

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN081420\
 Data File : VN062963.D
 Acq On : 15 Aug 2020 3:24
 Operator : JC/MD
 Sample : L3682-08
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 20200515-2801-C

Quant Time: Aug 17 09:34:37 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	132416	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	237592	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	250932	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	90396	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	112920	51.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.14%	
35) Dibromofluoromethane	7.55	113	80087	49.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.56%	
50) Toluene-d8	10.06	98	318803	50.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.48%	
62) 4-Bromofluorobenzene	12.38	95	112235	46.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.62%	

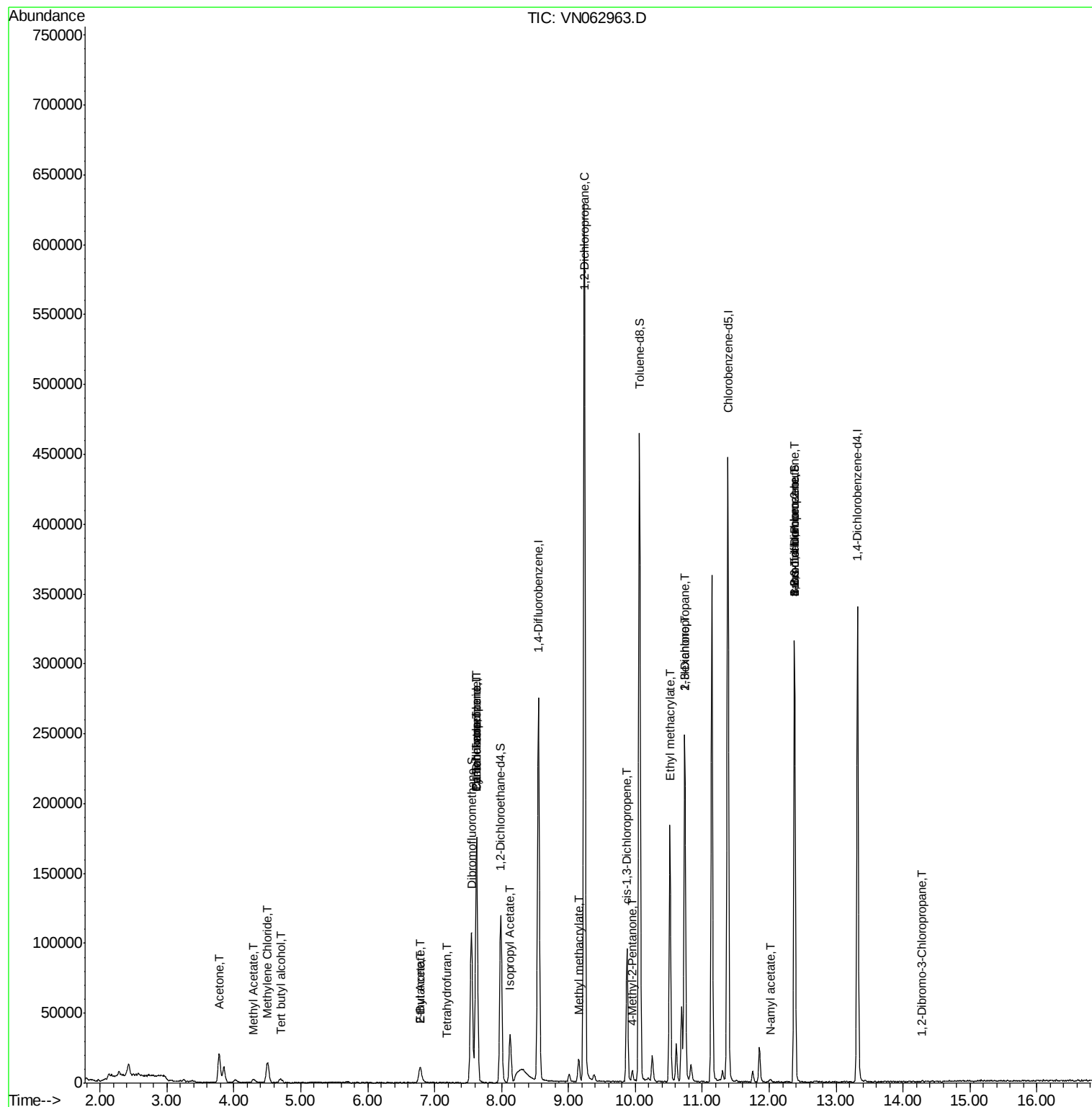
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.70	59	723	2.015	ug/l #	72
16) Acetone	3.78	43	35138	44.409	ug/l	97
17) Carbon Disulfide	4.01	76	2901	Below Cal	#	74
18) Methyl Acetate	4.29	43	5071	1.617	ug/l #	70
20) Methylene Chloride	4.51	84	11655	7.401	ug/l	91
25) 2-Butanone	6.80	43	7803	6.963	ug/l	99
29) Tetrahydrofuran	7.18	42	403	0.554	ug/l #	33
31) Cyclohexane	7.62	56	3054	1.150	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	11066	4.783	ug/l #	52
37) Ethyl Acetate	6.80	43	7803	3.229	ug/l #	67
38) Carbon Tetrachloride	7.63	117	14278	5.218	ug/l #	15
43) Isopropyl Acetate	8.13	43	40657	10.086	ug/l	98
45) 1,2-Dichloropropane	9.23	63	379	0.203	ug/l #	45
48) Methyl methacrylate	9.15	41	2808	1.416	ug/l #	13
51) 4-Methyl-2-Pentanone	9.95	43	4801	1.841	ug/l #	86
54) cis-1,3-Dichloropropene	9.88	75	16368	5.390	ug/l #	62
56) Ethyl methacrylate	10.51	69	1301	0.475	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	2287	0.739	ug/l #	43
59) 2-Hexanone	10.74	43	35650	18.325	ug/l #	54
71) Bromoform	12.37	173	587	0.341	ug/l #	1
74) N-amyl acetate	12.01	43	1580	0.573	ug/l #	44
76) 1,2,3-Trichloropropane	12.38	75	60254	24.716	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	60254	75.450	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	14.29	75	366	0.711	ug/l #	10

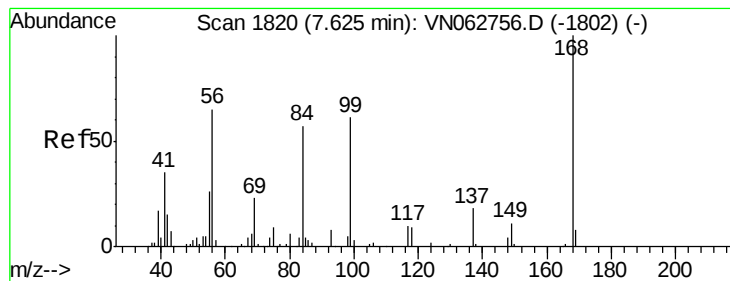
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1820

Delta R.T. -0.00 min

Lab File: VN062963.D

Acq: 15 Aug 2020 3:24

Instrument :

MSVOA_N

ClientSampleId :

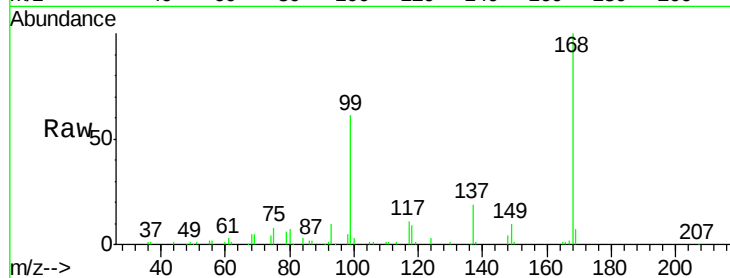
20200515-2801-C

Tgt Ion: 168 Resp: 132416

Ion Ratio Lower Upper

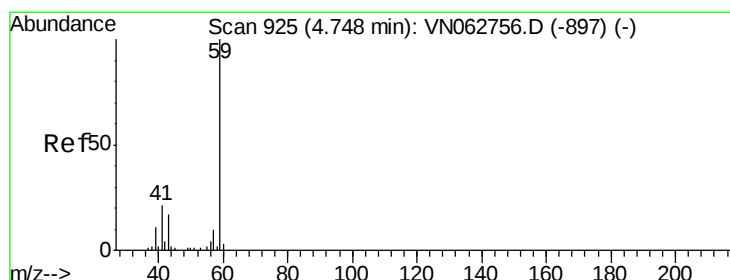
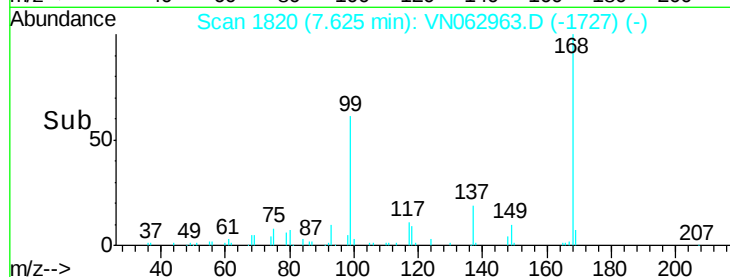
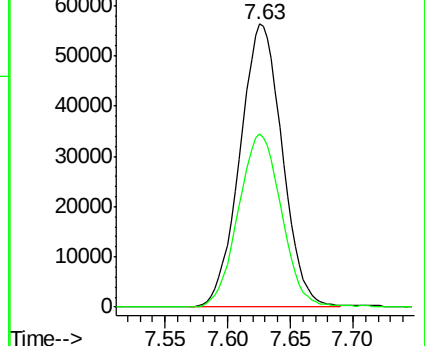
168 100

99 61.2 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: 2.015 ug/l

RT: 4.70 min Scan# 911

Delta R.T. -0.05 min

Lab File: VN062963.D

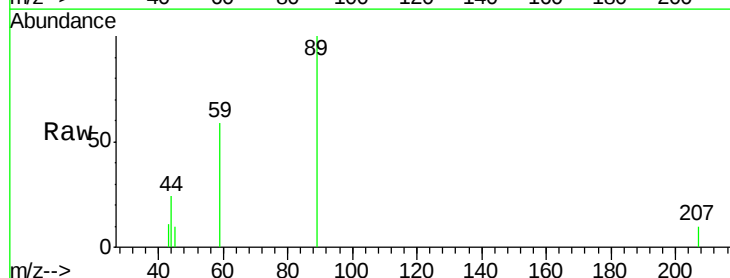
Acq: 15 Aug 2020 3:24

Tgt Ion: 59 Resp: 723

Ion Ratio Lower Upper

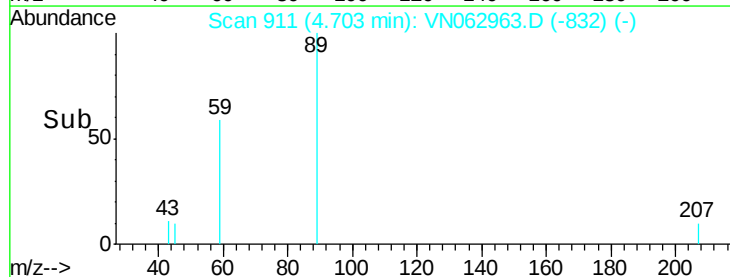
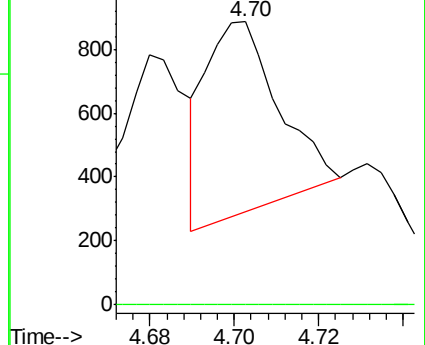
59 100

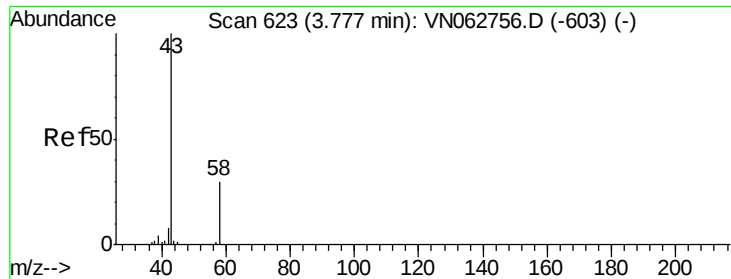
57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#16

Acetone

Concen: 44.409 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.00 min

Lab File: VN062963.D

Acq: 15 Aug 2020 3:24

Instrument :

MSVOA_N

ClientSampleId :

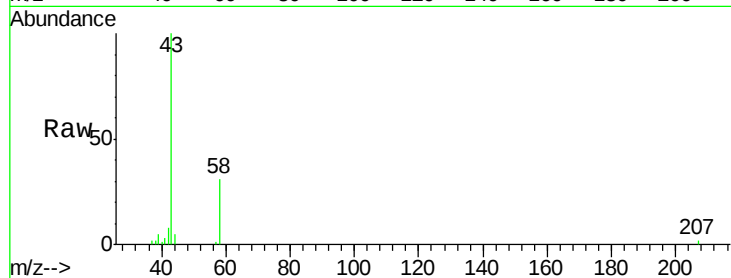
20200515-2801-C

Tgt Ion: 43 Resp: 35138

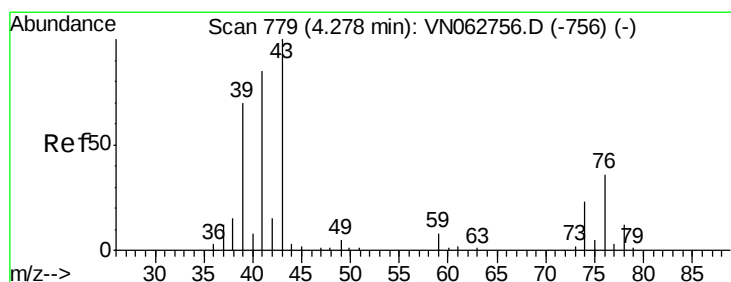
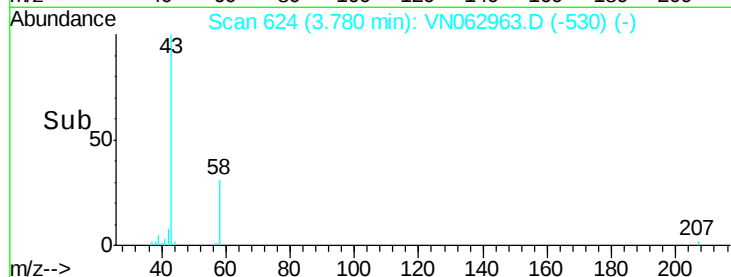
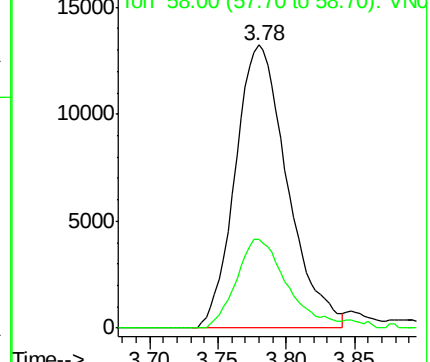
Ion Ratio Lower Upper

43 100

58 31.5 24.1 36.1



Abundance Ion 43.00 (42.70 to 43.70): VN062756.D (-603) (-)



#18

Methyl Acetate

Concen: 1.617 ug/l

RT: 4.29 min Scan# 783

Delta R.T. 0.01 min

Lab File: VN062963.D

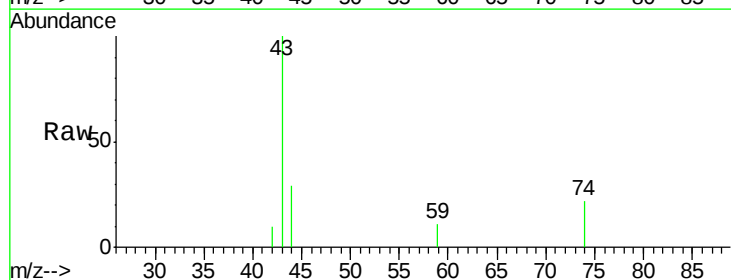
Acq: 15 Aug 2020 3:24

Tgt Ion: 43 Resp: 5071

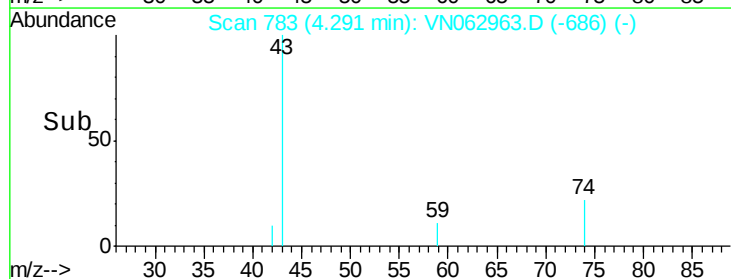
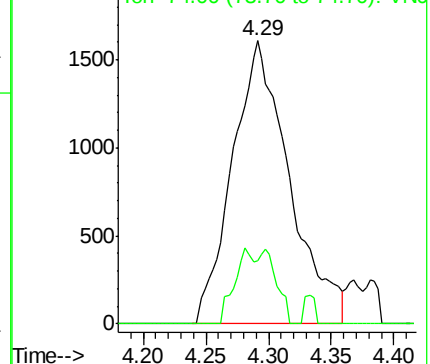
Ion Ratio Lower Upper

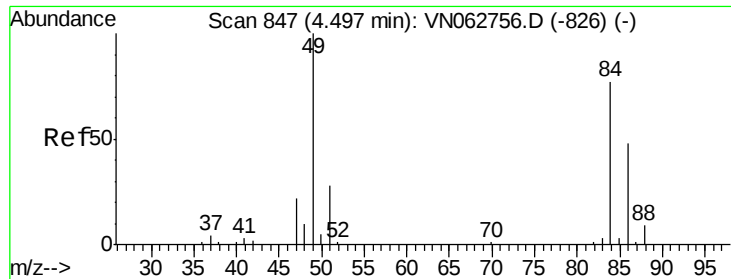
43 100

74 8.9 18.6 28.0#



Abundance Ion 43.00 (42.70 to 43.70): VN062756.D (-756) (-)

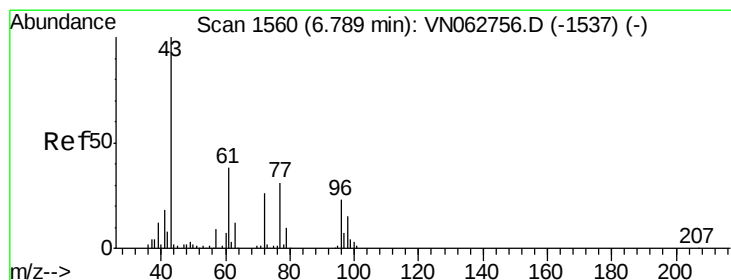
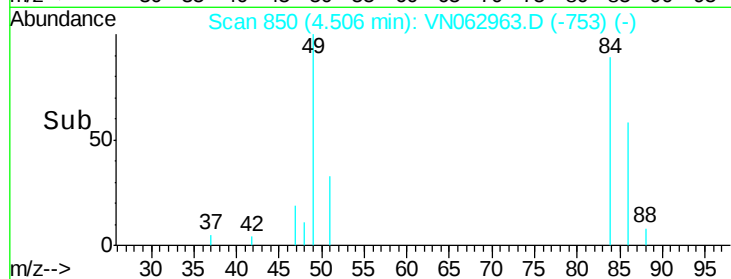
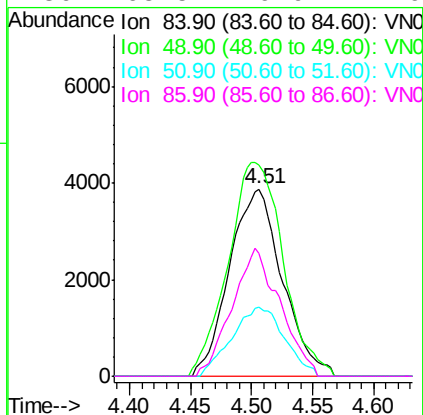
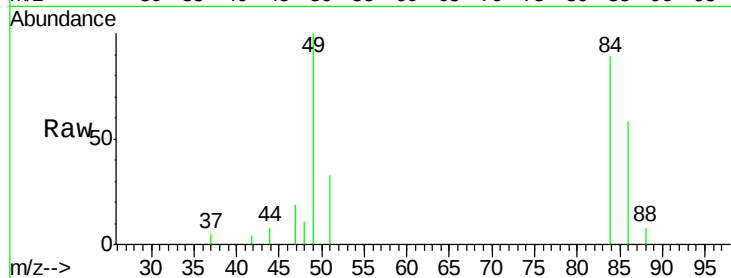




#20
Methylene Chloride
Concen: 7.401 ug/l
RT: 4.51 min Scan# 850
Delta R.T. 0.01 min
Lab File: VN062963.D
Acq: 15 Aug 2020 3:24

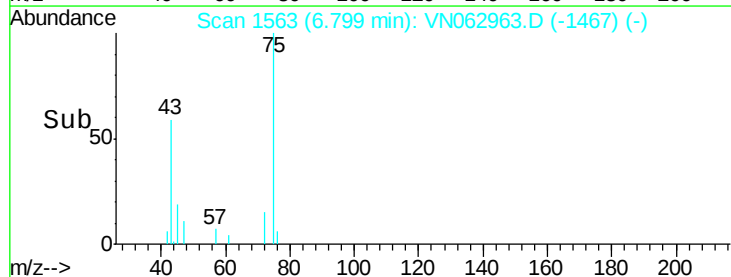
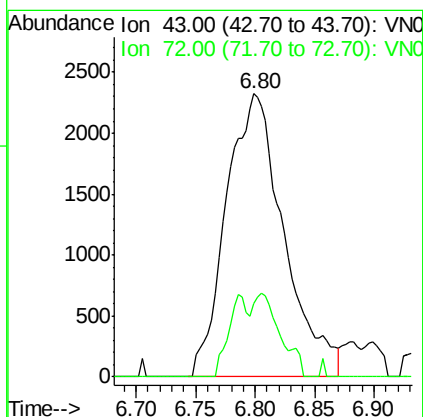
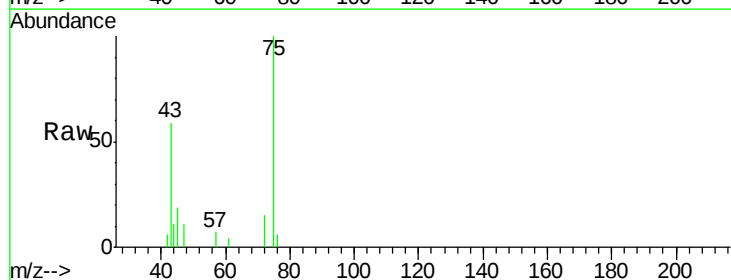
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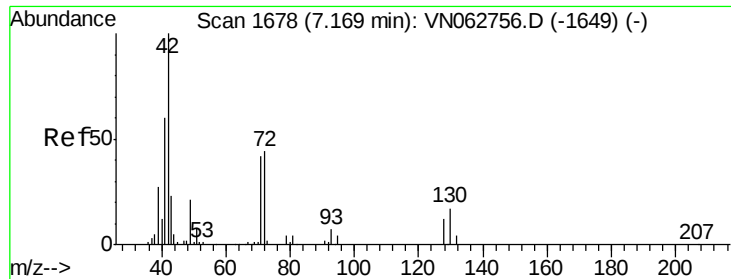
Tgt Ion:	84	Resp:	11655
Ion	Ratio	Lower	Upper
84	100		
49	112.8	103.4	155.2
51	37.1	29.3	43.9
86	65.5	49.9	74.9



#25
2-Butanone
Concen: 6.963 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.01 min
Lab File: VN062963.D
Acq: 15 Aug 2020 3:24

Tgt Ion:	43	Resp:	7803
Ion	Ratio	Lower	Upper
43	100		
72	25.8	21.1	31.7





#29

Tetrahydrofuran

Concen: 0.554 ug/l

RT: 7.18 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VN062963.D

Acq: 15 Aug 2020 3:24

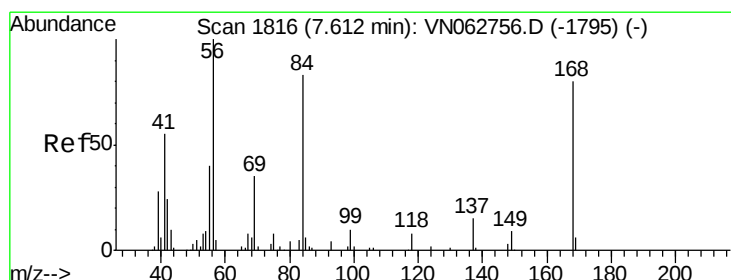
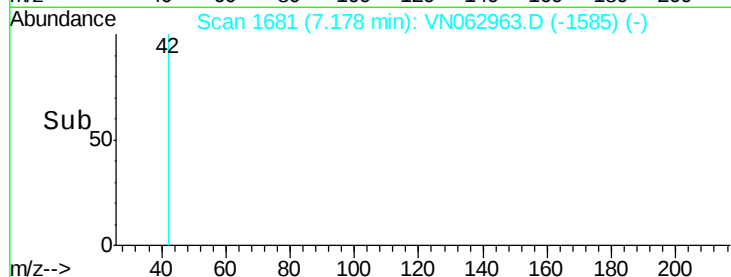
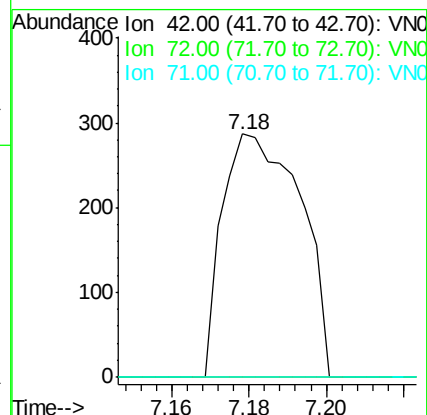
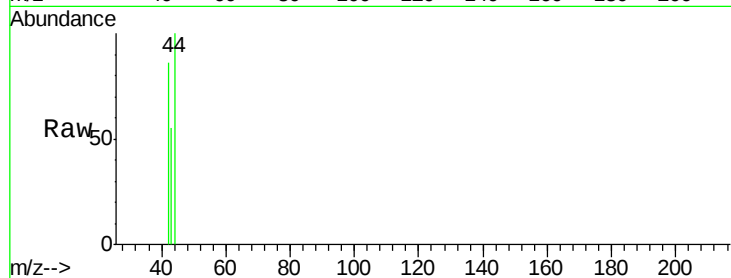
Instrument :

MSVOA_N

ClientSampleId :

20200515-2801-C

Tgt Ion:	42	Resp:	403
Ion	Ratio	Lower	Upper
42	100		
72	0.0	35.0	52.4#
71	0.0	33.2	49.8#



#31

Cyclohexane

Concen: 1.150 ug/l

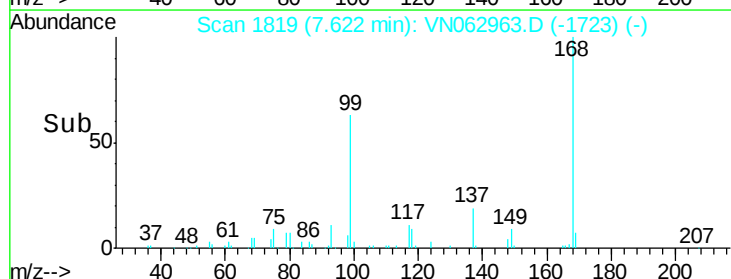
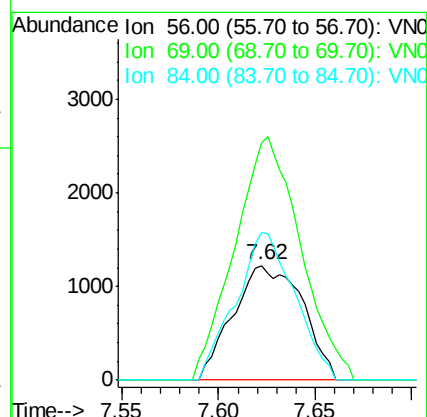
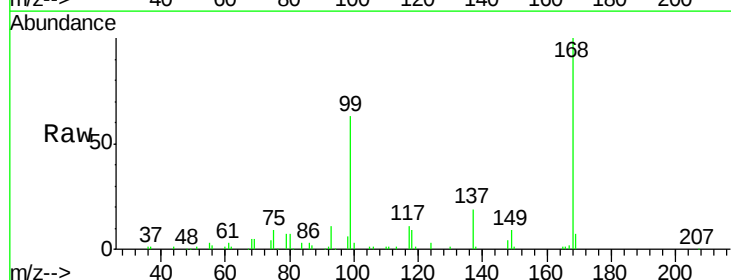
RT: 7.62 min Scan# 1819

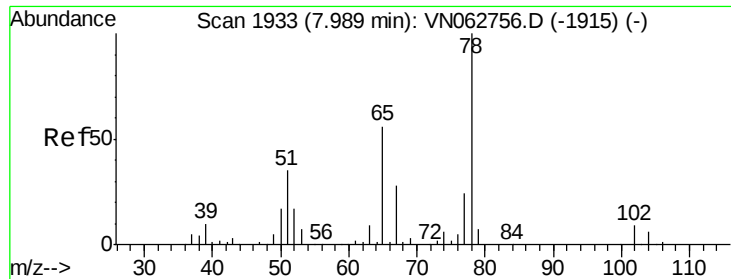
Delta R.T. 0.01 min

Lab File: VN062963.D

Acq: 15 Aug 2020 3:24

Tgt Ion:	56	Resp:	3054
Ion	Ratio	Lower	Upper
56	100		
69	207.3	28.1	42.1#
84	128.5	66.8	100.2#

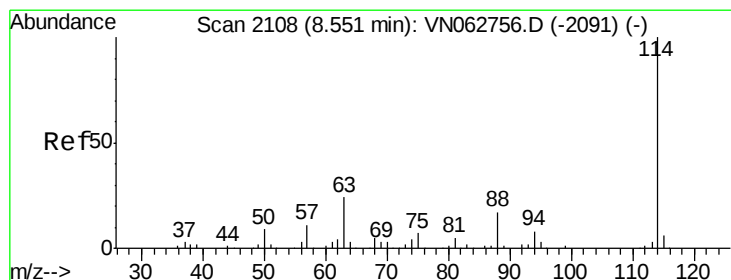
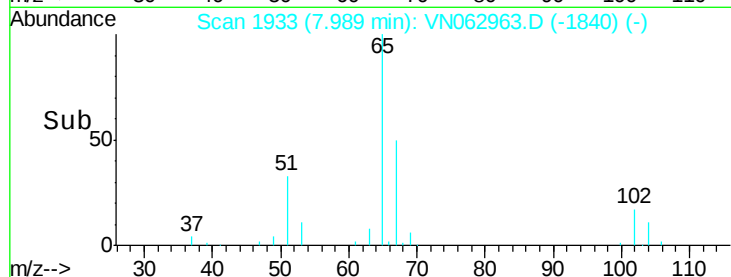
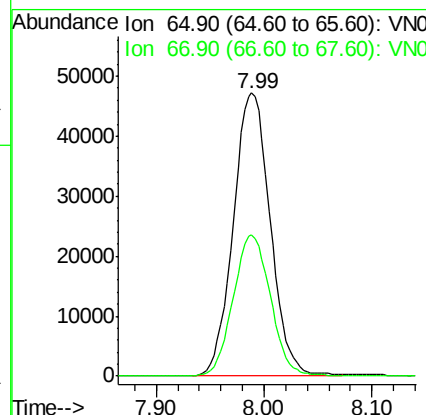
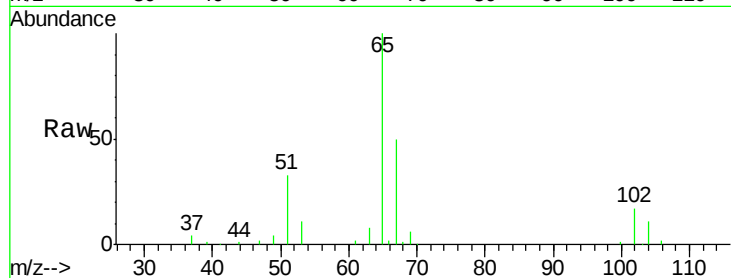




#33
 1,2-Dichloroethane-d4
 Concen: 51.568 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. -0.00 min
 Lab File: VN062963.D
 Acq: 15 Aug 2020 3:24

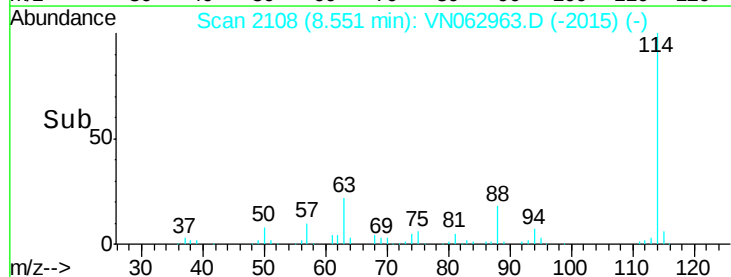
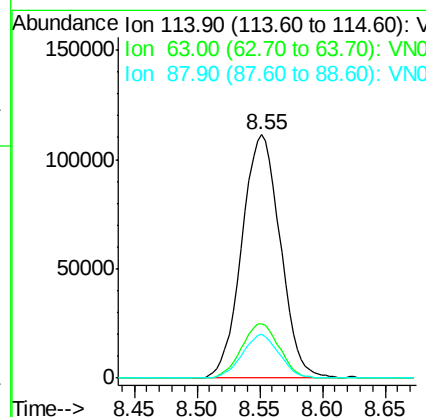
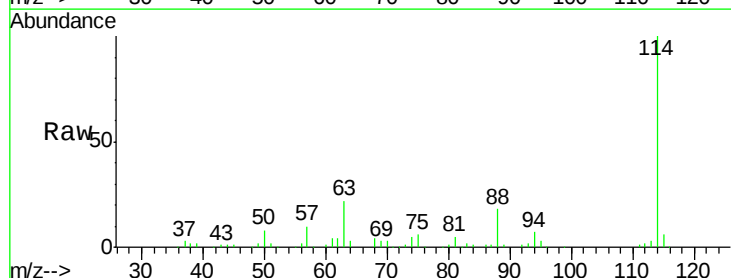
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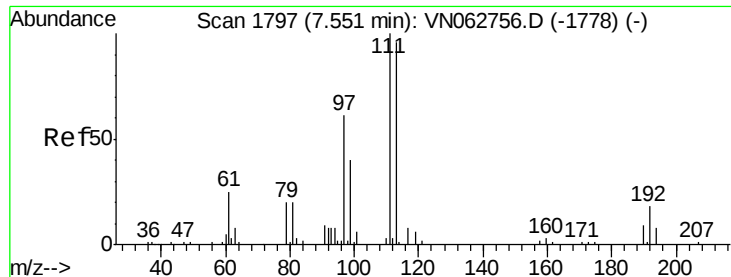
Tgt Ion: 65 Resp: 112920
 Ion Ratio Lower Upper
 65 100
 67 50.2 0.0 101.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062963.D
 Acq: 15 Aug 2020 3:24

Tgt Ion: 114 Resp: 237592
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 47.6
 88 17.8 0.0 34.4

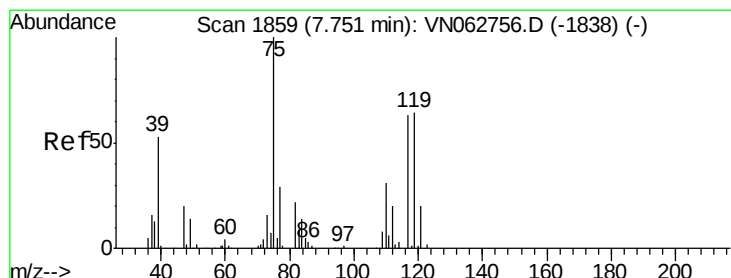
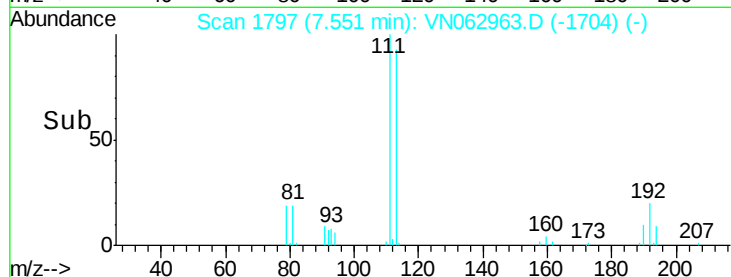
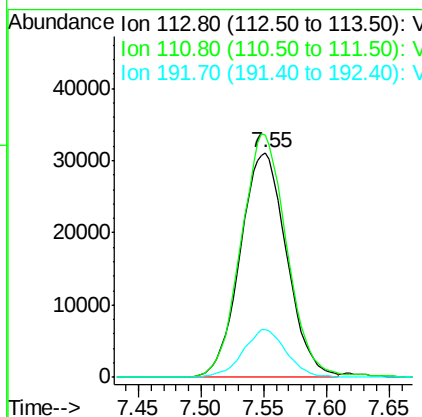
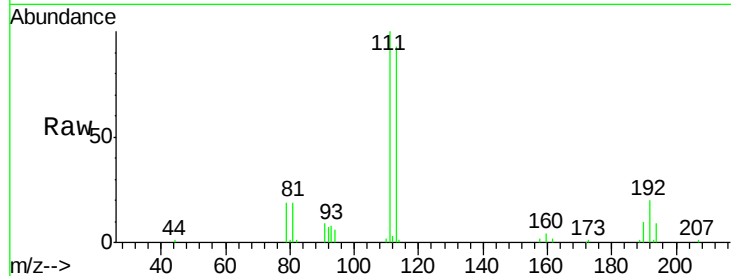




#35
 Dibromofluoromethane
 Concen: 49.276 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. -0.00 min
 Lab File: VN062963.D
 Acq: 15 Aug 2020 3:24

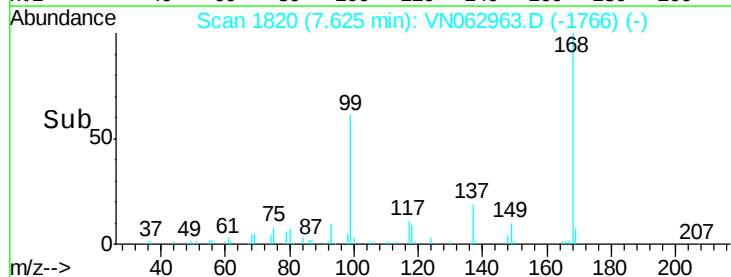
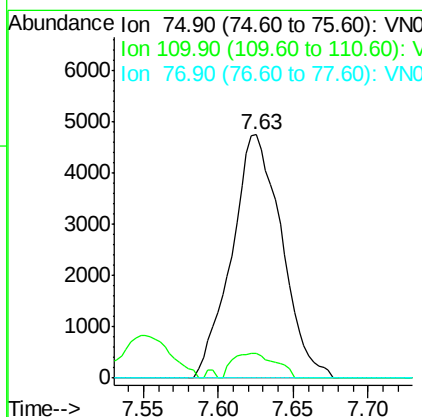
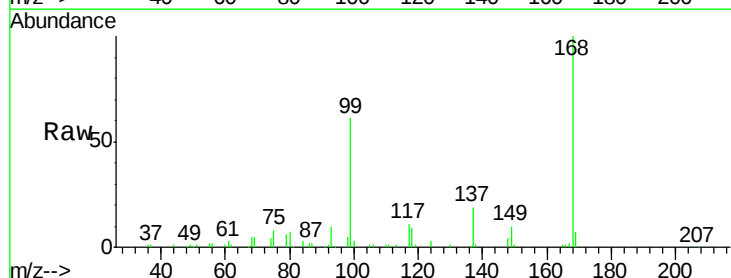
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 20200515-2801-C

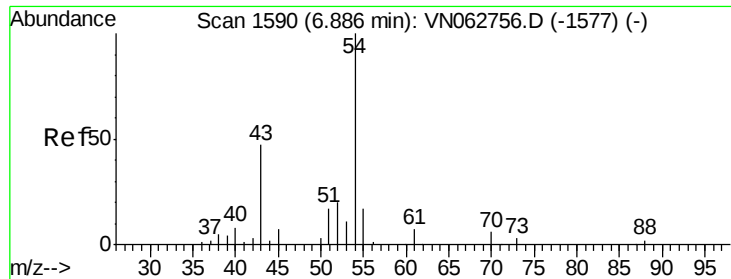
Tgt Ion: 113 Resp: 80087
 Ion Ratio Lower Upper
 113 100
 111 106.7 81.8 122.6
 192 20.0 15.0 22.4



#36
 1,1-Dichloropropene
 Concen: 4.783 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062963.D
 Acq: 15 Aug 2020 3:24

Tgt Ion: 75 Resp: 11066
 Ion Ratio Lower Upper
 75 100
 110 8.7 15.6 46.7#
 77 0.0 24.1 36.1#

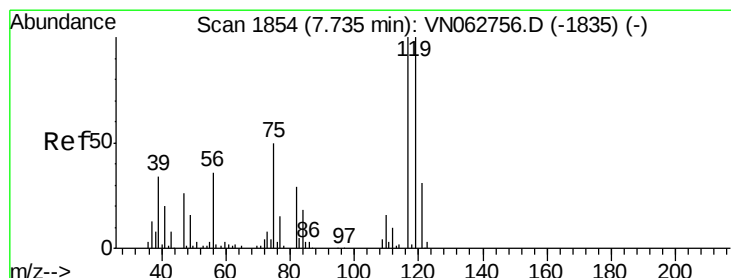
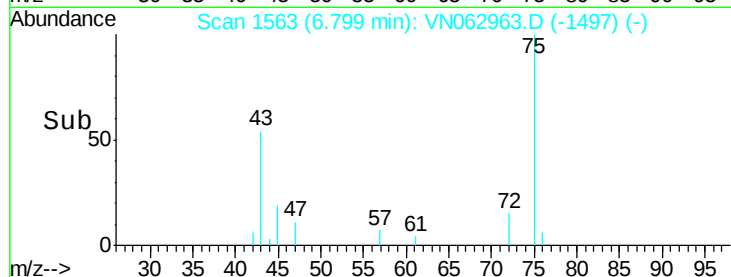
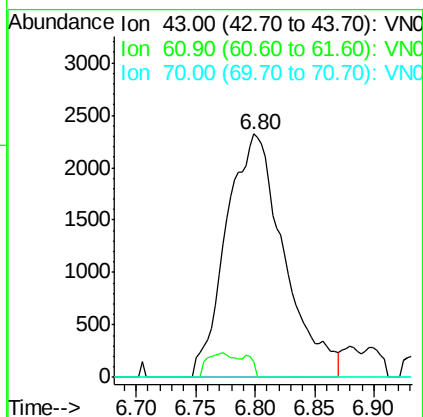
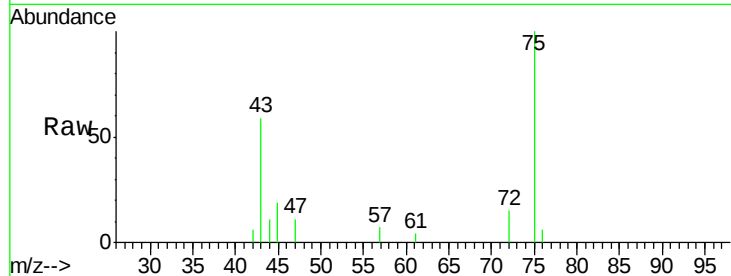




#37
 Ethyl Acetate
 Concen: 3.229 ug/l
 RT: 6.80 min Scan# 1563
 Delta R.T. -0.09 min
 Lab File: VN062963.D
 Acq: 15 Aug 2020 3:24

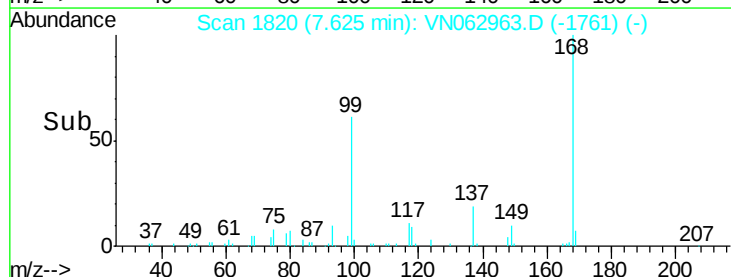
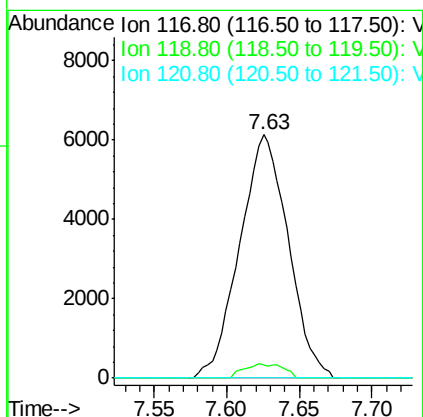
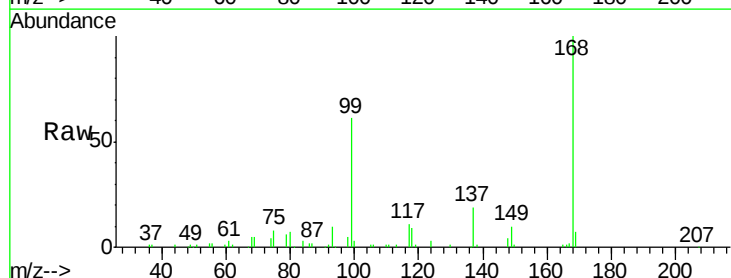
Instrument :
 MSVOA_N
 ClientSampleId :
 20200515-2801-C

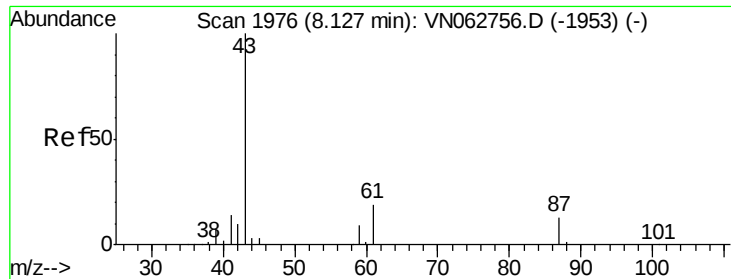
Tgt Ion: 43 Resp: 7803
 Ion Ratio Lower Upper
 43 100
 61 0.0 12.1 18.1#
 70 0.0 8.3 12.5#



#38
 Carbon Tetrachloride
 Concen: 5.218 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN062963.D
 Acq: 15 Aug 2020 3:24

Tgt Ion: 117 Resp: 14278
 Ion Ratio Lower Upper
 117 100
 119 5.4 79.4 119.2#
 121 0.0 24.9 37.3#





#43

Isopropyl Acetate

Concen: 10.086 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062963.D

Acq: 15 Aug 2020 3:24

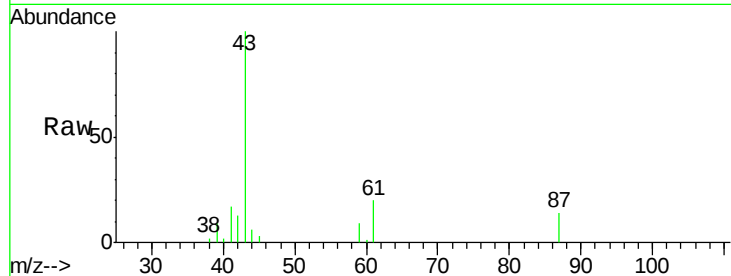
Instrument :

MSVOA_N

ClientSampleId :

20200515-2801-C

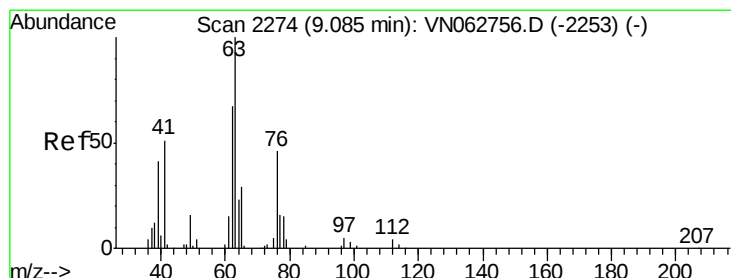
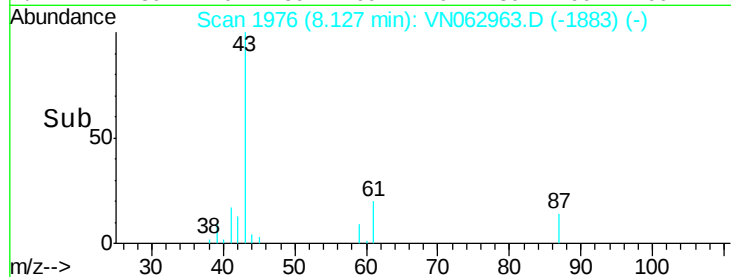
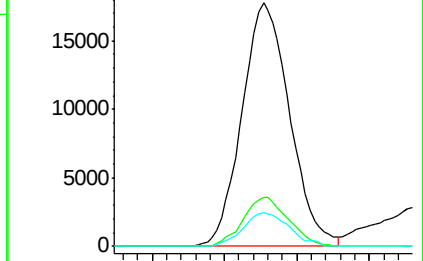
Tgt Ion:	43	Resp:	40657
Ion	Ratio	Lower	Upper
43	100		
61	19.1	15.8	23.6
87	13.3	9.9	14.9



Abundance Ion 43.00 (42.70 to 43.70): VN062756.D (-1953) (-)

Ion 61.00 (60.70 to 61.70): VN062756.D (-1953) (-)

Ion 87.00 (86.70 to 87.70): VN062756.D (-1953) (-)



#45

1,2-Dichloropropane

Concen: 0.203 ug/l

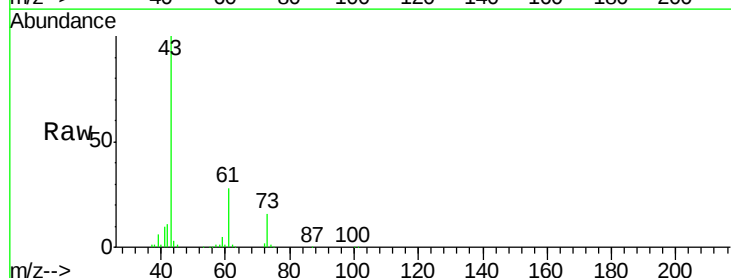
RT: 9.23 min Scan# 2319

Delta R.T. 0.14 min

Lab File: VN062963.D

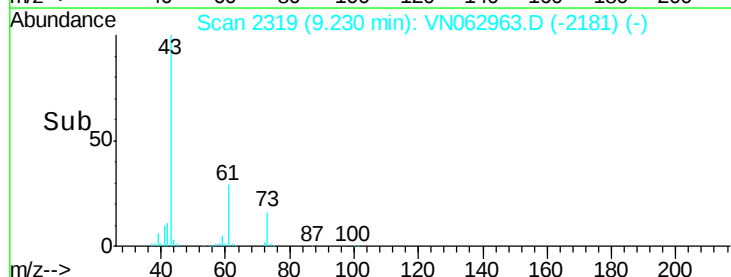
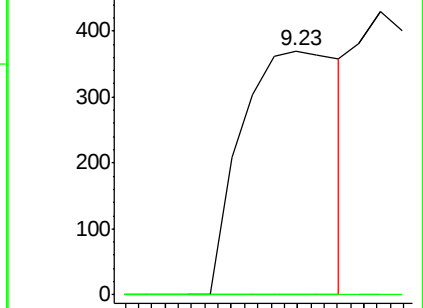
Acq: 15 Aug 2020 3:24

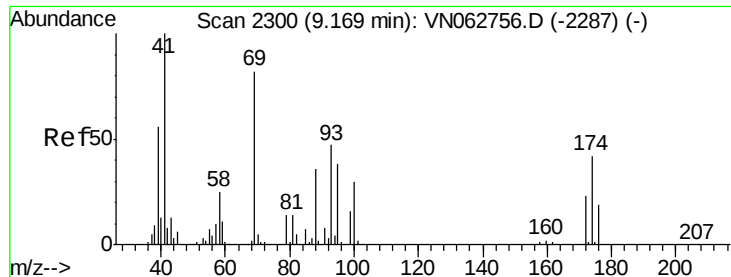
Tgt Ion:	63	Resp:	379
Ion	Ratio	Lower	Upper
63	100		
65	0.0	23.5	35.3#



Abundance Ion 62.90 (62.60 to 63.60): VN062756.D (-2253) (-)

Ion 64.90 (64.60 to 65.60): VN062756.D (-2253) (-)

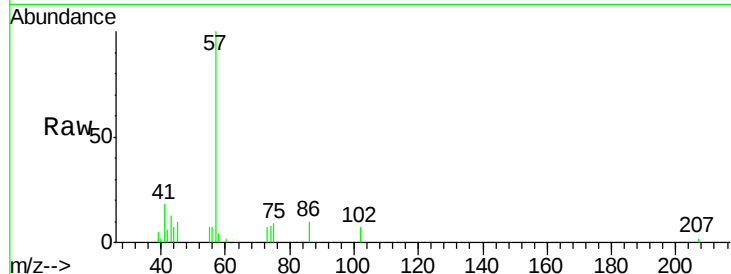




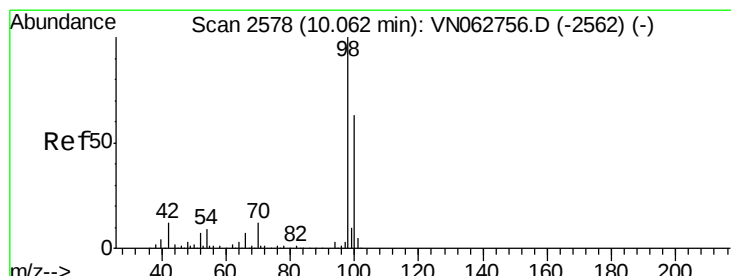
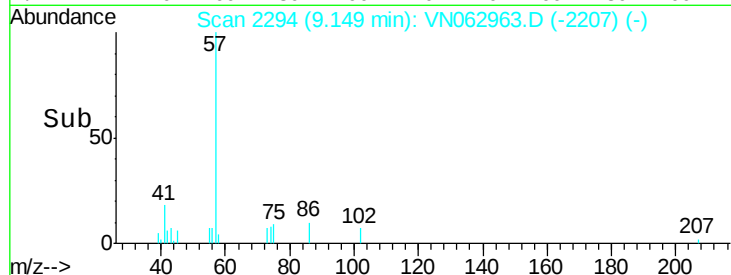
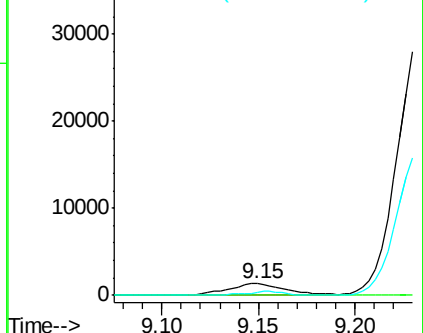
#48
Methyl methacrylate
Concen: 1.416 ug/l
RT: 9.15 min Scan# 2294
Delta R.T. -0.02 min
Lab File: VN062963.D
Acq: 15 Aug 2020 3:24

Instrument :
MSVOA_N
ClientSampleId :
20200515-2801-C

Tgt Ion: 41 Resp: 2808
Ion Ratio Lower Upper
41 100
69 0.0 67.4 101.2#
39 0.0 47.6 71.4#

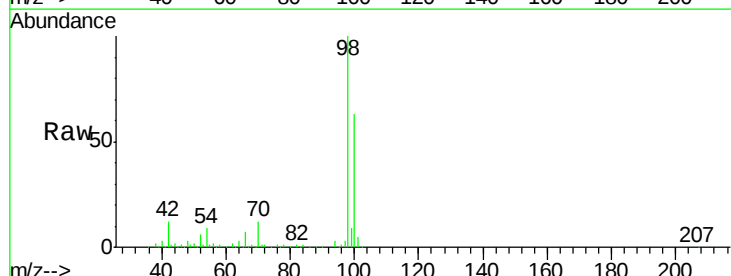


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

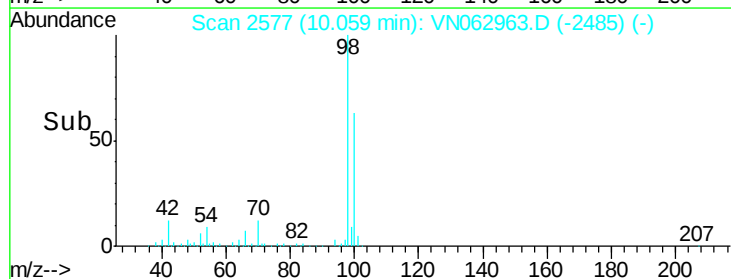
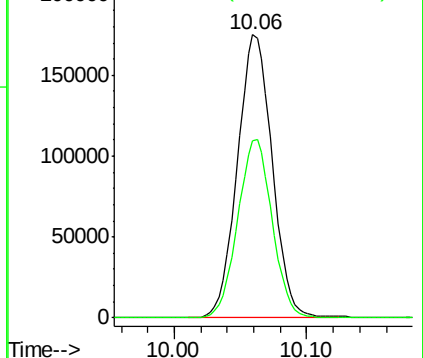


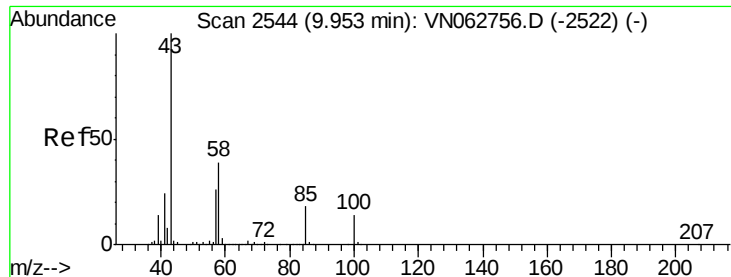
#50
Toluene-d8
Concen: 50.244 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN062963.D
Acq: 15 Aug 2020 3:24

Tgt Ion: 98 Resp: 318803
Ion Ratio Lower Upper
98 100
100 62.7 50.9 76.3



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

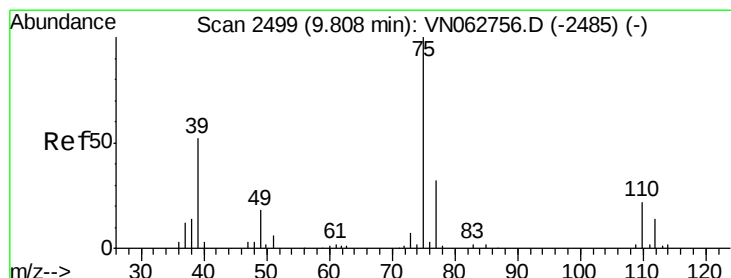
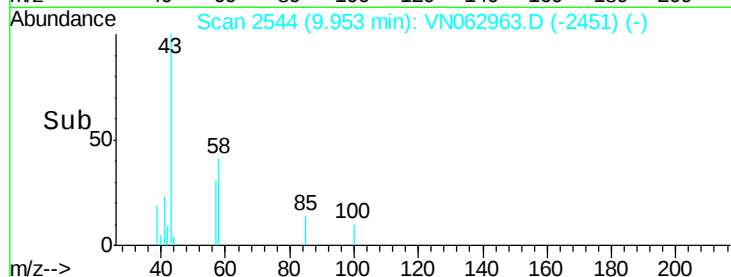
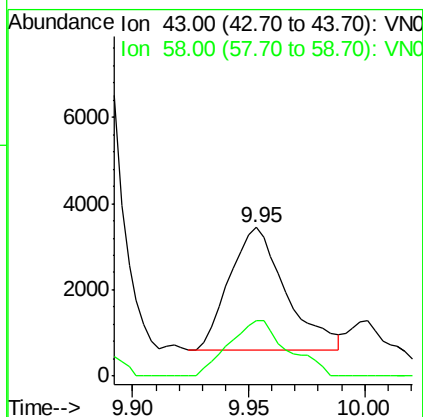
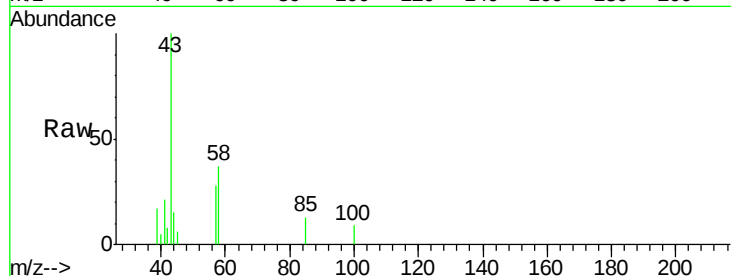




#51
 4-Methyl-2-Pentanone
 Concen: 1.841 ug/l
 RT: 9.95 min Scan# 2544
 Delta R.T. -0.00 min
 Lab File: VN062963.D
 Acq: 15 Aug 2020 3:24

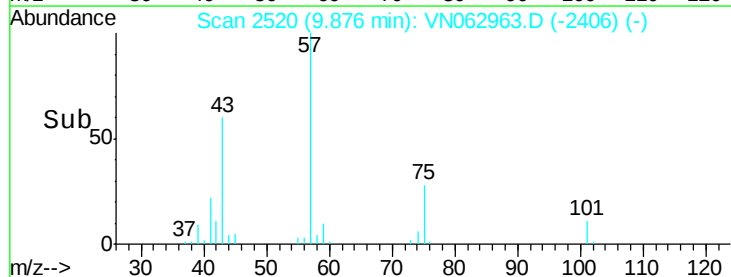
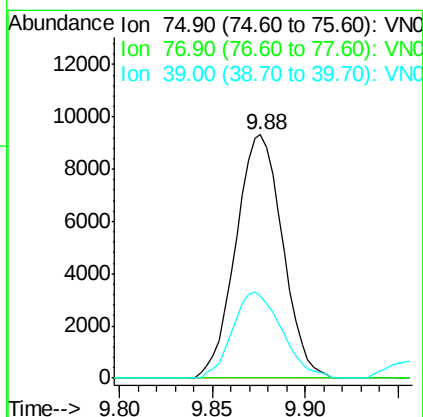
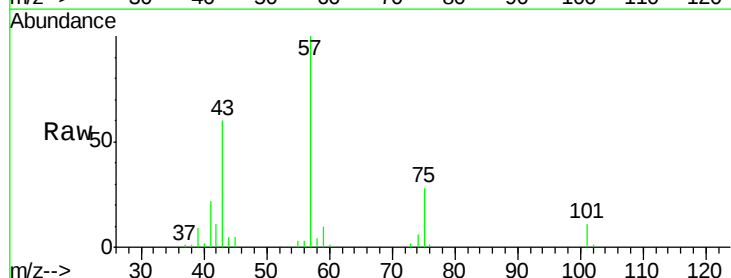
Instrument :
 MSVOA_N
 ClientSampleId :
 20200515-2801-C

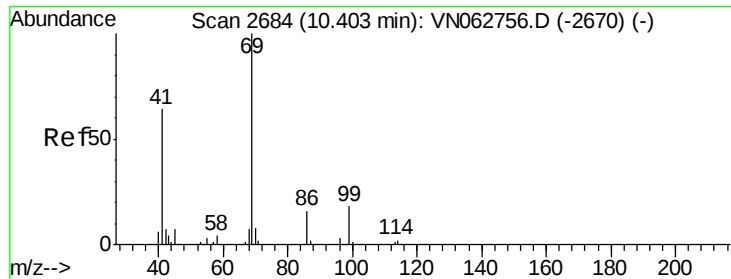
Tgt Ion: 43 Resp: 4801
 Ion Ratio Lower Upper
 43 100
 58 47.2 31.1 46.7#



#54
 cis-1,3-Dichloropropene
 Concen: 5.390 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN062963.D
 Acq: 15 Aug 2020 3:24

Tgt Ion: 75 Resp: 16368
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.5 38.3#
 39 34.0 41.9 62.9#





#56

Ethyl methacrylate

Concen: 0.475 ug/l

RT: 10.51 min Scan# 2717

Delta R.T. 0.11 min

Lab File: VN062963.D

Acq: 15 Aug 2020 3:24

Instrument :

MSVOA_N

ClientSampleId :

20200515-2801-C

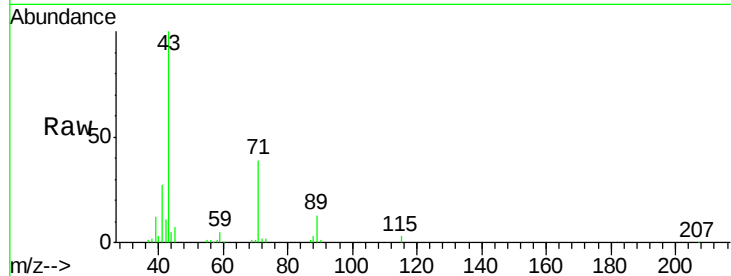
Tgt Ion: 69 Resp: 1301

Ion Ratio Lower Upper

69 100

41 2774.1 52.2 78.2#

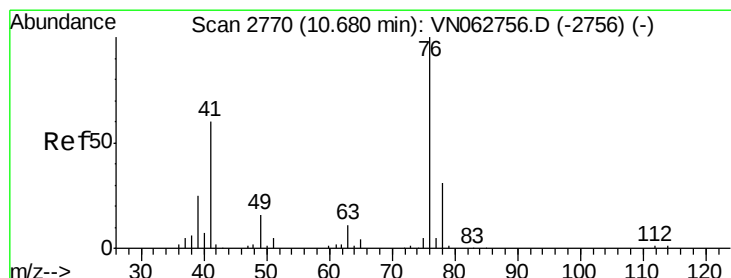
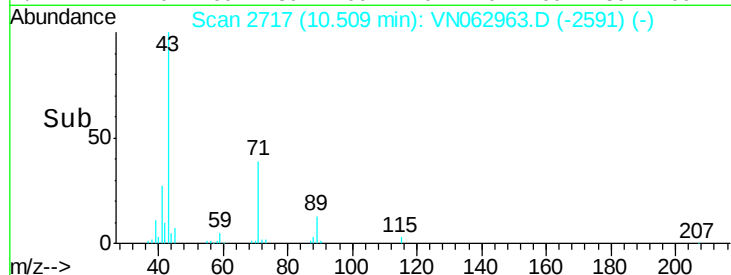
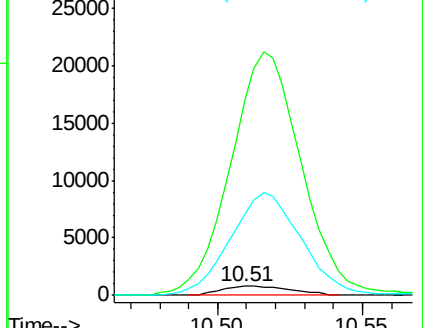
39 1169.2 30.9 46.3#



Abundance Ion 69.00 (68.70 to 69.70): VN062963.D (-2717) (-)

Ion 41.00 (40.70 to 41.70): VN062963.D (-2717) (-)

Ion 39.00 (38.70 to 39.70): VN062963.D (-2717) (-)



#57

1,3-Dichloropropane

Concen: 0.739 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN062963.D

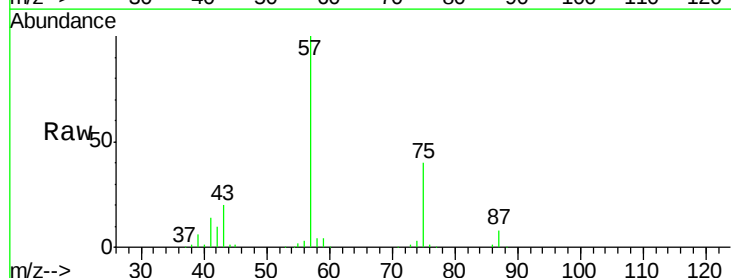
Acq: 15 Aug 2020 3:24

Tgt Ion: 76 Resp: 2287

Ion Ratio Lower Upper

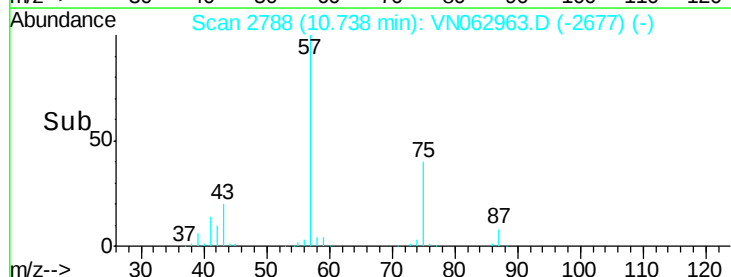
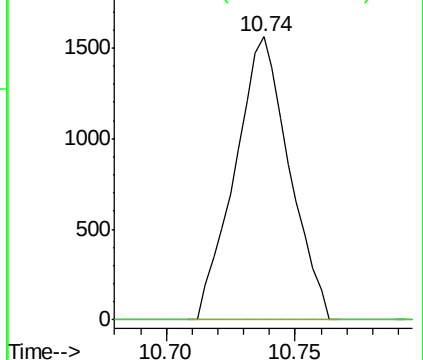
76 100

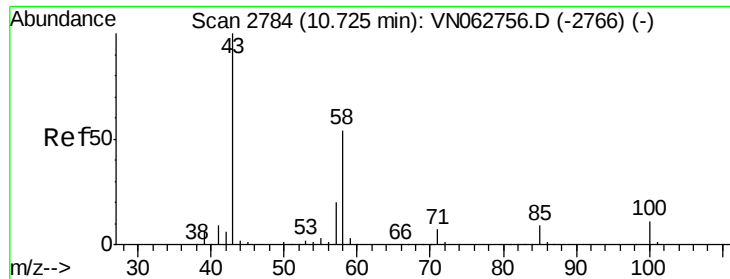
78 0.0 25.4 38.0#



Abundance Ion 75.90 (75.60 to 76.60): VN062963.D (-2788) (-)

Ion 77.90 (77.60 to 78.60): VN062963.D (-2788) (-)





#59

2-Hexanone

Concen: 18.325 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.01 min

Lab File: VN062963.D

Acq: 15 Aug 2020 3:24

Instrument :

MSVOA_N

ClientSampleId :

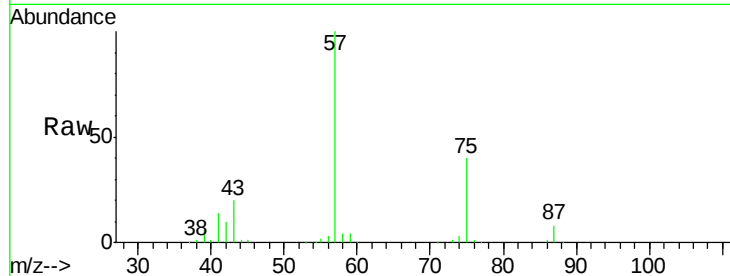
20200515-2801-C

Tgt Ion: 43 Resp: 35650

Ion Ratio Lower Upper

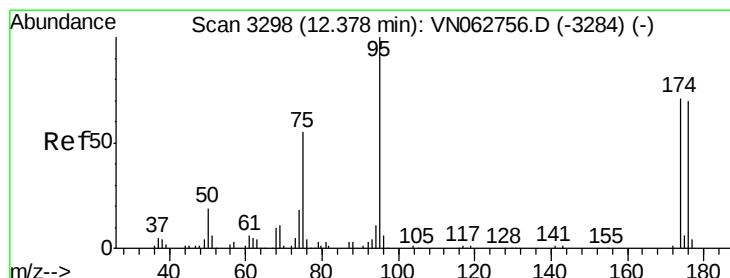
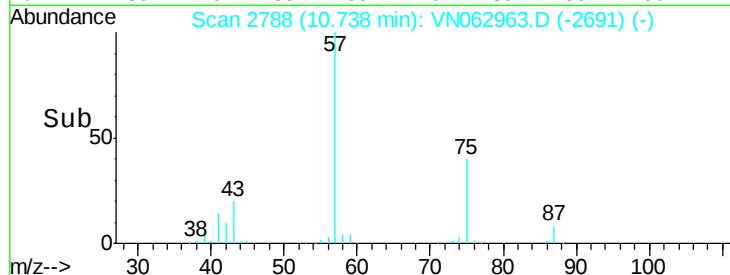
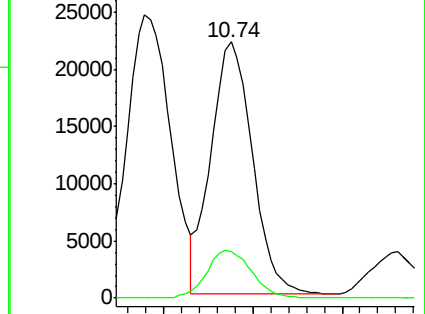
43 100

58 20.4 26.7 80.1#



Abundance Ion 43.00 (42.70 to 43.70): VN062756.D (-2766) (-)

Ion 58.00 (57.70 to 58.70): VN062756.D (-2766) (-)



#62

4-Bromofluorobenzene

Concen: 46.807 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN062963.D

Acq: 15 Aug 2020 3:24

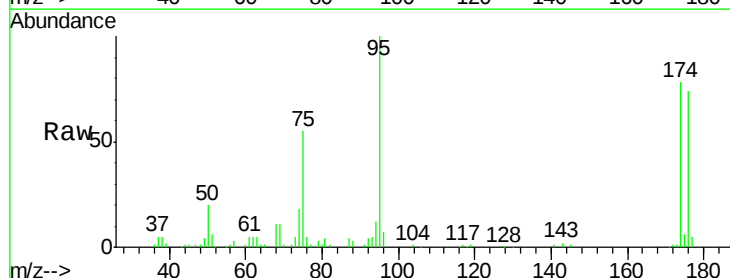
Tgt Ion: 95 Resp: 112235

Ion Ratio Lower Upper

95 100

174 78.1 0.0 144.8

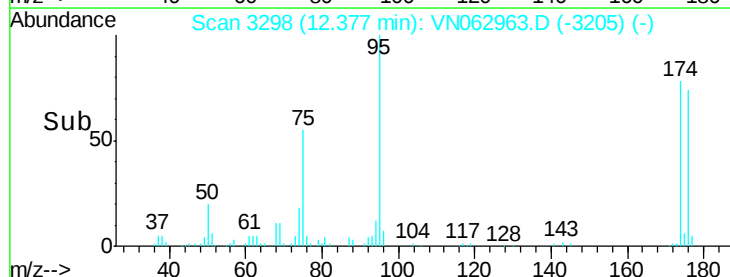
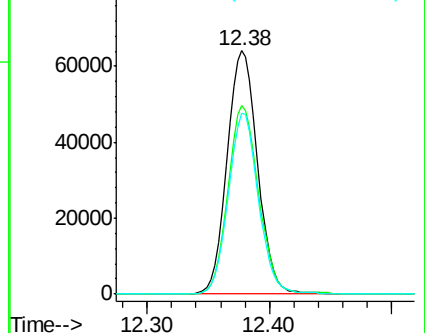
176 73.1 0.0 142.2

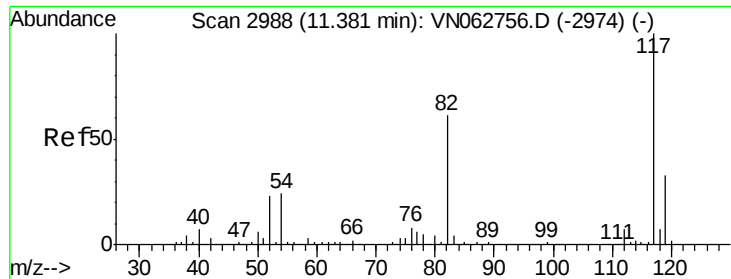


Abundance Ion 94.90 (94.60 to 95.60): VN062756.D (-3284) (-)

Ion 173.80 (173.50 to 174.50): VN062756.D (-3284) (-)

Ion 175.80 (175.50 to 176.50): VN062756.D (-3284) (-)

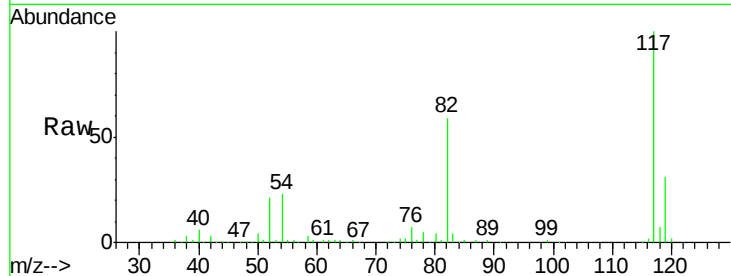




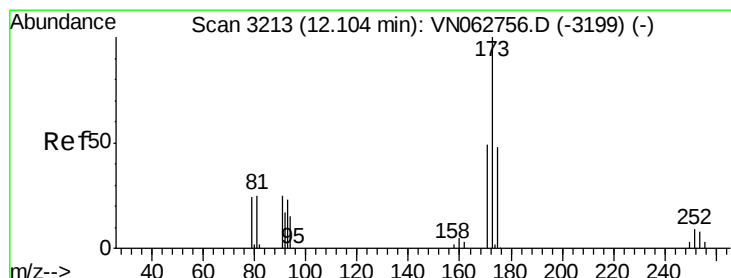
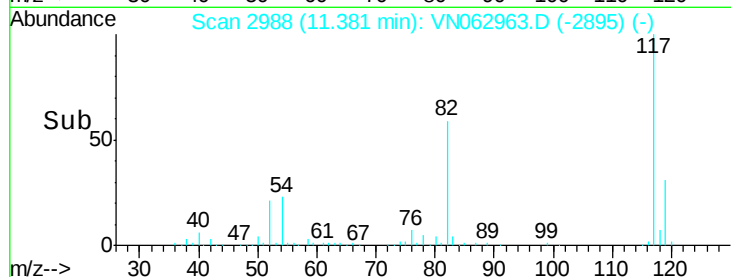
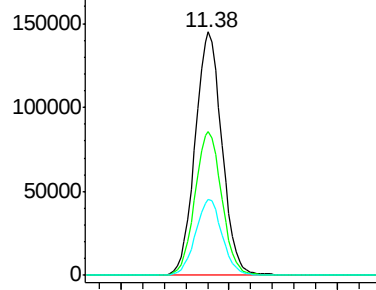
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062963.D
Acq: 15 Aug 2020 3:24

Instrument :
MSVOA_N
ClientSampleId :
20200515-2801-C

Tgt Ion:117 Resp: 250932
Ion Ratio Lower Upper
117 100
82 59.1 49.0 73.4
119 31.4 26.2 39.2

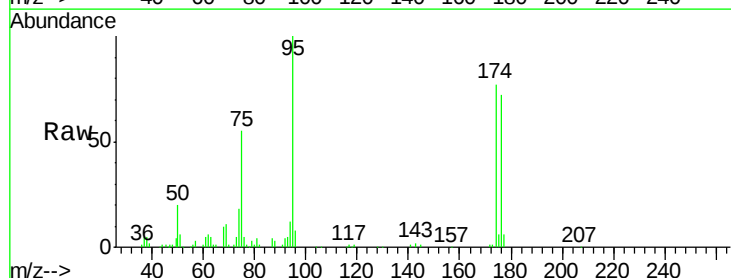


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

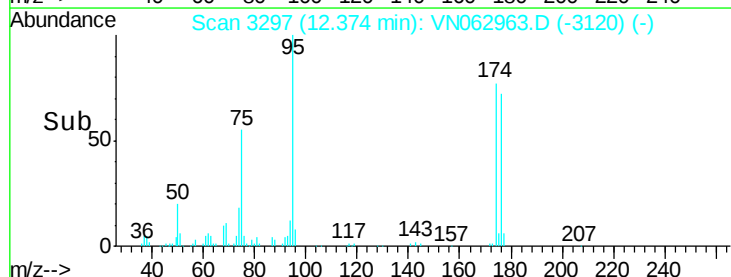
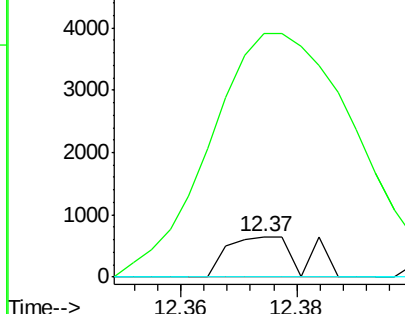


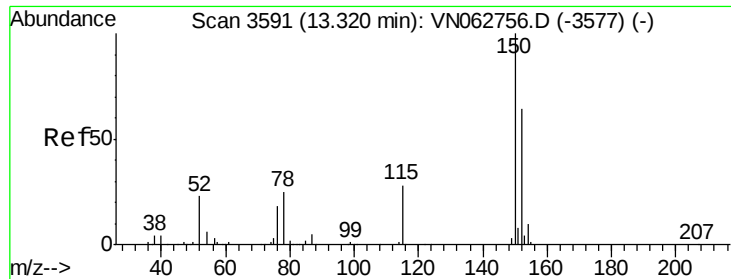
#71
Bromoform
Concen: 0.341 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. 0.27 min
Lab File: VN062963.D
Acq: 15 Aug 2020 3:24

Tgt Ion:173 Resp: 587
Ion Ratio Lower Upper
173 100
175 1034.6 24.0 72.0#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): 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: VN062963.D

Acq: 15 Aug 2020 3:24

Instrument :

MSVOA_N

ClientSampleId :

20200515-2801-C

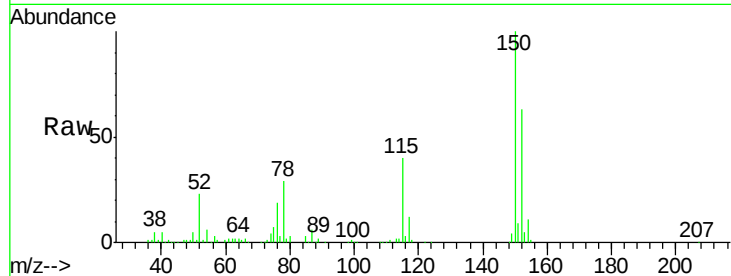
Tgt Ion:152 Resp: 90396

Ion Ratio Lower Upper

152 100

115 62.0 31.6 94.8

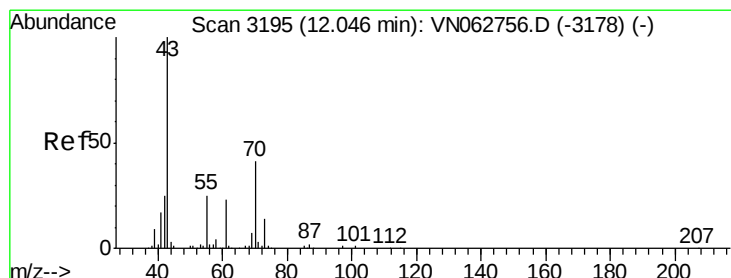
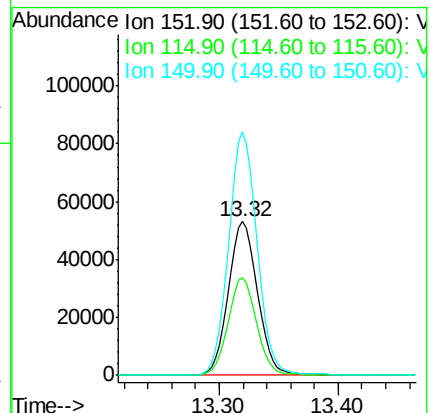
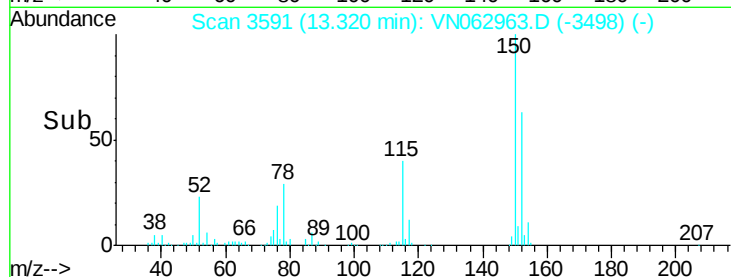
150 154.8 0.0 349.2



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-ethyl acetate

Concen: 0.573 ug/l

RT: 12.01 min Scan# 3185

Delta R.T. -0.03 min

Lab File: VN062963.D

Acq: 15 Aug 2020 3:24

Tgt Ion: 43 Resp: 1580

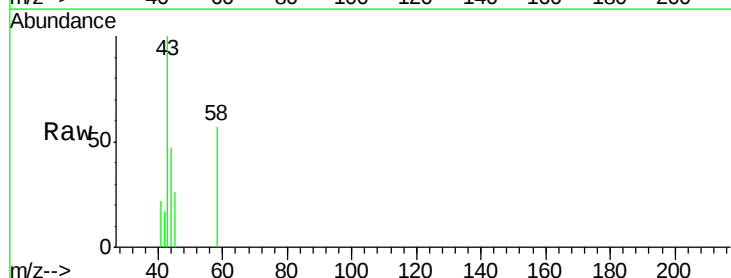
Ion Ratio Lower Upper

43 100

70 0.0 32.3 48.5#

55 0.0 20.2 30.2#

61 0.0 18.2 27.4#

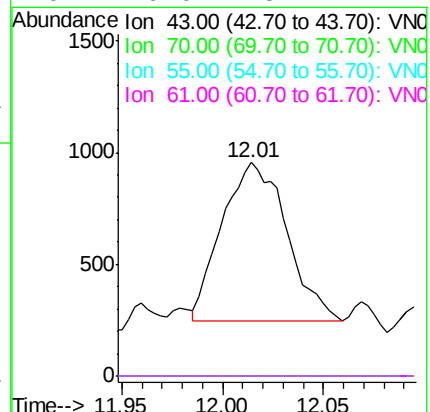
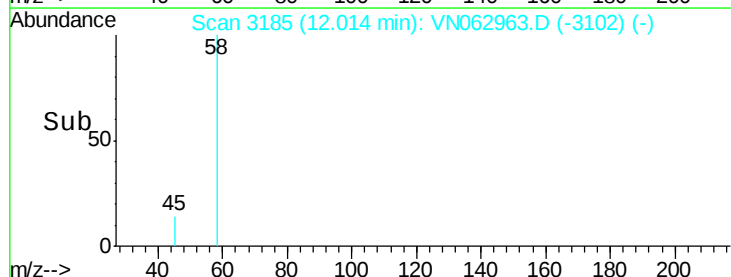


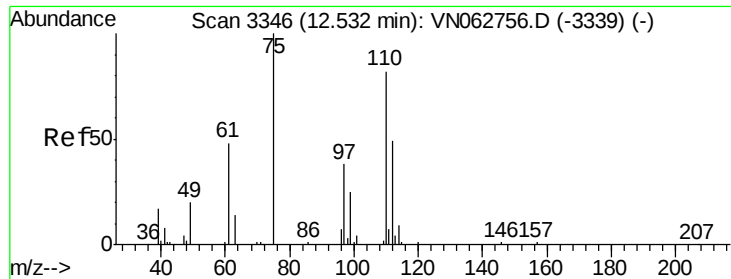
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

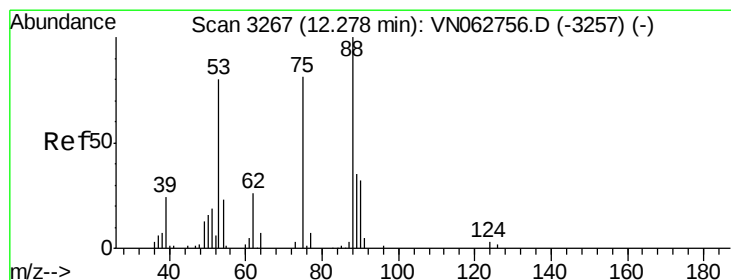
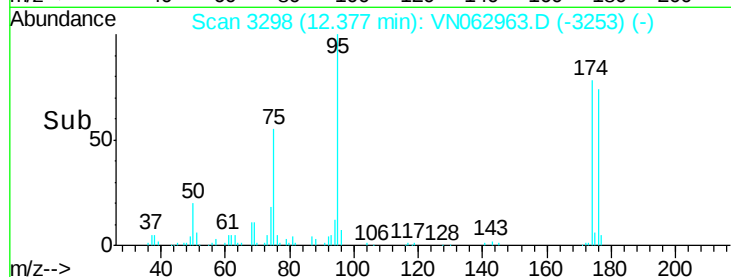
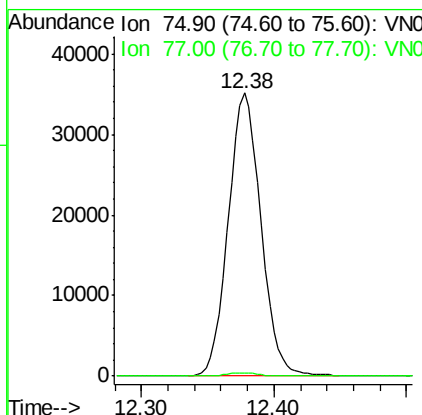
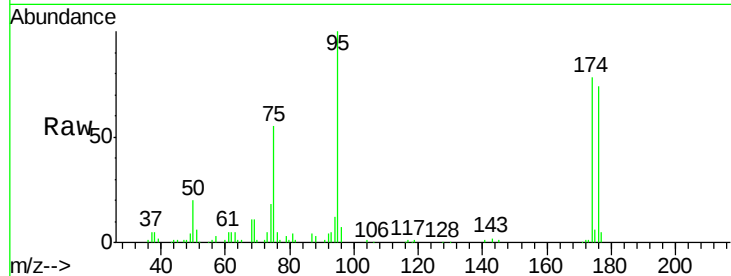




#76
 1,2,3-Trichloropropane
 Concen: 24.716 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.15 min
 Lab File: VN062963.D
 Acq: 15 Aug 2020 3:24

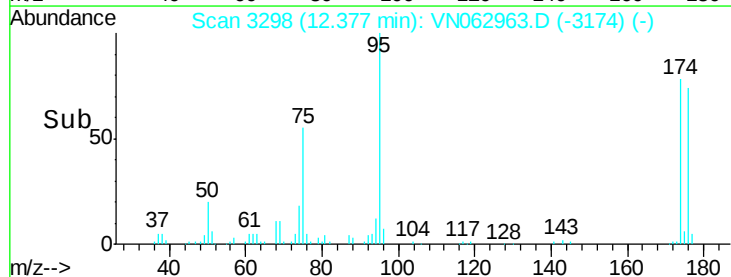
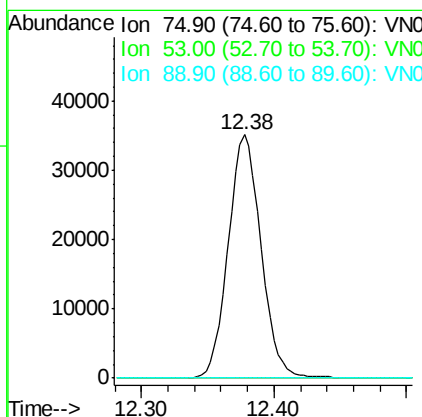
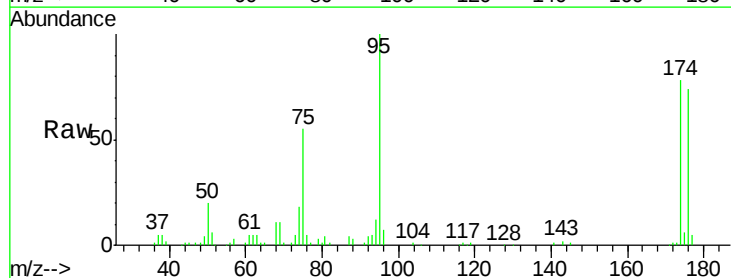
Instrument :
 MSVOA_N
 ClientSampleId :
 20200515-2801-C

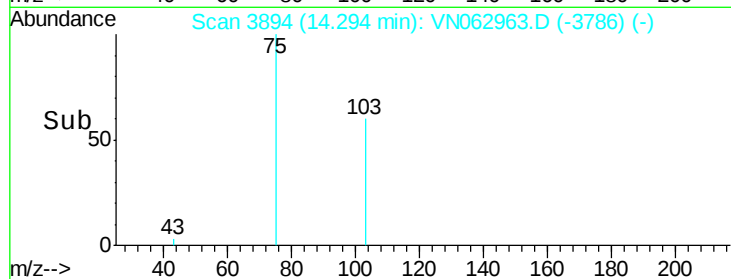
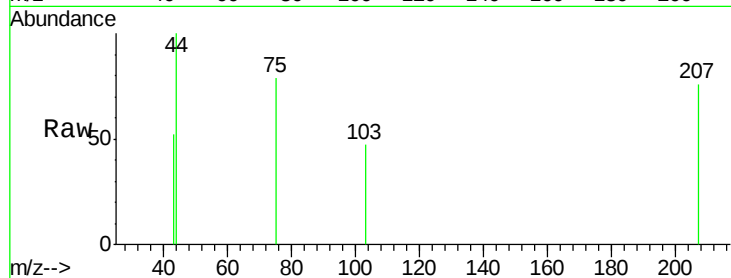
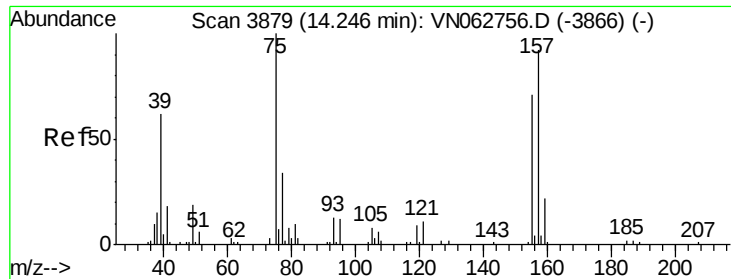
Tgt Ion: 75 Resp: 60254
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 75.450 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN062963.D
 Acq: 15 Aug 2020 3:24

Tgt Ion: 75 Resp: 60254
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.1 118.7#
 89 0.0 36.2 54.2#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.711 ug/l

RT: 14.29 min Scan# 3894

Delta R.T. 0.05 min

Lab File: VN062963.D

Acq: 15 Aug 2020 3:24

Instrument :

MSVOA_N

ClientSampleId :

20200515-2801-C

Tgt Ion: 75 Resp: 366

Ion Ratio Lower Upper

75 100

155 0.0 35.0 105.1#

157 0.0 43.2 129.6#

Abundance Ion 74.90 (74.60 to 75.60): VN062963.D (-3786) (-)

Ion 154.80 (154.50 to 155.50): VN062963.D (-3786) (-)

Ion 156.80 (156.50 to 157.50): VN062963.D (-3786) (-)

14.29

300

200

100

0

Time--> 14.26 14.28 14.30