.60 to 95.60): VN056700.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN056771.D (-3212) (-)

Ion 175.80 (175.50 to 176.50): VN056771.D (-3212) (-)

12.40

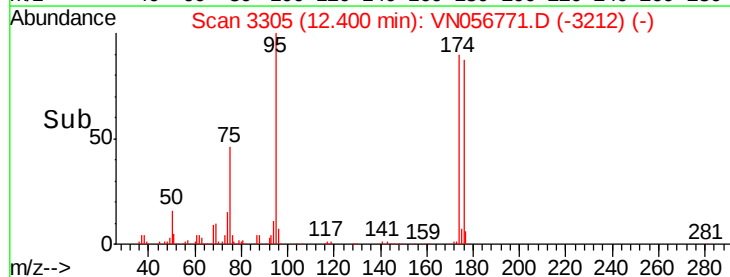
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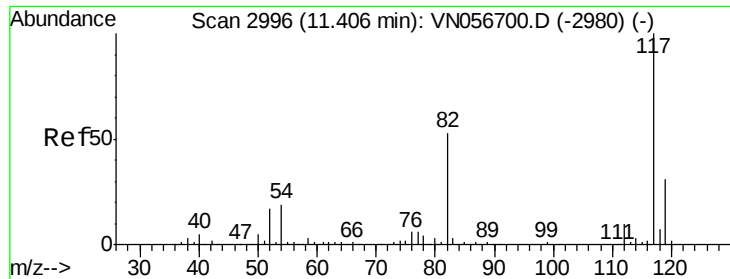
100000

50000

0

Time-->





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN056771.D

Acq: 16 Jul 2019 16:09

Instrument :

MSVOA_N

ClientSampleId :

MW-4

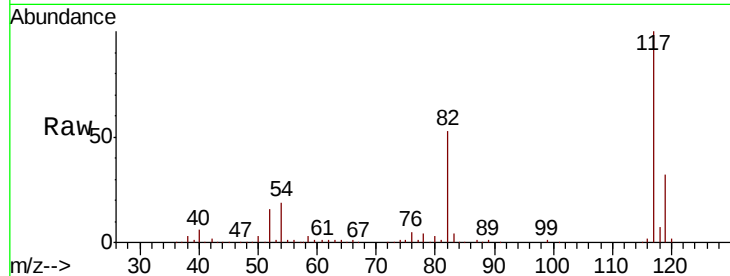
Tot Ion:117 Resp: 471212

Ion Ratio Lower Upper

117 100

82 53.1 42.2 63.2

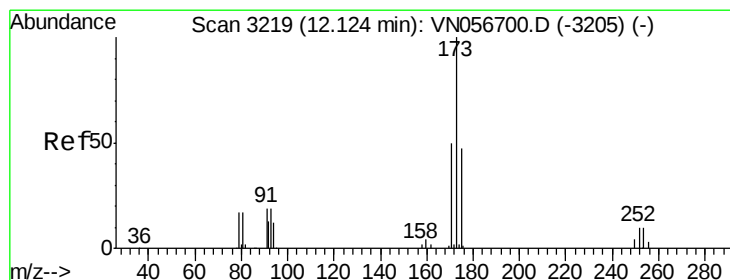
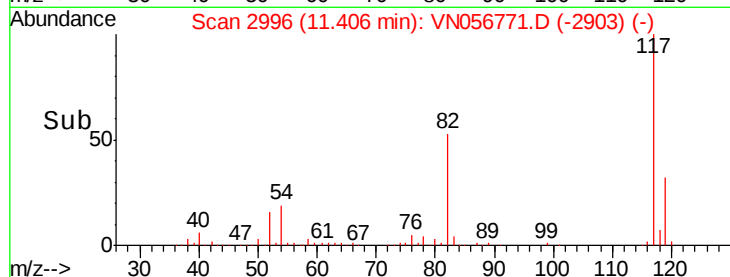
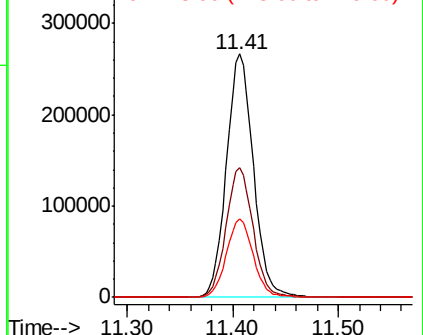
119 32.1 25.2 37.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 0.577 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN056771.D

Acq: 16 Jul 2019 16:09

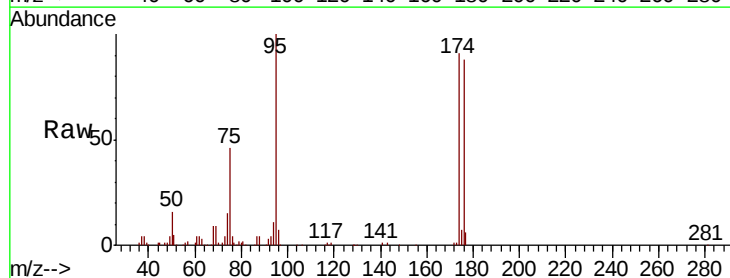
Tgt Ion:173 Resp: 1557

Ion Ratio Lower Upper

173 100

175 724.2 23.8 71.4#

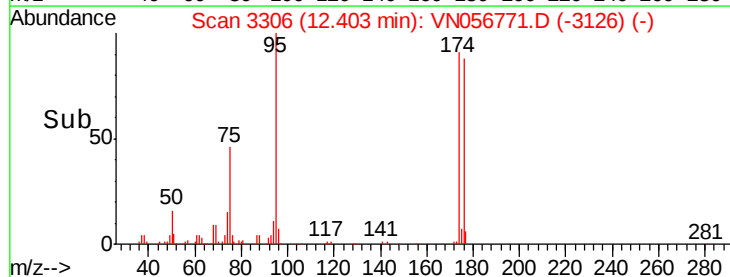
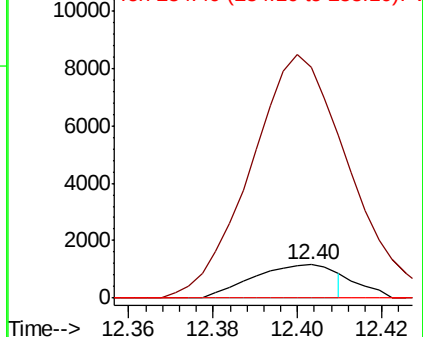
254 0.0 0.0 0.0

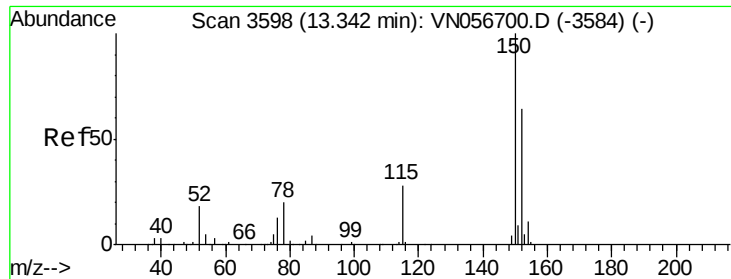


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN056771.D

Acq: 16 Jul 2019 16:09

Instrument :

MSVOA_N

ClientSampleId :

MW-4

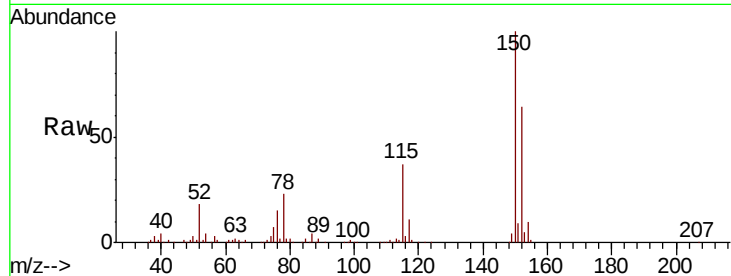
Tot Ion:152 Resp: 164649

Ion Ratio Lower Upper

152 100

115 57.0 28.2 84.7

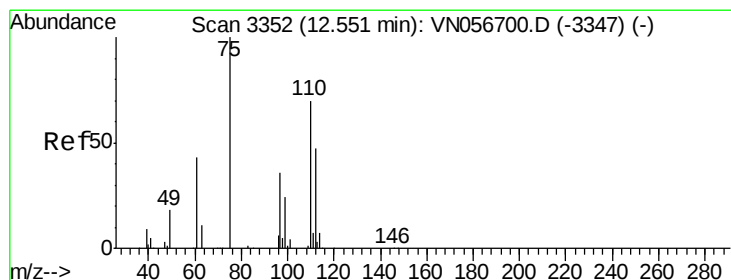
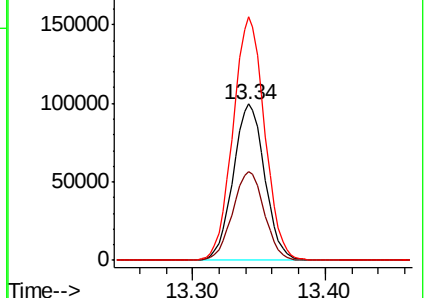
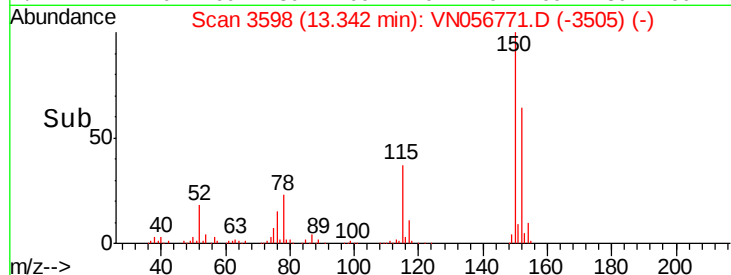
150 156.0 0.0 345.8



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: 26.237 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056771.D

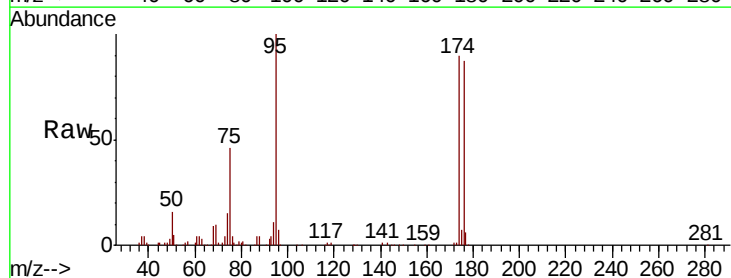
Acq: 16 Jul 2019 16:09

Tgt Ion: 75 Resp: 94482

Ion Ratio Lower Upper

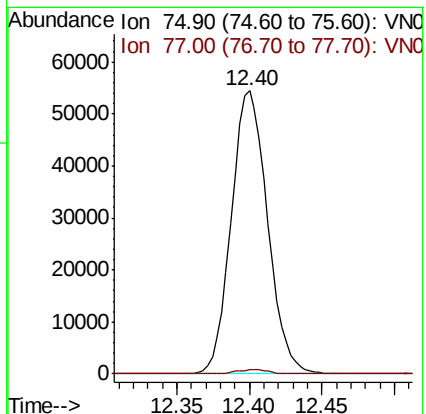
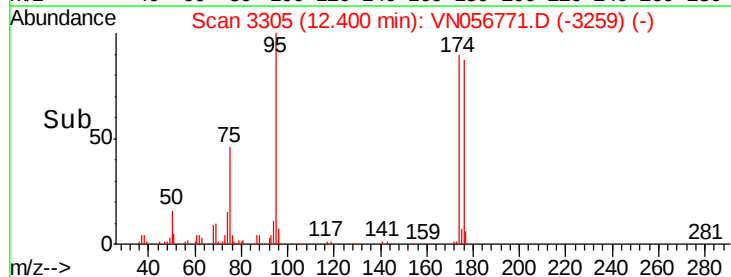
75 100

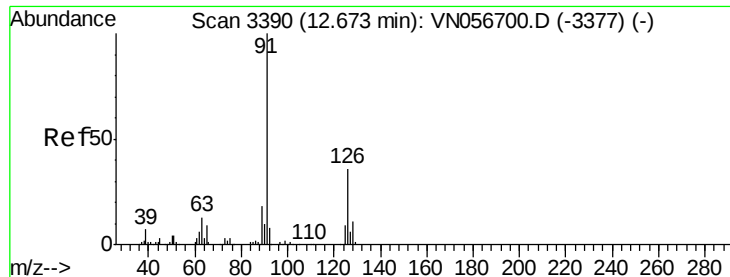
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.40 min Scan# 3305

Delta R.T. -0.27 min

Lab File: VN056771.D

Acq: 16 Jul 2019 16:09

Instrument :

MSVOA_N

ClientSampleId :

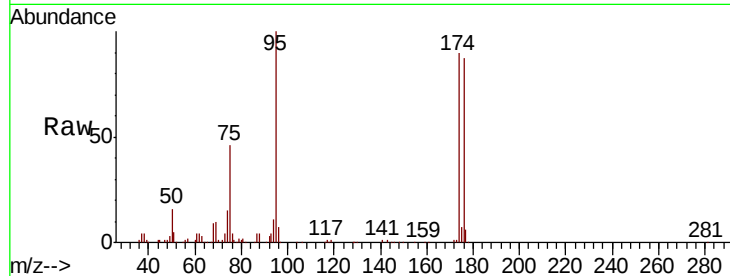
MW-4

Tot Ion: 91 Resp: 410

Ion Ratio Lower Upper

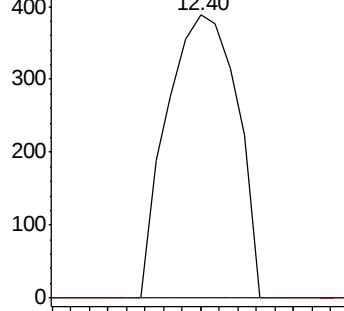
91 100

126 0.0 17.9 53.7#

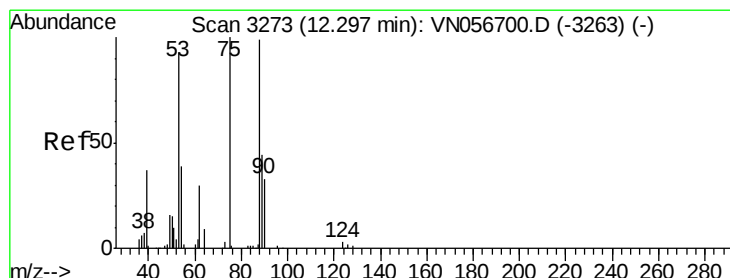
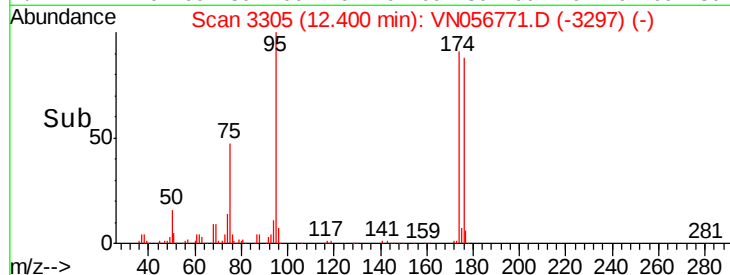


Abundance Ion 91.00 (90.70 to 91.70): VNO

Ion 125.90 (125.60 to 126.60): V



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 81.028 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056771.D

Acq: 16 Jul 2019 16:09

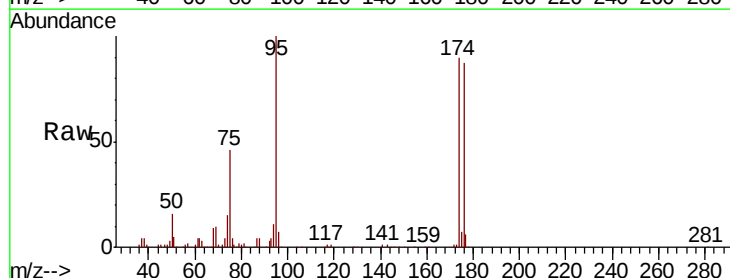
Tgt Ion: 75 Resp: 94482

Ion Ratio Lower Upper

75 100

53 0.0 73.7 110.5#

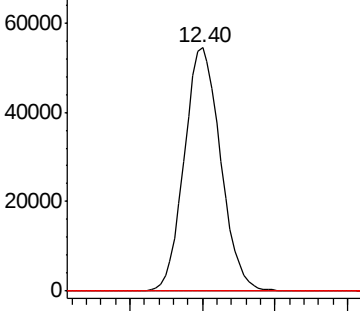
89 0.0 36.2 54.2#



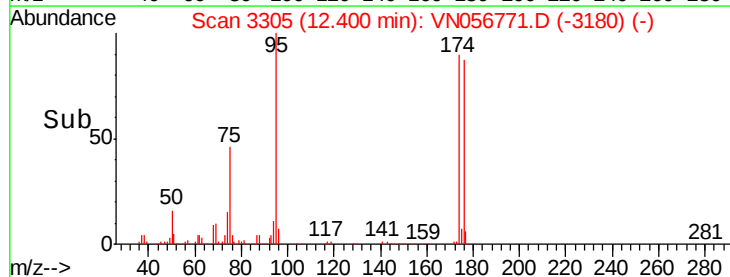
Abundance Ion 74.90 (74.60 to 75.60): VNO

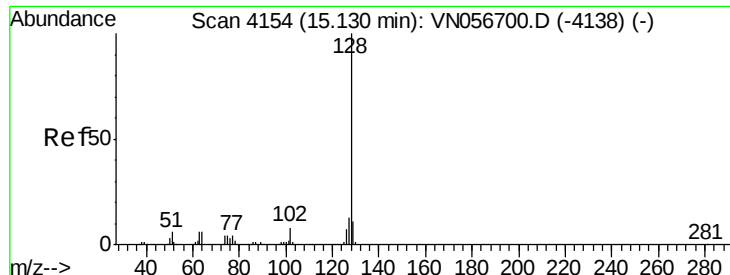
Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO



Time-->





#95

Naphthalene

Concen: 4.540 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056771.D

Acq: 16 Jul 2019 16:09

Instrument :

MSVOA_N

ClientSampleId :

MW-4

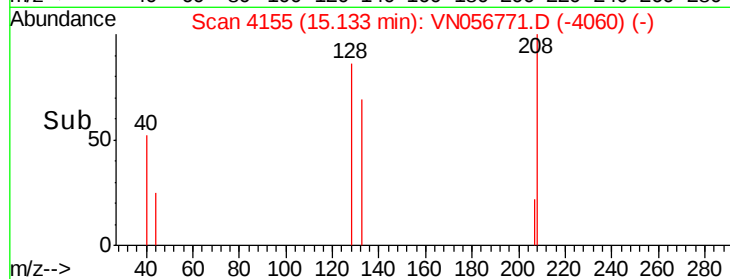
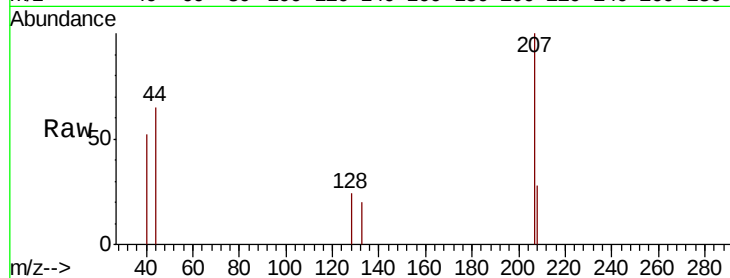
Tot Ion:128 Resp: 141

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

