

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092319\
 Data File : VN058299.D
 Acq On : 23 Sep 2019 17:43
 Operator : JC/SP
 Sample : K4975-19
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FB02-20190918RE

Quant Time: Sep 24 01:34:59 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	471612	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	776839	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	658423	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	258319	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	350581	53.37	ug/l	0.00
Spiked Amount			Recovery	=	106.74%	
35) Dibromofluoromethane	7.58	113	239815	50.78	ug/l	0.00
Spiked Amount			Recovery	=	101.56%	
50) Toluene-d8	10.09	98	975619	53.02	ug/l	0.00
Spiked Amount			Recovery	=	106.04%	
62) 4-Bromofluorobenzene	12.41	95	301992	44.18	ug/l	0.00
Spiked Amount			Recovery	=	88.36%	

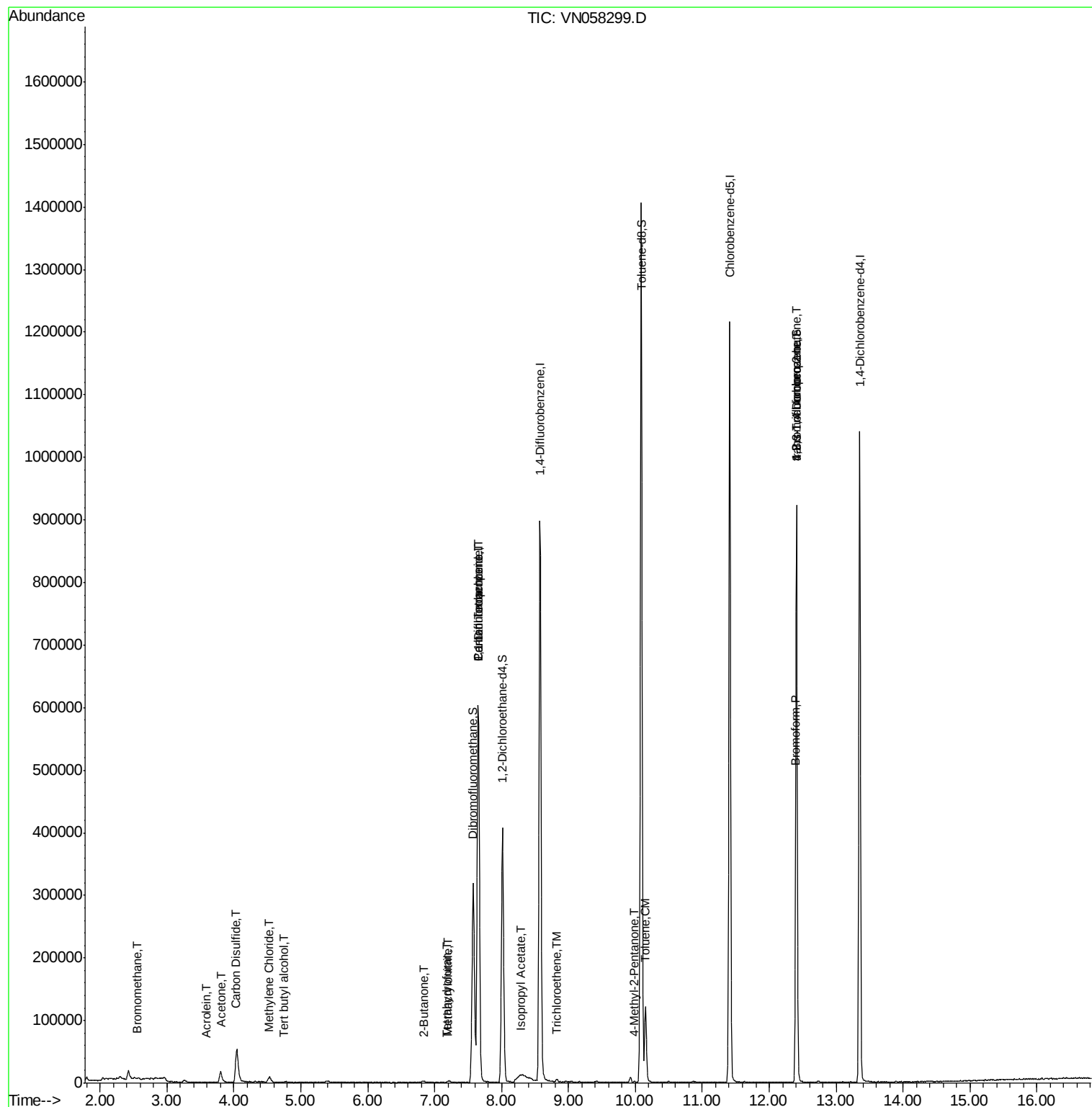
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1291	Below Cal		89
4) Vinyl Chloride	2.34	62	30	Below Cal	#	43
5) Bromomethane	2.55	94	309	0.899	ug/l #	4
6) Chloroethane	2.79	64	30	Below Cal	#	44
11) Tert butyl alcohol	4.75	59	464	0.594	ug/l #	71
13) Acrolein	3.60	56	30	0.259	ug/l #	15
16) Acetone	3.81	43	29376	13.175	ug/l	96
17) Carbon Disulfide	4.02	76	478	0.388	ug/l #	74
20) Methylene Chloride	4.53	84	6217	1.377	ug/l	94
25) 2-Butanone	6.83	43	3517	1.158	ug/l	95
29) Tetrahydrofuran	7.18	42	425	0.227	ug/l #	1
31) Cyclohexane	7.64	56	12555	Below Cal	#	18
36) 1,1-Dichloropropene	7.65	75	41802	7.462	ug/l #	50
38) Carbon Tetrachloride	7.65	117	48120	8.545	ug/l #	14
41) Methacrylonitrile	7.19	41	1001	1.246	ug/l #	100
43) Isopropyl Acetate	8.28	43	17237	1.588	ug/l #	57
44) Trichloroethene	8.83	130	1741	0.416	ug/l	96
51) 4-Methyl-2-Pentanone	9.98	43	1421	0.246	ug/l #	37
52) Toluene	10.15	92	50246	4.686	ug/l	98
71) Bromoform	12.38	173	44	3.608	ug/l #	29
76) 1,2,3-Trichloropropane	12.41	75	169477	36.659	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	169477	102.273	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# 1828

Delta R.T. 0.00 min

Lab File: VN058299.D

Acq: 23 Sep 2019 17:43

Instrument :

MSVOA_N

ClientSampleId :

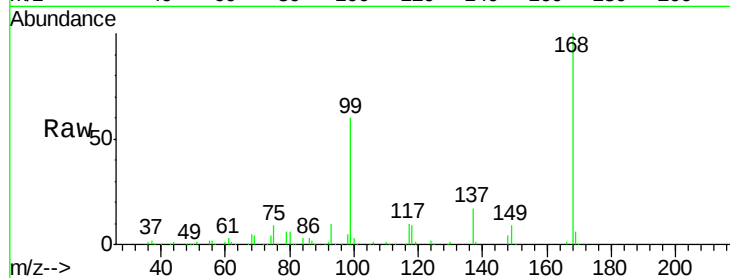
FB02-20190918RE

Tot Ion:168 Resp: 471612

Ion Ratio Lower Upper

168 100

99 59.7 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

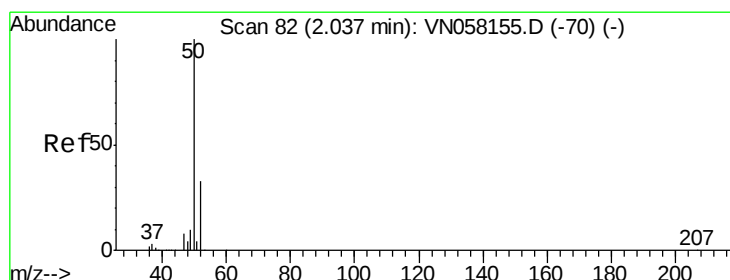
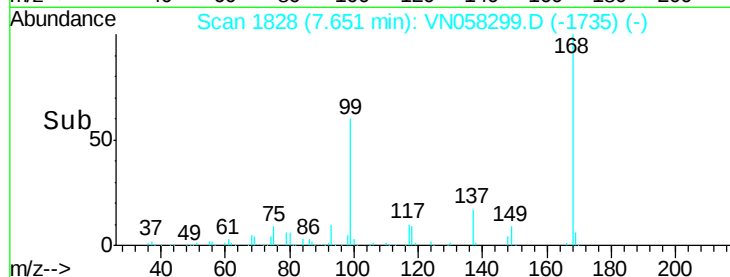
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN058299.D

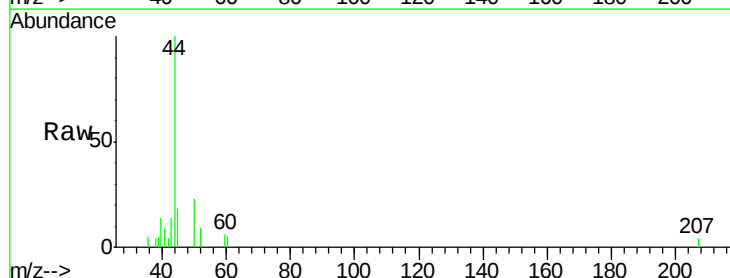
Acq: 23 Sep 2019 17:43

Tgt Ion: 50 Resp: 1291

Ion Ratio Lower Upper

50 100

52 39.1 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

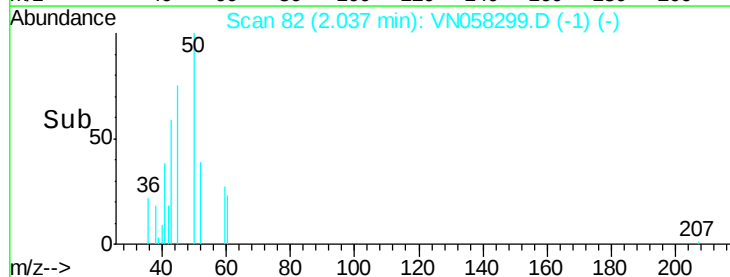
600

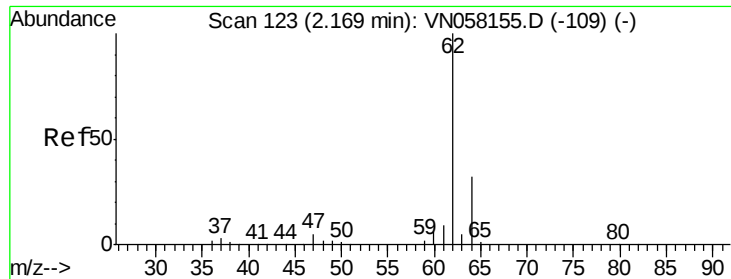
400

200

0

Time-->





#4

Vinyl Chloride

Concen: Below Cal

RT: 2.34 min Scan# 177

Delta R.T. 0.17 min

Lab File: VN058299.D

Acq: 23 Sep 2019 17:43

Instrument :

MSVOA_N

ClientSampleId :

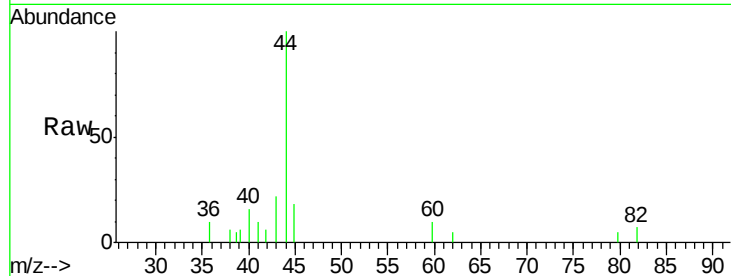
FB02-20190918RE

Tot Ion: 62 Resp: 30

Ion Ratio Lower Upper

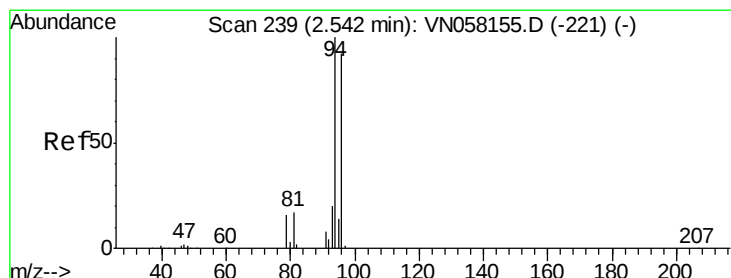
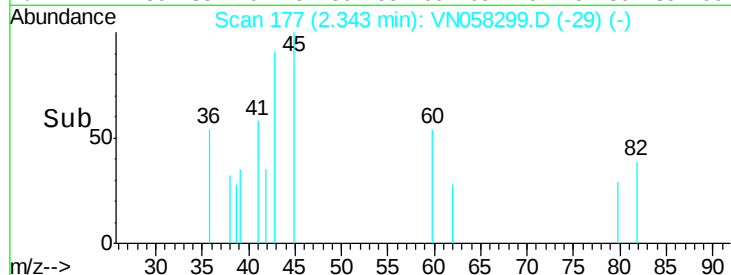
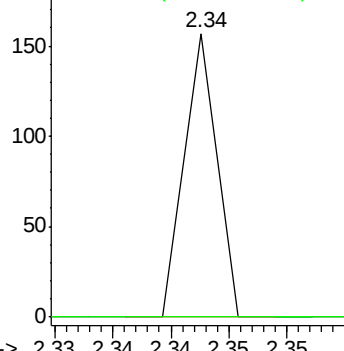
62 100

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: 0.899 ug/l

RT: 2.55 min Scan# 241

Delta R.T. 0.01 min

Lab File: VN058299.D

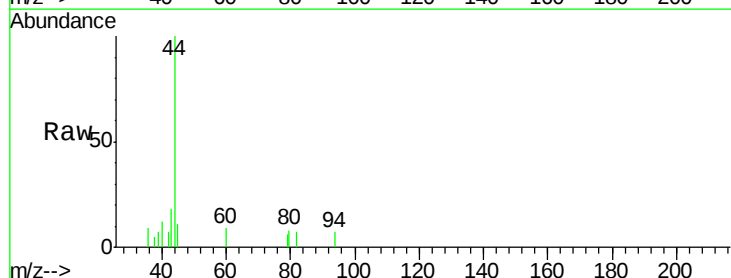
Acq: 23 Sep 2019 17:43

Tgt Ion: 94 Resp: 309

Ion Ratio Lower Upper

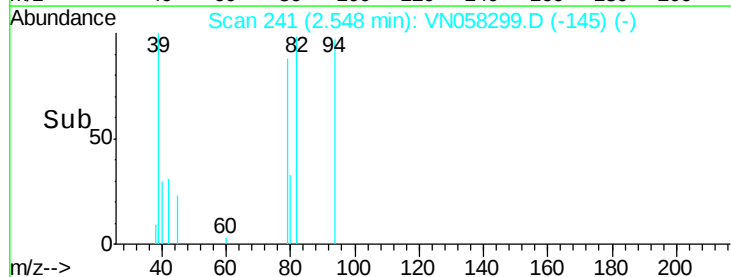
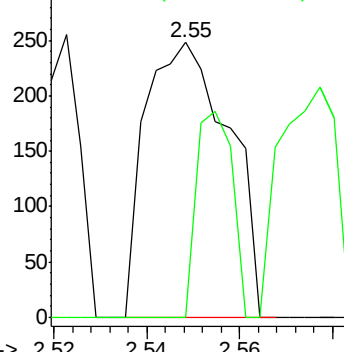
94 100

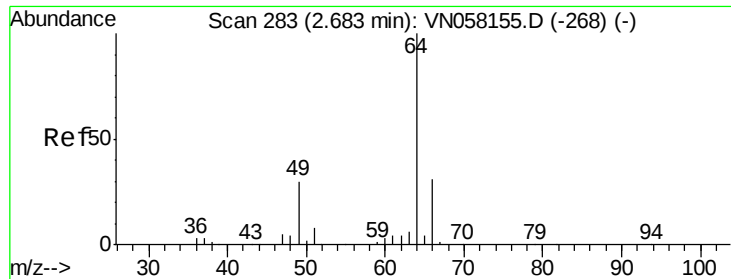
96 0.0 73.3 109.9#



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: 2.79 min Scan# 315

Delta R.T. 0.10 min

Lab File: VN058299.D

Acq: 23 Sep 2019 17:43

Instrument :

MSVOA_N

ClientSampleId :

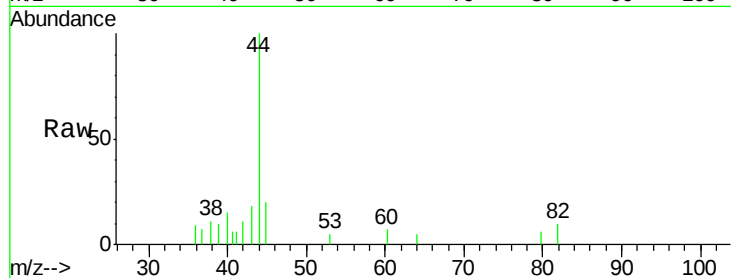
FB02-20190918RE

Tot Ion: 64 Resp: 30

Ion Ratio Lower Upper

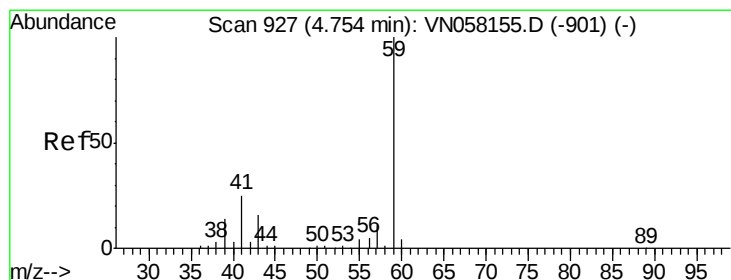
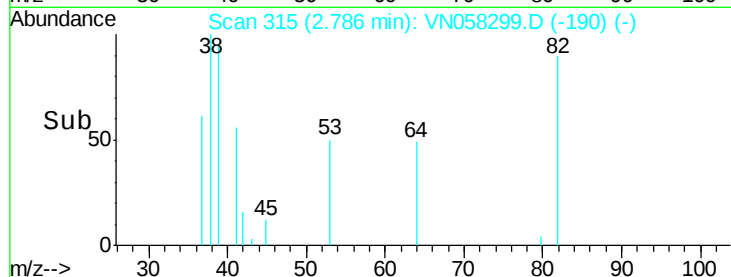
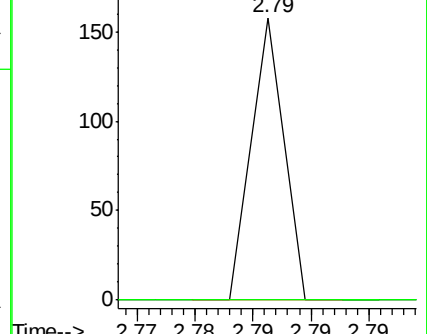
64 100

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: 0.594 ug/l

RT: 4.75 min Scan# 925

Delta R.T. -0.01 min

Lab File: VN058299.D

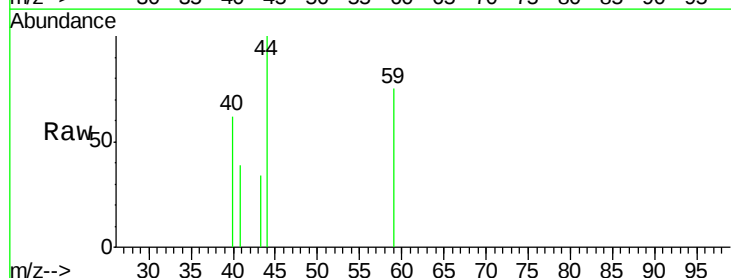
Acq: 23 Sep 2019 17:43

Tgt Ion: 59 Resp: 464

Ion Ratio Lower Upper

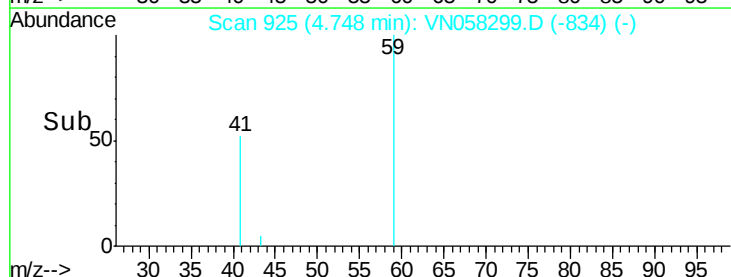
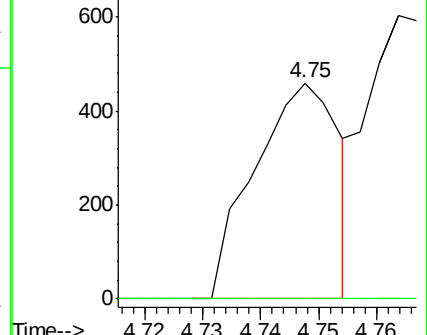
59 100

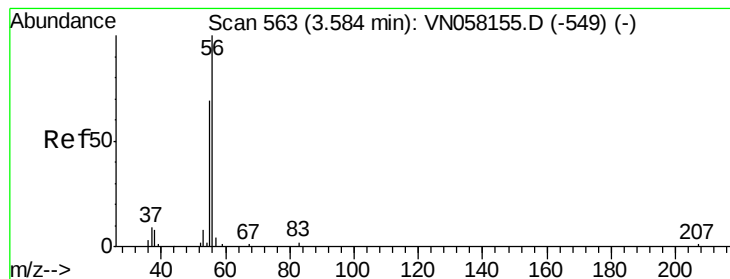
57 0.0 8.6 13.0#



Abundance Ion 59.00 (58.70 to 59.70): VNC

Ion 57.00 (56.70 to 57.70): VNC





#13

Acrolein

Concen: 0.259 ug/l

RT: 3.60 min Scan# 568

Delta R.T. 0.02 min

Lab File: VN058299.D

Acq: 23 Sep 2019 17:43

Instrument :

MSVOA_N

ClientSampleId :

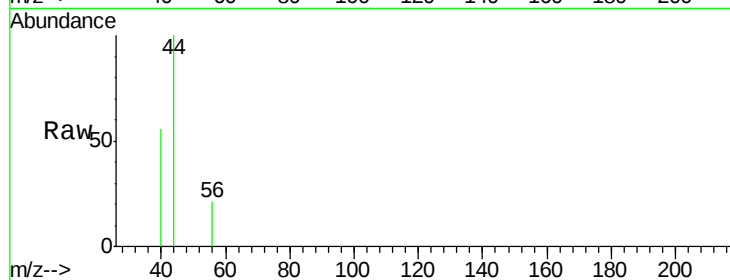
FB02-20190918RE

Tot Ion: 56 Resp: 30

Ion Ratio Lower Upper

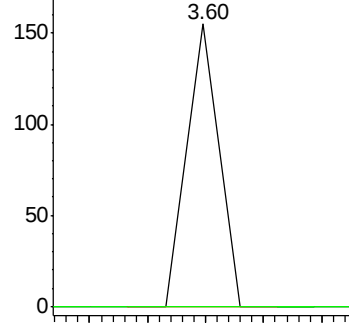
56 100

55 0.0 56.1 84.1#

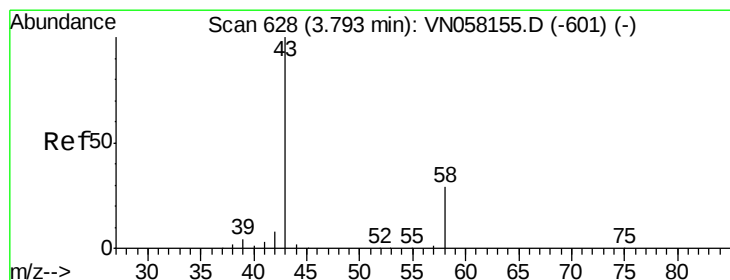
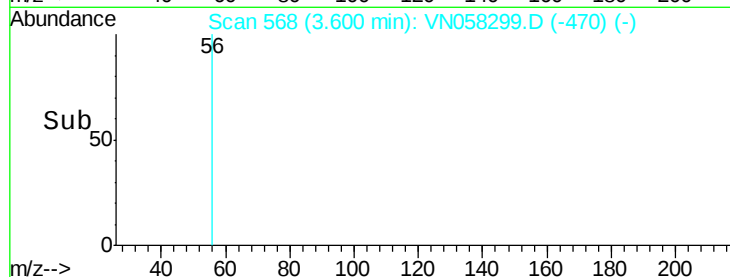


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



Time-->



#16

Acetone

Concen: 13.175 ug/l

RT: 3.81 min Scan# 632

Delta R.T. 0.01 min

Lab File: VN058299.D

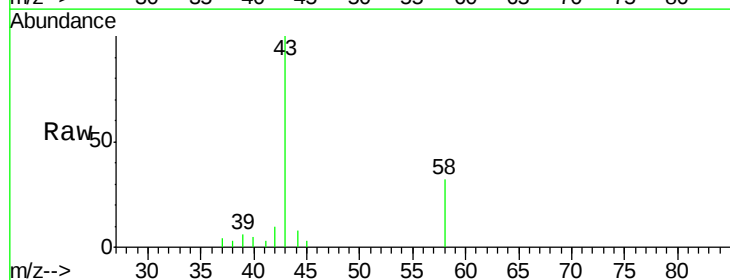
Acq: 23 Sep 2019 17:43

Tgt Ion: 43 Resp: 29376

Ion Ratio Lower Upper

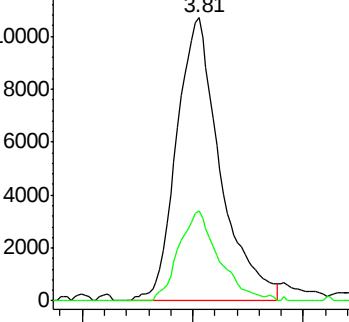
43 100

58 31.6 23.4 35.2

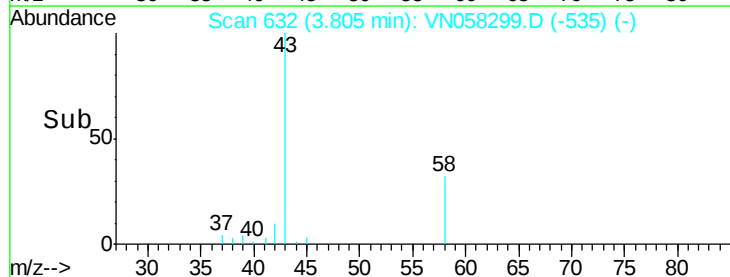


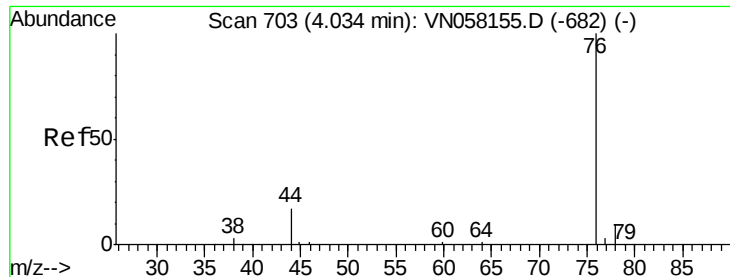
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->

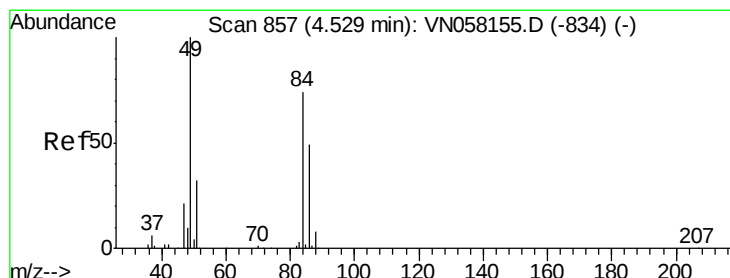
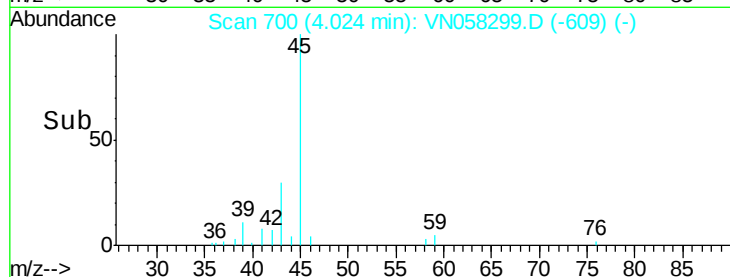
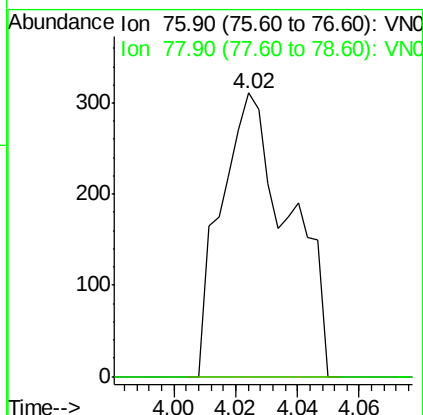
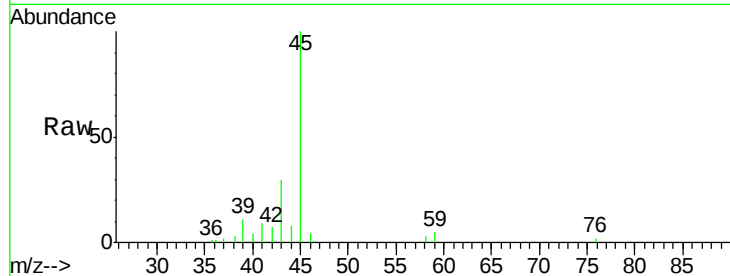




#17
Carbon Disulfide
Concen: 0.388 ug/l
RT: 4.02 min Scan# 700
Delta R.T. -0.01 min
Lab File: VN058299.D
Acq: 23 Sep 2019 17:43

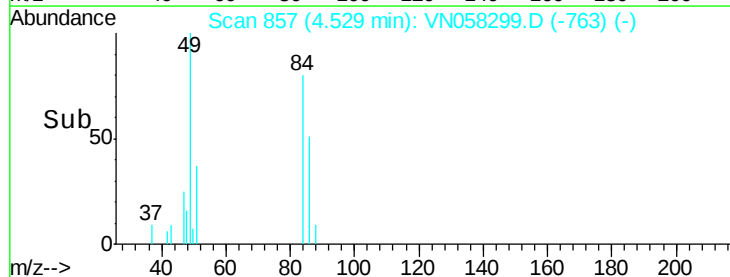
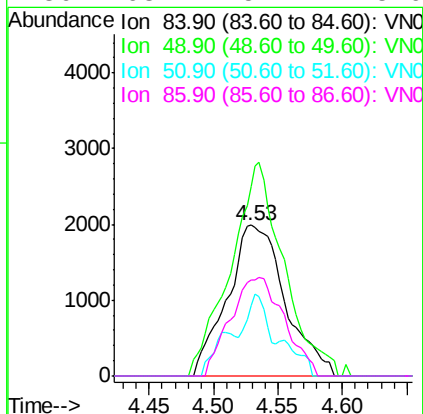
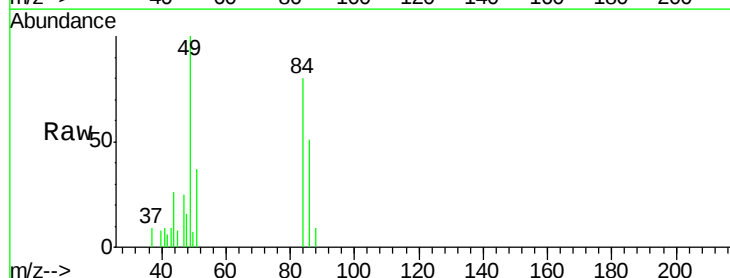
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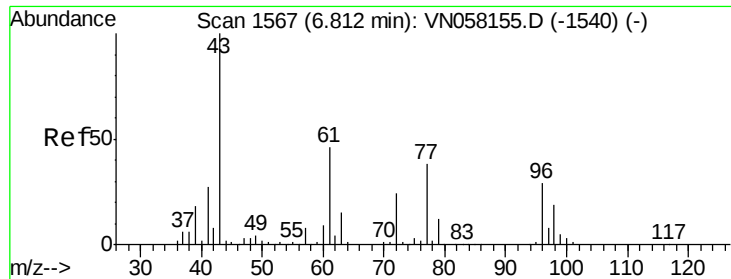
Tot Ion: 76 Resp: 478
Ion Ratio Lower Upper
76 100
78 0.0 7.7 11.5#



#20
Methylene Chloride
Concen: 1.377 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN058299.D
Acq: 23 Sep 2019 17:43

Tgt Ion: 84 Resp: 6217
Ion Ratio Lower Upper
84 100
49 125.3 107.5 161.3
51 46.4 33.9 50.9
86 63.4 52.4 78.6





#25

2-Butanone

Concen: 1.158 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.02 min

Lab File: VN058299.D

Acq: 23 Sep 2019 17:43

Instrument :

MSVOA_N

ClientSampleId :

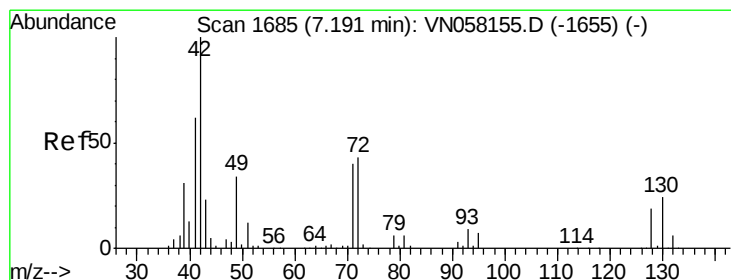
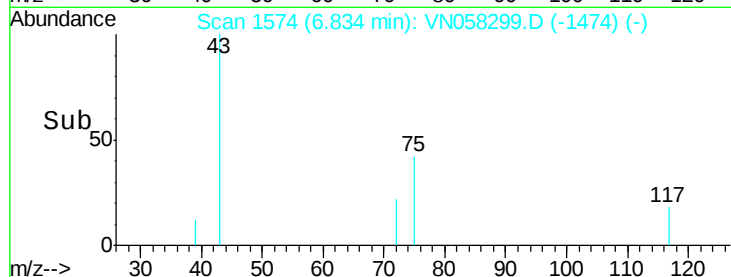
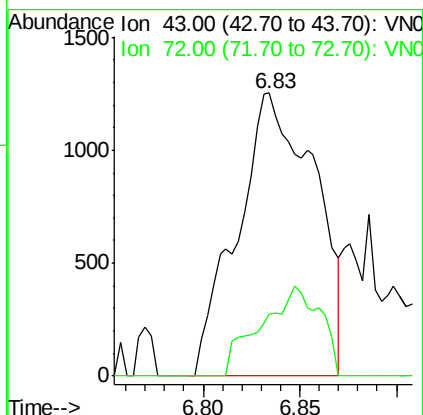
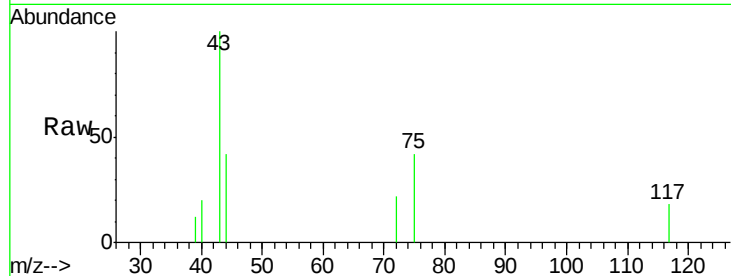
FB02-20190918RE

Tot Ion: 43 Resp: 3517

Ion Ratio Lower Upper

43 100

72 21.7 19.5 29.3



#29

Tetrahydrofuran

Concen: 0.227 ug/l

RT: 7.18 min Scan# 1682

Delta R.T. -0.01 min

Lab File: VN058299.D

Acq: 23 Sep 2019 17:43

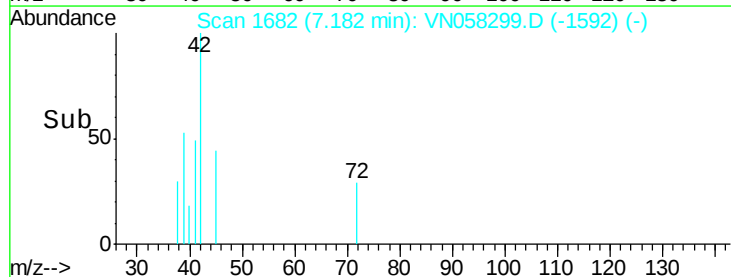
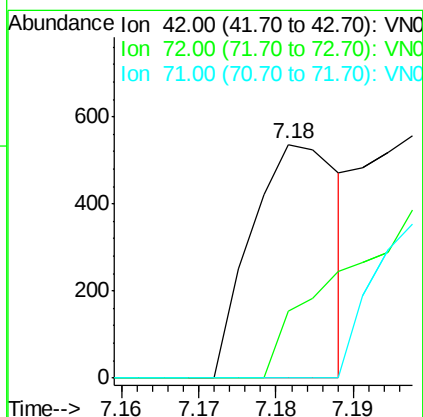
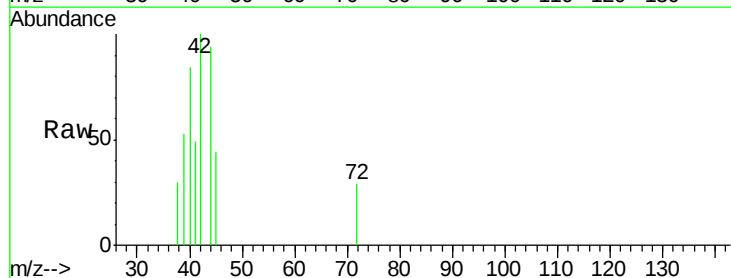
Tgt Ion: 42 Resp: 425

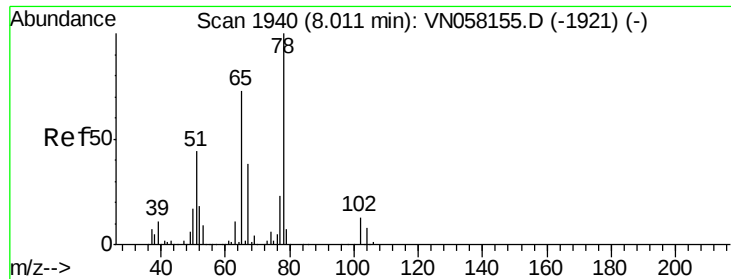
Ion Ratio Lower Upper

42 100

72 138.6 33.8 50.6#

71 92.0 31.4 47.0#

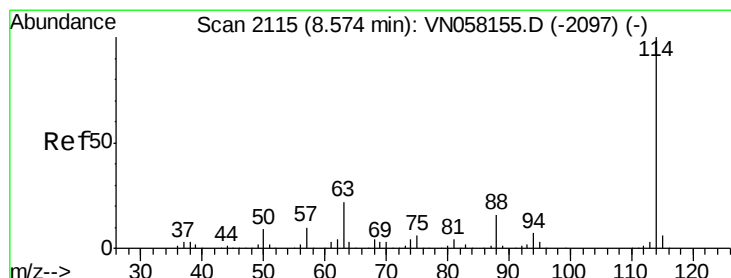
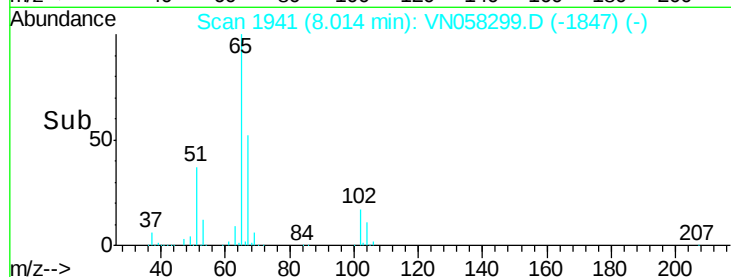
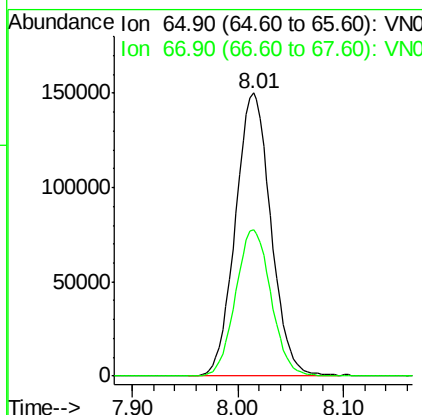
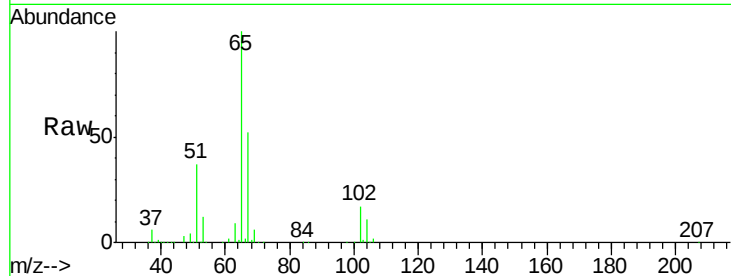




#33
 1,2-Dichloroethane-d4
 Concen: 53.372 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN058299.D
 Acq: 23 Sep 2019 17:43

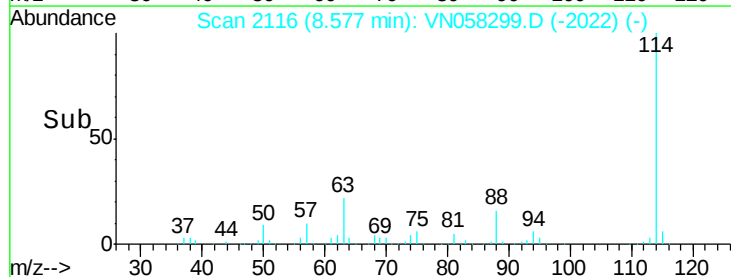
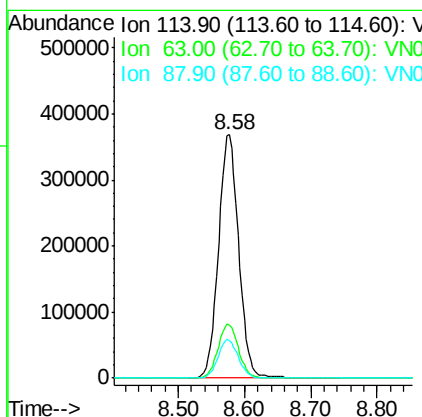
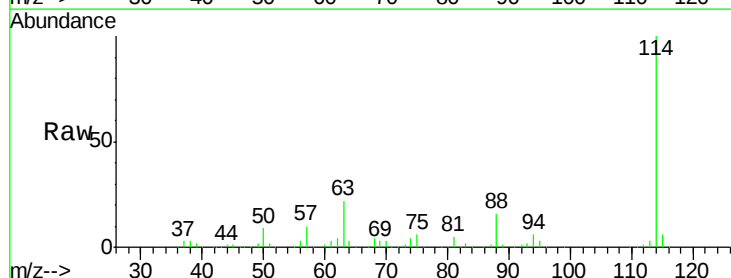
Instrument :
 MSVOA_N
 ClientSampleId :
 FB02-20190918RE

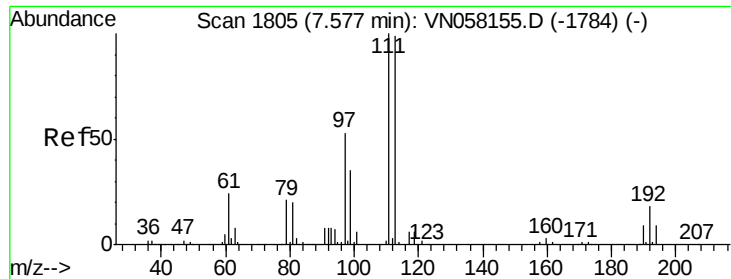
Tot Ion: 65 Resp: 350581
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN058299.D
 Acq: 23 Sep 2019 17:43

Tgt Ion: 114 Resp: 776839
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 44.2
 88 15.6 0.0 31.6

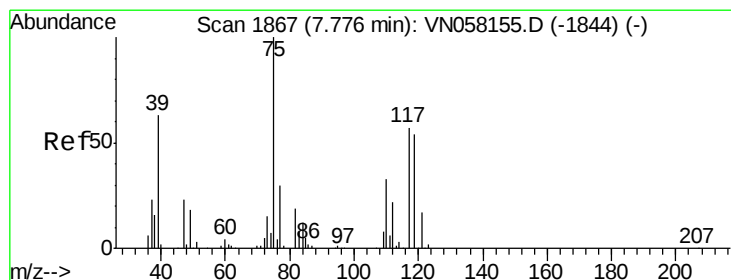
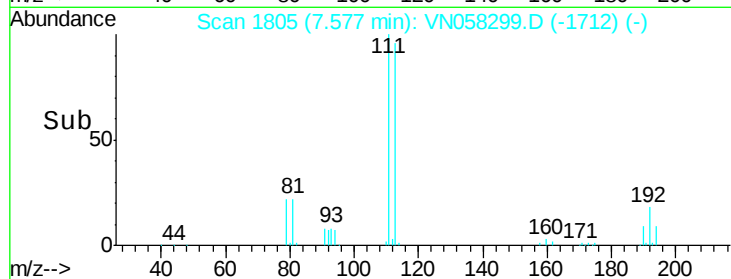
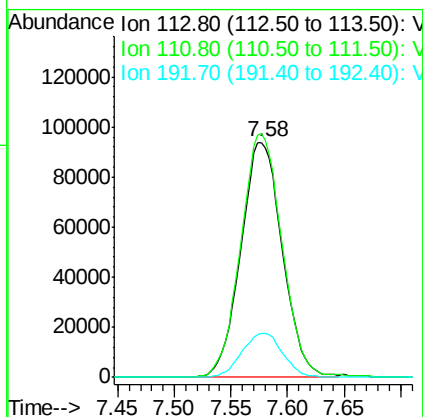
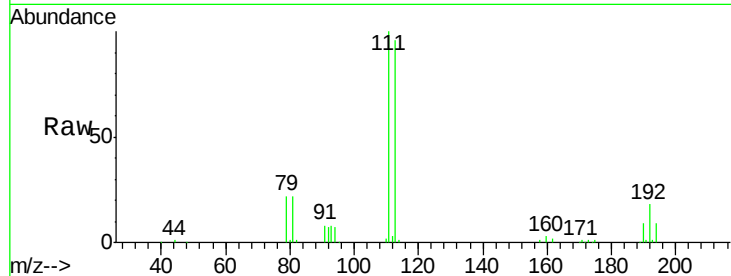




#35
 Dibromofluoromethane
 Concen: 50.781 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058299.D
 Acq: 23 Sep 2019 17:43

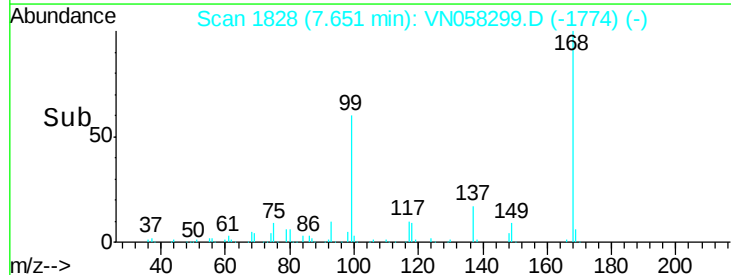
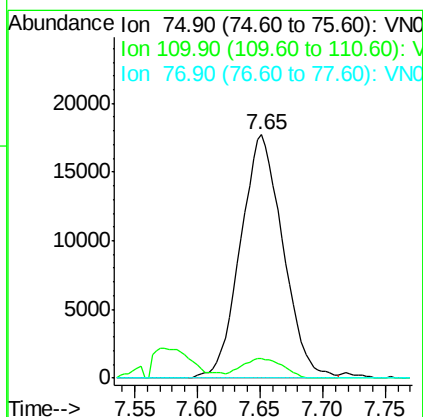
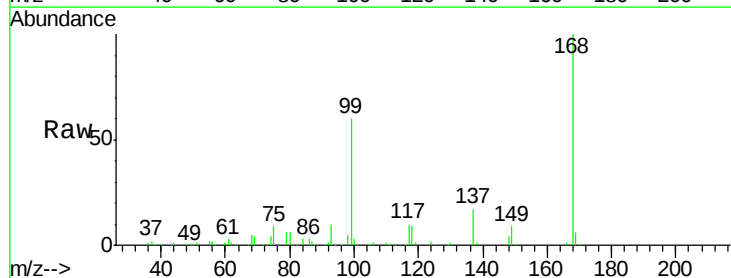
Instrument :
 MSVOA_N
 ClientSampleId :
 FB02-20190918RE

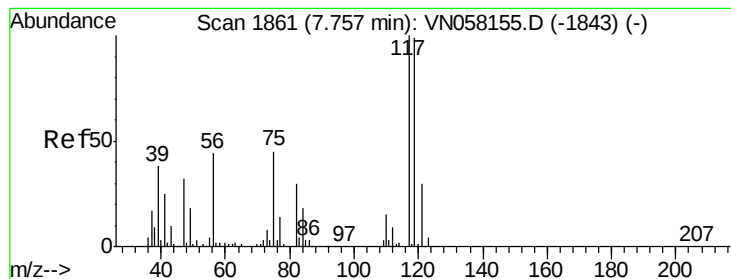
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.4	81.8	122.6
192	18.6	14.5	21.7



#36
 1,1-Dichloropropene
 Concen: 7.462 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058299.D
 Acq: 23 Sep 2019 17:43

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.9	16.6	49.7#
77	0.0	24.3	36.5#





#38

Carbon Tetrachloride

Concen: 8.545 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.10 min

Lab File: VN058299.D

Acq: 23 Sep 2019 17:43

Instrument :

MSVOA_N

ClientSampleId :

FB02-20190918RE

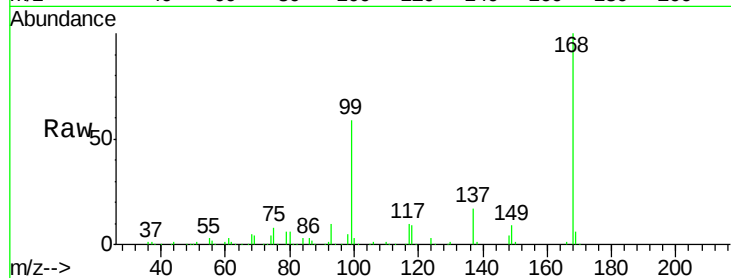
Tot Ion:117 Resp: 48120

Ion Ratio Lower Upper

117 100

119 4.4 78.6 117.8#

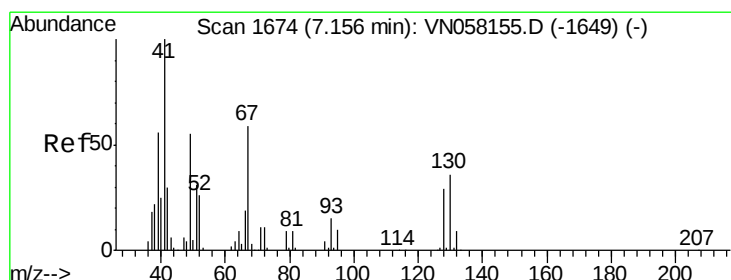
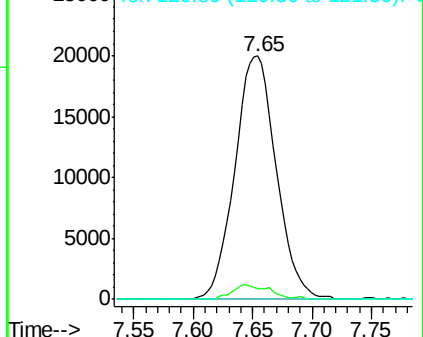
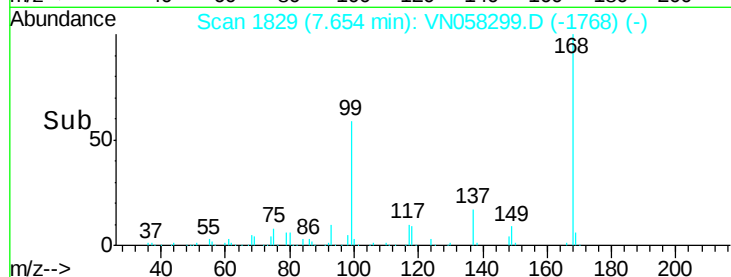
121 0.0 24.1 36.1#



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: 1.246 ug/l

RT: 7.19 min Scan# 1685

Delta R.T. 0.04 min

Lab File: VN058299.D

Acq: 23 Sep 2019 17:43

Tgt Ion: 41 Resp: 1001

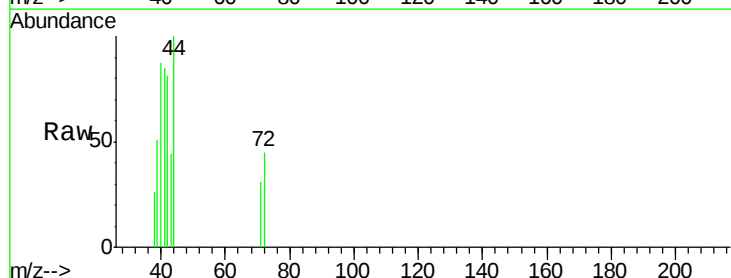
Ion Ratio Lower Upper

41 100

39 92.9 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

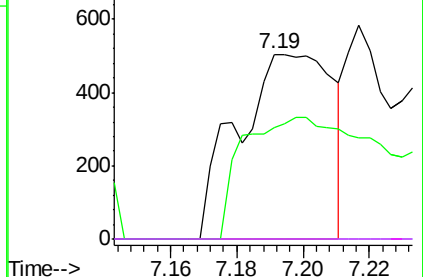
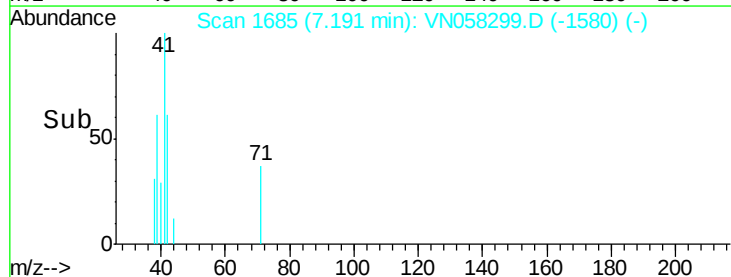


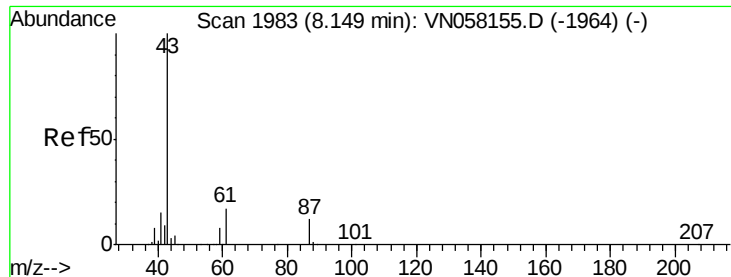
Abundance Ion 41.00 (40.70 to 41.70): VNC

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: 1.588 ug/l

RT: 8.28 min Scan# 2024

Delta R.T. 0.13 min

Lab File: VN058299.D

Acq: 23 Sep 2019 17:43

Instrument :

MSVOA_N

ClientSampleId :

FB02-20190918RE

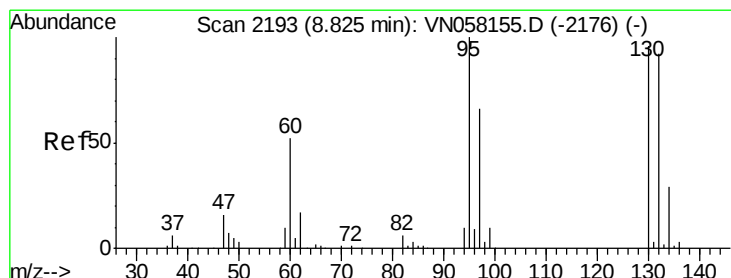
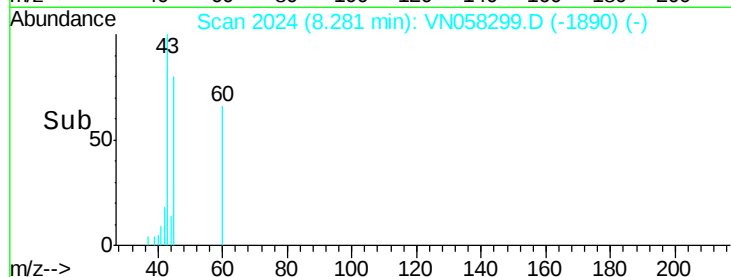
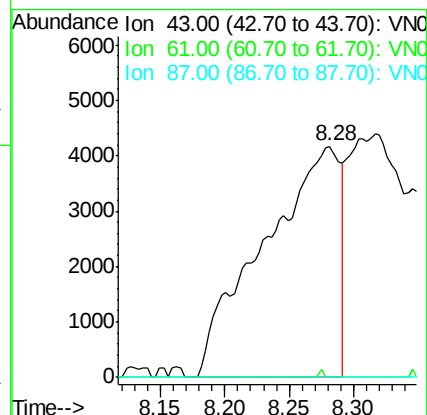
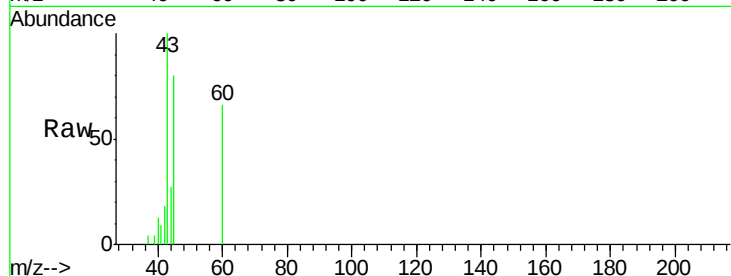
Tot Ion: 43 Resp: 17237

Ion Ratio Lower Upper

43 100

61 0.0 19.7 29.5#

87 0.0 9.4 14.2#



#44

Trichloroethene

Concen: 0.416 ug/l

RT: 8.83 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VN058299.D

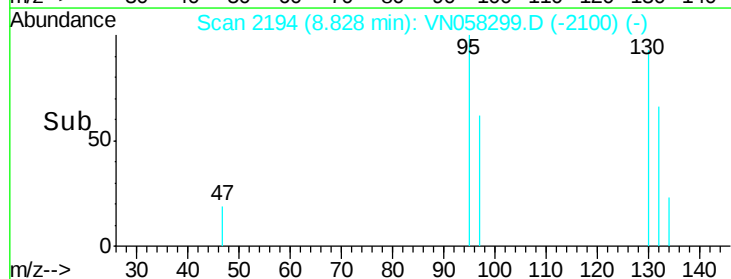
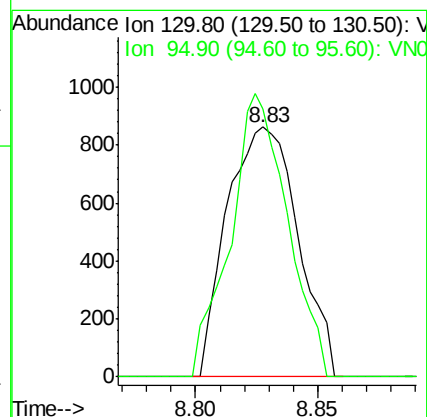
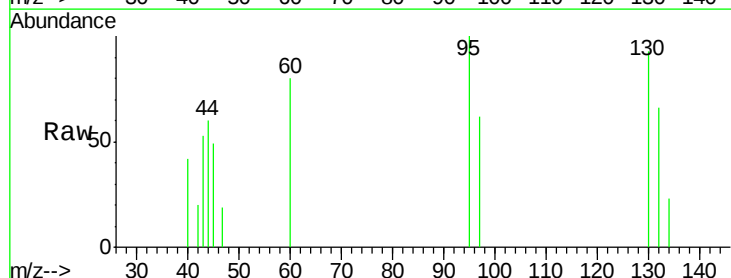
Acq: 23 Sep 2019 17:43

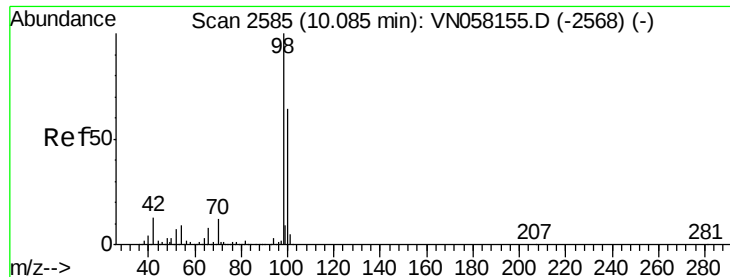
Tgt Ion: 130 Resp: 1741

Ion Ratio Lower Upper

130 100

95 107.7 0.0 207.8





#50

Toluene-d8

Concen: 53.023 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058299.D

Acq: 23 Sep 2019 17:43

Instrument :

MSVOA_N

ClientSampleId :

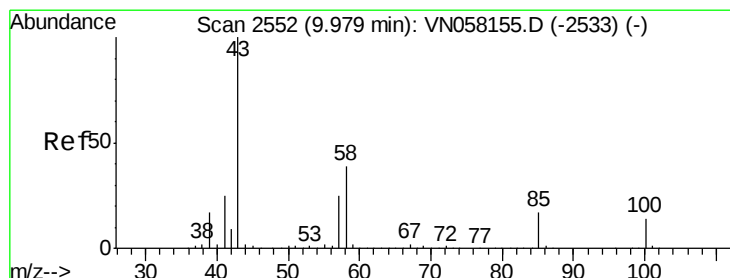
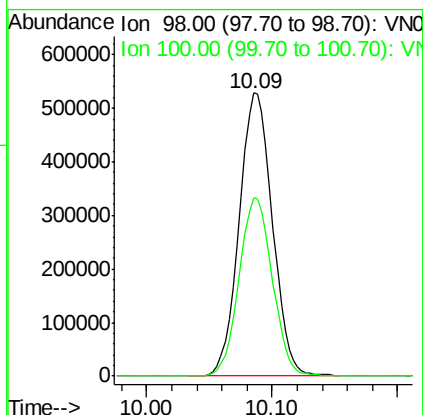
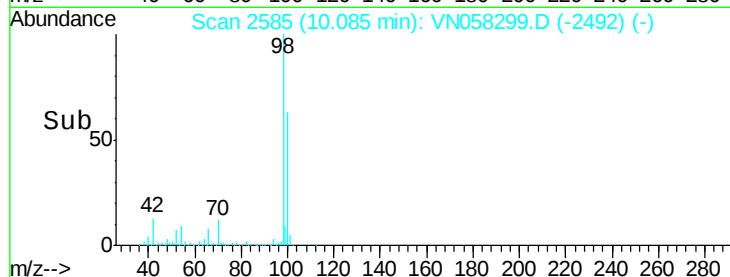
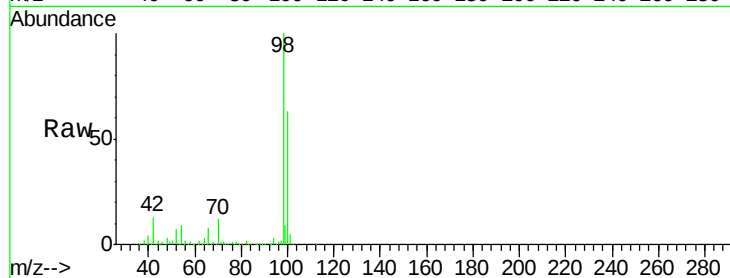
FB02-20190918RE

Tot Ion: 98 Resp: 975619

Ion Ratio Lower Upper

98 100

100 63.2 51.1 76.7



#51

4-Methyl-2-Pentanone

Concen: 0.246 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN058299.D

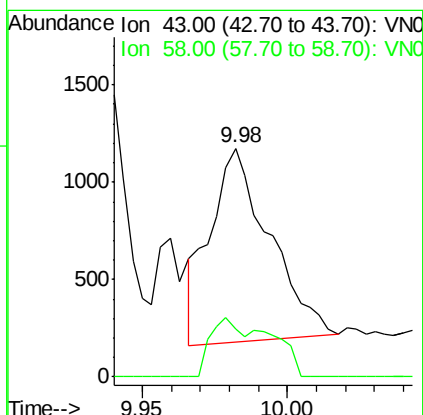
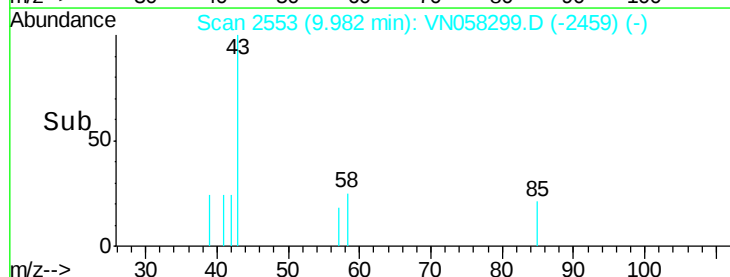
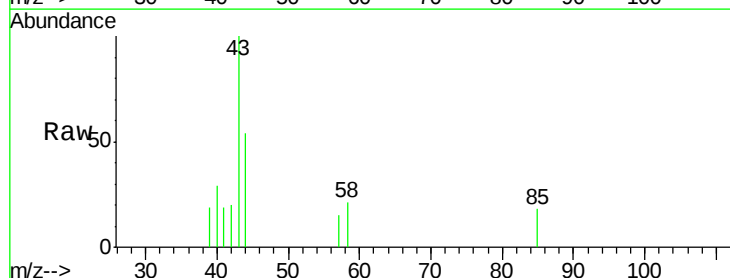
Acq: 23 Sep 2019 17:43

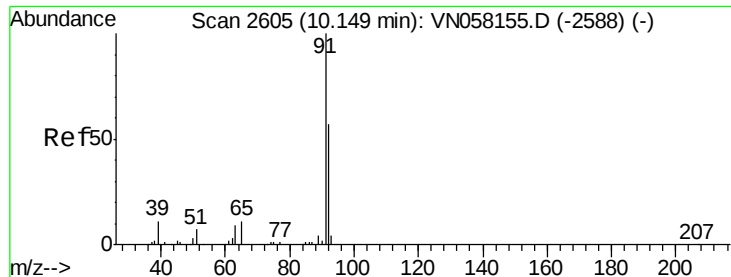
Tgt Ion: 43 Resp: 1421

Ion Ratio Lower Upper

43 100

58 0.0 30.2 45.4#





#52

Toluene

Concen: 4.686 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VN058299.D

Acq: 23 Sep 2019 17:43

Instrument :

MSVOA_N

ClientSampleId :

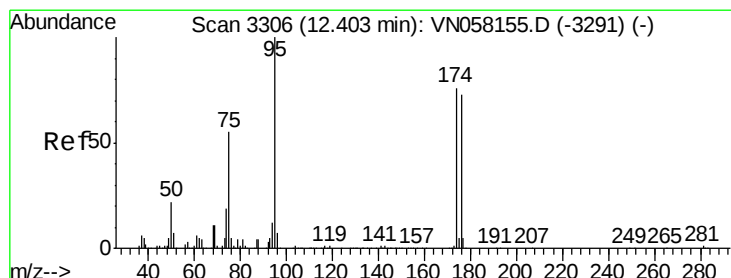
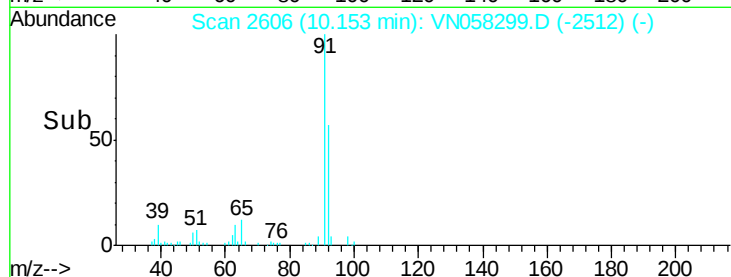
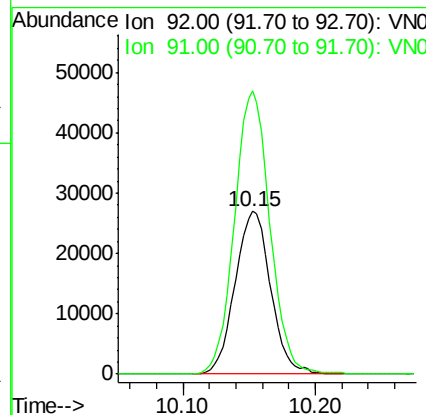
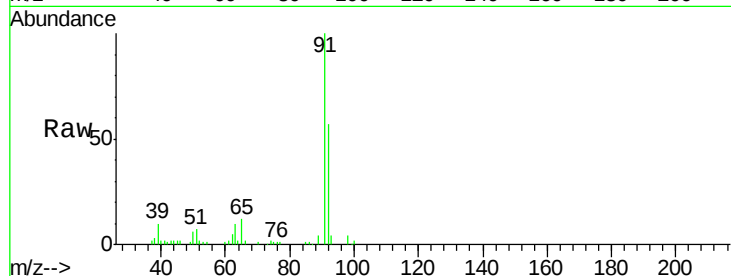
FB02-20190918RE

Tot Ion: 92 Resp: 50246

Ion Ratio Lower Upper

92 100

91 172.7 140.2 210.2



#62

4-Bromofluorobenzene

Concen: 44.184 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058299.D

Acq: 23 Sep 2019 17:43

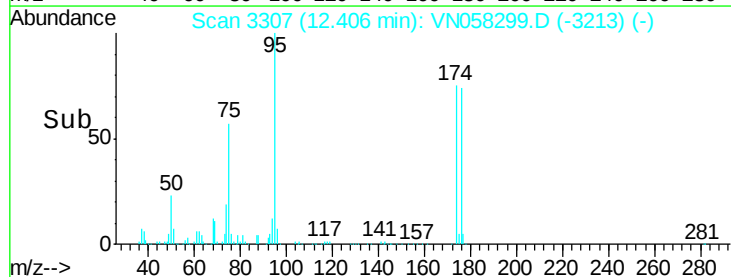
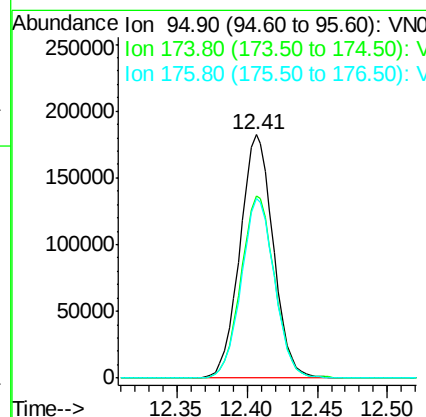
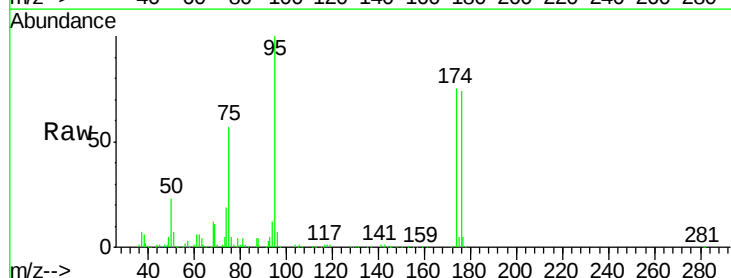
Tgt Ion: 95 Resp: 301992

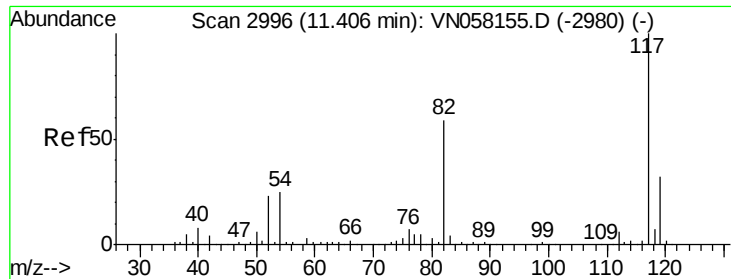
Ion Ratio Lower Upper

95 100

174 75.6 0.0 152.2

176 73.5 0.0 148.0

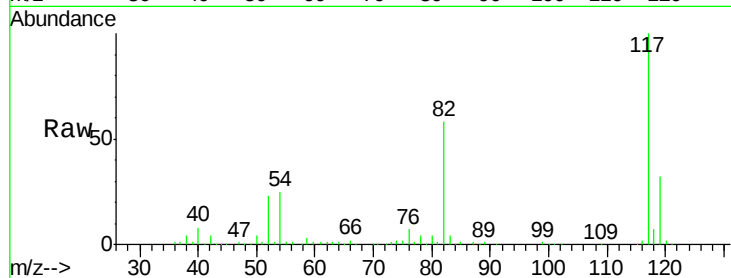




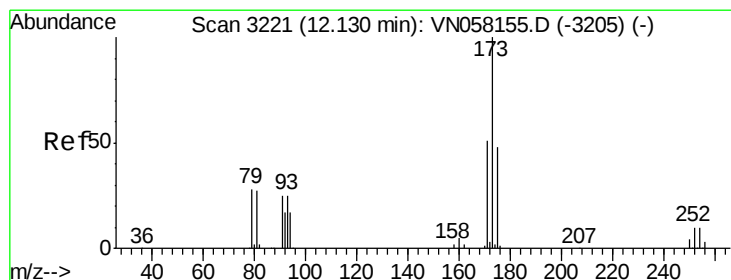
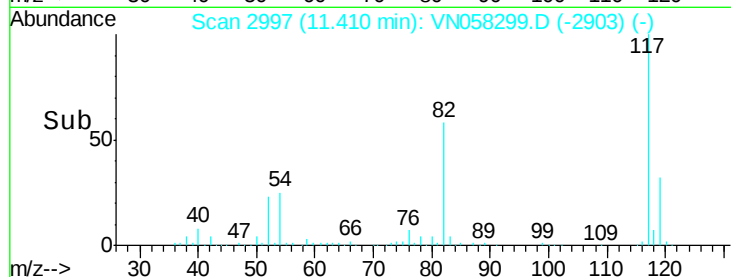
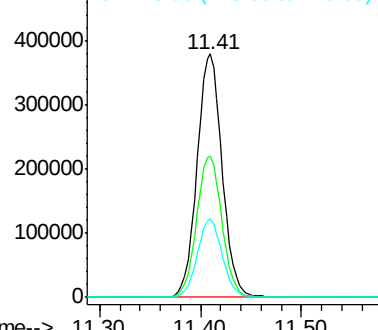
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN058299.D
Acq: 23 Sep 2019 17:43

Instrument :
MSVOA_N
ClientSampleId :
FB02-20190918RE

Tot Ion:117 Resp: 658423
Ion Ratio Lower Upper
117 100
82 57.9 46.9 70.3
119 32.0 25.3 37.9

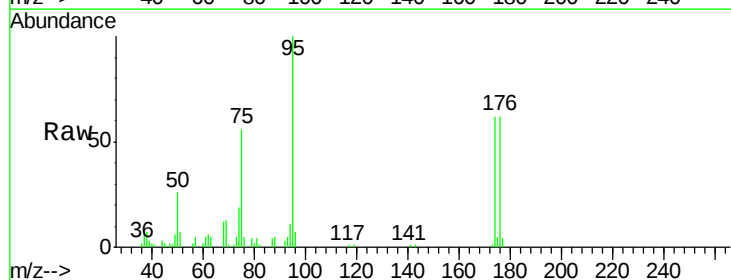


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

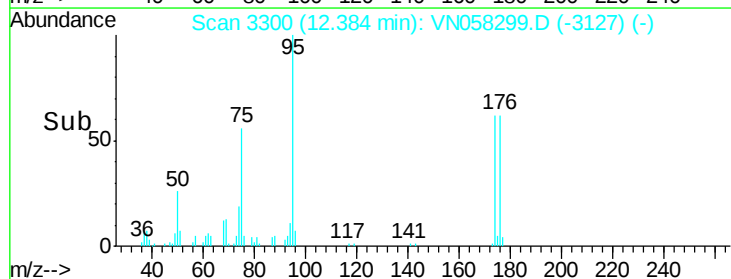
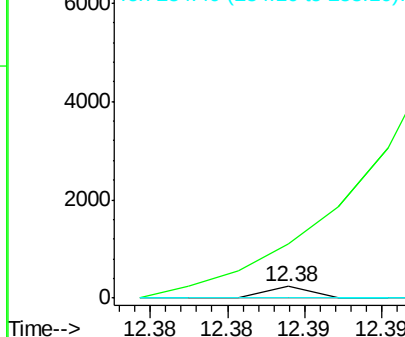


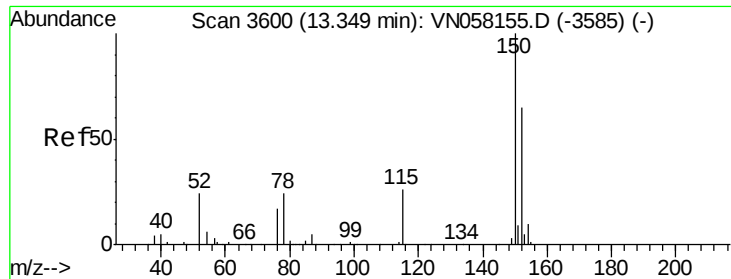
#71
Bromoform
Concen: 3.608 ug/l
RT: 12.38 min Scan# 3300
Delta R.T. 0.25 min
Lab File: VN058299.D
Acq: 23 Sep 2019 17:43

Tgt Ion:173 Resp: 44
Ion Ratio Lower Upper
173 100
175 0.0 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: VN058299.D

Acq: 23 Sep 2019 17:43

Instrument :

MSVOA_N

ClientSampleId :

FB02-20190918RE

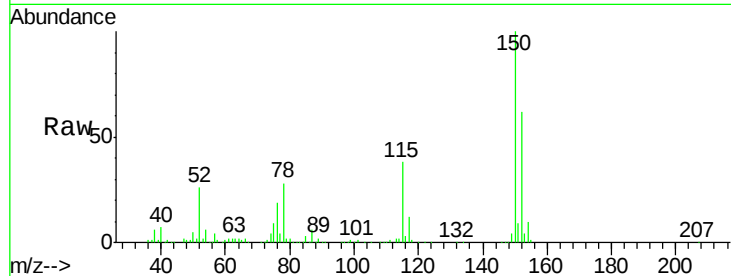
Tot Ion:152 Resp: 258319

Ion Ratio Lower Upper

152 100

115 61.5 30.1 90.3

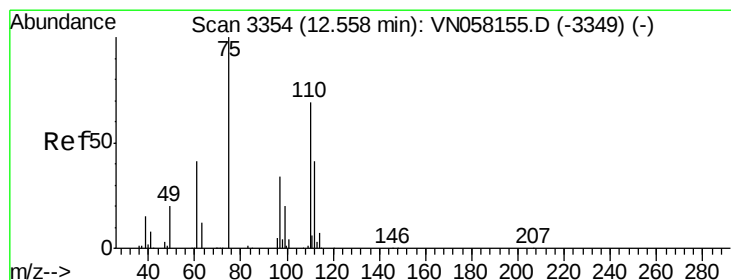
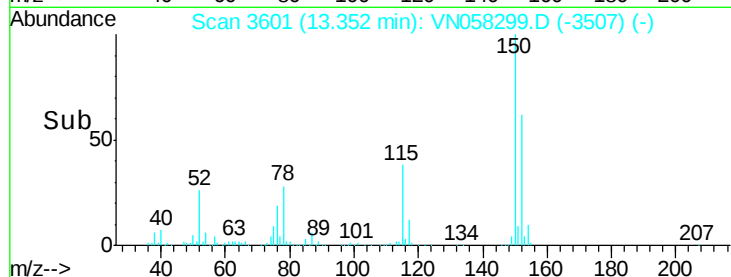
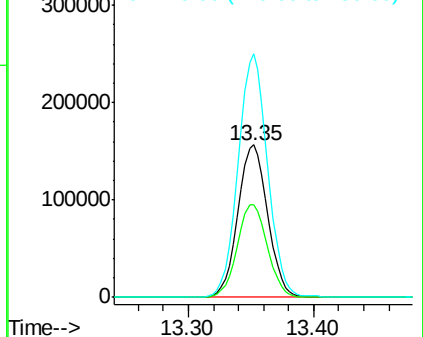
150 158.2 0.0 346.4



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: 36.659 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058299.D

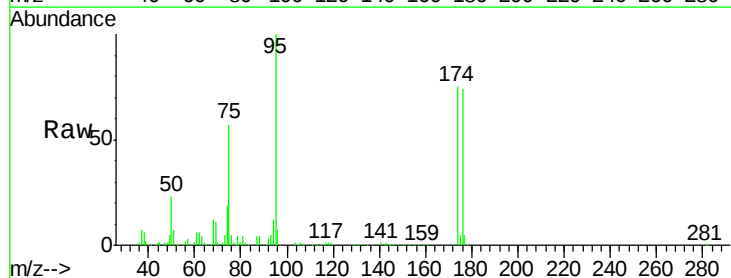
Acq: 23 Sep 2019 17:43

Tgt Ion: 75 Resp: 169477

Ion Ratio Lower Upper

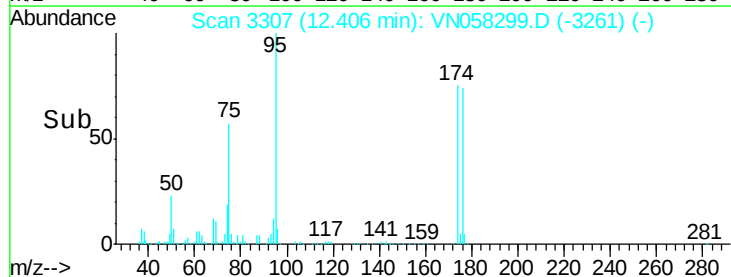
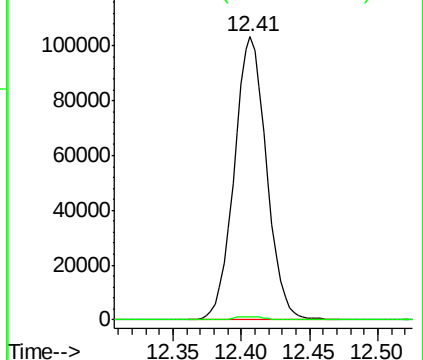
75 100

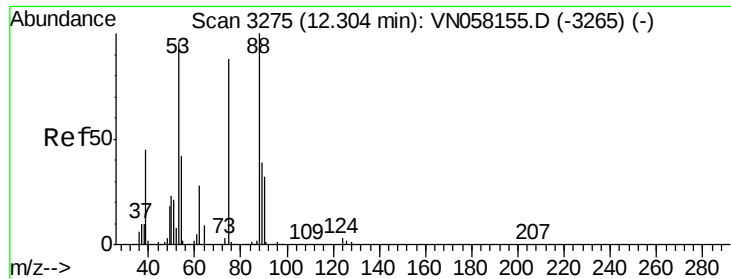
77 1.1 0.0 0.0#



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: 102.273 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058299.D

Acq: 23 Sep 2019 17:43

Instrument :

MSVOA_N

ClientSampleId :

FB02-20190918RE

Tot Ion: 75 Resp: 169477

Ion Ratio Lower Upper

75 100

53 0.1 90.1 135.1#

89 0.0 36.2 54.2#

