

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN093019\
 Data File : VN058432.D
 Acq On : 30 Sep 2019 14:05
 Operator : JC/SP
 Sample : K5080-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-PZ145D-20190924

Quant Time: Oct 01 01:31:47 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	439730	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	719521	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	595893	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	213125	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	319660	49.75	ug/l	0.00
Spiked Amount			Recovery	=	99.50%	
35) Dibromofluoromethane	7.58	113	225157	51.06	ug/l	0.00
Spiked Amount			Recovery	=	102.12%	
50) Toluene-d8	10.09	98	909612	52.65	ug/l	0.00
Spiked Amount			Recovery	=	105.30%	
62) 4-Bromofluorobenzene	12.41	95	270330	43.28	ug/l	0.00
Spiked Amount			Recovery	=	86.56%	

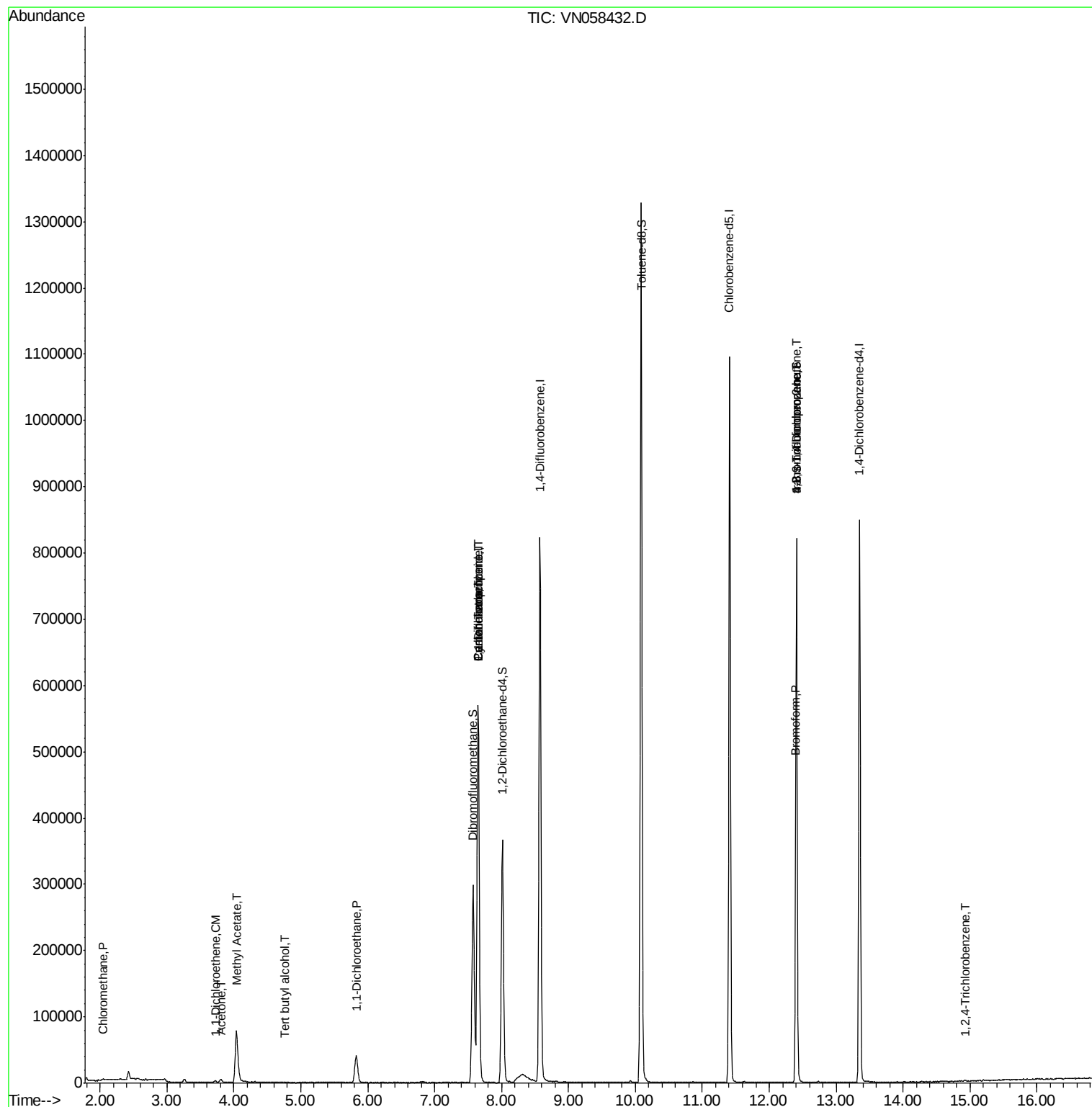
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1103	0.208	ug/l #	55
11) Tert butyl alcohol	4.76	59	285	0.399	ug/l #	71
12) 1,1-Dichloroethene	3.73	96	1249	0.301	ug/l #	38
16) Acetone	3.80	43	8507	3.884	ug/l	90
18) Methyl Acetate	4.04	43	33868	6.147	ug/l #	53
24) 1,1-Dichloroethane	5.82	63	62832	6.872	ug/l	99
31) Cyclohexane	7.65	56	11539	1.298	ug/l #	21
36) 1,1-Dichloropropene	7.65	75	38033	5.528	ug/l #	51
38) Carbon Tetrachloride	7.65	117	44269	7.128	ug/l #	17
71) Bromoform	12.38	173	36	0.708	ug/l #	29
76) 1,2,3-Trichloropropane	12.41	75	151133	38.824	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	151133	117.914	ug/l #	7
93) 1,2,4-Trichlorobenzene	14.92	180	852	0.240	ug/l	78

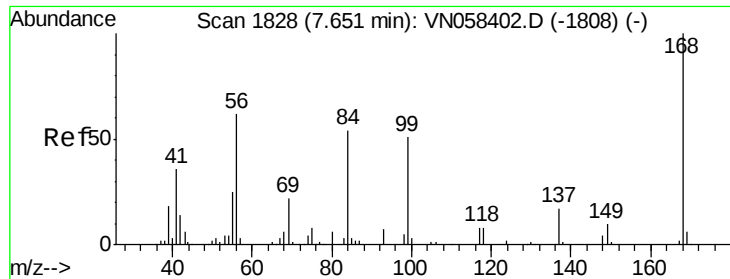
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN058432.D

Acq: 30 Sep 2019 14:05

Instrument :

MSVOA_N

ClientSampleId :

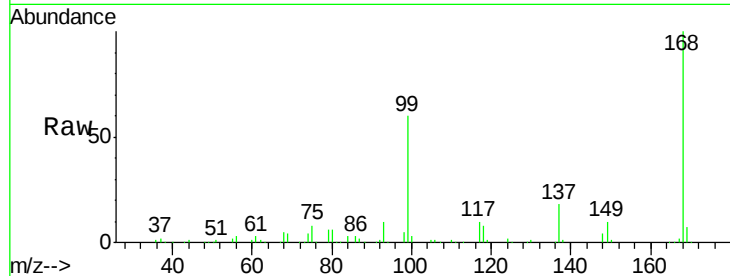
SA-PZ145D-20190924

Tot Ion:168 Resp: 439730

Ion Ratio Lower Upper

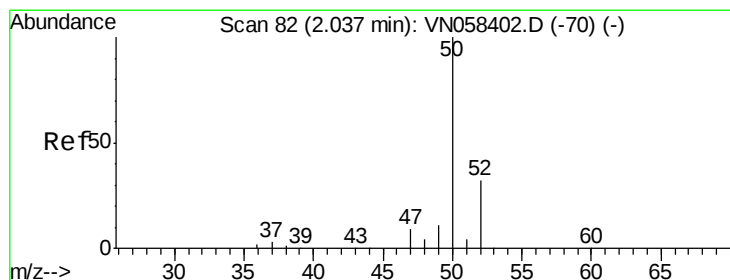
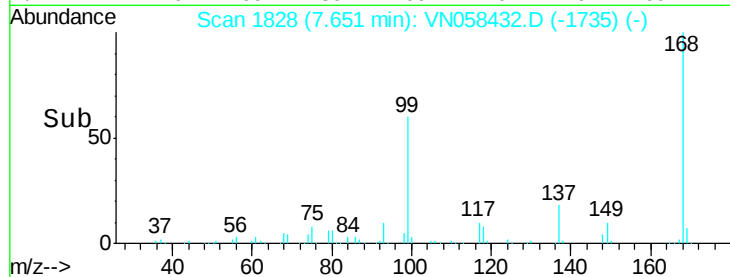
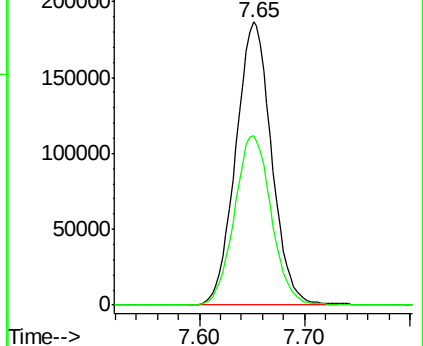
168 100

99 59.7 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#3

Chloromethane

Concen: 0.208 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058432.D

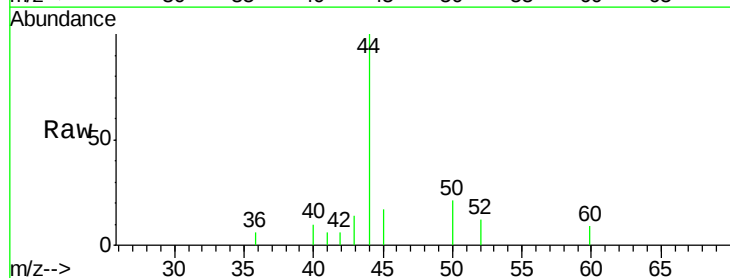
Acq: 30 Sep 2019 14:05

Tgt Ion: 50 Resp: 1103

Ion Ratio Lower Upper

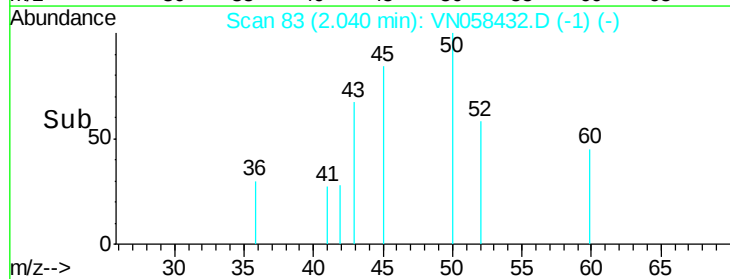
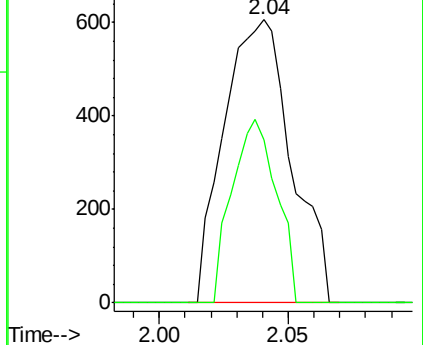
50 100

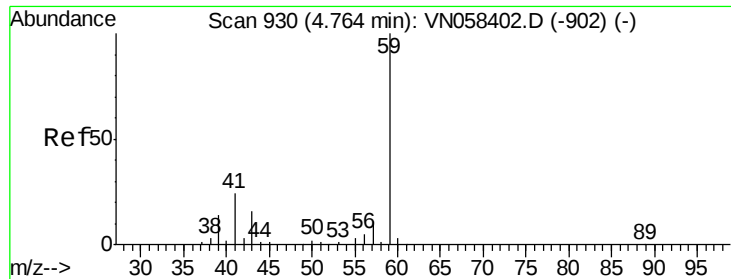
52 57.8 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

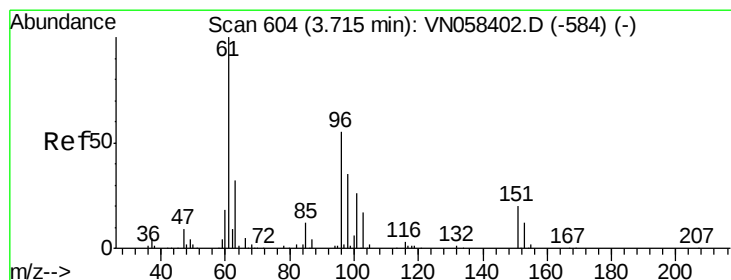
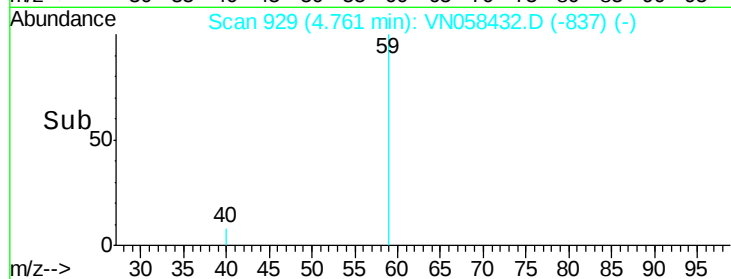
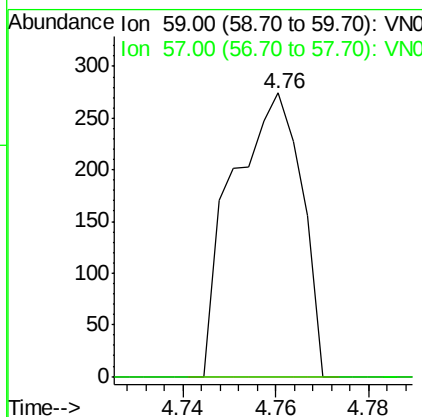
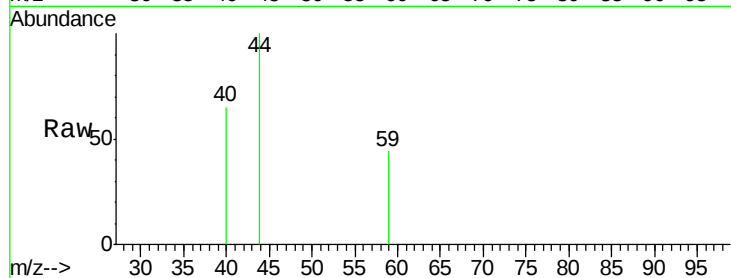




#11
 Tert butyl alcohol
 Concen: 0.399 ug/l
 RT: 4.76 min Scan# 929
 Delta R.T. -0.00 min
 Lab File: VN058432.D
 Acq: 30 Sep 2019 14:05

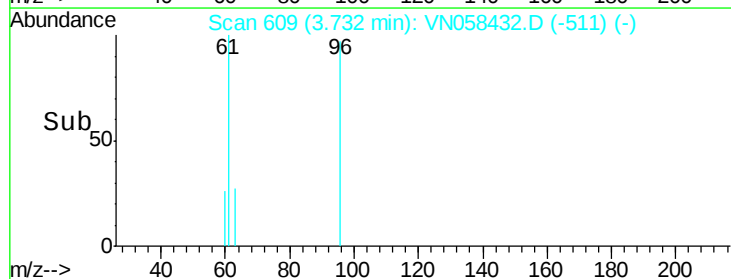
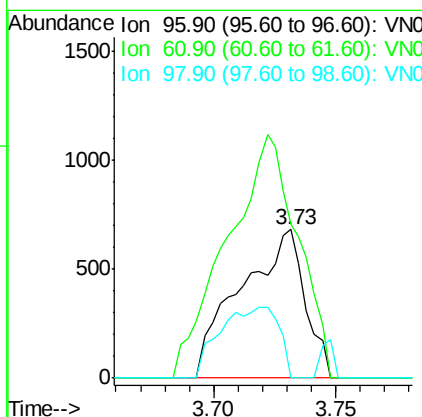
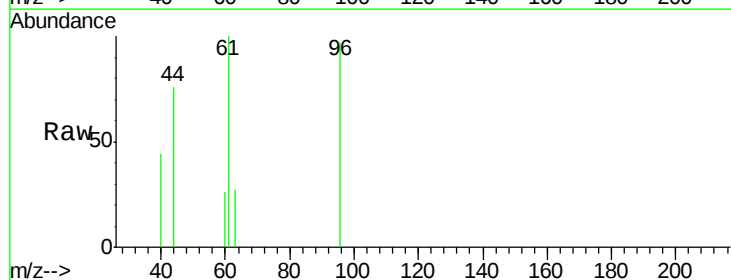
Instrument :
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 SA-PZ145D-20190924

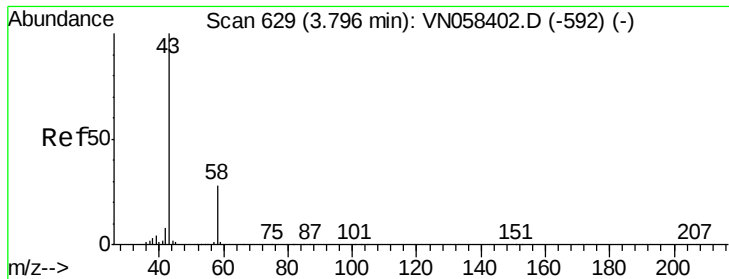
Tot Ion: 59 Resp: 285
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.0 13.4#



#12
 1,1-Dichloroethene
 Concen: 0.301 ug/l
 RT: 3.73 min Scan# 609
 Delta R.T. 0.02 min
 Lab File: VN058432.D
 Acq: 30 Sep 2019 14:05

Tgt Ion: 96 Resp: 1249
 Ion Ratio Lower Upper
 96 100
 61 103.5 146.7 220.1#
 98 0.0 51.3 76.9#

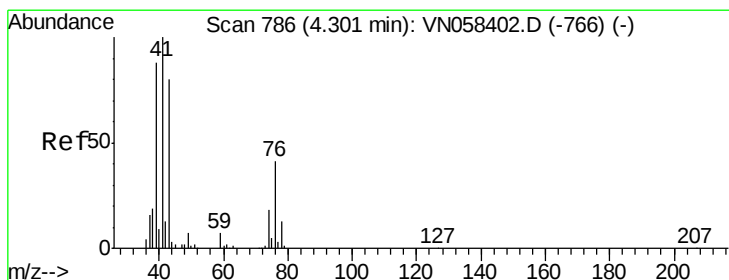
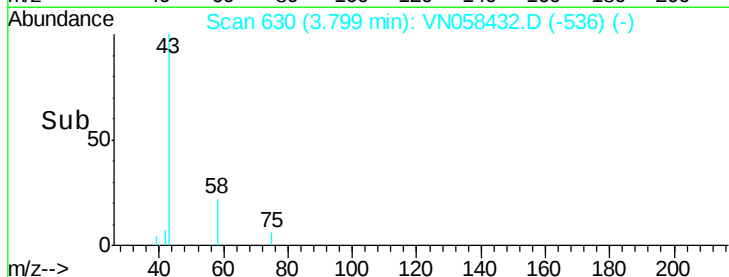
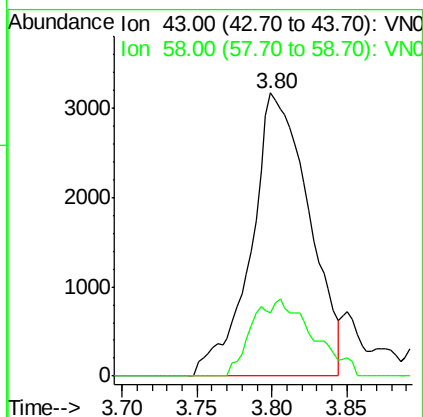
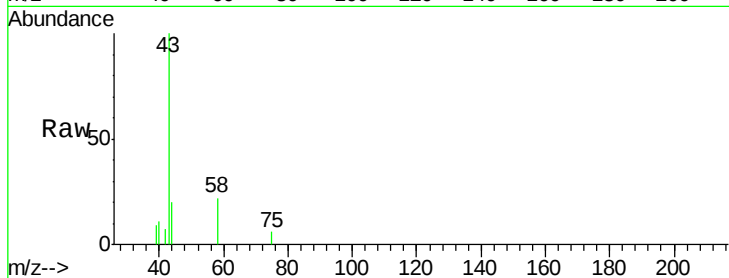




#16
Acetone
Concen: 3.884 ug/l
RT: 3.80 min Scan# 630
Delta R.T. 0.00 min
Lab File: VN058432.D
Acq: 30 Sep 2019 14:05

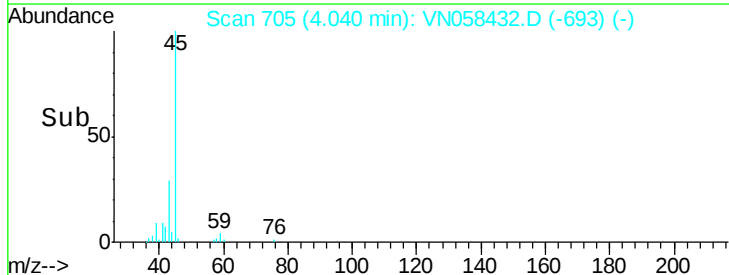
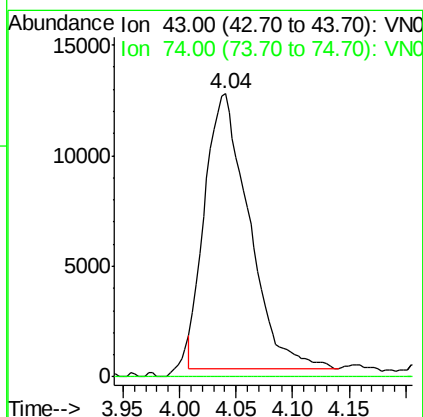
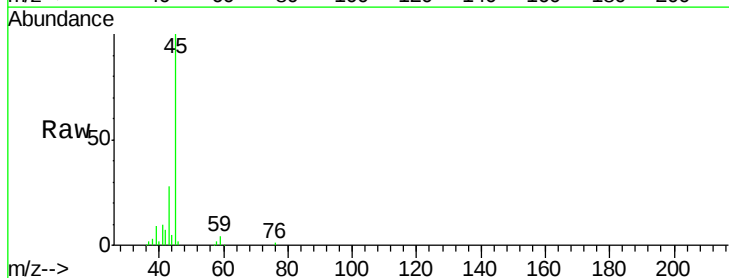
Instrument :
MSVOA_N
ClientSampleId :
SA-PZ145D-20190924

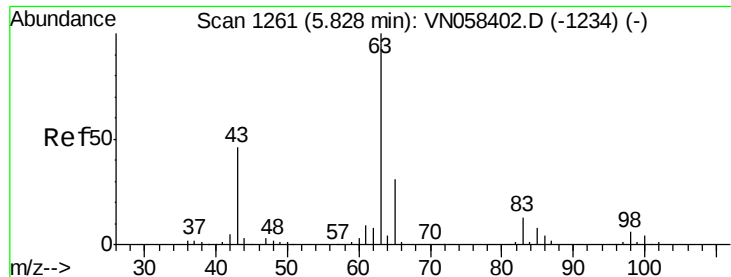
Tot Ion: 43 Resp: 8507
Ion Ratio Lower Upper
43 100
58 22.5 22.4 33.6



#18
Methyl Acetate
Concen: 6.147 ug/l
RT: 4.04 min Scan# 705
Delta R.T. -0.26 min
Lab File: VN058432.D
Acq: 30 Sep 2019 14:05

Tgt Ion: 43 Resp: 33868
Ion Ratio Lower Upper
43 100
74 0.0 18.0 27.0#





#24

1,1-Dichloroethane

Concen: 6.872 ug/l

RT: 5.82 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VN058432.D

Acq: 30 Sep 2019 14:05

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ145D-20190924

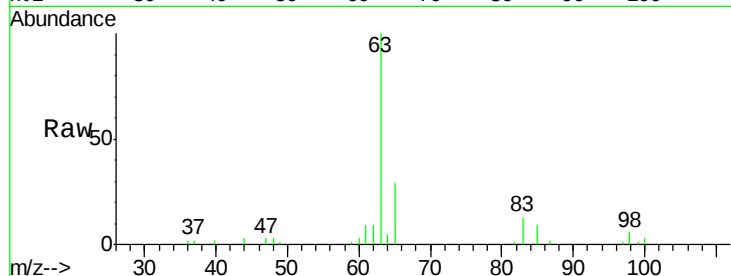
Tot Ion: 63 Resp: 62832

Ion Ratio Lower Upper

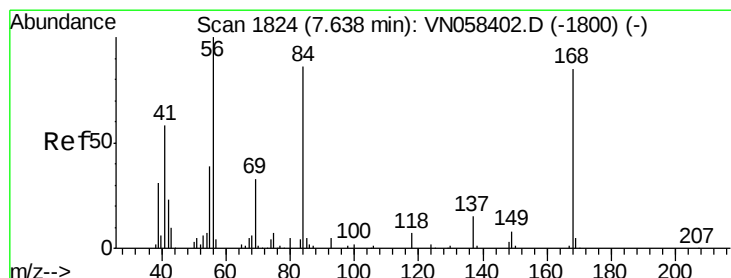
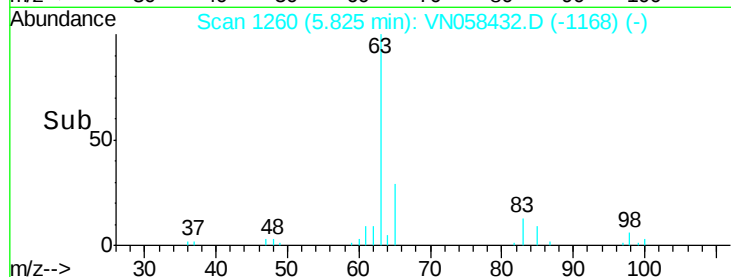
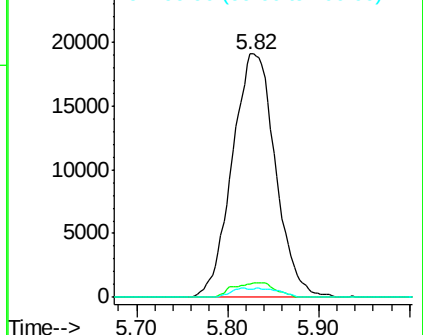
63 100

98 5.6 3.0 9.0

100 3.4 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: 1.298 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN058432.D

Acq: 30 Sep 2019 14:05

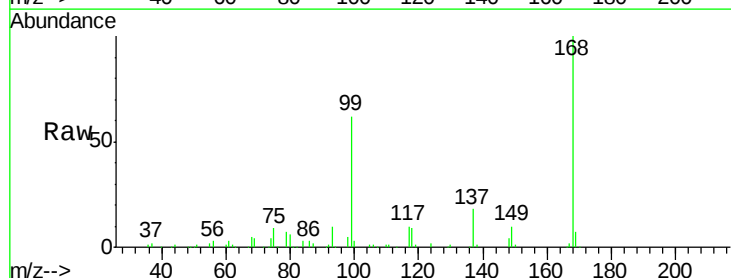
Tgt Ion: 56 Resp: 11539

Ion Ratio Lower Upper

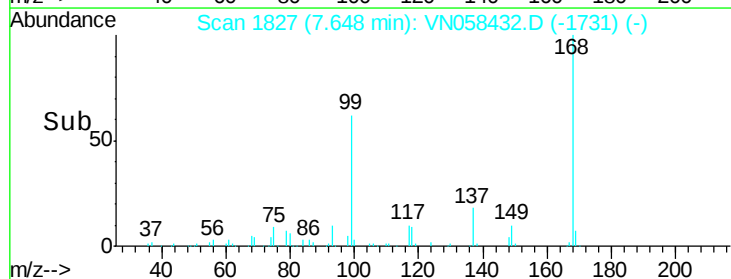
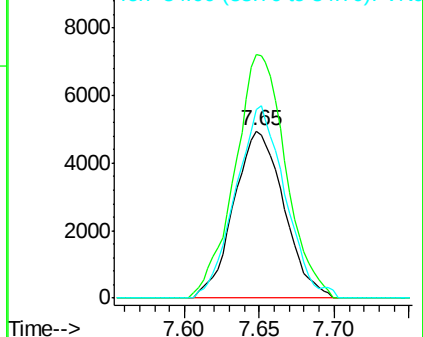
56 100

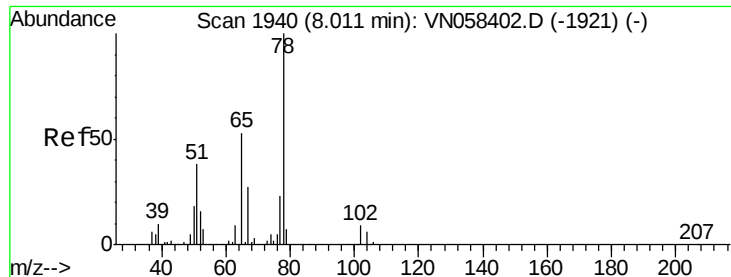
69 145.9 26.2 39.4#

84 113.3 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





#33

1,2-Dichloroethane-d4

Concen: 49.745 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058432.D

Acq: 30 Sep 2019 14:05

Instrument :

MSVOA_N

ClientSampleId :

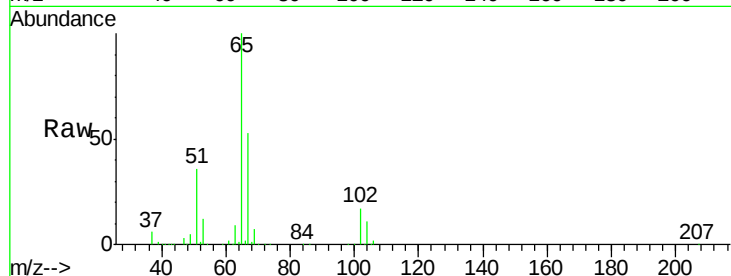
SA-PZ145D-20190924

Tot Ion: 65 Resp: 319660

Ion Ratio Lower Upper

65 100

67 52.1 0.0 102.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.01

150000

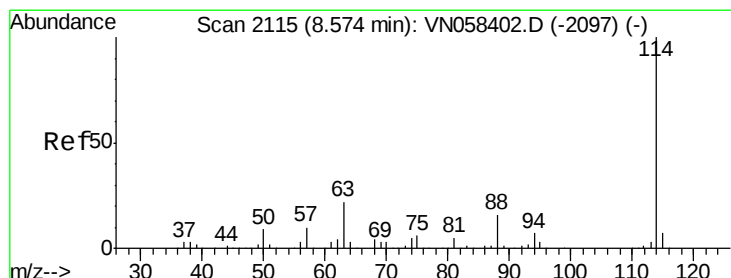
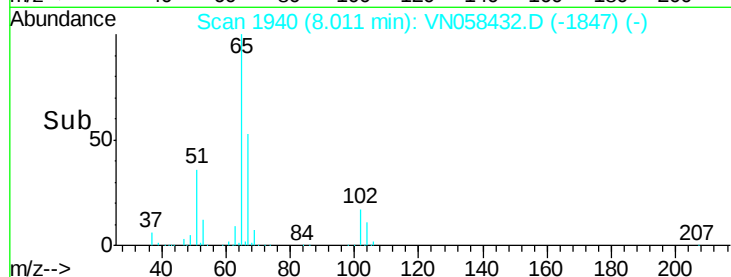
100000

50000

0

7.90 8.00 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. 0.00 min

Lab File: VN058432.D

Acq: 30 Sep 2019 14:05

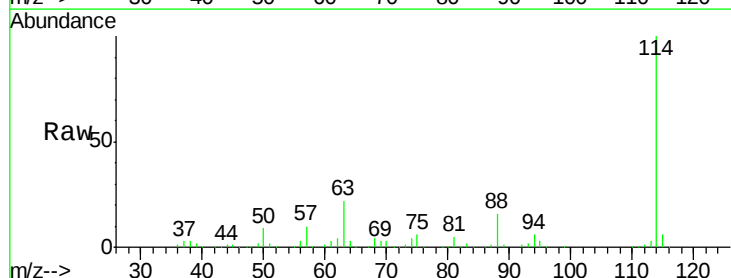
Tgt Ion: 114 Resp: 719521

Ion Ratio Lower Upper

114 100

63 22.3 0.0 45.0

88 15.9 0.0 32.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

8.57

400000

300000

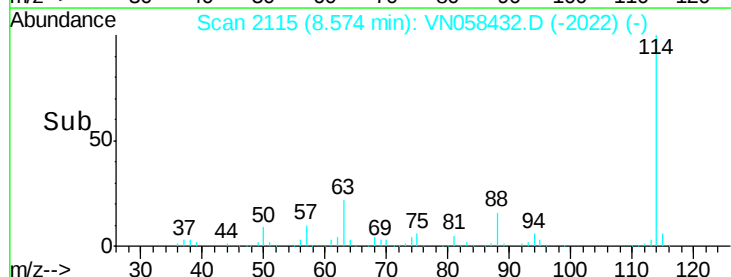
200000

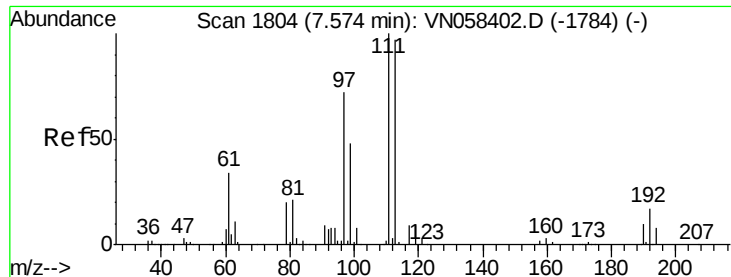
100000

0

8.50 8.60 8.70 8.80

Time-->

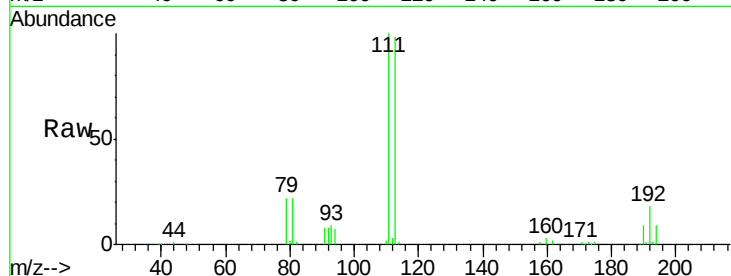




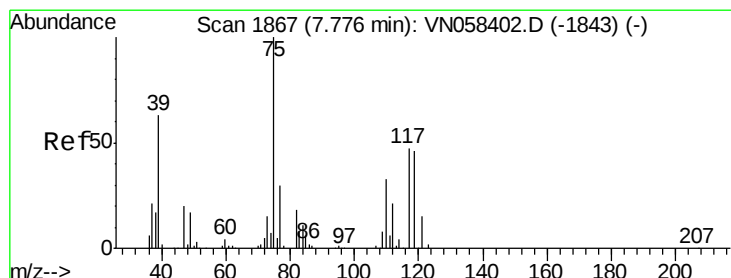
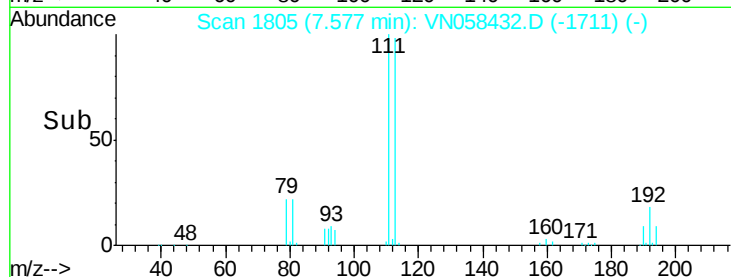
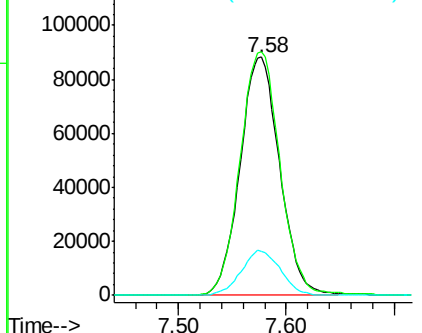
#35
 Dibromofluoromethane
 Concen: 51.058 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058432.D
 Acq: 30 Sep 2019 14:05

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-PZ145D-20190924

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.5	83.4	125.2
192	18.7	14.9	22.3

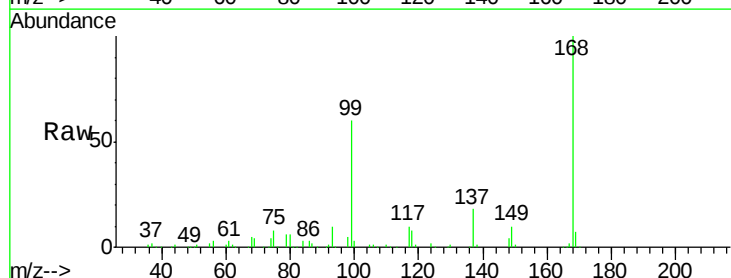


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

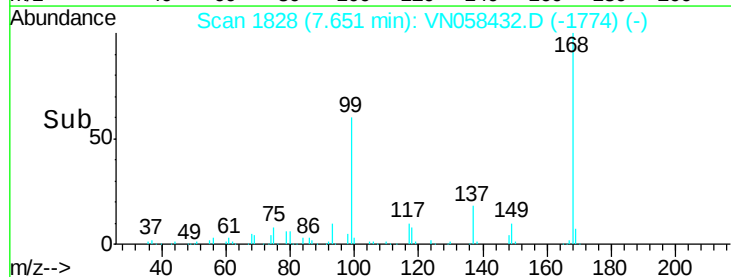
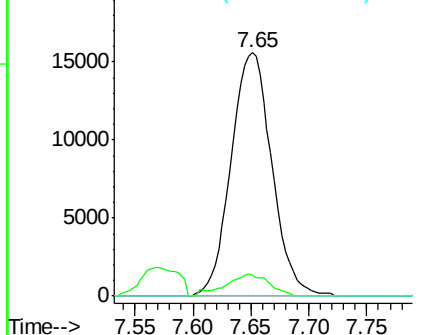


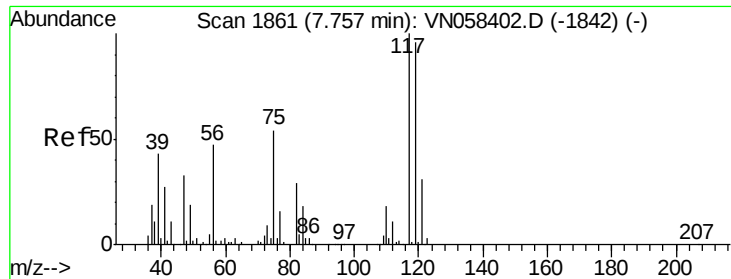
#36
 1,1-Dichloropropene
 Concen: 5.528 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058432.D
 Acq: 30 Sep 2019 14:05

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.1	16.4	49.2#
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: 7.128 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.10 min

Lab File: VN058432.D

Acq: 30 Sep 2019 14:05

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ145D-20190924

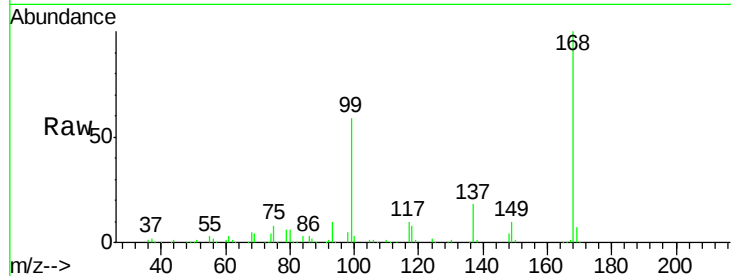
Tot Ion:117 Resp: 44269

Ion Ratio Lower Upper

117 100

119 6.1 76.6 115.0#

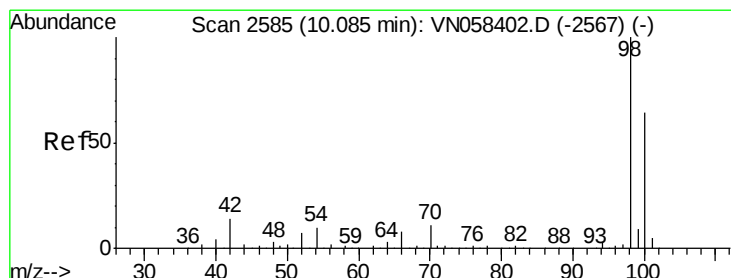
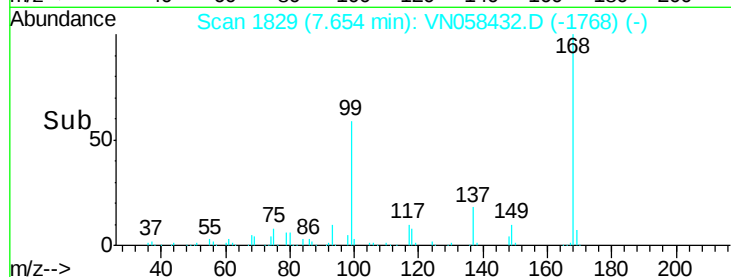
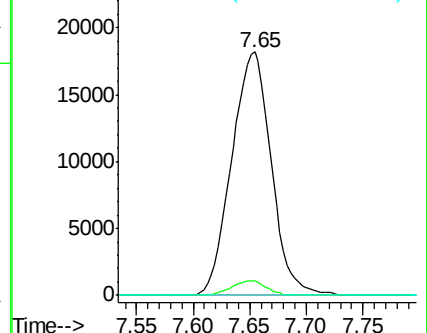
121 0.0 24.7 37.1#



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



#50

Toluene-d8

Concen: 52.654 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058432.D

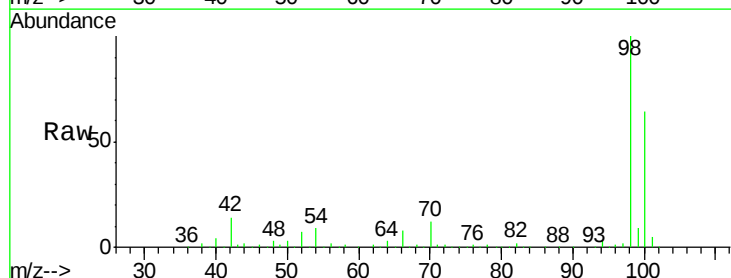
Acq: 30 Sep 2019 14:05

Tgt Ion: 98 Resp: 909612

Ion Ratio Lower Upper

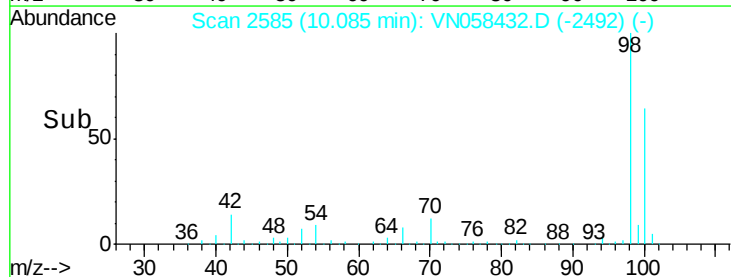
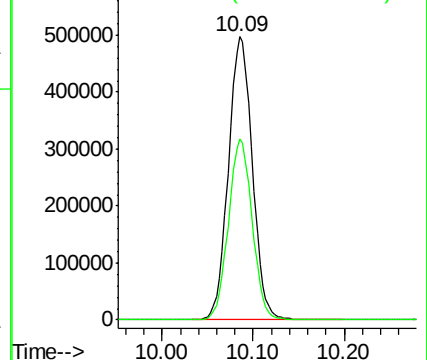
98 100

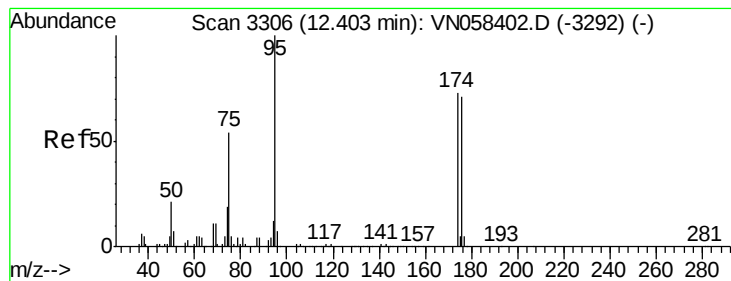
100 63.3 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#62

4-Bromofluorobenzene

Concen: 43.278 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058432.D

Acq: 30 Sep 2019 14:05

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ145D-20190924

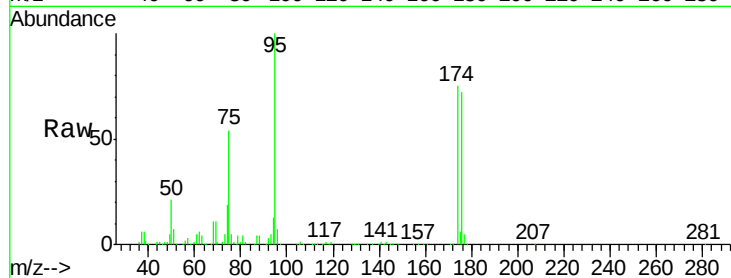
Tot Ion: 95 Resp: 270330

Ion Ratio Lower Upper

95 100

174 76.0 0.0 150.6

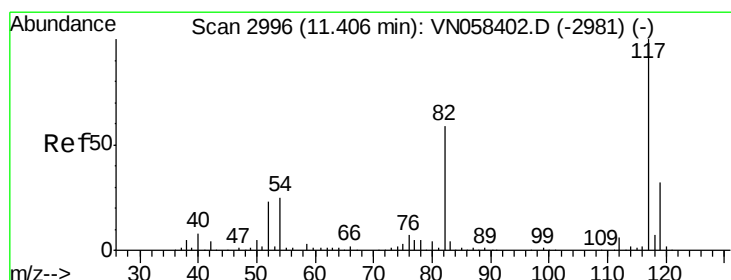
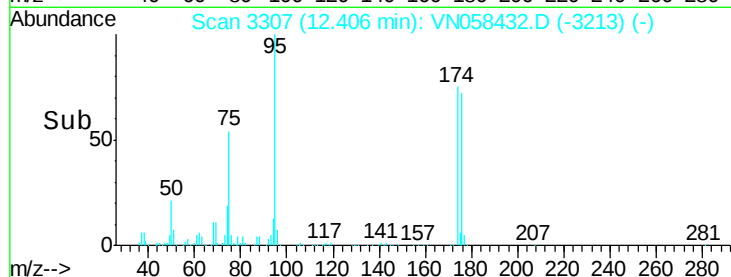
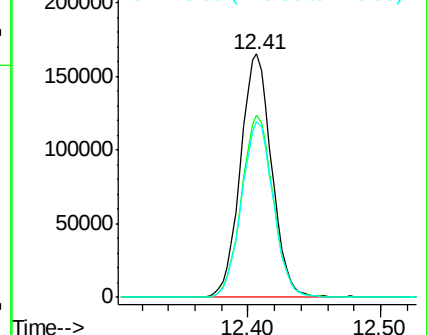
176 73.5 0.0 146.2



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN058432.D

Acq: 30 Sep 2019 14:05

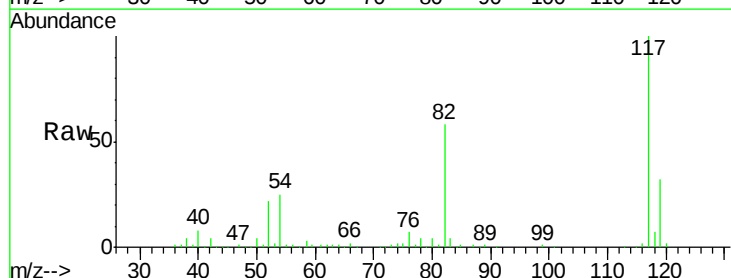
Tgt Ion: 117 Resp: 595893

Ion Ratio Lower Upper

117 100

82 57.8 47.4 71.0

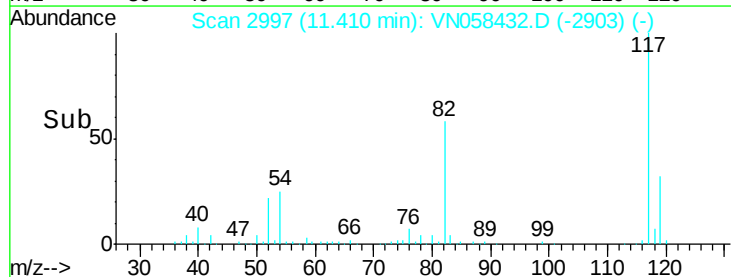
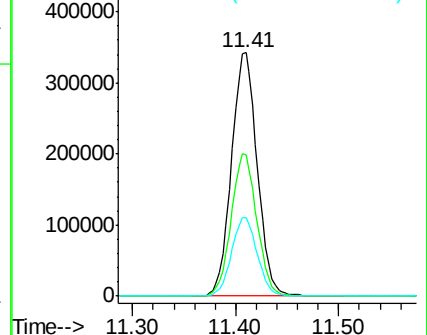
119 32.2 25.5 38.3

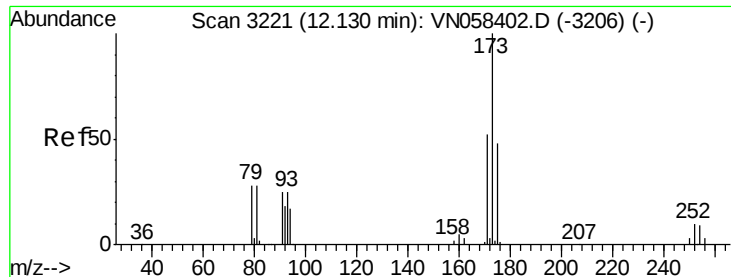


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#71

Bromoform

Concen: 0.708 ug/l

RT: 12.38 min Scan# 3300

Delta R.T. 0.25 min

Lab File: VN058432.D

Acq: 30 Sep 2019 14:05

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ145D-20190924

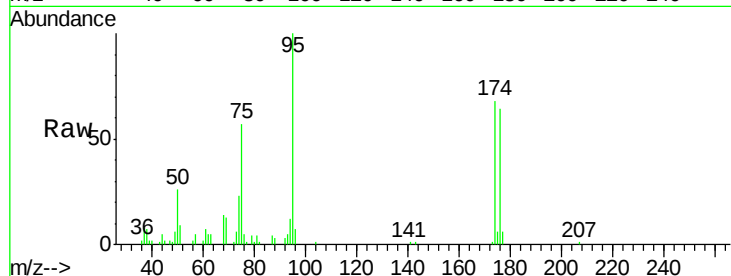
Tot Ion:173 Resp: 36

Ion Ratio Lower Upper

173 100

175 0.0 24.3 73.0#

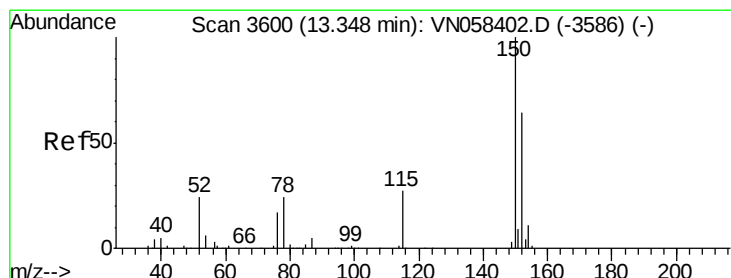
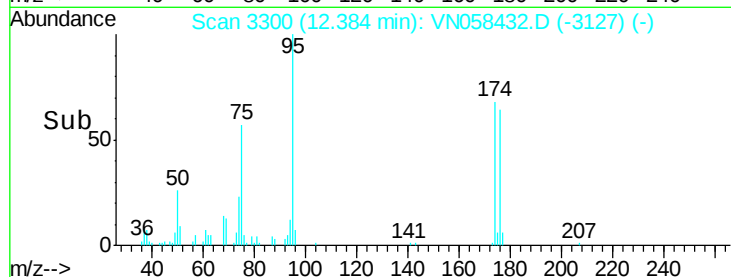
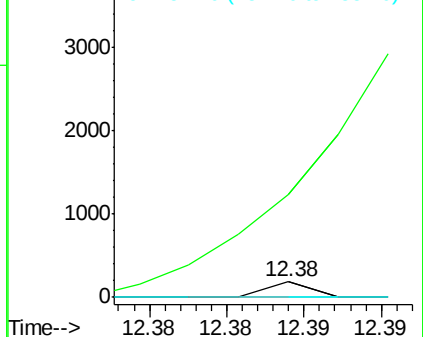
254 0.0 0.1 0.1#



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# 3600

Delta R.T. 0.00 min

Lab File: VN058432.D

Acq: 30 Sep 2019 14:05

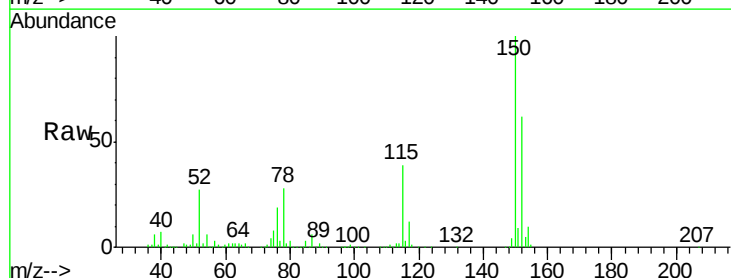
Tgt Ion:152 Resp: 213125

Ion Ratio Lower Upper

152 100

115 62.0 30.0 90.0

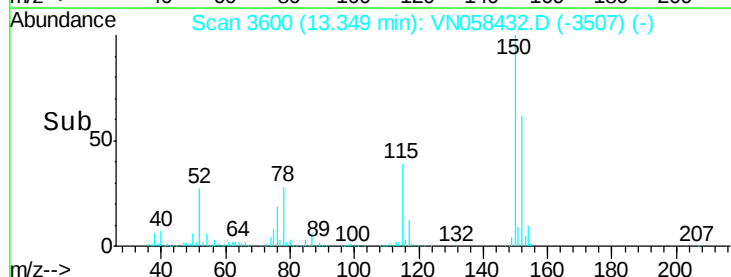
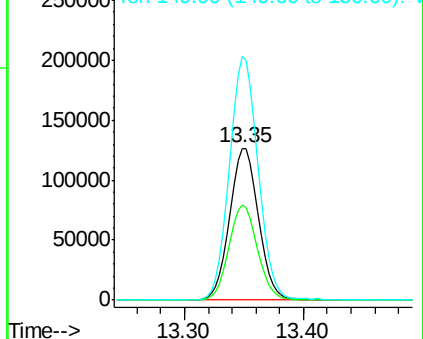
150 159.0 0.0 348.2

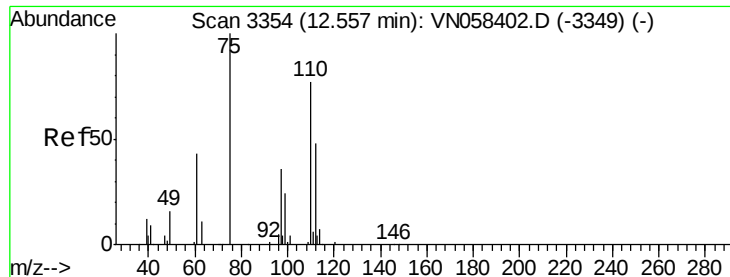


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 38.824 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058432.D

Acq: 30 Sep 2019 14:05

Instrument :

MSVOA_N

ClientSampleId :

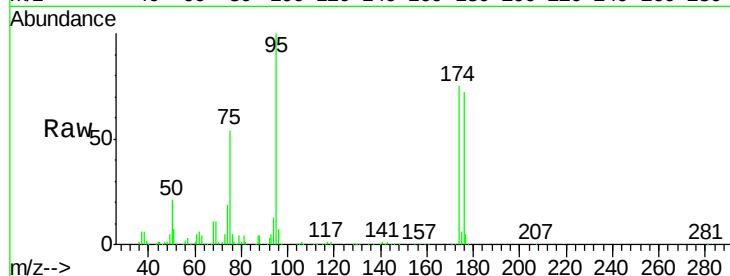
SA-PZ145D-20190924

Tot Ion: 75 Resp: 151133

Ion Ratio Lower Upper

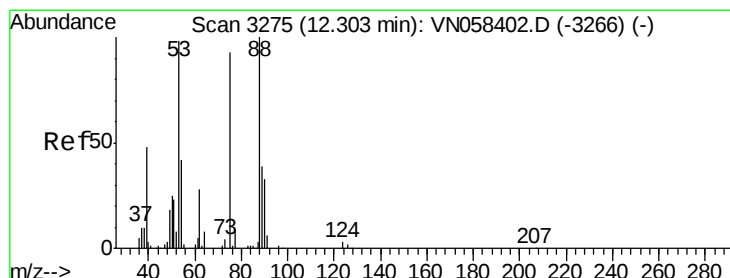
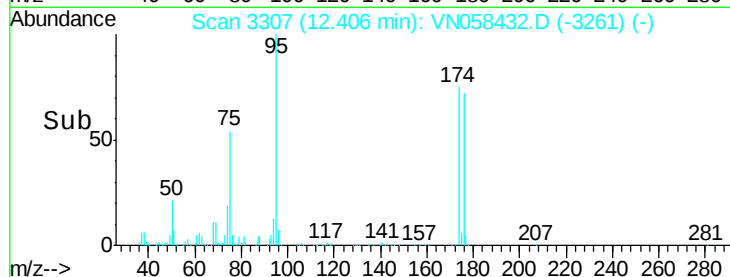
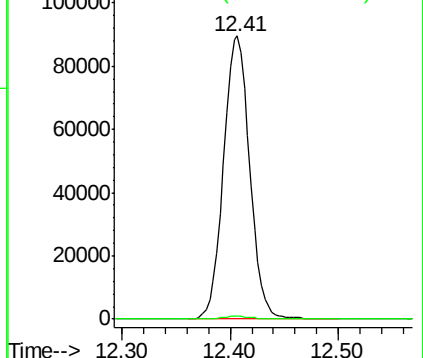
75 100

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: 117.914 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058432.D

Acq: 30 Sep 2019 14:05

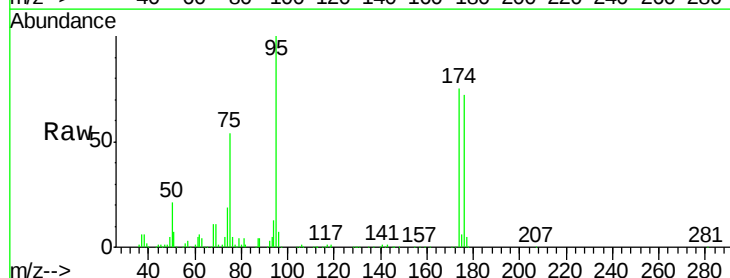
Tgt Ion: 75 Resp: 151133

Ion Ratio Lower Upper

75 100

53 0.0 85.4 128.0#

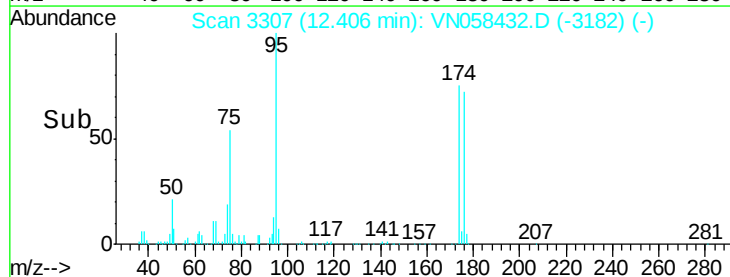
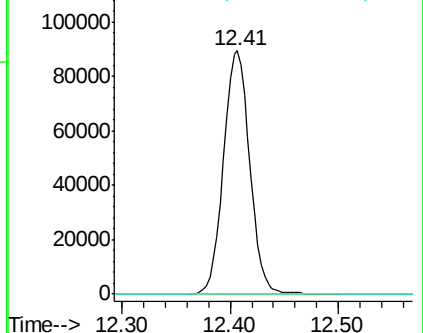
89 0.0 35.0 52.4#

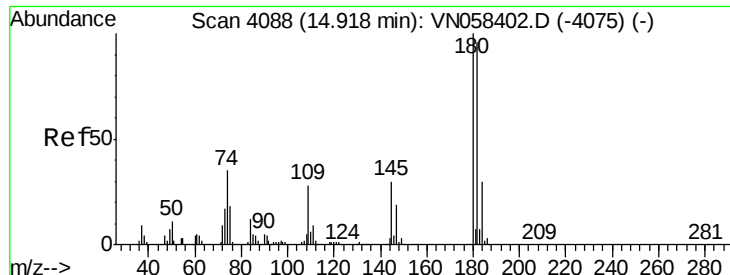


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#93

1,2,4-Trichlorobenzene

Concen: 0.240 ug/l

RT: 14.92 min Scan# 4090

Delta R.T. 0.01 min

Lab File: VN058432.D

Acq: 30 Sep 2019 14:05

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ145D-20190924

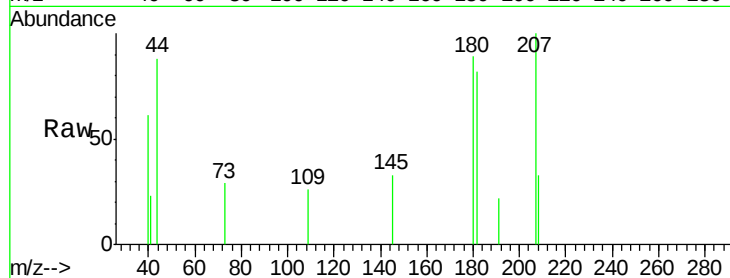
Tot Ion:180 Resp: 852

Ion Ratio Lower Upper

180 100

182 119.8 47.4 142.3

145 25.5 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

800

600

400

200

0

14.90 14.92 14.95

Time-->

