

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091519\
 Data File : VN058094.D
 Acq On : 15 Sep 2019 16:06
 Operator : JC/SP
 Sample : K4695-28
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 16 03:41:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	310329	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	539735	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	502903	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	263102	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	382103	60.79	ug/l	0.00
Spiked Amount			Recovery	=	121.58%	
35) Dibromofluoromethane	7.58	113	261686	52.53	ug/l	0.00
Spiked Amount			Recovery	=	105.06%	
50) Toluene-d8	10.08	98	987361	51.05	ug/l	0.00
Spiked Amount			Recovery	=	102.10%	
62) 4-Bromofluorobenzene	12.41	95	340353	46.18	ug/l	0.00
Spiked Amount			Recovery	=	92.36%	

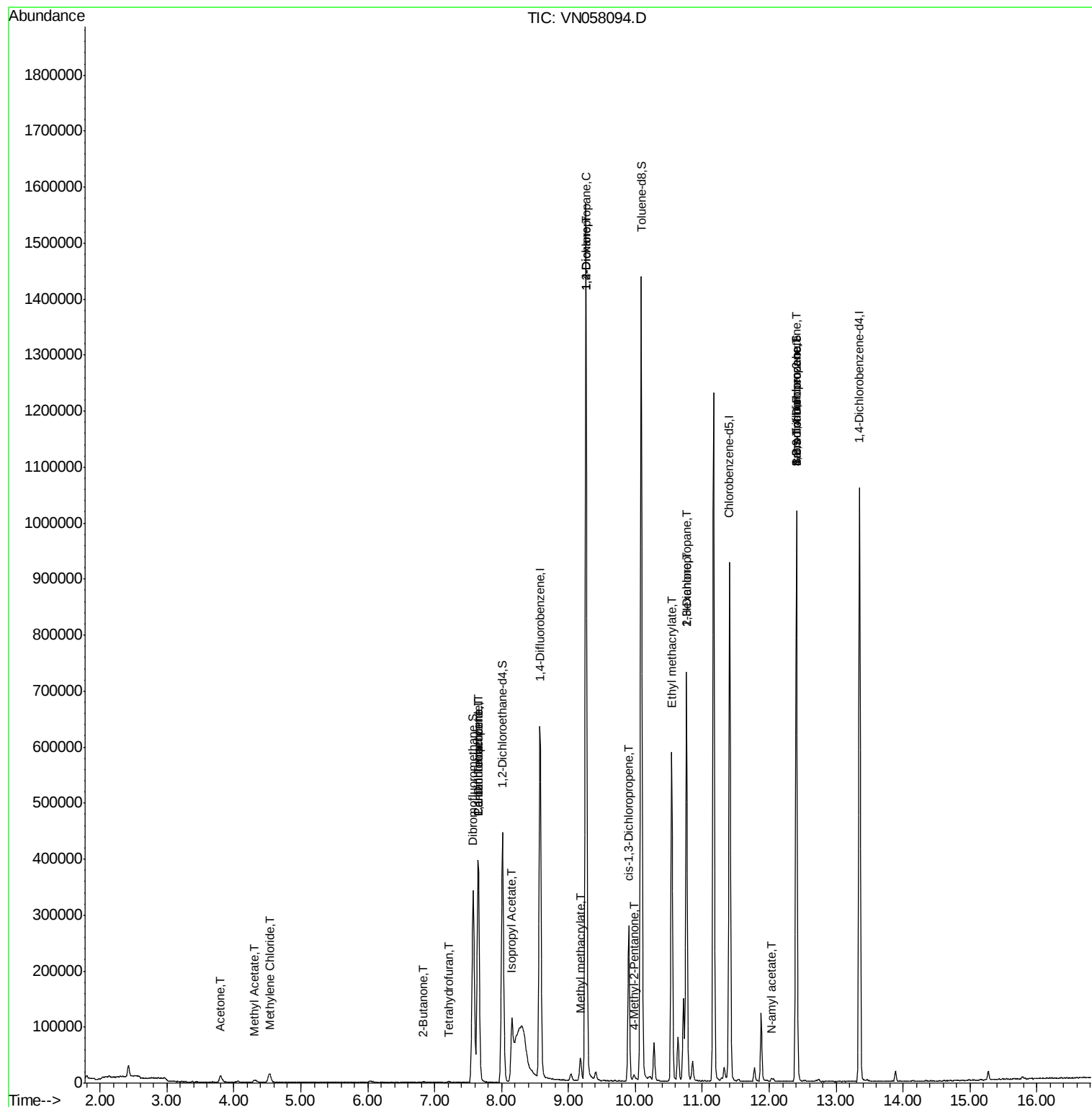
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	330	Below Cal	#	68
16) Acetone	3.80	43	18479	8.968	ug/l #	87
18) Methyl Acetate	4.31	43	6254	1.138	ug/l	98
20) Methylene Chloride	4.53	84	10817	1.565	ug/l	97
25) 2-Butanone	6.83	43	2470	0.828	ug/l	97
29) Tetrahydrofuran	7.21	42	1161	0.632	ug/l #	51
31) Cyclohexane	7.65	56	8099	Below Cal	#	29
36) 1,1-Dichloropropene	7.65	75	26344	4.209	ug/l #	51
38) Carbon Tetrachloride	7.65	117	32075	5.613	ug/l #	15
43) Isopropyl Acetate	8.16	43	149567	13.752	ug/l #	81
45) 1,2-Dichloropropane	9.26	63	1926	0.351	ug/l #	44
48) Methyl methacrylate	9.17	41	7427	1.346	ug/l #	13
49) 1,4-Dioxane	9.26	88	114	1.222	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	8951	1.391	ug/l	93
54) cis-1,3-Dichloropropene	9.90	75	47449	6.168	ug/l #	65
56) Ethyl methacrylate	10.54	69	2079	0.275	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	7154	0.826	ug/l #	43
59) 2-Hexanone	10.76	43	111897	23.196	ug/l #	52
71) Bromoform	12.40	173	1664	0.584	ug/l #	1
74) N-amyl acetate	12.03	43	6226	0.701	ug/l #	47
76) 1,2,3-Trichloropropane	12.41	75	186591	31.350	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	186591	110.322	ug/l #	6
95) Naphthalene	15.14	128	880	Below Cal	#	69

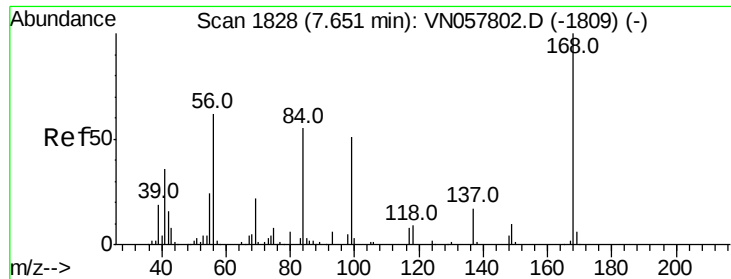
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Sep 10 03:02:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN058094.D

Acq: 15 Sep 2019 16:06

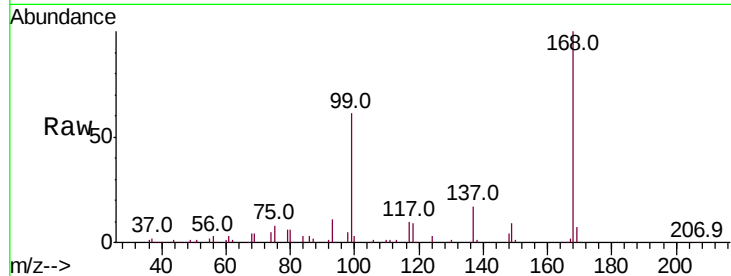
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 310329

Ion Ratio Lower Upper

168 100

99 60.5 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

150000

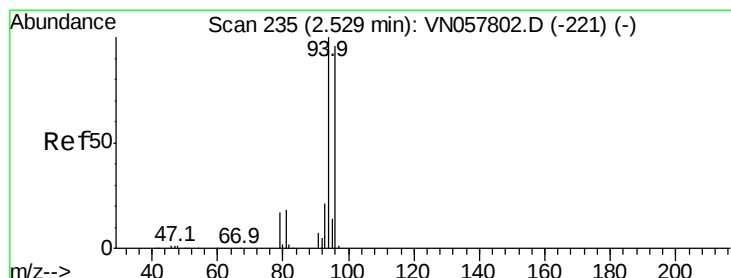
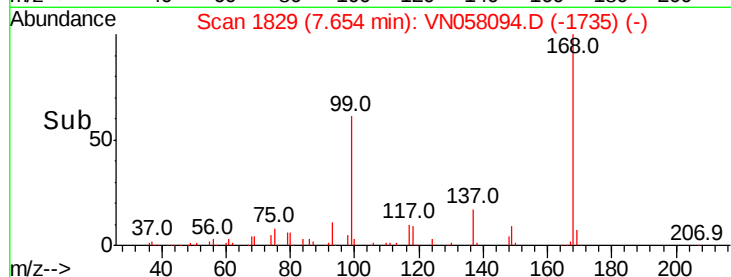
100000

50000

0

7.60 7.70

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 247

Delta R.T. 0.04 min

Lab File: VN058094.D

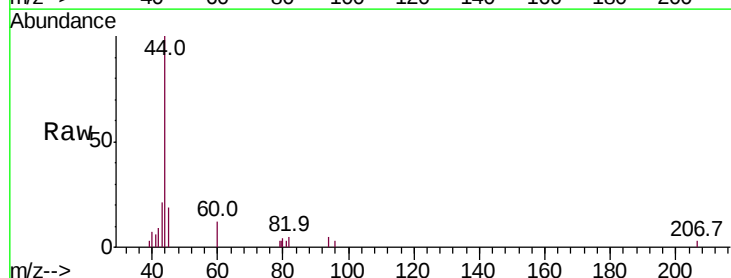
Acq: 15 Sep 2019 16:06

Tgt Ion: 94 Resp: 330

Ion Ratio Lower Upper

94 100

96 64.9 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.57

300

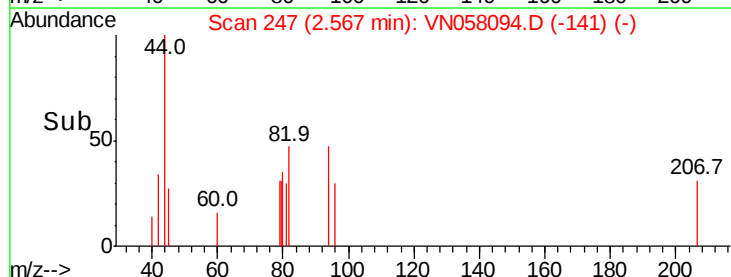
200

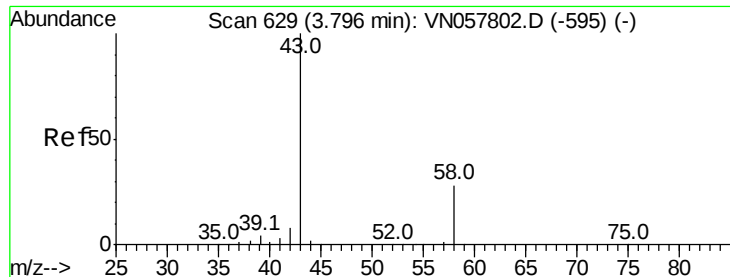
100

0

2.54 2.56 2.58

Time-->





#16

Acetone

Concen: 8.968 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN058094.D

Acq: 15 Sep 2019 16:06

Instrument :

MSVOA_N

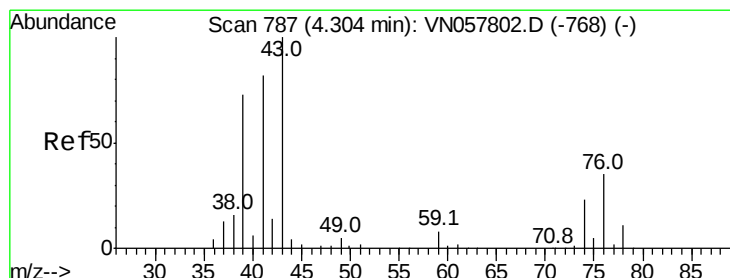
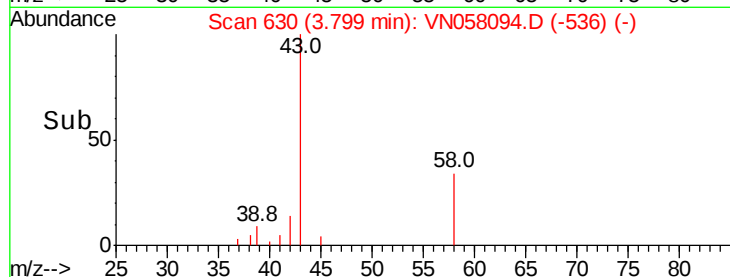
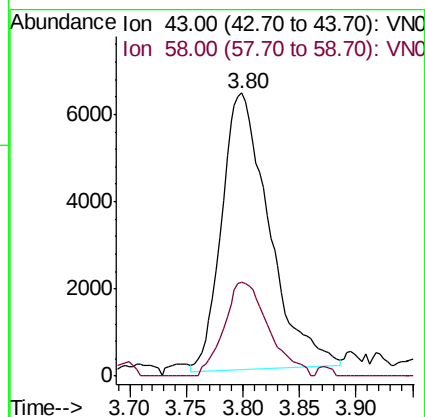
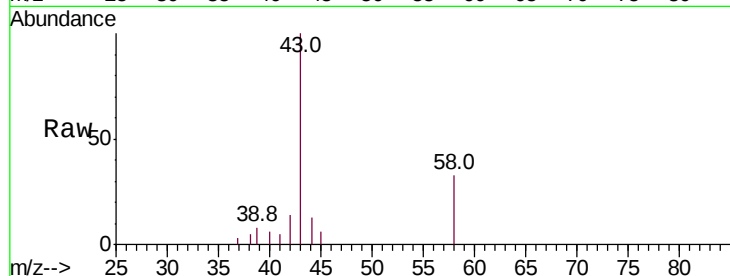
ClientSampled :

Tot Ion: 43 Resp: 18479

Ion Ratio Lower Upper

43 100

58 34.5 22.2 33.2#



#18

Methyl Acetate

Concen: 1.138 ug/l

RT: 4.31 min Scan# 788

Delta R.T. 0.00 min

Lab File: VN058094.D

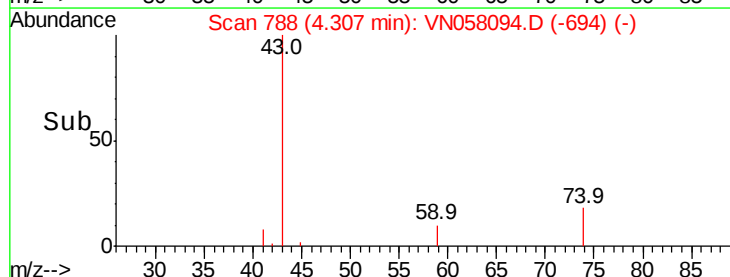
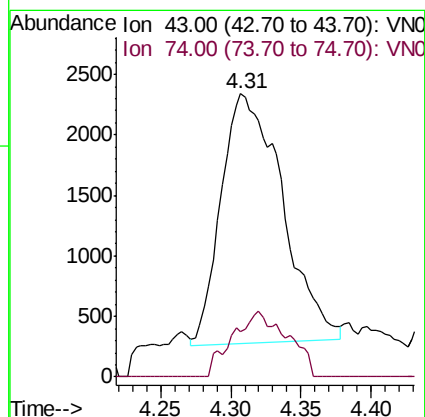
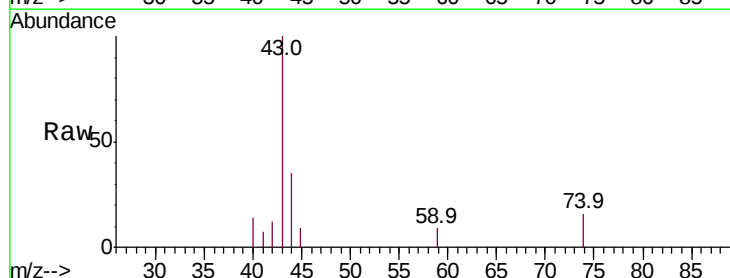
Acq: 15 Sep 2019 16:06

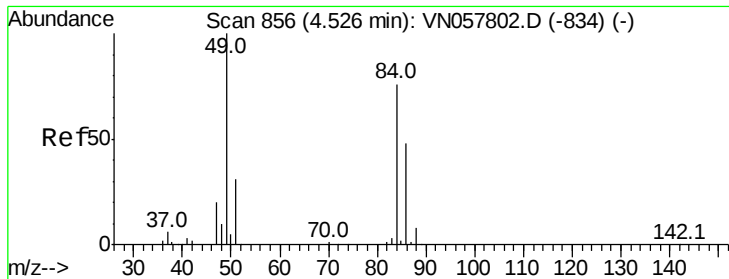
Tgt Ion: 43 Resp: 6254

Ion Ratio Lower Upper

43 100

74 23.5 17.9 26.9

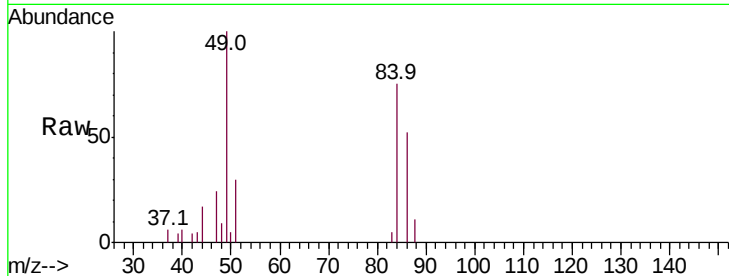




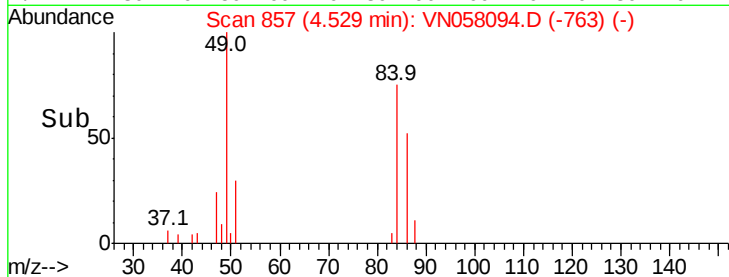
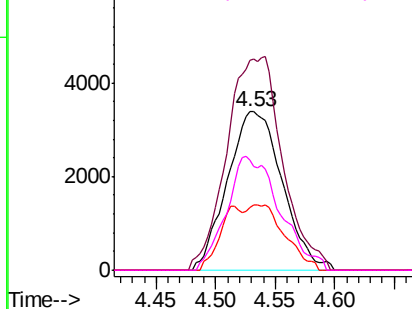
#20
Methylene Chloride
Concen: 1.565 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN058094.D
Acq: 15 Sep 2019 16:06

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 84 Resp: 10817
Ion Ratio Lower Upper
84 100
49 132.6 104.8 157.2
51 39.7 33.0 49.4
86 69.4 50.5 75.7

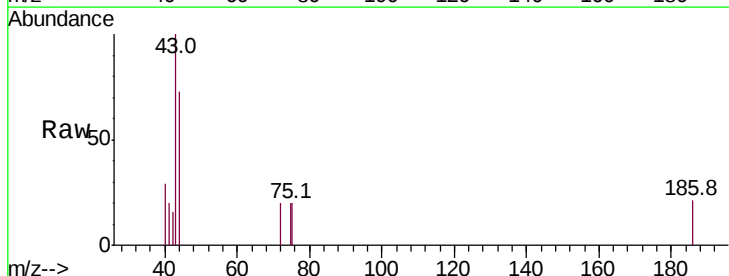
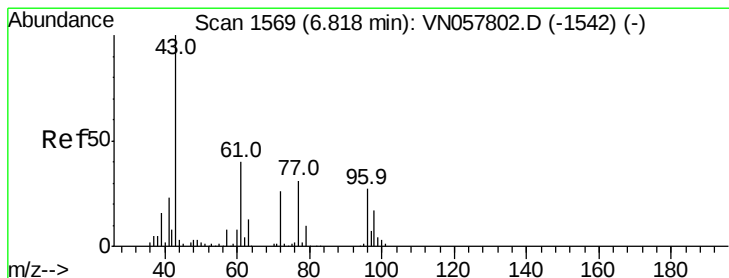


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

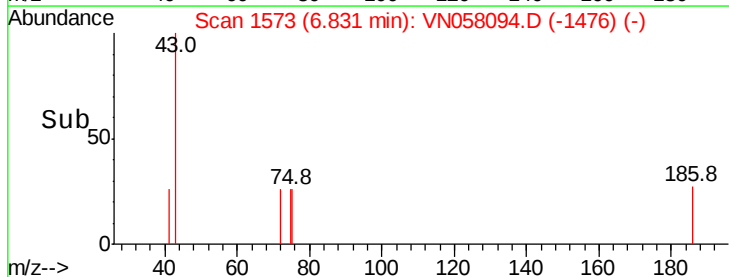
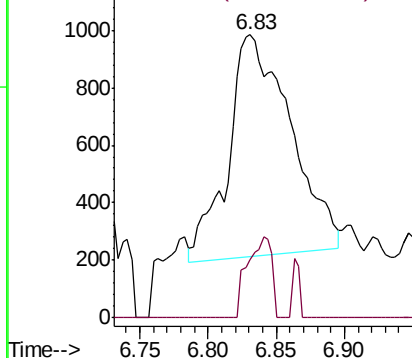


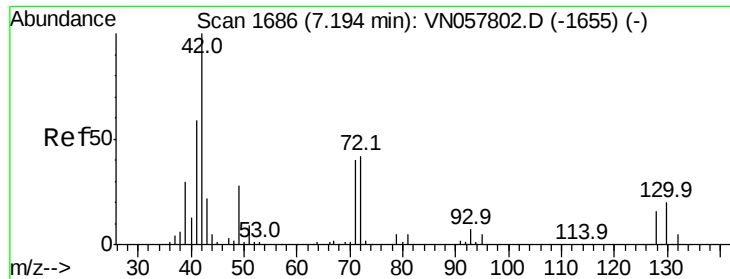
#25
2-Butanone
Concen: 0.828 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.01 min
Lab File: VN058094.D
Acq: 15 Sep 2019 16:06

Tgt Ion: 43 Resp: 2470
Ion Ratio Lower Upper
43 100
72 27.0 20.6 30.8



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.632 ug/l

RT: 7.21 min Scan# 1690

Delta R.T. 0.01 min

Lab File: VN058094.D

Acq: 15 Sep 2019 16:06

Instrument :

MSVOA_N

ClientSampleId :

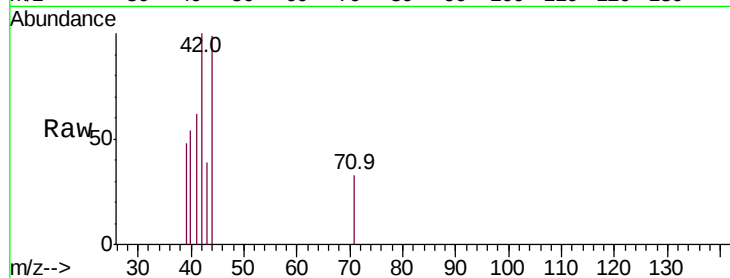
Tot Ion: 42 Resp: 1161

Ion Ratio Lower Upper

42 100

72 5.5 33.7 50.5#

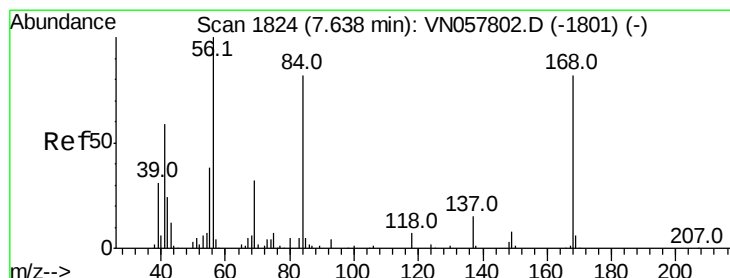
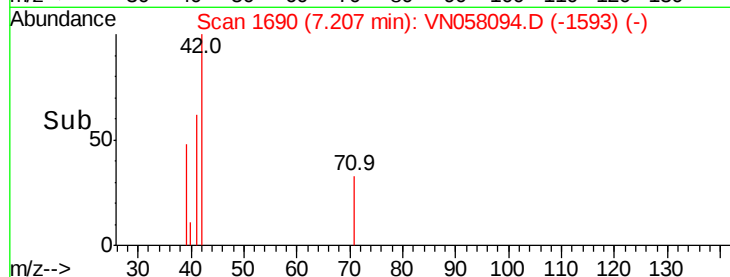
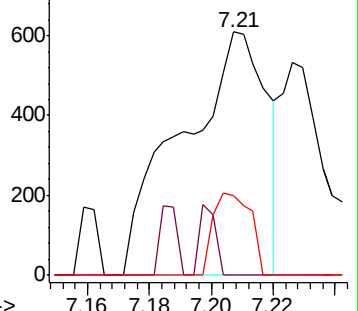
71 14.8 31.9 47.9#



Abundance Ion 42.00 (41.70 to 42.70): VN057802.D (-1655) (-)

Ion 72.00 (71.70 to 72.70): VN057802.D (-1655) (-)

Ion 71.00 (70.70 to 71.70): VN057802.D (-1655) (-)



#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1829

Delta R.T. 0.02 min

Lab File: VN058094.D

Acq: 15 Sep 2019 16:06

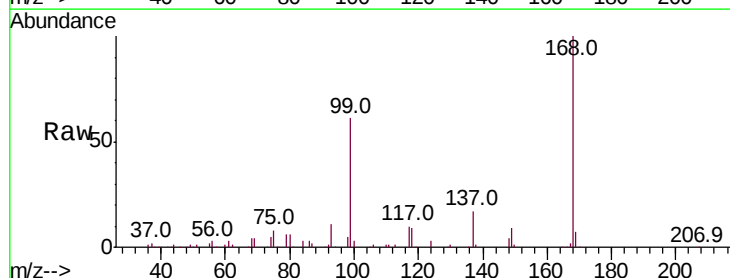
Tgt Ion: 56 Resp: 8099

Ion Ratio Lower Upper

56 100

69 134.6 25.9 38.9#

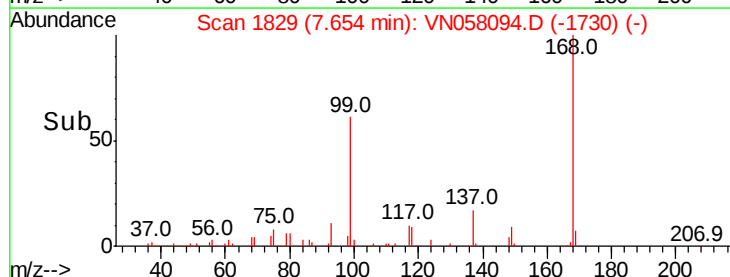
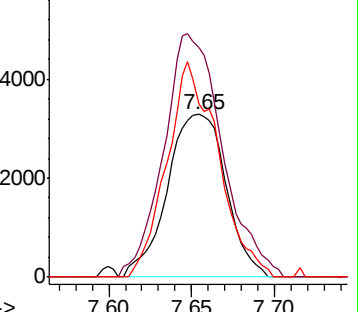
84 106.4 65.6 98.4#

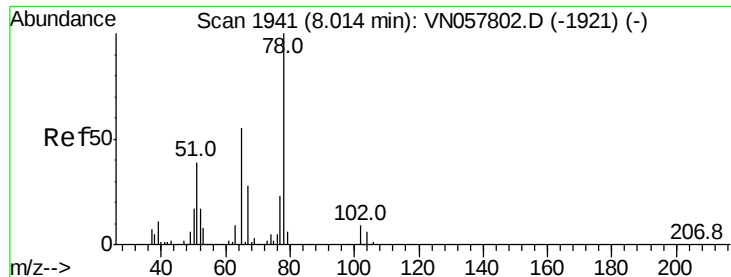


Abundance Ion 56.00 (55.70 to 56.70): VN057802.D (-1801) (-)

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

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





#33

1,2-Dichloroethane-d4

Concen: 60.792 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

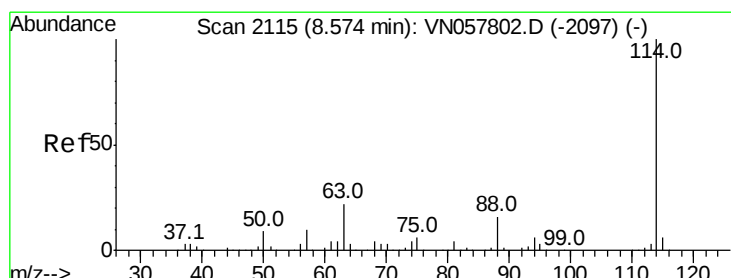
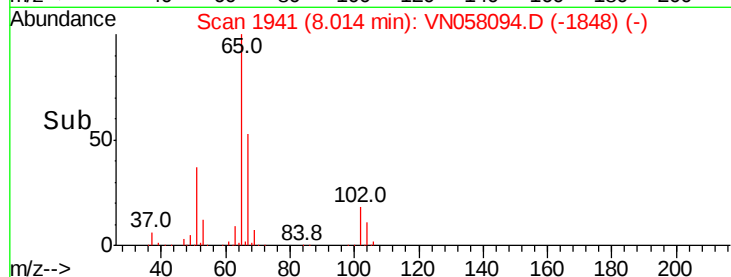
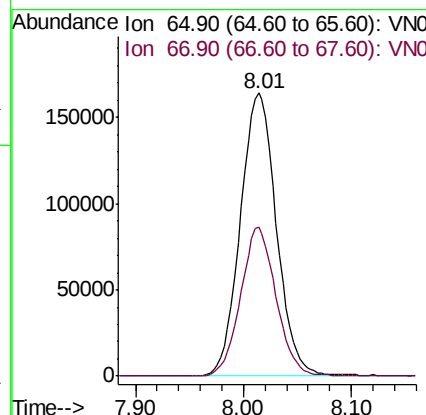
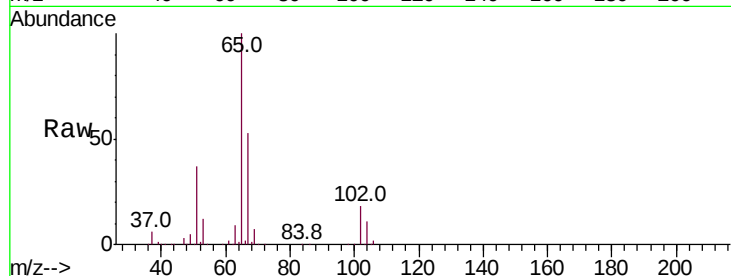
Lab File: VN058094.D

Acq: 15 Sep 2019 16:06

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 65 Resp: 382103

Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

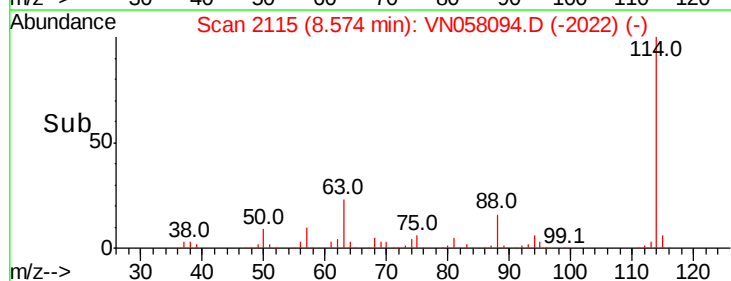
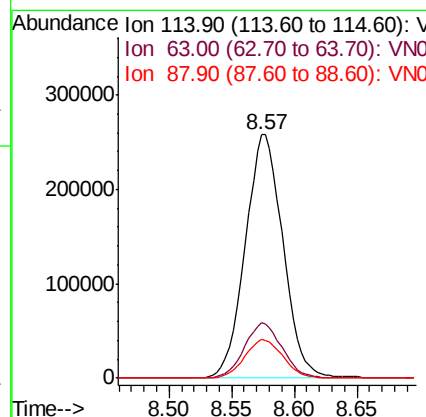
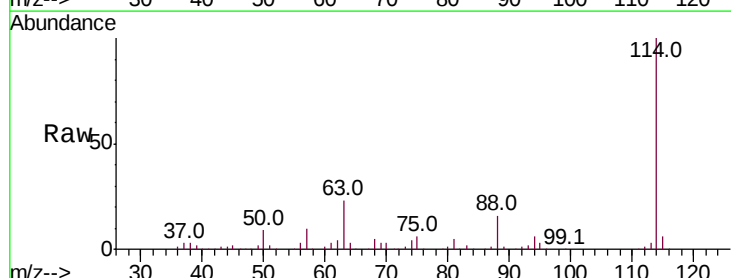
Delta R.T. 0.00 min

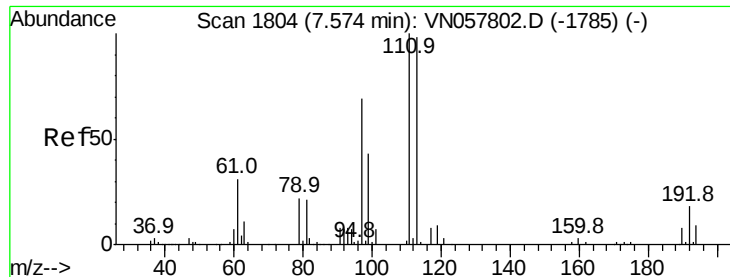
Lab File: VN058094.D

Acq: 15 Sep 2019 16:06

Tgt Ion: 114 Resp: 539735

Ion	Ratio	Lower	Upper
114	100		
63	22.6	0.0	44.0
88	15.8	0.0	31.4

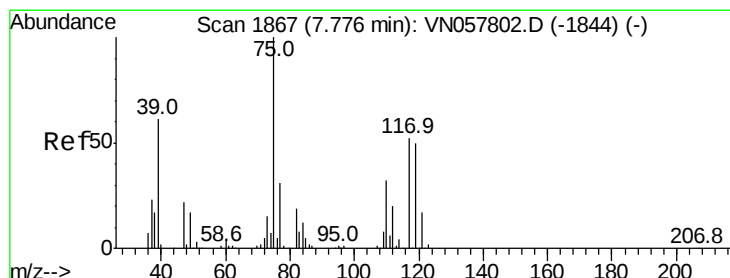
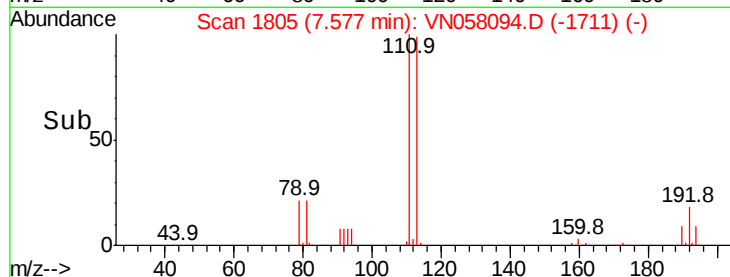
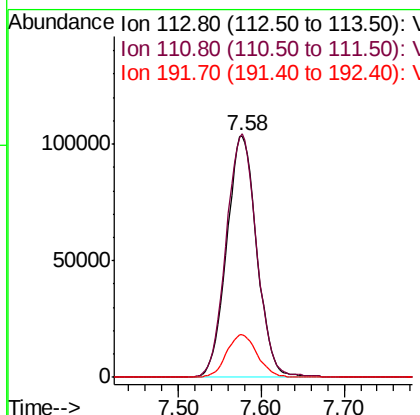
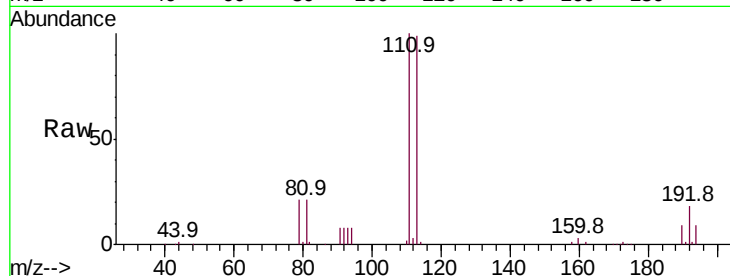




#35
 Dibromofluoromethane
 Concen: 52.531 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058094.D
 Acq: 15 Sep 2019 16:06

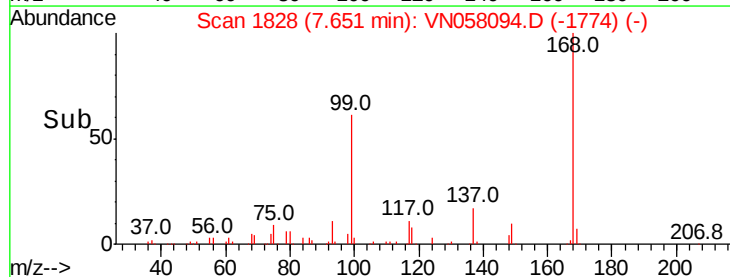
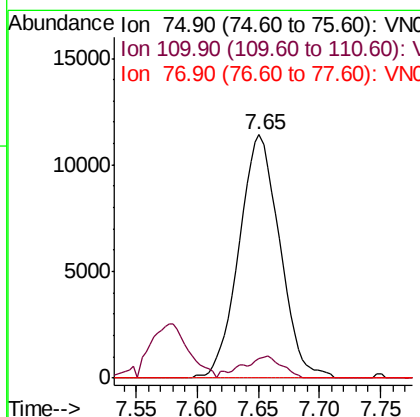
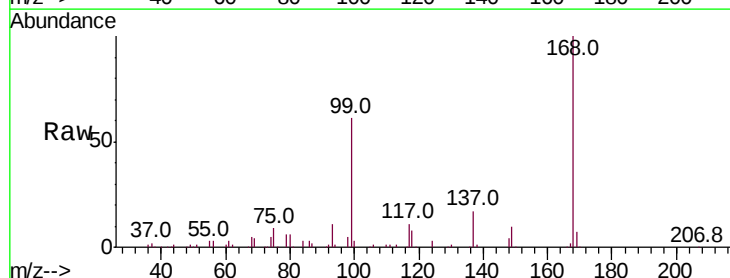
Instrument :
 MSVOA_N
 ClientSampled :

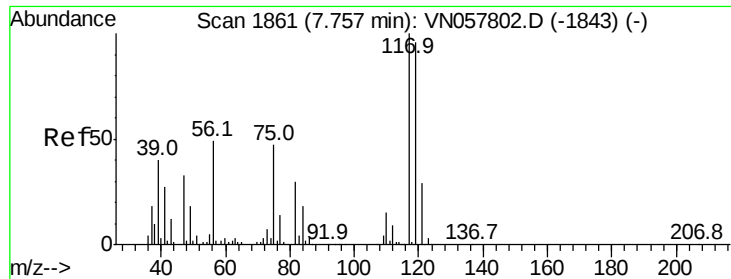
Tot Ion:113 Resp: 261686
 Ion Ratio Lower Upper
 113 100
 111 102.1 81.3 121.9
 192 18.1 14.6 22.0



#36
 1,1-Dichloropropene
 Concen: 4.209 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058094.D
 Acq: 15 Sep 2019 16:06

Tgt Ion: 75 Resp: 26344
 Ion Ratio Lower Upper
 75 100
 110 8.6 16.3 48.9#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.613 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058094.D

Acq: 15 Sep 2019 16:06

Instrument :

MSVOA_N

ClientSampled :

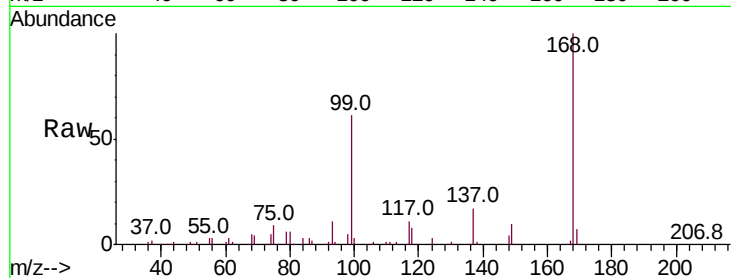
Tot Ion:117 Resp: 32075

Ion Ratio Lower Upper

117 100

119 3.7 76.9 115.3#

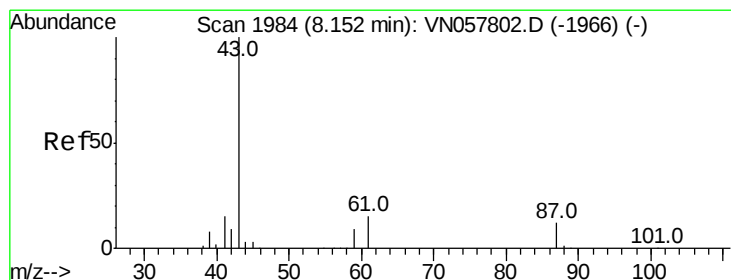
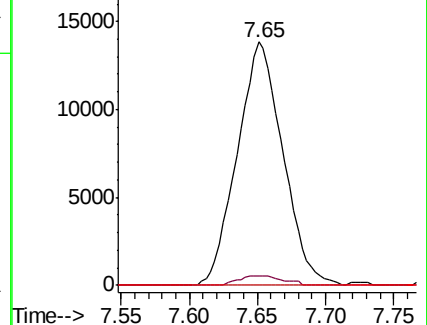
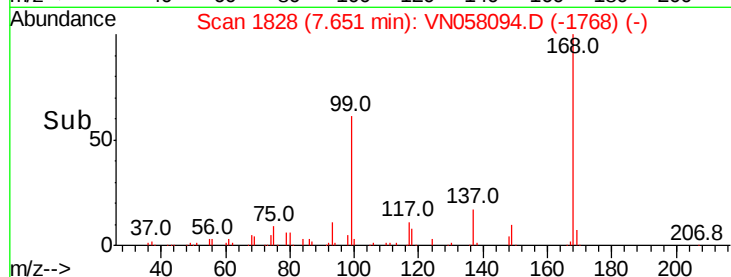
121 0.0 23.4 35.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 13.752 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN058094.D

Acq: 15 Sep 2019 16:06

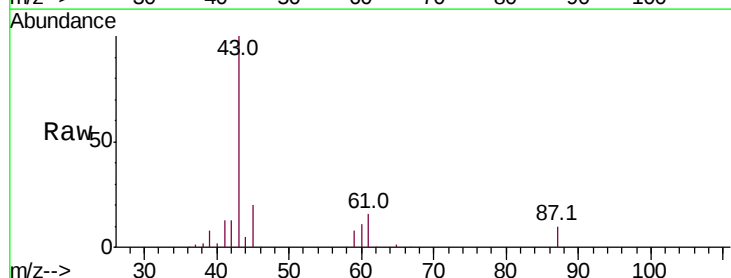
Tgt Ion: 43 Resp: 149567

Ion Ratio Lower Upper

43 100

61 13.2 20.1 30.1#

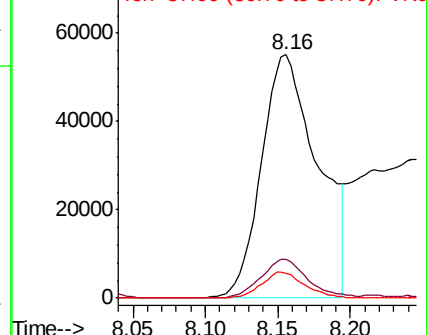
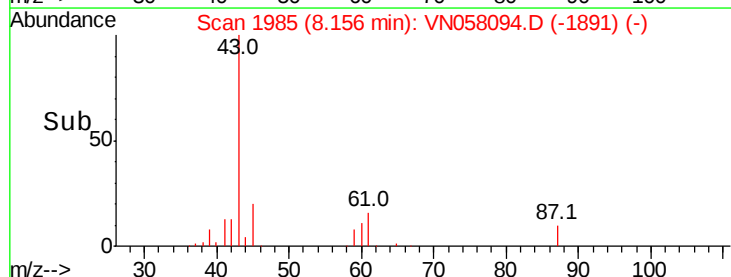
87 8.2 9.5 14.3#

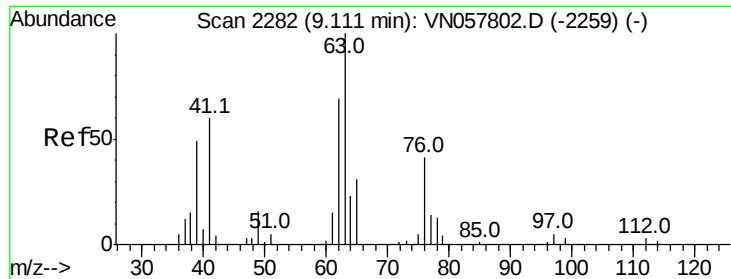


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

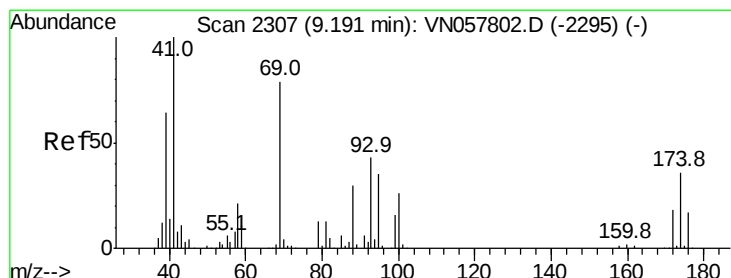
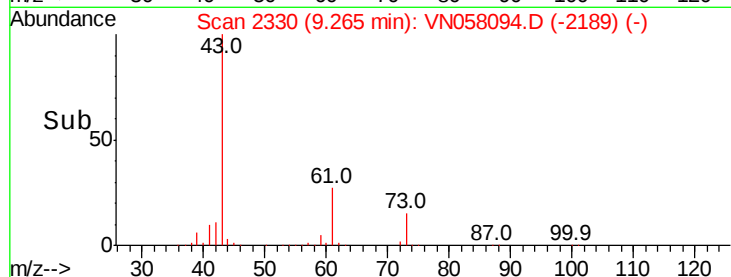
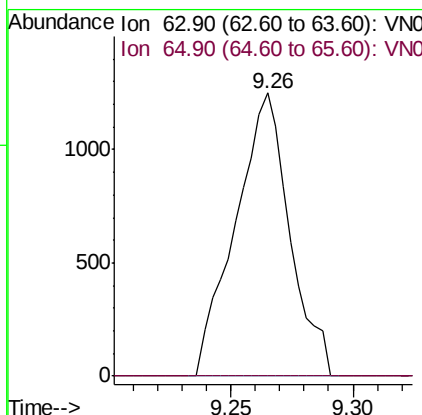
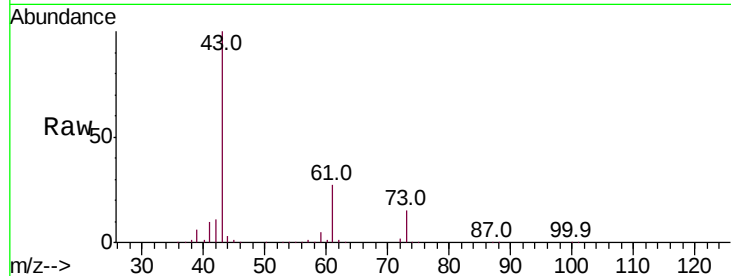




#45
 1,2-Dichloropropane
 Concen: 0.351 ug/l
 RT: 9.26 min Scan# 2330
 Delta R.T. 0.15 min
 Lab File: VN058094.D
 Acq: 15 Sep 2019 16:06

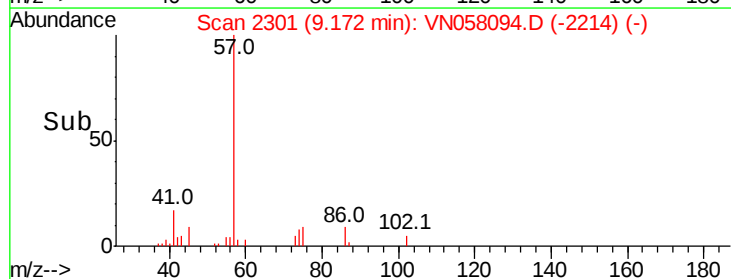
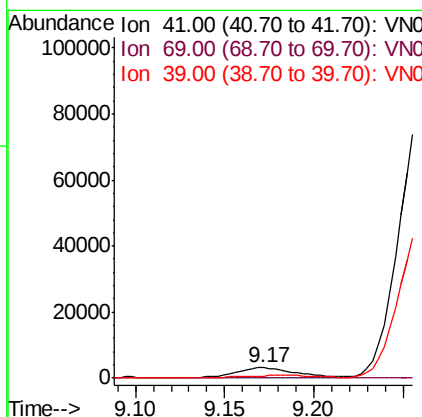
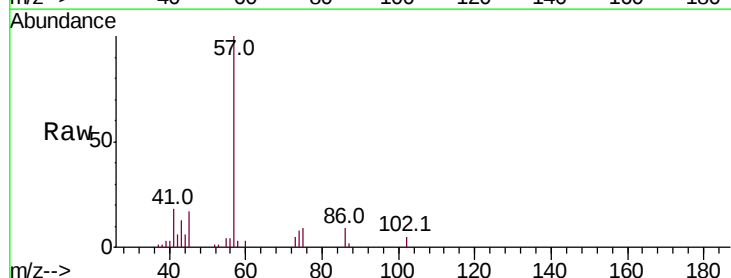
Instrument :
 MSVOA_N
 ClientSampled :

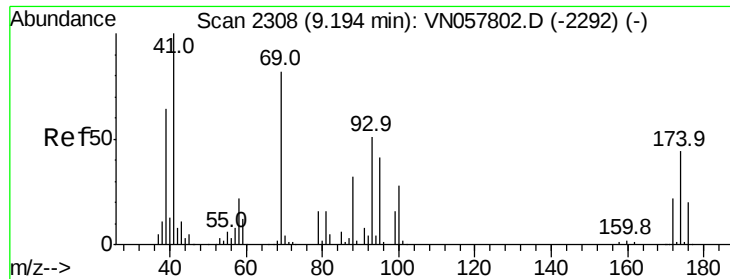
Tot Ion: 63 Resp: 1926
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.8 37.2#



#48
 Methyl methacrylate
 Concen: 1.346 ug/l
 RT: 9.17 min Scan# 2301
 Delta R.T. -0.02 min
 Lab File: VN058094.D
 Acq: 15 Sep 2019 16:06

Tgt Ion: 41 Resp: 7427
 Ion Ratio Lower Upper
 41 100
 69 0.0 62.7 94.1#
 39 0.0 52.7 79.1#





#49

1,4-Dioxane

Concen: 1.222 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.07 min

Lab File: VN058094.D

Acq: 15 Sep 2019 16:06

Instrument :
MSVOA_N
ClientSampled :

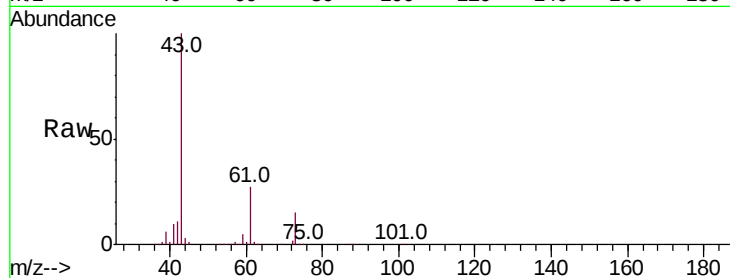
Tot Ion: 88 Resp: 114

Ion Ratio Lower Upper

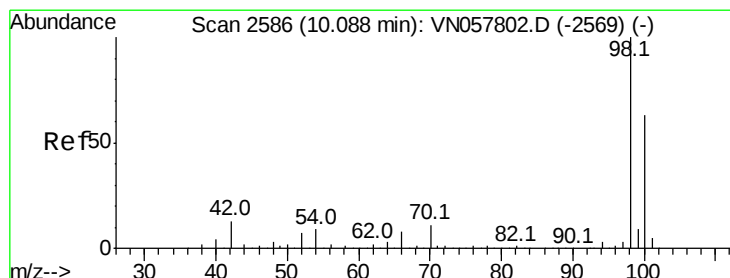
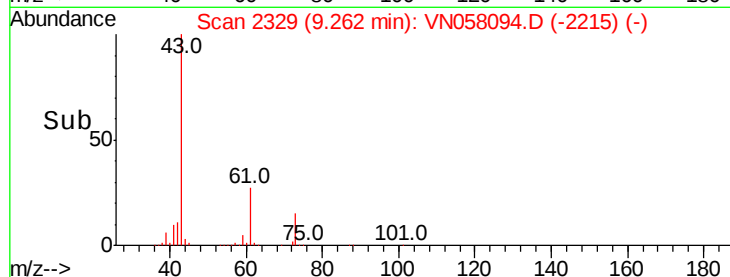
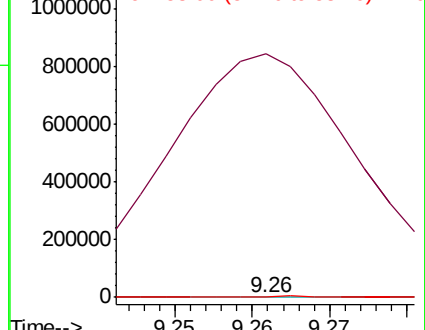
88 100

43 1340750.9 28.5 42.7#

58 6202.6 55.8 83.6#



Abundance Ion 88.00 (87.70 to 88.70): VNO
Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO



#50

Toluene-d8

Concen: 51.050 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058094.D

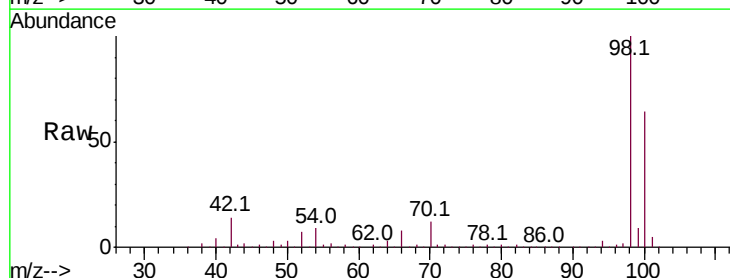
Acq: 15 Sep 2019 16:06

Tgt Ion: 98 Resp: 987361

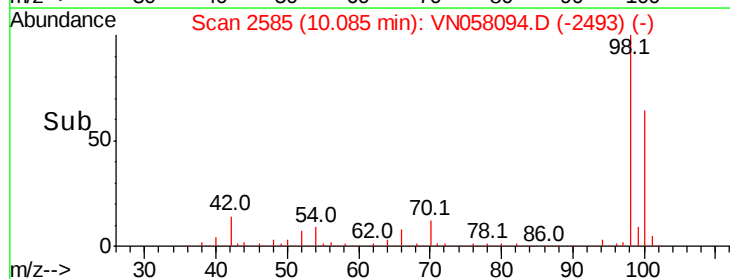
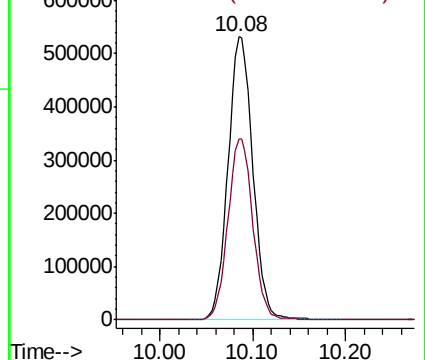
Ion Ratio Lower Upper

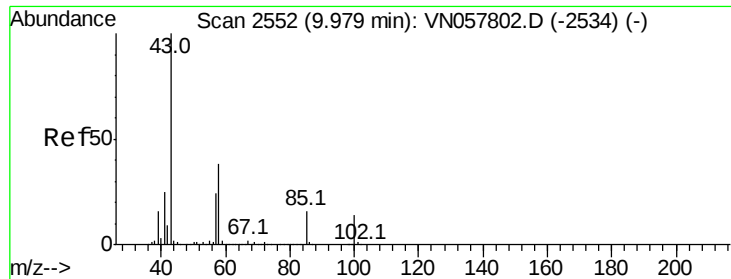
98 100

100 64.3 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VNO
Ion 100.00 (99.70 to 100.70): VNO





#51

4-Methyl-2-Pentanone

Concen: 1.391 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058094.D

Acq: 15 Sep 2019 16:06

Instrument :

MSVOA_N

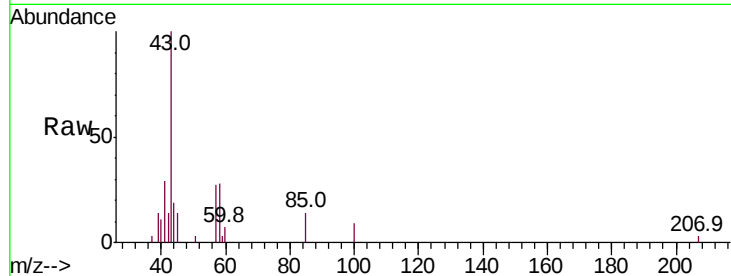
ClientSampleId :

Tot Ion: 43 Resp: 8951

Ion Ratio Lower Upper

43 100

58 32.7 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN057802.D (-2534) (-)

10000

8000

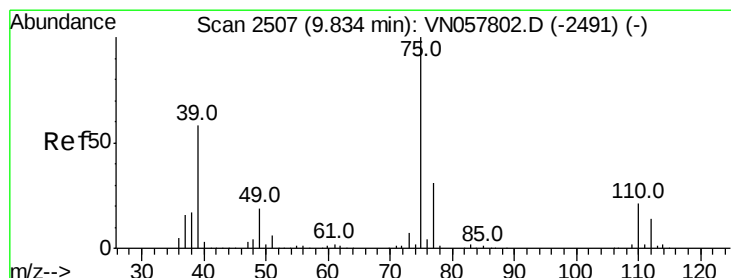
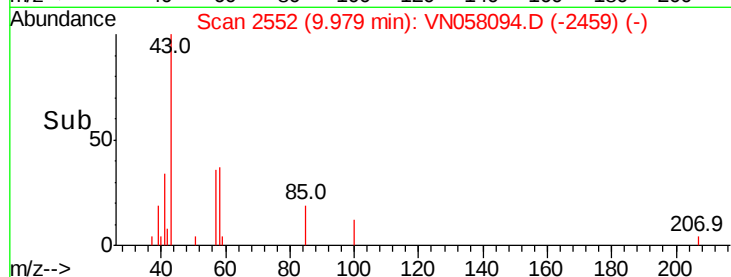
6000

4000

2000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 6.168 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN058094.D

Acq: 15 Sep 2019 16:06

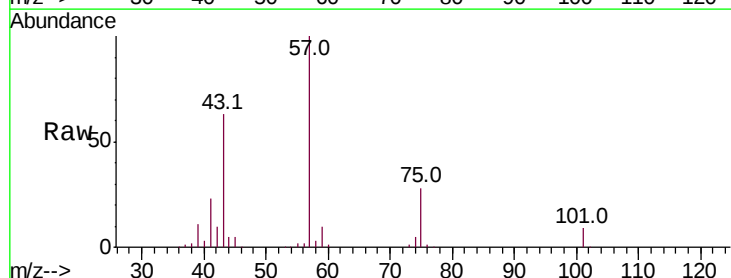
Tgt Ion: 75 Resp: 47449

Ion Ratio Lower Upper

75 100

77 0.8 24.8 37.2#

39 40.0 46.2 69.4#



Abundance Ion 74.90 (74.60 to 75.60): VN057802.D (-2491) (-)

Ion 76.90 (76.60 to 77.60): VN057802.D (-2491) (-)

Ion 39.00 (38.70 to 39.70): VN057802.D (-2491) (-)

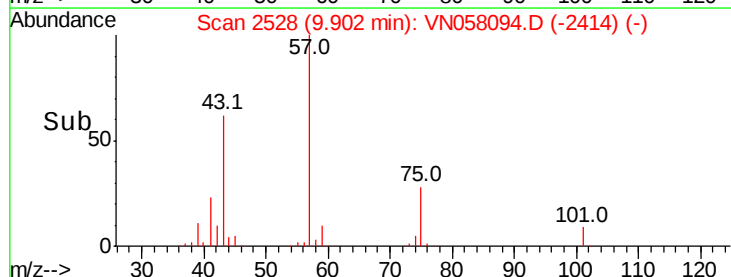
30000

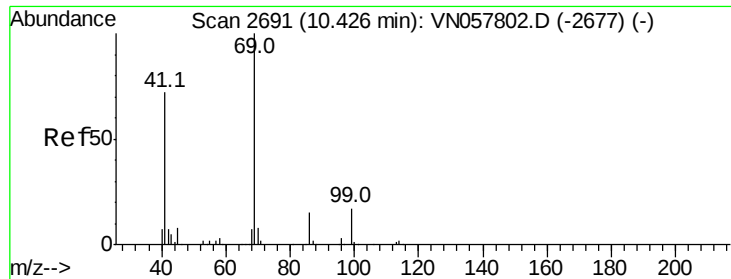
20000

10000

0

Time-->





#56

Ethyl methacrylate

Concen: 0.275 ug/l

RT: 10.54 min Scan# 2726

Delta R.T. 0.11 min

Lab File: VN058094.D

Acq: 15 Sep 2019 16:06

Instrument :

MSVOA_N

ClientSampled :

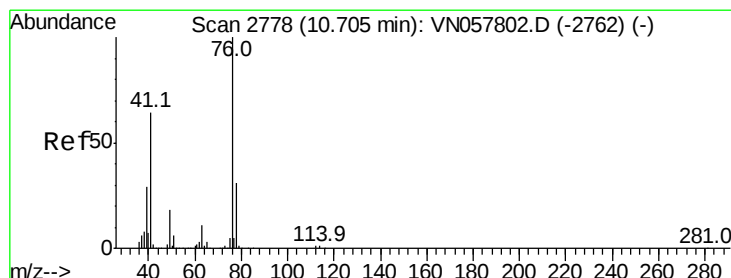
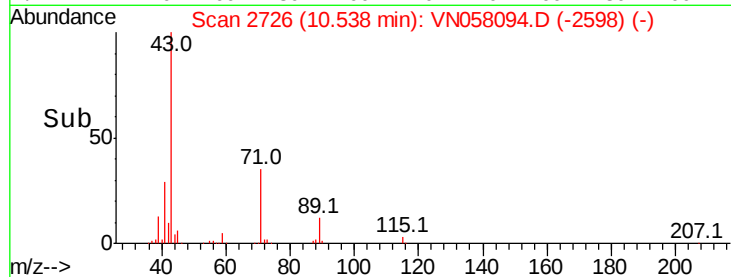
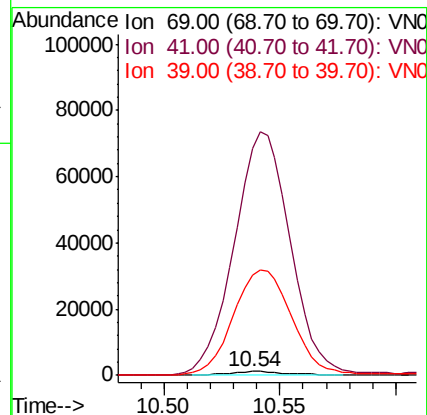
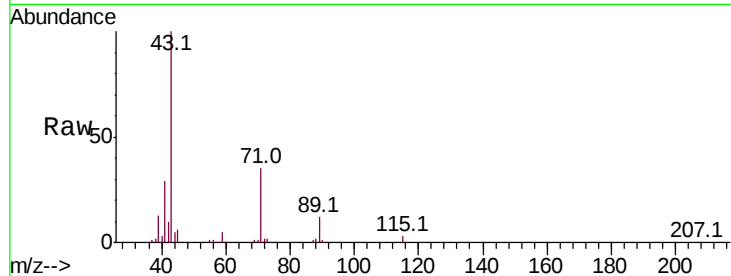
Tot Ion: 69 Resp: 2079

Ion Ratio Lower Upper

69 100

41 6004.0 56.7 85.1#

39 2667.2 36.3 54.5#



#57

1,3-Dichloropropane

Concen: 0.826 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.05 min

Lab File: VN058094.D

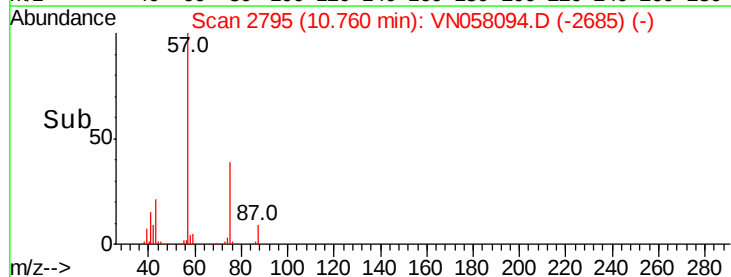
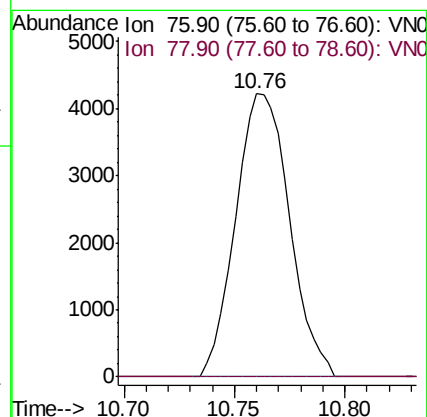
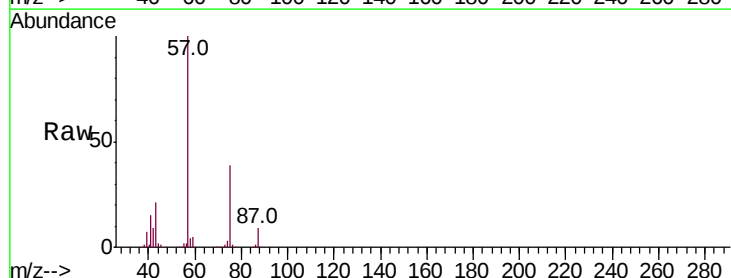
Acq: 15 Sep 2019 16:06

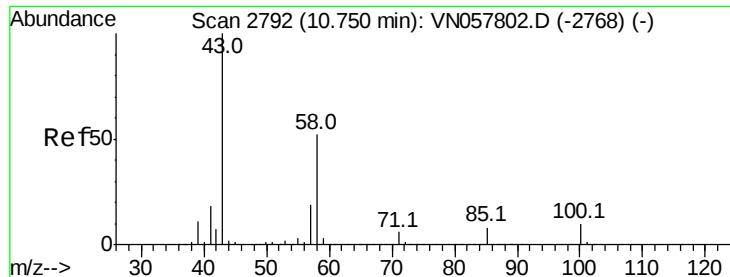
Tgt Ion: 76 Resp: 7154

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#





#59

2-Hexanone

Concen: 23.196 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN058094.D

Acq: 15 Sep 2019 16:06

Instrument :

MSVOA_N

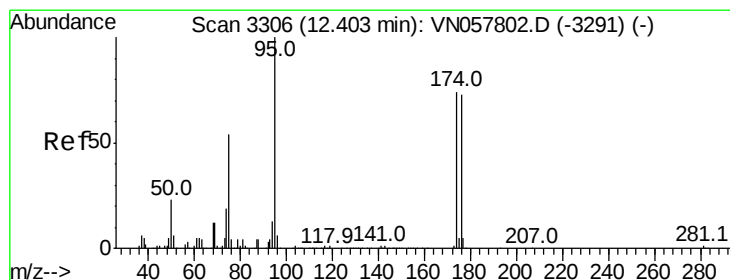
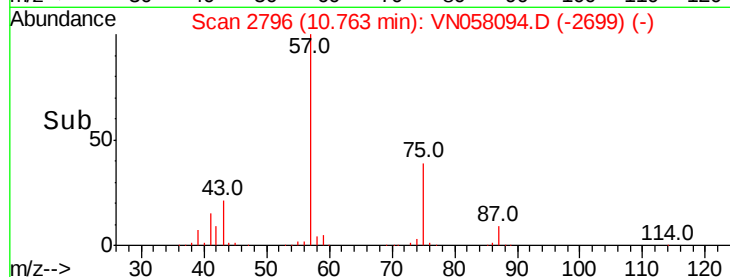
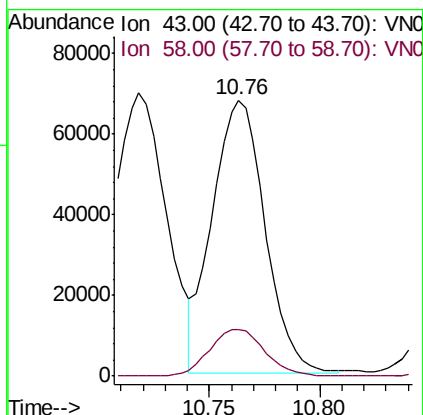
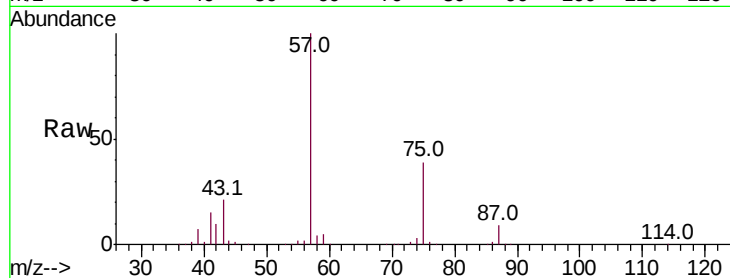
ClientSampled :

Tot Ion: 43 Resp: 111897

Ion Ratio Lower Upper

43 100

58 18.0 25.6 76.8#



#62

4-Bromofluorobenzene

Concen: 46.177 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058094.D

Acq: 15 Sep 2019 16:06

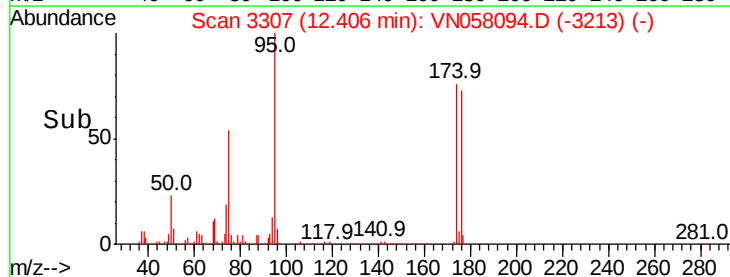
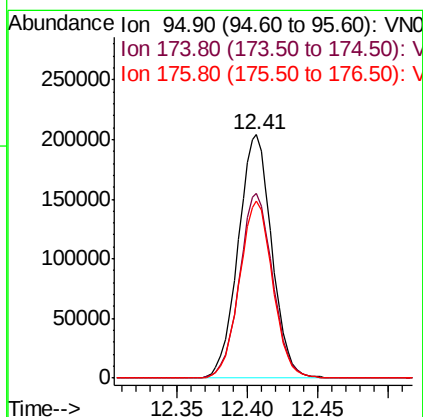
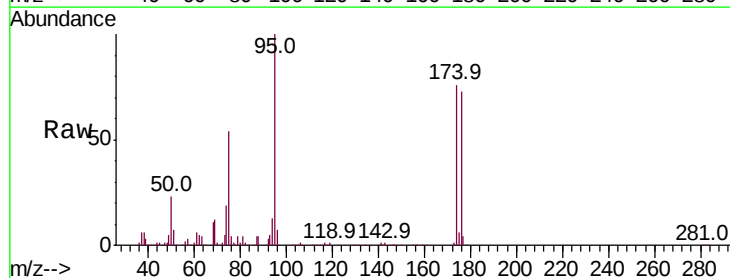
Tgt Ion: 95 Resp: 340353

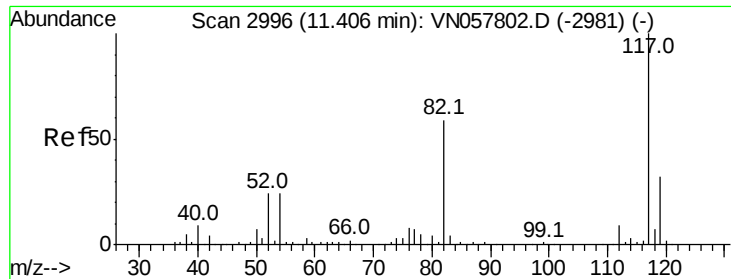
Ion Ratio Lower Upper

95 100

174 75.3 0.0 150.2

176 72.2 0.0 146.0

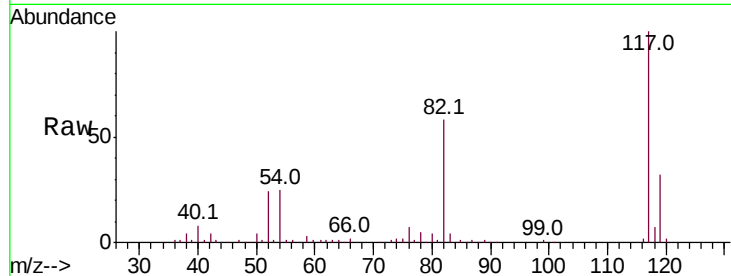




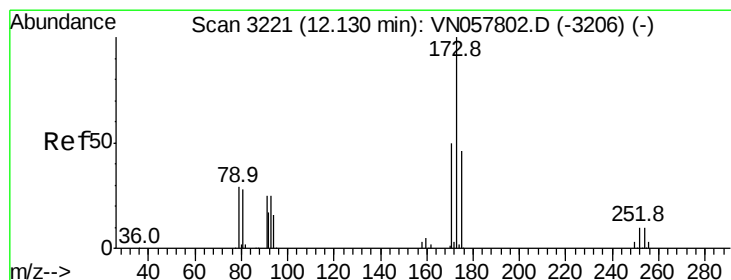
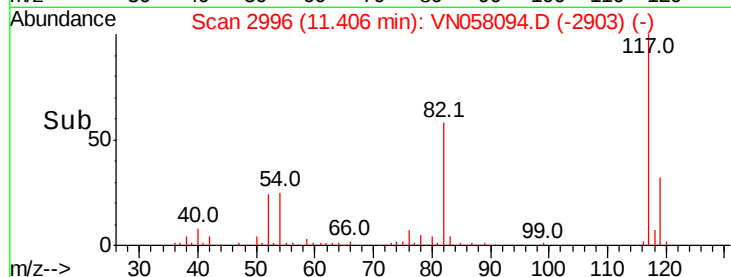
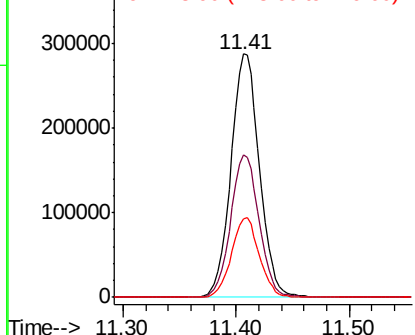
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058094.D
Acq: 15 Sep 2019 16:06

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 502903
Ion Ratio Lower Upper
117 100
82 58.5 47.2 70.8
119 32.4 25.3 37.9

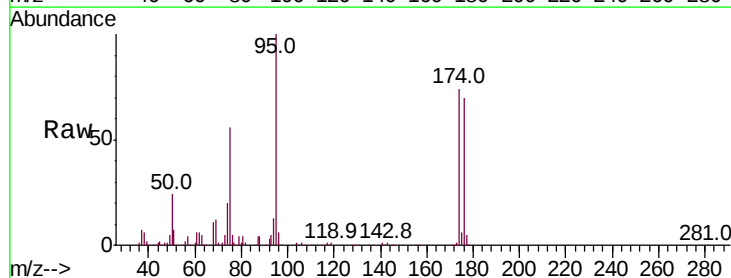


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

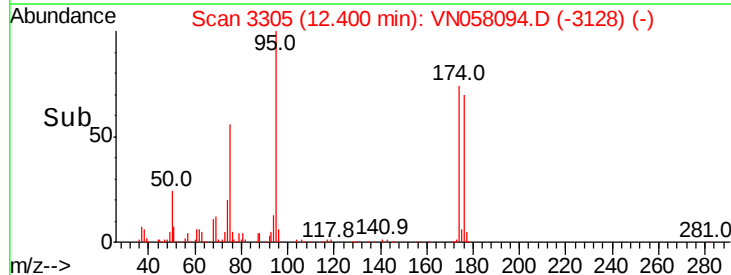
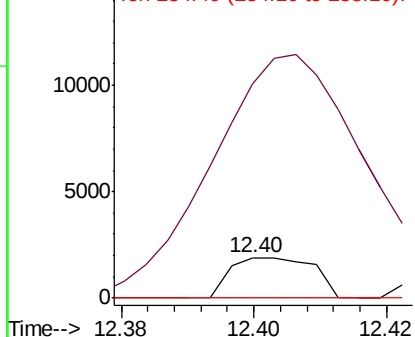


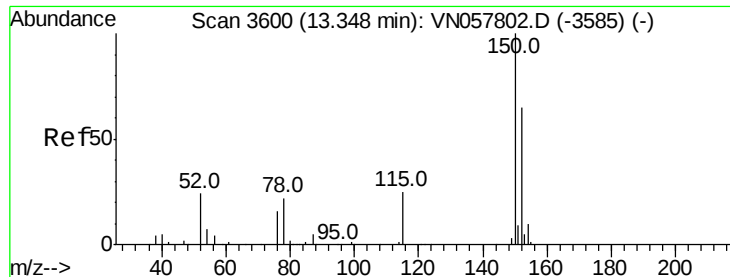
#71
Bromoform
Concen: 0.584 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN058094.D
Acq: 15 Sep 2019 16:06

Tgt Ion:173 Resp: 1664
Ion Ratio Lower Upper
173 100
175 968.9 23.5 70.6#
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058094.D

Acq: 15 Sep 2019 16:06

Instrument :

MSVOA_N

ClientSampleId :

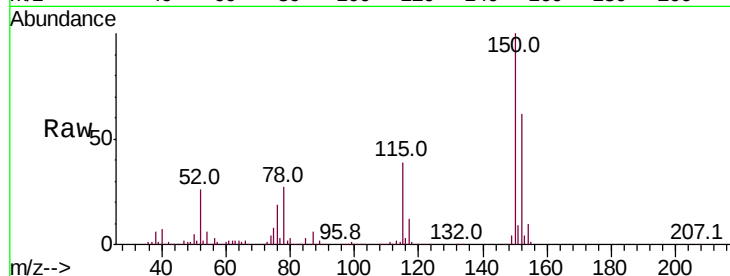
Tot Ion:152 Resp: 263102

Ion Ratio Lower Upper

152 100

115 61.9 30.3 91.0

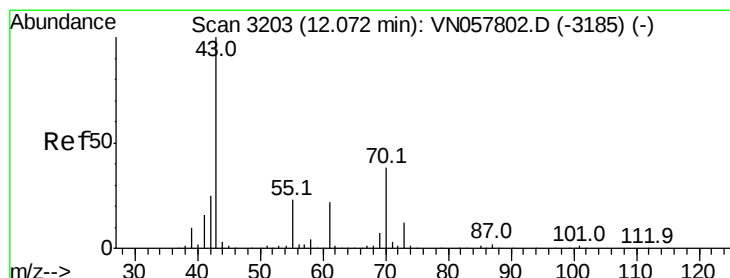
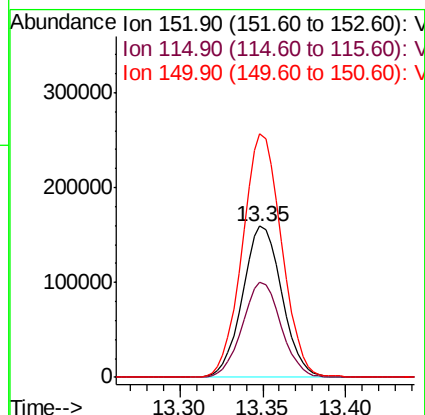
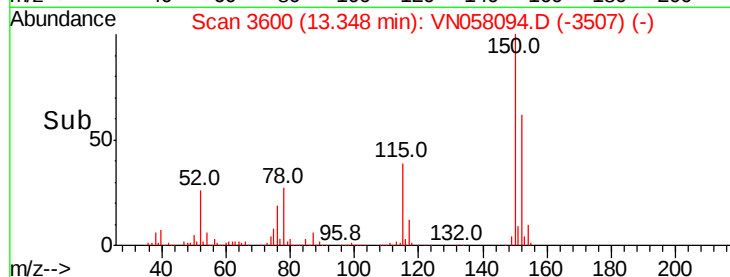
150 161.0 0.0 352.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.701 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN058094.D

Acq: 15 Sep 2019 16:06

Tgt Ion: 43 Resp: 6226

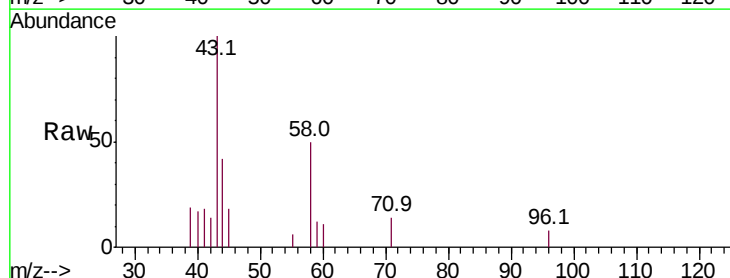
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 1.9 18.6 27.8#

61 0.0 17.4 26.2#

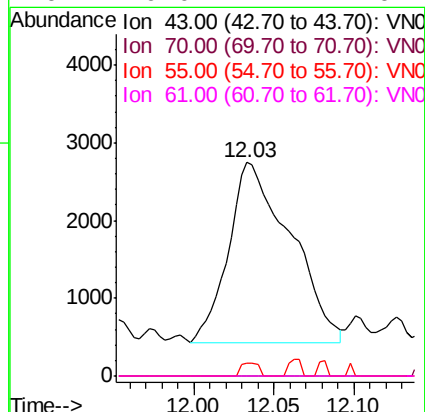
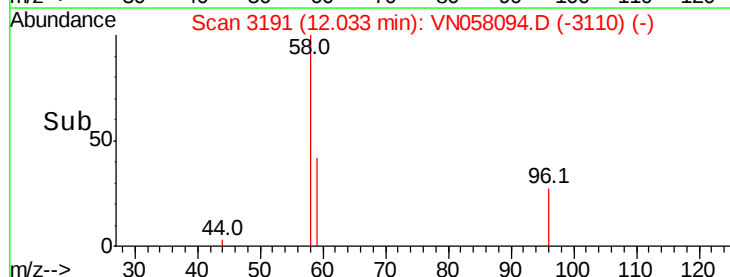


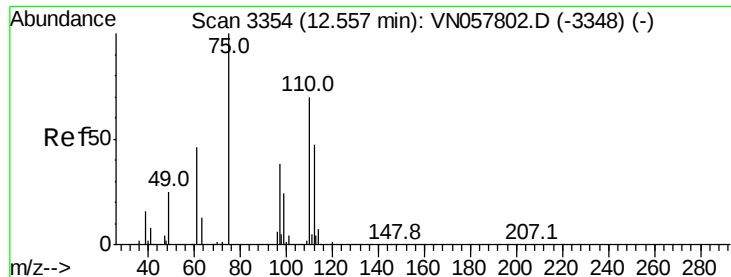
Abundance Ion 43.00 (42.70 to 43.70): V

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: 31.350 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058094.D

Acq: 15 Sep 2019 16:06

Instrument :

MSVOA_N

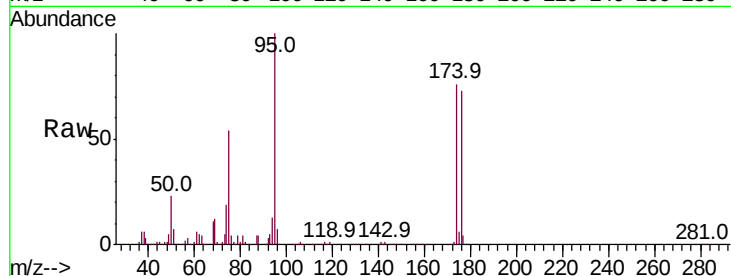
ClientSampleId :

Tot Ion: 75 Resp: 186591

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.41

120000

100000

80000

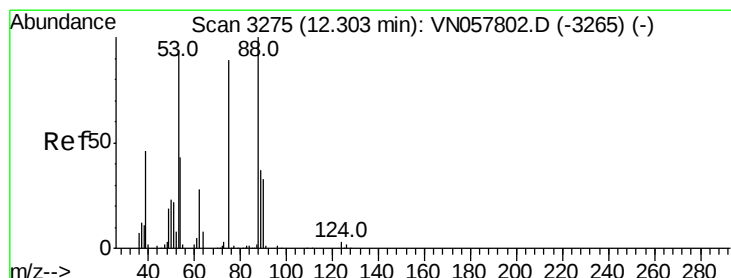
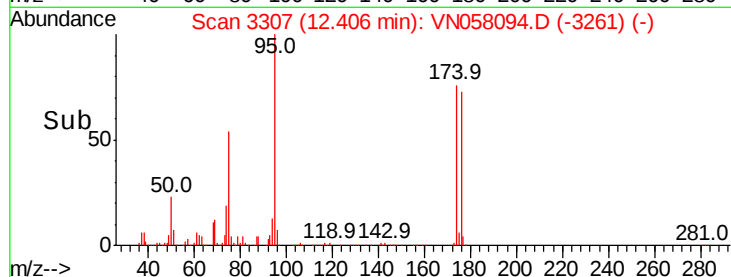
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 110.322 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058094.D

Acq: 15 Sep 2019 16:06

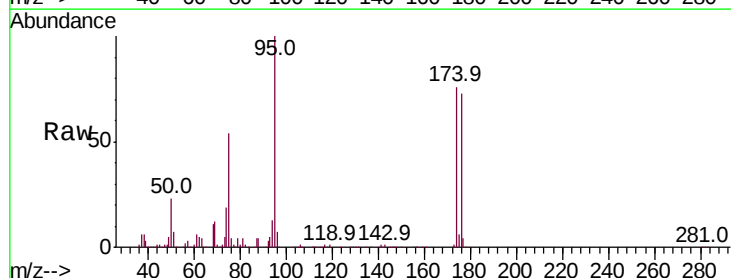
Tgt Ion: 75 Resp: 186591

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

89 0.0 35.3 52.9#



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

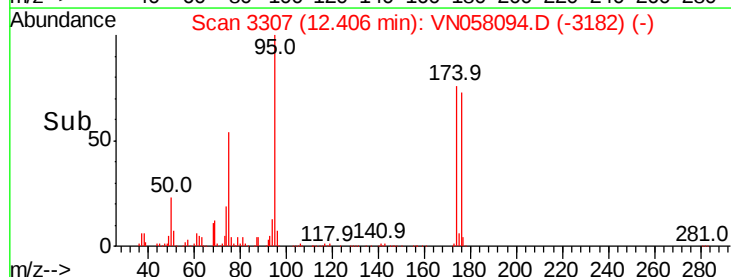
150000

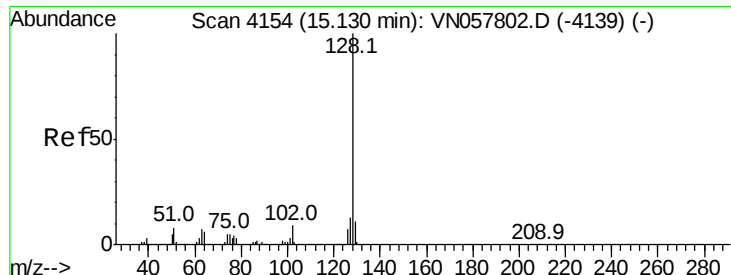
100000

50000

0

Time-->





#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN058094.D

Acq: 15 Sep 2019 16:06

Instrument :

MSVOA_N

ClientSampleId :

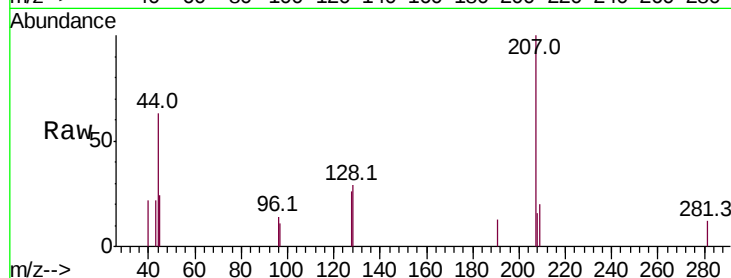
Tot Ion:128 Resp: 880

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

