

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN092019\
 Data File : VN058259.D
 Acq On : 20 Sep 2019 18:33
 Operator : JC/SP
 Sample : K4974-08DL 5X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE134D3-20190916DL

Quant Time: Sep 20 23:52:37 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	490928	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	796887	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	687524	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	277455	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	357664	52.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.62%	
35) Dibromofluoromethane	7.58	113	241423	49.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.68%	
50) Toluene-d8	10.09	98	1001194	53.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.08%	
62) 4-Bromofluorobenzene	12.41	95	319770	45.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.22%	

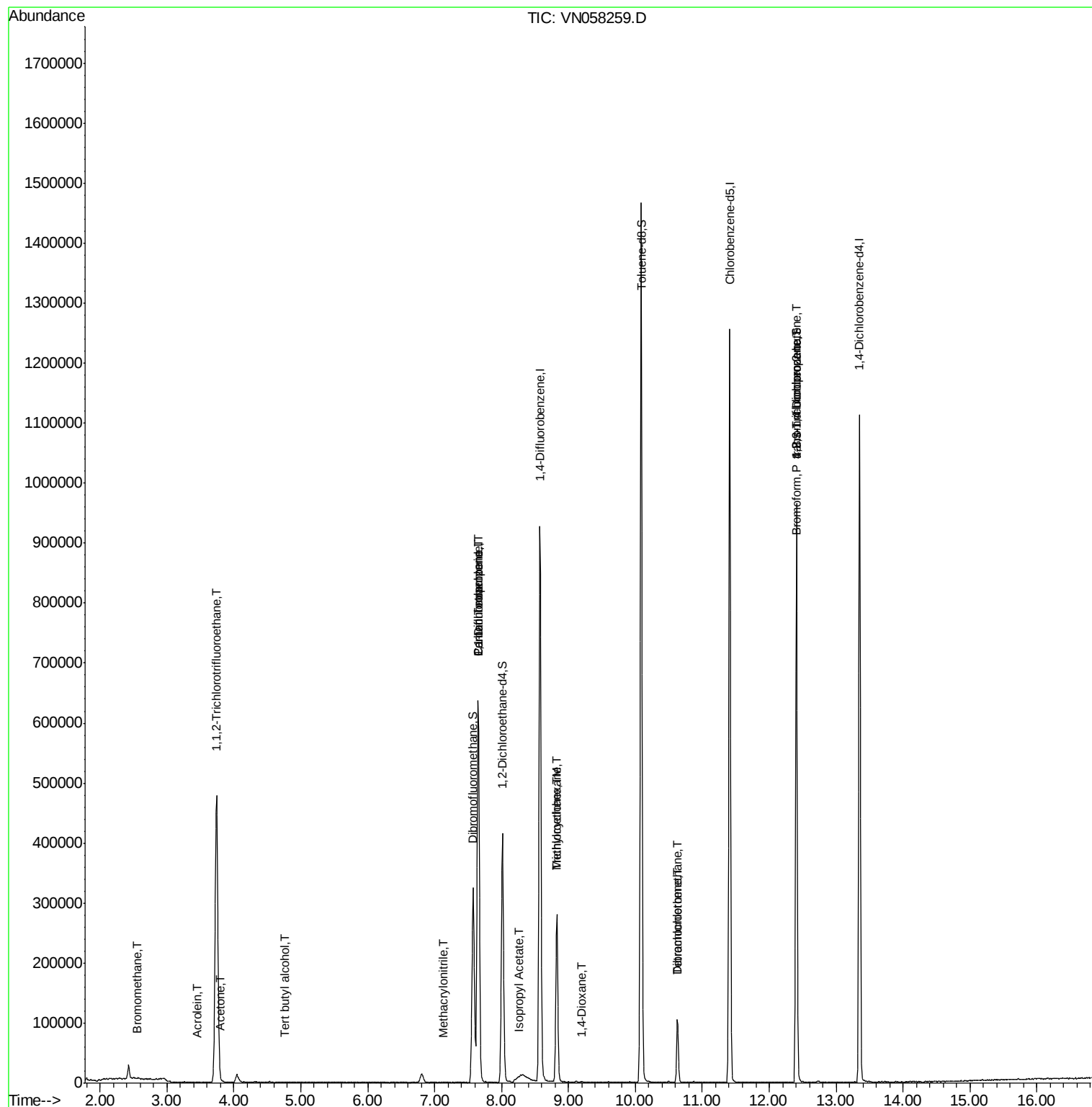
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	666	Below Cal	#	71
5) Bromomethane	2.55	94	184	0.823	ug/l #	4
6) Chloroethane	2.68	64	63	Below Cal	#	44
9) 1,1,2-Trichlorotrifluoroet	3.74	101	290583	73.217	ug/l	99
11) Tert butyl alcohol	4.76	59	409	0.503	ug/l #	71
13) Acrolein	3.45	56	31	0.257	ug/l #	15
16) Acetone	3.81	43	3112	1.341	ug/l	99
20) Methylene Chloride	4.53	84	598	Below Cal	#	61
31) Cyclohexane	7.65	56	12348	Below Cal	#	39
36) 1,1-Dichloropropene	7.65	75	41566	7.233	ug/l #	51
38) Carbon Tetrachloride	7.65	117	49563	8.580	ug/l #	15
39) Methylcyclohexane	8.83	83	1300	0.305	ug/l #	1
41) Methacrylonitrile	7.12	41	107	0.946	ug/l #	100
43) Isopropyl Acetate	8.25	43	10055	0.903	ug/l #	57
44) Trichloroethene	8.83	130	99299	23.118	ug/l	99
49) 1,4-Dioxane	9.21	88	162	1.951	ug/l #	55
60) Dibromochloromethane	10.63	129	22633	4.819	ug/l #	11
64) Tetrachloroethene	10.63	164	22792	6.801	ug/l	95
71) Bromoform	12.39	173	217	3.657	ug/l #	29
76) 1,2,3-Trichloropropane	12.41	75	175527	35.349	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	175527	98.825	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: VN058259.D

Acq: 20 Sep 2019 18:33

Instrument :

MSVOA_N

ClientSampleId :

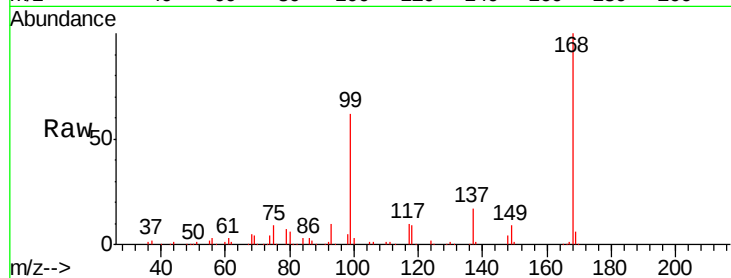
RE134D3-20190916DL

Tgt Ion: 168 Resp: 490928

Ion Ratio Lower Upper

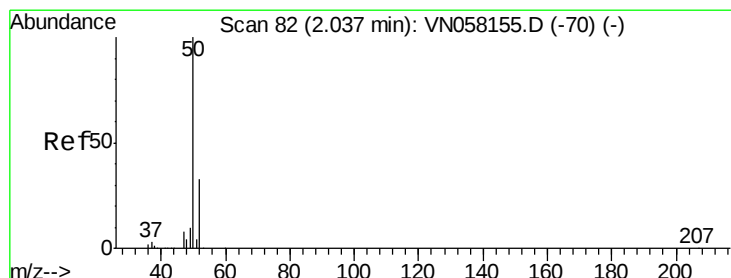
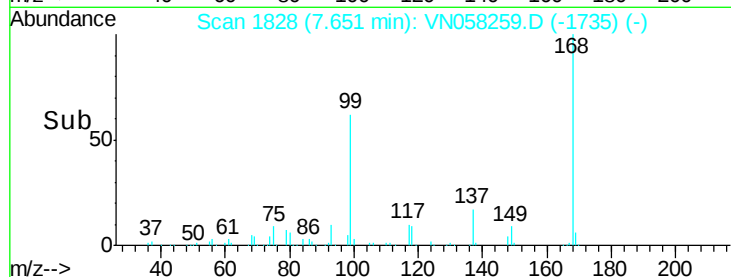
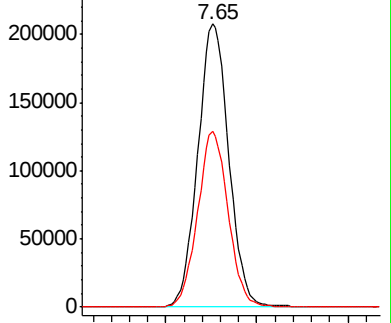
168 100

99 62.0 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 84

Delta R.T. 0.01 min

Lab File: VN058259.D

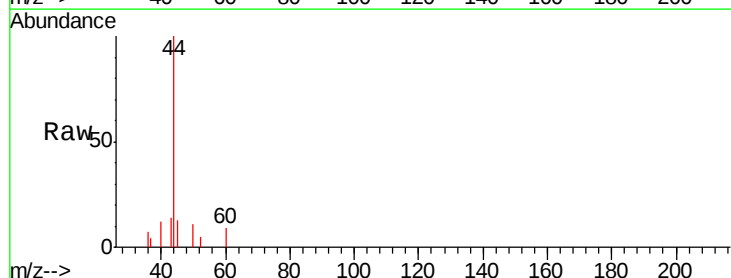
Acq: 20 Sep 2019 18:33

Tgt Ion: 50 Resp: 666

Ion Ratio Lower Upper

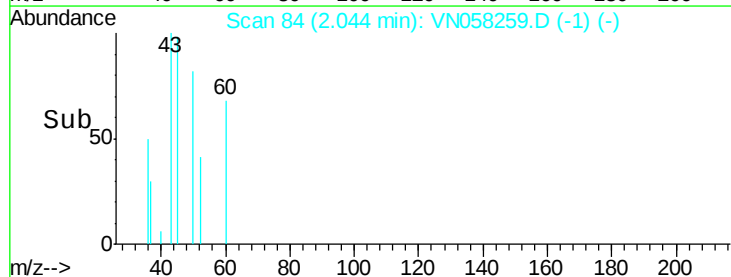
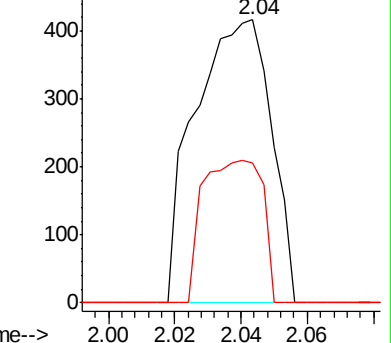
50 100

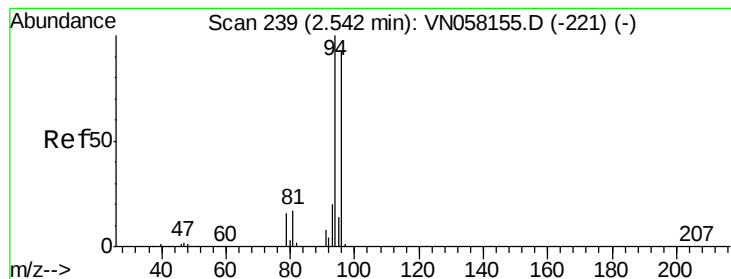
52 49.4 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO





#5

Bromomethane

Concen: 0.823 ug/l

RT: 2.55 min Scan# 242

Delta R.T. 0.01 min

Lab File: VN058259.D

Acq: 20 Sep 2019 18:33

Instrument :

MSVOA_N

ClientSampleId :

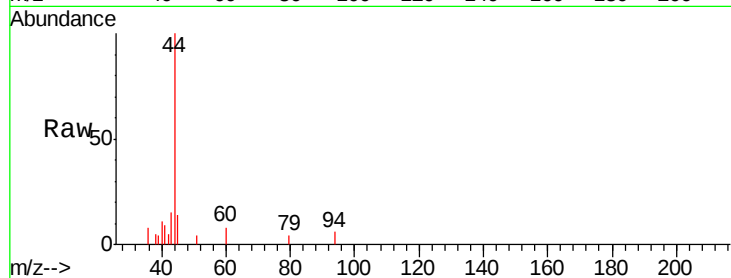
RE134D3-20190916DL

Tgt Ion: 94 Resp: 184

Ion Ratio Lower Upper

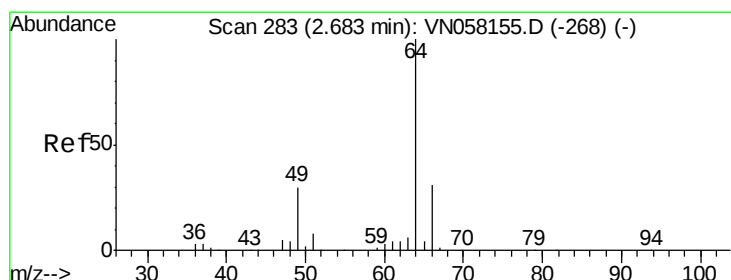
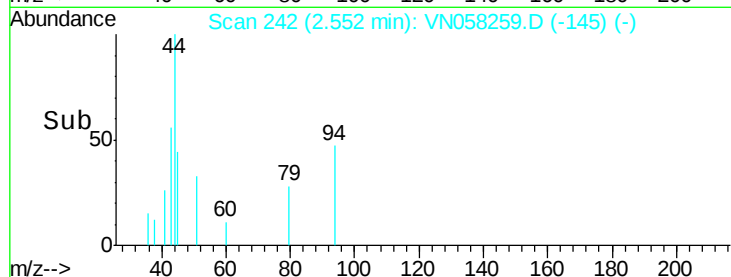
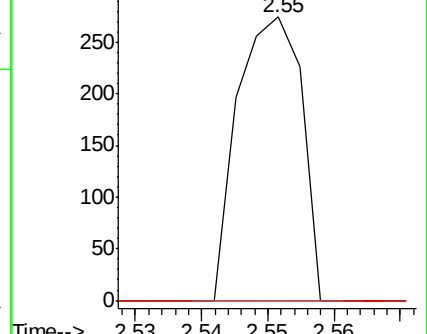
94 100

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: 2.68 min Scan# 282

Delta R.T. -0.00 min

Lab File: VN058259.D

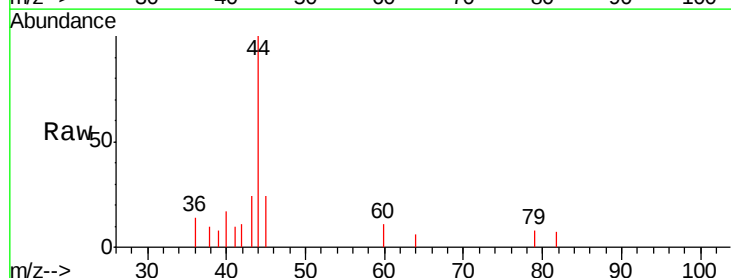
Acq: 20 Sep 2019 18:33

Tgt Ion: 64 Resp: 63

Ion Ratio Lower Upper

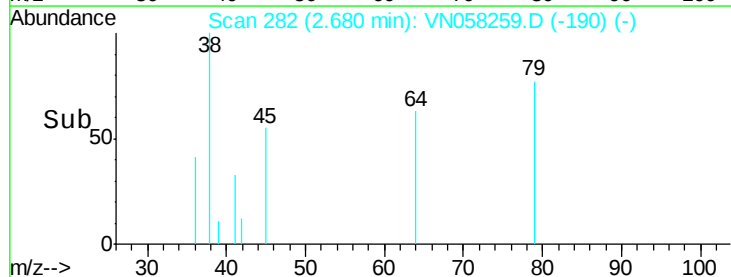
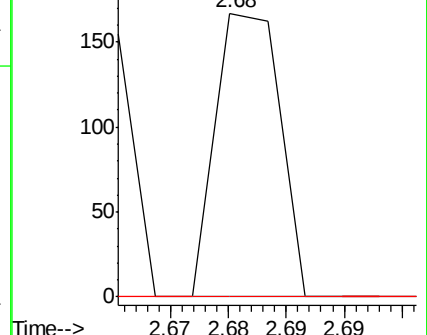
64 100

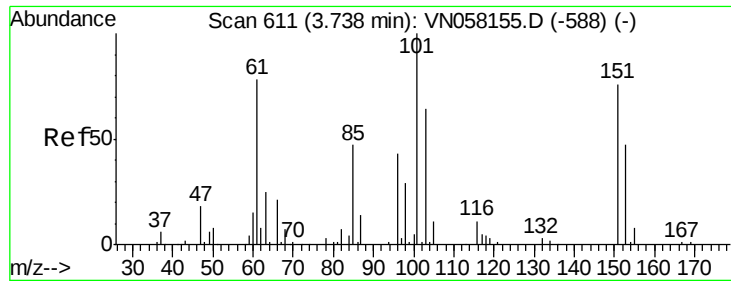
66 0.0 24.6 37.0#



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: 73.217 ug/l

RT: 3.74 min Scan# 612

Delta R.T. 0.00 min

Lab File: VN058259.D

Acq: 20 Sep 2019 18:33

Instrument :

MSVOA_N

ClientSampleId :

RE134D3-20190916DL

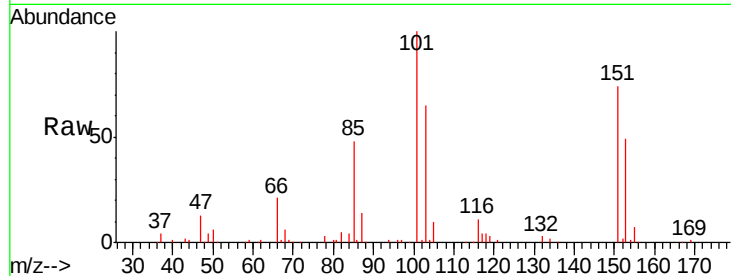
Tgt Ion:101 Resp: 290583

Ion Ratio Lower Upper

101 100

85 47.4 37.3 55.9

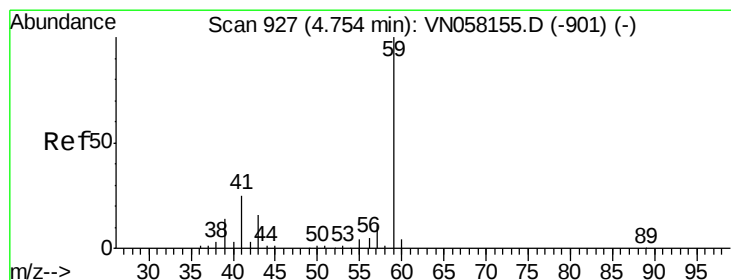
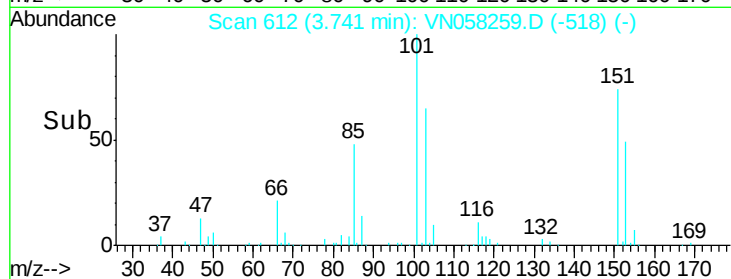
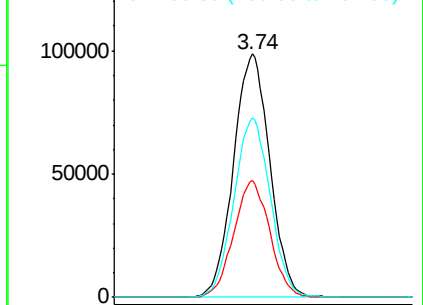
151 73.9 59.6 89.4



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



#11

Tert butyl alcohol

Concen: 0.503 ug/l

RT: 4.76 min Scan# 928

Delta R.T. 0.00 min

Lab File: VN058259.D

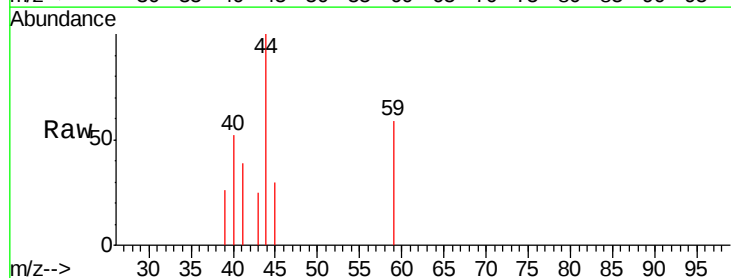
Acq: 20 Sep 2019 18:33

Tgt Ion: 59 Resp: 409

Ion Ratio Lower Upper

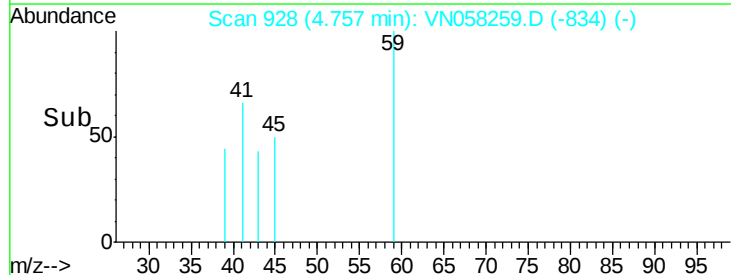
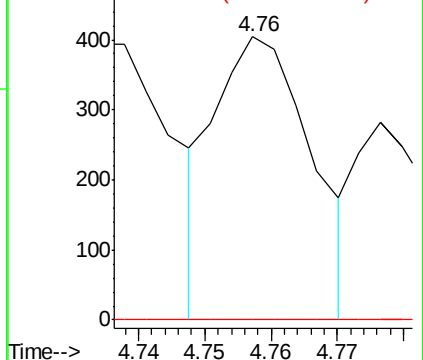
59 100

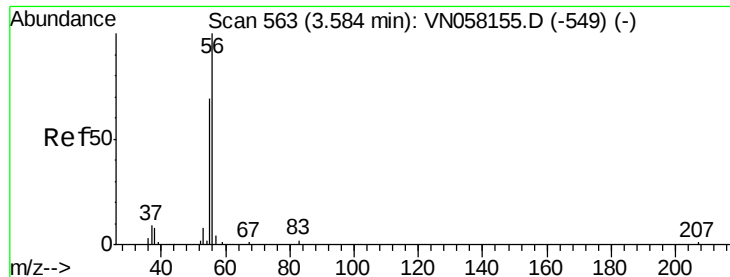
57 0.0 8.6 13.0#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#13

Acrolein

Concen: 0.257 ug/l

RT: 3.45 min Scan# 521

Delta R.T. -0.14 min

Lab File: VN058259.D

Acq: 20 Sep 2019 18:33

Instrument :

MSVOA_N

ClientSampleId :

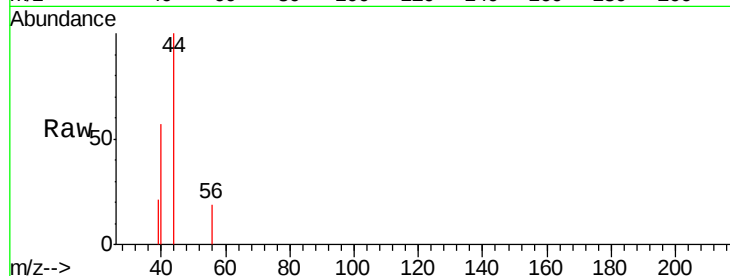
RE134D3-20190916DL

Tgt Ion: 56 Resp: 31

Ion Ratio Lower Upper

56 100

55 0.0 56.1 84.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.45

150

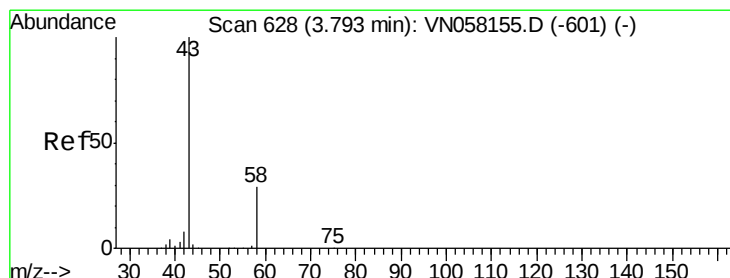
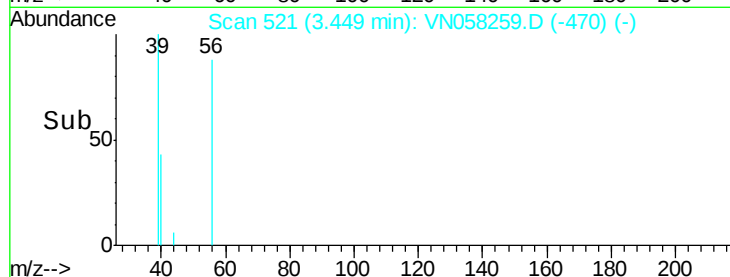
100

50

0

3.44 3.44 3.45 3.46

Time-->



#16

Acetone

Concen: 1.341 ug/l

RT: 3.81 min Scan# 632

Delta R.T. 0.01 min

Lab File: VN058259.D

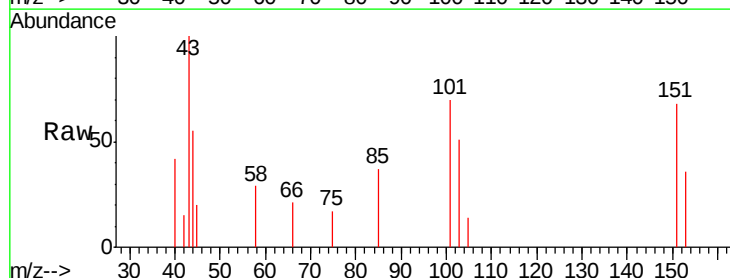
Acq: 20 Sep 2019 18:33

Tgt Ion: 43 Resp: 3112

Ion Ratio Lower Upper

43 100

58 29.0 23.4 35.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

1500

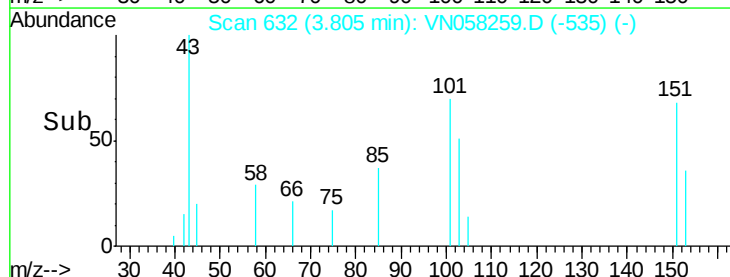
1000

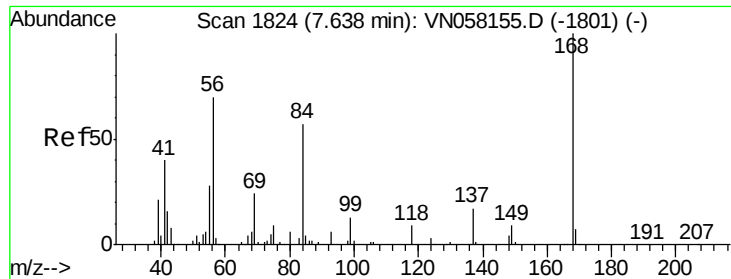
500

0

3.75 3.80 3.85

Time-->

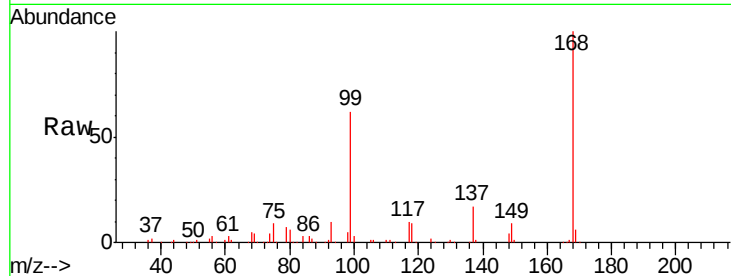




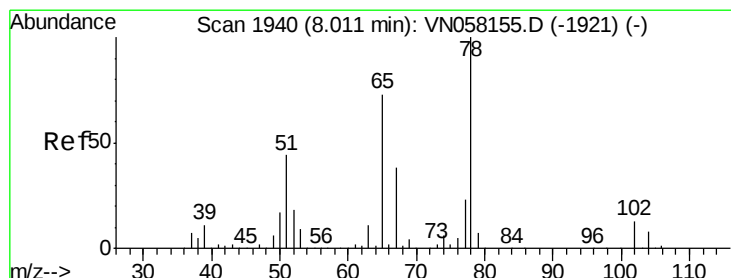
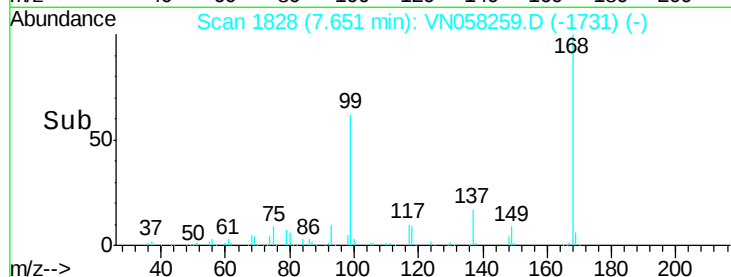
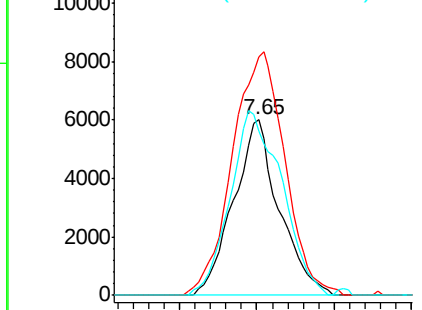
#31
Cyclohexane
Concen: Below Cal
RT: 7.65 min Scan# 1828
Delta R.T. 0.01 min
Lab File: VN058259.D
Acq: 20 Sep 2019 18:33

Instrument :
MSVOA_N
ClientSampleId :
RE134D3-20190916DL

Tgt Ion: 56 Resp: 12348
Ion Ratio Lower Upper
56 100
69 133.6 27.3 40.9#
84 93.9 65.0 97.4

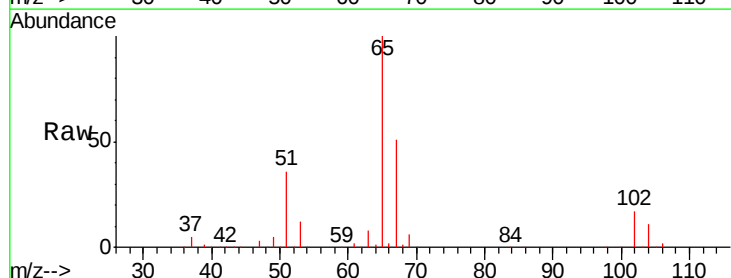


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

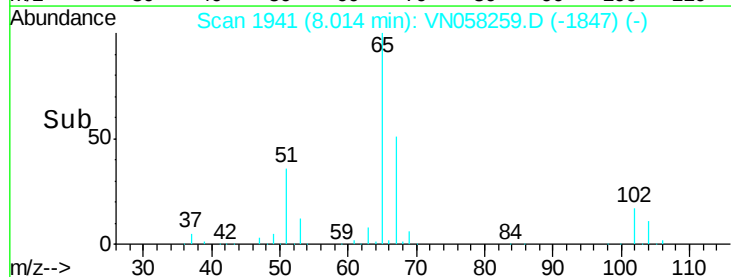
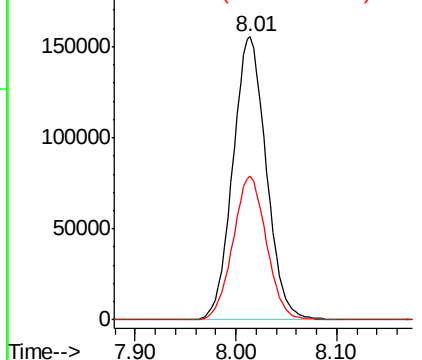


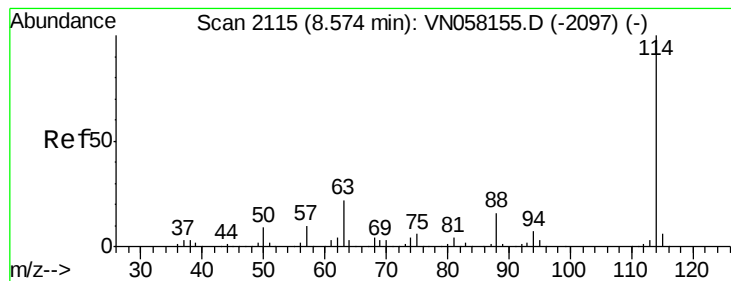
#33
1,2-Dichloroethane-d4
Concen: 52.308 ug/l
RT: 8.01 min Scan# 1941
Delta R.T. 0.00 min
Lab File: VN058259.D
Acq: 20 Sep 2019 18:33

Tgt Ion: 65 Resp: 357664
Ion Ratio Lower Upper
65 100
67 50.9 0.0 103.4



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. 0.00 min

Lab File: VN058259.D

Acq: 20 Sep 2019 18:33

Instrument :

MSVOA_N

ClientSampleId :

RE134D3-20190916DL

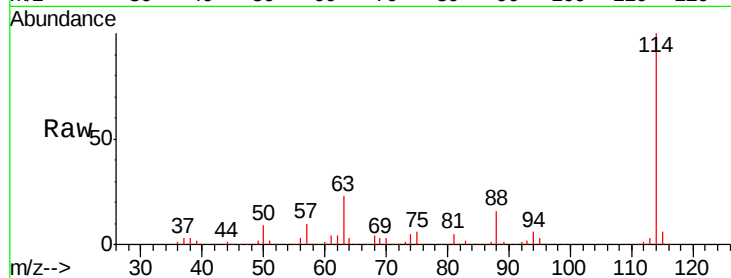
Tgt Ion:114 Resp: 796887

Ion Ratio Lower Upper

114 100

63 23.0 0.0 44.2

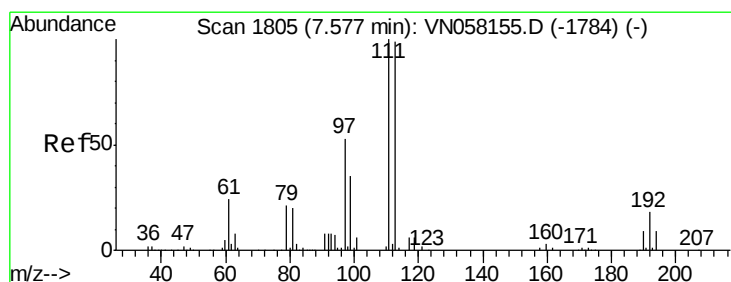
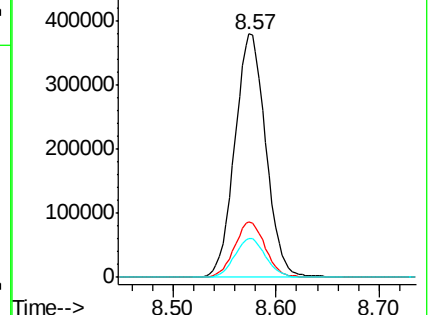
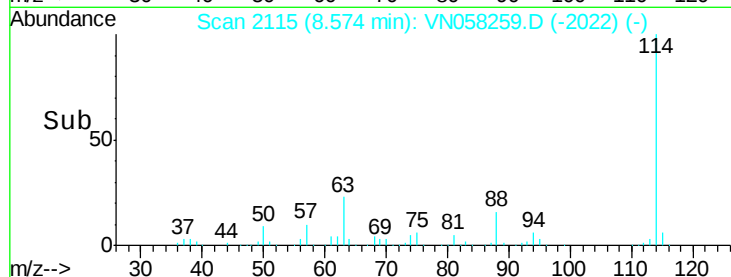
88 15.9 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 49.835 ug/l

RT: 7.58 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VN058259.D

Acq: 20 Sep 2019 18:33

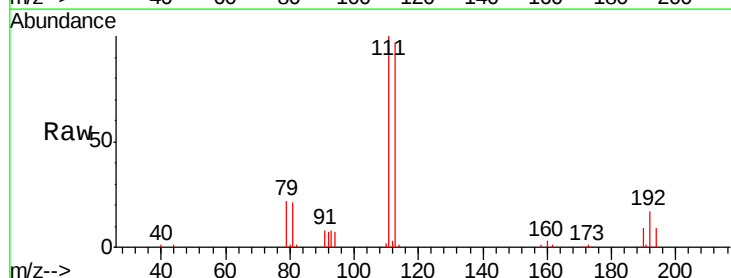
Tgt Ion:113 Resp: 241423

Ion Ratio Lower Upper

113 100

111 105.1 81.8 122.6

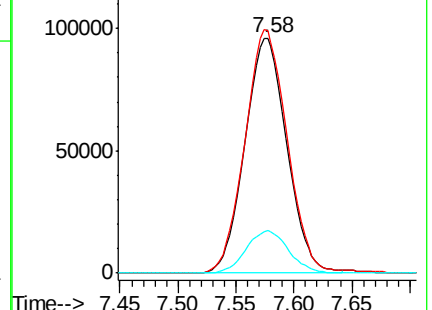
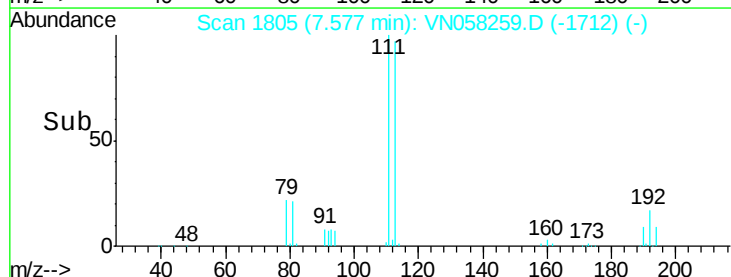
192 18.2 14.5 21.7

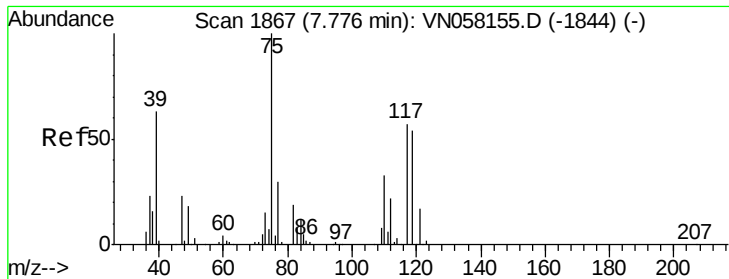


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 7.233 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.13 min

Lab File: VN058259.D

Acq: 20 Sep 2019 18:33

Instrument :

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RE134D3-20190916DL

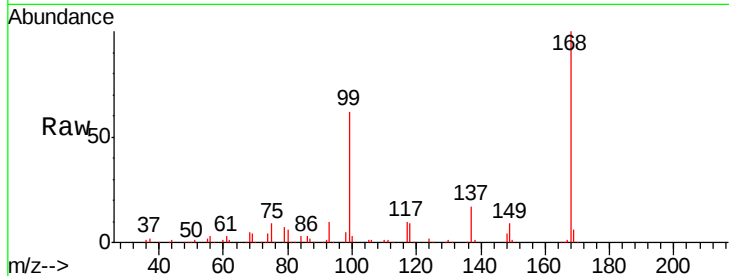
Tgt Ion: 75 Resp: 41566

Ion Ratio Lower Upper

75 100

110 8.7 16.6 49.7#

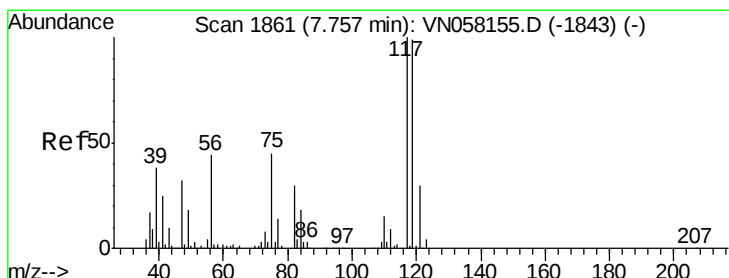
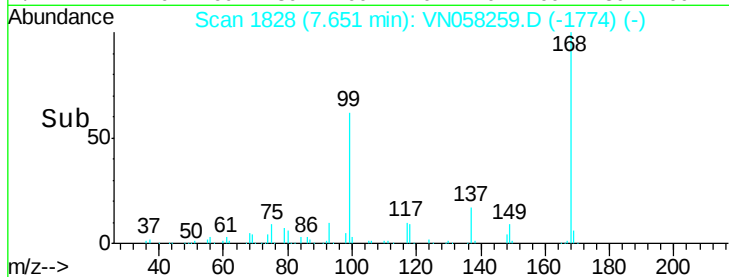
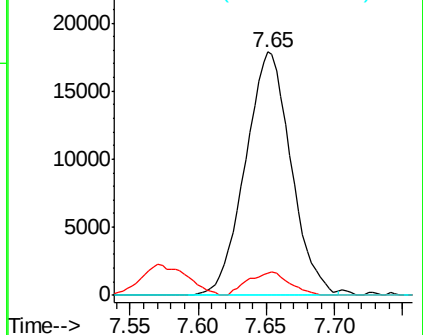
77 0.0 24.3 36.5#



Abundance Ion 74.90 (74.60 to 75.60): VN058259.D (-1774) (-)

Ion 109.90 (109.60 to 110.60): VN058259.D (-1774) (-)

Ion 76.90 (76.60 to 77.60): VN058259.D (-1774) (-)



#38

Carbon Tetrachloride

Concen: 8.580 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058259.D

Acq: 20 Sep 2019 18:33

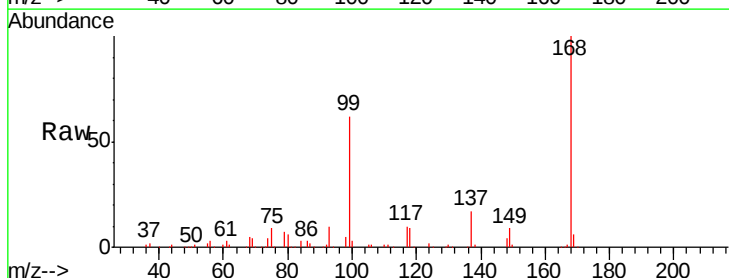
Tgt Ion: 117 Resp: 49563

Ion Ratio Lower Upper

117 100

119 4.7 78.6 117.8#

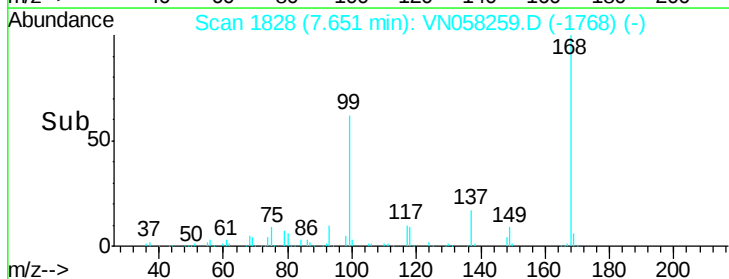
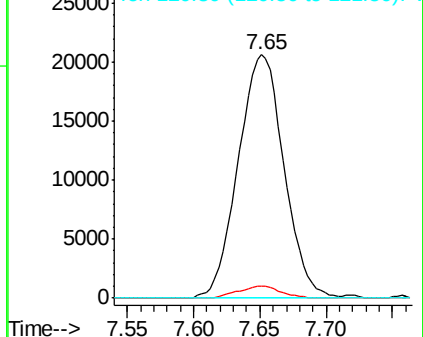
121 0.0 24.1 36.1#

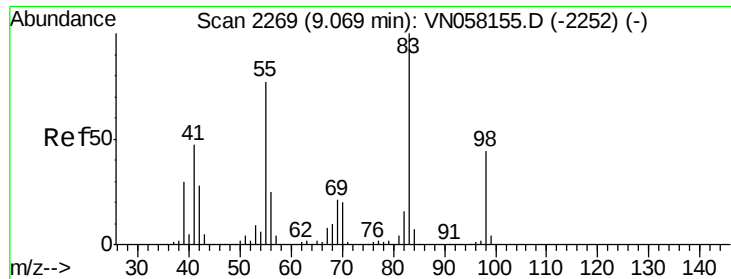


Abundance Ion 116.80 (116.50 to 117.50): VN058259.D (-1768) (-)

Ion 118.80 (118.50 to 119.50): VN058259.D (-1768) (-)

Ion 120.80 (120.50 to 121.50): VN058259.D (-1768) (-)

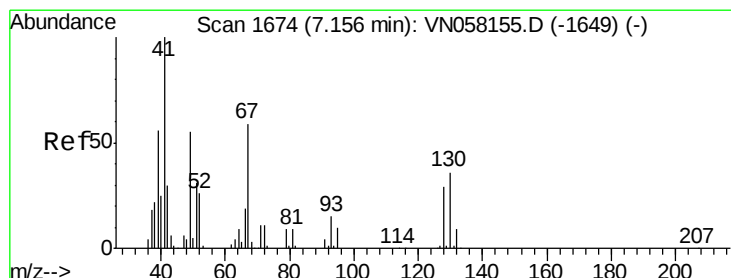
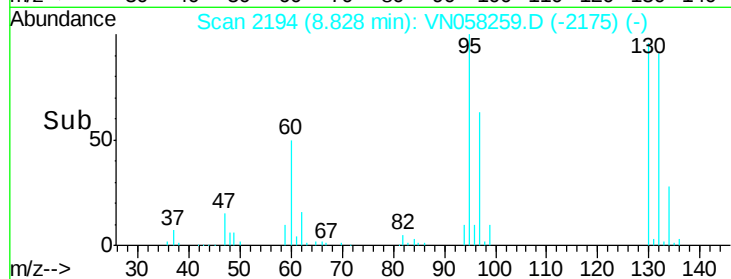
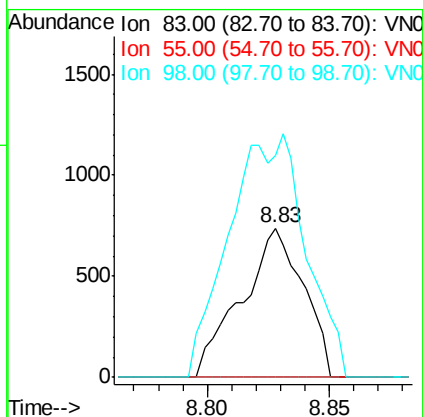
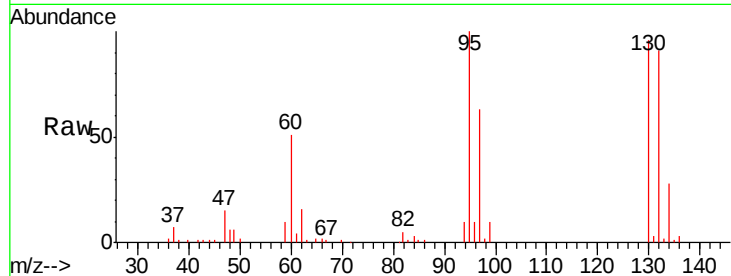




#39
Methylcyclohexane
Concen: 0.305 ug/l
RT: 8.83 min Scan# 2194
Delta R.T. -0.24 min
Lab File: VN058259.D
Acq: 20 Sep 2019 18:33

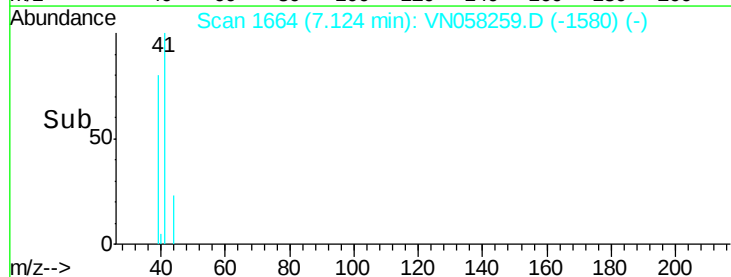
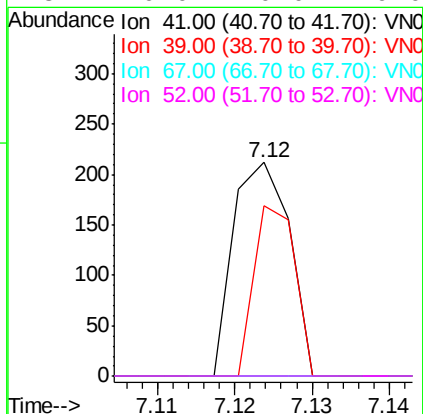
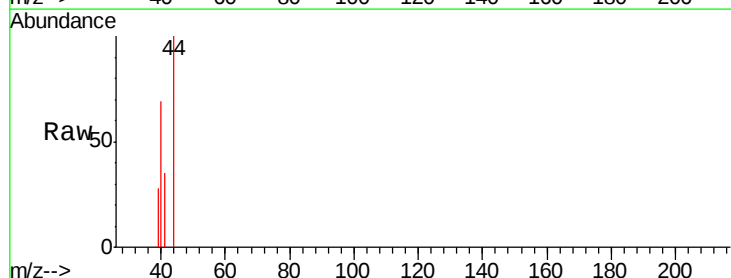
Instrument :
MSVOA_N
ClientSampleId :
RE134D3-20190916DL

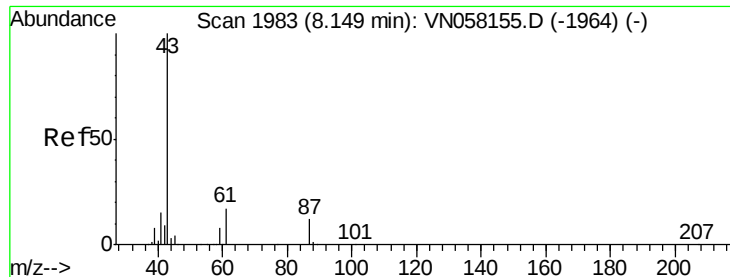
Tgt Ion: 83 Resp: 1300
Ion Ratio Lower Upper
83 100
55 0.0 61.9 92.9#
98 148.6 35.4 53.2#



#41
Methacrylonitrile
Concen: 0.946 ug/l
RT: 7.12 min Scan# 1664
Delta R.T. -0.03 min
Lab File: VN058259.D
Acq: 20 Sep 2019 18:33

Tgt Ion: 41 Resp: 107
Ion Ratio Lower Upper
41 100
39 58.9 0.0 0.0#
67 0.0 0.0 0.0
52 0.0 0.0 0.0





#43

Isopropyl Acetate

Concen: 0.903 ug/l

RT: 8.25 min Scan# 2014

Delta R.T. 0.10 min

Lab File: VN058259.D

Acq: 20 Sep 2019 18:33

Instrument :

MSVOA_N

ClientSampleId :

RE134D3-20190916DL

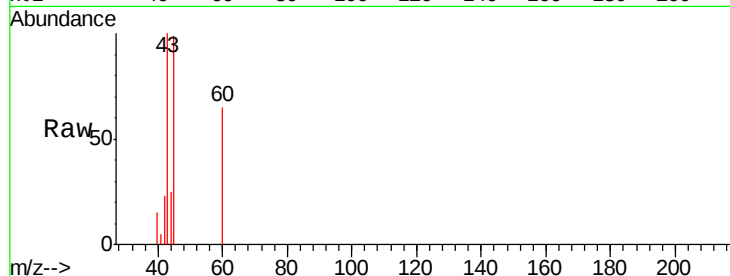
Tgt Ion: 43 Resp: 10055

Ion Ratio Lower Upper

43 100

61 0.0 19.7 29.5#

87 0.0 9.4 14.2#

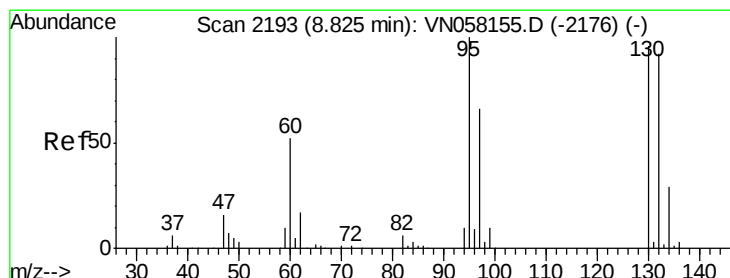
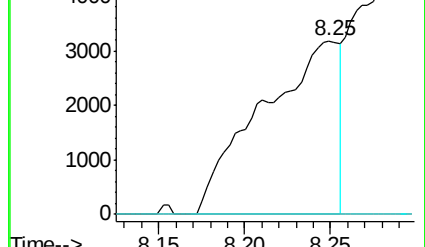
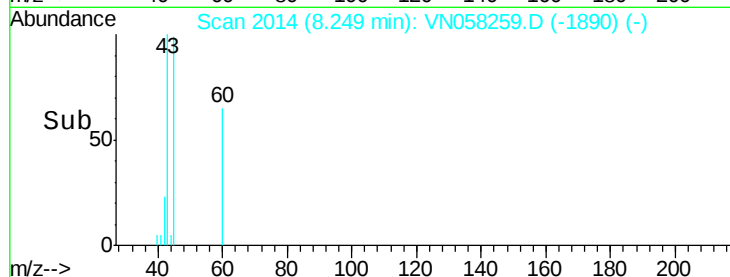


Abundance Ion 43.00 (42.70 to 43.70): VN058259.D (-2014) (-)

Ion 61.00 (60.70 to 61.70): VN058259.D (-2014) (-)

Ion 87.00 (86.70 to 87.70): VN058259.D (-2014) (-)

Time-->



#44

Trichloroethene

Concen: 23.118 ug/l

RT: 8.83 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VN058259.D

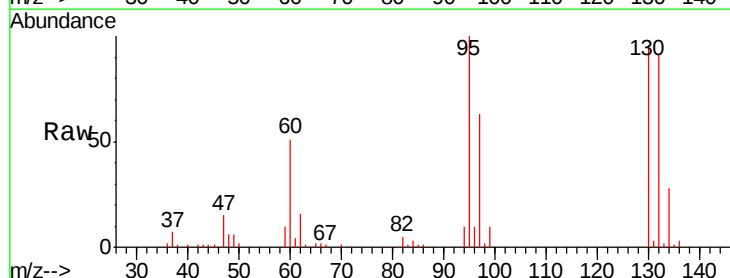
Acq: 20 Sep 2019 18:33

Tgt Ion: 130 Resp: 99299

Ion Ratio Lower Upper

130 100

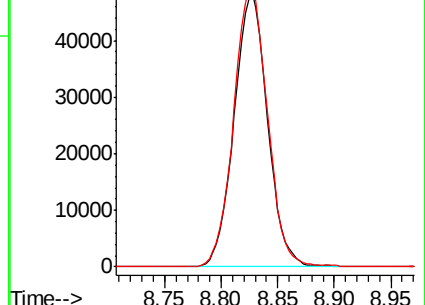
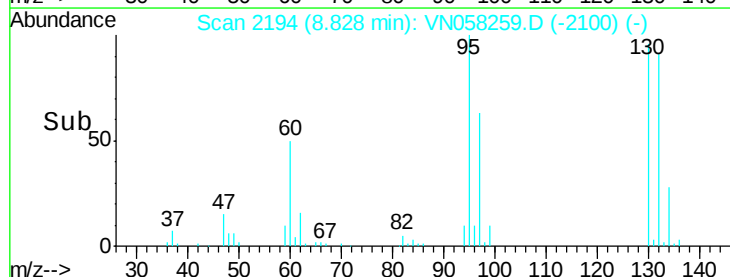
95 104.5 0.0 207.8

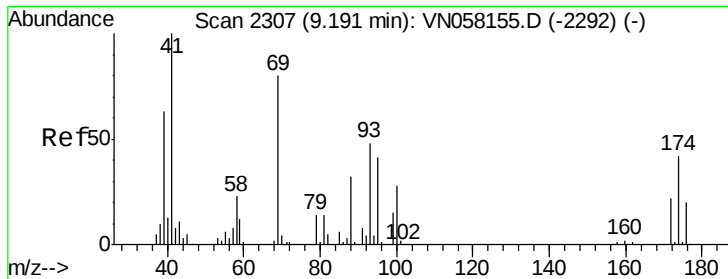


Abundance Ion 129.80 (129.50 to 130.50): VN058259.D (-2194) (-)

Ion 94.90 (94.60 to 95.60): VN058259.D (-2194) (-)

Time-->

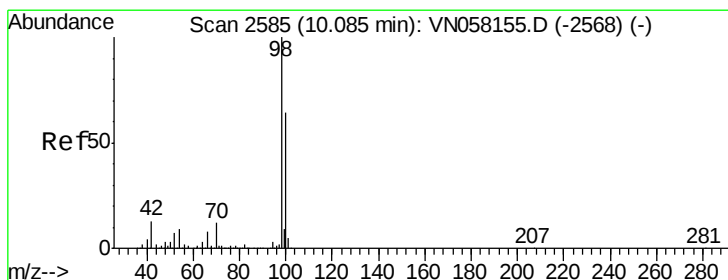
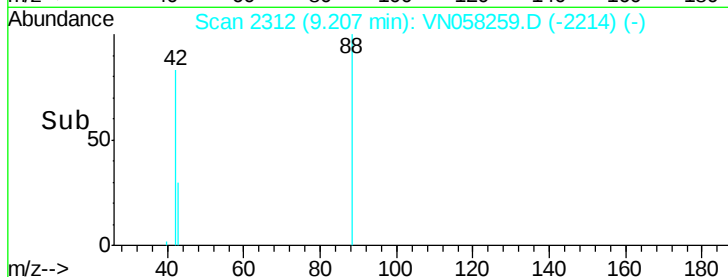
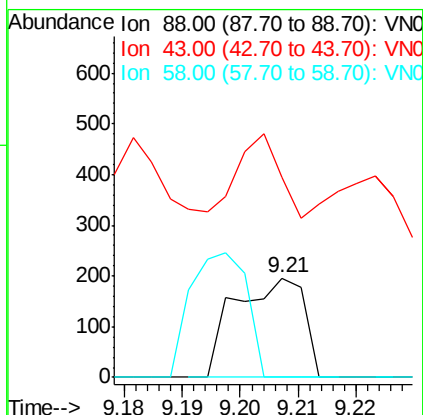
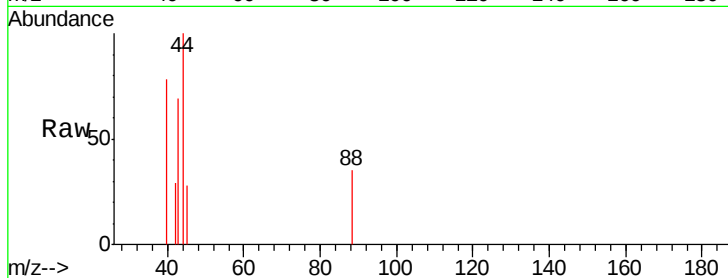




#49
 1,4-Dioxane
 Concen: 1.951 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.02 min
 Lab File: VN058259.D
 Acq: 20 Sep 2019 18:33

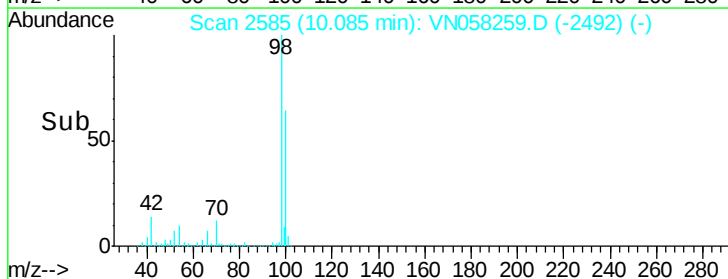
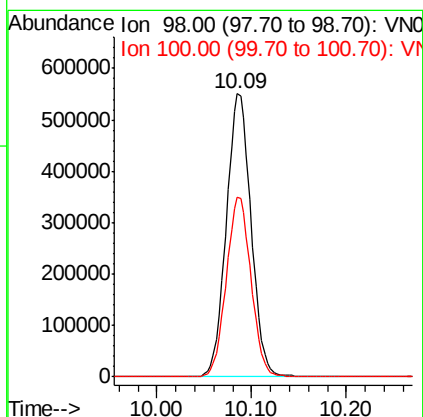
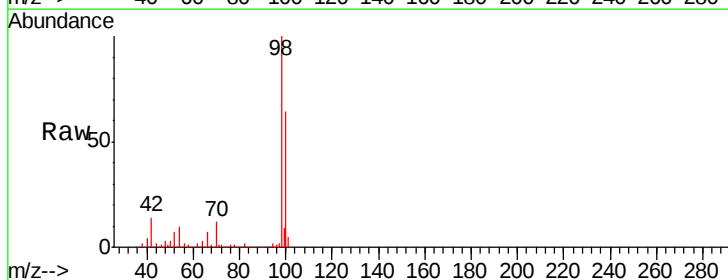
Instrument :
 MSVOA_N
 ClientSampleId :
 RE134D3-20190916DL

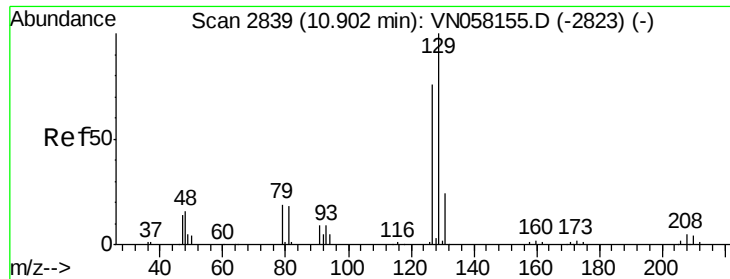
Tgt Ion: 88 Resp: 162
 Ion Ratio Lower Upper
 88 100
 43 64.8 27.8 41.8#
 58 101.9 55.0 82.4#



#50
 Toluene-d8
 Concen: 53.044 ug/l
 RT: 10.09 min Scan# 2585
 Delta R.T. 0.00 min
 Lab File: VN058259.D
 Acq: 20 Sep 2019 18:33

Tgt Ion: 98 Resp: 1001194
 Ion Ratio Lower Upper
 98 100
 100 63.4 51.1 76.7

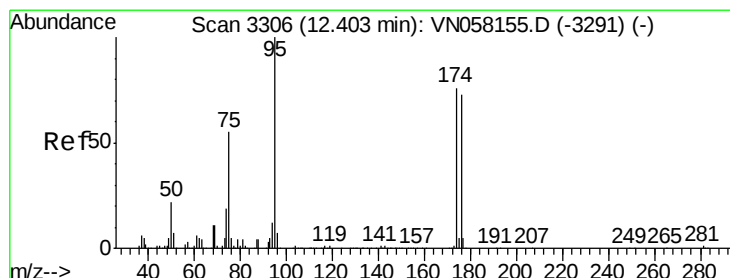
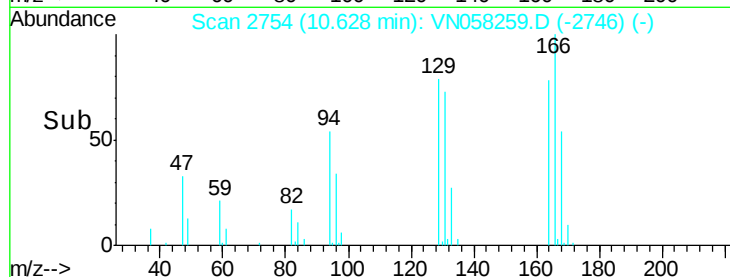
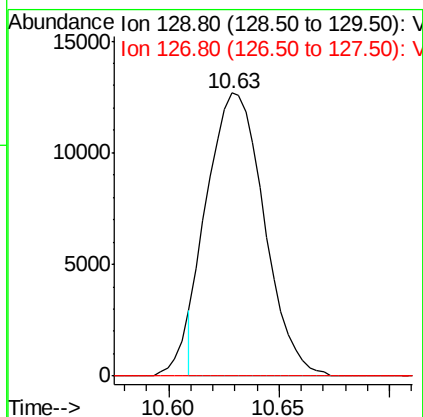
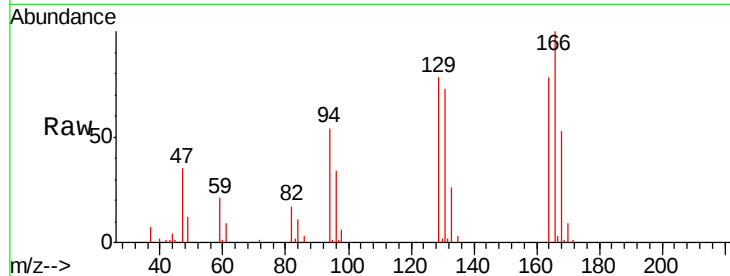




#60
 Dibromochloromethane
 Concen: 4.819 ug/l
 RT: 10.63 min Scan# 2754
 Delta R.T. -0.27 min
 Lab File: VN058259.D
 Acq: 20 Sep 2019 18:33

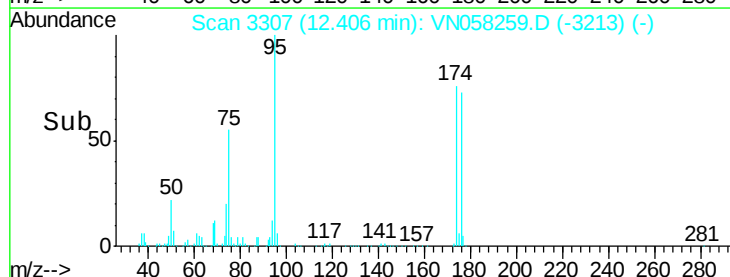
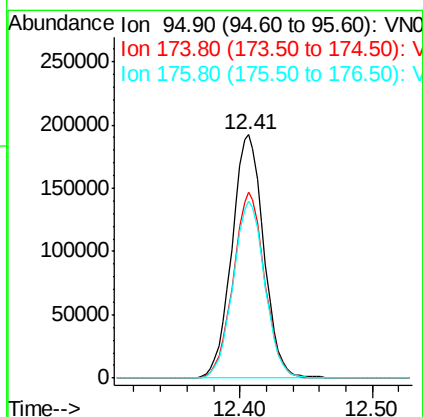
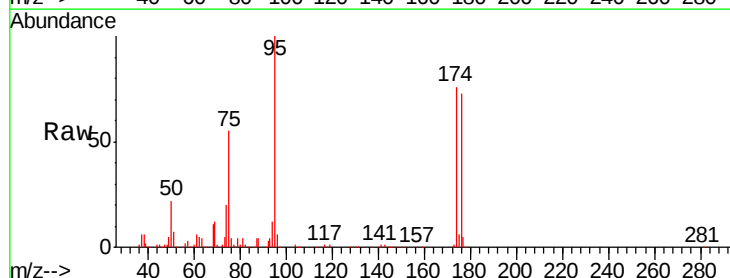
Instrument :
 MSVOA_N
 ClientSampleId :
 RE134D3-20190916DL

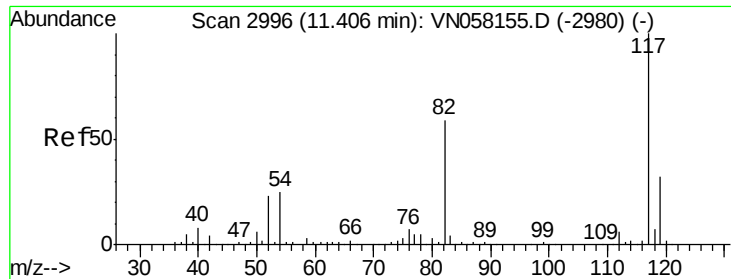
Tgt Ion: 129 Resp: 22633
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.7 116.1#



#62
 4-Bromofluorobenzene
 Concen: 45.608 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. 0.00 min
 Lab File: VN058259.D
 Acq: 20 Sep 2019 18:33

Tgt Ion: 95 Resp: 319770
 Ion Ratio Lower Upper
 95 100
 174 75.2 0.0 152.2
 176 72.4 0.0 148.0

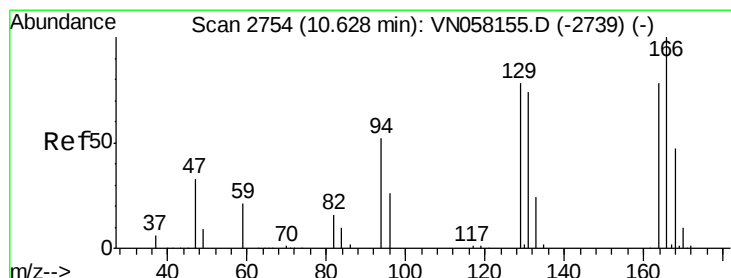
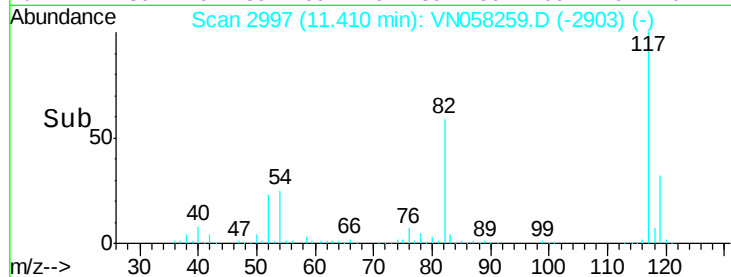
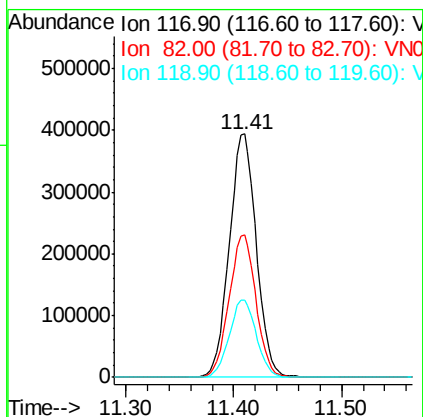
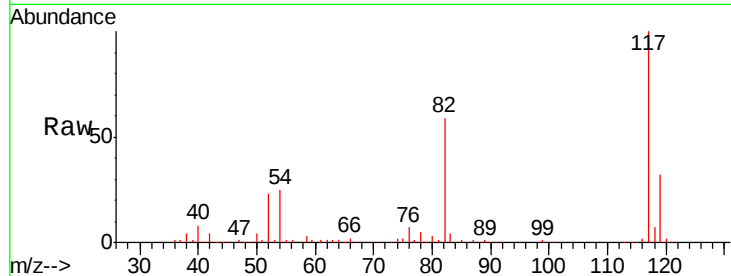




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN058259.D
Acq: 20 Sep 2019 18:33

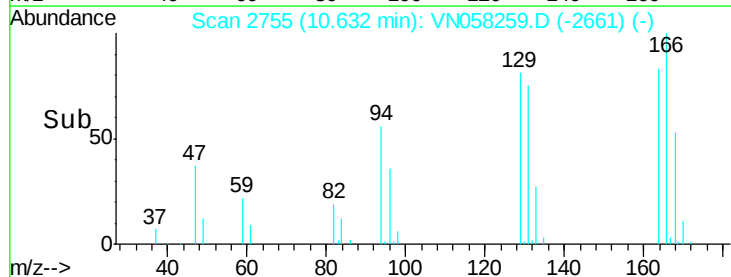
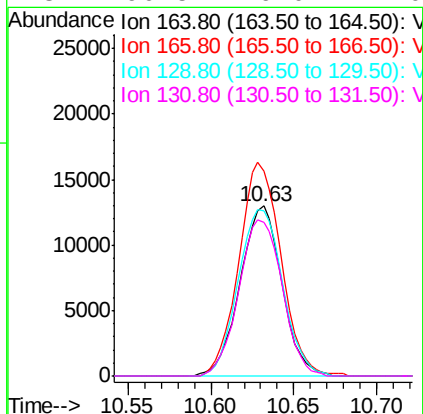
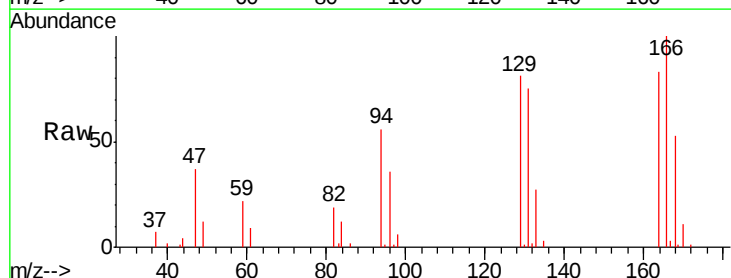
Instrument :
MSVOA_N
ClientSampleId :
RE134D3-20190916DL

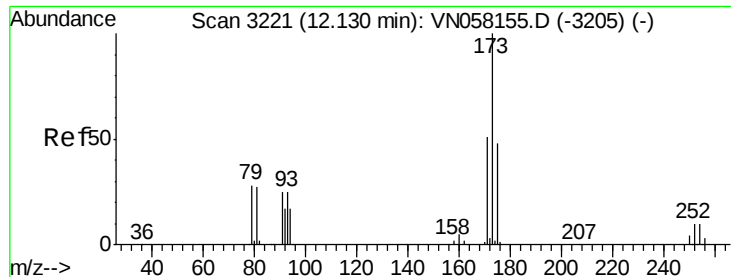
Tgt Ion:117 Resp: 687524
Ion Ratio Lower Upper
117 100
82 58.8 46.9 70.3
119 31.8 25.3 37.9



#64
Tetrachloroethene
Concen: 6.801 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN058259.D
Acq: 20 Sep 2019 18:33

Tgt Ion:164 Resp: 22792
Ion Ratio Lower Upper
164 100
166 120.2 102.2 153.4
129 96.9 79.6 119.4
131 90.5 76.0 114.0





#71

Bromoform

Concen: 3.657 ug/l

RT: 12.39 min Scan# 3302

Delta R.T. 0.26 min

Lab File: VN058259.D

Acq: 20 Sep 2019 18:33

Instrument :

MSVOA_N

ClientSampleId :

RE134D3-20190916DL

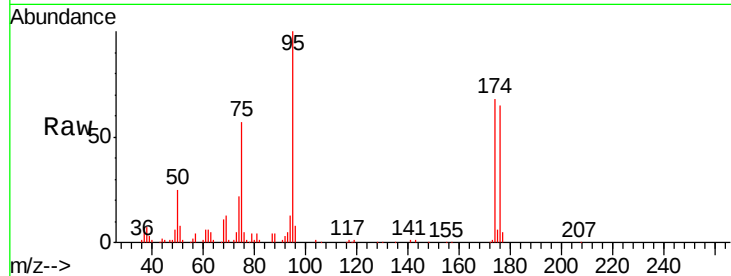
Tgt Ion:173 Resp: 217

Ion Ratio Lower Upper

173 100

175 0.0 24.2 72.6#

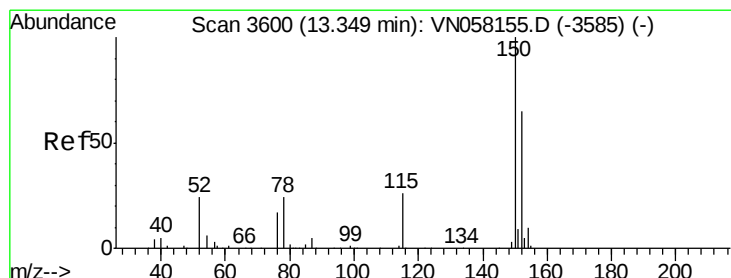
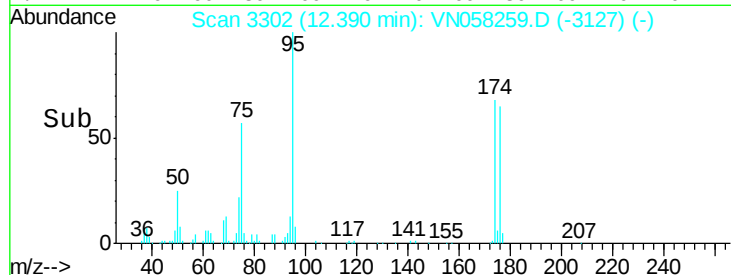
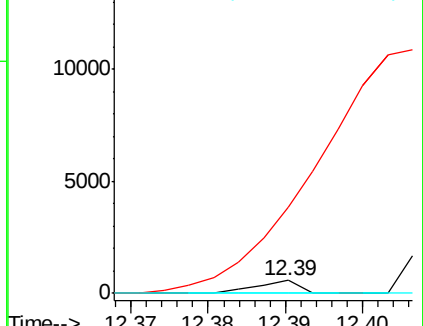
254 0.0 0.1 0.1#



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# 3601

Delta R.T. 0.00 min

Lab File: VN058259.D

Acq: 20 Sep 2019 18:33

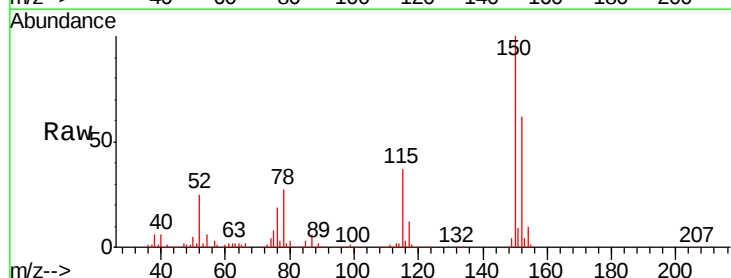
Tgt Ion:152 Resp: 277455

Ion Ratio Lower Upper

152 100

115 60.9 30.1 90.3

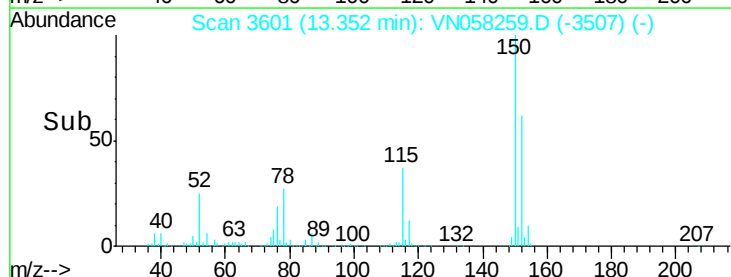
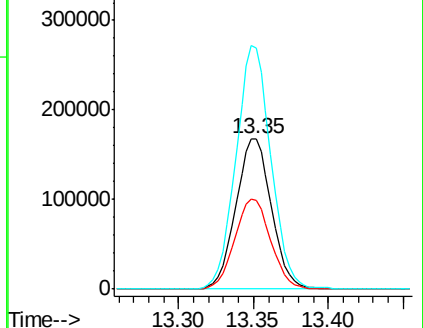
150 159.3 0.0 346.4

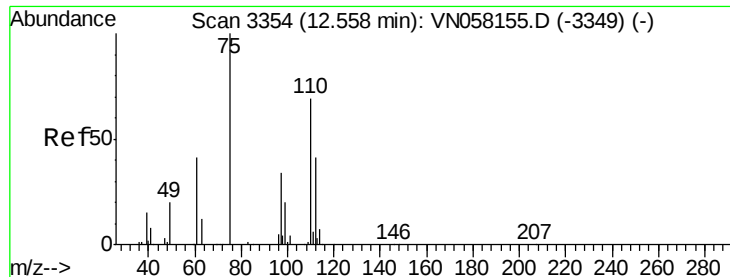


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 35.349 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058259.D

Acq: 20 Sep 2019 18:33

Instrument :

MSVOA_N

ClientSampleId :

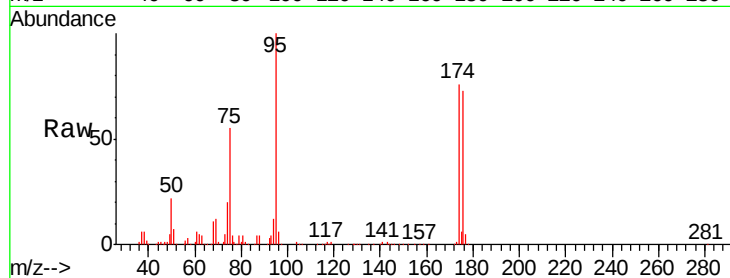
RE134D3-20190916DL

Tgt Ion: 75 Resp: 175527

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

100000

80000

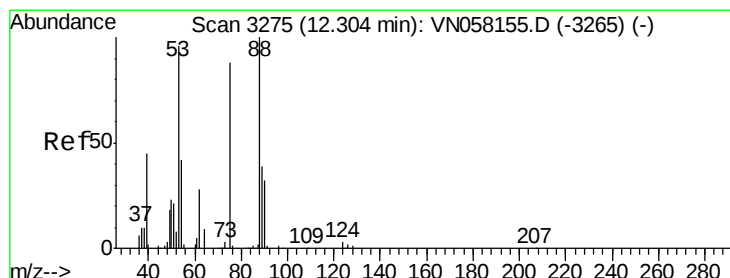
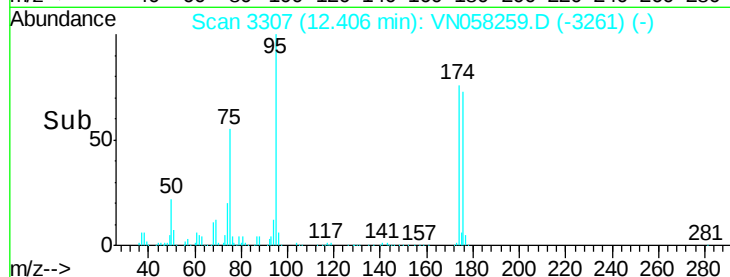
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 98.825 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058259.D

Acq: 20 Sep 2019 18:33

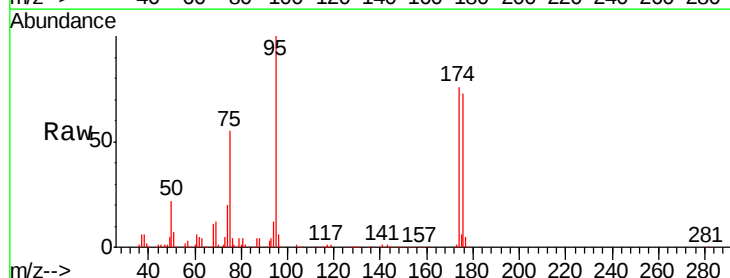
Tgt Ion: 75 Resp: 175527

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-->

