

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092320\
 Data File : VN063613.D
 Acq On : 24 Sep 2020 2:05
 Operator : JC/MD
 Sample : PB131813TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131813TB

Quant Time: Sep 24 05:04:12 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

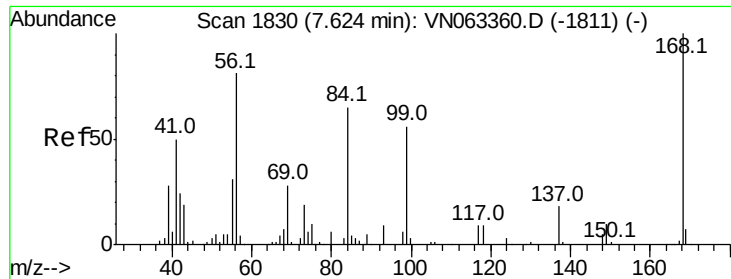
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	200781	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	388182	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	392345	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	163020	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	170736	49.95	ug/l	0.00
Spiked Amount			Recovery	=	99.90%	
35) Dibromofluoromethane	7.55	113	124021	46.15	ug/l	0.00
Spiked Amount			Recovery	=	92.30%	
50) Toluene-d8	10.06	98	498146	49.30	ug/l	0.00
Spiked Amount			Recovery	=	98.60%	
62) 4-Bromofluorobenzene	12.38	95	195931	52.89	ug/l	0.00
Spiked Amount			Recovery	=	105.78%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.70	59	152	0.321	ug/l #	72
16) Acetone	3.78	43	12365	11.257	ug/l	96
18) Methyl Acetate	4.29	43	3592	1.288	ug/l #	72
20) Methylene Chloride	4.51	84	10478	3.765	ug/l	85
25) 2-Butanone	6.79	43	1428	0.845	ug/l #	71
29) Tetrahydrofuran	7.17	42	433	0.375	ug/l #	71
31) Cyclohexane	7.62	56	2590	0.549	ug/l #	30
36) 1,1-Dichloropropene	7.63	75	18439	4.459	ug/l #	52
38) Carbon Tetrachloride	7.63	117	22265	5.274	ug/l #	18
41) Methacrylonitrile	7.16	41	599	0.328	ug/l #	100
43) Isopropyl Acetate	8.13	43	77491	10.677	ug/l	99
45) 1,2-Dichloropropane	9.24	63	1788	0.556	ug/l #	43
48) Methyl methacrylate	9.14	41	4893	1.372	ug/l #	15
49) 1,4-Dioxane	9.23	88	206	4.026	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	9051	2.228	ug/l	99
54) cis-1,3-Dichloropropene	9.87	75	32359	6.259	ug/l #	65
56) Ethyl methacrylate	10.51	69	1576	0.358	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5282	1.039	ug/l #	42
59) 2-Hexanone	10.74	43	89108	30.272	ug/l #	54
74) N-amyl acetate	12.02	43	3965	0.641	ug/l #	50
76) 1,2,3-Trichloropropane	12.38	75	108434	26.874	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	4273	0.392	ug/l	86
81) trans-1,4-Dichloro-2-buten	12.38	75	108434	73.677	ug/l #	7

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

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ALS Vial : 38 Sample Multiplier: 1



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063613.D

Acq: 24 Sep 2020 2:05

Instrument :

MSVOA_N

ClientSampleId :

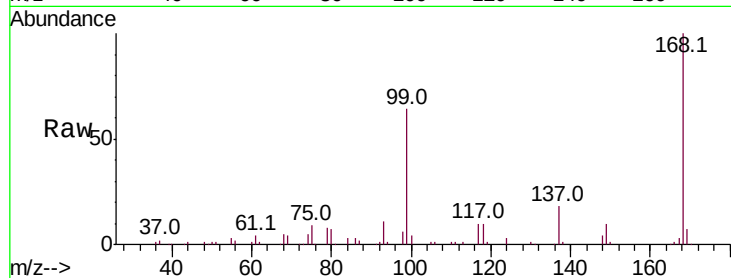
PB131813TB

Tot Ion:168 Resp: 200781

Ion Ratio Lower Upper

168 100

99 64.0 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

80000

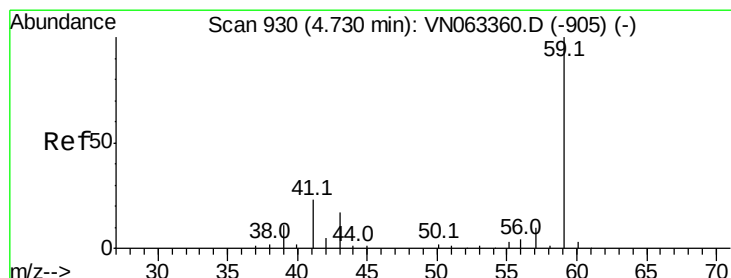
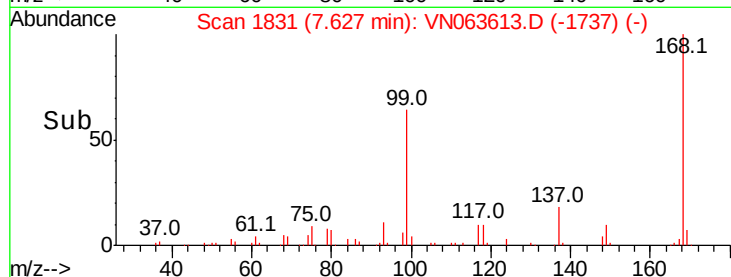
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.321 ug/l

RT: 4.70 min Scan# 921

Delta R.T. -0.03 min

Lab File: VN063613.D

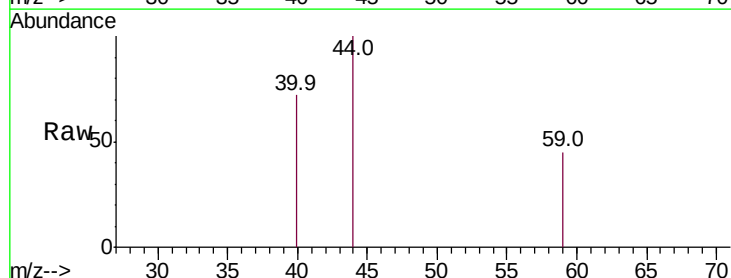
Acq: 24 Sep 2020 2:05

Tgt Ion: 59 Resp: 152

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

4.70

250

200

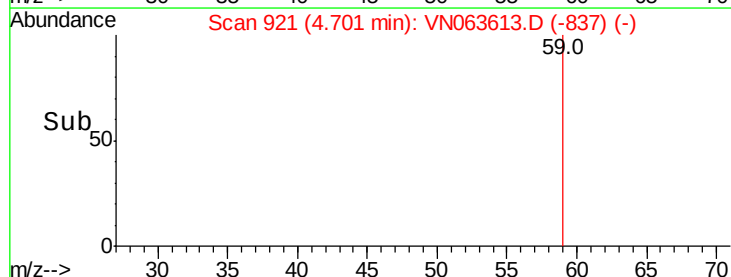
150

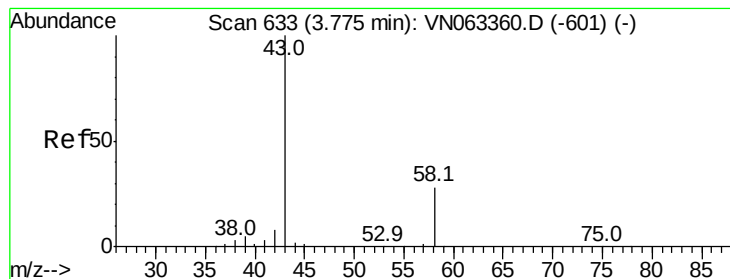
100

50

0

Time--> 4.69 4.70 4.71 4.72





#16

Acetone

Concen: 11.257 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063613.D

Acq: 24 Sep 2020 2:05

Instrument :

MSVOA_N

ClientSampleId :

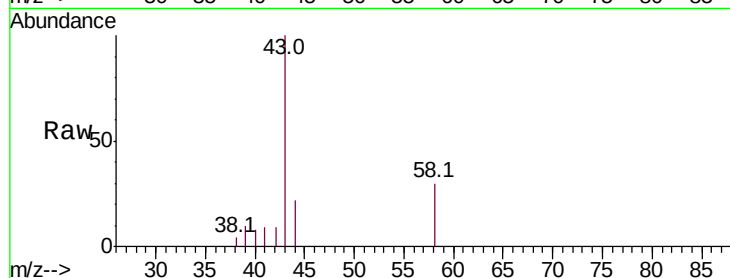
PB131813TB

Tot Ion: 43 Resp: 12365

Ion Ratio Lower Upper

43 100

58 30.0 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.78

4000

3000

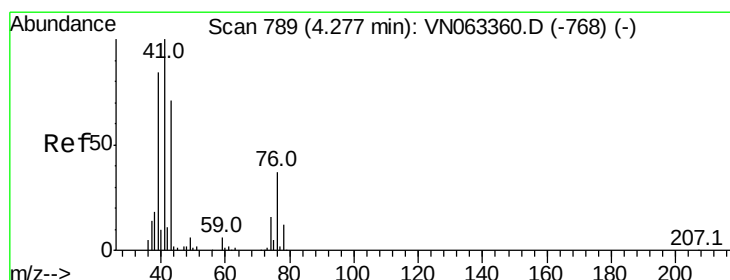
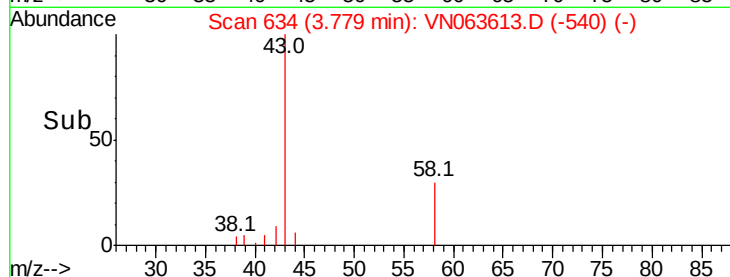
2000

1000

0

3.70 3.80 3.90

Time-->



#18

Methyl Acetate

Concen: 1.288 ug/l

RT: 4.29 min Scan# 794

Delta R.T. 0.02 min

Lab File: VN063613.D

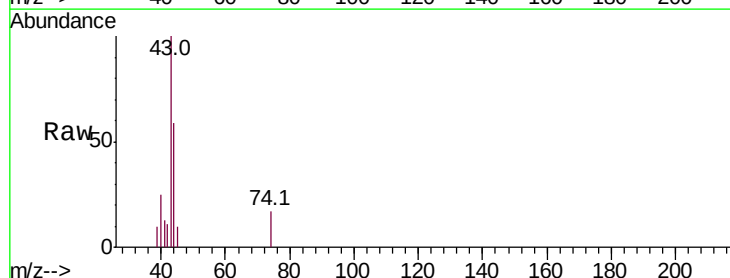
Acq: 24 Sep 2020 2:05

Tgt Ion: 43 Resp: 3592

Ion Ratio Lower Upper

43 100

74 8.6 17.4 26.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.29

1500

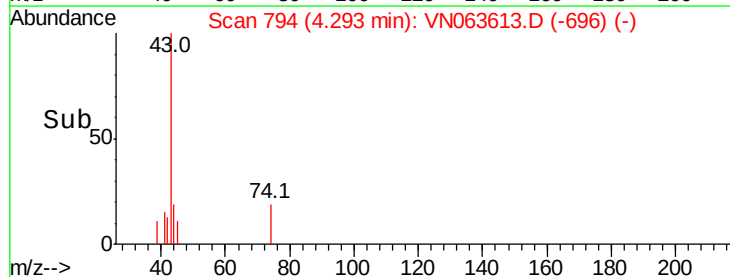
1000

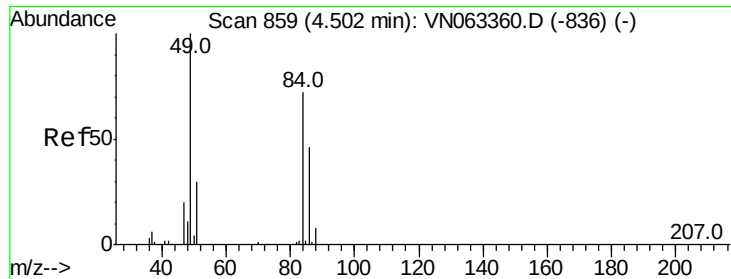
500

0

4.25 4.30

Time-->

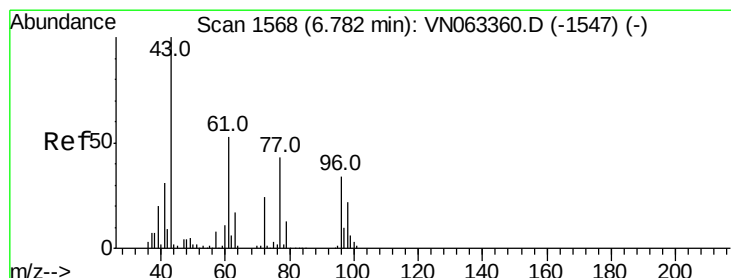
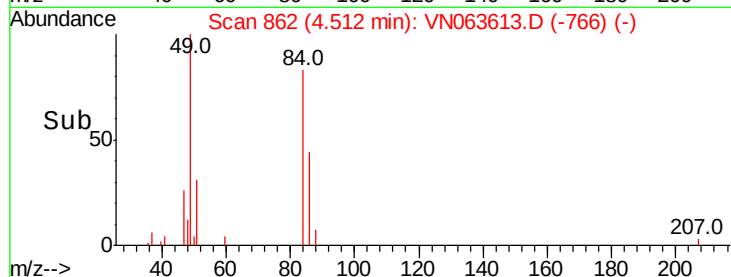
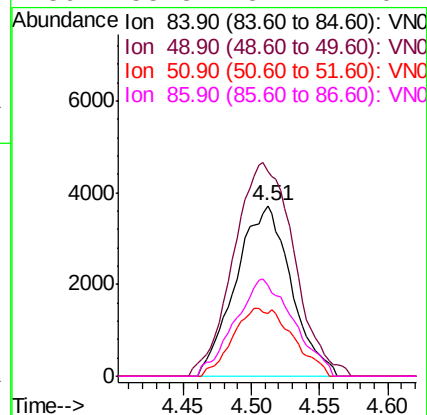
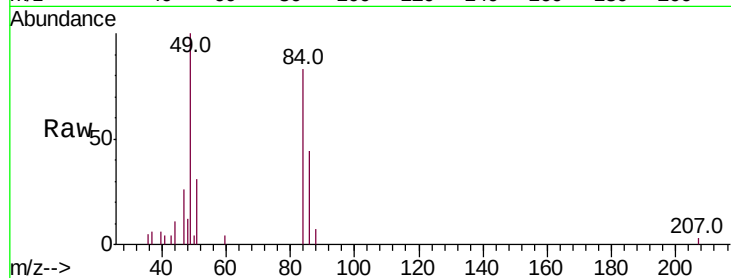




#20
Methvlene Chloride
Concen: 3.765 ug/l
RT: 4.51 min Scan# 862
Delta R.T. 0.01 min
Lab File: VN063613.D
Acq: 24 Sep 2020 2:05

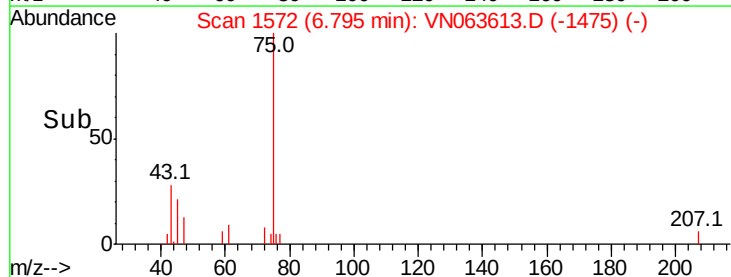
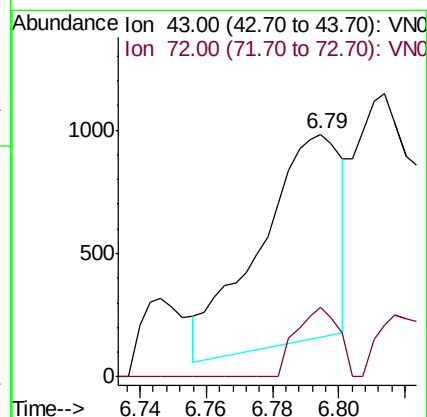
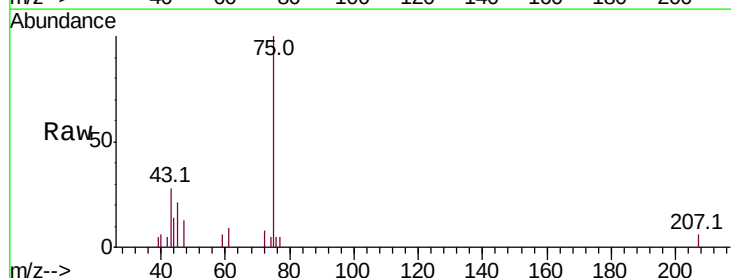
Instrument :
MSVOA_N
ClientSampled :
PB131813TB

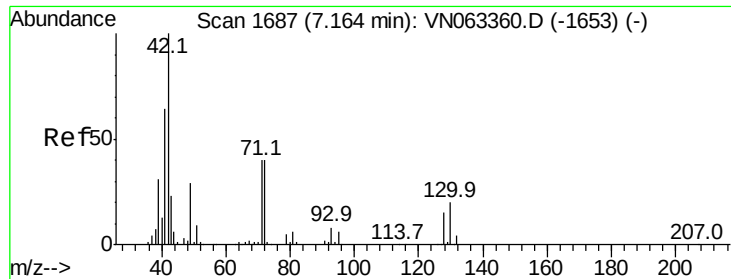
Tot Ion:	84	Resp:	10478
Ion	Ratio	Lower	Upper
84	100		
49	115.6	110.7	166.1
51	37.0	32.9	49.3
86	53.3	51.1	76.7



#25
2-Butanone
Concen: 0.845 ug/l
RT: 6.79 min Scan# 1572
Delta R.T. 0.01 min
Lab File: VN063613.D
Acq: 24 Sep 2020 2:05

Tgt Ion:	43	Resp:	1428
Ion	Ratio	Lower	Upper
43	100		
72	38.2	19.2	28.8#





#29

Tetrahydrofuran

Concen: 0.375 ug/l

RT: 7.17 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VN063613.D

Acq: 24 Sep 2020 2:05

Instrument :

MSVOA_N

ClientSampleId :

PB131813TB

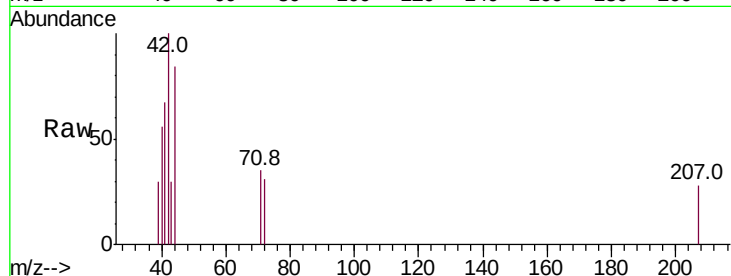
Tot Ion: 42 Resp: 433

Ion Ratio Lower Upper

42 100

72 7.4 32.1 48.1#

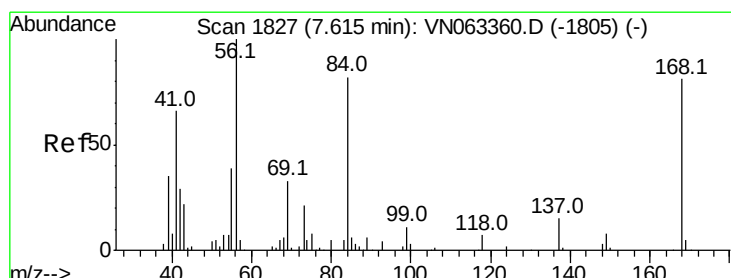
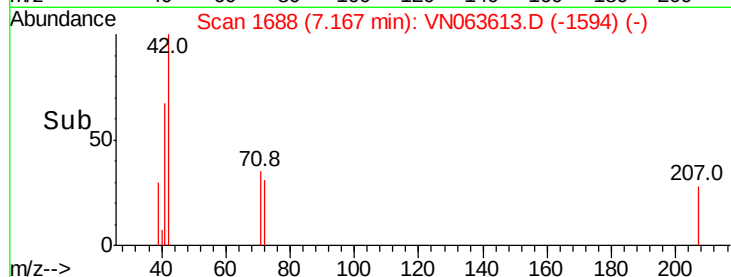
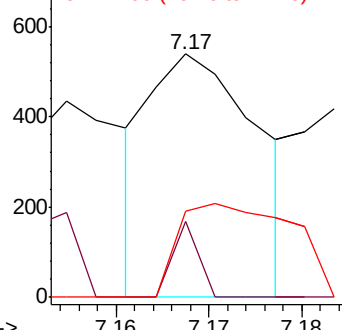
71 41.1 31.2 46.8



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: 0.549 ug/l

RT: 7.62 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN063613.D

Acq: 24 Sep 2020 2:05

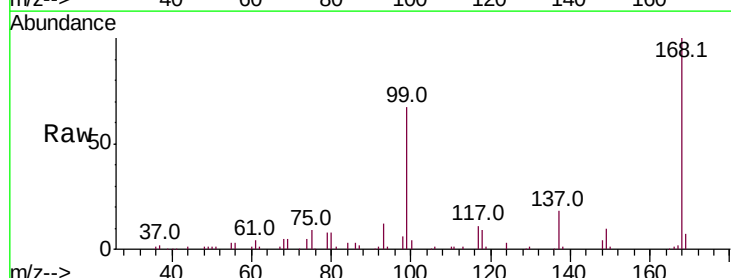
Tgt Ion: 56 Resp: 2590

Ion Ratio Lower Upper

56 100

69 155.6 26.1 39.1#

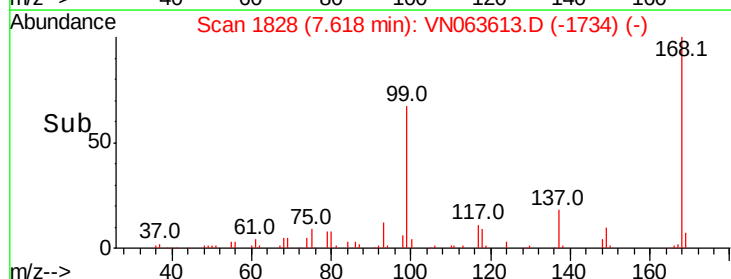
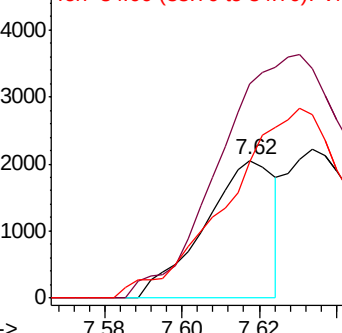
84 91.4 65.4 98.2

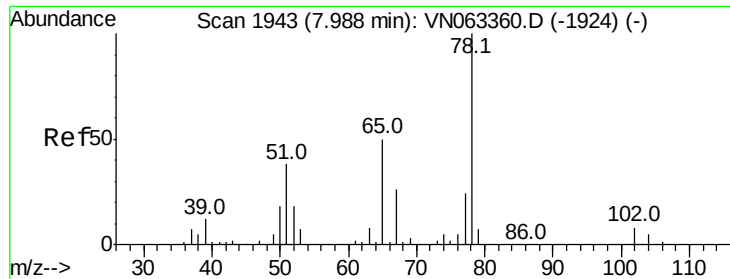


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

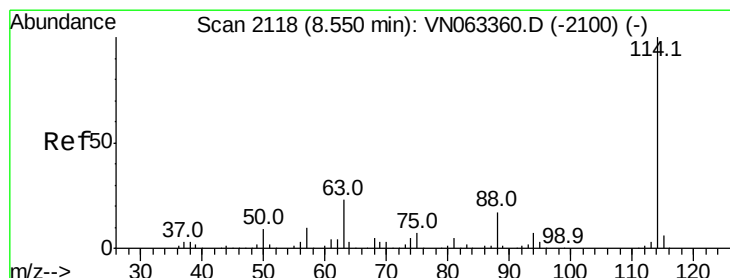
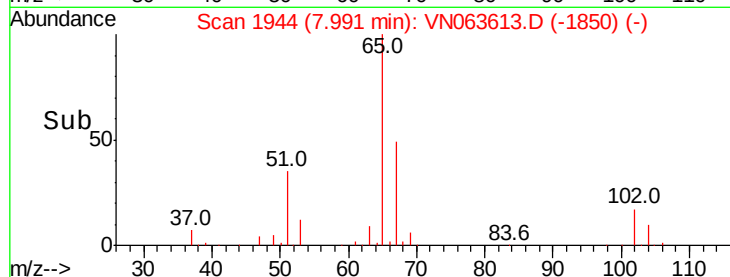
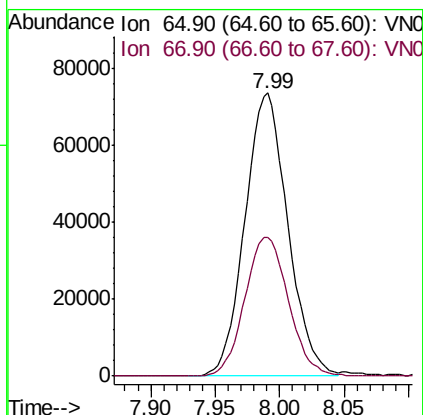
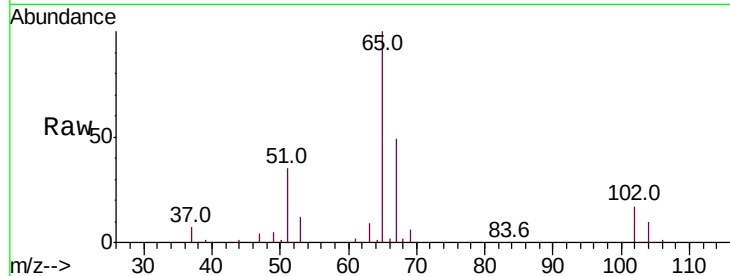




#33
 1,2-Dichloroethane-d4
 Concen: 49.955 ug/l
 RT: 7.99 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN063613.D
 Acq: 24 Sep 2020 2:05

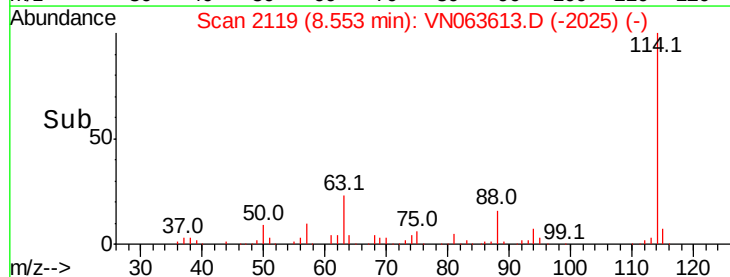
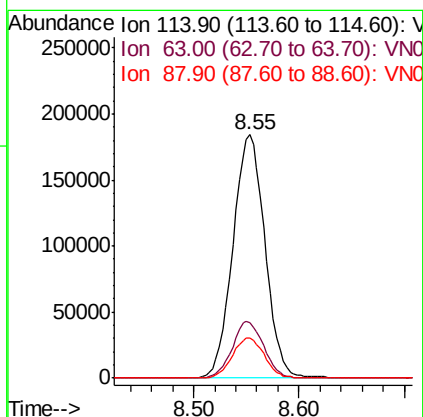
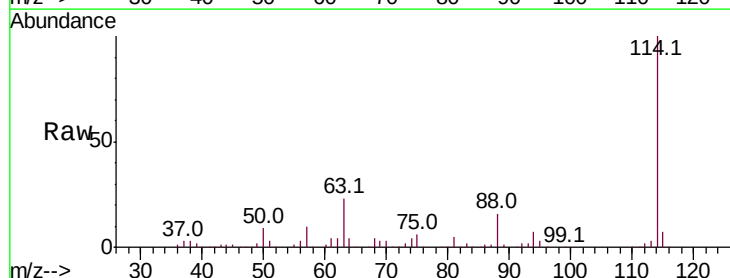
Instrument :
 MSVOA_N
 ClientSampled :
 PB131813TB

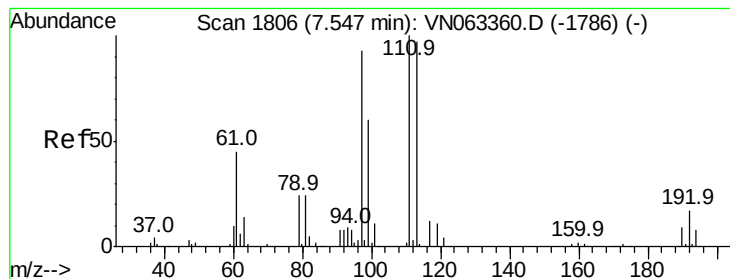
Tot Ion: 65 Resp: 170736
 Ion Ratio Lower Upper
 65 100
 67 50.0 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN063613.D
 Acq: 24 Sep 2020 2:05

Tgt Ion: 114 Resp: 388182
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 46.4
 88 16.4 0.0 33.2





#35

Dibromofluoromethane

Concen: 46.151 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063613.D

Acq: 24 Sep 2020 2:05

Instrument :

MSVOA_N

ClientSampleId :

PB131813TB

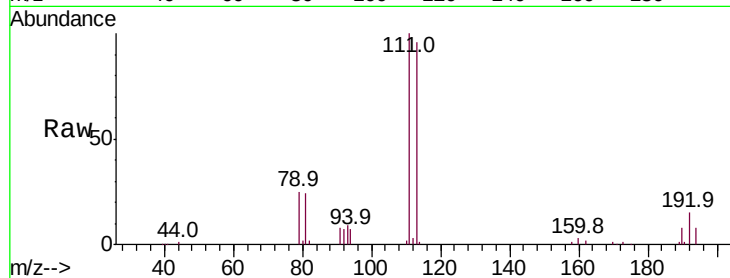
Tot Ion:113 Resp: 124021

Ion Ratio Lower Upper

113 100

111 104.3 82.9 124.3

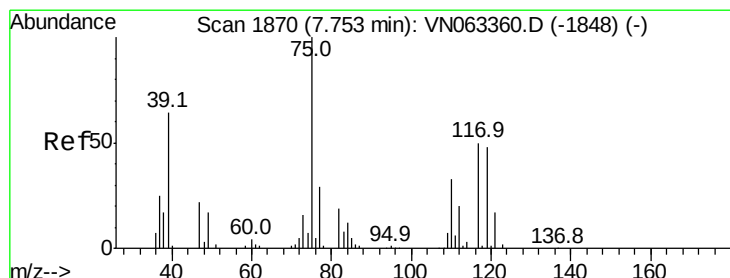
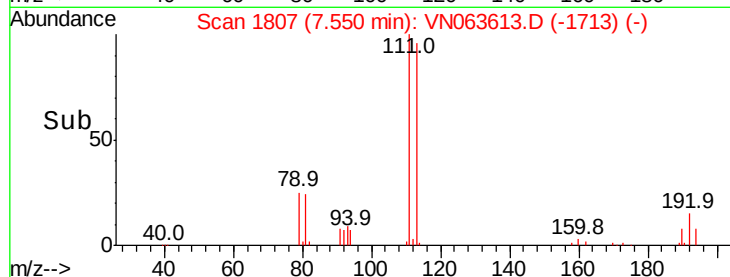
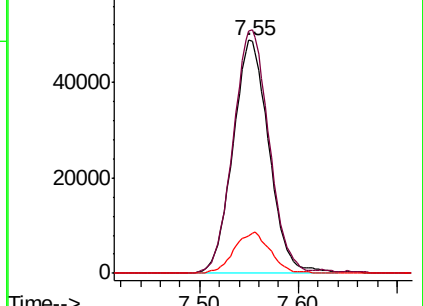
192 17.8 13.9 20.9



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: 4.459 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. -0.12 min

Lab File: VN063613.D

Acq: 24 Sep 2020 2:05

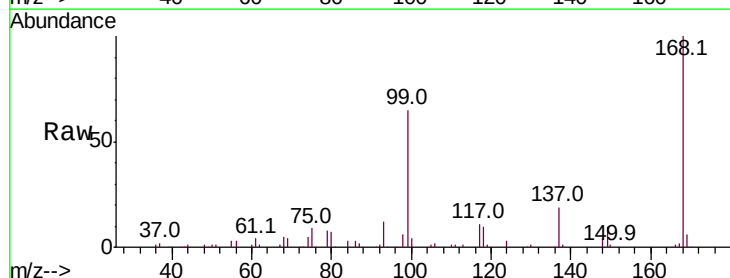
Tgt Ion: 75 Resp: 18439

Ion Ratio Lower Upper

75 100

110 9.8 16.5 49.5#

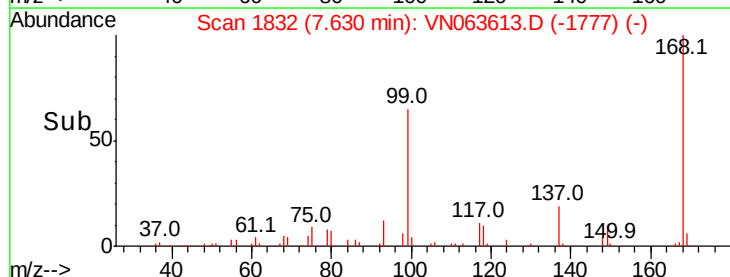
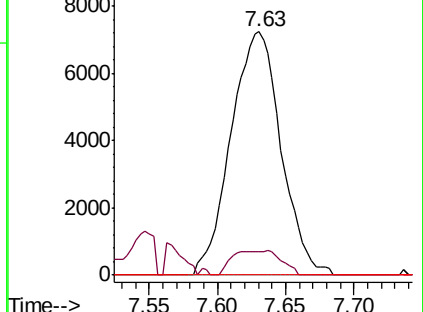
77 0.0 24.6 36.8#

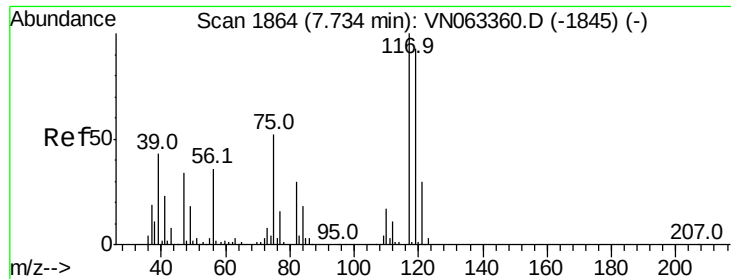


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.274 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. -0.10 min

Lab File: VN063613.D

Acq: 24 Sep 2020 2:05

Instrument :

MSVOA_N

ClientSampleId :

PB131813TB

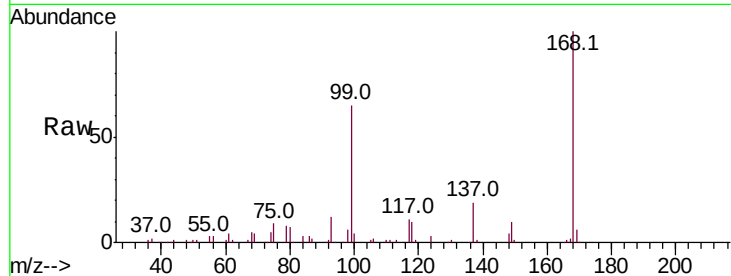
Tot Ion:117 Resp: 22265

Ion Ratio Lower Upper

117 100

119 6.2 74.5 111.7#

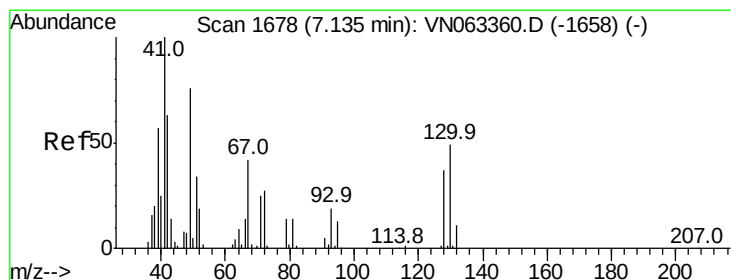
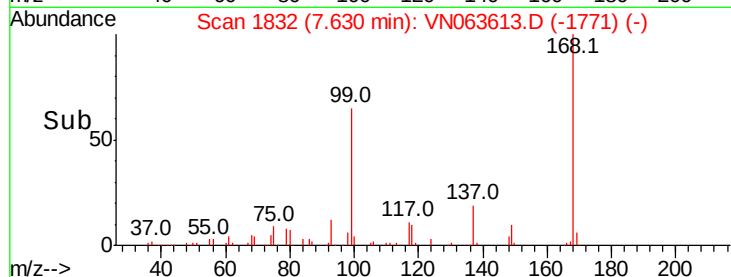
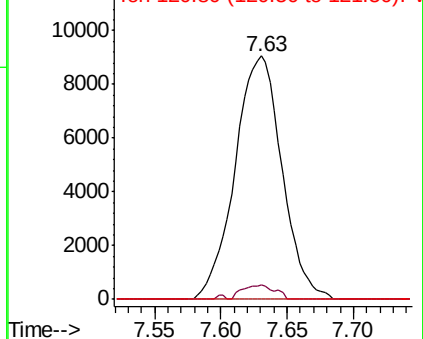
121 0.0 24.1 36.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 0.328 ug/l

RT: 7.16 min Scan# 1687

Delta R.T. 0.03 min

Lab File: VN063613.D

Acq: 24 Sep 2020 2:05

Tgt Ion: 41 Resp: 599

Ion Ratio Lower Upper

41 100

39 50.1 0.0 0.0#

67 0.0 0.0 0.0

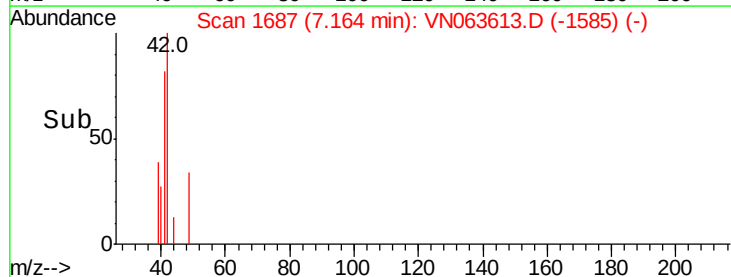
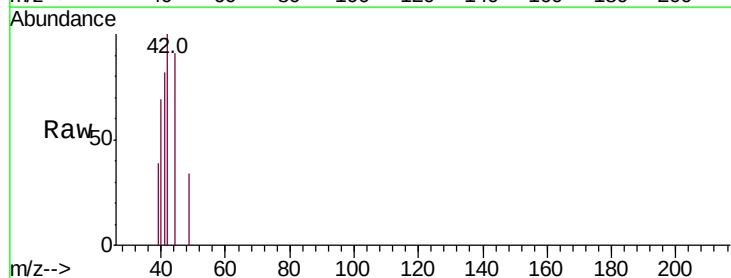
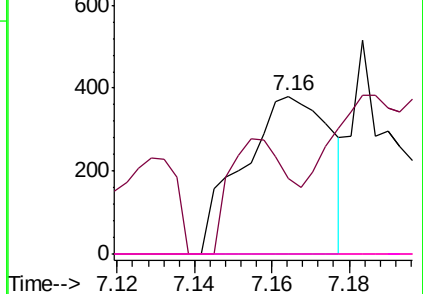
52 0.0 0.0 0.0

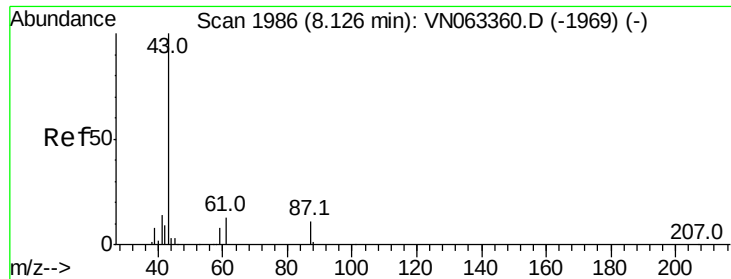
Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO





#43

Isopropyl Acetate

Concen: 10.677 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN063613.D

Acq: 24 Sep 2020 2:05

Instrument :

MSVOA_N

ClientSampleId :

PB131813TB

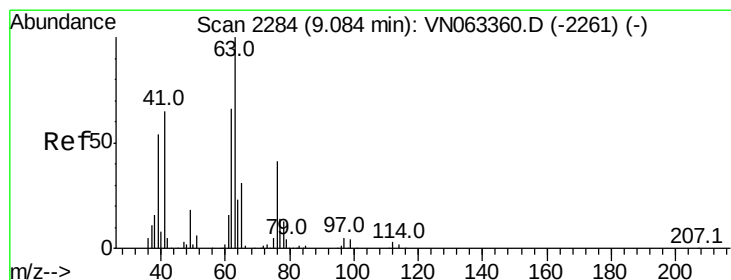
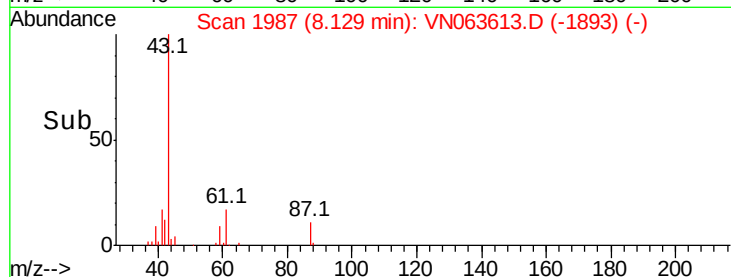
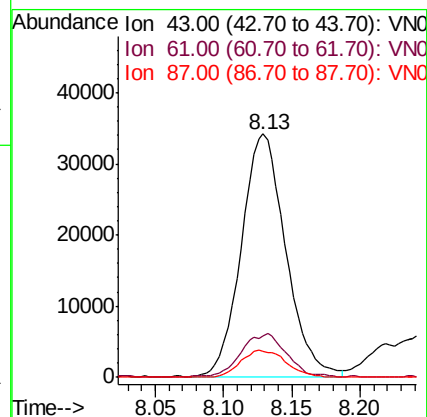
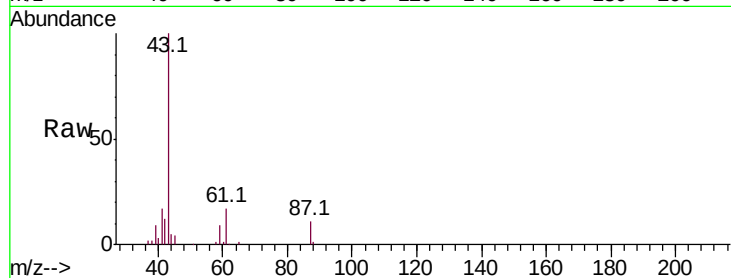
Tot Ion: 43 Resp: 77491

Ion Ratio Lower Upper

43 100

61 18.5 14.2 21.2

87 11.1 9.0 13.6



#45

1,2-Dichloropropane

Concen: 0.556 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN063613.D

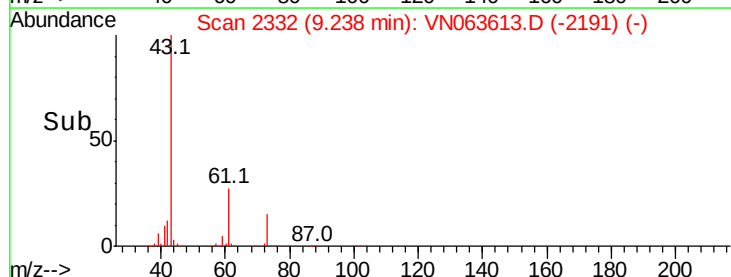
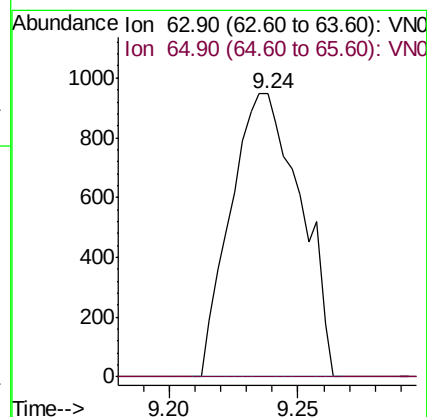
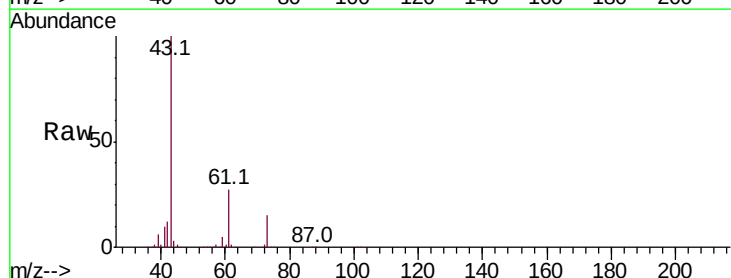
Acq: 24 Sep 2020 2:05

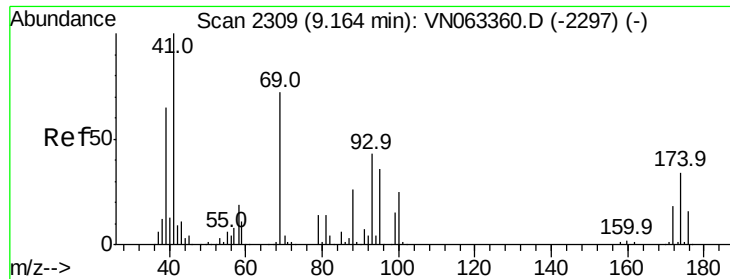
Tgt Ion: 63 Resp: 1788

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.6#

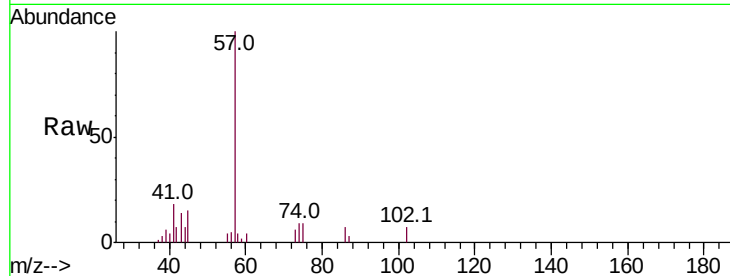




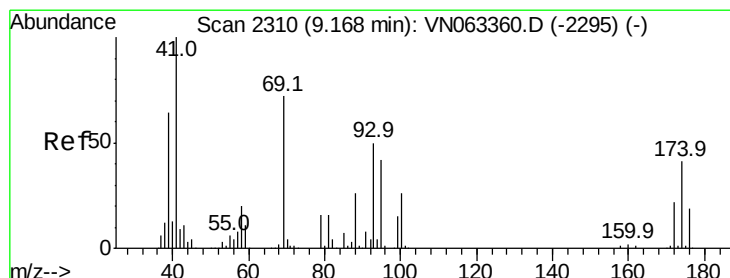
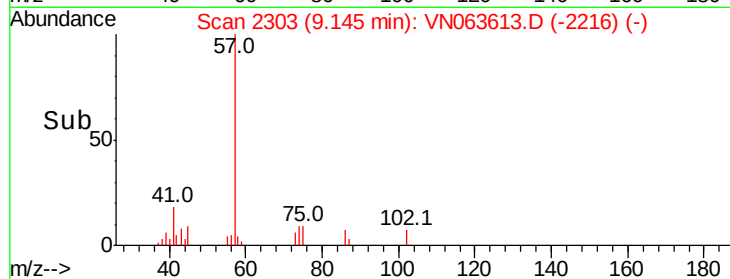
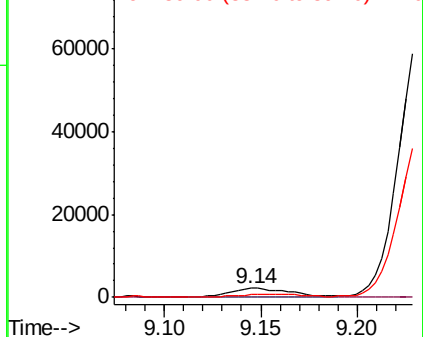
#48
Methyl methacrylate
Concen: 1.372 ug/l
RT: 9.14 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN063613.D
Acq: 24 Sep 2020 2:05

Instrument :
MSVOA_N
ClientSampleId :
PB131813TB

Tot Ion: 41 Resp: 4893
Ion Ratio Lower Upper
41 100
69 0.0 59.3 88.9#
39 0.0 52.9 79.3#

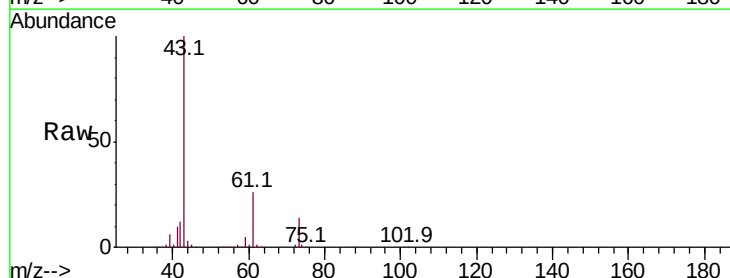


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

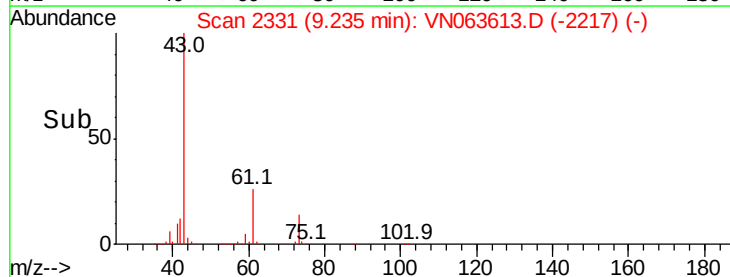
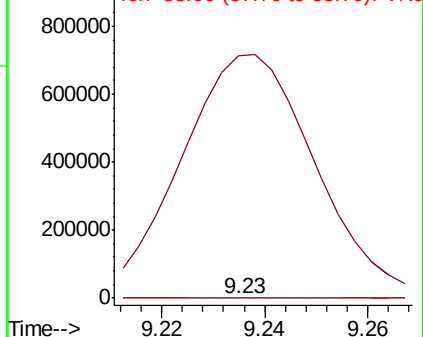


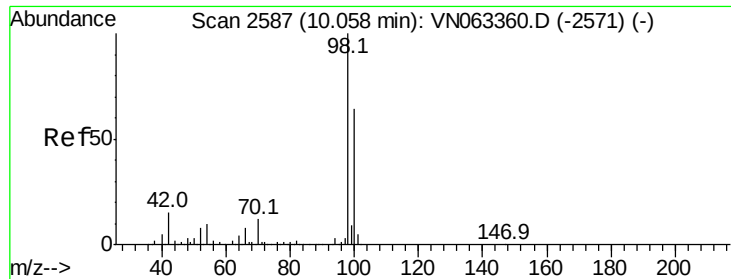
#49
1,4-Dioxane
Concen: 4.026 ug/l
RT: 9.23 min Scan# 2331
Delta R.T. 0.07 min
Lab File: VN063613.D
Acq: 24 Sep 2020 2:05

Tgt Ion: 88 Resp: 206
Ion Ratio Lower Upper
88 100
43 642834.5 32.6 49.0#
58 2899.5 60.0 90.0#



Abundance Ion 88.00 (87.70 to 88.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 58.00 (57.70 to 58.70): VNC





#50

Toluene-d8

Concen: 49.298 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063613.D

Acq: 24 Sep 2020 2:05

Instrument :

MSVOA_N

ClientSampled :

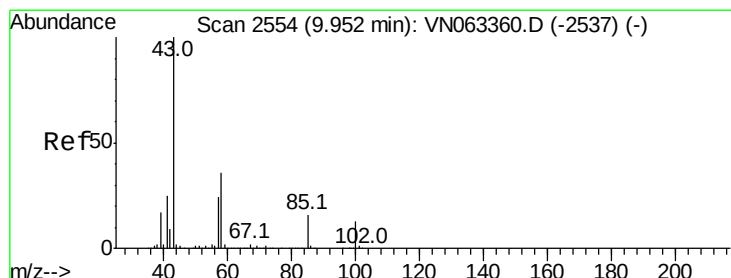
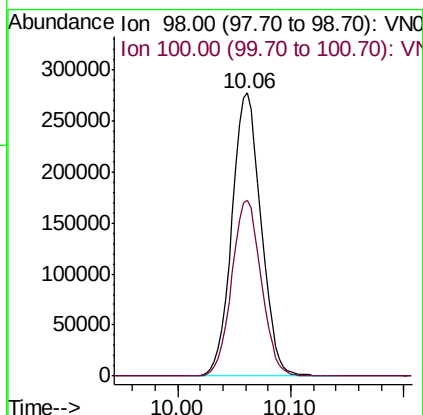
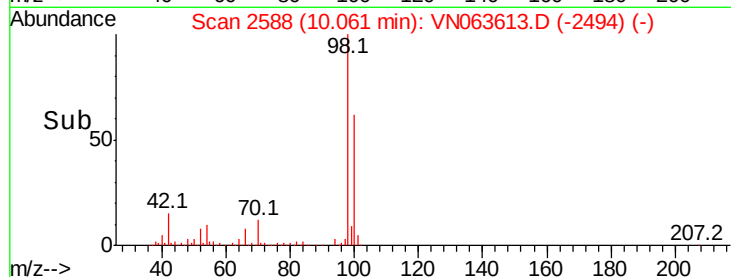
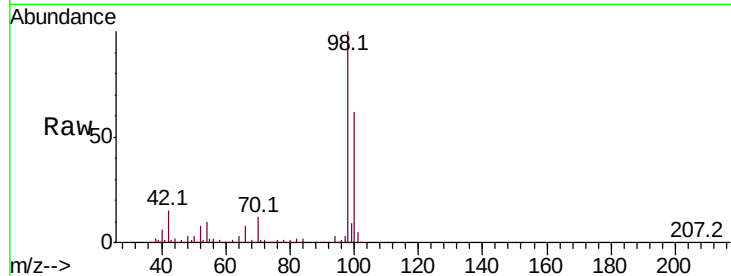
PB131813TB

Tot Ion: 98 Resp: 498146

Ion Ratio Lower Upper

98 100

100 63.0 50.7 76.1



#51

4-Methyl-2-Pentanone

Concen: 2.228 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN063613.D

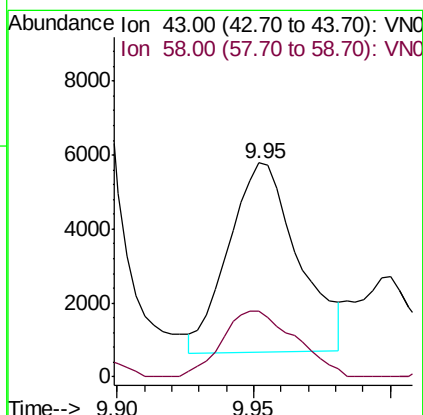
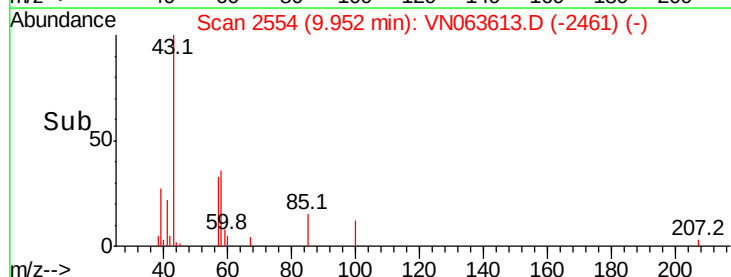
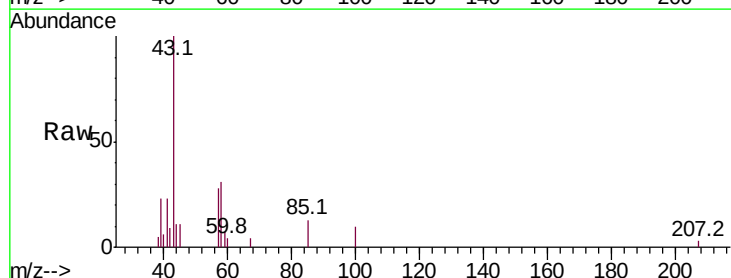
Acq: 24 Sep 2020 2:05

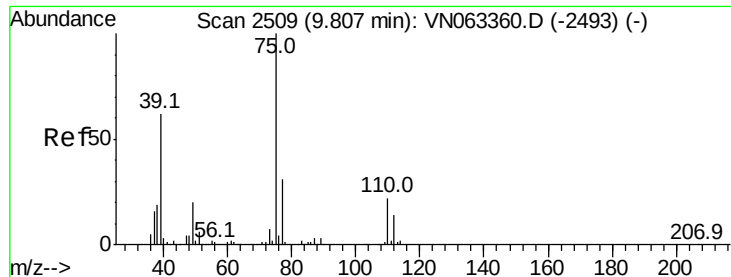
Tgt Ion: 43 Resp: 9051

Ion Ratio Lower Upper

43 100

58 36.9 29.0 43.6





#54

cis-1,3-Dichloropropene

Concen: 6.259 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063613.D

Acq: 24 Sep 2020 2:05

Instrument :

MSVOA_N

ClientSampleId :

PB131813TB

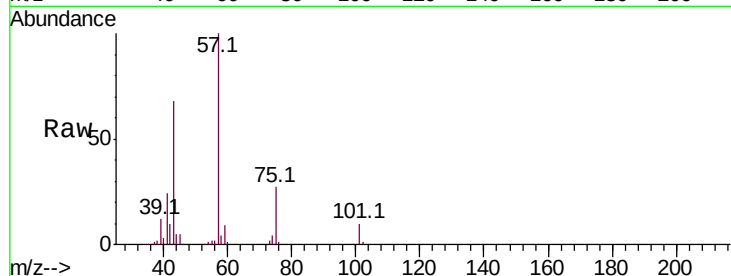
Tot Ion: 75 Resp: 32359

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

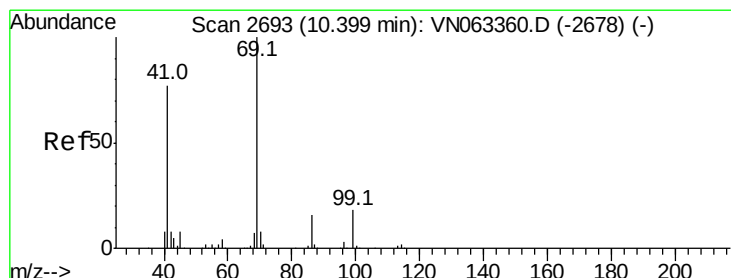
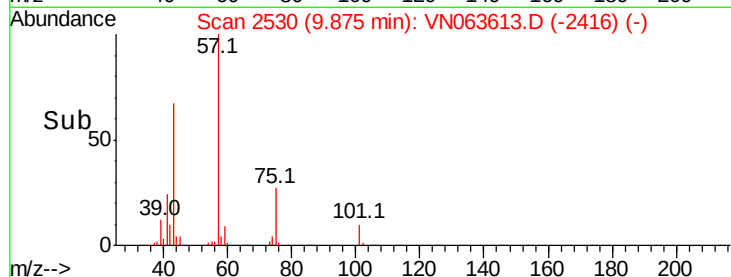
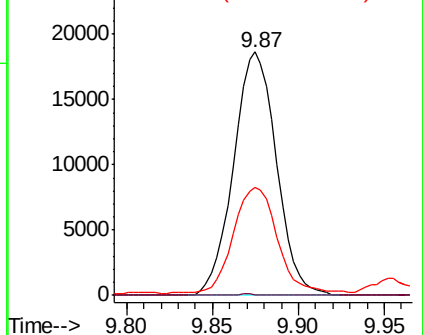
39 43.2 49.8 74.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#56

Ethyl methacrylate

Concen: 0.358 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN063613.D

Acq: 24 Sep 2020 2:05

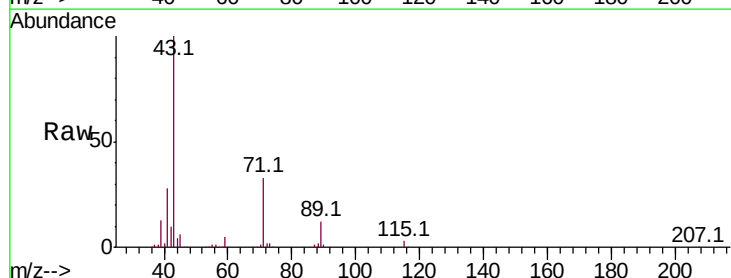
Tgt Ion: 69 Resp: 1576

Ion Ratio Lower Upper

69 100

41 5944.9 61.0 91.6#

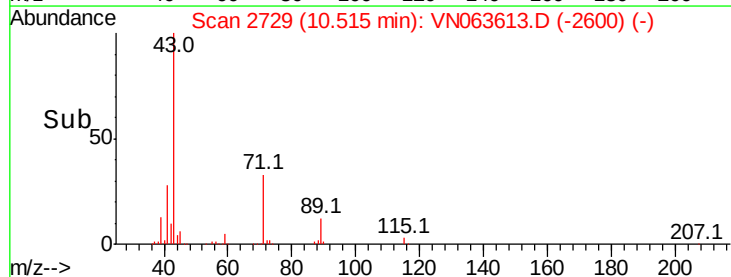
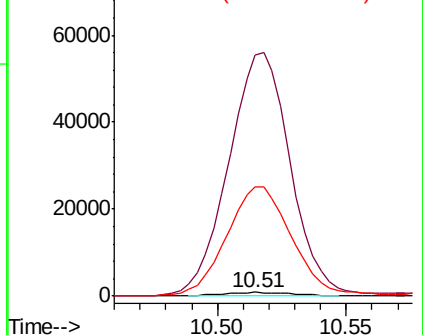
39 2776.5 39.2 58.8#

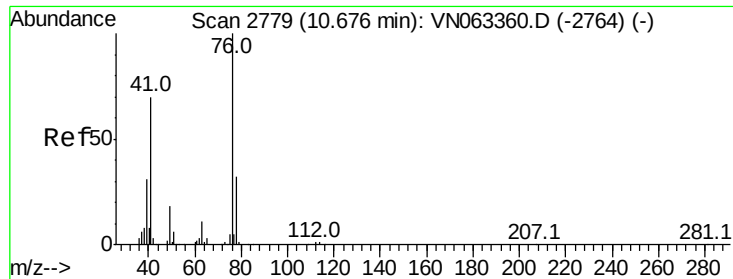


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 1.039 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063613.D

Acq: 24 Sep 2020 2:05

Instrument :

MSVOA_N

ClientSampled :

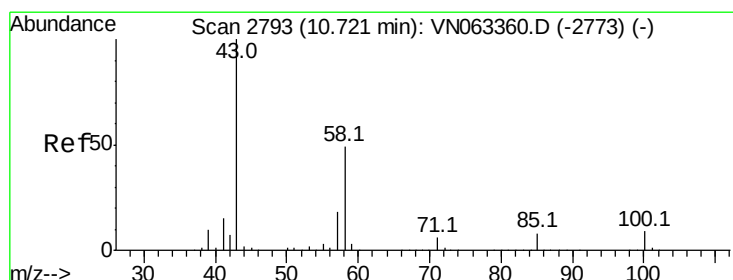
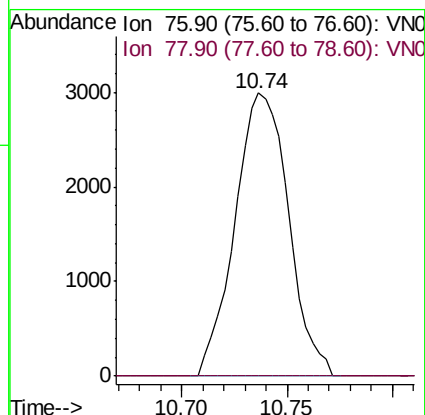
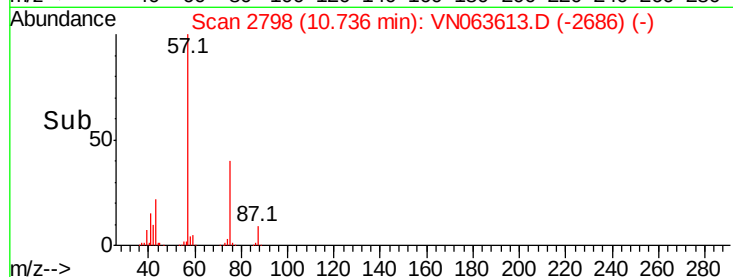
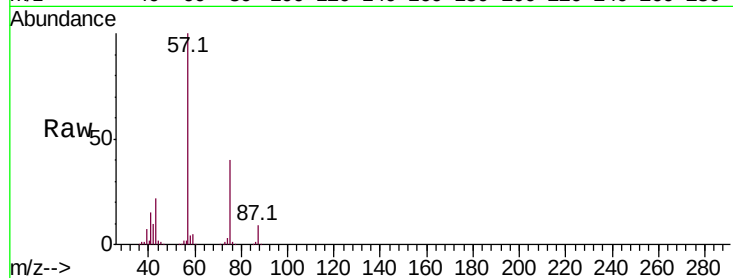
PB131813TB

Tot Ion: 76 Resp: 5282

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 30.272 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063613.D

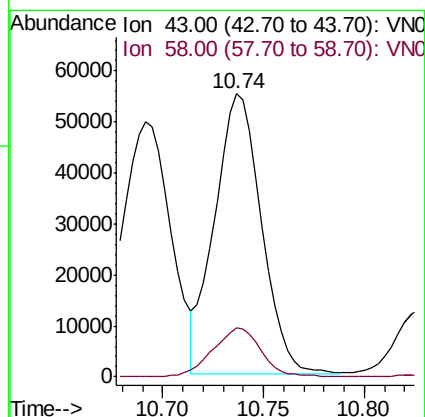
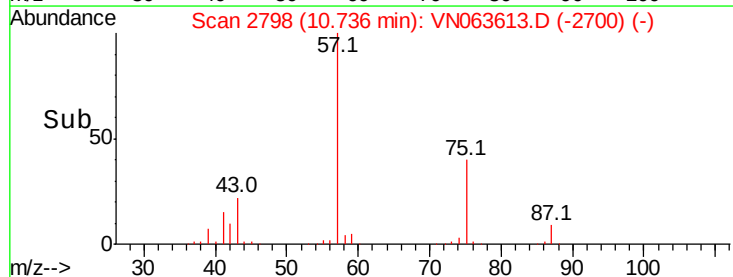
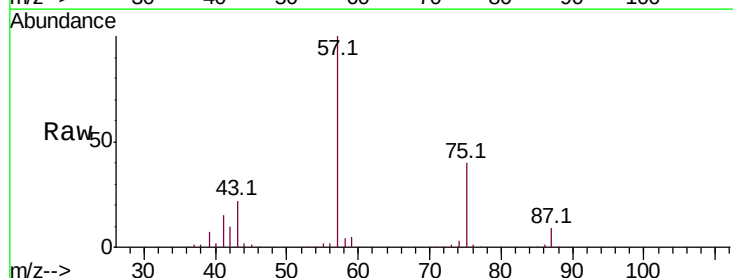
Acq: 24 Sep 2020 2:05

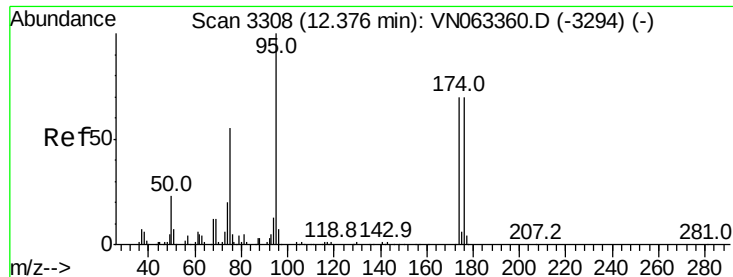
Tgt Ion: 43 Resp: 89108

Ion Ratio Lower Upper

43 100

58 17.9 24.7 74.1#





#62

4-Bromofluorobenzene

Concen: 52.894 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063613.D

Acq: 24 Sep 2020 2:05

Instrument :

MSVOA_N

ClientSampleId :

PB131813TB

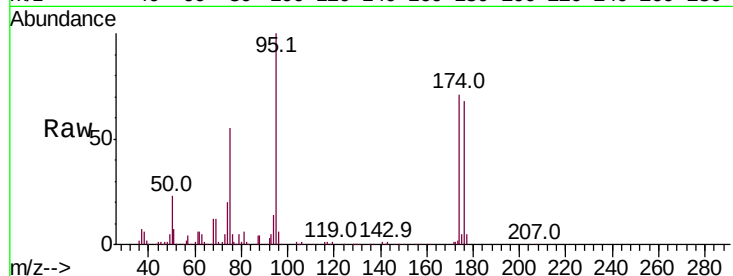
Tot Ion: 95 Resp: 195931

Ion Ratio Lower Upper

95 100

174 71.9 0.0 140.8

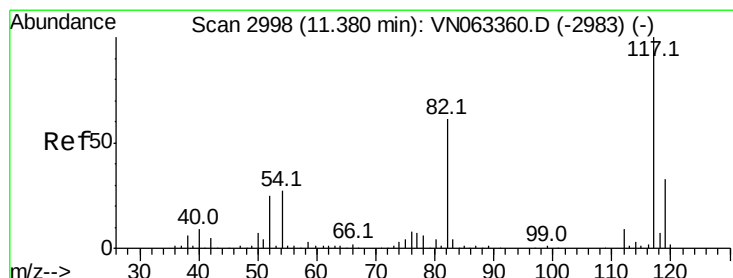
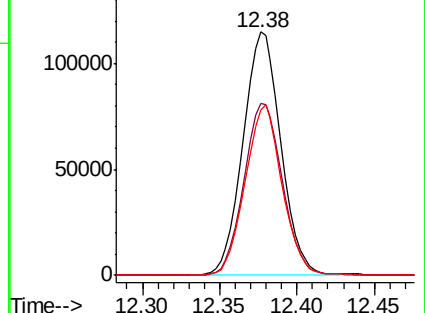
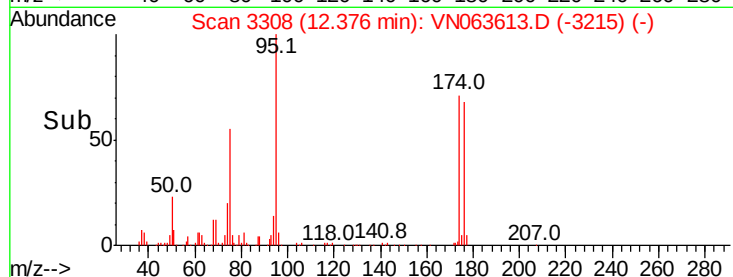
176 68.5 0.0 137.6



Abundance Ion 94.90 (94.60 to 95.60): VN063613.D (-3215) (-)

Ion 173.80 (173.50 to 174.50): VN063613.D (-3215) (-)

Ion 175.80 (175.50 to 176.50): VN063613.D (-3215) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN063613.D

Acq: 24 Sep 2020 2:05

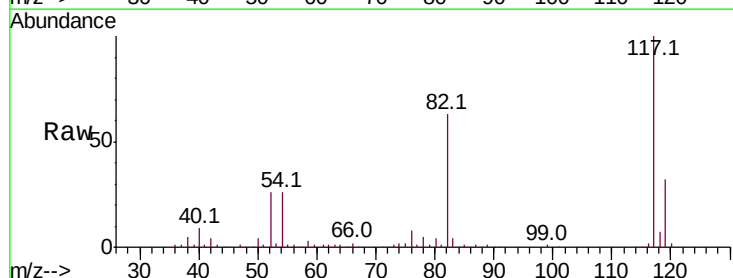
Tgt Ion: 117 Resp: 392345

Ion Ratio Lower Upper

117 100

82 62.9 49.2 73.8

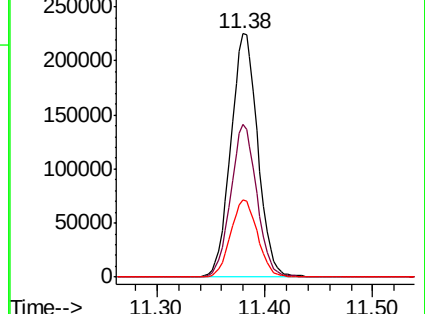
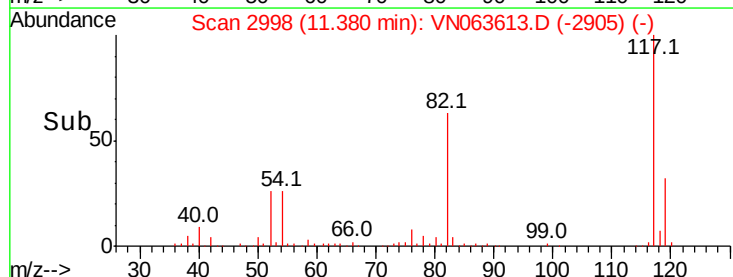
119 31.8 26.2 39.4

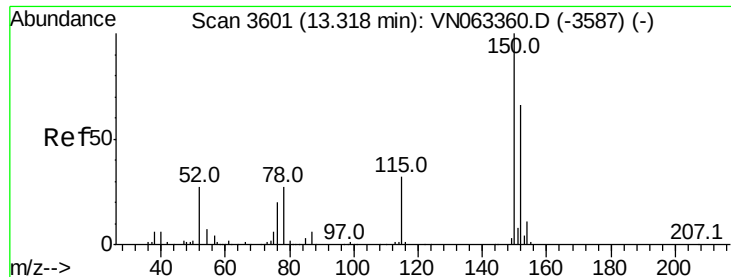


Abundance Ion 116.90 (116.60 to 117.60): VN063613.D (-2905) (-)

Ion 82.00 (81.70 to 82.70): VN063613.D (-2905) (-)

Ion 118.90 (118.60 to 119.60): VN063613.D (-2905) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063613.D

Acq: 24 Sep 2020 2:05

Instrument :

MSVOA_N

ClientSampled :

PB131813TB

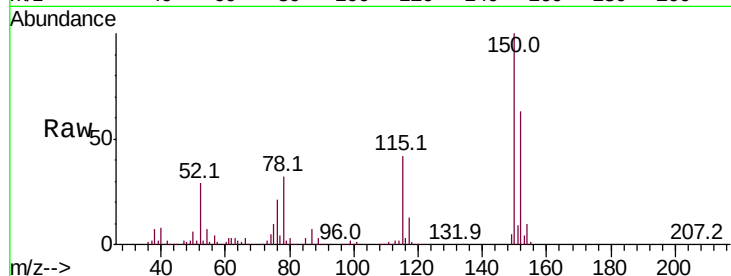
Tot Ion:152 Resp: 163020

Ion Ratio Lower Upper

152 100

115 65.5 32.2 96.6

150 158.8 0.0 343.4

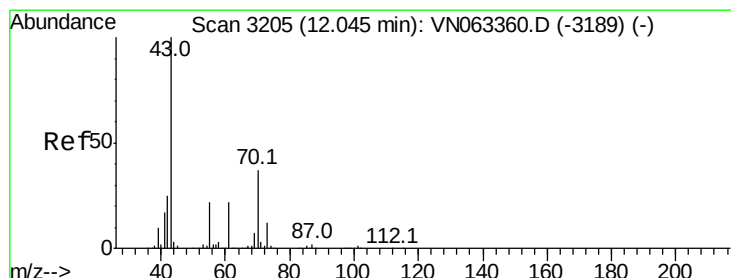
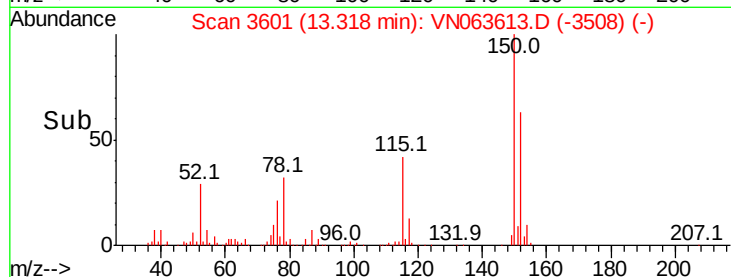
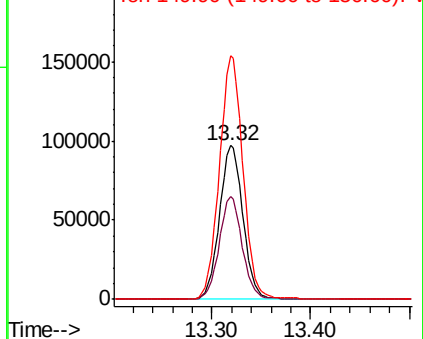


Abundance

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



#74

N-ethyl acetate

Concen: 0.641 ug/l

RT: 12.02 min Scan# 3196

Delta R.T. -0.03 min

Lab File: VN063613.D

Acq: 24 Sep 2020 2:05

Tgt Ion: 43 Resp: 3965

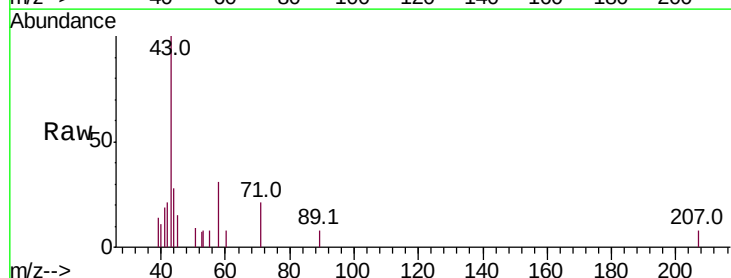
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 5.2 17.7 26.5#

61 0.0 17.4 26.2#



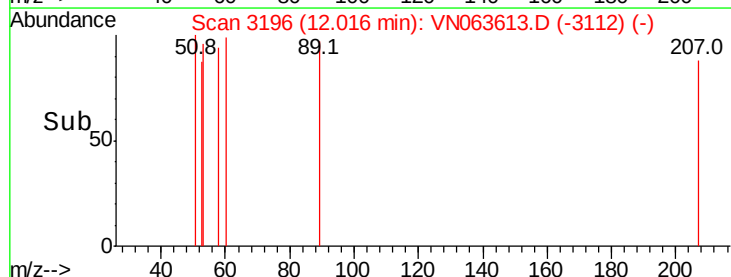
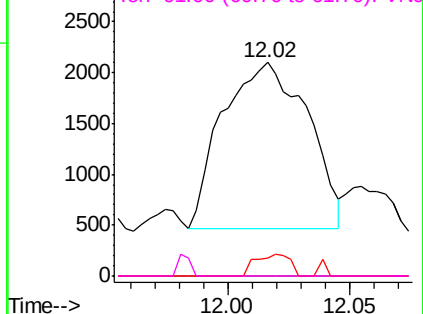
Abundance

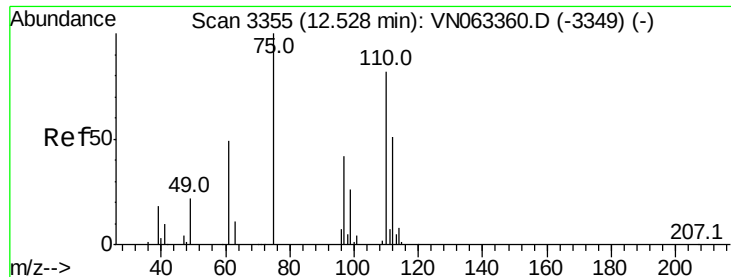
Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0





#76

1,2,3-Trichloropropane

Concen: 26.874 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063613.D

Acq: 24 Sep 2020 2:05

Instrument :

MSVOA_N

ClientSampleId :

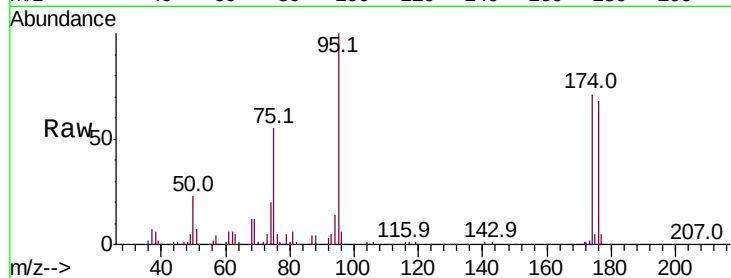
PB131813TB

Tot Ion: 75 Resp: 108434

Ion Ratio Lower Upper

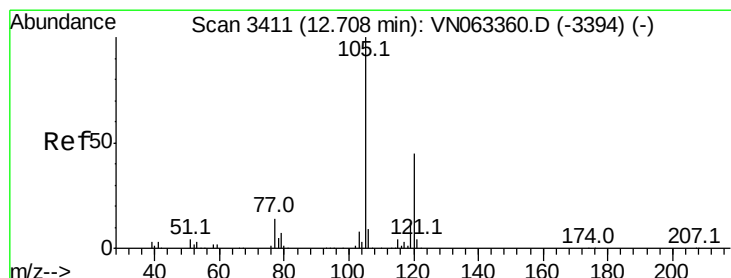
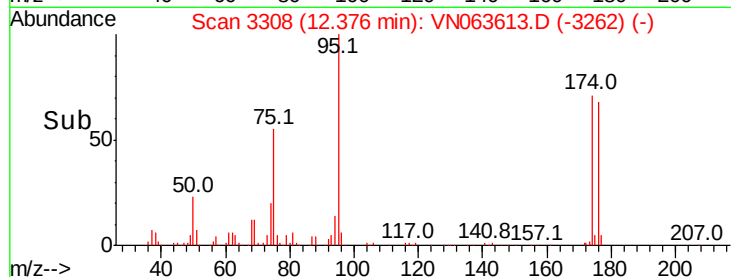
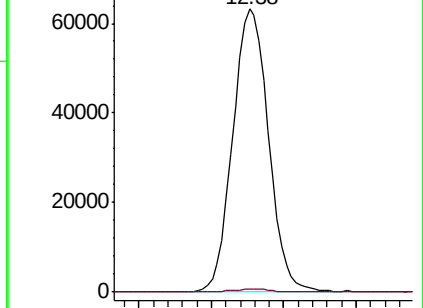
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#80

1,3,5-Trimethylbenzene

Concen: 0.392 ug/l

RT: 12.71 min Scan# 3413

Delta R.T. 0.01 min

Lab File: VN063613.D

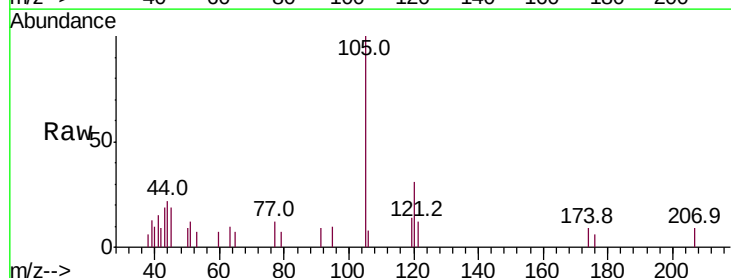
Acq: 24 Sep 2020 2:05

Tgt Ion: 105 Resp: 4273

Ion Ratio Lower Upper

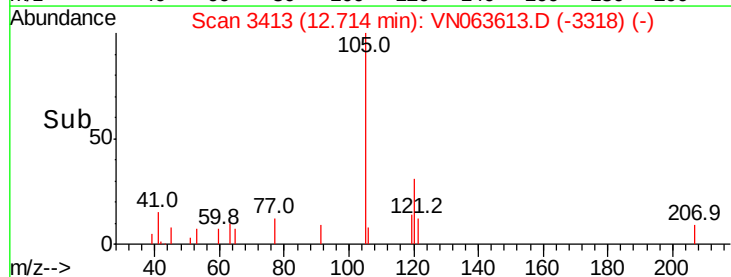
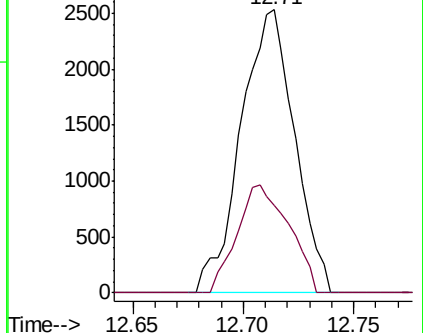
105 100

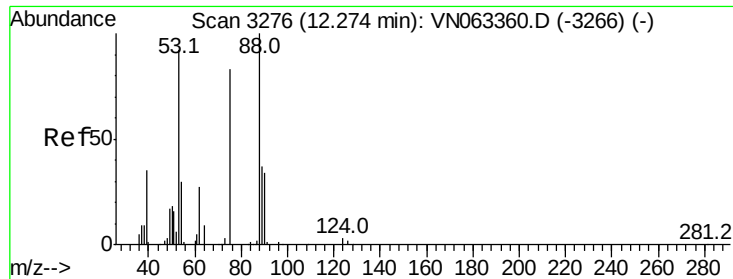
120 36.9 22.9 68.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 73.677 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063613.D

Acq: 24 Sep 2020 2:05

Instrument :

MSVOA_N

ClientSampleId :

PB131813TB

Tot Ion: 75 Resp: 108434

Ion Ratio Lower Upper

75 100

53 0.1 85.7 128.5#

89 0.0 38.0 57.0#

