

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092319\
 Data File : VN058298.D
 Acq On : 23 Sep 2019 17:21
 Operator : JC/SP
 Sample : K4975-11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 24 01:34:46 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	470940	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	771643	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	660683	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	254068	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	356421	54.34	ug/l	0.00
Spiked Amount						
			Recovery	=	108.68%	
35) Dibromofluoromethane	7.58	113	243024	51.81	ug/l	0.00
Spiked Amount						
			Recovery	=	103.62%	
50) Toluene-d8	10.09	98	992707	54.31	ug/l	0.00
Spiked Amount						
			Recovery	=	108.62%	
62) 4-Bromofluorobenzene	12.41	95	304790	44.89	ug/l	0.00
Spiked Amount						
			Recovery	=	89.78%	

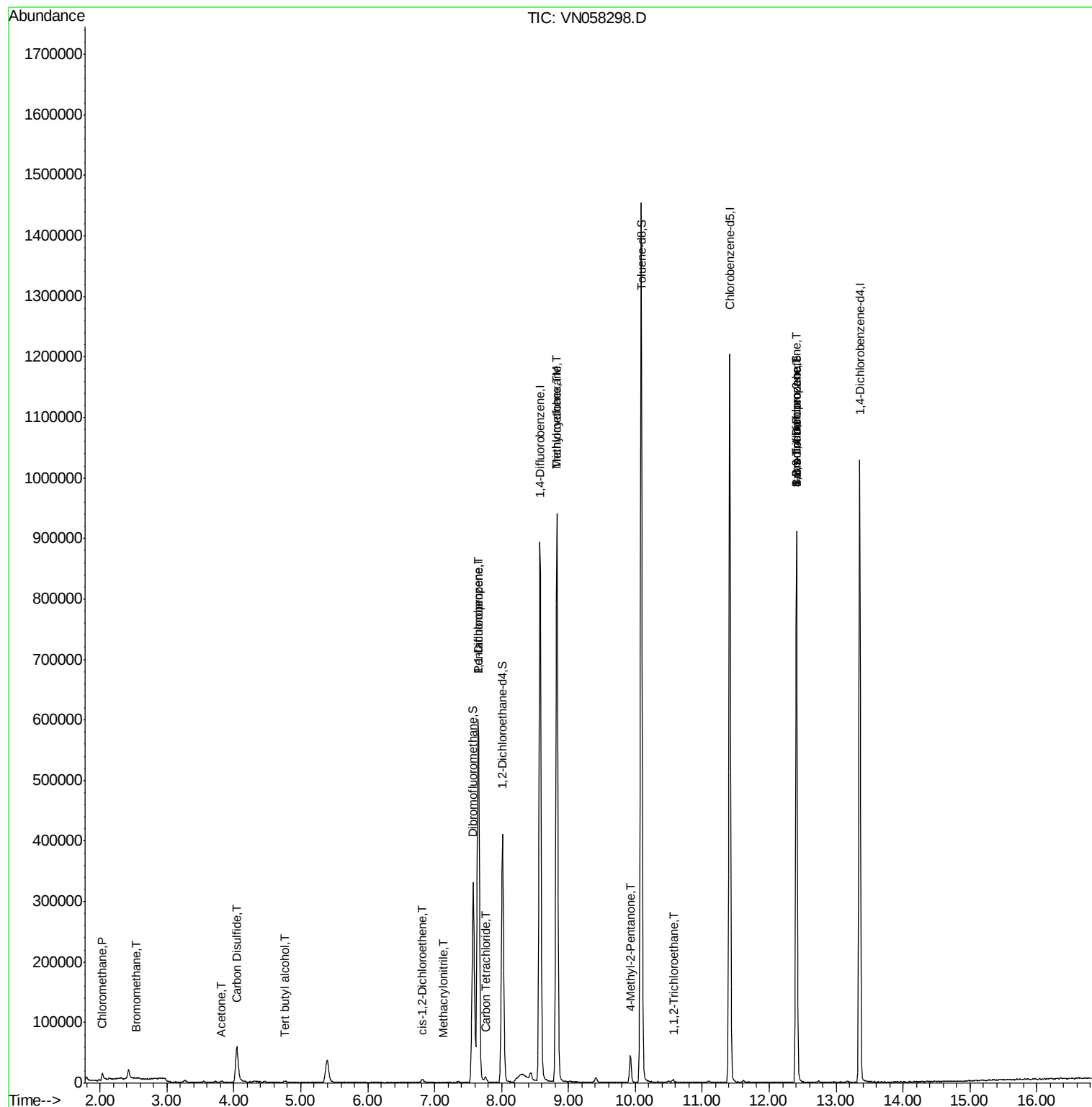
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	8923	2.000	ug/l	99
5) Bromomethane	2.55	94	78	0.767	ug/l #	4
6) Chloroethane	2.68	64	136	Below Cal	#	44
11) Tert butyl alcohol	4.76	59	3262	4.181	ug/l #	80
12) 1,1-Dichloroethene	3.71	96	583	Below Cal	#	70
16) Acetone	3.81	43	4056	1.822	ug/l	93
17) Carbon Disulfide	4.03	76	250	0.332	ug/l #	74
20) Methylene Chloride	4.54	84	235	Below Cal	#	39
27) cis-1,2-Dichloroethene	6.81	96	2389	0.500	ug/l	97
31) Cyclohexane	7.65	56	12191	Below Cal	#	13
36) 1,1-Dichloropropene	7.65	75	40625	7.300	ug/l #	51
38) Carbon Tetrachloride	7.75	117	2713	0.485	ug/l	94
39) Methylcyclohexane	8.82	83	4480	0.902	ug/l #	1
41) Methacrylonitrile	7.14	41	142	0.959	ug/l #	100
44) Trichloroethene	8.82	130	326187	78.425	ug/l	100
51) 4-Methyl-2-Pentanone	9.92	43	22264	3.886	ug/l #	37
55) 1,1,2-Trichloroethane	10.56	97	1969	0.417	ug/l #	78
71) Bromoform	12.41	173	558	3.761	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	170319	37.457	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	170319	104.375	ug/l #	5

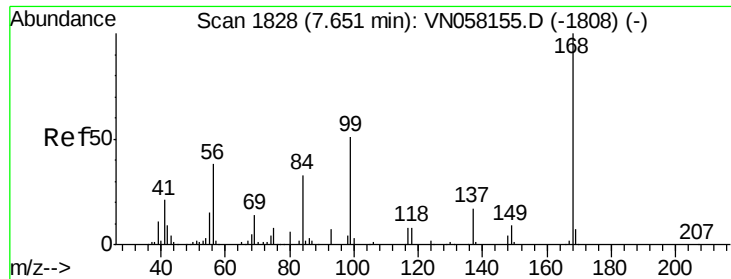
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Sep 19 09:27:53 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: VN058298.D

Acq: 23 Sep 2019 17:21

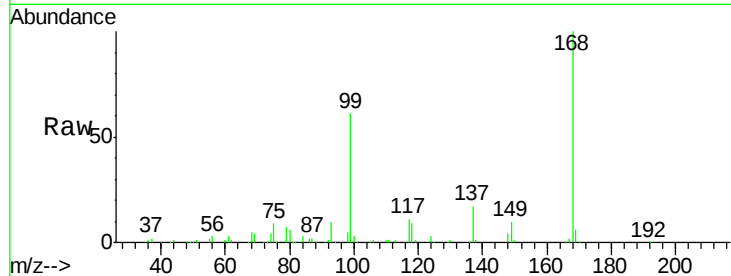
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 470940

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): VNO

7.65

200000

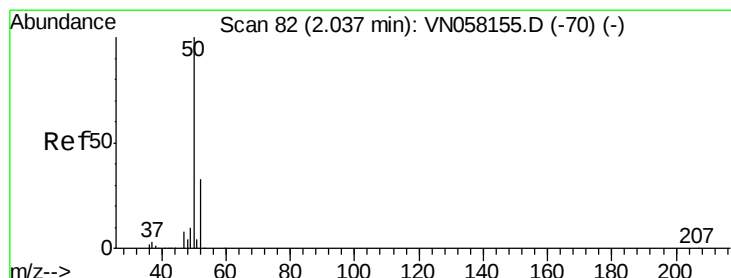
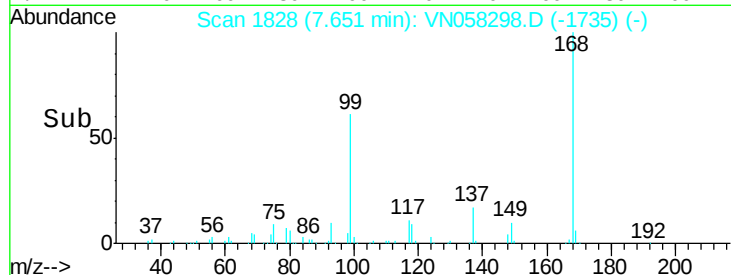
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 2.000 ug/l

RT: 2.04 min Scan# 82

Delta R.T. -0.00 min

Lab File: VN058298.D

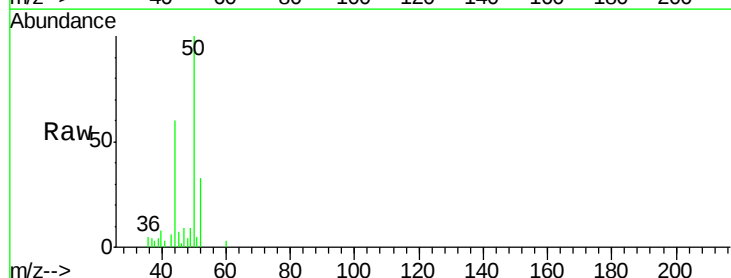
Acq: 23 Sep 2019 17:21

Tgt Ion: 50 Resp: 8923

Ion Ratio Lower Upper

50 100

52 33.4 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

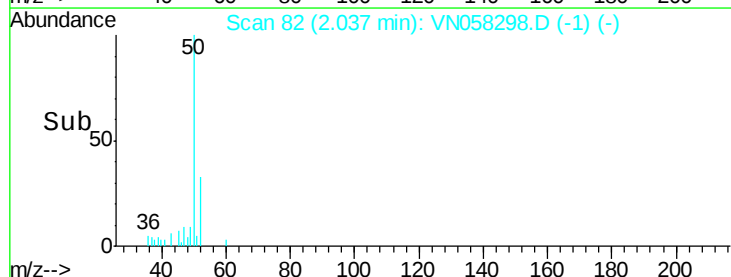
6000

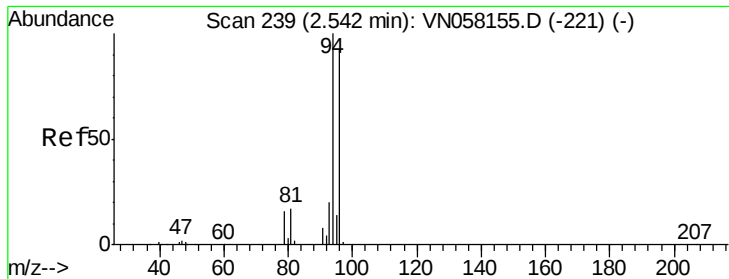
4000

2000

0

Time-->





#5

Bromomethane

Concen: 0.767 ug/l

RT: 2.55 min Scan# 242

Delta R.T. 0.01 min

Lab File: VN058298.D

Acq: 23 Sep 2019 17:21

Instrument :

MSVOA_N

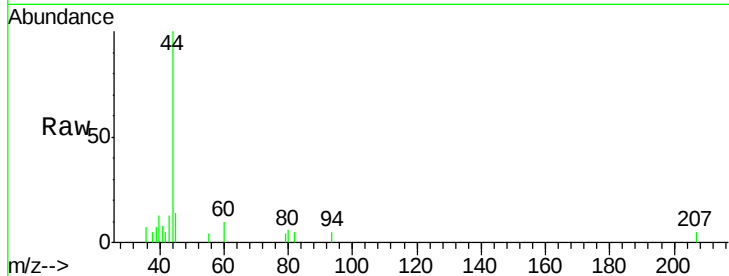
ClientSampled :

Tot Ion: 94 Resp: 78

Ion Ratio Lower Upper

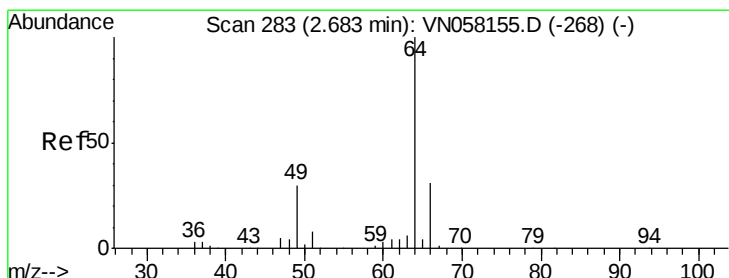
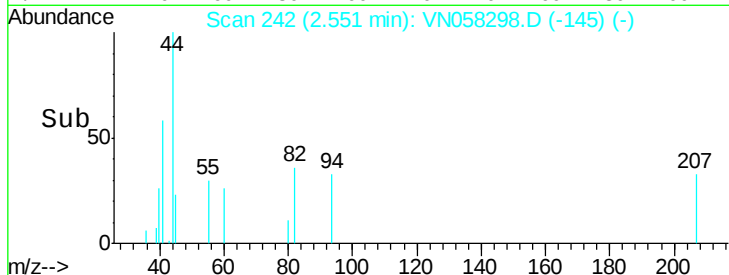
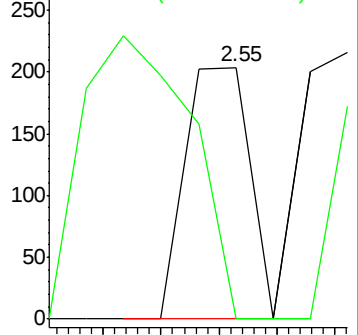
94 100

96 0.0 73.3 109.9#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: Below Cal

RT: 2.68 min Scan# 281

Delta R.T. -0.01 min

Lab File: VN058298.D

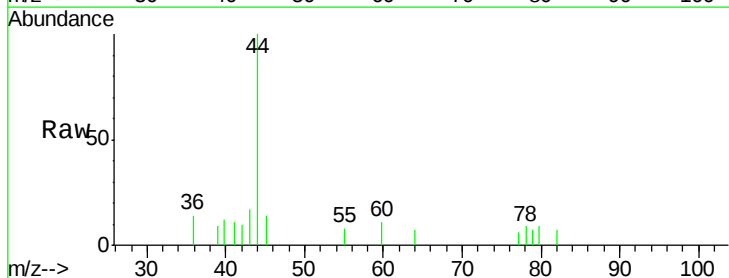
Acq: 23 Sep 2019 17:21

Tgt Ion: 64 Resp: 136

Ion Ratio Lower Upper

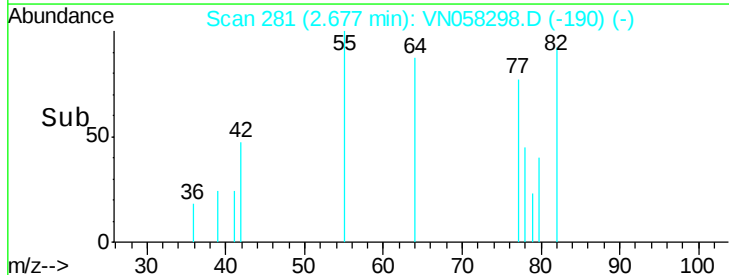
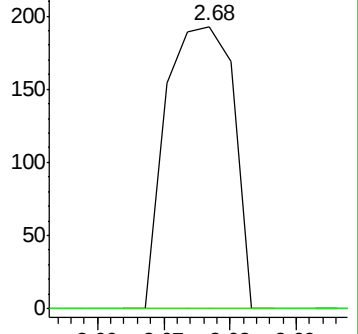
64 100

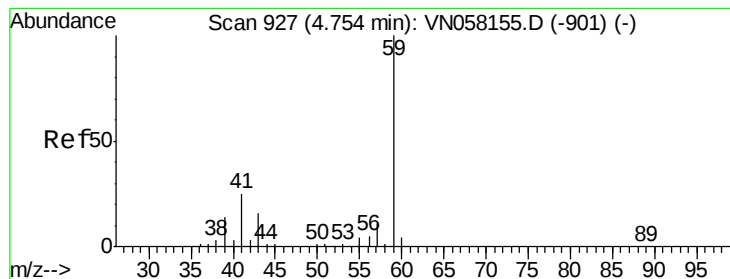
66 0.0 24.6 37.0#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0



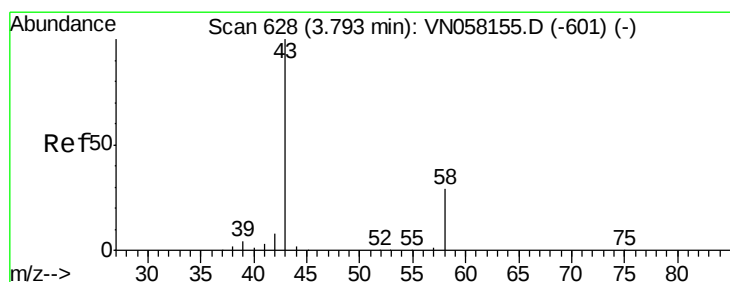
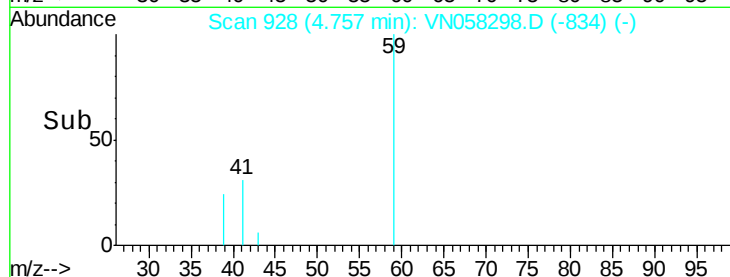
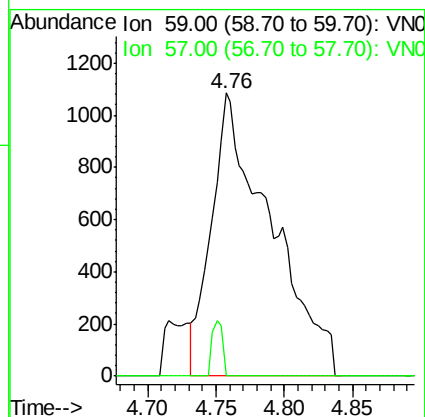
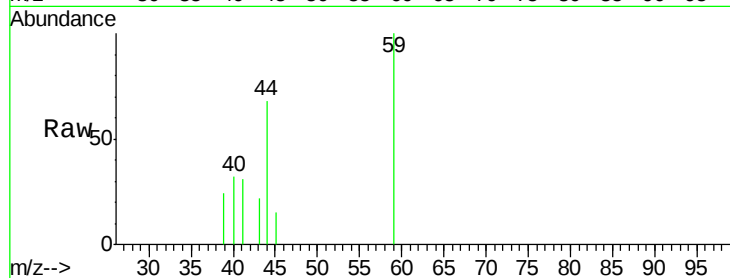


#11

Tert butyl alcohol
 Concen: 4.181 ug/l
 RT: 4.76 min Scan# 928
 Delta R.T. 0.00 min
 Lab File: VN058298.D
 Acq: 23 Sep 2019 17:21

Instrument :
 MSVOA_N
 ClientSampled :

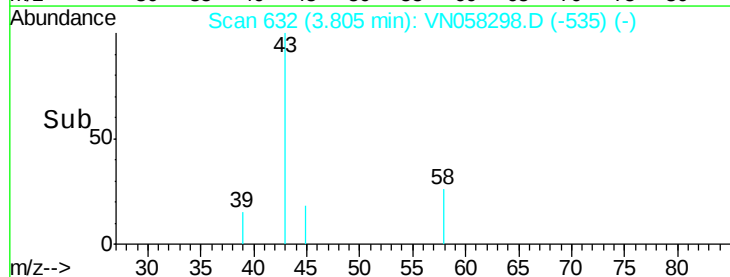
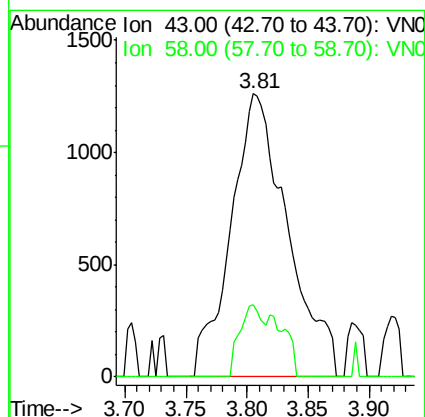
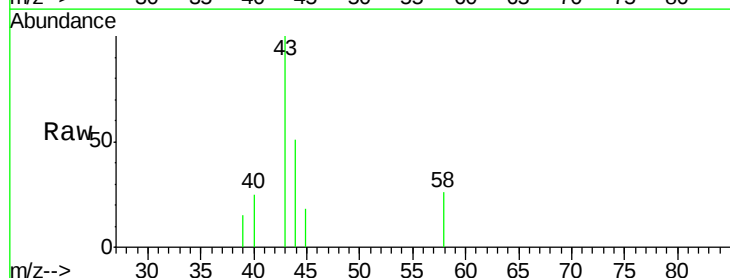
Tot Ion: 59 Resp: 3262
 Ion Ratio Lower Upper
 59 100
 57 3.4 8.6 13.0#

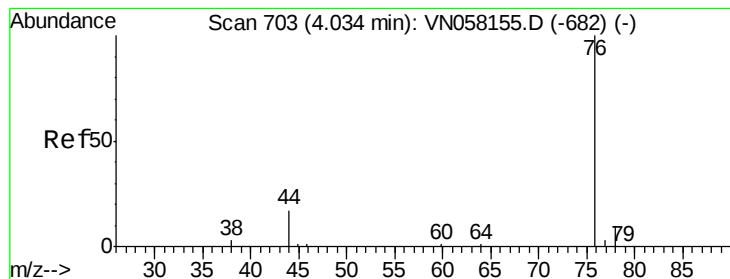


#16

Acetone
 Concen: 1.822 ug/l
 RT: 3.81 min Scan# 632
 Delta R.T. 0.01 min
 Lab File: VN058298.D
 Acq: 23 Sep 2019 17:21

Tgt Ion: 43 Resp: 4056
 Ion Ratio Lower Upper
 43 100
 58 25.7 23.4 35.2





#17

Carbon Disulfide

Concen: 0.332 ug/l

RT: 4.03 min Scan# 702

Delta R.T. -0.00 min

Lab File: VN058298.D

Acq: 23 Sep 2019 17:21

Instrument :

MSVOA_N

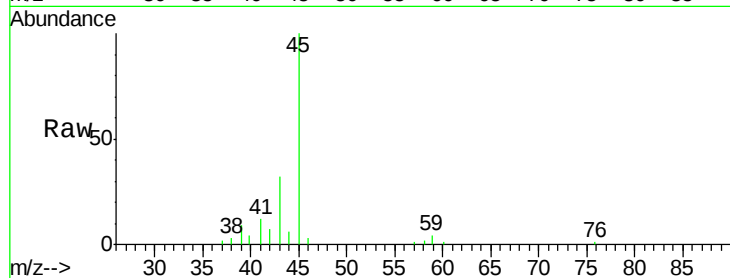
ClientSampleId :

Tot Ion: 76 Resp: 250

Ion Ratio Lower Upper

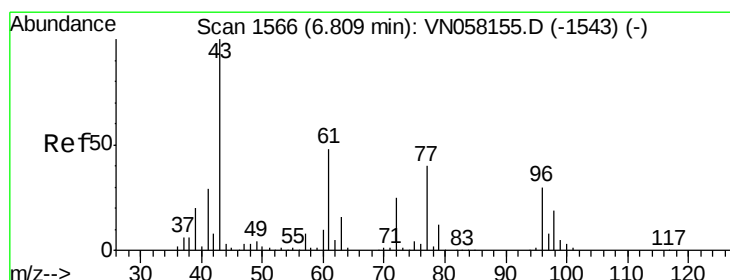
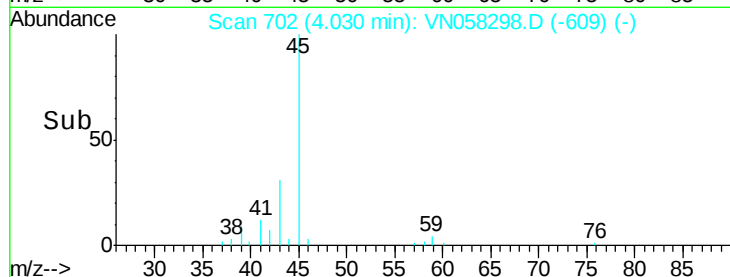
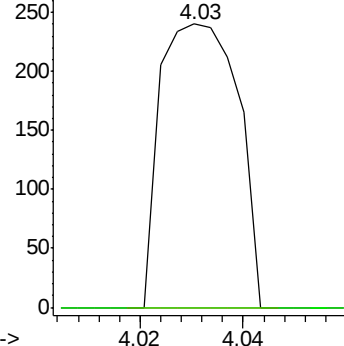
76 100

78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO



#27

cis-1,2-Dichloroethene

Concen: 0.500 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. -0.00 min

Lab File: VN058298.D

Acq: 23 Sep 2019 17:21

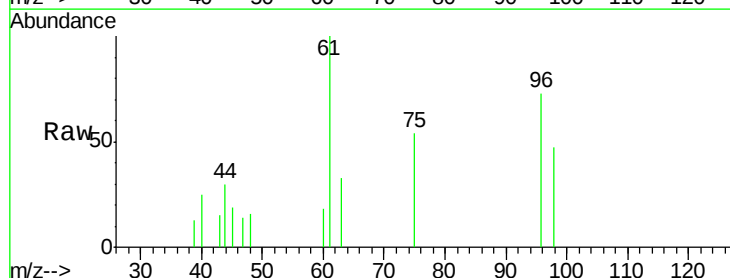
Tgt Ion: 96 Resp: 2389

Ion Ratio Lower Upper

96 100

61 158.2 0.0 319.0

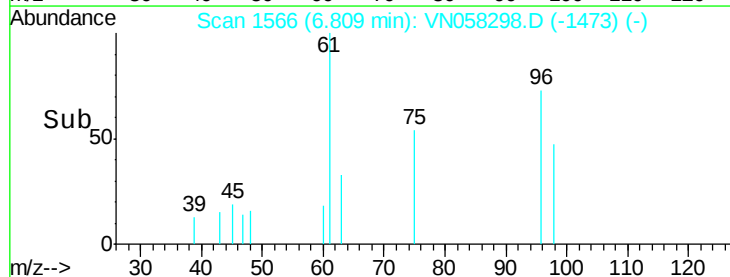
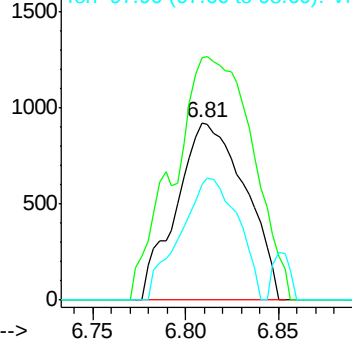
98 57.7 0.0 126.6

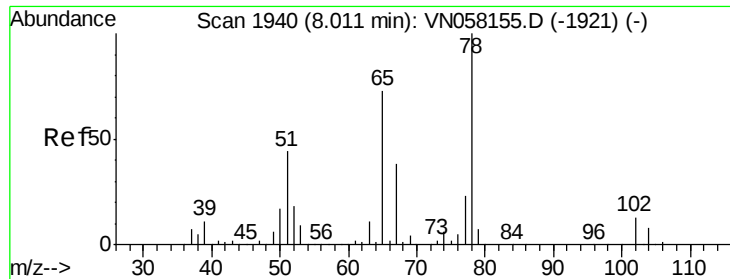


Abundance Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO

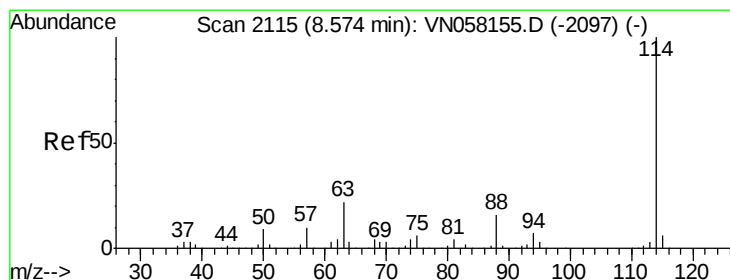
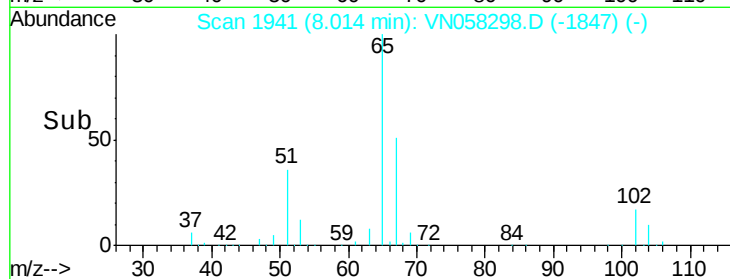
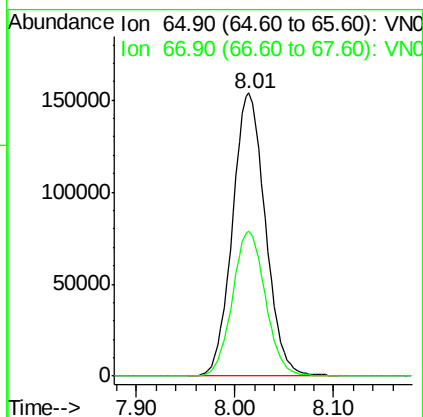
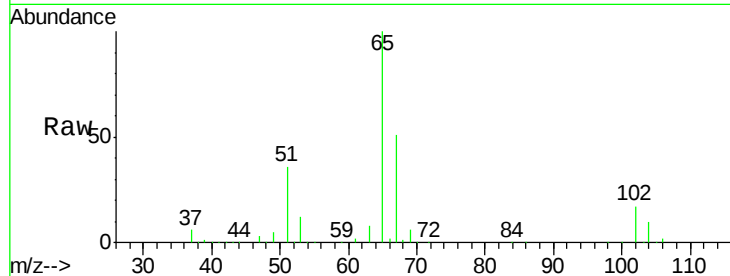




#33
 1,2-Dichloroethane-d4
 Concen: 54.339 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN058298.D
 Acq: 23 Sep 2019 17:21

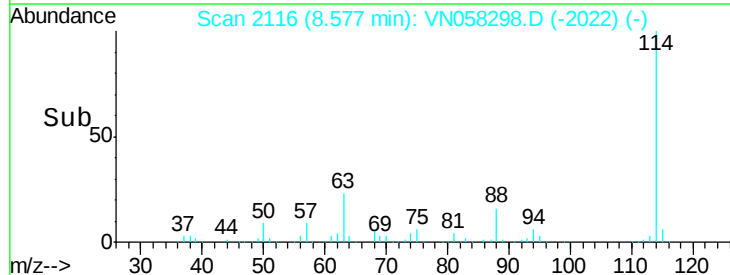
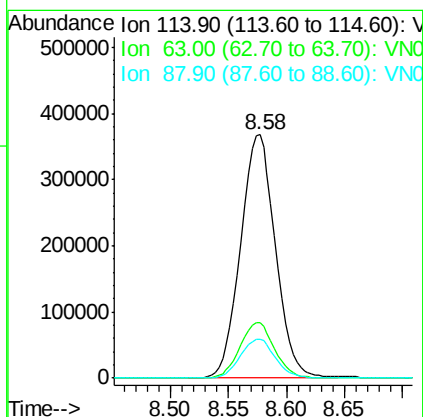
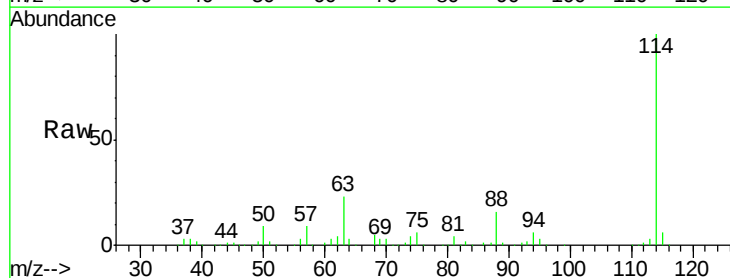
Instrument :
 MSVOA_N
 ClientSampleId :

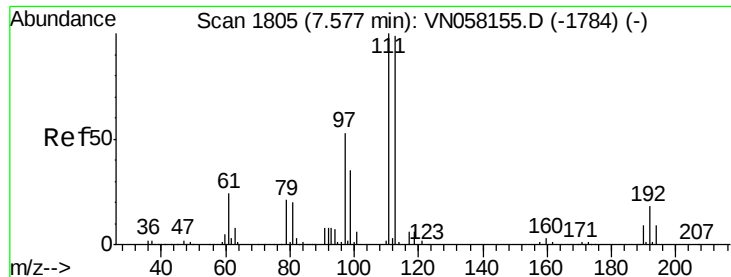
Tot Ion: 65 Resp: 356421
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN058298.D
 Acq: 23 Sep 2019 17:21

Tgt Ion: 114 Resp: 771643
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 44.2
 88 16.0 0.0 31.6





#35

Dibromofluoromethane

Concen: 51.807 ug/l

RT: 7.58 min Scan# 1805

Delta R.T. -0.00 min

Lab File: VN058298.D

Acq: 23 Sep 2019 17:21

Instrument :
MSVOA_N
ClientSampled :

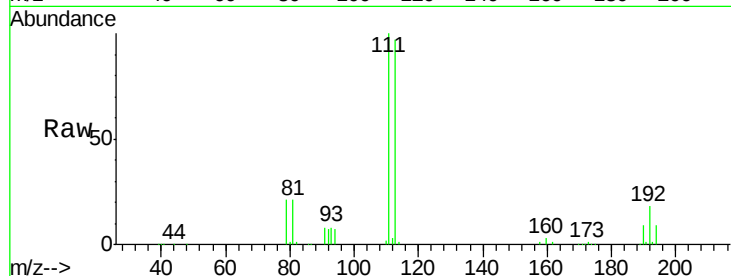
Tot Ion:113 Resp: 243024

Ion Ratio Lower Upper

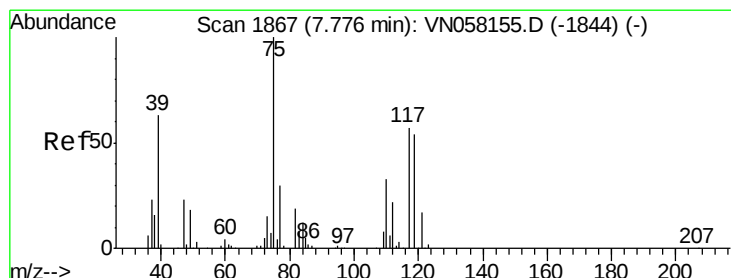
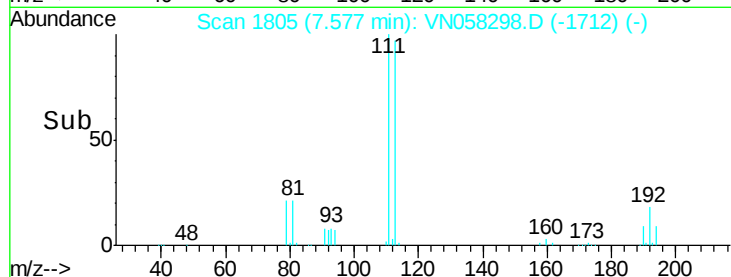
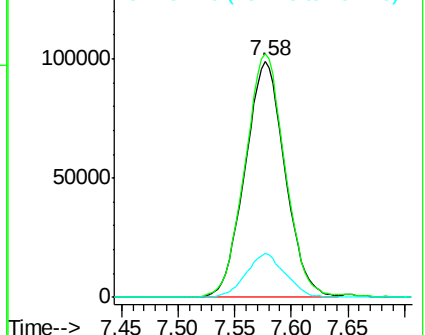
113 100

111 104.1 81.8 122.6

192 18.1 14.5 21.7



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: 7.300 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.13 min

Lab File: VN058298.D

Acq: 23 Sep 2019 17:21

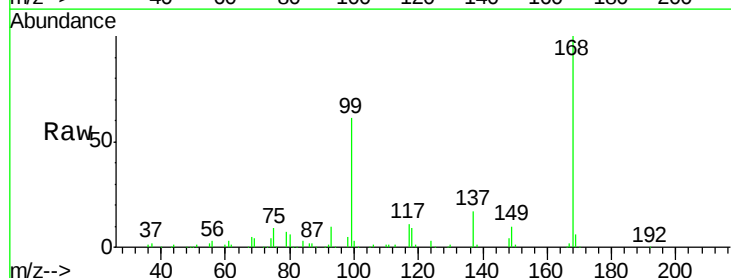
Tgt Ion: 75 Resp: 40625

Ion Ratio Lower Upper

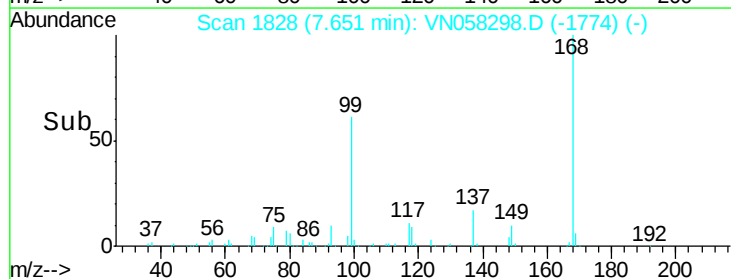
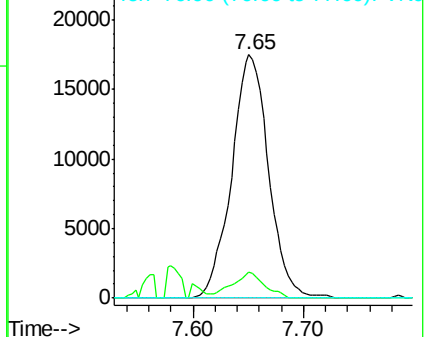
75 100

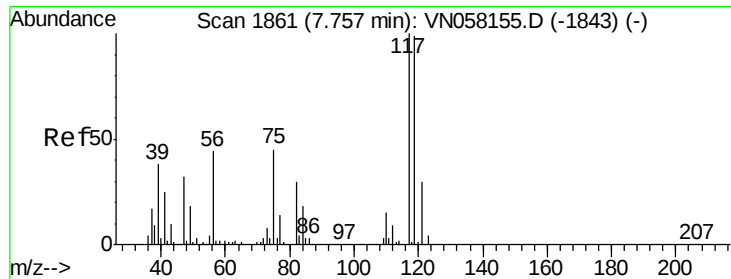
110 9.3 16.6 49.7#

77 0.0 24.3 36.5#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VNO

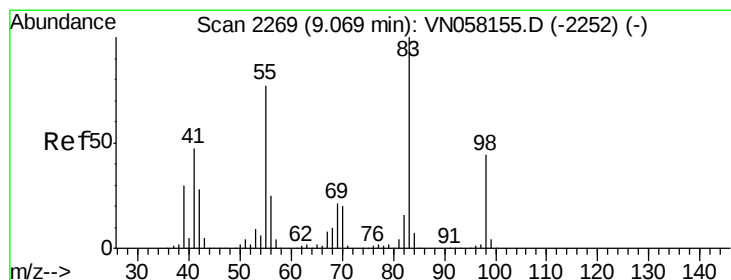
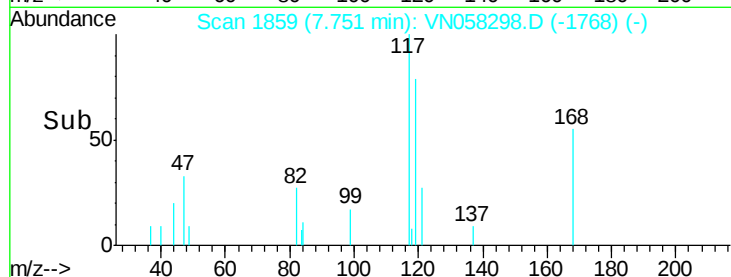
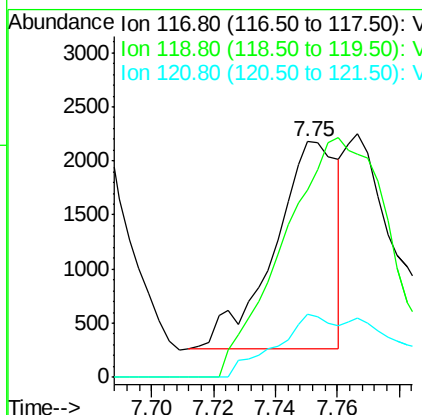
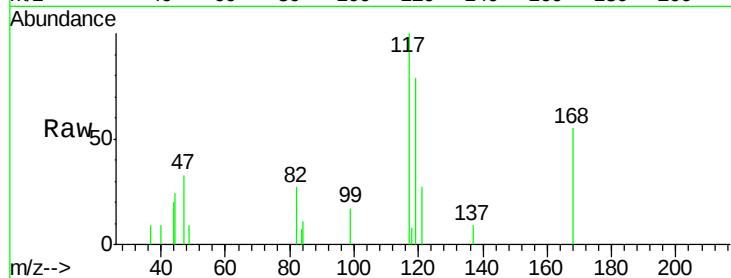




#38
Carbon Tetrachloride
Concen: 0.485 ug/l
RT: 7.75 min Scan# 1859
Delta R.T. -0.01 min
Lab File: VN058298.D
Acq: 23 Sep 2019 17:21

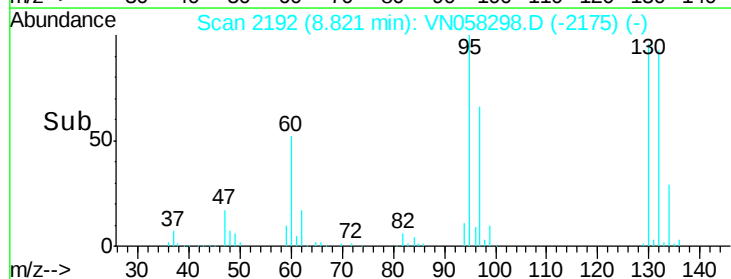
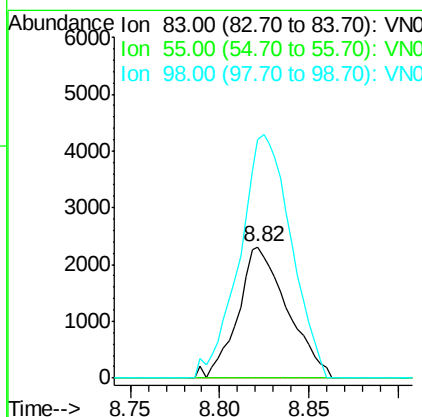
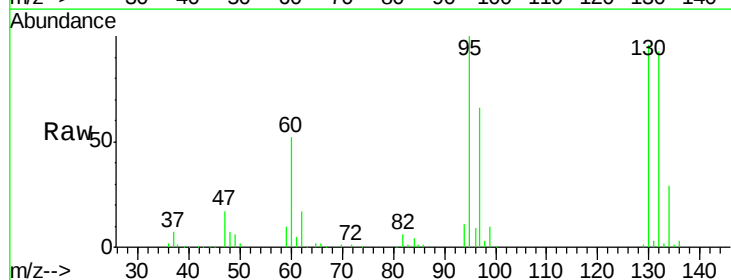
Instrument :
MSVOA_N
ClientSampled :

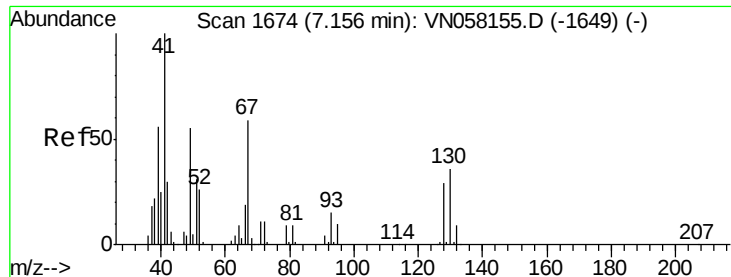
Tot Ion:117 Resp: 2713
Ion Ratio Lower Upper
117 100
119 90.6 78.6 117.8
121 30.3 24.1 36.1



#39
Methylcyclohexane
Concen: 0.902 ug/l
RT: 8.82 min Scan# 2192
Delta R.T. -0.25 min
Lab File: VN058298.D
Acq: 23 Sep 2019 17:21

Tgt Ion: 83 Resp: 4480
Ion Ratio Lower Upper
83 100
55 0.0 61.9 92.9#
98 182.0 35.4 53.2#

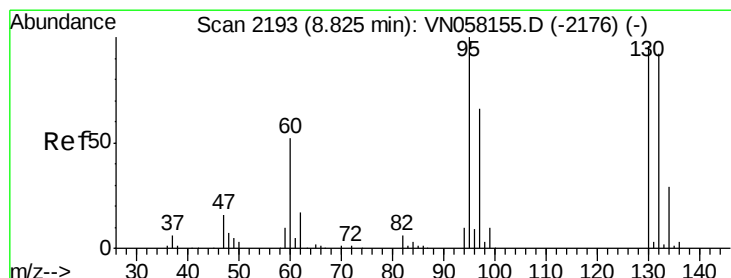
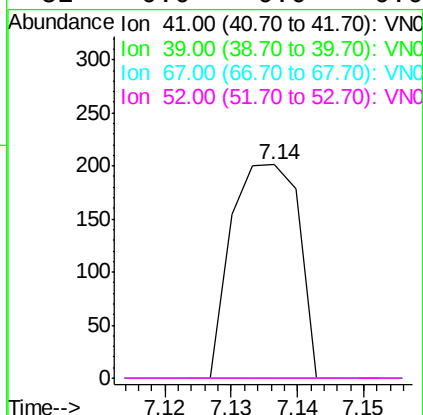
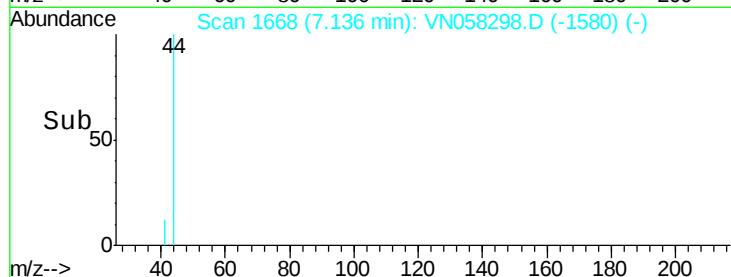
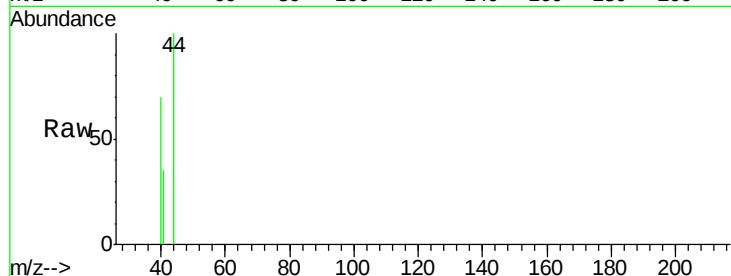




#41
Methacrylonitrile
Concen: 0.959 ug/l
RT: 7.14 min Scan# 1668
Delta R.T. -0.02 min
Lab File: VN058298.D
Acq: 23 Sep 2019 17:21

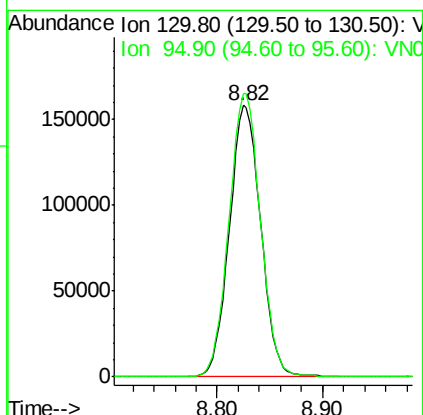
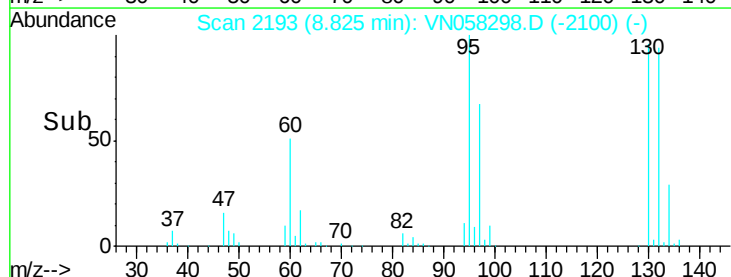
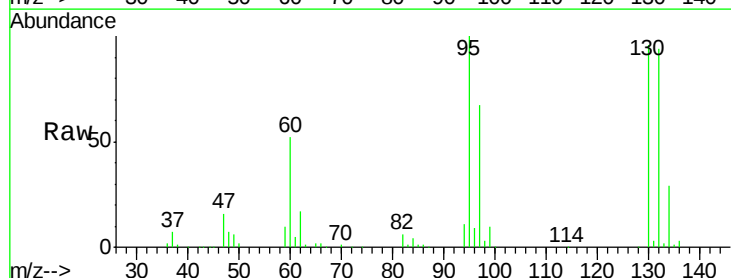
Instrument :
MSVOA_N
ClientSampled :

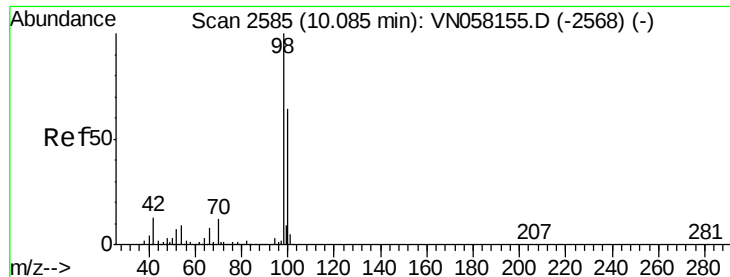
Tot Ion:	41	Resp:	142
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#44
Trichloroethene
Concen: 78.425 ug/l
RT: 8.82 min Scan# 2193
Delta R.T. -0.00 min
Lab File: VN058298.D
Acq: 23 Sep 2019 17:21

Tgt Ion:	130	Resp:	326187
Ion	Ratio	Lower	Upper
130	100		
95	104.2	0.0	207.8





#50

Toluene-d8

Concen: 54.315 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN058298.D

Acq: 23 Sep 2019 17:21

Instrument :

MSVOA_N

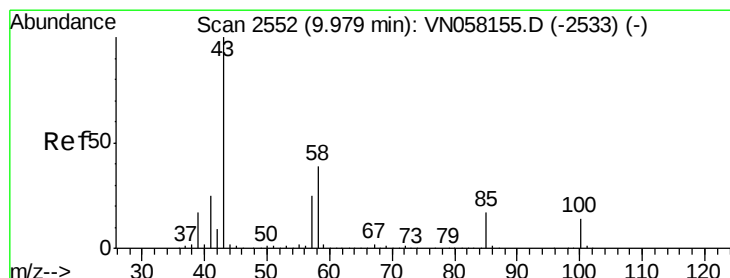
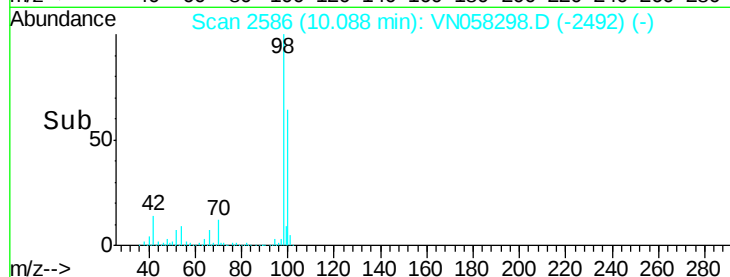
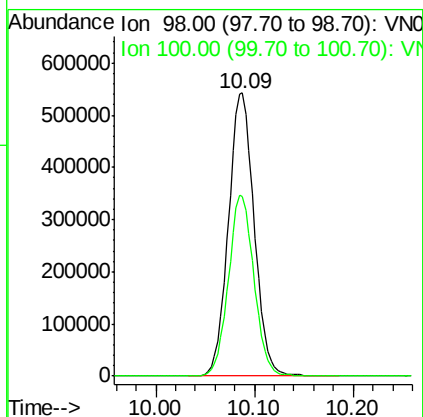
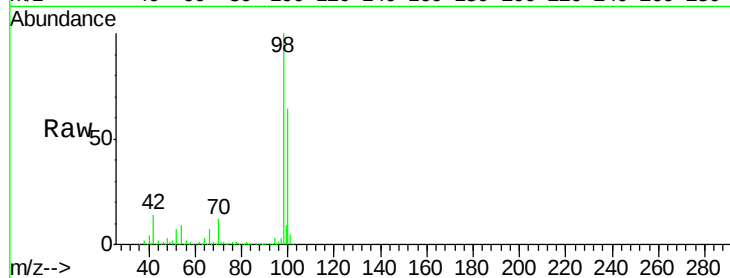
ClientSampled :

Tot Ion: 98 Resp: 992707

Ion Ratio Lower Upper

98 100

100 63.4 51.1 76.7



#51

4-Methyl-2-Pentanone

Concen: 3.886 ug/l

RT: 9.92 min Scan# 2535

Delta R.T. -0.05 min

Lab File: VN058298.D

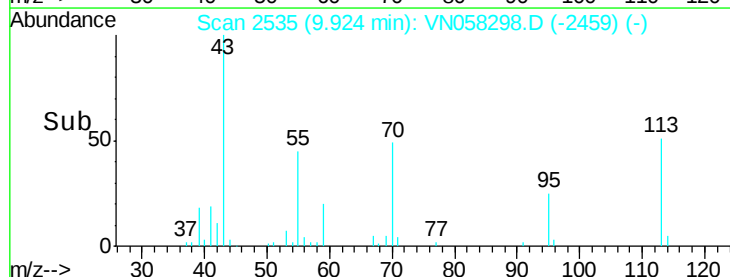
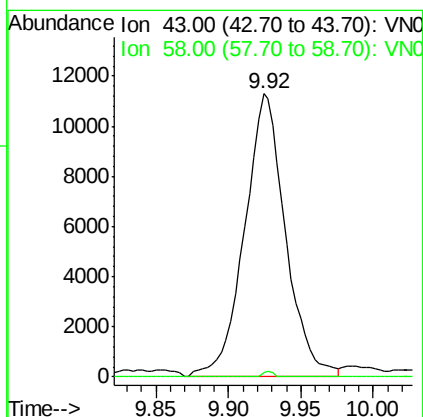
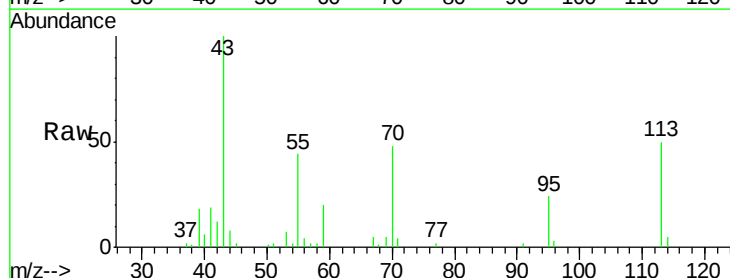
Acq: 23 Sep 2019 17:21

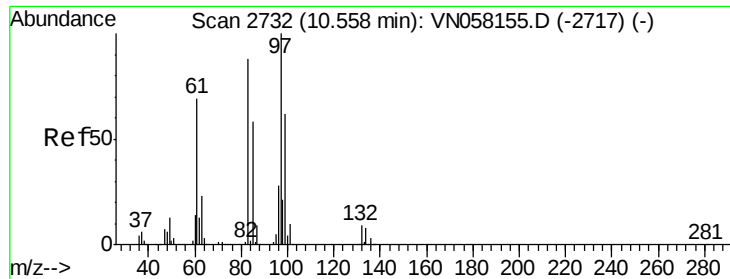
Tgt Ion: 43 Resp: 22264

Ion Ratio Lower Upper

43 100

58 0.0 30.2 45.4#





#55

1,1,2-Trichloroethane

Concen: 0.417 ug/l

RT: 10.56 min Scan# 2734

Delta R.T. 0.01 min

Lab File: VN058298.D

Acq: 23 Sep 2019 17:21

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 97 Resp: 1969

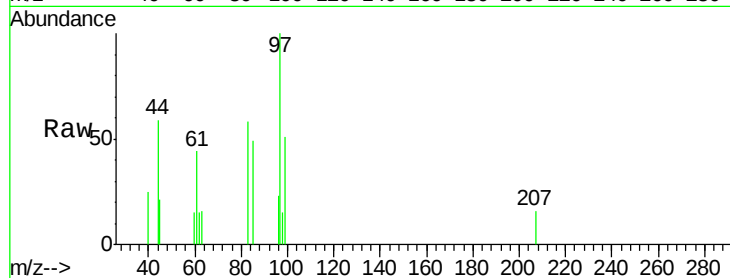
Ion Ratio Lower Upper

97 100

83 58.3 70.4 105.6#

85 48.5 46.8 70.2

99 50.9 49.9 74.9

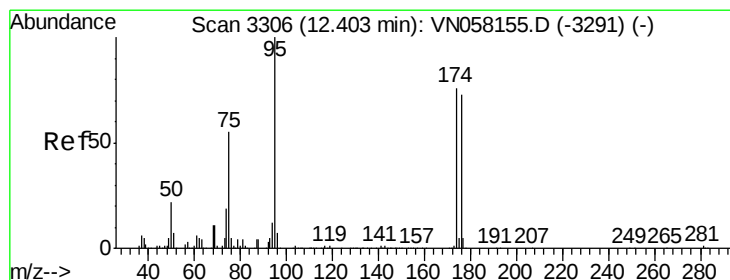
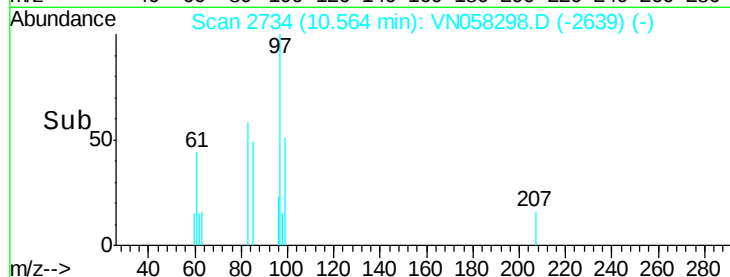
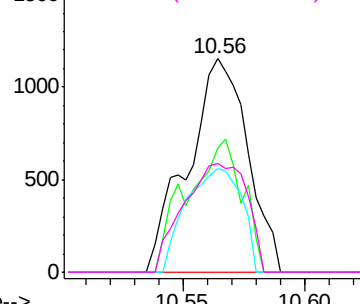


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0



#62

4-Bromofluorobenzene

Concen: 44.893 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058298.D

Acq: 23 Sep 2019 17:21

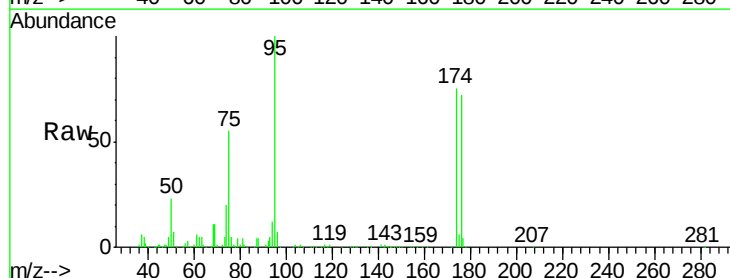
Tgt Ion: 95 Resp: 304790

Ion Ratio Lower Upper

95 100

174 75.7 0.0 152.2

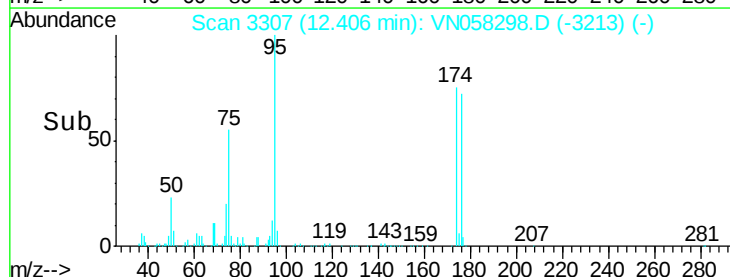
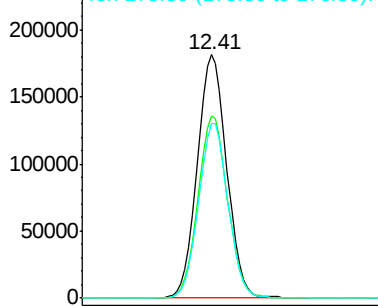
176 71.9 0.0 148.0

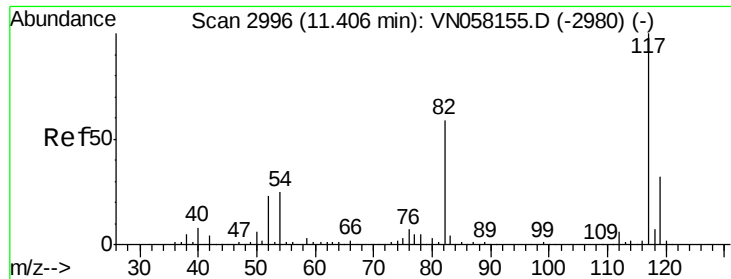


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

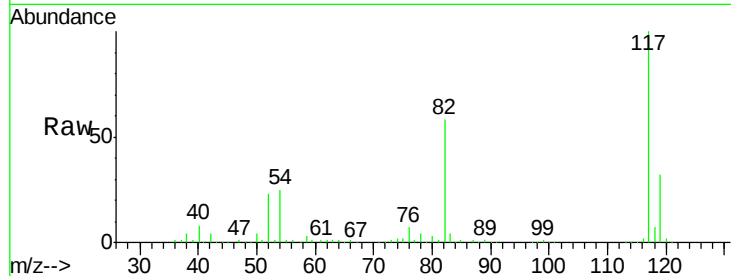




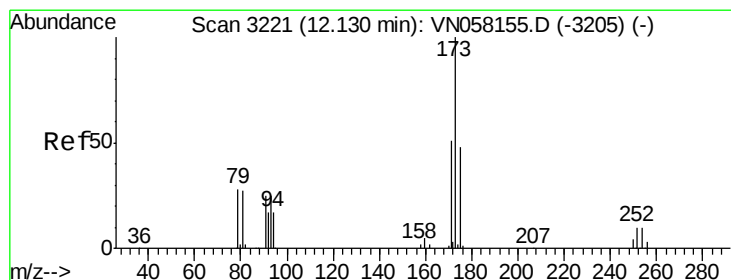
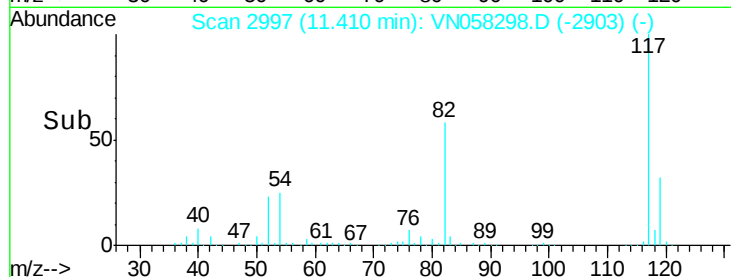
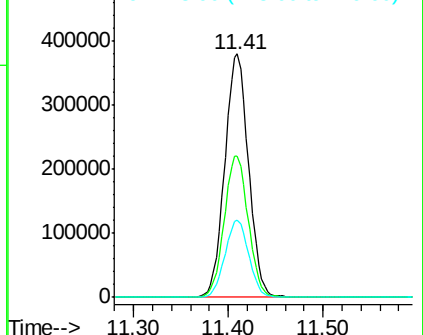
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN058298.D
Acq: 23 Sep 2019 17:21

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 660683
Ion Ratio Lower Upper
117 100
82 58.0 46.9 70.3
119 31.8 25.3 37.9

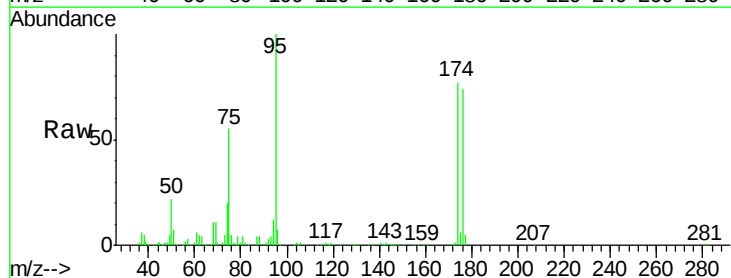


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

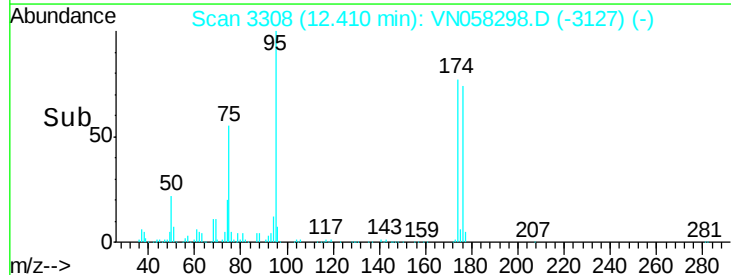
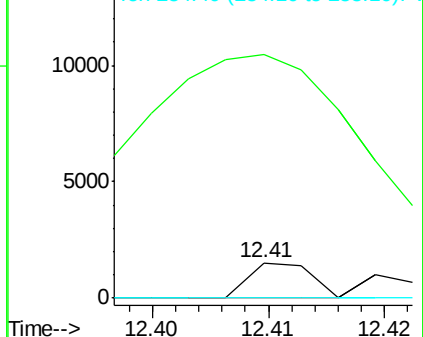


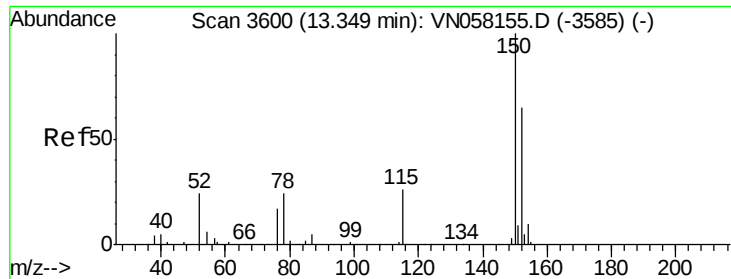
#71
Bromoform
Concen: 3.761 ug/l
RT: 12.41 min Scan# 3308
Delta R.T. 0.28 min
Lab File: VN058298.D
Acq: 23 Sep 2019 17:21

Tgt Ion:173 Resp: 558
Ion Ratio Lower Upper
173 100
175 2551.6 24.2 72.6#
254 0.0 0.1 0.1#



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN058298.D

Acq: 23 Sep 2019 17:21

Instrument :

MSVOA_N

ClientSampleId :

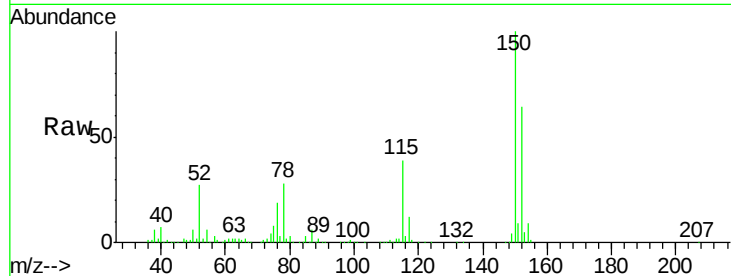
Tot Ion:152 Resp: 254068

Ion Ratio Lower Upper

152 100

115 62.4 30.1 90.3

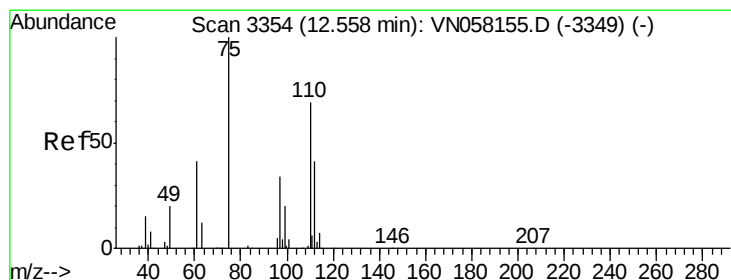
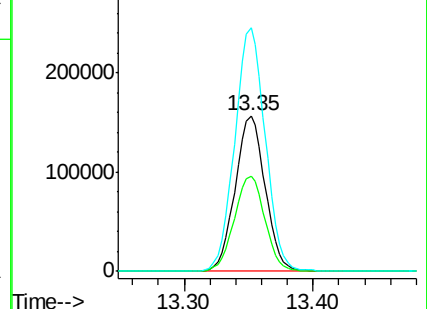
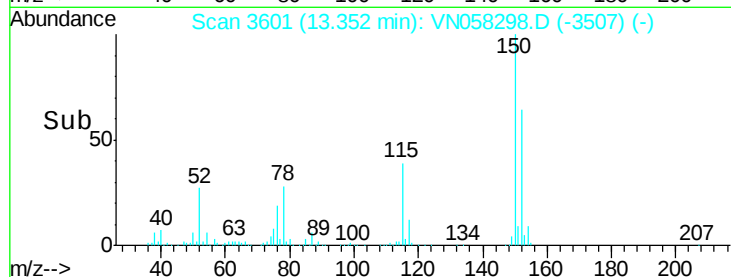
150 159.3 0.0 346.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 37.457 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058298.D

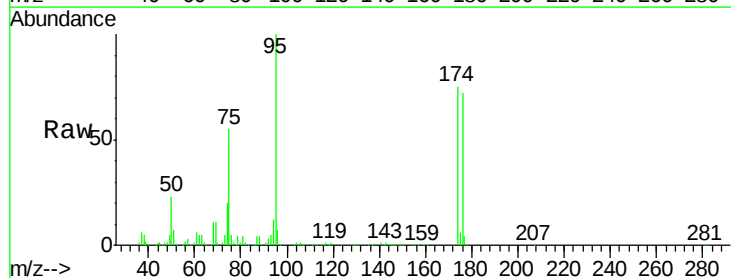
Acq: 23 Sep 2019 17:21

Tgt Ion: 75 Resp: 170319

Ion Ratio Lower Upper

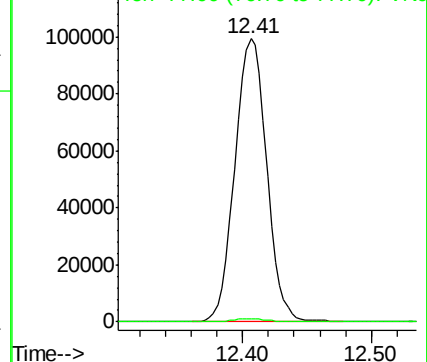
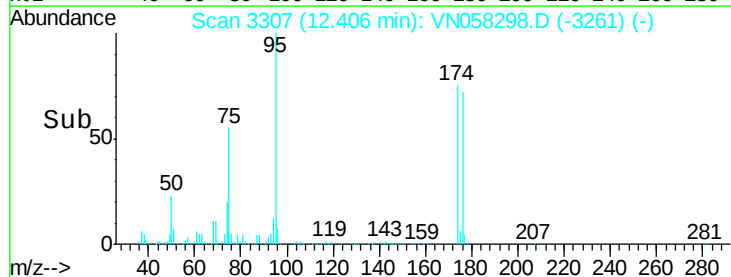
75 100

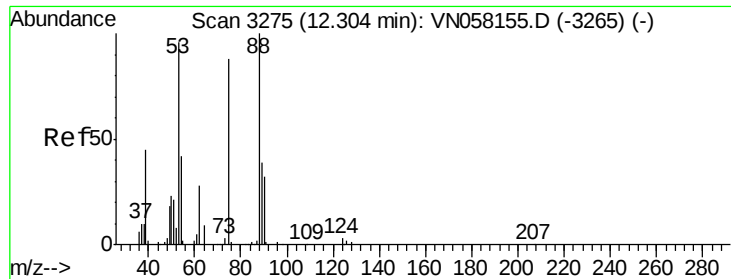
77 1.2 0.0 0.0#



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: 104.375 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058298.D

Acq: 23 Sep 2019 17:21

Instrument :

MSVOA_N

ClientSampleId :

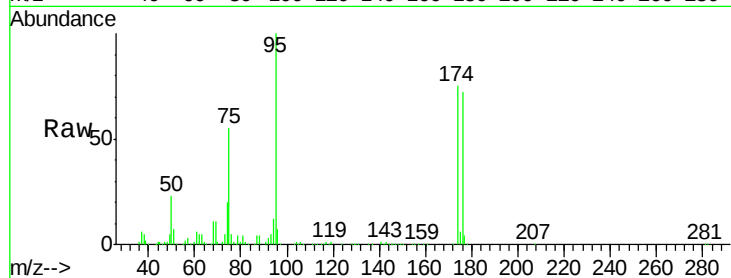
Tot Ion: 75 Resp: 170319

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

