

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091919\
 Data File : VN058195.D
 Acq On : 19 Sep 2019 11:18
 Operator : JC/SP
 Sample : K4899-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 STORAGE-BLANK-SOIL-REF-6

Quant Time: Sep 20 01:48:50 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	542610	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	875437	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	744767	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	305436	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	361944	47.89	ug/l	0.00
Spiked Amount			Recovery	=	95.78%	
35) Dibromofluoromethane	7.57	113	250156	47.00	ug/l	0.00
Spiked Amount			Recovery	=	94.00%	
50) Toluene-d8	10.08	98	1030728	49.71	ug/l	0.00
Spiked Amount			Recovery	=	99.42%	
62) 4-Bromofluorobenzene	12.40	95	331878	43.09	ug/l	0.00
Spiked Amount			Recovery	=	86.18%	

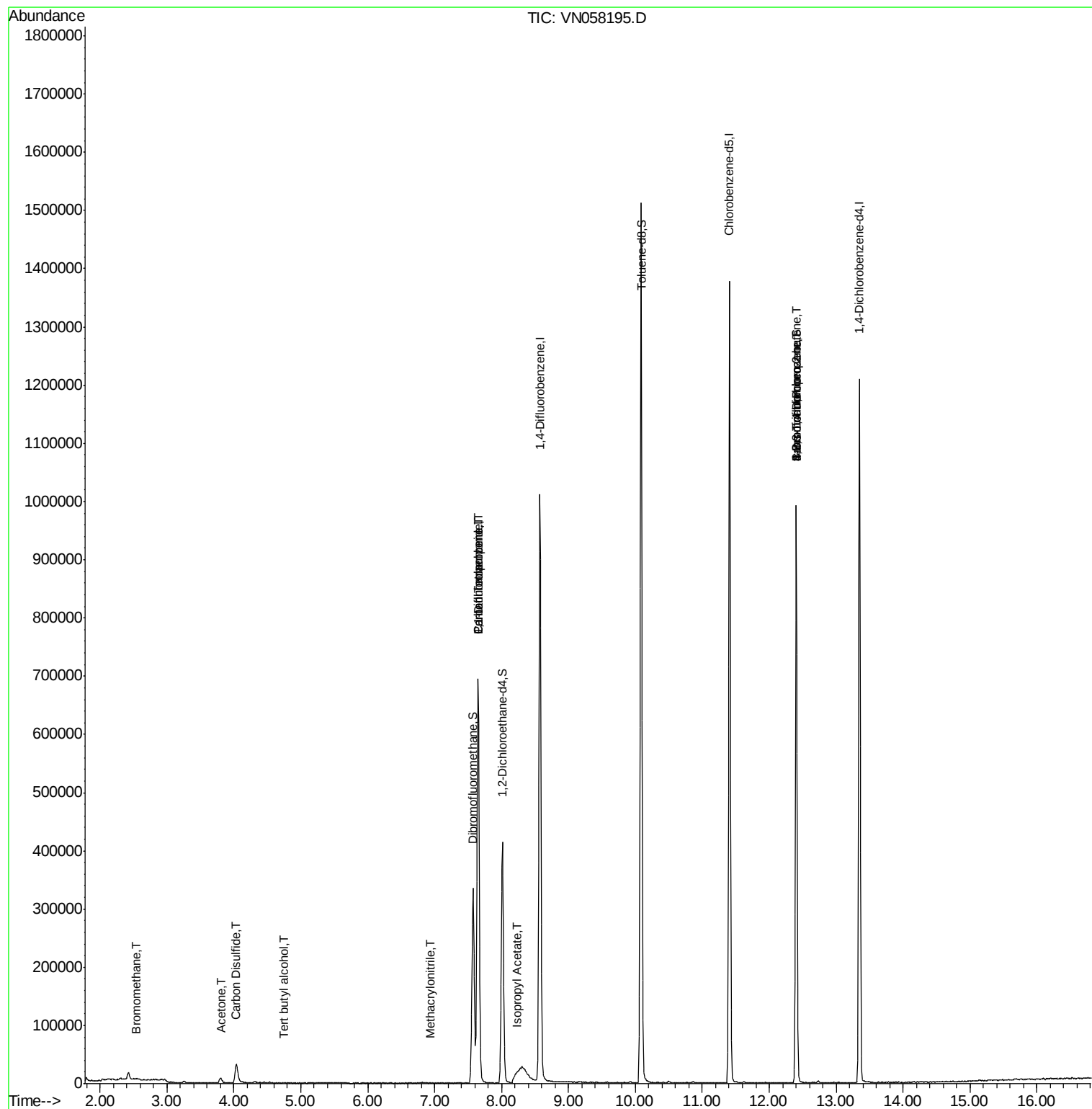
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1855	Below Cal		93
4) Vinyl Chloride	2.45	62	63	Below Cal	#	43
5) Bromomethane	2.54	94	77	0.761	ug/l #	4
6) Chloroethane	2.77	64	29	Below Cal	#	44
11) Tert butyl alcohol	4.75	59	296	0.329	ug/l #	71
16) Acetone	3.81	43	15711	6.124	ug/l	93
17) Carbon Disulfide	4.02	76	200	0.313	ug/l #	74
20) Methylene Chloride	4.53	84	684	Below Cal	#	42
21) trans-1,2-Dichloroethene	5.21	96	29	Below Cal	#	1
31) Cyclohexane	7.64	56	13250	Below Cal	#	15
36) 1,1-Dichloropropene	7.65	75	46175	7.314	ug/l #	50
38) Carbon Tetrachloride	7.65	117	54209	8.542	ug/l #	14
41) Methacrylonitrile	6.94	41	31	0.920	ug/l #	100
43) Isopropyl Acetate	8.22	43	16622	1.358	ug/l #	57
71) Bromoform	12.40	173	1311	3.941	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	183186	33.512	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	183186	93.990	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: VN058195.D

Acq: 19 Sep 2019 11:18

Instrument :

MSVOA_N

ClientSampleId :

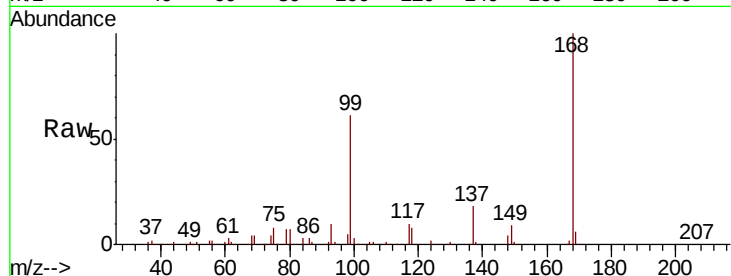
STORAGE-BLANK-SOIL-REF-6

Tot Ion:168 Resp: 542610

Ion Ratio Lower Upper

168 100

99 60.5 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

250000

200000

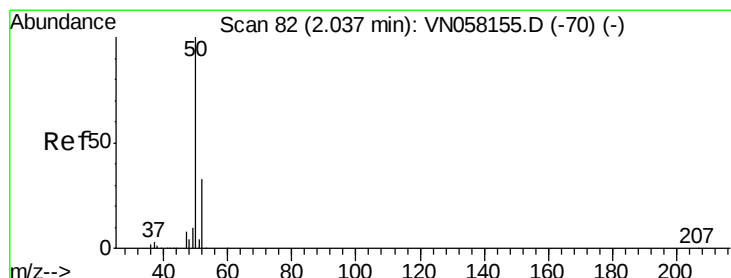
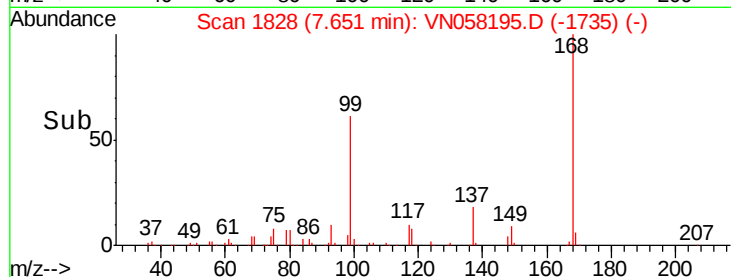
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058195.D

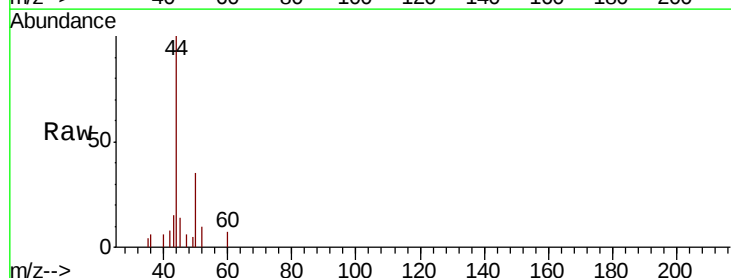
Acq: 19 Sep 2019 11:18

Tgt Ion: 50 Resp: 1855

Ion Ratio Lower Upper

50 100

52 28.9 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

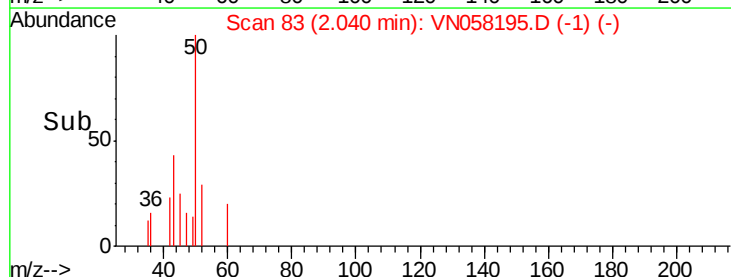
1500

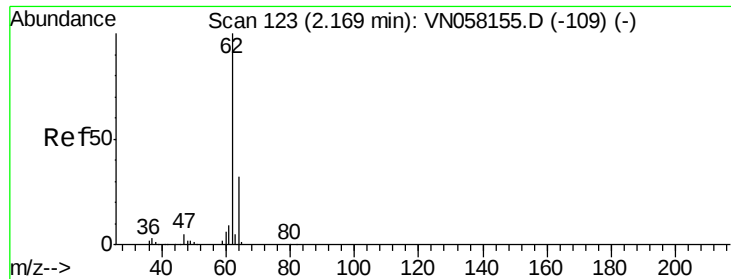
1000

500

0

Time-->





#4

Vinyl Chloride

Concen: Below Cal

RT: 2.45 min Scan# 209

Delta R.T. 0.28 min

Lab File: VN058195.D

Acq: 19 Sep 2019 11:18

Instrument :

MSVOA_N

ClientSampleId :

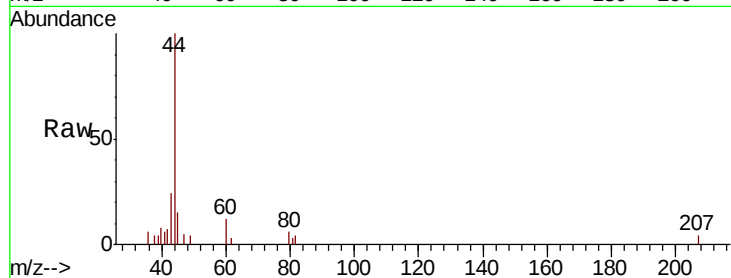
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 62 Resp: 63

Ion Ratio Lower Upper

62 100

64 0.0 25.4 38.2#



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO

2.45

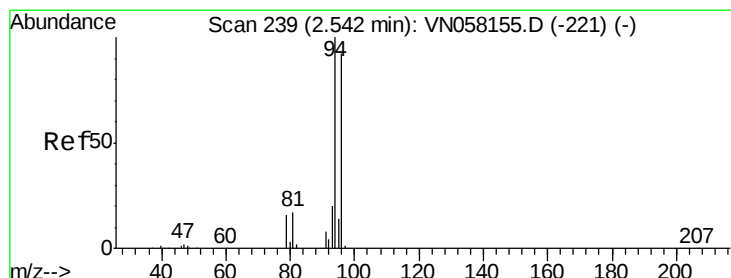
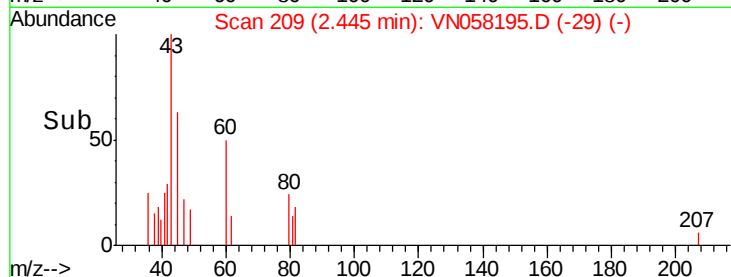
150

100

50

0

Time-->



#5

Bromomethane

Concen: 0.761 ug/l

RT: 2.54 min Scan# 238

Delta R.T. -0.00 min

Lab File: VN058195.D

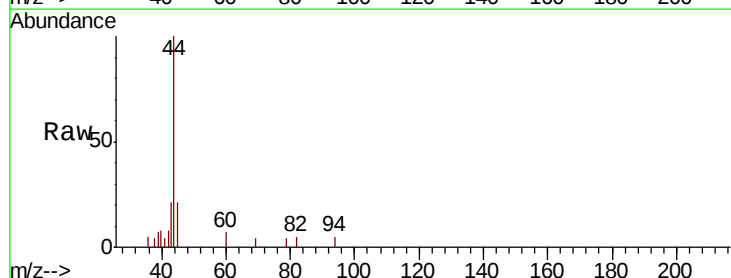
Acq: 19 Sep 2019 11:18

Tgt Ion: 94 Resp: 77

Ion Ratio Lower Upper

94 100

96 0.0 73.3 109.9#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.54

200

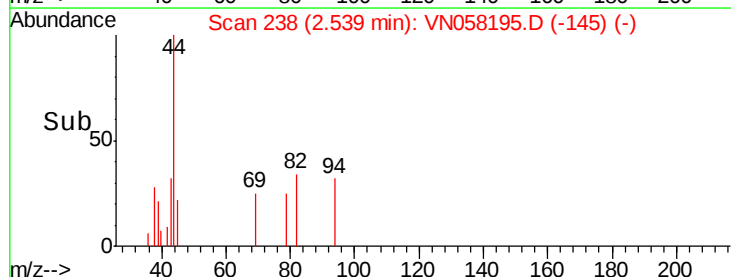
150

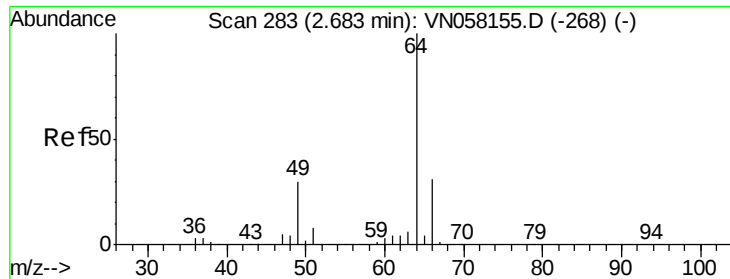
100

50

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 2.77 min Scan# 311

Delta R.T. 0.09 min

Lab File: VN058195.D

Acq: 19 Sep 2019 11:18

Instrument :

MSVOA_N

ClientSampleId :

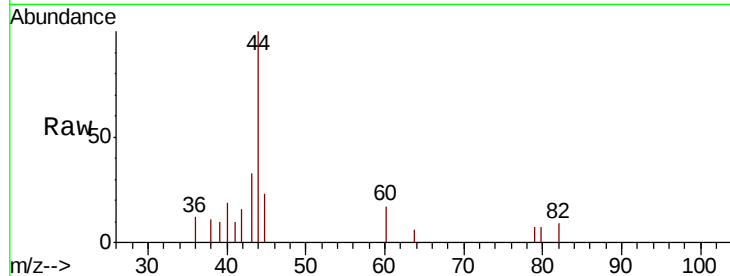
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 64 Resp: 29

Ion Ratio Lower Upper

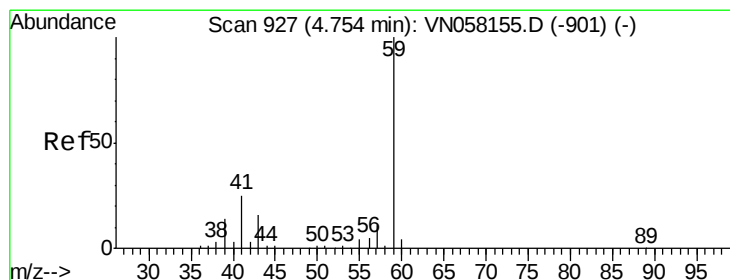
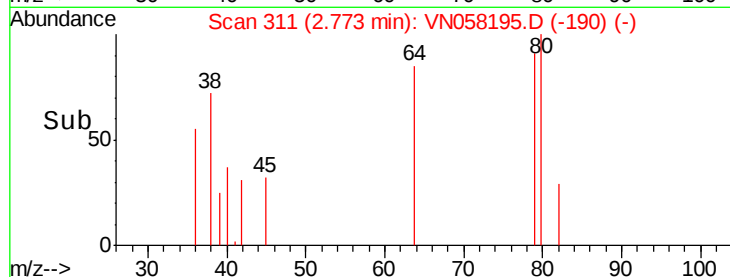
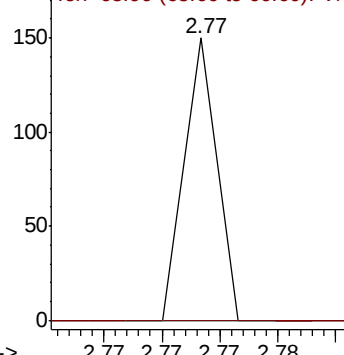
64 100

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



#11

Tert butyl alcohol

Concen: 0.329 ug/l

RT: 4.75 min Scan# 925

Delta R.T. -0.01 min

Lab File: VN058195.D

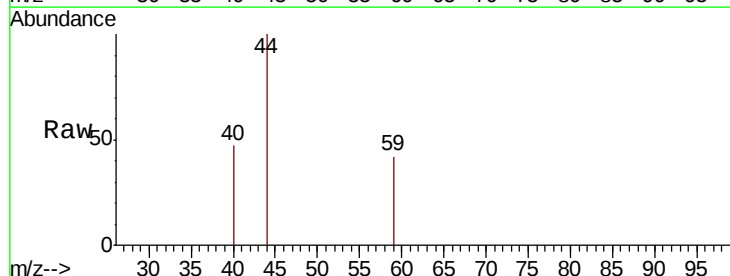
Acq: 19 Sep 2019 11:18

Tgt Ion: 59 Resp: 296

Ion Ratio Lower Upper

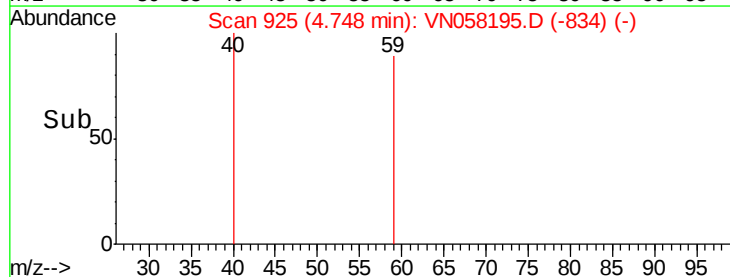
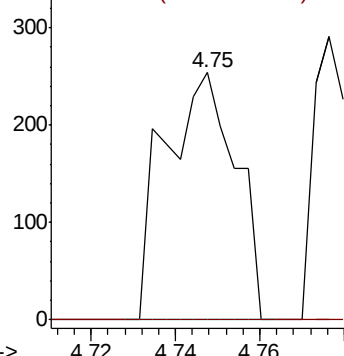
59 100

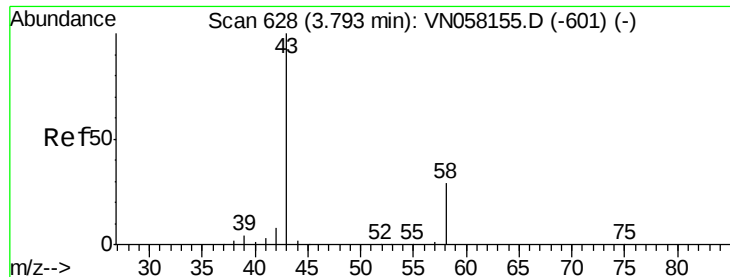
57 0.0 8.6 13.0#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: 6.124 ug/l

RT: 3.81 min Scan# 632

Delta R.T. 0.01 min

Lab File: VN058195.D

Acq: 19 Sep 2019 11:18

Instrument :

MSVOA_N

ClientSampleId :

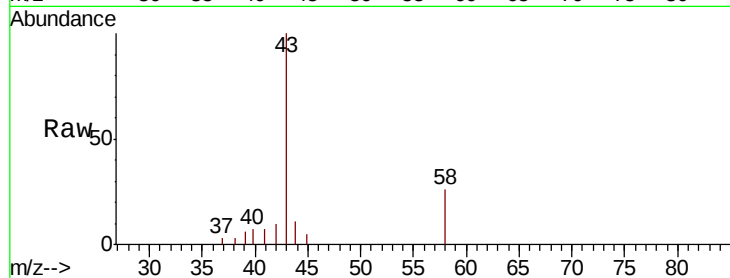
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 43 Resp: 15711

Ion Ratio Lower Upper

43 100

58 25.6 23.4 35.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.81

6000

5000

4000

3000

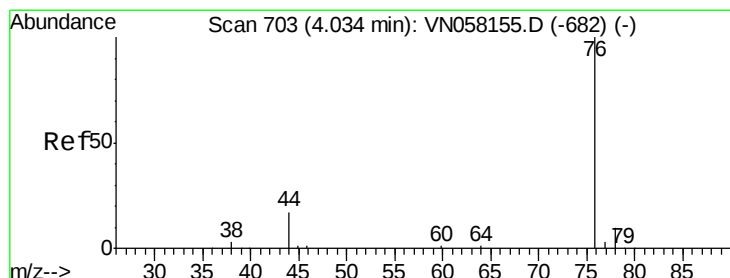
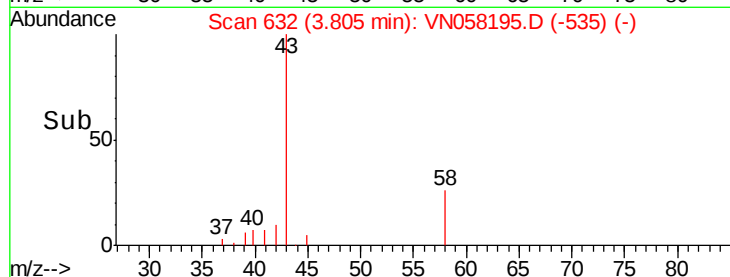
2000

1000

0

Time-->

3.70 3.75 3.80 3.85



#17

Carbon Disulfide

Concen: 0.313 ug/l

RT: 4.02 min Scan# 700

Delta R.T. -0.01 min

Lab File: VN058195.D

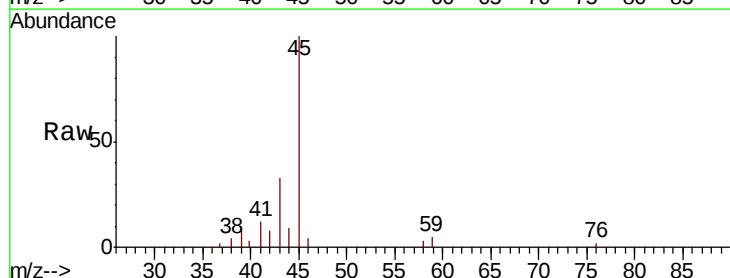
Acq: 19 Sep 2019 11:18

Tgt Ion: 76 Resp: 200

Ion Ratio Lower Upper

76 100

78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.02

250

200

150

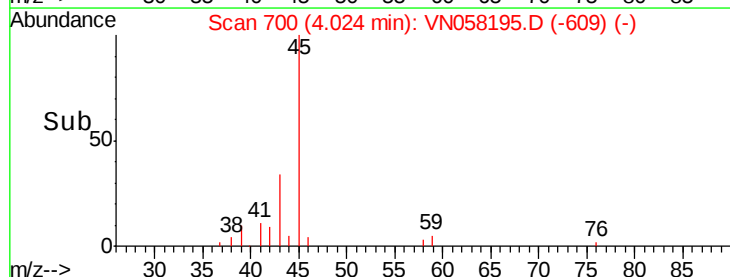
100

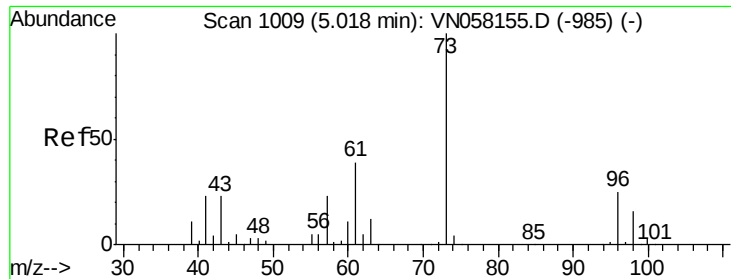
50

0

Time-->

4.01 4.02 4.03

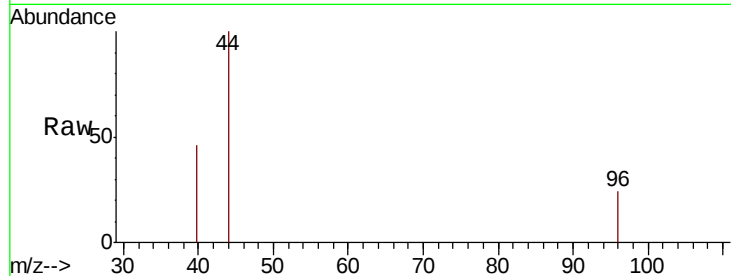




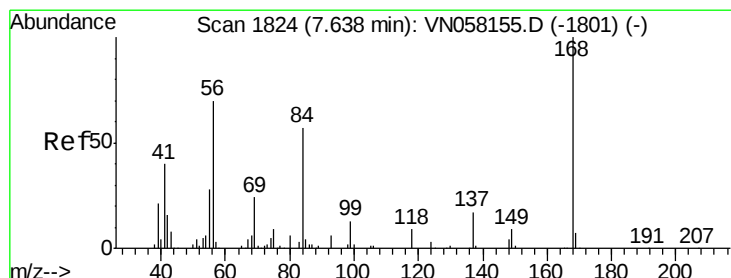
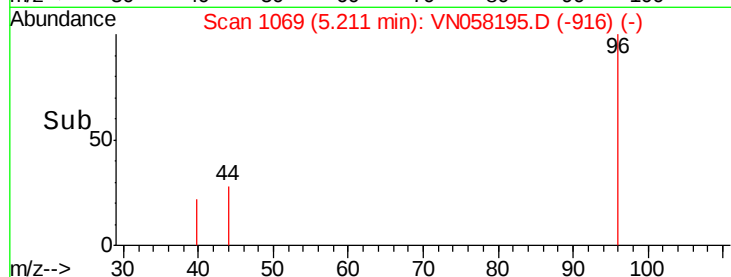
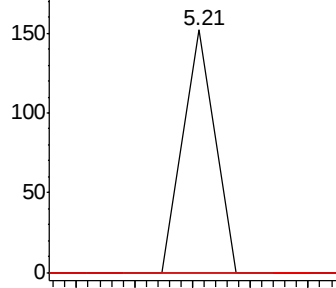
#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 5.21 min Scan# 1069
Delta R.T. 0.19 min
Lab File: VN058195.D
Acq: 19 Sep 2019 11:18

Instrument :
MSVOA_N
ClientSampleId :
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 96 Resp: 29
Ion Ratio Lower Upper
96 100
61 0.0 122.2 183.4#
98 0.0 49.9 74.9#

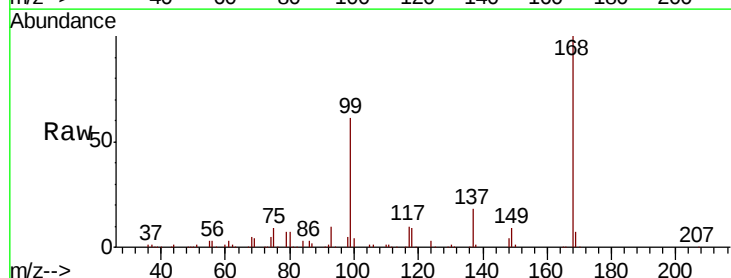


Abundance Ion 95.90 (95.60 to 96.60): VNO
Ion 60.90 (60.60 to 61.60): VNO
Ion 97.90 (97.60 to 98.60): VNO

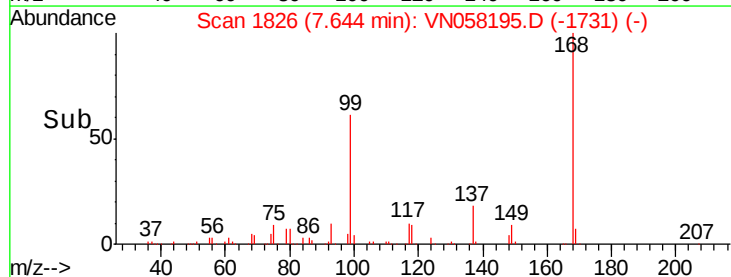
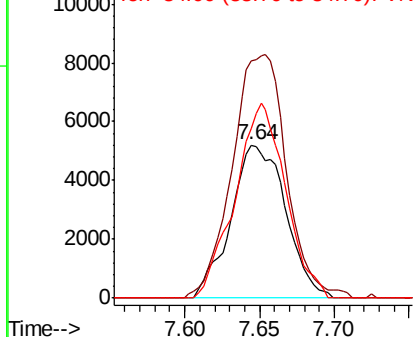


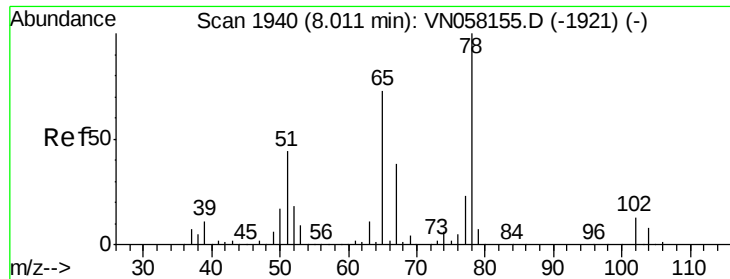
#31
Cyclohexane
Concen: Below Cal
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN058195.D
Acq: 19 Sep 2019 11:18

Tgt Ion: 56 Resp: 13250
Ion Ratio Lower Upper
56 100
69 152.3 27.3 40.9#
84 111.1 65.0 97.4#



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





#33

1,2-Dichloroethane-d4

Concen: 47.892 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. -0.00 min

Lab File: VN058195.D

Acq: 19 Sep 2019 11:18

Instrument :

MSVOA_N

ClientSampleId :

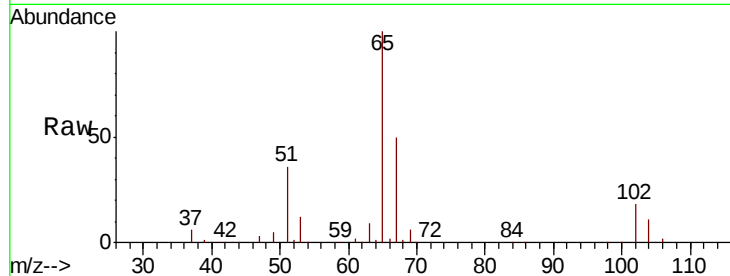
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 65 Resp: 361944

Ion Ratio Lower Upper

65 100

67 50.6 0.0 103.4



Abundance Ion 64.90 (64.60 to 65.60): VN058195.D (-1921) (-)

Ion 66.90 (66.60 to 67.60): VN058195.D (-1921) (-)

8.01

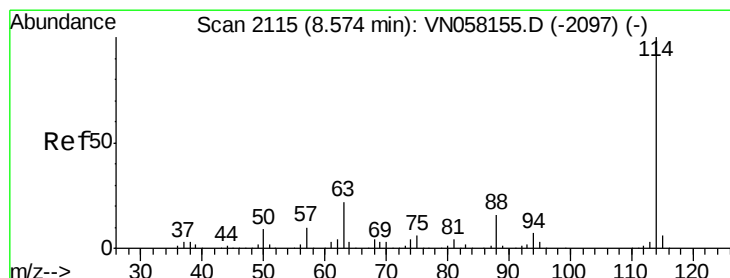
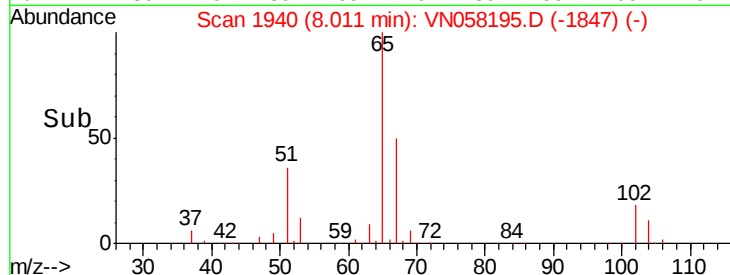
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. -0.00 min

Lab File: VN058195.D

Acq: 19 Sep 2019 11:18

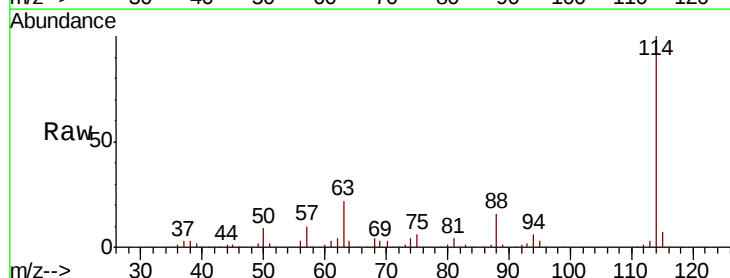
Tgt Ion: 114 Resp: 875437

Ion Ratio Lower Upper

114 100

63 21.8 0.0 44.2

88 16.1 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): VN058195.D (-2097) (-)

Ion 63.00 (62.70 to 63.70): VN058195.D (-2097) (-)

Ion 87.90 (87.60 to 88.60): VN058195.D (-2097) (-)

8.57

500000

400000

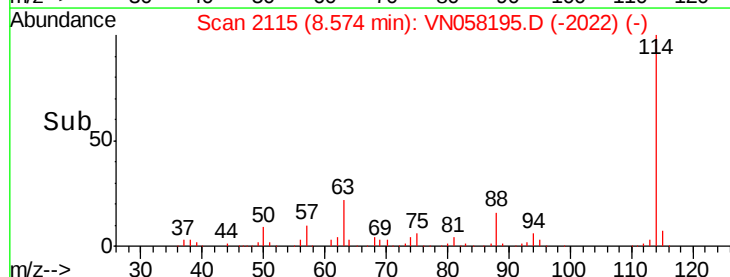
300000

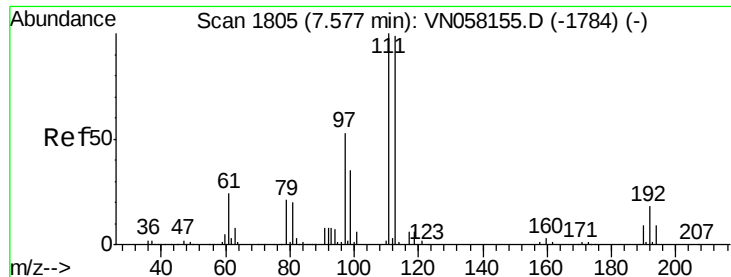
200000

100000

0

Time-->

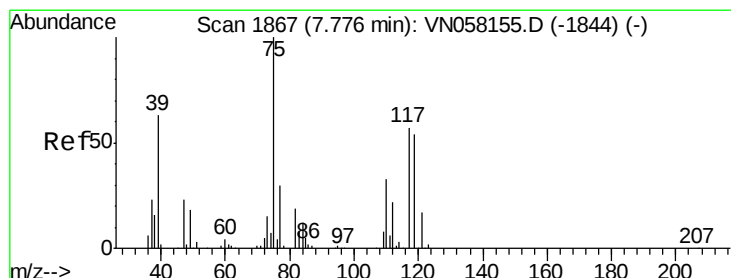
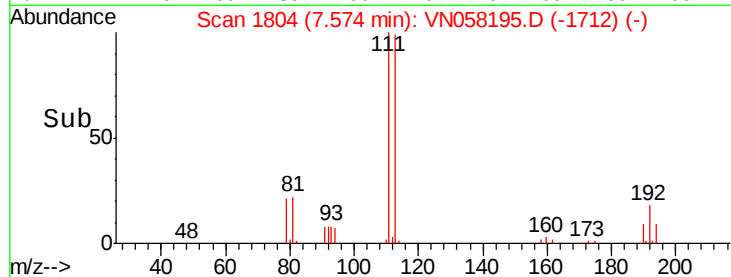
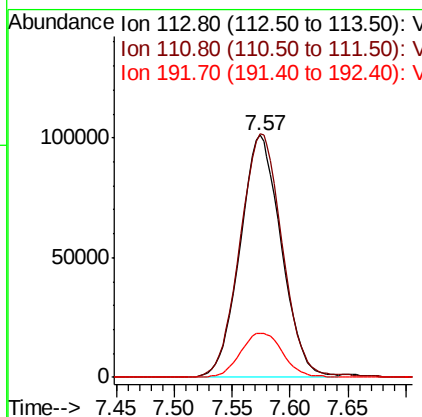
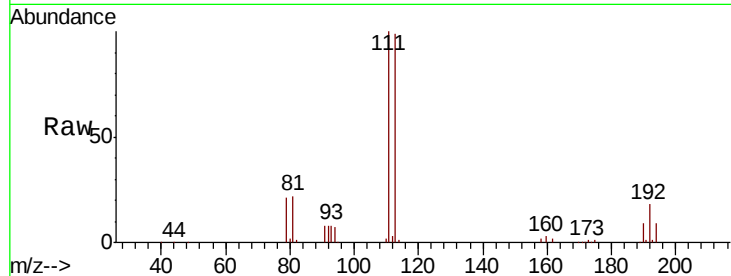




#35
Dibromofluoromethane
Concen: 47.005 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. -0.00 min
Lab File: VN058195.D
Acq: 19 Sep 2019 11:18

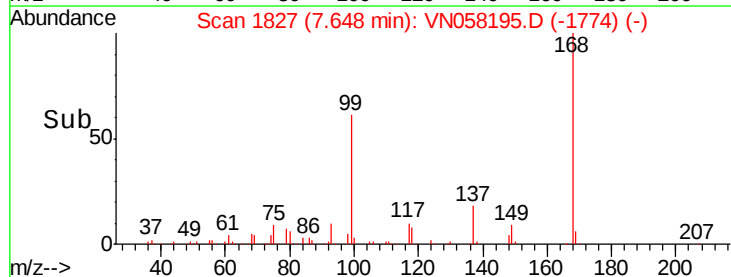
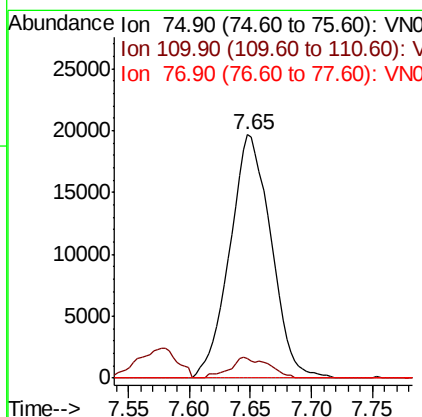
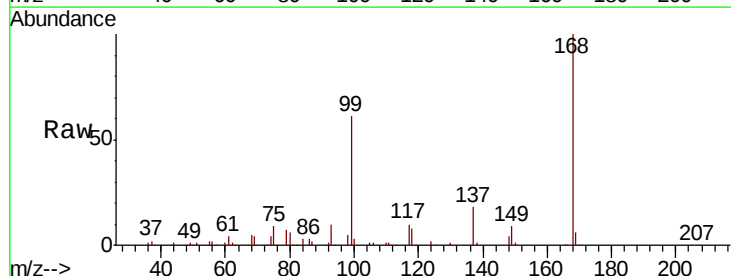
Instrument :
MSVOA_N
ClientSampleId :
STORAGE-BLANK-SOIL-REF-6

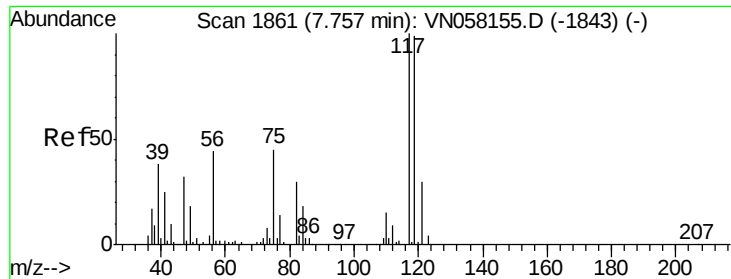
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.8	81.8	122.6
192	19.0	14.5	21.7



#36
1,1-Dichloropropene
Concen: 7.314 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.13 min
Lab File: VN058195.D
Acq: 19 Sep 2019 11:18

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.0	16.6	49.7#
77	0.0	24.3	36.5#

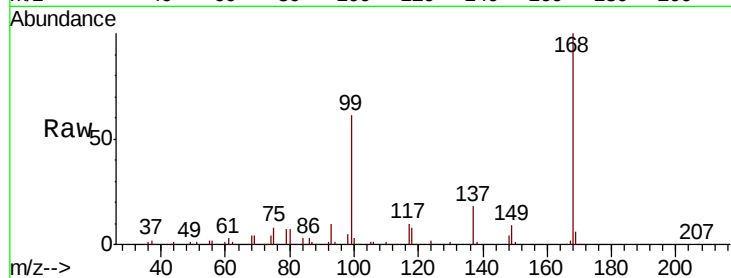




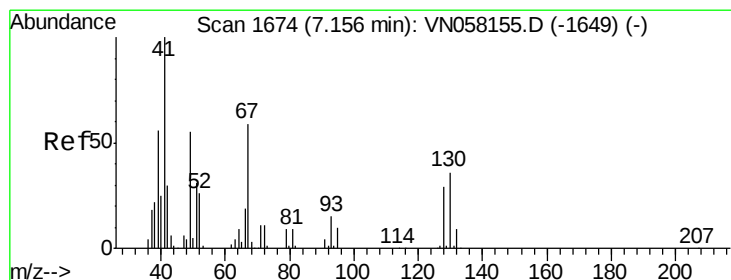
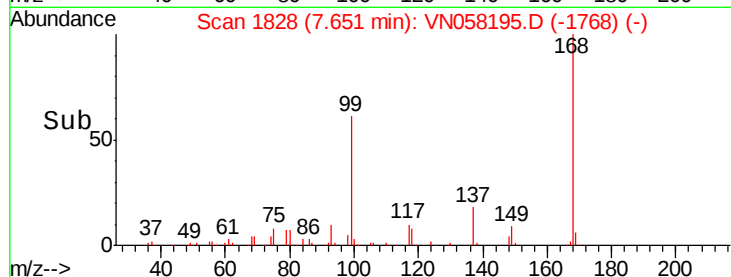
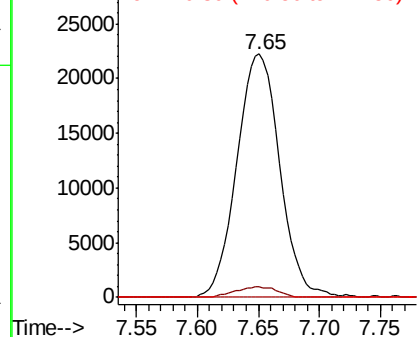
#38
Carbon Tetrachloride
Concen: 8.542 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.11 min
Lab File: VN058195.D
Acq: 19 Sep 2019 11:18

Instrument :
MSVOA_N
ClientSampleId :
STORAGE-BLANK-SOIL-REF-6

Tot Ion:117 Resp: 54209
Ion Ratio Lower Upper
117 100
119 4.4 78.6 117.8#
121 0.0 24.1 36.1#



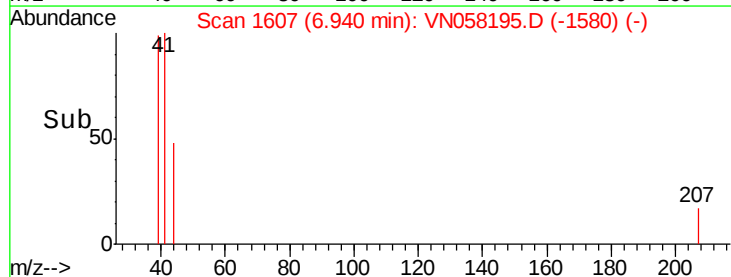
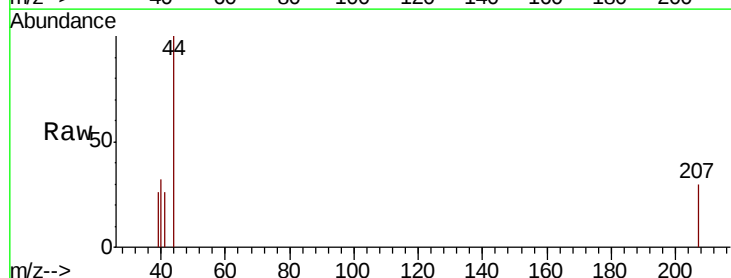
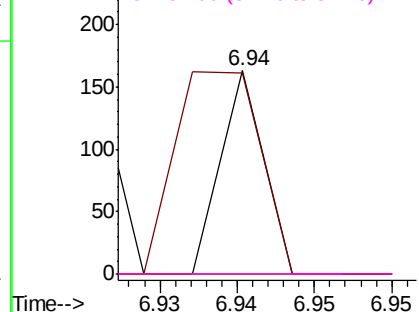
Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

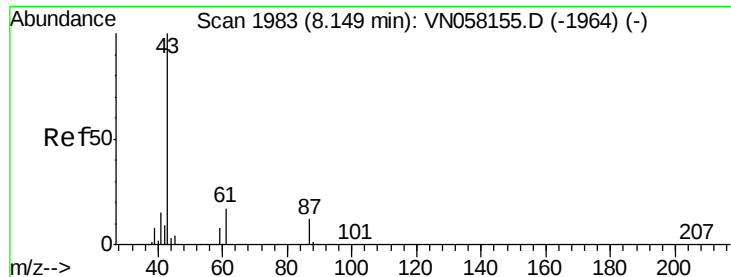


#41
Methacrylonitrile
Concen: 0.920 ug/l
RT: 6.94 min Scan# 1607
Delta R.T. -0.21 min
Lab File: VN058195.D
Acq: 19 Sep 2019 11:18

Tgt Ion: 41 Resp: 31
Ion Ratio Lower Upper
41 100
39 200.0 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): V
Ion 39.00 (38.70 to 39.70): V
Ion 67.00 (66.70 to 67.70): V
Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 1.358 ug/l

RT: 8.22 min Scan# 2006

Delta R.T. 0.07 min

Lab File: VN058195.D

Acq: 19 Sep 2019 11:18

Instrument :

MSVOA_N

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

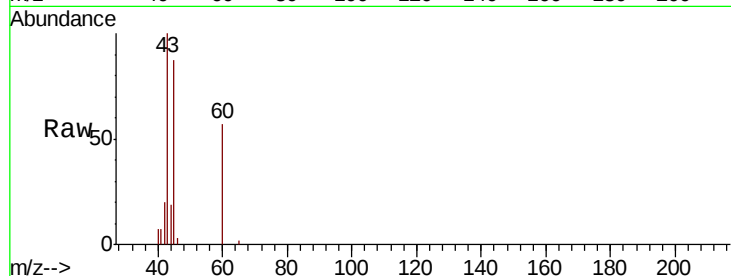
Tot Ion: 43 Resp: 16622

Ion Ratio Lower Upper

43 100

61 0.0 19.7 29.5#

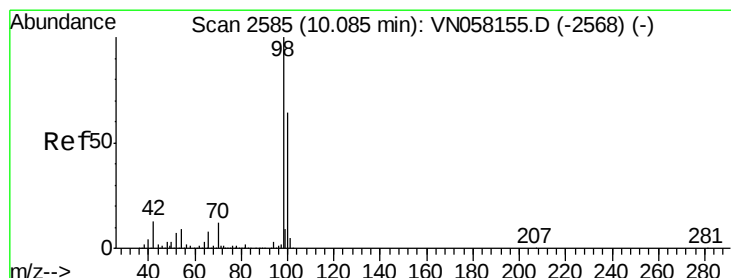
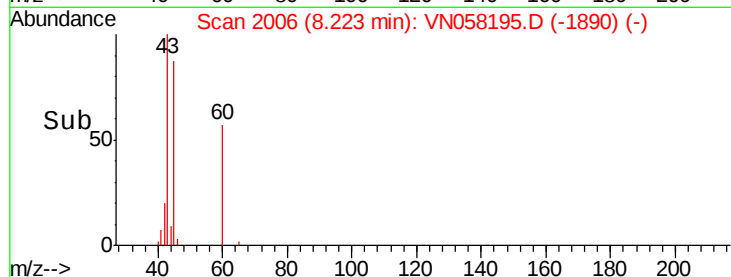
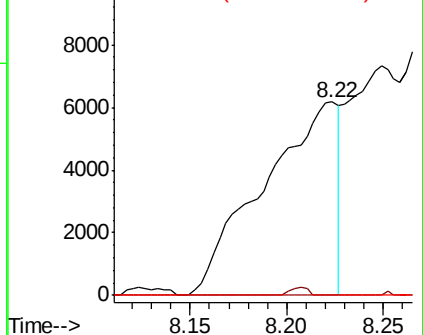
87 0.0 9.4 14.2#



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



#50

Toluene-d8

Concen: 49.709 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058195.D

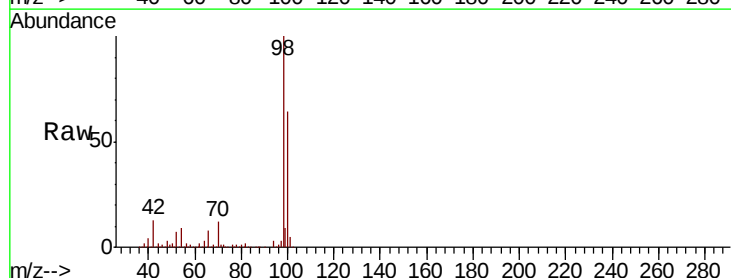
Acq: 19 Sep 2019 11:18

Tgt Ion: 98 Resp: 1030728

Ion Ratio Lower Upper

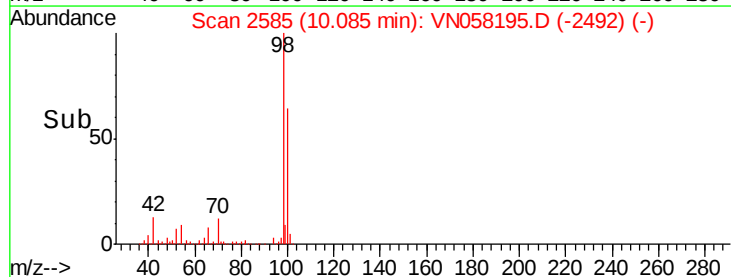
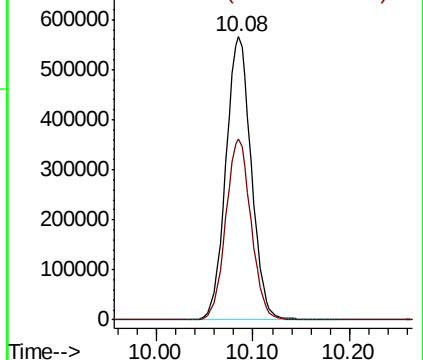
98 100

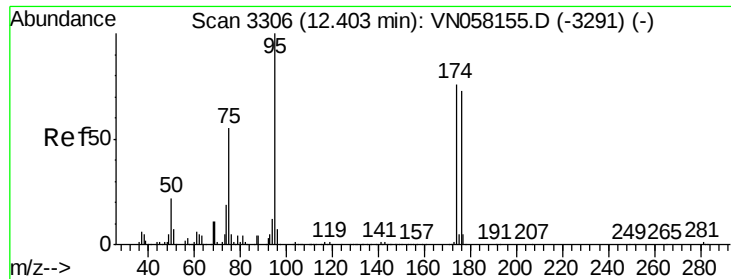
100 63.5 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#62

4-Bromofluorobenzene

Concen: 43.088 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.00 min

Lab File: VN058195.D

Acq: 19 Sep 2019 11:18

Instrument :

MSVOA_N

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

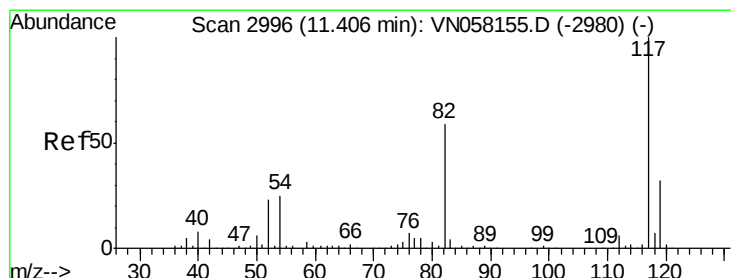
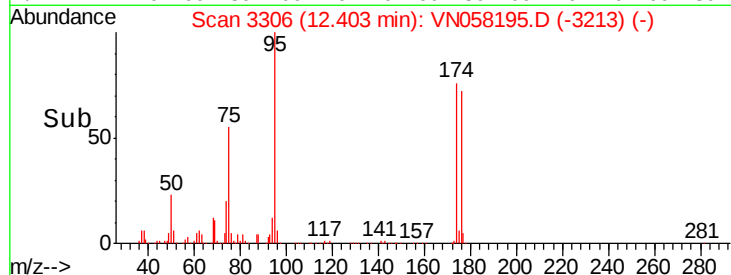
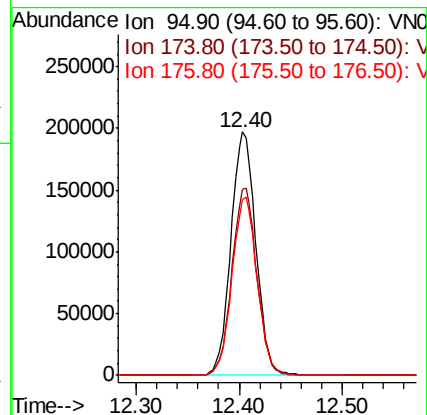
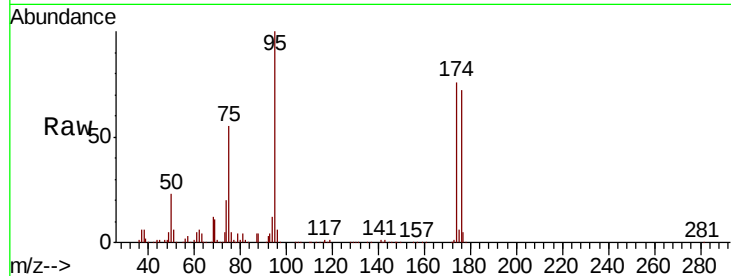
Tot Ion: 95 Resp: 331878

Ion Ratio Lower Upper

95 100

174 77.2 0.0 152.2

176 73.6 0.0 148.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN058195.D

Acq: 19 Sep 2019 11:18

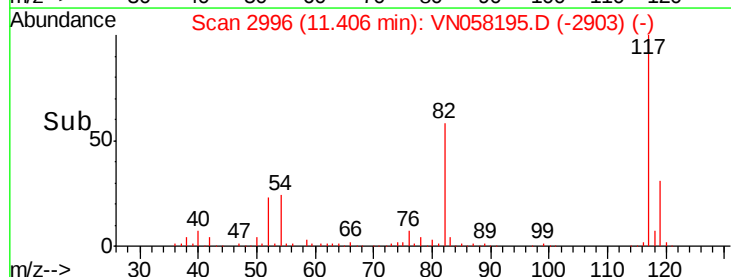
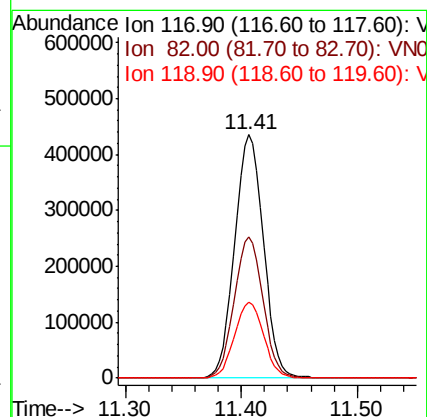
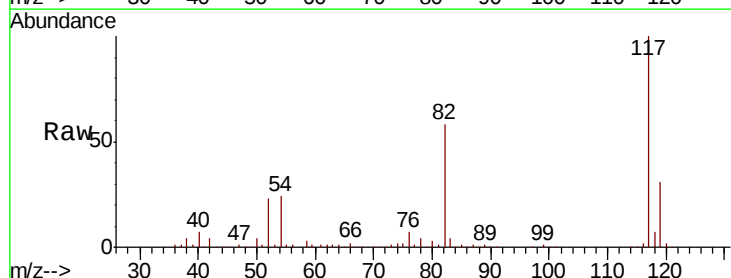
Tgt Ion: 117 Resp: 744767

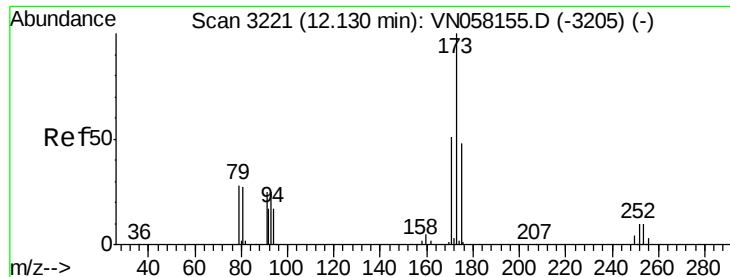
Ion Ratio Lower Upper

117 100

82 58.3 46.9 70.3

119 31.4 25.3 37.9

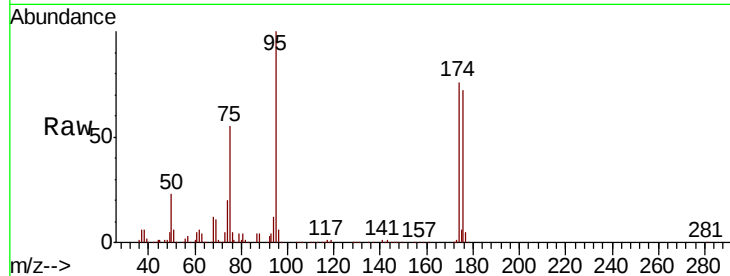




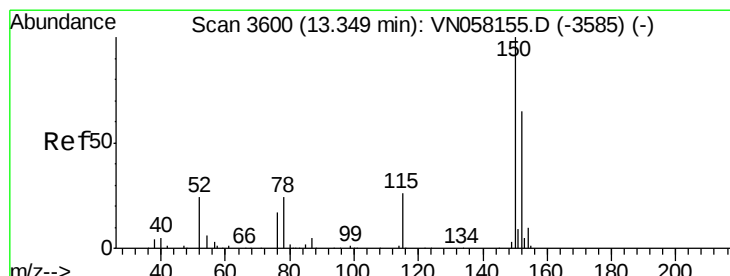
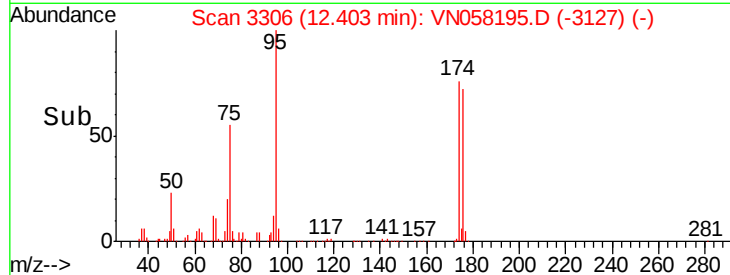
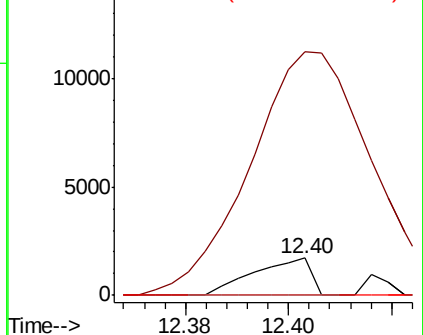
#71
 Bromoform
 Concen: 3.941 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.27 min
 Lab File: VN058195.D
 Acq: 19 Sep 2019 11:18

Instrument :
 MSVOA_N
 ClientSampleId :
 STORAGE-BLANK-SOIL-REF-6

Tot Ion:173 Resp: 1311
 Ion Ratio Lower Upper
 173 100
 175 1239.2 24.2 72.6#
 254 0.0 0.1 0.1#

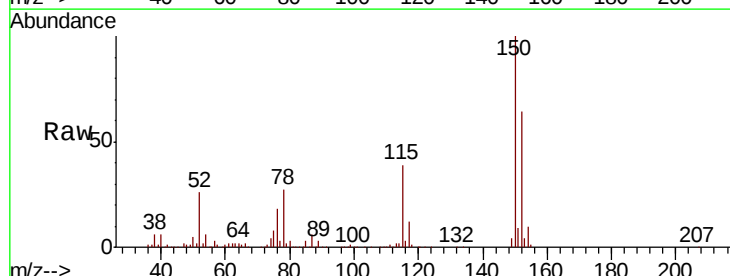


Abundance Ion 172.70 (172.40 to 173.40): V
 15000 Ion 174.70 (174.40 to 175.40): V
 Ion 254.40 (254.10 to 255.10): V

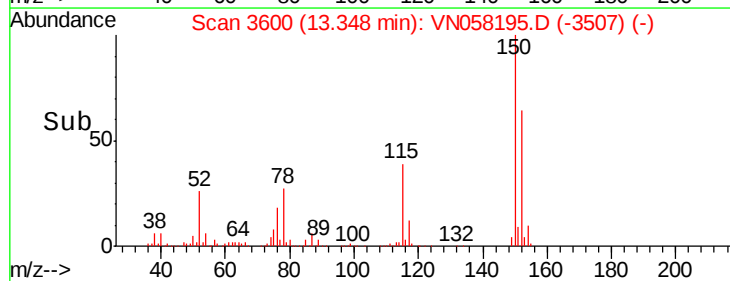
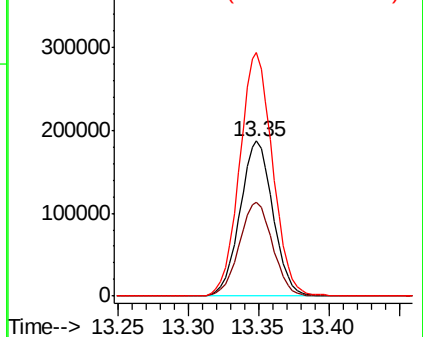


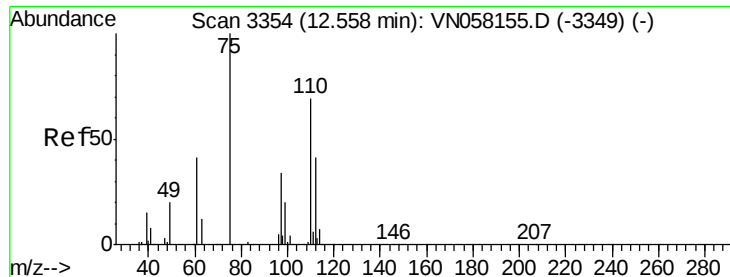
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.35 min Scan# 3600
 Delta R.T. -0.00 min
 Lab File: VN058195.D
 Acq: 19 Sep 2019 11:18

Tgt Ion:152 Resp: 305436
 Ion Ratio Lower Upper
 152 100
 115 61.3 30.1 90.3
 150 157.9 0.0 346.4



Abundance Ion 151.90 (151.60 to 152.60): V
 400000 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 33.512 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058195.D

Acq: 19 Sep 2019 11:18

Instrument :

MSVOA_N

ClientSampleId :

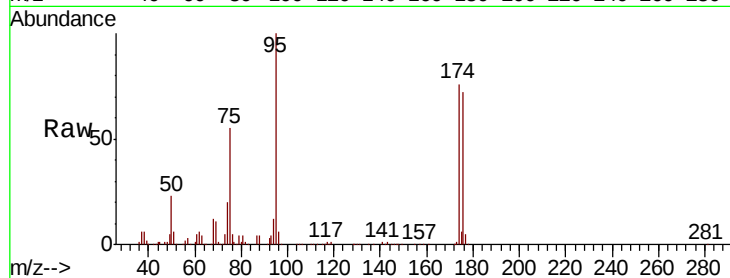
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 75 Resp: 183186

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.40

100000

80000

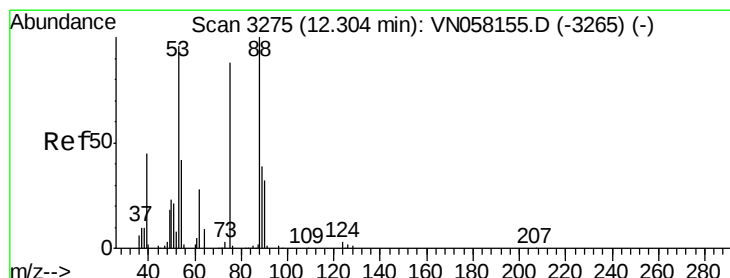
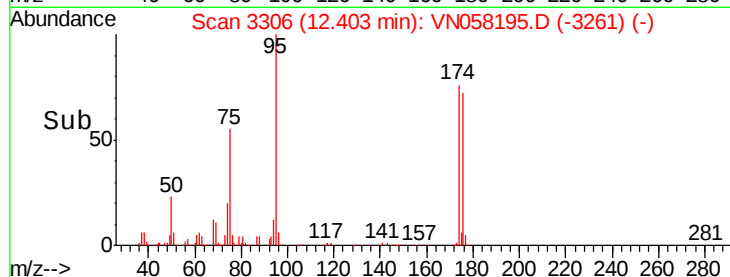
60000

40000

20000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 93.990 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058195.D

Acq: 19 Sep 2019 11:18

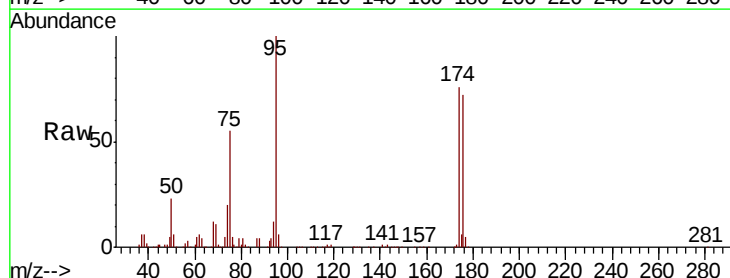
Tgt Ion: 75 Resp: 183186

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): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

150000

100000

50000

0

Time--> 12.30 12.40 12.50

