

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102220\
 Data File : VN064275.D
 Acq On : 23 Oct 2020 1:11
 Operator : JC/MD
 Sample : L4214-07 2.5PPB LOD
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2020

Manual Integrations
 APPROVED

MMDadoda
 10/23/2020 3:36:39 PM

Quant Time: Oct 23 05:04:33 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N102020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 22 16:07:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	45373	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	265498	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	229617	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	131827	35.49	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	118.30%#
60) 4-Bromofluorobenzene	12.38	95	119627	29.07	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	96.90%
63) Toluene-d8	10.06	98	316879	30.48	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.84	85	5309	1.705	ug/l 98
3) Chloromethane	2.04	50	6734	2.111	ug/l 91
4) Vinyl Chloride	2.17	62	7070	2.253	ug/l 99
5) Bromomethane	2.53	94	5271	2.807	ug/l 84
6) Chloroethane	2.68	64	4239	2.319	ug/l 98
7) Trichlorofluoromethane	2.99	101	12268	2.435	ug/l 99
8) Diethyl Ether	3.38	74	3845	2.248	ug/l 77
9) 1,1,2-Trichlorotrifluoroet	3.72	101	4122	1.550	ug/l 76
10) 1,1-Dichloroethene	3.70	96	5889	2.275	ug/l 91
11) Methyl Iodide	3.92	142	7164	1.920	ug/l 95
12) Methyl Acetate	4.28	43	3880	1.422	ug/l 95
13) Acrolein	3.57	56	3544	11.878	ug/l # 72
14) Acrylonitrile	4.93	53	13540m	12.313	ug/l
15) Acetone	3.79	58	3855	12.984	ug/l # 50
16) Carbon Disulfide	4.01	76	15710	2.122	ug/l # 93
17) Allyl chloride	4.28	41	12672m	2.632	ug/l
18) Methylene Chloride	4.51	84	7298	2.465	ug/l # 91
19) trans-1,2-Dichloroethene	4.99	96	6708m	2.402	ug/l
20) Diisopropyl ether	5.91	45	21985m	2.471	ug/l
21) 1,1-Dichloroethane	5.79	63	13044m	2.402	ug/l
22) cis-1,2-Dichloroethene	6.78	96	6334	1.940	ug/l # 73
23) tert-Butyl Alcohol	4.73	59	6012	11.820	ug/l # 100
24) Methyl tert-Butyl Ether	4.99	73	21041m	2.459	ug/l
25) Chloroform	7.32	83	13788	2.443	ug/l 84
26) Cyclohexane	7.61	56	8987	2.087	ug/l # 79
29) 1,1-Dichloropropene	7.76	75	9351	2.121	ug/l 85
30) 2-Butanone	6.79	43	19251	10.588	ug/l # 82
31) 2,2-Dichloropropane	6.77	77	10698	1.911	ug/l # 66
32) 1,1,1-Trichloroethane	7.53	97	12221	2.175	ug/l # 56
33) Carbon Tetrachloride	7.73	117	11171	2.181	ug/l 99
34) Benzene	8.00	78	28825	2.348	ug/l # 17
35) Methacrylonitrile	7.12	41	5131m	2.573	ug/l
36) 1,2-Dichloroethane	8.09	62	12059	2.428	ug/l # 95
37) Trichloroethene	8.80	130	7349	2.174	ug/l 81
38) Methylcyclohexane	9.05	83	8880	2.106	ug/l 97
39) 1,2-Dichloropropane	9.09	63	7614	2.324	ug/l # 84
40) Dibromomethane	9.17	93	5451	2.391	ug/l 73

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102220\
 Data File : VN064275.D
 Acq On : 23 Oct 2020 1:11
 Operator : JC/MD
 Sample : L4214-07 2.5PPB LOD
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2020

Manual Integrations
 APPROVED

MMDadoda
 10/23/2020 3:36:39 PM

Quant Time: Oct 23 05:04:33 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N102020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 22 16:07:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	11045	2.239	ug/l	99
42) Vinyl Acetate	5.85	43	95395	11.051	ug/l	99
43) Ethyl Acetate	6.88	43	9883m	2.489	ug/l	
44) Isopropyl Acetate	8.13	43	18651	2.446	ug/l #	74
45) 1,4-Dioxane	9.16	88	2050m	45.976	ug/l	
46) Methyl methacrylate	9.17	41	8846	2.445	ug/l	92
47) n-amyl Acetate	12.05	43	11346	1.678	ug/l #	85
48) t-1,3-Dichloropropene	10.35	75	11546	2.075	ug/l	95
49) cis-1,3-Dichloropropene	9.81	75	11559	2.010	ug/l	96
50) 1,1,2-Trichloroethane	10.53	97	6639	2.174	ug/l	94
51) Ethyl methacrylate	10.40	69	10094	2.090	ug/l	95
52) 1,3-Dichloropropane	10.68	76	10928	2.075	ug/l	85
53) Dibromochloromethane	10.87	129	8043	2.092	ug/l	100
54) 1,2-Dibromoethane	10.98	107	7317	2.254	ug/l	96
55) 2-Chloroethyl vinyl ether	9.66	63	25856	10.893	ug/l	97
56) Bromoform	12.10	173	4471	1.670	ug/l #	88
58) 4-Methyl-2-Pentanone	9.95	43	45992	11.820	ug/l	99
59) 2-Hexanone	10.72	43	32844	11.370	ug/l	98
61) Tetrachloroethene	10.60	164	8056	2.603	ug/l	93
62) Toluene	10.13	91	30795	2.346	ug/l	98
64) Chlorobenzene	11.41	112	19477	2.383	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.48	131	7607	2.375	ug/l	98
66) Ethyl Benzene	11.48	91	33436	2.215	ug/l	96
67) m/p-Xylenes	11.59	106	24654	4.392	ug/l	99
68) o-Xylene	11.92	106	11191	2.055	ug/l	91
69) Styrene	11.94	104	18701	2.029	ug/l	97
70) Isopropylbenzene	12.22	105	30850	2.145	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.48	83	8586	2.178	ug/l	96
72) 1,2,3-Trichloropropane	12.52	75	9399m	2.285	ug/l	
73) Bromobenzene	12.50	156	8164	2.354	ug/l	97
74) n-propylbenzene	12.56	91	34910	2.126	ug/l	99
75) 2-Chlorotoluene	12.65	91	22709	2.234	ug/l	97
76) 1,3,5-Trimethylbenzene	12.70	105	25173	2.057	ug/l	99
77) t-1,4-Dichloro-2-butene	12.27	75	2899	1.803	ug/l	97
78) 4-Chlorotoluene	12.75	91	20767	1.953	ug/l	96
79) tert-butylbenzene	12.97	119	20691	2.068	ug/l	97
80) 1,2,4-Trimethylbenzene	13.01	105	24791	1.995	ug/l	98
81) sec-Butylbenzene	13.14	105	26272	2.018	ug/l	98
82) p-Isopropyltoluene	13.26	119	22823	1.894	ug/l	95
83) 1,3-Dichlorobenzene	13.26	146	12510	2.012	ug/l	93
84) 1,4-Dichlorobenzene	13.33	146	12143	1.951	ug/l	99
85) n-Butylbenzene	13.59	91	18367	1.717	ug/l	97
86) Hexachloroethane	13.84	117	3891m	1.876	ug/l	
87) 1,2-Dichlorobenzene	13.63	146	12564	2.072	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.24	75	2151m	2.155	ug/l	
89) 1,2,4-Trichlorobenzene	14.88	180	6501	1.785	ug/l	87
90) Hexachlorobutadiene	14.98	225	2569	1.392	ug/l	71
91) Naphthalene	15.10	128	17266	1.564	ug/l	97
92) 1,2,3-Trichlorobenzene	15.28	180	5112	1.468	ug/l	94

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102220\
Data File : VN064275.D
Acq On : 23 Oct 2020 1:11
Operator : JC/MD
Sample : L4214-07 2.5PPB LOD
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2020

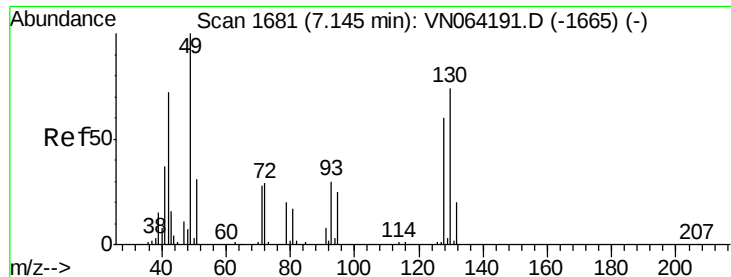
Manual Integrations
APPROVED

MMDadoda
10/23/2020 3:36:39 PM

Quant Time: Oct 23 05:04:33 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N102020W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 22 16:07:21 2020
Response via : Initial Calibration

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

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



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.15 min Scan# 1683

Delta R.T. 0.01 min

Lab File: VN064275.D

Acq: 23 Oct 2020 1:11

Instrument :

MSVOA_N

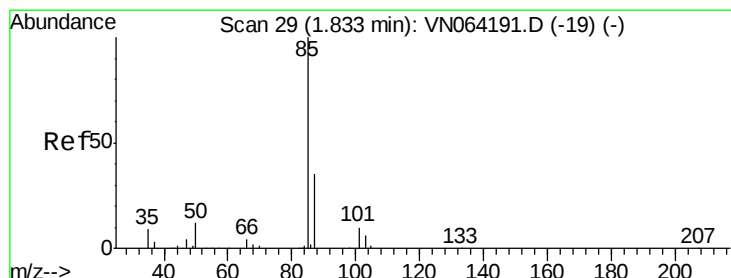
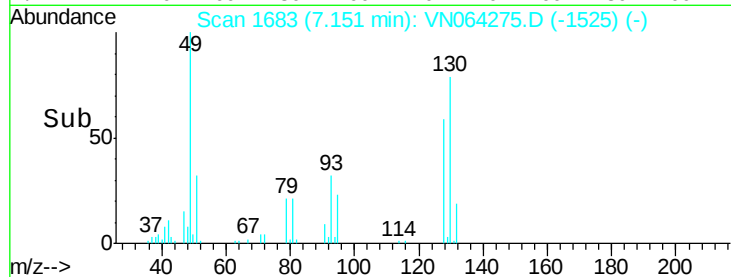
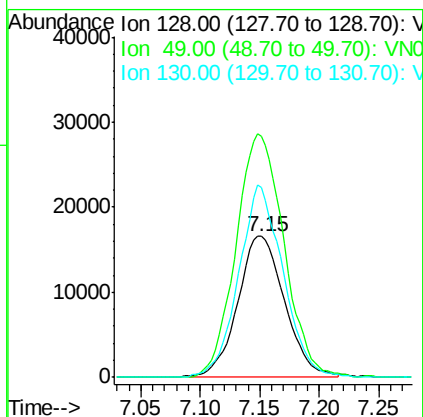
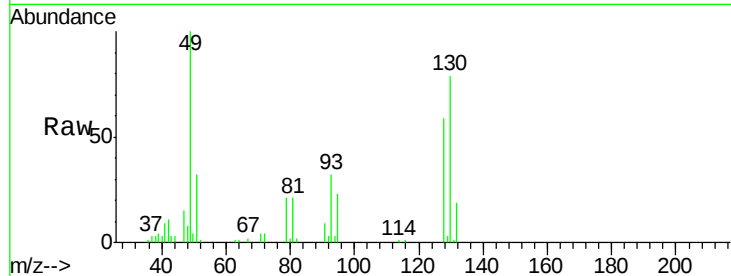
ClientSampleId :

LOD-MDL-WATER-01-QT4-2020

Tot Ion:	128	Resp:	45373
Ion	Ratio	Lower	Upper
128	100		
49	175.7	0.0	433.3
130	128.0	0.0	322.5

Manual Integrations
APPROVED

MMDadoda
10/23/2020 3:36:39 PM



#2

Dichlorodifluoromethane

Concen: 1.705 ug/l

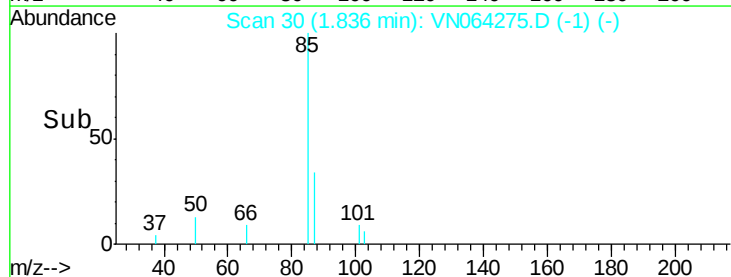
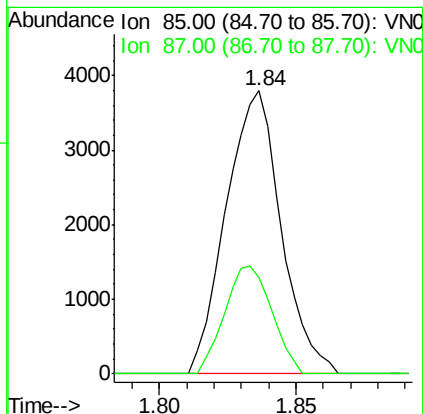
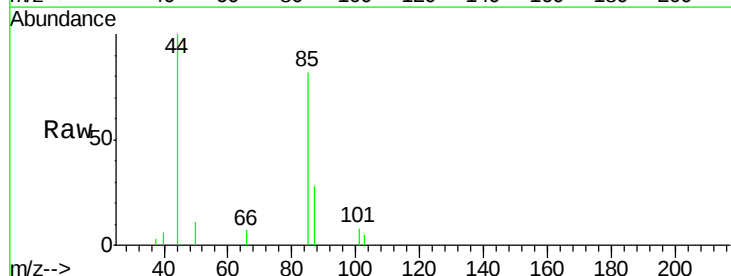
RT: 1.84 min Scan# 30

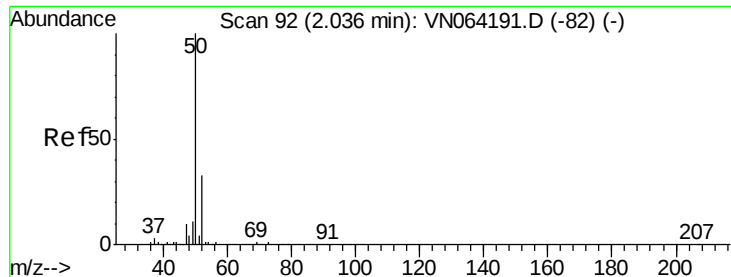
Delta R.T. 0.00 min

Lab File: VN064275.D

Acq: 23 Oct 2020 1:11

Tgt Ion:	85	Resp:	5309
Ion	Ratio	Lower	Upper
85	100		
87	34.2	17.8	53.3





#3

Chloromethane

Concen: 2.111 ug/l

RT: 2.04 min Scan# 92

Delta R.T. -0.00 min

Lab File: VN064275.D

Acq: 23 Oct 2020 1:11

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2020

Tot Ion: 50 Resp: 6734

Ion Ratio Lower Upper

50 100

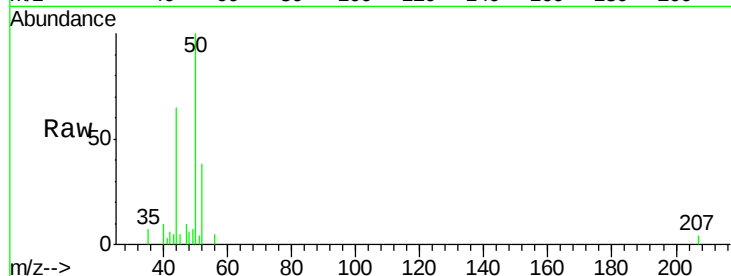
52 38.2 26.6 40.0

Manual Integrations

APPROVED

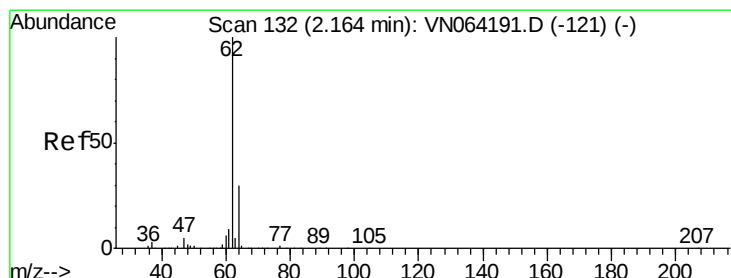
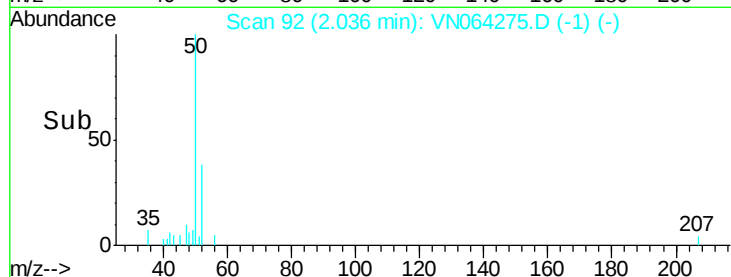
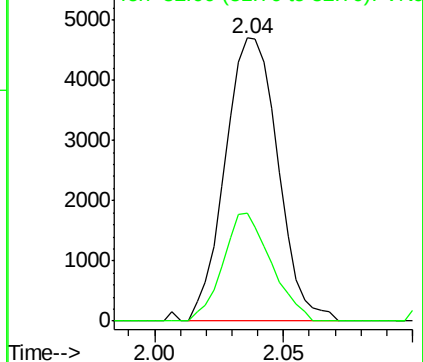
MMDadoda

10/23/2020 3:36:39 PM



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#4

Vinyl Chloride

Concen: 2.253 ug/l

RT: 2.17 min Scan# 133

Delta R.T. 0.00 min

Lab File: VN064275.D

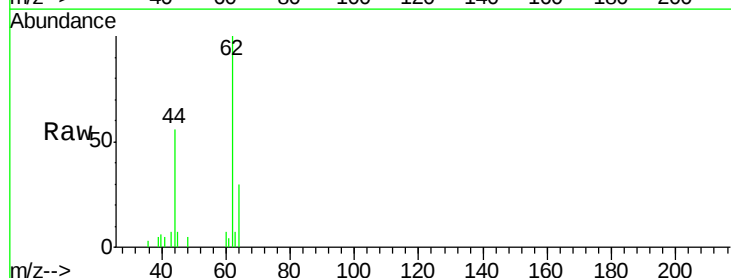
Acq: 23 Oct 2020 1:11

Tgt Ion: 62 Resp: 7070

Ion Ratio Lower Upper

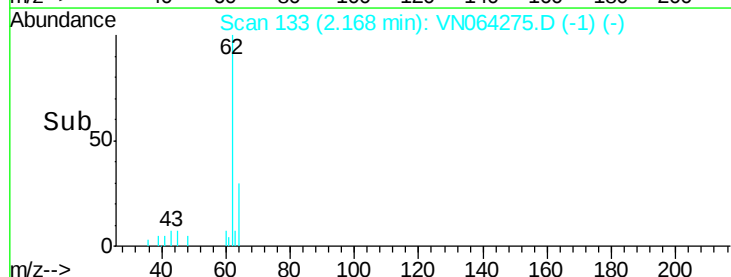
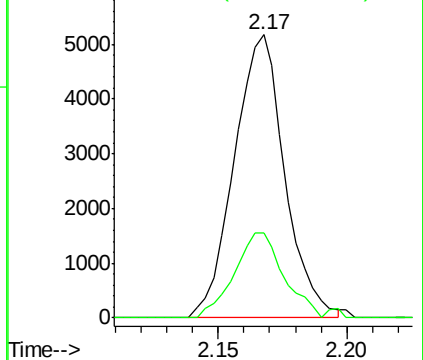
62 100

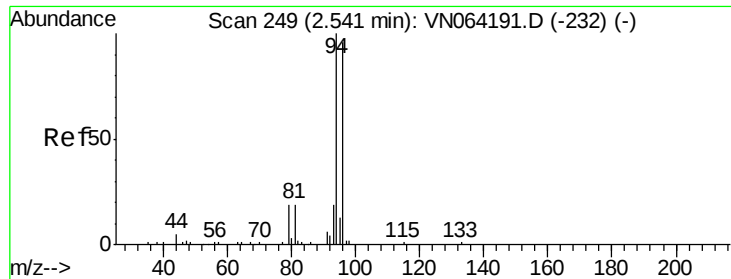
64 30.0 24.4 36.6



Abundance Ion 62.00 (61.70 to 62.70): VN0

Ion 64.00 (63.70 to 64.70): VN0





#5

Bromomethane

Concen: 2.807 ug/l

RT: 2.53 min Scan# 247

Delta R.T. -0.01 min

Lab File: VN064275.D

Acq: 23 Oct 2020 1:11

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2020

Tot Ion: 94 Resp: 5271

Ion Ratio Lower Upper

94 100

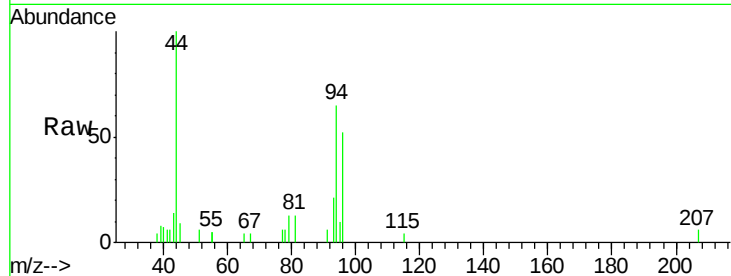
96 80.2 76.6 115.0

Manual Integrations

APPROVED

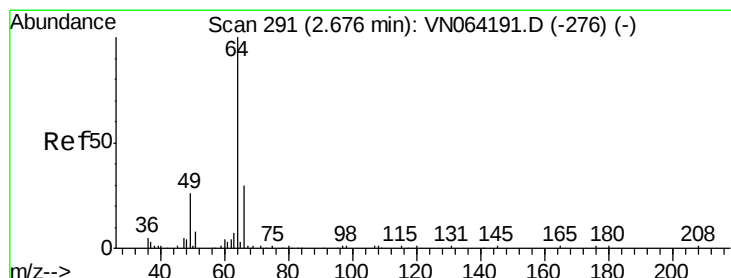
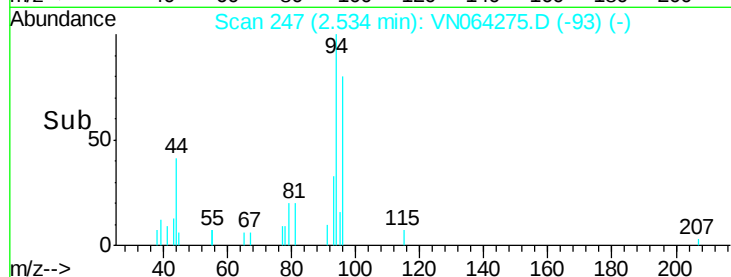
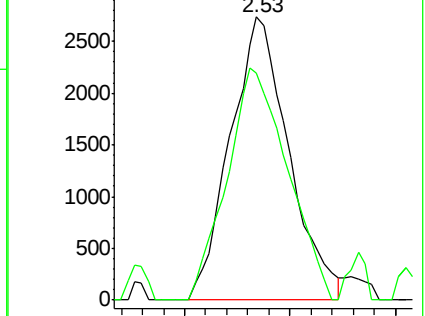
MMDadoda

10/23/2020 3:36:39 PM



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 2.319 ug/l

RT: 2.68 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN064275.D

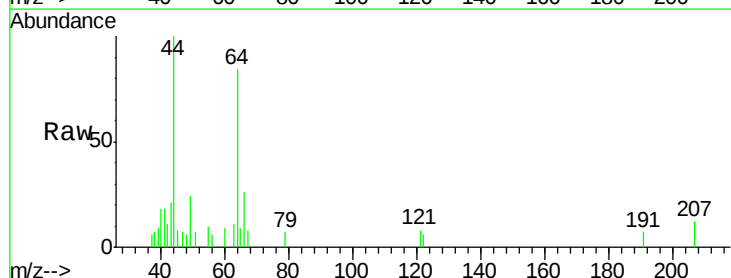
Acq: 23 Oct 2020 1:11

Tgt Ion: 64 Resp: 4239

Ion Ratio Lower Upper

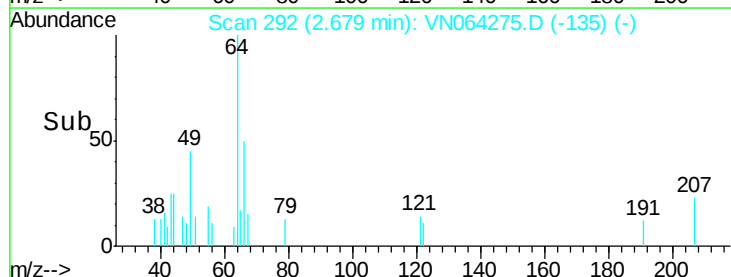
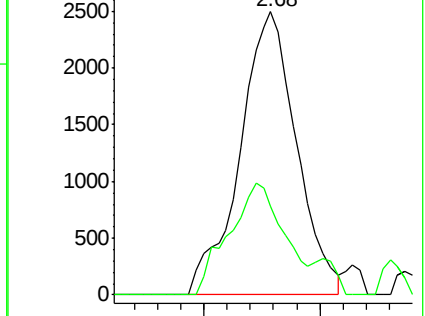
64 100

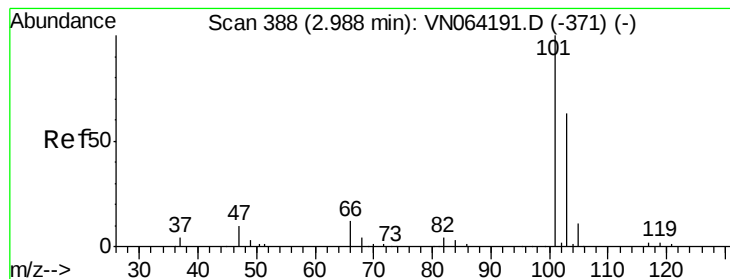
66 31.5 24.3 36.5



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0





#7

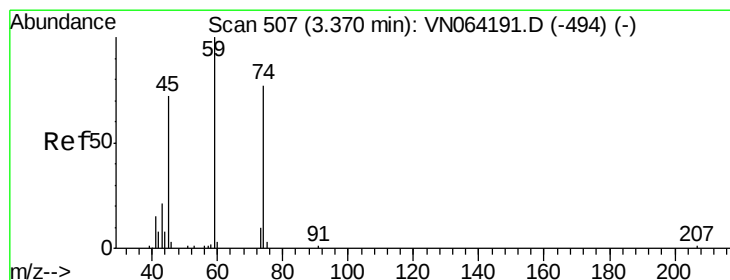
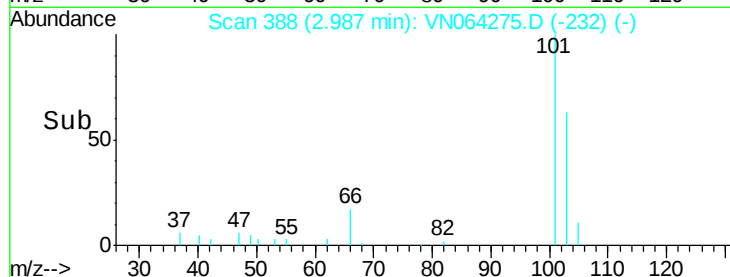
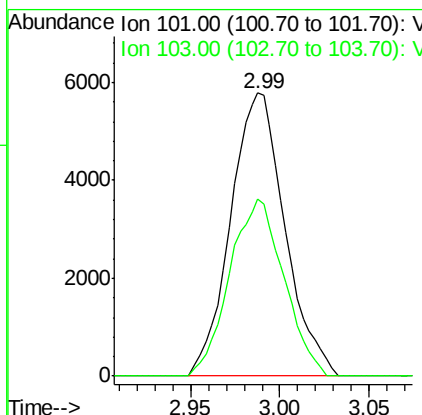
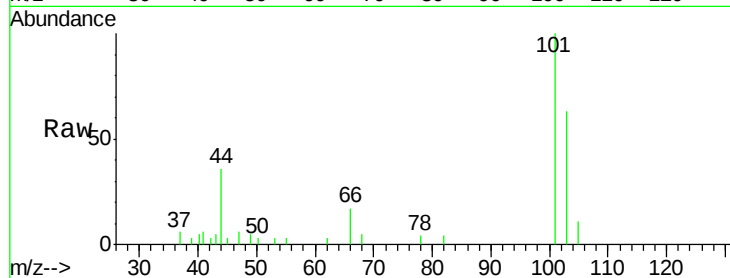
Trichlorofluoromethane
 Concen: 2.435 ug/l
 RT: 2.99 min Scan# 388
 Delta R.T. -0.00 min
 Lab File: VN064275.D
 Acq: 23 Oct 2020 1:11

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2020

Tot Ion	Ratio	Lower	Upper
101	100		
103	62.5	50.7	76.1

Manual Integrations
 APPROVED

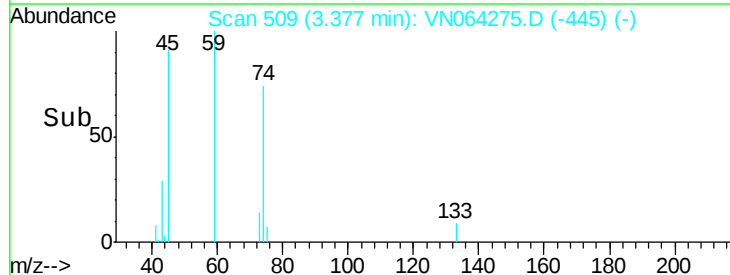
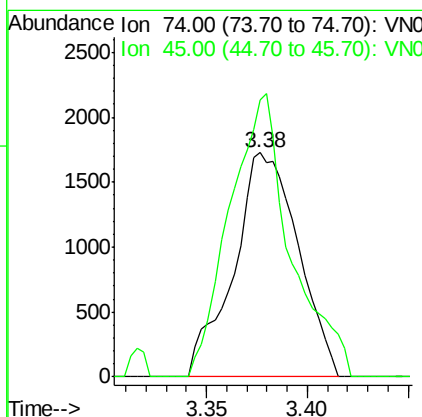
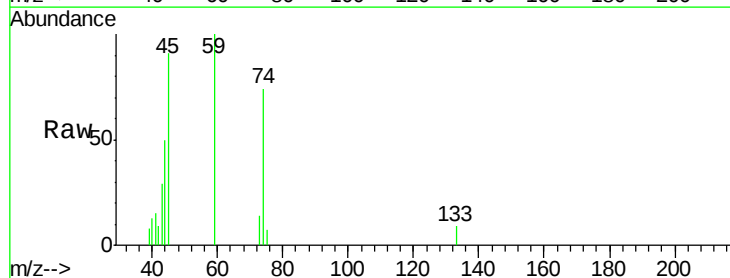
MMDadoda
 10/23/2020 3:36:39 PM

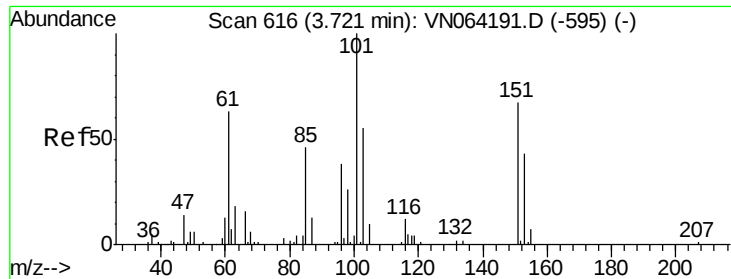


#8

Diethyl Ether
 Concen: 2.248 ug/l
 RT: 3.38 min Scan# 509
 Delta R.T. 0.01 min
 Lab File: VN064275.D
 Acq: 23 Oct 2020 1:11

Tgt Ion	Ratio	Lower	Upper
74	100		
45	119.7	19.5	175.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.550 ug/l

RT: 3.72 min Scan# 616

Delta R.T. -0.00 min

Lab File: VN064275.D

Acq: 23 Oct 2020 1:11

Instrument :

MSVOA_N

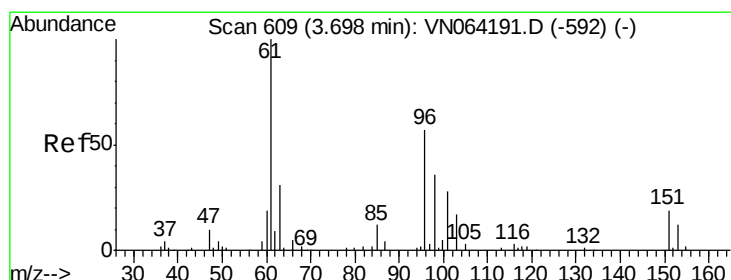
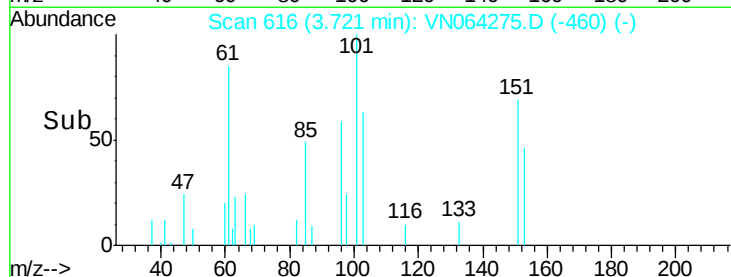
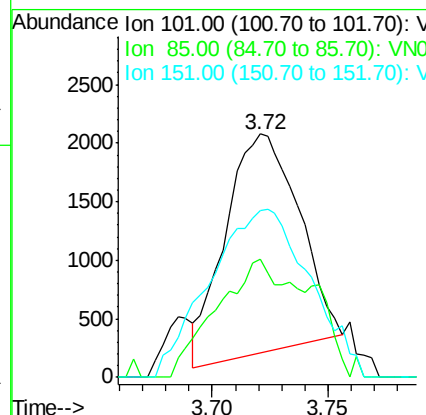
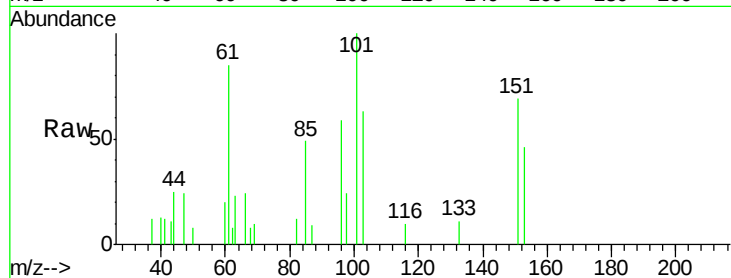
ClientSampleId :

LOD-MDL-WATER-01-QT4-2020

Tot Ion:	101	Resp:	4122
Ion Ratio	Lower	Upper	
101	100		
85	45.2	0.0	94.0
151	104.3	0.0	146.6

Manual Integrations
APPROVED

MMDadoda
10/23/2020 3:36:39 PM



#10

1,1-Dichloroethene

Concen: 2.275 ug/l

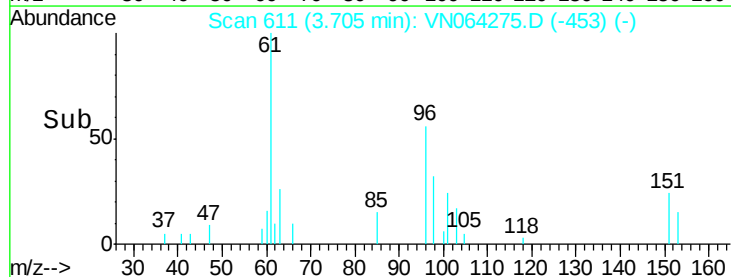
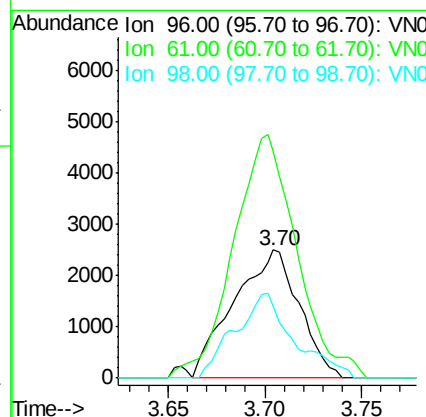
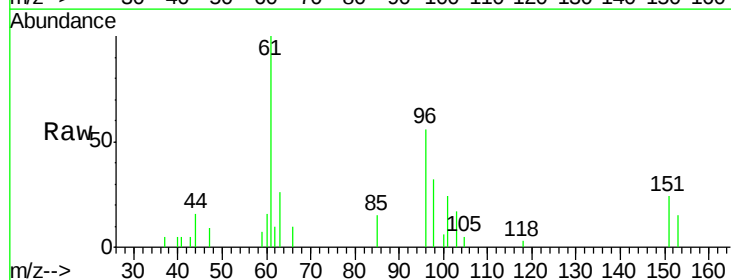
RT: 3.70 min Scan# 611

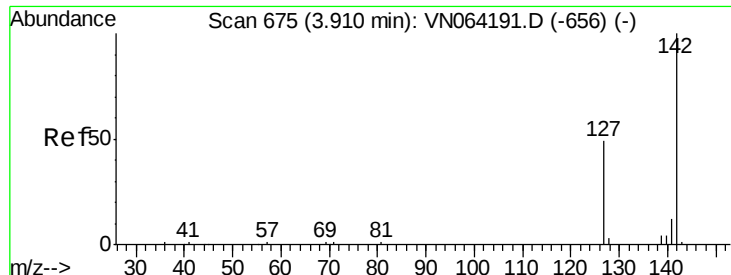
Delta R.T. 0.01 min

Lab File: VN064275.D

Acq: 23 Oct 2020 1:11

Tgt Ion:	96	Resp:	5889
Ion Ratio	Lower	Upper	
96	100		
61	164.4	141.0	211.4
98	56.4	51.4	77.2





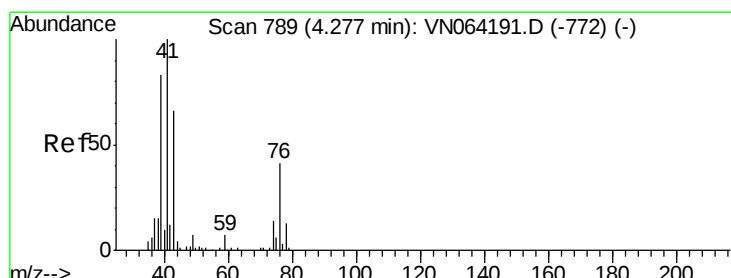
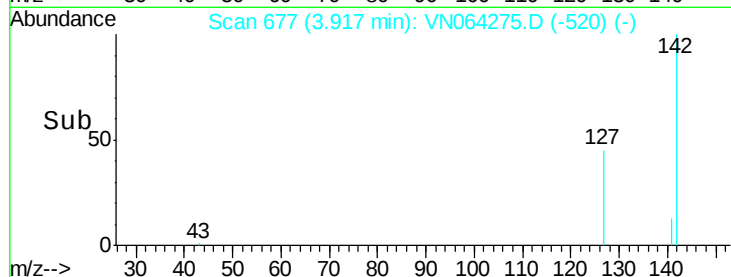
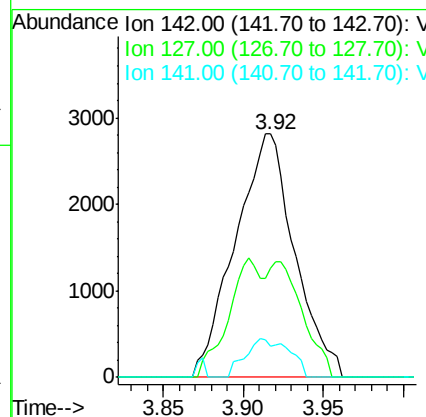
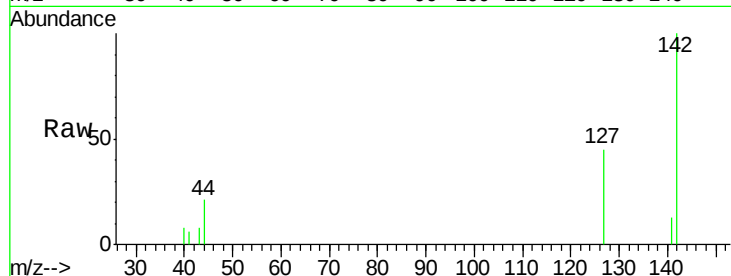
#11
Methvl Iodide
Concen: 1.920 ug/l
RT: 3.92 min Scan# 677
Delta R.T. 0.01 min
Lab File: VN064275.D
Acq: 23 Oct 2020 1:11

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2020

Tot Ion	Ratio	Lower	Upper
142	100		
127	44.7	24.5	73.5
141	13.0	6.0	18.1

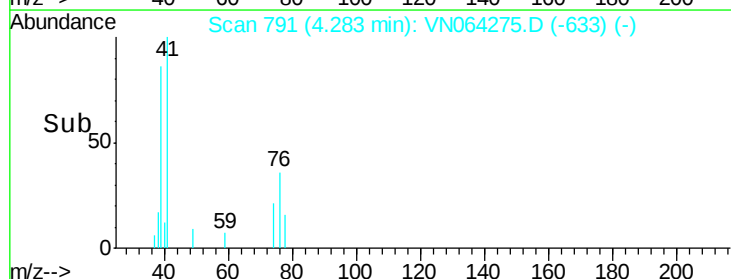
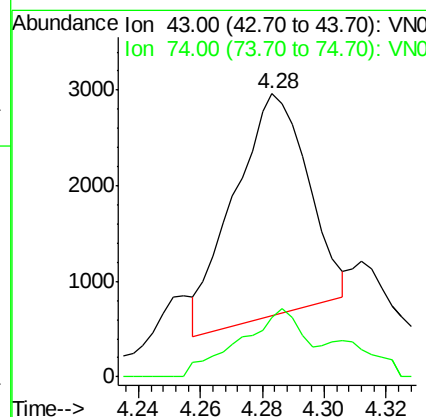
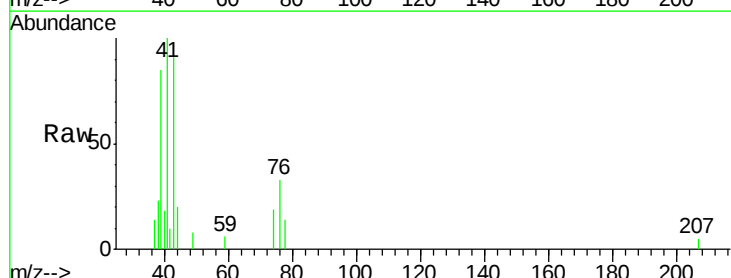
Manual Integrations
APPROVED

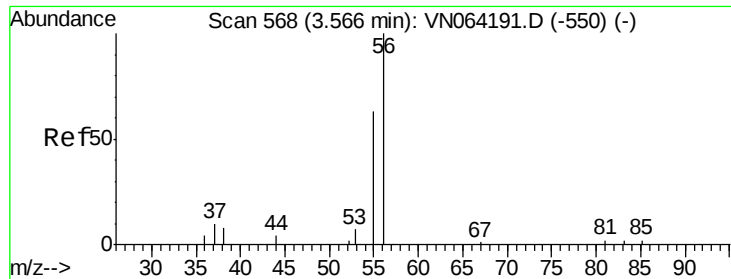
MMDadoda
10/23/2020 3:36:39 PM



#12
Methyl Acetate
Concen: 1.422 ug/l
RT: 4.28 min Scan# 791
Delta R.T. 0.01 min
Lab File: VN064275.D
Acq: 23 Oct 2020 1:11

Tgt Ion	Ratio	Lower	Upper
43	100		
74	17.9	16.2	24.2





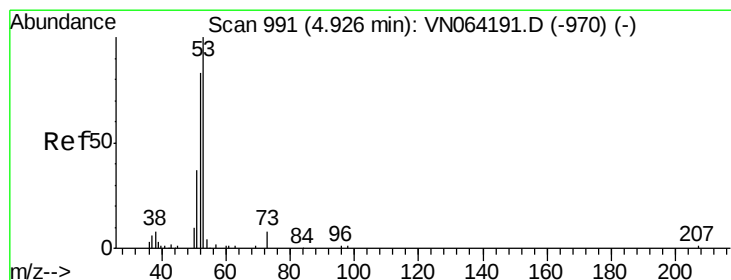
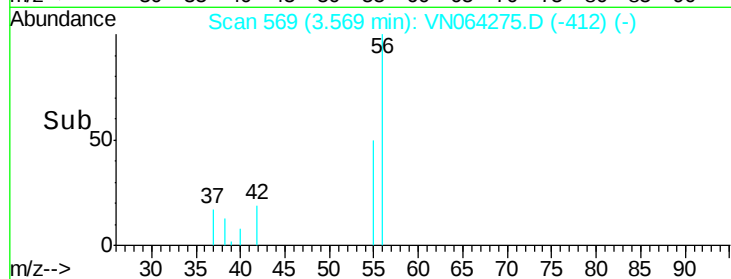
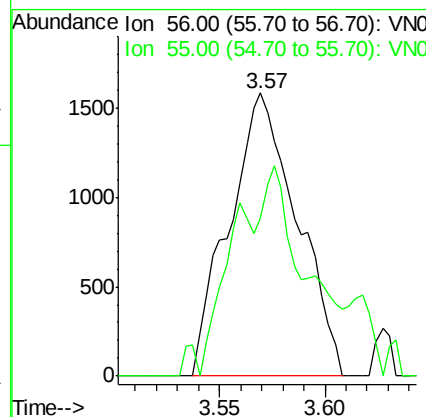
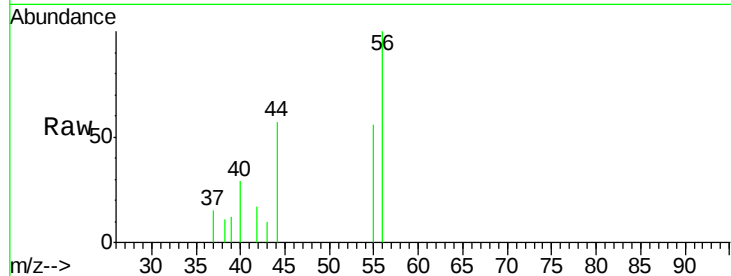
#13
 Acrolein
 Concen: 11.878 ug/l
 RT: 3.57 min Scan# 569
 Delta R.T. 0.00 min
 Lab File: VN064275.D
 Acq: 23 Oct 2020 1:11

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
56	100		3544		
55	16.8	0.5	0.7#		

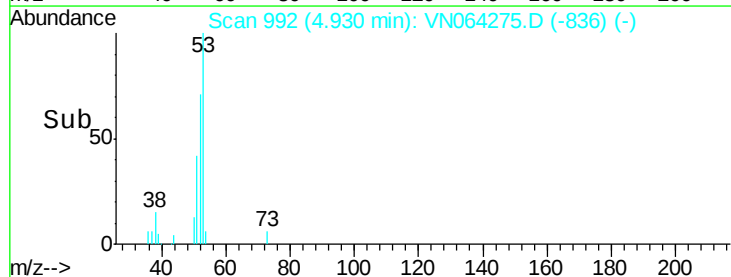
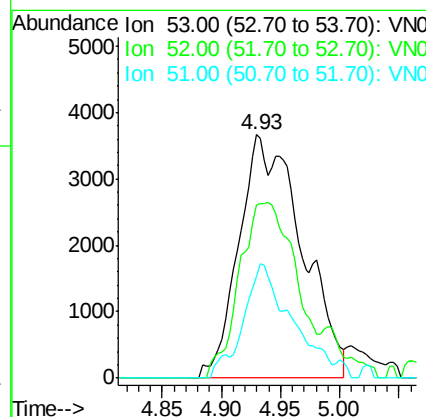
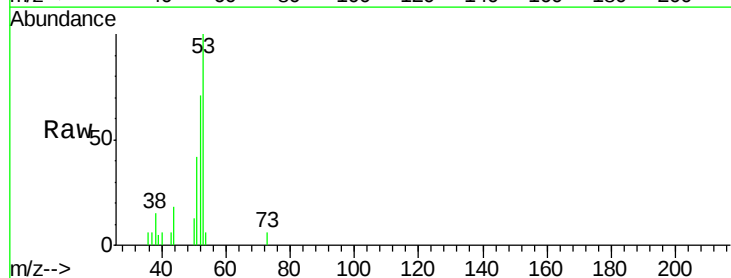
Manual Integrations
 APPROVED

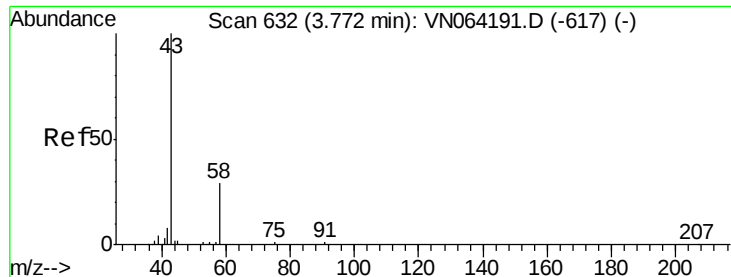
MMDadoda
 10/23/2020 3:36:39 PM



#14
 Acrylonitrile
 Concen: 12.313 ug/l m
 RT: 4.93 min Scan# 992
 Delta R.T. 0.00 min
 Lab File: VN064275.D
 Acq: 23 Oct 2020 1:11

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
53	100		13540		
52	0.0	41.3	123.9#		
51	17.2	18.1	54.1#		





#15

Acetone

Concen: 12.984 ug/l

RT: 3.79 min Scan# 637

Delta R.T. 0.02 min

Lab File: VN064275.D

Acq: 23 Oct 2020 1:11

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2020

Tot Ion: 58 Resp: 3855

Ion Ratio Lower Upper

58 100

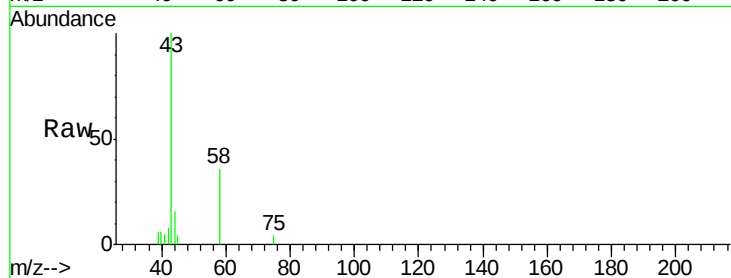
43 234.3 272.1 408.1#

Manual Integrations

APPROVED

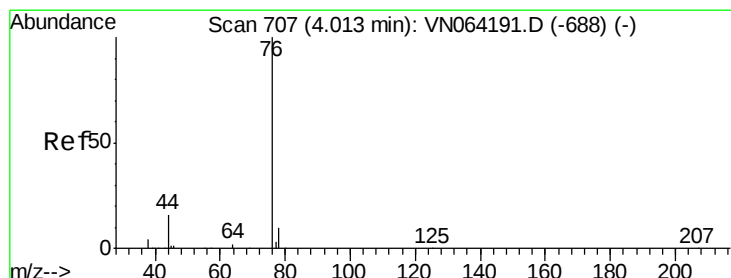
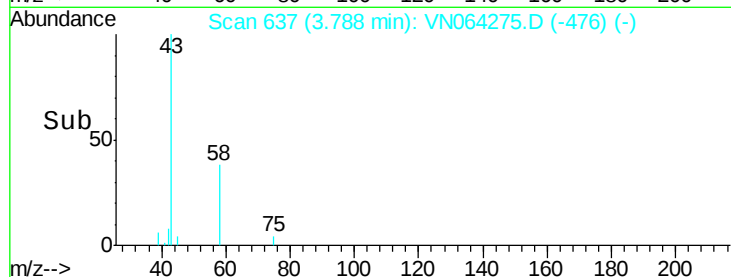
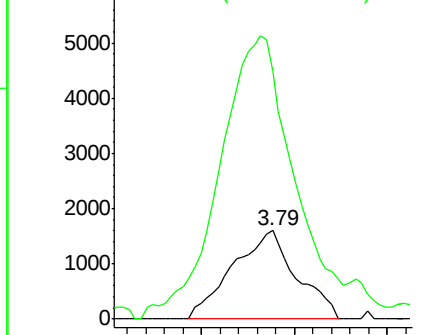
MMDadoda

10/23/2020 3:36:39 PM



Abundance Ion 58.00 (57.70 to 58.70): VN064191.D (-617) (-)

Ion 43.00 (42.70 to 43.70): VN064191.D (-617) (-)



#16

Carbon Disulfide

Concen: 2.122 ug/l

RT: 4.01 min Scan# 707

Delta R.T. -0.00 min

Lab File: VN064275.D

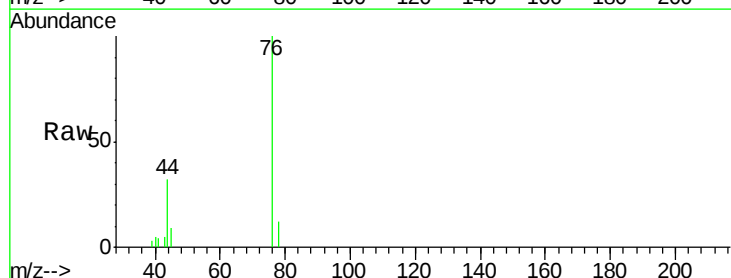
Acq: 23 Oct 2020 1:11

Tgt Ion: 76 Resp: 15710

Ion Ratio Lower Upper

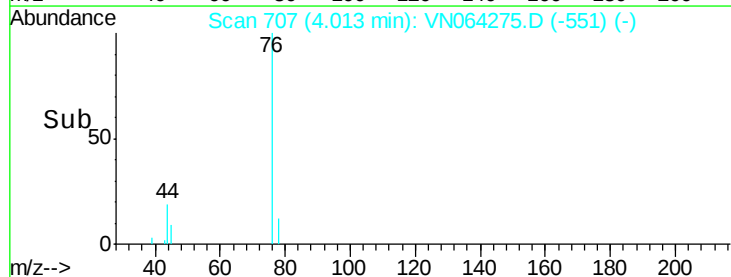
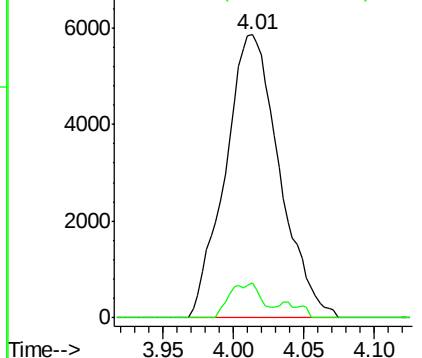
76 100

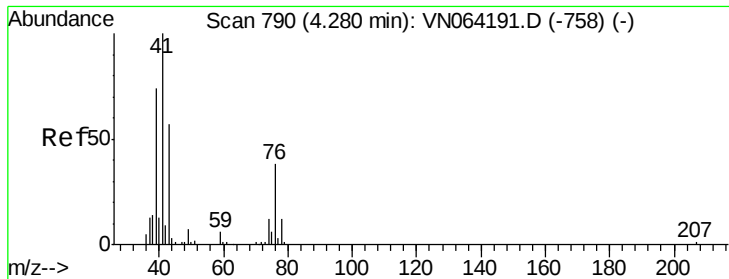
78 12.3 7.7 11.5#



Abundance Ion 76.00 (75.70 to 76.70): VN064191.D (-688) (-)

Ion 78.00 (77.70 to 78.70): VN064191.D (-688) (-)





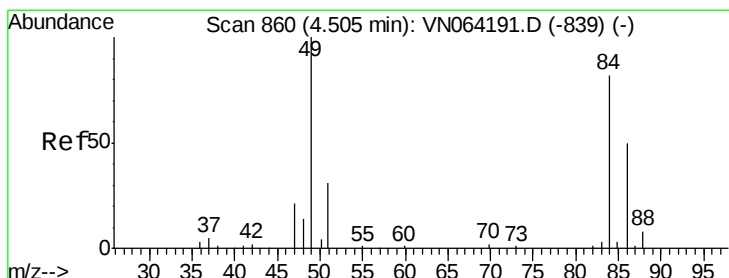
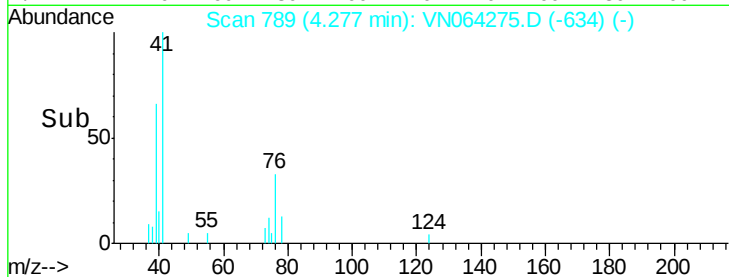
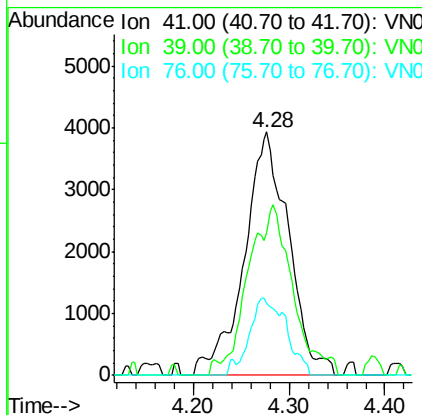
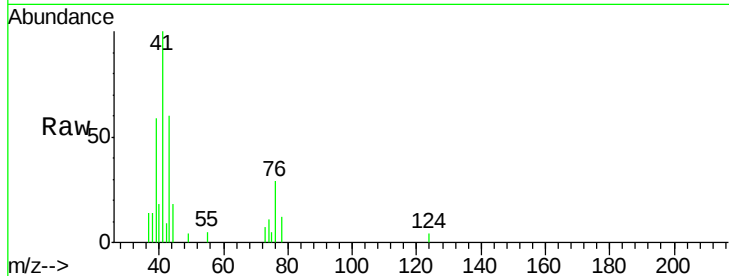
#17
Allvl chloride
Concen: 2.632 ug/l m
RT: 4.28 min Scan# 789
Delta R.T. -0.00 min
Lab File: VN064275.D
Acq: 23 Oct 2020 1:11

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2020

Tot Ion	Ratio	Lower	Upper
41	100		
39	58.7	36.8	110.4
76	29.4	18.8	56.4

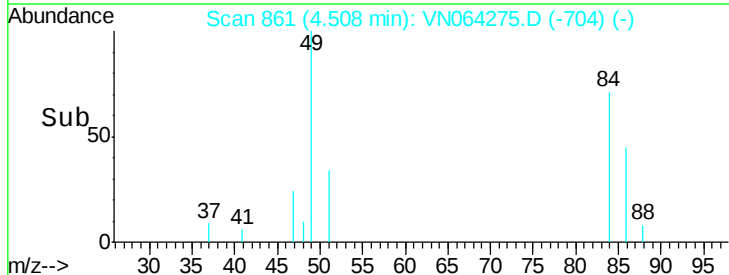
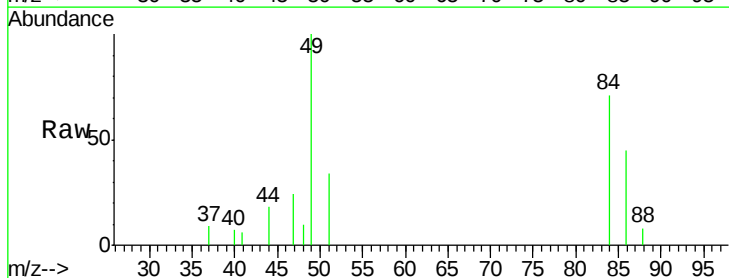
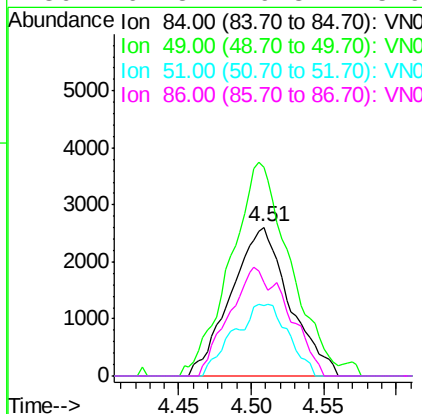
Manual Integrations
APPROVED

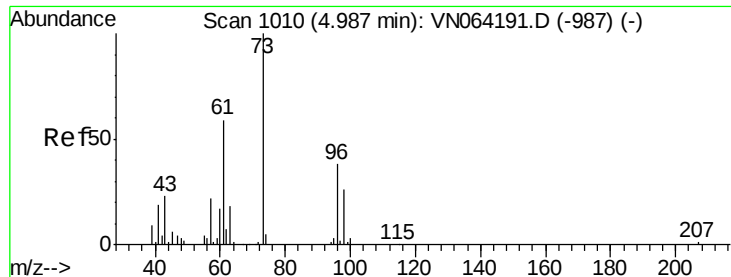
MMDadoda
10/23/2020 3:36:39 PM



#18
Methylene Chloride
Concen: 2.465 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.00 min
Lab File: VN064275.D
Acq: 23 Oct 2020 1:11

Tgt Ion	Ratio	Lower	Upper
84	100		
49	134.0	97.6	146.4
51	47.2	31.1	46.7#
86	62.8	49.3	73.9





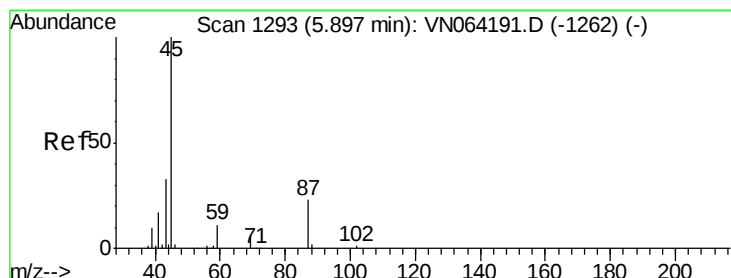
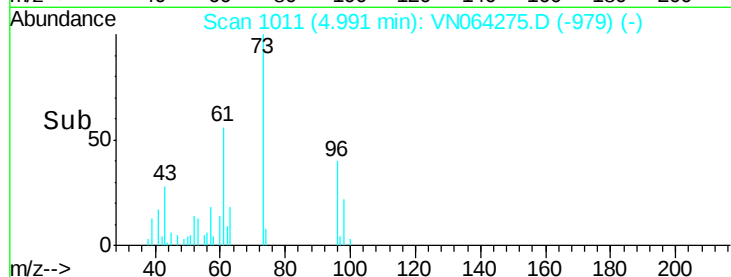
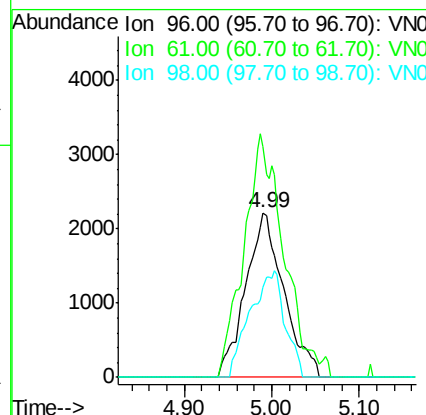
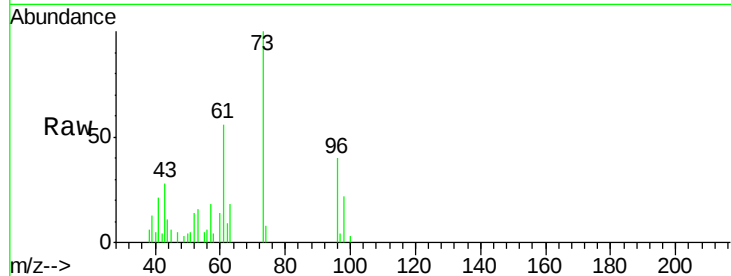
#19
trans-1,2-Dichloroethene
Concen: 2.402 ug/l m
RT: 4.99 min Scan# 1011
Delta R.T. 0.00 min
Lab File: VN064275.D
Acq: 23 Oct 2020 1:11

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2020

Tot Ion	Ratio	Lower	Upper
96	100		
61	140.5	125.5	188.3
98	54.5	54.7	82.1#

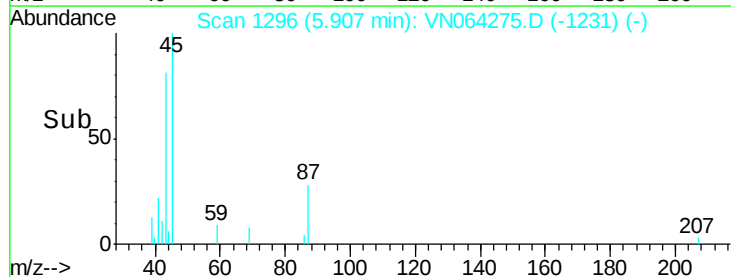
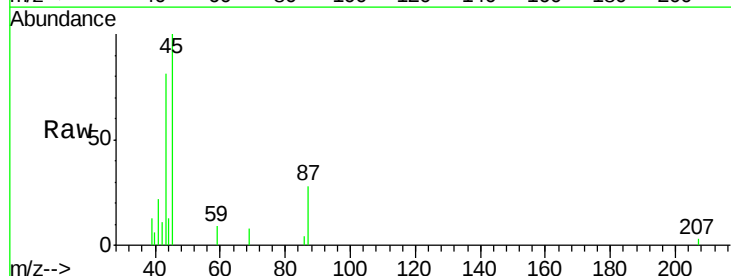
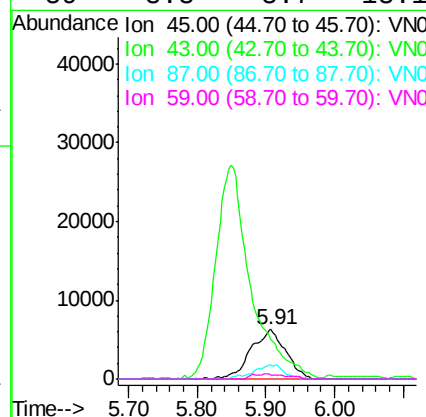
Manual Integrations
APPROVED

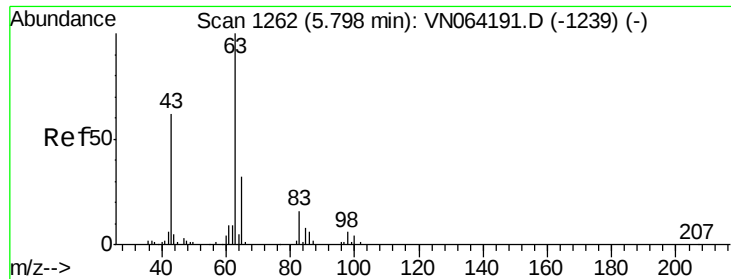
MMDadoda
10/23/2020 3:36:39 PM



#20
Diisopropyl ether
Concen: 2.471 ug/l m
RT: 5.91 min Scan# 1296
Delta R.T. 0.01 min
Lab File: VN064275.D
Acq: 23 Oct 2020 1:11

Tgt Ion	Ratio	Lower	Upper
45	100		
43	81.1	55.1	82.7
87	27.8	19.4	29.2
59	8.8	8.7	13.1





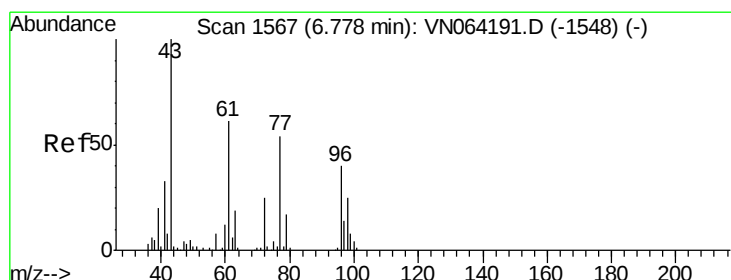
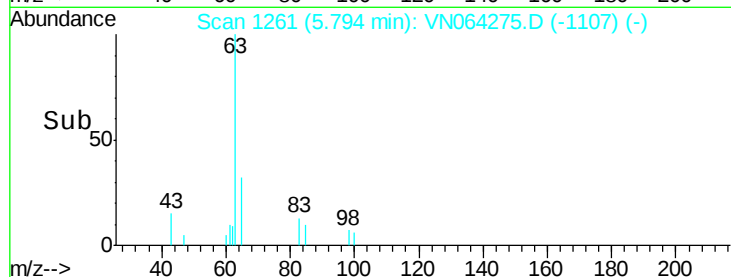
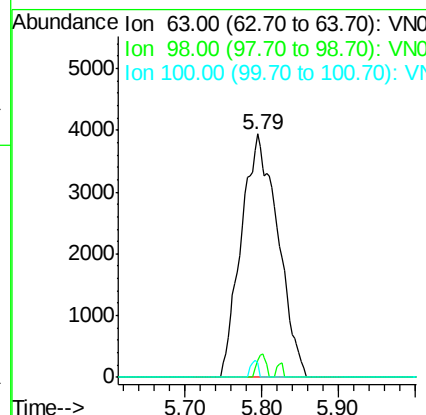
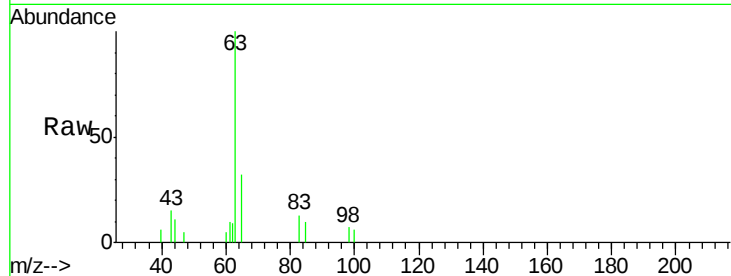
#21
 1,1-Dichloroethane
 Concen: 2.402 ug/l m
 RT: 5.79 min Scan# 1261
 Delta R.T. -0.00 min
 Lab File: VN064275.D
 Acq: 23 Oct 2020 1:11

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2020

Tot Ion:	63	Resp:	13044
Ion Ratio	Lower	Upper	
63	100		
98	7.1	2.9	8.7
100	5.8	2.1	6.3

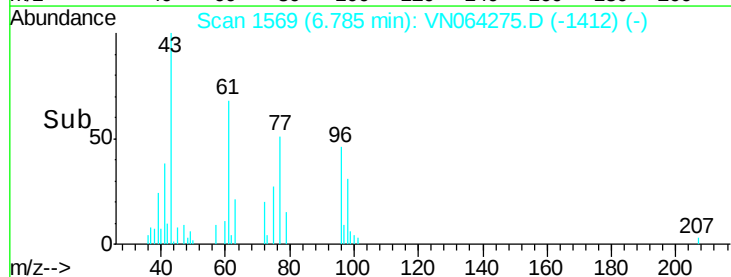
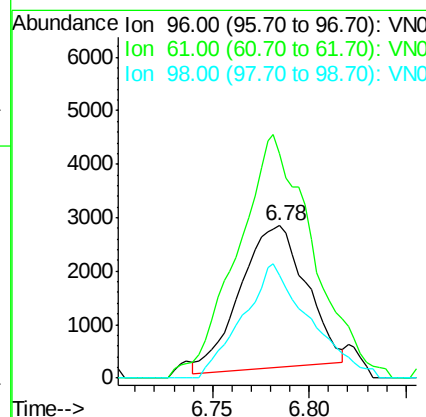
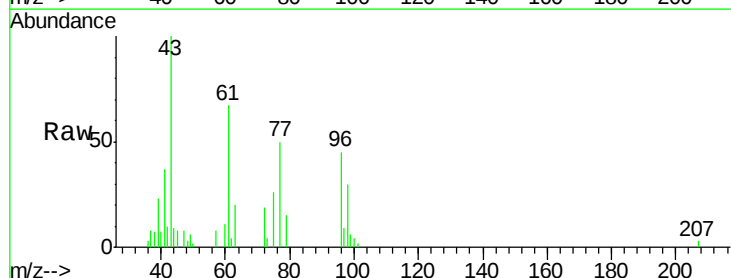
Manual Integrations
 APPROVED

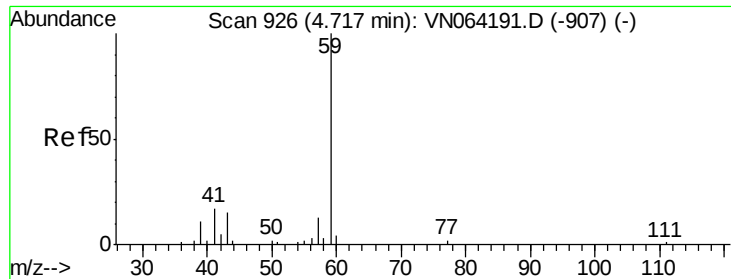
MMDadoda
 10/23/2020 3:36:39 PM



#22
 cis-1,2-Dichloroethene
 Concen: 1.940 ug/l
 RT: 6.78 min Scan# 1569
 Delta R.T. 0.01 min
 Lab File: VN064275.D
 Acq: 23 Oct 2020 1:11

Tgt Ion:	96	Resp:	6334
Ion Ratio	Lower	Upper	
96	100		
61	194.8	126.2	189.4#
98	80.7	50.2	75.4#





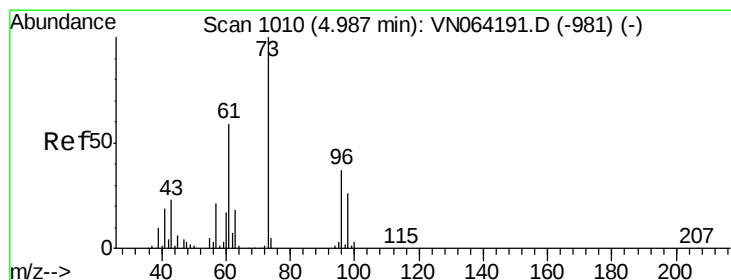
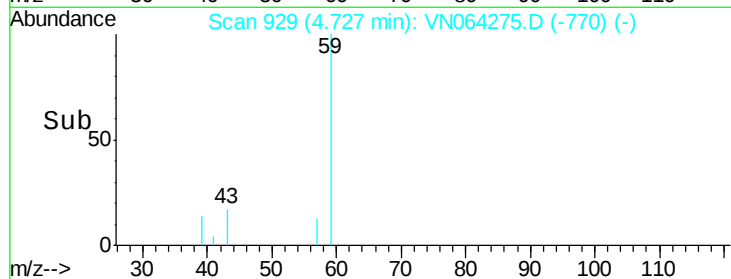
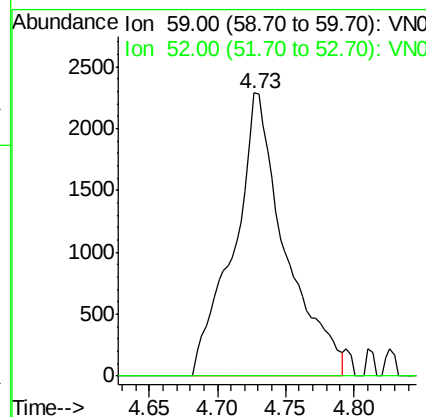
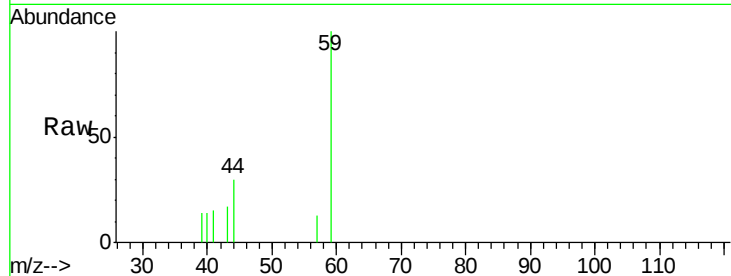
#23
 tert-Butyl Alcohol
 Concen: 11.820 ug/l
 RT: 4.73 min Scan# 929
 Delta R.T. 0.01 min
 Lab File: VN064275.D
 Acq: 23 Oct 2020 1:11

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2020

Tot Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0

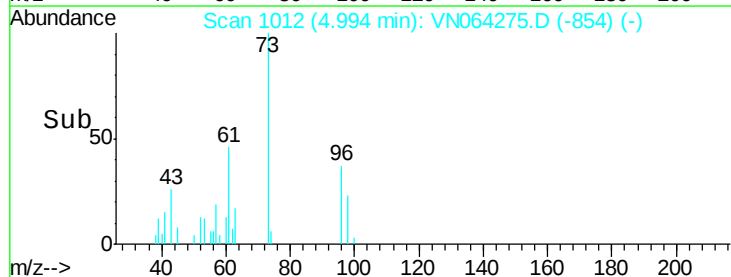
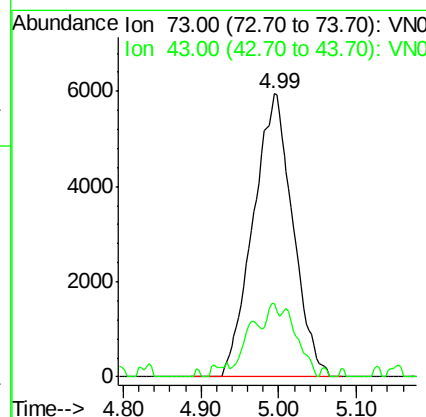
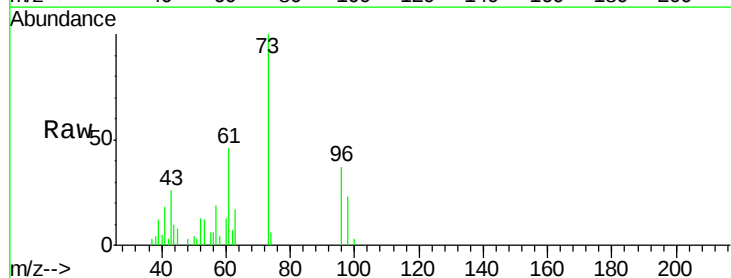
Manual Integrations
 APPROVED

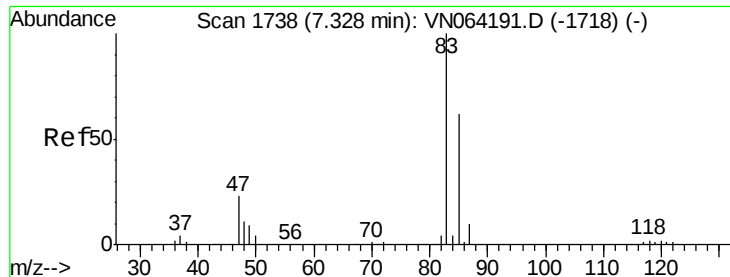
MMDadoda
 10/23/2020 3:36:39 PM



#24
 Methyl tert-Butyl Ether
 Concen: 2.459 ug/l m
 RT: 4.99 min Scan# 1012
 Delta R.T. 0.01 min
 Lab File: VN064275.D
 Acq: 23 Oct 2020 1:11

Tgt Ion	Ratio	Lower	Upper
73	100		
43	0.4	18.2	27.2#





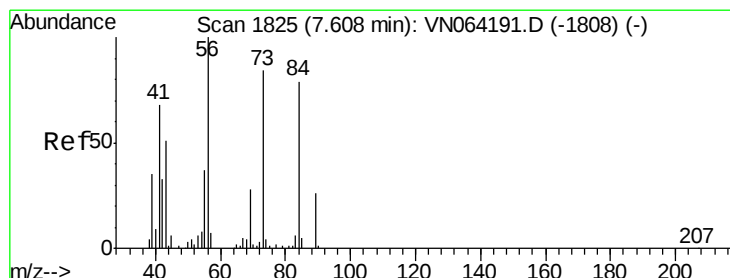
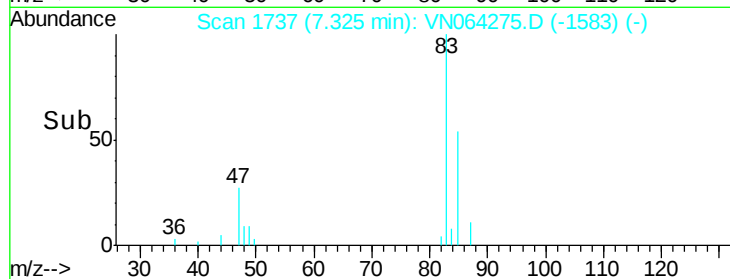
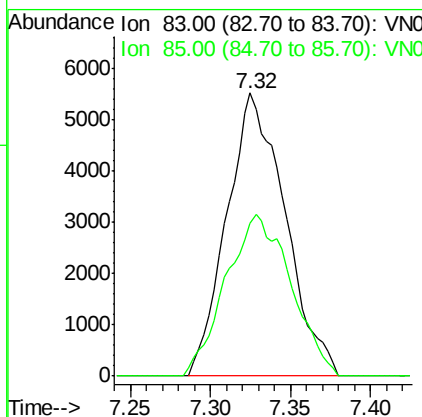
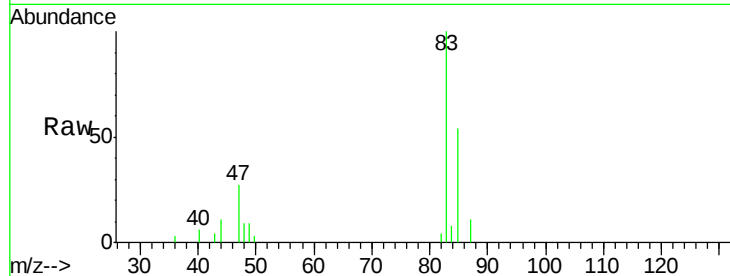
#25
Chloroform
Concen: 2.443 ug/l
RT: 7.32 min Scan# 1737
Delta R.T. -0.00 min
Lab File: VN064275.D
Acq: 23 Oct 2020 1:11

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2020

Tot Ion	83	Resp	13788
Ion Ratio	100	Lower	Upper
83	100		
85	50.2	49.7	74.5

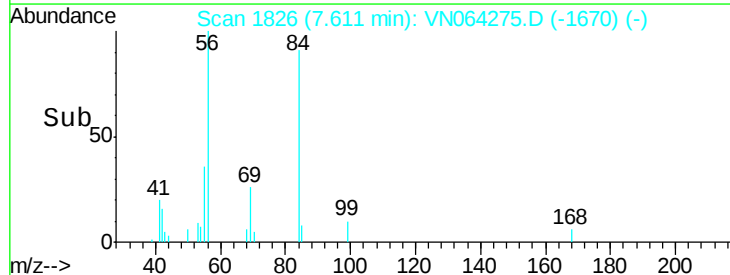
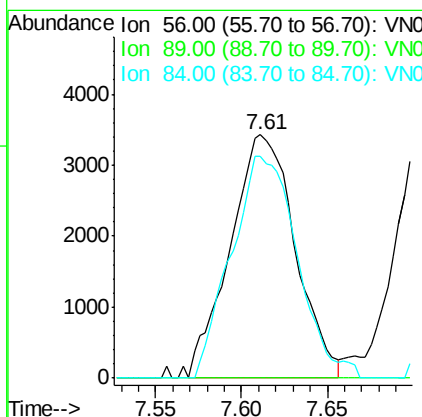
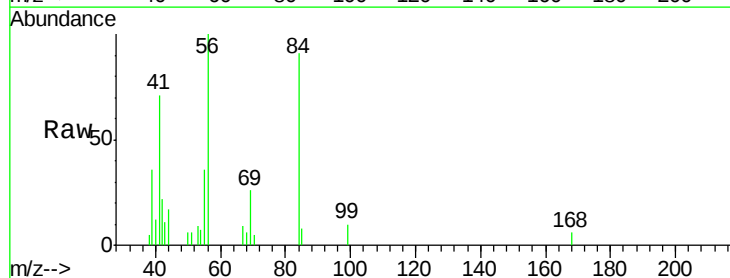
Manual Integrations
APPROVED

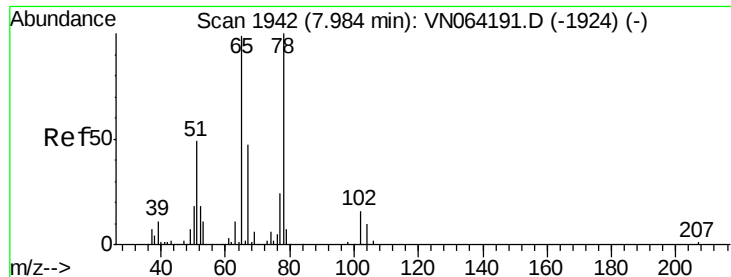
MMDadoda
10/23/2020 3:36:39 PM



#26
Cyclohexane
Concen: 2.087 ug/l
RT: 7.61 min Scan# 1826
Delta R.T. 0.00 min
Lab File: VN064275.D
Acq: 23 Oct 2020 1:11

Tgt Ion	56	Resp	8987
Ion Ratio	100	Lower	Upper
56	100		
89	0.0	21.4	32.0#
84	91.7	65.8	98.6





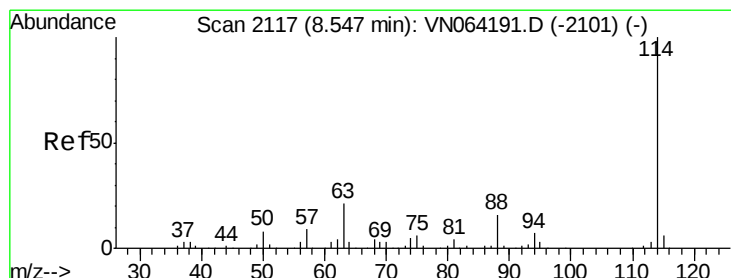
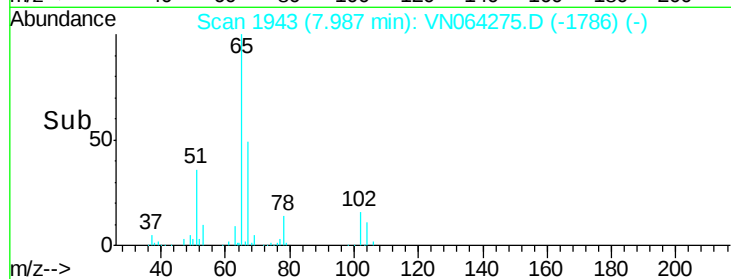
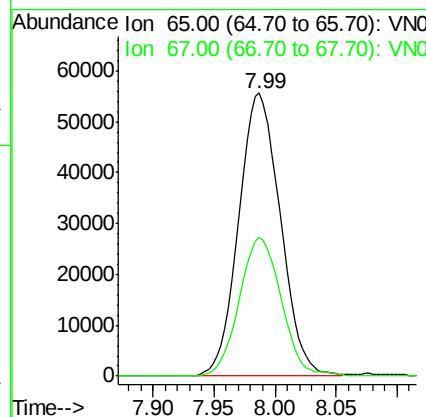
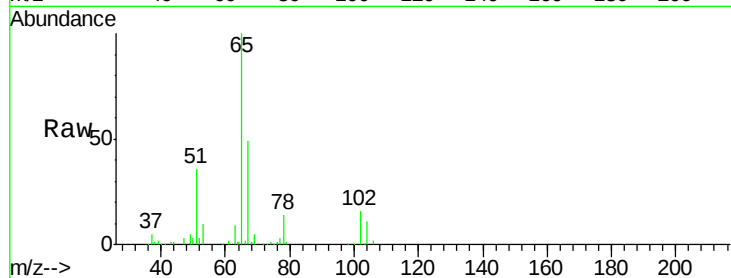
#27
 1,2-Dichloroethane-d4
 Concen: 35.487 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VN064275.D
 Acq: 23 Oct 2020 1:11

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2020

Tot Ion	Ratio	Lower	Upper
65	100		
67	48.8	39.8	59.6

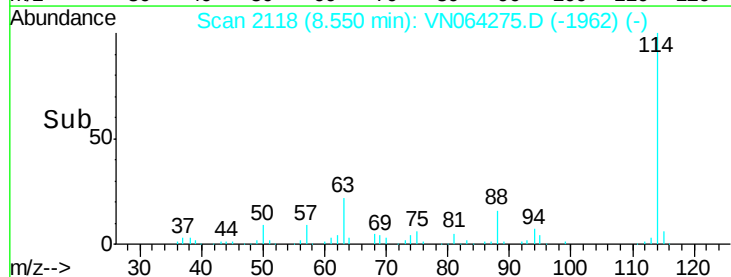
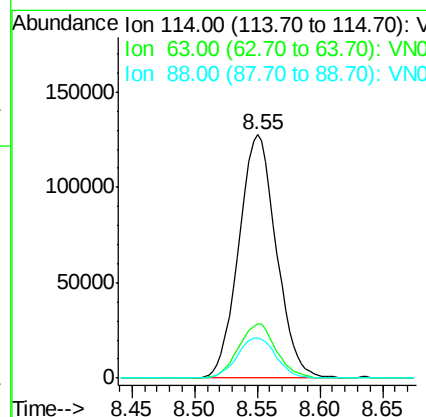
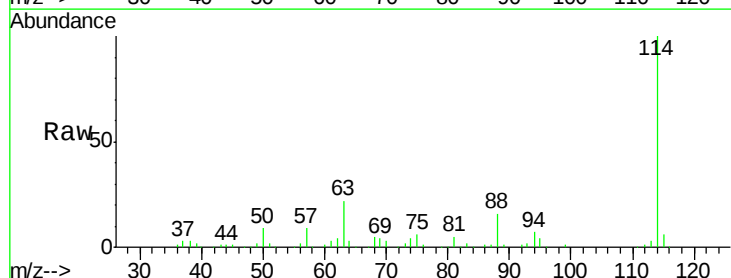
Manual Integrations
 APPROVED

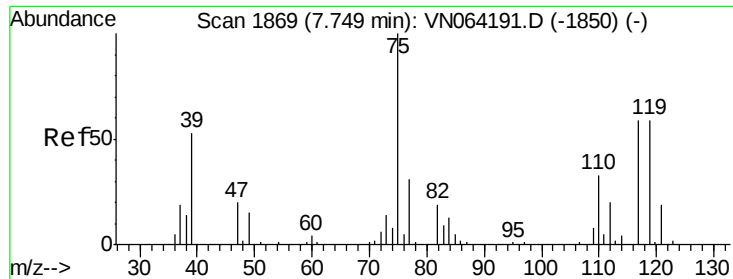
MMDadoda
 10/23/2020 3:36:39 PM



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064275.D
 Acq: 23 Oct 2020 1:11

Tgt Ion	Ratio	Lower	Upper
114	100		
63	22.4	17.0	25.4
88	17.0	13.0	19.4





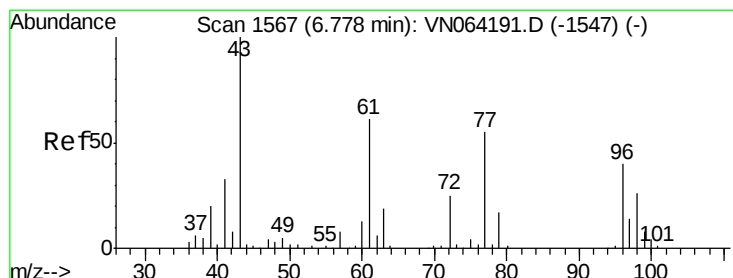
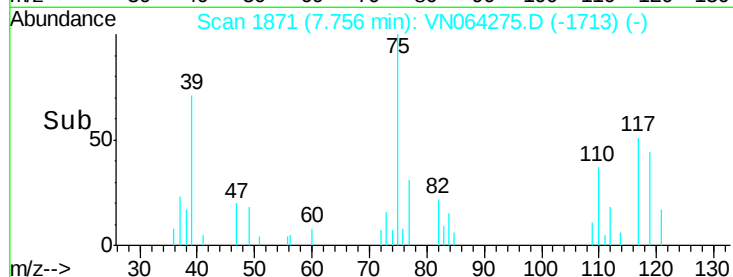
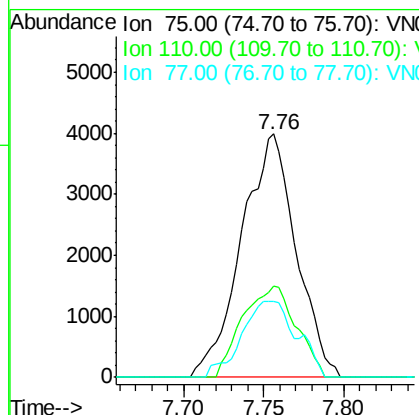
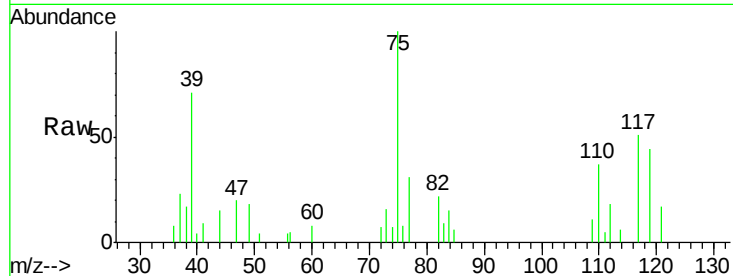
#29
 1,1-Dichloropropene
 Concen: 2.121 ug/l
 RT: 7.76 min Scan# 1871
 Delta R.T. 0.01 min
 Lab File: VN064275.D
 Acq: 23 Oct 2020 1:11

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2020

Tot Ion	Ratio	Lower	Upper
75	100		
110	36.9	0.0	66.8
77	18.7	0.0	63.6

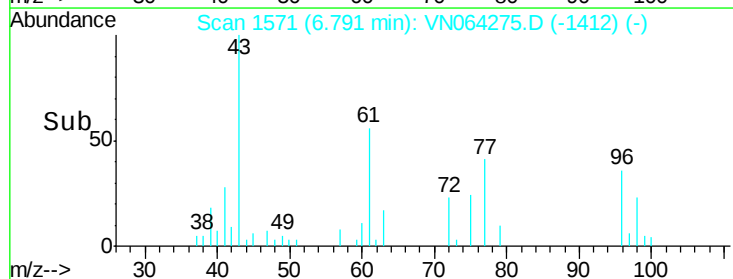
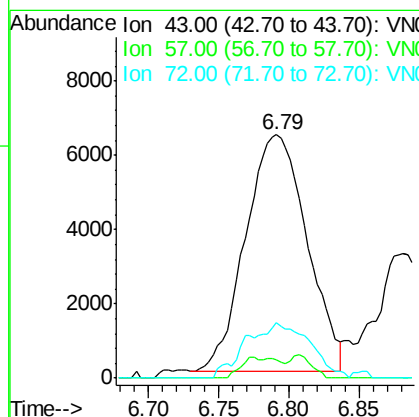
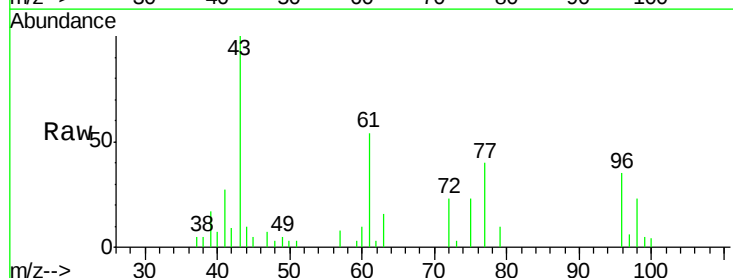
Manual Integrations
 APPROVED

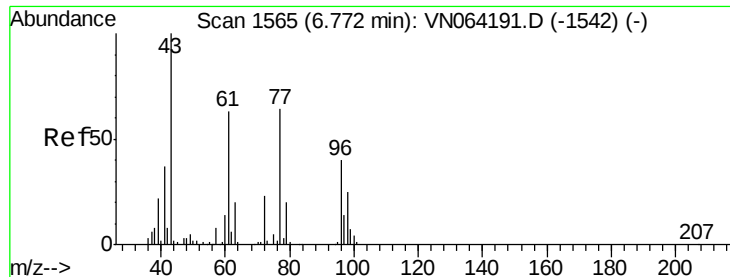
MMDadoda
 10/23/2020 3:36:39 PM



#30
 2-Butanone
 Concen: 10.588 ug/l
 RT: 6.79 min Scan# 1571
 Delta R.T. 0.01 min
 Lab File: VN064275.D
 Acq: 23 Oct 2020 1:11

Tgt Ion	Ratio	Lower	Upper
43	100		
57	3.4	5.8	8.6#
72	14.6	19.8	29.8#





#31

2,2-Dichloropropane

Concen: 1.911 ug/l

RT: 6.77 min Scan# 1565

Delta R.T. -0.00 min

Lab File: VN064275.D

Acq: 23 Oct 2020 1:11

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2020

Tot Ion: 77 Resp: 10698

Ion Ratio Lower Upper

77 100

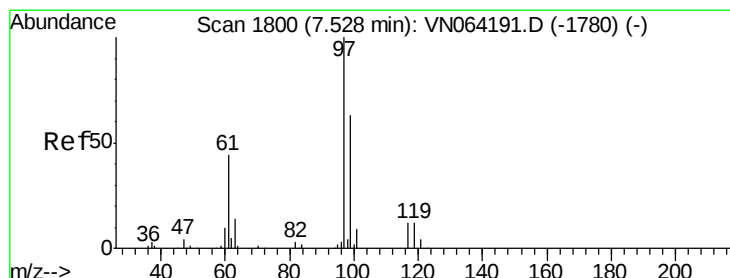
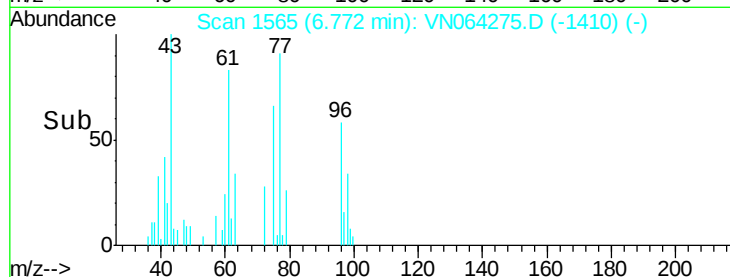
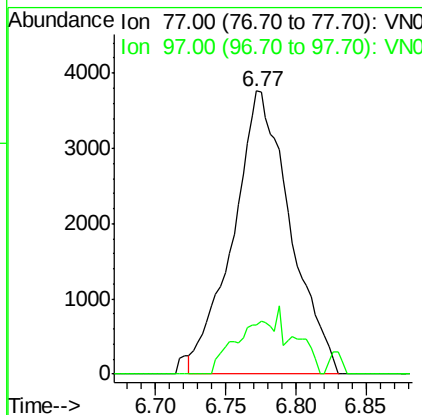
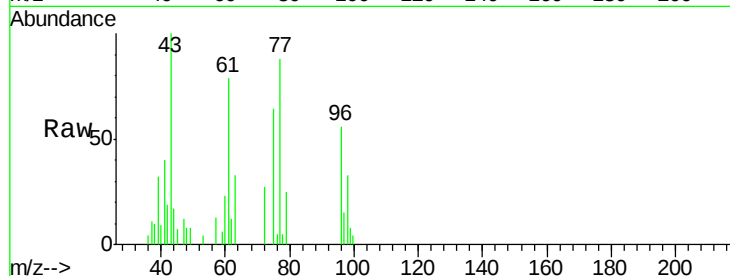
97 5.5 17.3 25.9#

Manual Integrations

APPROVED

MMDadoda

10/23/2020 3:36:39 PM



#32

1,1,1-Trichloroethane

Concen: 2.175 ug/l

RT: 7.53 min Scan# 1801

Delta R.T. 0.00 min

Lab File: VN064275.D

Acq: 23 Oct 2020 1:11

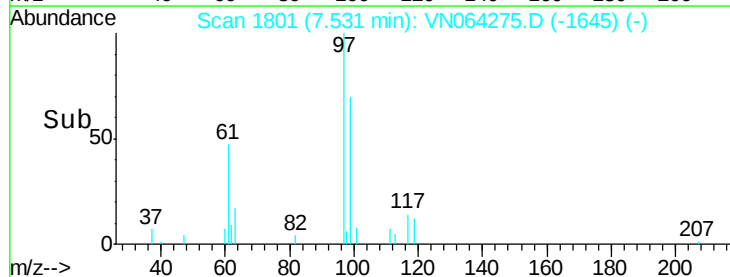
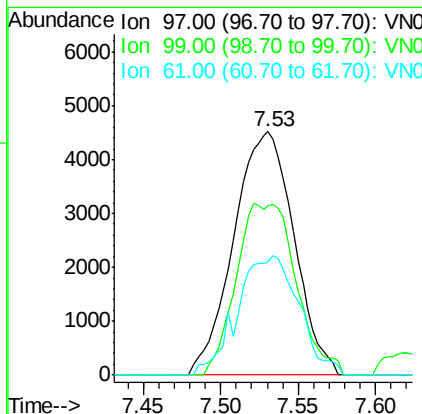
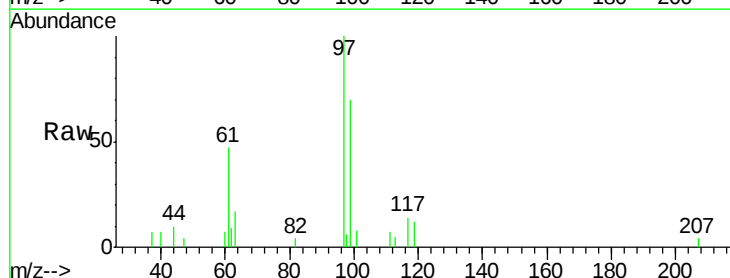
Tgt Ion: 97 Resp: 12221

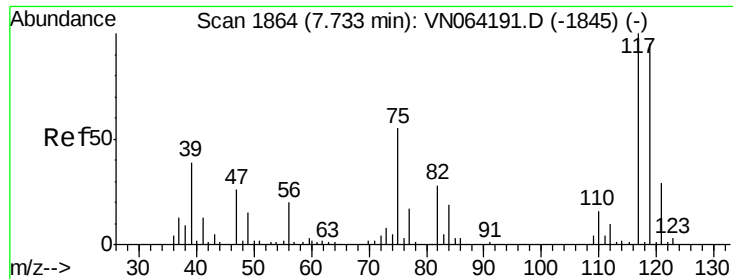
Ion Ratio Lower Upper

97 100

99 33.9 51.3 76.9#

61 10.4 34.8 52.2#





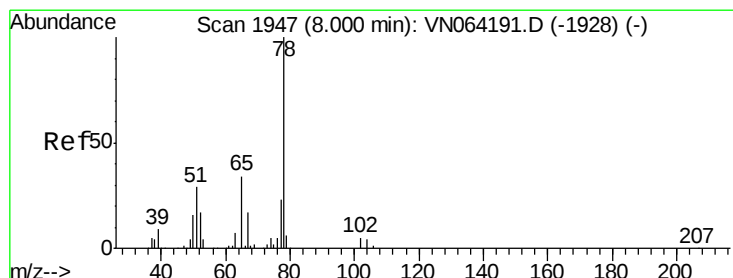
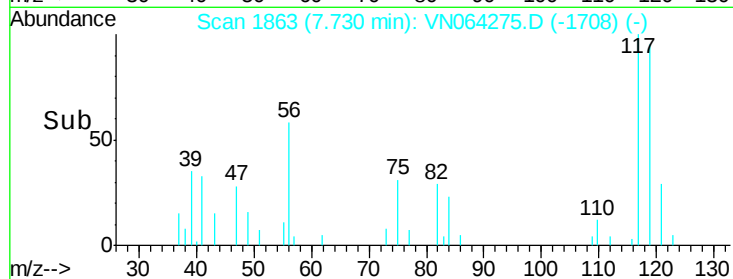
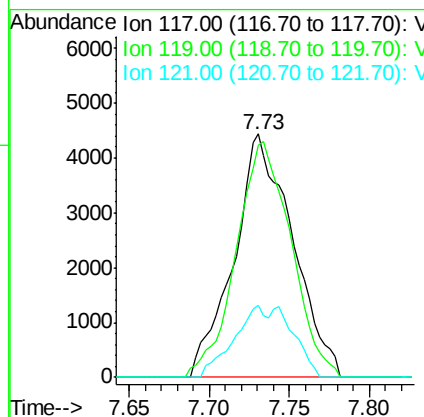
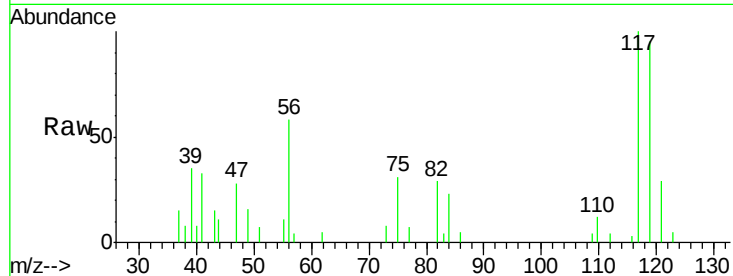
#33
Carbon Tetrachloride
Concen: 2.181 ug/l
RT: 7.73 min Scan# 1863
Delta R.T. -0.00 min
Lab File: VN064275.D
Acq: 23 Oct 2020 1:11

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2020

Tot Ion	Ratio	Lower	Upper
117	100		
119	95.4	76.0	114.0
121	29.4	23.0	34.6

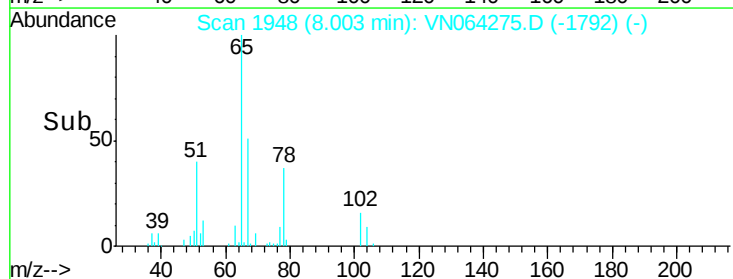
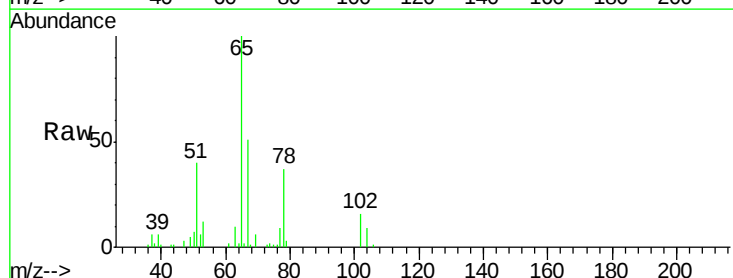
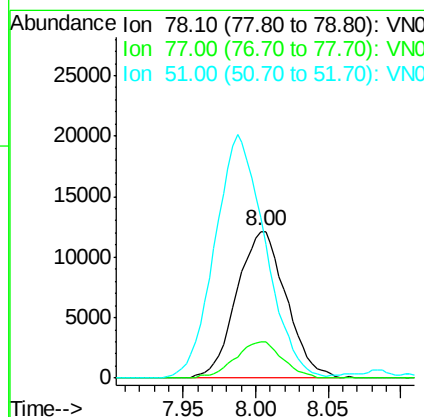
Manual Integrations
APPROVED

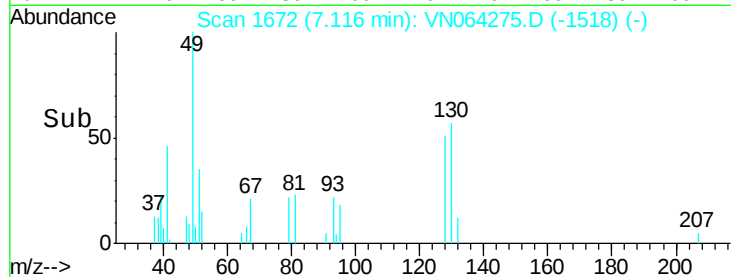
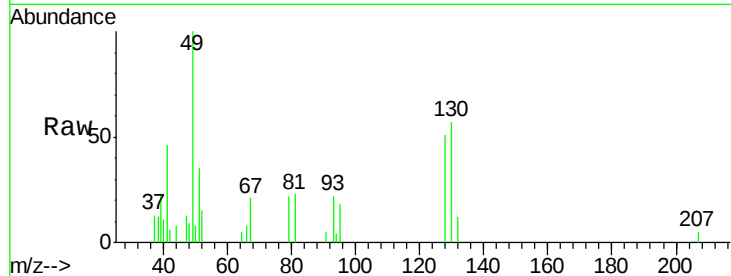
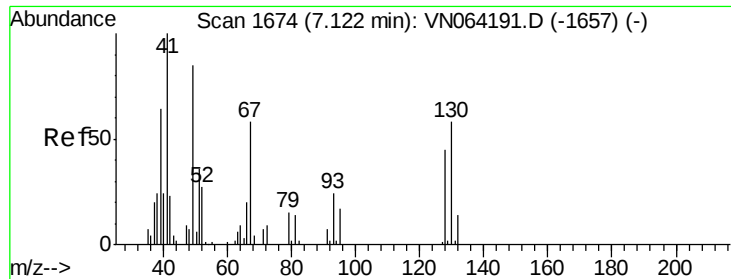
MMDadoda
10/23/2020 3:36:39 PM



#34
Benzene
Concen: 2.348 ug/l
RT: 8.00 min Scan# 1948
Delta R.T. 0.00 min
Lab File: VN064275.D
Acq: 23 Oct 2020 1:11

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.9	18.4	27.6
51	106.9	23.0	34.6#





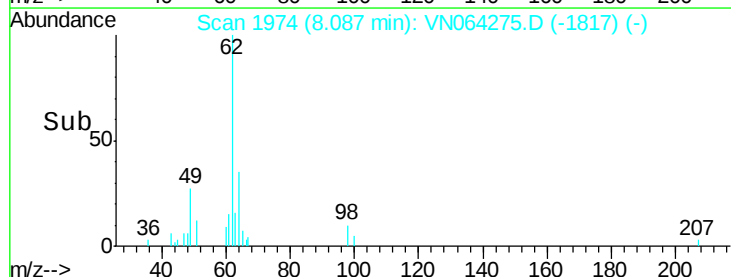
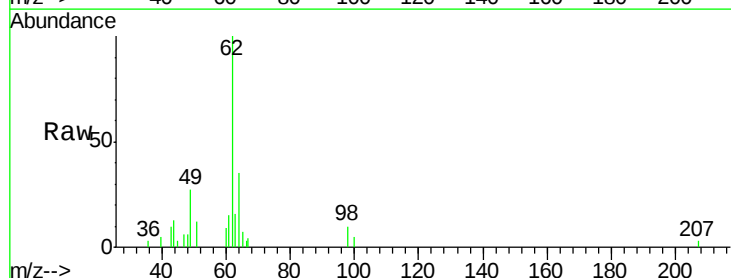
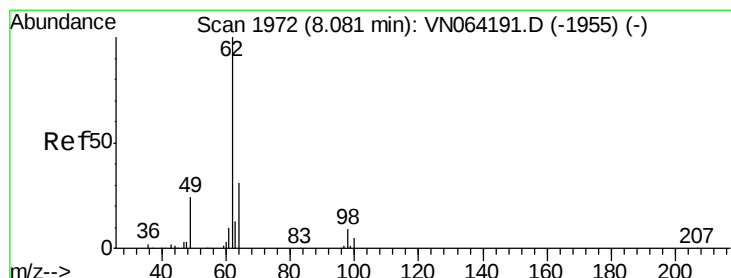
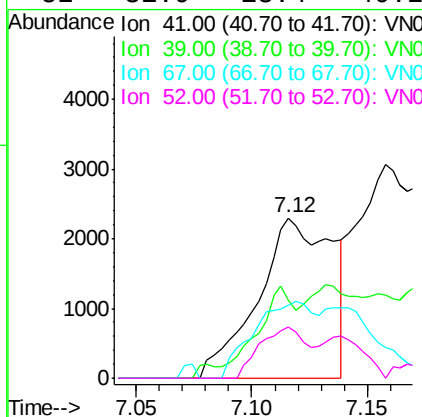
#35
Methacrylonitrile
Concen: 2.573 ug/l m
RT: 7.12 min Scan# 1672
Delta R.T. -0.01 min
Lab File: VN064275.D
Acq: 23 Oct 2020 1:11

Tot Ion:	41	Resp:	5131
Ion Ratio	Lower	Upper	
41	100		
39	48.7	32.1	96.3
67	45.3	28.9	86.8
52	31.9	13.4	40.2

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2020

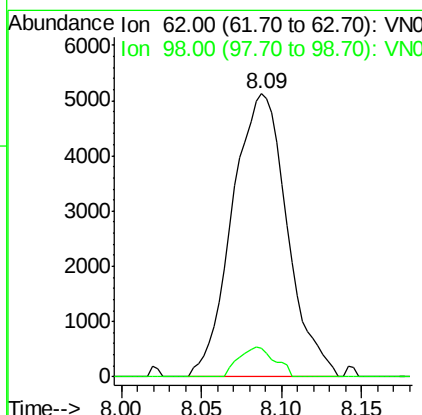
Manual Integrations
APPROVED

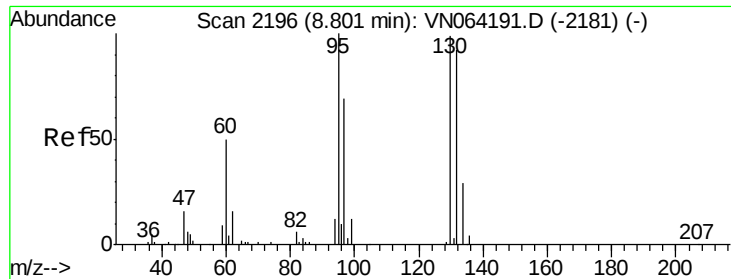
MMDadoda
10/23/2020 3:36:39 PM



#36
1,2-Dichloroethane
Concen: 2.428 ug/l
RT: 8.09 min Scan# 1974
Delta R.T. 0.01 min
Lab File: VN064275.D
Acq: 23 Oct 2020 1:11

Tgt Ion:	62	Resp:	12059
Ion Ratio	Lower	Upper	
62	100		
98	6.0	6.3	9.5#





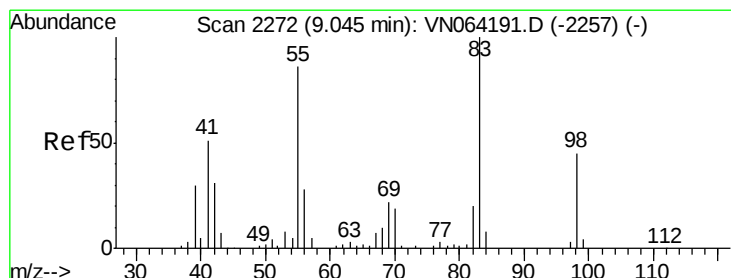
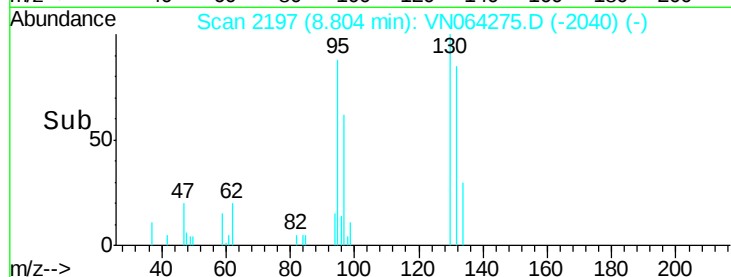
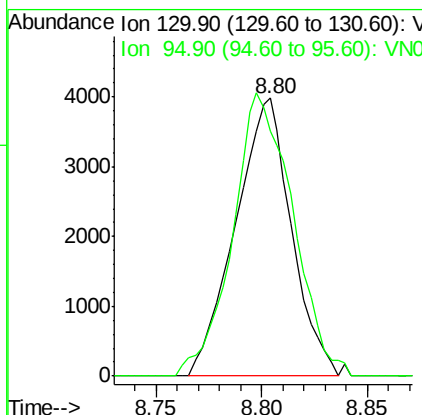
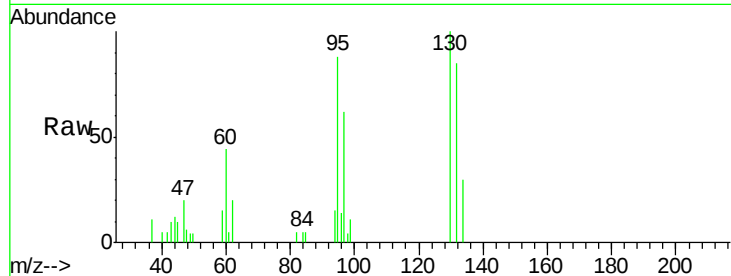
#37
 Trichloroethene
 Concen: 2.174 ug/l
 RT: 8.80 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VN064275.D
 Acq: 23 Oct 2020 1:11

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2020

Tot Ion:130 Resp: 7349
 Ion Ratio Lower Upper
 130 100
 95 82.5 81.0 121.4

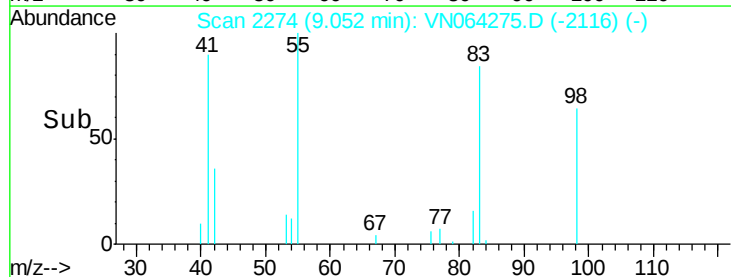
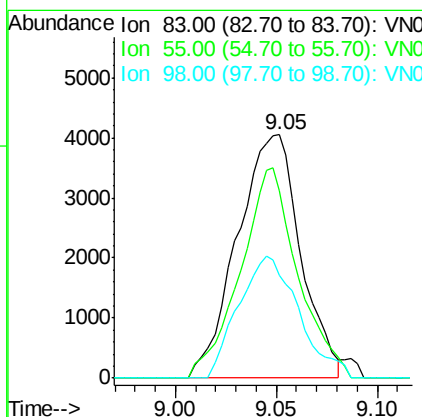
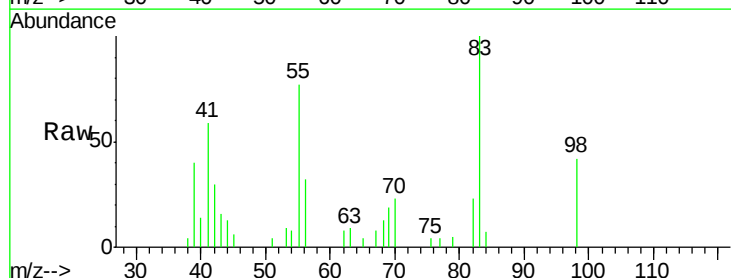
Manual Integrations
 APPROVED

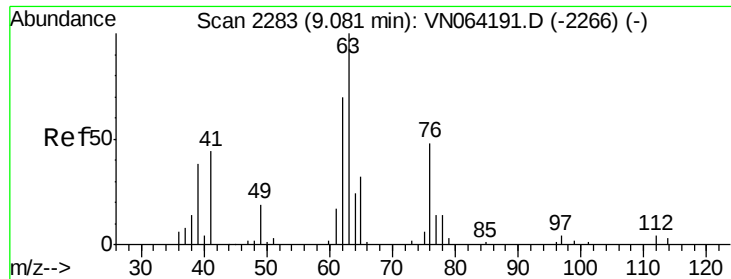
MMDadoda
 10/23/2020 3:36:39 PM



#38
 Methylcyclohexane
 Concen: 2.106 ug/l
 RT: 9.05 min Scan# 2274
 Delta R.T. 0.01 min
 Lab File: VN064275.D
 Acq: 23 Oct 2020 1:11

Tgt Ion: 83 Resp: 8880
 Ion Ratio Lower Upper
 83 100
 55 78.1 40.3 120.9
 98 47.8 22.4 67.0





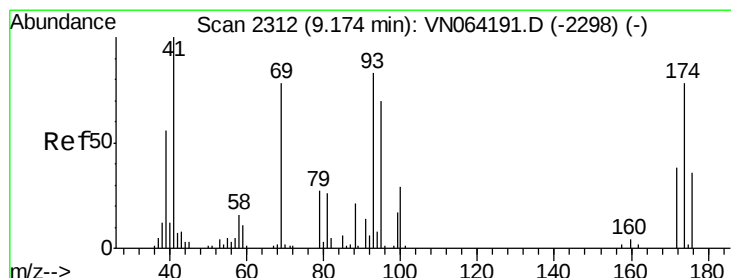
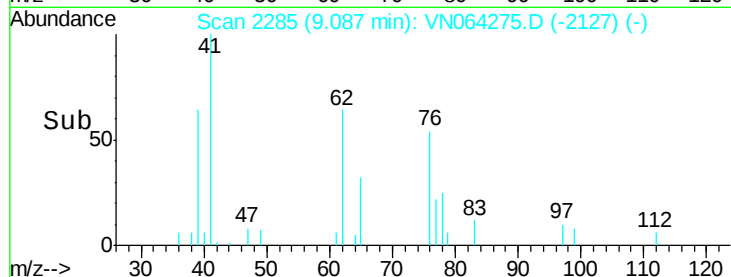
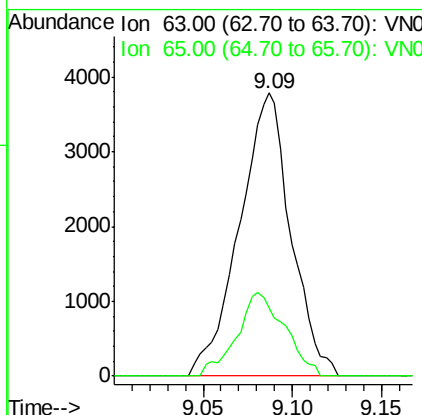
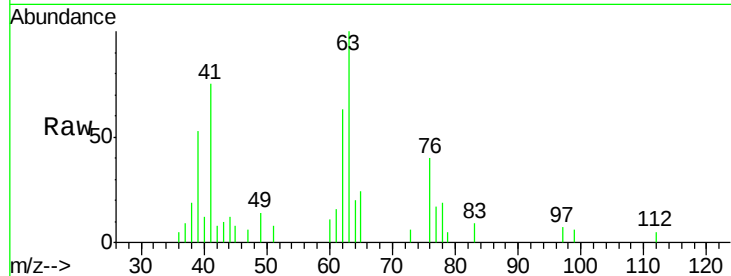
#39
 1,2-Dichloropropane
 Concen: 2.324 ug/l
 RT: 9.09 min Scan# 2285
 Delta R.T. 0.01 min
 Lab File: VN064275.D
 Acq: 23 Oct 2020 1:11

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2020

Tot Ion: 63 Resp: 7614
 Ion Ratio Lower Upper
 63 100
 65 24.1 26.5 39.7#

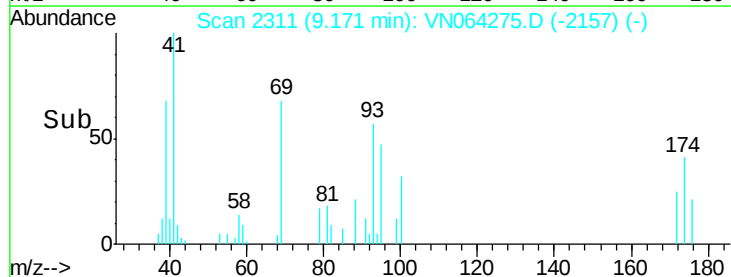
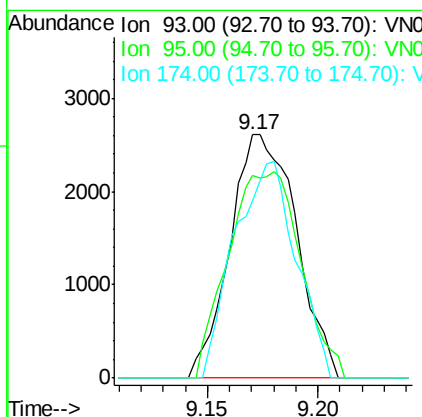
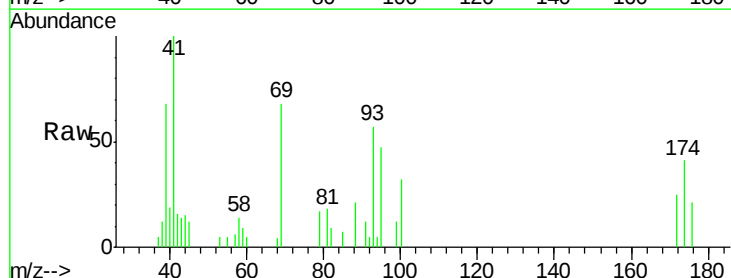
Manual Integrations
 APPROVED

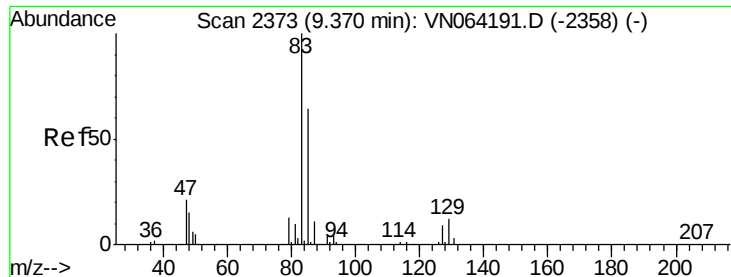
MMDadoda
 10/23/2020 3:36:39 PM



#40
 Dibromomethane
 Concen: 2.391 ug/l
 RT: 9.17 min Scan# 2311
 Delta R.T. -0.00 min
 Lab File: VN064275.D
 Acq: 23 Oct 2020 1:11

Tgt Ion: 93 Resp: 5451
 Ion Ratio Lower Upper
 93 100
 95 44.9 0.0 169.2
 174 82.8 0.0 187.4





#41

Bromodichloromethane

Concen: 2.239 ug/l

RT: 9.37 min Scan# 2374

Delta R.T. 0.00 min

Lab File: VN064275.D

Acq: 23 Oct 2020 1:11

Instrument :

MSVOA_N

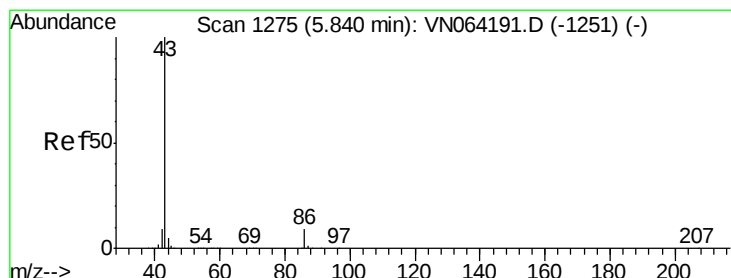
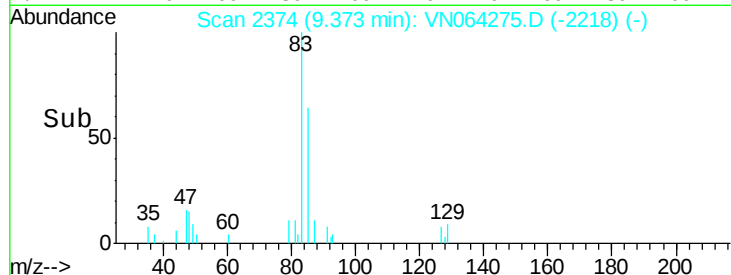
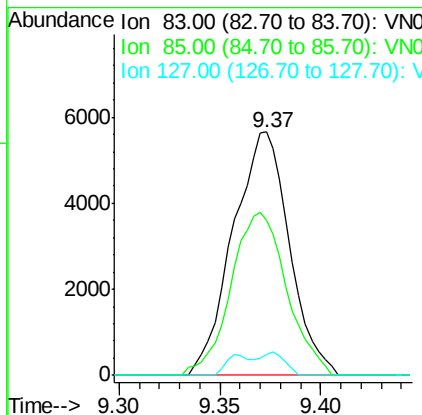
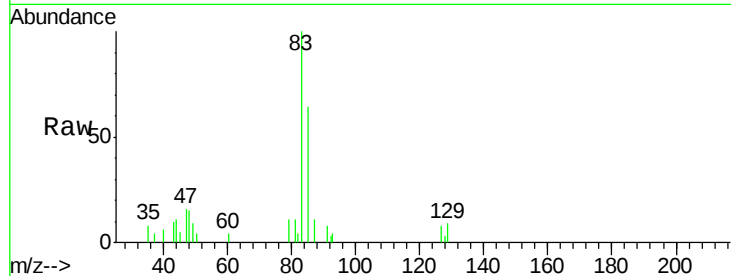
ClientSampleId :

LOD-MDL-WATER-01-QT4-2020

Tot Ion:	83	Resp:	11045
Ion Ratio	Lower	Upper	
83	100		
85	63.8	51.5	77.3
127	8.4	6.8	10.2

Manual Integrations
APPROVED

MMDadoda
10/23/2020 3:36:39 PM



#42

Vinyl Acetate

Concen: 11.051 ug/l

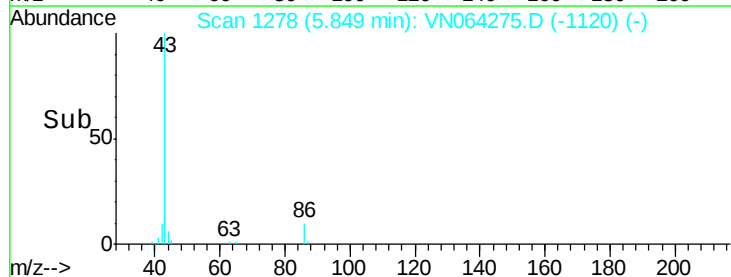
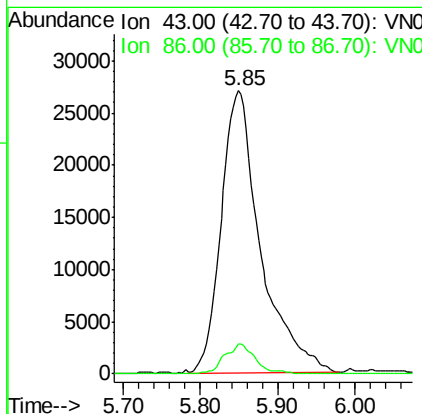
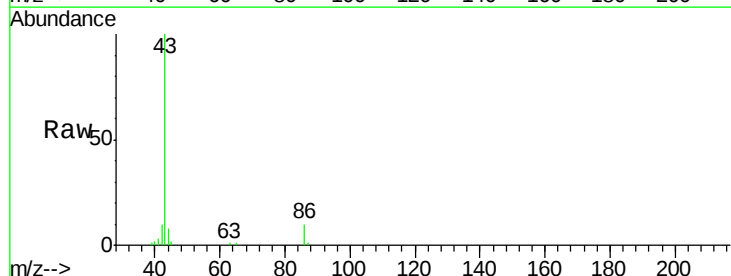
RT: 5.85 min Scan# 1278

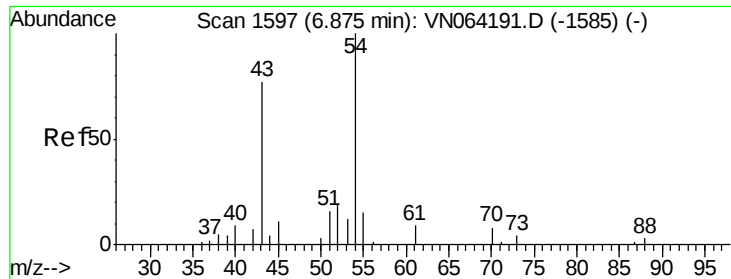
Delta R.T. 0.01 min

Lab File: VN064275.D

Acq: 23 Oct 2020 1:11

Tgt Ion:	43	Resp:	95395
Ion Ratio	Lower	Upper	
43	100		
86	8.0	6.7	10.1





#43

Ethyl Acetate

Concen: 2.489 ug/l m

RT: 6.88 min Scan# 1599

Delta R.T. 0.01 min

Lab File: VN064275.D

Acq: 23 Oct 2020 1:11

Tot Ion: 43 Resp: 9883

Ion Ratio Lower Upper

43 100

45 13.2 9.8 14.8

Instrument :

MSVOA_N

ClientSampleId :

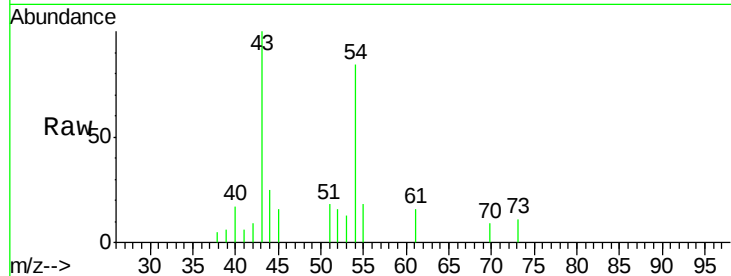
LOD-MDL-WATER-01-QT4-2020

Manual Integrations

APPROVED

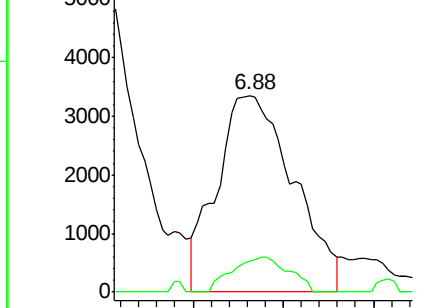
MMDadoda

10/23/2020 3:36:39 PM

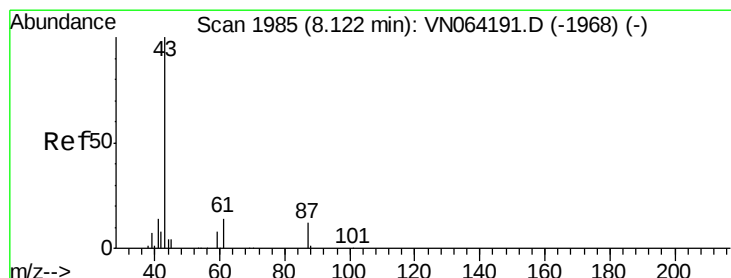
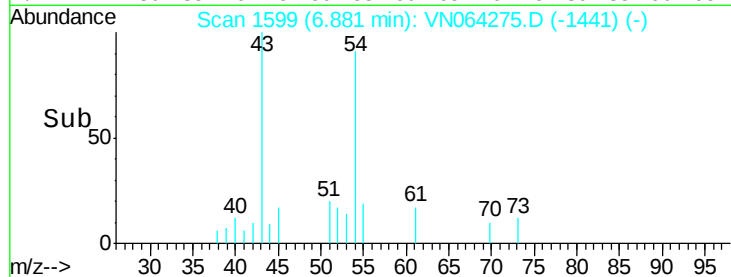


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 45.00 (44.70 to 45.70): VN0



Time-->



#44

Isopropyl Acetate

Concen: 2.446 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.01 min

Lab File: VN064275.D

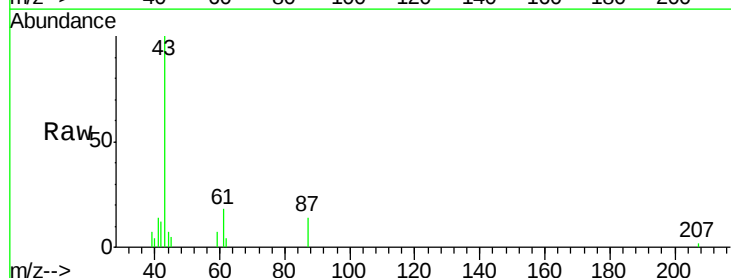
Acq: 23 Oct 2020 1:11

Tgt Ion: 43 Resp: 18651

Ion Ratio Lower Upper

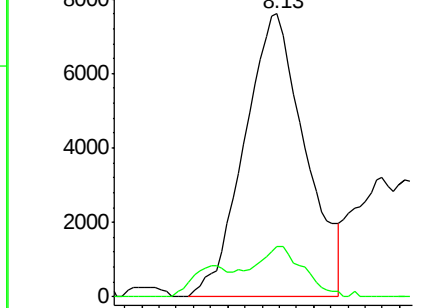
43 100

61 10.6 18.7 28.1#

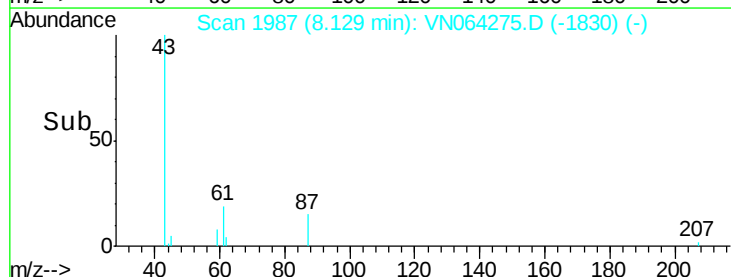


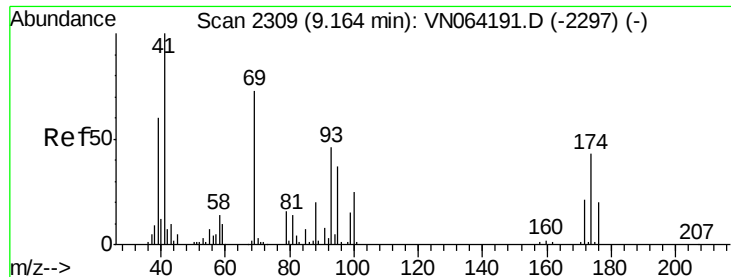
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



Time-->





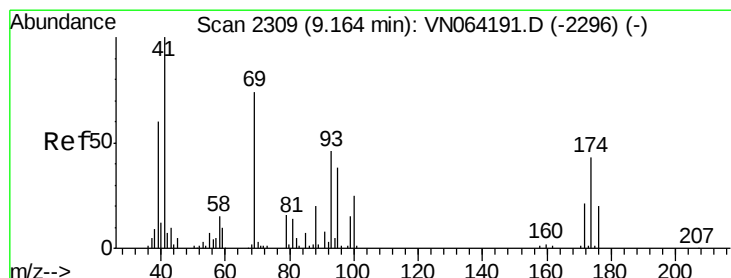
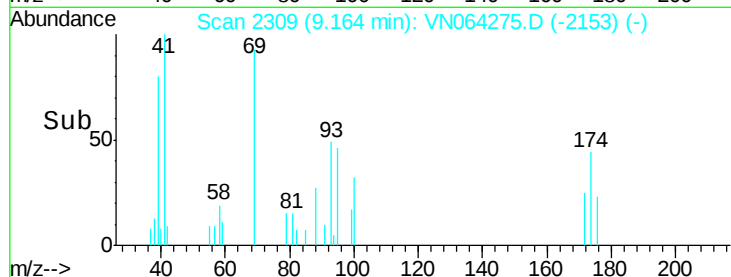
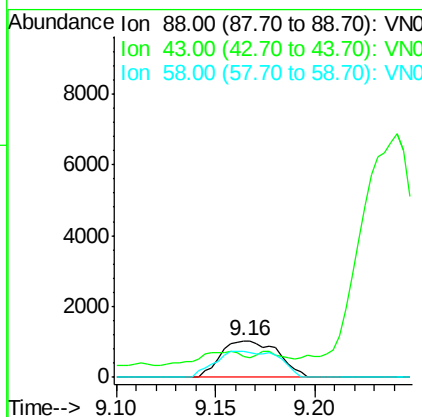
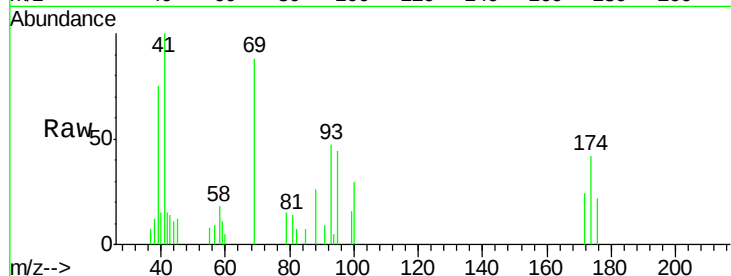
#45
1,4-Dioxane
Concen: 45.976 ug/l m
RT: 9.16 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN064275.D
Acq: 23 Oct 2020 1:11

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2020

Tot Ion	Ratio	Lower	Upper
88	100		
43	32.5	37.0	55.4#
58	51.9	62.4	93.6#

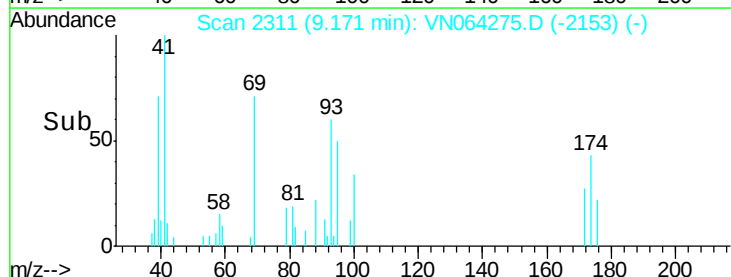
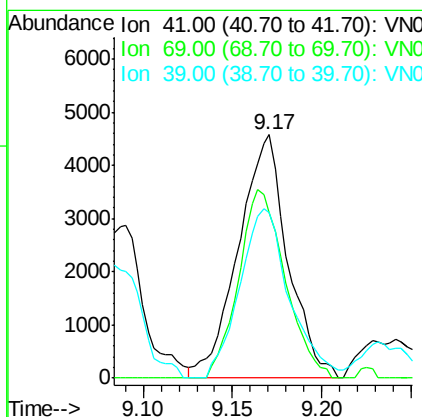
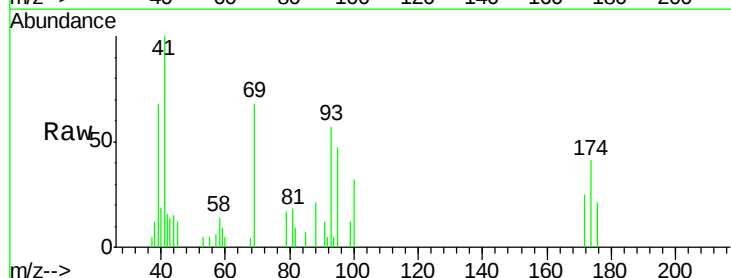
Manual Integrations
APPROVED

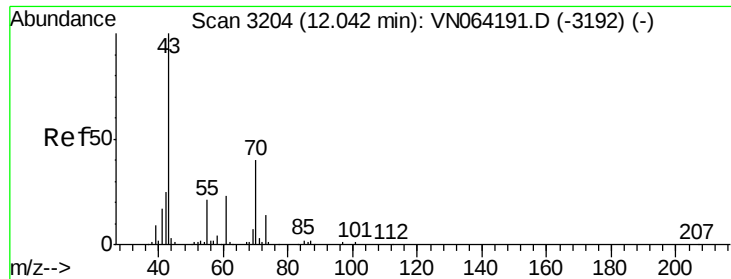
MMDadoda
10/23/2020 3:36:39 PM



#46
Methyl methacrylate
Concen: 2.445 ug/l
RT: 9.17 min Scan# 2311
Delta R.T. 0.01 min
Lab File: VN064275.D
Acq: 23 Oct 2020 1:11

Tgt Ion	Ratio	Lower	Upper
41	100		
69	68.1	36.8	110.4
39	68.2	30.4	91.2





#47

n-amvl Acetate

Concen: 1.678 ug/l

RT: 12.05 min Scan# 3205

Delta R.T. 0.00 min

Lab File: VN064275.D

Acq: 23 Oct 2020 1:11

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2020

Tot Ion: 43 Resp: 11346

Ion Ratio Lower Upper

43 100

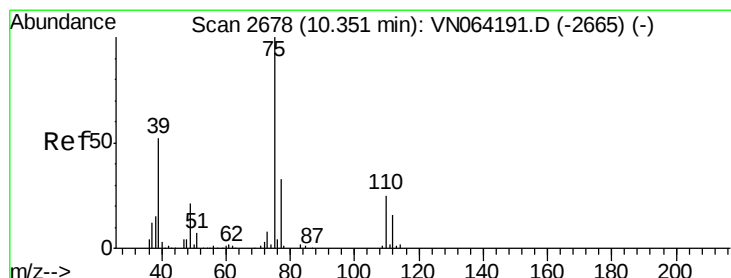
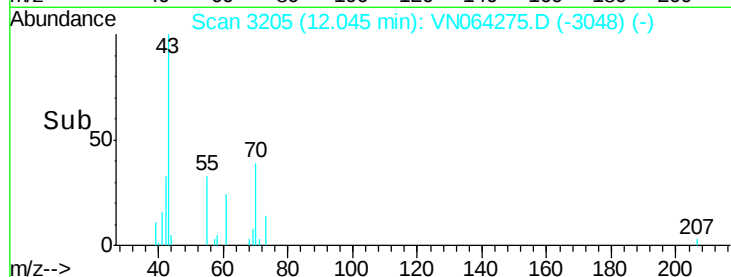
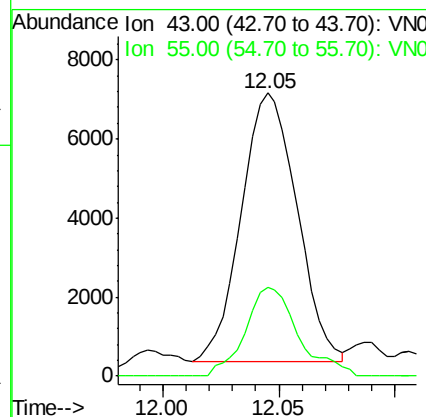
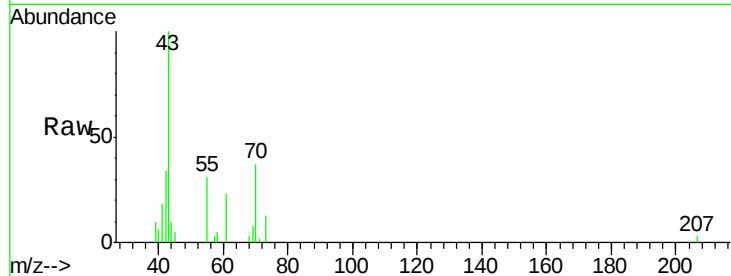
55 29.3 17.6 26.4#

Manual Integrations

APPROVED

MMDadoda

10/23/2020 3:36:39 PM



#48

t-1,3-Dichloropropene

Concen: 2.075 ug/l

RT: 10.35 min Scan# 2678

Delta R.T. -0.00 min

Lab File: VN064275.D

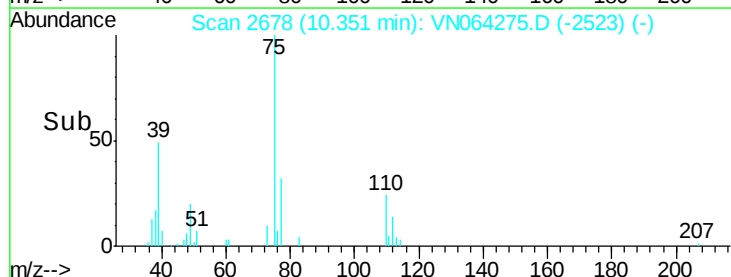
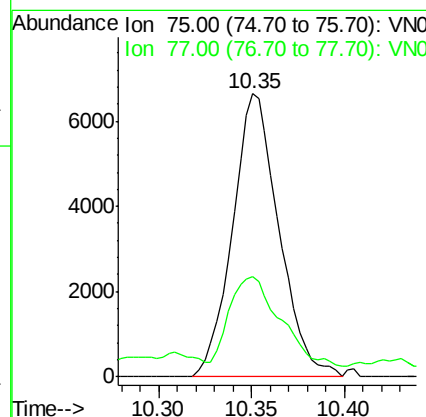
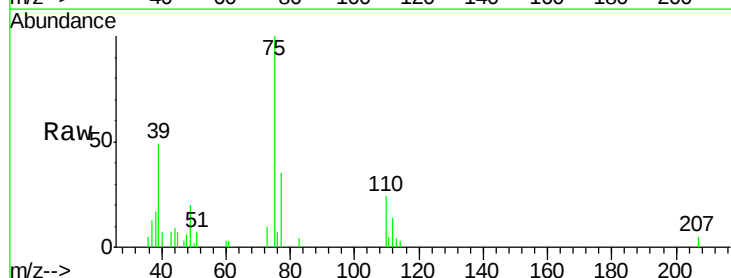
Acq: 23 Oct 2020 1:11

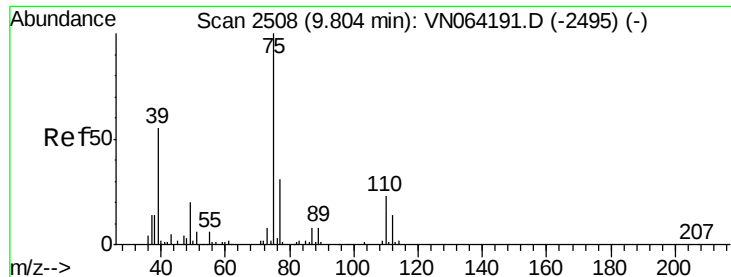
Tgt Ion: 75 Resp: 11546

Ion Ratio Lower Upper

75 100

77 31.4 27.4 41.2





#49

cis-1,3-Dichloropropene

Concen: 2.010 ug/l

RT: 9.81 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN064275.D

Acq: 23 Oct 2020 1:11

Instrument :

MSVOA_N

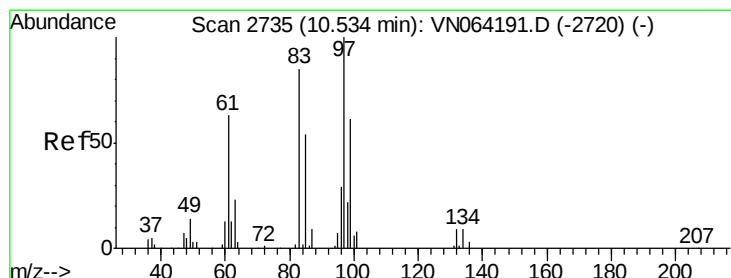
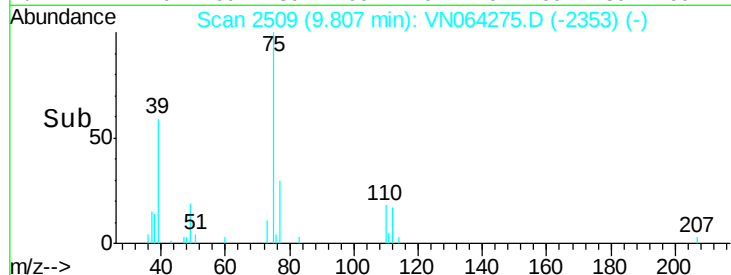
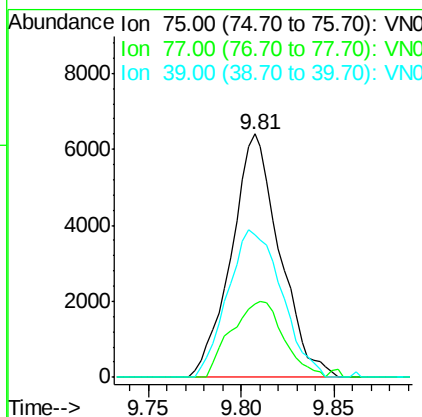
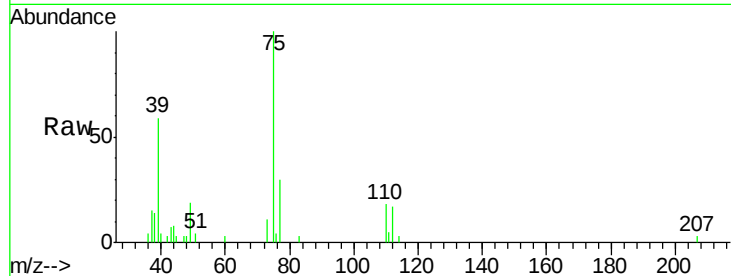
ClientSampleId :

LOD-MDL-WATER-01-QT4-2020

Tot Ion:	75	Resp:	11559
Ion	Ratio	Lower	Upper
75	100		
77	30.0	24.5	36.7
39	58.6	43.8	65.8

Manual Integrations
APPROVED

MMDadoda
10/23/2020 3:36:39 PM



#50

1,1,2-Trichloroethane

Concen: 2.174 ug/l

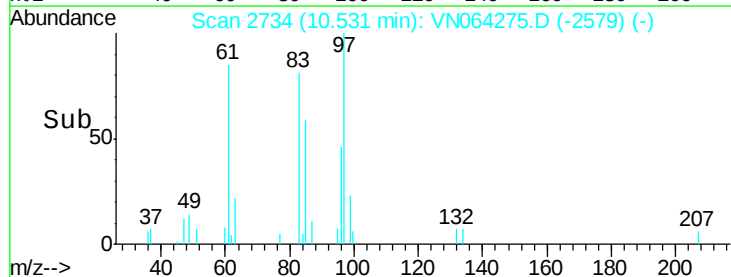
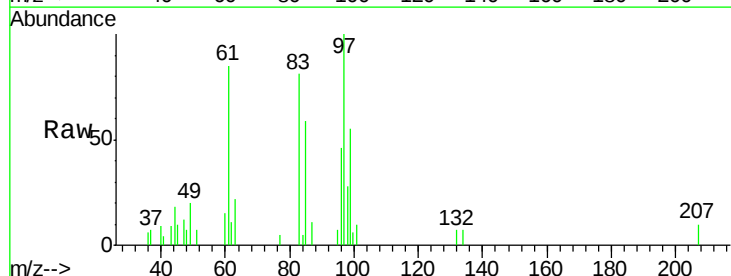
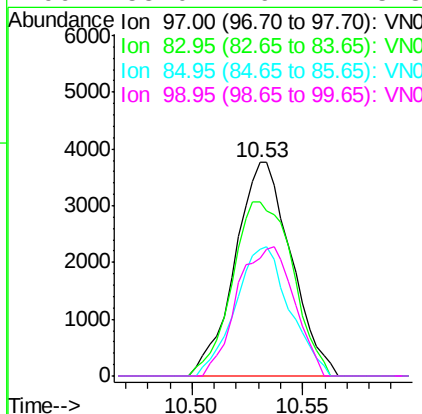
RT: 10.53 min Scan# 2734

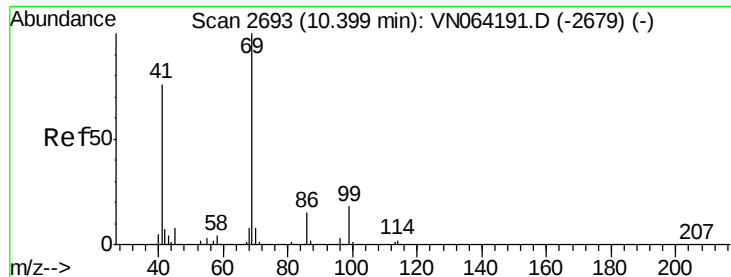
Delta R.T. -0.00 min

Lab File: VN064275.D

Acq: 23 Oct 2020 1:11

Tgt Ion:	97	Resp:	6639
Ion	Ratio	Lower	Upper
97	100		
83	81.2	67.7	101.5
85	59.4	43.2	64.8
99	55.0	49.2	73.8





#51

Ethyl methacrylate

Concen: 2.090 ug/l

RT: 10.40 min Scan# 2693

Delta R.T. -0.00 min

Lab File: VN064275.D

Acq: 23 Oct 2020 1:11

Instrument :

MSVOA_N

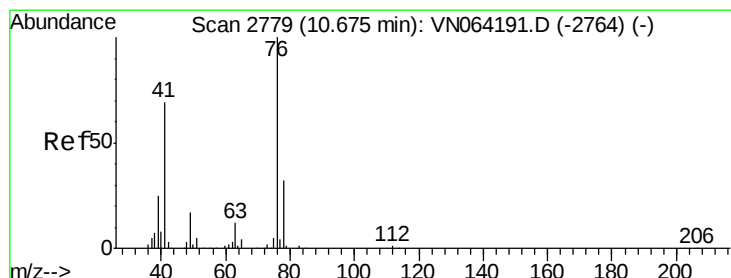
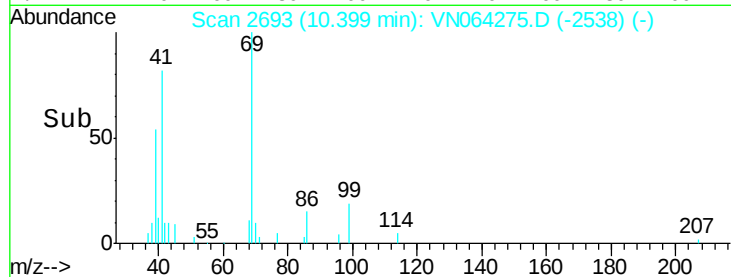
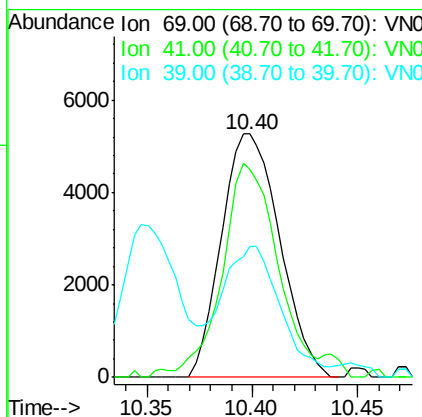
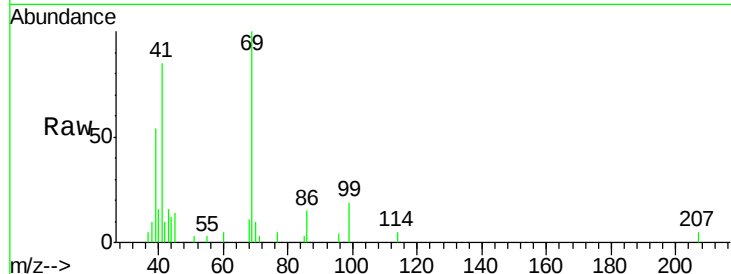
ClientSampleId :

LOD-MDL-WATER-01-QT4-2020

Tot Ion:	69	Resp:	10094
Ion	Ratio	Lower	Upper
69	100		
41	78.2	38.0	114.1
39	48.8	21.4	64.3

Manual Integrations
APPROVED

MMDadoda
10/23/2020 3:36:39 PM



#52

1,3-Dichloropropane

Concen: 2.075 ug/l

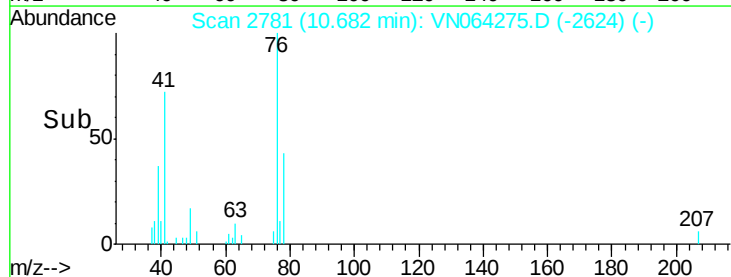
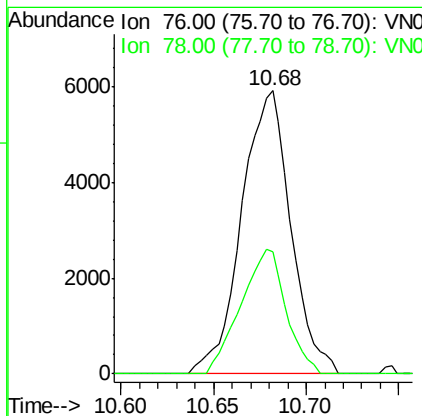
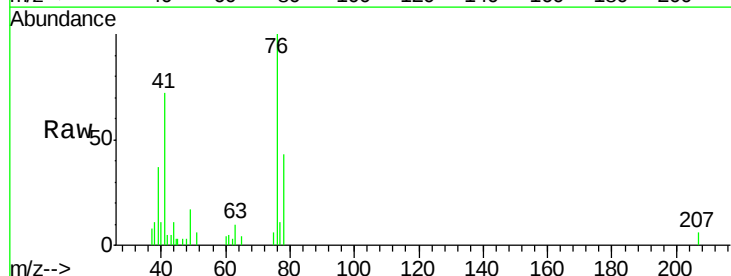
RT: 10.68 min Scan# 2781

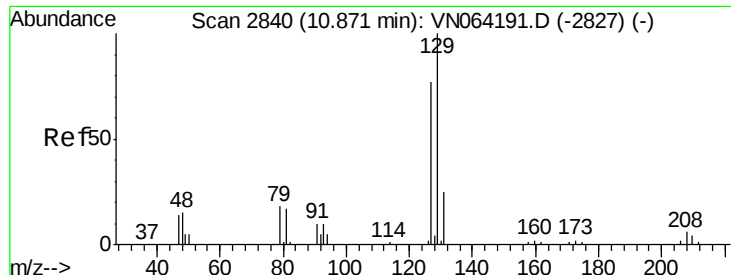
Delta R.T. 0.01 min

Lab File: VN064275.D

Acq: 23 Oct 2020 1:11

Tgt Ion:	76	Resp:	10928
Ion	Ratio	Lower	Upper
76	100		
78	40.4	0.0	64.4





#53

Dibromochloromethane

Concen: 2.092 ug/l

RT: 10.87 min Scan# 2840

Delta R.T. -0.00 min

Lab File: VN064275.D

Acq: 23 Oct 2020 1:11

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2020

Tot Ion:129 Resp: 8043

Ion Ratio Lower Upper

129 100

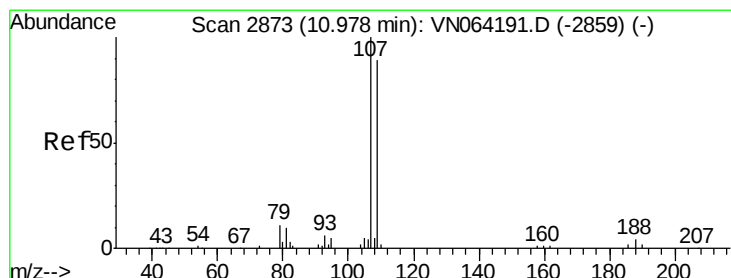
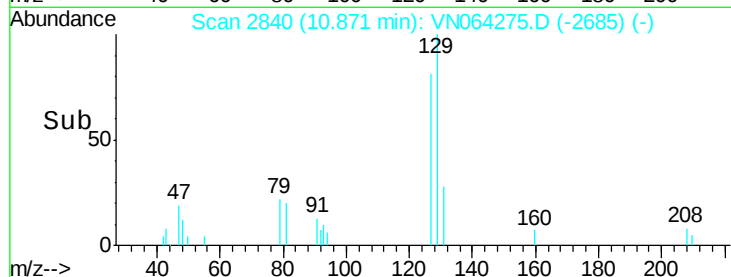
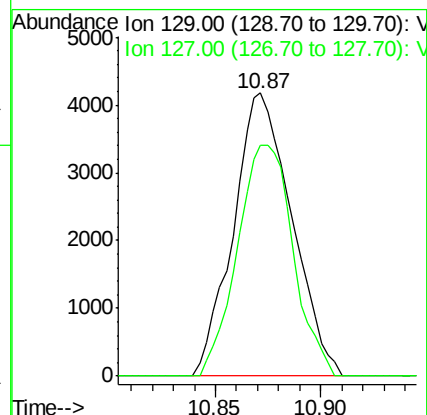
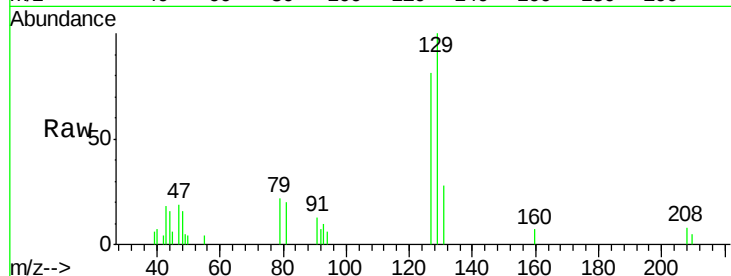
127 77.7 39.0 117.0

Manual Integrations

APPROVED

MMDadoda

10/23/2020 3:36:39 PM



#54

1,2-Dibromoethane

Concen: 2.254 ug/l

RT: 10.98 min Scan# 2873

Delta R.T. -0.00 min

Lab File: VN064275.D

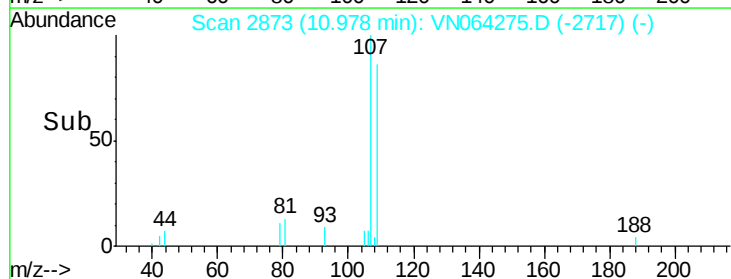
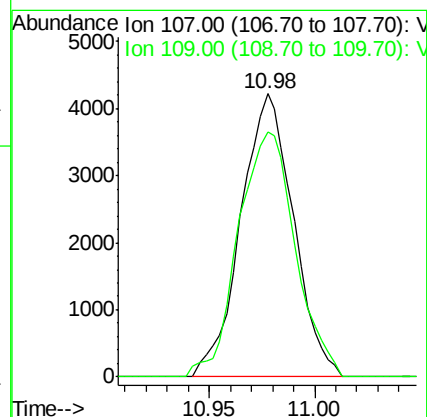
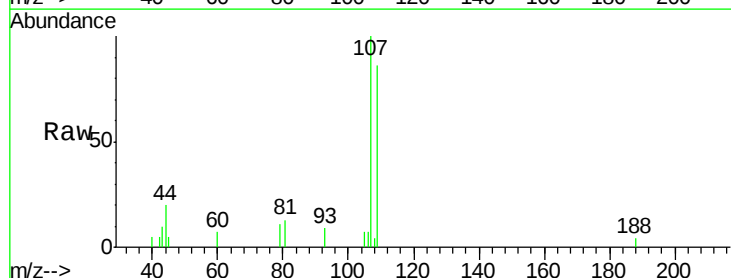
Acq: 23 Oct 2020 1:11

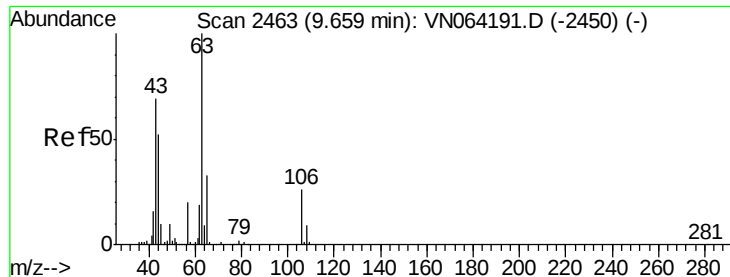
Tgt Ion:107 Resp: 7317

Ion Ratio Lower Upper

107 100

109 93.6 71.8 107.8





#55

2-Chloroethyl vinyl ether

Concen: 10.893 ug/l

RT: 9.66 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN064275.D

Acq: 23 Oct 2020 1:11

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2020

Tot Ion: 63 Resp: 25856

Ion Ratio Lower Upper

63 100

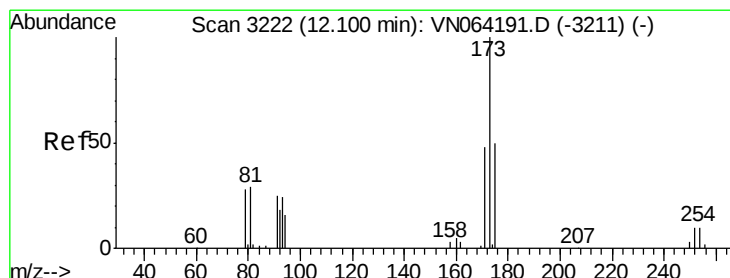
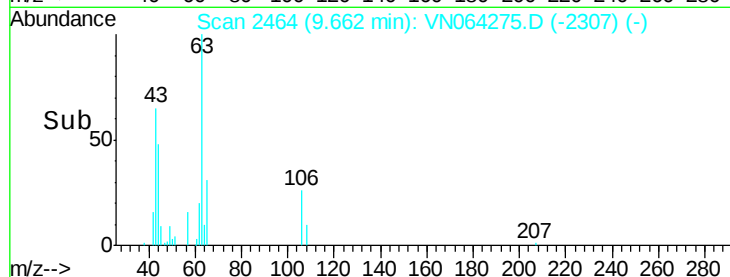
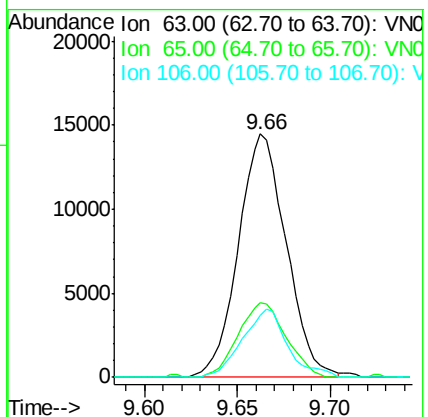
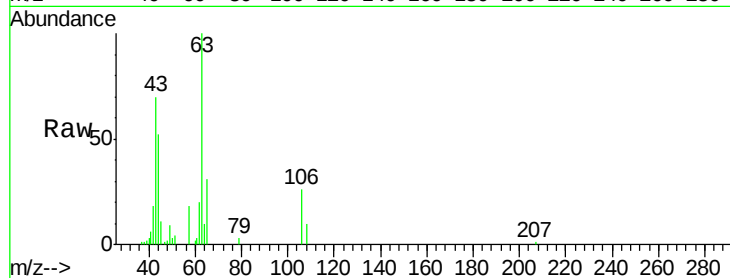
65 30.6 25.9 38.9

106 25.5 21.4 32.2

Manual Integrations
APPROVED

MMDadoda

10/23/2020 3:36:39 PM



#56

Bromoform

Concen: 1.670 ug/l

RT: 12.10 min Scan# 3222

Delta R.T. -0.00 min

Lab File: VN064275.D

Acq: 23 Oct 2020 1:11

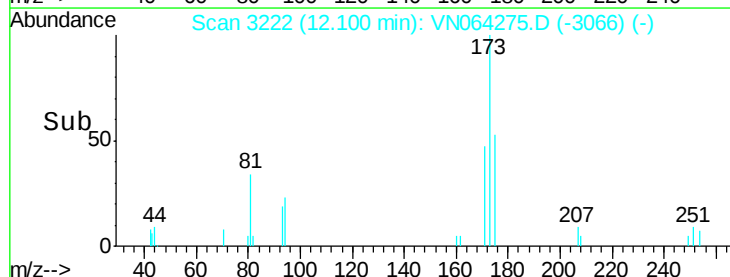
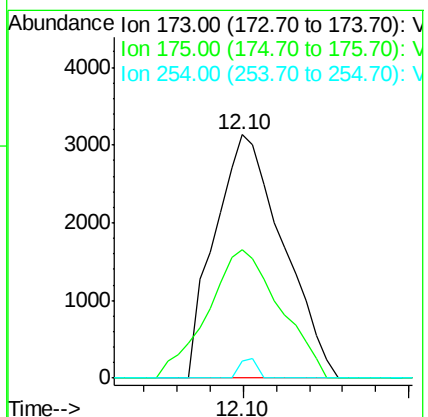
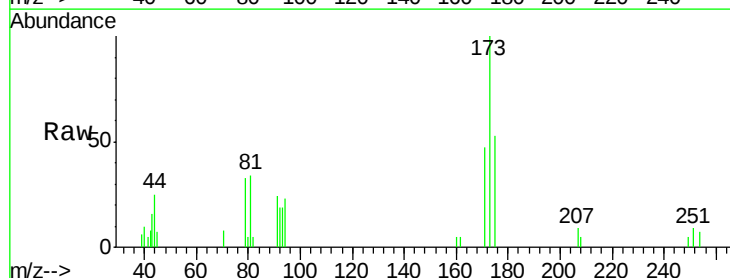
Tgt Ion: 173 Resp: 4471

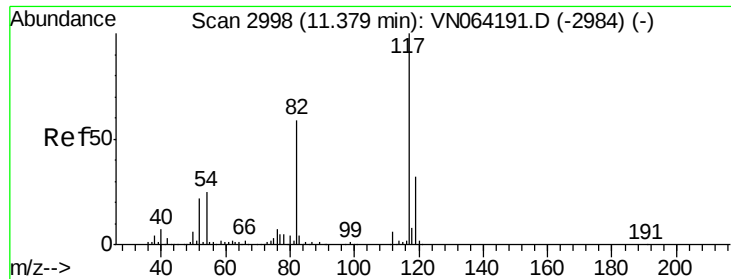
Ion Ratio Lower Upper

173 100

175 55.9 39.0 58.4

254 2.0 6.8 10.2#





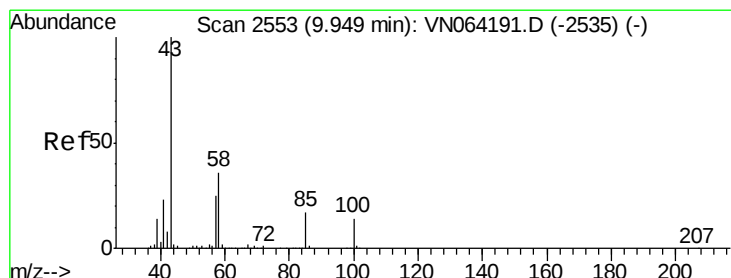
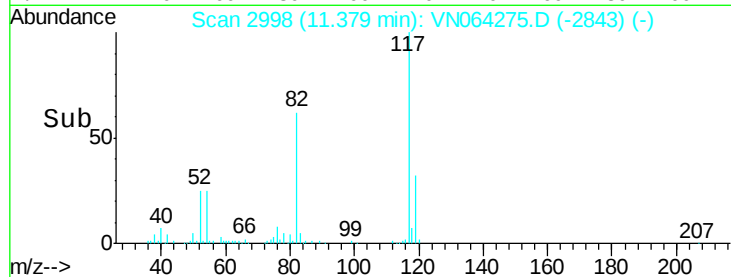
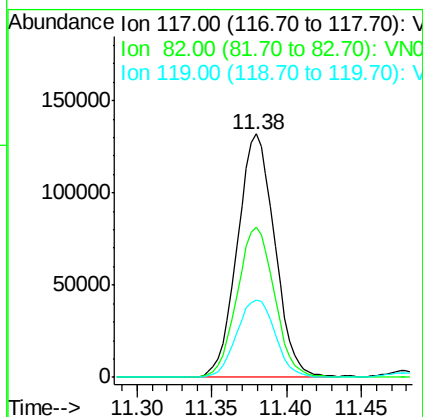
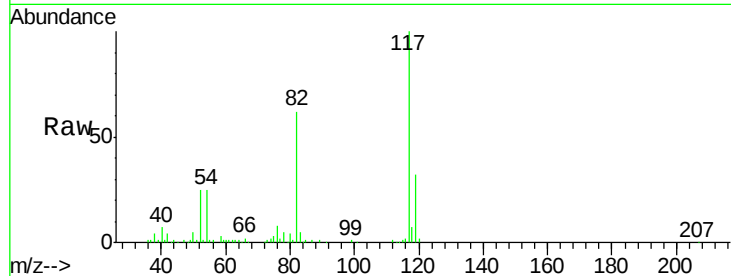
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN064275.D
Acq: 23 Oct 2020 1:11

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2020

Tot Ion	Ratio	Resp	Lower	Upper
117	100	229617		
82	61.6	47.8	71.8	
119	32.9	25.7	38.5	

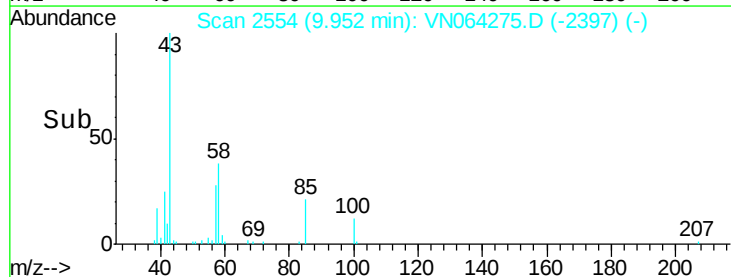
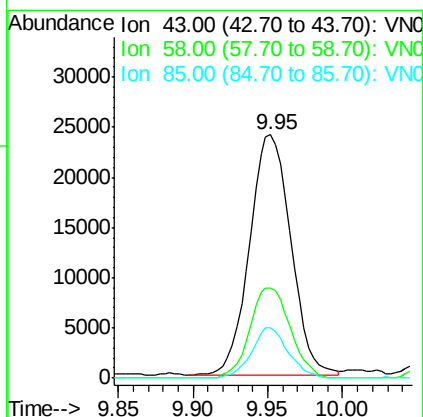
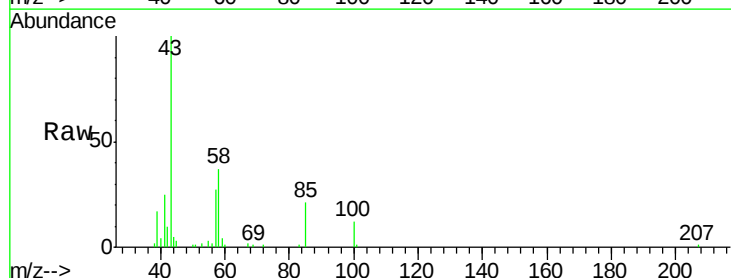
Manual Integrations
APPROVED

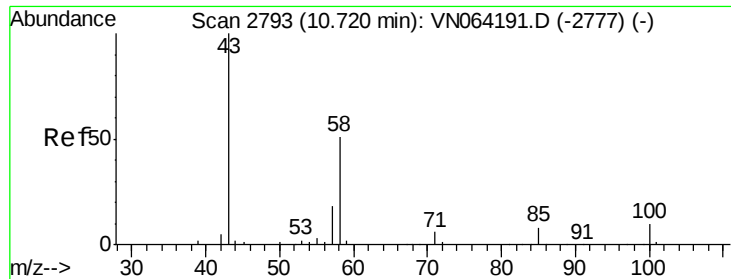
MMDadoda
10/23/2020 3:36:39 PM



#58
4-Methyl-2-Pentanone
Concen: 11.820 ug/l
RT: 9.95 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN064275.D
Acq: 23 Oct 2020 1:11

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	45992		
58	36.6	29.5	44.3	
85	18.6	13.7	20.5	





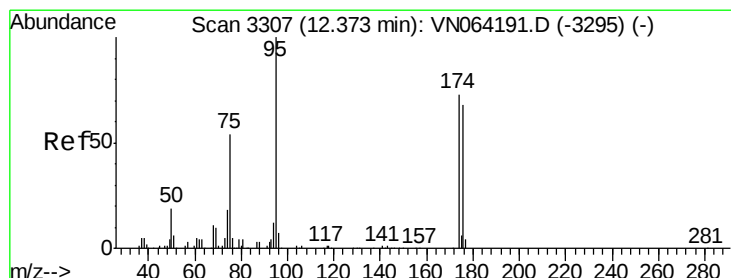
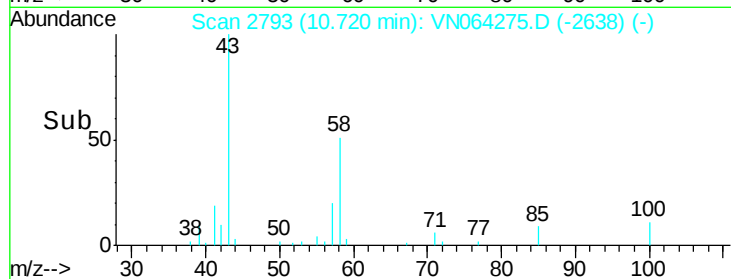
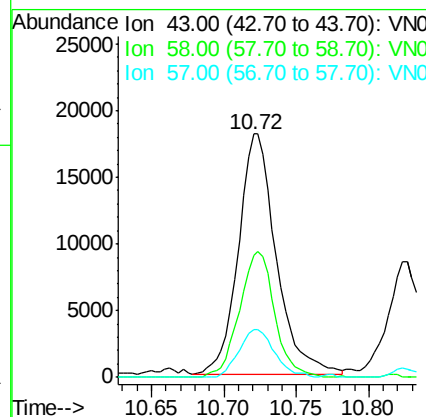
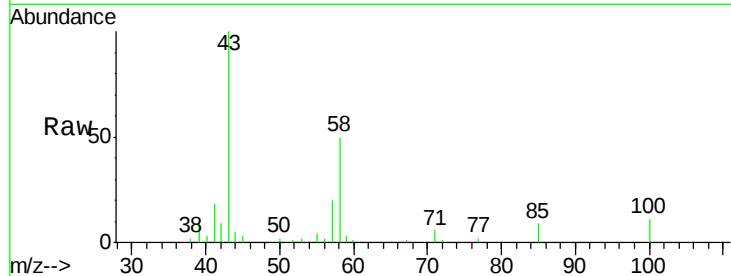
#59
2-Hexanone
Concen: 11.370 ug/l
RT: 10.72 min Scan# 2793
Delta R.T. -0.00 min
Lab File: VN064275.D
Acq: 23 Oct 2020 1:11

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2020

Tot Ion:	43	Resp:	32844
Ion Ratio	Lower	Upper	
43	100		
58	48.2	40.2	60.4
57	18.8	14.8	22.2

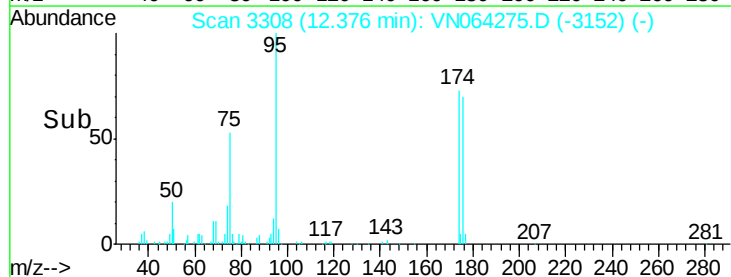
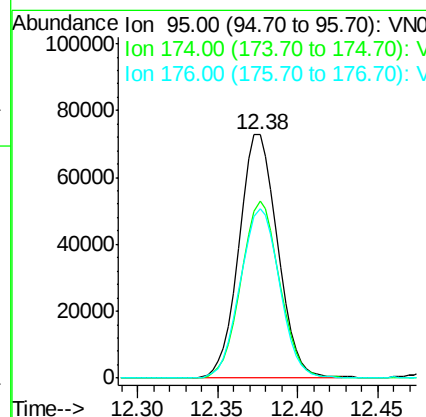
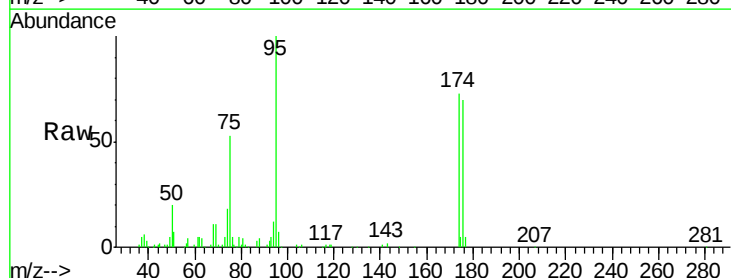
Manual Integrations
APPROVED

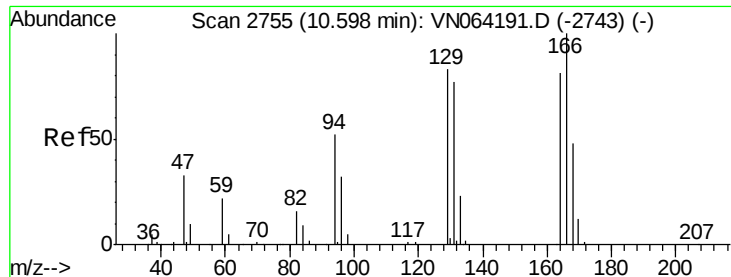
MMDadoda
10/23/2020 3:36:39 PM



#60
4-Bromofluorobenzene
Concen: 29.072 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064275.D
Acq: 23 Oct 2020 1:11

Tgt Ion:	95	Resp:	119627
Ion Ratio	Lower	Upper	
95	100		
174	73.0	57.6	86.4
176	71.1	54.9	82.3





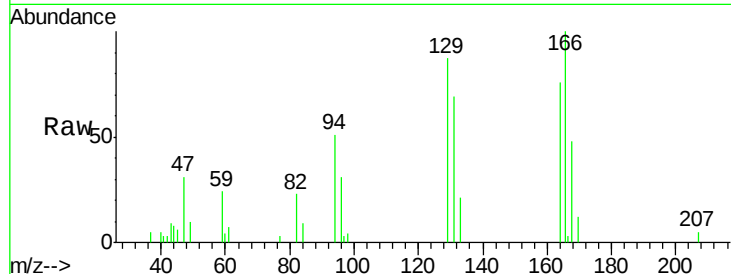
#61
Tetrachloroethene
Concen: 2.603 ug/l
RT: 10.60 min Scan# 2756
Delta R.T. 0.00 min
Lab File: VN064275.D
Acq: 23 Oct 2020 1:11

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2020

Tot Ion	Ratio	Lower	Upper
164	100		
166	131.6	99.2	148.8
129	115.0	82.8	124.2
131	91.0	76.2	114.4

Manual Integrations
APPROVED

MMDadoda
10/23/2020 3:36:39 PM

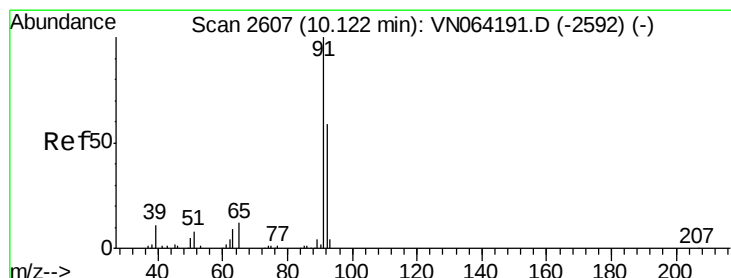
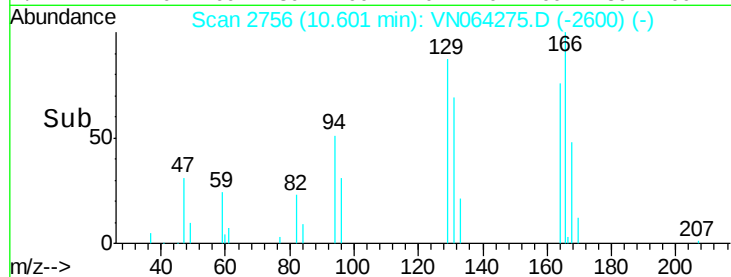
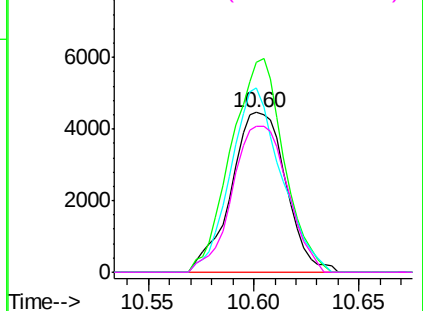


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

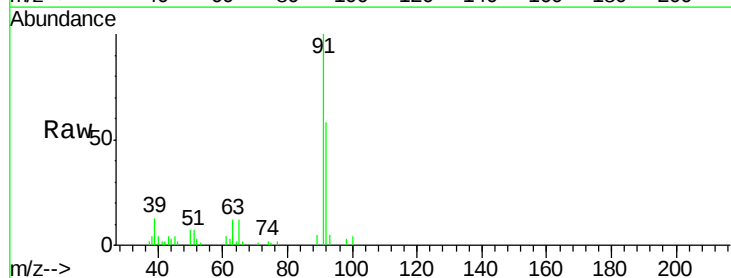
Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



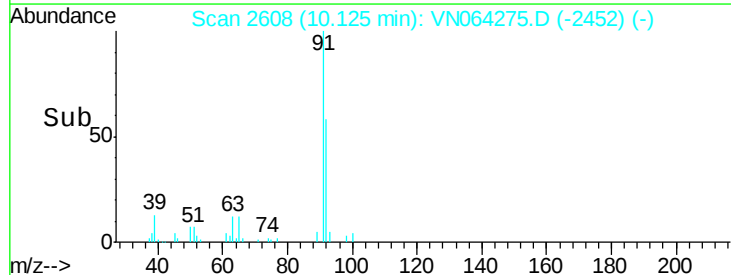
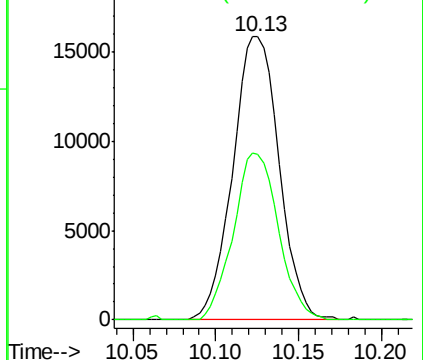
#62
Toluene
Concen: 2.346 ug/l
RT: 10.13 min Scan# 2608
Delta R.T. 0.00 min
Lab File: VN064275.D
Acq: 23 Oct 2020 1:11

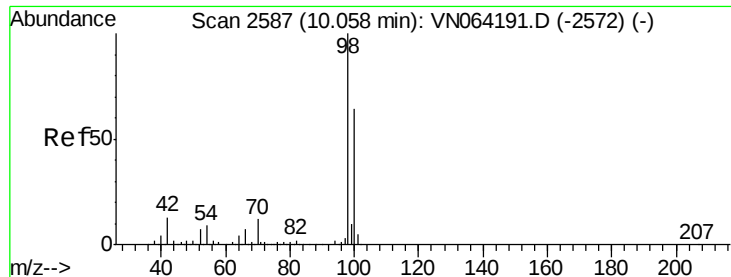
Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.1	46.8	70.2



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V





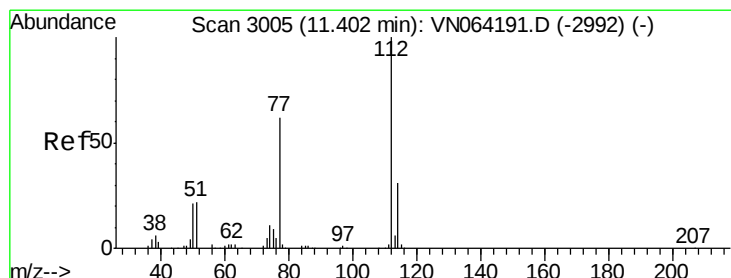
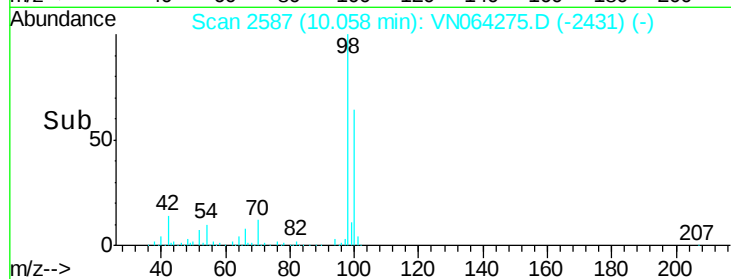
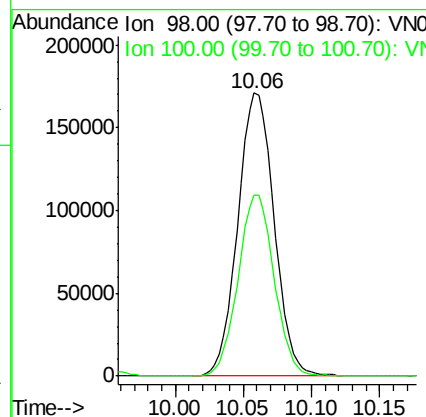
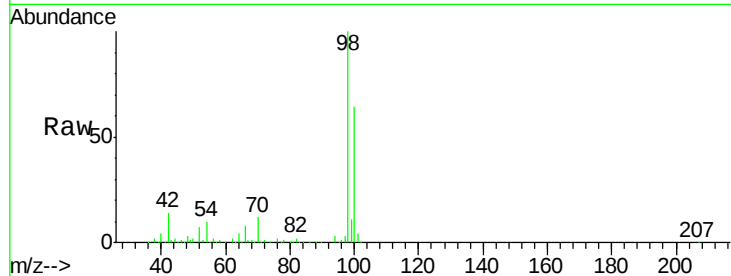
#63
Toluene-d8
Concen: 30.482 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN064275.D
Acq: 23 Oct 2020 1:11

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2020

Tot Ion: 98 Resp: 316879
Ion Ratio Lower Upper
98 100
100 63.3 51.4 77.2

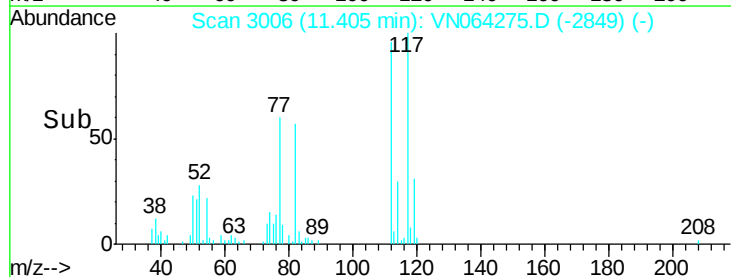
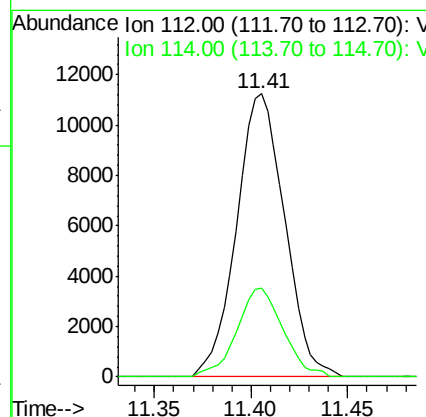
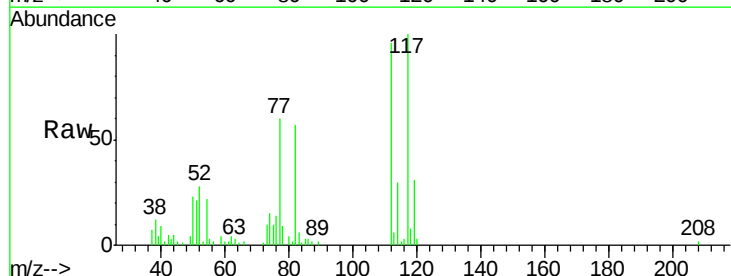
Manual Integrations
APPROVED

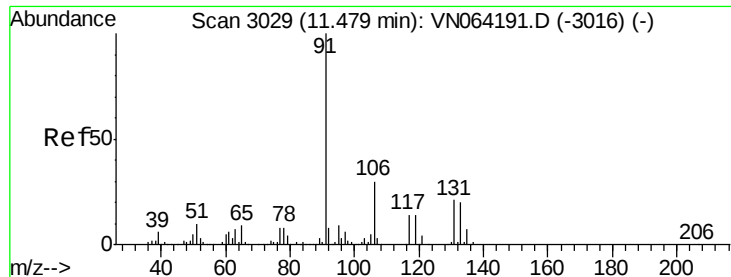
MMDadoda
10/23/2020 3:36:39 PM



#64
Chlorobenzene
Concen: 2.383 ug/l
RT: 11.41 min Scan# 3006
Delta R.T. 0.00 min
Lab File: VN064275.D
Acq: 23 Oct 2020 1:11

Tgt Ion: 112 Resp: 19477
Ion Ratio Lower Upper
112 100
114 31.2 25.1 37.7





#65

1,1,1,2-Tetrachloroethane

Concen: 2.375 ug/l

RT: 11.48 min Scan# 3029

Delta R.T. -0.00 min

Lab File: VN064275.D

Acq: 23 Oct 2020 1:11

Instrument :

MSVOA_N

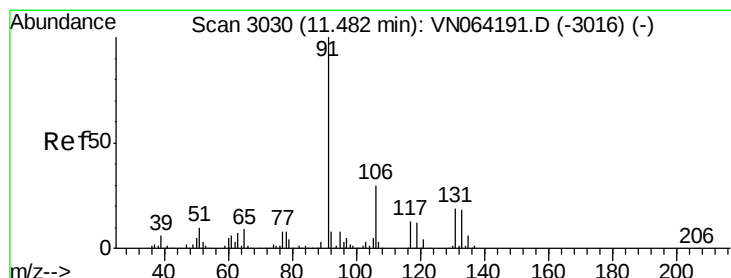
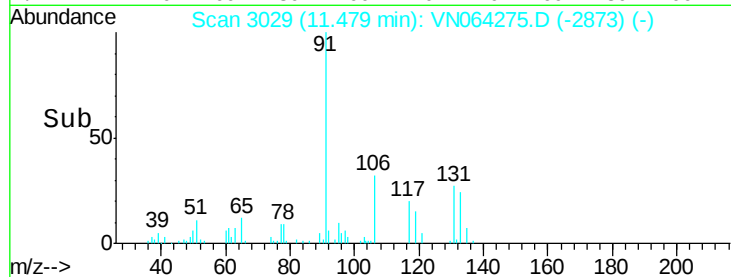
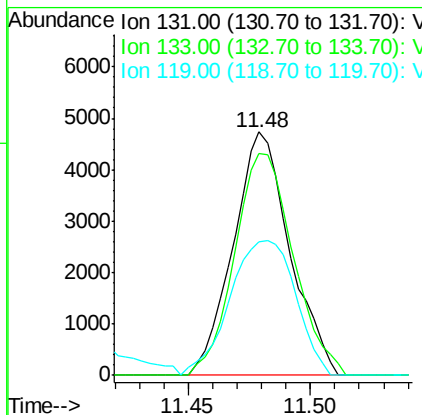
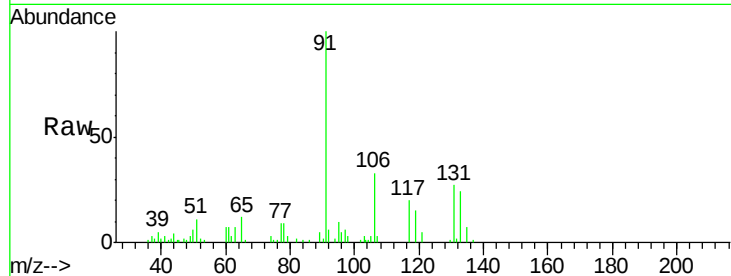
ClientSampleId :

LOD-MDL-WATER-01-QT4-2020

Tot Ion:	131	Resp:	7607
Ion Ratio	Lower	Upper	
131	100		
133	94.8	0.0	193.0
119	64.3	0.0	132.2

Manual Integrations
APPROVED

MMDadoda
10/23/2020 3:36:39 PM



#66

Ethyl Benzene

Concen: 2.215 ug/l

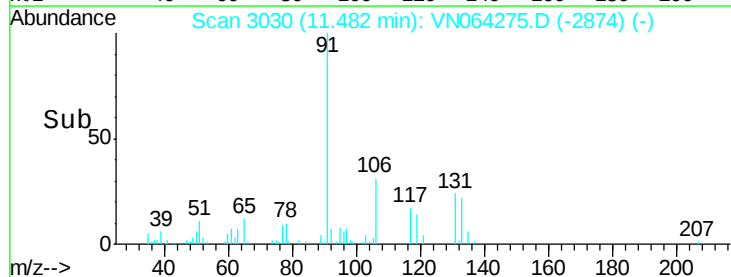
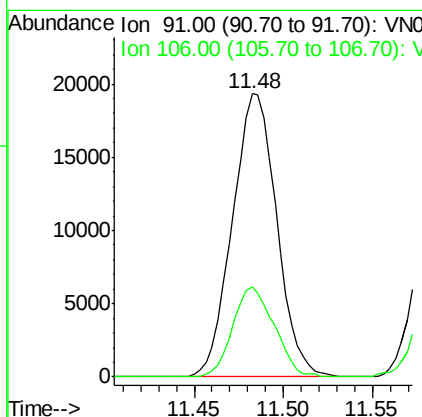
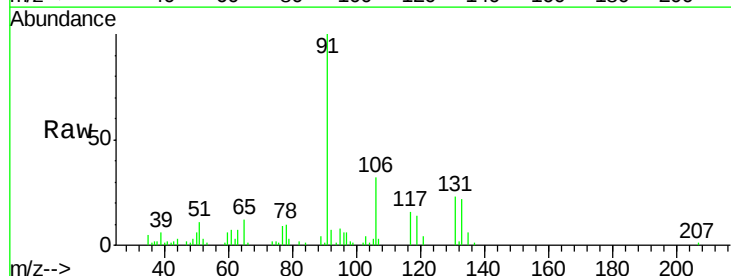
RT: 11.48 min Scan# 3030

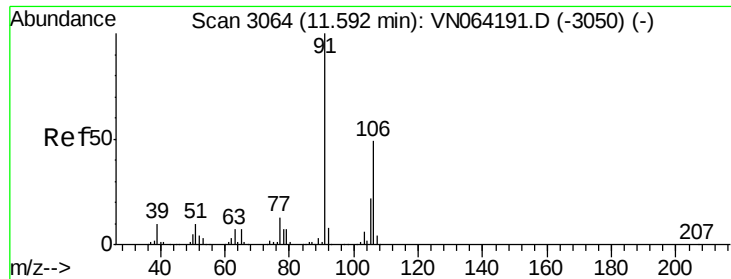
Delta R.T. -0.00 min

Lab File: VN064275.D

Acq: 23 Oct 2020 1:11

Tgt Ion:	91	Resp:	33436
Ion Ratio	Lower	Upper	
91	100		
106	31.9	23.9	35.9





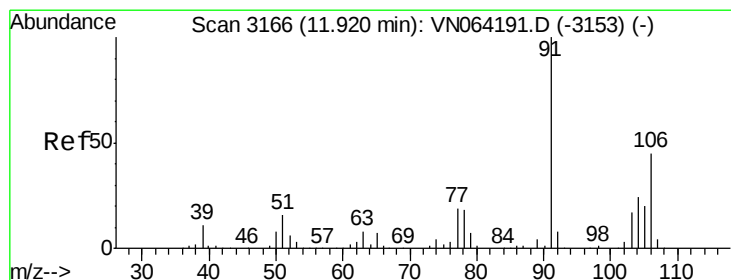
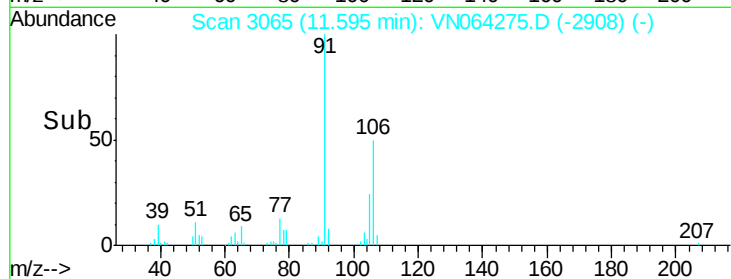
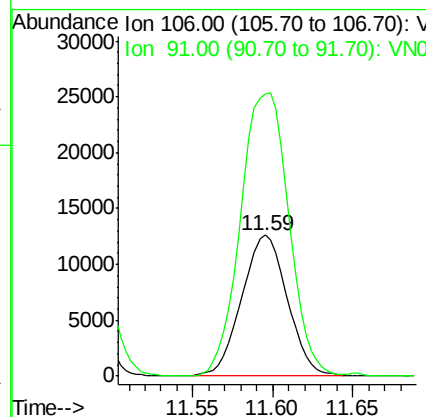
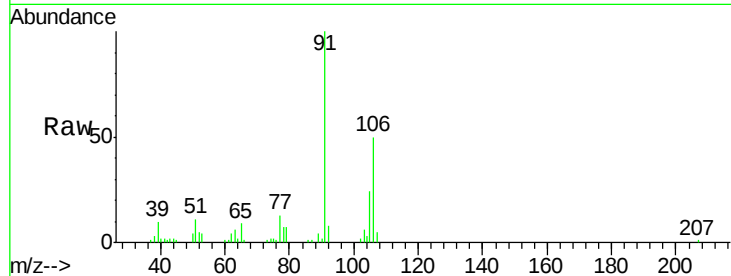
#67
m/p-Xylenes
Concen: 4.392 ug/l
RT: 11.59 min Scan# 3065
Delta R.T. 0.00 min
Lab File: VN064275.D
Acq: 23 Oct 2020 1:11

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2020

Tot Ion:106 Resp: 24654
Ion Ratio Lower Upper
106 100
91 212.1 167.9 251.9

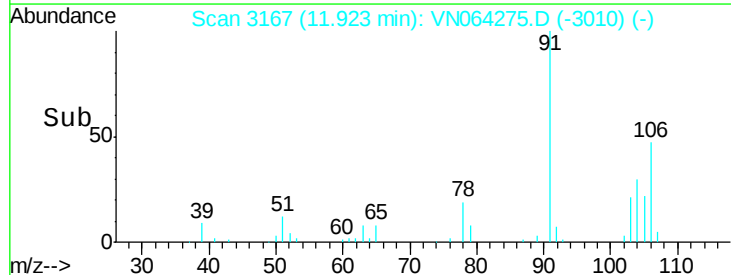
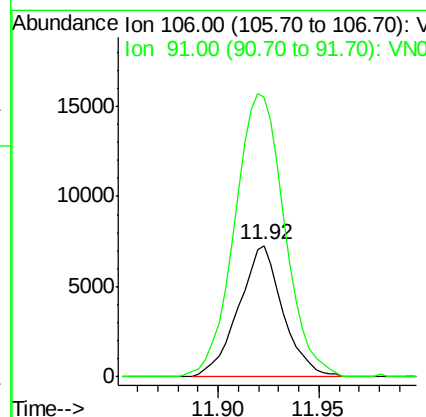
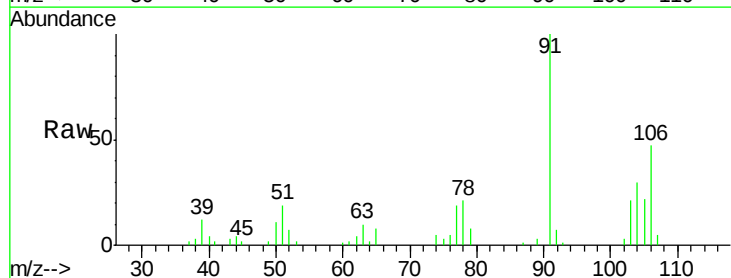
Manual Integrations
APPROVED

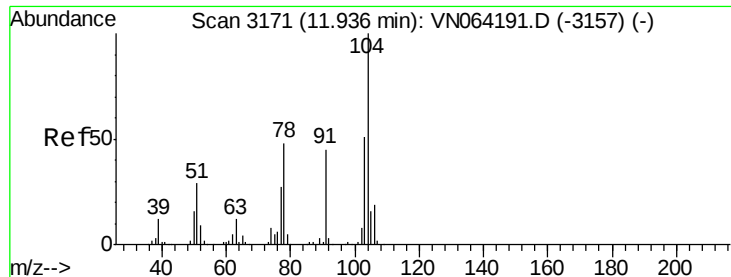
MMDadoda
10/23/2020 3:36:39 PM



#68
o-Xylene
Concen: 2.055 ug/l
RT: 11.92 min Scan# 3167
Delta R.T. 0.00 min
Lab File: VN064275.D
Acq: 23 Oct 2020 1:11

Tgt Ion:106 Resp: 11191
Ion Ratio Lower Upper
106 100
91 242.3 113.9 341.7





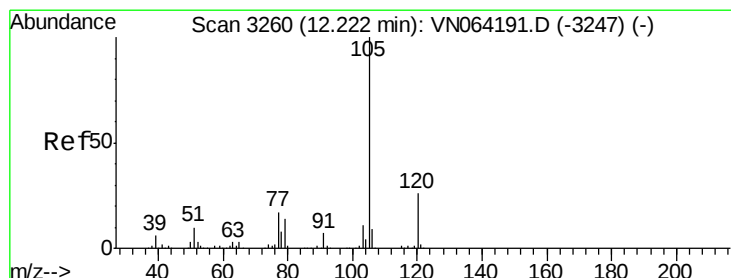
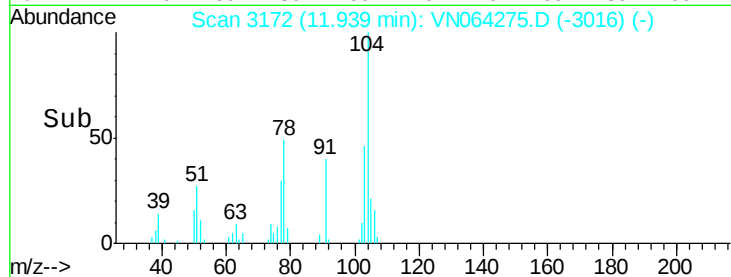
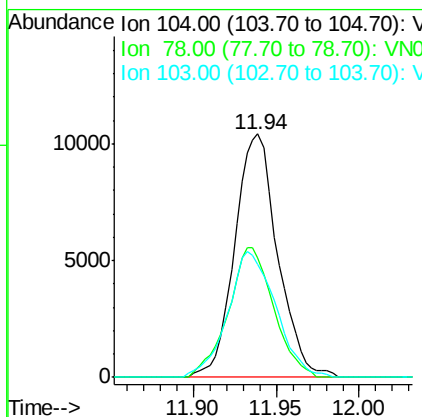
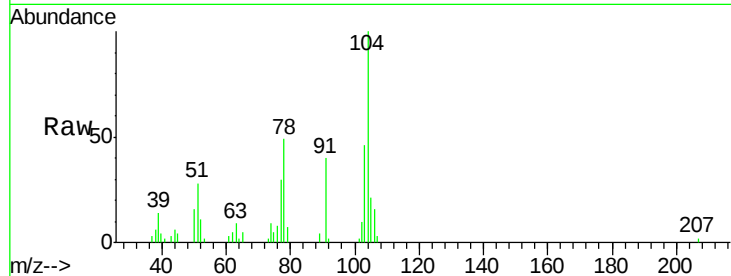
#69
Stvrene
Concen: 2.029 ug/l
RT: 11.94 min Scan# 3172
Delta R.T. 0.00 min
Lab File: VN064275.D
Acq: 23 Oct 2020 1:11

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2020

Tot Ion	Ratio	Resp	Lower	Upper
104	100	18701		
78	56.3		43.6	65.4
103	58.0		44.8	67.2

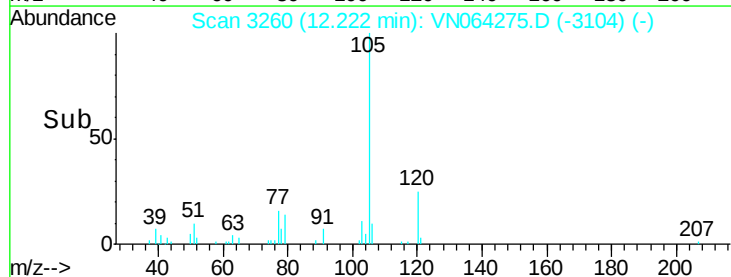
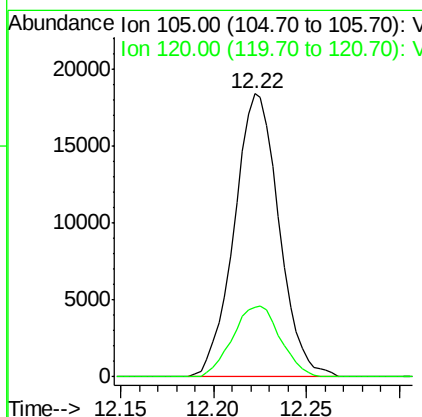
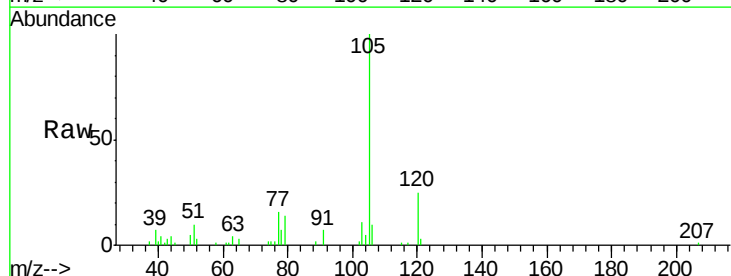
Manual Integrations
APPROVED

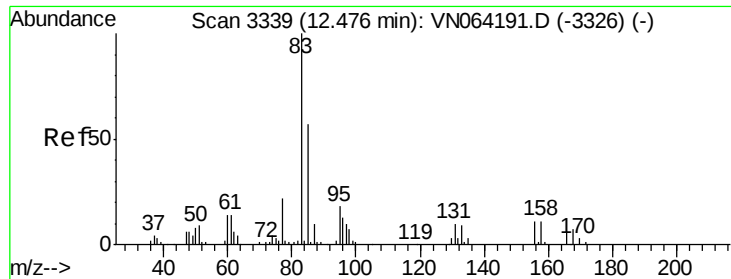
MMDadoda
10/23/2020 3:36:39 PM



#70
Isopropylbenzene
Concen: 2.145 ug/l
RT: 12.22 min Scan# 3260
Delta R.T. -0.00 min
Lab File: VN064275.D
Acq: 23 Oct 2020 1:11

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	30850		
120	26.5		18.1	33.7





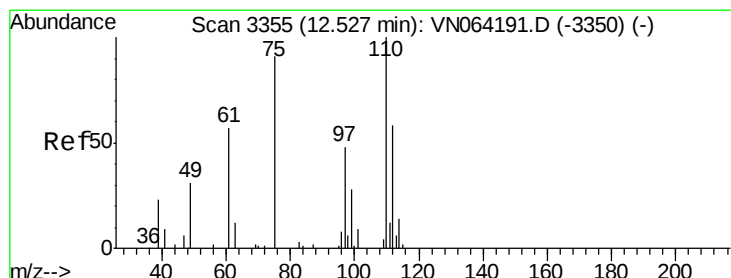
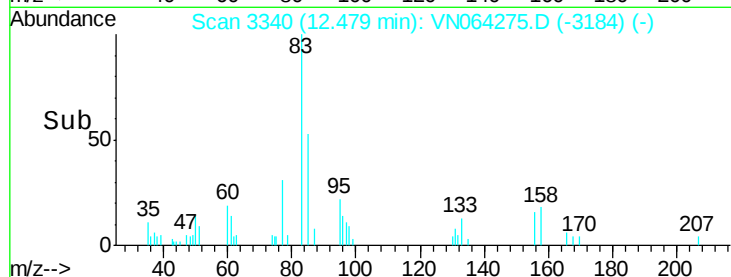
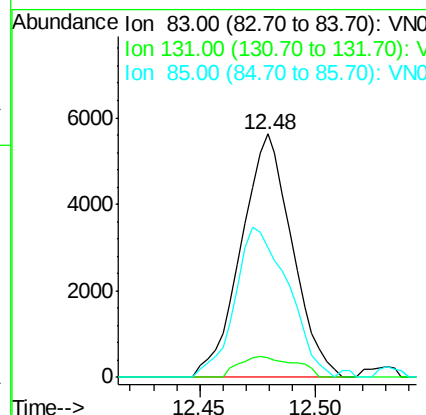
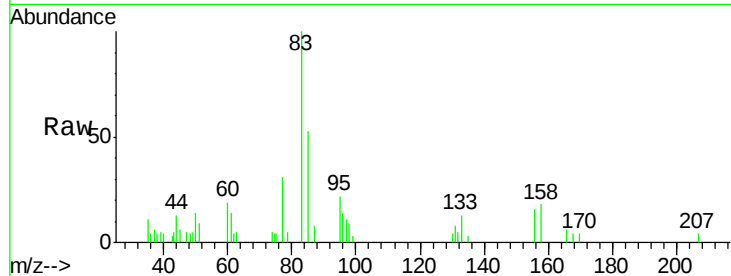
#71
 1,1,2,2-Tetrachloroethane
 Concen: 2.178 ug/l
 RT: 12.48 min Scan# 3340
 Delta R.T. 0.00 min
 Lab File: VN064275.D
 Acq: 23 Oct 2020 1:11

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2020

Tot Ion	Ratio	Resp	Lower	Upper
83	100	8586		
131	9.6		5.5	16.4
85	64.4		30.8	92.4

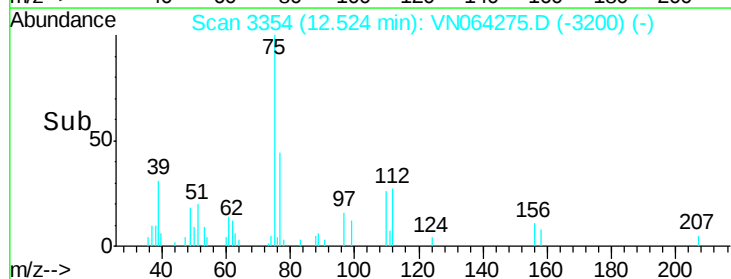
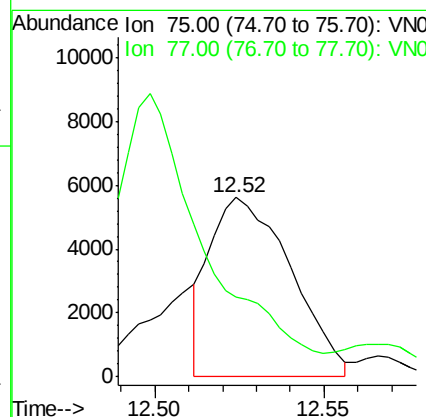
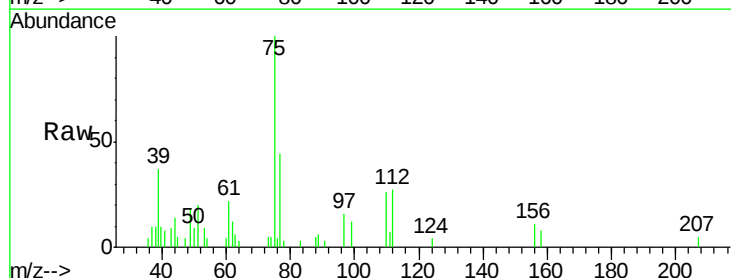
Manual Integrations
 APPROVED

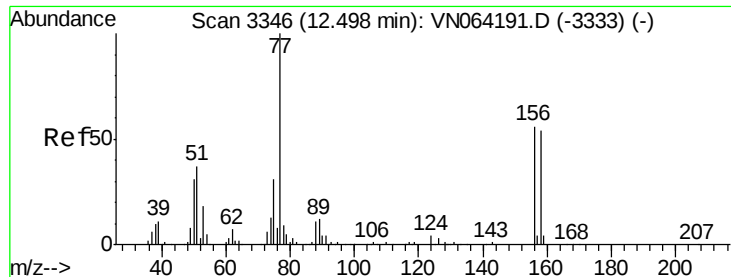
MMDadoda
 10/23/2020 3:36:39 PM



#72
 1,2,3-Trichloropropane
 Concen: 2.285 ug/l m
 RT: 12.52 min Scan# 3354
 Delta R.T. -0.00 min
 Lab File: VN064275.D
 Acq: 23 Oct 2020 1:11

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	9399		
77	184.6		0.0	417.6





#73

Bromobenzene

Concen: 2.354 ug/l

RT: 12.50 min Scan# 3346

Delta R.T. -0.00 min

Lab File: VN064275.D

Acq: 23 Oct 2020 1:11

Instrument :

MSVOA_N

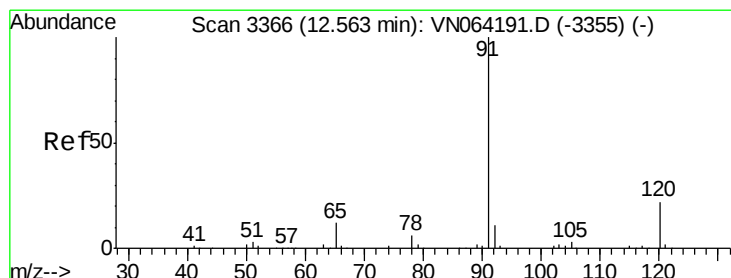
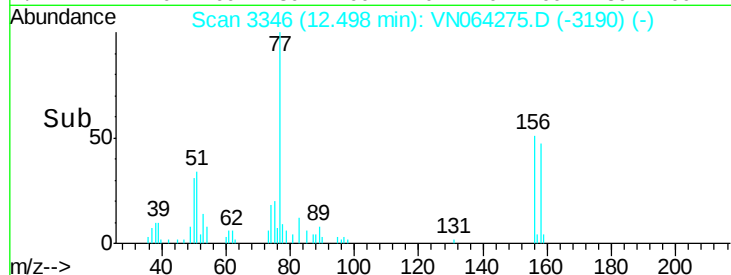
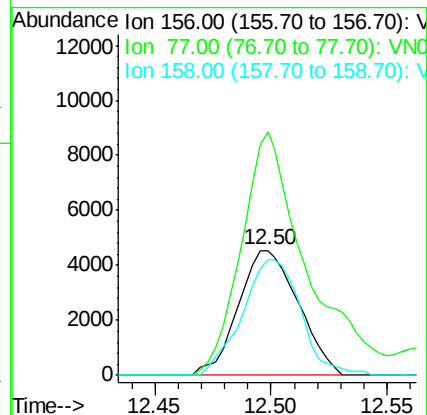
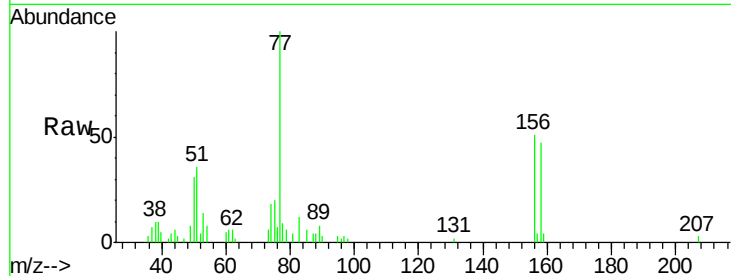
ClientSampleId :

LOD-MDL-WATER-01-QT4-2020

Tot Ion:	156	Resp:	8164
Ion Ratio	Lower	Upper	
156	100		
77	212.5	0.0	429.8
158	89.9	0.0	190.6

Manual Integrations
APPROVED

MMDadoda
10/23/2020 3:36:39 PM



#74

n-propylbenzene

Concen: 2.126 ug/l

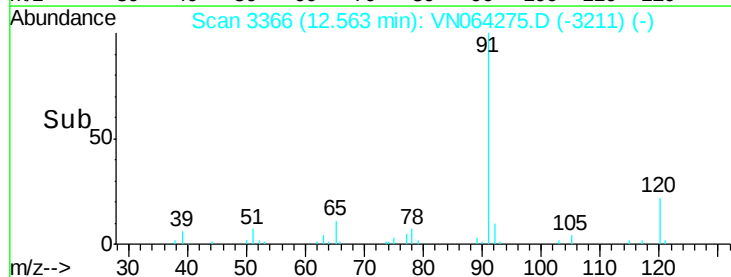
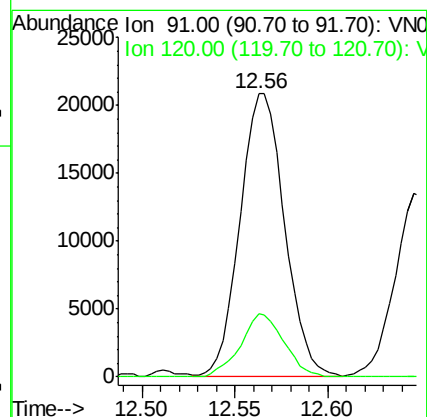
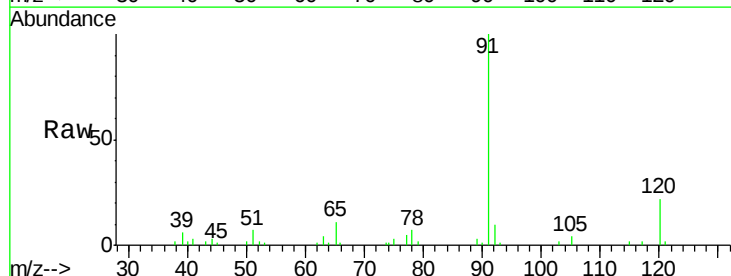
RT: 12.56 min Scan# 3366

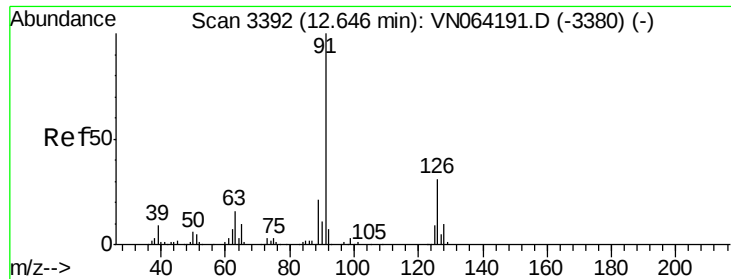
Delta R.T. -0.00 min

Lab File: VN064275.D

Acq: 23 Oct 2020 1:11

Tgt Ion:	91	Resp:	34910
Ion Ratio	Lower	Upper	
91	100		
120	21.5	0.0	43.8





#75

2-Chlorotoluene

Concen: 2.234 ug/l

RT: 12.65 min Scan# 3392

Delta R.T. -0.00 min

Lab File: VN064275.D

Acq: 23 Oct 2020 1:11

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2020

Tot Ion: 91 Resp: 22709

Ion Ratio Lower Upper

91 100

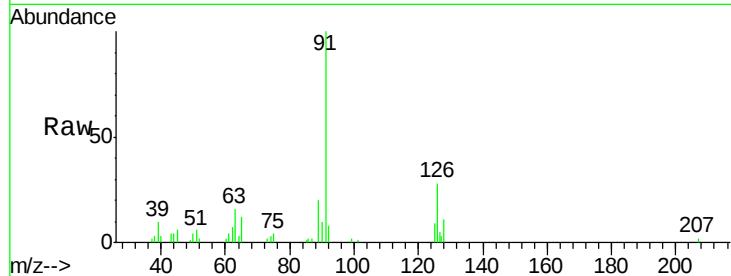
126 29.6 0.0 62.4

Manual Integrations

APPROVED

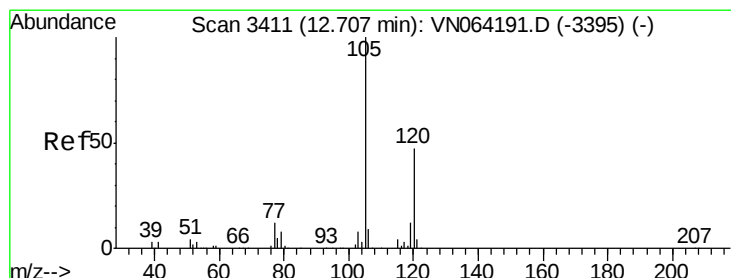
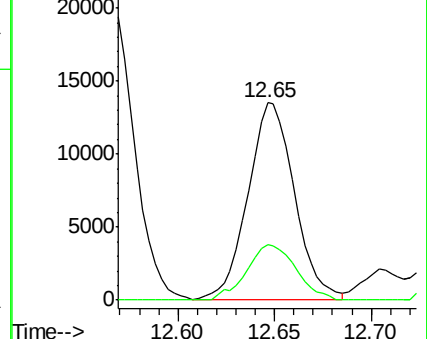
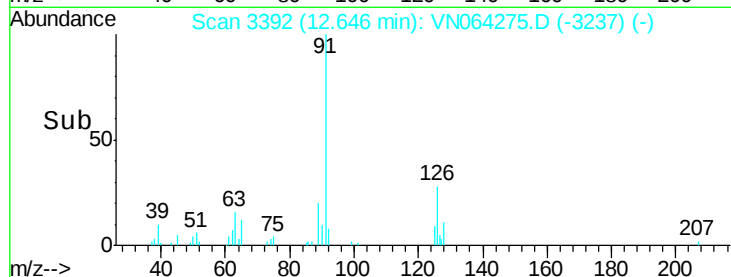
MMDadoda

10/23/2020 3:36:39 PM



Abundance Ion 91.00 (90.70 to 91.70): VN064191.D (-3380) (-)

Ion 126.00 (125.70 to 126.70): VN064191.D (-3380) (-)



#76

1,3,5-Trimethylbenzene

Concen: 2.057 ug/l

RT: 12.70 min Scan# 3410

Delta R.T. -0.00 min

Lab File: VN064275.D

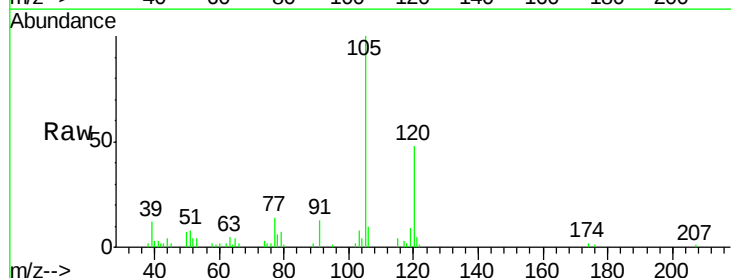
Acq: 23 Oct 2020 1:11

Tgt Ion: 105 Resp: 25173

Ion Ratio Lower Upper

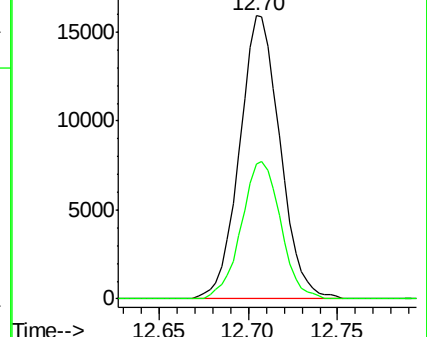
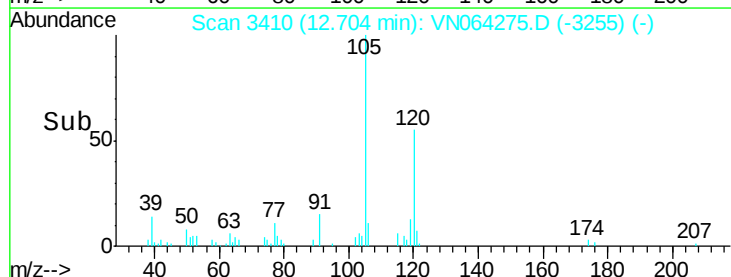
105 100

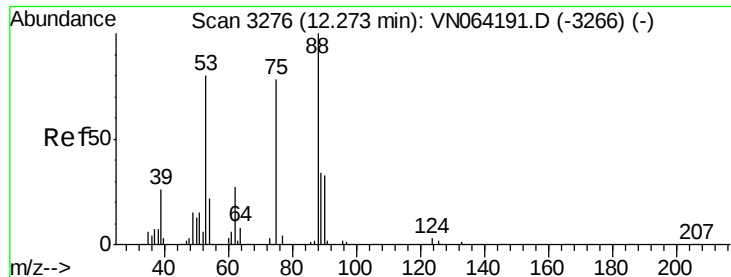
120 47.0 0.0 95.0



Abundance Ion 105.00 (104.70 to 105.70): VN064191.D (-3395) (-)

Ion 120.00 (119.70 to 120.70): VN064191.D (-3395) (-)





#77

t-1,4-Dichloro-2-butene

Concen: 1.803 ug/l

RT: 12.27 min Scan# 3276

Delta R.T. -0.00 min

Lab File: VN064275.D

Acq: 23 Oct 2020 1:11

Instrument :

MSVOA_N

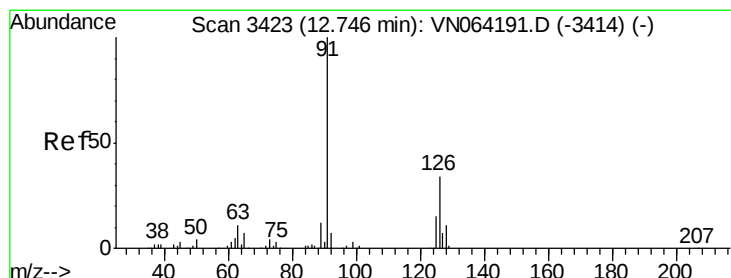
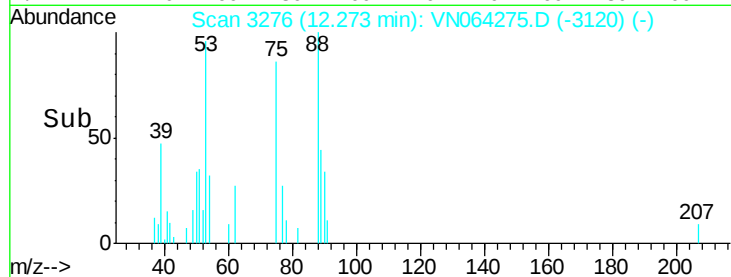
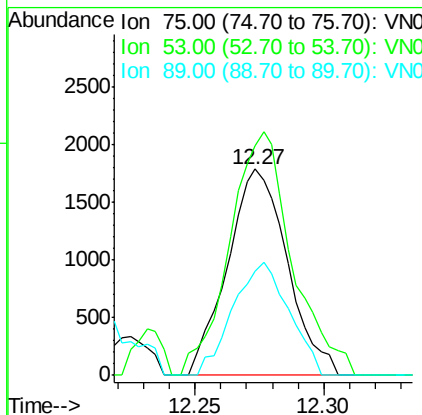
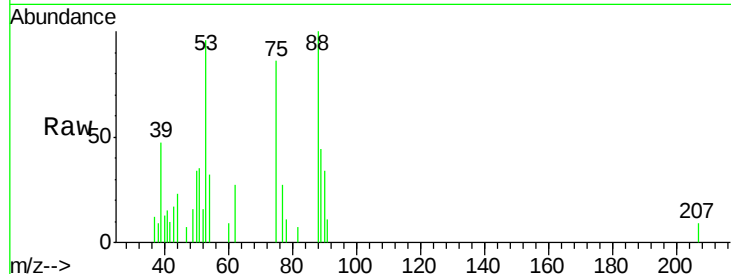
ClientSampleId :

LOD-MDL-WATER-01-QT4-2020

Tot Ion:	75	Resp:	2899
Ion Ratio	Lower	Upper	
75	100		
53	100.3	51.4	154.2
89	50.5	23.8	71.5

Manual Integrations
APPROVED

MMDadoda
10/23/2020 3:36:39 PM



#78

4-Chlorotoluene

Concen: 1.953 ug/l

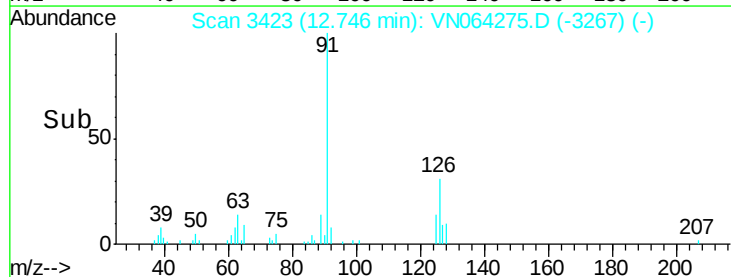
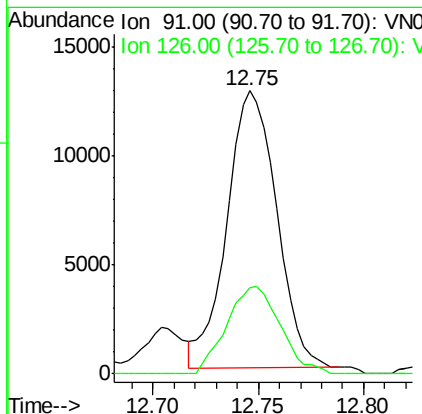
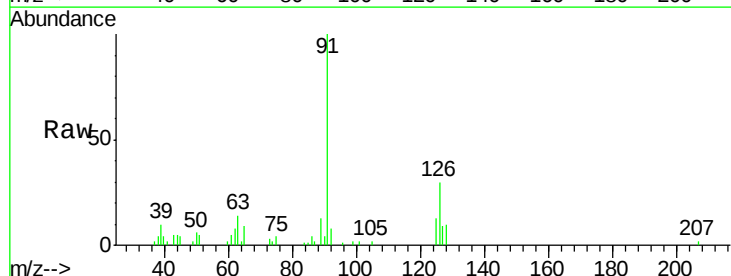
RT: 12.75 min Scan# 3423

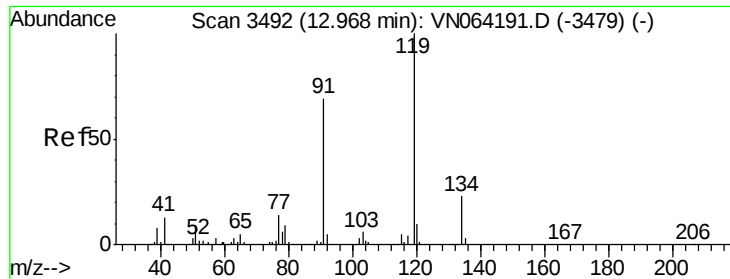
Delta R.T. -0.00 min

Lab File: VN064275.D

Acq: 23 Oct 2020 1:11

Tgt Ion:	91	Resp:	20767
Ion Ratio	Lower	Upper	
91	100		
126	33.9	0.0	63.2





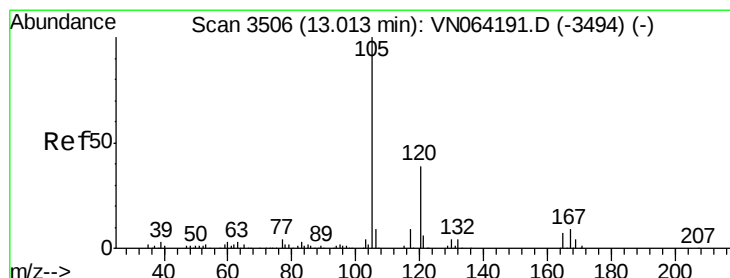
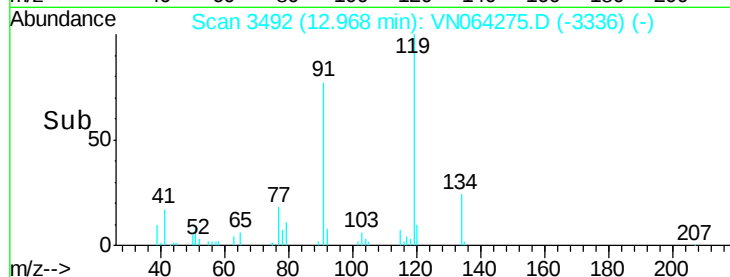
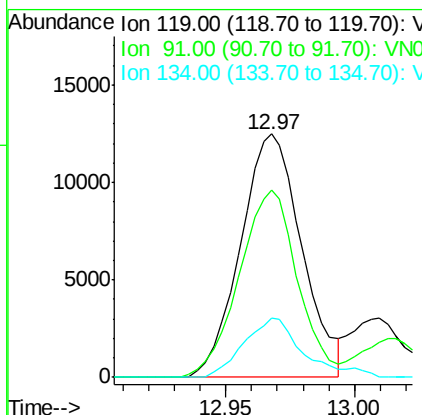
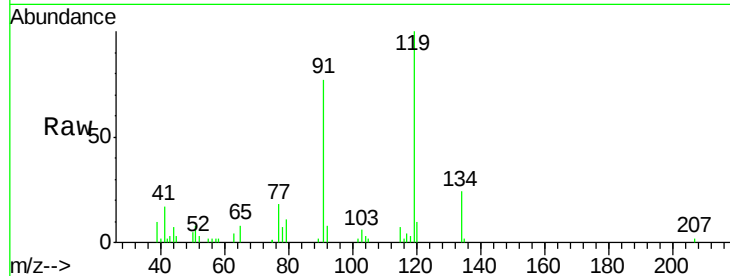
#79
tert-butylbenzene
Concen: 2.068 ug/l
RT: 12.97 min Scan# 3492
Delta R.T. -0.00 min
Lab File: VN064275.D
Acq: 23 Oct 2020 1:11

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2020

Tot Ion	Ratio	Resp	Lower	Upper
119	100	20691		
91	73.2		0.0	143.2
134	22.4		0.0	49.2

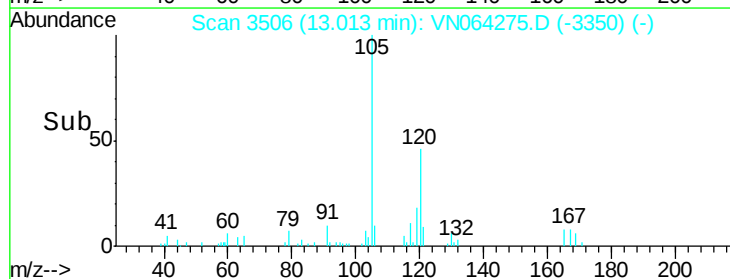
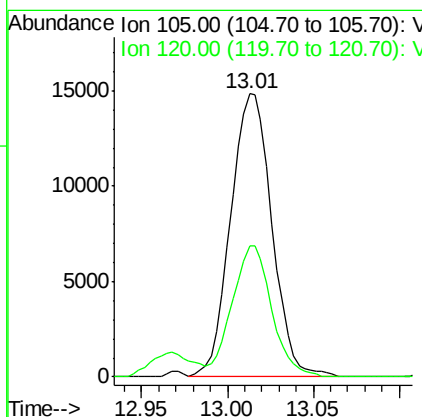
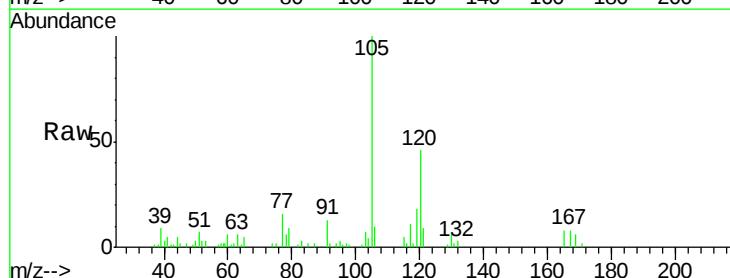
Manual Integrations
APPROVED

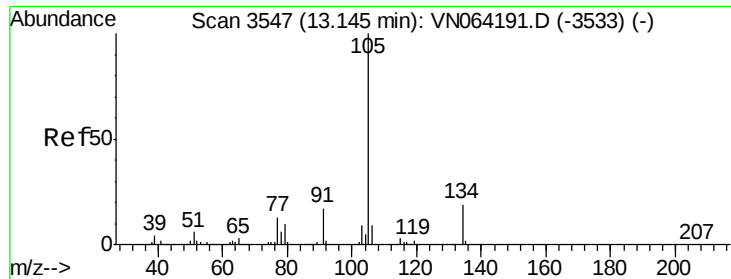
MMDadoda
10/23/2020 3:36:39 PM



#80
1,2,4-Trimethylbenzene
Concen: 1.995 ug/l
RT: 13.01 min Scan# 3506
Delta R.T. -0.00 min
Lab File: VN064275.D
Acq: 23 Oct 2020 1:11

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	24791		
120	44.4		0.0	85.8





#81

sec-Butylbenzene

Concen: 2.018 ug/l

RT: 13.14 min Scan# 3547

Delta R.T. -0.00 min

Lab File: VN064275.D

Acq: 23 Oct 2020 1:11

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2020

Tot Ion:105 Resp: 26272

Ion Ratio Lower Upper

105 100

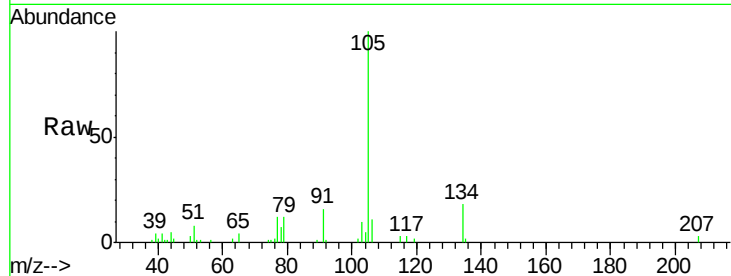
134 18.1 0.0 38.4

Manual Integrations

APPROVED

MMDadoda

10/23/2020 3:36:39 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

20000

15000

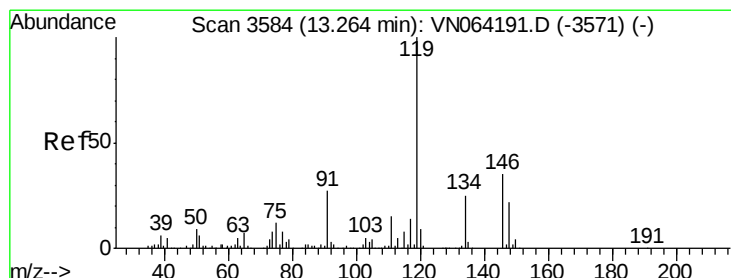
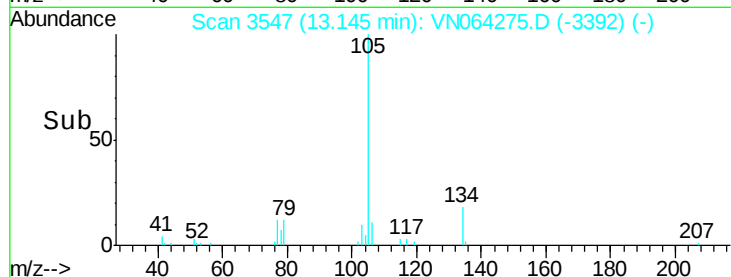
10000

5000

0

13.10 13.15 13.20

Time-->



#82

p-Isopropyltoluene

Concen: 1.894 ug/l

RT: 13.26 min Scan# 3584

Delta R.T. -0.00 min

Lab File: VN064275.D

Acq: 23 Oct 2020 1:11

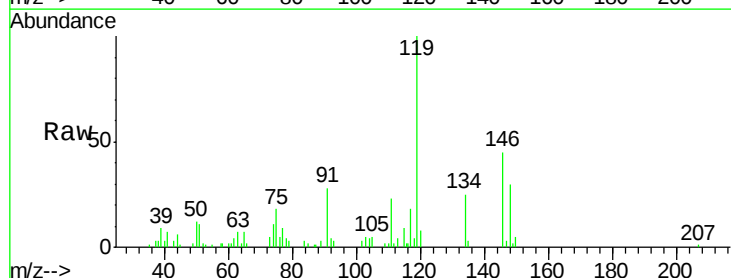
Tgt Ion:119 Resp: 22823

Ion Ratio Lower Upper

119 100

134 25.5 0.0 51.4

91 31.1 0.0 52.8



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

15000

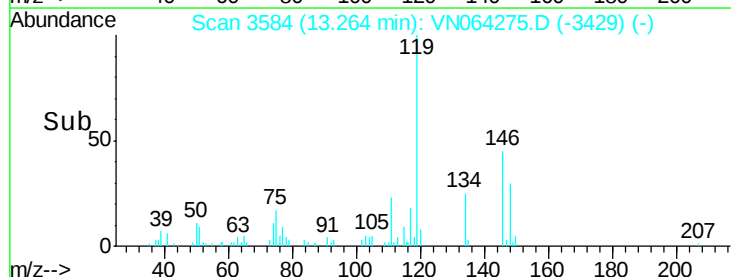
10000

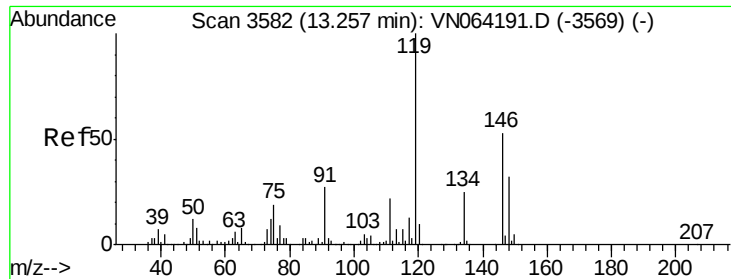
5000

0

13.20 13.25 13.30

Time-->





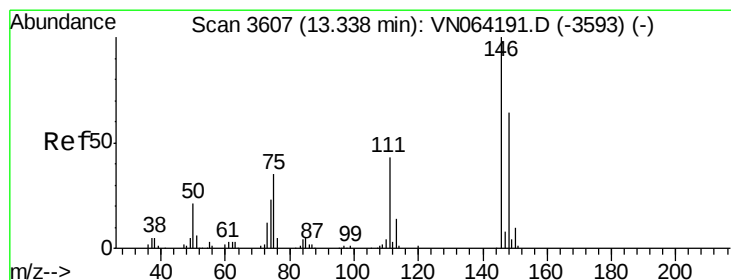
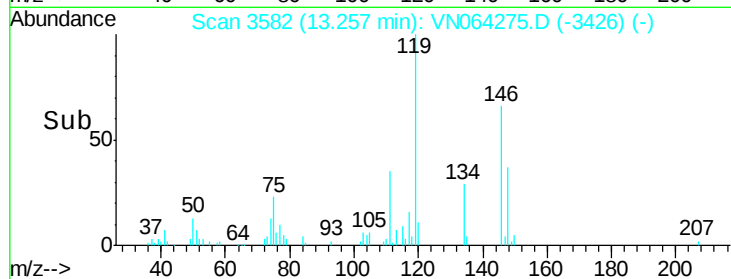
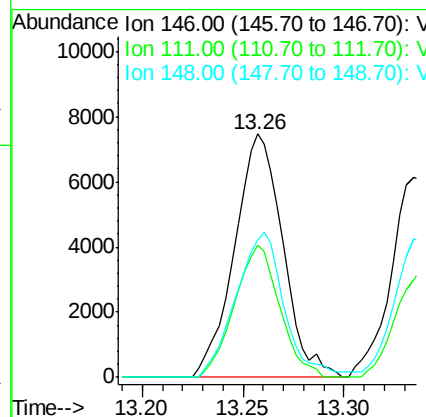
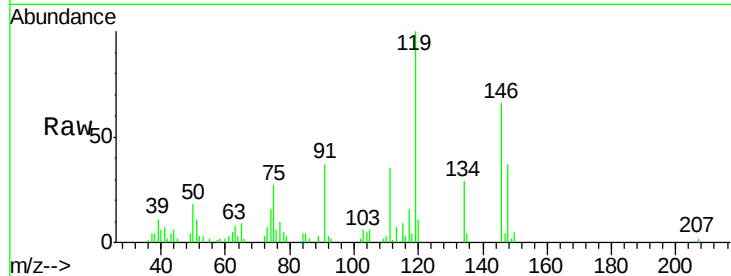
#83
 1,3-Dichlorobenzene
 Concen: 2.012 ug/l
 RT: 13.26 min Scan# 3582
 Delta R.T. -0.00 min
 Lab File: VN064275.D
 Acq: 23 Oct 2020 1:11

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2020

Tot Ion	Ratio	Resp	Lower	Upper
146	100	12510		
111	50.5	21.8	65.4	
148	59.3	31.4	94.2	

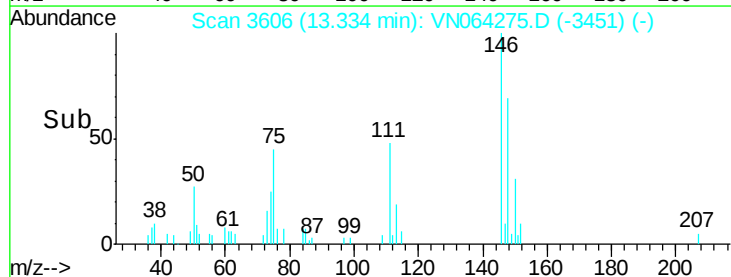
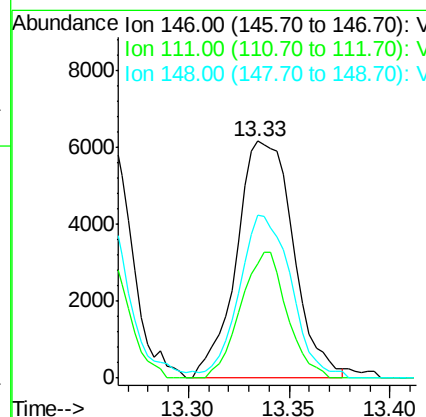
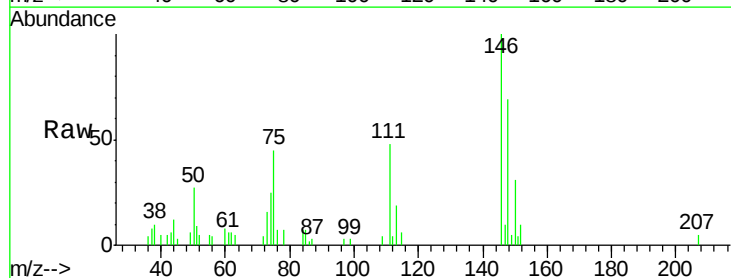
Manual Integrations
 APPROVED

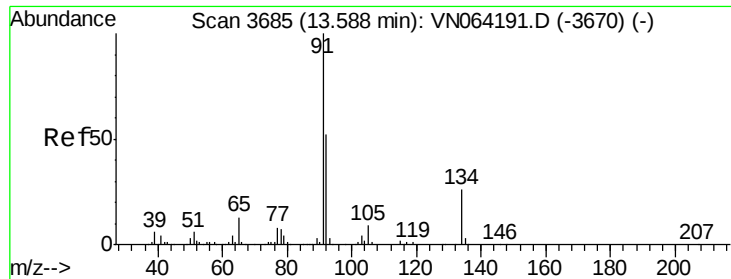
MMDadoda
 10/23/2020 3:36:39 PM



#84
 1,4-Dichlorobenzene
 Concen: 1.951 ug/l
 RT: 13.33 min Scan# 3606
 Delta R.T. -0.00 min
 Lab File: VN064275.D
 Acq: 23 Oct 2020 1:11

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	12143		
111	43.2	20.9	62.8	
148	62.4	30.9	92.7	





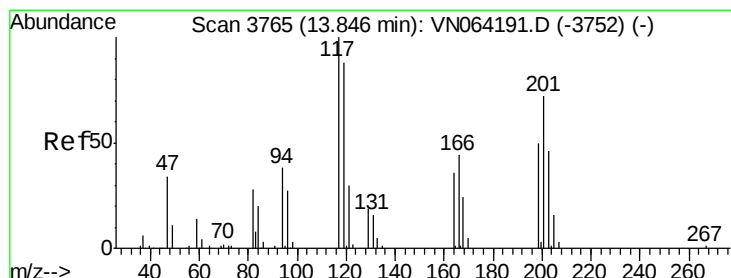
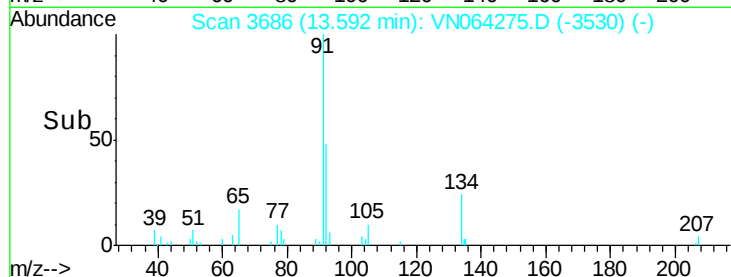
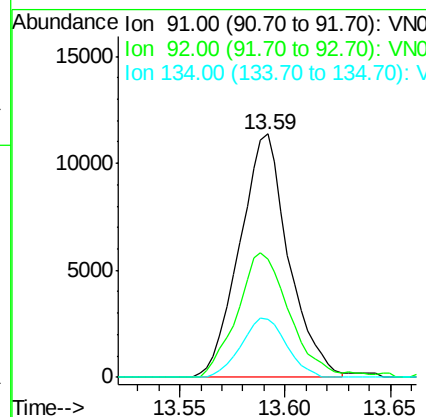
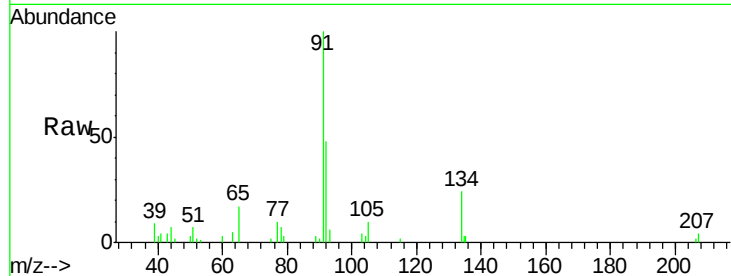
#85
n-Butylbenzene
Concen: 1.717 ug/l
RT: 13.59 min Scan# 3686
Delta R.T. 0.00 min
Lab File: VN064275.D
Acq: 23 Oct 2020 1:11

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2020

Tot Ion	Ratio	Resp	Lower	Upper
91	100	18367		
92	53.9	0.0	104.8	
134	22.5	0.0	49.8	

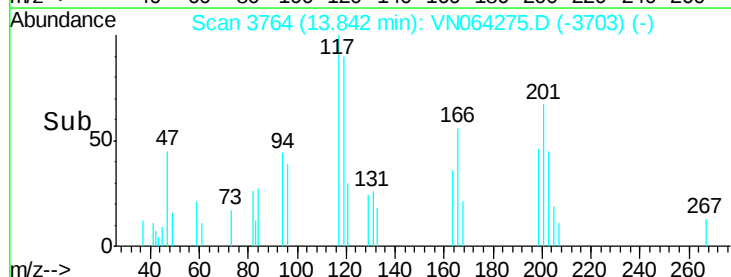
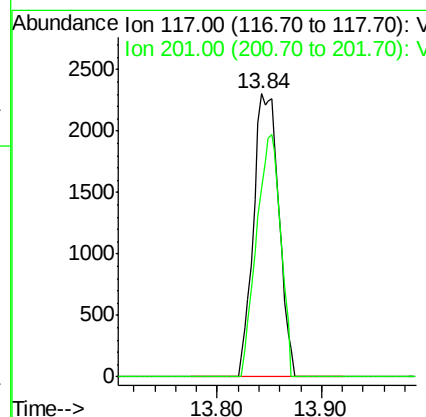
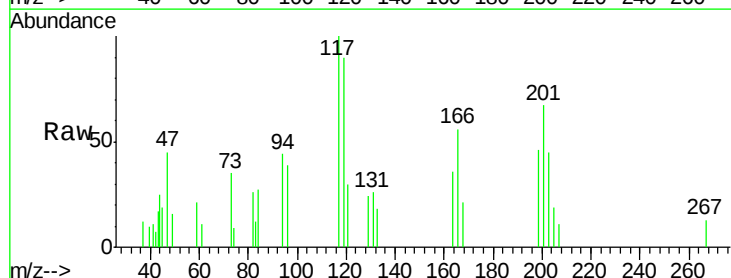
Manual Integrations
APPROVED

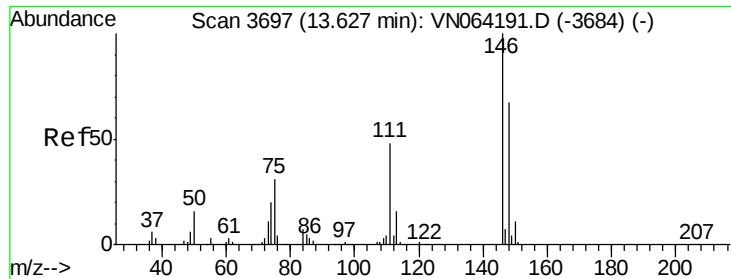
MMDadoda
10/23/2020 3:36:39 PM



#86
Hexachloroethane
Concen: 1.876 ug/l m
RT: 13.84 min Scan# 3764
Delta R.T. -0.00 min
Lab File: VN064275.D
Acq: 23 Oct 2020 1:11

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	3891		
201	81.2	37.5	112.3	





#87

1,2-Dichlorobenzene

Concen: 2.072 ug/l

RT: 13.63 min Scan# 3697

Delta R.T. -0.00 min

Lab File: VN064275.D

Acq: 23 Oct 2020 1:11

Instrument :

MSVOA_N

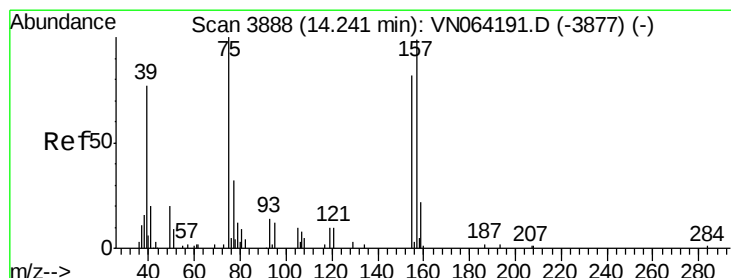
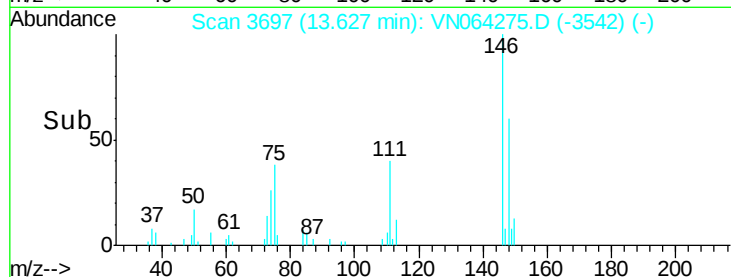
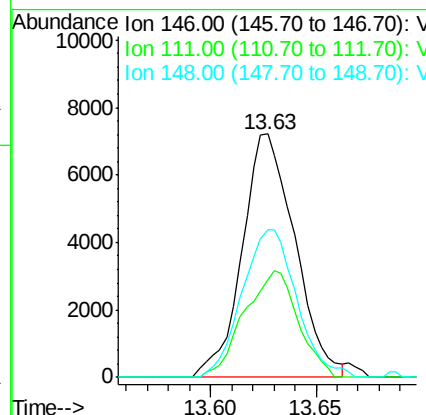
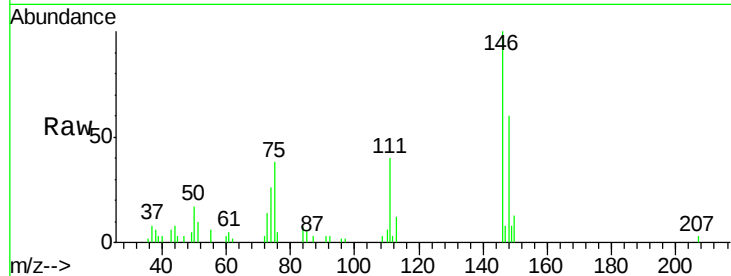
ClientSampleId :

LOD-MDL-WATER-01-QT4-2020

Tot Ion:	146	Resp:	12564
Ion Ratio	Lower	Upper	
146	100		
111	44.6	22.6	67.8
148	62.6	32.6	97.8

Manual Integrations
APPROVED

MMDadoda
10/23/2020 3:36:39 PM



#88

1,2-Dibromo-3-Chloropropane

Concen: 2.155 ug/l m

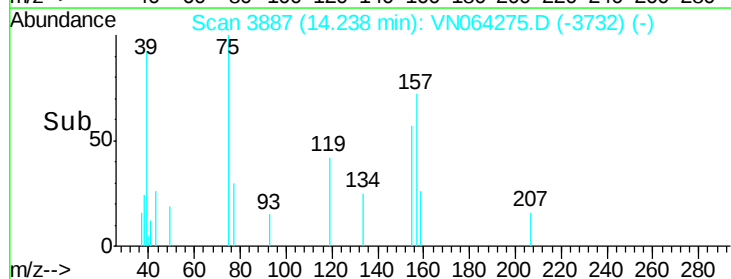
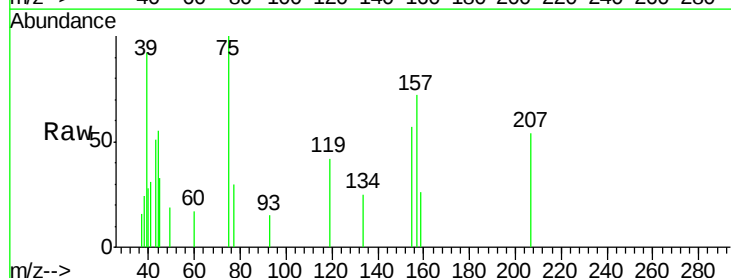
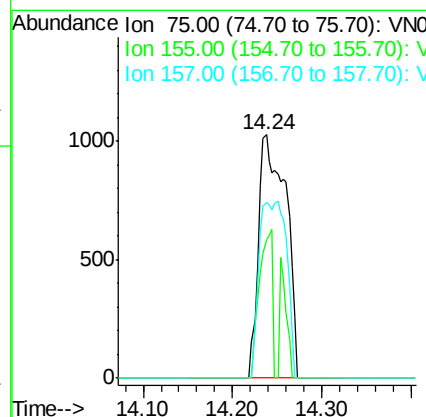
RT: 14.24 min Scan# 3887

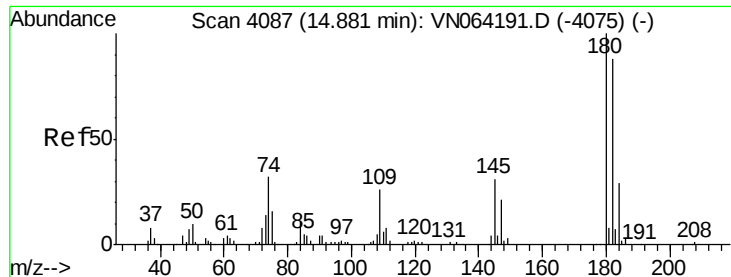
Delta R.T. -0.00 min

Lab File: VN064275.D

Acq: 23 Oct 2020 1:11

Tgt Ion:	75	Resp:	2151
Ion Ratio	Lower	Upper	
75	100		
155	30.1	61.1	91.7#
157	37.2	76.5	114.7#





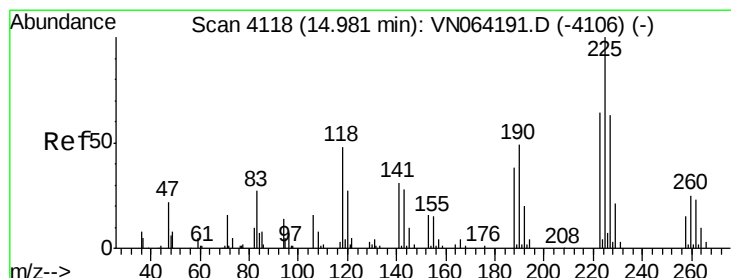
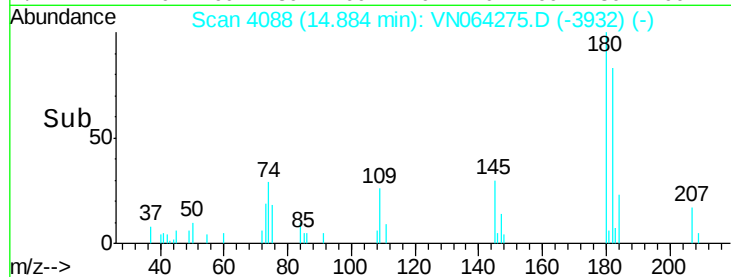
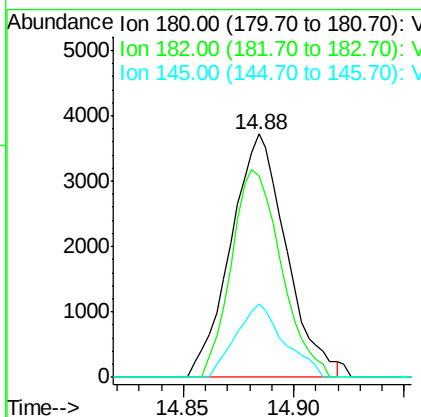
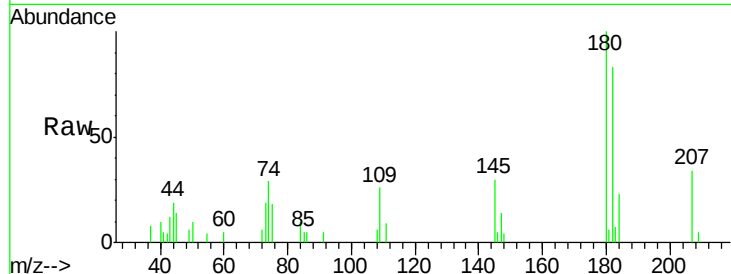
#89
 1,2,4-Trichlorobenzene
 Concen: 1.785 ug/l
 RT: 14.88 min Scan# 4088
 Delta R.T. 0.00 min
 Lab File: VN064275.D
 Acq: 23 Oct 2020 1:11

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2020

Tot Ion:	180	Resp:	6501
Ion Ratio	Lower	Upper	
180	100		
182	76.9	73.0	109.4
145	26.2	24.3	36.5

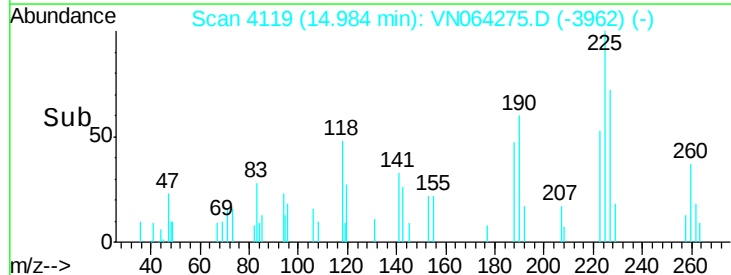
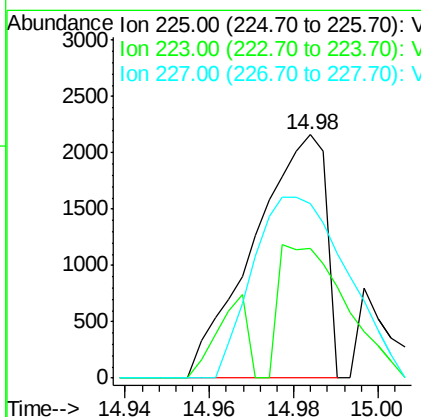
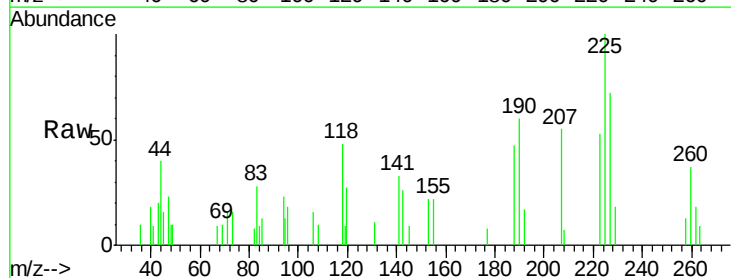
Manual Integrations
 APPROVED

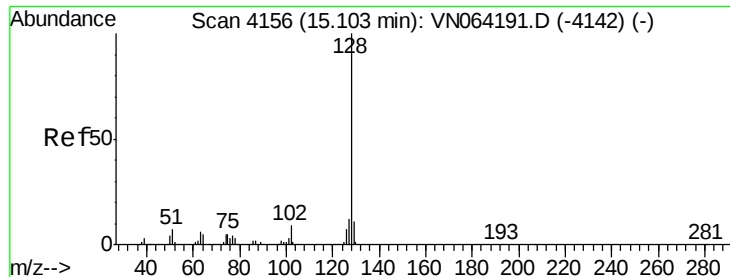
MMDadoda
 10/23/2020 3:36:39 PM



#90
 Hexachlorobutadiene
 Concen: 1.392 ug/l
 RT: 14.98 min Scan# 4119
 Delta R.T. 0.00 min
 Lab File: VN064275.D
 Acq: 23 Oct 2020 1:11

Tgt Ion:	225	Resp:	2569
Ion Ratio	Lower	Upper	
225	100		
223	50.8	0.0	127.0
227	97.3	0.0	129.4





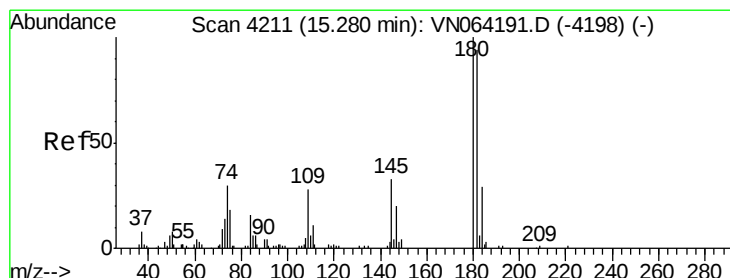
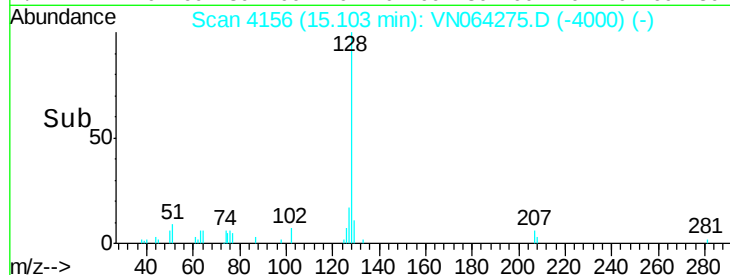
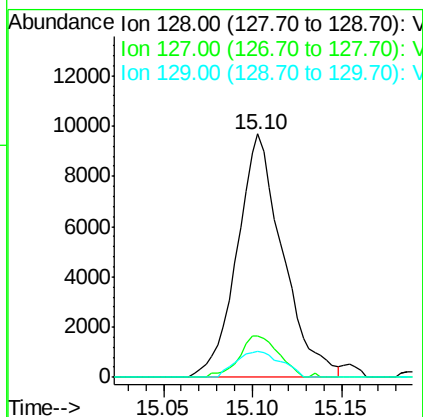
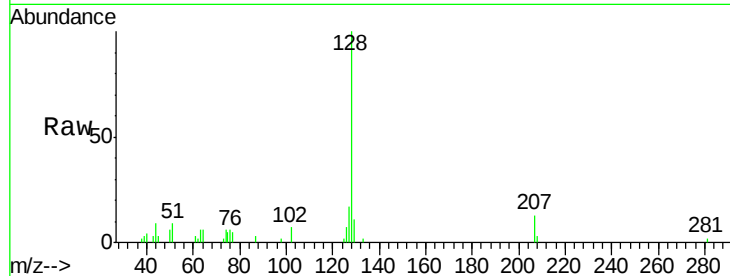
#91
Naphthalene
Concen: 1.564 ug/l
RT: 15.10 min Scan# 4156
Delta R.T. -0.00 min
Lab File: VN064275.D
Acq: 23 Oct 2020 1:11

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2020

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.6	10.1	15.1
129	10.6	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
10/23/2020 3:36:39 PM



#92
1,2,3-Trichlorobenzene
Concen: 1.468 ug/l
RT: 15.28 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN064275.D
Acq: 23 Oct 2020 1:11

Tgt Ion	Ratio	Lower	Upper
180	100		
182	100.1	0.0	190.0
145	27.7	0.0	66.6

