

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091620\
 Data File : VN063404.D
 Acq On : 17 Sep 2020 7:51
 Operator : JC/MD
 Sample : L4019-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 54 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VNJ-220

Quant Time: Sep 17 08:11:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	228832	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	436260	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	430506	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	186669	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	195745	50.25	ug/l	0.00
Spiked Amount			Recovery	=	100.50%	
35) Dibromofluoromethane	7.55	113	140618	46.56	ug/l	0.00
Spiked Amount			Recovery	=	93.12%	
50) Toluene-d8	10.06	98	566134	49.85	ug/l	0.00
Spiked Amount			Recovery	=	99.70%	
62) 4-Bromofluorobenzene	12.38	95	224223	53.86	ug/l	0.00
Spiked Amount			Recovery	=	107.72%	

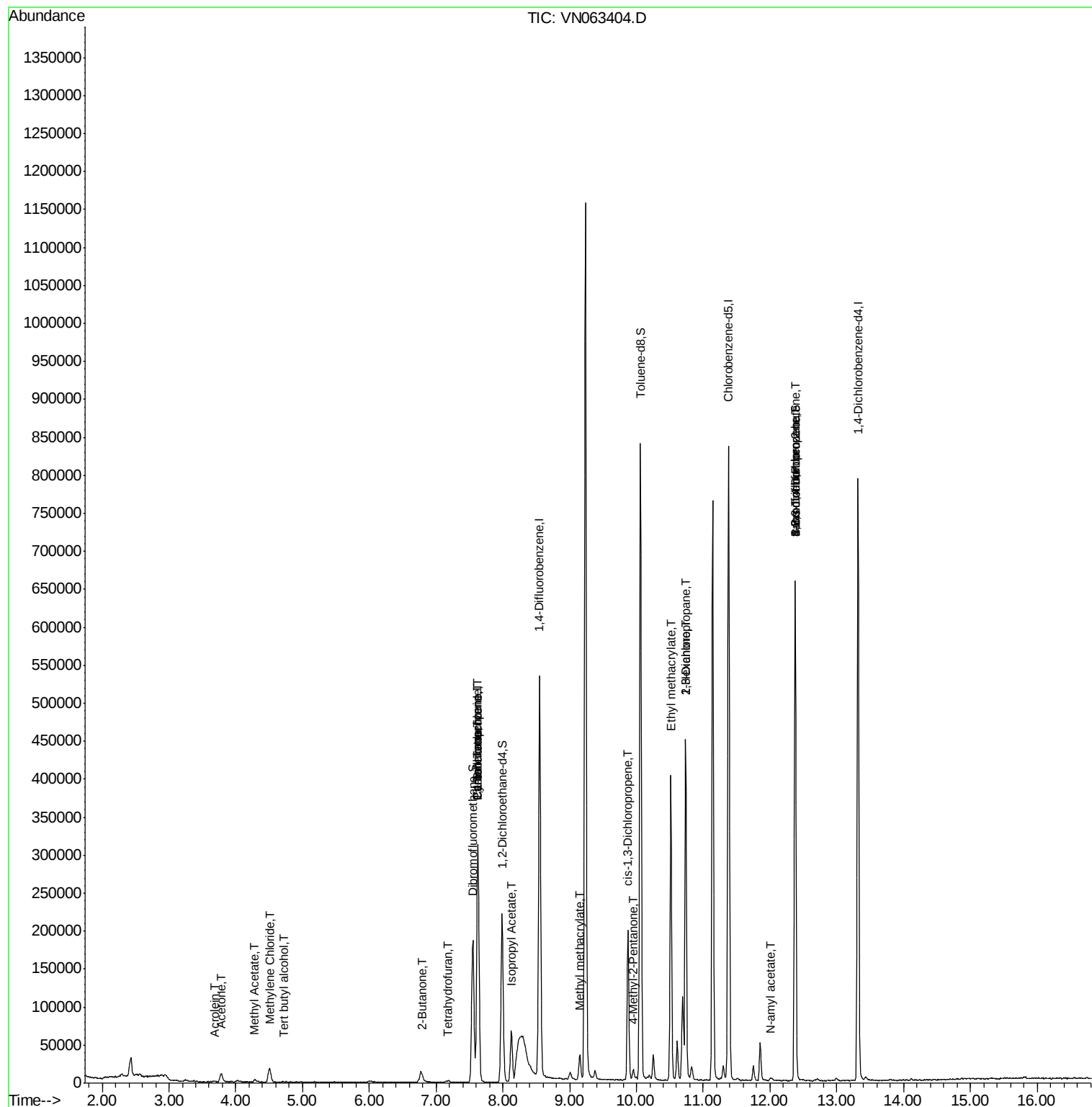
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.71	59	177	0.328	ug/l #	72
13) Acrolein	3.69	56	129	0.645	ug/l #	74
16) Acetone	3.78	43	19281	15.401	ug/l	97
18) Methyl Acetate	4.28	43	4465	1.405	ug/l #	67
20) Methylene Chloride	4.51	84	12273	3.869	ug/l	96
25) 2-Butanone	6.80	43	2636	1.369	ug/l #	86
29) Tetrahydrofuran	7.18	42	1946	1.480	ug/l #	42
31) Cyclohexane	7.62	56	6984	1.298	ug/l #	50
36) 1,1-Dichloropropene	7.63	75	22117	4.759	ug/l #	51
38) Carbon Tetrachloride	7.62	117	25871	5.453	ug/l #	17
43) Isopropyl Acetate	8.13	43	80059	9.815	ug/l	99
48) Methyl methacrylate	9.15	41	3721	0.929	ug/l #	15
51) 4-Methyl-2-Pentanone	9.95	43	11392	2.495	ug/l #	87
54) cis-1,3-Dichloropropene	9.87	75	32291	5.558	ug/l #	62
56) Ethyl methacrylate	10.51	69	1287	0.260	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	4275	0.748	ug/l #	42
59) 2-Hexanone	10.74	43	70401	21.281	ug/l #	54
71) Bromoform	12.37	173	943	0.378	ug/l #	1
74) N-amyl acetate	12.01	43	3768	0.532	ug/l #	48
76) 1,2,3-Trichloropropane	12.38	75	124186	26.878	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	124186	73.690	ug/l #	7

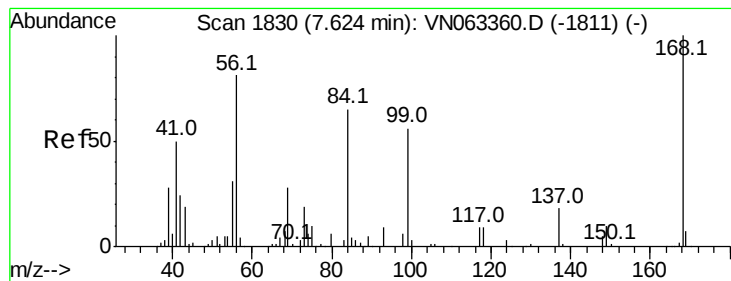
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 17 08:11:13 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 16 13:05:20 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: VN063404.D

Acq: 17 Sep 2020 7:51

Instrument :

MSVOA_N

ClientSampled :

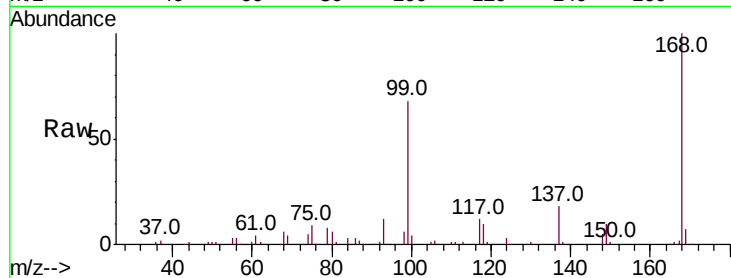
VNJ-220

Tot Ion:168 Resp: 228832

Ion Ratio Lower Upper

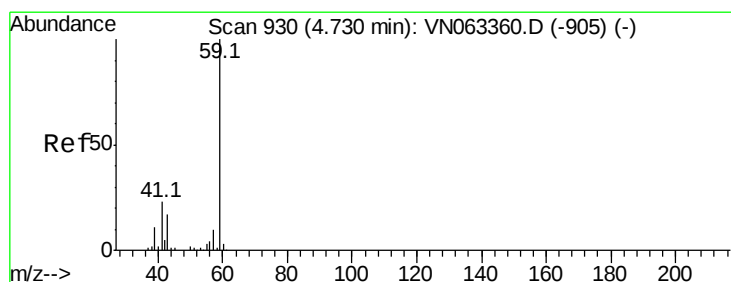
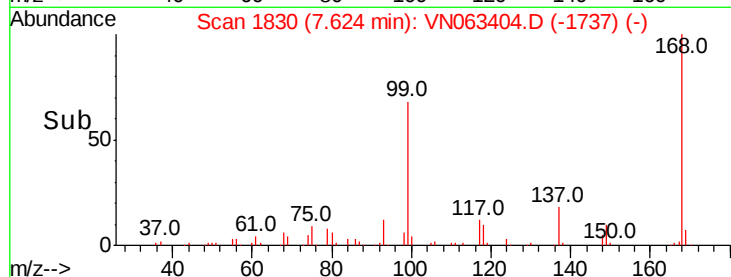
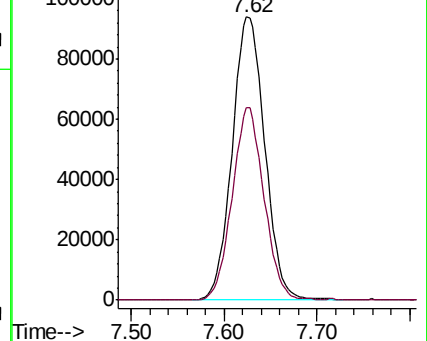
168 100

99 68.2 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#11

Tert butyl alcohol

Concen: 0.328 ug/l

RT: 4.71 min Scan# 925

Delta R.T. -0.02 min

Lab File: VN063404.D

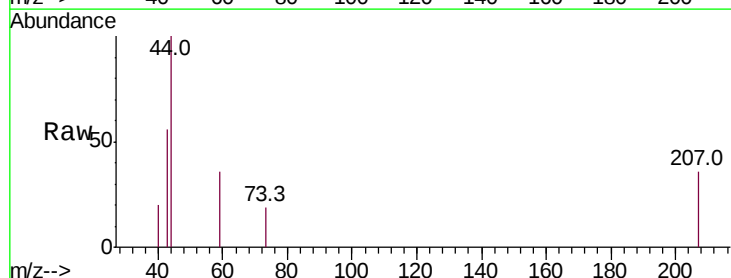
Acq: 17 Sep 2020 7:51

Tgt Ion: 59 Resp: 177

Ion Ratio Lower Upper

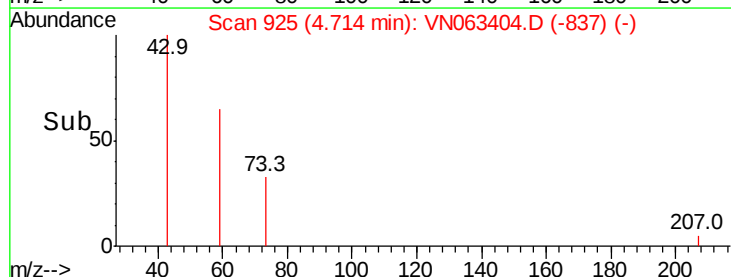
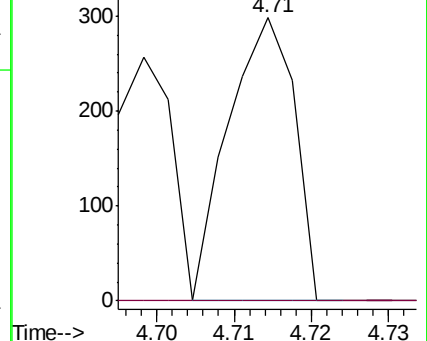
59 100

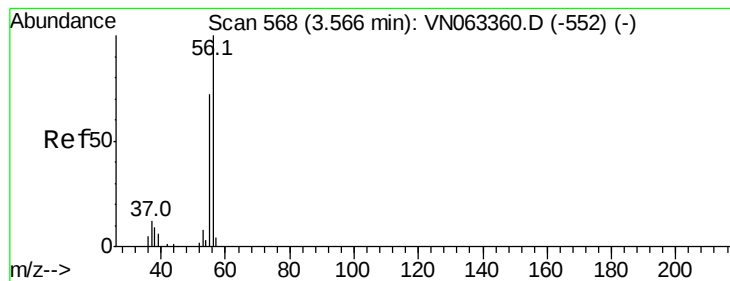
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#13

Acrolein

Concen: 0.645 ug/l

RT: 3.69 min Scan# 607

Delta R.T. 0.13 min

Lab File: VN063404.D

Acq: 17 Sep 2020 7:51

Instrument :

MSVOA_N

ClientSampleId :

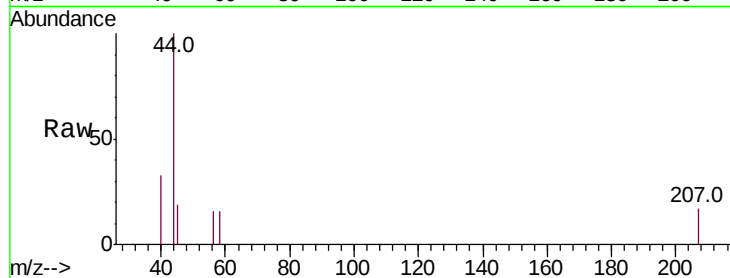
VNJ-220

Tot Ion: 56 Resp: 129

Ion Ratio Lower Upper

56 100

55 51.2 58.2 87.2#



Abundance Ion 56.00 (55.70 to 56.70): VN063360.D (-552) (-)

Ion 55.00 (54.70 to 55.70): VN063360.D (-552) (-)

3.69

150

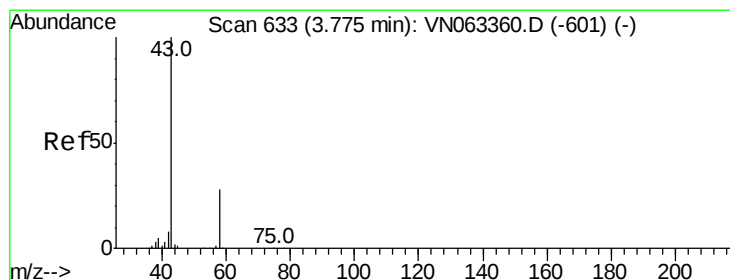
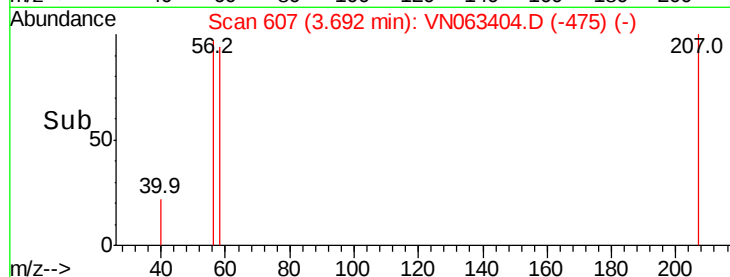
100

50

0

3.67 3.68 3.69 3.70

Time-->



#16

Acetone

Concen: 15.401 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063404.D

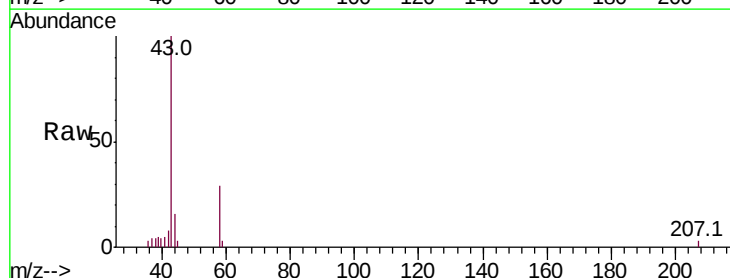
Acq: 17 Sep 2020 7:51

Tgt Ion: 43 Resp: 19281

Ion Ratio Lower Upper

43 100

58 29.5 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-601) (-)

Ion 58.00 (57.70 to 58.70): VN063360.D (-601) (-)

3.78

8000

6000

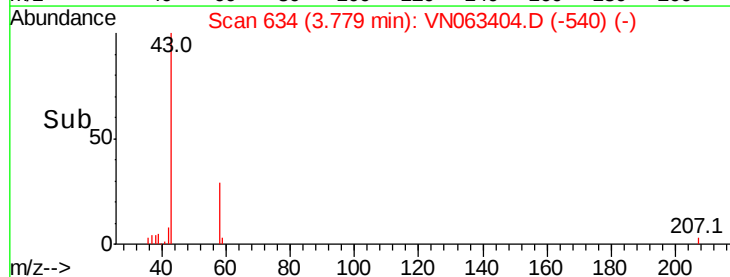
4000

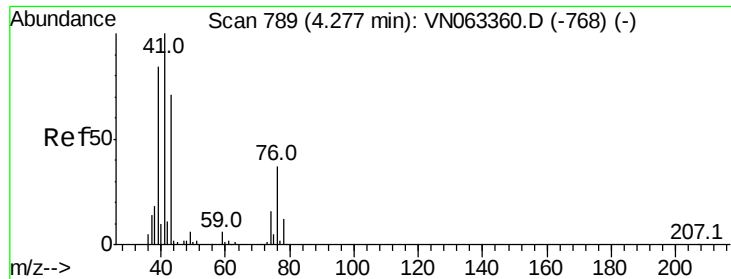
2000

0

3.70 3.75 3.80 3.85

Time-->

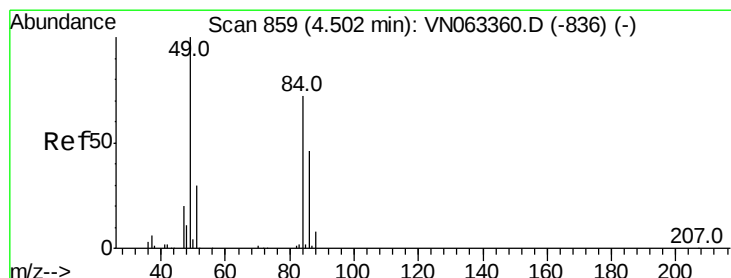
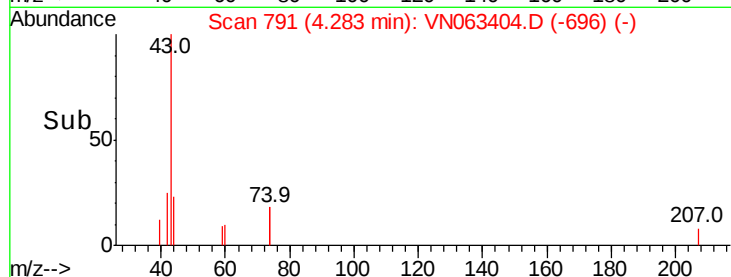
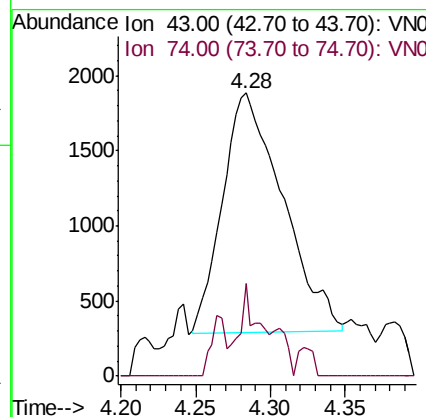
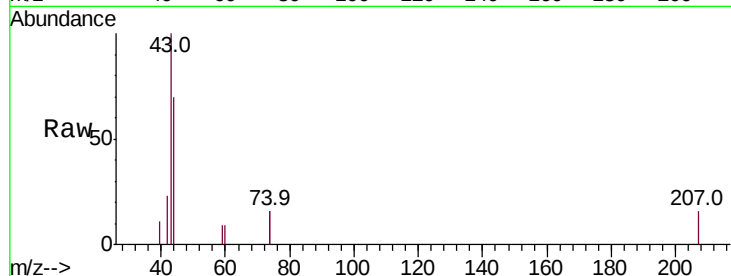




#18
Methvl Acetate
Concen: 1.405 ug/l
RT: 4.28 min Scan# 791
Delta R.T. 0.01 min
Lab File: VN063404.D
Acq: 17 Sep 2020 7:51

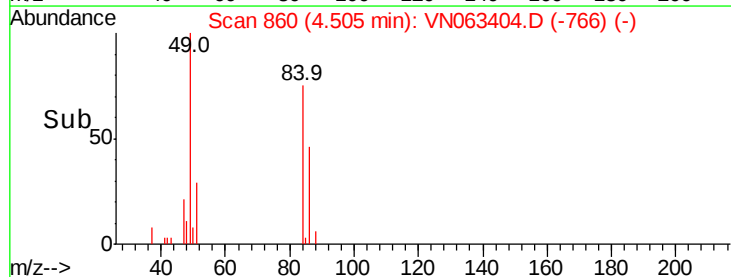
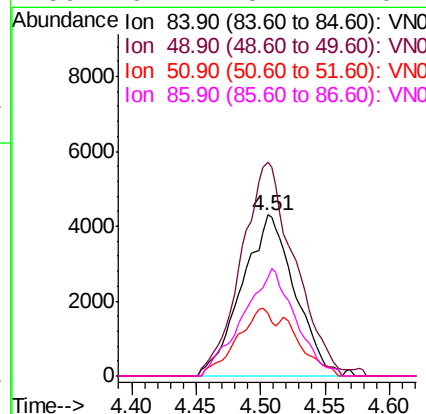
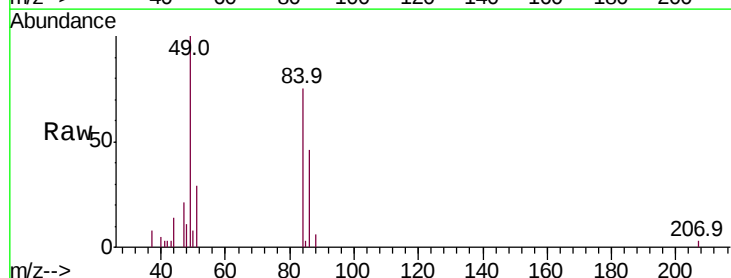
Instrument :
MSVOA_N
ClientSampleId :
VNJ-220

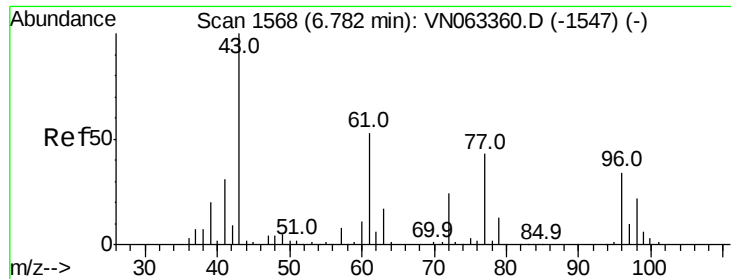
Tot Ion: 43 Resp: 4465
Ion Ratio Lower Upper
43 100
74 6.1 17.4 26.2#



#20
Methylene Chloride
Concen: 3.869 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN063404.D
Acq: 17 Sep 2020 7:51

Tgt Ion: 84 Resp: 12273
Ion Ratio Lower Upper
84 100
49 132.7 110.7 166.1
51 39.1 32.9 49.3
86 61.1 51.1 76.7





#25

2-Butanone

Concen: 1.369 ug/l

RT: 6.80 min Scan# 1574

Delta R.T. 0.02 min

Lab File: VN063404.D

Acq: 17 Sep 2020 7:51

Instrument :

MSVOA_N

ClientSampled :

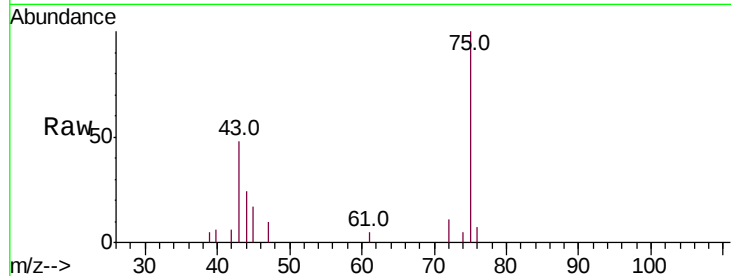
VNJ-220

Tot Ion: 43 Resp: 2636

Ion Ratio Lower Upper

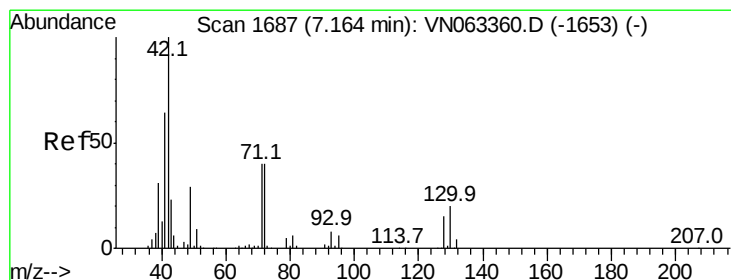
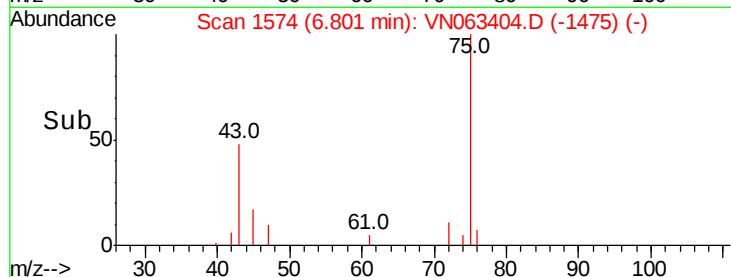
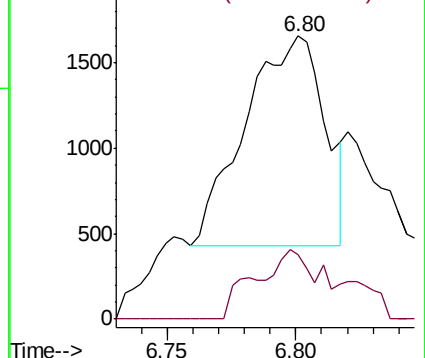
43 100

72 30.9 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#29

Tetrahydrofuran

Concen: 1.480 ug/l

RT: 7.18 min Scan# 1693

Delta R.T. 0.02 min

Lab File: VN063404.D

Acq: 17 Sep 2020 7:51

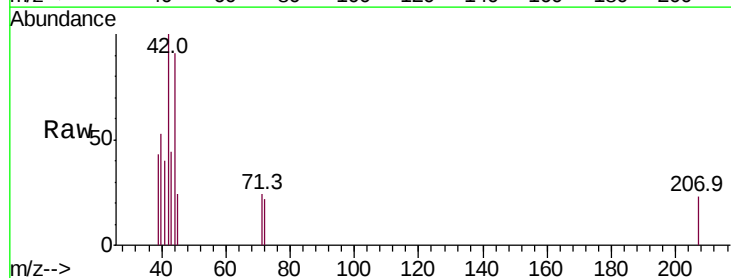
Tgt Ion: 42 Resp: 1946

Ion Ratio Lower Upper

42 100

72 0.0 32.1 48.1#

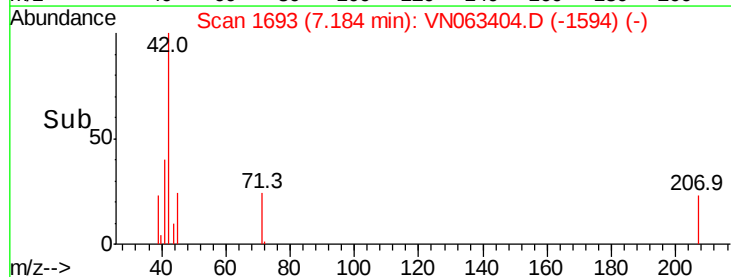
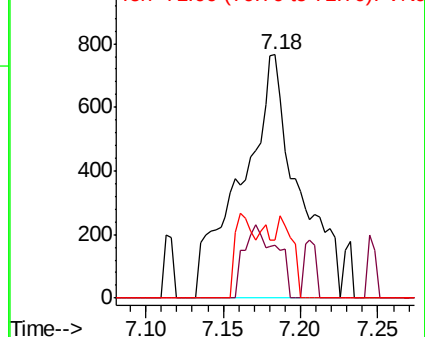
71 8.4 31.2 46.8#

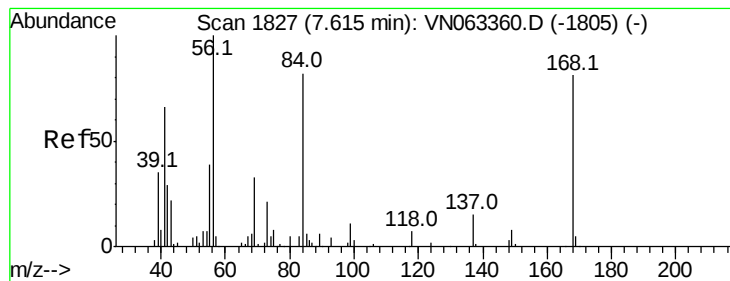


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0





#31

Cyclohexane

Concen: 1.298 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. 0.01 min

Lab File: VN063404.D

Acq: 17 Sep 2020 7:51

Instrument :

MSVOA_N

ClientSampled :

VNJ-220

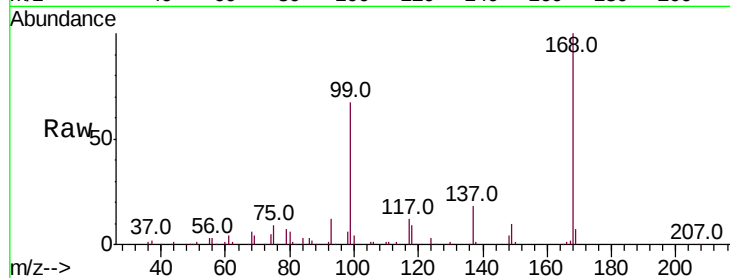
Tot Ion: 56 Resp: 6984

Ion Ratio Lower Upper

56 100

69 127.4 26.1 39.1#

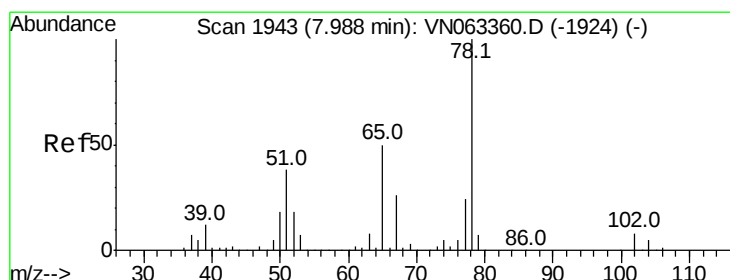
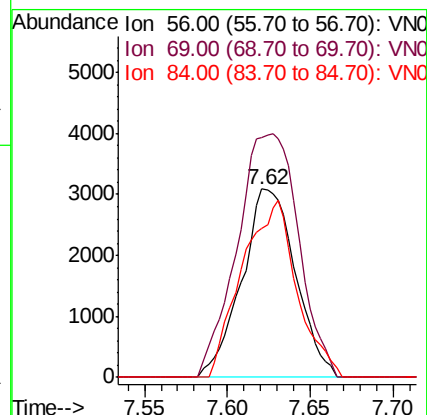
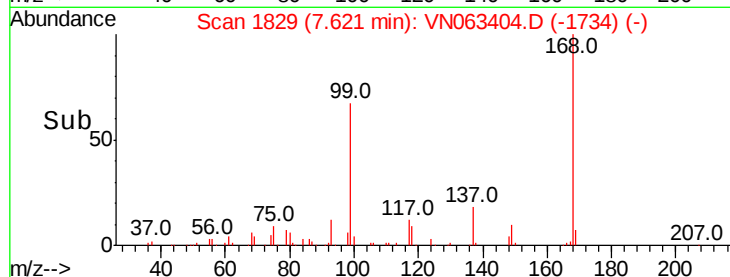
84 78.8 65.4 98.2



Abundance Ion 56.00 (55.70 to 56.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 84.00 (83.70 to 84.70): VNC



#33

1,2-Dichloroethane-d4

Concen: 50.251 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN063404.D

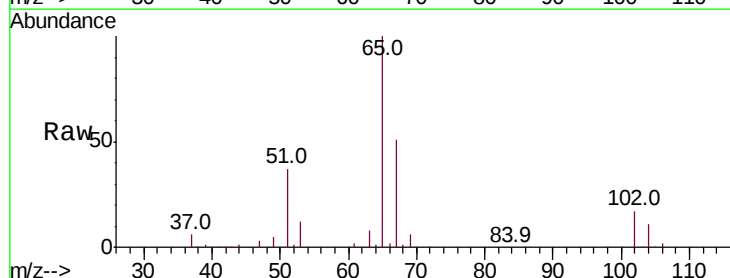
Acq: 17 Sep 2020 7:51

Tgt Ion: 65 Resp: 195745

Ion Ratio Lower Upper

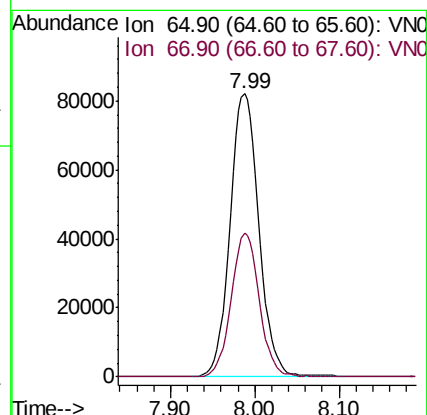
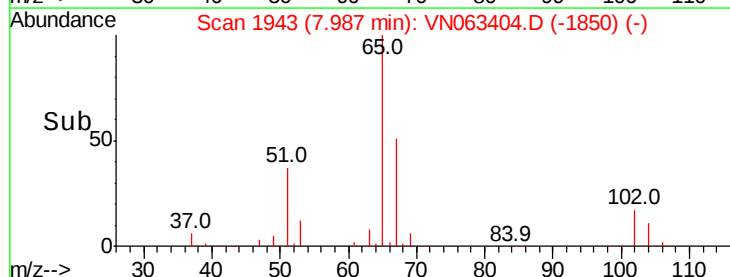
65 100

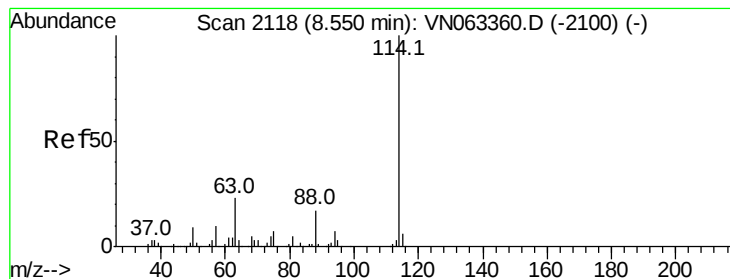
67 49.2 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VNC

Ion 66.90 (66.60 to 67.60): VNC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN063404.D

Acq: 17 Sep 2020 7:51

Instrument :

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ClientSampleId :

VNJ-220

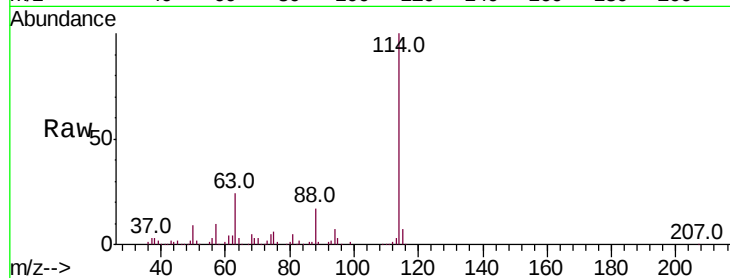
Tot Ion:114 Resp: 436260

Ion Ratio Lower Upper

114 100

63 24.0 0.0 46.4

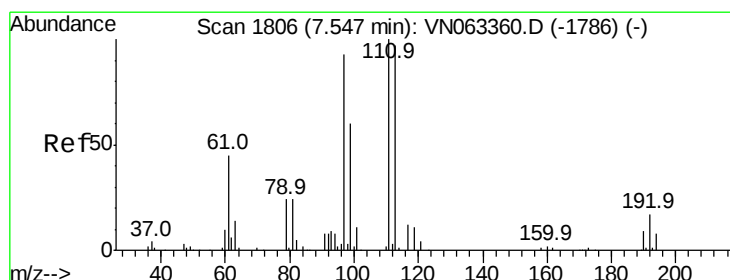
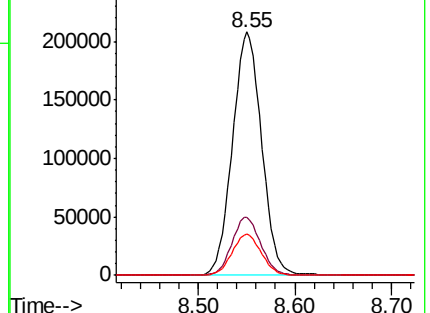
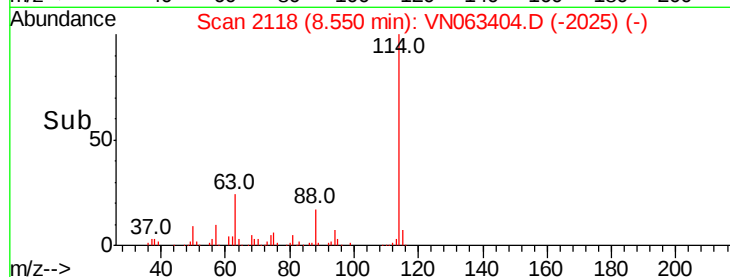
88 17.1 0.0 33.2



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: 46.560 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063404.D

Acq: 17 Sep 2020 7:51

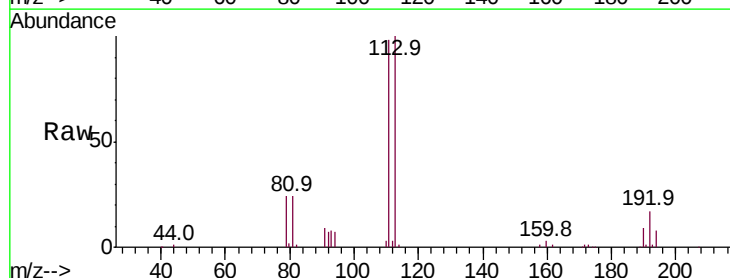
Tgt Ion:113 Resp: 140618

Ion Ratio Lower Upper

113 100

111 102.7 82.9 124.3

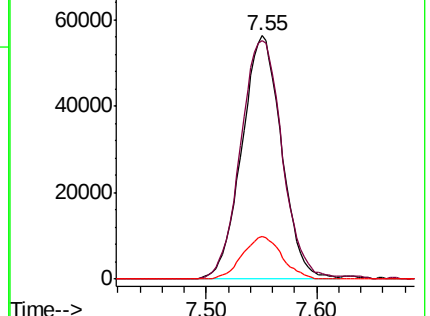
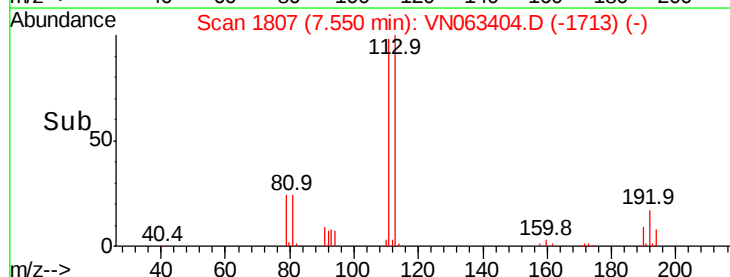
192 17.4 13.9 20.9

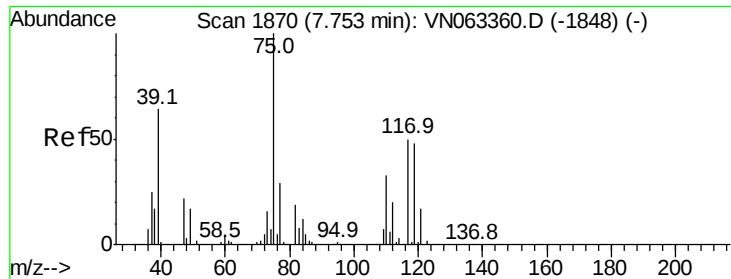


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.759 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. -0.12 min

Lab File: VN063404.D

Acq: 17 Sep 2020 7:51

Instrument :

MSVOA_N

ClientSampled :

VNJ-220

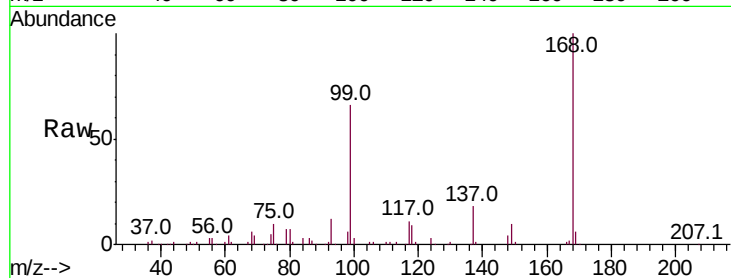
Tot Ion: 75 Resp: 22117

Ion Ratio Lower Upper

75 100

110 8.8 16.5 49.5#

77 0.0 24.6 36.8#

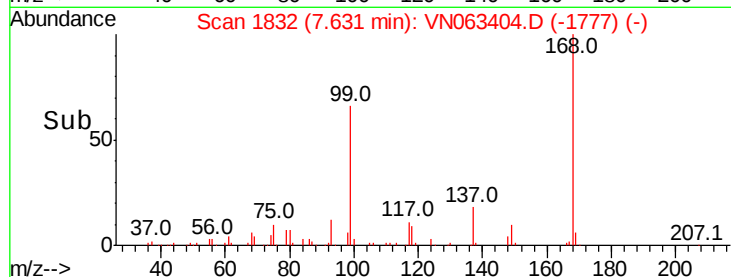


Abundance Ion 74.90 (74.60 to 75.60): VN063360.D (-1848) (-)

Ion 109.90 (109.60 to 110.60): VN063360.D (-1848) (-)

Ion 76.90 (76.60 to 77.60): VN063360.D (-1848) (-)

Time-->

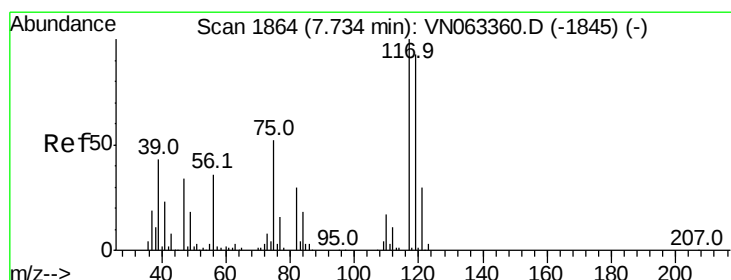


Abundance Ion 74.90 (74.60 to 75.60): VN063404.D (-1777) (-)

Ion 109.90 (109.60 to 110.60): VN063404.D (-1777) (-)

Ion 76.90 (76.60 to 77.60): VN063404.D (-1777) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 5.453 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063404.D

Acq: 17 Sep 2020 7:51

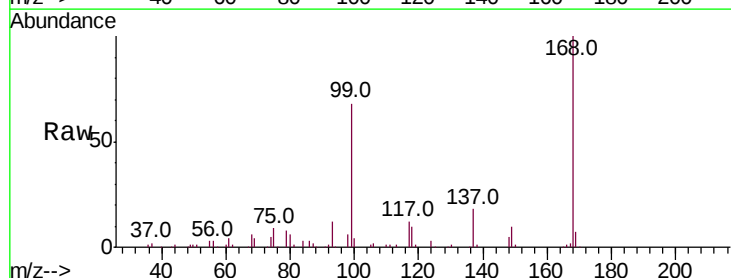
Tgt Ion: 117 Resp: 25871

Ion Ratio Lower Upper

117 100

119 5.2 74.5 111.7#

121 0.0 24.1 36.1#

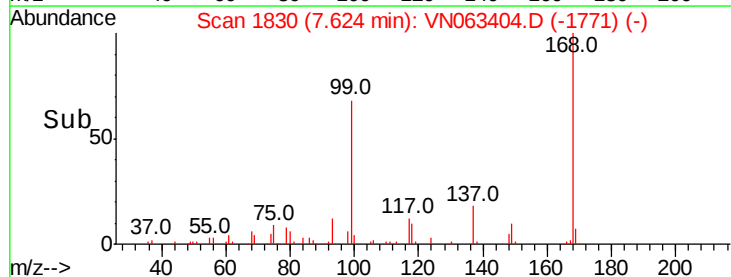


Abundance Ion 116.80 (116.50 to 117.50): VN063360.D (-1845) (-)

Ion 118.80 (118.50 to 119.50): VN063360.D (-1845) (-)

Ion 120.80 (120.50 to 121.50): VN063360.D (-1845) (-)

Time-->

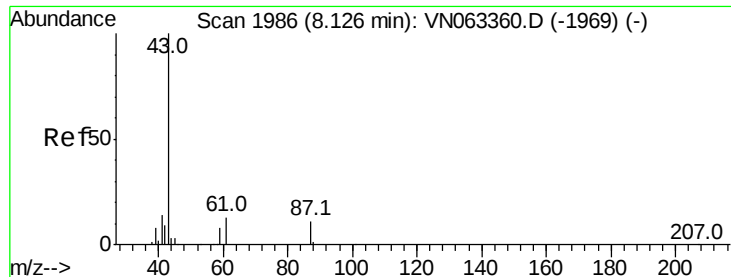


Abundance Ion 116.80 (116.50 to 117.50): VN063404.D (-1771) (-)

Ion 118.80 (118.50 to 119.50): VN063404.D (-1771) (-)

Ion 120.80 (120.50 to 121.50): VN063404.D (-1771) (-)

Time-->



#43

Isopropyl Acetate

Concen: 9.815 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN063404.D

Acq: 17 Sep 2020 7:51

Instrument :

MSVOA_N

ClientSampleId :

VNJ-220

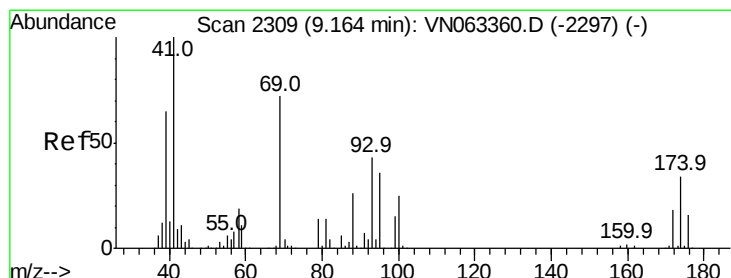
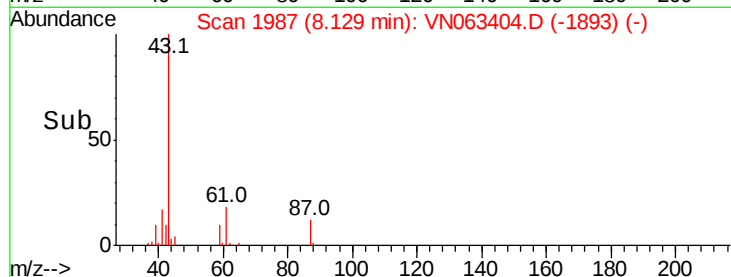
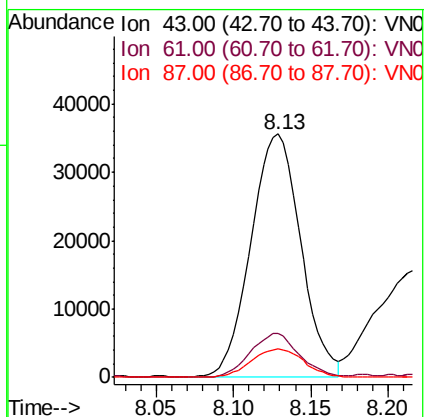
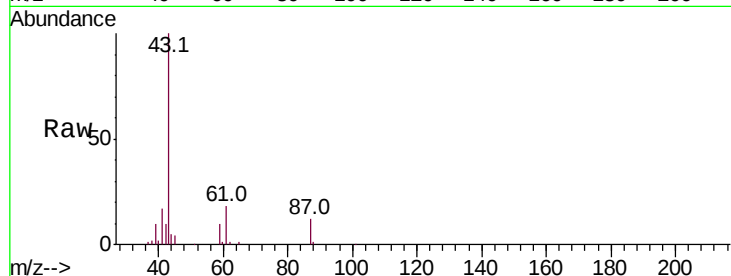
Tot Ion: 43 Resp: 80059

Ion Ratio Lower Upper

43 100

61 17.7 14.2 21.2

87 12.1 9.0 13.6



#48

Methyl methacrylate

Concen: 0.929 ug/l

RT: 9.15 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN063404.D

Acq: 17 Sep 2020 7:51

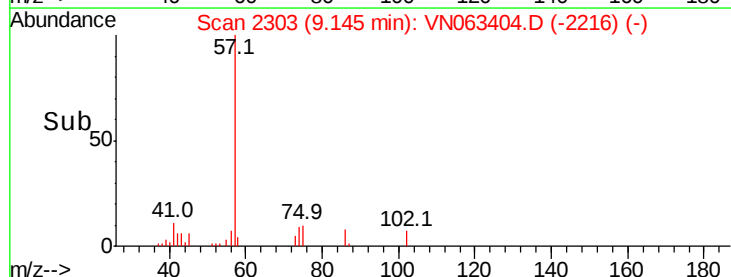
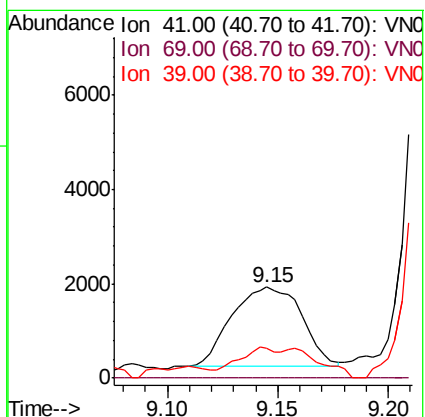
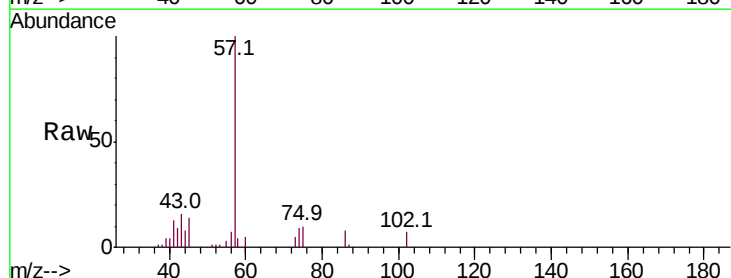
Tgt Ion: 41 Resp: 3721

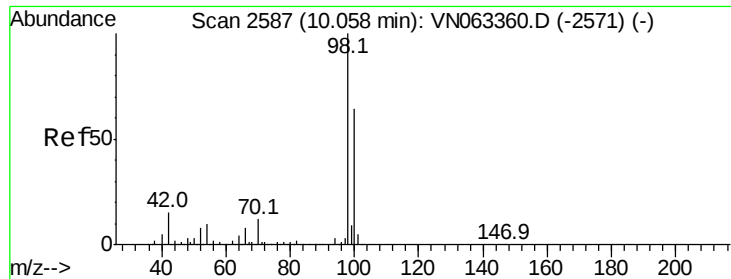
Ion Ratio Lower Upper

41 100

69 0.0 59.3 88.9#

39 0.0 52.9 79.3#





#50

Toluene-d8

Concen: 49.852 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063404.D

Acq: 17 Sep 2020 7:51

Instrument :

MSVOA_N

ClientSampled :

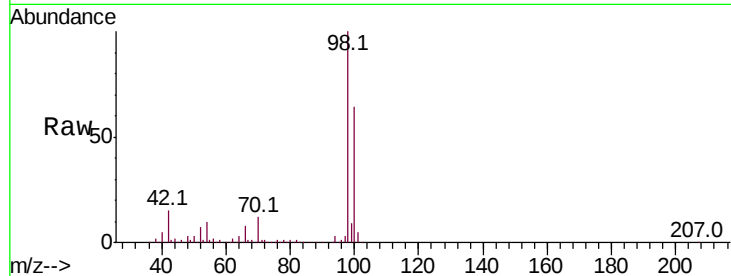
VNJ-220

Tot Ion: 98 Resp: 566134

Ion Ratio Lower Upper

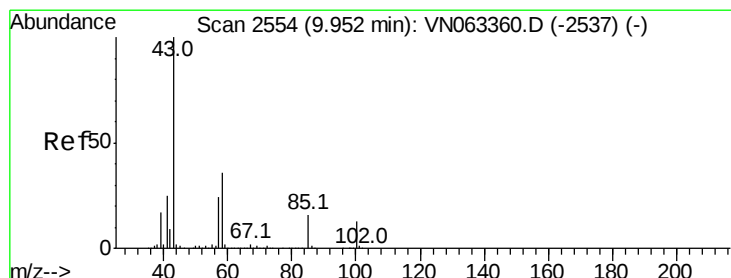
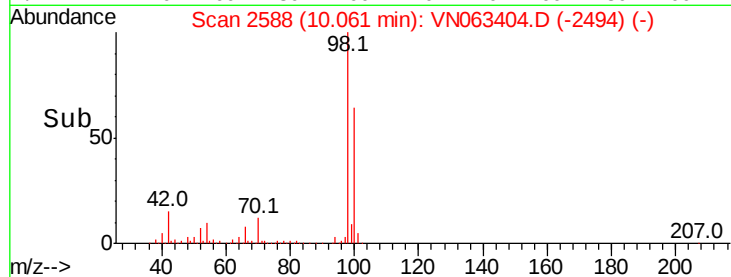
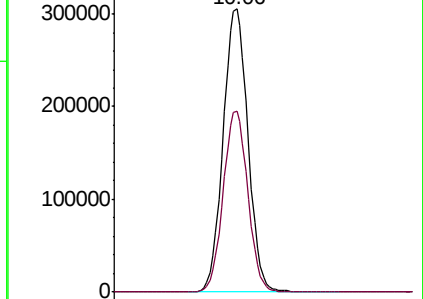
98 100

100 63.4 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN063360.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN063360.D (-2571) (-)



#51

4-Methyl-2-Pentanone

Concen: 2.495 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN063404.D

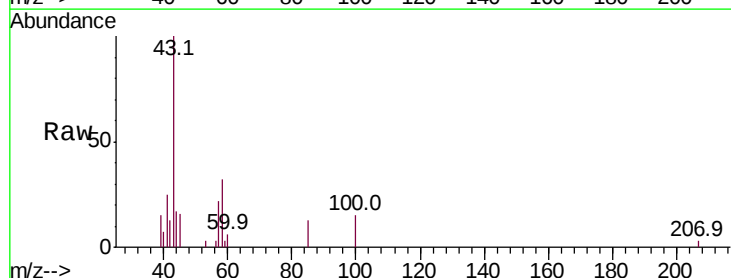
Acq: 17 Sep 2020 7:51

Tgt Ion: 43 Resp: 11392

Ion Ratio Lower Upper

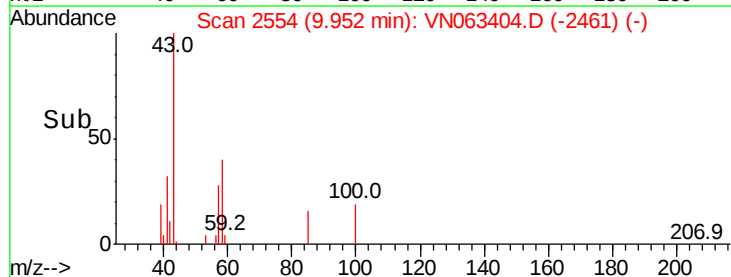
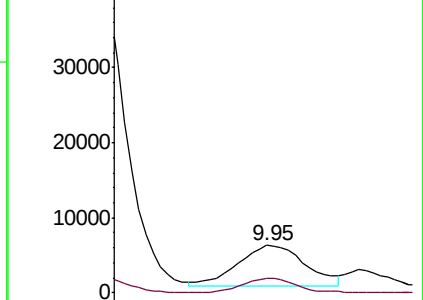
43 100

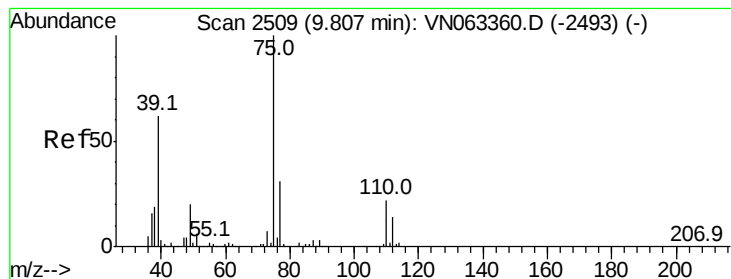
58 28.9 29.0 43.6#



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-2537) (-)

Ion 58.00 (57.70 to 58.70): VN063360.D (-2537) (-)



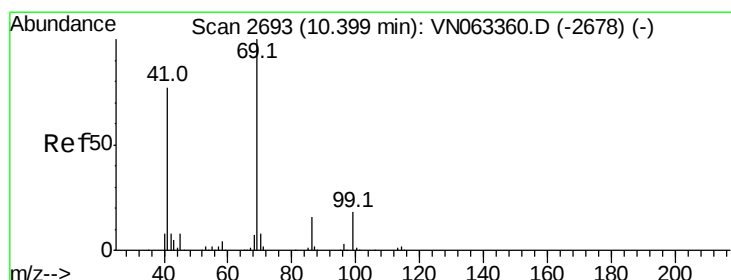
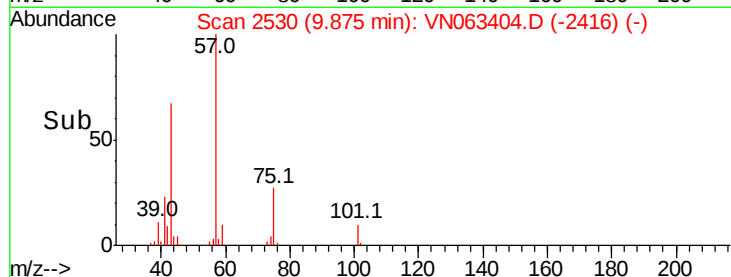
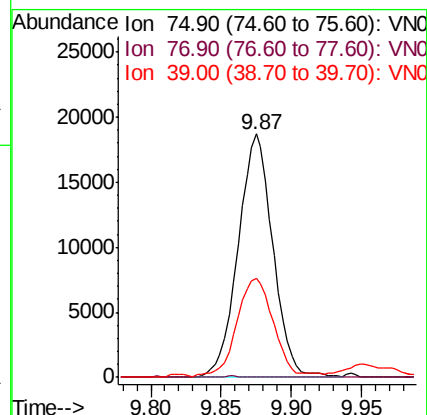
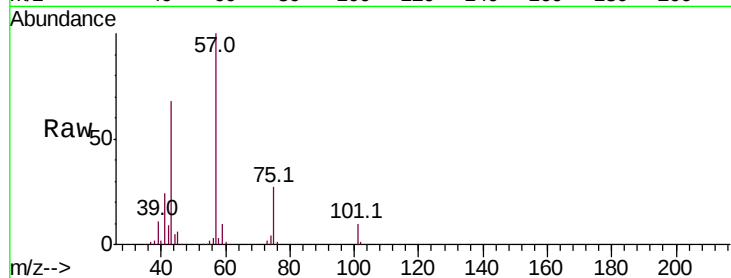


#54

cis-1,3-Dichloropropene
 Concen: 5.558 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN063404.D
 Acq: 17 Sep 2020 7:51

Instrument :
 MSVOA_N
 ClientSampleId :
 VNJ-220

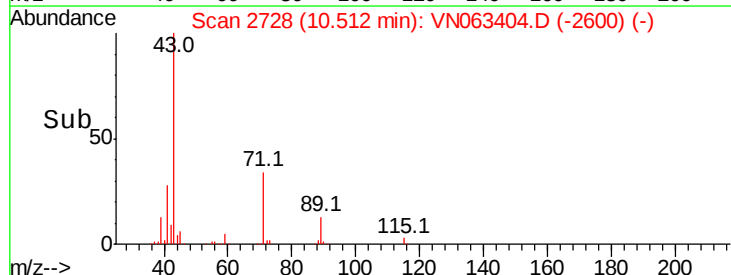
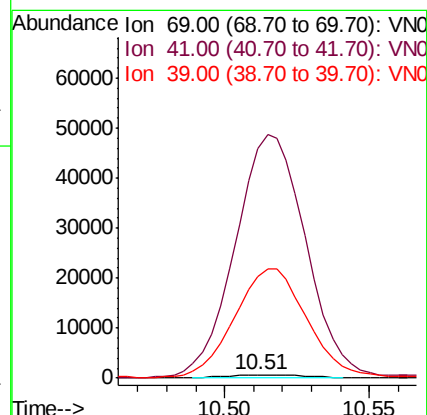
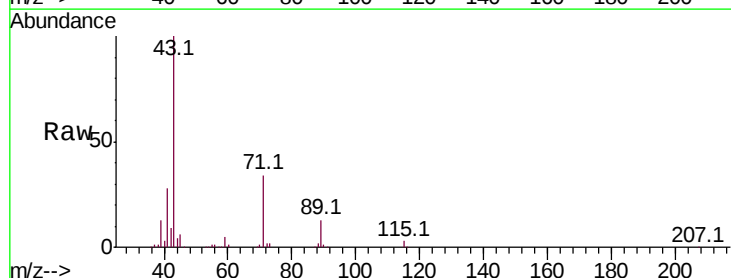
Tot Ion: 75 Resp: 32291
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.6 37.0#
 39 40.4 49.8 74.8#

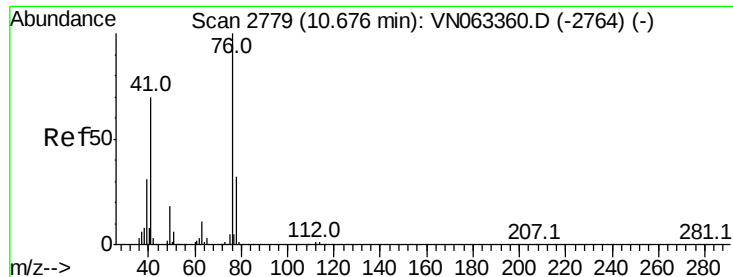


#56

Ethyl methacrylate
 Concen: 0.260 ug/l
 RT: 10.51 min Scan# 2728
 Delta R.T. 0.11 min
 Lab File: VN063404.D
 Acq: 17 Sep 2020 7:51

Tgt Ion: 69 Resp: 1287
 Ion Ratio Lower Upper
 69 100
 41 6482.1 61.0 91.6#
 39 2922.1 39.2 58.8#





#57

1,3-Dichloropropane

Concen: 0.748 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN063404.D

Acq: 17 Sep 2020 7:51

Instrument :

MSVOA_N

ClientSampleId :

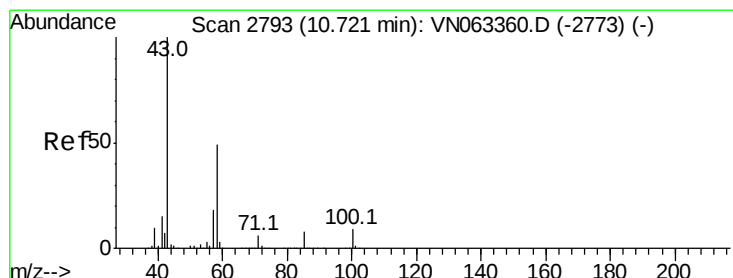
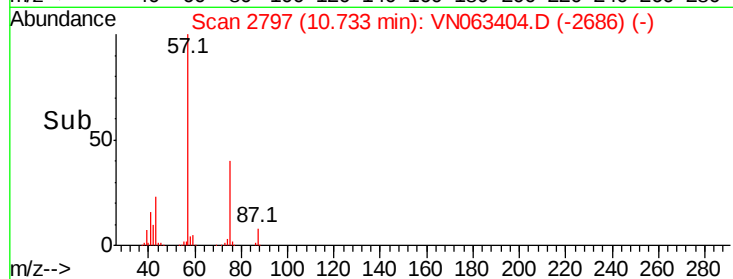
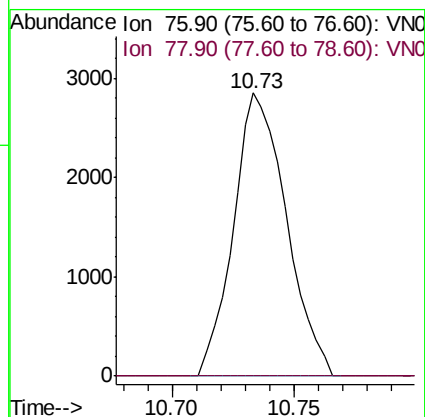
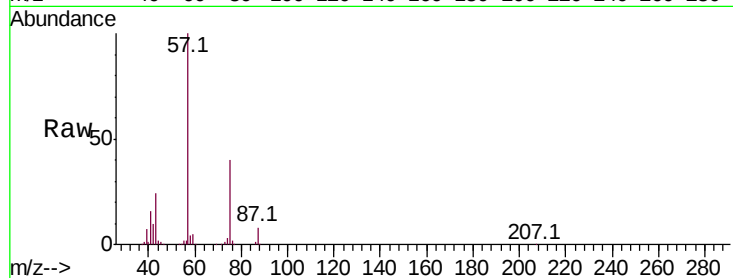
VNJ-220

Tot Ion: 76 Resp: 4275

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 21.281 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063404.D

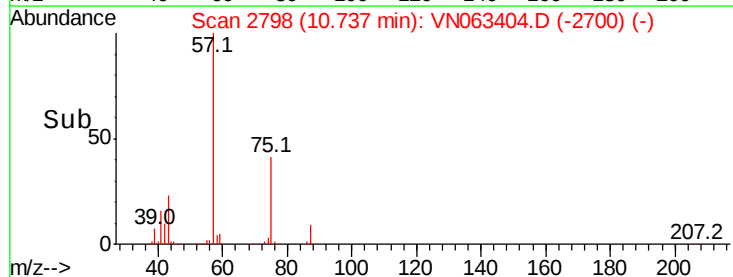
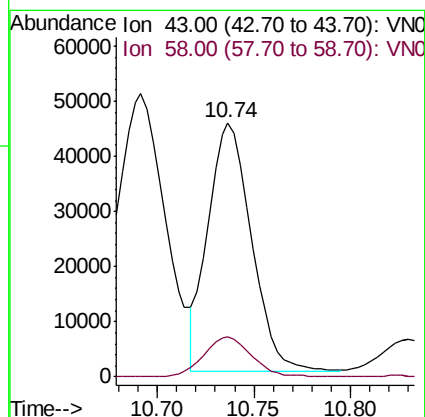
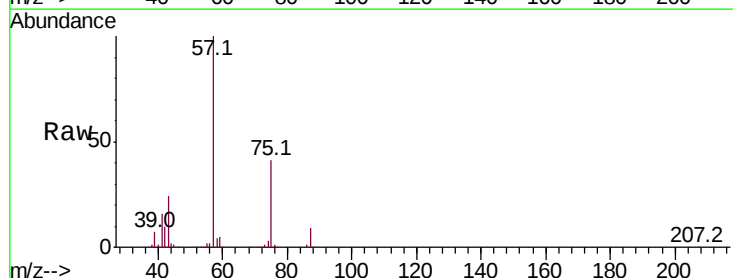
Acq: 17 Sep 2020 7:51

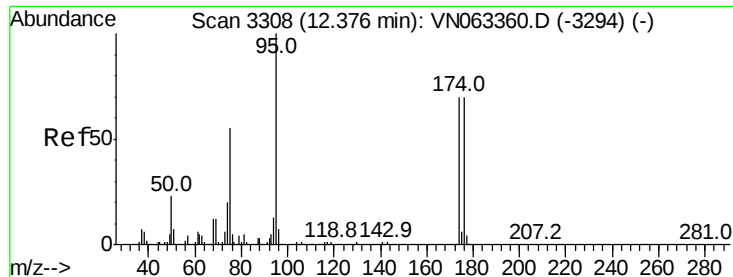
Tgt Ion: 43 Resp: 70401

Ion Ratio Lower Upper

43 100

58 17.8 24.7 74.1#





#62

4-Bromofluorobenzene

Concen: 53.861 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063404.D

Acq: 17 Sep 2020 7:51

Instrument :

MSVOA_N

ClientSampleId :

VNJ-220

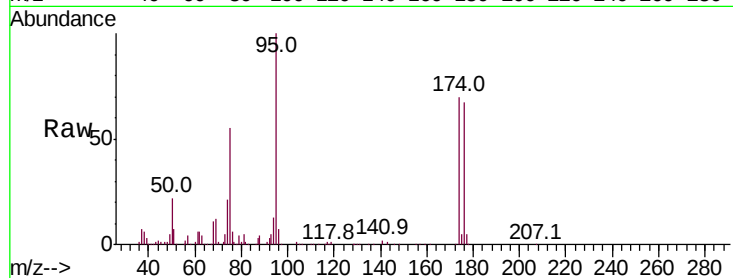
Tot Ion: 95 Resp: 224223

Ion Ratio Lower Upper

95 100

174 71.0 0.0 140.8

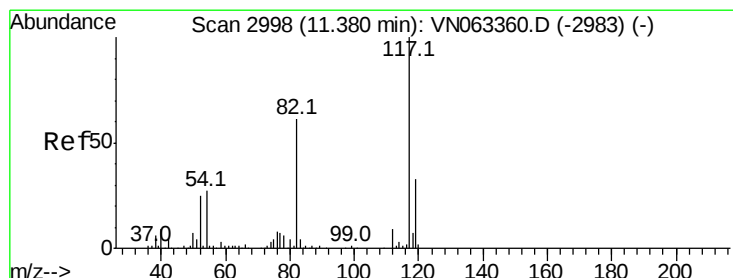
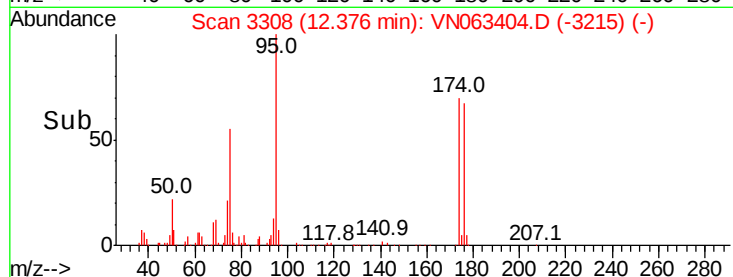
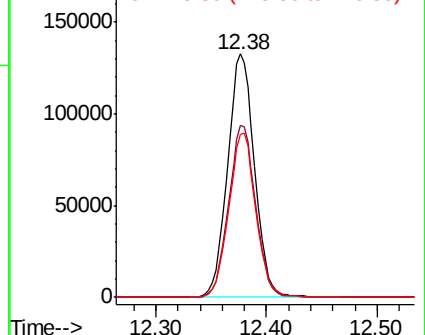
176 67.7 0.0 137.6



Abundance Ion 94.90 (94.60 to 95.60): VN063360.D (-3294) (-)

Ion 173.80 (173.50 to 174.50): VN063360.D (-3294) (-)

Ion 175.80 (175.50 to 176.50): VN063360.D (-3294) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN063404.D

Acq: 17 Sep 2020 7:51

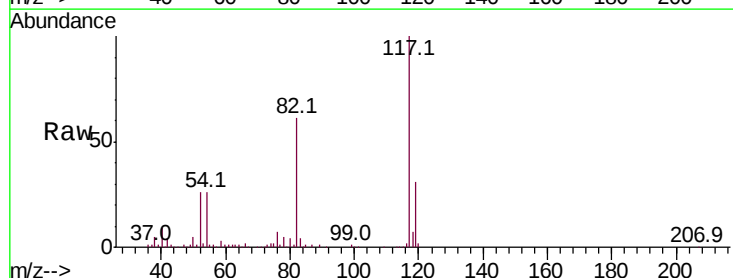
Tgt Ion: 117 Resp: 430506

Ion Ratio Lower Upper

117 100

82 61.0 49.2 73.8

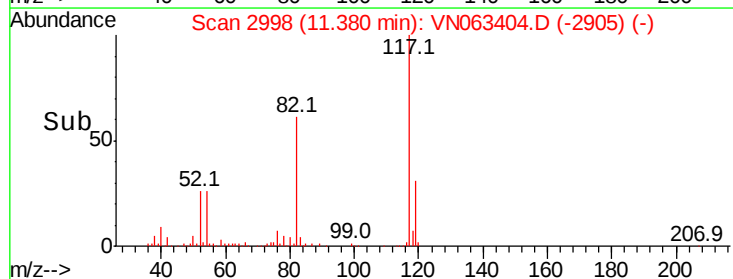
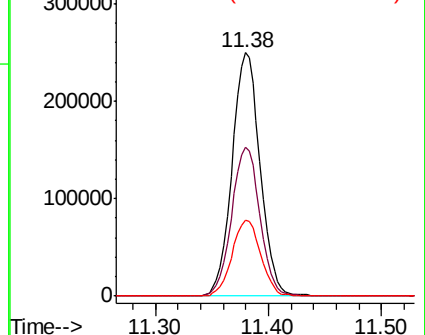
119 31.2 26.2 39.4

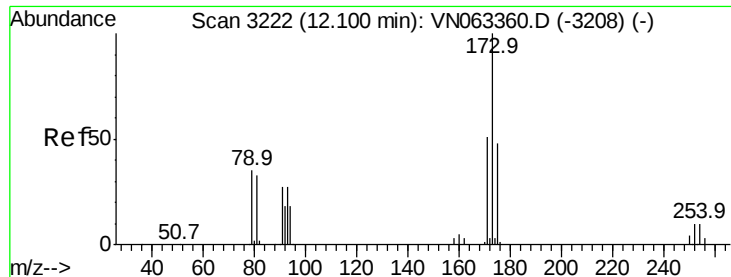


Abundance Ion 116.90 (116.60 to 117.60): VN063360.D (-2983) (-)

Ion 82.00 (81.70 to 82.70): VN063360.D (-2983) (-)

Ion 118.90 (118.60 to 119.60): VN063360.D (-2983) (-)

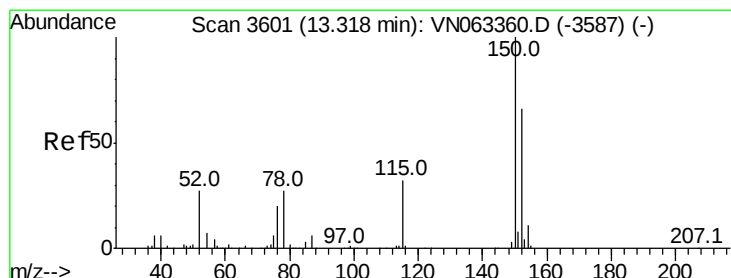
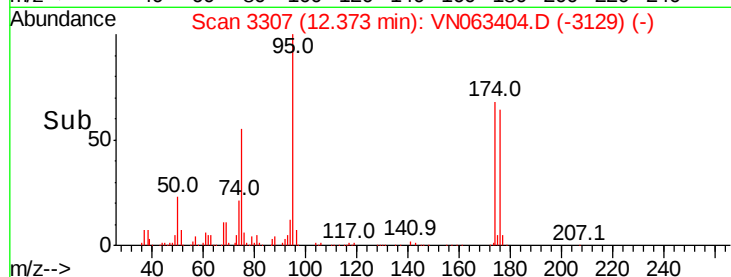
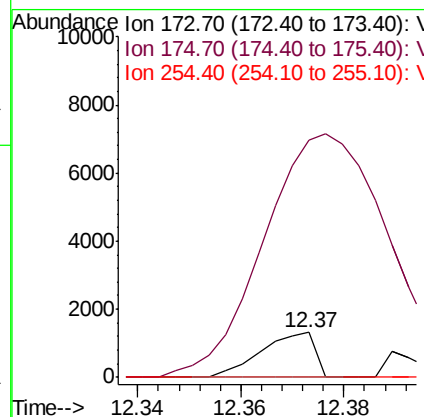
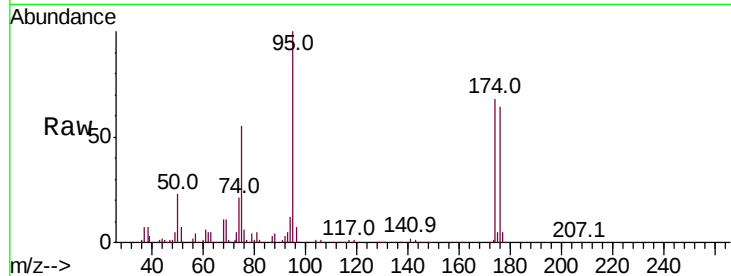




#71
Bromoform
Concen: 0.378 ug/l
RT: 12.37 min Scan# 3307
Delta R.T. 0.27 min
Lab File: VN063404.D
Acq: 17 Sep 2020 7:51

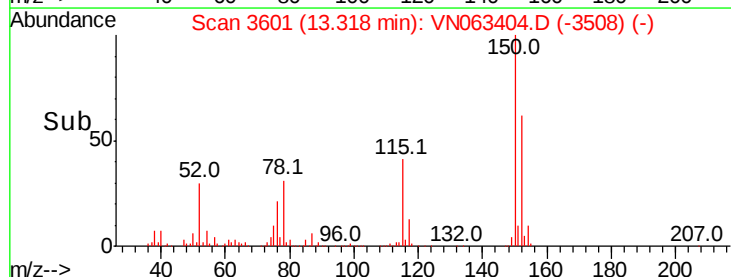
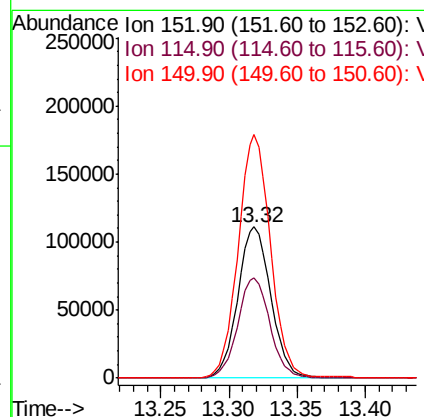
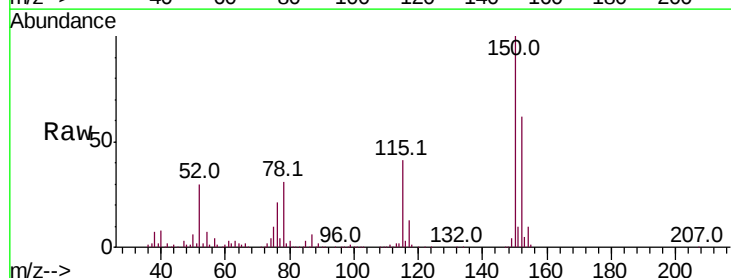
Instrument :
MSVOA_N
ClientSampled :
VNJ-220

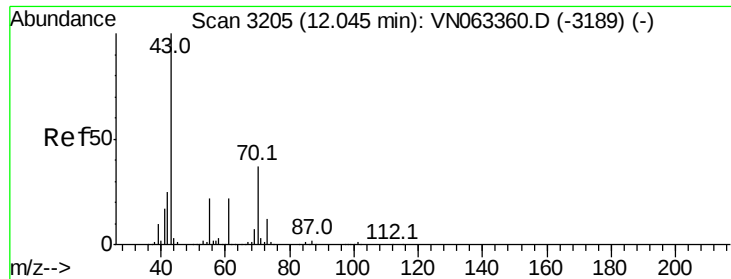
Tot Ion:173 Resp: 943
Ion Ratio Lower Upper
173 100
175 1065.0 24.0 72.0#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. -0.00 min
Lab File: VN063404.D
Acq: 17 Sep 2020 7:51

Tgt Ion:152 Resp: 186669
Ion Ratio Lower Upper
152 100
115 64.6 32.2 96.6
150 158.4 0.0 343.4





#74

N-amvl acetate

Concen: 0.532 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN063404.D

Acq: 17 Sep 2020 7:51

Instrument :

MSVOA_N

ClientSampleId :

VNJ-220

Tot Ion: 43 Resp: 3768

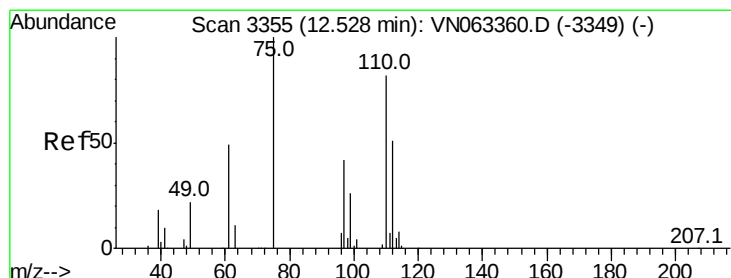
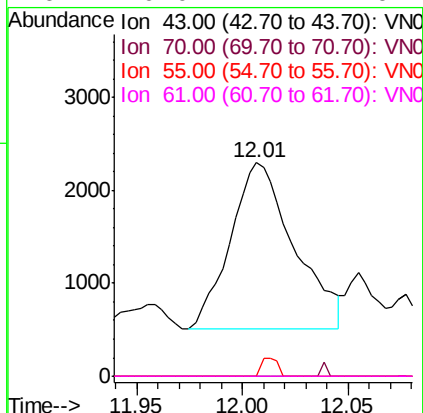
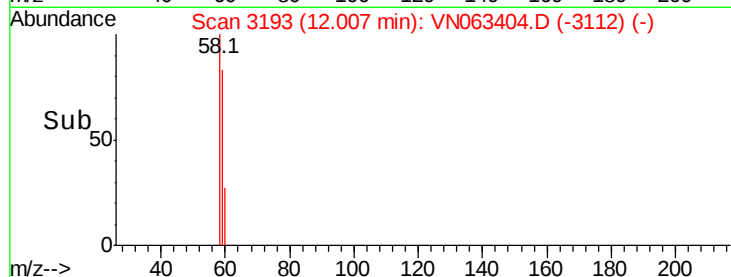
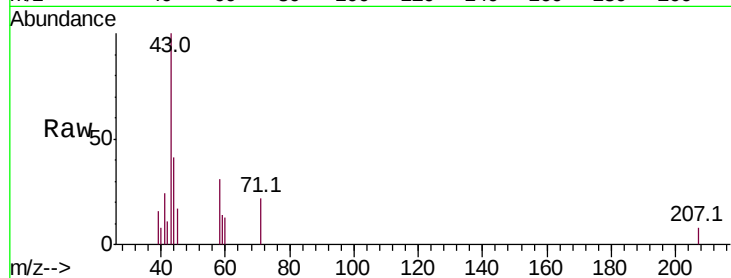
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 2.9 17.7 26.5#

61 0.0 17.4 26.2#



#76

1,2,3-Trichloropropane

Concen: 26.878 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063404.D

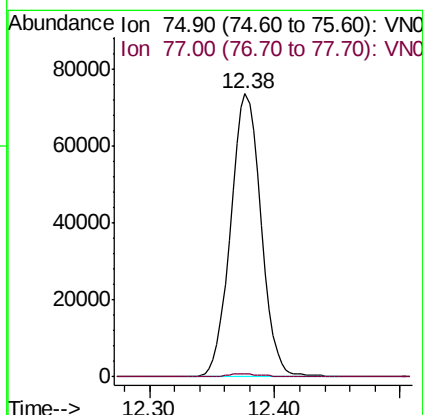
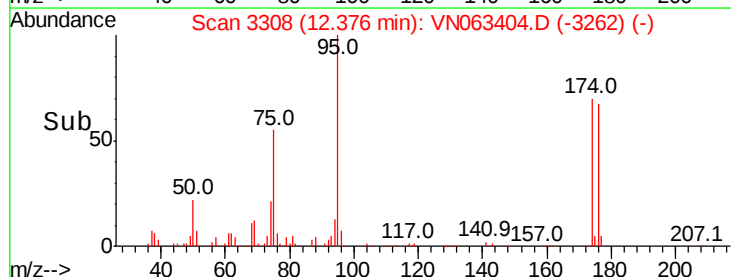
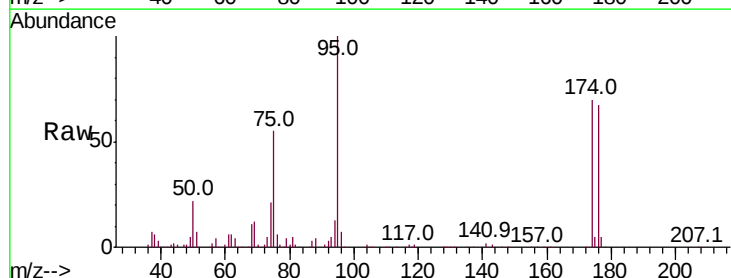
Acq: 17 Sep 2020 7:51

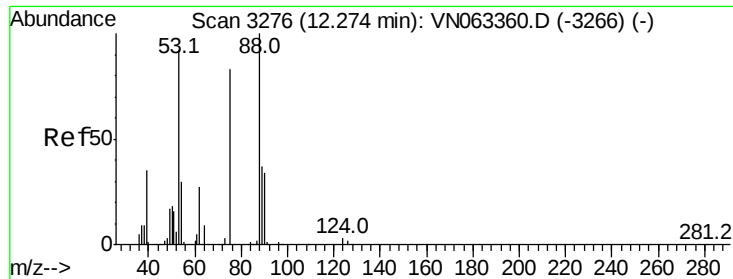
Tgt Ion: 75 Resp: 124186

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 73.690 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063404.D

Acq: 17 Sep 2020 7:51

Instrument :

MSVOA_N

ClientSampleId :

VNJ-220

Tot Ion: 75 Resp: 124186

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#

