

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092319\
 Data File : VN058329.D
 Acq On : 24 Sep 2019 5:56
 Operator : JC/SP
 Sample : K5008-11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 59 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TWP-5

Quant Time: Sep 24 07:12:21 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	466200	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	775269	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	658450	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	261128	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	357064	54.99	ug/l	0.00
Spiked Amount			Recovery	=	109.98%	
35) Dibromofluoromethane	7.57	113	241981	51.34	ug/l	0.00
Spiked Amount			Recovery	=	102.68%	
50) Toluene-d8	10.08	98	971789	52.92	ug/l	0.00
Spiked Amount			Recovery	=	105.84%	
62) 4-Bromofluorobenzene	12.41	95	301920	44.26	ug/l	0.00
Spiked Amount			Recovery	=	88.52%	

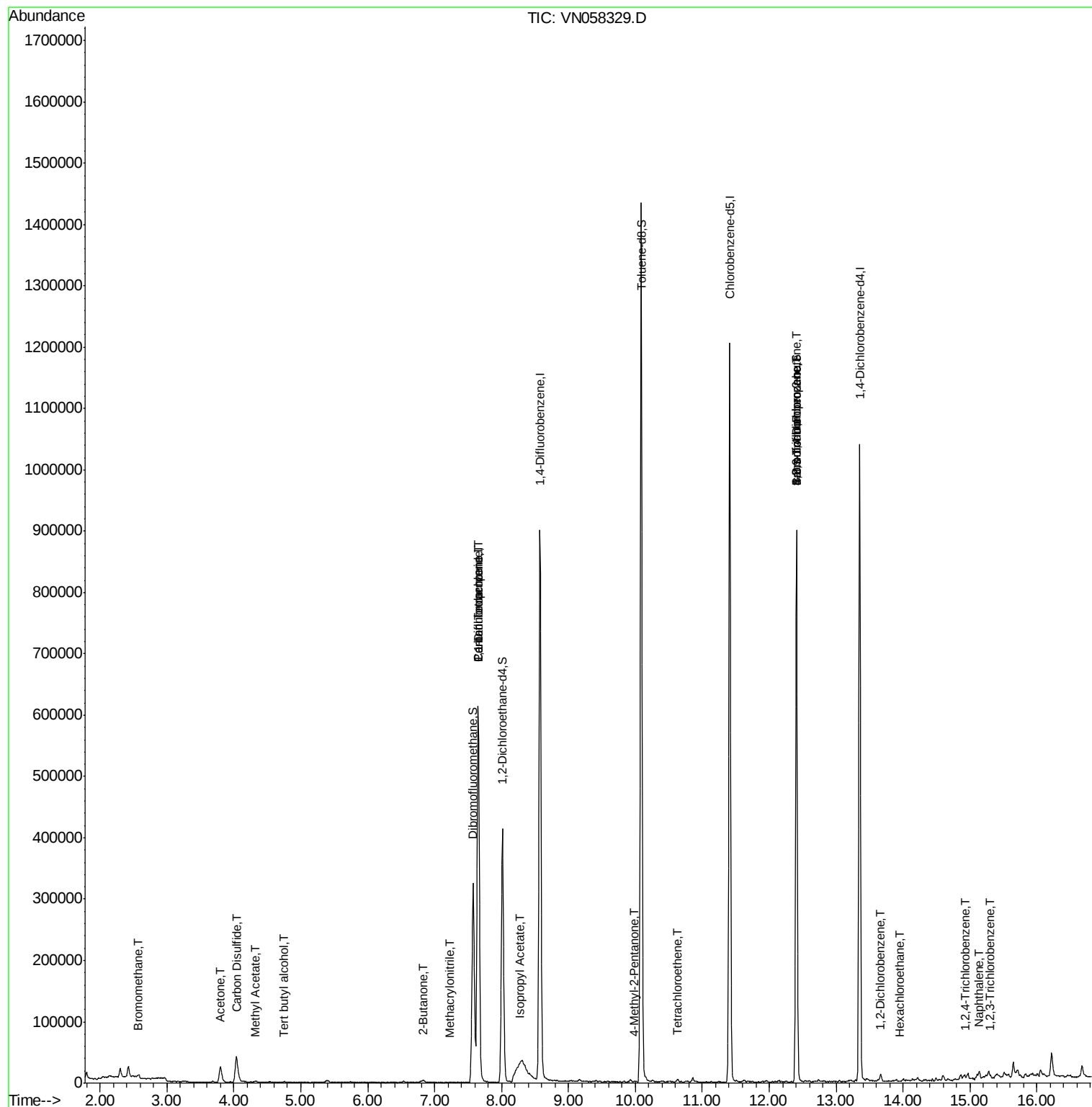
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1297	Below Cal	#	83
4) Vinyl Chloride	2.17	62	31	Below Cal	#	43
5) Bromomethane	2.57	94	822	1.197	ug/l	86
6) Chloroethane	2.70	64	267	Below Cal	#	44
11) Tert butyl alcohol	4.75	59	1185	1.534	ug/l	96
16) Acetone	3.80	43	44671	20.267	ug/l	99
17) Carbon Disulfide	4.04	76	4469	1.375	ug/l	99
18) Methyl Acetate	4.31	43	2117	0.365	ug/l #	85
20) Methylene Chloride	4.52	84	510	Below Cal	#	45
25) 2-Butanone	6.83	43	4070	1.355	ug/l #	89
31) Cyclohexane	7.65	56	12049	Below Cal	#	28
36) 1,1-Dichloropropene	7.65	75	40886	7.313	ug/l #	51
38) Carbon Tetrachloride	7.65	117	47974	8.536	ug/l #	14
41) Methacrylonitrile	7.22	41	178	0.971	ug/l #	100
43) Isopropyl Acetate	8.26	43	44597	4.116	ug/l #	57
51) 4-Methyl-2-Pentanone	9.98	43	1356	0.236	ug/l #	37
64) Tetrachloroethene	10.63	164	974	0.303	ug/l #	79
71) Bromoform	12.40	173	256	3.671	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	165795	35.477	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	165795	99.162	ug/l #	5
90) Hexachloroethane	13.96	117	158	2.882	ug/l #	12
91) 1,2-Dichlorobenzene	13.67	146	3874	0.514	ug/l	92
93) 1,2,4-Trichlorobenzene	14.92	180	1294	0.269	ug/l #	9
95) Naphthalene	15.14	128	10097	0.810	ug/l	99
96) 1,2,3-Trichlorobenzene	15.30	180	1723	0.379	ug/l #	73

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN092319\
Data File : VN058329.D
Acq On : 24 Sep 2019 5:56
Operator : JC/SP
Sample : K5008-11
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 59 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TWP-5

Quant Time: Sep 24 07:12:21 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
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: VN058329.D

Acq: 24 Sep 2019 5:56

Instrument :

MSVOA_N

ClientSampled :

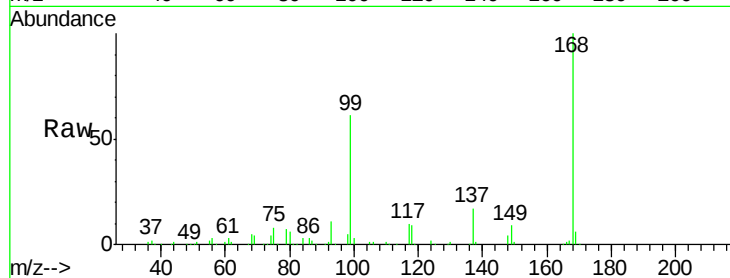
TWP-5

Tot Ion:168 Resp: 466200

Ion Ratio Lower Upper

168 100

99 61.2 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

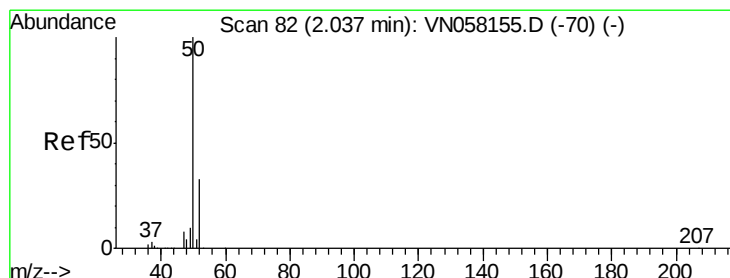
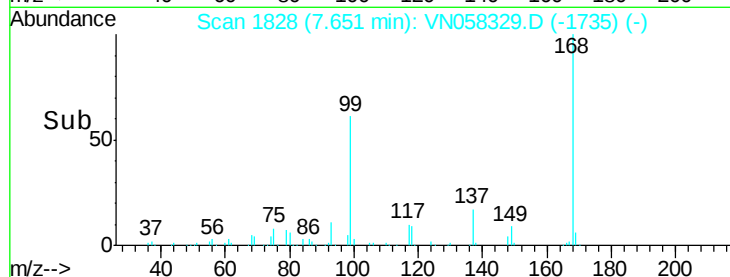
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN058329.D

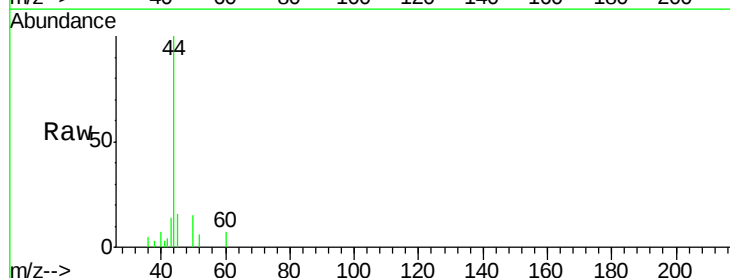
Acq: 24 Sep 2019 5:56

Tgt Ion: 50 Resp: 1297

Ion Ratio Lower Upper

50 100

52 42.7 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

1000

800

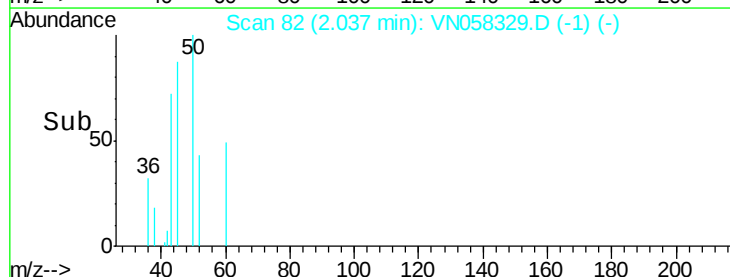
600

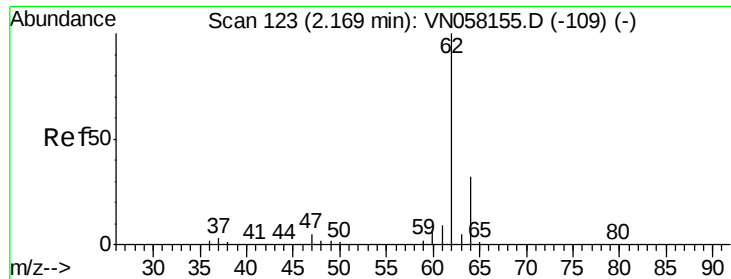
400

200

0

Time-->





#4

Vinyl Chloride

Concen: Below Cal

RT: 2.17 min Scan# 122

Delta R.T. -0.00 min

Lab File: VN058329.D

Acq: 24 Sep 2019 5:56

Instrument :

MSVOA_N

ClientSampled :

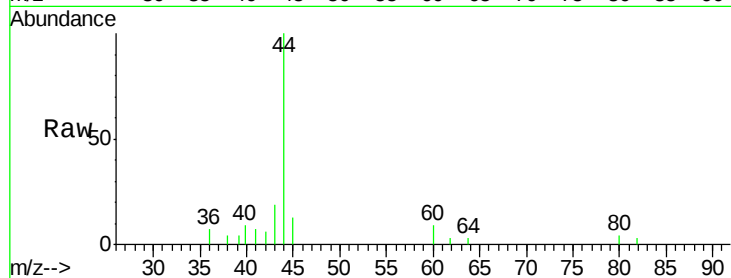
TWP-5

Tot Ion: 62 Resp: 31

Ion Ratio Lower Upper

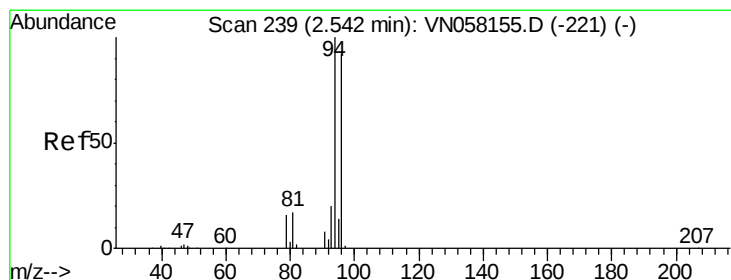
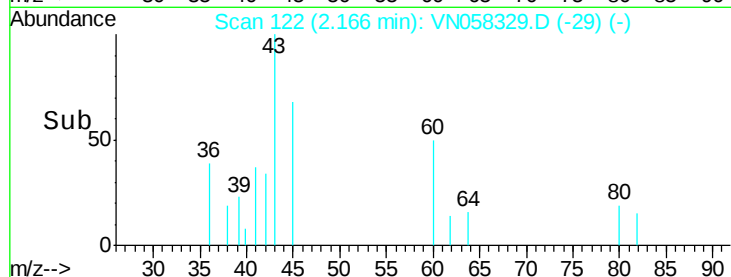
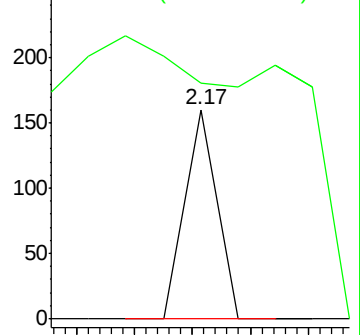
62 100

64 0.0 25.4 38.2#



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC



#5

Bromomethane

Concen: 1.197 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.03 min

Lab File: VN058329.D

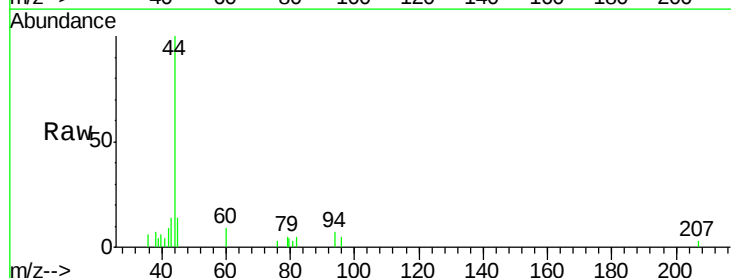
Acq: 24 Sep 2019 5:56

Tgt Ion: 94 Resp: 822

Ion Ratio Lower Upper

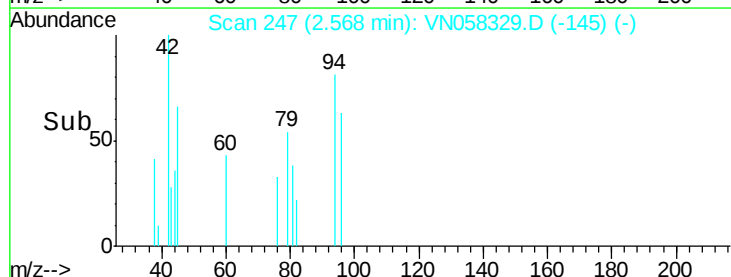
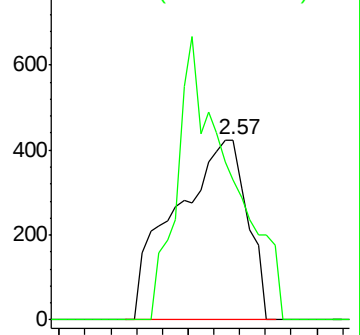
94 100

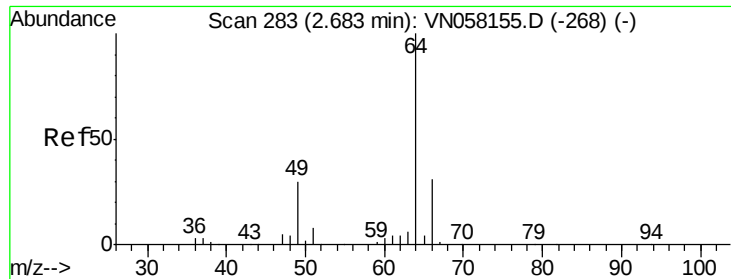
96 77.8 73.3 109.9



Abundance Ion 93.90 (93.60 to 94.60): VNC

Ion 95.90 (95.60 to 96.60): VNC





#6

Chloroethane

Concen: Below Cal

RT: 2.70 min Scan# 288

Delta R.T. 0.02 min

Lab File: VN058329.D

Acq: 24 Sep 2019 5:56

Instrument :

MSVOA_N

ClientSampled :

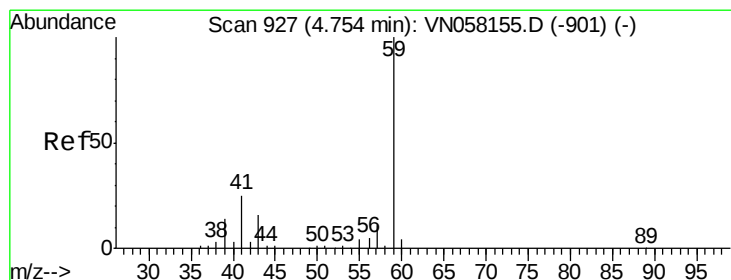
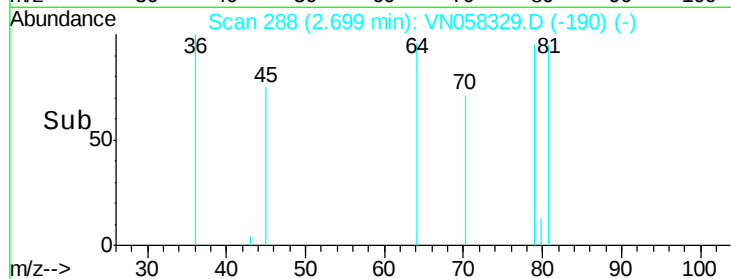
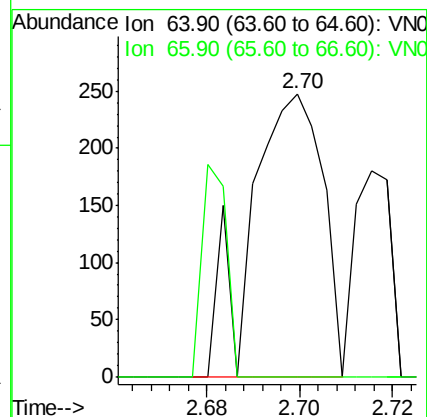
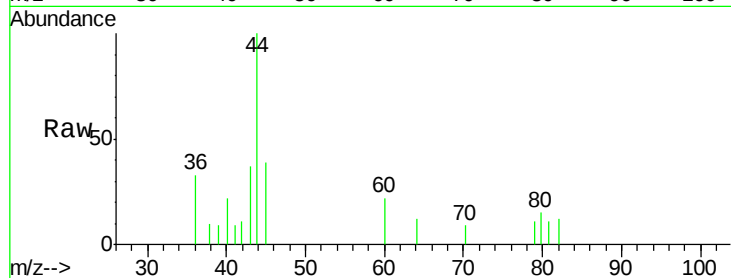
TWP-5

Tot Ion: 64 Resp: 267

Ion Ratio Lower Upper

64 100

66 0.0 24.6 37.0#



#11

Tert butyl alcohol

Concen: 1.534 ug/l

RT: 4.75 min Scan# 927

Delta R.T. 0.00 min

Lab File: VN058329.D

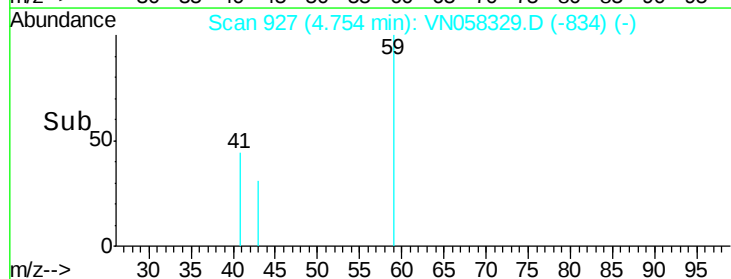
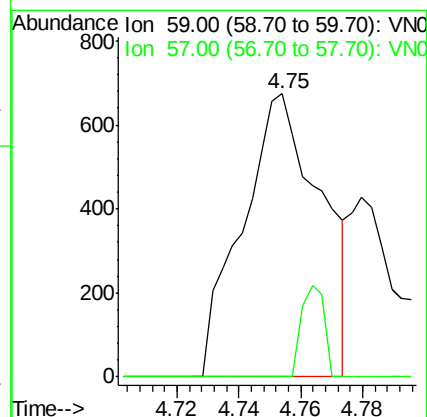
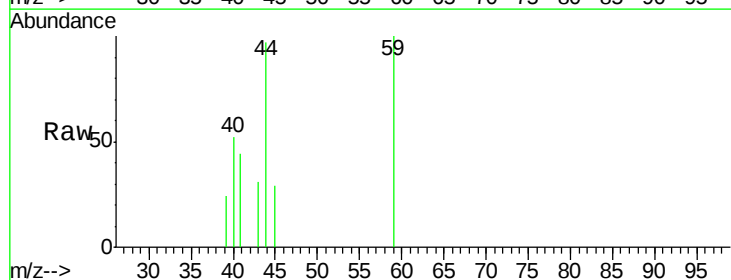
Acq: 24 Sep 2019 5:56

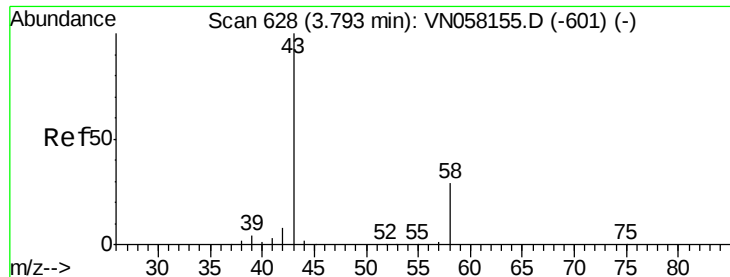
Tgt Ion: 59 Resp: 1185

Ion Ratio Lower Upper

59 100

57 9.5 8.6 13.0





#16

Acetone

Concen: 20.267 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN058329.D

Acq: 24 Sep 2019 5:56

Instrument :

MSVOA_N

ClientSampled :

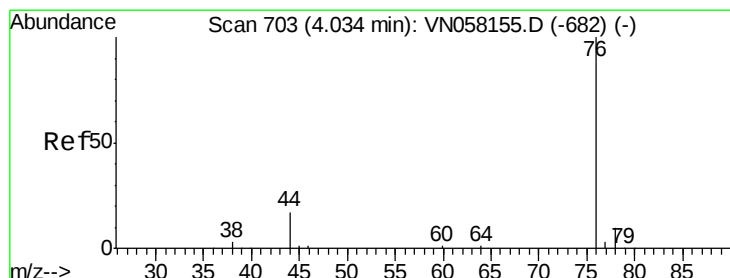
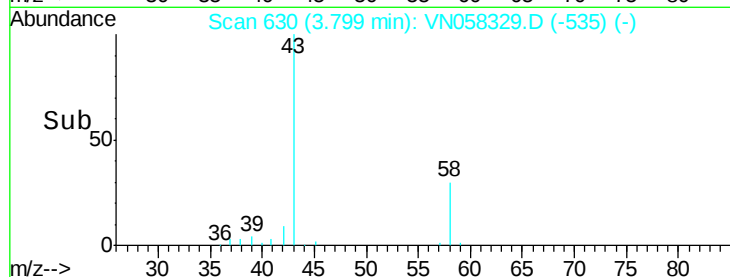
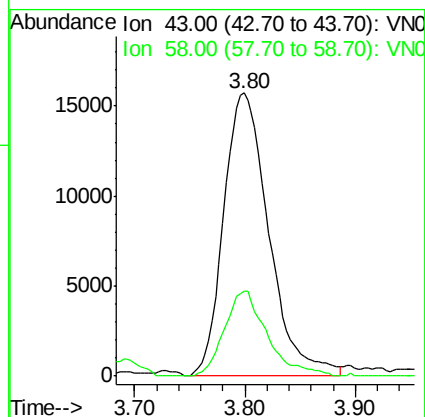
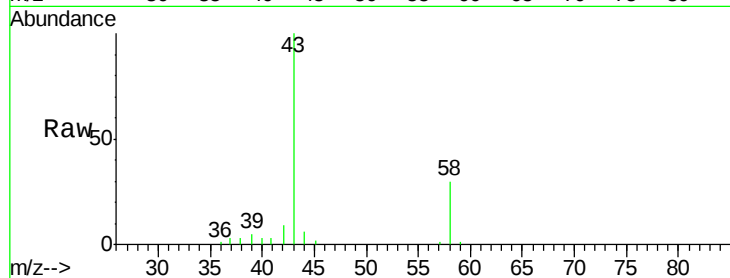
TWP-5

Tot Ion: 43 Resp: 44671

Ion Ratio Lower Upper

43 100

58 30.0 23.4 35.2



#17

Carbon Disulfide

Concen: 1.375 ug/l

RT: 4.04 min Scan# 704

Delta R.T. 0.00 min

Lab File: VN058329.D

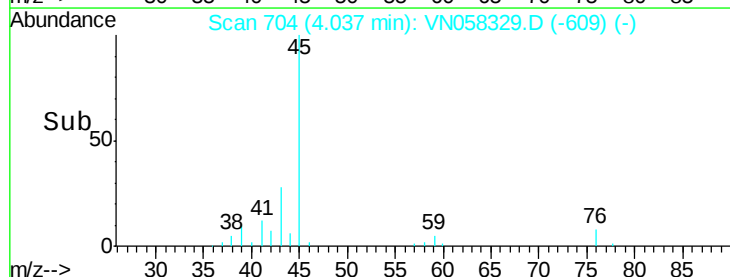
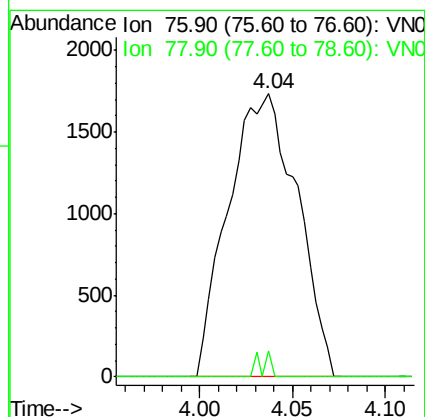
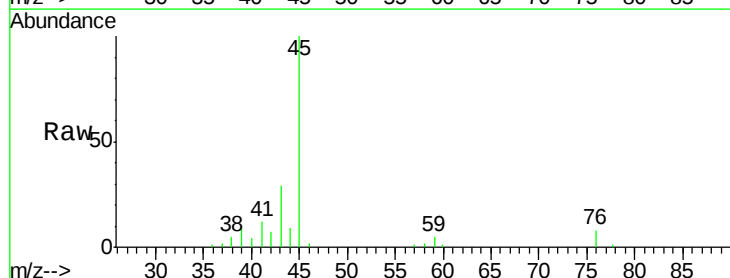
Acq: 24 Sep 2019 5:56

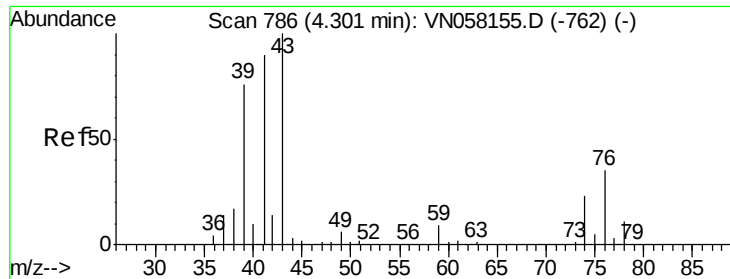
Tgt Ion: 76 Resp: 4469

Ion Ratio Lower Upper

76 100

78 9.4 7.7 11.5

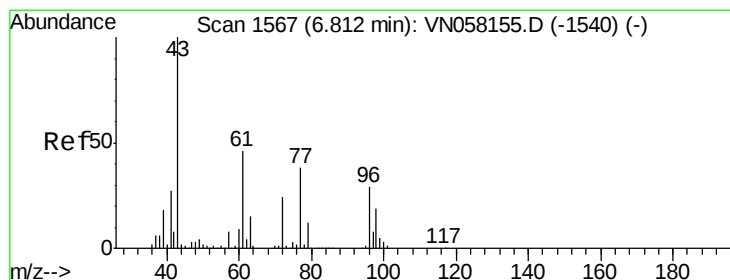
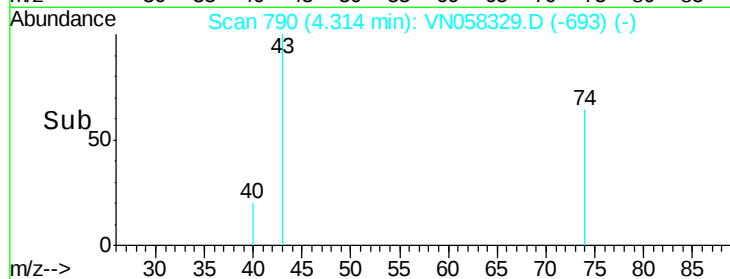
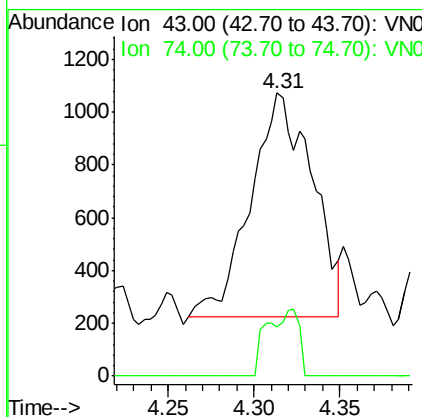
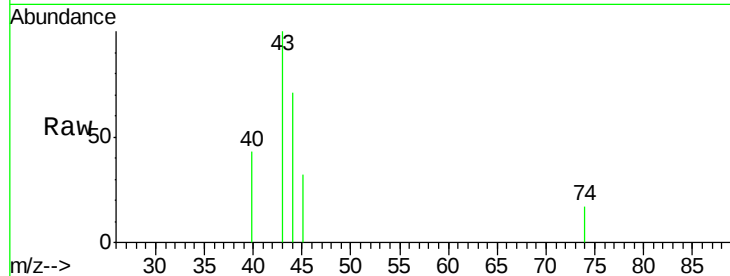




#18
Methvl Acetate
Concen: 0.365 ug/l
RT: 4.31 min Scan# 790
Delta R.T. 0.01 min
Lab File: VN058329.D
Acq: 24 Sep 2019 5:56

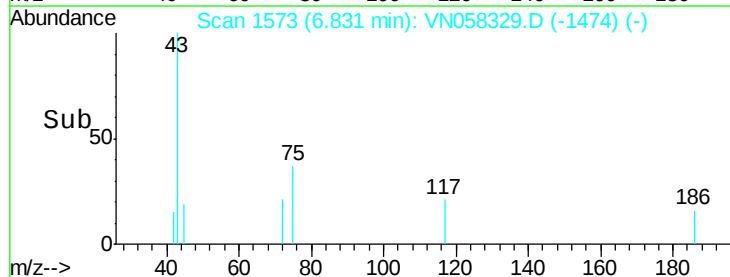
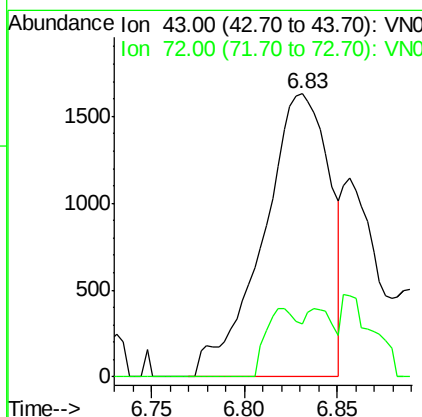
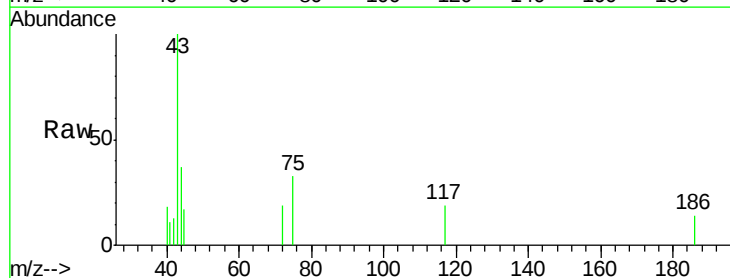
Instrument :
MSVOA_N
ClientSampled :
TWP-5

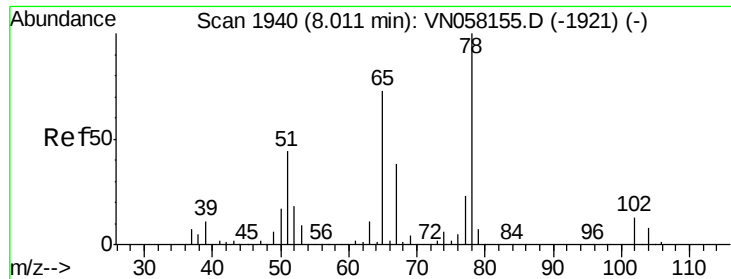
Tot Ion: 43 Resp: 2117
Ion Ratio Lower Upper
43 100
74 15.1 18.0 27.0#



#25
2-Butanone
Concen: 1.355 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.02 min
Lab File: VN058329.D
Acq: 24 Sep 2019 5:56

Tgt Ion: 43 Resp: 4070
Ion Ratio Lower Upper
43 100
72 18.7 19.5 29.3#

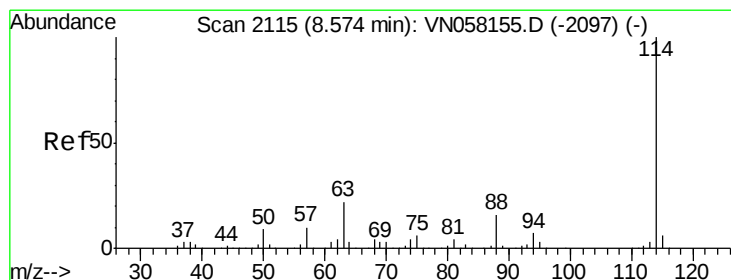
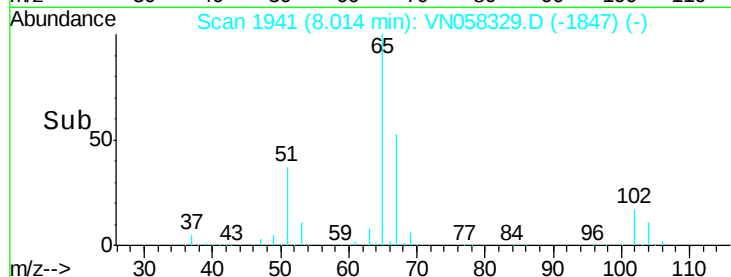
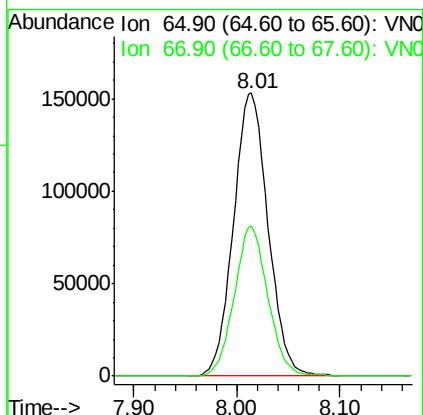
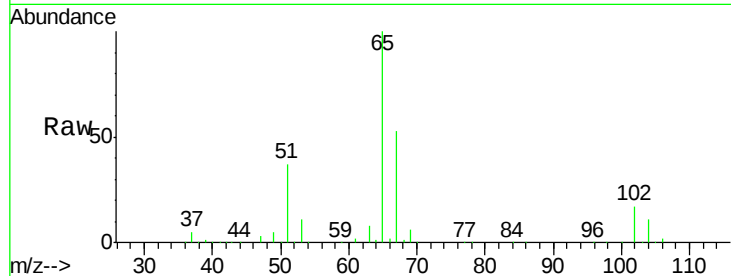




#33
 1,2-Dichloroethane-d4
 Concen: 54.990 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN058329.D
 Acq: 24 Sep 2019 5:56

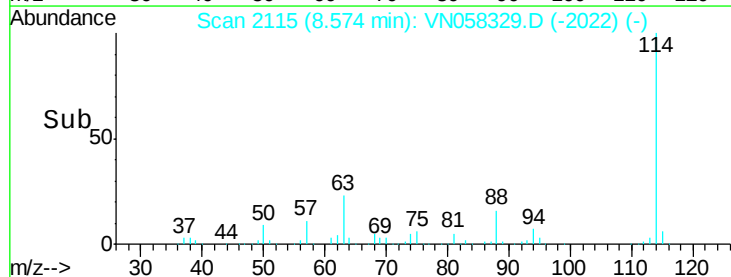
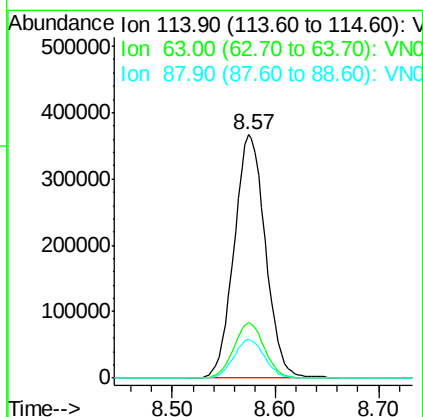
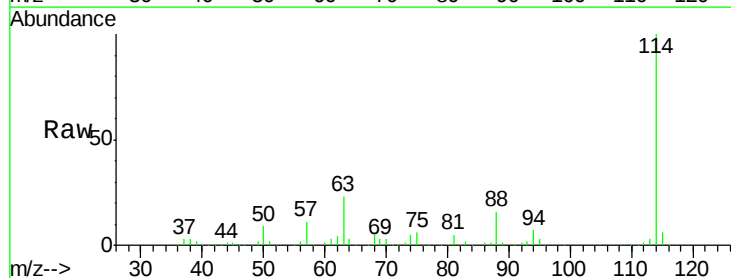
Instrument :
 MSVOA_N
 ClientSampleId :
 TWP-5

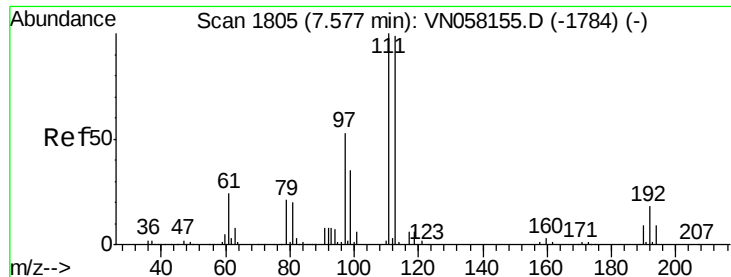
Tot Ion: 65 Resp: 357064
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058329.D
 Acq: 24 Sep 2019 5:56

Tgt Ion: 114 Resp: 775269
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 44.2
 88 15.9 0.0 31.6

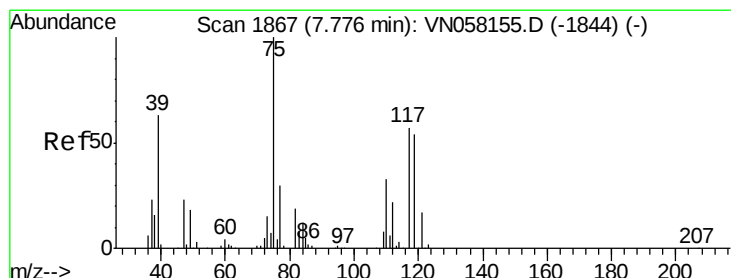
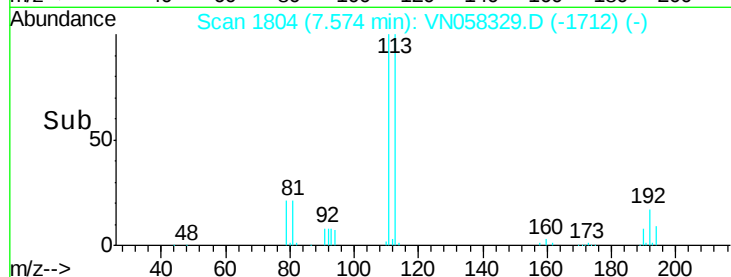
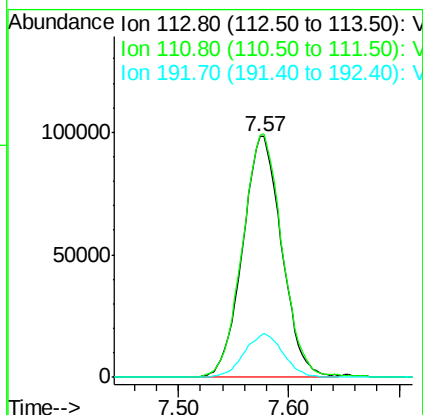
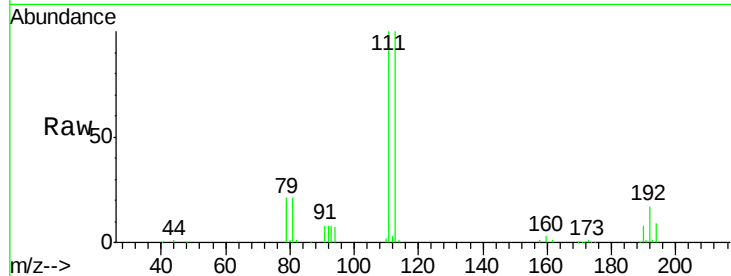




#35
 Dibromofluoromethane
 Concen: 51.343 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VN058329.D
 Acq: 24 Sep 2019 5:56

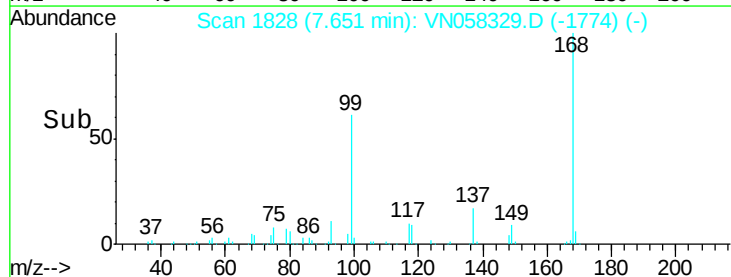
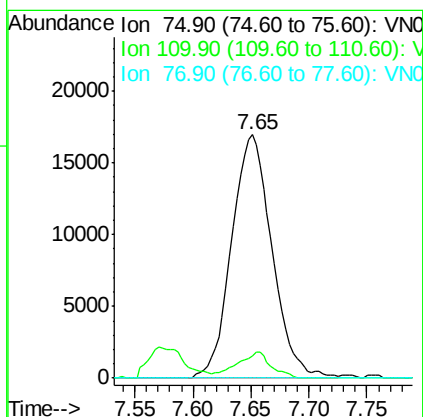
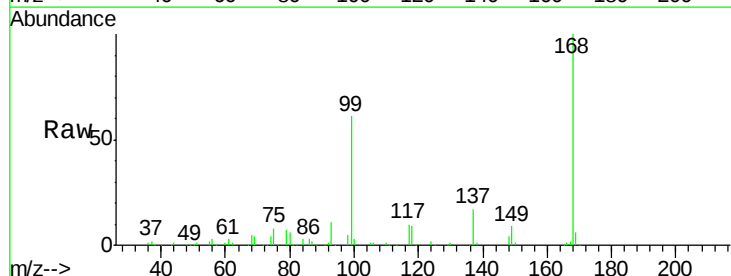
Instrument :
 MSVOA_N
 ClientSampled :
 TWP-5

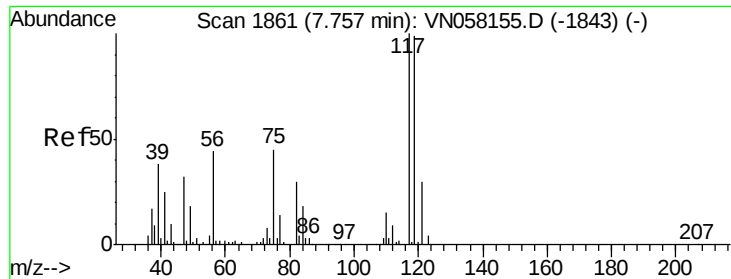
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.8	122.6
192	18.1	14.5	21.7



#36
 1,1-Dichloropropene
 Concen: 7.313 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058329.D
 Acq: 24 Sep 2019 5:56

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.1	16.6	49.7#
77	0.0	24.3	36.5#





#38

Carbon Tetrachloride

Concen: 8.536 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058329.D

Acq: 24 Sep 2019 5:56

Instrument :

MSVOA_N

ClientSampled :

TWP-5

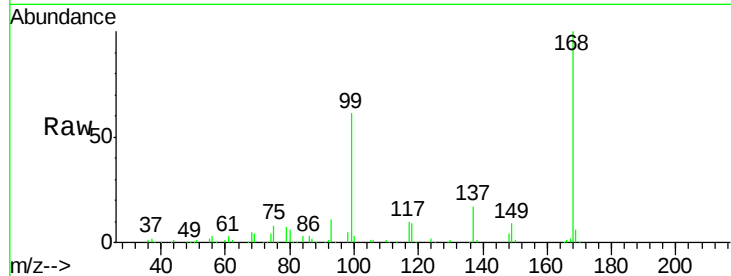
Tot Ion:117 Resp: 47974

Ion Ratio Lower Upper

117 100

119 3.7 78.6 117.8#

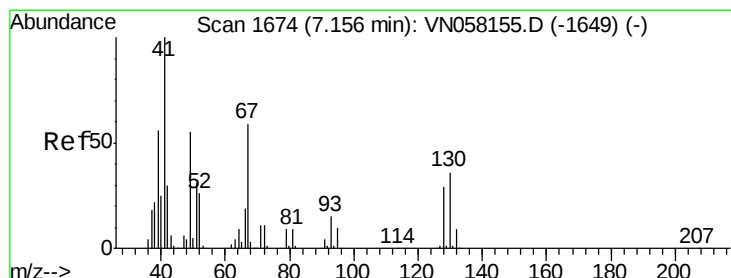
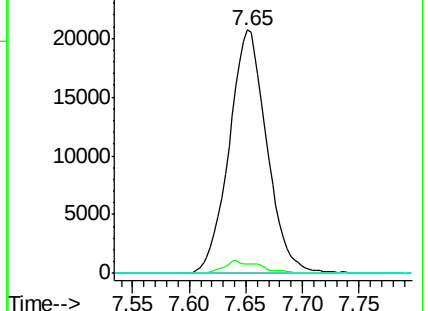
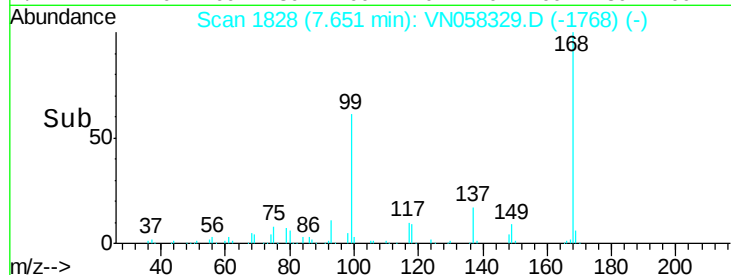
121 0.0 24.1 36.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 0.971 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.07 min

Lab File: VN058329.D

Acq: 24 Sep 2019 5:56

Tgt Ion: 41 Resp: 178

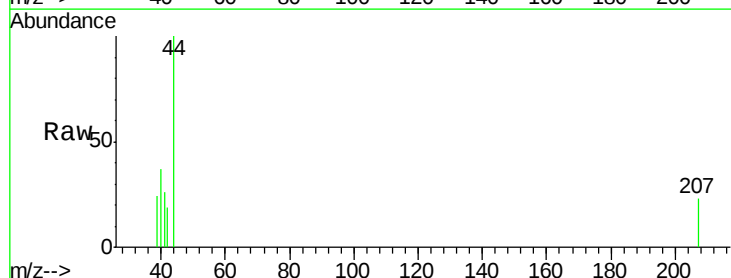
Ion Ratio Lower Upper

41 100

39 60.7 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

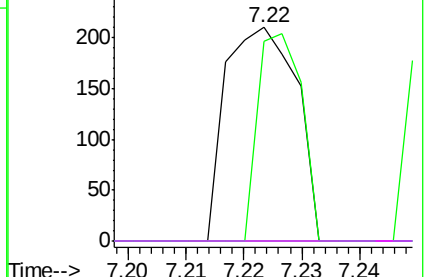
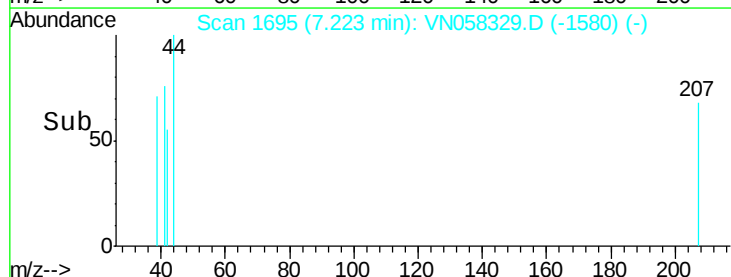


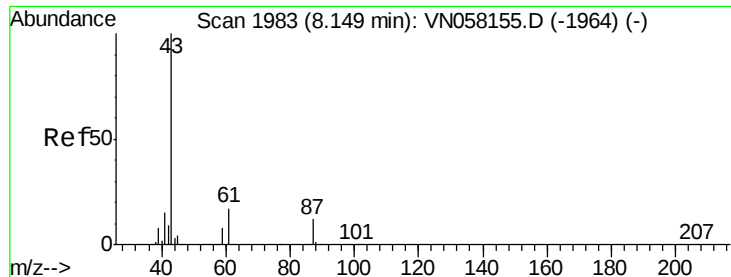
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 4.116 ug/l

RT: 8.26 min Scan# 2018

Delta R.T. 0.11 min

Lab File: VN058329.D

Acq: 24 Sep 2019 5:56

Instrument :

MSVOA_N

ClientSampleId :

TWP-5

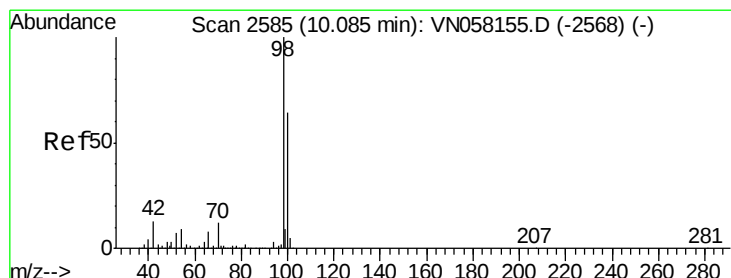
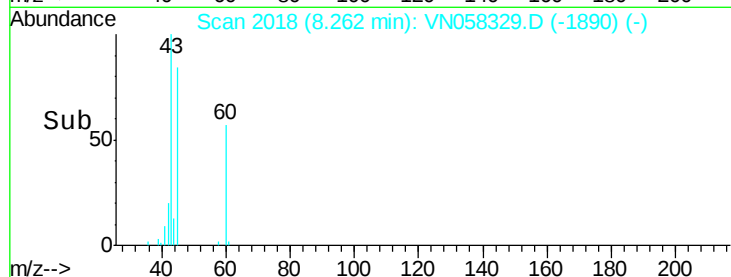
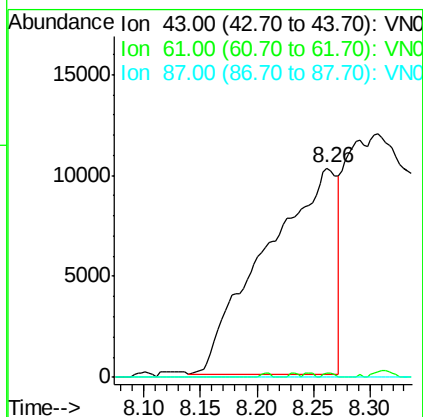
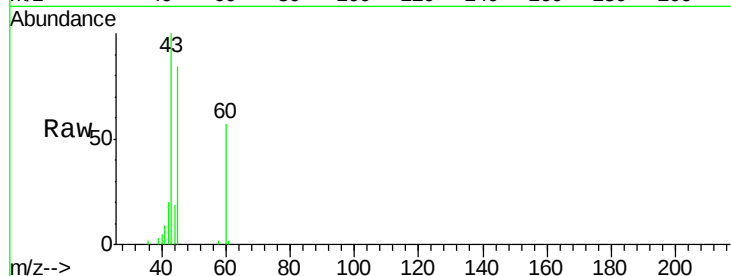
Tot Ion: 43 Resp: 44597

Ion Ratio Lower Upper

43 100

61 0.0 19.7 29.5#

87 0.0 9.4 14.2#



#50

Toluene-d8

Concen: 52.922 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058329.D

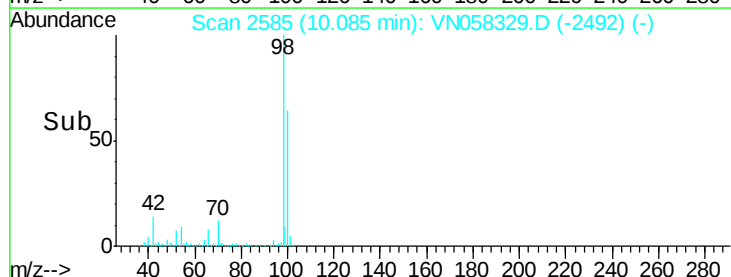
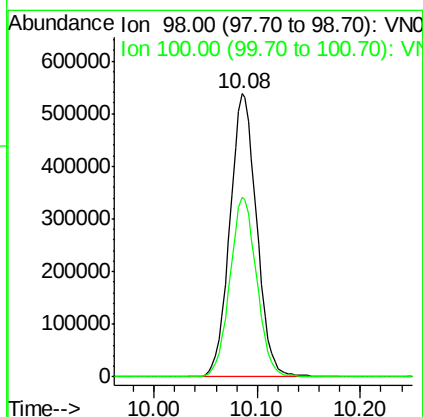
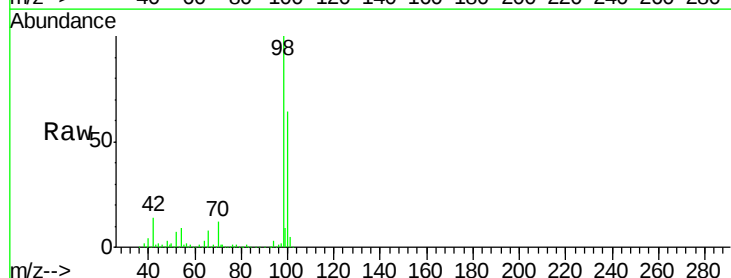
Acq: 24 Sep 2019 5:56

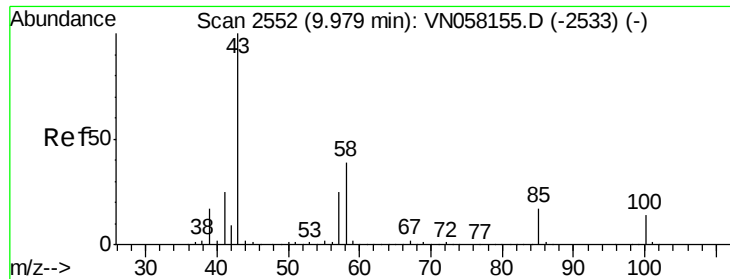
Tgt Ion: 98 Resp: 971789

Ion Ratio Lower Upper

98 100

100 63.6 51.1 76.7





#51

4-Methyl-2-Pentanone

Concen: 0.236 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. -0.00 min

Lab File: VN058329.D

Acq: 24 Sep 2019 5:56

Instrument :

MSVOA_N

ClientSampleId :

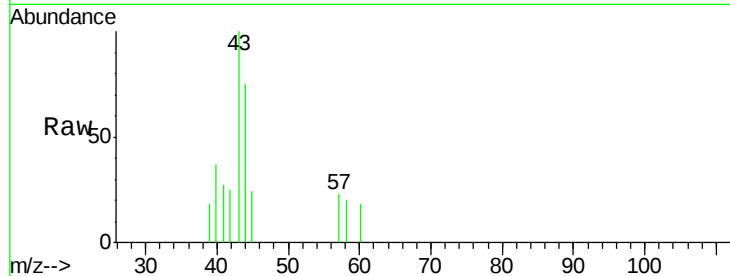
TWP-5

Tot Ion: 43 Resp: 1356

Ion Ratio Lower Upper

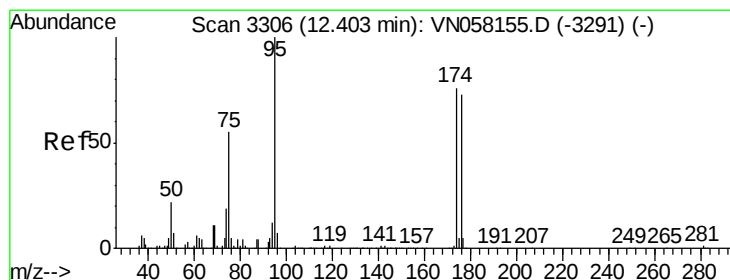
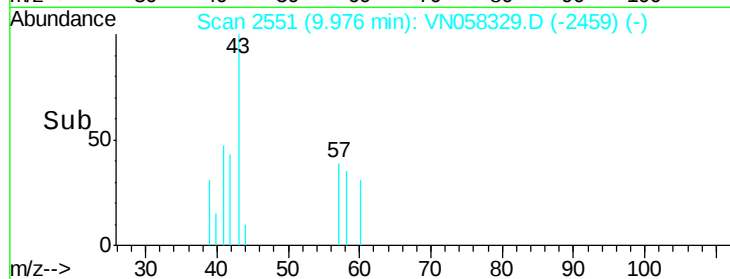
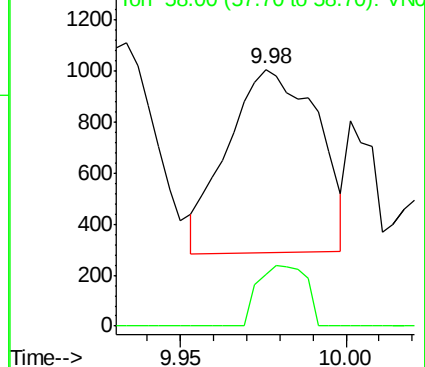
43 100

58 0.0 30.2 45.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: 44.263 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058329.D

Acq: 24 Sep 2019 5:56

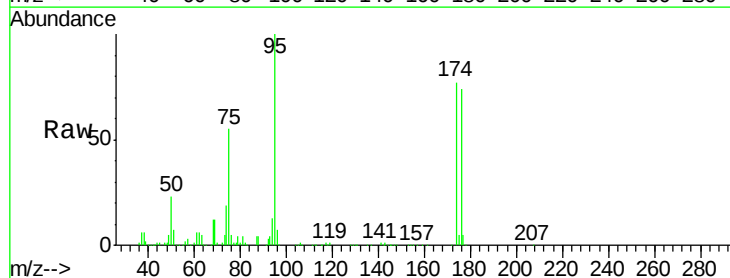
Tgt Ion: 95 Resp: 301920

Ion Ratio Lower Upper

95 100

174 76.2 0.0 152.2

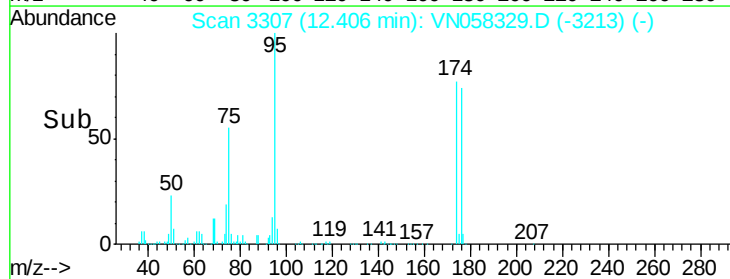
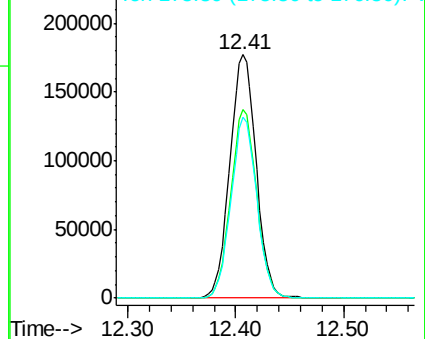
176 73.0 0.0 148.0

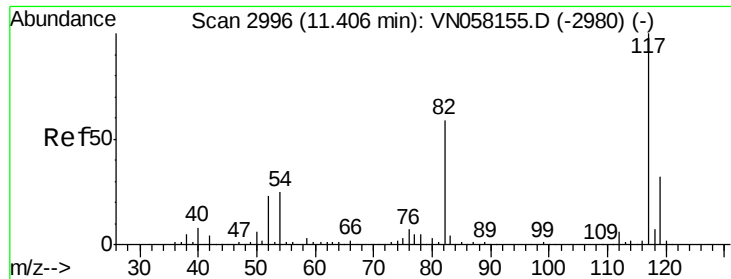


Abundance Ion 94.90 (94.60 to 95.60): VN0

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: VN058329.D

Acq: 24 Sep 2019 5:56

Instrument :

MSVOA_N

ClientSampled :

TWP-5

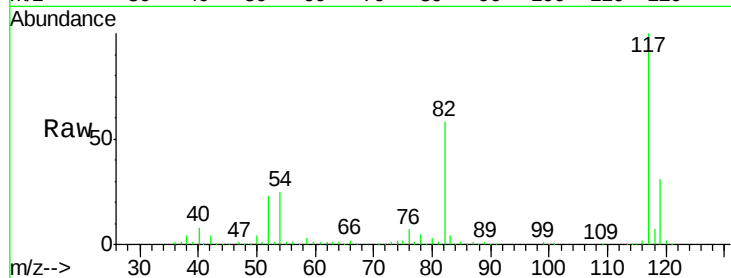
Tot Ion:117 Resp: 658450

Ion Ratio Lower Upper

117 100

82 58.5 46.9 70.3

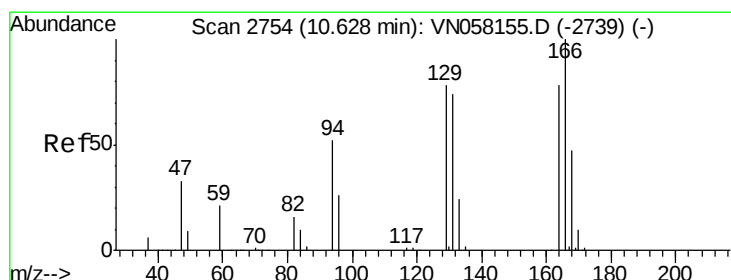
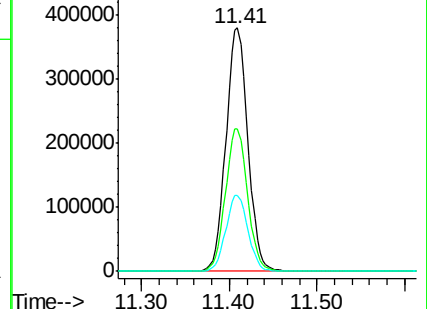
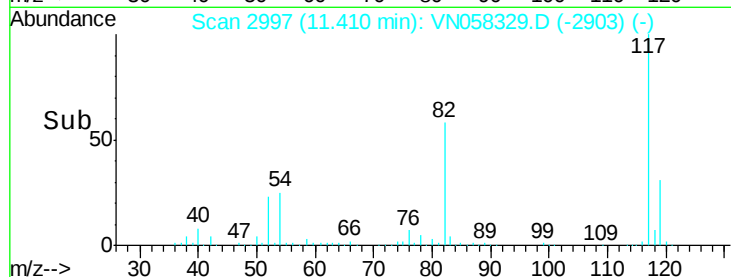
119 31.3 25.3 37.9



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



#64

Tetrachloroethene

Concen: 0.303 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. 0.00 min

Lab File: VN058329.D

Acq: 24 Sep 2019 5:56

Tgt Ion:164 Resp: 974

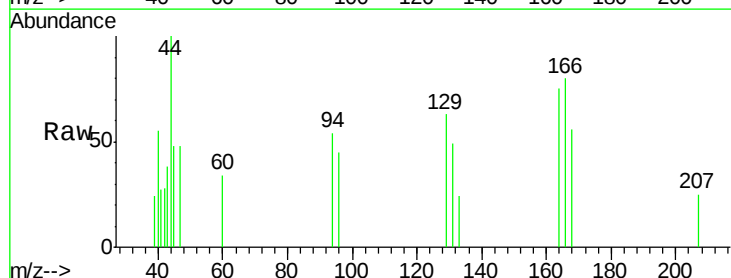
Ion Ratio Lower Upper

164 100

166 107.3 102.2 153.4

129 83.7 79.6 119.4

131 66.1 76.0 114.0#

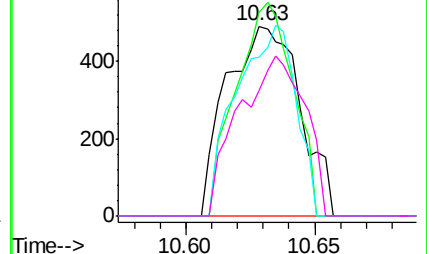
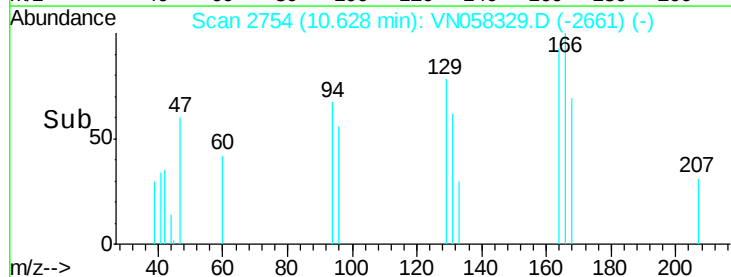


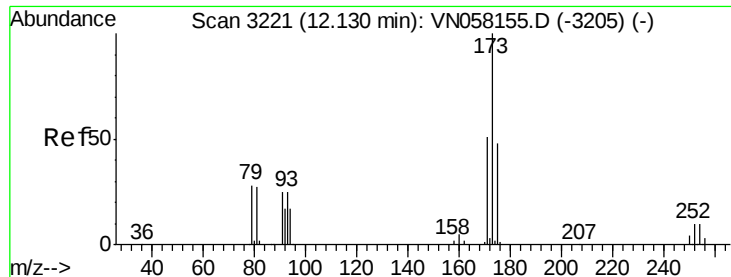
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#71

Bromoform

Concen: 3.671 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.27 min

Lab File: VN058329.D

Acq: 24 Sep 2019 5:56

Instrument :

MSVOA_N

ClientSampled :

TWP-5

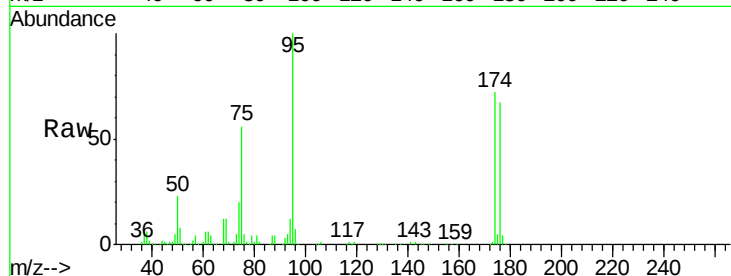
Tot Ion:173 Resp: 256

Ion Ratio Lower Upper

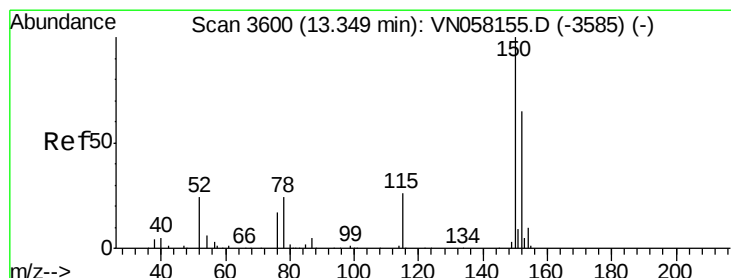
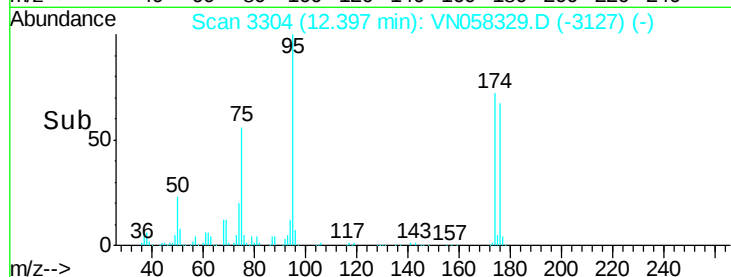
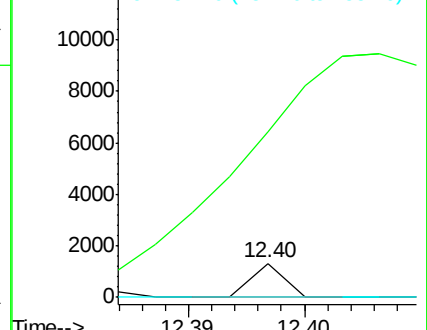
173 100

175 5253.9 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: VN058329.D

Acq: 24 Sep 2019 5:56

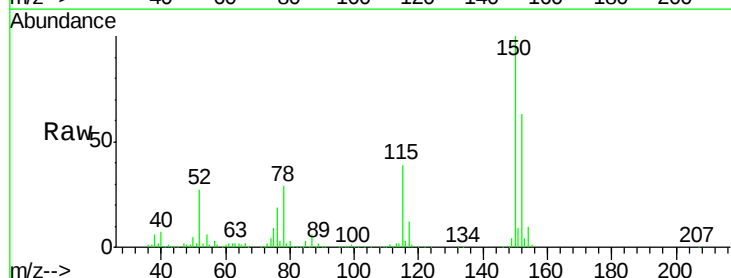
Tgt Ion:152 Resp: 261128

Ion Ratio Lower Upper

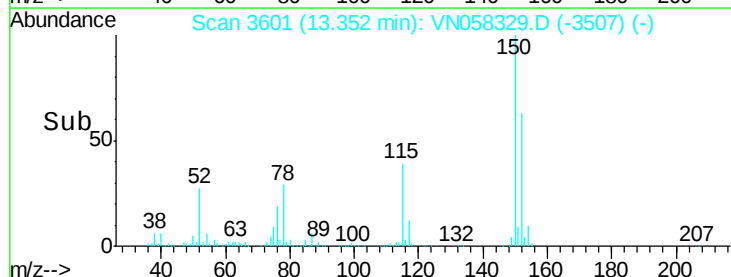
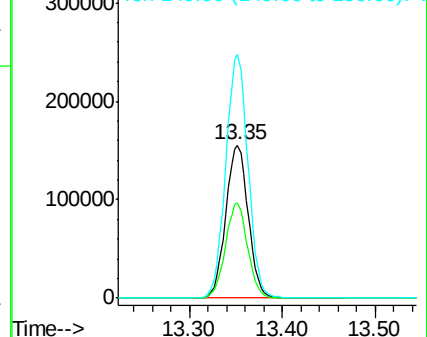
152 100

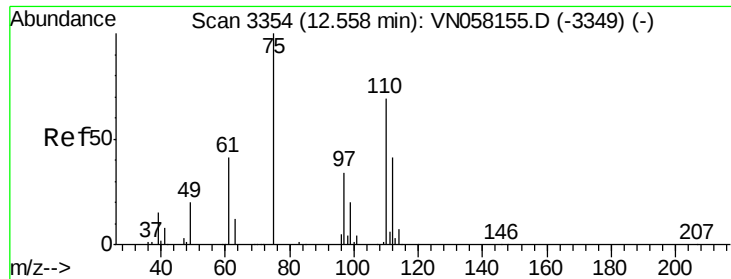
115 61.0 30.1 90.3

150 157.2 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: 35.477 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058329.D

Acq: 24 Sep 2019 5:56

Instrument :

MSVOA_N

ClientSampled :

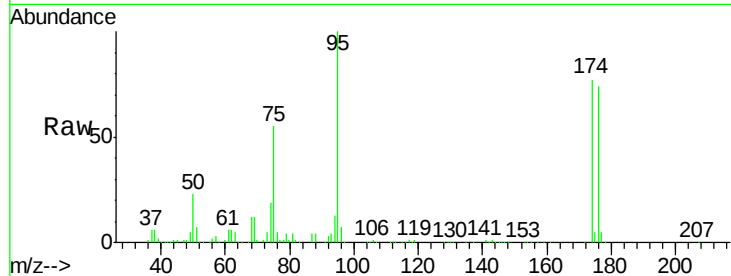
TWP-5

Tot Ion: 75 Resp: 165795

Ion Ratio Lower Upper

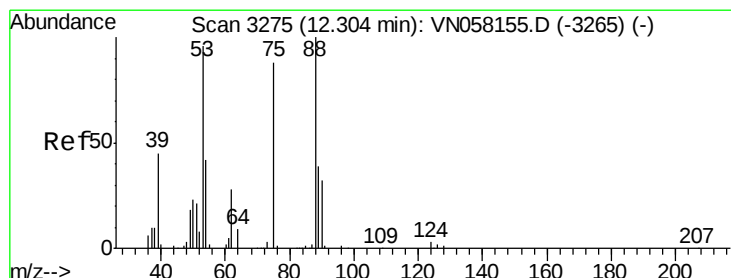
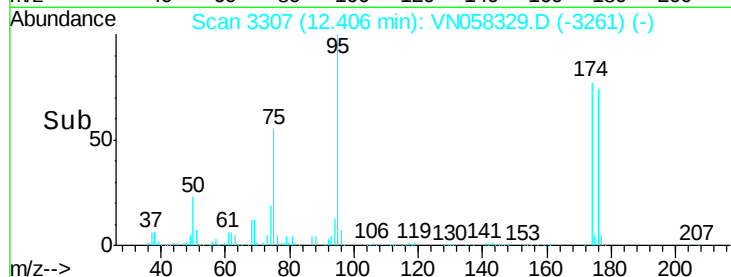
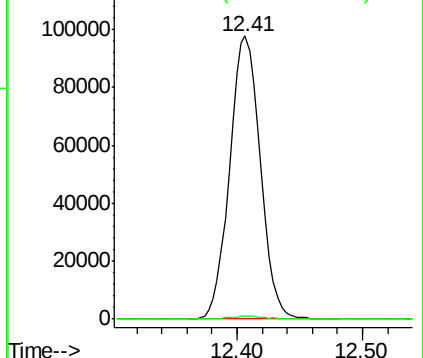
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 99.162 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058329.D

Acq: 24 Sep 2019 5:56

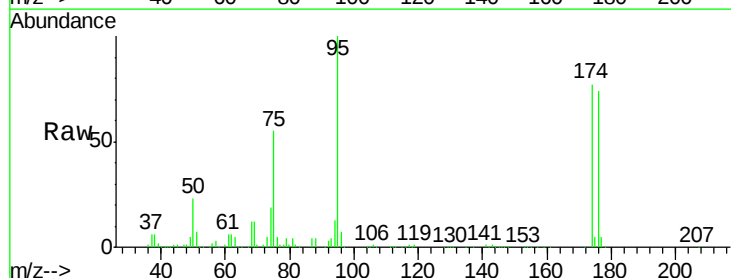
Tgt Ion: 75 Resp: 165795

Ion Ratio Lower Upper

75 100

53 0.1 90.1 135.1#

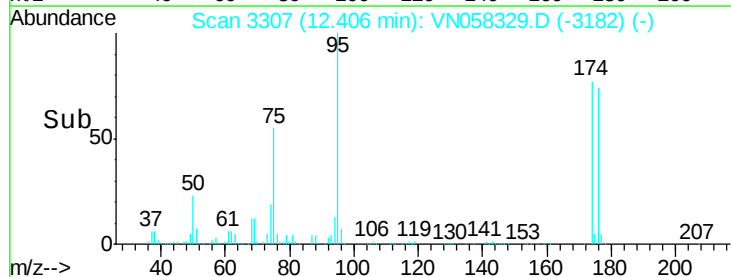
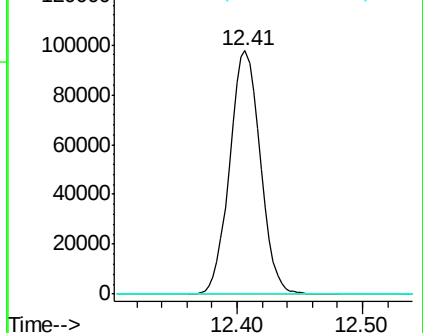
89 0.0 36.2 54.2#

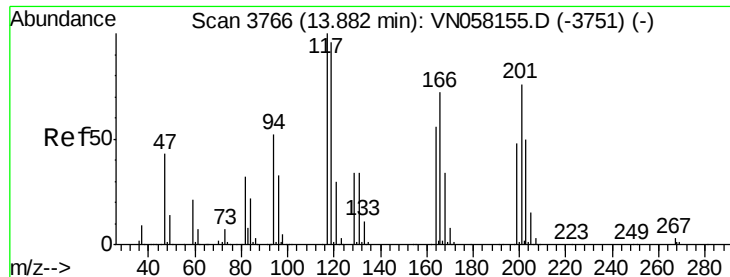


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#90

Hexachloroethane

Concen: 2.882 ug/l

RT: 13.96 min Scan# 3789

Delta R.T. 0.07 min

Lab File: VN058329.D

Acq: 24 Sep 2019 5:56

Instrument :

MSVOA_N

ClientSampled :

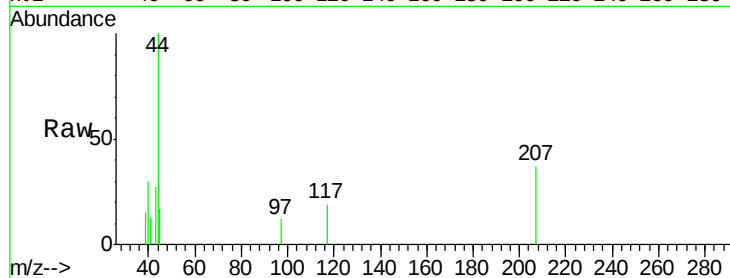
TWP-5

Tot Ion:117 Resp: 158

Ion Ratio Lower Upper

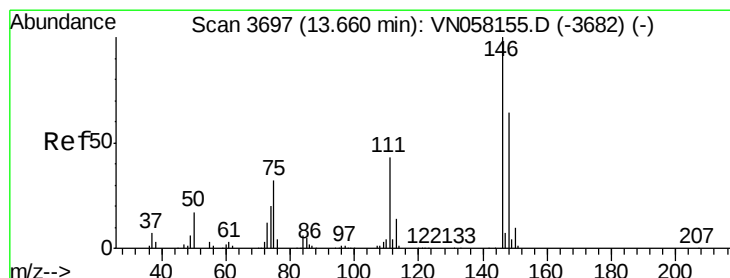
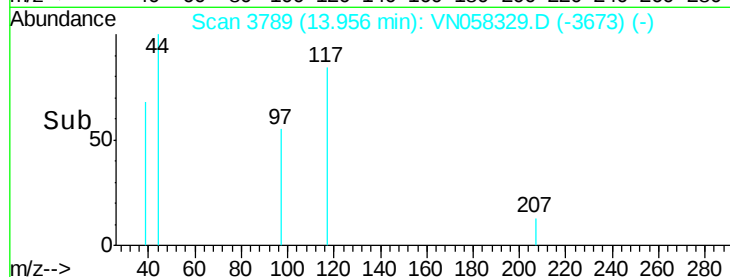
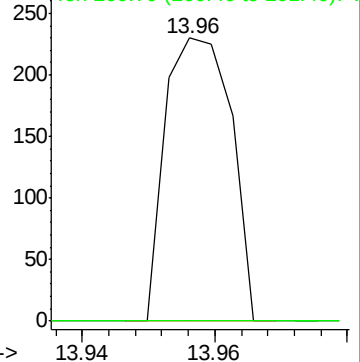
117 100

201 0.0 37.5 112.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#91

1,2-Dichlorobenzene

Concen: 0.514 ug/l

RT: 13.67 min Scan# 3699

Delta R.T. 0.01 min

Lab File: VN058329.D

Acq: 24 Sep 2019 5:56

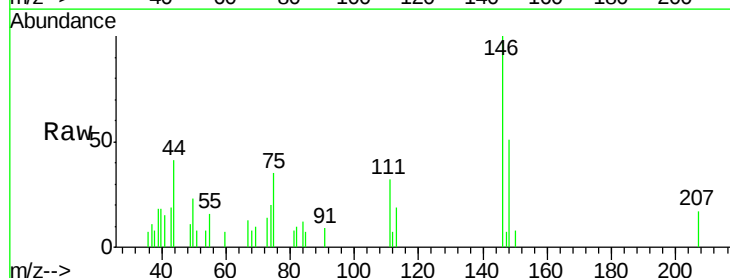
Tgt Ion:146 Resp: 3874

Ion Ratio Lower Upper

146 100

111 40.1 21.1 63.1

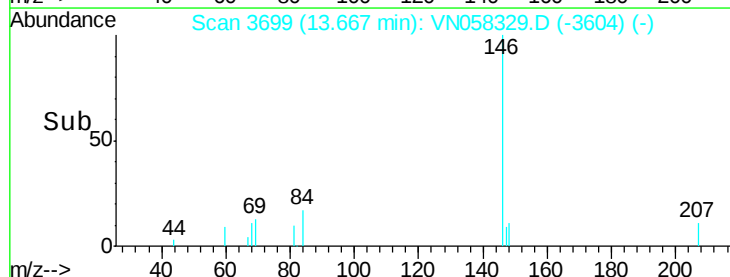
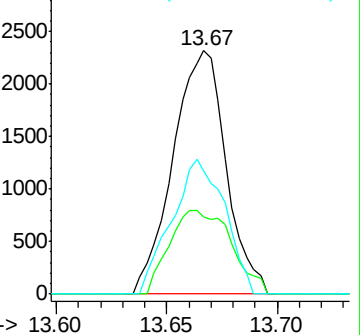
148 55.4 31.8 95.4

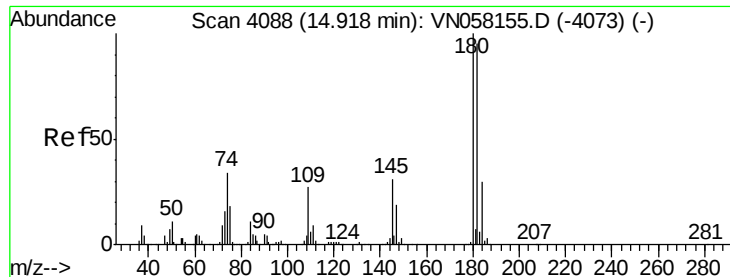


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

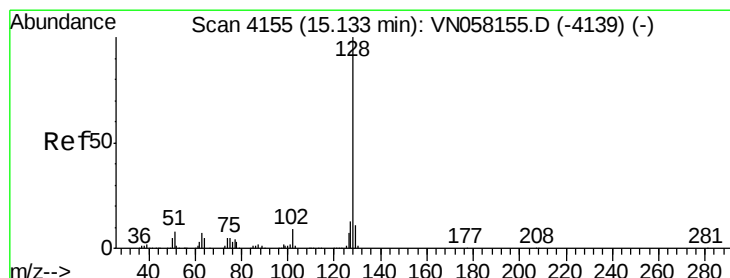
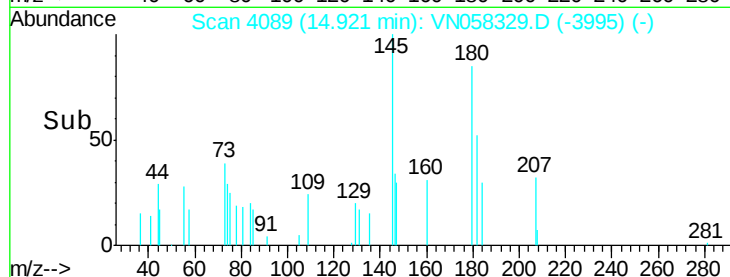
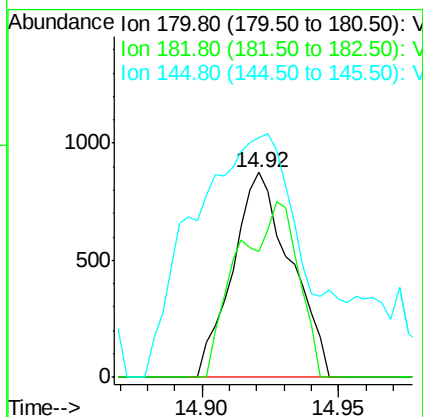
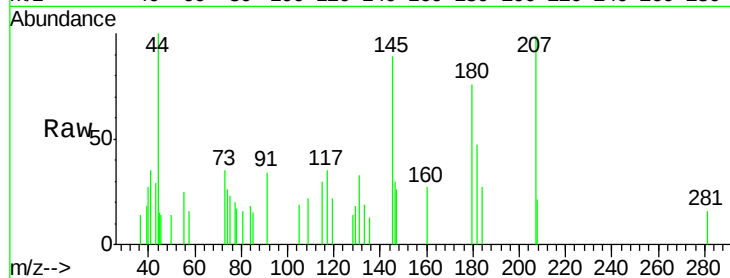




#93
 1,2,4-Trichlorobenzene
 Concen: 0.269 ug/l
 RT: 14.92 min Scan# 4089
 Delta R.T. 0.00 min
 Lab File: VN058329.D
 Acq: 24 Sep 2019 5:56

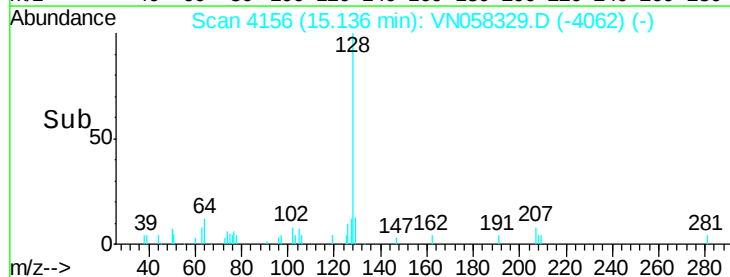
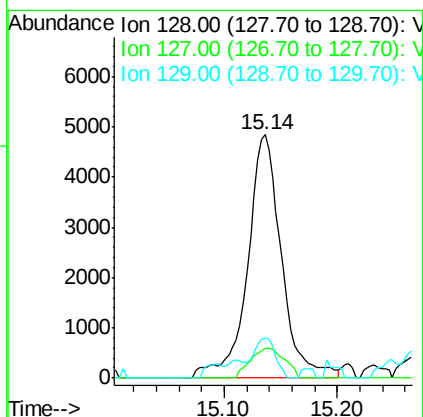
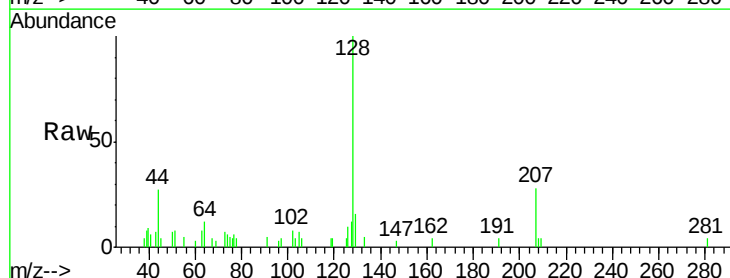
Instrument :
 MSVOA_N
 ClientSampled :
 TWP-5

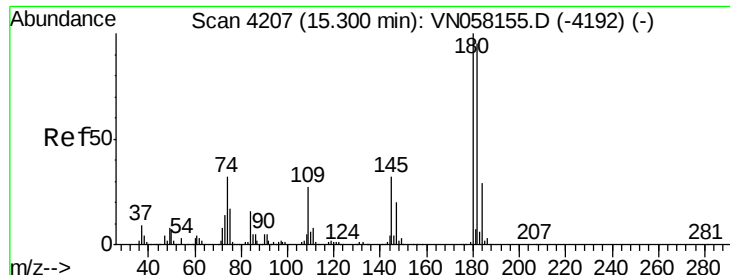
Tot Ion:180 Resp: 1294
 Ion Ratio Lower Upper
 180 100
 182 88.9 47.8 143.3
 145 224.0 15.4 46.4#



#95
 Naphthalene
 Concen: 0.810 ug/l
 RT: 15.14 min Scan# 4156
 Delta R.T. 0.00 min
 Lab File: VN058329.D
 Acq: 24 Sep 2019 5:56

Tgt Ion:128 Resp: 10097
 Ion Ratio Lower Upper
 128 100
 127 12.3 10.2 15.2
 129 10.9 8.6 12.8

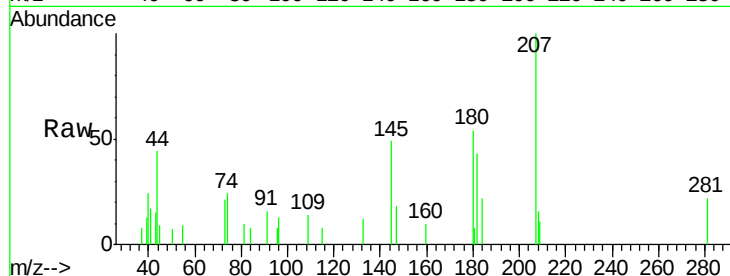




#96
 1,2,3-Trichlorobenzene
 Concen: 0.379 ug/l
 RT: 15.30 min Scan# 4208
 Delta R.T. 0.00 min
 Lab File: VN058329.D
 Acq: 24 Sep 2019 5:56

Instrument :
 MSVOA_N
 ClientSampleId :
 TWP-5

Tot Ion	Ratio	Lower	Upper
180	100		
182	79.0	47.4	142.2
145	0.0	16.1	48.2



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

