

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082020\
 Data File : VN063040.D
 Acq On : 20 Aug 2020 16:48
 Operator : JC/MD
 Sample : L3741-01 20X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DSN-001-SEWER-OUTLET-001

Quant Time: Aug 21 05:43:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Aug 20 14:01:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	28744	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	140312	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	134254	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	62479	30.68	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.27%
60) 4-Bromofluorobenzene	12.38	95	54022	25.46	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	84.87%
63) Toluene-d8	10.06	98	174143	28.26	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	94.20%

Target Compounds

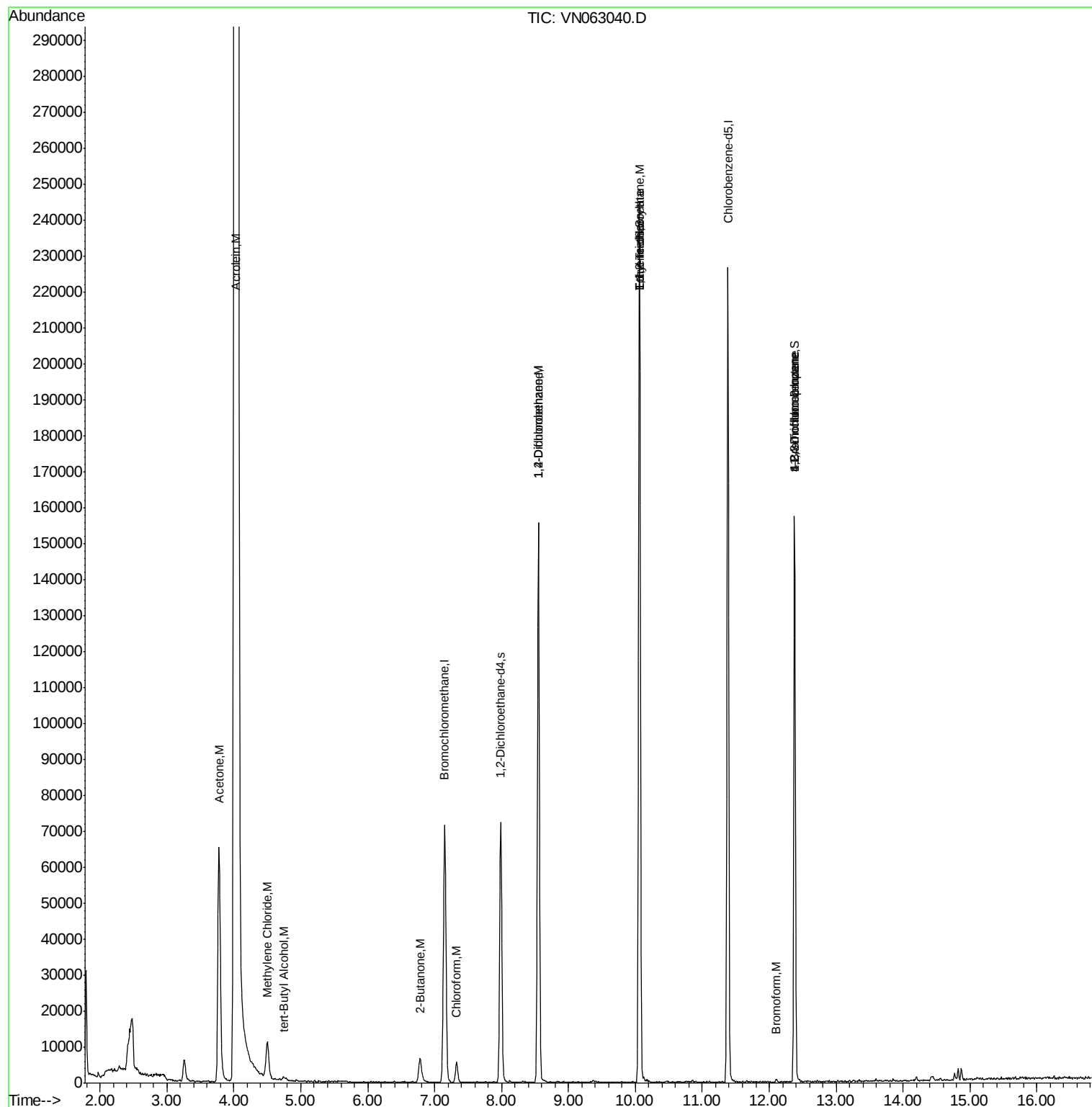
					Ovalue	
13) Acrolein	4.04	56	260	1.419	ug/l #	1
15) Acetone	3.78	58	37300	164.622	ug/l	98
18) Methylene Chloride	4.50	84	7698	4.102	ug/l	86
23) tert-Butyl Alcohol	4.74	59	1023	3.989	ug/l #	100
25) Chloroform	7.33	83	6493	2.061	ug/l	97
30) 2-Butanone	6.79	43	302	0.318	ug/l #	55
36) 1,2-Dichloroethane	8.55	62	4469	2.006	ug/l #	74
50) 1,1,2-Trichloroethane	10.07	97	6522	3.834	ug/l #	1
51) Ethyl methacrylate	10.07	69	595	0.257	ug/l #	65
56) Bromoform	12.10	173	559	0.409	ug/l #	87
72) 1,2,3-Trichloropropane	12.38	75	26387	12.213	ug/l	1
77) t-1,4-Dichloro-2-butene	12.38	75	26387	34.556	ug/l #	12

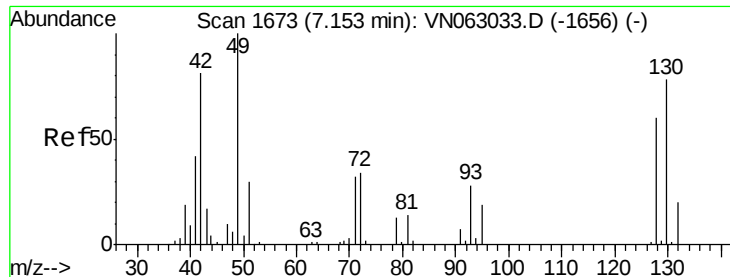
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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DSN-001-SEWER-OUTLET-001

Quant Time: Aug 21 05:43:30 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082020W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Aug 20 14:01:17 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.15 min Scan# 1672

Delta R.T. -0.00 min

Lab File: VN063040.D

Acq: 20 Aug 2020 16:48

Instrument :

MSVOA_N

ClientSampleId :

DSN-001-SEWER-OUTLET-001

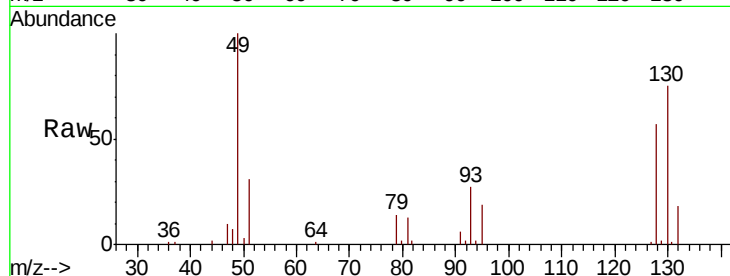
Tot Ion:128 Resp: 28744

Ion Ratio Lower Upper

128 100

49 171.2 0.0 437.5

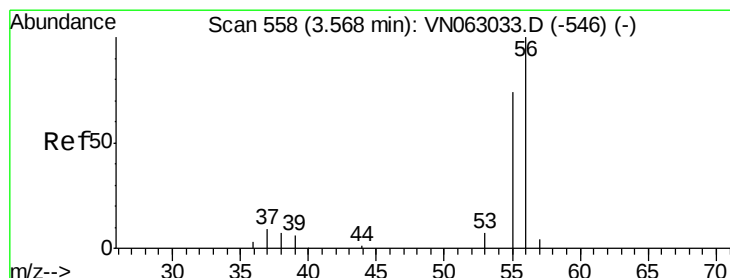
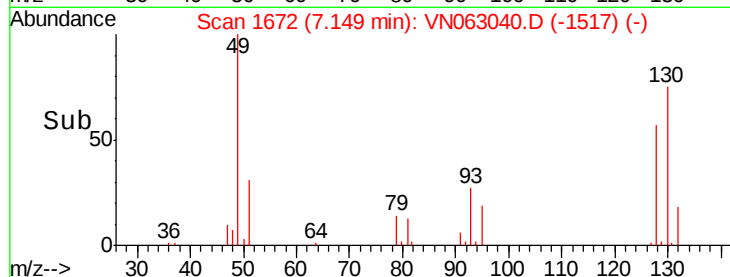
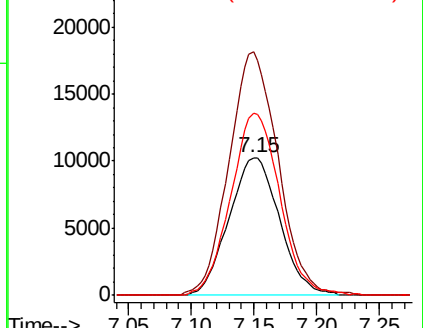
130 128.4 0.0 327.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#13

Acrolein

Concen: 1.419 ug/l

RT: 4.04 min Scan# 704

Delta R.T. 0.47 min

Lab File: VN063040.D

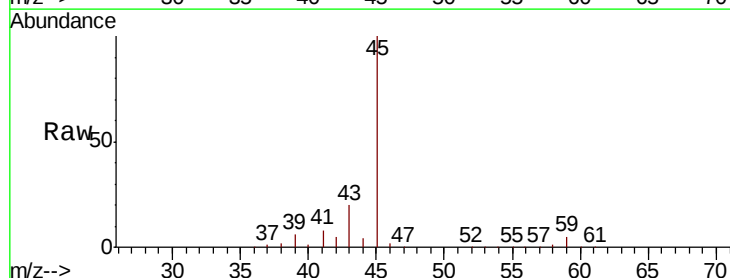
Acq: 20 Aug 2020 16:48

Tgt Ion: 56 Resp: 260

Ion Ratio Lower Upper

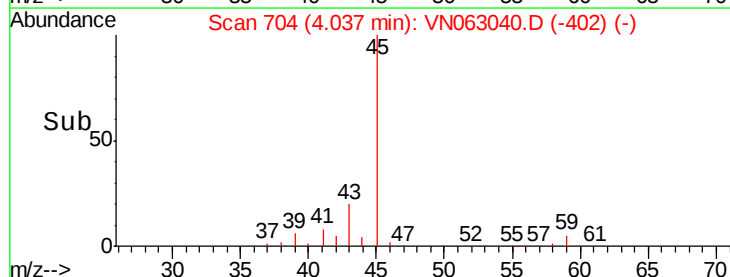
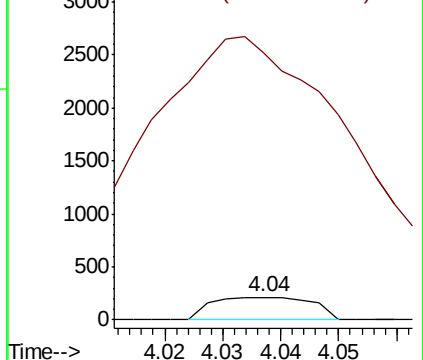
56 100

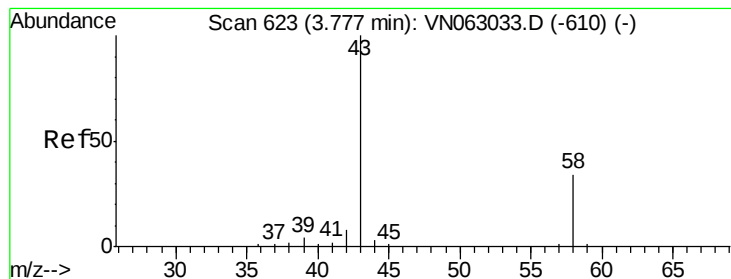
55 2428.8 58.7 88.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#15

Acetone

Concen: 164.622 ug/l

RT: 3.78 min Scan# 623

Delta R.T. 0.00 min

Lab File: VN063040.D

Acq: 20 Aug 2020 16:48

Instrument :

MSVOA_N

ClientSampleId :

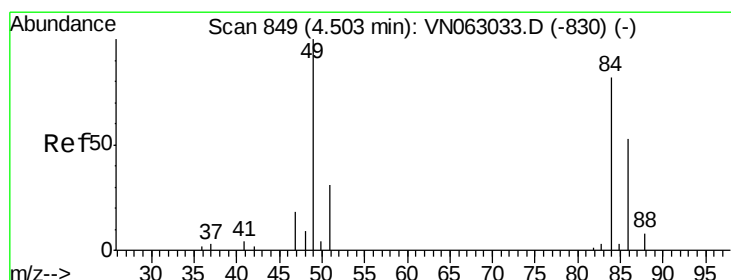
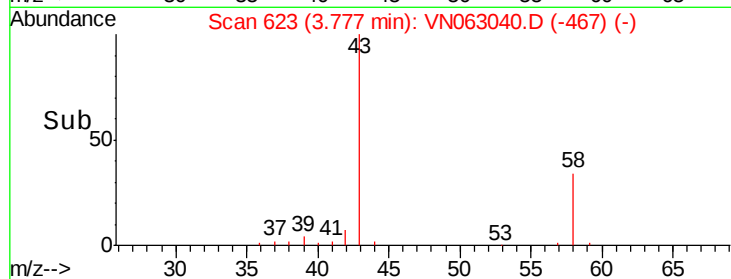
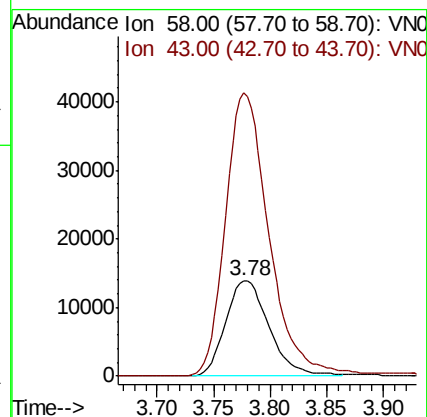
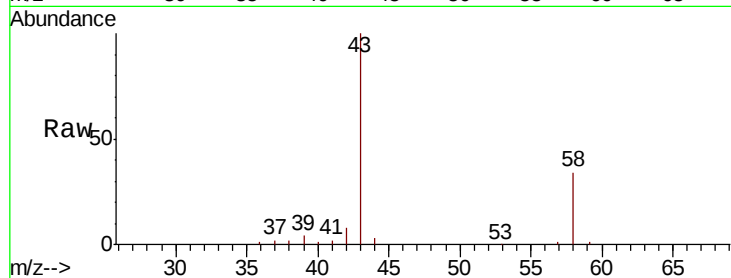
DSN-001-SEWER-OUTLET-001

Tot Ion: 58 Resp: 37300

Ion Ratio Lower Upper

58 100

43 295.7 233.2 349.8



#18

Methylene Chloride

Concen: 4.102 ug/l

RT: 4.50 min Scan# 847

Delta R.T. -0.01 min

Lab File: VN063040.D

Acq: 20 Aug 2020 16:48

Tgt Ion: 84 Resp: 7698

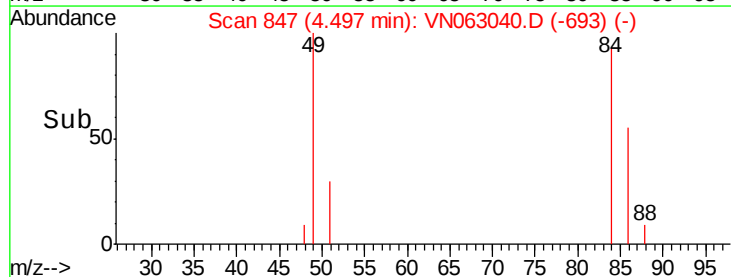
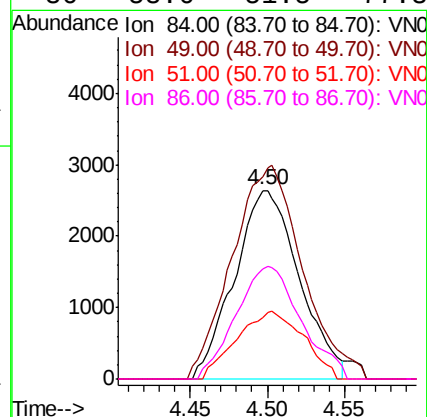
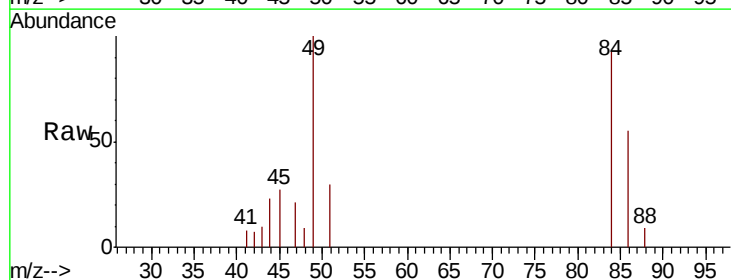
Ion Ratio Lower Upper

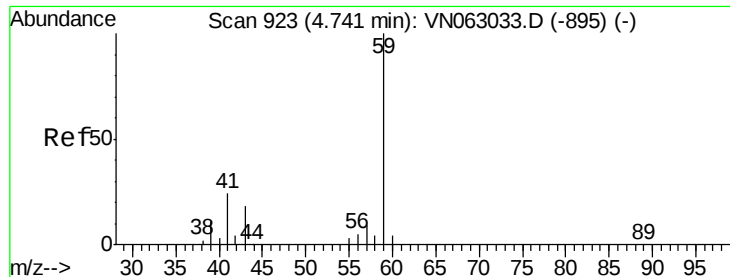
84 100

49 100.4 97.8 146.8

51 32.6 30.7 46.1

86 58.6 51.5 77.3



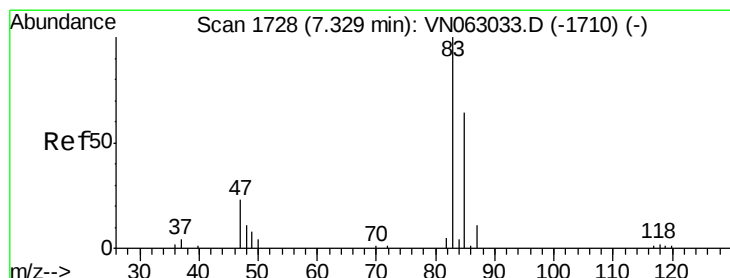
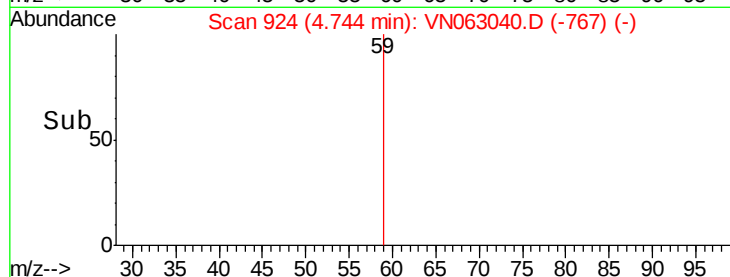
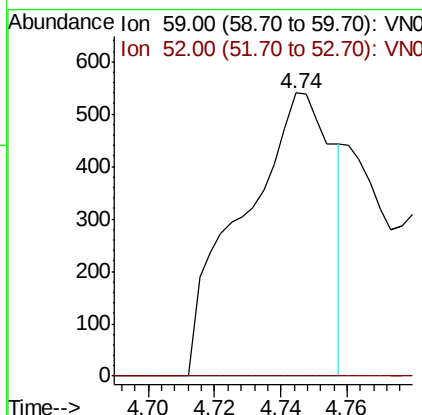
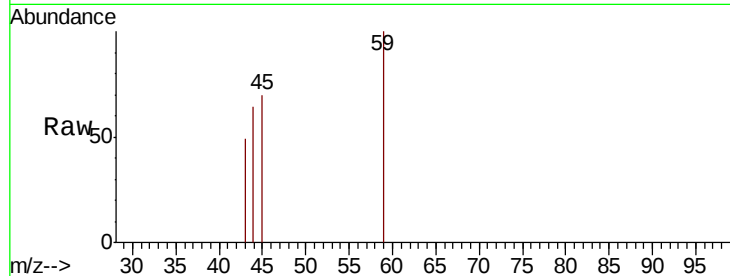


#23

tert-Butyl Alcohol
 Concen: 3.989 ug/l
 RT: 4.74 min Scan# 924
 Delta R.T. 0.00 min
 Lab File: VN063040.D
 Acq: 20 Aug 2020 16:48

Instrument :
 MSVOA_N
 ClientSampleId :
 DSN-001-SEWER-OUTLET-001

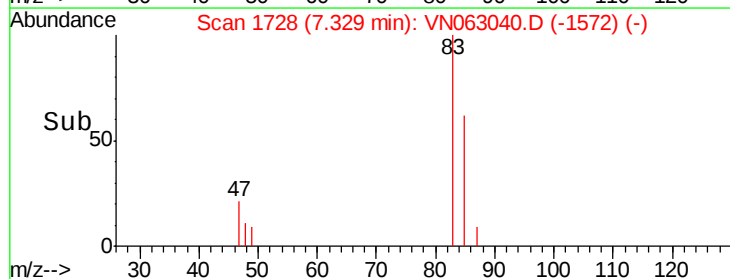
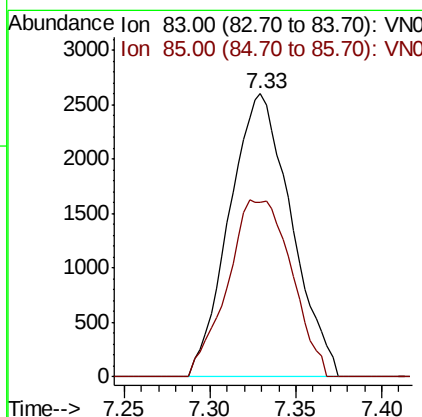
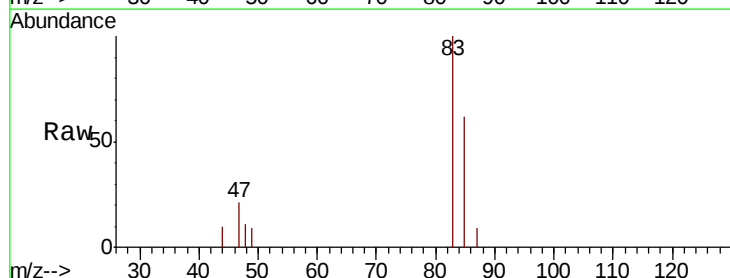
Tot Ion: 59 Resp: 1023
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0

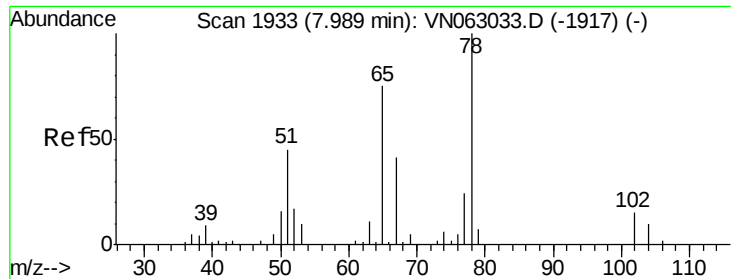


#25

Chloroform
 Concen: 2.061 ug/l
 RT: 7.33 min Scan# 1728
 Delta R.T. 0.00 min
 Lab File: VN063040.D
 Acq: 20 Aug 2020 16:48

Tgt Ion: 83 Resp: 6493
 Ion Ratio Lower Upper
 83 100
 85 61.5 51.0 76.4





#27

1,2-Dichloroethane-d4

Concen: 30.678 ug/l

RT: 7.99 min Scan# 1932

Delta R.T. -0.00 min

Lab File: VN063040.D

Acq: 20 Aug 2020 16:48

Instrument :

MSVOA_N

ClientSampleId :

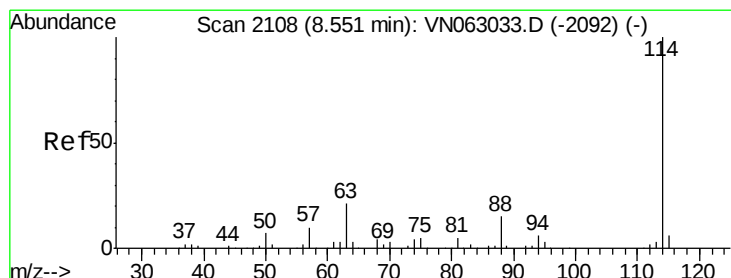
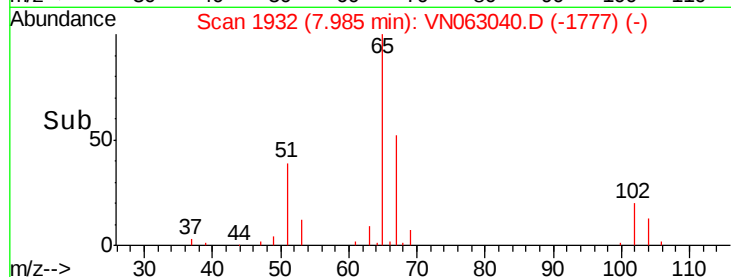
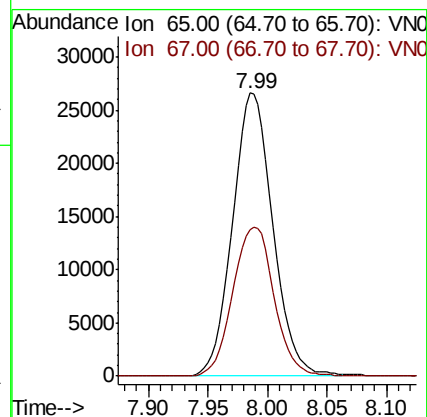
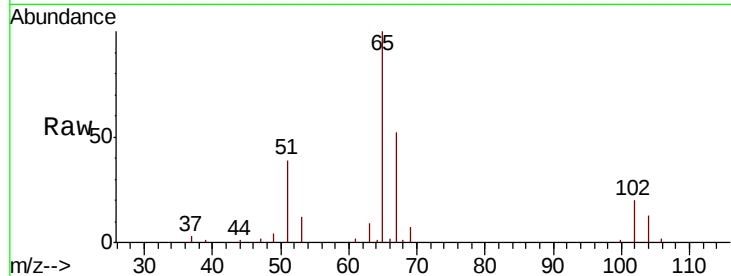
DSN-001-SEWER-OUTLET-001

Tot Ion: 65 Resp: 62479

Ion Ratio Lower Upper

65 100

67 53.9 43.8 65.6



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. 0.00 min

Lab File: VN063040.D

Acq: 20 Aug 2020 16:48

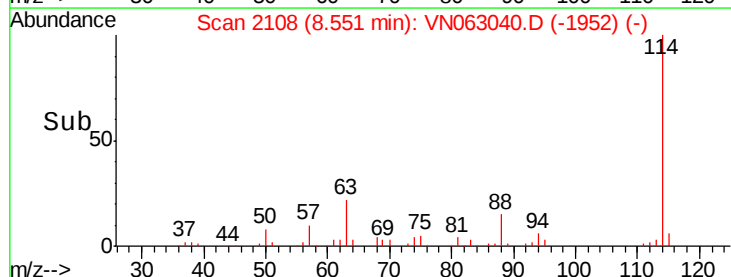
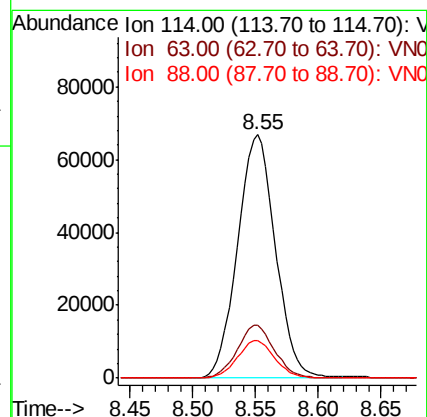
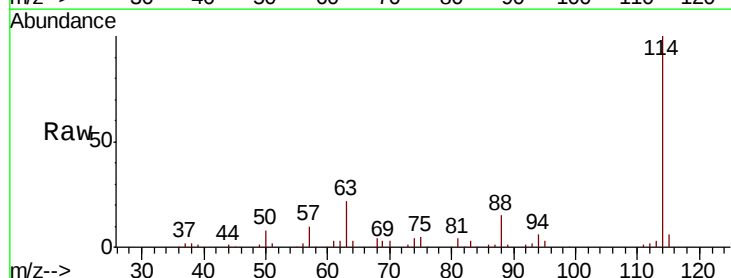
Tgt Ion: 114 Resp: 140312

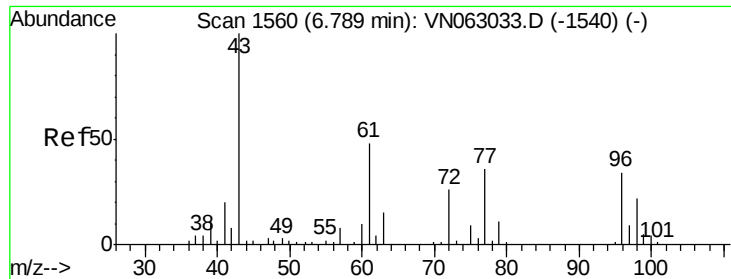
Ion Ratio Lower Upper

114 100

63 21.3 17.0 25.6

88 15.2 12.6 18.8

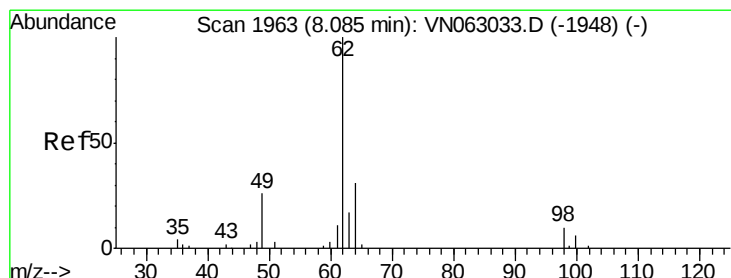
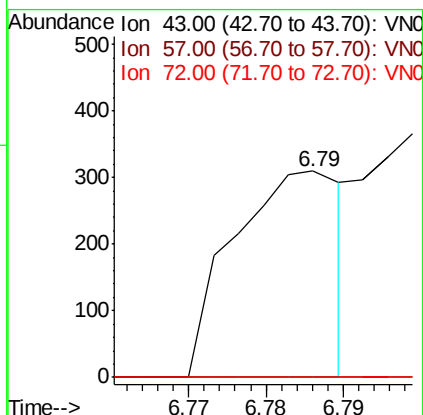
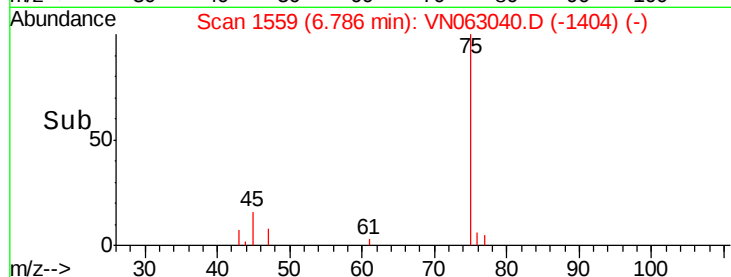
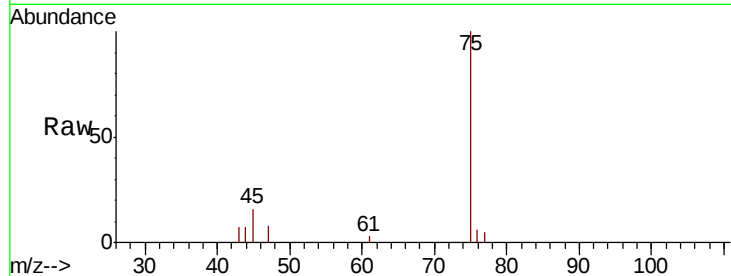




#30
 2-Butanone
 Concen: 0.318 ug/l
 RT: 6.79 min Scan# 1559
 Delta R.T. -0.00 min
 Lab File: VN063040.D
 Acq: 20 Aug 2020 16:48

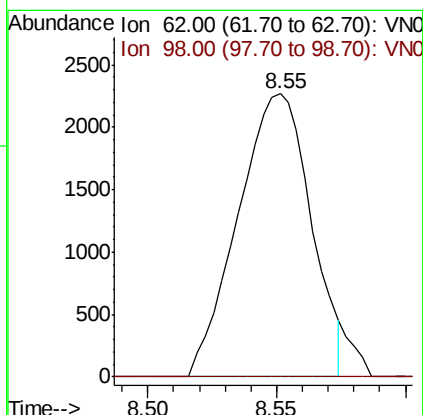
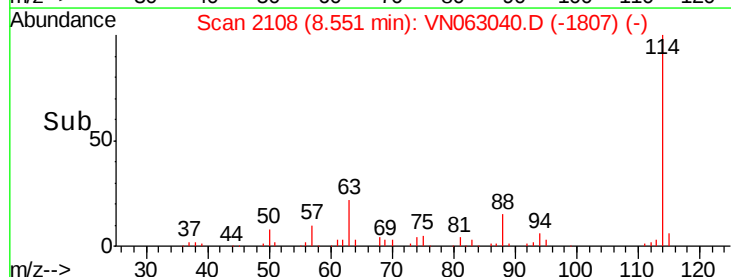
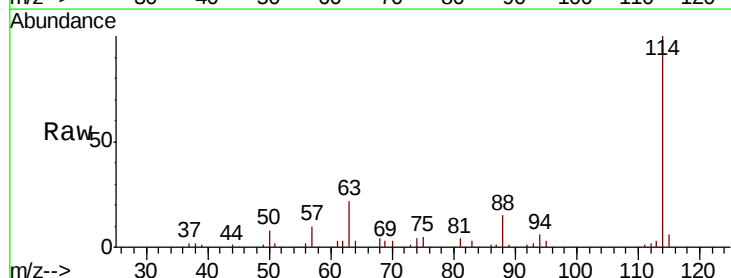
Instrument :
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 DSN-001-SEWER-OUTLET-001

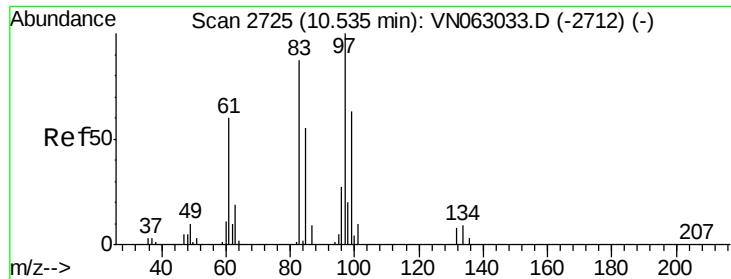
Tot Ion: 43 Resp: 302
 Ion Ratio Lower Upper
 43 100
 57 0.0 6.6 9.8#
 72 0.0 21.3 31.9#



#36
 1,2-Dichloroethane
 Concen: 2.006 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.47 min
 Lab File: VN063040.D
 Acq: 20 Aug 2020 16:48

Tgt Ion: 62 Resp: 4469
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.6 11.4#

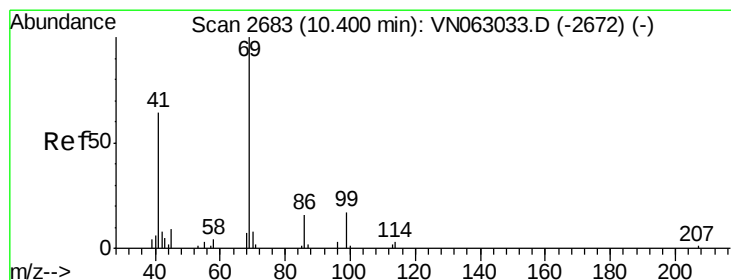
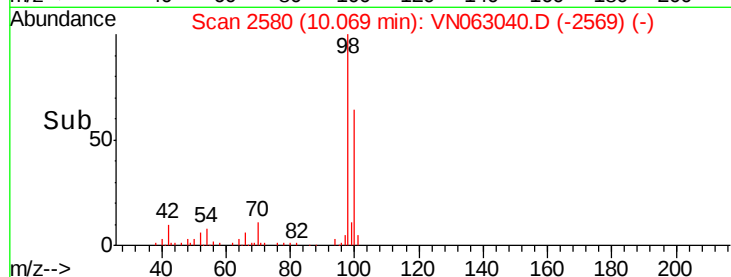
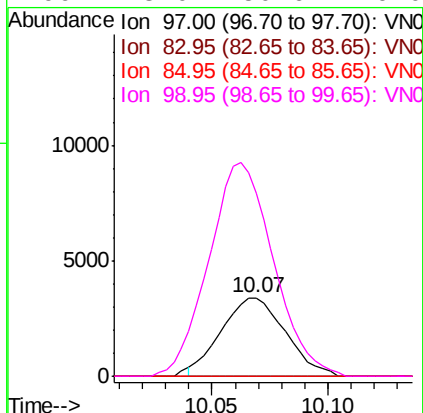
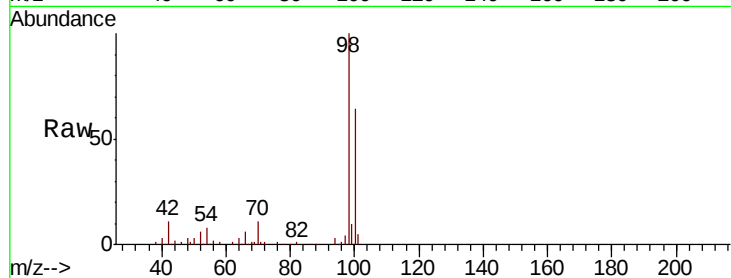




#50
 1,1,2-Trichloroethane
 Concen: 3.834 ug/l
 RT: 10.07 min Scan# 2580
 Delta R.T. -0.47 min
 Lab File: VN063040.D
 Acq: 20 Aug 2020 16:48

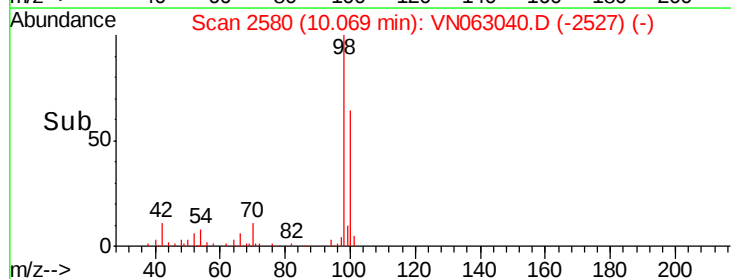
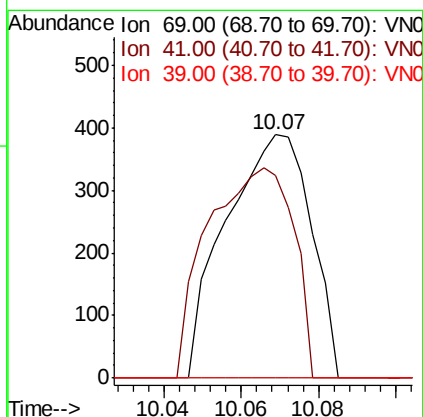
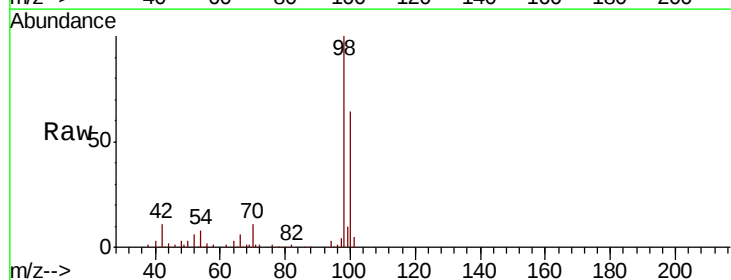
Instrument :
 MSVOA_N
 ClientSampleId :
 DSN-001-SEWER-OUTLET-001

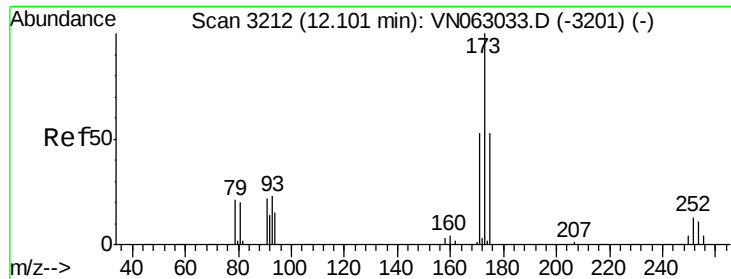
Tot Ion	Ratio	Lower	Upper
97	100		
83	0.0	69.9	104.9#
85	0.0	44.0	66.0#
99	228.0	50.6	76.0#



#51
 Ethyl methacrylate
 Concen: 0.257 ug/l
 RT: 10.07 min Scan# 2580
 Delta R.T. -0.33 min
 Lab File: VN063040.D
 Acq: 20 Aug 2020 16:48

Tgt Ion	Ratio	Lower	Upper
69	100		
41	83.0	32.1	96.5
39	0.0	16.1	48.3#





#56

Bromoform

Concen: 0.409 ug/l

RT: 12.10 min Scan# 3213

Delta R.T. 0.00 min

Lab File: VN063040.D

Acq: 20 Aug 2020 16:48

Instrument :

MSVOA_N

ClientSampleId :

DSN-001-SEWER-OUTLET-001

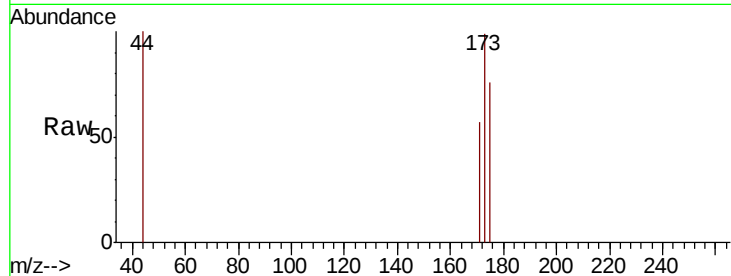
Tot Ion:173 Resp: 559

Ion Ratio Lower Upper

173 100

175 44.5 41.2 61.8

254 0.0 9.0 13.4#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V

12.10

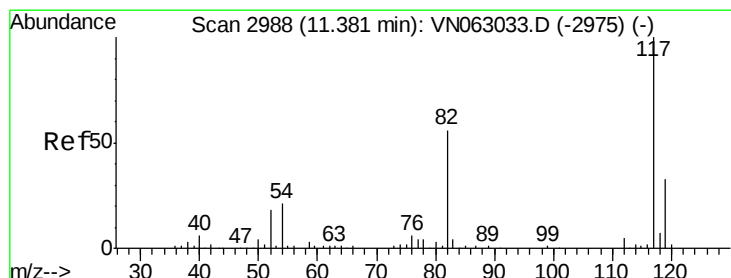
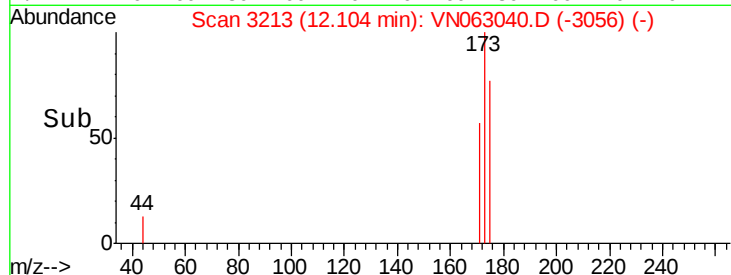
300

200

100

0

Time-->



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. 0.00 min

Lab File: VN063040.D

Acq: 20 Aug 2020 16:48

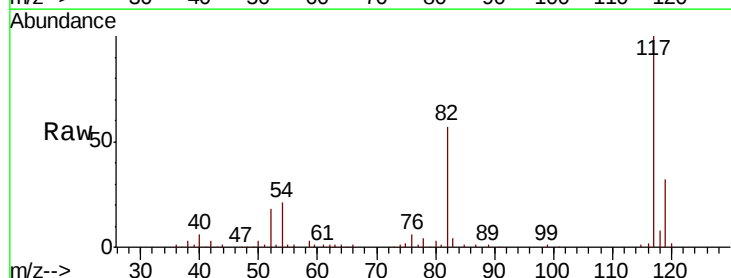
Tgt Ion:117 Resp: 134254

Ion Ratio Lower Upper

117 100

82 56.4 44.9 67.3

119 32.4 26.0 39.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V

11.38

100000

80000

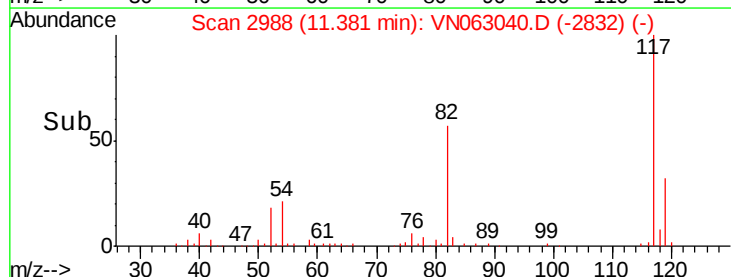
60000

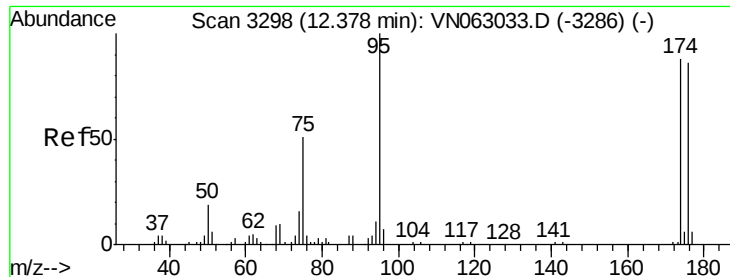
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20000

0

Time-->

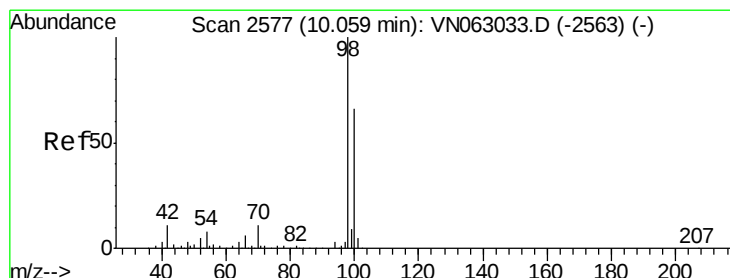
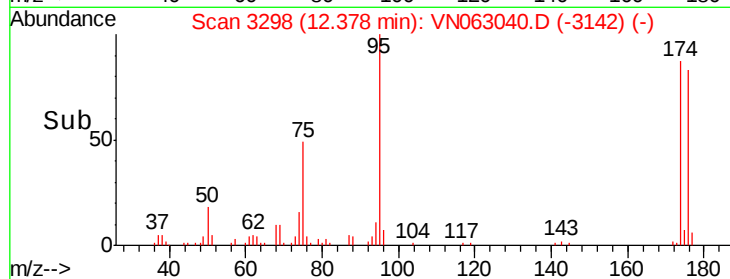
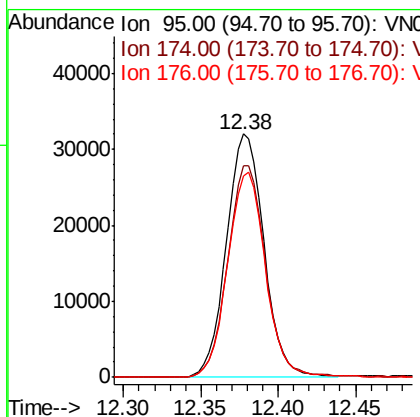
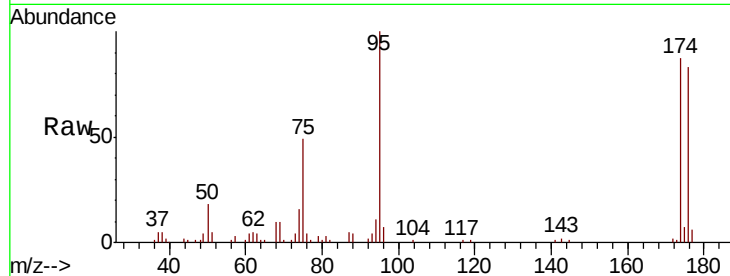




#60
 4-Bromofluorobenzene
 Concen: 25.464 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.00 min
 Lab File: VN063040.D
 Acq: 20 Aug 2020 16:48

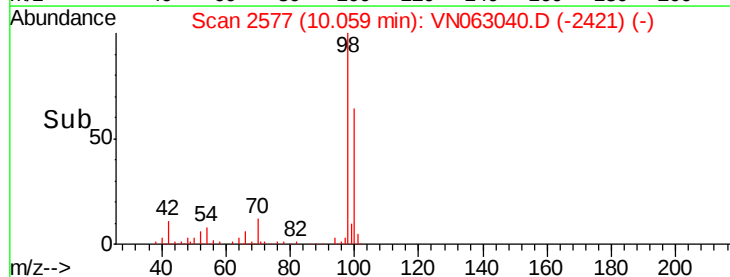
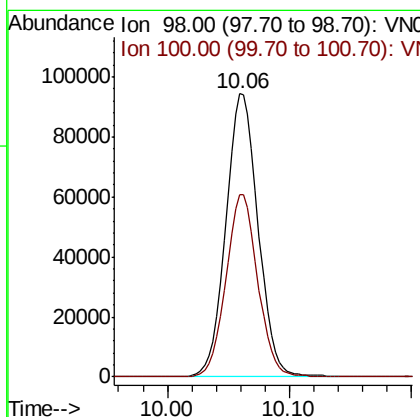
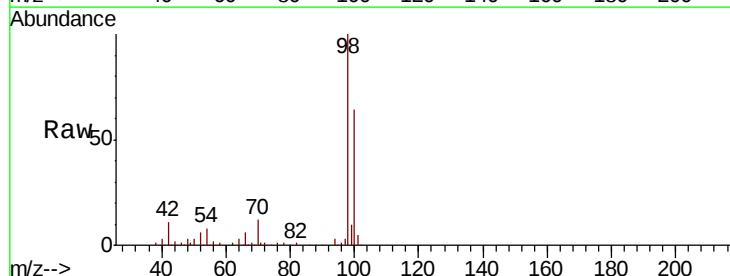
Instrument :
 MSVOA_N
 ClientSampleId :
 DSN-001-SEWER-OUTLET-001

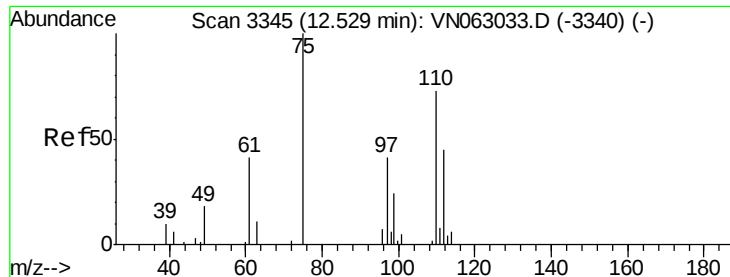
Tot Ion: 95 Resp: 54022
 Ion Ratio Lower Upper
 95 100
 174 87.4 70.1 105.1
 176 84.8 66.8 100.2



#63
 Toluene-d8
 Concen: 28.263 ug/l
 RT: 10.06 min Scan# 2577
 Delta R.T. -0.00 min
 Lab File: VN063040.D
 Acq: 20 Aug 2020 16:48

Tgt Ion: 98 Resp: 174143
 Ion Ratio Lower Upper
 98 100
 100 63.5 51.4 77.2





#72

1,2,3-Trichloropropane

Concen: 12.213 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN063040.D

Acq: 20 Aug 2020 16:48

Instrument :

MSVOA_N

ClientSampleId :

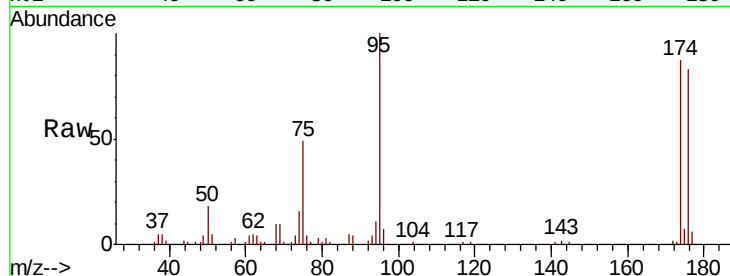
DSN-001-SEWER-OUTLET-001

Tot Ion: 75 Resp: 26387

Ion Ratio Lower Upper

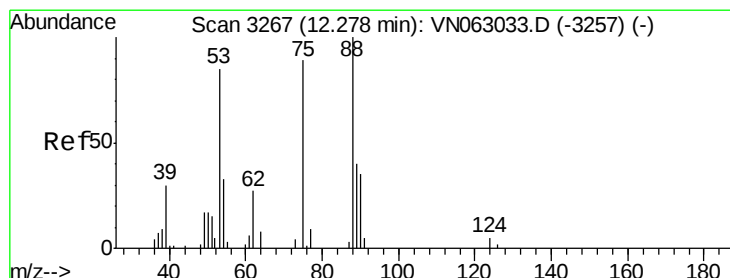
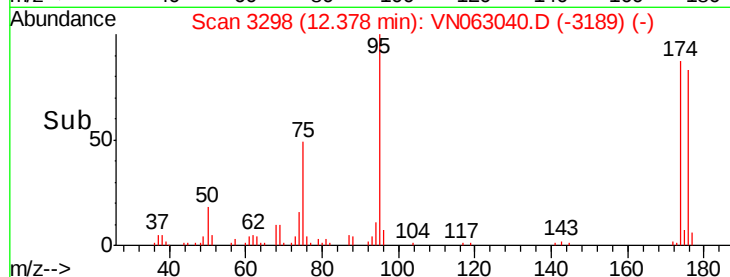
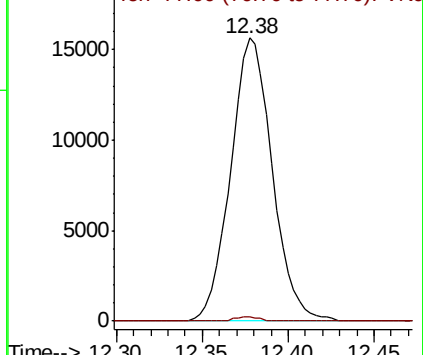
75 100

77 0.8 0.0 387.8



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0



#77

t-1,4-Dichloro-2-butene

Concen: 34.556 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN063040.D

Acq: 20 Aug 2020 16:48

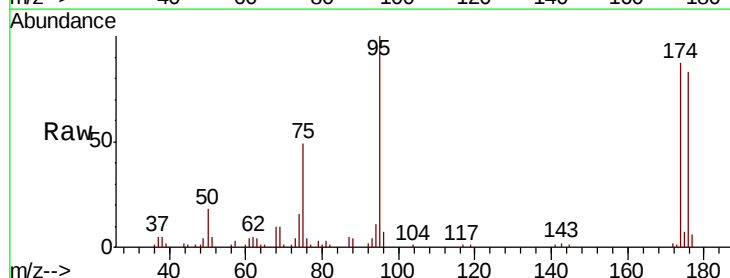
Tgt Ion: 75 Resp: 26387

Ion Ratio Lower Upper

75 100

53 0.0 47.0 141.0#

89 0.0 22.9 68.7#



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0

