

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092319\
 Data File : VN058279.D
 Acq On : 23 Sep 2019 10:23
 Operator : JC/SP
 Sample : K4975-19
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FB02-20190918

Quant Time: Sep 24 01:29:19 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	483353	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	791786	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	675816	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	266837	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	359416	53.39	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.78%	
35) Dibromofluoromethane	7.57	113	248928	51.72	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.44%	
50) Toluene-d8	10.09	98	989577	52.77	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.54%	
62) 4-Bromofluorobenzene	12.41	95	314149	45.09	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.18%	

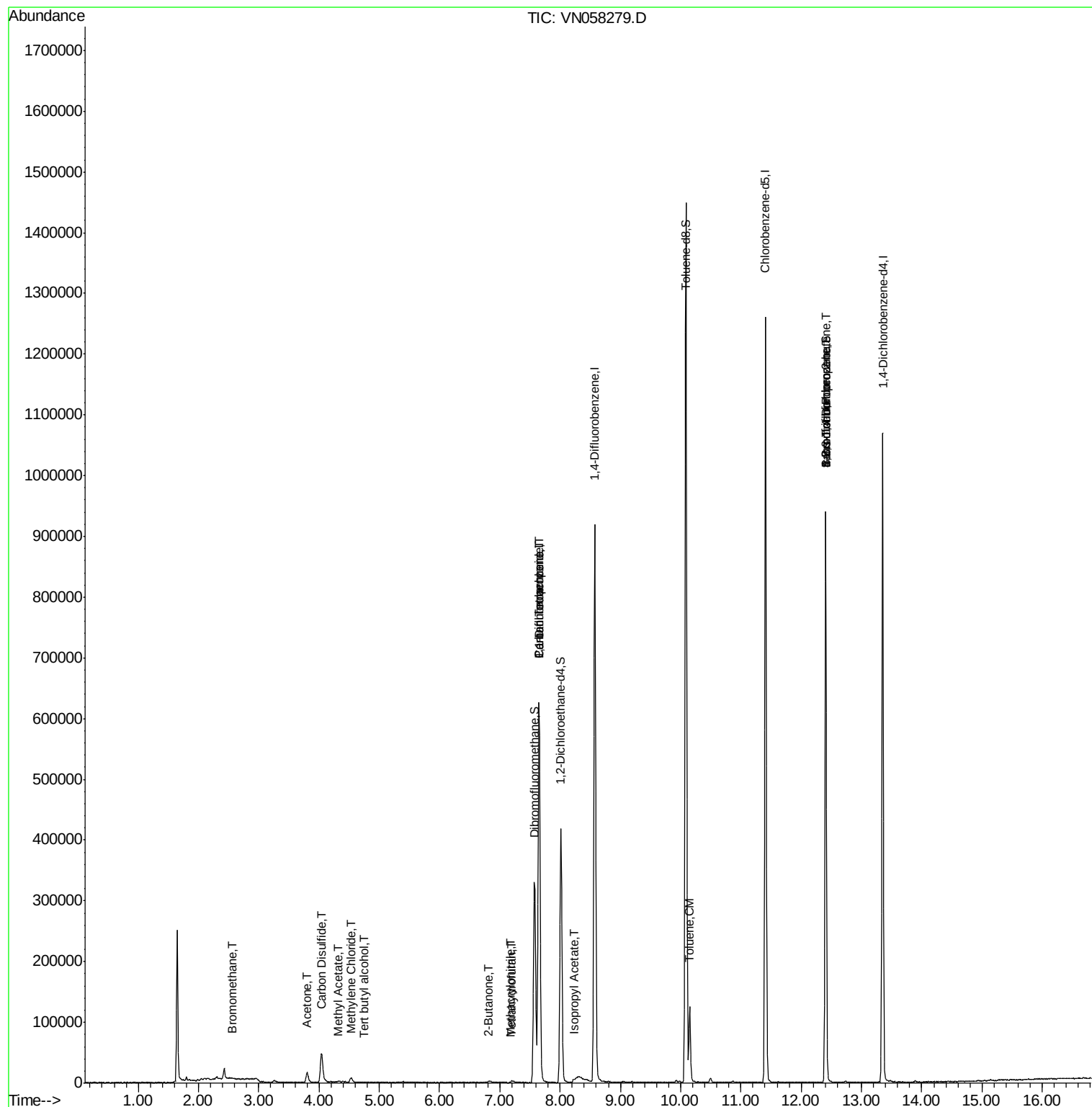
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1536	Below Cal	#	77
4) Vinyl Chloride	2.43	62	65	Below Cal	#	43
5) Bromomethane	2.55	94	128	0.794	ug/l	85
6) Chloroethane	2.69	64	67	Below Cal	#	44
11) Tert butyl alcohol	4.75	59	364	0.455	ug/l #	71
16) Acetone	3.80	43	28131	12.310	ug/l	95
17) Carbon Disulfide	4.04	76	100	0.295	ug/l #	74
18) Methyl Acetate	4.31	43	3636	0.605	ug/l #	74
20) Methylene Chloride	4.54	84	6126	1.315	ug/l #	89
25) 2-Butanone	6.82	43	1430	0.459	ug/l	98
29) Tetrahydrofuran	7.20	42	1309	0.683	ug/l #	72
31) Cyclohexane	7.65	56	12249	Below Cal	#	26
36) 1,1-Dichloropropene	7.65	75	41024	7.185	ug/l #	51
38) Carbon Tetrachloride	7.65	117	49545	8.632	ug/l #	15
41) Methacrylonitrile	7.18	41	273	1.001	ug/l #	100
43) Isopropyl Acetate	8.23	43	3683	0.333	ug/l #	57
52) Toluene	10.15	92	51115	4.677	ug/l	99
71) Bromoform	12.41	173	2575	4.343	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	171458	35.903	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	171458	100.285	ug/l #	5

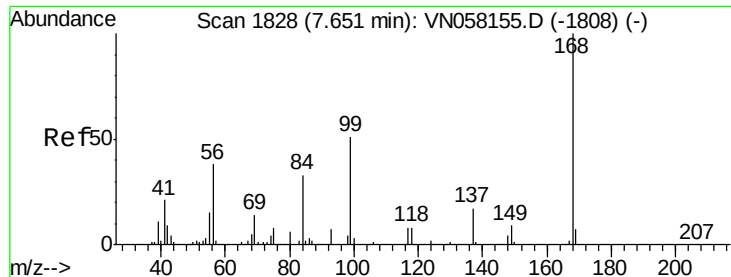
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 2344

Delta R.T. 0.00 min

Lab File: VN058279.D

Acq: 23 Sep 2019 10:23

Instrument :

MSVOA_N

ClientSampleId :

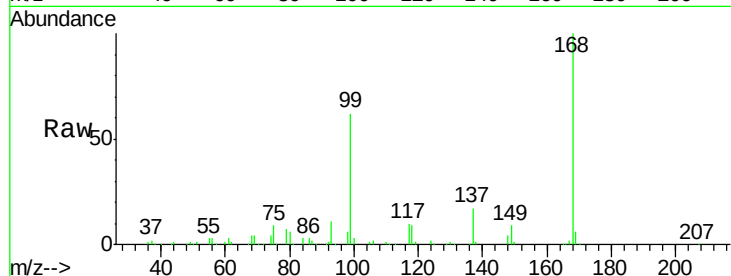
FB02-20190918

Tot Ion:168 Resp: 483353

Ion Ratio Lower Upper

168 100

99 61.7 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

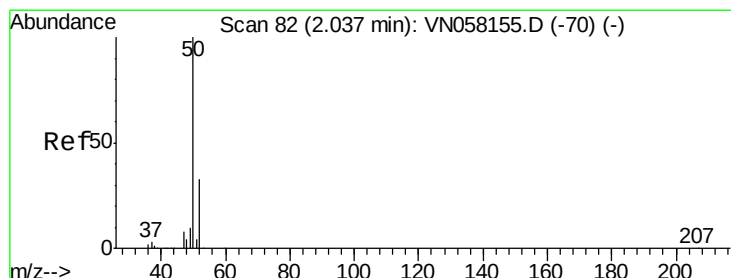
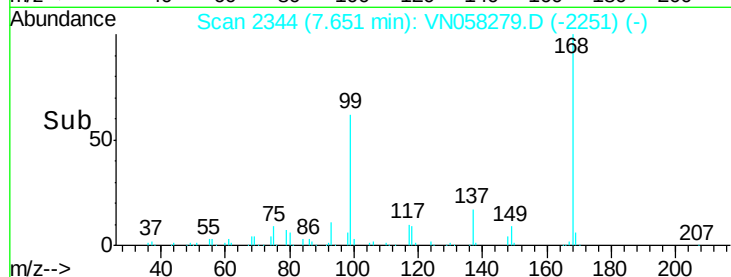
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 598

Delta R.T. 0.00 min

Lab File: VN058279.D

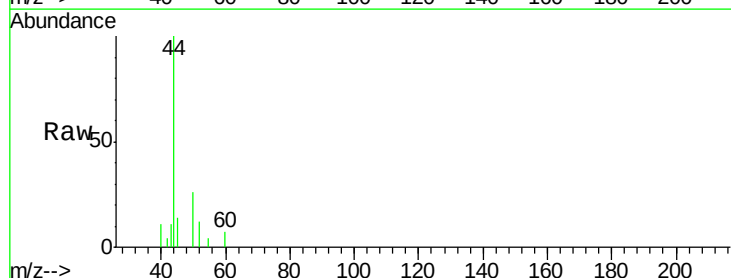
Acq: 23 Sep 2019 10:23

Tgt Ion: 50 Resp: 1536

Ion Ratio Lower Upper

50 100

52 45.9 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

1000

800

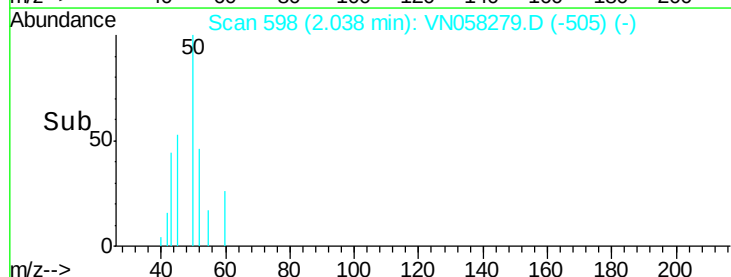
600

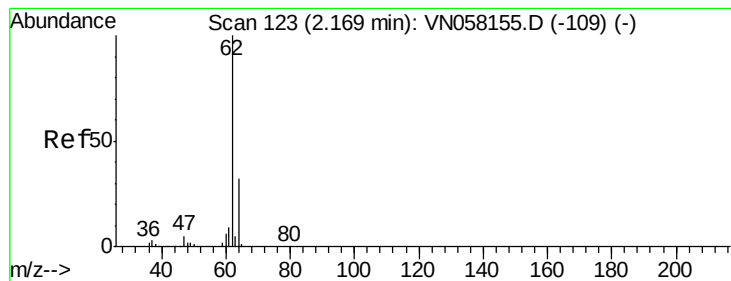
400

200

0

Time--> 2.00 2.05





#4

Vinyl Chloride

Concen: Below Cal

RT: 2.43 min Scan# 720

Delta R.T. 0.26 min

Lab File: VN058279.D

Acq: 23 Sep 2019 10:23

Instrument :

MSVOA_N

ClientSampleId :

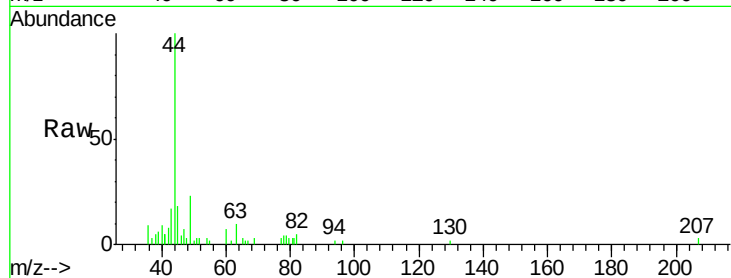
FB02-20190918

Tot Ion: 62 Resp: 65

Ion Ratio Lower Upper

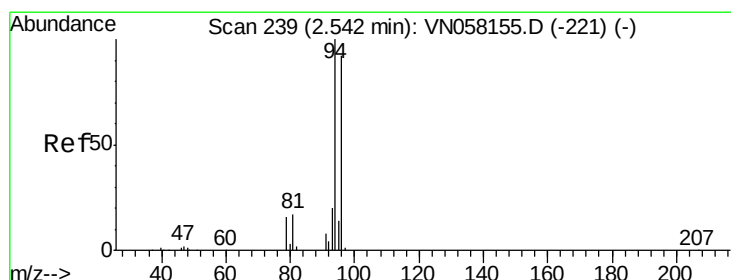
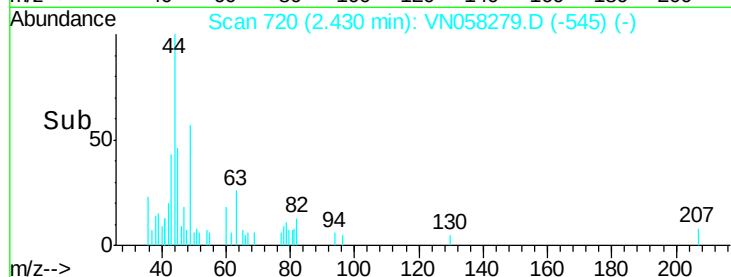
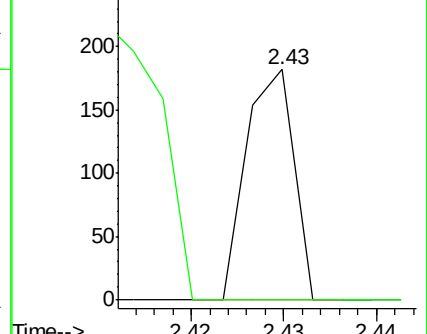
62 100

64 0.0 25.4 38.2#



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO



#5

Bromomethane

Concen: 0.794 ug/l

RT: 2.55 min Scan# 758

Delta R.T. 0.01 min

Lab File: VN058279.D

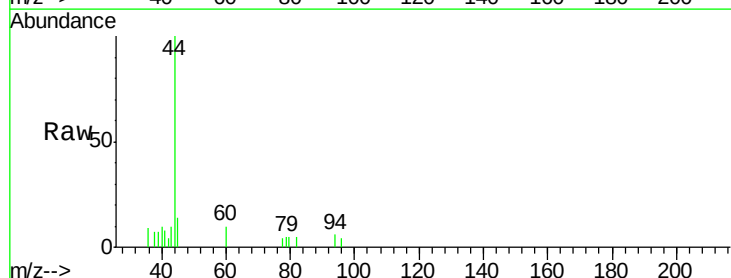
Acq: 23 Sep 2019 10:23

Tgt Ion: 94 Resp: 128

Ion Ratio Lower Upper

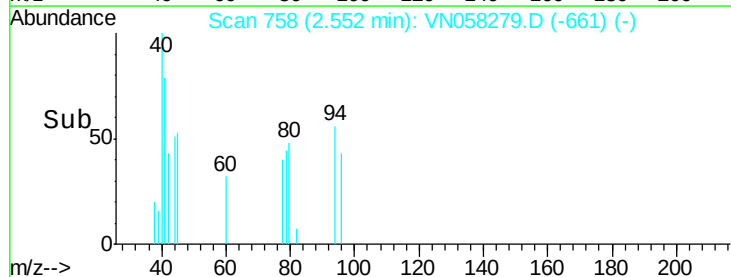
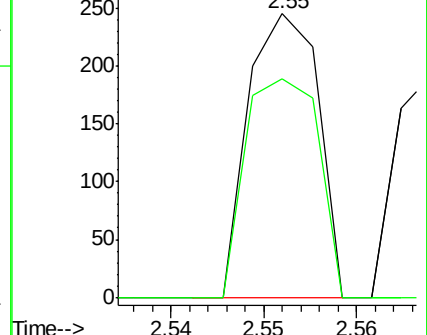
94 100

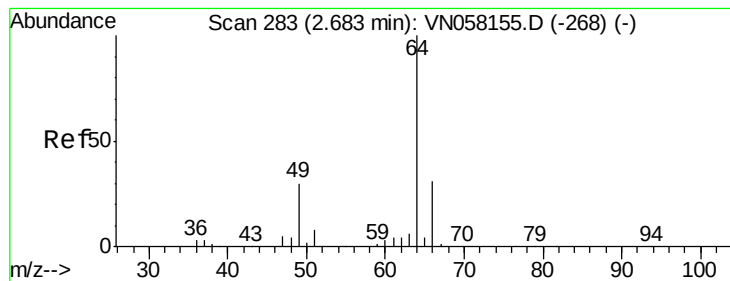
96 77.1 73.3 109.9



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO





#6

Chloroethane

Concen: Below Cal

RT: 2.69 min Scan# 800

Delta R.T. 0.00 min

Lab File: VN058279.D

Acq: 23 Sep 2019 10:23

Instrument :

MSVOA_N

ClientSampleId :

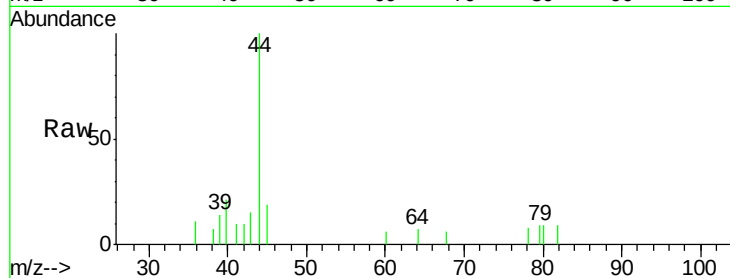
FB02-20190918

Tot Ion: 64 Resp: 67

Ion Ratio Lower Upper

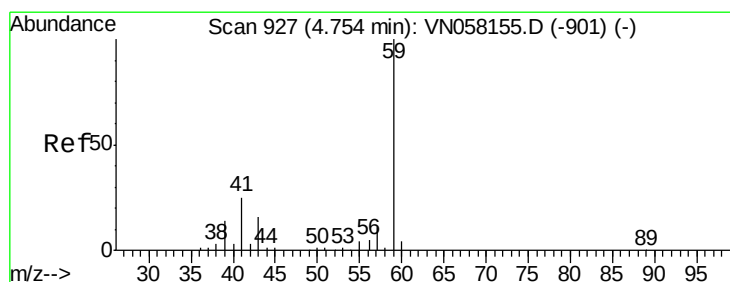
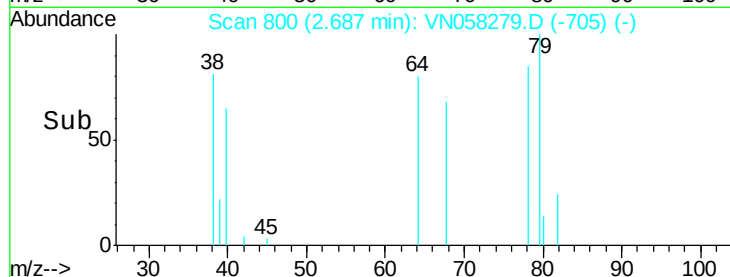
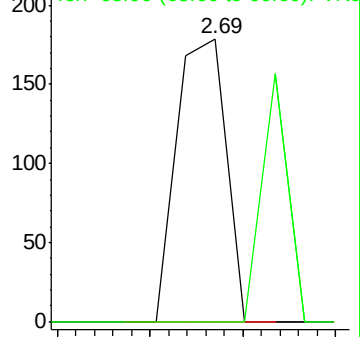
64 100

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: 0.455 ug/l

RT: 4.75 min Scan# 1441

Delta R.T. -0.01 min

Lab File: VN058279.D

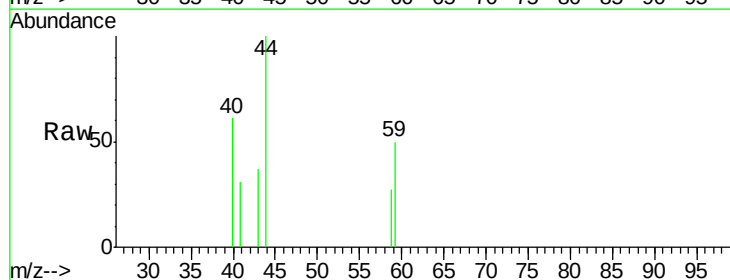
Acq: 23 Sep 2019 10:23

Tgt Ion: 59 Resp: 364

Ion Ratio Lower Upper

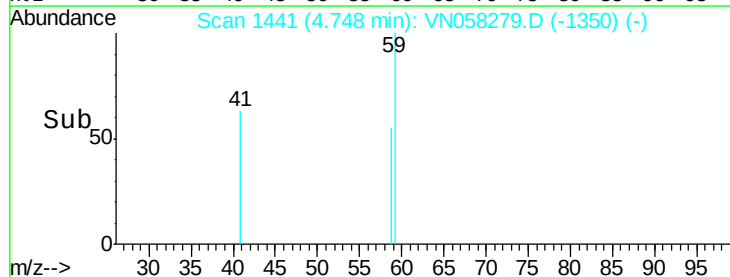
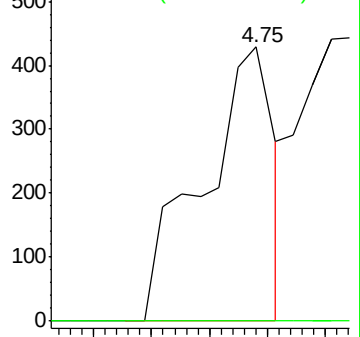
59 100

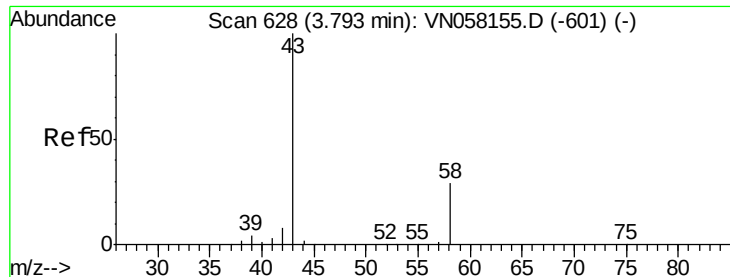
57 0.0 8.6 13.0#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: 12.310 ug/l

RT: 3.80 min Scan# 1146

Delta R.T. 0.01 min

Lab File: VN058279.D

Acq: 23 Sep 2019 10:23

Instrument :

MSVOA_N

ClientSampleId :

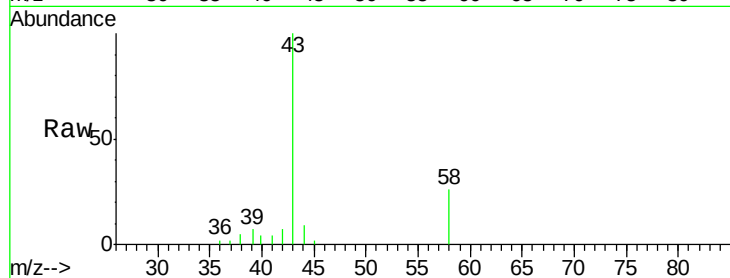
FB02-20190918

Tot Ion: 43 Resp: 28131

Ion Ratio Lower Upper

43 100

58 26.5 23.4 35.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

12000

10000

8000

6000

4000

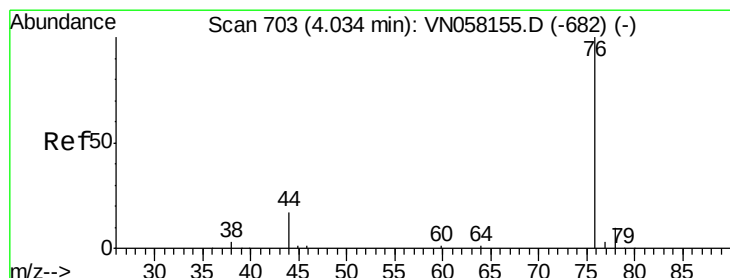
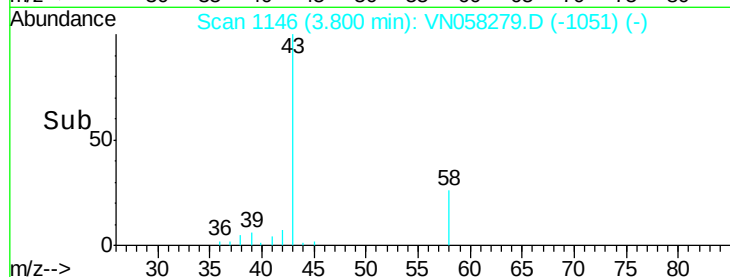
2000

0

Time-->

3.70 3.75 3.80 3.85 3.90

3.80



#17

Carbon Disulfide

Concen: 0.295 ug/l

RT: 4.04 min Scan# 1220

Delta R.T. 0.00 min

Lab File: VN058279.D

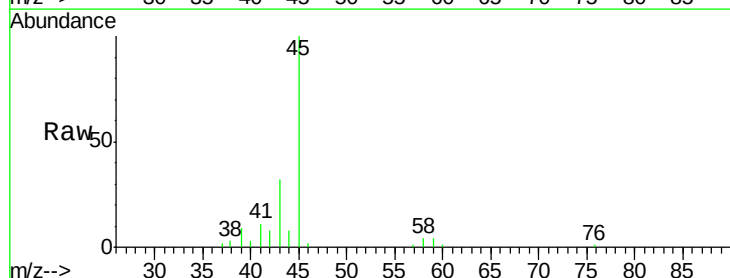
Acq: 23 Sep 2019 10:23

Tgt Ion: 76 Resp: 100

Ion Ratio Lower Upper

76 100

78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

200

150

100

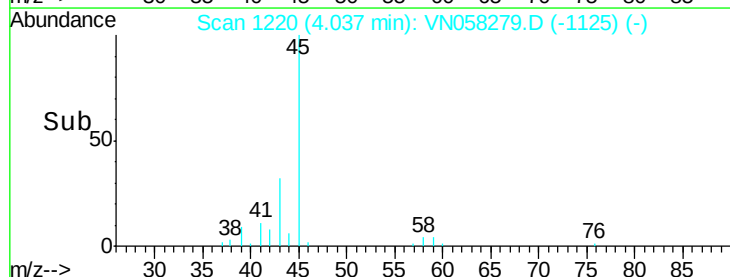
50

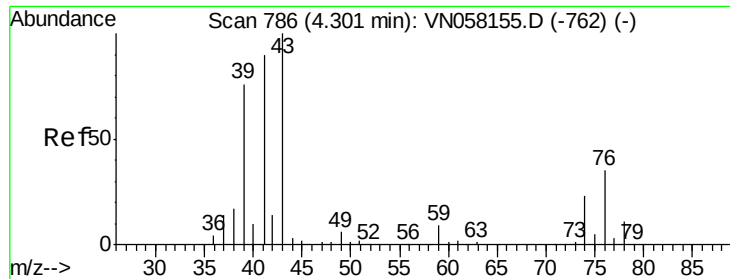
0

Time-->

4.03 4.04 4.05

4.04

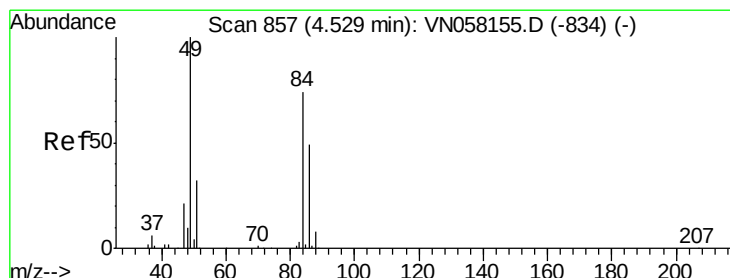
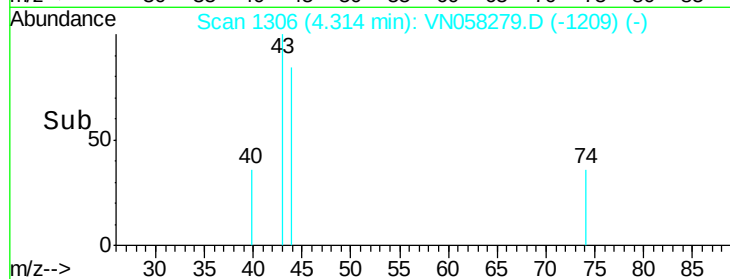
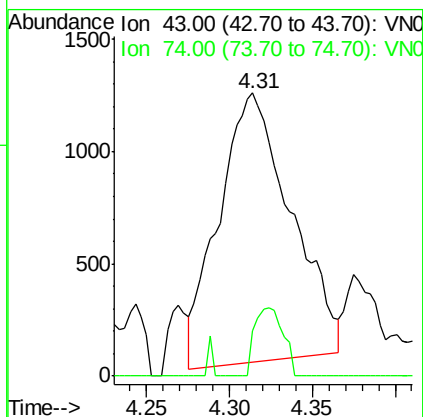
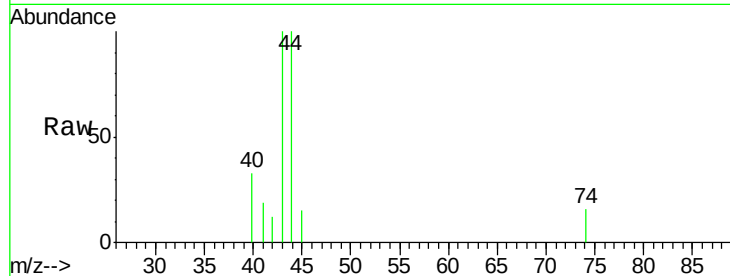




#18
Methvl Acetate
Concen: 0.605 ug/l
RT: 4.31 min Scan# 1306
Delta R.T. 0.01 min
Lab File: VN058279.D
Acq: 23 Sep 2019 10:23

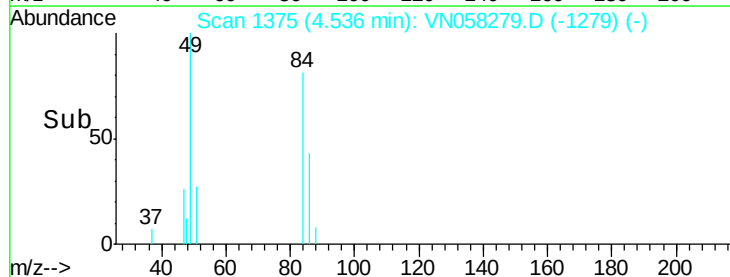
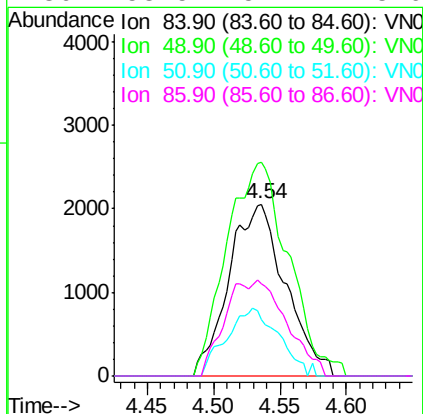
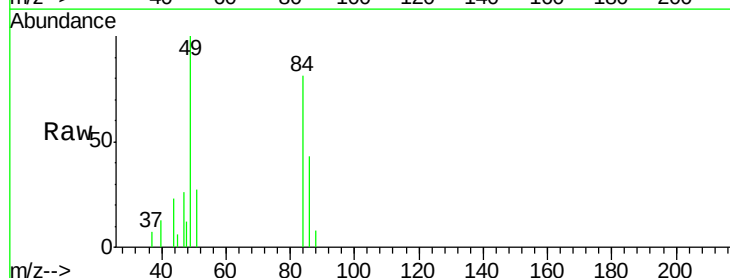
Instrument :
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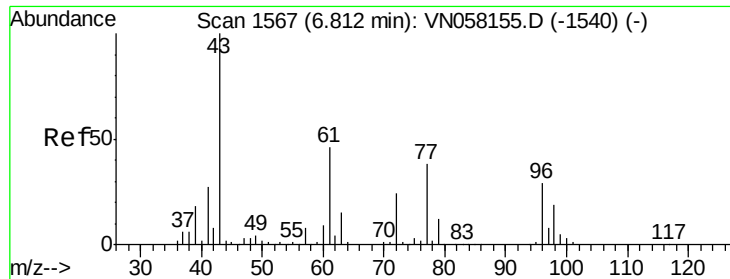
Tot Ion: 43 Resp: 3636
Ion Ratio Lower Upper
43 100
74 10.1 18.0 27.0#



#20
Methylene Chloride
Concen: 1.315 ug/l
RT: 4.54 min Scan# 1375
Delta R.T. 0.01 min
Lab File: VN058279.D
Acq: 23 Sep 2019 10:23

Tgt Ion: 84 Resp: 6126
Ion Ratio Lower Upper
84 100
49 124.1 107.5 161.3
51 33.0 33.9 50.9#
86 53.5 52.4 78.6





#25

2-Butanone

Concen: 0.459 ug/l

RT: 6.82 min Scan# 2086

Delta R.T. 0.01 min

Lab File: VN058279.D

Acq: 23 Sep 2019 10:23

Instrument :

MSVOA_N

ClientSampleId :

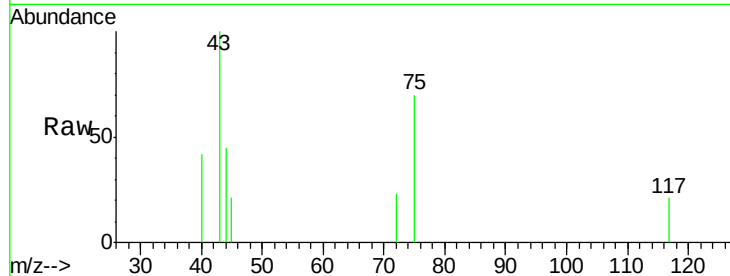
FB02-20190918

Tot Ion: 43 Resp: 1430

Ion Ratio Lower Upper

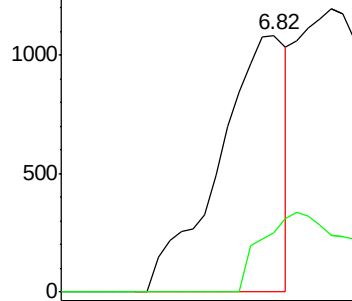
43 100

72 23.3 19.5 29.3

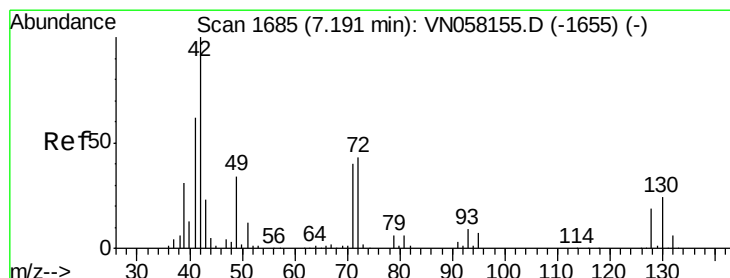
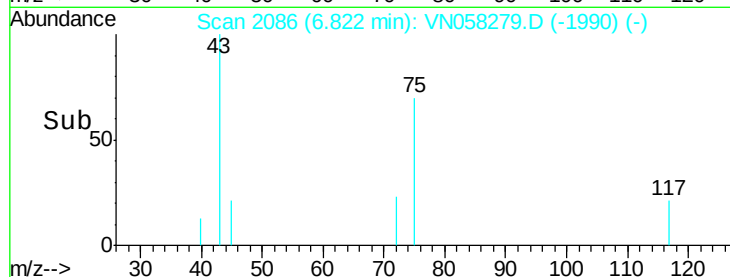


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



Time-->



#29

Tetrahydrofuran

Concen: 0.683 ug/l

RT: 7.20 min Scan# 2203

Delta R.T. 0.01 min

Lab File: VN058279.D

Acq: 23 Sep 2019 10:23

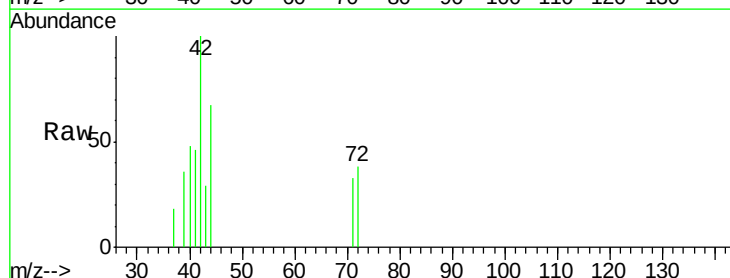
Tgt Ion: 42 Resp: 1309

Ion Ratio Lower Upper

42 100

72 18.9 33.8 50.6#

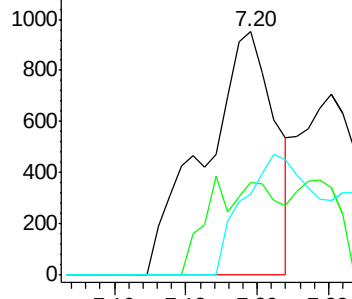
71 51.0 31.4 47.0#



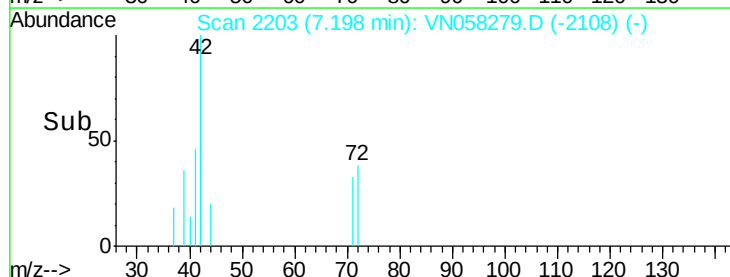
Abundance Ion 42.00 (41.70 to 42.70): VN0

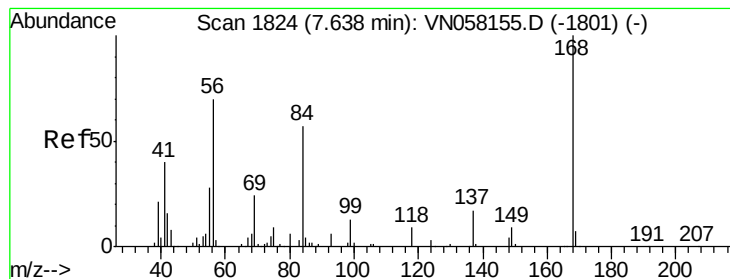
Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



Time-->





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 2343

Delta R.T. 0.01 min

Lab File: VN058279.D

Acq: 23 Sep 2019 10:23

Instrument :

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ClientSampleId :

FB02-20190918

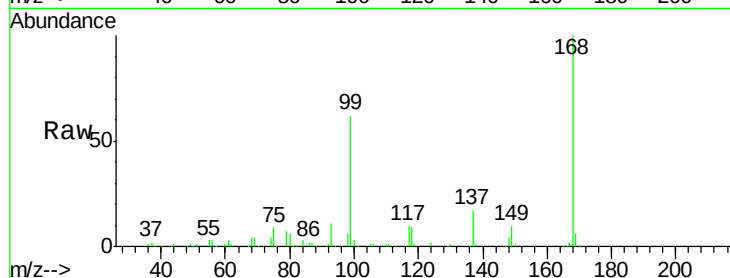
Tot Ion: 56 Resp: 12249

Ion Ratio Lower Upper

56 100

69 136.7 27.3 40.9#

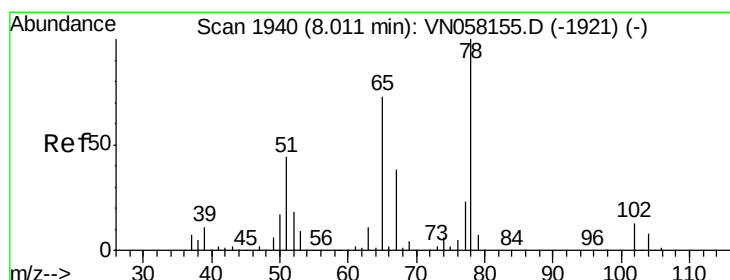
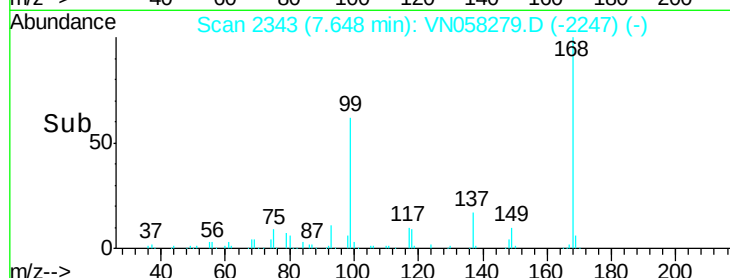
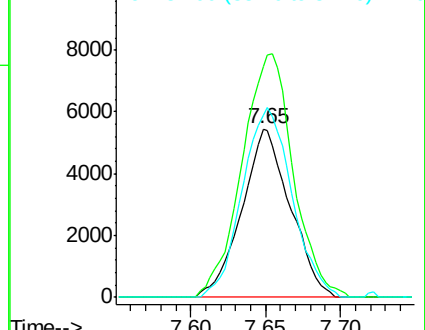
84 108.2 65.0 97.4#



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: 53.388 ug/l

RT: 8.01 min Scan# 2456

Delta R.T. 0.00 min

Lab File: VN058279.D

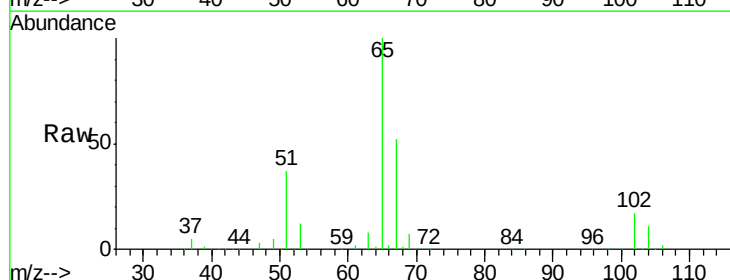
Acq: 23 Sep 2019 10:23

Tgt Ion: 65 Resp: 359416

Ion Ratio Lower Upper

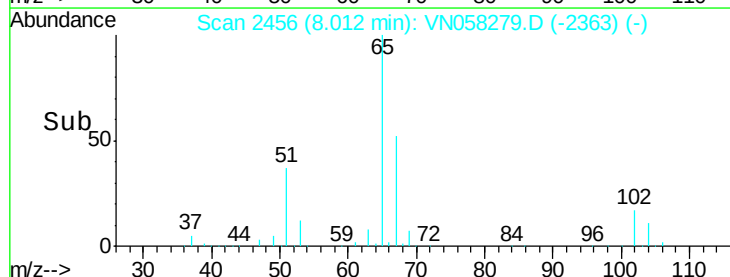
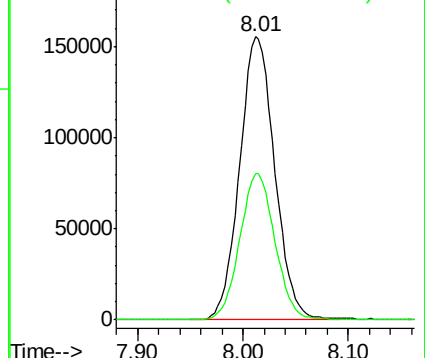
65 100

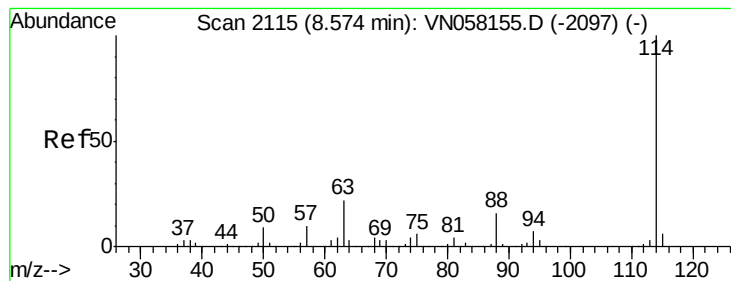
67 51.9 0.0 103.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2631

Delta R.T. 0.00 min

Lab File: VN058279.D

Acq: 23 Sep 2019 10:23

Instrument :

MSVOA_N

ClientSampleId :

FB02-20190918

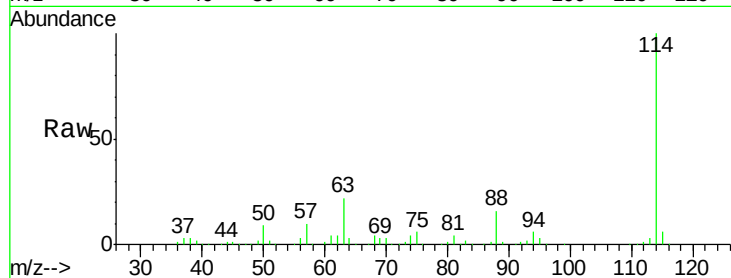
Tot Ion:114 Resp: 791786

Ion Ratio Lower Upper

114 100

63 22.3 0.0 44.2

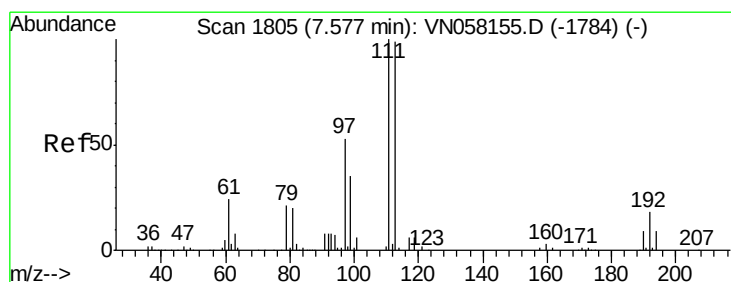
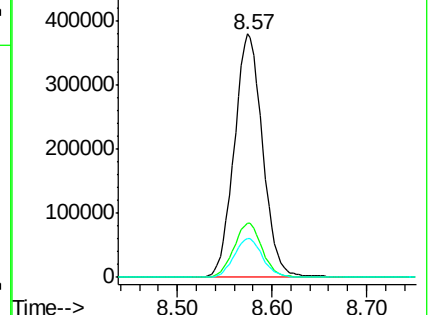
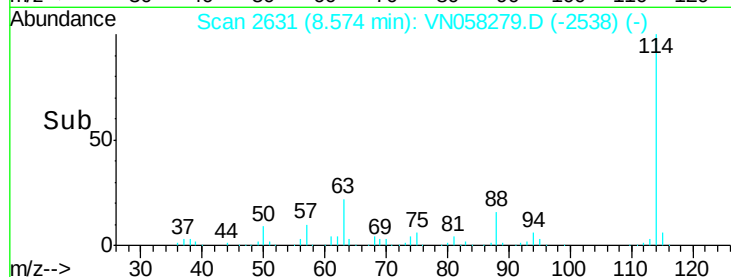
88 16.2 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 51.716 ug/l

RT: 7.57 min Scan# 2320

Delta R.T. -0.00 min

Lab File: VN058279.D

Acq: 23 Sep 2019 10:23

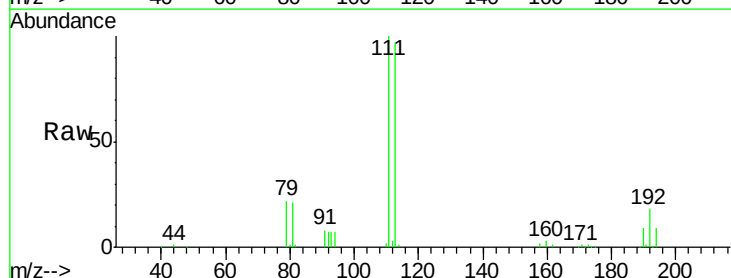
Tgt Ion:113 Resp: 248928

Ion Ratio Lower Upper

113 100

111 102.1 81.8 122.6

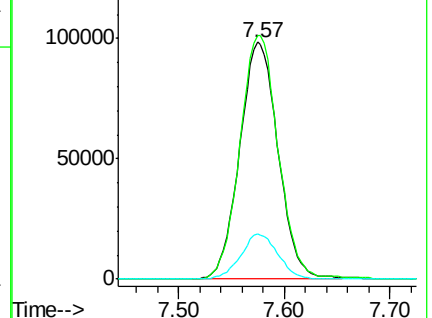
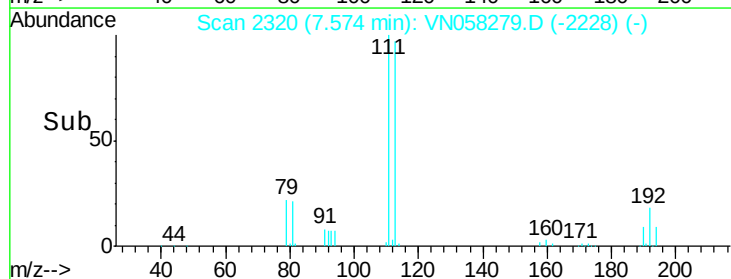
192 18.4 14.5 21.7

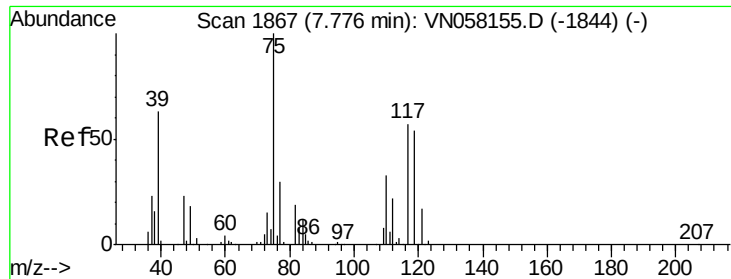


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

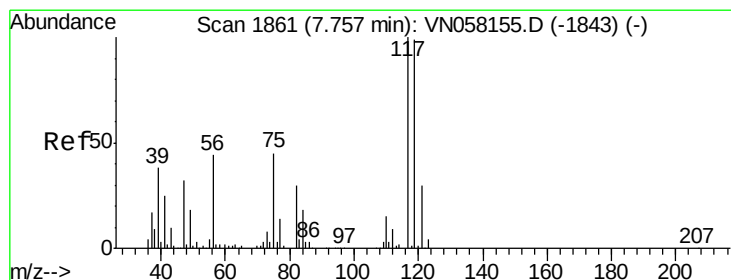
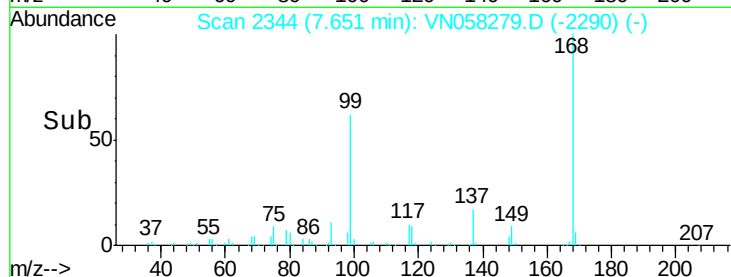
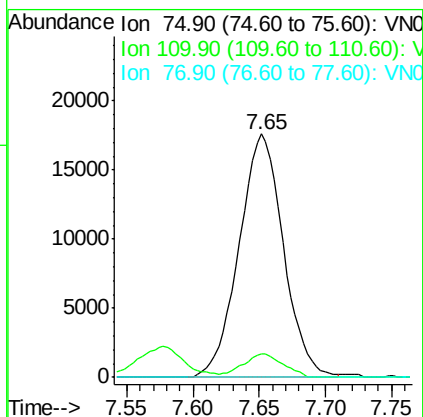
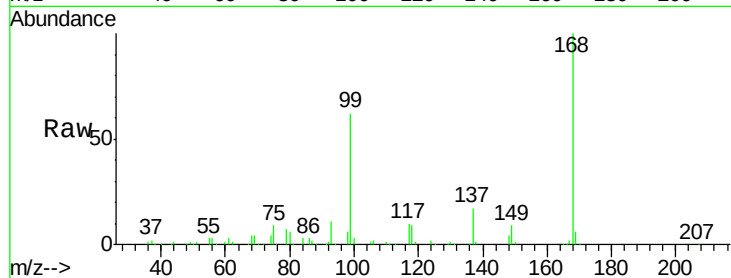




#36
 1,1-Dichloropropene
 Concen: 7.185 ug/l
 RT: 7.65 min Scan# 2344
 Delta R.T. -0.12 min
 Lab File: VN058279.D
 Acq: 23 Sep 2019 10:23

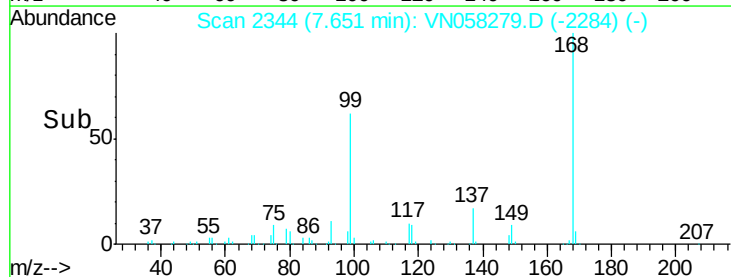
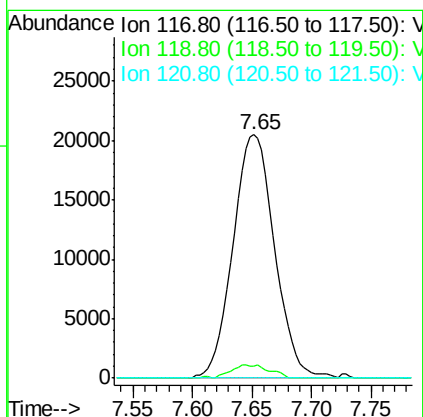
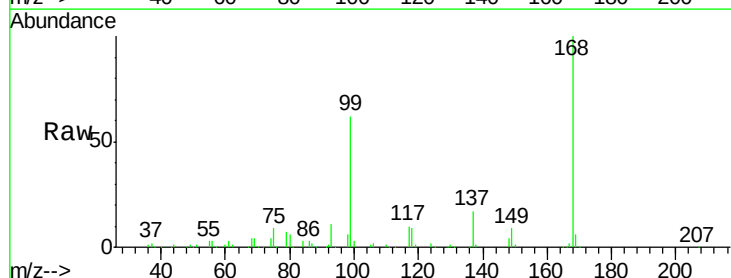
Instrument :
 MSVOA_N
 ClientSampleId :
 FB02-20190918

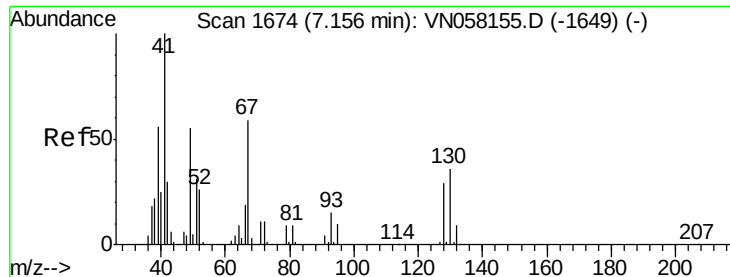
Tot Ion	75	Resp	41024
Ion Ratio	Lower	Upper	
75	100		
110	8.8	16.6	49.7#
77	0.0	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 8.632 ug/l
 RT: 7.65 min Scan# 2344
 Delta R.T. -0.11 min
 Lab File: VN058279.D
 Acq: 23 Sep 2019 10:23

Tgt Ion	117	Resp	49545
Ion Ratio	Lower	Upper	
117	100		
119	5.1	78.6	117.8#
121	0.0	24.1	36.1#

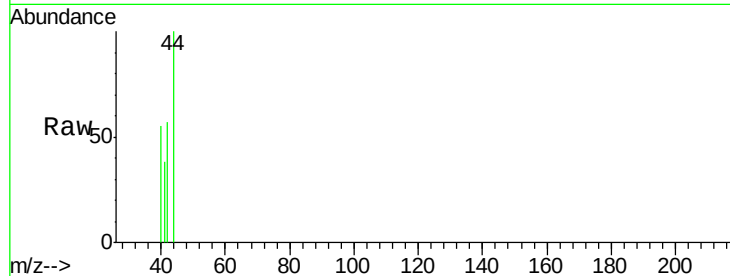




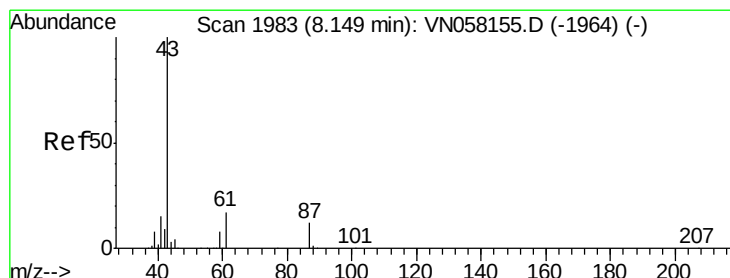
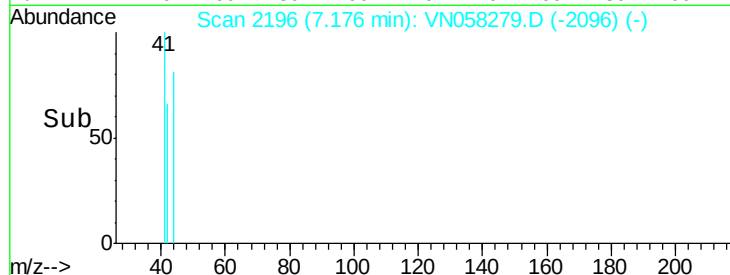
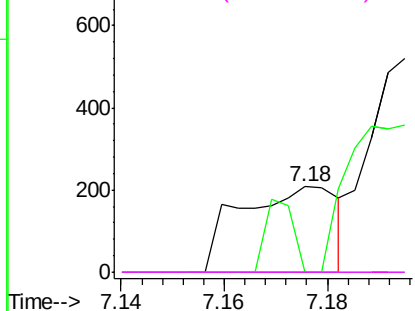
#41
Methacrylonitrile
Concen: 1.001 ug/l
RT: 7.18 min Scan# 2196
Delta R.T. 0.02 min
Lab File: VN058279.D
Acq: 23 Sep 2019 10:23

Instrument :
MSVOA_N
ClientSampleId :
FB02-20190918

Tot Ion:	41	Resp:	273
Ion	Ratio	Lower	Upper
41	100		
39	24.2	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0

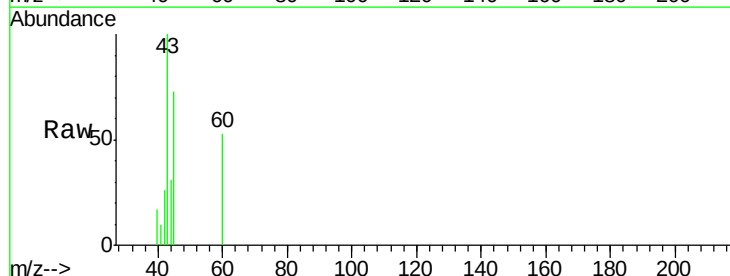


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 39.00 (38.70 to 39.70): VNC
Ion 67.00 (66.70 to 67.70): VNC
Ion 52.00 (51.70 to 52.70): VNC

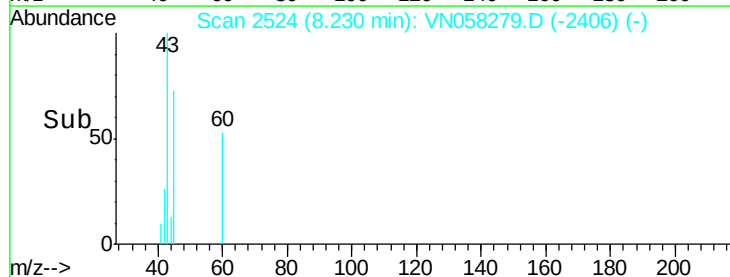
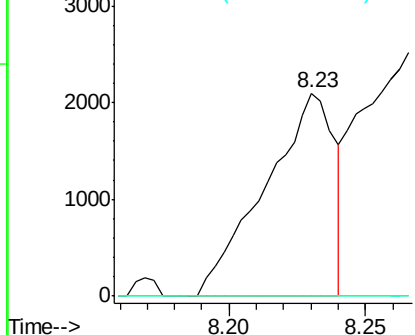


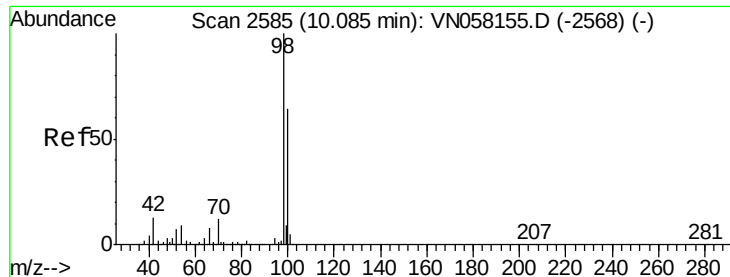
#43
Isopropyl Acetate
Concen: 0.333 ug/l
RT: 8.23 min Scan# 2524
Delta R.T. 0.08 min
Lab File: VN058279.D
Acq: 23 Sep 2019 10:23

Tgt Ion:	43	Resp:	3683
Ion	Ratio	Lower	Upper
43	100		
61	0.0	19.7	29.5#
87	0.0	9.4	14.2#



Abundance Ion 43.00 (42.70 to 43.70): VNC
Ion 61.00 (60.70 to 61.70): VNC
Ion 87.00 (86.70 to 87.70): VNC





#50

Toluene-d8

Concen: 52.766 ug/l

RT: 10.09 min Scan# 3101

Delta R.T. 0.00 min

Lab File: VN058279.D

Acq: 23 Sep 2019 10:23

Instrument :

MSVOA_N

ClientSampleId :

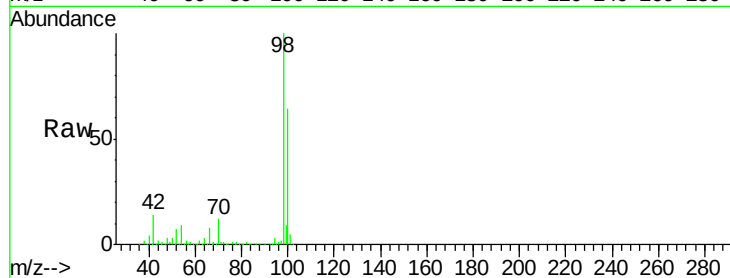
FB02-20190918

Tot Ion: 98 Resp: 989577

Ion Ratio Lower Upper

98 100

100 64.0 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

600000

500000

400000

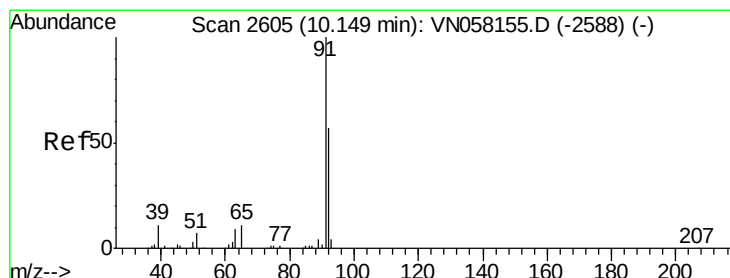
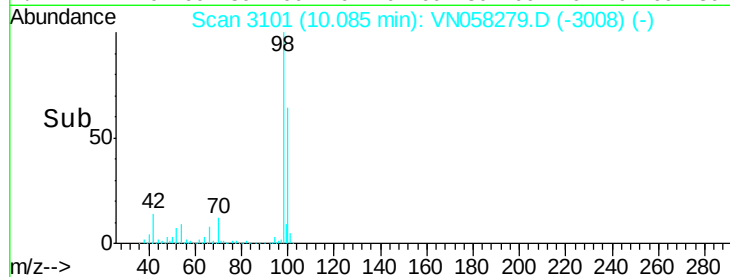
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 4.677 ug/l

RT: 10.15 min Scan# 3121

Delta R.T. 0.00 min

Lab File: VN058279.D

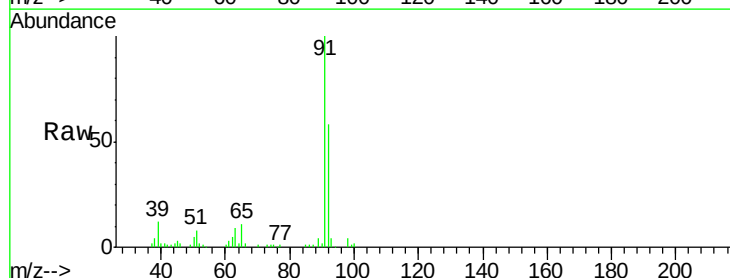
Acq: 23 Sep 2019 10:23

Tgt Ion: 92 Resp: 51115

Ion Ratio Lower Upper

92 100

91 176.2 140.2 210.2



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

50000

40000

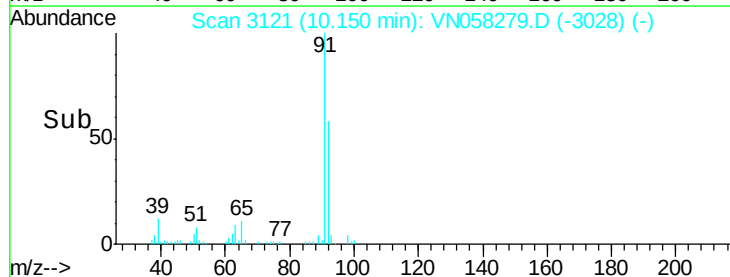
30000

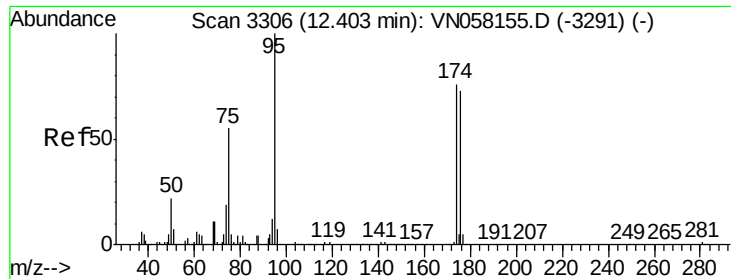
20000

10000

0

Time-->





#62

4-Bromofluorobenzene

Concen: 45.095 ug/l

RT: 12.41 min Scan# 3823

Delta R.T. 0.00 min

Lab File: VN058279.D

Acq: 23 Sep 2019 10:23

Instrument :

MSVOA_N

ClientSampleId :

FB02-20190918

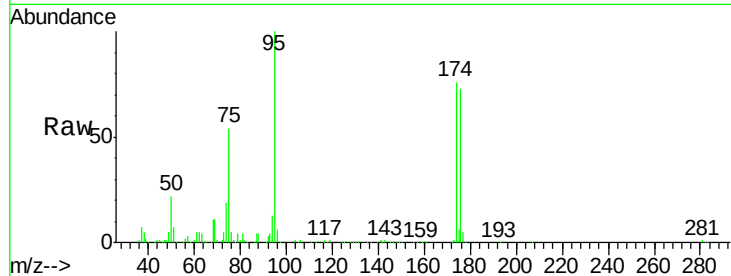
Tot Ion: 95 Resp: 314149

Ion Ratio Lower Upper

95 100

174 75.3 0.0 152.2

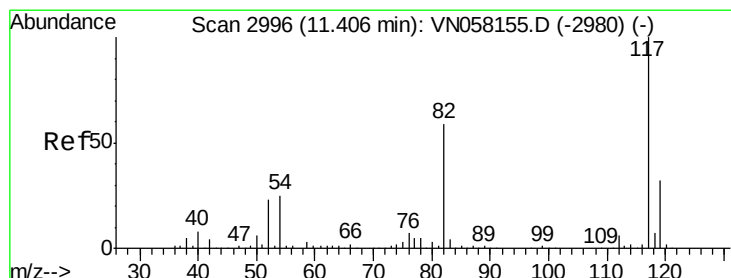
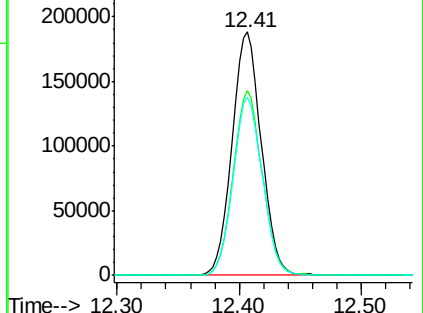
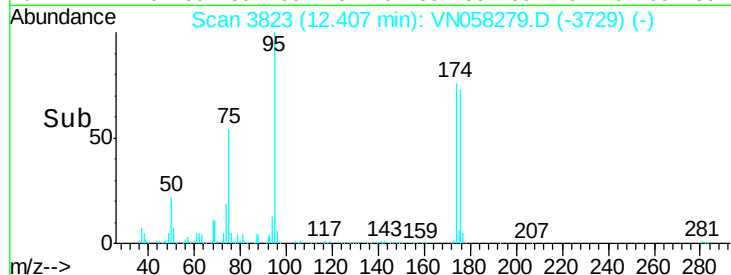
176 73.1 0.0 148.0



Abundance Ion 94.90 (94.60 to 95.60): VN058279.D (-3729) (-)

Ion 173.80 (173.50 to 174.50): VN058279.D (-3729) (-)

Ion 175.80 (175.50 to 176.50): VN058279.D (-3729) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 3512

Delta R.T. 0.00 min

Lab File: VN058279.D

Acq: 23 Sep 2019 10:23

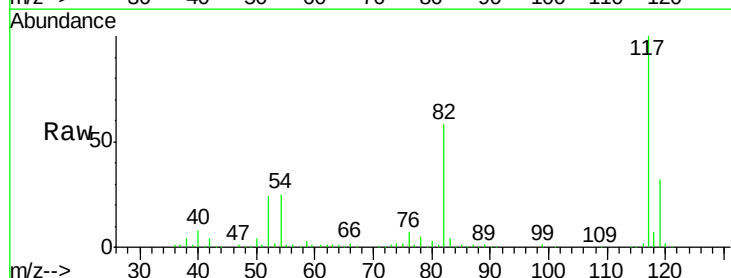
Tgt Ion: 117 Resp: 675816

Ion Ratio Lower Upper

117 100

82 58.2 46.9 70.3

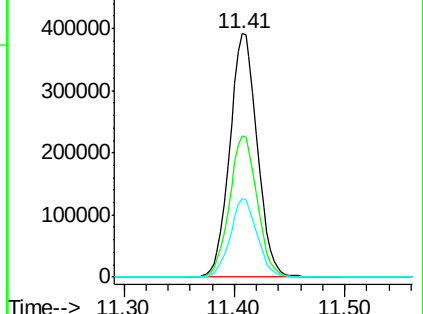
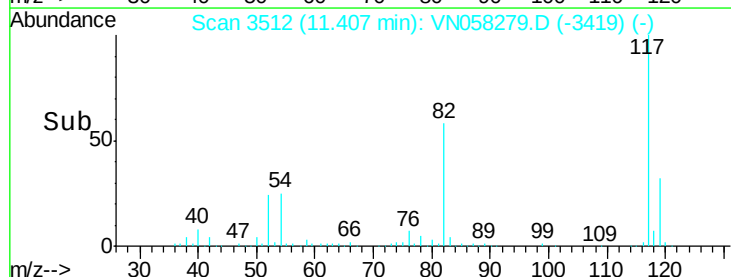
119 32.3 25.3 37.9

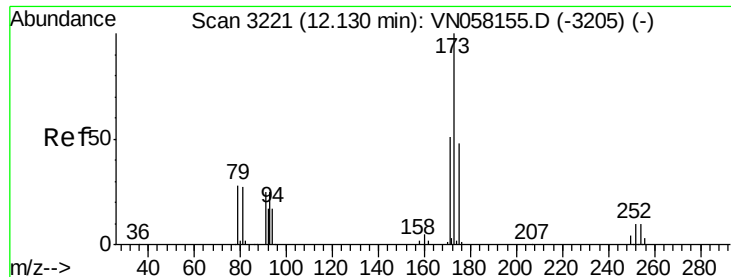


Abundance Ion 116.90 (116.60 to 117.60): VN058279.D (-3419) (-)

Ion 82.00 (81.70 to 82.70): VN058279.D (-3419) (-)

Ion 118.90 (118.60 to 119.60): VN058279.D (-3419) (-)





#71

Bromoform

Concen: 4.343 ug/l

RT: 12.41 min Scan# 3824

Delta R.T. 0.28 min

Lab File: VN058279.D

Acq: 23 Sep 2019 10:23

Instrument :

MSVOA_N

ClientSampled :

FB02-20190918

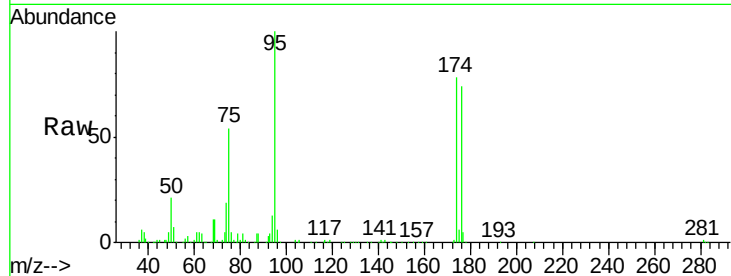
Tot Ion:173 Resp: 2575

Ion Ratio Lower Upper

173 100

175 581.3 24.2 72.6#

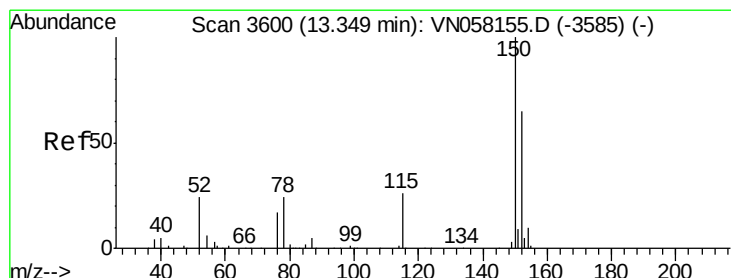
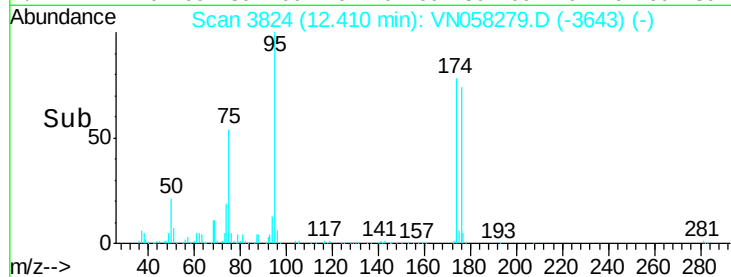
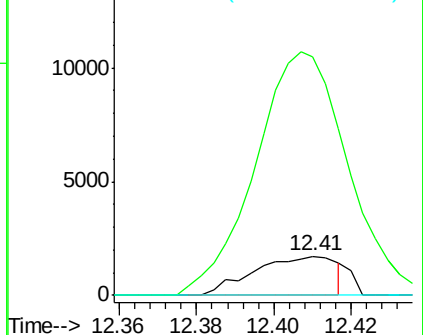
254 0.0 0.1 0.1#



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# 4117

Delta R.T. 0.00 min

Lab File: VN058279.D

Acq: 23 Sep 2019 10:23

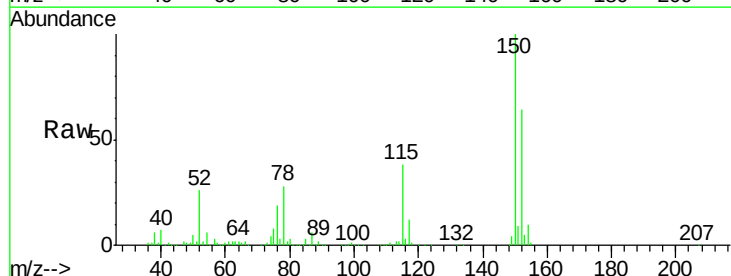
Tgt Ion:152 Resp: 266837

Ion Ratio Lower Upper

152 100

115 60.1 30.1 90.3

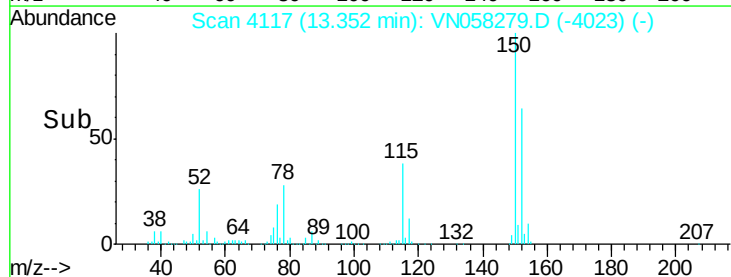
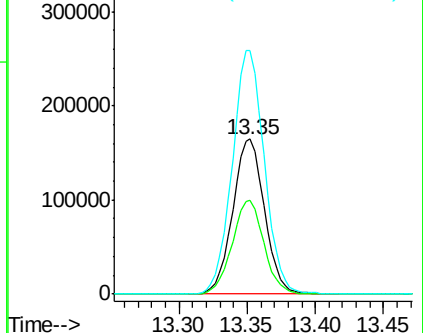
150 158.5 0.0 346.4

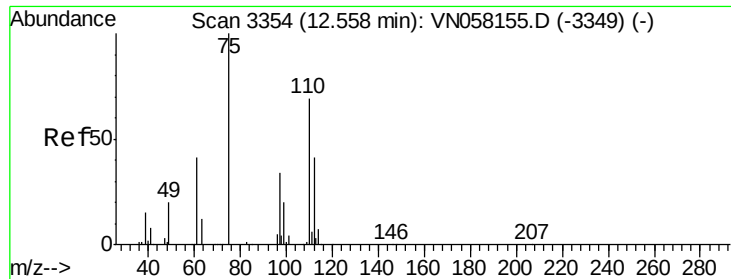


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

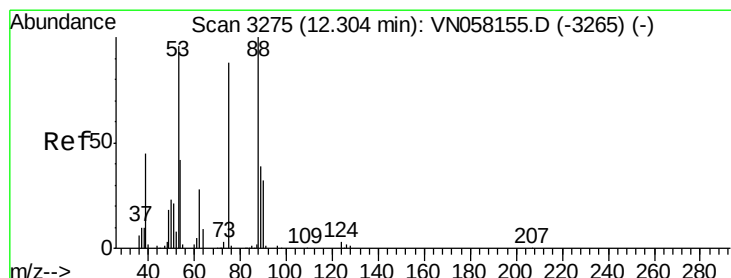
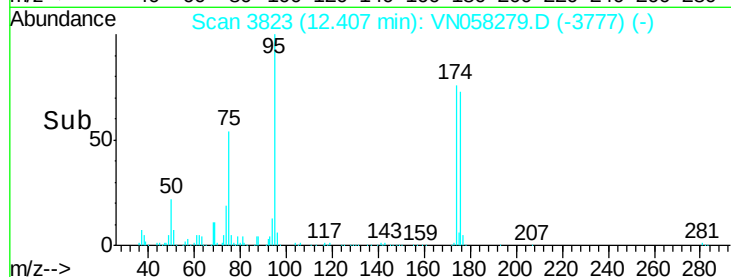
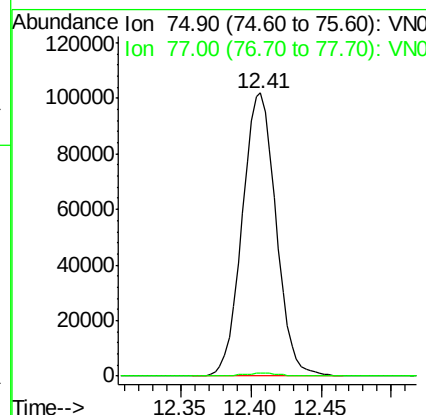
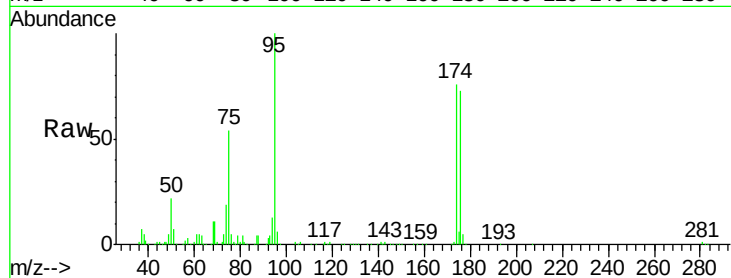




#76
 1,2,3-Trichloropropane
 Concen: 35.903 ug/l
 RT: 12.41 min Scan# 3823
 Delta R.T. -0.15 min
 Lab File: VN058279.D
 Acq: 23 Sep 2019 10:23

Instrument :
 MSVOA_N
 ClientSampled :
 FB02-20190918

Tot Ion: 75 Resp: 171458
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 100.285 ug/l
 RT: 12.41 min Scan# 3823
 Delta R.T. 0.10 min
 Lab File: VN058279.D
 Acq: 23 Sep 2019 10:23

Tgt Ion: 75 Resp: 171458
 Ion Ratio Lower Upper
 75 100
 53 0.0 90.1 135.1#
 89 0.0 36.2 54.2#

