

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071919\
 Data File : VN056823.D
 Acq On : 19 Jul 2019 11:48
 Operator : JC/SP
 Sample : PB121463ZHE#09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 19 23:12:49 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	244742	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	443881	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	486888	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	171688	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	146198	54.00	ug/l	0.00
Spiked Amount			Recovery	=	108.00%	
35) Dibromofluoromethane	7.59	113	134956	48.86	ug/l	0.00
Spiked Amount			Recovery	=	97.72%	
50) Toluene-d8	10.09	98	570709	53.49	ug/l	0.00
Spiked Amount			Recovery	=	106.98%	
62) 4-Bromofluorobenzene	12.40	95	208416	57.93	ug/l	0.00
Spiked Amount			Recovery	=	115.86%	

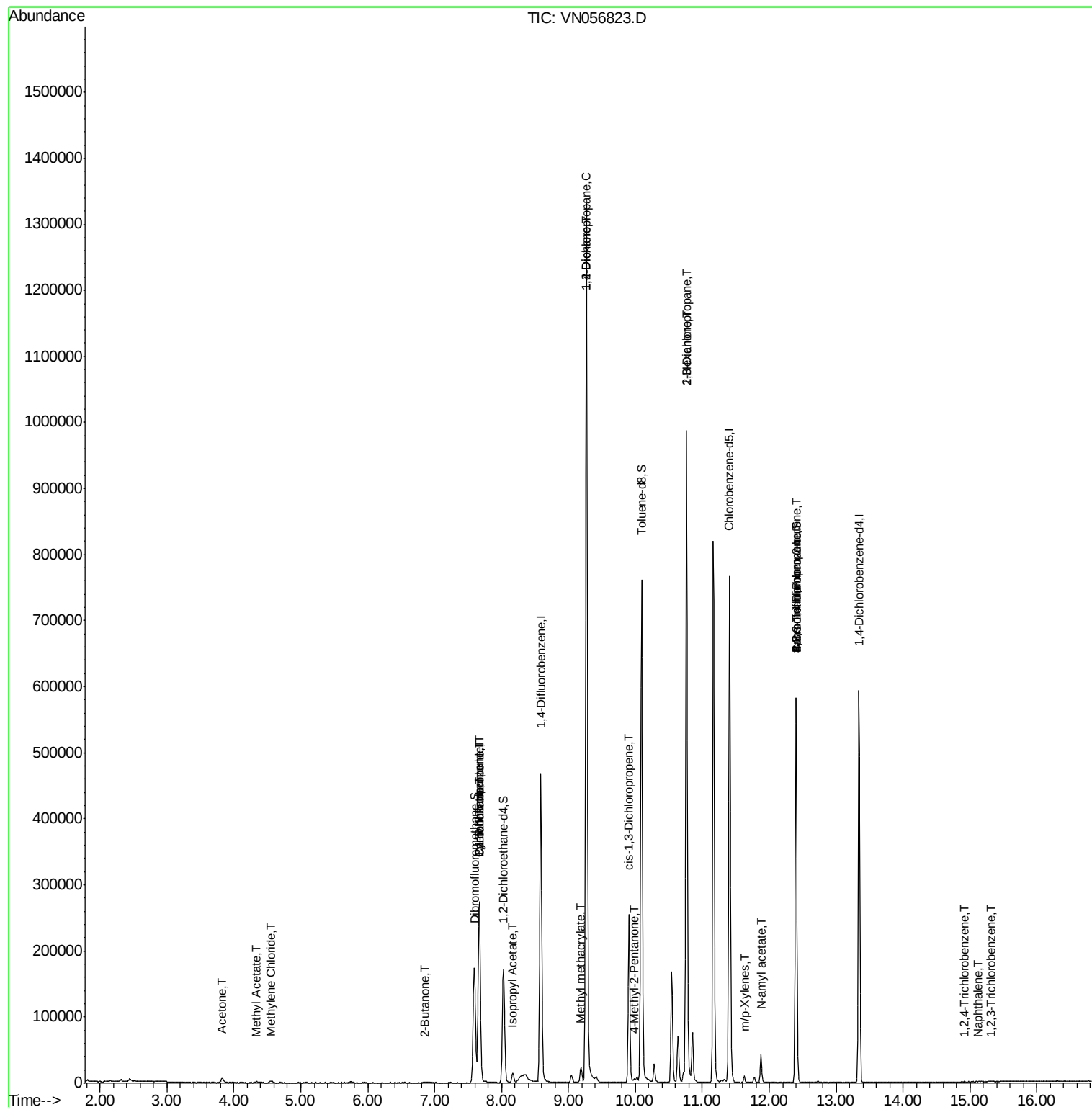
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	12622	10.118	ug/l	98
18) Methyl Acetate	4.33	43	4068	0.488	ug/l #	71
20) Methylene Chloride	4.56	84	2236	0.820	ug/l #	83
25) 2-Butanone	6.85	43	2823	1.548	ug/l	97
31) Cyclohexane	7.66	56	3653	0.844	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	15610	3.800	ug/l #	48
38) Carbon Tetrachloride	7.67	117	21204	5.505	ug/l #	16
43) Isopropyl Acetate	8.17	43	18251	2.868	ug/l #	88
45) 1,2-Dichloropropane	9.27	63	1721	0.515	ug/l #	45
48) Methyl methacrylate	9.18	41	8751	2.843	ug/l #	13
49) 1,4-Dioxane	9.26	88	59	0.934	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	4016	0.974	ug/l	99
54) cis-1,3-Dichloropropene	9.90	75	48639	10.201	ug/l #	62
57) 1,3-Dichloropropane	10.76	76	11000	2.148	ug/l #	42
59) 2-Hexanone	10.76	43	144721	48.930	ug/l #	51
68) m/p-Xylenes	11.63	106	2973	0.455	ug/l	83
71) Bromoform	12.40	173	1497	0.537	ug/l #	1
74) N-amyl acetate	11.88	43	12907	2.503	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	96072	25.585	ug/l #	100
79) 2-Chlorotoluene	12.59	91	61	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	96072	79.014	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.92	180	106	3.721	ug/l #	58
95) Naphthalene	15.13	128	526	4.578	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	407	3.437	ug/l #	56

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

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN056823.D

Acq: 19 Jul 2019 11:48

Instrument :

MSVOA_N

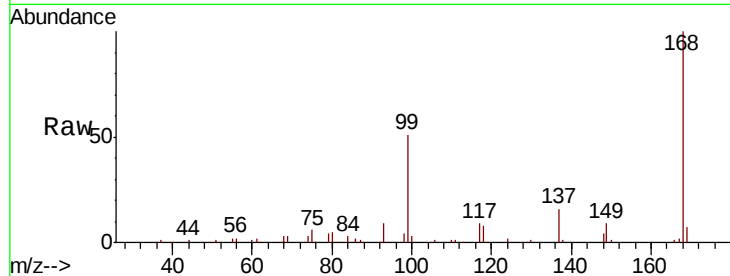
ClientSampleId :

Tot Ion:168 Resp: 244742

Ion Ratio Lower Upper

168 100

99 50.6 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

100000

80000

60000

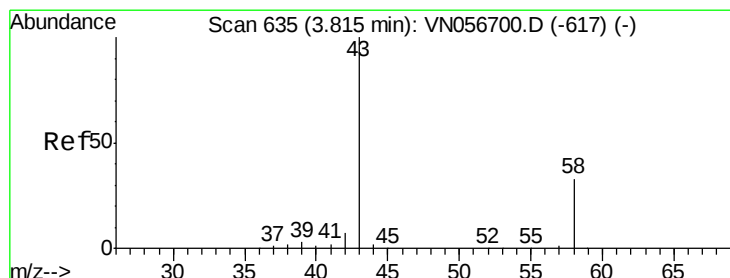
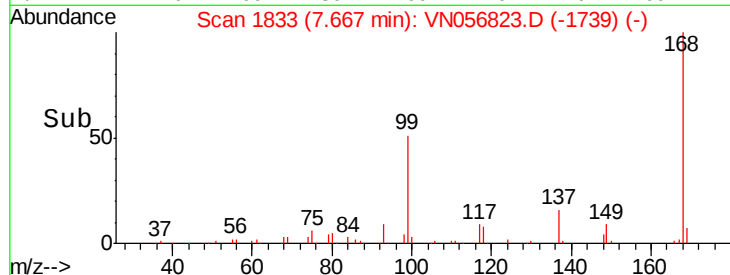
40000

20000

0

Time-->

7.60 7.70 7.80



#16

Acetone

Concen: 10.118 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN056823.D

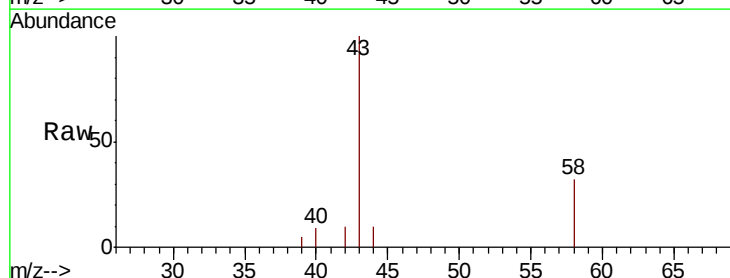
Acq: 19 Jul 2019 11:48

Tgt Ion: 43 Resp: 12622

Ion Ratio Lower Upper

43 100

58 32.3 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.82

5000

4000

3000

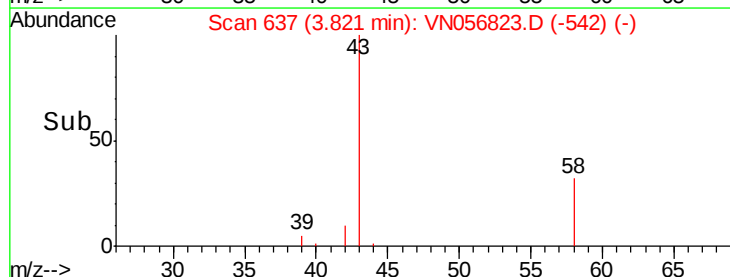
2000

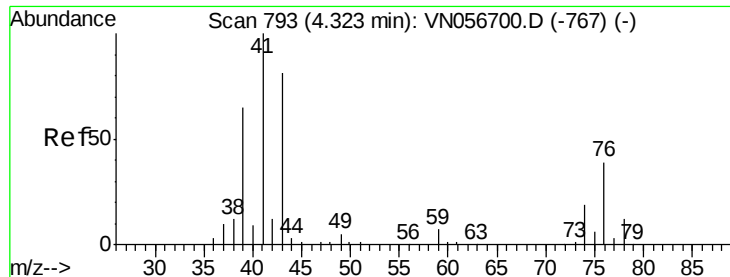
1000

0

Time-->

3.75 3.80 3.85 3.90





#18

Methyl Acetate

Concen: 0.488 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN056823.D

Acq: 19 Jul 2019 11:48

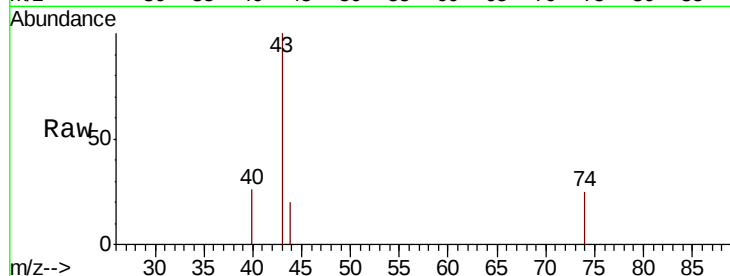
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 4068

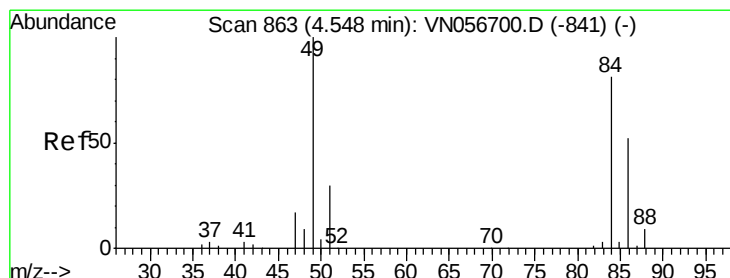
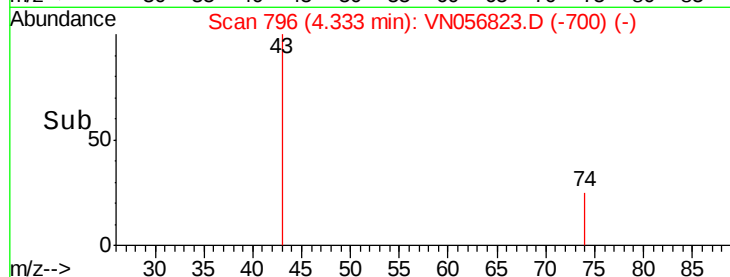
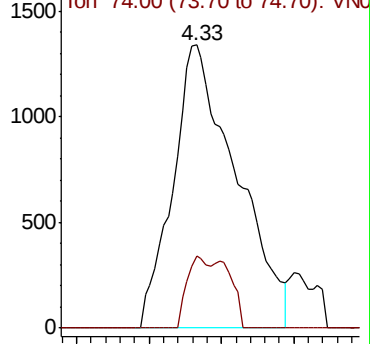
Ion Ratio Lower Upper

43 100

74 9.2 18.9 28.3#



Abundance Ion 43.00 (42.70 to 43.70): VN056823.D (-700) (-)



#20

Methylene Chloride

Concen: 0.820 ug/l

RT: 4.56 min Scan# 866

Delta R.T. 0.01 min

Lab File: VN056823.D

Acq: 19 Jul 2019 11:48

Tgt Ion: 84 Resp: 2236

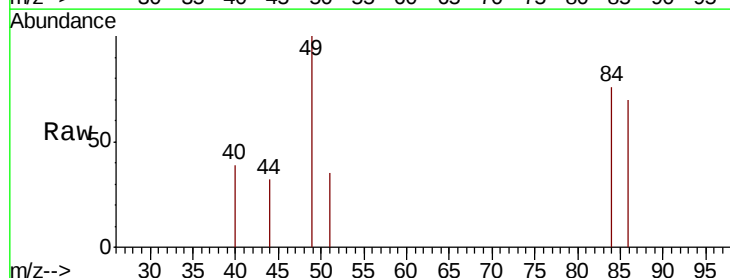
Ion Ratio Lower Upper

84 100

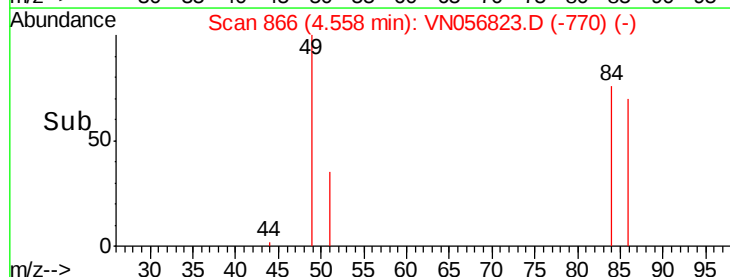
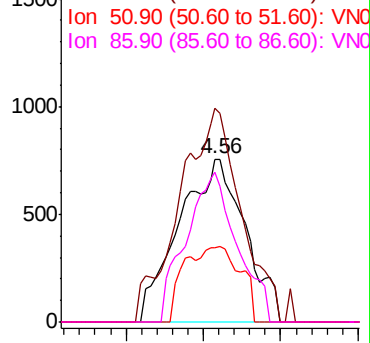
49 131.4 98.2 147.4

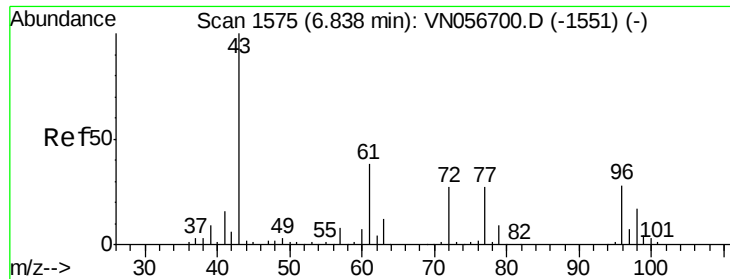
51 45.8 29.6 44.4#

86 92.3 51.0 76.4#



Abundance Ion 83.90 (83.60 to 84.60): VN056823.D (-770) (-)





#25

2-Butanone

Concen: 1.548 ug/l

RT: 6.85 min Scan# 1580

Delta R.T. 0.02 min

Lab File: VN056823.D

Acq: 19 Jul 2019 11:48

Instrument :

MSVOA_N

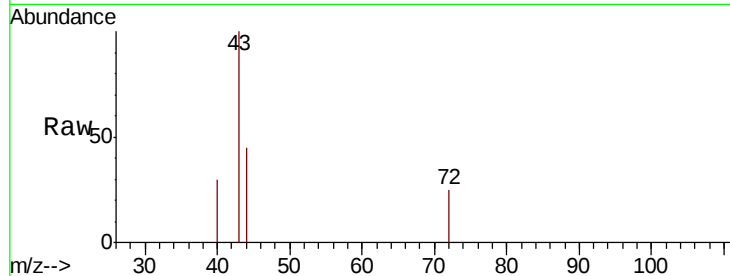
ClientSampled :

Tot Ion: 43 Resp: 2823

Ion Ratio Lower Upper

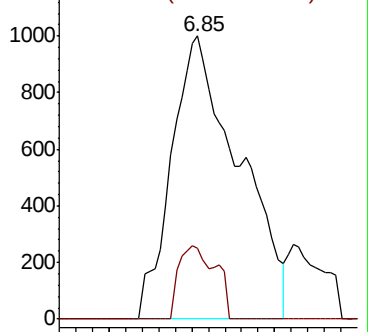
43 100

72 25.0 21.2 31.8

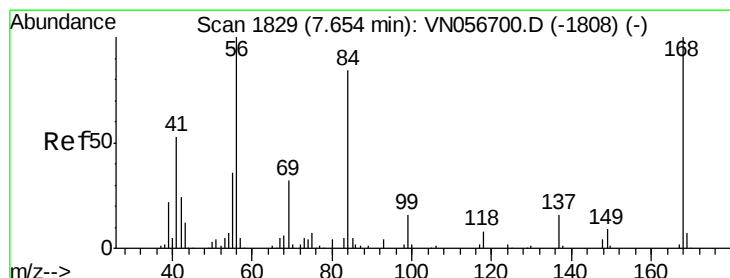
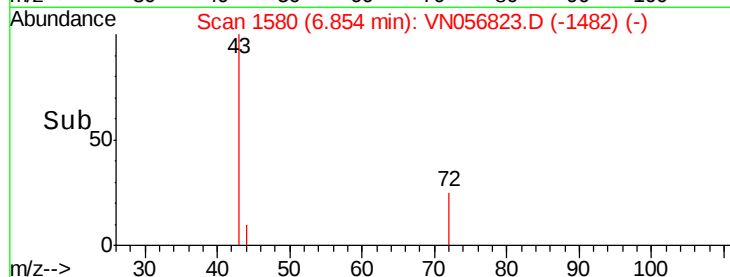


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



Time-->



#31

Cyclohexane

Concen: 0.844 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN056823.D

Acq: 19 Jul 2019 11:48

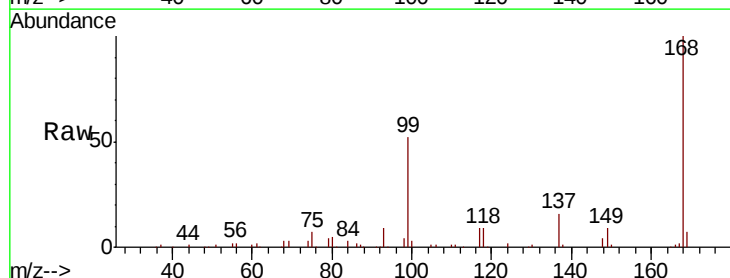
Tgt Ion: 56 Resp: 3653

Ion Ratio Lower Upper

56 100

69 163.7 25.8 38.8#

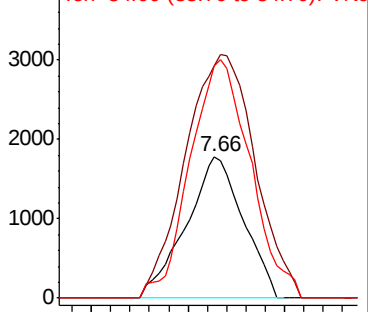
84 163.7 67.4 101.0#



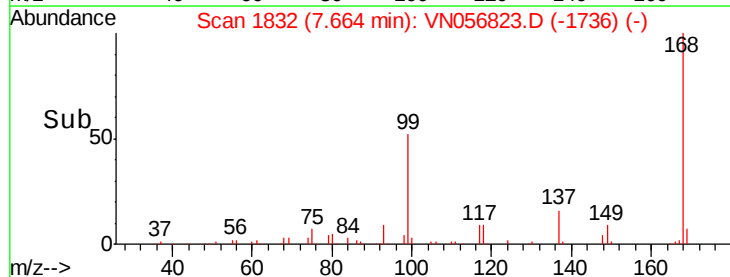
Abundance Ion 56.00 (55.70 to 56.70): VN0

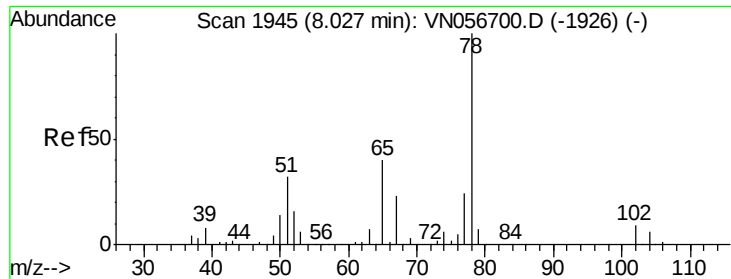
Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



Time-->

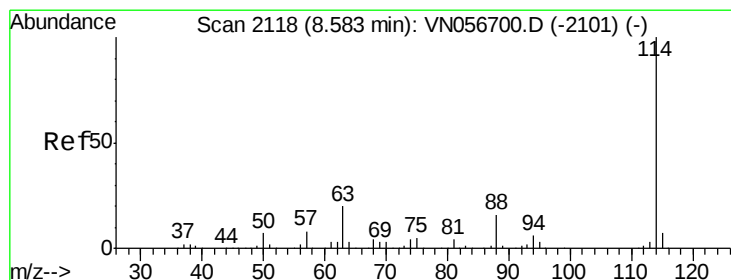
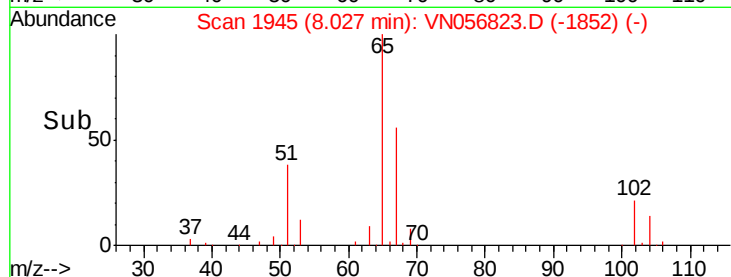
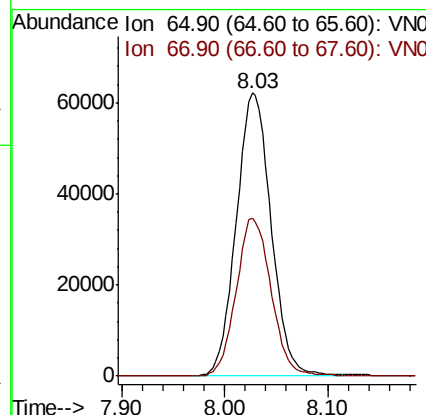
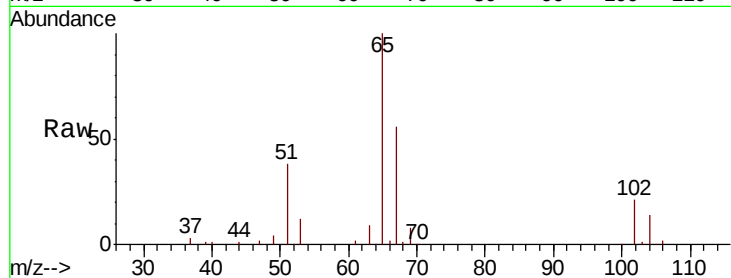




#33
 1,2-Dichloroethane-d4
 Concen: 54.004 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN056823.D
 Acq: 19 Jul 2019 11:48

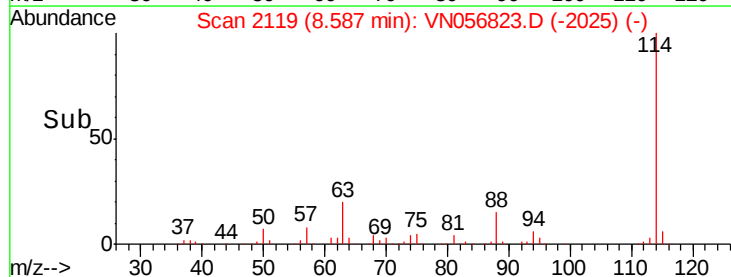
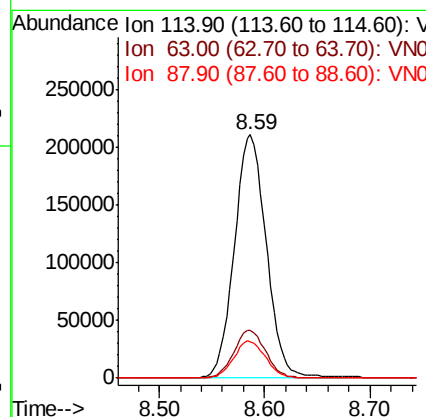
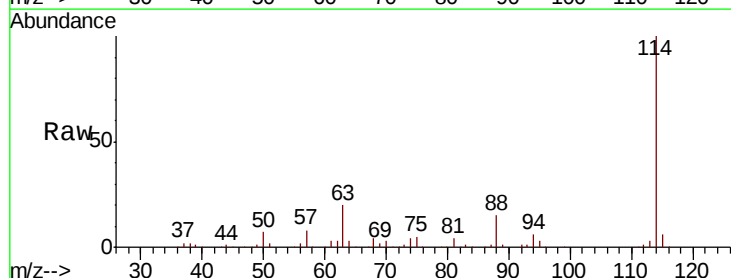
Instrument :
 MSVOA_N
 ClientSampleId :

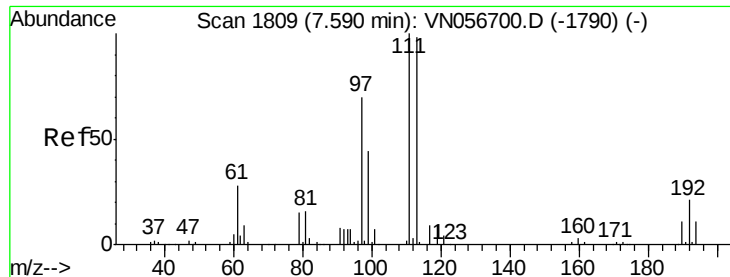
Tot Ion: 65 Resp: 146198
 Ion Ratio Lower Upper
 65 100
 67 56.0 0.0 109.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056823.D
 Acq: 19 Jul 2019 11:48

Tgt Ion: 114 Resp: 443881
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 39.4
 88 15.1 0.0 31.2

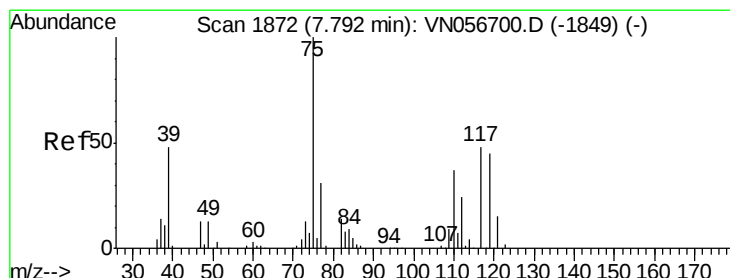
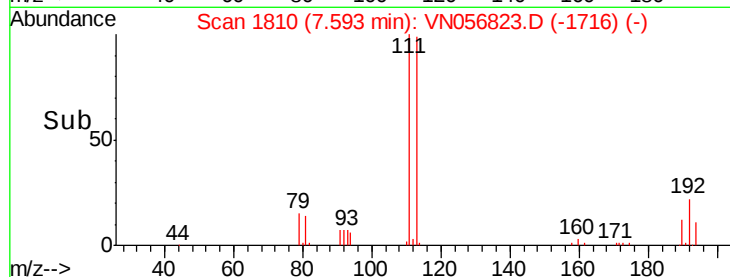
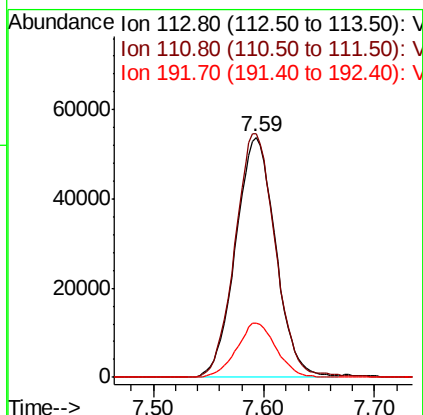
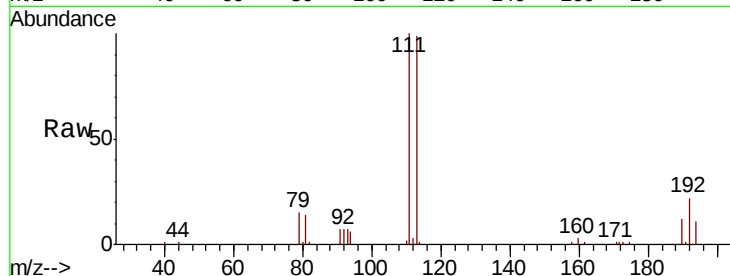




#35
 Dibromofluoromethane
 Concen: 48.855 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN056823.D
 Acq: 19 Jul 2019 11:48

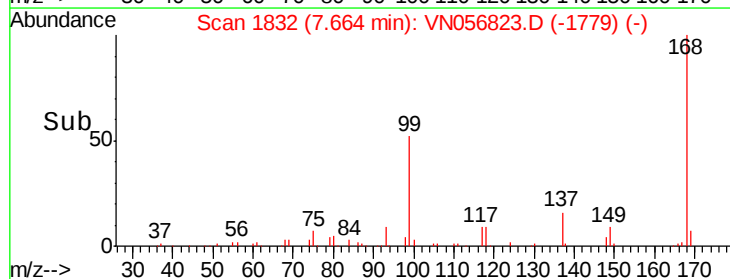
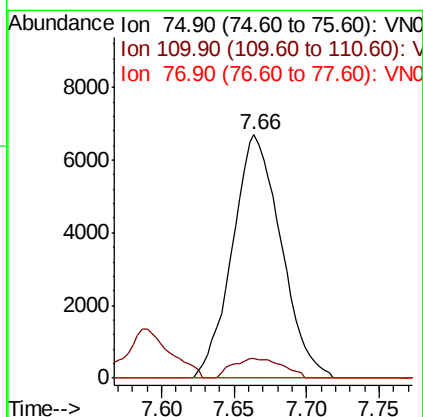
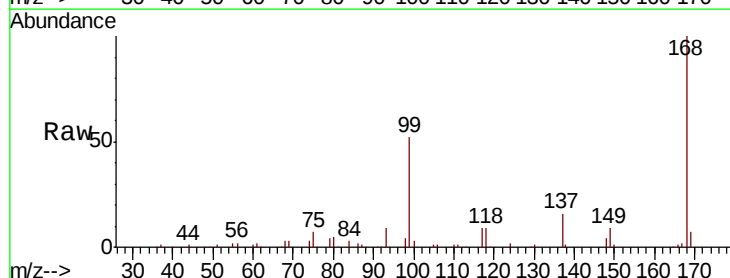
Instrument :
 MSVOA_N
 ClientSampleId :

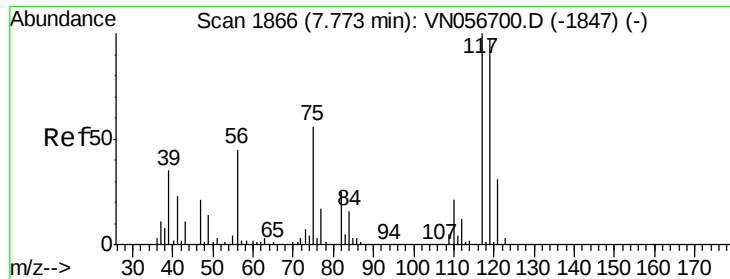
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.8	122.6
192	22.2	17.5	26.3



#36
 1,1-Dichloropropene
 Concen: 3.800 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056823.D
 Acq: 19 Jul 2019 11:48

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	18.4	55.4#
77	0.0	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 5.505 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN056823.D

Acq: 19 Jul 2019 11:48

Instrument :

MSVOA_N

ClientSampleId :

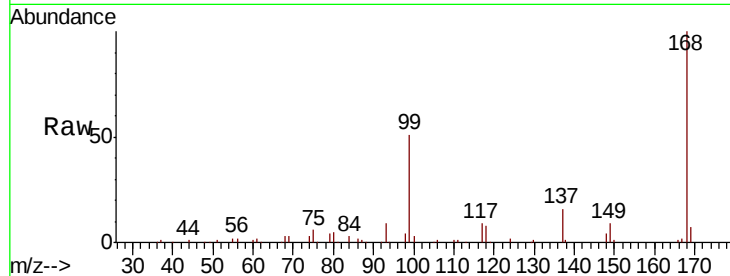
Tot Ion:117 Resp: 21204

Ion Ratio Lower Upper

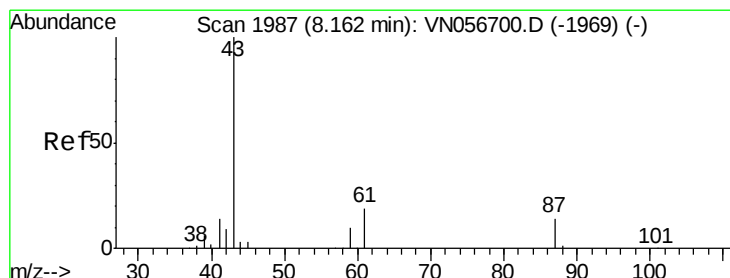
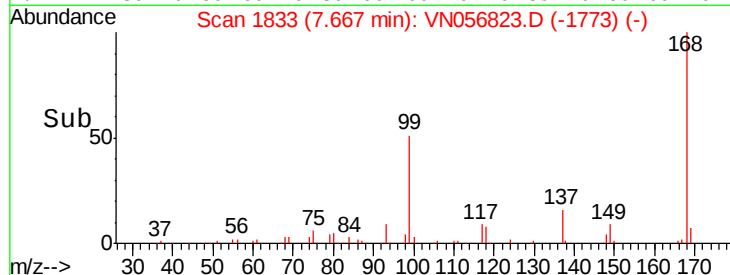
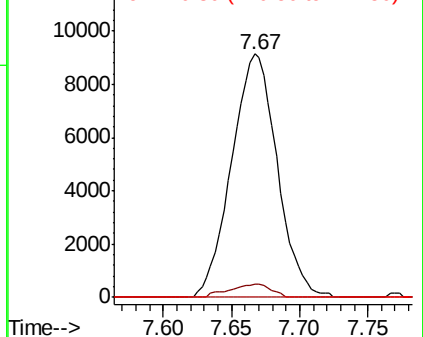
117 100

119 5.2 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: 2.868 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN056823.D

Acq: 19 Jul 2019 11:48

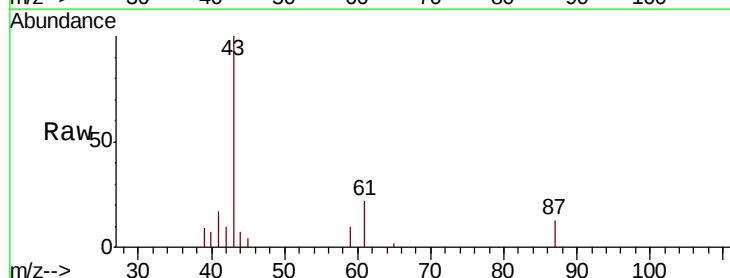
Tgt Ion: 43 Resp: 18251

Ion Ratio Lower Upper

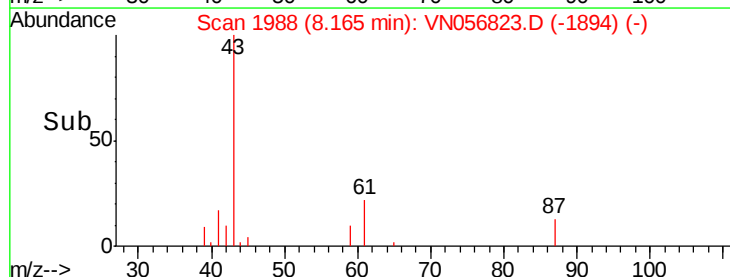
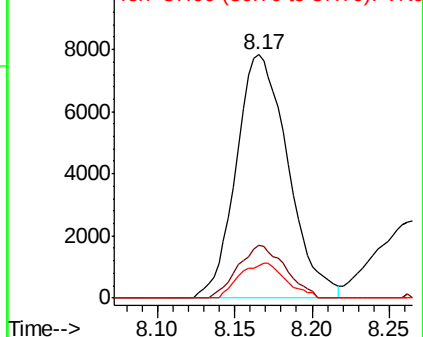
43 100

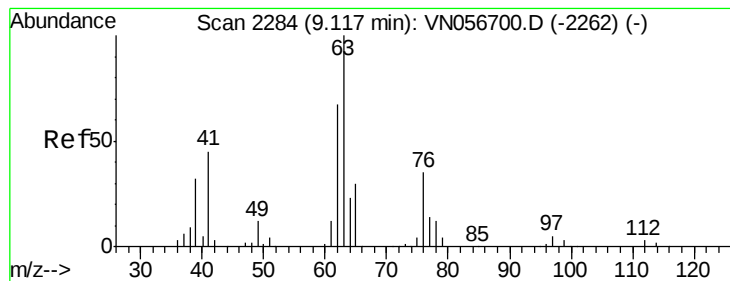
61 19.7 22.3 33.5#

87 12.6 11.1 16.7



Abundance Ion 43.00 (42.70 to 43.70): VN
Ion 61.00 (60.70 to 61.70): VN
Ion 87.00 (86.70 to 87.70): VN





#45

1,2-Dichloropropane

Concen: 0.515 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN056823.D

Acq: 19 Jul 2019 11:48

Instrument :

MSVOA_N

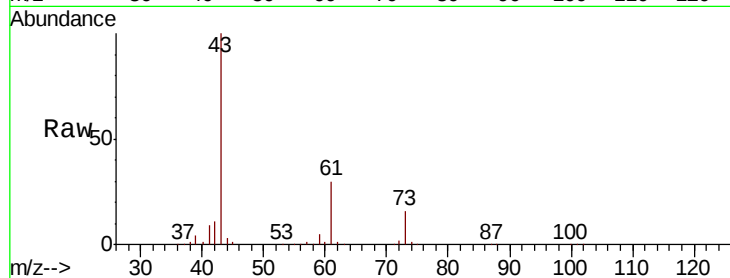
ClientSampleId :

Tot Ion: 63 Resp: 1721

Ion Ratio Lower Upper

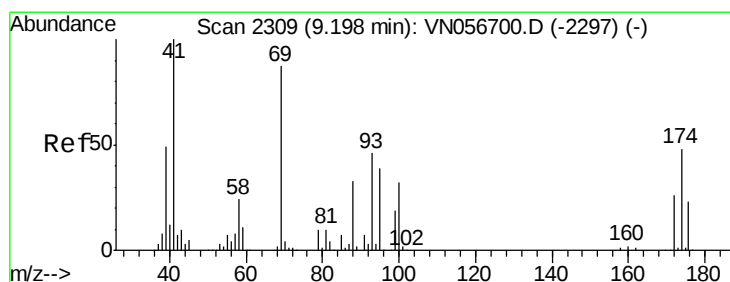
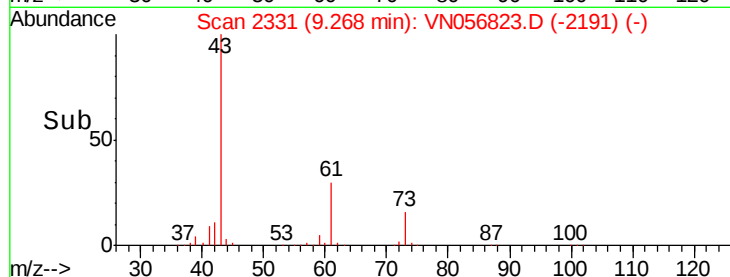
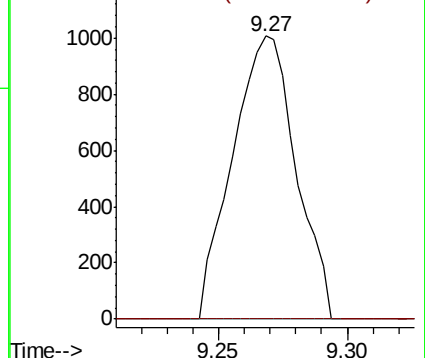
63 100

65 0.0 24.0 36.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 2.843 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN056823.D

Acq: 19 Jul 2019 11:48

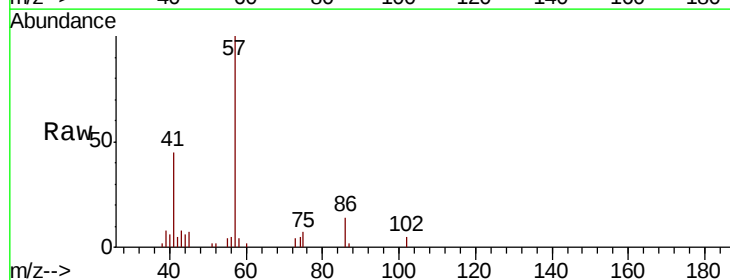
Tgt Ion: 41 Resp: 8751

Ion Ratio Lower Upper

41 100

69 0.0 71.4 107.0#

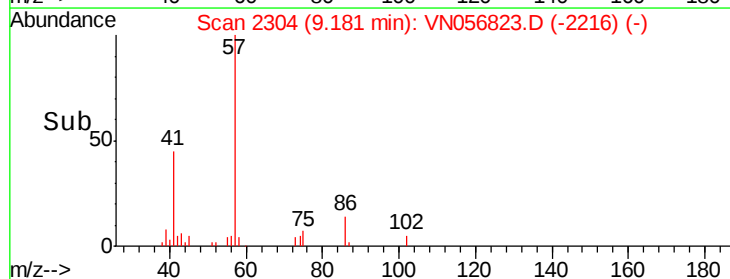
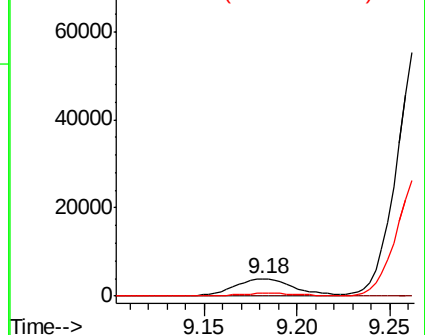
39 0.0 41.2 61.8#

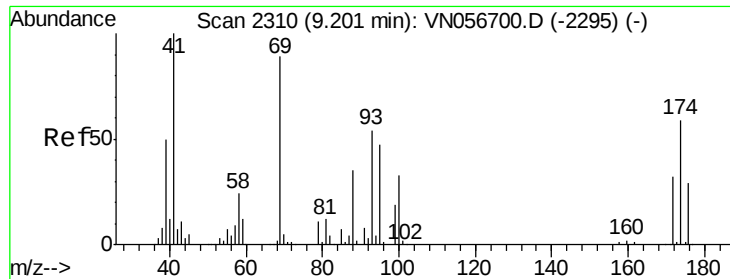


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#49

1,4-Dioxane

Concen: 0.934 ug/l

RT: 9.26 min Scan# 2330

Delta R.T. 0.06 min

Lab File: VN056823.D

Acq: 19 Jul 2019 11:48

Instrument :

MSVOA_N

ClientSampleId :

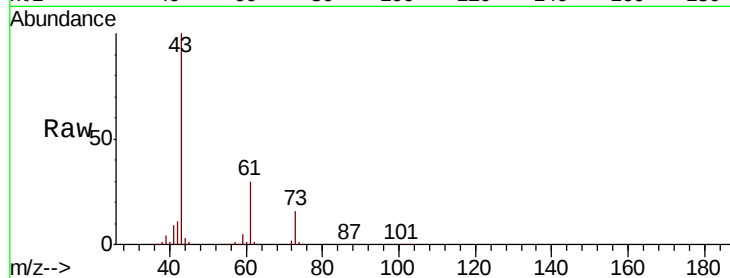
Tot Ion: 88 Resp: 59

Ion Ratio Lower Upper

88 100

43 2216883.1 23.7 35.5#

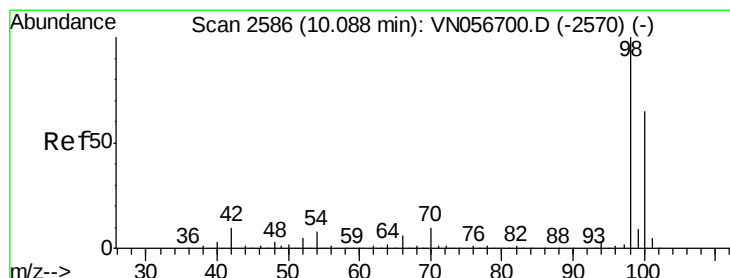
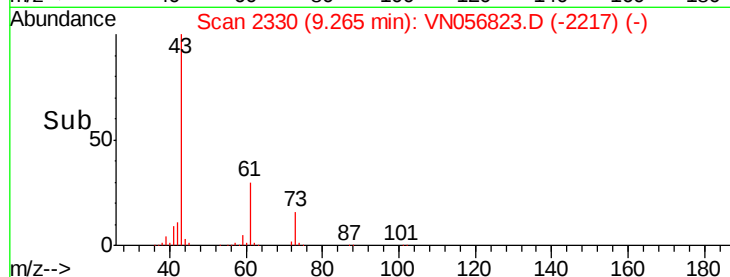
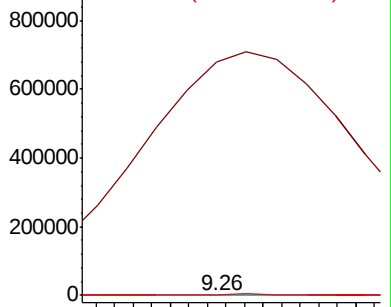
58 9759.3 55.6 83.4#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 53.493 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056823.D

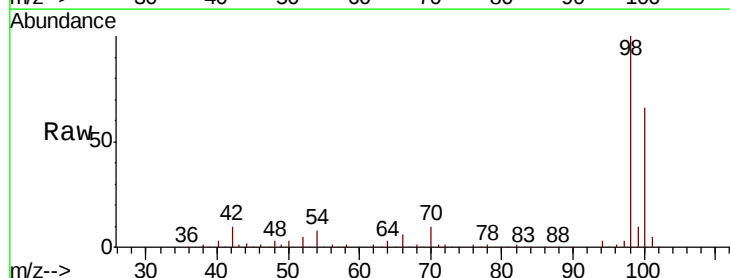
Acq: 19 Jul 2019 11:48

Tgt Ion: 98 Resp: 570709

Ion Ratio Lower Upper

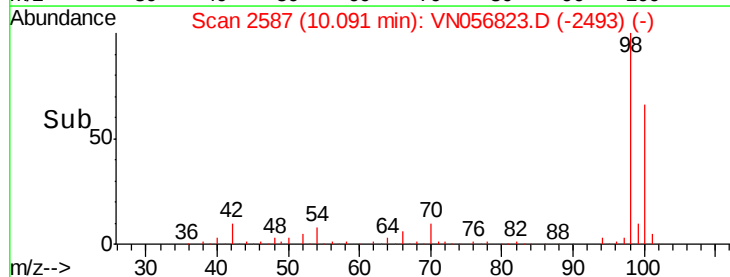
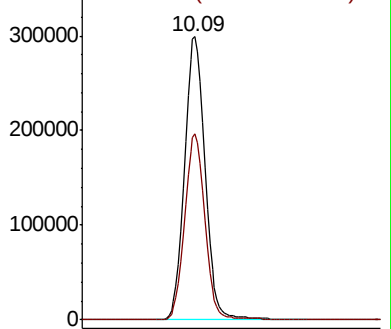
98 100

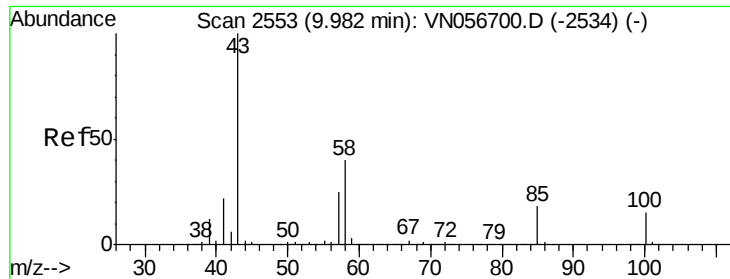
100 65.0 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.974 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN056823.D

Acq: 19 Jul 2019 11:48

Instrument :

MSVOA_N

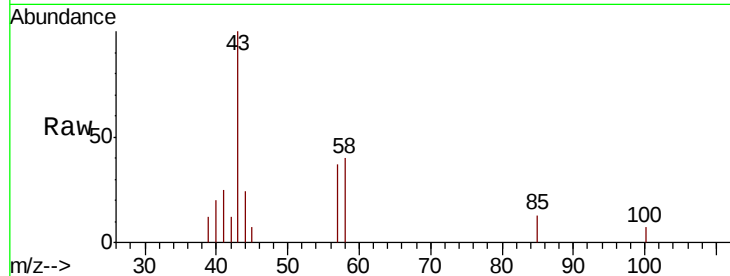
ClientSampled :

Tot Ion: 43 Resp: 4016

Ion Ratio Lower Upper

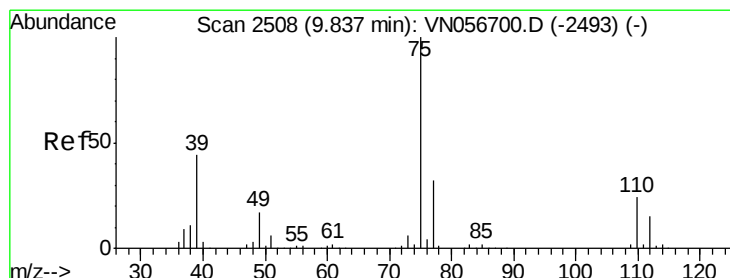
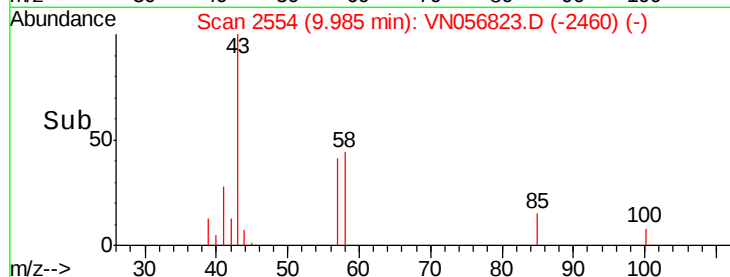
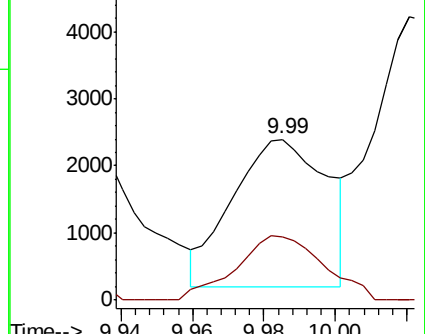
43 100

58 40.3 32.0 48.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 10.201 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN056823.D

Acq: 19 Jul 2019 11:48

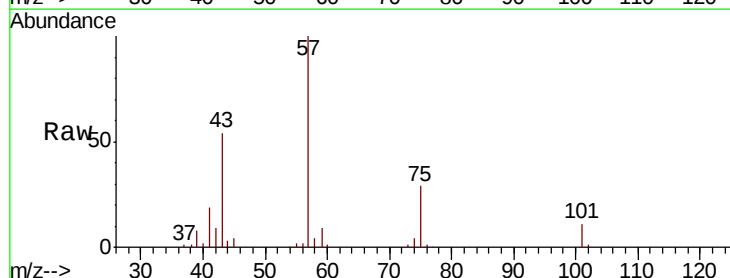
Tgt Ion: 75 Resp: 48639

Ion Ratio Lower Upper

75 100

77 0.6 26.0 39.0#

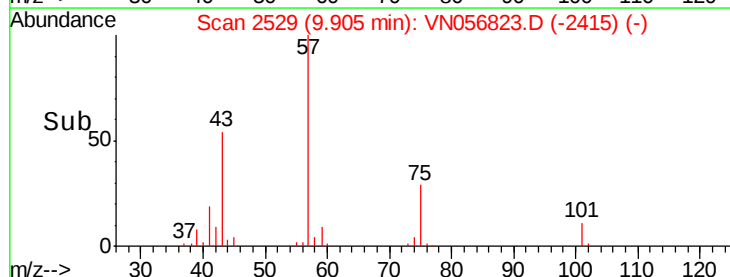
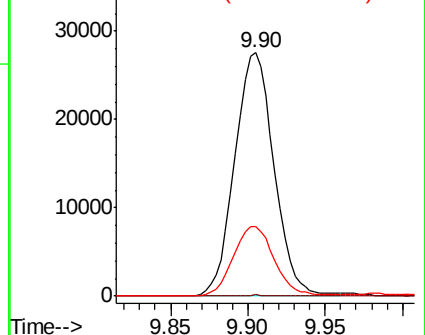
39 28.4 35.1 52.7#

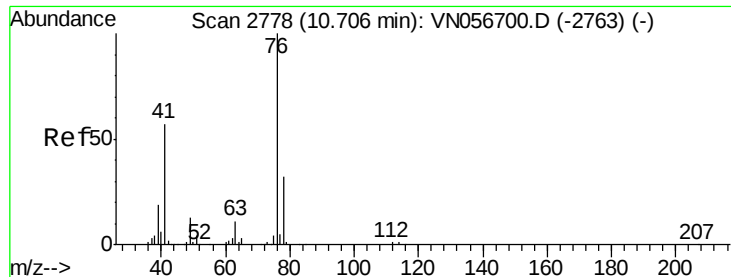


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

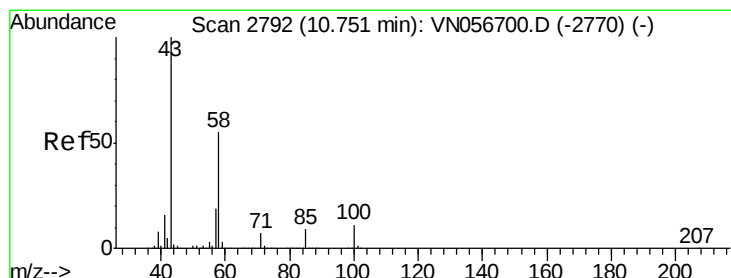
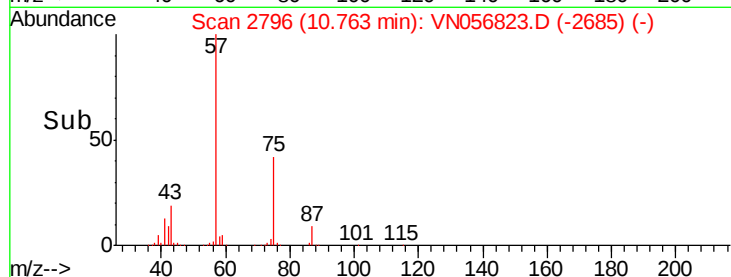
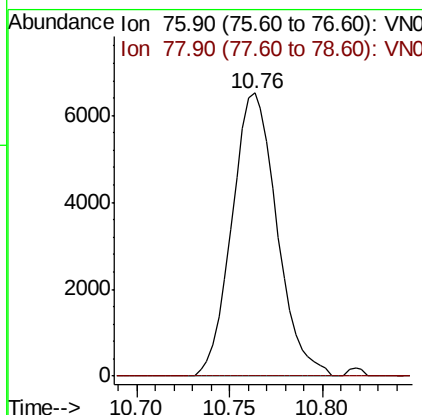
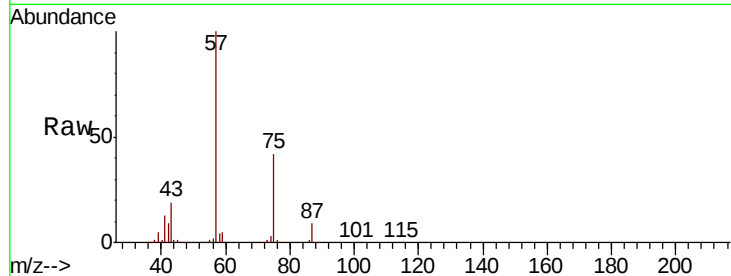




#57
 1,3-Dichloropropane
 Concen: 2.148 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN056823.D
 Acq: 19 Jul 2019 11:48

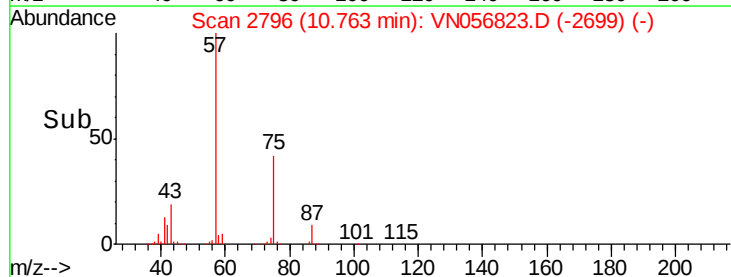
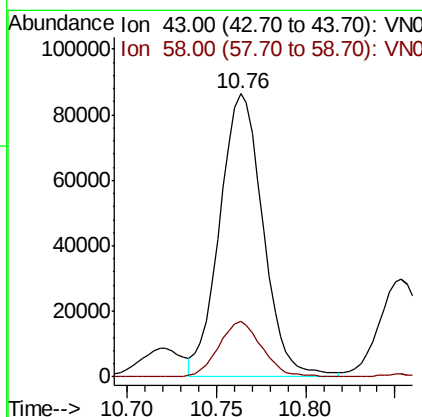
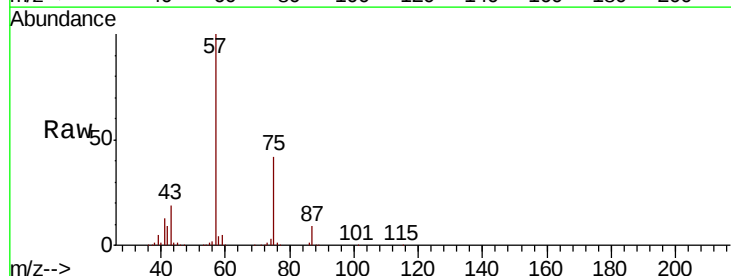
Instrument :
 MSVOA_N
 ClientSampled :

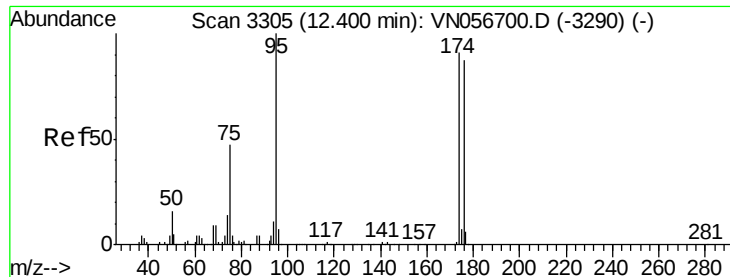
Tot Ion: 76 Resp: 11000
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#



#59
 2-Hexanone
 Concen: 48.930 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN056823.D
 Acq: 19 Jul 2019 11:48

Tgt Ion: 43 Resp: 144721
 Ion Ratio Lower Upper
 43 100
 58 19.9 27.9 83.6#

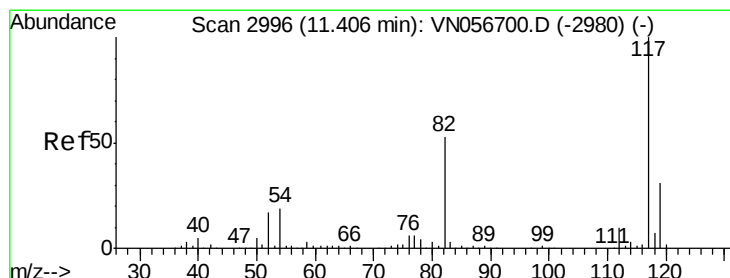
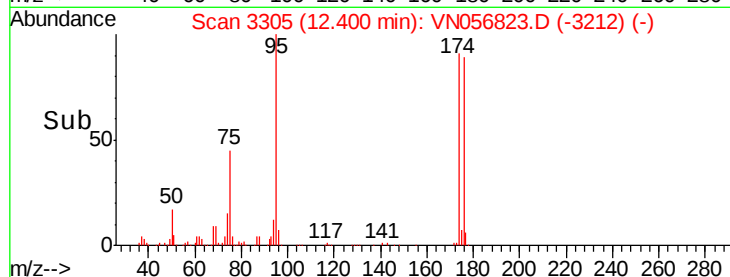
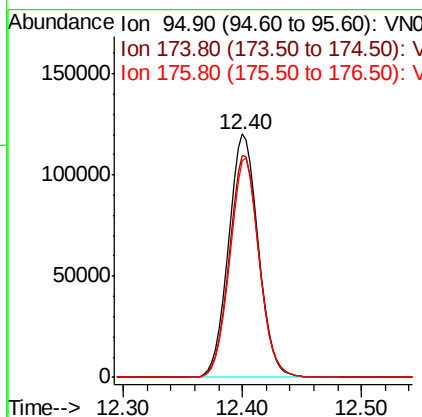
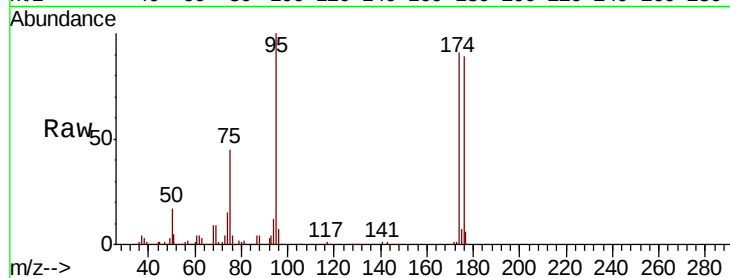




#62
4-Bromofluorobenzene
Concen: 57.927 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN056823.D
Acq: 19 Jul 2019 11:48

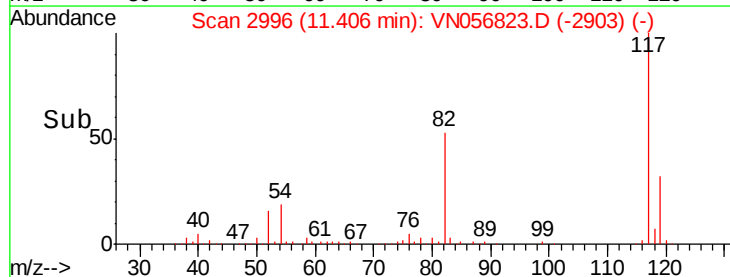
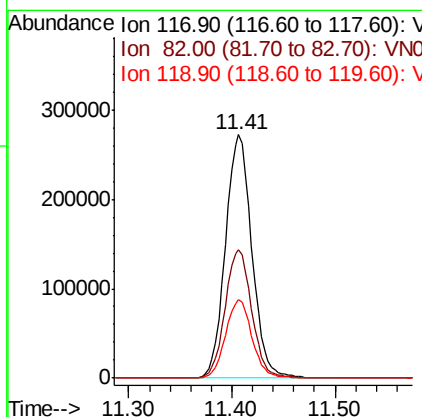
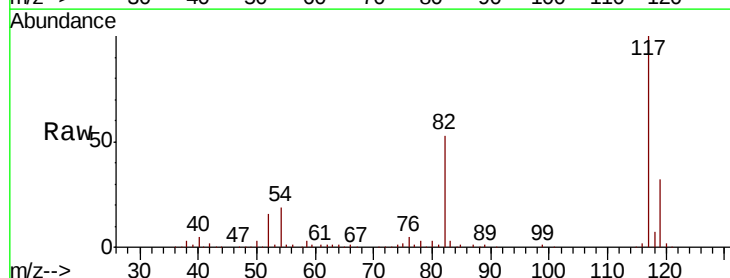
Instrument :
MSVOA_N
ClientSampleId :

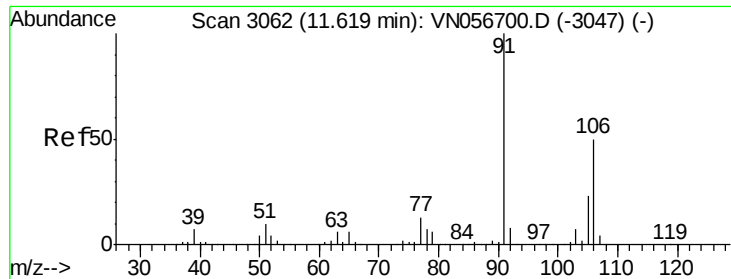
Tot Ion: 95 Resp: 208416
Ion Ratio Lower Upper
95 100
174 91.2 0.0 180.0
176 88.7 0.0 173.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056823.D
Acq: 19 Jul 2019 11:48

Tgt Ion: 117 Resp: 486888
Ion Ratio Lower Upper
117 100
82 52.7 42.2 63.2
119 32.1 25.2 37.8

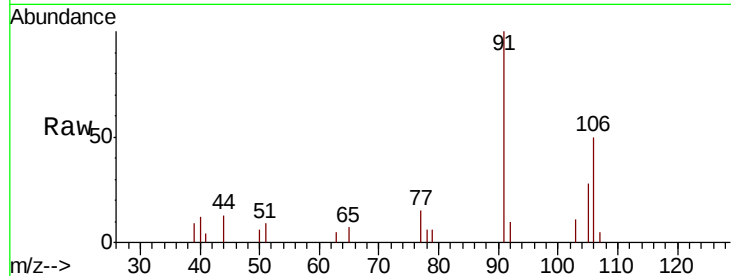




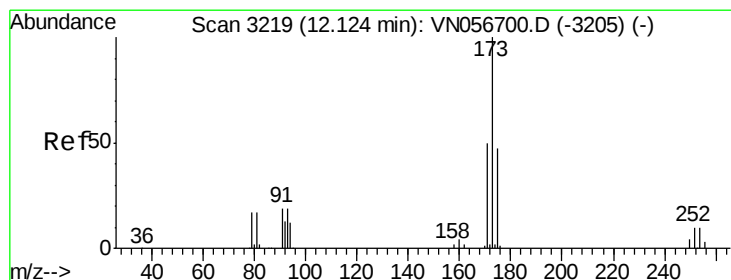
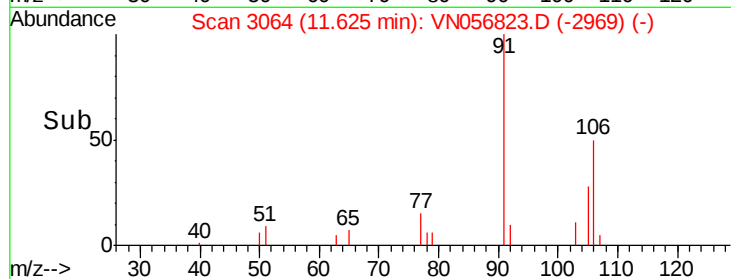
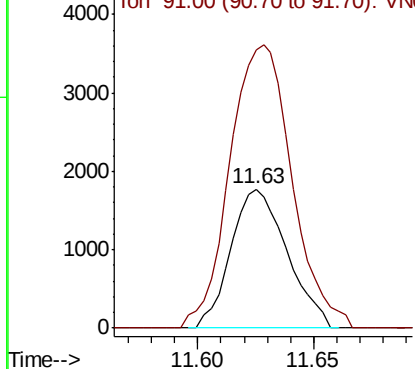
#68
m/p-Xvlenes
Concen: 0.455 ug/l
RT: 11.63 min Scan# 3064
Delta R.T. 0.01 min
Lab File: VN056823.D
Acq: 19 Jul 2019 11:48

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:106 Resp: 2973
Ion Ratio Lower Upper
106 100
91 226.1 160.5 240.7

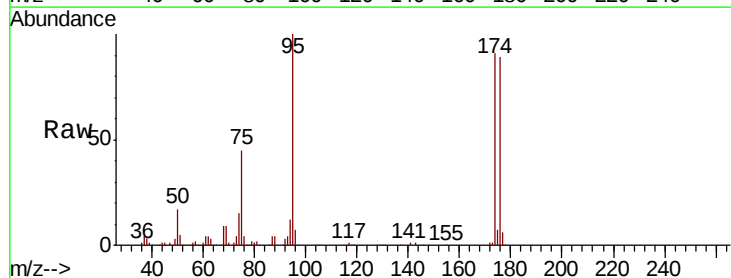


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

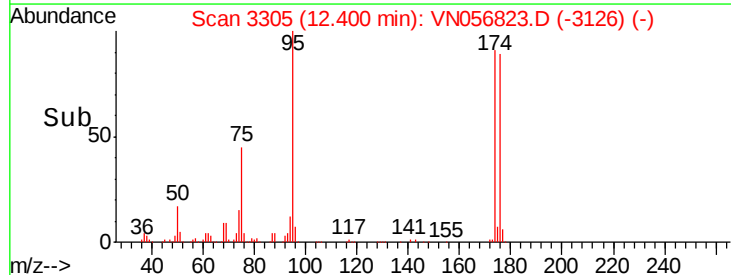
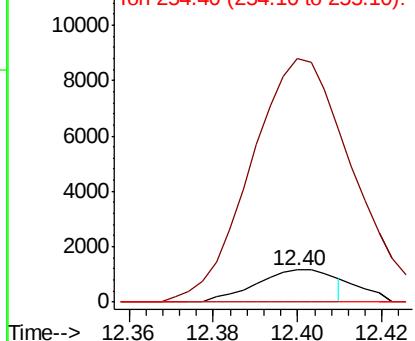


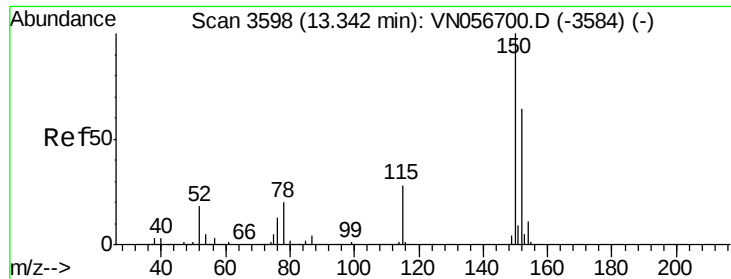
#71
Bromoform
Concen: 0.537 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.28 min
Lab File: VN056823.D
Acq: 19 Jul 2019 11:48

Tgt Ion:173 Resp: 1497
Ion Ratio Lower Upper
173 100
175 796.9 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



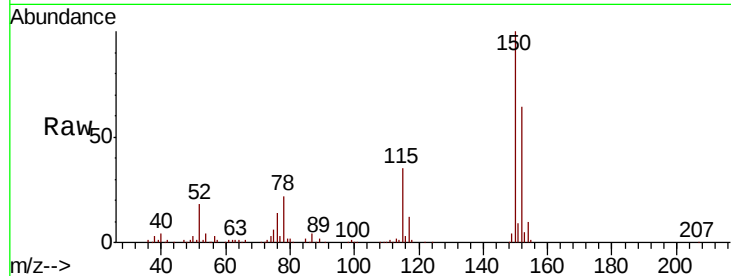


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN056823.D
Acq: 19 Jul 2019 11:48

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.3	28.2	84.7
150	156.3	0.0	345.8

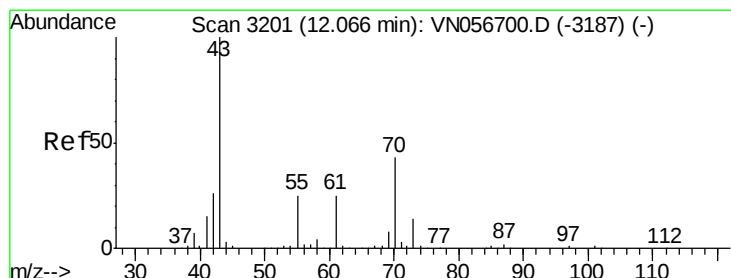
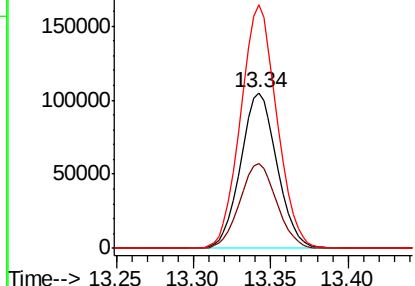
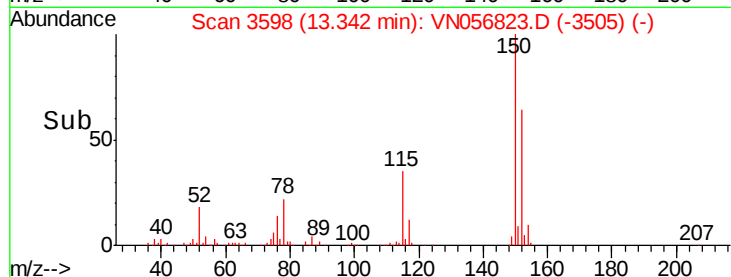


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

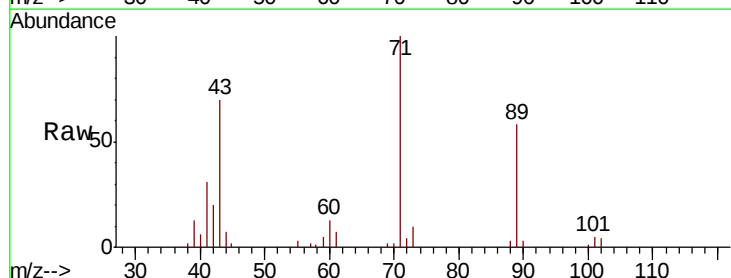
Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate
Concen: 2.503 ug/l
RT: 11.88 min Scan# 3142
Delta R.T. -0.19 min
Lab File: VN056823.D
Acq: 19 Jul 2019 11:48

Tgt Ion	Ratio	Lower	Upper
43	100		
70	2.0	34.5	51.7#
55	3.7	20.2	30.2#
61	10.0	19.9	29.9#



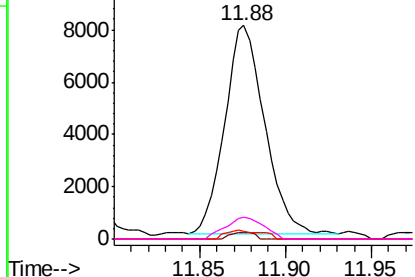
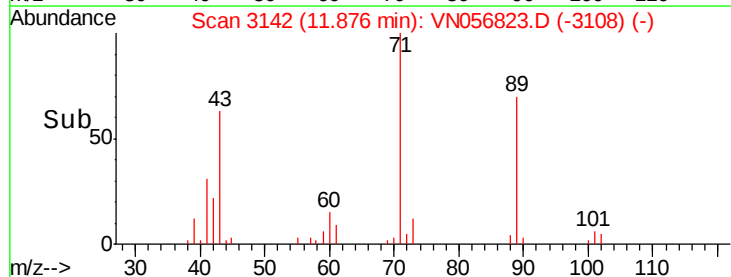
Abundance

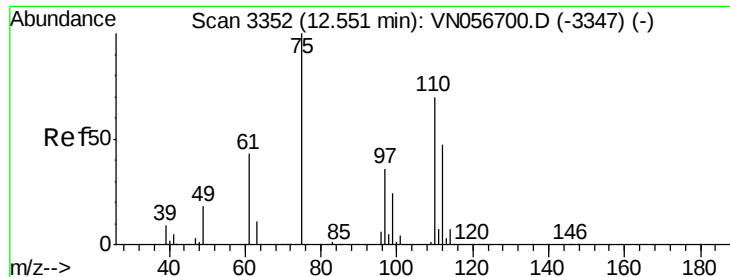
Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 25.585 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056823.D

Acq: 19 Jul 2019 11:48

Instrument :

MSVOA_N

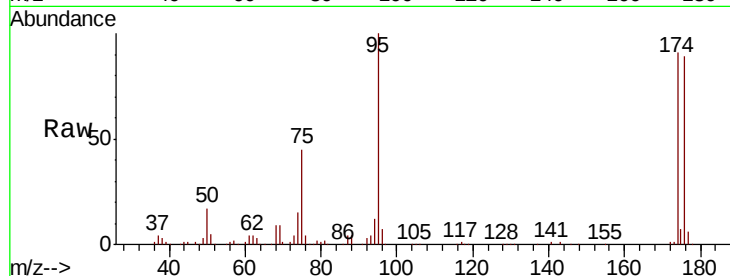
ClientSampled :

Tot Ion: 75 Resp: 96072

Ion Ratio Lower Upper

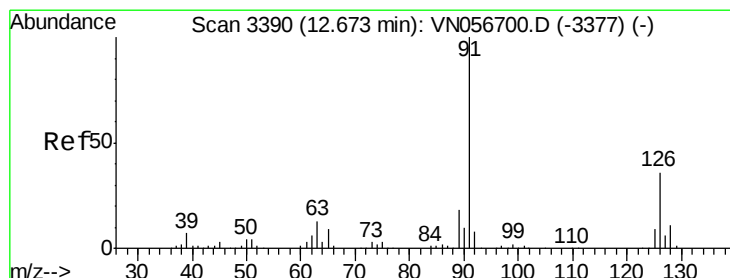
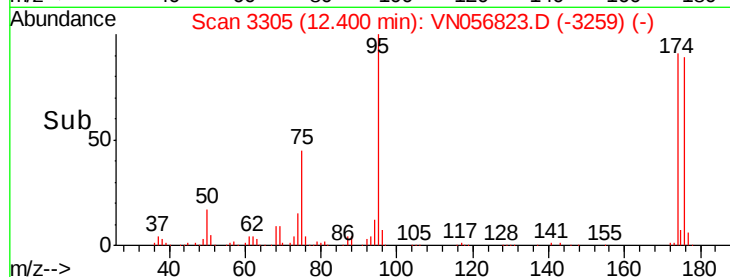
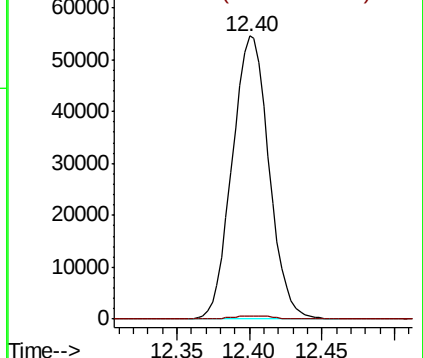
75 100

77 0.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.59 min Scan# 3364

Delta R.T. -0.08 min

Lab File: VN056823.D

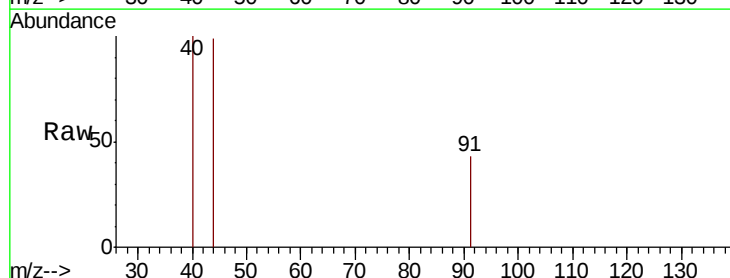
Acq: 19 Jul 2019 11:48

Tgt Ion: 91 Resp: 61

Ion Ratio Lower Upper

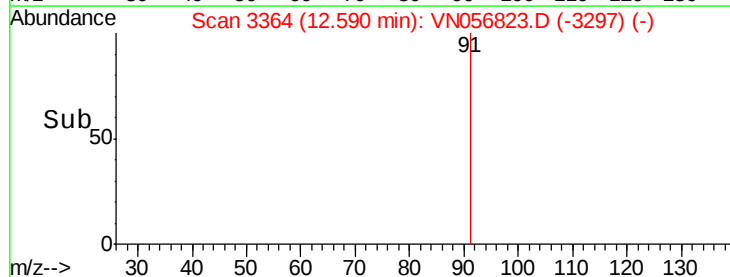
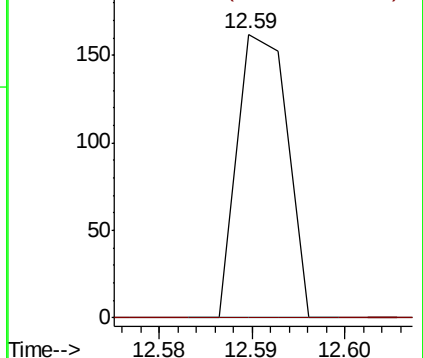
91 100

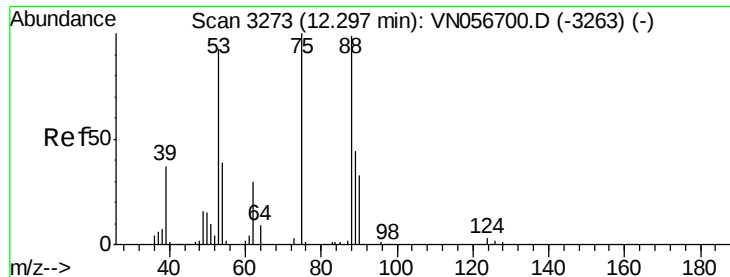
126 0.0 17.9 53.7#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 79.014 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056823.D

Acq: 19 Jul 2019 11:48

Instrument :

MSVOA_N

ClientSampleId :

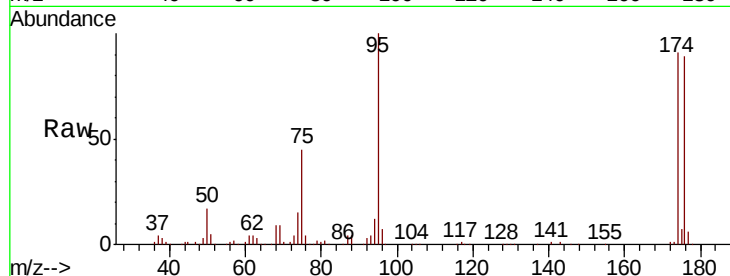
Tot Ion: 75 Resp: 96072

Ion Ratio Lower Upper

75 100

53 0.0 73.7 110.5#

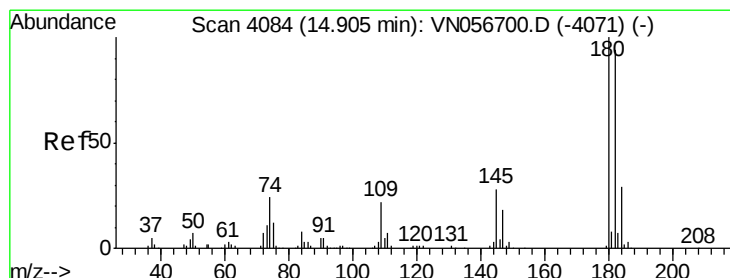
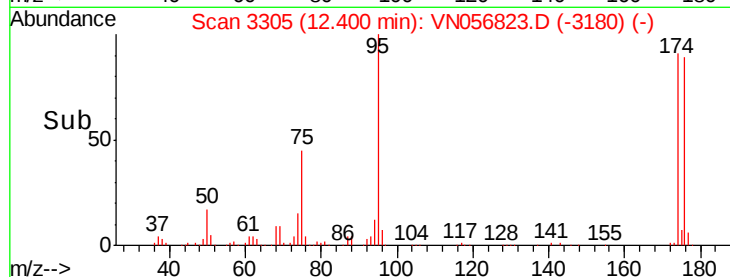
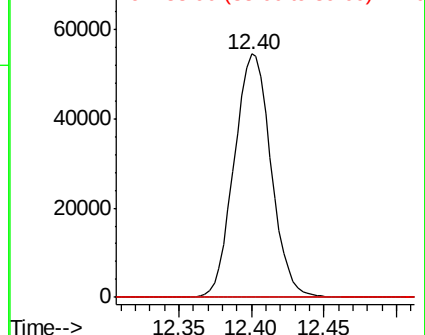
89 0.0 36.2 54.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#93

1,2,4-Trichlorobenzene

Concen: 3.721 ug/l

RT: 14.92 min Scan# 4089

Delta R.T. 0.02 min

Lab File: VN056823.D

Acq: 19 Jul 2019 11:48

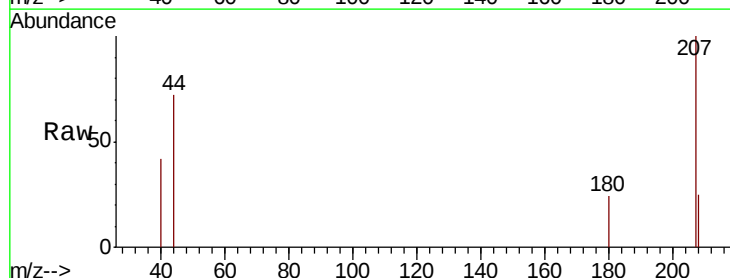
Tgt Ion: 180 Resp: 106

Ion Ratio Lower Upper

180 100

182 57.5 47.2 141.6

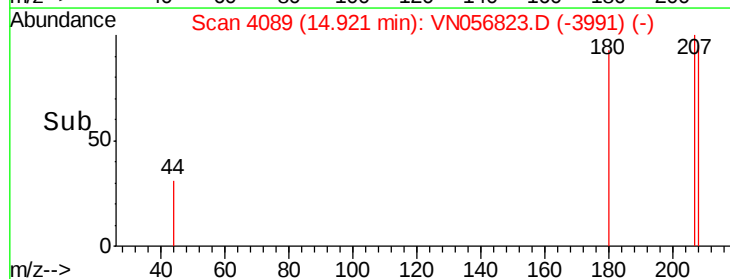
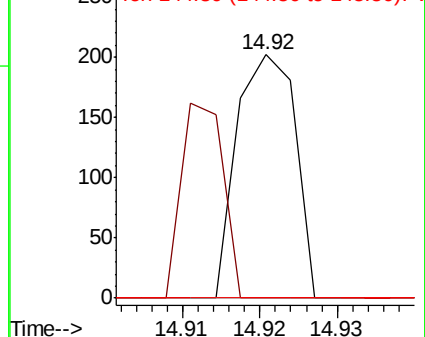
145 0.0 14.2 42.8#

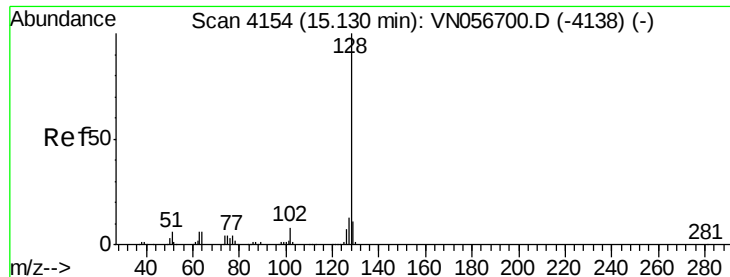


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 4.578 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056823.D

Acq: 19 Jul 2019 11:48

Instrument :

MSVOA_N

ClientSampleId :

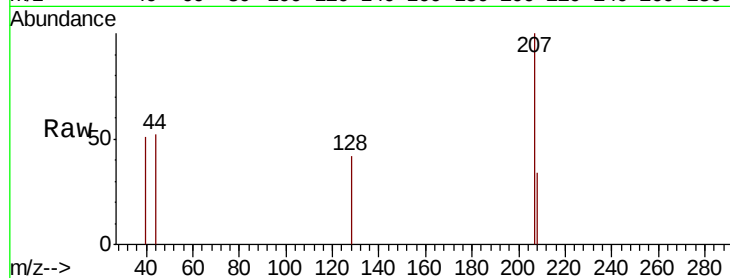
Tot Ion:128 Resp: 526

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

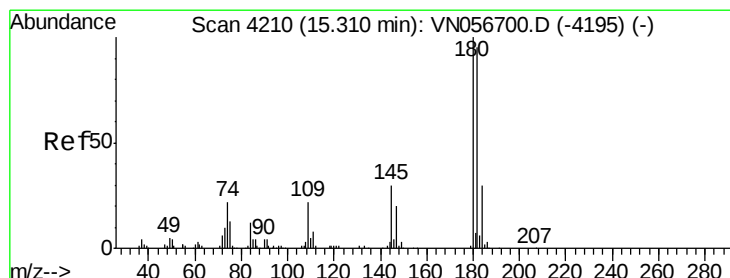
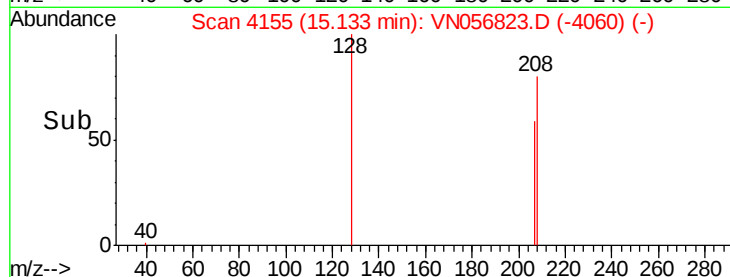
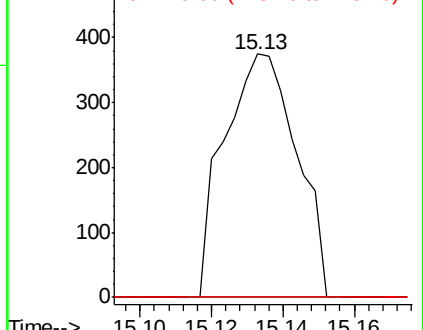
129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 3.437 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.01 min

Lab File: VN056823.D

Acq: 19 Jul 2019 11:48

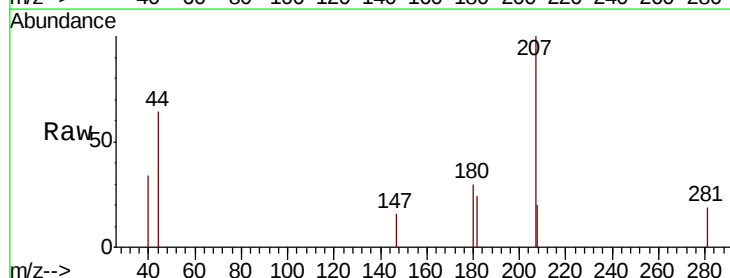
Tgt Ion:180 Resp: 407

Ion Ratio Lower Upper

180 100

182 55.5 47.1 141.3

145 0.0 15.0 45.1#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

