

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101119\
 Data File : VN058676.D
 Acq On : 10 Oct 2019 20:02
 Operator : JC/SP
 Sample : K5111-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Manual Integrations
 APPROVED

MMDadoda
 10/11/2019 2:47:37 PM

Quant Time: Oct 11 08:50:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 11 04:26:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	70615	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	397119	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	351949	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	184130	30.72	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.40%
60) 4-Bromofluorobenzene	12.41	95	171897	27.92	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.07%
63) Toluene-d8	10.08	98	499517	30.06	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.84	85	9895m	2.586	ug/l
3) Chloromethane	2.04	50	15477	3.028	ug/l
4) Vinyl Chloride	2.17	62	14260	2.700	ug/l
5) Bromomethane	2.55	94	10070	3.088	ug/l
6) Chloroethane	2.69	64	9267	2.791	ug/l
7) Trichlorofluoromethane	3.00	101	18518	2.848	ug/l
8) Diethyl Ether	3.39	74	6714	2.708	ug/l
9) 1,1,2-Trichlorotrifluoroet	3.73	101	10582	2.813	ug/l
10) 1,1-Dichloroethene	3.72	96	10776	2.917	ug/l
11) Methyl Iodide	3.93	142	13721	2.667	ug/l
12) Methyl Acetate	4.30	43	16779	2.838	ug/l
13) Acrolein	3.59	56	10071	15.419	ug/l
14) Acrylonitrile	4.97	53	30148	12.943	ug/l #
15) Acetone	3.80	58	8914	12.893	ug/l #
16) Carbon Disulfide	4.03	76	32576	3.023	ug/l
17) Allyl chloride	4.31	41	21382m	2.908	ug/l
18) Methylene Chloride	4.53	84	14051	3.141	ug/l
19) trans-1,2-Dichloroethene	5.02	96	12104	3.009	ug/l
20) Diisopropyl ether	5.93	45	40191	2.682	ug/l
21) 1,1-Dichloroethane	5.83	63	24270	2.925	ug/l
22) cis-1,2-Dichloroethene	6.81	96	13904	2.899	ug/l
23) tert-Butyl Alcohol	4.76	59	12918	13.559	ug/l #
24) Methyl tert-Butyl Ether	5.02	73	37800	2.742	ug/l
25) Chloroform	7.35	83	24153	2.919	ug/l
26) Cyclohexane	7.64	56	20224	2.777	ug/l #
29) 1,1-Dichloropropene	7.78	75	16680	2.668	ug/l
30) 2-Butanone	6.82	43	44004	12.457	ug/l
31) 2,2-Dichloropropane	6.80	77	19792	2.686	ug/l
32) 1,1,1-Trichloroethane	7.55	97	20427	2.825	ug/l
33) Carbon Tetrachloride	7.76	117	17274	2.760	ug/l
34) Benzene	8.03	78	51310	2.788	ug/l #
35) Methacrylonitrile	7.15	41	7813	2.504	ug/l
36) 1,2-Dichloroethane	8.11	62	21004	2.985	ug/l
37) Trichloroethene	8.83	130	12751	2.820	ug/l
38) Methylcyclohexane	9.07	83	19200	2.649	ug/l
39) 1,2-Dichloropropane	9.11	63	13686	2.721	ug/l
40) Dibromomethane	9.20	93	9014	2.839	ug/l

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41) Bromodichloromethane	9.39	83	16778	2.587	ug/l	95
42) Vinyl Acetate	5.87	43	160688	12.988	ug/l #	87
43) Ethyl Acetate	6.91	43	20835m	3.005	ug/l	
44) Isopropyl Acetate	8.15	43	29092	2.590	ug/l #	58
45) 1,4-Dioxane	9.19	88	4723	54.766	ug/l #	88
46) Methyl methacrylate	9.19	41	12461	2.417	ug/l	96
47) n-amyl Acetate	12.07	43	21208	2.130	ug/l #	90
48) t-1,3-Dichloropropene	10.38	75	19702m	2.619	ug/l	
49) cis-1,3-Dichloropropene	9.83	75	20233	2.561	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	12694	2.801	ug/l	98
51) Ethyl methacrylate	10.43	69	16245	2.241	ug/l	97
52) 1,3-Dichloropropane	10.71	76	21087	2.612	ug/l	94
53) Dibromochloromethane	10.90	129	11721	2.410	ug/l	98
54) 1,2-Dibromoethane	11.00	107	12199	2.597	ug/l	96
55) 2-Chloroethyl vinyl ether	9.69	63	44053	12.219	ug/l	98
56) Bromoform	12.13	173	7918	2.337	ug/l #	95
58) 4-Methyl-2-Pentanone	9.98	43	84344	13.137	ug/l	99
59) 2-Hexanone	10.75	43	63807	12.677	ug/l	97
61) Tetrachloroethene	10.63	164	11137	2.928	ug/l	97
62) Toluene	10.15	91	53487	2.825	ug/l	100
64) Chlorobenzene	11.43	112	32285	2.789	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.51	131	11688	2.693	ug/l	97
66) Ethyl Benzene	11.51	91	55496	2.647	ug/l	100
67) m/p-Xylenes	11.62	106	39184	5.003	ug/l	94
68) o-Xylene	11.95	106	20066	2.643	ug/l	97
69) Styrene	11.97	104	29053	2.316	ug/l	97
70) Isopropylbenzene	12.25	105	53221	2.596	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.51	83	17787	2.578	ug/l	93
72) 1,2,3-Trichloropropane	12.56	75	17439m	2.789	ug/l	
73) Bromobenzene	12.53	156	13416	2.695	ug/l	95
74) n-propylbenzene	12.59	91	61266	2.553	ug/l	98
75) 2-Chlorotoluene	12.68	91	38323	2.655	ug/l	98
76) 1,3,5-Trimethylbenzene	12.74	105	43707	2.489	ug/l	99
77) t-1,4-Dichloro-2-butene	12.31	75	4915	2.063	ug/l	75
78) 4-Chlorotoluene	12.78	91	36905	2.480	ug/l	99
79) tert-butylbenzene	13.00	119	37477	2.499	ug/l	98
80) 1,2,4-Trimethylbenzene	13.05	105	42422	2.432	ug/l	98
81) sec-Butylbenzene	13.18	105	49641	2.459	ug/l	99
82) p-Isopropyltoluene	13.29	119	42218	2.329	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	22655	2.515	ug/l	98
84) 1,4-Dichlorobenzene	13.37	146	21761	2.418	ug/l	97
85) n-Butylbenzene	13.62	91	36793	2.217	ug/l	99
86) Hexachloroethane	13.88	117	8390	2.543	ug/l	98
87) 1,2-Dichlorobenzene	13.66	146	23132	2.601	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.28	75	4612	3.003	ug/l	87
89) 1,2,4-Trichlorobenzene	14.92	180	12332	2.196	ug/l	98
90) Hexachlorobutadiene	15.02	225	7606	2.623	ug/l	95
91) Naphthalene	15.13	128	35768	2.157	ug/l	100
92) 1,2,3-Trichlorobenzene	15.30	180	12898	2.359	ug/l	97

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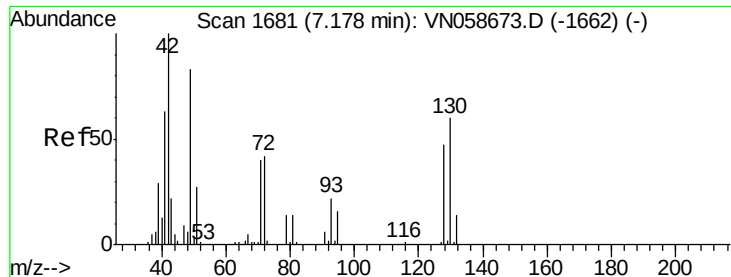
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.18 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:128 Resp: 70615

Ion Ratio Lower Upper

128 100

49 182.7 0.0 453.5

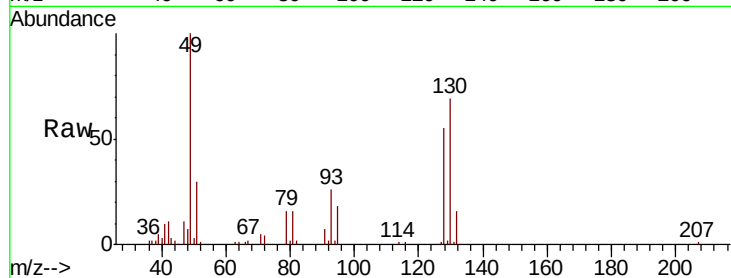
130 127.7 0.0 314.2

Manual Integrations

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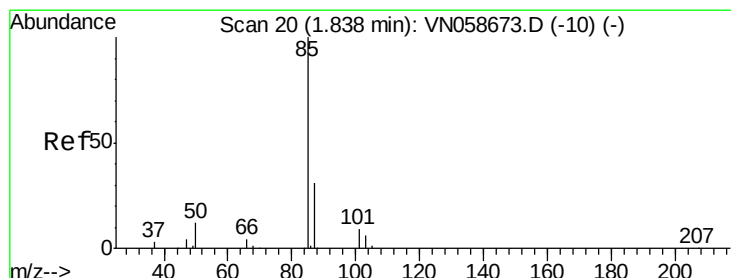
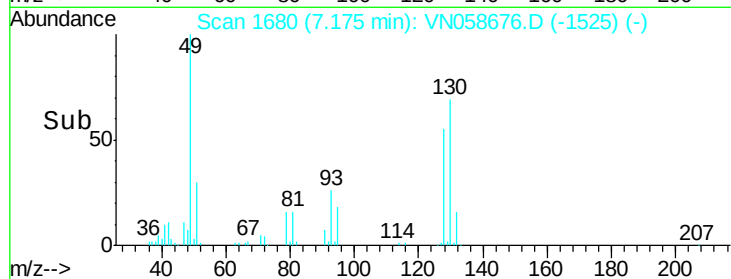
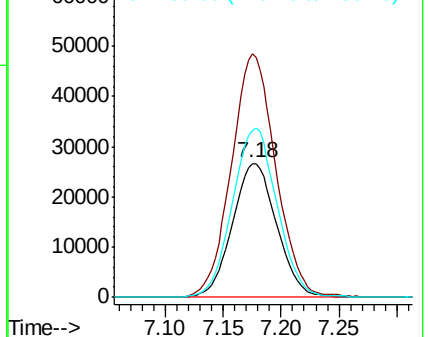
10/11/2019 2:47:37 PM



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 2.586 ug/l m

RT: 1.84 min Scan# 20

Delta R.T. 0.00 min

Lab File: VN058676.D

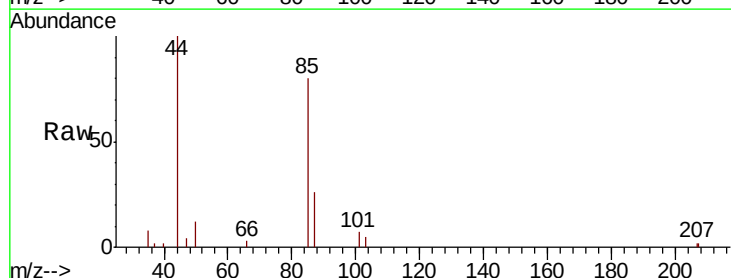
Acq: 10 Oct 2019 20:02

Tgt Ion: 85 Resp: 9895

Ion Ratio Lower Upper

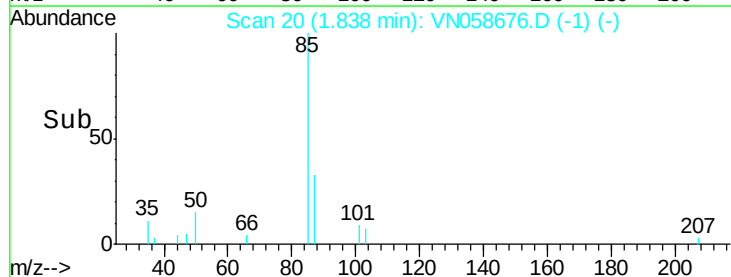
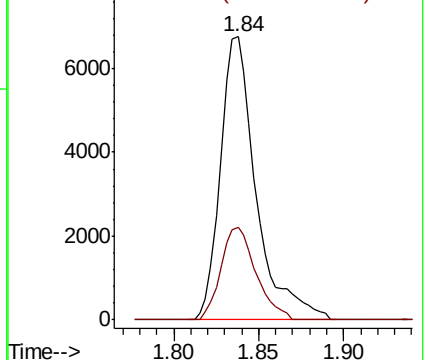
85 100

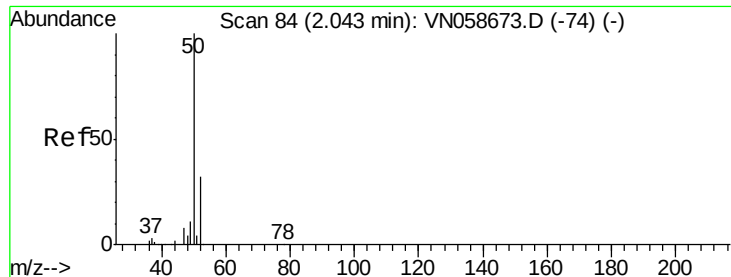
87 32.8 15.7 47.0



Abundance Ion 85.00 (84.70 to 85.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#3

Chloromethane

Concen: 3.028 ug/l

RT: 2.04 min Scan# 84

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

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ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 50 Resp: 15477

Ion Ratio Lower Upper

50 100

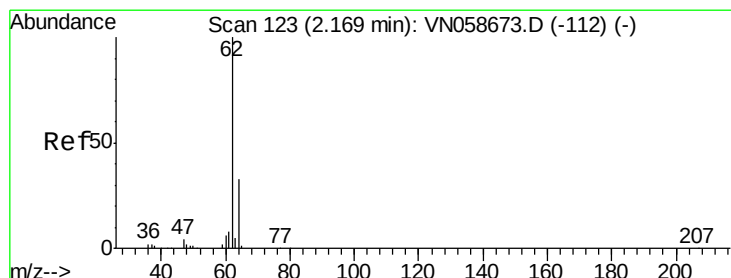
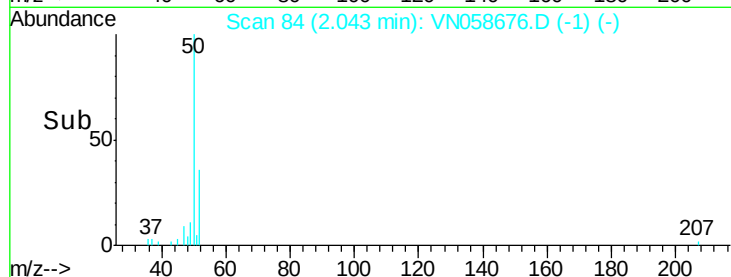
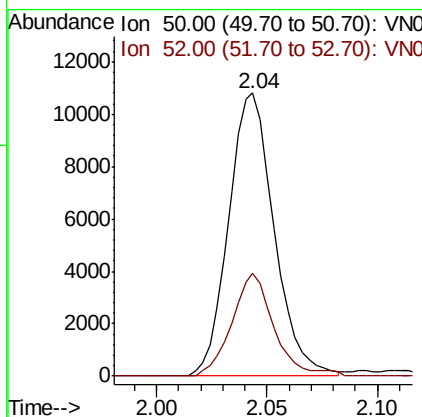
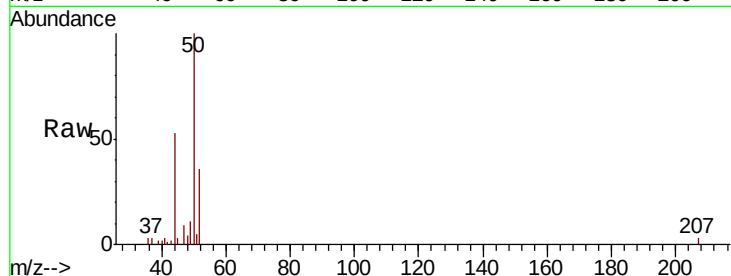
52 36.2 25.8 38.8

Manual Integrations

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#4

Vinyl Chloride

Concen: 2.700 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058676.D

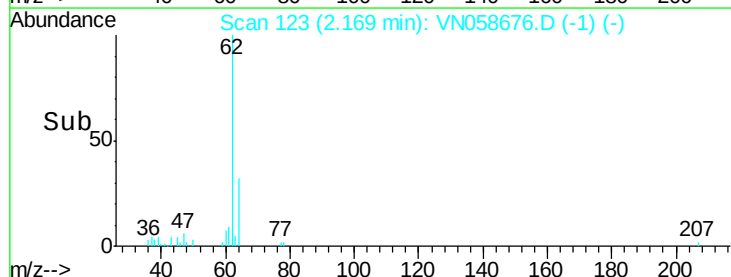
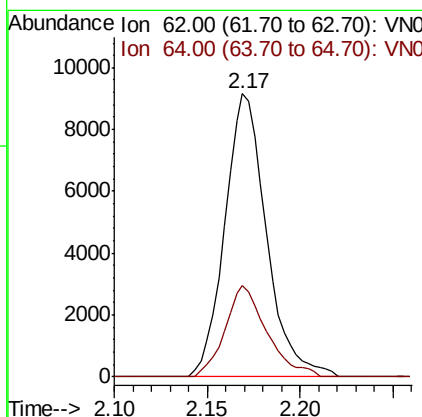
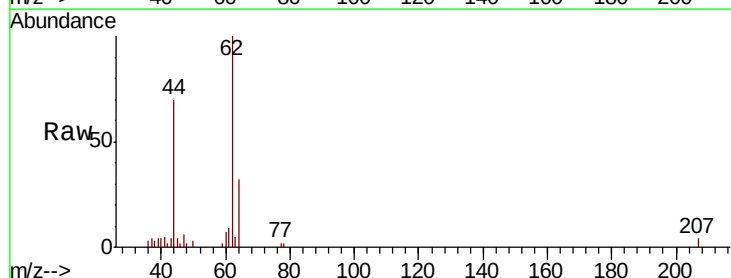
Acq: 10 Oct 2019 20:02

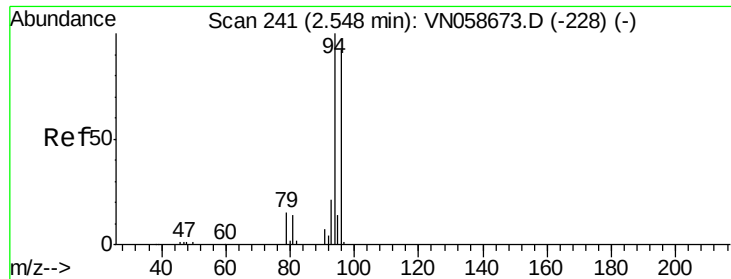
Tgt Ion: 62 Resp: 14260

Ion Ratio Lower Upper

62 100

64 32.3 26.1 39.1





#5

Bromomethane

Concen: 3.088 ug/l

RT: 2.55 min Scan# 241

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

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LOD-MDL-WATER-01-QT4-2019

Tot Ion: 94 Resp: 10070

Ion Ratio Lower Upper

94 100

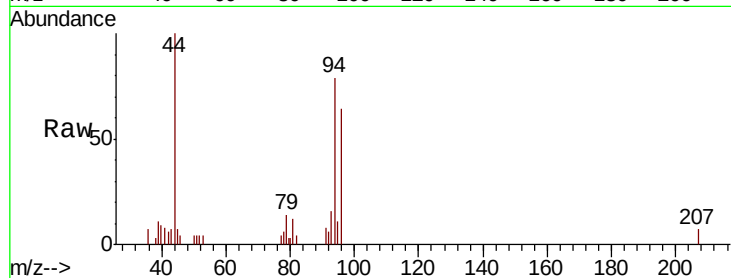
96 81.0 73.7 110.5

Manual Integrations

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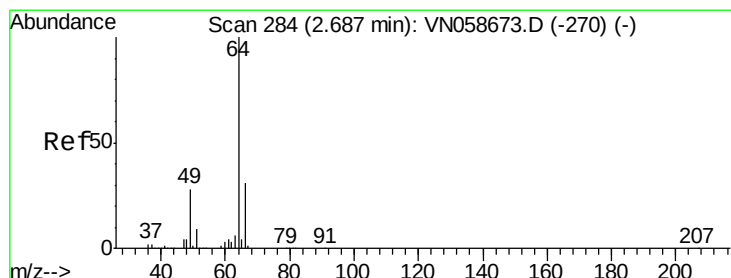
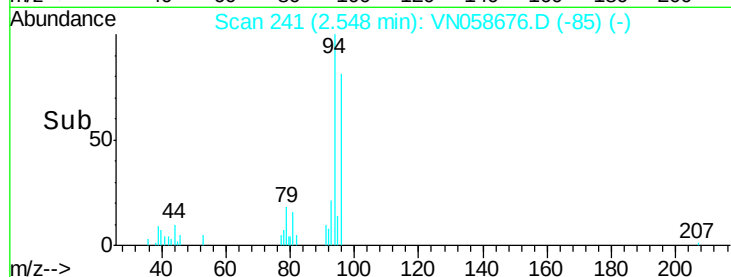
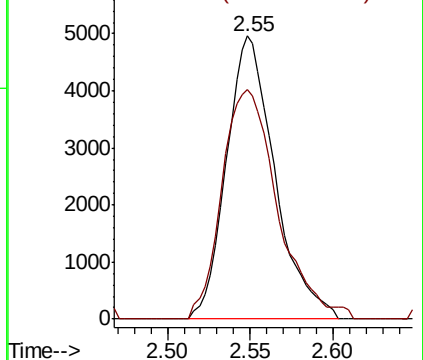
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Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 2.791 ug/l

RT: 2.69 min Scan# 285

Delta R.T. 0.00 min

Lab File: VN058676.D

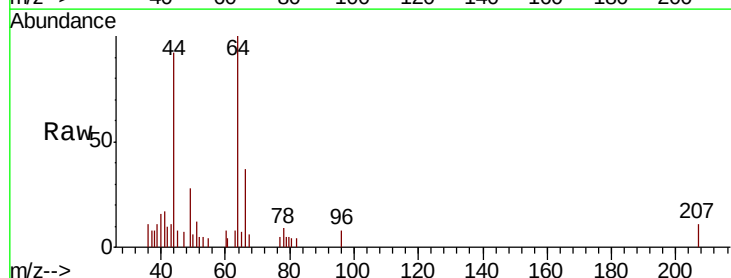
Acq: 10 Oct 2019 20:02

Tgt Ion: 64 Resp: 9267

Ion Ratio Lower Upper

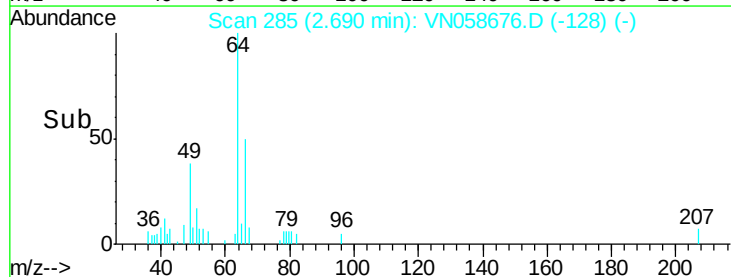
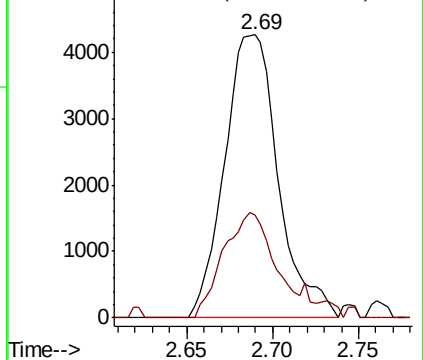
64 100

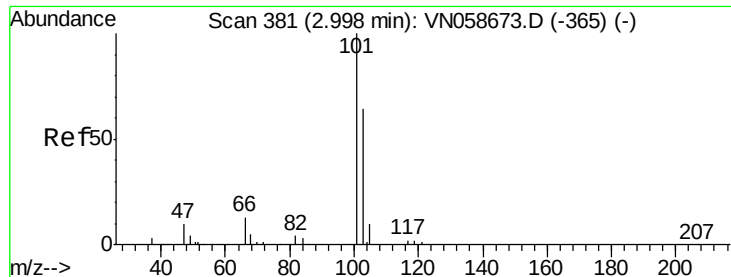
66 36.6 24.6 36.8



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0





#7

Trichlorofluoromethane

Concen: 2.848 ug/l

RT: 3.00 min Scan# 380

Delta R.T. -0.00 min

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Tot Ion:101 Resp: 18518

Ion Ratio Lower Upper

101 100

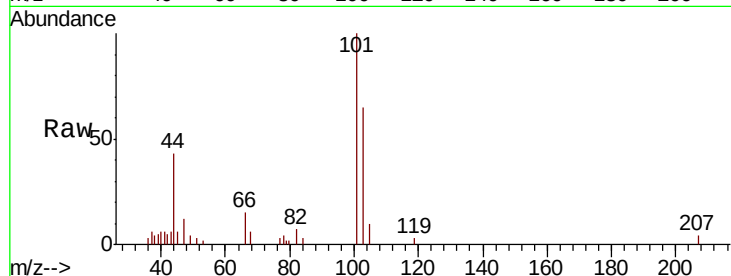
103 64.9 51.5 77.3

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

3.00

8000

6000

4000

2000

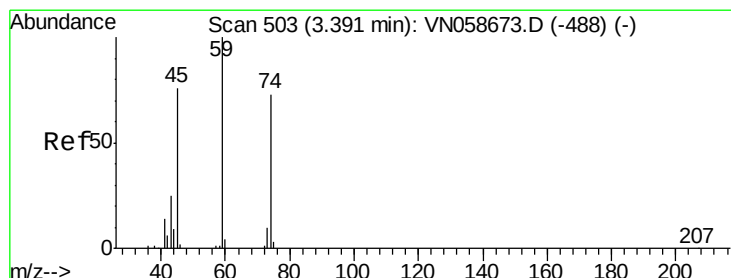
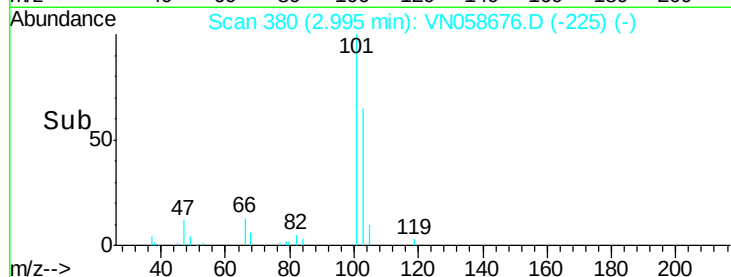
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Time-->

2.95

3.00

3.05



#8

Diethyl Ether

Concen: 2.708 ug/l

RT: 3.39 min Scan# 503

Delta R.T. -0.00 min

Lab File: VN058676.D

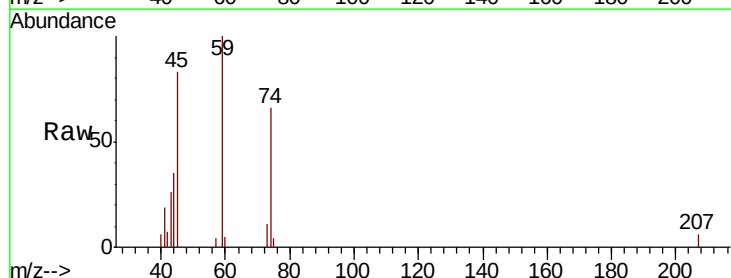
Acq: 10 Oct 2019 20:02

Tgt Ion: 74 Resp: 6714

Ion Ratio Lower Upper

74 100

45 117.7 20.6 185.8



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO

3.39

4000

3000

2000

1000

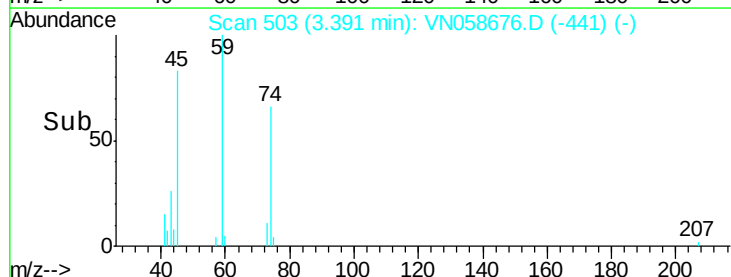
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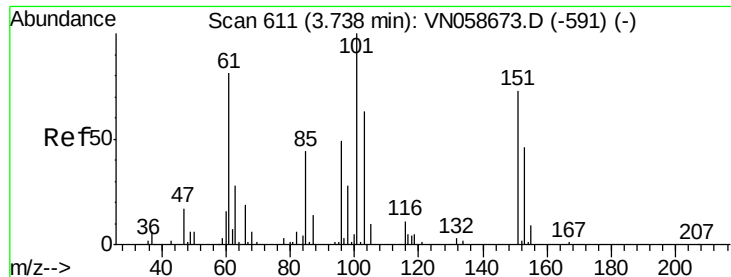
Time-->

3.35

3.40

3.45





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.813 ug/l

RT: 3.73 min Scan# 610

Delta R.T. -0.00 min

Lab File: VN058676.D

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Instrument :

MSVOA_N

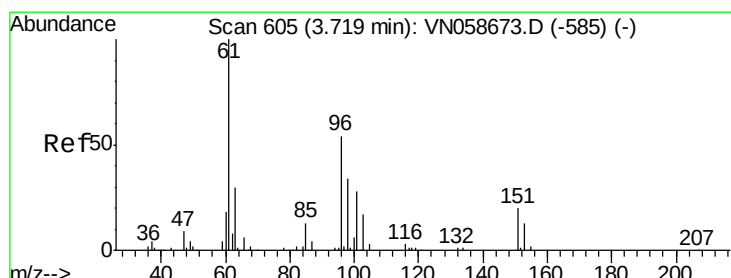
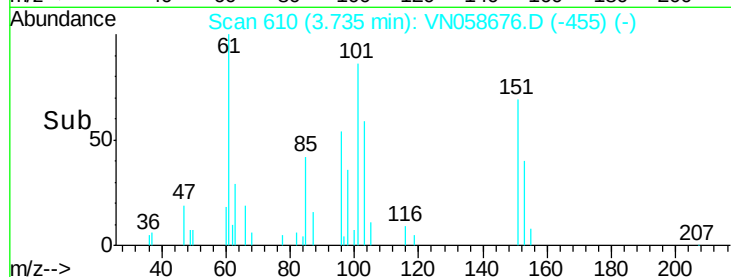
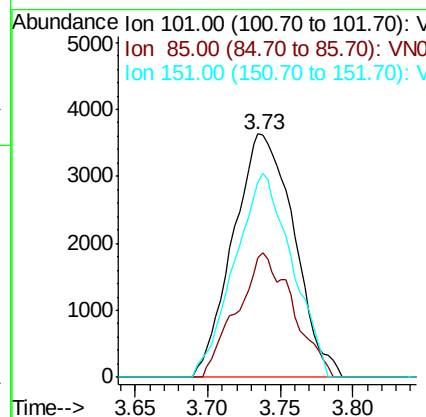
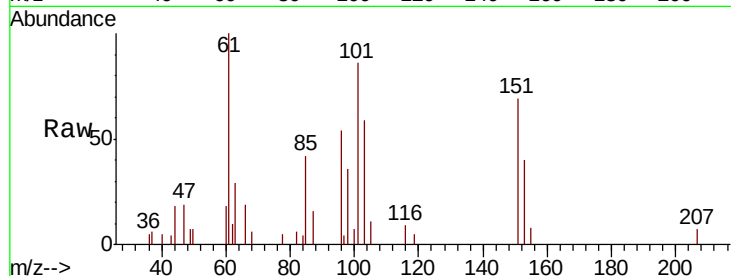
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:	101	Resp:	10582
Ion Ratio	Lower	Upper	
101	100		
85	32.0	0.0	93.8
151	79.2	0.0	149.6

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#10

1,1-Dichloroethene

Concen: 2.917 ug/l

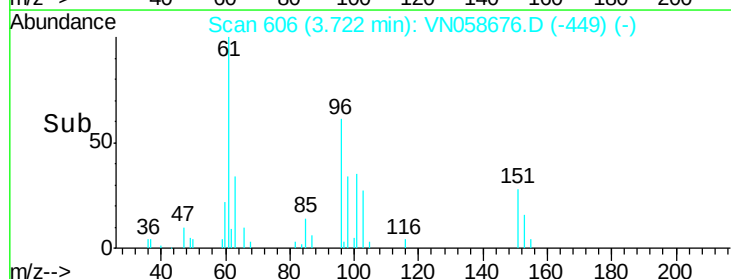
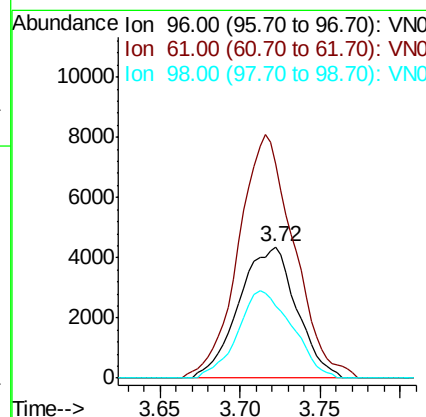
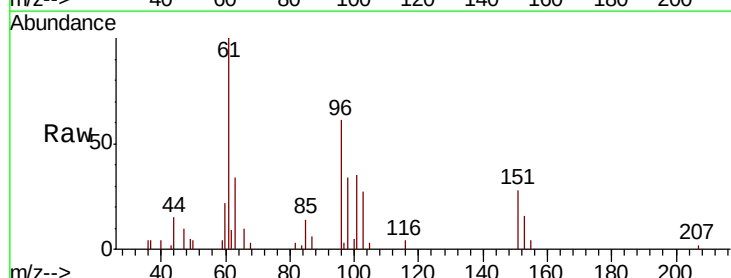
RT: 3.72 min Scan# 606

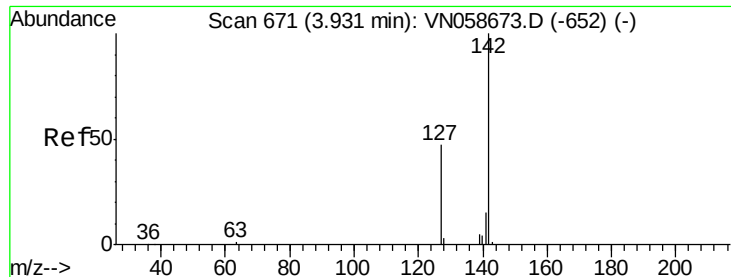
Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Tgt Ion:	96	Resp:	10776
Ion Ratio	Lower	Upper	
96	100		
61	158.4	148.5	222.7
98	55.3	51.0	76.6





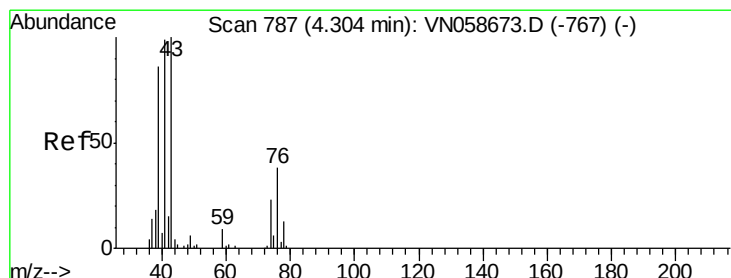
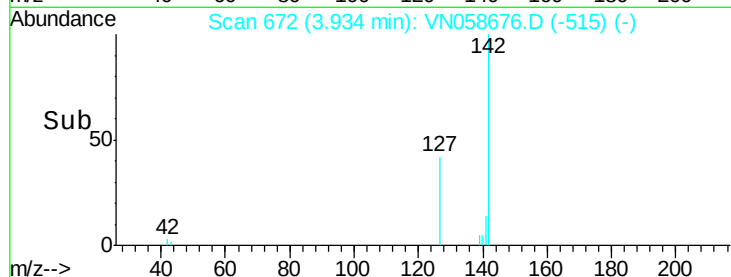
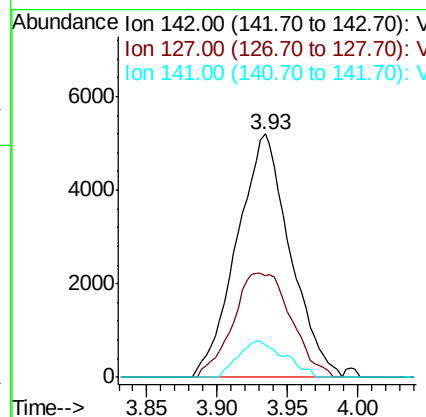
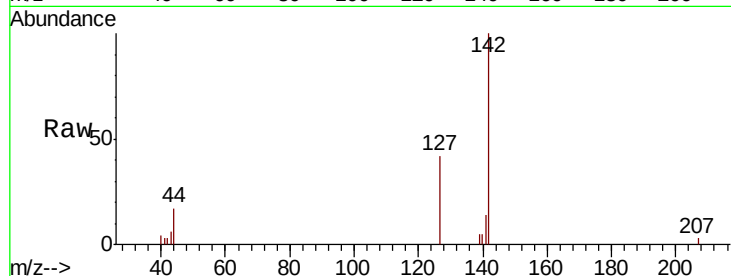
#11
Methyl Iodide
Concen: 2.667 ug/l
RT: 3.93 min Scan# 672
Delta R.T. 0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
142	100		
127	41.8	23.5	70.6
141	13.5	7.4	22.2

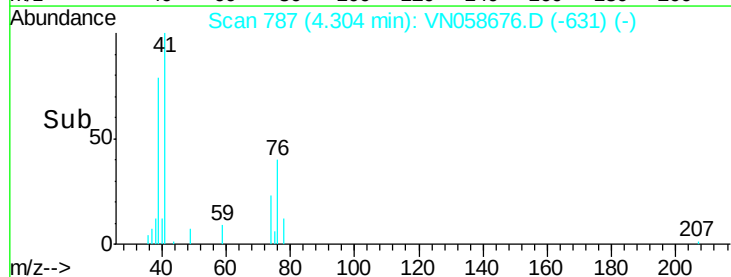
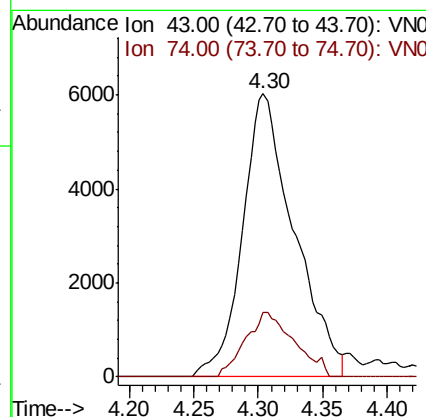
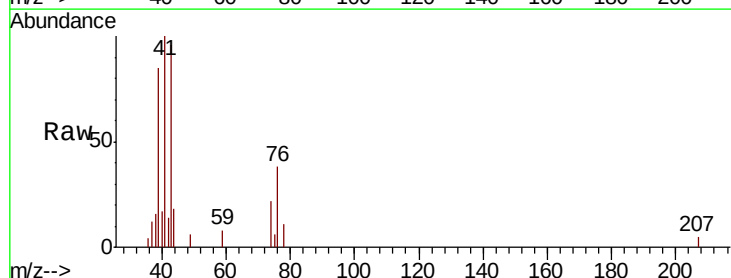
Manual Integrations
APPROVED

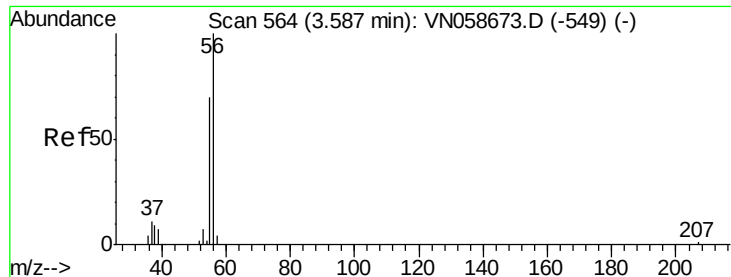
MMDadoda
10/11/2019 2:47:37 PM



#12
Methyl Acetate
Concen: 2.838 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.6	18.1	27.1





#13

Acrolein

Concen: 15.419 ug/l

RT: 3.59 min Scan# 564

Delta R.T. -0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 56 Resp: 10071

Ion Ratio Lower Upper

56 100

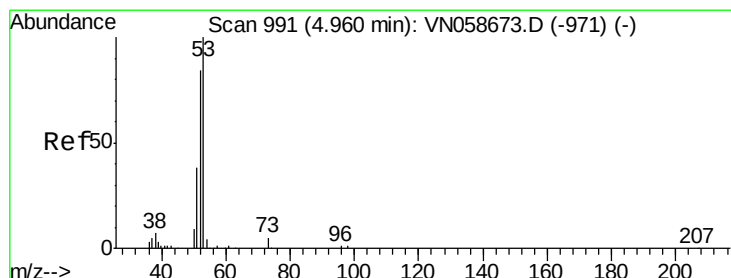
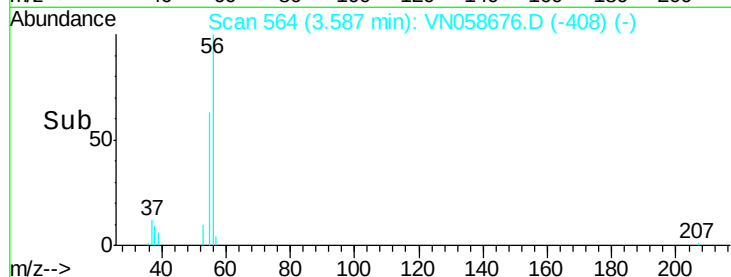
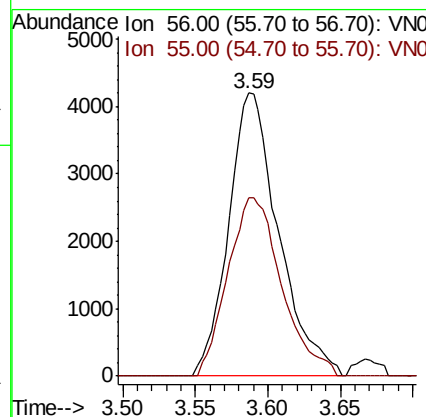
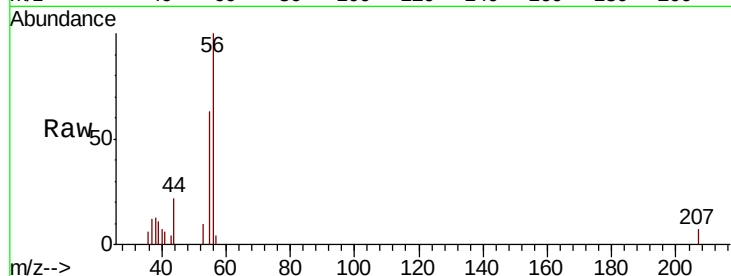
55 67.9 55.9 83.9

Manual Integrations

APPROVED

MMDadoda

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#14

Acrylonitrile

Concen: 12.943 ug/l

RT: 4.97 min Scan# 993

Delta R.T. 0.01 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

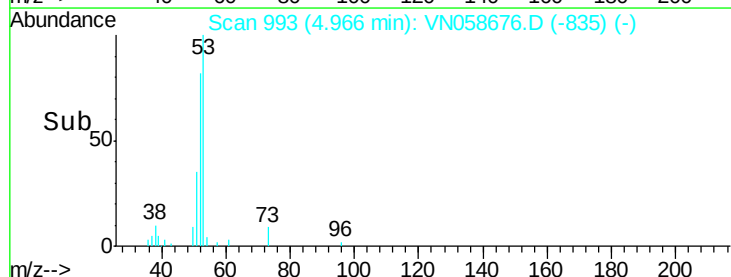
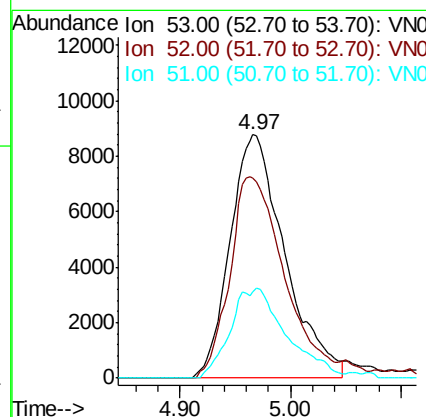
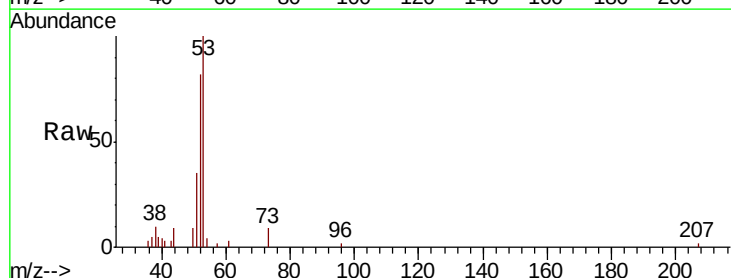
Tgt Ion: 53 Resp: 30148

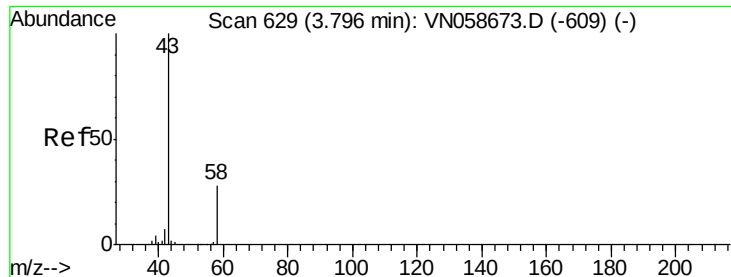
Ion Ratio Lower Upper

53 100

52 82.3 42.2 126.6

51 14.2 18.8 56.4#





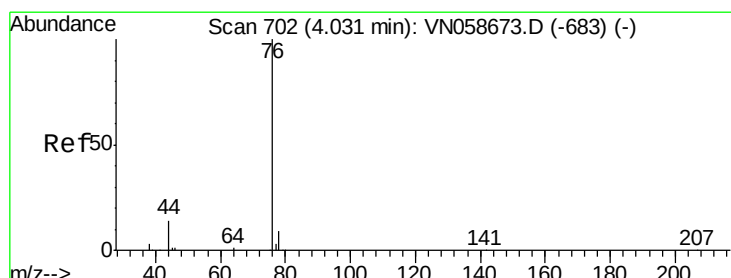
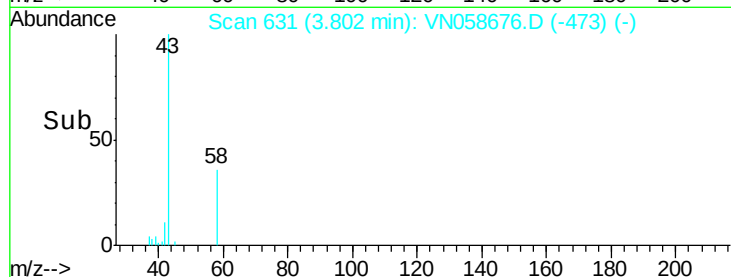
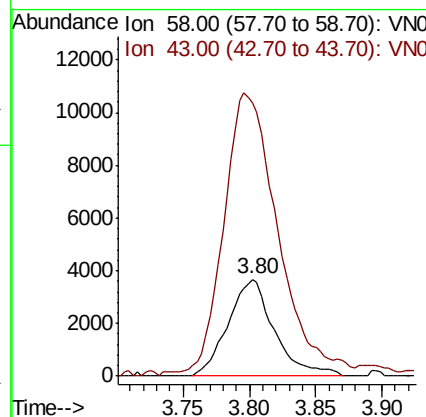
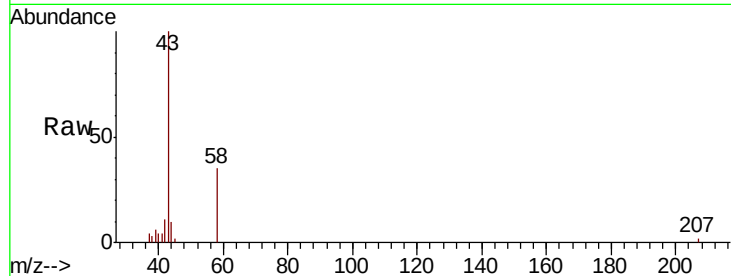
#15
Acetone
Concen: 12.893 ug/l
RT: 3.80 min Scan# 631
Delta R.T. 0.01 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 58 Resp: 8914
Ion Ratio Lower Upper
58 100
43 271.3 281.7 422.5#

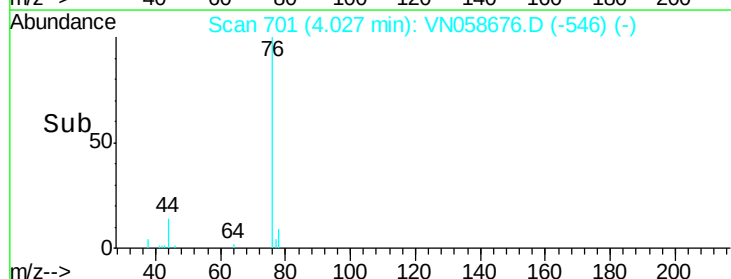
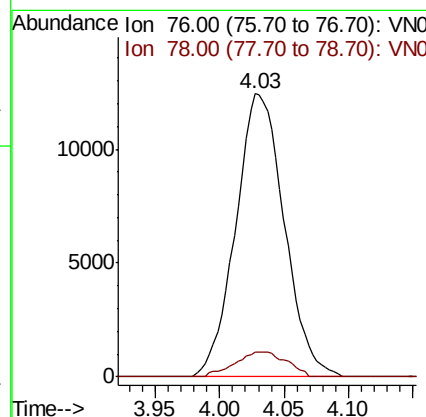
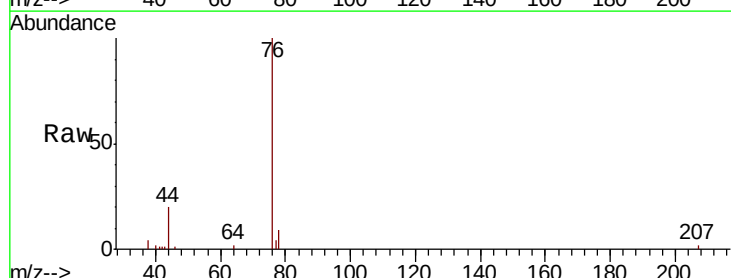
Manual Integrations
APPROVED

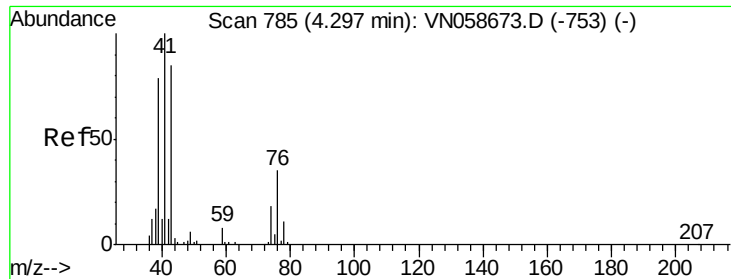
MMDadoda
10/11/2019 2:47:37 PM



#16
Carbon Disulfide
Concen: 3.023 ug/l
RT: 4.03 min Scan# 701
Delta R.T. -0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Tgt Ion: 76 Resp: 32576
Ion Ratio Lower Upper
76 100
78 8.5 7.4 11.0





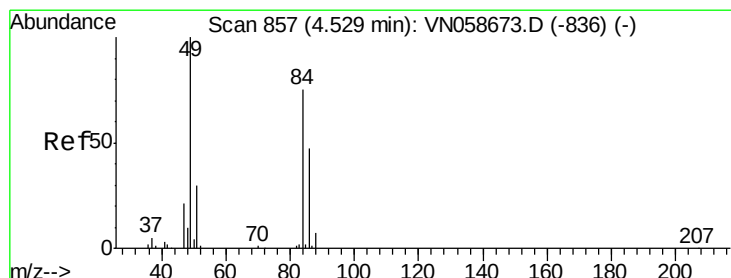
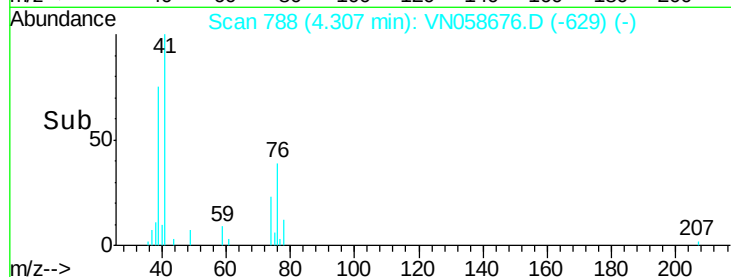
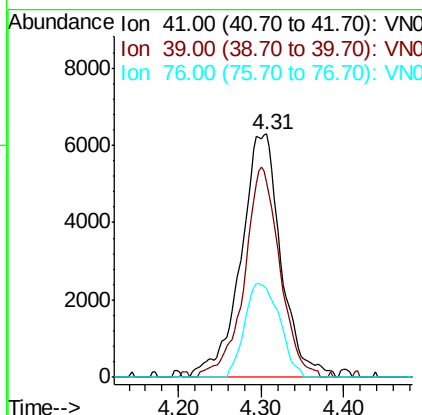
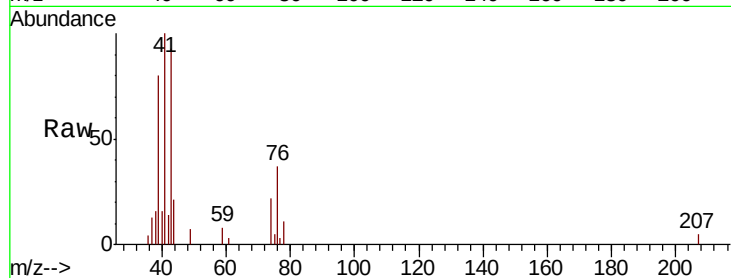
#17
Allvl chloride
Concen: 2.908 ug/l m
RT: 4.31 min Scan# 788
Delta R.T. 0.01 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion:	41	Resp:	21382
Ion	Ratio	Lower	Upper
41	100		
39	79.9	39.6	118.8
76	36.6	17.6	52.9

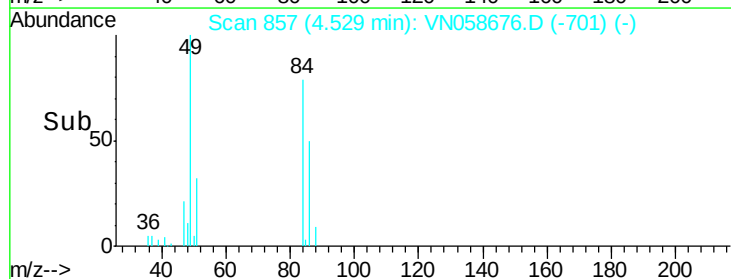
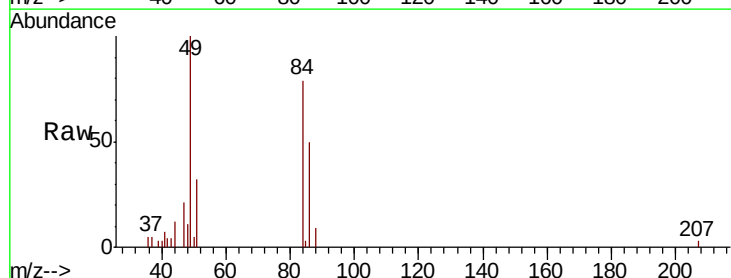
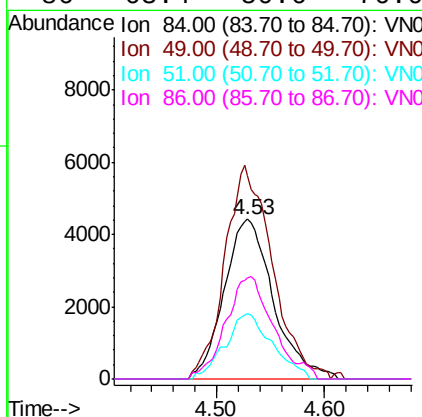
Manual Integrations
APPROVED

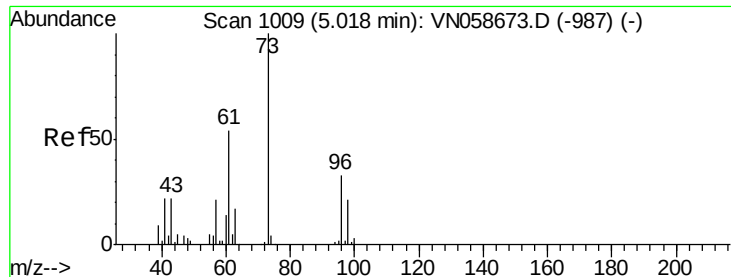
MMDadoda
10/11/2019 2:47:37 PM



#18
Methylene Chloride
Concen: 3.141 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Tgt Ion:	84	Resp:	14051
Ion	Ratio	Lower	Upper
84	100		
49	127.3	106.6	160.0
51	41.2	32.4	48.6
86	63.4	50.6	76.0





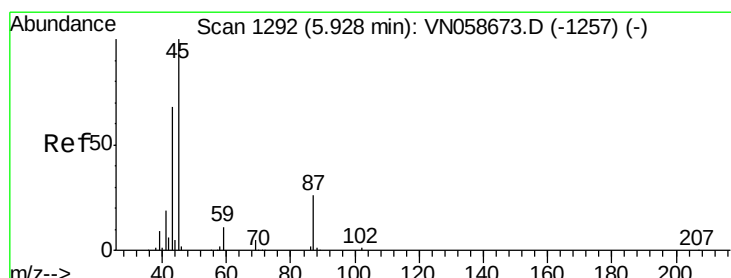
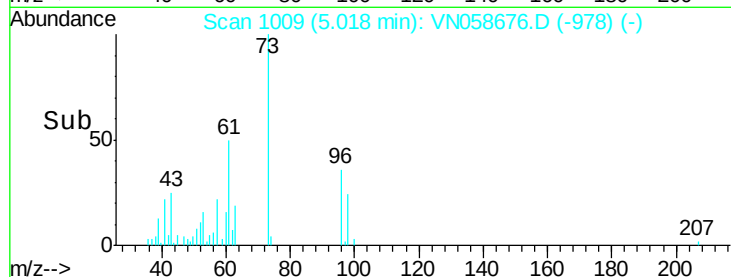
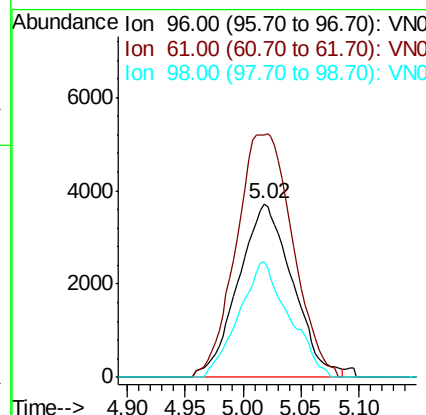
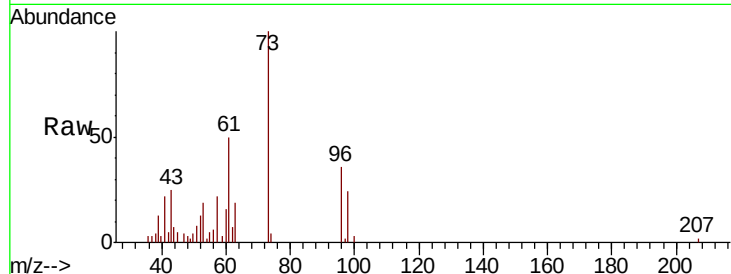
#19
trans-1,2-Dichloroethene
Concen: 3.009 ug/l
RT: 5.02 min Scan# 1009
Delta R.T. 0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
96	100		
61	140.1	131.8	197.6
98	66.8	52.6	79.0

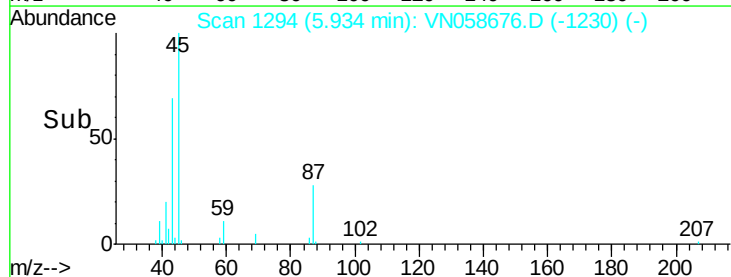
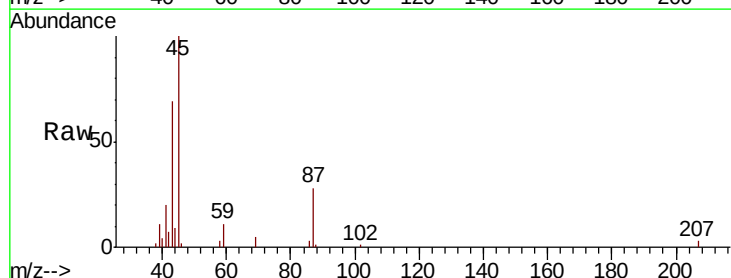
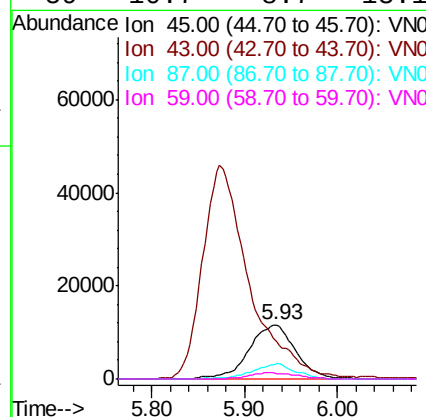
Manual Integrations
APPROVED

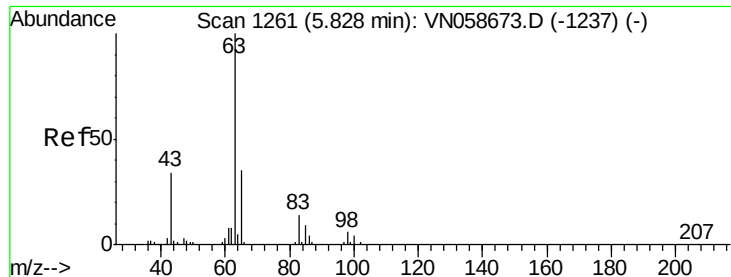
MMDadoda
10/11/2019 2:47:37 PM



#20
Diisopropyl ether
Concen: 2.682 ug/l
RT: 5.93 min Scan# 1294
Delta R.T. 0.01 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Tgt Ion	Ratio	Lower	Upper
45	100		
43	63.7	54.7	82.1
87	27.5	21.5	32.3
59	10.7	8.7	13.1





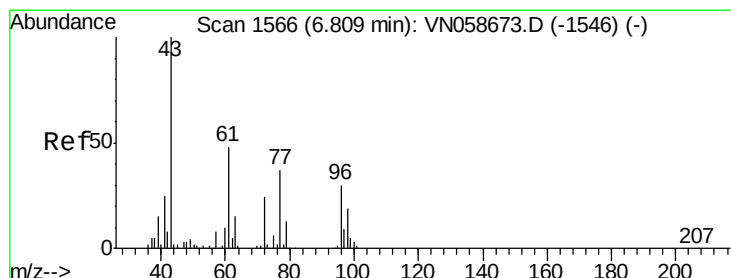
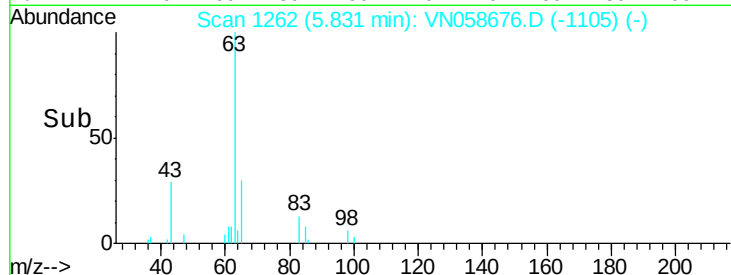
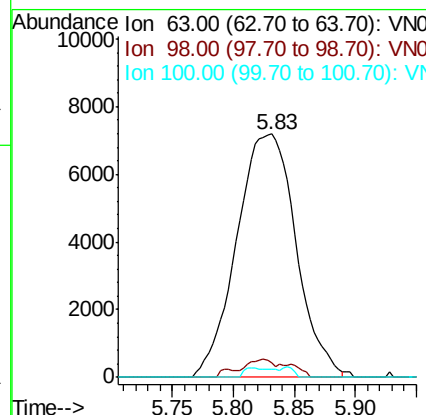
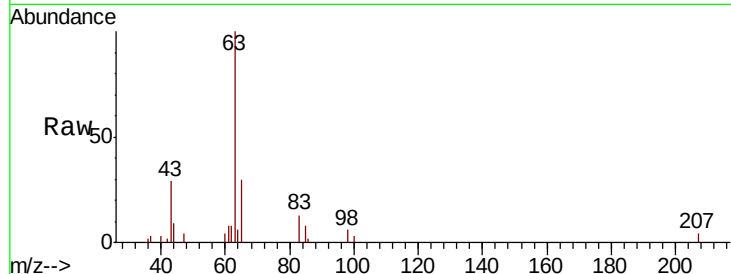
#21
 1,1-Dichloroethane
 Concen: 2.925 ug/l
 RT: 5.83 min Scan# 1262
 Delta R.T. 0.00 min
 Lab File: VN058676.D
 Acq: 10 Oct 2019 20:02

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
63	100	24270		
98	5.7		2.9	8.6
100	3.4		1.8	5.5

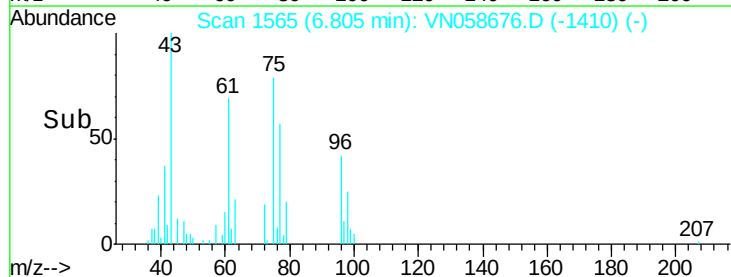
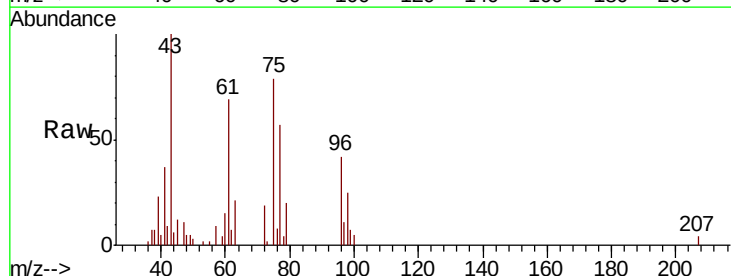
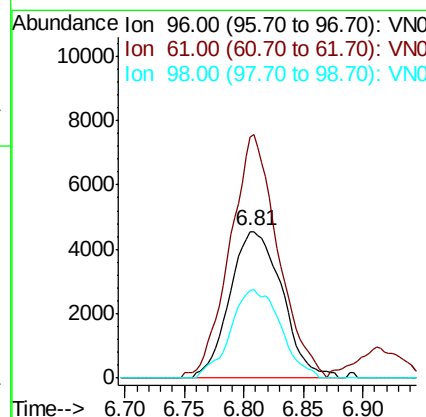
Manual Integrations
 APPROVED

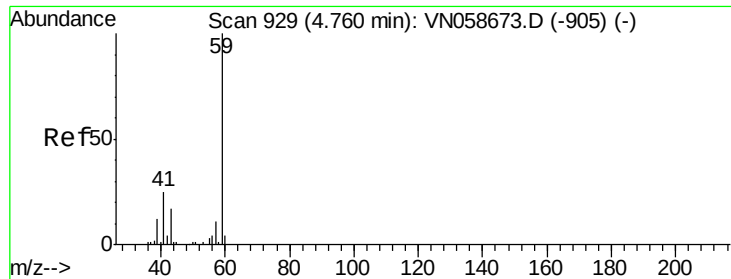
MMDadoda
 10/11/2019 2:47:37 PM



#22
 cis-1,2-Dichloroethene
 Concen: 2.899 ug/l
 RT: 6.81 min Scan# 1565
 Delta R.T. -0.00 min
 Lab File: VN058676.D
 Acq: 10 Oct 2019 20:02

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	13904		
61	152.2		127.2	190.8
98	57.8		50.5	75.7





#23

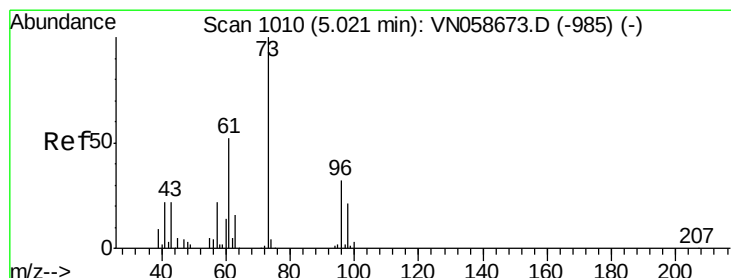
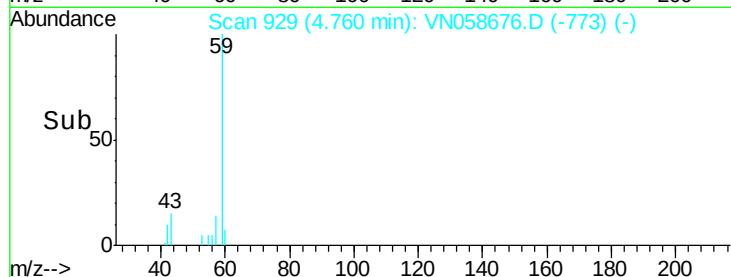
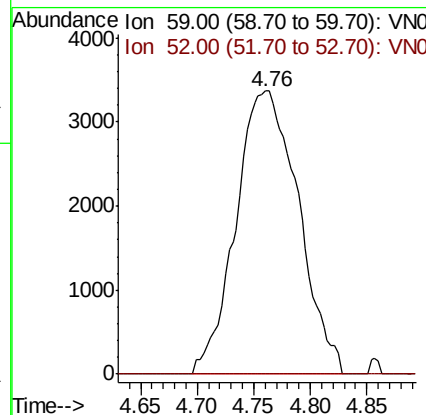
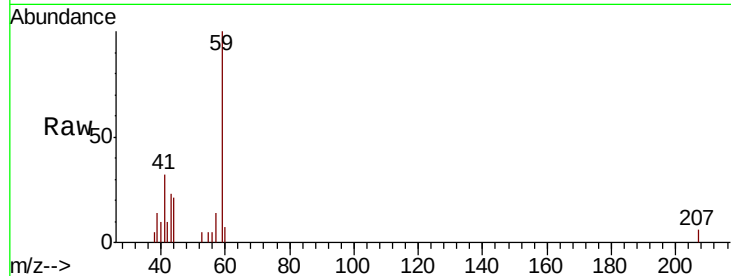
tert-Butyl Alcohol
Concen: 13.559 ug/l
RT: 4.76 min Scan# 929
Delta R.T. 0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
59	100	12918		
52	0.0	0.0	0.0	0.0

Manual Integrations
APPROVED

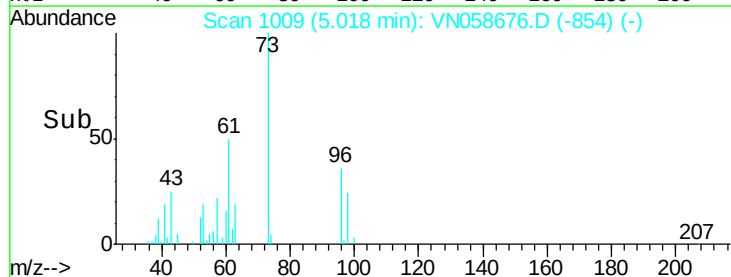
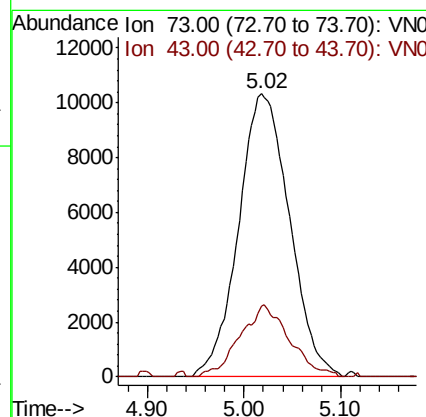
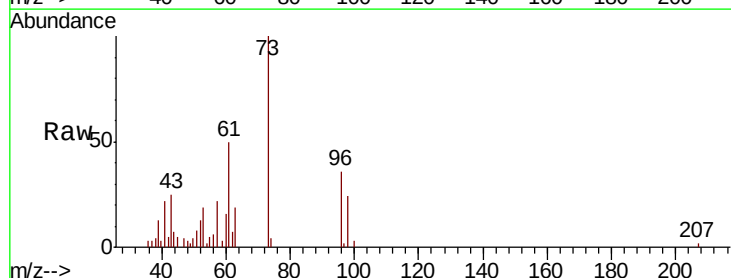
MMDadoda
10/11/2019 2:47:37 PM

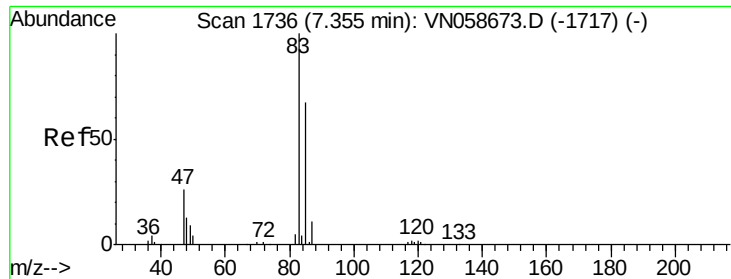


#24

Methyl tert-Butyl Ether
Concen: 2.742 ug/l
RT: 5.02 min Scan# 1009
Delta R.T. -0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Tgt Ion	Ratio	Resp	Lower	Upper
73	100	37800		
43	24.7	17.9	26.9	





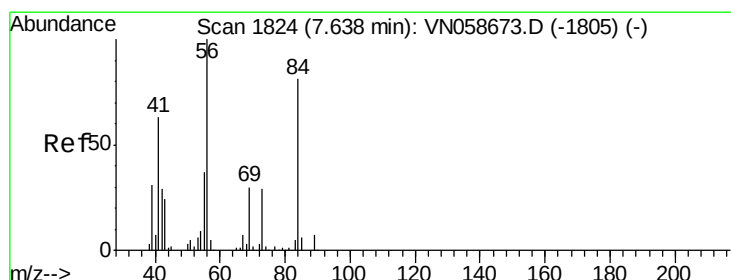
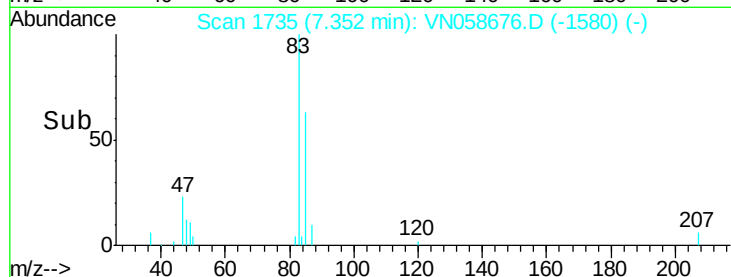
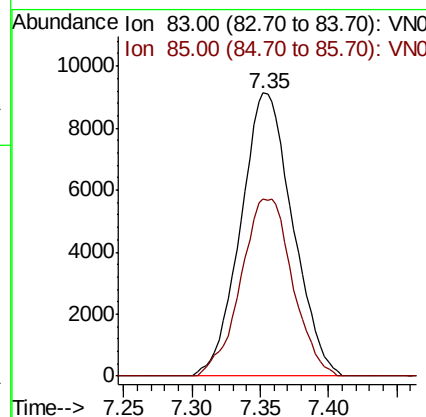
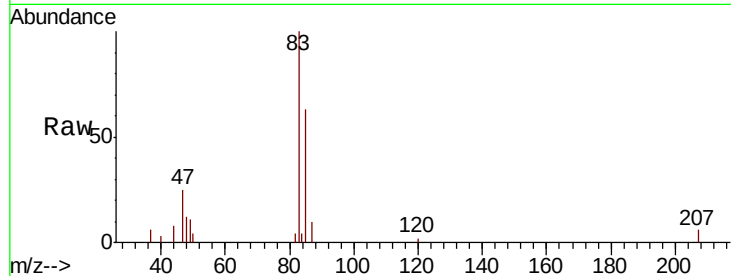
#25
Chloroform
Concen: 2.919 ug/l
RT: 7.35 min Scan# 1735
Delta R.T. -0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	83	Resp	24153
Ion Ratio	Lower	Upper	
83	100		
85	62.7	53.8	80.8

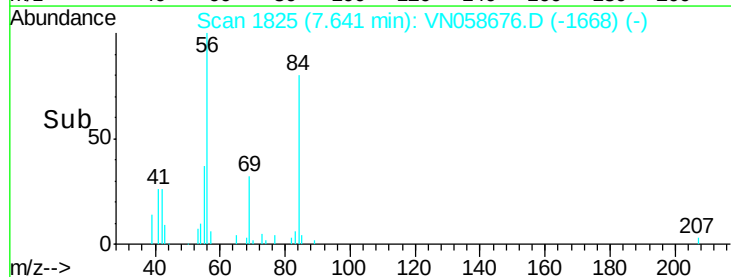
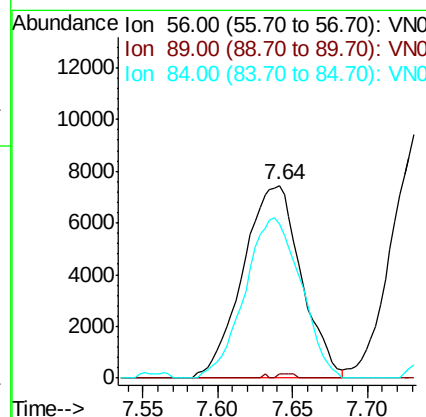
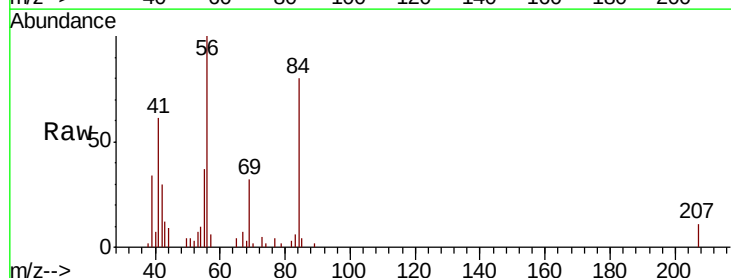
Manual Integrations
APPROVED

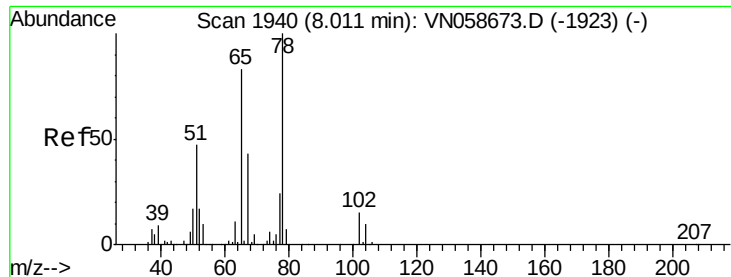
MMDadoda
10/11/2019 2:47:37 PM



#26
Cyclohexane
Concen: 2.777 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Tgt Ion	56	Resp	20224
Ion Ratio	Lower	Upper	
56	100		
89	0.6	6.2	9.2#
84	79.9	65.6	98.4





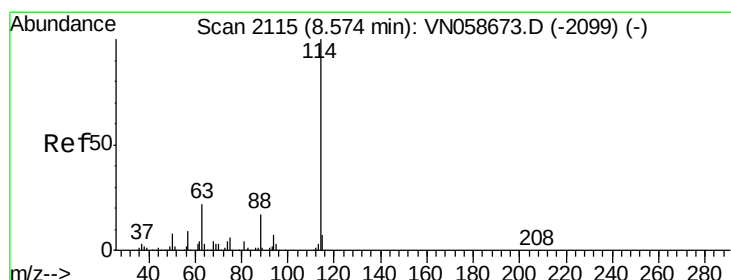
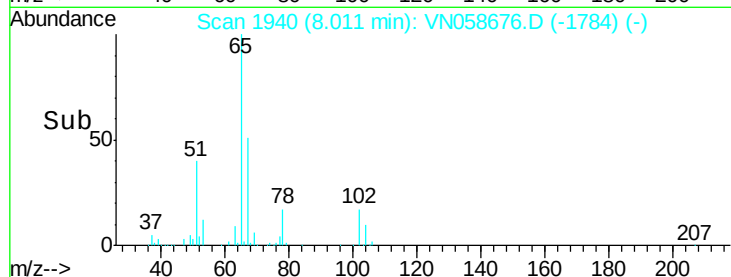
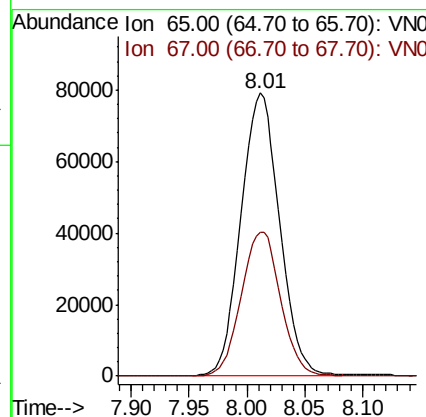
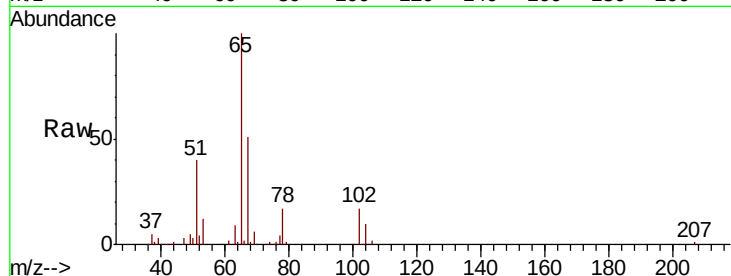
#27
 1,2-Dichloroethane-d4
 Concen: 30.722 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058676.D
 Acq: 10 Oct 2019 20:02

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
65	100	184130		
67	51.7	41.5	62.3	

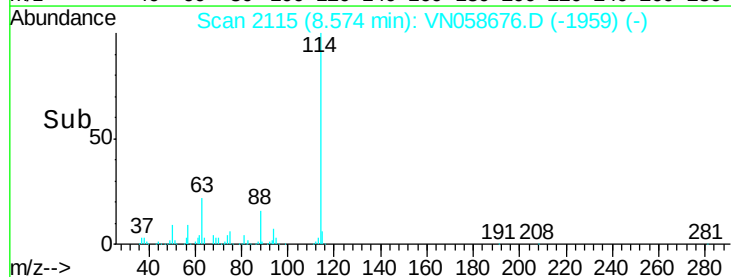
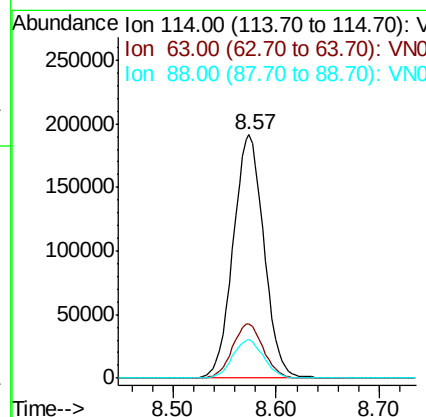
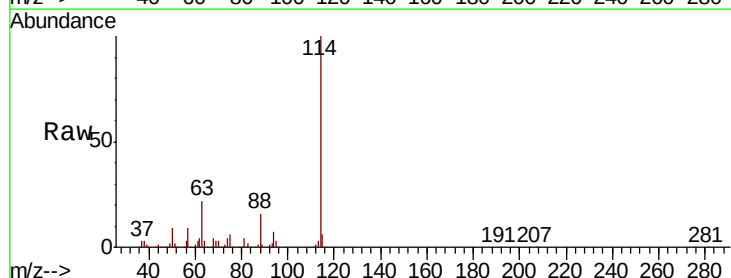
Manual Integrations
 APPROVED

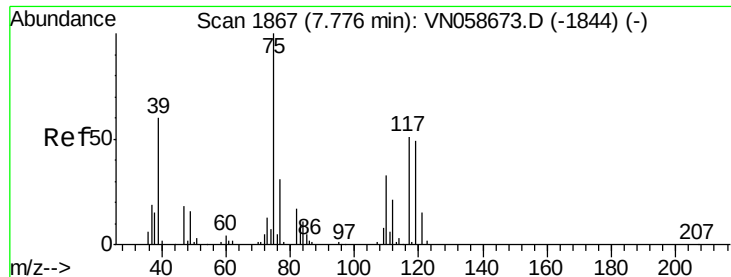
MMDadoda
 10/11/2019 2:47:37 PM



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058676.D
 Acq: 10 Oct 2019 20:02

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	397119		
63	22.3	18.1	27.1	
88	15.9	13.0	19.4	





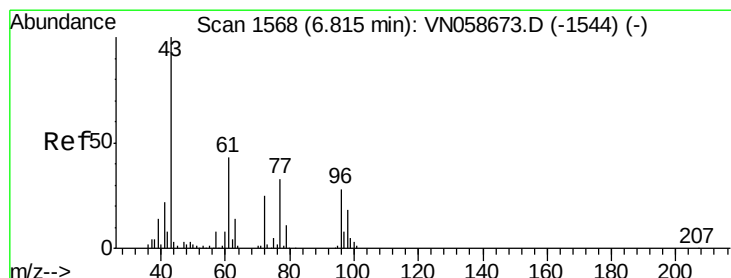
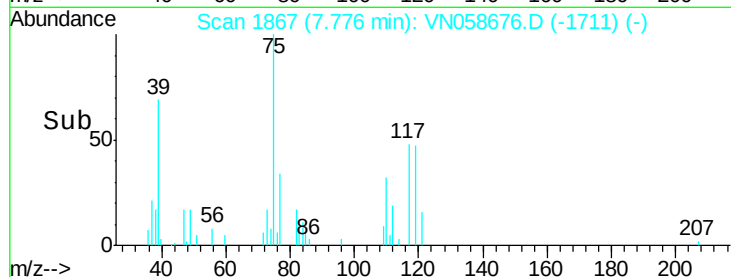
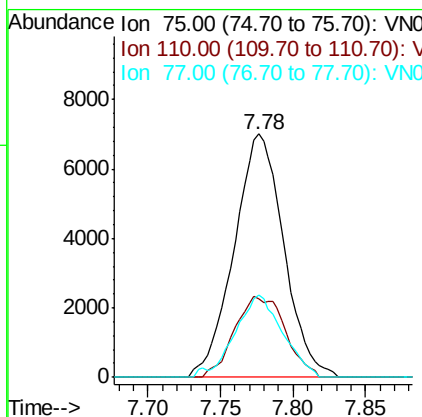
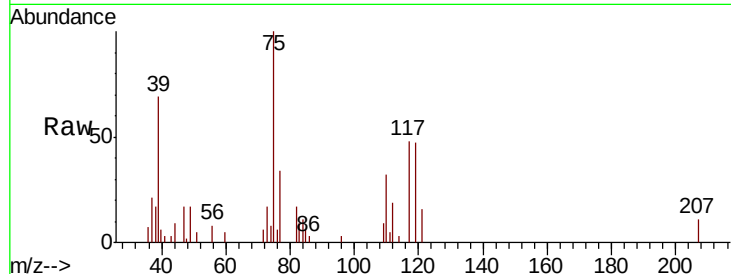
#29
 1,1-Dichloropropene
 Concen: 2.668 ug/l
 RT: 7.78 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN058676.D
 Acq: 10 Oct 2019 20:02

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
75	100			
110	19.8	0.0	64.6	
77	31.6	0.0	60.8	

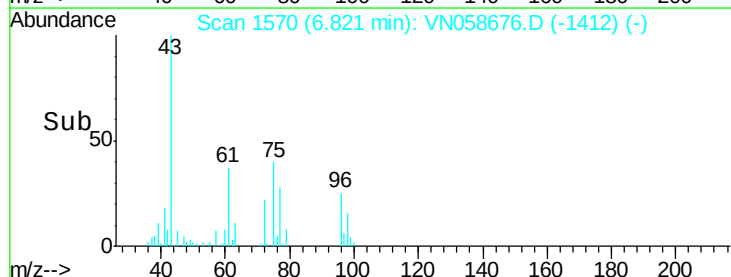
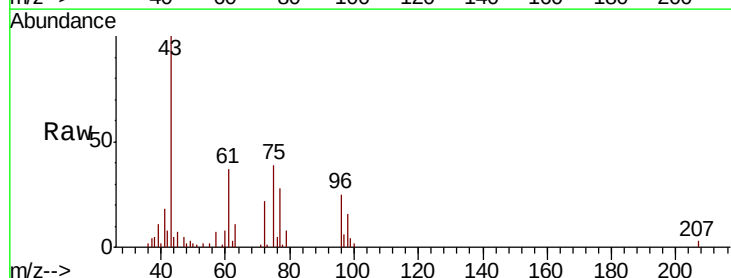
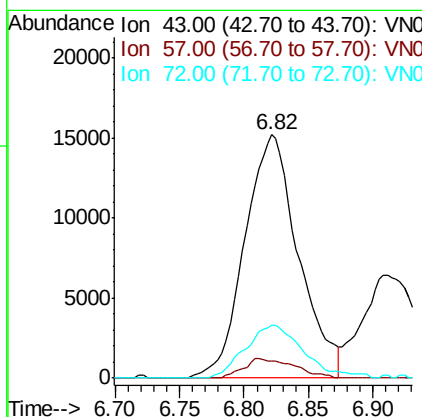
Manual Integrations
 APPROVED

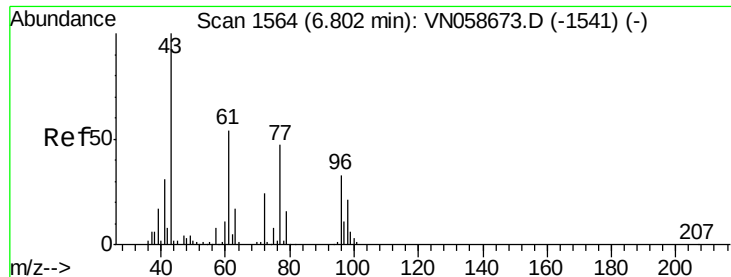
MMDadoda
 10/11/2019 2:47:37 PM



#30
 2-Butanone
 Concen: 12.457 ug/l
 RT: 6.82 min Scan# 1570
 Delta R.T. 0.01 min
 Lab File: VN058676.D
 Acq: 10 Oct 2019 20:02

Tgt Ion	Ratio	Resp	Lower	Upper
43	100			
57	7.3	6.5	9.7	
72	23.3	20.1	30.1	





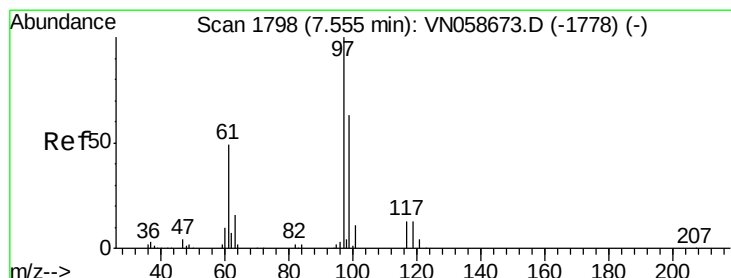
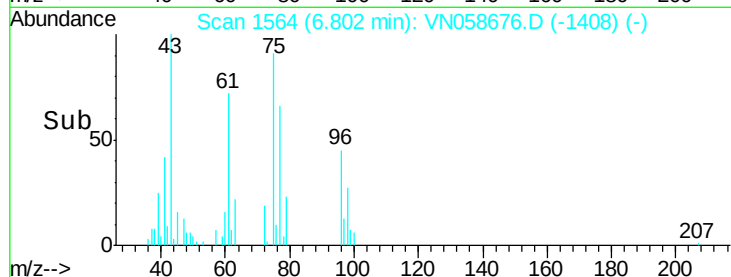
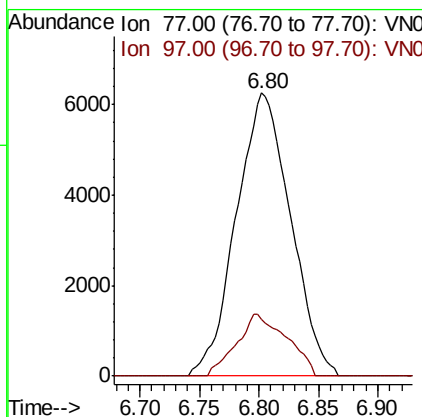
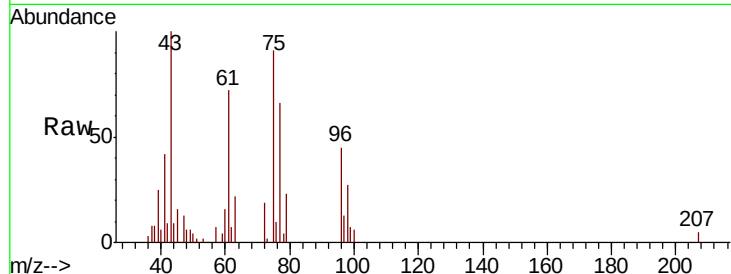
#31
 2,2-Dichloropropane
 Concen: 2.686 ug/l
 RT: 6.80 min Scan# 1564
 Delta R.T. 0.00 min
 Lab File: VN058676.D
 Acq: 10 Oct 2019 20:02

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tot Ion	77	Resp	19792
Ion Ratio	Lower	Upper	
77	100		
97	20.3	17.9	26.9

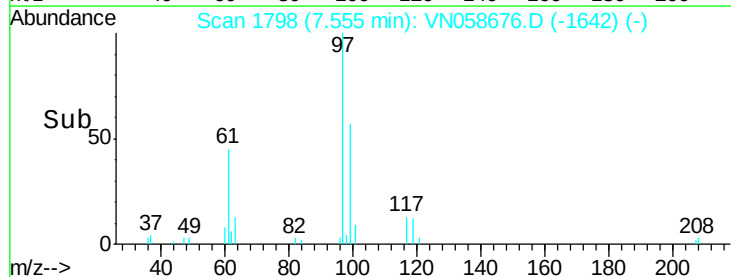
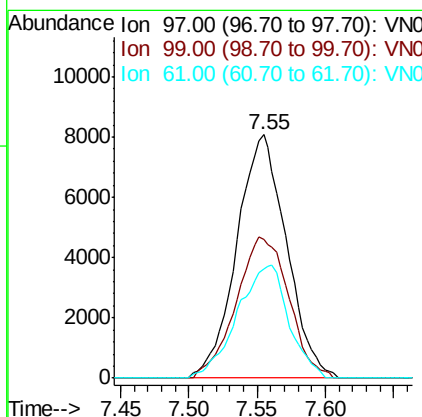
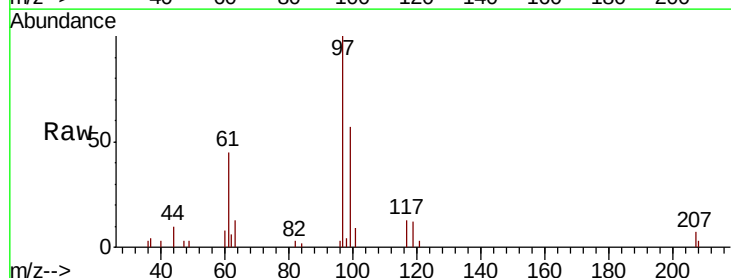
Manual Integrations
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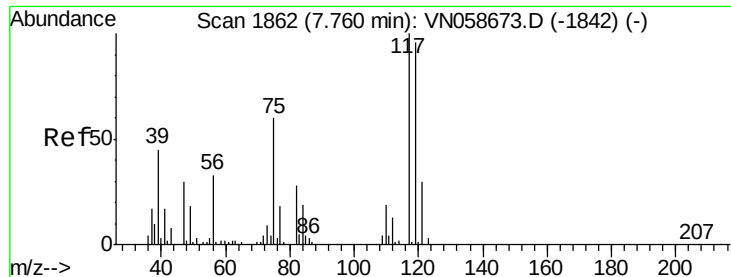
MMDadoda
 10/11/2019 2:47:37 PM



#32
 1,1,1-Trichloroethane
 Concen: 2.825 ug/l
 RT: 7.55 min Scan# 1798
 Delta R.T. 0.00 min
 Lab File: VN058676.D
 Acq: 10 Oct 2019 20:02

Tgt Ion	97	Resp	20427
Ion Ratio	Lower	Upper	
97	100		
99	61.3	51.3	76.9
61	48.1	38.4	57.6





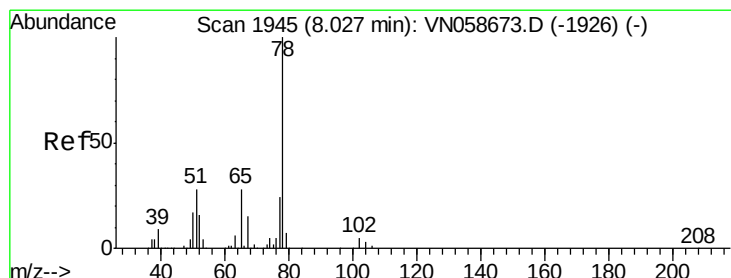
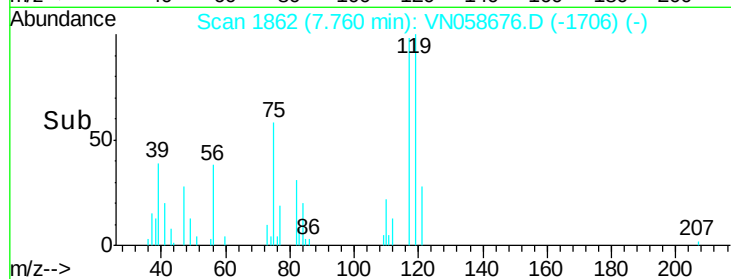
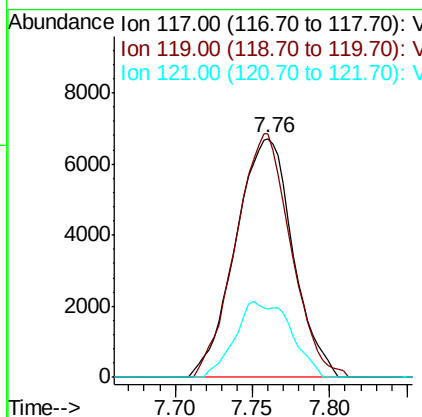
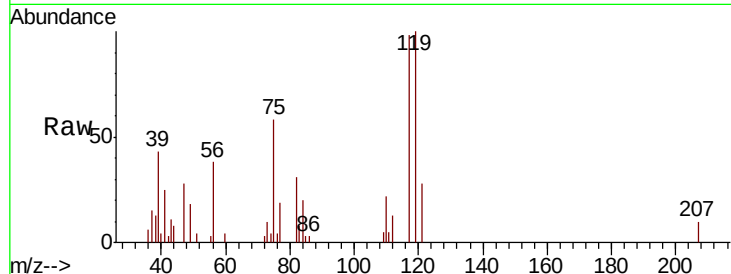
#33
Carbon Tetrachloride
Concen: 2.760 ug/l
RT: 7.76 min Scan# 1862
Delta R.T. -0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
117	100		
119	101.8	76.9	115.3
121	28.8	23.8	35.8

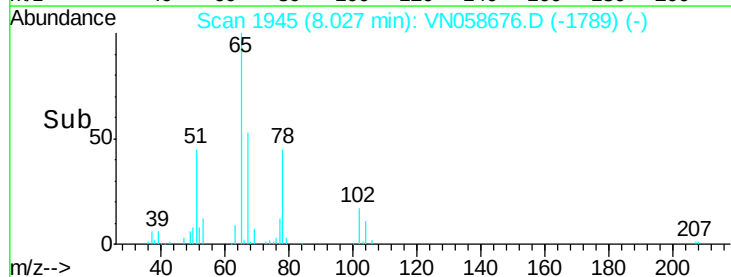
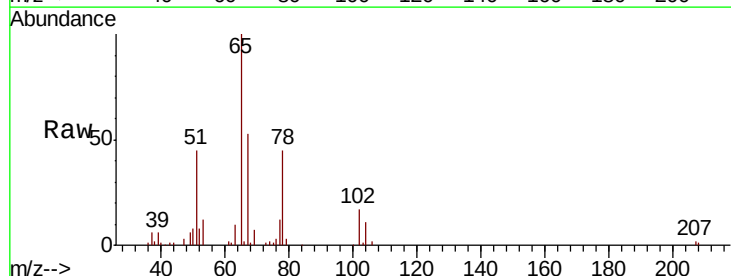
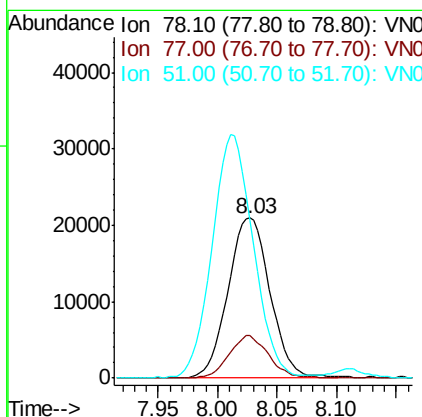
Manual Integrations
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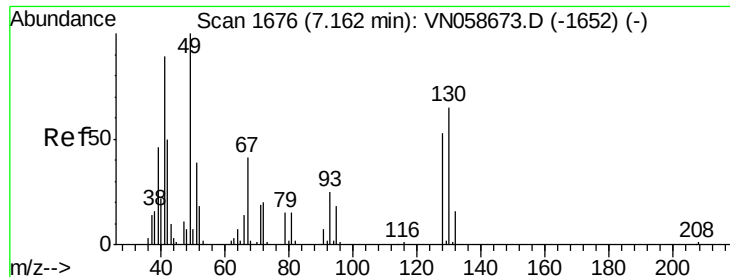
MMDadoda
10/11/2019 2:47:37 PM



#34
Benzene
Concen: 2.788 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Tgt Ion	Ratio	Lower	Upper
78	100		
77	26.6	19.2	28.8
51	94.6	22.1	33.1#





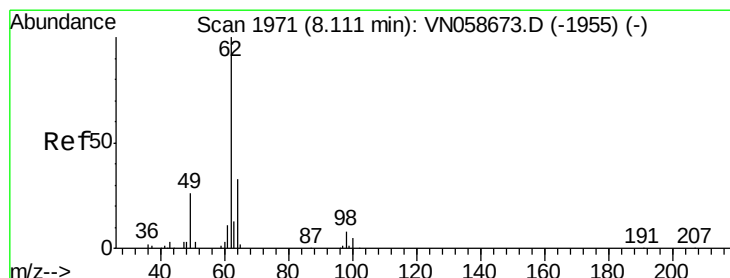
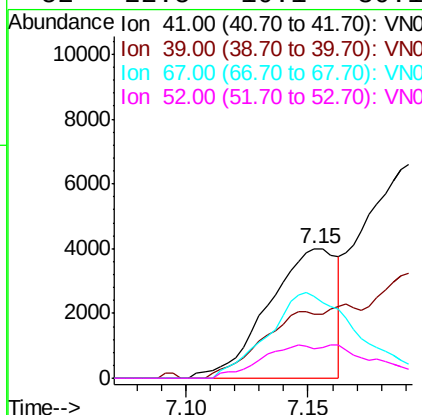
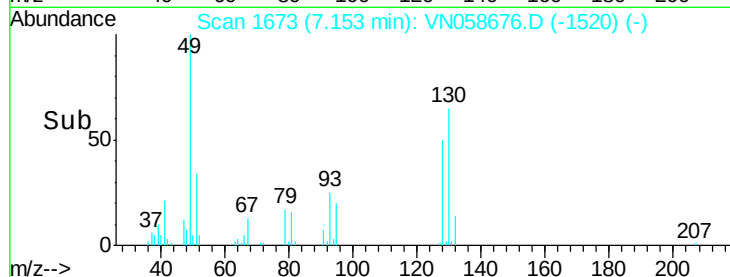
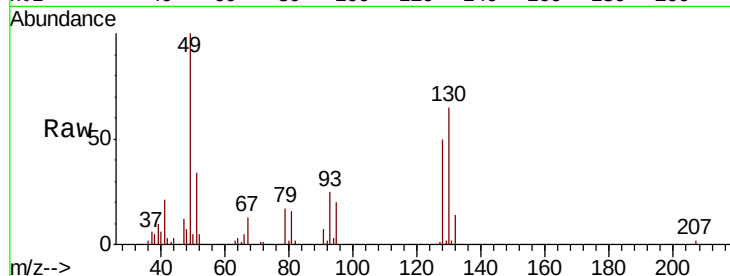
#35
Methacrylonitrile
Concen: 2.504 ug/l
RT: 7.15 min Scan# 1673
Delta R.T. -0.01 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
41	100		
39	49.3	25.8	77.4
67	62.6	23.0	69.0
52	22.5	10.1	30.1

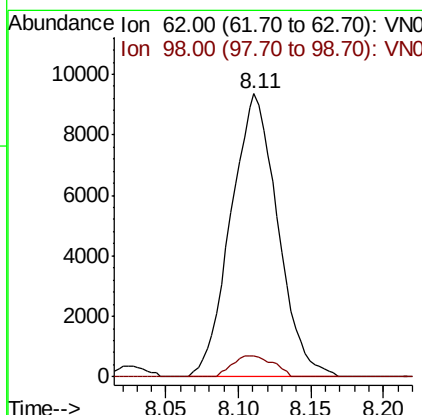
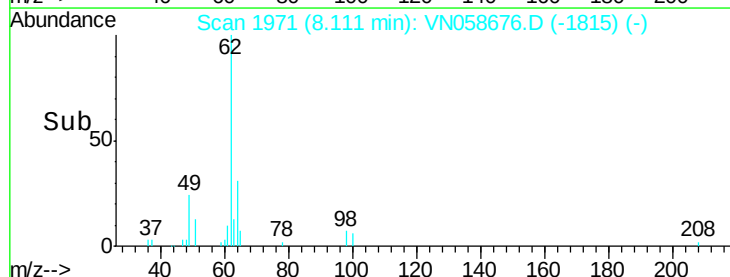
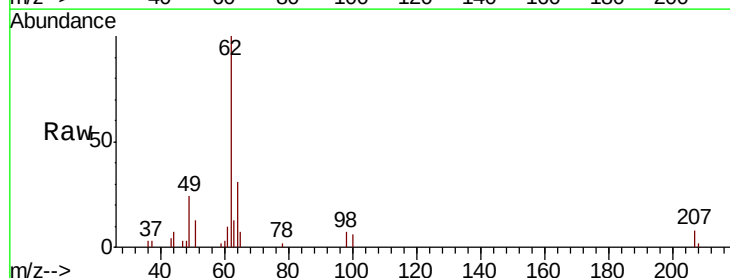
Manual Integrations
APPROVED

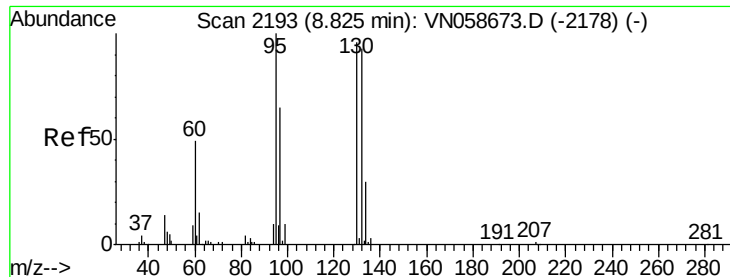
MMDadoda
10/11/2019 2:47:37 PM



#36
1,2-Dichloroethane
Concen: 2.985 ug/l
RT: 8.11 min Scan# 1971
Delta R.T. -0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Tgt Ion	Ratio	Lower	Upper
62	100		
98	6.5	6.4	9.6





#37

Trichloroethene

Concen: 2.820 ug/l

RT: 8.83 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:130 Resp: 12751

Ion Ratio Lower Upper

130 100

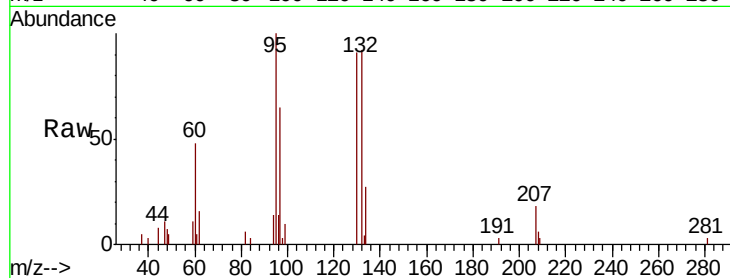
95 110.2 83.2 124.8

Manual Integrations

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Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VN

8.83

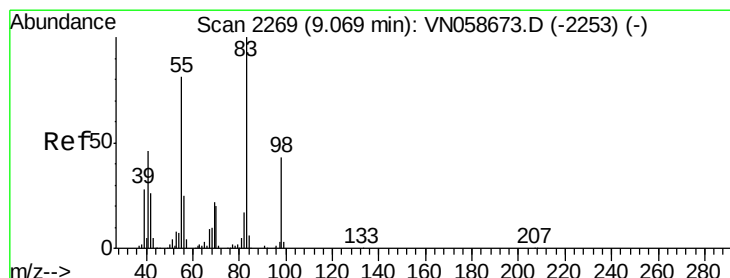
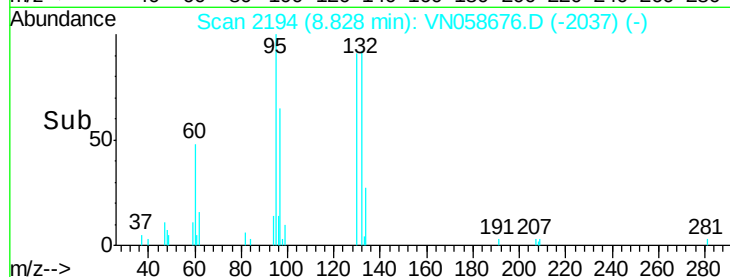
6000

4000

2000

0

Time--> 8.75 8.80 8.85



#38

Methylcyclohexane

Concen: 2.649 ug/l

RT: 9.07 min Scan# 2269

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

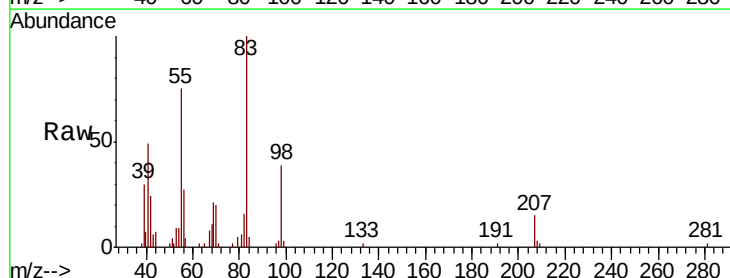
Tgt Ion: 83 Resp: 19200

Ion Ratio Lower Upper

83 100

55 81.6 40.4 121.1

98 44.3 21.6 65.0



Abundance Ion 83.00 (82.70 to 83.70): VN

Ion 55.00 (54.70 to 55.70): VN

Ion 98.00 (97.70 to 98.70): VN

9.07

12000

10000

8000

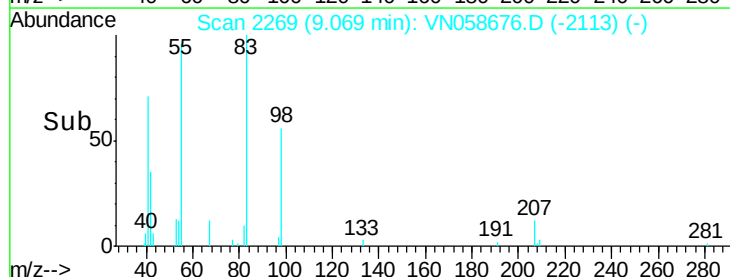
6000

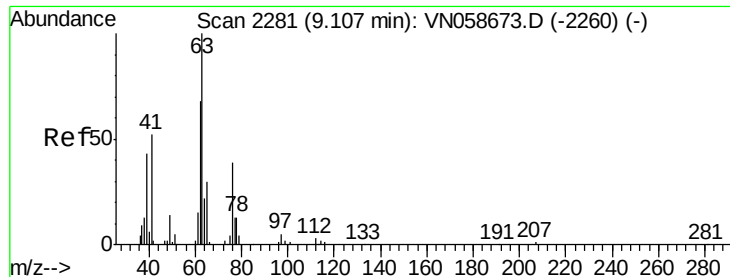
4000

2000

0

Time--> 9.00 9.05 9.10 9.15





#39

1,2-Dichloropropane

Concen: 2.721 ug/l

RT: 9.11 min Scan# 2281

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 63 Resp: 13686

Ion Ratio Lower Upper

63 100

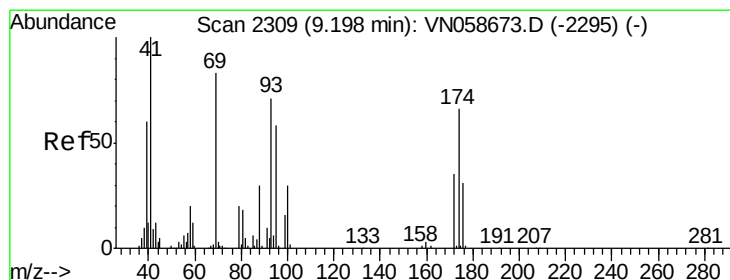
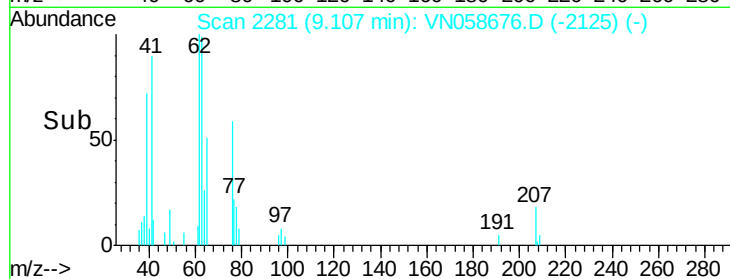
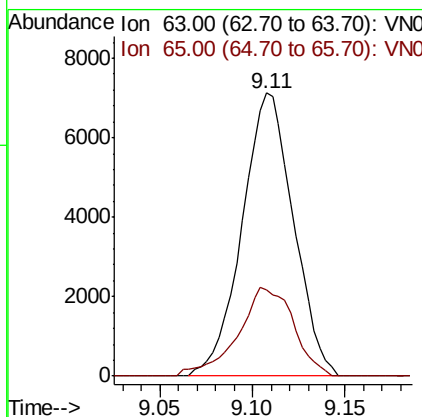
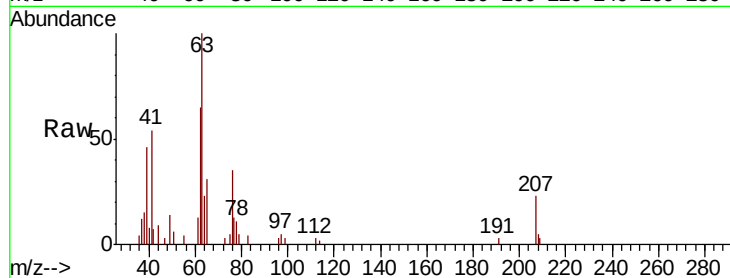
65 30.7 23.8 35.6

Manual Integrations

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MMDadoda

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#40

Dibromomethane

Concen: 2.839 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

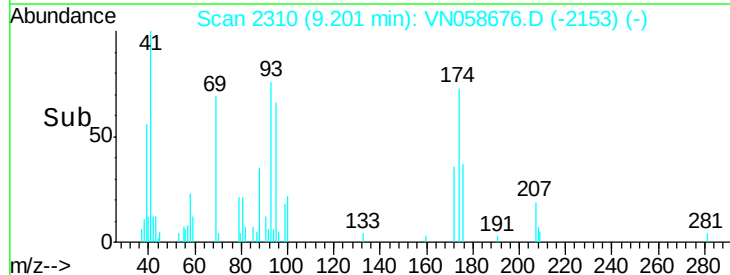
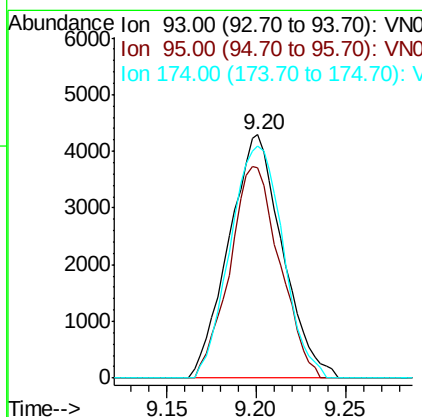
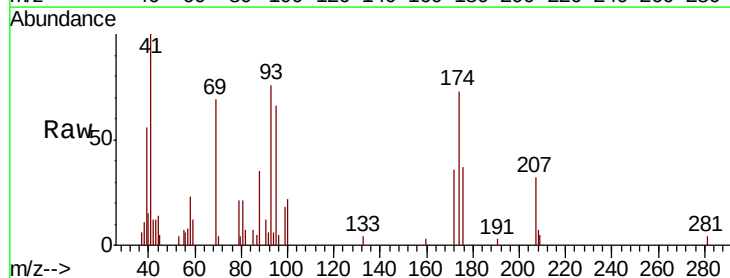
Tgt Ion: 93 Resp: 9014

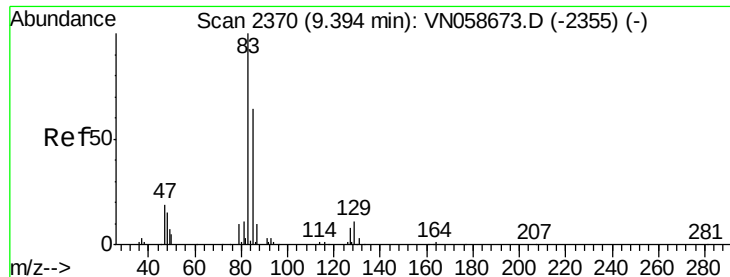
Ion Ratio Lower Upper

93 100

95 80.8 0.0 167.6

174 93.9 0.0 187.2





#41

Bromodichloromethane

Concen: 2.587 ug/l

RT: 9.39 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

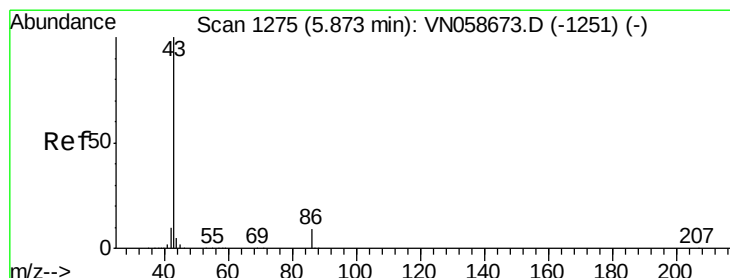
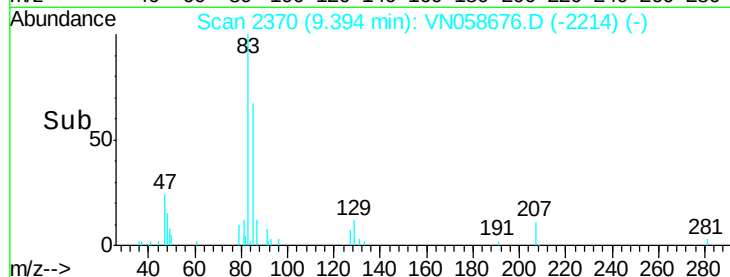
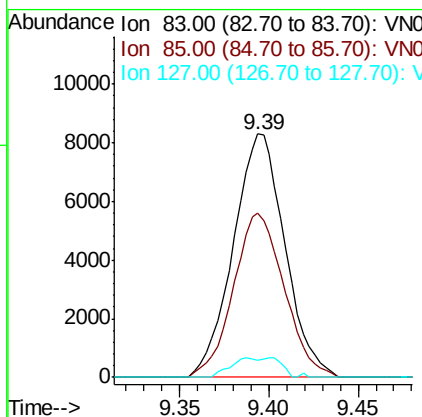
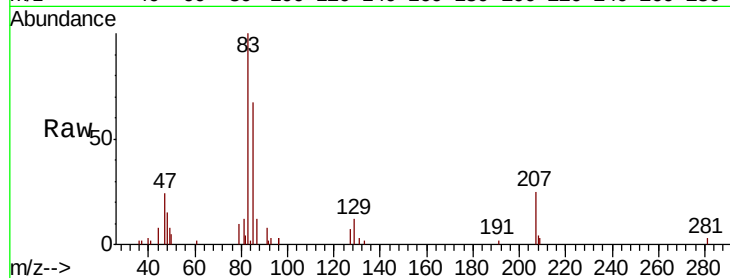
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:	83	Resp:	16778
Ion Ratio	Lower	Upper	
83	100		
85	67.5	51.0	76.4
127	7.1	6.6	9.8

Manual Integrations
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MMDadoda
10/11/2019 2:47:37 PM



#42

Vinyl Acetate

Concen: 12.988 ug/l

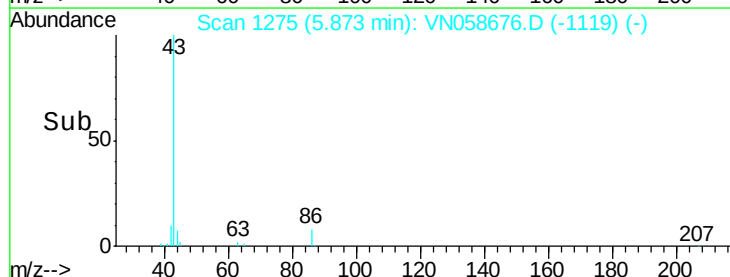
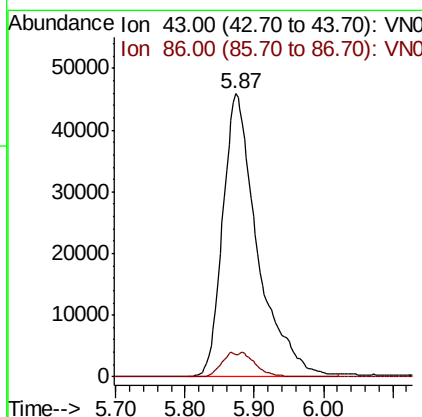
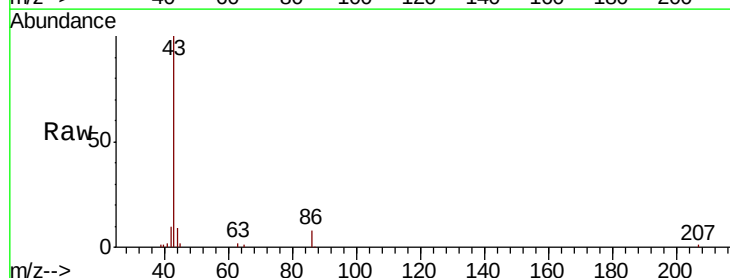
RT: 5.87 min Scan# 1275

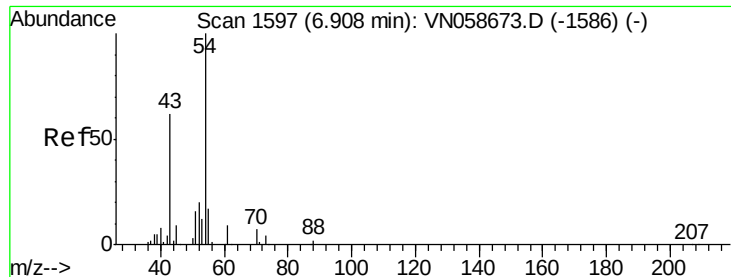
Delta R.T. -0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Tgt Ion:	43	Resp:	160688
Ion Ratio	Lower	Upper	
43	100		
86	3.6	6.5	9.7#





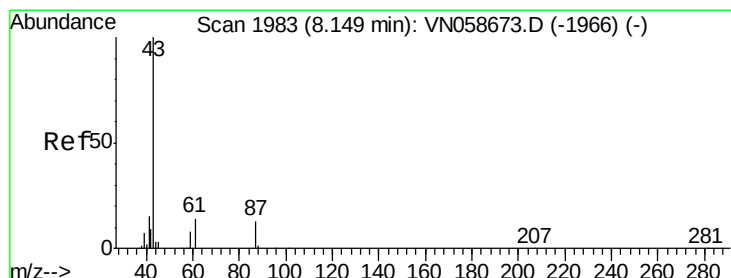
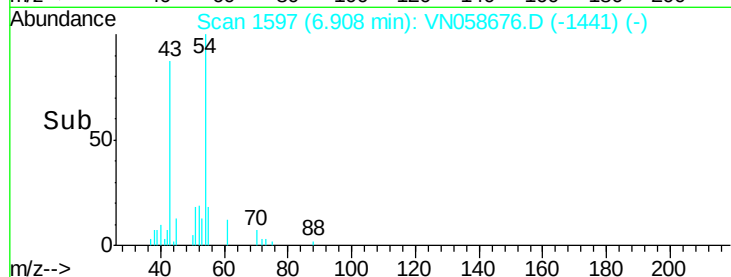
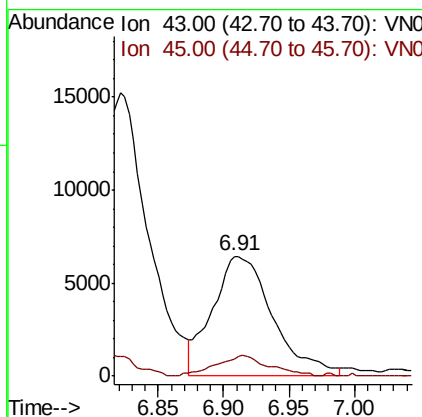
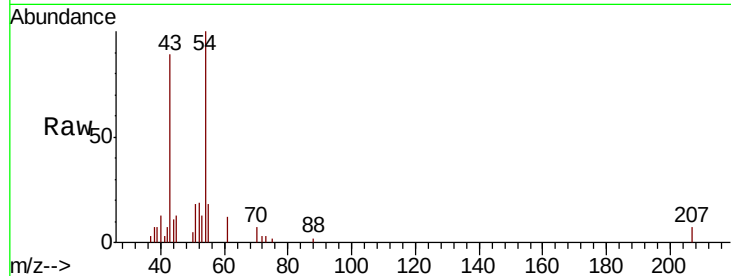
#43
Ethyl Acetate
Concen: 3.005 ug/l m
RT: 6.91 min Scan# 1597
Delta R.T. 0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 43 Resp: 20835
Ion Ratio Lower Upper
43 100
45 24.1 9.7 14.5#

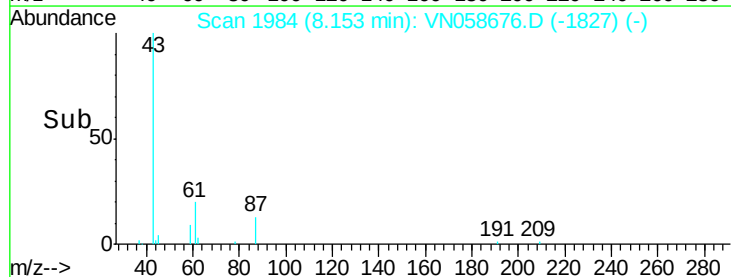
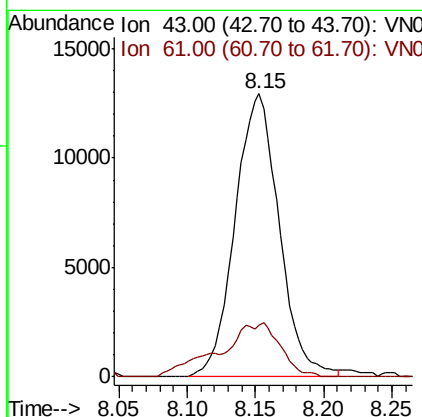
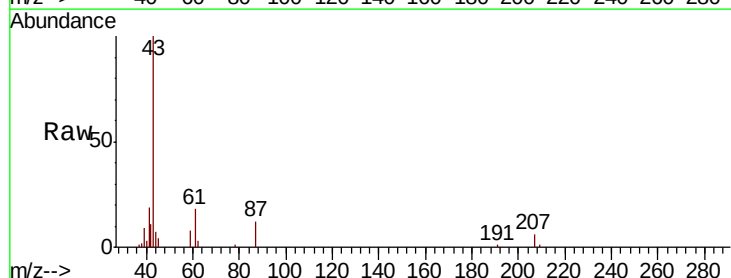
Manual Integrations
APPROVED

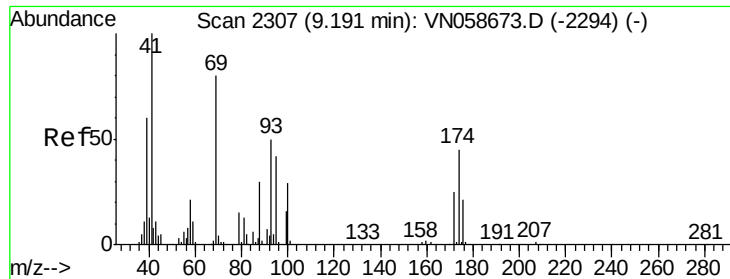
MMDadoda
10/11/2019 2:47:37 PM



#44
Isopropyl Acetate
Concen: 2.590 ug/l
RT: 8.15 min Scan# 1984
Delta R.T. 0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Tgt Ion: 43 Resp: 29092
Ion Ratio Lower Upper
43 100
61 3.9 19.9 29.9#





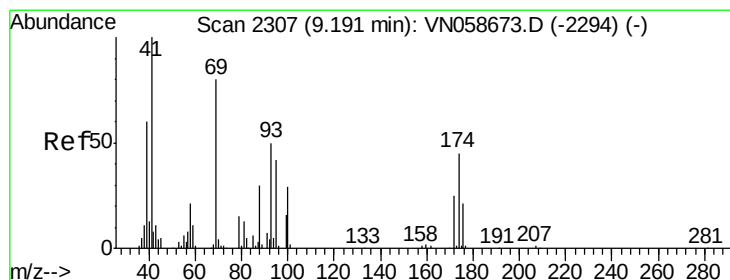
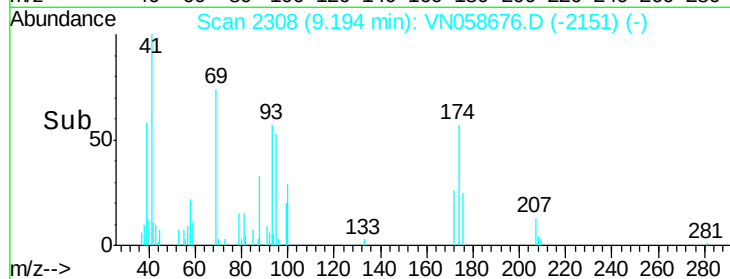
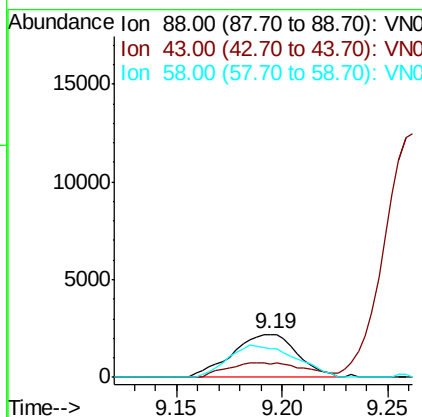
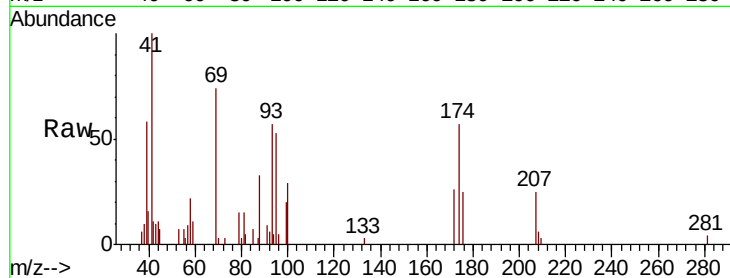
#45
1,4-Dioxane
Concen: 54.766 ug/l
RT: 9.19 min Scan# 2308
Delta R.T. 0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	88	Resp	4723
Ion	Ratio	Lower	Upper
88	100		
43	22.9	29.8	44.8#
58	77.1	58.2	87.4

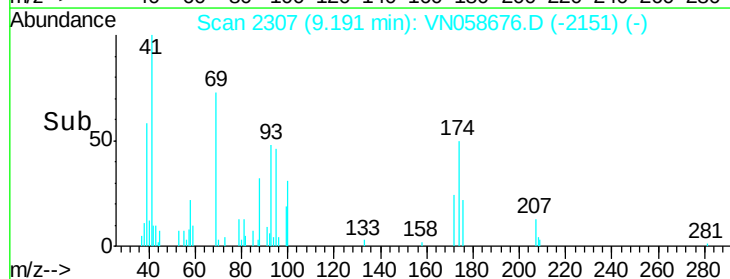
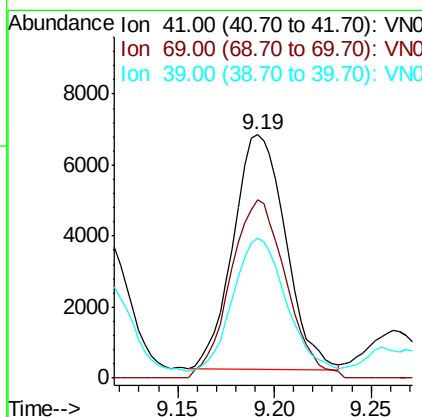
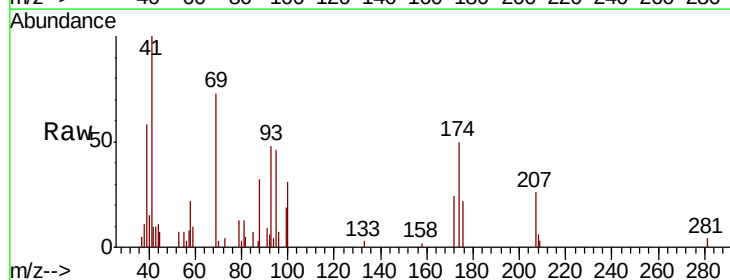
Manual Integrations
APPROVED

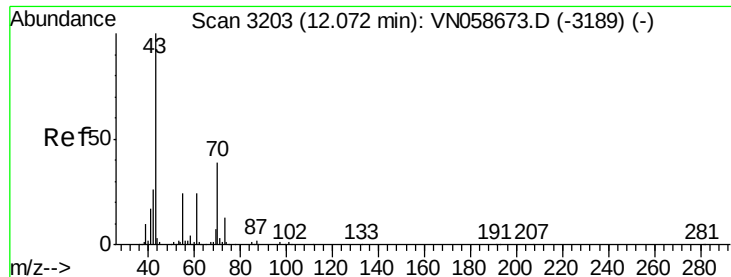
MMDadoda
10/11/2019 2:47:37 PM



#46
Methyl methacrylate
Concen: 2.417 ug/l
RT: 9.19 min Scan# 2307
Delta R.T. 0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Tgt Ion	41	Resp	12461
Ion	Ratio	Lower	Upper
41	100		
69	76.3	40.2	120.5
39	57.1	29.9	89.8





#47

n-amvl Acetate

Concen: 2.130 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 43 Resp: 21208

Ion Ratio Lower Upper

43 100

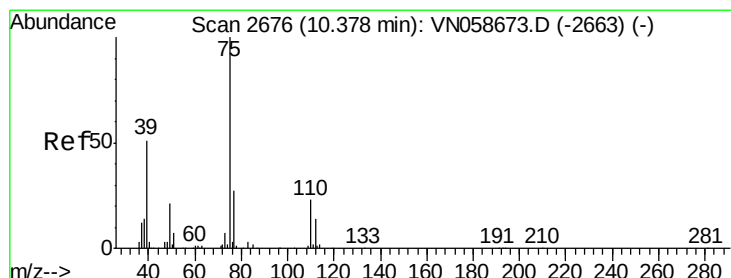
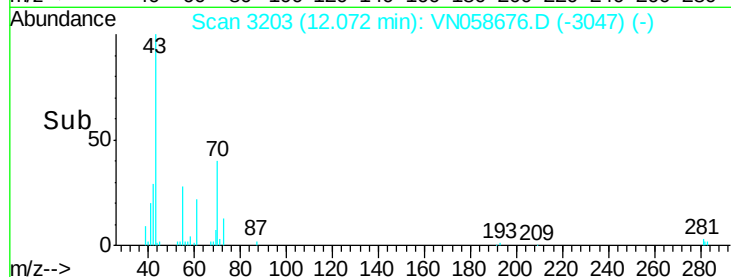
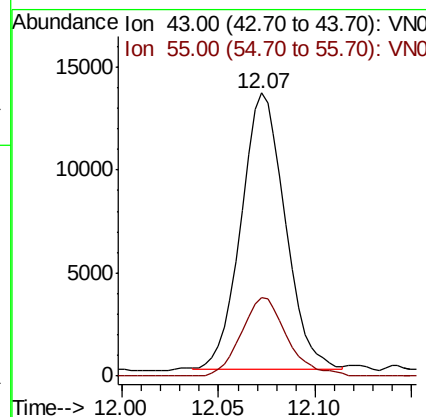
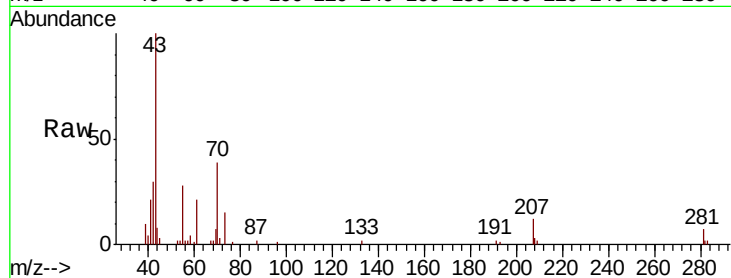
55 29.7 19.6 29.4#

Manual Integrations

APPROVED

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#48

t-1,3-Dichloropropene

Concen: 2.619 ug/l m

RT: 10.38 min Scan# 2676

Delta R.T. 0.00 min

Lab File: VN058676.D

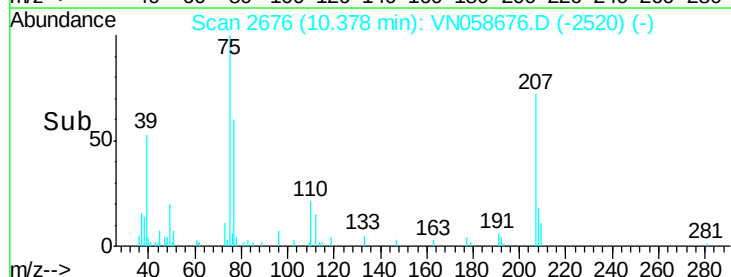
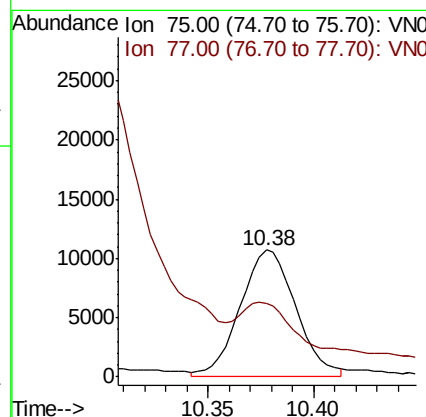
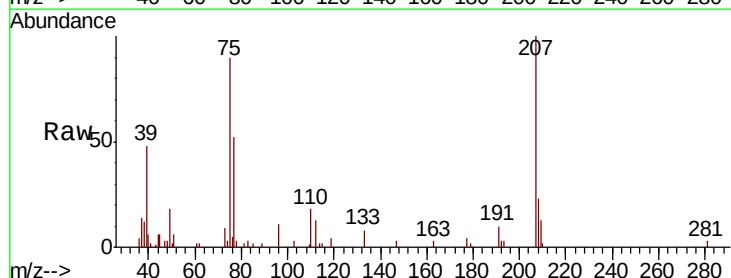
Acq: 10 Oct 2019 20:02

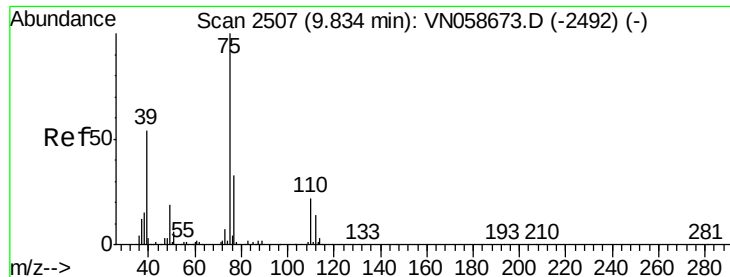
Tgt Ion: 75 Resp: 19702

Ion Ratio Lower Upper

75 100

77 58.1 27.0 40.4#





#49

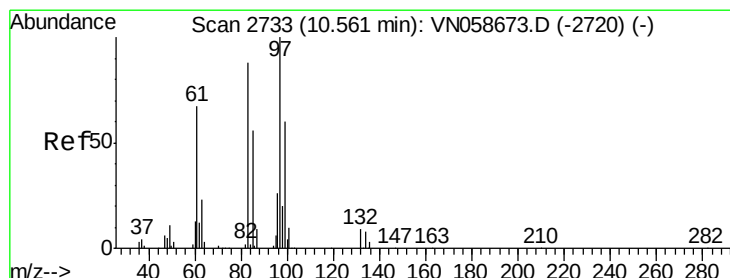
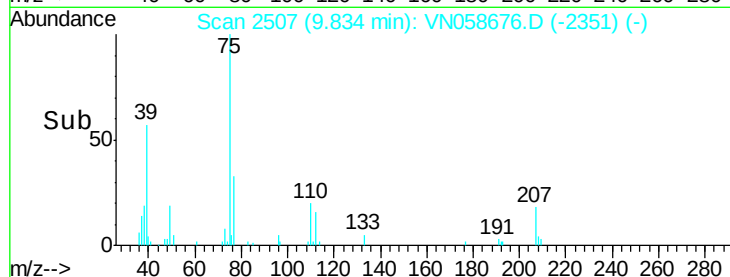
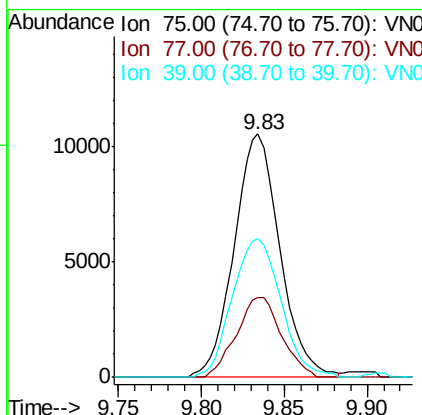
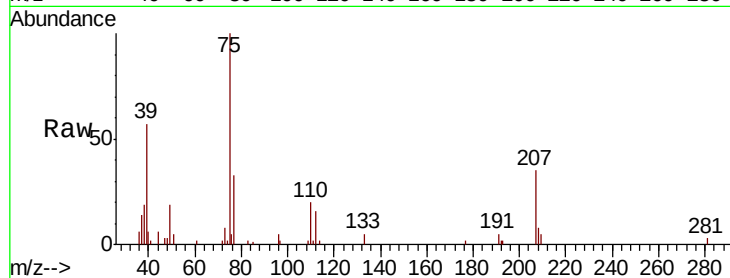
cis-1,3-Dichloropropene
Concen: 2.561 ug/l
RT: 9.83 min Scan# 2507
Delta R.T. 0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
75	100		
77	33.0	26.1	39.1
39	56.7	43.1	64.7

Manual Integrations
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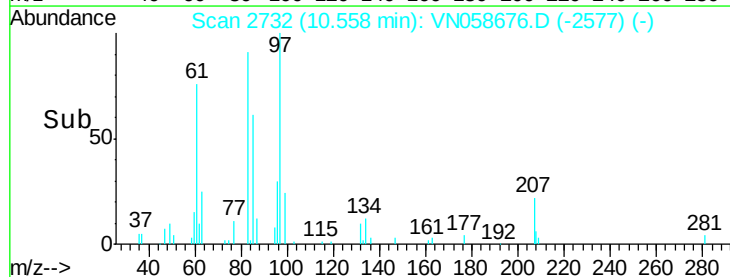
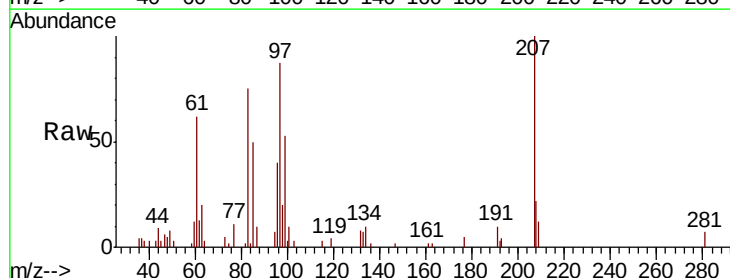
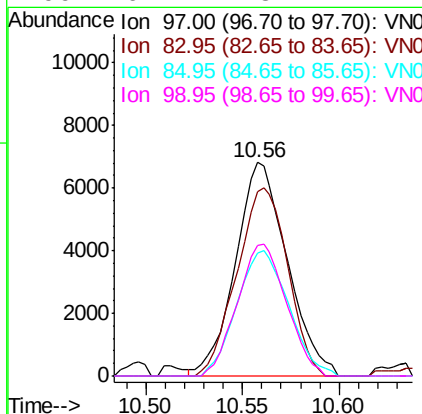
MMDadoda
10/11/2019 2:47:37 PM

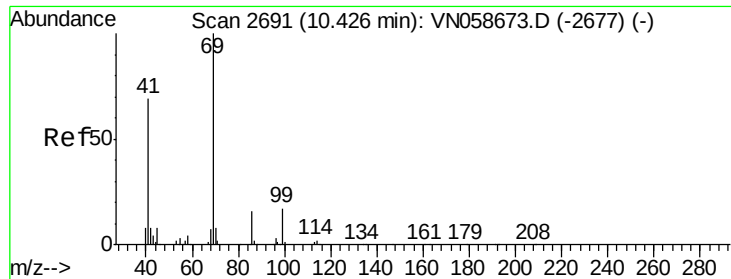


#50

1,1,2-Trichloroethane
Concen: 2.801 ug/l
RT: 10.56 min Scan# 2732
Delta R.T. -0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Tgt Ion	Ratio	Lower	Upper
97	100		
83	86.1	70.7	106.1
85	57.3	45.1	67.7
99	61.2	48.2	72.4





#51

Ethyl methacrylate

Concen: 2.241 ug/l

RT: 10.43 min Scan# 2691

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

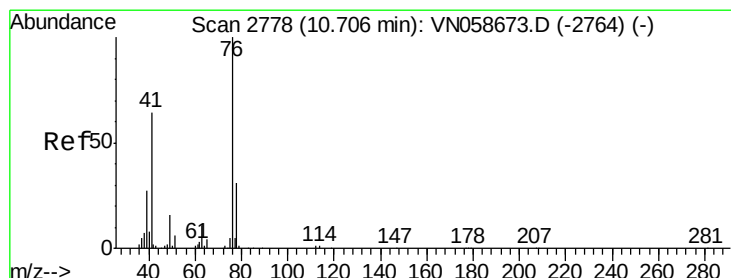
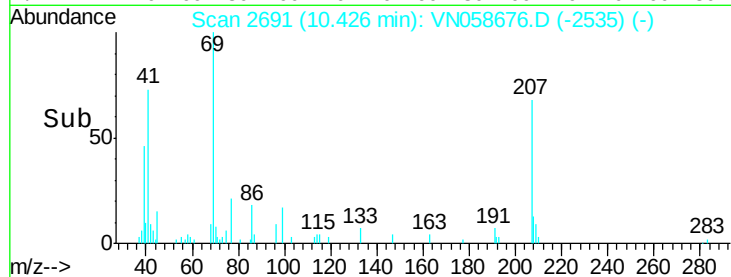
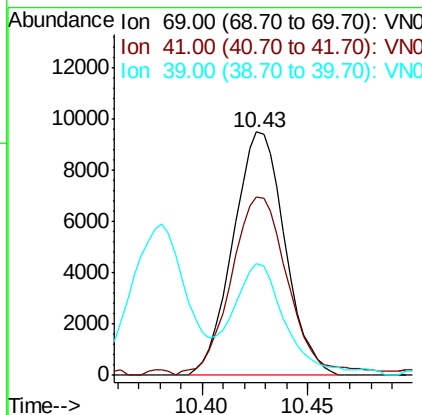
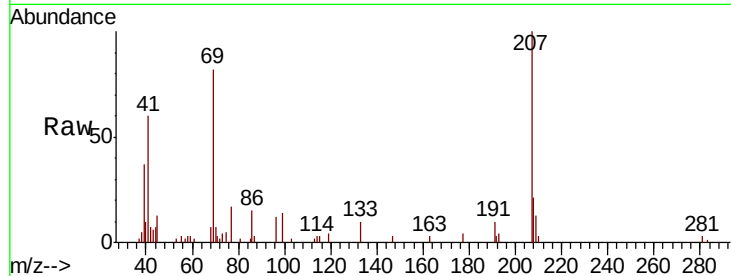
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:	69	Resp:	16245
Ion	Ratio	Lower	Upper
69	100		
41	71.4	34.7	104.1
39	42.5	20.3	60.8

Manual Integrations
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MMDadoda
10/11/2019 2:47:37 PM



#52

1,3-Dichloropropane

Concen: 2.612 ug/l

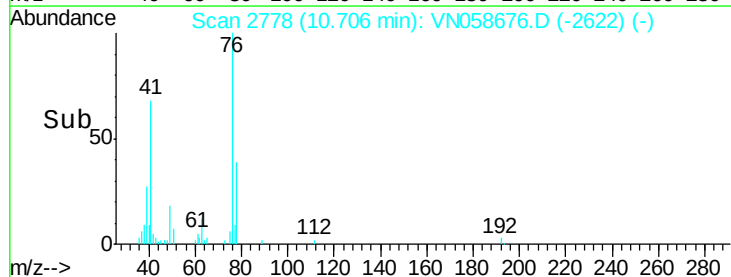
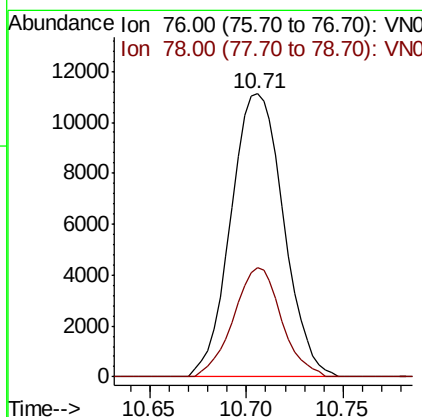
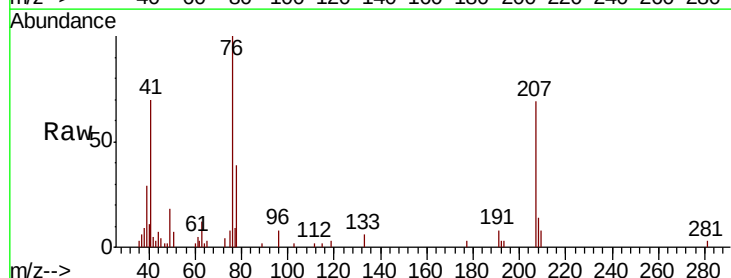
RT: 10.71 min Scan# 2778

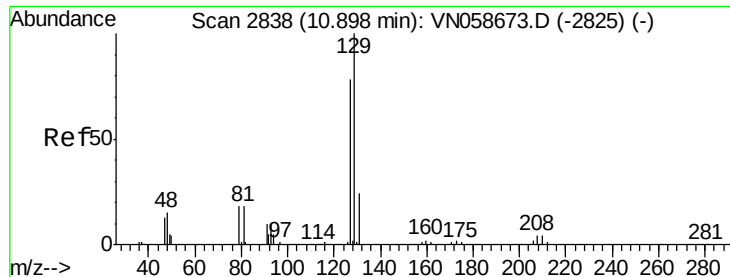
Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Tgt Ion:	76	Resp:	21087
Ion	Ratio	Lower	Upper
76	100		
78	35.1	0.0	63.2





#53

Dibromochloromethane

Concen: 2.410 ug/l

RT: 10.90 min Scan# 2838

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:129 Resp: 11721

Ion Ratio Lower Upper

129 100

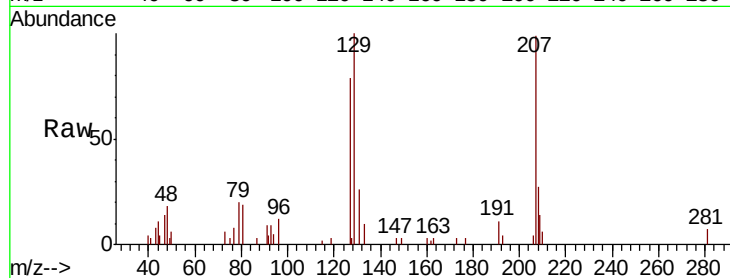
127 80.3 39.1 117.5

Manual Integrations

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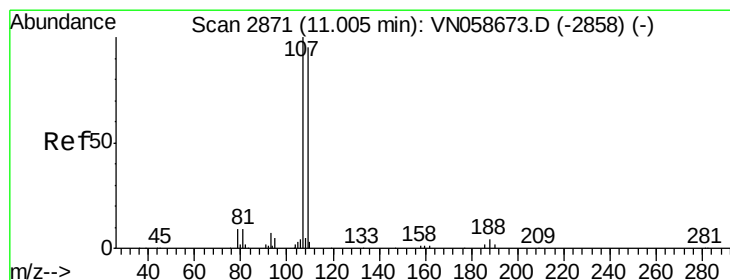
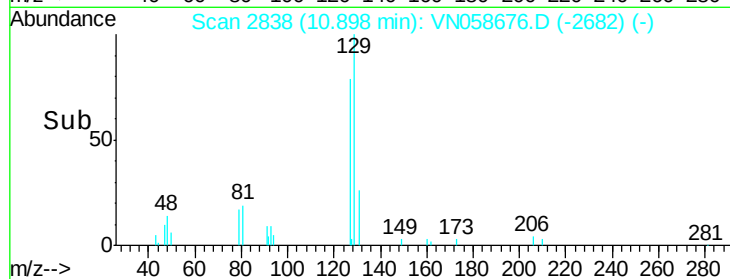
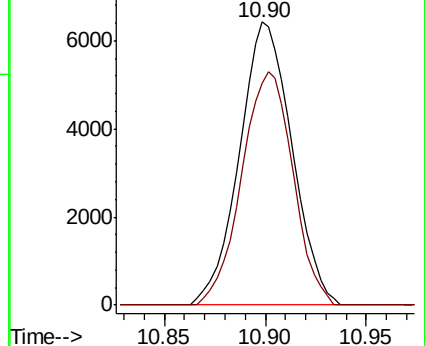
MMDadoda

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Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#54

1,2-Dibromoethane

Concen: 2.597 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VN058676.D

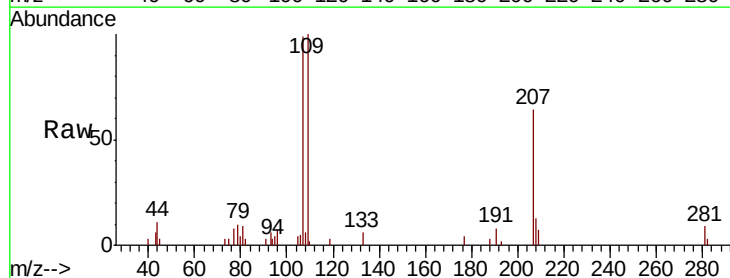
Acq: 10 Oct 2019 20:02

Tgt Ion:107 Resp: 12199

Ion Ratio Lower Upper

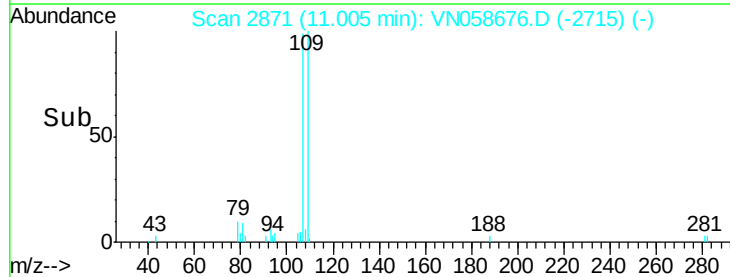
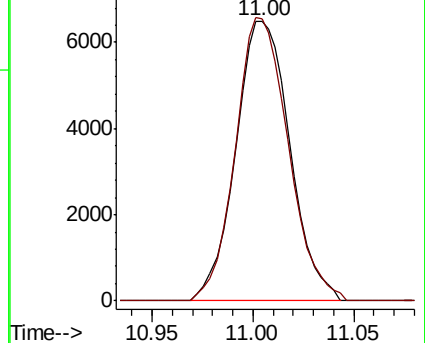
107 100

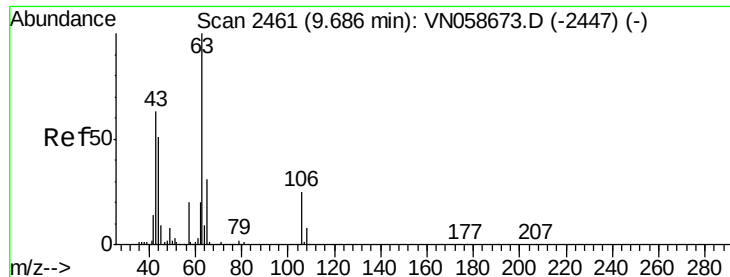
109 99.1 76.2 114.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





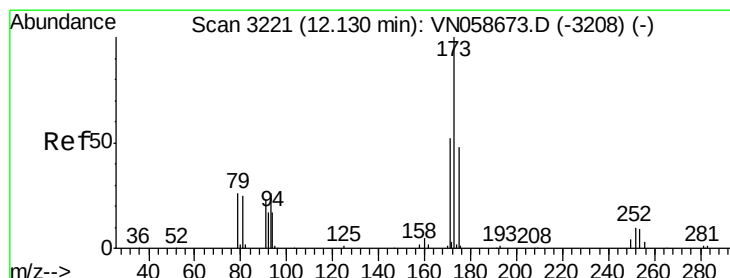
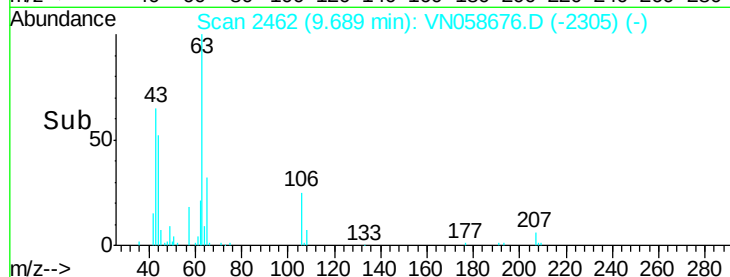
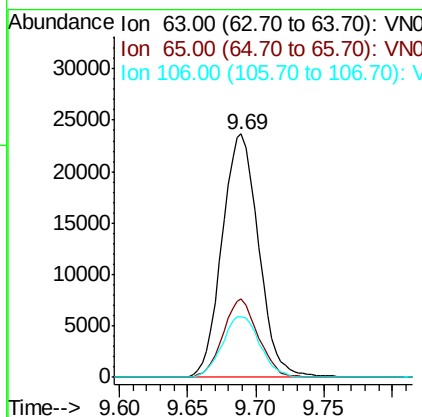
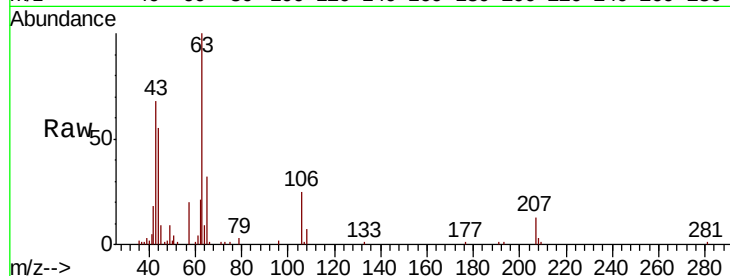
#55
2-Chloroethyl vinyl ether
Concen: 12.219 ug/l
RT: 9.69 min Scan# 2462
Delta R.T. 0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.8	25.3	37.9
106	25.7	19.8	29.6

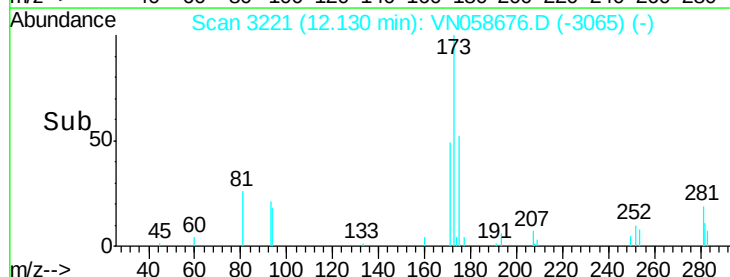
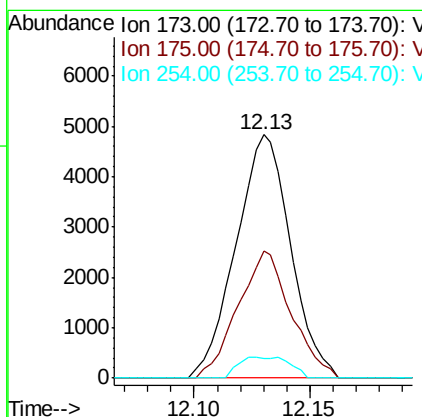
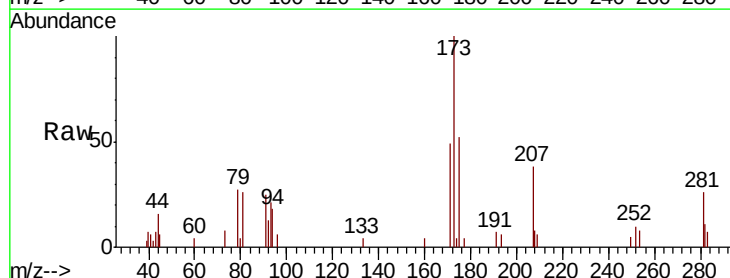
Manual Integrations
APPROVED

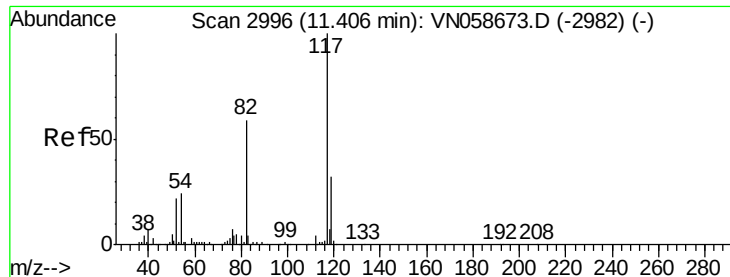
MMDadoda
10/11/2019 2:47:37 PM



#56
Bromoform
Concen: 2.337 ug/l
RT: 12.13 min Scan# 3221
Delta R.T. -0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Tgt Ion	Ratio	Lower	Upper
173	100		
175	50.8	38.7	58.1
254	4.2	7.4	11.2#





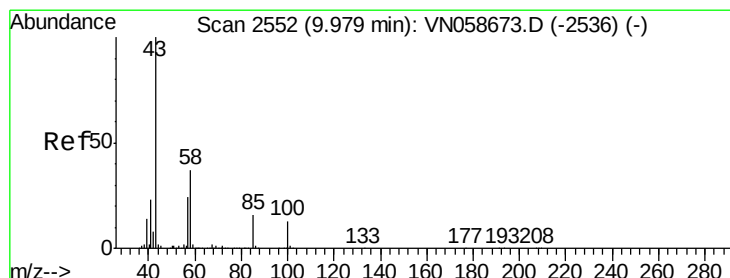
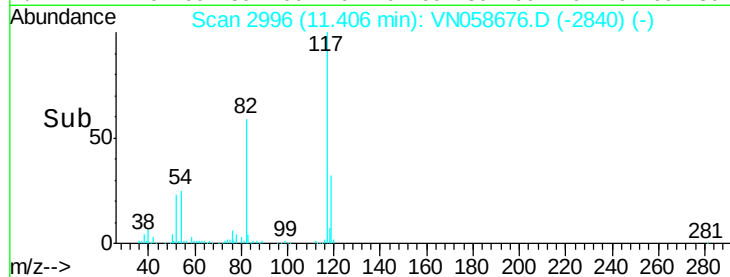
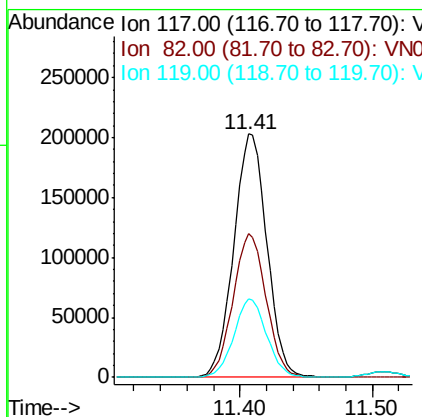
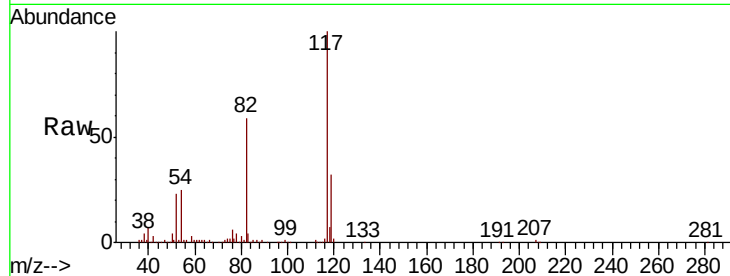
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
117	100		
82	59.0	46.9	70.3
119	31.8	25.8	38.6

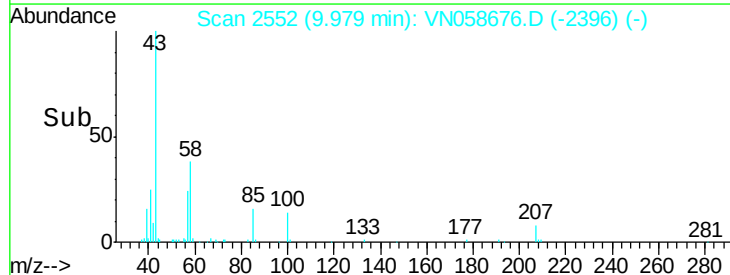
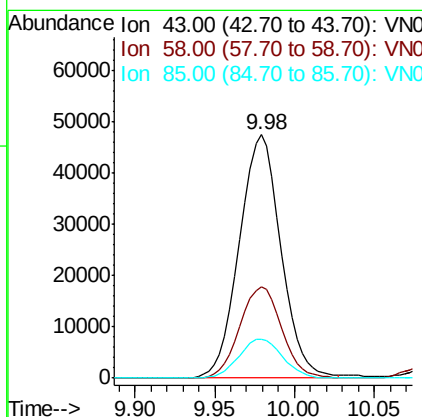
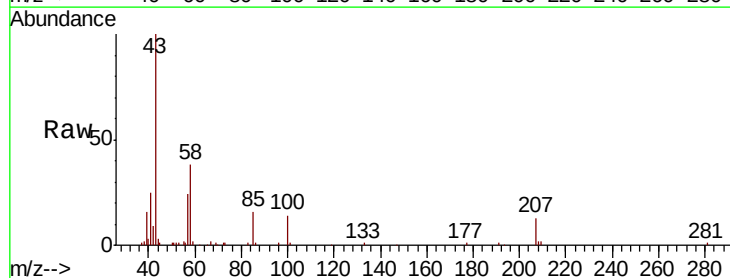
Manual Integrations
APPROVED

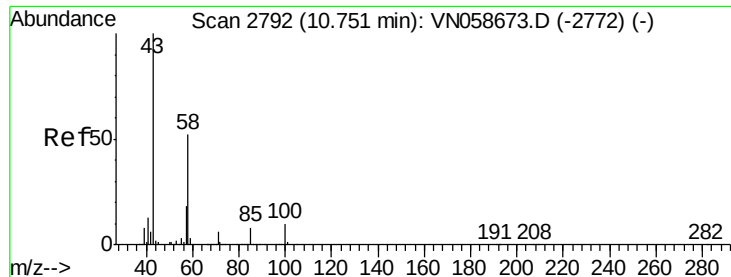
MMDadoda
10/11/2019 2:47:37 PM



#58
4-Methyl-2-Pentanone
Concen: 13.137 ug/l
RT: 9.98 min Scan# 2552
Delta R.T. 0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Tgt Ion	Ratio	Lower	Upper
43	100		
58	37.8	30.1	45.1
85	16.9	13.2	19.8





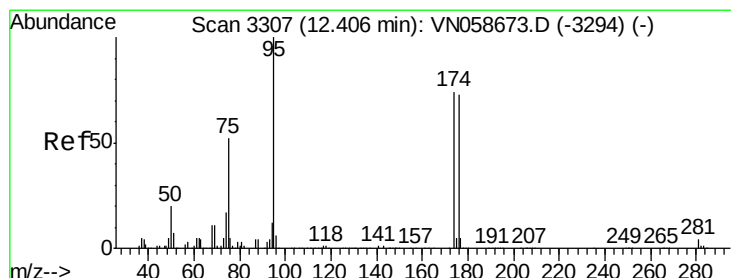
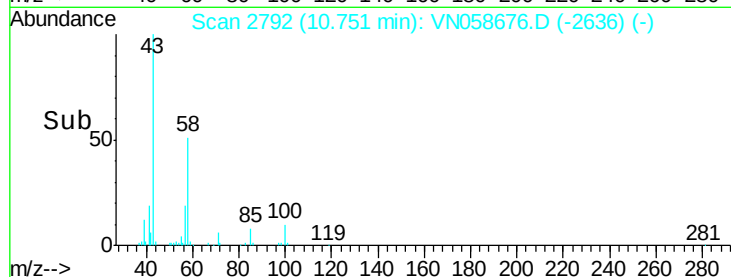
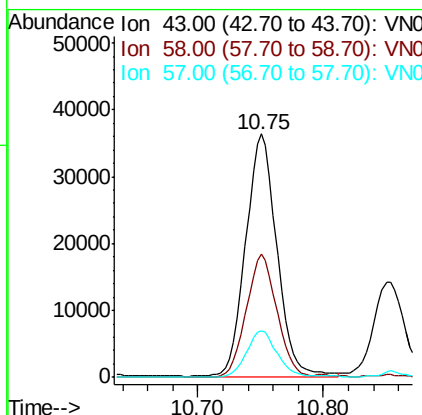
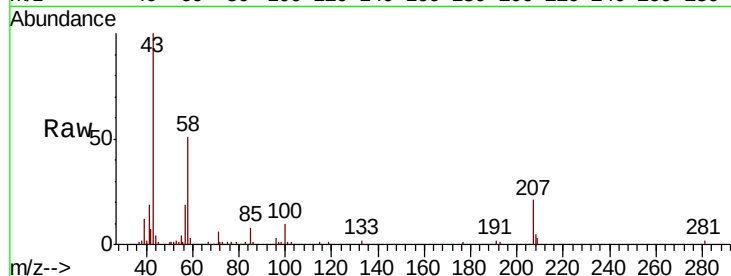
#59
2-Hexanone
Concen: 12.677 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
43	100		
58	49.1	41.4	62.0
57	18.7	14.7	22.1

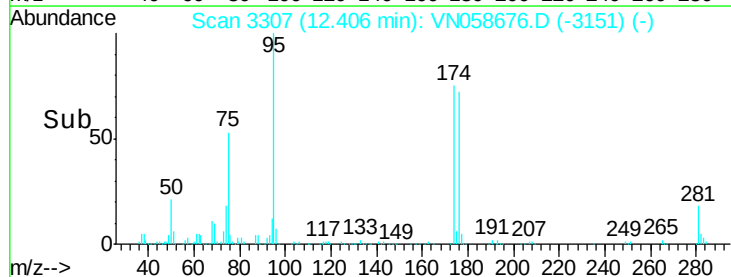
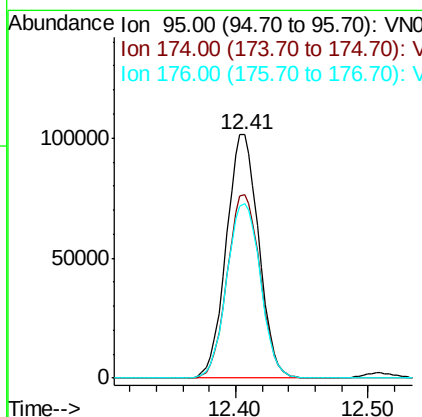
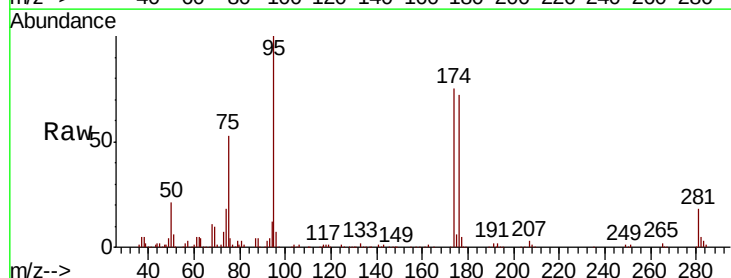
Manual Integrations
APPROVED

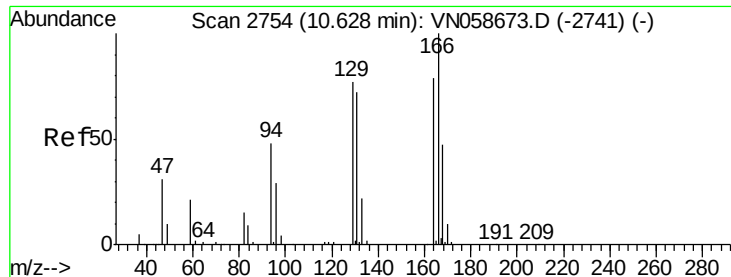
MMDadoda
10/11/2019 2:47:37 PM



#60
4-Bromofluorobenzene
Concen: 27.921 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Tgt Ion	Ratio	Lower	Upper
95	100		
174	76.8	59.9	89.9
176	74.7	58.3	87.5





#61

Tetrachloroethene

Concen: 2.928 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

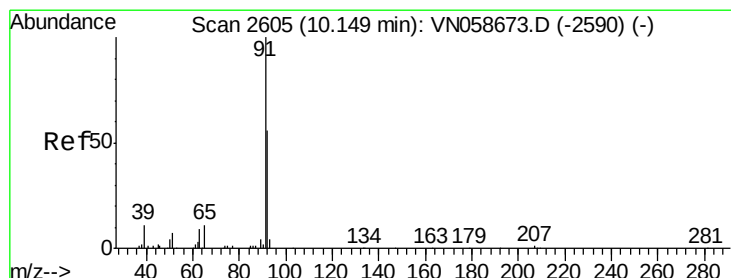
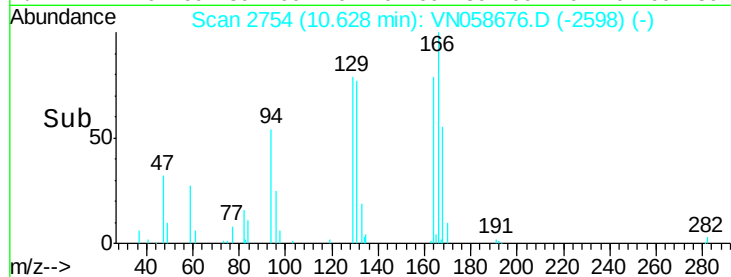
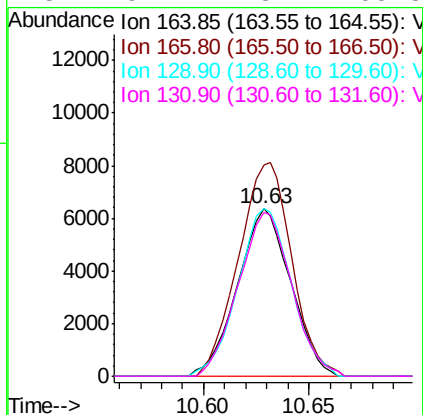
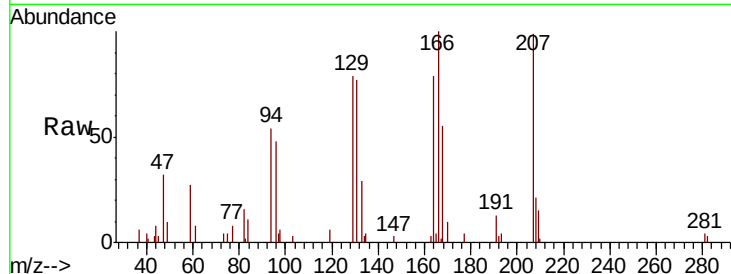
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:	164	Resp:	11137
Ion	Ratio	Lower	Upper
164	100		
166	126.8	101.4	152.2
129	100.7	78.1	117.1
131	97.7	73.2	109.8

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#62

Toluene

Concen: 2.825 ug/l

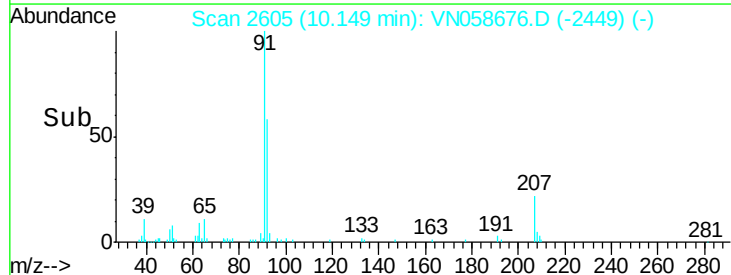
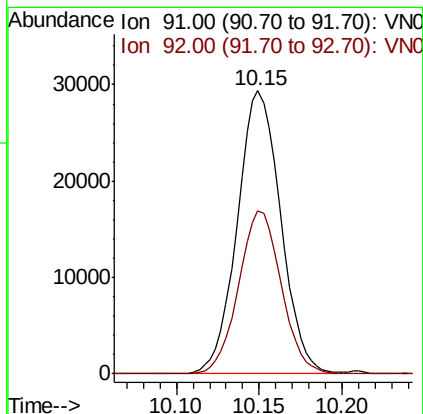
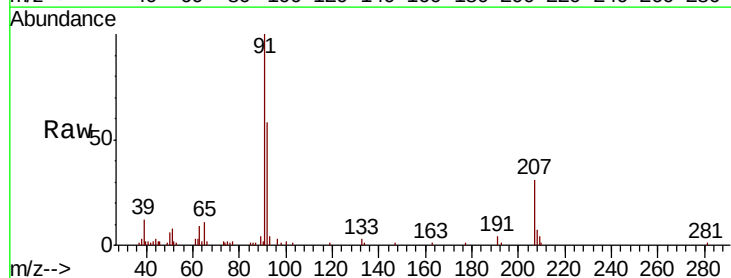
RT: 10.15 min Scan# 2605

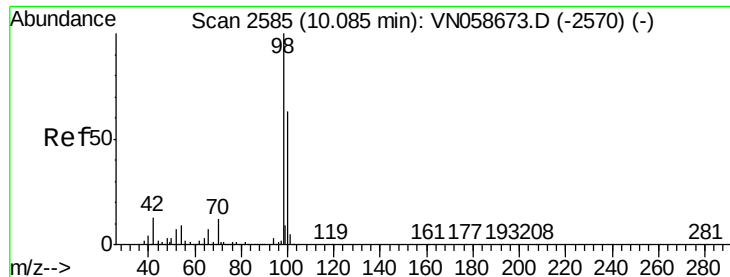
Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Tgt Ion:	91	Resp:	53487
Ion	Ratio	Lower	Upper
91	100		
92	56.5	45.4	68.2





#63

Toluene-d8

Concen: 30.059 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 98 Resp: 499517

Ion Ratio Lower Upper

98 100

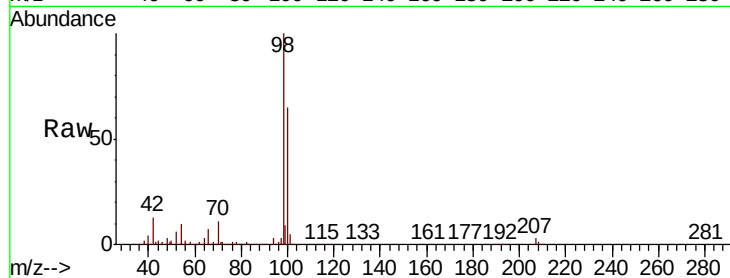
100 64.4 50.6 75.8

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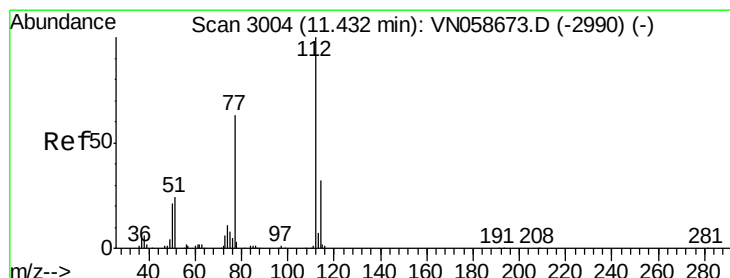
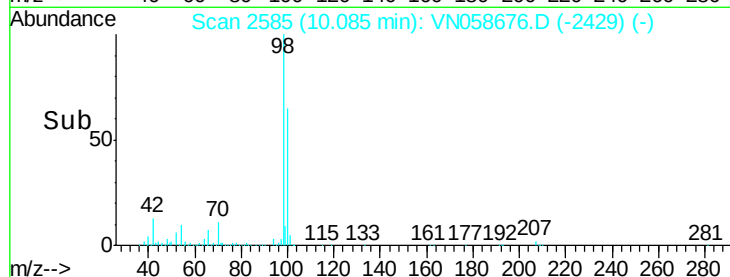
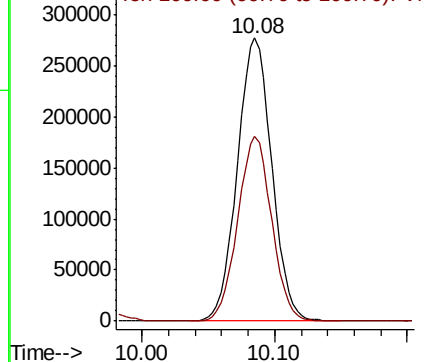
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Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#64

Chlorobenzene

Concen: 2.789 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN058676.D

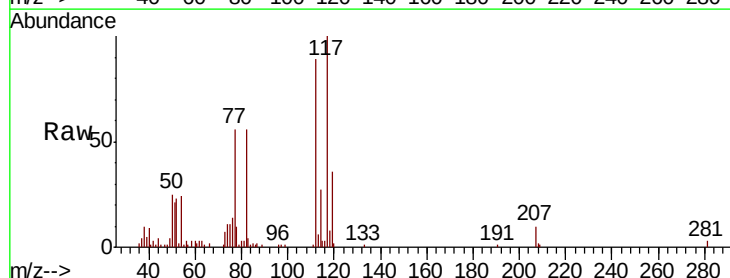
Acq: 10 Oct 2019 20:02

Tgt Ion: 112 Resp: 32285

Ion Ratio Lower Upper

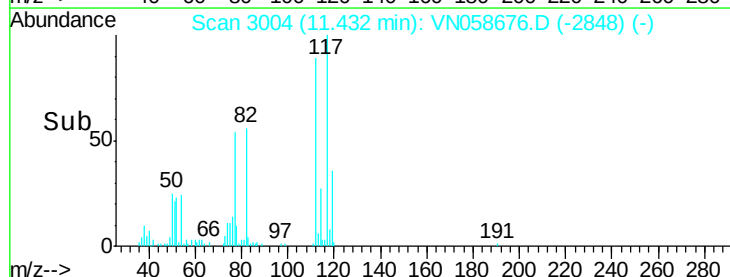
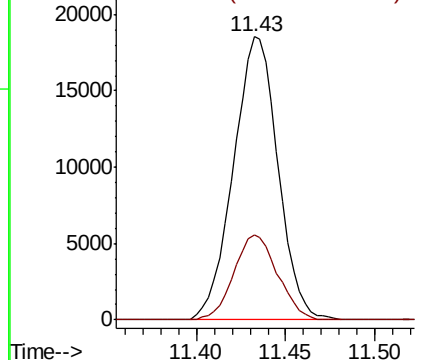
112 100

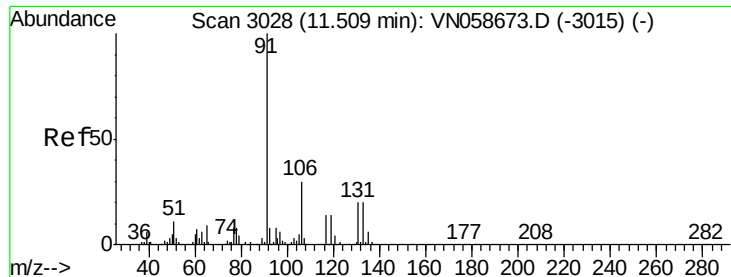
114 29.9 25.7 38.5



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V





#65

1,1,1,2-Tetrachloroethane

Concen: 2.693 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

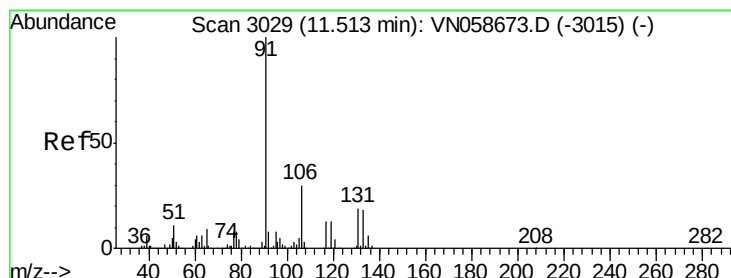
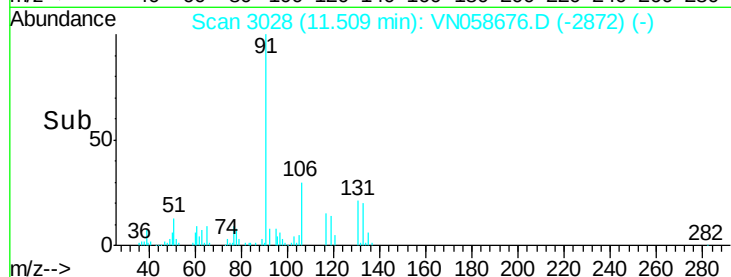
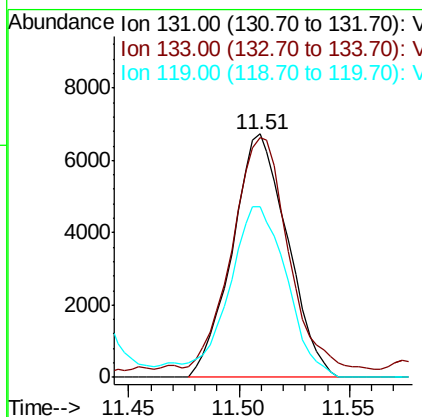
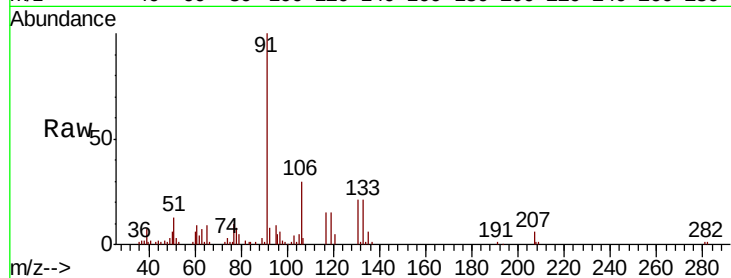
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
131	100	11688		
133	95.8	0.0	194.0	
119	73.2	0.0	136.8	

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#66

Ethyl Benzene

Concen: 2.647 ug/l

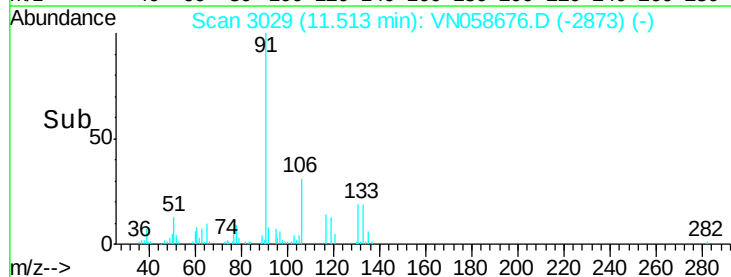
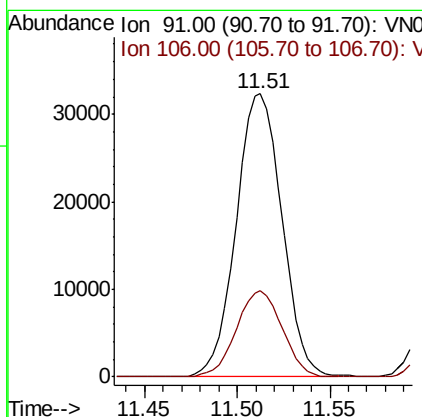
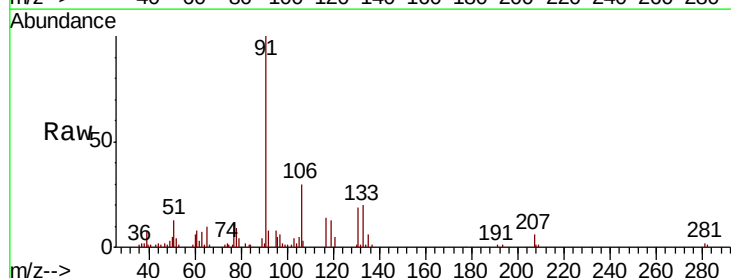
RT: 11.51 min Scan# 3029

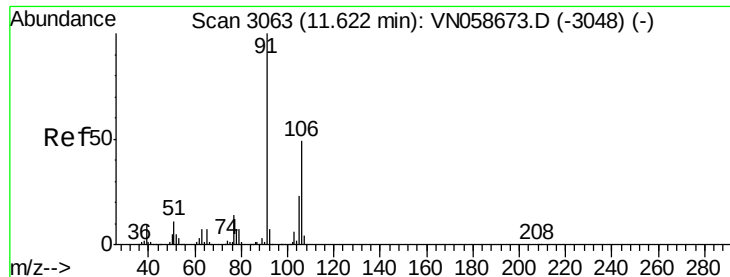
Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	55496		
106	30.5	24.2	36.4	





#67

m/p-Xylenes

Concen: 5.003 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:106 Resp: 39184

Ion Ratio Lower Upper

106 100

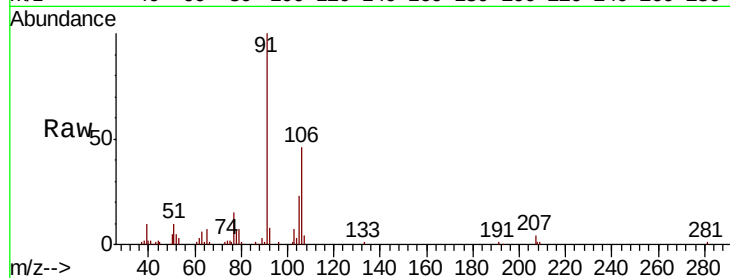
91 215.8 165.6 248.4

Manual Integrations

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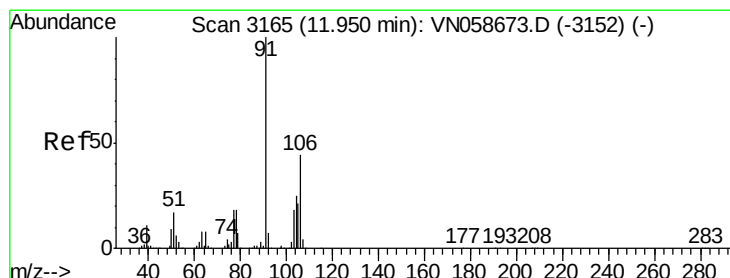
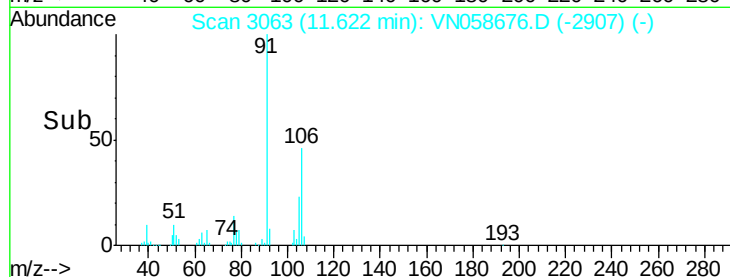
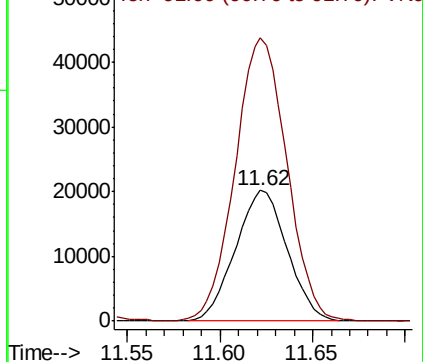
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#68

o-Xylene

Concen: 2.643 ug/l

RT: 11.95 min Scan# 3165

Delta R.T. 0.00 min

Lab File: VN058676.D

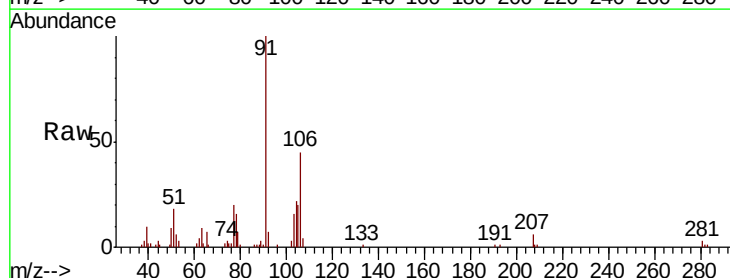
Acq: 10 Oct 2019 20:02

Tgt Ion:106 Resp: 20066

Ion Ratio Lower Upper

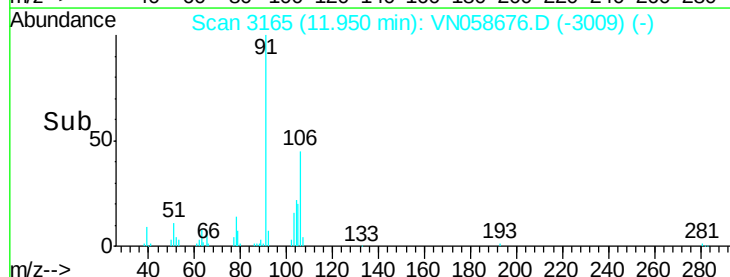
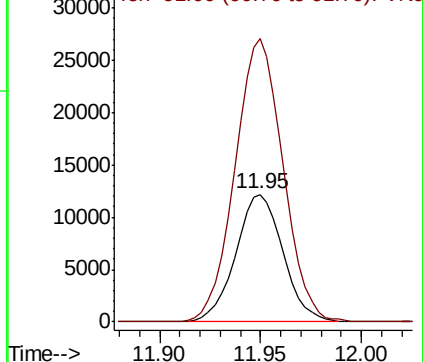
106 100

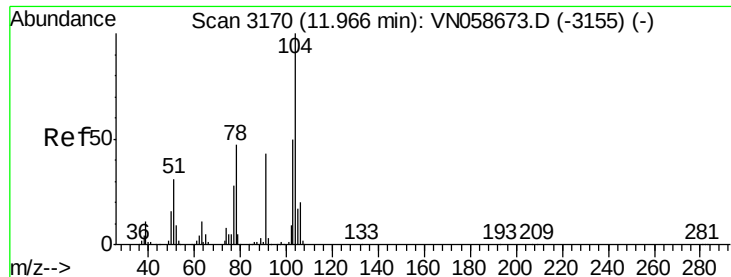
91 224.7 109.8 329.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN





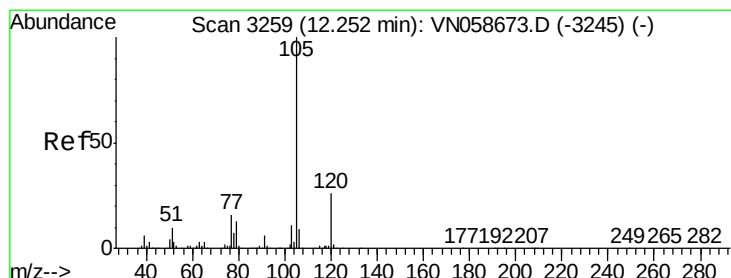
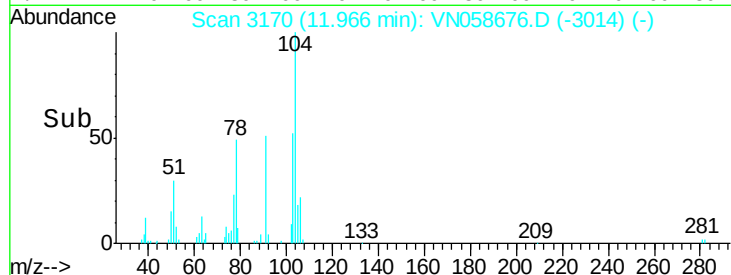
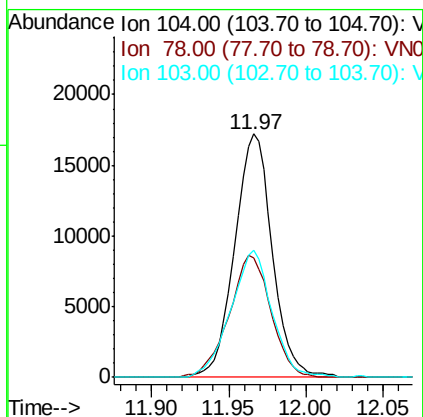
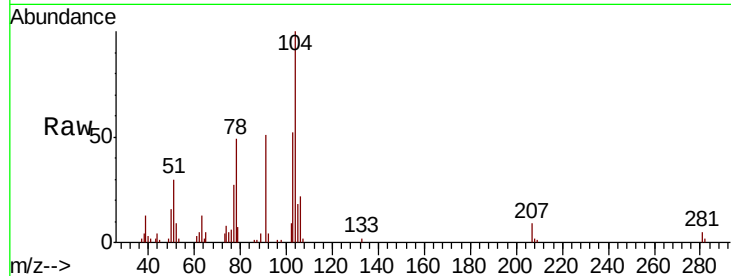
#69
Stvrene
Concen: 2.316 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
104	100		
78	55.7	42.4	63.6
103	57.3	44.6	66.8

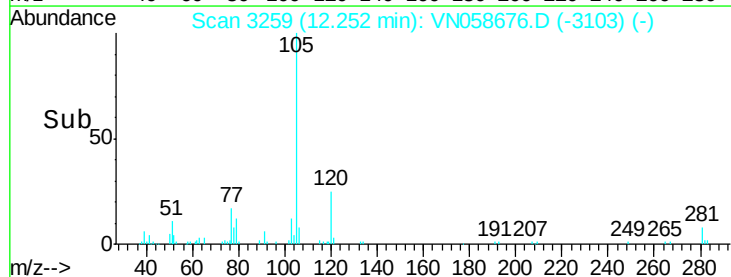
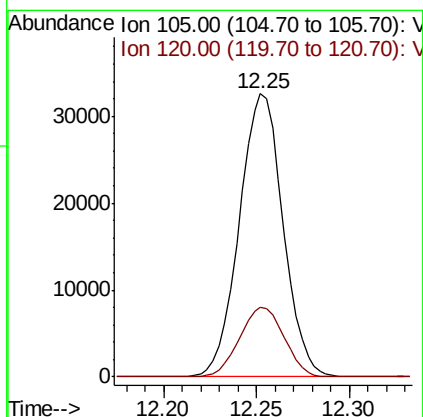
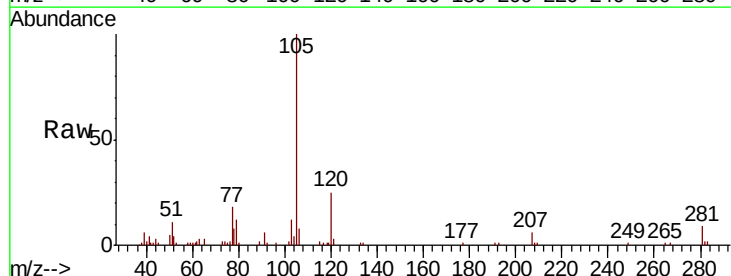
Manual Integrations
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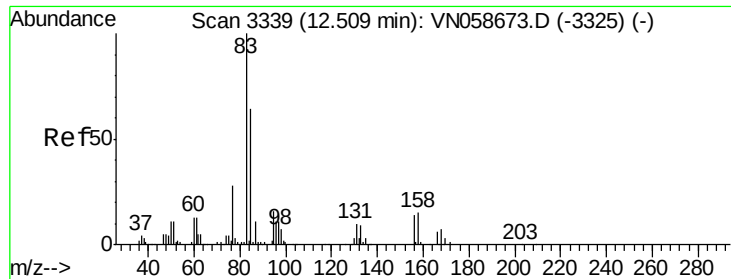
MMDadoda
10/11/2019 2:47:37 PM



#70
Isopropylbenzene
Concen: 2.596 ug/l
RT: 12.25 min Scan# 3259
Delta R.T. 0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.0	18.4	34.2





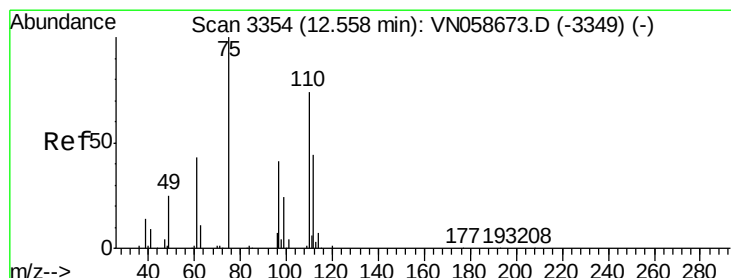
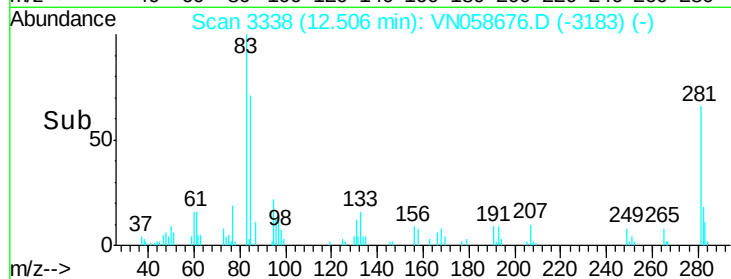
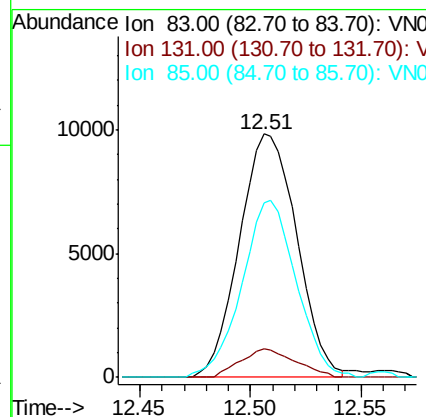
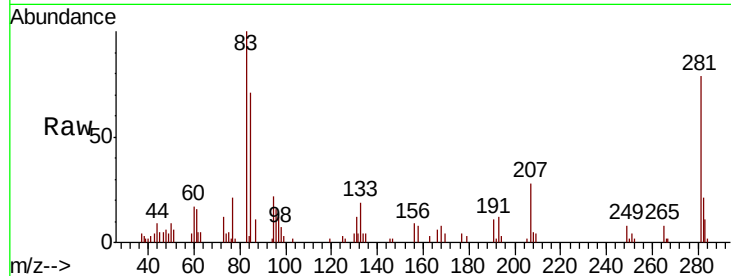
#71
 1,1,2,2-Tetrachloroethane
 Concen: 2.578 ug/l
 RT: 12.51 min Scan# 3338
 Delta R.T. -0.00 min
 Lab File: VN058676.D
 Acq: 10 Oct 2019 20:02

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
83	100		
131	11.2	4.9	14.7
85	68.8	31.6	94.7

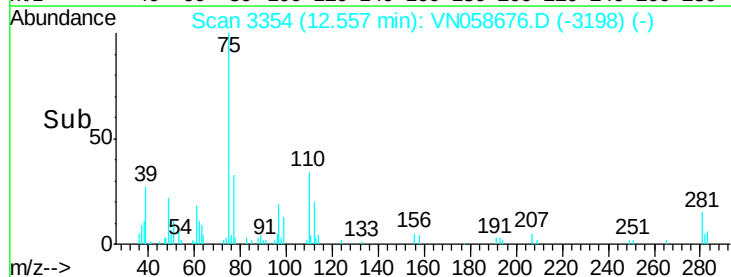
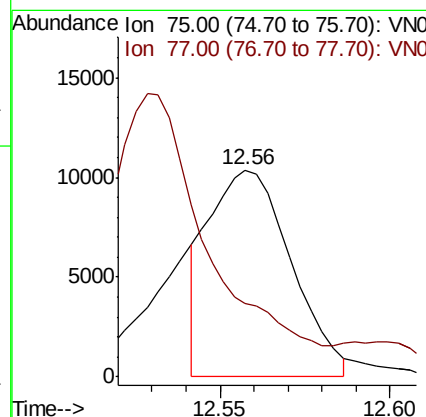
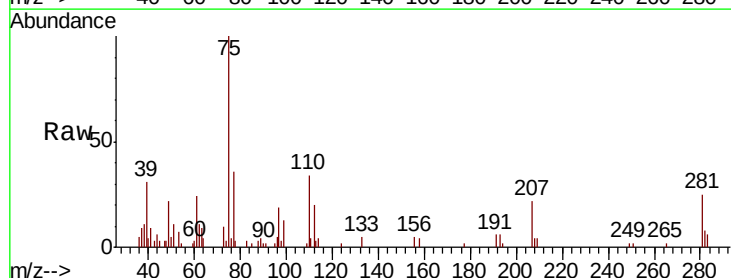
Manual Integrations
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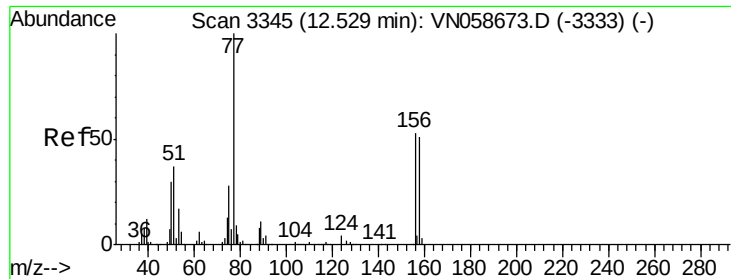
MMDadoda
 10/11/2019 2:47:37 PM



#72
 1,2,3-Trichloropropane
 Concen: 2.789 ug/l m
 RT: 12.56 min Scan# 3354
 Delta R.T. -0.00 min
 Lab File: VN058676.D
 Acq: 10 Oct 2019 20:02

Tgt Ion	Ratio	Lower	Upper
75	100		
77	169.1	0.0	359.4





#73

Bromobenzene

Concen: 2.695 ug/l

RT: 12.53 min Scan# 3346

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

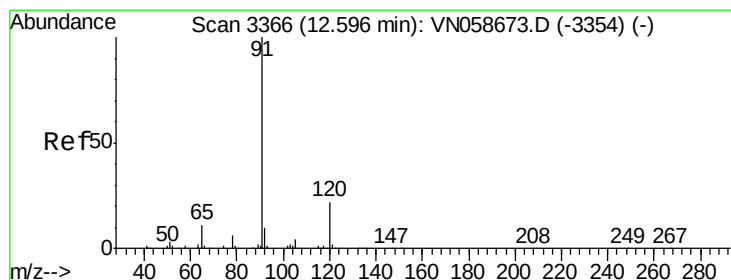
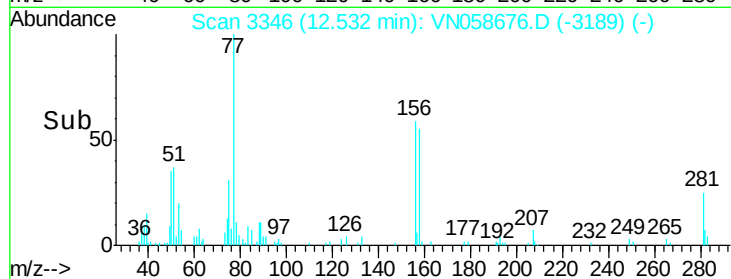
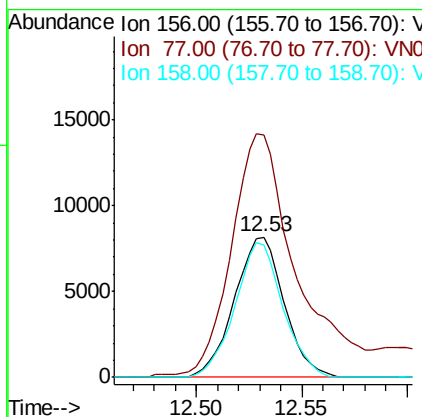
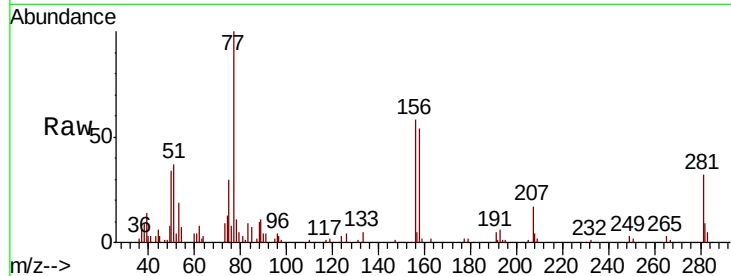
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:	156	Resp:	13416
Ion Ratio	Lower	Upper	
156	100		
77	219.8	0.0	456.0
158	92.5	0.0	195.4

Manual Integrations
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#74

n-propylbenzene

Concen: 2.553 ug/l

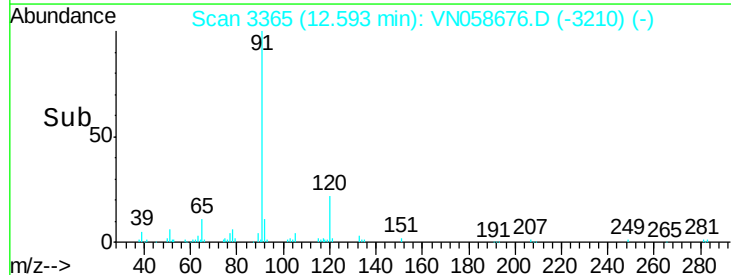
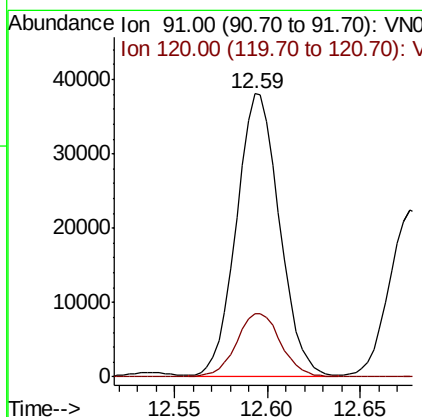
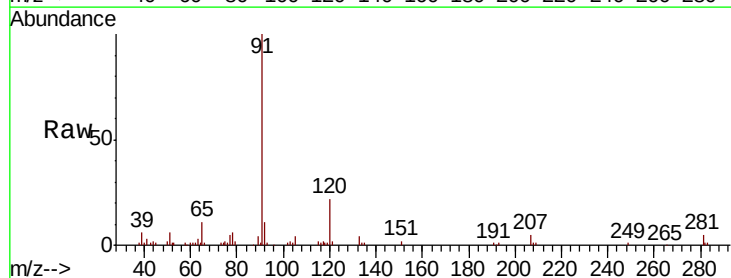
RT: 12.59 min Scan# 3365

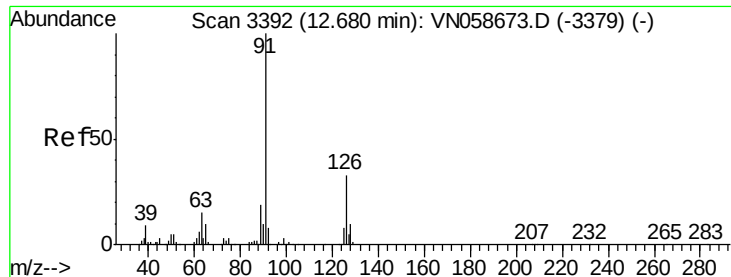
Delta R.T. -0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Tgt Ion:	91	Resp:	61266
Ion Ratio	Lower	Upper	
91	100		
120	23.0	0.0	43.6





#75

2-Chlorotoluene

Concen: 2.655 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. -0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 91 Resp: 38323

Ion Ratio Lower Upper

91 100

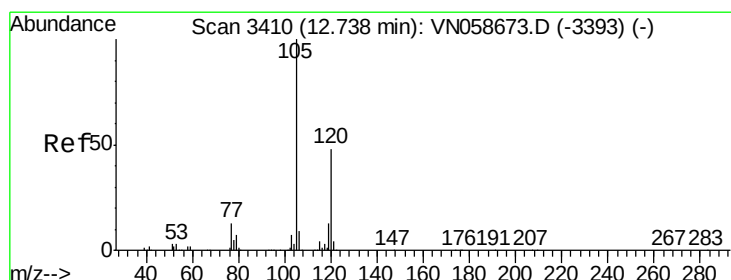
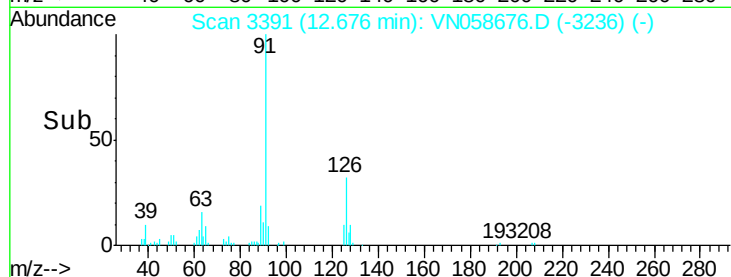
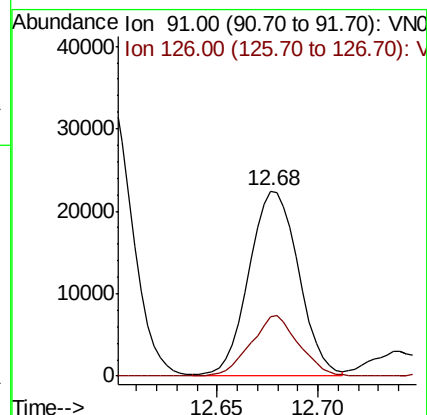
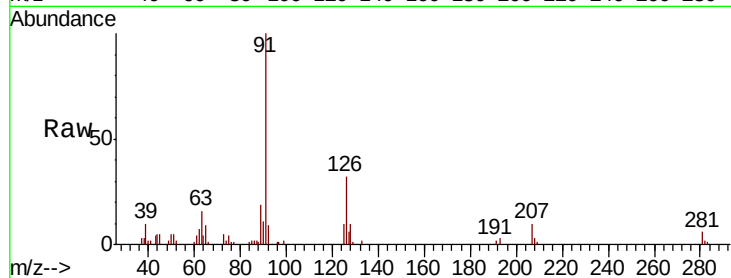
126 31.7 0.0 65.4

Manual Integrations

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#76

1,3,5-Trimethylbenzene

Concen: 2.489 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN058676.D

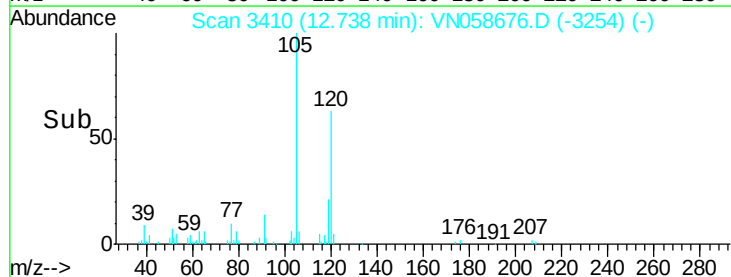
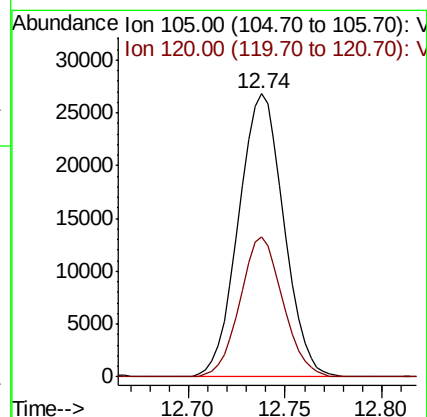
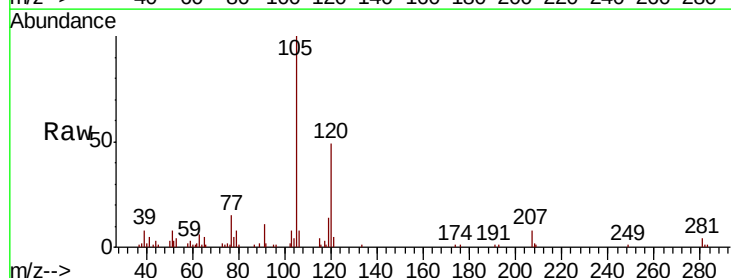
Acq: 10 Oct 2019 20:02

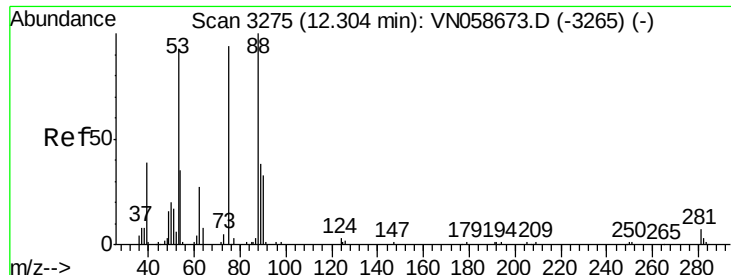
Tgt Ion: 105 Resp: 43707

Ion Ratio Lower Upper

105 100

120 46.5 0.0 94.0





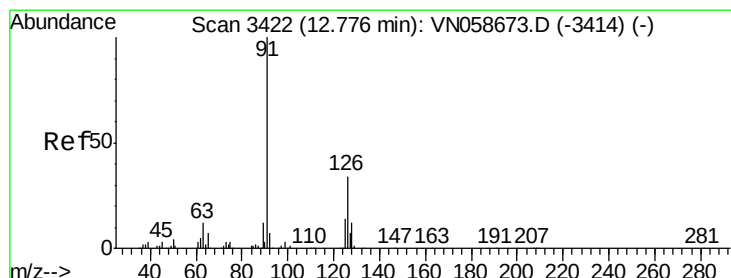
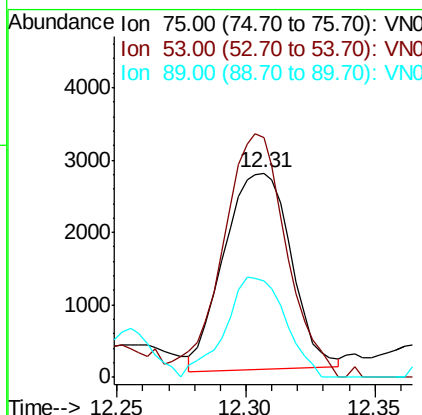
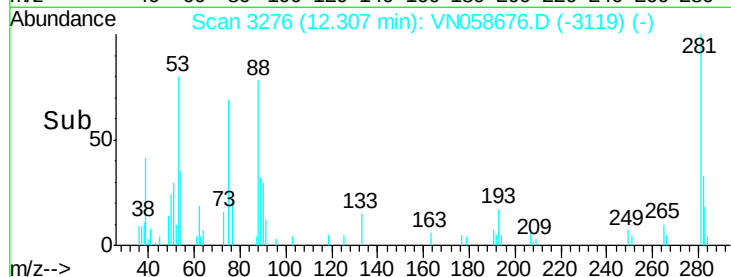
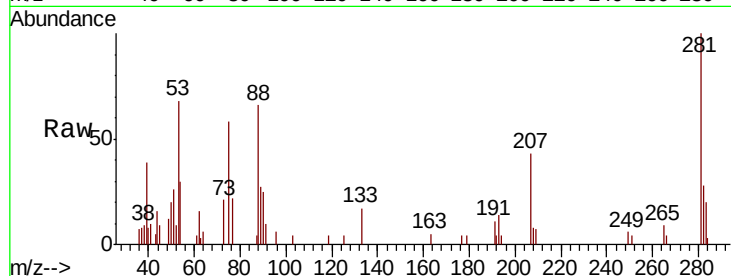
#77
t-1,4-Dichloro-2-butene
Concen: 2.063 ug/l
RT: 12.31 min Scan# 3276
Delta R.T. 0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
75	100		
53	128.4	50.0	150.0
89	51.7	20.7	62.1

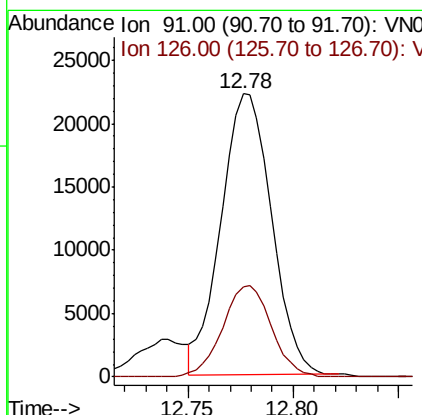
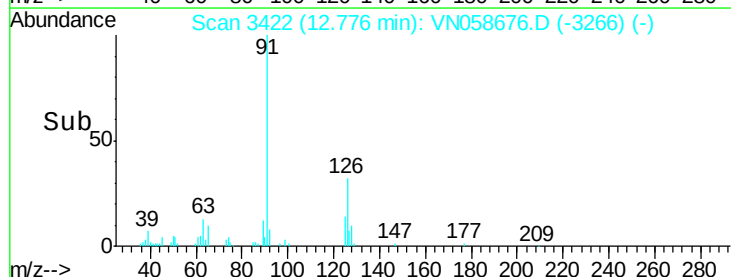
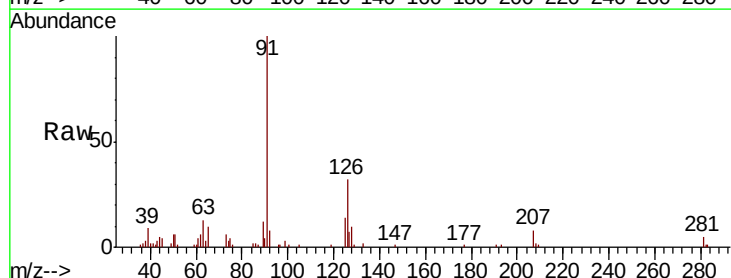
Manual Integrations
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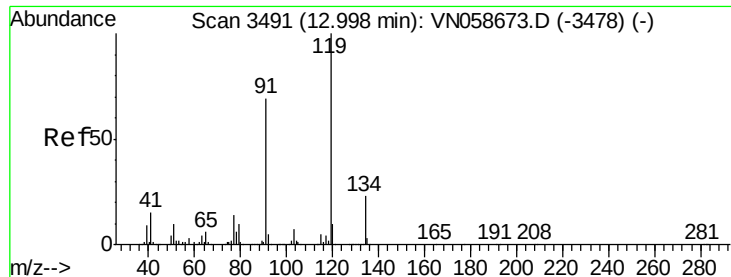
MMDadoda
10/11/2019 2:47:37 PM



#78
4-Chlorotoluene
Concen: 2.480 ug/l
RT: 12.78 min Scan# 3422
Delta R.T. 0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.4	0.0	63.4





#79

tert-butylbenzene

Concen: 2.499 ug/l

RT: 13.00 min Scan# 3491

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

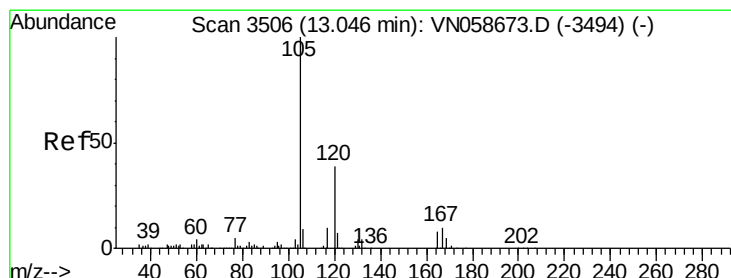
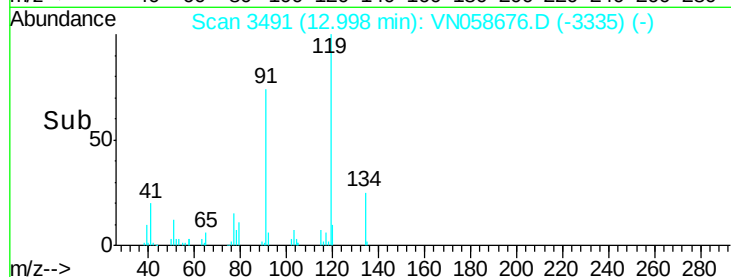
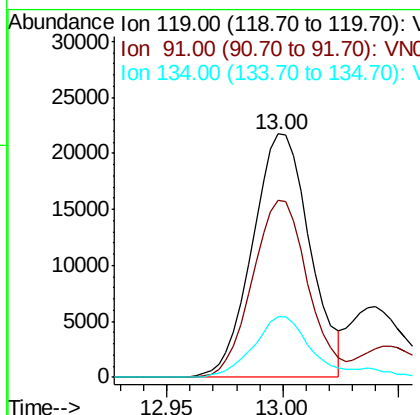
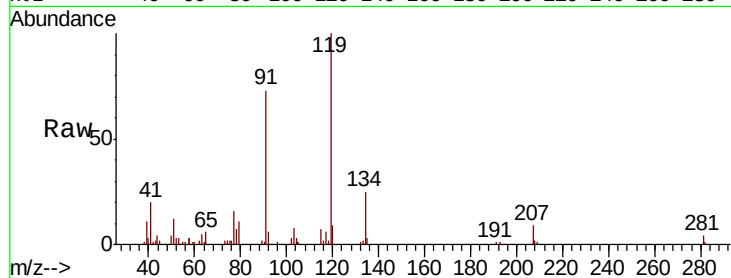
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:	119	Resp:	37477
Ion Ratio	Lower	Upper	
119	100		
91	70.3	0.0	136.4
134	24.5	0.0	47.2

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#80

1,2,4-Trimethylbenzene

Concen: 2.432 ug/l

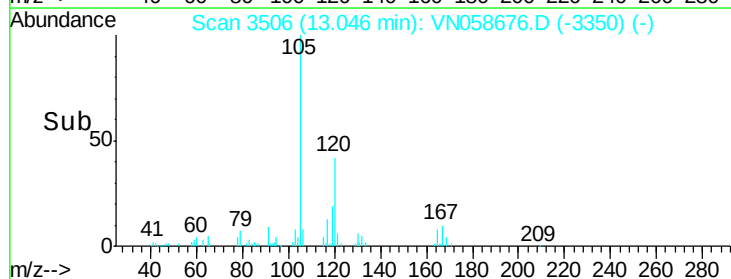
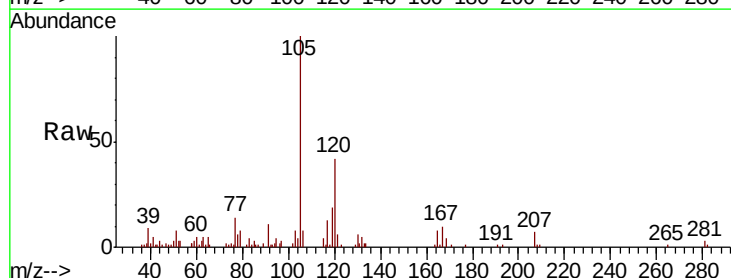
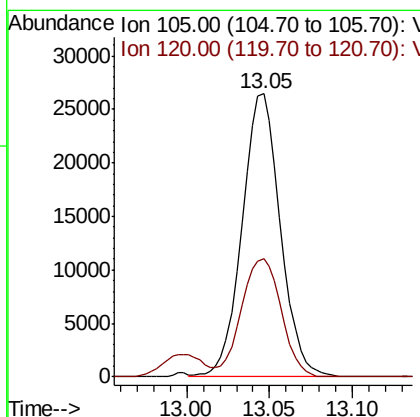
RT: 13.05 min Scan# 3506

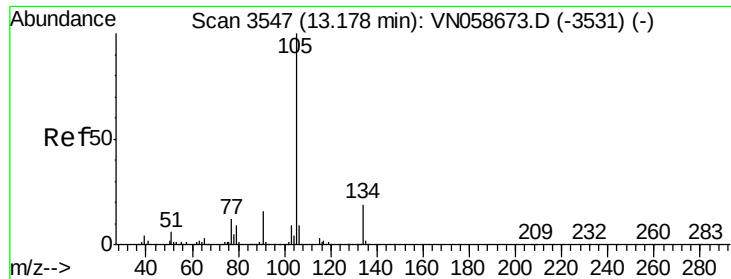
Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Tgt Ion:	105	Resp:	42422
Ion Ratio	Lower	Upper	
105	100		
120	43.3	0.0	89.2





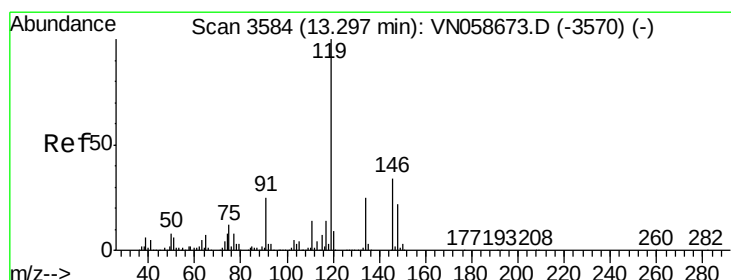
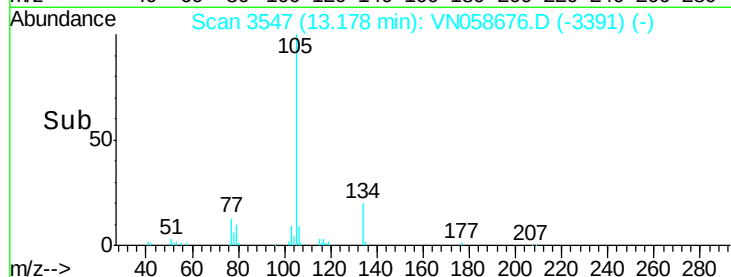
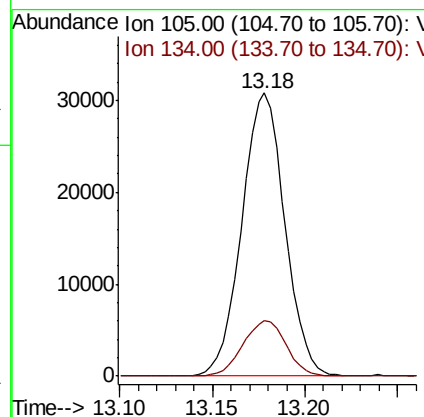
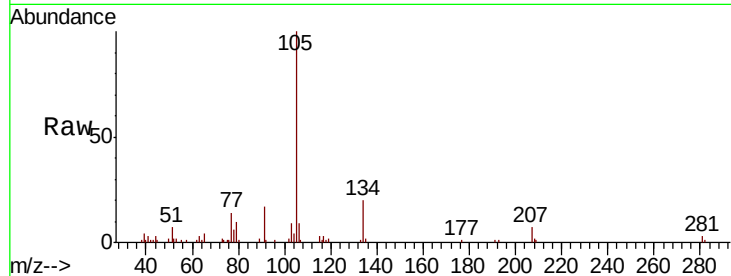
#81
 sec-Butylbenzene
 Concen: 2.459 ug/l
 RT: 13.18 min Scan# 3547
 Delta R.T. 0.00 min
 Lab File: VN058676.D
 Acq: 10 Oct 2019 20:02

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
105	100	49641		
134	19.6	0.0	38.0	

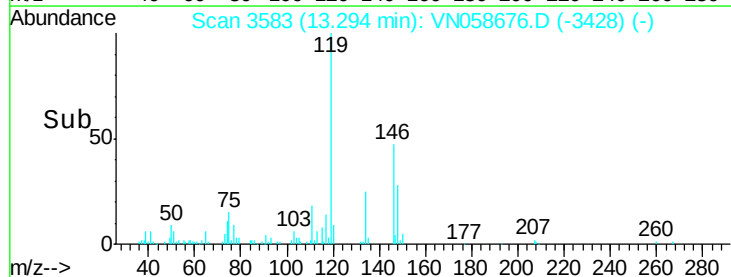
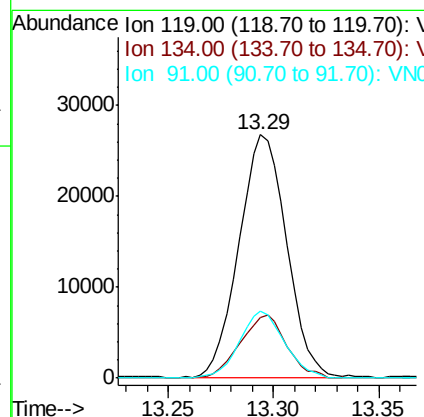
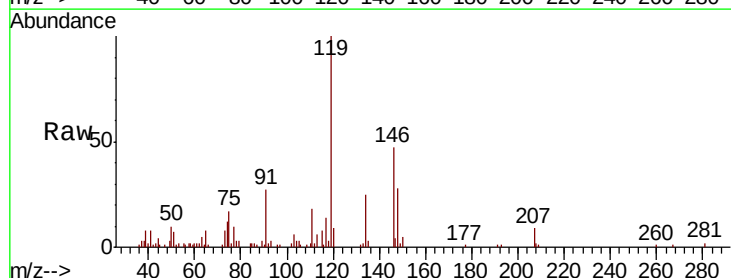
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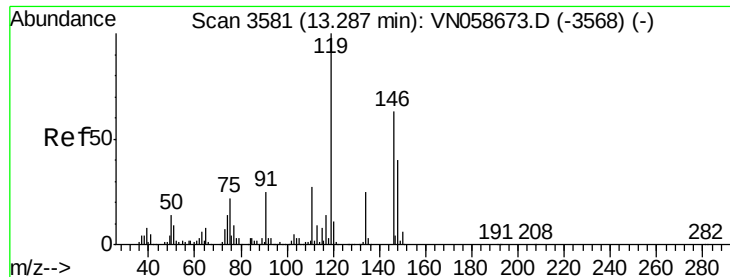
MMDadoda
 10/11/2019 2:47:37 PM



#82
 p-Isopropyltoluene
 Concen: 2.329 ug/l
 RT: 13.29 min Scan# 3583
 Delta R.T. -0.00 min
 Lab File: VN058676.D
 Acq: 10 Oct 2019 20:02

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	42218		
134	25.2	0.0	50.8	
91	25.8	0.0	49.4	





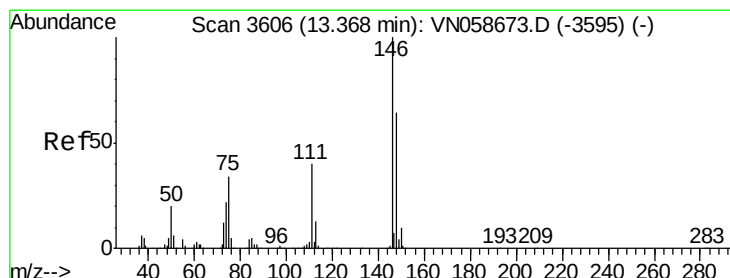
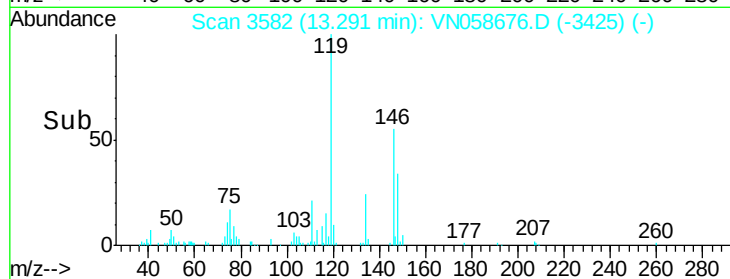
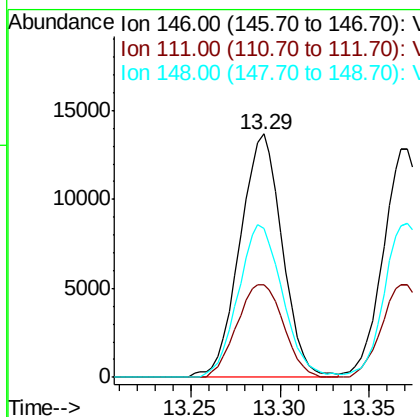
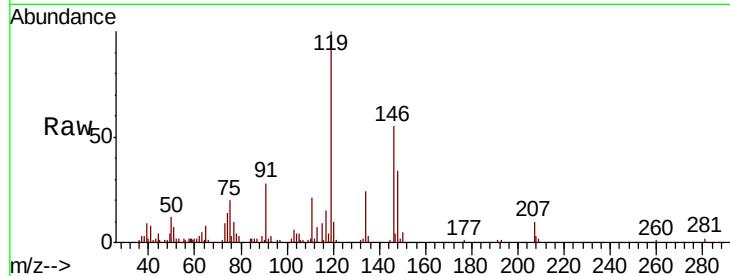
#83
 1,3-Dichlorobenzene
 Concen: 2.515 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN058676.D
 Acq: 10 Oct 2019 20:02

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.6	21.0	63.0
148	65.8	31.7	95.1

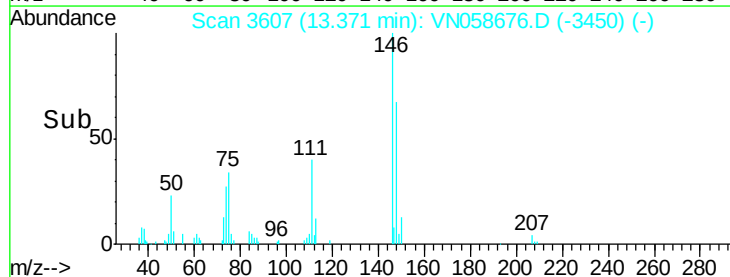
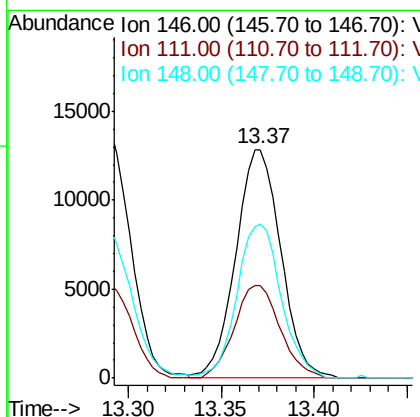
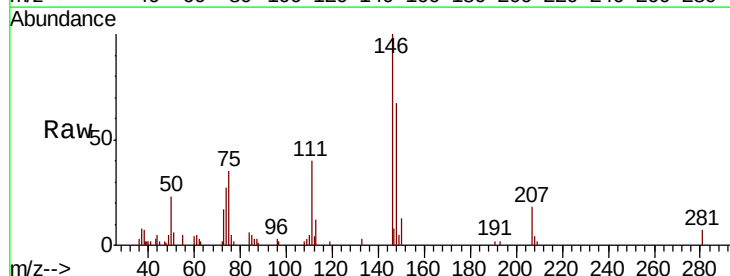
Manual Integrations
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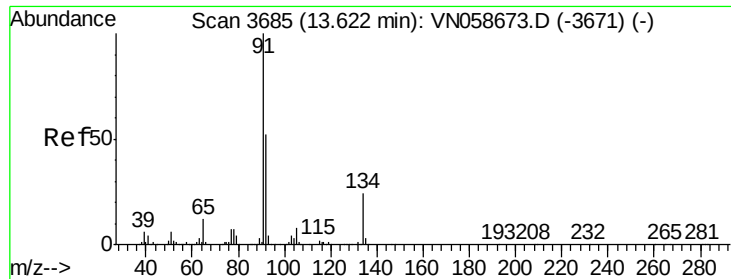
MMDadoda
 10/11/2019 2:47:37 PM



#84
 1,4-Dichlorobenzene
 Concen: 2.418 ug/l
 RT: 13.37 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VN058676.D
 Acq: 10 Oct 2019 20:02

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.3	19.8	59.4
148	66.0	31.6	94.8





#85

n-Butylbenzene

Concen: 2.217 ug/l

RT: 13.62 min Scan# 3685

Delta R.T. -0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

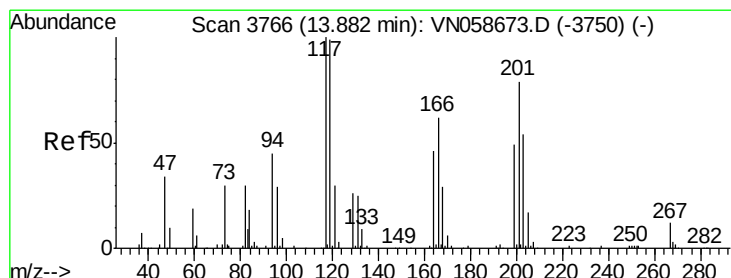
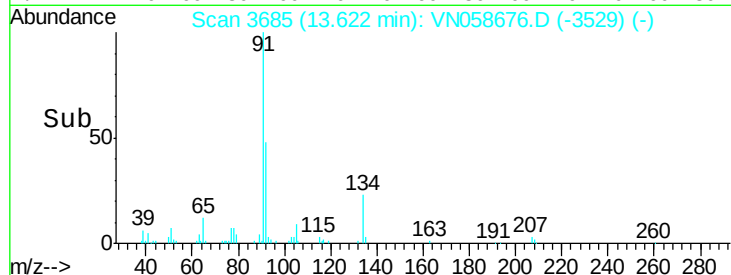
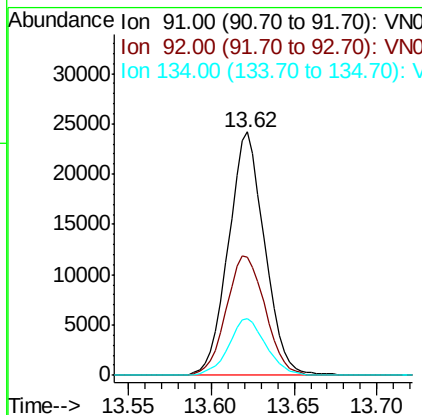
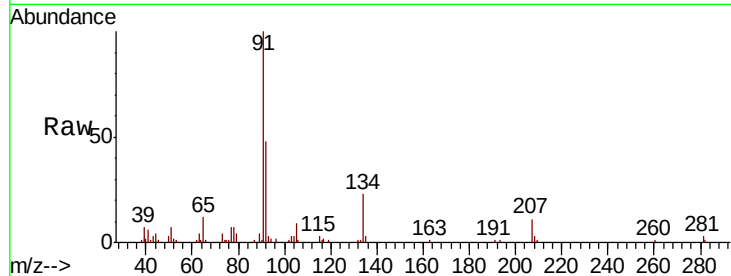
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:	91	Resp:	36793
Ion	Ratio	Lower	Upper
91	100		
92	52.6	0.0	102.8
134	24.0	0.0	48.6

Manual Integrations
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#86

Hexachloroethane

Concen: 2.543 ug/l

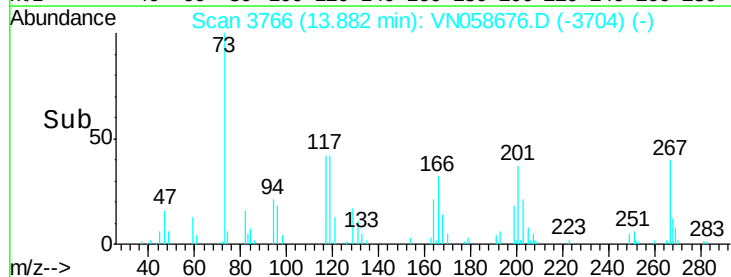
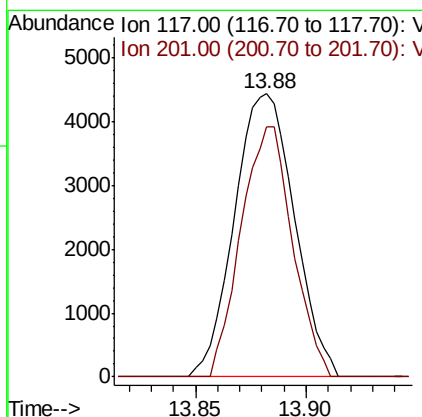
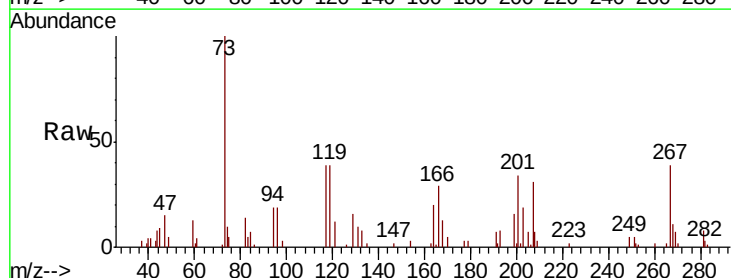
RT: 13.88 min Scan# 3766

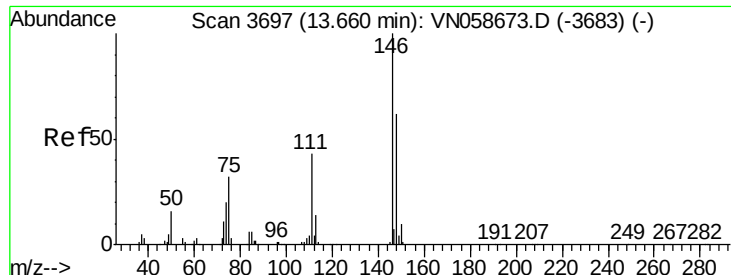
Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Tgt Ion:	117	Resp:	8390
Ion	Ratio	Lower	Upper
117	100		
201	75.8	38.7	116.1





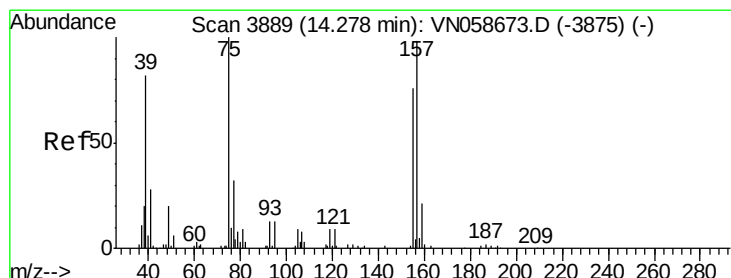
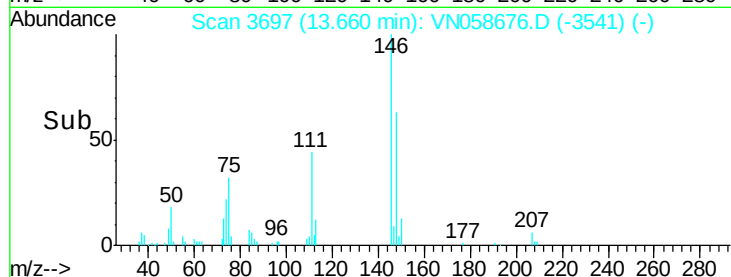
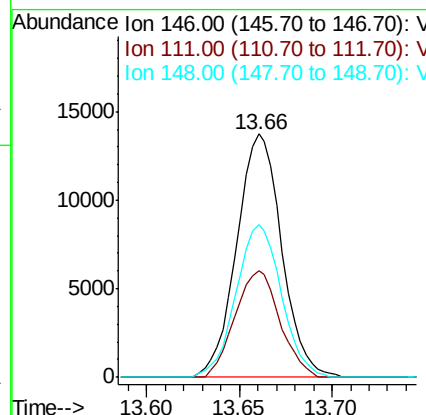
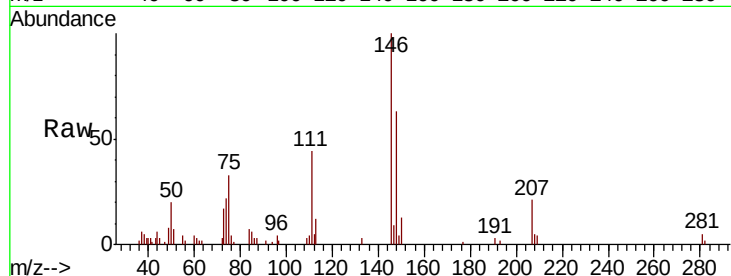
#87
 1,2-Dichlorobenzene
 Concen: 2.601 ug/l
 RT: 13.66 min Scan# 3697
 Delta R.T. -0.00 min
 Lab File: VN058676.D
 Acq: 10 Oct 2019 20:02

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.8	65.4
148	63.3	32.1	96.5

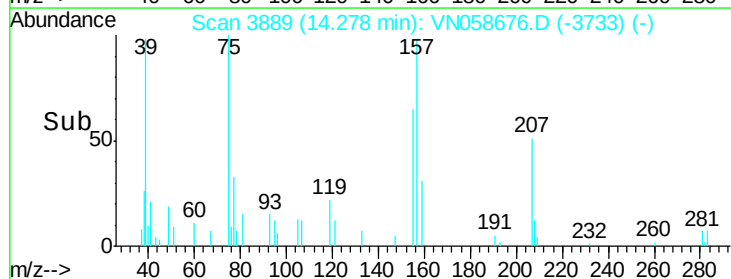
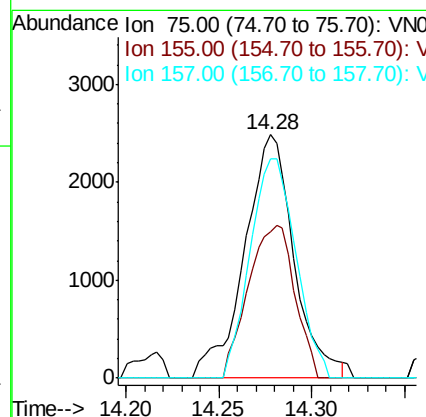
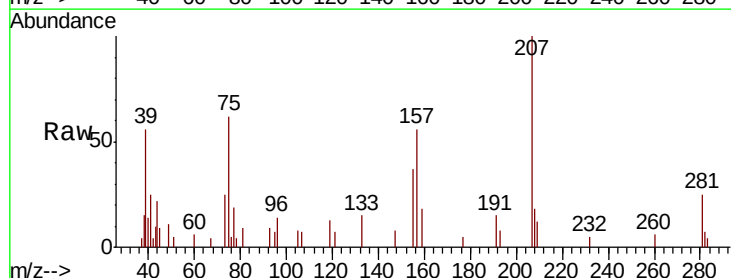
Manual Integrations
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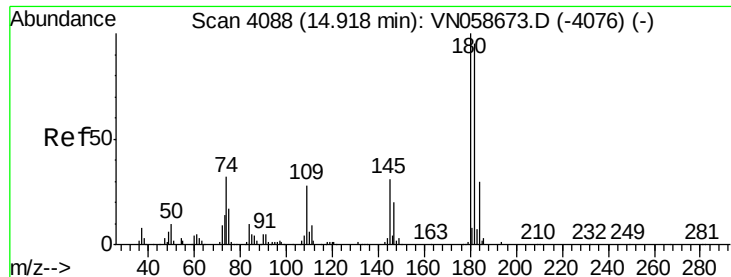
MMDadoda
 10/11/2019 2:47:37 PM



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 3.003 ug/l
 RT: 14.28 min Scan# 3889
 Delta R.T. 0.00 min
 Lab File: VN058676.D
 Acq: 10 Oct 2019 20:02

Tgt Ion	Ratio	Lower	Upper
75	100		
155	59.0	58.3	87.5
157	83.5	75.0	112.6





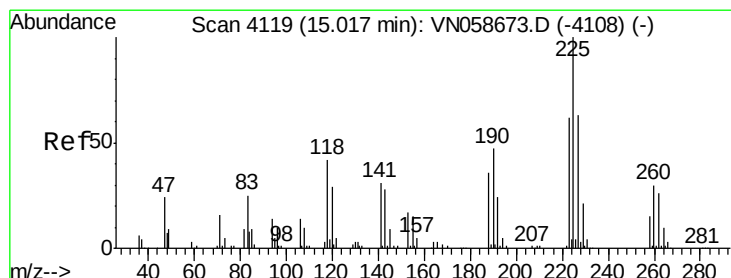
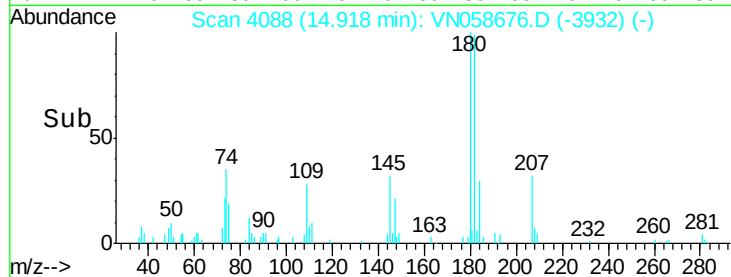
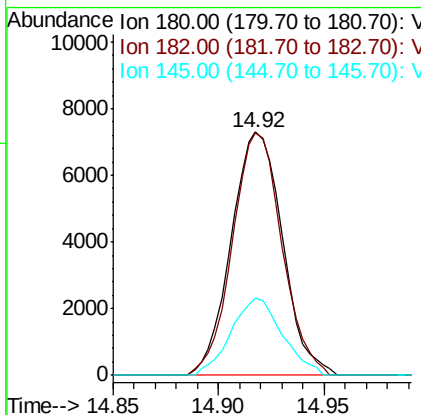
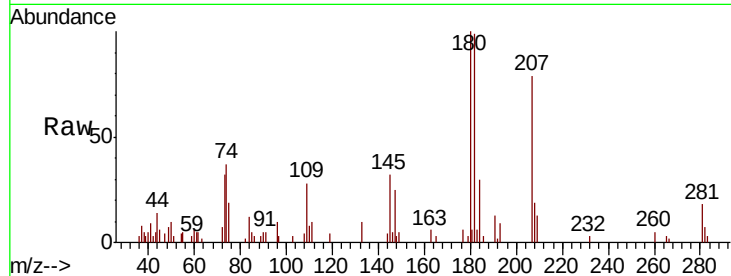
#89
 1,2,4-Trichlorobenzene
 Concen: 2.196 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.00 min
 Lab File: VN058676.D
 Acq: 10 Oct 2019 20:02

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.1	75.3	112.9
145	31.8	24.8	37.2

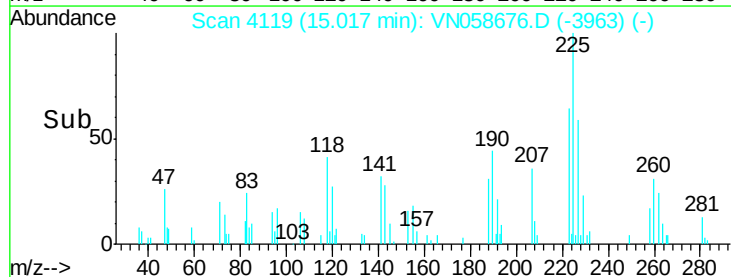
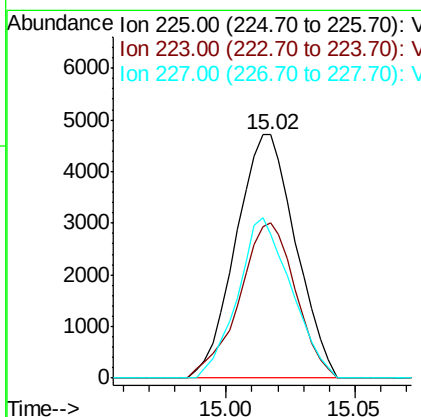
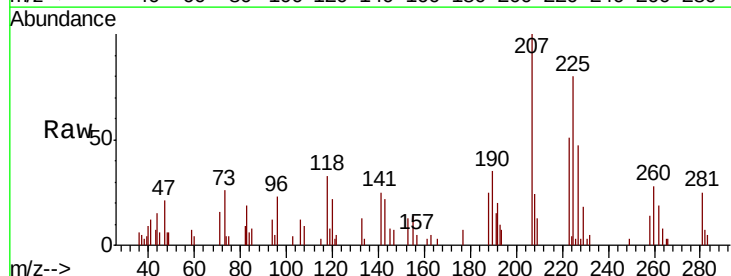
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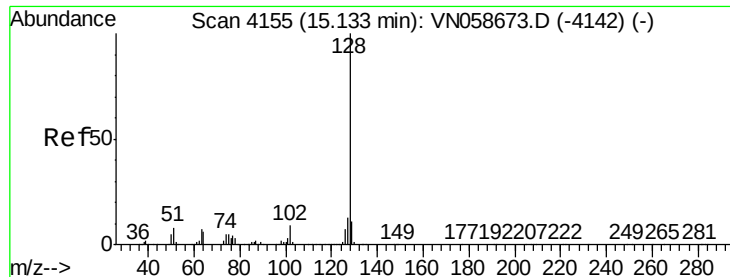
MMDadoda
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#90
 Hexachlorobutadiene
 Concen: 2.623 ug/l
 RT: 15.02 min Scan# 4119
 Delta R.T. 0.00 min
 Lab File: VN058676.D
 Acq: 10 Oct 2019 20:02

Tgt Ion	Ratio	Lower	Upper
225	100		
223	60.2	0.0	126.2
227	59.2	0.0	127.0





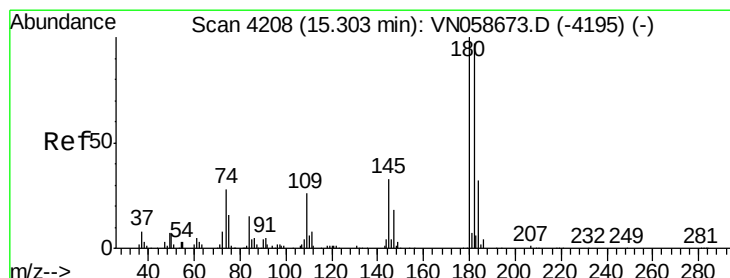
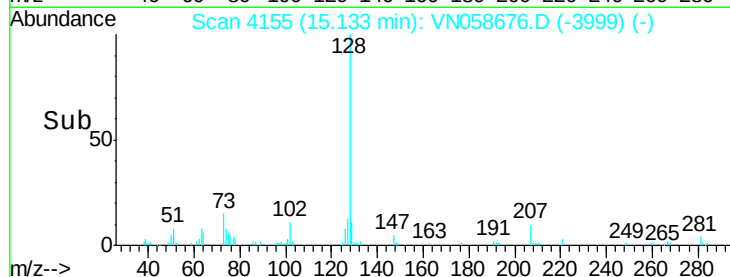
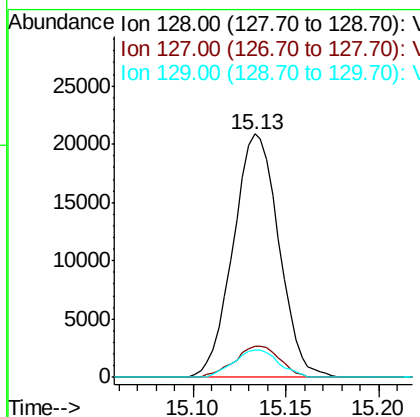
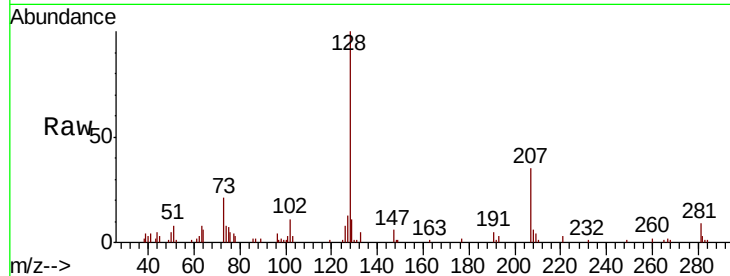
#91
Naphthalene
Concen: 2.157 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	11.0	8.6	13.0

Manual Integrations
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#92
1,2,3-Trichlorobenzene
Concen: 2.359 ug/l
RT: 15.30 min Scan# 4208
Delta R.T. 0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.3	0.0	193.4
145	33.0	0.0	65.8

