

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092420\
 Data File : VN063660.D
 Acq On : 25 Sep 2020 5:01
 Operator : JC/MD
 Sample : L4105-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MTB-SP

Quant Time: Sep 25 05:38:14 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	193687	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	379755	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	388271	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	163951	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	175187	53.13	ug/l	0.00
Spiked Amount			Recovery	=	106.26%	
35) Dibromofluoromethane	7.55	113	126418	48.09	ug/l	0.00
Spiked Amount			Recovery	=	96.18%	
50) Toluene-d8	10.06	98	499957	50.58	ug/l	0.00
Spiked Amount			Recovery	=	101.16%	
62) 4-Bromofluorobenzene	12.38	95	189530	52.30	ug/l	0.00
Spiked Amount			Recovery	=	104.60%	

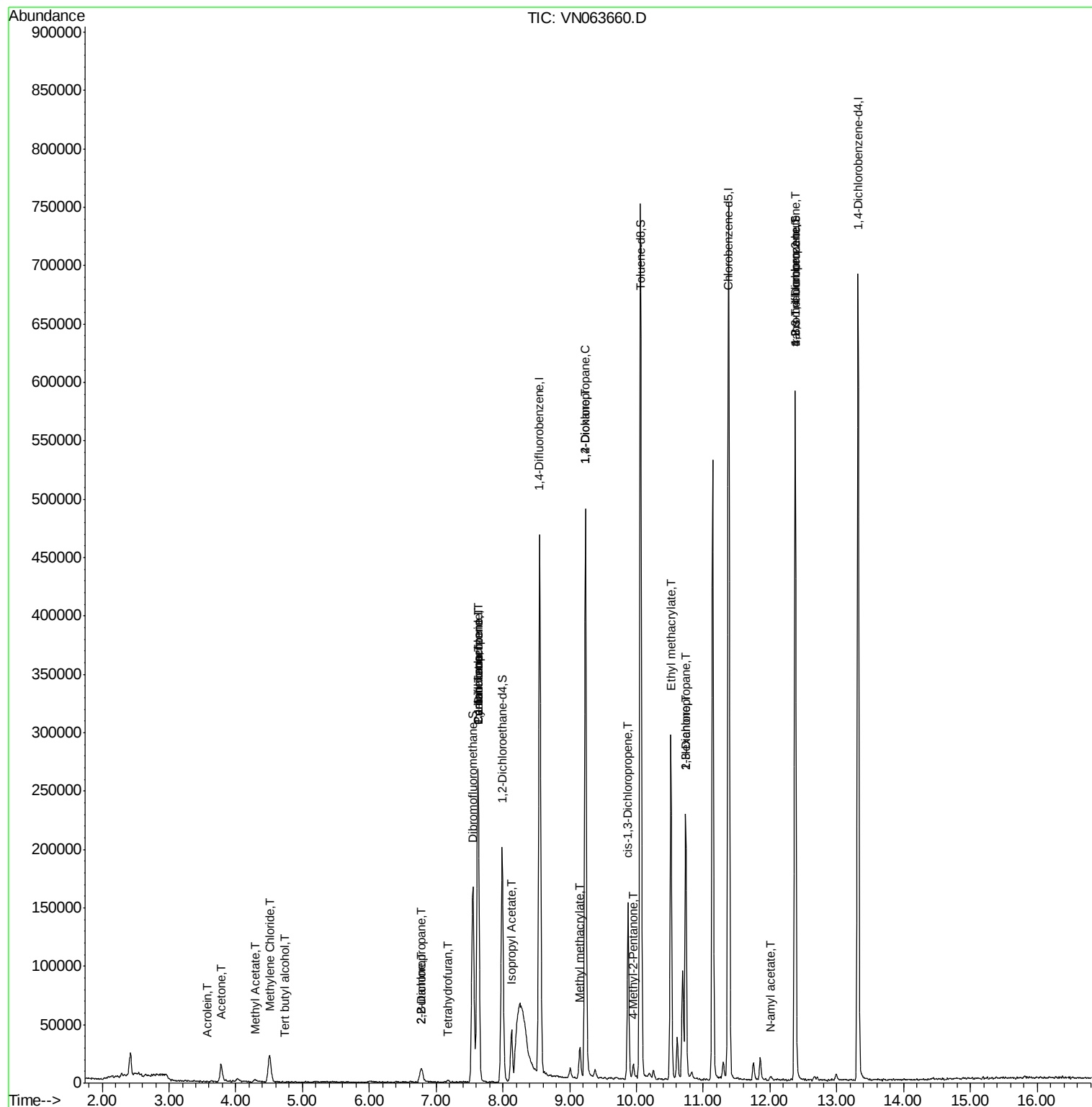
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	147	0.322	ug/l #	72
13) Acrolein	3.57	56	93	0.549	ug/l #	13
16) Acetone	3.78	43	23162	21.859	ug/l	97
18) Methyl Acetate	4.29	43	5012	1.863	ug/l #	76
20) Methylene Chloride	4.51	84	15592	5.808	ug/l	98
25) 2-Butanone	6.79	43	1942	1.192	ug/l	92
26) 2,2-Dichloropropane	6.78	77	896	0.211	ug/l #	55
29) Tetrahydrofuran	7.16	42	562	0.505	ug/l #	47
31) Cyclohexane	7.63	56	6185	1.358	ug/l #	45
36) 1,1-Dichloropropene	7.63	75	17712	4.378	ug/l #	51
38) Carbon Tetrachloride	7.63	117	22606	5.474	ug/l #	18
43) Isopropyl Acetate	8.13	43	52608	7.410	ug/l	100
45) 1,2-Dichloropropane	9.24	63	650	0.207	ug/l #	43
48) Methyl methacrylate	9.14	41	3249	0.931	ug/l #	15
49) 1,4-Dioxane	9.23	88	61	1.219	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	8597	2.163	ug/l	97
54) cis-1,3-Dichloropropene	9.87	75	24489	4.842	ug/l #	68
56) Ethyl methacrylate	10.51	69	1514	0.352	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	2477	0.498	ug/l #	42
59) 2-Hexanone	10.74	43	35007	12.157	ug/l #	57
74) N-amyl acetate	12.01	43	2933	0.472	ug/l #	47
76) 1,2,3-Trichloropropane	12.38	75	109912	27.085	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	109912	74.257	ug/l #	7

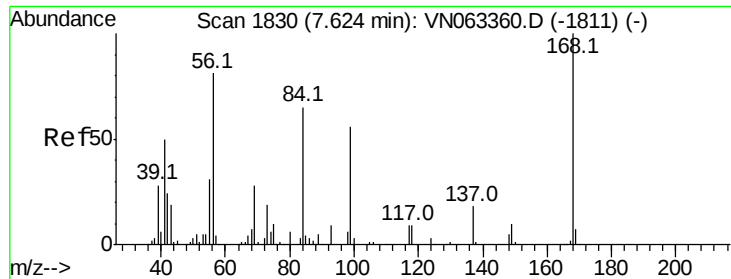
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN092420\
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Quant Time: Sep 25 05:38:14 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: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063660.D

Acq: 25 Sep 2020 5:01

Instrument :

MSVOA_N

ClientSampleId :

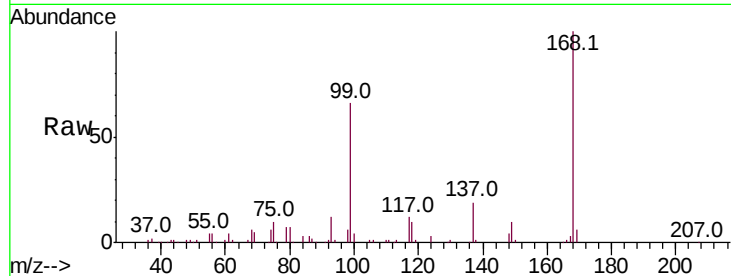
MTB-SP

Tot Ion:168 Resp: 193687

Ion Ratio Lower Upper

168 100

99 66.0 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): VN063660.D (-1811) (-)

Ion 98.90 (98.60 to 99.60): VN063660.D (-1811) (-)

7.63

80000

60000

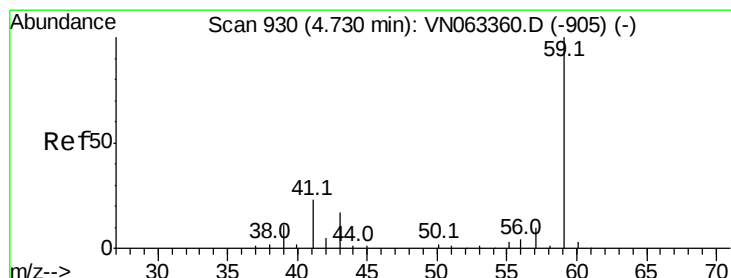
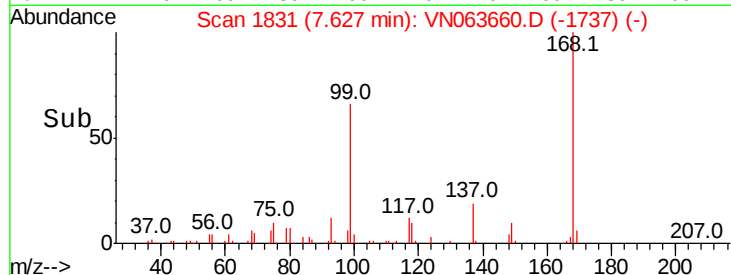
40000

20000

0

7.50 7.60 7.70

Time-->



#11

Tert butyl alcohol

Concen: 0.322 ug/l

RT: 4.73 min Scan# 930

Delta R.T. -0.00 min

Lab File: VN063660.D

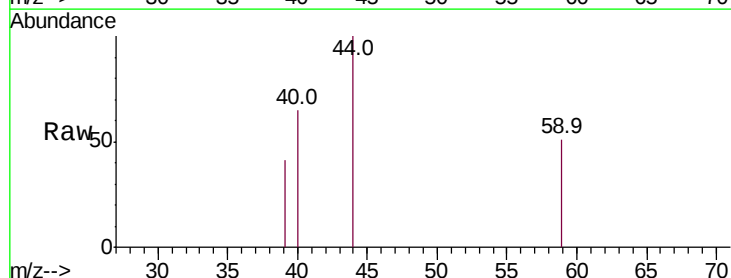
Acq: 25 Sep 2020 5:01

Tgt Ion: 59 Resp: 147

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN063660.D (-905) (-)

Ion 57.00 (56.70 to 57.70): VN063660.D (-905) (-)

4.73

250

200

150

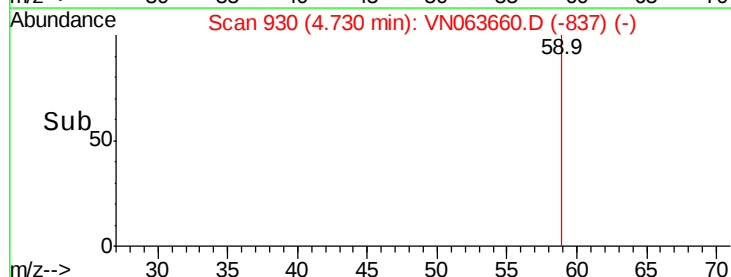
100

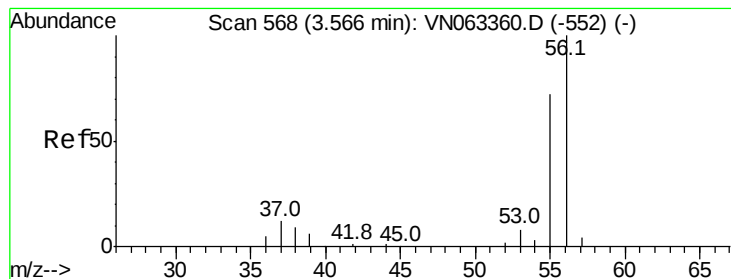
50

0

4.71 4.72 4.73 4.74 4.75

Time-->





#13

Acrolein

Concen: 0.549 ug/l

RT: 3.57 min Scan# 568

Delta R.T. 0.00 min

Lab File: VN063660.D

Acq: 25 Sep 2020 5:01

Instrument :

MSVOA_N

ClientSampleId :

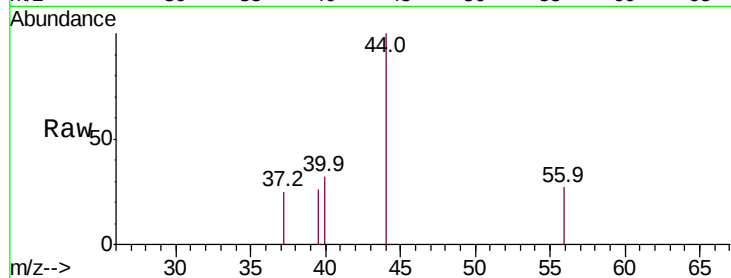
MTB-SP

Tot Ion: 56 Resp: 93

Ion Ratio Lower Upper

56 100

55 0.0 58.2 87.2#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.57

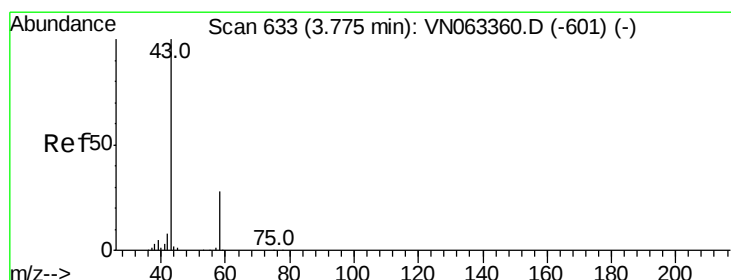
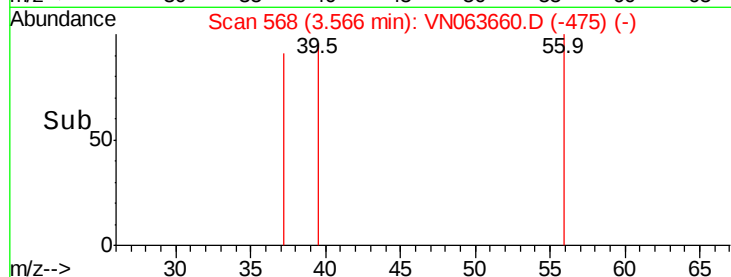
150

100

50

0

Time-->



#16

Acetone

Concen: 21.859 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063660.D

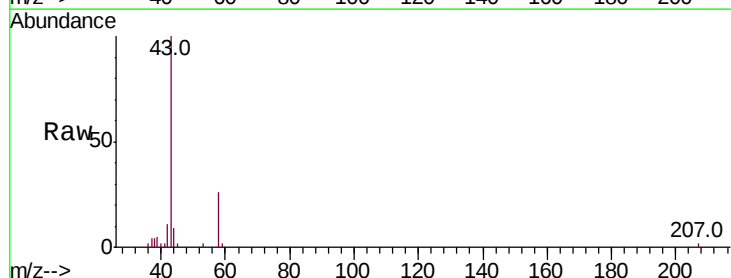
Acq: 25 Sep 2020 5:01

Tgt Ion: 43 Resp: 23162

Ion Ratio Lower Upper

43 100

58 26.4 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10000

8000

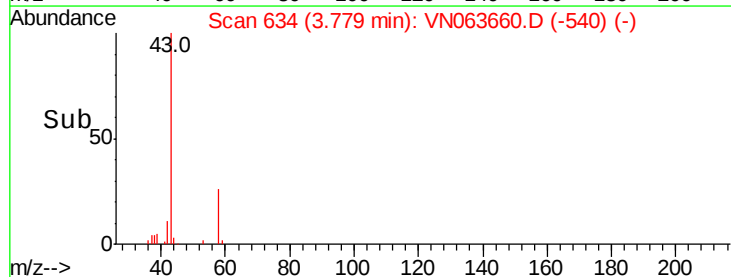
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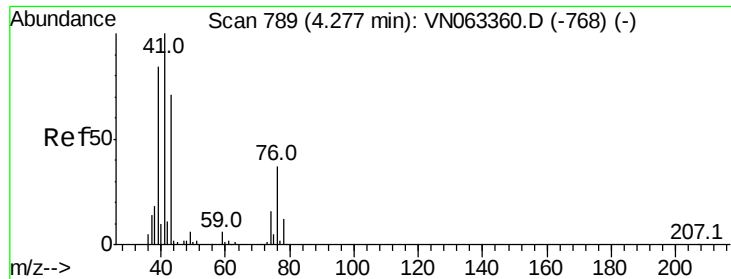
4000

2000

0

Time-->

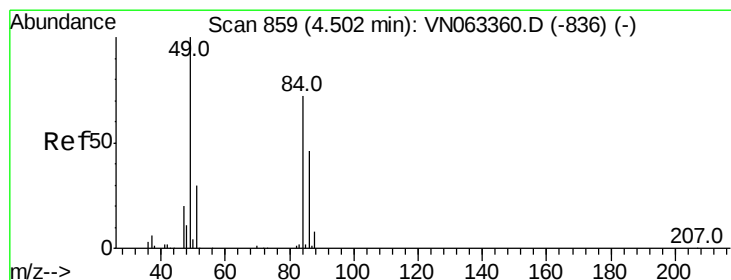
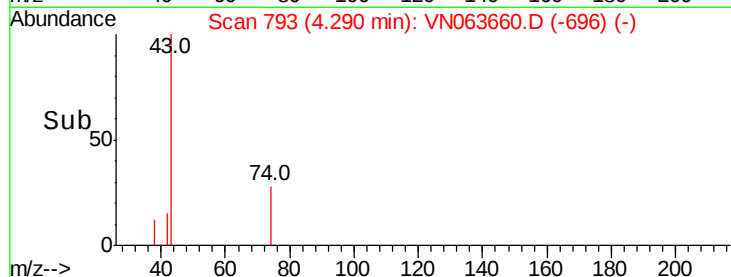
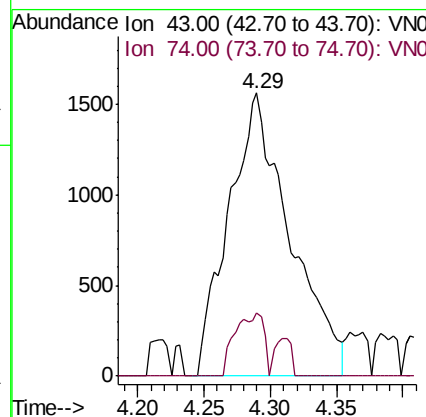
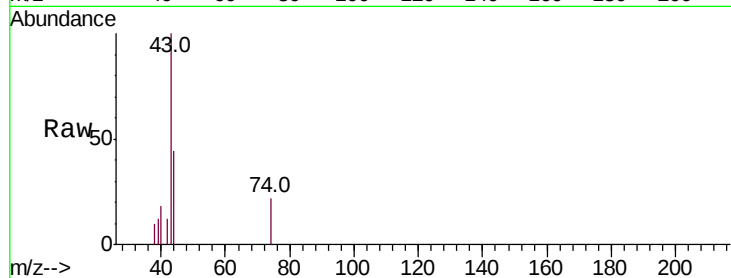




#18
Methyl Acetate
Concen: 1.863 ug/l
RT: 4.29 min Scan# 793
Delta R.T. 0.01 min
Lab File: VN063660.D
Acq: 25 Sep 2020 5:01

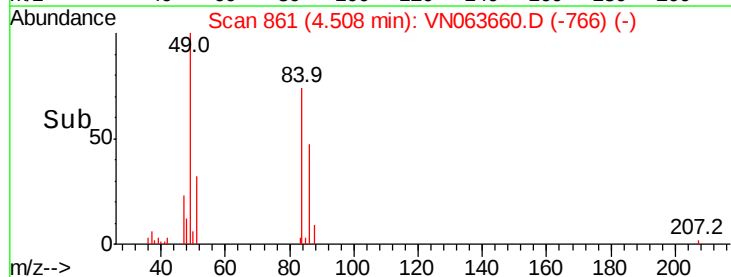
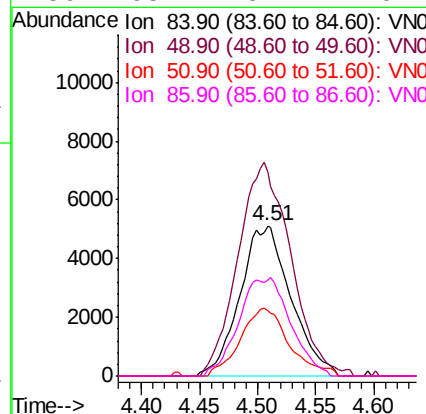
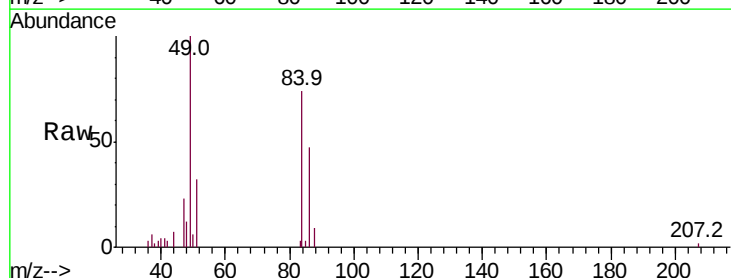
Instrument :
MSVOA_N
ClientSampleId :
MTB-SP

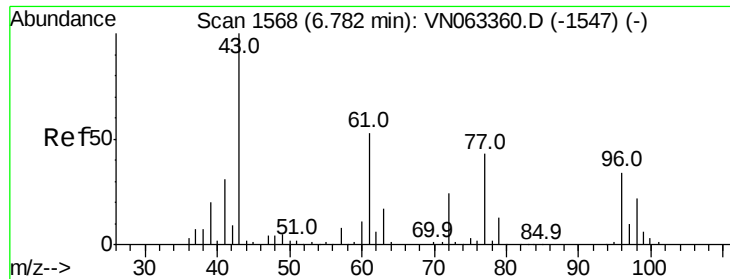
Tot Ion: 43 Resp: 5012
Ion Ratio Lower Upper
43 100
74 10.4 17.4 26.2#



#20
Methylene Chloride
Concen: 5.808 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.01 min
Lab File: VN063660.D
Acq: 25 Sep 2020 5:01

Tgt Ion: 84 Resp: 15592
Ion Ratio Lower Upper
84 100
49 135.3 110.7 166.1
51 43.6 32.9 49.3
86 63.7 51.1 76.7

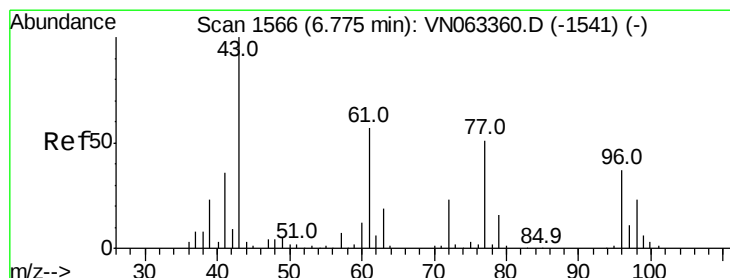
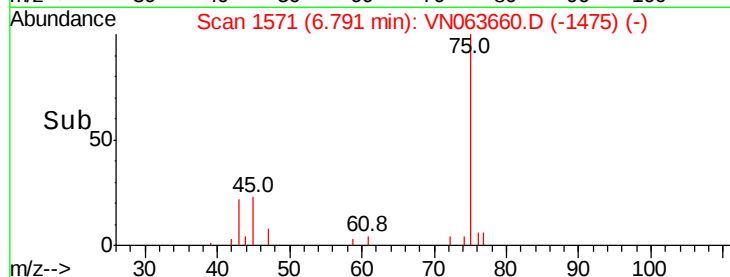
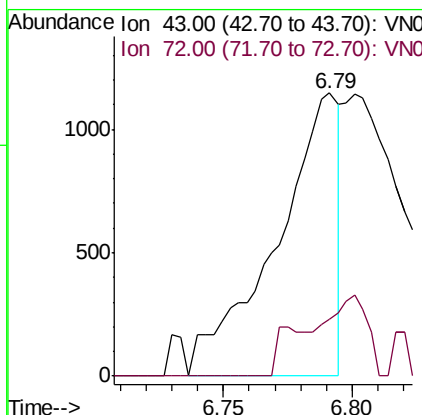
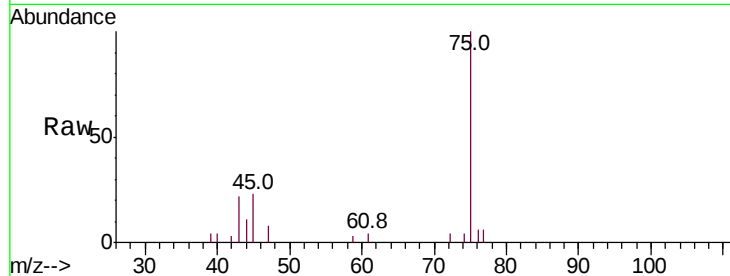




#25
2-Butanone
Concen: 1.192 ug/l
RT: 6.79 min Scan# 1571
Delta R.T. 0.01 min
Lab File: VN063660.D
Acq: 25 Sep 2020 5:01

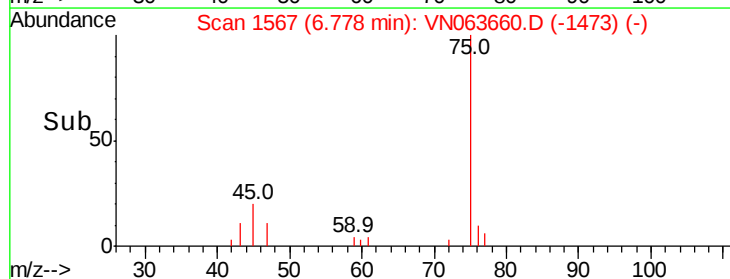
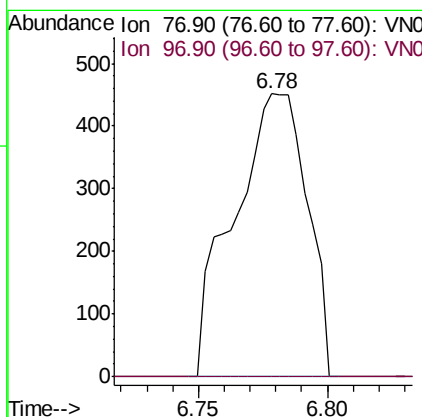
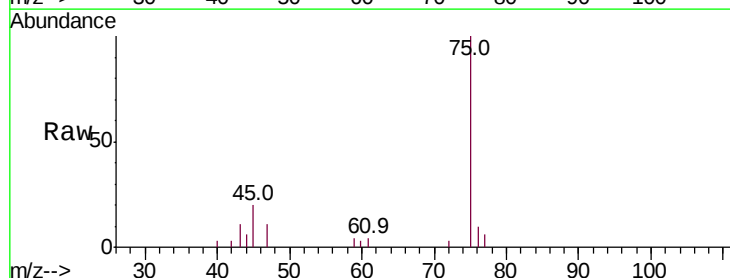
Instrument :
MSVOA_N
ClientSampled :
MTB-SP

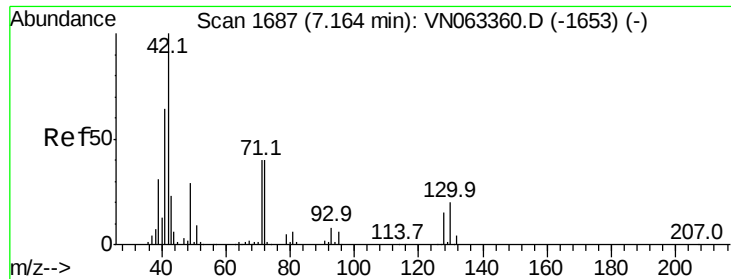
Tot Ion: 43 Resp: 1942
Ion Ratio Lower Upper
43 100
72 20.0 19.2 28.8



#26
2,2-Dichloropropane
Concen: 0.211 ug/l
RT: 6.78 min Scan# 1567
Delta R.T. 0.00 min
Lab File: VN063660.D
Acq: 25 Sep 2020 5:01

Tgt Ion: 77 Resp: 896
Ion Ratio Lower Upper
77 100
97 0.0 10.5 31.6#

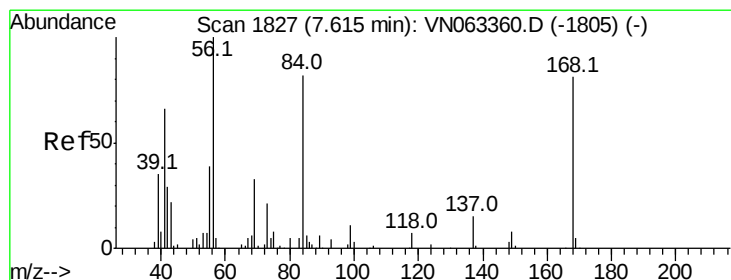
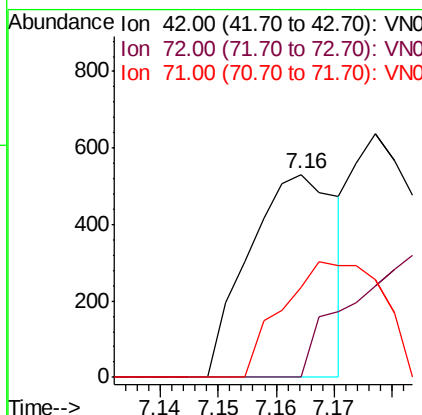
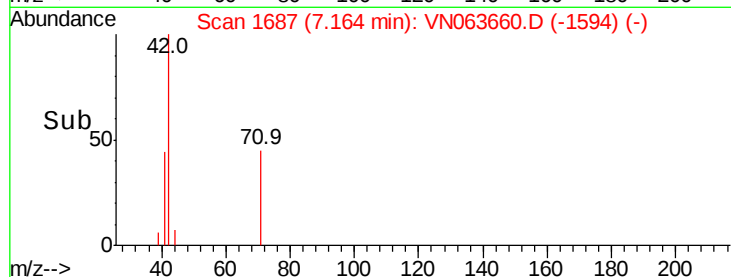
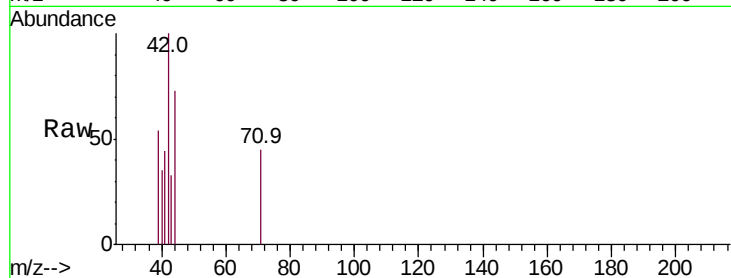




#29
Tetrahydrofuran
Concen: 0.505 ug/l
RT: 7.16 min Scan# 1687
Delta R.T. -0.00 min
Lab File: VN063660.D
Acq: 25 Sep 2020 5:01

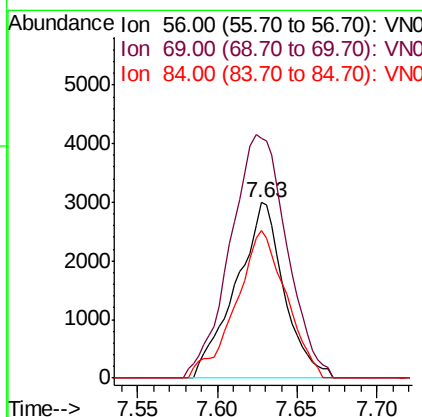
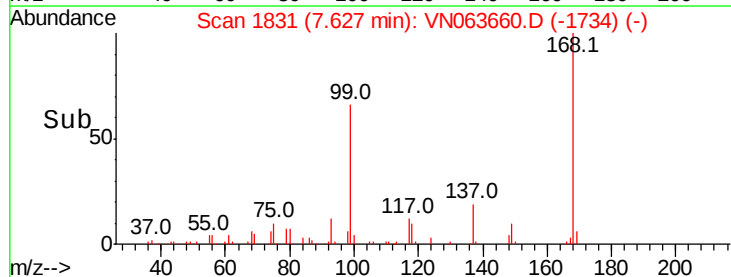
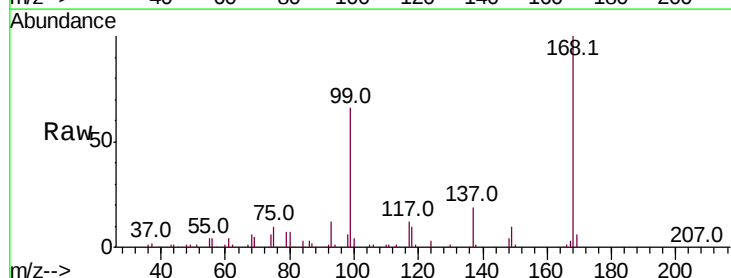
Instrument :
MSVOA_N
ClientSampled :
MTB-SP

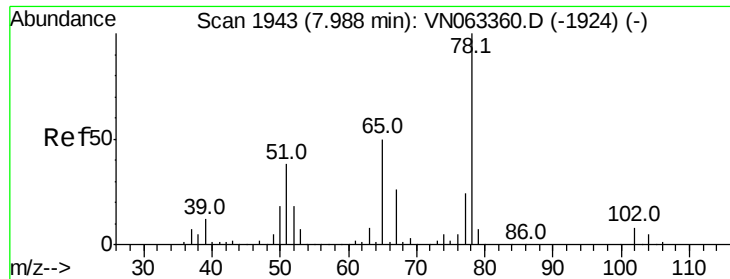
Tot Ion: 42 Resp: 562
Ion Ratio Lower Upper
42 100
72 0.0 32.1 48.1#
71 64.2 31.2 46.8#



#31
Cyclohexane
Concen: 1.358 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN063660.D
Acq: 25 Sep 2020 5:01

Tgt Ion: 56 Resp: 6185
Ion Ratio Lower Upper
56 100
69 137.1 26.1 39.1#
84 84.2 65.4 98.2

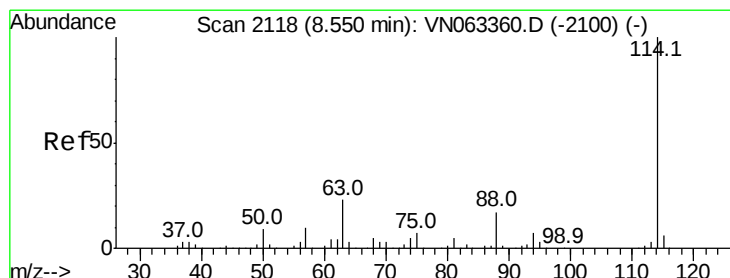
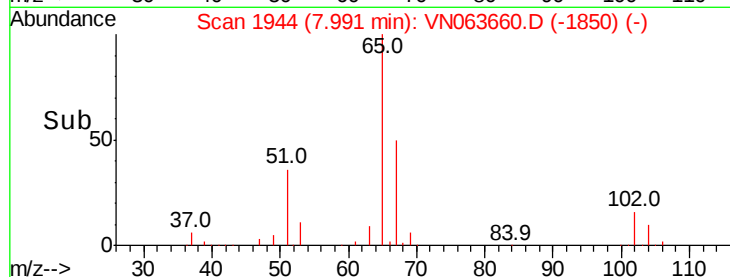
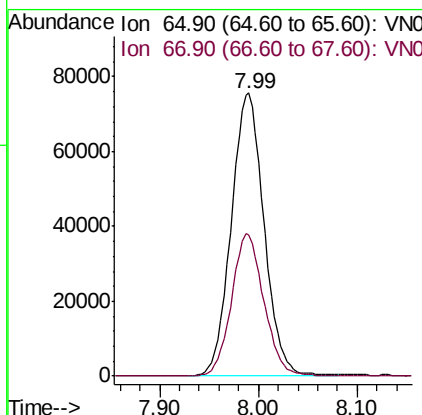
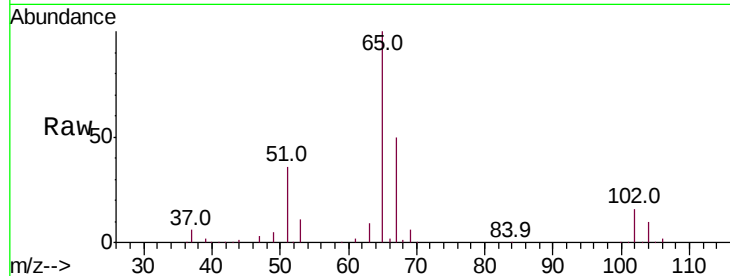




#33
 1,2-Dichloroethane-d4
 Concen: 53.134 ug/l
 RT: 7.99 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN063660.D
 Acq: 25 Sep 2020 5:01

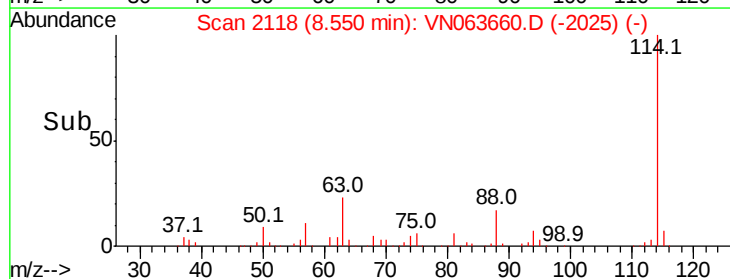
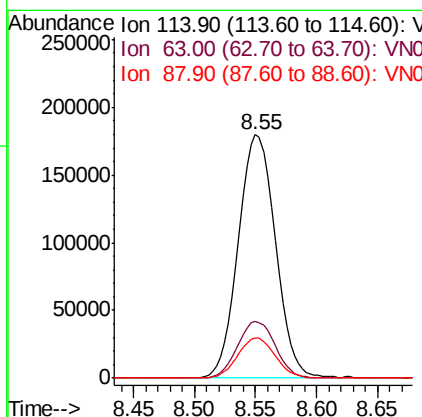
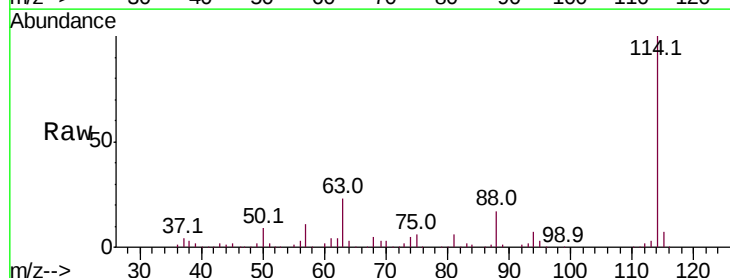
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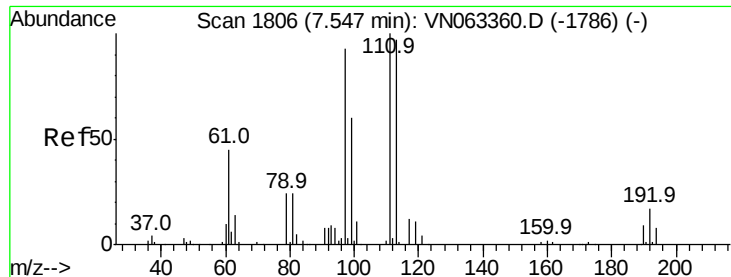
Tot Ion: 65 Resp: 175187
 Ion Ratio Lower Upper
 65 100
 67 49.7 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063660.D
 Acq: 25 Sep 2020 5:01

Tgt Ion: 114 Resp: 379755
 Ion Ratio Lower Upper
 114 100
 63 23.3 0.0 46.4
 88 16.7 0.0 33.2

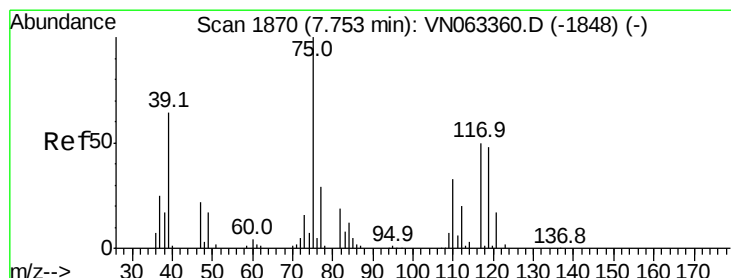
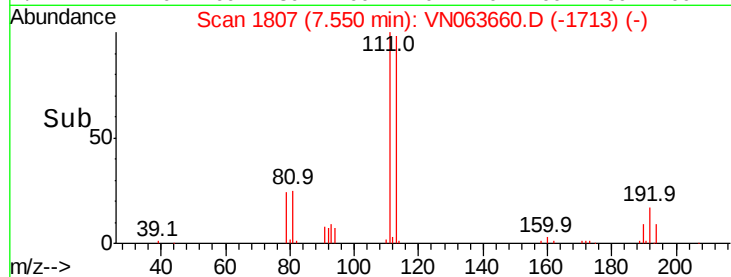
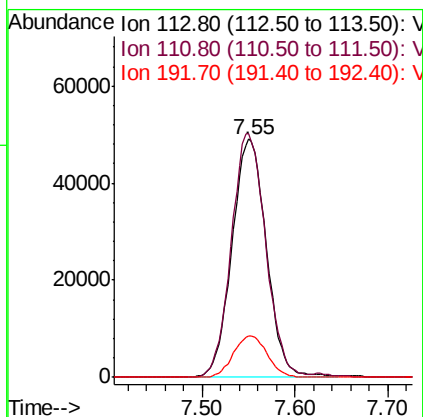
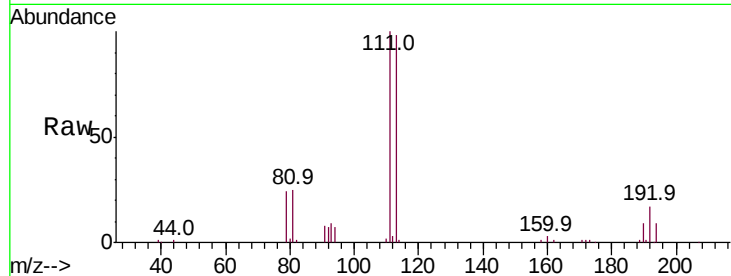




#35
 Dibromofluoromethane
 Concen: 48.087 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063660.D
 Acq: 25 Sep 2020 5:01

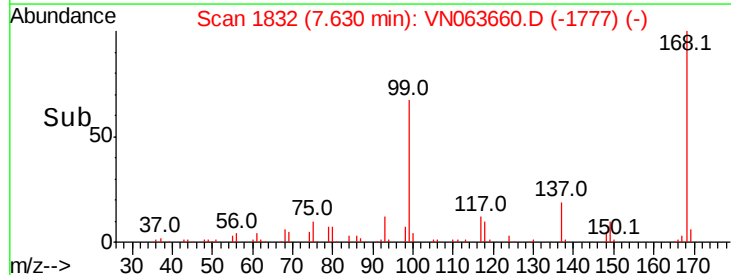
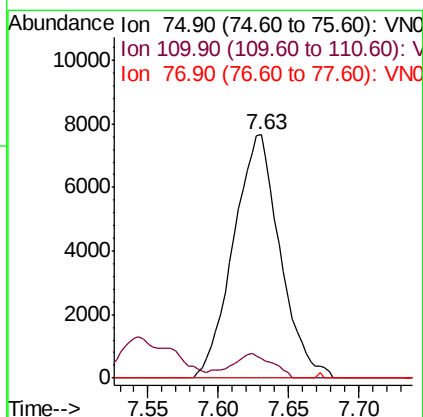
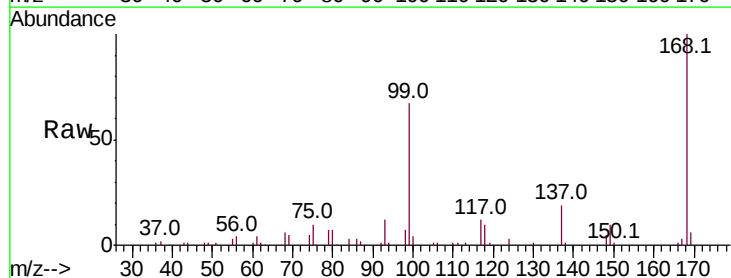
Instrument :
 MSVOA_N
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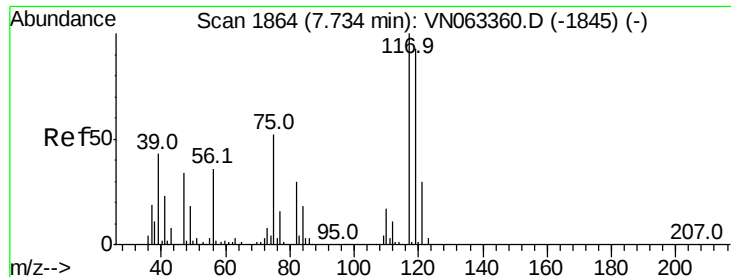
Tot Ion:113 Resp: 126418
 Ion Ratio Lower Upper
 113 100
 111 102.1 82.9 124.3
 192 17.2 13.9 20.9



#36
 1,1-Dichloropropene
 Concen: 4.378 ug/l
 RT: 7.63 min Scan# 1832
 Delta R.T. -0.12 min
 Lab File: VN063660.D
 Acq: 25 Sep 2020 5:01

Tgt Ion: 75 Resp: 17712
 Ion Ratio Lower Upper
 75 100
 110 8.9 16.5 49.5#
 77 0.0 24.6 36.8#

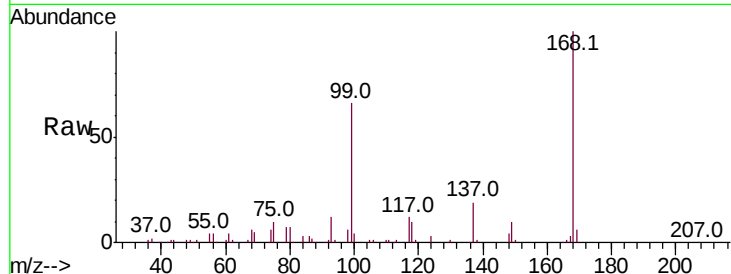




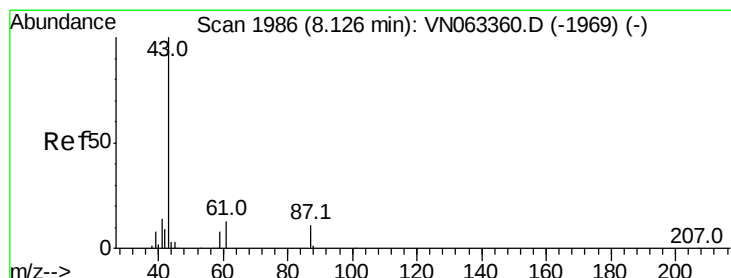
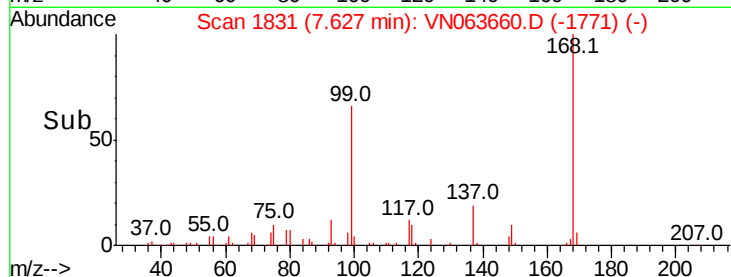
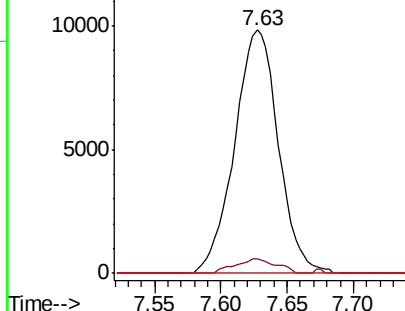
#38
Carbon Tetrachloride
Concen: 5.474 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN063660.D
Acq: 25 Sep 2020 5:01

Instrument :
MSVOA_N
ClientSampleId :
MTB-SP

Tot Ion:117 Resp: 22606
Ion Ratio Lower Upper
117 100
119 6.0 74.5 111.7#
121 0.0 24.1 36.1#

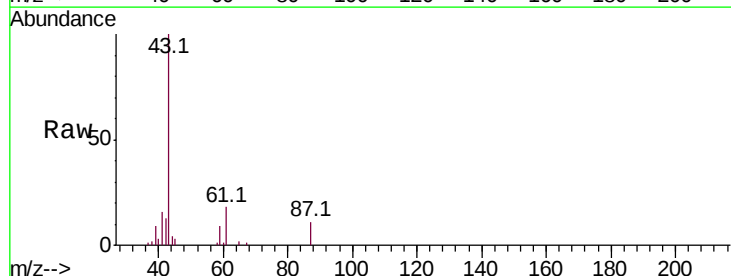


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

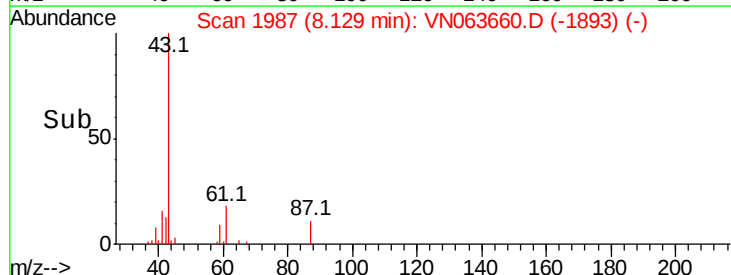
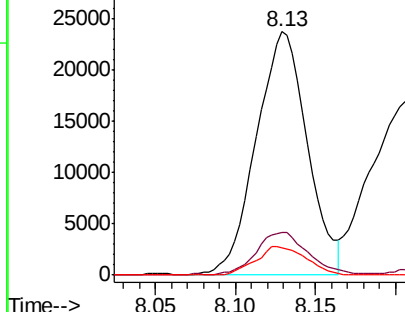


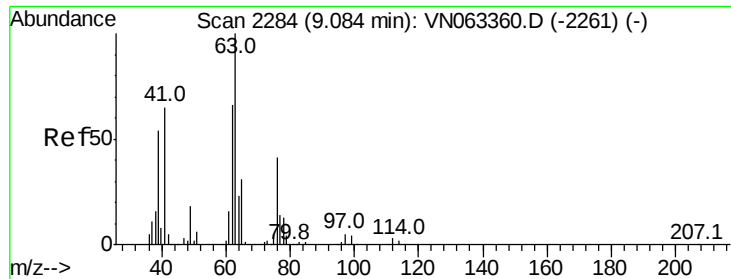
#43
Isopropyl Acetate
Concen: 7.410 ug/l
RT: 8.13 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VN063660.D
Acq: 25 Sep 2020 5:01

Tgt Ion: 43 Resp: 52608
Ion Ratio Lower Upper
43 100
61 17.9 14.2 21.2
87 11.4 9.0 13.6



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





#45

1,2-Dichloropropane

Concen: 0.207 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN063660.D

Acq: 25 Sep 2020 5:01

Instrument :

MSVOA_N

ClientSampled :

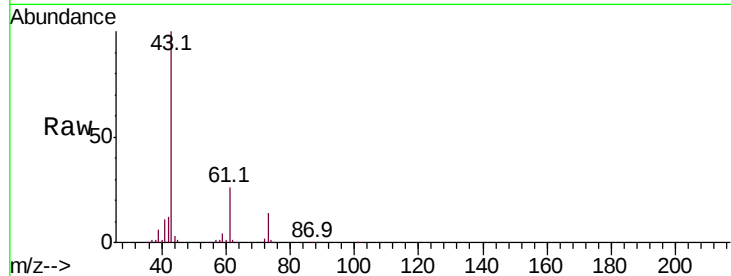
MTB-SP

Tot Ion: 63 Resp: 650

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.24

500

400

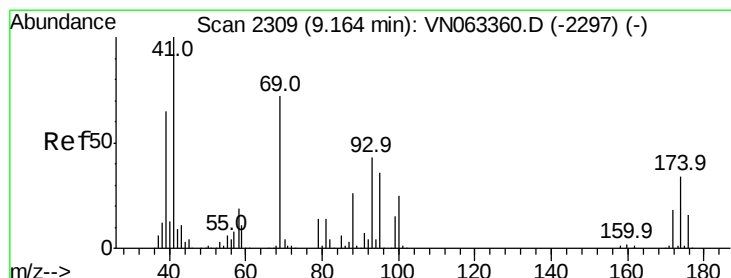
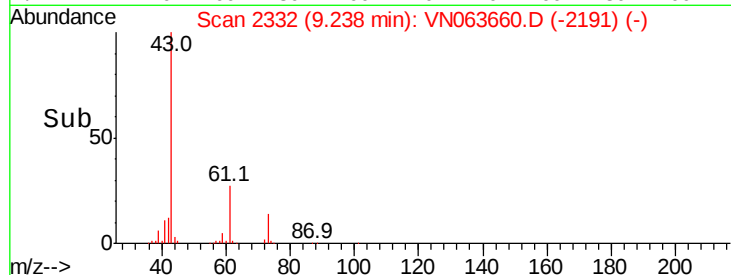
300

200

100

0

Time-->



#48

Methyl methacrylate

Concen: 0.931 ug/l

RT: 9.14 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN063660.D

Acq: 25 Sep 2020 5:01

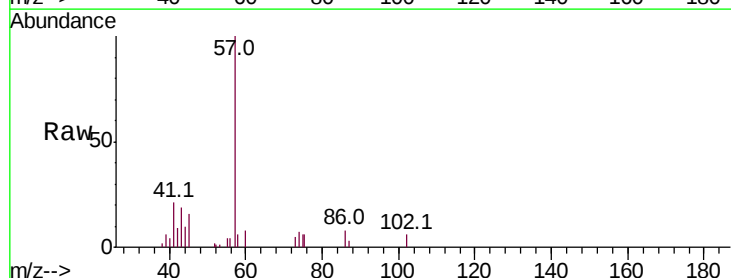
Tgt Ion: 41 Resp: 3249

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): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

5000

4000

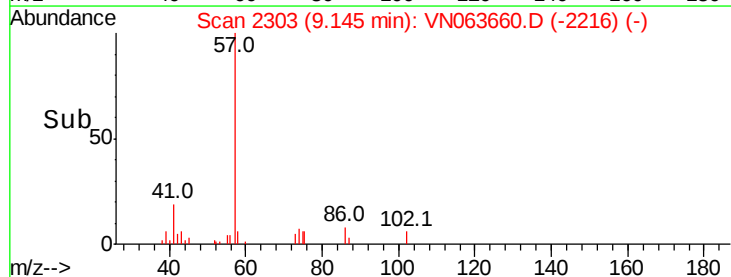
3000

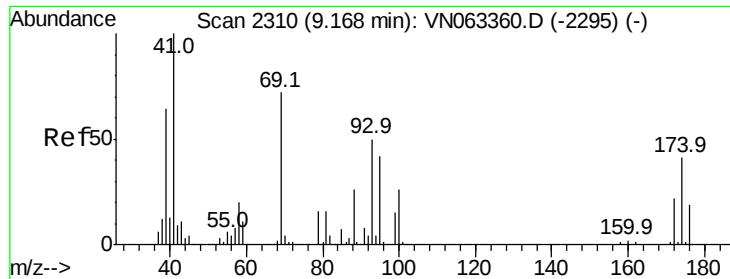
2000

1000

0

Time-->





#49

1,4-Dioxane

Concen: 1.219 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.07 min

Lab File: VN063660.D

Acq: 25 Sep 2020 5:01

Instrument :

MSVOA_N

ClientSampleId :

MTB-SP

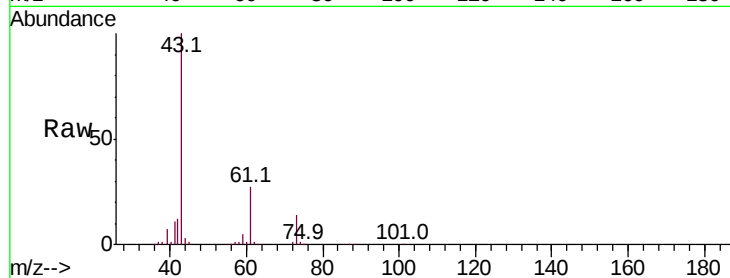
Tot Ion: 88 Resp: 61

Ion Ratio Lower Upper

88 100

43 783372.1 32.6 49.0#

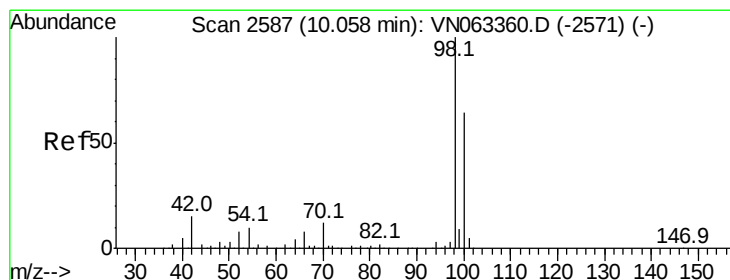
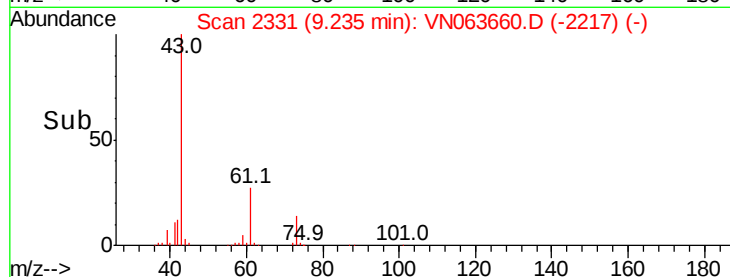
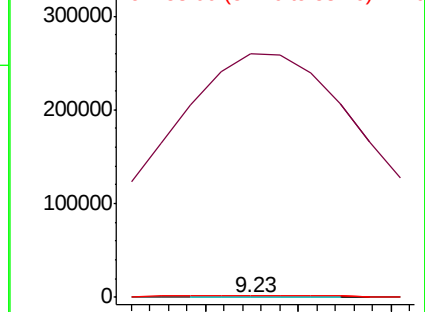
58 5027.9 60.0 90.0#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 50.575 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063660.D

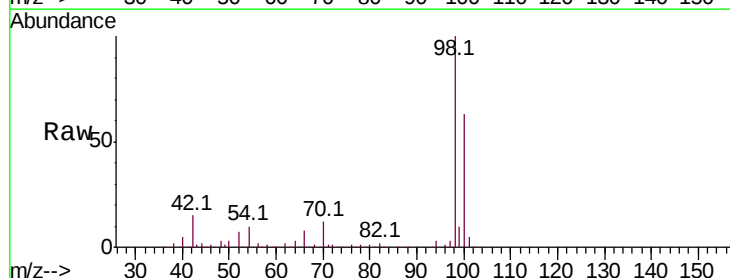
Acq: 25 Sep 2020 5:01

Tgt Ion: 98 Resp: 499957

Ion Ratio Lower Upper

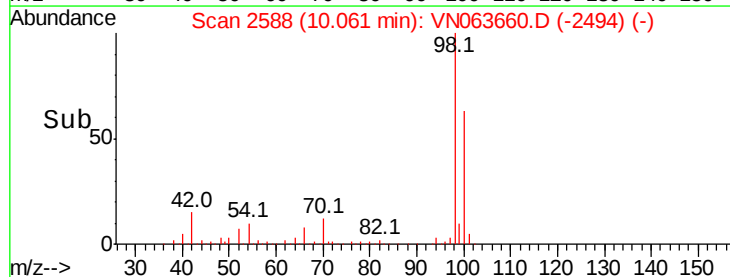
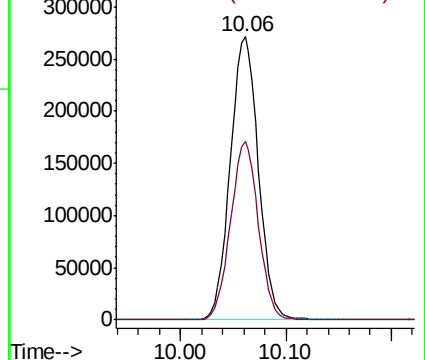
98 100

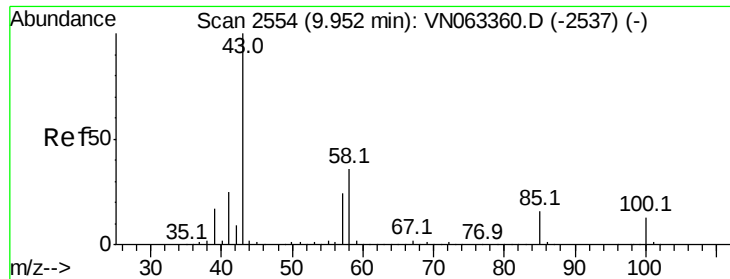
100 62.3 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 2.163 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063660.D

Acq: 25 Sep 2020 5:01

Instrument :

MSVOA_N

ClientSampled :

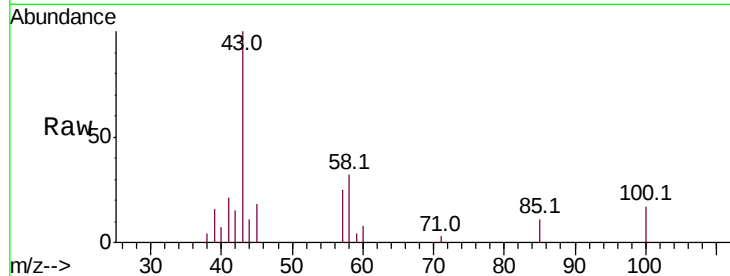
MTB-SP

Tot Ion: 43 Resp: 8597

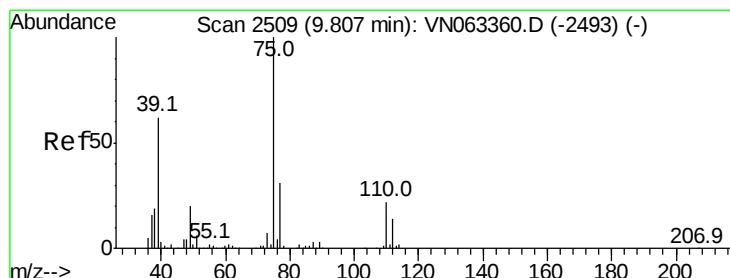
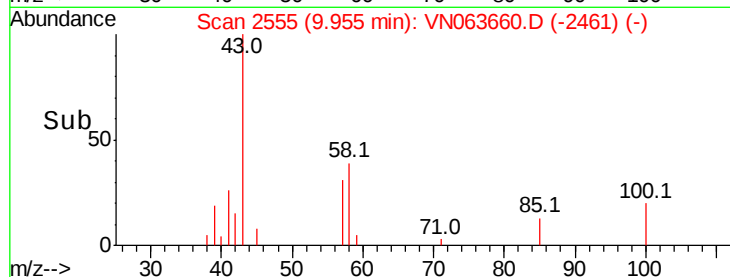
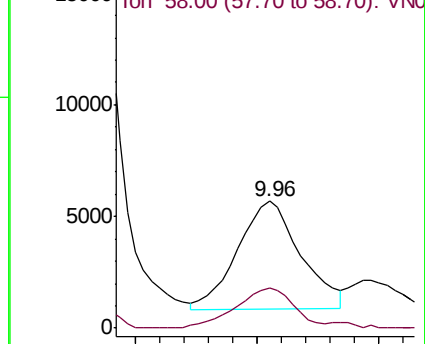
Ion Ratio Lower Upper

43 100

58 34.8 29.0 43.6



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



#54

cis-1,3-Dichloropropene

Concen: 4.842 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063660.D

Acq: 25 Sep 2020 5:01

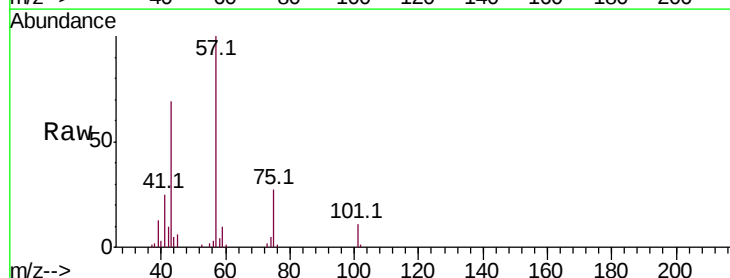
Tgt Ion: 75 Resp: 24489

Ion Ratio Lower Upper

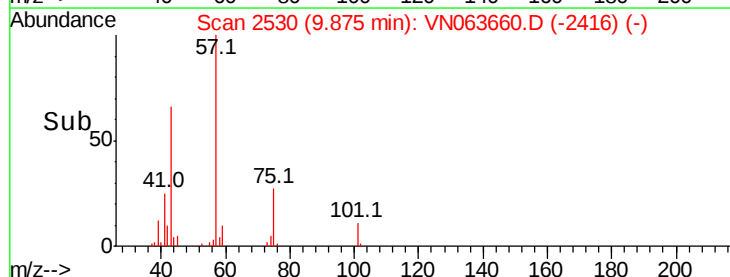
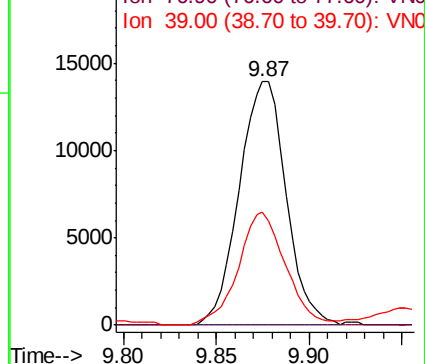
75 100

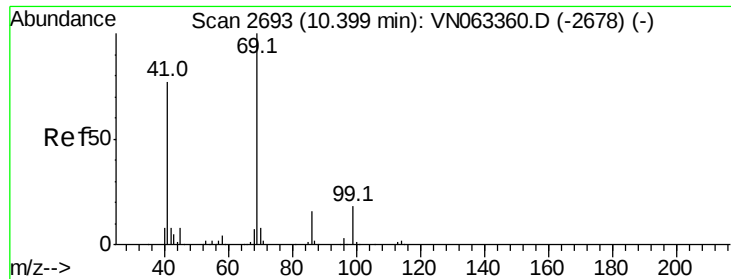
77 0.0 24.6 37.0#

39 46.4 49.8 74.8#



Abundance Ion 74.90 (74.60 to 75.60): VN063360.D (-2493) (-)





#56

Ethyl methacrylate

Concen: 0.352 ug/l

RT: 10.51 min Scan# 2728

Delta R.T. 0.11 min

Lab File: VN063660.D

Acq: 25 Sep 2020 5:01

Instrument :

MSVOA_N

ClientSampled :

MTB-SP

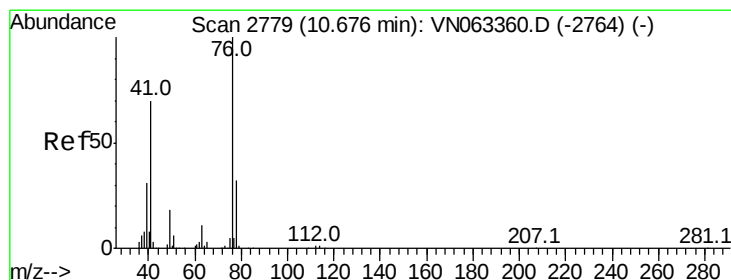
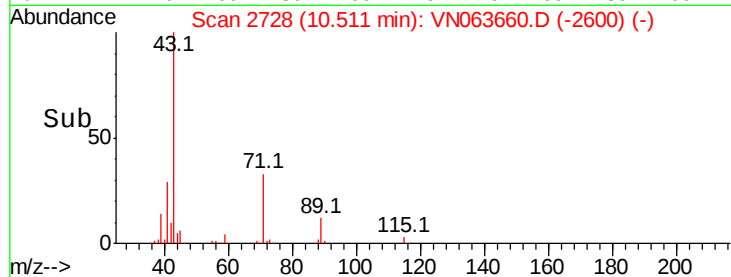
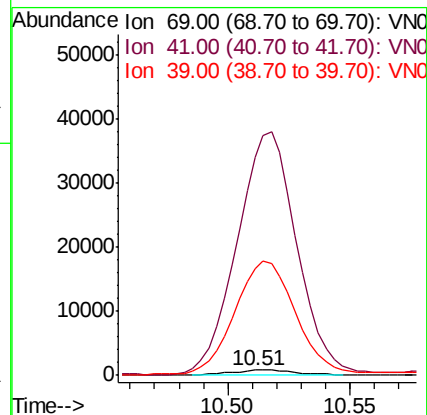
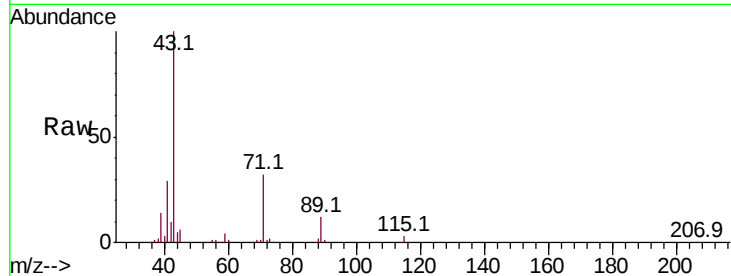
Tot Ion: 69 Resp: 1514

Ion Ratio Lower Upper

69 100

41 4289.8 61.0 91.6#

39 2096.2 39.2 58.8#



#57

1,3-Dichloropropane

Concen: 0.498 ug/l

RT: 10.74 min Scan# 2799

Delta R.T. 0.06 min

Lab File: VN063660.D

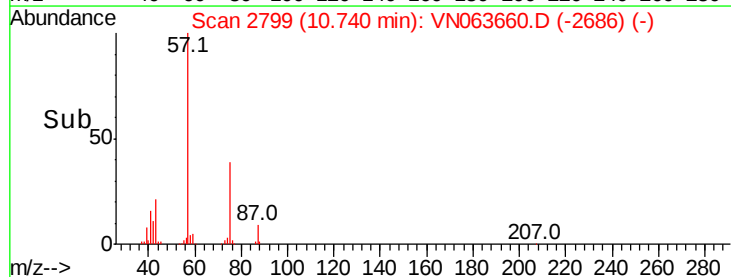
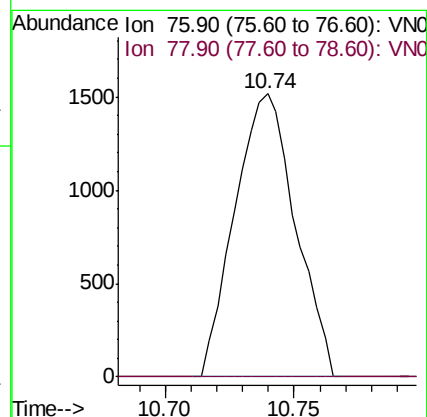
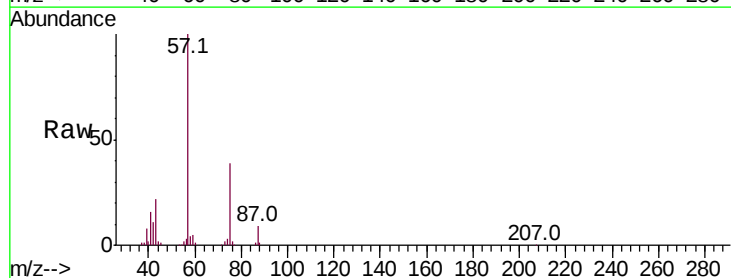
Acq: 25 Sep 2020 5:01

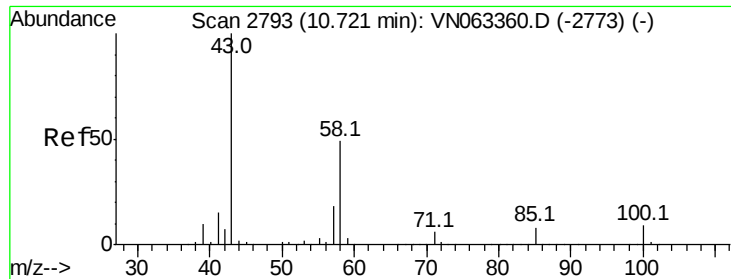
Tgt Ion: 76 Resp: 2477

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#





#59

2-Hexanone

Concen: 12.157 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063660.D

Acq: 25 Sep 2020 5:01

Instrument :

MSVOA_N

ClientSampled :

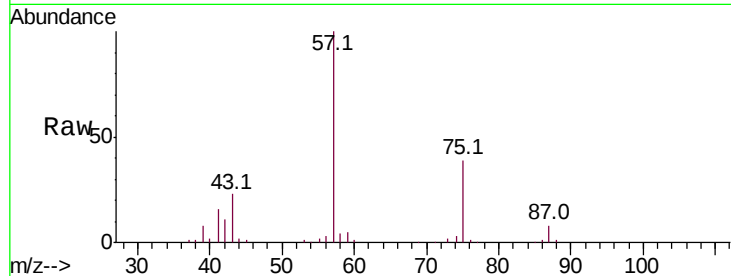
MTB-SP

Tot Ion: 43 Resp: 35007

Ion Ratio Lower Upper

43 100

58 19.9 24.7 74.1#



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-2773) (-)

Ion 58.00 (57.70 to 58.70): VN063360.D (-2773) (-)

40000

30000

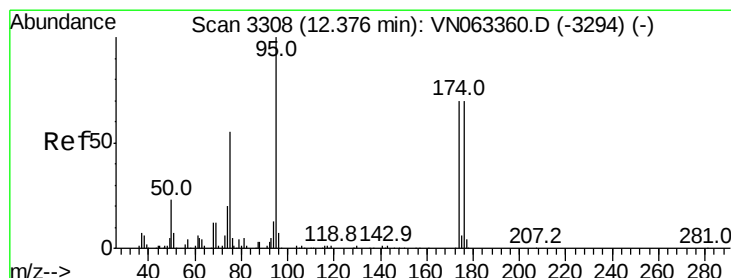
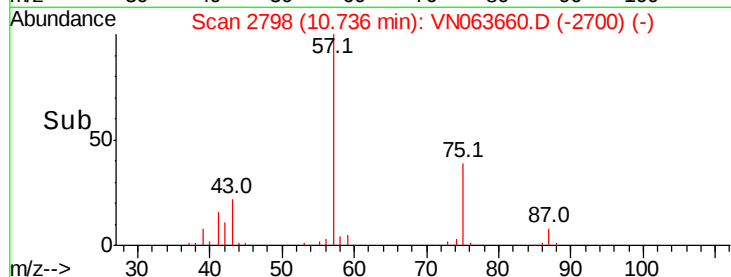
20000

10000

0

10.70 10.75 10.80

Time-->



#62

4-Bromofluorobenzene

Concen: 52.301 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063660.D

Acq: 25 Sep 2020 5:01

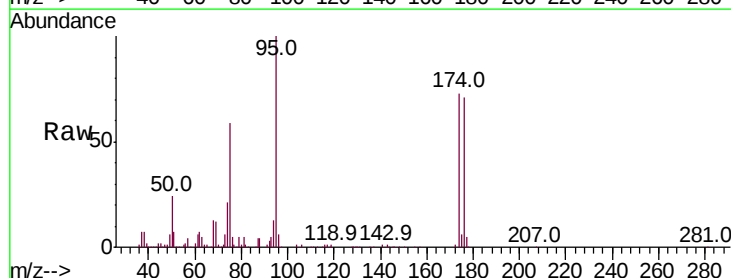
Tgt Ion: 95 Resp: 189530

Ion Ratio Lower Upper

95 100

174 74.8 0.0 140.8

176 71.1 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) (-)

150000

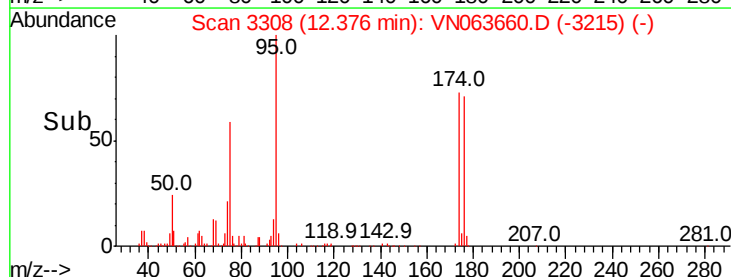
100000

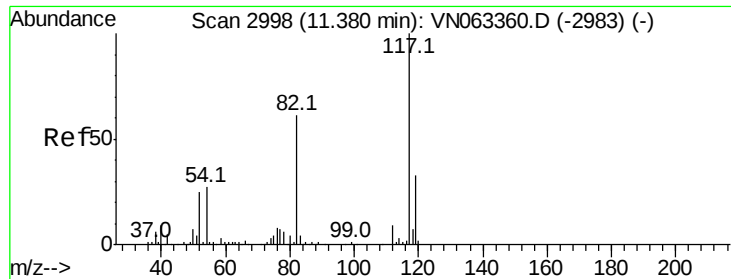
50000

0

12.30 12.40

Time-->

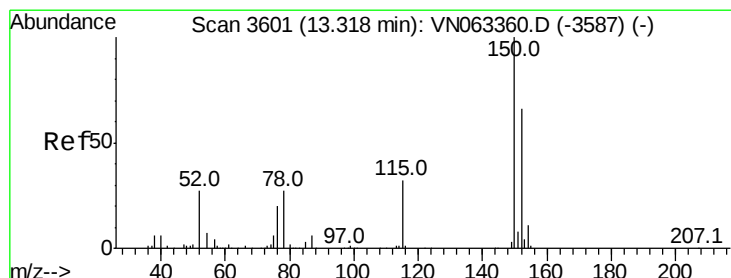
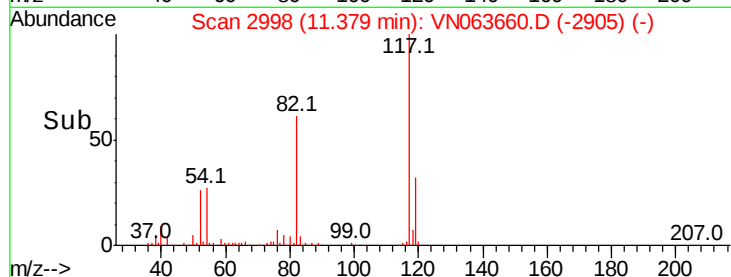
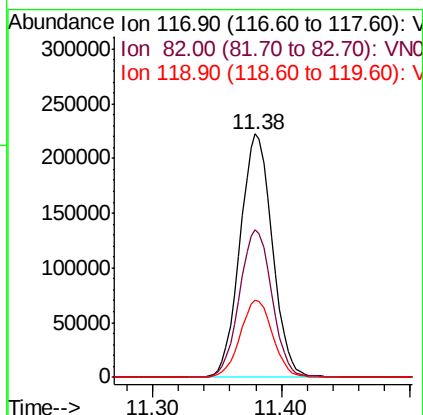
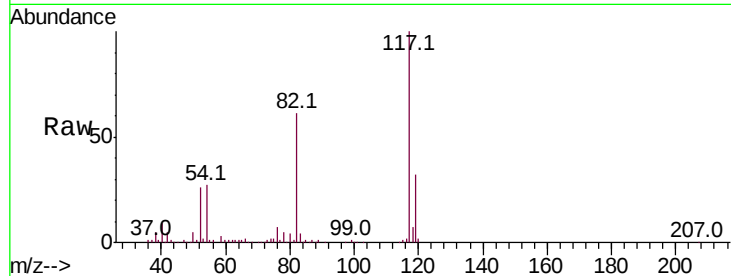




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063660.D
Acq: 25 Sep 2020 5:01

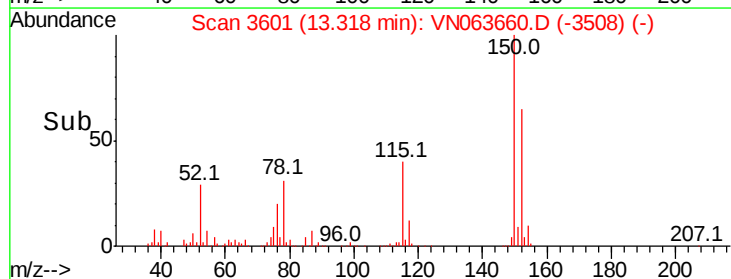
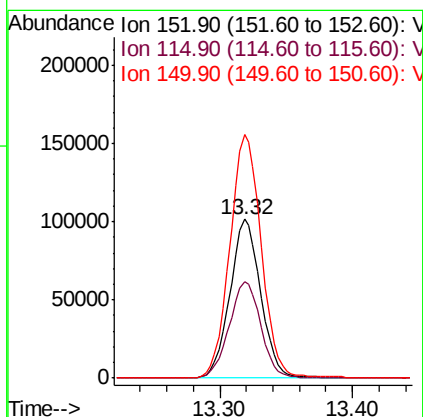
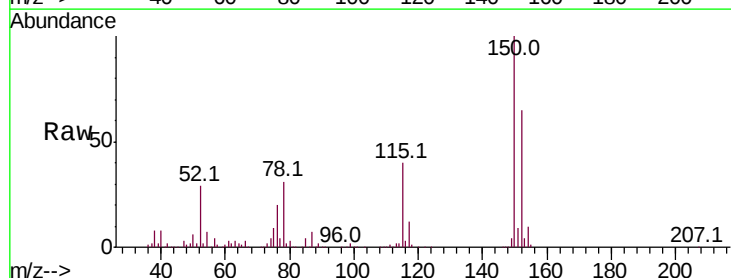
Instrument :
MSVOA_N
ClientSampleId :
MTB-SP

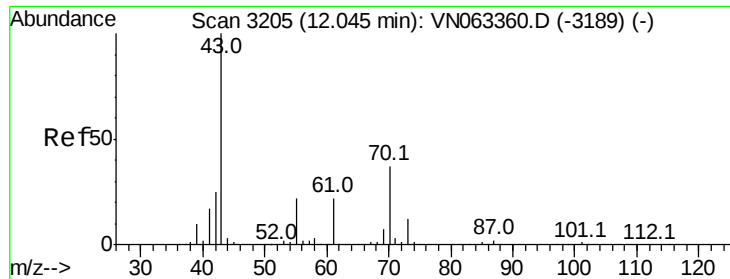
Tot Ion:117 Resp: 388271
Ion Ratio Lower Upper
117 100
82 60.7 49.2 73.8
119 31.7 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. -0.00 min
Lab File: VN063660.D
Acq: 25 Sep 2020 5:01

Tgt Ion:152 Resp: 163951
Ion Ratio Lower Upper
152 100
115 62.4 32.2 96.6
150 156.0 0.0 343.4





#74

N-amvl acetate

Concen: 0.472 ug/l

RT: 12.01 min Scan# 3194

Delta R.T. -0.04 min

Lab File: VN063660.D

Acq: 25 Sep 2020 5:01

Instrument :

MSVOA_N

ClientSampled :

MTB-SP

Tot Ion: 43 Resp: 2933

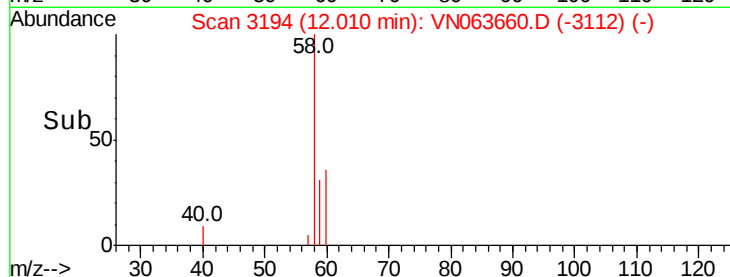
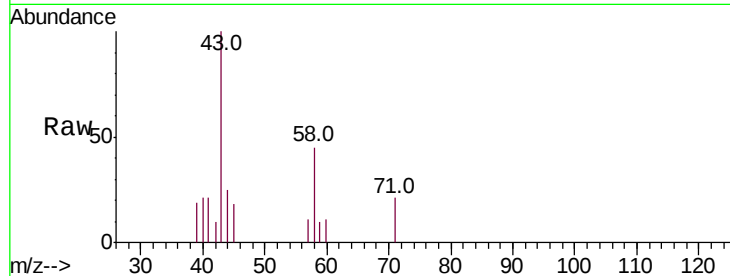
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 0.0 17.7 26.5#

61 0.0 17.4 26.2#

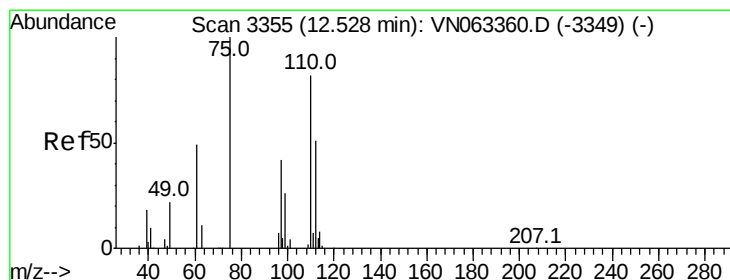
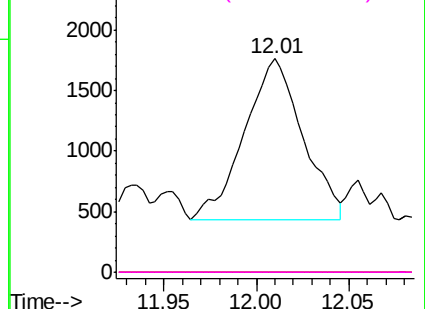


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 27.085 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063660.D

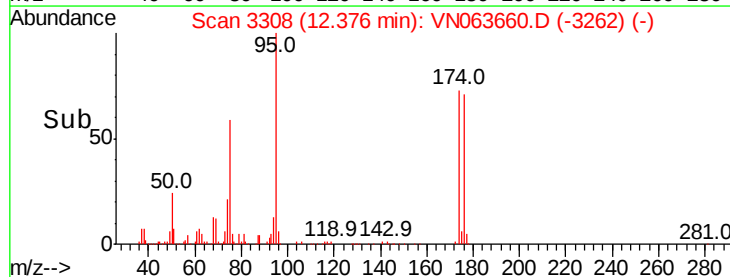
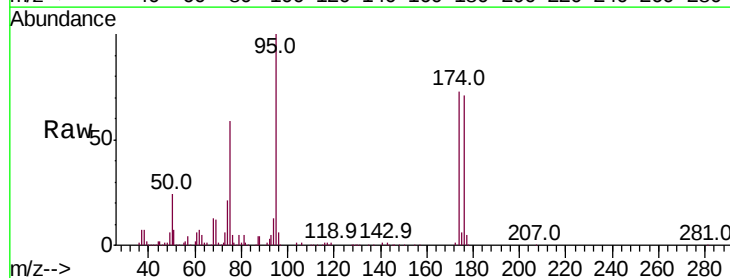
Acq: 25 Sep 2020 5:01

Tgt Ion: 75 Resp: 109912

Ion Ratio Lower Upper

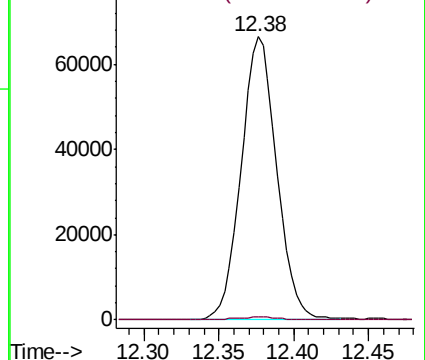
75 100

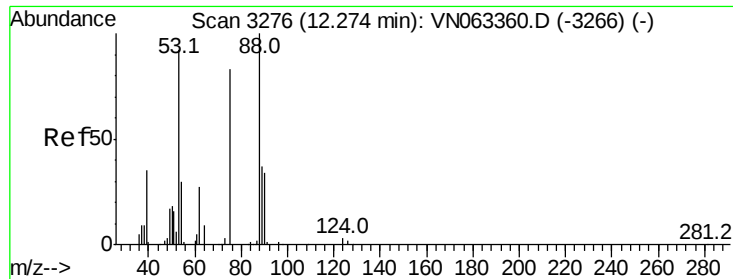
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 74.257 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063660.D

Acq: 25 Sep 2020 5:01

Instrument :

MSVOA_N

ClientSampleId :

MTB-SP

Tot Ion: 75 Resp: 109912

Ion Ratio Lower Upper

75 100

53 0.2 85.7 128.5#

89 0.0 38.0 57.0#

