

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN093019\
 Data File : VN058434.D
 Acq On : 30 Sep 2019 14:49
 Operator : JC/SP
 Sample : K5080-14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 01 01:32:11 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	439631	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	708905	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	602014	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	231126	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	309576	48.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.38%	
35) Dibromofluoromethane	7.57	113	217909	50.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.30%	
50) Toluene-d8	10.09	98	870147	51.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.24%	
62) 4-Bromofluorobenzene	12.41	95	275847	44.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.64%	

Target Compounds

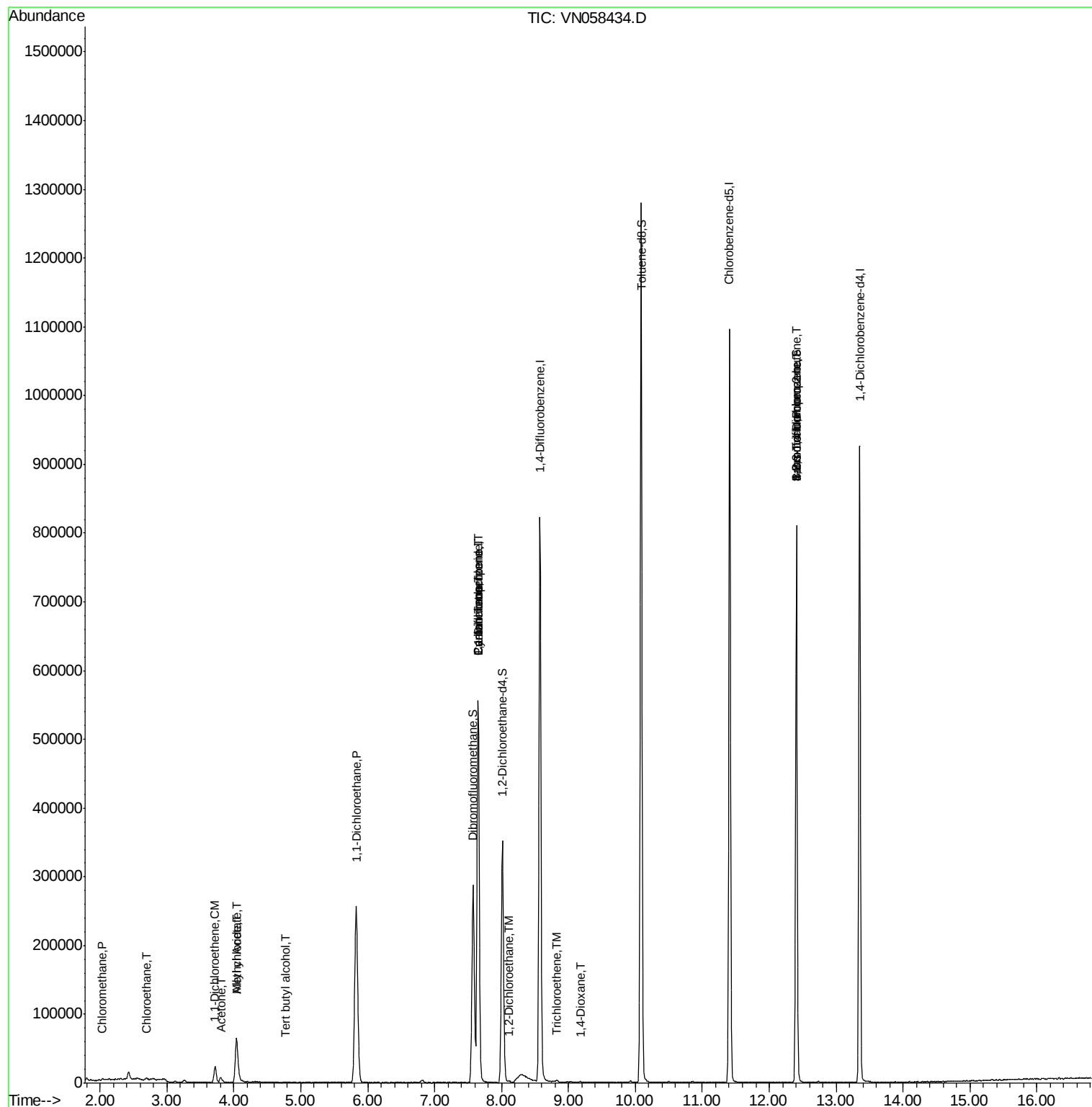
						Qvalue
3) Chloromethane	2.04	50	1409	0.266	ug/l	91
6) Chloroethane	2.69	64	2295	0.738	ug/l #	62
11) Tert butyl alcohol	4.77	59	633	0.887	ug/l #	71
12) 1,1-Dichloroethene	3.72	96	11628	2.804	ug/l	96
14) Allyl chloride	4.04	41	9341	1.238	ug/l #	69
16) Acetone	3.80	43	12948	5.912	ug/l	99
18) Methyl Acetate	4.04	43	25018	4.542	ug/l #	53
24) 1,1-Dichloroethane	5.83	63	396645	43.394	ug/l	100
31) Cyclohexane	7.65	56	10521	1.183	ug/l #	10
36) 1,1-Dichloropropene	7.65	75	38406	5.666	ug/l #	49
38) Carbon Tetrachloride	7.65	117	44520	7.276	ug/l #	16
42) 1,2-Dichloroethane	8.11	62	1667	0.220	ug/l #	78
44) Trichloroethene	8.81	130	1306	0.271	ug/l	79
49) 1,4-Dioxane	9.19	88	98	1.489	ug/l #	22
71) Bromoform	12.41	173	246	0.782	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	151101	35.793	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	151101	108.708	ug/l #	7
96) 1,2,3-Trichlorobenzene	15.31	180	29	Below Cal	#	12

(#) = 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: VN058434.D

Acq: 30 Sep 2019 14:49

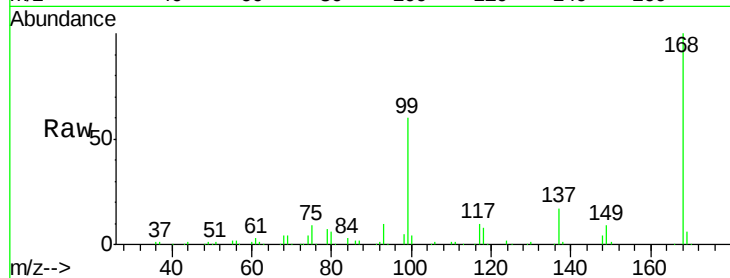
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 439631

Ion Ratio Lower Upper

168 100

99 60.1 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

200000

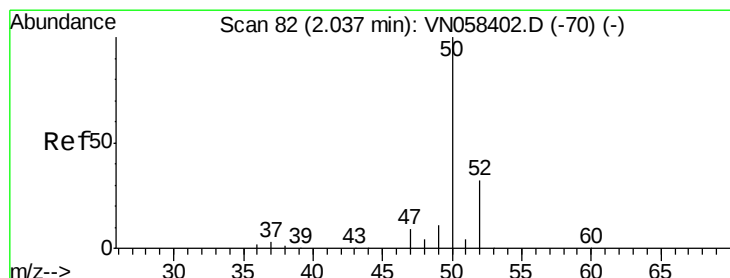
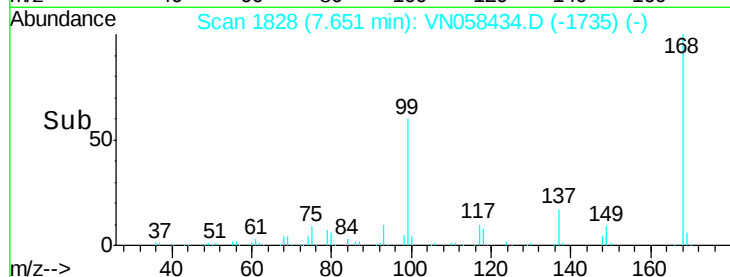
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#3

Chloromethane

Concen: 0.266 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN058434.D

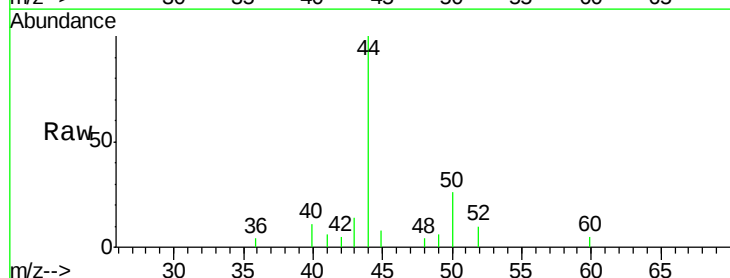
Acq: 30 Sep 2019 14:49

Tgt Ion: 50 Resp: 1409

Ion Ratio Lower Upper

50 100

52 37.2 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

1000

800

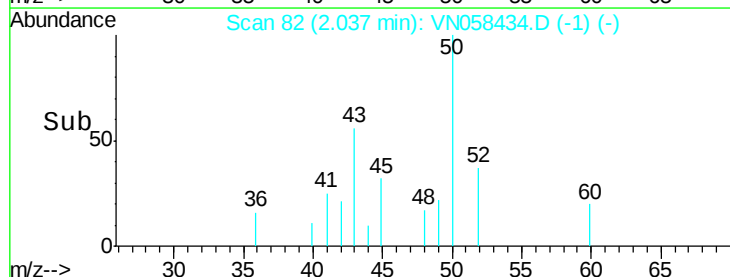
600

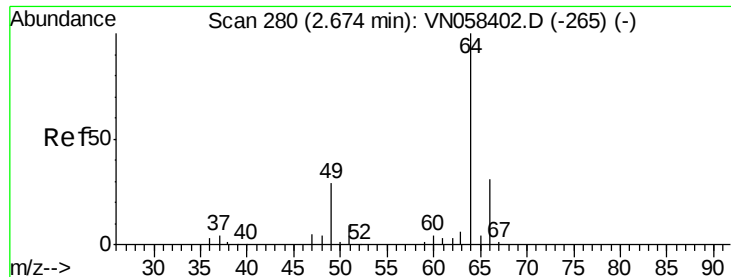
400

200

0

Time--> 2.00 2.05





#6

Chloroethane

Concen: 0.738 ug/l

RT: 2.69 min Scan# 285

Delta R.T. 0.02 min

Lab File: VN058434.D

Acq: 30 Sep 2019 14:49

Instrument :

MSVOA_N

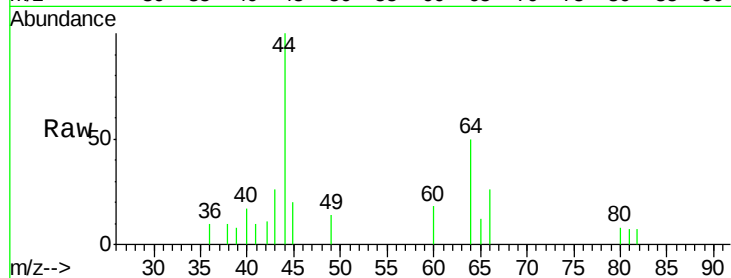
ClientSampled :

Tot Ion: 64 Resp: 2295

Ion Ratio Lower Upper

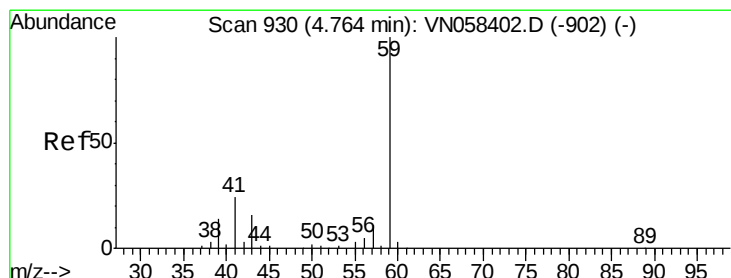
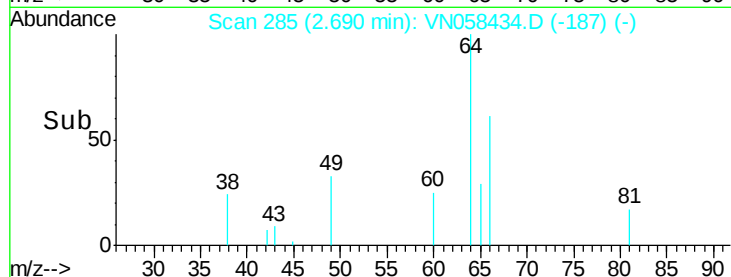
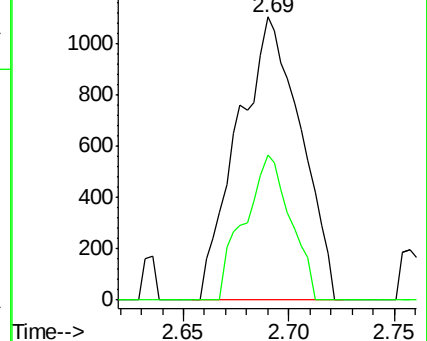
64 100

66 51.3 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: 0.887 ug/l

RT: 4.77 min Scan# 933

Delta R.T. 0.01 min

Lab File: VN058434.D

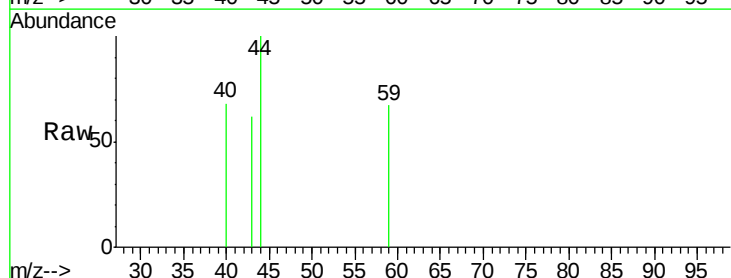
Acq: 30 Sep 2019 14:49

Tgt Ion: 59 Resp: 633

Ion Ratio Lower Upper

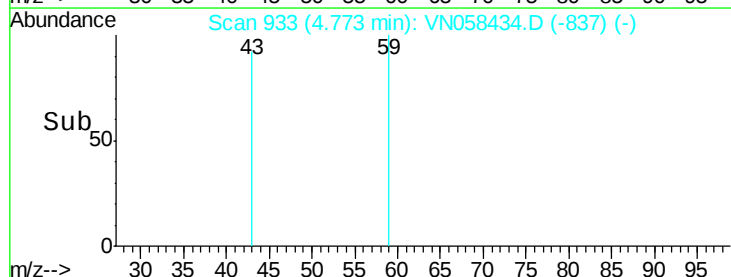
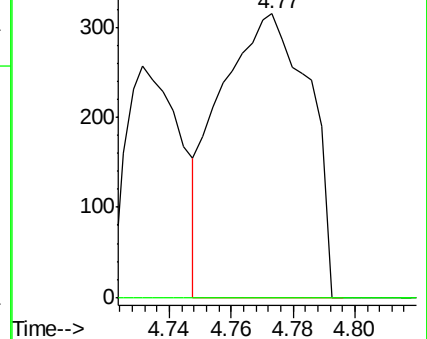
59 100

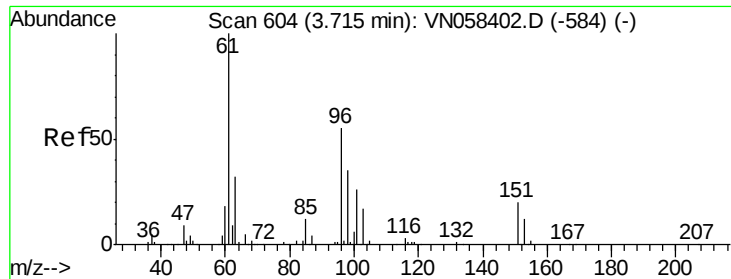
57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#12

1,1-Dichloroethene

Concen: 2.804 ug/l

RT: 3.72 min Scan# 604

Delta R.T. 0.00 min

Lab File: VN058434.D

Acq: 30 Sep 2019 14:49

Instrument :

MSVOA_N

ClientSampleId :

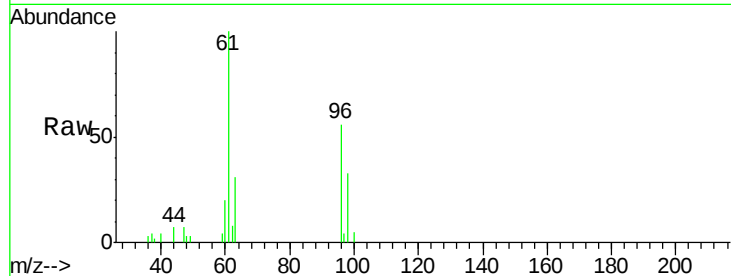
Tot Ion: 96 Resp: 11628

Ion Ratio Lower Upper

96 100

61 179.7 146.7 220.1

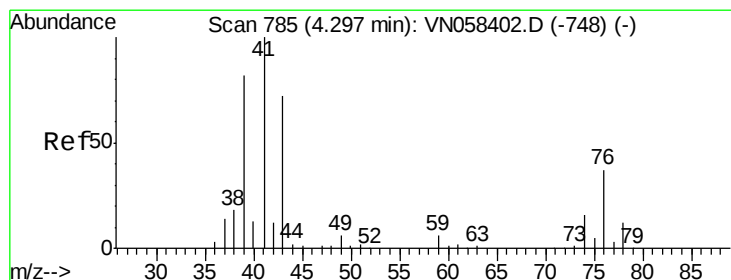
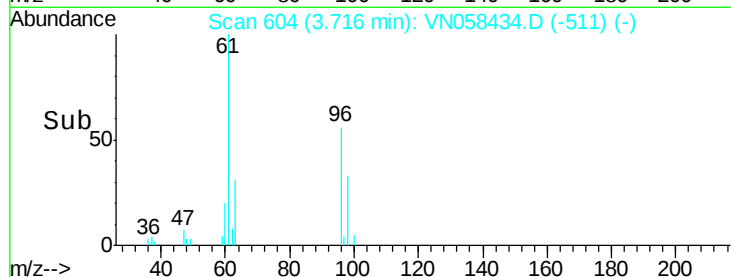
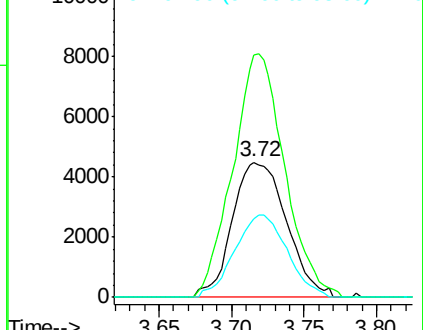
98 58.6 51.3 76.9



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



#14

Allyl chloride

Concen: 1.238 ug/l

RT: 4.04 min Scan# 704

Delta R.T. -0.26 min

Lab File: VN058434.D

Acq: 30 Sep 2019 14:49

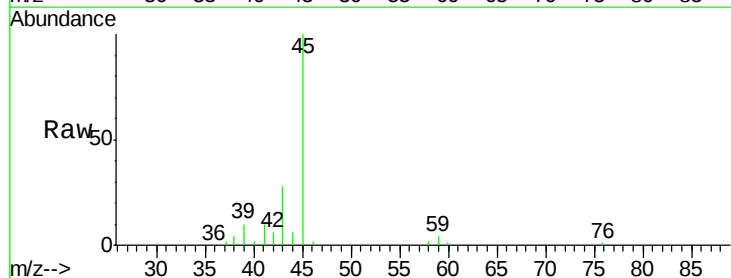
Tgt Ion: 41 Resp: 9341

Ion Ratio Lower Upper

41 100

39 98.8 62.3 93.5#

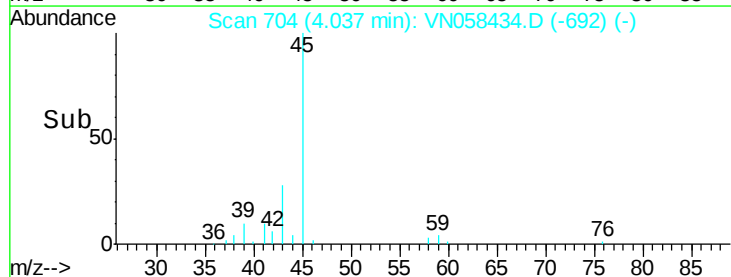
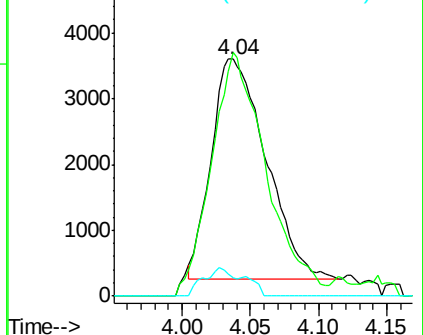
76 6.9 26.9 40.3#

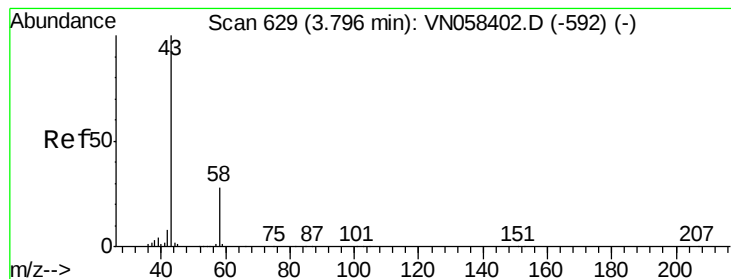


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#16

Acetone

Concen: 5.912 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN058434.D

Acq: 30 Sep 2019 14:49

Instrument :

MSVOA_N

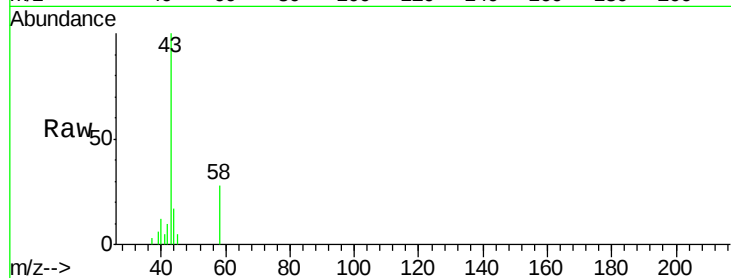
ClientSampled :

Tot Ion: 43 Resp: 12948

Ion Ratio Lower Upper

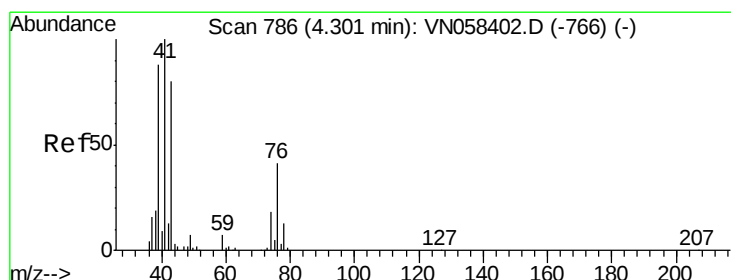
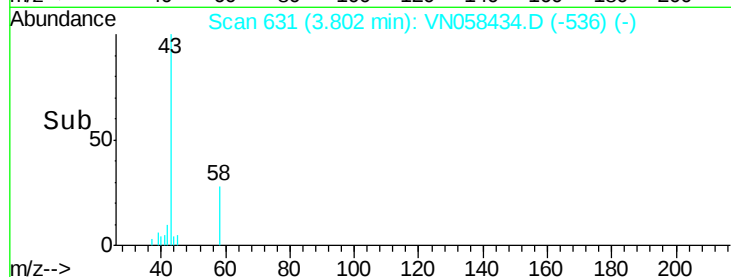
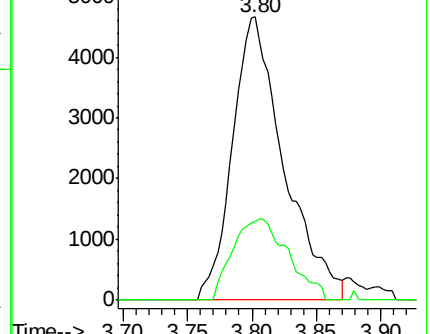
43 100

58 27.7 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: 4.542 ug/l

RT: 4.04 min Scan# 704

Delta R.T. -0.26 min

Lab File: VN058434.D

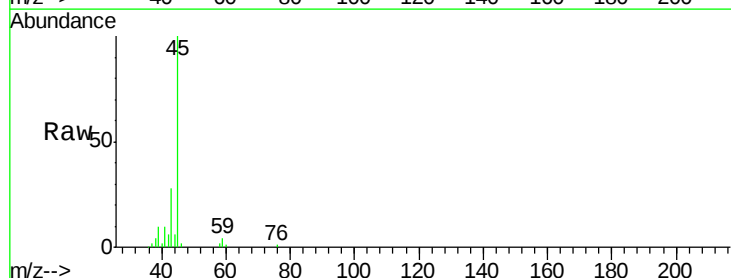
Acq: 30 Sep 2019 14:49

Tgt Ion: 43 Resp: 25018

Ion Ratio Lower Upper

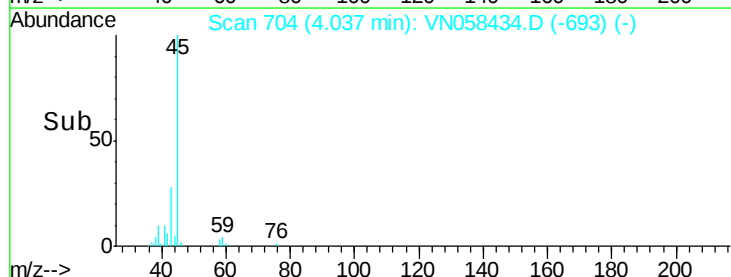
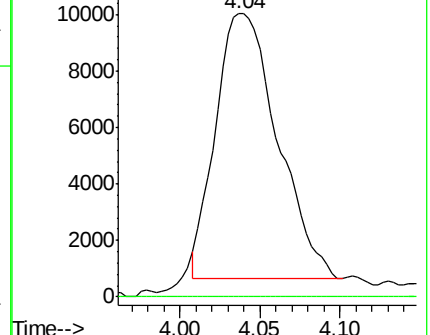
43 100

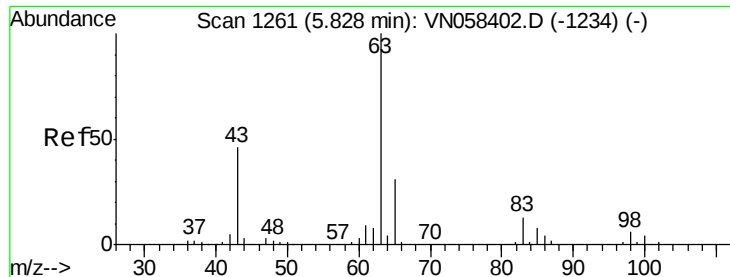
74 0.0 18.0 27.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

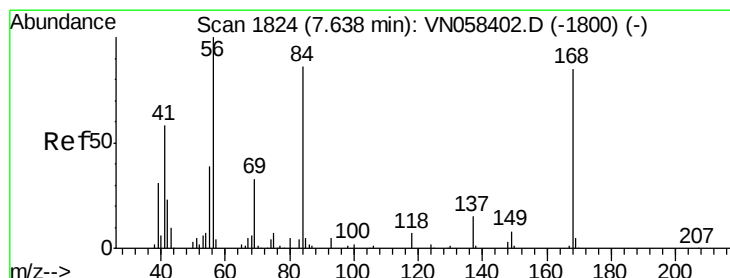
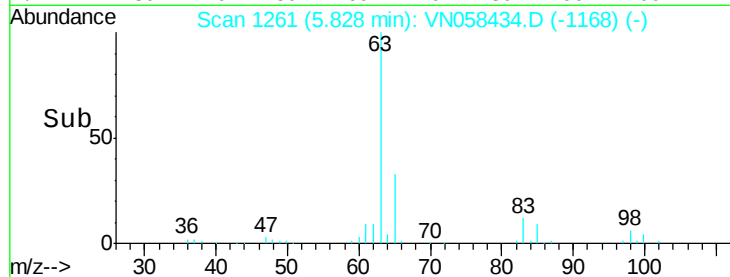
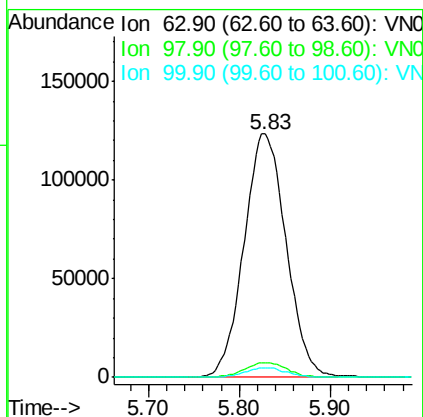
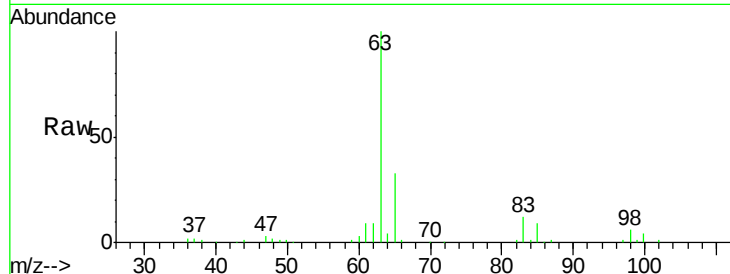




#24
 1,1-Dichloroethane
 Concen: 43.394 ug/l
 RT: 5.83 min Scan# 1261
 Delta R.T. 0.00 min
 Lab File: VN058434.D
 Acq: 30 Sep 2019 14:49

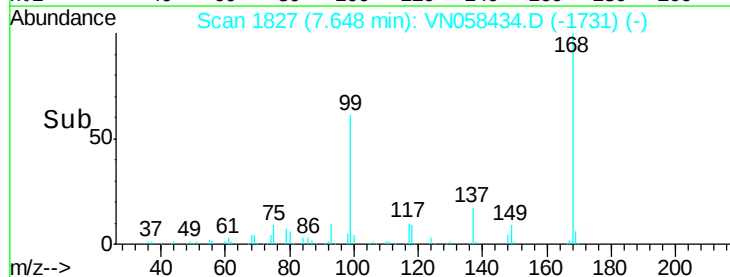
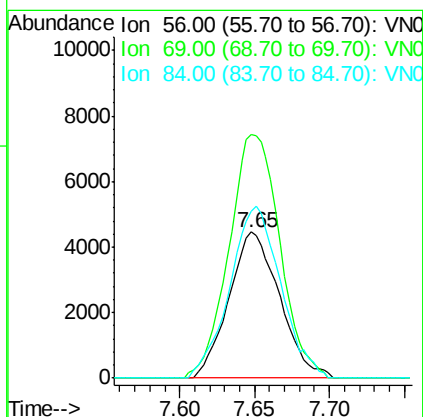
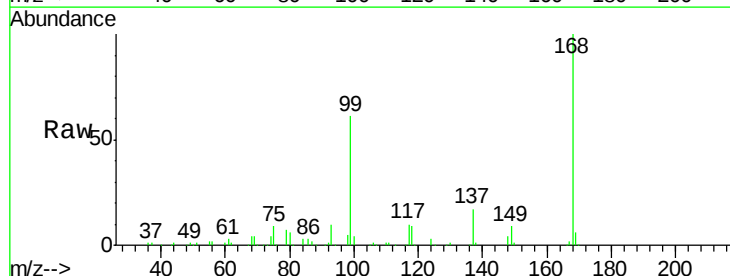
Instrument :
 MSVOA_N
 ClientSampleId :

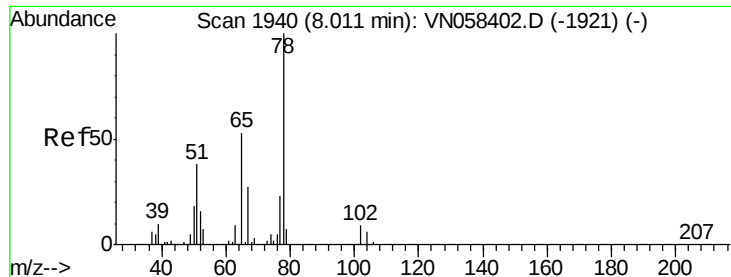
Tot Ion:	63	Resp:	396645
Ion	Ratio	Lower	Upper
63	100		
98	5.9	3.0	9.0
100	3.7	2.0	5.8



#31
 Cyclohexane
 Concen: 1.183 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. 0.01 min
 Lab File: VN058434.D
 Acq: 30 Sep 2019 14:49

Tgt Ion:	56	Resp:	10521
Ion	Ratio	Lower	Upper
56	100		
69	166.5	26.2	39.4#
84	114.5	67.6	101.4#





#33

1,2-Dichloroethane-d4

Concen: 48.187 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058434.D

Acq: 30 Sep 2019 14:49

Instrument :

MSVOA_N

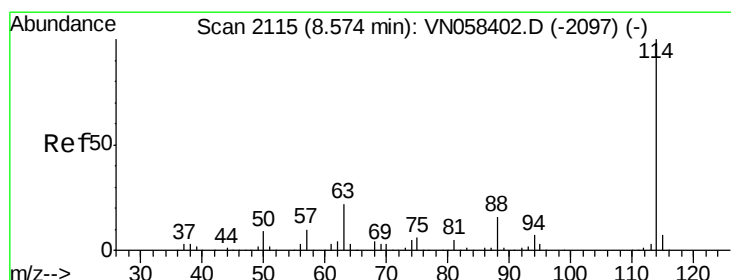
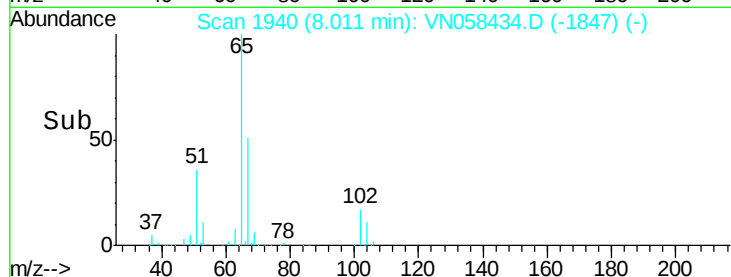
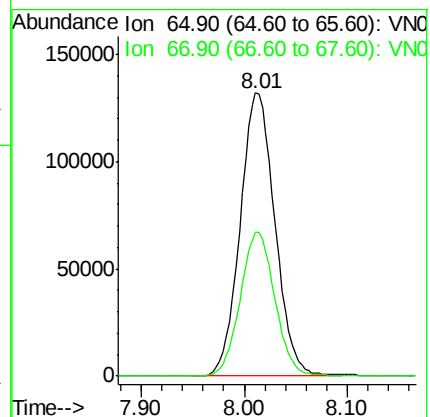
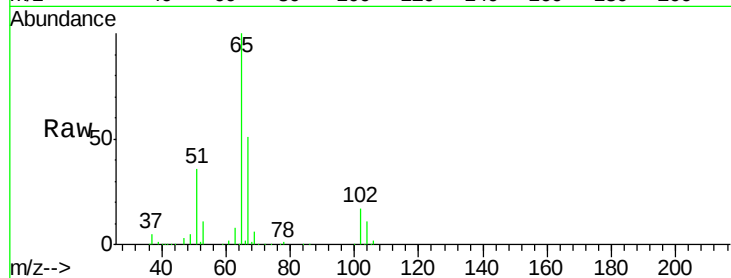
ClientSampled :

Tot Ion: 65 Resp: 309576

Ion Ratio Lower Upper

65 100

67 50.8 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. 0.00 min

Lab File: VN058434.D

Acq: 30 Sep 2019 14:49

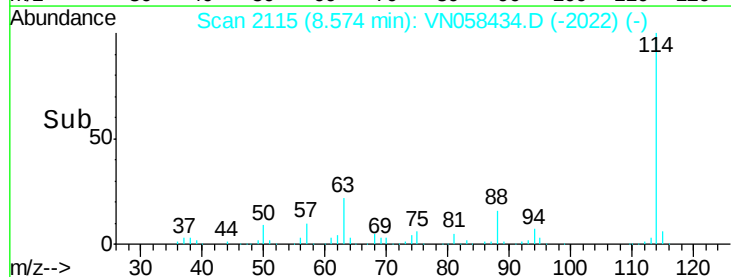
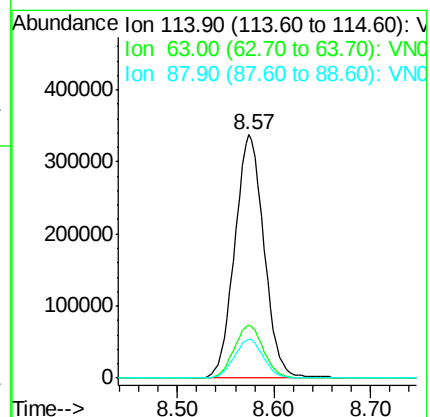
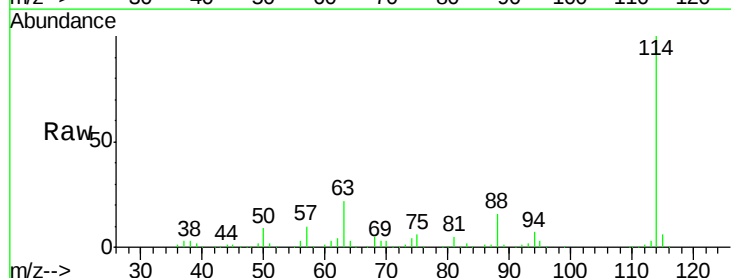
Tgt Ion: 114 Resp: 708905

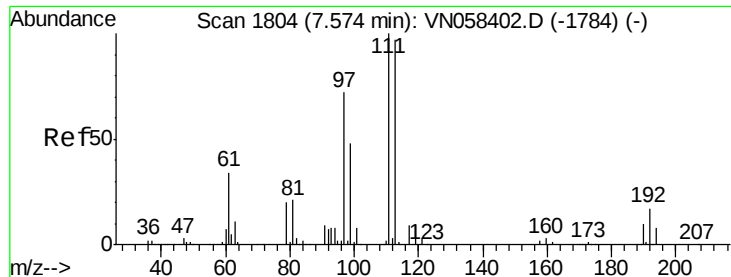
Ion Ratio Lower Upper

114 100

63 21.9 0.0 45.0

88 16.1 0.0 32.2

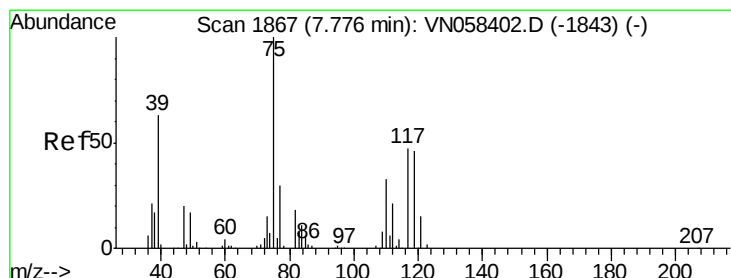
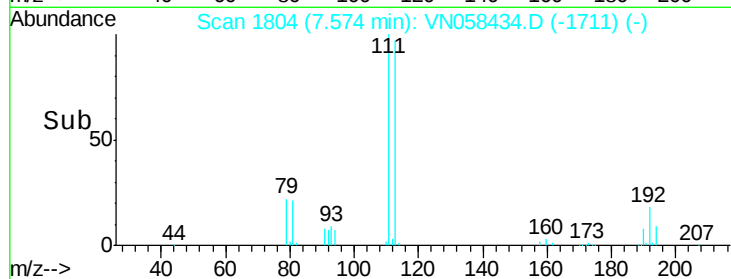
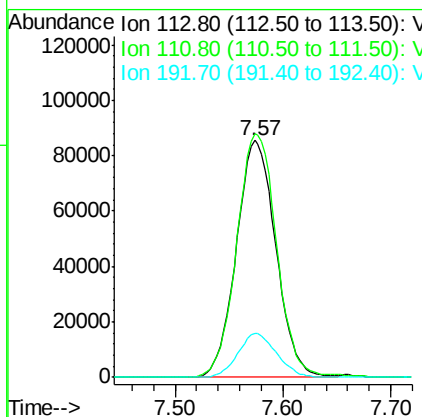
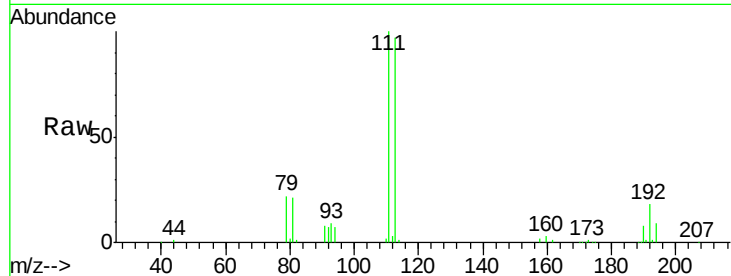




#35
 Dibromofluoromethane
 Concen: 50.154 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058434.D
 Acq: 30 Sep 2019 14:49

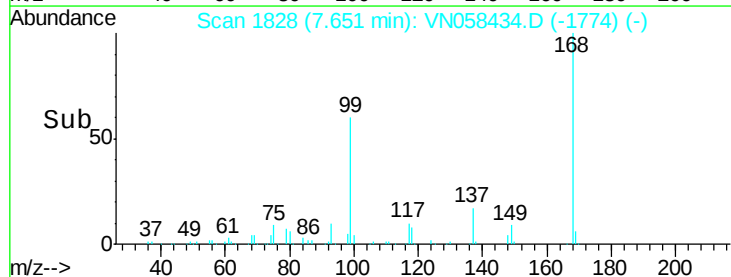
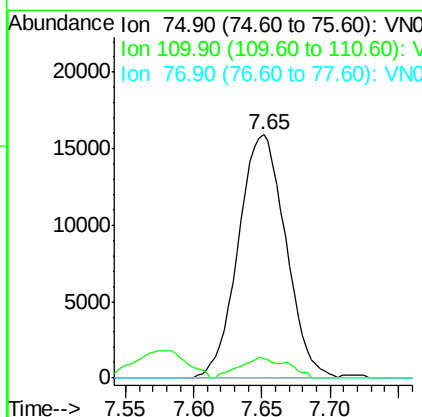
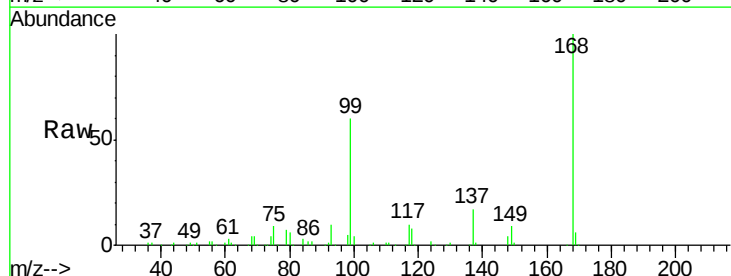
Instrument :
 MSVOA_N
 ClientSampled :

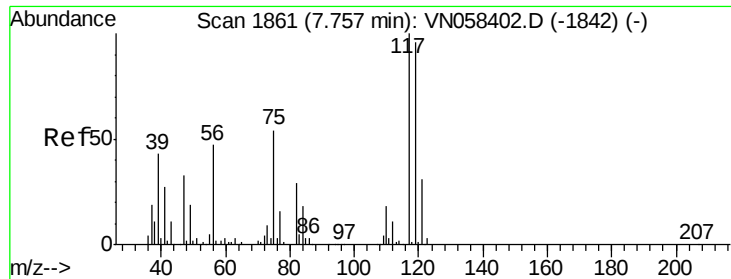
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.3	83.4	125.2
192	18.2	14.9	22.3



#36
 1,1-Dichloropropene
 Concen: 5.666 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058434.D
 Acq: 30 Sep 2019 14:49

Tgt Ion	Ratio	Lower	Upper
75	100		
110	6.1	16.4	49.2#
77	0.0	24.3	36.5#





#38

Carbon Tetrachloride

Concen: 7.276 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058434.D

Acq: 30 Sep 2019 14:49

Instrument :

MSVOA_N

ClientSampled :

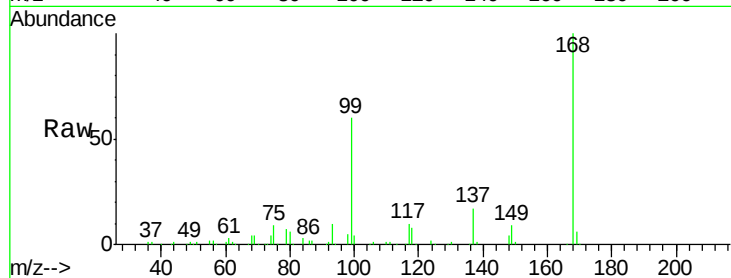
Tot Ion:117 Resp: 44520

Ion Ratio Lower Upper

117 100

119 4.5 76.6 115.0#

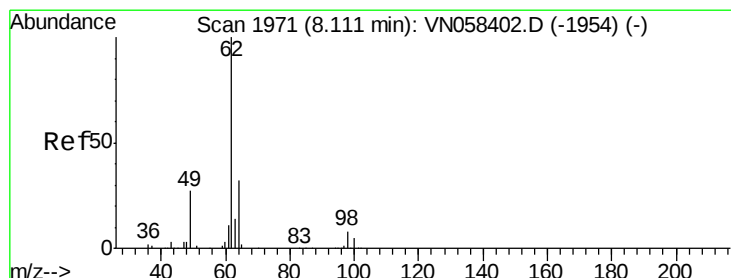
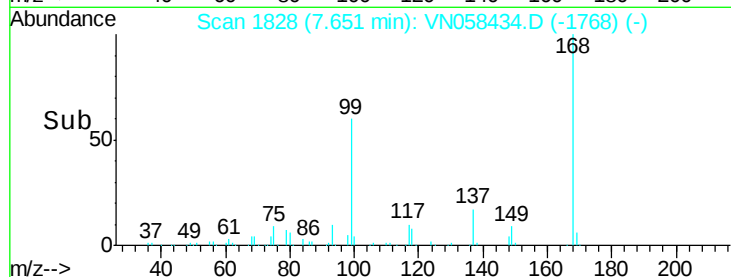
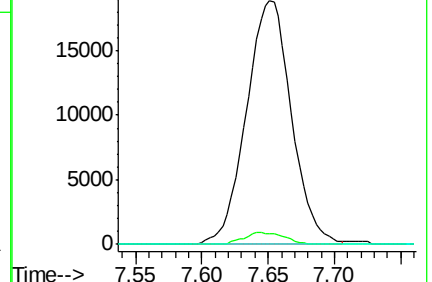
121 0.0 24.7 37.1#



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



#42

1,2-Dichloroethane

Concen: 0.220 ug/l

RT: 8.11 min Scan# 1970

Delta R.T. -0.00 min

Lab File: VN058434.D

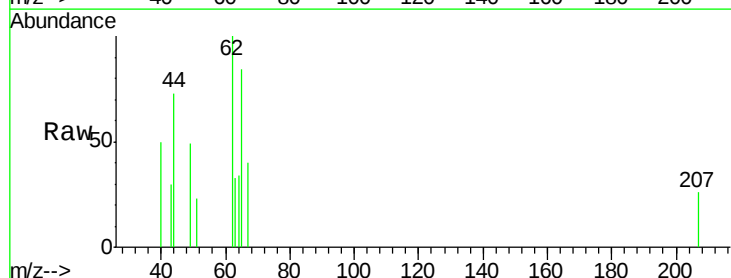
Acq: 30 Sep 2019 14:49

Tgt Ion: 62 Resp: 1667

Ion Ratio Lower Upper

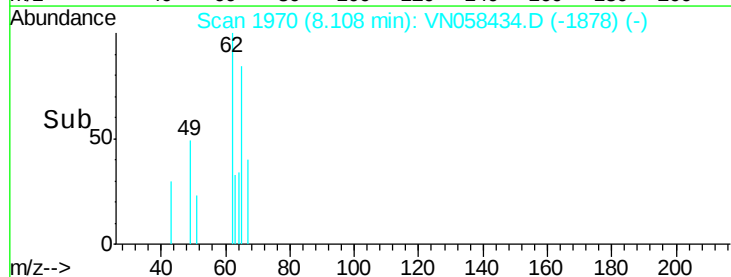
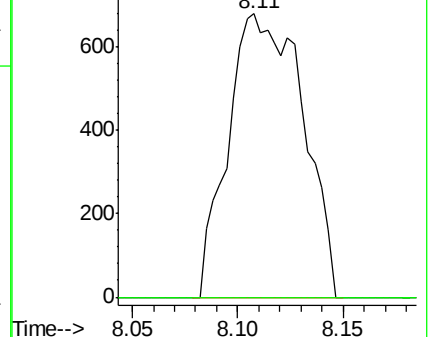
62 100

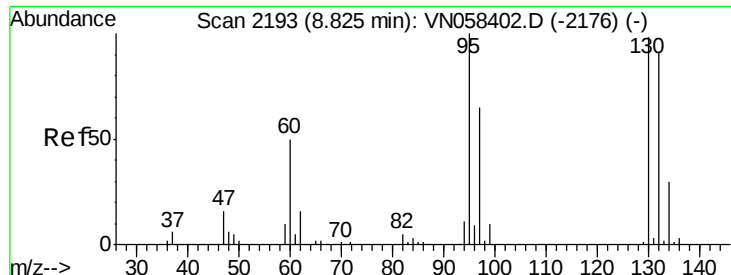
98 0.0 0.0 15.6



Abundance Ion 61.90 (61.60 to 62.60): V

Ion 97.90 (97.60 to 98.60): V

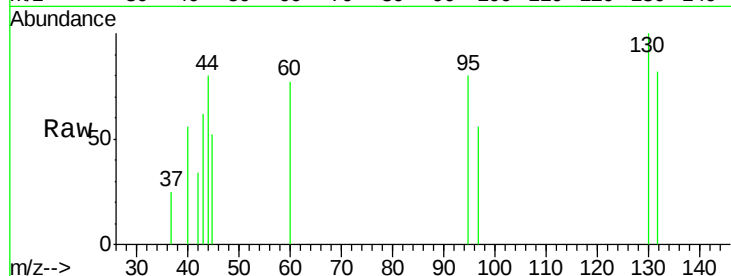




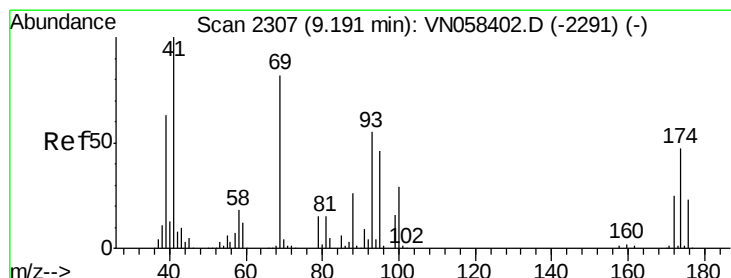
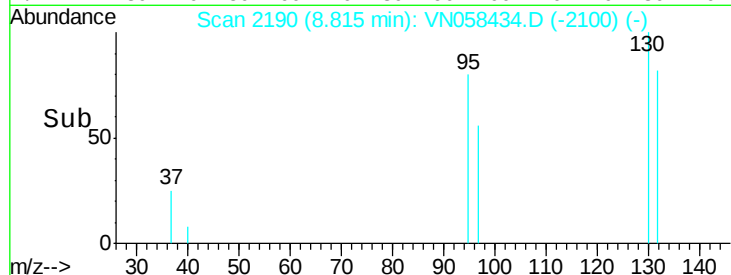
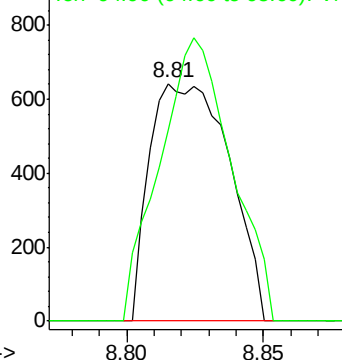
#44
 Trichloroethene
 Concen: 0.271 ug/l
 RT: 8.81 min Scan# 2190
 Delta R.T. -0.01 min
 Lab File: VN058434.D
 Acq: 30 Sep 2019 14:49

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:130 Resp: 1306
 Ion Ratio Lower Upper
 130 100
 95 80.4 0.0 204.2

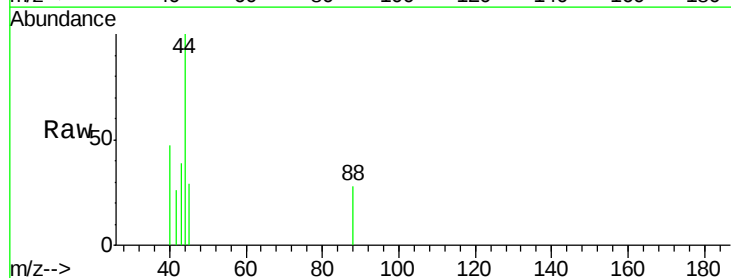


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VN

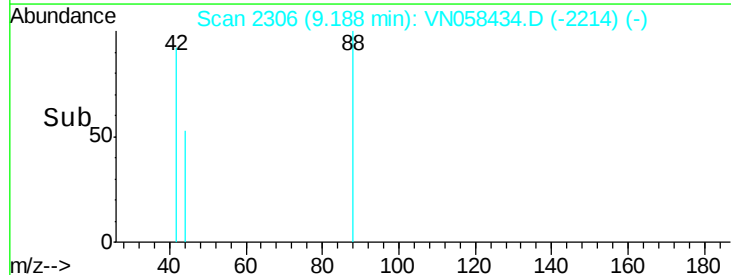
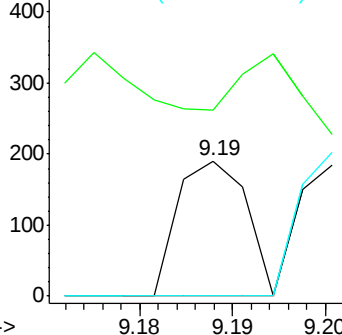


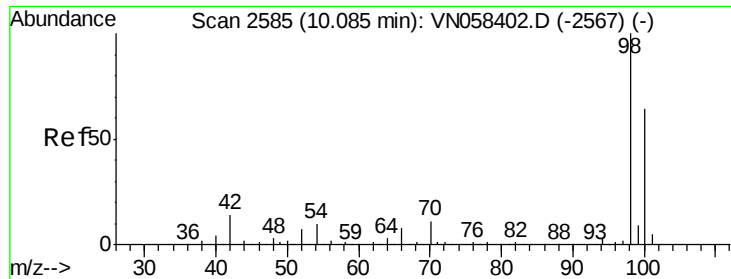
#49
 1,4-Dioxane
 Concen: 1.489 ug/l
 RT: 9.19 min Scan# 2306
 Delta R.T. -0.00 min
 Lab File: VN058434.D
 Acq: 30 Sep 2019 14:49

Tgt Ion: 88 Resp: 98
 Ion Ratio Lower Upper
 88 100
 43 76.5 31.1 46.7#
 58 0.0 58.1 87.1#



Abundance Ion 88.00 (87.70 to 88.70): VN
 Ion 43.00 (42.70 to 43.70): VN
 Ion 58.00 (57.70 to 58.70): VN





#50

Toluene-d8

Concen: 51.124 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058434.D

Acq: 30 Sep 2019 14:49

Instrument :

MSVOA_N

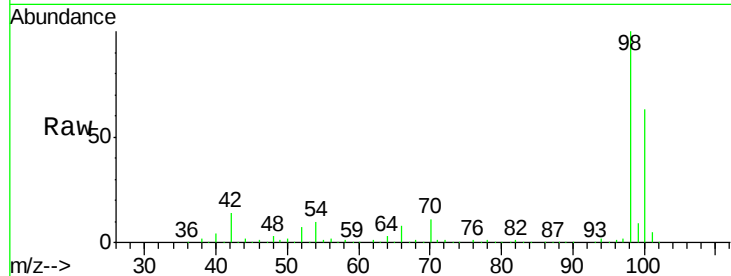
ClientSampled :

Tot Ion: 98 Resp: 870147

Ion Ratio Lower Upper

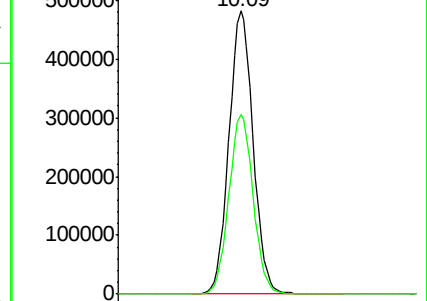
98 100

100 63.6 51.0 76.6

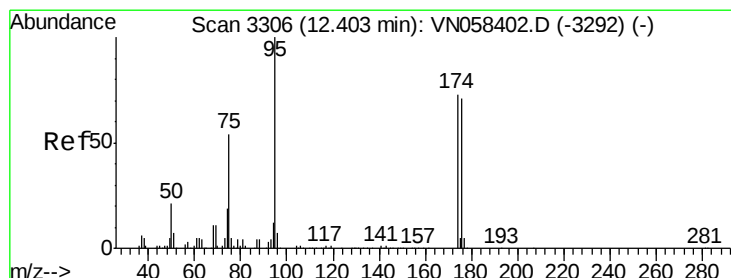
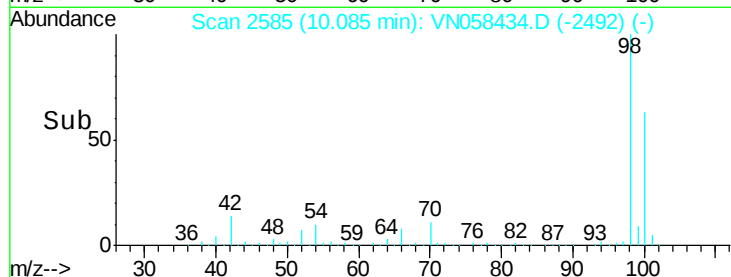


Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



Time-->



#62

4-Bromofluorobenzene

Concen: 44.822 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058434.D

Acq: 30 Sep 2019 14:49

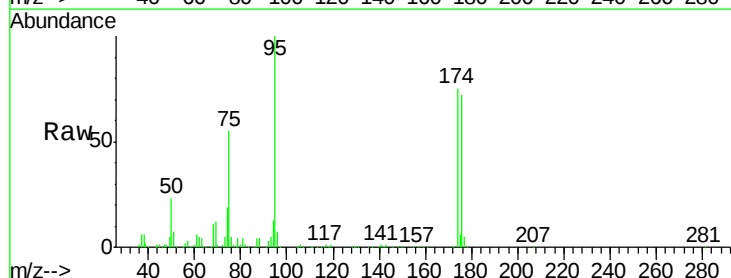
Tgt Ion: 95 Resp: 275847

Ion Ratio Lower Upper

95 100

174 75.2 0.0 150.6

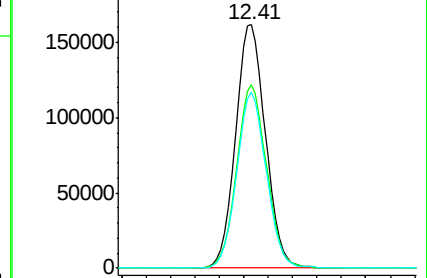
176 71.5 0.0 146.2



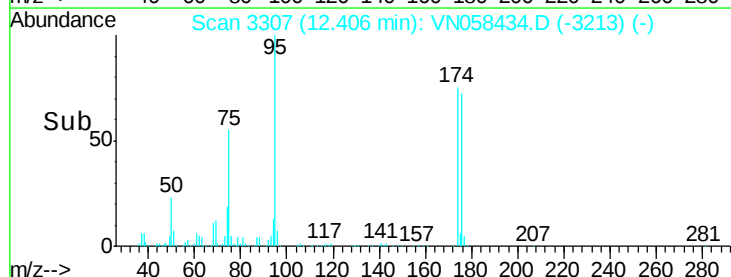
Abundance Ion 94.90 (94.60 to 95.60): VN0

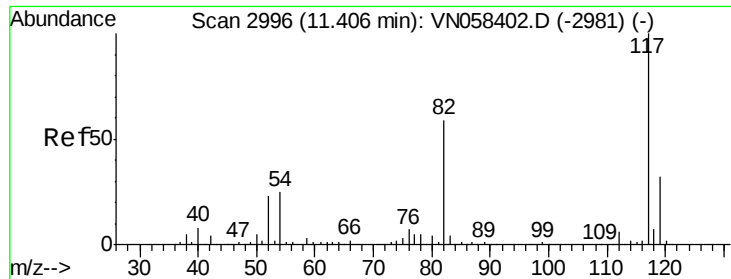
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



Time-->

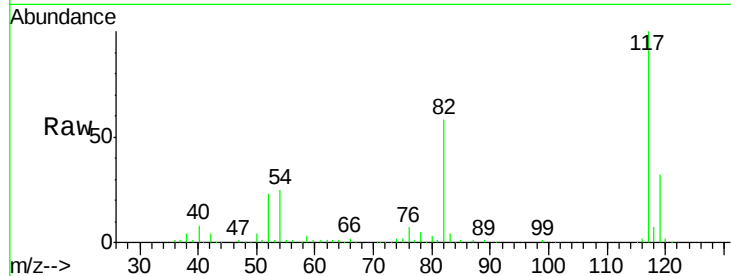




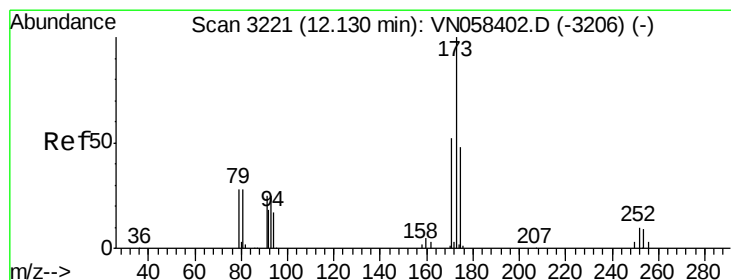
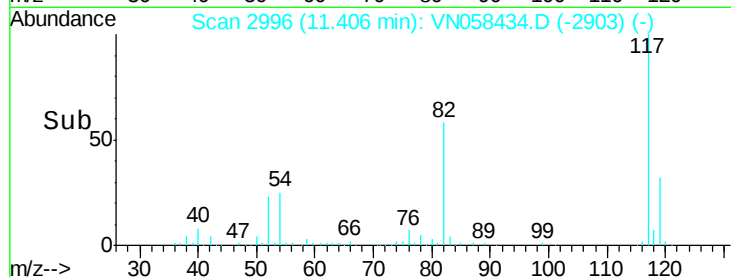
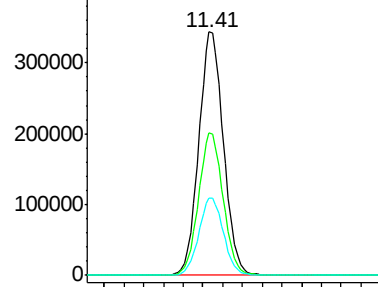
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058434.D
Acq: 30 Sep 2019 14:49

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 602014
Ion Ratio Lower Upper
117 100
82 58.4 47.4 71.0
119 32.0 25.5 38.3

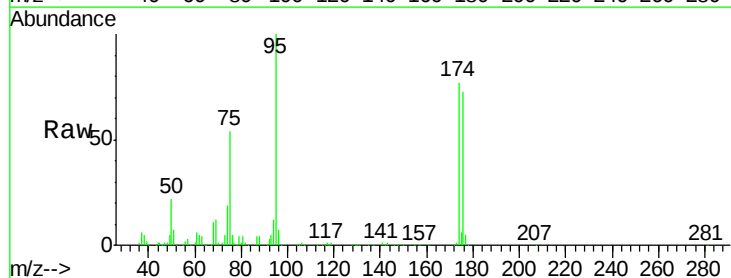


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

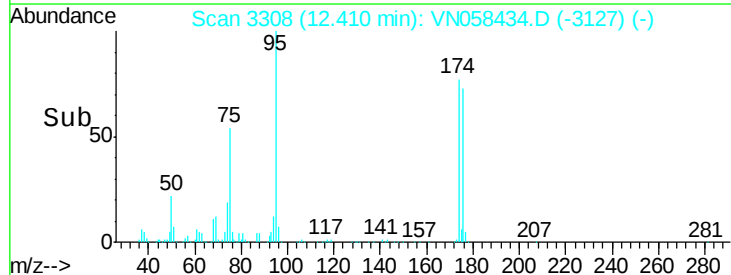
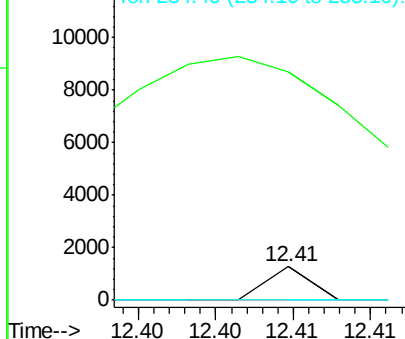


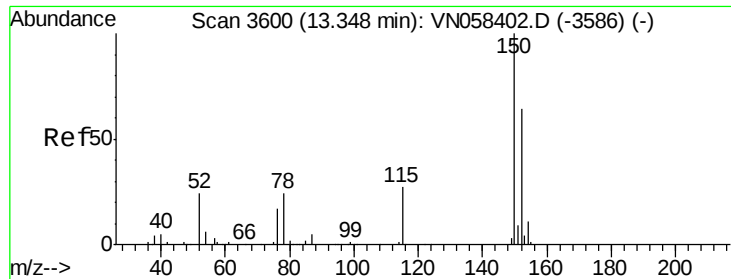
#71
Bromoform
Concen: 0.782 ug/l
RT: 12.41 min Scan# 3308
Delta R.T. 0.28 min
Lab File: VN058434.D
Acq: 30 Sep 2019 14:49

Tgt Ion:173 Resp: 246
Ion Ratio Lower Upper
173 100
175 5326.0 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



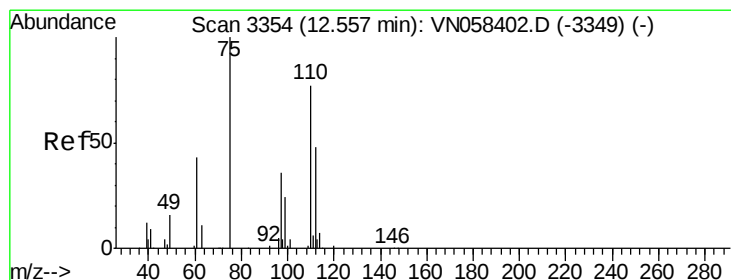
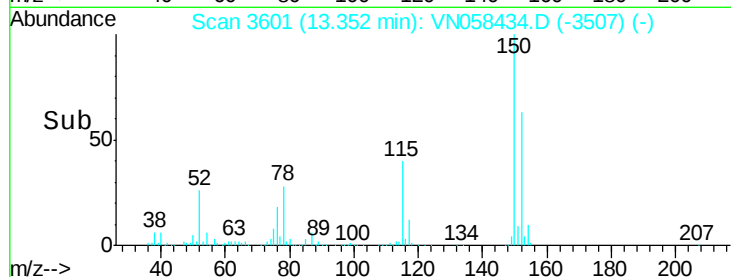
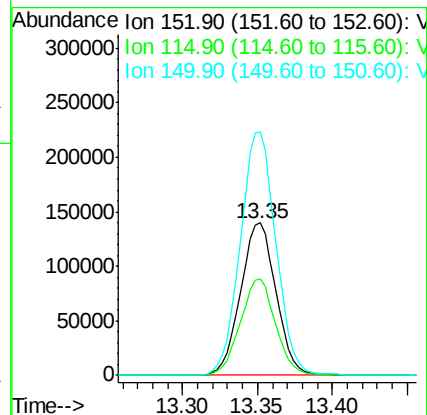
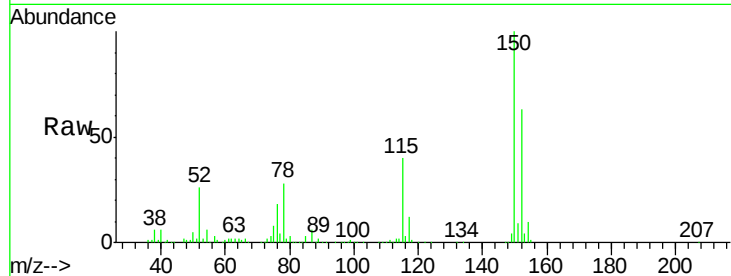


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN058434.D
Acq: 30 Sep 2019 14:49

Instrument :
MSVOA_N
ClientSampled :

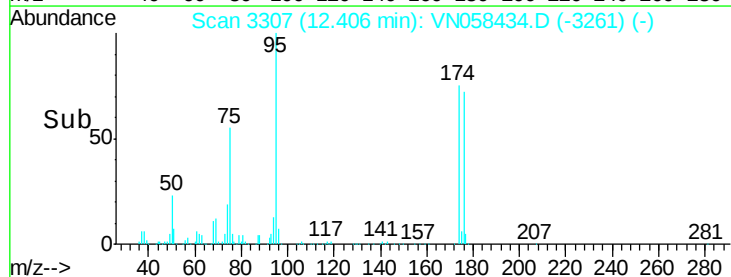
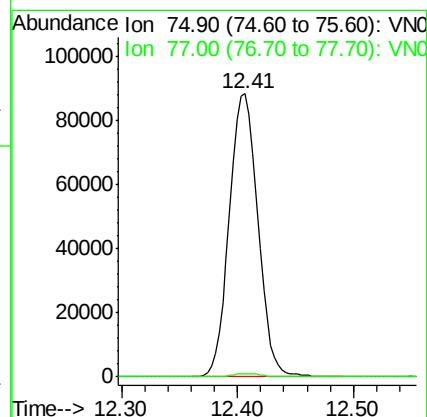
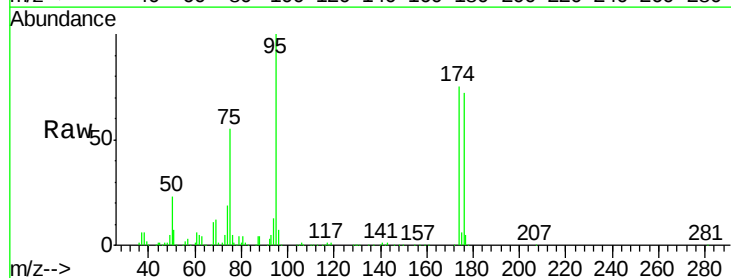
Tot Ion:152 Resp: 231126
Ion Ratio Lower Upper
152 100
115 62.6 30.0 90.0
150 160.3 0.0 348.2

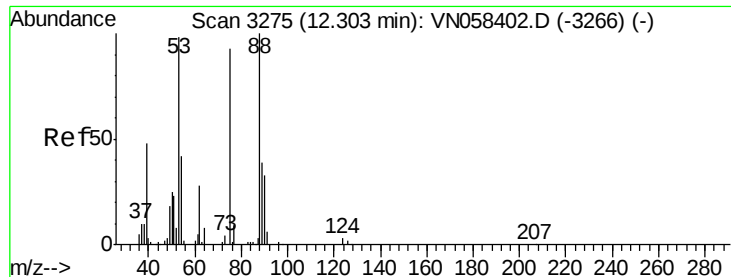


#76

1,2,3-Trichloropropane
Concen: 35.793 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. -0.15 min
Lab File: VN058434.D
Acq: 30 Sep 2019 14:49

Tgt Ion: 75 Resp: 151101
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 108.708 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058434.D

Acq: 30 Sep 2019 14:49

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 75 Resp: 151101

Ion Ratio Lower Upper

75 100

53 0.0 85.4 128.0#

89 0.0 35.0 52.4#

