

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN092019\
 Data File : VN058257.D
 Acq On : 20 Sep 2019 17:48
 Operator : JC/SP
 Sample : K4974-05DL 5X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE132D4-20190916DL

Quant Time: Sep 20 23:52:04 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	481227	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	779114	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	664324	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	261839	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	353409	52.73	ug/l	0.00
Spiked Amount			Recovery	=	105.46%	
35) Dibromofluoromethane	7.57	113	241103	50.90	ug/l	0.00
Spiked Amount			Recovery	=	101.80%	
50) Toluene-d8	10.09	98	987338	53.50	ug/l	0.00
Spiked Amount			Recovery	=	107.00%	
62) 4-Bromofluorobenzene	12.41	95	311833	45.49	ug/l	0.00
Spiked Amount			Recovery	=	90.98%	

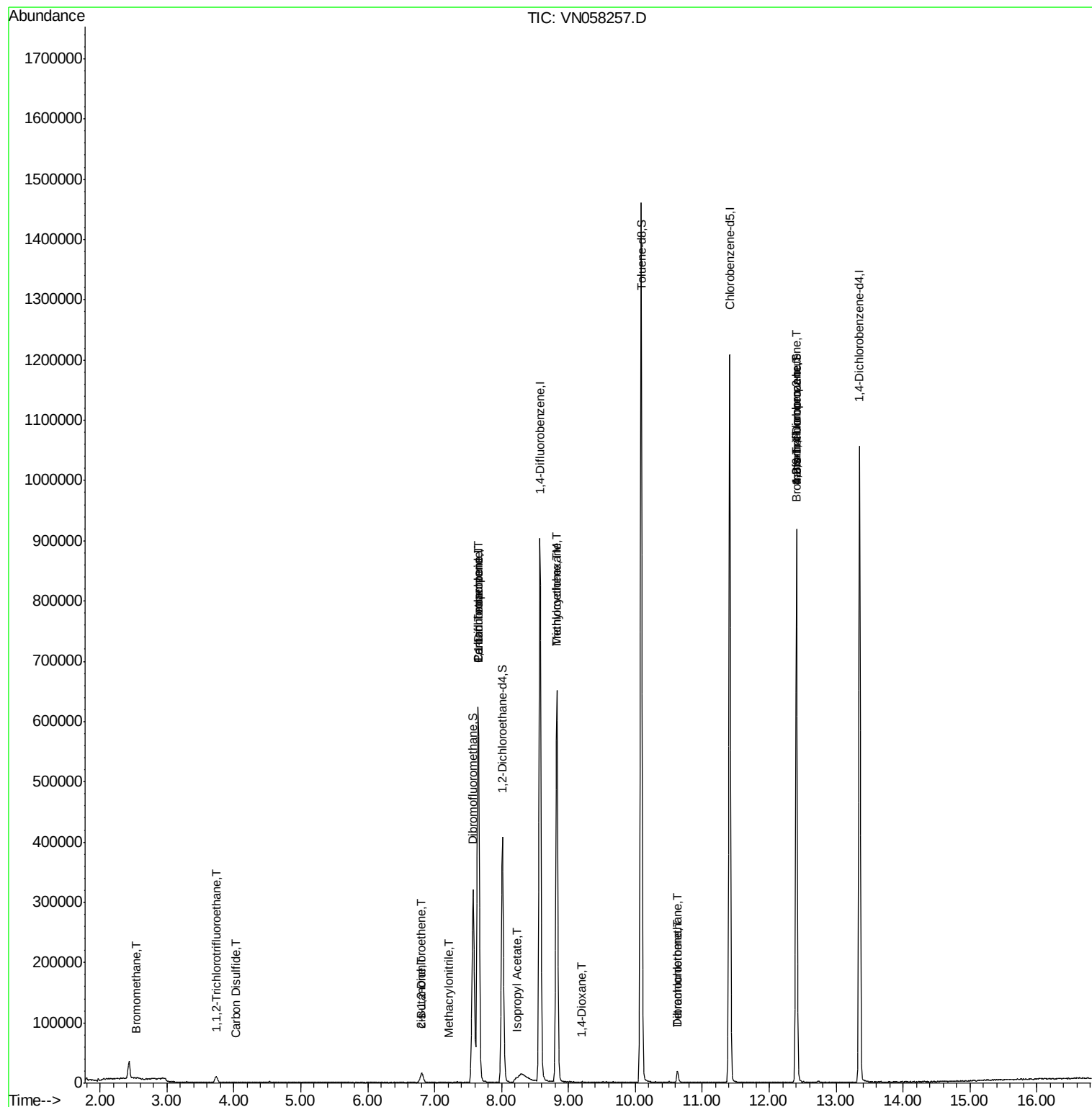
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	417	Below Cal	#	42
4) Vinyl Chloride	2.17	62	67	Below Cal	#	1
5) Bromomethane	2.54	94	67	0.760	ug/l #	4
6) Chloroethane	2.69	64	64	Below Cal	#	44
9) 1,1,2-Trichlorotrifluoroet	3.74	101	6247	1.606	ug/l	98
12) 1,1-Dichloroethene	3.71	96	405	Below Cal	#	30
17) Carbon Disulfide	4.02	76	248	0.330	ug/l #	74
20) Methylene Chloride	4.53	84	77	Below Cal	#	1
25) 2-Butanone	6.80	43	645	0.208	ug/l #	51
27) cis-1,2-Dichloroethene	6.81	96	1169	0.240	ug/l #	1
31) Cyclohexane	7.65	56	11827	Below Cal	#	25
36) 1,1-Dichloropropene	7.65	75	41323	7.355	ug/l #	51
38) Carbon Tetrachloride	7.65	117	50274	8.901	ug/l #	15
39) Methylcyclohexane	8.82	83	3019	0.626	ug/l #	1
41) Methacrylonitrile	7.22	41	29	0.921	ug/l #	100
43) Isopropyl Acetate	8.23	43	7375	0.677	ug/l #	57
44) Trichloroethene	8.83	130	228678	54.453	ug/l	98
49) 1,4-Dioxane	9.19	88	147	1.811	ug/l #	1
60) Dibromochloromethane	10.63	129	3903	0.850	ug/l #	11
64) Tetrachloroethene	10.63	164	3917	1.210	ug/l	94
71) Bromoform	12.39	173	193	3.652	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	170403	36.364	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	170403	101.496	ug/l #	5

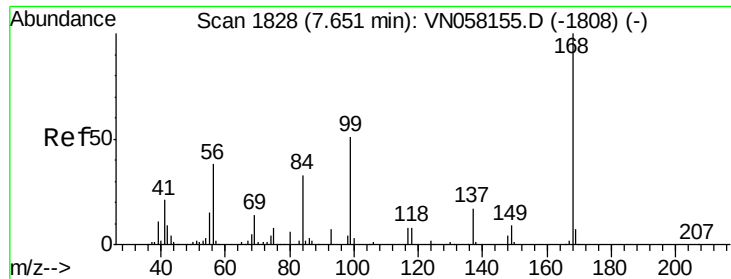
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Sep 19 09:27:53 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058257.D

Acq: 20 Sep 2019 17:48

Instrument :

MSVOA_N

ClientSampleId :

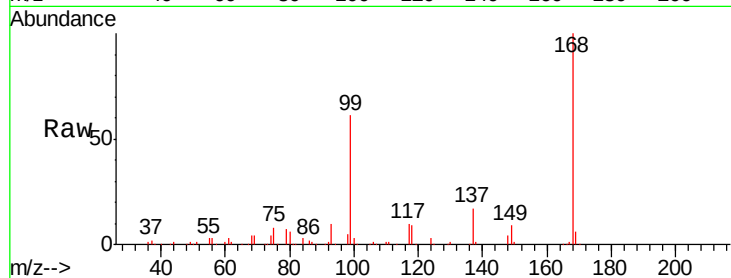
RE132D4-20190916DL

Tgt Ion:168 Resp: 481227

Ion Ratio Lower Upper

168 100

99 60.7 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

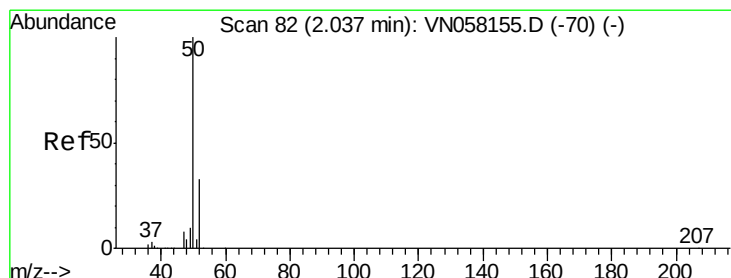
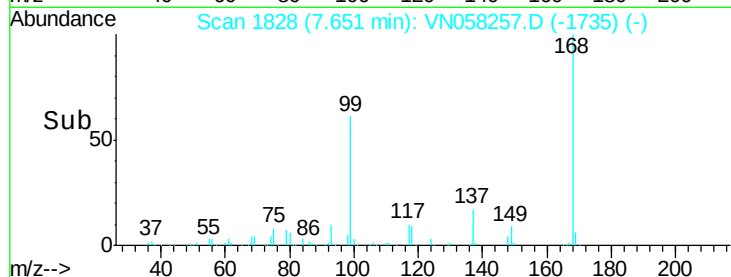
100000

50000

0

7.60 7.70

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN058257.D

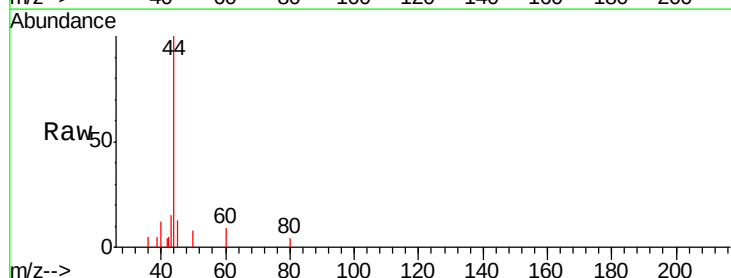
Acq: 20 Sep 2019 17:48

Tgt Ion: 50 Resp: 417

Ion Ratio Lower Upper

50 100

52 0.0 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

300

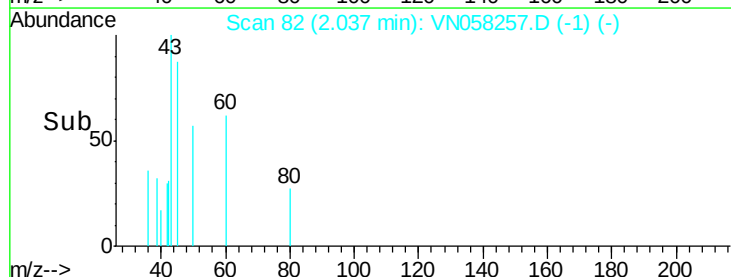
200

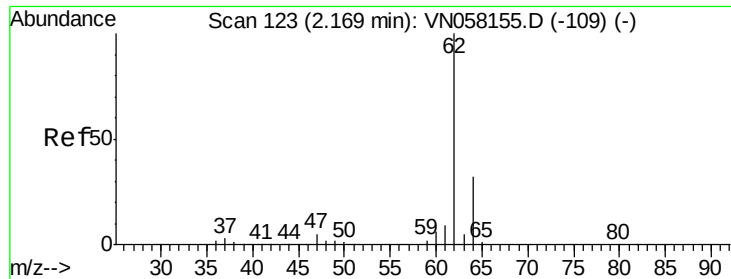
100

0

2.00 2.02 2.04 2.06

Time-->





#4

Vinyl Chloride

Concen: Below Cal

RT: 2.17 min Scan# 122

Delta R.T. -0.00 min

Lab File: VN058257.D

Acq: 20 Sep 2019 17:48

Instrument :

MSVOA_N

ClientSampleId :

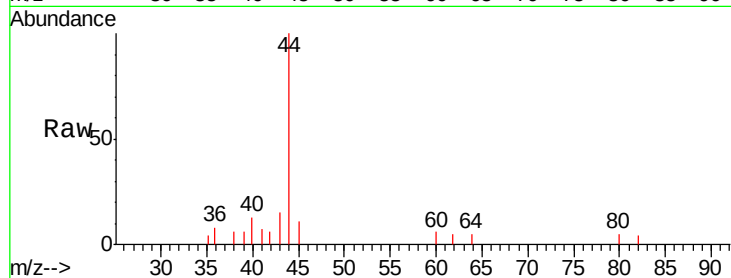
RE132D4-20190916DL

Tgt Ion: 62 Resp: 67

Ion Ratio Lower Upper

62 100

64 96.4 25.4 38.2#



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

2.17

200

150

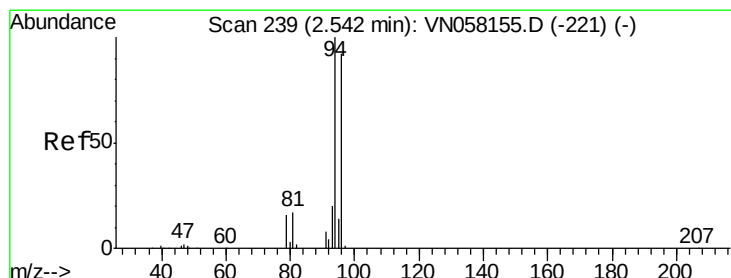
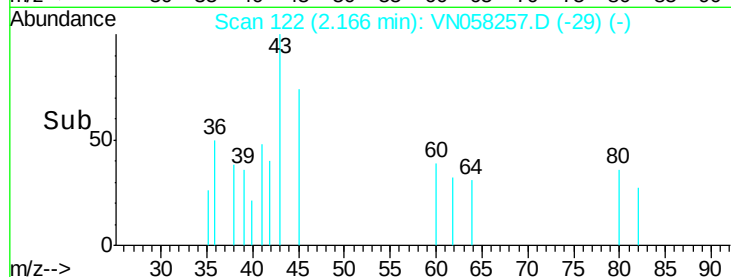
100

50

0

2.16 2.17 2.18

Time-->



#5

Bromomethane

Concen: 0.760 ug/l

RT: 2.54 min Scan# 239

Delta R.T. 0.00 min

Lab File: VN058257.D

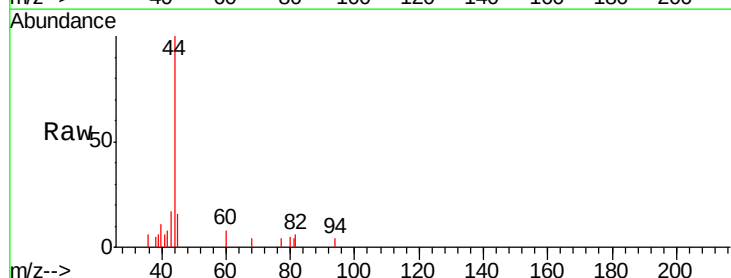
Acq: 20 Sep 2019 17:48

Tgt Ion: 94 Resp: 67

Ion Ratio Lower Upper

94 100

96 0.0 73.3 109.9#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.54

200

150

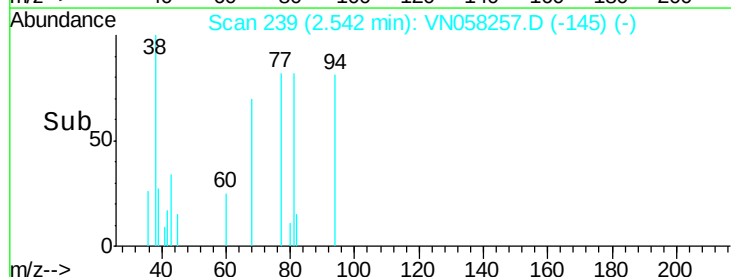
100

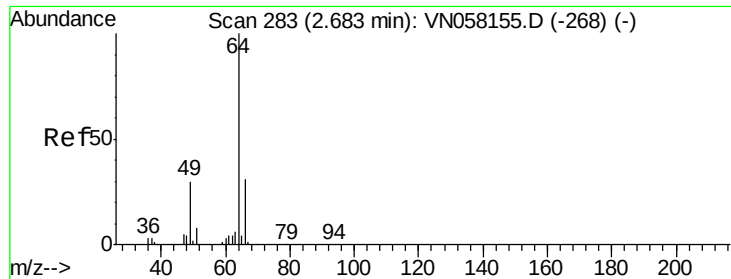
50

0

2.53 2.54 2.54 2.54

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 2.69 min Scan# 284

Delta R.T. 0.00 min

Lab File: VN058257.D

Acq: 20 Sep 2019 17:48

Instrument :

MSVOA_N

ClientSampleId :

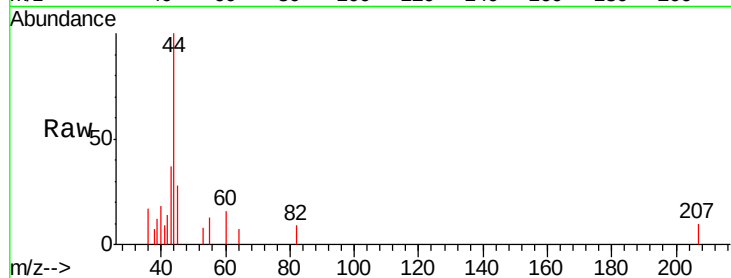
RE132D4-20190916DL

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

2.69

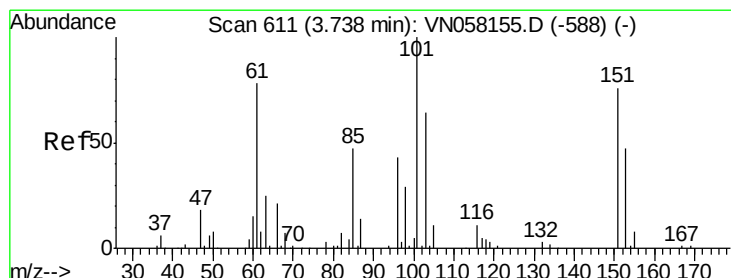
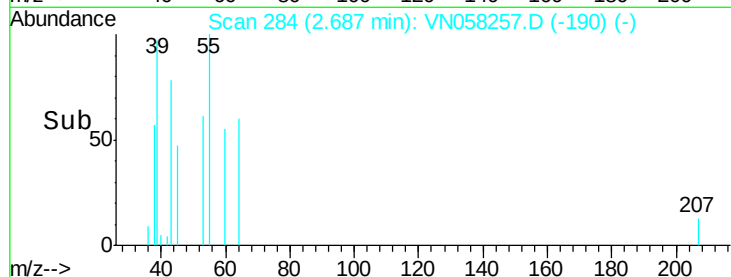
150

100

50

0

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.606 ug/l

RT: 3.74 min Scan# 612

Delta R.T. 0.00 min

Lab File: VN058257.D

Acq: 20 Sep 2019 17:48

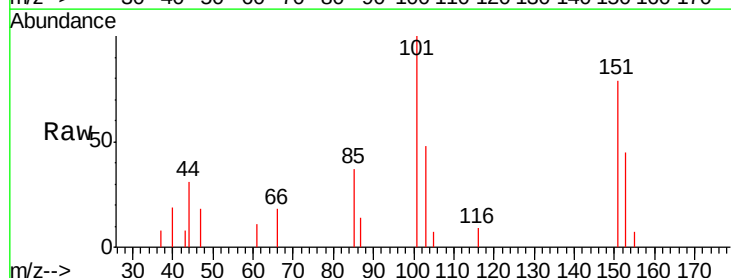
Tgt Ion: 101 Resp: 6247

Ion Ratio Lower Upper

101 100

85 44.0 37.3 55.9

151 75.8 59.6 89.4



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN0

Ion 150.80 (150.50 to 151.50): V

3.74

3000

2500

2000

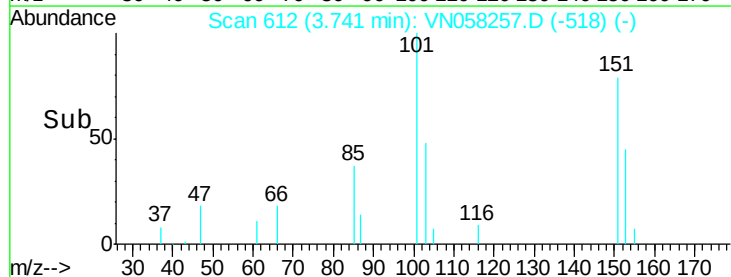
1500

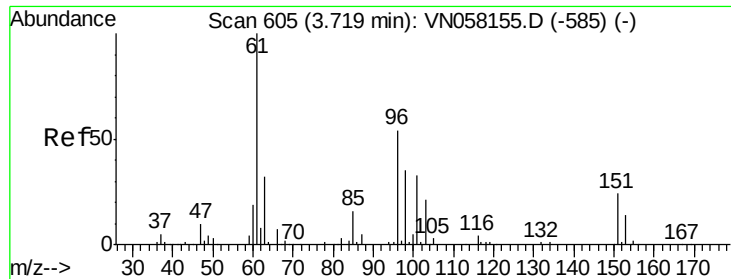
1000

500

0

Time-->





#12

1,1-Dichloroethene

Concen: Below Cal

RT: 3.71 min Scan# 603

Delta R.T. -0.01 min

Lab File: VN058257.D

Acq: 20 Sep 2019 17:48

Instrument :

MSVOA_N

ClientSampleId :

RE132D4-20190916DL

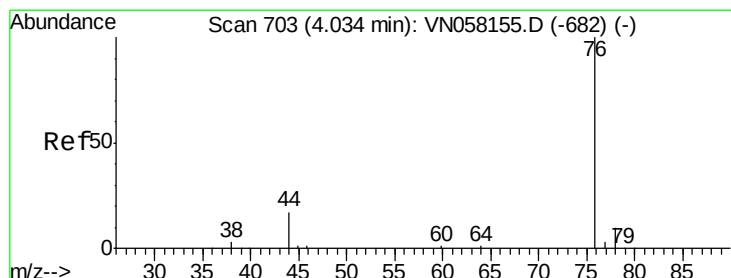
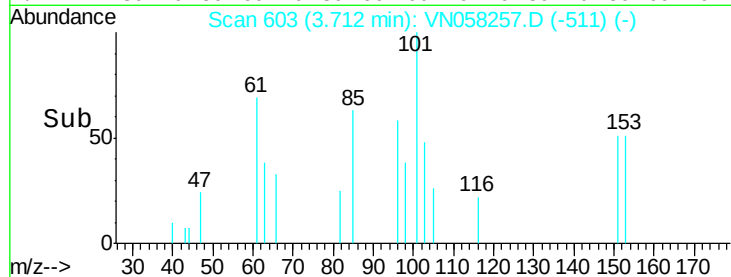
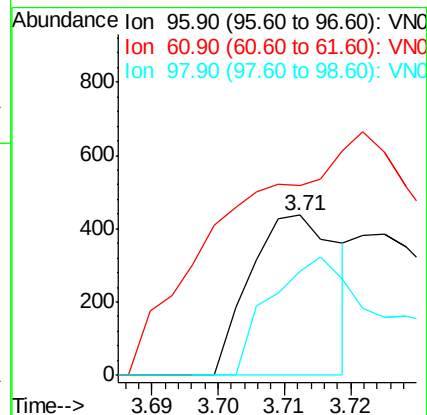
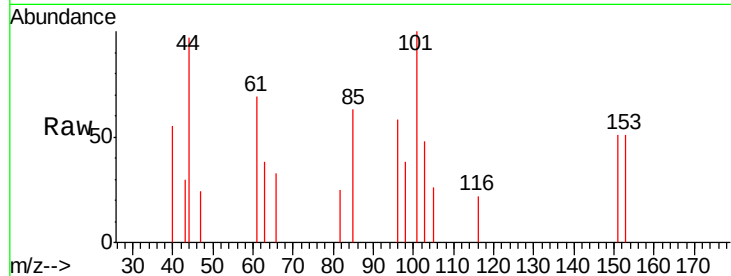
Tgt Ion: 96 Resp: 405

Ion Ratio Lower Upper

96 100

61 49.2 149.5 224.3#

98 65.0 52.4 78.6



#17

Carbon Disulfide

Concen: 0.330 ug/l

RT: 4.02 min Scan# 700

Delta R.T. -0.01 min

Lab File: VN058257.D

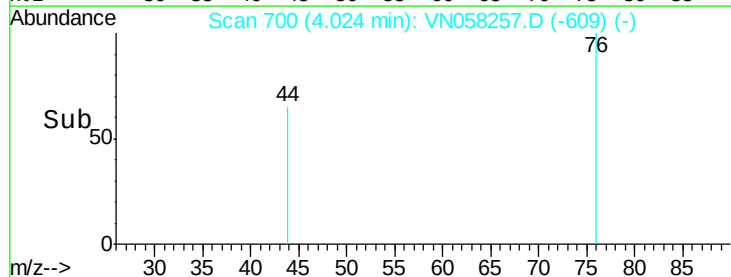
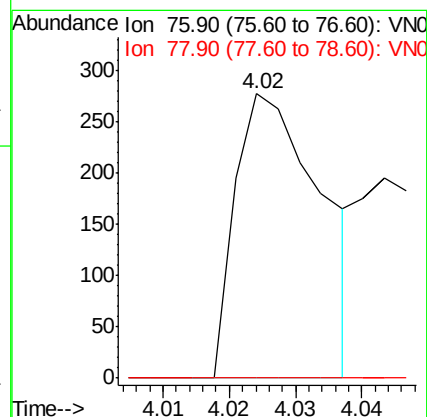
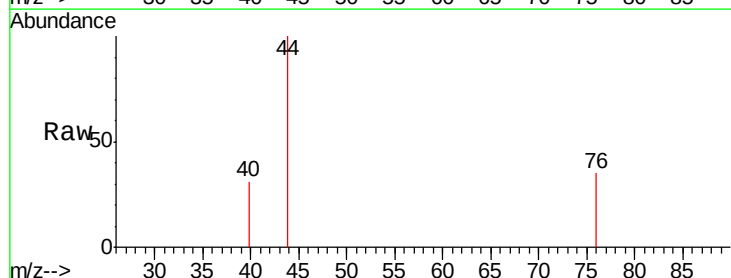
Acq: 20 Sep 2019 17:48

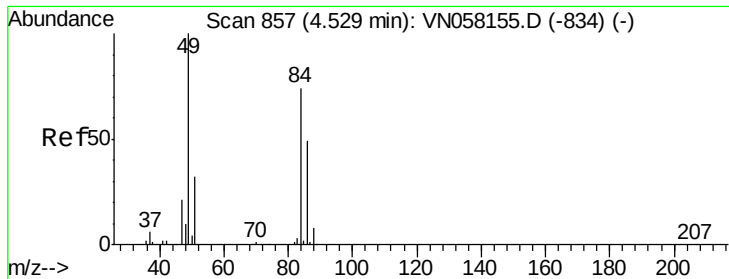
Tgt Ion: 76 Resp: 248

Ion Ratio Lower Upper

76 100

78 0.0 7.7 11.5#





#20

Methylene Chloride

Concen: Below Cal

RT: 4.53 min Scan# 858

Delta R.T. 0.00 min

Lab File: VN058257.D

Acq: 20 Sep 2019 17:48

Instrument :

MSVOA_N

ClientSampleId :

RE132D4-20190916DL

Tgt Ion: 84 Resp: 77

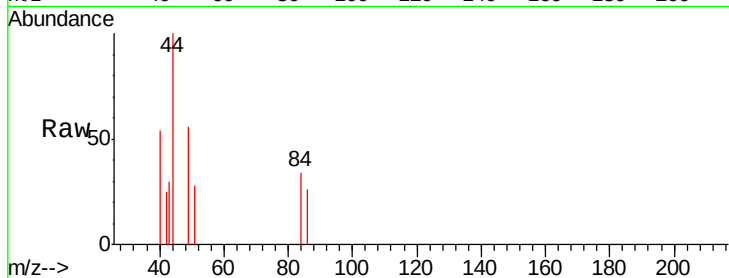
Ion Ratio Lower Upper

84 100

49 36.6 107.5 161.3#

51 215.1 33.9 50.9#

86 205.4 52.4 78.6#

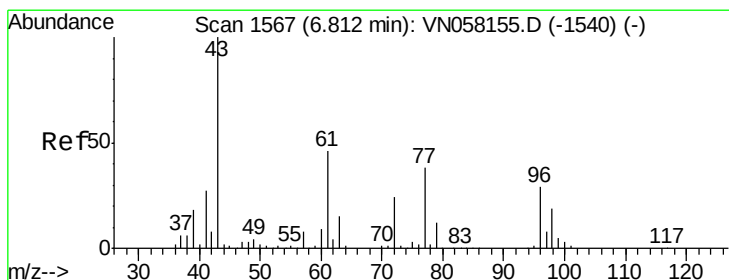
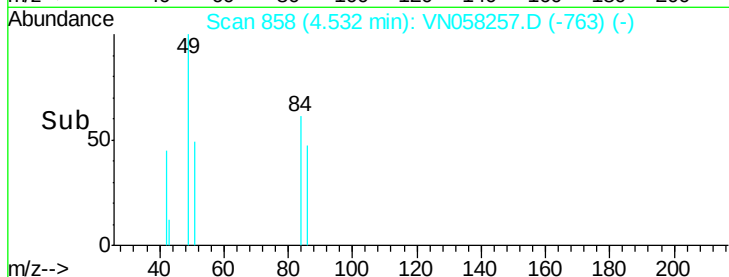
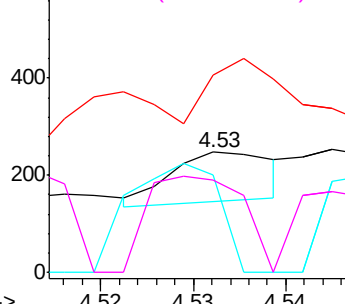


Abundance Ion 83.90 (83.60 to 84.60): VN0

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: 0.208 ug/l

RT: 6.80 min Scan# 1562

Delta R.T. -0.02 min

Lab File: VN058257.D

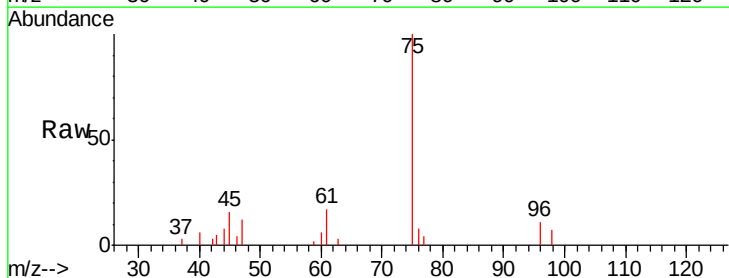
Acq: 20 Sep 2019 17:48

Tgt Ion: 43 Resp: 645

Ion Ratio Lower Upper

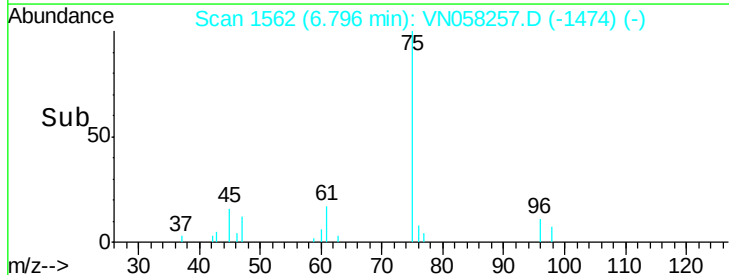
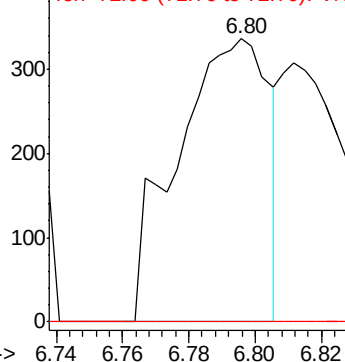
43 100

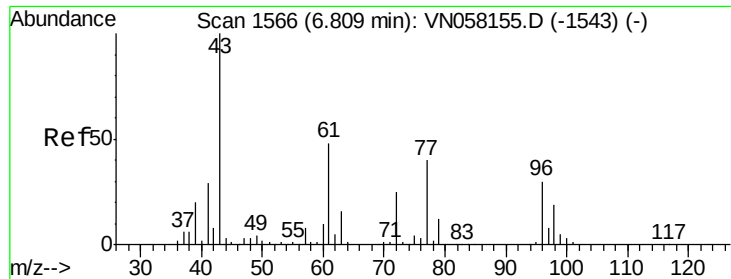
72 0.0 19.5 29.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#27

cis-1,2-Dichloroethene

Concen: 0.240 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. -0.00 min

Lab File: VN058257.D

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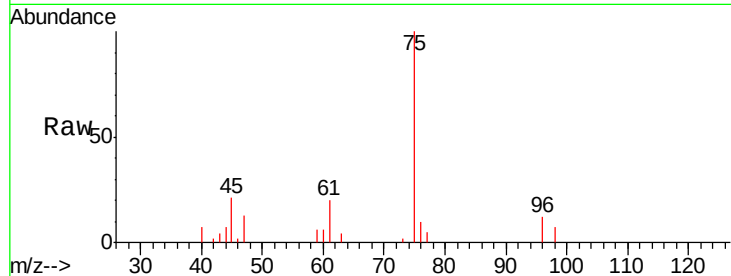
Tgt Ion: 96 Resp: 1169

Ion Ratio Lower Upper

96 100

61 382.5 0.0 319.0#

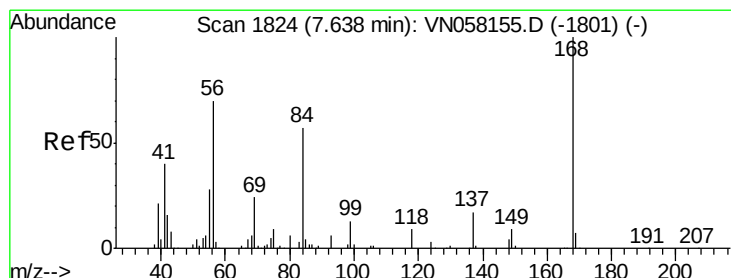
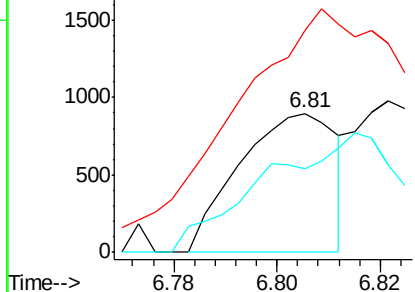
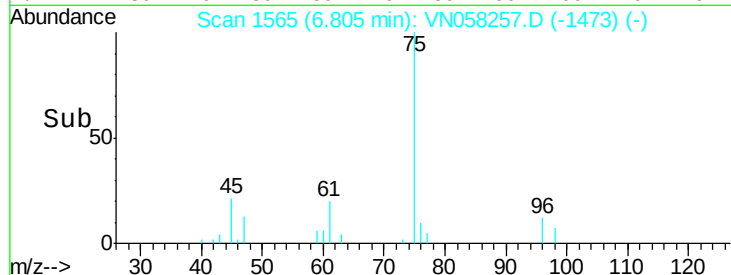
98 0.0 0.0 126.6



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN058257.D

Acq: 20 Sep 2019 17:48

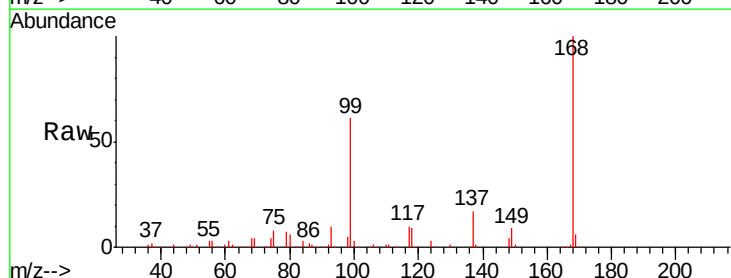
Tgt Ion: 56 Resp: 11827

Ion Ratio Lower Upper

56 100

69 142.7 27.3 40.9#

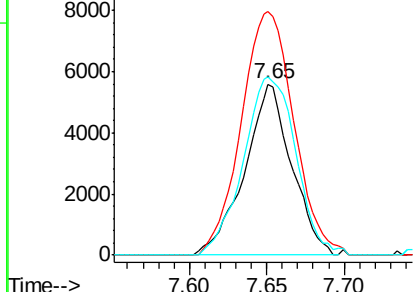
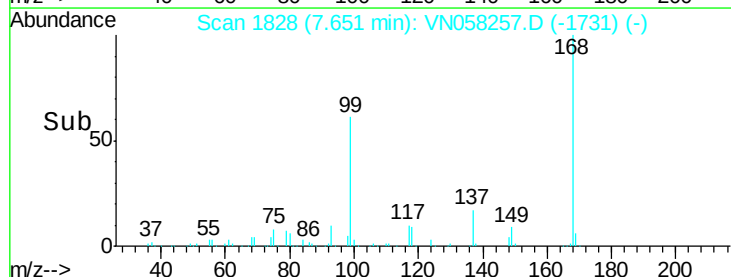
84 104.9 65.0 97.4#

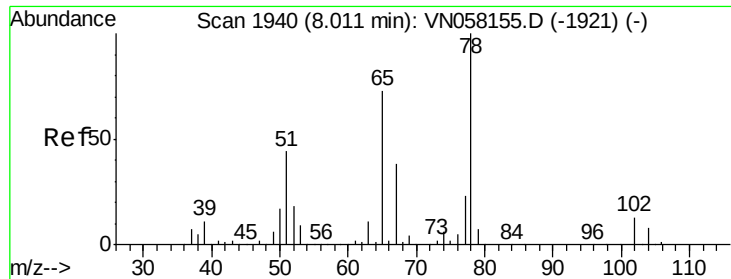


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

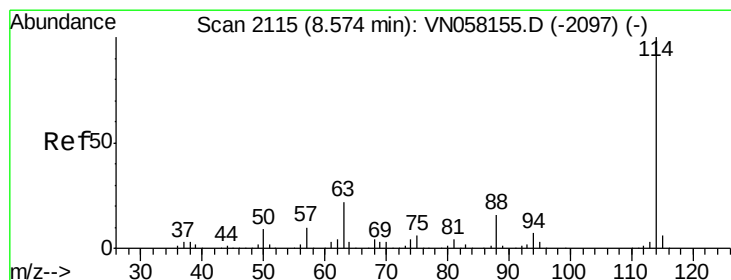
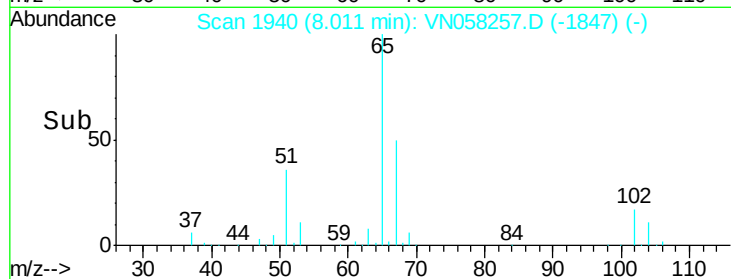
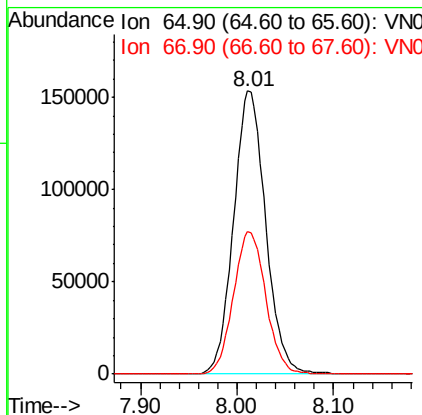
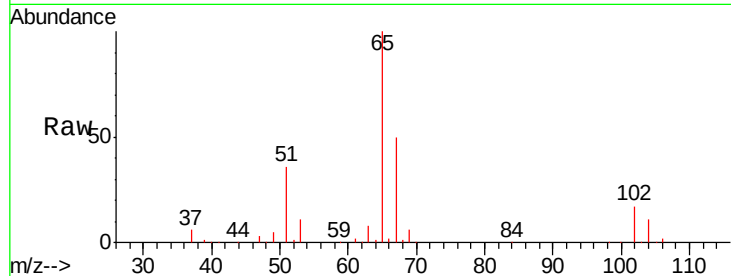




#33
 1,2-Dichloroethane-d4
 Concen: 52.728 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058257.D
 Acq: 20 Sep 2019 17:48

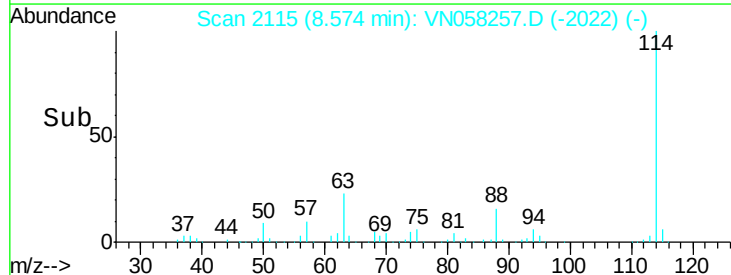
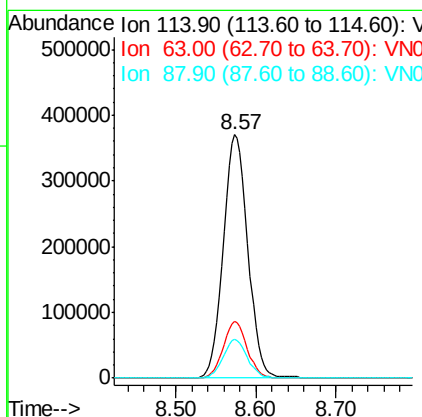
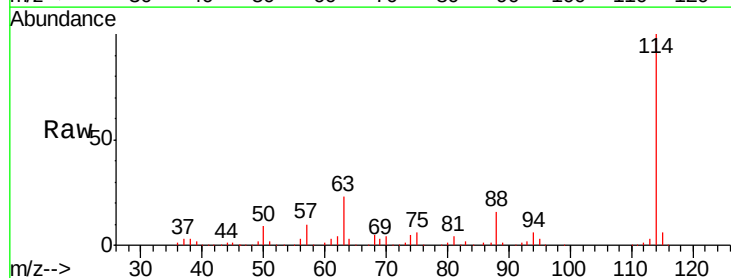
Instrument :
 MSVOA_N
 ClientSampleId :
 RE132D4-20190916DL

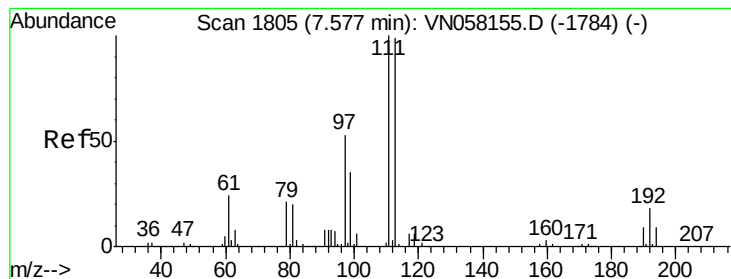
Tgt Ion: 65 Resp: 353409
 Ion Ratio Lower Upper
 65 100
 67 50.7 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058257.D
 Acq: 20 Sep 2019 17:48

Tgt Ion: 114 Resp: 779114
 Ion Ratio Lower Upper
 114 100
 63 23.0 0.0 44.2
 88 15.7 0.0 31.6





#35

Dibromofluoromethane

Concen: 50.905 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. -0.00 min

Lab File: VN058257.D

Acq: 20 Sep 2019 17:48

Instrument :

MSVOA_N

ClientSampleId :

RE132D4-20190916DL

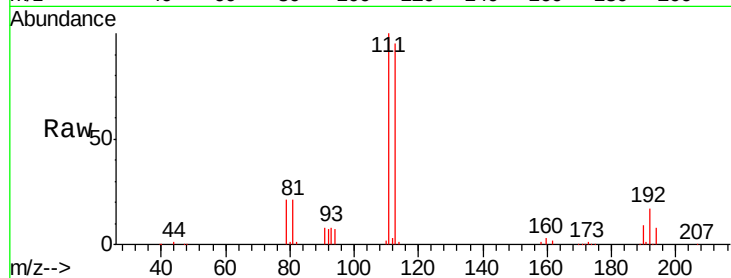
Tgt Ion:113 Resp: 241103

Ion Ratio Lower Upper

113 100

111 103.1 81.8 122.6

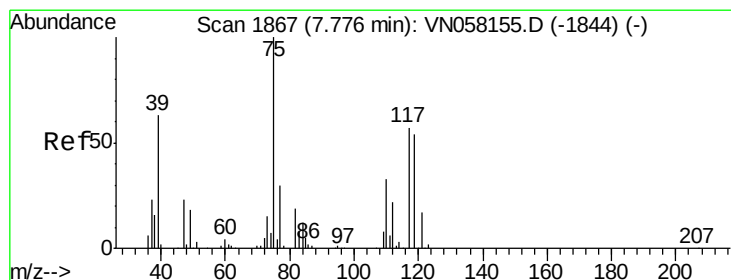
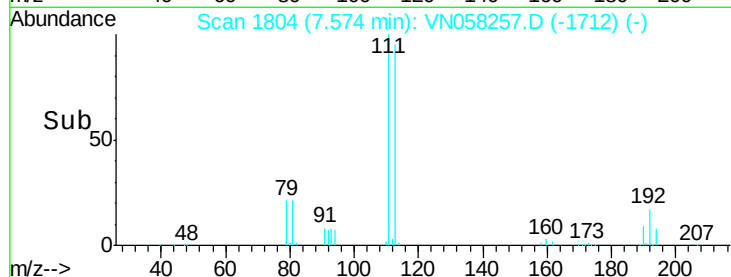
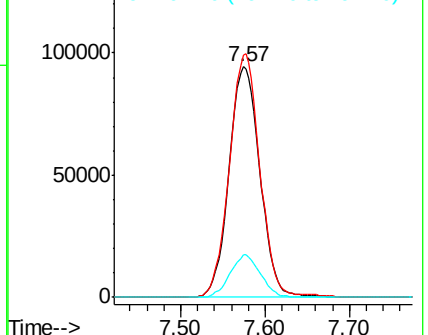
192 18.1 14.5 21.7



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 7.355 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.13 min

Lab File: VN058257.D

Acq: 20 Sep 2019 17:48

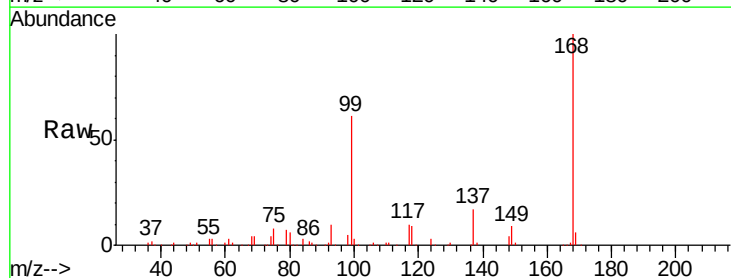
Tgt Ion: 75 Resp: 41323

Ion Ratio Lower Upper

75 100

110 9.3 16.6 49.7#

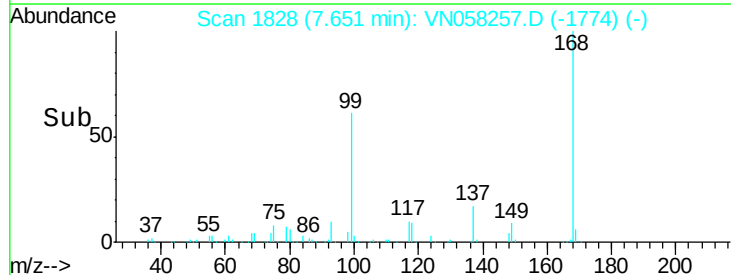
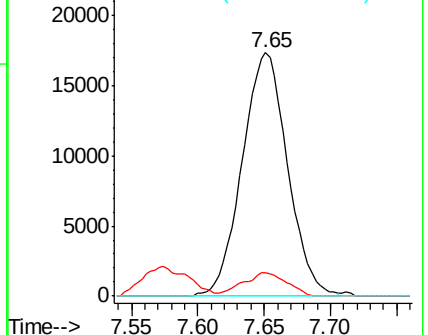
77 0.0 24.3 36.5#

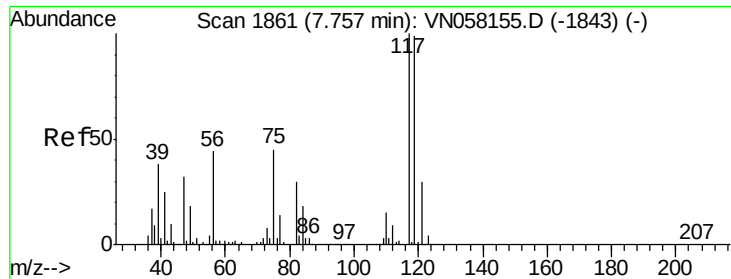


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VNO





#38

Carbon Tetrachloride

Concen: 8.901 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058257.D

Acq: 20 Sep 2019 17:48

Instrument :

MSVOA_N

ClientSampleId :

RE132D4-20190916DL

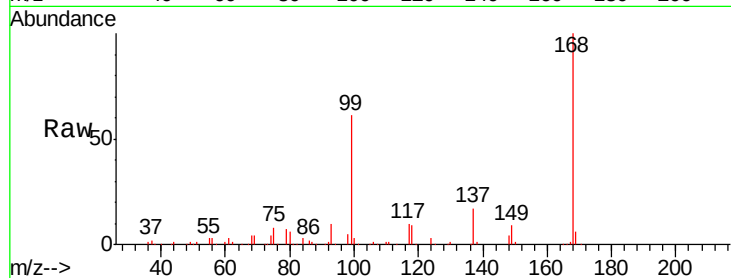
Tgt Ion:117 Resp: 50274

Ion Ratio Lower Upper

117 100

119 4.8 78.6 117.8#

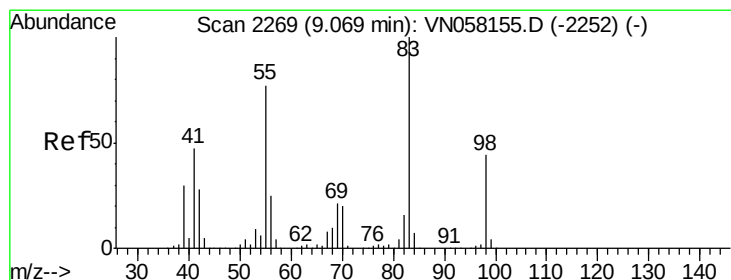
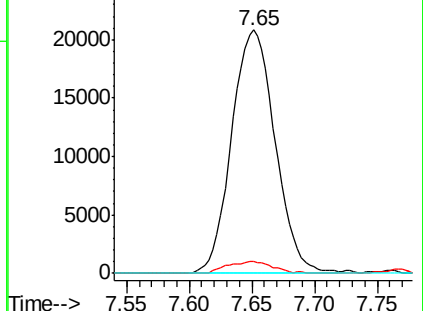
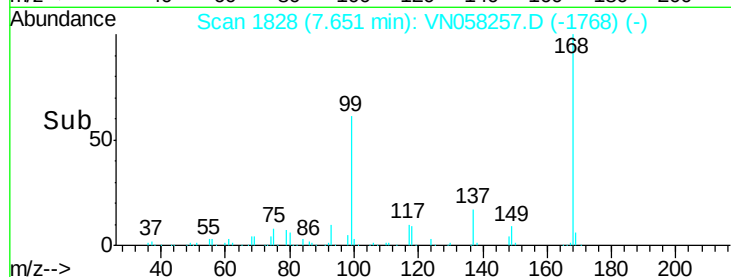
121 0.0 24.1 36.1#



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



#39

Methylcyclohexane

Concen: 0.626 ug/l

RT: 8.82 min Scan# 2191

Delta R.T. -0.25 min

Lab File: VN058257.D

Acq: 20 Sep 2019 17:48

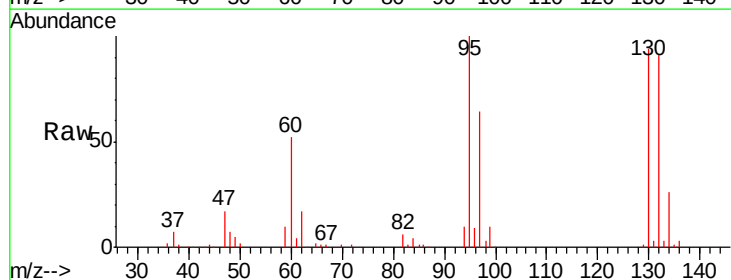
Tgt Ion: 83 Resp: 3019

Ion Ratio Lower Upper

83 100

55 0.0 61.9 92.9#

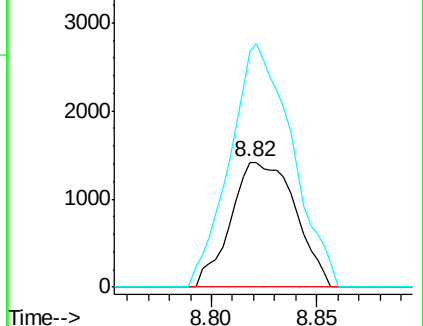
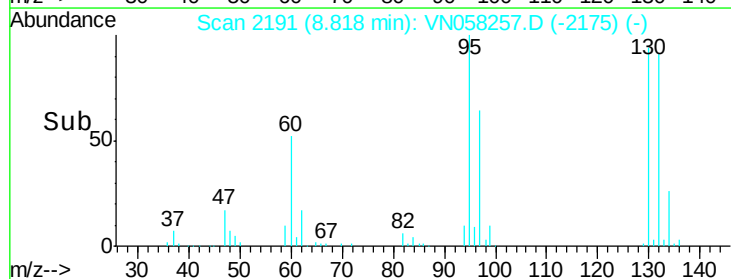
98 188.5 35.4 53.2#

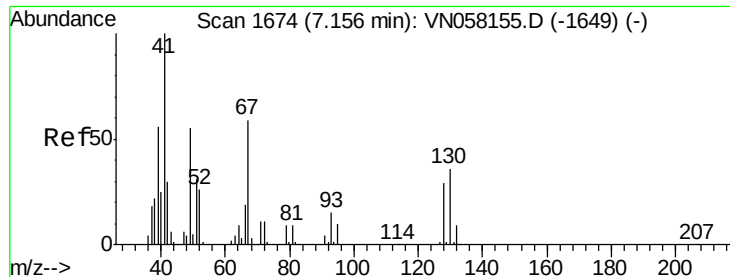


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 98.00 (97.70 to 98.70): V

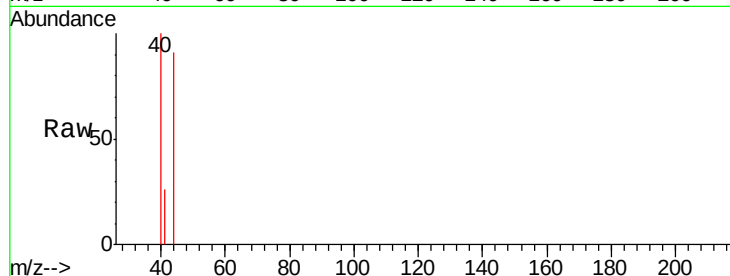




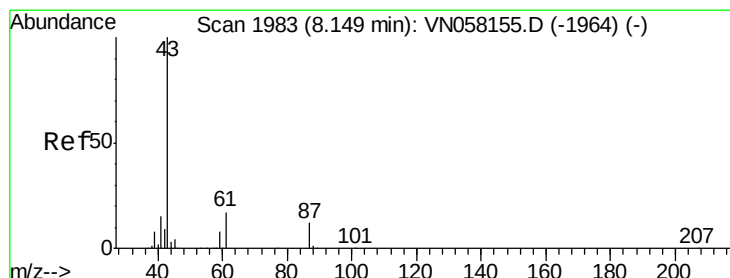
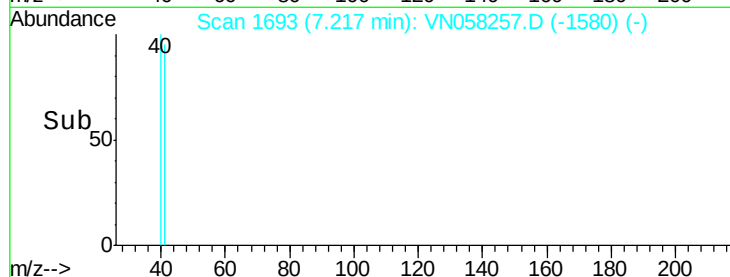
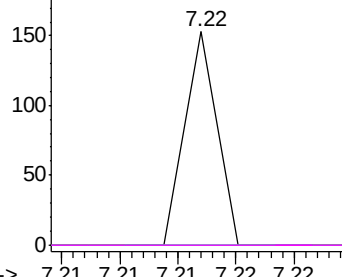
#41
Methacrylonitrile
Concen: 0.921 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.06 min
Lab File: VN058257.D
Acq: 20 Sep 2019 17:48

Instrument :
MSVOA_N
ClientSampleId :
RE132D4-20190916DL

Tgt Ion:	41	Resp:	29
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0

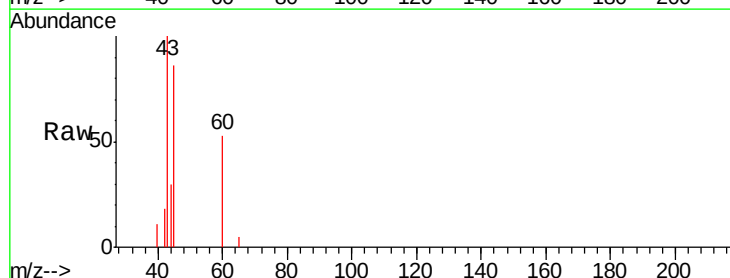


Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 67.00 (66.70 to 67.70): VNO
Ion 52.00 (51.70 to 52.70): VNO

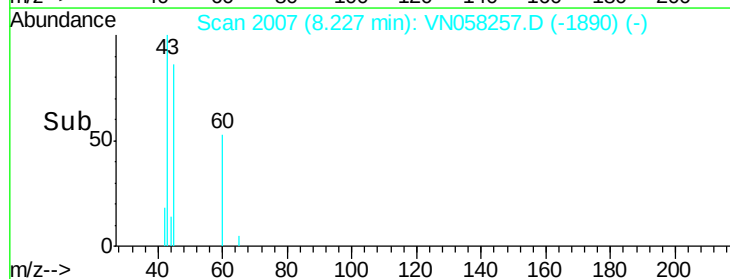
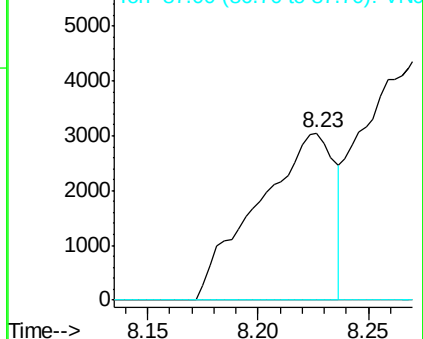


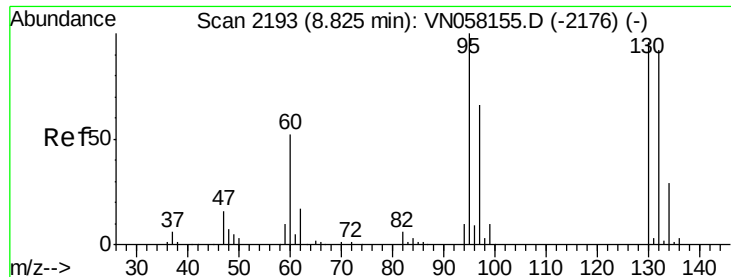
#43
Isopropyl Acetate
Concen: 0.677 ug/l
RT: 8.23 min Scan# 2007
Delta R.T. 0.08 min
Lab File: VN058257.D
Acq: 20 Sep 2019 17:48

Tgt Ion:	43	Resp:	7375
Ion	Ratio	Lower	Upper
43	100		
61	0.0	19.7	29.5#
87	0.0	9.4	14.2#



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





#44

Trichloroethene

Concen: 54.453 ug/l

RT: 8.83 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VN058257.D

Acq: 20 Sep 2019 17:48

Instrument :

MSVOA_N

ClientSampleId :

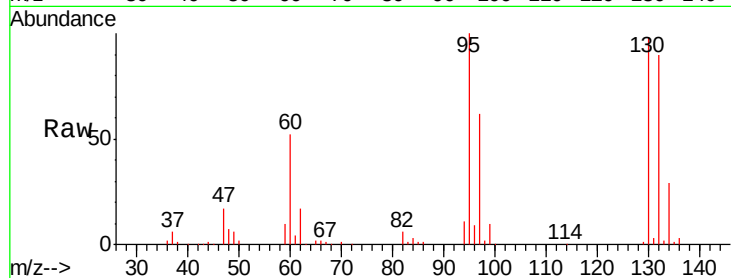
RE132D4-20190916DL

Tgt Ion:130 Resp: 228678

Ion Ratio Lower Upper

130 100

95 101.8 0.0 207.8



Abundance Ion 129.80 (129.50 to 130.50): VN058257.D (-2194) (-)

Ion 94.90 (94.60 to 95.60): VN058257.D (-2194) (-)

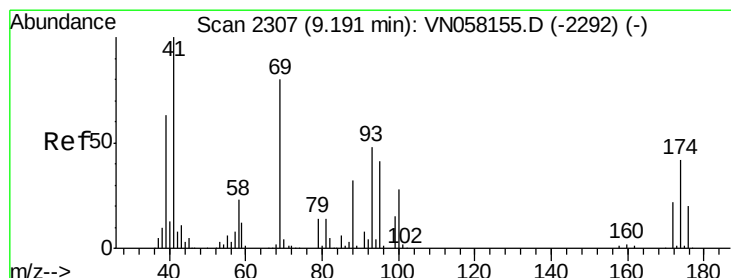
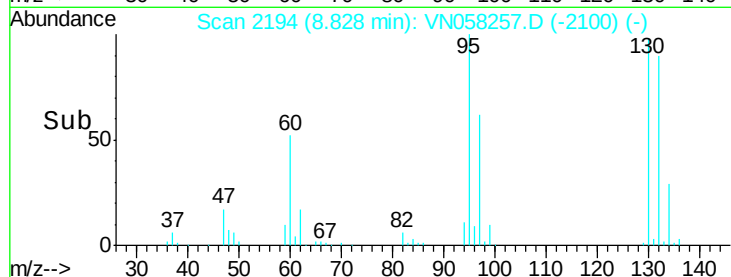
8.83

100000

50000

0

Time-->



#49

1,4-Dioxane

Concen: 1.811 ug/l

RT: 9.19 min Scan# 2307

Delta R.T. 0.00 min

Lab File: VN058257.D

Acq: 20 Sep 2019 17:48

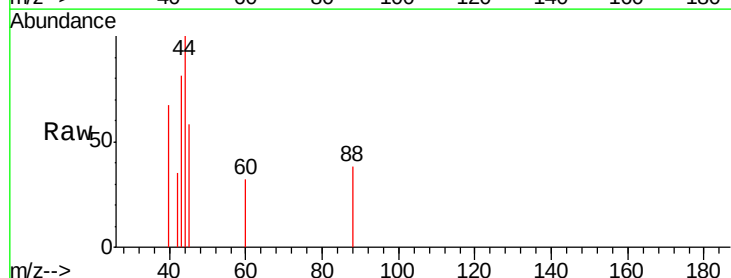
Tgt Ion: 88 Resp: 147

Ion Ratio Lower Upper

88 100

43 108.2 27.8 41.8#

58 0.0 55.0 82.4#



Abundance Ion 88.00 (87.70 to 88.70): VN058257.D (-2307) (-)

Ion 43.00 (42.70 to 43.70): VN058257.D (-2307) (-)

Ion 58.00 (57.70 to 58.70): VN058257.D (-2307) (-)

600

500

400

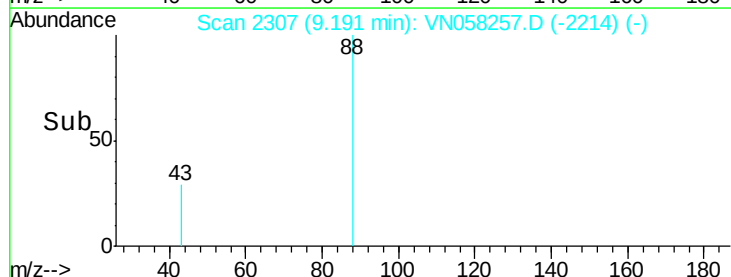
300

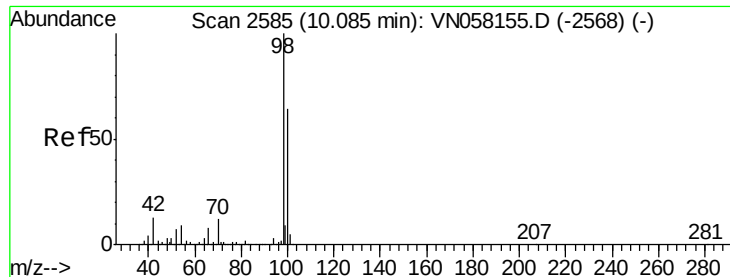
200

100

0

Time-->

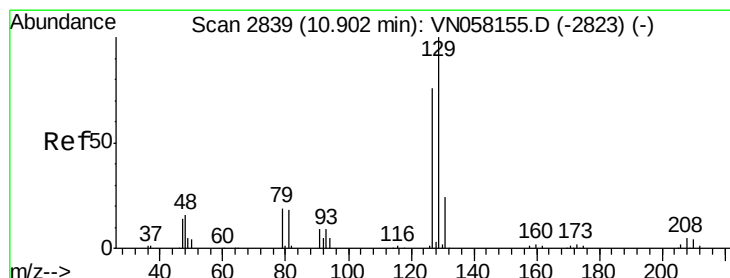
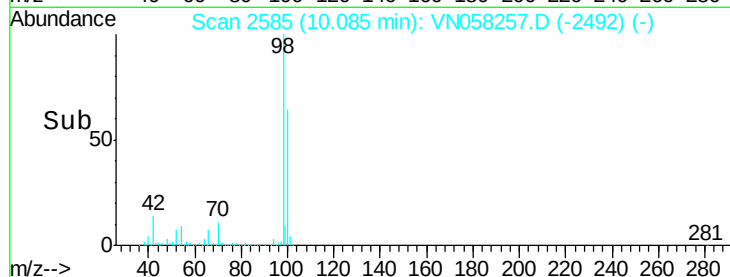
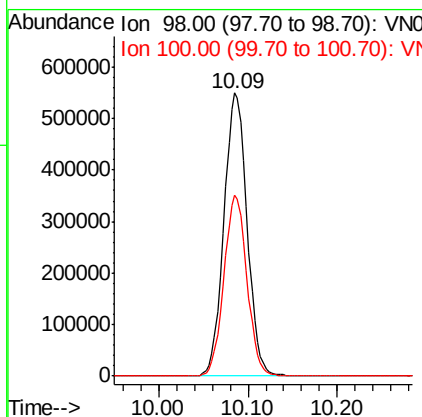
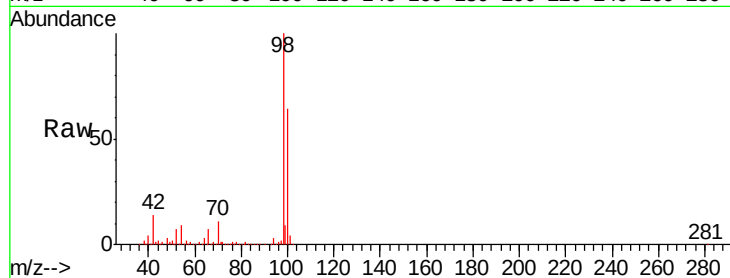




#50
Toluene-d8
Concen: 53.503 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN058257.D
Acq: 20 Sep 2019 17:48

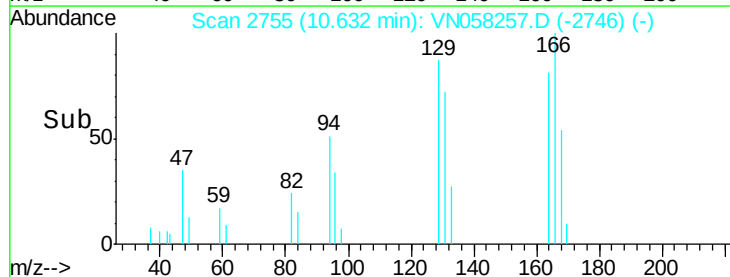
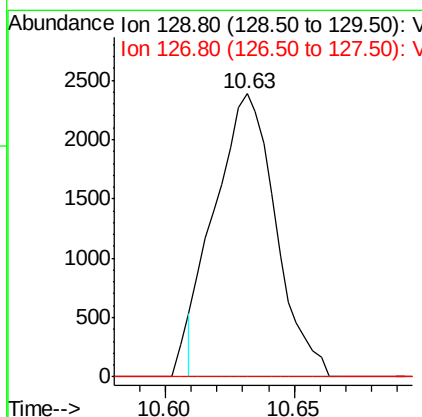
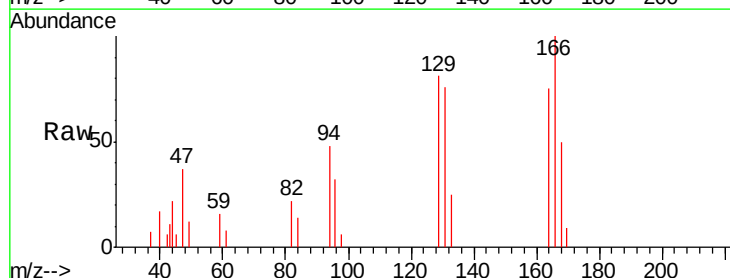
Instrument :
MSVOA_N
ClientSampleId :
RE132D4-20190916DL

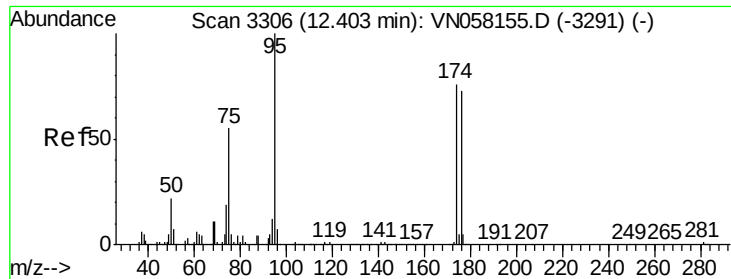
Tgt Ion: 98 Resp: 987338
Ion Ratio Lower Upper
98 100
100 63.3 51.1 76.7



#60
Dibromochloromethane
Concen: 0.850 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.27 min
Lab File: VN058257.D
Acq: 20 Sep 2019 17:48

Tgt Ion: 129 Resp: 3903
Ion Ratio Lower Upper
129 100
127 0.0 38.7 116.1#





#62

4-Bromofluorobenzene

Concen: 45.490 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058257.D

Acq: 20 Sep 2019 17:48

Instrument :

MSVOA_N

ClientSampleId :

RE132D4-20190916DL

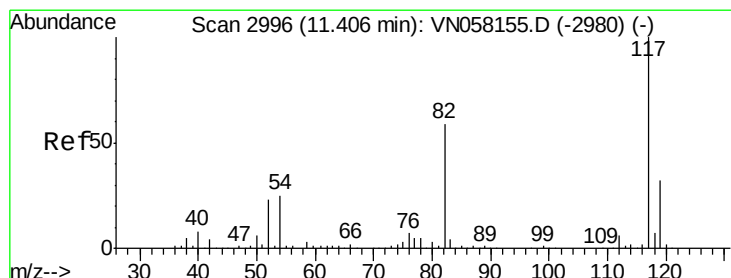
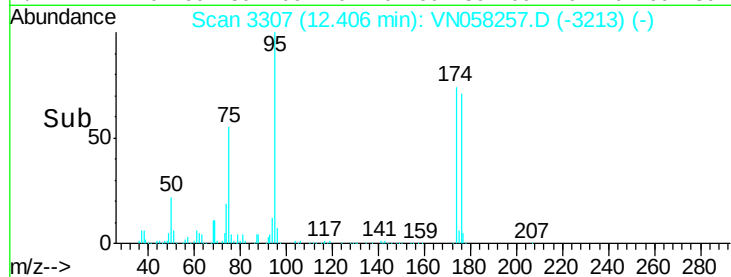
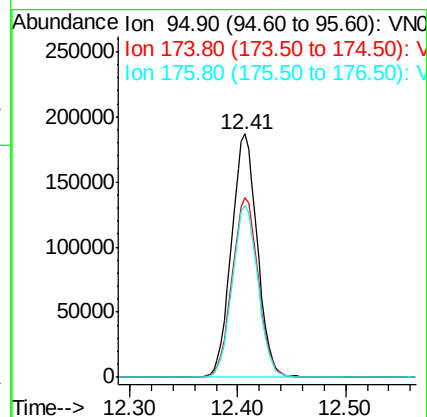
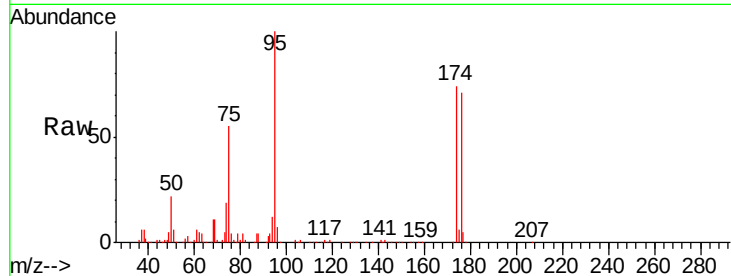
Tgt Ion: 95 Resp: 311833

Ion Ratio Lower Upper

95 100

174 74.8 0.0 152.2

176 70.6 0.0 148.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN058257.D

Acq: 20 Sep 2019 17:48

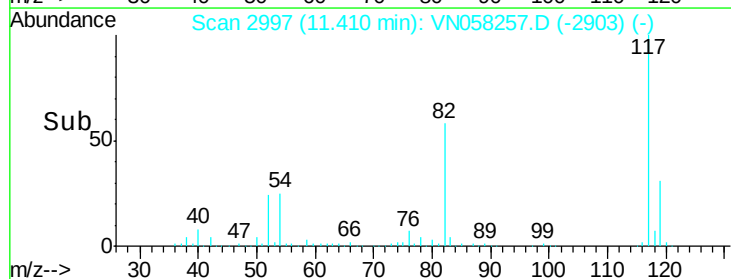
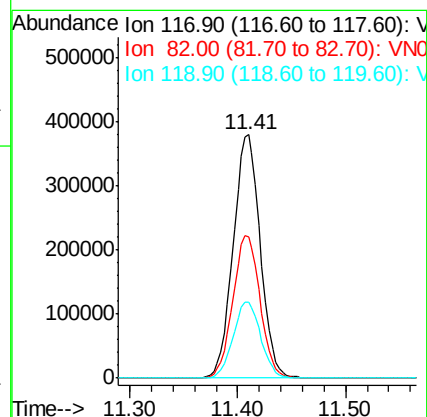
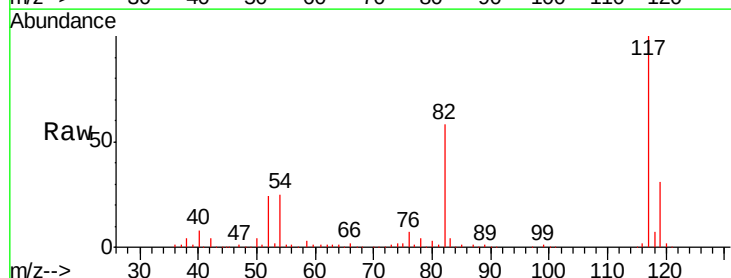
Tgt Ion: 117 Resp: 664324

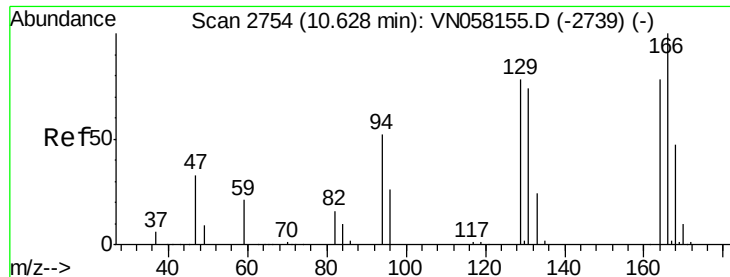
Ion Ratio Lower Upper

117 100

82 58.0 46.9 70.3

119 31.1 25.3 37.9





#64

Tetrachloroethene

Concen: 1.210 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN058257.D

Acq: 20 Sep 2019 17:48

Instrument :

MSVOA_N

ClientSampleId :

RE132D4-20190916DL

Tgt Ion:164 Resp: 3917

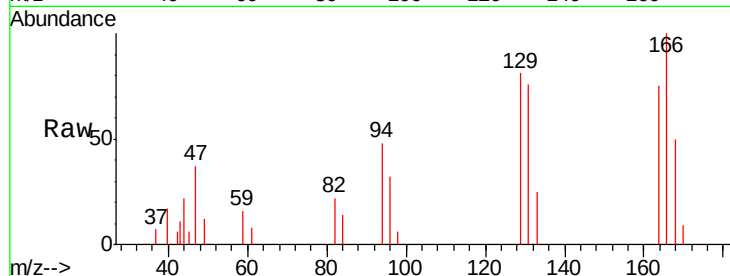
Ion Ratio Lower Upper

164 100

166 132.6 102.2 153.4

129 107.3 79.6 119.4

131 100.4 76.0 114.0

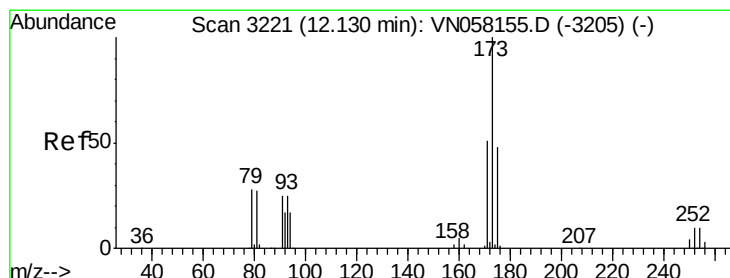
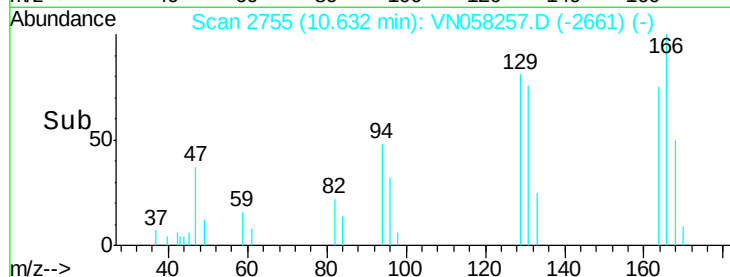
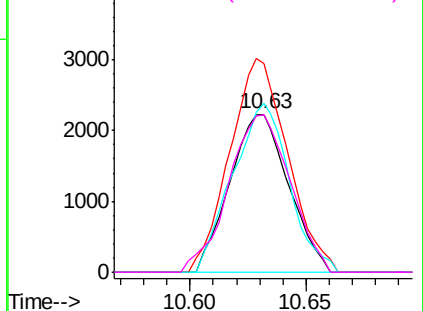


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#71

Bromoform

Concen: 3.652 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.26 min

Lab File: VN058257.D

Acq: 20 Sep 2019 17:48

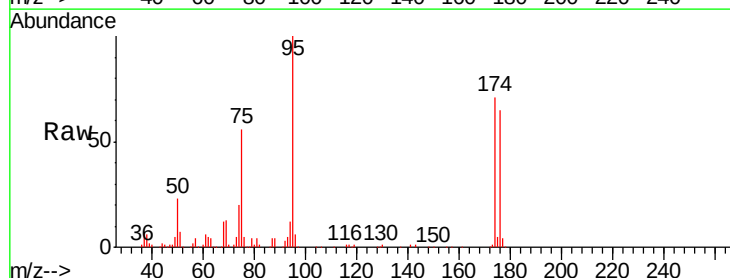
Tgt Ion:173 Resp: 193

Ion Ratio Lower Upper

173 100

175 7516.1 24.2 72.6#

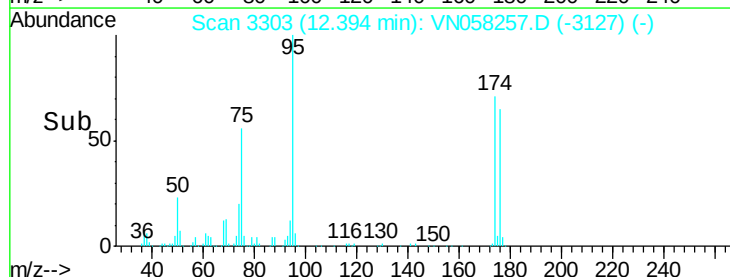
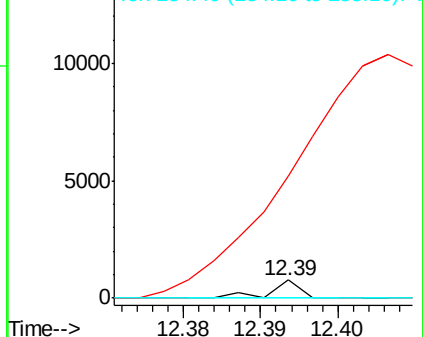
254 0.0 0.1 0.1#

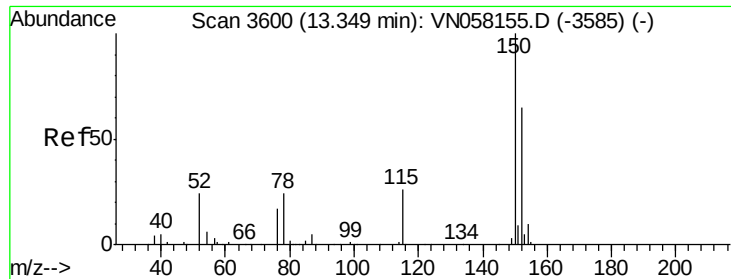


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN058257.D

Acq: 20 Sep 2019 17:48

Instrument :

MSVOA_N

ClientSampleId :

RE132D4-20190916DL

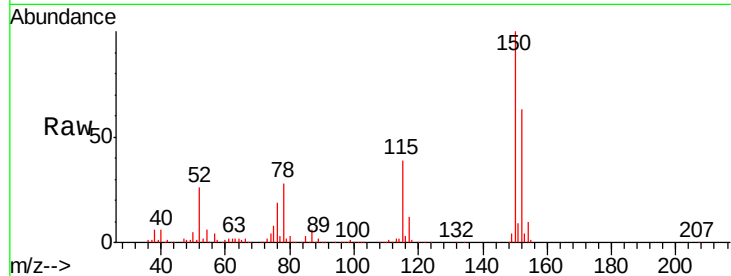
Tgt Ion: 152 Resp: 261839

Ion Ratio Lower Upper

152 100

115 61.6 30.1 90.3

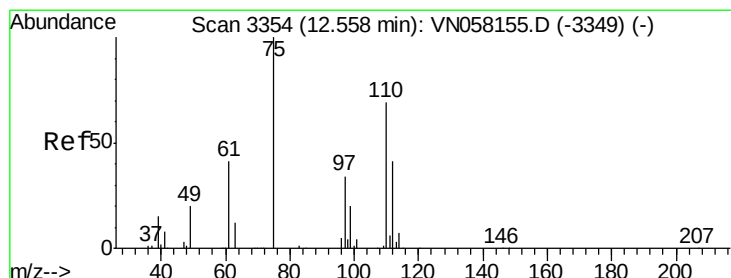
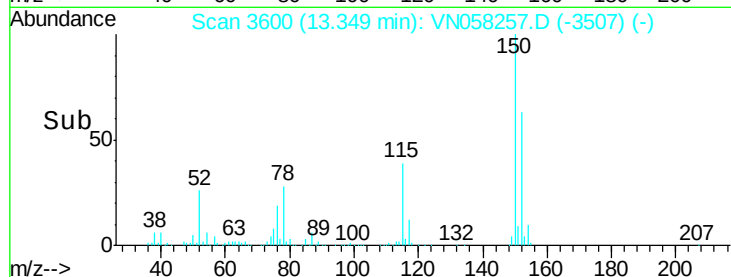
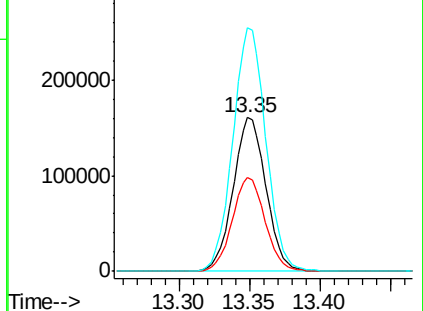
150 159.3 0.0 346.4



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: 36.364 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058257.D

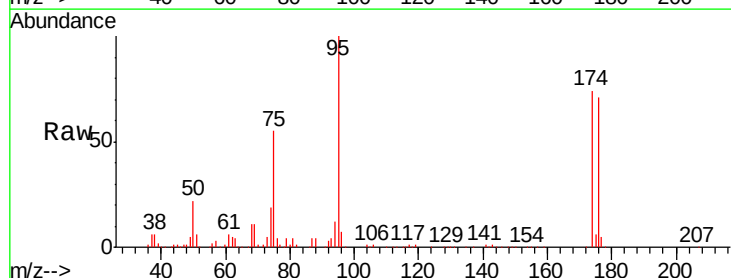
Acq: 20 Sep 2019 17:48

Tgt Ion: 75 Resp: 170403

Ion Ratio Lower Upper

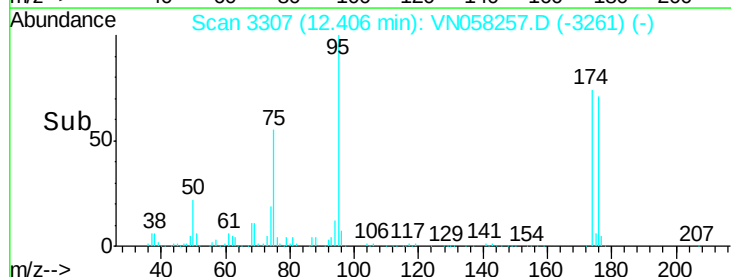
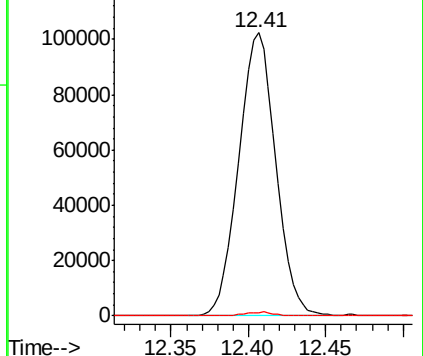
75 100

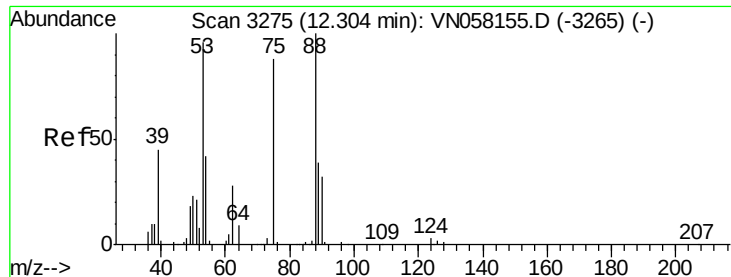
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 101.496 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058257.D

Acq: 20 Sep 2019 17:48

Instrument :

MSVOA_N

ClientSampleId :

RE132D4-20190916DL

Tgt Ion: 75 Resp: 170403

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

89 0.0 36.2 54.2#

