

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031820\
 Data File : VN060583.D
 Acq On : 18 Mar 2020 11:53
 Operator : JC/MD
 Sample : L1161-07 .2PPB MDL
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2020DL

Manual Integrations
 APPROVED

MMDadoda
 3/19/2020 1:03:00 PM

Quant Time: Mar 19 09:27:27 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	218153	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	360045	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	318225	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	135373	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	146044	48.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.54%	
35) Dibromofluoromethane	7.56	113	107862	49.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.08%	
50) Toluene-d8	10.08	98	434561	48.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.74%	
62) 4-Bromofluorobenzene	12.40	95	146879	45.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.14%	

Target Compounds

						Qvalue
3) Chloromethane	2.04	50	1203	0.305	ug/l	98
11) Tert butyl alcohol	4.73	59	89	0.202	ug/l #	72
13) Acrolein	3.58	56	190	0.389	ug/l #	14
15) Acrylonitrile	4.96	53	944m	0.729	ug/l	
16) Acetone	3.79	43	1472	1.388	ug/l	93
17) Carbon Disulfide	4.03	76	2798	0.390	ug/l #	83
19) Methyl tert-butyl Ether	5.01	73	1721	0.212	ug/l #	54
20) Methylene Chloride	4.53	84	569m	0.218	ug/l	
21) trans-1,2-Dichloroethene	5.01	96	603m	0.240	ug/l	
23) Vinyl Acetate	5.87	43	5457	0.762	ug/l	97
25) 2-Butanone	6.80	43	1707m	0.994	ug/l	
29) Tetrahydrofuran	7.19	42	1050	0.865	ug/l #	61
31) Cyclohexane	7.64	56	5445	1.129	ug/l #	2
36) 1,1-Dichloropropene	7.77	75	712	0.204	ug/l #	50
37) Ethyl Acetate	6.91	43	758	0.201	ug/l #	70
42) 1,2-Dichloroethane	8.10	62	983	0.273	ug/l #	75
44) Trichloroethene	8.82	130	553	0.208	ug/l	85
51) 4-Methyl-2-Pentanone	9.97	43	3601	1.019	ug/l	98
52) Toluene	10.14	92	1485	0.234	ug/l	92
53) t-1,3-Dichloropropene	10.37	75	885	0.221	ug/l	89
55) 1,1,2-Trichloroethane	10.56	97	512	0.209	ug/l #	46
58) 2-Chloroethyl Vinyl ether	9.68	63	1420	0.749	ug/l	98
59) 2-Hexanone	10.74	43	2798	1.099	ug/l	97
64) Tetrachloroethene	10.63	164	636	0.254	ug/l	93
65) Chlorobenzene	11.42	112	1555	0.246	ug/l	100
67) Ethyl Benzene	11.50	91	2516	0.214	ug/l	96
68) m/p-Xylenes	11.62	106	1960	0.450	ug/l	98
70) Styrene	11.96	104	1654	0.243	ug/l #	83
73) Isopropylbenzene	12.24	105	2275	0.224	ug/l	98
74) N-amyl acetate	12.07	43	1392	0.297	ug/l #	79
75) 1,1,2,2-Tetrachloroethane	12.50	83	738	0.240	ug/l #	62
76) 1,2,3-Trichloropropane	12.55	75	1092m	0.374	ug/l	
77) Bromobenzene	12.52	156	674	0.275	ug/l	89
78) n-propylbenzene	12.59	91	3461	0.288	ug/l	93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
79) 2-Chlorotoluene	12.67	91	2006	0.280	ug/l	92
80) 1,3,5-Trimethylbenzene	12.73	105	1915	0.222	ug/l	95
82) 4-Chlorotoluene	12.77	91	2598	0.356	ug/l	95
83) tert-Butylbenzene	12.99	119	1777	0.249	ug/l	95
84) 1,2,4-Trimethylbenzene	13.04	105	2087	0.245	ug/l	100
85) sec-Butylbenzene	13.17	105	2621	0.273	ug/l	89
86) p-Isopropyltoluene	13.28	119	2504	0.290	ug/l	92
87) 1,3-Dichlorobenzene	13.27	146	1514	0.351	ug/l	96
88) 1,4-Dichlorobenzene	13.36	146	1870m	0.431	ug/l	
89) n-Butylbenzene	13.61	91	2897	0.371	ug/l	96
91) 1,2-Dichlorobenzene	13.65	146	1526	0.370	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.26	75	262	0.380	ug/l #	3
93) 1,2,4-Trichlorobenzene	14.91	180	1833	0.723	ug/l	95
94) Hexachlorobutadiene	15.00	225	1088	0.875	ug/l	77
95) Naphthalene	15.13	128	6317	0.828	ug/l	96
96) 1,2,3-Trichlorobenzene	15.31	180	1997	0.800	ug/l	91

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

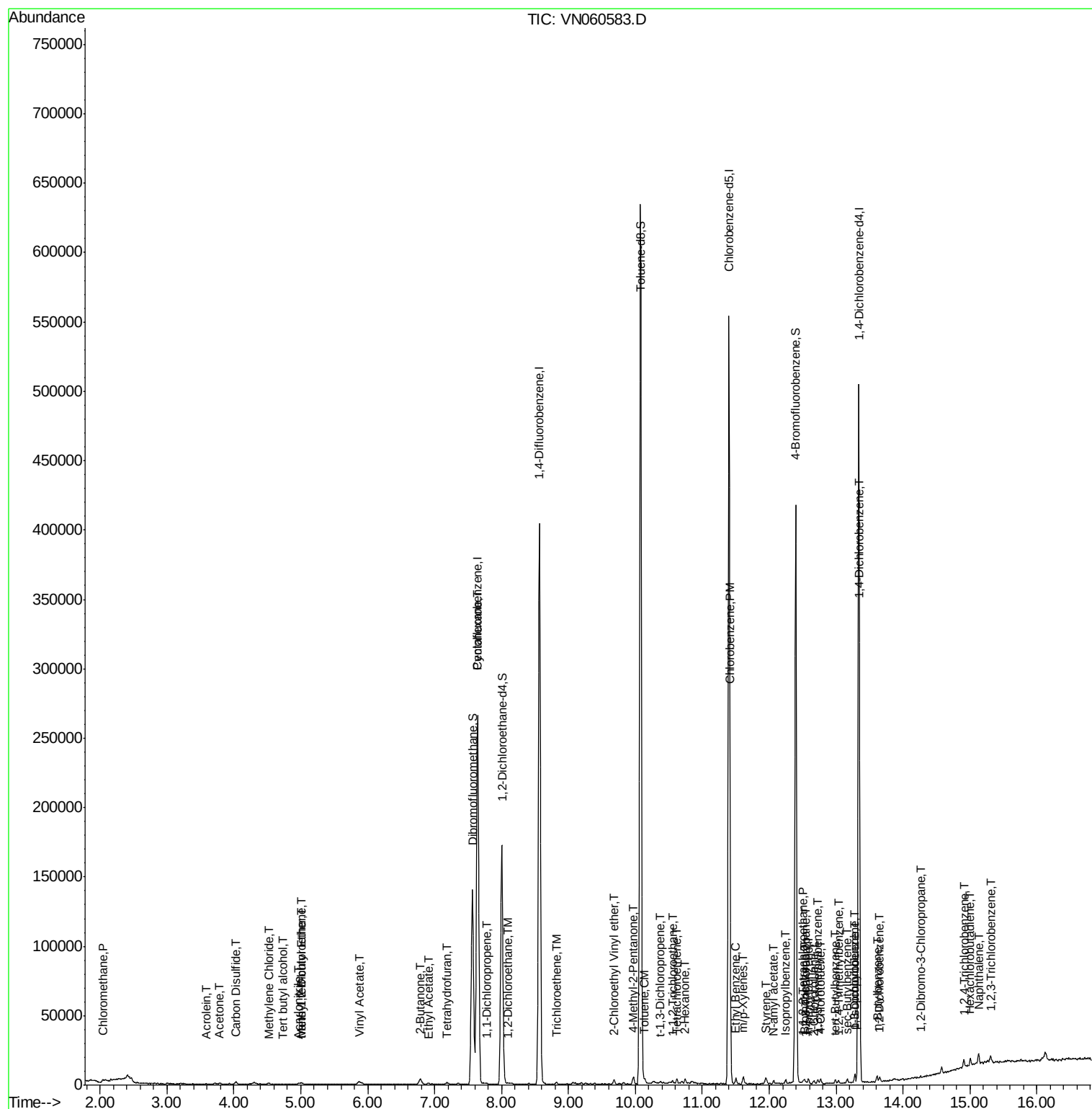
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Data File : VN060583.D
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Operator : JC/MD
Sample : L1161-07 .2PPB MDL
Misc : 5.00mL/MSVOA N/WATER
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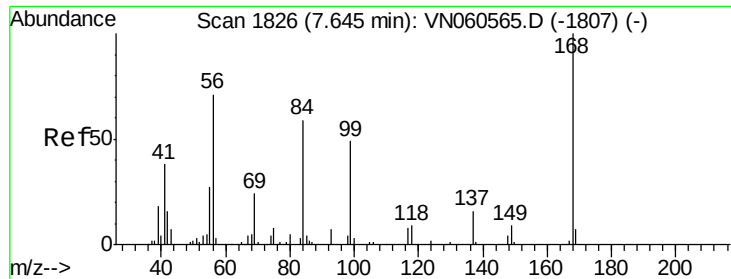
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060583.D

Acq: 18 Mar 2020 11:53

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2020DL

Tot Ion:168 Resp: 218153

Ion Ratio Lower Upper

168 100

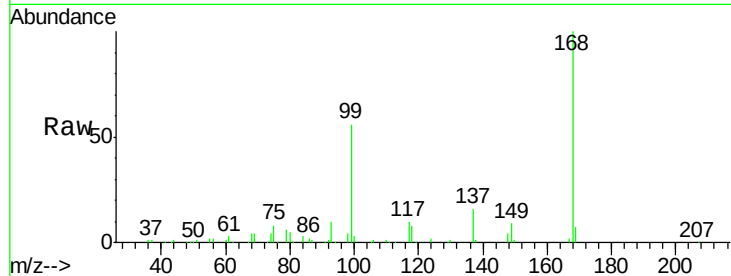
99 56.2 44.0 66.0

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.64

100000

80000

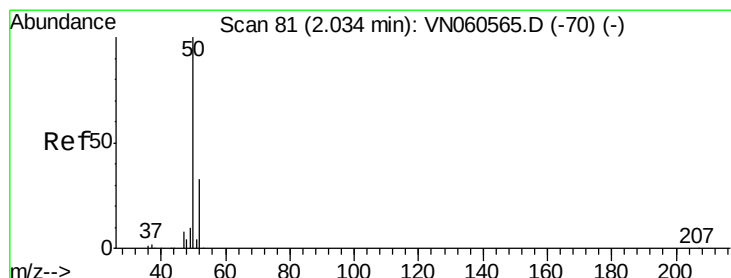
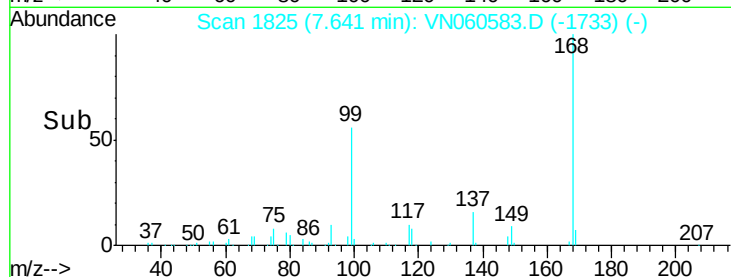
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.305 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN060583.D

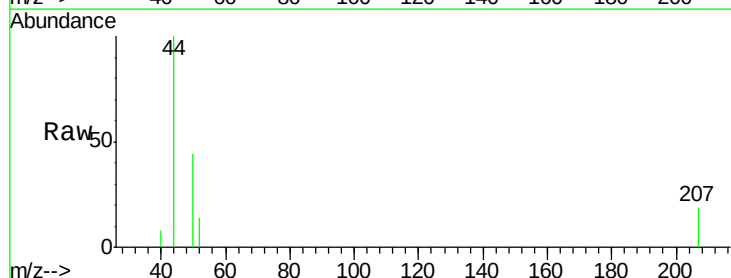
Acq: 18 Mar 2020 11:53

Tgt Ion: 50 Resp: 1203

Ion Ratio Lower Upper

50 100

52 31.6 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.04

1000

800

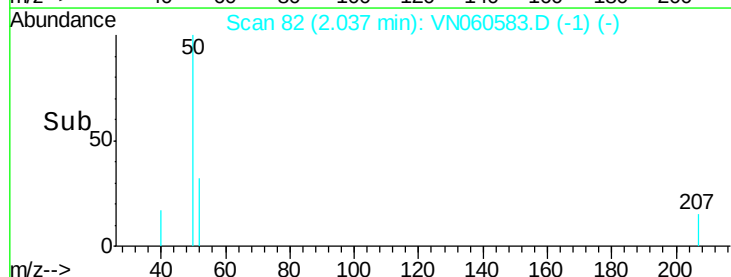
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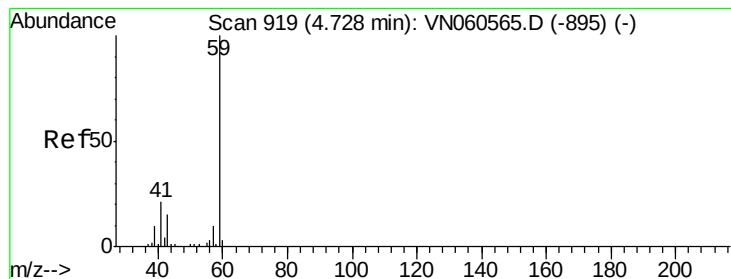
400

200

0

Time--> 2.00 2.02 2.04 2.06 2.08





#11

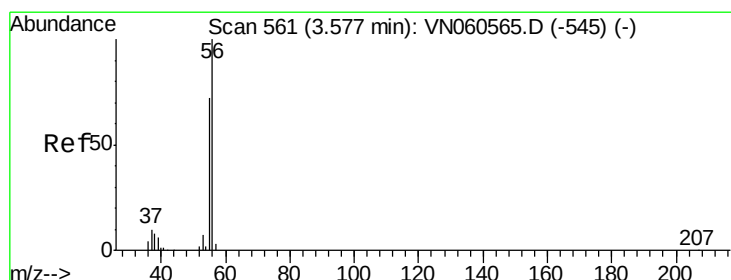
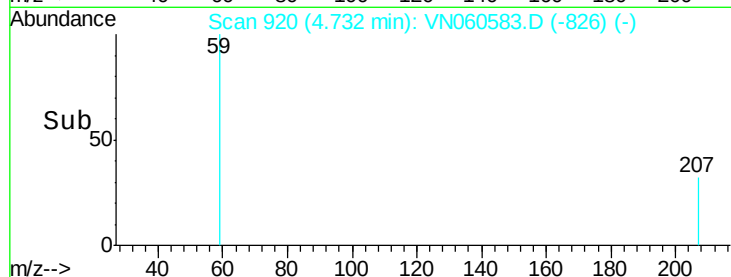
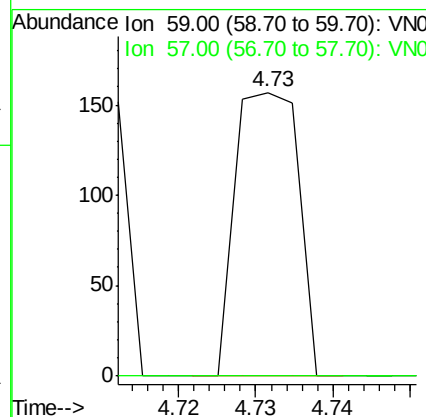
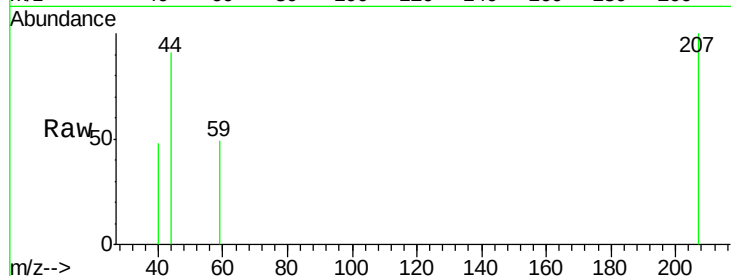
Tert butyl alcohol
 Concen: 0.202 ug/l
 RT: 4.73 min Scan# 920
 Delta R.T. 0.00 min
 Lab File: VN060583.D
 Acq: 18 Mar 2020 11:53

Instrument :
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 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.2	12.4#

Manual Integrations
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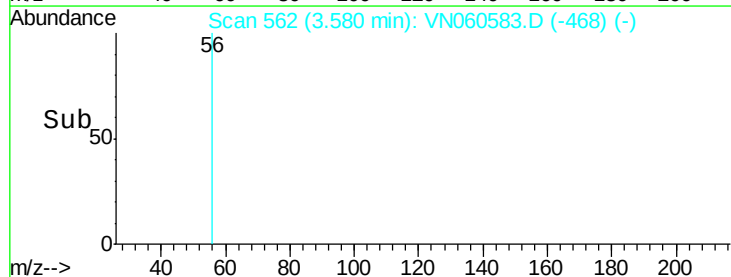
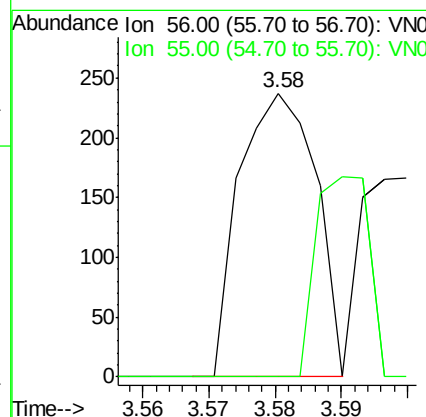
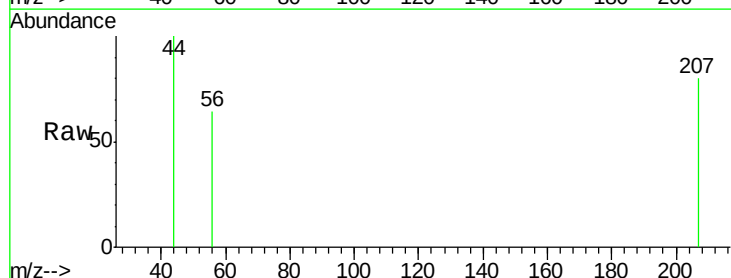
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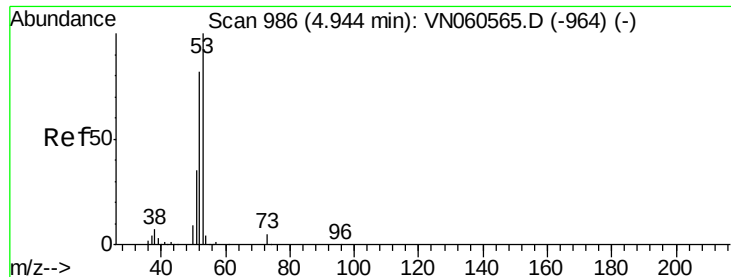


#13

Acrolein
 Concen: 0.389 ug/l
 RT: 3.58 min Scan# 562
 Delta R.T. 0.00 min
 Lab File: VN060583.D
 Acq: 18 Mar 2020 11:53

Tgt Ion	Ratio	Lower	Upper
56	100		
55	0.0	56.7	85.1#





#15

Acrylonitrile

Concen: 0.729 ug/l m

RT: 4.96 min Scan# 990

Delta R.T. 0.01 min

Lab File: VN060583.D

Acq: 18 Mar 2020 11:53

Instrument :

MSVOA_N

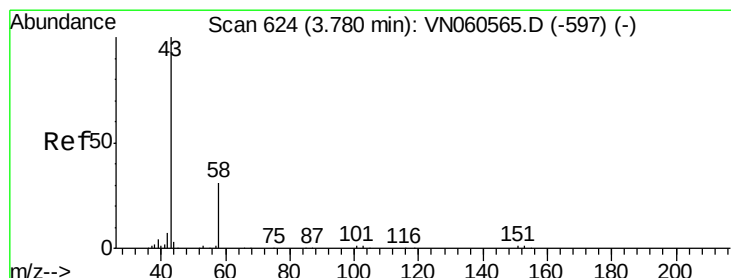
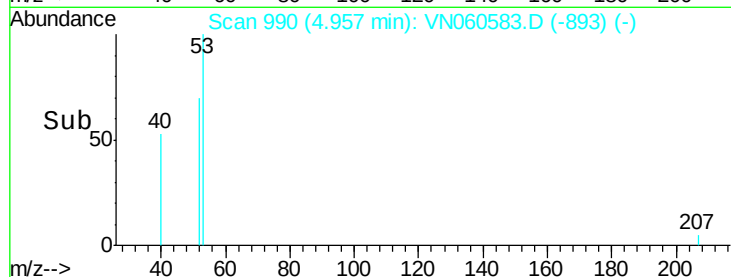
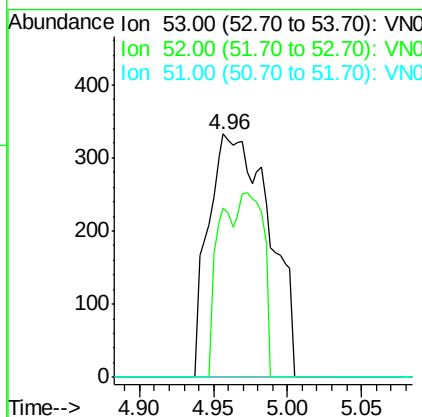
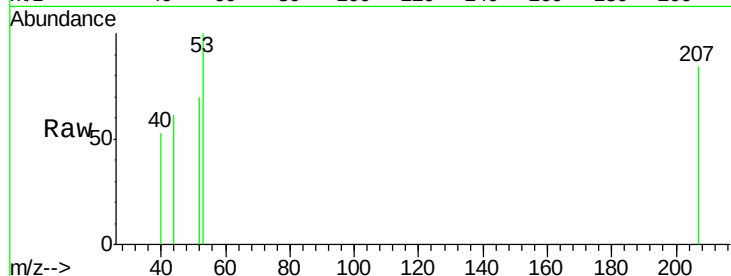
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020DL

Tot Ion:	53	Resp:	944
Ion	Ratio	Lower	Upper
53	100		
52	21.3	66.2	99.4#
51	0.0	28.7	43.1#

Manual Integrations
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#16

Acetone

Concen: 1.388 ug/l

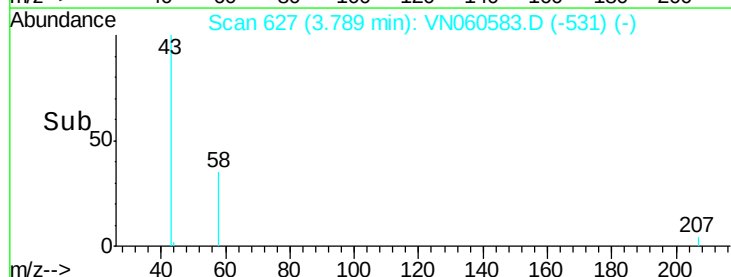
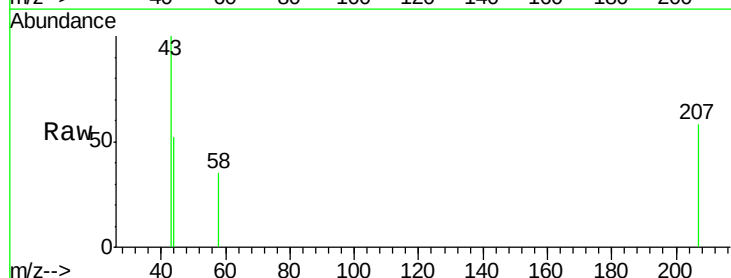
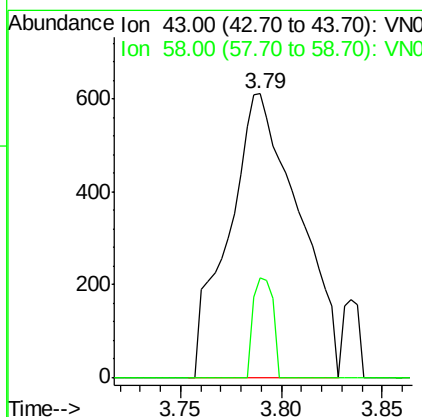
RT: 3.79 min Scan# 627

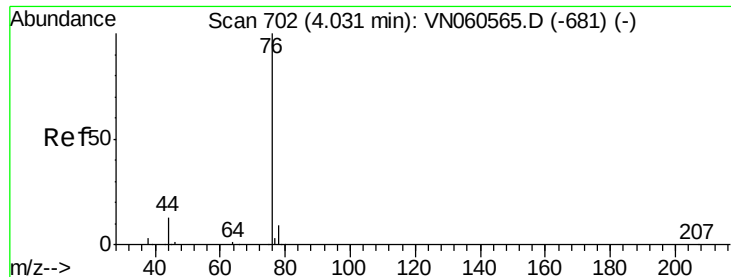
Delta R.T. 0.01 min

Lab File: VN060583.D

Acq: 18 Mar 2020 11:53

Tgt Ion:	43	Resp:	1472
Ion	Ratio	Lower	Upper
43	100		
58	35.2	25.1	37.7





#17

Carbon Disulfide

Concen: 0.390 ug/l

RT: 4.03 min Scan# 703

Delta R.T. 0.00 min

Lab File: VN060583.D

Acq: 18 Mar 2020 11:53

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2020DL

Tot Ion: 76 Resp: 2798

Ion Ratio Lower Upper

76 100

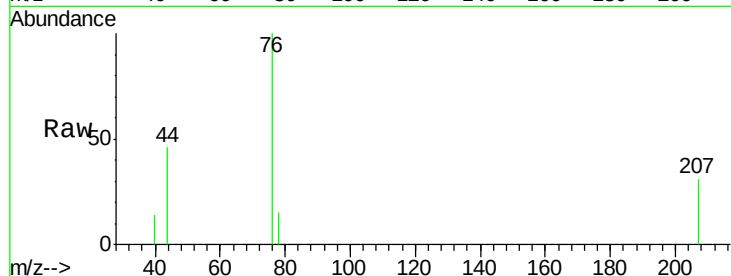
78 15.1 7.2 10.8#

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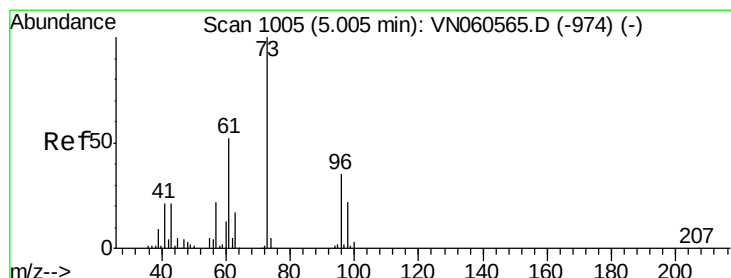
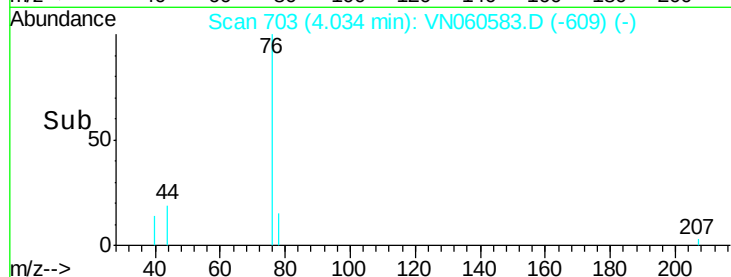
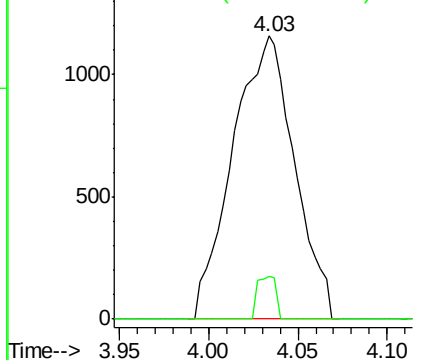
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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#19

Methyl tert-butyl Ether

Concen: 0.212 ug/l

RT: 5.01 min Scan# 1008

Delta R.T. 0.01 min

Lab File: VN060583.D

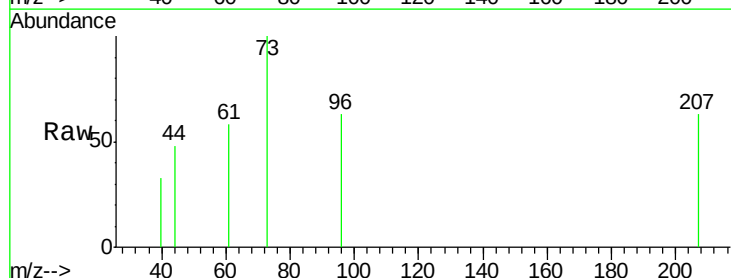
Acq: 18 Mar 2020 11:53

Tgt Ion: 73 Resp: 1721

Ion Ratio Lower Upper

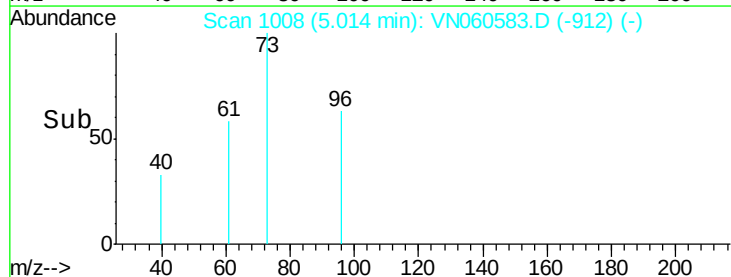
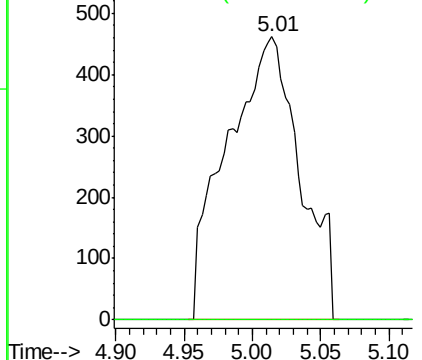
73 100

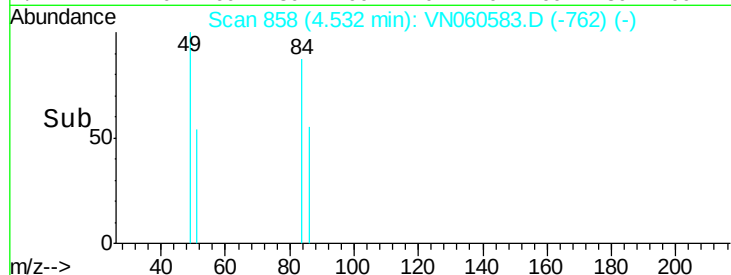
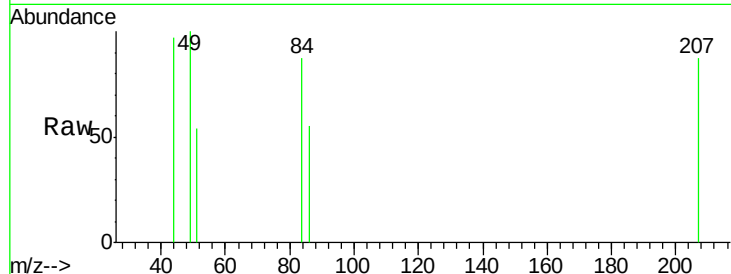
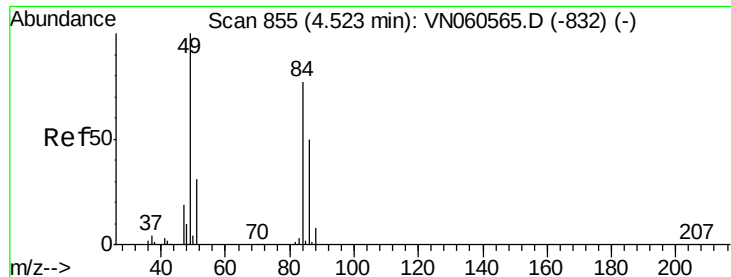
57 0.0 17.5 26.3#



Abundance Ion 73.00 (72.70 to 73.70): VN0

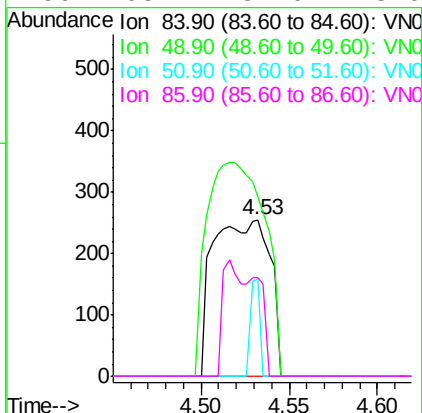
Ion 57.00 (56.70 to 57.70): VN0





#20
Methylene Chloride
Concen: 0.218 ug/l m
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN060583.D
Acq: 18 Mar 2020 11:53

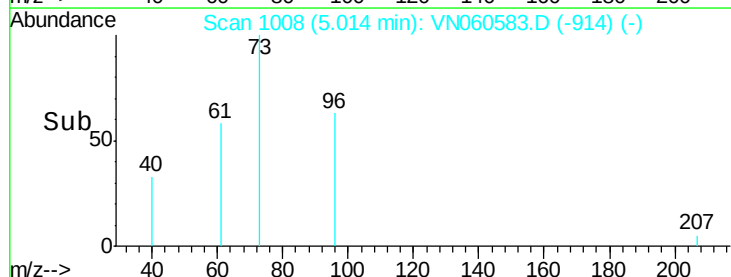
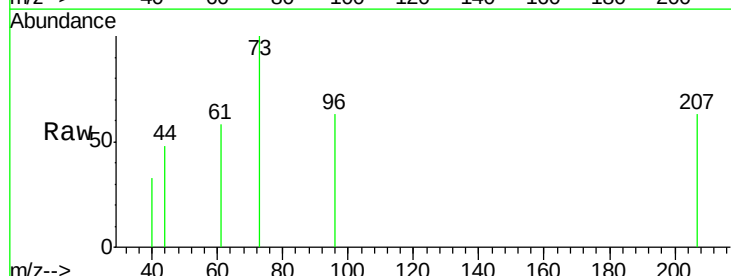
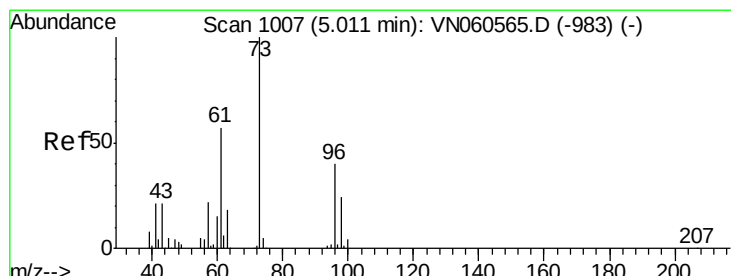
Tot Ion	Ratio	Lower	Upper
84	100		
49	114.9	103.3	154.9
51	62.4	31.6	47.4#
86	63.1	52.0	78.0



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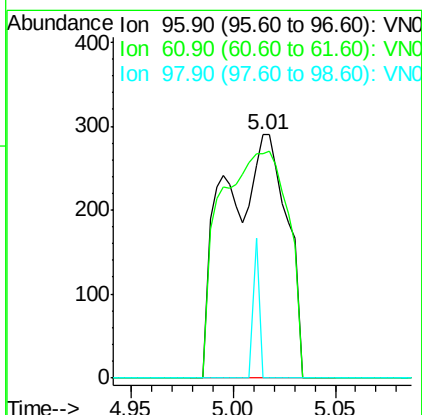
Manual Integrations
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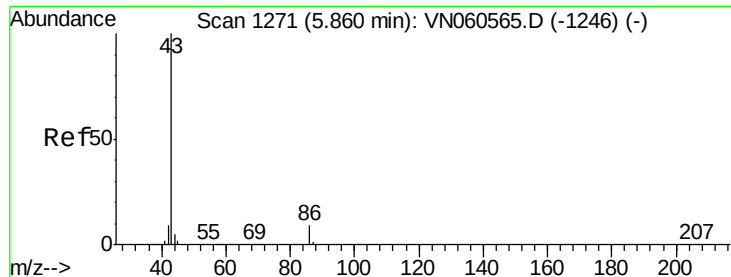
MMDadoda
3/19/2020 1:03:00 PM



#21
trans-1,2-Dichloroethene
Concen: 0.240 ug/l m
RT: 5.01 min Scan# 1008
Delta R.T. 0.00 min
Lab File: VN060583.D
Acq: 18 Mar 2020 11:53

Tgt Ion	Ratio	Lower	Upper
96	100		
61	92.1	114.4	171.6#
98	0.0	48.4	72.6#





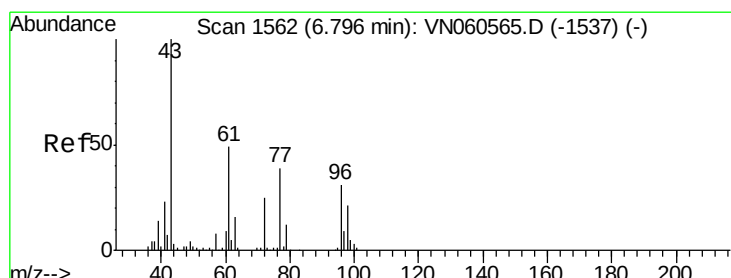
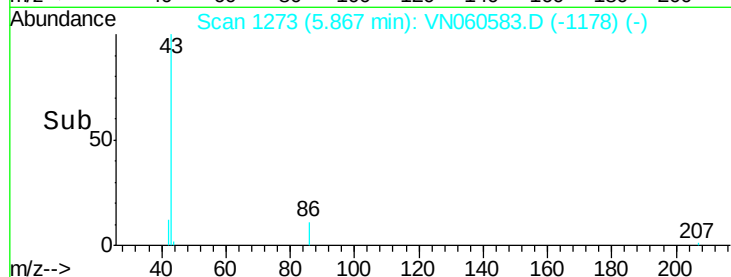
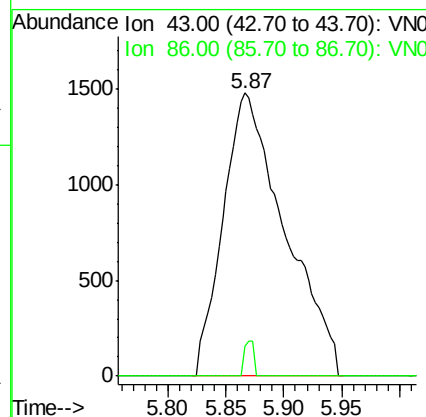
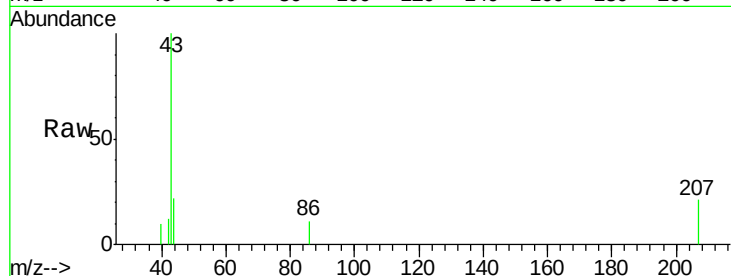
#23
 Vinyl Acetate
 Concen: 0.762 ug/l
 RT: 5.87 min Scan# 1273
 Delta R.T. 0.01 min
 Lab File: VN060583.D
 Acq: 18 Mar 2020 11:53

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2020DL

Tot Ion	43	Resp	5457
Ion Ratio	Lower	Upper	
43	100		
86	10.6	7.6	11.4

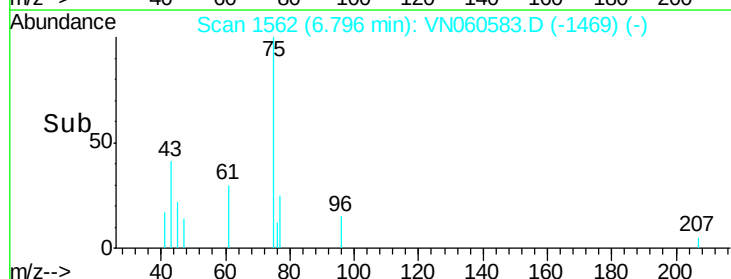
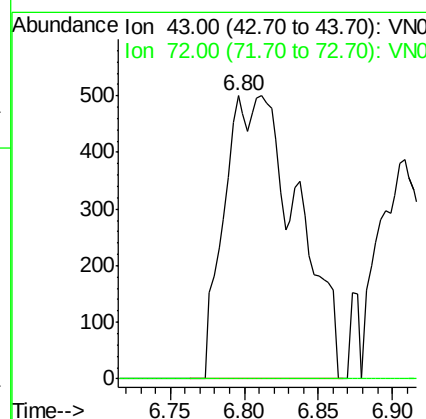
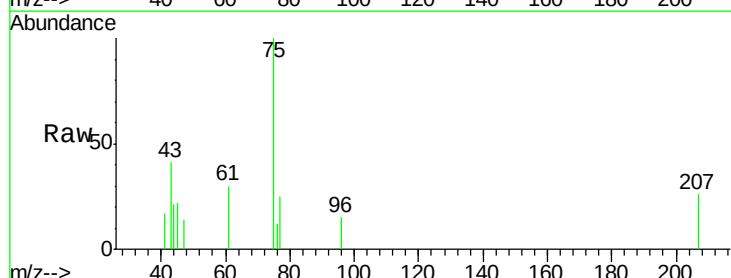
Manual Integrations
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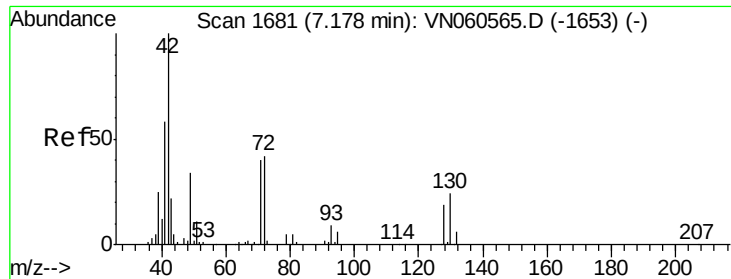
MMDadoda
 3/19/2020 1:03:00 PM



#25
 2-Butanone
 Concen: 0.994 ug/l m
 RT: 6.80 min Scan# 1562
 Delta R.T. 0.00 min
 Lab File: VN060583.D
 Acq: 18 Mar 2020 11:53

Tgt Ion	43	Resp	1707
Ion Ratio	Lower	Upper	
43	100		
72	0.0	20.4	30.6#





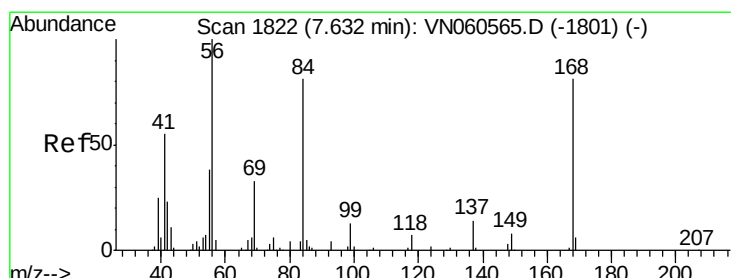
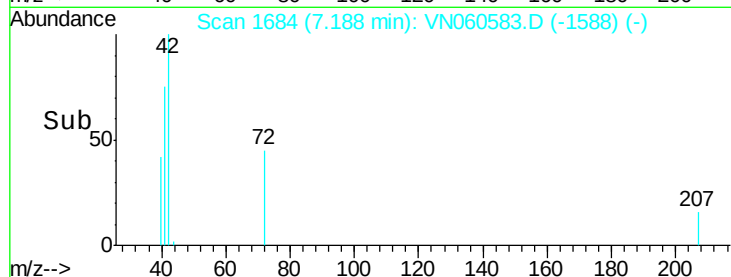
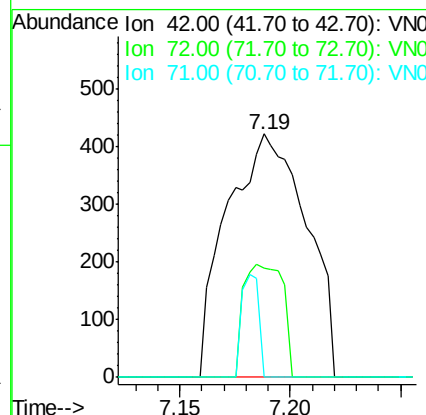
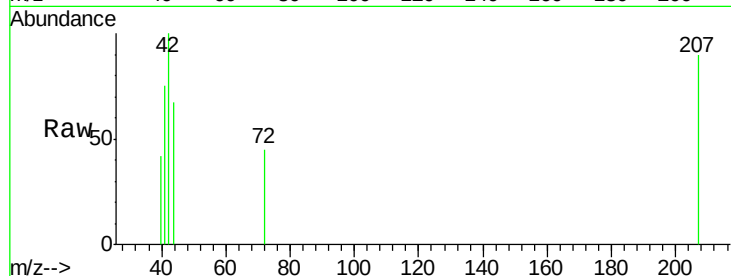
#29
Tetrahydrofuran
Concen: 0.865 ug/l
RT: 7.19 min Scan# 1684
Delta R.T. 0.01 min
Lab File: VN060583.D
Acq: 18 Mar 2020 11:53

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
42	100		
72	23.0	33.2	49.8#
71	9.2	31.1	46.7#

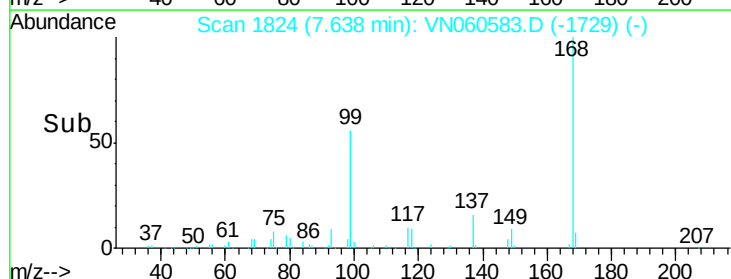
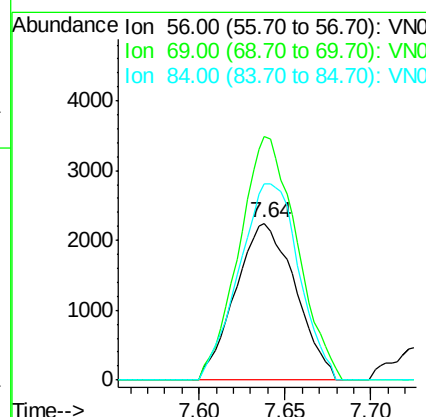
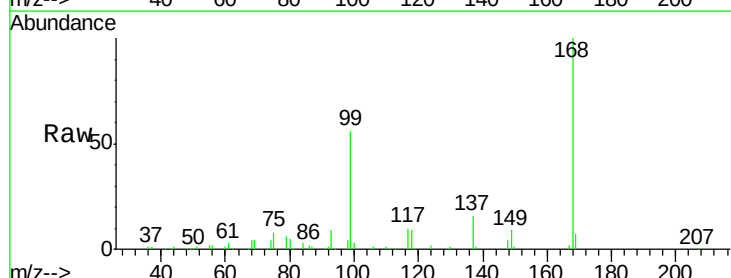
Manual Integrations
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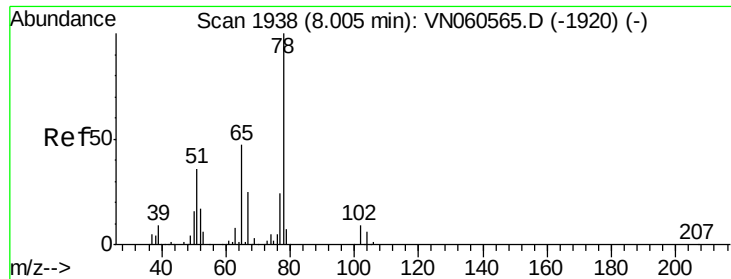
MMDadoda
3/19/2020 1:03:00 PM



#31
Cyclohexane
Concen: 1.129 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN060583.D
Acq: 18 Mar 2020 11:53

Tgt Ion	Ratio	Lower	Upper
56	100		
69	155.0	26.6	40.0#
84	124.8	64.3	96.5#





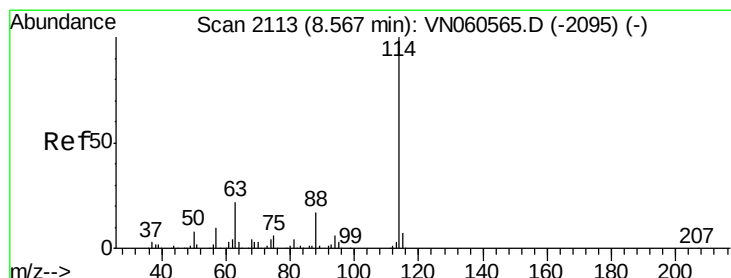
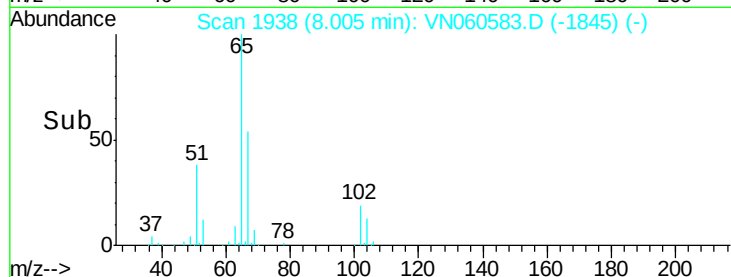
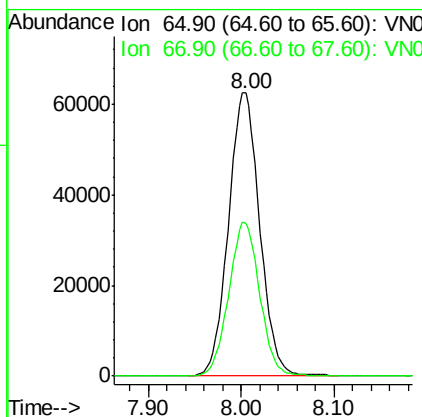
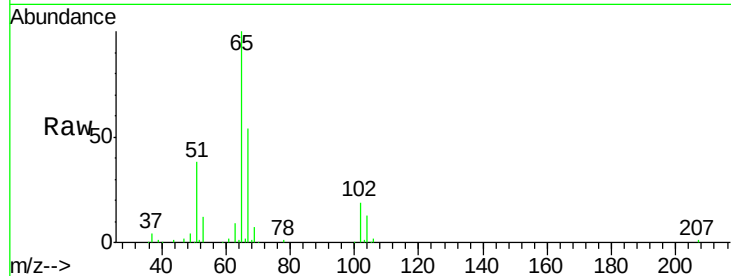
#33
 1,2-Dichloroethane-d4
 Concen: 48.767 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060583.D
 Acq: 18 Mar 2020 11:53

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2020DL

Tot Ion	Ratio	Resp	Lower	Upper
65	100	146044		
67	53.7	0.0	107.6	

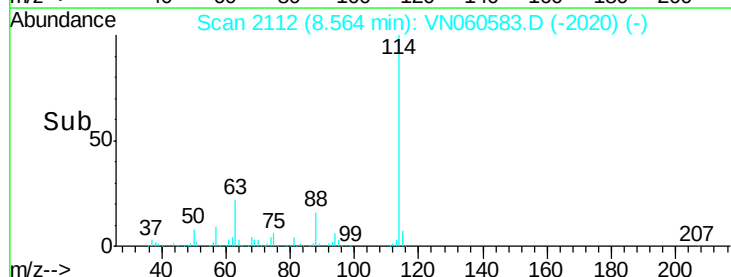
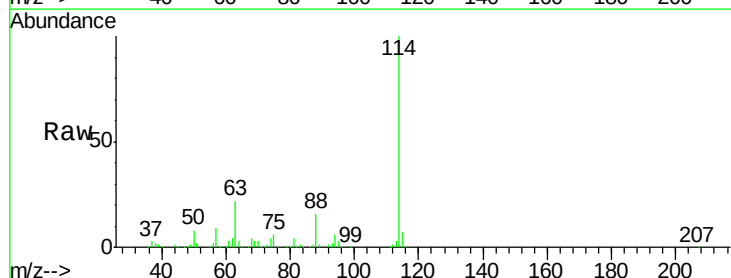
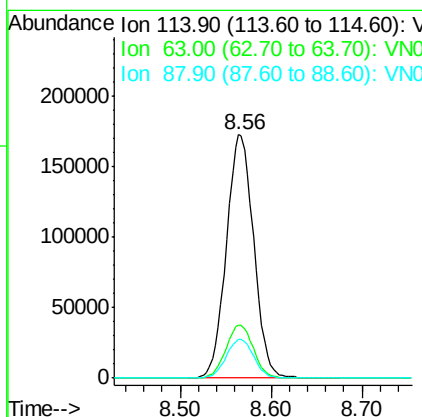
Manual Integrations
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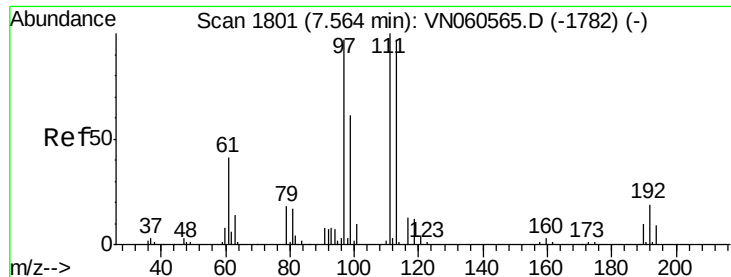
MMDadoda
 3/19/2020 1:03:00 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VN060583.D
 Acq: 18 Mar 2020 11:53

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	360045		
63	21.8	0.0	43.8	
88	15.9	0.0	33.0	





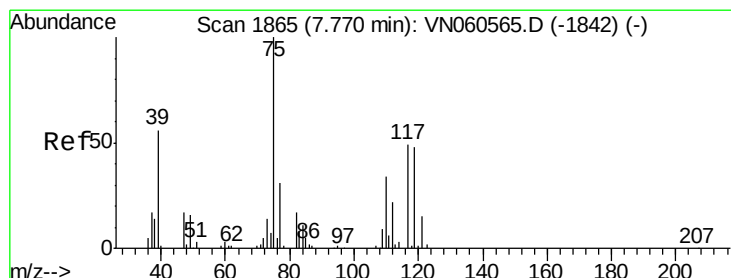
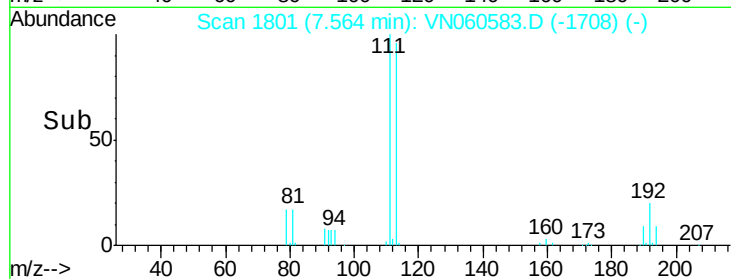
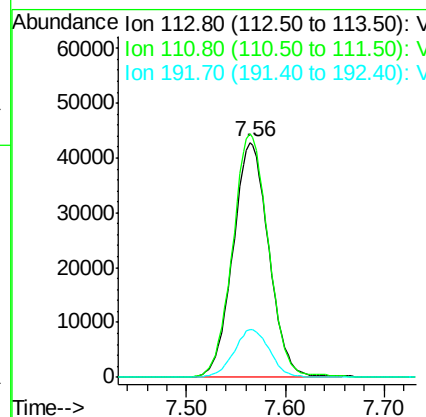
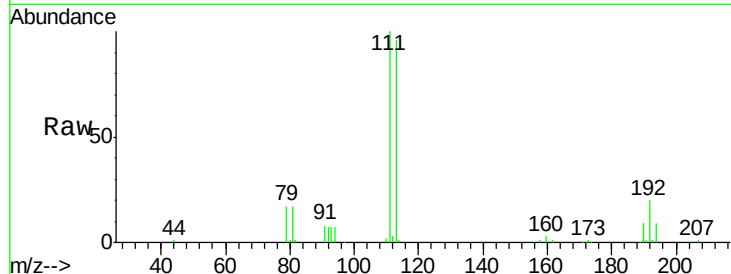
#35
 Dibromofluoromethane
 Concen: 49.544 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. 0.00 min
 Lab File: VN060583.D
 Acq: 18 Mar 2020 11:53

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.9	82.9	124.3
192	20.3	15.8	23.8

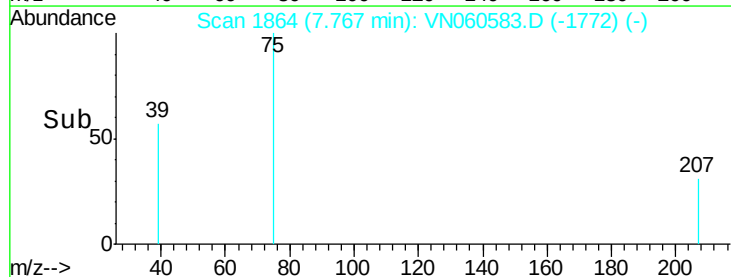
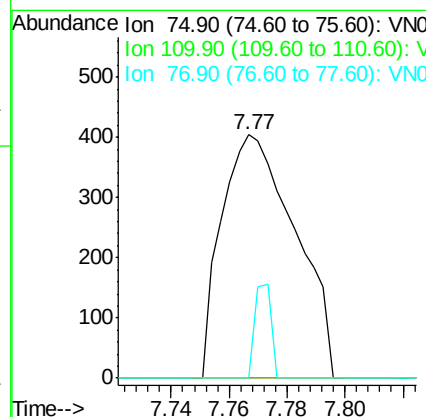
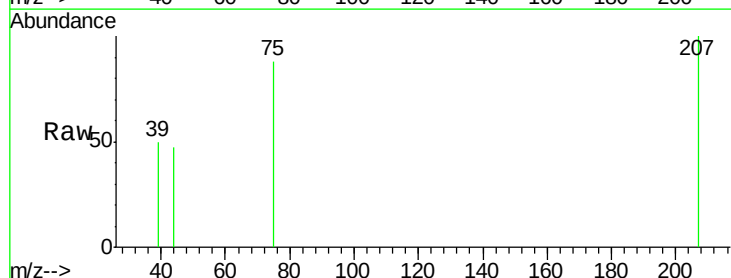
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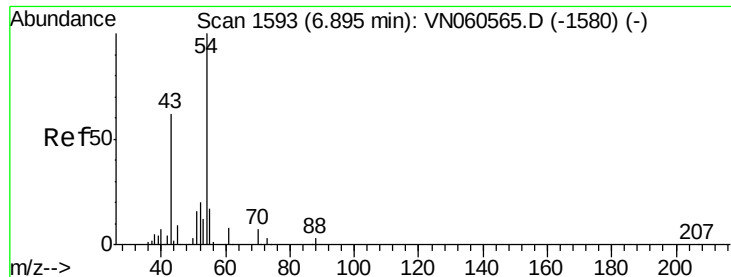
MMDadoda
 3/19/2020 1:03:00 PM



#36
 1,1-Dichloropropene
 Concen: 0.204 ug/l
 RT: 7.77 min Scan# 1864
 Delta R.T. -0.00 min
 Lab File: VN060583.D
 Acq: 18 Mar 2020 11:53

Tgt Ion	Ratio	Lower	Upper
75	100		
110	0.0	16.9	50.6#
77	8.3	24.6	36.8#





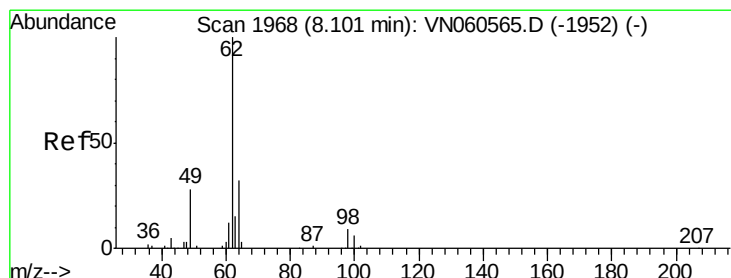
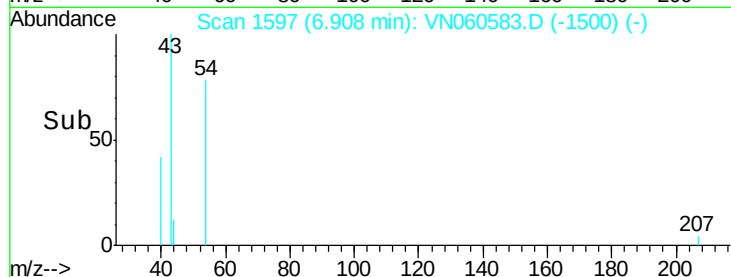
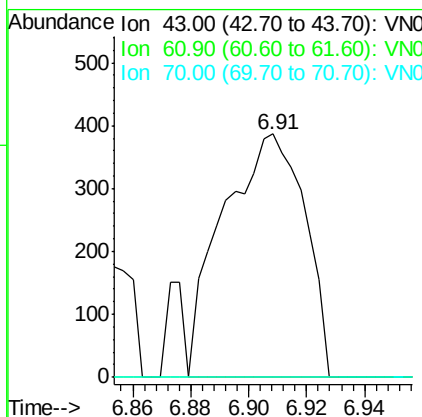
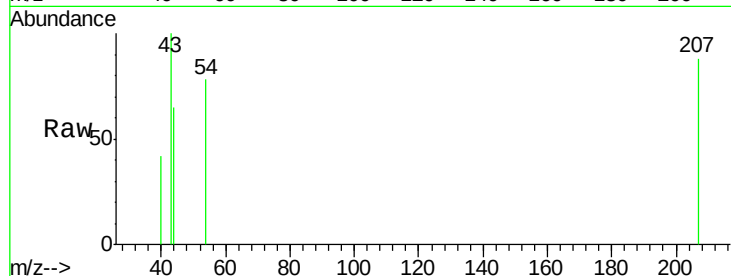
#37
Ethyl Acetate
Concen: 0.201 ug/l
RT: 6.91 min Scan# 1597
Delta R.T. 0.01 min
Lab File: VN060583.D
Acq: 18 Mar 2020 11:53

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.6	15.8#
70	0.0	7.9	11.9#

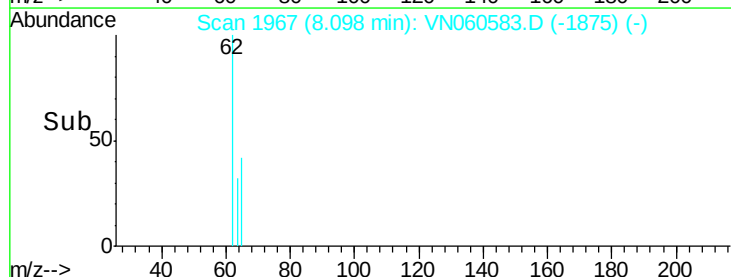
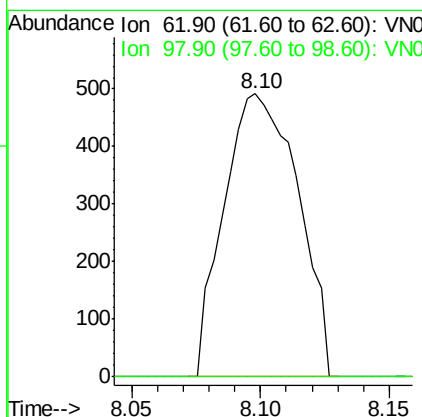
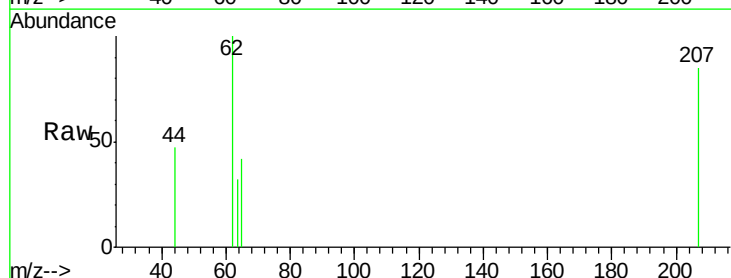
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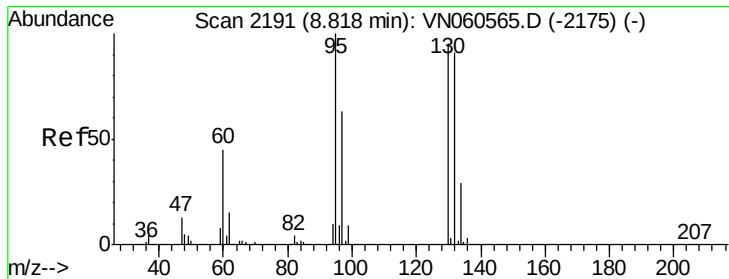
MMDadoda
3/19/2020 1:03:00 PM



#42
1,2-Dichloroethane
Concen: 0.273 ug/l
RT: 8.10 min Scan# 1967
Delta R.T. -0.00 min
Lab File: VN060583.D
Acq: 18 Mar 2020 11:53

Tgt Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	17.8





#44

Trichloroethene

Concen: 0.208 ug/l

RT: 8.82 min Scan# 2191

Delta R.T. 0.00 min

Lab File: VN060583.D

Acq: 18 Mar 2020 11:53

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2020DL

Tot Ion:130 Resp: 553

Ion Ratio Lower Upper

130 100

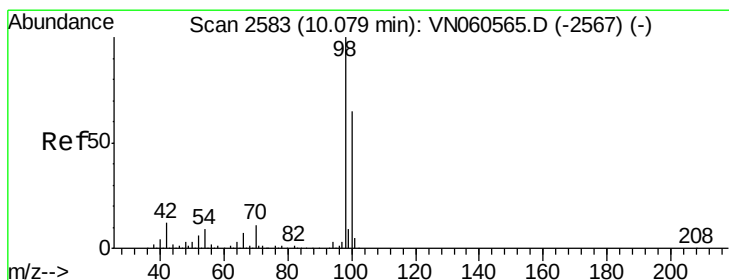
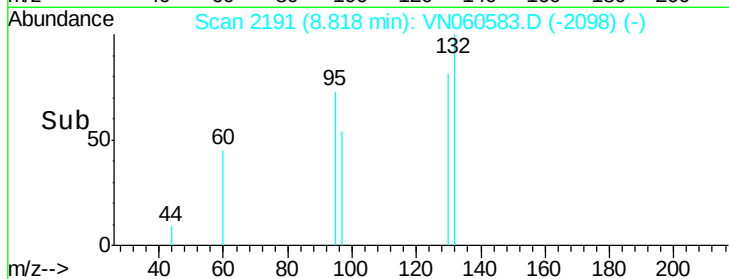
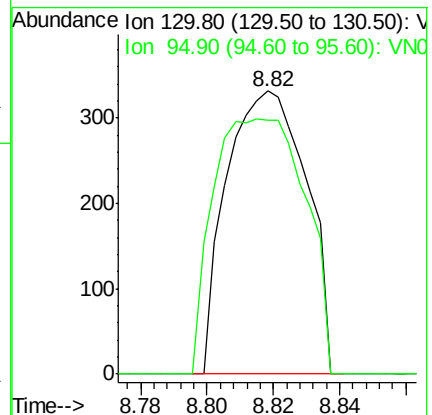
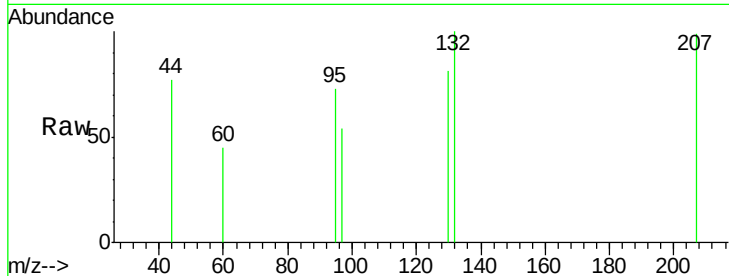
95 89.8 0.0 211.2

Manual Integrations

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MMDadoda

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#50

Toluene-d8

Concen: 48.868 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. -0.00 min

Lab File: VN060583.D

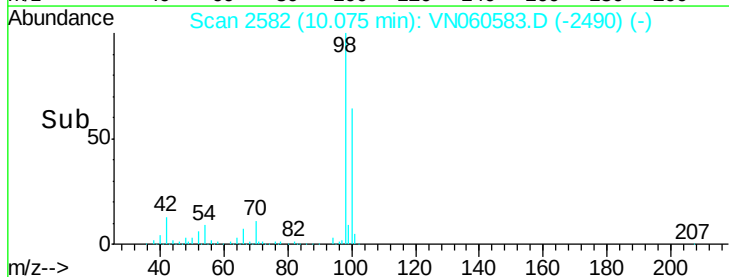
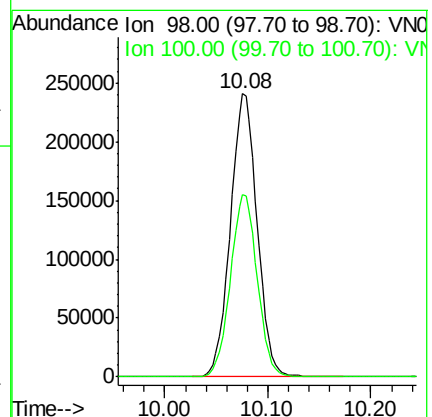
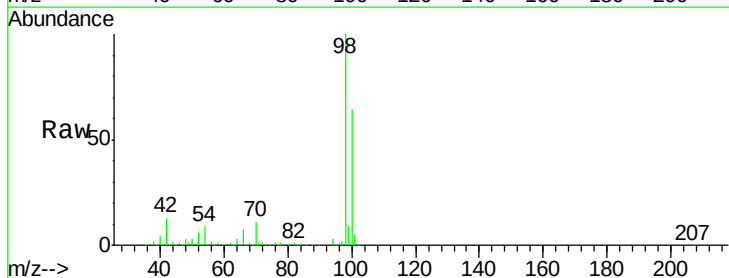
Acq: 18 Mar 2020 11:53

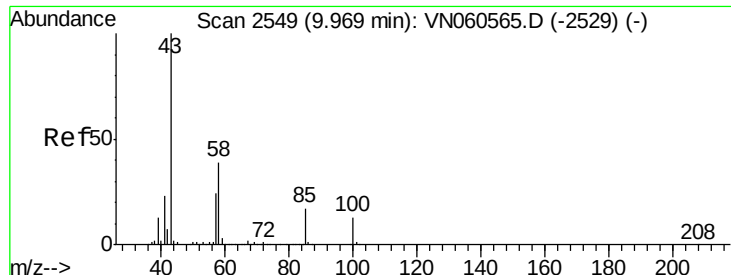
Tgt Ion: 98 Resp: 434561

Ion Ratio Lower Upper

98 100

100 64.6 51.8 77.8





#51

4-Methyl-2-Pentanone

Concen: 1.019 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060583.D

Acq: 18 Mar 2020 11:53

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2020DL

Tot Ion: 43 Resp: 3601

Ion Ratio Lower Upper

43 100

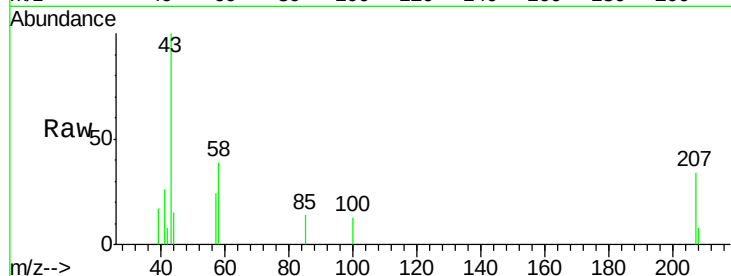
58 37.5 30.8 46.2

Manual Integrations

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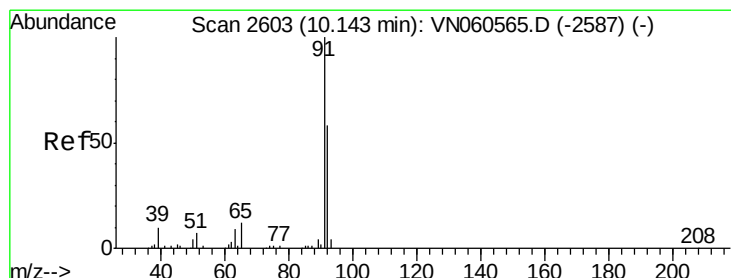
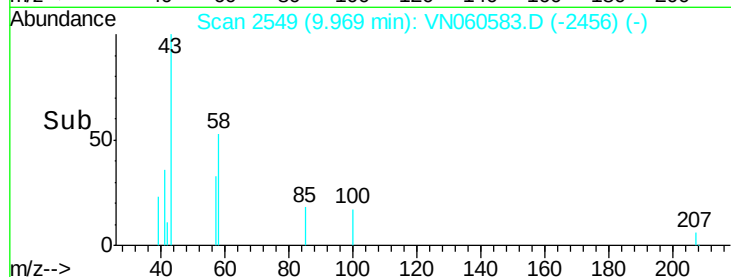
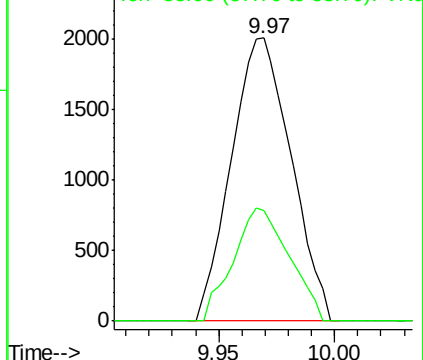
MMDadoda

3/19/2020 1:03:00 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 0.234 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. 0.00 min

Lab File: VN060583.D

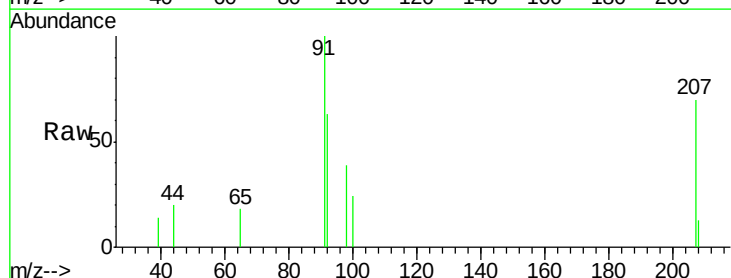
Acq: 18 Mar 2020 11:53

Tgt Ion: 92 Resp: 1485

Ion Ratio Lower Upper

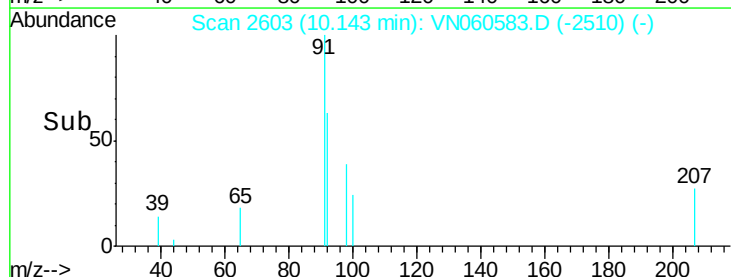
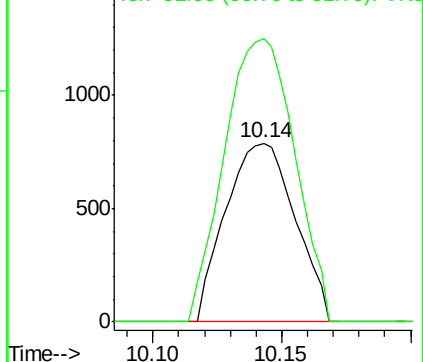
92 100

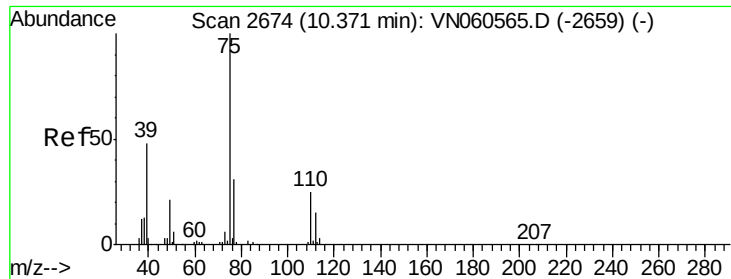
91 160.3 137.6 206.4



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





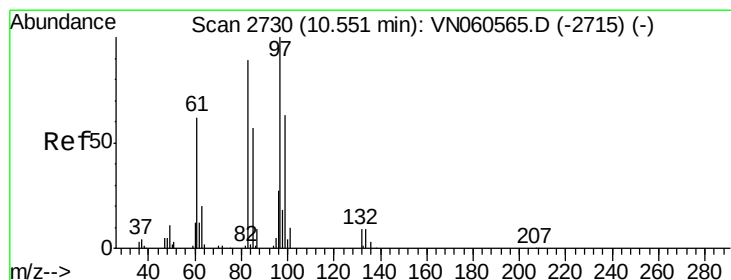
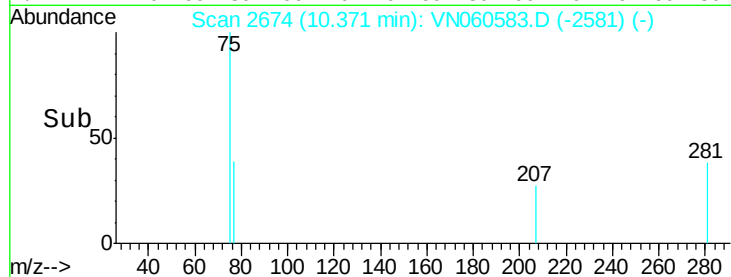
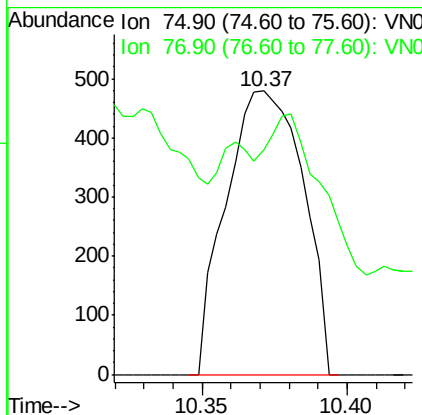
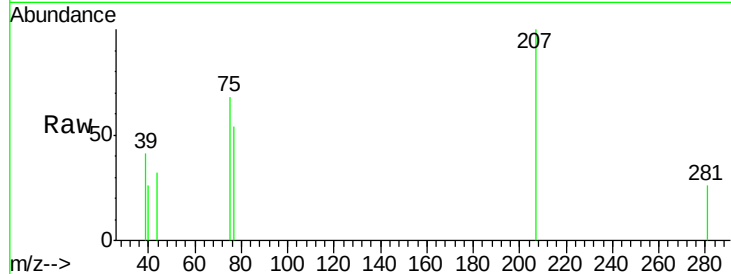
#53
t-1,3-Dichloropropene
Concen: 0.221 ug/l
RT: 10.37 min Scan# 2674
Delta R.T. 0.00 min
Lab File: VN060583.D
Acq: 18 Mar 2020 11:53

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
75	100		
77	25.5	25.1	37.7

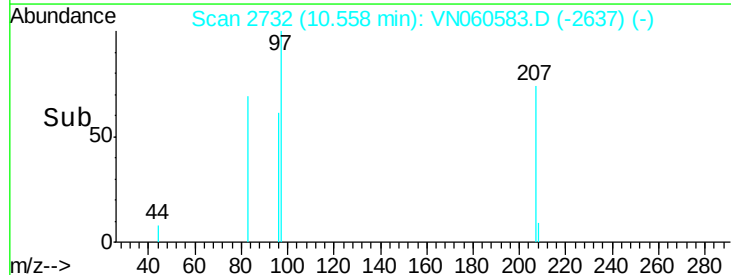
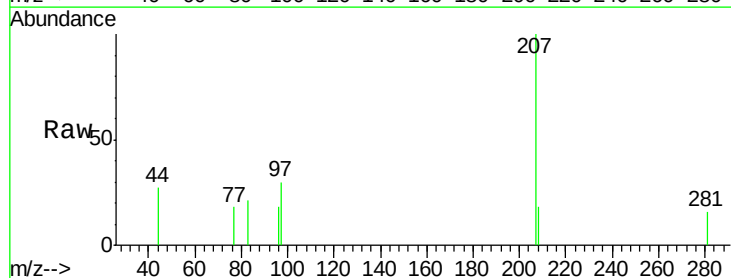
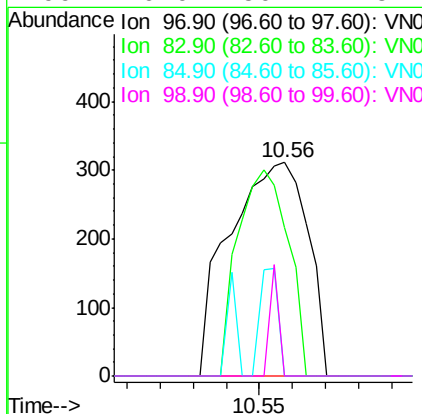
Manual Integrations
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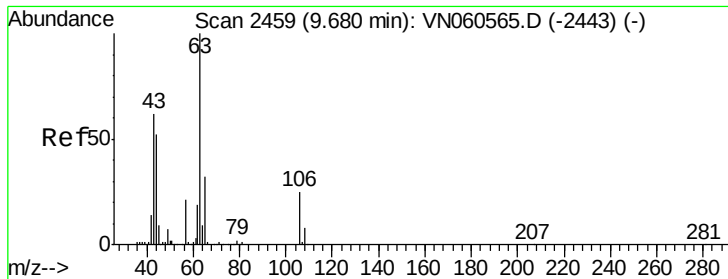
MMDadoda
3/19/2020 1:03:00 PM



#55
1,1,2-Trichloroethane
Concen: 0.209 ug/l
RT: 10.56 min Scan# 2732
Delta R.T. 0.01 min
Lab File: VN060583.D
Acq: 18 Mar 2020 11:53

Tgt Ion	Ratio	Lower	Upper
97	100		
83	69.5	71.3	106.9#
85	0.0	45.2	67.8#
99	0.0	50.1	75.1#





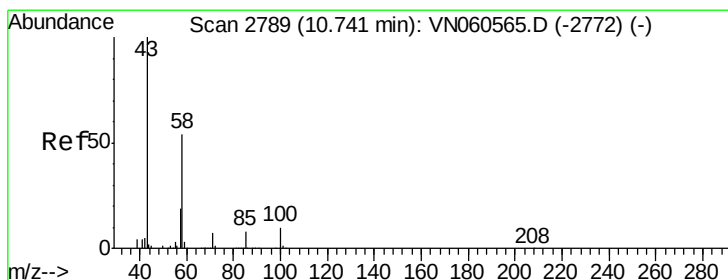
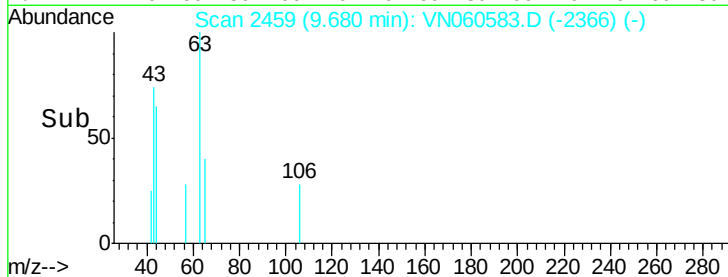
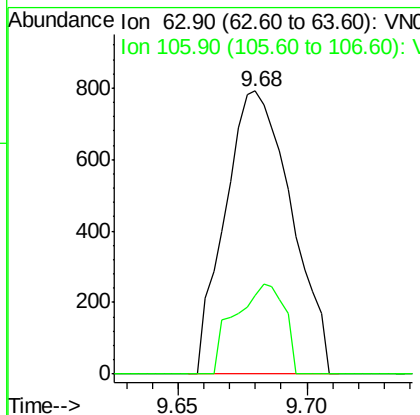
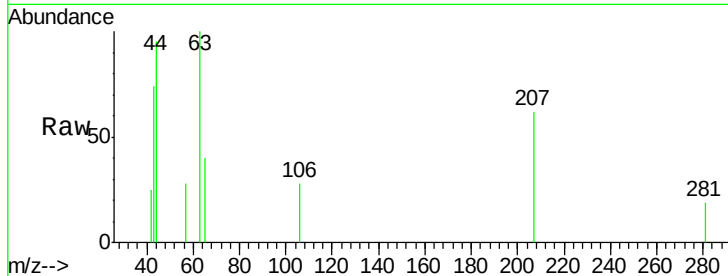
#58
2-Chloroethyl Vinyl ether
Concen: 0.749 ug/l
RT: 9.68 min Scan# 2459
Delta R.T. 0.00 min
Lab File: VN060583.D
Acq: 18 Mar 2020 11:53

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2020DL

Tot Ion: 63 Resp: 1420
Ion Ratio Lower Upper
63 100
106 23.9 20.0 30.0

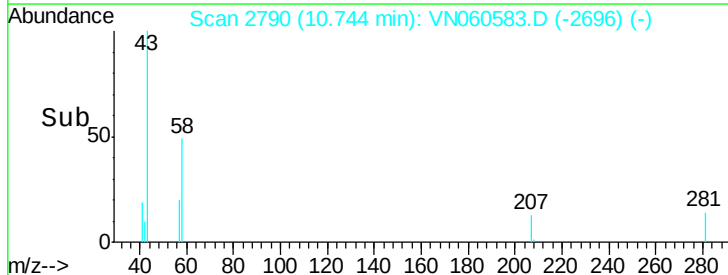
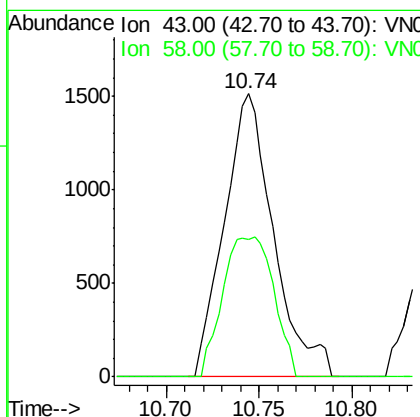
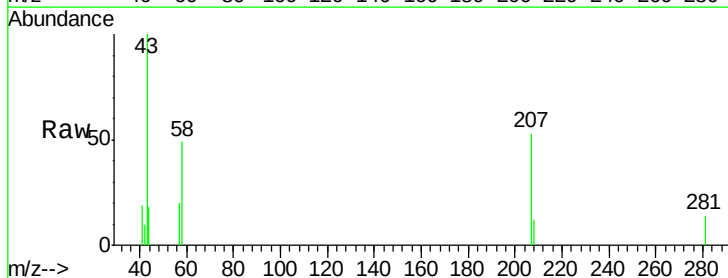
Manual Integrations
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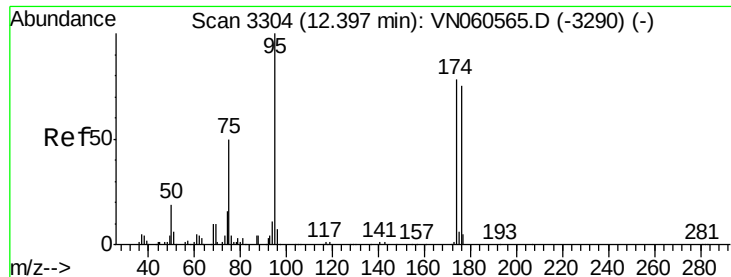
MMDadoda
3/19/2020 1:03:00 PM



#59
2-Hexanone
Concen: 1.099 ug/l
RT: 10.74 min Scan# 2790
Delta R.T. 0.00 min
Lab File: VN060583.D
Acq: 18 Mar 2020 11:53

Tgt Ion: 43 Resp: 2798
Ion Ratio Lower Upper
43 100
58 51.1 26.7 80.1





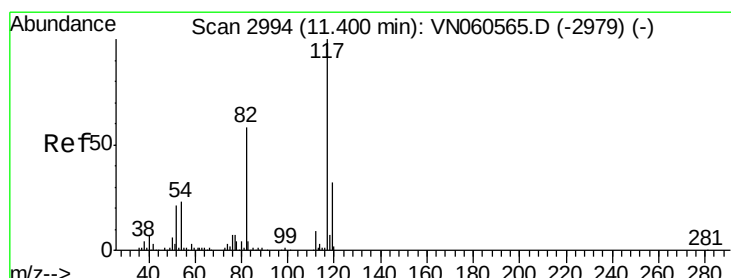
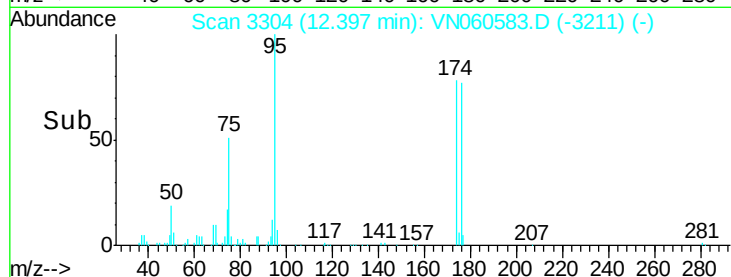
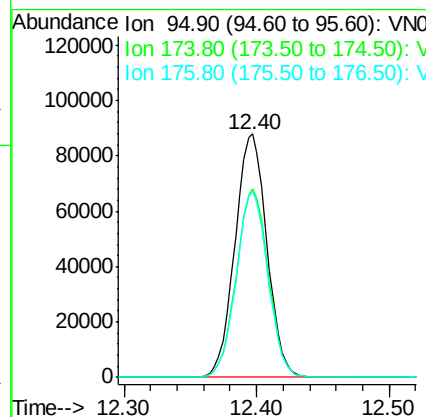
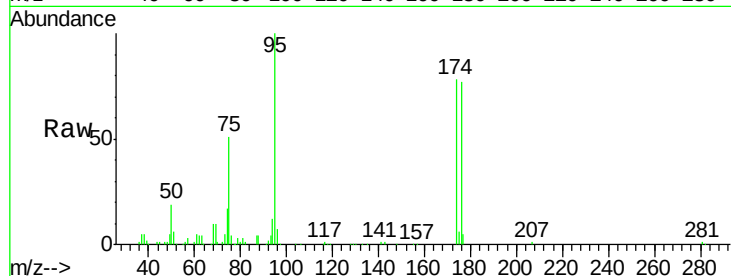
#62
4-Bromofluorobenzene
Concen: 45.069 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060583.D
Acq: 18 Mar 2020 11:53

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2020DL

Tot Ion	Ratio	Resp	Lower	Upper
95	100	146879		
174	77.6	0.0	157.6	
176	75.5	0.0	150.6	

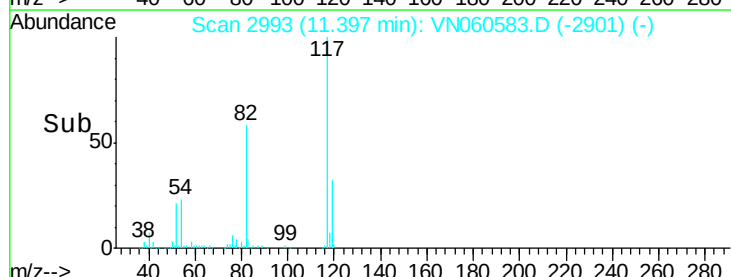
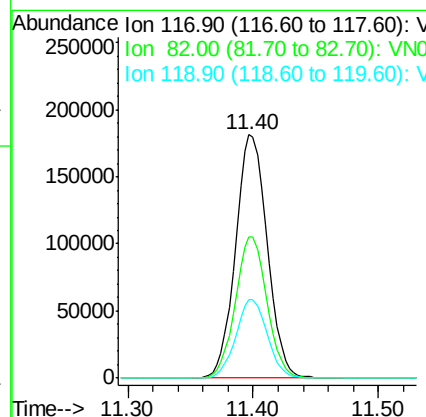
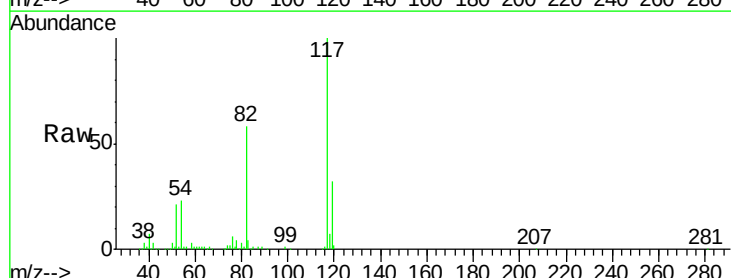
Manual Integrations
APPROVED

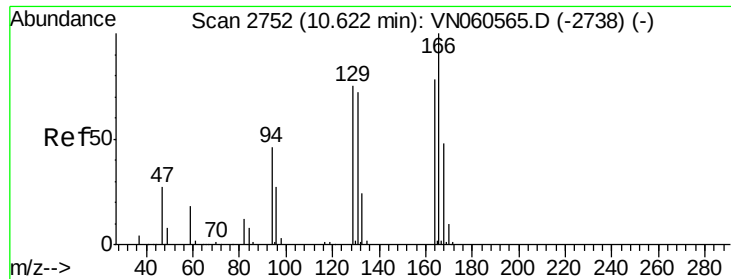
MMDadoda
3/19/2020 1:03:00 PM



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2993
Delta R.T. -0.00 min
Lab File: VN060583.D
Acq: 18 Mar 2020 11:53

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	318225		
82	58.1	46.7	70.1	
119	32.1	25.5	38.3	





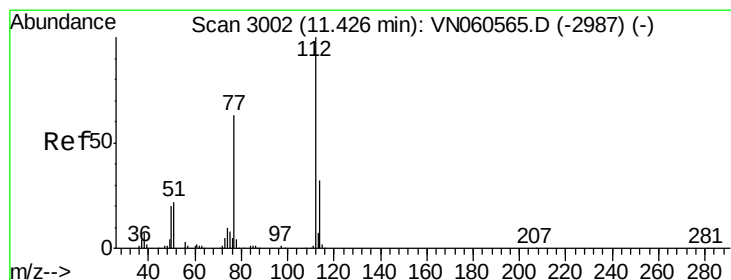
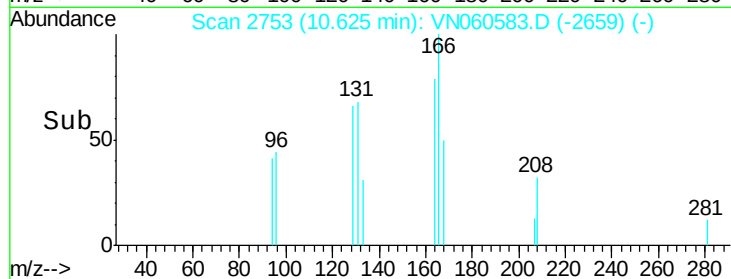
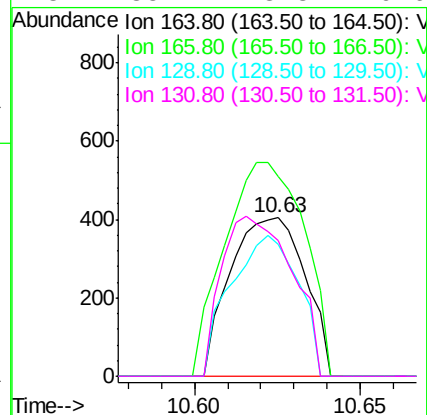
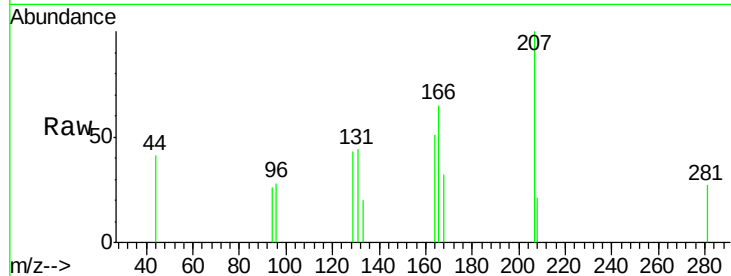
#64
Tetrachloroethene
Concen: 0.254 ug/l
RT: 10.63 min Scan# 2753
Delta R.T. 0.00 min
Lab File: VN060583.D
Acq: 18 Mar 2020 11:53

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
164	100		
166	126.5	102.7	154.1
129	83.7	77.2	115.8
131	85.4	73.8	110.6

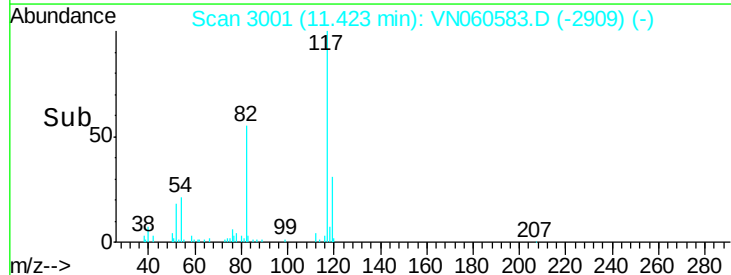
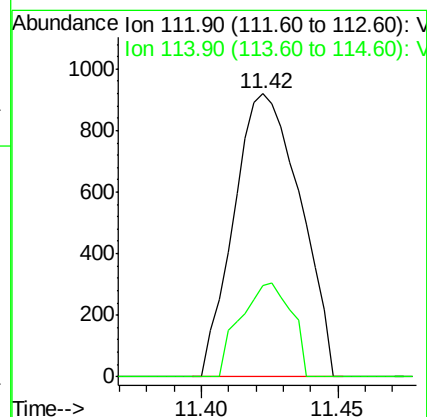
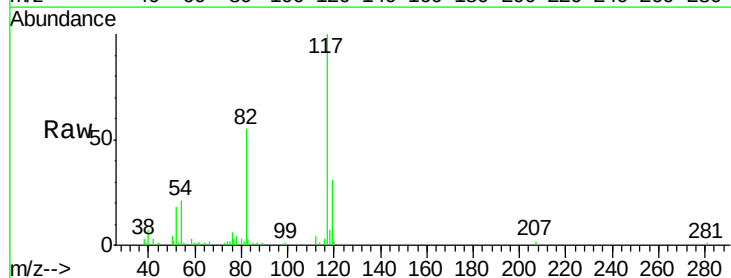
Manual Integrations
APPROVED

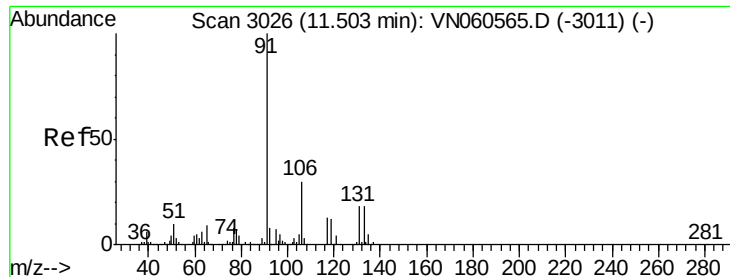
MMDadoda
3/19/2020 1:03:00 PM



#65
Chlorobenzene
Concen: 0.246 ug/l
RT: 11.42 min Scan# 3001
Delta R.T. -0.00 min
Lab File: VN060583.D
Acq: 18 Mar 2020 11:53

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.3	25.8	38.6





#67

Ethyl Benzene

Concen: 0.214 ug/l

RT: 11.50 min Scan# 3026

Delta R.T. 0.00 min

Lab File: VN060583.D

Acq: 18 Mar 2020 11:53

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2020DL

Tot Ion: 91 Resp: 2516

Ion Ratio Lower Upper

91 100

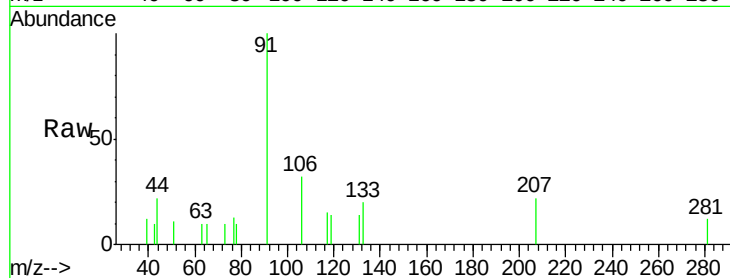
106 32.4 24.2 36.2

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN060565.D (-3011) (-)

Ion 106.00 (105.70 to 106.70): VN060565.D (-3011) (-)

11.50

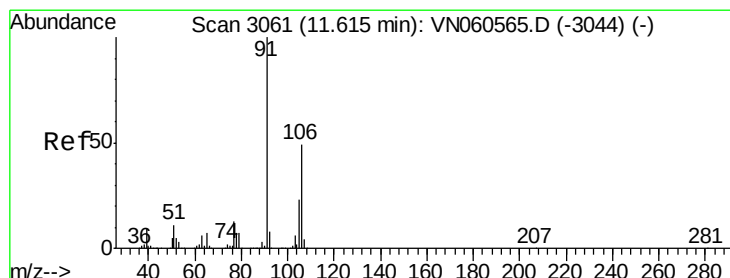
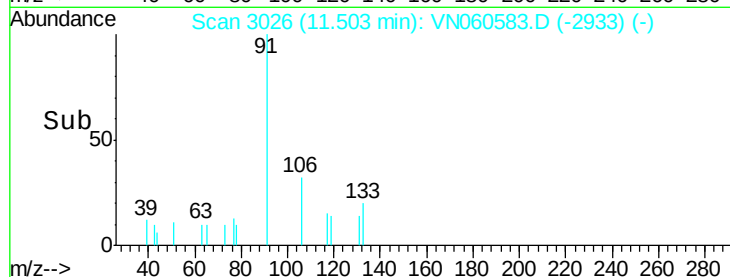
1500

1000

500

0

Time--> 11.45 11.50 11.55



#68

m/p-Xylenes

Concen: 0.450 ug/l

RT: 11.62 min Scan# 3061

Delta R.T. 0.00 min

Lab File: VN060583.D

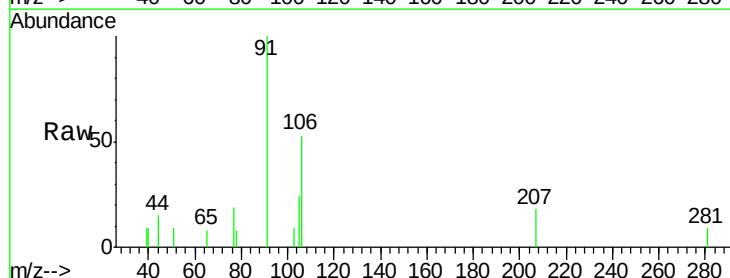
Acq: 18 Mar 2020 11:53

Tgt Ion: 106 Resp: 1960

Ion Ratio Lower Upper

106 100

91 208.7 165.0 247.4



Abundance Ion 106.00 (105.70 to 106.70): VN060565.D (-3044) (-)

Ion 91.00 (90.70 to 91.70): VN060565.D (-3044) (-)

11.62

2500

2000

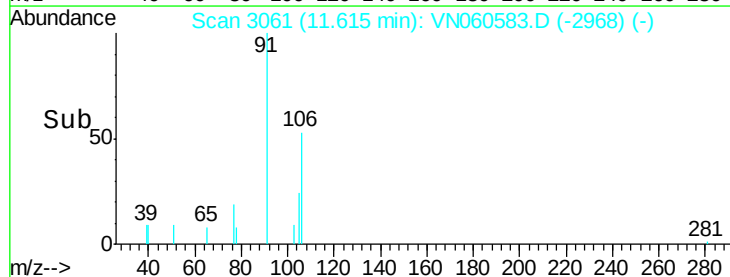
1500

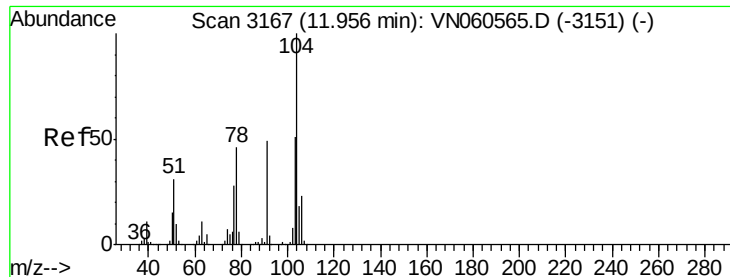
1000

500

0

Time--> 11.60 11.65





#70

Stvrene

Concen: 0.243 ug/l

RT: 11.96 min Scan# 3167

Delta R.T. 0.00 min

Lab File: VN060583.D

Acq: 18 Mar 2020 11:53

Instrument :

MSVOA_N

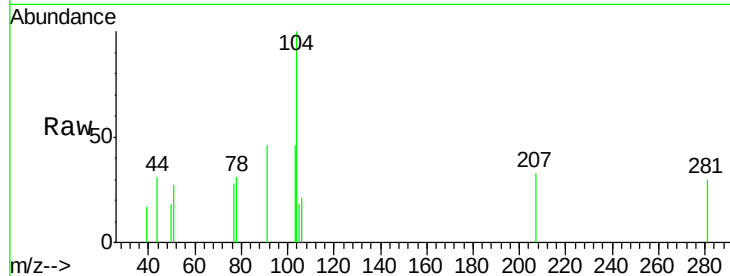
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020DL

Tot Ion:	104	Resp:	1654
Ion Ratio	Lower	Upper	
104	100		
78	39.8	41.2	61.8#
103	42.3	44.0	66.0#

Manual Integrations
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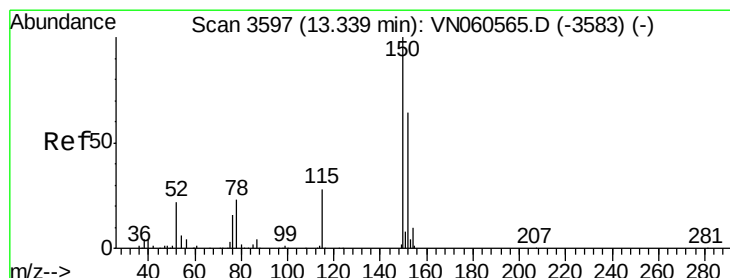
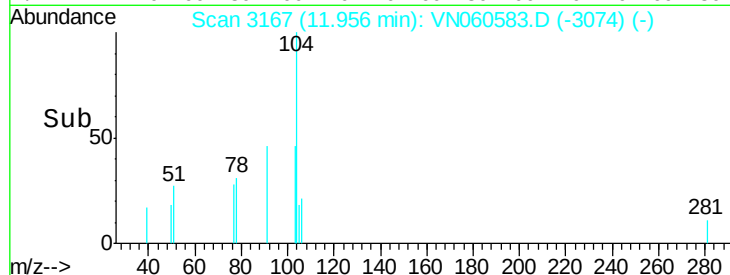
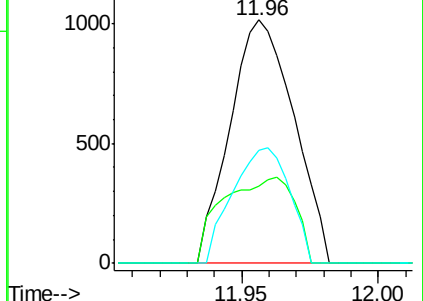
MMDadoda
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Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

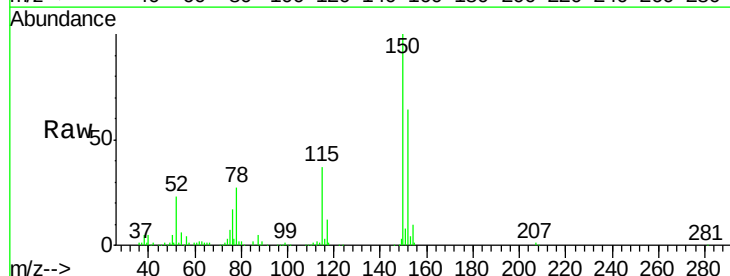
RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060583.D

Acq: 18 Mar 2020 11:53

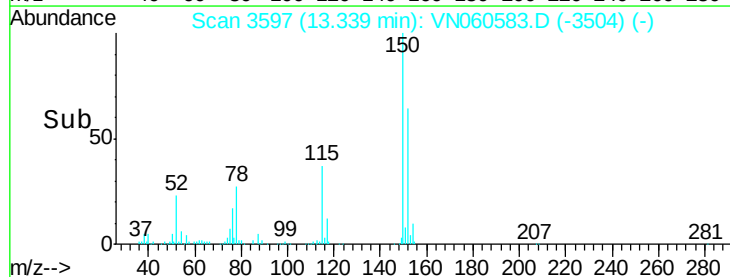
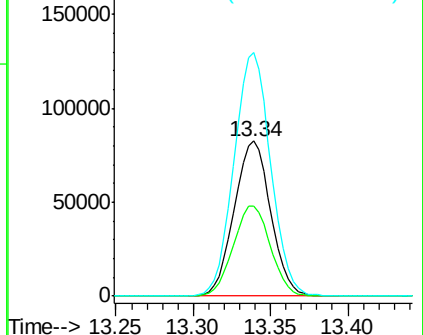
Tgt Ion:	152	Resp:	135373
Ion Ratio	Lower	Upper	
152	100		
115	59.2	30.2	90.6
150	157.7	0.0	350.2

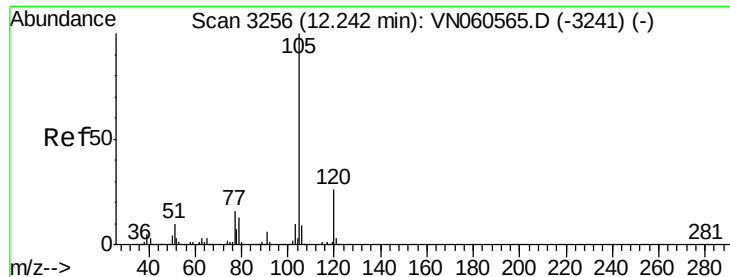


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 0.224 ug/l

RT: 12.24 min Scan# 3256

Delta R.T. 0.00 min

Lab File: VN060583.D

Acq: 18 Mar 2020 11:53

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2020DL

Tot Ion: 105 Resp: 2275

Ion Ratio Lower Upper

105 100

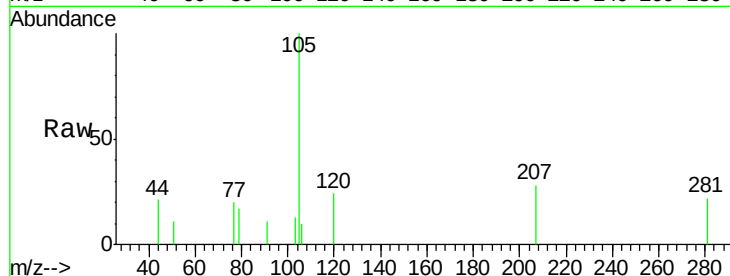
120 25.0 13.1 39.1

Manual Integrations

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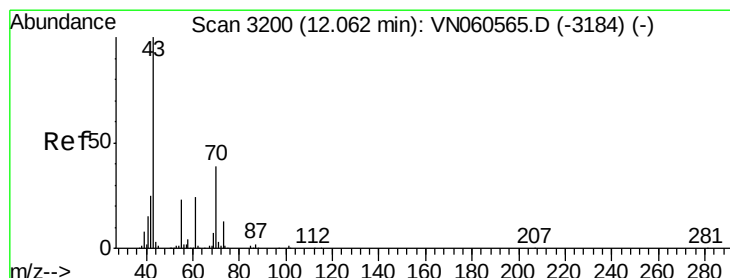
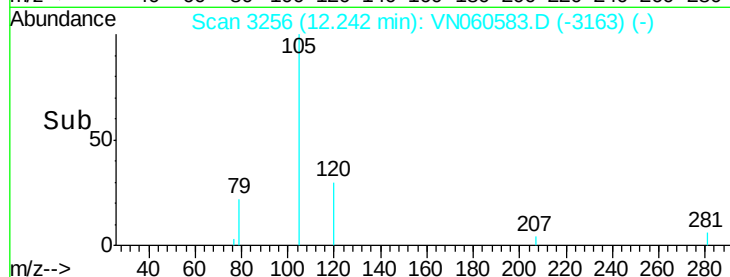
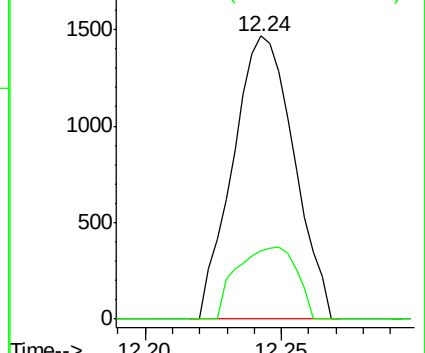
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 0.297 ug/l

RT: 12.07 min Scan# 3201

Delta R.T. 0.00 min

Lab File: VN060583.D

Acq: 18 Mar 2020 11:53

Tgt Ion: 43 Resp: 1392

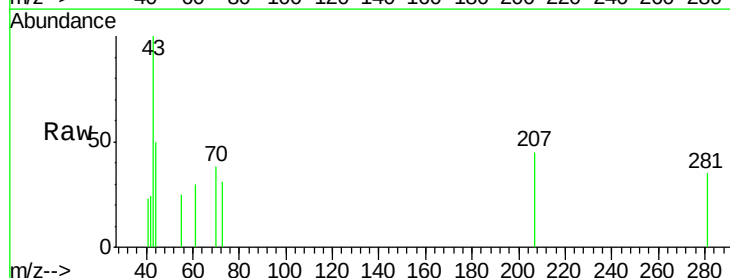
Ion Ratio Lower Upper

43 100

70 24.6 31.1 46.7#

55 10.1 18.6 27.8#

61 17.4 18.9 28.3#

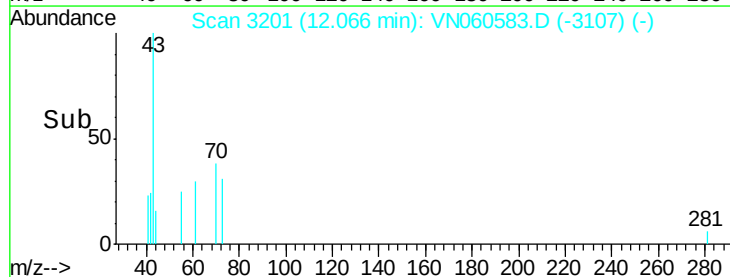
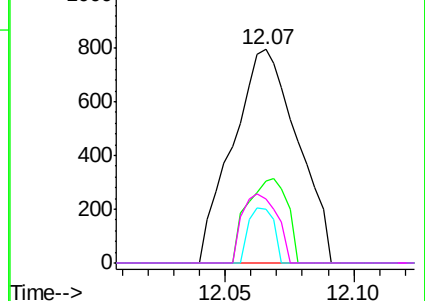


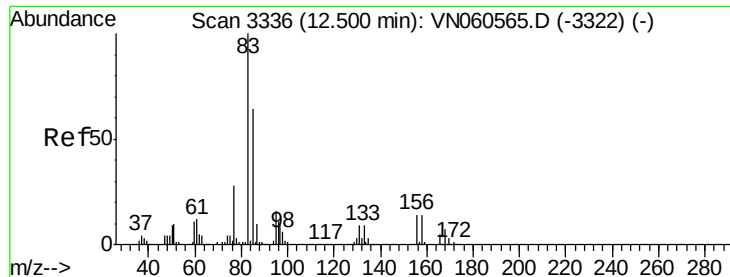
Abundance Ion 43.00 (42.70 to 43.70): V

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





#75

1,1,2,2-Tetrachloroethane

Concen: 0.240 ug/l

RT: 12.50 min Scan# 3336

Delta R.T. 0.00 min

Lab File: VN060583.D

Acq: 18 Mar 2020 11:53

Instrument :

MSVOA_N

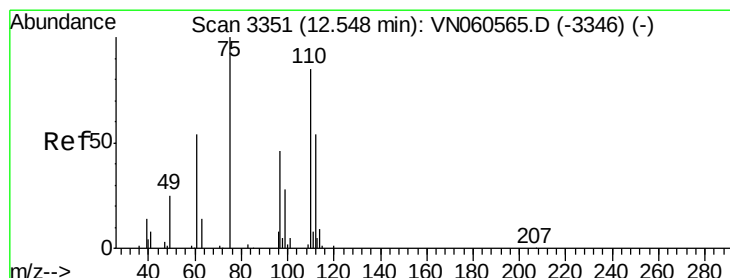
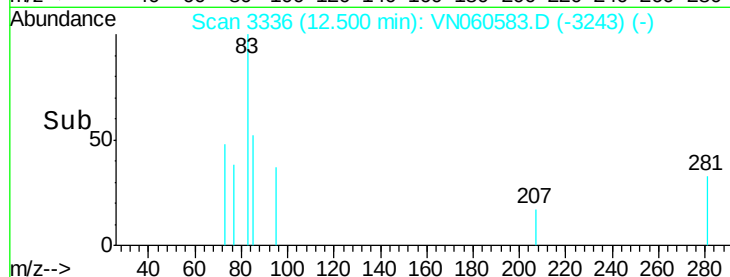
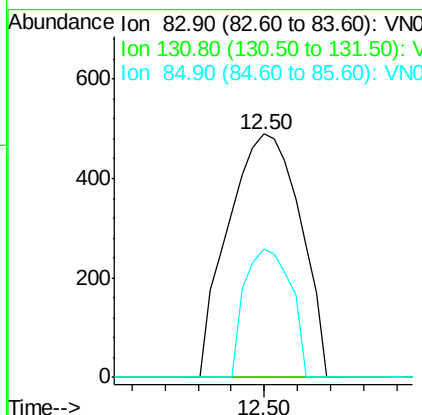
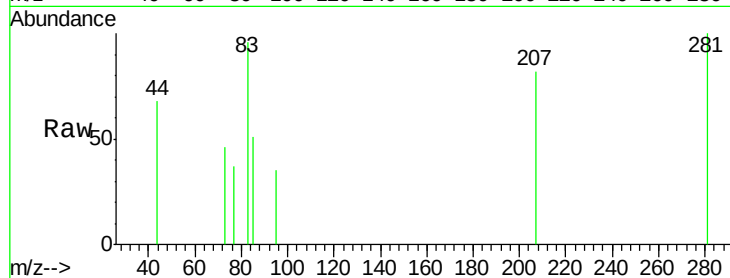
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020DL

Tot Ion:	83	Resp:	738
Ion Ratio	Lower	Upper	
83	100		
131	0.0	4.9	14.7#
85	33.7	32.5	97.4

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 0.374 ug/l m

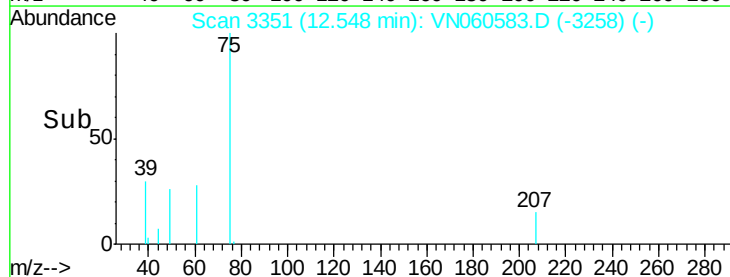
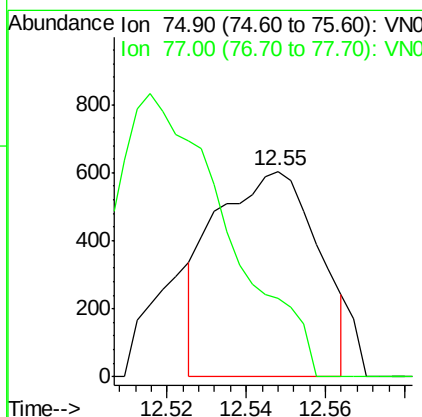
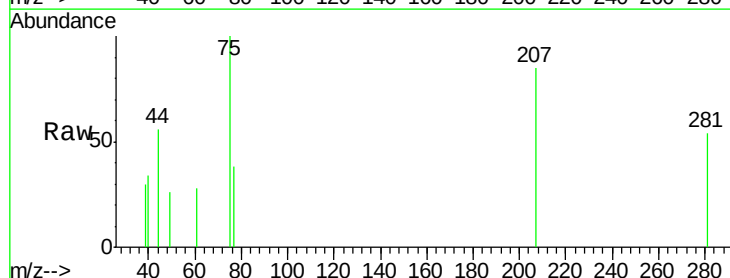
RT: 12.55 min Scan# 3351

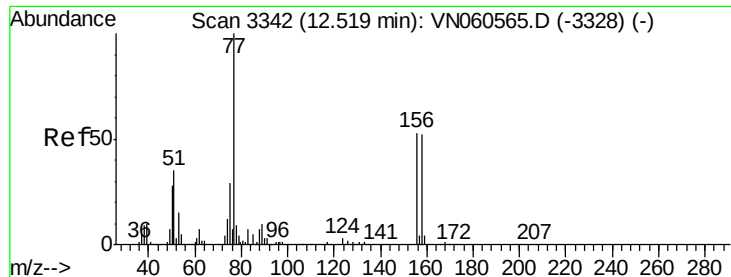
Delta R.T. 0.00 min

Lab File: VN060583.D

Acq: 18 Mar 2020 11:53

Tgt Ion:	75	Resp:	1092
Ion Ratio	Lower	Upper	
75	100		
77	71.0	0.0	0.0#





#77

Bromobenzene

Concen: 0.275 ug/l

RT: 12.52 min Scan# 3343

Delta R.T. 0.00 min

Lab File: VN060583.D

Acq: 18 Mar 2020 11:53

Instrument :

MSVOA_N

ClientSampleId :

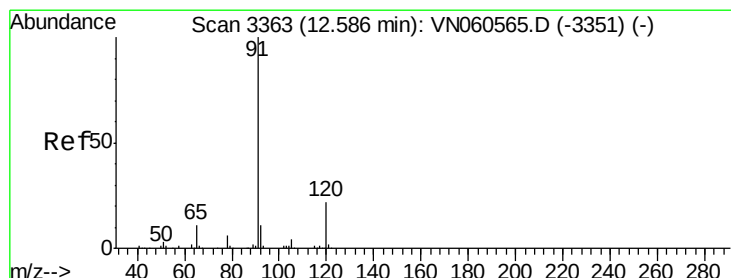
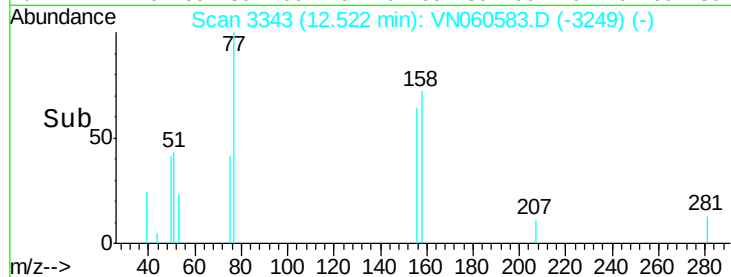
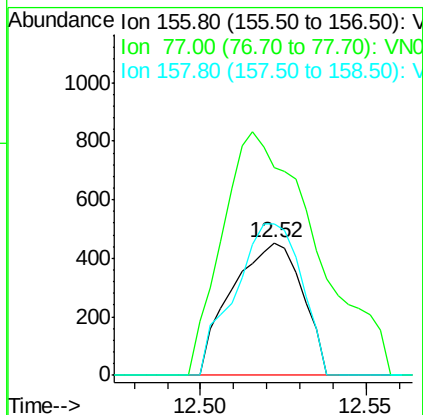
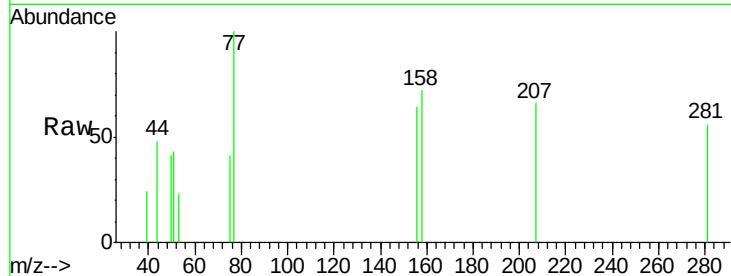
LOD-MDL-WATER-01-QT1-2020DL

Tot Ion:156 Resp: 674

Ion	Ratio	Lower	Upper
156	100		
77	242.7	112.3	337.0
158	107.9	48.6	145.8

Manual Integrations
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3/19/2020 1:03:00 PM



#78

n-propylbenzene

Concen: 0.288 ug/l

RT: 12.59 min Scan# 3363

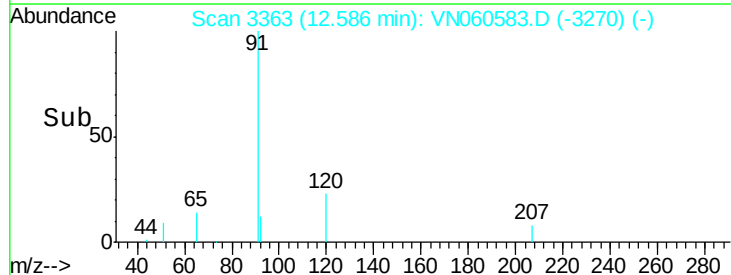
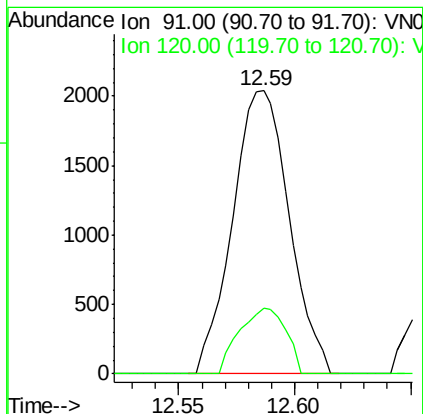
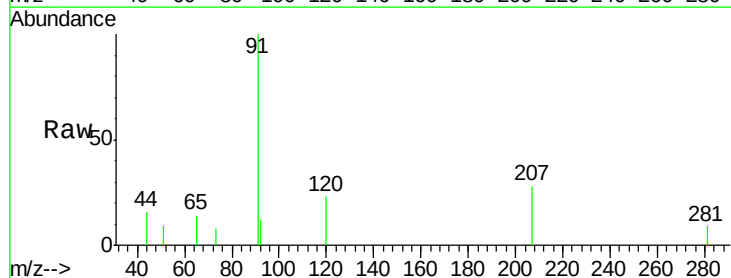
Delta R.T. 0.00 min

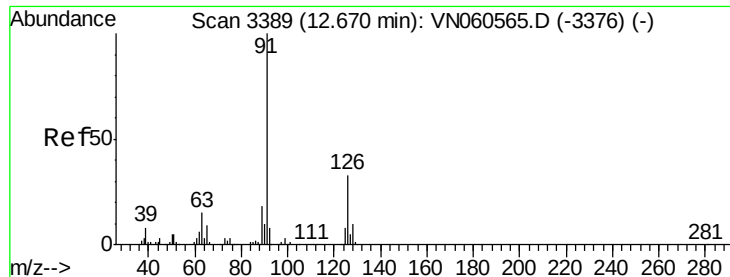
Lab File: VN060583.D

Acq: 18 Mar 2020 11:53

Tgt Ion: 91 Resp: 3461

Ion	Ratio	Lower	Upper
91	100		
120	19.0	11.3	33.8





#79

2-Chlorotoluene

Concen: 0.280 ug/l

RT: 12.67 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VN060583.D

Acq: 18 Mar 2020 11:53

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2020DL

Tot Ion: 91 Resp: 2006

Ion Ratio Lower Upper

91 100

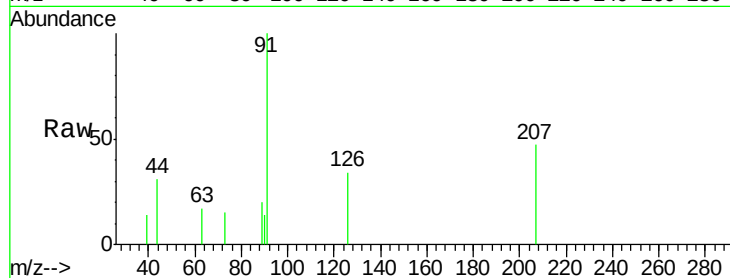
126 28.1 16.4 49.1

Manual Integrations

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3/19/2020 1:03:00 PM



Abundance Ion 91.00 (90.70 to 91.70): VN060583.D (-3376) (-)

Ion 125.90 (125.60 to 126.60): VN060583.D (-3376) (-)

12.67

12.67

12.67

12.67

12.67

12.67

12.67

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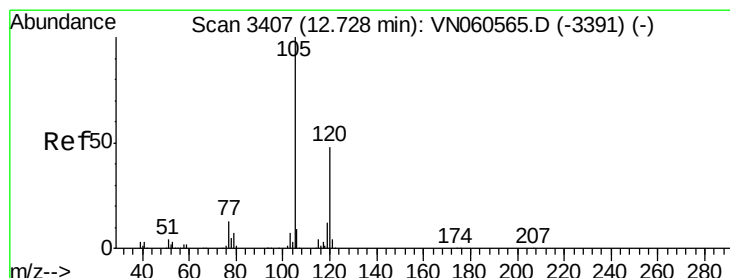
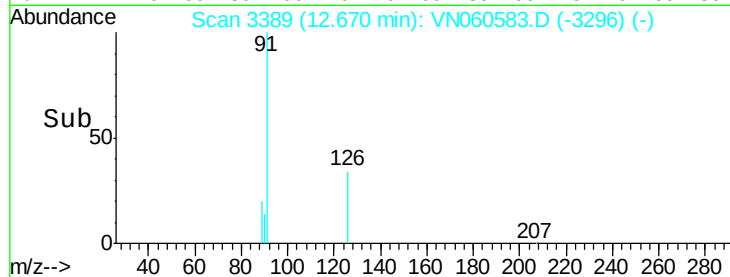
12.67

12.67

12.67

12.67

12.67



#80

1,3,5-Trimethylbenzene

Concen: 0.222 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN060583.D

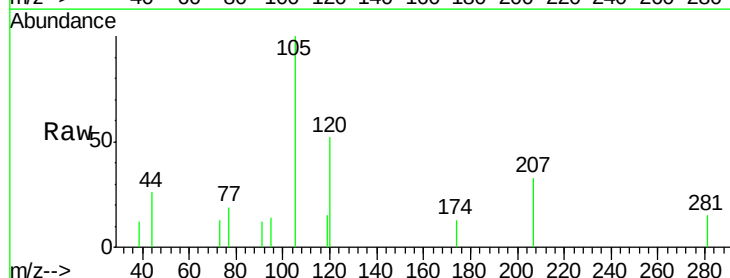
Acq: 18 Mar 2020 11:53

Tgt Ion:105 Resp: 1915

Ion Ratio Lower Upper

105 100

120 51.5 23.9 71.7



Abundance Ion 105.00 (104.70 to 105.70): VN060583.D (-3391) (-)

Ion 120.00 (119.70 to 120.70): VN060583.D (-3391) (-)

12.73

12.73

12.73

12.73

12.73

12.73

12.73

12.73

12.73

12.73

12.73

12.73

12.73

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12.73

12.73

12.73

12.73

12.73

12.73

12.73

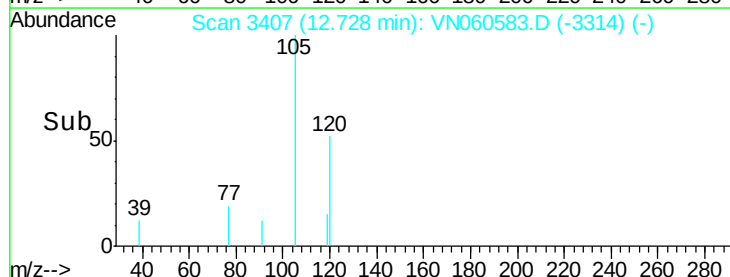
12.73

12.73

12.73

12.73

12.73



Abundance Ion 105.00 (104.70 to 105.70): VN060583.D (-3314) (-)

Ion 120.00 (119.70 to 120.70): VN060583.D (-3314) (-)

12.73

12.73

12.73

12.73

12.73

12.73

12.73

12.73

12.73

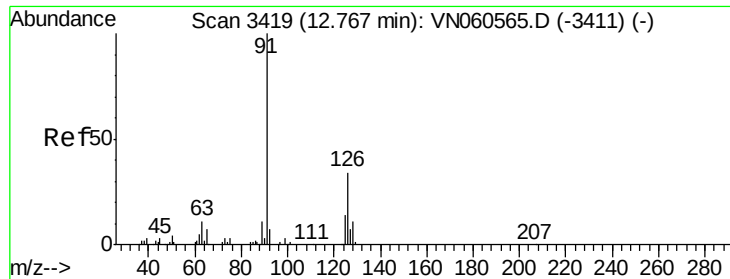
12.73

12.73

12.73

12.73

12.73



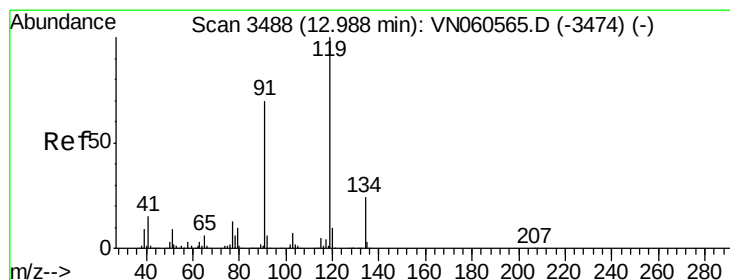
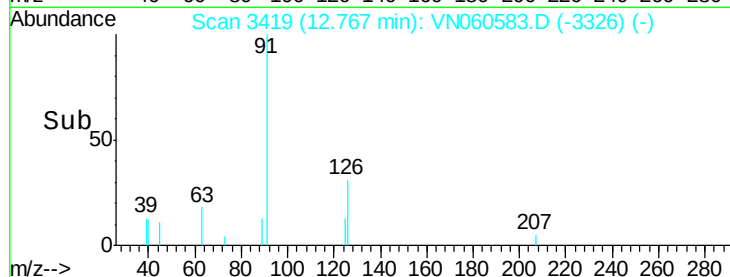
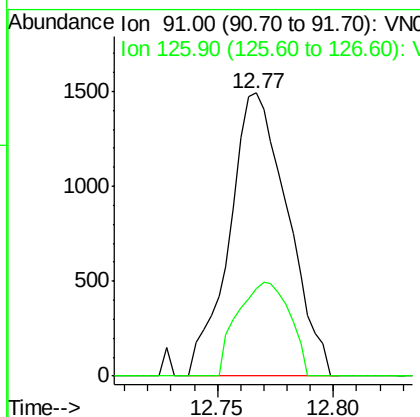
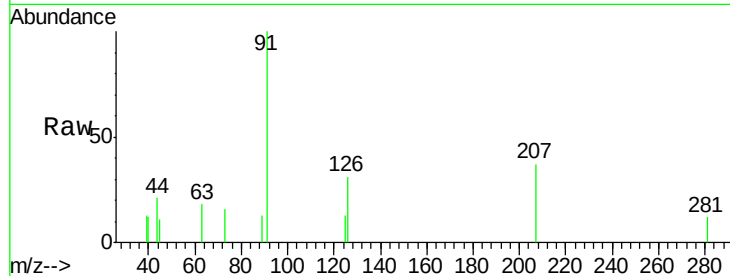
#82
4-Chlorotoluene
Concen: 0.356 ug/l
RT: 12.77 min Scan# 3419
Delta R.T. 0.00 min
Lab File: VN060583.D
Acq: 18 Mar 2020 11:53

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2020DL

Tot Ion: 91 Resp: 2598
Ion Ratio Lower Upper
91 100
126 29.8 16.2 48.5

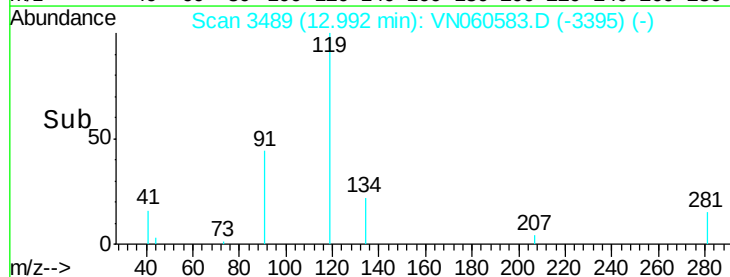
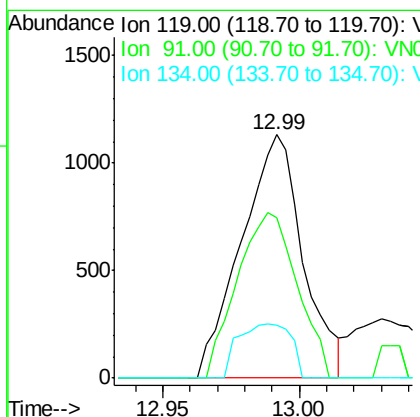
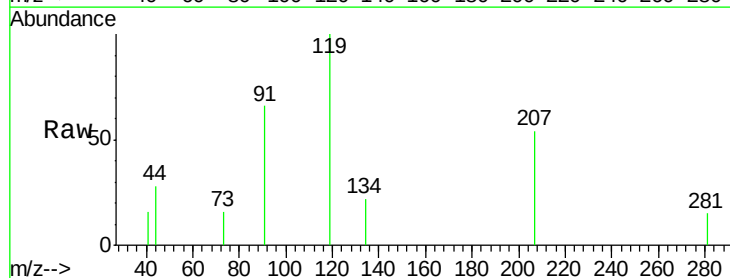
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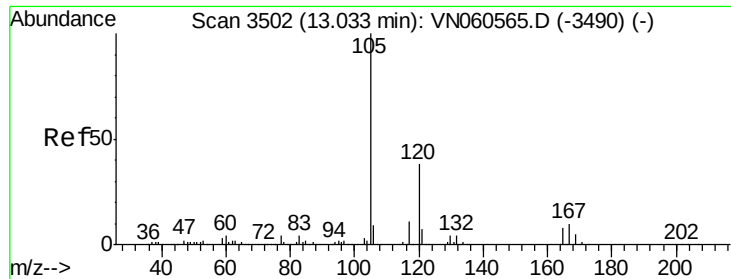
MMDadoda
3/19/2020 1:03:00 PM



#83
tert-Butylbenzene
Concen: 0.249 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN060583.D
Acq: 18 Mar 2020 11:53

Tgt Ion: 119 Resp: 1777
Ion Ratio Lower Upper
119 100
91 66.0 34.0 101.8
134 19.0 12.7 38.0





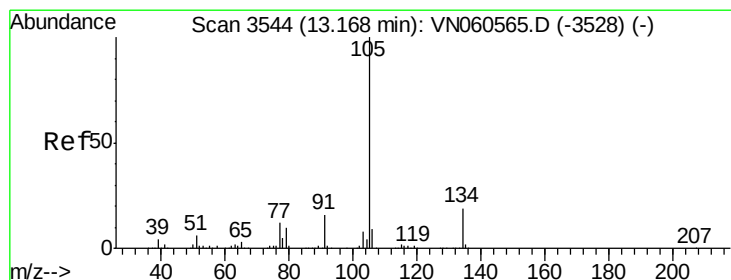
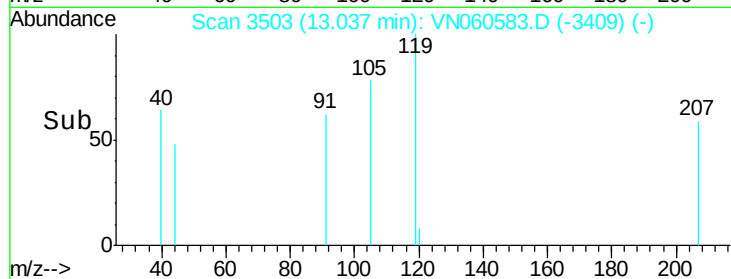
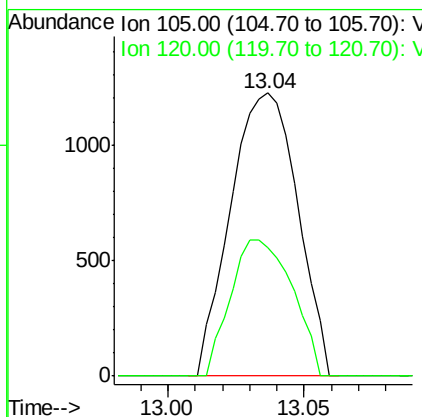
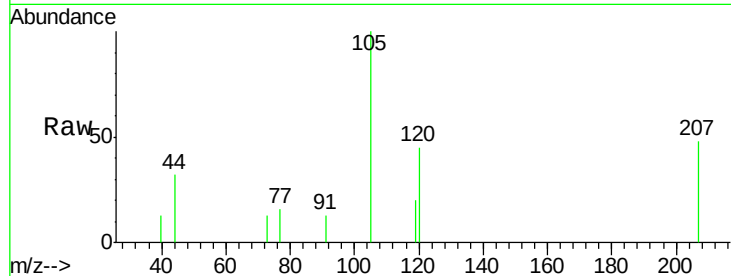
#84
 1,2,4-Trimethylbenzene
 Concen: 0.245 ug/l
 RT: 13.04 min Scan# 3503
 Delta R.T. 0.00 min
 Lab File: VN060583.D
 Acq: 18 Mar 2020 11:53

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
105	100		
120	44.4	22.1	66.5

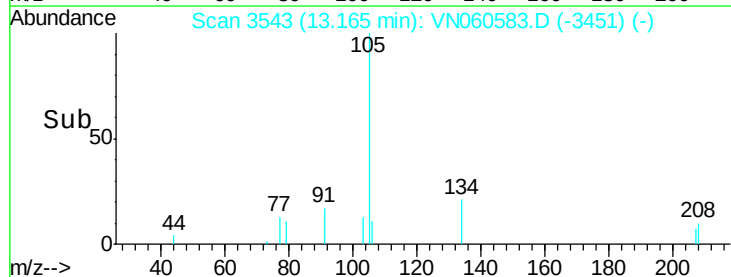
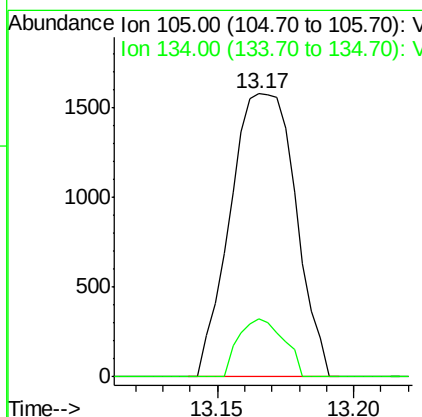
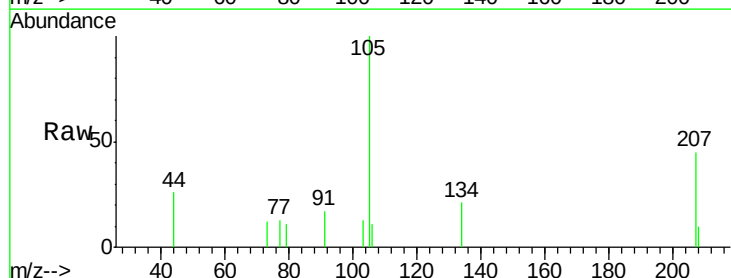
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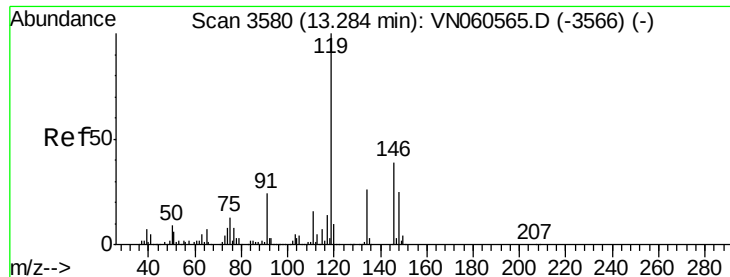
MMDadoda
 3/19/2020 1:03:00 PM



#85
 sec-Butylbenzene
 Concen: 0.273 ug/l
 RT: 13.17 min Scan# 3543
 Delta R.T. -0.00 min
 Lab File: VN060583.D
 Acq: 18 Mar 2020 11:53

Tgt Ion	Ratio	Lower	Upper
105	100		
134	14.2	9.6	28.8





#86

p-Isopropyltoluene

Concen: 0.290 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN060583.D

Acq: 18 Mar 2020 11:53

Instrument :

MSVOA_N

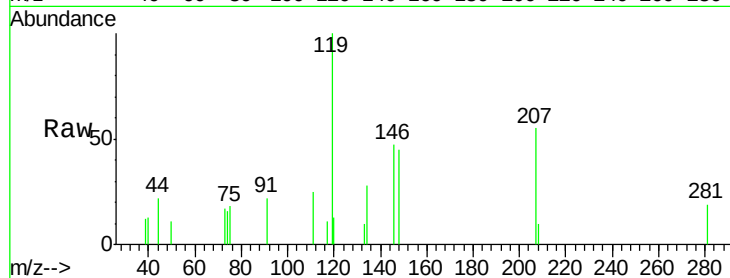
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020DL

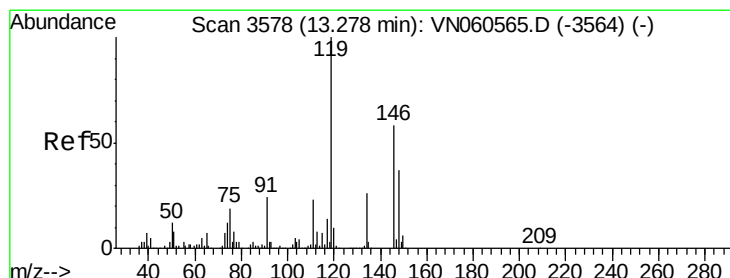
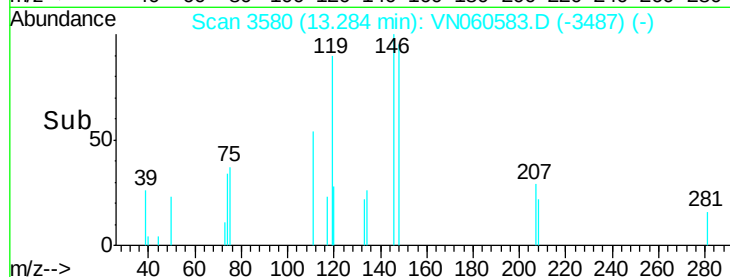
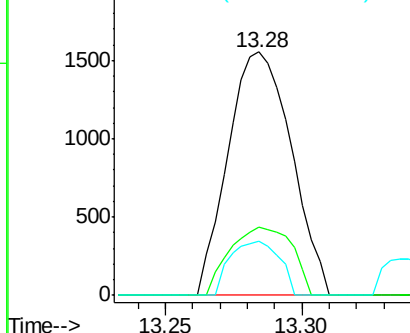
Tot Ion:	119	Resp:	2504
Ion Ratio	Lower	Upper	
119	100		
134	27.8	13.0	39.0
91	17.2	12.0	36.0

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Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): V



#87

1,3-Dichlorobenzene

Concen: 0.351 ug/l

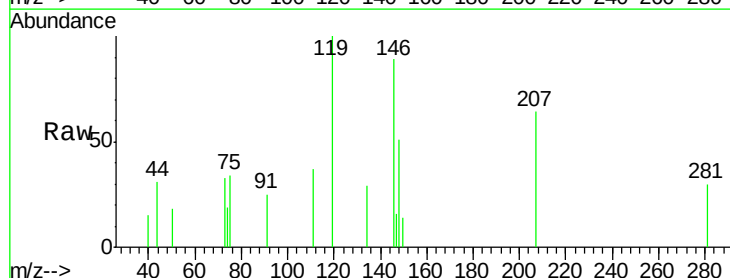
RT: 13.27 min Scan# 3577

Delta R.T. -0.00 min

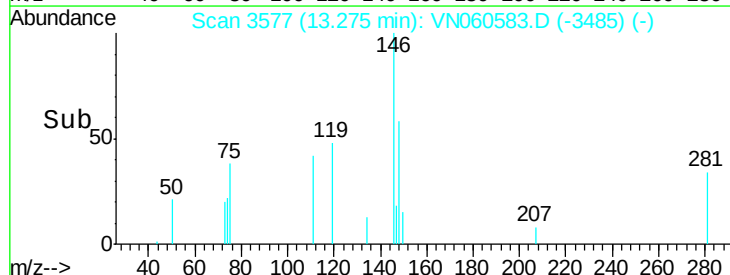
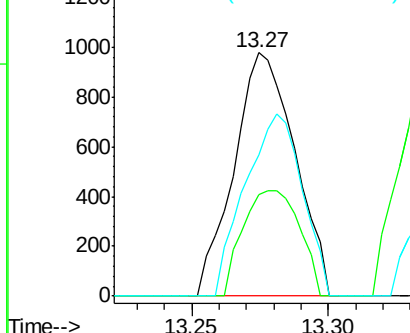
Lab File: VN060583.D

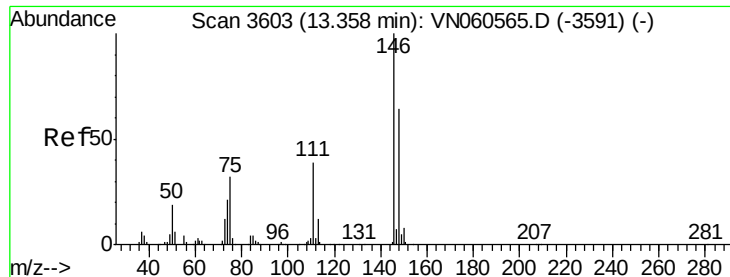
Acq: 18 Mar 2020 11:53

Tgt Ion:	146	Resp:	1514
Ion Ratio	Lower	Upper	
146	100		
111	40.6	20.3	60.8
148	70.5	32.5	97.4



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V





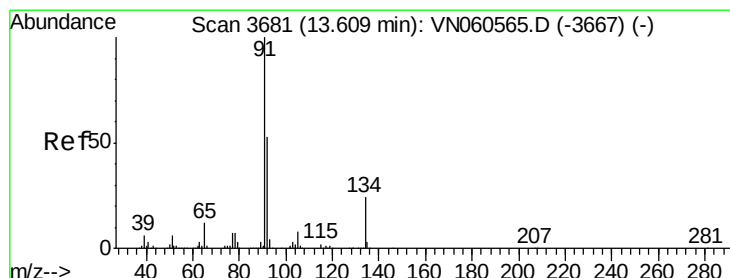
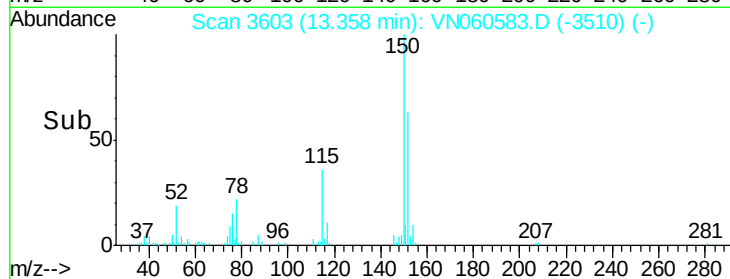
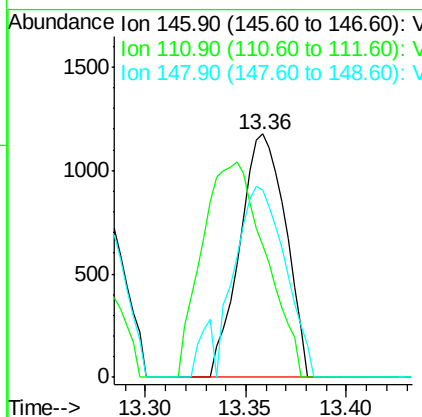
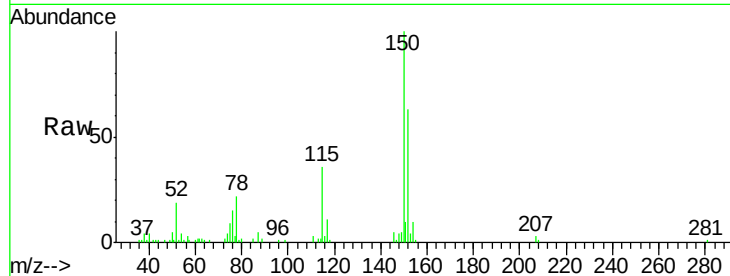
#88
 1,4-Dichlorobenzene
 Concen: 0.431 ug/l m
 RT: 13.36 min Scan# 3603
 Delta R.T. 0.00 min
 Lab File: VN060583.D
 Acq: 18 Mar 2020 11:53

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
146	100		
111	32.8	19.6	58.7
148	57.1	32.1	96.3

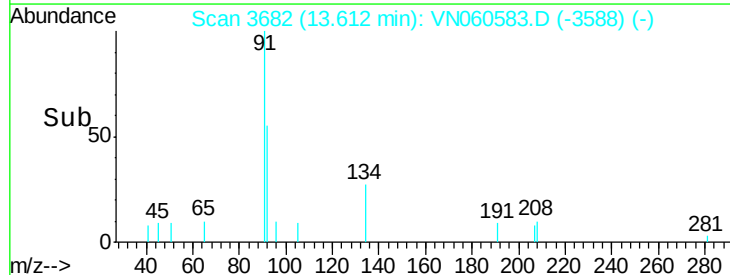
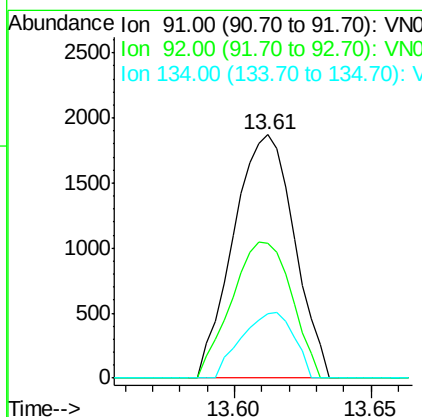
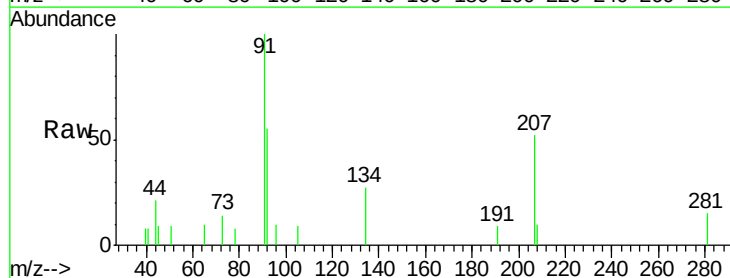
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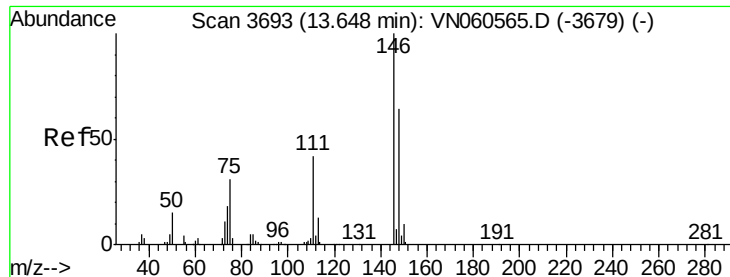
MMDadoda
 3/19/2020 1:03:00 PM



#89
 n-Butylbenzene
 Concen: 0.371 ug/l
 RT: 13.61 min Scan# 3682
 Delta R.T. 0.00 min
 Lab File: VN060583.D
 Acq: 18 Mar 2020 11:53

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.1	26.2	78.5
134	23.4	12.3	36.9





#91

1,2-Dichlorobenzene

Concen: 0.370 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. 0.00 min

Lab File: VN060583.D

Acq: 18 Mar 2020 11:53

Instrument :

MSVOA_N

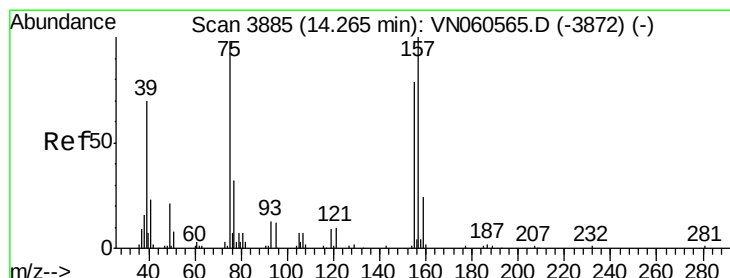
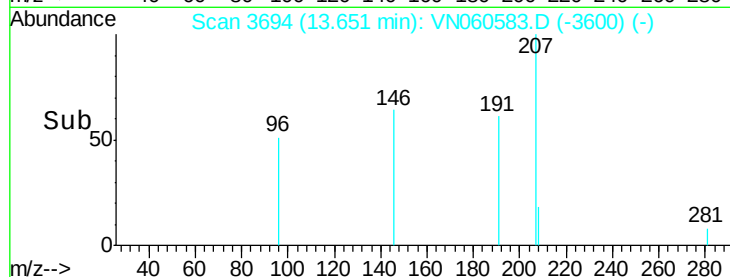
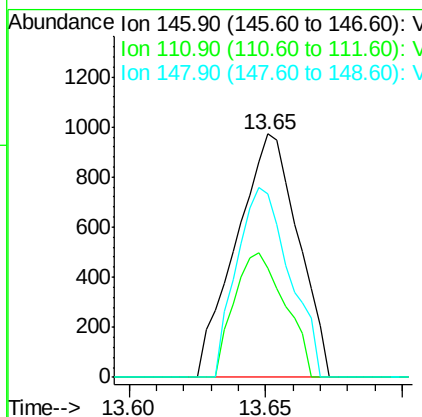
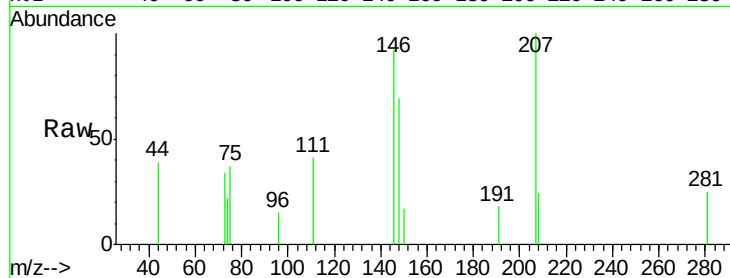
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020DL

Tot Ion:	146	Resp:	1526
Ion Ratio	Lower	Upper	
146	100		
111	42.3	21.0	63.0
148	66.8	31.9	95.5

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#92

1,2-Dibromo-3-Chloropropane

Concen: 0.380 ug/l

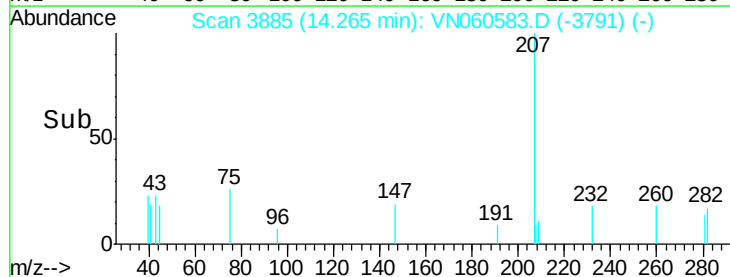
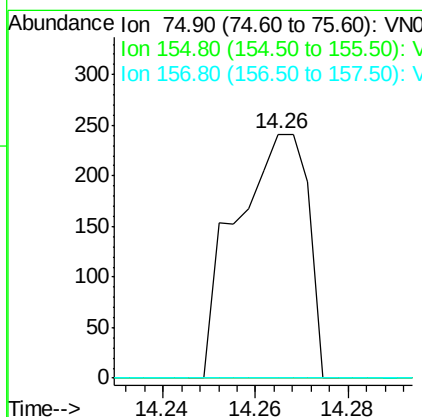
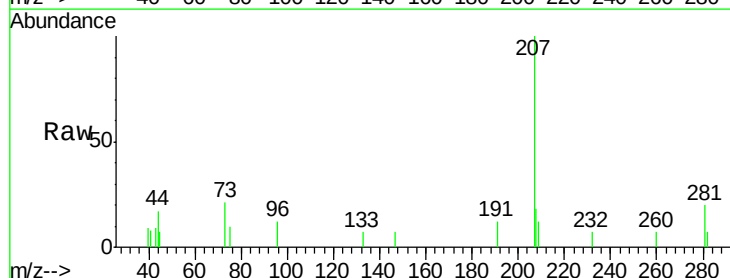
RT: 14.26 min Scan# 3885

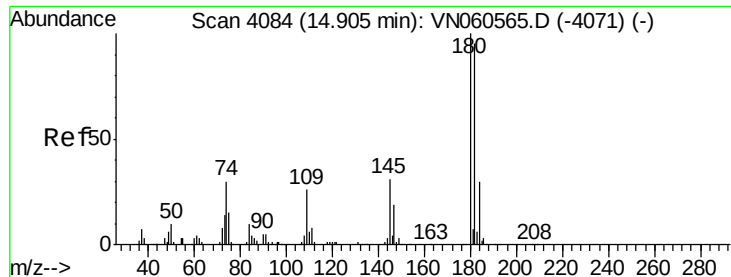
Delta R.T. 0.00 min

Lab File: VN060583.D

Acq: 18 Mar 2020 11:53

Tgt Ion:	75	Resp:	262
Ion Ratio	Lower	Upper	
75	100		
155	0.0	40.7	122.1#
157	0.0	51.5	154.7#





#93

1,2,4-Trichlorobenzene

Concen: 0.723 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN060583.D

Acq: 18 Mar 2020 11:53

Instrument :

MSVOA_N

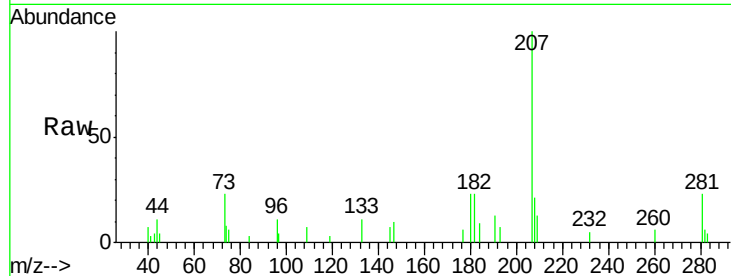
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020DL

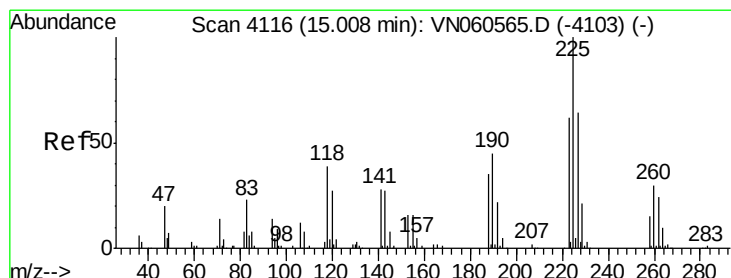
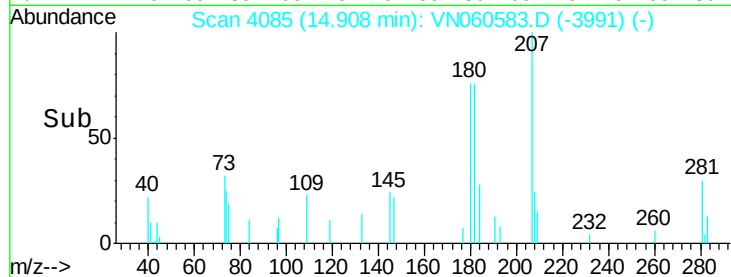
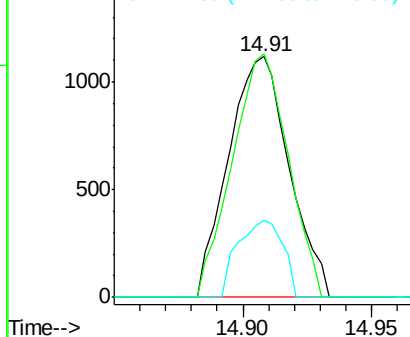
Tot Ion:	180	Resp:	1833
Ion Ratio	Lower	Upper	
180	100		
182	93.4	47.9	143.8
145	23.8	15.4	46.2

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Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V



#94

Hexachlorobutadiene

Concen: 0.875 ug/l

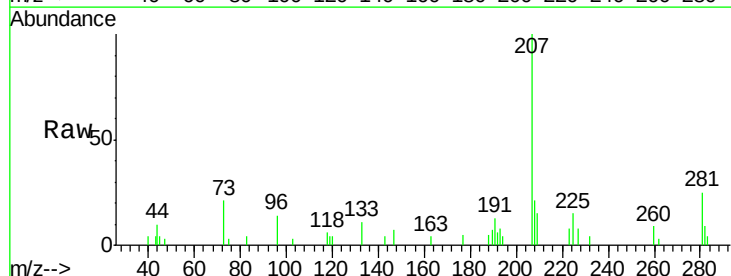
RT: 15.00 min Scan# 4115

Delta R.T. -0.00 min

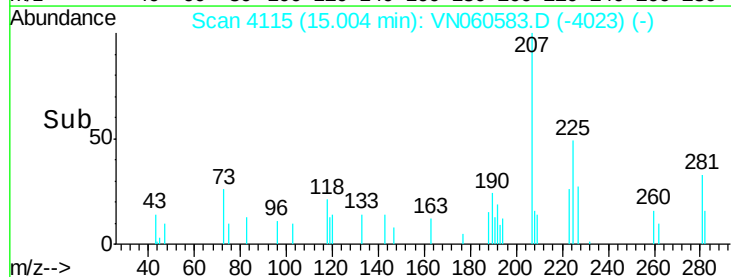
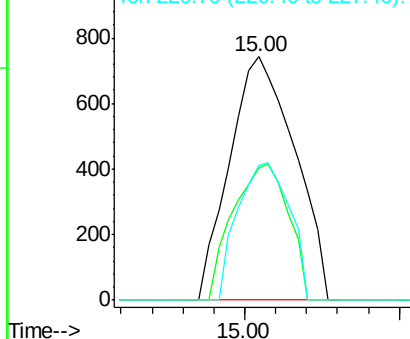
Lab File: VN060583.D

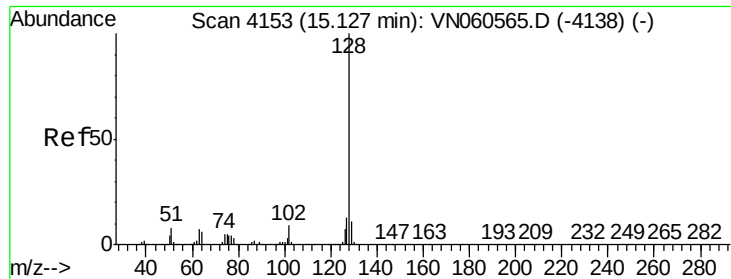
Acq: 18 Mar 2020 11:53

Tgt Ion:	225	Resp:	1088
Ion Ratio	Lower	Upper	
225	100		
223	47.7	31.6	95.0
227	44.8	32.3	96.8



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V





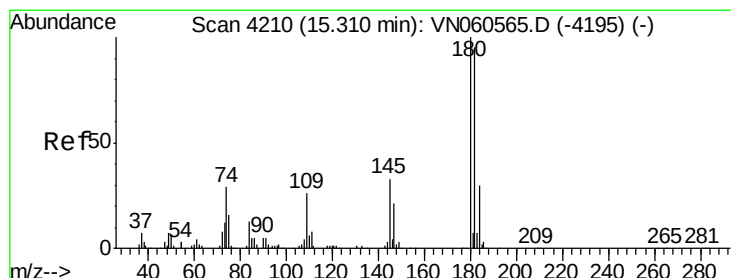
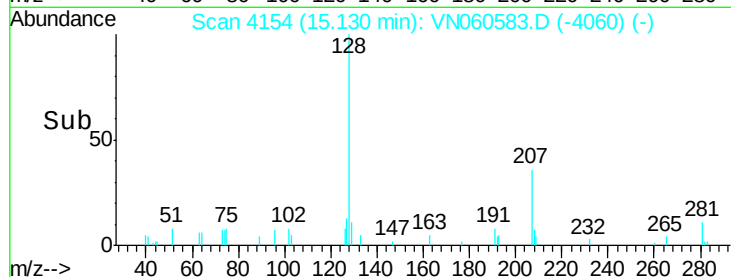
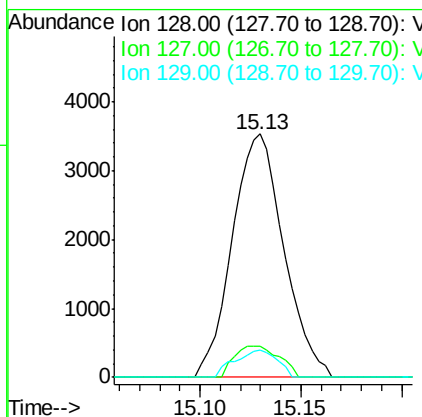
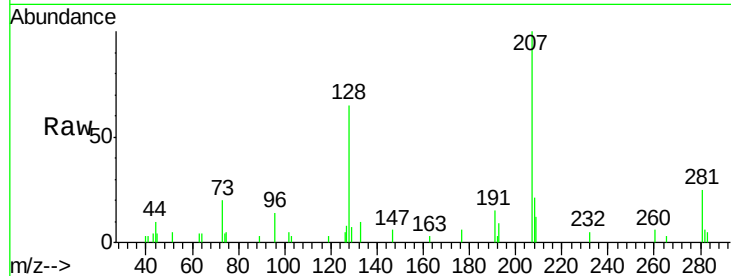
#95
Naphthalene
Concen: 0.828 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN060583.D
Acq: 18 Mar 2020 11:53

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2020DL

Tot Ion	Ratio	Resp	Lower	Upper
128	100	6317		
127	11.2		10.2	15.2
129	9.3		8.8	13.2

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 0.800 ug/l
RT: 15.31 min Scan# 4209
Delta R.T. -0.00 min
Lab File: VN060583.D
Acq: 18 Mar 2020 11:53

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	1997		
182	85.2		47.5	142.6
145	29.4		16.3	48.8

