

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN092019\
 Data File : VN058258.D
 Acq On : 20 Sep 2019 18:10
 Operator : JC/SP
 Sample : K4974-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB03-20190916

Quant Time: Sep 20 23:52:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	502893	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	808867	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	694361	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	283160	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	360608	51.48	ug/l	0.00
Spiked Amount			Recovery	=	102.96%	
35) Dibromofluoromethane	7.57	113	249334	50.71	ug/l	0.00
Spiked Amount			Recovery	=	101.42%	
50) Toluene-d8	10.09	98	1023627	53.43	ug/l	0.00
Spiked Amount			Recovery	=	106.86%	
62) 4-Bromofluorobenzene	12.41	95	322675	45.34	ug/l	0.00
Spiked Amount			Recovery	=	90.68%	

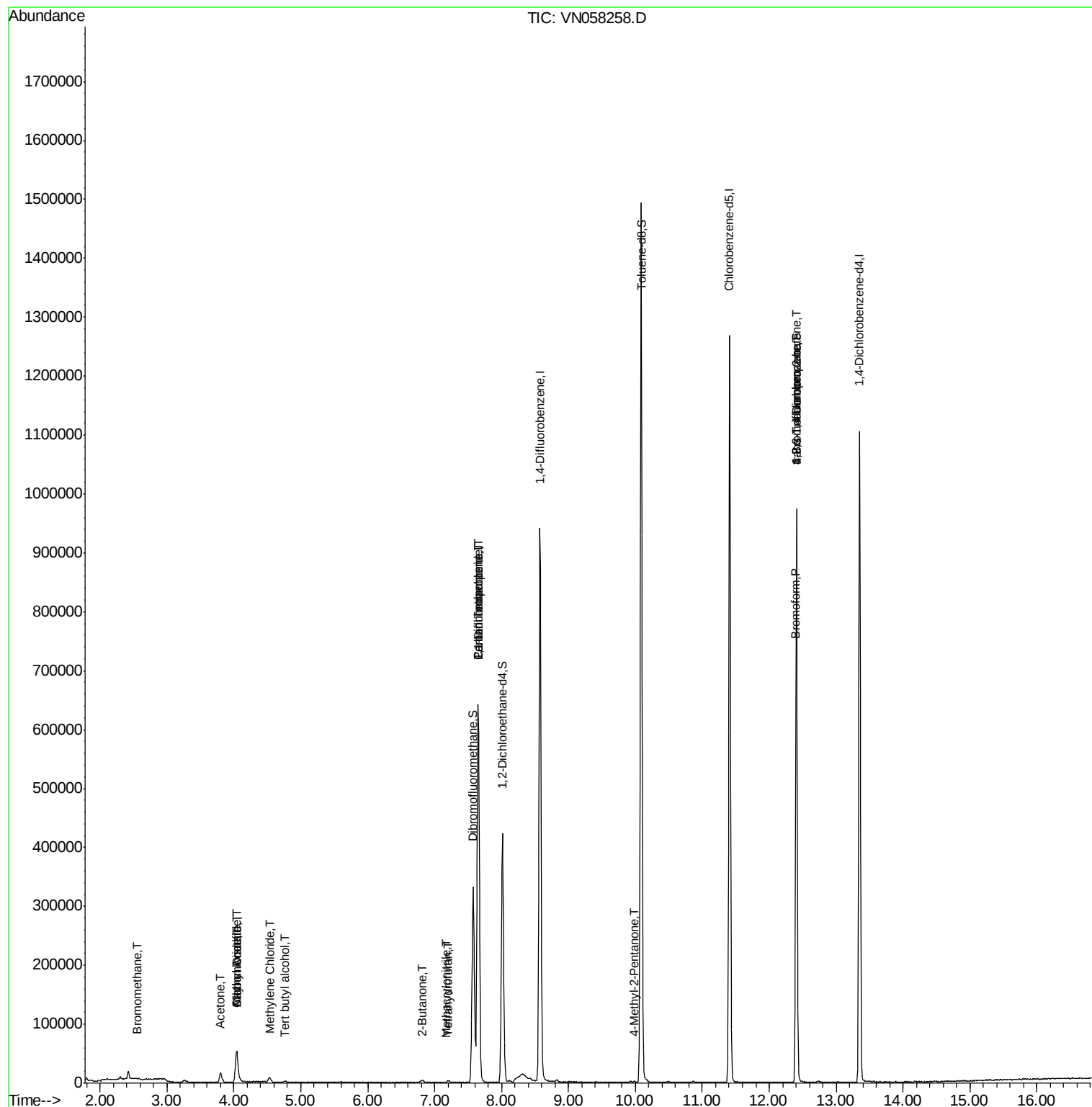
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1079	Below Cal	#	85
5) Bromomethane	2.56	94	126	0.790	ug/l #	75
6) Chloroethane	2.72	64	64	Below Cal	#	44
11) Tert butyl alcohol	4.76	59	2331	2.798	ug/l #	91
14) Allyl chloride	4.04	41	6961	1.046	ug/l #	64
16) Acetone	3.80	43	24299	10.220	ug/l	93
17) Carbon Disulfide	4.03	76	111	0.296	ug/l #	74
18) Methyl Acetate	4.04	43	22236	3.554	ug/l #	53
20) Methylene Chloride	4.54	84	3220	0.554	ug/l	91
25) 2-Butanone	6.83	43	1653	0.510	ug/l	97
29) Tetrahydrofuran	7.19	42	1959	0.982	ug/l #	55
31) Cyclohexane	7.65	56	13006	Below Cal	#	11
36) 1,1-Dichloropropene	7.65	75	42016	7.203	ug/l #	46
38) Carbon Tetrachloride	7.65	117	51621	8.804	ug/l #	15
41) Methacrylonitrile	7.17	41	135	0.954	ug/l #	100
51) 4-Methyl-2-Pentanone	9.98	43	1256	0.209	ug/l #	86
71) Bromoform	12.39	173	101	3.624	ug/l #	29
76) 1,2,3-Trichloropropane	12.41	75	180160	35.551	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	180160	99.357	ug/l #	5

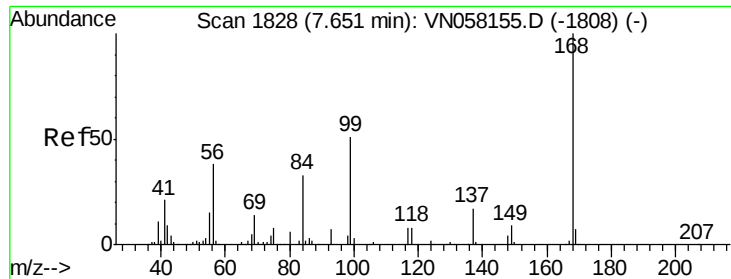
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058258.D

Acq: 20 Sep 2019 18:10

Instrument :

MSVOA_N

ClientSampleId :

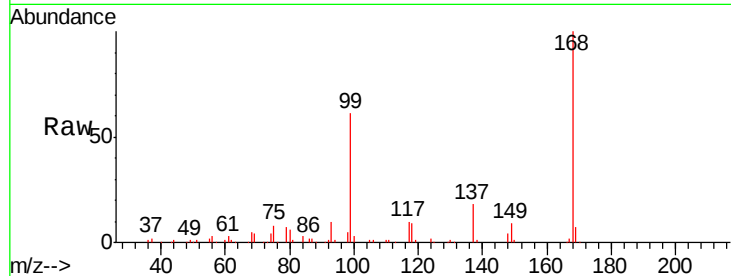
TB03-20190916

Tgt Ion:168 Resp: 502893

Ion Ratio Lower Upper

168 100

99 61.3 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.65

200000

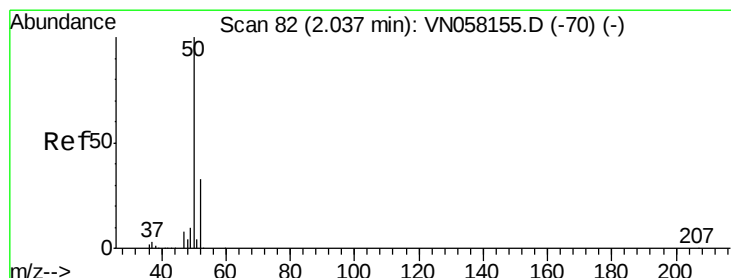
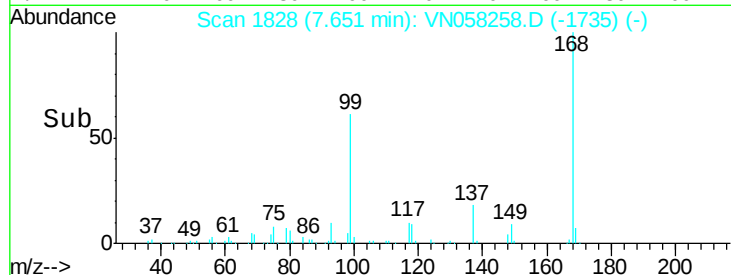
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN058258.D

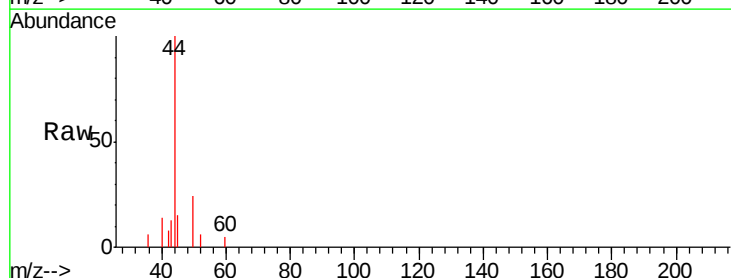
Acq: 20 Sep 2019 18:10

Tgt Ion: 50 Resp: 1079

Ion Ratio Lower Upper

50 100

52 24.3 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.04

800

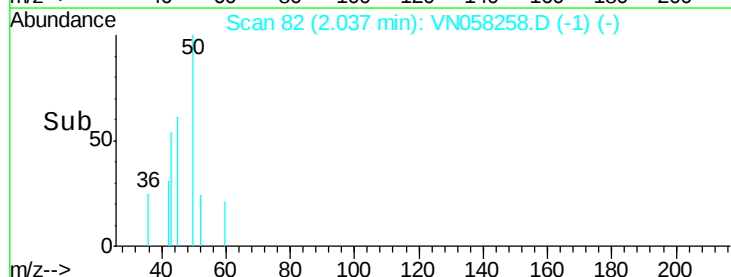
600

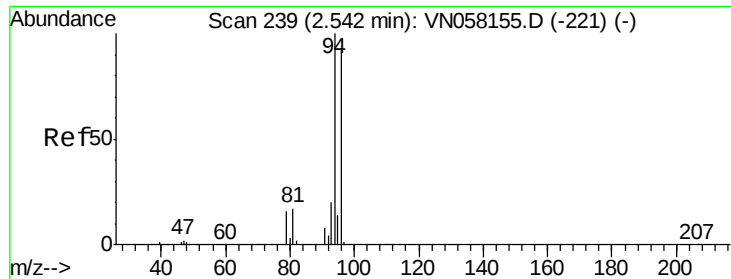
400

200

0

Time-->





#5

Bromomethane

Concen: 0.790 ug/l

RT: 2.56 min Scan# 244

Delta R.T. 0.02 min

Lab File: VN058258.D

Acq: 20 Sep 2019 18:10

Instrument :

MSVOA_N

ClientSampleId :

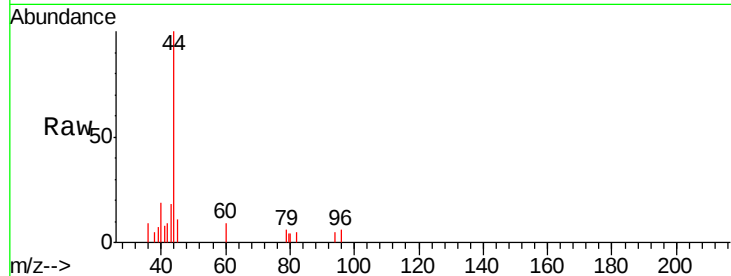
TB03-20190916

Tgt Ion: 94 Resp: 126

Ion Ratio Lower Upper

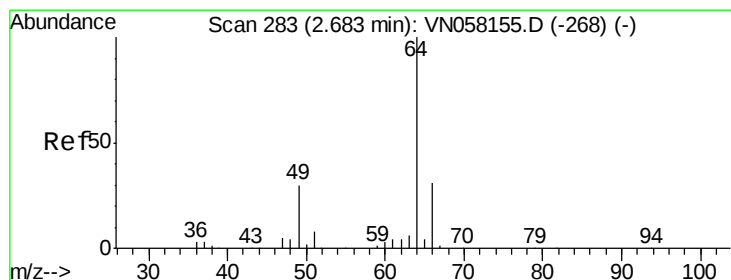
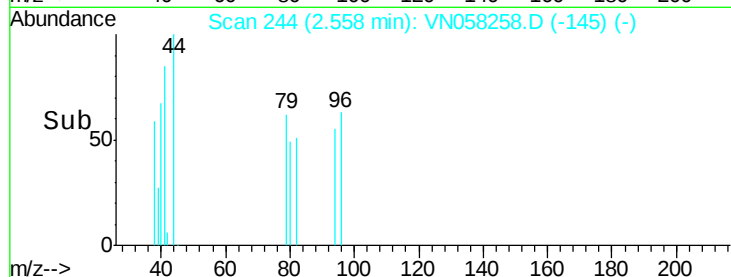
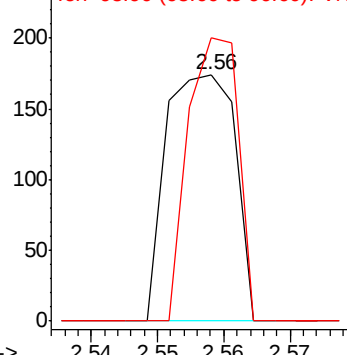
94 100

96 114.9 73.3 109.9#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: Below Cal

RT: 2.72 min Scan# 293

Delta R.T. 0.03 min

Lab File: VN058258.D

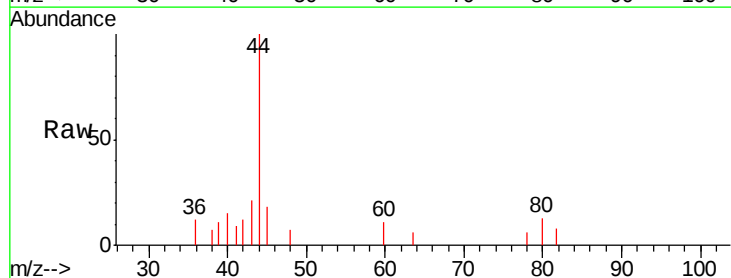
Acq: 20 Sep 2019 18:10

Tgt Ion: 64 Resp: 64

Ion Ratio Lower Upper

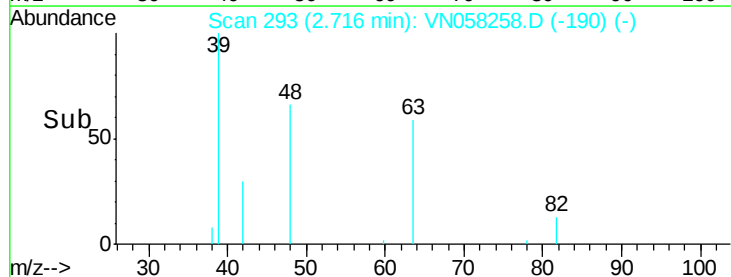
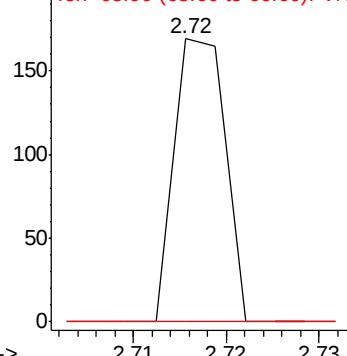
64 100

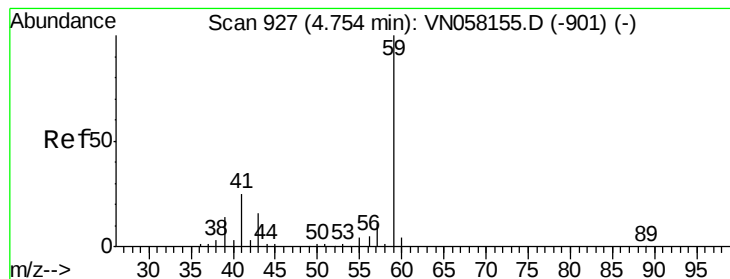
66 0.0 24.6 37.0#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0



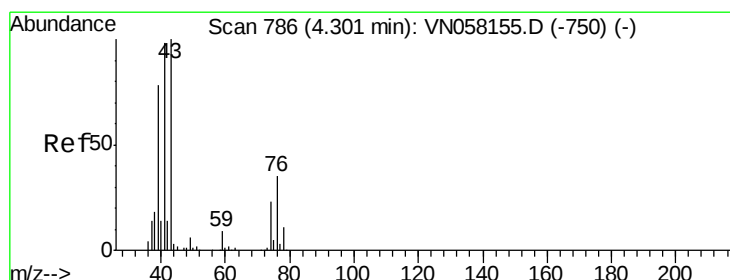
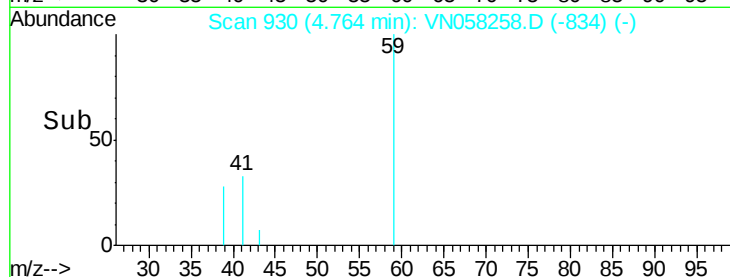
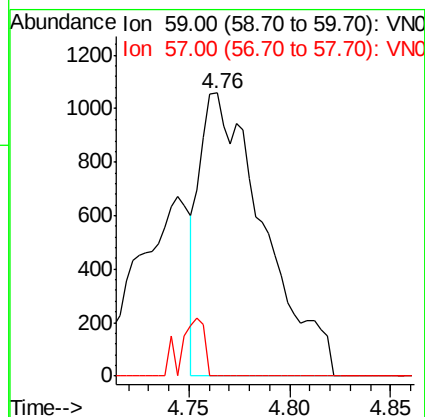
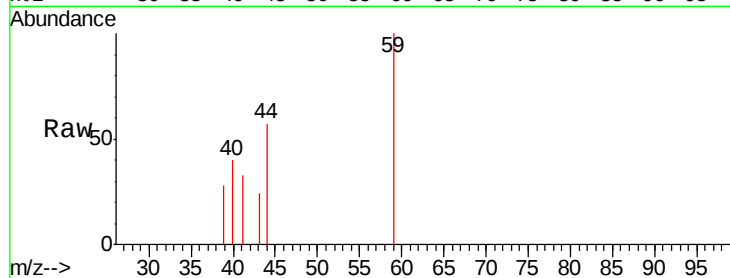


#11

Tert butyl alcohol
 Concen: 2.798 ug/l
 RT: 4.76 min Scan# 930
 Delta R.T. 0.01 min
 Lab File: VN058258.D
 Acq: 20 Sep 2019 18:10

Instrument :
 MSVOA_N
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 TB03-20190916

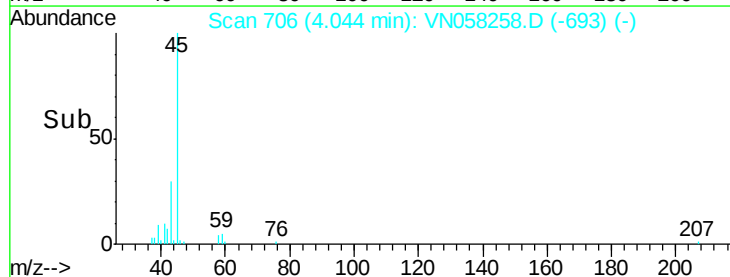
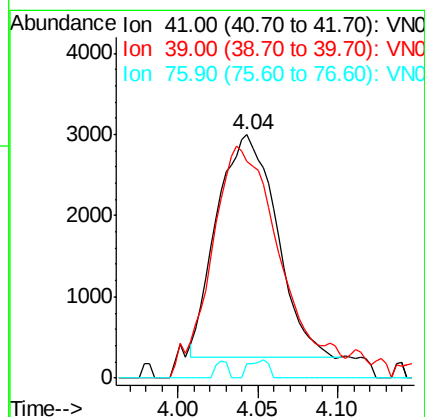
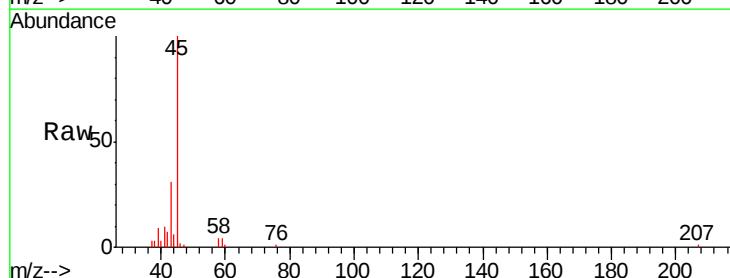
Tgt Ion: 59 Resp: 2331
 Ion Ratio Lower Upper
 59 100
 57 7.5 8.6 13.0#

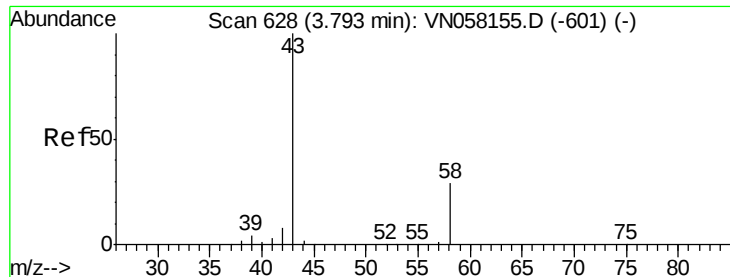


#14

Allyl chloride
 Concen: 1.046 ug/l
 RT: 4.04 min Scan# 706
 Delta R.T. -0.26 min
 Lab File: VN058258.D
 Acq: 20 Sep 2019 18:10

Tgt Ion: 41 Resp: 6961
 Ion Ratio Lower Upper
 41 100
 39 98.1 59.1 88.7#
 76 2.7 25.1 37.7#





#16

Acetone

Concen: 10.220 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN058258.D

Acq: 20 Sep 2019 18:10

Instrument :

MSVOA_N

ClientSampleId :

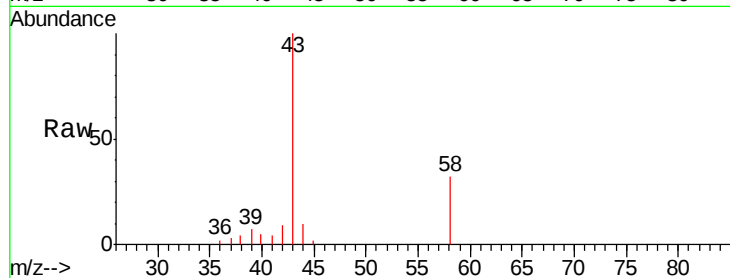
TB03-20190916

Tgt Ion: 43 Resp: 24299

Ion Ratio Lower Upper

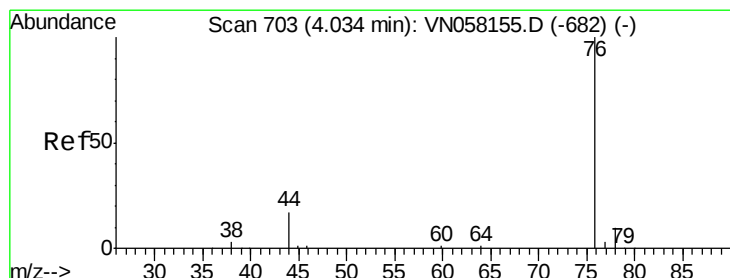
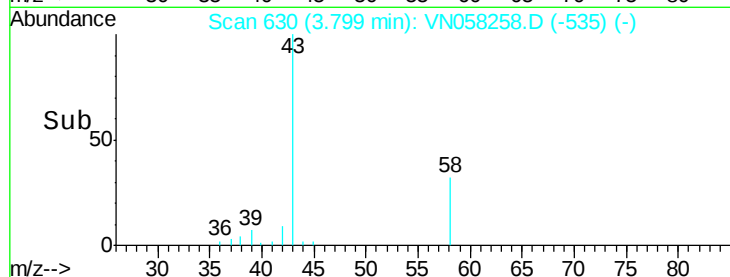
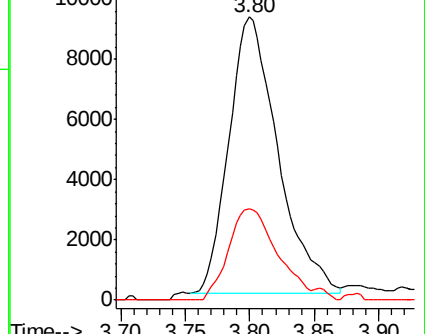
43 100

58 33.0 23.4 35.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#17

Carbon Disulfide

Concen: 0.296 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.01 min

Lab File: VN058258.D

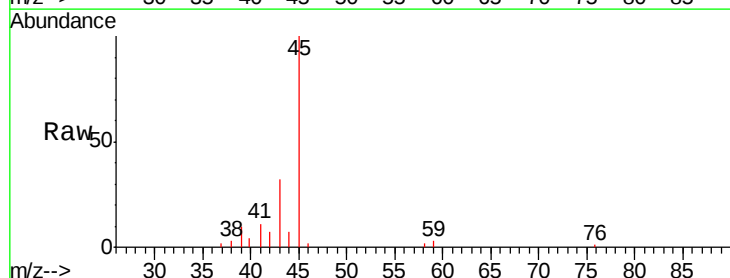
Acq: 20 Sep 2019 18:10

Tgt Ion: 76 Resp: 111

Ion Ratio Lower Upper

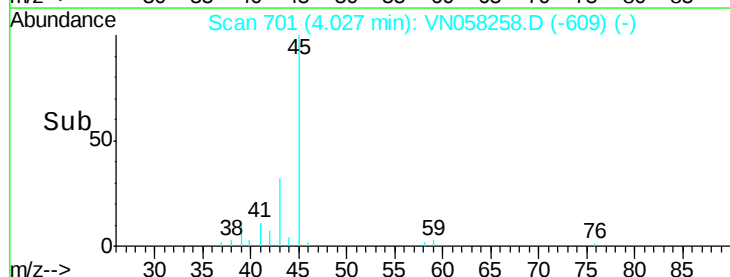
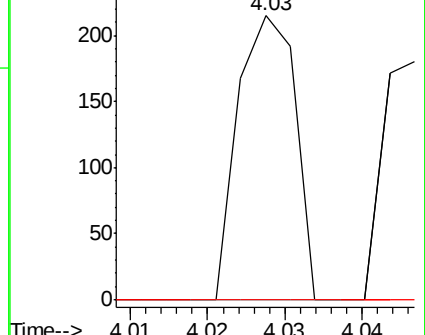
76 100

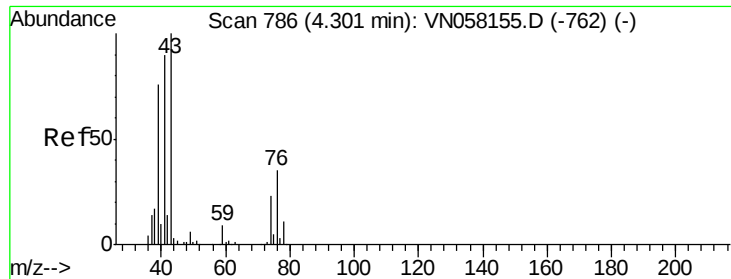
78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

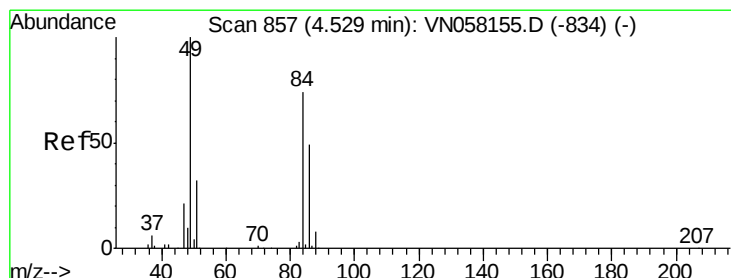
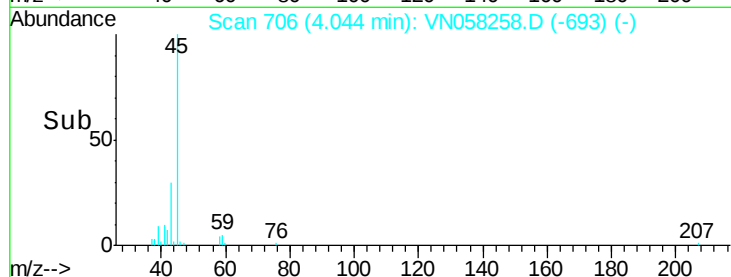
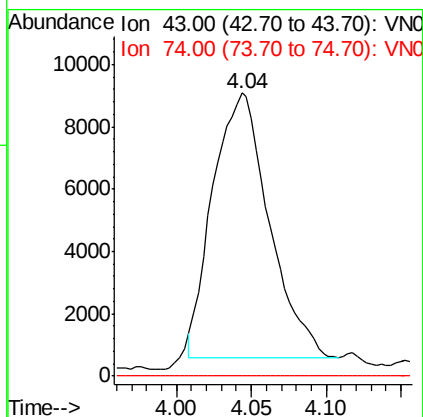
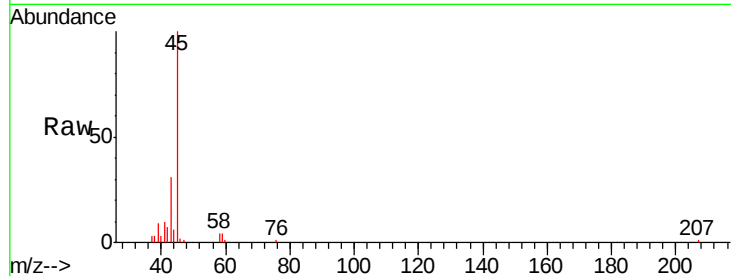




#18
Methyl Acetate
Concen: 3.554 ug/l
RT: 4.04 min Scan# 706
Delta R.T. -0.26 min
Lab File: VN058258.D
Acq: 20 Sep 2019 18:10

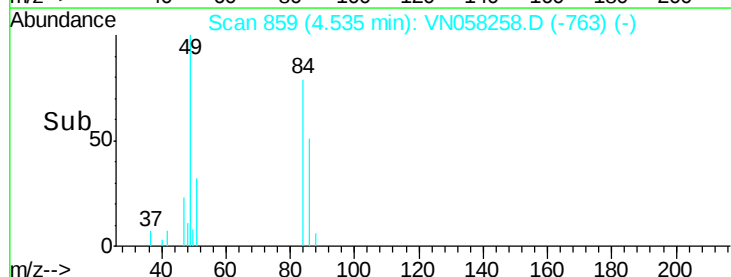
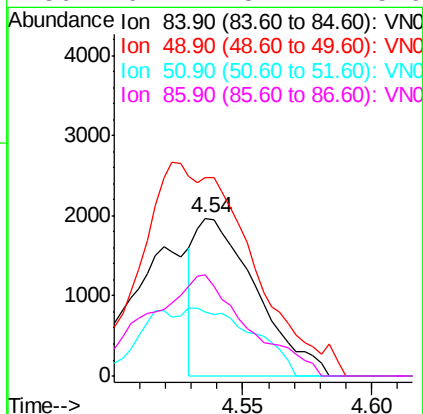
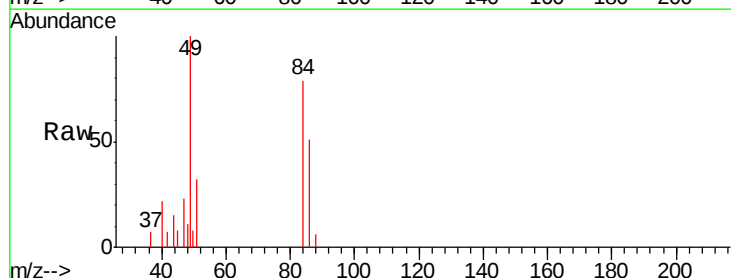
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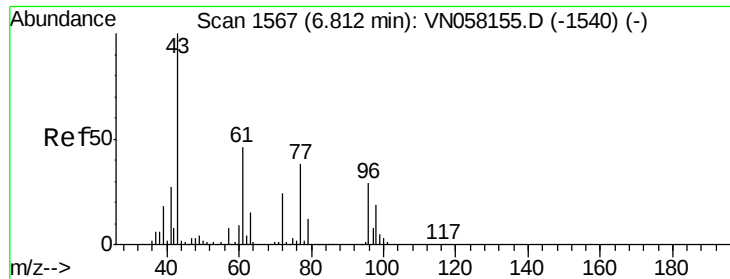
Tgt Ion: 43 Resp: 22236
Ion Ratio Lower Upper
43 100
74 0.0 18.0 27.0#



#20
Methylene Chloride
Concen: 0.554 ug/l
RT: 4.54 min Scan# 859
Delta R.T. 0.01 min
Lab File: VN058258.D
Acq: 20 Sep 2019 18:10

Tgt Ion: 84 Resp: 3220
Ion Ratio Lower Upper
84 100
49 117.0 107.5 161.3
51 40.4 33.9 50.9
86 64.4 52.4 78.6





#25

2-Butanone

Concen: 0.510 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.02 min

Lab File: VN058258.D

Acq: 20 Sep 2019 18:10

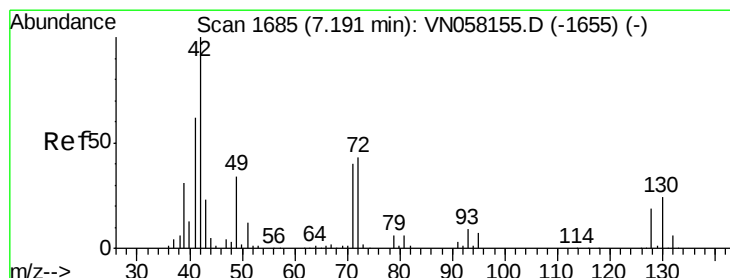
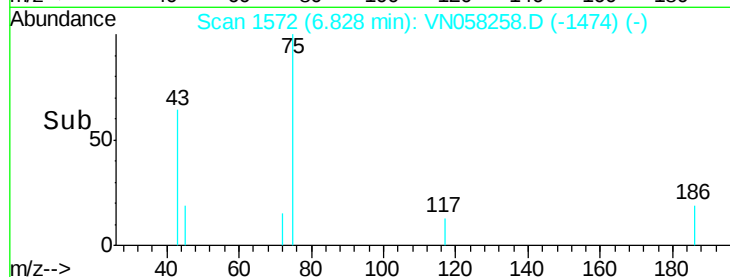
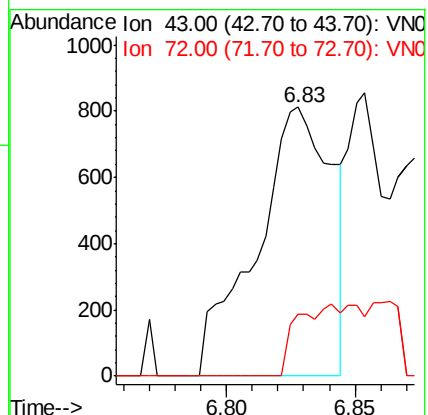
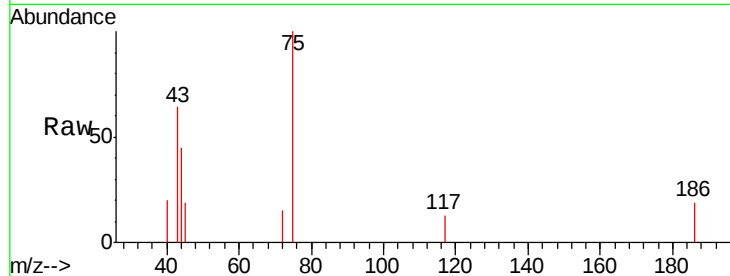
Instrument :
MSVOA_N
ClientSampleId :
TB03-20190916

Tgt Ion: 43 Resp: 1653

Ion Ratio Lower Upper

43 100

72 22.9 19.5 29.3



#29

Tetrahydrofuran

Concen: 0.982 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VN058258.D

Acq: 20 Sep 2019 18:10

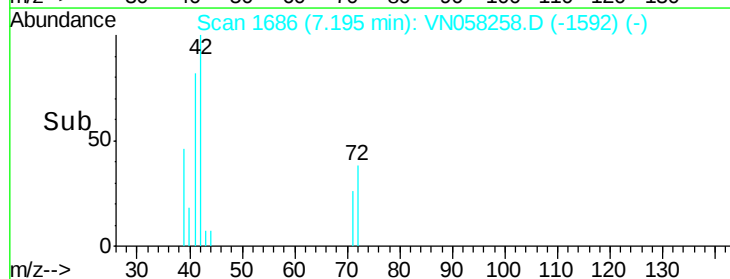
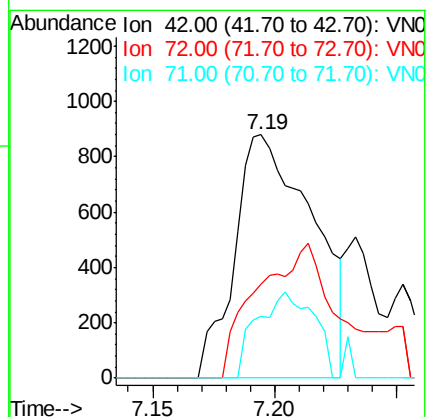
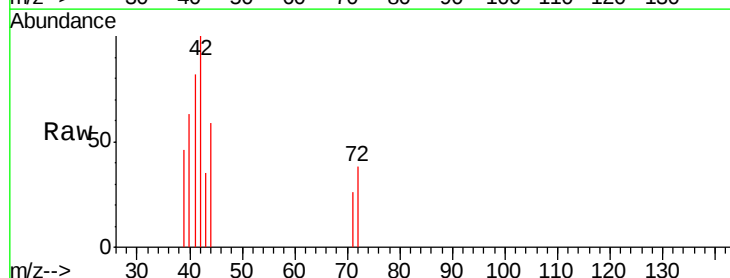
Tgt Ion: 42 Resp: 1959

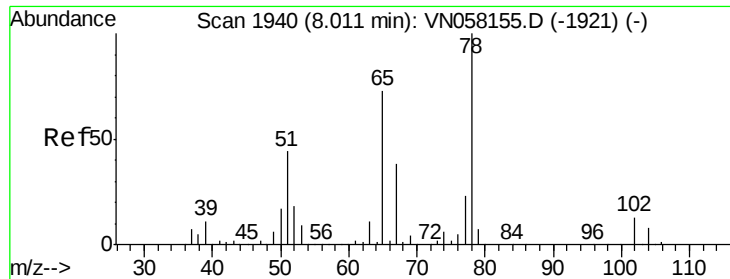
Ion Ratio Lower Upper

42 100

72 0.0 33.8 50.6#

71 25.6 31.4 47.0#

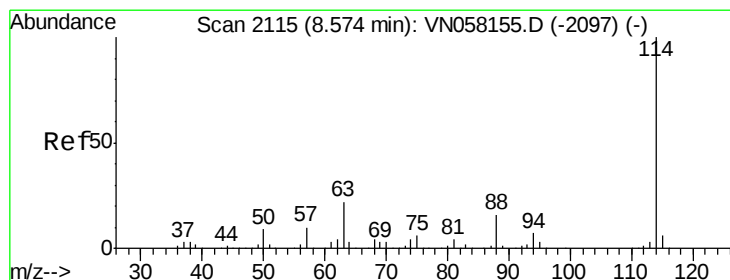
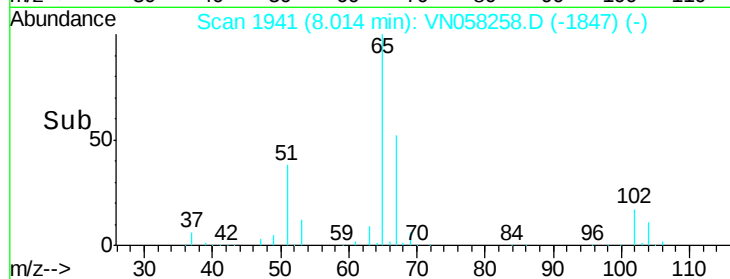
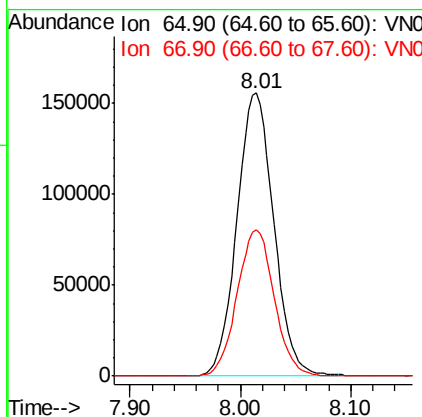
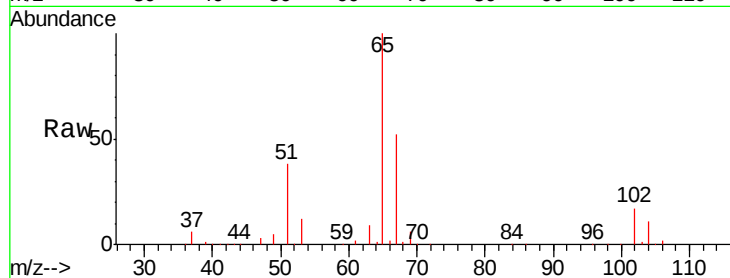




#33
 1,2-Dichloroethane-d4
 Concen: 51.484 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN058258.D
 Acq: 20 Sep 2019 18:10

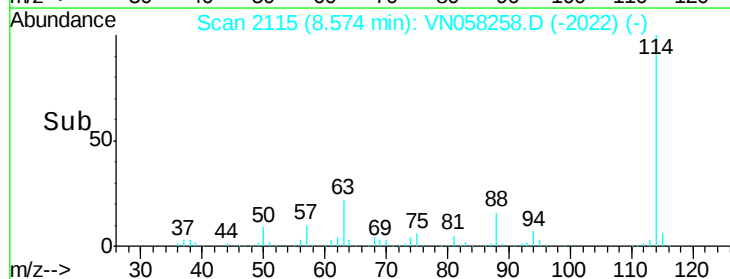
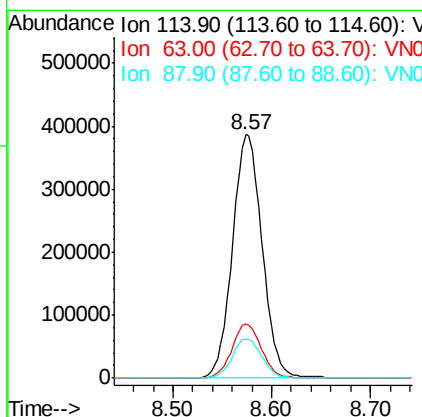
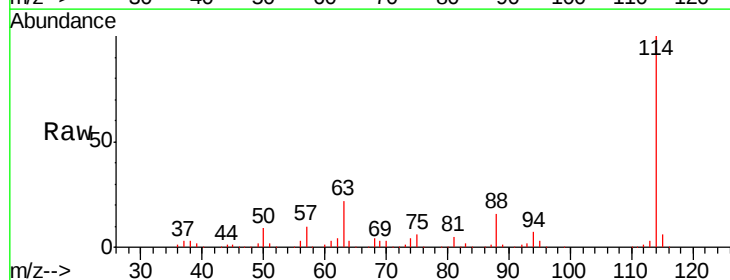
Instrument :
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 TB03-20190916

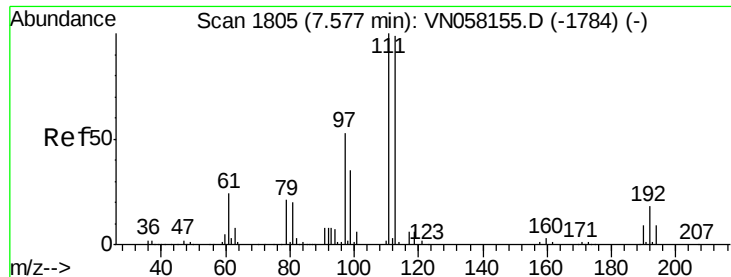
Tgt Ion: 65 Resp: 360608
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058258.D
 Acq: 20 Sep 2019 18:10

Tgt Ion: 114 Resp: 808867
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 44.2
 88 16.2 0.0 31.6

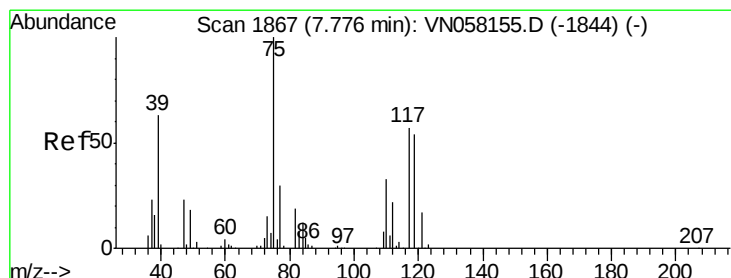
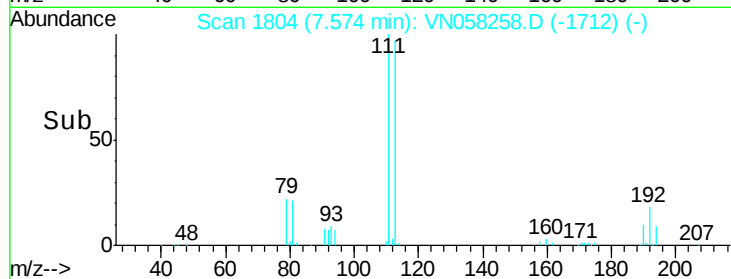
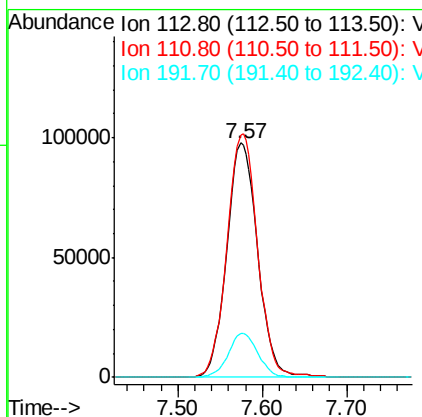
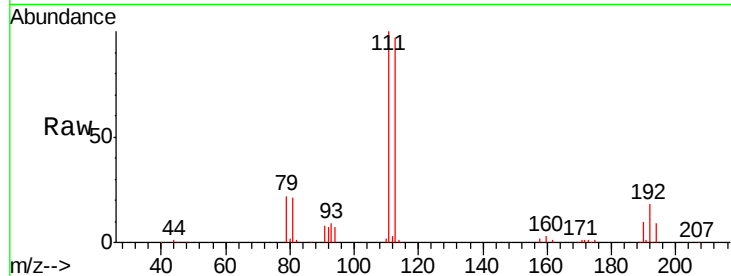




#35
 Dibromofluoromethane
 Concen: 50.706 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VN058258.D
 Acq: 20 Sep 2019 18:10

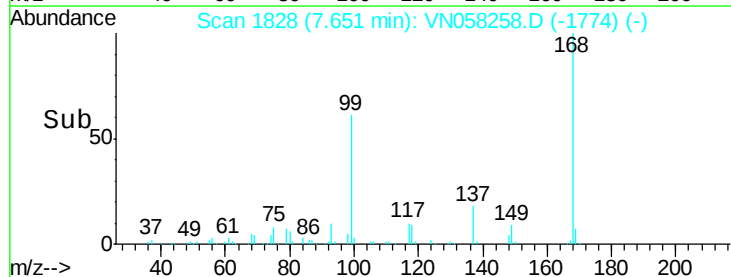
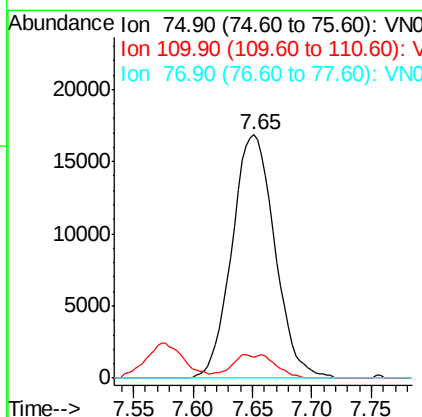
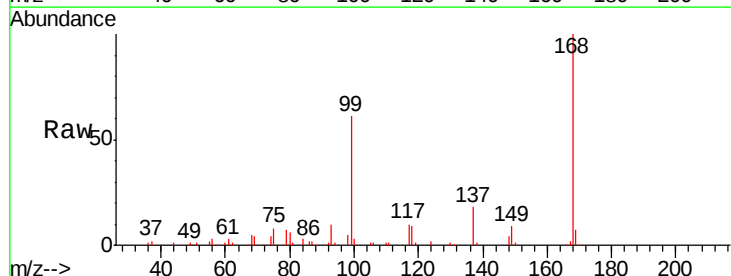
Instrument :
 MSVOA_N
 ClientSampleId :
 TB03-20190916

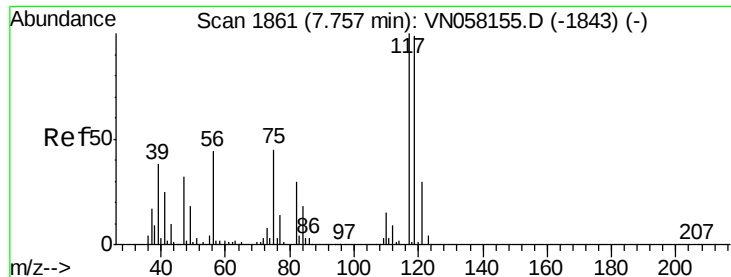
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.8	122.6
192	18.1	14.5	21.7



#36
 1,1-Dichloropropene
 Concen: 7.203 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058258.D
 Acq: 20 Sep 2019 18:10

Tgt Ion	Ratio	Lower	Upper
75	100		
110	3.7	16.6	49.7#
77	0.0	24.3	36.5#





#38

Carbon Tetrachloride

Concen: 8.804 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058258.D

Acq: 20 Sep 2019 18:10

Instrument :

MSVOA_N

ClientSampleId :

TB03-20190916

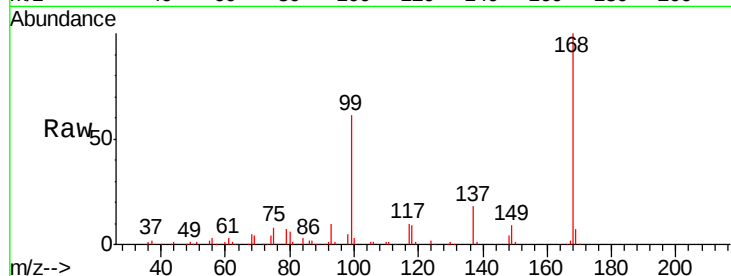
Tgt Ion:117 Resp: 51621

Ion Ratio Lower Upper

117 100

119 5.1 78.6 117.8#

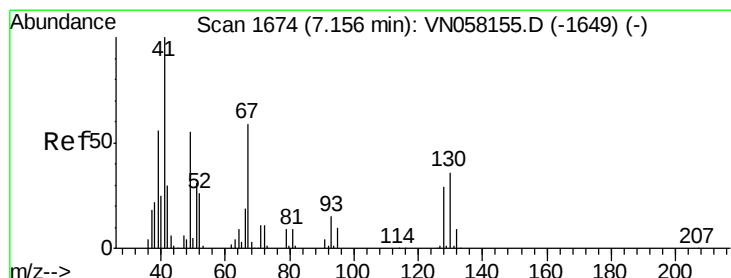
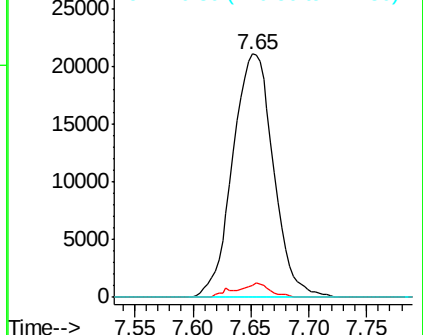
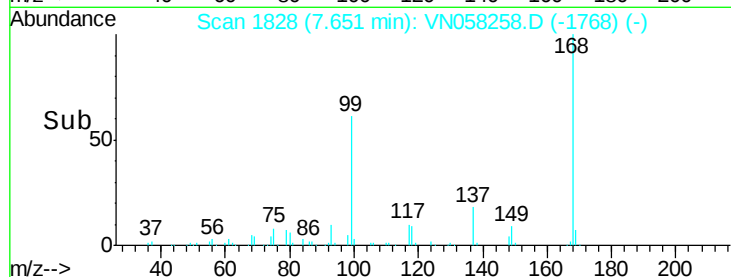
121 0.0 24.1 36.1#



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



#41

Methacrylonitrile

Concen: 0.954 ug/l

RT: 7.17 min Scan# 1677

Delta R.T. 0.01 min

Lab File: VN058258.D

Acq: 20 Sep 2019 18:10

Tgt Ion: 41 Resp: 135

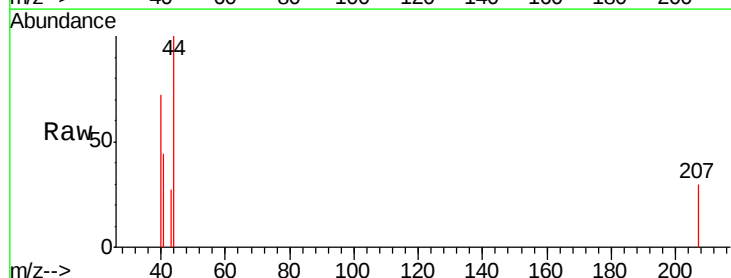
Ion Ratio Lower Upper

41 100

39 51.9 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

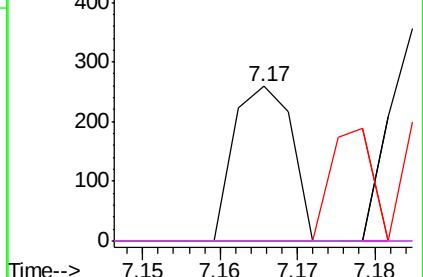
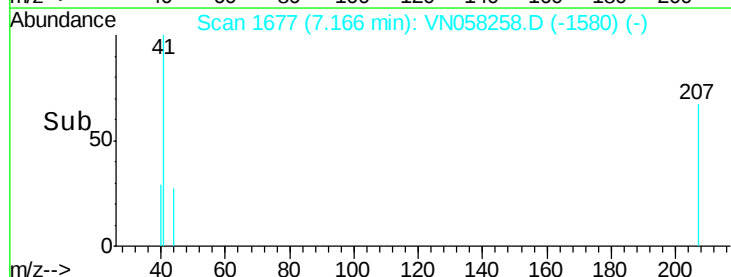


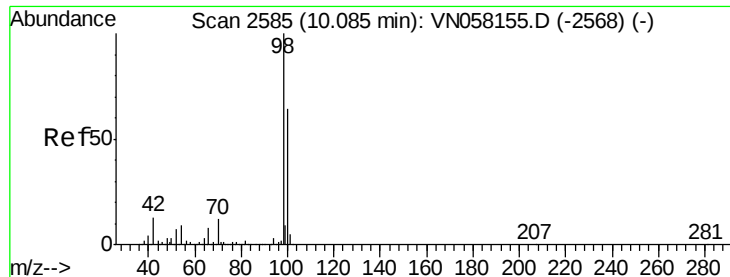
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#50

Toluene-d8

Concen: 53.429 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058258.D

Acq: 20 Sep 2019 18:10

Instrument :

MSVOA_N

ClientSampleId :

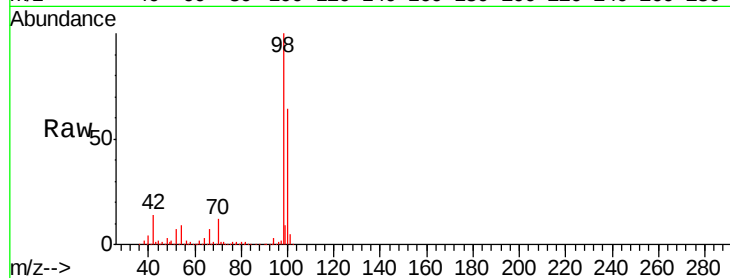
TB03-20190916

Tgt Ion: 98 Resp: 1023627

Ion Ratio Lower Upper

98 100

100 63.1 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

600000

500000

400000

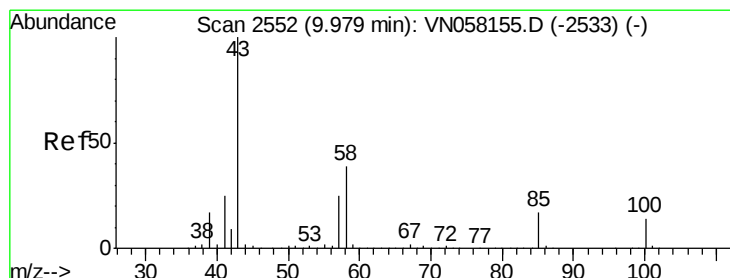
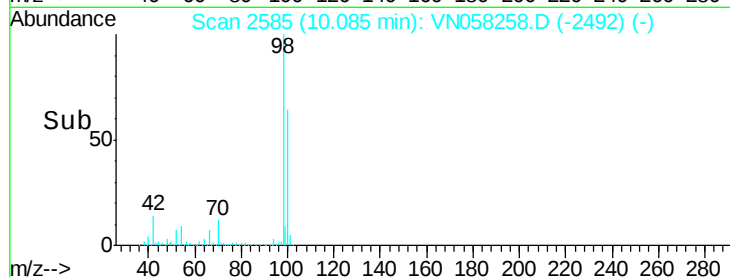
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.209 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058258.D

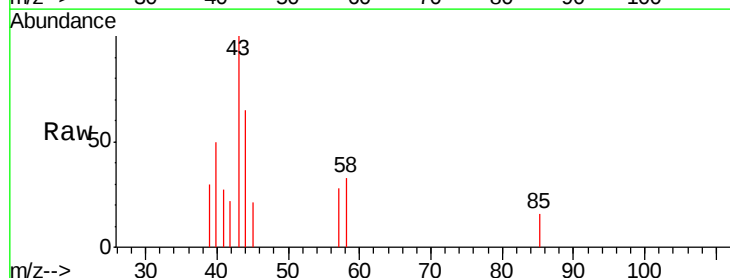
Acq: 20 Sep 2019 18:10

Tgt Ion: 43 Resp: 1256

Ion Ratio Lower Upper

43 100

58 29.2 30.2 45.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.98

1000

800

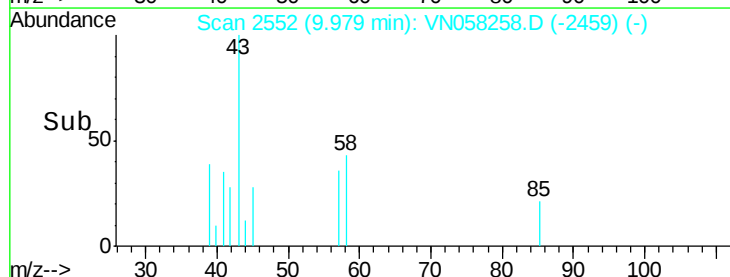
600

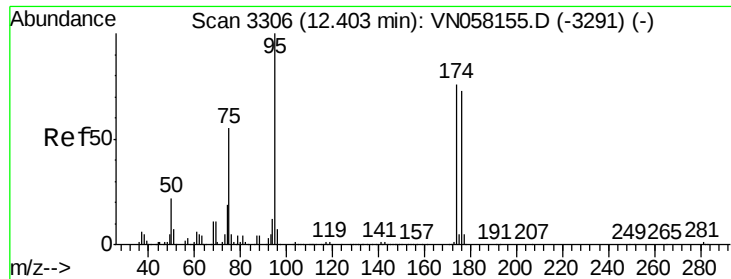
400

200

0

Time-->





#62

4-Bromofluorobenzene

Concen: 45.341 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058258.D

Acq: 20 Sep 2019 18:10

Instrument :

MSVOA_N

ClientSampled :

TB03-20190916

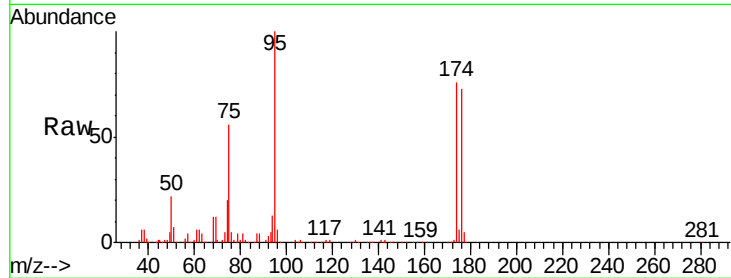
Tgt Ion: 95 Resp: 322675

Ion Ratio Lower Upper

95 100

174 75.7 0.0 152.2

176 72.9 0.0 148.0



Abundance Ion 94.90 (94.60 to 95.60): VN058155.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN058155.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN058155.D (-3291) (-)

12.41

200000

150000

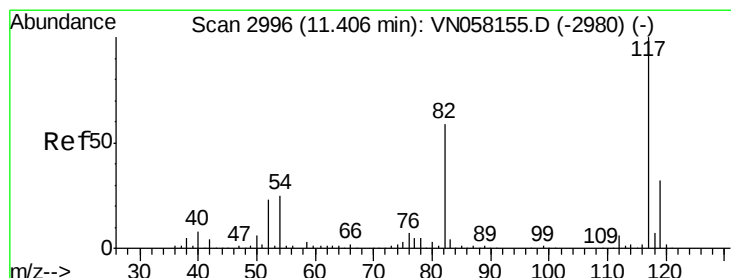
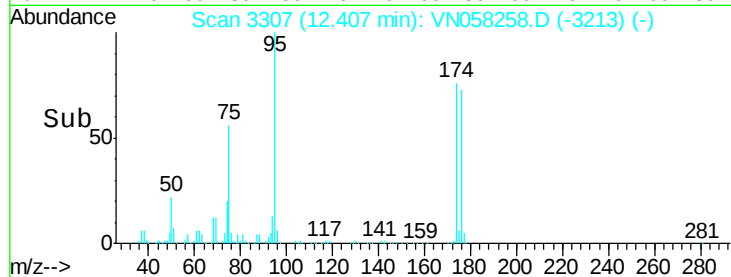
100000

50000

0

12.40 12.50

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058258.D

Acq: 20 Sep 2019 18:10

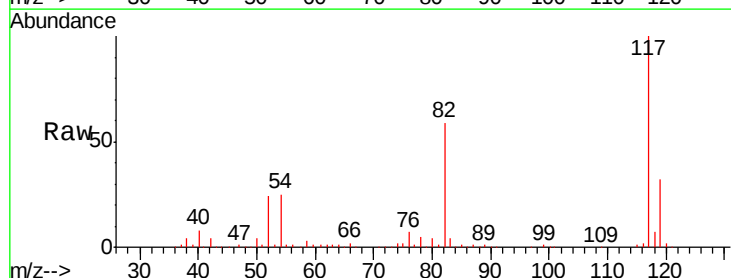
Tgt Ion: 117 Resp: 694361

Ion Ratio Lower Upper

117 100

82 58.6 46.9 70.3

119 32.0 25.3 37.9



Abundance Ion 116.90 (116.60 to 117.60): VN058155.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN058155.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN058155.D (-2980) (-)

11.41

500000

400000

300000

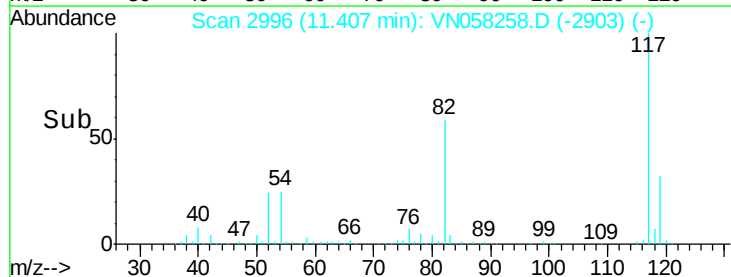
200000

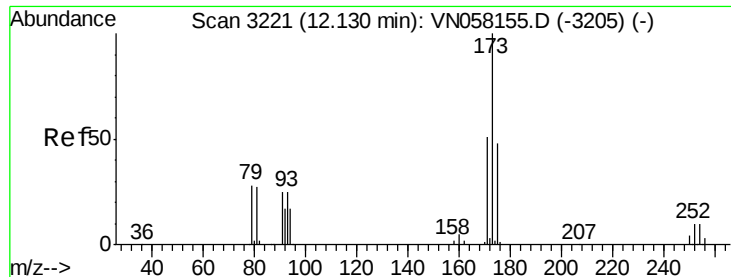
100000

0

11.30 11.40 11.50

Time-->





#71

Bromoform

Concen: 3.624 ug/l

RT: 12.39 min Scan# 3301

Delta R.T. 0.26 min

Lab File: VN058258.D

Acq: 20 Sep 2019 18:10

Instrument :

MSVOA_N

ClientSampled :

TB03-20190916

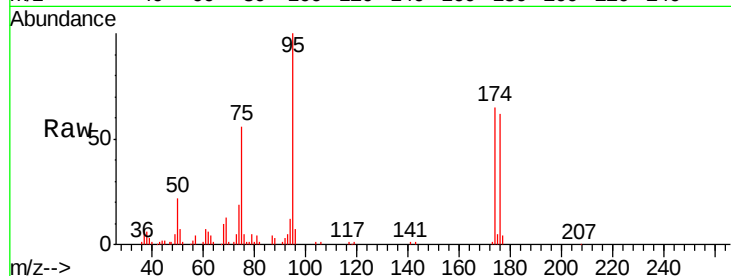
Tgt Ion:173 Resp: 101

Ion Ratio Lower Upper

173 100

175 0.0 24.2 72.6#

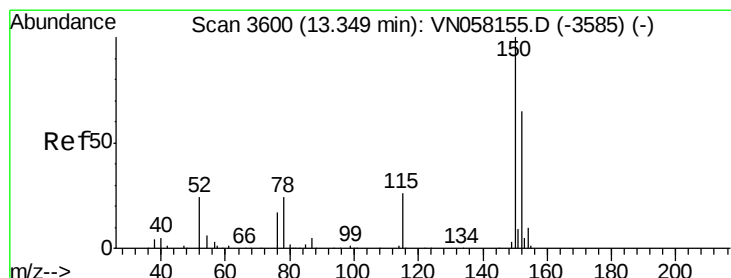
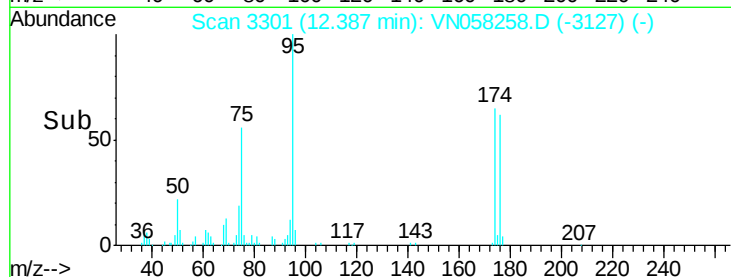
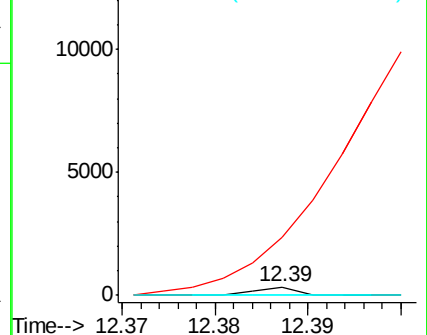
254 0.0 0.1 0.1#



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: VN058258.D

Acq: 20 Sep 2019 18:10

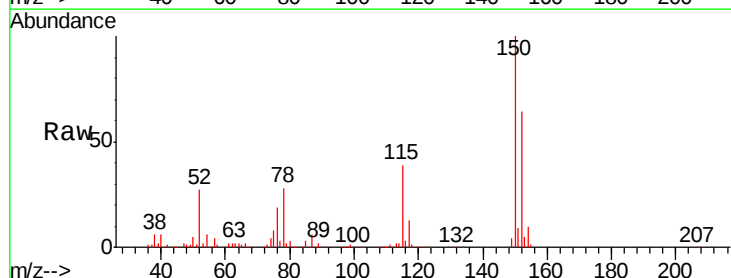
Tgt Ion:152 Resp: 283160

Ion Ratio Lower Upper

152 100

115 60.1 30.1 90.3

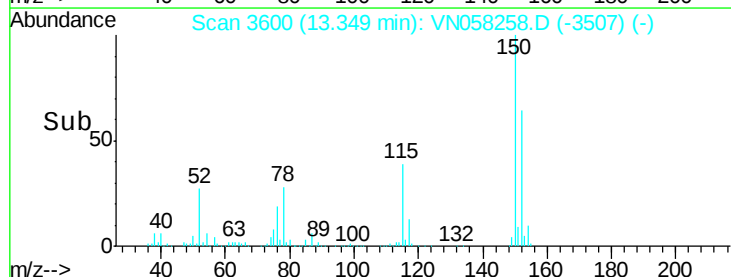
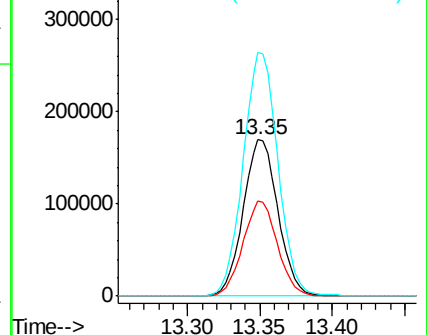
150 156.0 0.0 346.4

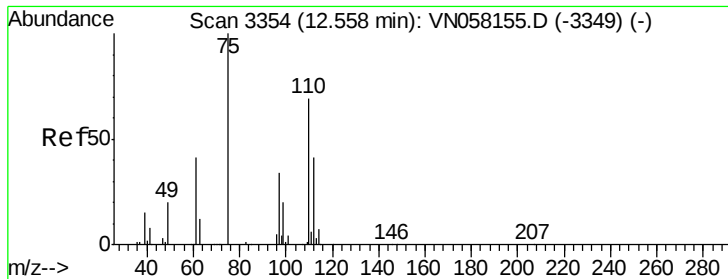


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 35.551 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058258.D

Acq: 20 Sep 2019 18:10

Instrument :

MSVOA_N

ClientSampleId :

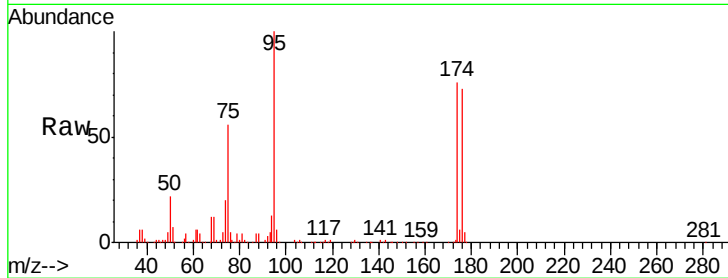
TB03-20190916

Tgt Ion: 75 Resp: 180160

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

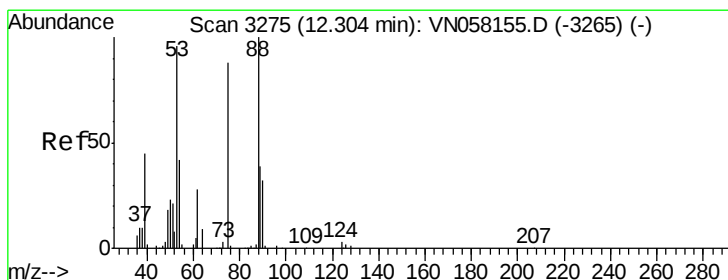
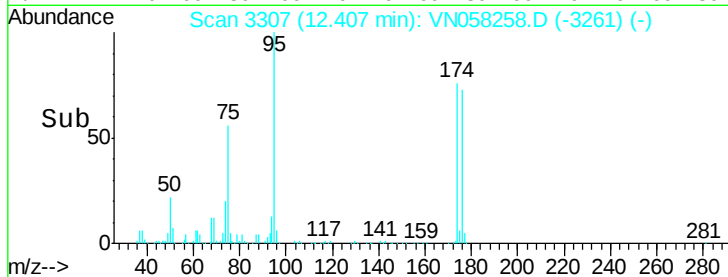
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 99.357 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058258.D

Acq: 20 Sep 2019 18:10

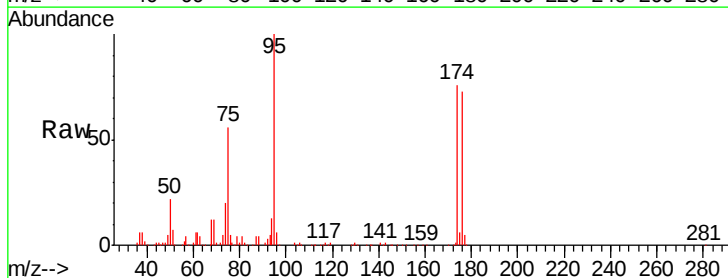
Tgt Ion: 75 Resp: 180160

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

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

12.41

100000

50000

0

Time-->

