

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030320\
 Data File : VN060322.D
 Acq On : 3 Mar 2020 12:26
 Operator : JC/MD
 Sample : L1161-07 .5PPB LOD
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

MMDadoda
 3/4/2020 10:44:16 AM

Quant Time: Mar 04 03:14:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 04 03:02:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	197455	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	327963	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	291098	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	129092	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	126140	49.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.58%	
35) Dibromofluoromethane	7.57	113	88261	57.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.96%	
50) Toluene-d8	10.08	98	358778	46.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.14%	
62) 4-Bromofluorobenzene	12.40	95	126475	43.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.60%	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.84	85	749	0.414	ug/l	84
3) Chloromethane	2.04	50	1994	0.633	ug/l	93
4) Vinyl Chloride	2.16	62	1287	0.476	ug/l	94
5) Bromomethane	2.55	94	530	0.446	ug/l #	71
6) Chloroethane	2.69	64	653	0.446	ug/l #	40
7) Trichlorofluoromethane	3.00	101	1425	0.413	ug/l	92
8) Diethyl Ether	3.39	74	440	0.337	ug/l	82
9) 1,1,2-Trichlorotrifluoroet	3.74	101	699m	0.358	ug/l	
10) Methyl Iodide	3.93	142	844	0.473	ug/l #	56
11) Tert butyl alcohol	4.74	59	636	1.691	ug/l #	73
12) 1,1-Dichloroethene	3.71	96	1113	0.536	ug/l #	62
13) Acrolein	3.59	56	143	0.407	ug/l	92
14) Allyl chloride	4.30	41	1880	0.537	ug/l #	85
15) Acrylonitrile	4.95	53	1653	1.667	ug/l #	73
16) Acetone	3.79	43	2332	2.850	ug/l	93
17) Carbon Disulfide	4.03	76	3014	0.512	ug/l #	75
18) Methyl Acetate	4.30	43	1362m	0.499	ug/l	
19) Methyl tert-butyl Ether	5.01	73	3832	0.556	ug/l #	91
20) Methylene Chloride	4.52	84	1031	0.459	ug/l	93
21) trans-1,2-Dichloroethene	5.02	96	1068	0.454	ug/l #	72
22) Diisopropyl ether	5.92	45	3129	0.442	ug/l #	86
23) Vinyl Acetate	5.87	43	11547	2.051	ug/l	96
24) 1,1-Dichloroethane	5.82	63	1677	0.418	ug/l #	84
25) 2-Butanone	6.81	43	3095	2.342	ug/l	93
26) 2,2-Dichloropropane	6.80	77	1678	0.460	ug/l #	61
27) cis-1,2-Dichloroethene	6.80	96	1295	0.497	ug/l	76
28) Bromochloromethane	7.17	49	757	0.460	ug/l #	69
29) Tetrahydrofuran	7.19	42	2118	2.305	ug/l #	68
30) Chloroform	7.35	83	1980	0.496	ug/l	85
31) Cyclohexane	7.64	56	5958	1.602	ug/l #	29
32) 1,1,1-Trichloroethane	7.54	97	1444	0.408	ug/l #	46
36) 1,1-Dichloropropene	7.77	75	1397	0.447	ug/l #	77
37) Ethyl Acetate	6.91	43	1589m	0.537	ug/l	
38) Carbon Tetrachloride	7.74	117	1399	0.460	ug/l #	72

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	9.07	83	1378	0.374	ug/l #	91
40) Benzene	8.02	78	4174	0.459	ug/l	99
41) Methacrylonitrile	7.14	41	733m	0.536	ug/l	
42) 1,2-Dichloroethane	8.11	62	1653	0.504	ug/l #	76
43) Isopropyl Acetate	8.14	43	2304	0.445	ug/l #	74
44) Trichloroethene	8.82	130	1194	0.471	ug/l	78
45) 1,2-Dichloropropane	9.11	63	962	0.404	ug/l #	44
46) Dibromomethane	9.20	93	516m	0.334	ug/l	
47) Bromodichloromethane	9.39	83	1290	0.411	ug/l #	93
48) Methyl methacrylate	9.18	41	949	0.402	ug/l	86
49) 1,4-Dioxane	9.18	88	100	3.010	ug/l #	22
51) 4-Methyl-2-Pentanone	9.97	43	6338	2.157	ug/l	97
52) Toluene	10.14	92	2516	0.440	ug/l	94
53) t-1,3-Dichloropropene	10.37	75	1649	0.429	ug/l #	77
54) cis-1,3-Dichloropropene	9.82	75	1899	0.476	ug/l	91
55) 1,1,2-Trichloroethane	10.55	97	1094	0.476	ug/l	97
56) Ethyl methacrylate	10.42	69	1189	0.360	ug/l #	64
57) 1,3-Dichloropropane	10.70	76	1615	0.431	ug/l	94
58) 2-Chloroethyl Vinyl ether	9.68	63	3505	2.030	ug/l	93
59) 2-Hexanone	10.74	43	4391	2.036	ug/l	95
60) Dibromochloromethane	10.89	129	920	0.394	ug/l	82
61) 1,2-Dibromoethane	11.00	107	859	0.383	ug/l	97
64) Tetrachloroethene	10.63	164	1353	0.523	ug/l	92
65) Chlorobenzene	11.43	112	2631	0.448	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.50	131	825	0.380	ug/l #	62
67) Ethyl Benzene	11.51	91	4778	0.446	ug/l	94
68) m/p-Xylenes	11.62	106	3396	0.841	ug/l	97
69) o-Xylene	11.94	106	1605	0.417	ug/l	100
70) Styrene	11.96	104	2535	0.400	ug/l	94
71) Bromoform	12.12	173	486	0.310	ug/l #	29
73) Isopropylbenzene	12.25	105	4431	0.463	ug/l	99
74) N-amyl acetate	12.06	43	2012	0.481	ug/l #	87
75) 1,1,2,2-Tetrachloroethane	12.50	83	1183	0.455	ug/l #	93
76) 1,2,3-Trichloropropane	12.55	75	1501m	0.530	ug/l	
77) Bromobenzene	12.52	156	948	0.404	ug/l	60
78) n-propylbenzene	12.59	91	5214	0.465	ug/l	97
79) 2-Chlorotoluene	12.67	91	3240	0.491	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	3669	0.455	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.29	75	427m	0.416	ug/l	
82) 4-Chlorotoluene	12.77	91	3401	0.490	ug/l	96
83) tert-Butylbenzene	12.99	119	3372	0.483	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	3649	0.449	ug/l	97
85) sec-Butylbenzene	13.17	105	4137	0.443	ug/l	99
86) p-Isopropyltoluene	13.29	119	3930	0.455	ug/l	94
87) 1,3-Dichlorobenzene	13.28	146	2031	0.461	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	2255m	0.515	ug/l	
89) n-Butylbenzene	13.61	91	3644	0.459	ug/l	94
90) Hexachloroethane	13.87	117	362	0.289	ug/l #	38
91) 1,2-Dichlorobenzene	13.65	146	1949	0.474	ug/l	93
92) 1,2-Dibromo-3-Chloropropan	14.26	75	657m	1.115	ug/l	

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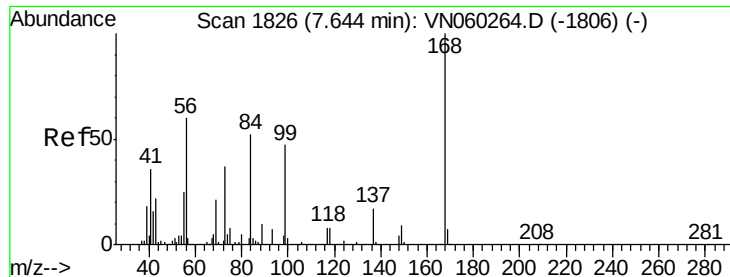
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	1519	0.521	ug/l	82
94) Hexachlorobutadiene	15.01	225	567	0.410	ug/l	96
95) Naphthalene	15.13	128	4097	0.487	ug/l #	93
96) 1,2,3-Trichlorobenzene	15.31	180	1473	0.537	ug/l	86

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion:168 Resp: 197455

Ion Ratio Lower Upper

168 100

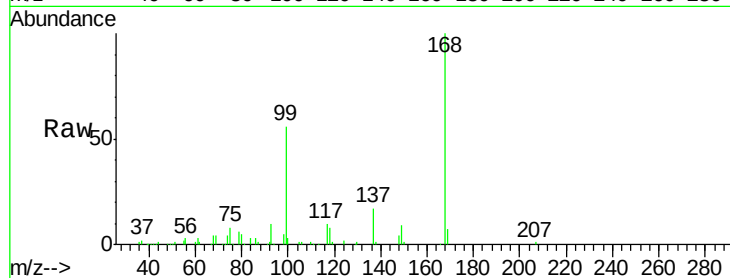
99 56.4 44.7 67.1

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

80000

60000

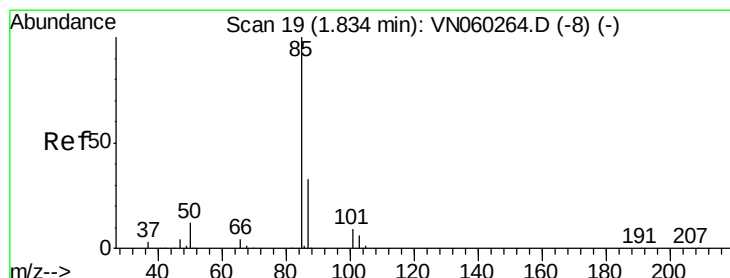
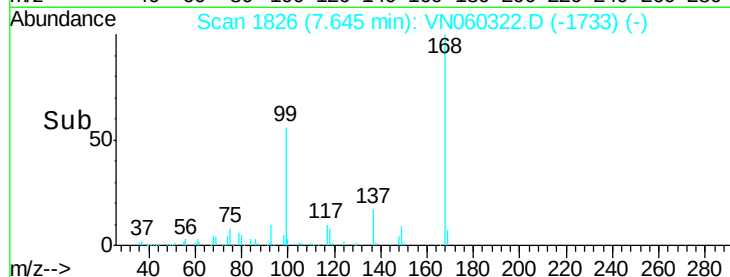
40000

20000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 0.414 ug/l

RT: 1.84 min Scan# 20

Delta R.T. 0.00 min

Lab File: VN060322.D

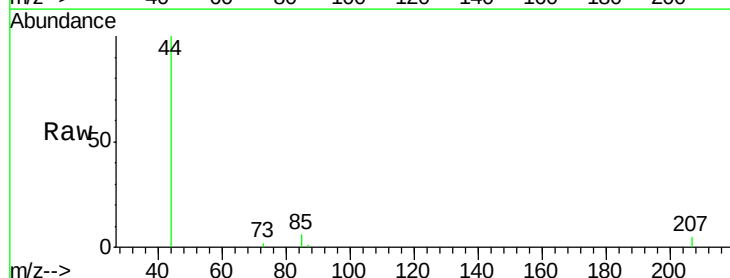
Acq: 3 Mar 2020 12:26

Tgt Ion: 85 Resp: 749

Ion Ratio Lower Upper

85 100

87 23.8 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.84

600

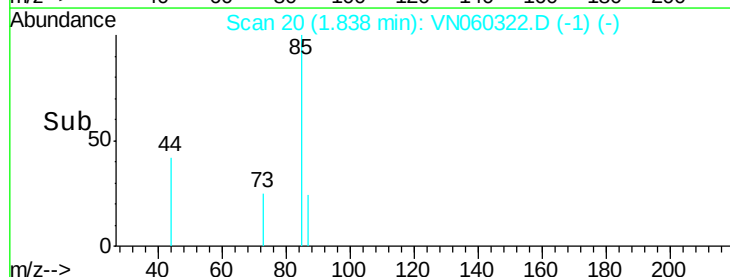
400

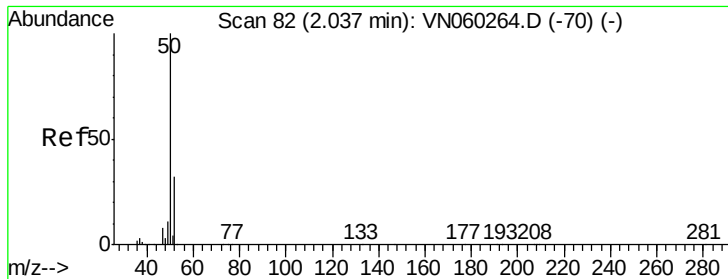
200

0

1.80 1.82 1.84 1.86

Time-->





#3

Chloromethane

Concen: 0.633 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion: 50 Resp: 1994

Ion Ratio Lower Upper

50 100

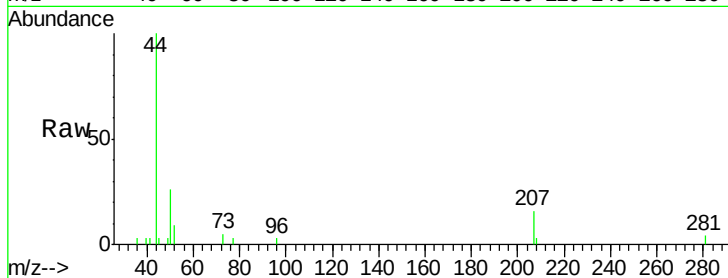
52 35.7 25.6 38.4

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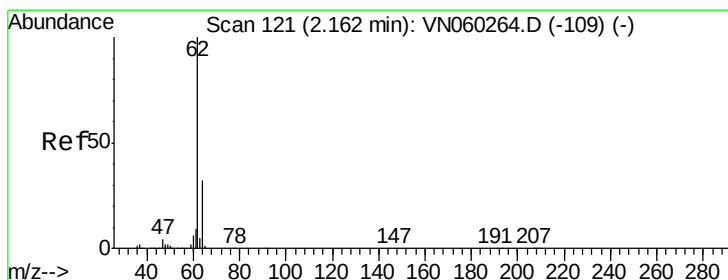
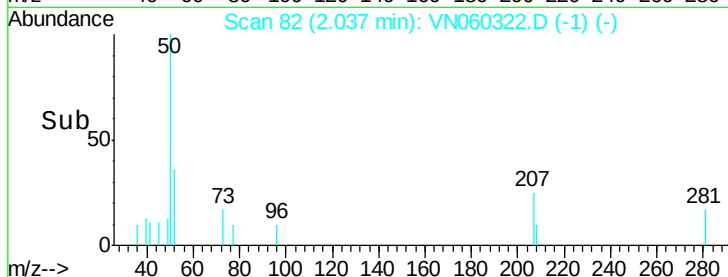
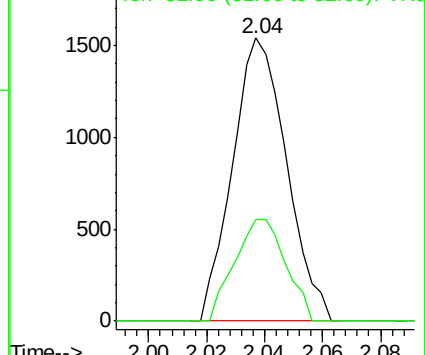
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Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



#4

Vinyl Chloride

Concen: 0.476 ug/l

RT: 2.16 min Scan# 121

Delta R.T. 0.00 min

Lab File: VN060322.D

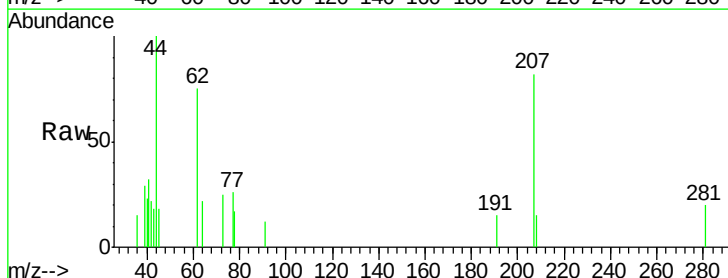
Acq: 3 Mar 2020 12:26

Tgt Ion: 62 Resp: 1287

Ion Ratio Lower Upper

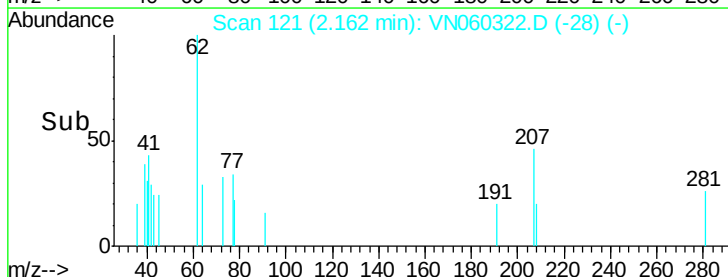
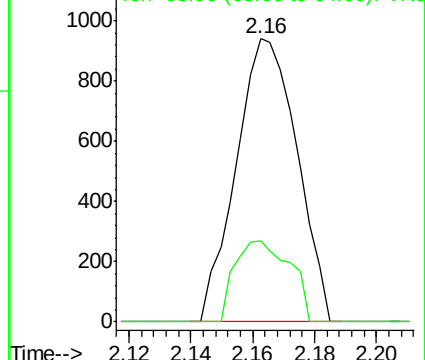
62 100

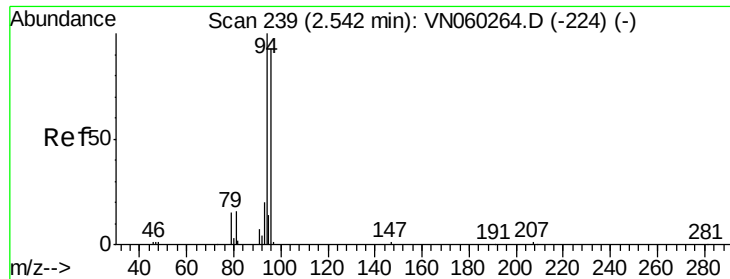
64 28.8 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0





#5

Bromomethane

Concen: 0.446 ug/l

RT: 2.55 min Scan# 242

Delta R.T. 0.01 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

Instrument :

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ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion: 94 Resp: 530

Ion Ratio Lower Upper

94 100

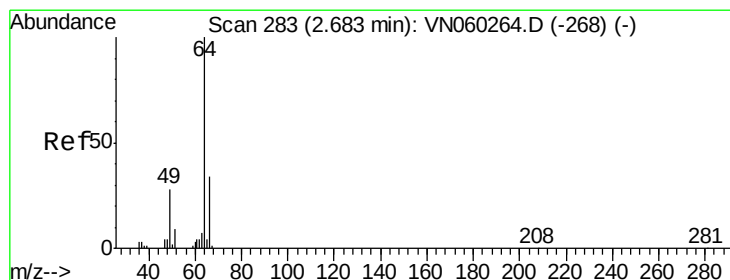
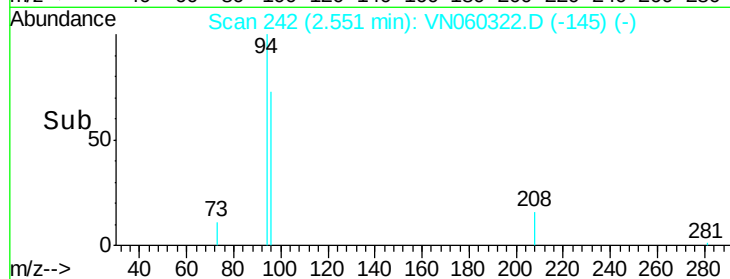
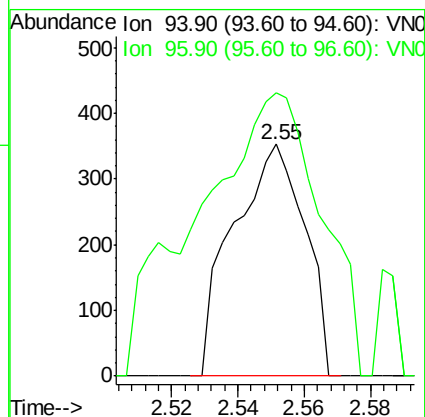
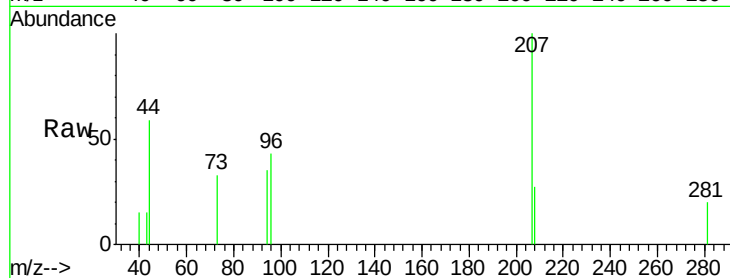
96 65.2 74.3 111.5#

Manual Integrations

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#6

Chloroethane

Concen: 0.446 ug/l

RT: 2.69 min Scan# 284

Delta R.T. 0.00 min

Lab File: VN060322.D

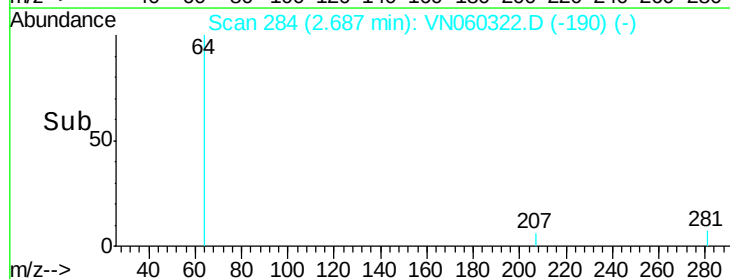
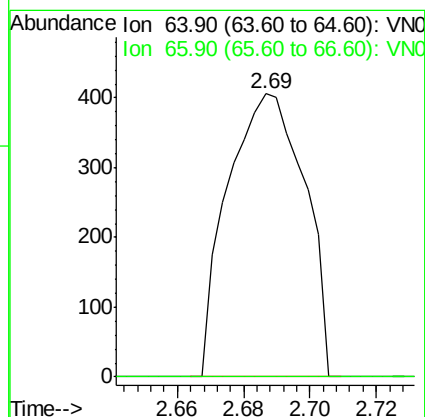
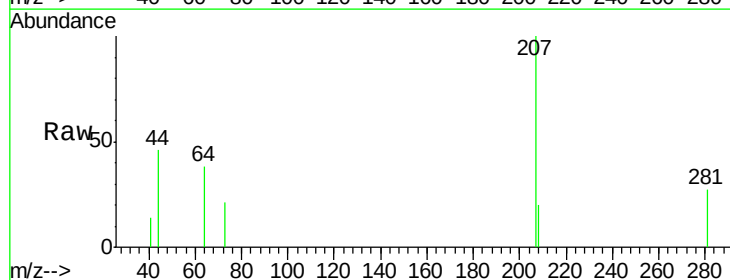
Acq: 3 Mar 2020 12:26

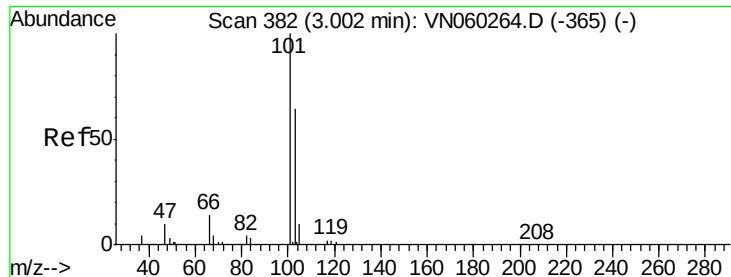
Tgt Ion: 64 Resp: 653

Ion Ratio Lower Upper

64 100

66 0.0 27.4 41.2#





#7

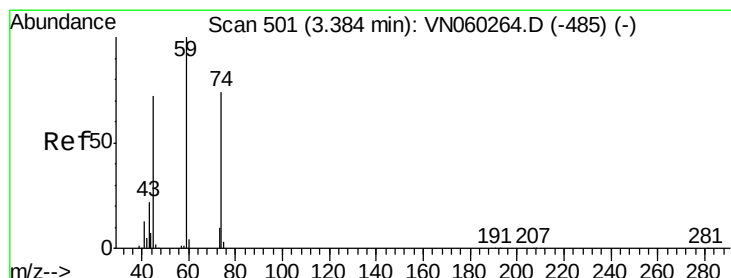
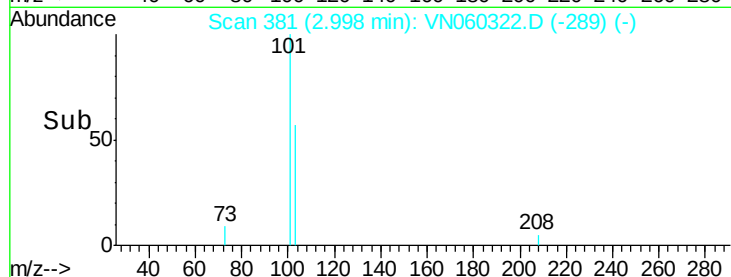
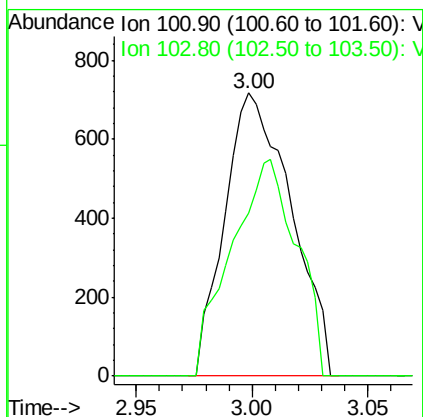
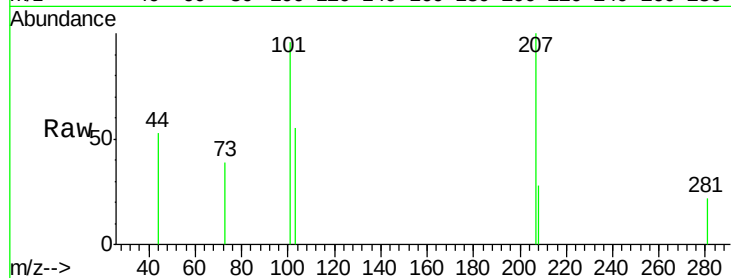
Trichlorofluoromethane
Concen: 0.413 ug/l
RT: 3.00 min Scan# 381
Delta R.T. -0.00 min
Lab File: VN060322.D
Acq: 3 Mar 2020 12:26

Instrument :
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Tot Ion:101 Resp: 1425
Ion Ratio Lower Upper
101 100
103 57.5 51.3 76.9

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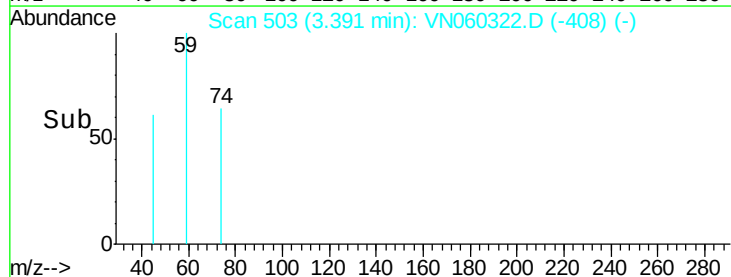
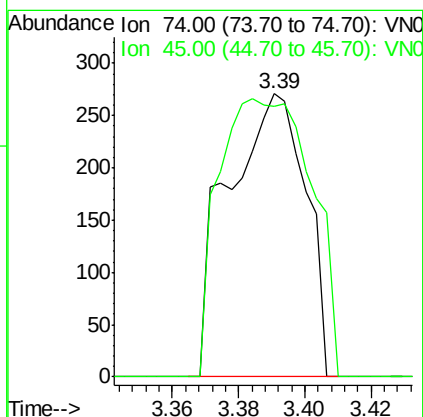
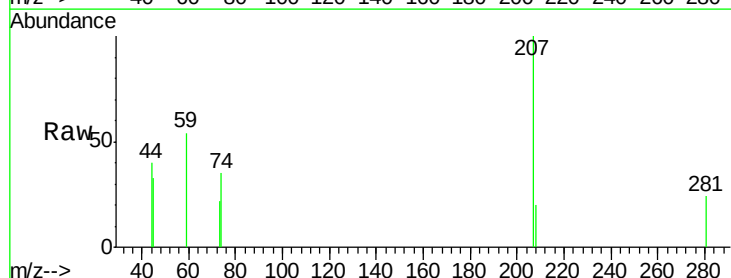
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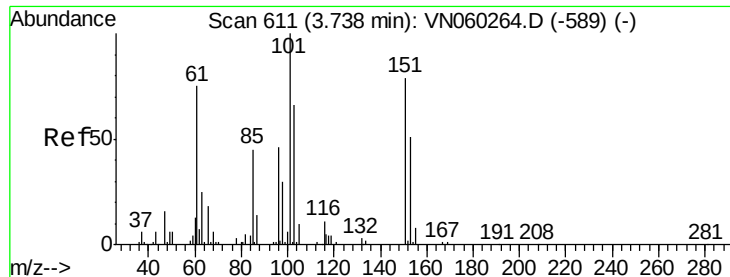


#8

Diethyl Ether
Concen: 0.337 ug/l
RT: 3.39 min Scan# 503
Delta R.T. 0.01 min
Lab File: VN060322.D
Acq: 3 Mar 2020 12:26

Tgt Ion: 74 Resp: 440
Ion Ratio Lower Upper
74 100
45 117.5 49.5 148.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.358 ug/l m

RT: 3.74 min Scan# 611

Delta R.T. 0.00 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

Instrument :

MSVOA_N

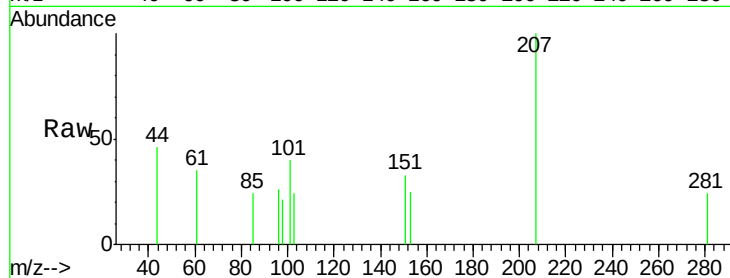
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

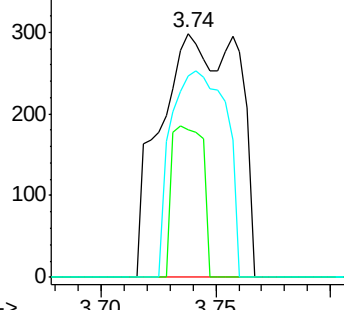
Tot Ion:	101	Resp:	699
Ion Ratio	Lower	Upper	
101	100		
85	24.6	35.4	53.2#
151	60.2	62.0	93.0#

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APPROVED

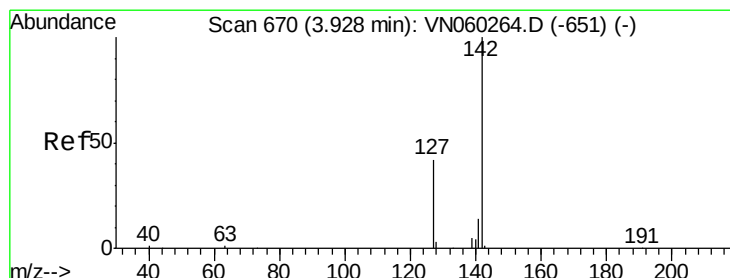
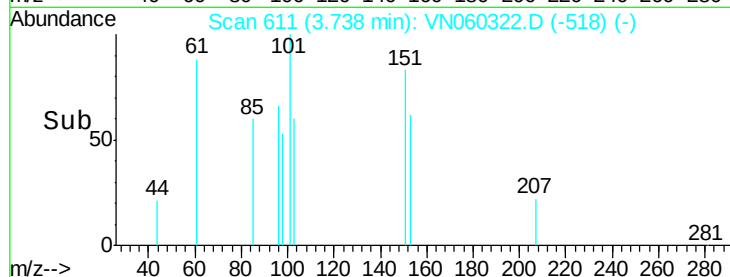
MMDadoda
3/4/2020 10:44:16 AM



Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V



Time-->



#10

Methyl Iodide

Concen: 0.473 ug/l

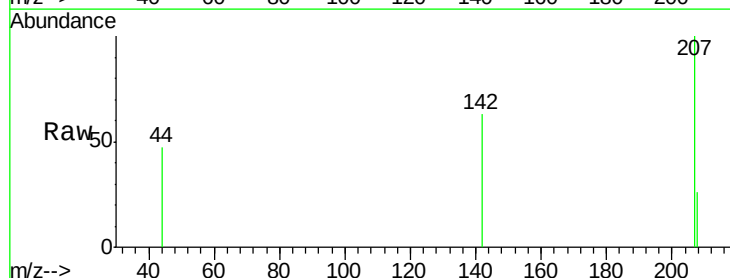
RT: 3.93 min Scan# 671

Delta R.T. 0.00 min

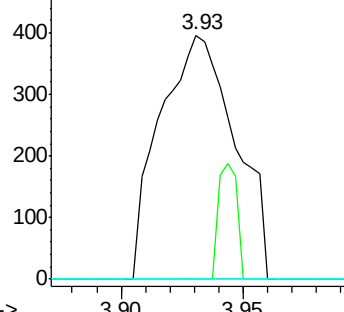
Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

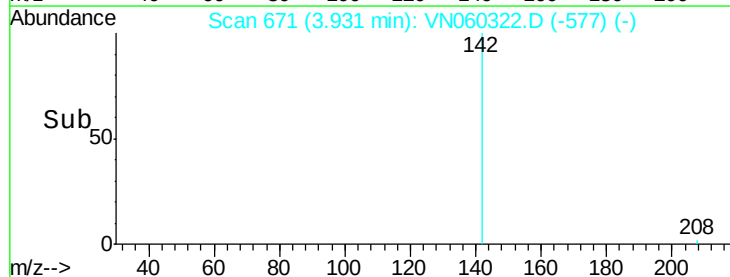
Tgt Ion:	142	Resp:	844
Ion Ratio	Lower	Upper	
142	100		
127	12.0	33.8	50.6#
141	0.0	11.1	16.7#

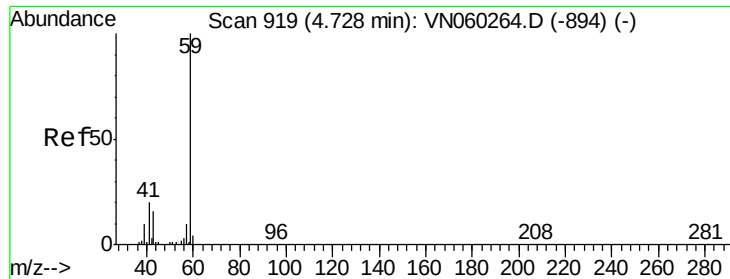


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V



Time-->





#11

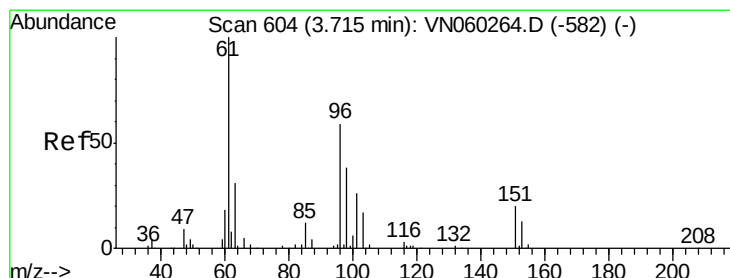
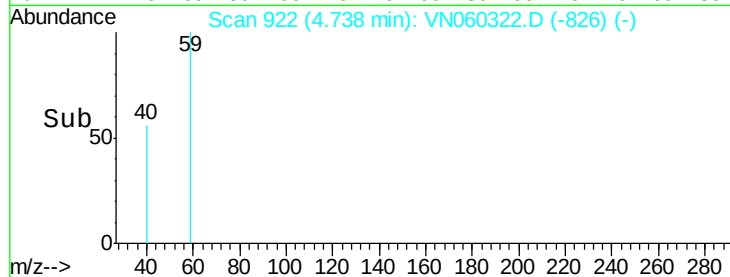
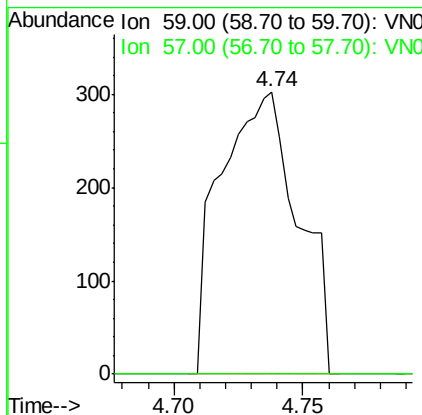
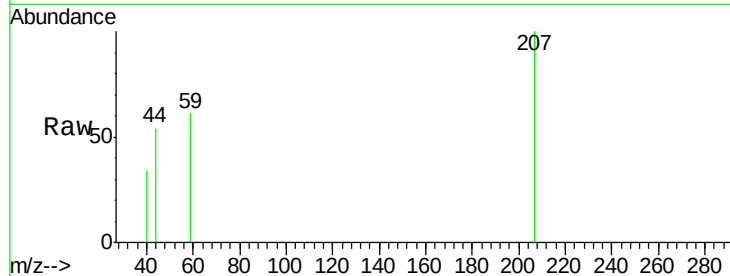
Tert butyl alcohol
 Concen: 1.691 ug/l
 RT: 4.74 min Scan# 922
 Delta R.T. 0.01 min
 Lab File: VN060322.D
 Acq: 3 Mar 2020 12:26

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

Tot Ion: 59 Resp: 636
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.2#

Manual Integrations
 APPROVED

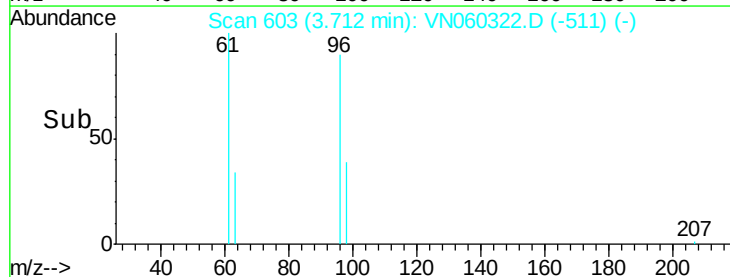
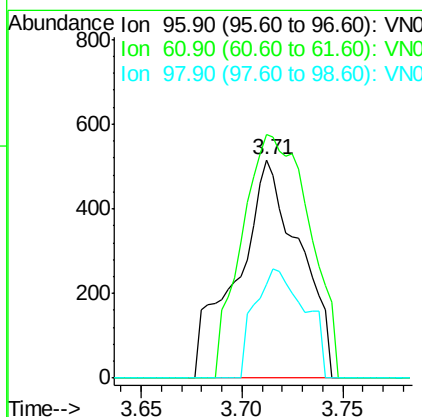
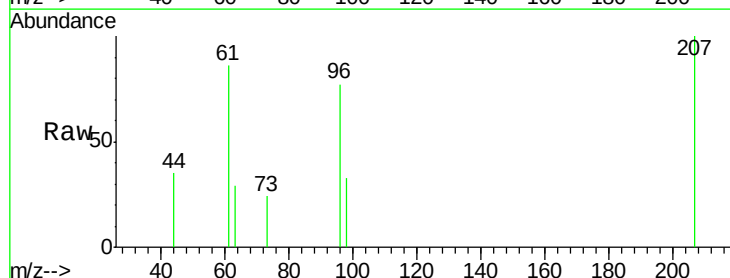
MMDadoda
 3/4/2020 10:44:16 AM

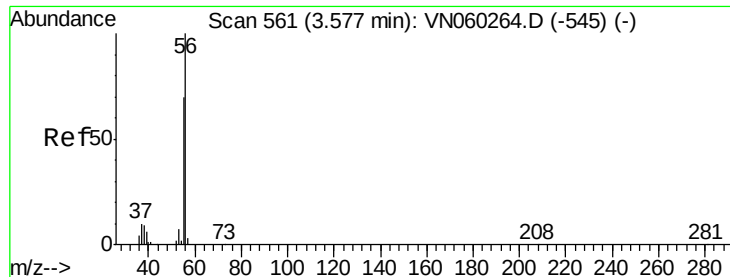


#12

1,1-Dichloroethene
 Concen: 0.536 ug/l
 RT: 3.71 min Scan# 603
 Delta R.T. -0.00 min
 Lab File: VN060322.D
 Acq: 3 Mar 2020 12:26

Tgt Ion: 96 Resp: 1113
 Ion Ratio Lower Upper
 96 100
 61 111.7 135.4 203.0#
 98 43.3 51.6 77.4#





#13

Acrolein

Concen: 0.407 ug/l

RT: 3.59 min Scan# 565

Delta R.T. 0.01 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion: 56 Resp: 143

Ion Ratio Lower Upper

56 100

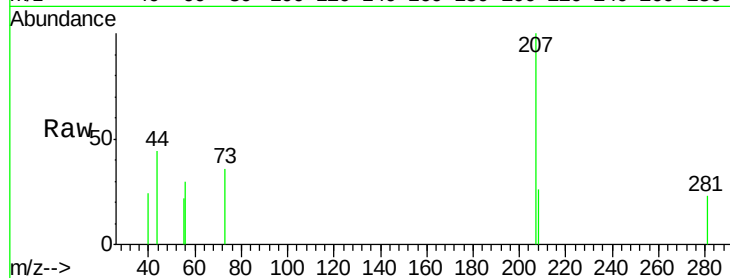
55 65.0 57.4 86.0

Manual Integrations

APPROVED

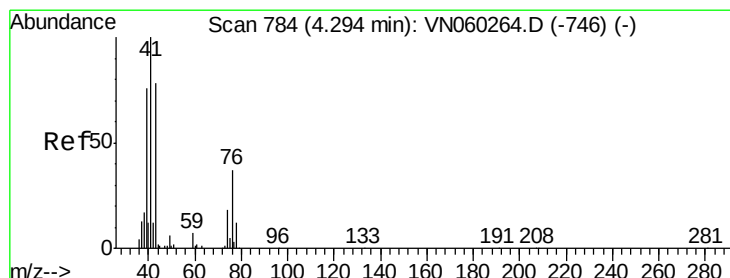
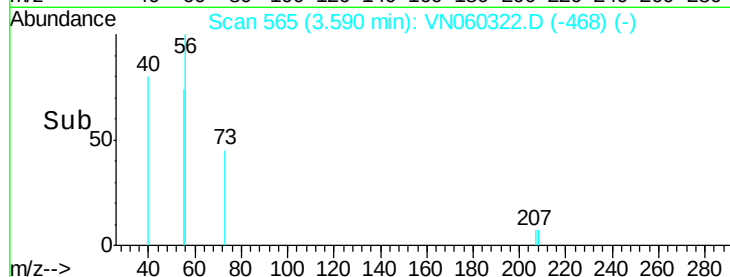
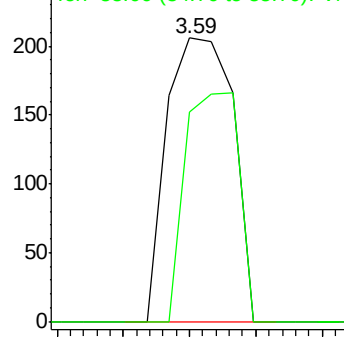
MMDadoda

3/4/2020 10:44:16 AM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 0.537 ug/l

RT: 4.30 min Scan# 785

Delta R.T. 0.00 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

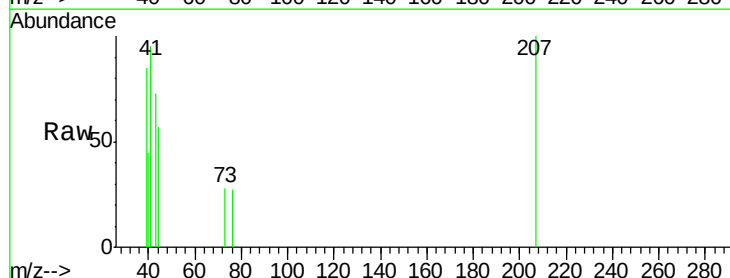
Tgt Ion: 41 Resp: 1880

Ion Ratio Lower Upper

41 100

39 69.8 55.4 83.2

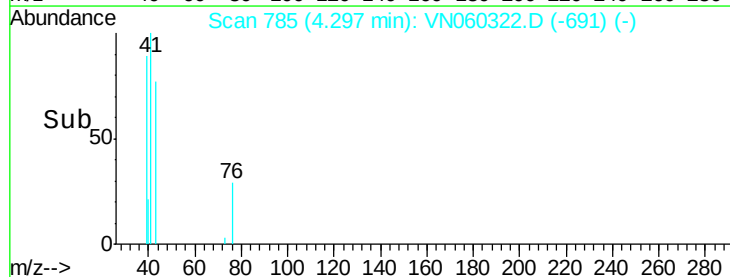
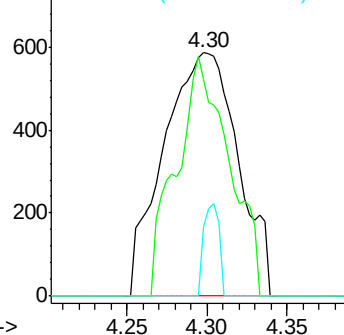
76 8.0 27.0 40.6#

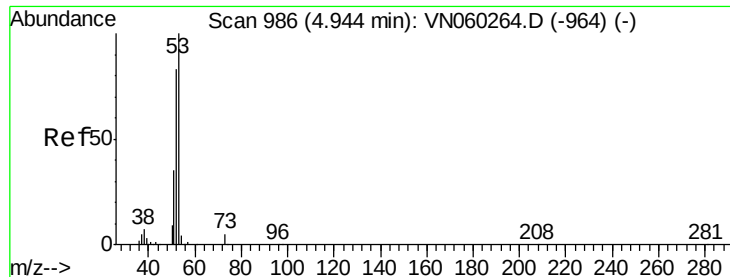


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 1.667 ug/l

RT: 4.95 min Scan# 989

Delta R.T. 0.01 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

Instrument :

MSVOA_N

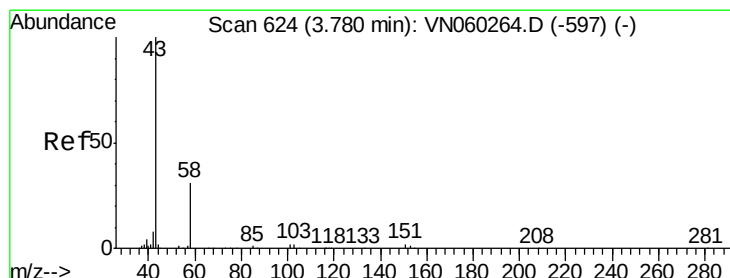
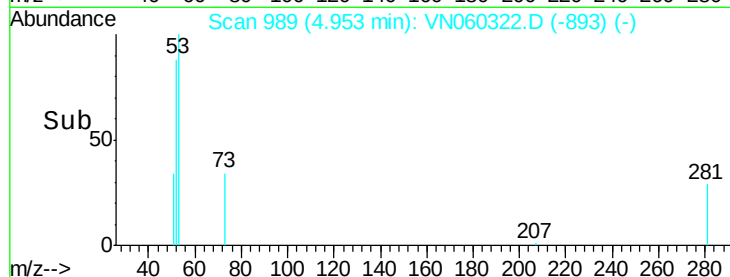
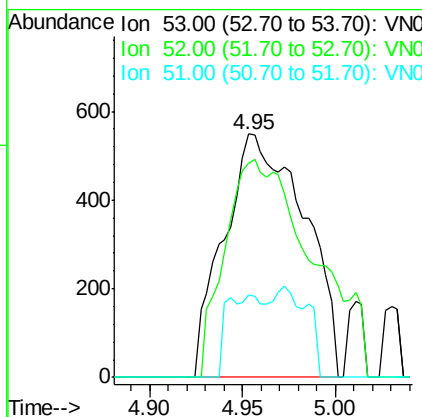
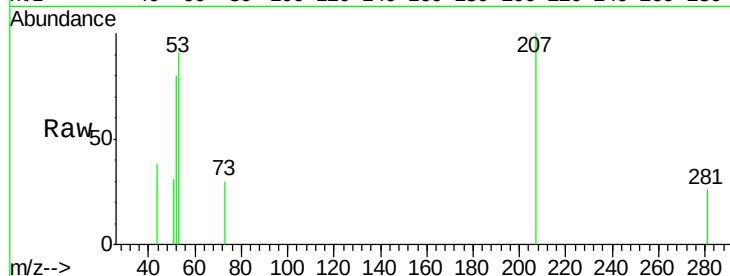
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion:	53	Resp:	1653
Ion	Ratio	Lower	Upper
53	100		
52	98.5	66.8	100.2
51	6.0	29.0	43.6#

Manual Integrations
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MMDadoda
3/4/2020 10:44:16 AM



#16

Acetone

Concen: 2.850 ug/l

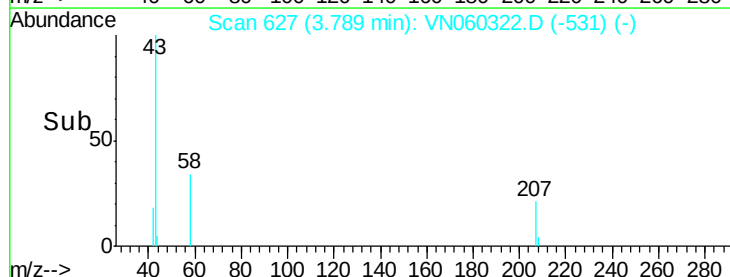
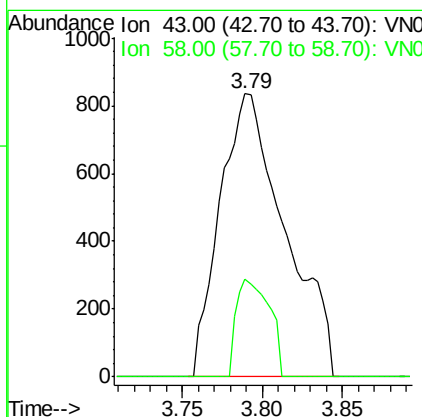
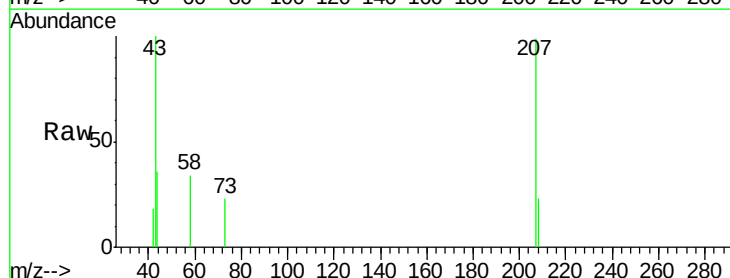
RT: 3.79 min Scan# 627

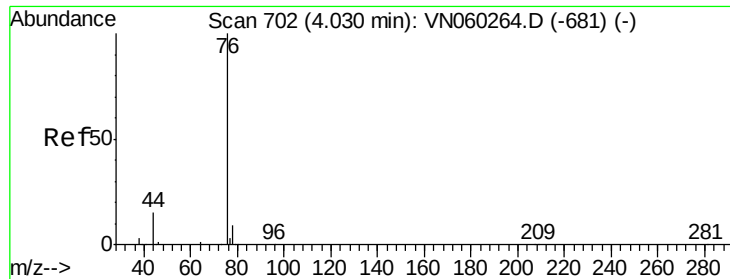
Delta R.T. 0.01 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

Tgt Ion:	43	Resp:	2332
Ion	Ratio	Lower	Upper
43	100		
58	34.5	24.6	36.8





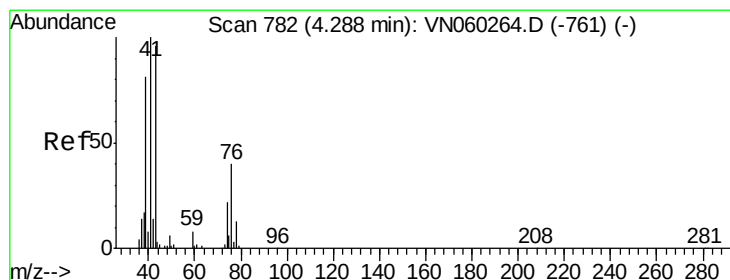
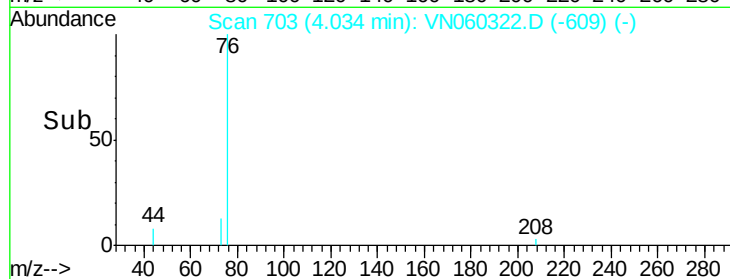
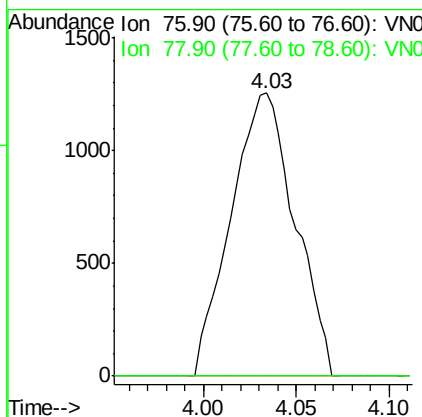
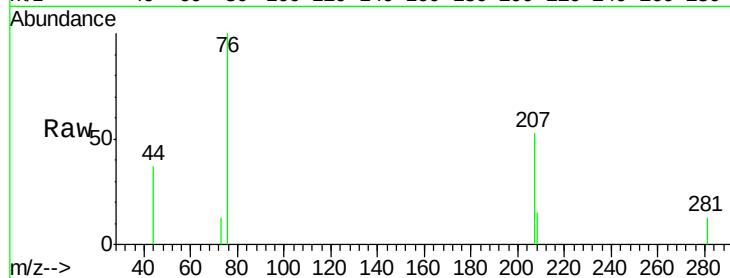
#17
Carbon Disulfide
Concen: 0.512 ug/l
RT: 4.03 min Scan# 703
Delta R.T. 0.00 min
Lab File: VN060322.D
Acq: 3 Mar 2020 12:26

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

Tot Ion: 76 Resp: 3014
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#

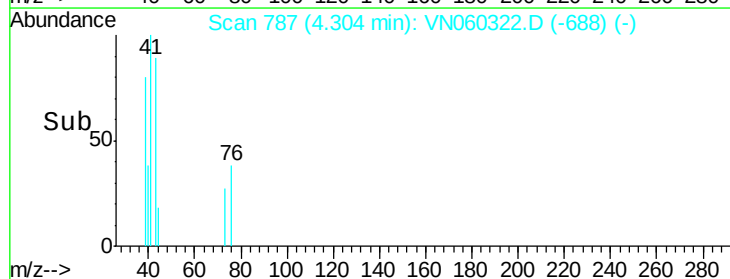
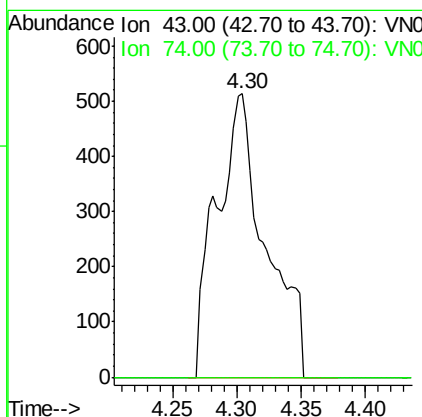
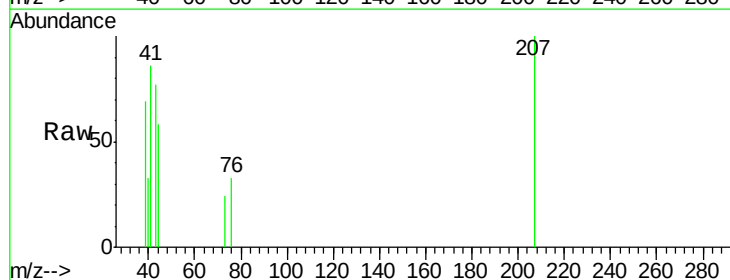
Manual Integrations
APPROVED

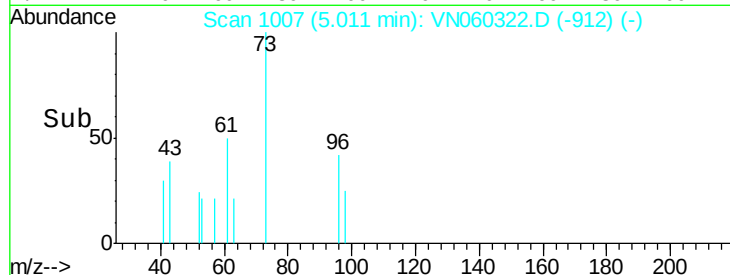
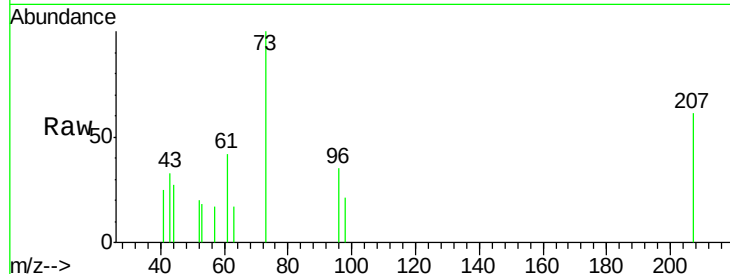
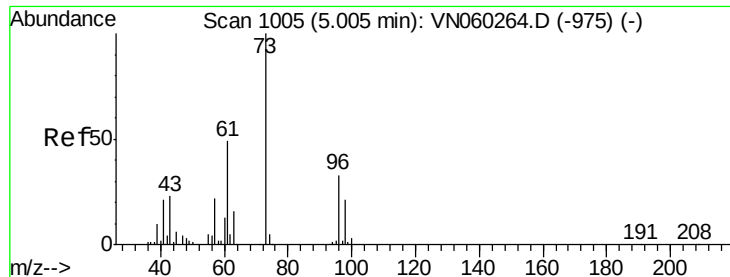
MMDadoda
3/4/2020 10:44:16 AM



#18
Methyl Acetate
Concen: 0.499 ug/l m
RT: 4.30 min Scan# 787
Delta R.T. 0.02 min
Lab File: VN060322.D
Acq: 3 Mar 2020 12:26

Tgt Ion: 43 Resp: 1362
Ion Ratio Lower Upper
43 100
74 0.0 18.8 28.2#





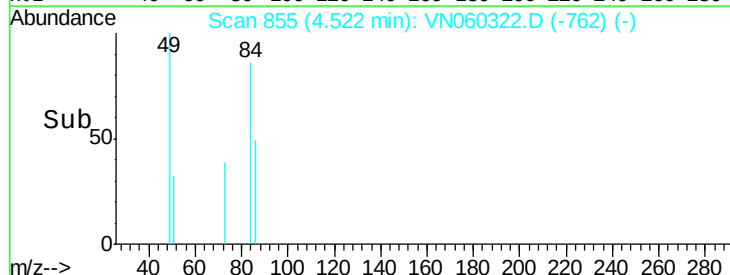
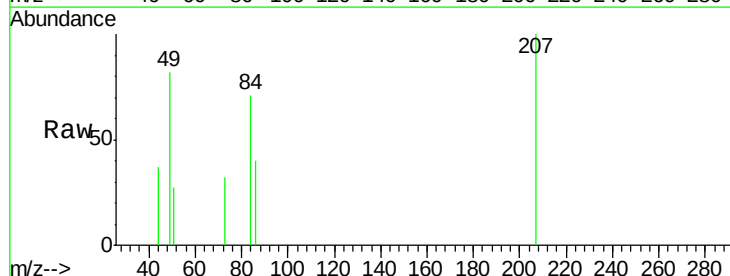
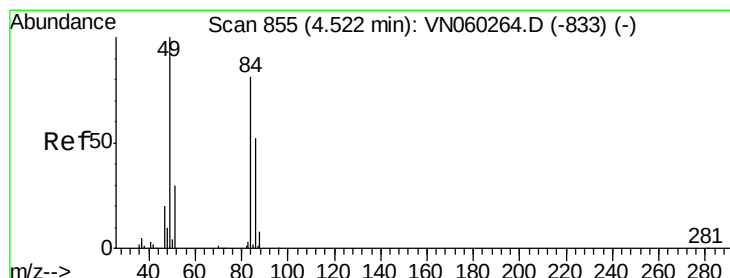
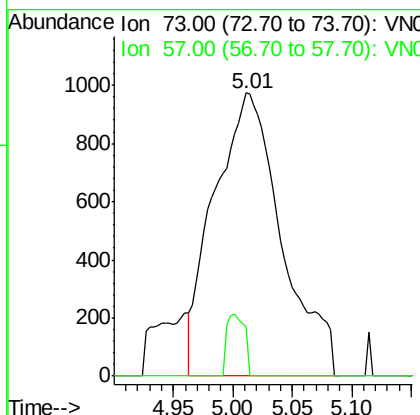
#19
Methyl tert-butyl Ether
Concen: 0.556 ug/l
RT: 5.01 min Scan# 1007
Delta R.T. 0.01 min
Lab File: VN060322.D
Acq: 3 Mar 2020 12:26

Tot Ion: 73 Resp: 3832
Ion Ratio Lower Upper
73 100
57 17.2 17.3 25.9#

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

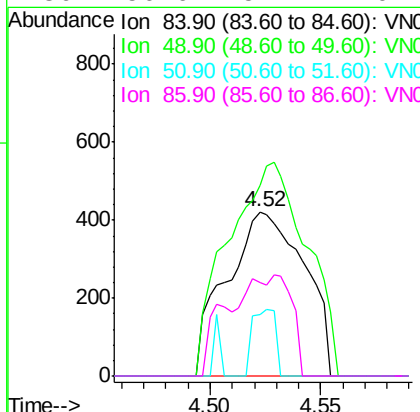
Manual Integrations
APPROVED

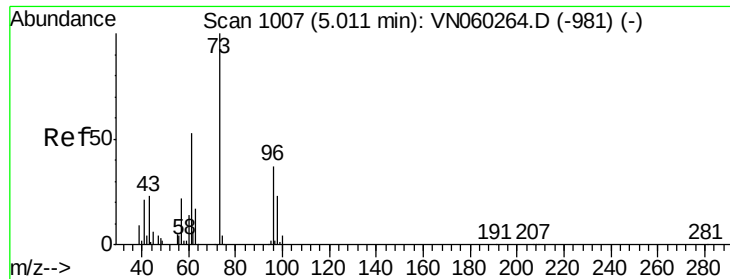
MMDadoda
3/4/2020 10:44:16 AM



#20
Methylene Chloride
Concen: 0.459 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060322.D
Acq: 3 Mar 2020 12:26

Tgt Ion: 84 Resp: 1031
Ion Ratio Lower Upper
84 100
49 116.1 99.3 148.9
51 37.7 30.1 45.1
86 56.6 51.1 76.7





#21

trans-1,2-Dichloroethene

Concen: 0.454 ug/l

RT: 5.02 min Scan# 1010

Delta R.T. 0.01 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

Instrument :

MSVOA_N

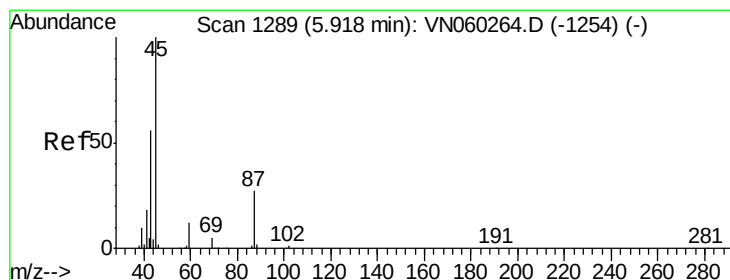
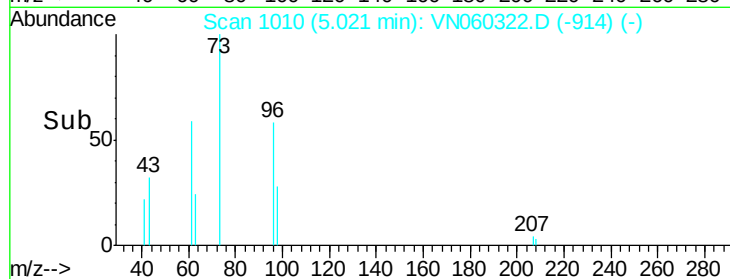
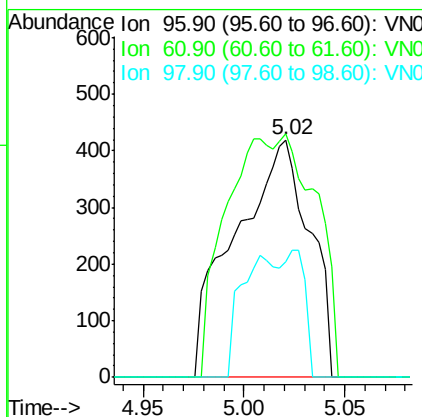
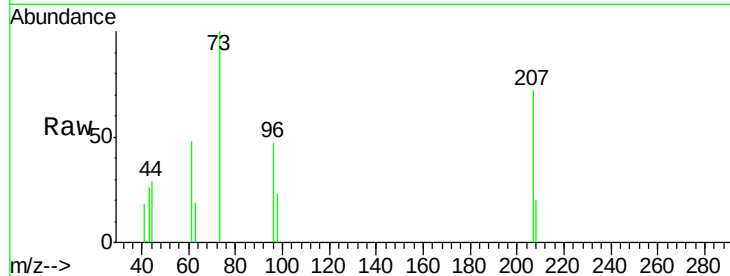
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion:	96	Resp:	1068
Ion	Ratio	Lower	Upper
96	100		
61	102.6	113.8	170.8#
98	48.4	48.8	73.2#

Manual Integrations
APPROVED

MMDadoda
3/4/2020 10:44:16 AM



#22

Diisopropyl ether

Concen: 0.442 ug/l

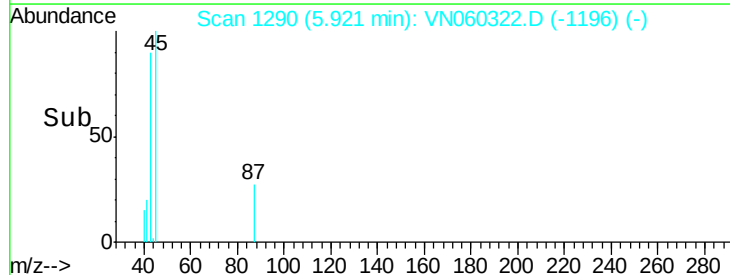
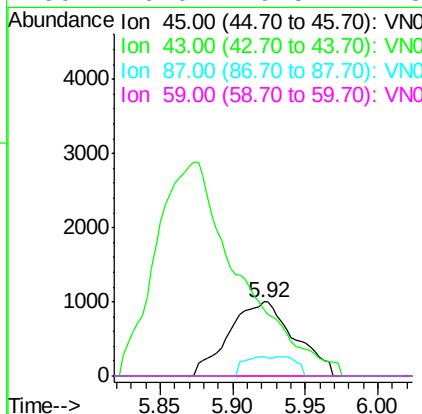
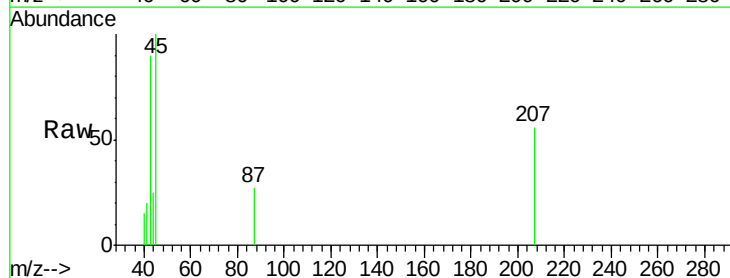
RT: 5.92 min Scan# 1290

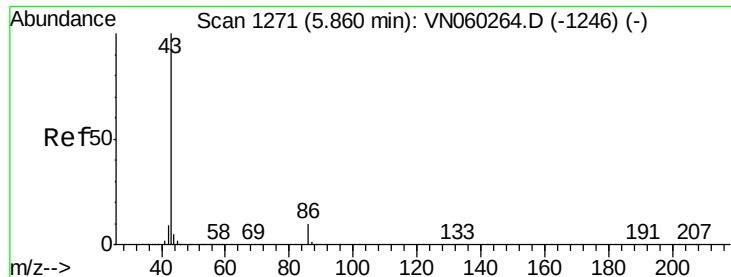
Delta R.T. 0.00 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

Tgt Ion:	45	Resp:	3129
Ion	Ratio	Lower	Upper
45	100		
43	72.5	48.6	72.8
87	26.6	22.2	33.2
59	0.0	9.5	14.3#





#23

Vinyl Acetate

Concen: 2.051 ug/l

RT: 5.87 min Scan# 1275

Delta R.T. 0.01 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion: 43 Resp: 11547

Ion Ratio Lower Upper

43 100

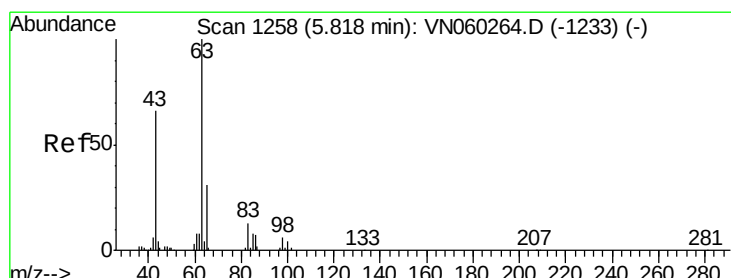
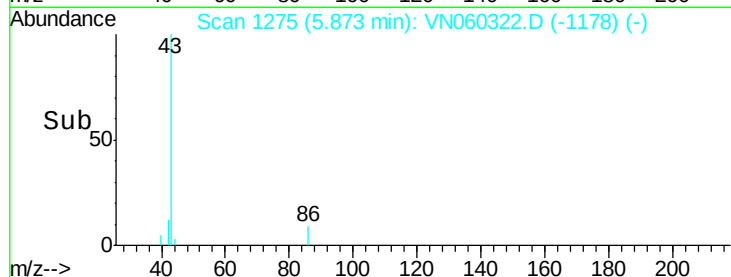
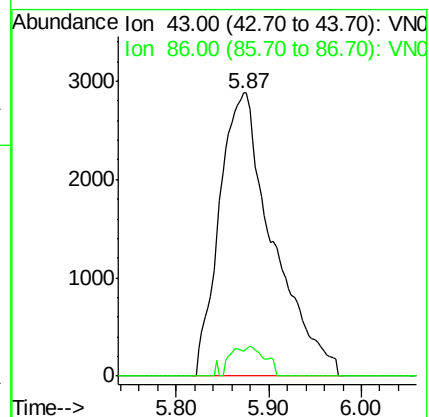
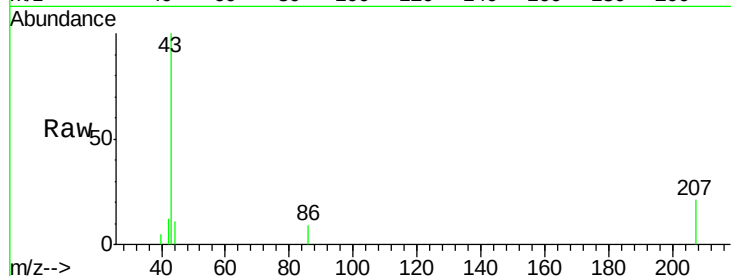
86 8.7 8.0 12.0

Manual Integrations

APPROVED

MMDadoda

3/4/2020 10:44:16 AM



#24

1,1-Dichloroethane

Concen: 0.418 ug/l

RT: 5.82 min Scan# 1258

Delta R.T. 0.00 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

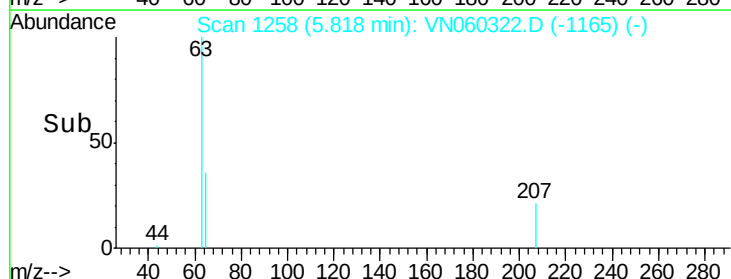
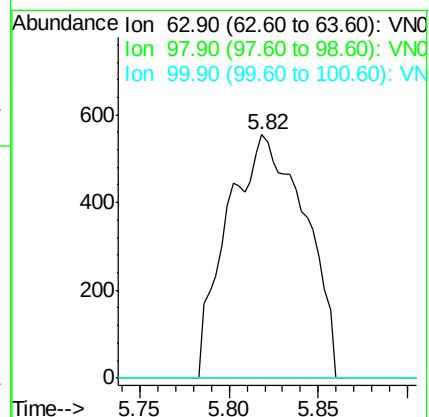
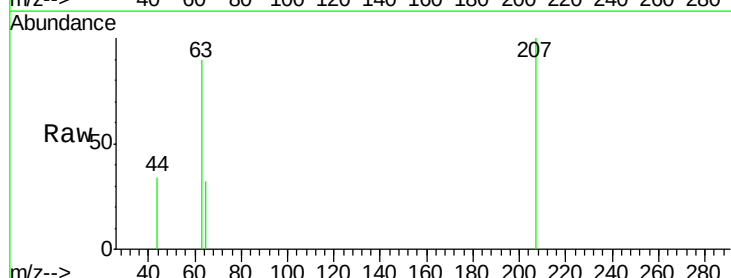
Tgt Ion: 63 Resp: 1677

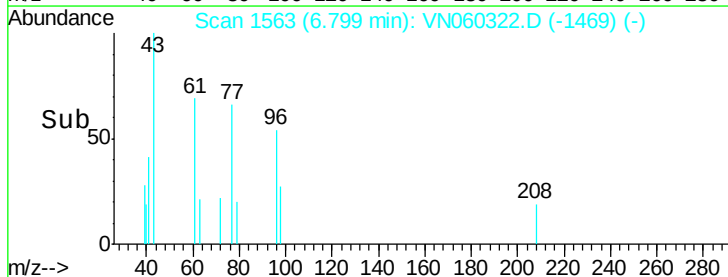
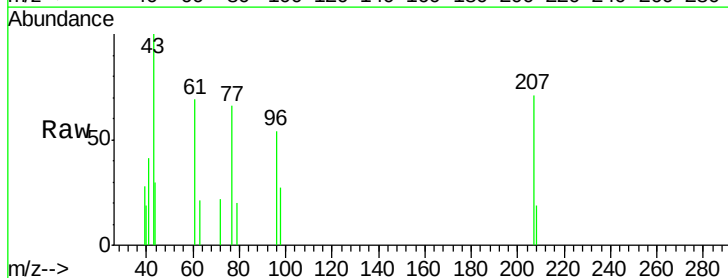
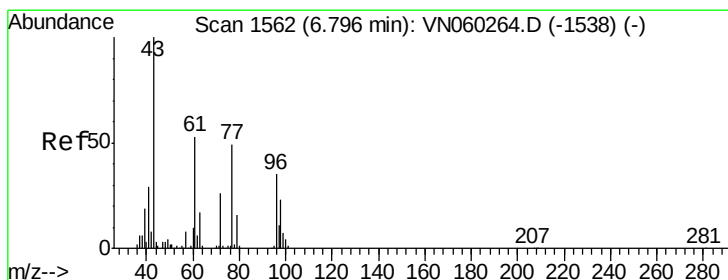
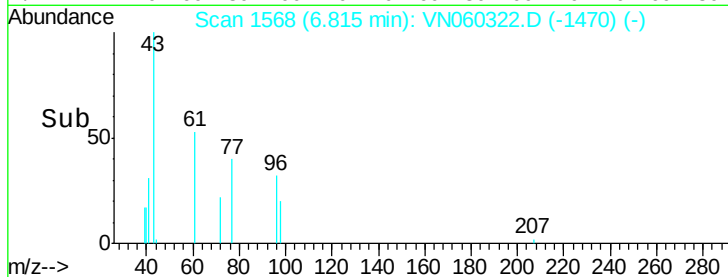
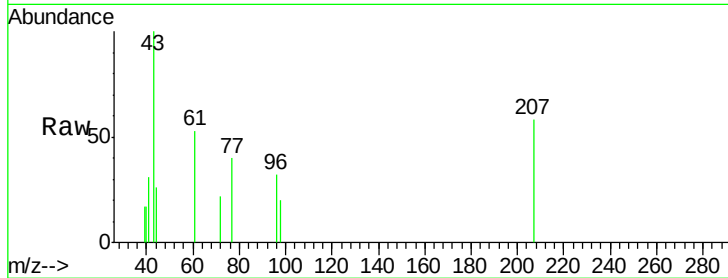
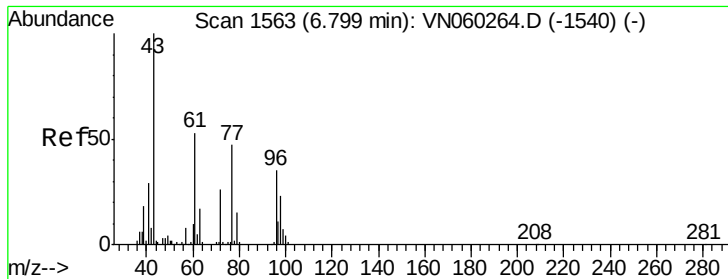
Ion Ratio Lower Upper

63 100

98 0.0 3.0 9.0#

100 0.0 2.0 6.0#





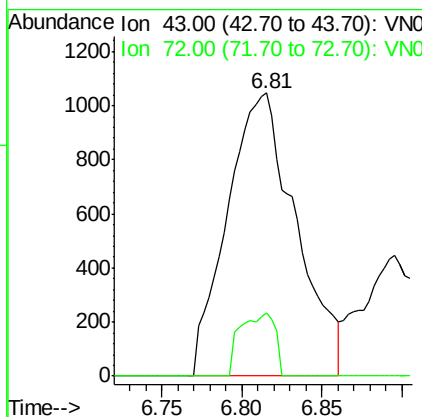
#25
2-Butanone
Concen: 2.342 ug/l
RT: 6.81 min Scan# 1568
Delta R.T. 0.02 min
Lab File: VN060322.D
Acq: 3 Mar 2020 12:26

Tot Ion	Ratio	Lower	Upper
43	100		
72	22.4	20.9	31.3

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

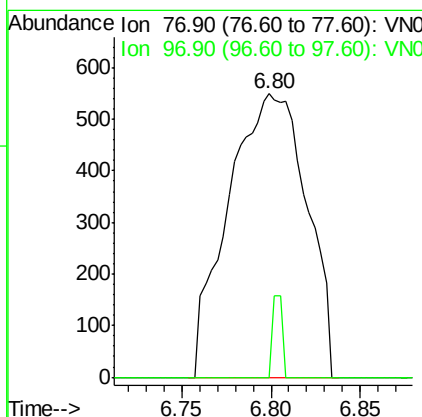
Manual Integrations
APPROVED

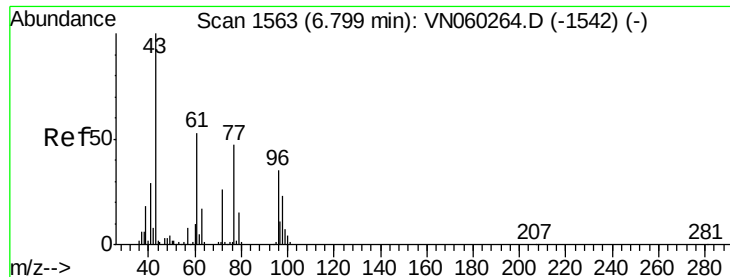
MMDadoda
3/4/2020 10:44:16 AM



#26
2,2-Dichloropropane
Concen: 0.460 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VN060322.D
Acq: 3 Mar 2020 12:26

Tgt Ion	Ratio	Lower	Upper
77	100		
97	3.6	11.2	33.6#





#27

cis-1,2-Dichloroethene

Concen: 0.497 ug/l

RT: 6.80 min Scan# 1562

Delta R.T. -0.00 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

Instrument :

MSVOA_N

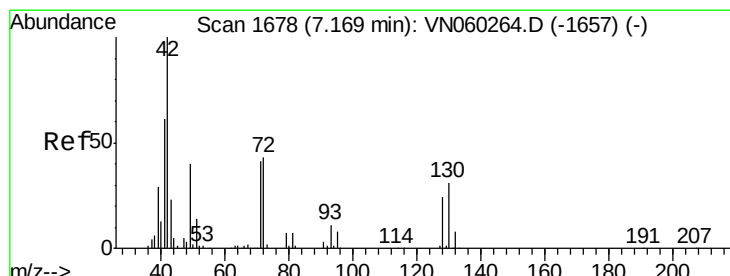
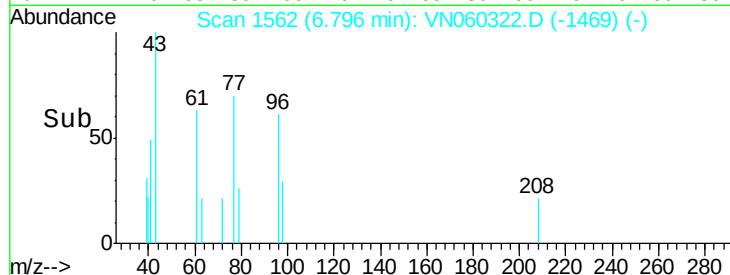
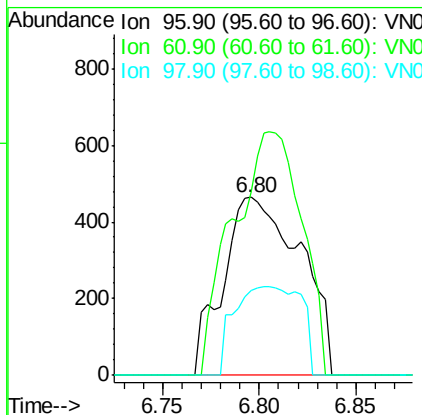
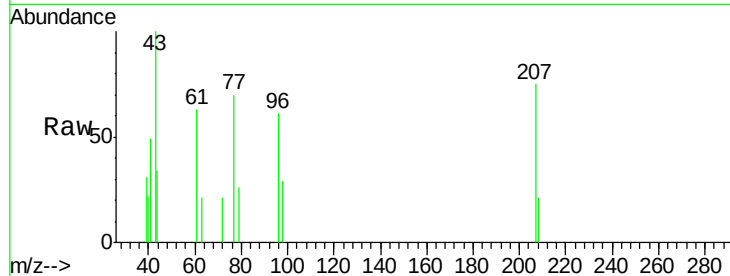
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion:	96	Resp:	1295
Ion	Ratio	Lower	Upper
96	100		
61	122.2	0.0	300.8
98	42.9	0.0	128.2

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#28

Bromochloromethane

Concen: 0.460 ug/l

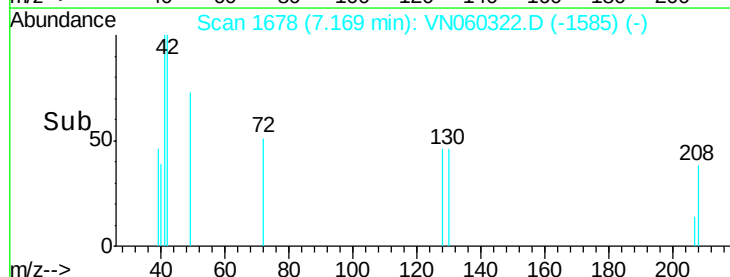
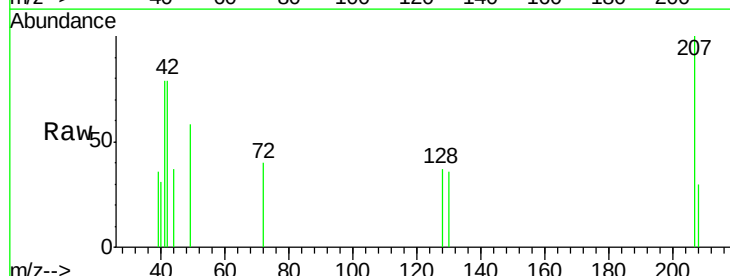
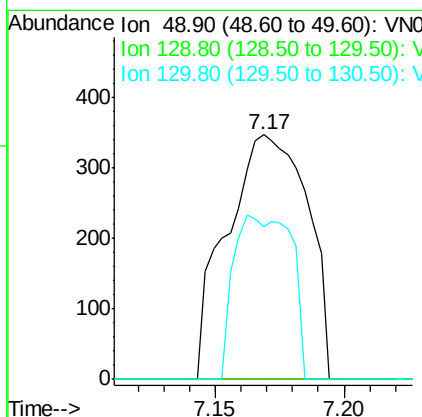
RT: 7.17 min Scan# 1678

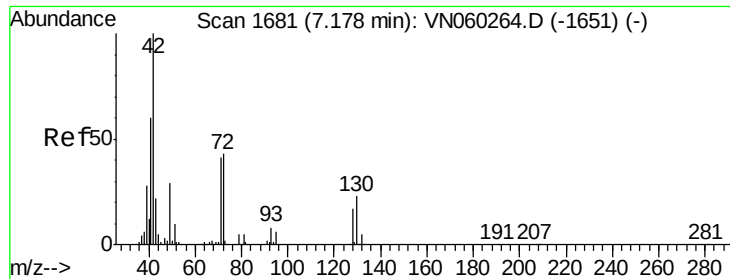
Delta R.T. 0.00 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

Tgt Ion:	49	Resp:	757
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	47.8	59.8	89.8#





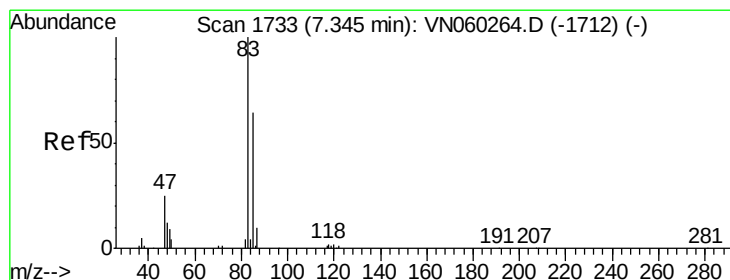
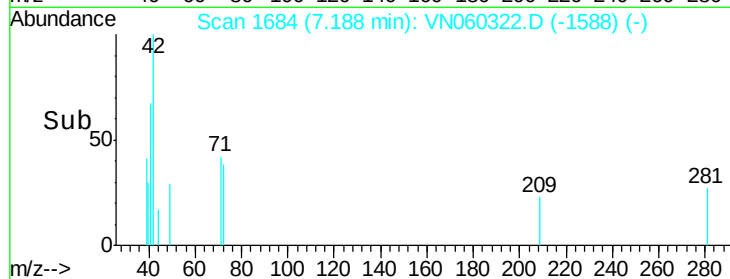
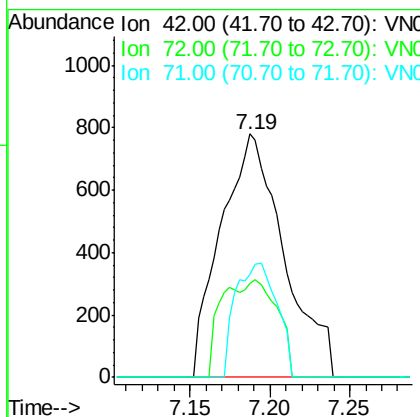
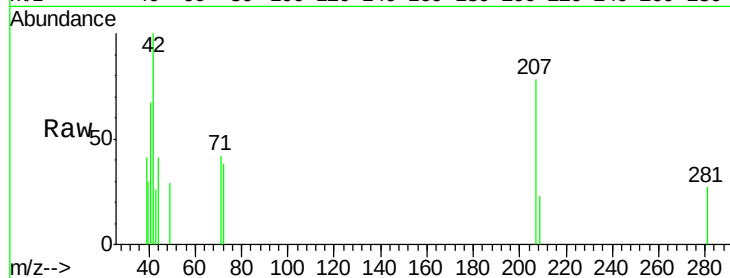
#29
Tetrahydrofuran
Concen: 2.305 ug/l
RT: 7.19 min Scan# 1684
Delta R.T. 0.01 min
Lab File: VN060322.D
Acq: 3 Mar 2020 12:26

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

Tot Ion	Ratio	Lower	Upper
42	100		
72	14.2	34.6	52.0#
71	30.3	32.9	49.3#

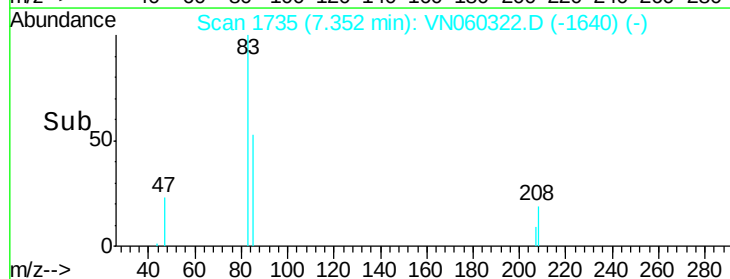
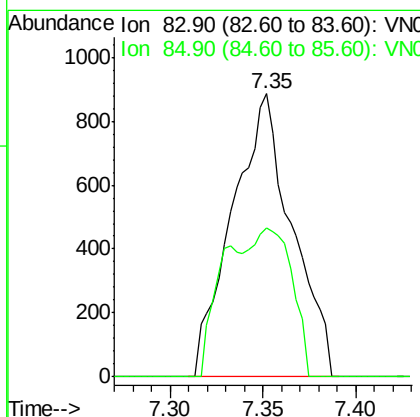
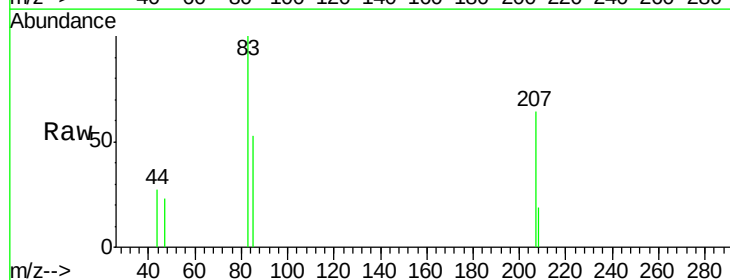
Manual Integrations
APPROVED

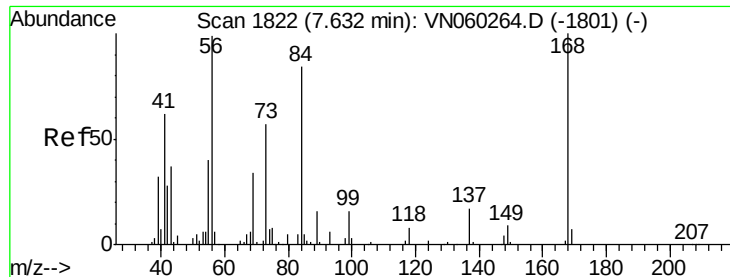
MMDadoda
3/4/2020 10:44:16 AM



#30
Chloroform
Concen: 0.496 ug/l
RT: 7.35 min Scan# 1735
Delta R.T. 0.01 min
Lab File: VN060322.D
Acq: 3 Mar 2020 12:26

Tgt Ion	Ratio	Lower	Upper
83	100		
85	52.7	51.4	77.2





#31

Cyclohexane

Concen: 1.602 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.01 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

Instrument :

MSVOA_N

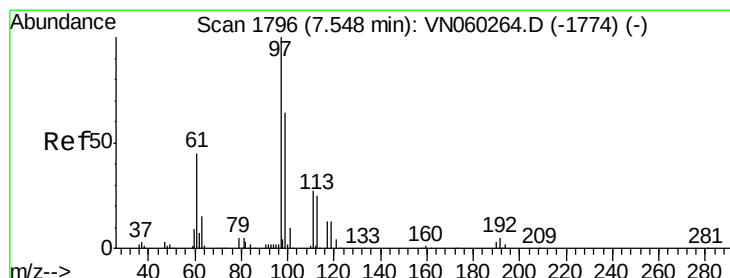
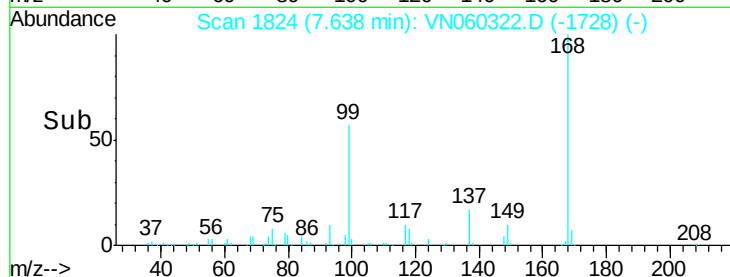
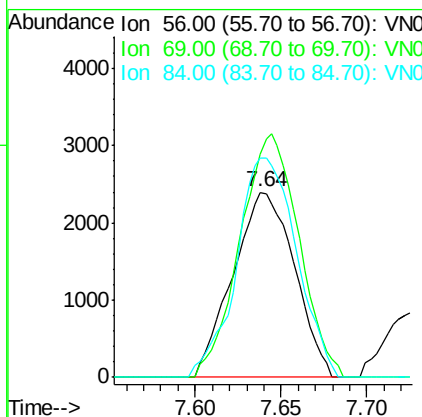
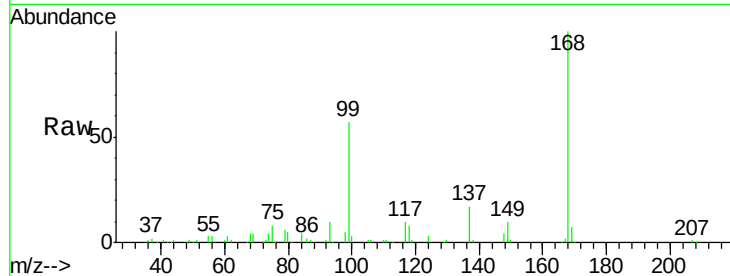
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion:	56	Resp:	5958
Ion	Ratio	Lower	Upper
56	100		
69	120.1	27.2	40.8#
84	118.4	66.7	100.1#

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 0.408 ug/l

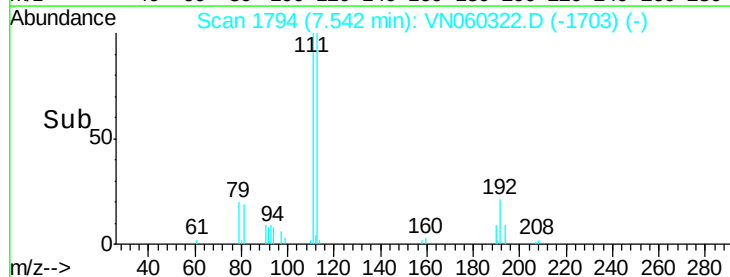
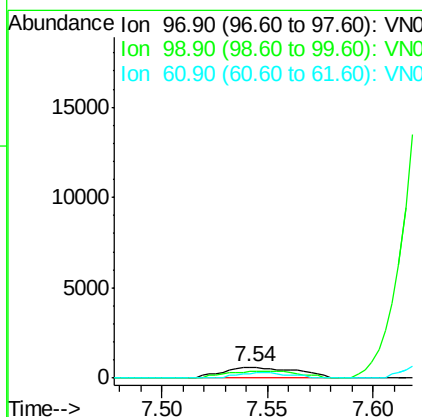
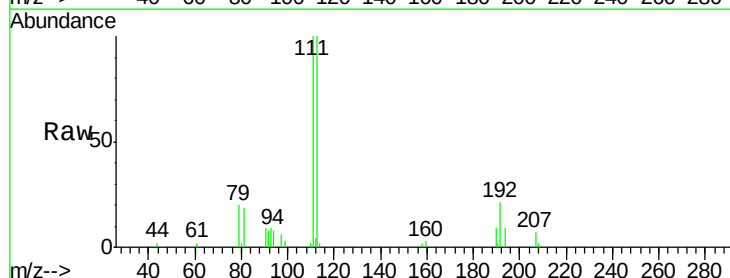
RT: 7.54 min Scan# 1794

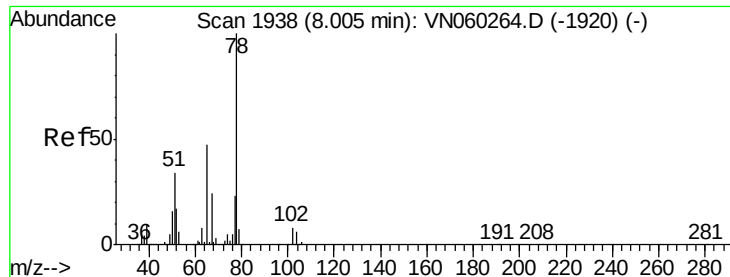
Delta R.T. -0.01 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

Tgt Ion:	97	Resp:	1444
Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.4	77.0#
61	35.6	36.6	55.0#





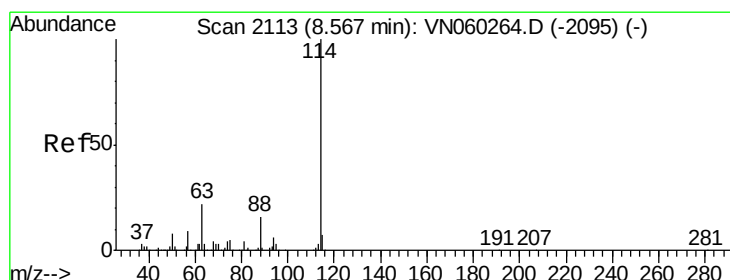
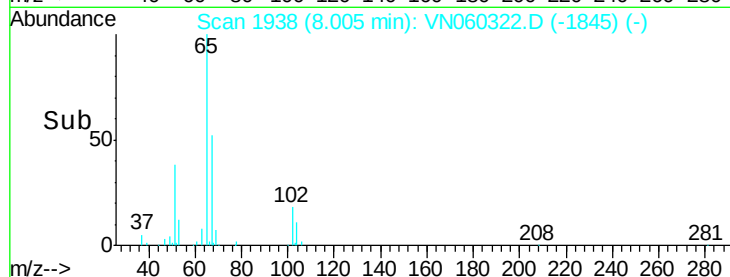
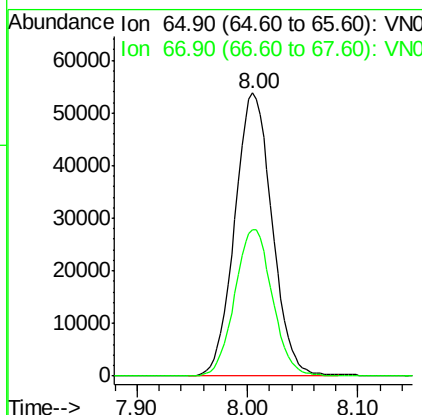
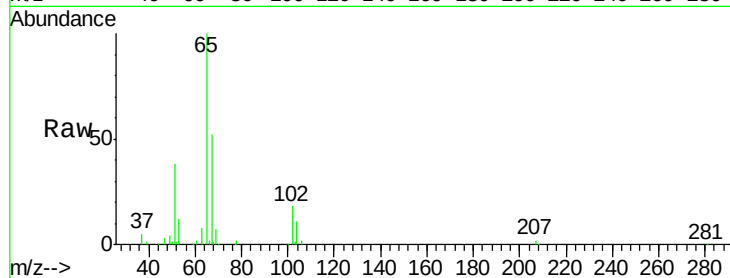
#33
 1,2-Dichloroethane-d4
 Concen: 49.791 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060322.D
 Acq: 3 Mar 2020 12:26

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

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	52.1	0.0	103.8	

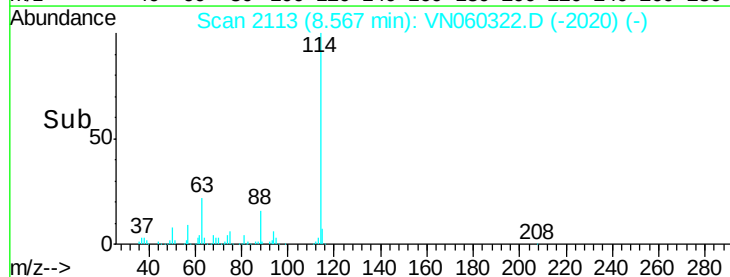
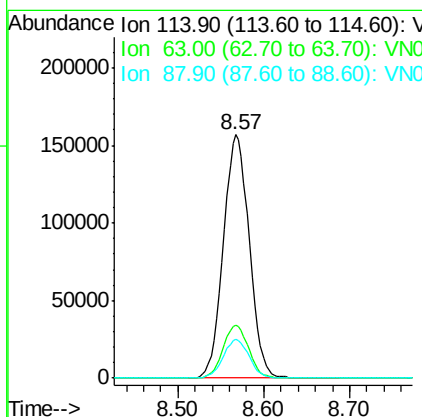
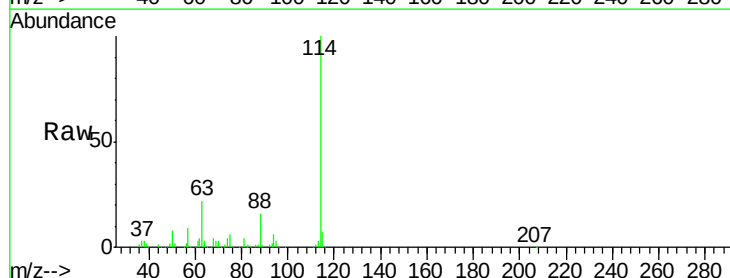
Manual Integrations
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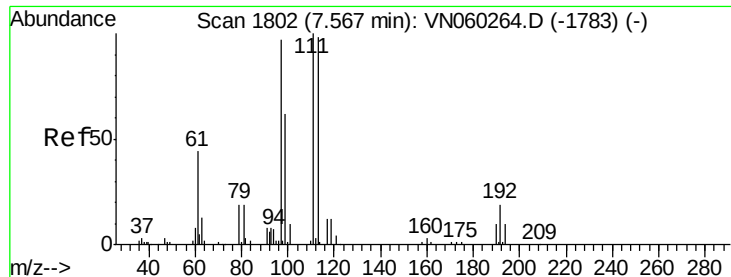
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 3/4/2020 10:44:16 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060322.D
 Acq: 3 Mar 2020 12:26

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	21.8	0.0	43.2	
88	15.9	0.0	31.6	





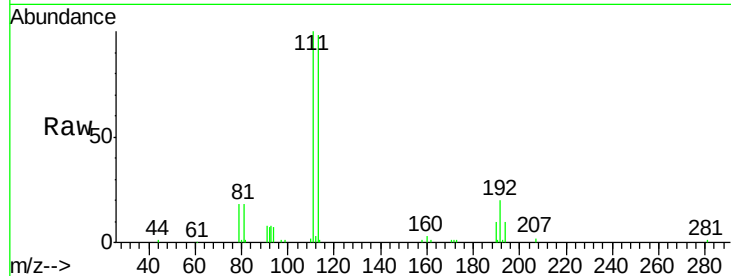
#35
 Dibromofluoromethane
 Concen: 57.979 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060322.D
 Acq: 3 Mar 2020 12:26

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

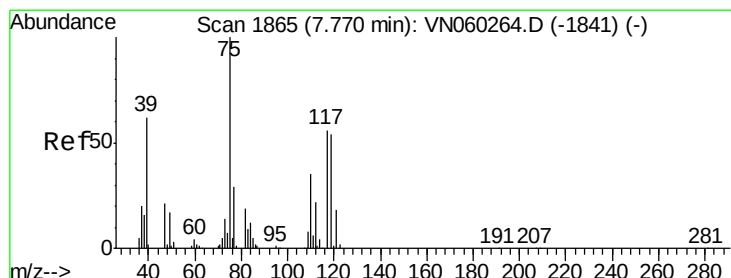
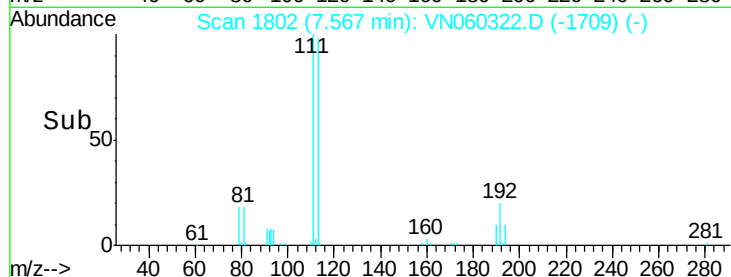
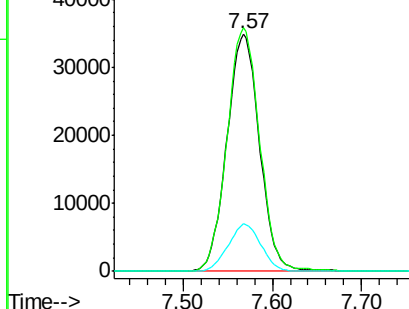
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.4	123.6
192	20.0	16.2	24.2

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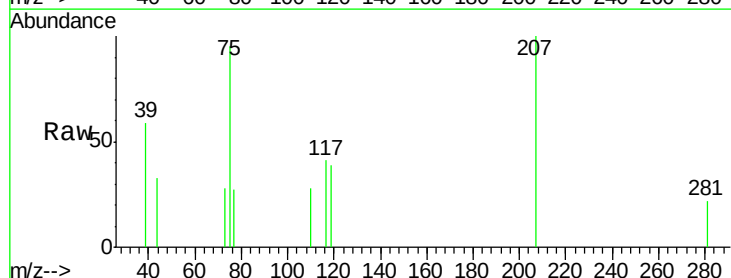


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

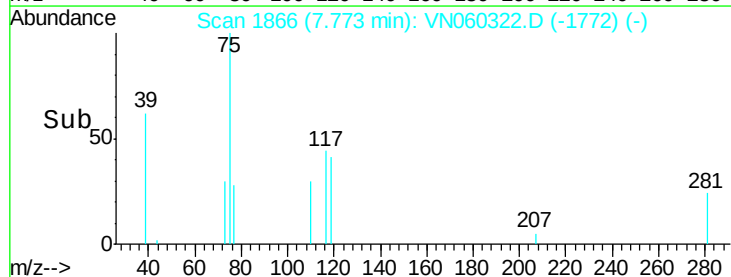
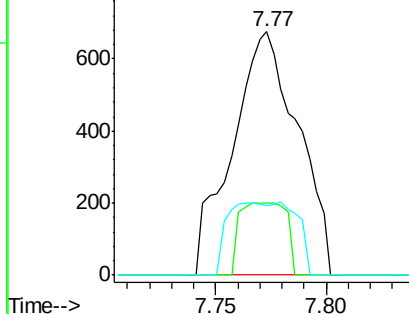


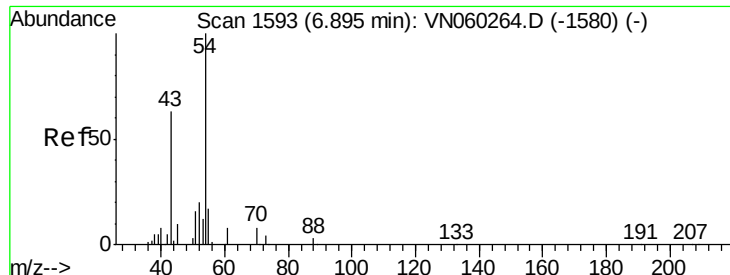
#36
 1,1-Dichloropropene
 Concen: 0.447 ug/l
 RT: 7.77 min Scan# 1866
 Delta R.T. 0.00 min
 Lab File: VN060322.D
 Acq: 3 Mar 2020 12:26

Tgt Ion	Ratio	Lower	Upper
75	100		
110	21.3	17.3	52.0
77	18.3	24.2	36.2#



Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VNO





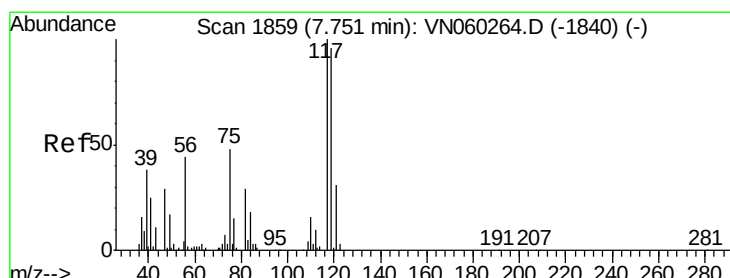
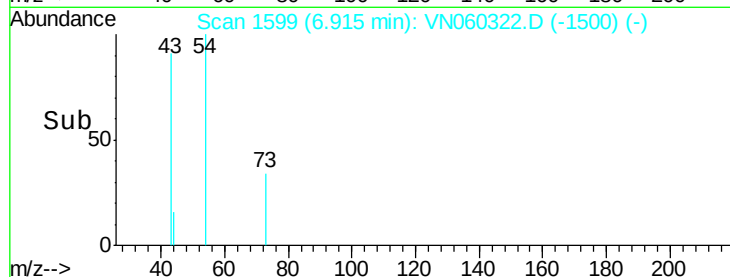
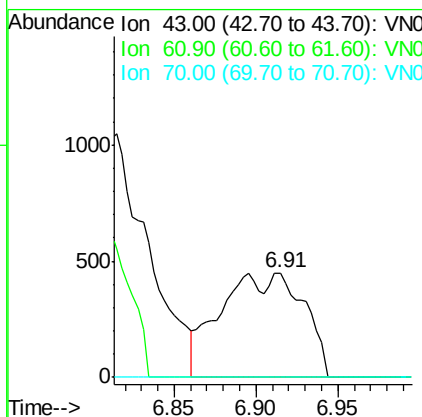
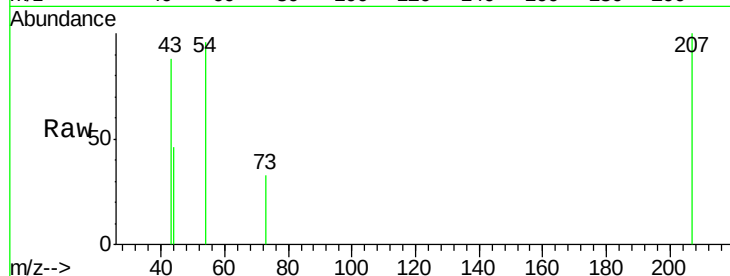
#37
Ethyl Acetate
Concen: 0.537 ug/l m
RT: 6.91 min Scan# 1599
Delta R.T. 0.02 min
Lab File: VN060322.D
Acq: 3 Mar 2020 12:26

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

Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.1	16.7#
70	0.0	8.4	12.6#

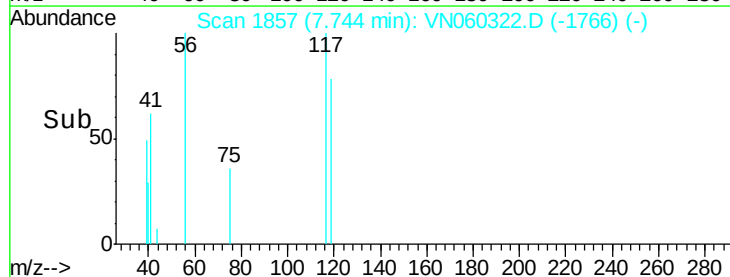
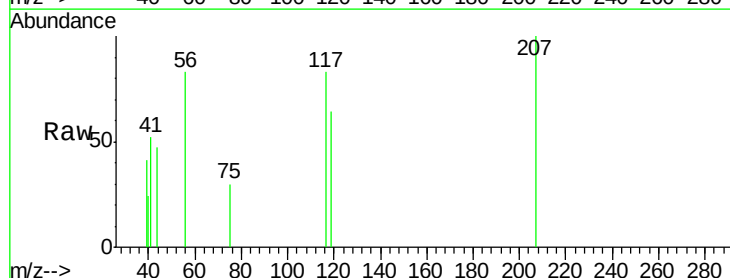
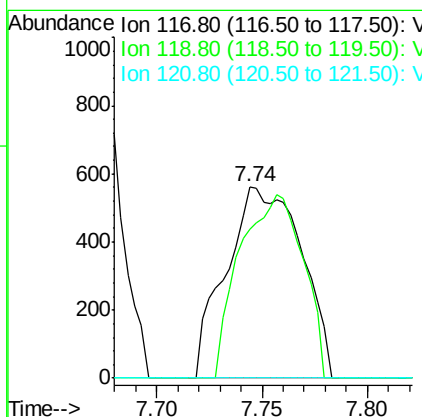
Manual Integrations
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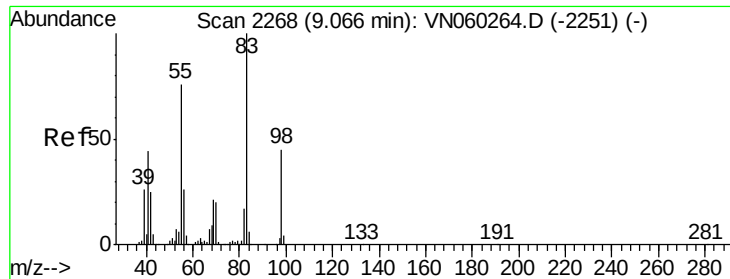
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3/4/2020 10:44:16 AM



#38
Carbon Tetrachloride
Concen: 0.460 ug/l
RT: 7.74 min Scan# 1857
Delta R.T. -0.01 min
Lab File: VN060322.D
Acq: 3 Mar 2020 12:26

Tgt Ion	Ratio	Lower	Upper
117	100		
119	77.6	76.7	115.1
121	0.0	24.5	36.7#





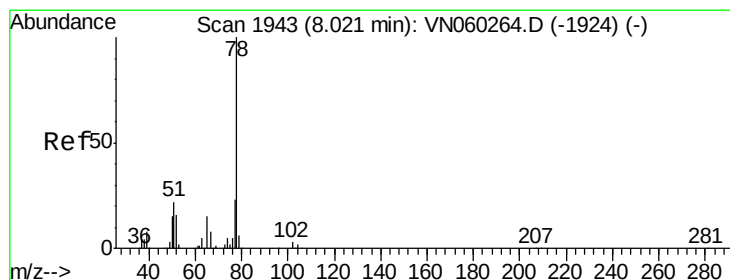
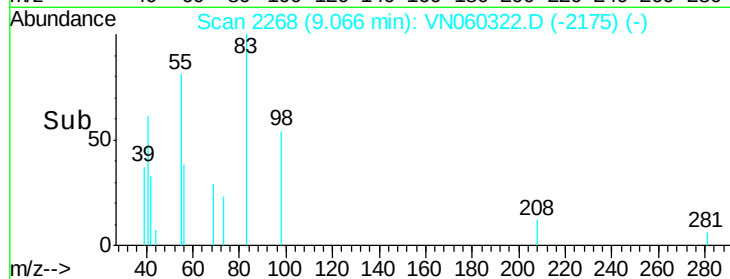
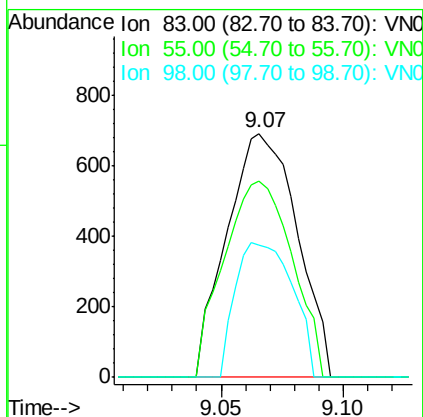
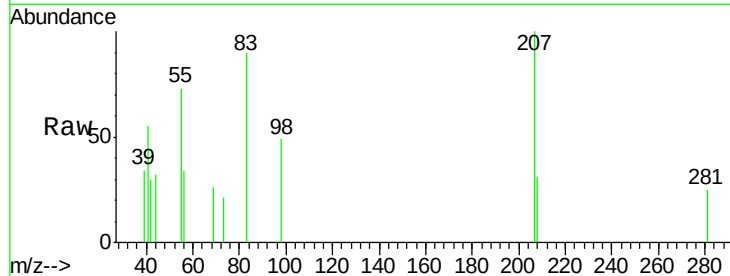
#39
Methylvlcyclohexane
Concen: 0.374 ug/l
RT: 9.07 min Scan# 2268
Delta R.T. 0.00 min
Lab File: VN060322.D
Acq: 3 Mar 2020 12:26

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

Tot Ion	Ratio	Lower	Upper
83	100		
55	80.6	61.0	91.4
98	54.4	36.1	54.1#

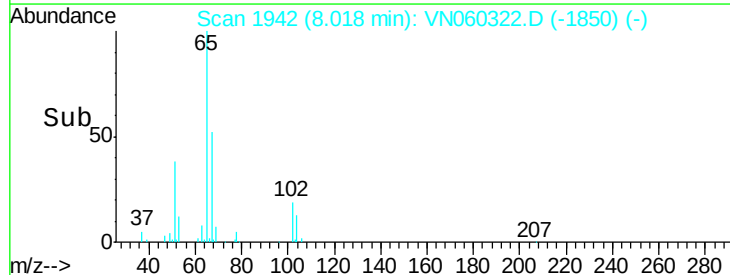
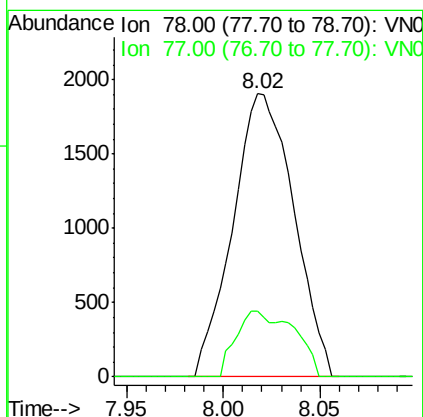
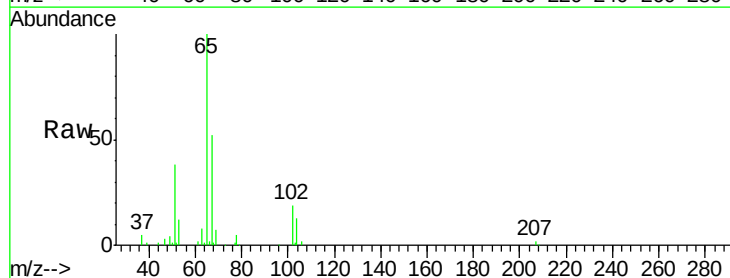
Manual Integrations
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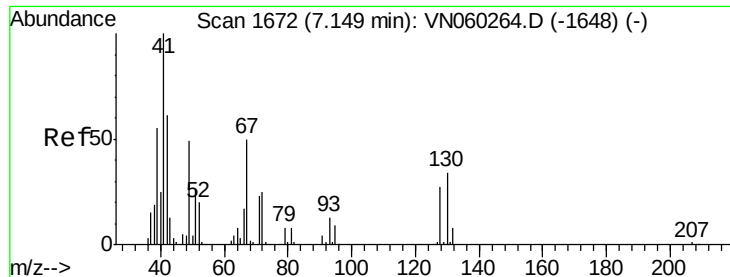
MMDadoda
3/4/2020 10:44:16 AM



#40
Benzene
Concen: 0.459 ug/l
RT: 8.02 min Scan# 1942
Delta R.T. -0.00 min
Lab File: VN060322.D
Acq: 3 Mar 2020 12:26

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.8	28.2





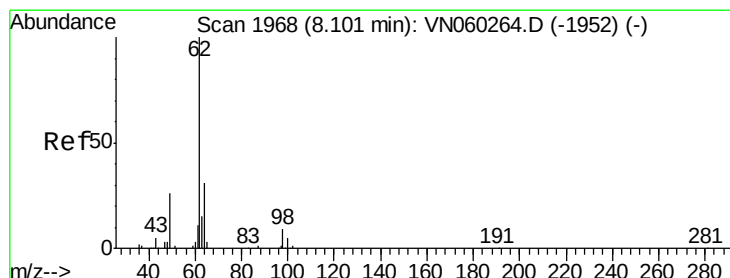
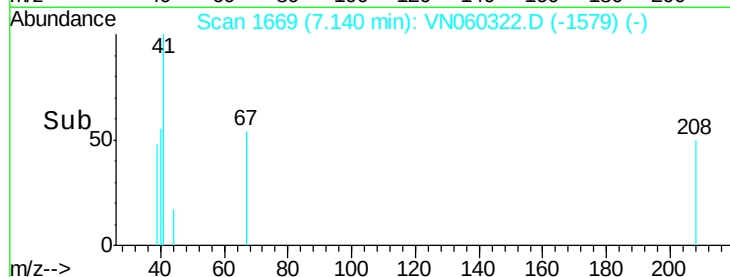
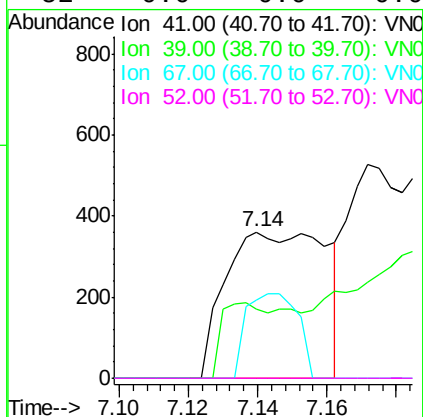
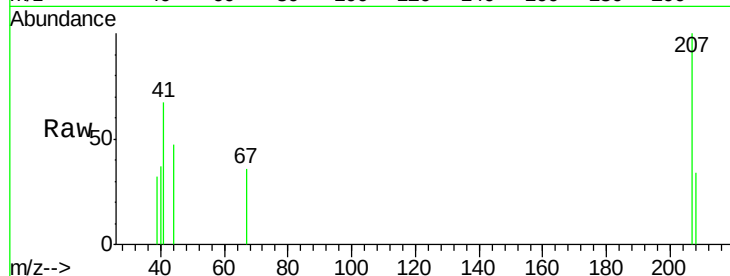
#41
Methacrylonitrile
Concen: 0.536 ug/l m
RT: 7.14 min Scan# 1669
Delta R.T. -0.01 min
Lab File: VN060322.D
Acq: 3 Mar 2020 12:26

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

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	22.9	0.0	0.0	0.0
67	29.5	0.0	0.0	0.0
52	0.0	0.0	0.0	0.0

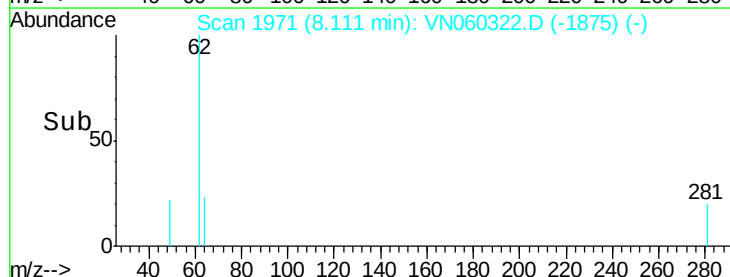
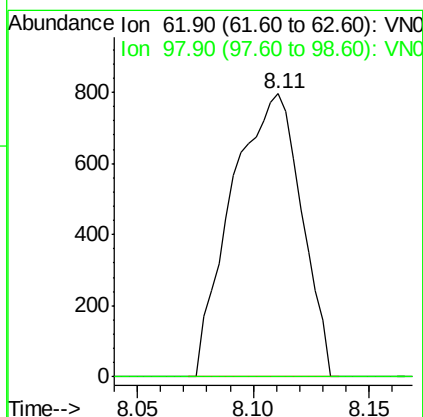
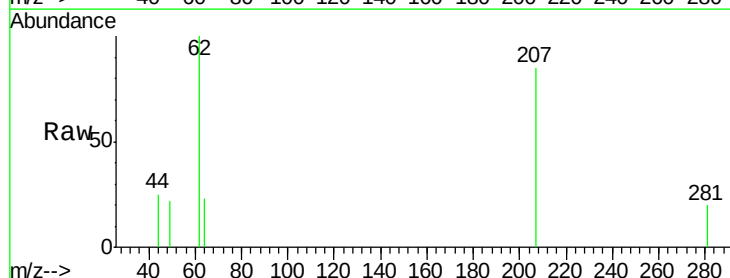
Manual Integrations
APPROVED

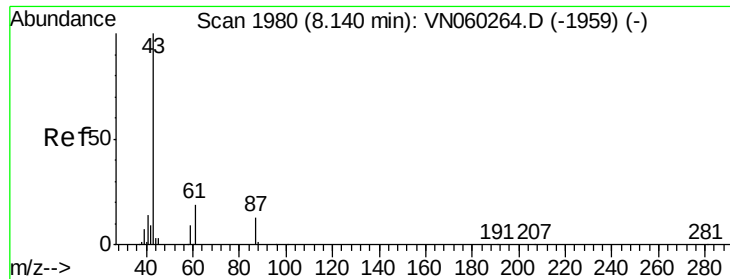
MMDadoda
3/4/2020 10:44:16 AM



#42
1,2-Dichloroethane
Concen: 0.504 ug/l
RT: 8.11 min Scan# 1971
Delta R.T. 0.01 min
Lab File: VN060322.D
Acq: 3 Mar 2020 12:26

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	0.0	0.0	0.0	17.0





#43

Isopropyl Acetate

Concen: 0.445 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

Instrument :

MSVOA_N

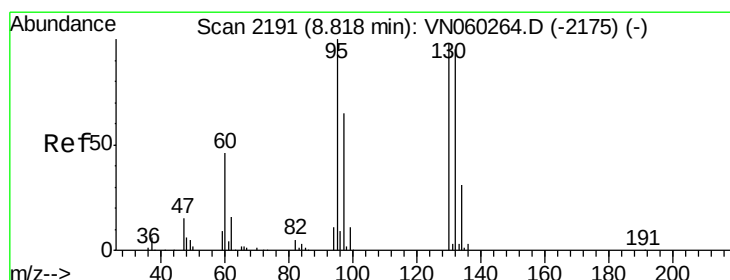
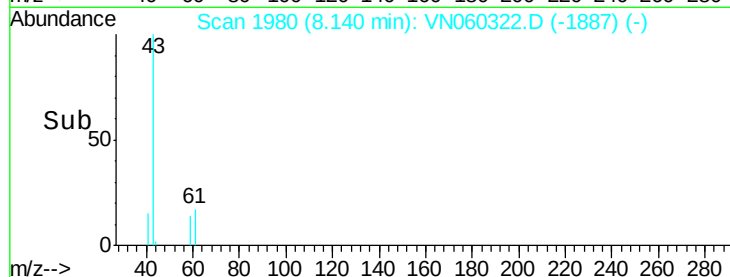
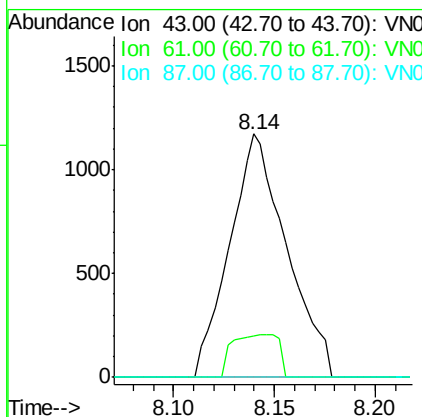
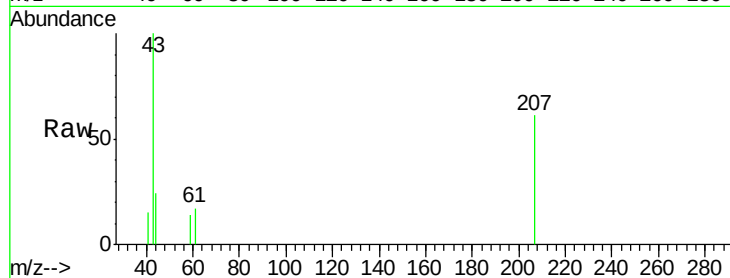
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion:	43	Resp:	2304
Ion	Ratio	Lower	Upper
43	100		
61	14.5	20.9	31.3#
87	0.0	10.6	16.0#

Manual Integrations
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MMDadoda
3/4/2020 10:44:16 AM



#44

Trichloroethene

Concen: 0.471 ug/l

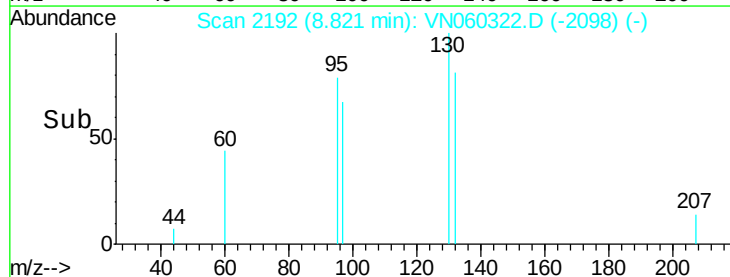
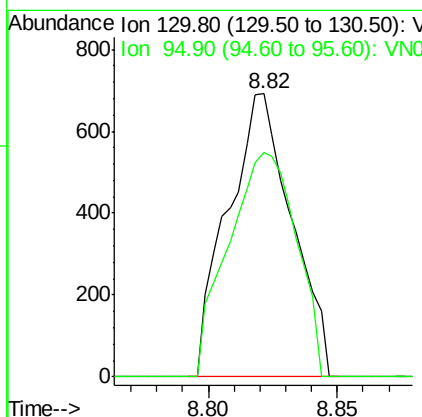
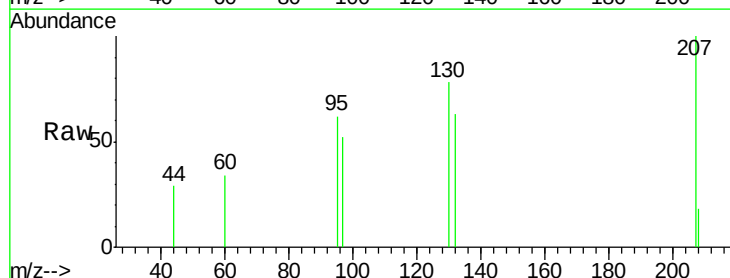
RT: 8.82 min Scan# 2192

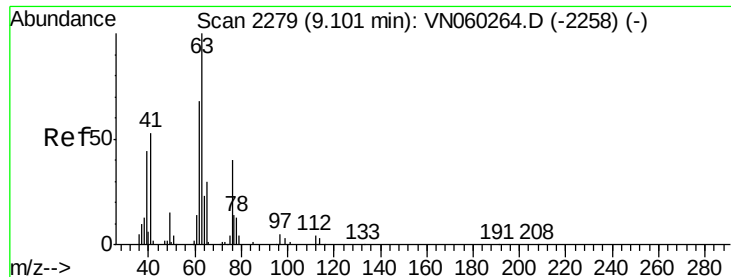
Delta R.T. 0.00 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

Tgt Ion:	130	Resp:	1194
Ion	Ratio	Lower	Upper
130	100		
95	79.5	0.0	203.4





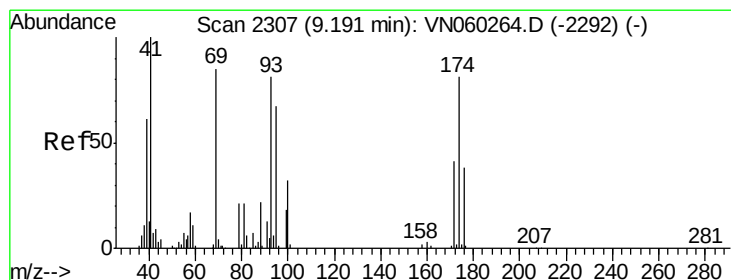
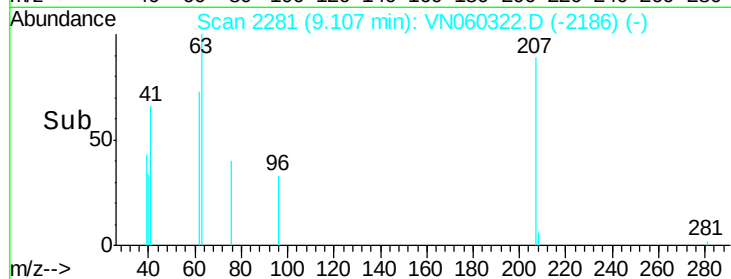
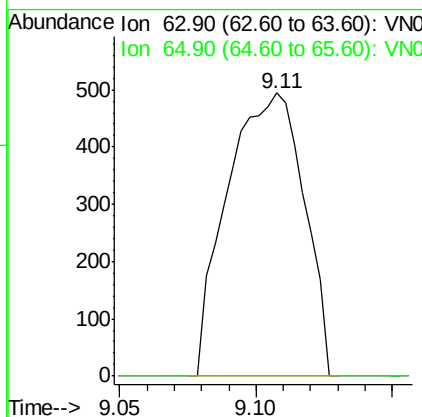
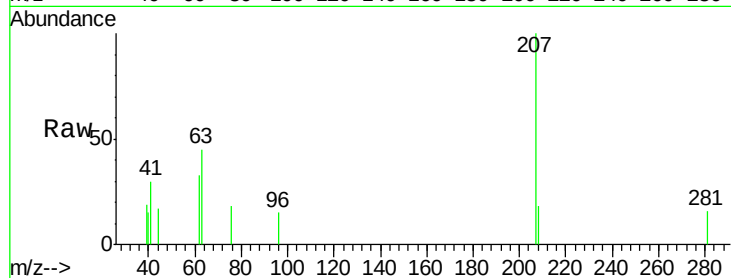
#45
 1,2-Dichloropropane
 Concen: 0.404 ug/l
 RT: 9.11 min Scan# 2281
 Delta R.T. 0.01 min
 Lab File: VN060322.D
 Acq: 3 Mar 2020 12:26

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

Tot Ion: 63 Resp: 962
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.4 36.6#

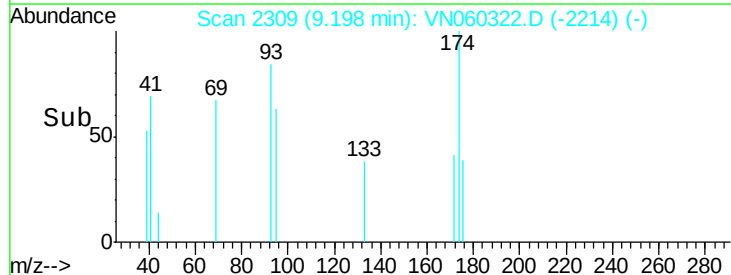
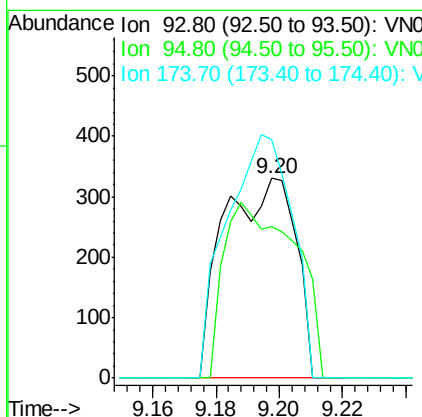
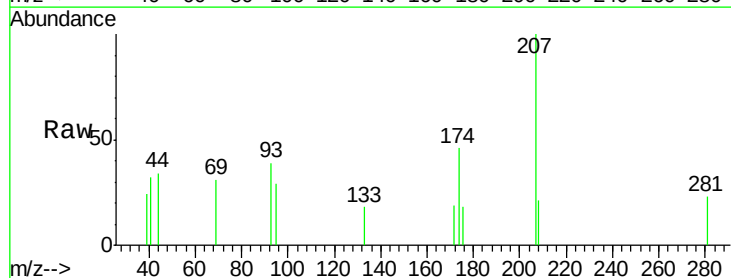
Manual Integrations
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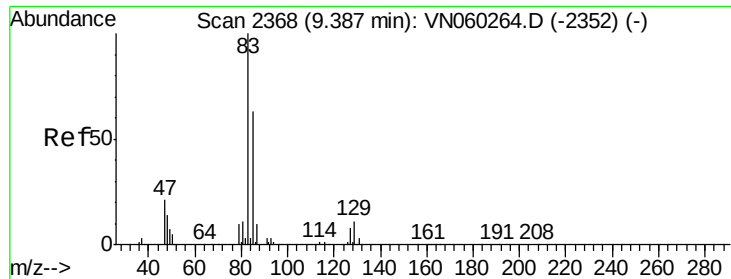
MMDadoda
 3/4/2020 10:44:16 AM



#46
 Dibromomethane
 Concen: 0.334 ug/l m
 RT: 9.20 min Scan# 2309
 Delta R.T. 0.01 min
 Lab File: VN060322.D
 Acq: 3 Mar 2020 12:26

Tgt Ion: 93 Resp: 516
 Ion Ratio Lower Upper
 93 100
 95 87.8 65.9 98.9
 174 111.2 79.6 119.4





#47

Bromodichloromethane

Concen: 0.411 ug/l

RT: 9.39 min Scan# 2368

Delta R.T. 0.00 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

Instrument :

MSVOA_N

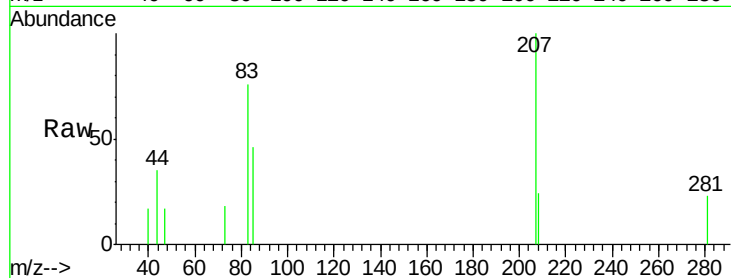
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

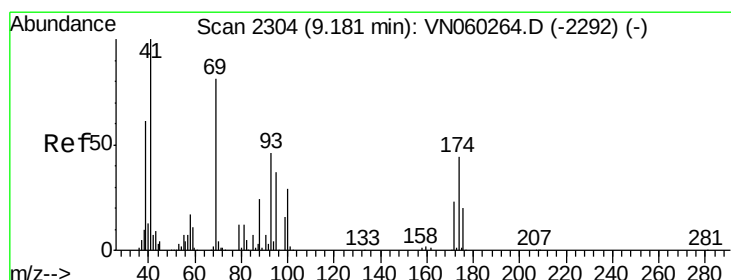
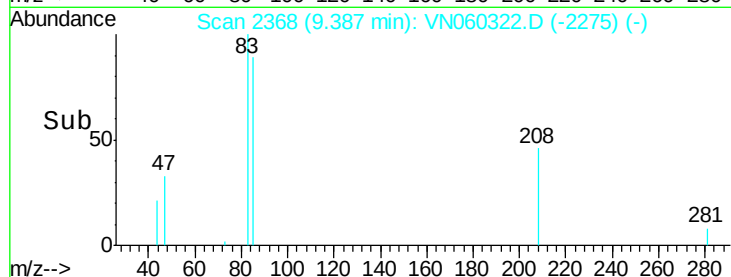
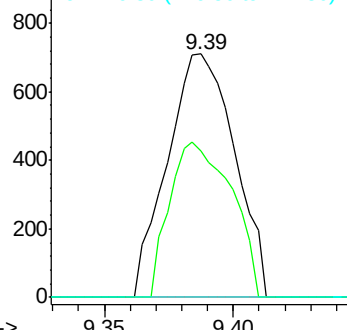
Tot Ion:	83	Resp:	1290
Ion	Ratio	Lower	Upper
83	100		
85	60.1	50.7	76.1
127	0.0	6.8	10.2#

Manual Integrations
APPROVED

MMDadoda
3/4/2020 10:44:16 AM



Abundance Ion 82.90 (82.60 to 83.60): VN060322.D (-2275) (-)



#48

Methyl methacrylate

Concen: 0.402 ug/l

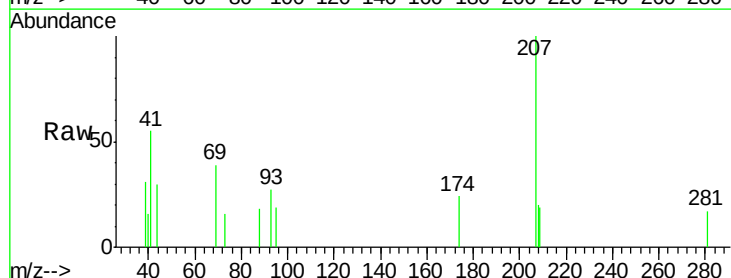
RT: 9.18 min Scan# 2304

Delta R.T. 0.00 min

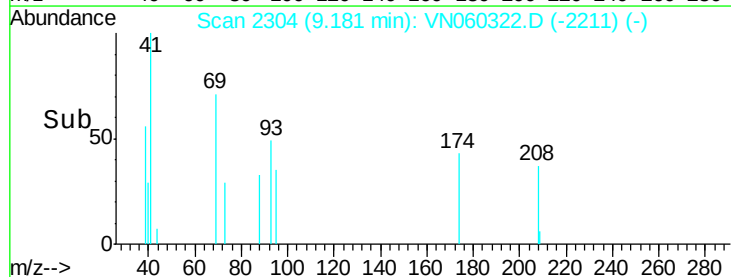
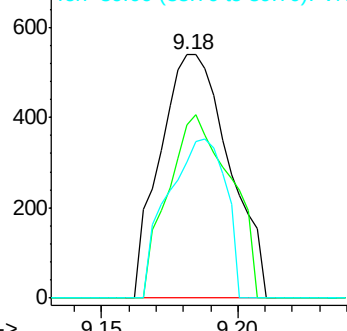
Lab File: VN060322.D

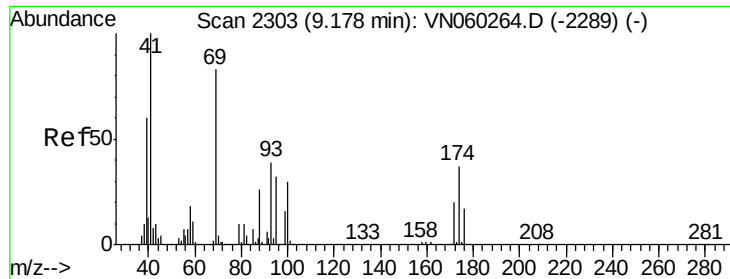
Acq: 3 Mar 2020 12:26

Tgt Ion:	41	Resp:	949
Ion	Ratio	Lower	Upper
41	100		
69	68.3	66.7	100.1
39	54.7	50.1	75.1



Abundance Ion 41.00 (40.70 to 41.70): VN060322.D (-2211) (-)





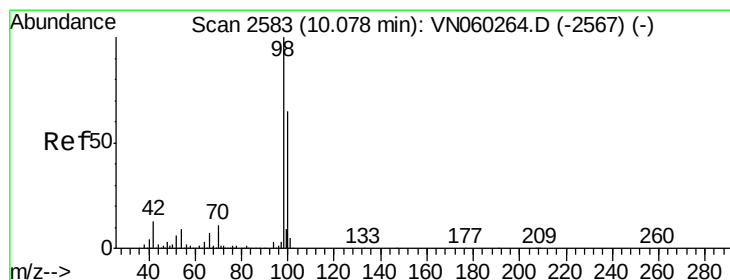
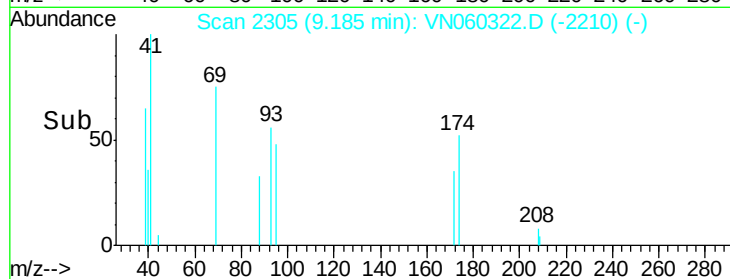
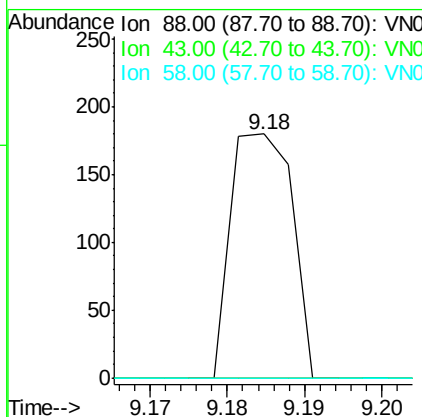
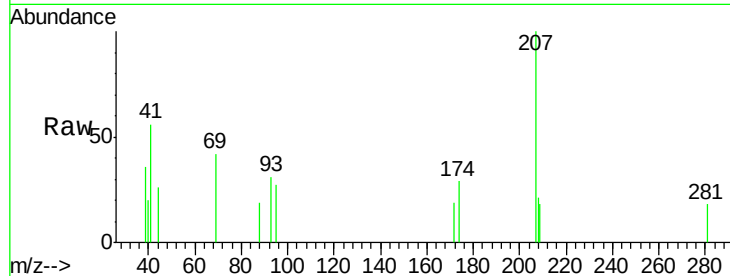
#49
1,4-Dioxane
Concen: 3.010 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. 0.01 min
Lab File: VN060322.D
Acq: 3 Mar 2020 12:26

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

Tot Ion	Ratio	Lower	Upper
88	100		
43	0.0	30.4	45.6#
58	0.0	57.0	85.6#

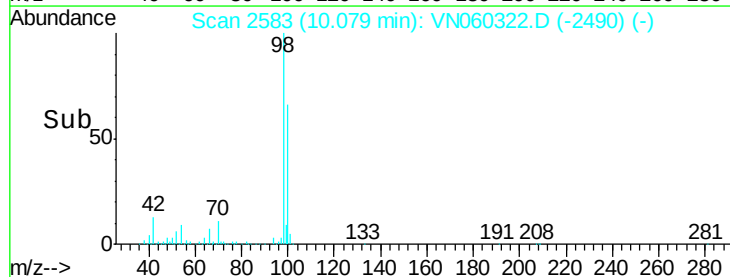
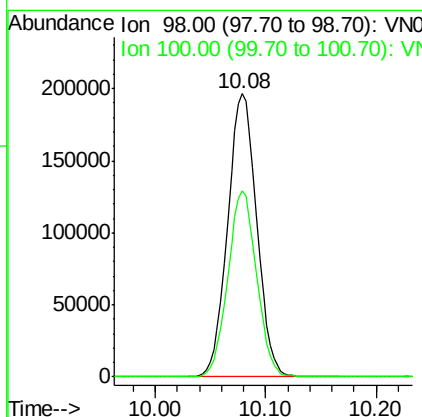
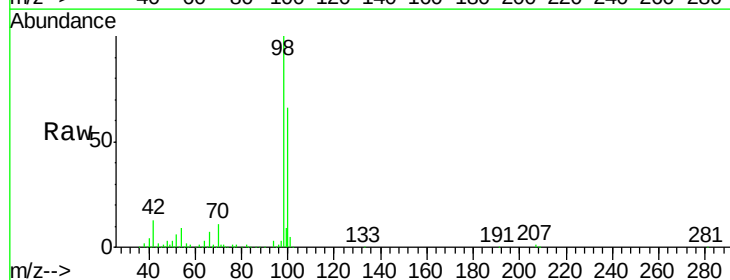
Manual Integrations
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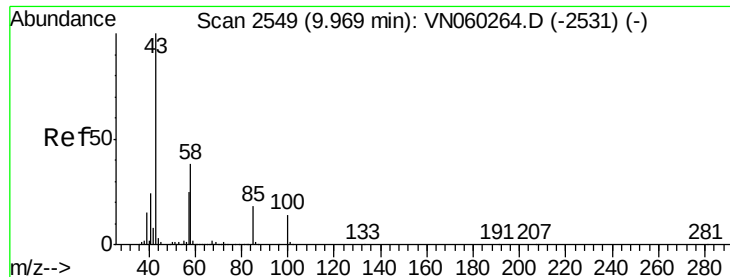
MMDadoda
3/4/2020 10:44:16 AM



#50
Toluene-d8
Concen: 46.567 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060322.D
Acq: 3 Mar 2020 12:26

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.2	78.2





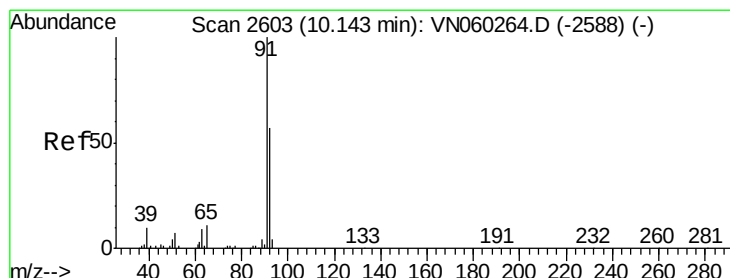
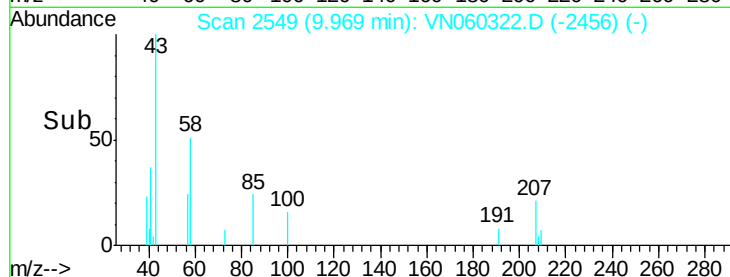
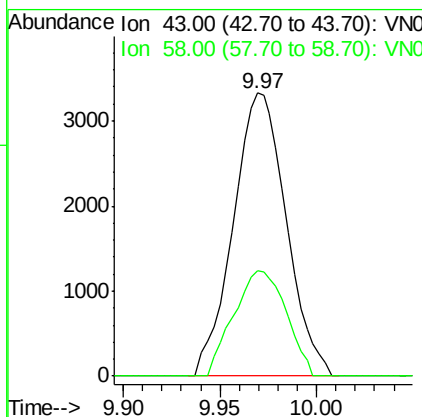
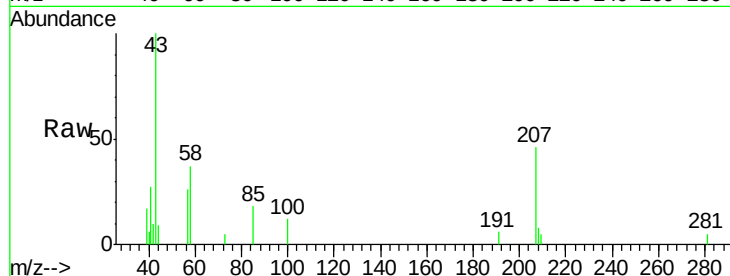
#51
4-Methyl-2-Pentanone
Concen: 2.157 ug/l
RT: 9.97 min Scan# 2549
Delta R.T. 0.00 min
Lab File: VN060322.D
Acq: 3 Mar 2020 12:26

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

Tot Ion	Ratio	Lower	Upper
43	100		
58	36.8	30.9	46.3

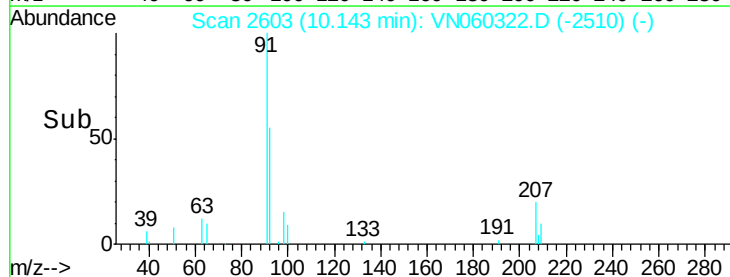
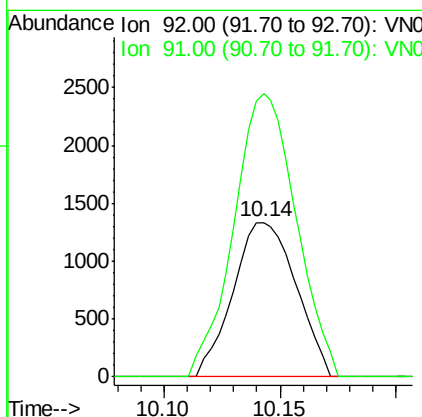
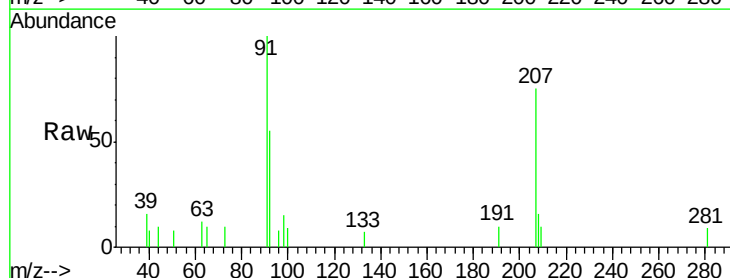
Manual Integrations
APPROVED

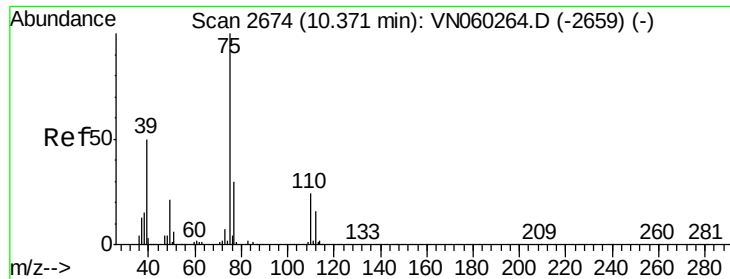
MMDadoda
3/4/2020 10:44:16 AM



#52
Toluene
Concen: 0.440 ug/l
RT: 10.14 min Scan# 2603
Delta R.T. 0.00 min
Lab File: VN060322.D
Acq: 3 Mar 2020 12:26

Tgt Ion	Ratio	Lower	Upper
92	100		
91	181.3	138.1	207.1





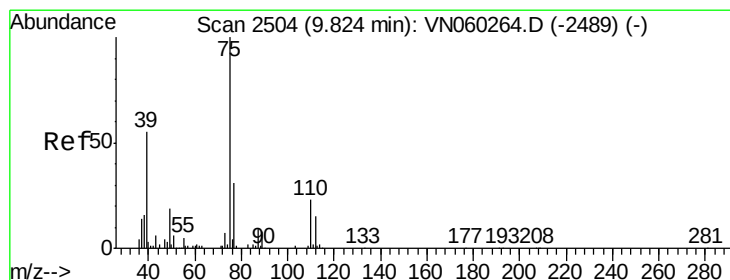
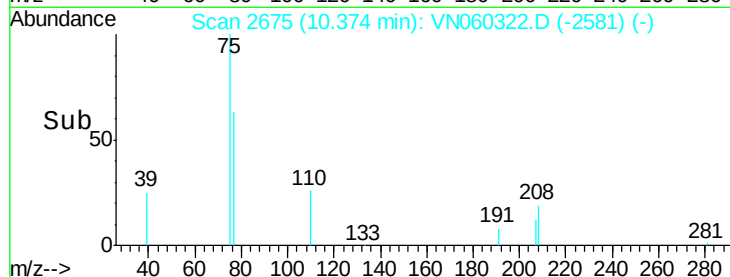
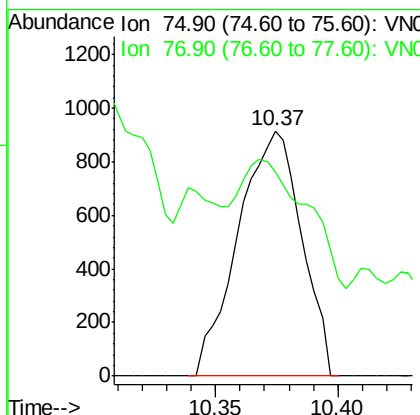
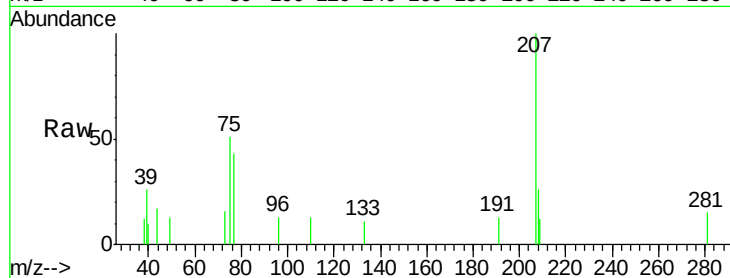
#53
t-1,3-Dichloropropene
Concen: 0.429 ug/l
RT: 10.37 min Scan# 2675
Delta R.T. 0.00 min
Lab File: VN060322.D
Acq: 3 Mar 2020 12:26

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

Tot Ion: 75 Resp: 1649
Ion Ratio Lower Upper
75 100
77 43.6 24.8 37.2#

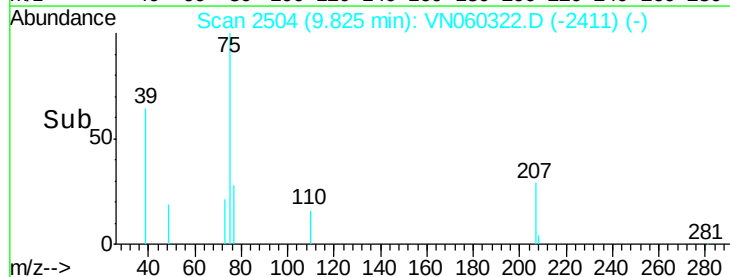
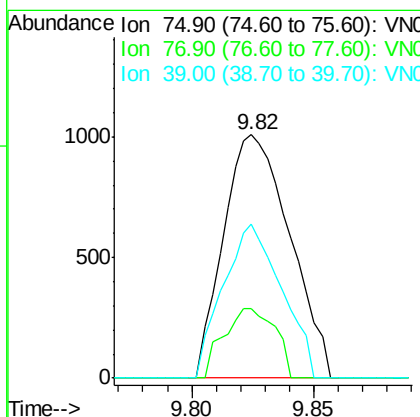
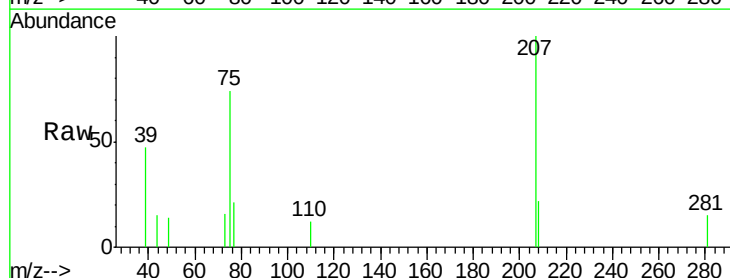
Manual Integrations
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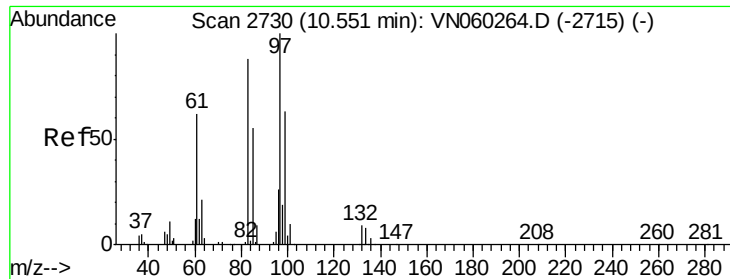
MMDadoda
3/4/2020 10:44:16 AM



#54
cis-1,3-Dichloropropene
Concen: 0.476 ug/l
RT: 9.82 min Scan# 2504
Delta R.T. 0.00 min
Lab File: VN060322.D
Acq: 3 Mar 2020 12:26

Tgt Ion: 75 Resp: 1899
Ion Ratio Lower Upper
75 100
77 28.4 24.8 37.2
39 63.5 43.8 65.8





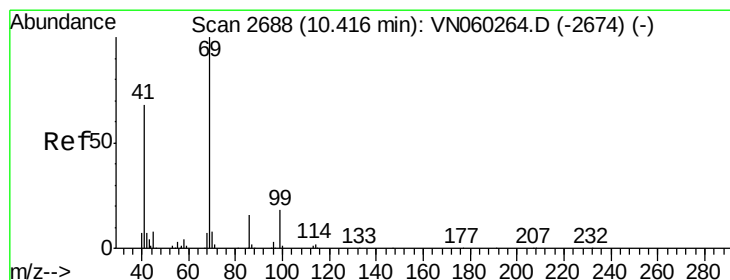
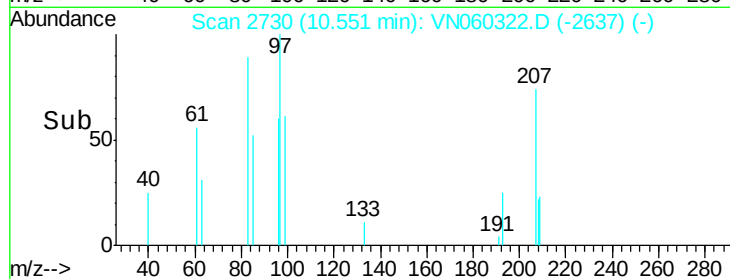
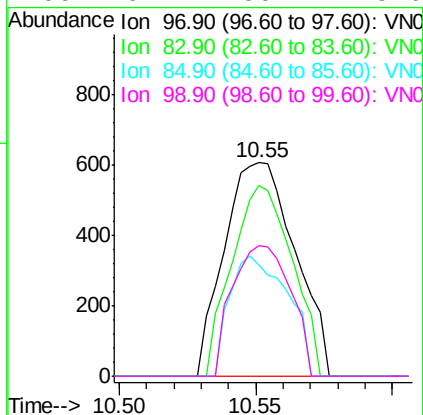
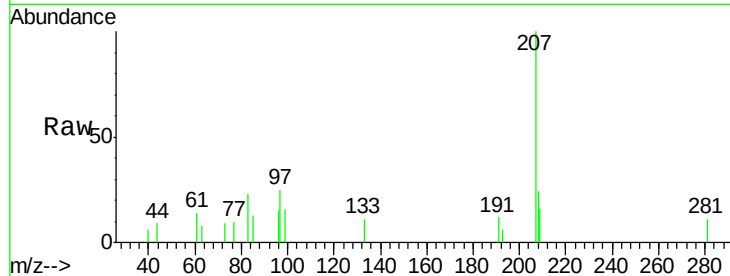
#55
 1,1,2-Trichloroethane
 Concen: 0.476 ug/l
 RT: 10.55 min Scan# 2730
 Delta R.T. 0.00 min
 Lab File: VN060322.D
 Acq: 3 Mar 2020 12:26

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

Tot Ion	Ratio	Lower	Upper
97	100		
83	89.3	70.0	105.0
85	52.0	44.0	66.0
99	61.4	50.4	75.6

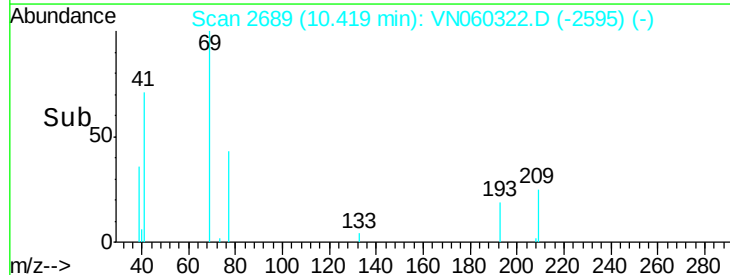
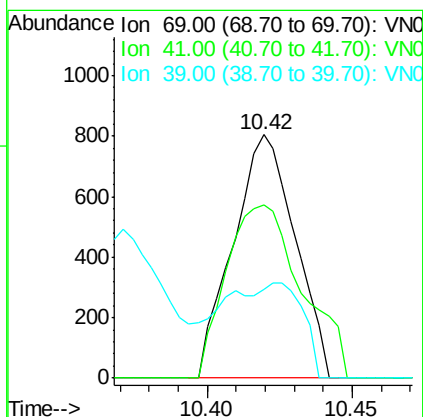
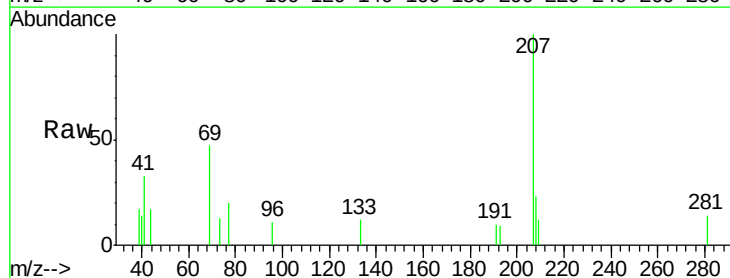
Manual Integrations
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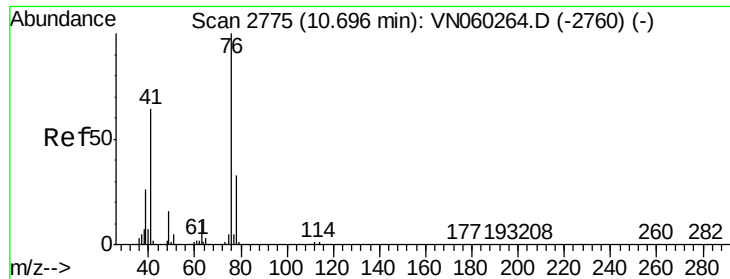
MMDadoda
 3/4/2020 10:44:16 AM



#56
 Ethyl methacrylate
 Concen: 0.360 ug/l
 RT: 10.42 min Scan# 2689
 Delta R.T. 0.00 min
 Lab File: VN060322.D
 Acq: 3 Mar 2020 12:26

Tgt Ion	Ratio	Lower	Upper
69	100		
41	87.2	54.1	81.1#
39	5.4	32.5	48.7#





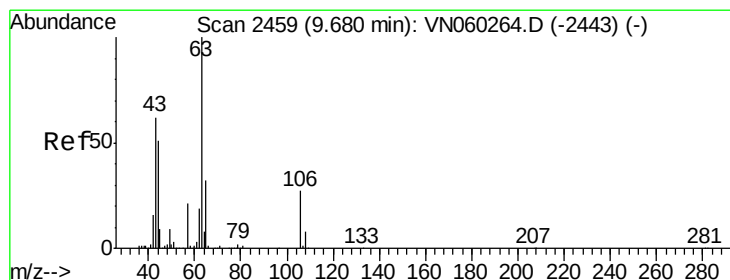
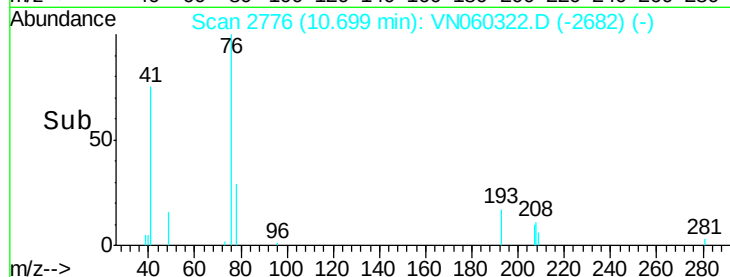
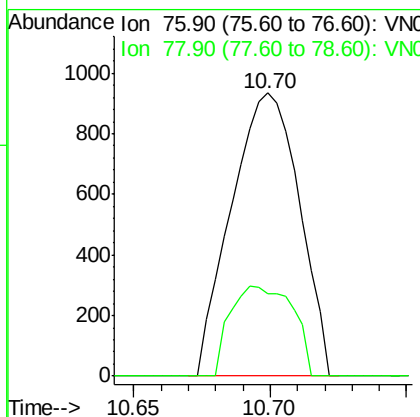
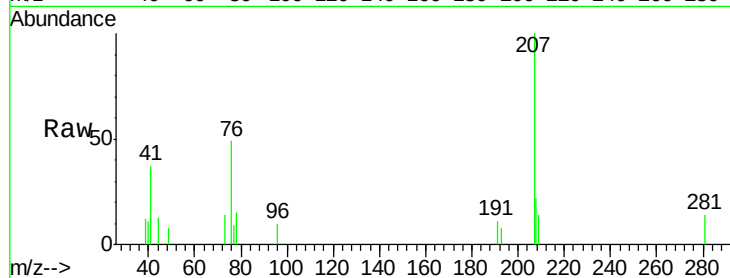
#57
 1,3-Dichloropropane
 Concen: 0.431 ug/l
 RT: 10.70 min Scan# 2776
 Delta R.T. 0.00 min
 Lab File: VN060322.D
 Acq: 3 Mar 2020 12:26

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

Tot Ion	Ratio	Lower	Upper
76	100		
78	29.3	26.2	39.2

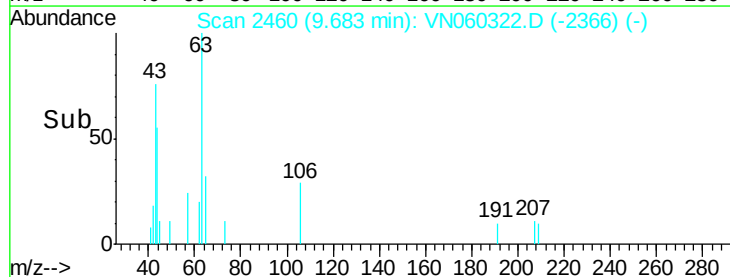
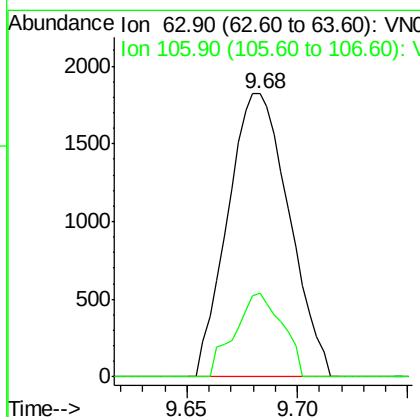
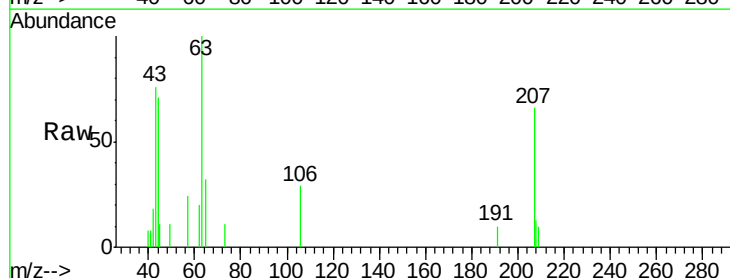
Manual Integrations
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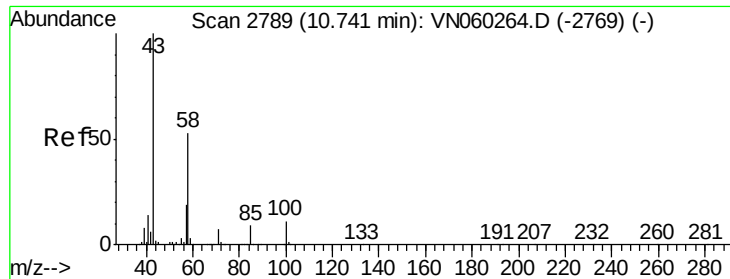
MMDadoda
 3/4/2020 10:44:16 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 2.030 ug/l
 RT: 9.68 min Scan# 2460
 Delta R.T. 0.00 min
 Lab File: VN060322.D
 Acq: 3 Mar 2020 12:26

Tgt Ion	Ratio	Lower	Upper
63	100		
106	22.9	21.1	31.7





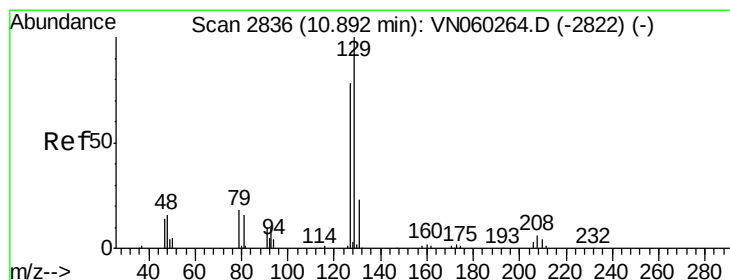
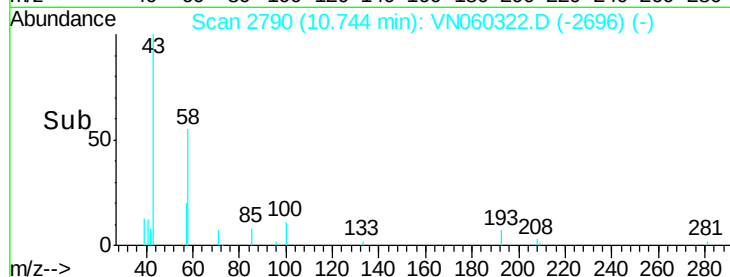
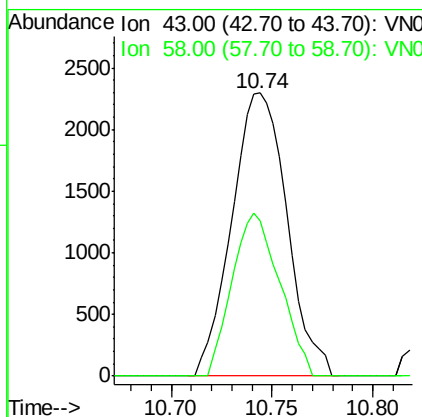
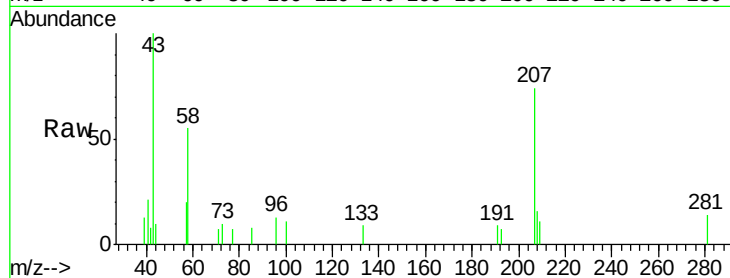
#59
2-Hexanone
Concen: 2.036 ug/l
RT: 10.74 min Scan# 2790
Delta R.T. 0.00 min
Lab File: VN060322.D
Acq: 3 Mar 2020 12:26

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

Tot Ion	43	Resp	4391
Ion Ratio	100	Lower	Upper
58	49.7	26.5	79.5

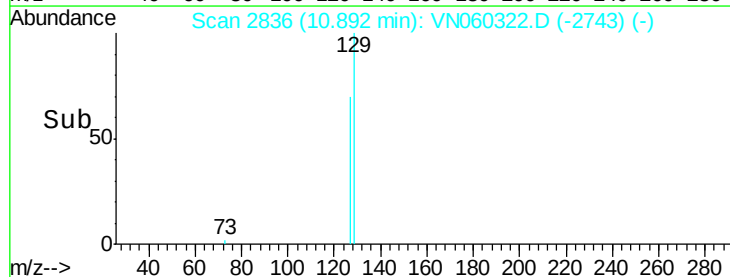
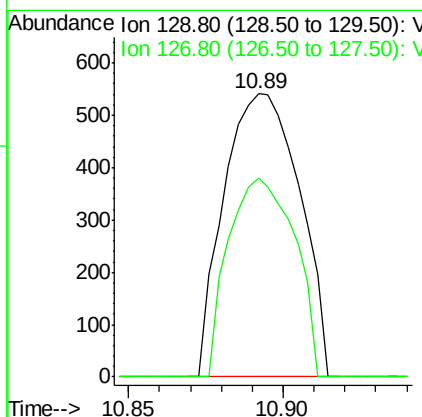
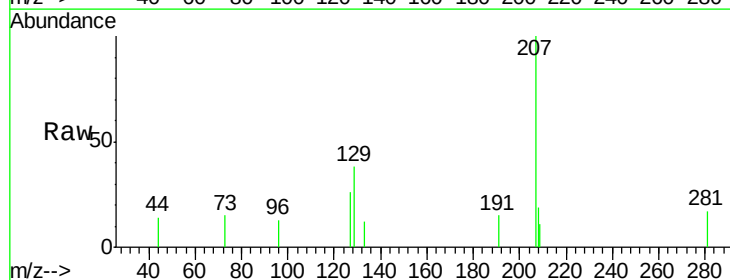
Manual Integrations
APPROVED

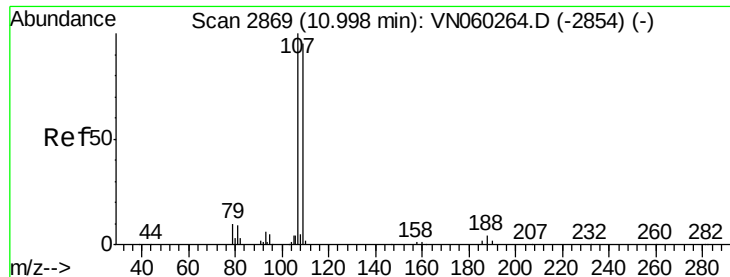
MMDadoda
3/4/2020 10:44:16 AM



#60
Dibromochloromethane
Concen: 0.394 ug/l
RT: 10.89 min Scan# 2836
Delta R.T. 0.00 min
Lab File: VN060322.D
Acq: 3 Mar 2020 12:26

Tgt Ion	129	Resp	920
Ion Ratio	100	Lower	Upper
127	62.0	38.9	116.7





#61

1,2-Dibromoethane

Concen: 0.383 ug/l

RT: 11.00 min Scan# 2869

Delta R.T. 0.00 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion: 107 Resp: 859

Ion Ratio Lower Upper

107 100

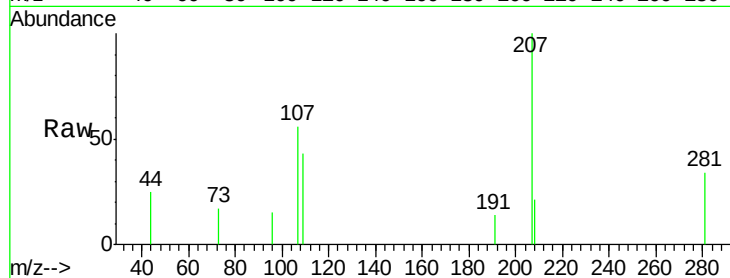
109 93.5 76.8 115.2

Manual Integrations

APPROVED

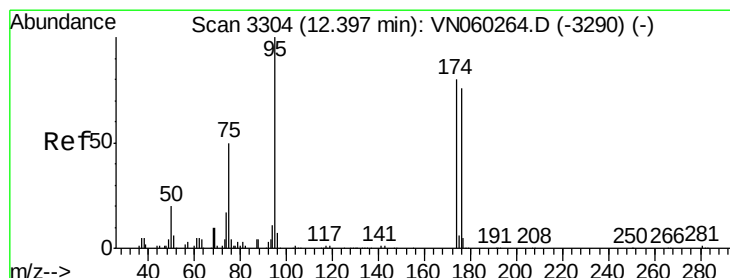
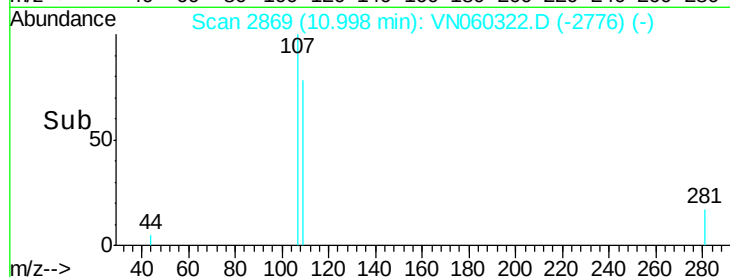
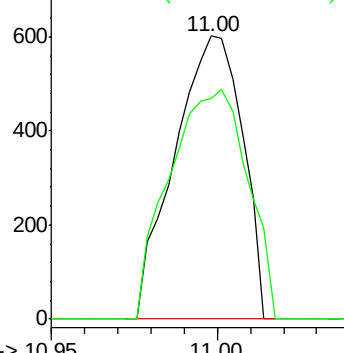
MMDadoda

3/4/2020 10:44:16 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 43.304 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

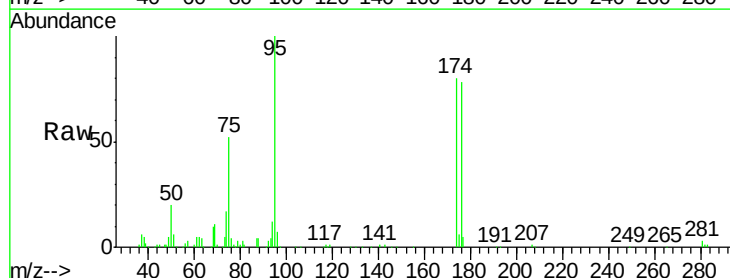
Tgt Ion: 95 Resp: 126475

Ion Ratio Lower Upper

95 100

174 79.6 0.0 159.2

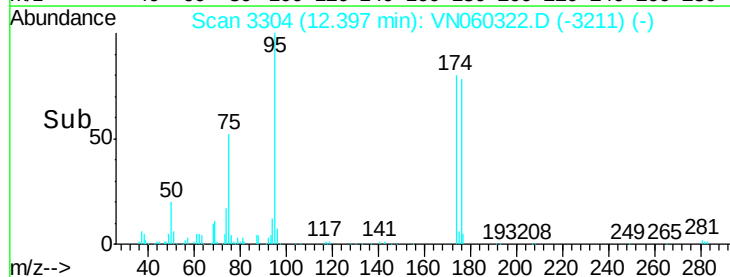
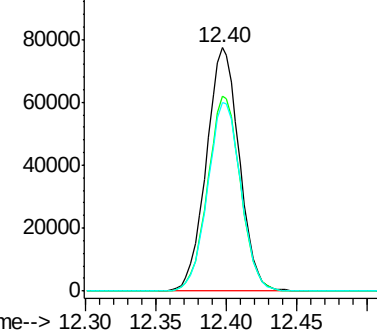
176 78.3 0.0 153.8

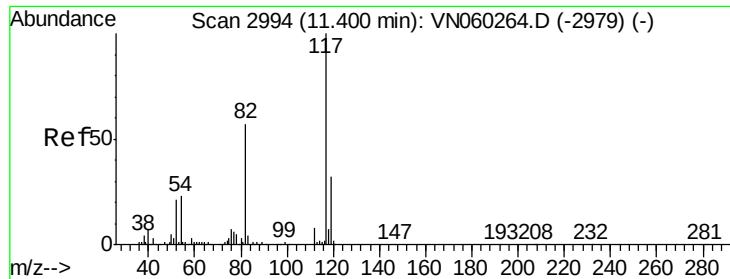


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





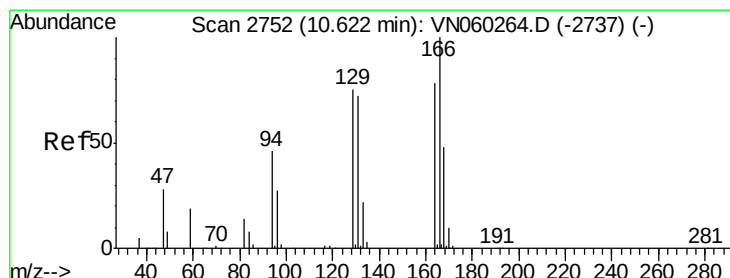
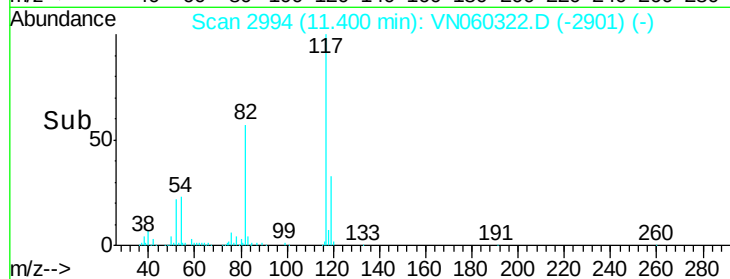
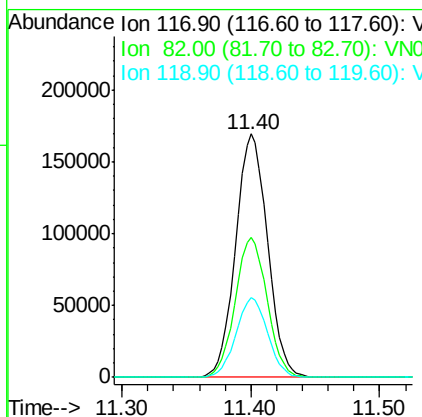
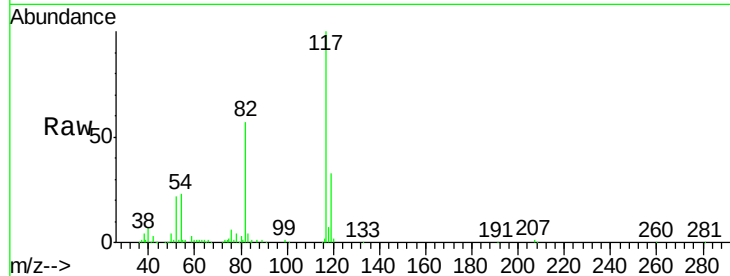
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060322.D
Acq: 3 Mar 2020 12:26

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

Tot Ion	Ratio	Resp	Lower	Upper
117	100	291098		
82	57.5	45.8	68.6	
119	32.7	25.8	38.8	

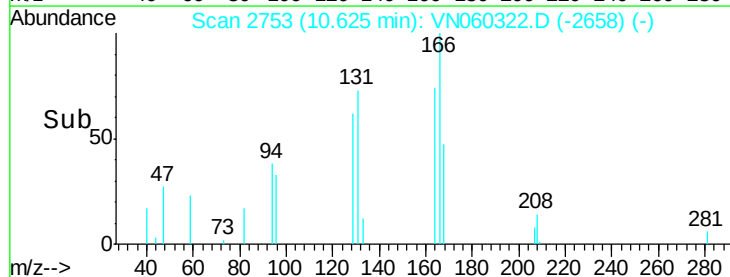
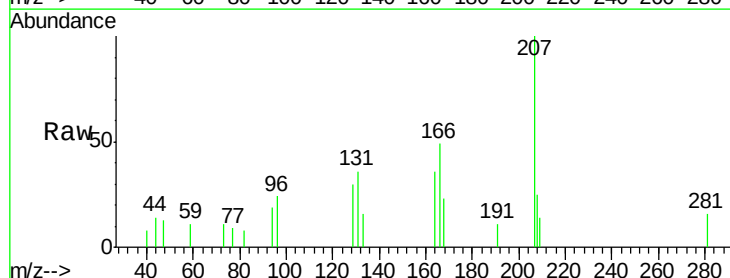
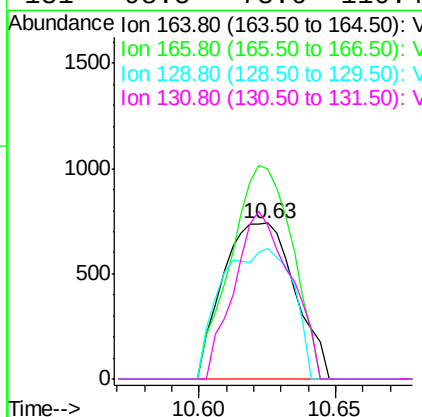
Manual Integrations
APPROVED

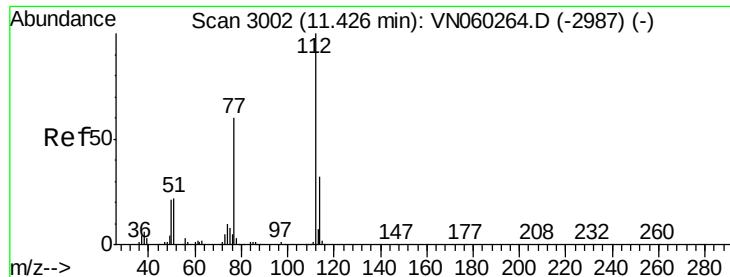
MMDadoda
3/4/2020 10:44:16 AM



#64
Tetrachloroethene
Concen: 0.523 ug/l
RT: 10.63 min Scan# 2753
Delta R.T. 0.00 min
Lab File: VN060322.D
Acq: 3 Mar 2020 12:26

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	1353		
166	134.5	102.0	153.0	
129	83.6	76.4	114.6	
131	98.5	73.6	110.4	





#65

Chlorobenzene

Concen: 0.448 ug/l

RT: 11.43 min Scan# 3002

Delta R.T. 0.00 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion:112 Resp: 2631

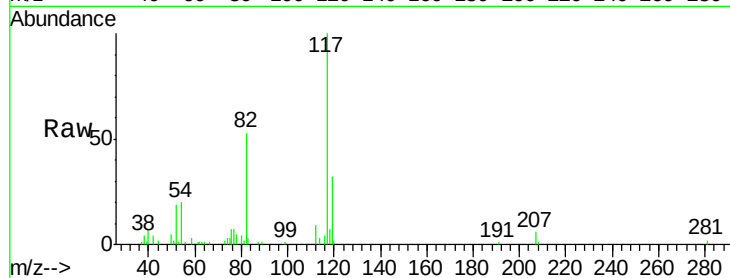
Ion Ratio Lower Upper

112 100

114 34.4 25.4 38.0

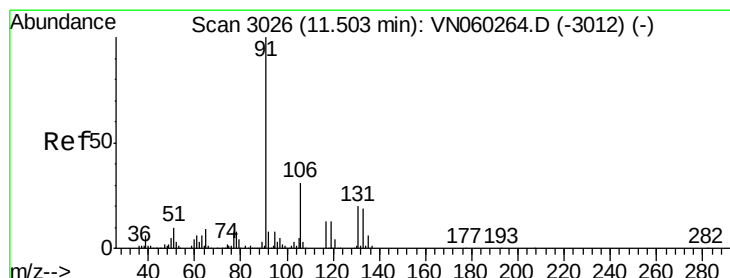
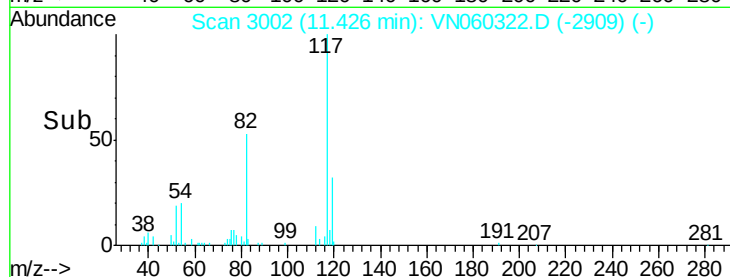
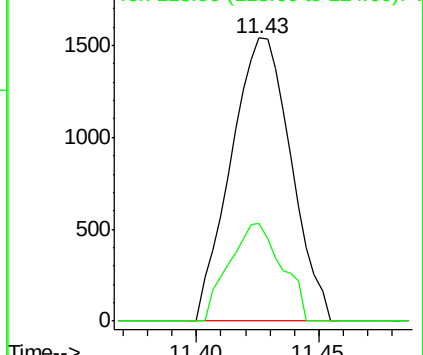
Manual Integrations
APPROVED

MMDadoda
3/4/2020 10:44:16 AM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 0.380 ug/l

RT: 11.50 min Scan# 3026

Delta R.T. 0.00 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

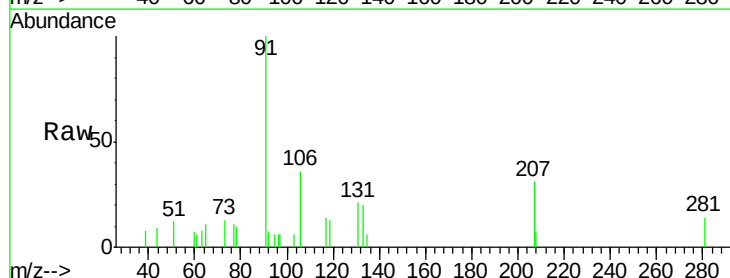
Tgt Ion:131 Resp: 825

Ion Ratio Lower Upper

131 100

133 101.6 47.7 143.1

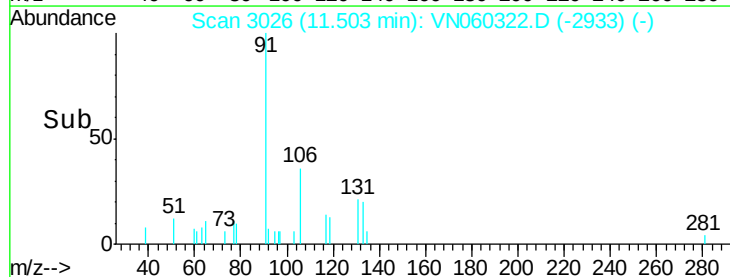
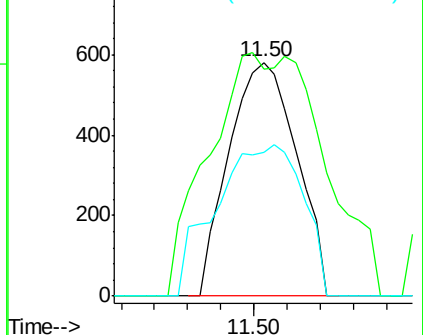
119 0.0 33.2 99.6#

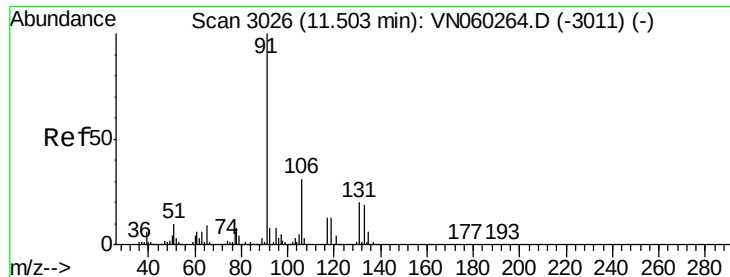


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





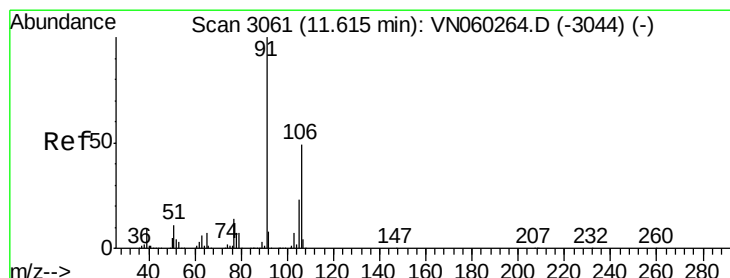
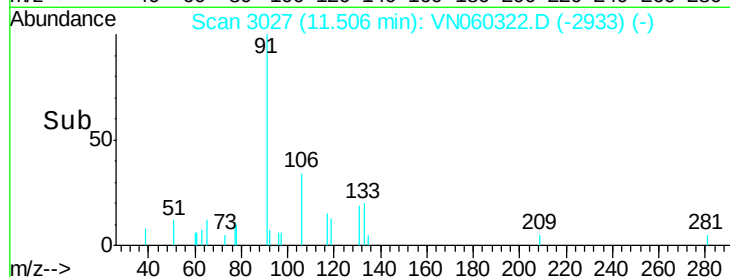
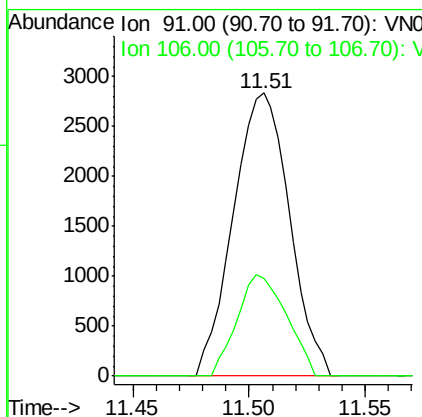
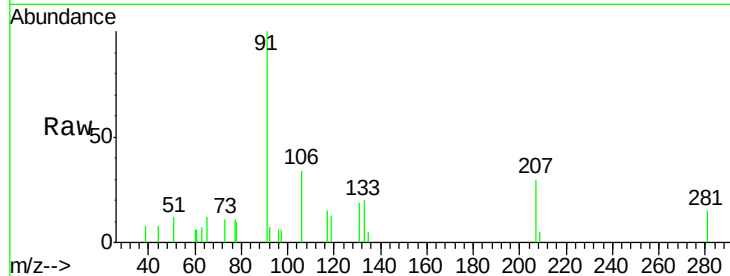
#67
Ethyl Benzene
Concen: 0.446 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. 0.00 min
Lab File: VN060322.D
Acq: 3 Mar 2020 12:26

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

Tot Ion: 91 Resp: 4778
Ion Ratio Lower Upper
91 100
106 34.4 24.7 37.1

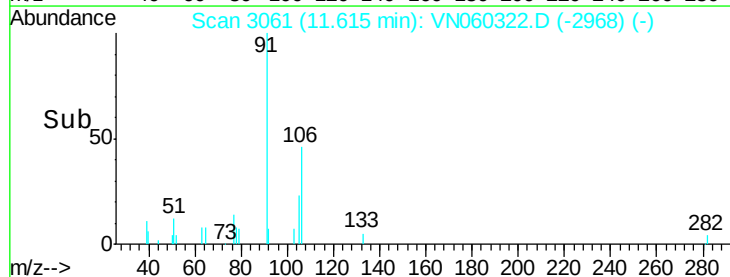
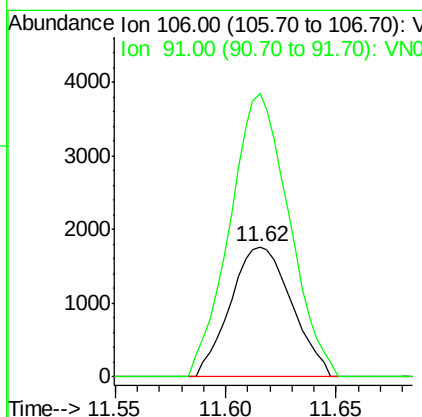
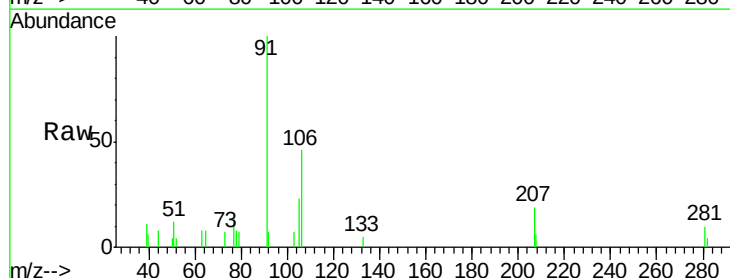
Manual Integrations
APPROVED

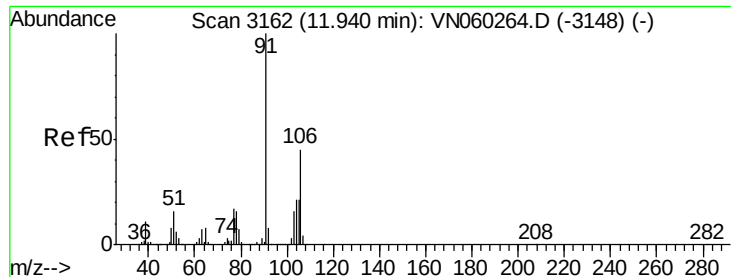
MMDadoda
3/4/2020 10:44:16 AM



#68
m/p-Xylenes
Concen: 0.841 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. 0.00 min
Lab File: VN060322.D
Acq: 3 Mar 2020 12:26

Tgt Ion: 106 Resp: 3396
Ion Ratio Lower Upper
106 100
91 210.8 164.5 246.7





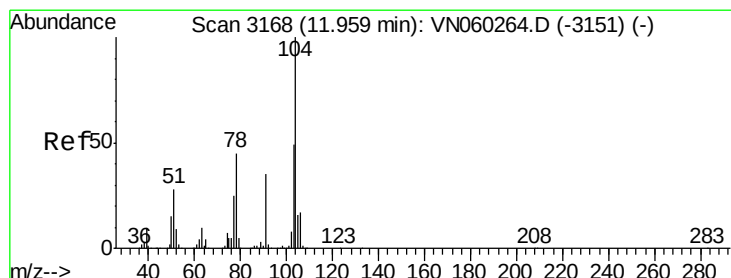
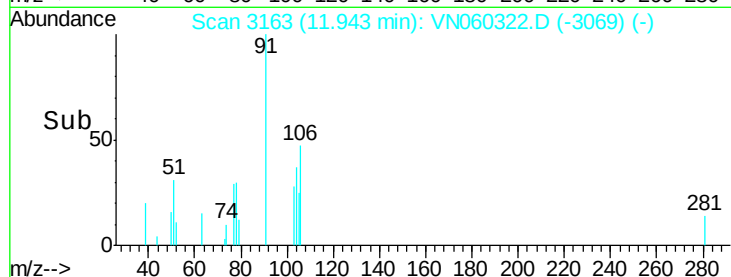
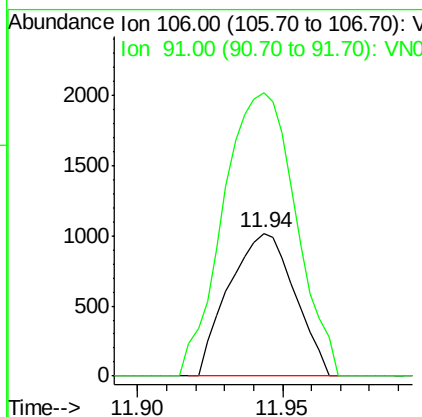
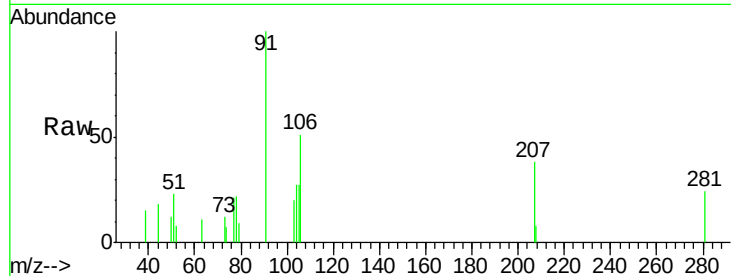
#69
o-Xylene
Concen: 0.417 ug/l
RT: 11.94 min Scan# 3163
Delta R.T. 0.00 min
Lab File: VN060322.D
Acq: 3 Mar 2020 12:26

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

Tot Ion:106 Resp: 1605
Ion Ratio Lower Upper
106 100
91 218.4 109.5 328.4

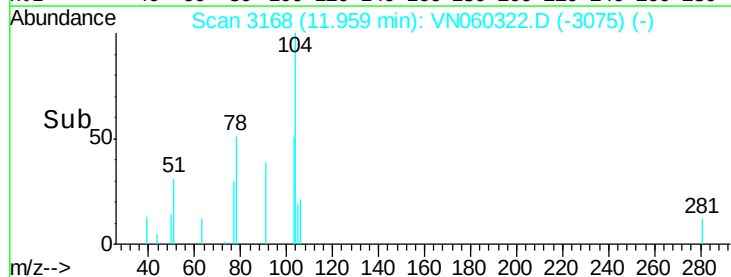
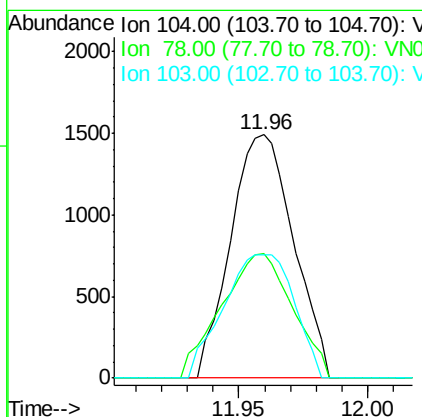
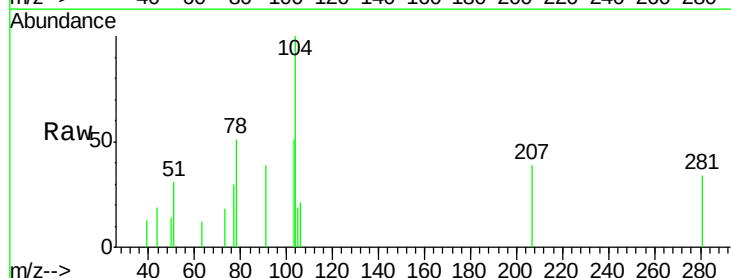
Manual Integrations
APPROVED

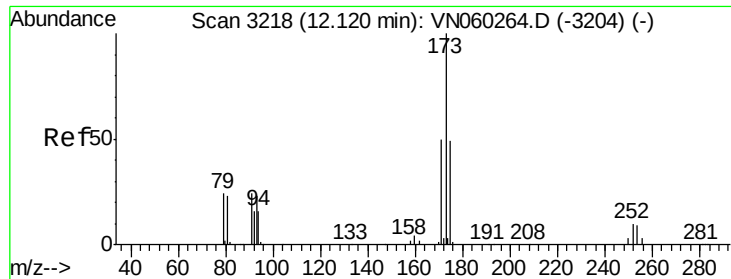
MMDadoda
3/4/2020 10:44:16 AM



#70
Styrene
Concen: 0.400 ug/l
RT: 11.96 min Scan# 3168
Delta R.T. 0.00 min
Lab File: VN060322.D
Acq: 3 Mar 2020 12:26

Tgt Ion:104 Resp: 2535
Ion Ratio Lower Upper
104 100
78 58.1 41.2 61.8
103 56.8 43.9 65.9





#71

Bromoform

Concen: 0.310 ug/l

RT: 12.12 min Scan# 3218

Delta R.T. 0.00 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

Instrument :

MSVOA_N

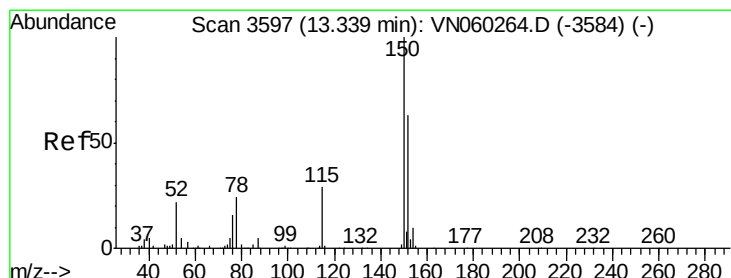
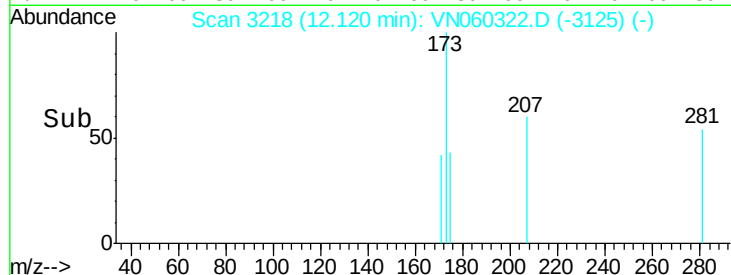
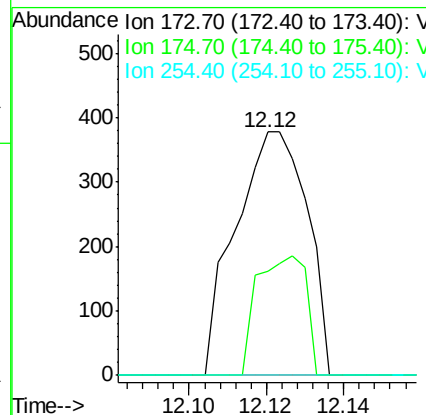
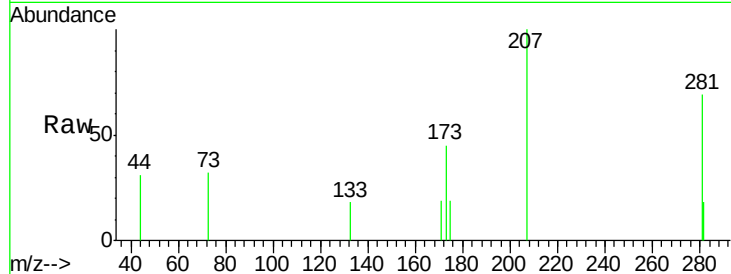
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion:	173	Resp:	486
Ion Ratio	Lower	Upper	
173	100		
175	0.0	24.1	72.2#
254	0.0	0.0	0.0

Manual Integrations
APPROVED

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3/4/2020 10:44:16 AM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

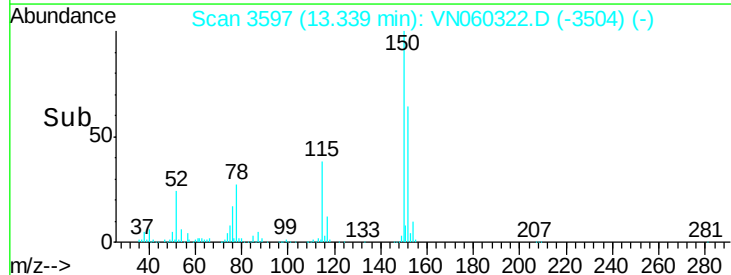
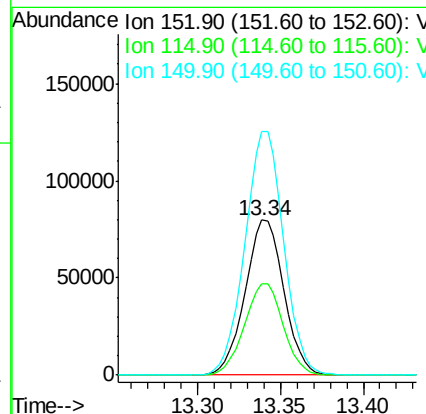
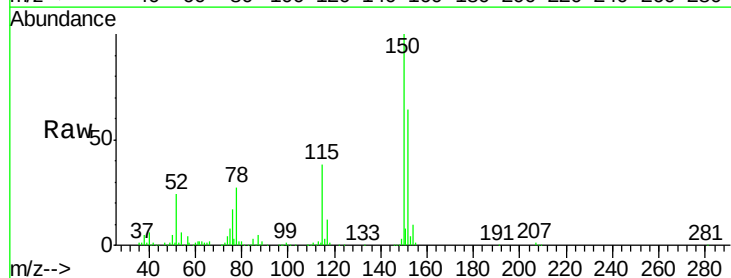
RT: 13.34 min Scan# 3597

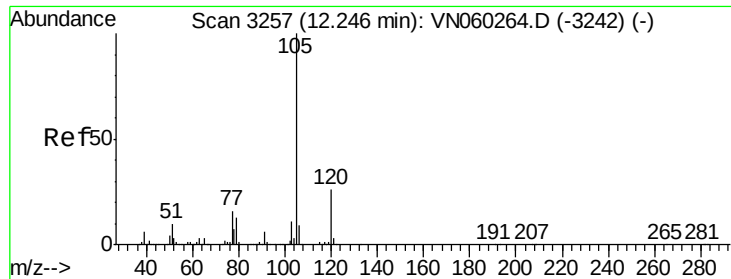
Delta R.T. 0.00 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

Tgt Ion:	152	Resp:	129092
Ion Ratio	Lower	Upper	
152	100		
115	59.5	30.0	90.0
150	157.9	0.0	349.6





#73

Isopropylbenzene

Concen: 0.463 ug/l

RT: 12.25 min Scan# 3257

Delta R.T. 0.00 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion: 105 Resp: 4431

Ion Ratio Lower Upper

105 100

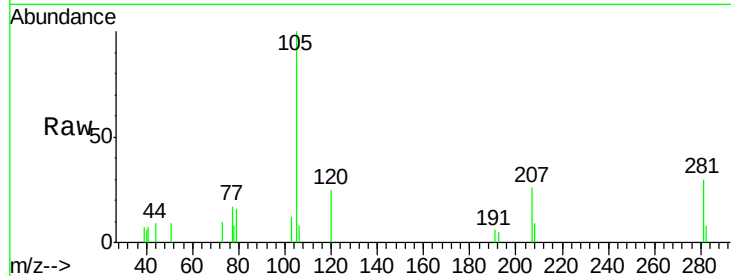
120 26.3 13.0 38.9

Manual Integrations

APPROVED

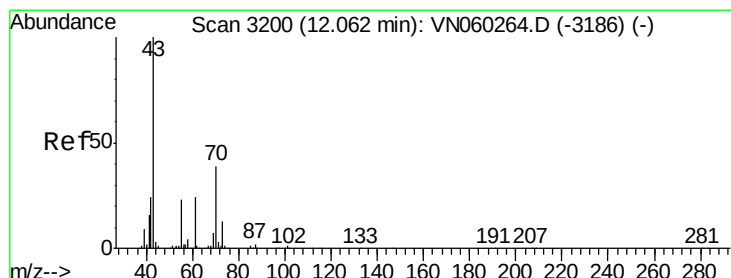
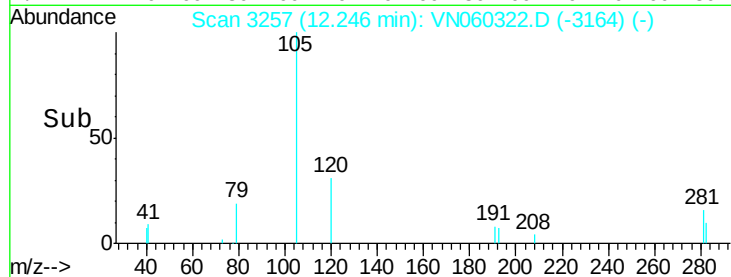
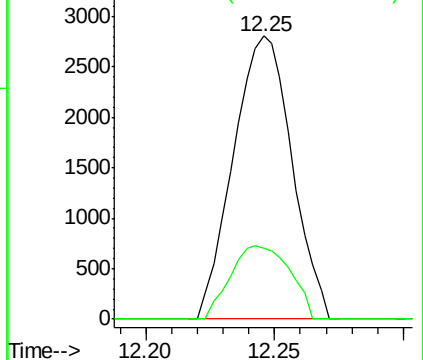
MMDadoda

3/4/2020 10:44:16 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 0.481 ug/l

RT: 12.06 min Scan# 3200

Delta R.T. 0.00 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

Tgt Ion: 43 Resp: 2012

Ion Ratio Lower Upper

43 100

70 33.4 32.2 48.2

55 15.3 18.2 27.4#

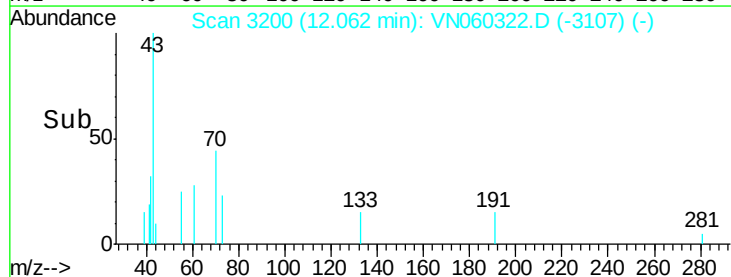
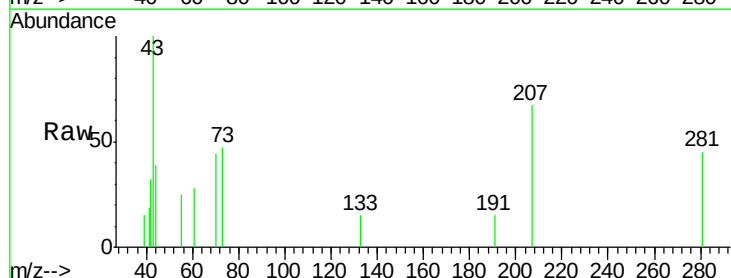
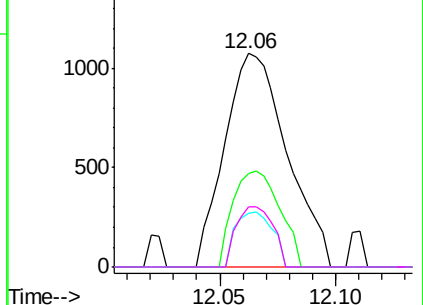
61 16.5 19.2 28.8#

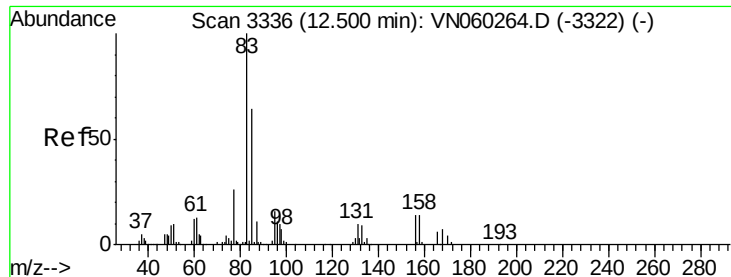
Abundance Ion 43.00 (42.70 to 43.70): V

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: 0.455 ug/l

RT: 12.50 min Scan# 3336

Delta R.T. 0.00 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

Instrument :

MSVOA_N

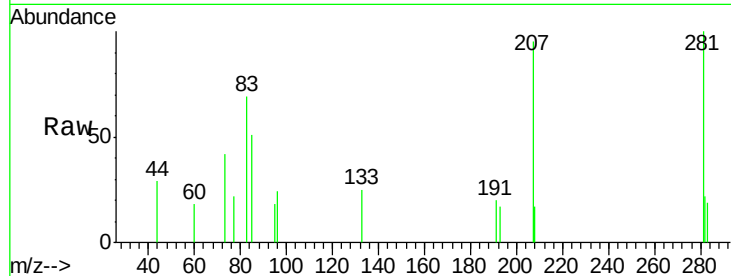
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion:	83	Resp:	1183
Ion Ratio	Lower	Upper	
83	100		
131	0.0	5.1	15.3#
85	67.1	32.3	96.8

Manual Integrations
APPROVED

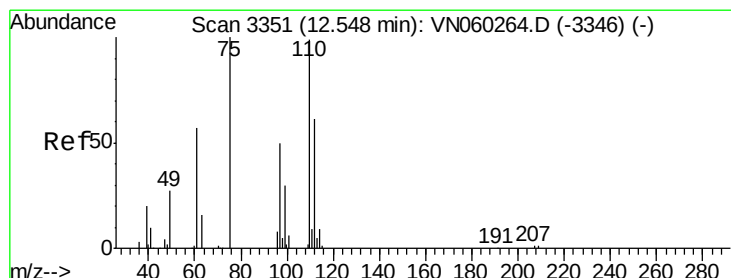
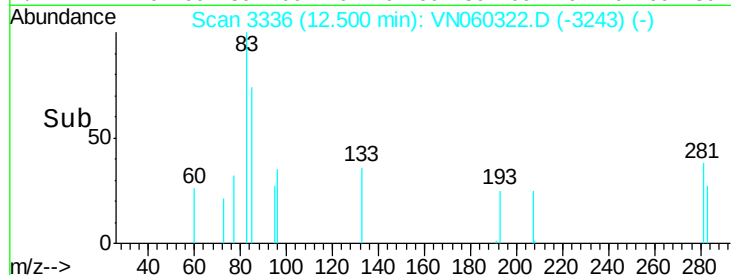
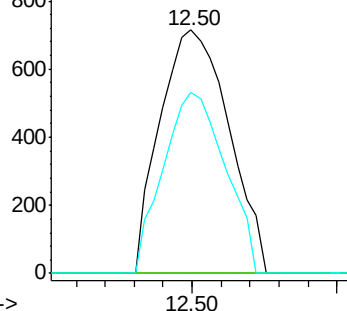
MMDadoda
3/4/2020 10:44:16 AM



Abundance Ion 82.90 (82.60 to 83.60): VN060322.D (-3243) (-)

Ion 130.80 (130.50 to 131.50): VN060322.D (-3243) (-)

Ion 84.90 (84.60 to 85.60): VN060322.D (-3243) (-)



#76

1,2,3-Trichloropropane

Concen: 0.530 ug/l m

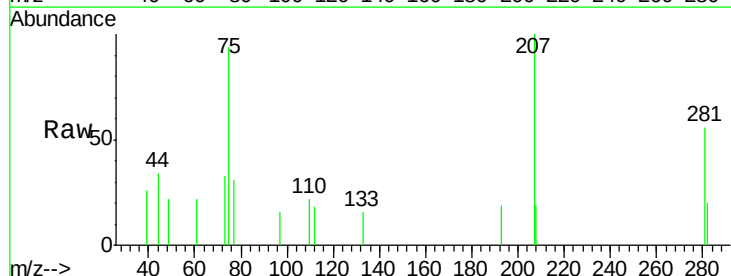
RT: 12.55 min Scan# 3352

Delta R.T. 0.00 min

Lab File: VN060322.D

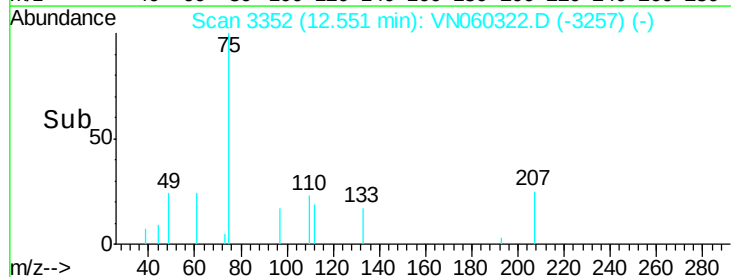
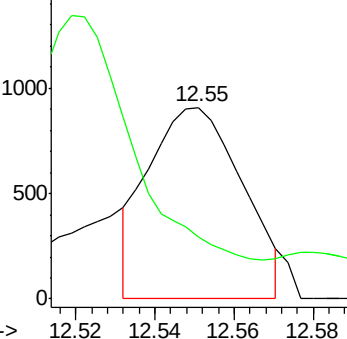
Acq: 3 Mar 2020 12:26

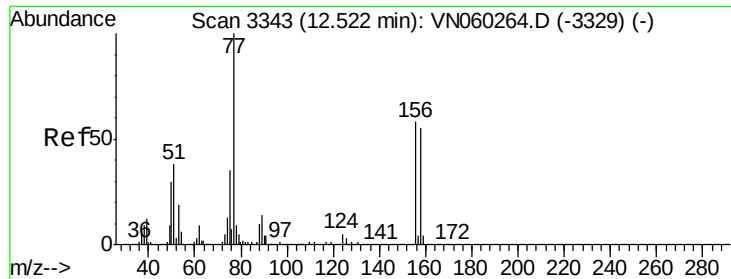
Tgt Ion:	75	Resp:	1501
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN060322.D (-3257) (-)

Ion 77.00 (76.70 to 77.70): VN060322.D (-3257) (-)





#77

Bromobenzene

Concen: 0.404 ug/l

RT: 12.52 min Scan# 3342

Delta R.T. -0.00 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

Instrument :

MSVOA_N

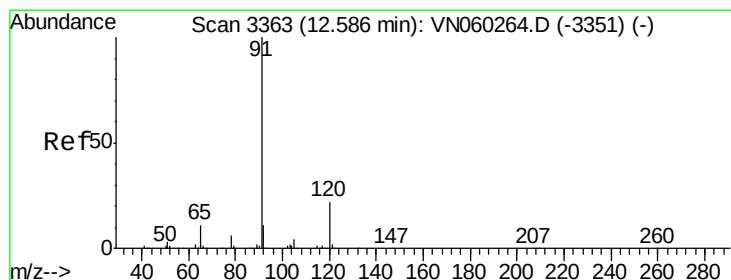
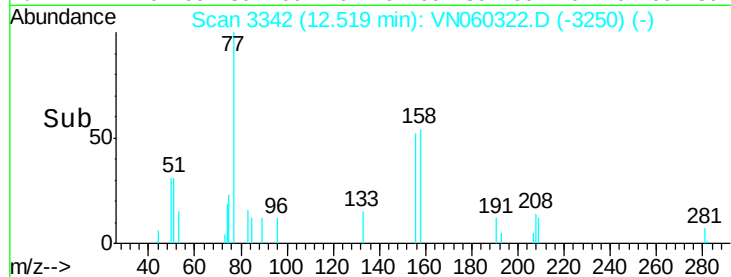
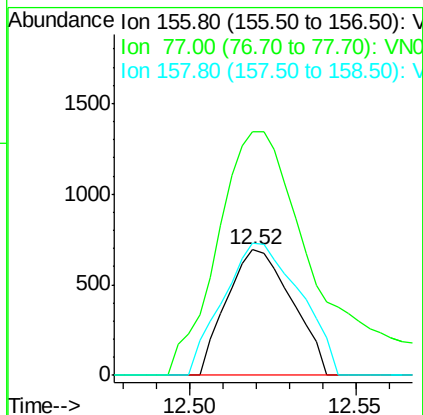
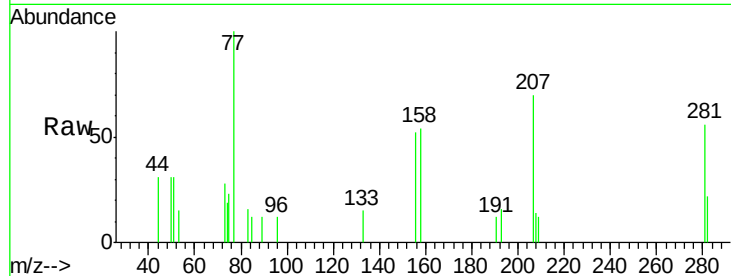
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion:	156	Resp:	948
Ion	Ratio	Lower	Upper
156	100		
77	284.5	106.1	318.3
158	124.3	48.3	144.8

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#78

n-propylbenzene

Concen: 0.465 ug/l

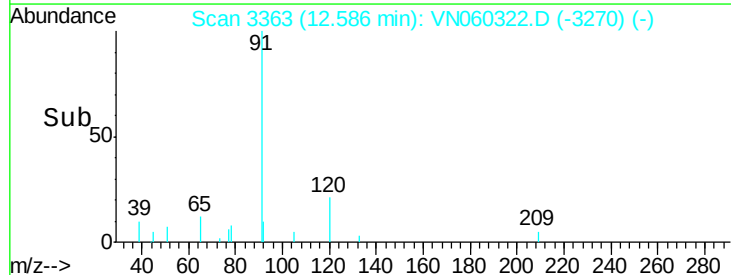
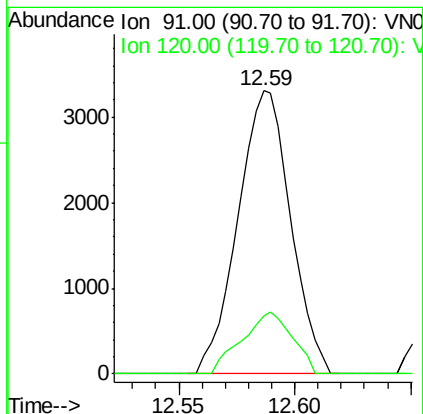
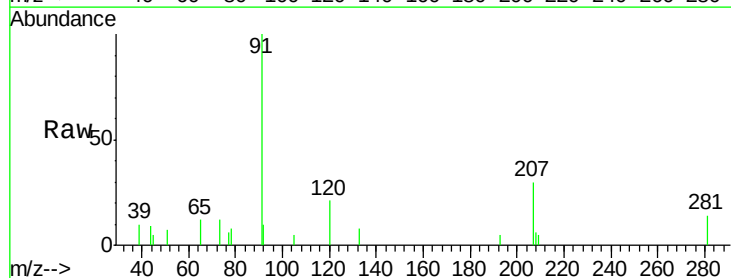
RT: 12.59 min Scan# 3363

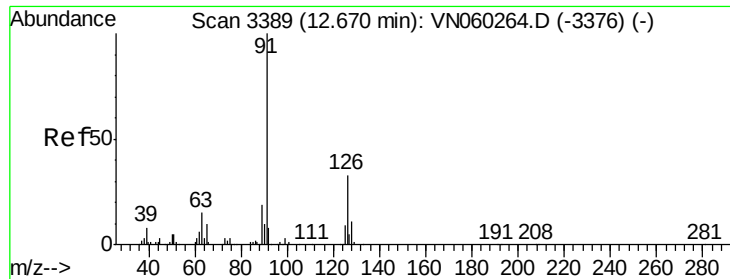
Delta R.T. 0.00 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

Tgt Ion:	91	Resp:	5214
Ion	Ratio	Lower	Upper
91	100		
120	21.1	11.3	33.9





#79

2-Chlorotoluene

Concen: 0.491 ug/l

RT: 12.67 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion: 91 Resp: 3240

Ion Ratio Lower Upper

91 100

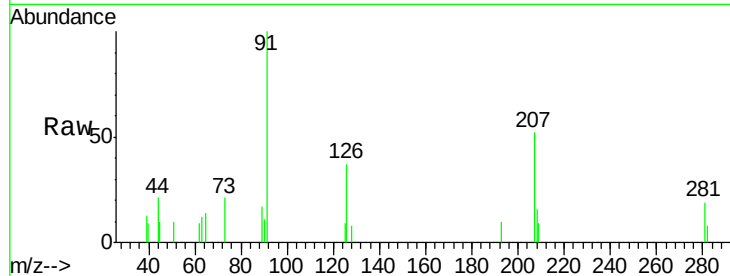
126 33.0 16.6 49.8

Manual Integrations

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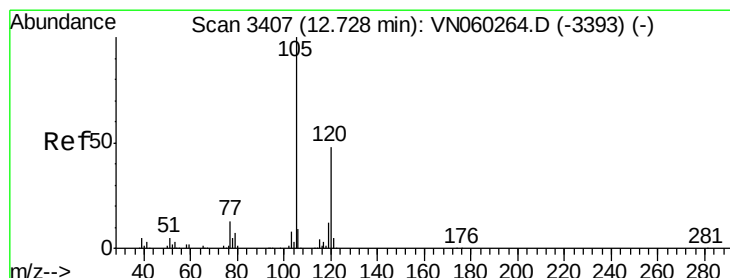
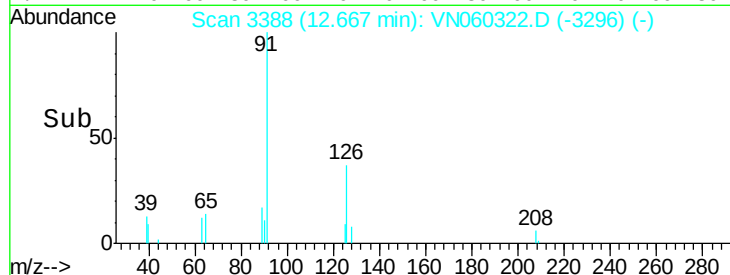
Abundance Ion 91.00 (90.70 to 91.70): VN060322.D (-3376) (-)

Ion 125.90 (125.60 to 126.60): VN060322.D (-3376) (-)

12.67

12.65 12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.455 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN060322.D

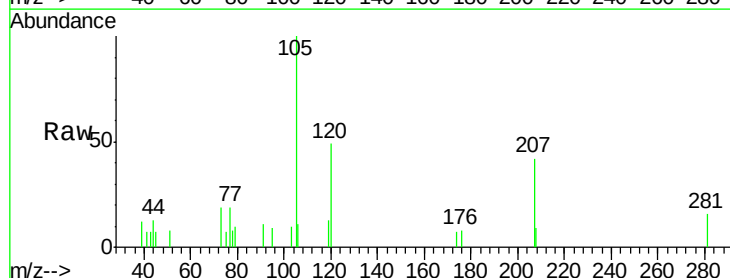
Acq: 3 Mar 2020 12:26

Tgt Ion: 105 Resp: 3669

Ion Ratio Lower Upper

105 100

120 52.0 24.1 72.4



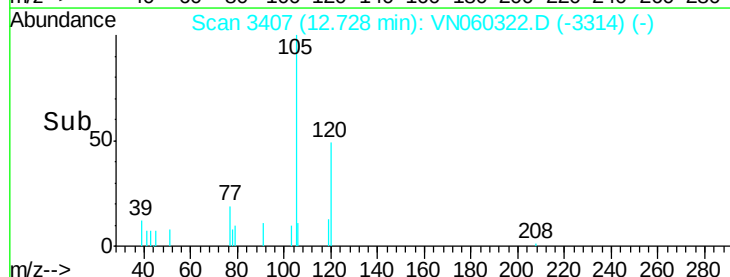
Abundance Ion 105.00 (104.70 to 105.70): VN060322.D (-3393) (-)

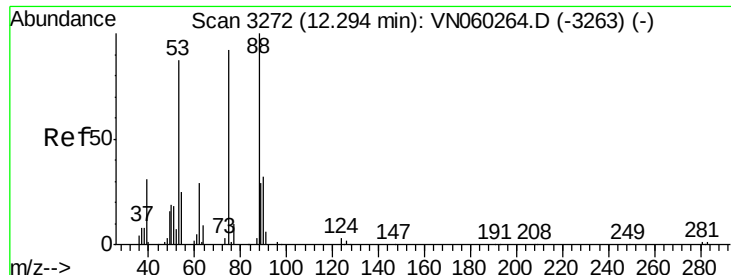
Ion 120.00 (119.70 to 120.70): VN060322.D (-3393) (-)

12.73

12.70 12.75

Time-->





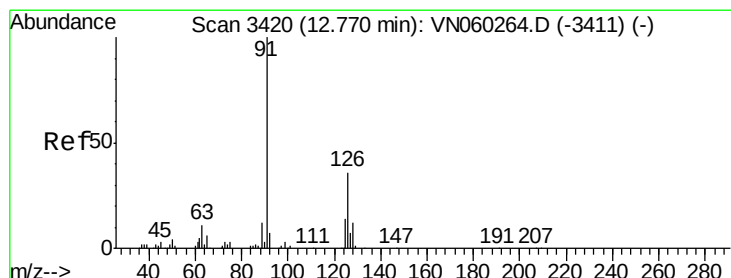
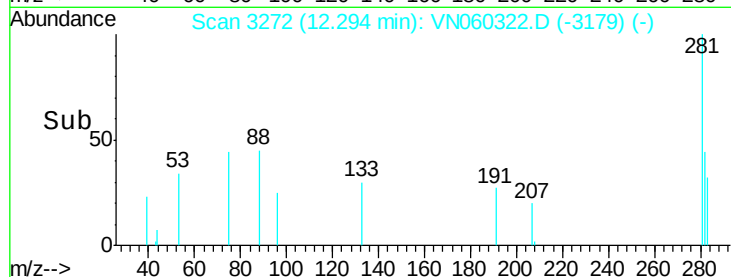
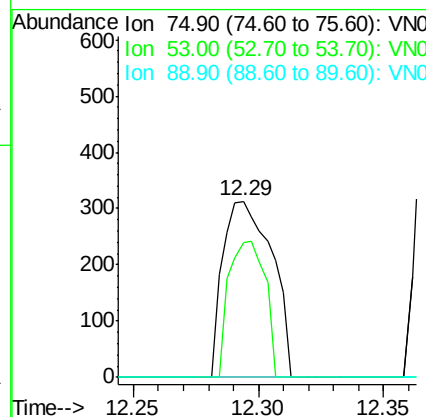
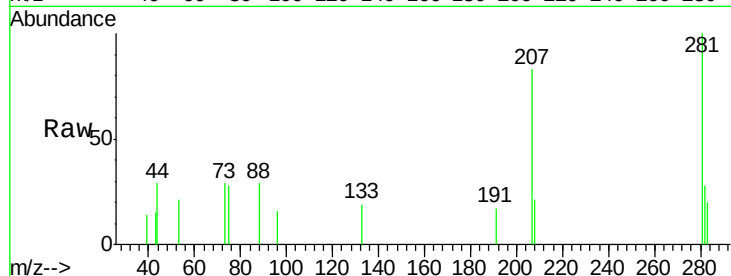
#81
trans-1,4-Dichloro-2-butene
Concen: 0.416 ug/l m
RT: 12.29 min Scan# 3272
Delta R.T. 0.00 min
Lab File: VN060322.D
Acq: 3 Mar 2020 12:26

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

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	73.8	110.6#
89	0.0	57.1	85.7#

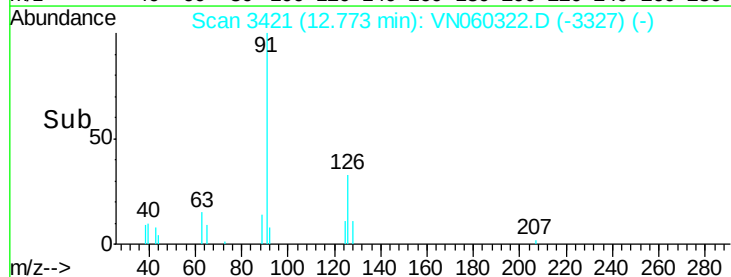
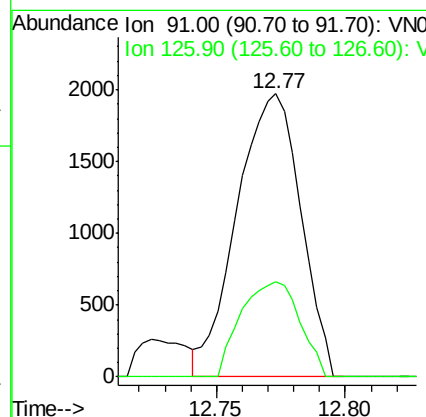
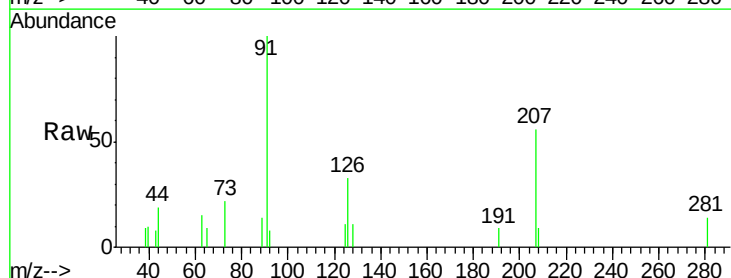
Manual Integrations
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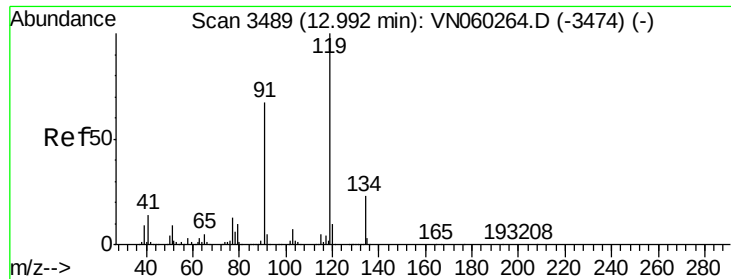
MMDadoda
3/4/2020 10:44:16 AM



#82
4-Chlorotoluene
Concen: 0.490 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN060322.D
Acq: 3 Mar 2020 12:26

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.0	16.7	50.1





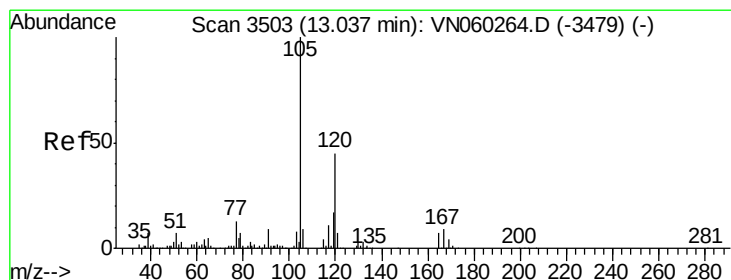
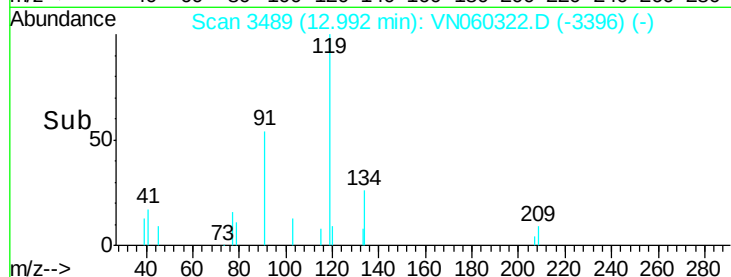
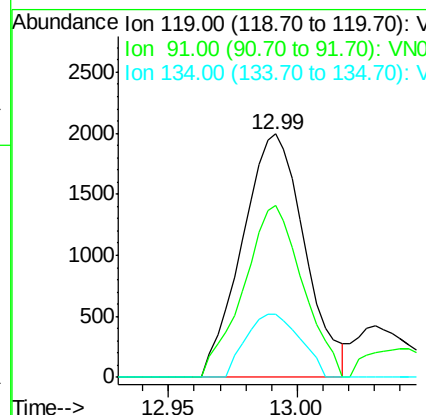
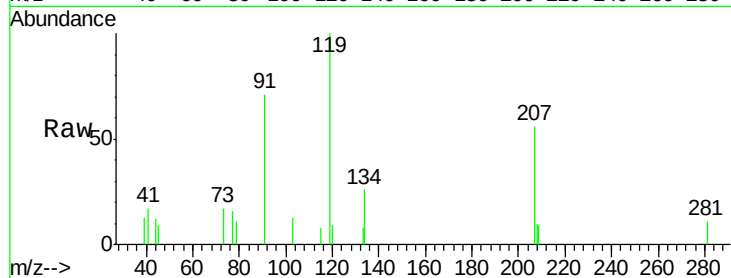
#83
tert-Butylbenzene
Concen: 0.483 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN060322.D
Acq: 3 Mar 2020 12:26

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

Tot Ion	Ratio	Lower	Upper
119	100		
91	66.7	33.1	99.2
134	22.5	12.4	37.0

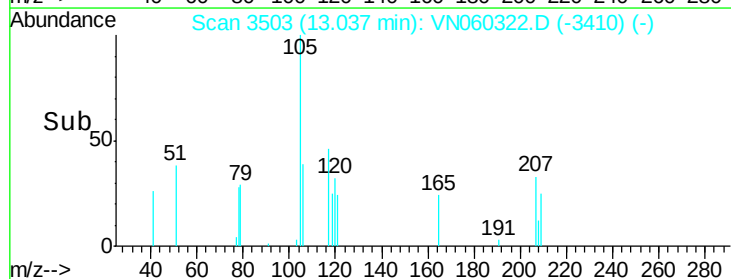
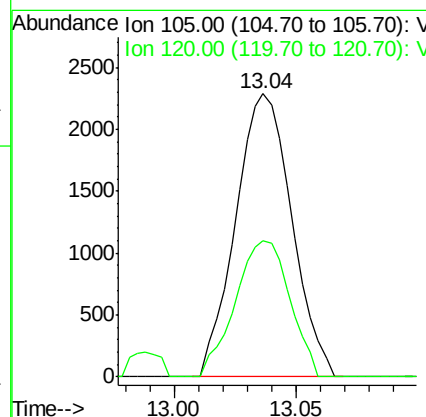
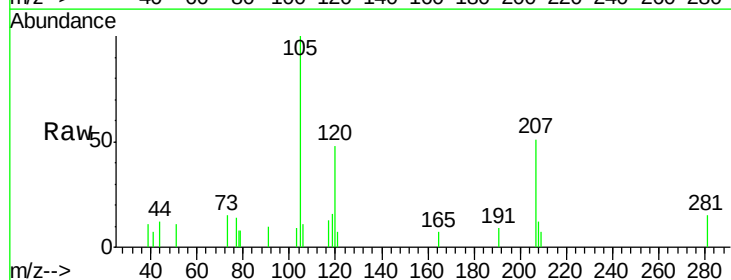
Manual Integrations
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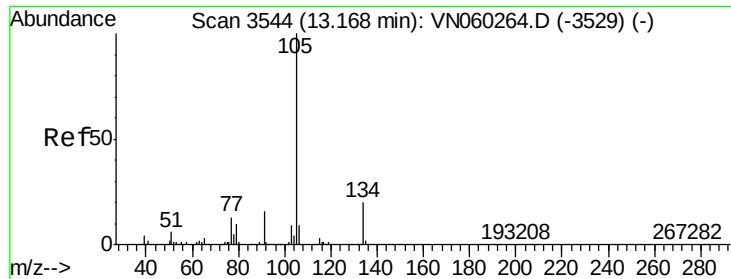
MMDadoda
3/4/2020 10:44:16 AM



#84
1,2,4-Trimethylbenzene
Concen: 0.449 ug/l
RT: 13.04 min Scan# 3503
Delta R.T. 0.00 min
Lab File: VN060322.D
Acq: 3 Mar 2020 12:26

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.7	22.3	66.9





#85

sec-Butylbenzene

Concen: 0.443 ug/l

RT: 13.17 min Scan# 3544

Delta R.T. 0.00 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

Instrument :

MSVOA_N

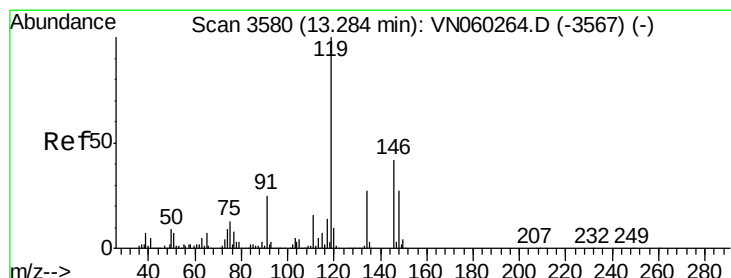
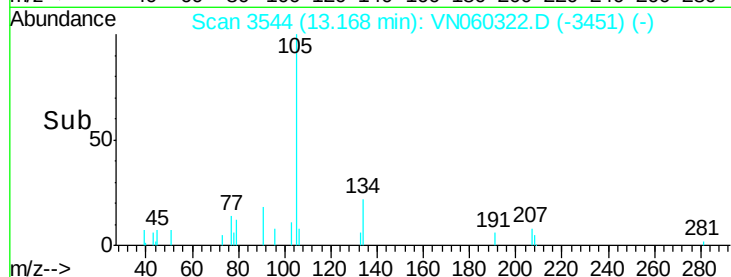
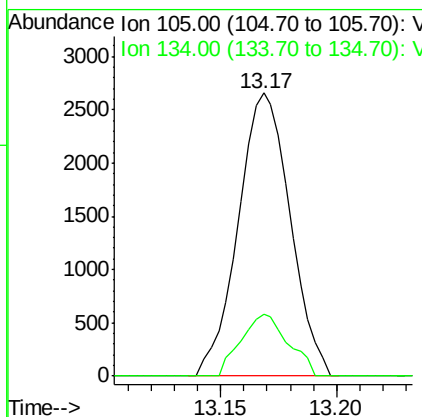
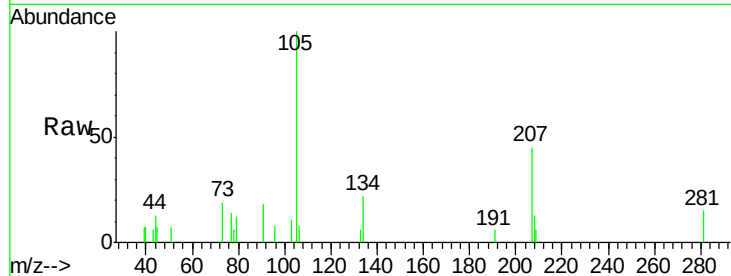
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion:	105	Resp:	4137
Ion Ratio	Lower	Upper	
105	100		
134	20.1	9.8	29.5

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#86

p-Isopropyltoluene

Concen: 0.455 ug/l

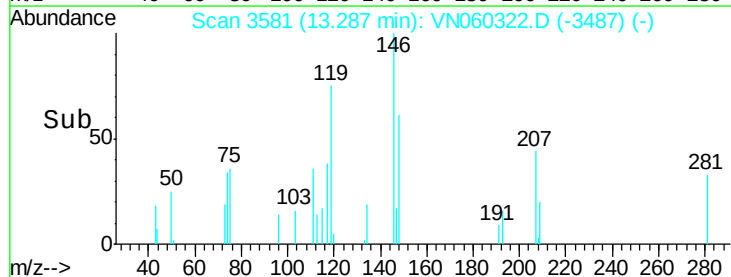
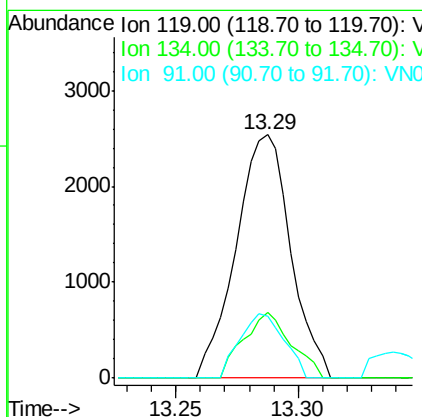
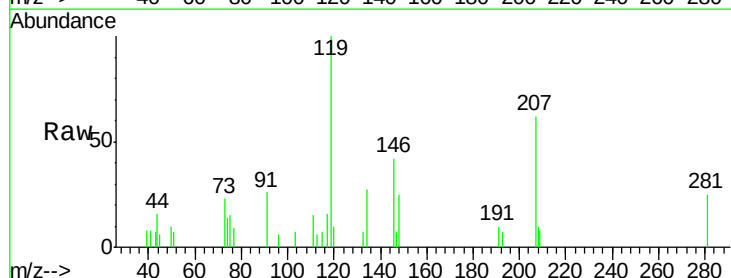
RT: 13.29 min Scan# 3581

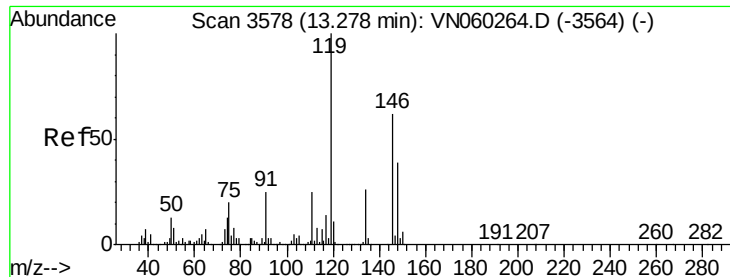
Delta R.T. 0.00 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

Tgt Ion:	119	Resp:	3930
Ion Ratio	Lower	Upper	
119	100		
134	23.4	13.2	39.6
91	21.5	12.2	36.6





#87

1,3-Dichlorobenzene

Concen: 0.461 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. 0.00 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

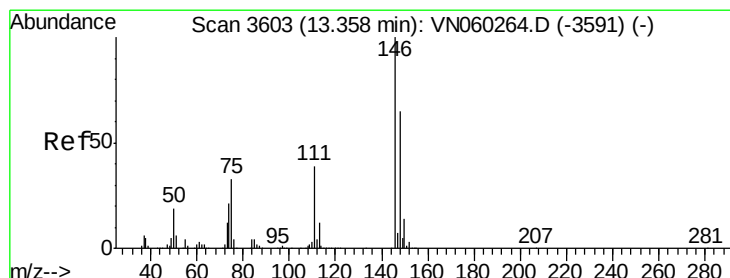
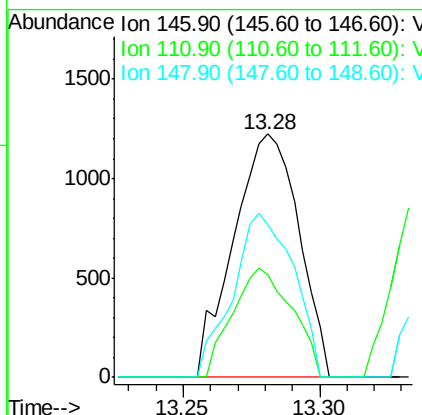
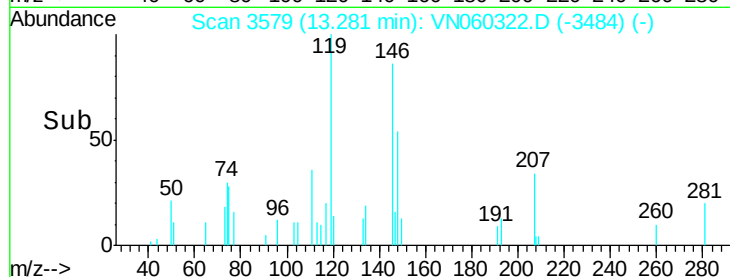
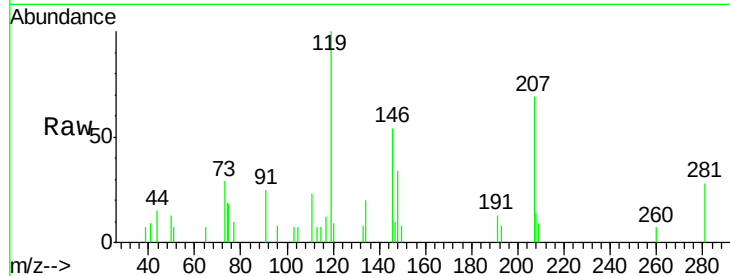
Instrument :
MSVOA_N

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.1	20.0	59.9
148	62.8	32.1	96.3

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#88

1,4-Dichlorobenzene

Concen: 0.515 ug/l m

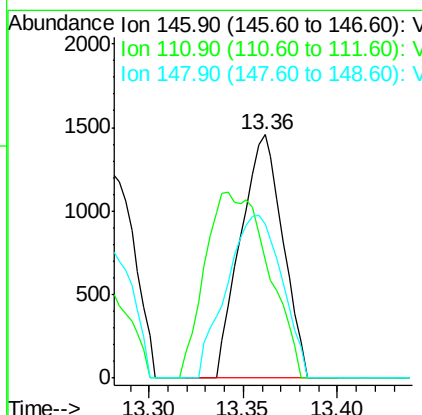
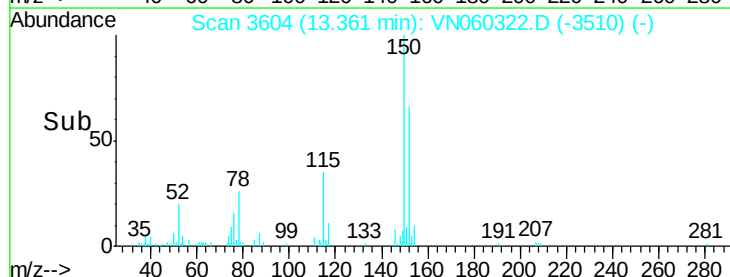
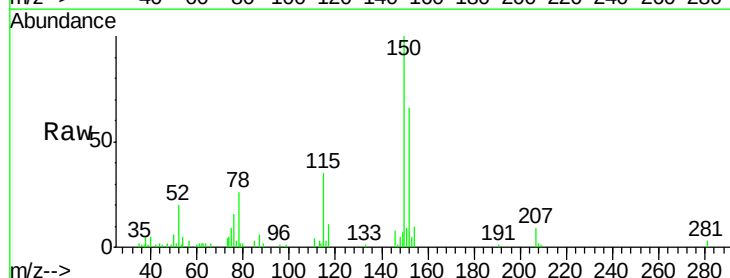
RT: 13.36 min Scan# 3604

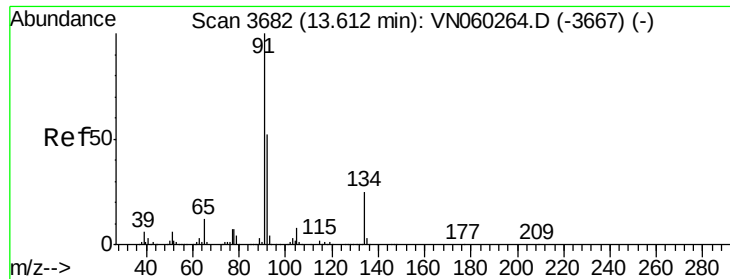
Delta R.T. 0.00 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.0	19.8	59.4
148	56.6	32.3	96.9





#89

n-Butylbenzene

Concen: 0.459 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. 0.00 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

Instrument :

MSVOA_N

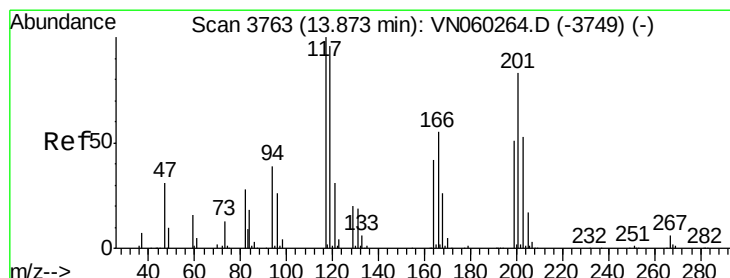
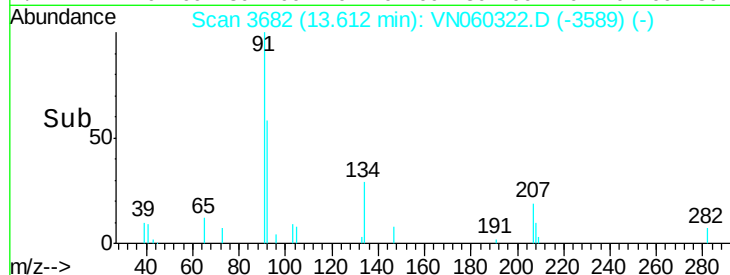
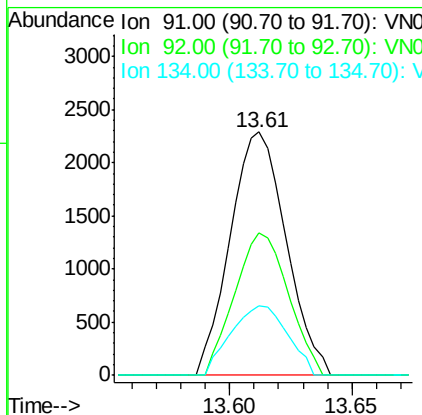
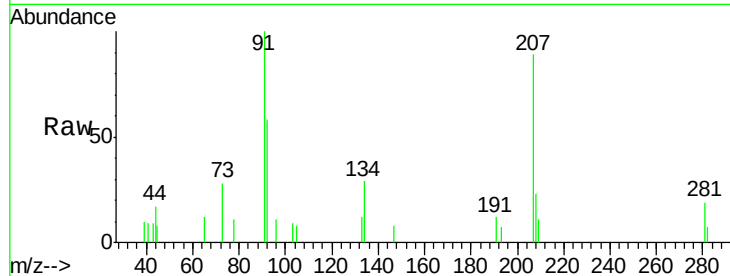
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion:	91	Resp:	3644
Ion	Ratio	Lower	Upper
91	100		
92	56.0	26.0	78.0
134	28.9	12.7	38.1

Manual Integrations
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#90

Hexachloroethane

Concen: 0.289 ug/l

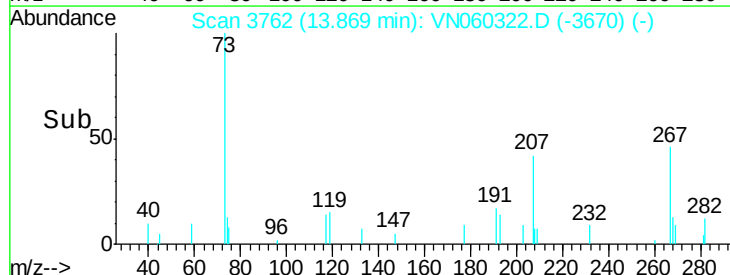
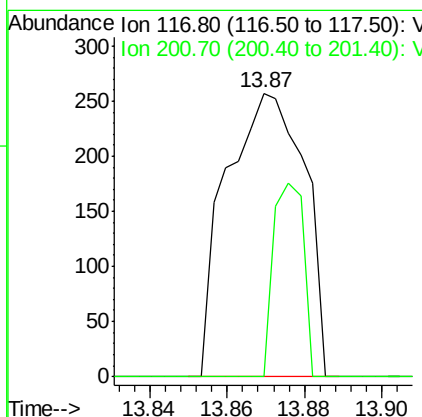
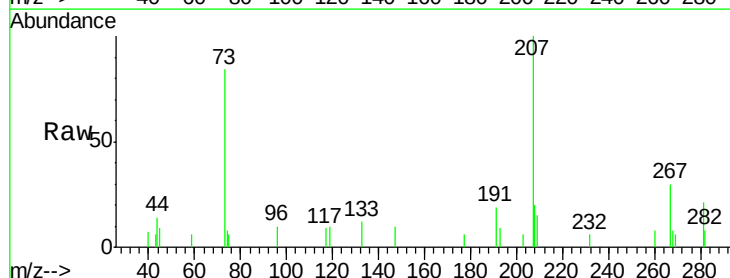
RT: 13.87 min Scan# 3762

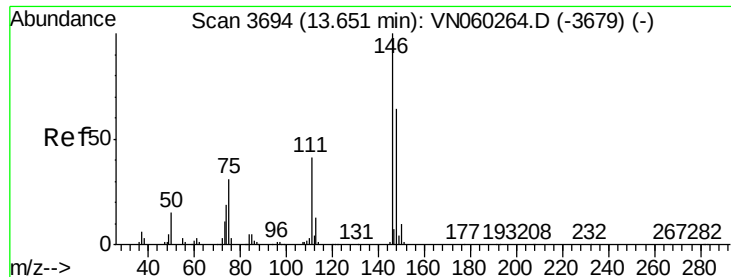
Delta R.T. -0.00 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

Tgt Ion:	117	Resp:	362
Ion	Ratio	Lower	Upper
117	100		
201	26.2	41.0	123.0#





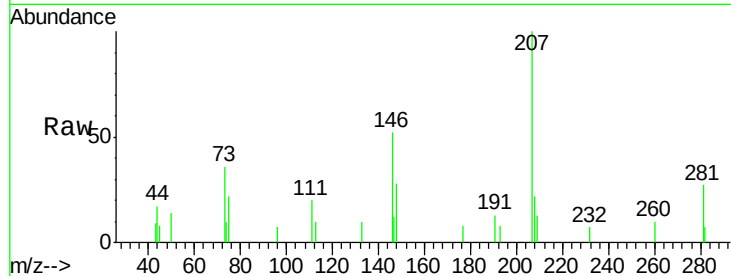
#91
 1,2-Dichlorobenzene
 Concen: 0.474 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN060322.D
 Acq: 3 Mar 2020 12:26

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.8	20.3	61.0
148	56.4	31.8	95.3

Manual Integrations
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MMDadoda
 3/4/2020 10:44:16 AM

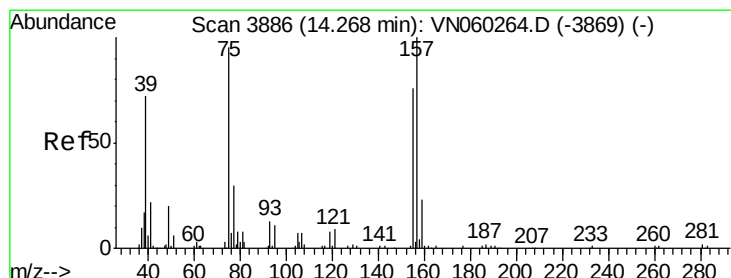
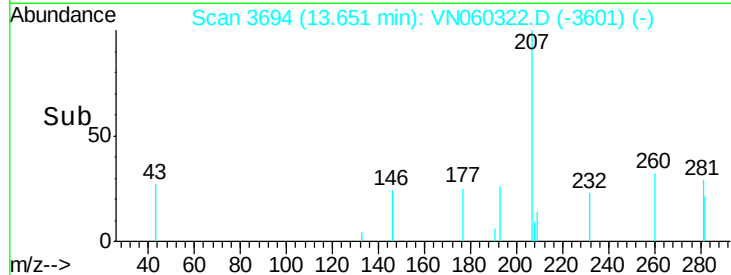
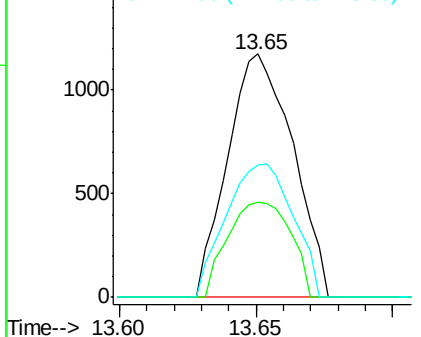


Abundance

Ion 145.90 (145.60 to 146.60): V

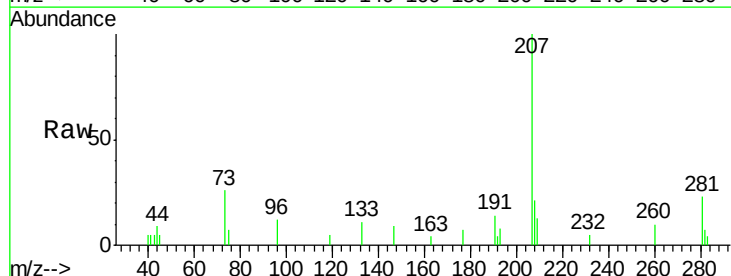
Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.115 ug/l m
 RT: 14.26 min Scan# 3882
 Delta R.T. -0.01 min
 Lab File: VN060322.D
 Acq: 3 Mar 2020 12:26

Tgt Ion	Ratio	Lower	Upper
75	100		
155	0.0	40.4	121.2#
157	0.0	52.5	157.5#

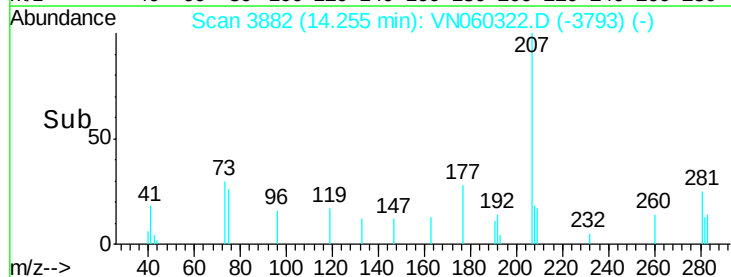
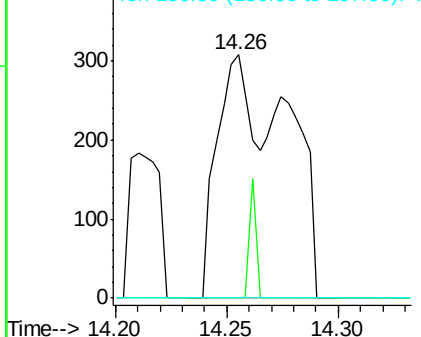


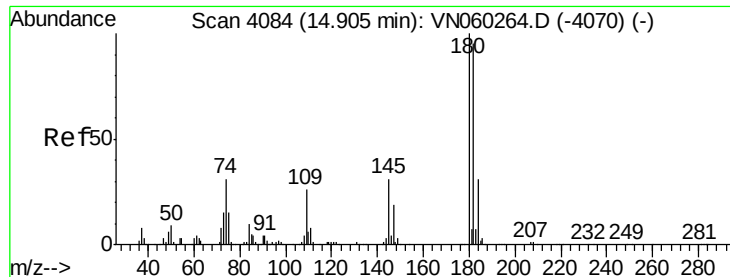
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#93

1,2,4-Trichlorobenzene

Concen: 0.521 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

Instrument :

MSVOA_N

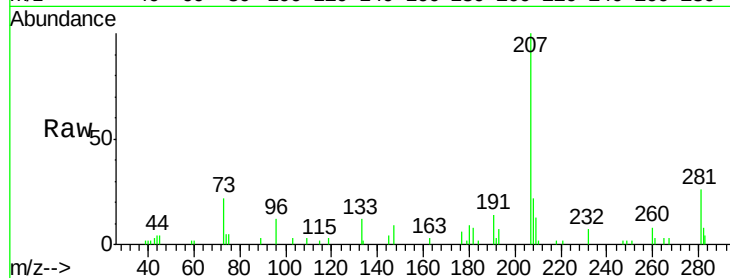
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

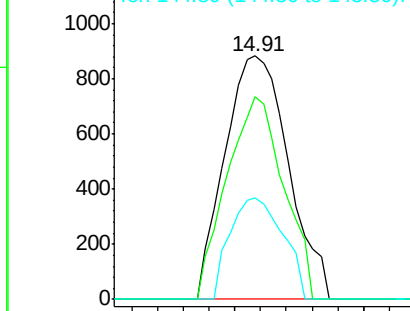
Tot Ion:	180	Resp:	1519
Ion Ratio	Lower	Upper	
180	100		
182	74.7	47.8	143.3
145	34.8	15.4	46.1

Manual Integrations
APPROVED

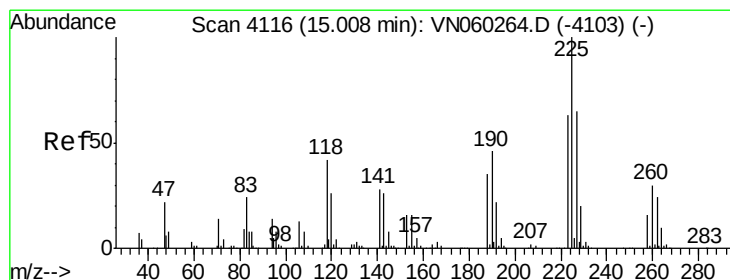
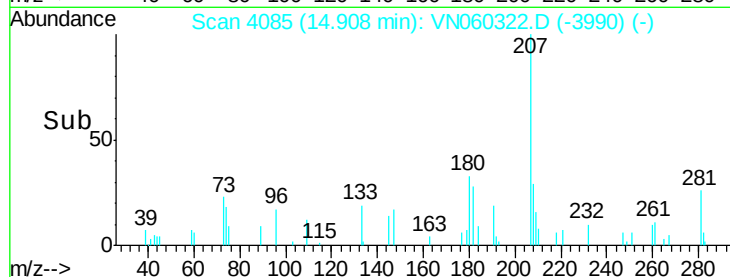
MMDadoda
3/4/2020 10:44:16 AM



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



Time-->



#94

Hexachlorobutadiene

Concen: 0.410 ug/l

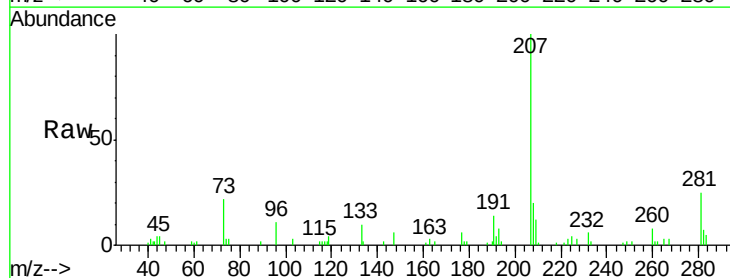
RT: 15.01 min Scan# 4116

Delta R.T. 0.00 min

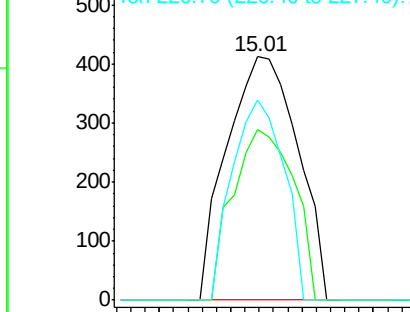
Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

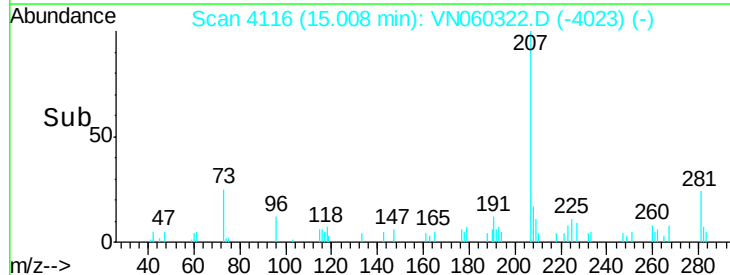
Tgt Ion:	225	Resp:	567
Ion Ratio	Lower	Upper	
225	100		
223	60.3	31.3	93.9
227	60.0	32.3	96.9

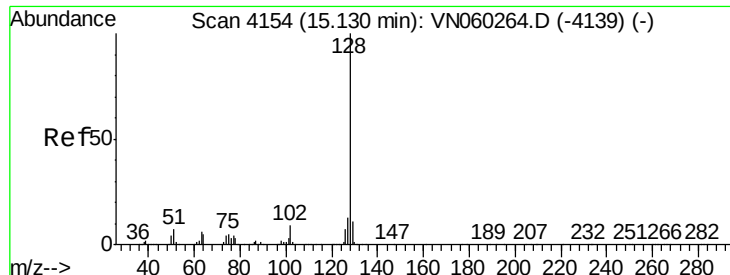


Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



Time-->





#95

Naphthalene

Concen: 0.487 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

Instrument :

MSVOA_N

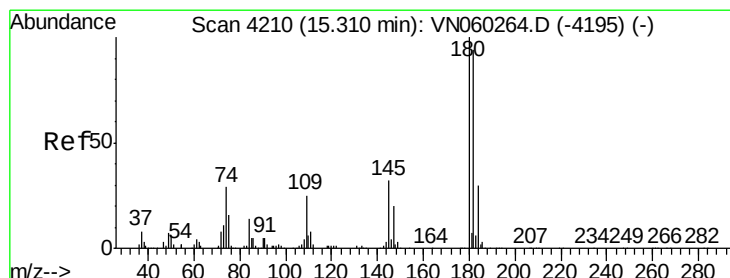
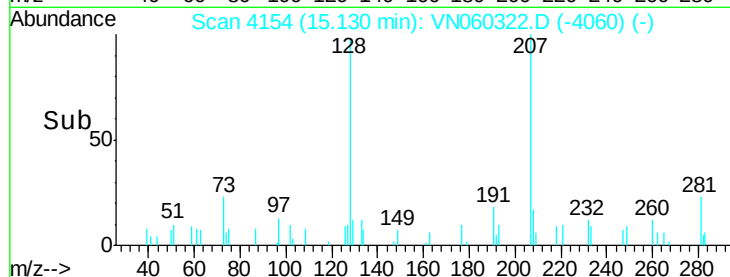
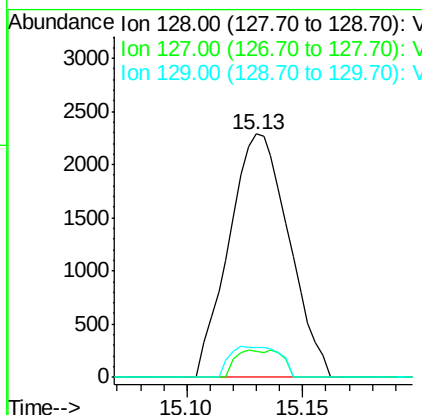
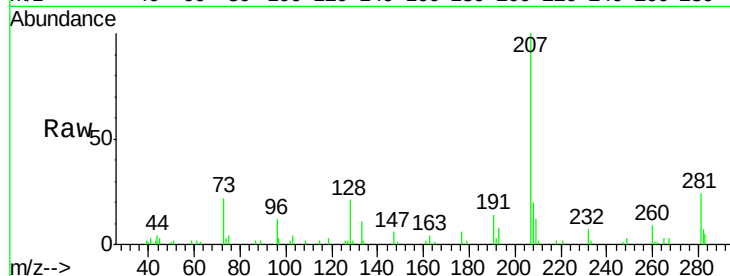
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
128	100		
127	8.4	10.4	15.6#
129	10.5	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
3/4/2020 10:44:16 AM



#96

1,2,3-Trichlorobenzene

Concen: 0.537 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN060322.D

Acq: 3 Mar 2020 12:26

Tgt Ion	Ratio	Lower	Upper
180	100		
182	81.9	47.3	142.0
145	24.0	16.2	48.5

