

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN092019\
 Data File : VN058263.D
 Acq On : 20 Sep 2019 20:01
 Operator : JC/SP
 Sample : K4975-09
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE108D1-20190918

Quant Time: Sep 20 23:53:49 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	480885	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	784289	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	667019	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	269726	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	353946	52.85	ug/l	0.00
Spiked Amount			Recovery	=	105.70%	
35) Dibromofluoromethane	7.57	113	245081	51.40	ug/l	0.00
Spiked Amount			Recovery	=	102.80%	
50) Toluene-d8	10.08	98	991252	53.36	ug/l	0.00
Spiked Amount			Recovery	=	106.72%	
62) 4-Bromofluorobenzene	12.41	95	313305	45.40	ug/l	0.00
Spiked Amount			Recovery	=	90.80%	

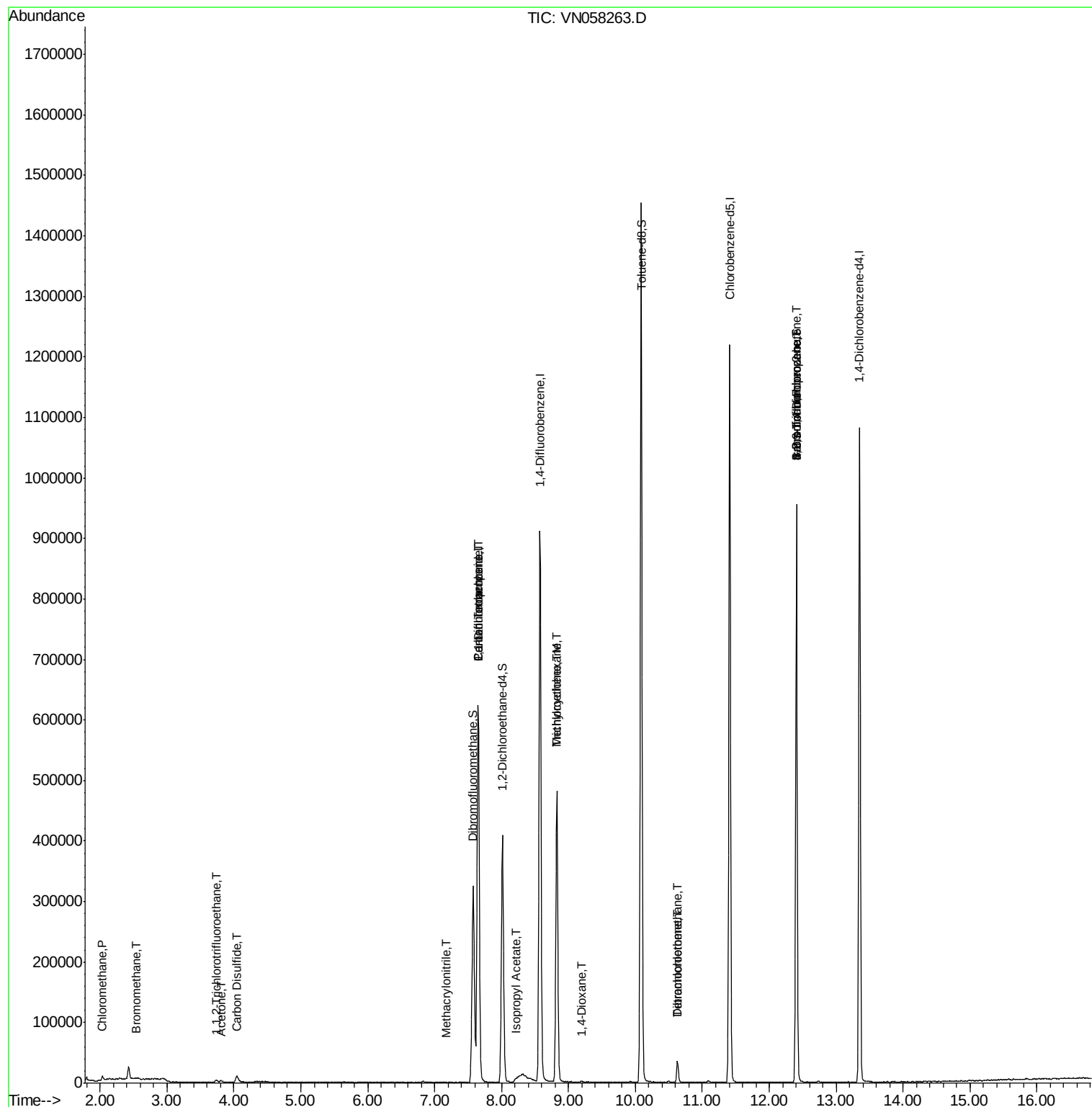
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	4830	0.564	ug/l	93
5) Bromomethane	2.54	94	61	0.757	ug/l #	4
6) Chloroethane	2.63	64	29	Below Cal	#	44
9) 1,1,2-Trichlorotrifluoroet	3.74	101	2592	0.667	ug/l #	92
12) 1,1-Dichloroethene	3.72	96	157	Below Cal	#	1
16) Acetone	3.80	43	2947	1.296	ug/l	93
17) Carbon Disulfide	4.03	76	273	0.336	ug/l #	74
20) Methylene Chloride	4.54	84	30	Below Cal	#	32
31) Cyclohexane	7.65	56	11892	Below Cal	#	1
36) 1,1-Dichloropropene	7.65	75	41301	7.302	ug/l #	45
38) Carbon Tetrachloride	7.65	117	49100	8.636	ug/l #	15
39) Methylcyclohexane	8.83	83	2483	0.524	ug/l #	1
41) Methacrylonitrile	7.17	41	31	0.921	ug/l #	100
43) Isopropyl Acetate	8.21	43	5345	0.488	ug/l #	57
44) Trichloroethene	8.82	130	164986	39.028	ug/l	97
49) 1,4-Dioxane	9.19	88	985	12.054	ug/l #	58
60) Dibromochloromethane	10.63	129	7174	1.552	ug/l #	11
64) Tetrachloroethene	10.63	164	7887	2.426	ug/l	93
71) Bromoform	12.41	173	1372	3.999	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	171579	35.544	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	171579	99.339	ug/l #	5

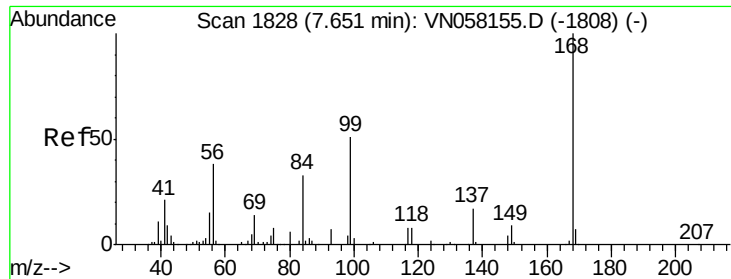
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN058263.D

Acq: 20 Sep 2019 20:01

Instrument :

MSVOA_N

ClientSampleId :

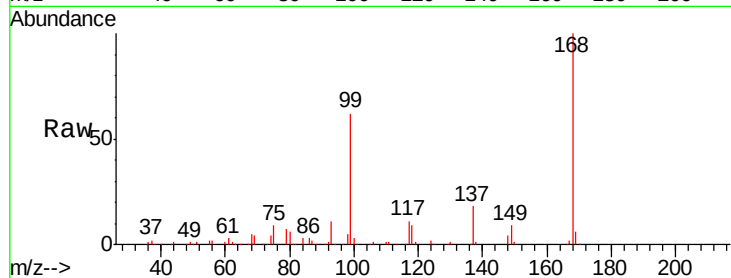
RE108D1-20190918

Tgt Ion:168 Resp: 480885

Ion Ratio Lower Upper

168 100

99 61.9 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): VN058155.D (-1808) (-)

Ion 98.90 (98.60 to 99.60): VN058155.D (-1808) (-)

7.65

200000

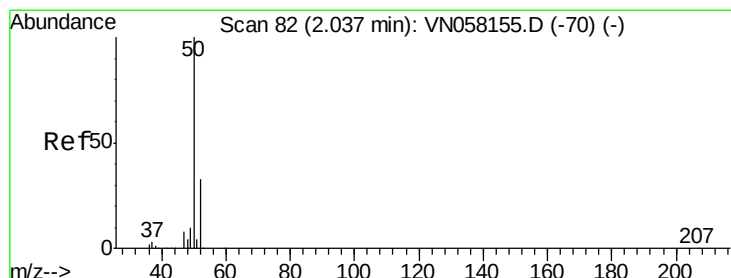
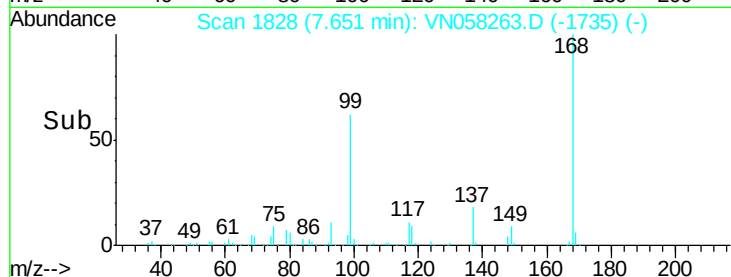
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.564 ug/l

RT: 2.04 min Scan# 82

Delta R.T. -0.00 min

Lab File: VN058263.D

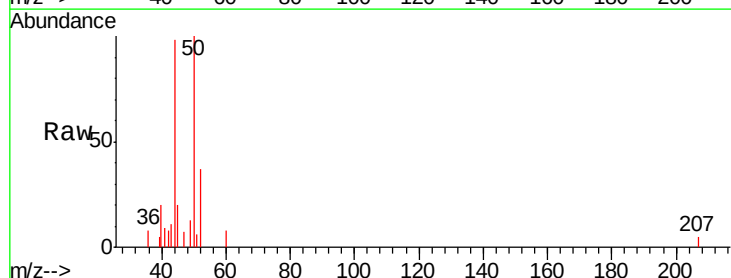
Acq: 20 Sep 2019 20:01

Tgt Ion: 50 Resp: 4830

Ion Ratio Lower Upper

50 100

52 36.7 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VN058155.D (-70) (-)

Ion 51.90 (51.60 to 52.60): VN058155.D (-70) (-)

2.04

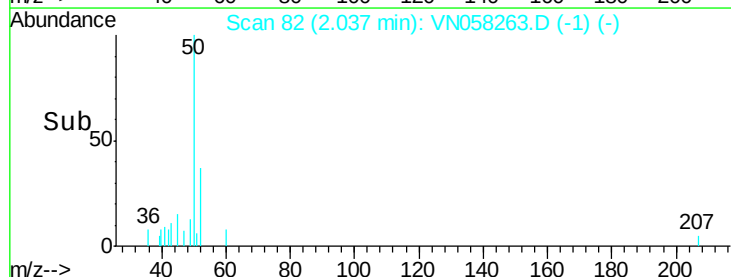
3000

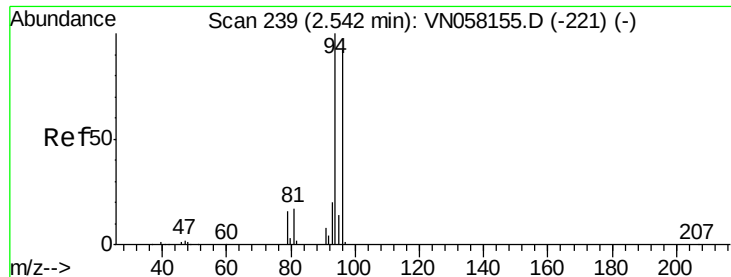
2000

1000

0

Time-->





#5

Bromomethane

Concen: 0.757 ug/l

RT: 2.54 min Scan# 238

Delta R.T. -0.00 min

Lab File: VN058263.D

Acq: 20 Sep 2019 20:01

Instrument :

MSVOA_N

ClientSampleId :

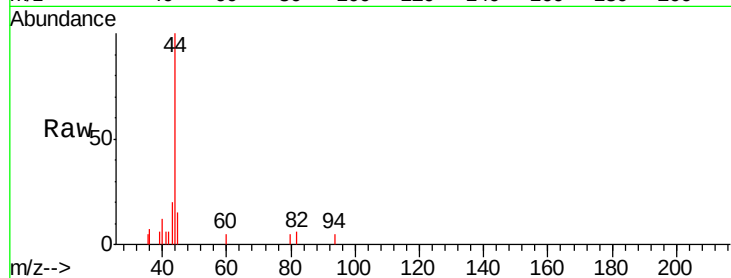
RE108D1-20190918

Tgt Ion: 94 Resp: 61

Ion Ratio Lower Upper

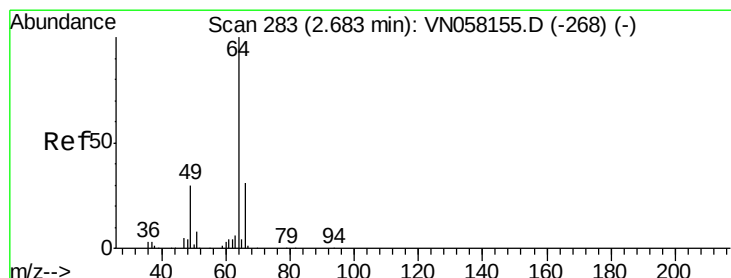
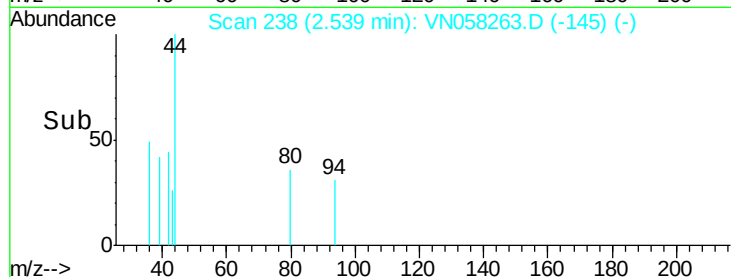
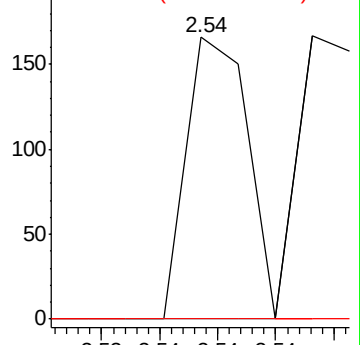
94 100

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



#6

Chloroethane

Concen: Below Cal

RT: 2.63 min Scan# 265

Delta R.T. -0.06 min

Lab File: VN058263.D

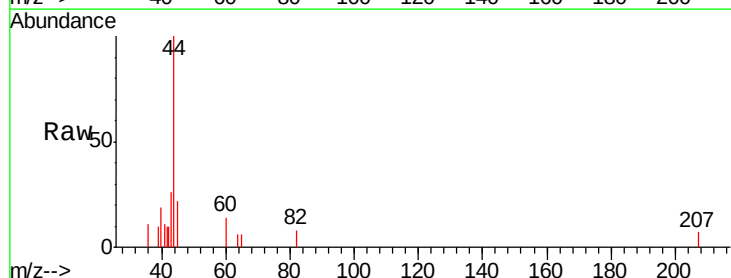
Acq: 20 Sep 2019 20:01

Tgt Ion: 64 Resp: 29

Ion Ratio Lower Upper

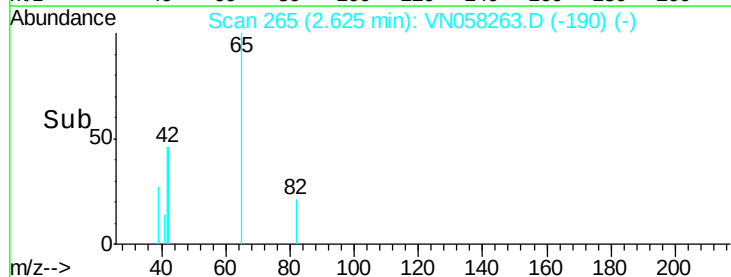
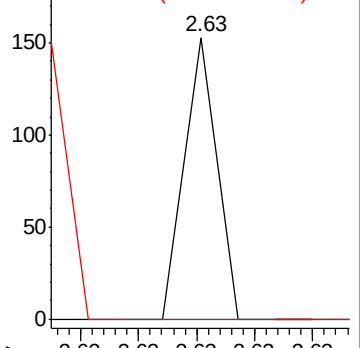
64 100

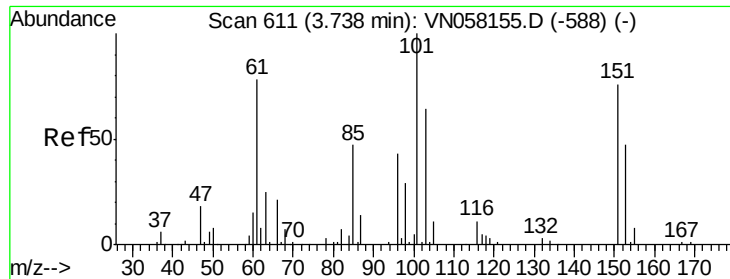
66 0.0 24.6 37.0#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.667 ug/l

RT: 3.74 min Scan# 611

Delta R.T. -0.00 min

Lab File: VN058263.D

Acq: 20 Sep 2019 20:01

Instrument :

MSVOA_N

ClientSampleId :

RE108D1-20190918

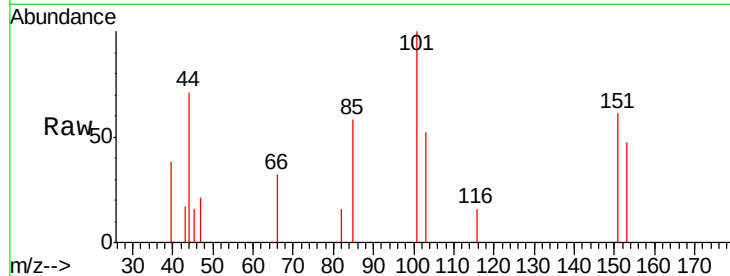
Tgt Ion:101 Resp: 2592

Ion Ratio Lower Upper

101 100

85 37.1 37.3 55.9#

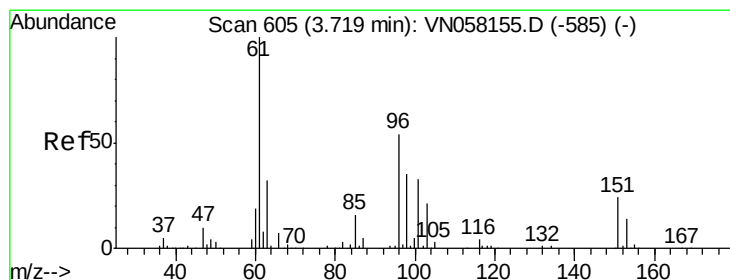
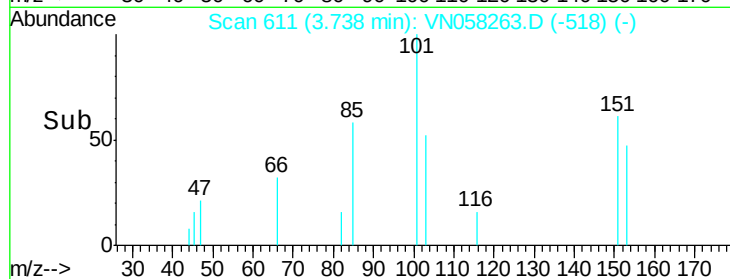
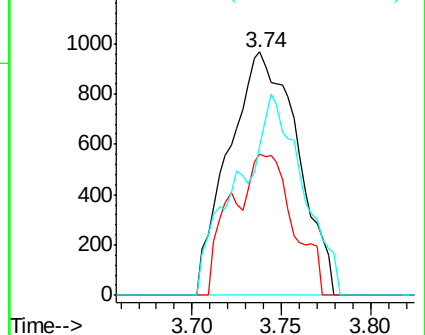
151 78.5 59.6 89.4



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V



#12

1,1-Dichloroethene

Concen: Below Cal

RT: 3.72 min Scan# 607

Delta R.T. 0.01 min

Lab File: VN058263.D

Acq: 20 Sep 2019 20:01

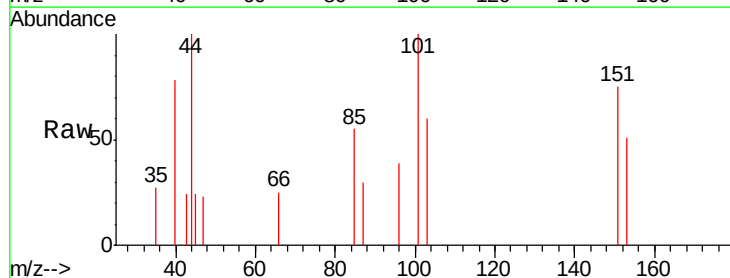
Tgt Ion: 96 Resp: 157

Ion Ratio Lower Upper

96 100

61 0.0 149.5 224.3#

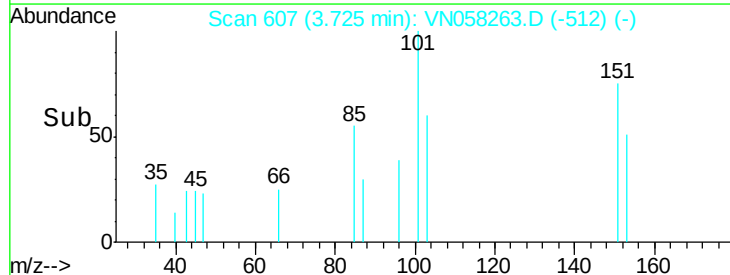
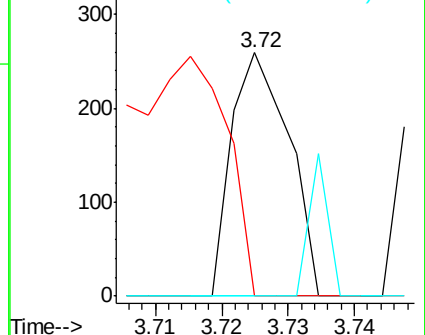
98 0.0 52.4 78.6#

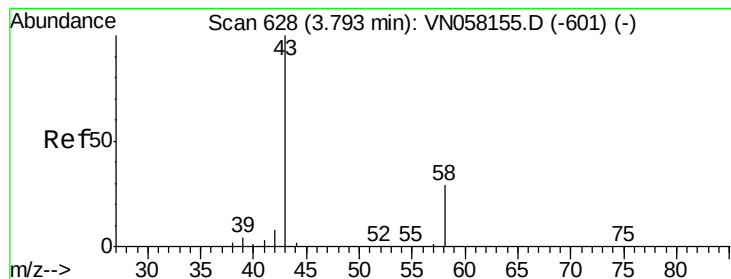


Abundance Ion 95.90 (95.60 to 96.60): VN

Ion 60.90 (60.60 to 61.60): VN

Ion 97.90 (97.60 to 98.60): VN





#16

Acetone

Concen: 1.296 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN058263.D

Acq: 20 Sep 2019 20:01

Instrument :

MSVOA_N

ClientSampleId :

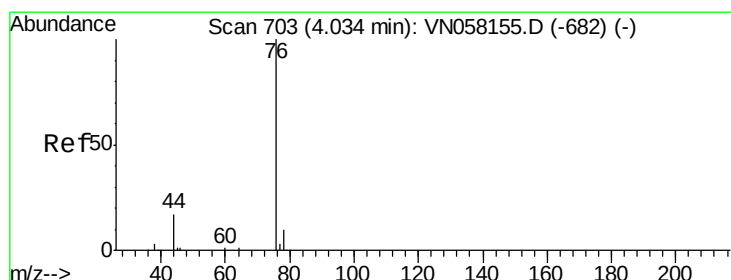
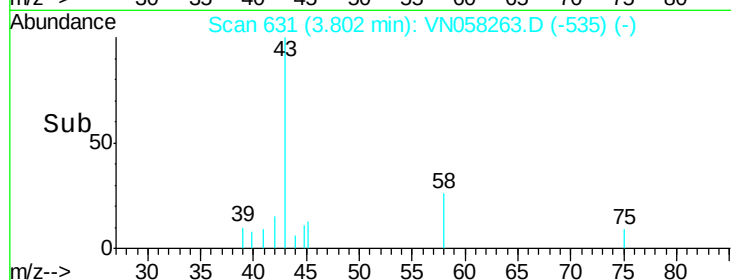
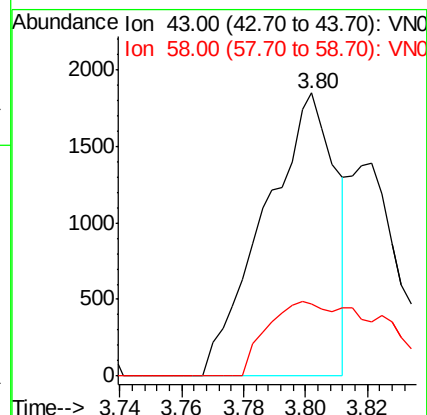
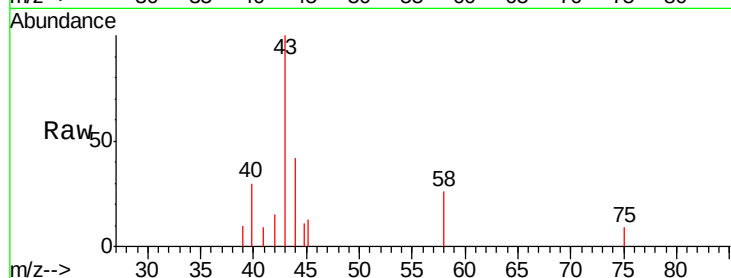
RE108D1-20190918

Tgt Ion: 43 Resp: 2947

Ion Ratio Lower Upper

43 100

58 25.6 23.4 35.2



#17

Carbon Disulfide

Concen: 0.336 ug/l

RT: 4.03 min Scan# 702

Delta R.T. -0.00 min

Lab File: VN058263.D

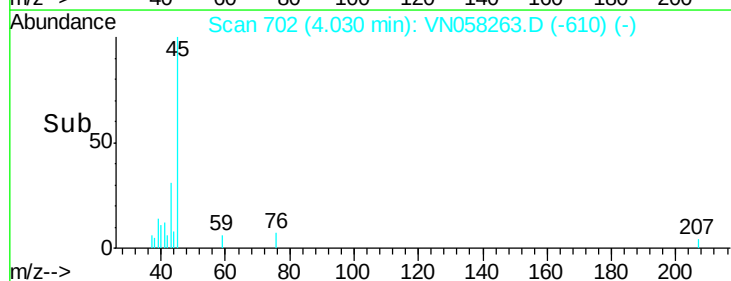
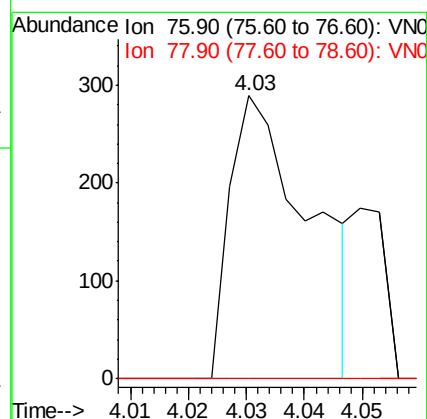
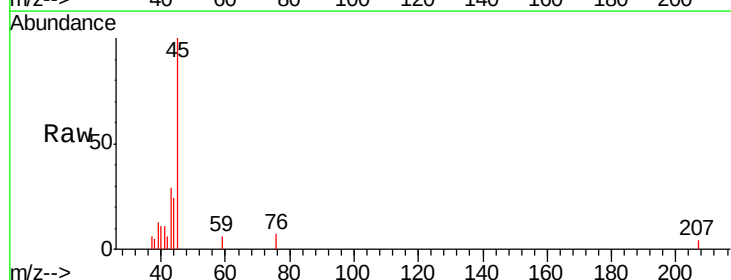
Acq: 20 Sep 2019 20:01

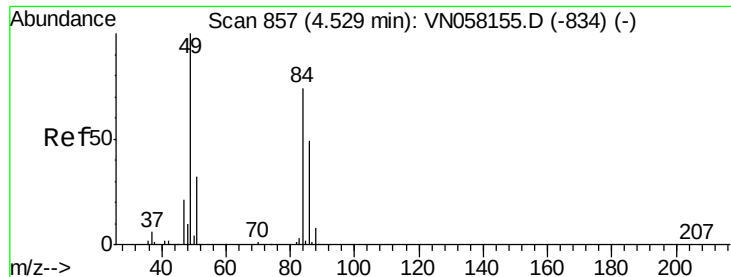
Tgt Ion: 76 Resp: 273

Ion Ratio Lower Upper

76 100

78 0.0 7.7 11.5#

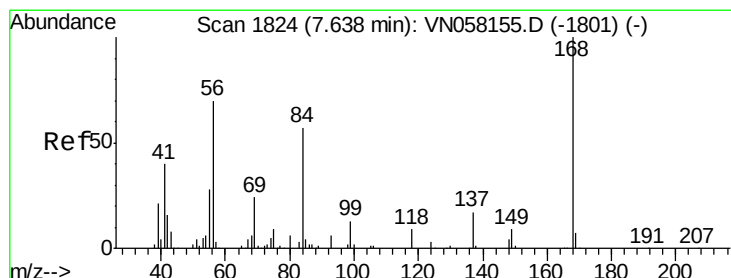
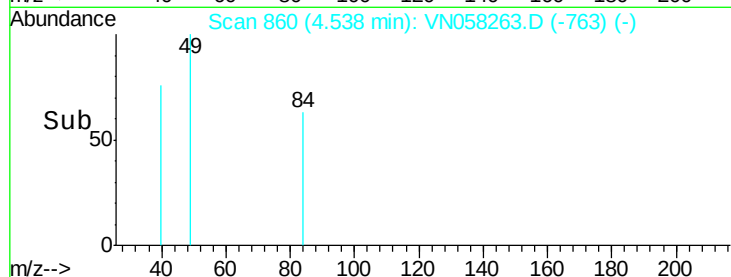
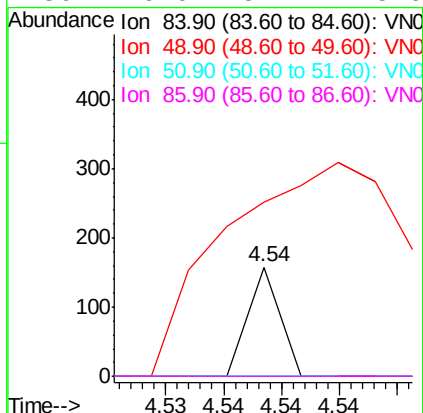
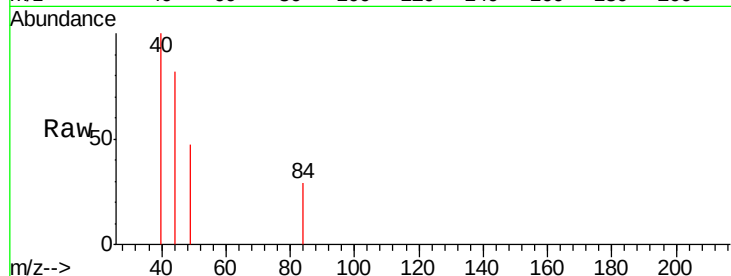




#20
Methylene Chloride
Concen: Below Cal
RT: 4.54 min Scan# 860
Delta R.T. 0.01 min
Lab File: VN058263.D
Acq: 20 Sep 2019 20:01

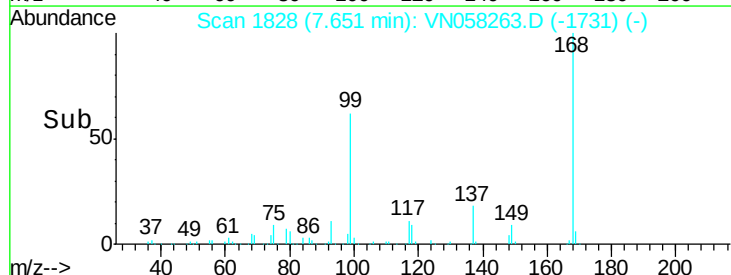
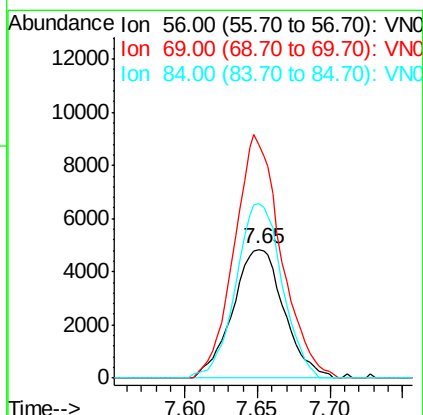
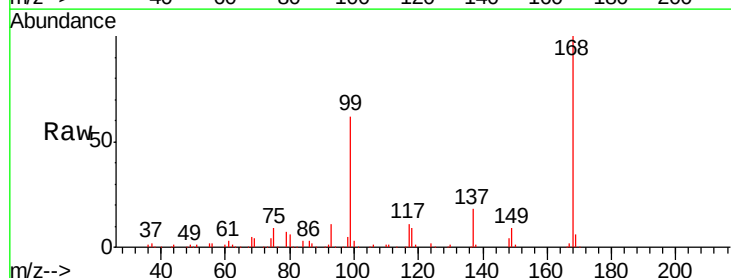
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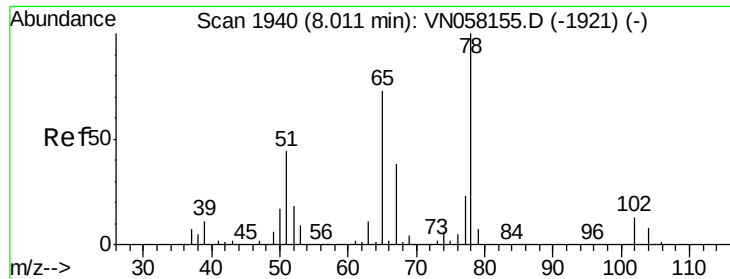
Tgt Ion: 84 Resp: 30
Ion Ratio Lower Upper
84 100
49 62.7 107.5 161.3#
51 0.0 33.9 50.9#
86 0.0 52.4 78.6#



#31
Cyclohexane
Concen: Below Cal
RT: 7.65 min Scan# 1828
Delta R.T. 0.01 min
Lab File: VN058263.D
Acq: 20 Sep 2019 20:01

Tgt Ion: 56 Resp: 11892
Ion Ratio Lower Upper
56 100
69 181.0 27.3 40.9#
84 135.9 65.0 97.4#

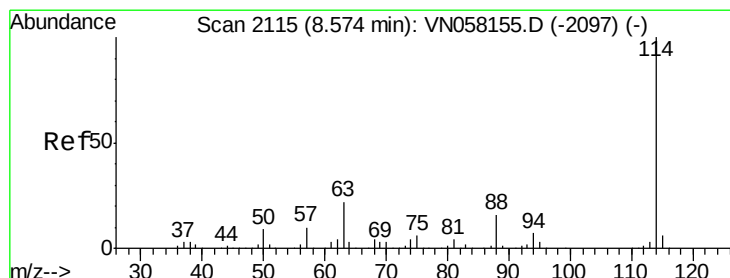
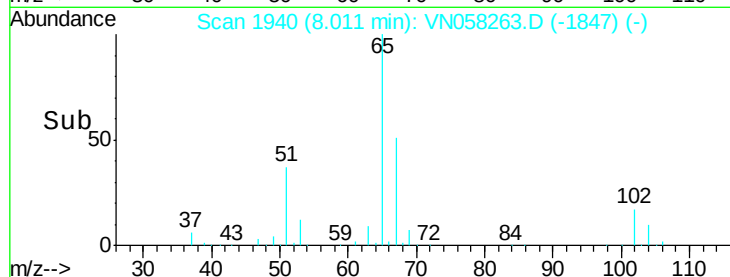
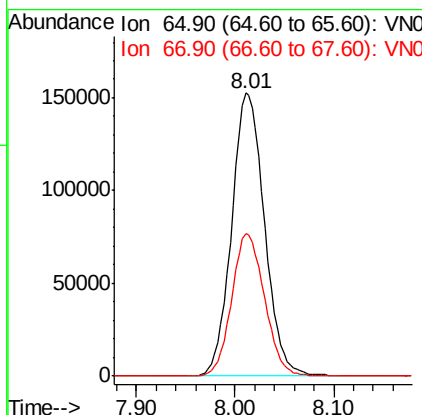
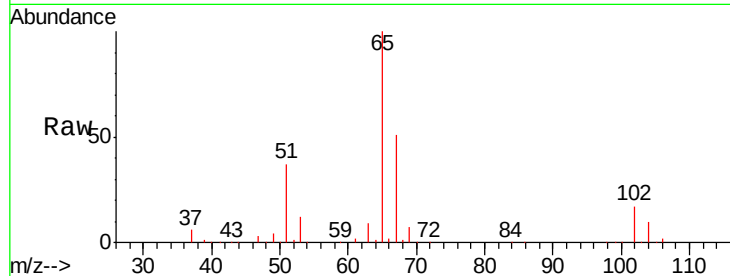




#33
 1,2-Dichloroethane-d4
 Concen: 52.845 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. -0.00 min
 Lab File: VN058263.D
 Acq: 20 Sep 2019 20:01

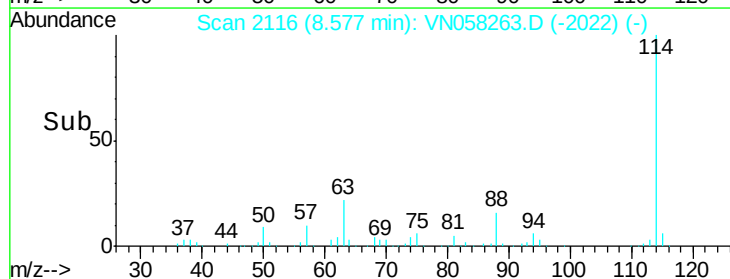
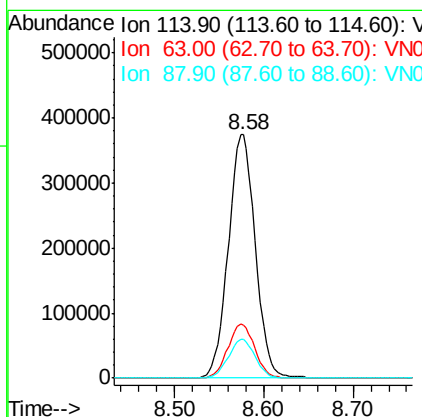
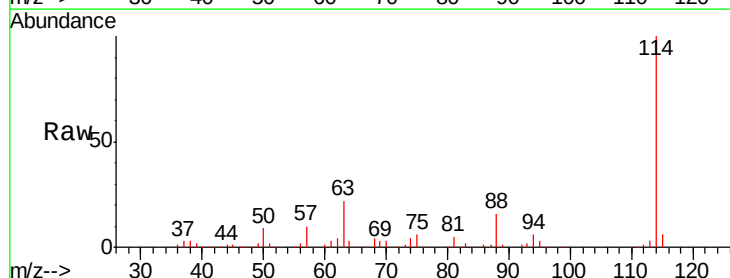
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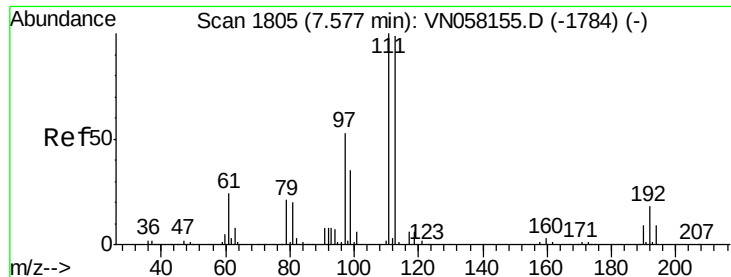
Tgt Ion: 65 Resp: 353946
 Ion Ratio Lower Upper
 65 100
 67 50.3 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN058263.D
 Acq: 20 Sep 2019 20:01

Tgt Ion: 114 Resp: 784289
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 44.2
 88 15.8 0.0 31.6

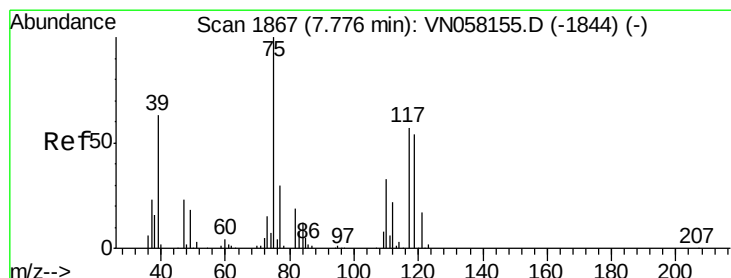
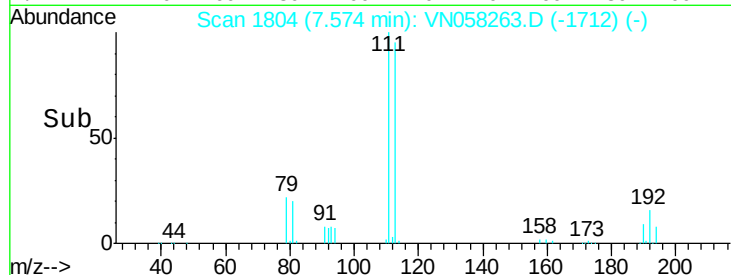
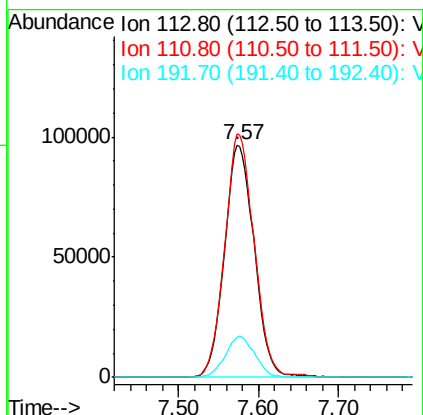
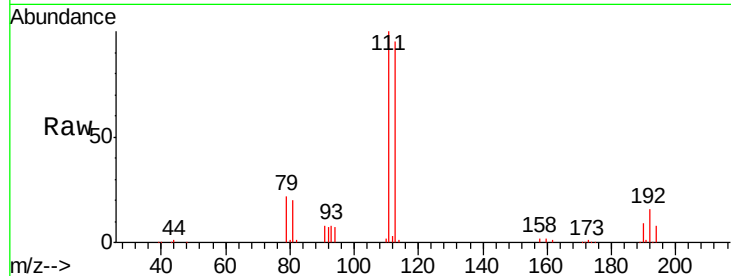




#35
 Dibromofluoromethane
 Concen: 51.403 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VN058263.D
 Acq: 20 Sep 2019 20:01

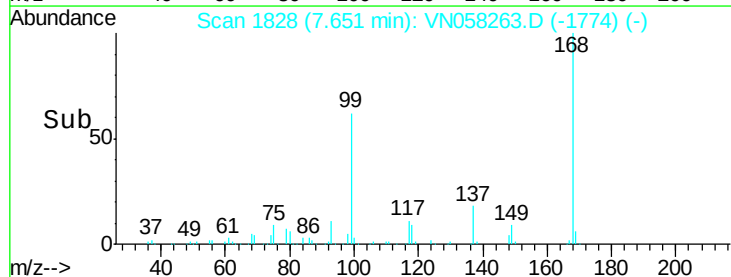
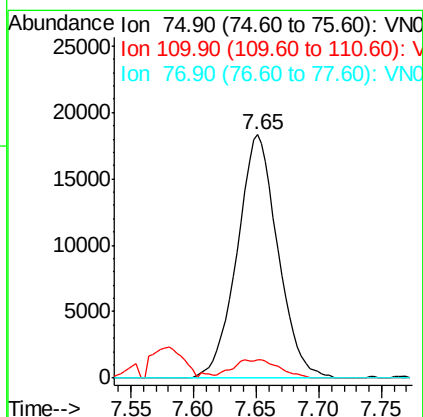
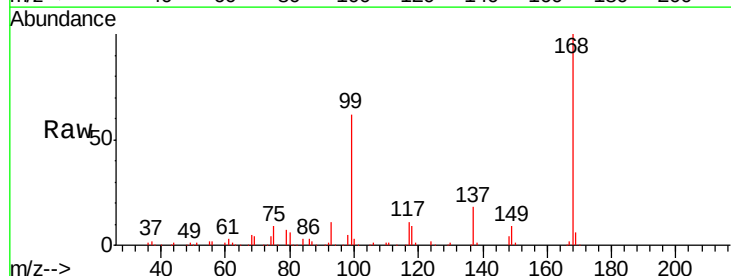
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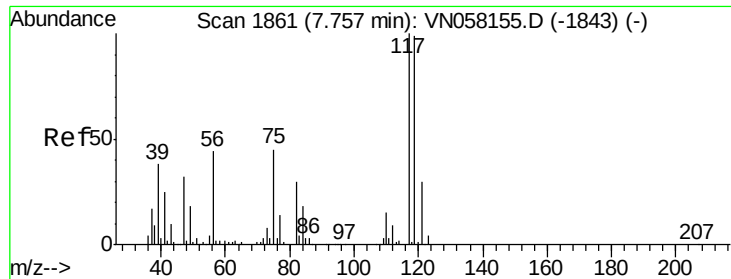
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.9	81.8	122.6
192	17.5	14.5	21.7



#36
 1,1-Dichloropropene
 Concen: 7.302 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058263.D
 Acq: 20 Sep 2019 20:01

Tgt Ion	Ratio	Lower	Upper
75	100		
110	2.6	16.6	49.7#
77	0.0	24.3	36.5#





#38

Carbon Tetrachloride

Concen: 8.636 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058263.D

Acq: 20 Sep 2019 20:01

Instrument :

MSVOA_N

ClientSampleId :

RE108D1-20190918

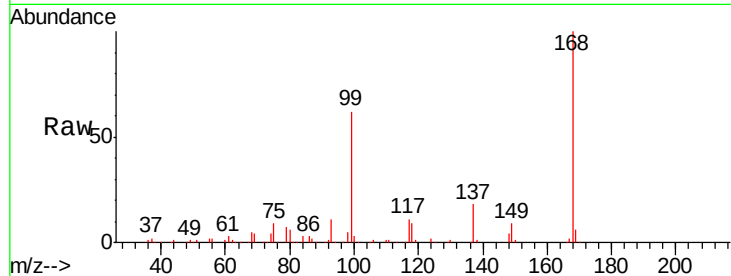
Tgt Ion:117 Resp: 49100

Ion Ratio Lower Upper

117 100

119 4.8 78.6 117.8#

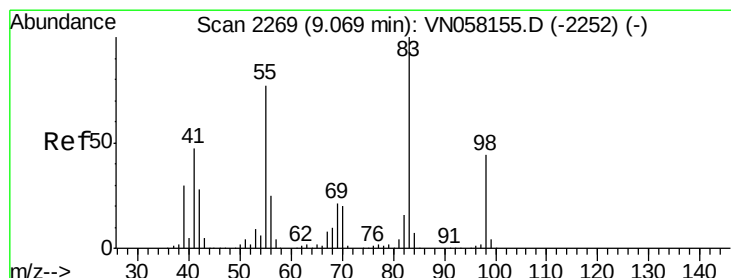
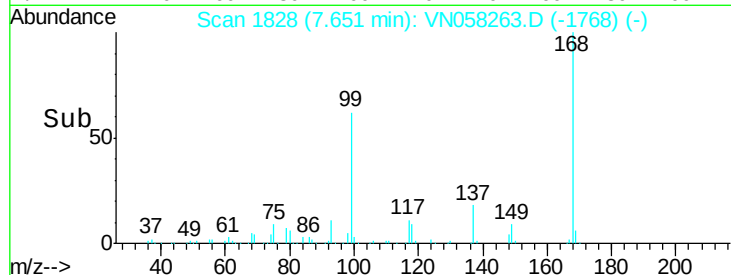
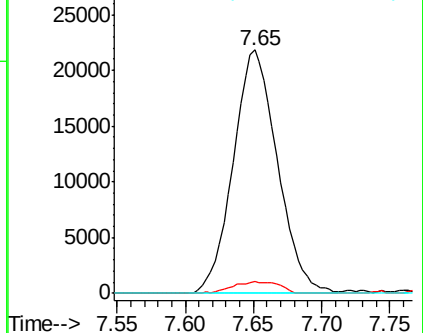
121 0.0 24.1 36.1#



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: 0.524 ug/l

RT: 8.83 min Scan# 2194

Delta R.T. -0.24 min

Lab File: VN058263.D

Acq: 20 Sep 2019 20:01

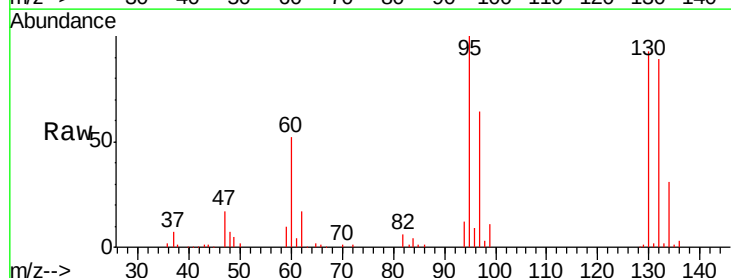
Tgt Ion: 83 Resp: 2483

Ion Ratio Lower Upper

83 100

55 0.0 61.9 92.9#

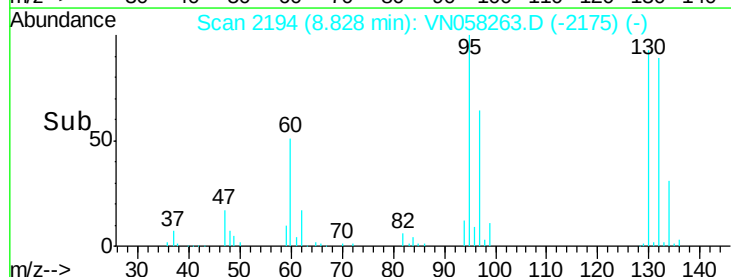
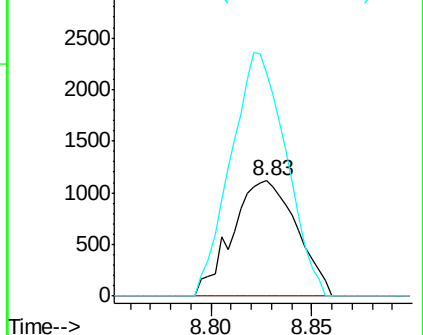
98 194.1 35.4 53.2#

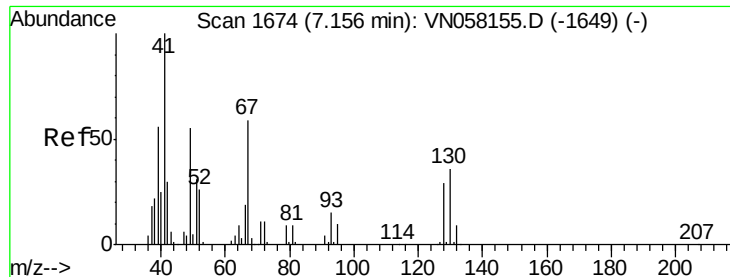


Abundance Ion 83.00 (82.70 to 83.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 98.00 (97.70 to 98.70): VNO

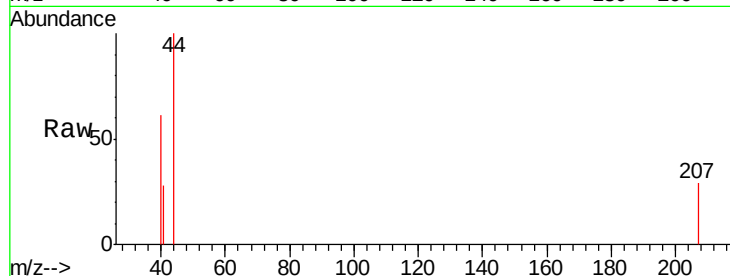




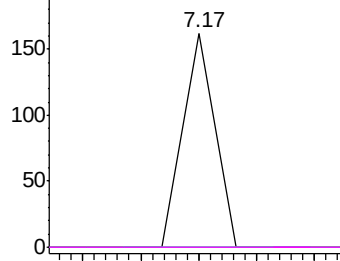
#41
Methacrylonitrile
Concen: 0.921 ug/l
RT: 7.17 min Scan# 1680
Delta R.T. 0.02 min
Lab File: VN058263.D
Acq: 20 Sep 2019 20:01

Instrument :
MSVOA_N
ClientSampleId :
RE108D1-20190918

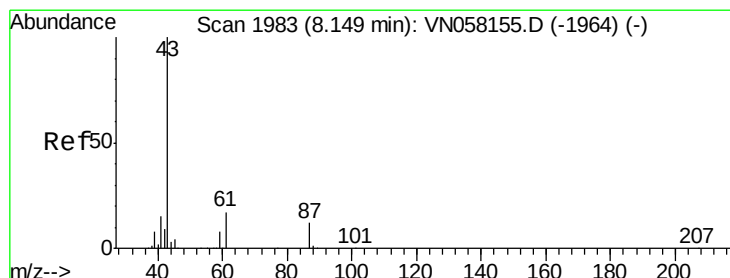
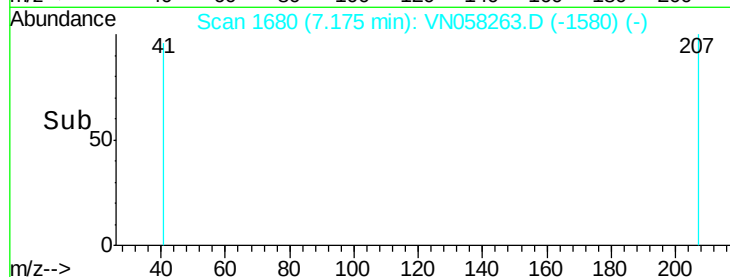
Tgt Ion:	41	Resp:	31
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0



Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 67.00 (66.70 to 67.70): VN0
Ion 52.00 (51.70 to 52.70): VN0

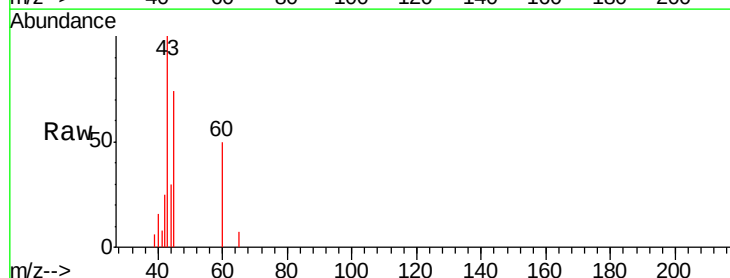


Time-->

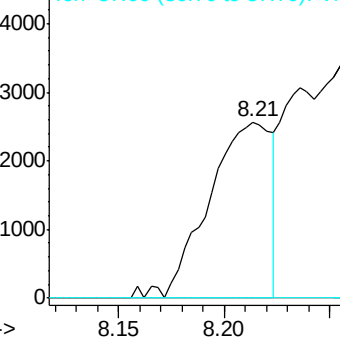


#43
Isopropyl Acetate
Concen: 0.488 ug/l
RT: 8.21 min Scan# 2003
Delta R.T. 0.06 min
Lab File: VN058263.D
Acq: 20 Sep 2019 20:01

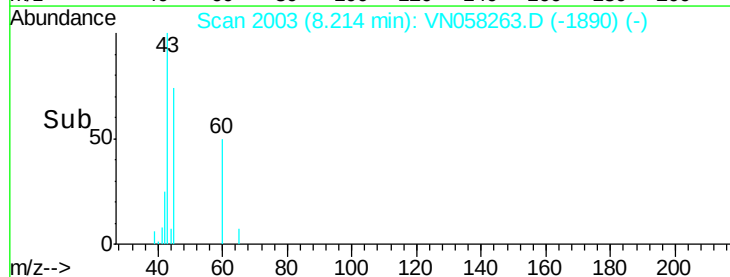
Tgt Ion:	43	Resp:	5345
Ion	Ratio	Lower	Upper
43	100		
61	0.0	19.7	29.5#
87	0.0	9.4	14.2#

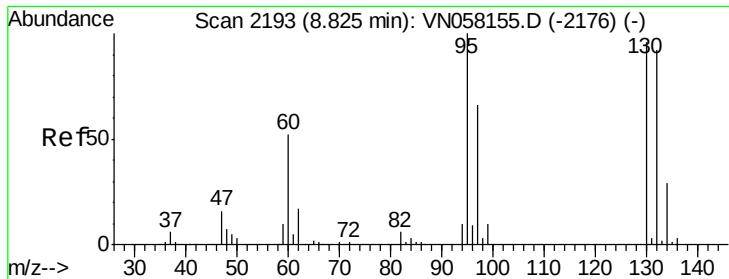


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 61.00 (60.70 to 61.70): VN0
Ion 87.00 (86.70 to 87.70): VN0



Time-->





#44

Trichloroethene

Concen: 39.028 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VN058263.D

Acq: 20 Sep 2019 20:01

Instrument :

MSVOA_N

ClientSampleId :

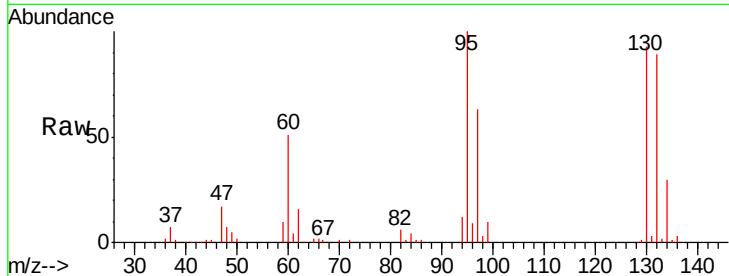
RE108D1-20190918

Tgt Ion:130 Resp: 164986

Ion Ratio Lower Upper

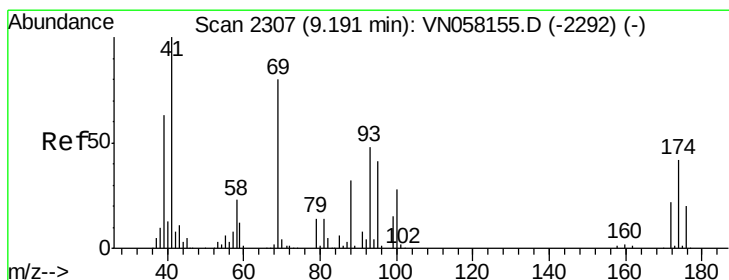
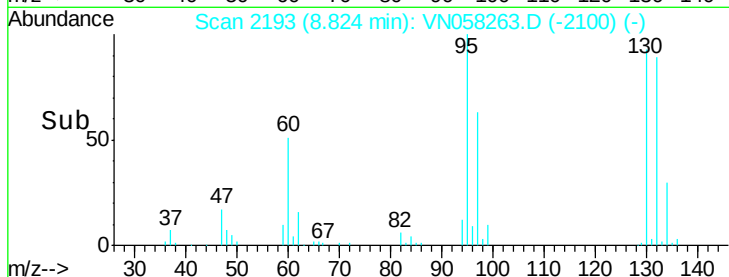
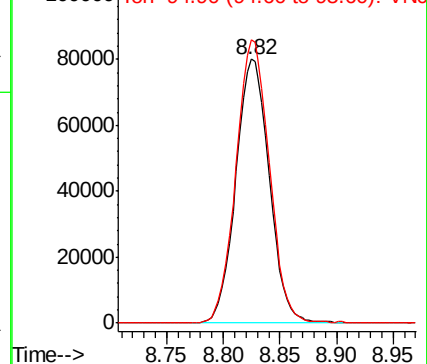
130 100

95 107.3 0.0 207.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VNO



#49

1,4-Dioxane

Concen: 12.054 ug/l

RT: 9.19 min Scan# 2308

Delta R.T. 0.00 min

Lab File: VN058263.D

Acq: 20 Sep 2019 20:01

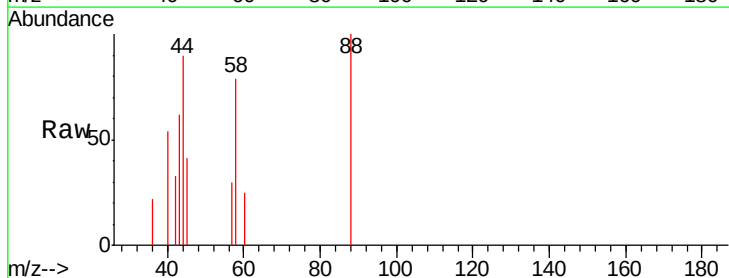
Tgt Ion: 88 Resp: 985

Ion Ratio Lower Upper

88 100

43 10.4 27.8 41.8#

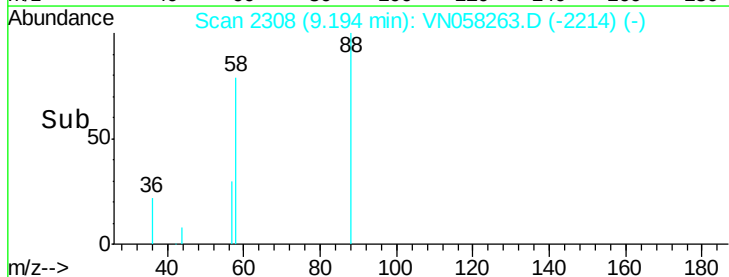
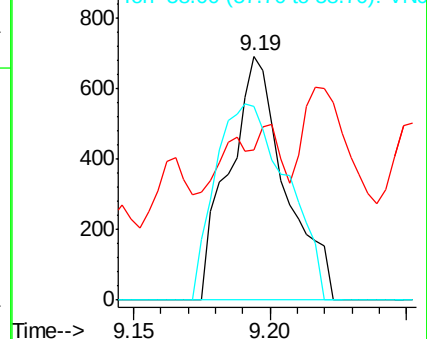
58 103.1 55.0 82.4#

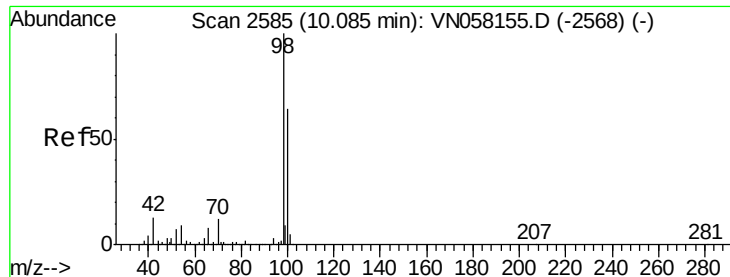


Abundance Ion 88.00 (87.70 to 88.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO





#50

Toluene-d8

Concen: 53.361 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058263.D

Acq: 20 Sep 2019 20:01

Instrument :

MSVOA_N

ClientSampleId :

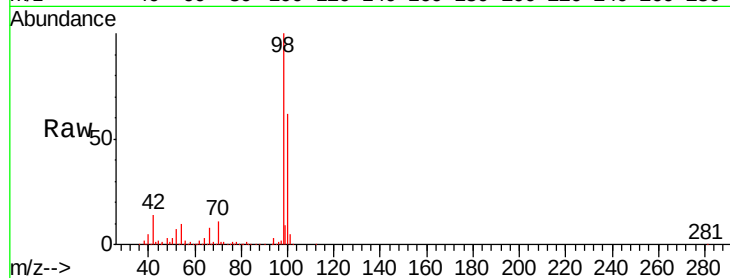
RE108D1-20190918

Tgt Ion: 98 Resp: 991252

Ion Ratio Lower Upper

98 100

100 62.5 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.08

600000

500000

400000

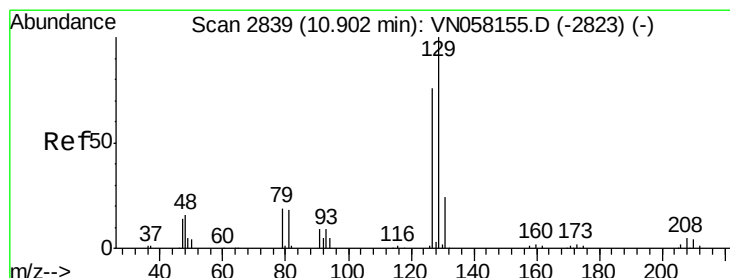
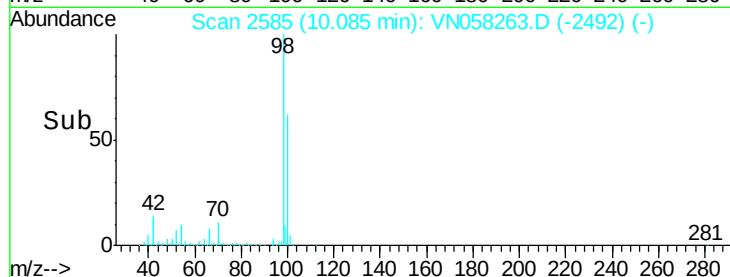
300000

200000

100000

0

Time-->



#60

Dibromochloromethane

Concen: 1.552 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.27 min

Lab File: VN058263.D

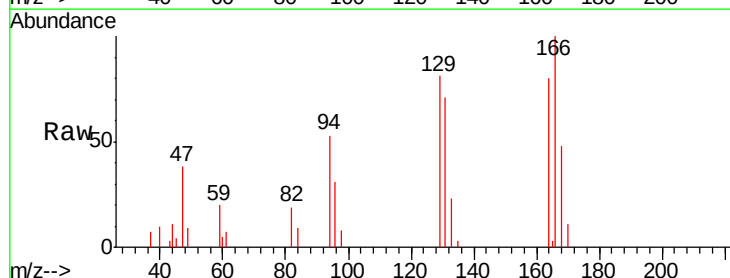
Acq: 20 Sep 2019 20:01

Tgt Ion: 129 Resp: 7174

Ion Ratio Lower Upper

129 100

127 0.0 38.7 116.1#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.63

5000

4000

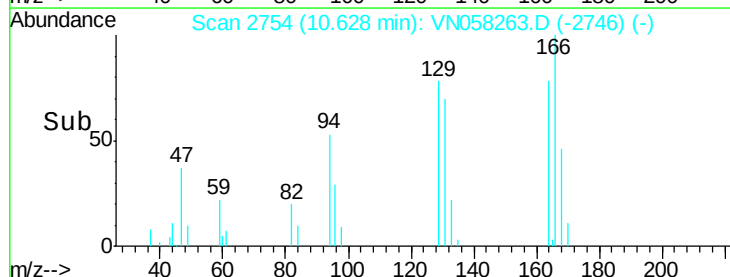
3000

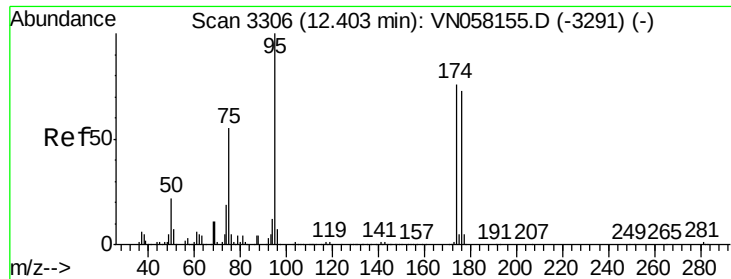
2000

1000

0

Time-->





#62

4-Bromofluorobenzene

Concen: 45.404 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058263.D

Acq: 20 Sep 2019 20:01

Instrument :

MSVOA_N

ClientSampleId :

RE108D1-20190918

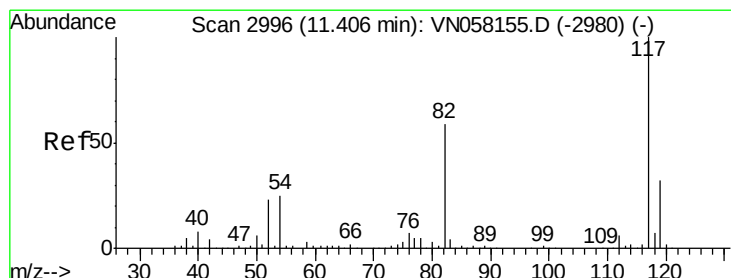
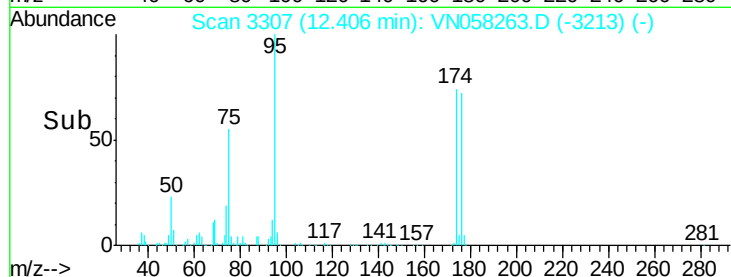
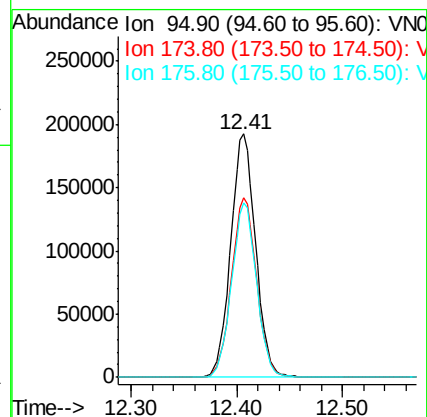
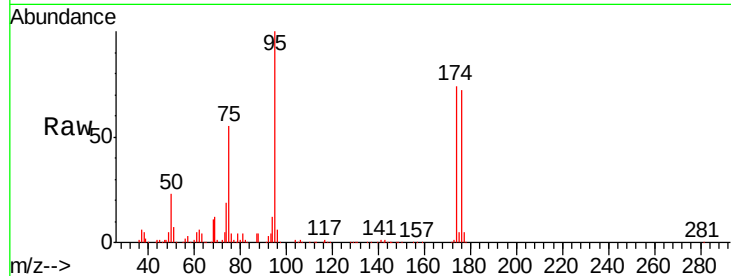
Tgt Ion: 95 Resp: 313305

Ion Ratio Lower Upper

95 100

174 74.6 0.0 152.2

176 71.9 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: VN058263.D

Acq: 20 Sep 2019 20:01

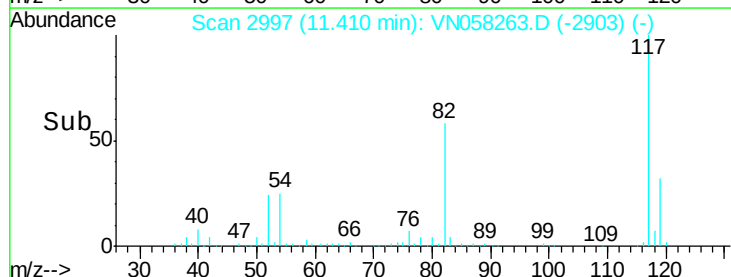
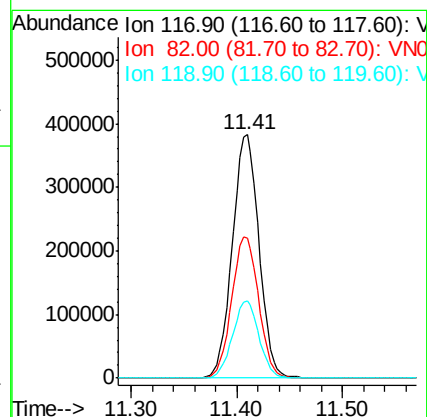
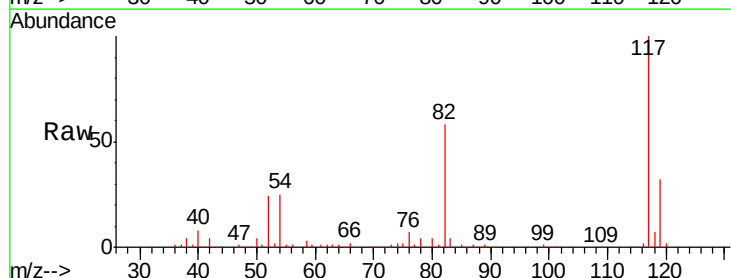
Tgt Ion: 117 Resp: 667019

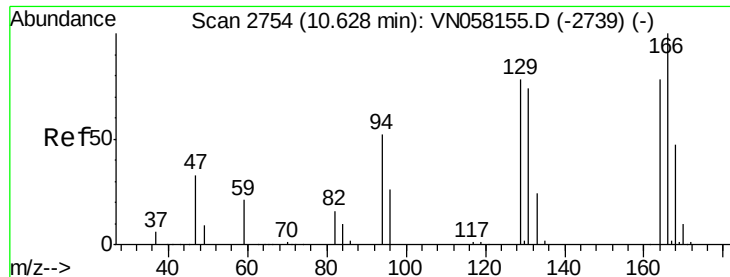
Ion Ratio Lower Upper

117 100

82 57.6 46.9 70.3

119 32.0 25.3 37.9





#64

Tetrachloroethene

Concen: 2.426 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN058263.D

Acq: 20 Sep 2019 20:01

Instrument :

MSVOA_N

ClientSampleId :

RE108D1-20190918

Tgt Ion:164 Resp: 7887

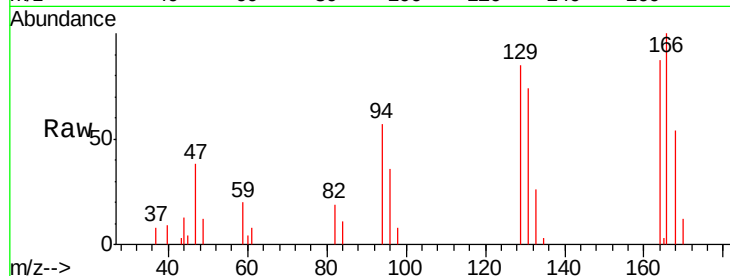
Ion Ratio Lower Upper

164 100

166 115.4 102.2 153.4

129 98.4 79.6 119.4

131 85.7 76.0 114.0

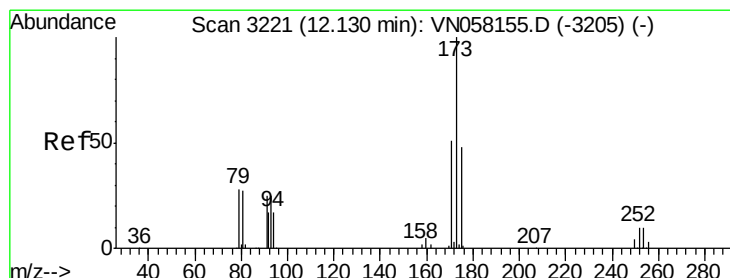
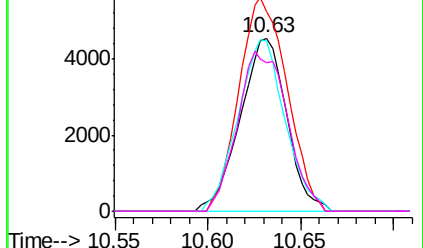
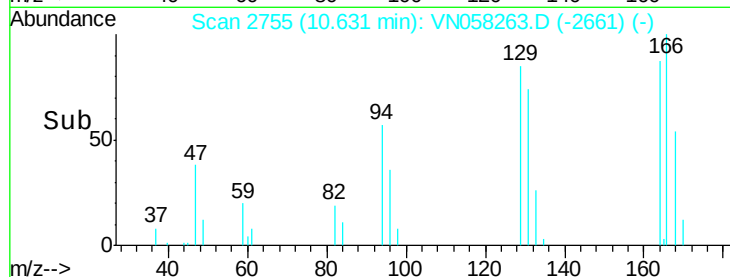


Abundance Ion 163.80 (163.50 to 164.50): V

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: 3.999 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN058263.D

Acq: 20 Sep 2019 20:01

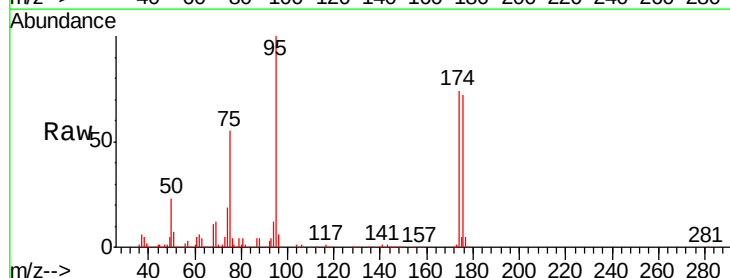
Tgt Ion:173 Resp: 1372

Ion Ratio Lower Upper

173 100

175 1084.5 24.2 72.6#

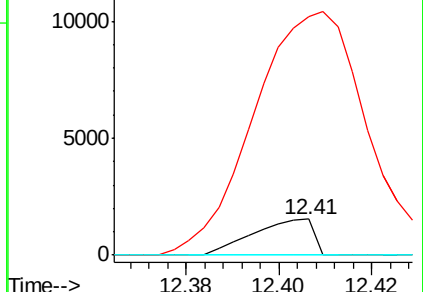
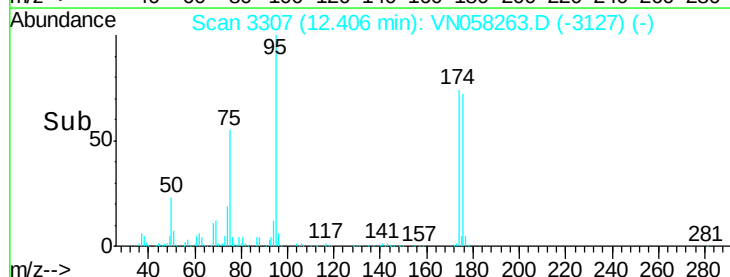
254 0.0 0.1 0.1#

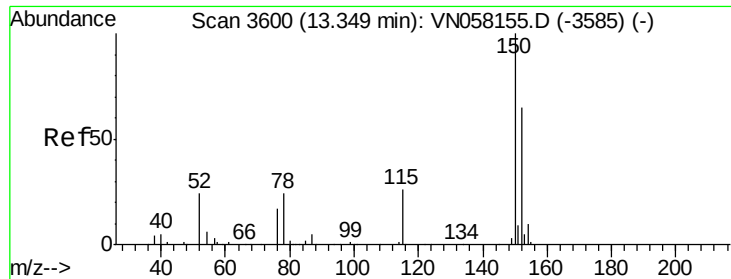


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN058263.D

Acq: 20 Sep 2019 20:01

Instrument :

MSVOA_N

ClientSampleId :

RE108D1-20190918

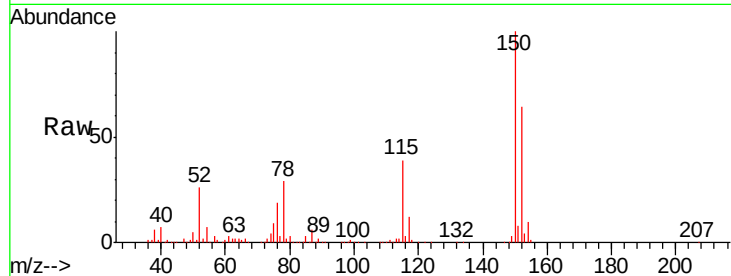
Tgt Ion: 152 Resp: 269726

Ion Ratio Lower Upper

152 100

115 61.7 30.1 90.3

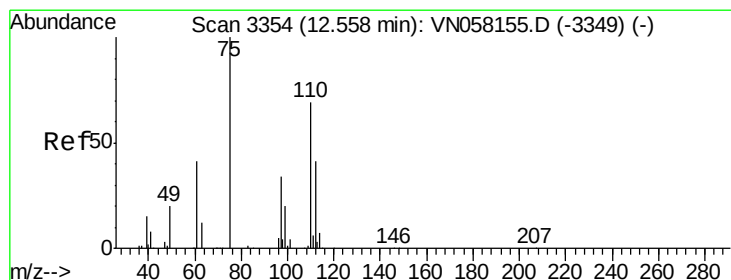
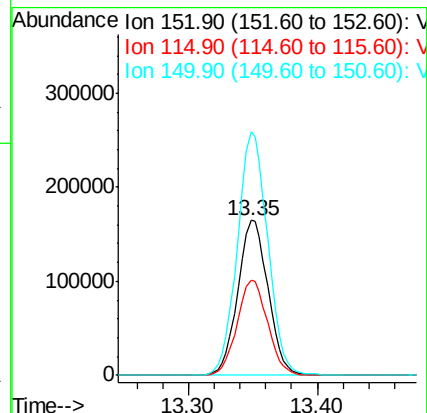
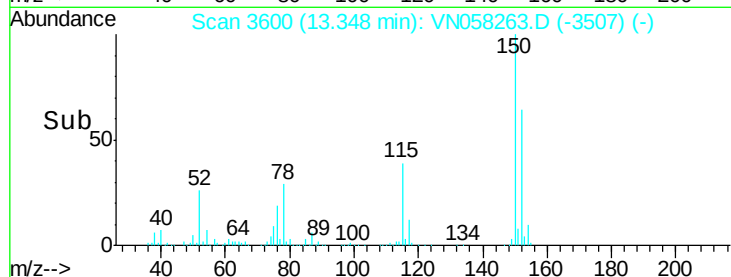
150 156.9 0.0 346.4



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: 35.544 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058263.D

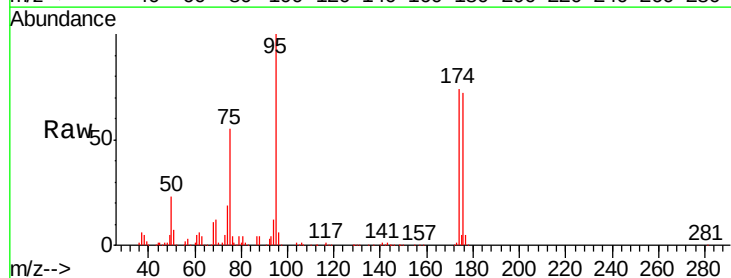
Acq: 20 Sep 2019 20:01

Tgt Ion: 75 Resp: 171579

Ion Ratio Lower Upper

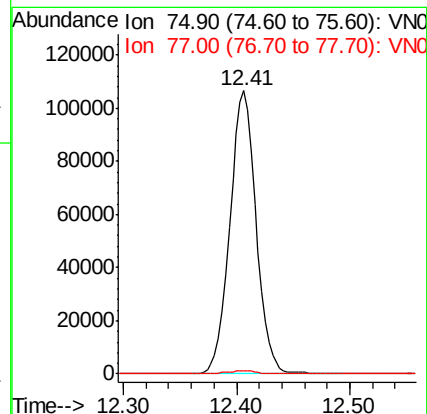
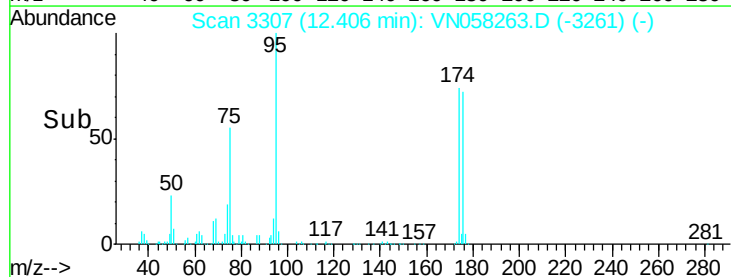
75 100

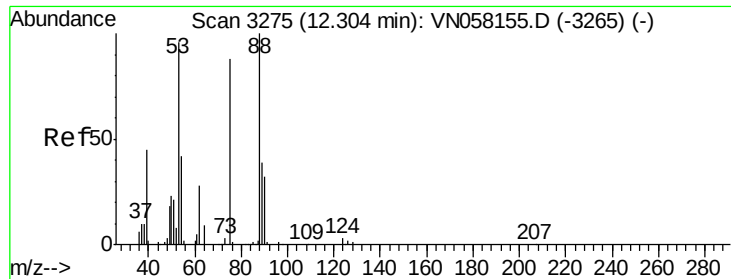
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 99.339 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058263.D

Acq: 20 Sep 2019 20:01

Instrument :

MSVOA_N

ClientSampleId :

RE108D1-20190918

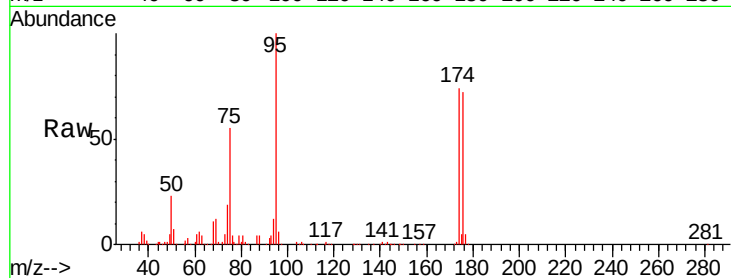
Tgt Ion: 75 Resp: 171579

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

