

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052920\
 Data File : VN061561.D
 Acq On : 29 May 2020 12:51
 Operator : JC/MD
 Sample : L2182-09 .5PPB MDL
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT2-2020DL

Manual Integrations
 APPROVED

MMDadoda
 6/1/2020 12:30:01 PM

Quant Time: May 30 07:26:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 30 07:13:34 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	283789	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	503977	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	458216	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	189296	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	200954	59.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	118.86%	
35) Dibromofluoromethane	7.55	113	154932	60.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	121.20%	
50) Toluene-d8	10.06	98	631057	53.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.52%	
62) 4-Bromofluorobenzene	12.38	95	205577	47.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.12%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	1010	0.341	ug/l	95
3) Chloromethane	2.03	50	2267	0.655	ug/l	93
4) Vinyl Chloride	2.16	62	2550	0.538	ug/l	95
5) Bromomethane	2.55	94	2258	0.830	ug/l	84
6) Chloroethane	2.67	64	1576	0.516	ug/l	97
7) Trichlorofluoromethane	2.98	101	3392	0.555	ug/l	99
8) Diethyl Ether	3.37	74	627	0.335	ug/l #	48
9) 1,1,2-Trichlorotrifluoroet	3.70	101	1296m	0.477	ug/l	
10) Methyl Iodide	3.91	142	2454	0.651	ug/l #	87
11) Tert butyl alcohol	4.74	59	1345m	2.991	ug/l	
12) 1,1-Dichloroethene	3.70	96	1361m	0.469	ug/l	
13) Acrolein	3.57	56	747	4.332	ug/l	98
14) Allyl chloride	4.27	41	1576	0.416	ug/l #	76
15) Acrylonitrile	4.94	53	2505	1.996	ug/l #	28
16) Acetone	3.78	43	4324	3.616	ug/l	98
17) Carbon Disulfide	4.00	76	4284	0.671	ug/l	98
18) Methyl Acetate	4.29	43	1878m	0.614	ug/l	
19) Methyl tert-butyl Ether	5.00	73	4779m	0.484	ug/l	
20) Methylene Chloride	4.50	84	1848	0.446	ug/l	87
21) trans-1,2-Dichloroethene	4.98	96	1865m	0.570	ug/l	
22) Diisopropyl ether	5.90	45	4160	0.498	ug/l	96
23) Vinyl Acetate	5.84	43	14259	2.141	ug/l	99
24) 1,1-Dichloroethane	5.79	63	2783m	0.525	ug/l	
25) 2-Butanone	6.79	43	3813	2.380	ug/l	97
26) 2,2-Dichloropropane	6.78	77	2954m	0.609	ug/l	
27) cis-1,2-Dichloroethene	6.79	96	1649	0.445	ug/l	75
28) Bromochloromethane	7.15	49	1231	0.538	ug/l #	83
29) Tetrahydrofuran	7.17	42	2580	2.442	ug/l #	74
30) Chloroform	7.33	83	2882	0.492	ug/l	99
31) Cyclohexane	7.62	56	7778	1.632	ug/l #	32
32) 1,1,1-Trichloroethane	7.52	97	2443	0.457	ug/l #	39
36) 1,1-Dichloropropene	7.75	75	2030	0.455	ug/l #	89
37) Ethyl Acetate	6.88	43	1724m	0.480	ug/l	
38) Carbon Tetrachloride	7.72	117	1413m	0.328	ug/l	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.05	83	2475	0.450	ug/l	92
40) Benzene	8.00	78	5986	0.435	ug/l	96
41) Methacrylonitrile	7.12	41	731	0.444	ug/l #	61
42) 1,2-Dichloroethane	8.08	62	2396	0.520	ug/l #	72
43) Isopropyl Acetate	8.13	43	2817	0.436	ug/l #	79
44) Trichloroethene	8.80	130	2022	0.478	ug/l	80
45) 1,2-Dichloropropane	9.09	63	1468	0.449	ug/l	100
46) Dibromomethane	9.18	93	1082	0.432	ug/l	88
47) Bromodichloromethane	9.37	83	2104	0.424	ug/l #	85
48) Methyl methacrylate	9.17	41	1305	0.449	ug/l	89
49) 1,4-Dioxane	9.17	88	626	13.892	ug/l #	54
51) 4-Methyl-2-Pentanone	9.95	43	7427	2.039	ug/l	99
52) Toluene	10.12	92	4002	0.445	ug/l	94
53) t-1,3-Dichloropropene	10.35	75	2366	0.442	ug/l	91
54) cis-1,3-Dichloropropene	9.81	75	2406	0.418	ug/l #	86
55) 1,1,2-Trichloroethane	10.53	97	1595	0.446	ug/l #	81
56) Ethyl methacrylate	10.41	69	1643	0.329	ug/l #	63
57) 1,3-Dichloropropane	10.68	76	2540	0.444	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.67	63	4367	2.044	ug/l	93
59) 2-Hexanone	10.73	43	5248	2.006	ug/l	94
60) Dibromochloromethane	10.88	129	1333	0.328	ug/l	97
61) 1,2-Dibromoethane	10.98	107	1471m	0.394	ug/l	
64) Tetrachloroethene	10.61	164	2087	0.484	ug/l	85
65) Chlorobenzene	11.41	112	4470	0.469	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.49	131	1490	0.420	ug/l #	59
67) Ethyl Benzene	11.48	91	7522	0.457	ug/l	99
68) m/p-Xylenes	11.59	106	5444	0.834	ug/l	91
69) o-Xylene	11.92	106	2703	0.436	ug/l	100
70) Styrene	11.94	104	3894	0.379	ug/l #	87
71) Bromoform	12.10	173	982	0.359	ug/l #	28
73) Isopropylbenzene	12.22	105	6940	0.502	ug/l	94
74) N-amyl acetate	12.05	43	2437	0.560	ug/l #	76
75) 1,1,2,2-Tetrachloroethane	12.48	83	1953	0.504	ug/l #	96
76) 1,2,3-Trichloropropane	12.53	75	2363m	0.686	ug/l	
77) Bromobenzene	12.50	156	1874	0.531	ug/l	73
78) n-propylbenzene	12.57	91	7829	0.508	ug/l	97
79) 2-Chlorotoluene	12.65	91	5135	0.558	ug/l	87
80) 1,3,5-Trimethylbenzene	12.71	105	5401	0.468	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.28	75	323m	0.240	ug/l	
82) 4-Chlorotoluene	12.75	91	5244	0.542	ug/l	89
83) tert-Butylbenzene	12.97	119	5078	0.498	ug/l	92
84) 1,2,4-Trimethylbenzene	13.02	105	6104	0.532	ug/l	96
85) sec-Butylbenzene	13.15	105	6400	0.487	ug/l	96
86) p-Isopropyltoluene	13.26	119	5964	0.493	ug/l	96
87) 1,3-Dichlorobenzene	13.26	146	3249	0.520	ug/l	93
88) 1,4-Dichlorobenzene	13.34	146	3860m	0.607	ug/l	
89) n-Butylbenzene	13.59	91	5107	0.504	ug/l	97
90) Hexachloroethane	13.85	117	534	0.399	ug/l	71
91) 1,2-Dichlorobenzene	13.63	146	2758	0.462	ug/l	80
92) 1,2-Dibromo-3-Chloropropan	14.24	75	309m	0.391	ug/l	

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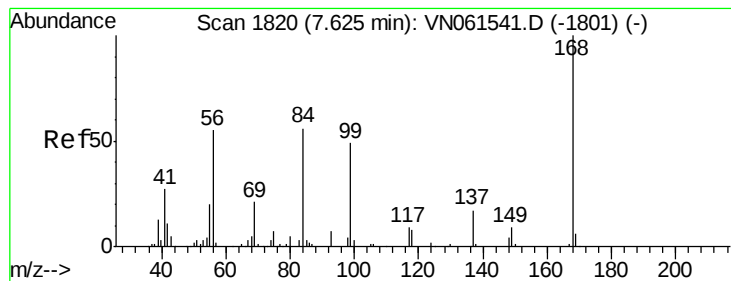
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.89	180	1948	0.558	ug/l	93
94) Hexachlorobutadiene	14.98	225	760	0.511	ug/l	78
95) Naphthalene	15.11	128	6968	0.656	ug/l #	90
96) 1,2,3-Trichlorobenzene	15.29	180	2083	0.607	ug/l	93

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

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Instrument :

MSVOA_N

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MDL-WATER-03-QT2-2020DL

Tot Ion:168 Resp: 283789

Ion Ratio Lower Upper

168 100

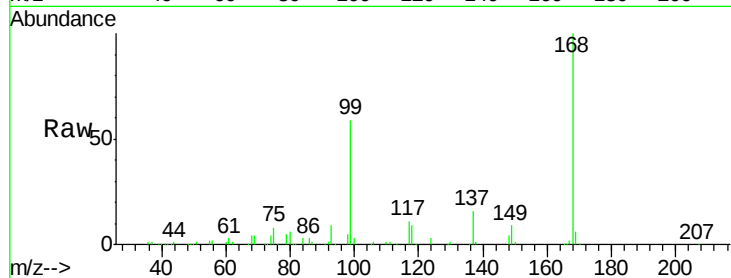
99 58.9 45.0 67.4

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

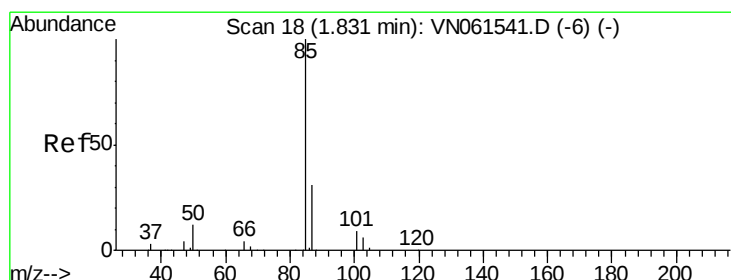
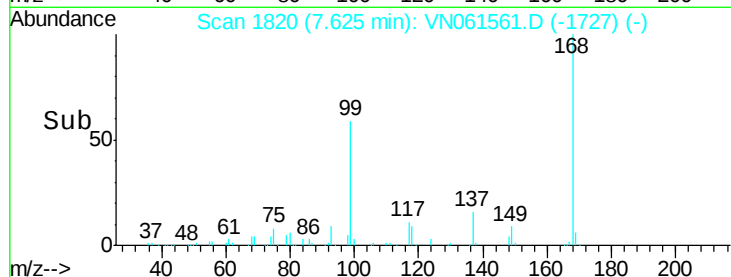
7.63

100000

50000

0

Time--> 7.50 7.60 7.70



#2

Dichlorodifluoromethane

Concen: 0.341 ug/l

RT: 1.83 min Scan# 17

Delta R.T. -0.00 min

Lab File: VN061561.D

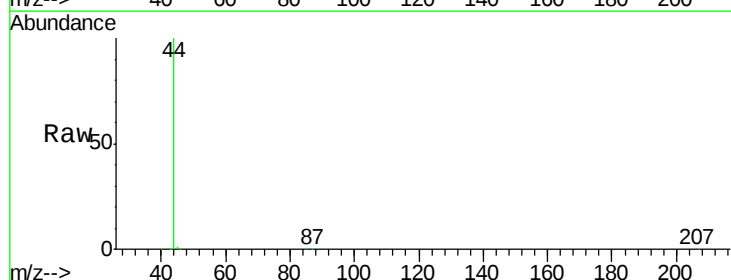
Acq: 29 May 2020 12:51

Tgt Ion: 85 Resp: 1010

Ion Ratio Lower Upper

85 100

87 28.7 15.6 46.8



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

1000

800

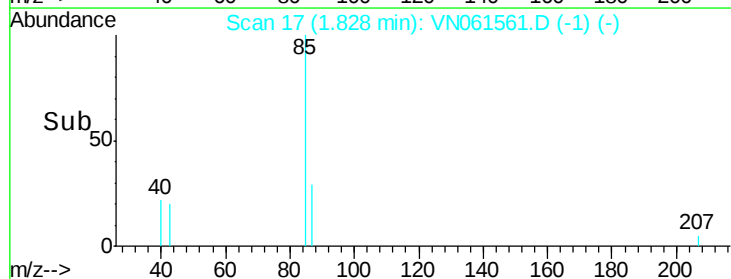
600

400

200

0

Time--> 1.80 1.82 1.84 1.86





#3

Chloromethane

Concen: 0.655 ug/l

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN061561.D

Acq: 29 May 2020 12:51

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion: 50 Resp: 2267

Ion Ratio Lower Upper

50 100

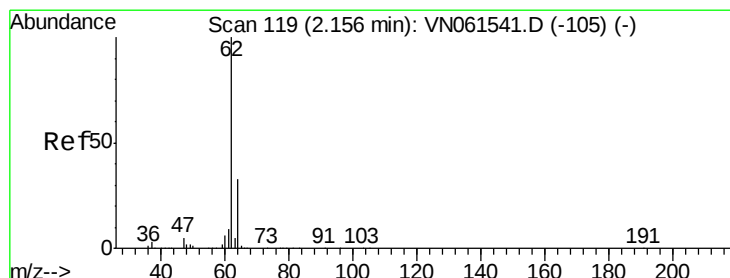
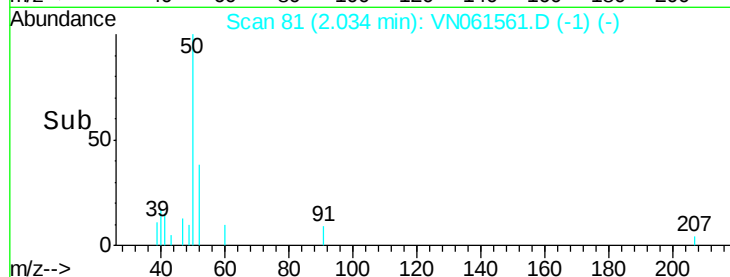
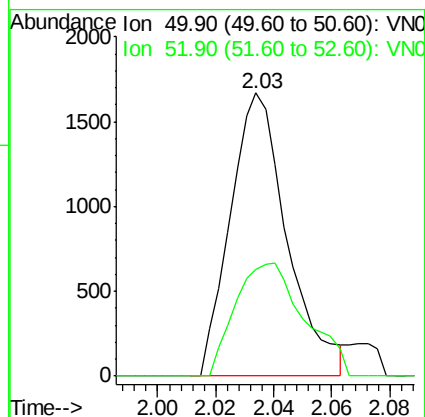
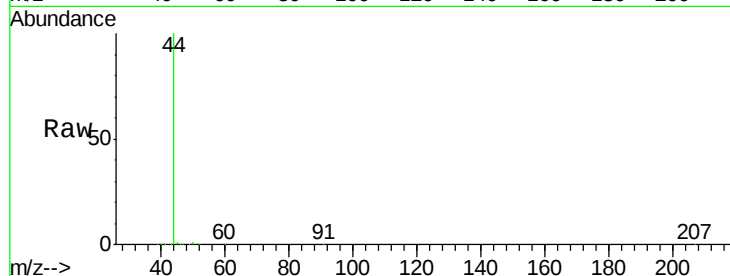
52 37.5 26.7 40.1

Manual Integrations

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#4

Vinyl Chloride

Concen: 0.538 ug/l

RT: 2.16 min Scan# 120

Delta R.T. 0.00 min

Lab File: VN061561.D

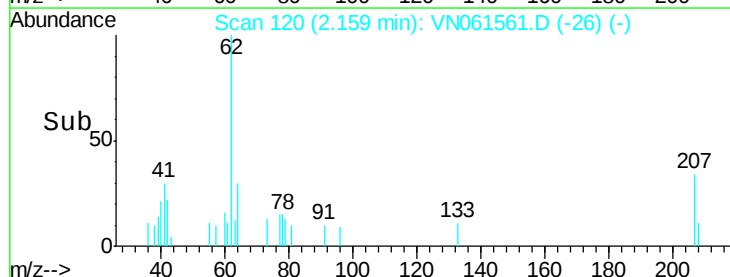
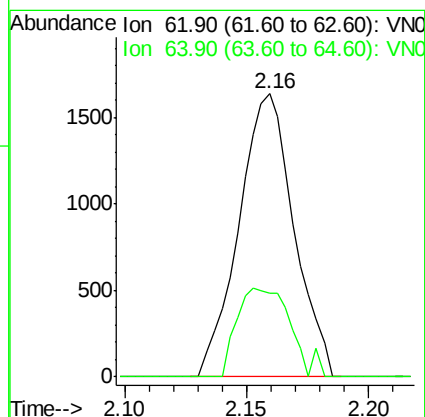
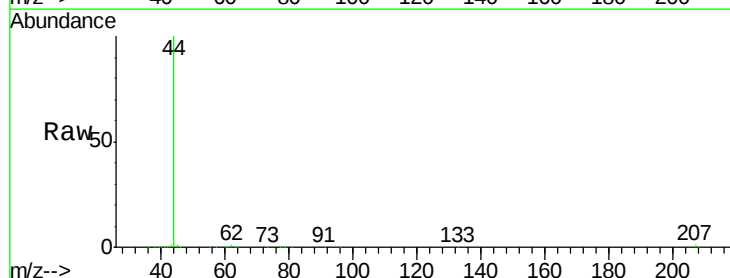
Acq: 29 May 2020 12:51

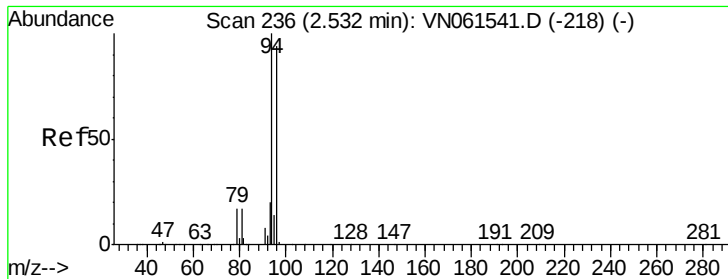
Tgt Ion: 62 Resp: 2550

Ion Ratio Lower Upper

62 100

64 29.7 26.2 39.2





#5

Bromomethane

Concen: 0.830 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.01 min

Lab File: VN061561.D

Acq: 29 May 2020 12:51

Instrument :

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Tot Ion: 94 Resp: 2258

Ion Ratio Lower Upper

94 100

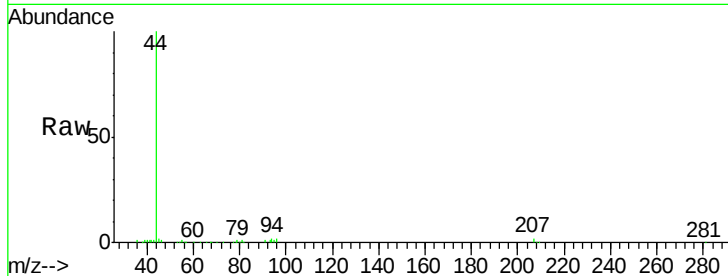
96 108.9 74.8 112.2

Manual Integrations

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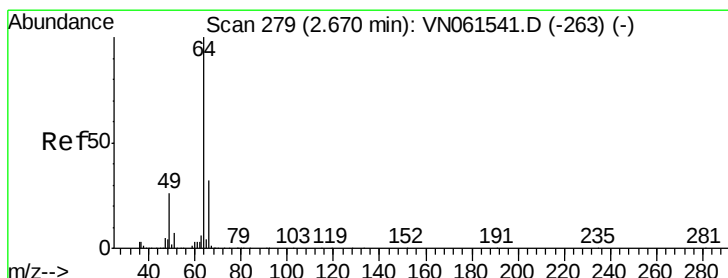
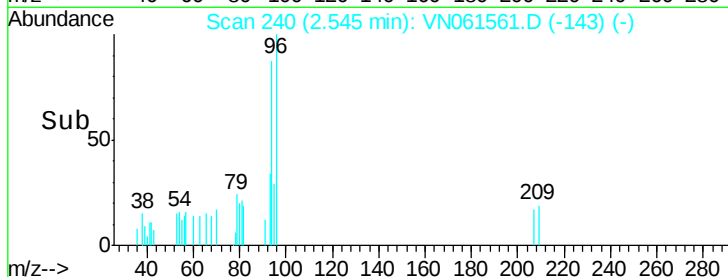
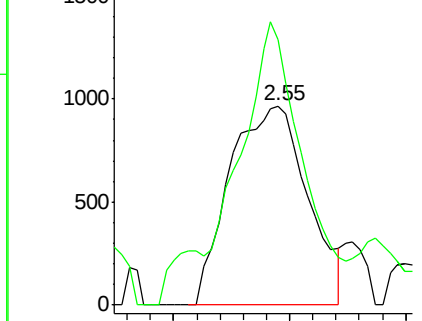
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 0.516 ug/l

RT: 2.67 min Scan# 280

Delta R.T. 0.00 min

Lab File: VN061561.D

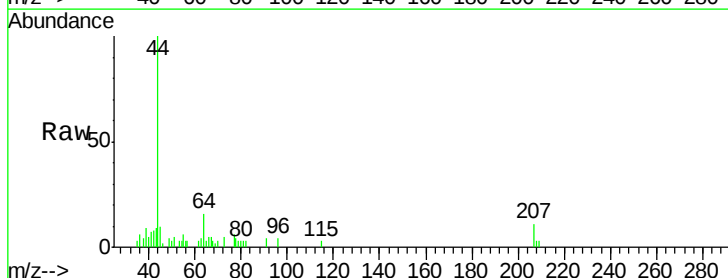
Acq: 29 May 2020 12:51

Tgt Ion: 64 Resp: 1576

Ion Ratio Lower Upper

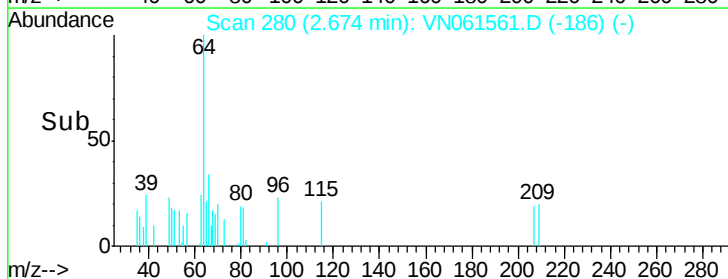
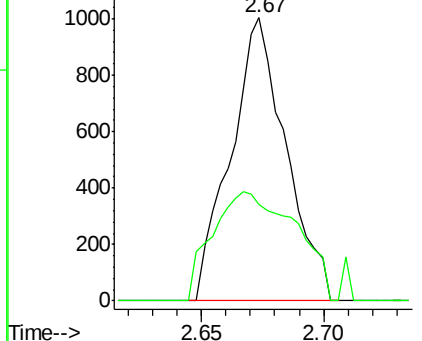
64 100

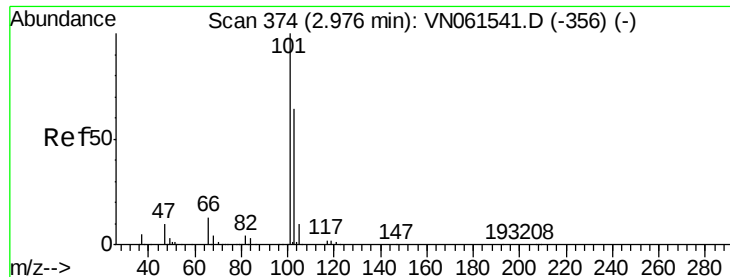
66 33.9 25.6 38.4



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

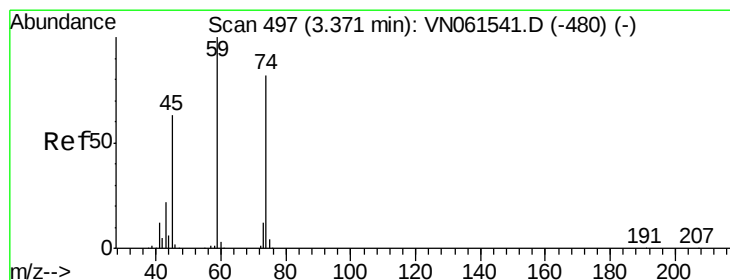
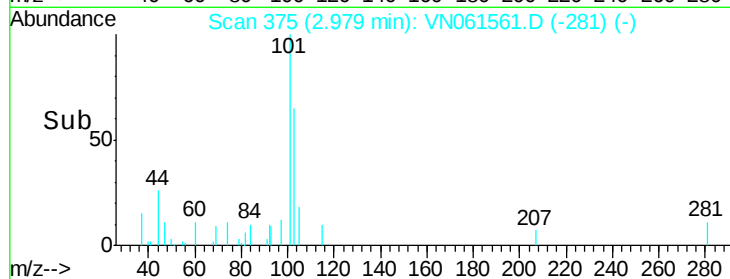
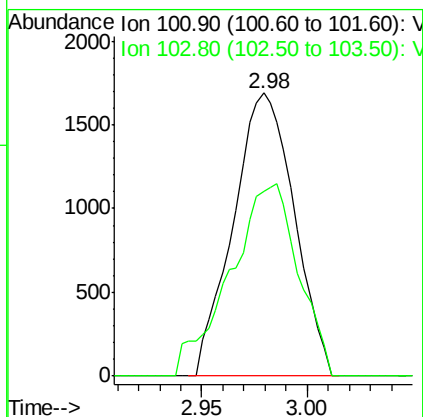
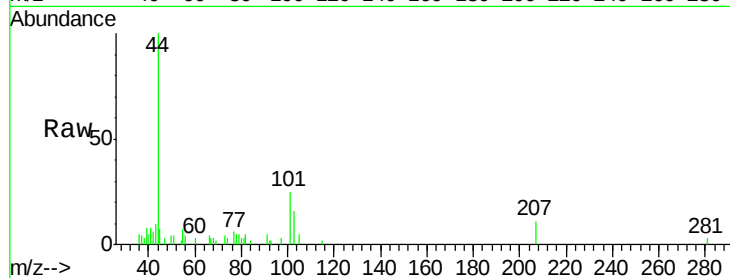
Trichlorofluoromethane
 Concen: 0.555 ug/l
 RT: 2.98 min Scan# 375
 Delta R.T. 0.00 min
 Lab File: VN061561.D
 Acq: 29 May 2020 12:51

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Tot Ion	Ratio	Lower	Upper
101	100		
103	65.2	51.4	77.2

Manual Integrations
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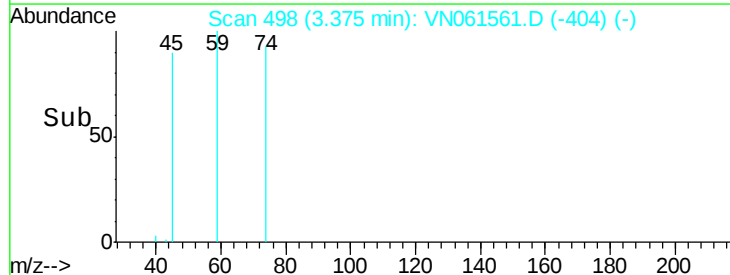
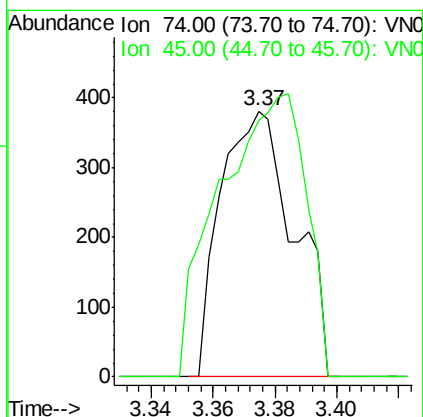
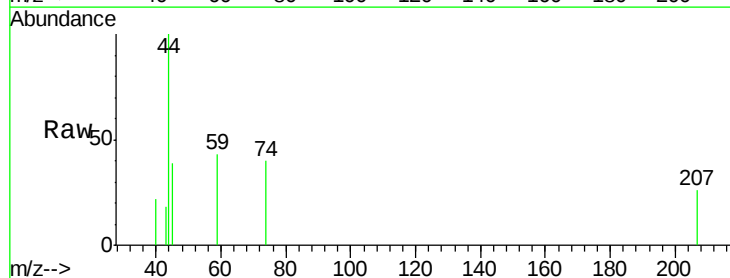
MMDadoda
 6/1/2020 12:30:01 PM

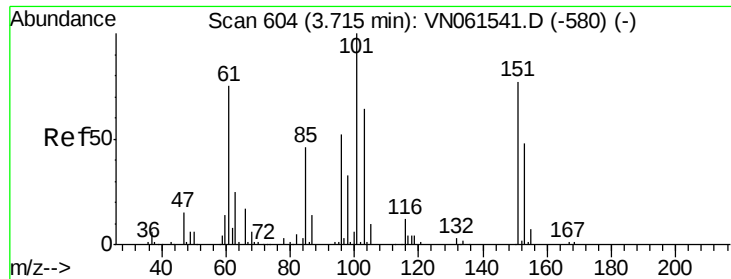


#8

Diethyl Ether
 Concen: 0.335 ug/l
 RT: 3.37 min Scan# 498
 Delta R.T. 0.00 min
 Lab File: VN061561.D
 Acq: 29 May 2020 12:51

Tgt Ion	Ratio	Lower	Upper
74	100		
45	125.8	39.9	119.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.477 ug/l m

RT: 3.70 min Scan# 599

Delta R.T. -0.02 min

Lab File: VN061561.D

Acq: 29 May 2020 12:51

Instrument :

MSVOA_N

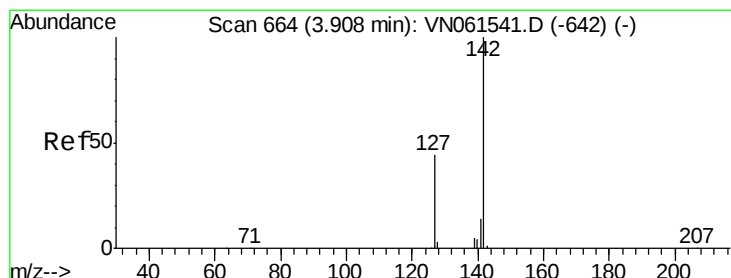
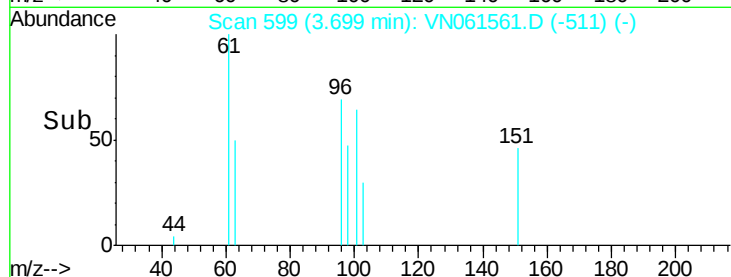
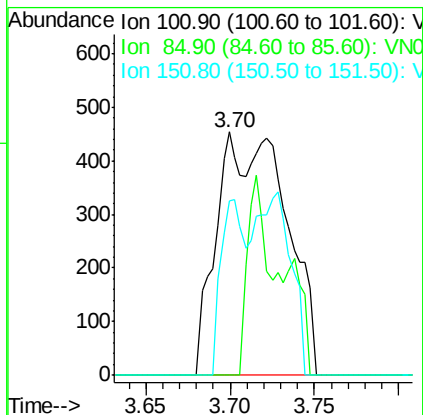
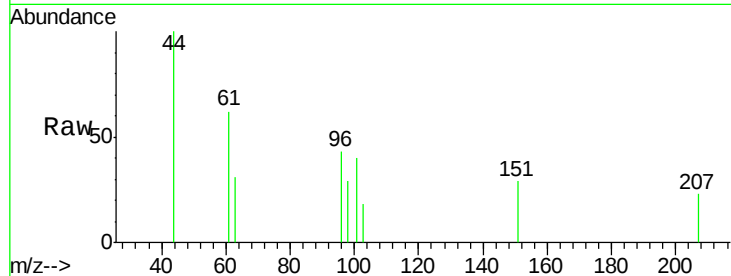
ClientSampleId :

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Tot Ion:	101	Resp:	1296
Ion Ratio	Lower	Upper	
101	100		
85	0.0	35.2	52.8#
151	24.0	61.0	91.6#

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#10

Methyl Iodide

Concen: 0.651 ug/l

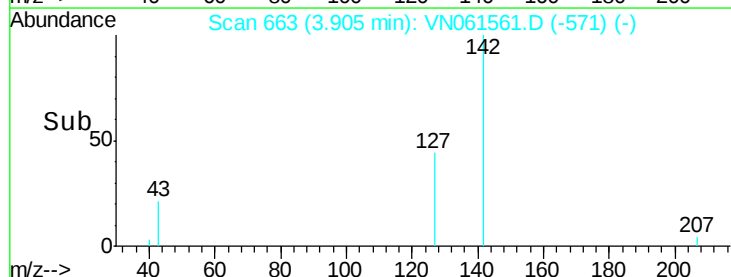
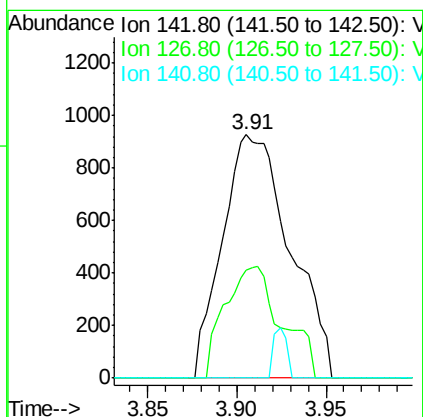
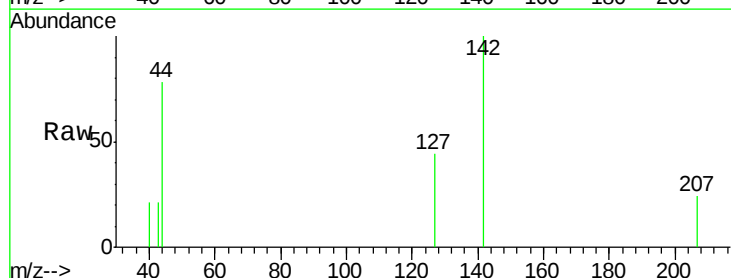
RT: 3.91 min Scan# 663

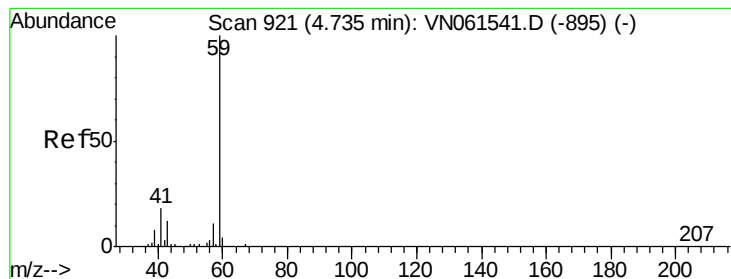
Delta R.T. -0.00 min

Lab File: VN061561.D

Acq: 29 May 2020 12:51

Tgt Ion:	142	Resp:	2454
Ion Ratio	Lower	Upper	
142	100		
127	38.4	35.5	53.3
141	4.0	11.5	17.3#





#11

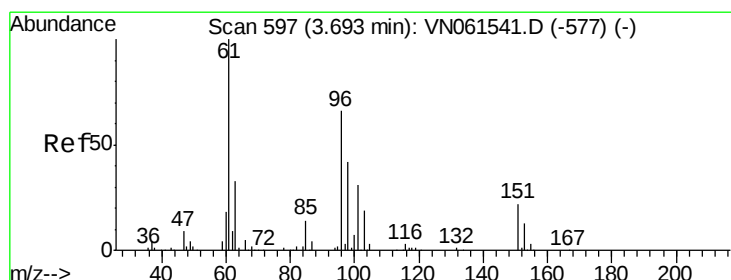
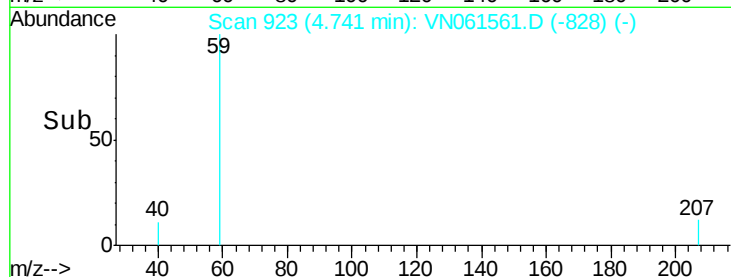
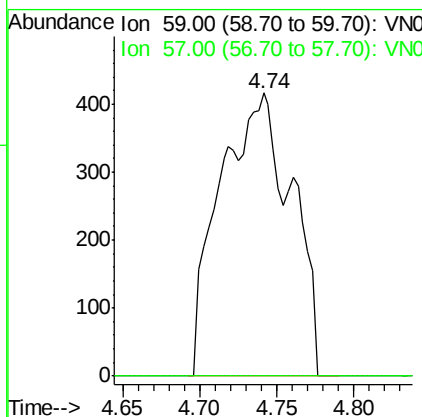
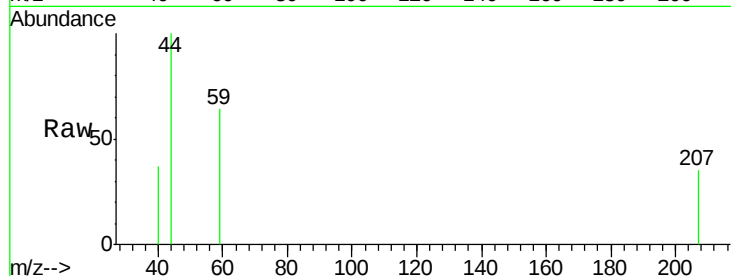
Tert butyl alcohol
 Concen: 2.991 ug/l m
 RT: 4.74 min Scan# 923
 Delta R.T. 0.01 min
 Lab File: VN061561.D
 Acq: 29 May 2020 12:51

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.4	12.6#

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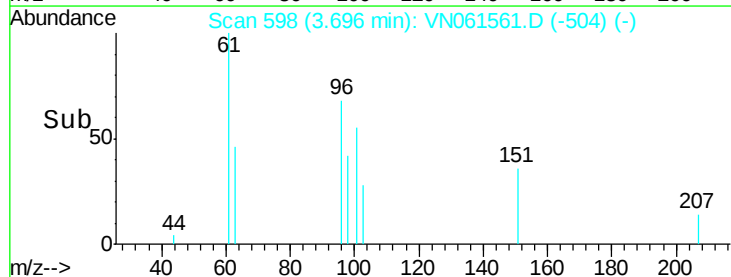
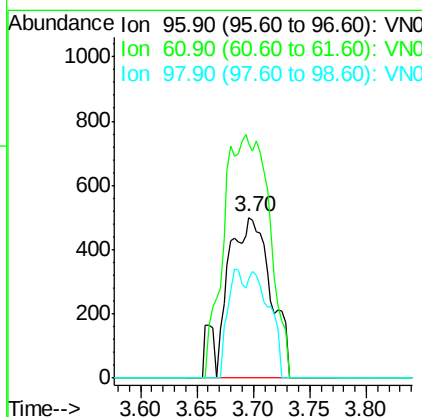
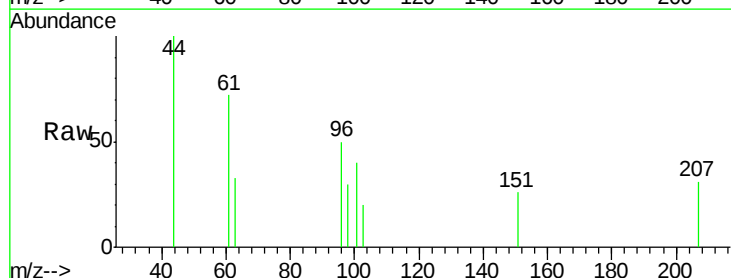
MMDadoda
 6/1/2020 12:30:01 PM

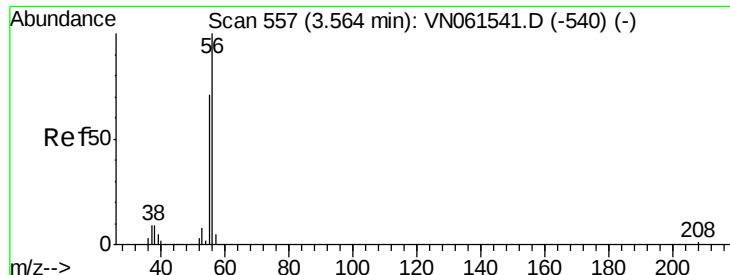


#12

1,1-Dichloroethene
 Concen: 0.469 ug/l m
 RT: 3.70 min Scan# 598
 Delta R.T. 0.00 min
 Lab File: VN061561.D
 Acq: 29 May 2020 12:51

Tgt Ion	Ratio	Lower	Upper
96	100		
61	146.1	120.5	180.7
98	61.3	50.8	76.2





#13

Acrolein

Concen: 4.332 ug/l

RT: 3.57 min Scan# 559

Delta R.T. 0.01 min

Lab File: VN061561.D

Acq: 29 May 2020 12:51

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion: 56 Resp: 747

Ion Ratio Lower Upper

56 100

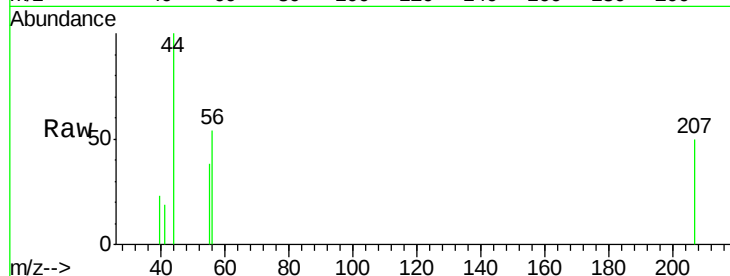
55 74.3 58.0 87.0

Manual Integrations

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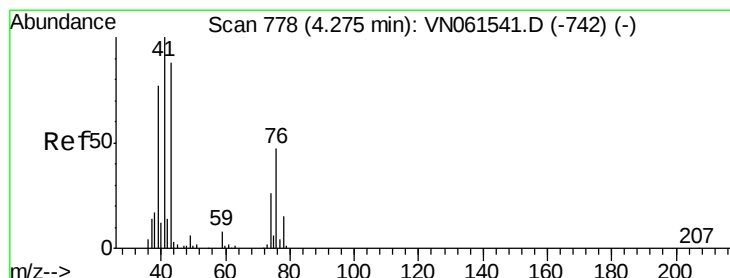
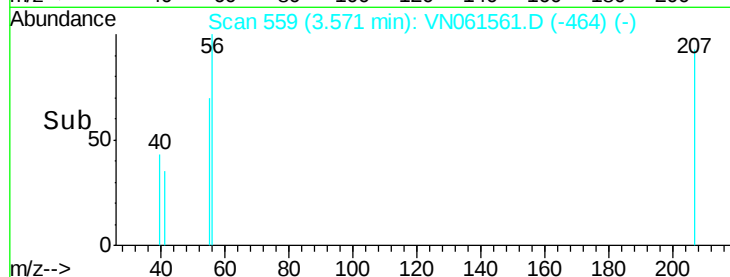
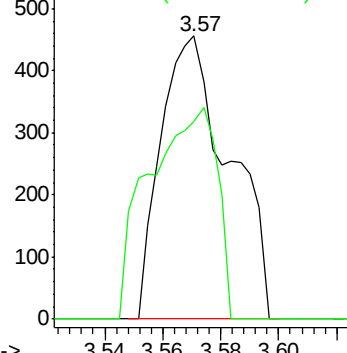
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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 0.416 ug/l

RT: 4.27 min Scan# 778

Delta R.T. 0.00 min

Lab File: VN061561.D

Acq: 29 May 2020 12:51

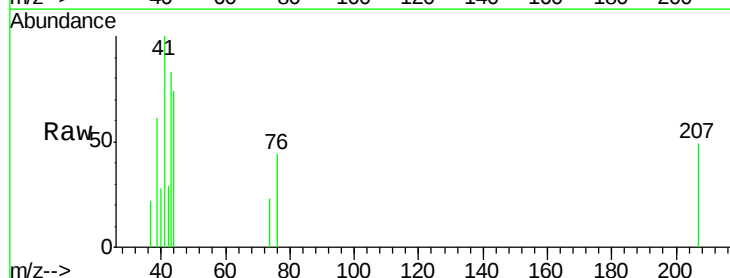
Tgt Ion: 41 Resp: 1576

Ion Ratio Lower Upper

41 100

39 42.1 58.6 88.0#

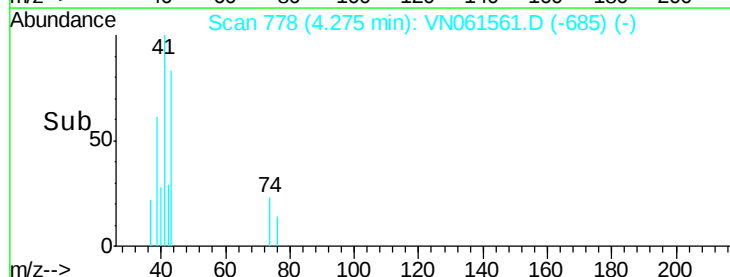
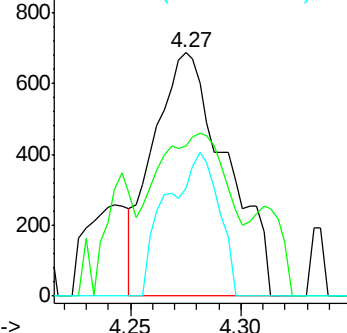
76 41.8 34.2 51.4

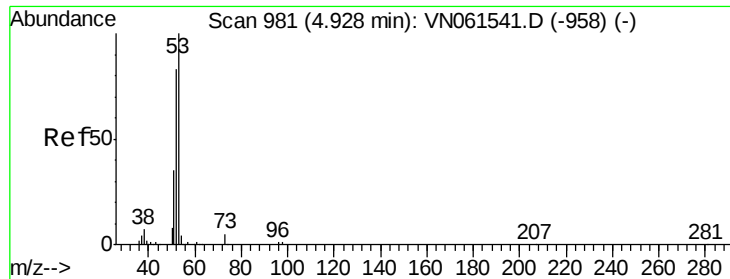


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 1.996 ug/l

RT: 4.94 min Scan# 985

Delta R.T. 0.01 min

Lab File: VN061561.D

Acq: 29 May 2020 12:51

Instrument :

MSVOA_N

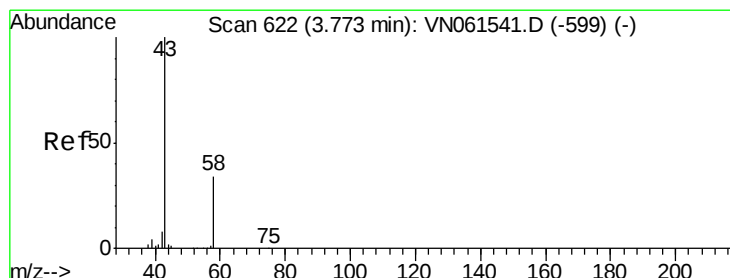
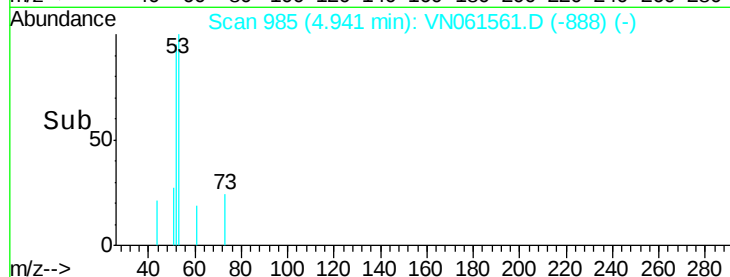
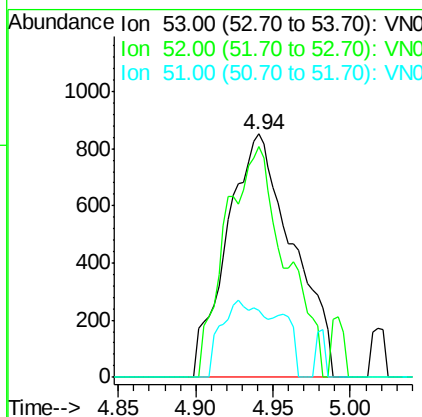
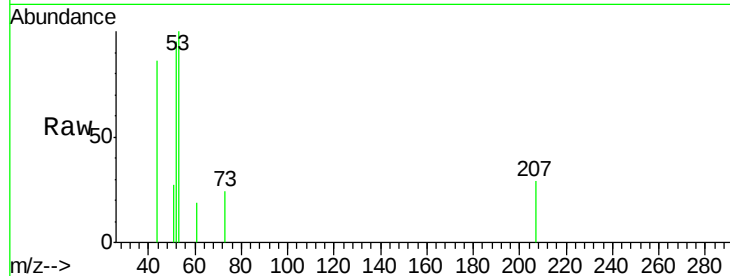
ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion:	53	Resp:	2505
Ion Ratio	Lower	Upper	
53	100		
52	0.0	65.4	98.2#
51	20.2	29.0	43.6#

Manual Integrations
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#16

Acetone

Concen: 3.616 ug/l

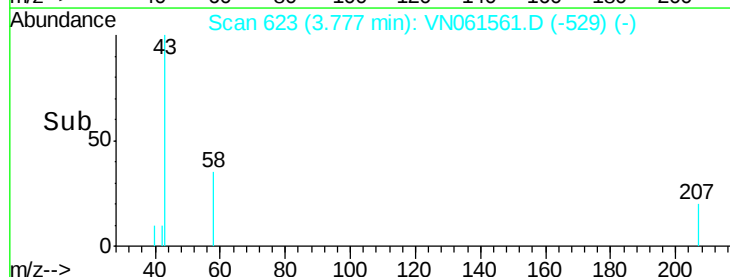
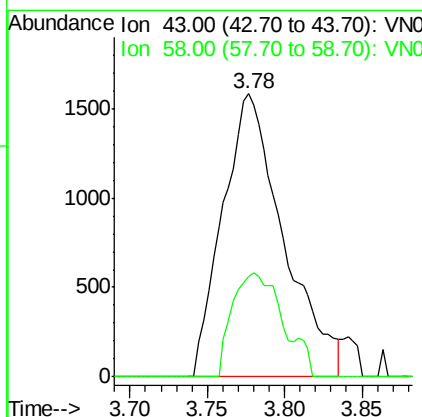
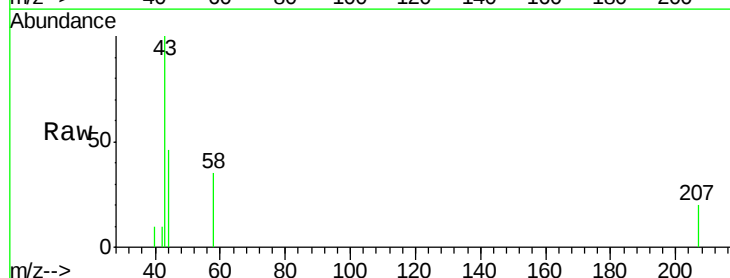
RT: 3.78 min Scan# 623

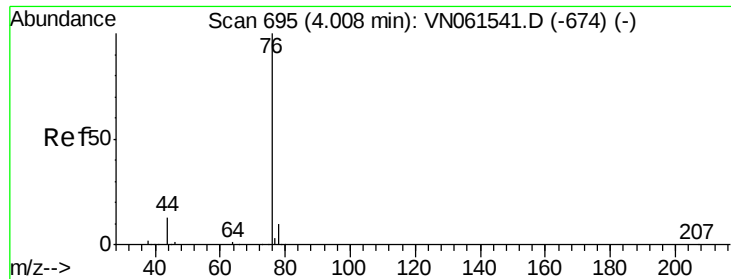
Delta R.T. 0.00 min

Lab File: VN061561.D

Acq: 29 May 2020 12:51

Tgt Ion:	43	Resp:	4324
Ion Ratio	Lower	Upper	
43	100		
58	35.3	27.2	40.8





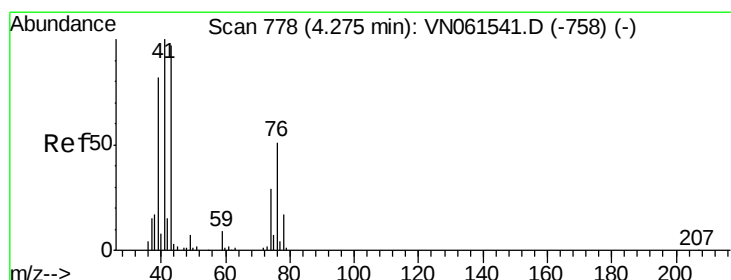
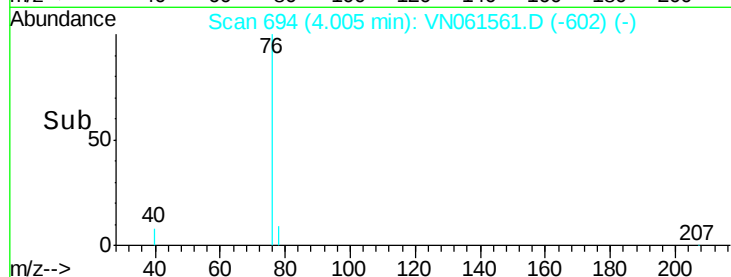
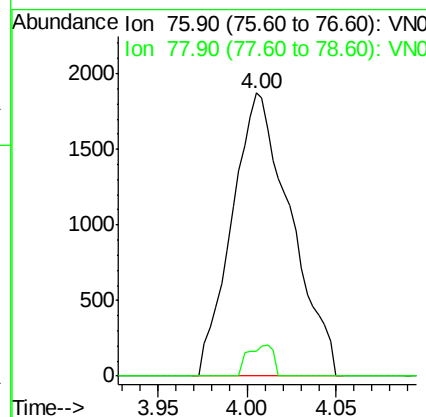
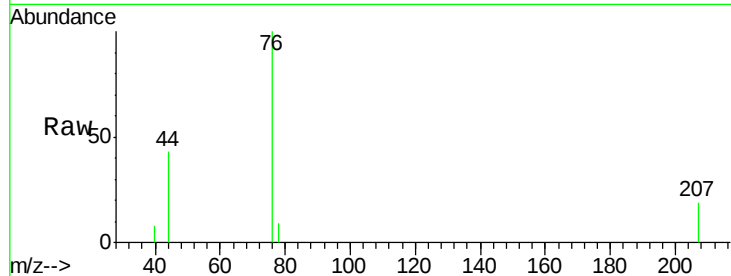
#17
Carbon Disulfide
Concen: 0.671 ug/l
RT: 4.00 min Scan# 694
Delta R.T. -0.00 min
Lab File: VN061561.D
Acq: 29 May 2020 12:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT2-2020DL

Tot Ion: 76 Resp: 4284
Ion Ratio Lower Upper
76 100
78 9.0 7.8 11.6

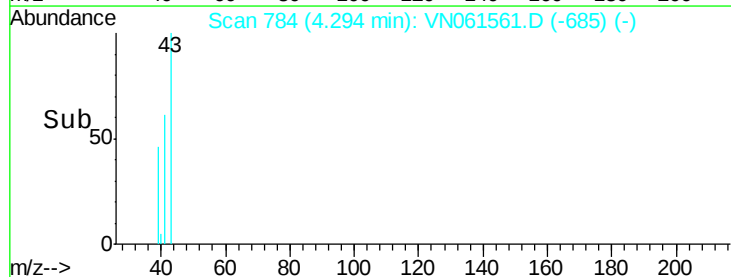
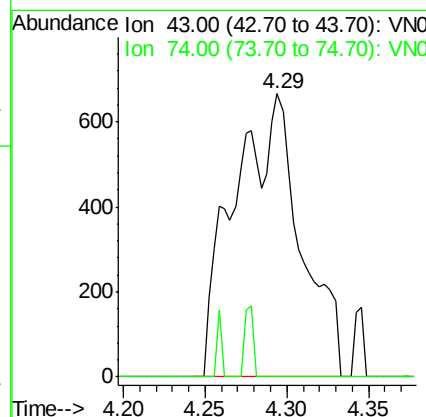
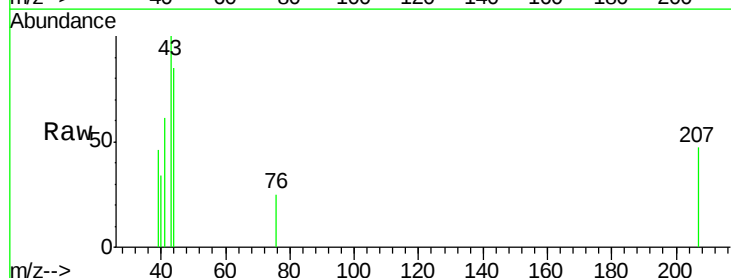
Manual Integrations
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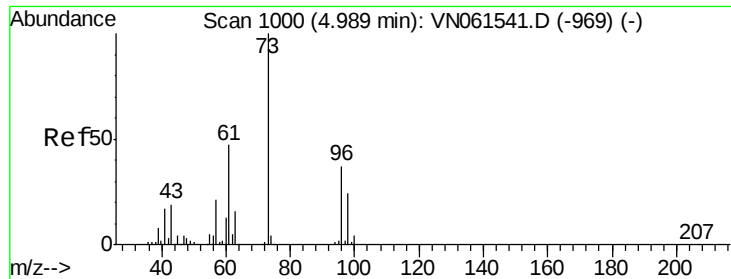
MMDadoda
6/1/2020 12:30:01 PM



#18
Methyl Acetate
Concen: 0.614 ug/l m
RT: 4.29 min Scan# 784
Delta R.T. 0.02 min
Lab File: VN061561.D
Acq: 29 May 2020 12:51

Tgt Ion: 43 Resp: 1878
Ion Ratio Lower Upper
43 100
74 3.4 23.2 34.8#





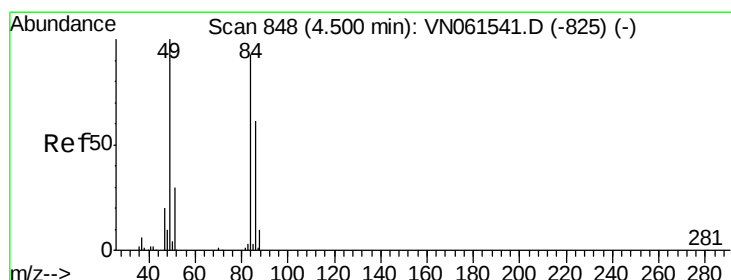
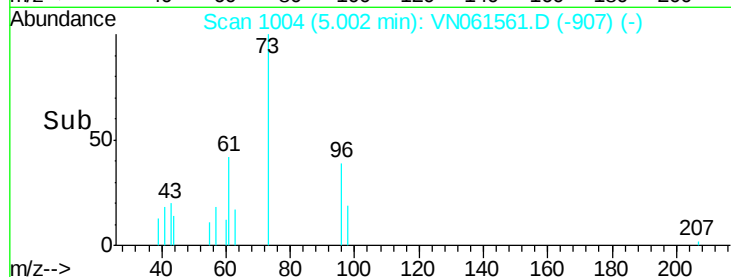
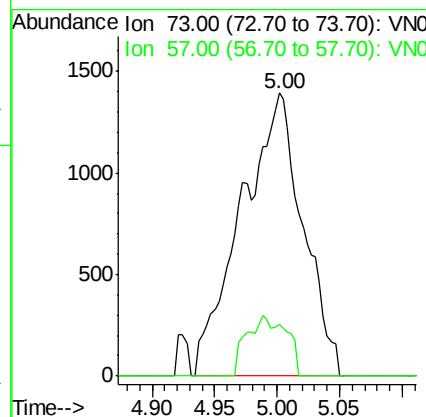
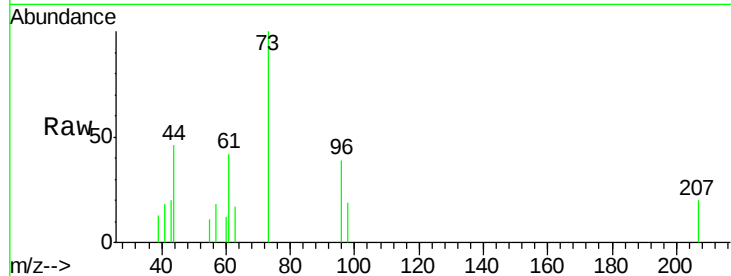
#19
Methvl tert-butvl Ether
Concen: 0.484 ug/l m
RT: 5.00 min Scan# 1004
Delta R.T. 0.01 min
Lab File: VN061561.D
Acq: 29 May 2020 12:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT2-2020DL

Tot Ion: 73 Resp: 4779
Ion Ratio Lower Upper
73 100
57 18.4 16.4 24.6

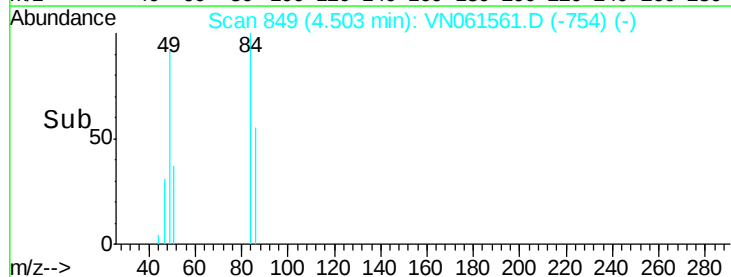
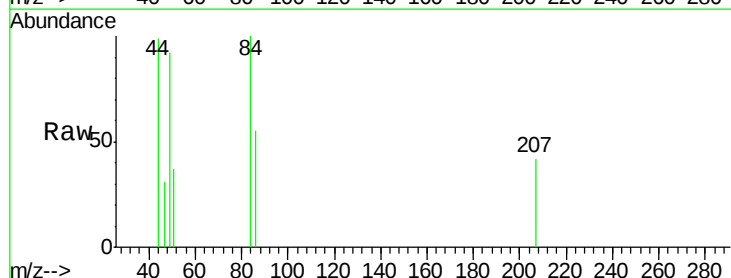
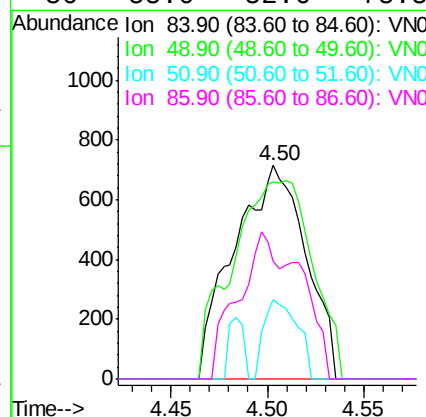
Manual Integrations
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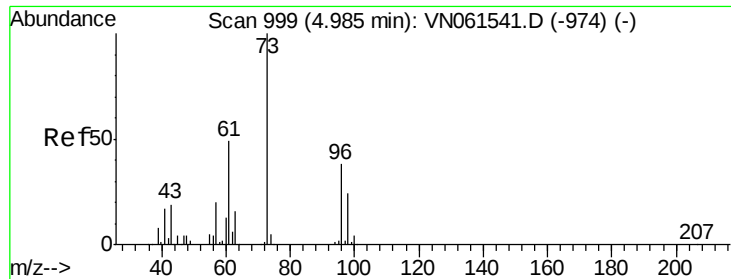
MMDadoda
6/1/2020 12:30:01 PM



#20
Methylene Chloride
Concen: 0.446 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN061561.D
Acq: 29 May 2020 12:51

Tgt Ion: 84 Resp: 1848
Ion Ratio Lower Upper
84 100
49 92.2 85.8 128.8
51 36.9 26.2 39.2
86 55.0 52.6 78.8





#21

trans-1,2-Dichloroethene

Concen: 0.570 ug/l m

RT: 4.98 min Scan# 996

Delta R.T. -0.01 min

Lab File: VN061561.D

Acq: 29 May 2020 12:51

Instrument :

MSVOA_N

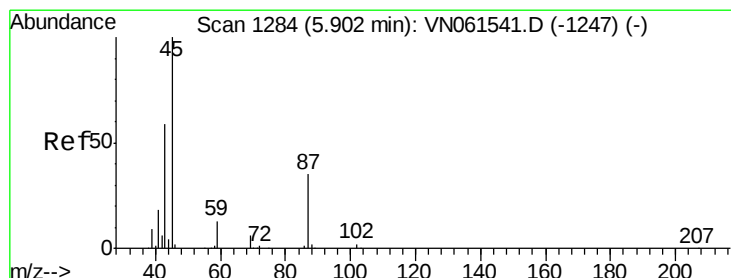
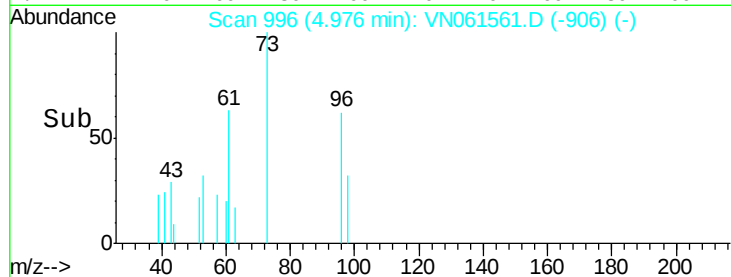
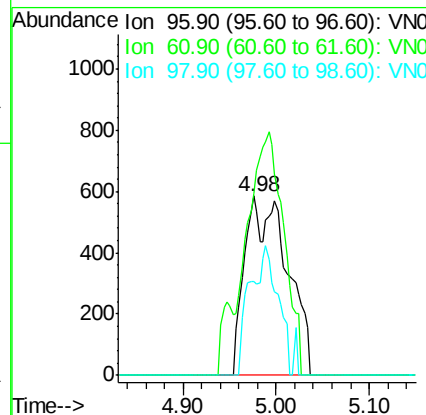
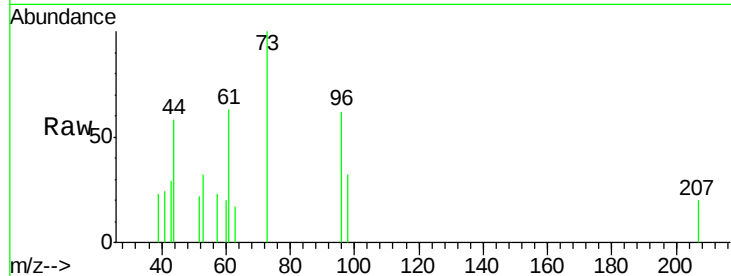
ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
96	100		
61	101.9	101.4	152.0
98	52.5	50.6	76.0

Manual Integrations
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6/1/2020 12:30:01 PM



#22

Diisopropyl ether

Concen: 0.498 ug/l

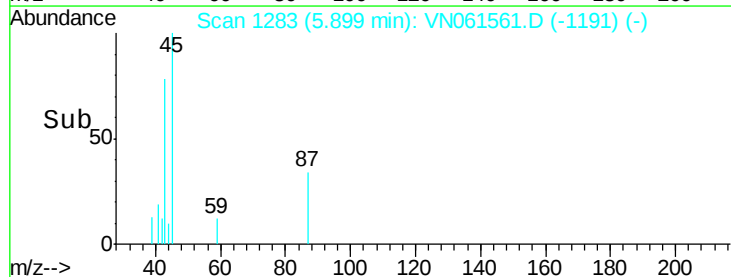
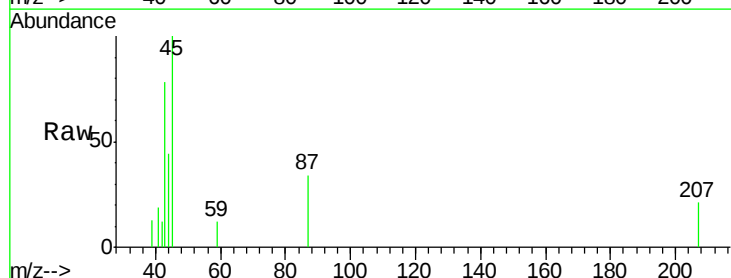
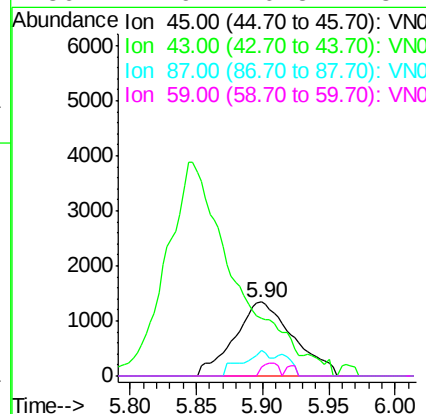
RT: 5.90 min Scan# 1283

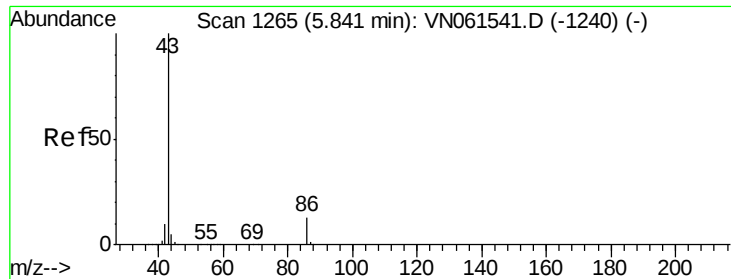
Delta R.T. -0.00 min

Lab File: VN061561.D

Acq: 29 May 2020 12:51

Tgt Ion	Ratio	Lower	Upper
45	100		
43	64.4	47.9	71.9
87	34.1	28.4	42.6
59	11.9	10.5	15.7





#23

Vinyl Acetate

Concen: 2.141 ug/l

RT: 5.84 min Scan# 1266

Delta R.T. 0.00 min

Lab File: VN061561.D

Acq: 29 May 2020 12:51

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion: 43 Resp: 14259

Ion Ratio Lower Upper

43 100

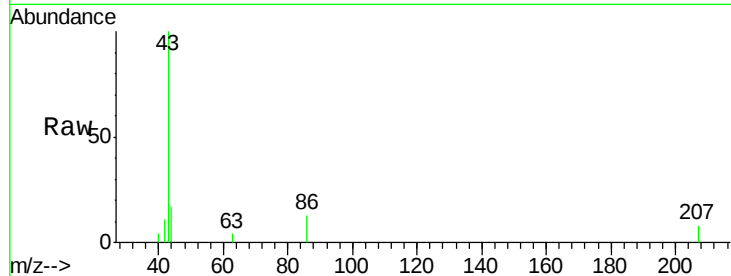
86 13.0 10.6 16.0

Manual Integrations

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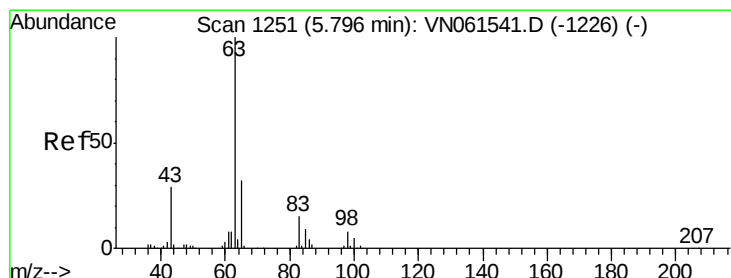
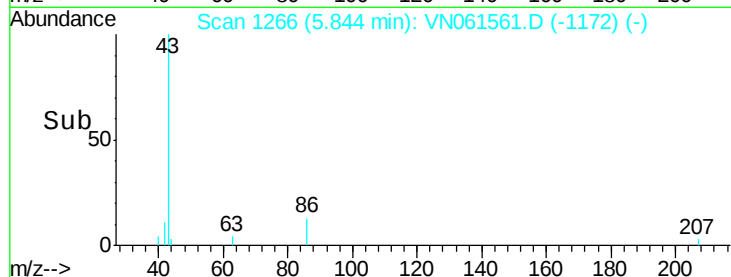
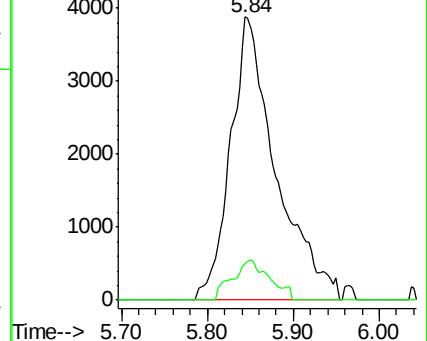
MMDadoda

6/1/2020 12:30:01 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 0.525 ug/l m

RT: 5.79 min Scan# 1249

Delta R.T. -0.01 min

Lab File: VN061561.D

Acq: 29 May 2020 12:51

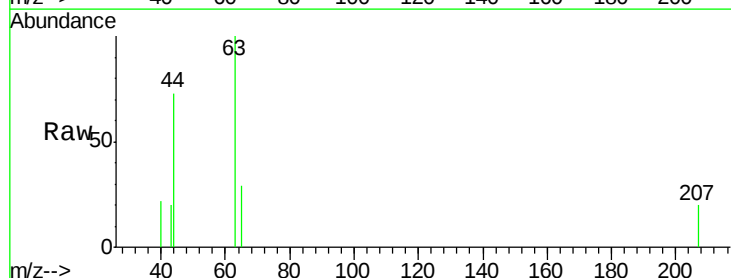
Tgt Ion: 63 Resp: 2783

Ion Ratio Lower Upper

63 100

98 0.0 3.8 11.4#

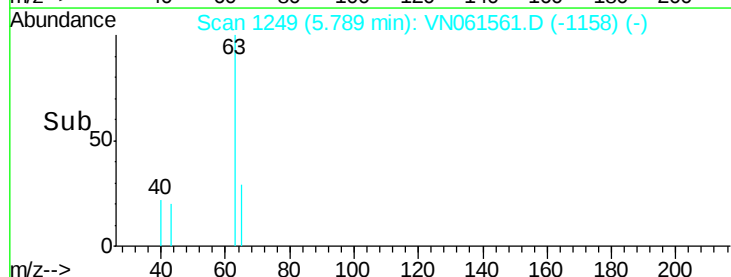
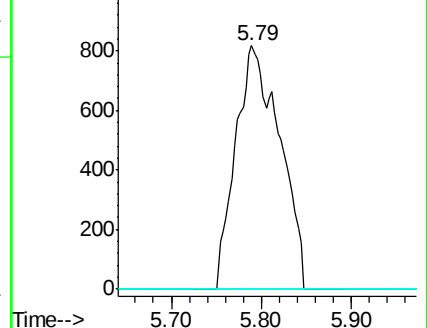
100 0.0 2.5 7.6#

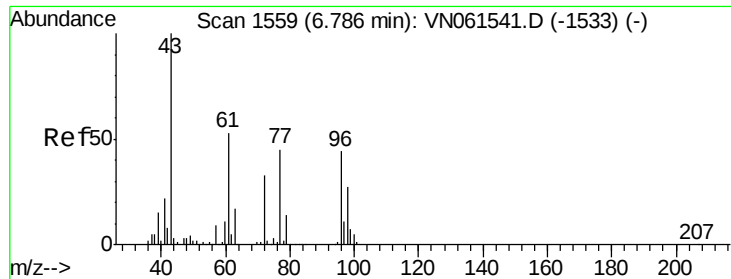


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 2.380 ug/l

RT: 6.79 min Scan# 1561

Delta R.T. 0.01 min

Lab File: VN061561.D

Acq: 29 May 2020 12:51

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion: 43 Resp: 3813

Ion Ratio Lower Upper

43 100

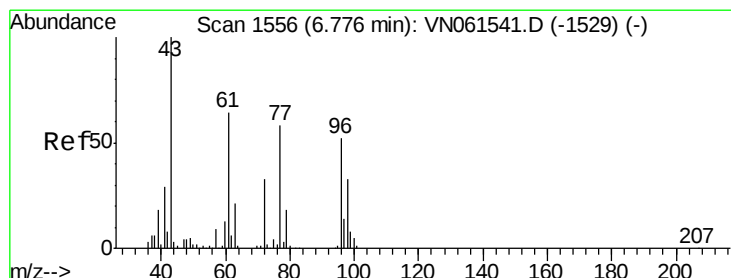
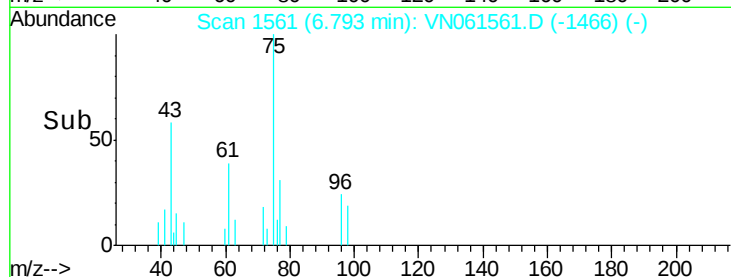
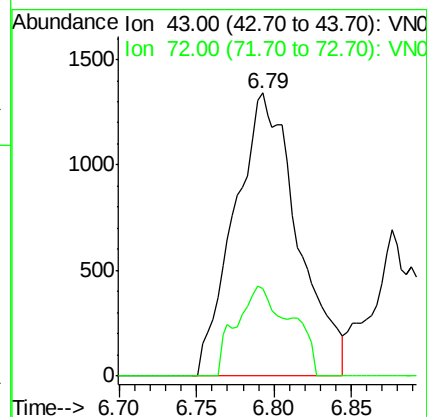
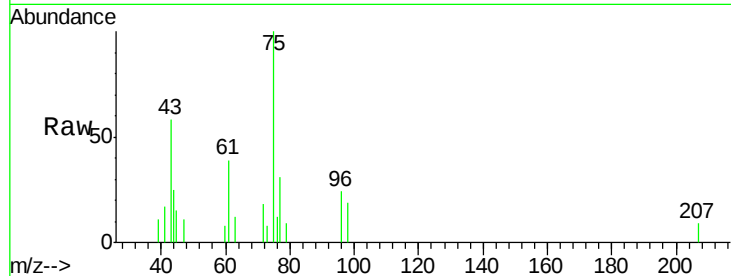
72 31.0 26.0 39.0

Manual Integrations

APPROVED

MMDadoda

6/1/2020 12:30:01 PM



#26

2,2-Dichloropropane

Concen: 0.609 ug/l m

RT: 6.78 min Scan# 1557

Delta R.T. 0.00 min

Lab File: VN061561.D

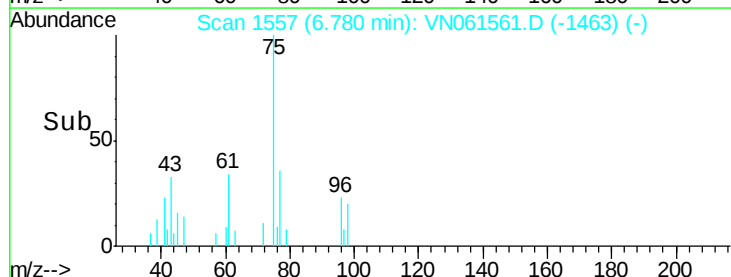
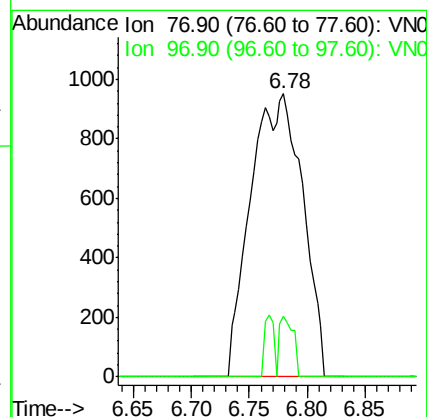
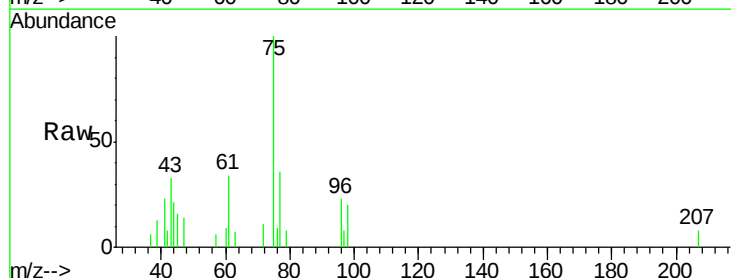
Acq: 29 May 2020 12:51

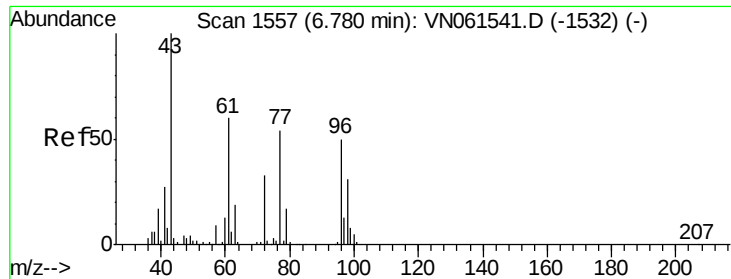
Tgt Ion: 77 Resp: 2954

Ion Ratio Lower Upper

77 100

97 3.8 12.0 36.0#





#27

cis-1,2-Dichloroethene

Concen: 0.445 ug/l

RT: 6.79 min Scan# 1559

Delta R.T. 0.01 min

Lab File: VN061561.D

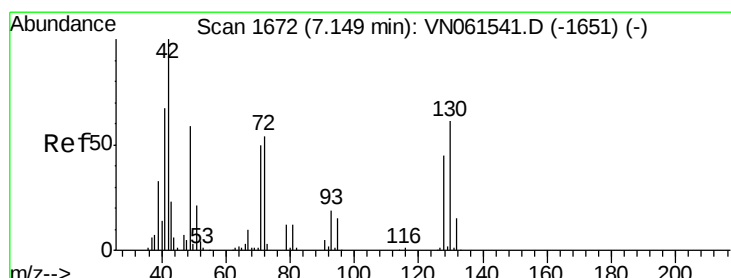
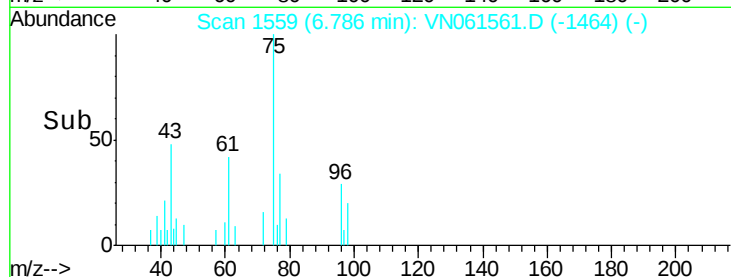
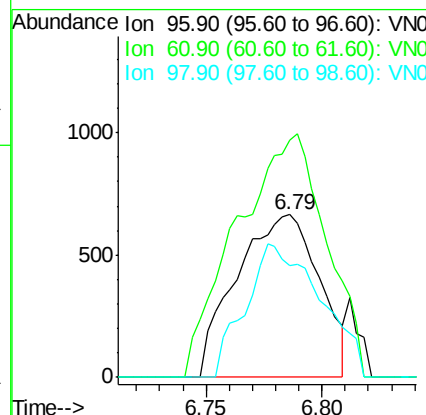
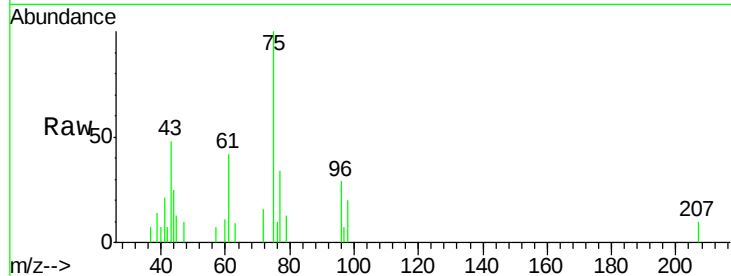
Acq: 29 May 2020 12:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT2-2020DL

Tot Ion	Ratio	Resp	Lower	Upper
96	100	1649		
61	162.3		0.0	252.2
98	74.8		0.0	129.2

Manual Integrations
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MMDadoda
6/1/2020 12:30:01 PM



#28

Bromochloromethane

Concen: 0.538 ug/l

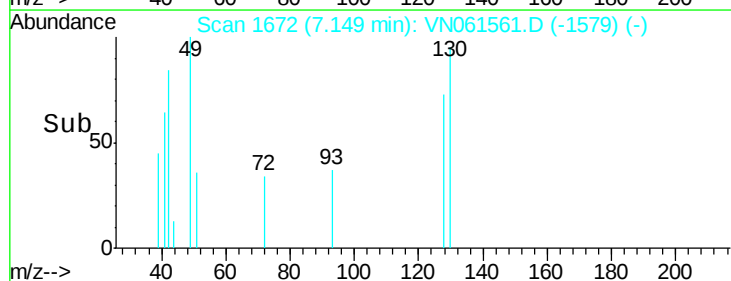
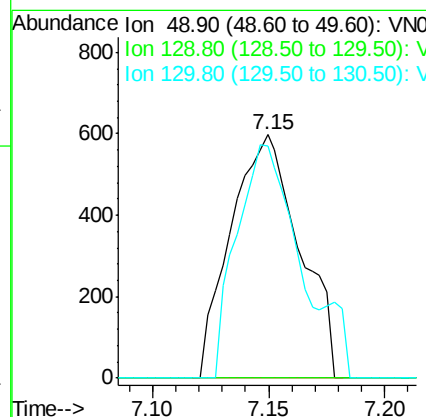
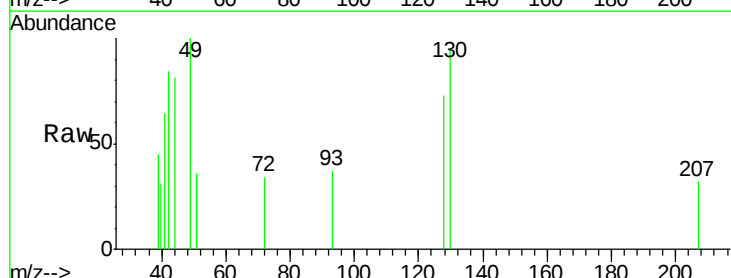
RT: 7.15 min Scan# 1672

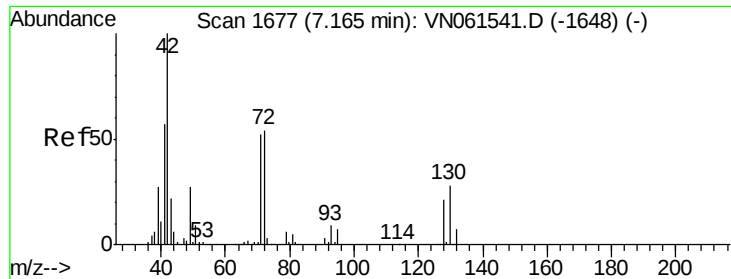
Delta R.T. 0.00 min

Lab File: VN061561.D

Acq: 29 May 2020 12:51

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	1231		
129	0.0		0.0	4.8
130	81.4		78.8	118.2





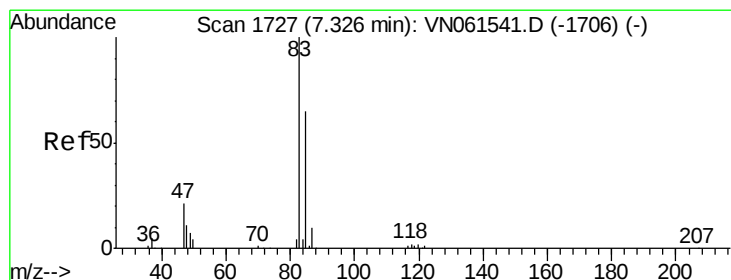
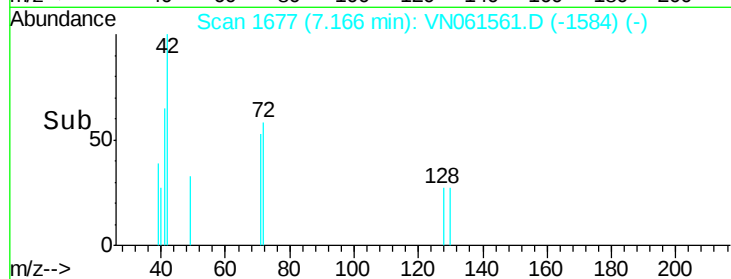
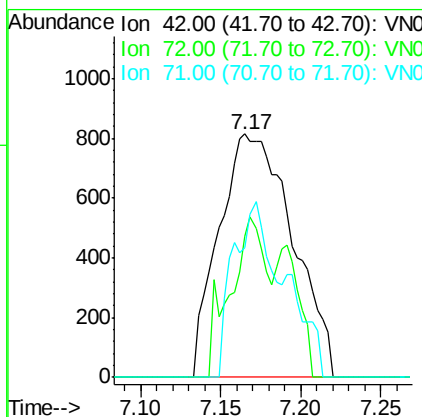
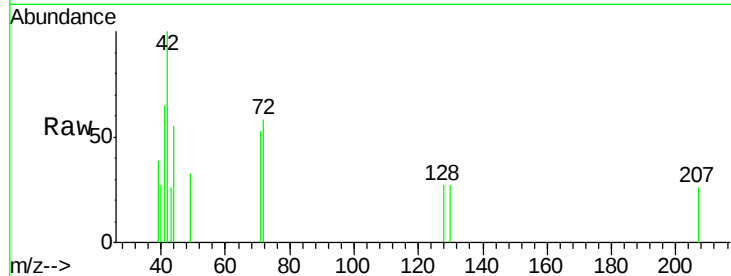
#29
Tetrahydrofuran
Concen: 2.442 ug/l
RT: 7.17 min Scan# 1677
Delta R.T. 0.00 min
Lab File: VN061561.D
Acq: 29 May 2020 12:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
42	100		
72	32.1	43.6	65.4#
71	37.4	41.2	61.8#

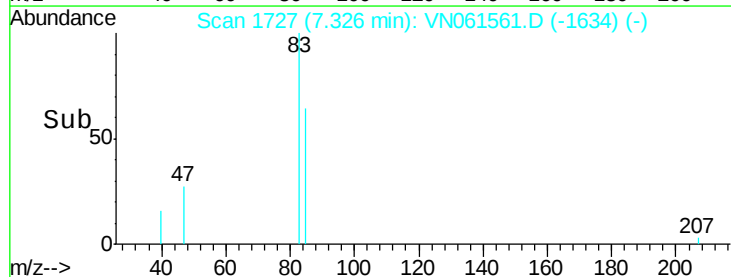
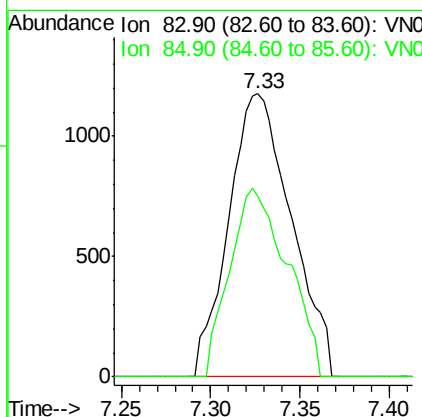
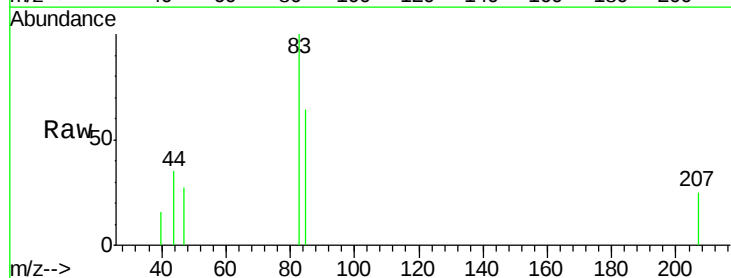
Manual Integrations
APPROVED

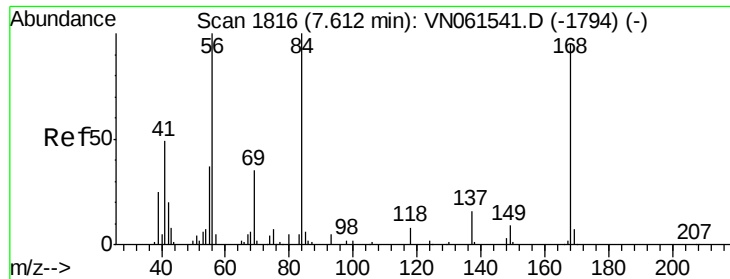
MMDadoda
6/1/2020 12:30:01 PM



#30
Chloroform
Concen: 0.492 ug/l
RT: 7.33 min Scan# 1727
Delta R.T. 0.00 min
Lab File: VN061561.D
Acq: 29 May 2020 12:51

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.0	51.7	77.5





#31

Cyclohexane

Concen: 1.632 ug/l

RT: 7.62 min Scan# 1818

Delta R.T. 0.01 min

Lab File: VN061561.D

Acq: 29 May 2020 12:51

Instrument :

MSVOA_N

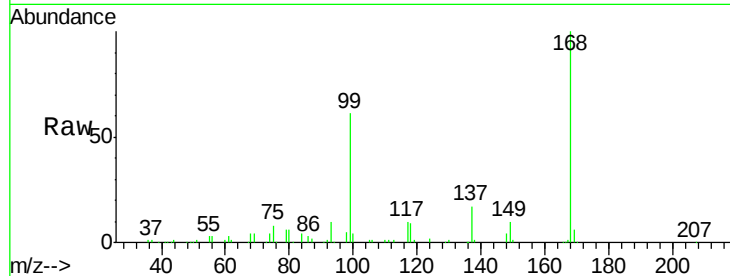
ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion:	56	Resp:	7778
Ion	Ratio	Lower	Upper
56	100		
69	137.9	27.8	41.8#
84	129.7	79.9	119.9#

Manual Integrations
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MMDadoda
6/1/2020 12:30:01 PM

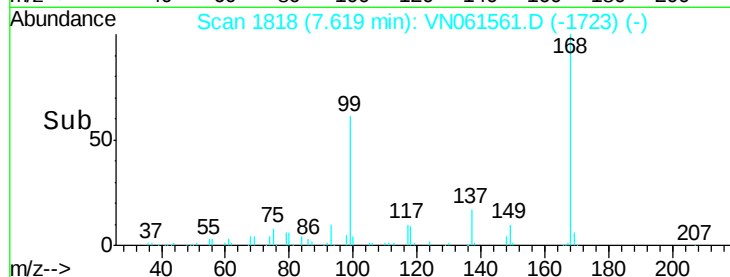


Abundance Ion 56.00 (55.70 to 56.70): VN061561.D (-1794) (-)

Ion 69.00 (68.70 to 69.70): VN061561.D (-1794) (-)

Ion 84.00 (83.70 to 84.70): VN061561.D (-1794) (-)

Time-->

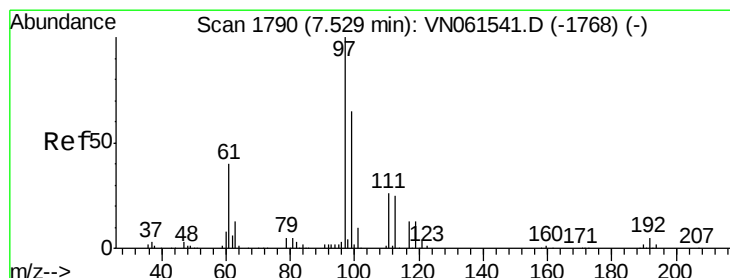


Abundance Ion 56.00 (55.70 to 56.70): VN061561.D (-1794) (-)

Ion 69.00 (68.70 to 69.70): VN061561.D (-1794) (-)

Ion 84.00 (83.70 to 84.70): VN061561.D (-1794) (-)

Time-->



#32

1,1,1-Trichloroethane

Concen: 0.457 ug/l

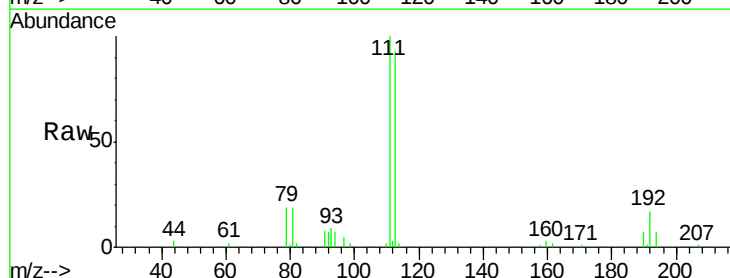
RT: 7.52 min Scan# 1788

Delta R.T. -0.01 min

Lab File: VN061561.D

Acq: 29 May 2020 12:51

Tgt Ion:	97	Resp:	2443
Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.4	77.0#
61	23.0	31.4	47.0#

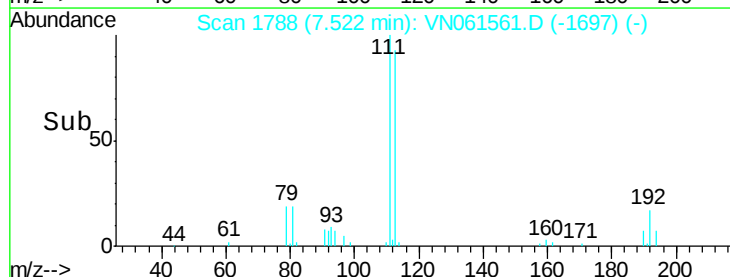


Abundance Ion 96.90 (96.60 to 97.60): VN061561.D (-1697) (-)

Ion 98.90 (98.60 to 99.60): VN061561.D (-1697) (-)

Ion 60.90 (60.60 to 61.60): VN061561.D (-1697) (-)

Time-->

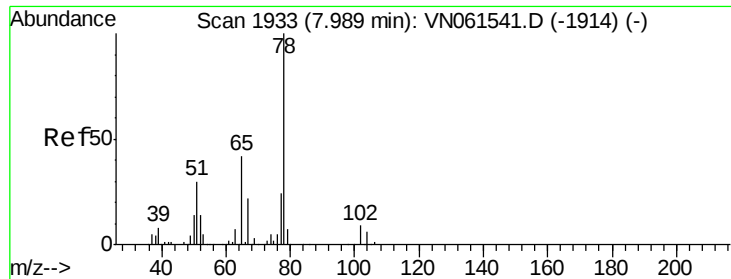


Abundance Ion 96.90 (96.60 to 97.60): VN061561.D (-1697) (-)

Ion 98.90 (98.60 to 99.60): VN061561.D (-1697) (-)

Ion 60.90 (60.60 to 61.60): VN061561.D (-1697) (-)

Time-->



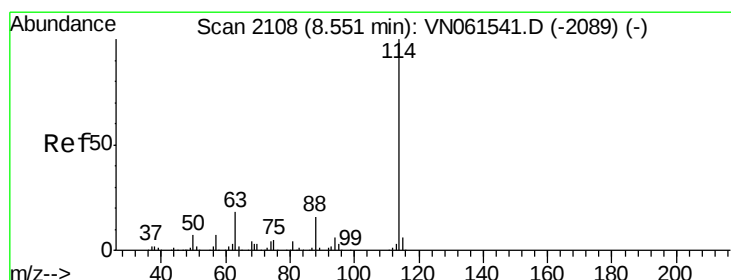
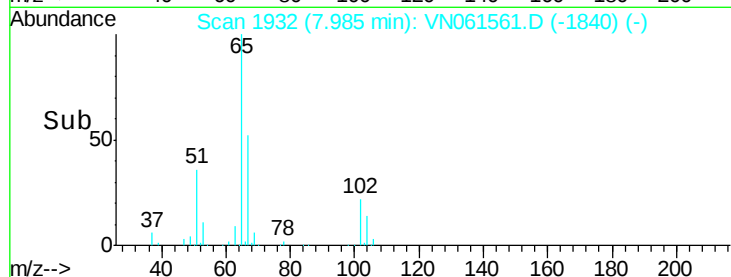
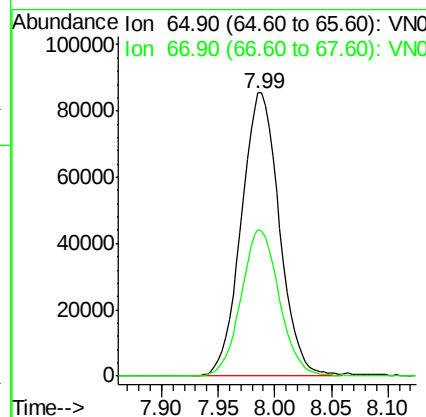
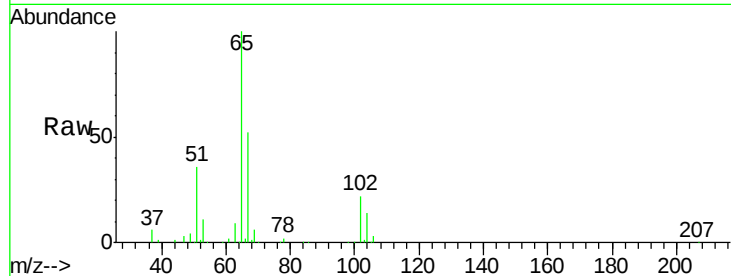
#33
 1,2-Dichloroethane-d4
 Concen: 59.433 ug/l
 RT: 7.99 min Scan# 1932
 Delta R.T. -0.00 min
 Lab File: VN061561.D
 Acq: 29 May 2020 12:51

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT2-2020DL

Tot Ion	Ratio	Resp	Lower	Upper
65	100	200954		
67	51.7	0.0	104.8	

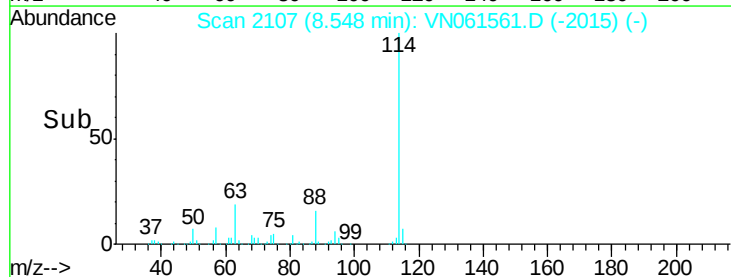
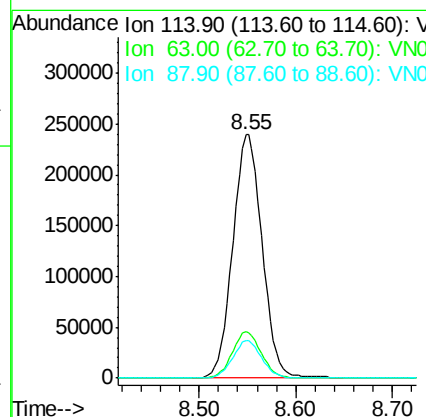
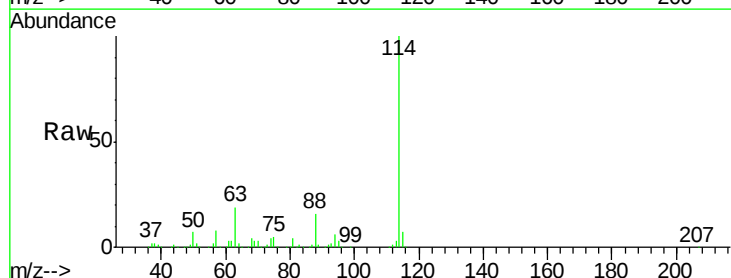
Manual Integrations
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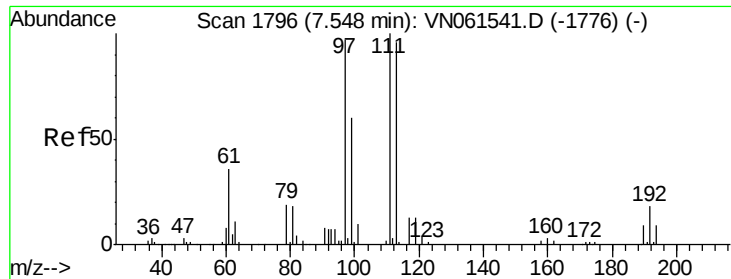
MMDadoda
 6/1/2020 12:30:01 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2107
 Delta R.T. -0.00 min
 Lab File: VN061561.D
 Acq: 29 May 2020 12:51

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	503977		
63	19.2	0.0	35.8	
88	15.7	0.0	31.0	





#35

Dibromofluoromethane

Concen: 60.601 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VN061561.D

Acq: 29 May 2020 12:51

Instrument :

MSVOA_N

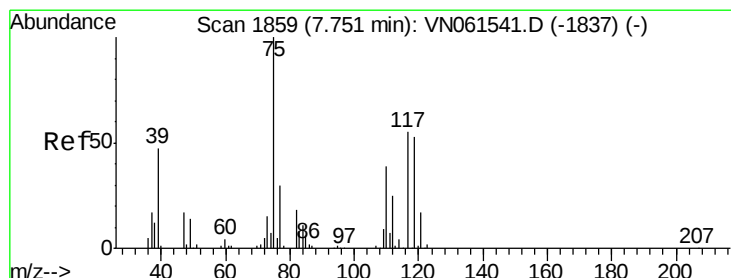
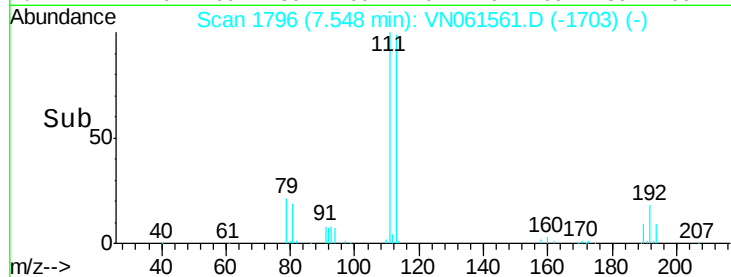
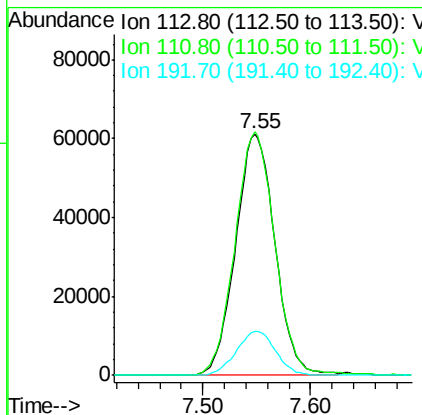
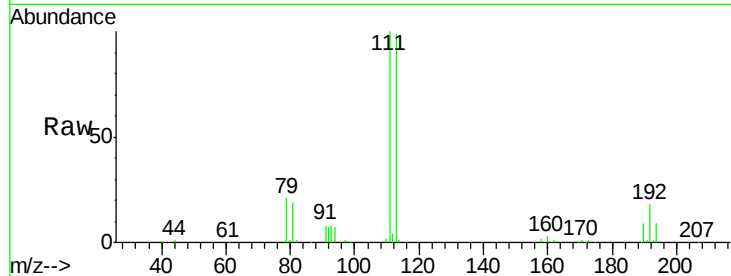
ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion:	113	Resp:	154932
Ion	Ratio	Lower	Upper
113	100		
111	101.9	83.4	125.0
192	18.2	15.4	23.2

Manual Integrations
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6/1/2020 12:30:01 PM



#36

1,1-Dichloropropene

Concen: 0.455 ug/l

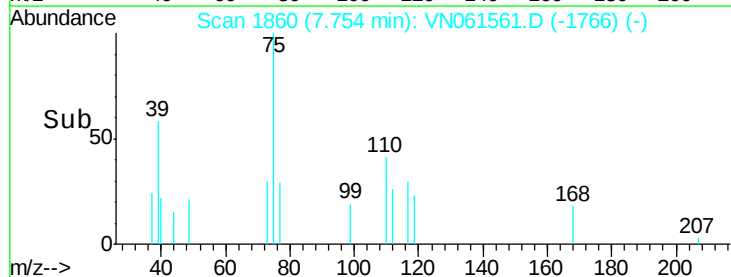
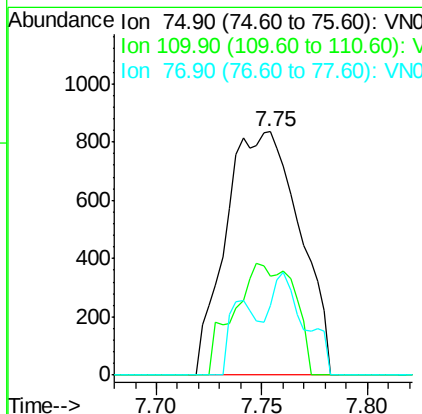
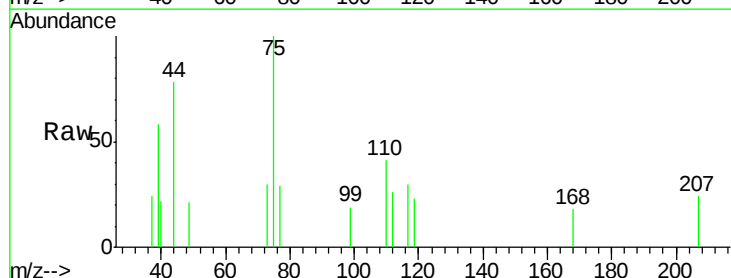
RT: 7.75 min Scan# 1860

Delta R.T. 0.00 min

Lab File: VN061561.D

Acq: 29 May 2020 12:51

Tgt Ion:	75	Resp:	2030
Ion	Ratio	Lower	Upper
75	100		
110	37.3	19.5	58.5
77	19.4	24.7	37.1#





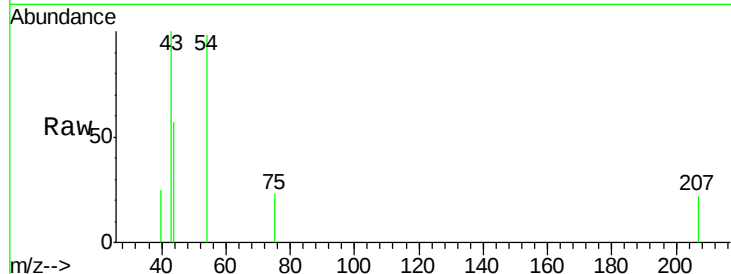
#37
Ethyl Acetate
Concen: 0.480 ug/l m
RT: 6.88 min Scan# 1587
Delta R.T. -0.01 min
Lab File: VN061561.D
Acq: 29 May 2020 12:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	12.2	18.4#
70	0.0	9.4	14.2#

Manual Integrations
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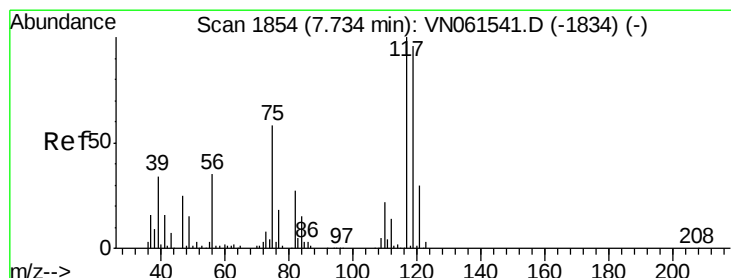
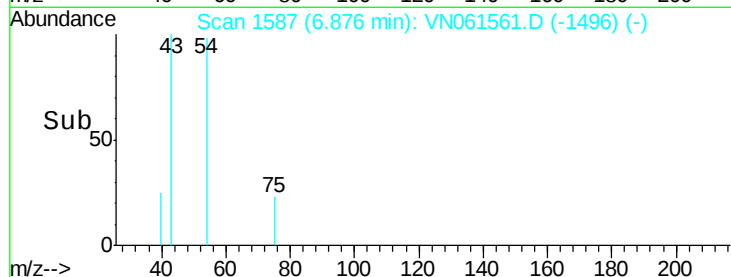
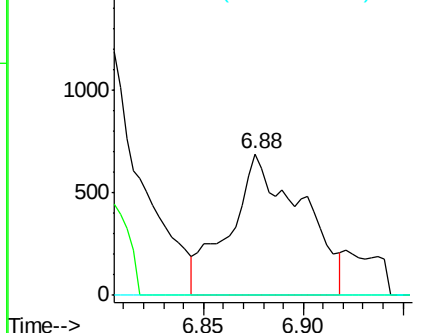
MMDadoda
6/1/2020 12:30:01 PM



Abundance Ion 43.00 (42.70 to 43.70): VN061541.D (-1576) (-)

Ion 60.90 (60.60 to 61.60): VN061541.D (-1576) (-)

Ion 70.00 (69.70 to 70.70): VN061541.D (-1576) (-)



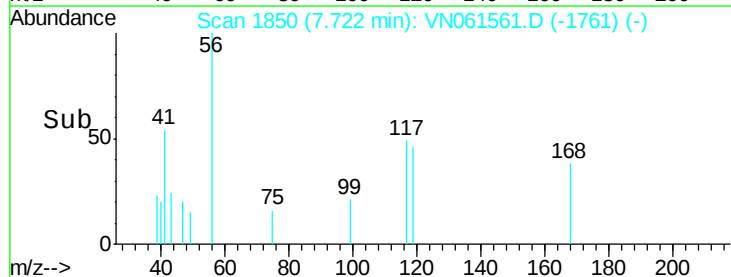
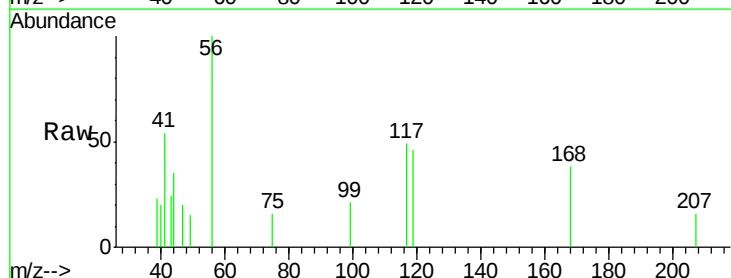
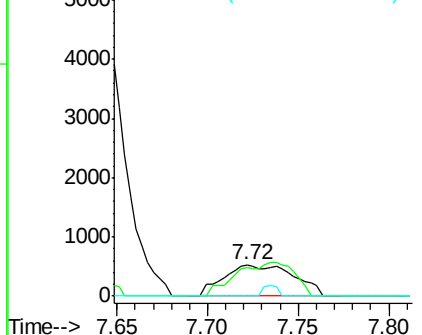
#38
Carbon Tetrachloride
Concen: 0.328 ug/l m
RT: 7.72 min Scan# 1850
Delta R.T. -0.01 min
Lab File: VN061561.D
Acq: 29 May 2020 12:51

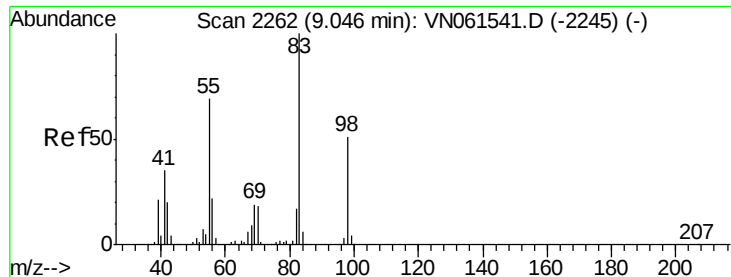
Tgt Ion	Ratio	Lower	Upper
117	100		
119	92.5	76.5	114.7
121	0.0	24.1	36.1#

Abundance Ion 116.80 (116.50 to 117.50): VN061541.D (-1834) (-)

Ion 118.80 (118.50 to 119.50): VN061541.D (-1834) (-)

Ion 120.80 (120.50 to 121.50): VN061541.D (-1834) (-)





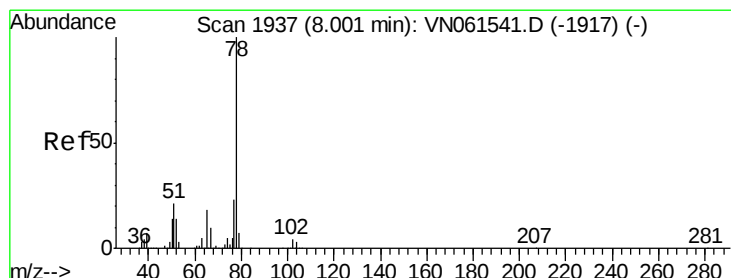
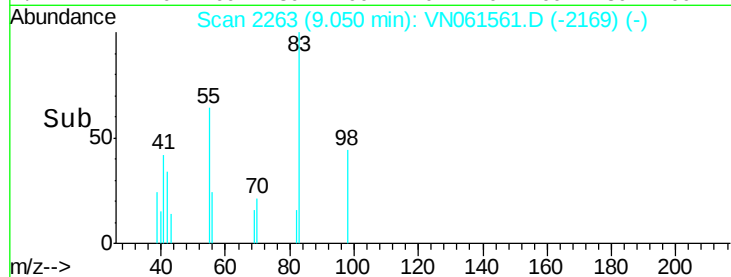
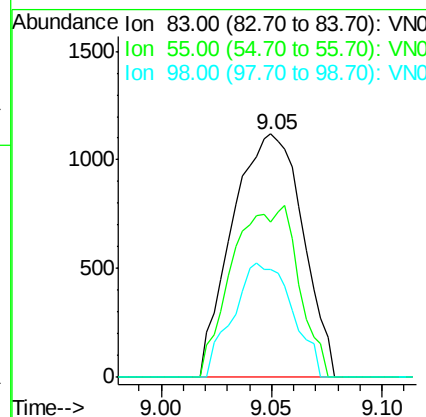
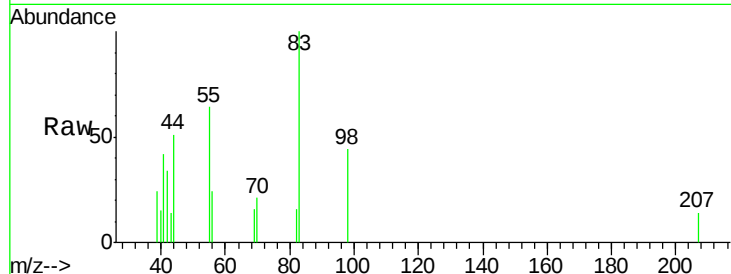
#39
Methvlcvclohexane
Concen: 0.450 ug/l
RT: 9.05 min Scan# 2263
Delta R.T. 0.00 min
Lab File: VN061561.D
Acq: 29 May 2020 12:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
83	100		
55	63.9	54.9	82.3
98	44.2	41.0	61.4

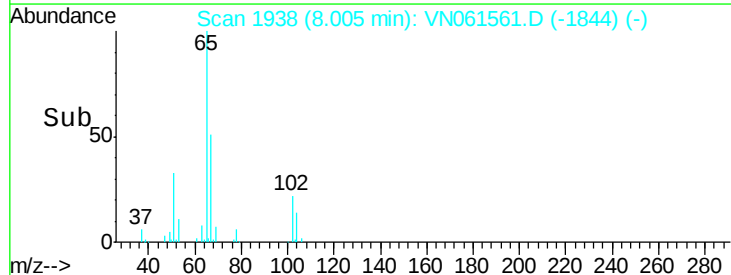
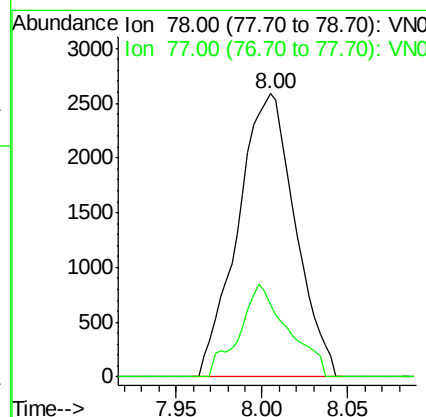
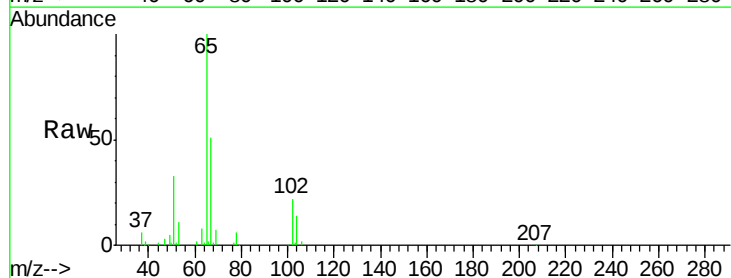
Manual Integrations
APPROVED

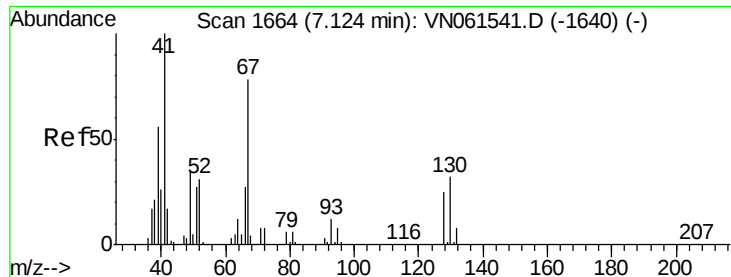
MMDadoda
6/1/2020 12:30:01 PM



#40
Benzene
Concen: 0.435 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN061561.D
Acq: 29 May 2020 12:51

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.4	18.6	28.0





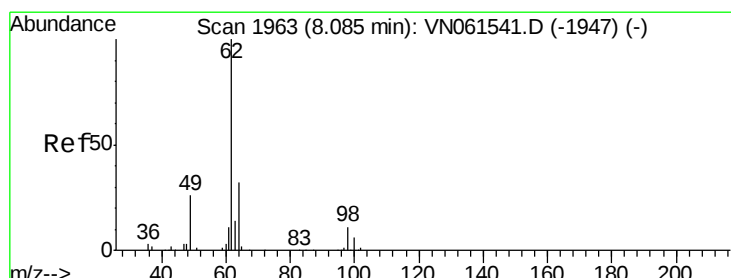
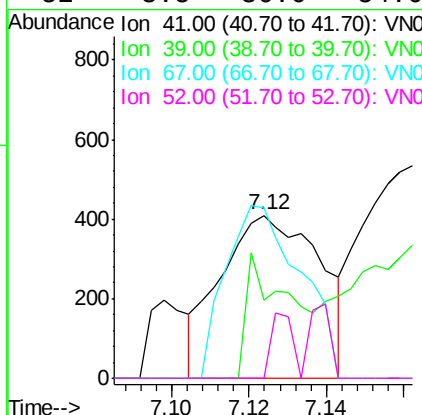
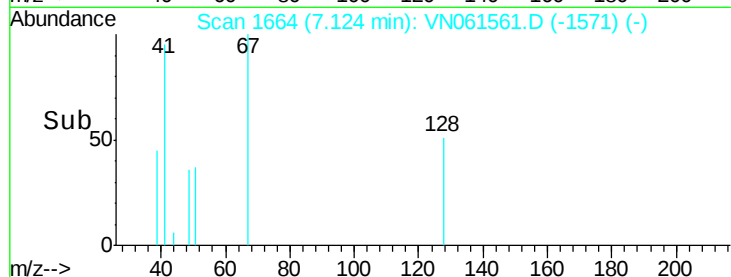
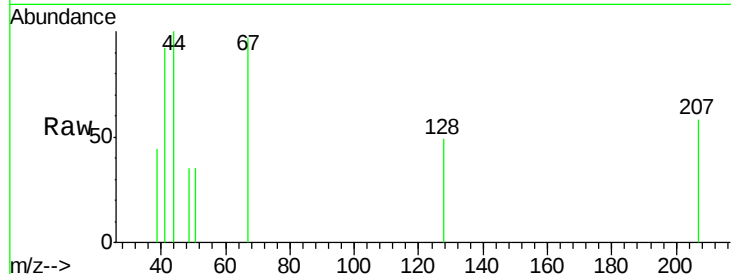
#41
Methacrylonitrile
Concen: 0.444 ug/l
RT: 7.12 min Scan# 1664
Delta R.T. 0.00 min
Lab File: VN061561.D
Acq: 29 May 2020 12:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT2-2020DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		731		
39	34.1	53.8	80.6#		
67	79.9	91.1	136.7#		
52	8.5	36.0	54.0#		

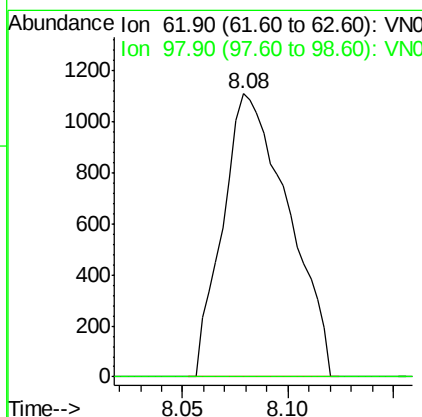
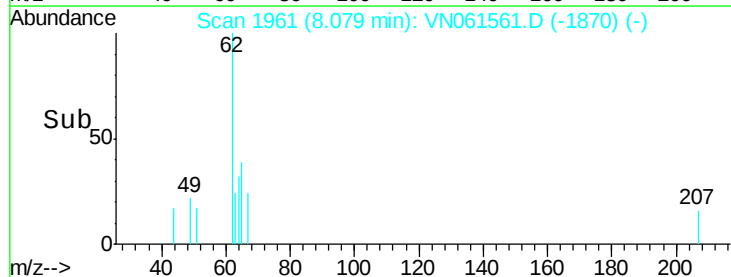
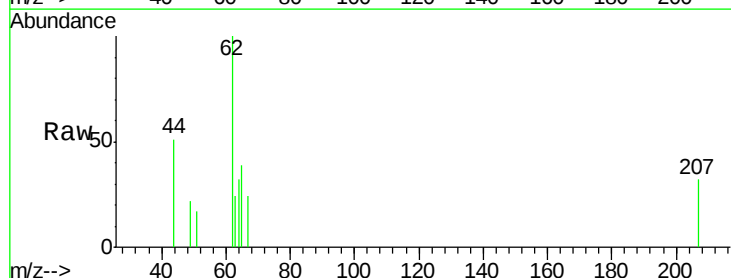
Manual Integrations
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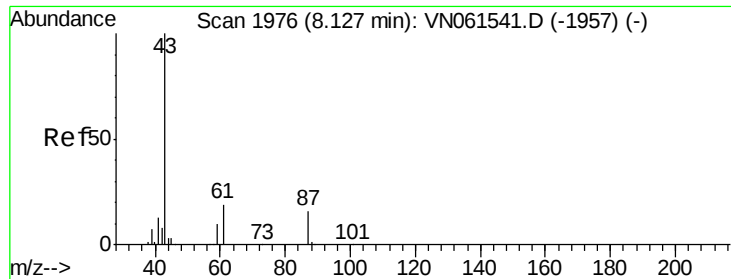
MMDadoda
6/1/2020 12:30:01 PM



#42
1,2-Dichloroethane
Concen: 0.520 ug/l
RT: 8.08 min Scan# 1961
Delta R.T. -0.01 min
Lab File: VN061561.D
Acq: 29 May 2020 12:51

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		2396		
98	0.0	0.0	21.4		





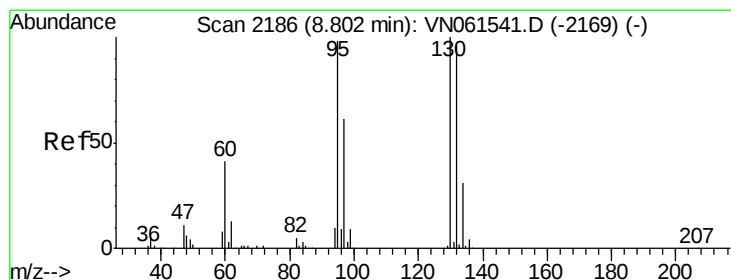
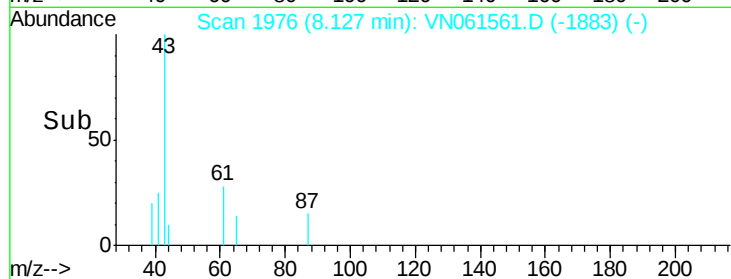
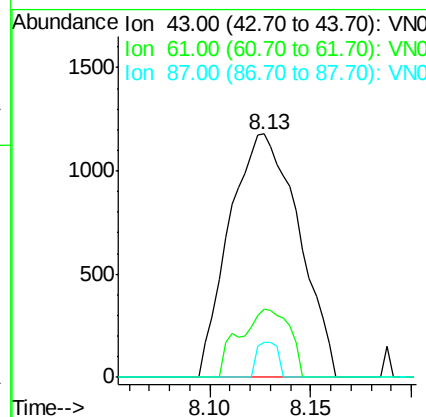
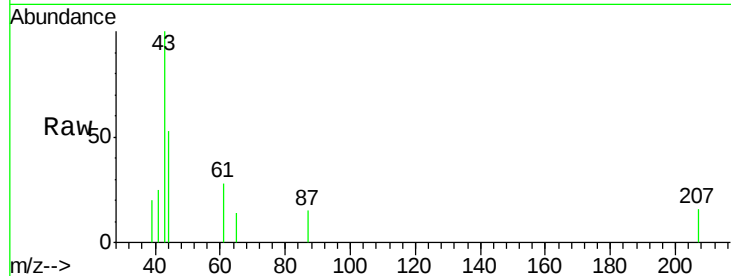
#43
Isopropyl Acetate
Concen: 0.436 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN061561.D
Acq: 29 May 2020 12:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
43	100		
61	20.5	23.6	35.4#
87	4.4	13.0	19.6#

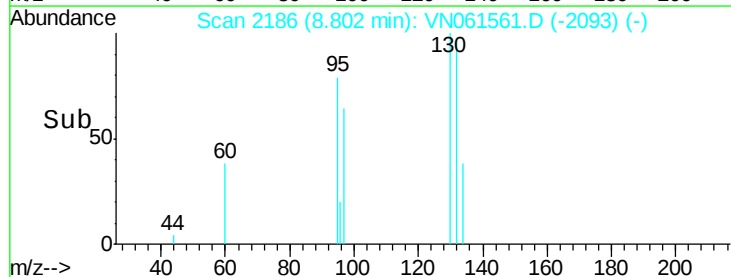
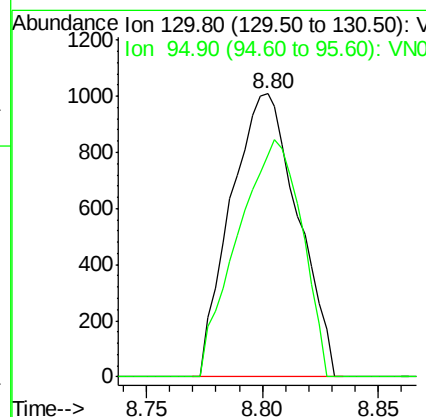
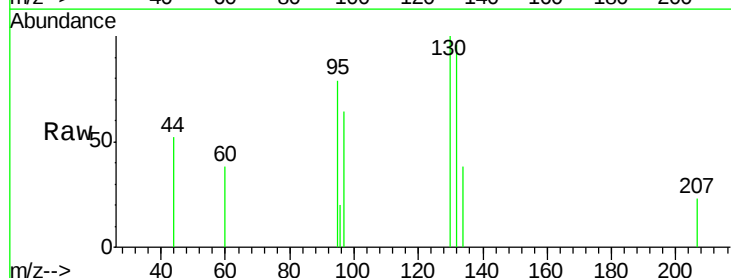
Manual Integrations
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6/1/2020 12:30:01 PM



#44
Trichloroethene
Concen: 0.478 ug/l
RT: 8.80 min Scan# 2186
Delta R.T. 0.00 min
Lab File: VN061561.D
Acq: 29 May 2020 12:51

Tgt Ion	Ratio	Lower	Upper
130	100		
95	78.7	0.0	196.6





#45

1,2-Dichloropropane

Concen: 0.449 ug/l

RT: 9.09 min Scan# 2274

Delta R.T. 0.00 min

Lab File: VN061561.D

Acq: 29 May 2020 12:51

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion: 63 Resp: 1468

Ion Ratio Lower Upper

63 100

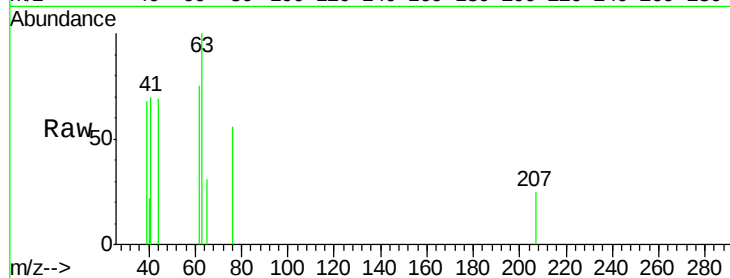
65 30.7 24.7 37.1

Manual Integrations

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Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

800

600

400

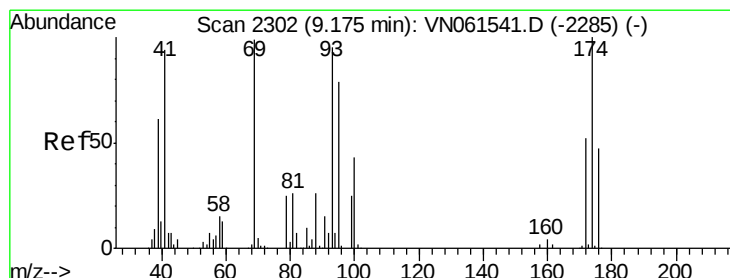
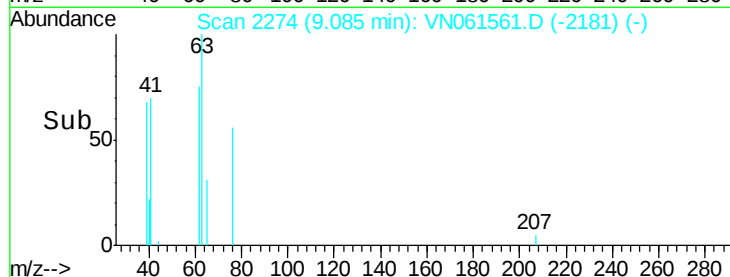
200

0

9.05

9.10

Time-->



#46

Dibromomethane

Concen: 0.432 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. 0.00 min

Lab File: VN061561.D

Acq: 29 May 2020 12:51

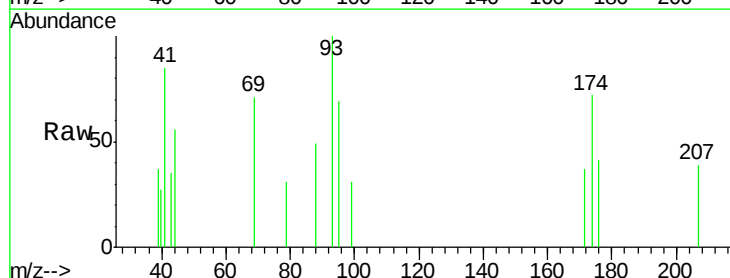
Tgt Ion: 93 Resp: 1082

Ion Ratio Lower Upper

93 100

95 81.1 66.0 99.0

174 82.8 82.5 123.7



Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V

800

600

400

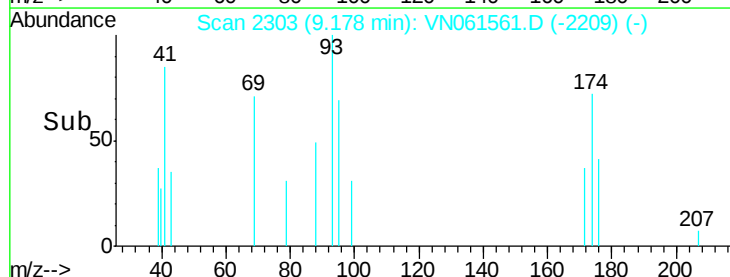
200

0

9.15

9.20

Time-->





#47

Bromodichloromethane

Concen: 0.424 ug/l

RT: 9.37 min Scan# 2363

Delta R.T. 0.00 min

Lab File: VN061561.D

Acq: 29 May 2020 12:51

Instrument :

MSVOA_N

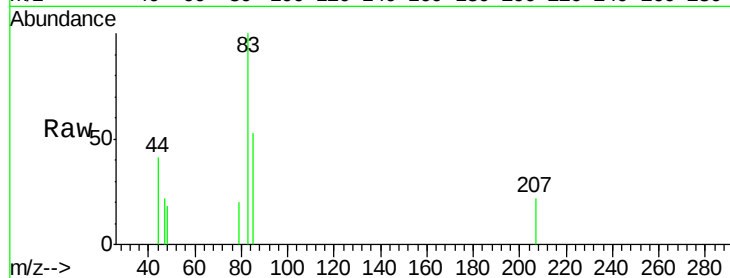
ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion:	83	Resp:	2104
Ion	Ratio	Lower	Upper
83	100		
85	52.8	51.1	76.7
127	0.0	7.2	10.8#

Manual Integrations
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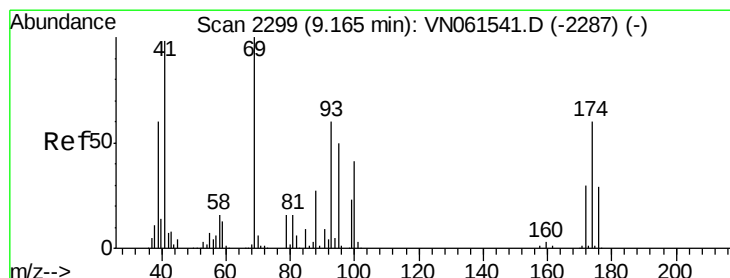
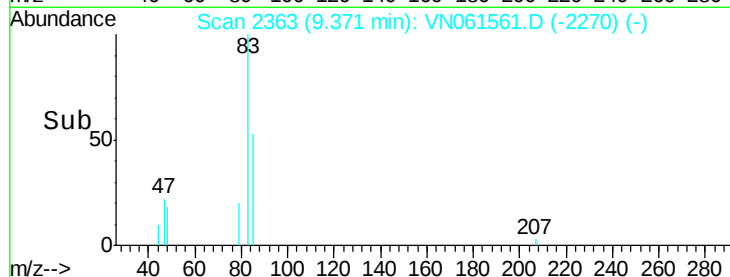
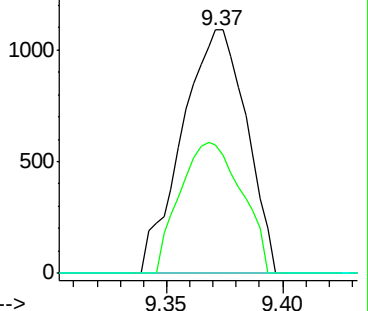
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Abundance Ion 82.90 (82.60 to 83.60): VN061561.D (-2270) (-)

Ion 84.90 (84.60 to 85.60): VN061561.D (-2270) (-)

Ion 126.80 (126.50 to 127.50): VN061561.D (-2270) (-)



#48

Methyl methacrylate

Concen: 0.449 ug/l

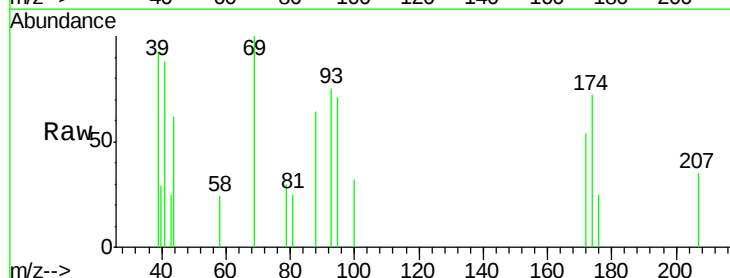
RT: 9.17 min Scan# 2300

Delta R.T. 0.00 min

Lab File: VN061561.D

Acq: 29 May 2020 12:51

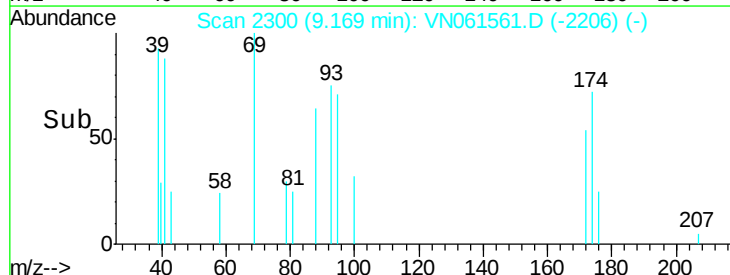
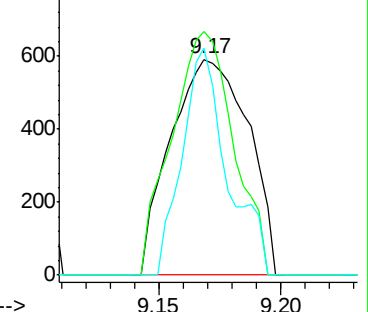
Tgt Ion:	41	Resp:	1305
Ion	Ratio	Lower	Upper
41	100		
69	90.4	83.9	125.9
39	60.9	52.1	78.1

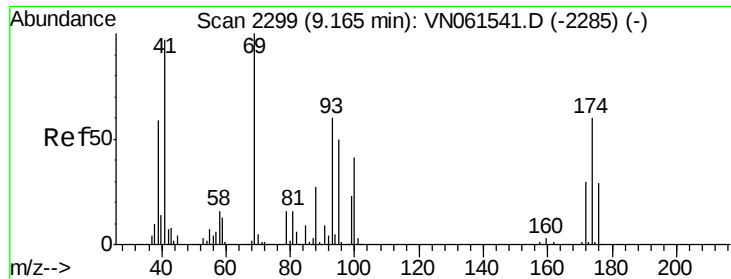


Abundance Ion 41.00 (40.70 to 41.70): VN061561.D (-2206) (-)

Ion 69.00 (68.70 to 69.70): VN061561.D (-2206) (-)

Ion 39.00 (38.70 to 39.70): VN061561.D (-2206) (-)





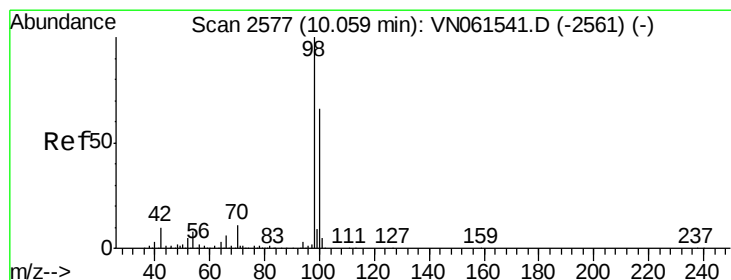
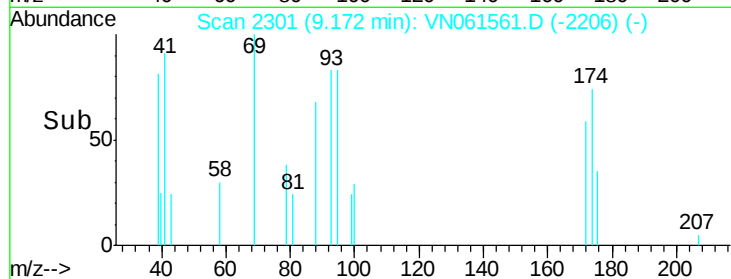
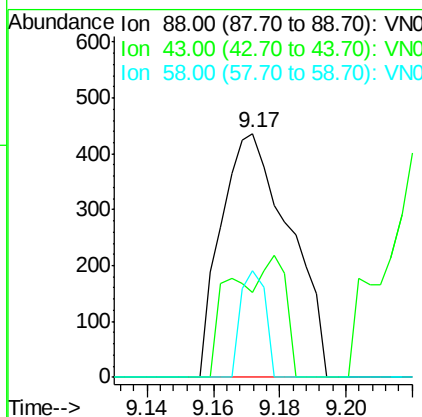
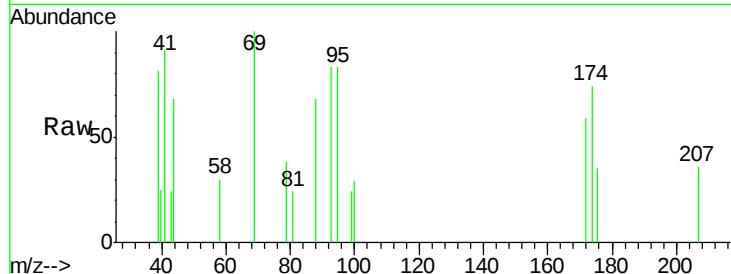
#49
1,4-Dioxane
Concen: 13.892 ug/l
RT: 9.17 min Scan# 2301
Delta R.T. 0.01 min
Lab File: VN061561.D
Acq: 29 May 2020 12:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
88	100		
43	18.4	23.1	34.7#
58	15.7	48.3	72.5#

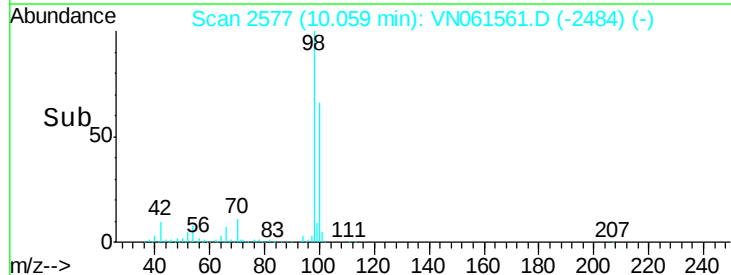
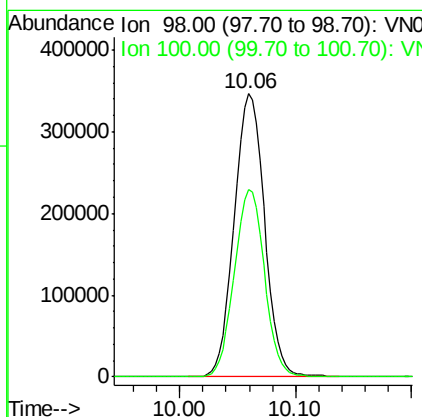
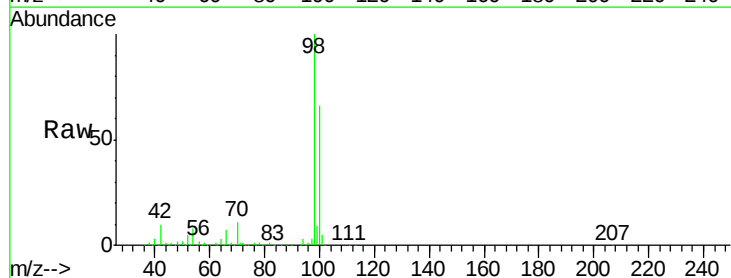
Manual Integrations
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6/1/2020 12:30:01 PM



#50
Toluene-d8
Concen: 53.265 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VN061561.D
Acq: 29 May 2020 12:51

Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.1	52.8	79.2





#51

4-Methyl-2-Pentanone

Concen: 2.039 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. 0.00 min

Lab File: VN061561.D

Acq: 29 May 2020 12:51

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion: 43 Resp: 7427

Ion Ratio Lower Upper

43 100

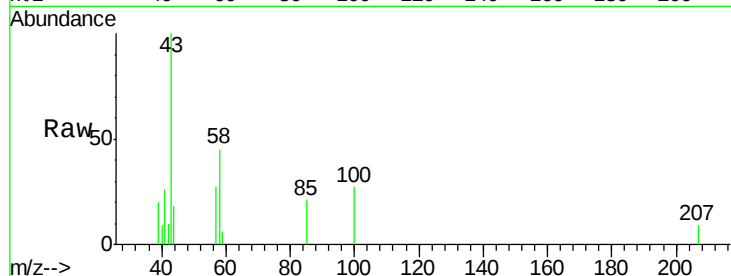
58 43.3 35.0 52.6

Manual Integrations

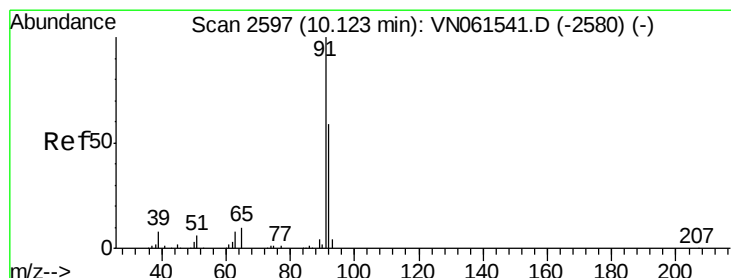
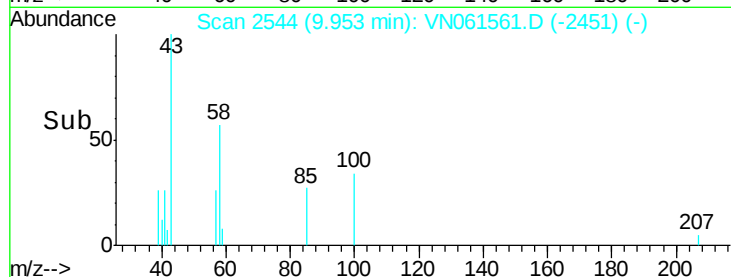
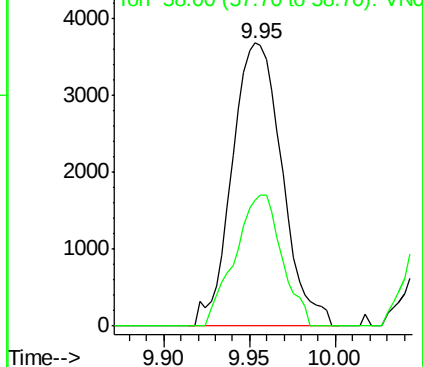
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6/1/2020 12:30:01 PM



Abundance Ion 43.00 (42.70 to 43.70): VN061541.D (-2528) (-)



#52

Toluene

Concen: 0.445 ug/l

RT: 10.12 min Scan# 2597

Delta R.T. 0.00 min

Lab File: VN061561.D

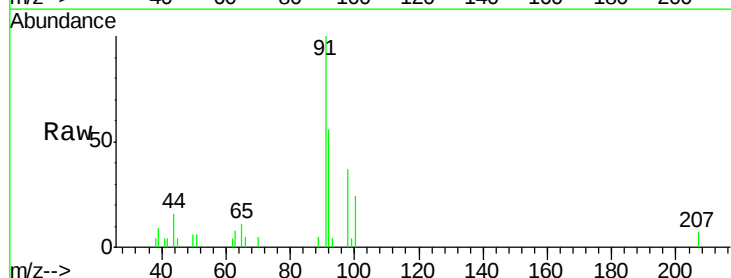
Acq: 29 May 2020 12:51

Tgt Ion: 92 Resp: 4002

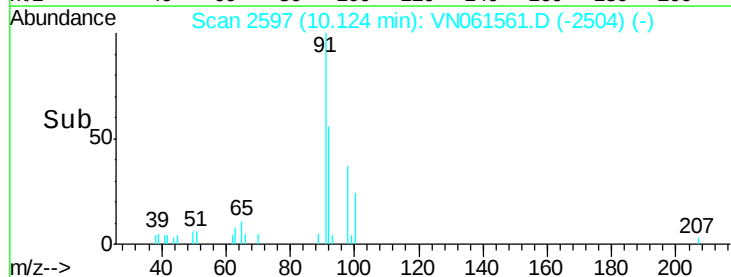
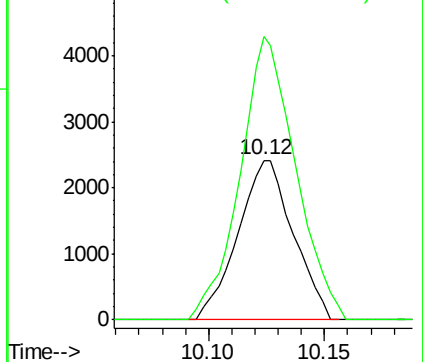
Ion Ratio Lower Upper

92 100

91 178.3 136.4 204.6



Abundance Ion 92.00 (91.70 to 92.70): VN061541.D (-2580) (-)





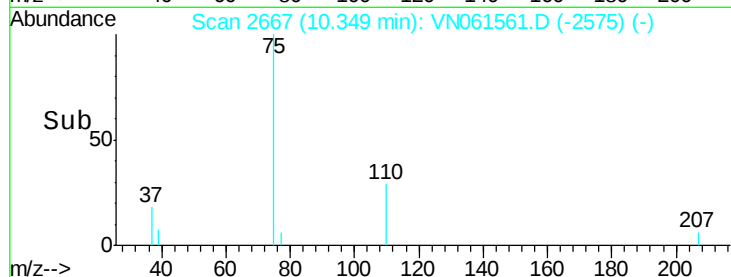
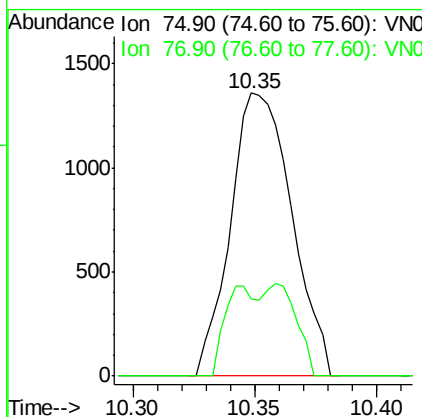
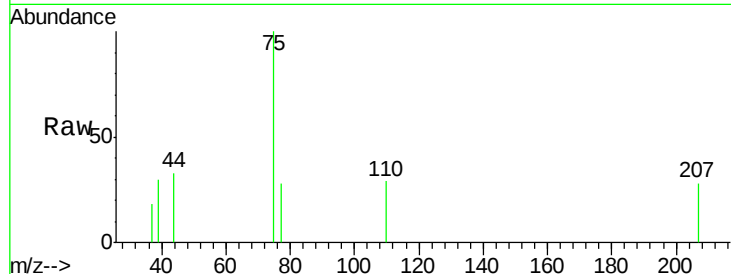
#53
t-1,3-Dichloropropene
Concen: 0.442 ug/l
RT: 10.35 min Scan# 2667
Delta R.T. -0.00 min
Lab File: VN061561.D
Acq: 29 May 2020 12:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT2-2020DL

Tot Ion: 75 Resp: 2366
Ion Ratio Lower Upper
75 100
77 27.5 26.2 39.4

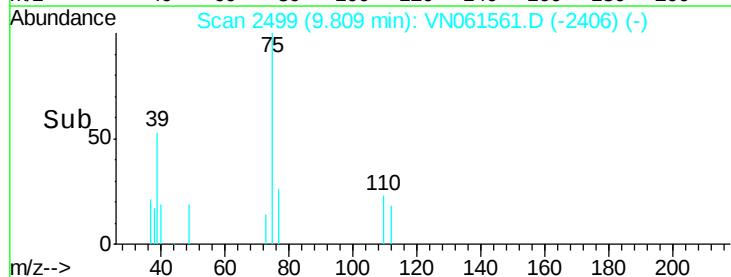
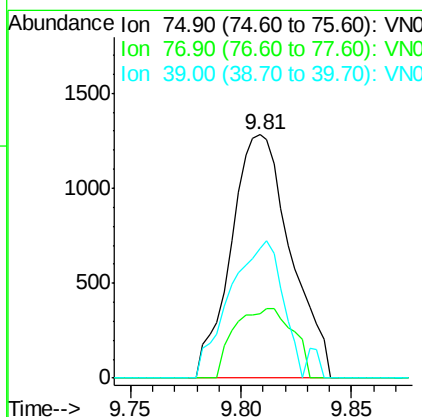
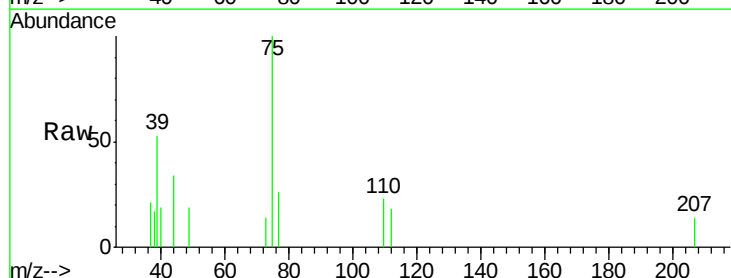
Manual Integrations
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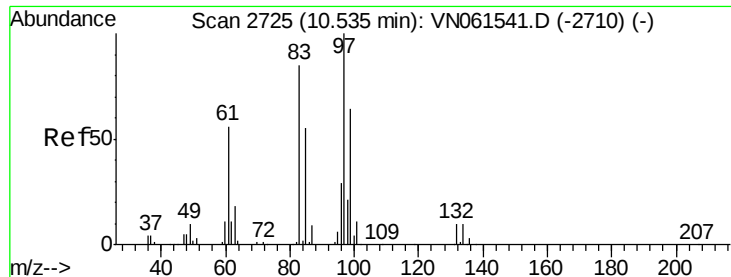
MMDadoda
6/1/2020 12:30:01 PM



#54
cis-1,3-Dichloropropene
Concen: 0.418 ug/l
RT: 9.81 min Scan# 2499
Delta R.T. 0.00 min
Lab File: VN061561.D
Acq: 29 May 2020 12:51

Tgt Ion: 75 Resp: 2406
Ion Ratio Lower Upper
75 100
77 26.4 25.4 38.2
39 53.4 33.8 50.6#





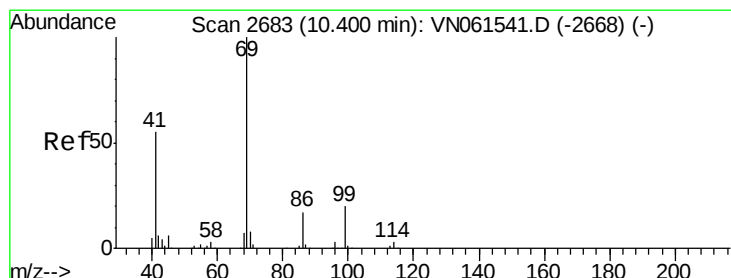
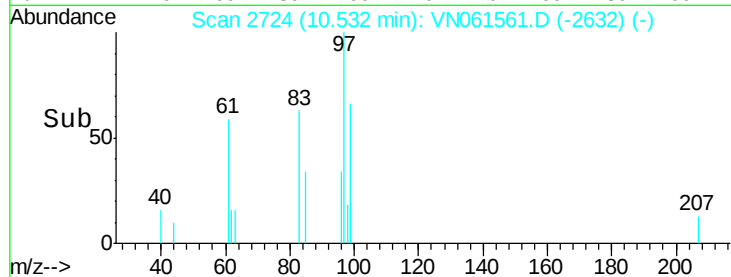
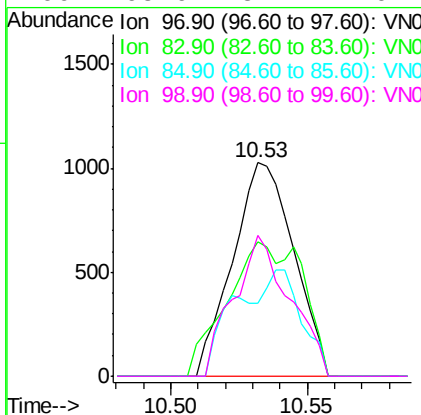
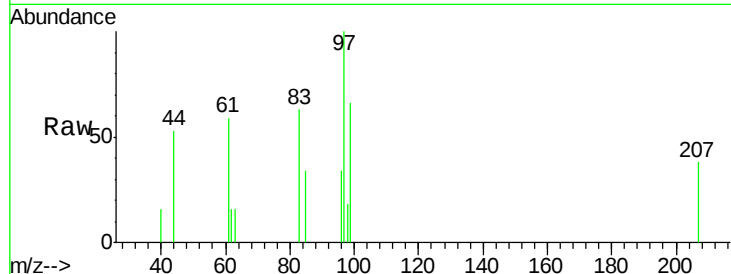
#55
 1,1,2-Trichloroethane
 Concen: 0.446 ug/l
 RT: 10.53 min Scan# 2724
 Delta R.T. -0.00 min
 Lab File: VN061561.D
 Acq: 29 May 2020 12:51

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT2-2020DL

Tot Ion:	97	Resp:	1595
Ion	Ratio	Lower	Upper
97	100		
83	62.7	68.1	102.1#
85	34.4	44.1	66.1#
99	65.6	51.1	76.7

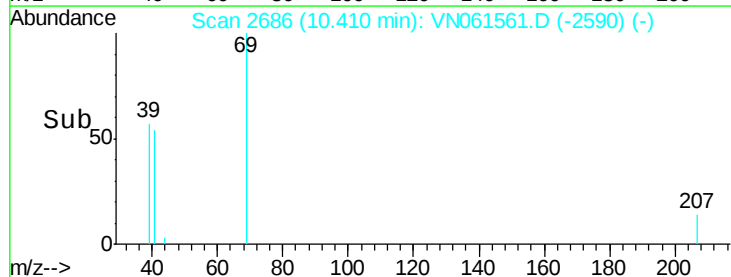
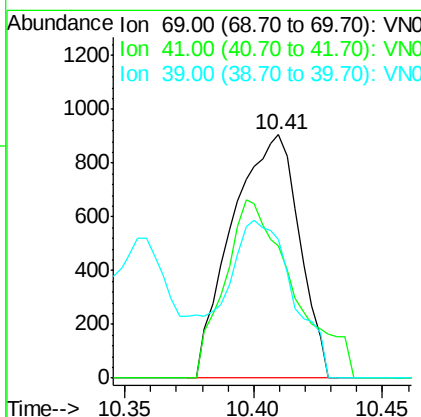
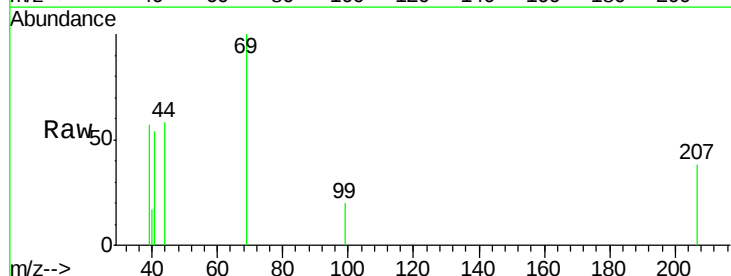
Manual Integrations
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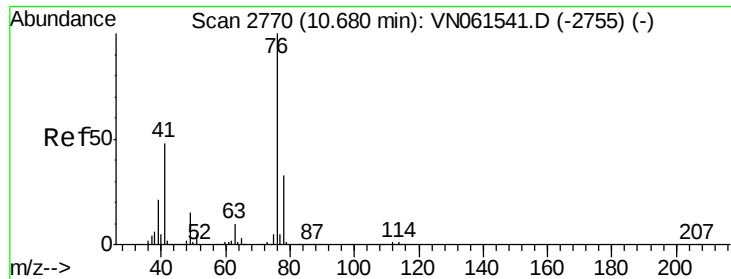
MMDadoda
 6/1/2020 12:30:01 PM



#56
 Ethyl methacrylate
 Concen: 0.329 ug/l
 RT: 10.41 min Scan# 2686
 Delta R.T. 0.01 min
 Lab File: VN061561.D
 Acq: 29 May 2020 12:51

Tgt Ion:	69	Resp:	1643
Ion	Ratio	Lower	Upper
69	100		
41	75.0	43.5	65.3#
39	62.9	27.0	40.6#





#57

1,3-Dichloropropane

Concen: 0.444 ug/l

RT: 10.68 min Scan# 2769

Delta R.T. -0.00 min

Lab File: VN061561.D

Acq: 29 May 2020 12:51

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion: 76 Resp: 2540

Ion Ratio Lower Upper

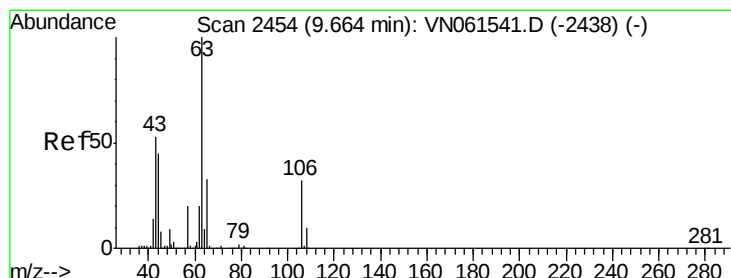
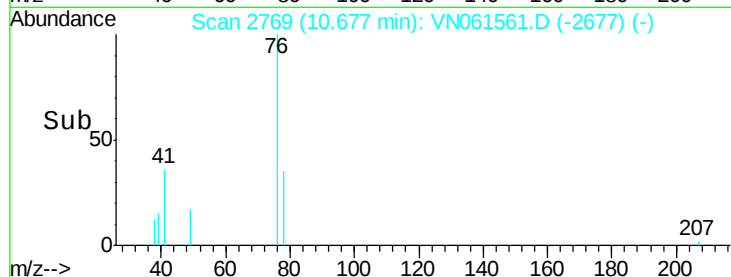
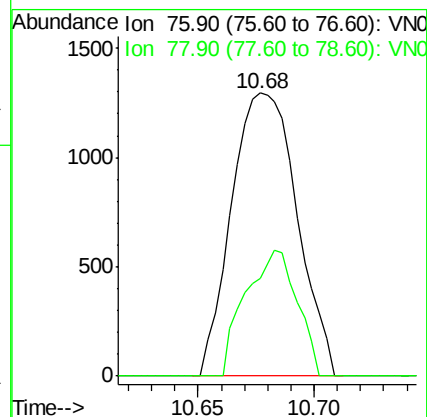
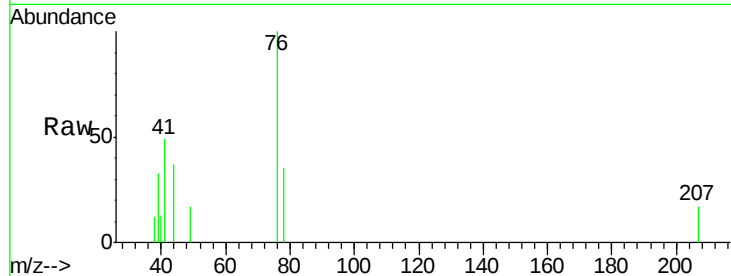
76 100

78 35.1 26.3 39.5

Manual Integrations
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#58

2-Chloroethyl Vinyl ether

Concen: 2.044 ug/l

RT: 9.67 min Scan# 2455

Delta R.T. 0.00 min

Lab File: VN061561.D

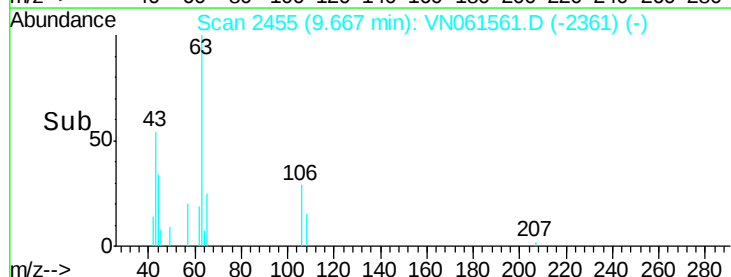
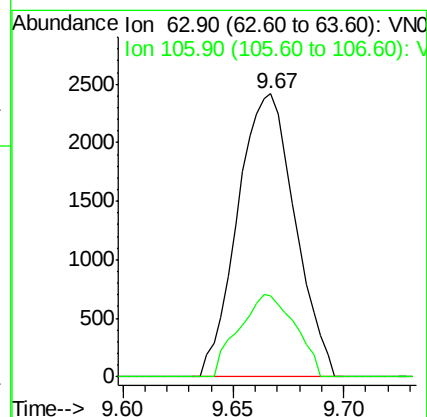
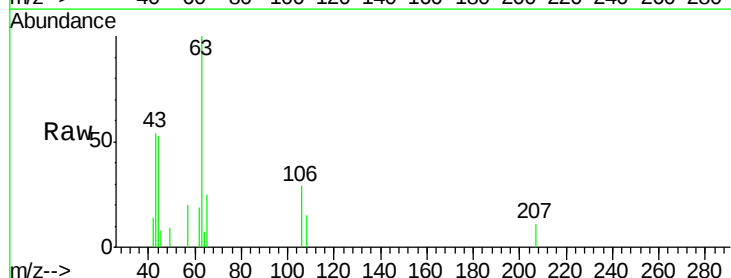
Acq: 29 May 2020 12:51

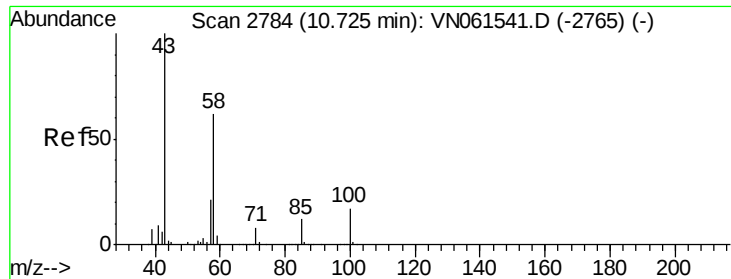
Tgt Ion: 63 Resp: 4367

Ion Ratio Lower Upper

63 100

106 28.3 25.9 38.9





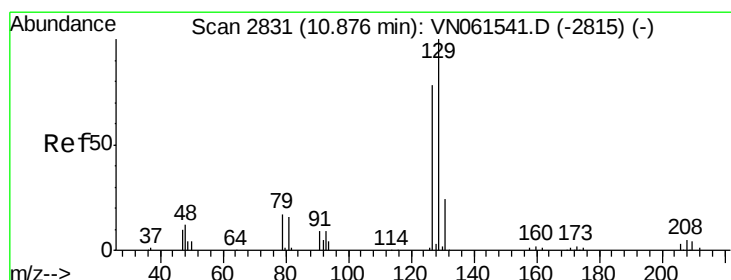
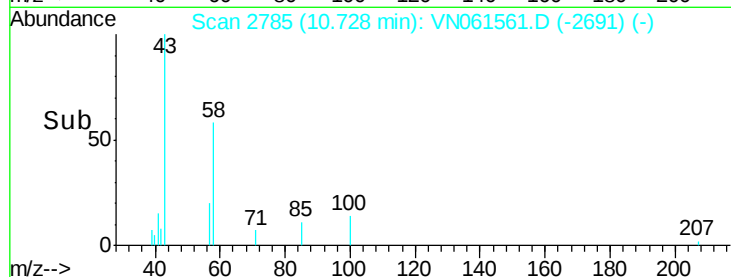
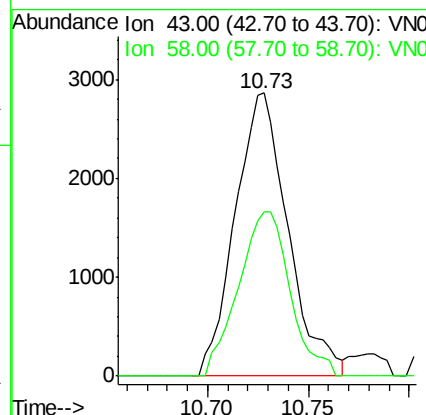
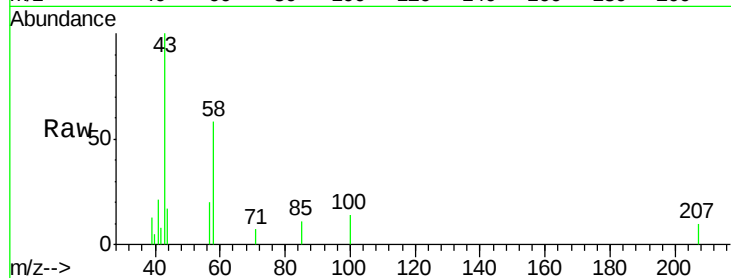
#59
2-Hexanone
Concen: 2.006 ug/l
RT: 10.73 min Scan# 2785
Delta R.T. 0.00 min
Lab File: VN061561.D
Acq: 29 May 2020 12:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT2-2020DL

Tot Ion: 43 Resp: 5248
Ion Ratio Lower Upper
43 100
58 56.8 30.7 92.1

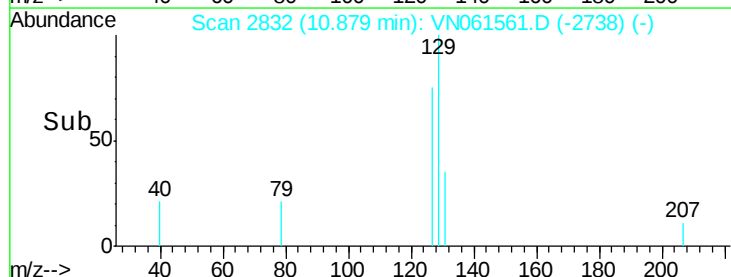
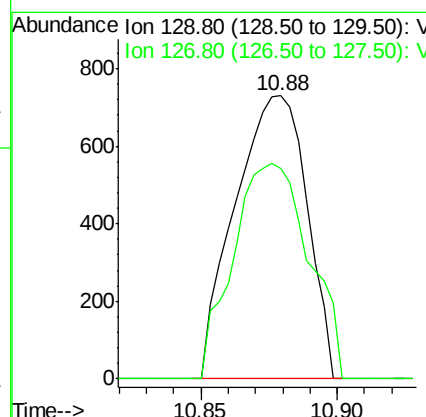
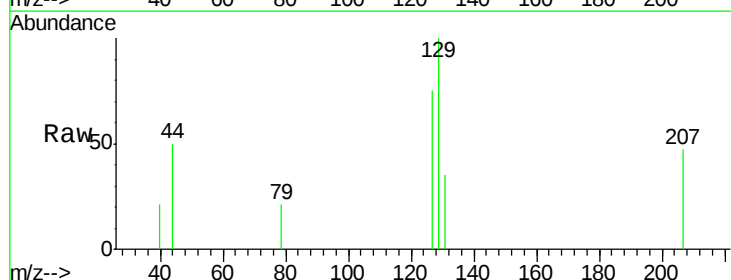
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#60
Dibromochloromethane
Concen: 0.328 ug/l
RT: 10.88 min Scan# 2832
Delta R.T. 0.00 min
Lab File: VN061561.D
Acq: 29 May 2020 12:51

Tgt Ion: 129 Resp: 1333
Ion Ratio Lower Upper
129 100
127 80.5 38.8 116.3





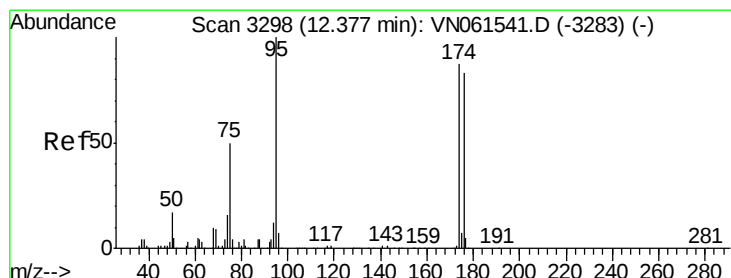
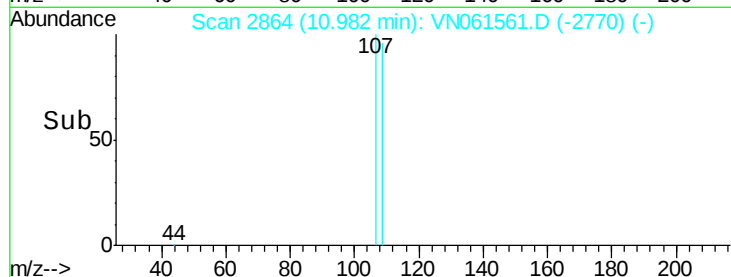
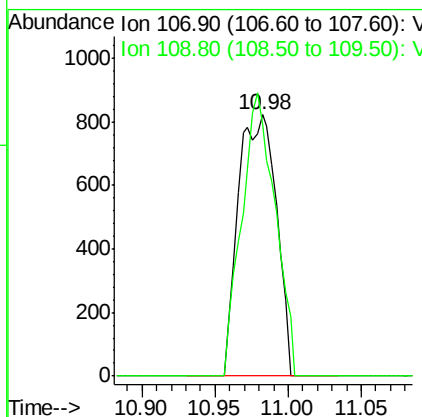
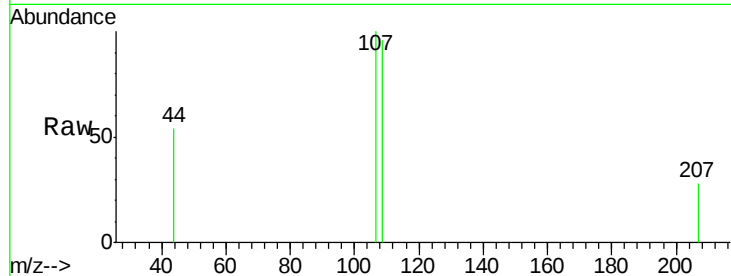
#61
 1,2-Dibromoethane
 Concen: 0.394 ug/l m
 RT: 10.98 min Scan# 2864
 Delta R.T. 0.00 min
 Lab File: VN061561.D
 Acq: 29 May 2020 12:51

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT2-2020DL

Tot Ion: 107 Resp: 1471
 Ion Ratio Lower Upper
 107 100
 109 95.1 76.1 114.1

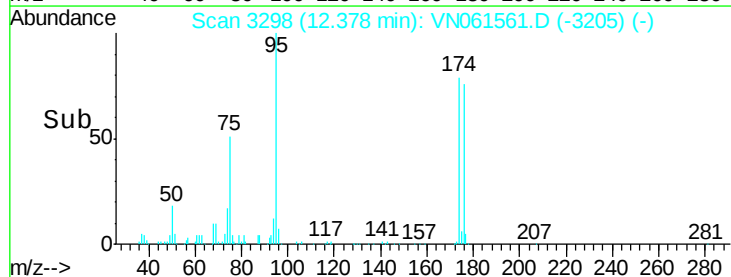
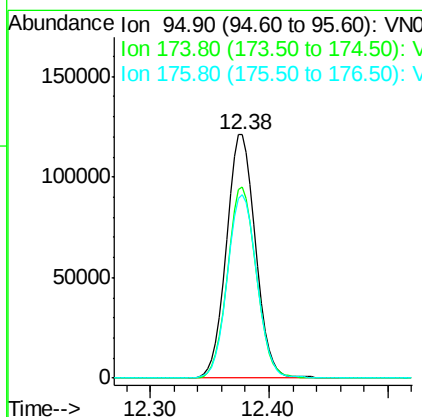
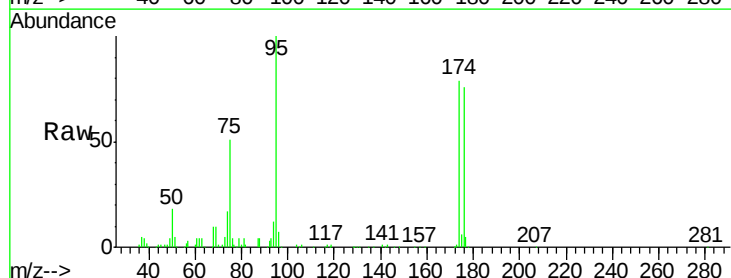
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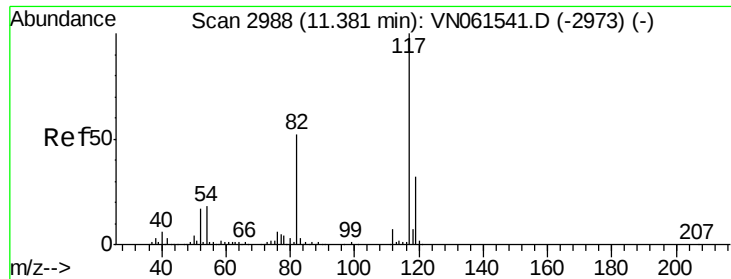
MMDadoda
 6/1/2020 12:30:01 PM



#62
 4-Bromofluorobenzene
 Concen: 47.561 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.00 min
 Lab File: VN061561.D
 Acq: 29 May 2020 12:51

Tgt Ion: 95 Resp: 205577
 Ion Ratio Lower Upper
 95 100
 174 77.9 0.0 172.8
 176 76.3 0.0 164.8





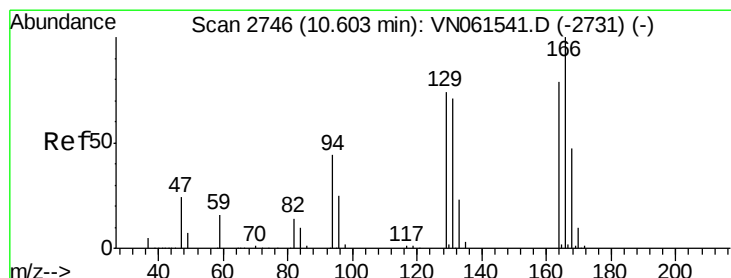
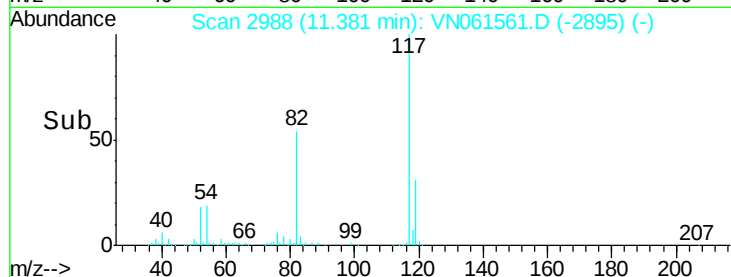
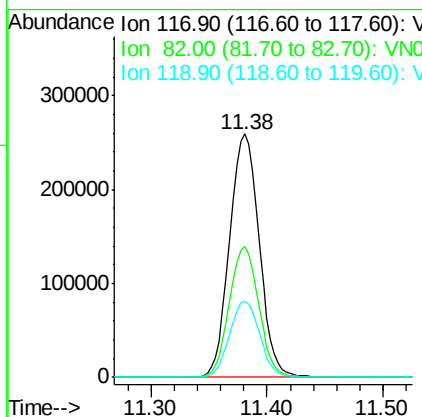
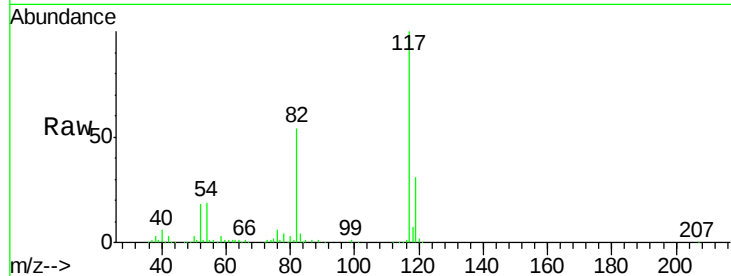
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061561.D
Acq: 29 May 2020 12:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT2-2020DL

Tot Ion	Ratio	Resp	Lower	Upper
117	100	458216		
82	53.6		41.5	62.3
119	31.4		25.6	38.4

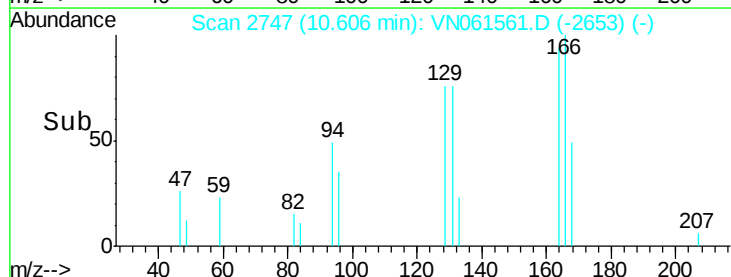
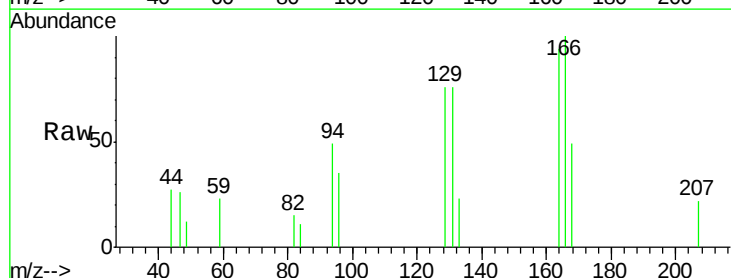
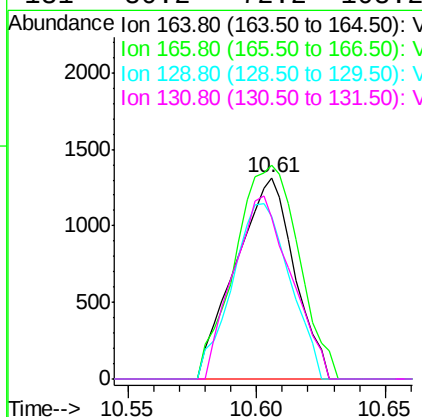
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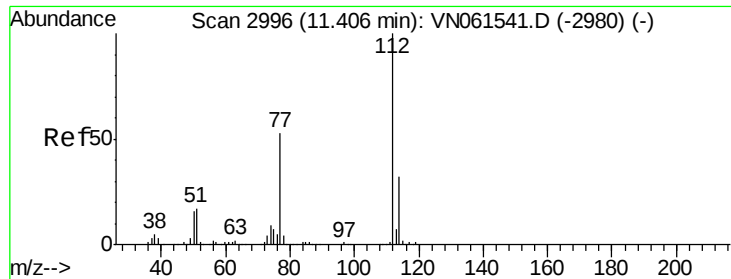
MMDadoda
6/1/2020 12:30:01 PM



#64
Tetrachloroethene
Concen: 0.484 ug/l
RT: 10.61 min Scan# 2747
Delta R.T. 0.00 min
Lab File: VN061561.D
Acq: 29 May 2020 12:51

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	2087		
166	106.1		101.5	152.3
129	80.6		74.9	112.3
131	80.2		72.2	108.2





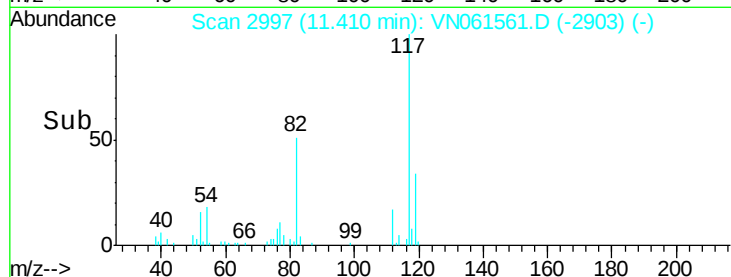
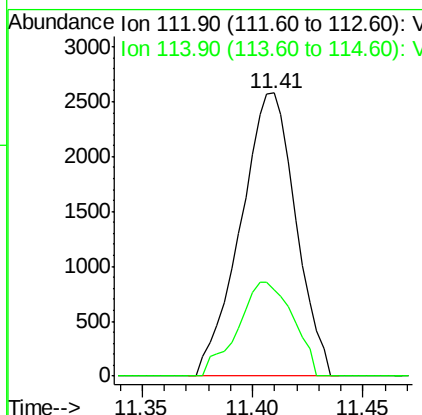
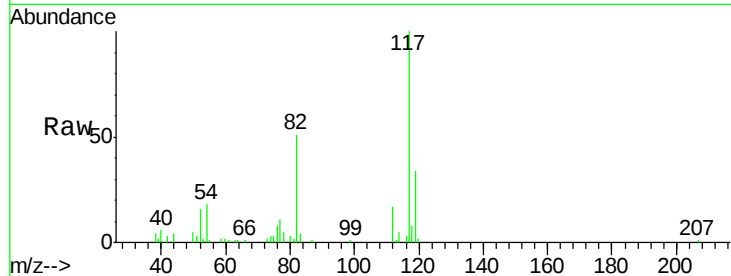
#65
Chlorobenzene
Concen: 0.469 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN061561.D
Acq: 29 May 2020 12:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT2-2020DL

Tot Ion:112 Resp: 4470
Ion Ratio Lower Upper
112 100
114 30.6 25.7 38.5

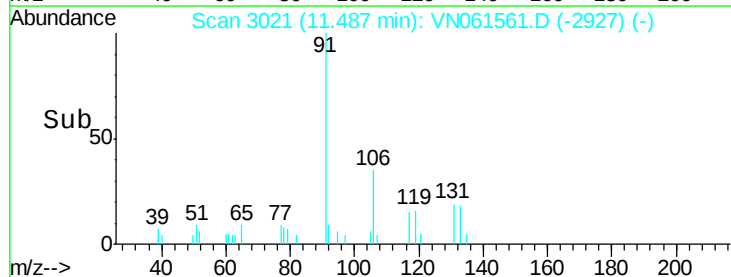
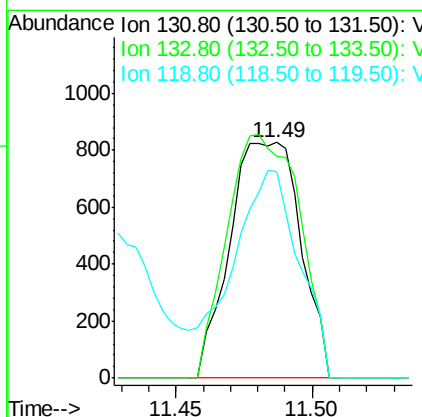
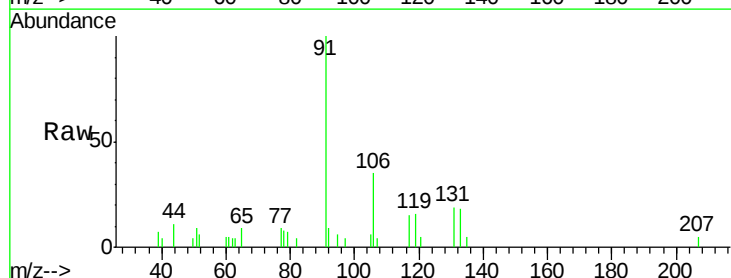
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#66
1,1,1,2-Tetrachloroethane
Concen: 0.420 ug/l
RT: 11.49 min Scan# 3021
Delta R.T. 0.00 min
Lab File: VN061561.D
Acq: 29 May 2020 12:51

Tgt Ion:131 Resp: 1490
Ion Ratio Lower Upper
131 100
133 106.2 47.4 142.2
119 0.0 32.6 97.8#





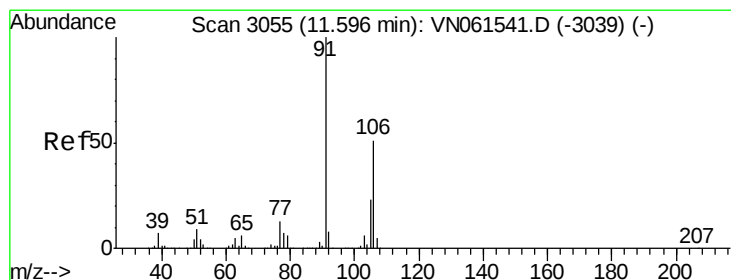
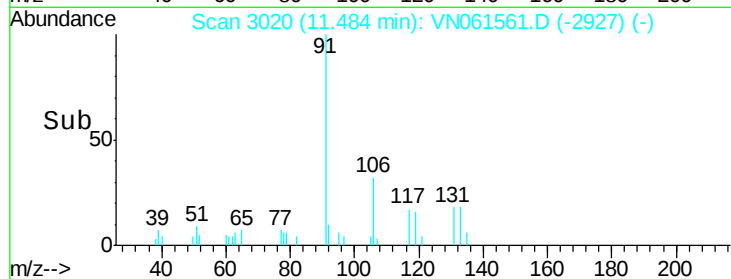
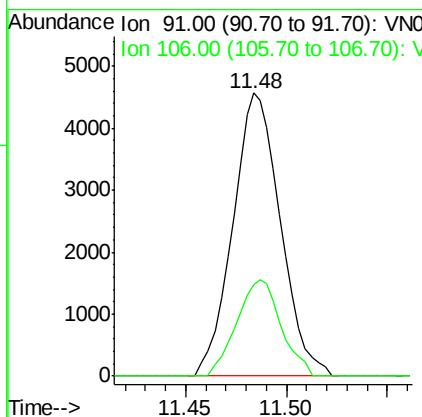
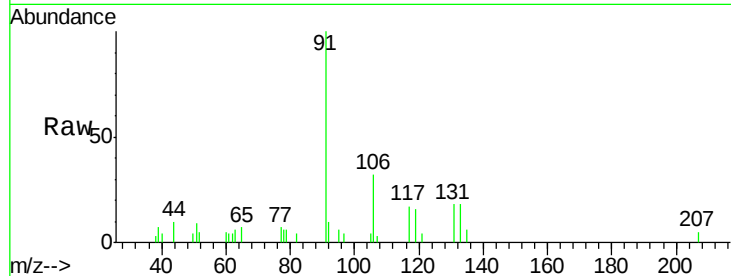
#67
Ethyl Benzene
Concen: 0.457 ug/l
RT: 11.48 min Scan# 3020
Delta R.T. 0.00 min
Lab File: VN061561.D
Acq: 29 May 2020 12:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT2-2020DL

Tot Ion: 91 Resp: 7522
Ion Ratio Lower Upper
91 100
106 32.4 25.6 38.4

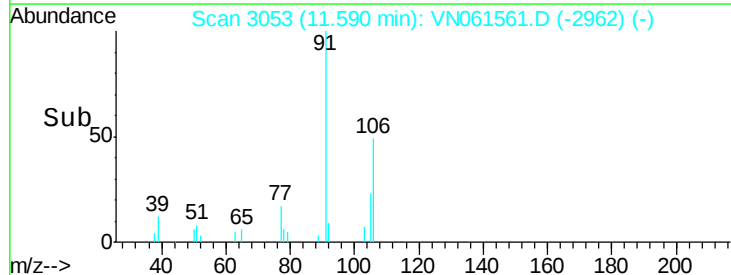
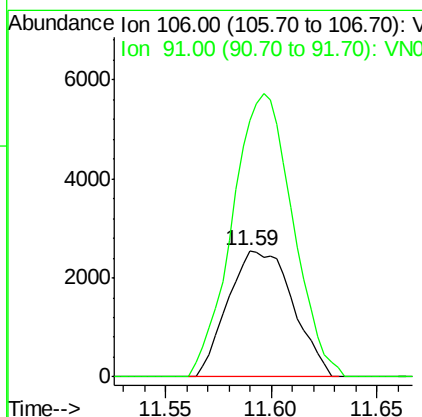
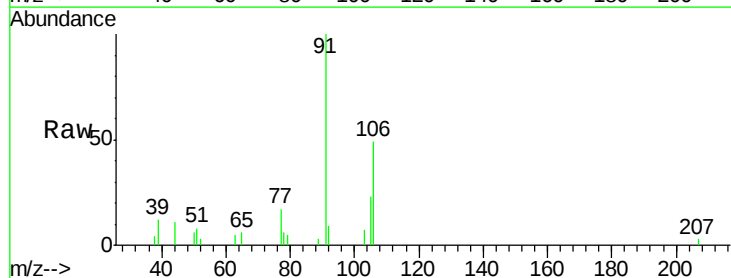
Manual Integrations
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#68
m/p-Xylenes
Concen: 0.834 ug/l
RT: 11.59 min Scan# 3053
Delta R.T. -0.01 min
Lab File: VN061561.D
Acq: 29 May 2020 12:51

Tgt Ion: 106 Resp: 5444
Ion Ratio Lower Upper
106 100
91 209.0 156.2 234.4





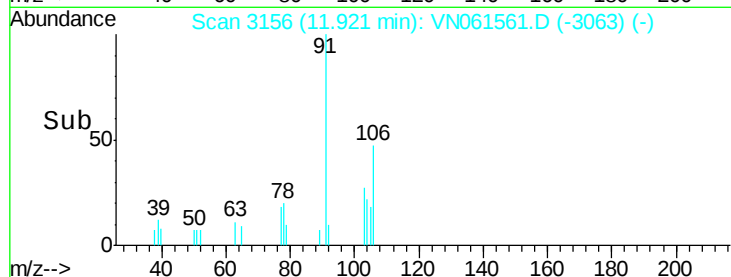
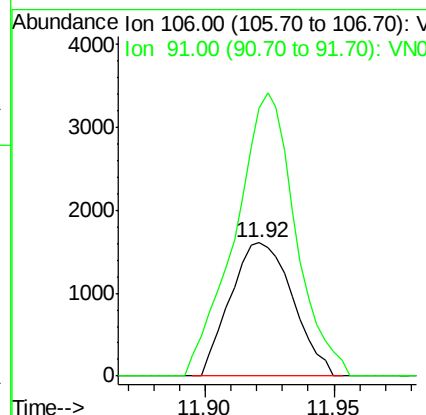
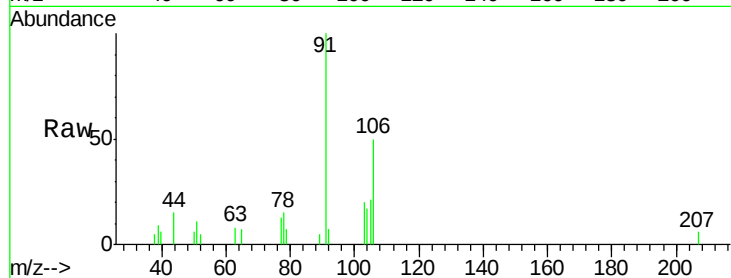
#69
o-Xylene
Concen: 0.436 ug/l
RT: 11.92 min Scan# 3156
Delta R.T. 0.00 min
Lab File: VN061561.D
Acq: 29 May 2020 12:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT2-2020DL

Tot Ion	Ion	Ratio	Lower	Upper
106	106	100		
91	91	205.9	103.3	309.8

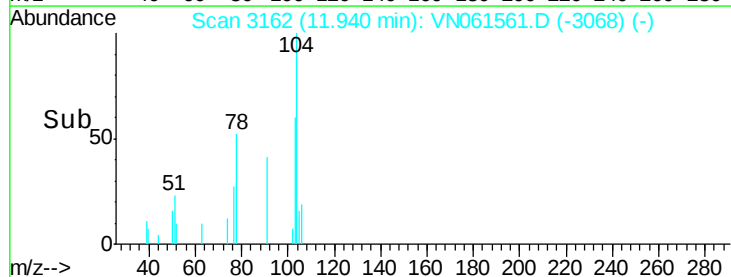
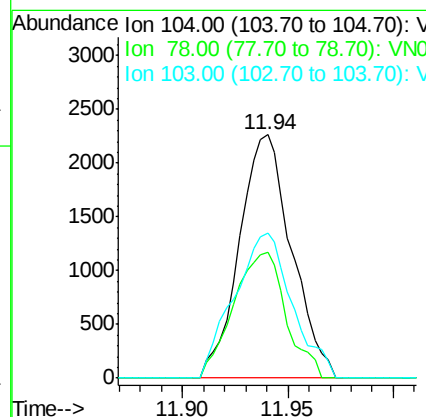
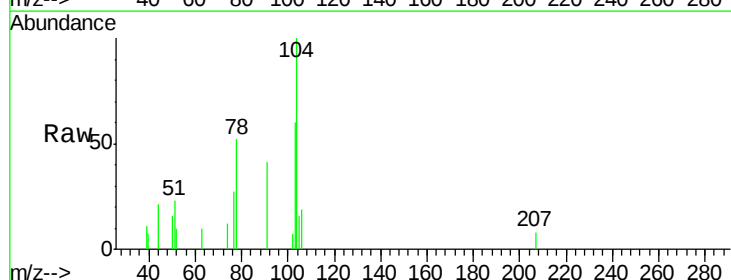
Manual Integrations
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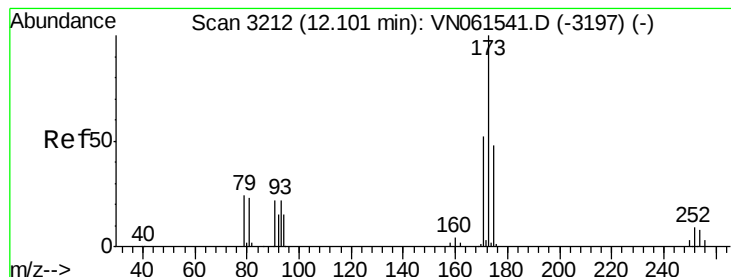
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#70
Styrene
Concen: 0.379 ug/l
RT: 11.94 min Scan# 3162
Delta R.T. 0.00 min
Lab File: VN061561.D
Acq: 29 May 2020 12:51

Tgt Ion	Ion	Ratio	Lower	Upper
104	104	100		
78	78	51.9	37.4	56.0
103	103	66.0	42.3	63.5#





#71

Bromoform

Concen: 0.359 ug/l

RT: 12.10 min Scan# 3212

Delta R.T. 0.00 min

Lab File: VN061561.D

Acq: 29 May 2020 12:51

Instrument :

MSVOA_N

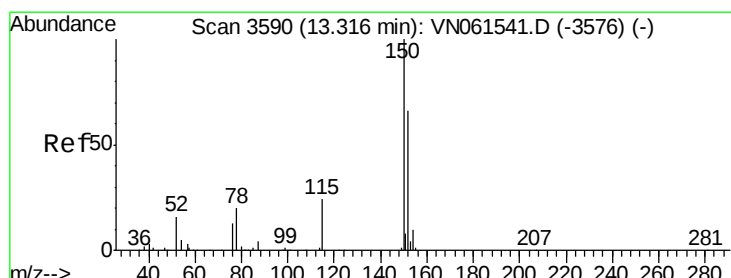
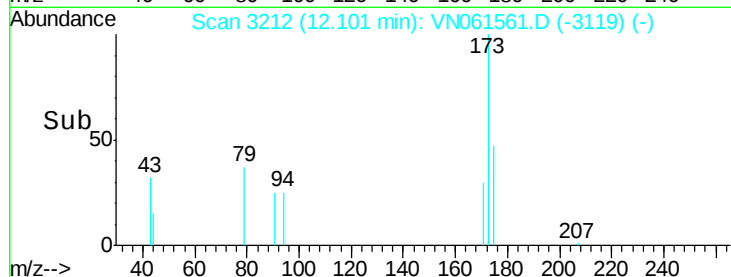
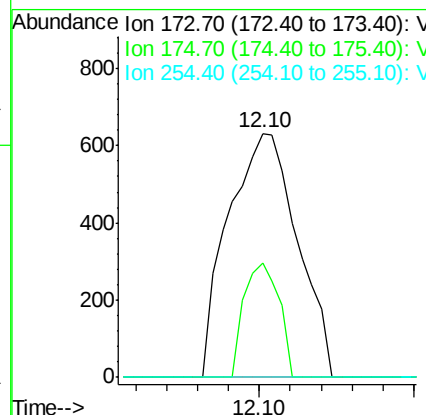
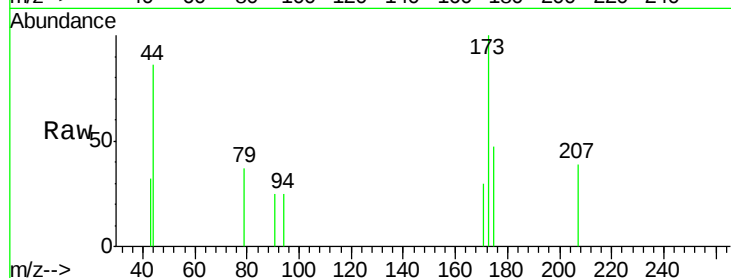
ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
173	100		
175	0.0	24.4	73.2#
254	0.0	0.0	0.0

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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

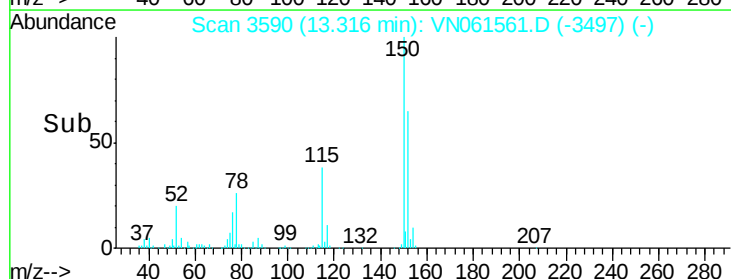
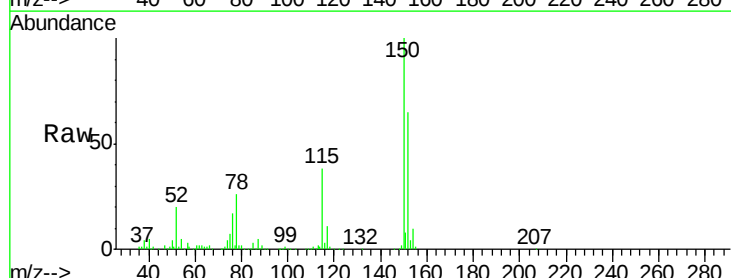
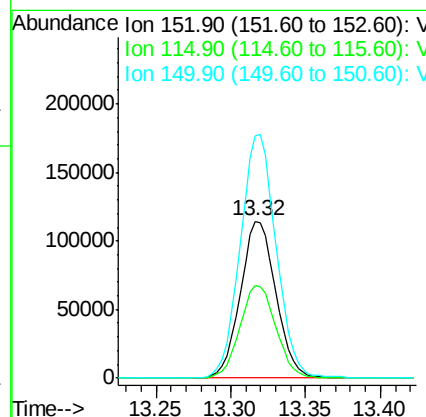
RT: 13.32 min Scan# 3590

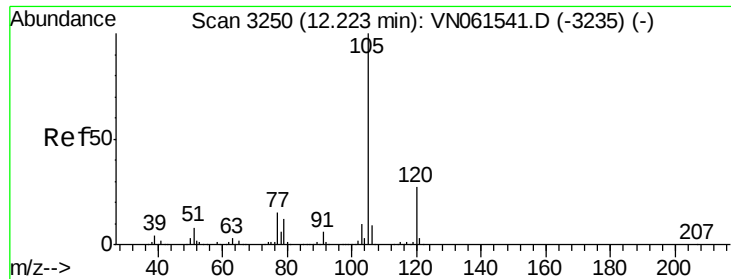
Delta R.T. 0.00 min

Lab File: VN061561.D

Acq: 29 May 2020 12:51

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.1	28.0	84.0
150	157.2	0.0	344.0





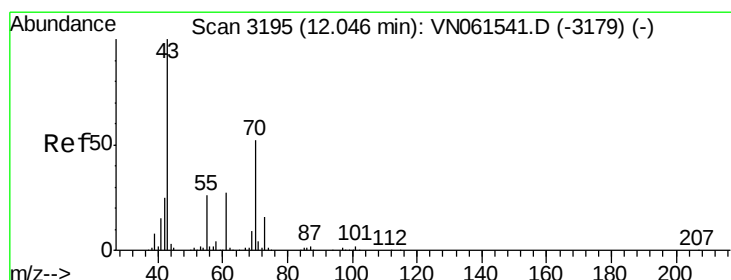
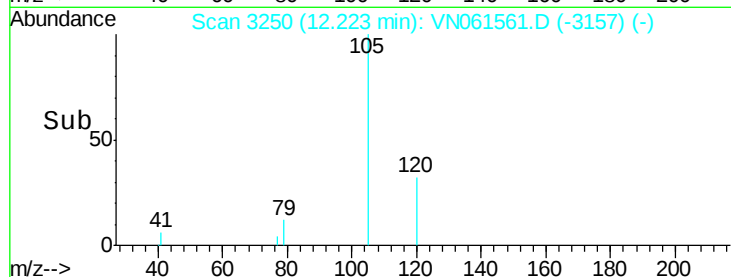
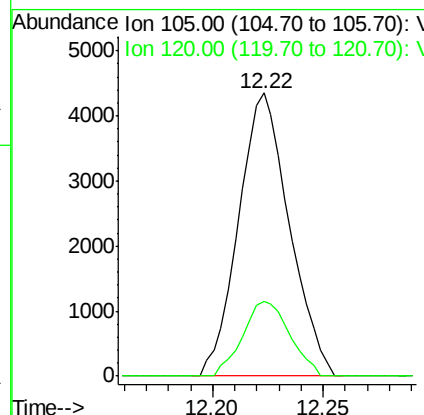
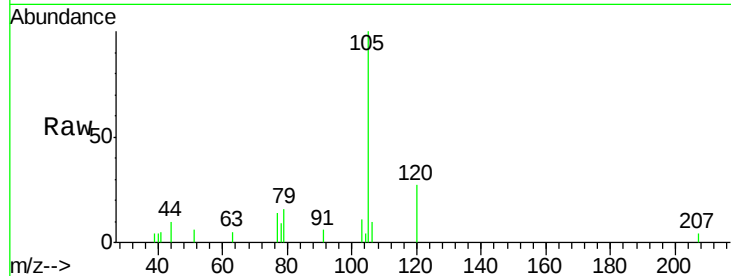
#73
Isopropylbenzene
Concen: 0.502 ug/l
RT: 12.22 min Scan# 3250
Delta R.T. 0.00 min
Lab File: VN061561.D
Acq: 29 May 2020 12:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
105	100		
120	24.5	13.8	41.3

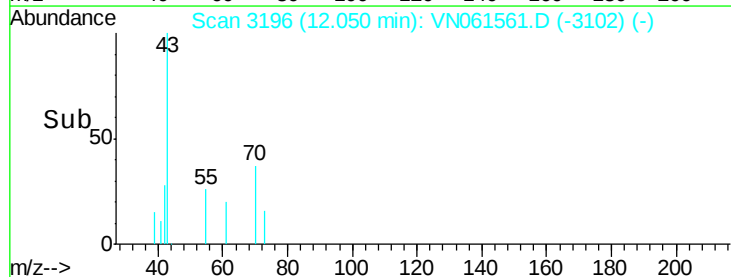
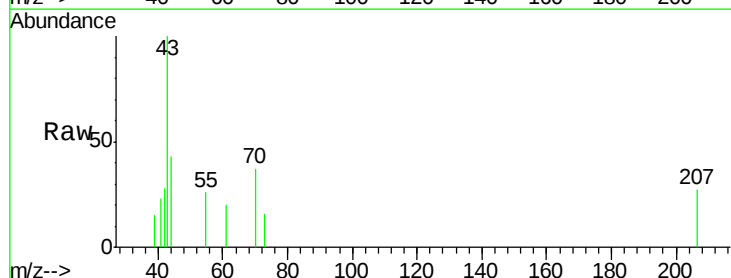
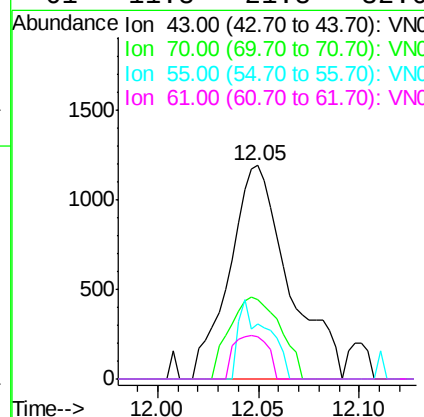
Manual Integrations
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#74
N-ethyl acetate
Concen: 0.560 ug/l
RT: 12.05 min Scan# 3196
Delta R.T. 0.00 min
Lab File: VN061561.D
Acq: 29 May 2020 12:51

Tgt Ion	Ratio	Lower	Upper
43	100		
70	32.9	40.5	60.7#
55	18.1	20.6	31.0#
61	11.8	21.8	32.6#





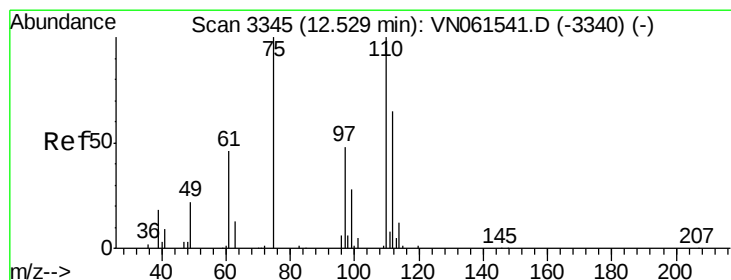
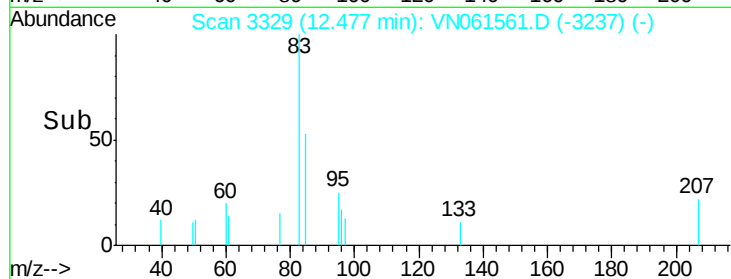
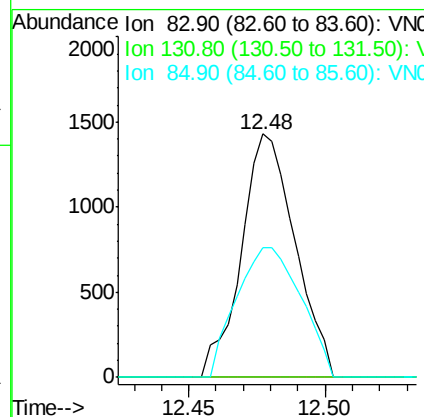
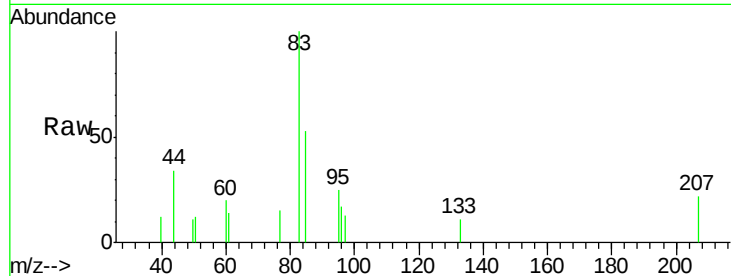
#75
 1,1,2,2-Tetrachloroethane
 Concen: 0.504 ug/l
 RT: 12.48 min Scan# 3329
 Delta R.T. -0.00 min
 Lab File: VN061561.D
 Acq: 29 May 2020 12:51

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.5	16.5#
85	64.2	32.1	96.3

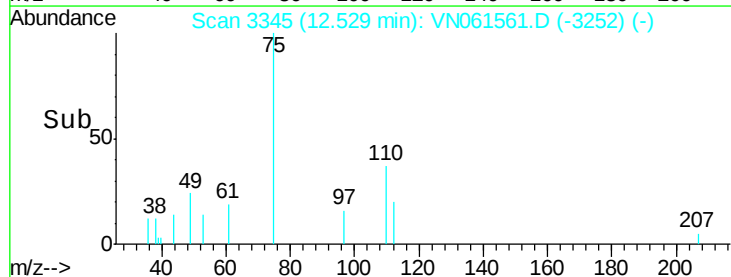
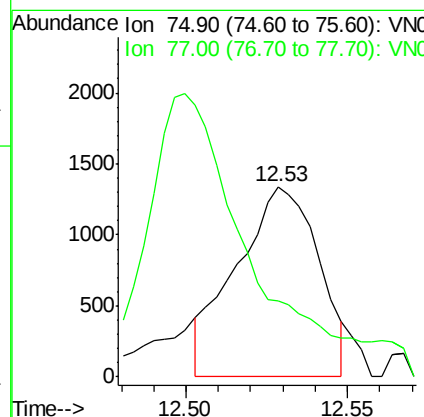
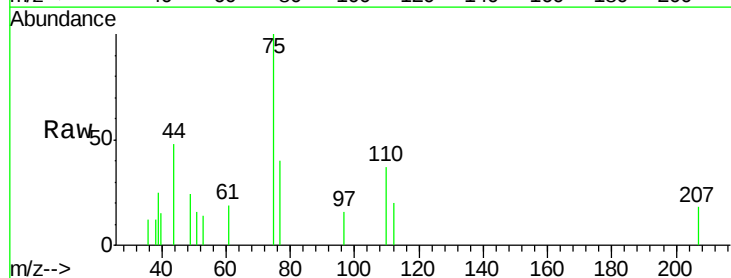
Manual Integrations
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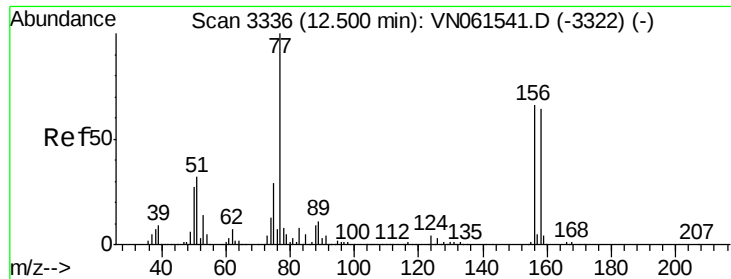
MMDadoda
 6/1/2020 12:30:01 PM



#76
 1,2,3-Trichloropropane
 Concen: 0.686 ug/l m
 RT: 12.53 min Scan# 3345
 Delta R.T. 0.00 min
 Lab File: VN061561.D
 Acq: 29 May 2020 12:51

Tgt Ion	Ratio	Lower	Upper
75	100		
77	52.9	0.0	0.0#





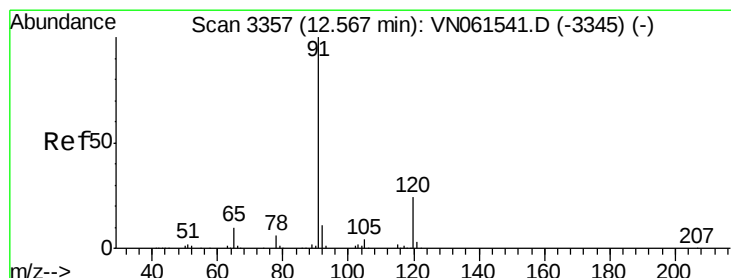
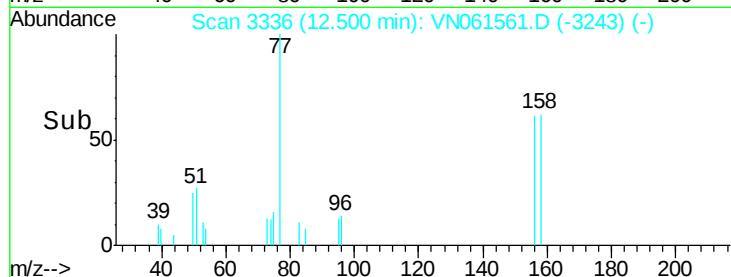
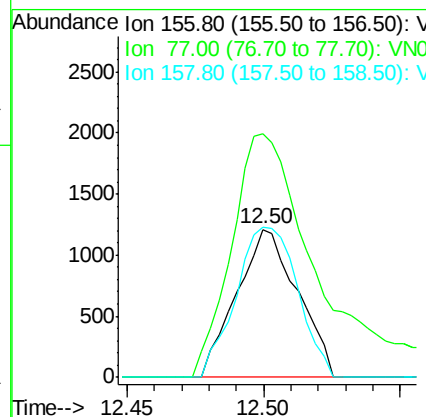
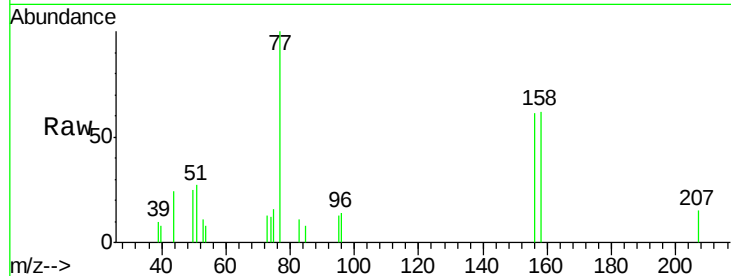
#77
Bromobenzene
Concen: 0.531 ug/l
RT: 12.50 min Scan# 3336
Delta R.T. 0.00 min
Lab File: VN061561.D
Acq: 29 May 2020 12:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
156	100		
77	236.1	90.9	272.7
158	102.8	48.4	145.3

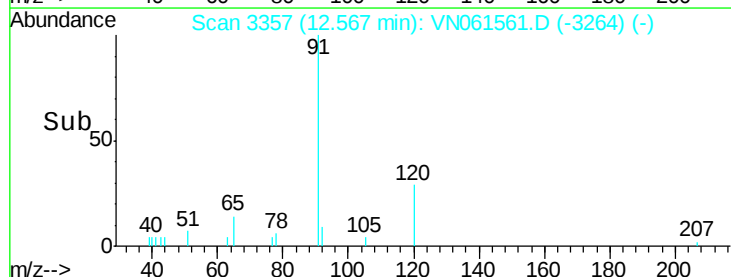
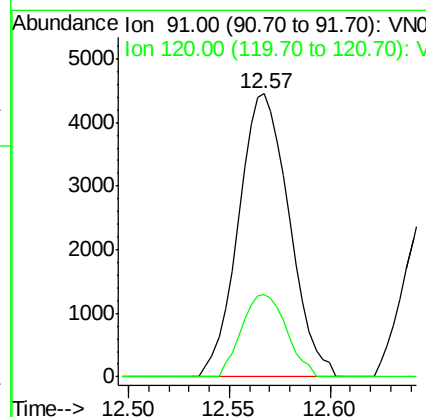
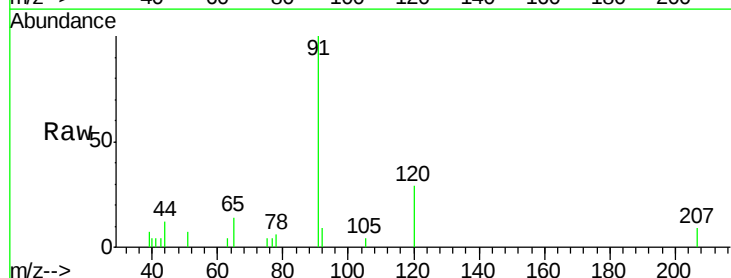
Manual Integrations
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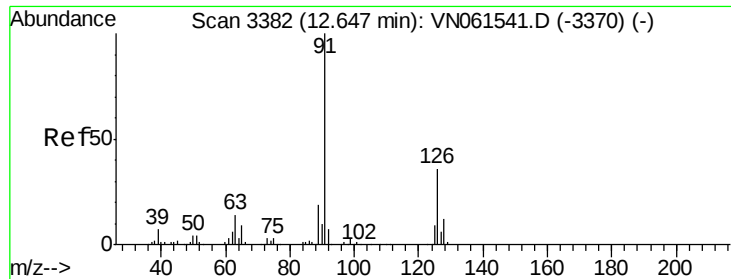
MMDadoda
6/1/2020 12:30:01 PM



#78
n-propylbenzene
Concen: 0.508 ug/l
RT: 12.57 min Scan# 3357
Delta R.T. 0.00 min
Lab File: VN061561.D
Acq: 29 May 2020 12:51

Tgt Ion	Ratio	Lower	Upper
91	100		
120	26.0	12.3	36.9





#79

2-Chlorotoluene

Concen: 0.558 ug/l

RT: 12.65 min Scan# 3383

Delta R.T. 0.00 min

Lab File: VN061561.D

Acq: 29 May 2020 12:51

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion: 91 Resp: 5135

Ion Ratio Lower Upper

91 100

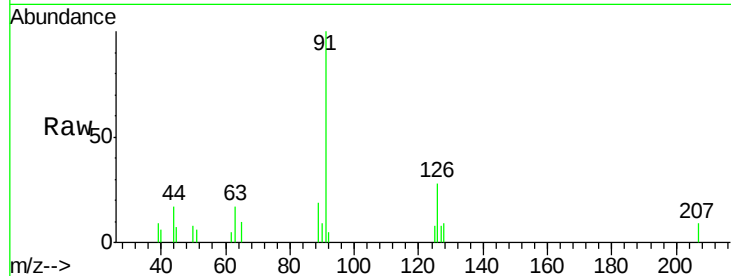
126 28.4 17.9 53.7

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Abundance Ion 91.00 (90.70 to 91.70): VN061541.D (-3370) (-)

Ion 125.90 (125.60 to 126.60): VN061541.D (-3370) (-)

12.65

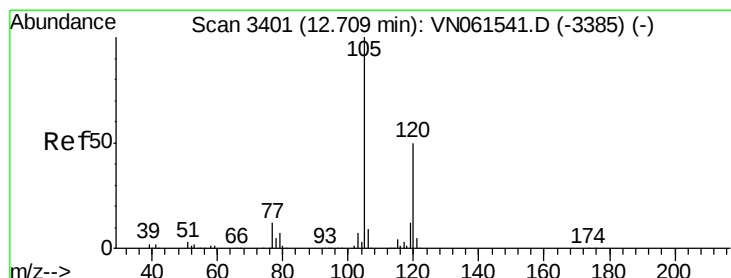
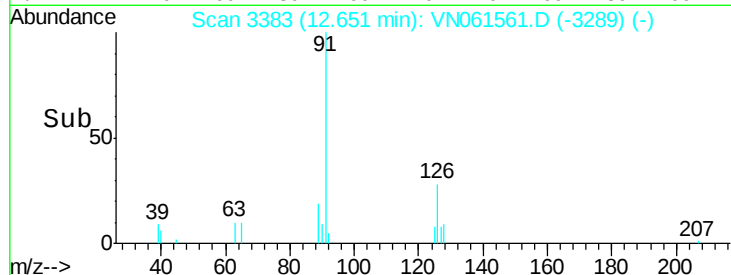
3000

2000

1000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.468 ug/l

RT: 12.71 min Scan# 3400

Delta R.T. -0.00 min

Lab File: VN061561.D

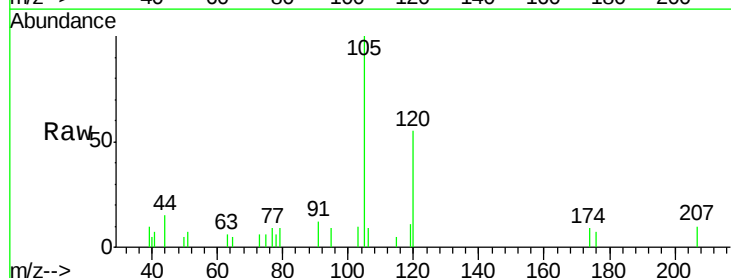
Acq: 29 May 2020 12:51

Tgt Ion: 105 Resp: 5401

Ion Ratio Lower Upper

105 100

120 50.2 25.1 75.2



Abundance Ion 105.00 (104.70 to 105.70): VN061541.D (-3385) (-)

Ion 120.00 (119.70 to 120.70): VN061541.D (-3385) (-)

12.71

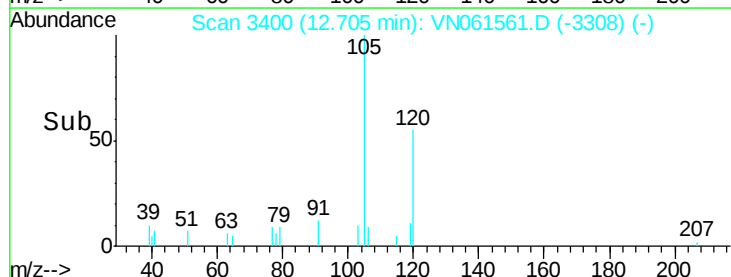
3000

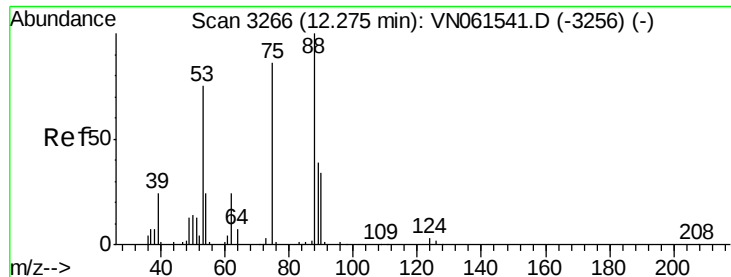
2000

1000

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 0.240 ug/l m

RT: 12.28 min Scan# 3267

Delta R.T. 0.00 min

Lab File: VN061561.D

Acq: 29 May 2020 12:51

Instrument :

MSVOA_N

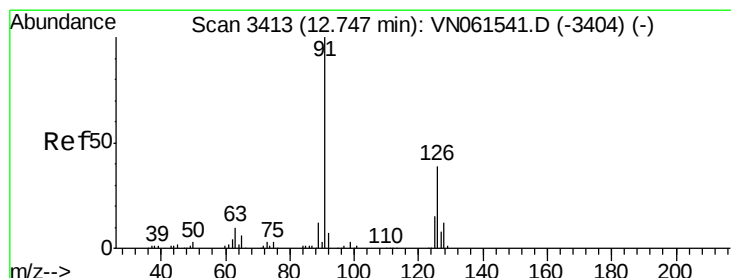
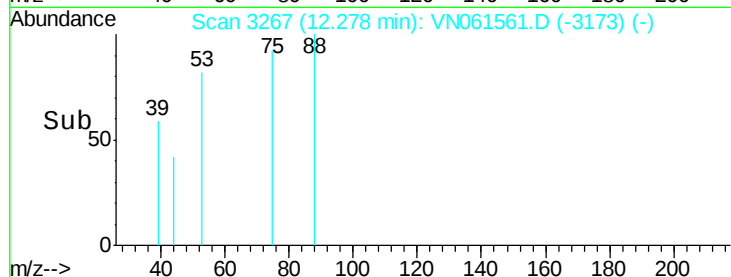
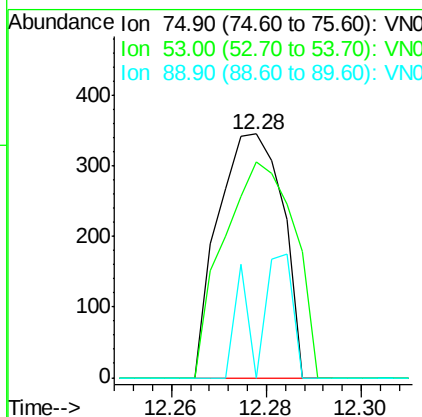
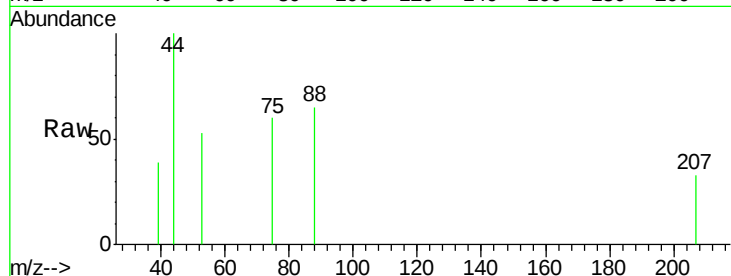
ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion:	75	Resp:	323
Ion Ratio	Lower	Upper	
75	100		
53	0.0	67.8	101.8#
89	0.0	37.1	55.7#

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#82

4-Chlorotoluene

Concen: 0.542 ug/l

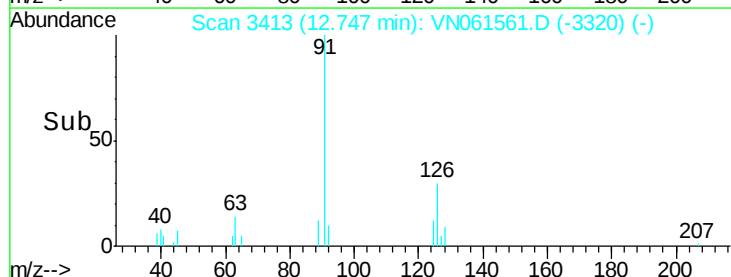
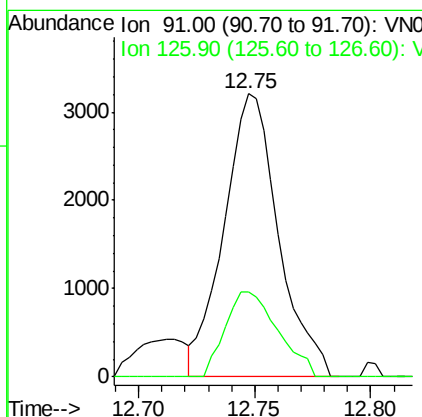
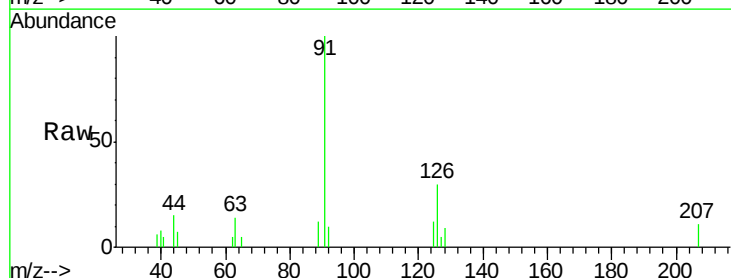
RT: 12.75 min Scan# 3413

Delta R.T. 0.00 min

Lab File: VN061561.D

Acq: 29 May 2020 12:51

Tgt Ion:	91	Resp:	5244
Ion Ratio	Lower	Upper	
91	100		
126	28.9	17.5	52.6





#83

tert-Butylbenzene

Concen: 0.498 ug/l

RT: 12.97 min Scan# 3483

Delta R.T. 0.00 min

Lab File: VN061561.D

Acq: 29 May 2020 12:51

Instrument :

MSVOA_N

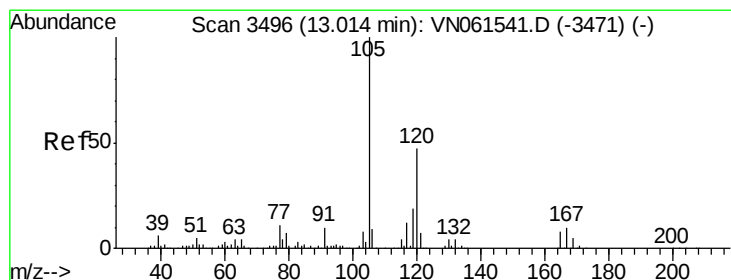
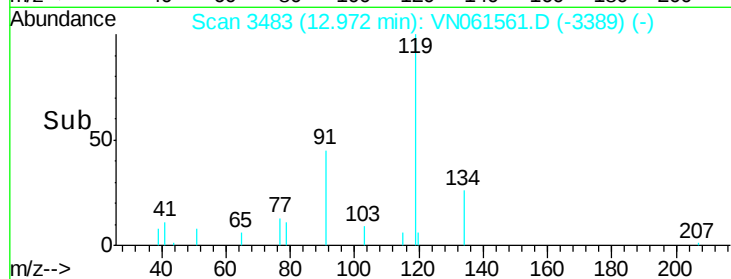
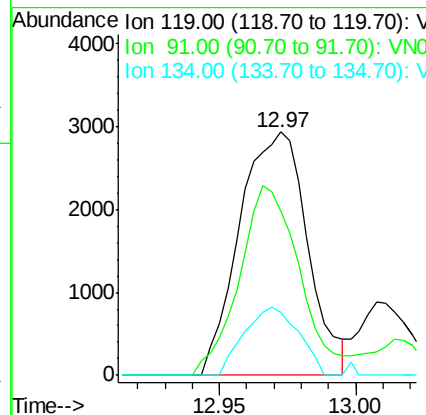
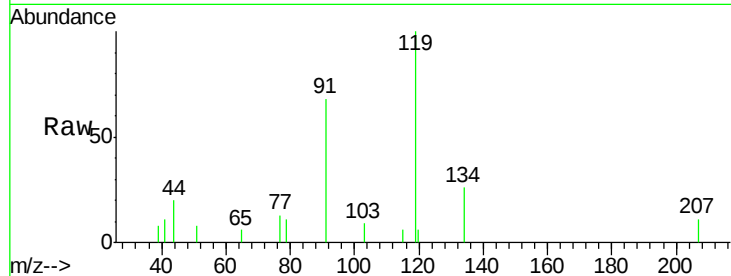
ClientSampleId :

MDL-WATER-03-QT2-2020DL

Tot Ion:	119	Resp:	5078
Ion	Ratio	Lower	Upper
119	100		
91	68.4	31.3	93.8
134	22.5	13.5	40.4

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 0.532 ug/l

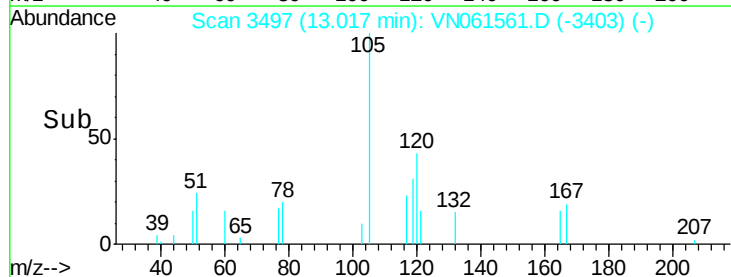
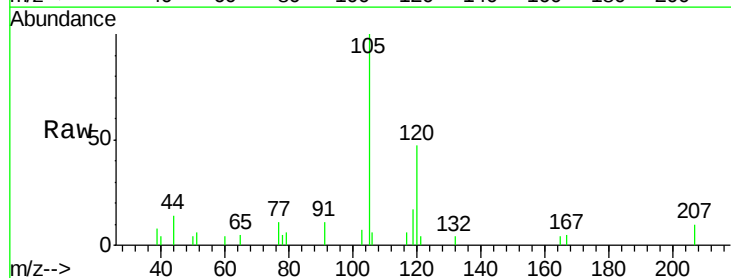
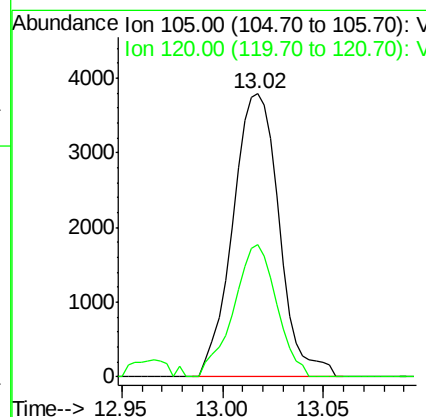
RT: 13.02 min Scan# 3497

Delta R.T. 0.00 min

Lab File: VN061561.D

Acq: 29 May 2020 12:51

Tgt Ion:	105	Resp:	6104
Ion	Ratio	Lower	Upper
105	100		
120	43.5	23.2	69.5





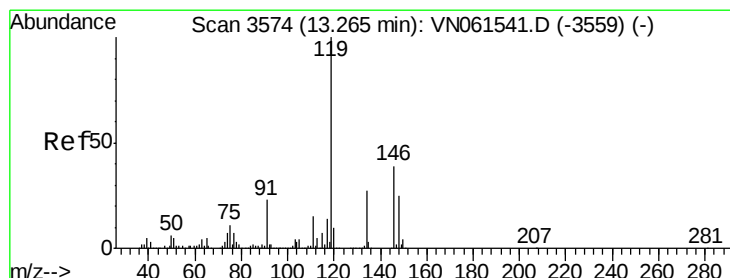
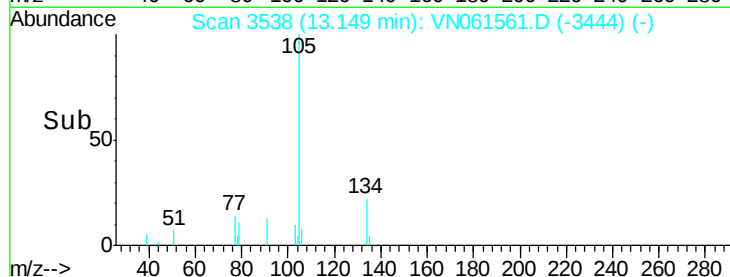
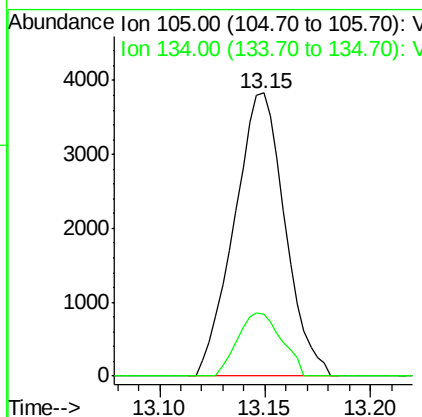
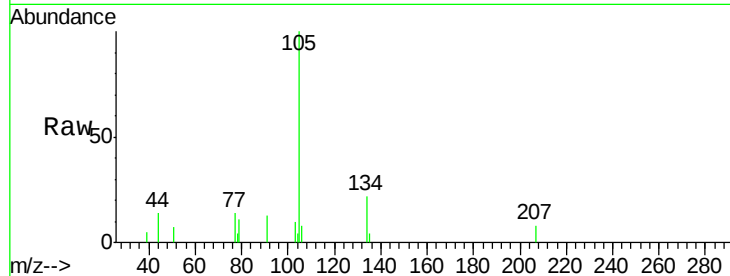
#85
 sec-Butylbenzene
 Concen: 0.487 ug/l
 RT: 13.15 min Scan# 3538
 Delta R.T. 0.00 min
 Lab File: VN061561.D
 Acq: 29 May 2020 12:51

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
105	100		
134	19.4	10.7	31.9

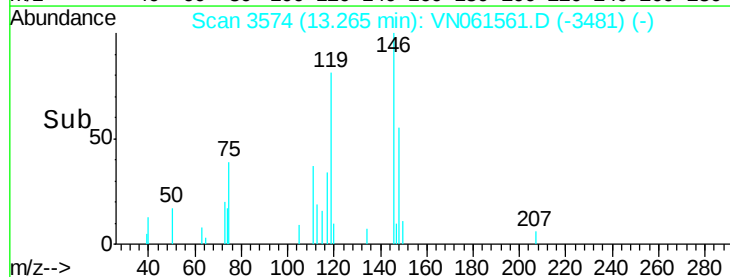
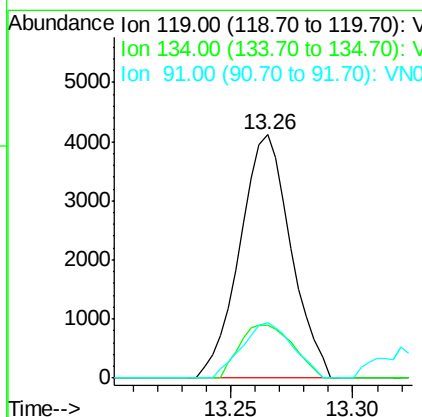
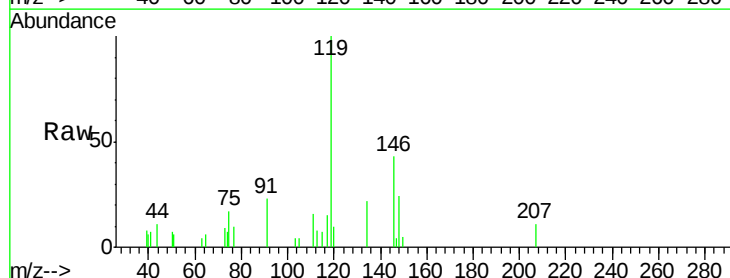
Manual Integrations
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#86
 p-Isopropyltoluene
 Concen: 0.493 ug/l
 RT: 13.26 min Scan# 3574
 Delta R.T. 0.00 min
 Lab File: VN061561.D
 Acq: 29 May 2020 12:51

Tgt Ion	Ratio	Lower	Upper
119	100		
134	22.9	13.5	40.5
91	22.8	11.4	34.1





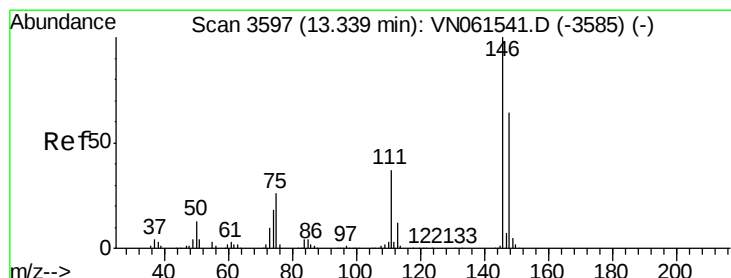
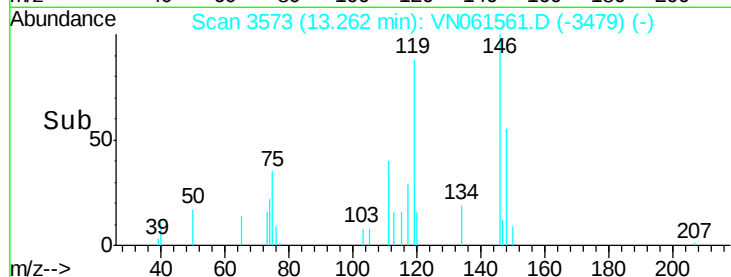
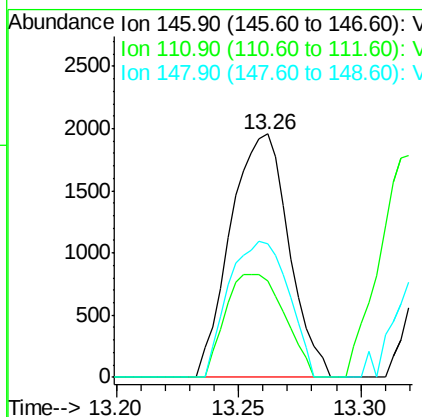
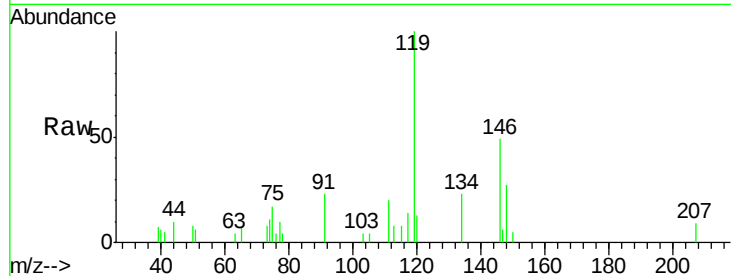
#87
 1,3-Dichlorobenzene
 Concen: 0.520 ug/l
 RT: 13.26 min Scan# 3573
 Delta R.T. 0.00 min
 Lab File: VN061561.D
 Acq: 29 May 2020 12:51

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.8	19.2	57.6
148	57.6	31.7	95.1

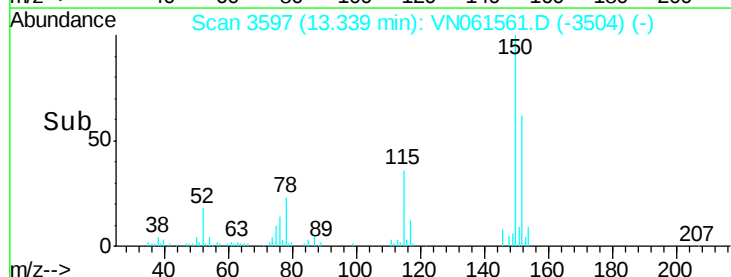
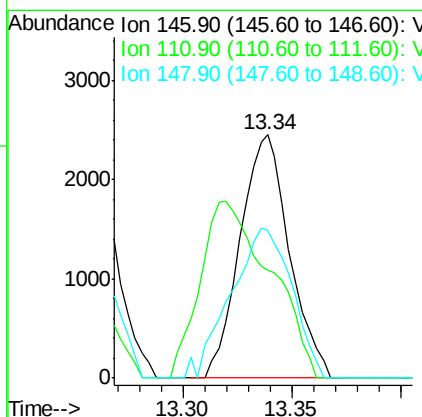
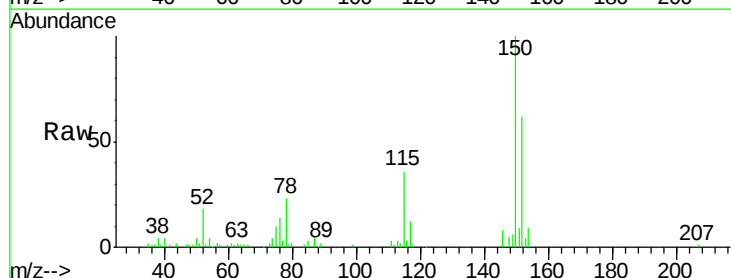
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#88
 1,4-Dichlorobenzene
 Concen: 0.607 ug/l m
 RT: 13.34 min Scan# 3597
 Delta R.T. 0.00 min
 Lab File: VN061561.D
 Acq: 29 May 2020 12:51

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.0	18.9	56.9
148	48.5	31.8	95.3





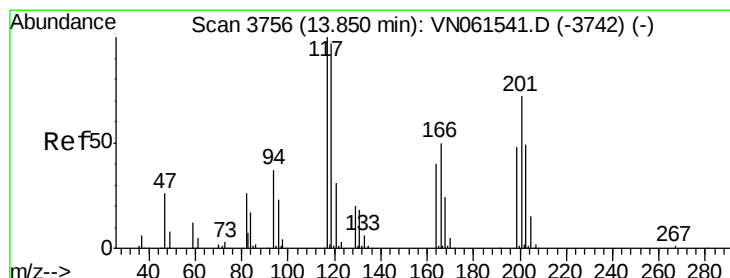
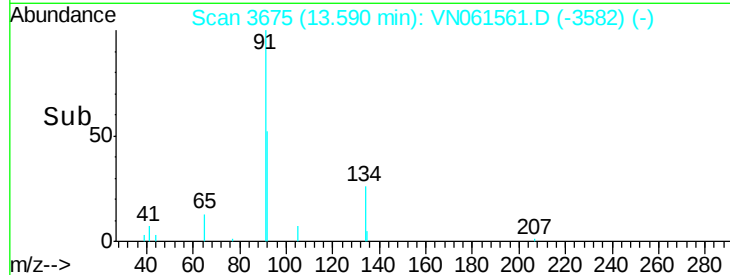
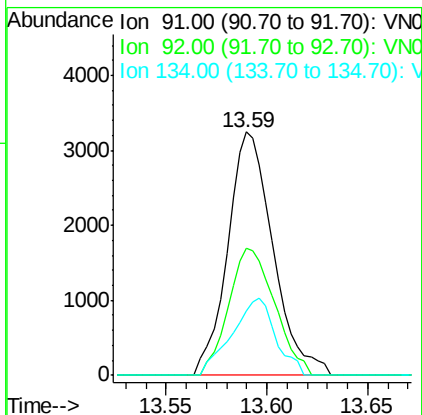
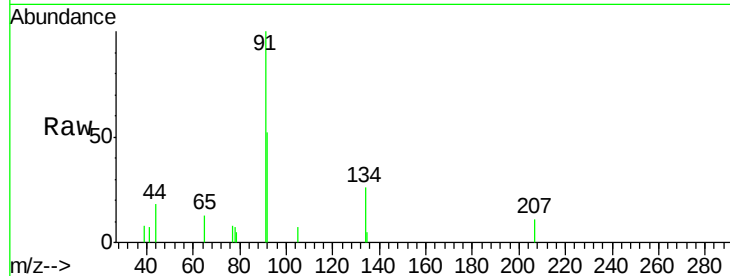
#89
n-Butylbenzene
Concen: 0.504 ug/l
RT: 13.59 min Scan# 3675
Delta R.T. 0.00 min
Lab File: VN061561.D
Acq: 29 May 2020 12:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.0	27.2	81.6
134	30.5	14.0	42.0

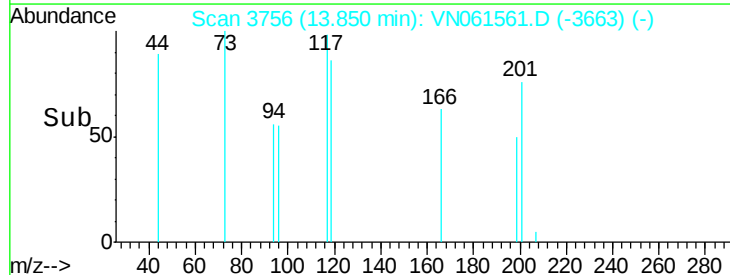
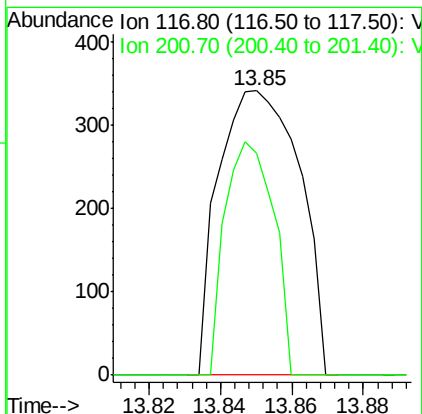
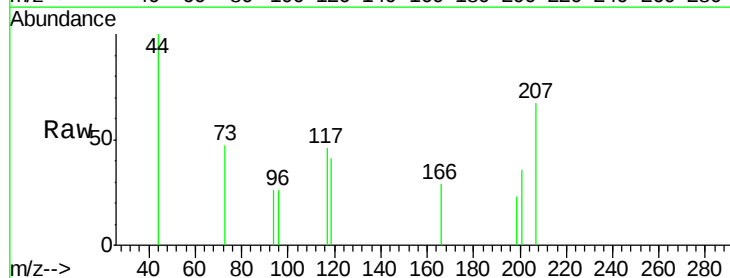
Manual Integrations
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6/1/2020 12:30:01 PM



#90
Hexachloroethane
Concen: 0.399 ug/l
RT: 13.85 min Scan# 3756
Delta R.T. 0.00 min
Lab File: VN061561.D
Acq: 29 May 2020 12:51

Tgt Ion	Ratio	Lower	Upper
117	100		
201	49.3	36.7	110.1





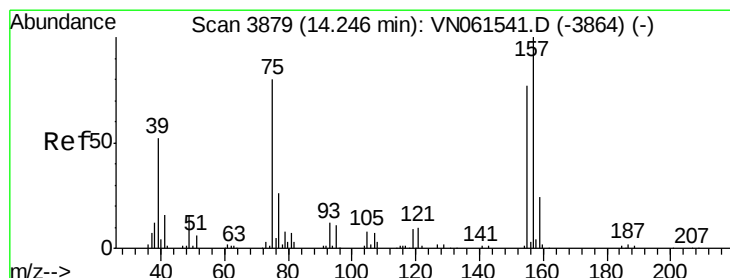
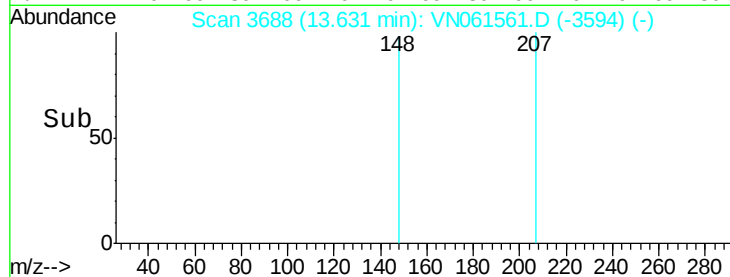
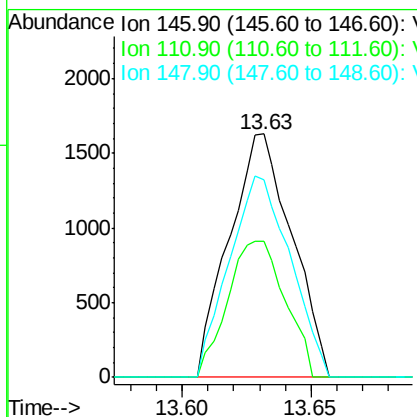
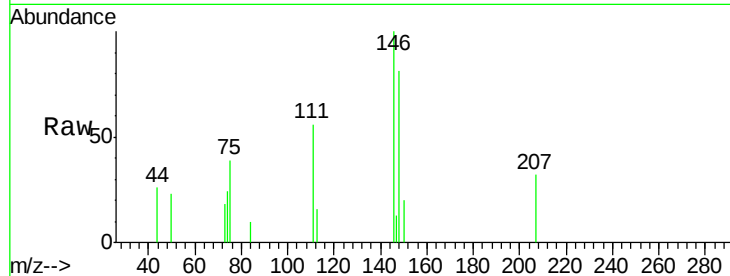
#91
 1,2-Dichlorobenzene
 Concen: 0.462 ug/l
 RT: 13.63 min Scan# 3688
 Delta R.T. 0.00 min
 Lab File: VN061561.D
 Acq: 29 May 2020 12:51

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
146	100		
111	51.3	20.1	60.2
148	80.7	31.9	95.5

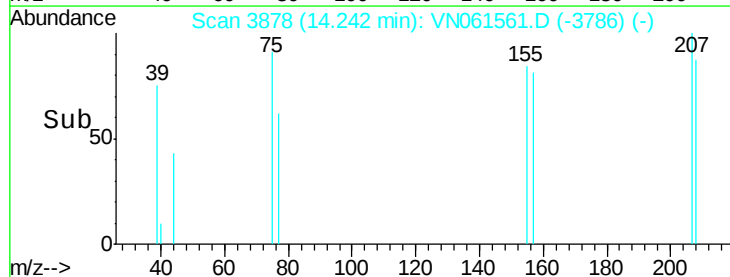
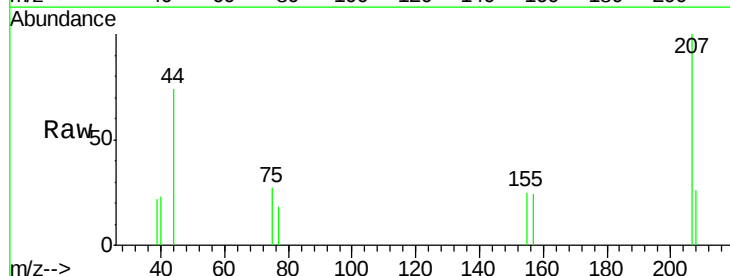
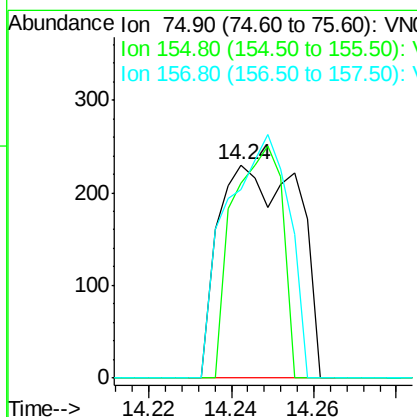
Manual Integrations
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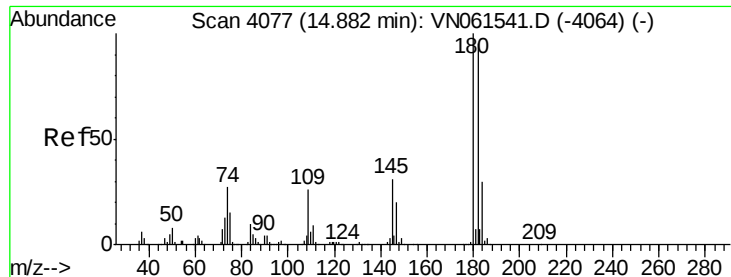
MMDadoda
 6/1/2020 12:30:01 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.391 ug/l m
 RT: 14.24 min Scan# 3878
 Delta R.T. -0.00 min
 Lab File: VN061561.D
 Acq: 29 May 2020 12:51

Tgt Ion	Ratio	Lower	Upper
75	100		
155	68.3	47.1	141.4
157	89.6	60.3	180.8





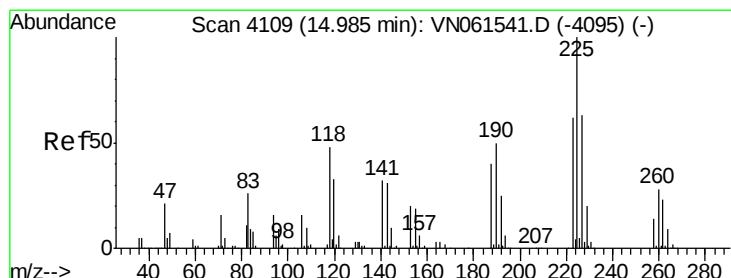
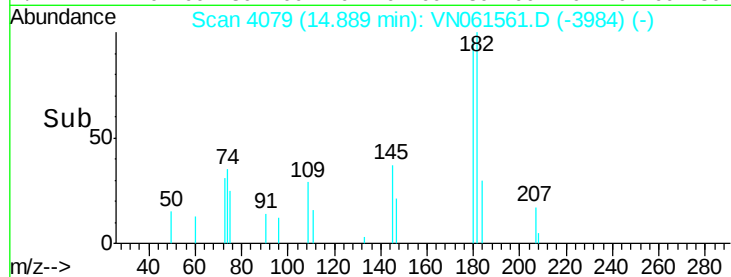
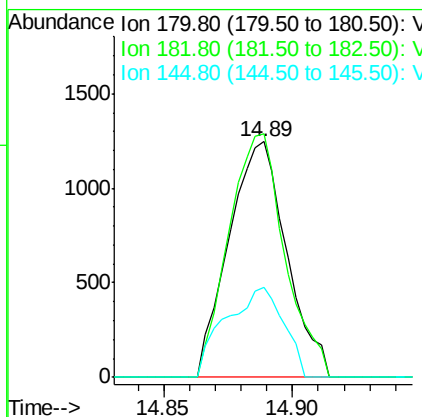
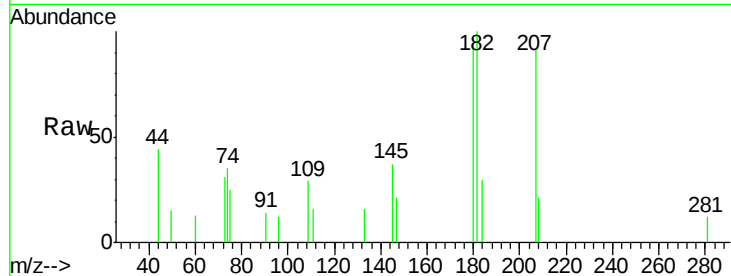
#93
 1,2,4-Trichlorobenzene
 Concen: 0.558 ug/l
 RT: 14.89 min Scan# 4079
 Delta R.T. 0.01 min
 Lab File: VN061561.D
 Acq: 29 May 2020 12:51

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT2-2020DL

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	100.2	47.8	143.3	
145	38.2	15.5	46.5	

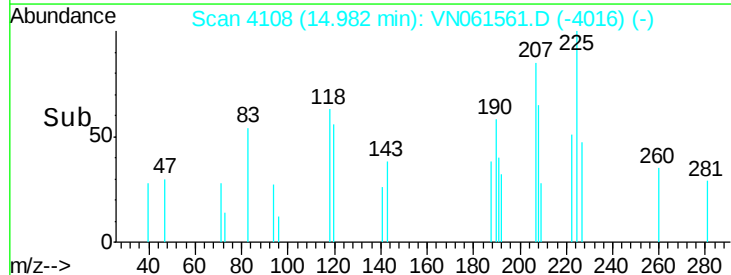
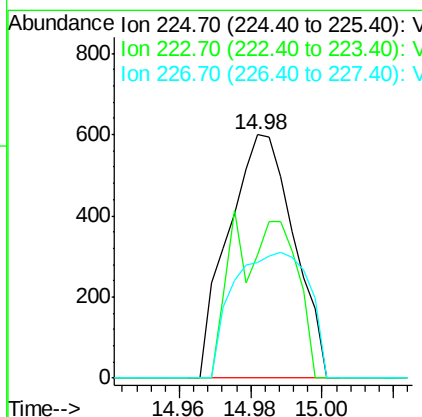
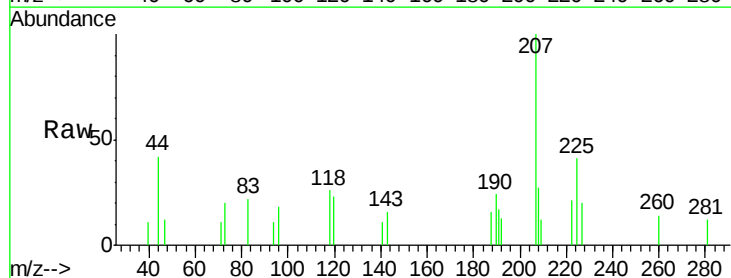
Manual Integrations
 APPROVED

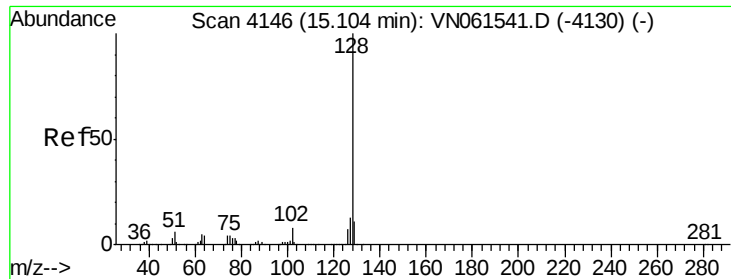
MMDadoda
 6/1/2020 12:30:01 PM



#94
 Hexachlorobutadiene
 Concen: 0.511 ug/l
 RT: 14.98 min Scan# 4108
 Delta R.T. -0.00 min
 Lab File: VN061561.D
 Acq: 29 May 2020 12:51

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	33.0	31.9	95.5	
227	59.7	31.9	95.9	





#95

Naphthalene

Concen: 0.656 ug/l

RT: 15.11 min Scan# 4147

Delta R.T. 0.00 min

Lab File: VN061561.D

Acq: 29 May 2020 12:51

Instrument :

MSVOA_N

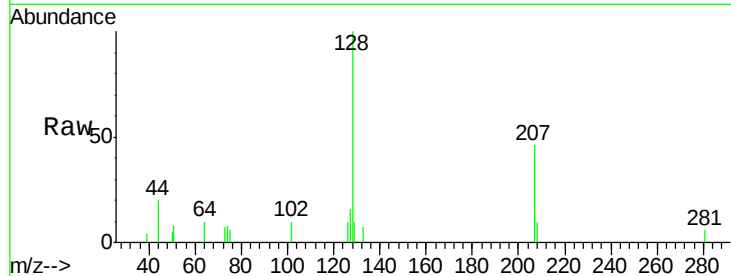
ClientSampleId :

MDL-WATER-03-QT2-2020DL

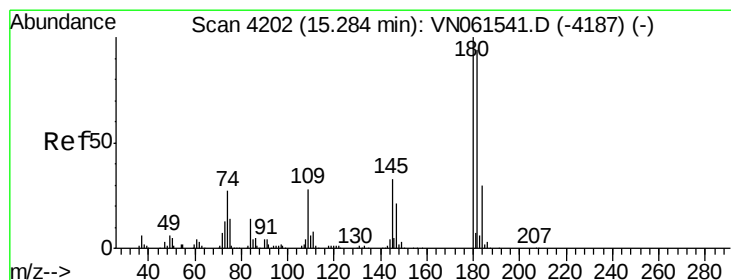
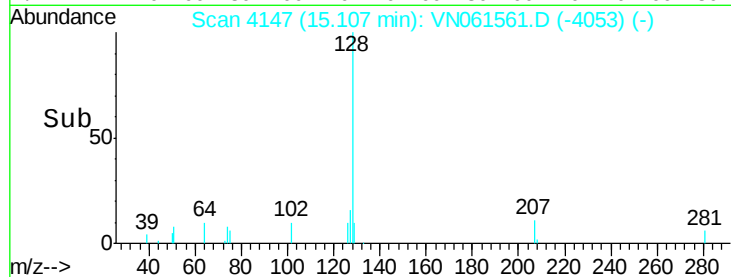
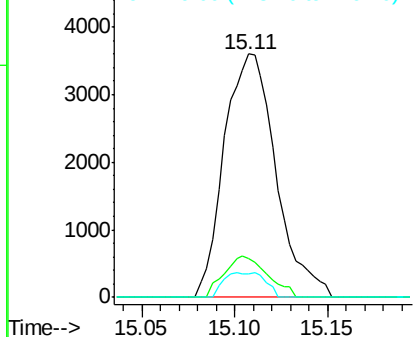
Tot Ion:	128	Resp:	6968
Ion Ratio	Lower	Upper	
128	100		
127	14.2	10.0	15.0
129	4.2	8.5	12.7#

Manual Integrations
APPROVED

MMDadoda
6/1/2020 12:30:01 PM



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 0.607 ug/l

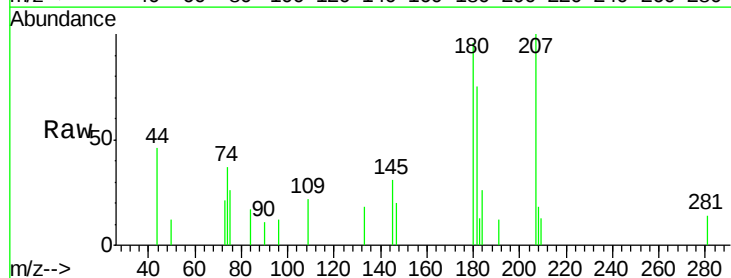
RT: 15.29 min Scan# 4203

Delta R.T. 0.00 min

Lab File: VN061561.D

Acq: 29 May 2020 12:51

Tgt Ion:	180	Resp:	2083
Ion Ratio	Lower	Upper	
180	100		
182	94.0	47.1	141.3
145	18.5	16.3	48.9



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

