

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN093019\
 Data File : VN058430.D
 Acq On : 30 Sep 2019 13:21
 Operator : JC/SP
 Sample : K5080-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-MW184I-20190924

Quant Time: Oct 01 01:31:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 30 08:07:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	438583	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	728670	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	608691	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	238220	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	320594	50.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.04%	
35) Dibromofluoromethane	7.57	113	225945	50.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.18%	
50) Toluene-d8	10.09	98	907080	51.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.70%	
62) 4-Bromofluorobenzene	12.41	95	282867	44.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.44%	

Target Compounds

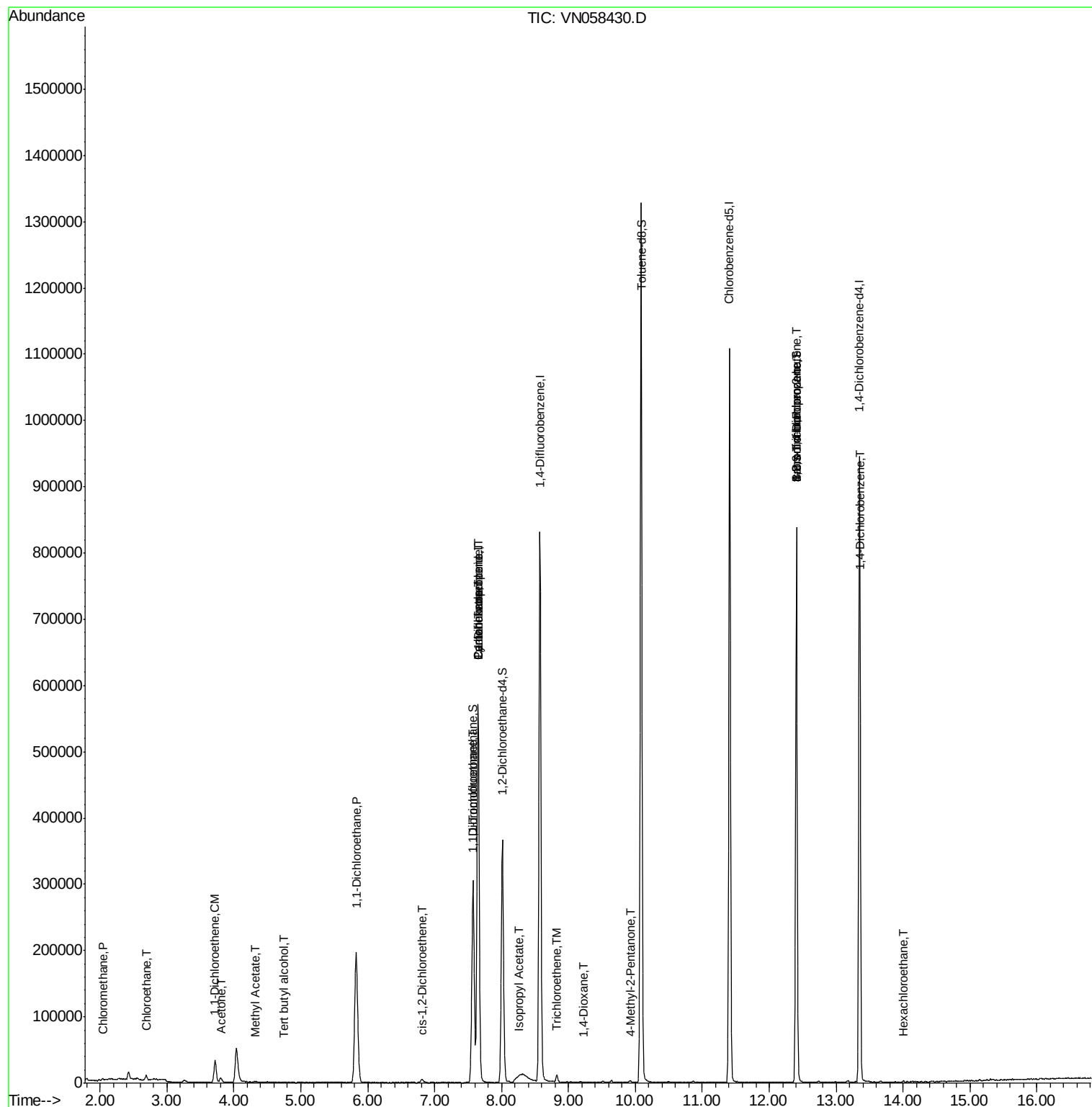
						Qvalue
3) Chloromethane	2.04	50	1479	0.280	ug/l #	84
6) Chloroethane	2.69	64	5697	1.836	ug/l	90
11) Tert butyl alcohol	4.76	59	594	0.834	ug/l #	71
12) 1,1-Dichloroethene	3.72	96	15623	3.776	ug/l	98
16) Acetone	3.80	43	13429	6.146	ug/l	89
18) Methyl Acetate	4.32	43	1453	0.264	ug/l #	53
24) 1,1-Dichloroethane	5.83	63	300069	32.907	ug/l	99
27) cis-1,2-Dichloroethene	6.81	96	1153	0.214	ug/l	44
31) Cyclohexane	7.65	56	10951	1.235	ug/l #	9
32) 1,1,1-Trichloroethane	7.56	97	10367	1.366	ug/l #	52
36) 1,1-Dichloropropene	7.65	75	38936	5.588	ug/l #	46
38) Carbon Tetrachloride	7.65	117	44883	7.137	ug/l #	17
43) Isopropyl Acetate	8.25	43	10825	0.974	ug/l #	63
44) Trichloroethene	8.82	130	3359	0.679	ug/l	95
49) 1,4-Dioxane	9.22	88	142	2.100	ug/l #	18
51) 4-Methyl-2-Pentanone	9.92	43	1173	0.206	ug/l #	37
71) Bromoform	12.41	173	673	0.930	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	159301	36.612	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	159301	111.194	ug/l #	7
88) 1,4-Dichlorobenzene	13.37	146	1946	0.261	ug/l #	1
90) Hexachloroethane	14.00	117	1592	0.735	ug/l #	11

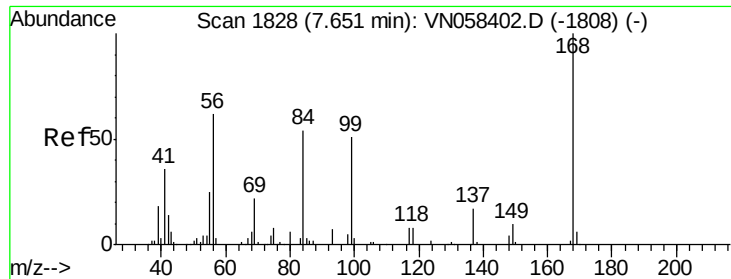
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN058430.D

Acq: 30 Sep 2019 13:21

Instrument :

MSVOA_N

ClientSampleId :

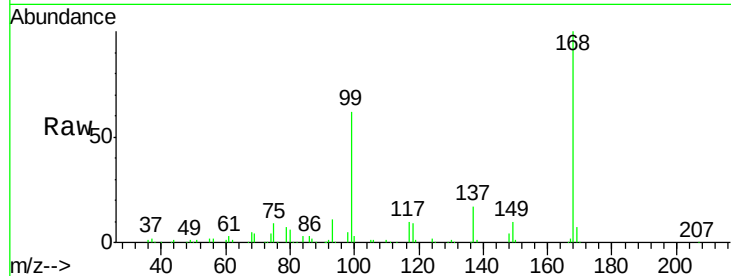
SA-MW184I-20190924

Tot Ion:168 Resp: 438583

Ion Ratio Lower Upper

168 100

99 62.2 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.65

200000

150000

100000

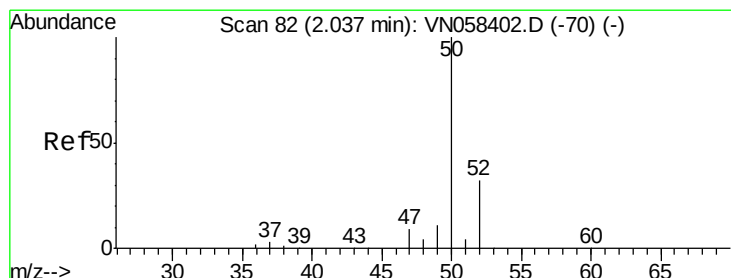
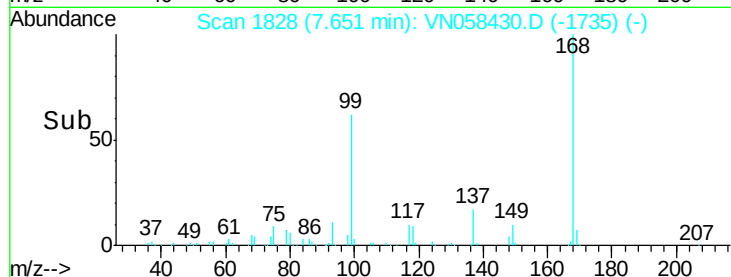
50000

0

7.60

7.70

Time-->



#3

Chloromethane

Concen: 0.280 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN058430.D

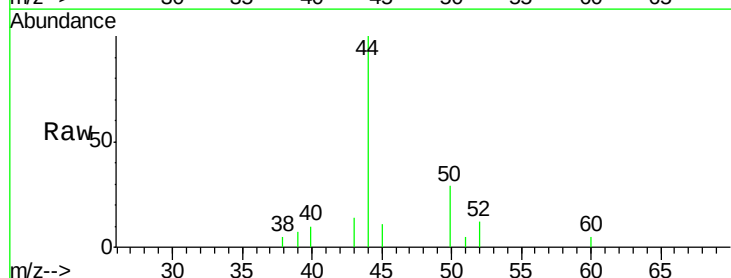
Acq: 30 Sep 2019 13:21

Tgt Ion: 50 Resp: 1479

Ion Ratio Lower Upper

50 100

52 41.2 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.04

1000

800

600

400

200

0

2.00

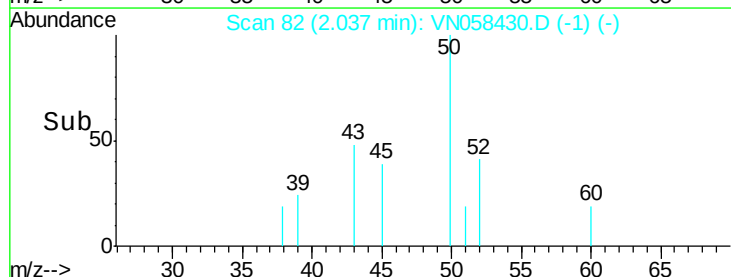
2.02

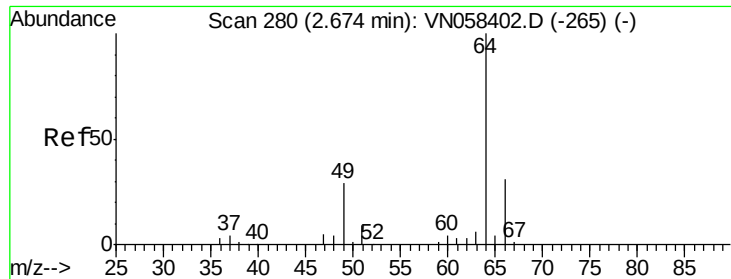
2.04

2.06

2.08

Time-->





#6

Chloroethane

Concen: 1.836 ug/l

RT: 2.69 min Scan# 285

Delta R.T. 0.02 min

Lab File: VN058430.D

Acq: 30 Sep 2019 13:21

Instrument :

MSVOA_N

ClientSampleId :

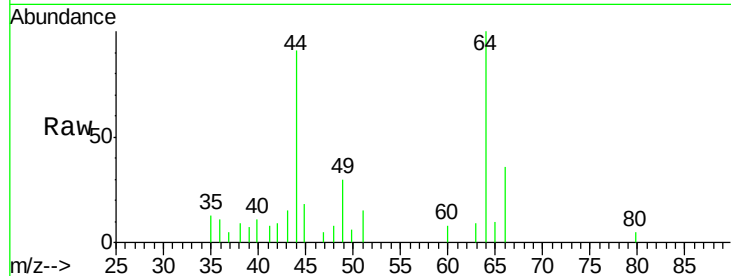
SA-MW184I-20190924

Tot Ion: 64 Resp: 5697

Ion Ratio Lower Upper

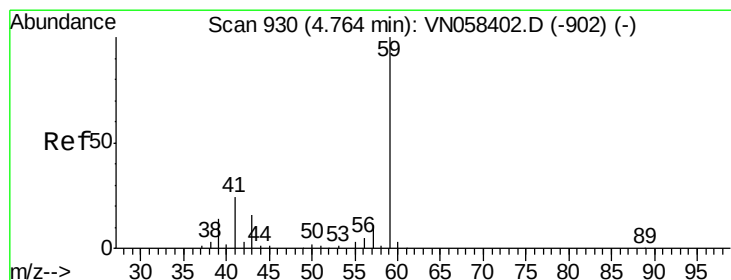
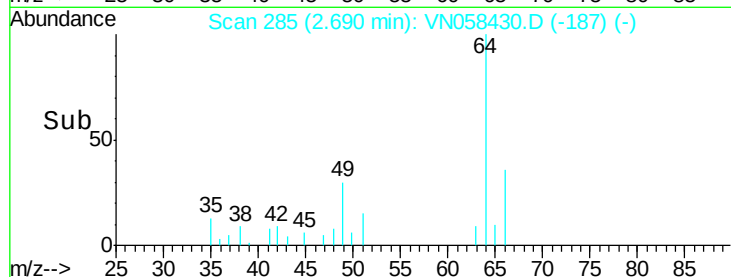
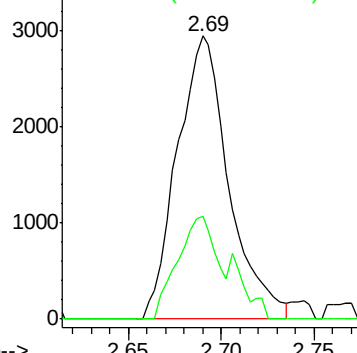
64 100

66 36.2 24.4 36.6



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0



#11

Tert butyl alcohol

Concen: 0.834 ug/l

RT: 4.76 min Scan# 929

Delta R.T. -0.00 min

Lab File: VN058430.D

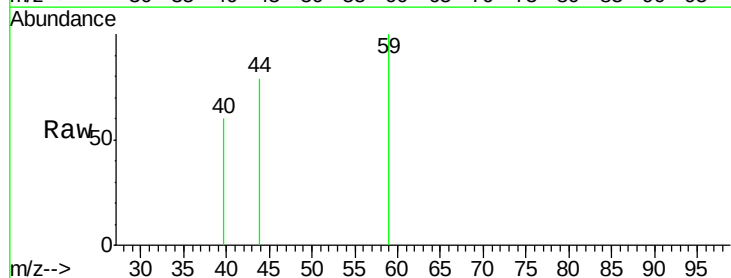
Acq: 30 Sep 2019 13:21

Tgt Ion: 59 Resp: 594

Ion Ratio Lower Upper

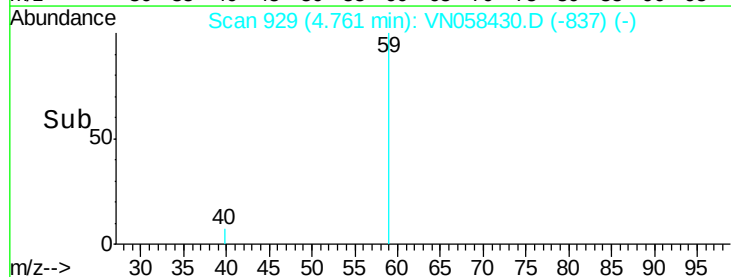
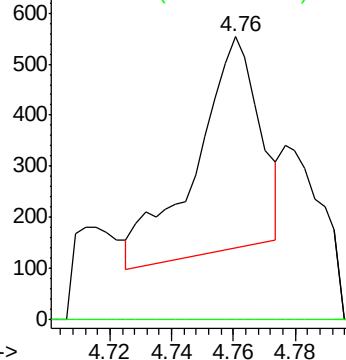
59 100

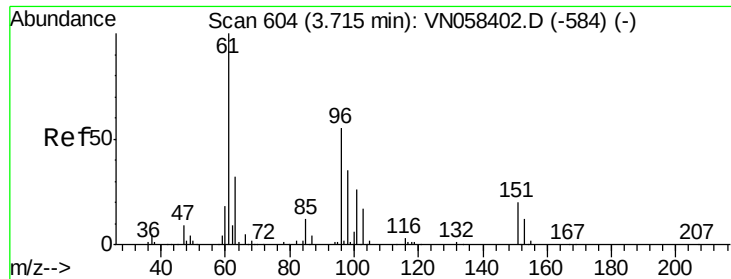
57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#12

1,1-Dichloroethene

Concen: 3.776 ug/l

RT: 3.72 min Scan# 605

Delta R.T. 0.00 min

Lab File: VN058430.D

Acq: 30 Sep 2019 13:21

Instrument :

MSVOA_N

ClientSampleId :

SA-MW184I-20190924

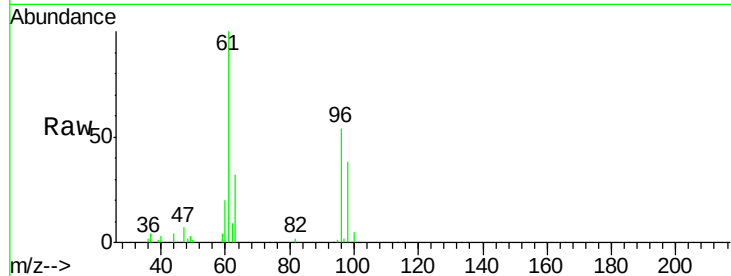
Tot Ion: 96 Resp: 15623

Ion Ratio Lower Upper

96 100

61 183.2 146.7 220.1

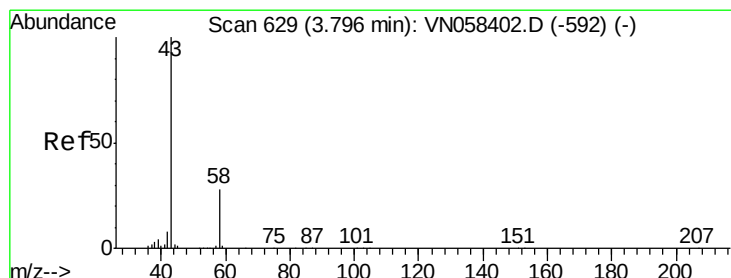
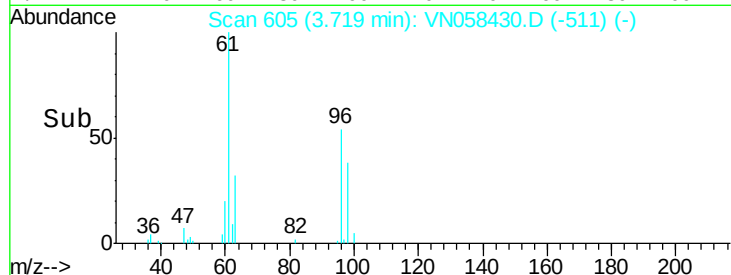
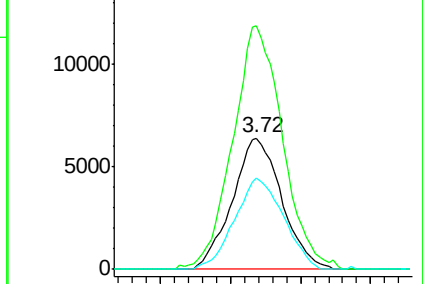
98 69.7 51.3 76.9



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



#16

Acetone

Concen: 6.146 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN058430.D

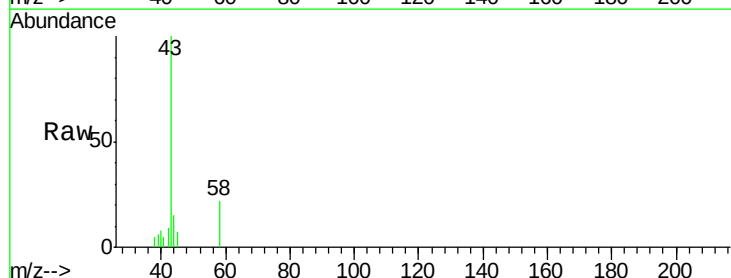
Acq: 30 Sep 2019 13:21

Tgt Ion: 43 Resp: 13429

Ion Ratio Lower Upper

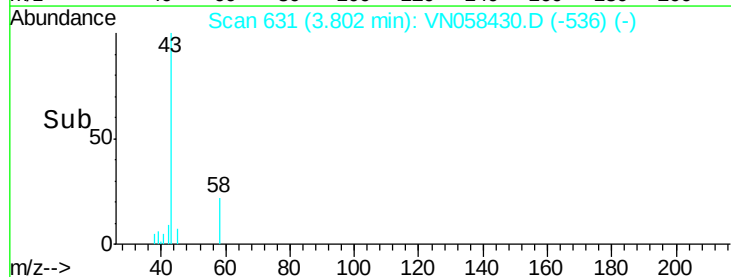
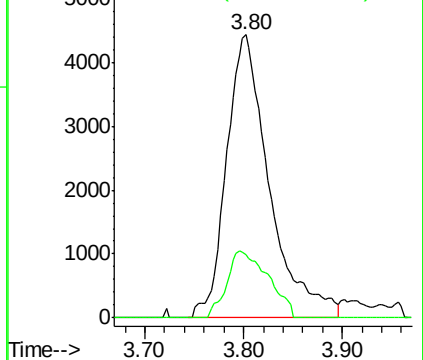
43 100

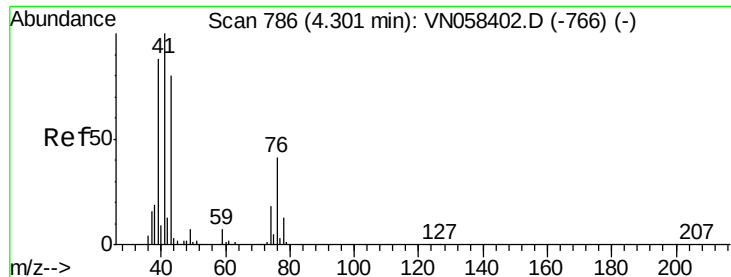
58 22.4 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

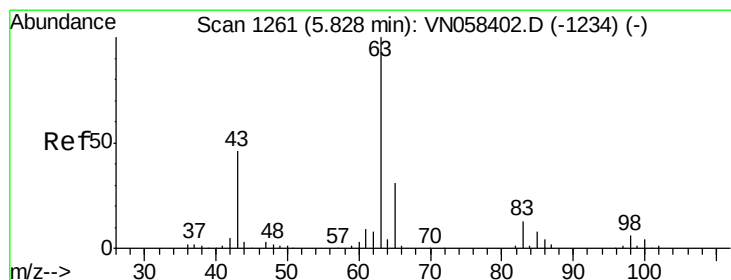
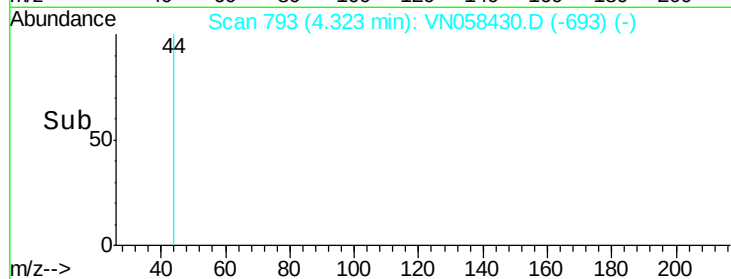
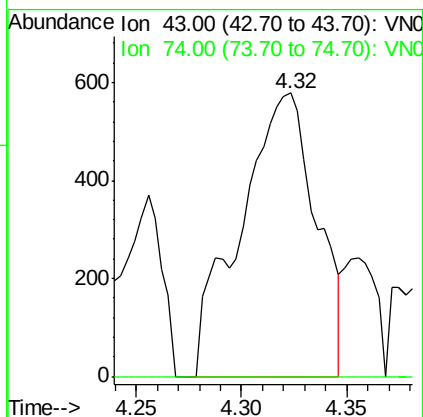
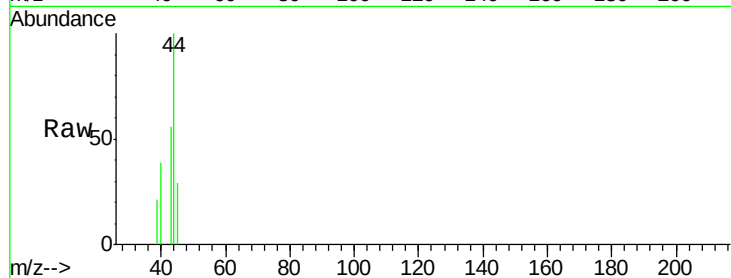




#18
Methyl Acetate
Concen: 0.264 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.02 min
Lab File: VN058430.D
Acq: 30 Sep 2019 13:21

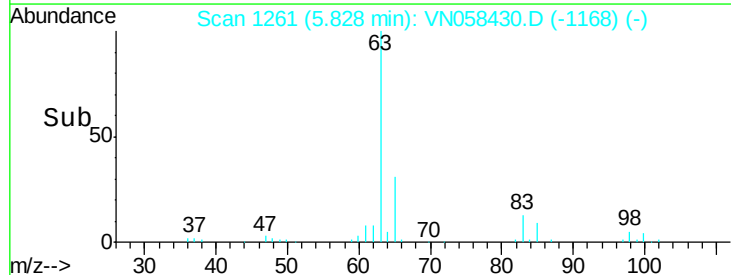
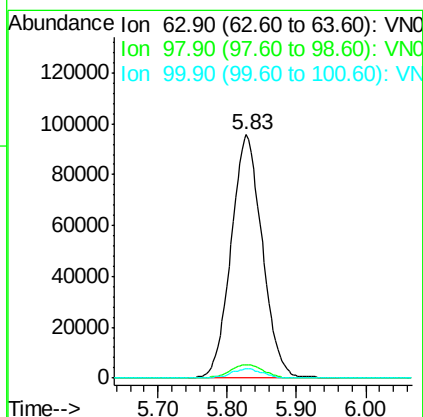
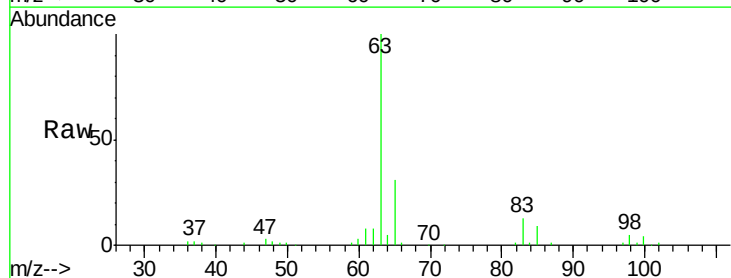
Instrument :
MSVOA_N
ClientSampleId :
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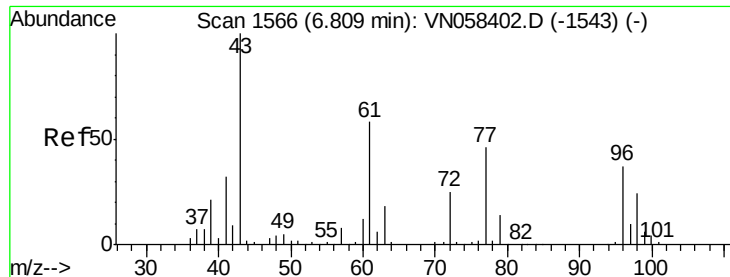
Tot Ion: 43 Resp: 1453
Ion Ratio Lower Upper
43 100
74 0.0 18.0 27.0#



#24
1,1-Dichloroethane
Concen: 32.907 ug/l
RT: 5.83 min Scan# 1261
Delta R.T. 0.00 min
Lab File: VN058430.D
Acq: 30 Sep 2019 13:21

Tgt Ion: 63 Resp: 300069
Ion Ratio Lower Upper
63 100
98 5.5 3.0 9.0
100 3.9 2.0 5.8





#27

cis-1,2-Dichloroethene

Concen: 0.214 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. -0.00 min

Lab File: VN058430.D

Acq: 30 Sep 2019 13:21

Instrument :

MSVOA_N

ClientSampleId :

SA-MW184I-20190924

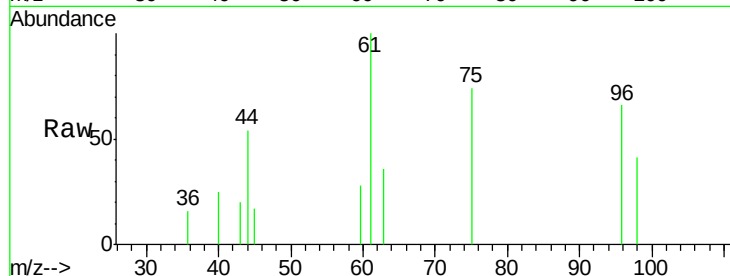
Tot Ion: 96 Resp: 1153

Ion Ratio Lower Upper

96 100

61 257.5 0.0 318.8

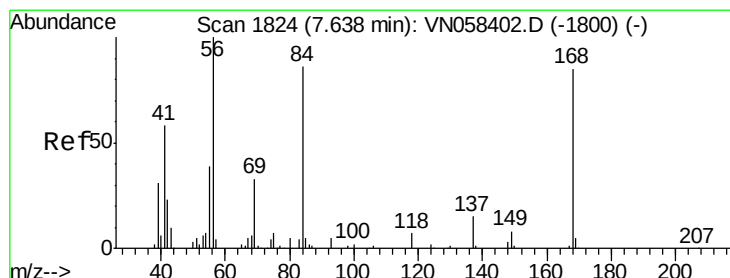
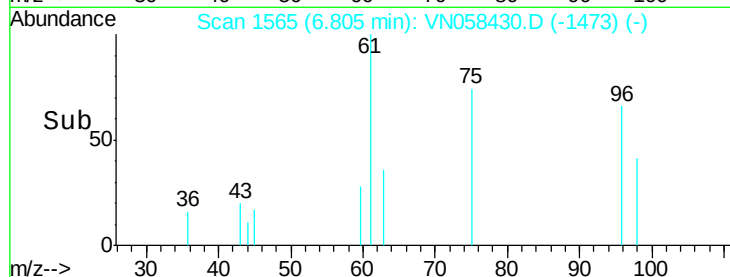
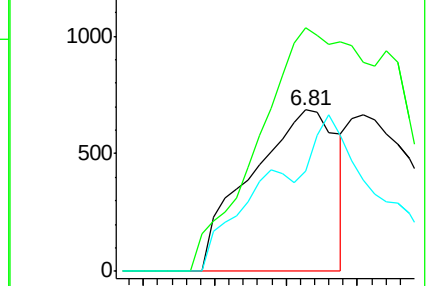
98 74.4 0.0 129.8



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: 1.235 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN058430.D

Acq: 30 Sep 2019 13:21

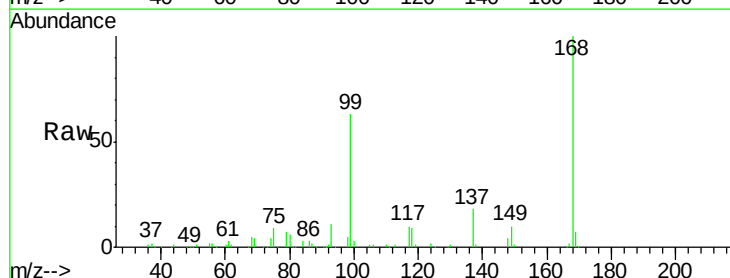
Tgt Ion: 56 Resp: 10951

Ion Ratio Lower Upper

56 100

69 172.6 26.2 39.4#

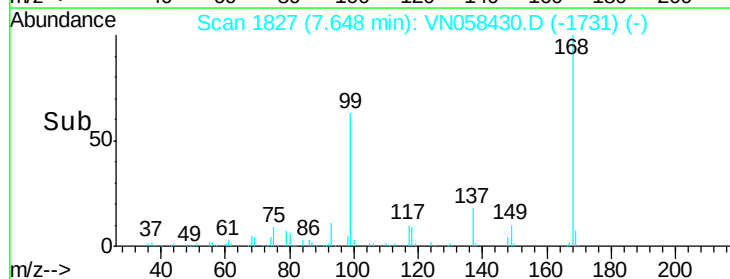
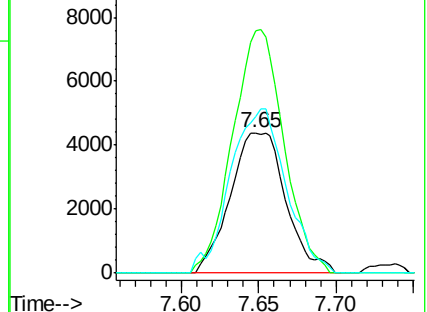
84 111.7 67.6 101.4#

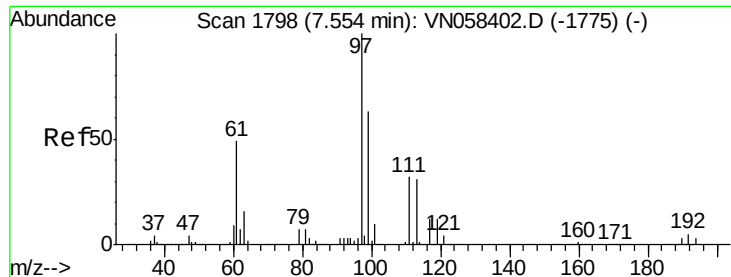


Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 84.00 (83.70 to 84.70): VNO





#32

1,1,1-Trichloroethane

Concen: 1.366 ug/l

RT: 7.56 min Scan# 1799

Delta R.T. 0.00 min

Lab File: VN058430.D

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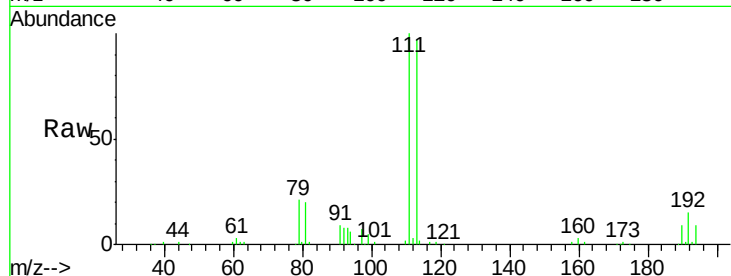
Tot Ion: 97 Resp: 10367

Ion Ratio Lower Upper

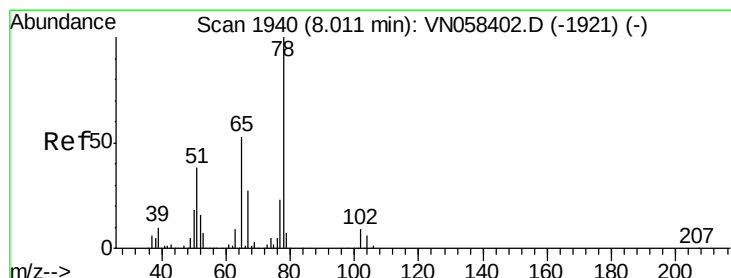
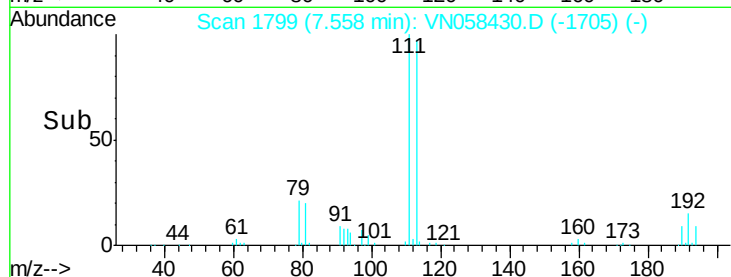
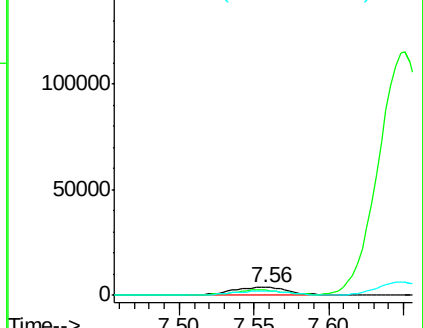
97 100

99 0.0 51.1 76.7#

61 51.4 39.2 58.8



Abundance Ion 96.90 (96.60 to 97.60): VNC
Ion 98.90 (98.60 to 99.60): VNC
Ion 60.90 (60.60 to 61.60): VNC



#33

1,2-Dichloroethane-d4

Concen: 50.021 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058430.D

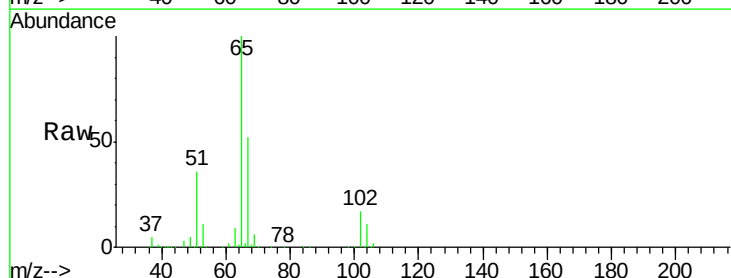
Acq: 30 Sep 2019 13:21

Tgt Ion: 65 Resp: 320594

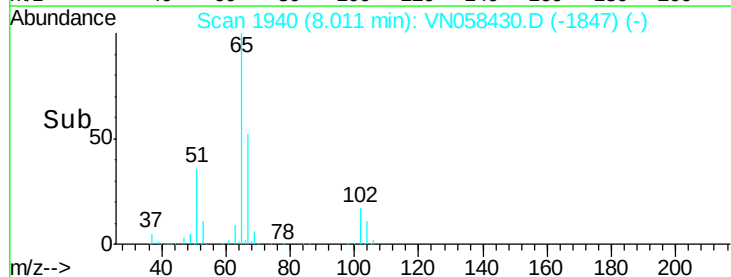
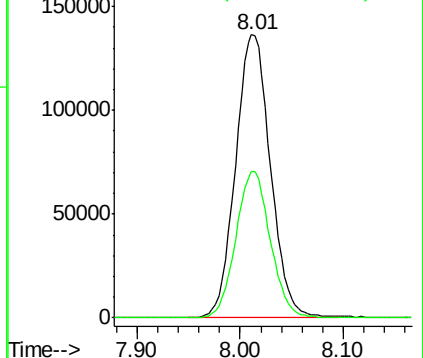
Ion Ratio Lower Upper

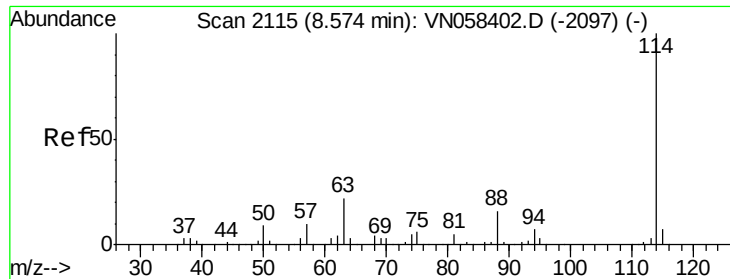
65 100

67 51.2 0.0 102.4



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: VN058430.D

Acq: 30 Sep 2019 13:21

Instrument :

MSVOA_N

ClientSampleId :

SA-MW184I-20190924

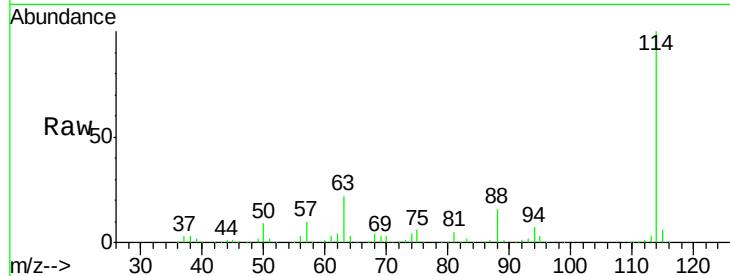
Tot Ion:114 Resp: 728670

Ion Ratio Lower Upper

114 100

63 21.8 0.0 45.0

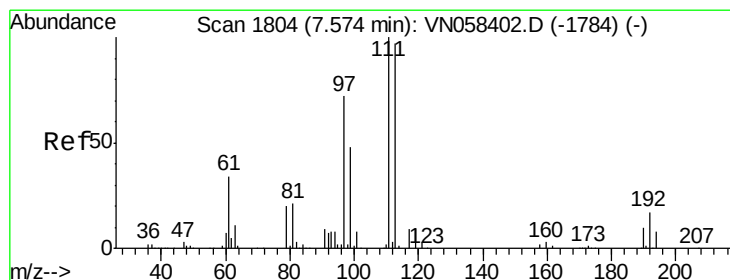
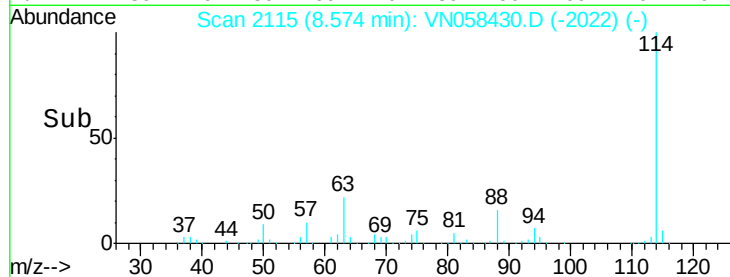
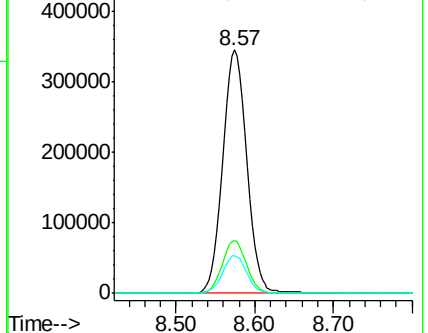
88 15.6 0.0 32.2



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: 50.593 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN058430.D

Acq: 30 Sep 2019 13:21

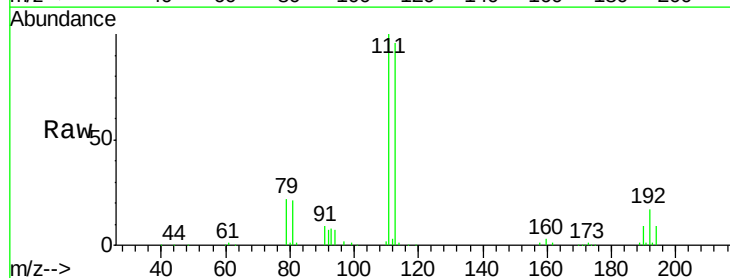
Tgt Ion:113 Resp: 225945

Ion Ratio Lower Upper

113 100

111 102.7 83.4 125.2

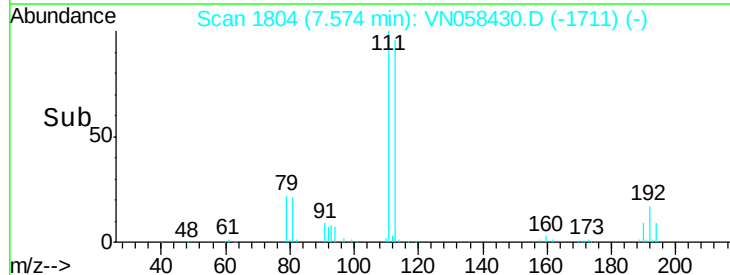
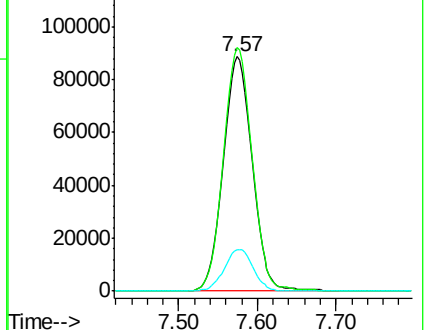
192 18.0 14.9 22.3

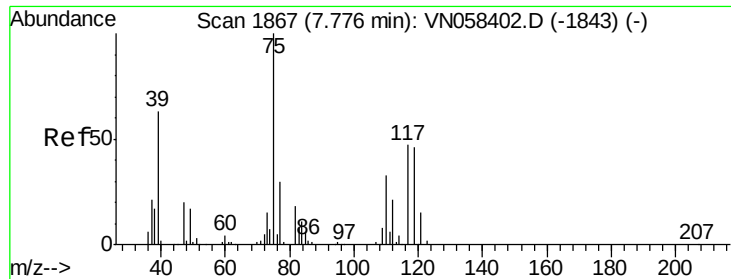


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

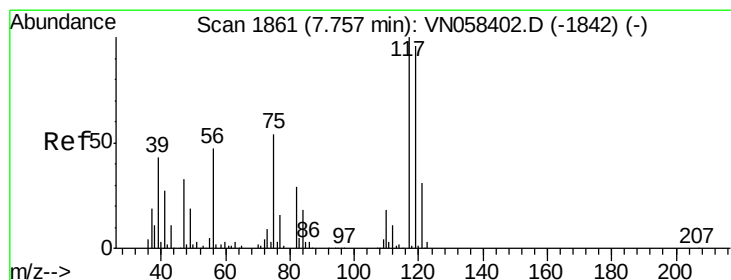
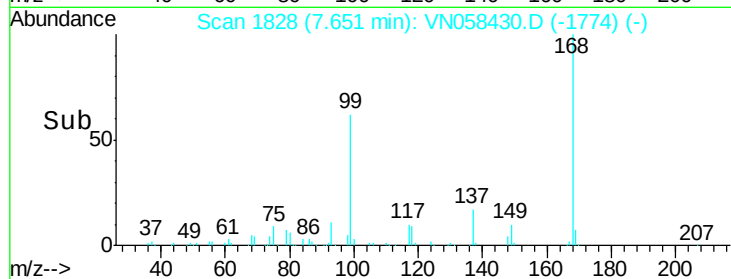
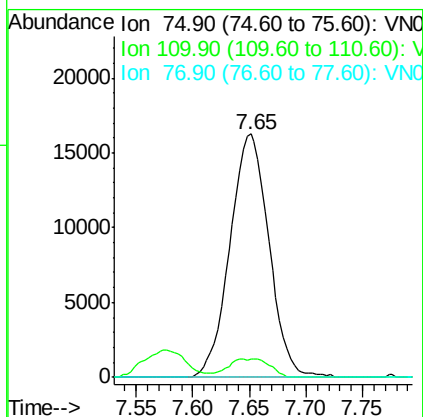
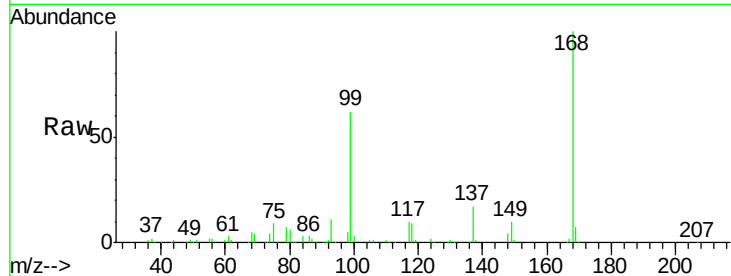




#36
 1,1-Dichloropropene
 Concen: 5.588 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058430.D
 Acq: 30 Sep 2019 13:21

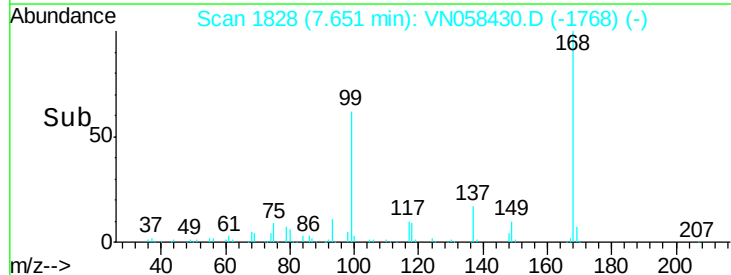
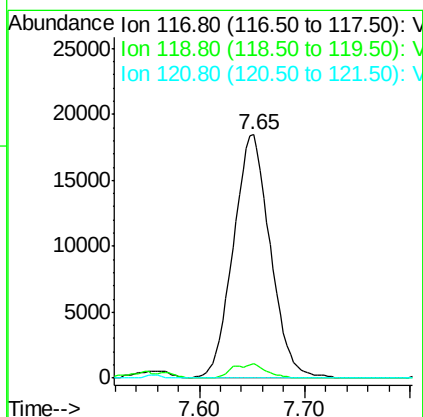
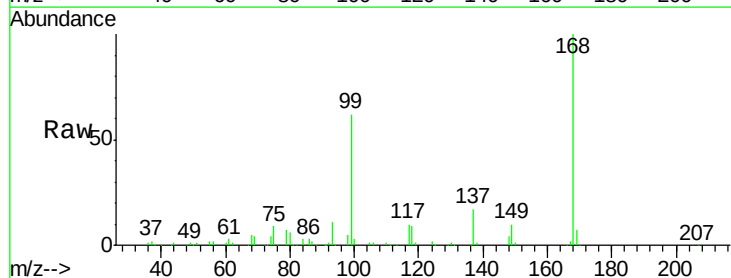
Instrument :
 MSVOA_N
 ClientSampleId :
 SA-MW184I-20190924

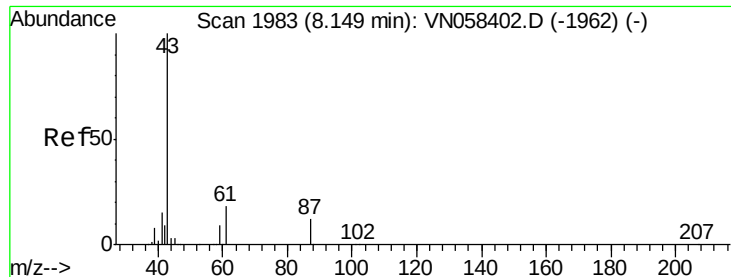
Tot Ion	Ratio	Lower	Upper
75	100		
110	2.8	16.4	49.2#
77	0.0	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 7.137 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN058430.D
 Acq: 30 Sep 2019 13:21

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.1	76.6	115.0#
121	0.0	24.7	37.1#





#43

Isopropyl Acetate

Concen: 0.974 ug/l

RT: 8.25 min Scan# 2015

Delta R.T. 0.10 min

Lab File: VN058430.D

Acq: 30 Sep 2019 13:21

Instrument :

MSVOA_N

ClientSampleId :

SA-MW184I-20190924

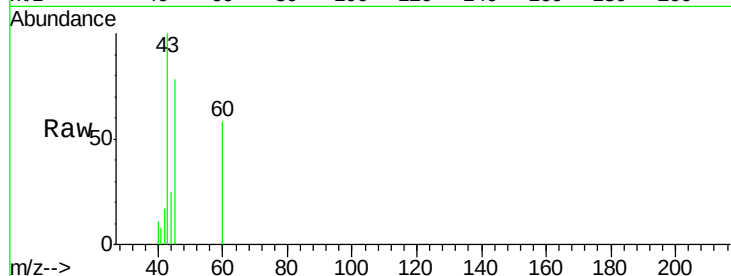
Tot Ion: 43 Resp: 10825

Ion Ratio Lower Upper

43 100

61 0.0 14.8 22.2#

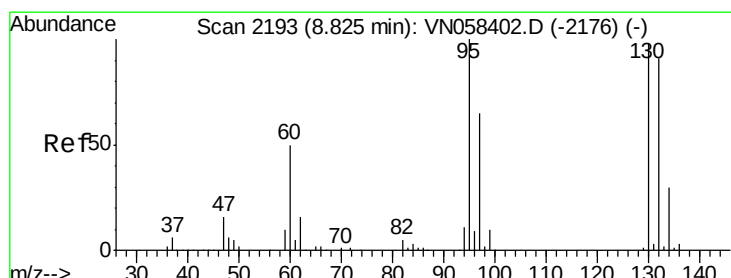
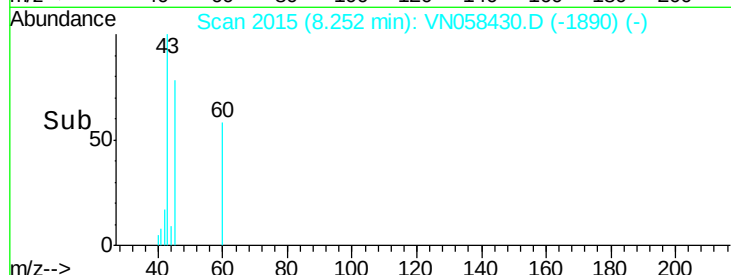
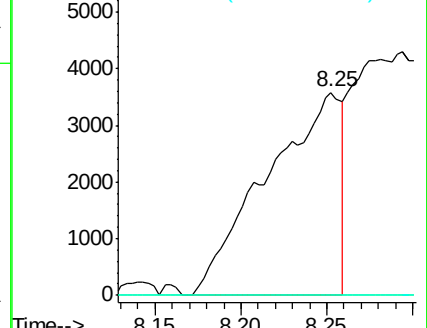
87 0.0 9.7 14.5#



Abundance Ion 43.00 (42.70 to 43.70): VN058430.D (-2015) (-)

Ion 61.00 (60.70 to 61.70): VN058430.D (-2015) (-)

Ion 87.00 (86.70 to 87.70): VN058430.D (-2015) (-)



#44

Trichloroethene

Concen: 0.679 ug/l

RT: 8.82 min Scan# 2192

Delta R.T. -0.00 min

Lab File: VN058430.D

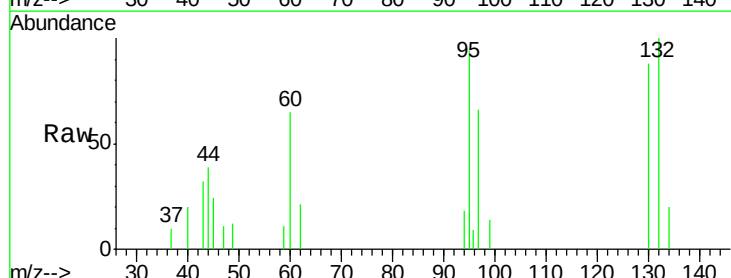
Acq: 30 Sep 2019 13:21

Tgt Ion: 130 Resp: 3359

Ion Ratio Lower Upper

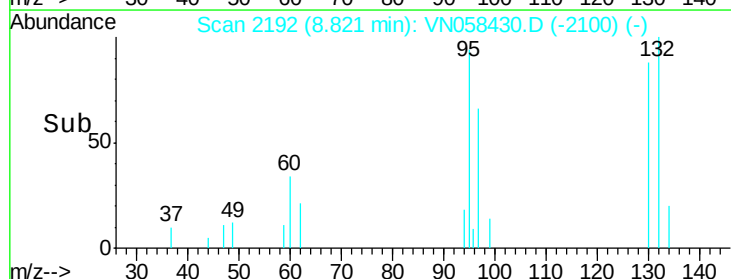
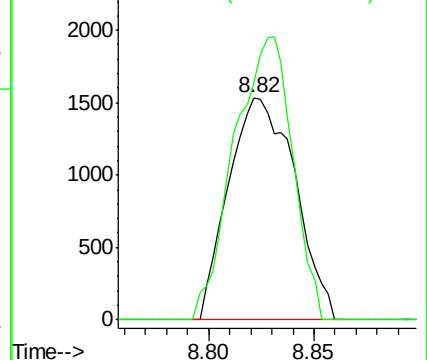
130 100

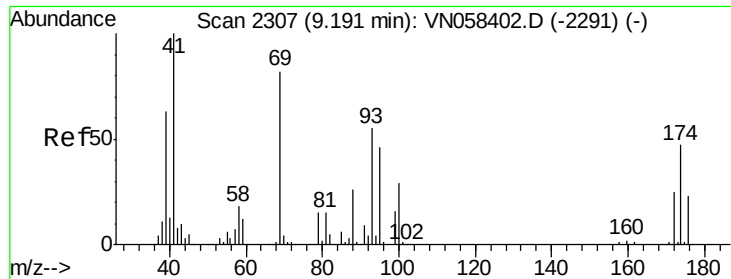
95 106.8 0.0 204.2



Abundance Ion 129.80 (129.50 to 130.50): VN058430.D (-2192) (-)

Ion 94.90 (94.60 to 95.60): VN058430.D (-2192) (-)

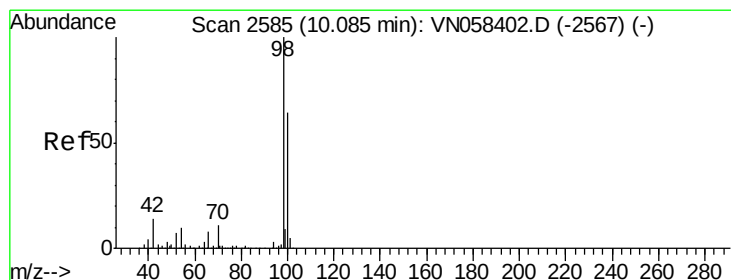
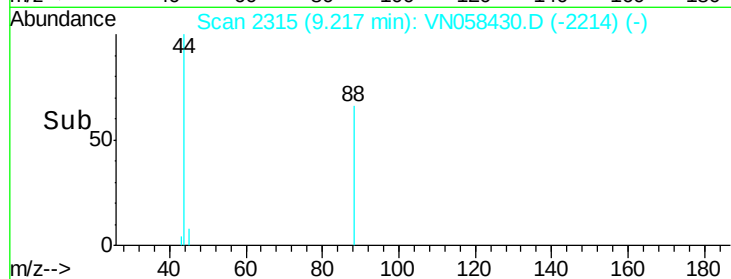
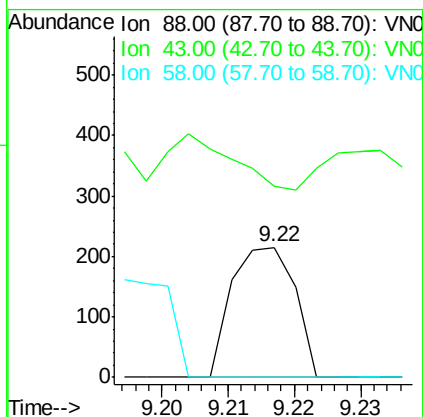
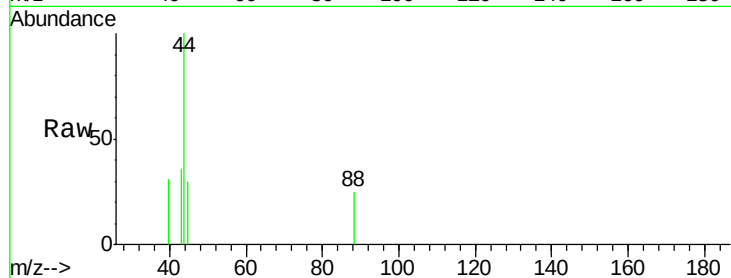




#49
1,4-Dioxane
Concen: 2.100 ug/l
RT: 9.22 min Scan# 2315
Delta R.T. 0.03 min
Lab File: VN058430.D
Acq: 30 Sep 2019 13:21

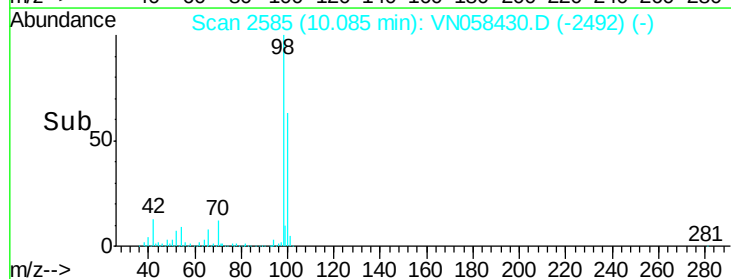
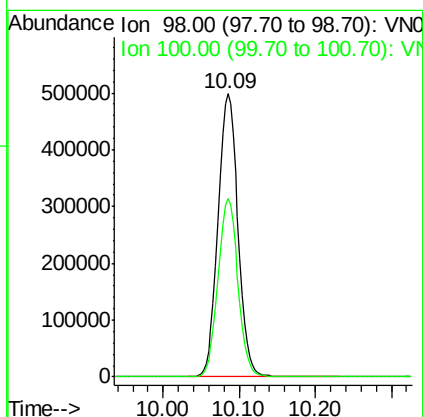
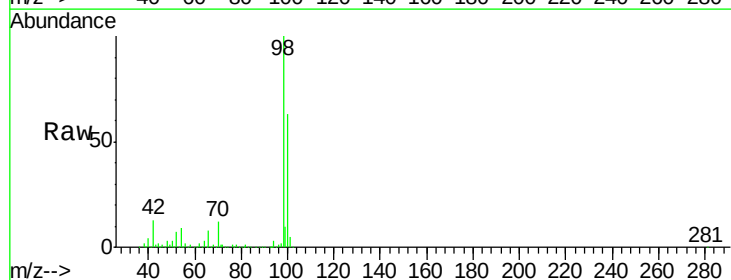
Instrument :
MSVOA_N
ClientSampleId :
SA-MW184I-20190924

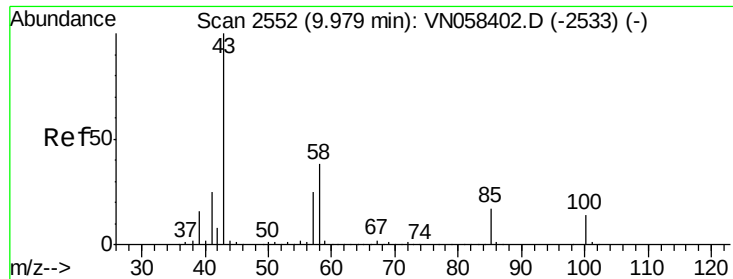
Tot Ion: 88 Resp: 142
Ion Ratio Lower Upper
88 100
43 83.8 31.1 46.7#
58 0.0 58.1 87.1#



#50
Toluene-d8
Concen: 51.848 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN058430.D
Acq: 30 Sep 2019 13:21

Tgt Ion: 98 Resp: 907080
Ion Ratio Lower Upper
98 100
100 62.7 51.0 76.6





#51

4-Methyl-2-Pentanone

Concen: 0.206 ug/l

RT: 9.92 min Scan# 2535

Delta R.T. -0.05 min

Lab File: VN058430.D

Acq: 30 Sep 2019 13:21

Instrument :

MSVOA_N

ClientSampleId :

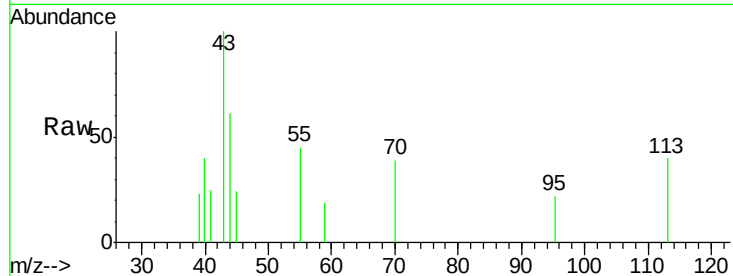
SA-MW184I-20190924

Tot Ion: 43 Resp: 1173

Ion Ratio Lower Upper

43 100

58 0.0 30.2 45.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.92

800

600

400

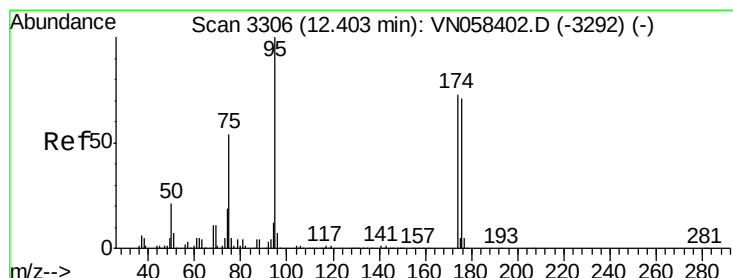
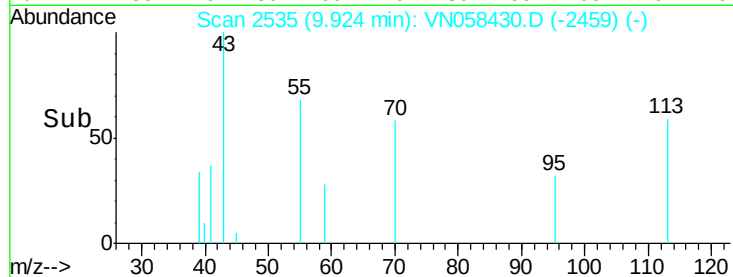
200

0

9.90

9.95

Time-->



#62

4-Bromofluorobenzene

Concen: 44.716 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058430.D

Acq: 30 Sep 2019 13:21

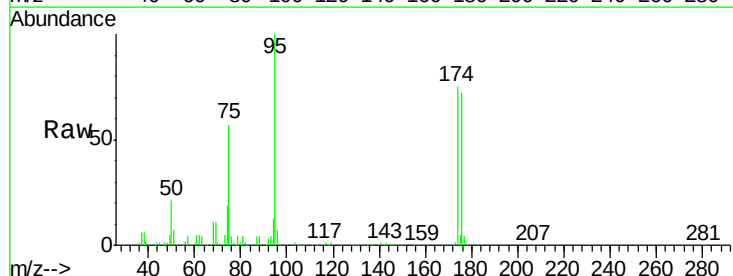
Tgt Ion: 95 Resp: 282867

Ion Ratio Lower Upper

95 100

174 76.6 0.0 150.6

176 72.8 0.0 146.2



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

200000

150000

100000

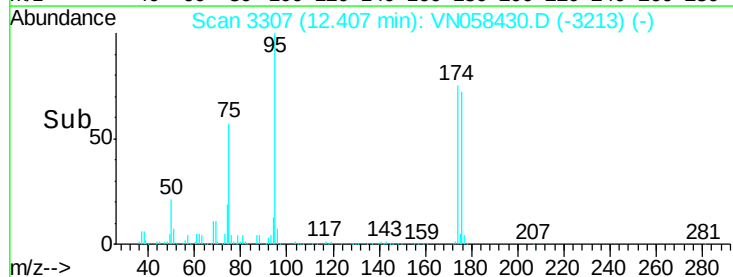
50000

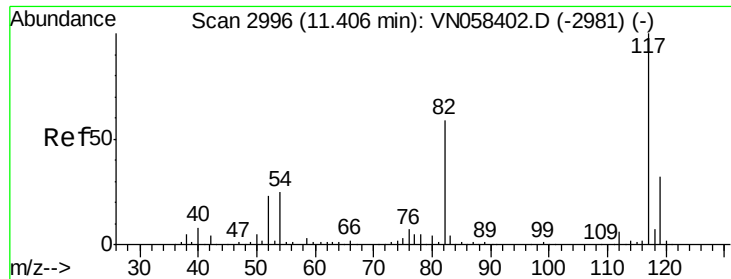
0

12.40

12.50

Time-->

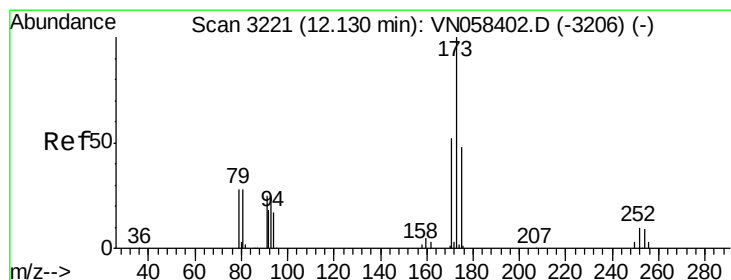
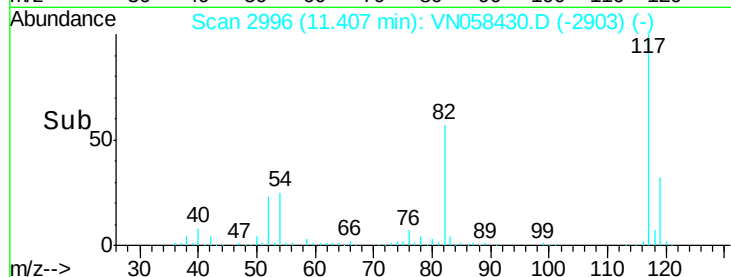
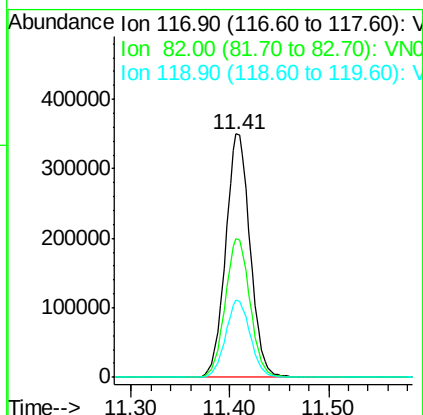
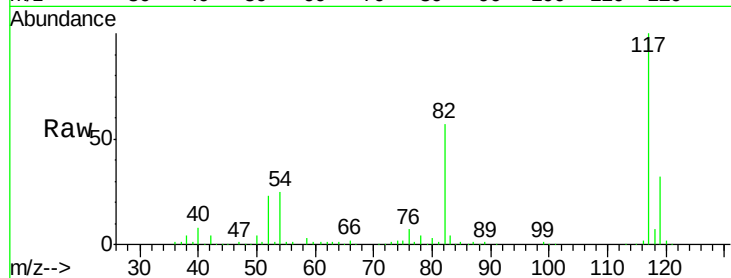




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058430.D
Acq: 30 Sep 2019 13:21

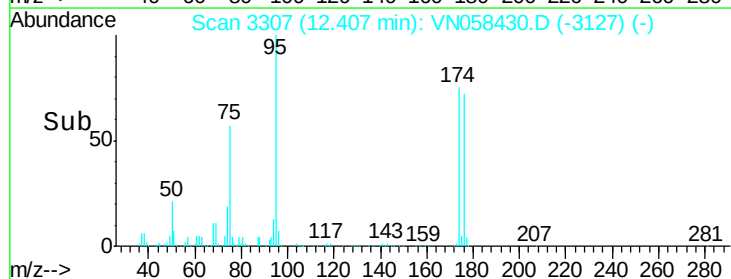
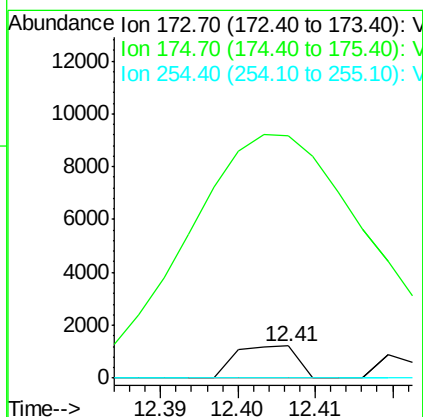
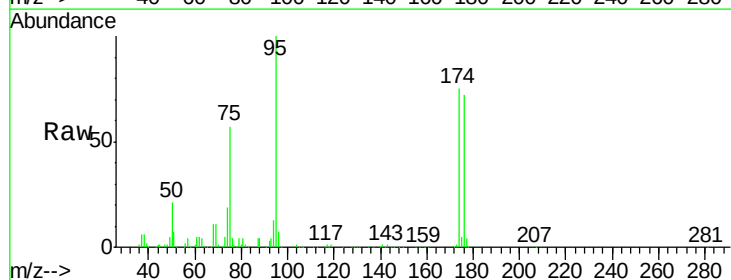
Instrument :
MSVOA_N
ClientSampleId :
SA-MW184I-20190924

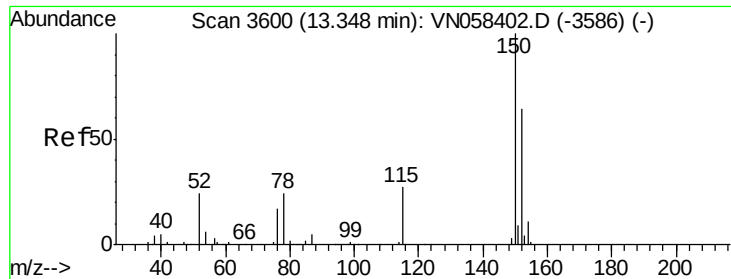
Tot Ion:117 Resp: 608691
Ion Ratio Lower Upper
117 100
82 57.0 47.4 71.0
119 31.6 25.5 38.3



#71
Bromoform
Concen: 0.930 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.28 min
Lab File: VN058430.D
Acq: 30 Sep 2019 13:21

Tgt Ion:173 Resp: 673
Ion Ratio Lower Upper
173 100
175 1977.0 24.3 73.0#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058430.D

Acq: 30 Sep 2019 13:21

Instrument :

MSVOA_N

ClientSampleId :

SA-MW184I-20190924

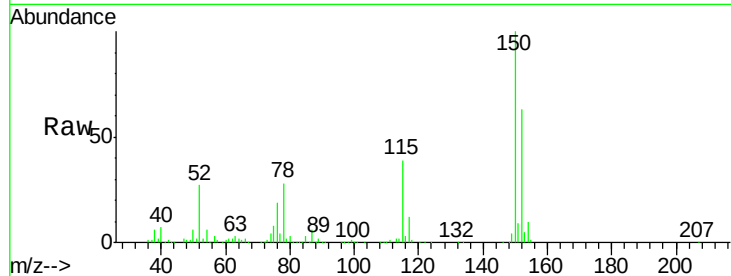
Tot Ion:152 Resp: 238220

Ion Ratio Lower Upper

152 100

115 60.9 30.0 90.0

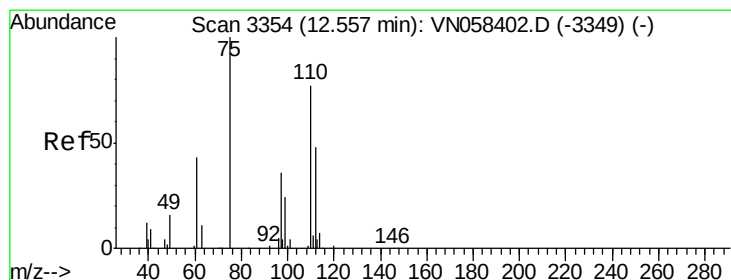
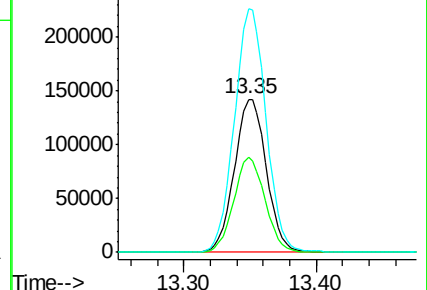
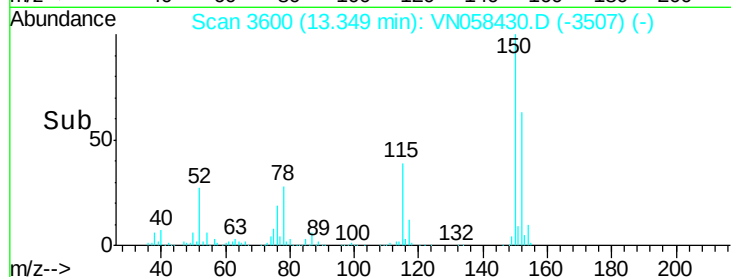
150 157.5 0.0 348.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 36.612 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058430.D

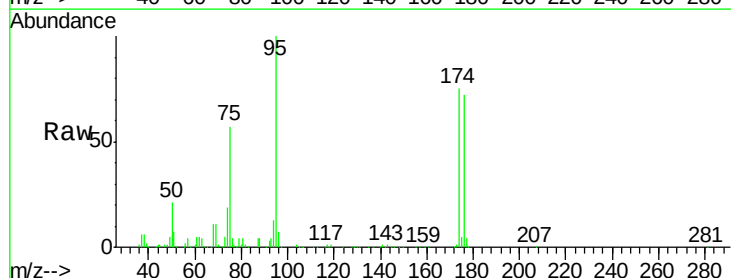
Acq: 30 Sep 2019 13:21

Tgt Ion: 75 Resp: 159301

Ion Ratio Lower Upper

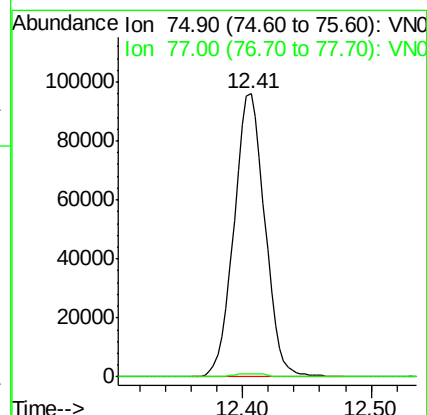
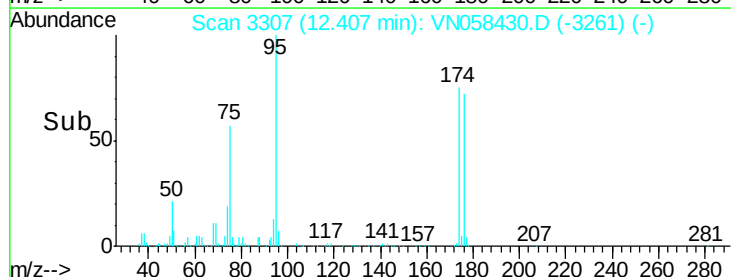
75 100

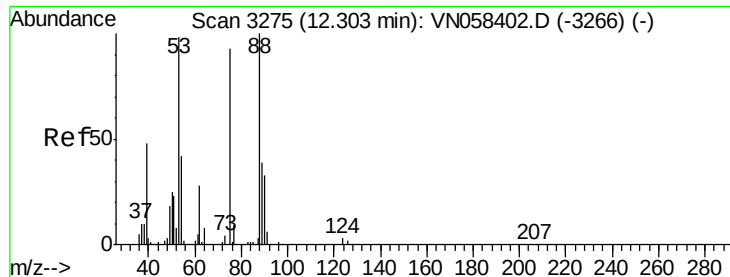
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 111.194 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058430.D

Acq: 30 Sep 2019 13:21

Instrument :

MSVOA_N

ClientSampleId :

SA-MW184I-20190924

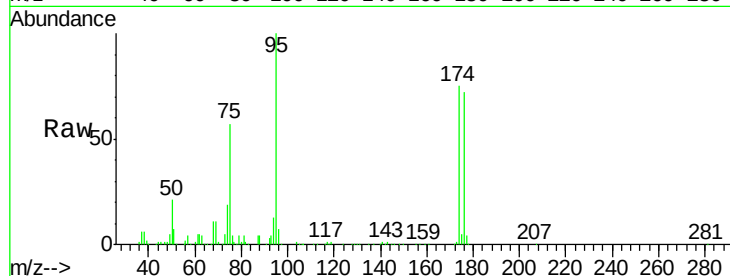
Tot Ion: 75 Resp: 159301

Ion Ratio Lower Upper

75 100

53 0.0 85.4 128.0#

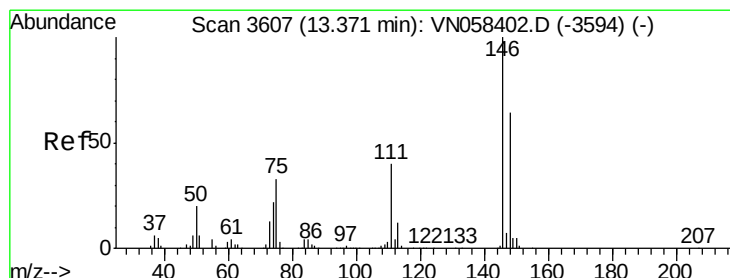
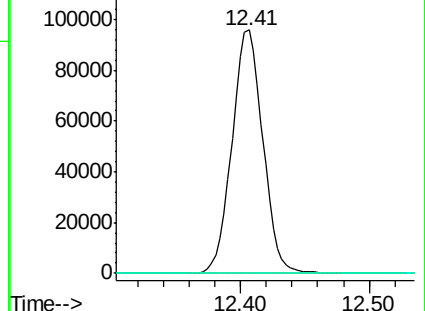
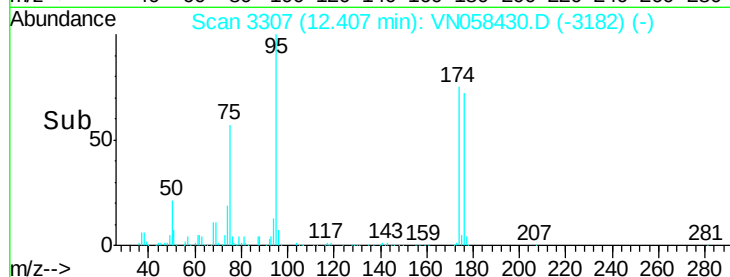
89 0.0 35.0 52.4#



Abundance Ion 74.90 (74.60 to 75.60): VN058430.D (-3182) (-)

Ion 53.00 (52.70 to 53.70): VN058430.D (-3182) (-)

Ion 88.90 (88.60 to 89.60): VN058430.D (-3182) (-)



#88

1,4-Dichlorobenzene

Concen: 0.261 ug/l

RT: 13.37 min Scan# 3606

Delta R.T. -0.00 min

Lab File: VN058430.D

Acq: 30 Sep 2019 13:21

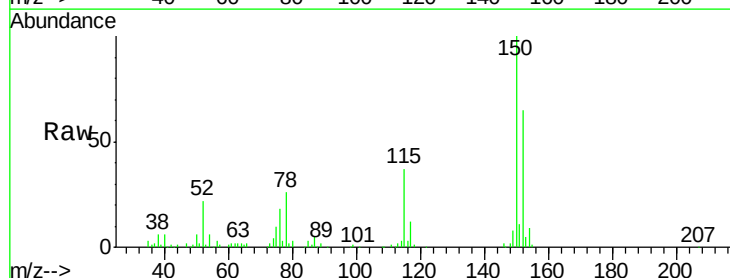
Tgt Ion: 146 Resp: 1946

Ion Ratio Lower Upper

146 100

111 223.6 20.5 61.6#

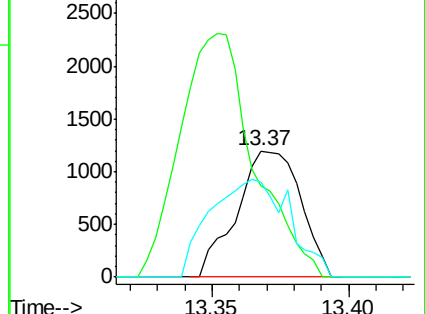
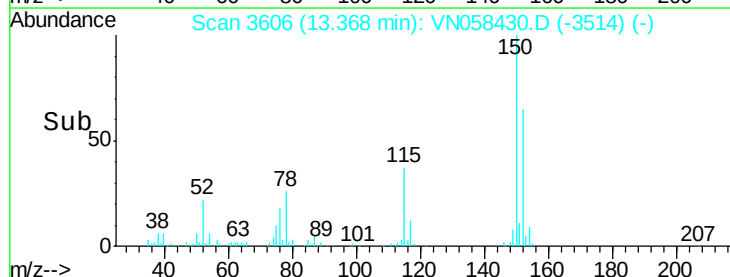
148 95.6 31.5 94.5#

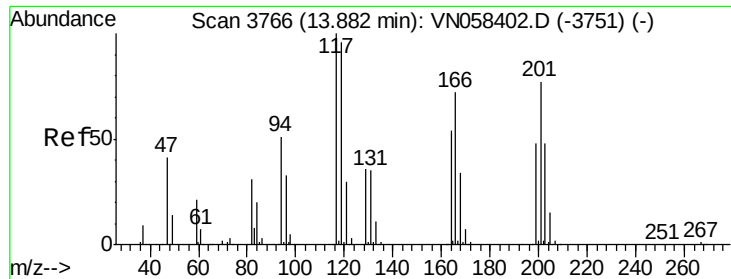


Abundance Ion 145.90 (145.60 to 146.60): VN058430.D (-3514) (-)

Ion 110.90 (110.60 to 111.60): VN058430.D (-3514) (-)

Ion 147.90 (147.60 to 148.60): VN058430.D (-3514) (-)





#90

Hexachloroethane

Concen: 0.735 ug/l

RT: 14.00 min Scan# 3803

Delta R.T. 0.12 min

Lab File: VN058430.D

Acq: 30 Sep 2019 13:21

Instrument :

MSVOA_N

ClientSampleId :

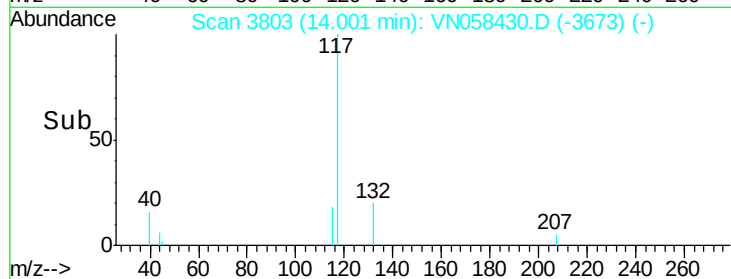
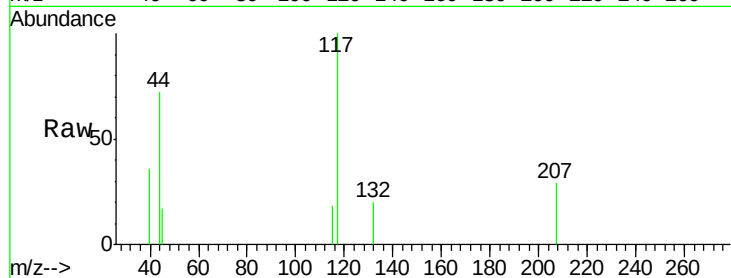
SA-MW184I-20190924

Tot Ion:117 Resp: 1592

Ion Ratio Lower Upper

117 100

201 0.0 38.6 116.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

