

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN092019\
 Data File : VN058249.D
 Acq On : 20 Sep 2019 14:53
 Operator : JC/SP
 Sample : K4974-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE132D2-20190916

Quant Time: Sep 20 23:49:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	499758	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	814549	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	686866	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	278236	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	360040	51.73	ug/l	0.00
Spiked Amount			Recovery	=	103.46%	
35) Dibromofluoromethane	7.57	113	245718	49.62	ug/l	0.00
Spiked Amount			Recovery	=	99.24%	
50) Toluene-d8	10.09	98	1018992	52.82	ug/l	0.00
Spiked Amount			Recovery	=	105.64%	
62) 4-Bromofluorobenzene	12.40	95	321036	44.80	ug/l	0.00
Spiked Amount			Recovery	=	89.60%	

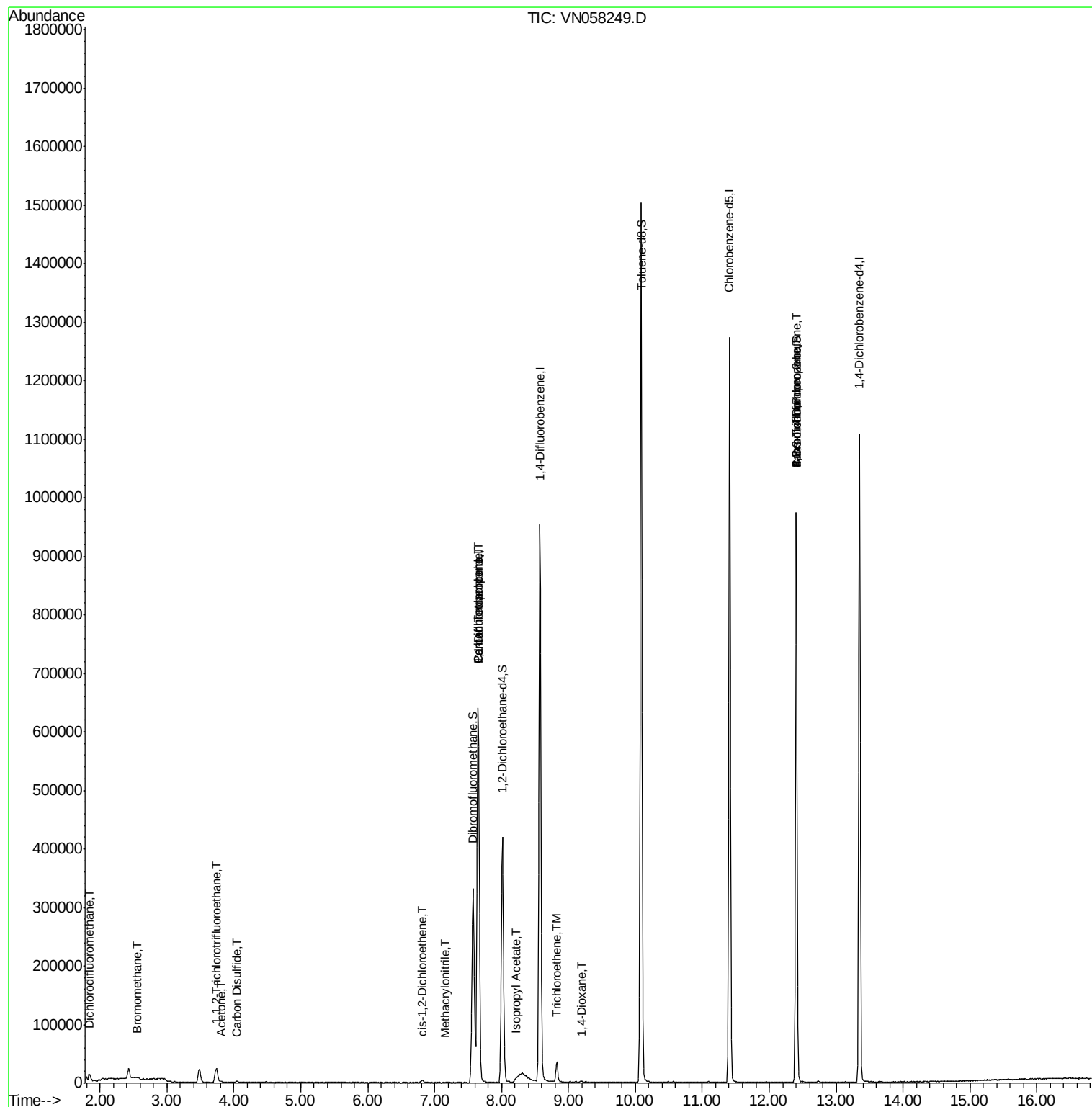
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.83	85	8251	2.010	ug/l	91
3) Chloromethane	2.04	50	942	Below Cal		95
5) Bromomethane	2.55	94	137	0.796	ug/l	99
6) Chloroethane	2.66	64	60	Below Cal	#	44
9) 1,1,2-Trichlorotrifluoroet	3.74	101	14766	3.655	ug/l	97
16) Acetone	3.81	43	3910	1.655	ug/l	98
17) Carbon Disulfide	4.03	76	726	0.438	ug/l #	74
27) cis-1,2-Dichloroethene	6.82	96	1265	0.250	ug/l #	1
31) Cyclohexane	7.65	56	12044	Below Cal	#	8
36) 1,1-Dichloropropene	7.65	75	42647	7.260	ug/l #	50
38) Carbon Tetrachloride	7.65	117	50685	8.584	ug/l #	15
41) Methacrylonitrile	7.15	41	61	0.930	ug/l #	100
43) Isopropyl Acetate	8.21	43	4972	0.437	ug/l #	57
44) Trichloroethene	8.83	130	11413	2.599	ug/l	99
49) 1,4-Dioxane	9.20	88	1563	18.416	ug/l #	82
71) Bromoform	12.40	173	1638	4.063	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	177626	35.671	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	177626	99.674	ug/l #	5

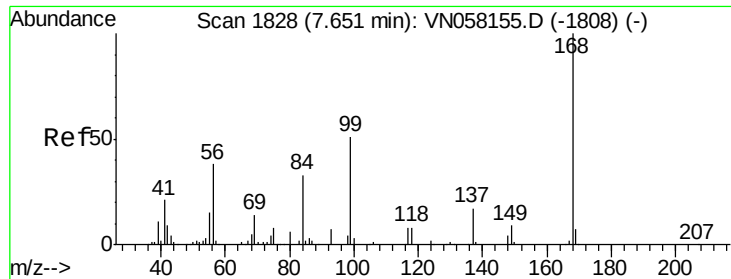
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN058249.D

Acq: 20 Sep 2019 14:53

Instrument :

MSVOA_N

ClientSampleId :

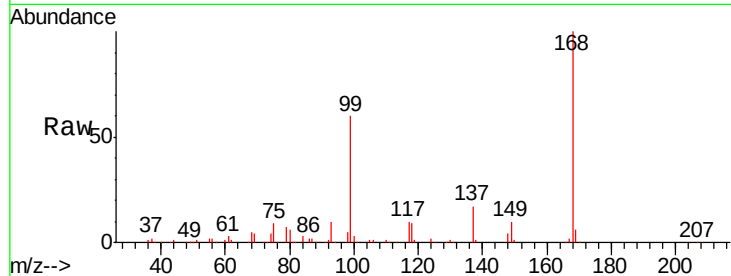
RE132D2-20190916

Tgt Ion:168 Resp: 499758

Ion Ratio Lower Upper

168 100

99 60.2 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

200000

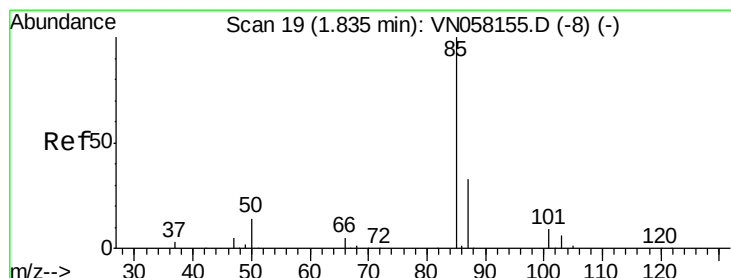
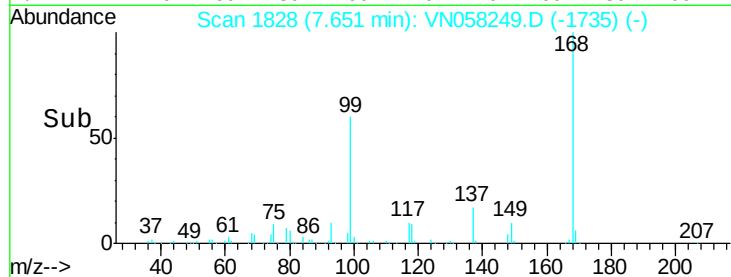
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 2.010 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN058249.D

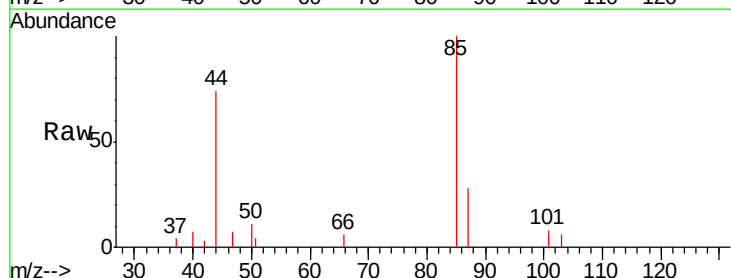
Acq: 20 Sep 2019 14:53

Tgt Ion: 85 Resp: 8251

Ion Ratio Lower Upper

85 100

87 27.6 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.83

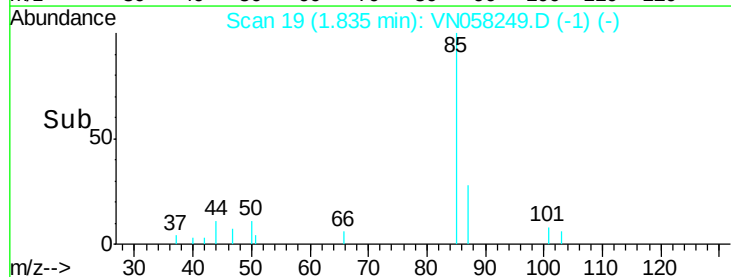
6000

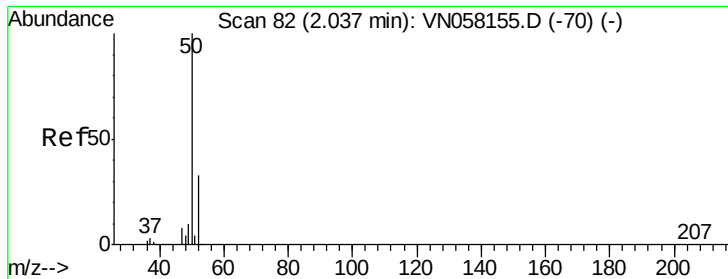
4000

2000

0

Time-->





#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN058249.D

Acq: 20 Sep 2019 14:53

Instrument :

MSVOA_N

ClientSampleId :

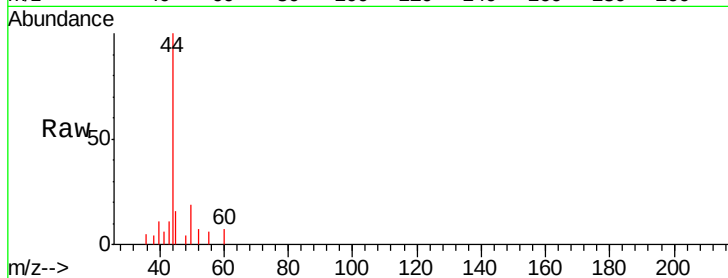
RE132D2-20190916

Tgt Ion: 50 Resp: 942

Ion Ratio Lower Upper

50 100

52 35.7 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.04

800

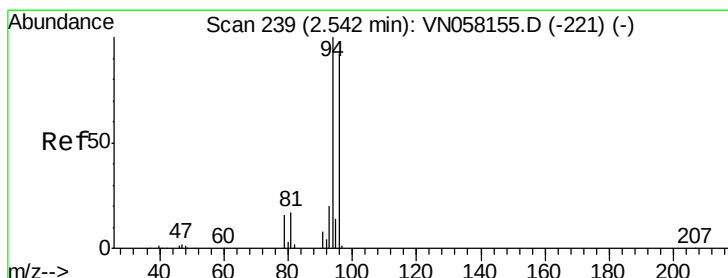
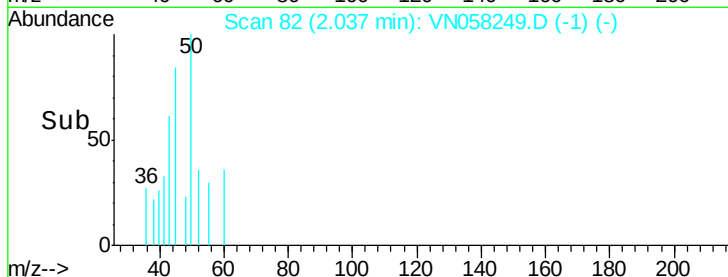
600

400

200

0

Time--> 2.00 2.02 2.04 2.06



#5

Bromomethane

Concen: 0.796 ug/l

RT: 2.55 min Scan# 242

Delta R.T. 0.01 min

Lab File: VN058249.D

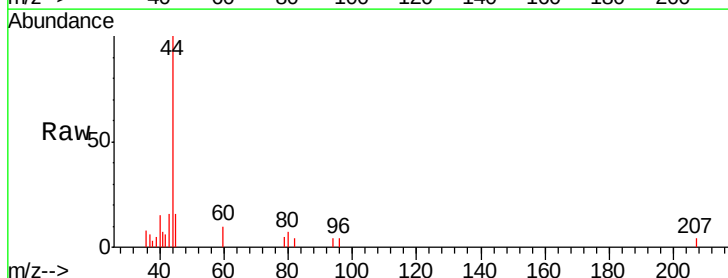
Acq: 20 Sep 2019 14:53

Tgt Ion: 94 Resp: 137

Ion Ratio Lower Upper

94 100

96 90.3 73.3 109.9



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.55

200

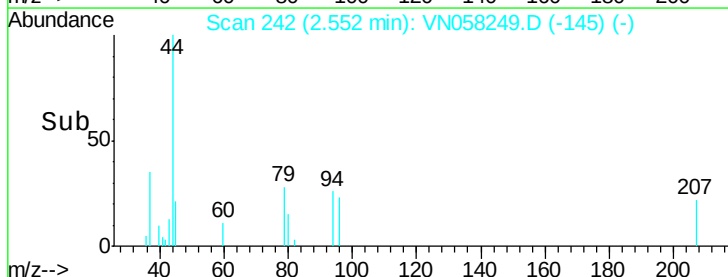
150

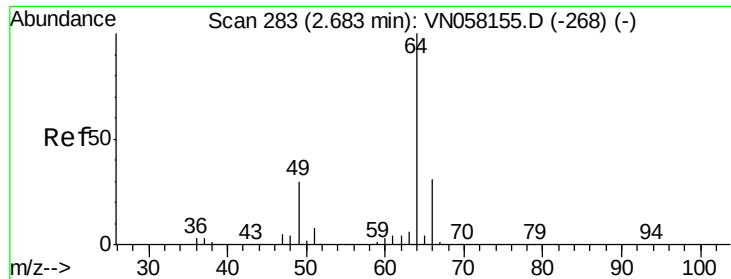
100

50

0

Time--> 2.54 2.55 2.56 2.57





#6

Chloroethane

Concen: Below Cal

RT: 2.66 min Scan# 275

Delta R.T. -0.03 min

Lab File: VN058249.D

Acq: 20 Sep 2019 14:53

Instrument :

MSVOA_N

ClientSampleId :

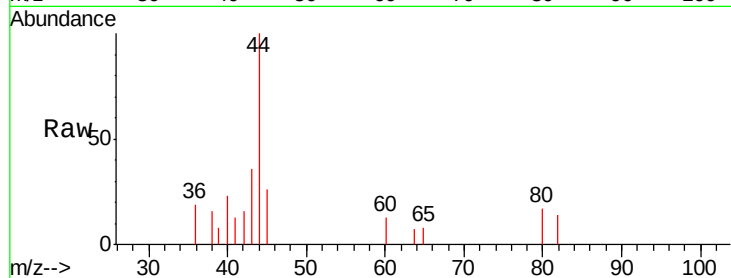
RE132D2-20190916

Tgt Ion: 64 Resp: 60

Ion Ratio Lower Upper

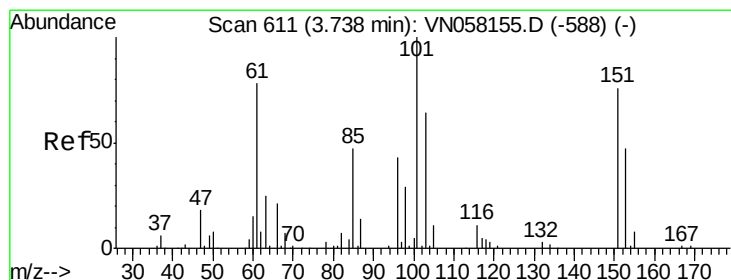
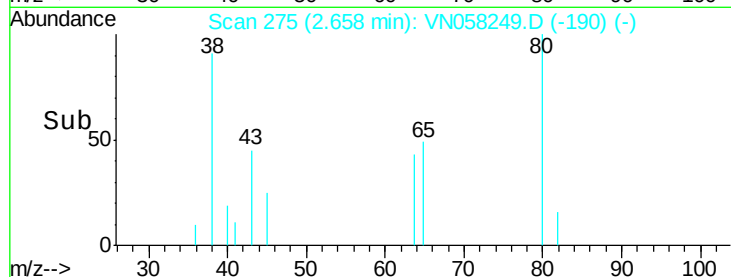
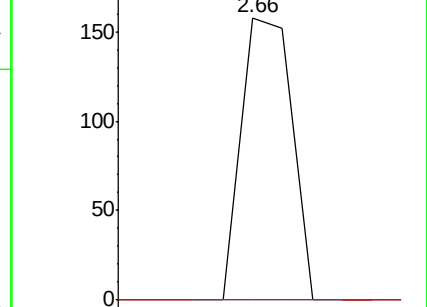
64 100

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: 3.655 ug/l

RT: 3.74 min Scan# 612

Delta R.T. 0.00 min

Lab File: VN058249.D

Acq: 20 Sep 2019 14:53

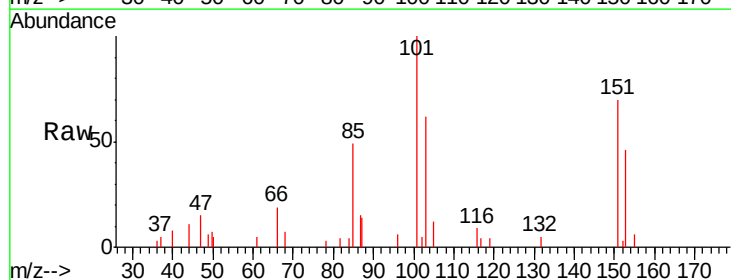
Tgt Ion: 101 Resp: 14766

Ion Ratio Lower Upper

101 100

85 46.9 37.3 55.9

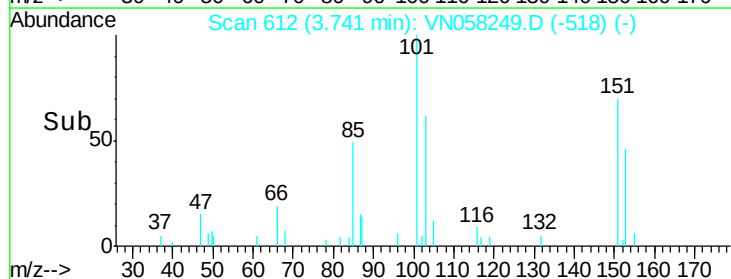
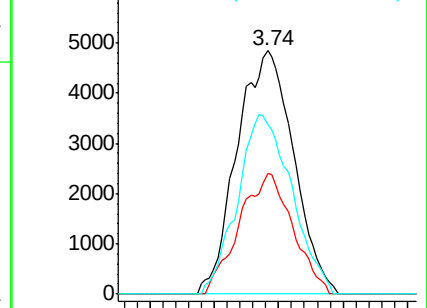
151 70.9 59.6 89.4

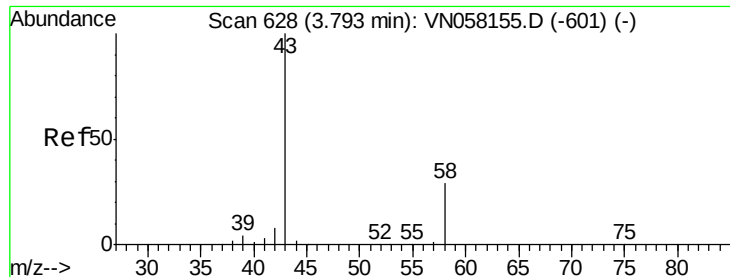


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN0

Ion 150.80 (150.50 to 151.50): V





#16

Acetone

Concen: 1.655 ug/l

RT: 3.81 min Scan# 632

Delta R.T. 0.01 min

Lab File: VN058249.D

Acq: 20 Sep 2019 14:53

Instrument :

MSVOA_N

ClientSampleId :

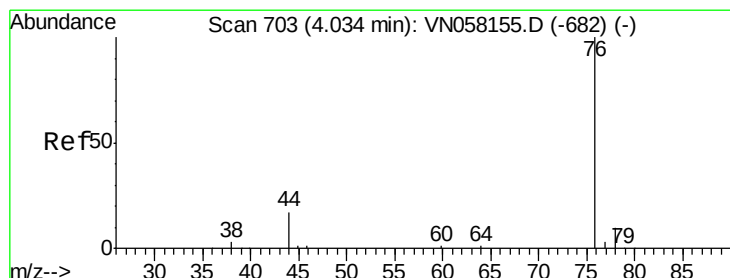
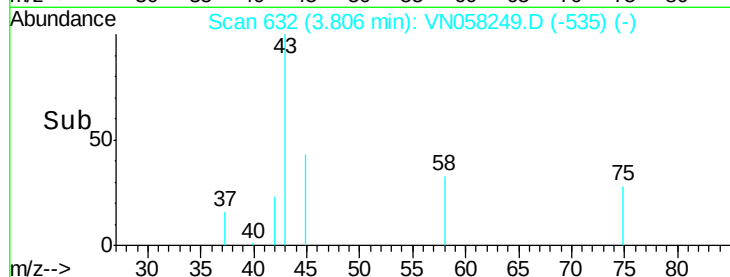
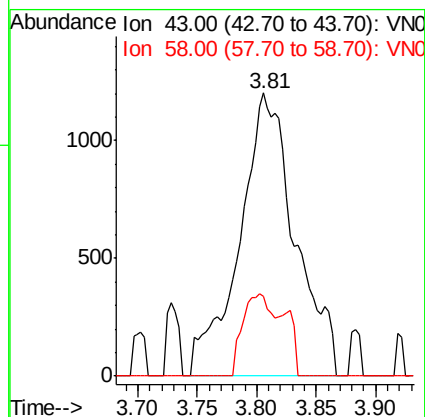
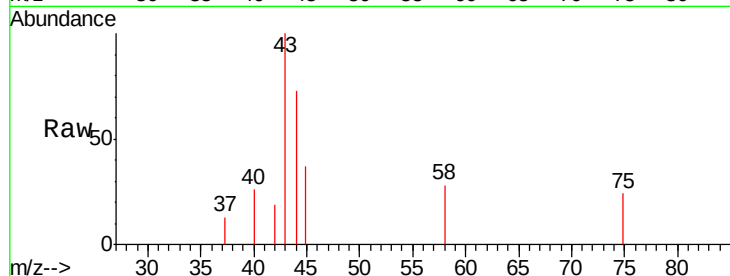
RE132D2-20190916

Tgt Ion: 43 Resp: 3910

Ion Ratio Lower Upper

43 100

58 28.2 23.4 35.2



#17

Carbon Disulfide

Concen: 0.438 ug/l

RT: 4.03 min Scan# 703

Delta R.T. 0.00 min

Lab File: VN058249.D

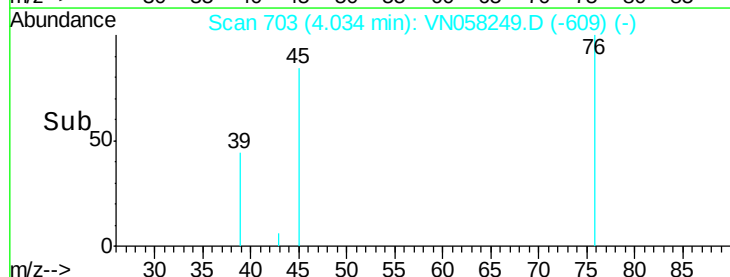
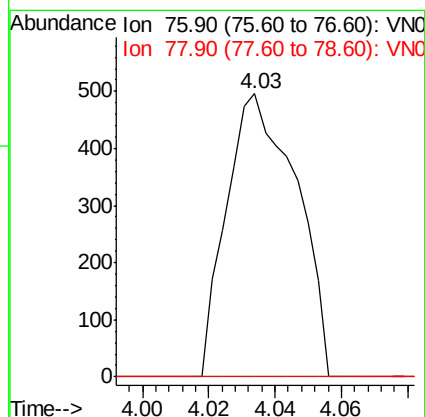
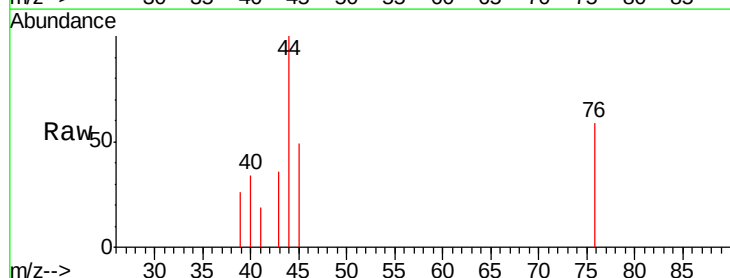
Acq: 20 Sep 2019 14:53

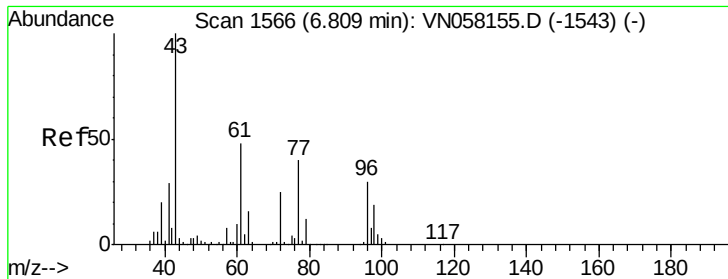
Tgt Ion: 76 Resp: 726

Ion Ratio Lower Upper

76 100

78 0.0 7.7 11.5#





#27

cis-1,2-Dichloroethene

Concen: 0.250 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. 0.01 min

Lab File: VN058249.D

Acq: 20 Sep 2019 14:53

Instrument :

MSVOA_N

ClientSampleId :

RE132D2-20190916

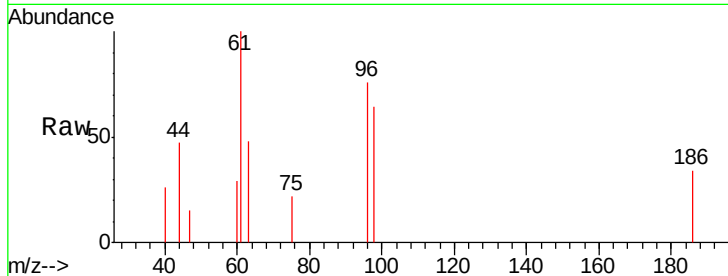
Tgt Ion: 96 Resp: 1265

Ion Ratio Lower Upper

96 100

61 0.0 0.0 319.0

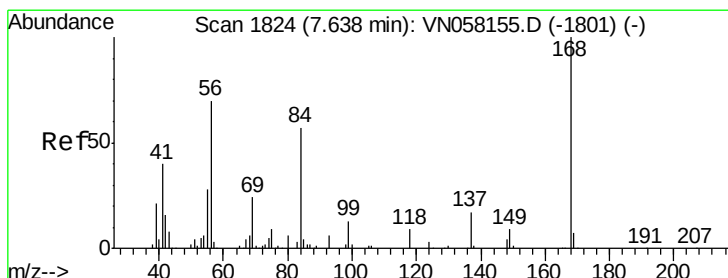
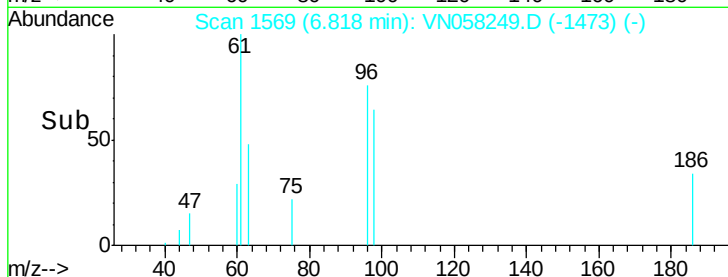
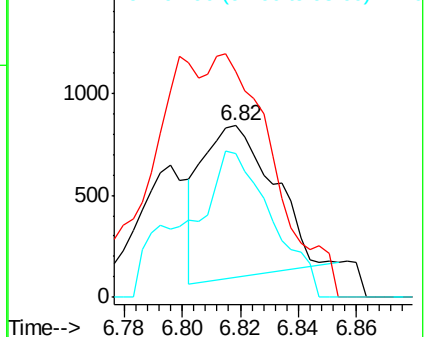
98 116.8 0.0 126.6



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# 1827

Delta R.T. 0.01 min

Lab File: VN058249.D

Acq: 20 Sep 2019 14:53

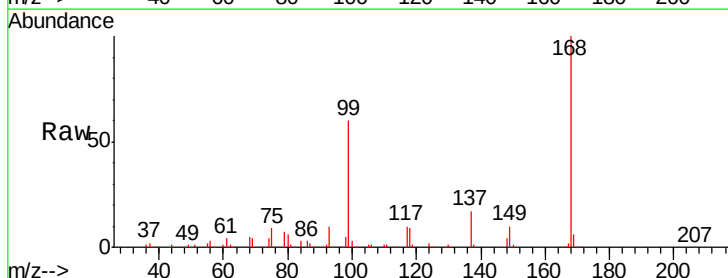
Tgt Ion: 56 Resp: 12044

Ion Ratio Lower Upper

56 100

69 163.3 27.3 40.9#

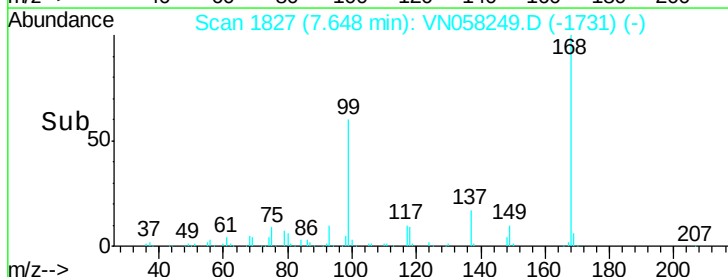
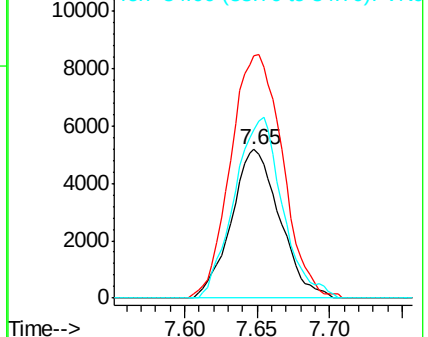
84 113.2 65.0 97.4#

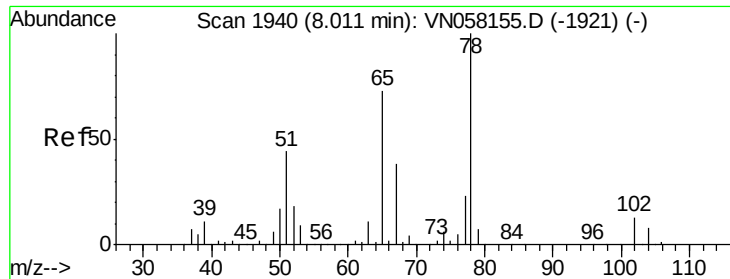


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

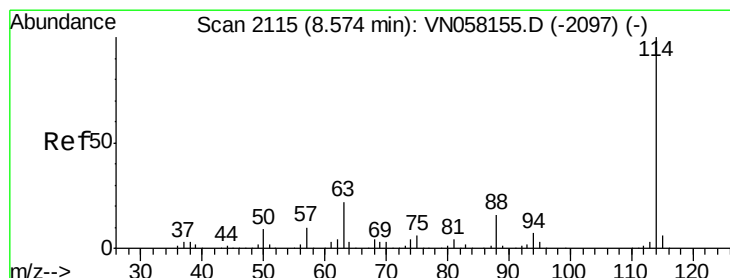
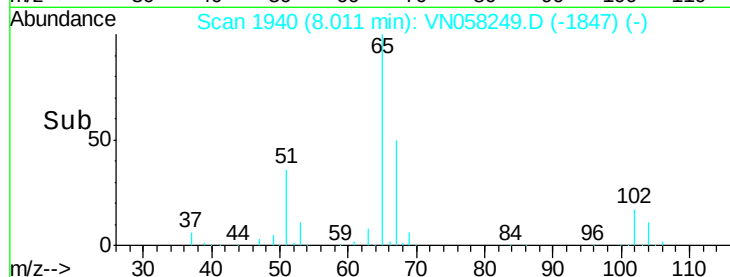
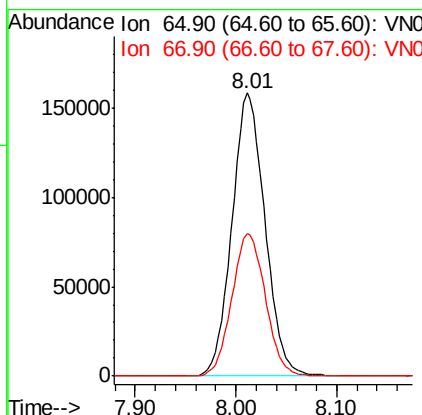
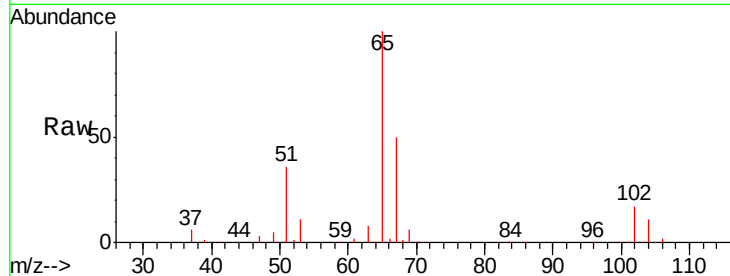




#33
 1,2-Dichloroethane-d4
 Concen: 51.725 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058249.D
 Acq: 20 Sep 2019 14:53

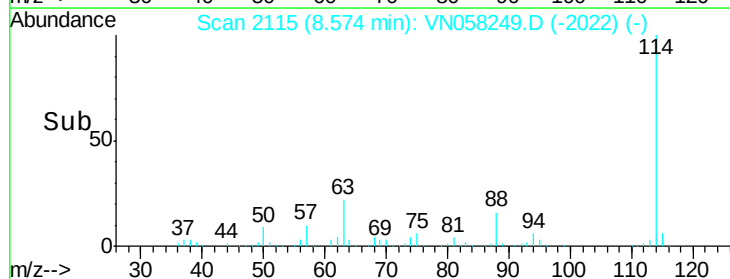
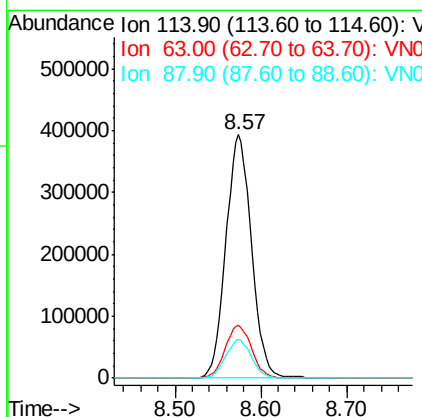
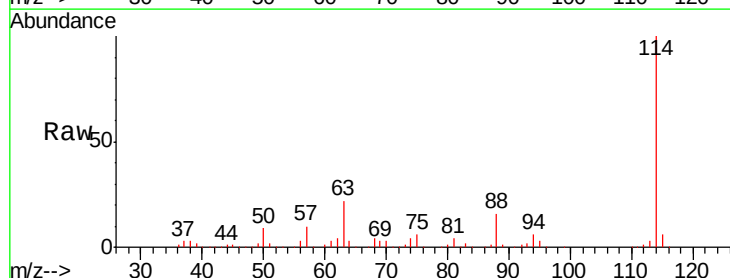
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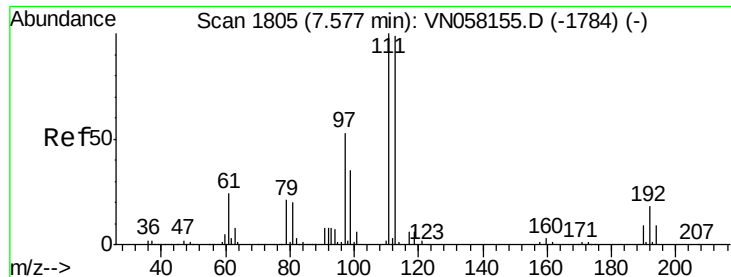
Tgt Ion: 65 Resp: 360040
 Ion Ratio Lower Upper
 65 100
 67 51.2 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058249.D
 Acq: 20 Sep 2019 14:53

Tgt Ion: 114 Resp: 814549
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 44.2
 88 15.9 0.0 31.6

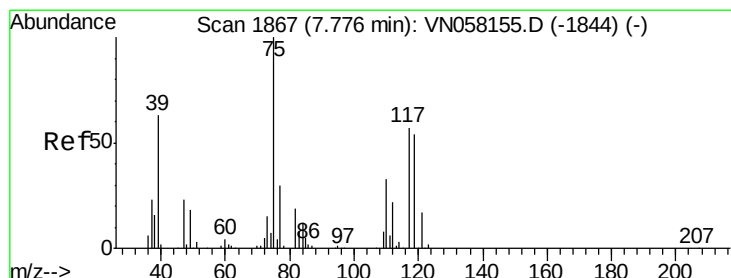
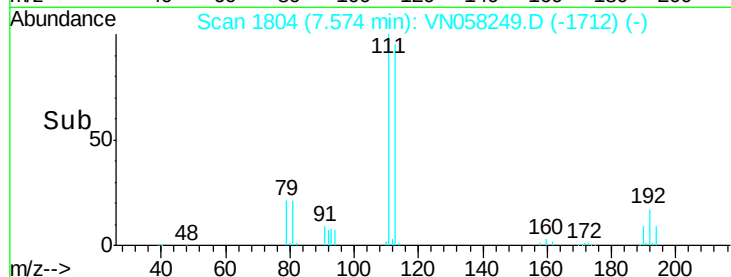
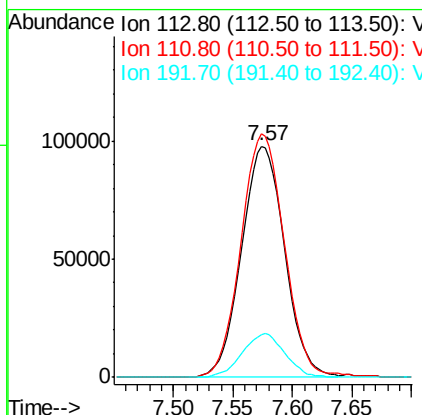
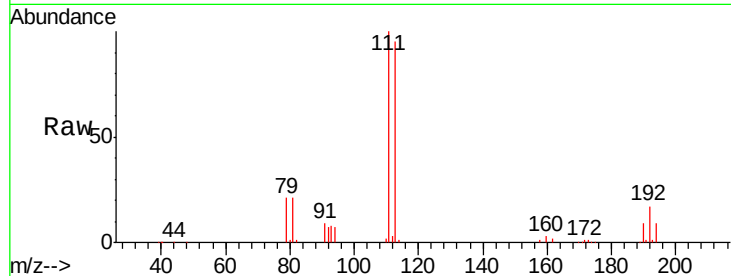




#35
 Dibromofluoromethane
 Concen: 49.622 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VN058249.D
 Acq: 20 Sep 2019 14:53

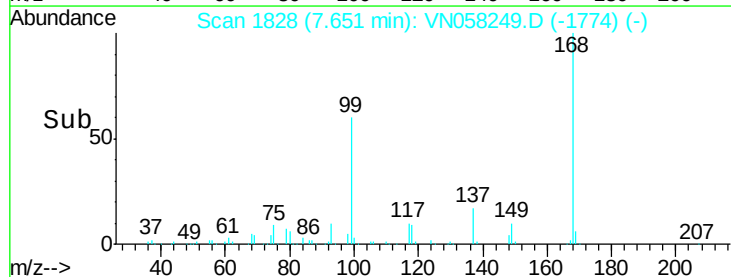
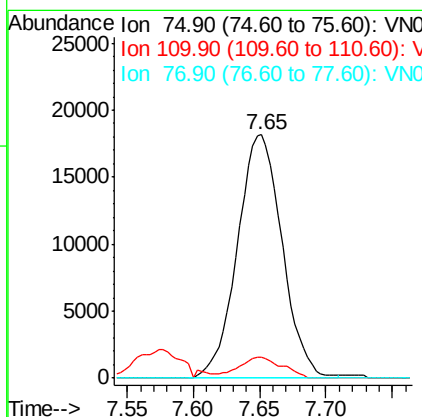
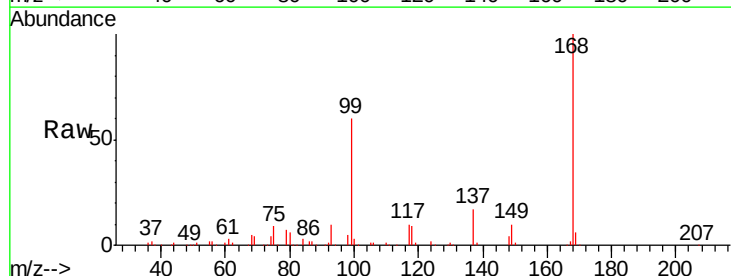
Instrument :
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 RE132D2-20190916

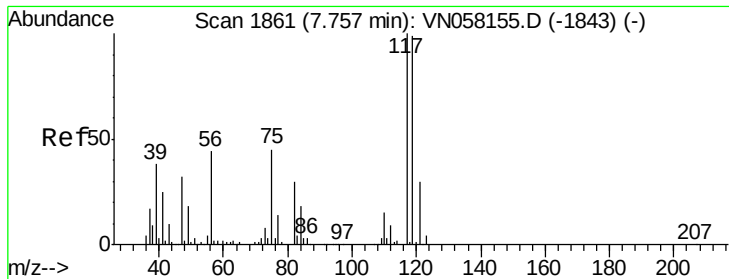
Tgt Ion	Ratio	Lower	Upper
113	100		
111	106.5	81.8	122.6
192	18.7	14.5	21.7



#36
 1,1-Dichloropropene
 Concen: 7.260 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058249.D
 Acq: 20 Sep 2019 14:53

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.3	16.6	49.7#
77	0.0	24.3	36.5#





#38

Carbon Tetrachloride

Concen: 8.584 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.11 min

Lab File: VN058249.D

Acq: 20 Sep 2019 14:53

Instrument :

MSVOA_N

ClientSampleId :

RE132D2-20190916

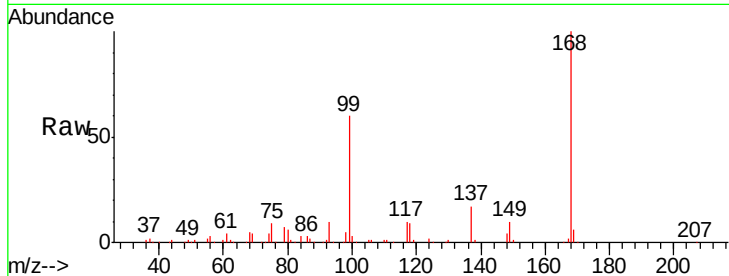
Tgt Ion: 117 Resp: 50685

Ion Ratio Lower Upper

117 100

119 5.3 78.6 117.8#

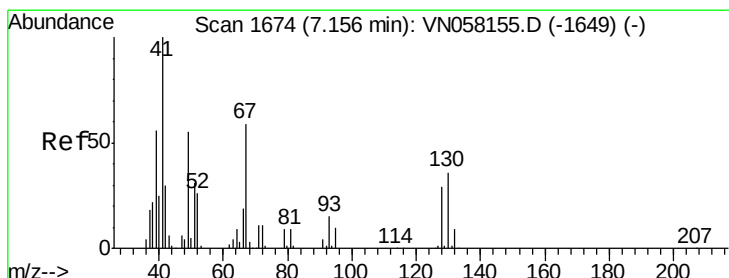
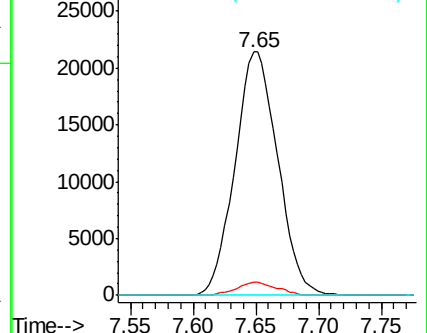
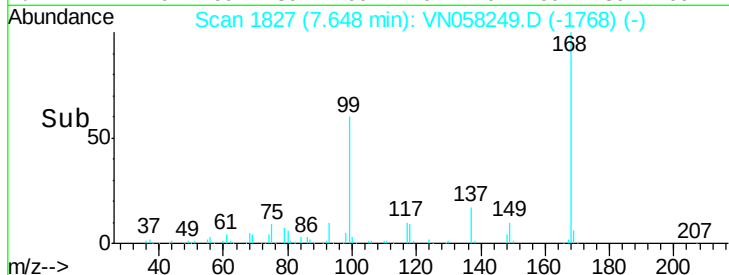
121 0.0 24.1 36.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 0.930 ug/l

RT: 7.15 min Scan# 1671

Delta R.T. -0.01 min

Lab File: VN058249.D

Acq: 20 Sep 2019 14:53

Tgt Ion: 41 Resp: 61

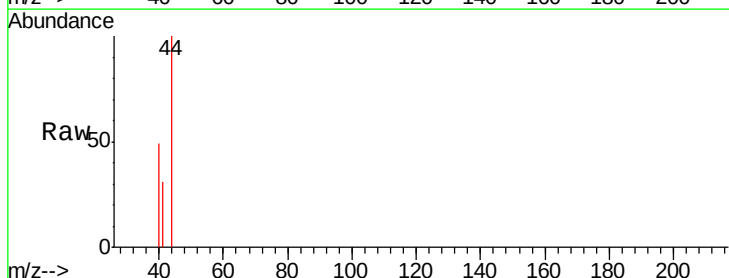
Ion Ratio Lower Upper

41 100

39 0.0 0.0 0.0

67 0.0 0.0 0.0

52 0.0 0.0 0.0

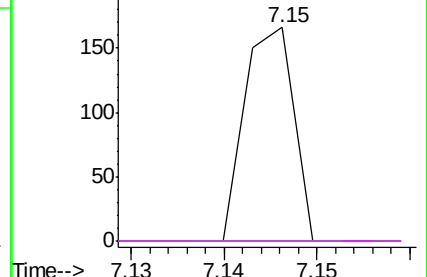
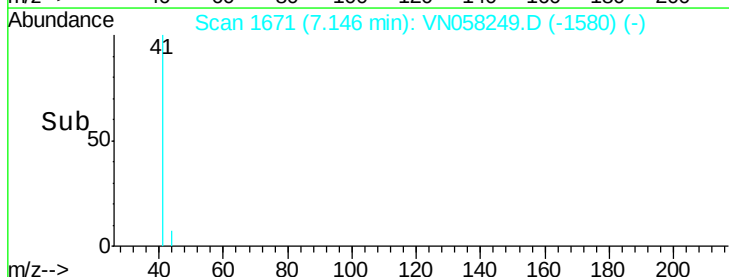


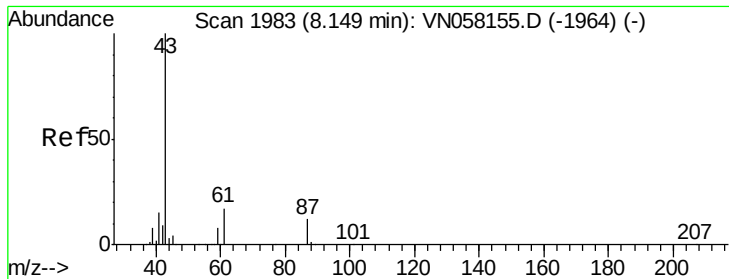
Abundance Ion 41.00 (40.70 to 41.70): VNO

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: 0.437 ug/l

RT: 8.21 min Scan# 2002

Delta R.T. 0.06 min

Lab File: VN058249.D

Acq: 20 Sep 2019 14:53

Instrument :

MSVOA_N

ClientSampleId :

RE132D2-20190916

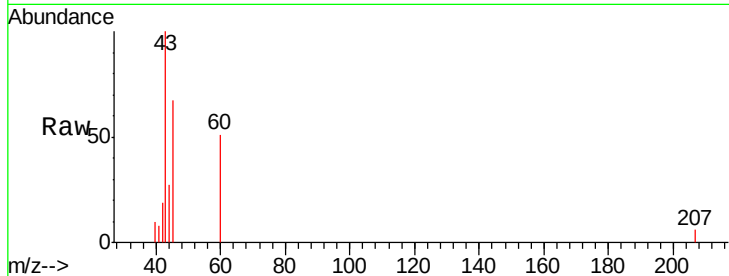
Tgt Ion: 43 Resp: 4972

Ion Ratio Lower Upper

43 100

61 0.0 19.7 29.5#

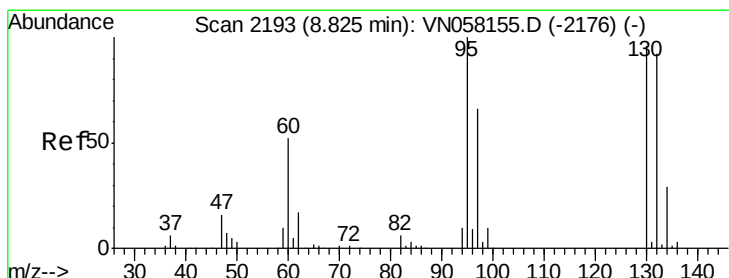
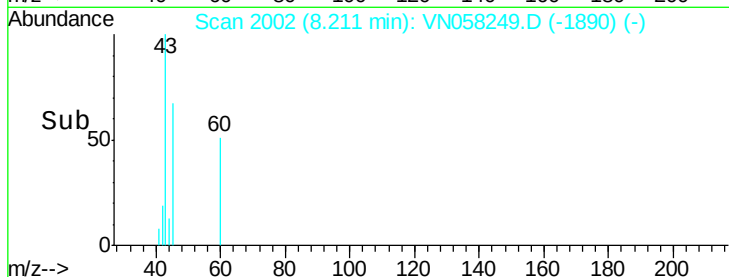
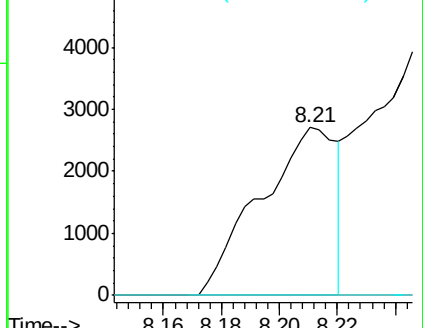
87 0.0 9.4 14.2#



Abundance Ion 43.00 (42.70 to 43.70): VN058155.D (-1964) (-)

Ion 61.00 (60.70 to 61.70): VN058155.D (-1964) (-)

Ion 87.00 (86.70 to 87.70): VN058155.D (-1964) (-)



#44

Trichloroethene

Concen: 2.599 ug/l

RT: 8.83 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VN058249.D

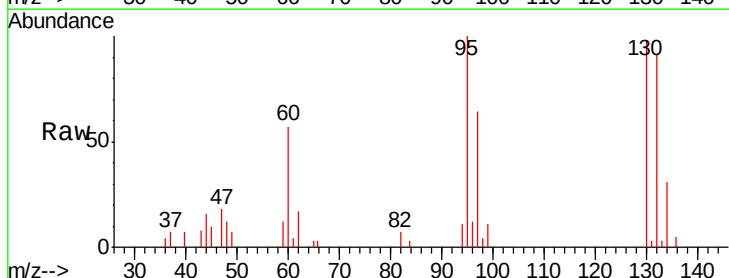
Acq: 20 Sep 2019 14:53

Tgt Ion: 130 Resp: 11413

Ion Ratio Lower Upper

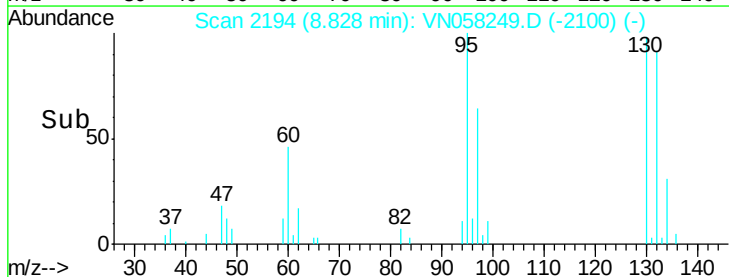
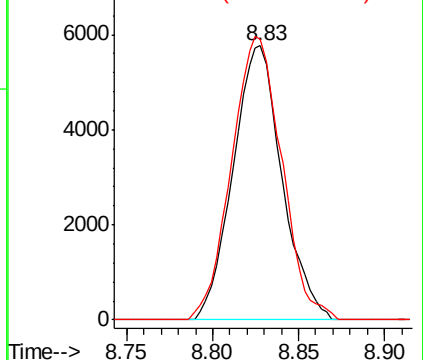
130 100

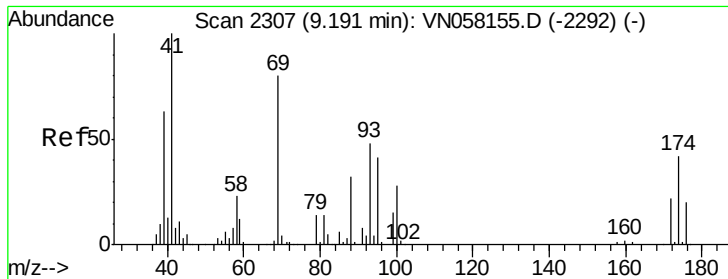
95 102.4 0.0 207.8



Abundance Ion 129.80 (129.50 to 130.50): VN058155.D (-2176) (-)

Ion 94.90 (94.60 to 95.60): VN058155.D (-2176) (-)

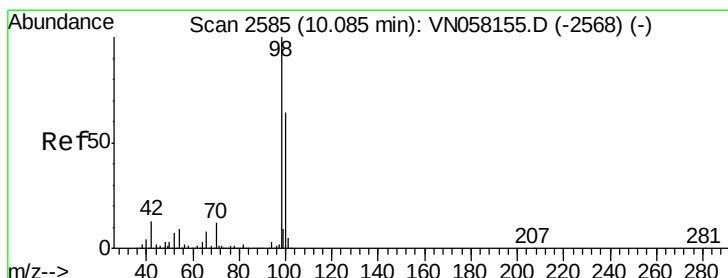
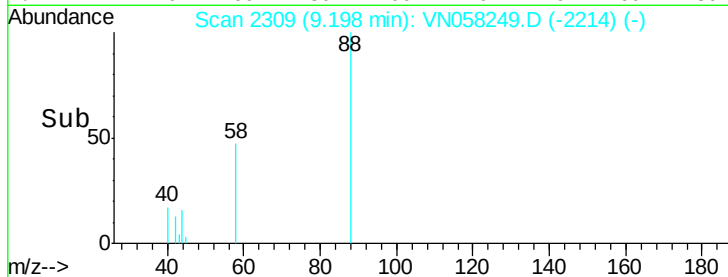
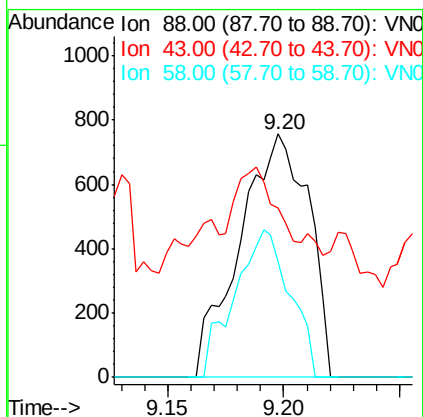
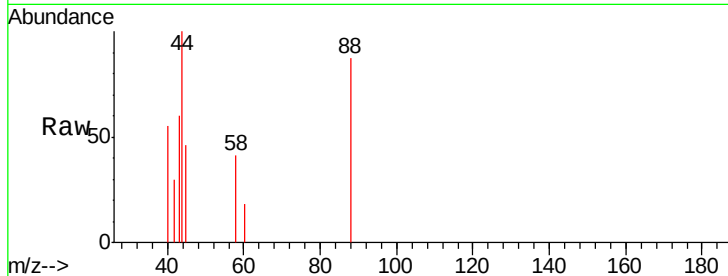




#49
 1,4-Dioxane
 Concen: 18.416 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. 0.01 min
 Lab File: VN058249.D
 Acq: 20 Sep 2019 14:53

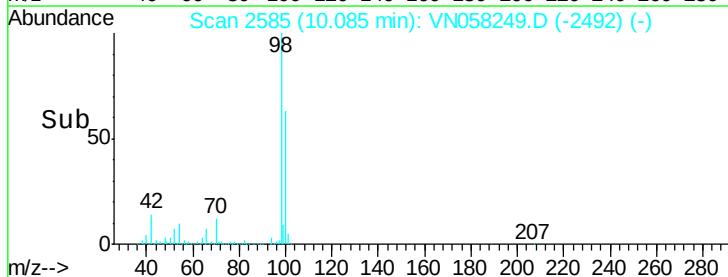
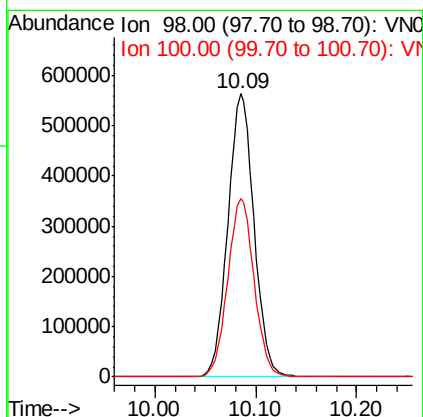
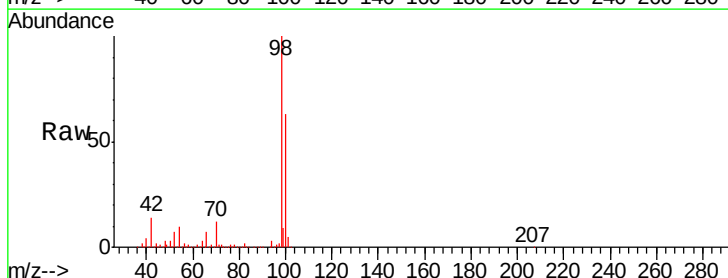
Instrument :
 MSVOA_N
 ClientSampleId :
 RE132D2-20190916

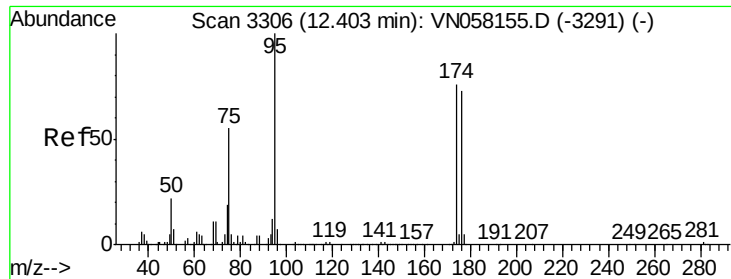
Tgt Ion: 88 Resp: 1563
 Ion Ratio Lower Upper
 88 100
 43 31.6 27.8 41.8
 58 48.8 55.0 82.4#



#50
 Toluene-d8
 Concen: 52.816 ug/l
 RT: 10.09 min Scan# 2585
 Delta R.T. 0.00 min
 Lab File: VN058249.D
 Acq: 20 Sep 2019 14:53

Tgt Ion: 98 Resp: 1018992
 Ion Ratio Lower Upper
 98 100
 100 63.7 51.1 76.7





#62

4-Bromofluorobenzene

Concen: 44.796 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058249.D

Acq: 20 Sep 2019 14:53

Instrument :

MSVOA_N

ClientSampleId :

RE132D2-20190916

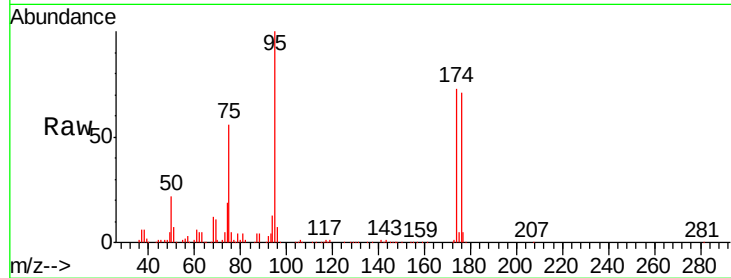
Tgt Ion: 95 Resp: 321036

Ion Ratio Lower Upper

95 100

174 75.1 0.0 152.2

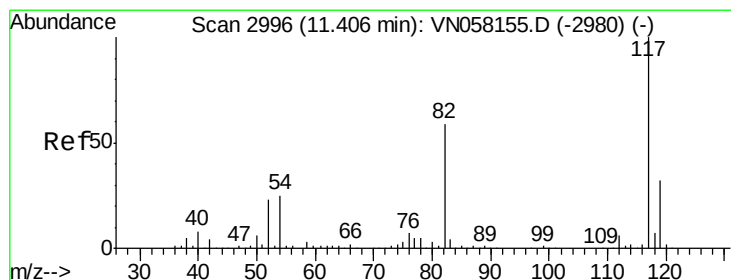
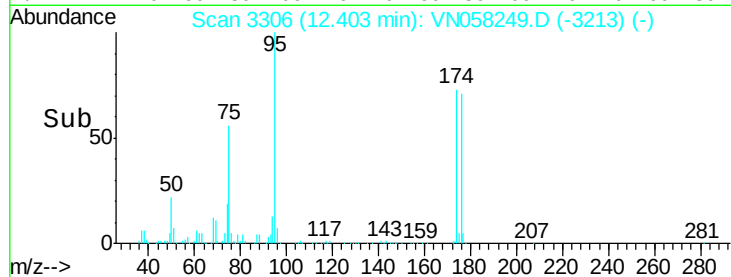
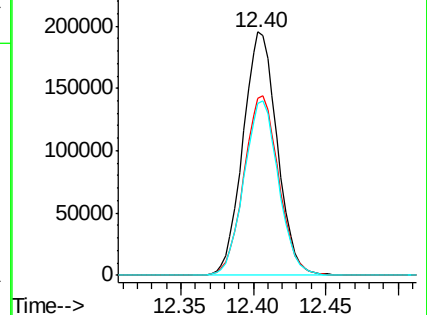
176 72.3 0.0 148.0



Abundance Ion 94.90 (94.60 to 95.60): VN058249.D (-3213) (-)

Ion 173.80 (173.50 to 174.50): VN058249.D (-3213) (-)

Ion 175.80 (175.50 to 176.50): VN058249.D (-3213) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058249.D

Acq: 20 Sep 2019 14:53

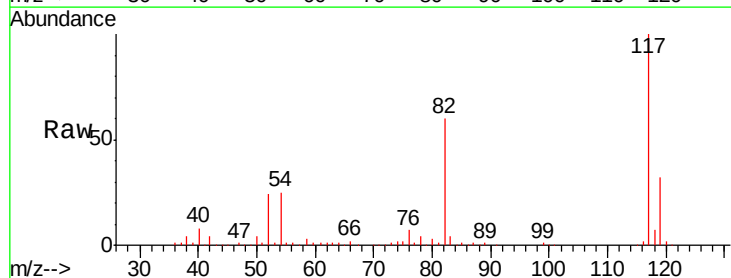
Tgt Ion: 117 Resp: 686866

Ion Ratio Lower Upper

117 100

82 59.9 46.9 70.3

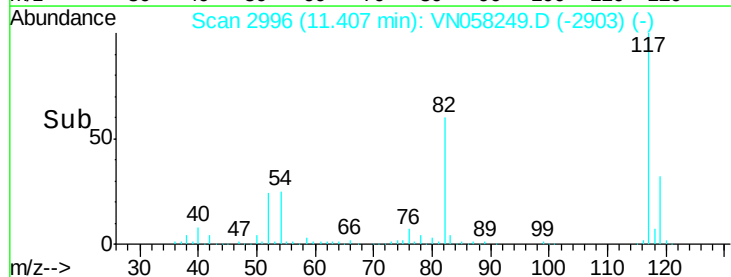
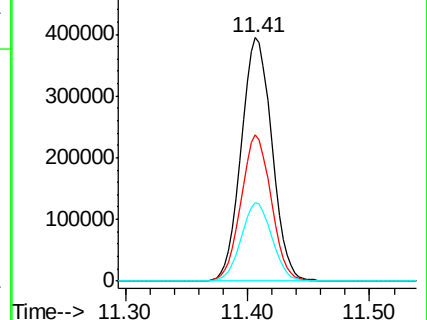
119 32.2 25.3 37.9

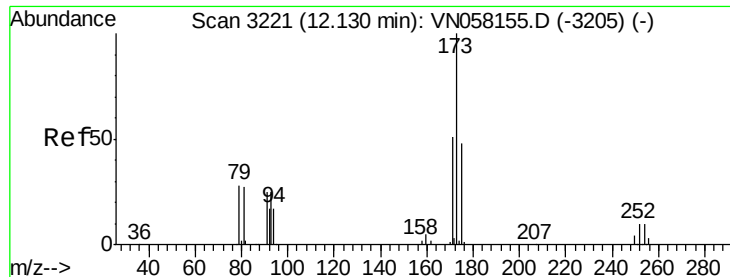


Abundance Ion 116.90 (116.60 to 117.60): VN058249.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN058249.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN058249.D (-2903) (-)





#71

Bromoform

Concen: 4.063 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.27 min

Lab File: VN058249.D

Acq: 20 Sep 2019 14:53

Instrument :

MSVOA_N

ClientSampled :

RE132D2-20190916

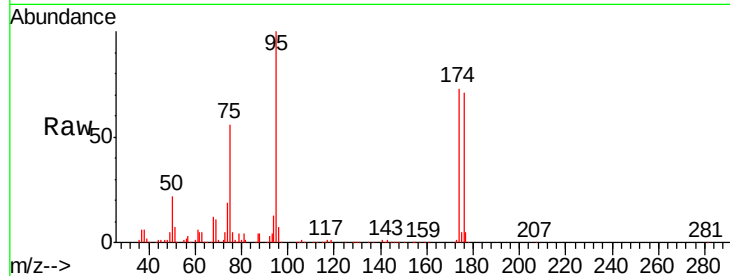
Tgt Ion:173 Resp: 1638

Ion Ratio Lower Upper

173 100

175 974.1 24.2 72.6#

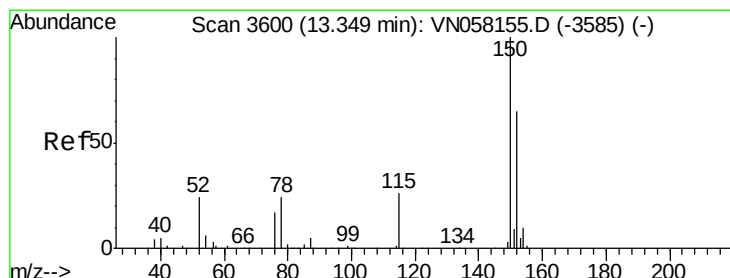
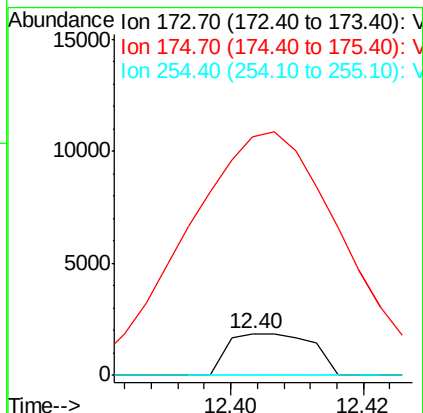
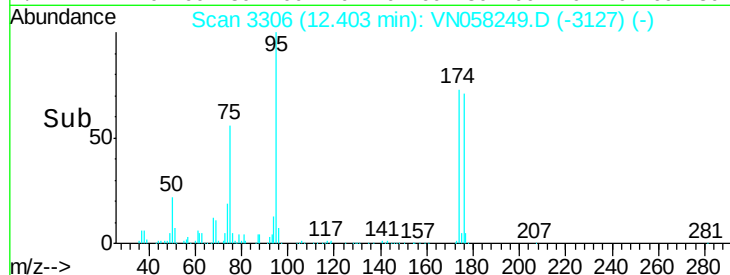
254 0.0 0.1 0.1#



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: VN058249.D

Acq: 20 Sep 2019 14:53

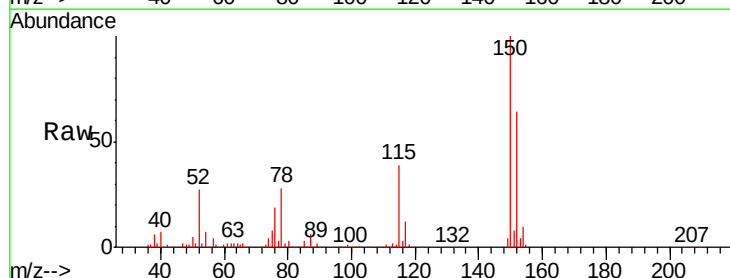
Tgt Ion:152 Resp: 278236

Ion Ratio Lower Upper

152 100

115 61.5 30.1 90.3

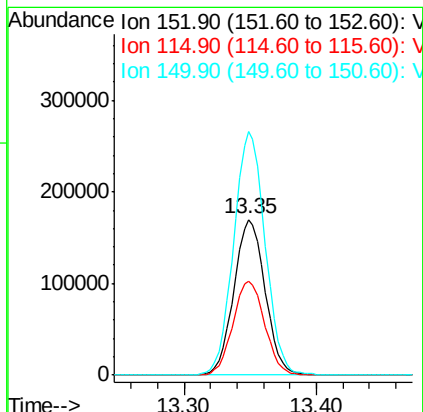
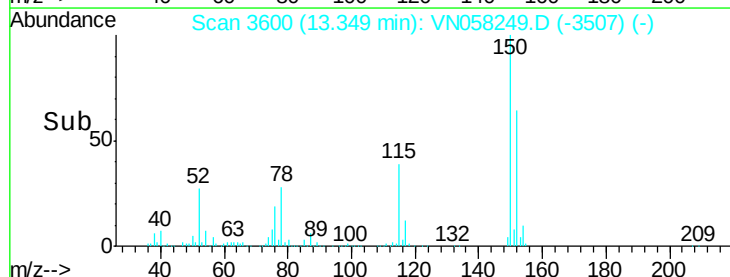
150 157.6 0.0 346.4

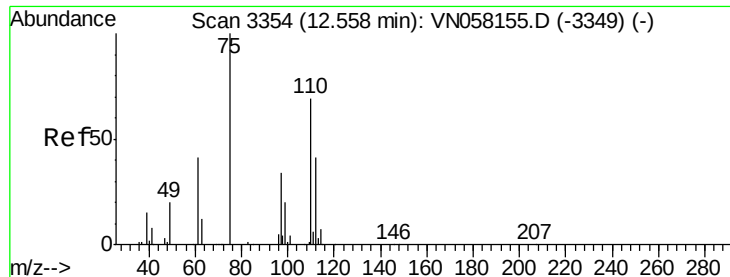


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 35.671 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058249.D

Acq: 20 Sep 2019 14:53

Instrument :

MSVOA_N

ClientSampleId :

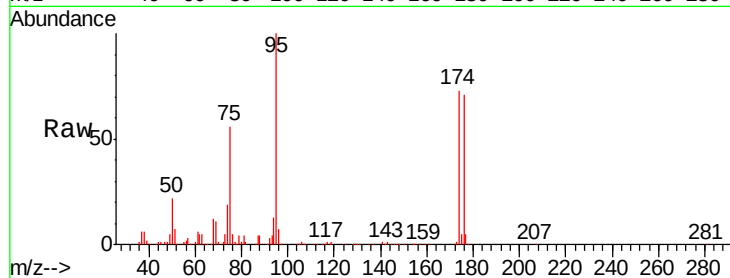
RE132D2-20190916

Tgt Ion: 75 Resp: 177626

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

120000

100000

80000

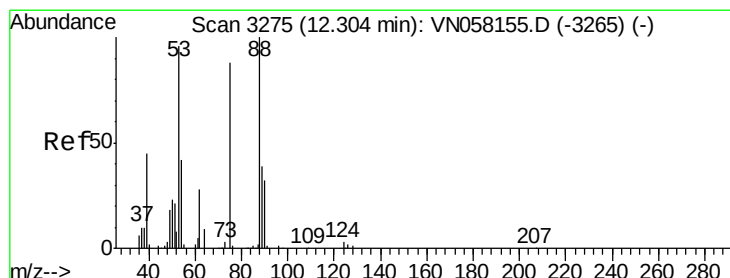
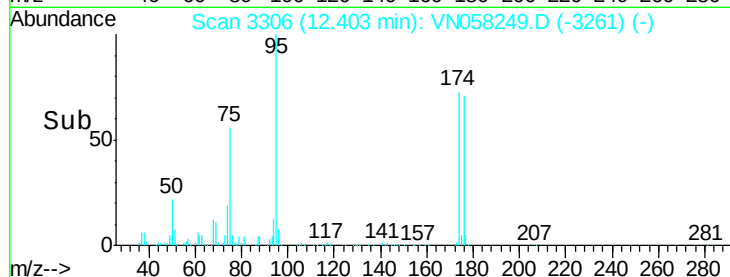
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 99.674 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058249.D

Acq: 20 Sep 2019 14:53

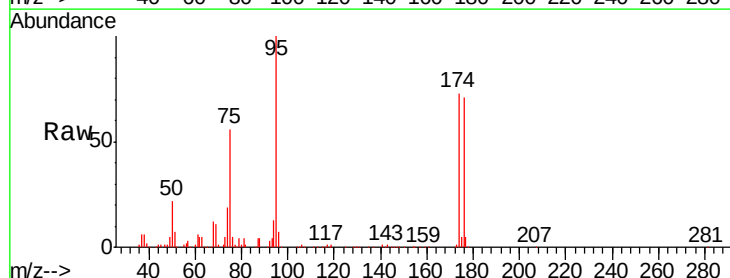
Tgt Ion: 75 Resp: 177626

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

150000

100000

50000

0

Time-->

