

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092319\
 Data File : VN058300.D
 Acq On : 23 Sep 2019 18:05
 Operator : JC/SP
 Sample : K4975-18
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EB02-20190918RE

Quant Time: Sep 24 01:35:14 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	469991	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	763859	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	650213	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	247155	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	349062	53.32	ug/l	0.00
Spiked Amount						
			Recovery	=	106.64%	
35) Dibromofluoromethane	7.58	113	243435	52.42	ug/l	0.00
Spiked Amount						
			Recovery	=	104.84%	
50) Toluene-d8	10.09	98	960347	53.08	ug/l	0.00
Spiked Amount						
			Recovery	=	106.16%	
62) 4-Bromofluorobenzene	12.41	95	300161	44.66	ug/l	0.00
Spiked Amount						
			Recovery	=	89.32%	

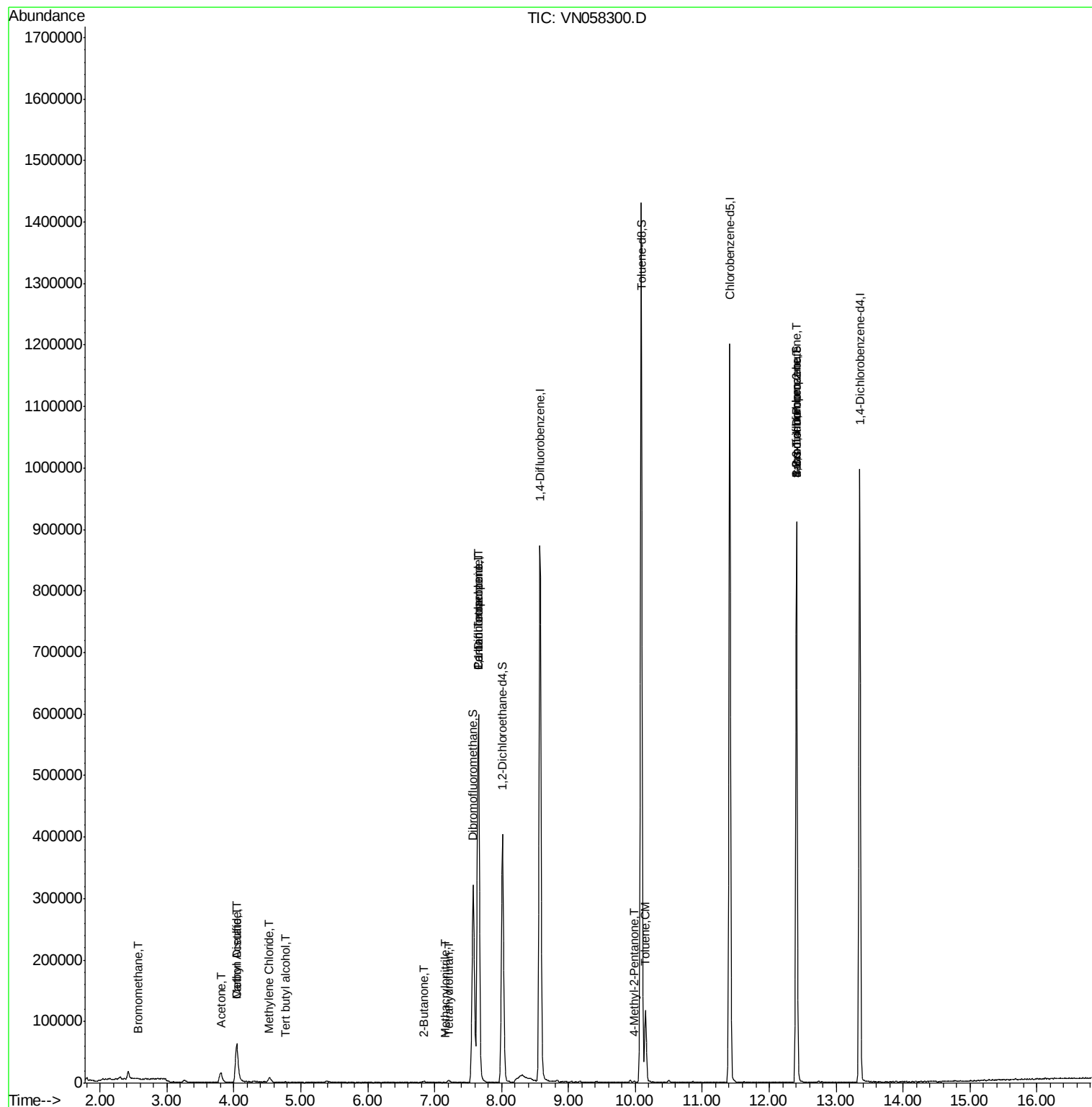
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	1286	Below Cal		98
5) Bromomethane	2.57	94	174	0.822 ug/l #		4
6) Chloroethane	2.54	64	74	Below Cal #		44
11) Tert butyl alcohol	4.77	59	1202	1.544 ug/l #		71
16) Acetone	3.81	43	31457	14.157 ug/l #		88
17) Carbon Disulfide	4.04	76	265	0.336 ug/l #		74
18) Methyl Acetate	4.04	43	27092	4.634 ug/l #		53
20) Methylene Chloride	4.52	84	5418	1.176 ug/l #		81
25) 2-Butanone	6.84	43	2656	0.877 ug/l #		94
29) Tetrahydrofuran	7.21	42	2581	1.384 ug/l #		62
31) Cyclohexane	7.65	56	11979	Below Cal #		7
36) 1,1-Dichloropropene	7.65	75	41280	7.494 ug/l #		50
38) Carbon Tetrachloride	7.65	117	49577	8.953 ug/l #		14
41) Methacrylonitrile	7.16	41	67	0.934 ug/l #		100
51) 4-Methyl-2-Pentanone	9.98	43	1633	0.288 ug/l #		37
52) Toluene	10.15	92	46151	4.377 ug/l		99
71) Bromoform	12.41	173	1137	3.938 ug/l #		1
76) 1,2,3-Trichloropropane	12.41	75	165028	37.309 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.41	75	165028	103.985 ug/l #		5

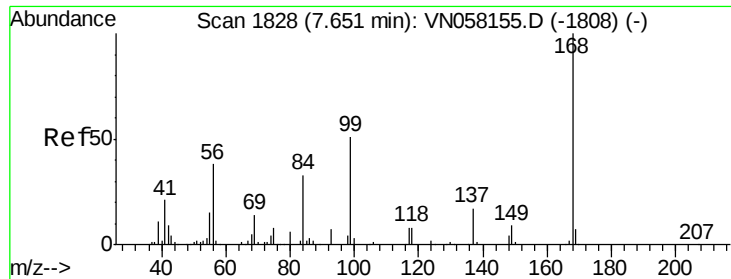
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN058300.D

Acq: 23 Sep 2019 18:05

Instrument :

MSVOA_N

ClientSampleId :

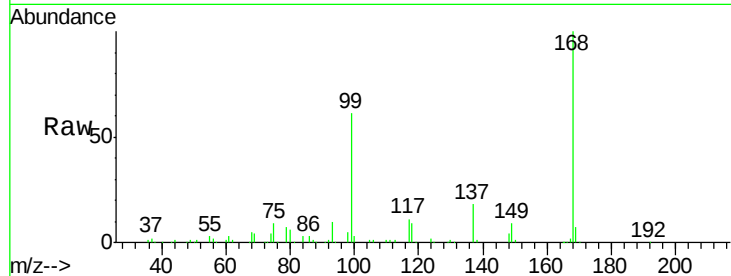
EB02-20190918RE

Tot Ion:168 Resp: 469991

Ion Ratio Lower Upper

168 100

99 61.0 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

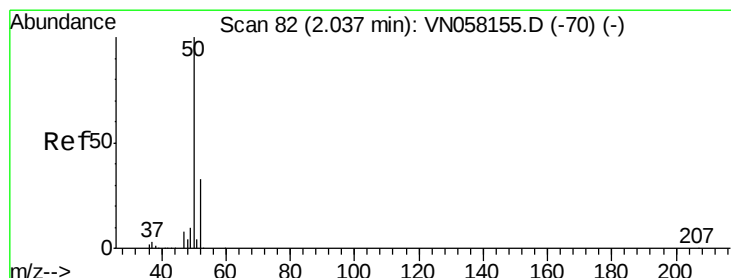
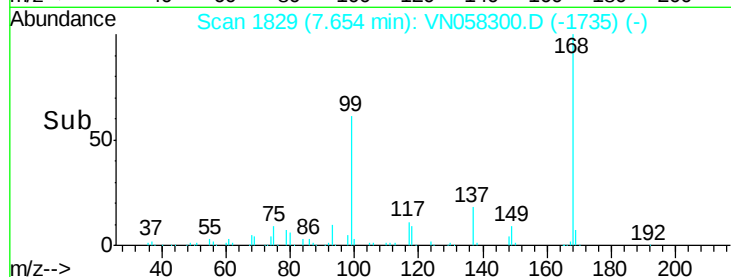
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN058300.D

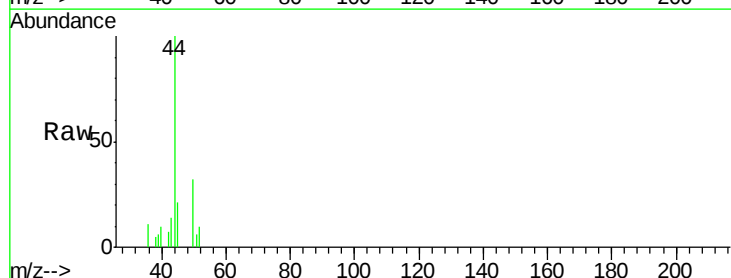
Acq: 23 Sep 2019 18:05

Tgt Ion: 50 Resp: 1286

Ion Ratio Lower Upper

50 100

52 31.9 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.03

1000

800

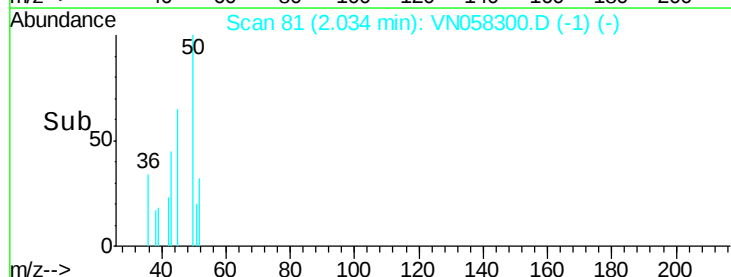
600

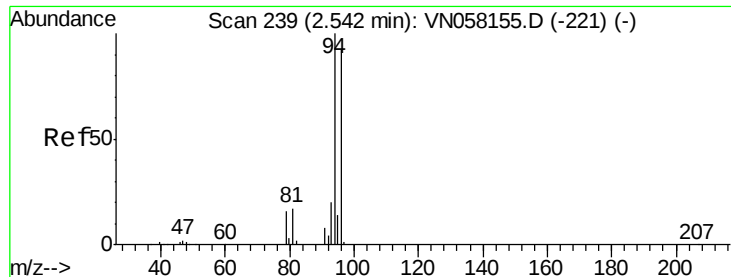
400

200

0

Time--> 2.00 2.02 2.04 2.06 2.08





#5

Bromomethane

Concen: 0.822 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.03 min

Lab File: VN058300.D

Acq: 23 Sep 2019 18:05

Instrument :

MSVOA_N

ClientSampleId :

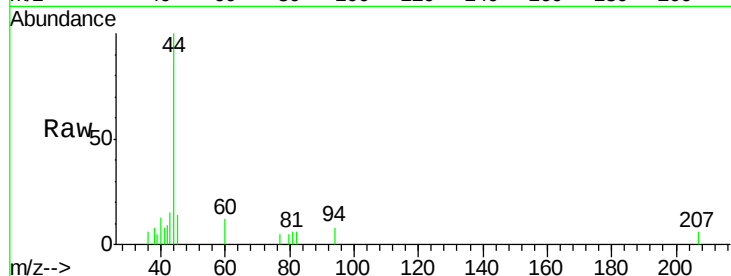
EB02-20190918RE

Tot Ion: 94 Resp: 174

Ion Ratio Lower Upper

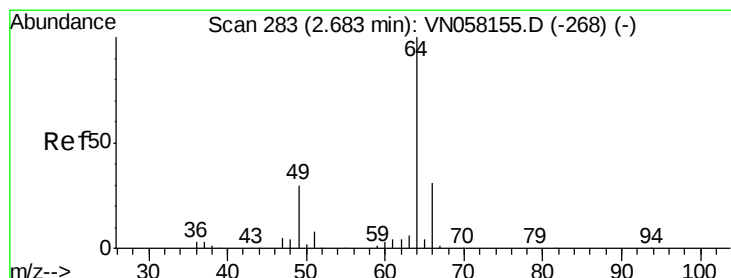
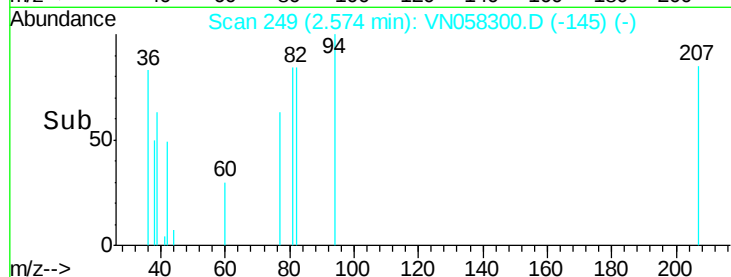
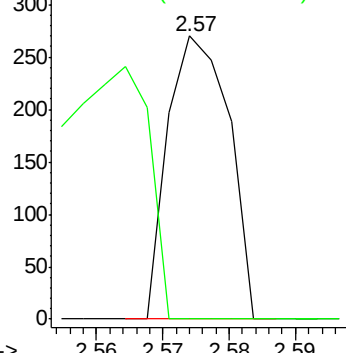
94 100

96 0.0 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: 2.54 min Scan# 238

Delta R.T. -0.14 min

Lab File: VN058300.D

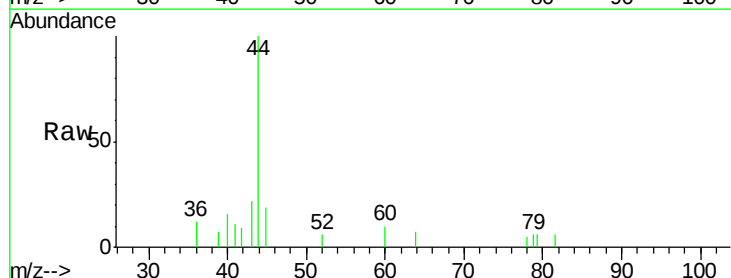
Acq: 23 Sep 2019 18:05

Tgt Ion: 64 Resp: 74

Ion Ratio Lower Upper

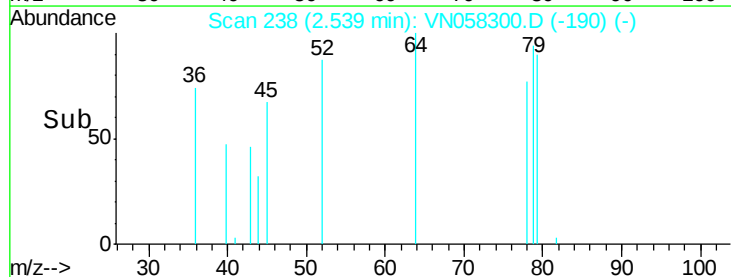
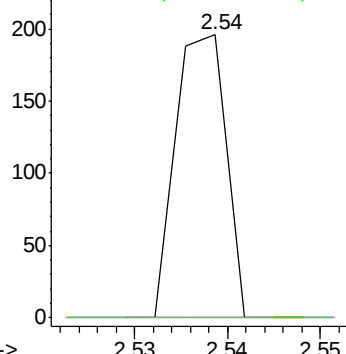
64 100

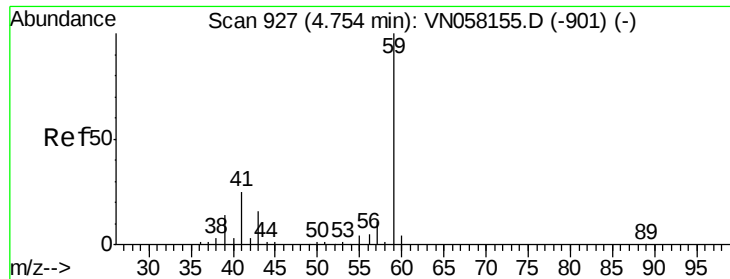
66 0.0 24.6 37.0#



Abundance Ion 63.90 (63.60 to 64.60): VNC

Ion 65.90 (65.60 to 66.60): VNC

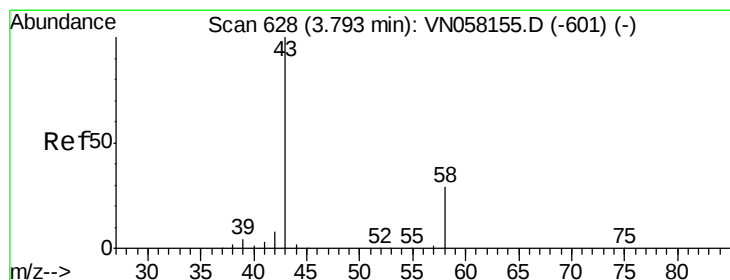
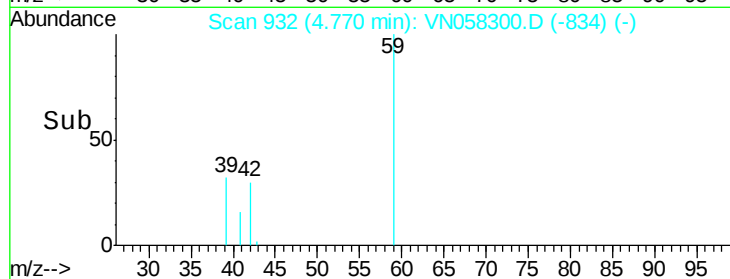
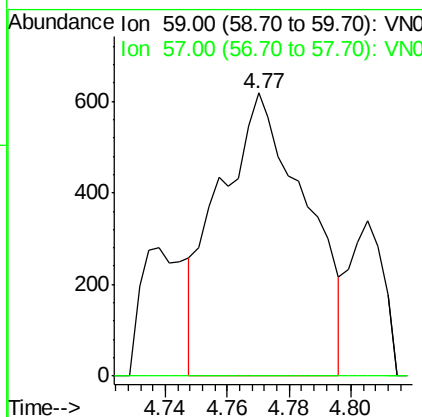
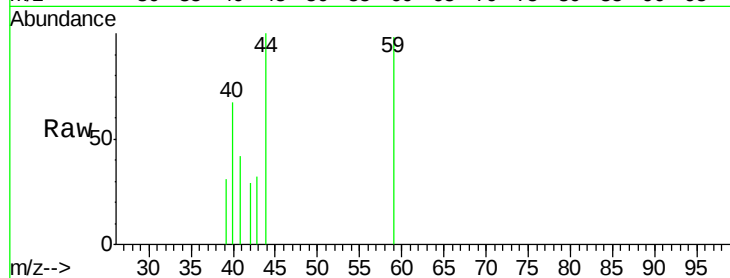




#11
Tert butyl alcohol
Concen: 1.544 ug/l
RT: 4.77 min Scan# 932
Delta R.T. 0.02 min
Lab File: VN058300.D
Acq: 23 Sep 2019 18:05

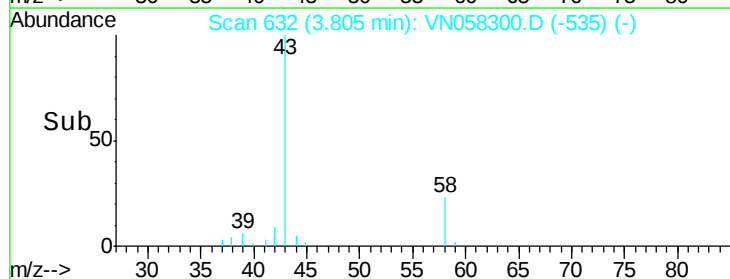
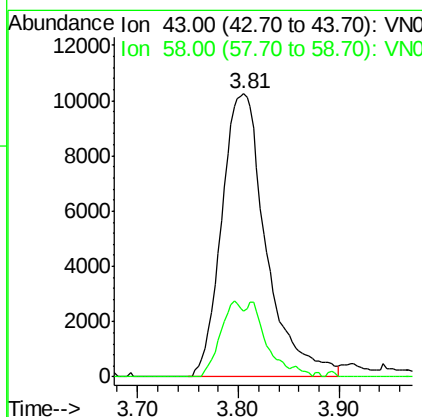
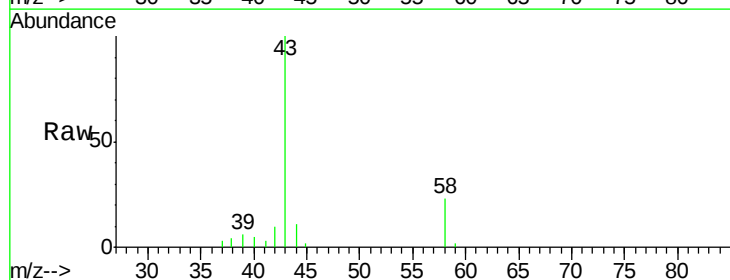
Instrument :
MSVOA_N
ClientSampleId :
EB02-20190918RE

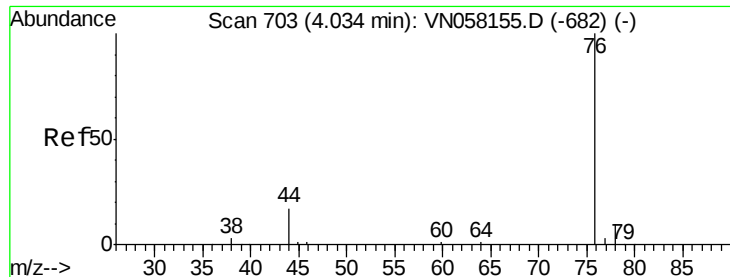
Tot Ion: 59 Resp: 1202
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#



#16
Acetone
Concen: 14.157 ug/l
RT: 3.81 min Scan# 632
Delta R.T. 0.01 min
Lab File: VN058300.D
Acq: 23 Sep 2019 18:05

Tgt Ion: 43 Resp: 31457
Ion Ratio Lower Upper
43 100
58 23.0 23.4 35.2#





#17

Carbon Disulfide

Concen: 0.336 ug/l

RT: 4.04 min Scan# 705

Delta R.T. 0.01 min

Lab File: VN058300.D

Acq: 23 Sep 2019 18:05

Instrument :

MSVOA_N

ClientSampleId :

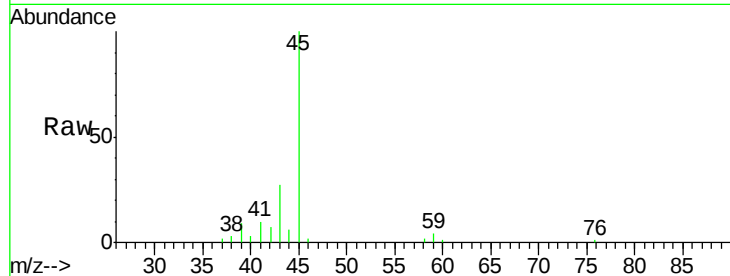
EB02-20190918RE

Tot Ion: 76 Resp: 265

Ion Ratio Lower Upper

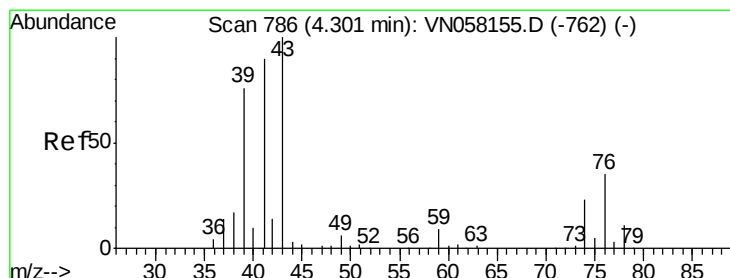
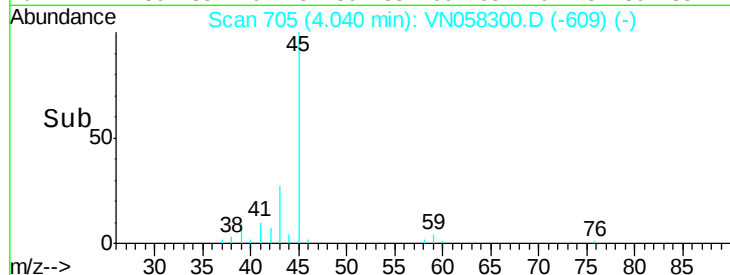
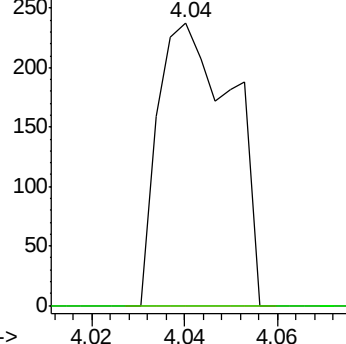
76 100

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



#18

Methyl Acetate

Concen: 4.634 ug/l

RT: 4.04 min Scan# 706

Delta R.T. -0.26 min

Lab File: VN058300.D

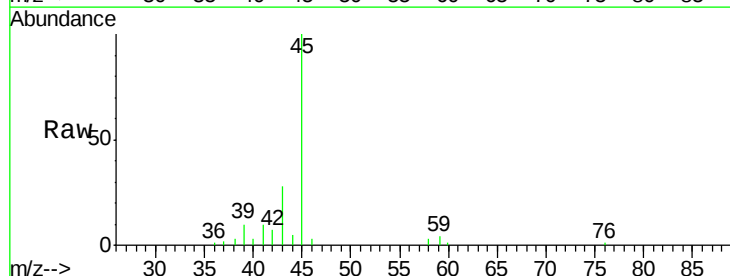
Acq: 23 Sep 2019 18:05

Tgt Ion: 43 Resp: 27092

Ion Ratio Lower Upper

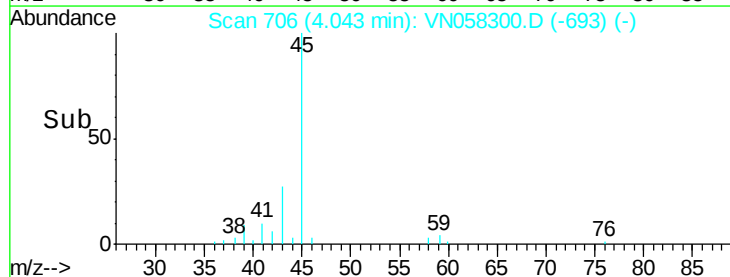
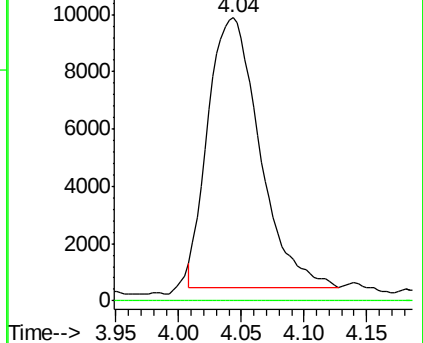
43 100

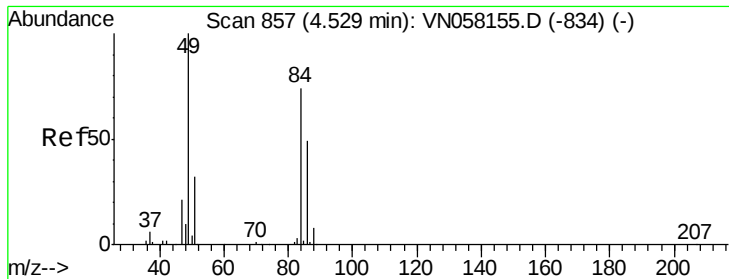
74 0.0 18.0 27.0#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 74.00 (73.70 to 74.70): VNO

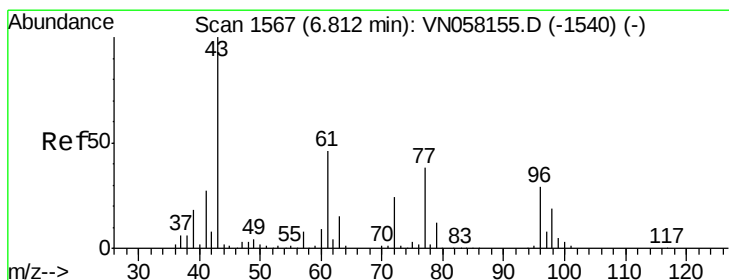
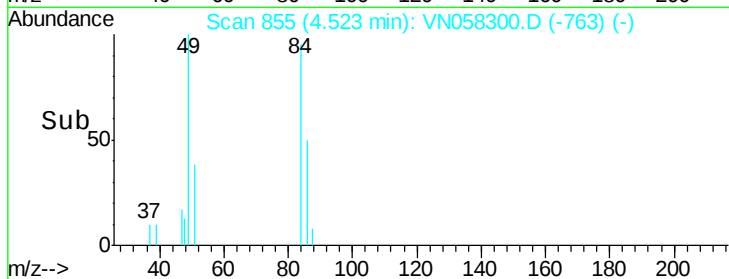
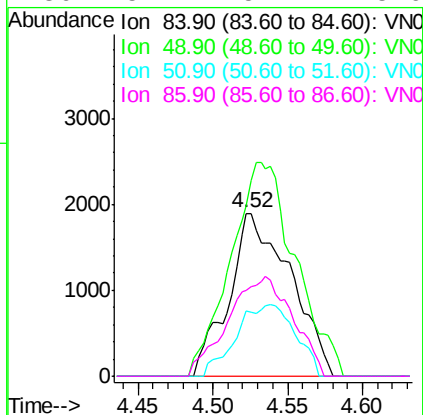
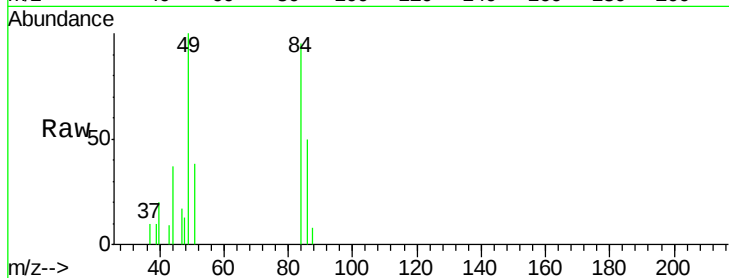




#20
Methylene Chloride
Concen: 1.176 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.01 min
Lab File: VN058300.D
Acq: 23 Sep 2019 18:05

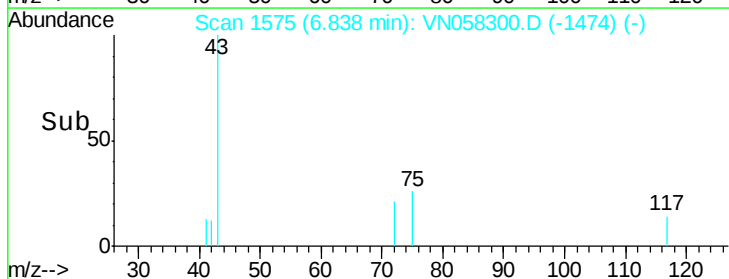
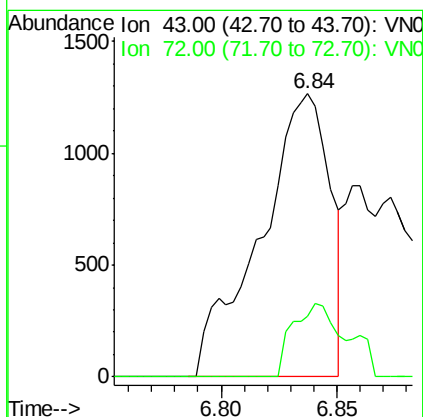
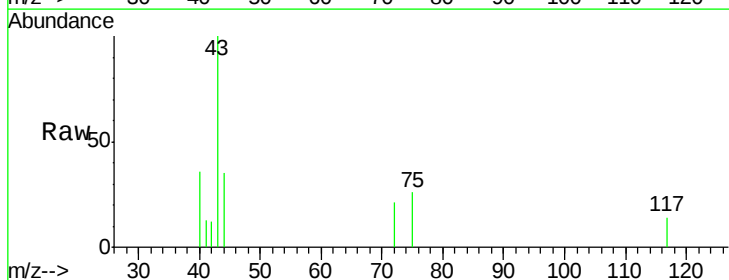
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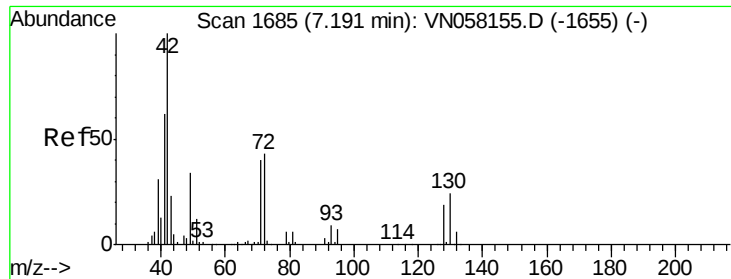
Tot Ion: 84 Resp: 5418
Ion Ratio Lower Upper
84 100
49 104.8 107.5 161.3#
51 40.2 33.9 50.9
86 52.7 52.4 78.6



#25
2-Butanone
Concen: 0.877 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.03 min
Lab File: VN058300.D
Acq: 23 Sep 2019 18:05

Tgt Ion: 43 Resp: 2656
Ion Ratio Lower Upper
43 100
72 21.3 19.5 29.3

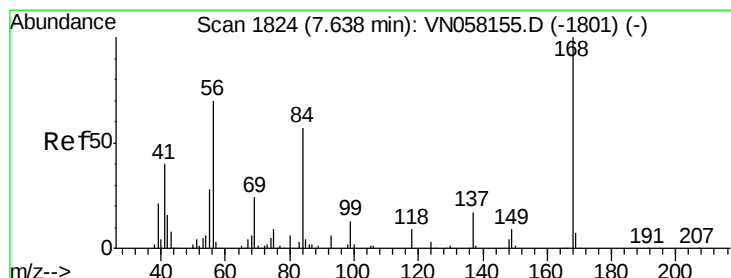
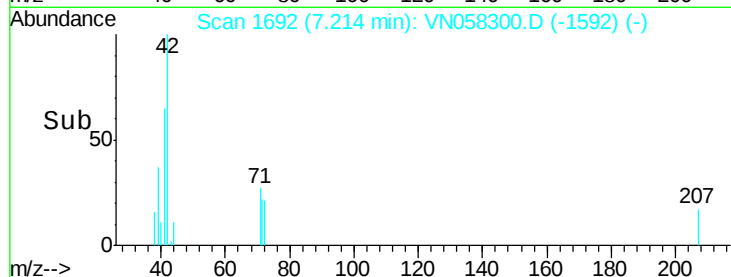
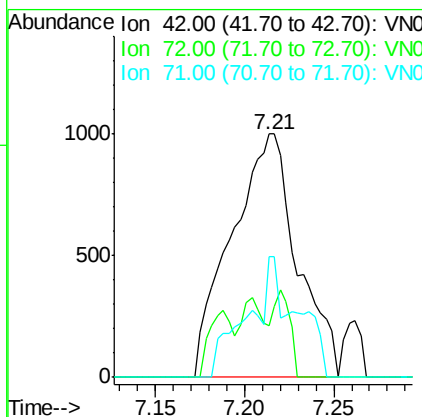
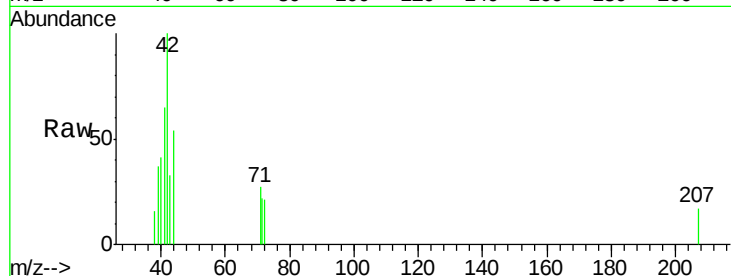




#29
Tetrahydrofuran
Concen: 1.384 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.02 min
Lab File: VN058300.D
Acq: 23 Sep 2019 18:05

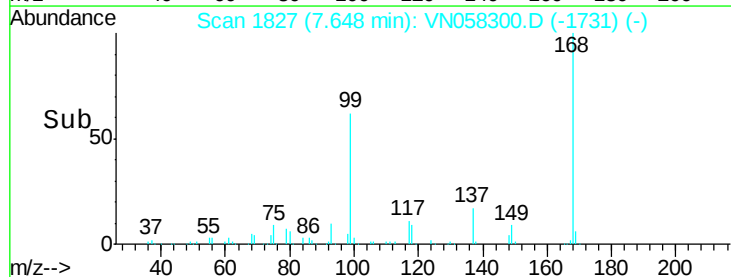
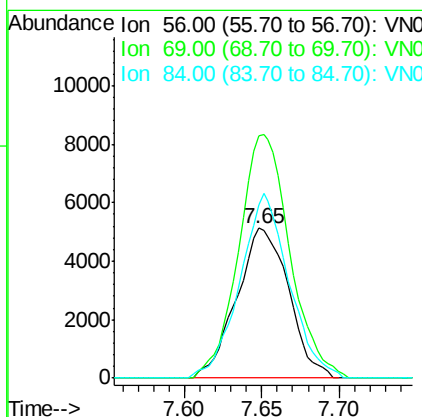
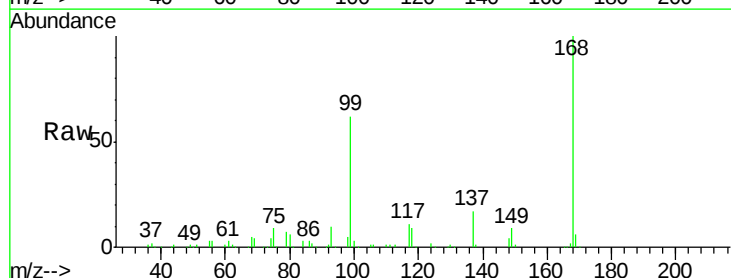
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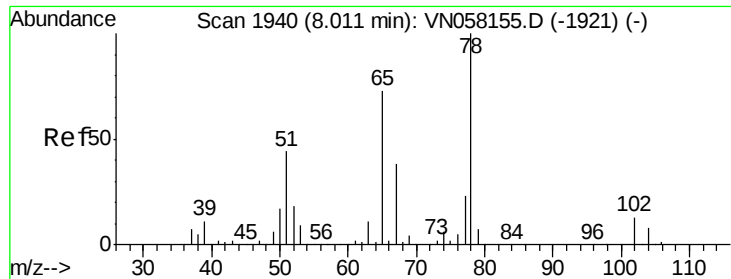
Tot Ion: 42 Resp: 2581
Ion Ratio Lower Upper
42 100
72 8.7 33.8 50.6#
71 25.6 31.4 47.0#



#31
Cyclohexane
Concen: Below Cal
RT: 7.65 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VN058300.D
Acq: 23 Sep 2019 18:05

Tgt Ion: 56 Resp: 11979
Ion Ratio Lower Upper
56 100
69 161.7 27.3 40.9#
84 115.5 65.0 97.4#

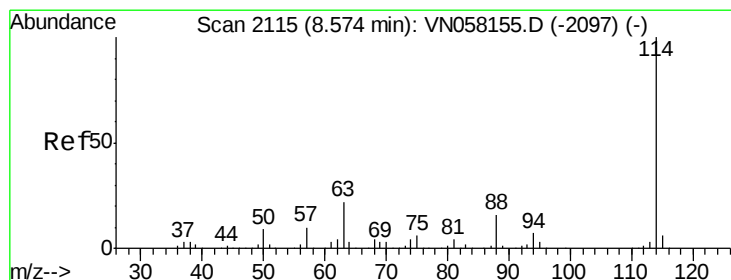
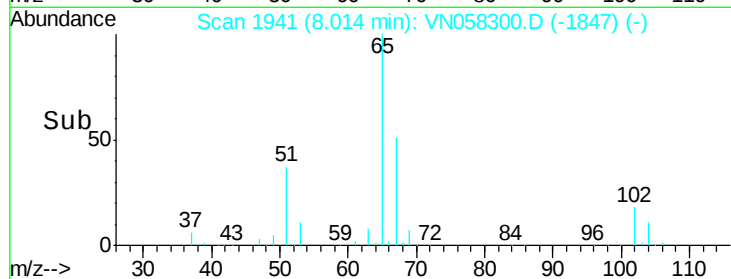
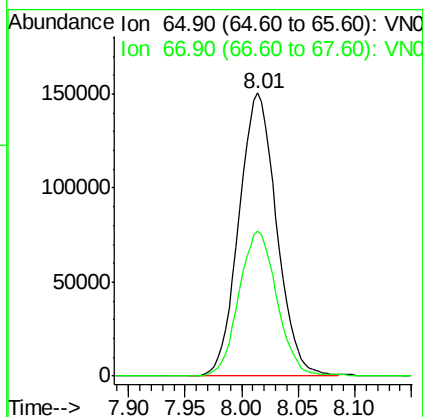
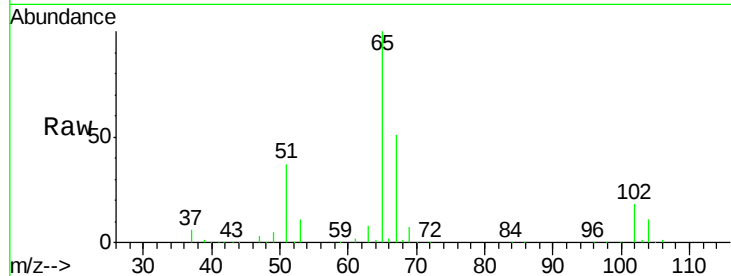




#33
 1,2-Dichloroethane-d4
 Concen: 53.324 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN058300.D
 Acq: 23 Sep 2019 18:05

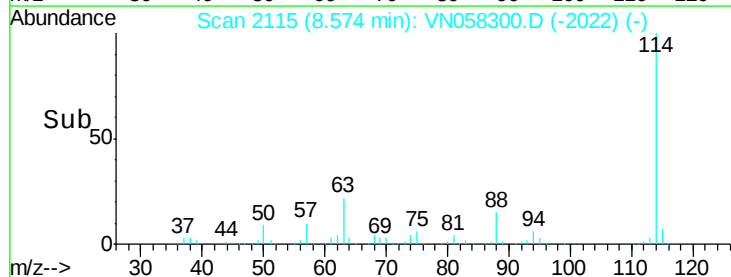
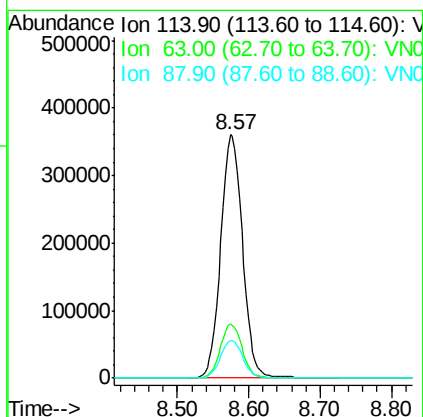
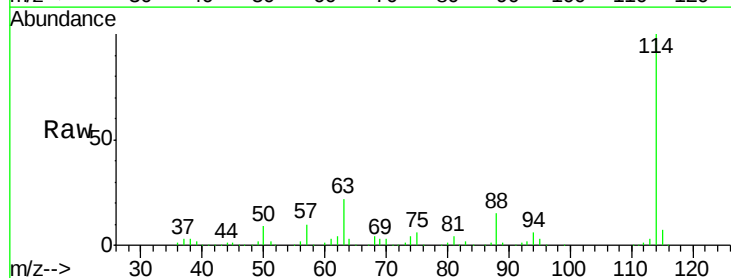
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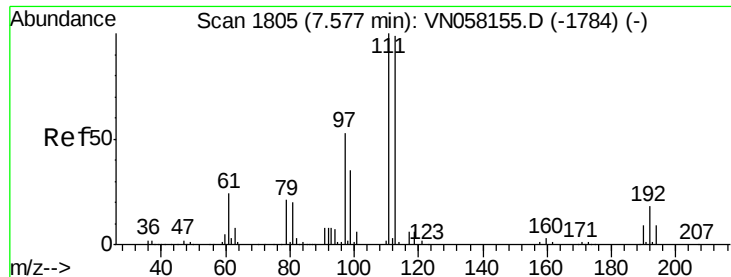
Tot Ion: 65 Resp: 349062
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058300.D
 Acq: 23 Sep 2019 18:05

Tgt Ion: 114 Resp: 763859
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 44.2
 88 15.4 0.0 31.6

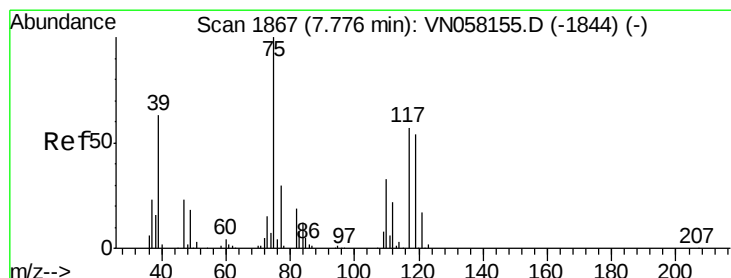
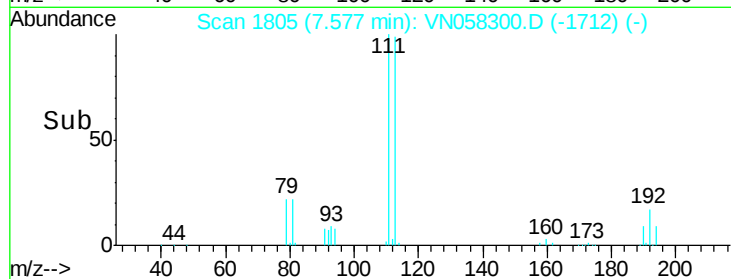
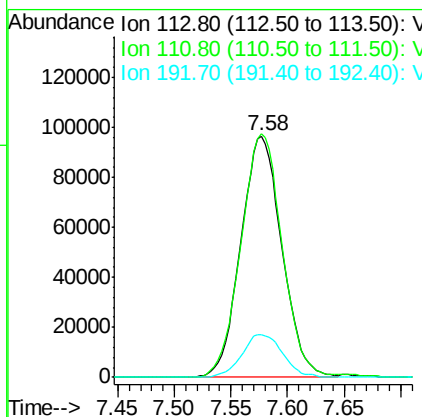
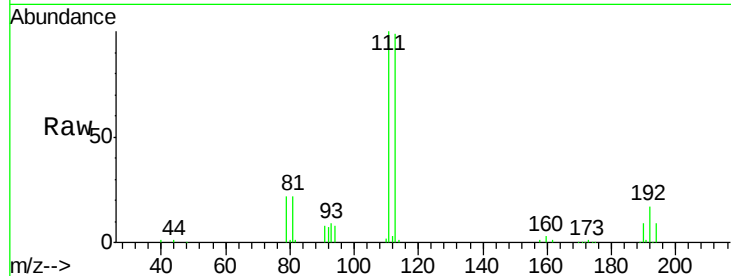




#35
 Dibromofluoromethane
 Concen: 52.423 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058300.D
 Acq: 23 Sep 2019 18:05

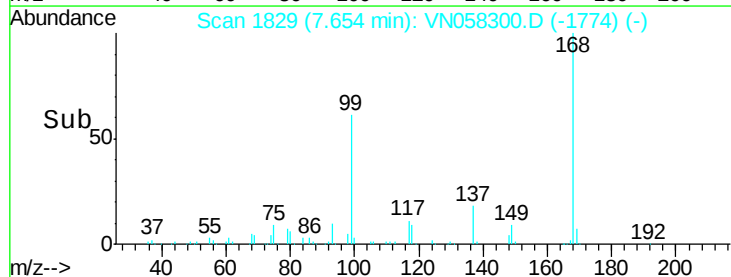
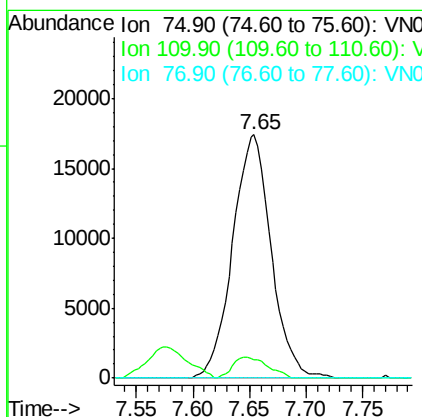
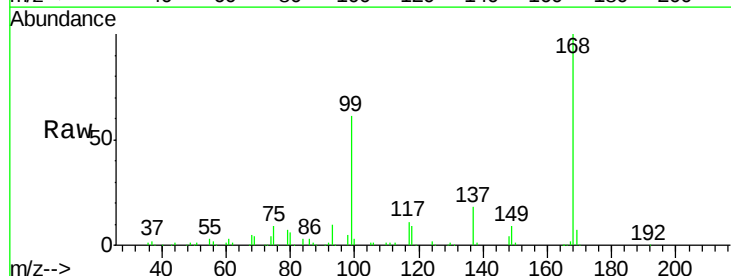
Instrument :
 MSVOA_N
 ClientSampleId :
 EB02-20190918RE

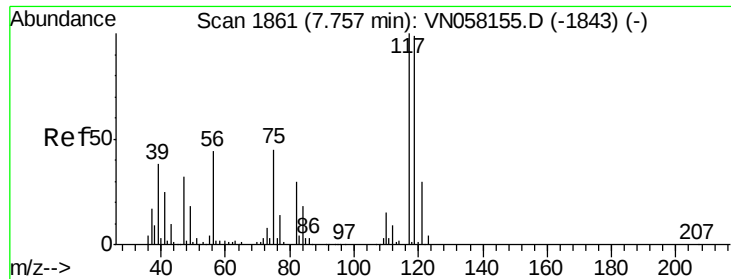
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.6	81.8	122.6
192	17.8	14.5	21.7



#36
 1,1-Dichloropropene
 Concen: 7.494 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN058300.D
 Acq: 23 Sep 2019 18:05

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.7	16.6	49.7#
77	0.0	24.3	36.5#





#38

Carbon Tetrachloride

Concen: 8.953 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058300.D

Acq: 23 Sep 2019 18:05

Instrument :

MSVOA_N

ClientSampleId :

EB02-20190918RE

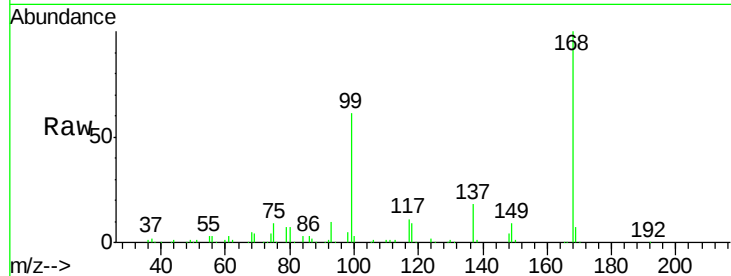
Tot Ion:117 Resp: 49577

Ion Ratio Lower Upper

117 100

119 4.1 78.6 117.8#

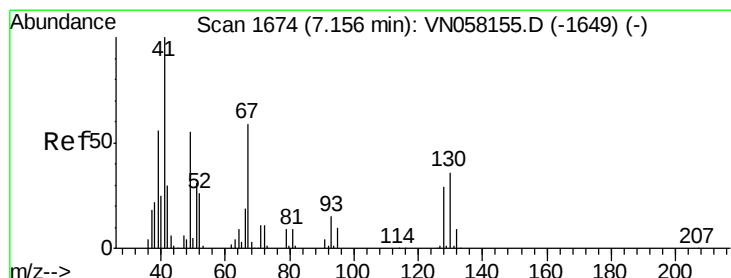
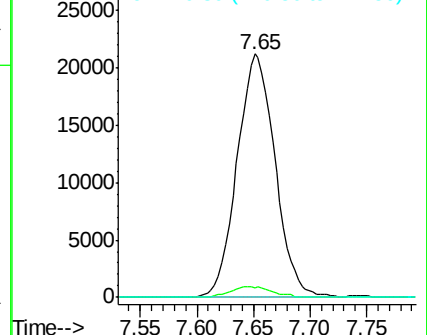
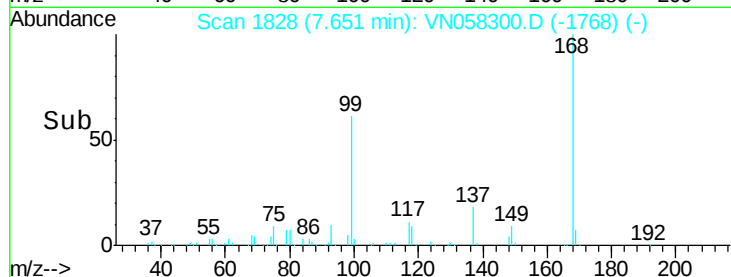
121 0.0 24.1 36.1#



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: 0.934 ug/l

RT: 7.16 min Scan# 1675

Delta R.T. 0.00 min

Lab File: VN058300.D

Acq: 23 Sep 2019 18:05

Tgt Ion: 41 Resp: 67

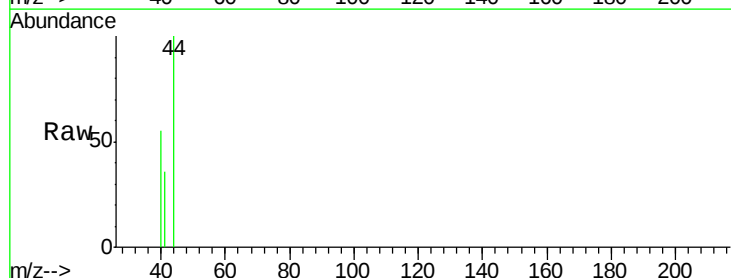
Ion Ratio Lower Upper

41 100

39 44.8 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

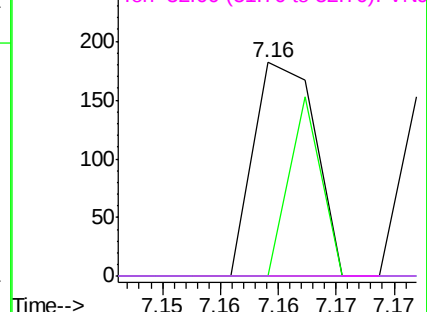
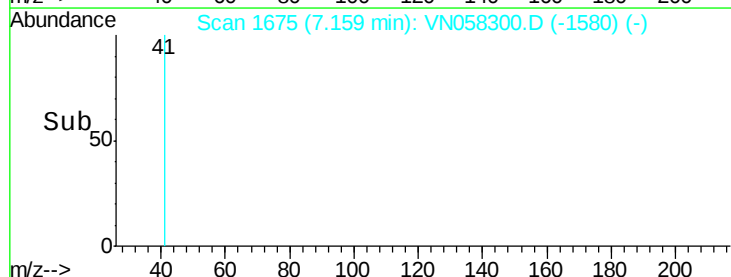


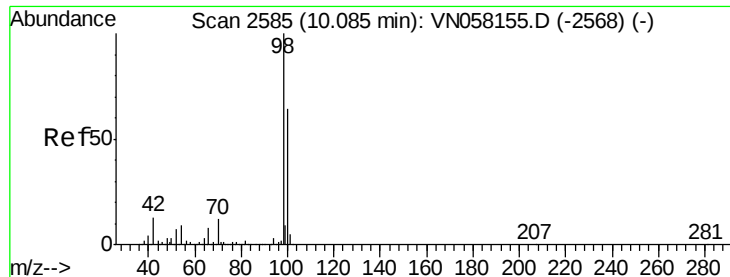
Abundance Ion 41.00 (40.70 to 41.70): V

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





#50

Toluene-d8

Concen: 53.080 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN058300.D

Acq: 23 Sep 2019 18:05

Instrument :

MSVOA_N

ClientSampleId :

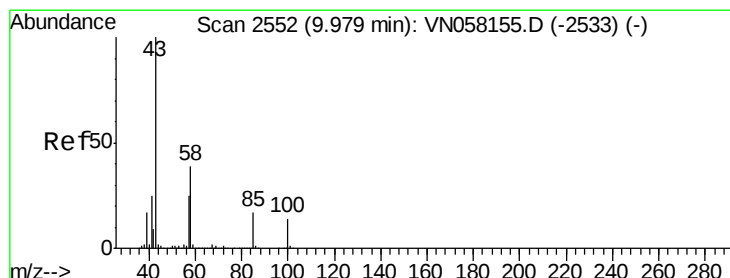
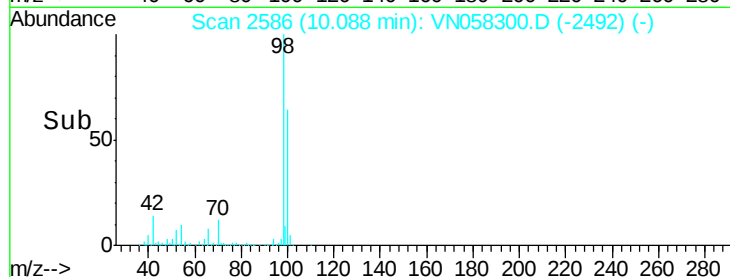
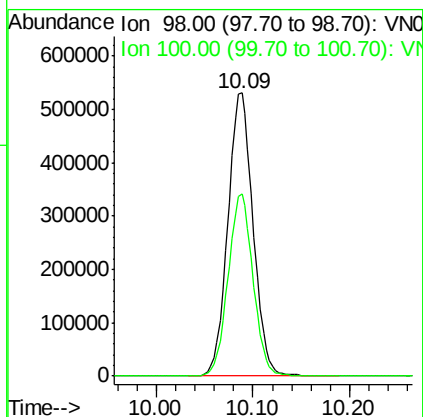
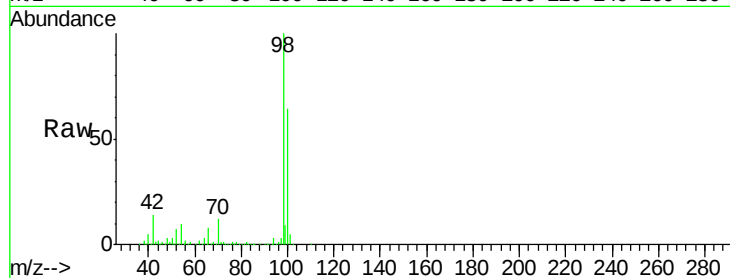
EB02-20190918RE

Tot Ion: 98 Resp: 960347

Ion Ratio Lower Upper

98 100

100 63.7 51.1 76.7



#51

4-Methyl-2-Pentanone

Concen: 0.288 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058300.D

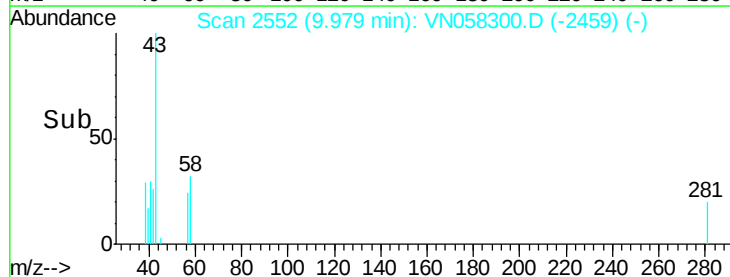
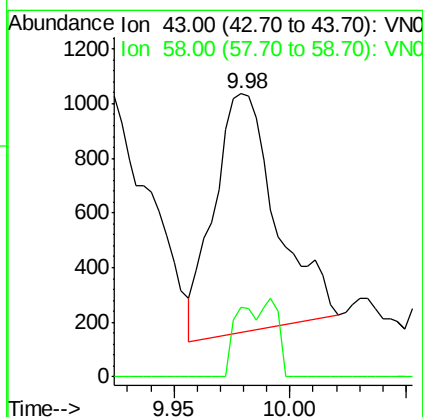
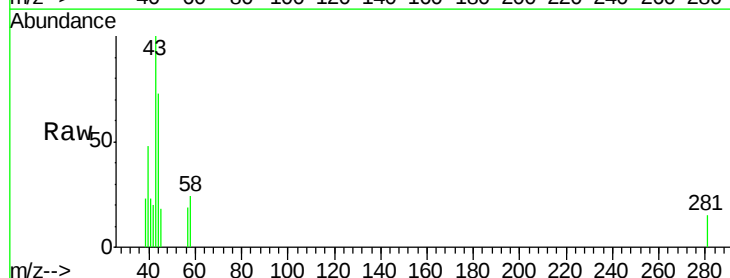
Acq: 23 Sep 2019 18:05

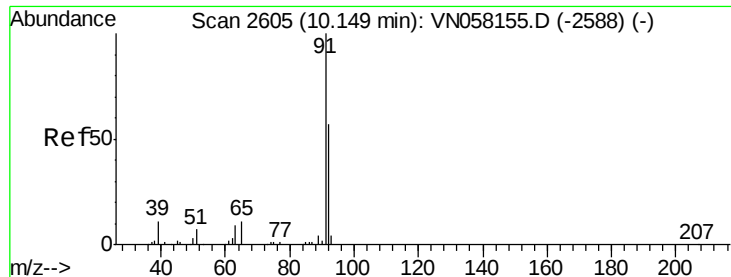
Tgt Ion: 43 Resp: 1633

Ion Ratio Lower Upper

43 100

58 0.0 30.2 45.4#





#52

Toluene

Concen: 4.377 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VN058300.D

Acq: 23 Sep 2019 18:05

Instrument :

MSVOA_N

ClientSampleId :

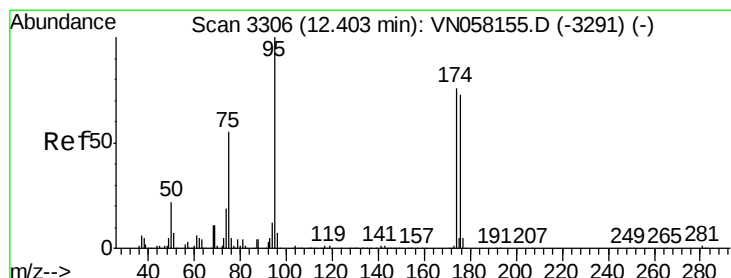
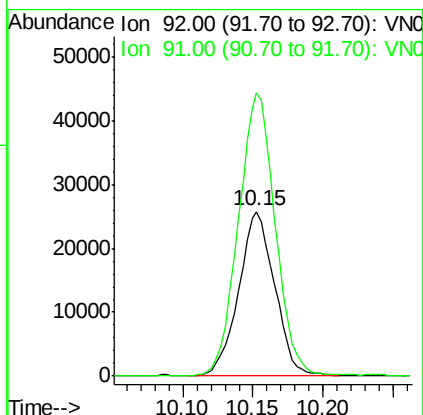
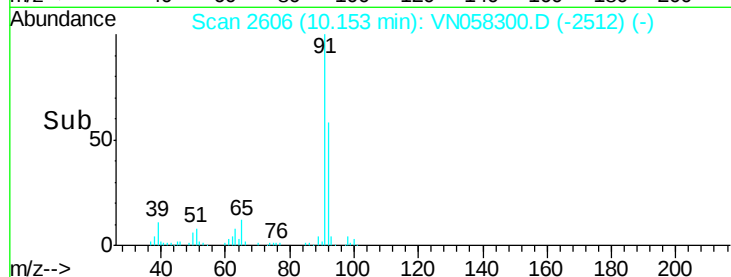
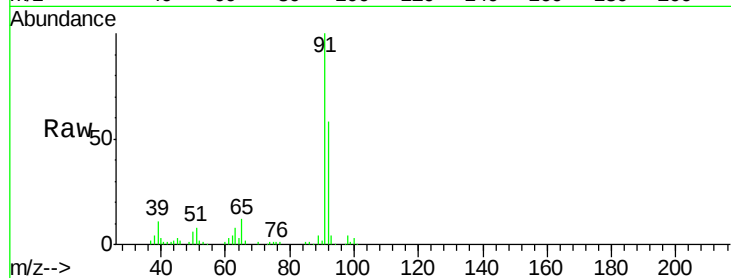
EB02-20190918RE

Tot Ion: 92 Resp: 46151

Ion Ratio Lower Upper

92 100

91 176.3 140.2 210.2



#62

4-Bromofluorobenzene

Concen: 44.662 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058300.D

Acq: 23 Sep 2019 18:05

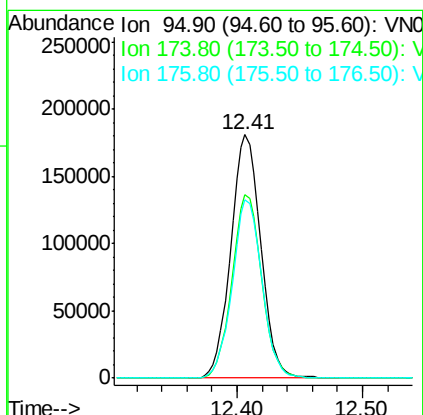
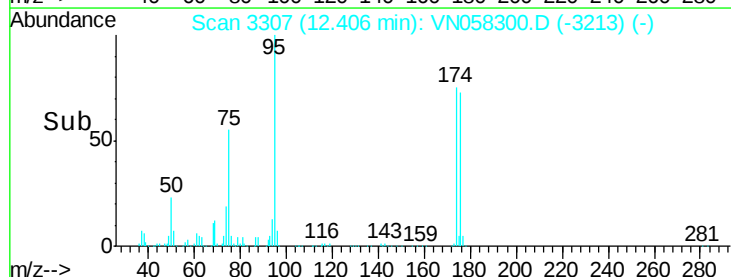
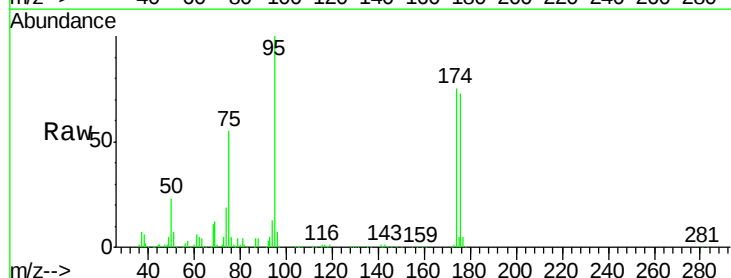
Tgt Ion: 95 Resp: 300161

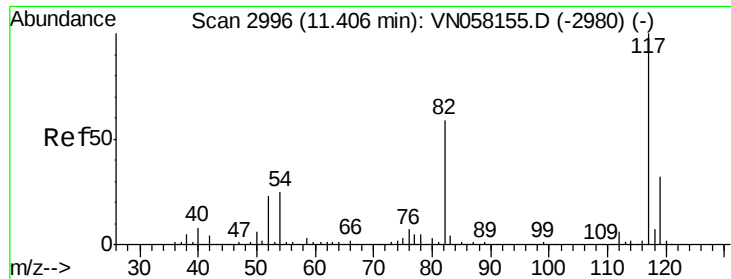
Ion Ratio Lower Upper

95 100

174 74.6 0.0 152.2

176 72.5 0.0 148.0

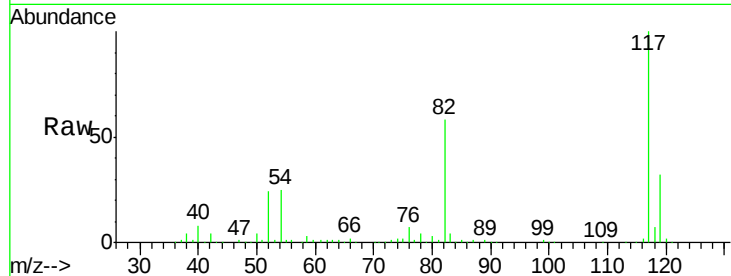




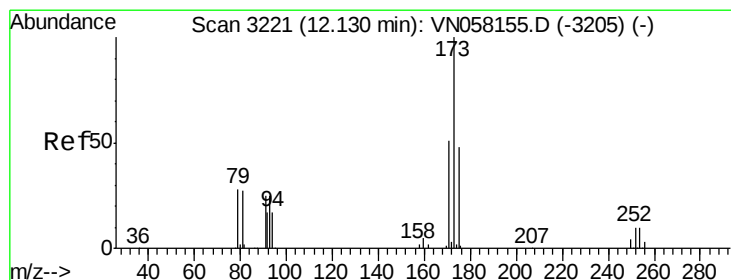
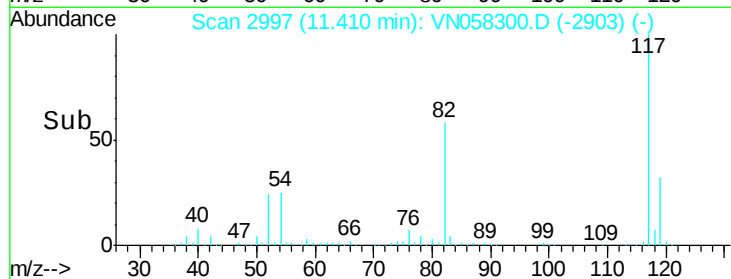
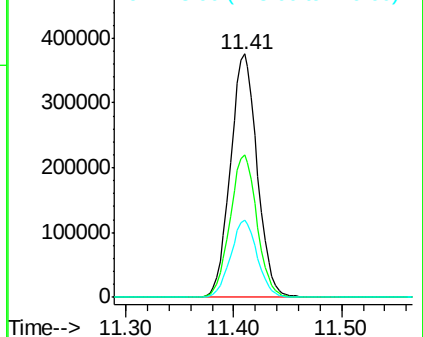
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN058300.D
Acq: 23 Sep 2019 18:05

Instrument :
MSVOA_N
ClientSampleId :
EB02-20190918RE

Tot Ion:117 Resp: 650213
Ion Ratio Lower Upper
117 100
82 58.3 46.9 70.3
119 31.7 25.3 37.9

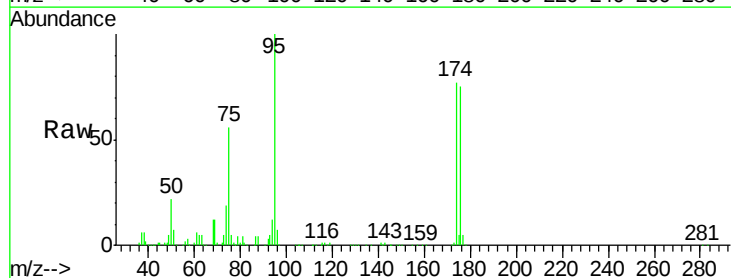


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

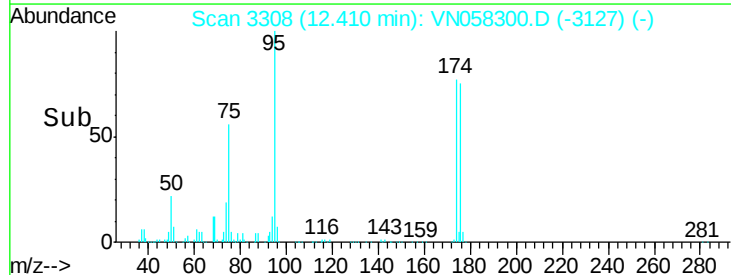
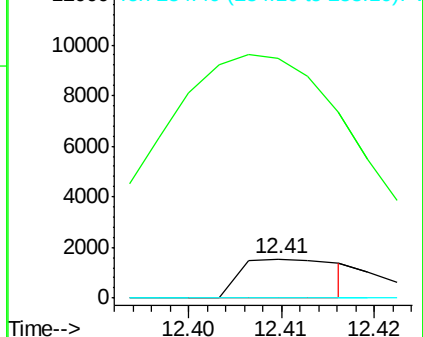


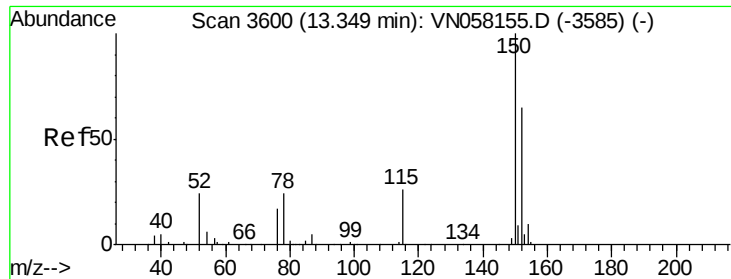
#71
Bromoform
Concen: 3.938 ug/l
RT: 12.41 min Scan# 3308
Delta R.T. 0.28 min
Lab File: VN058300.D
Acq: 23 Sep 2019 18:05

Tgt Ion:173 Resp: 1137
Ion Ratio Lower Upper
173 100
175 1184.5 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: VN058300.D

Acq: 23 Sep 2019 18:05

Instrument :

MSVOA_N

ClientSampleId :

EB02-20190918RE

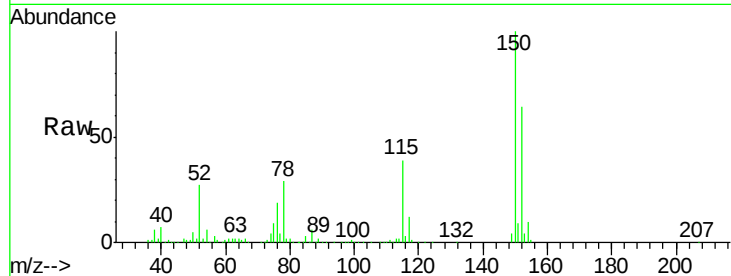
Tot Ion:152 Resp: 247155

Ion Ratio Lower Upper

152 100

115 61.5 30.1 90.3

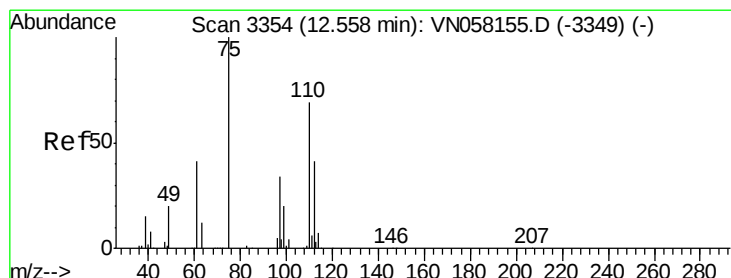
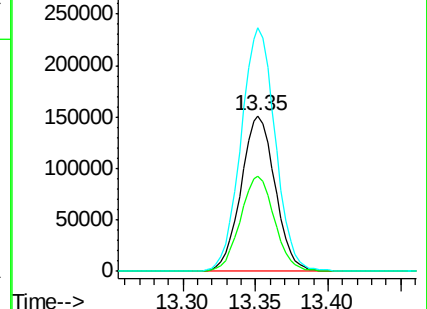
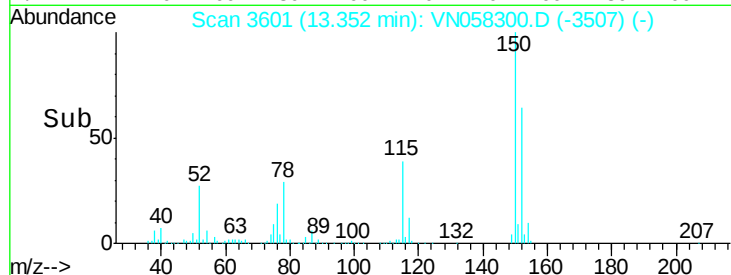
150 157.2 0.0 346.4



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: 37.309 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058300.D

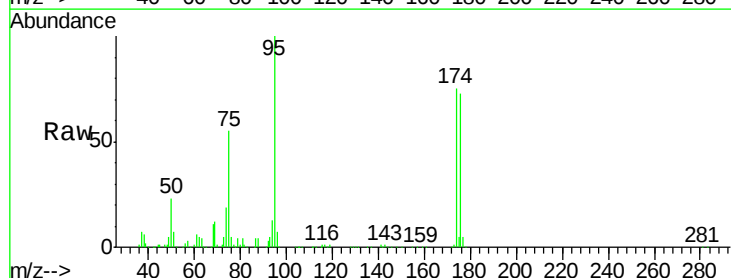
Acq: 23 Sep 2019 18:05

Tgt Ion: 75 Resp: 165028

Ion Ratio Lower Upper

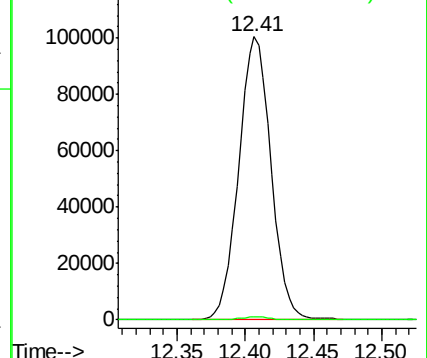
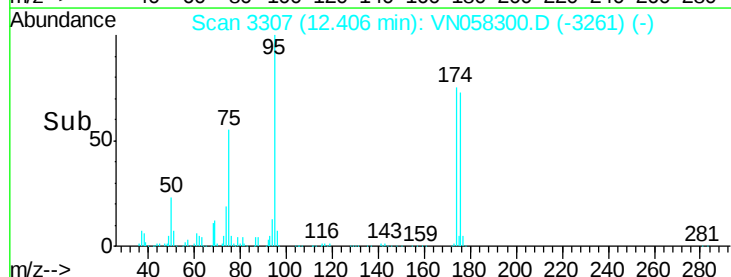
75 100

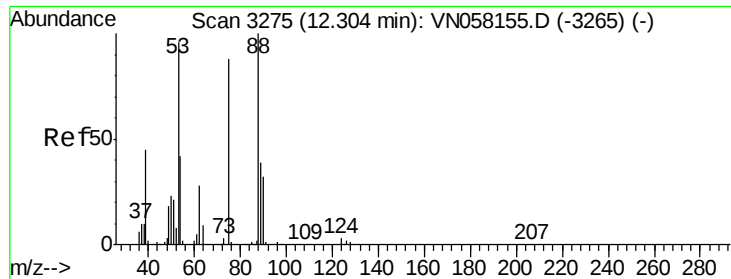
77 1.0 0.0 0.0#



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: 103.985 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058300.D

Acq: 23 Sep 2019 18:05

Instrument :

MSVOA_N

ClientSampleId :

EB02-20190918RE

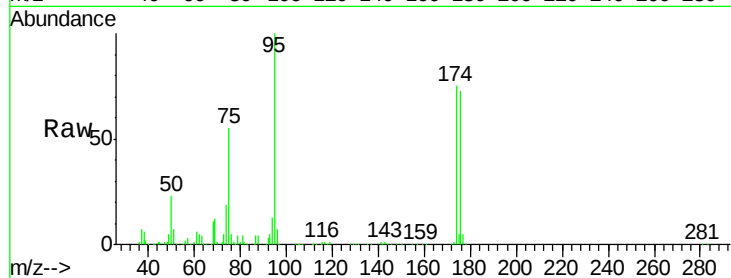
Tot Ion: 75 Resp: 165028

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

