

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN081420\
 Data File : VN062961.D
 Acq On : 15 Aug 2020 2:36
 Operator : JC/MD
 Sample : L3508-16
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TR-04-081220

Quant Time: Aug 17 09:33:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080520W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 05 13:26:42 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	182682	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	347833	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	247522	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	89379	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	155702	51.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.08%	
35) Dibromofluoromethane	7.55	113	121893	51.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.46%	
50) Toluene-d8	10.06	98	467222	50.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.60%	
62) 4-Bromofluorobenzene	12.38	95	113532	32.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	64.68%	

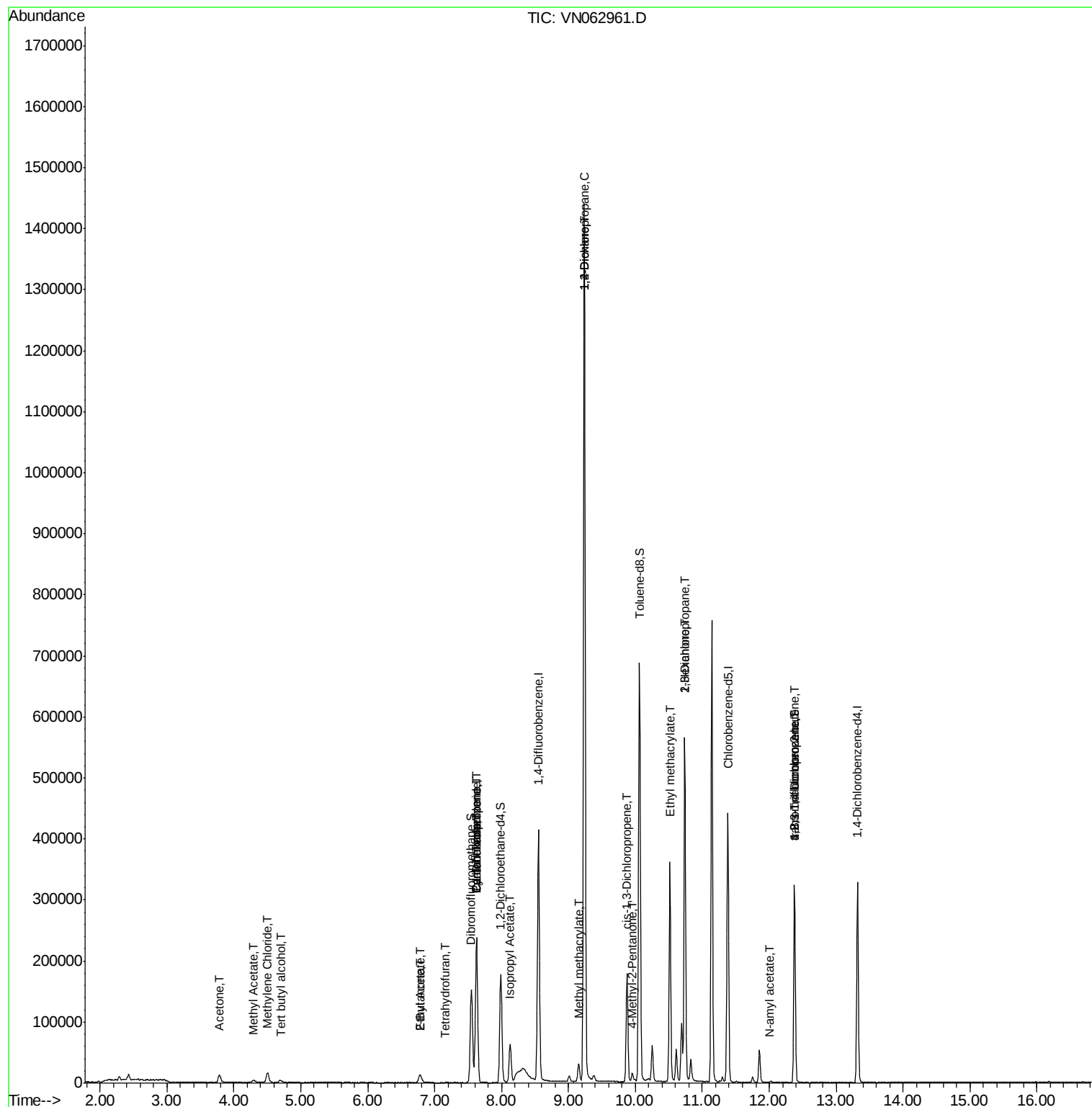
Target Compounds					Qvalue
11) Tert butyl alcohol	4.70	59	2424	4.896 ug/l #	72
16) Acetone	3.78	43	22705	20.800 ug/l	94
17) Carbon Disulfide	4.00	76	324	Below Cal #	74
18) Methyl Acetate	4.29	43	8405	2.175 ug/l	91
20) Methylene Chloride	4.50	84	12384	5.523 ug/l	98
25) 2-Butanone	6.80	43	4706	3.044 ug/l #	89
29) Tetrahydrofuran	7.17	42	365	0.363 ug/l #	46
31) Cyclohexane	7.63	56	3882	1.060 ug/l #	1
36) 1,1-Dichloropropene	7.62	75	15609	4.609 ug/l #	49
37) Ethyl Acetate	6.80	43	4706	1.330 ug/l #	88
38) Carbon Tetrachloride	7.63	117	18605	4.645 ug/l #	14
43) Isopropyl Acetate	8.13	43	76085	12.893 ug/l	99
45) 1,2-Dichloropropane	9.23	63	1574	0.575 ug/l #	45
48) Methyl methacrylate	9.15	41	4617	1.591 ug/l #	13
49) 1,4-Dioxane	9.22	88	64	1.190 ug/l #	21
51) 4-Methyl-2-Pentanone	9.96	43	10789	2.826 ug/l	98
54) cis-1,3-Dichloropropene	9.88	75	30217	6.797 ug/l #	65
56) Ethyl methacrylate	10.51	69	2364	0.589 ug/l #	1
57) 1,3-Dichloropropane	10.73	76	5373	1.187 ug/l #	43
59) 2-Hexanone	10.74	43	81661	28.672 ug/l #	53
74) N-amyl acetate	12.00	43	1585	0.581 ug/l #	44
76) 1,2,3-Trichloropropane	12.38	75	61090	25.344 ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	61090	77.368 ug/l #	10

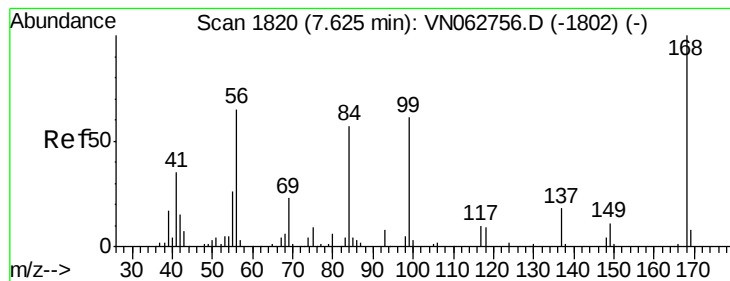
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Aug 05 13:26:42 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VN062961.D

Acq: 15 Aug 2020 2:36

Instrument :

MSVOA_N

ClientSampleId :

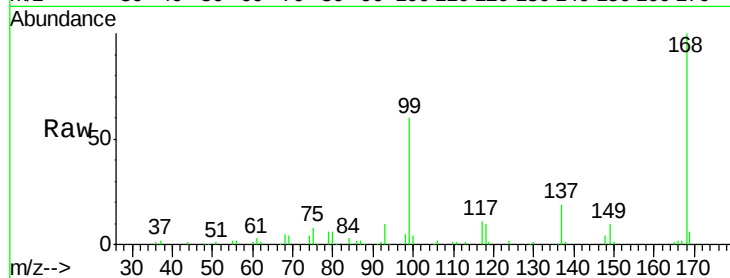
TR-04-081220

Tgt Ion:168 Resp: 182682

Ion Ratio Lower Upper

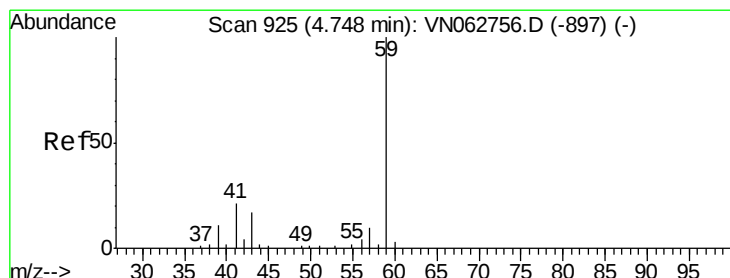
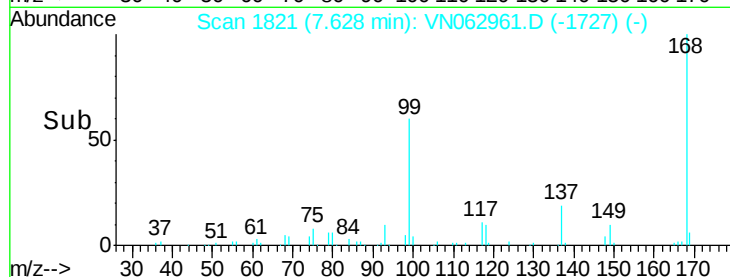
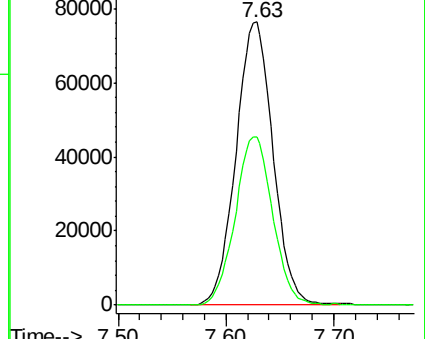
168 100

99 59.5 52.9 79.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 4.896 ug/l

RT: 4.70 min Scan# 909

Delta R.T. -0.05 min

Lab File: VN062961.D

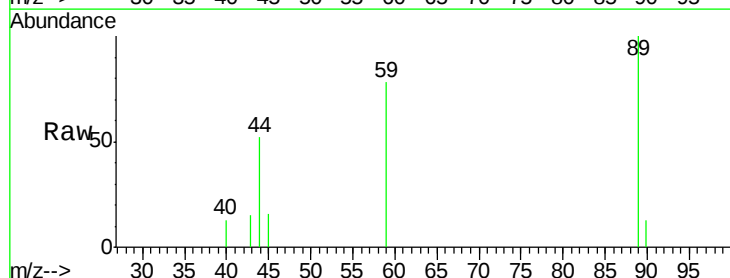
Acq: 15 Aug 2020 2:36

Tgt Ion: 59 Resp: 2424

Ion Ratio Lower Upper

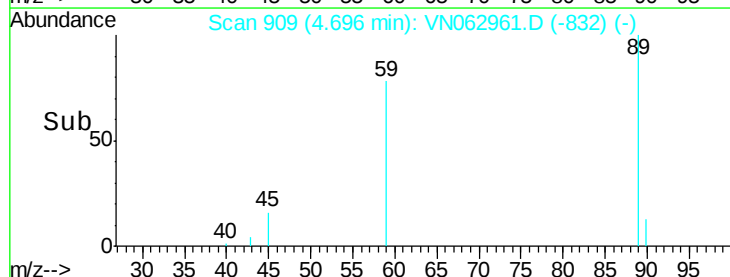
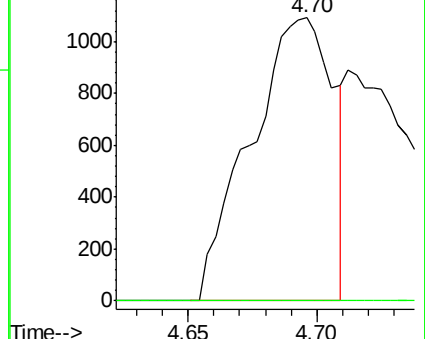
59 100

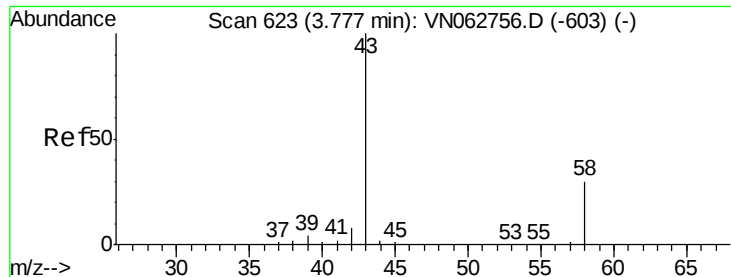
57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#16

Acetone

Concen: 20.800 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN062961.D

Acq: 15 Aug 2020 2:36

Instrument :

MSVOA_N

ClientSampleId :

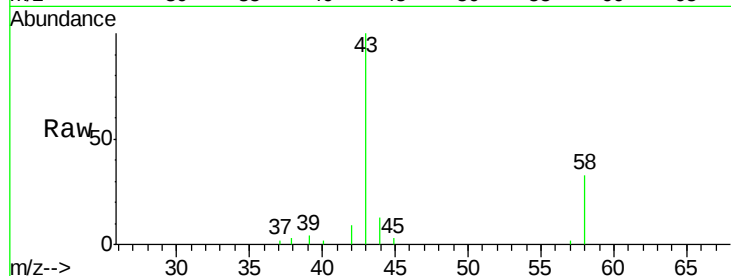
TR-04-081220

Tgt Ion: 43 Resp: 22705

Ion Ratio Lower Upper

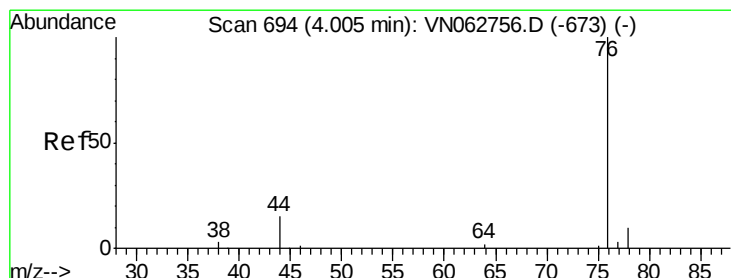
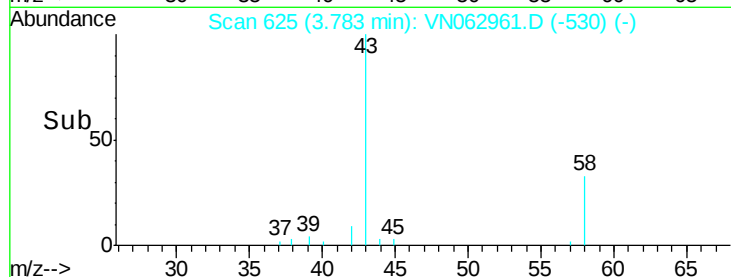
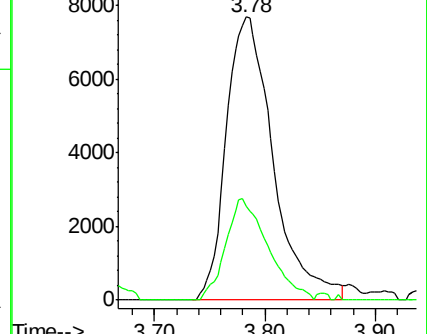
43 100

58 33.3 24.1 36.1



Abundance Ion 43.00 (42.70 to 43.70): VN062961.D (-530) (-)

Ion 58.00 (57.70 to 58.70): VN062961.D (-530) (-)



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.00 min Scan# 694

Delta R.T. 0.00 min

Lab File: VN062961.D

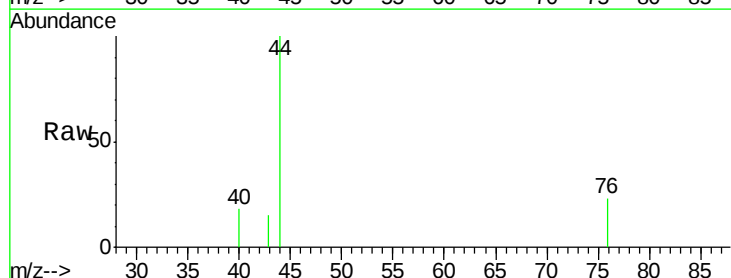
Acq: 15 Aug 2020 2:36

Tgt Ion: 76 Resp: 324

Ion Ratio Lower Upper

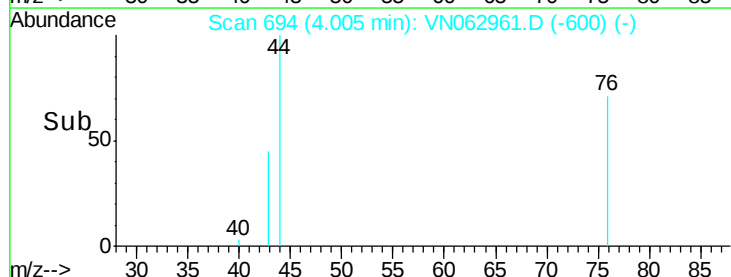
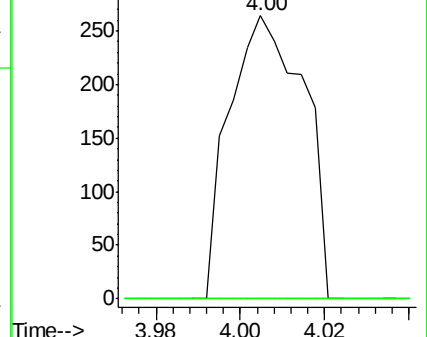
76 100

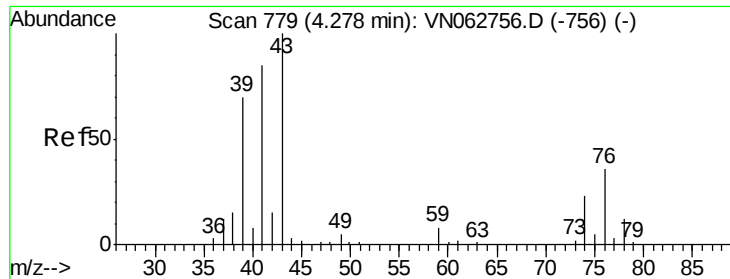
78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VN062961.D (-600) (-)

Ion 77.90 (77.60 to 78.60): VN062961.D (-600) (-)

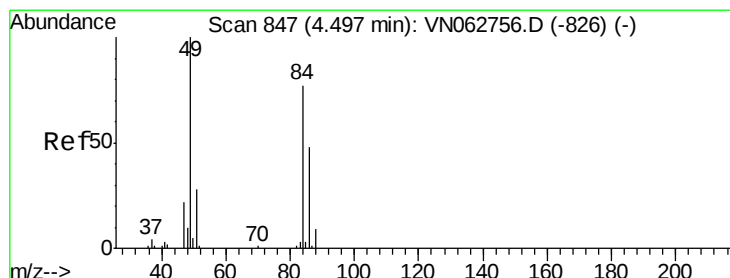
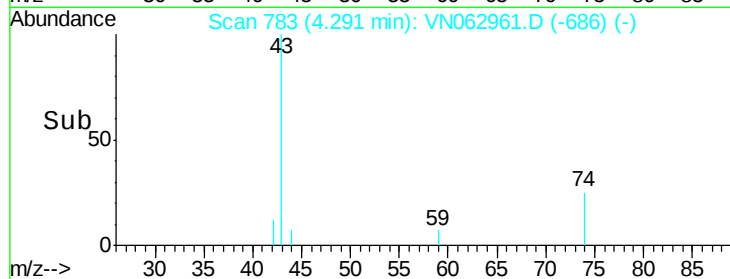
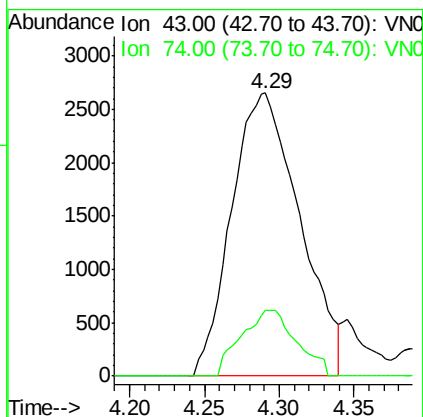
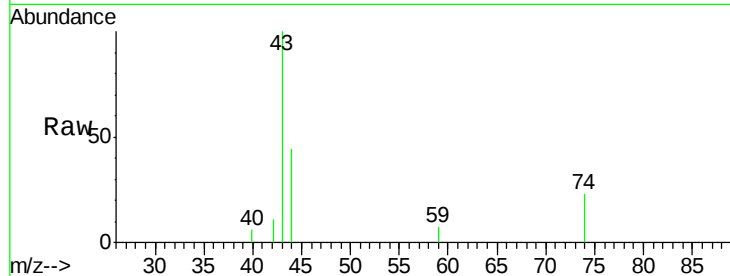




#18
Methyl Acetate
Concen: 2.175 ug/l
RT: 4.29 min Scan# 783
Delta R.T. 0.01 min
Lab File: VN062961.D
Acq: 15 Aug 2020 2:36

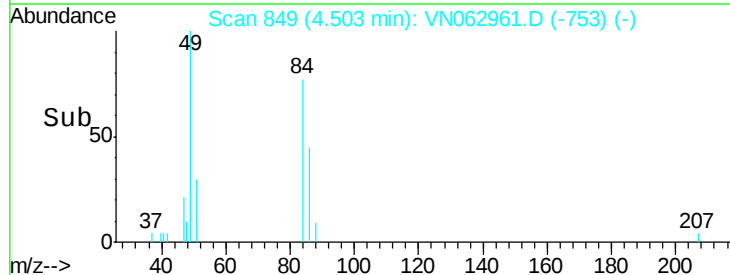
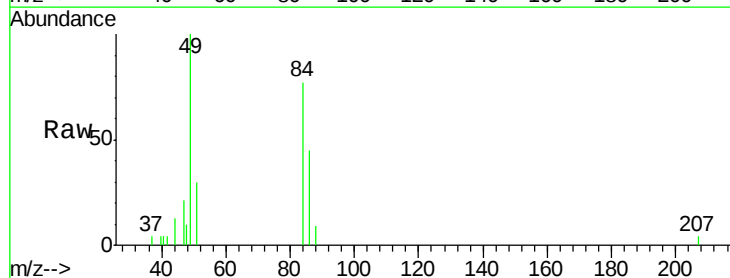
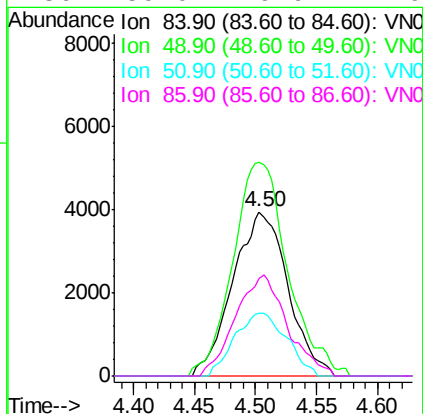
Instrument :
MSVOA_N
ClientSampleId :
TR-04-081220

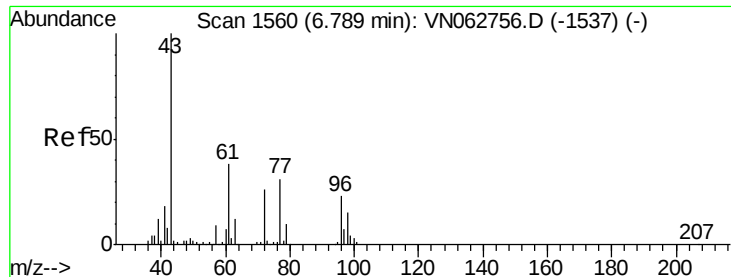
Tgt Ion: 43 Resp: 8405
Ion Ratio Lower Upper
43 100
74 18.9 18.6 28.0



#20
Methylene Chloride
Concen: 5.523 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.01 min
Lab File: VN062961.D
Acq: 15 Aug 2020 2:36

Tgt Ion: 84 Resp: 12384
Ion Ratio Lower Upper
84 100
49 130.1 103.4 155.2
51 38.5 29.3 43.9
86 59.0 49.9 74.9

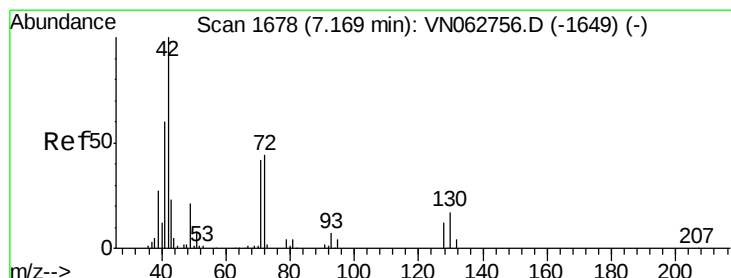
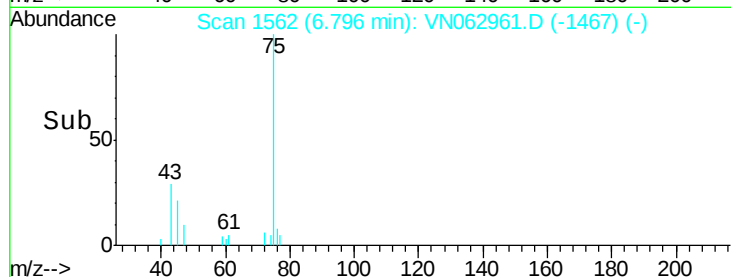
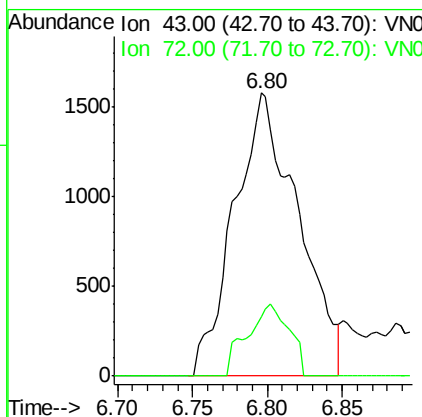
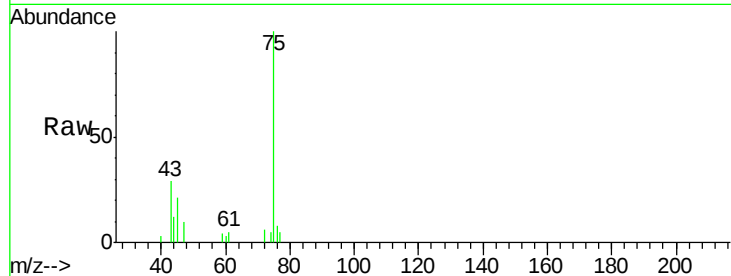




#25
2-Butanone
Concen: 3.044 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. 0.01 min
Lab File: VN062961.D
Acq: 15 Aug 2020 2:36

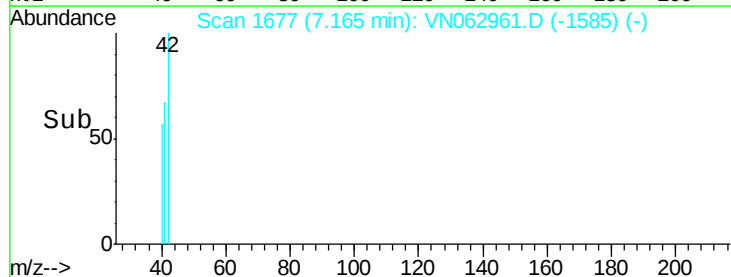
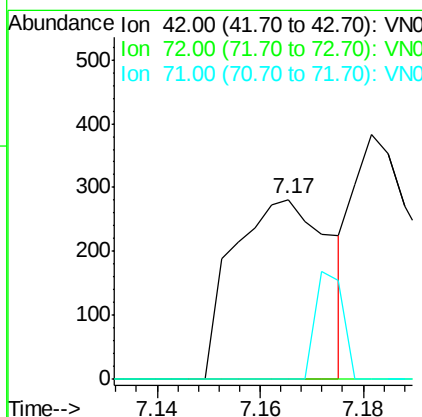
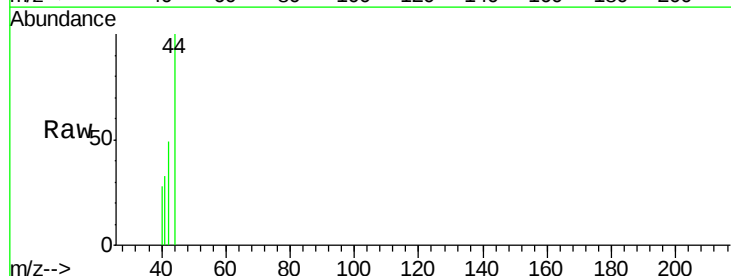
Instrument :
MSVOA_N
ClientSampleId :
TR-04-081220

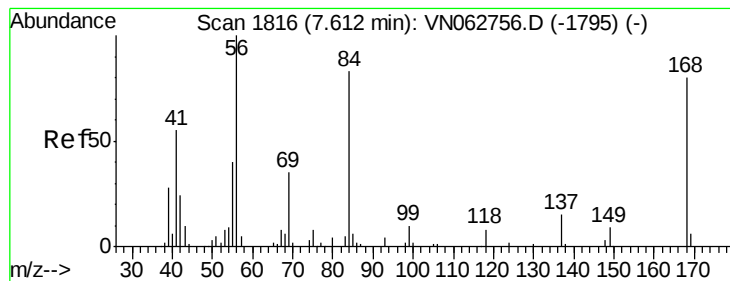
Tgt Ion: 43 Resp: 4706
Ion Ratio Lower Upper
43 100
72 20.9 21.1 31.7#



#29
Tetrahydrofuran
Concen: 0.363 ug/l
RT: 7.17 min Scan# 1677
Delta R.T. -0.00 min
Lab File: VN062961.D
Acq: 15 Aug 2020 2:36

Tgt Ion: 42 Resp: 365
Ion Ratio Lower Upper
42 100
72 0.0 35.0 52.4#
71 17.0 33.2 49.8#





#31

Cyclohexane

Concen: 1.060 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.02 min

Lab File: VN062961.D

Acq: 15 Aug 2020 2:36

Instrument :

MSVOA_N

ClientSampleId :

TR-04-081220

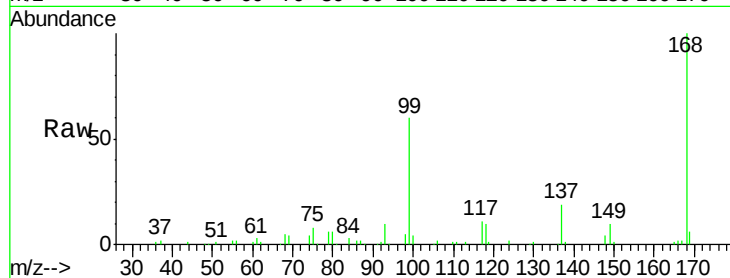
Tgt Ion: 56 Resp: 3882

Ion Ratio Lower Upper

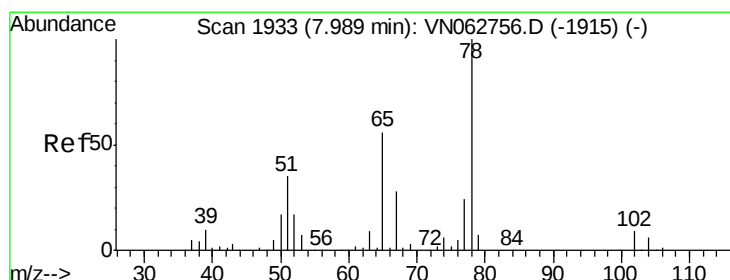
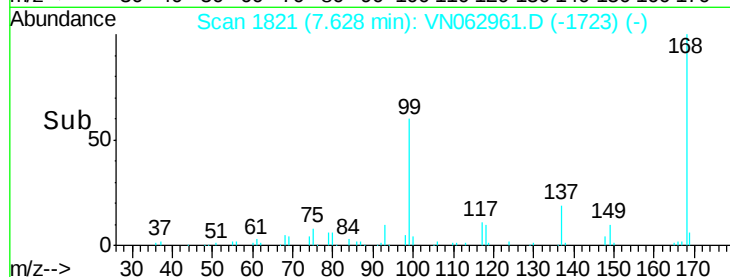
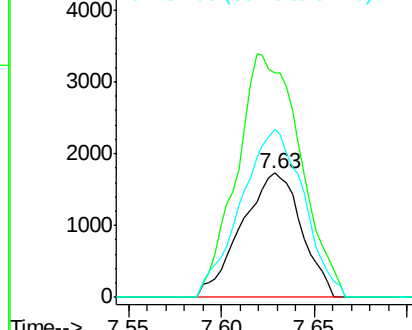
56 100

69 180.6 28.1 42.1#

84 135.0 66.8 100.2#



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: 51.540 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. -0.00 min

Lab File: VN062961.D

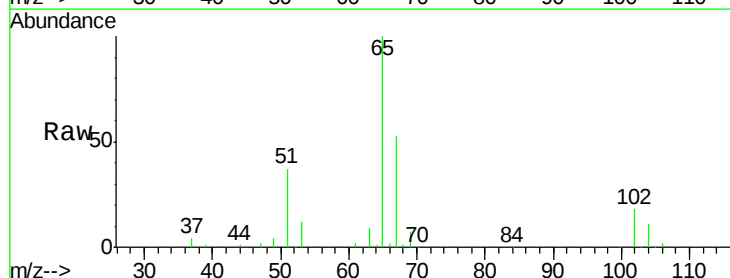
Acq: 15 Aug 2020 2:36

Tgt Ion: 65 Resp: 155702

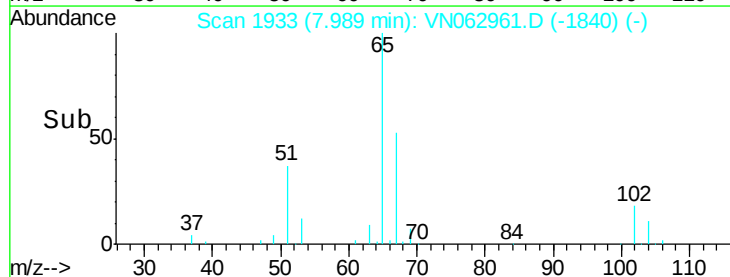
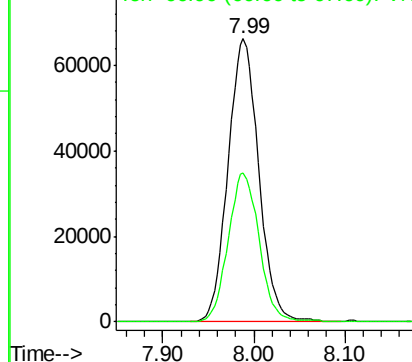
Ion Ratio Lower Upper

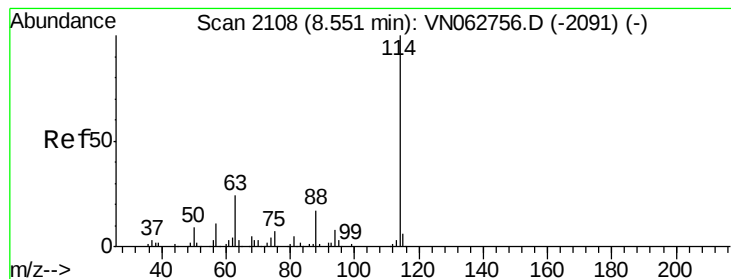
65 100

67 53.0 0.0 101.4



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# 2108

Delta R.T. -0.00 min

Lab File: VN062961.D

Acq: 15 Aug 2020 2:36

Instrument :

MSVOA_N

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TR-04-081220

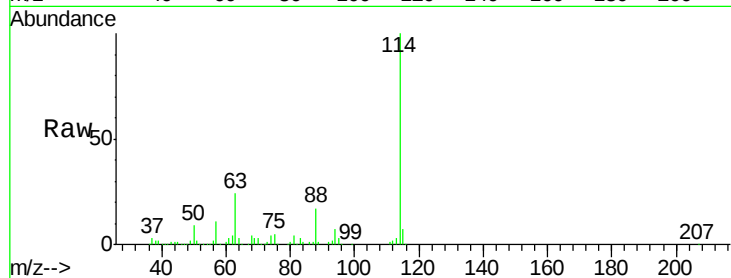
Tgt Ion:114 Resp: 347833

Ion Ratio Lower Upper

114 100

63 23.7 0.0 47.6

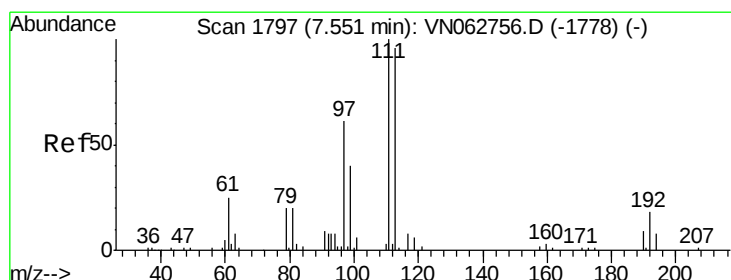
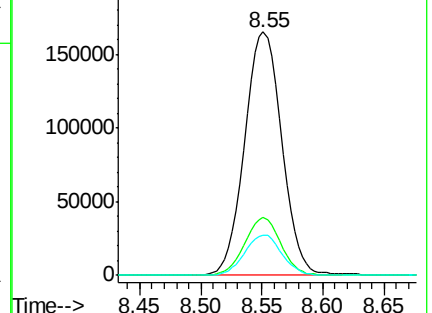
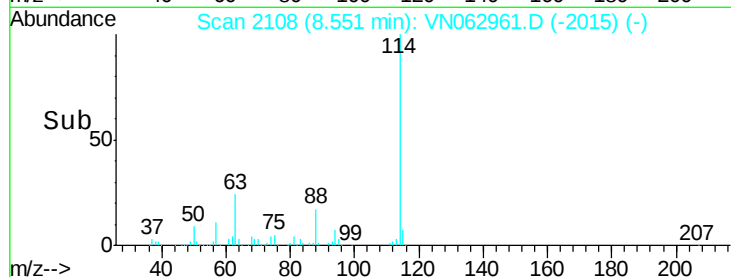
88 16.6 0.0 34.4



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: 51.229 ug/l

RT: 7.55 min Scan# 1797

Delta R.T. -0.00 min

Lab File: VN062961.D

Acq: 15 Aug 2020 2:36

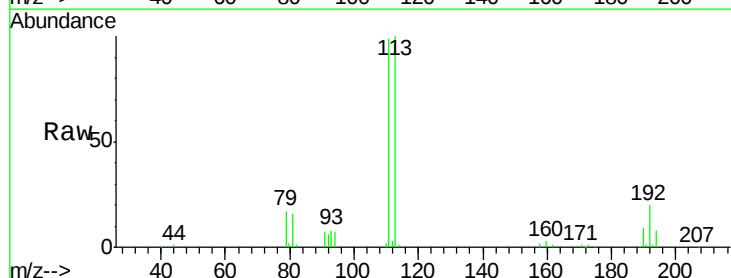
Tgt Ion:113 Resp: 121893

Ion Ratio Lower Upper

113 100

111 99.6 81.8 122.6

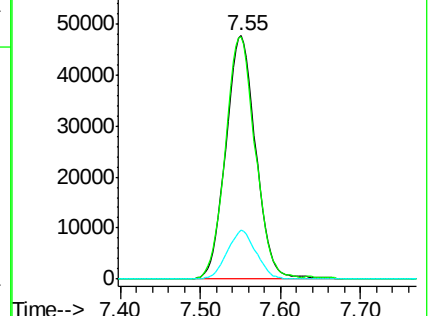
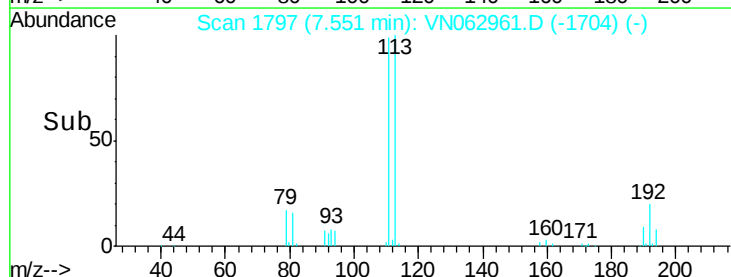
192 19.4 15.0 22.4

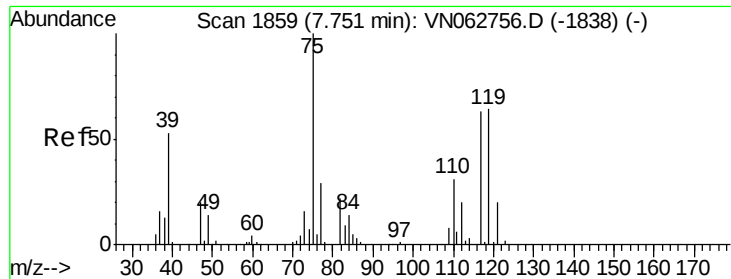


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

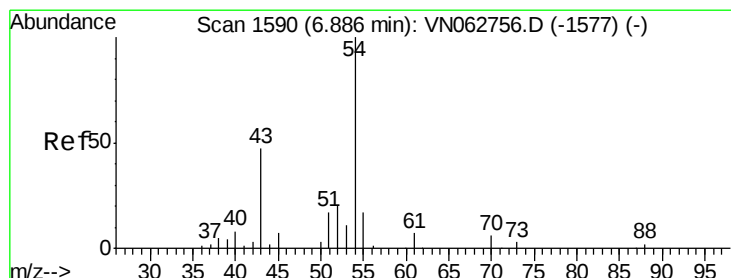
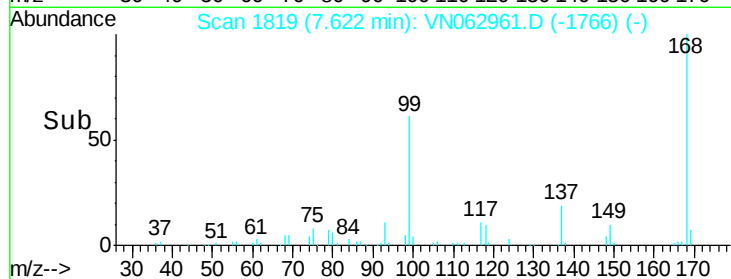
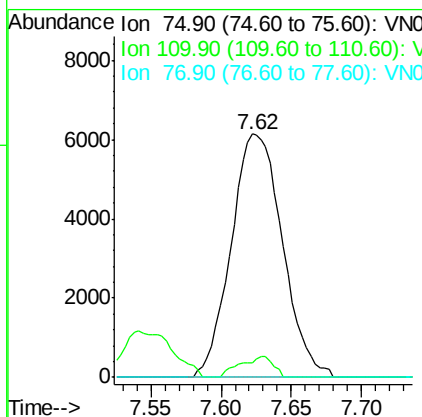
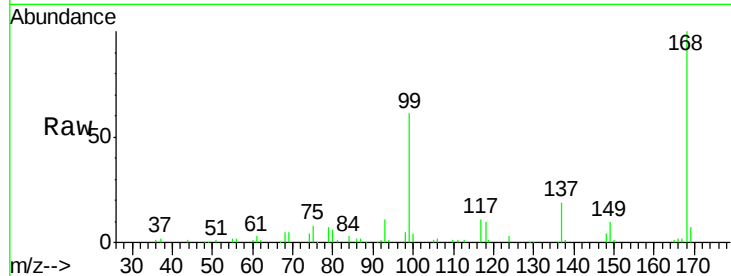




#36
 1,1-Dichloropropene
 Concen: 4.609 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN062961.D
 Acq: 15 Aug 2020 2:36

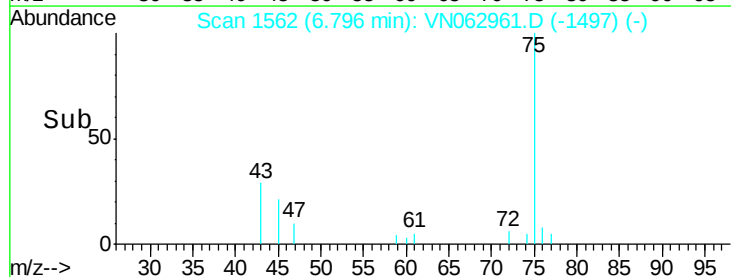
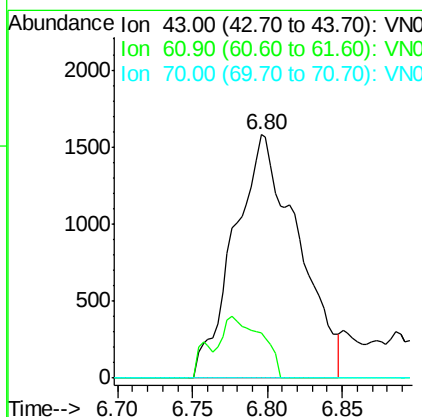
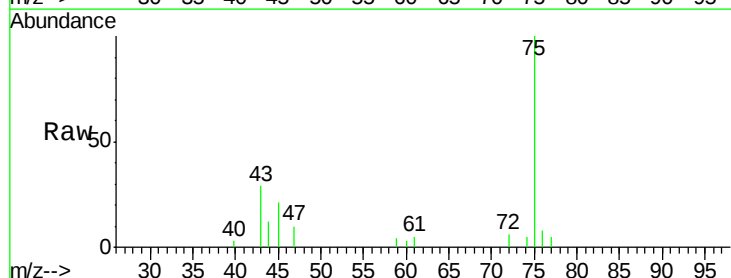
Instrument :
 MSVOA_N
 ClientSampleId :
 TR-04-081220

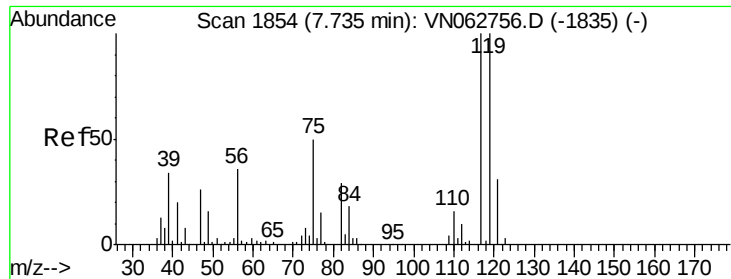
Tgt Ion: 75 Resp: 15609
 Ion Ratio Lower Upper
 75 100
 110 5.5 15.6 46.7#
 77 0.0 24.1 36.1#



#37
 Ethyl Acetate
 Concen: 1.330 ug/l
 RT: 6.80 min Scan# 1562
 Delta R.T. -0.09 min
 Lab File: VN062961.D
 Acq: 15 Aug 2020 2:36

Tgt Ion: 43 Resp: 4706
 Ion Ratio Lower Upper
 43 100
 61 15.7 12.1 18.1
 70 0.0 8.3 12.5#





#38

Carbon Tetrachloride

Concen: 4.645 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. -0.11 min

Lab File: VN062961.D

Acq: 15 Aug 2020 2:36

Instrument :

MSVOA_N

ClientSampleId :

TR-04-081220

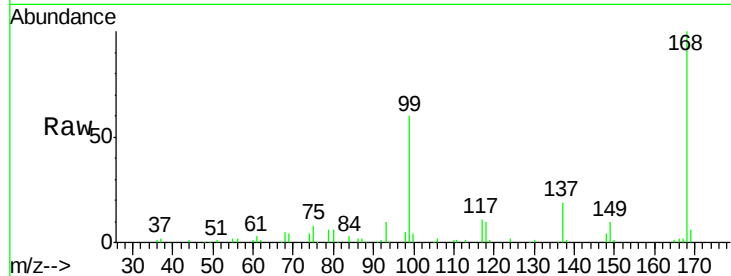
Tgt Ion:117 Resp: 18605

Ion Ratio Lower Upper

117 100

119 5.0 79.4 119.2#

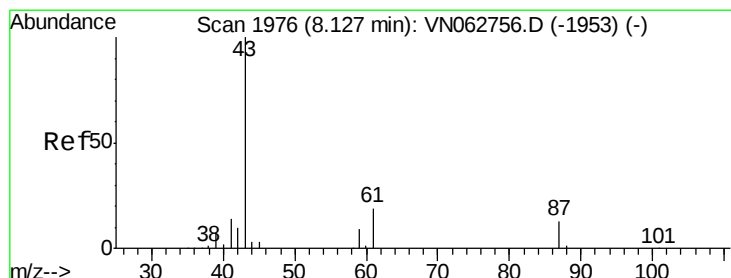
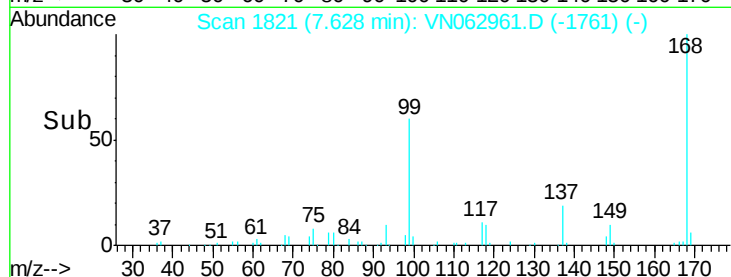
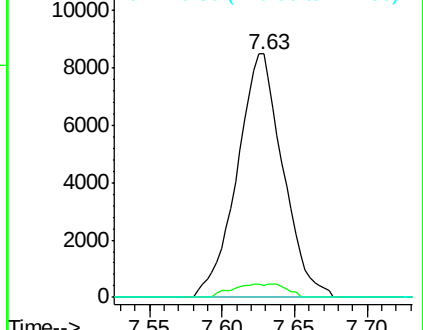
121 0.0 24.9 37.3#



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: 12.893 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062961.D

Acq: 15 Aug 2020 2:36

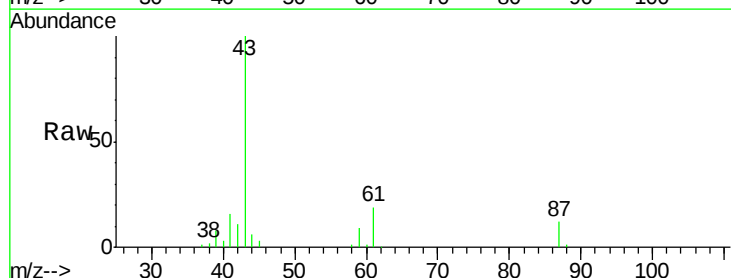
Tgt Ion: 43 Resp: 76085

Ion Ratio Lower Upper

43 100

61 19.4 15.8 23.6

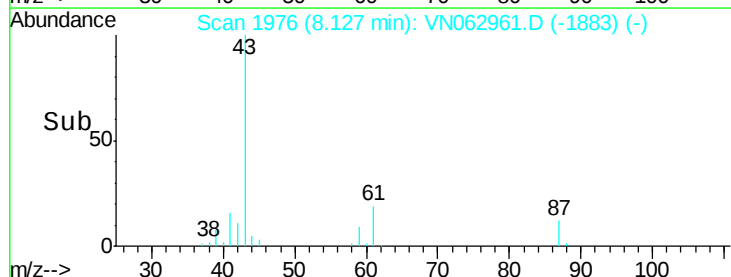
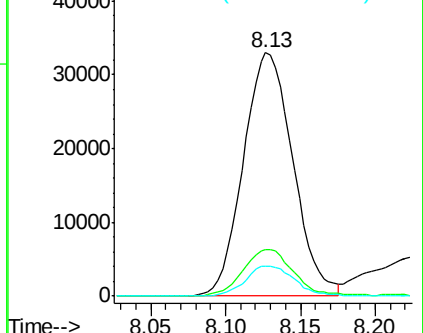
87 12.2 9.9 14.9

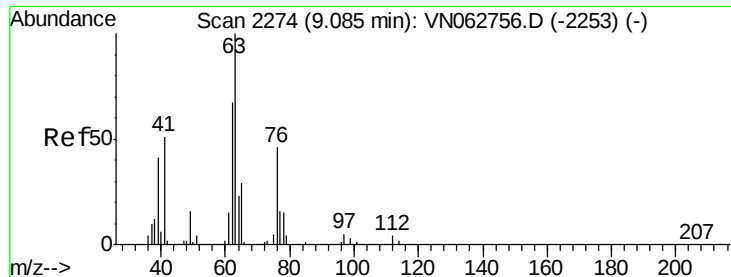


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.575 ug/l

RT: 9.23 min Scan# 2320

Delta R.T. 0.15 min

Lab File: VN062961.D

Acq: 15 Aug 2020 2:36

Instrument :

MSVOA_N

ClientSampleId :

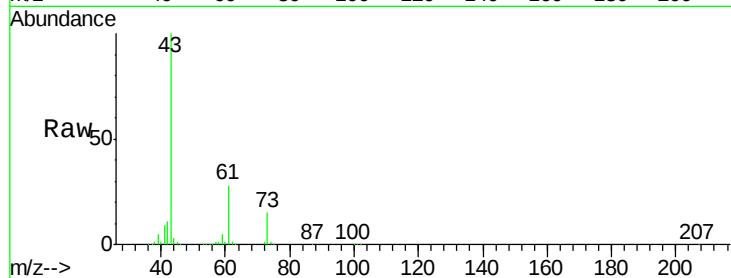
TR-04-081220

Tgt Ion: 63 Resp: 1574

Ion Ratio Lower Upper

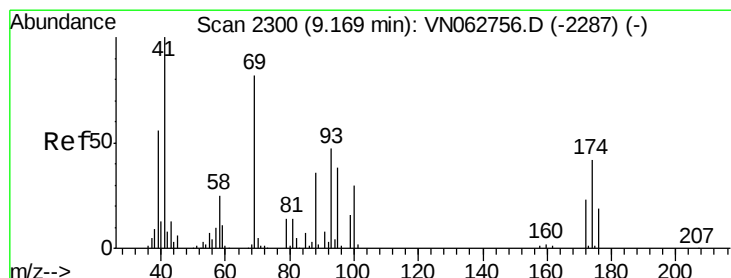
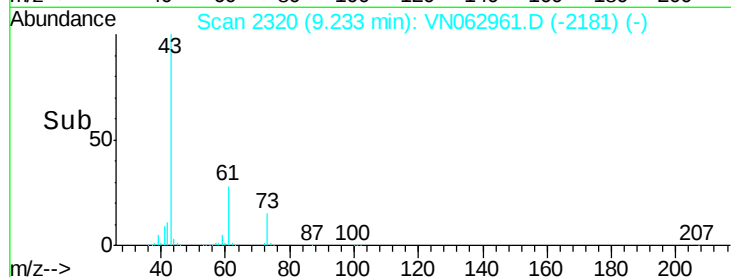
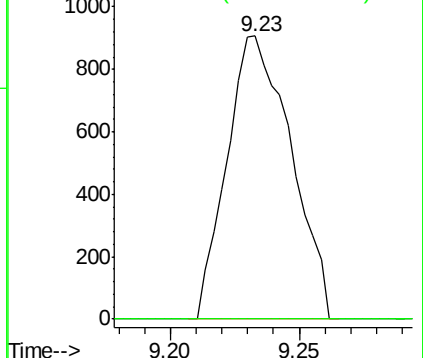
63 100

65 0.0 23.5 35.3#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 1.591 ug/l

RT: 9.15 min Scan# 2294

Delta R.T. -0.02 min

Lab File: VN062961.D

Acq: 15 Aug 2020 2:36

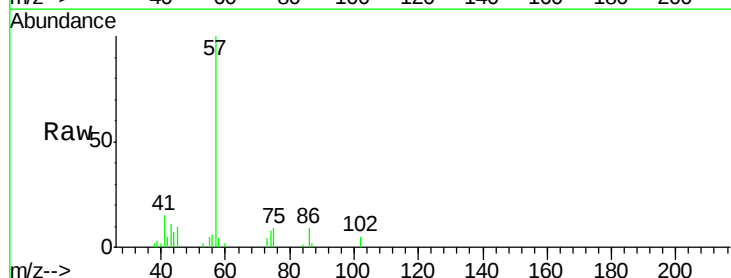
Tgt Ion: 41 Resp: 4617

Ion Ratio Lower Upper

41 100

69 0.0 67.4 101.2#

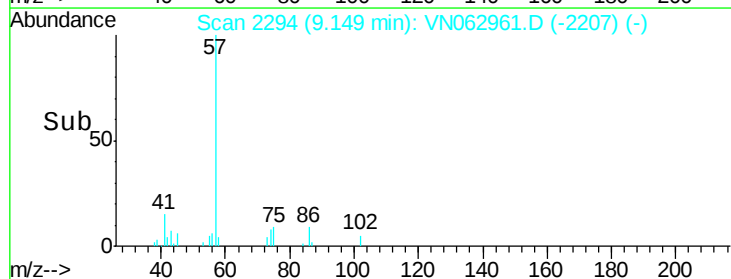
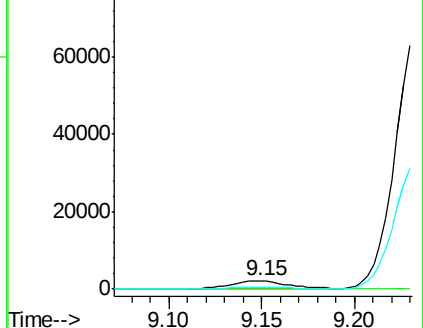
39 0.0 47.6 71.4#

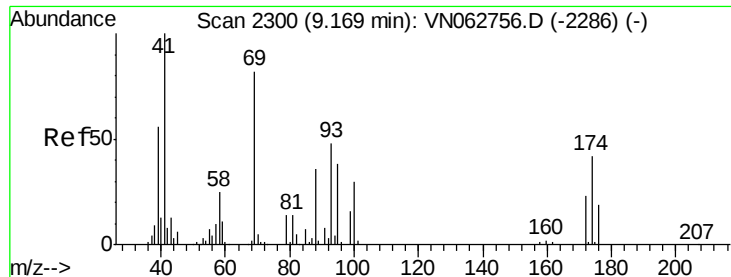


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

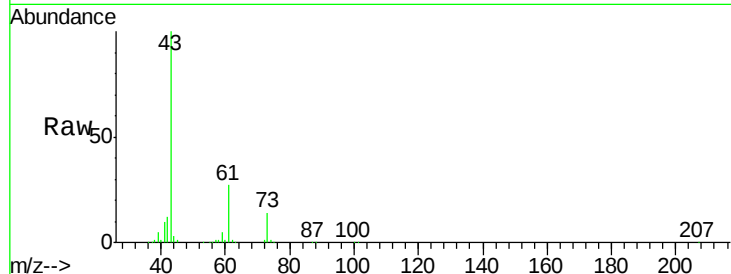




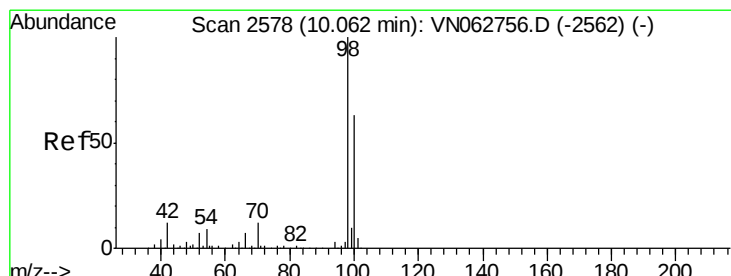
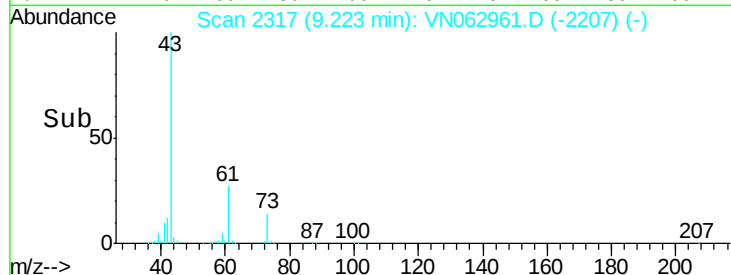
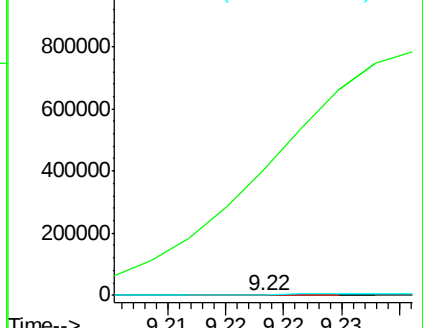
#49
1,4-Dioxane
Concen: 1.190 ug/l
RT: 9.22 min Scan# 2317
Delta R.T. 0.05 min
Lab File: VN062961.D
Acq: 15 Aug 2020 2:36

Instrument :
MSVOA_N
ClientSampled :
TR-04-081220

Tgt Ion: 88 Resp: 64
Ion Ratio Lower Upper
88 100
43 0.0 29.5 44.3#
58 0.0 59.8 89.8#

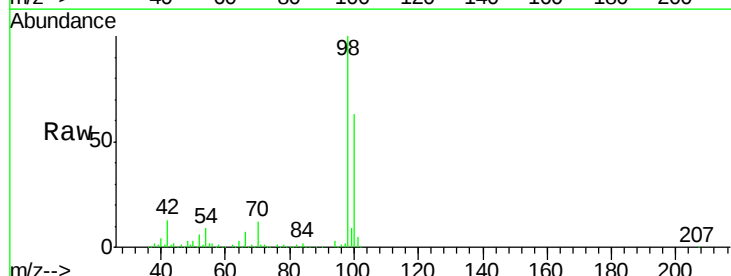


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

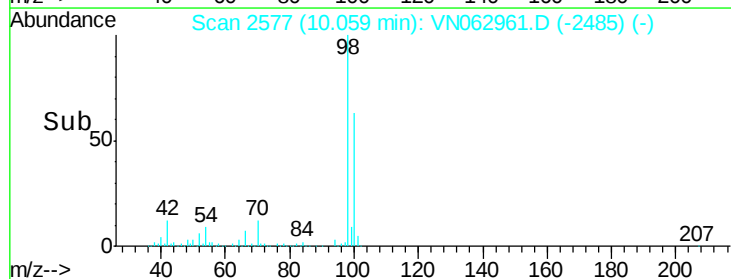
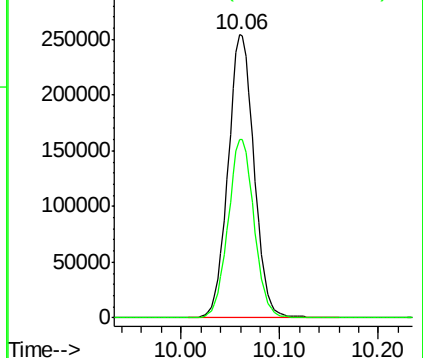


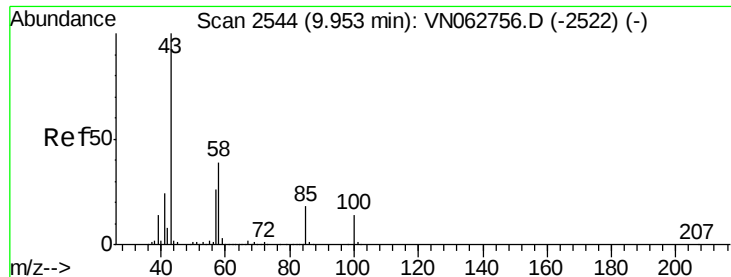
#50
Toluene-d8
Concen: 50.297 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN062961.D
Acq: 15 Aug 2020 2:36

Tgt Ion: 98 Resp: 467222
Ion Ratio Lower Upper
98 100
100 63.1 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

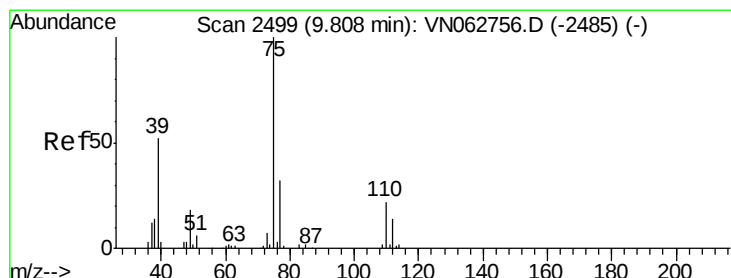
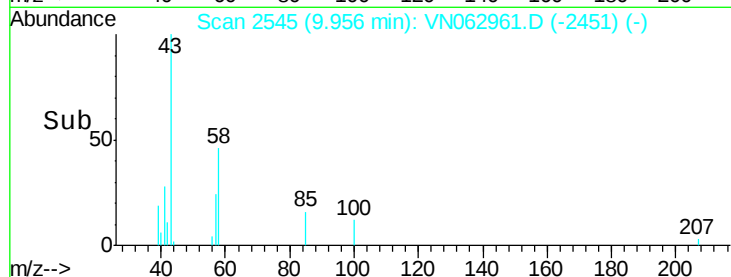
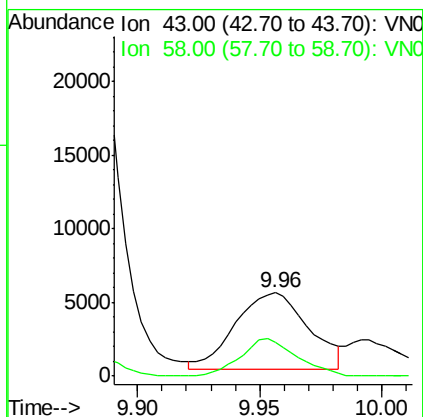
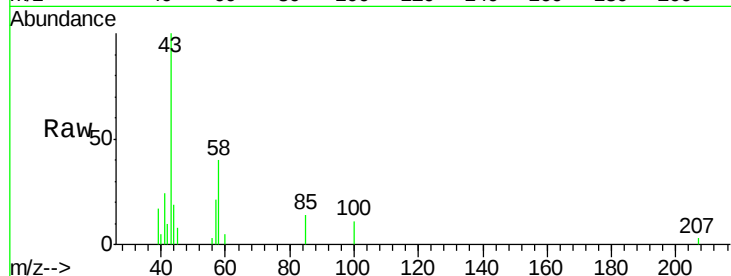




#51
 4-Methyl-2-Pentanone
 Concen: 2.826 ug/l
 RT: 9.96 min Scan# 2545
 Delta R.T. 0.00 min
 Lab File: VN062961.D
 Acq: 15 Aug 2020 2:36

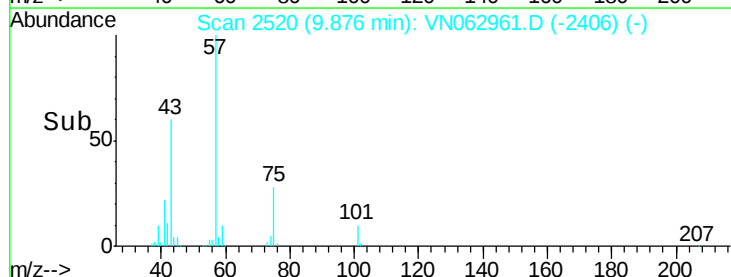
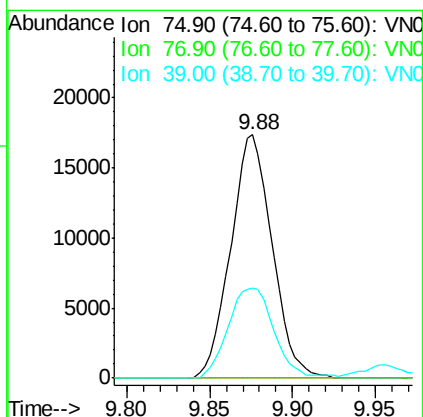
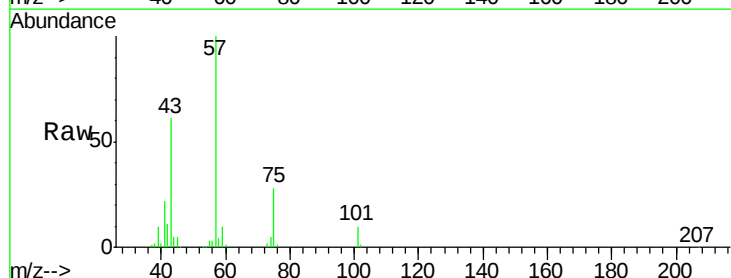
Instrument :
 MSVOA_N
 ClientSampleId :
 TR-04-081220

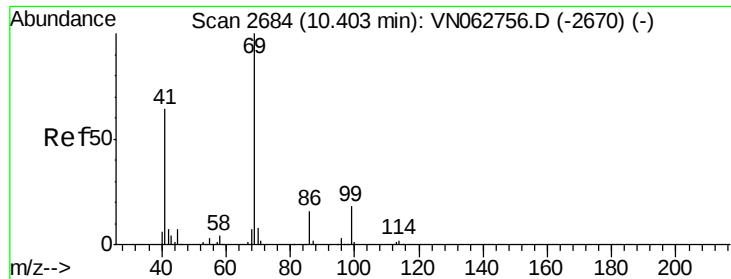
Tgt Ion: 43 Resp: 10789
 Ion Ratio Lower Upper
 43 100
 58 37.5 31.1 46.7



#54
 cis-1,3-Dichloropropene
 Concen: 6.797 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN062961.D
 Acq: 15 Aug 2020 2:36

Tgt Ion: 75 Resp: 30217
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.5 38.3#
 39 37.2 41.9 62.9#





#56

Ethyl methacrylate

Concen: 0.589 ug/l

RT: 10.51 min Scan# 2718

Delta R.T. 0.11 min

Lab File: VN062961.D

Acq: 15 Aug 2020 2:36

Instrument :

MSVOA_N

ClientSampled :

TR-04-081220

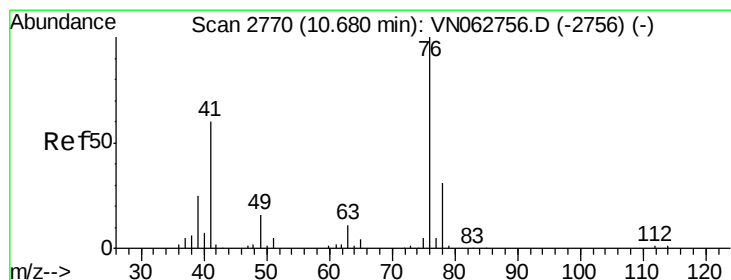
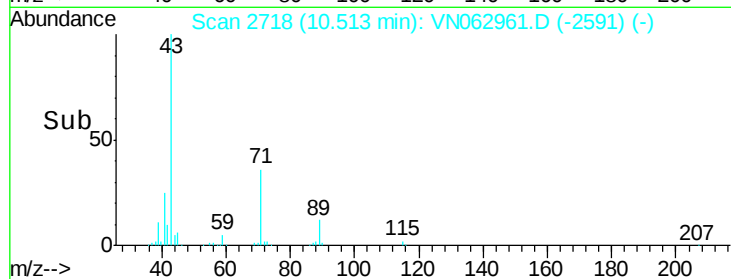
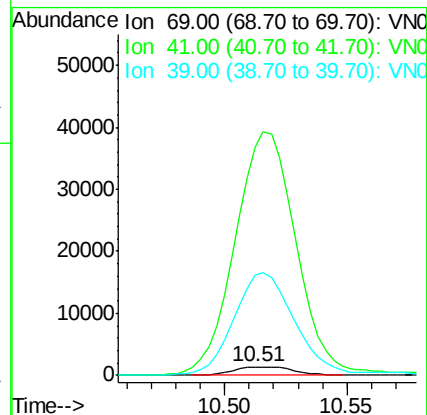
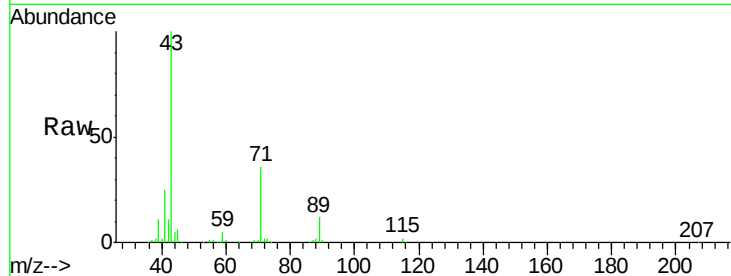
Tgt Ion: 69 Resp: 2364

Ion Ratio Lower Upper

69 100

41 2911.1 52.2 78.2#

39 1207.2 30.9 46.3#



#57

1,3-Dichloropropane

Concen: 1.187 ug/l

RT: 10.73 min Scan# 2787

Delta R.T. 0.05 min

Lab File: VN062961.D

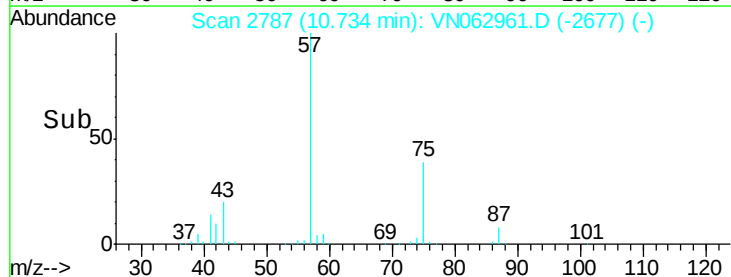
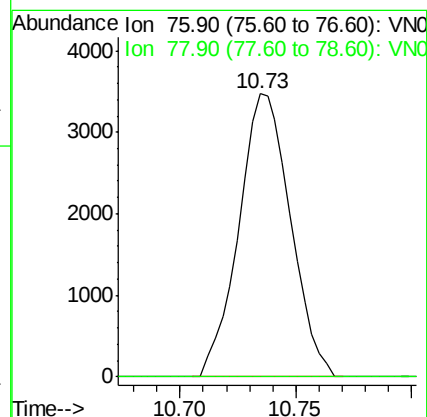
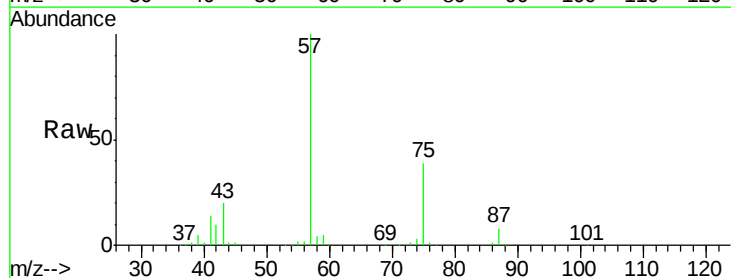
Acq: 15 Aug 2020 2:36

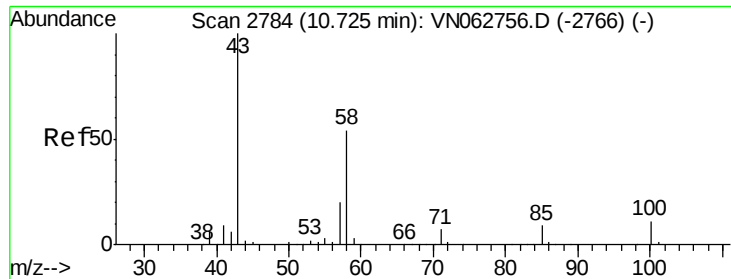
Tgt Ion: 76 Resp: 5373

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.0#

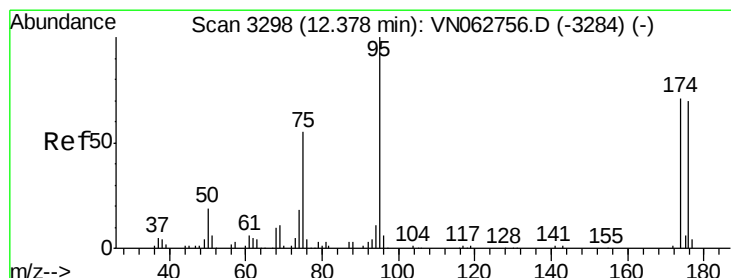
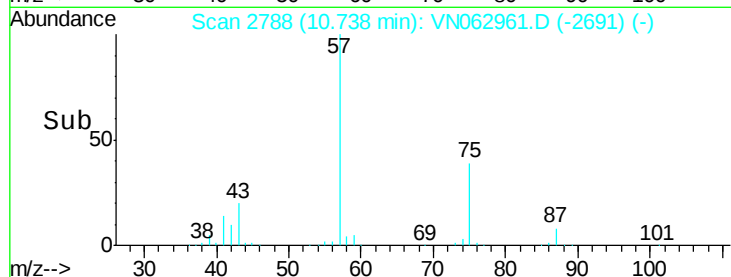
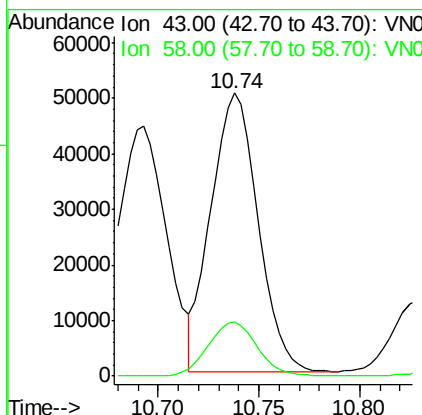
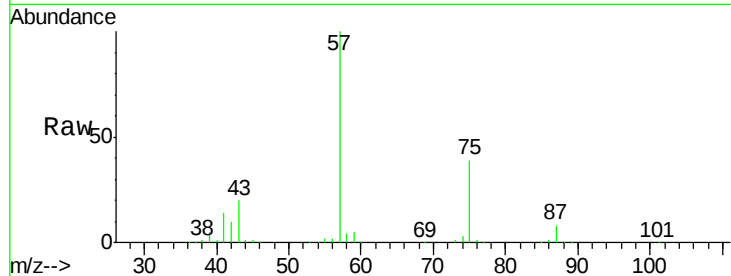




#59
 2-Hexanone
 Concen: 28.672 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.01 min
 Lab File: VN062961.D
 Acq: 15 Aug 2020 2:36

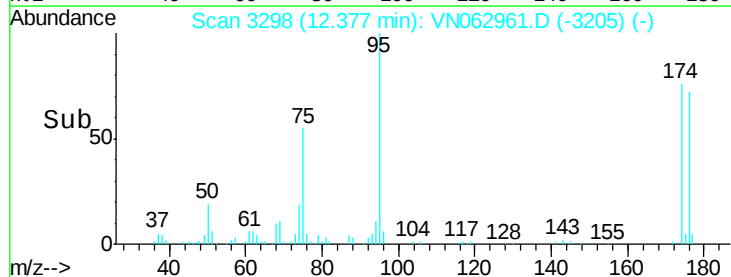
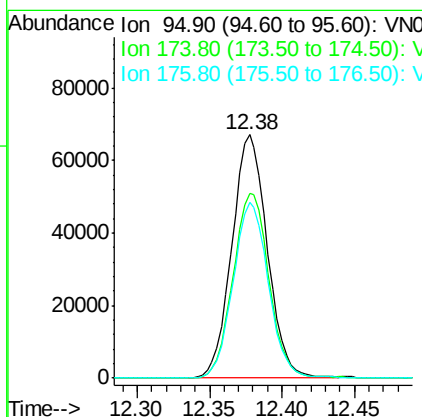
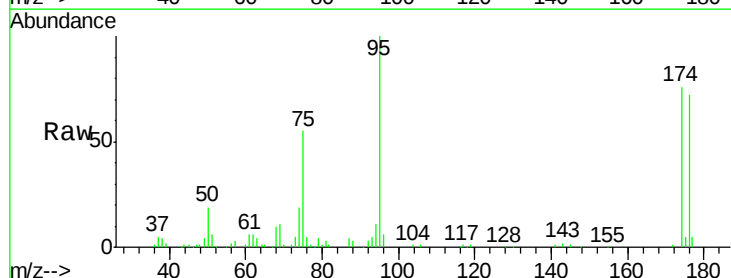
Instrument :
 MSVOA_N
 ClientSampled :
 TR-04-081220

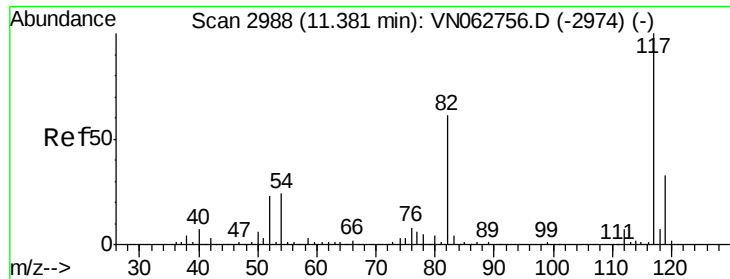
Tgt Ion: 43 Resp: 81661
 Ion Ratio Lower Upper
 43 100
 58 20.2 26.7 80.1#



#62
 4-Bromofluorobenzene
 Concen: 32.341 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.00 min
 Lab File: VN062961.D
 Acq: 15 Aug 2020 2:36

Tgt Ion: 95 Resp: 113532
 Ion Ratio Lower Upper
 95 100
 174 77.2 0.0 144.8
 176 72.1 0.0 142.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN062961.D

Acq: 15 Aug 2020 2:36

Instrument :

MSVOA_N

ClientSampleId :

TR-04-081220

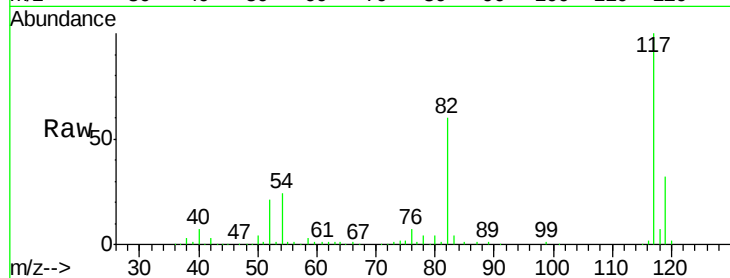
Tgt Ion:117 Resp: 247522

Ion Ratio Lower Upper

117 100

82 59.9 49.0 73.4

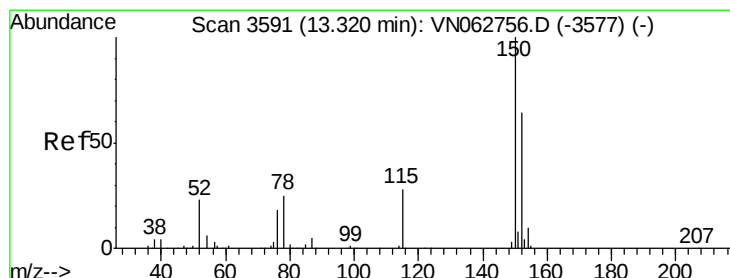
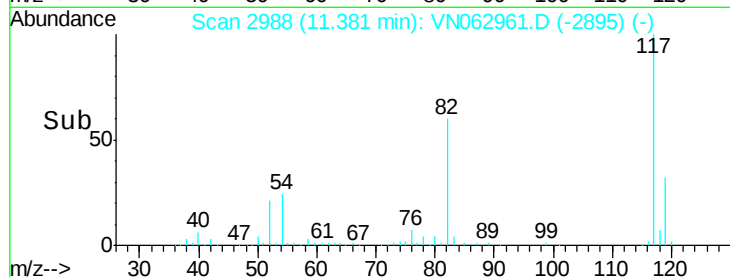
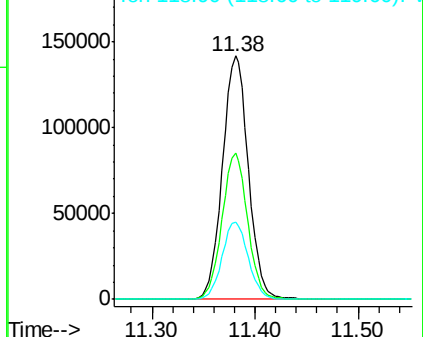
119 31.9 26.2 39.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. -0.00 min

Lab File: VN062961.D

Acq: 15 Aug 2020 2:36

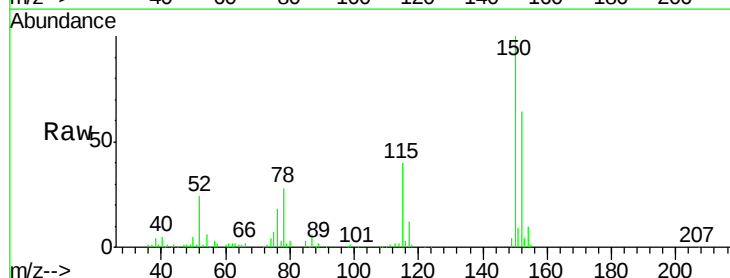
Tgt Ion:152 Resp: 89379

Ion Ratio Lower Upper

152 100

115 62.8 31.6 94.8

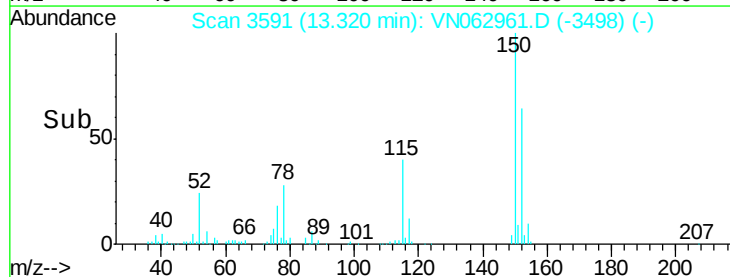
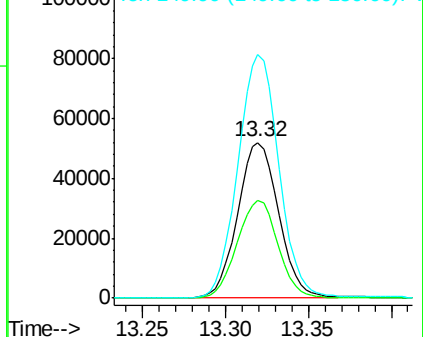
150 158.0 0.0 349.2

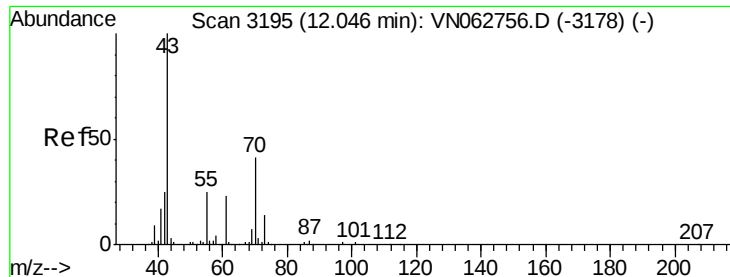


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

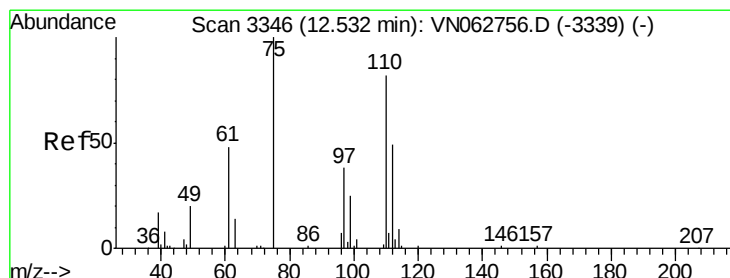
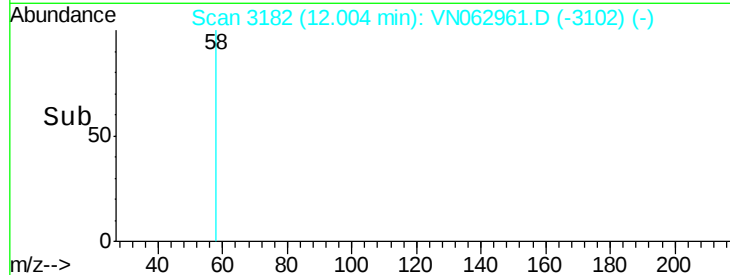
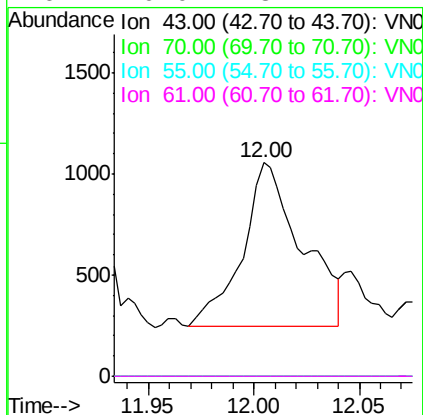
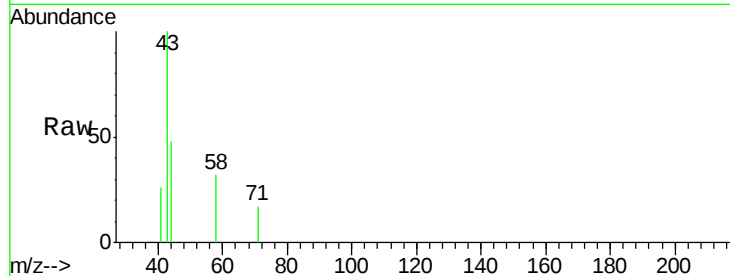




#74
N-amyI acetate
Concen: 0.581 ug/l
RT: 12.00 min Scan# 3182
Delta R.T. -0.04 min
Lab File: VN062961.D
Acq: 15 Aug 2020 2:36

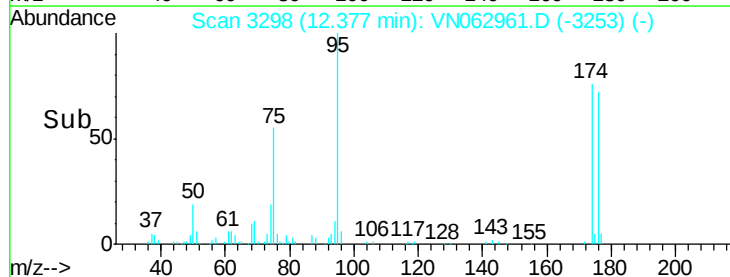
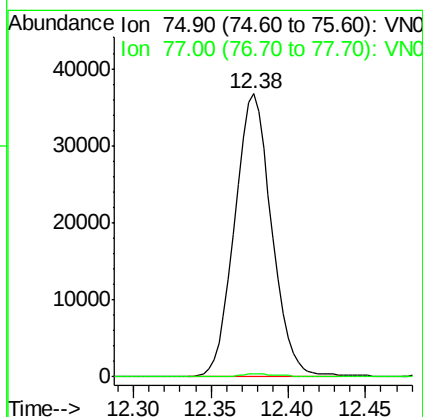
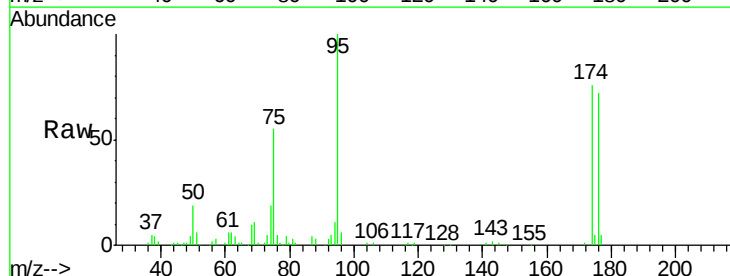
Instrument :
MSVOA_N
ClientSampleId :
TR-04-081220

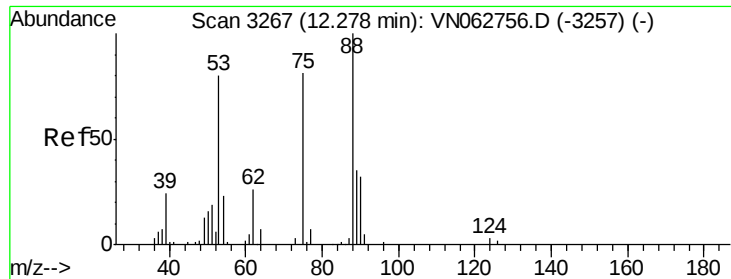
Tgt Ion: 43 Resp: 1585
Ion Ratio Lower Upper
43 100
70 0.0 32.3 48.5#
55 0.0 20.2 30.2#
61 0.0 18.2 27.4#



#76
1,2,3-Trichloropropane
Concen: 25.344 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.15 min
Lab File: VN062961.D
Acq: 15 Aug 2020 2:36

Tgt Ion: 75 Resp: 61090
Ion Ratio Lower Upper
75 100
77 1.0 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 77.368 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062961.D

Acq: 15 Aug 2020 2:36

Instrument :

MSVOA_N

ClientSampleId :

TR-04-081220

Tgt Ion: 75 Resp: 61090

Ion Ratio Lower Upper

75 100

53 0.0 79.1 118.7#

89 0.0 36.2 54.2#

