

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102820\
 Data File : VN064357.D
 Acq On : 28 Oct 2020 17:08
 Operator : JC/MD
 Sample : L4526-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VNJ-225

Quant Time: Oct 29 02:43:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 27 12:23:17 2020
 Response via : Initial Calibration

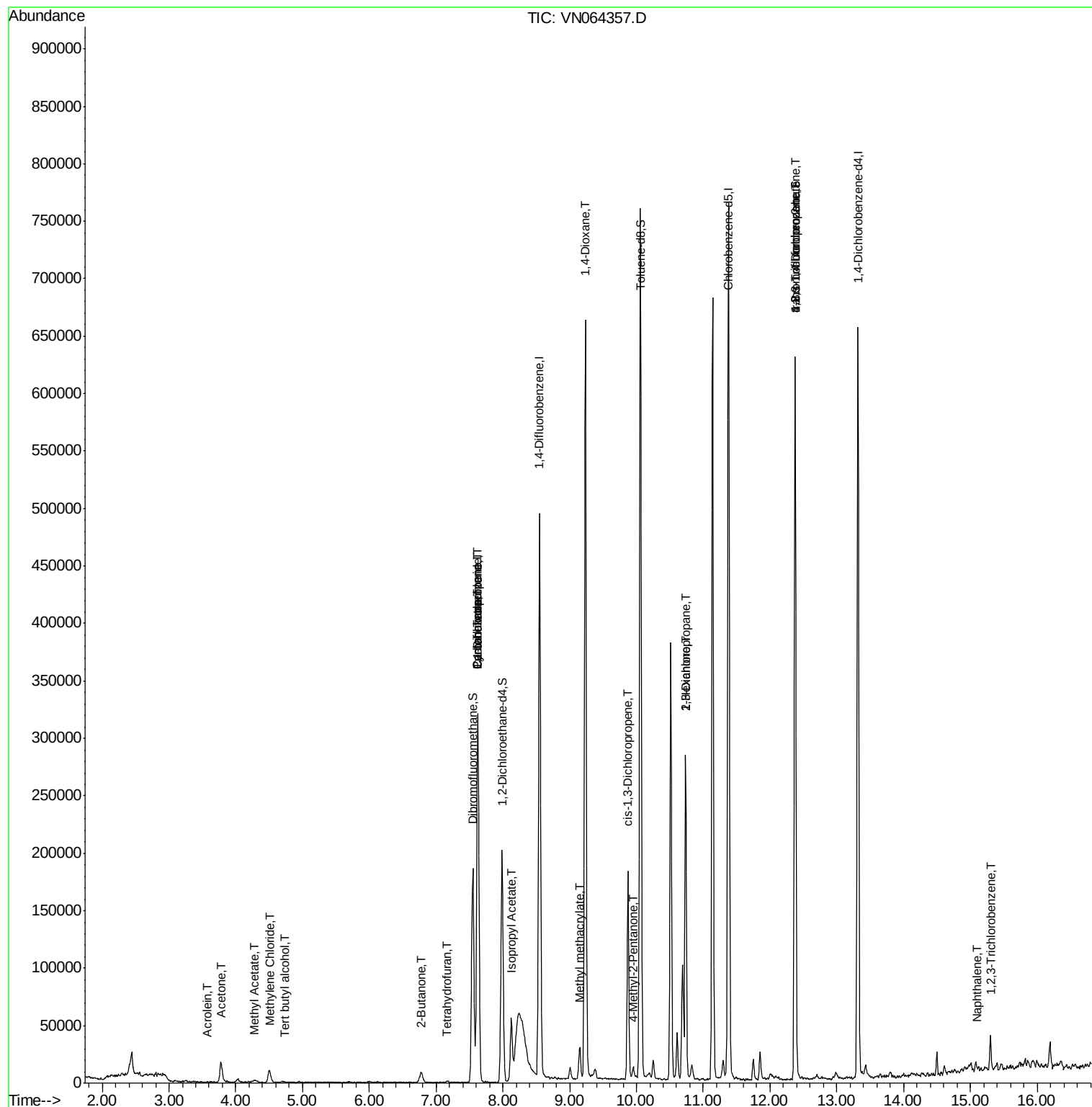
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	236105	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	417733	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	411782	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	166278	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	186165	49.07	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.14%	
35) Dibromofluoromethane	7.55	113	140250	50.35	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.70%	
50) Toluene-d8	10.06	98	511801	49.67	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.34%	
62) 4-Bromofluorobenzene	12.38	95	217449	54.13	ug/l	0.00
Spiked Amount 50.000			Recovery	=	108.26%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.74	59	172	0.312	ug/l #	70
13) Acrolein	3.58	56	31	17.920	ug/l #	10
16) Acetone	3.78	43	31661	17.649	ug/l	97
18) Methyl Acetate	4.28	43	2701	0.948	ug/l	98
20) Methylene Chloride	4.51	84	7847	2.916	ug/l #	75
25) 2-Butanone	6.78	43	566	0.297	ug/l	95
29) Tetrahydrofuran	7.16	42	635	0.513	ug/l #	66
31) Cyclohexane	7.62	56	5118	1.162	ug/l #	10
36) 1,1-Dichloropropene	7.62	75	19567	4.641	ug/l #	48
38) Carbon Tetrachloride	7.62	117	25779	5.274	ug/l #	17
43) Isopropyl Acetate	8.13	43	70253	9.651	ug/l #	90
48) Methyl methacrylate	9.14	41	2632	0.701	ug/l #	16
49) 1,4-Dioxane	9.24	88	31	0.560	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	6551	1.548	ug/l	88
54) cis-1,3-Dichloropropene	9.87	75	30566	5.764	ug/l #	63
57) 1,3-Dichloropropane	10.74	76	2744	0.550	ug/l #	44
59) 2-Hexanone	10.74	43	45402	14.568	ug/l #	52
76) 1,2,3-Trichloropropane	12.38	75	117603	29.534	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	117603	85.074	ug/l #	8
95) Naphthalene	15.11	128	586	2.452	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.31	180	63	2.202	ug/l #	14

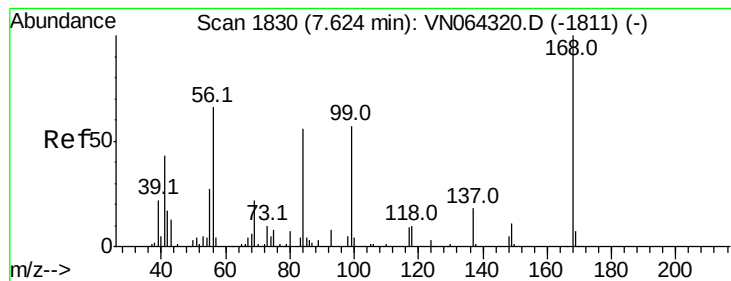
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN102820\
Data File : VN064357.D
Acq On : 28 Oct 2020 17:08
Operator : JC/MD
Sample : L4526-02
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VNJ-225

Quant Time: Oct 29 02:43:41 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N102720W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 27 12:23:17 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN064357.D

Acq: 28 Oct 2020 17:08

Instrument :

MSVOA_N

ClientSampleId :

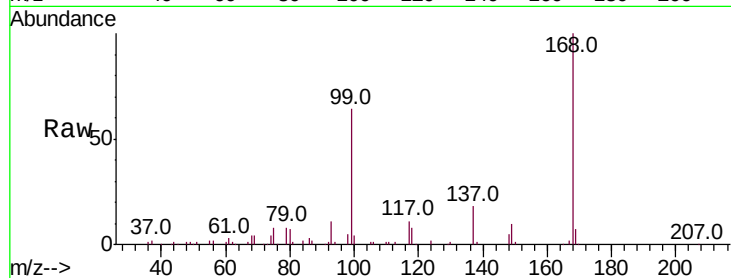
VNJ-225

Tot Ion:168 Resp: 236105

Ion Ratio Lower Upper

168 100

99 64.0 52.7 79.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.62

100000

80000

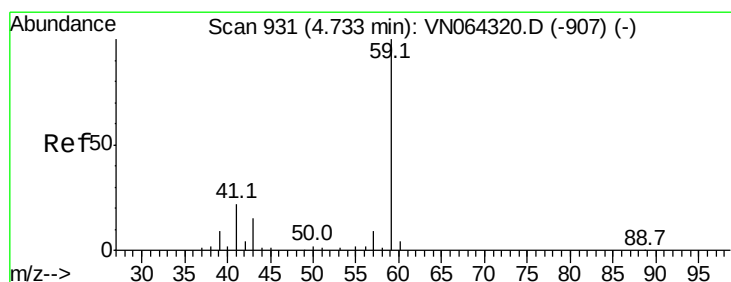
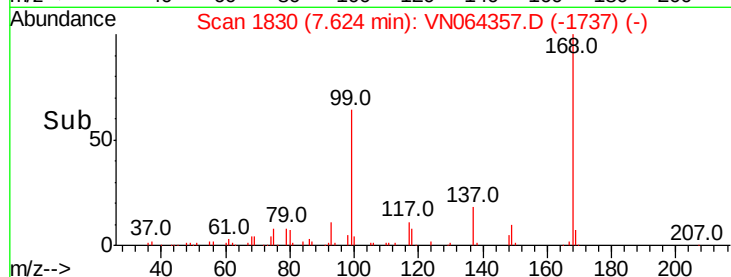
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.312 ug/l

RT: 4.74 min Scan# 932

Delta R.T. 0.00 min

Lab File: VN064357.D

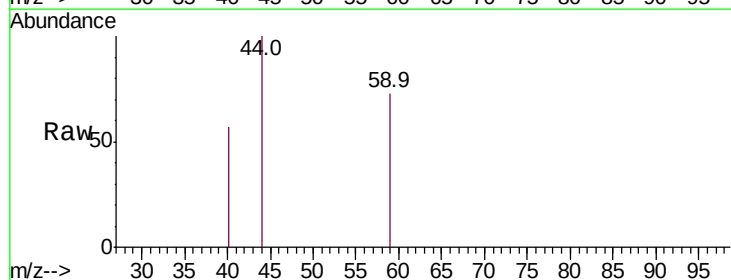
Acq: 28 Oct 2020 17:08

Tgt Ion: 59 Resp: 172

Ion Ratio Lower Upper

59 100

57 0.0 9.4 14.0#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.74

300

250

200

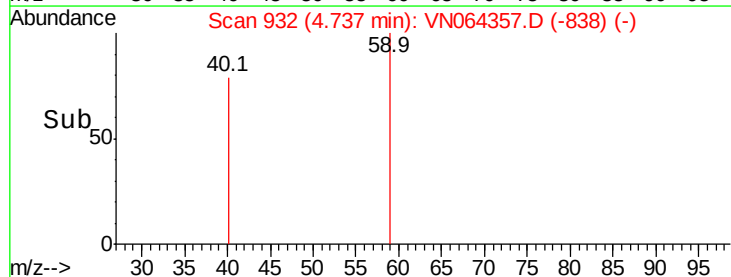
150

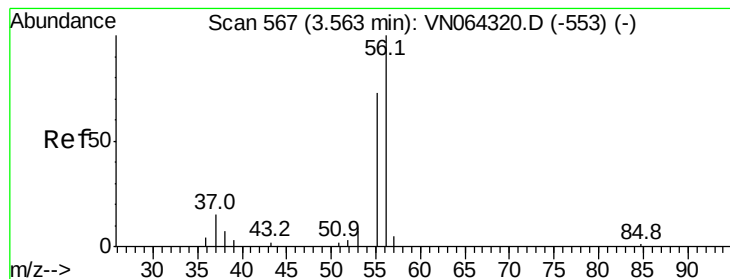
100

50

0

Time-->





#13

Acrolein

Concen: 17.920 ug/l

RT: 3.58 min Scan# 573

Delta R.T. 0.02 min

Lab File: VN064357.D

Acq: 28 Oct 2020 17:08

Instrument :

MSVOA_N

ClientSampleId :

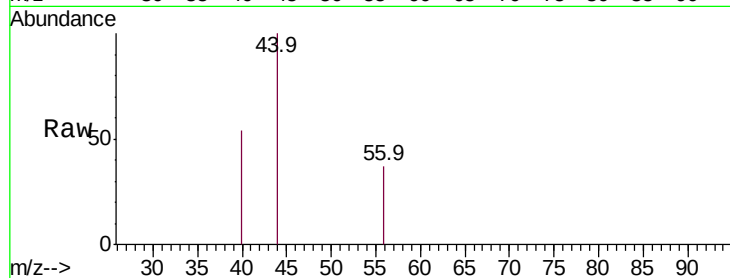
VNJ-225

Tot Ion: 56 Resp: 31

Ion Ratio Lower Upper

56 100

55 0.0 62.6 94.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.58

150

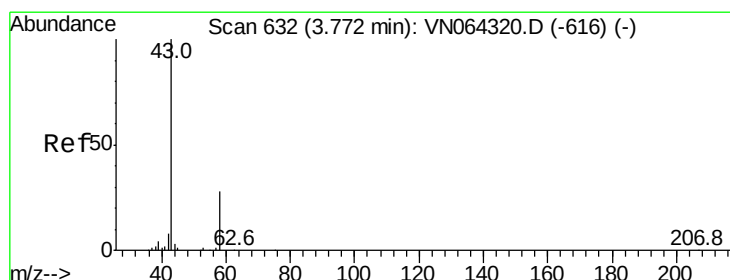
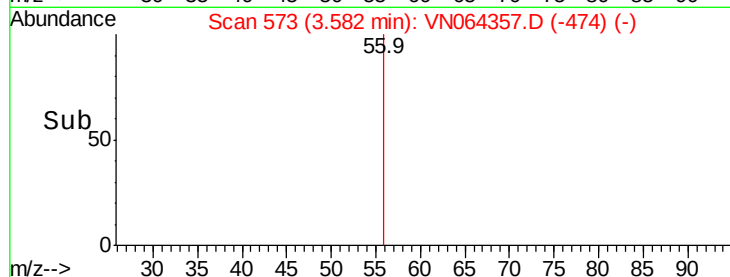
100

50

0

Time-->

3.57 3.58 3.58 3.59 3.59



#16

Acetone

Concen: 17.649 ug/l

RT: 3.78 min Scan# 633

Delta R.T. 0.00 min

Lab File: VN064357.D

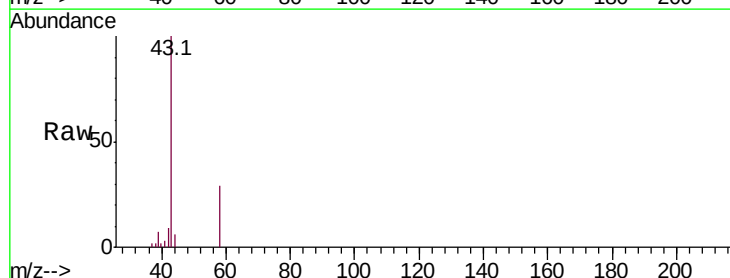
Acq: 28 Oct 2020 17:08

Tgt Ion: 43 Resp: 31661

Ion Ratio Lower Upper

43 100

58 29.0 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.78

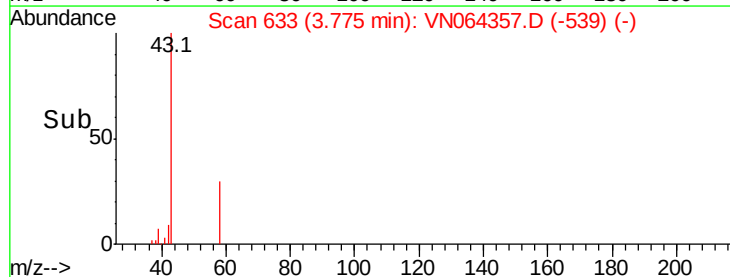
10000

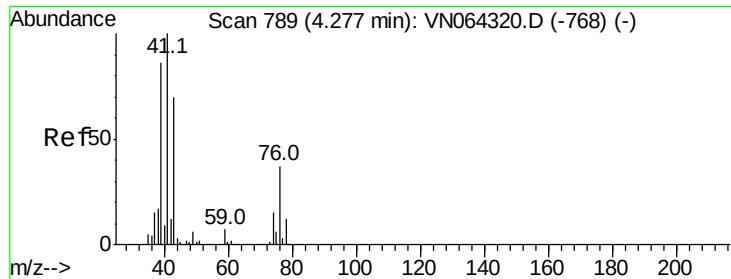
5000

0

Time-->

3.70 3.75 3.80 3.85

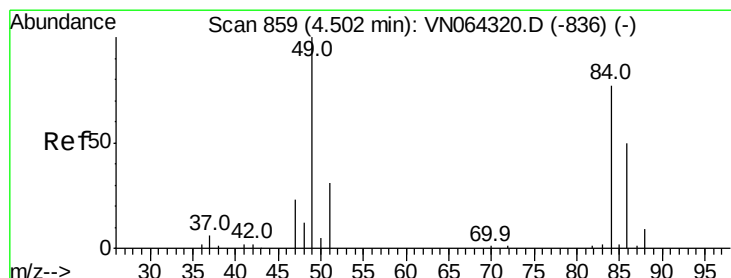
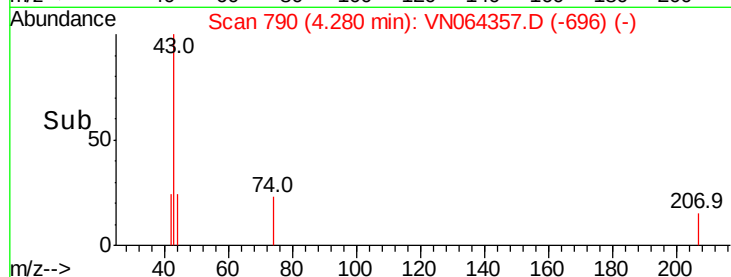
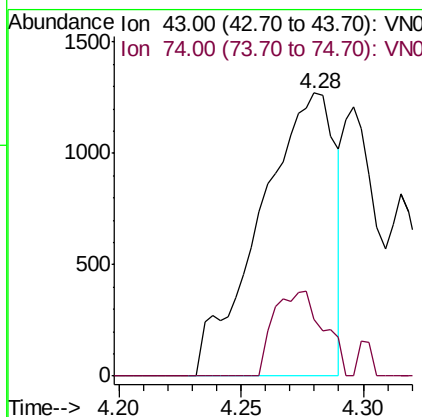
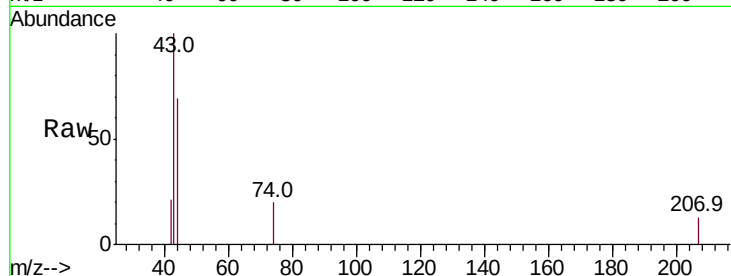




#18
Methyl Acetate
Concen: 0.948 ug/l
RT: 4.28 min Scan# 790
Delta R.T. 0.00 min
Lab File: VN064357.D
Acq: 28 Oct 2020 17:08

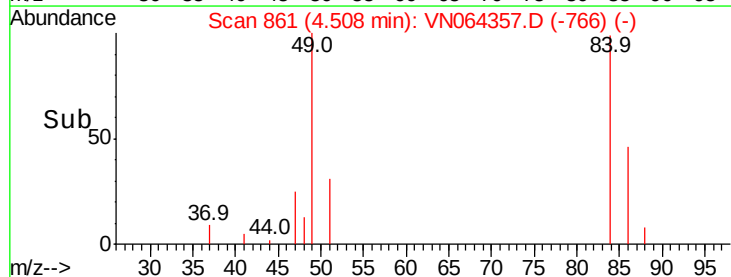
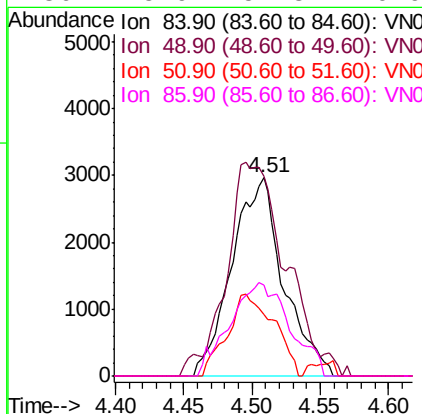
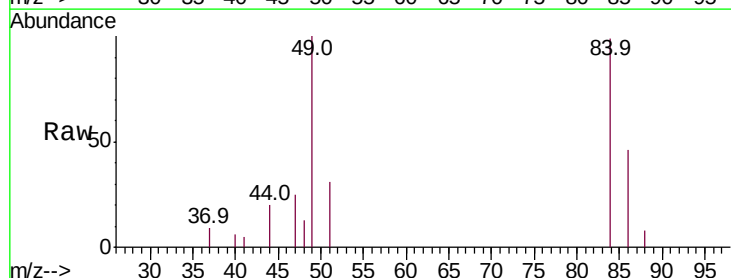
Instrument :
MSVOA_N
ClientSampled :
VNJ-225

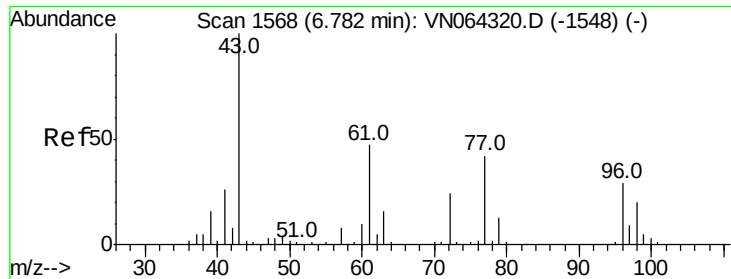
Tot Ion: 43 Resp: 2701
Ion Ratio Lower Upper
43 100
74 20.0 16.7 25.1



#20
Methylene Chloride
Concen: 2.916 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.01 min
Lab File: VN064357.D
Acq: 28 Oct 2020 17:08

Tgt Ion: 84 Resp: 7847
Ion Ratio Lower Upper
84 100
49 95.3 103.6 155.4#
51 30.8 31.8 47.8#
86 45.9 51.3 76.9#





#25

2-Butanone

Concen: 0.297 ug/l

RT: 6.78 min Scan# 1568

Delta R.T. -0.00 min

Lab File: VN064357.D

Acq: 28 Oct 2020 17:08

Instrument :

MSVOA_N

ClientSampled :

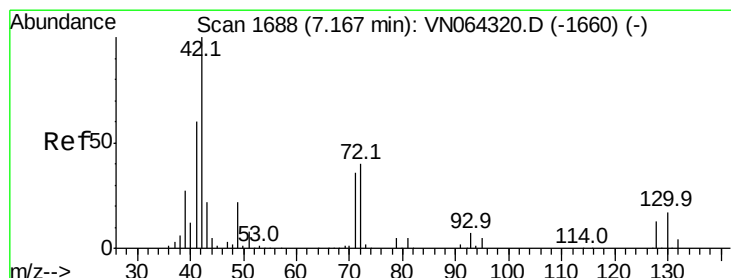
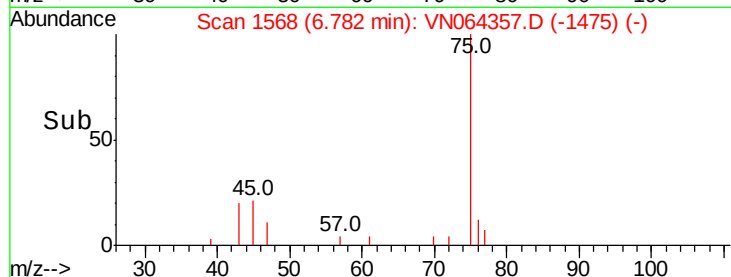
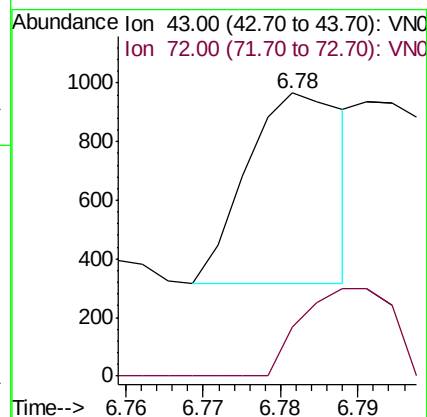
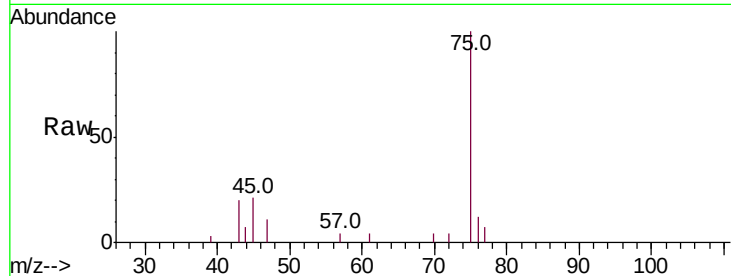
VNJ-225

Tot Ion: 43 Resp: 566

Ion Ratio Lower Upper

43 100

72 26.0 18.8 28.2



#29

Tetrahydrofuran

Concen: 0.513 ug/l

RT: 7.16 min Scan# 1687

Delta R.T. -0.00 min

Lab File: VN064357.D

Acq: 28 Oct 2020 17:08

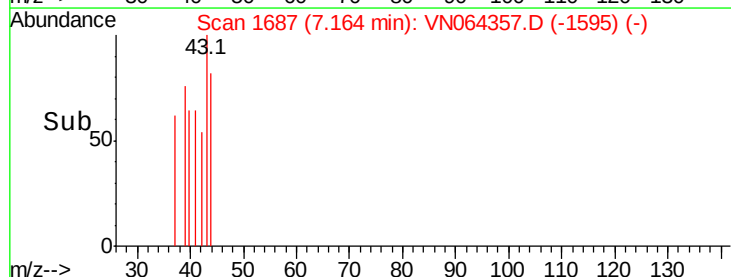
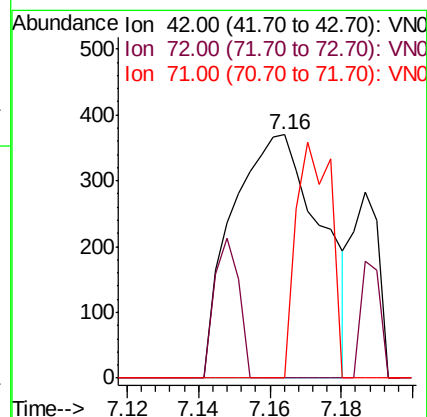
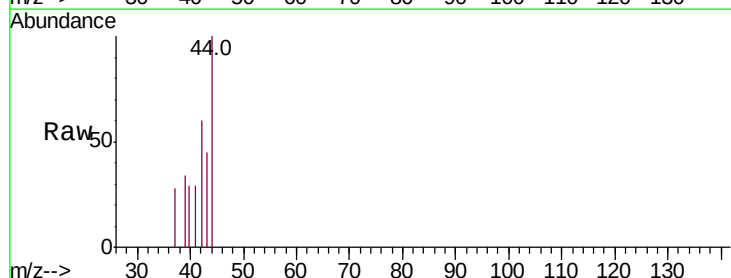
Tgt Ion: 42 Resp: 635

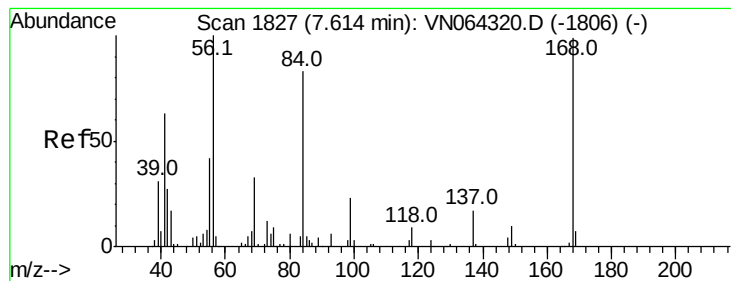
Ion Ratio Lower Upper

42 100

72 0.0 31.6 47.4#

71 37.8 29.4 44.0





#31

Cvclohexane

Concen: 1.162 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN064357.D

Acq: 28 Oct 2020 17:08

Instrument :

MSVOA_N

ClientSampleId :

VNJ-225

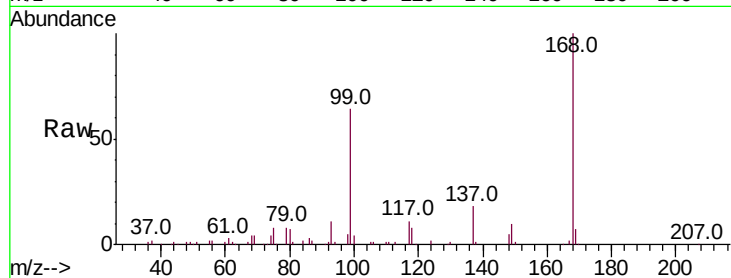
Tot Ion: 56 Resp: 5118

Ion Ratio Lower Upper

56 100

69 176.0 25.8 38.8#

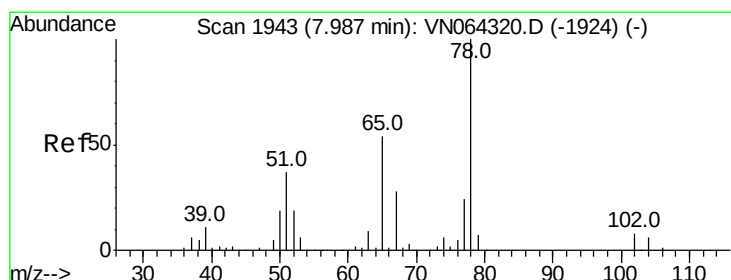
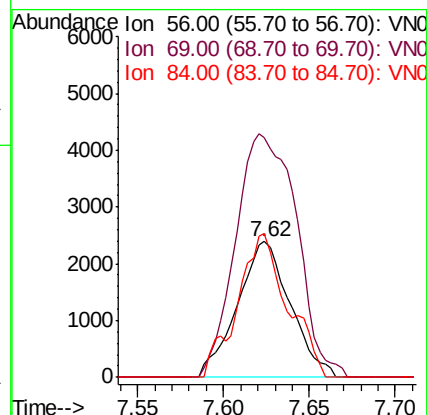
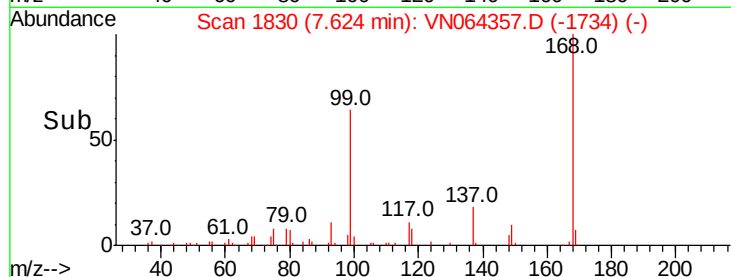
84 105.7 66.3 99.5#



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: 49.066 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN064357.D

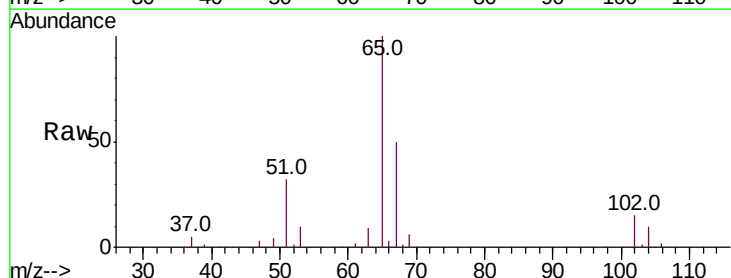
Acq: 28 Oct 2020 17:08

Tgt Ion: 65 Resp: 186165

Ion Ratio Lower Upper

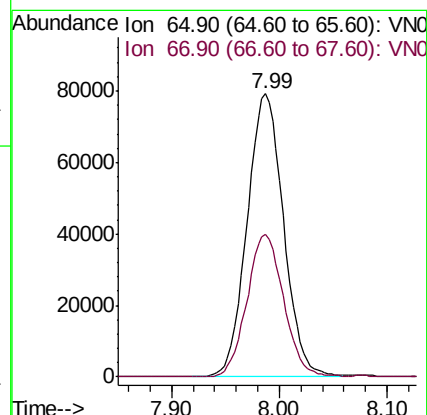
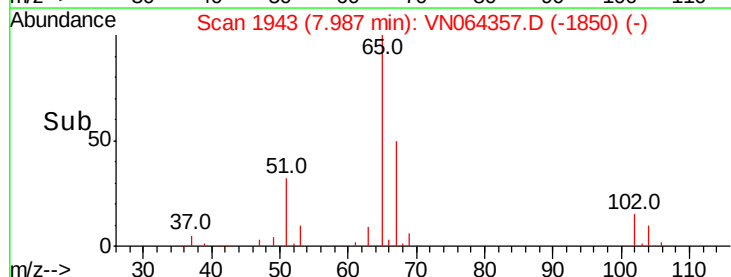
65 100

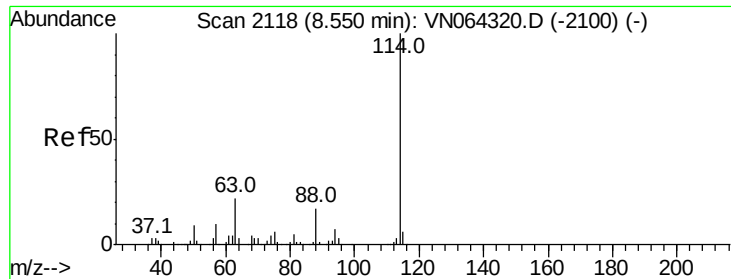
67 50.6 0.0 99.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

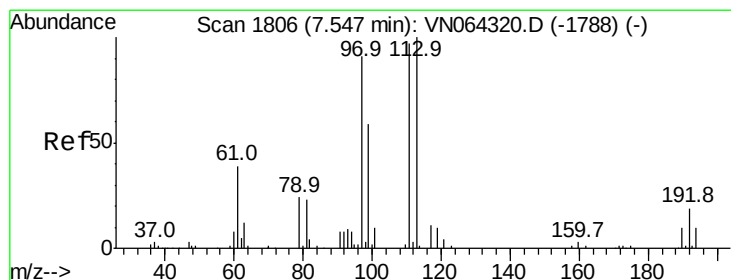
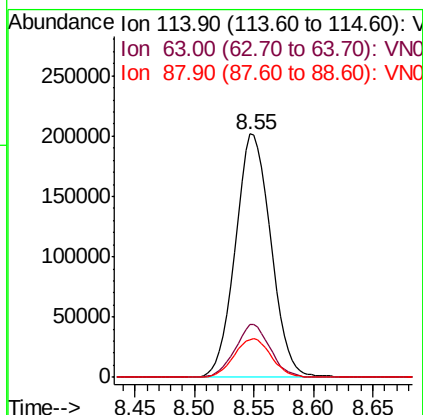
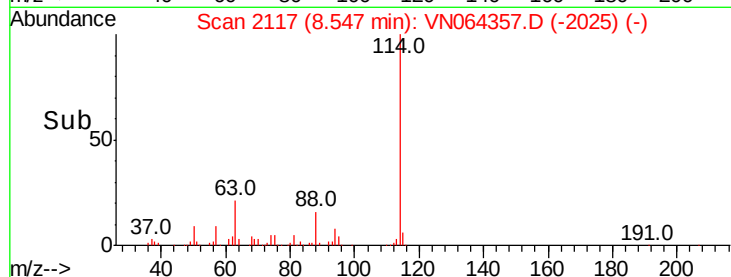
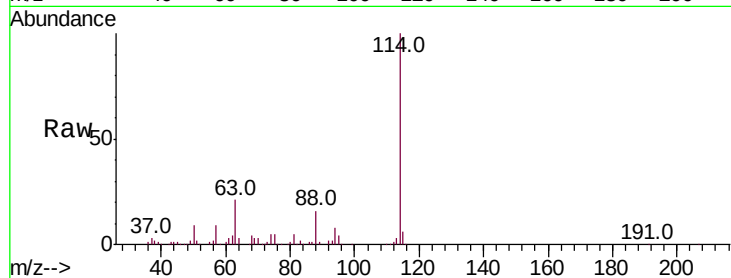




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2117
Delta R.T. -0.00 min
Lab File: VN064357.D
Acq: 28 Oct 2020 17:08

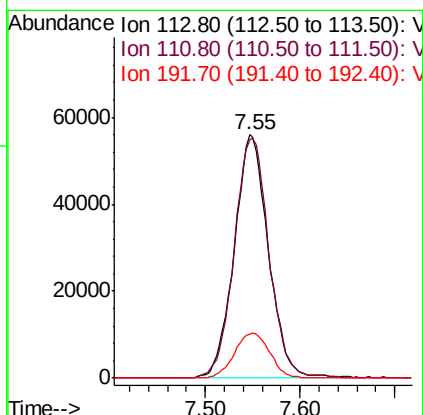
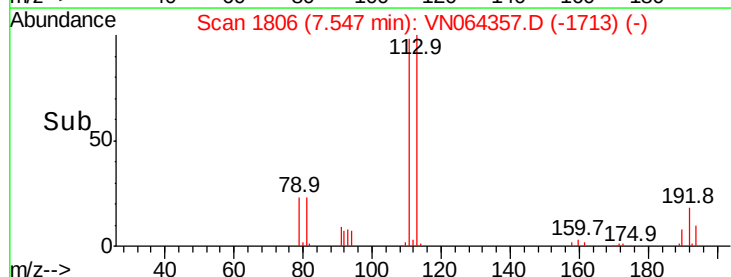
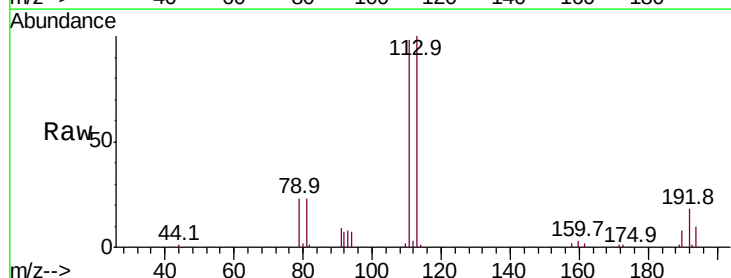
Instrument :
MSVOA_N
ClientSampled :
VNJ-225

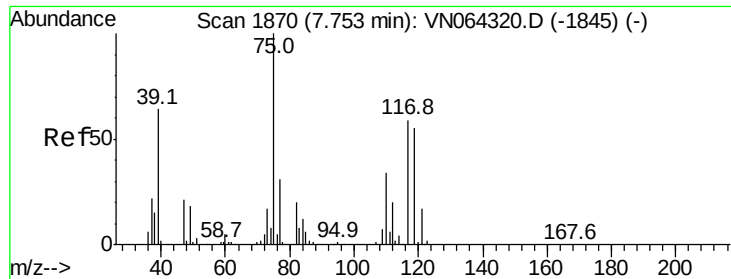
Tot Ion:114 Resp: 417733
Ion Ratio Lower Upper
114 100
63 21.5 0.0 44.6
88 15.6 0.0 33.4



#35
Dibromofluoromethane
Concen: 50.345 ug/l
RT: 7.55 min Scan# 1806
Delta R.T. -0.00 min
Lab File: VN064357.D
Acq: 28 Oct 2020 17:08

Tgt Ion:113 Resp: 140250
Ion Ratio Lower Upper
113 100
111 99.8 81.5 122.3
192 19.2 15.0 22.4





#36

1,1-Dichloropropene

Concen: 4.641 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN064357.D

Acq: 28 Oct 2020 17:08

Instrument :

MSVOA_N

ClientSampleId :

VNJ-225

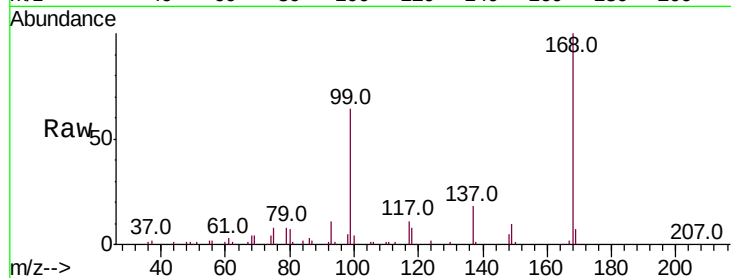
Tot Ion: 75 Resp: 19567

Ion Ratio Lower Upper

75 100

110 6.0 16.8 50.3#

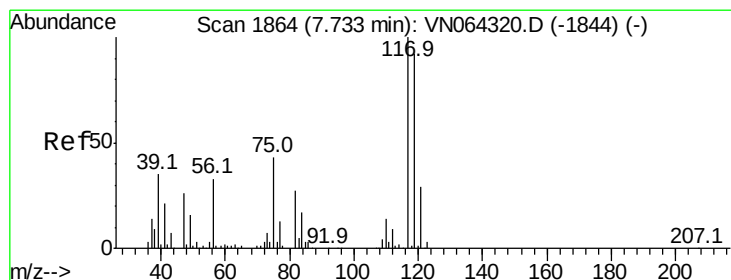
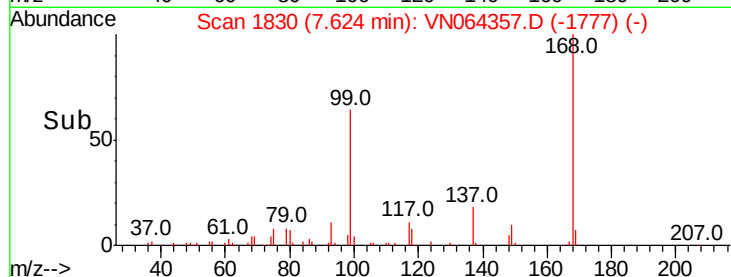
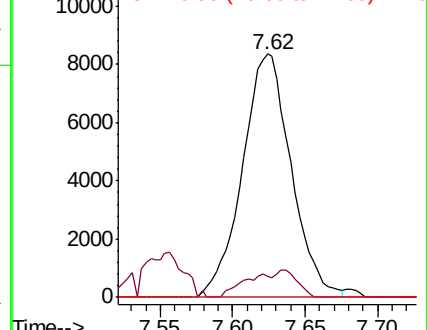
77 0.0 24.2 36.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0



#38

Carbon Tetrachloride

Concen: 5.274 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN064357.D

Acq: 28 Oct 2020 17:08

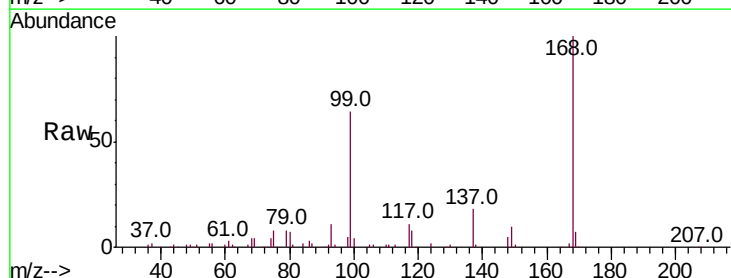
Tgt Ion: 117 Resp: 25779

Ion Ratio Lower Upper

117 100

119 4.2 73.7 110.5#

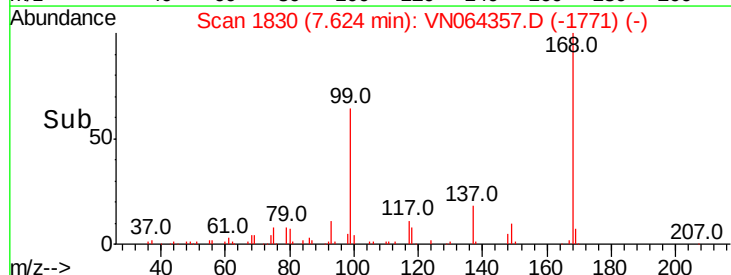
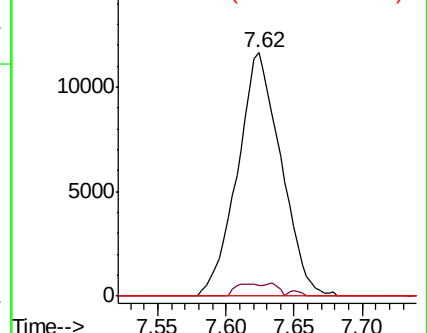
121 0.0 22.8 34.2#

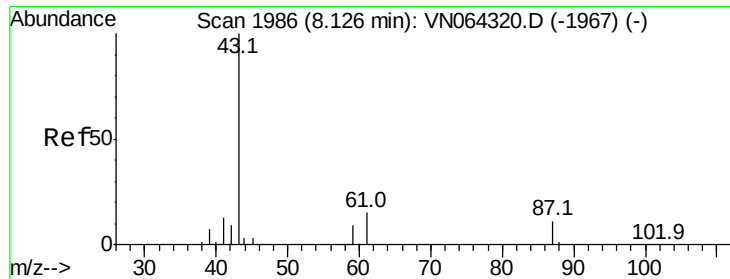


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 9.651 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN064357.D

Acq: 28 Oct 2020 17:08

Instrument :

MSVOA_N

ClientSampleId :

VNJ-225

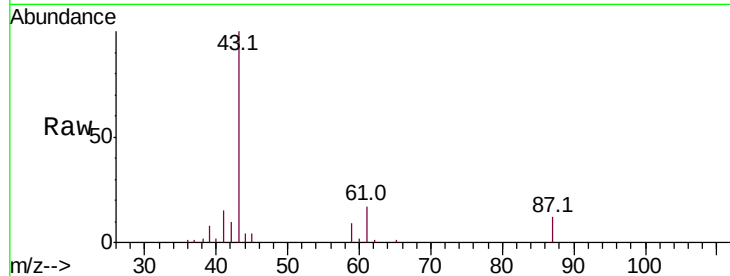
Tot Ion: 43 Resp: 70253

Ion Ratio Lower Upper

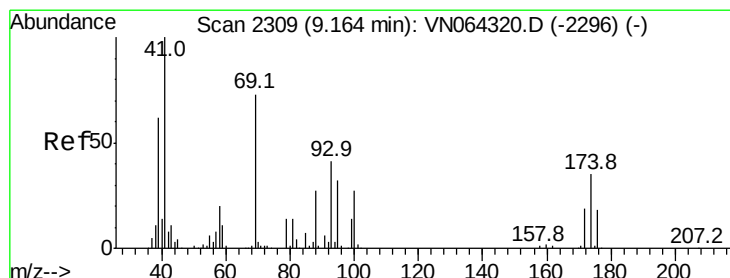
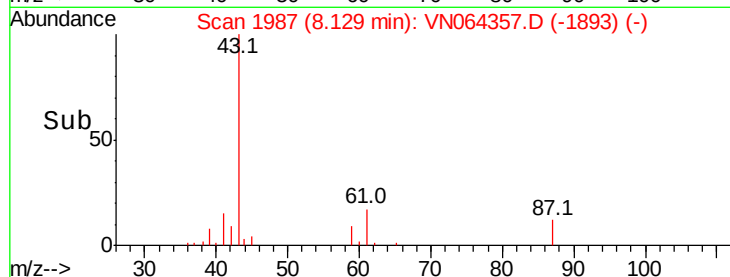
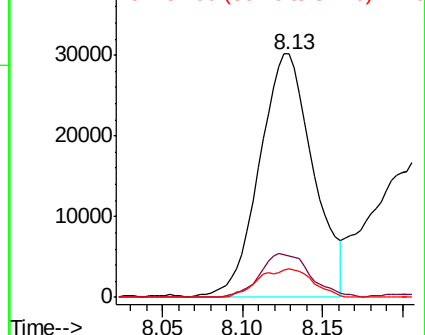
43 100

61 16.7 19.1 28.7#

87 11.8 9.3 13.9



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



#48

Methyl methacrylate

Concen: 0.701 ug/l

RT: 9.14 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN064357.D

Acq: 28 Oct 2020 17:08

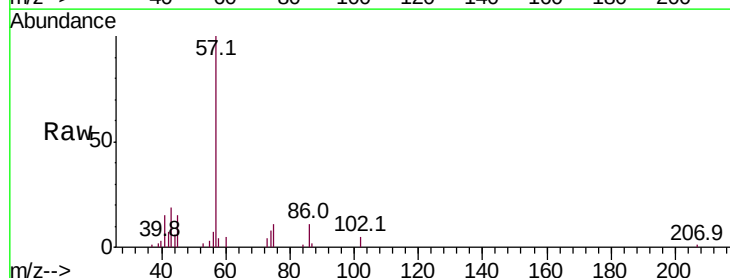
Tgt Ion: 41 Resp: 2632

Ion Ratio Lower Upper

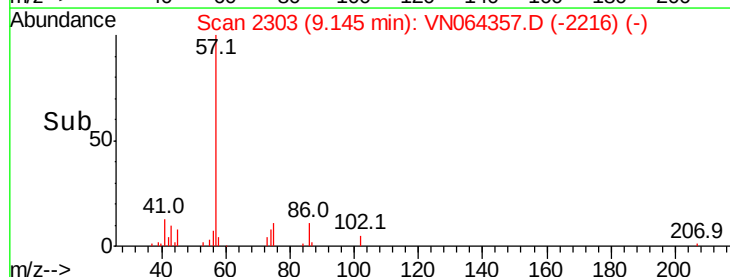
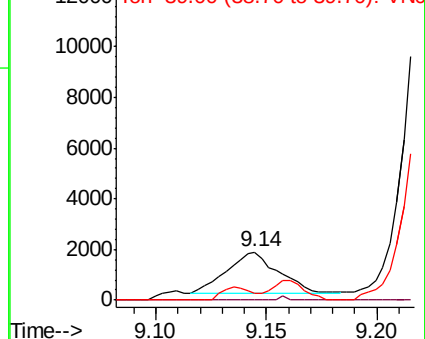
41 100

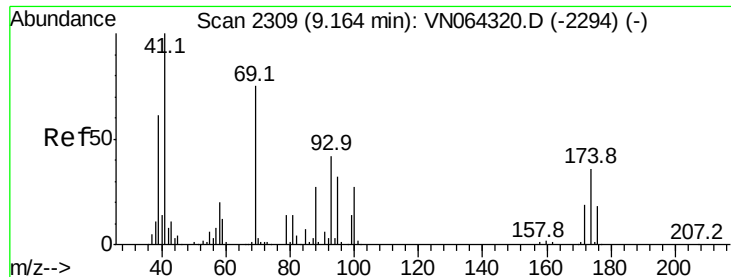
69 1.3 59.1 88.7#

39 0.0 51.3 76.9#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO





#49

1,4-Dioxane

Concen: 0.560 ug/l

RT: 9.24 min Scan# 2333

Delta R.T. 0.08 min

Lab File: VN064357.D

Acq: 28 Oct 2020 17:08

Instrument :

MSVOA_N

ClientSampleId :

VNJ-225

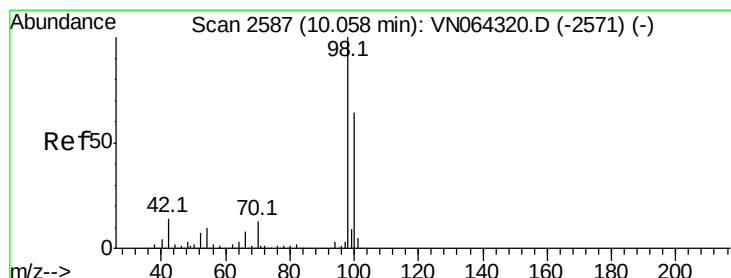
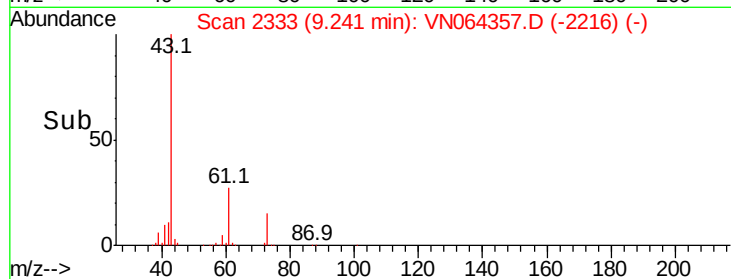
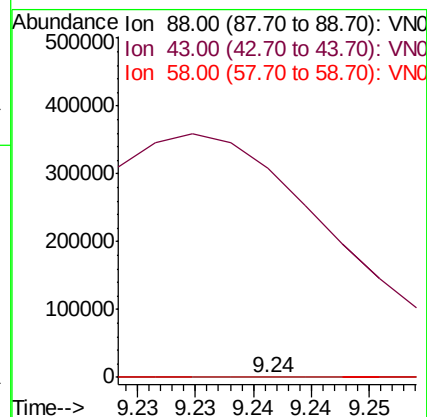
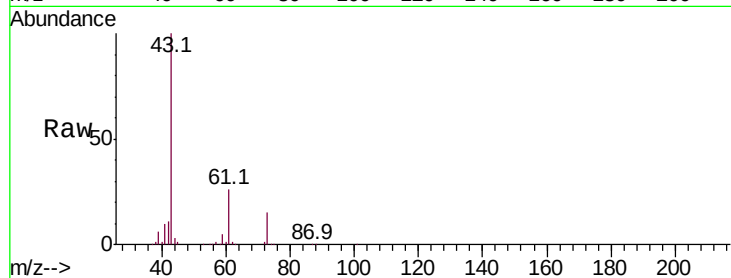
Tot Ion: 88 Resp: 31

Ion Ratio Lower Upper

88 100

43 2105667.7 31.8 47.8#

58 8364.5 60.3 90.5#



#50

Toluene-d8

Concen: 49.669 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN064357.D

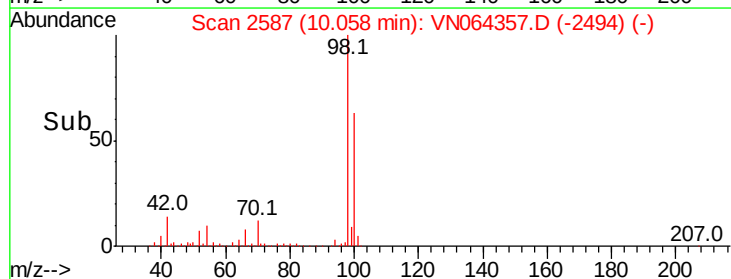
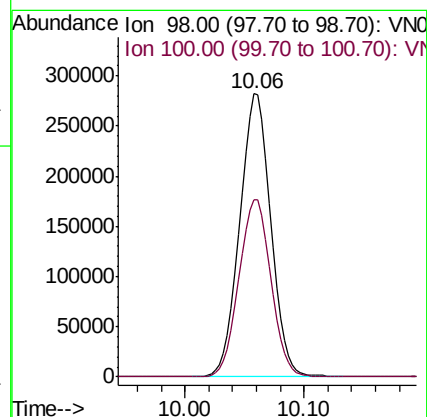
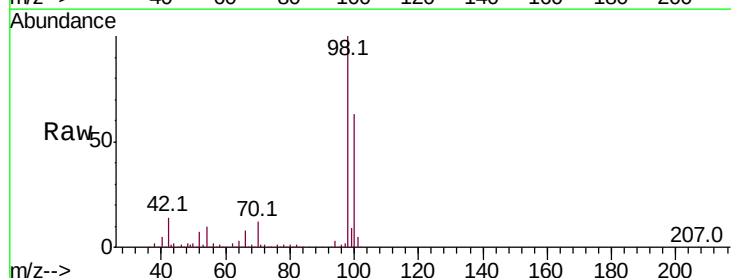
Acq: 28 Oct 2020 17:08

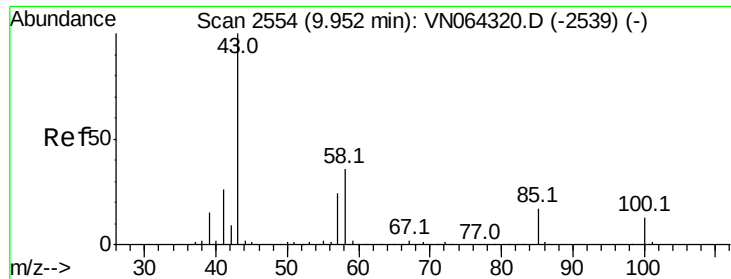
Tgt Ion: 98 Resp: 511801

Ion Ratio Lower Upper

98 100

100 64.3 50.9 76.3





#51

4-Methyl-2-Pentanone

Concen: 1.548 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN064357.D

Acq: 28 Oct 2020 17:08

Instrument :

MSVOA_N

ClientSampleId :

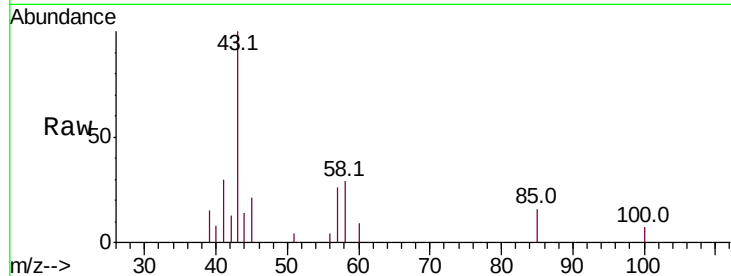
VNJ-225

Tot Ion: 43 Resp: 6551

Ion Ratio Lower Upper

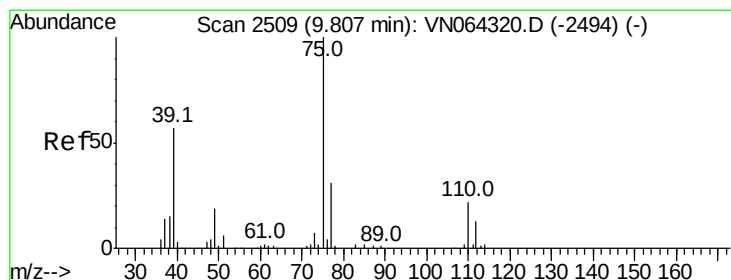
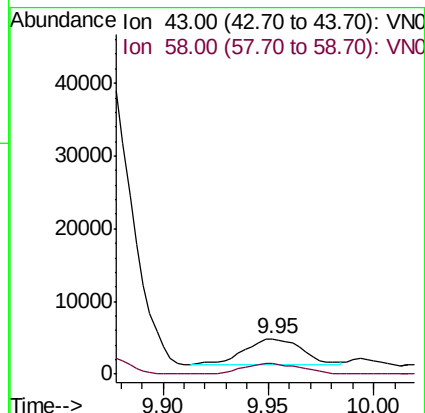
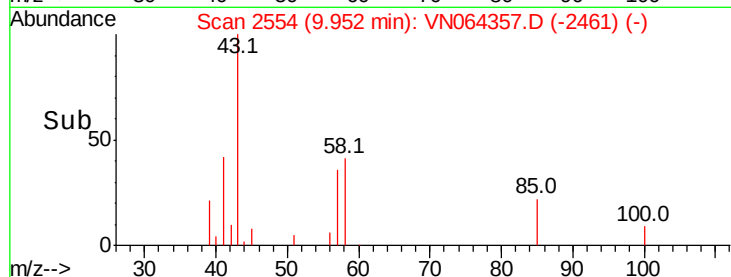
43 100

58 42.7 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VN064320.D (-2539) (-)

Ion 58.00 (57.70 to 58.70): VN064320.D (-2539) (-)



#54

cis-1,3-Dichloropropene

Concen: 5.764 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN064357.D

Acq: 28 Oct 2020 17:08

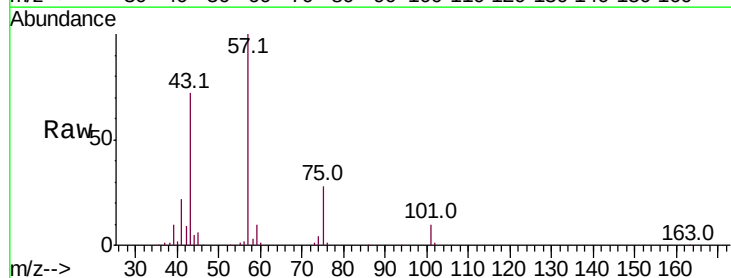
Tgt Ion: 75 Resp: 30566

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.4#

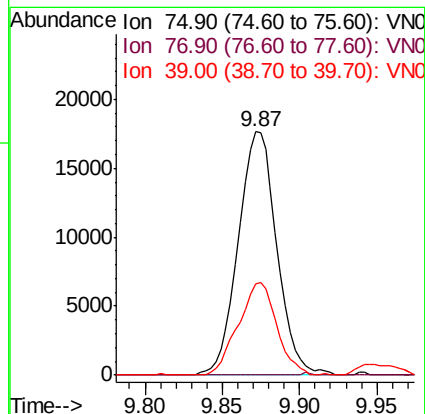
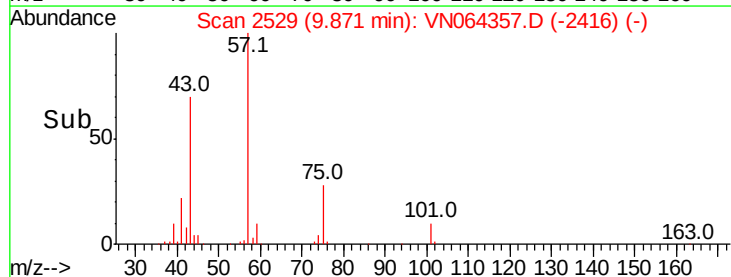
39 37.4 45.5 68.3#

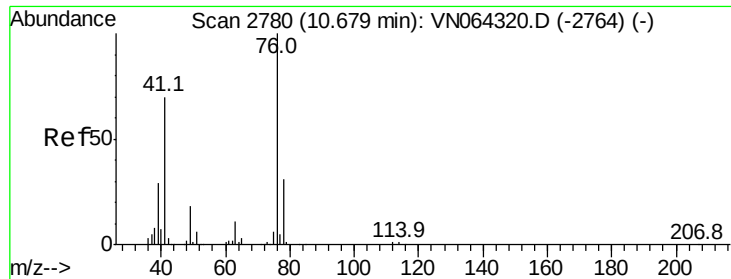


Abundance Ion 74.90 (74.60 to 75.60): VN064320.D (-2494) (-)

Ion 76.90 (76.60 to 77.60): VN064320.D (-2494) (-)

Ion 39.00 (38.70 to 39.70): VN064320.D (-2494) (-)





#57

1,3-Dichloropropane

Concen: 0.550 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN064357.D

Acq: 28 Oct 2020 17:08

Instrument :

MSVOA_N

ClientSampleId :

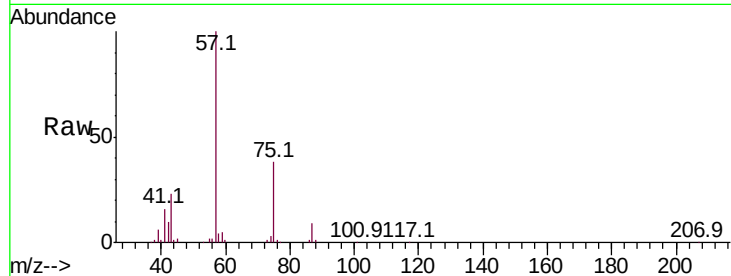
VNJ-225

Tot Ion: 76 Resp: 2744

Ion Ratio Lower Upper

76 100

78 1.1 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO

10.74

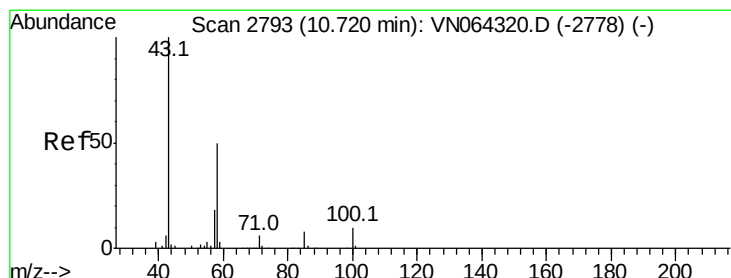
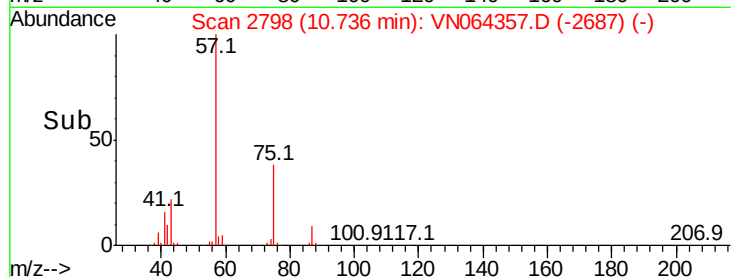
1500

1000

500

0

Time-->



#59

2-Hexanone

Concen: 14.568 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN064357.D

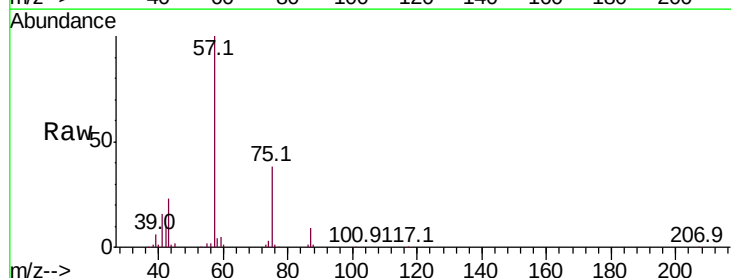
Acq: 28 Oct 2020 17:08

Tgt Ion: 43 Resp: 45402

Ion Ratio Lower Upper

43 100

58 17.2 25.0 75.0#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

10.74

50000

40000

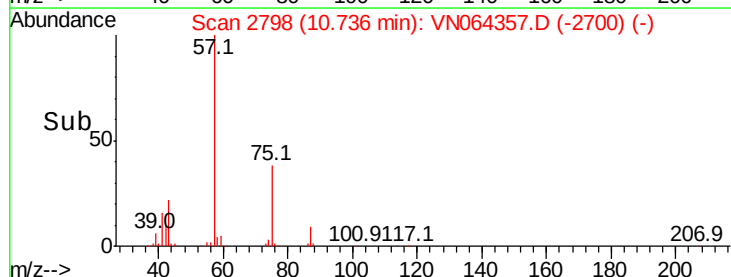
30000

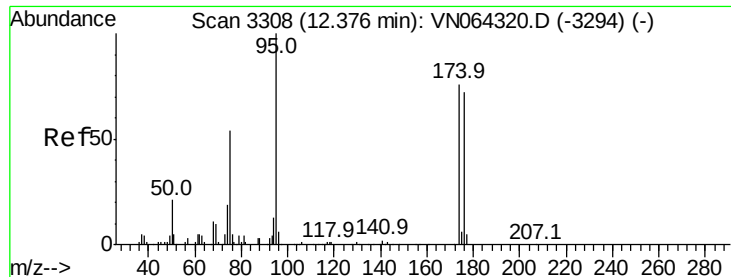
20000

10000

0

Time-->





#62

4-Bromofluorobenzene

Concen: 54.125 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN064357.D

Acq: 28 Oct 2020 17:08

Instrument :

MSVOA_N

ClientSampleId :

VNJ-225

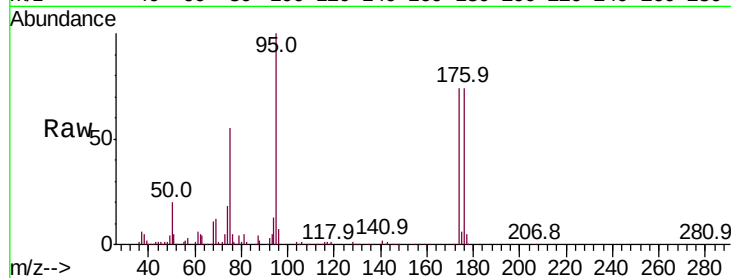
Tot Ion: 95 Resp: 217449

Ion Ratio Lower Upper

95 100

174 73.7 0.0 147.4

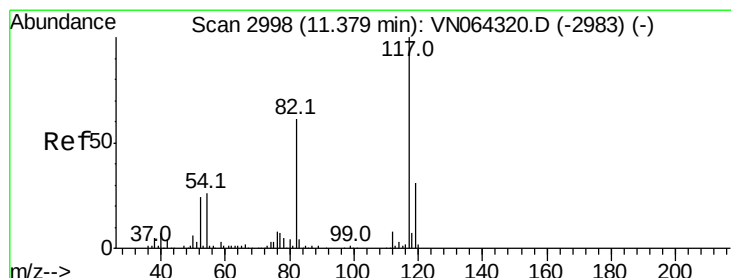
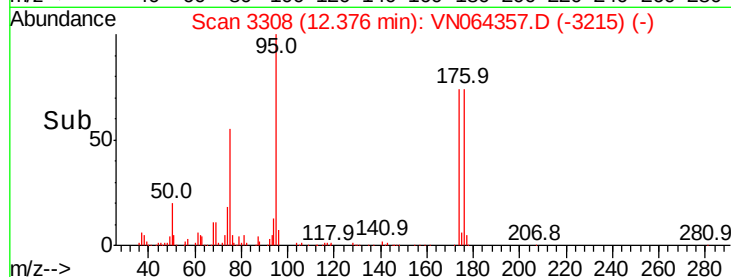
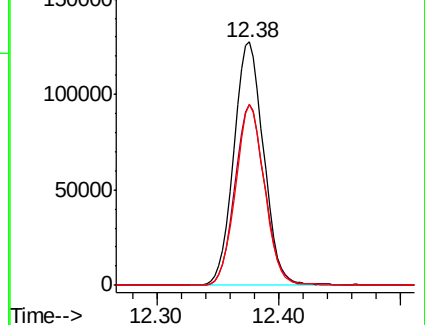
176 72.0 0.0 143.6



Abundance Ion 94.90 (94.60 to 95.60): VN064320.D (-3294) (-)

Ion 173.80 (173.50 to 174.50): VN064320.D (-3294) (-)

Ion 175.80 (175.50 to 176.50): VN064320.D (-3294) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN064357.D

Acq: 28 Oct 2020 17:08

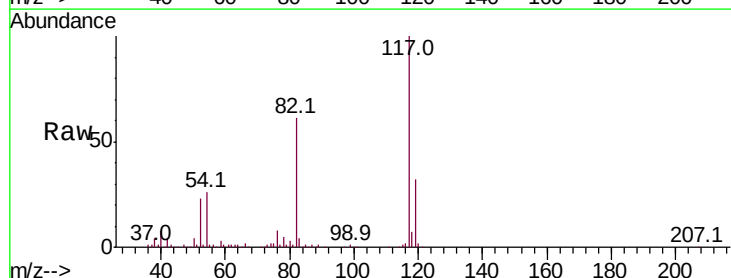
Tgt Ion: 117 Resp: 411782

Ion Ratio Lower Upper

117 100

82 60.6 48.8 73.2

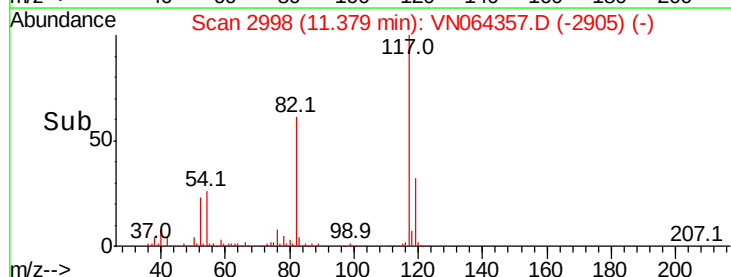
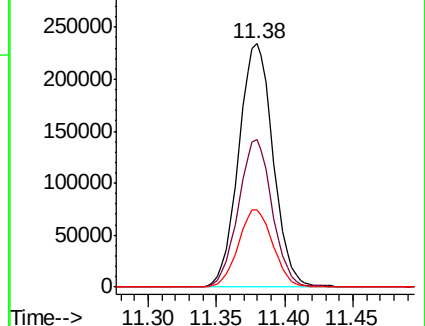
119 31.8 25.1 37.7

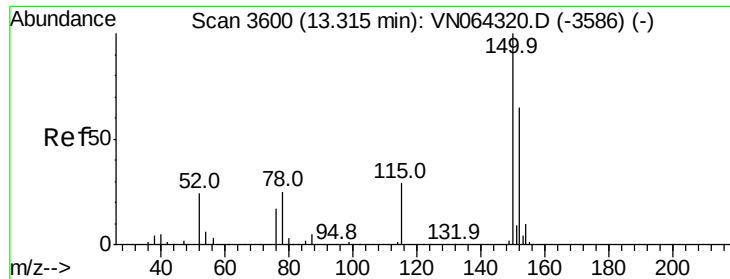


Abundance Ion 116.90 (116.60 to 117.60): VN064320.D (-2983) (-)

Ion 82.00 (81.70 to 82.70): VN064320.D (-2983) (-)

Ion 118.90 (118.60 to 119.60): VN064320.D (-2983) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064357.D

Acq: 28 Oct 2020 17:08

Instrument :

MSVOA_N

ClientSampled :

VNJ-225

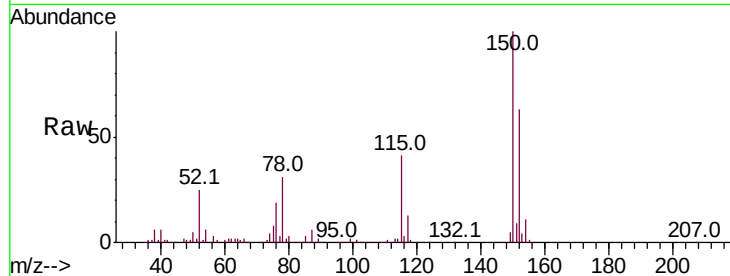
Tot Ion:152 Resp: 166278

Ion Ratio Lower Upper

152 100

115 65.4 31.5 94.5

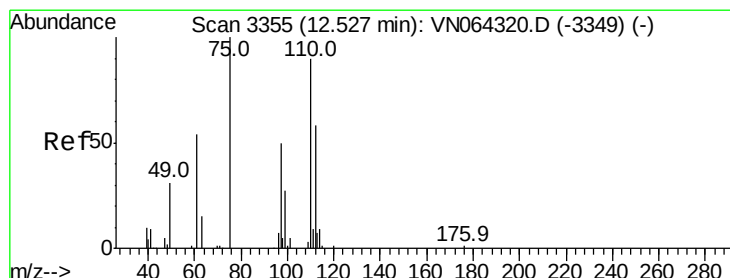
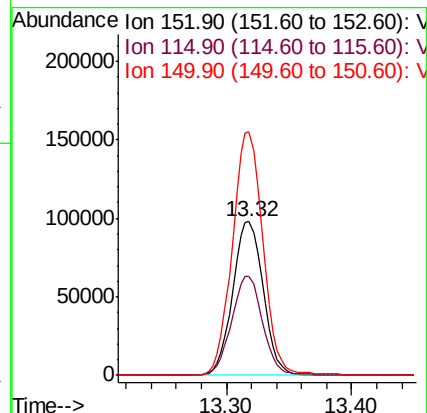
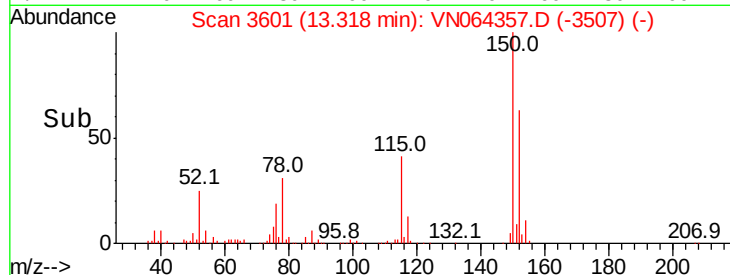
150 157.7 0.0 346.2



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: 29.534 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064357.D

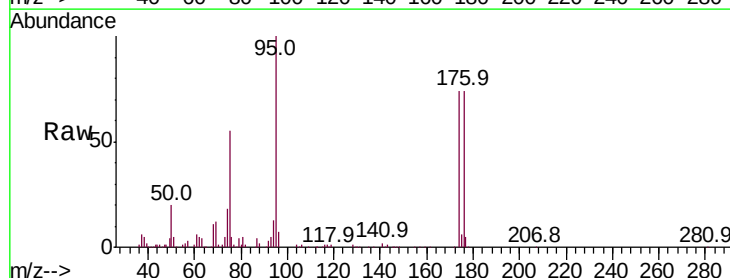
Acq: 28 Oct 2020 17:08

Tgt Ion: 75 Resp: 117603

Ion Ratio Lower Upper

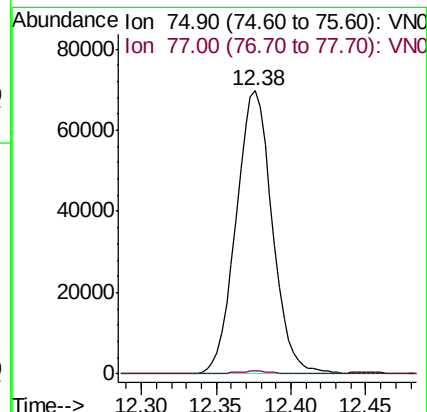
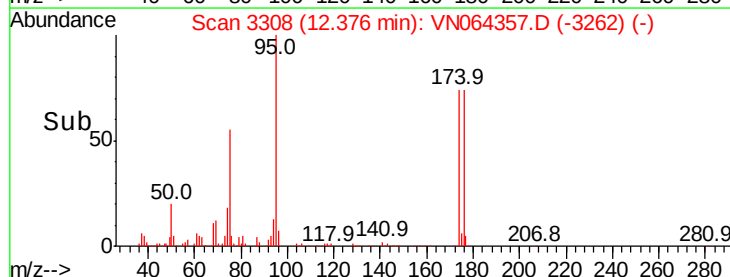
75 100

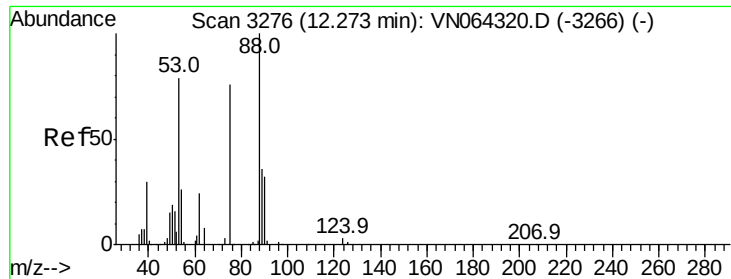
77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

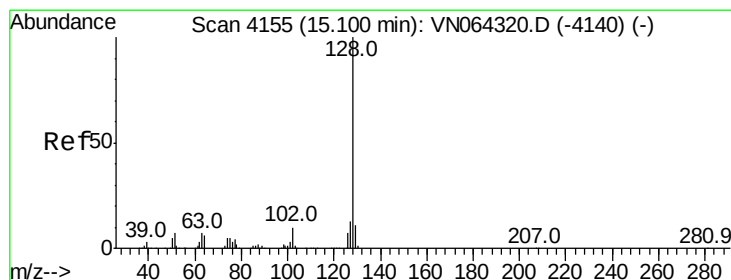
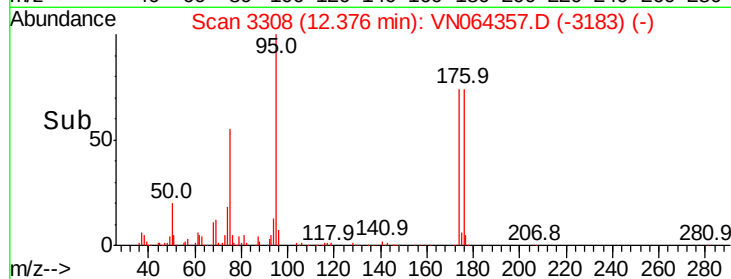
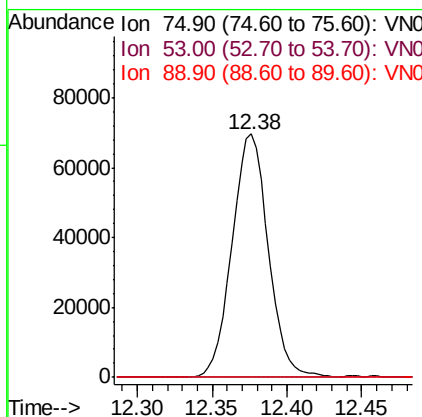
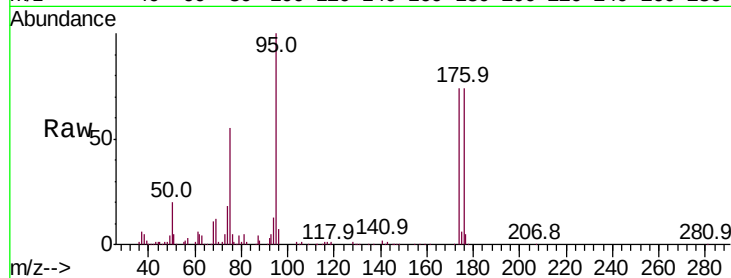




#81
trans-1,4-Dichloro-2-butene
Concen: 85.074 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.10 min
Lab File: VN064357.D
Acq: 28 Oct 2020 17:08

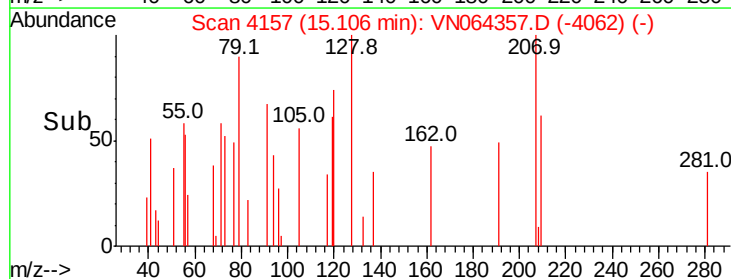
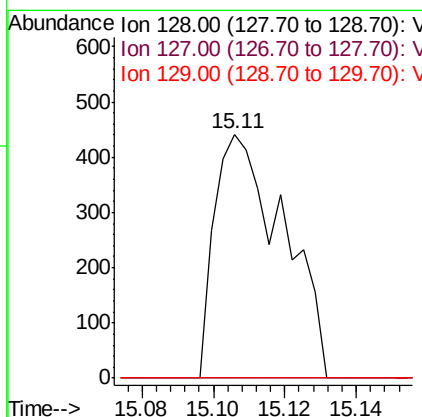
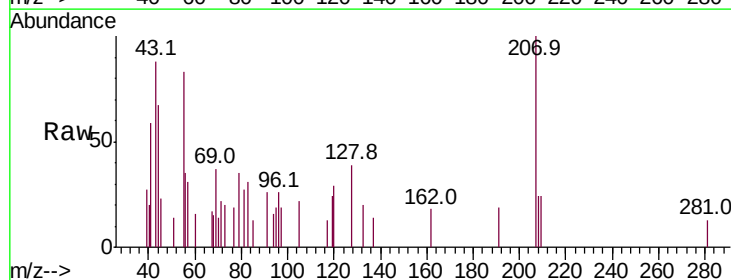
Instrument :
MSVOA_N
ClientSampleId :
VNJ-225

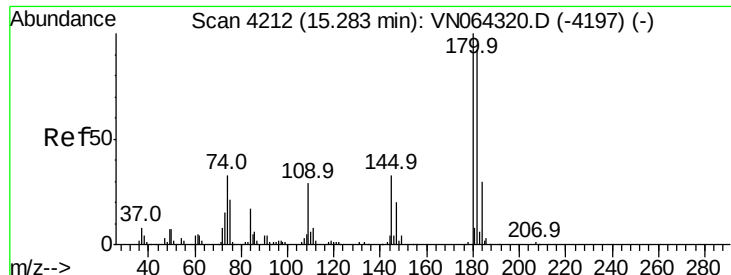
Tot Ion: 75 Resp: 117603
Ion Ratio Lower Upper
75 100
53 0.1 81.8 122.8#
89 0.0 39.9 59.9#



#95
Naphthalene
Concen: 2.452 ug/l
RT: 15.11 min Scan# 4157
Delta R.T. 0.01 min
Lab File: VN064357.D
Acq: 28 Oct 2020 17:08

Tgt Ion: 128 Resp: 586
Ion Ratio Lower Upper
128 100
127 0.0 10.4 15.6#
129 0.0 8.6 13.0#





#96

1,2,3-Trichlorobenzene

Concen: 2.202 ug/l

RT: 15.31 min Scan# 4222

Delta R.T. 0.03 min

Lab File: VN064357.D

Acq: 28 Oct 2020 17:08

Instrument :

MSVOA_N

ClientSampleId :

VNJ-225

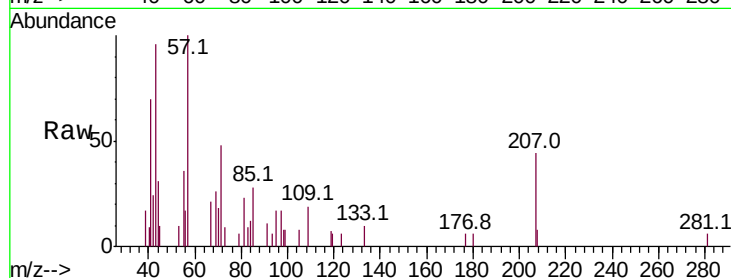
Tot Ion:180 Resp: 63

Ion Ratio Lower Upper

180 100

182 0.0 46.1 138.3#

145 0.0 16.2 48.5#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

