

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN093019\
 Data File : VN058443.D
 Acq On : 30 Sep 2019 18:08
 Operator : JC/SP
 Sample : K5080-20
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 01 01:34:02 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	418740	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	684143	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	570777	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	212981	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	303172	49.54	ug/l	0.00
Spiked Amount			Recovery	=	99.08%	
35) Dibromofluoromethane	7.58	113	212792	50.75	ug/l	0.00
Spiked Amount			Recovery	=	101.50%	
50) Toluene-d8	10.08	98	847855	51.62	ug/l	0.00
Spiked Amount			Recovery	=	103.24%	
62) 4-Bromofluorobenzene	12.41	95	258097	43.46	ug/l	0.00
Spiked Amount			Recovery	=	86.92%	

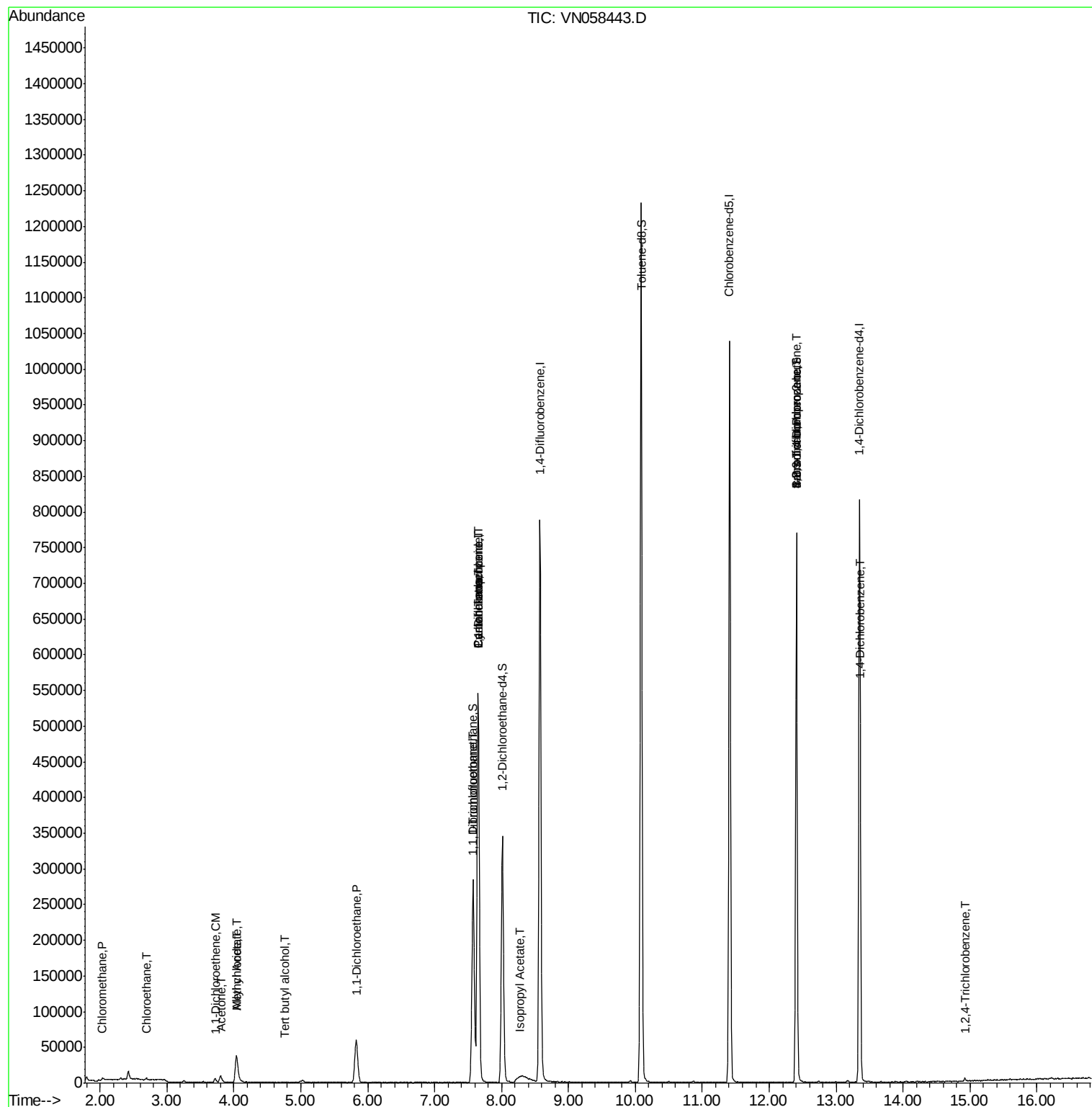
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	2147	0.425	ug/l	100
6) Chloroethane	2.69	64	2202	0.743	ug/l #	65
11) Tert butyl alcohol	4.76	59	449	0.660	ug/l #	71
12) 1,1-Dichloroethene	3.72	96	2616	0.662	ug/l	92
14) Allyl chloride	4.03	41	4925	0.685	ug/l #	70
16) Acetone	3.80	43	15453	7.408	ug/l	97
18) Methyl Acetate	4.04	43	17071	3.254	ug/l #	53
24) 1,1-Dichloroethane	5.83	63	90502	10.395	ug/l	98
31) Cyclohexane	7.65	56	10503	1.240	ug/l #	23
32) 1,1,1-Trichloroethane	7.56	97	4076	0.563	ug/l #	52
36) 1,1-Dichloropropene	7.65	75	35868	5.483	ug/l #	51
38) Carbon Tetrachloride	7.65	117	43717	7.404	ug/l #	16
43) Isopropyl Acetate	8.27	43	9565	0.917	ug/l #	63
71) Bromoform	12.40	173	512	0.886	ug/l #	29
76) 1,2,3-Trichloropropane	12.41	75	140641	36.153	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	140641	109.802	ug/l #	7
88) 1,4-Dichlorobenzene	13.37	146	2286	0.343	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.92	180	1358	0.382	ug/l #	52

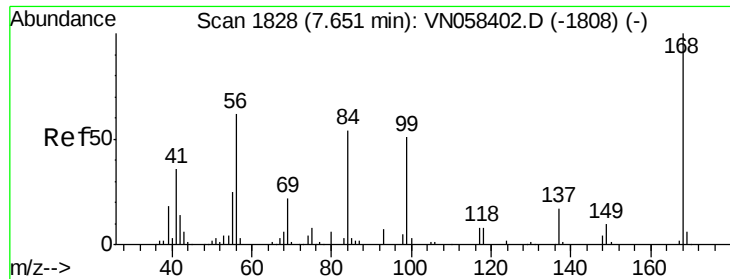
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Sep 30 08:07:38 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058443.D

Acq: 30 Sep 2019 18:08

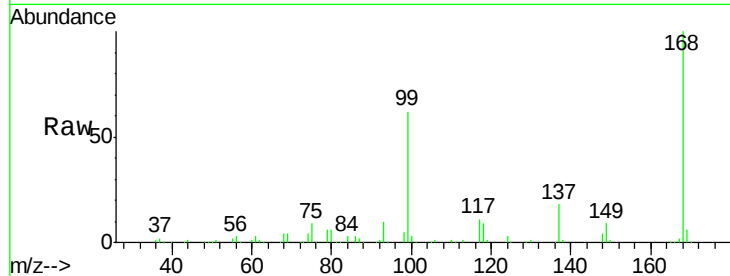
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 418740

Ion Ratio Lower Upper

168 100

99 61.9 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

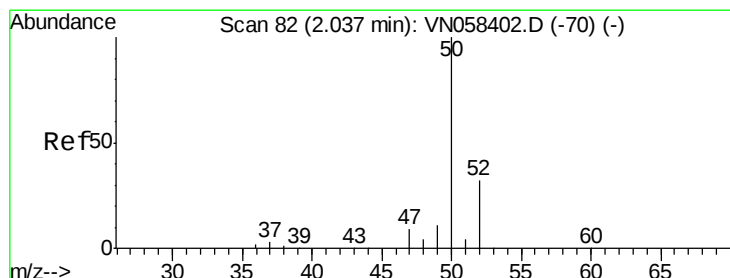
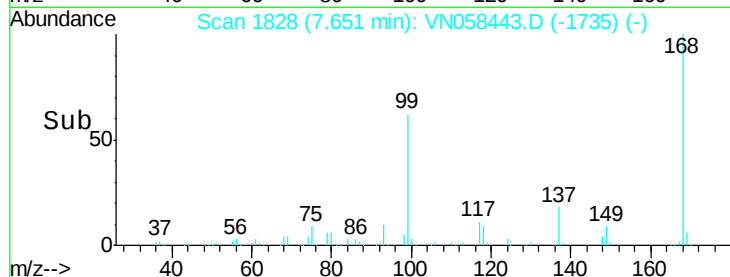
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.425 ug/l

RT: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN058443.D

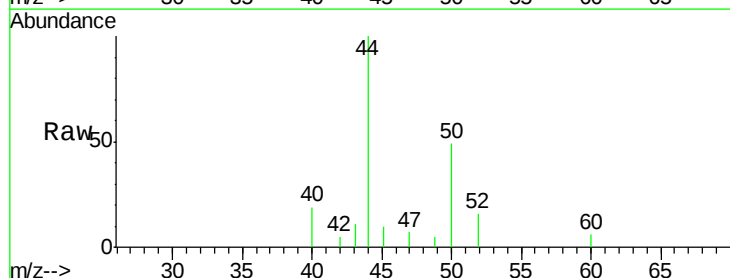
Acq: 30 Sep 2019 18:08

Tgt Ion: 50 Resp: 2147

Ion Ratio Lower Upper

50 100

52 32.4 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.03

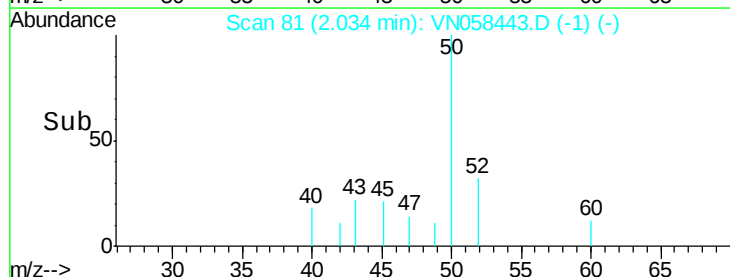
1500

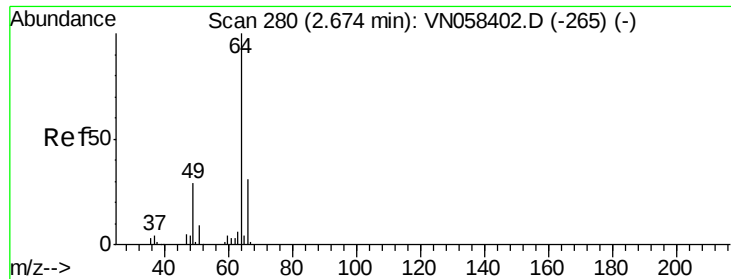
1000

500

0

Time-->





#6

Chloroethane

Concen: 0.743 ug/l

RT: 2.69 min Scan# 286

Delta R.T. 0.02 min

Lab File: VN058443.D

Acq: 30 Sep 2019 18:08

Instrument :

MSVOA_N

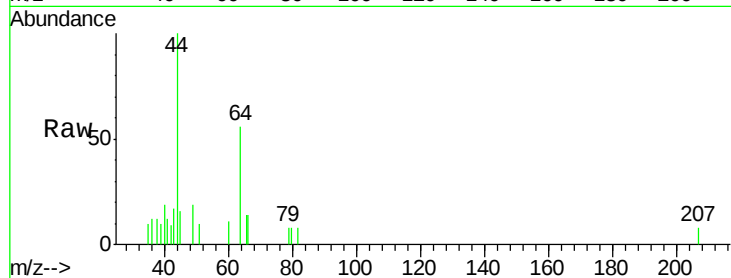
ClientSampled :

Tot Ion: 64 Resp: 2202

Ion Ratio Lower Upper

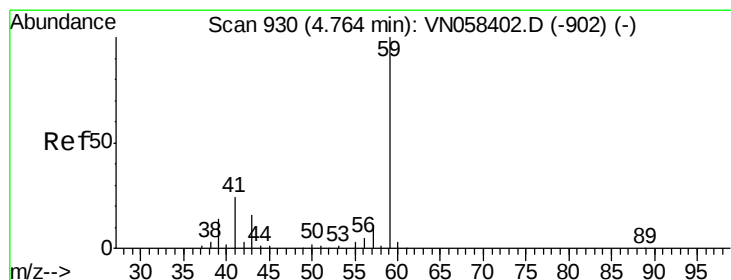
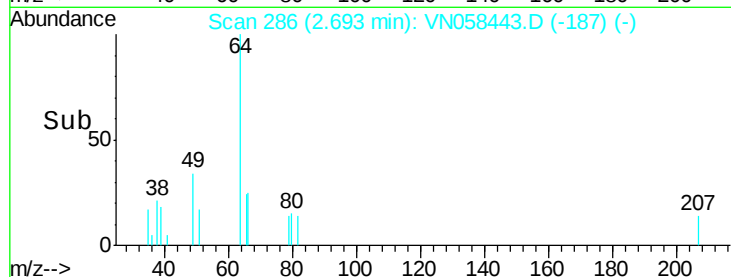
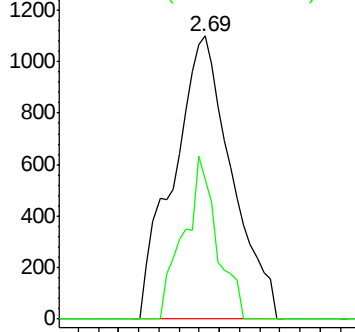
64 100

66 49.5 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: 0.660 ug/l

RT: 4.76 min Scan# 929

Delta R.T. -0.00 min

Lab File: VN058443.D

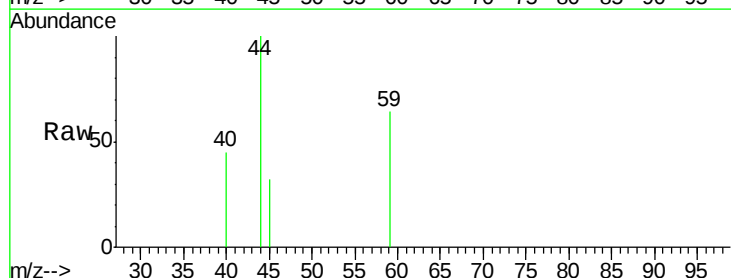
Acq: 30 Sep 2019 18:08

Tgt Ion: 59 Resp: 449

Ion Ratio Lower Upper

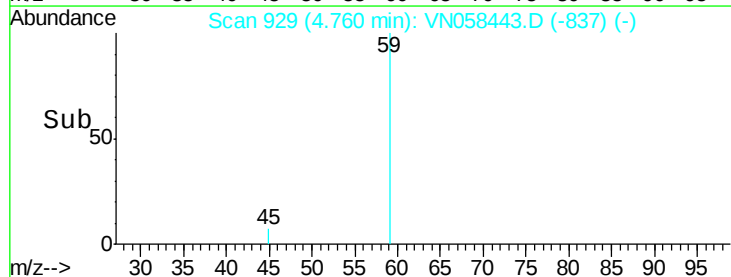
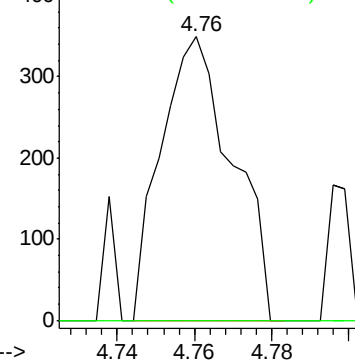
59 100

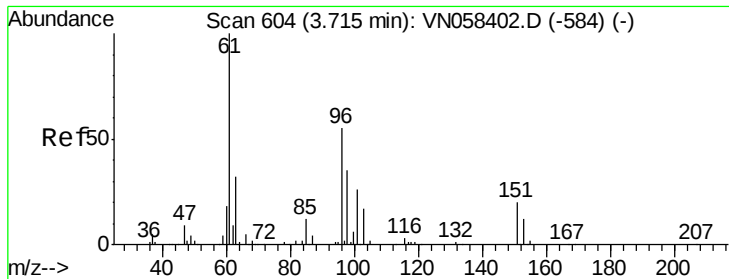
57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#12

1,1-Dichloroethene

Concen: 0.662 ug/l

RT: 3.72 min Scan# 606

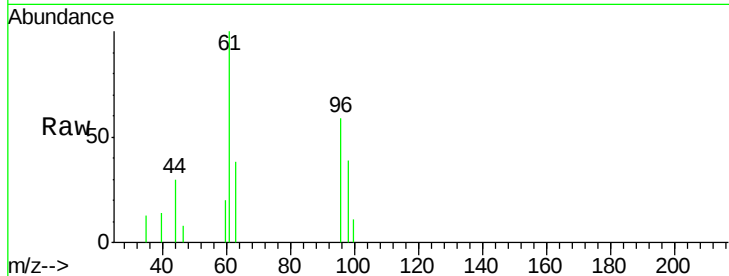
Delta R.T. 0.01 min

Lab File: VN058443.D

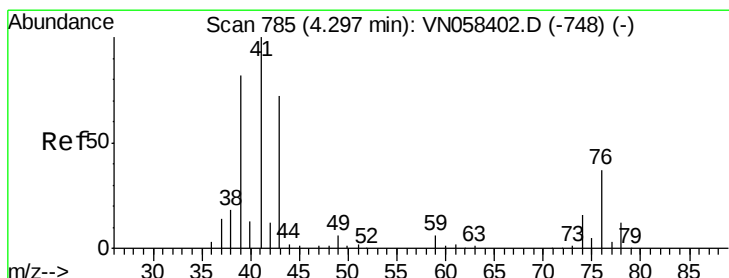
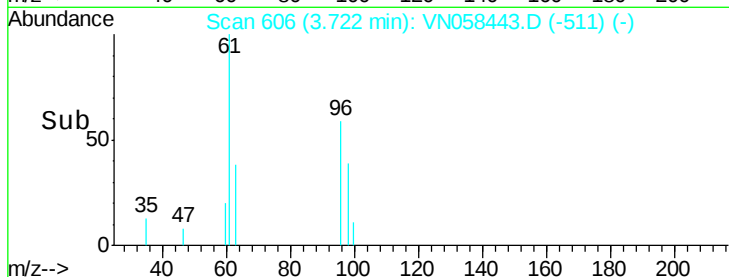
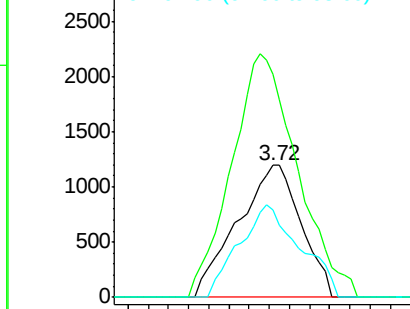
Acq: 30 Sep 2019 18:08

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	96	Resp:	2616
Ion	Ratio	Lower	Upper
96	100		
61	168.9	146.7	220.1
98	66.2	51.3	76.9



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



#14

Allyl chloride

Concen: 0.685 ug/l

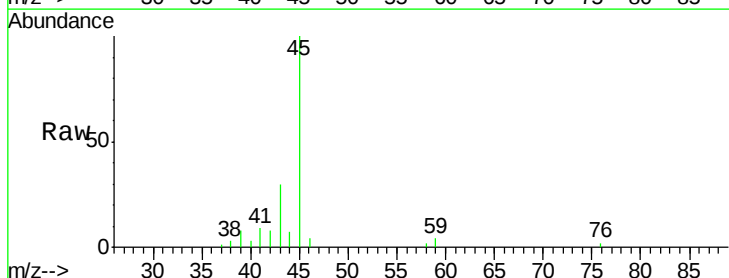
RT: 4.03 min Scan# 703

Delta R.T. -0.26 min

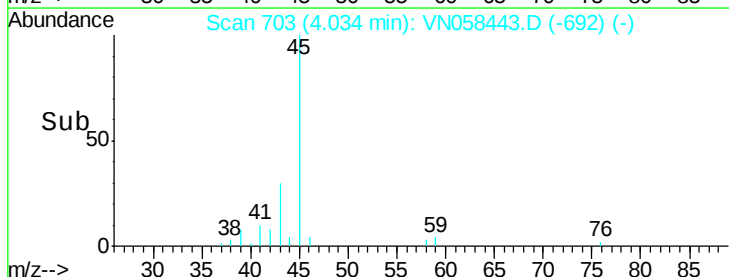
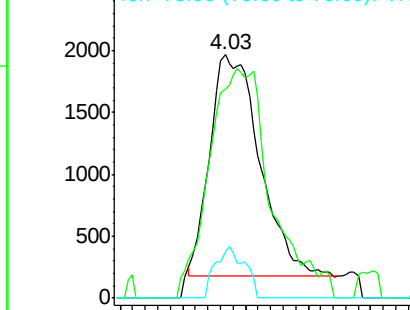
Lab File: VN058443.D

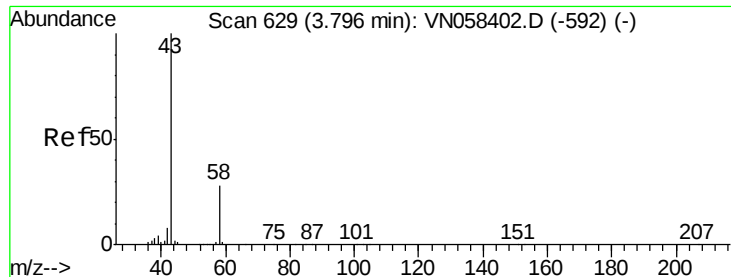
Acq: 30 Sep 2019 18:08

Tgt Ion:	41	Resp:	4925
Ion	Ratio	Lower	Upper
41	100		
39	102.0	62.3	93.5#
76	13.5	26.9	40.3#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 75.90 (75.60 to 76.60): VNO

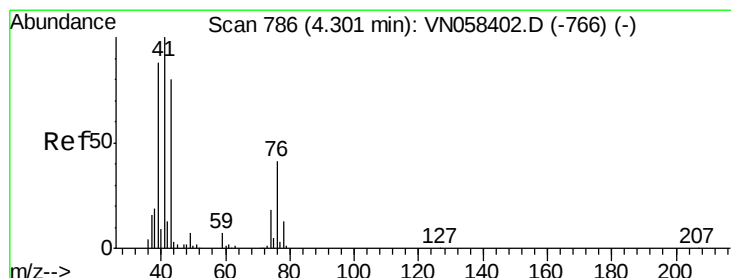
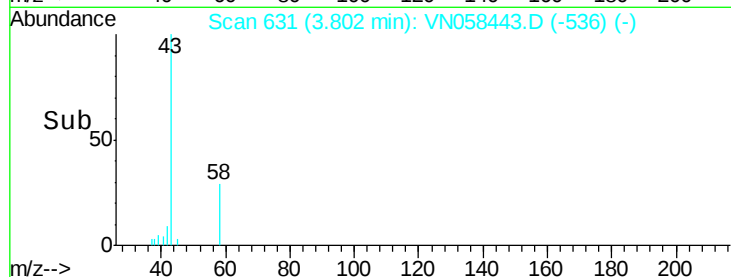
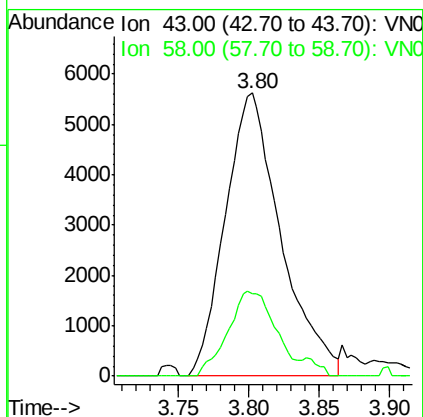
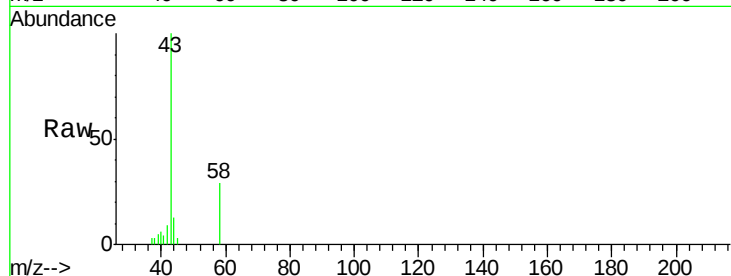




#16
Acetone
Concen: 7.408 ug/l
RT: 3.80 min Scan# 631
Delta R.T. 0.01 min
Lab File: VN058443.D
Acq: 30 Sep 2019 18:08

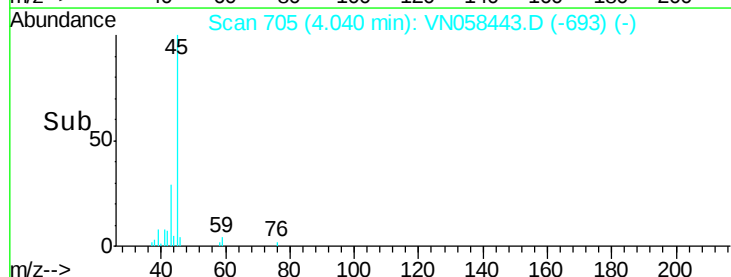
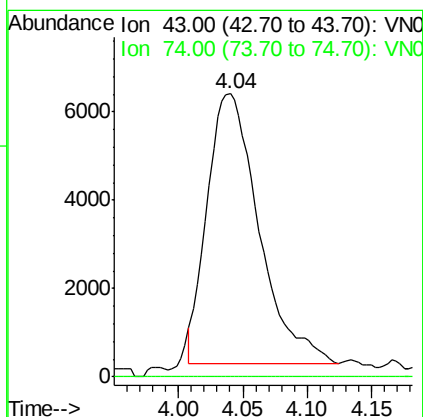
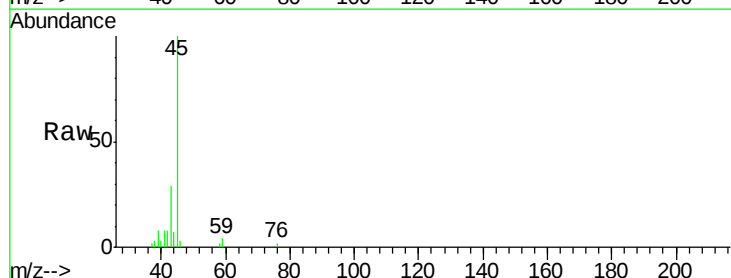
Instrument :
MSVOA_N
ClientSampled :

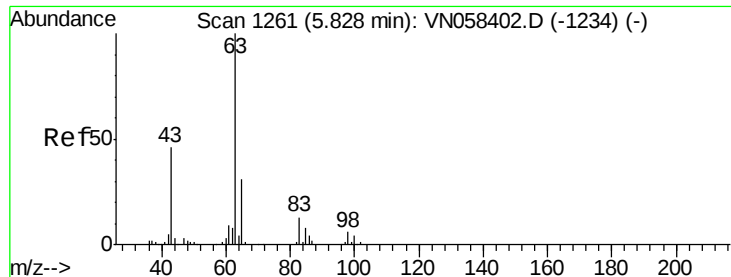
Tot Ion: 43 Resp: 15453
Ion Ratio Lower Upper
43 100
58 29.3 22.4 33.6



#18
Methyl Acetate
Concen: 3.254 ug/l
RT: 4.04 min Scan# 705
Delta R.T. -0.26 min
Lab File: VN058443.D
Acq: 30 Sep 2019 18:08

Tgt Ion: 43 Resp: 17071
Ion Ratio Lower Upper
43 100
74 0.0 18.0 27.0#





#24

1,1-Dichloroethane

Concen: 10.395 ug/l

RT: 5.83 min Scan# 1262

Delta R.T. 0.00 min

Lab File: VN058443.D

Acq: 30 Sep 2019 18:08

Instrument :

MSVOA_N

ClientSampleId :

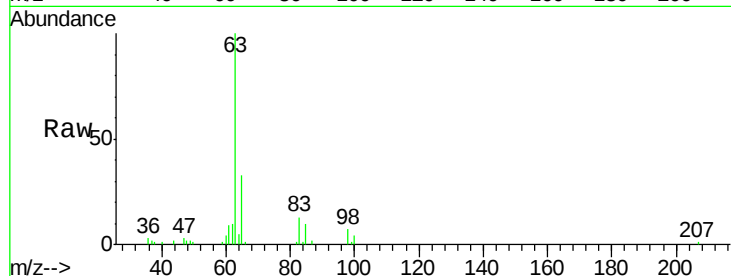
Tot Ion: 63 Resp: 90502

Ion Ratio Lower Upper

63 100

98 6.6 3.0 9.0

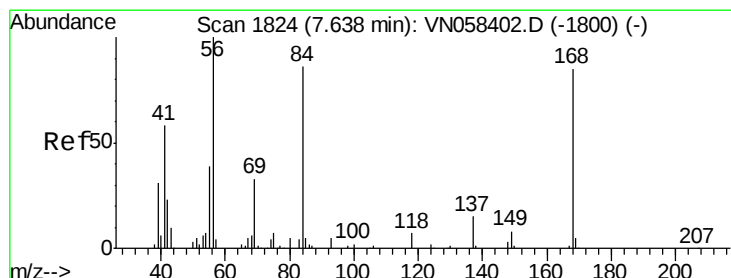
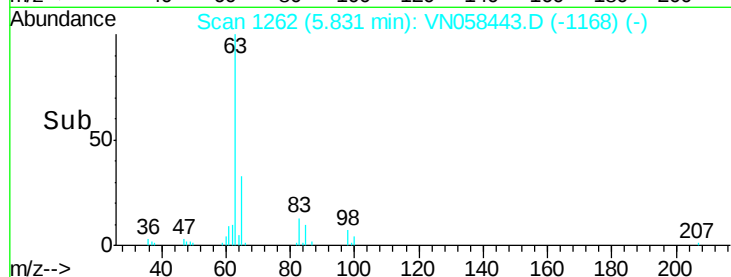
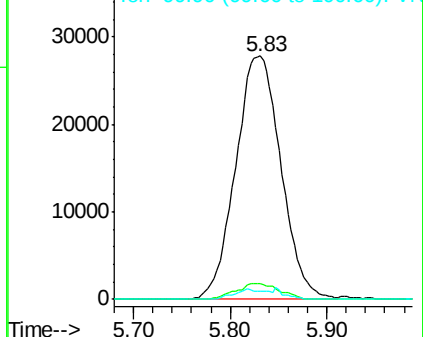
100 3.6 2.0 5.8



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0



#31

Cyclohexane

Concen: 1.240 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN058443.D

Acq: 30 Sep 2019 18:08

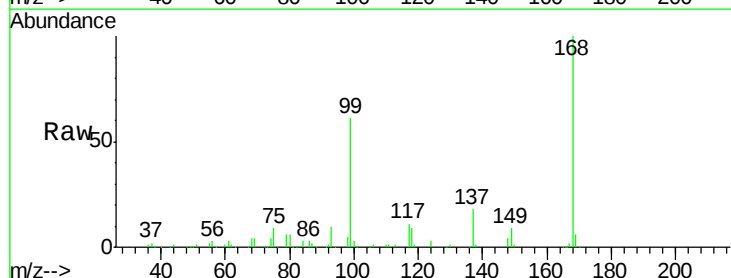
Tgt Ion: 56 Resp: 10503

Ion Ratio Lower Upper

56 100

69 145.4 26.2 39.4#

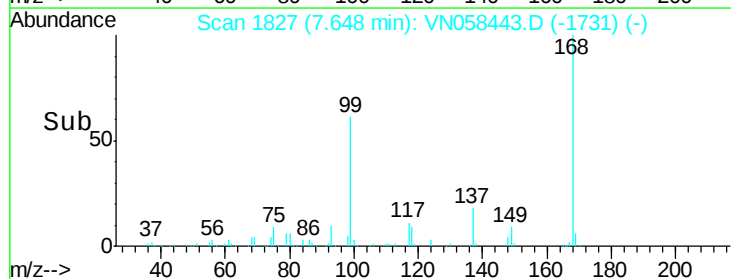
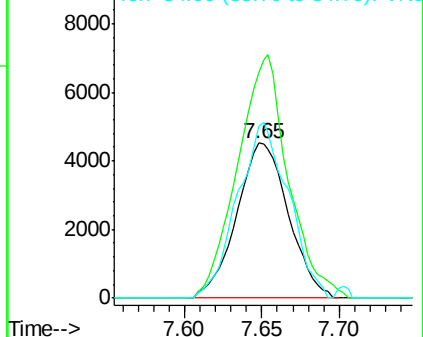
84 110.7 67.6 101.4#

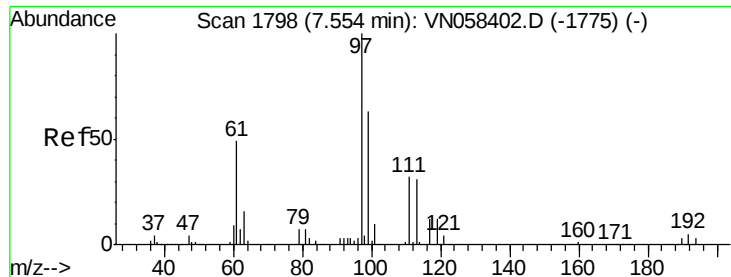


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#32

1,1,1-Trichloroethane

Concen: 0.563 ug/l

RT: 7.56 min Scan# 1799

Delta R.T. 0.00 min

Lab File: VN058443.D

Acq: 30 Sep 2019 18:08

Instrument :

MSVOA_N

ClientSampled :

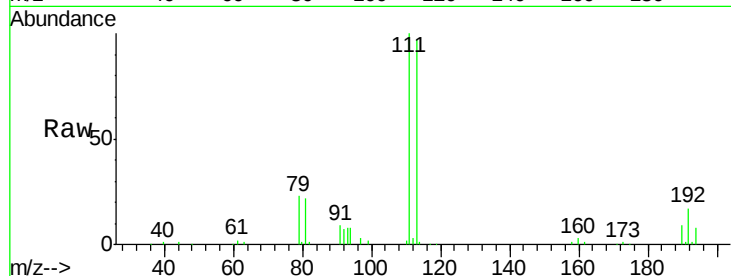
Tot Ion: 97 Resp: 4076

Ion Ratio Lower Upper

97 100

99 0.0 51.1 76.7#

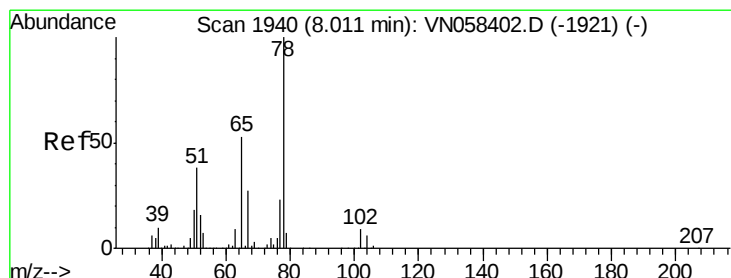
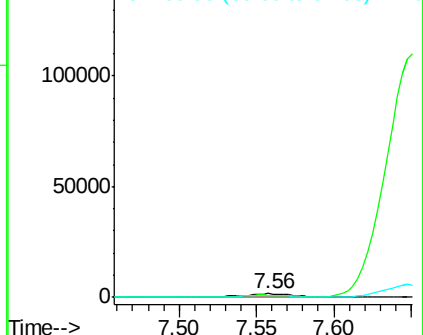
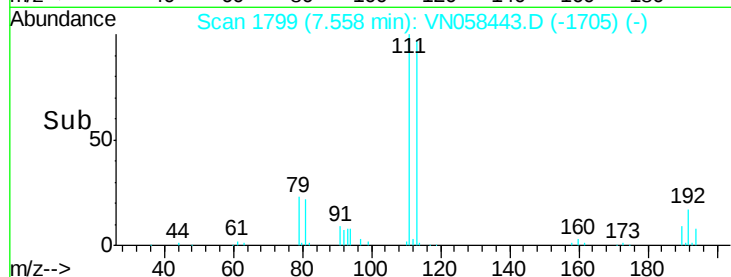
61 46.4 39.2 58.8



Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

Ion 60.90 (60.60 to 61.60): VN0



#33

1,2-Dichloroethane-d4

Concen: 49.544 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058443.D

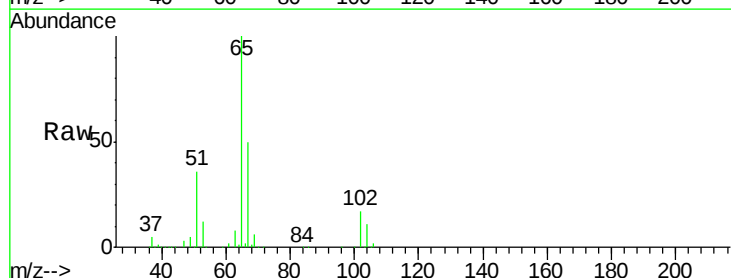
Acq: 30 Sep 2019 18:08

Tgt Ion: 65 Resp: 303172

Ion Ratio Lower Upper

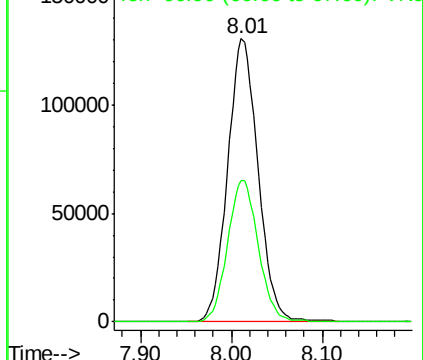
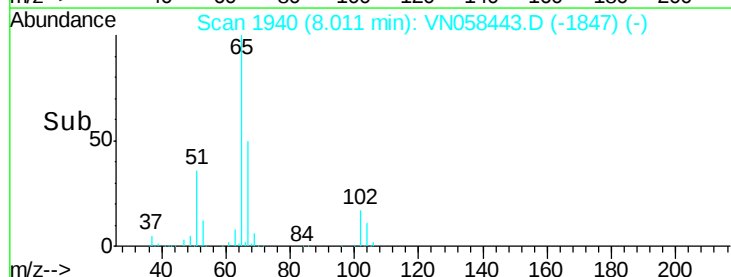
65 100

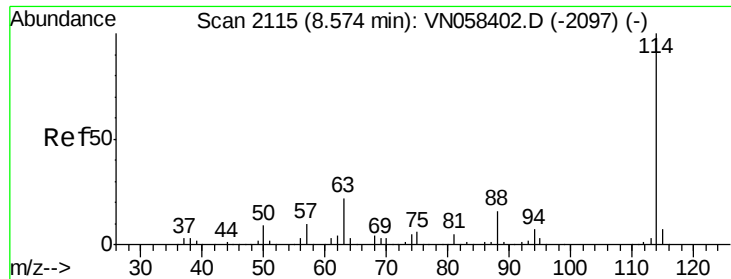
67 50.6 0.0 102.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

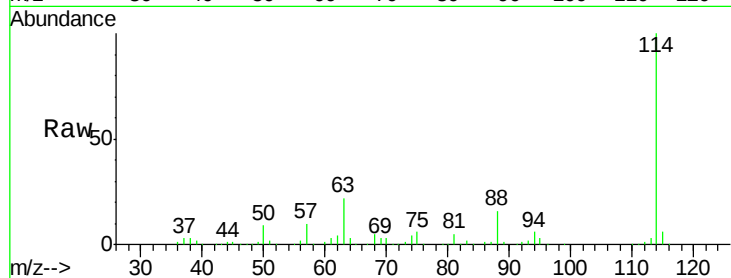




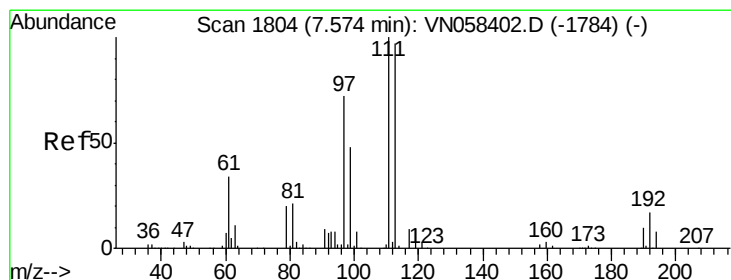
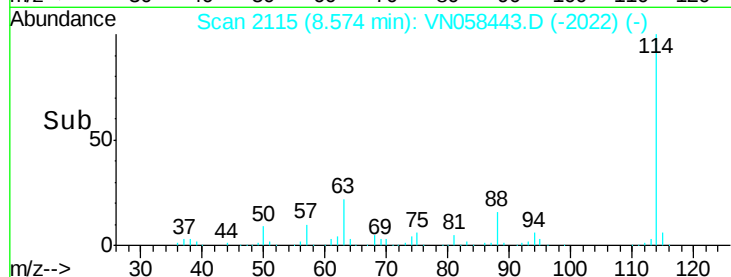
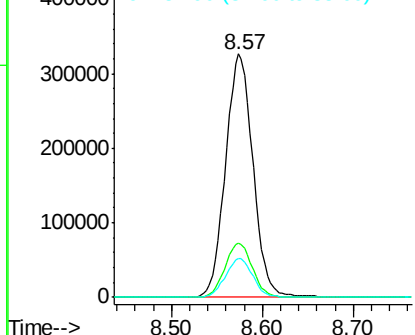
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058443.D
 Acq: 30 Sep 2019 18:08

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 684143
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 45.0
 88 16.1 0.0 32.2

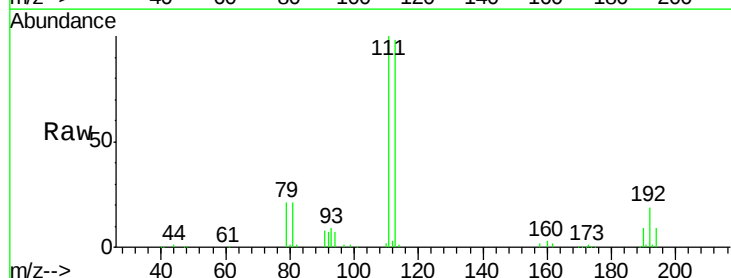


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

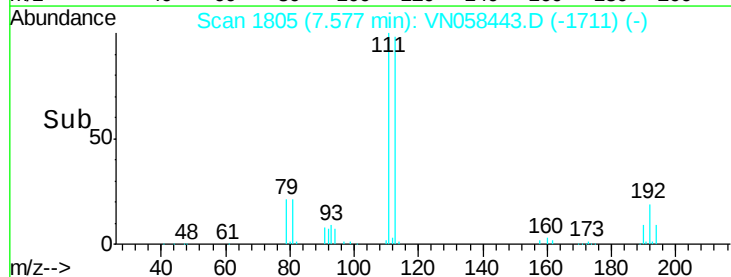
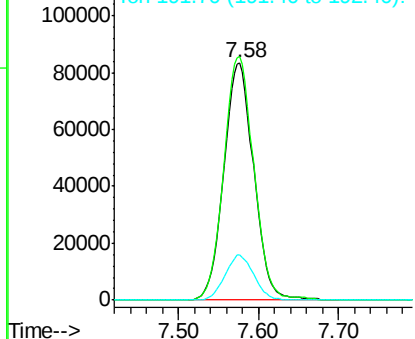


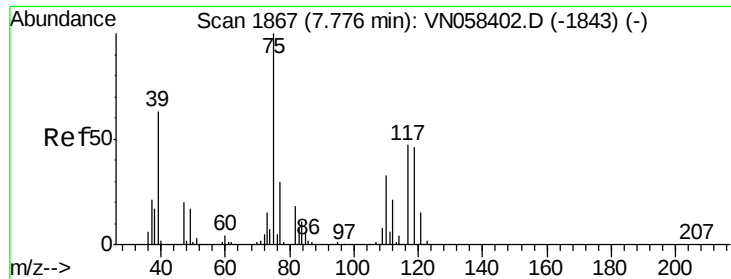
#35
 Dibromofluoromethane
 Concen: 50.749 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058443.D
 Acq: 30 Sep 2019 18:08

Tgt Ion:113 Resp: 212792
 Ion Ratio Lower Upper
 113 100
 111 103.0 83.4 125.2
 192 18.3 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

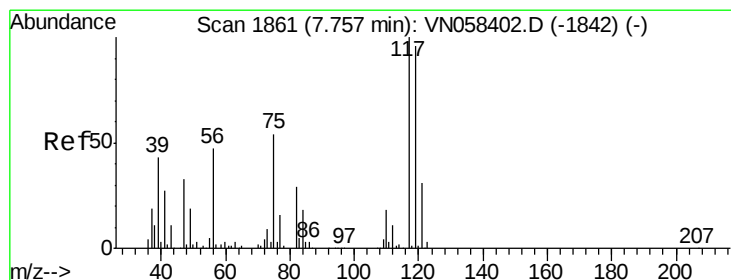
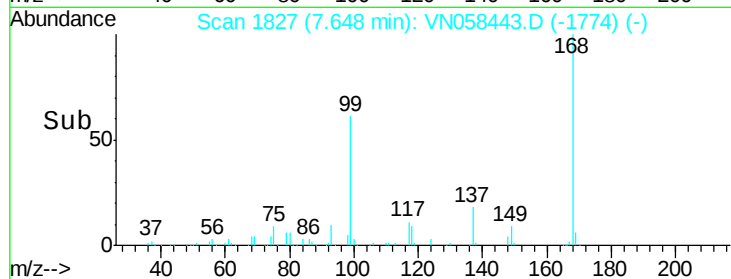
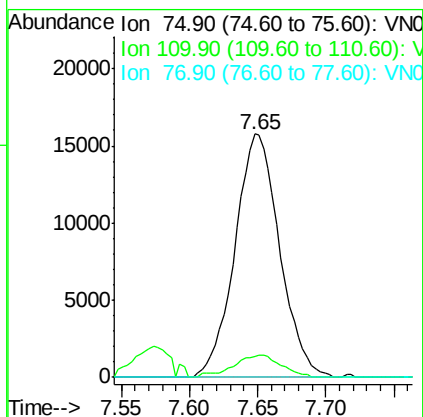
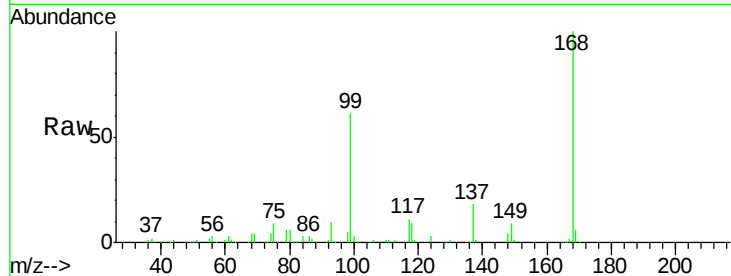




#36
 1,1-Dichloropropene
 Concen: 5.483 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058443.D
 Acq: 30 Sep 2019 18:08

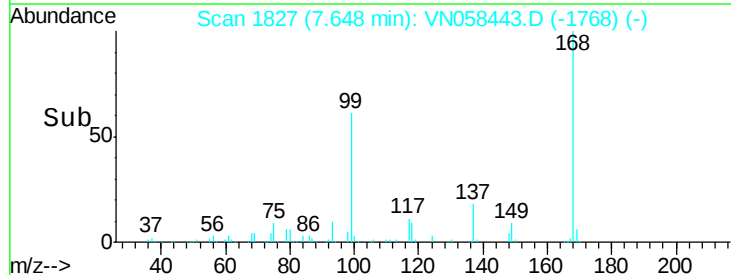
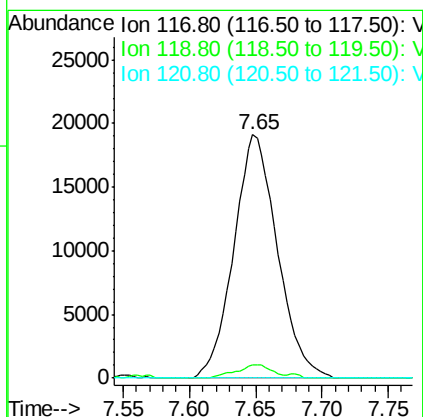
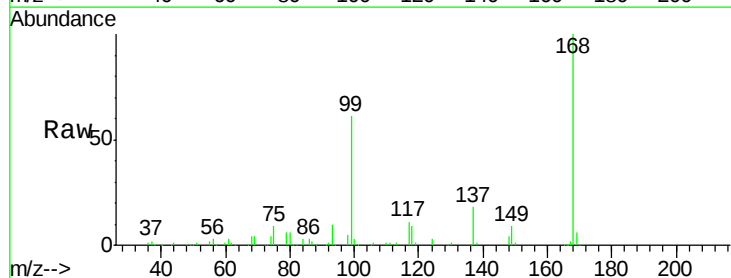
Instrument :
 MSVOA_N
 ClientSampleId :

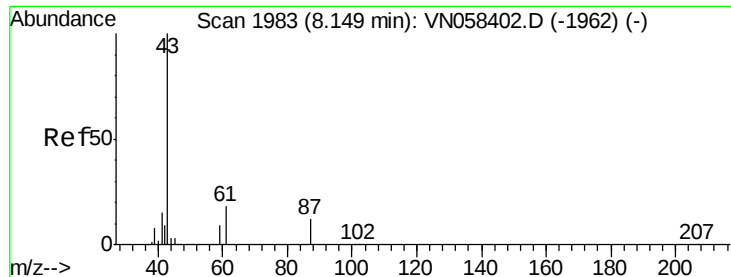
Tot Ion	75	Resp	35868
Ion Ratio	Lower	Upper	
75	100		
110	9.3	16.4	49.2#
77	0.0	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 7.404 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.11 min
 Lab File: VN058443.D
 Acq: 30 Sep 2019 18:08

Tgt Ion	117	Resp	43717
Ion Ratio <td>Lower</td> <td>Upper</td> <td></td>	Lower	Upper	
117	100		
119	5.4	76.6	115.0#
121	0.0	24.7	37.1#





#43

Isopropyl Acetate

Concen: 0.917 ug/l

RT: 8.27 min Scan# 2019

Delta R.T. 0.12 min

Lab File: VN058443.D

Acq: 30 Sep 2019 18:08

Instrument :

MSVOA_N

ClientSampleId :

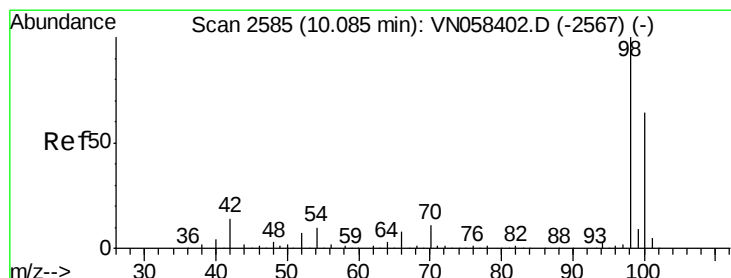
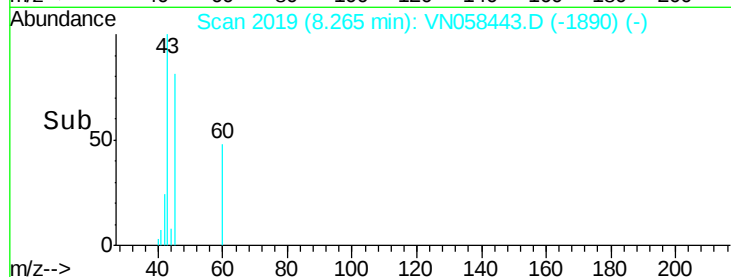
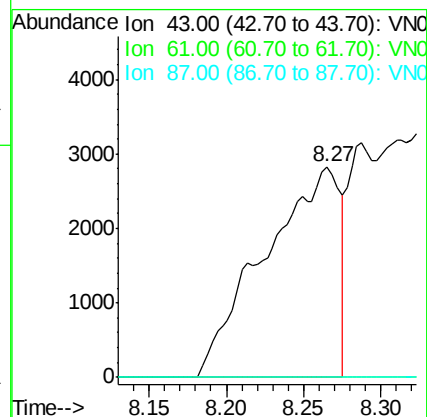
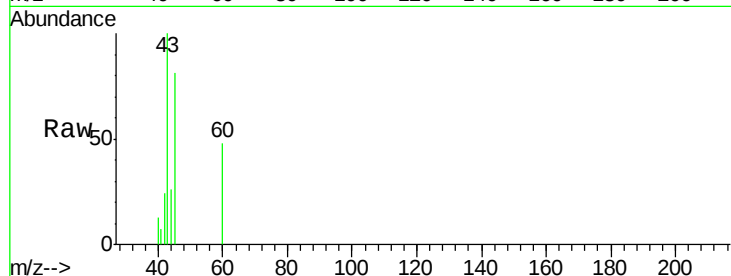
Tot Ion: 43 Resp: 9565

Ion Ratio Lower Upper

43 100

61 0.0 14.8 22.2#

87 0.0 9.7 14.5#



#50

Toluene-d8

Concen: 51.617 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058443.D

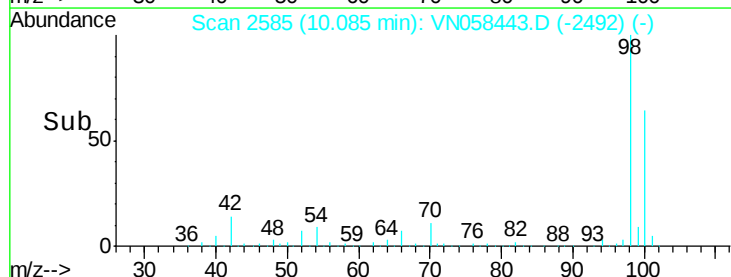
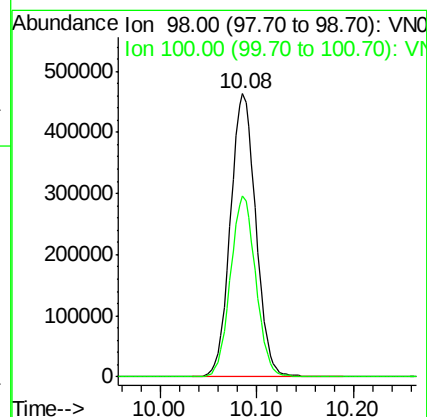
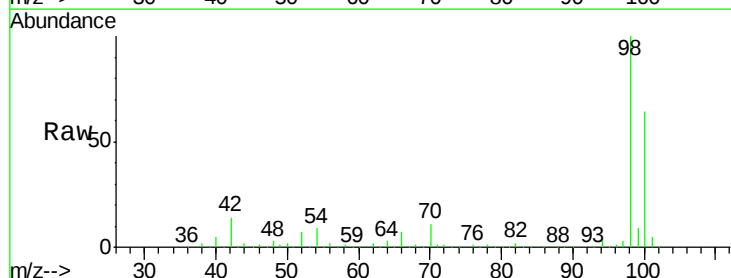
Acq: 30 Sep 2019 18:08

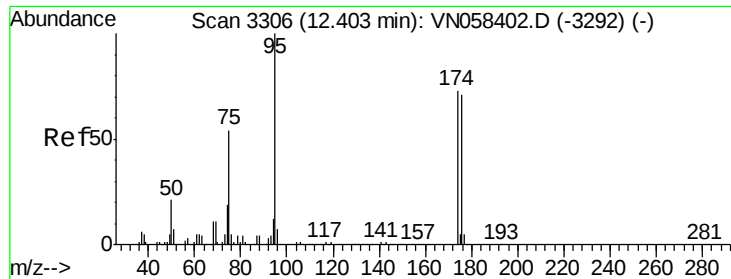
Tgt Ion: 98 Resp: 847855

Ion Ratio Lower Upper

98 100

100 63.6 51.0 76.6

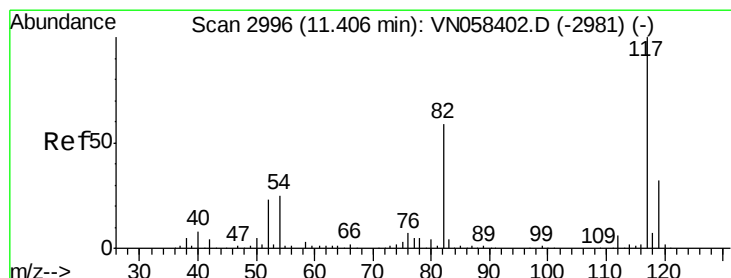
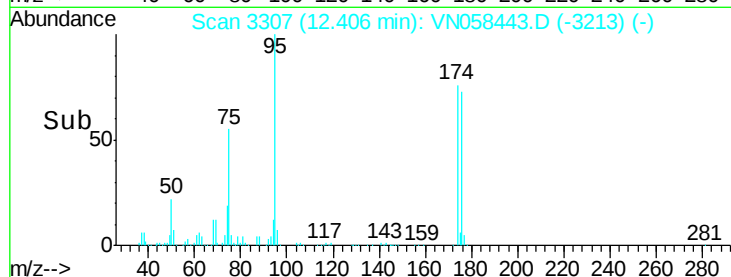
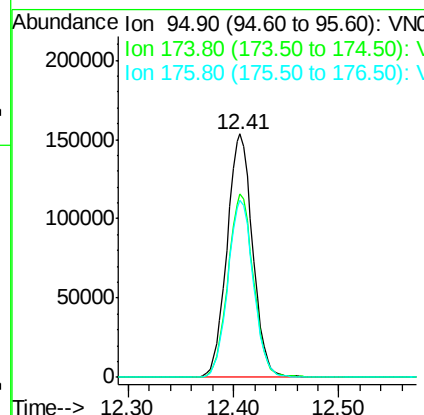
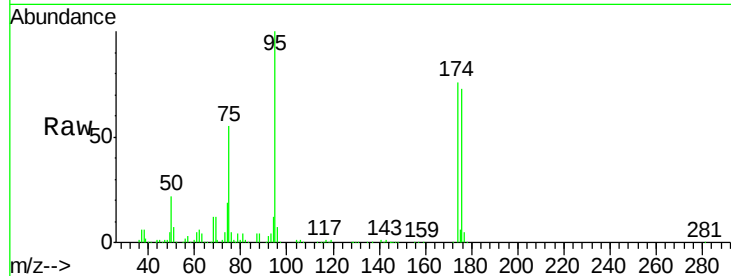




#62
4-Bromofluorobenzene
Concen: 43.456 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058443.D
Acq: 30 Sep 2019 18:08

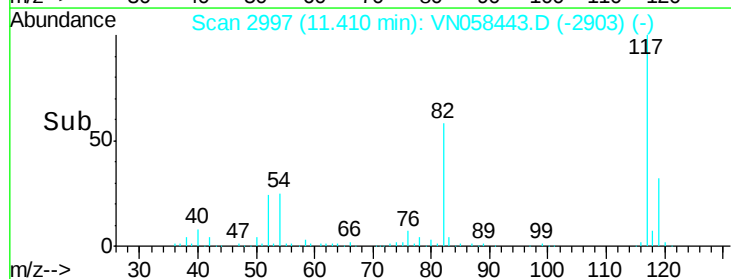
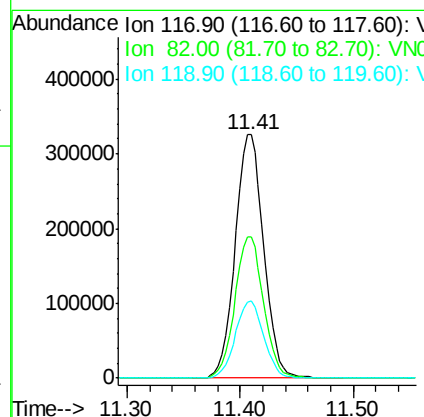
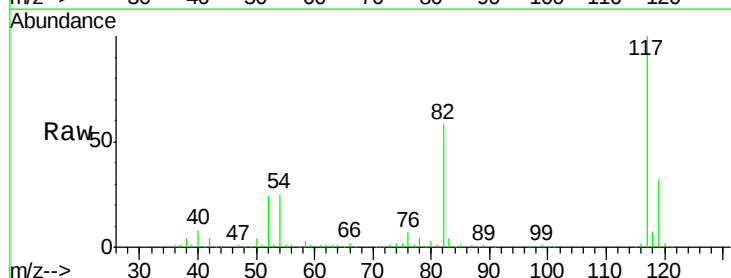
Instrument :
MSVOA_N
ClientSampleId :

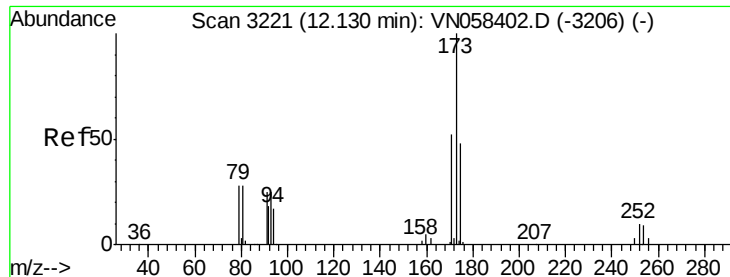
Tot Ion	95	Resp	258097
Ion	Ratio	Lower	Upper
95	100		
174	75.2	0.0	150.6
176	72.5	0.0	146.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN058443.D
Acq: 30 Sep 2019 18:08

Tgt Ion	117	Resp	570777
Ion	Ratio	Lower	Upper
117	100		
82	58.2	47.4	71.0
119	31.5	25.5	38.3





#71

Bromoform

Concen: 0.886 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN058443.D

Acq: 30 Sep 2019 18:08

Instrument :

MSVOA_N

ClientSampleId :

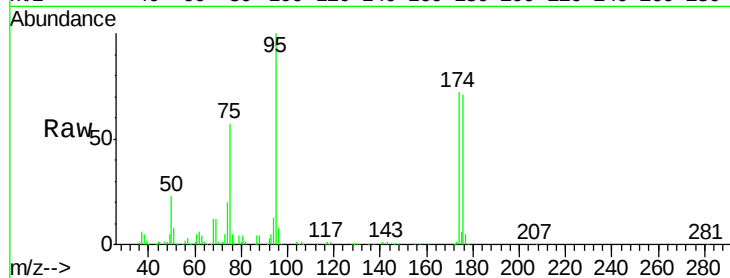
Tot Ion:173 Resp: 512

Ion Ratio Lower Upper

173 100

175 0.0 24.3 73.0#

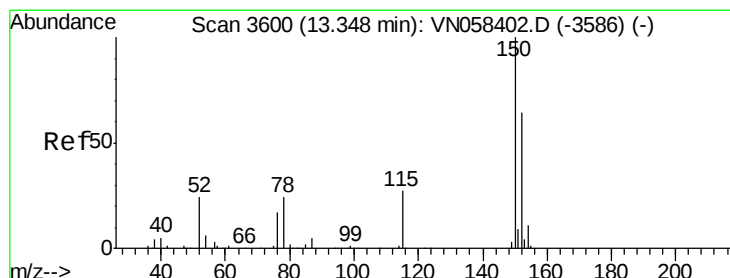
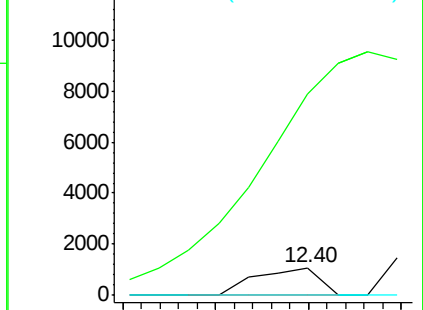
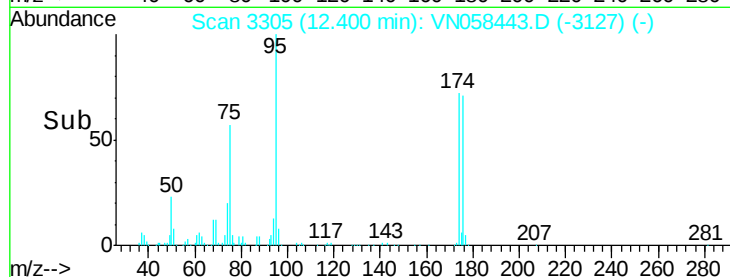
254 0.0 0.1 0.1#



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: VN058443.D

Acq: 30 Sep 2019 18:08

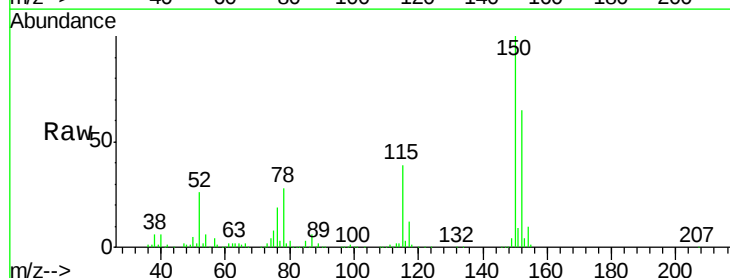
Tgt Ion:152 Resp: 212981

Ion Ratio Lower Upper

152 100

115 61.1 30.0 90.0

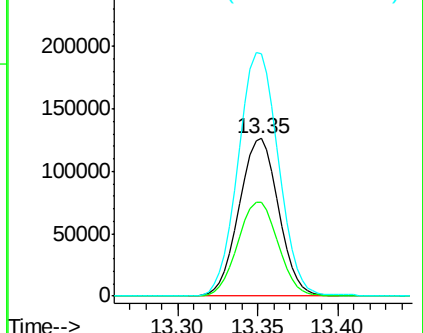
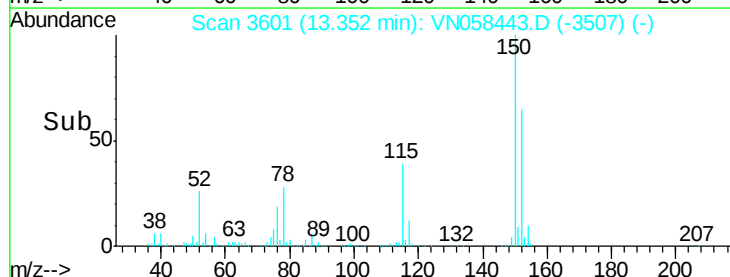
150 157.3 0.0 348.2

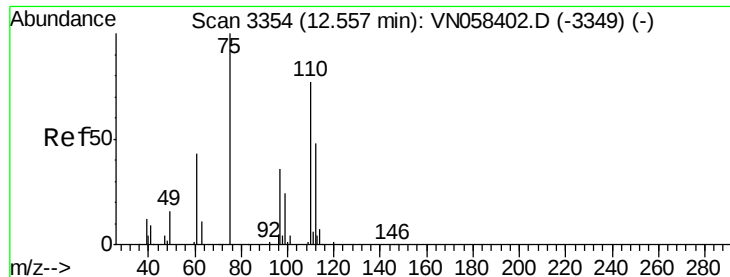


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 36.153 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058443.D

Acq: 30 Sep 2019 18:08

Instrument :

MSVOA_N

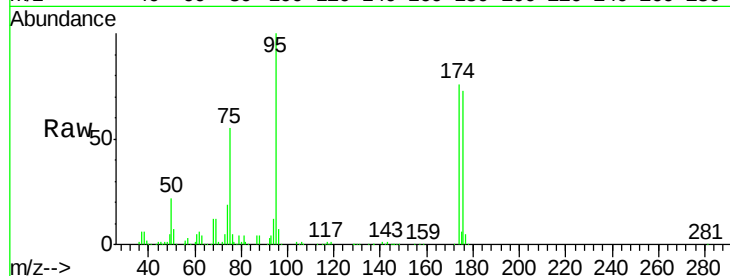
ClientSampleId :

Tot Ion: 75 Resp: 140641

Ion Ratio Lower Upper

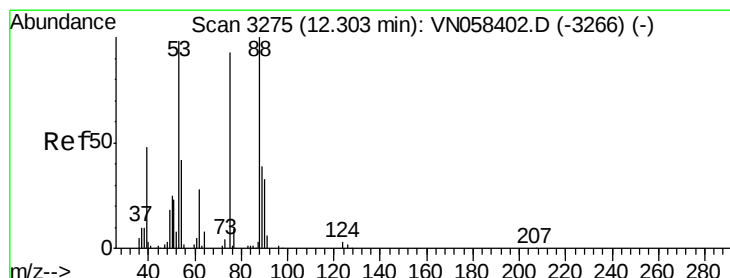
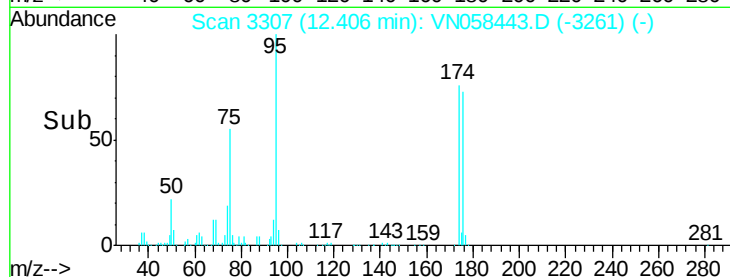
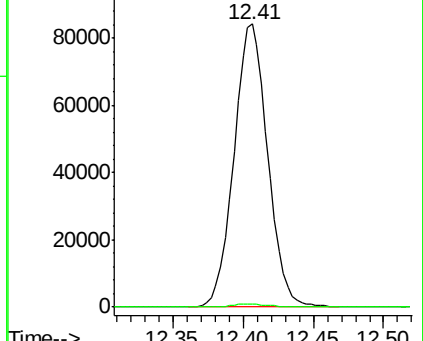
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 109.802 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058443.D

Acq: 30 Sep 2019 18:08

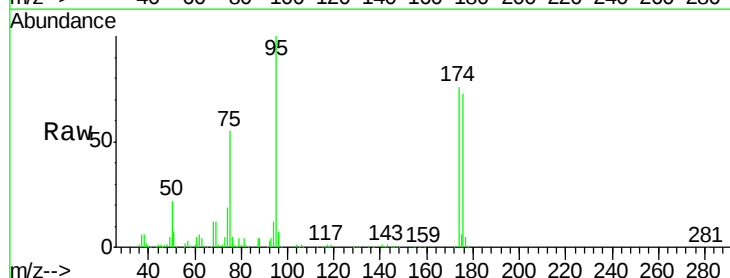
Tgt Ion: 75 Resp: 140641

Ion Ratio Lower Upper

75 100

53 0.0 85.4 128.0#

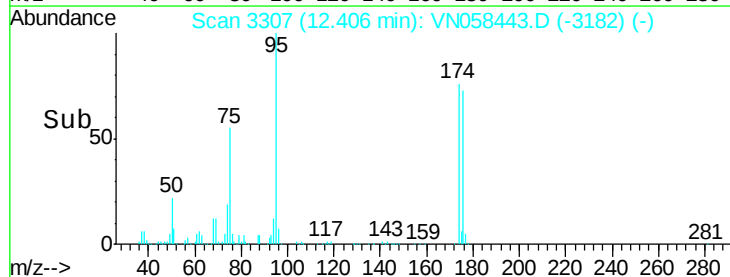
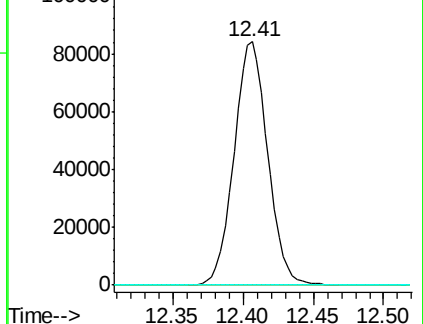
89 0.0 35.0 52.4#

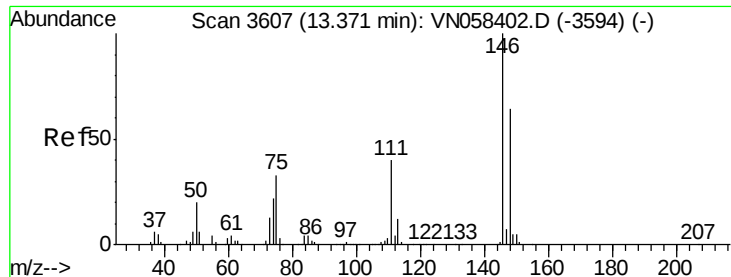


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#88

1,4-Dichlorobenzene

Concen: 0.343 ug/l

RT: 13.37 min Scan# 3607

Delta R.T. 0.00 min

Lab File: VN058443.D

Acq: 30 Sep 2019 18:08

Instrument :

MSVOA_N

ClientSampled :

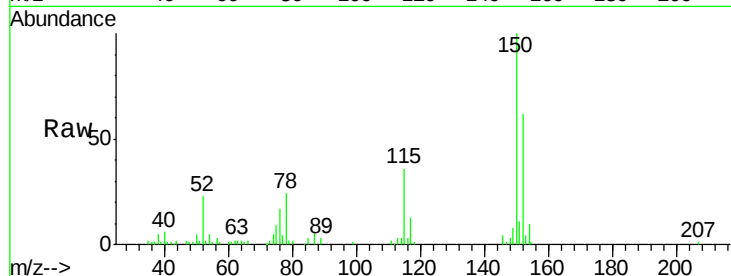
Tot Ion:146 Resp: 2286

Ion Ratio Lower Upper

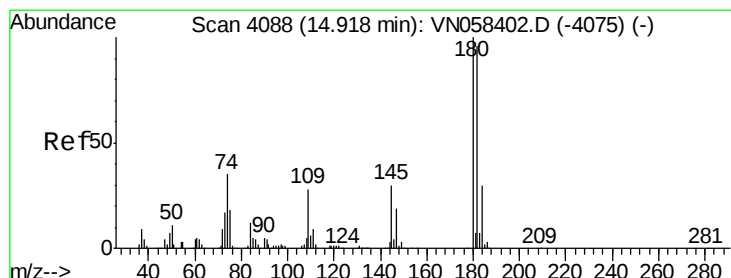
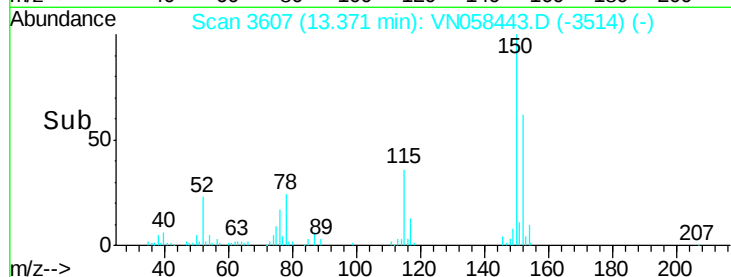
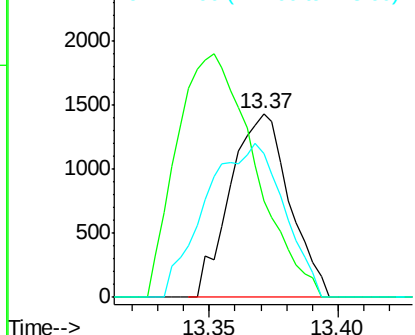
146 100

111 174.0 20.5 61.6#

148 110.7 31.5 94.5#



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#93

1,2,4-Trichlorobenzene

Concen: 0.382 ug/l

RT: 14.92 min Scan# 4090

Delta R.T. 0.01 min

Lab File: VN058443.D

Acq: 30 Sep 2019 18:08

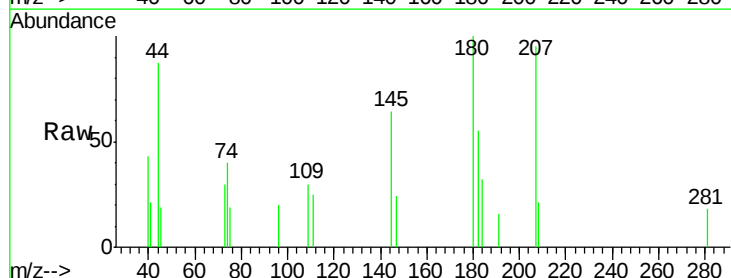
Tgt Ion:180 Resp: 1358

Ion Ratio Lower Upper

180 100

182 55.5 47.4 142.3

145 70.0 15.3 45.9#



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V

