

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052820\
 Data File : VN061549.D
 Acq On : 28 May 2020 23:13
 Operator : JC/MD
 Sample : L2182-07 .5PPB LOD
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT2-2020

Manual Integrations
 APPROVED

MMDadoda
 5/29/2020 5:50:28 PM

Quant Time: May 29 07:35:28 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 29 02:45:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	303192	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	539107	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	488285	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	204587	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	202289	56.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.00%	
35) Dibromofluoromethane	7.55	113	154825	56.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.22%	
50) Toluene-d8	10.06	98	636044	50.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.38%	
62) 4-Bromofluorobenzene	12.38	95	211387	45.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.44%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	1501	0.474	ug/l	90
3) Chloromethane	2.03	50	2509	0.678	ug/l	94
4) Vinyl Chloride	2.16	62	2725	0.538	ug/l #	79
5) Bromomethane	2.54	94	2940	1.011	ug/l	95
6) Chloroethane	2.67	64	1881	0.577	ug/l	93
7) Trichlorofluoromethane	2.97	101	3743	0.573	ug/l	93
8) Diethyl Ether	3.38	74	971	0.486	ug/l	68
9) 1,1,2-Trichlorotrifluoroet	3.72	101	1599m	0.551	ug/l	
10) Methyl Iodide	3.91	142	2960	0.735	ug/l #	68
11) Tert butyl alcohol	4.73	59	1125m	2.341	ug/l	
12) 1,1-Dichloroethene	3.71	96	1789m	0.577	ug/l	
13) Acrolein	3.56	56	631m	3.425	ug/l	
14) Allyl chloride	4.27	41	2539m	0.627	ug/l	
15) Acrylonitrile	4.94	53	3592m	2.678	ug/l	
16) Acetone	3.78	43	5759	4.507	ug/l	97
17) Carbon Disulfide	4.00	76	5328	0.782	ug/l	100
18) Methyl Acetate	4.27	43	2116	0.647	ug/l #	61
19) Methyl tert-butyl Ether	4.99	73	5508	0.522	ug/l	98
20) Methylene Chloride	4.51	84	2430m	0.549	ug/l	
21) trans-1,2-Dichloroethene	4.99	96	2193m	0.628	ug/l	
22) Diisopropyl ether	5.90	45	4655	0.521	ug/l #	89
23) Vinyl Acetate	5.85	43	16347	2.298	ug/l	98
24) 1,1-Dichloroethane	5.80	63	2968m	0.524	ug/l	
25) 2-Butanone	6.80	43	5047	2.948	ug/l	95
26) 2,2-Dichloropropane	6.77	77	2918	0.563	ug/l #	67
27) cis-1,2-Dichloroethene	6.79	96	2295m	0.580	ug/l	
28) Bromochloromethane	7.16	49	564m	0.231	ug/l	
29) Tetrahydrofuran	7.17	42	2939	2.603	ug/l	94
30) Chloroform	7.33	83	3496	0.558	ug/l	98
31) Cyclohexane	7.62	56	8992	1.766	ug/l #	36
32) 1,1,1-Trichloroethane	7.53	97	3080	0.540	ug/l #	49
36) 1,1-Dichloropropene	7.75	75	2636	0.552	ug/l	95
37) Ethyl Acetate	6.88	43	2306m	0.600	ug/l	
38) Carbon Tetrachloride	7.73	117	1857m	0.403	ug/l	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.05	83	2861	0.486	ug/l	96
40) Benzene	8.00	78	7536	0.512	ug/l	96
41) Methacrylonitrile	7.13	41	766m	0.435	ug/l	
42) 1,2-Dichloroethane	8.09	62	2948	0.598	ug/l	77
43) Isopropyl Acetate	8.13	43	3530	0.510	ug/l #	84
44) Trichloroethene	8.80	130	2494	0.551	ug/l	90
45) 1,2-Dichloropropane	9.09	63	1856	0.531	ug/l #	81
46) Dibromomethane	9.17	93	1305	0.487	ug/l	90
47) Bromodichloromethane	9.37	83	2445	0.460	ug/l #	97
48) Methyl methacrylate	9.17	41	1741	0.560	ug/l #	78
49) 1,4-Dioxane	9.16	88	273	5.664	ug/l #	11
51) 4-Methyl-2-Pentanone	9.95	43	8820	2.263	ug/l	98
52) Toluene	10.12	92	4712	0.490	ug/l	93
53) t-1,3-Dichloropropene	10.36	75	2511	0.439	ug/l	98
54) cis-1,3-Dichloropropene	9.81	75	2714	0.441	ug/l #	90
55) 1,1,2-Trichloroethane	10.54	97	1711	0.447	ug/l	96
56) Ethyl methacrylate	10.40	69	2075	0.388	ug/l #	79
57) 1,3-Dichloropropane	10.68	76	2766	0.452	ug/l	95
58) 2-Chloroethyl Vinyl ether	9.67	63	4898	2.143	ug/l	99
59) 2-Hexanone	10.73	43	6570	2.347	ug/l	84
60) Dibromochloromethane	10.88	129	1637	0.376	ug/l	86
61) 1,2-Dibromoethane	10.98	107	1813	0.454	ug/l	99
64) Tetrachloroethene	10.61	164	2148	0.467	ug/l	92
65) Chlorobenzene	11.41	112	5459	0.538	ug/l	94
66) 1,1,1,2-Tetrachloroethane	11.48	131	1678	0.444	ug/l #	61
67) Ethyl Benzene	11.49	91	9629	0.549	ug/l	95
68) m/p-Xylenes	11.59	106	6763	0.972	ug/l	91
69) o-Xylene	11.92	106	3306	0.500	ug/l	91
70) Styrene	11.94	104	5309	0.485	ug/l	99
71) Bromoform	12.10	173	960	0.330	ug/l #	89
73) Isopropylbenzene	12.22	105	8751	0.586	ug/l	95
74) N-amyl acetate	12.05	43	2423	0.515	ug/l #	80
75) 1,1,2,2-Tetrachloroethane	12.48	83	2273	0.543	ug/l	93
76) 1,2,3-Trichloropropane	12.53	75	2248m	0.604	ug/l	
77) Bromobenzene	12.50	156	2283	0.599	ug/l	77
78) n-propylbenzene	12.57	91	9650	0.579	ug/l	98
79) 2-Chlorotoluene	12.65	91	5762	0.580	ug/l	91
80) 1,3,5-Trimethylbenzene	12.71	105	6240	0.500	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.27	75	546m	0.375	ug/l	
82) 4-Chlorotoluene	12.75	91	6527	0.624	ug/l	90
83) tert-Butylbenzene	12.97	119	5611	0.509	ug/l	95
84) 1,2,4-Trimethylbenzene	13.02	105	6781	0.547	ug/l	95
85) sec-Butylbenzene	13.15	105	7212	0.508	ug/l	99
86) p-Isopropyltoluene	13.26	119	6519	0.498	ug/l	84
87) 1,3-Dichlorobenzene	13.26	146	4239	0.628	ug/l	92
88) 1,4-Dichlorobenzene	13.34	146	4588m	0.667	ug/l	
89) n-Butylbenzene	13.59	91	6721	0.613	ug/l	89
90) Hexachloroethane	13.85	117	542	0.375	ug/l	68
91) 1,2-Dichlorobenzene	13.63	146	3780	0.586	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.24	75	472	0.553	ug/l	75

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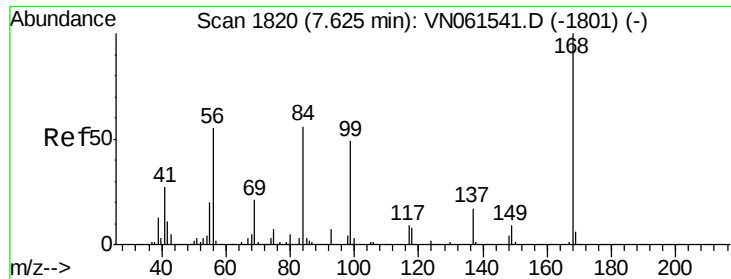
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.89	180	2722	0.722	ug/l	92
94) Hexachlorobutadiene	14.98	225	1103	0.686	ug/l	86
95) Naphthalene	15.11	128	8109	0.706	ug/l	97
96) 1,2,3-Trichlorobenzene	15.29	180	2497	0.673	ug/l	95

(#) = 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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Tot Ion:168 Resp: 303192

Ion Ratio Lower Upper

168 100

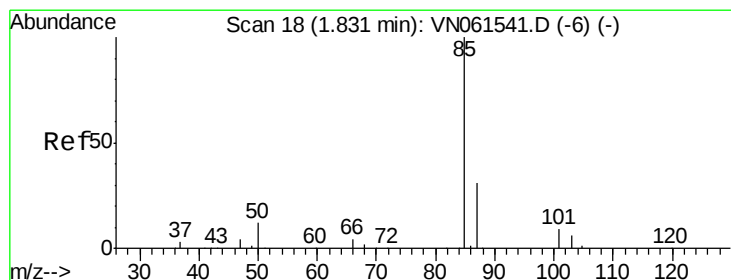
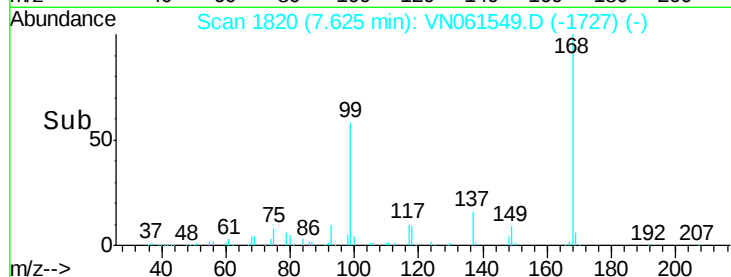
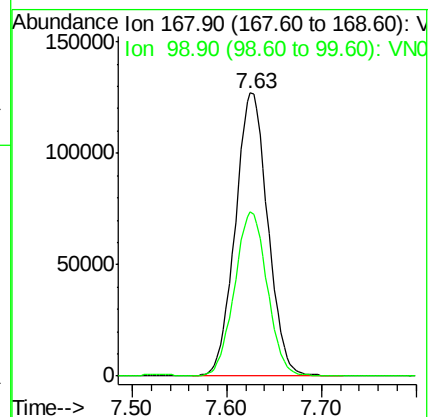
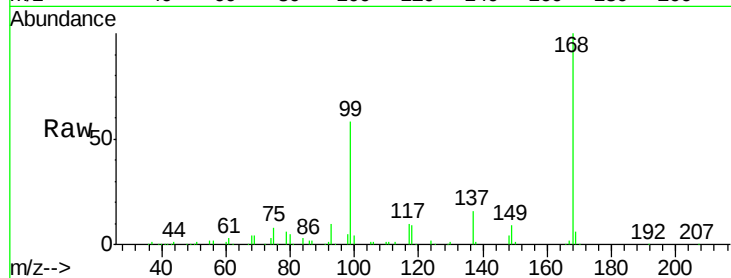
99 57.9 45.0 67.4

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 0.474 ug/l

RT: 1.83 min Scan# 18

Delta R.T. 0.00 min

Lab File: VN061549.D

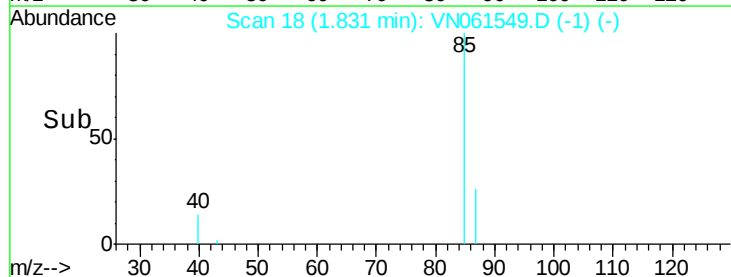
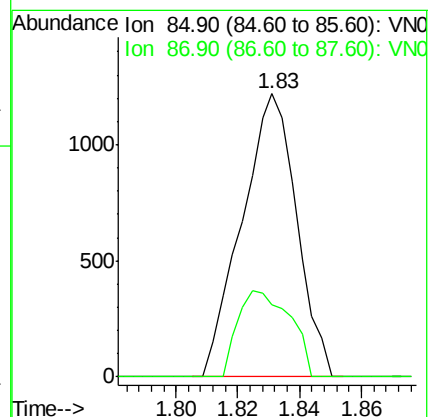
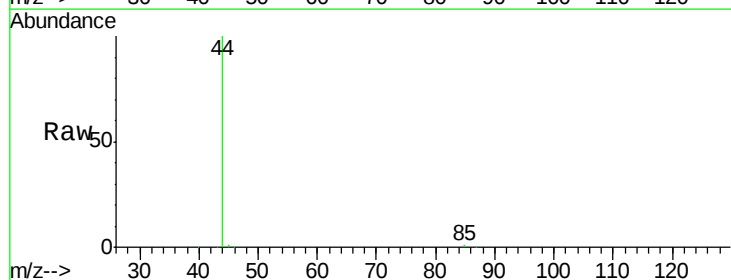
Acq: 28 May 2020 23:13

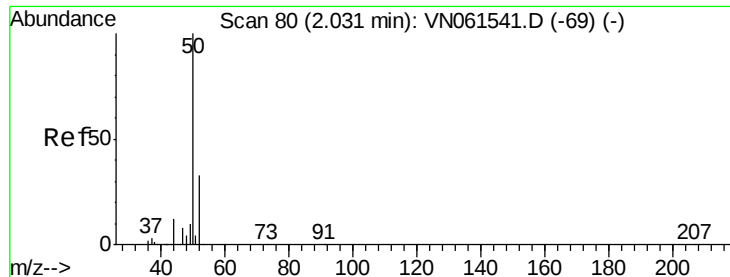
Tgt Ion: 85 Resp: 1501

Ion Ratio Lower Upper

85 100

87 25.5 15.6 46.8





#3

Chloromethane

Concen: 0.678 ug/l

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN061549.D

Acq: 28 May 2020 23:13

Instrument :

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ClientSampleId :

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Tot Ion: 50 Resp: 2509

Ion Ratio Lower Upper

50 100

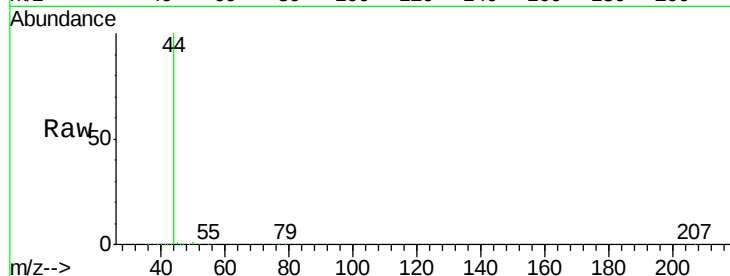
52 37.0 26.7 40.1

Manual Integrations

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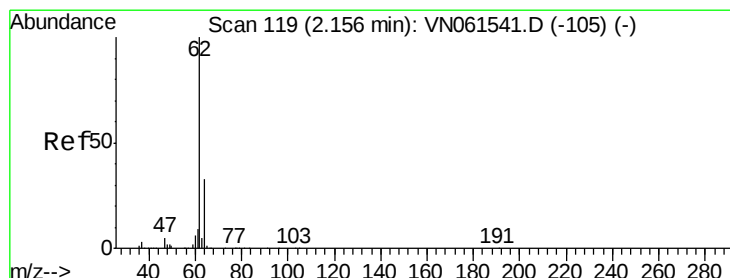
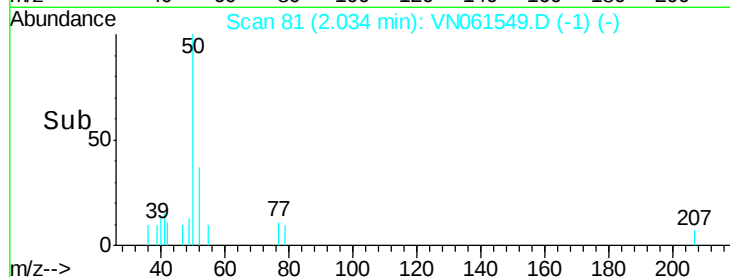
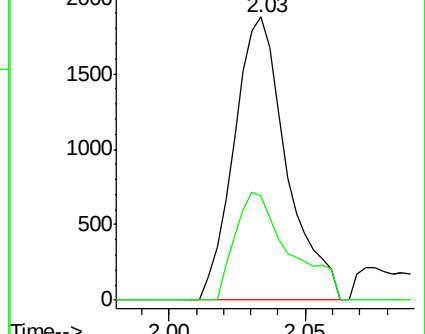
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Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



#4

Vinyl Chloride

Concen: 0.538 ug/l

RT: 2.16 min Scan# 119

Delta R.T. -0.00 min

Lab File: VN061549.D

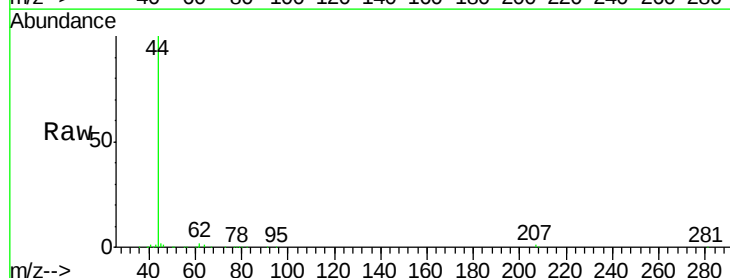
Acq: 28 May 2020 23:13

Tgt Ion: 62 Resp: 2725

Ion Ratio Lower Upper

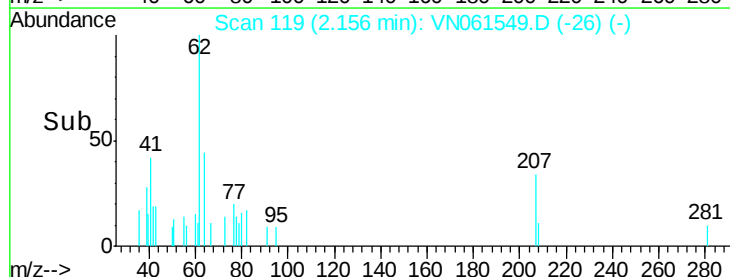
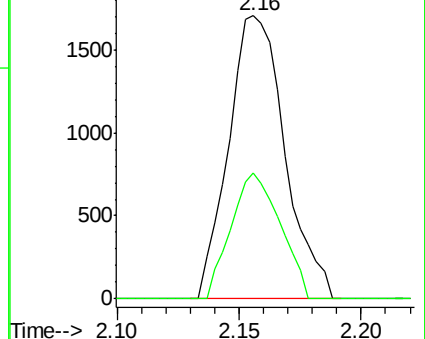
62 100

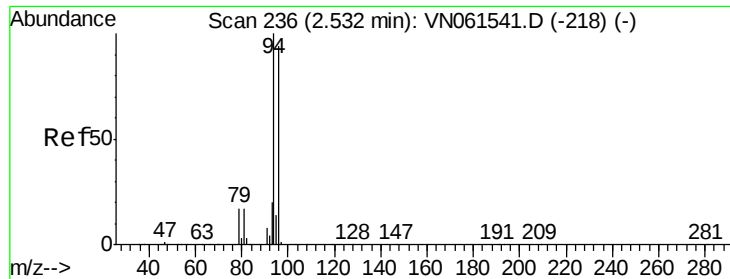
64 44.3 26.2 39.2#



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0





#5

Bromomethane

Concen: 1.011 ug/l

RT: 2.54 min Scan# 239

Delta R.T. 0.01 min

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Tot Ion: 94 Resp: 2940

Ion Ratio Lower Upper

94 100

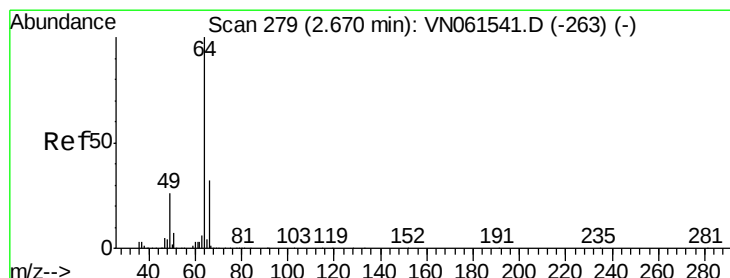
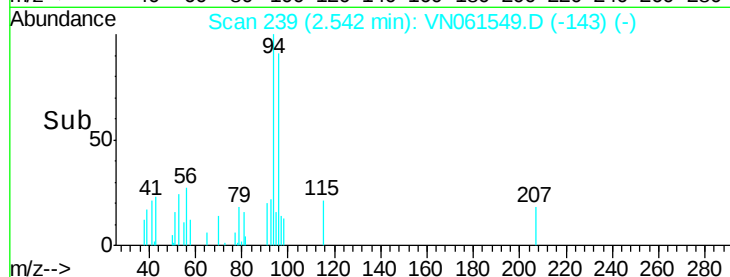
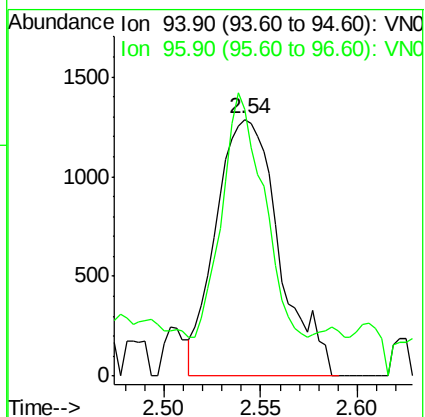
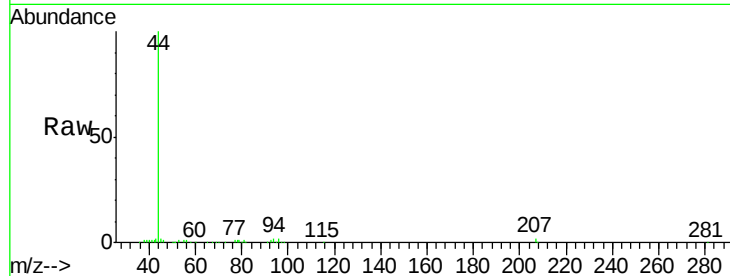
96 88.8 74.8 112.2

Manual Integrations

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#6

Chloroethane

Concen: 0.577 ug/l

RT: 2.67 min Scan# 278

Delta R.T. -0.00 min

Lab File: VN061549.D

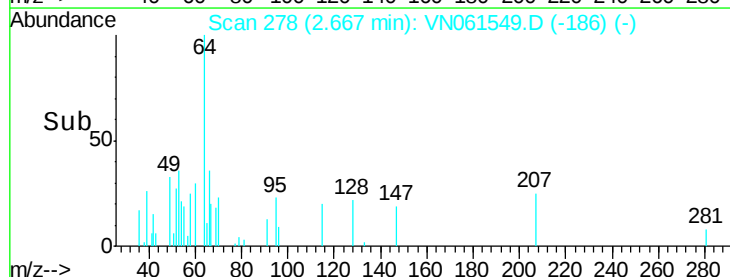
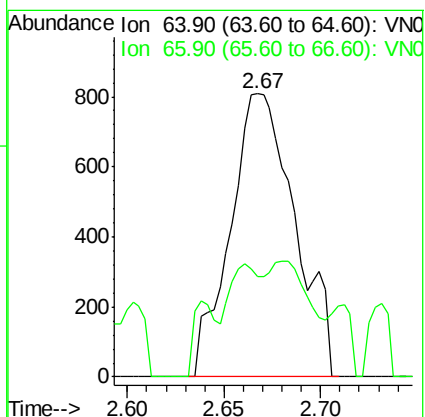
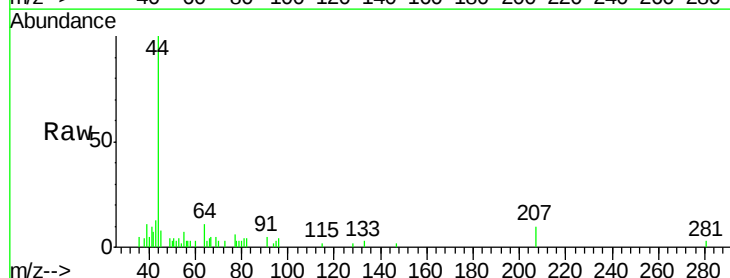
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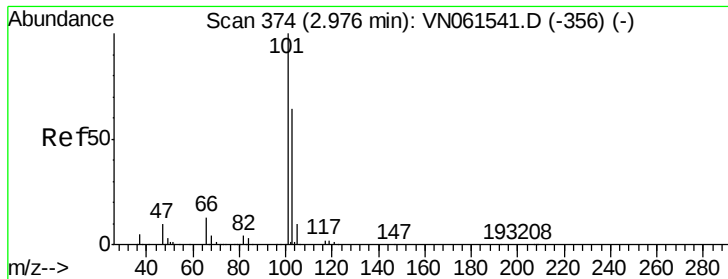
Tgt Ion: 64 Resp: 1881

Ion Ratio Lower Upper

64 100

66 35.6 25.6 38.4





#7

Trichlorofluoromethane

Concen: 0.573 ug/l

RT: 2.97 min Scan# 373

Delta R.T. -0.00 min

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Tot Ion:101 Resp: 3743

Ion Ratio Lower Upper

101 100

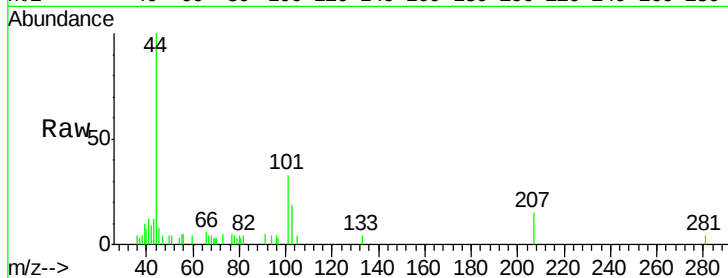
103 58.4 51.4 77.2

Manual Integrations

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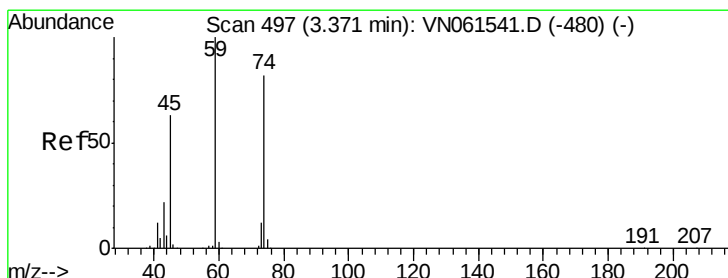
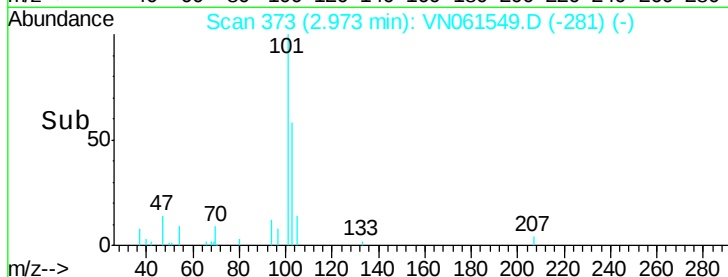
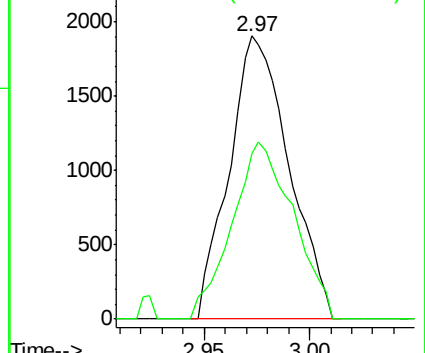
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Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 0.486 ug/l

RT: 3.38 min Scan# 499

Delta R.T. 0.01 min

Lab File: VN061549.D

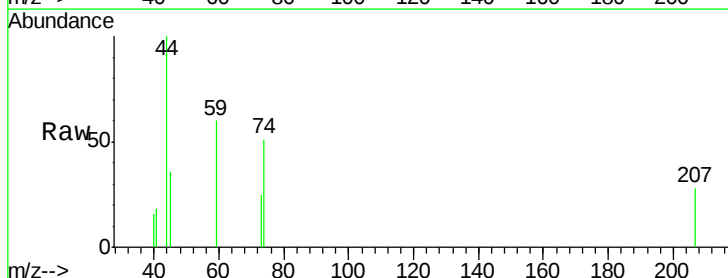
Acq: 28 May 2020 23:13

Tgt Ion: 74 Resp: 971

Ion Ratio Lower Upper

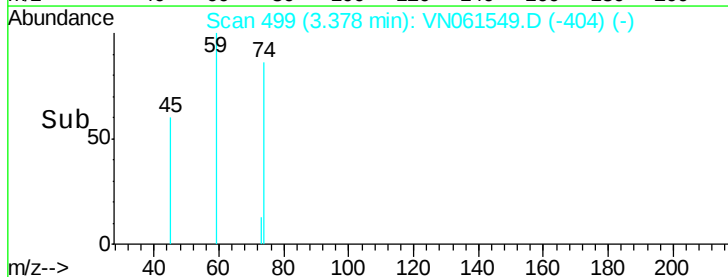
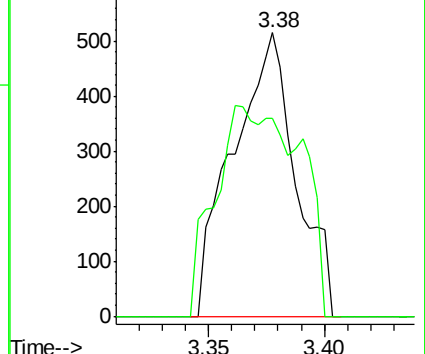
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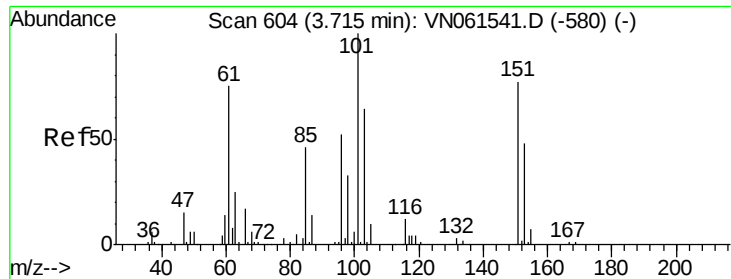
45 51.2 39.9 119.7



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO





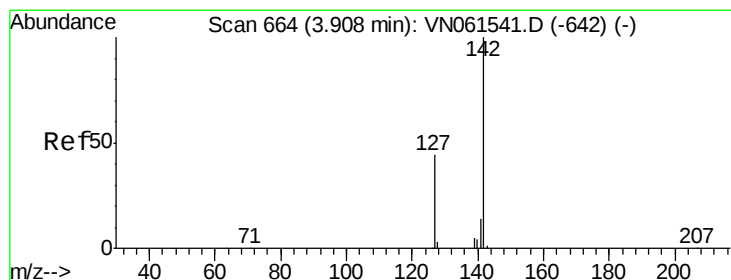
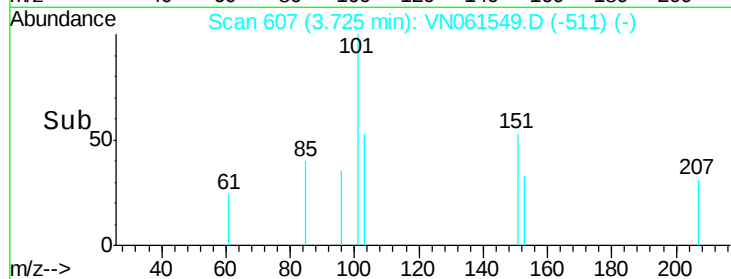
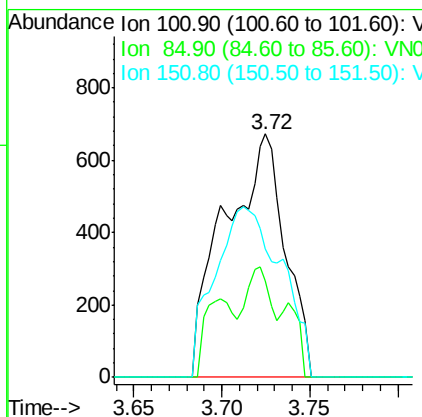
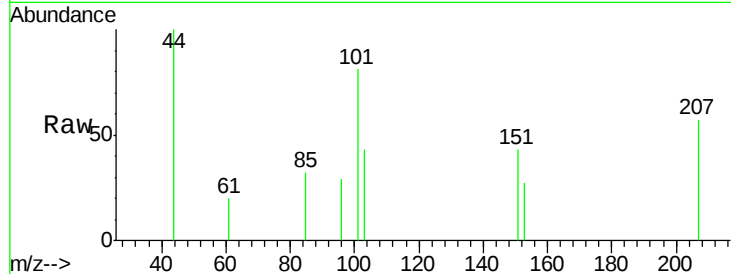
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.551 ug/l m
 RT: 3.72 min Scan# 607
 Delta R.T. 0.01 min
 Lab File: VN061549.D
 Acq: 28 May 2020 23:13

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT2-2020

Tot Ion	Ratio	Resp	Lower	Upper
101	100	1599		
85	10.0	35.2	52.8#	
151	77.5	61.0	91.6	

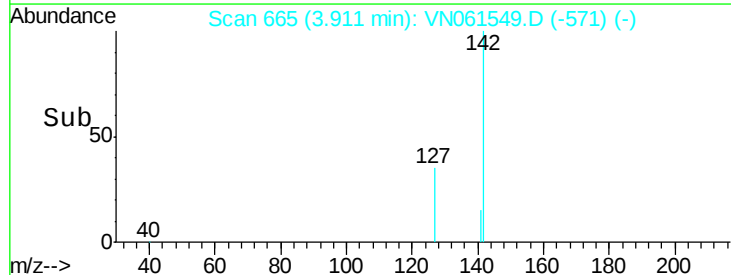
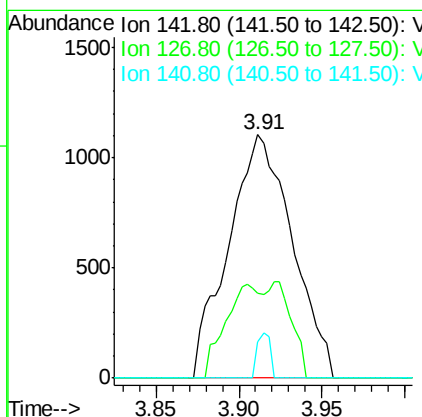
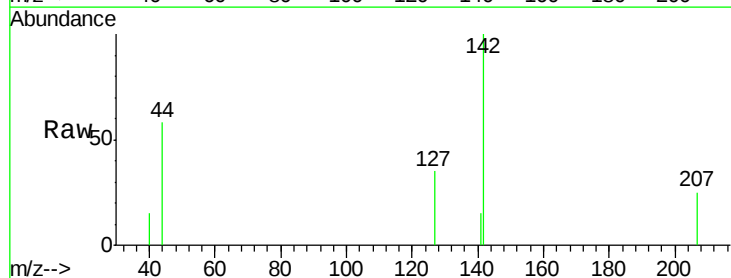
Manual Integrations
 APPROVED

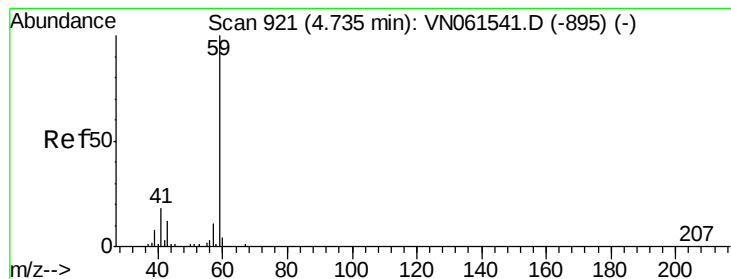
MMDadoda
 5/29/2020 5:50:28 PM



#10
 Methyl Iodide
 Concen: 0.735 ug/l
 RT: 3.91 min Scan# 665
 Delta R.T. 0.00 min
 Lab File: VN061549.D
 Acq: 28 May 2020 23:13

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	2960		
127	22.5	35.5	53.3#	
141	3.6	11.5	17.3#	





#11

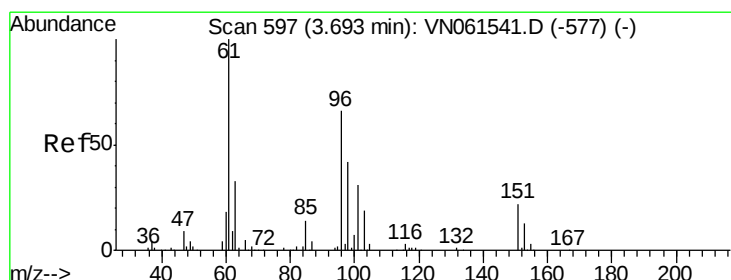
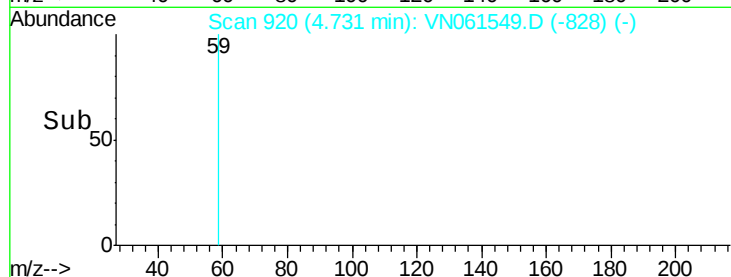
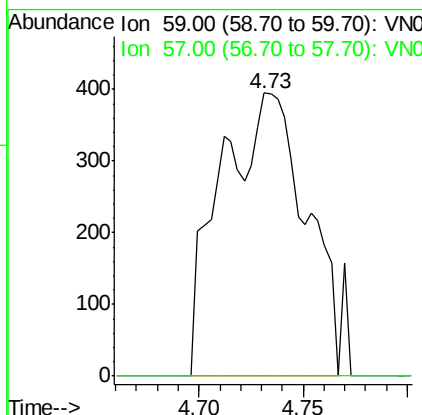
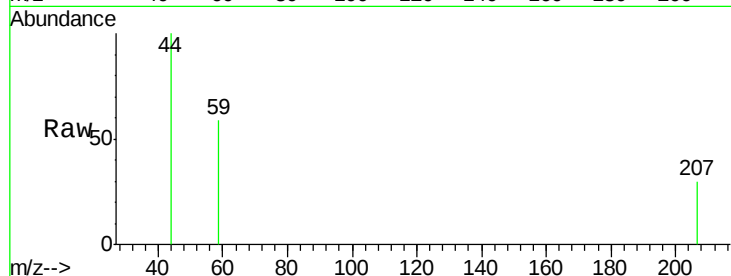
Tert butyl alcohol
Concen: 2.341 ug/l m
RT: 4.73 min Scan# 920
Delta R.T. -0.00 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2020

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

Manual Integrations
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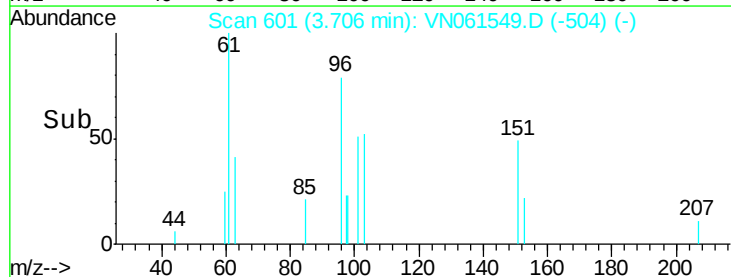
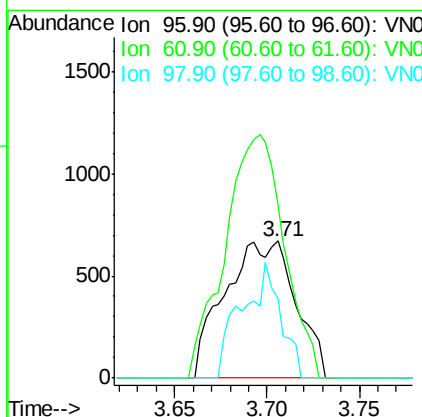
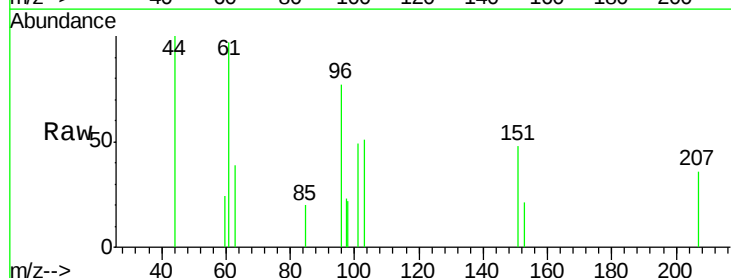
MMDadoda
5/29/2020 5:50:28 PM

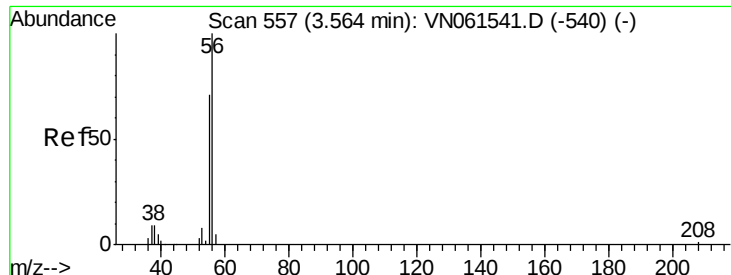


#12

1,1-Dichloroethene
Concen: 0.577 ug/l m
RT: 3.71 min Scan# 601
Delta R.T. 0.01 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Tgt Ion	Ratio	Lower	Upper
96	100		
61	126.0	120.5	180.7
98	29.5	50.8	76.2#





#13

Acrolein

Concen: 3.425 ug/l m

RT: 3.56 min Scan# 555

Delta R.T. -0.01 min

Lab File: VN061549.D

Acq: 28 May 2020 23:13

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT2-2020

Tot Ion: 56 Resp: 631

Ion Ratio Lower Upper

56 100

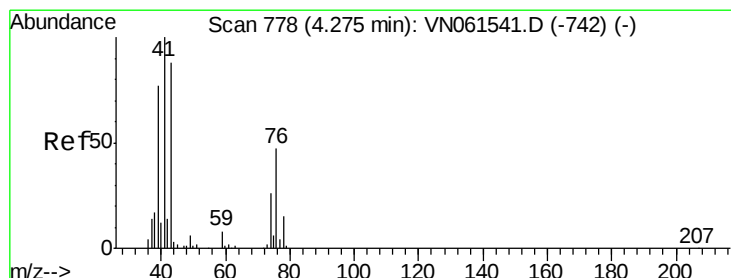
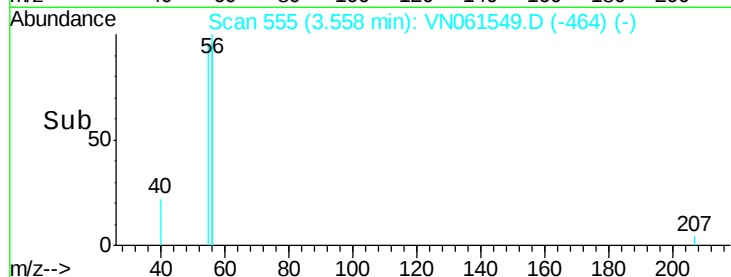
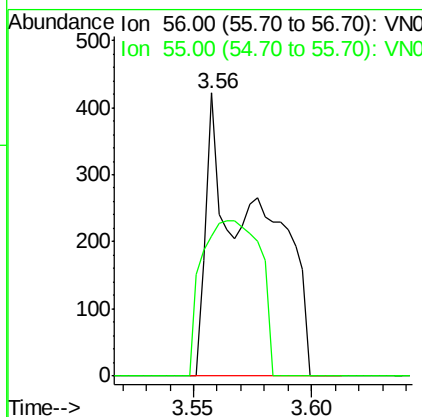
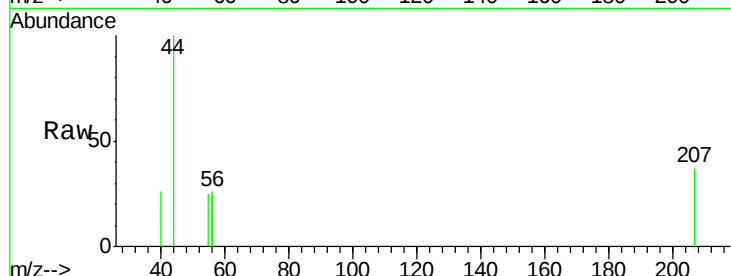
55 62.6 58.0 87.0

Manual Integrations

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#14

Allyl chloride

Concen: 0.627 ug/l m

RT: 4.27 min Scan# 777

Delta R.T. -0.00 min

Lab File: VN061549.D

Acq: 28 May 2020 23:13

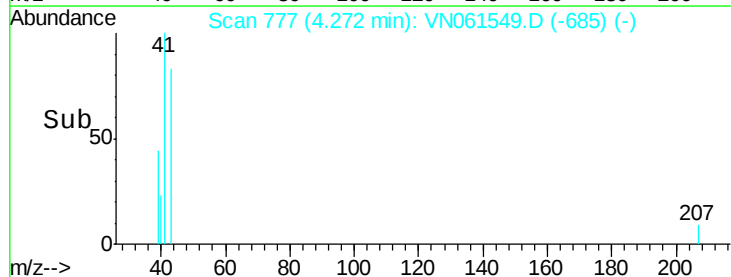
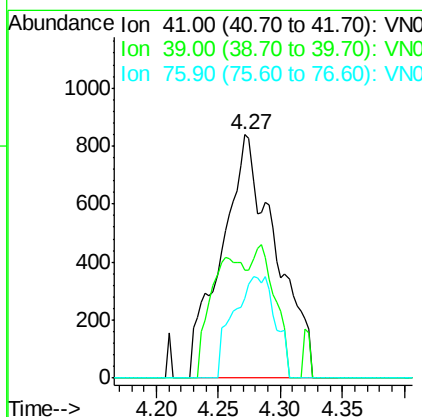
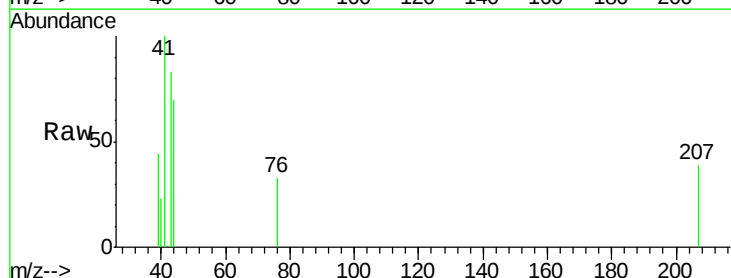
Tgt Ion: 41 Resp: 2539

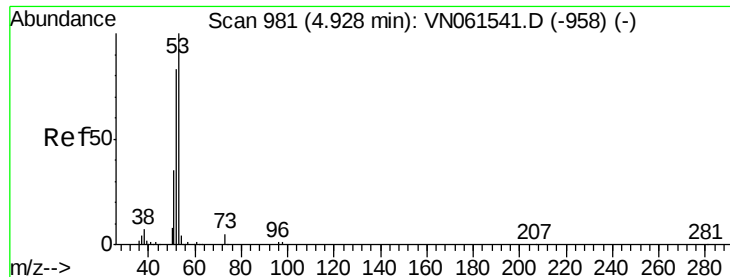
Ion Ratio Lower Upper

41 100

39 0.0 58.6 88.0#

76 32.4 34.2 51.4#





#15

Acrylonitrile

Concen: 2.678 ug/l m

RT: 4.94 min Scan# 985

Delta R.T. 0.01 min

Lab File: VN061549.D

Acq: 28 May 2020 23:13

Instrument :

MSVOA_N

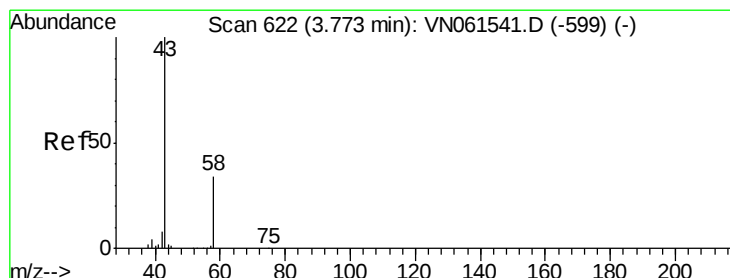
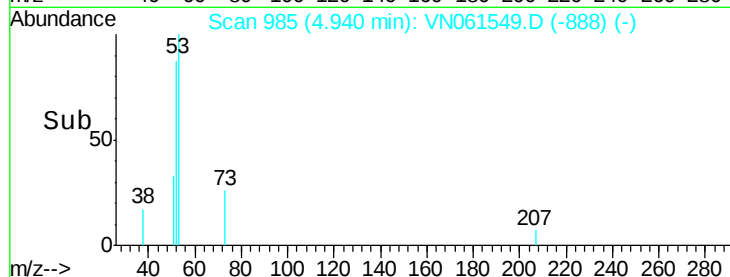
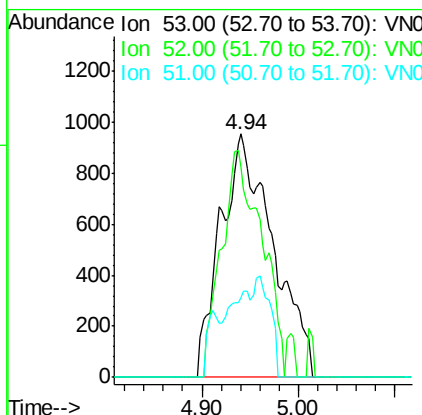
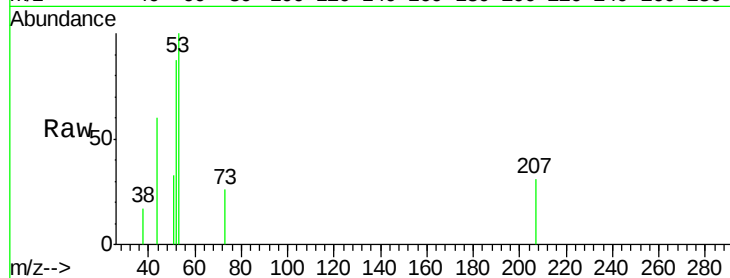
ClientSampleId :

LOD-MDL-WATER-01-QT2-2020

Tot Ion:	53	Resp:	3592
Ion Ratio	Lower	Upper	
53	100		
52	71.7	65.4	98.2
51	14.4	29.0	43.6#

Manual Integrations
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5/29/2020 5:50:28 PM



#16

Acetone

Concen: 4.507 ug/l

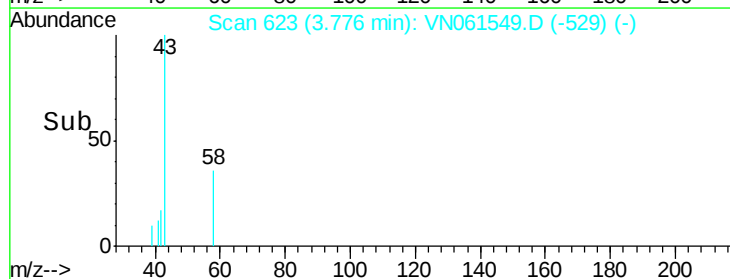
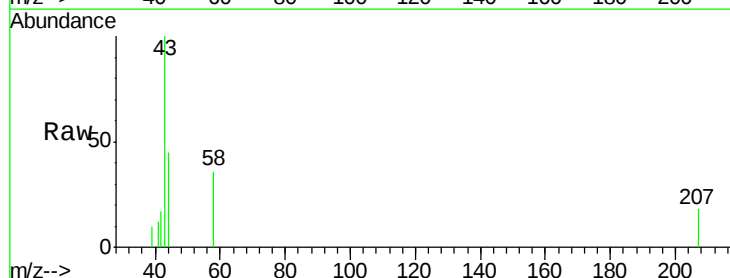
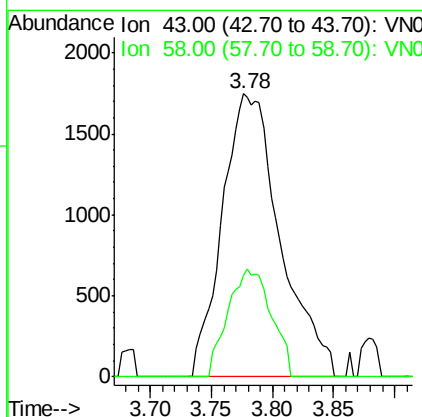
RT: 3.78 min Scan# 623

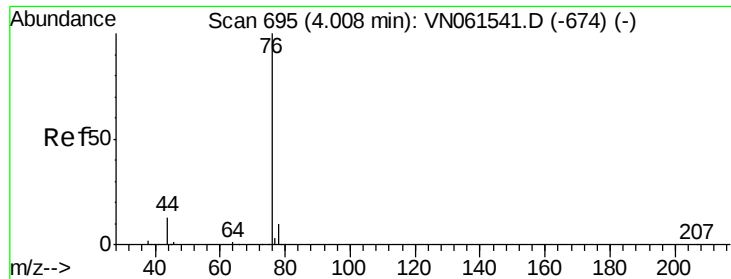
Delta R.T. 0.00 min

Lab File: VN061549.D

Acq: 28 May 2020 23:13

Tgt Ion:	43	Resp:	5759
Ion Ratio	Lower	Upper	
43	100		
58	35.8	27.2	40.8





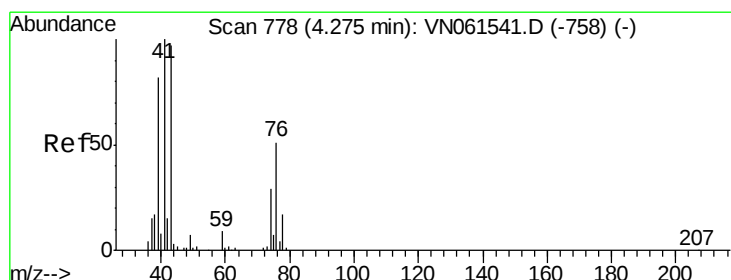
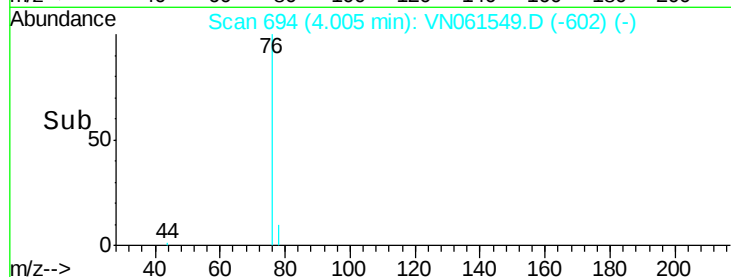
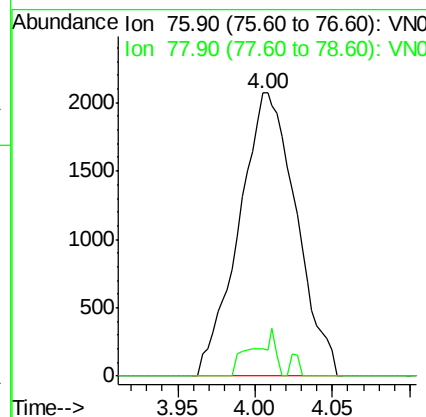
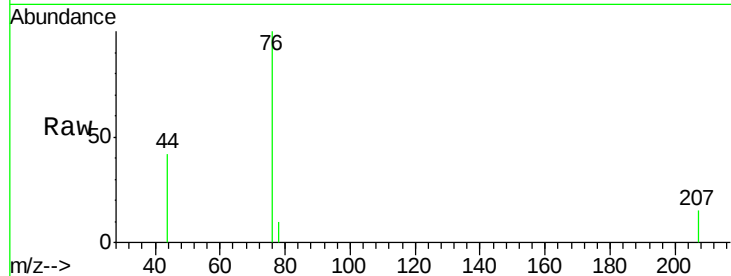
#17
Carbon Disulfide
Concen: 0.782 ug/l
RT: 4.00 min Scan# 694
Delta R.T. -0.00 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2020

Tot Ion: 76 Resp: 5328
Ion Ratio Lower Upper
76 100
78 9.6 7.8 11.6

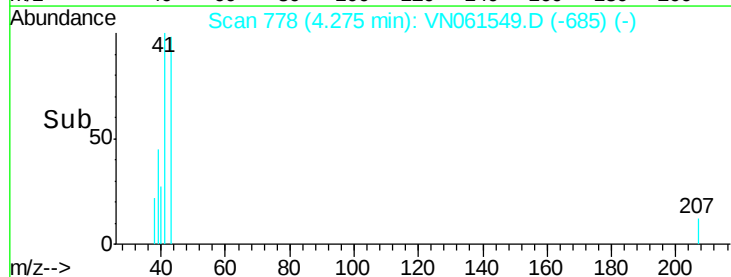
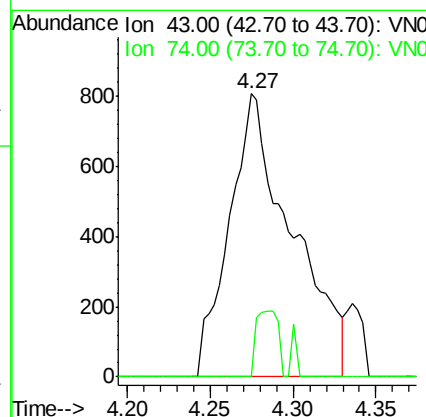
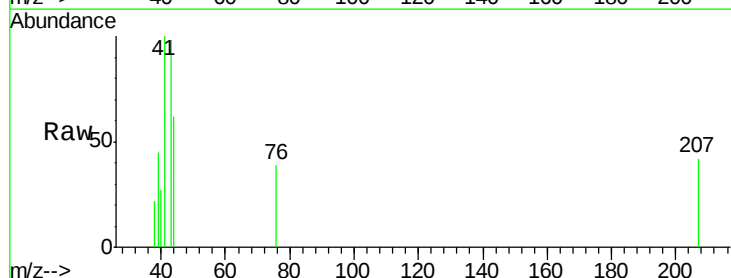
Manual Integrations
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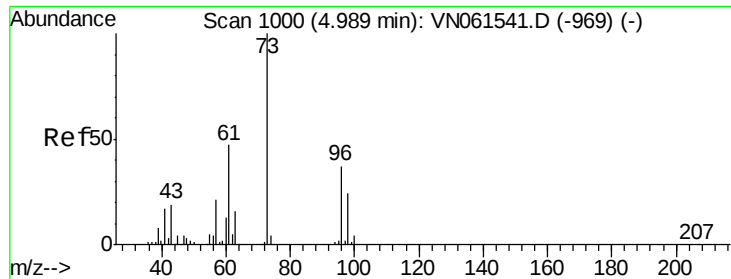
MMDadoda
5/29/2020 5:50:28 PM



#18
Methyl Acetate
Concen: 0.647 ug/l
RT: 4.27 min Scan# 778
Delta R.T. -0.00 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Tgt Ion: 43 Resp: 2116
Ion Ratio Lower Upper
43 100
74 8.1 23.2 34.8#





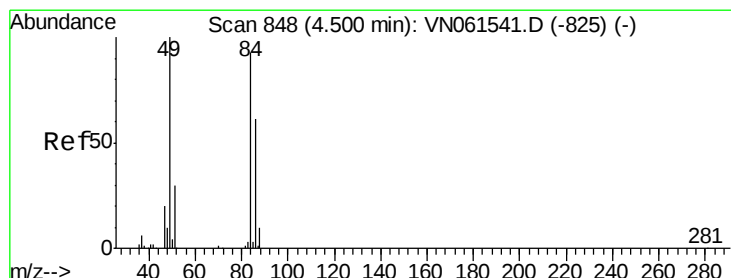
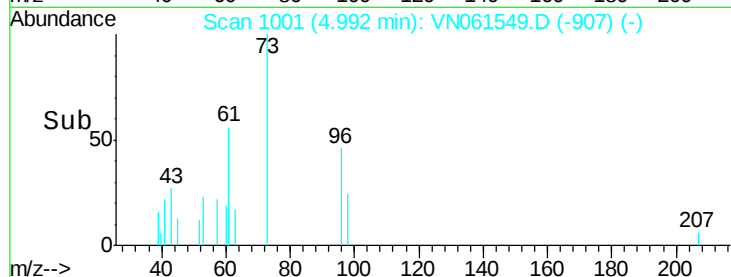
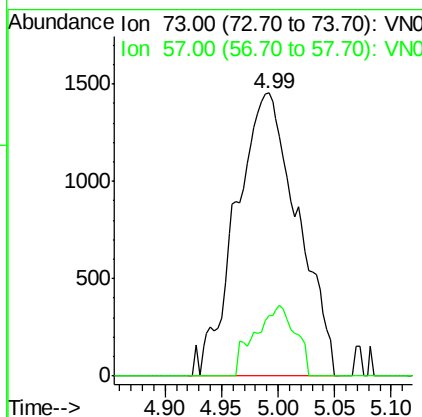
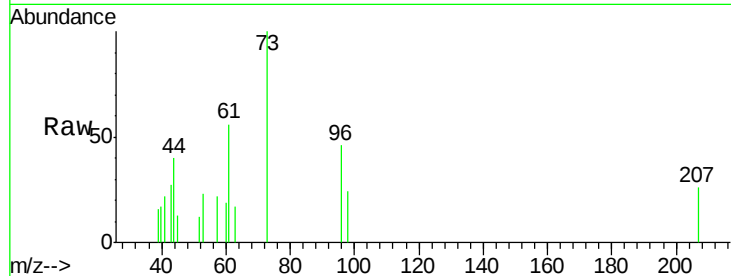
#19
Methvl tert-butvl Ether
Concen: 0.522 ug/l
RT: 4.99 min Scan# 1001
Delta R.T. 0.00 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2020

Tot Ion: 73 Resp: 5508
Ion Ratio Lower Upper
73 100
57 21.5 16.4 24.6

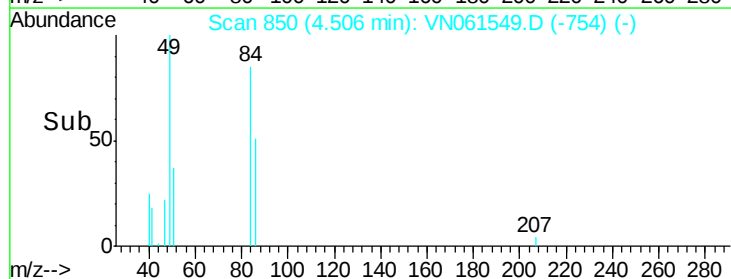
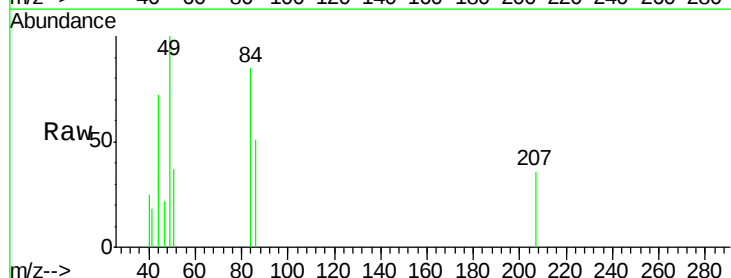
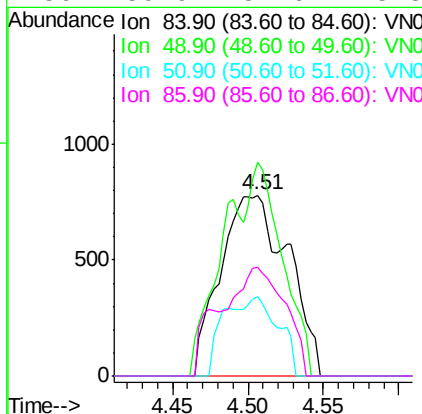
Manual Integrations
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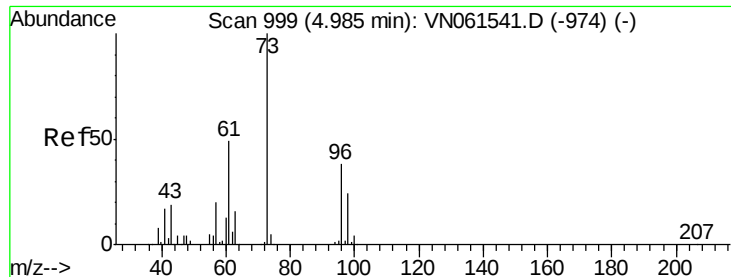
MMDadoda
5/29/2020 5:50:28 PM



#20
Methylene Chloride
Concen: 0.549 ug/l m
RT: 4.51 min Scan# 850
Delta R.T. 0.01 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Tgt Ion: 84 Resp: 2430
Ion Ratio Lower Upper
84 100
49 117.9 85.8 128.8
51 43.8 26.2 39.2#
86 59.9 52.6 78.8





#21

trans-1,2-Dichloroethene

Concen: 0.628 ug/l m

RT: 4.99 min Scan# 999

Delta R.T. -0.00 min

Lab File: VN061549.D

Acq: 28 May 2020 23:13

Instrument :

MSVOA_N

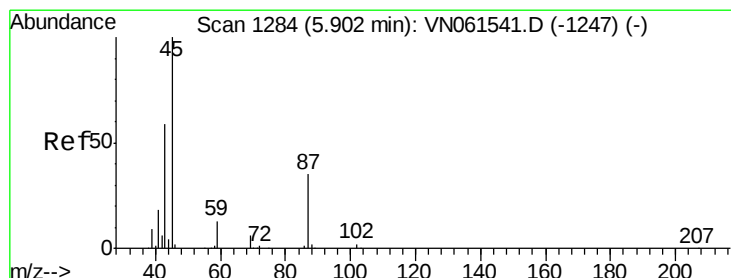
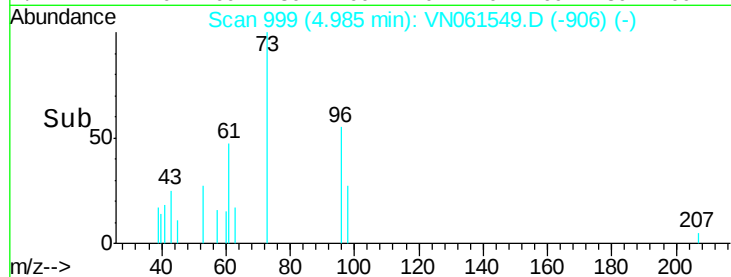
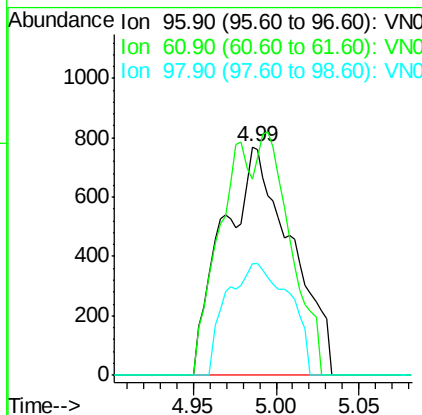
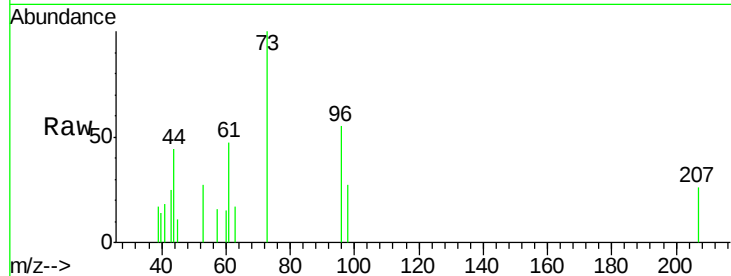
ClientSampleId :

LOD-MDL-WATER-01-QT2-2020

Tot Ion:	96	Resp:	2193
Ion	Ratio	Lower	Upper
96	100		
61	85.7	101.4	152.0#
98	48.7	50.6	76.0#

Manual Integrations
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MMDadoda
5/29/2020 5:50:28 PM



#22

Diisopropyl ether

Concen: 0.521 ug/l

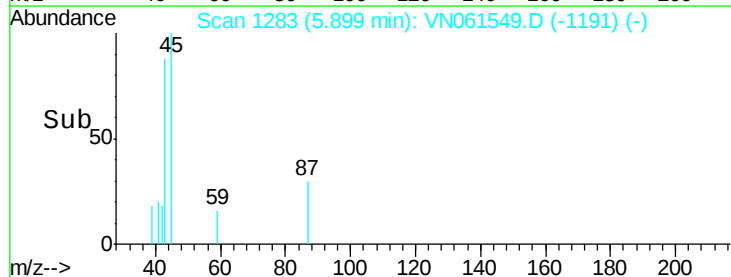
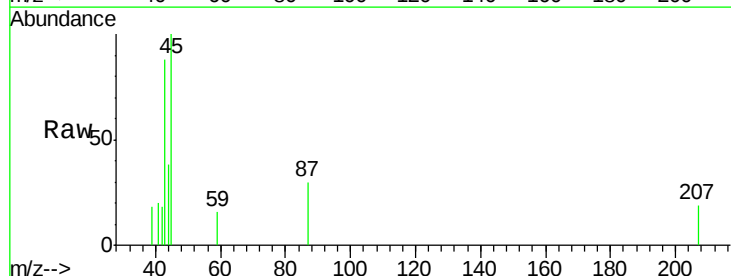
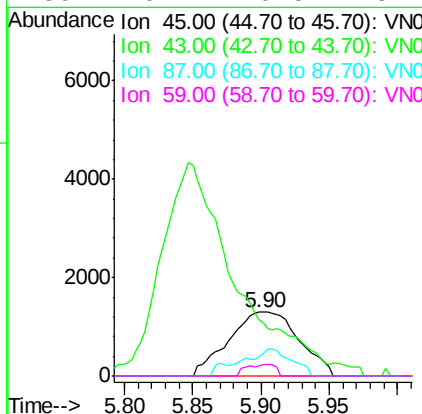
RT: 5.90 min Scan# 1283

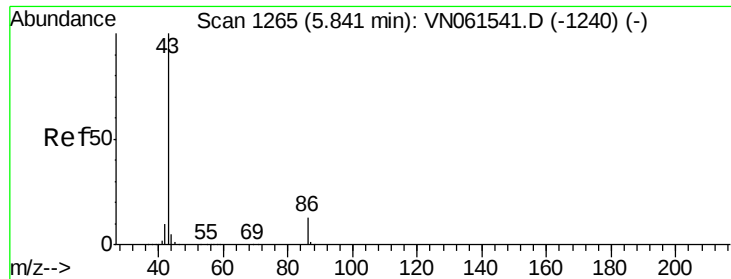
Delta R.T. -0.00 min

Lab File: VN061549.D

Acq: 28 May 2020 23:13

Tgt Ion:	45	Resp:	4655
Ion	Ratio	Lower	Upper
45	100		
43	68.7	47.9	71.9
87	29.7	28.4	42.6
59	16.1	10.5	15.7#





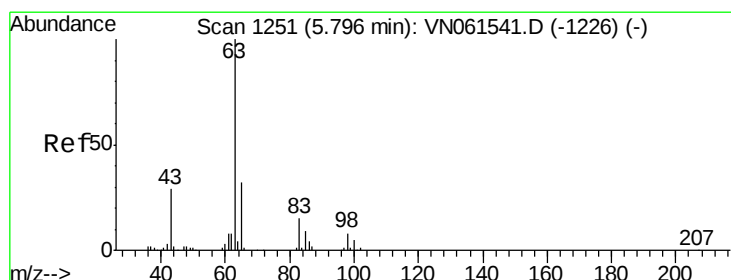
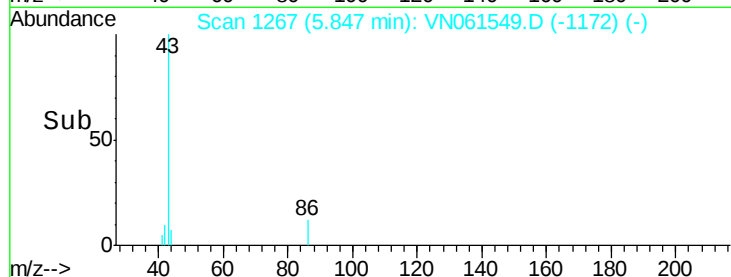
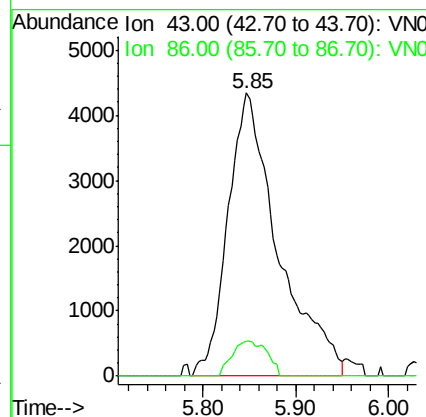
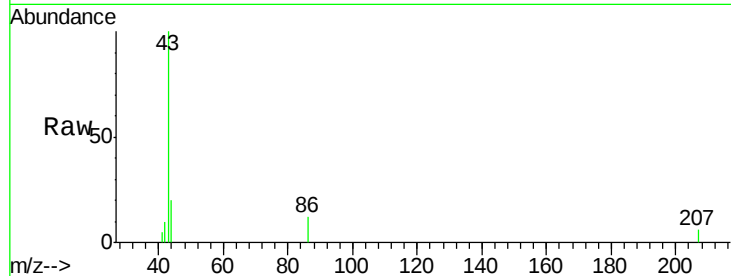
#23
 Vinyl Acetate
 Concen: 2.298 ug/l
 RT: 5.85 min Scan# 1267
 Delta R.T. 0.01 min
 Lab File: VN061549.D
 Acq: 28 May 2020 23:13

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT2-2020

Tot Ion	43	Resp	16347
Ion Ratio	Lower	Upper	
43	100		
86	12.4	10.6	16.0

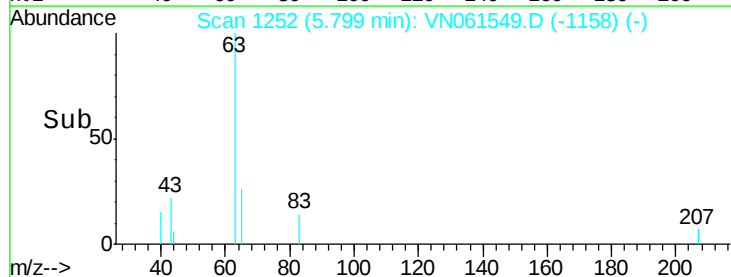
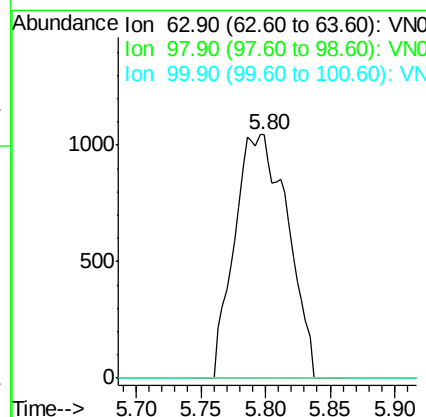
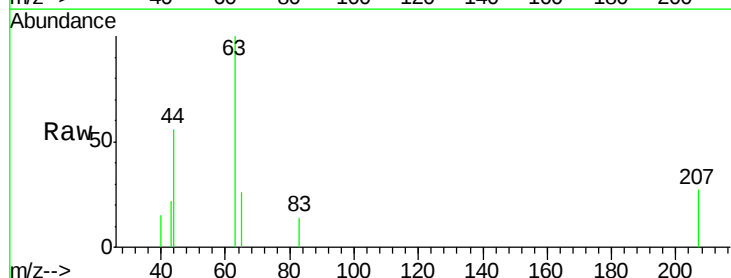
Manual Integrations
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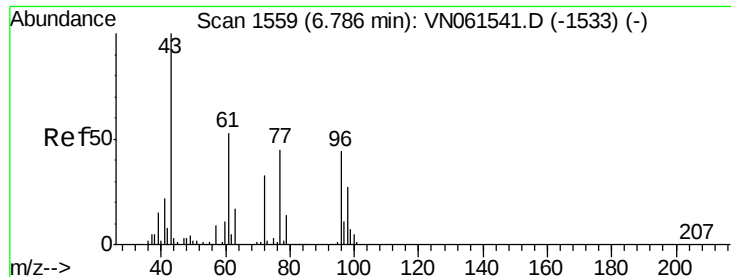
MMDadoda
 5/29/2020 5:50:28 PM



#24
 1,1-Dichloroethane
 Concen: 0.524 ug/l m
 RT: 5.80 min Scan# 1252
 Delta R.T. 0.00 min
 Lab File: VN061549.D
 Acq: 28 May 2020 23:13

Tgt Ion	63	Resp	2968
Ion Ratio	Lower	Upper	
63	100		
98	0.0	3.8	11.4#
100	0.0	2.5	7.6#





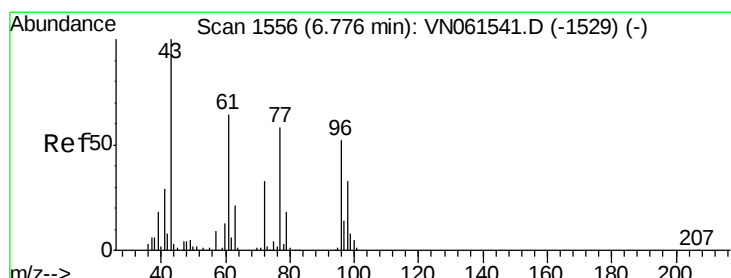
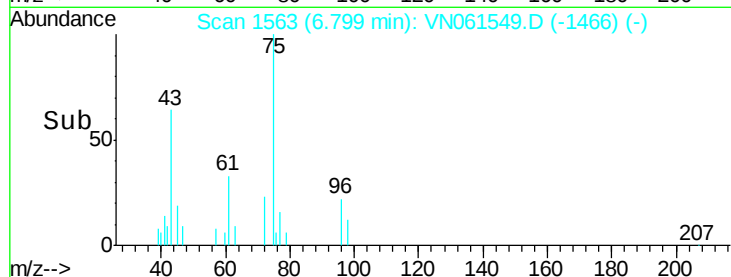
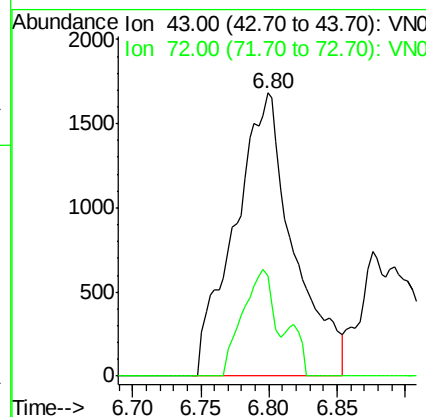
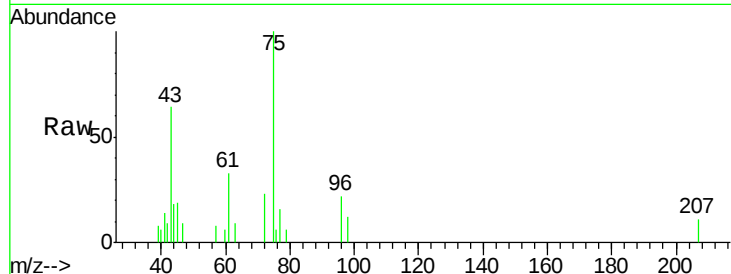
#25
2-Butanone
Concen: 2.948 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.01 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2020

Tot Ion: 43 Resp: 5047
Ion Ratio Lower Upper
43 100
72 35.3 26.0 39.0

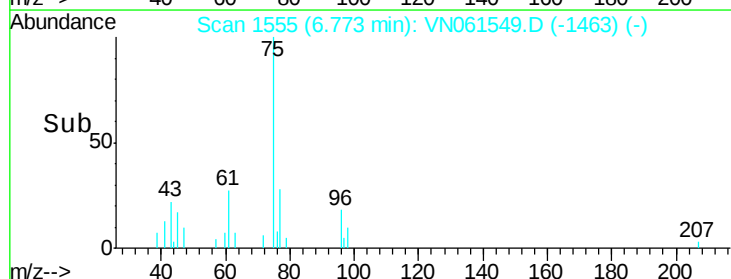
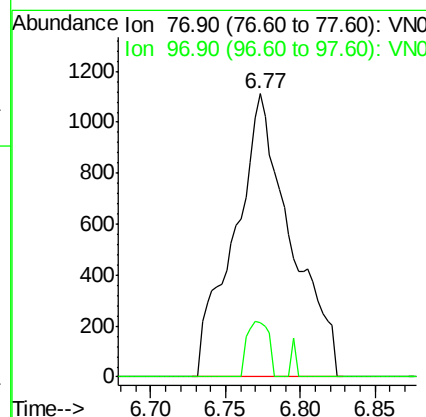
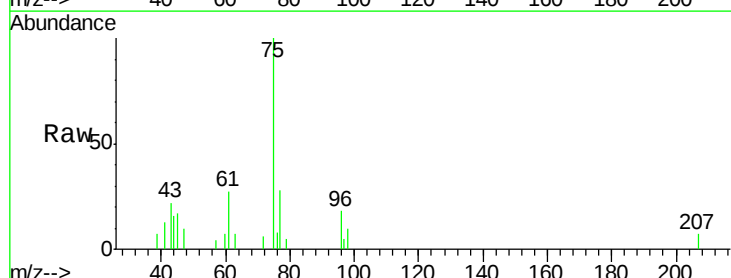
Manual Integrations
APPROVED

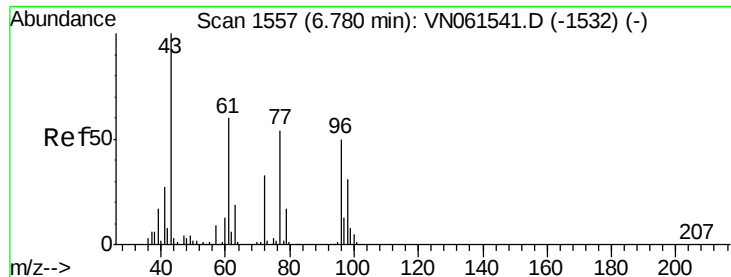
MMDadoda
5/29/2020 5:50:28 PM



#26
2,2-Dichloropropane
Concen: 0.563 ug/l
RT: 6.77 min Scan# 1555
Delta R.T. -0.00 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Tgt Ion: 77 Resp: 2918
Ion Ratio Lower Upper
77 100
97 7.6 12.0 36.0#





#27

cis-1,2-Dichloroethene

Concen: 0.580 ug/l m

RT: 6.79 min Scan# 1559

Delta R.T. 0.01 min

Lab File: VN061549.D

Acq: 28 May 2020 23:13

Instrument :

MSVOA_N

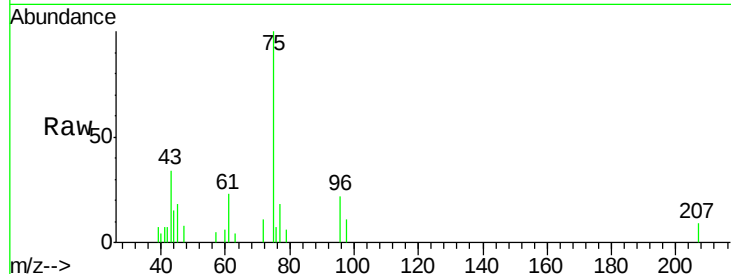
ClientSampleId :

LOD-MDL-WATER-01-QT2-2020

Tot Ion:	96	Resp:	2295
Ion	Ratio	Lower	Upper
96	100		
61	0.0	0.0	252.2
98	46.0	0.0	129.2

Manual Integrations
APPROVED

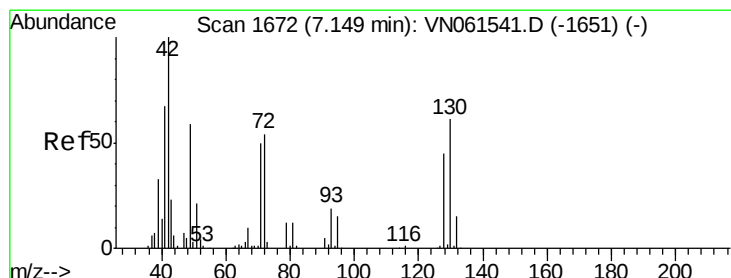
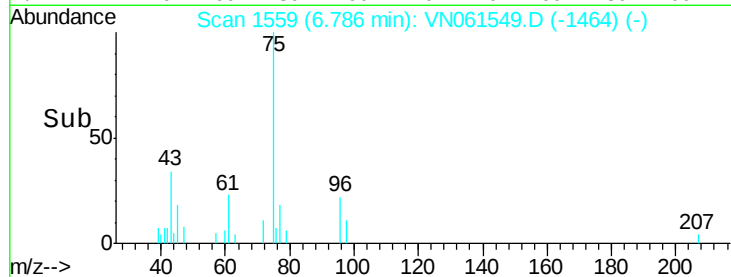
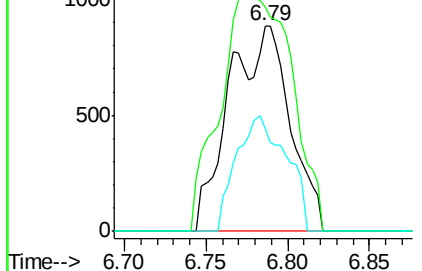
MMDadoda
5/29/2020 5:50:28 PM



Abundance Ion 95.90 (95.60 to 96.60): VN061549.D (-1464) (-)

Ion 60.90 (60.60 to 61.60): VN061549.D (-1464) (-)

Ion 97.90 (97.60 to 98.60): VN061549.D (-1464) (-)



#28

Bromochloromethane

Concen: 0.231 ug/l m

RT: 7.16 min Scan# 1675

Delta R.T. 0.01 min

Lab File: VN061549.D

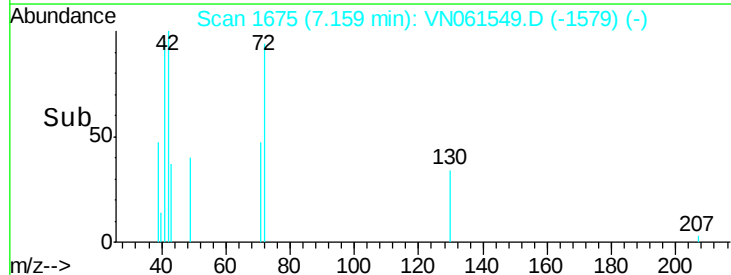
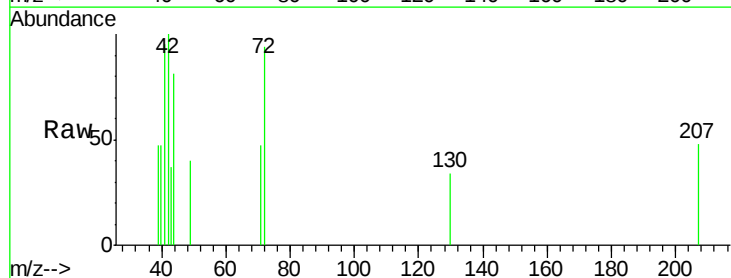
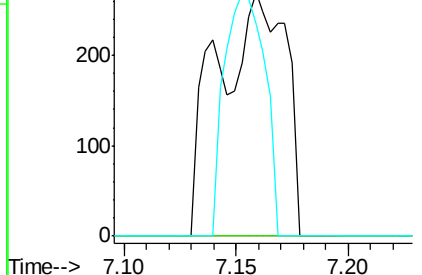
Acq: 28 May 2020 23:13

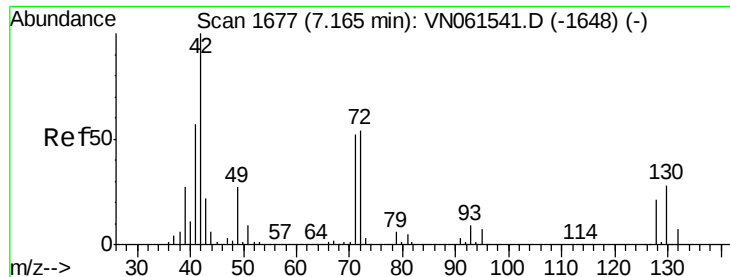
Tgt Ion:	49	Resp:	564
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.8
130	59.6	78.8	118.2#

Abundance Ion 48.90 (48.60 to 49.60): VN061549.D (-1579) (-)

Ion 128.80 (128.50 to 129.50): VN061549.D (-1579) (-)

Ion 129.80 (129.50 to 130.50): VN061549.D (-1579) (-)





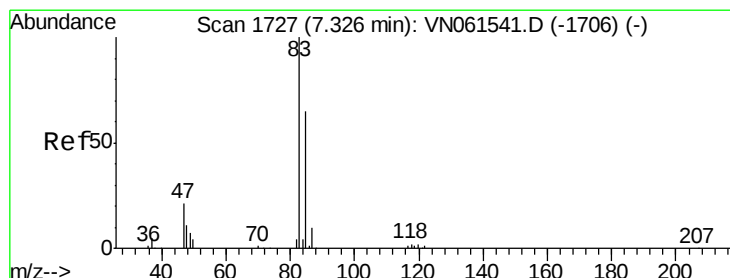
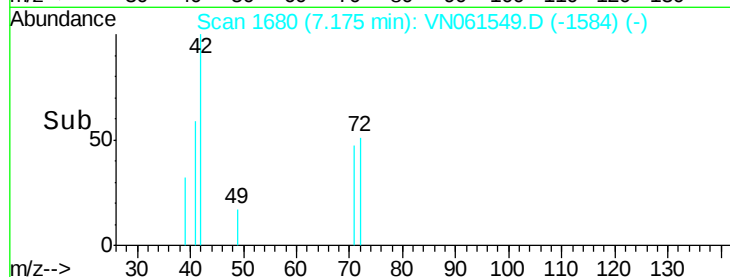
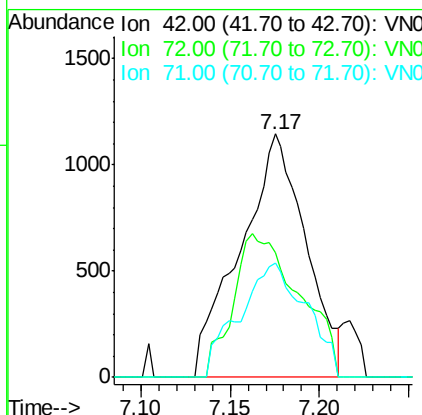
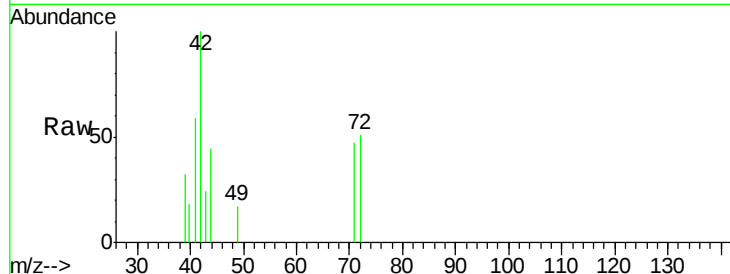
#29
Tetrahydrofuran
Concen: 2.603 ug/l
RT: 7.17 min Scan# 1680
Delta R.T. 0.01 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
42	100		
72	59.4	43.6	65.4
71	47.7	41.2	61.8

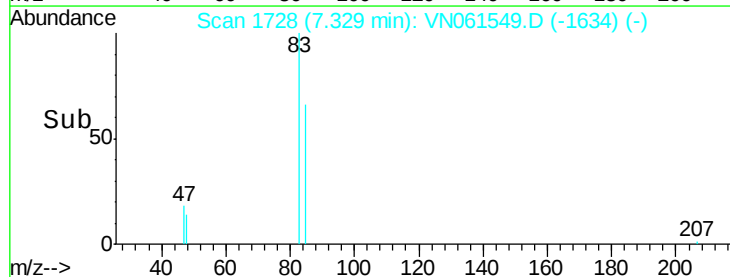
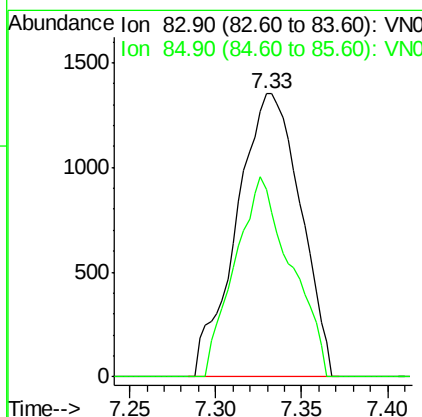
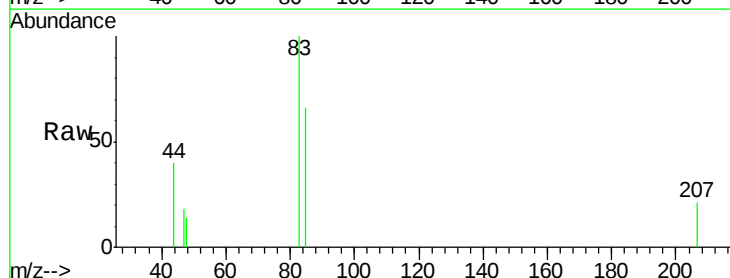
Manual Integrations
APPROVED

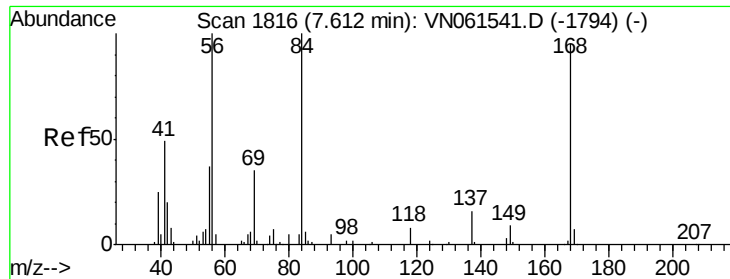
MMDadoda
5/29/2020 5:50:28 PM



#30
Chloroform
Concen: 0.558 ug/l
RT: 7.33 min Scan# 1728
Delta R.T. 0.00 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.1	51.7	77.5





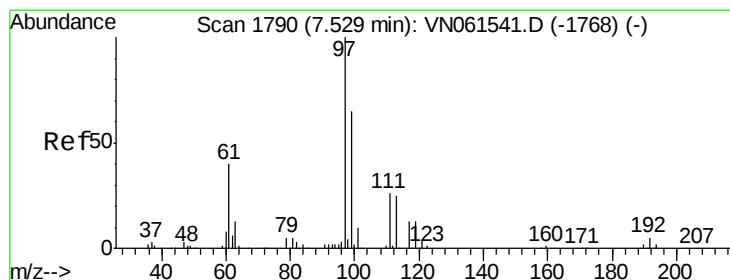
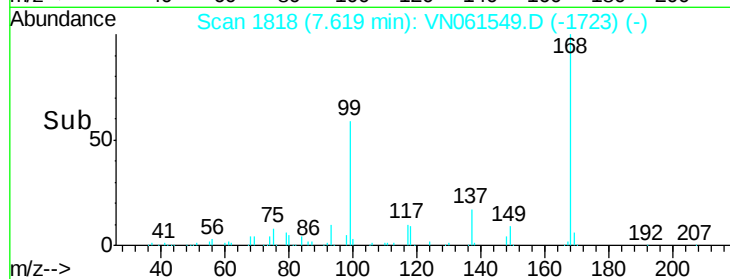
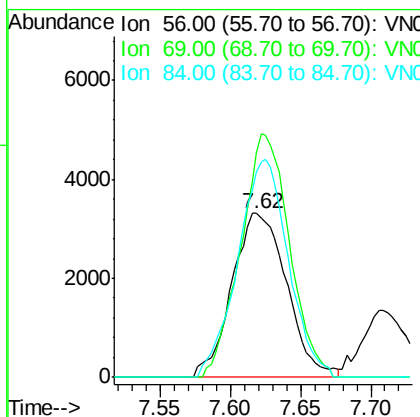
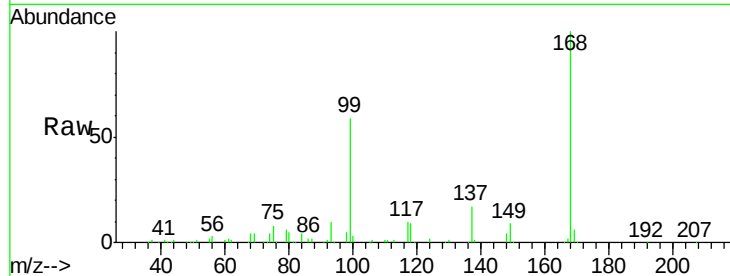
#31
Cyclohexane
Concen: 1.766 ug/l
RT: 7.62 min Scan# 1818
Delta R.T. 0.01 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
56	100		
69	137.0	27.8	41.8#
84	125.1	79.9	119.9#

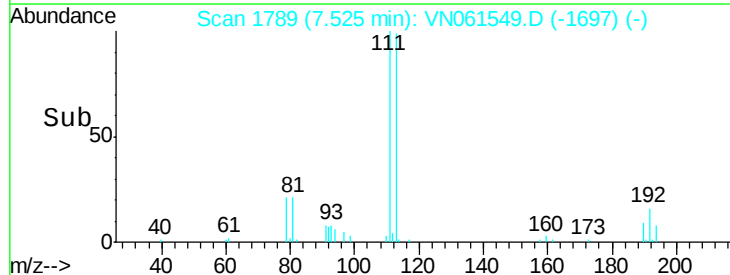
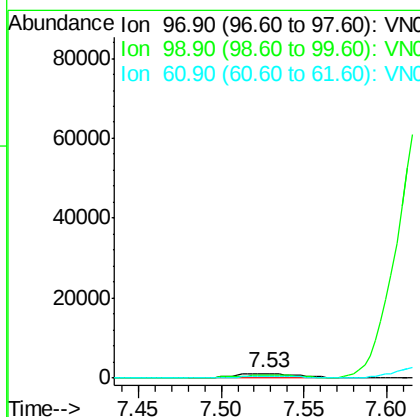
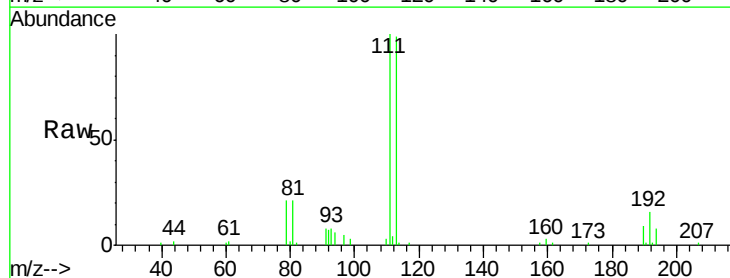
Manual Integrations
APPROVED

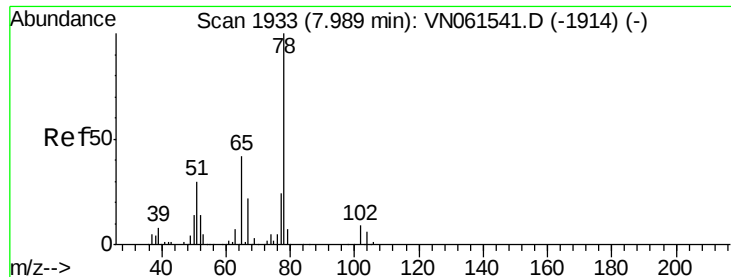
MMDadoda
5/29/2020 5:50:28 PM



#32
1,1,1-Trichloroethane
Concen: 0.540 ug/l
RT: 7.53 min Scan# 1789
Delta R.T. -0.00 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Tgt Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.4	77.0#
61	39.8	31.4	47.0





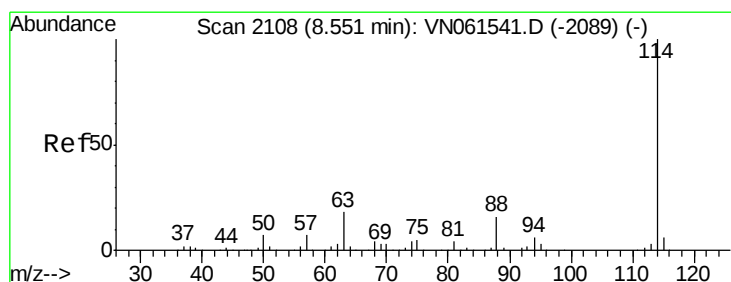
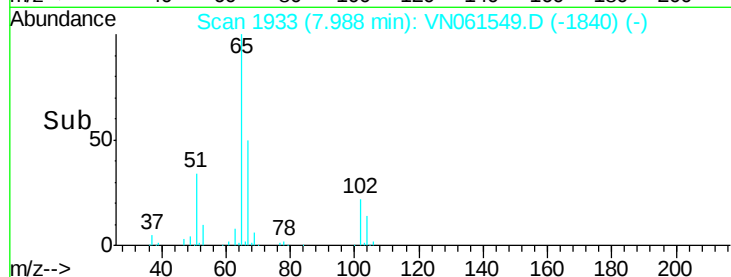
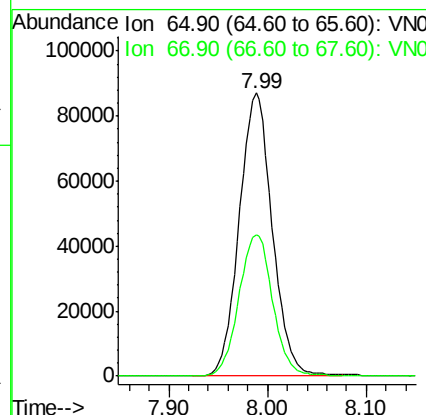
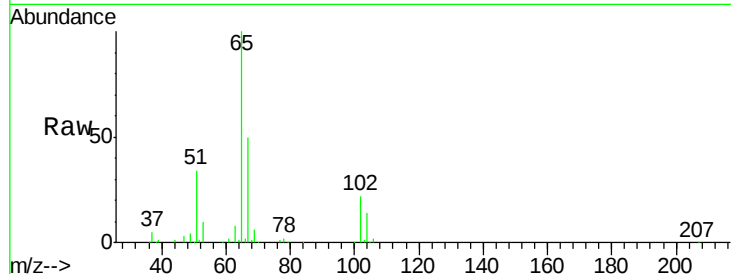
#33
 1,2-Dichloroethane-d4
 Concen: 55.999 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. -0.00 min
 Lab File: VN061549.D
 Acq: 28 May 2020 23:13

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT2-2020

Tot Ion	Ratio	Resp	Lower	Upper
65	100	202289		
67	51.2	0.0	104.8	

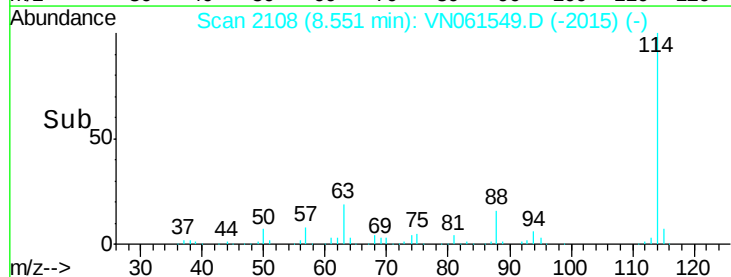
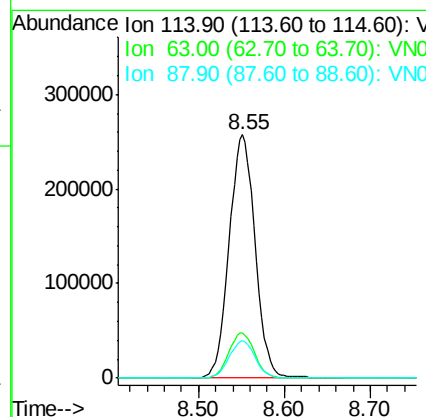
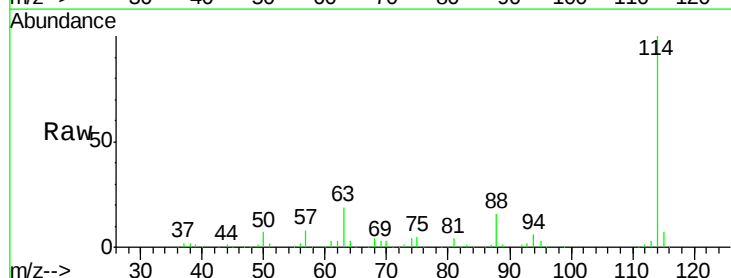
Manual Integrations
 APPROVED

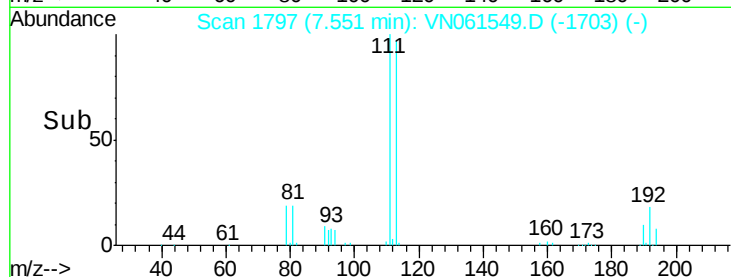
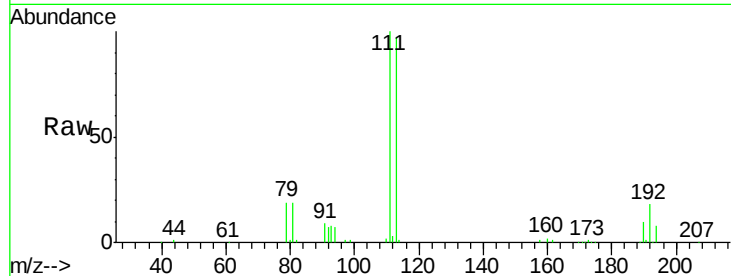
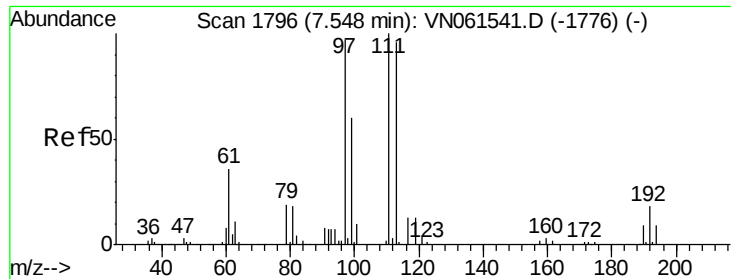
MMDadoda
 5/29/2020 5:50:28 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN061549.D
 Acq: 28 May 2020 23:13

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	539107		
63	18.6	0.0	35.8	
88	15.5	0.0	31.0	





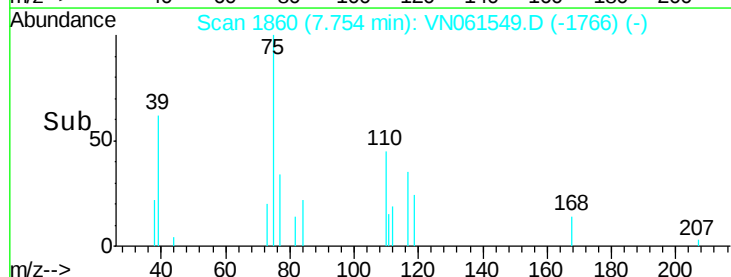
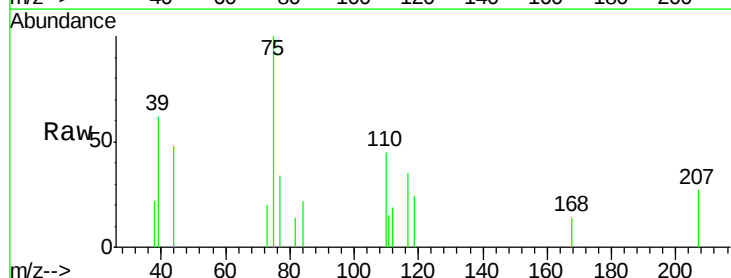
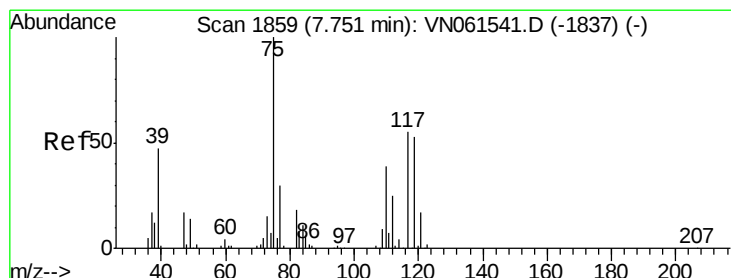
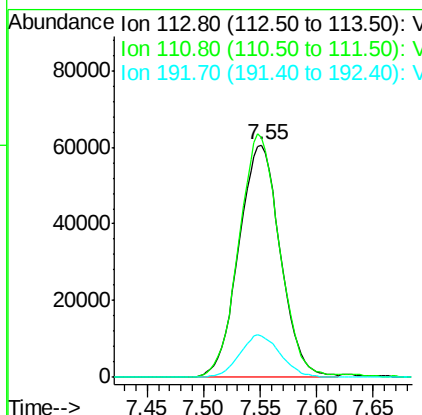
#35
Dibromofluoromethane
Concen: 56.613 ug/l
RT: 7.55 min Scan# 1797
Delta R.T. 0.00 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	102.1	83.4	125.0	
192	17.9	15.4	23.2	

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2020

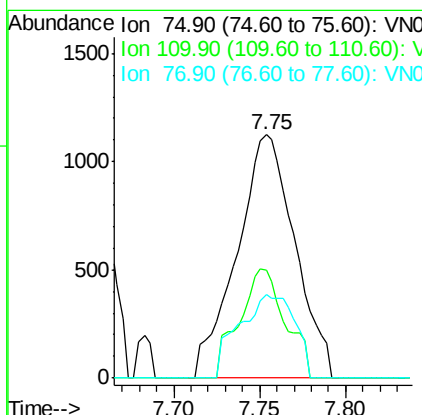
Manual Integrations
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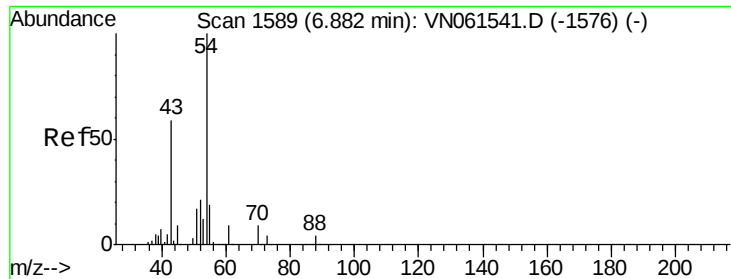
MMDadoda
5/29/2020 5:50:28 PM



#36
1,1-Dichloropropene
Concen: 0.552 ug/l
RT: 7.75 min Scan# 1860
Delta R.T. 0.00 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	35.7	19.5	58.5	
77	33.0	24.7	37.1	





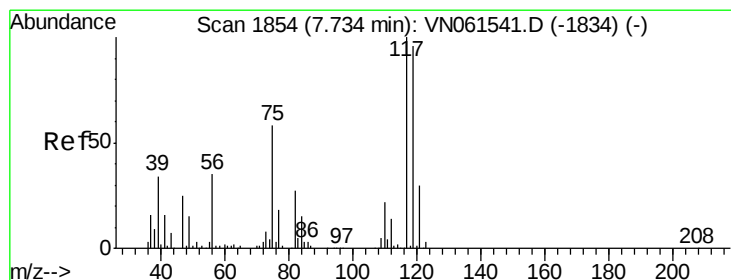
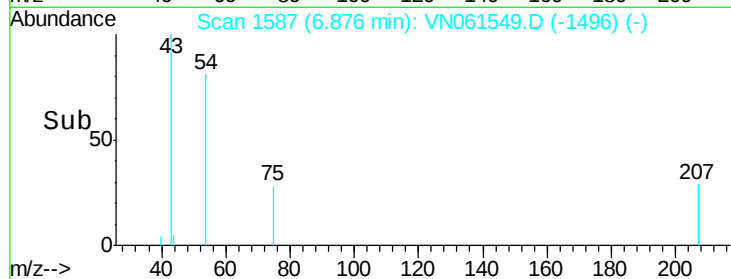
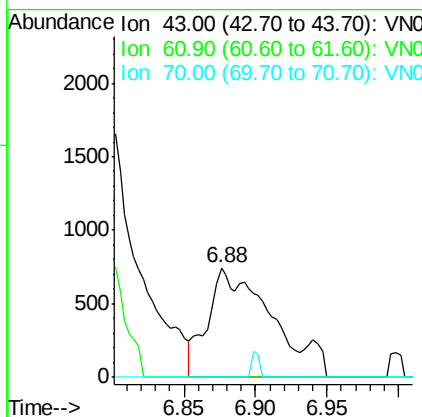
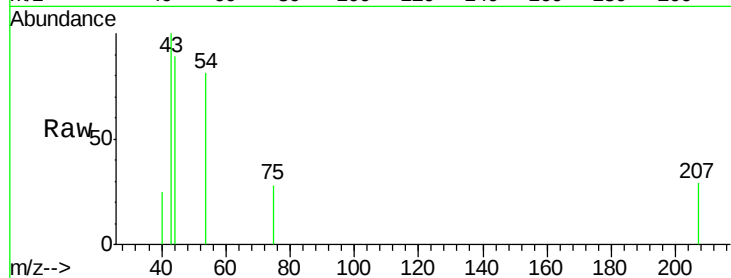
#37
Ethyl Acetate
Concen: 0.600 ug/l m
RT: 6.88 min Scan# 1587
Delta R.T. -0.01 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2020

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

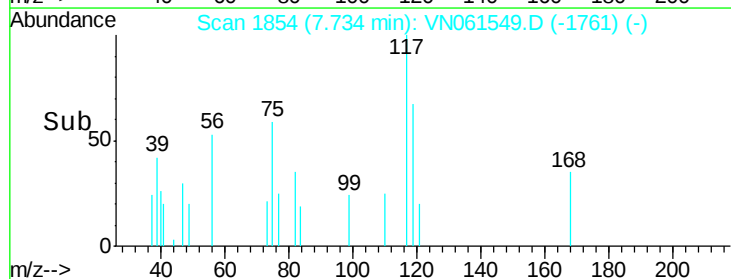
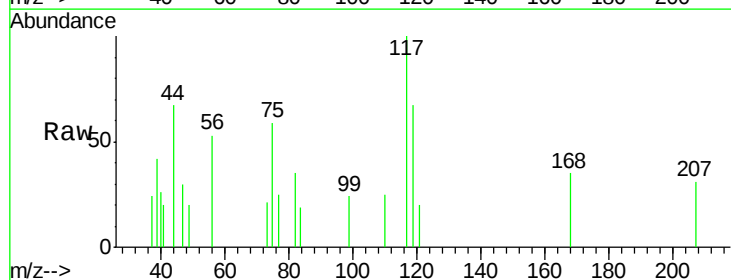
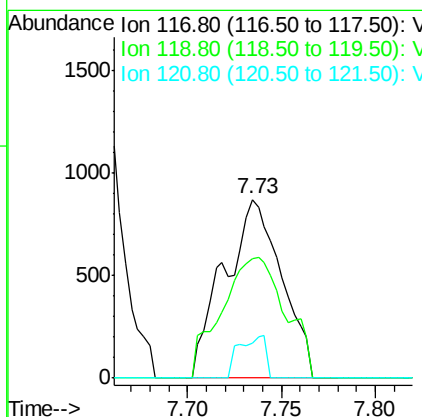
Manual Integrations
APPROVED

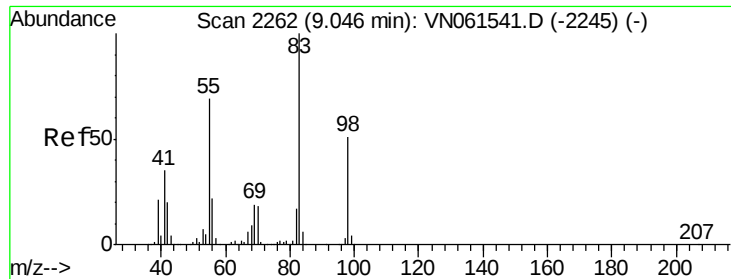
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#38
Carbon Tetrachloride
Concen: 0.403 ug/l m
RT: 7.73 min Scan# 1854
Delta R.T. -0.00 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Tgt Ion	Ratio	Lower	Upper
117	100		
119	66.9	76.5	114.7#
121	19.5	24.1	36.1#





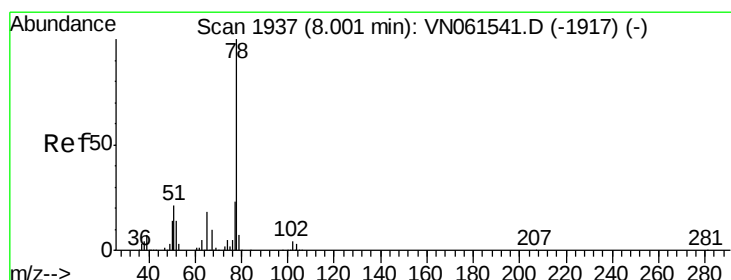
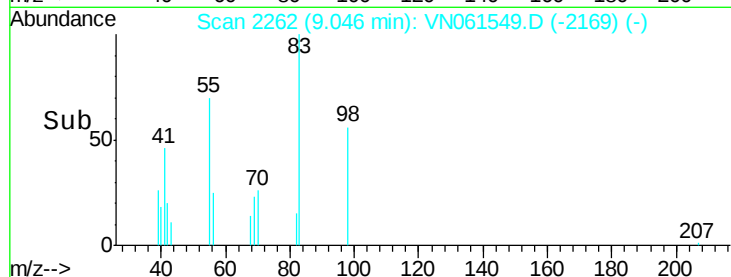
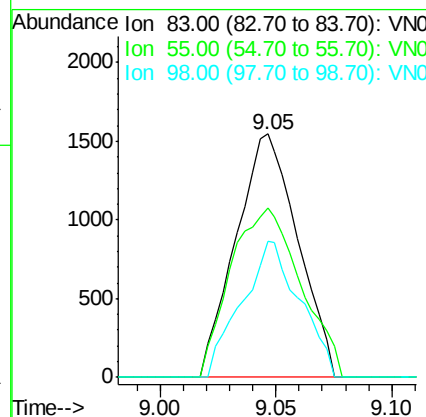
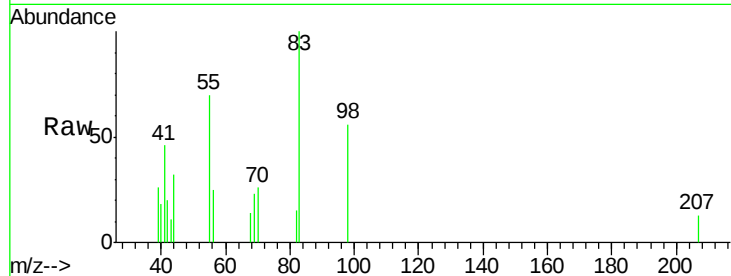
#39
Methvlcvclohexane
Concen: 0.486 ug/l
RT: 9.05 min Scan# 2262
Delta R.T. -0.00 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
83	100		
55	69.8	54.9	82.3
98	56.1	41.0	61.4

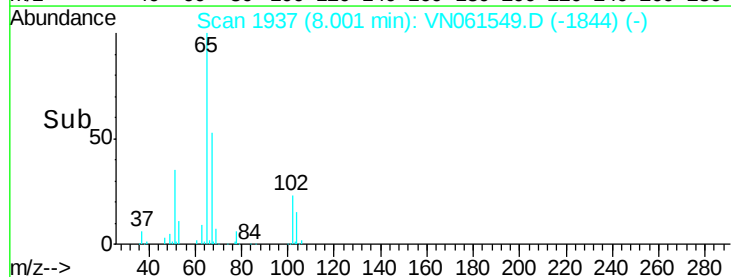
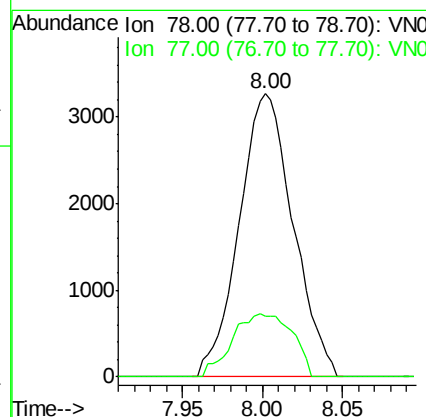
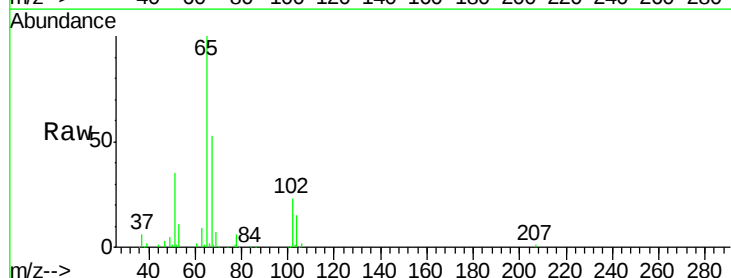
Manual Integrations
APPROVED

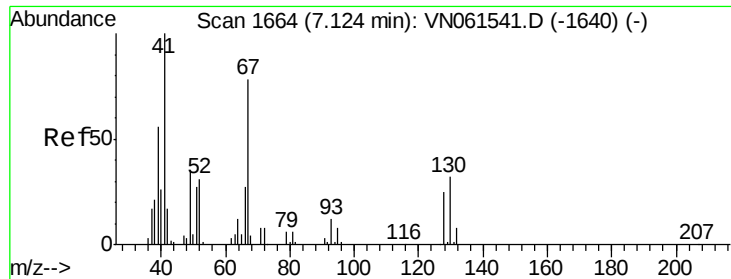
MMDadoda
5/29/2020 5:50:28 PM



#40
Benzene
Concen: 0.512 ug/l
RT: 8.00 min Scan# 1937
Delta R.T. -0.00 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.4	18.6	28.0





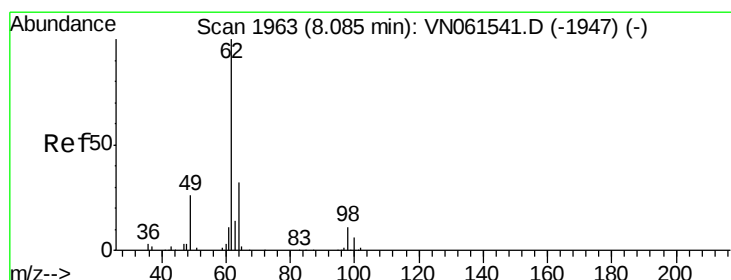
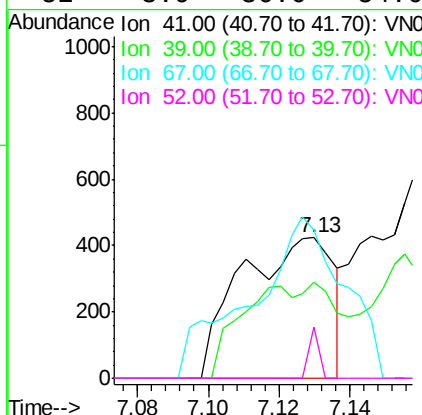
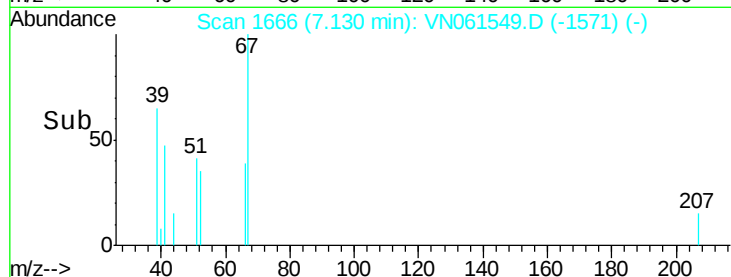
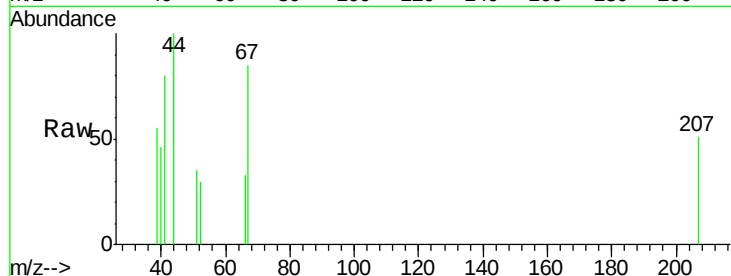
#41
Methacrylonitrile
Concen: 0.435 ug/l m
RT: 7.13 min Scan# 1666
Delta R.T. 0.01 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
41	100		
39	39.0	53.8	80.6#
67	115.9	91.1	136.7
52	3.9	36.0	54.0#

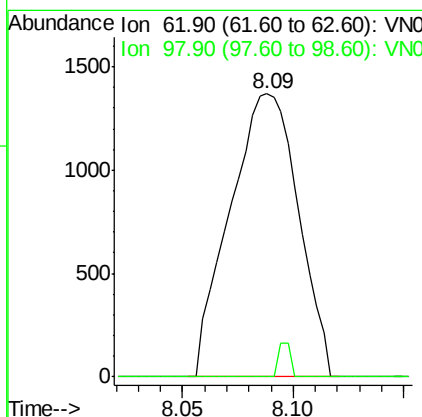
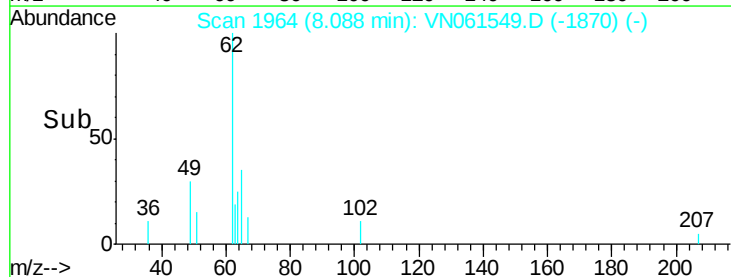
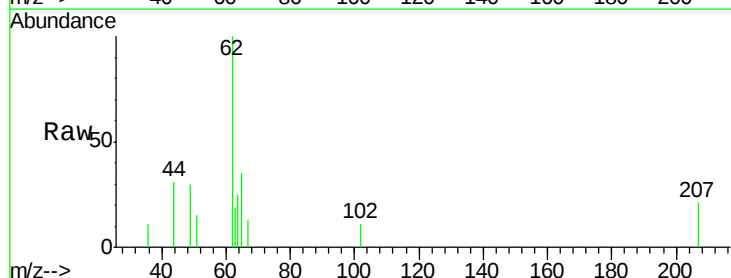
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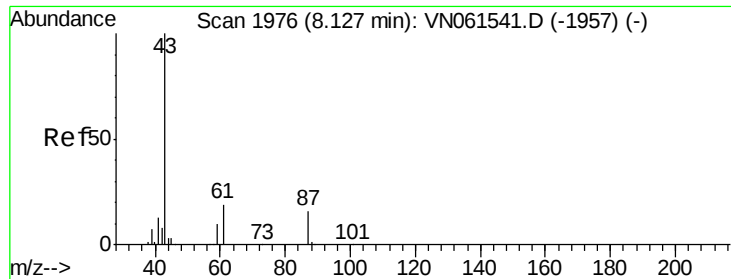
MMDadoda
5/29/2020 5:50:28 PM



#42
1,2-Dichloroethane
Concen: 0.598 ug/l
RT: 8.09 min Scan# 1964
Delta R.T. 0.00 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Tgt Ion	Ratio	Lower	Upper
62	100		
98	2.1	0.0	21.4





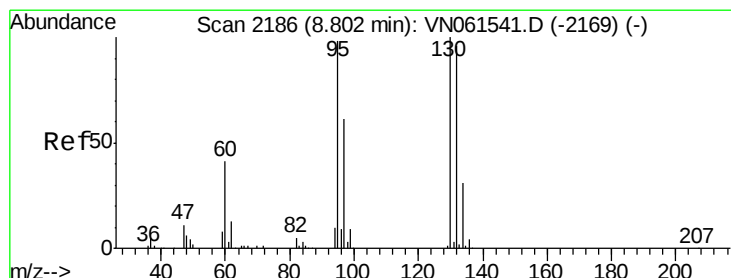
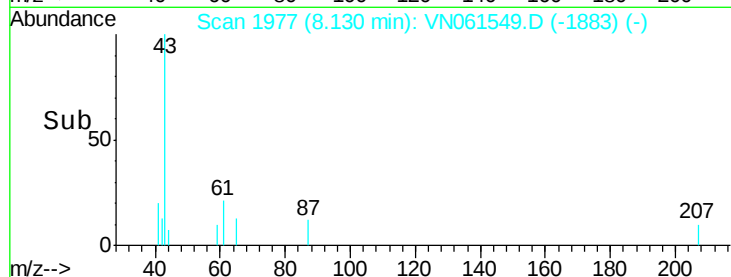
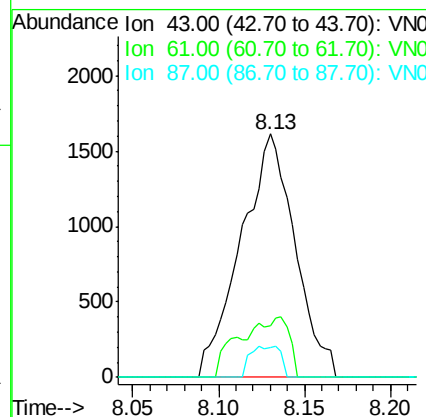
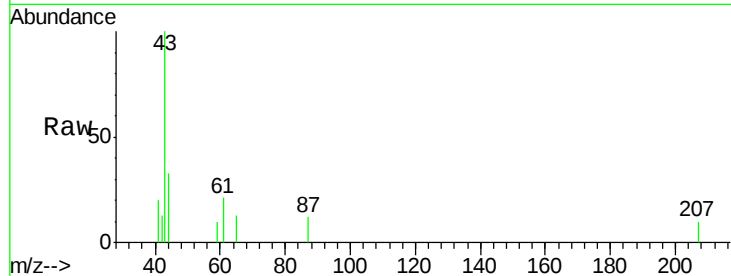
#43
Isopropyl Acetate
Concen: 0.510 ug/l
RT: 8.13 min Scan# 1977
Delta R.T. 0.00 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
43	100		
61	22.5	23.6	35.4#
87	7.1	13.0	19.6#

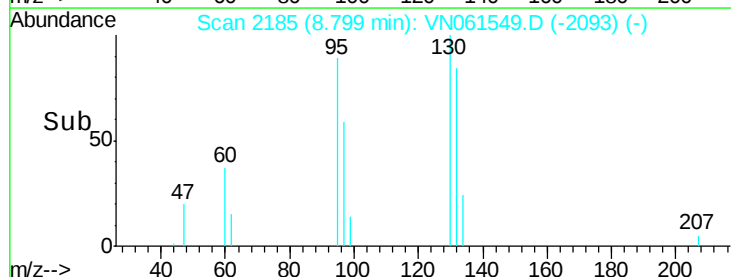
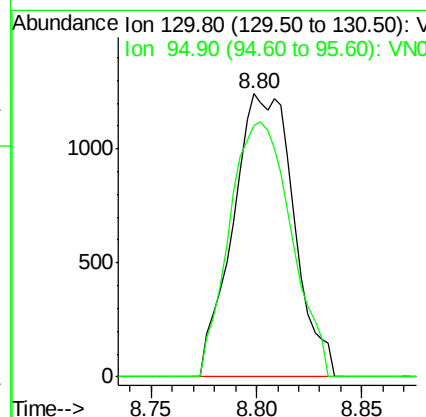
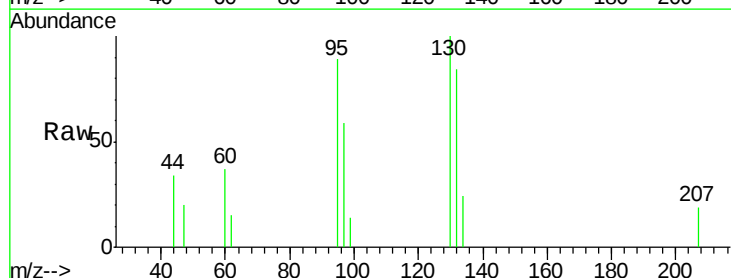
Manual Integrations
APPROVED

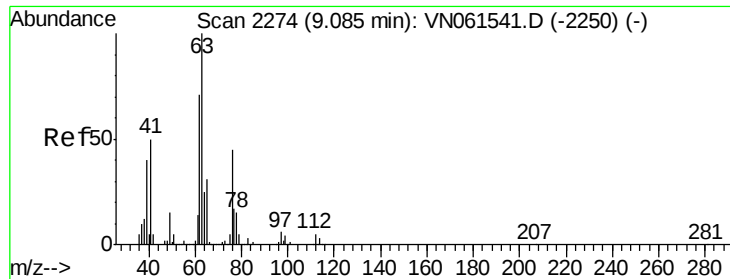
MMDadoda
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#44
Trichloroethene
Concen: 0.551 ug/l
RT: 8.80 min Scan# 2185
Delta R.T. -0.00 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Tgt Ion	Ratio	Lower	Upper
130	100		
95	88.6	0.0	196.6





#45

1,2-Dichloropropane

Concen: 0.531 ug/l

RT: 9.09 min Scan# 2276

Delta R.T. 0.01 min

Lab File: VN061549.D

Acq: 28 May 2020 23:13

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT2-2020

Tot Ion: 63 Resp: 1856

Ion Ratio Lower Upper

63 100

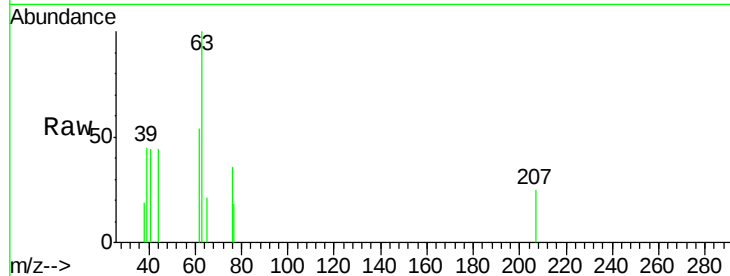
65 20.7 24.7 37.1#

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Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.09

1000

800

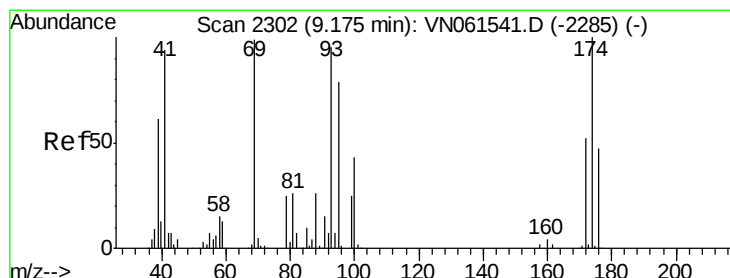
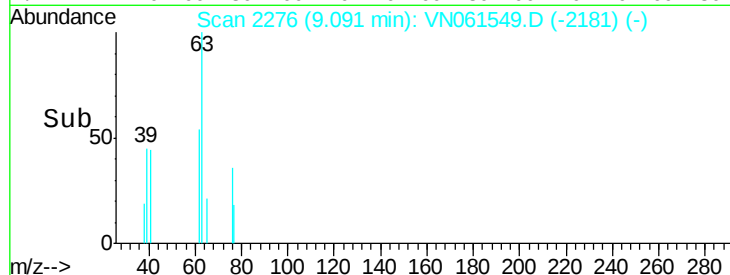
600

400

200

0

Time-->



#46

Dibromomethane

Concen: 0.487 ug/l

RT: 9.17 min Scan# 2302

Delta R.T. -0.00 min

Lab File: VN061549.D

Acq: 28 May 2020 23:13

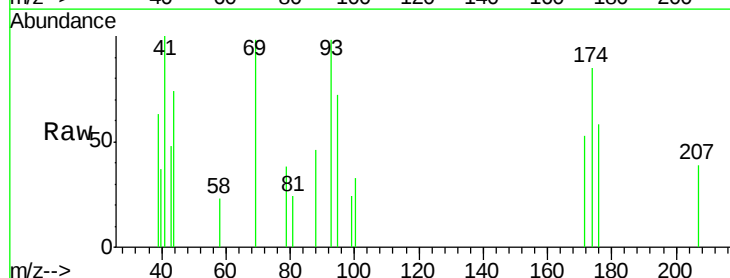
Tgt Ion: 93 Resp: 1305

Ion Ratio Lower Upper

93 100

95 79.8 66.0 99.0

174 86.8 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

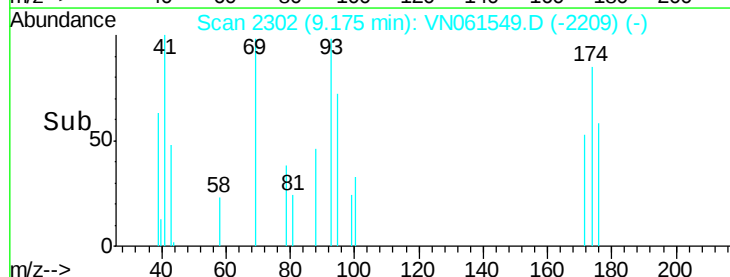
600

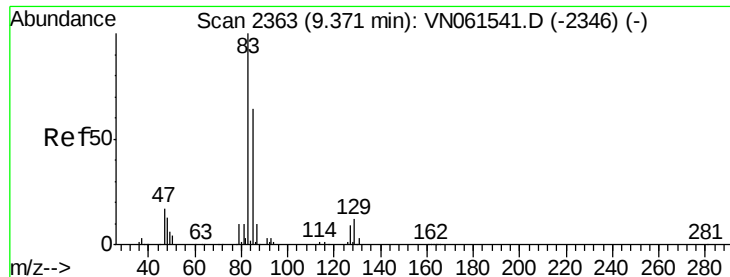
400

200

0

Time-->





#47

Bromodichloromethane

Concen: 0.460 ug/l

RT: 9.37 min Scan# 2363

Delta R.T. -0.00 min

Lab File: VN061549.D

Acq: 28 May 2020 23:13

Instrument :

MSVOA_N

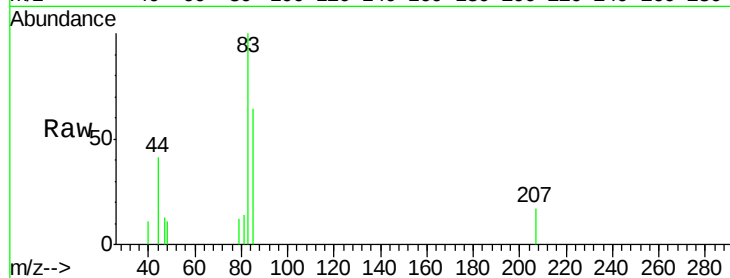
ClientSampleId :

LOD-MDL-WATER-01-QT2-2020

Tot Ion:	83	Resp:	2445
Ion	Ratio	Lower	Upper
83	100		
85	63.8	51.1	76.7
127	0.0	7.2	10.8#

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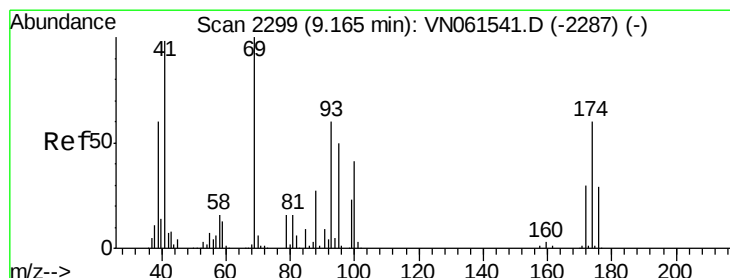
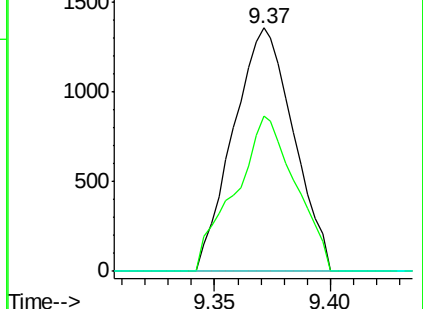
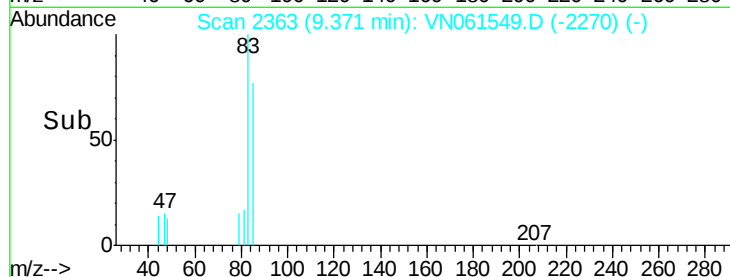


Abundance Ion 82.90 (82.60 to 83.60): VN061549.D (-2270) (-)

Ion 84.90 (84.60 to 85.60): VN061549.D (-2270) (-)

Ion 126.80 (126.50 to 127.50): VN061549.D (-2270) (-)

Time-->



#48

Methyl methacrylate

Concen: 0.560 ug/l

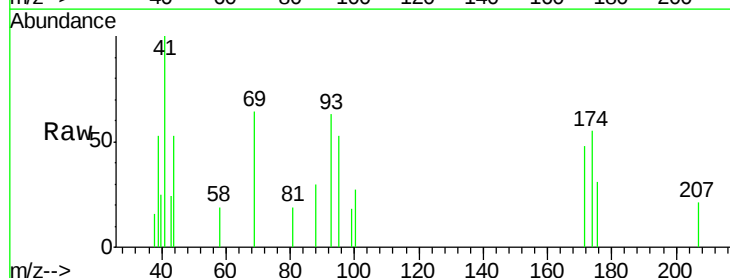
RT: 9.17 min Scan# 2300

Delta R.T. 0.00 min

Lab File: VN061549.D

Acq: 28 May 2020 23:13

Tgt Ion:	41	Resp:	1741
Ion	Ratio	Lower	Upper
41	100		
69	80.0	83.9	125.9#
39	50.8	52.1	78.1#

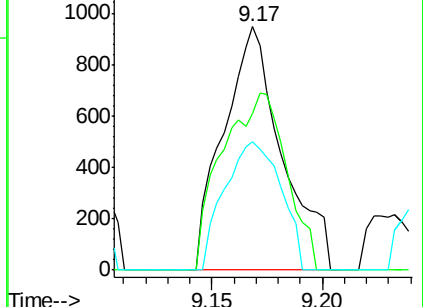
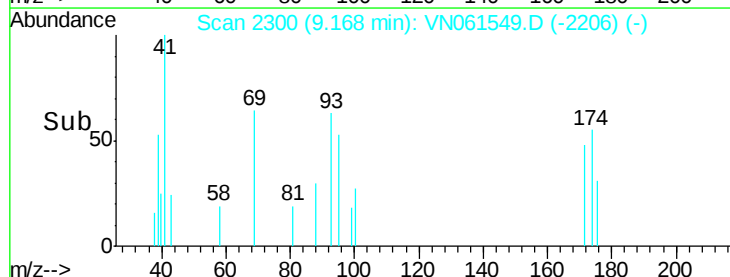


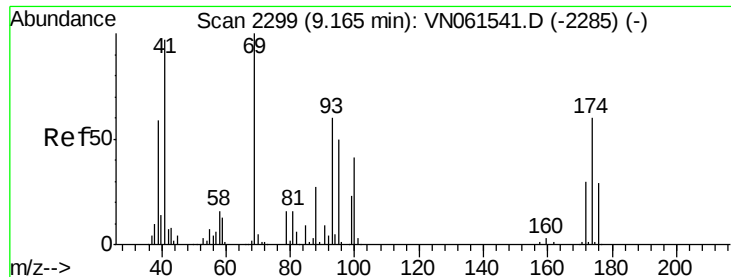
Abundance Ion 41.00 (40.70 to 41.70): VN061549.D (-2206) (-)

Ion 69.00 (68.70 to 69.70): VN061549.D (-2206) (-)

Ion 39.00 (38.70 to 39.70): VN061549.D (-2206) (-)

Time-->





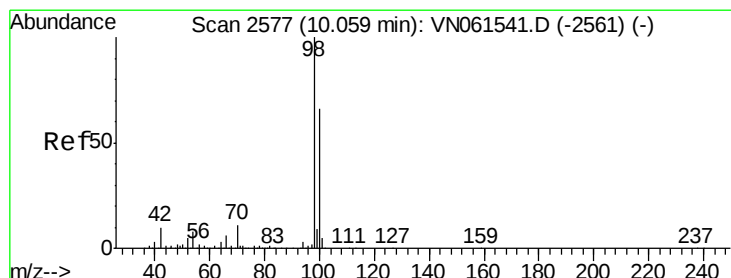
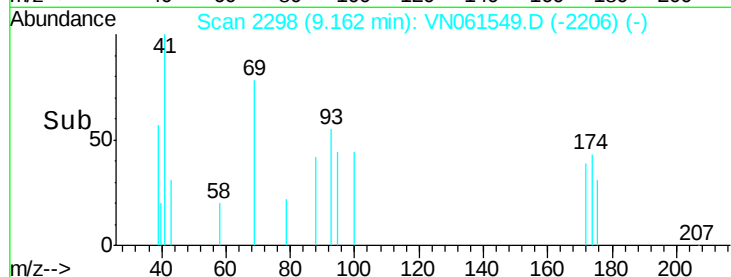
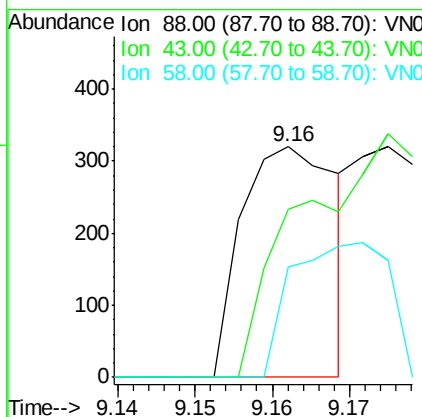
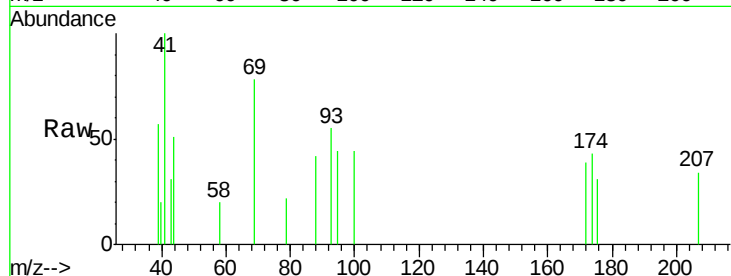
#49
1,4-Dioxane
Concen: 5.664 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.00 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
88	100		
43	175.5	23.1	34.7#
58	60.1	48.3	72.5

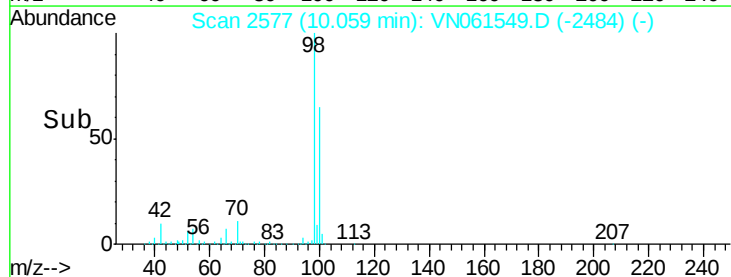
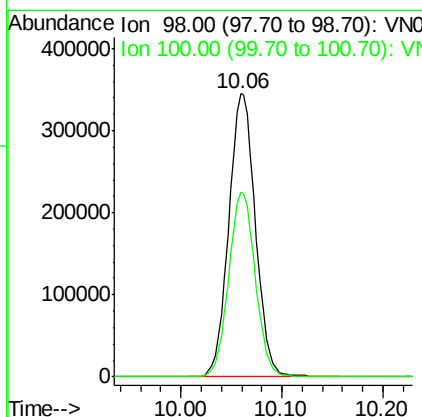
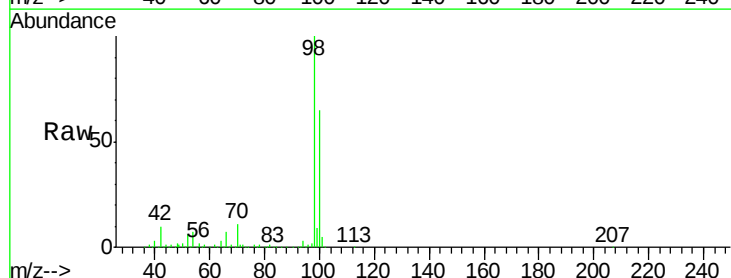
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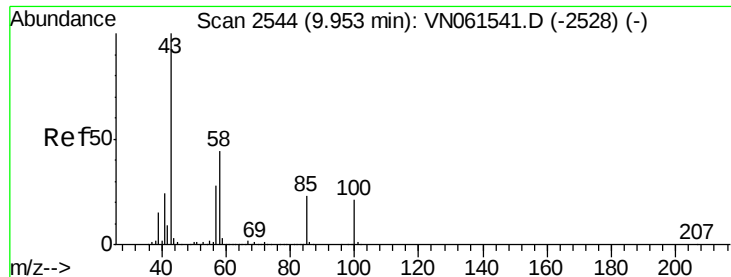
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#50
Toluene-d8
Concen: 50.187 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.8	79.2





#51

4-Methyl-2-Pentanone

Concen: 2.263 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. -0.00 min

Lab File: VN061549.D

Acq: 28 May 2020 23:13

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT2-2020

Tot Ion: 43 Resp: 8820

Ion Ratio Lower Upper

43 100

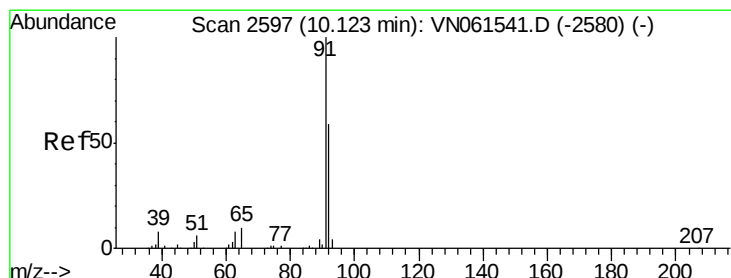
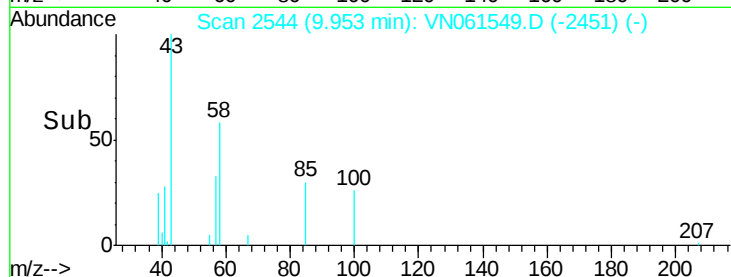
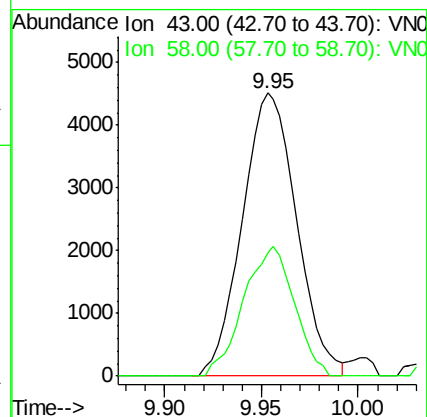
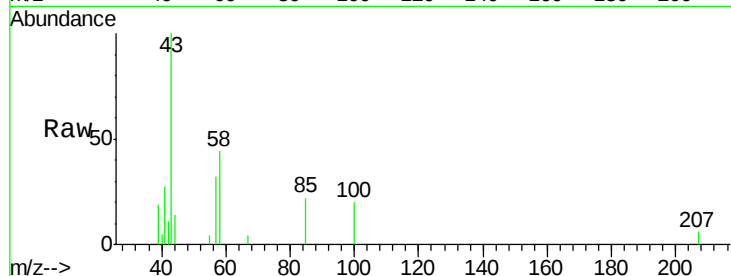
58 42.6 35.0 52.6

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#52

Toluene

Concen: 0.490 ug/l

RT: 10.12 min Scan# 2597

Delta R.T. -0.00 min

Lab File: VN061549.D

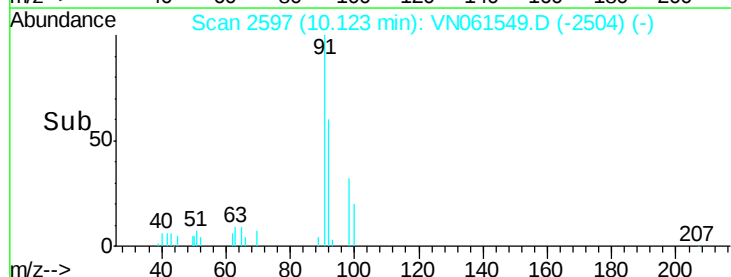
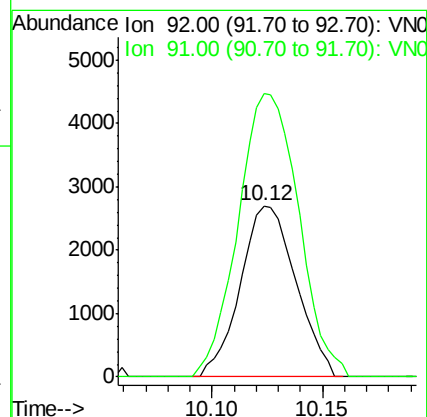
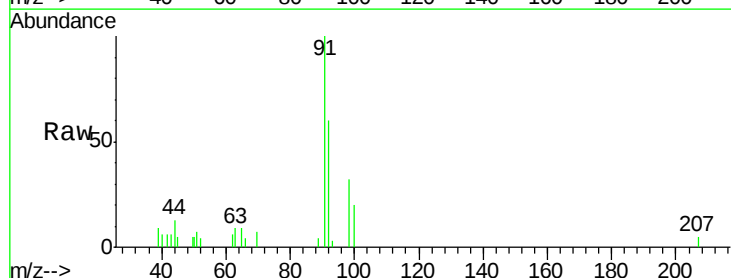
Acq: 28 May 2020 23:13

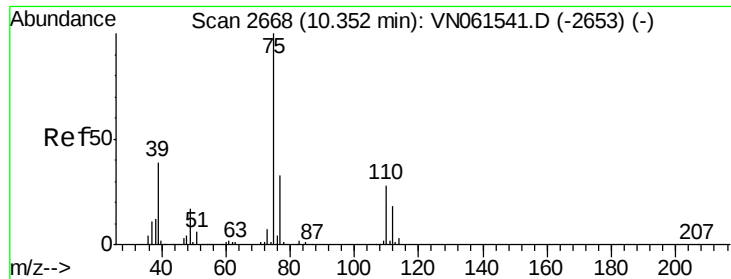
Tgt Ion: 92 Resp: 4712

Ion Ratio Lower Upper

92 100

91 180.0 136.4 204.6





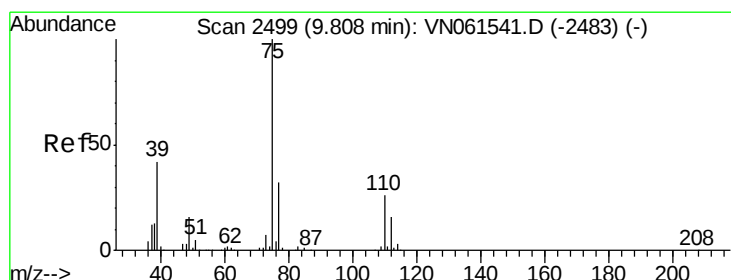
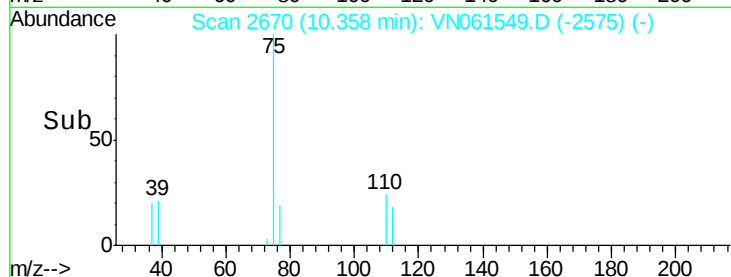
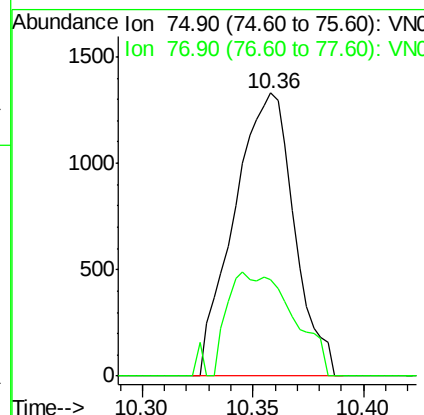
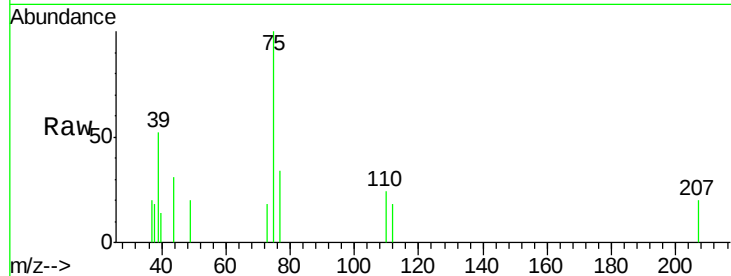
#53
t-1,3-Dichloropropene
Concen: 0.439 ug/l
RT: 10.36 min Scan# 2670
Delta R.T. 0.01 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2020

Tot Ion: 75 Resp: 2511
Ion Ratio Lower Upper
75 100
77 34.1 26.2 39.4

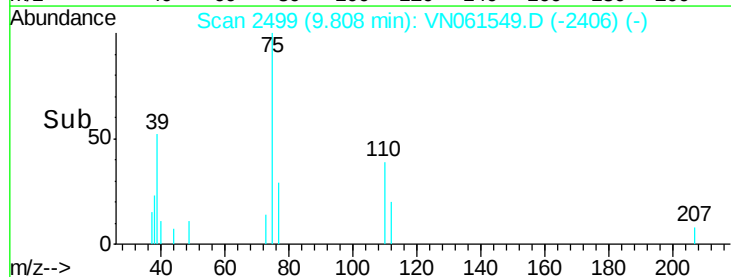
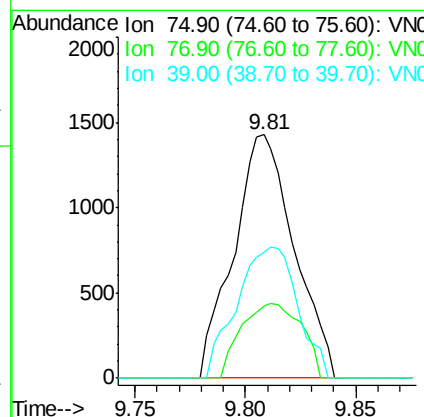
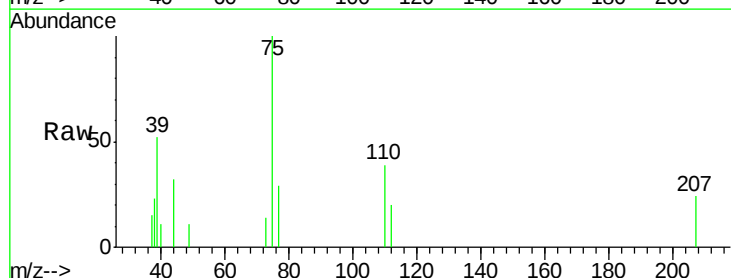
Manual Integrations
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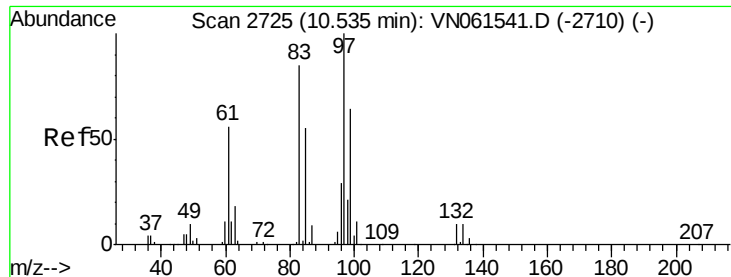
MMDadoda
5/29/2020 5:50:28 PM



#54
cis-1,3-Dichloropropene
Concen: 0.441 ug/l
RT: 9.81 min Scan# 2499
Delta R.T. -0.00 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Tgt Ion: 75 Resp: 2714
Ion Ratio Lower Upper
75 100
77 29.4 25.4 38.2
39 51.7 33.8 50.6#





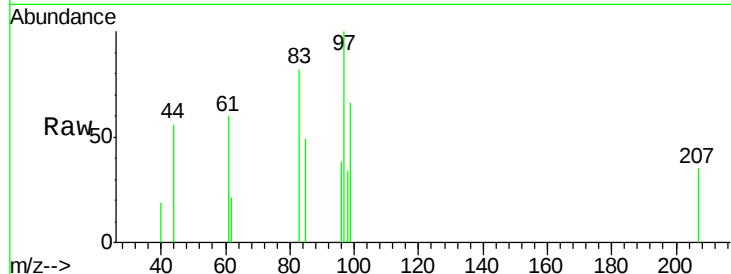
#55
 1,1,2-Trichloroethane
 Concen: 0.447 ug/l
 RT: 10.54 min Scan# 2725
 Delta R.T. -0.00 min
 Lab File: VN061549.D
 Acq: 28 May 2020 23:13

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT2-2020

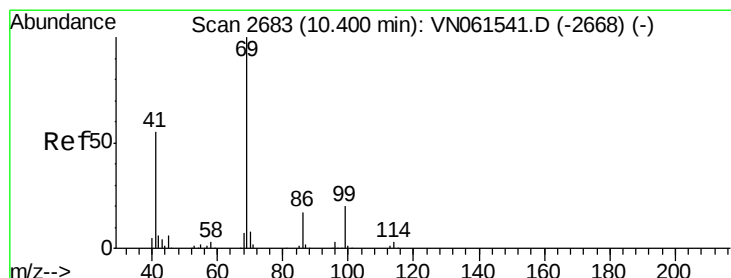
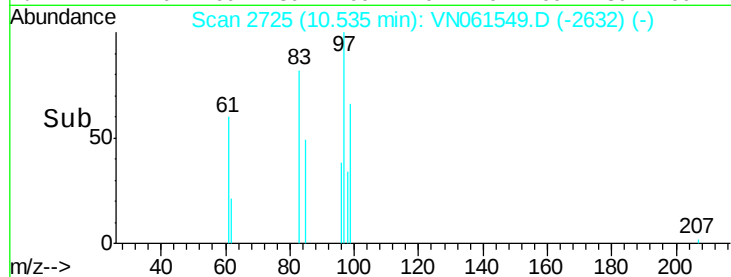
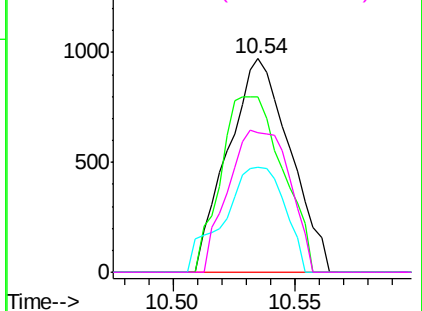
Tot Ion:	97	Resp:	1711
Ion	Ratio	Lower	Upper
97	100		
83	82.1	68.1	102.1
85	49.0	44.1	66.1
99	65.5	51.1	76.7

Manual Integrations
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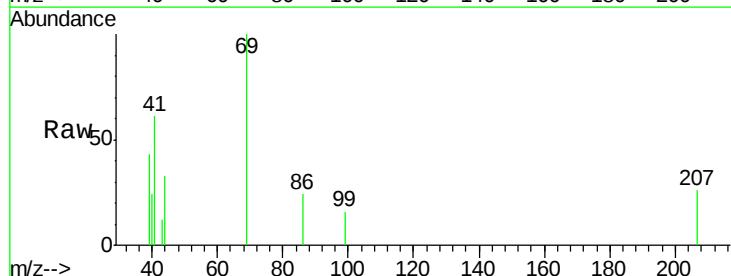


Abundance Ion 96.90 (96.60 to 97.60): VN0
 Ion 82.90 (82.60 to 83.60): VN0
 Ion 84.90 (84.60 to 85.60): VN0
 Ion 98.90 (98.60 to 99.60): VN0

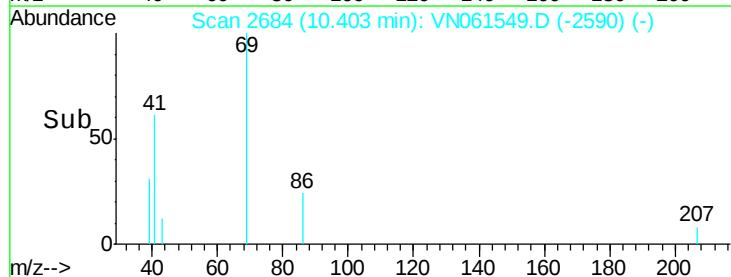
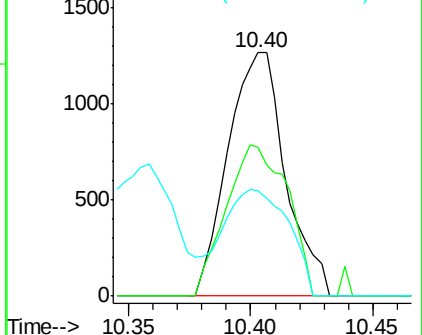


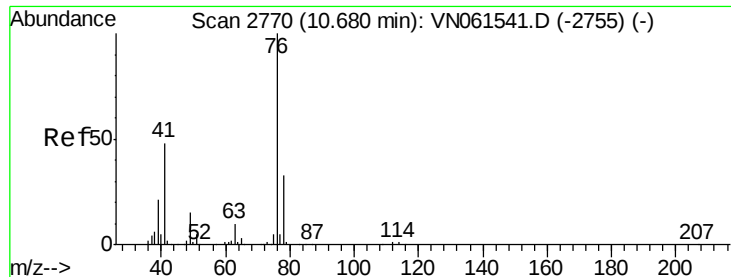
#56
 Ethyl methacrylate
 Concen: 0.388 ug/l
 RT: 10.40 min Scan# 2684
 Delta R.T. 0.00 min
 Lab File: VN061549.D
 Acq: 28 May 2020 23:13

Tgt Ion:	69	Resp:	2075
Ion	Ratio	Lower	Upper
69	100		
41	66.5	43.5	65.3#
39	49.6	27.0	40.6#



Abundance Ion 69.00 (68.70 to 69.70): VN0
 Ion 41.00 (40.70 to 41.70): VN0
 Ion 39.00 (38.70 to 39.70): VN0





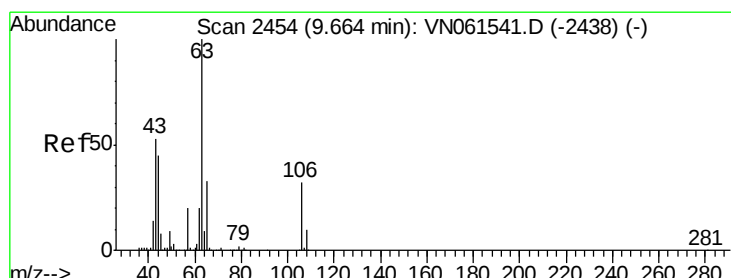
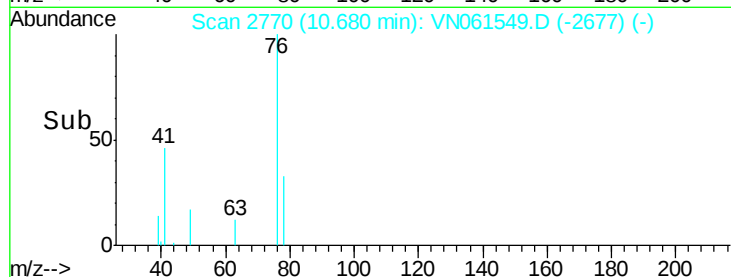
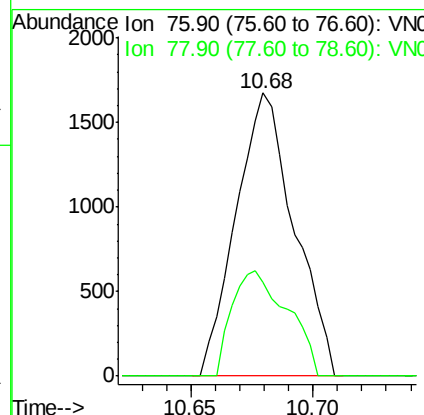
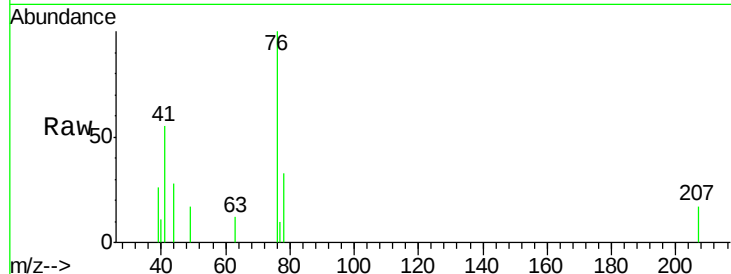
#57
 1,3-Dichloropropane
 Concen: 0.452 ug/l
 RT: 10.68 min Scan# 2770
 Delta R.T. -0.00 min
 Lab File: VN061549.D
 Acq: 28 May 2020 23:13

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
76	100		
78	35.7	26.3	39.5

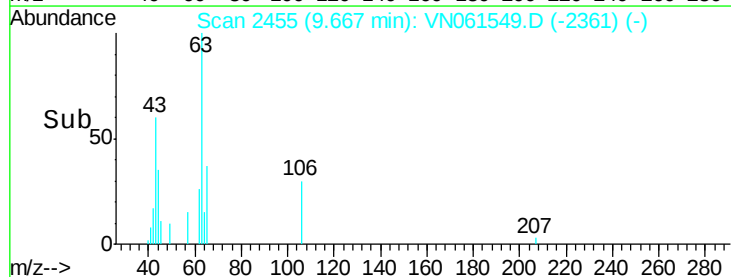
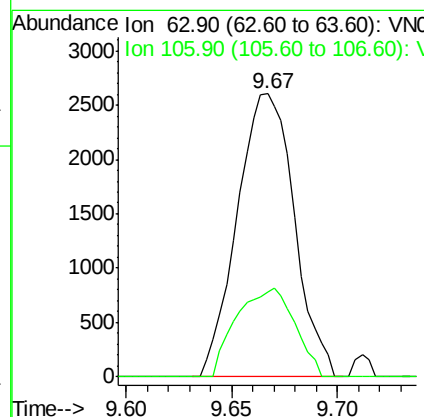
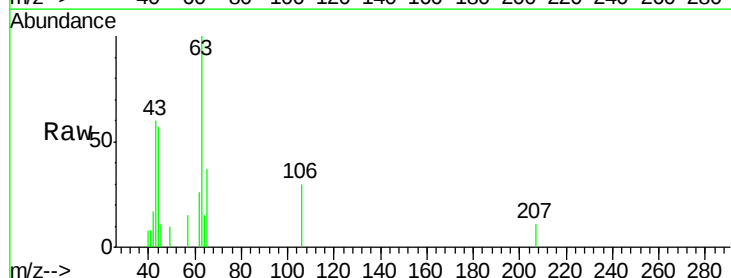
Manual Integrations
 APPROVED

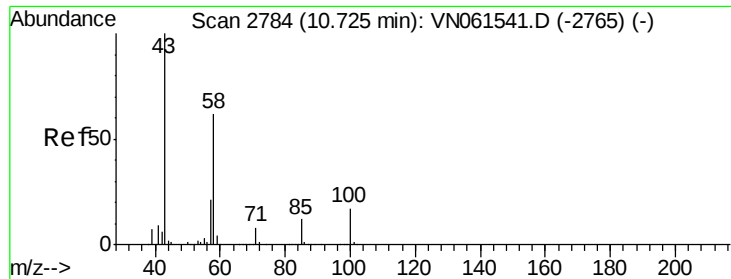
MMDadoda
 5/29/2020 5:50:28 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 2.143 ug/l
 RT: 9.67 min Scan# 2455
 Delta R.T. 0.00 min
 Lab File: VN061549.D
 Acq: 28 May 2020 23:13

Tgt Ion	Ratio	Lower	Upper
63	100		
106	31.9	25.9	38.9





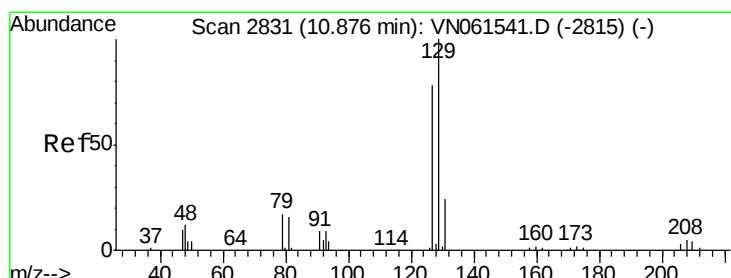
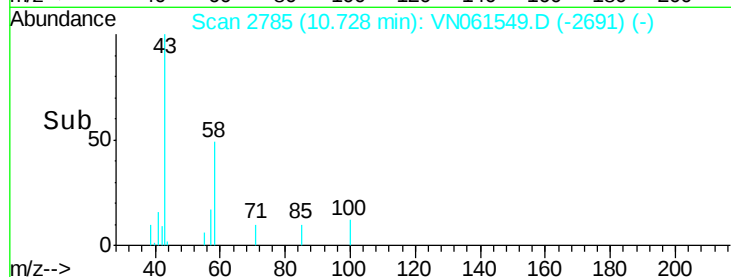
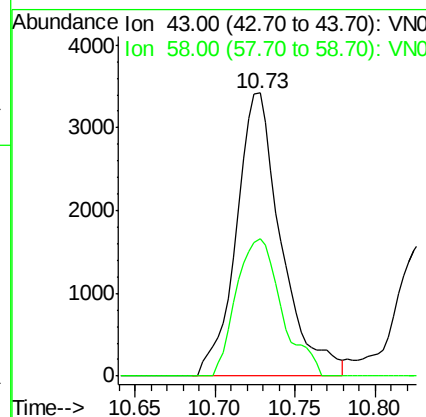
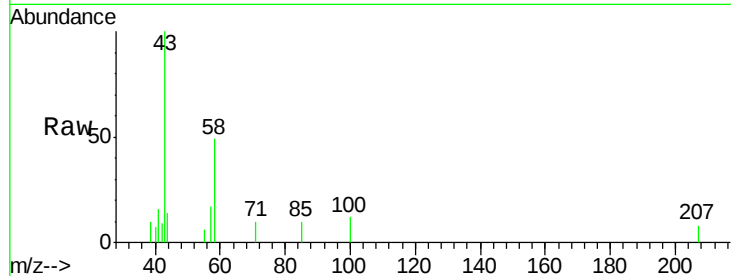
#59
2-Hexanone
Concen: 2.347 ug/l
RT: 10.73 min Scan# 2785
Delta R.T. 0.00 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2020

Tot Ion: 43 Resp: 6570
Ion Ratio Lower Upper
43 100
58 48.8 30.7 92.1

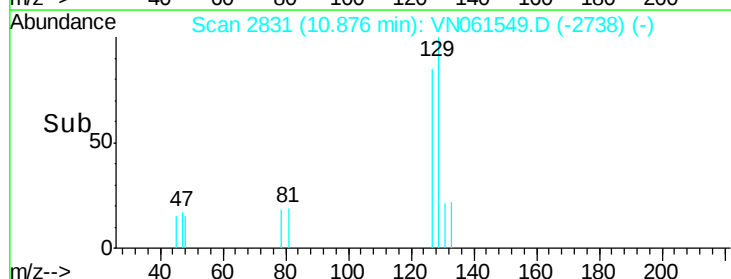
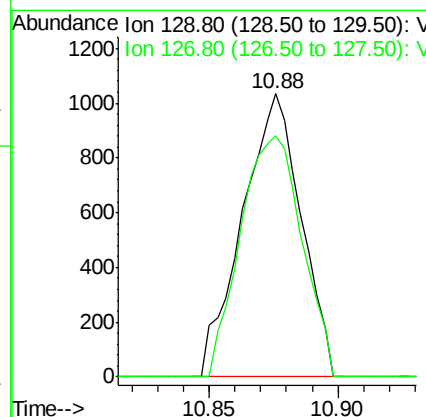
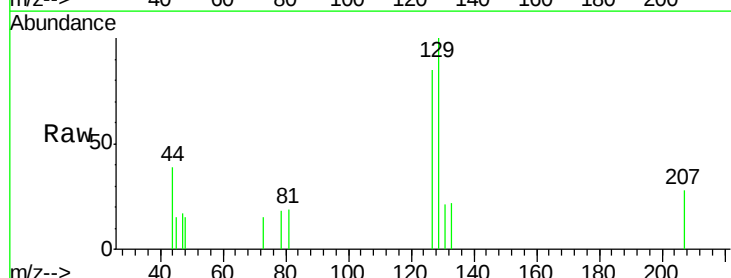
Manual Integrations
APPROVED

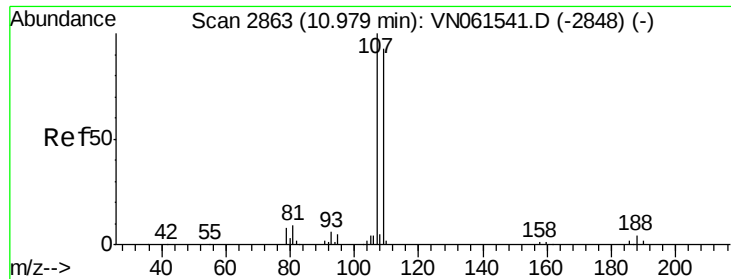
MMDadoda
5/29/2020 5:50:28 PM



#60
Dibromochloromethane
Concen: 0.376 ug/l
RT: 10.88 min Scan# 2831
Delta R.T. -0.00 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Tgt Ion: 129 Resp: 1637
Ion Ratio Lower Upper
129 100
127 89.4 38.8 116.3





#61

1,2-Dibromoethane

Concen: 0.454 ug/l

RT: 10.98 min Scan# 2863

Delta R.T. -0.00 min

Lab File: VN061549.D

Acq: 28 May 2020 23:13

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT2-2020

Tot Ion: 107 Resp: 1813

Ion Ratio Lower Upper

107 100

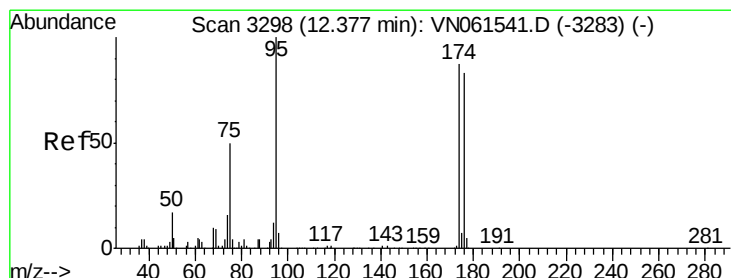
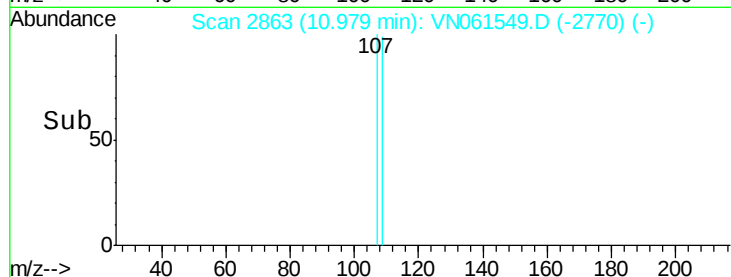
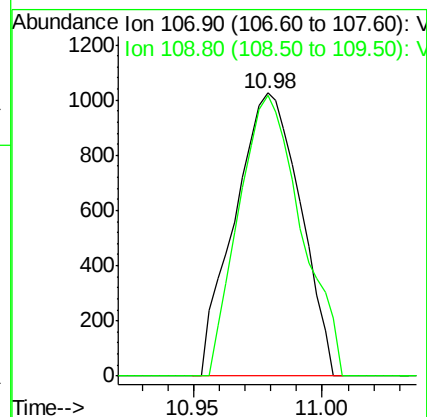
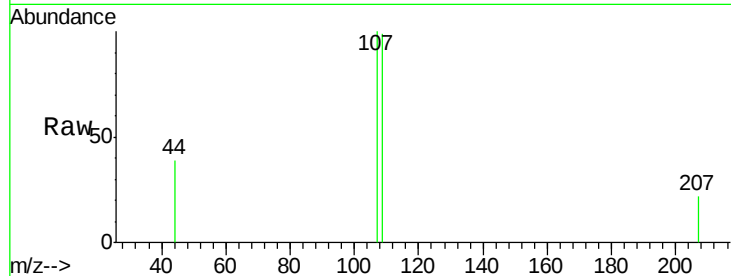
109 94.5 76.1 114.1

Manual Integrations

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5/29/2020 5:50:28 PM



#62

4-Bromofluorobenzene

Concen: 45.718 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN061549.D

Acq: 28 May 2020 23:13

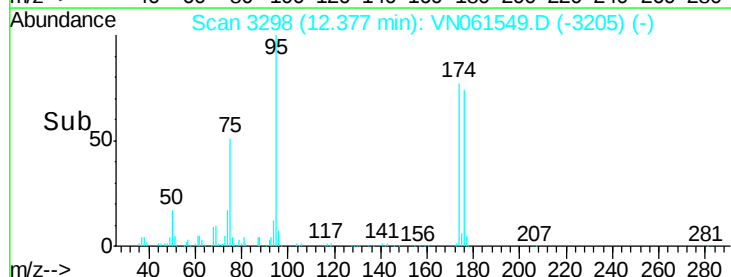
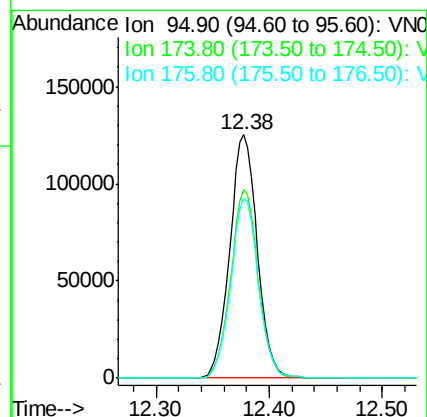
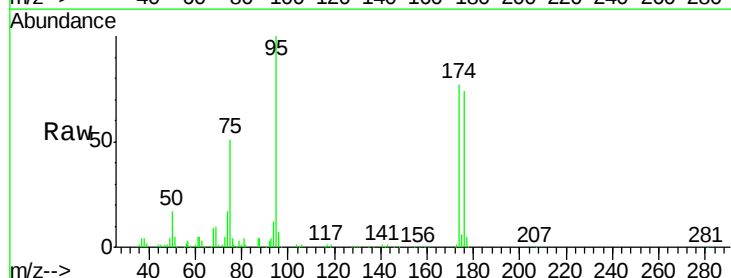
Tgt Ion: 95 Resp: 211387

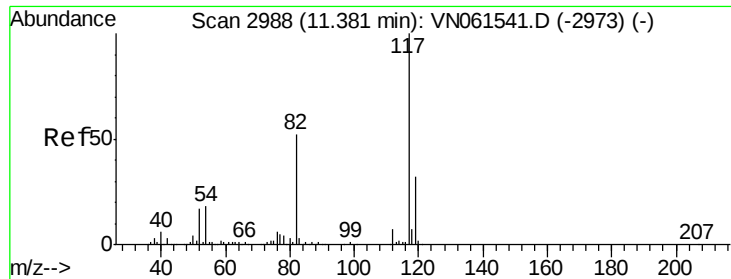
Ion Ratio Lower Upper

95 100

174 77.4 0.0 172.8

176 74.2 0.0 164.8





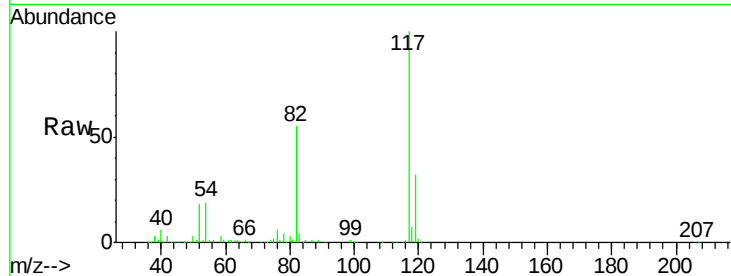
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2020

Tot Ion	Ratio	Resp	Lower	Upper
117	100	488285		
82	54.6		41.5	62.3
119	31.7		25.6	38.4

Manual Integrations
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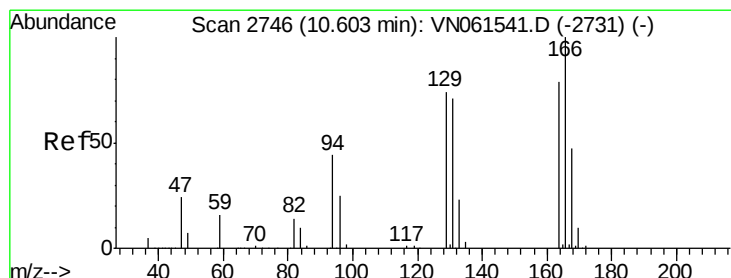
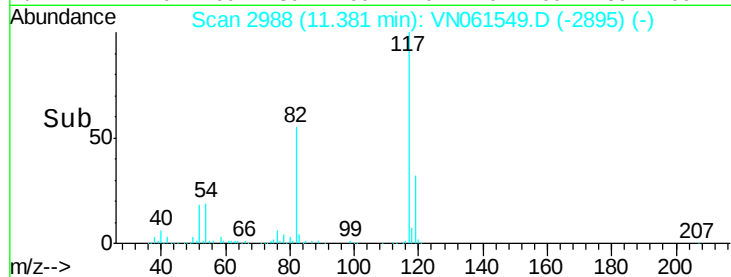
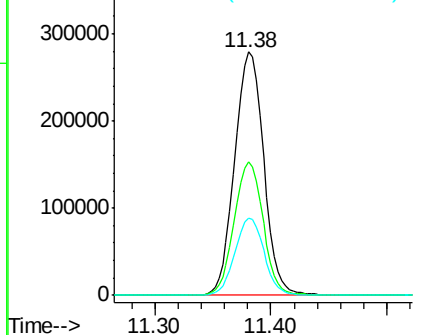


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 0.467 ug/l
RT: 10.61 min Scan# 2747
Delta R.T. 0.00 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	2148		
166	138.5		101.5	152.3
129	91.0		74.9	112.3
131	80.3		72.2	108.2

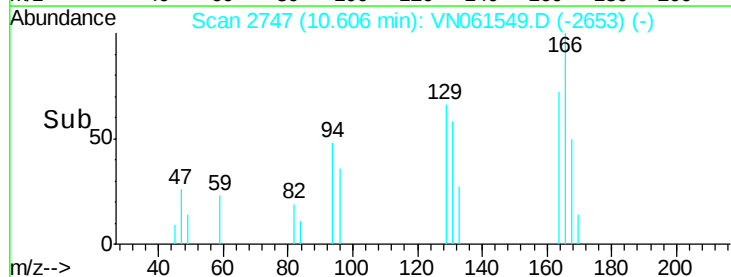
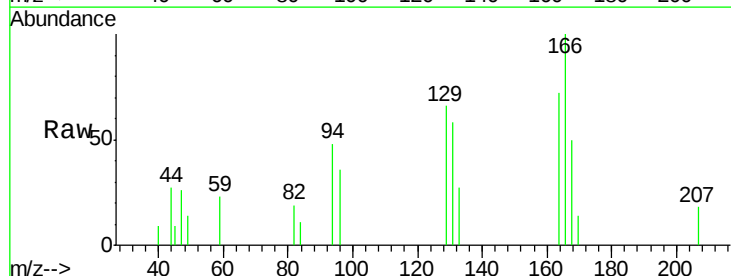
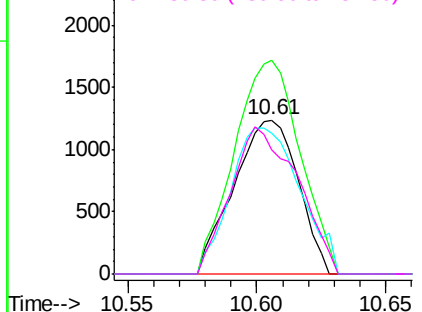
Abundance

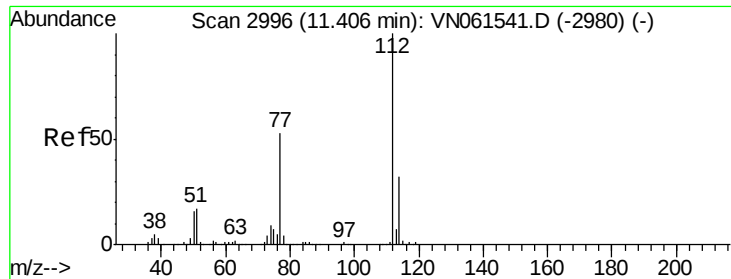
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





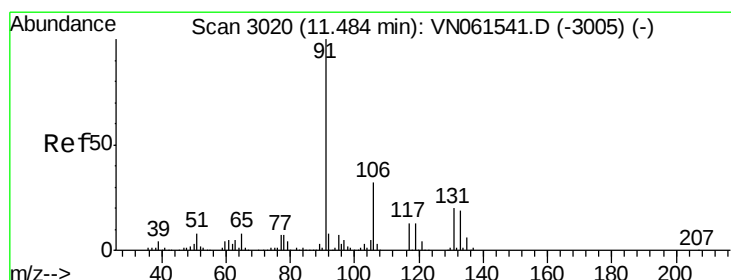
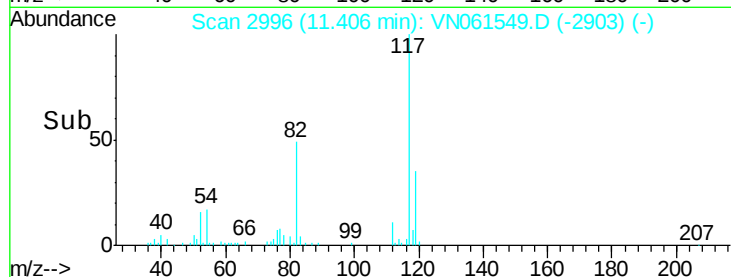
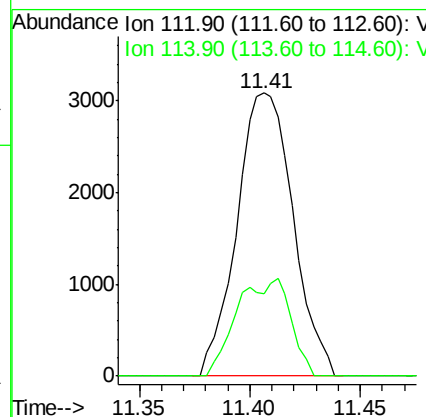
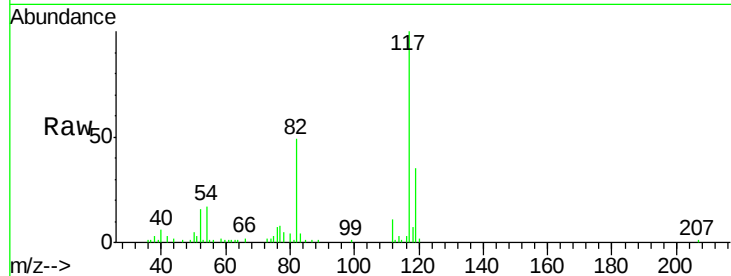
#65
Chlorobenzene
Concen: 0.538 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2020

Tot Ion:112 Resp: 5459
Ion Ratio Lower Upper
112 100
114 29.0 25.7 38.5

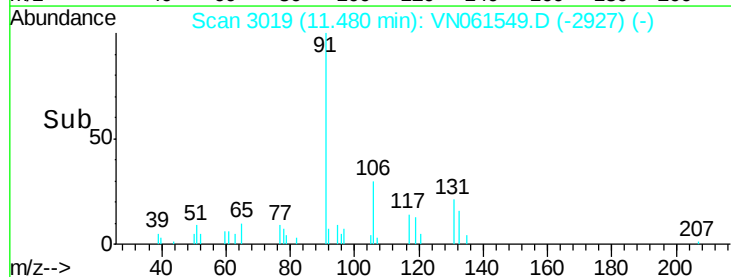
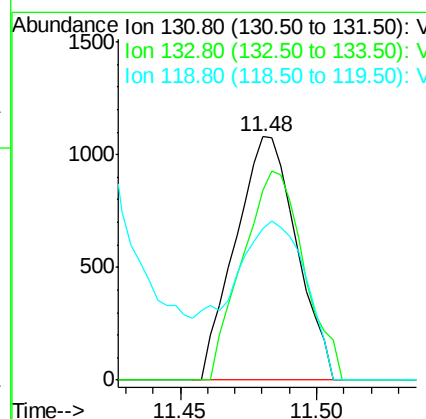
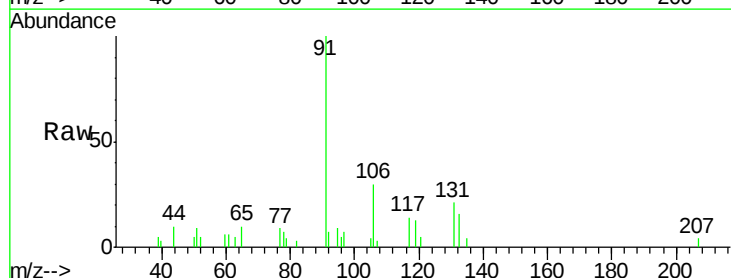
Manual Integrations
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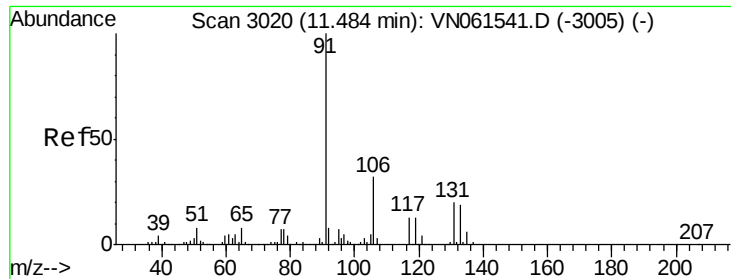
MMDadoda
5/29/2020 5:50:28 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 0.444 ug/l
RT: 11.48 min Scan# 3019
Delta R.T. -0.00 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Tgt Ion:131 Resp: 1678
Ion Ratio Lower Upper
131 100
133 86.4 47.4 142.2
119 0.0 32.6 97.8#





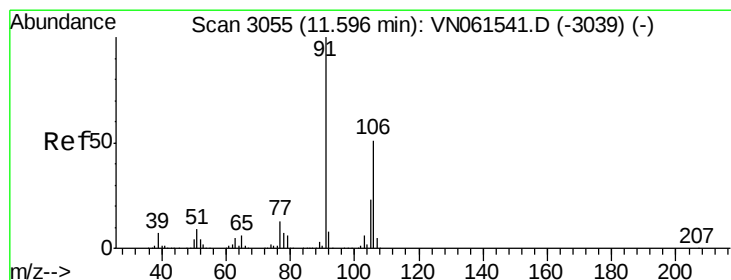
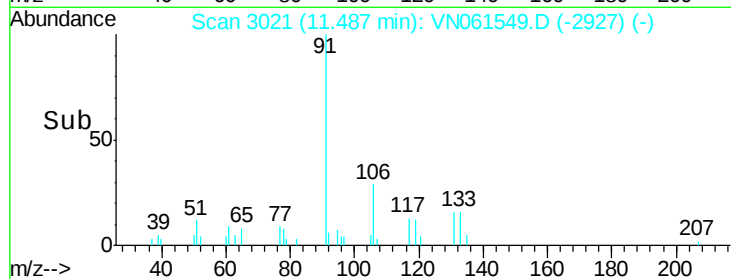
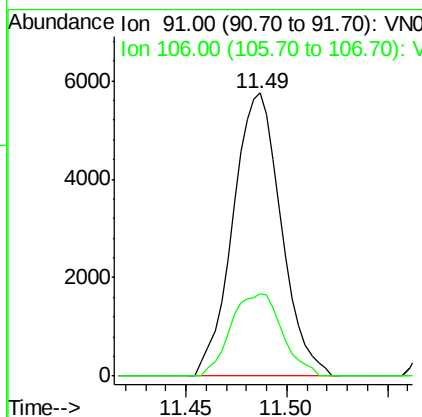
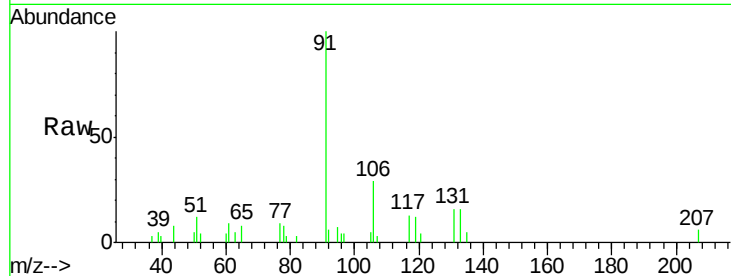
#67
Ethyl Benzene
Concen: 0.549 ug/l
RT: 11.49 min Scan# 3021
Delta R.T. 0.00 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2020

Tot Ion: 91 Resp: 9629
Ion Ratio Lower Upper
91 100
106 29.1 25.6 38.4

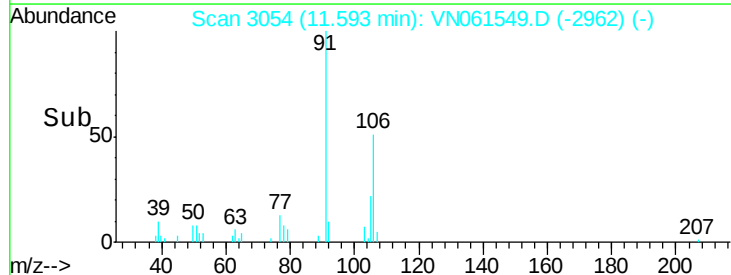
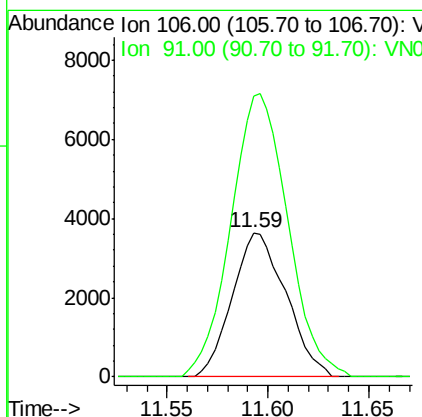
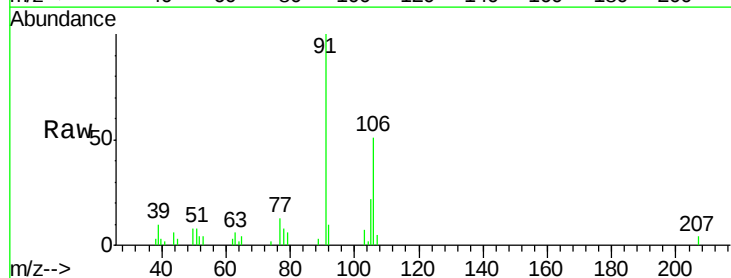
Manual Integrations
APPROVED

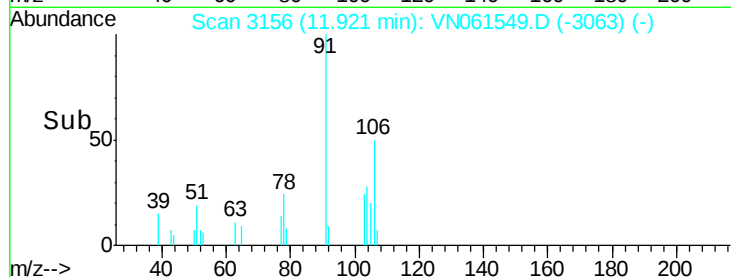
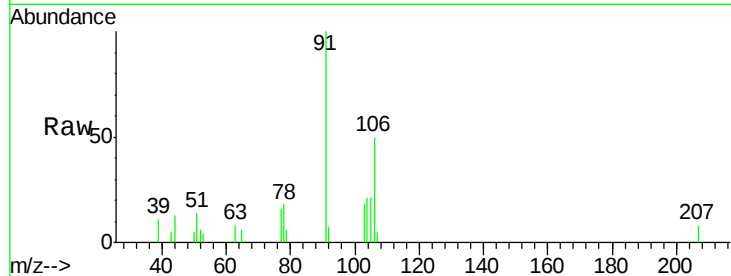
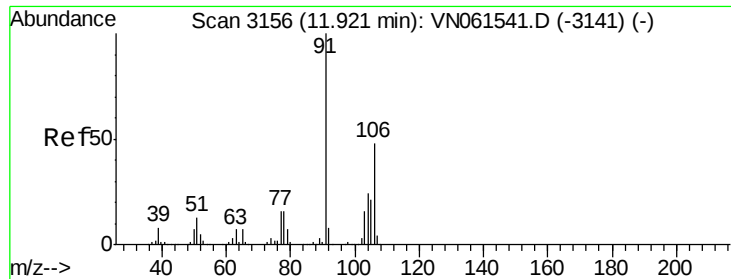
MMDadoda
5/29/2020 5:50:28 PM



#68
m/p-Xylenes
Concen: 0.972 ug/l
RT: 11.59 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Tgt Ion: 106 Resp: 6763
Ion Ratio Lower Upper
106 100
91 208.6 156.2 234.4





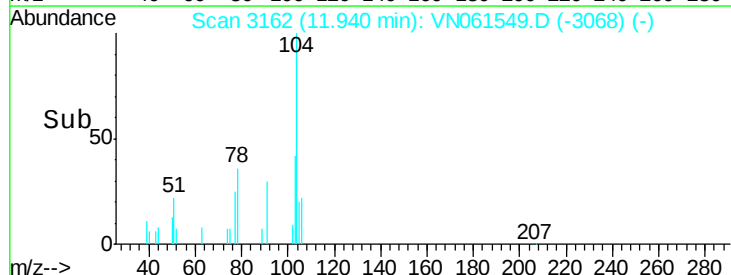
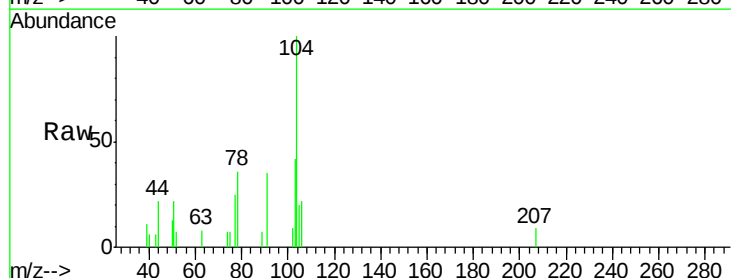
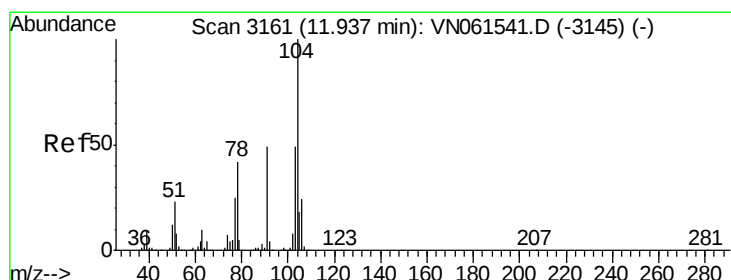
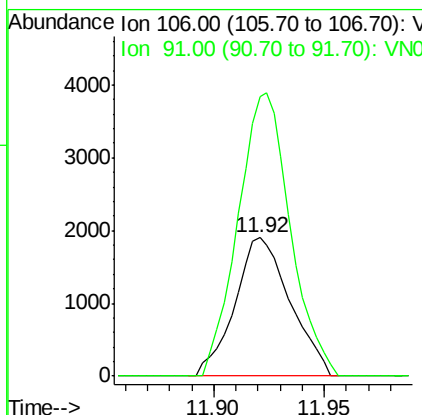
#69
o-Xylene
Concen: 0.500 ug/l
RT: 11.92 min Scan# 3156
Delta R.T. -0.00 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Tot Ion:106 Resp: 3306
Ion Ratio Lower Upper
106 100
91 193.2 103.3 309.8

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2020

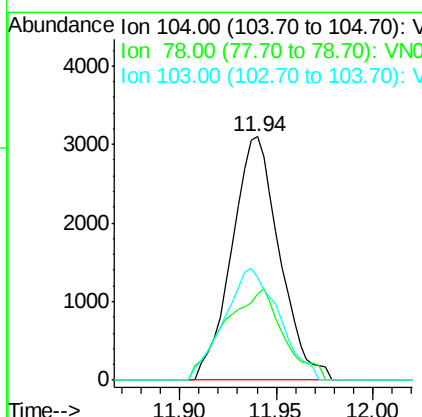
Manual Integrations
APPROVED

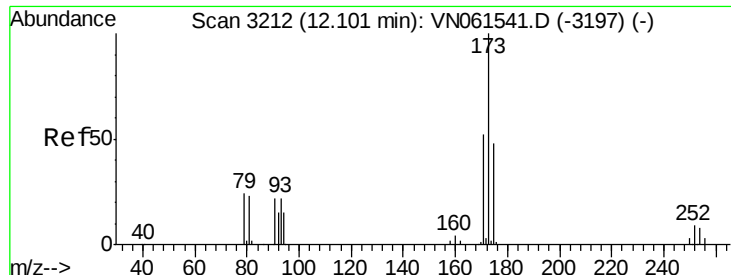
MMDadoda
5/29/2020 5:50:28 PM



#70
Styrene
Concen: 0.485 ug/l
RT: 11.94 min Scan# 3162
Delta R.T. 0.00 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Tgt Ion:104 Resp: 5309
Ion Ratio Lower Upper
104 100
78 46.1 37.4 56.0
103 52.7 42.3 63.5





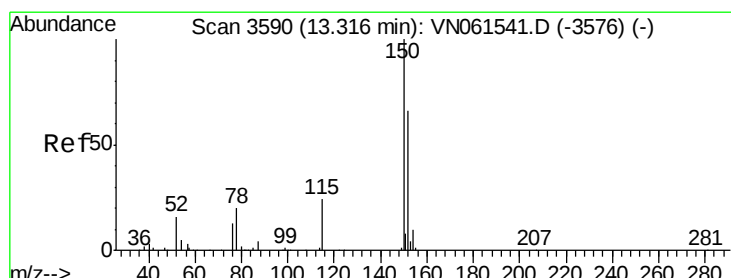
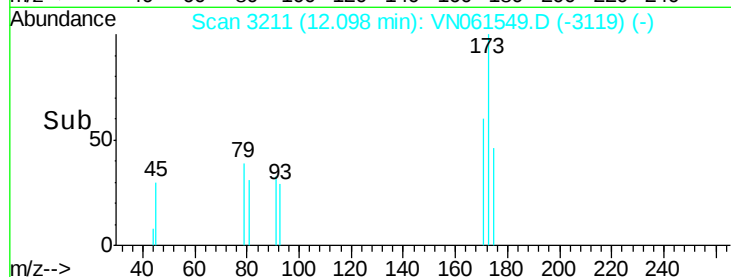
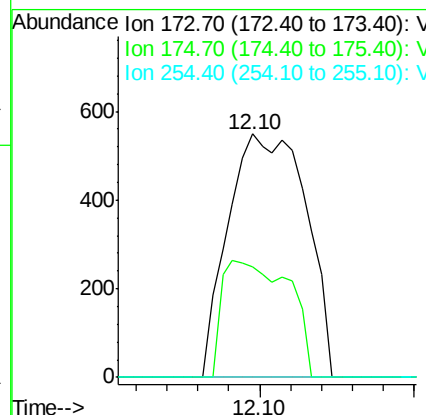
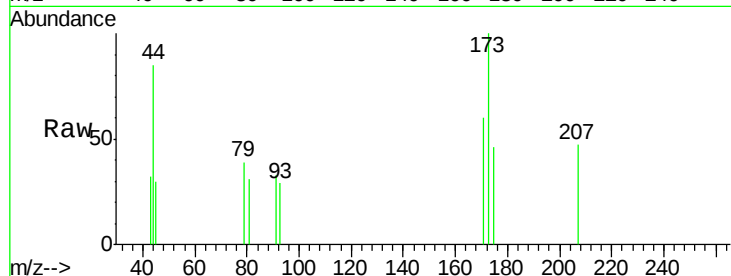
#71
Bromoform
Concen: 0.330 ug/l
RT: 12.10 min Scan# 3211
Delta R.T. -0.00 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
173	100		
175	41.1	24.4	73.2
254	0.0	0.0	0.0

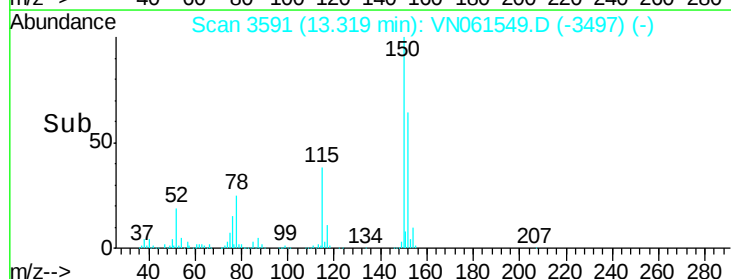
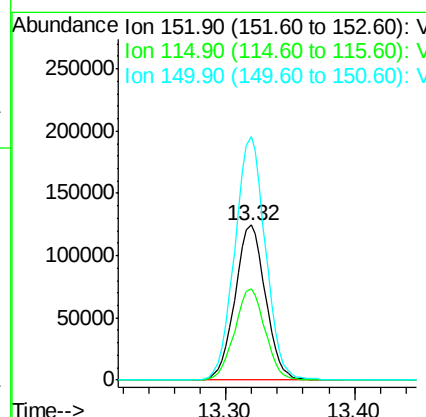
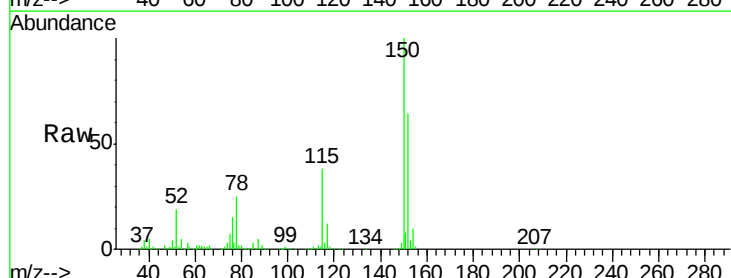
Manual Integrations
APPROVED

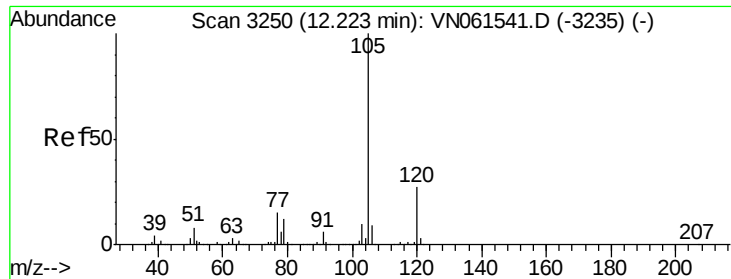
MMDadoda
5/29/2020 5:50:28 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3591
Delta R.T. 0.00 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.6	28.0	84.0
150	157.4	0.0	344.0





#73

Isopropylbenzene

Concen: 0.586 ug/l

RT: 12.22 min Scan# 3250

Delta R.T. -0.00 min

Lab File: VN061549.D

Acq: 28 May 2020 23:13

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT2-2020

Tot Ion: 105 Resp: 8751

Ion Ratio Lower Upper

105 100

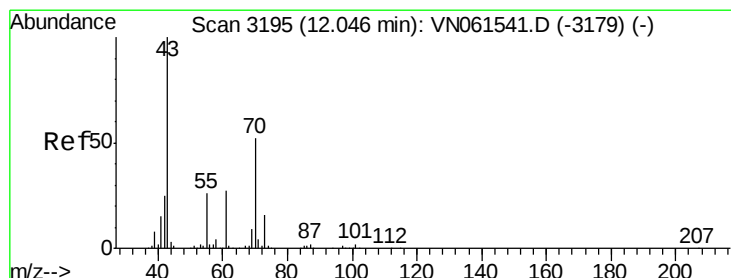
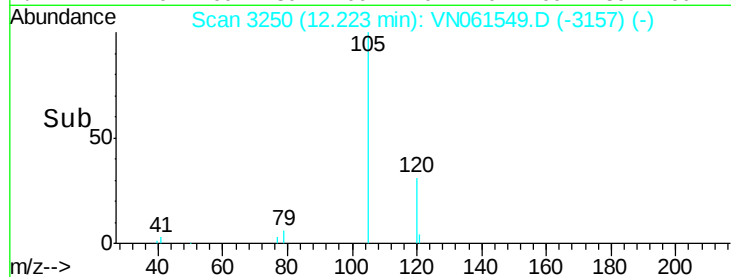
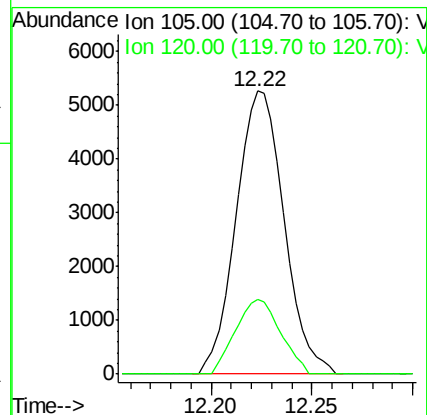
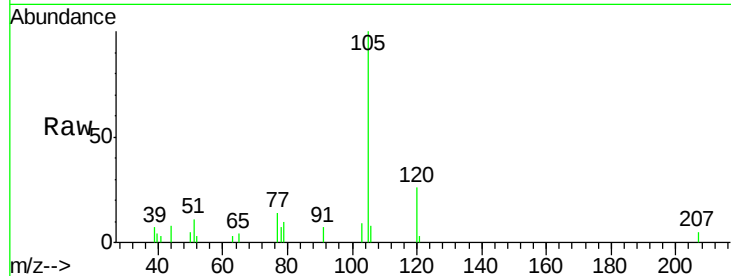
120 24.8 13.8 41.3

Manual Integrations

APPROVED

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5/29/2020 5:50:28 PM



#74

N-ethyl acetate

Concen: 0.515 ug/l

RT: 12.05 min Scan# 3195

Delta R.T. -0.00 min

Lab File: VN061549.D

Acq: 28 May 2020 23:13

Tgt Ion: 43 Resp: 2423

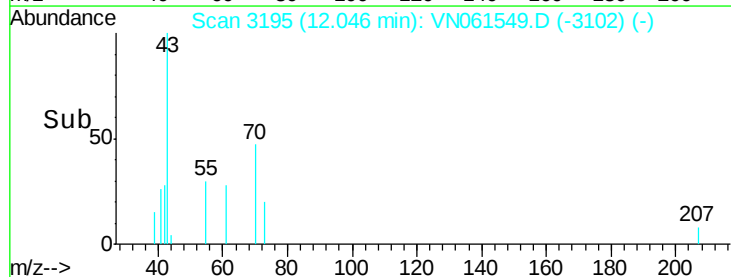
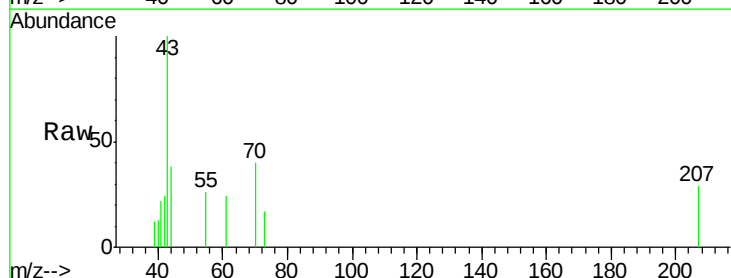
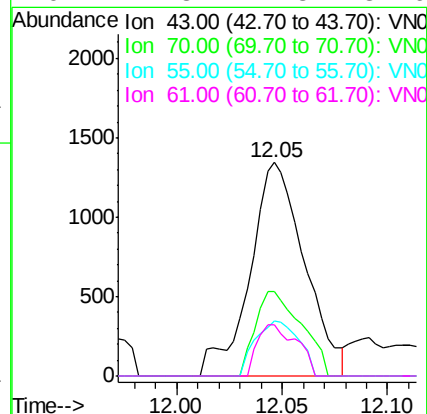
Ion Ratio Lower Upper

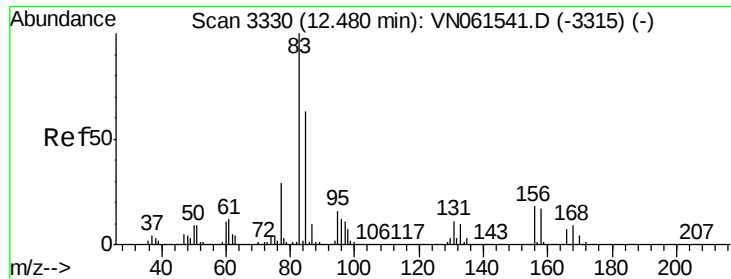
43 100

70 33.3 40.5 60.7#

55 20.5 20.6 31.0#

61 17.3 21.8 32.6#





#75

1,1,2,2-Tetrachloroethane

Concen: 0.543 ug/l

RT: 12.48 min Scan# 3329

Delta R.T. -0.00 min

Lab File: VN061549.D

Acq: 28 May 2020 23:13

Instrument :

MSVOA_N

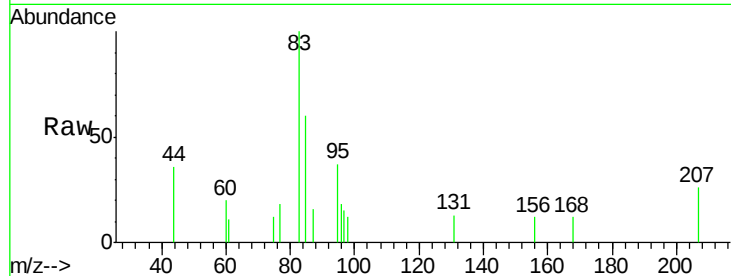
ClientSampleId :

LOD-MDL-WATER-01-QT2-2020

Tot Ion:	83	Resp:	2273
Ion Ratio	Lower	Upper	
83	100		
131	5.9	5.5	16.5
85	59.3	32.1	96.3

Manual Integrations
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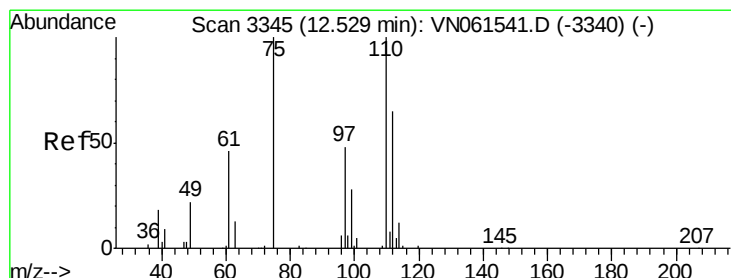
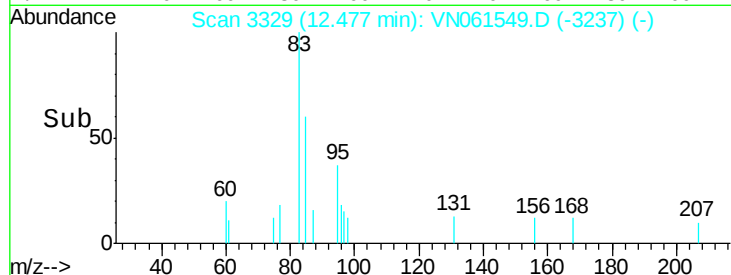
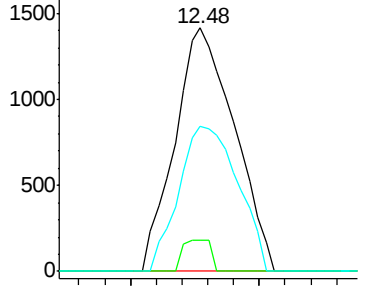
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Abundance Ion 82.90 (82.60 to 83.60): VN061549.D (-3330) (-)

Ion 130.80 (130.50 to 131.50): VN061549.D (-3330) (-)

Ion 84.90 (84.60 to 85.60): VN061549.D (-3330) (-)



#76

1,2,3-Trichloropropane

Concen: 0.604 ug/l m

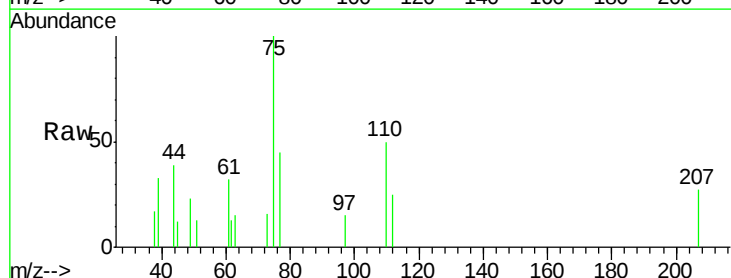
RT: 12.53 min Scan# 3346

Delta R.T. 0.00 min

Lab File: VN061549.D

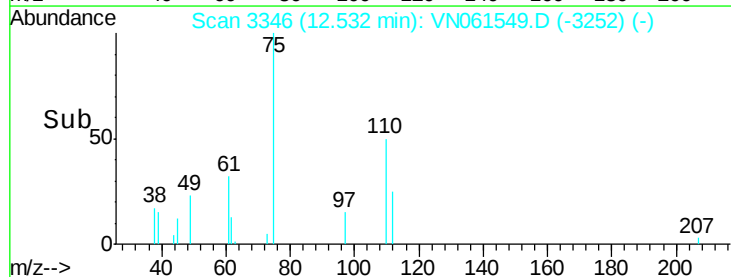
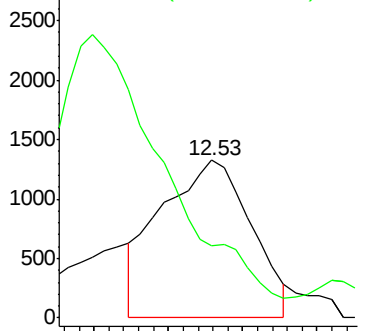
Acq: 28 May 2020 23:13

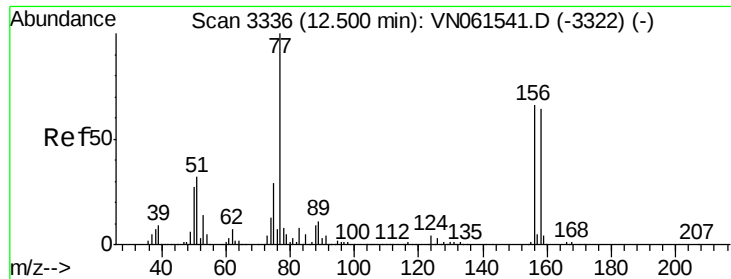
Tgt Ion:	75	Resp:	2248
Ion Ratio	Lower	Upper	
75	100		
77	48.7	0.0	0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN061549.D (-3345) (-)

Ion 77.00 (76.70 to 77.70): VN061549.D (-3345) (-)





#77

Bromobenzene

Concen: 0.599 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN061549.D

Acq: 28 May 2020 23:13

Instrument :

MSVOA_N

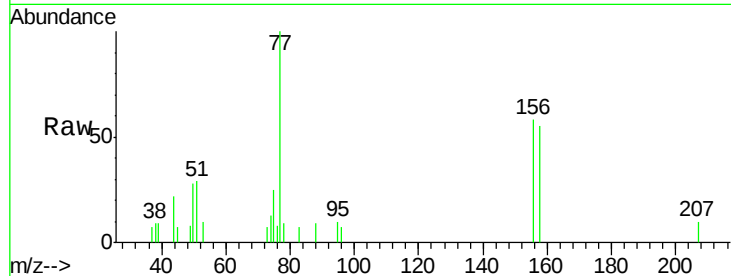
ClientSampleId :

LOD-MDL-WATER-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
156	100		
77	228.1	90.9	272.7
158	91.5	48.4	145.3

Manual Integrations
APPROVED

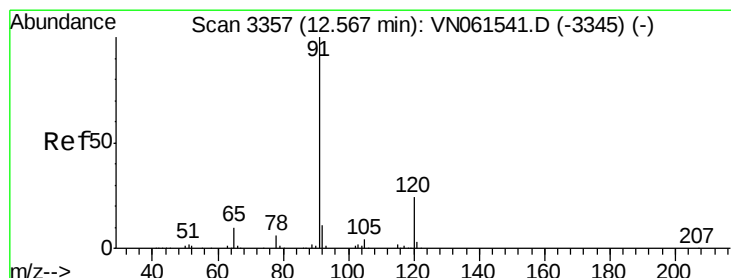
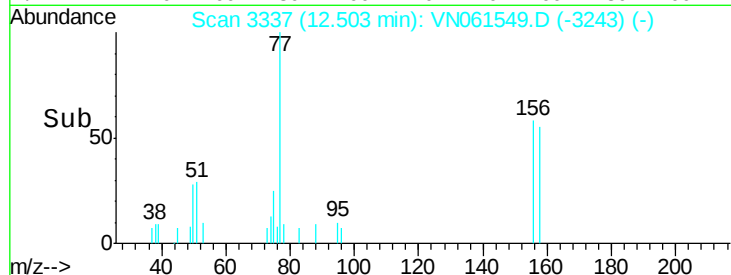
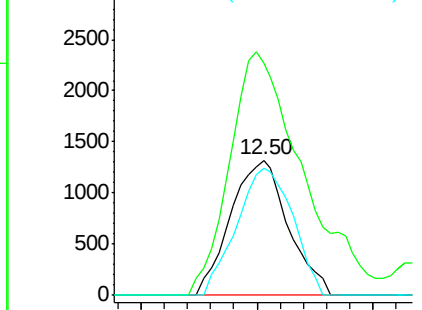
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): V

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 0.579 ug/l

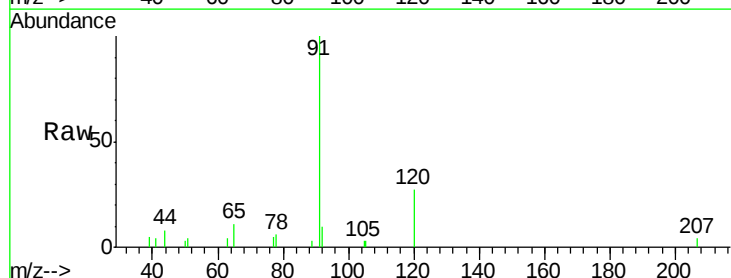
RT: 12.57 min Scan# 3357

Delta R.T. -0.00 min

Lab File: VN061549.D

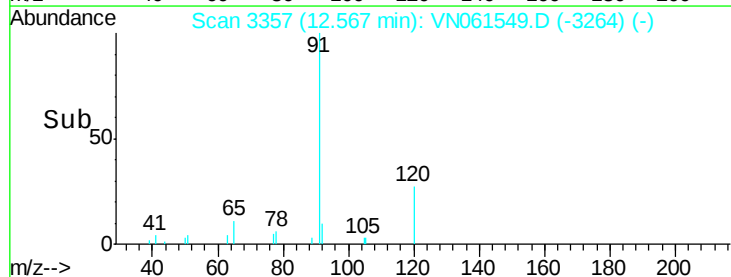
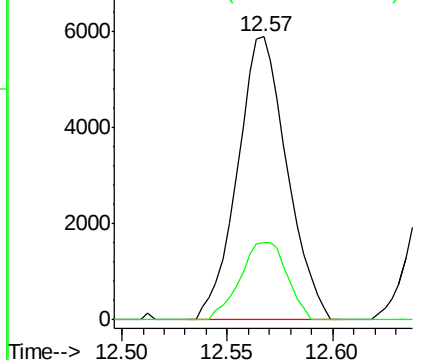
Acq: 28 May 2020 23:13

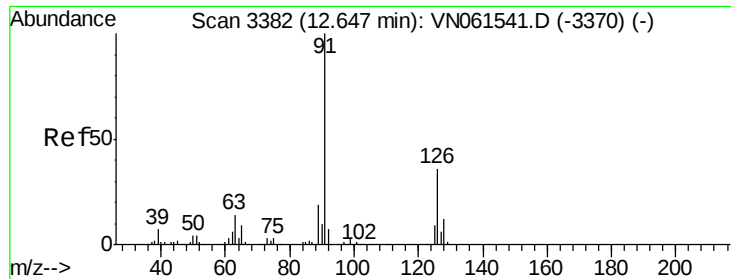
Tgt Ion	Ratio	Lower	Upper
91	100		
120	25.8	12.3	36.9



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 0.580 ug/l

RT: 12.65 min Scan# 3383

Delta R.T. 0.00 min

Lab File: VN061549.D

Acq: 28 May 2020 23:13

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT2-2020

Tot Ion: 91 Resp: 5762

Ion Ratio Lower Upper

91 100

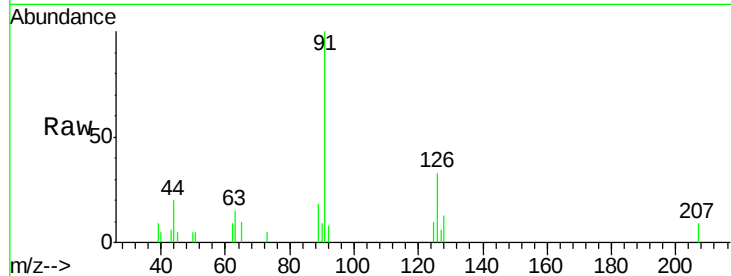
126 30.5 17.9 53.7

Manual Integrations

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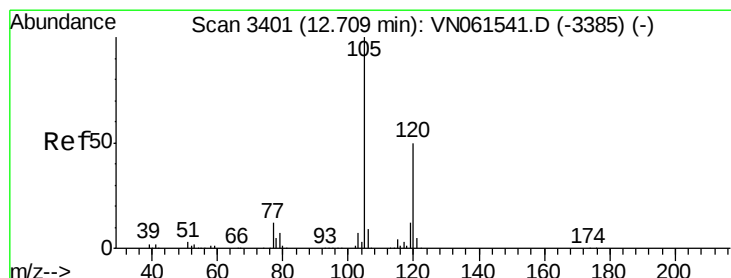
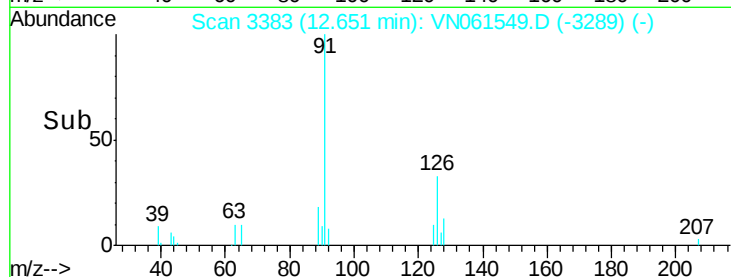


Abundance Ion 91.00 (90.70 to 91.70): VN061549.D (-3382) (-)

Ion 125.90 (125.60 to 126.60): VN061549.D (-3382) (-)

12.65

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.500 ug/l

RT: 12.71 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN061549.D

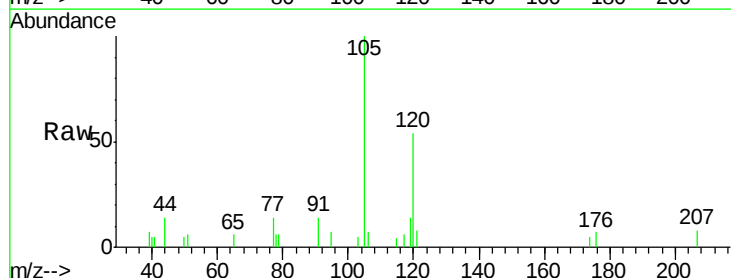
Acq: 28 May 2020 23:13

Tgt Ion: 105 Resp: 6240

Ion Ratio Lower Upper

105 100

120 54.2 25.1 75.2

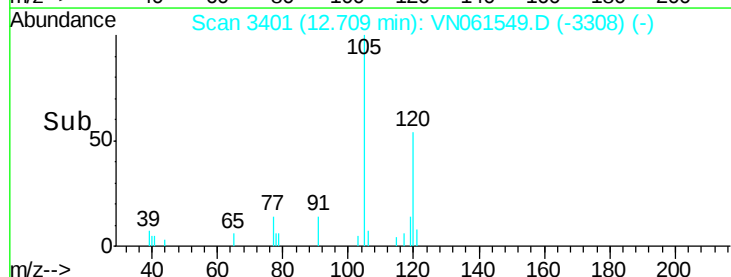


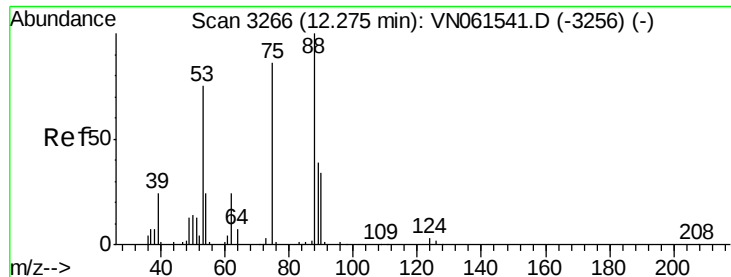
Abundance Ion 105.00 (104.70 to 105.70): VN061549.D (-3401) (-)

Ion 120.00 (119.70 to 120.70): VN061549.D (-3401) (-)

12.71

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 0.375 ug/l m

RT: 12.27 min Scan# 3266

Delta R.T. -0.00 min

Lab File: VN061549.D

Acq: 28 May 2020 23:13

Instrument :

MSVOA_N

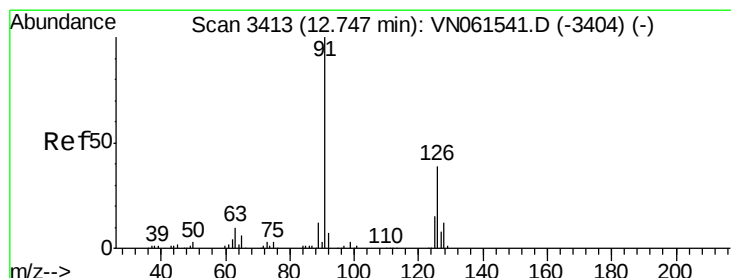
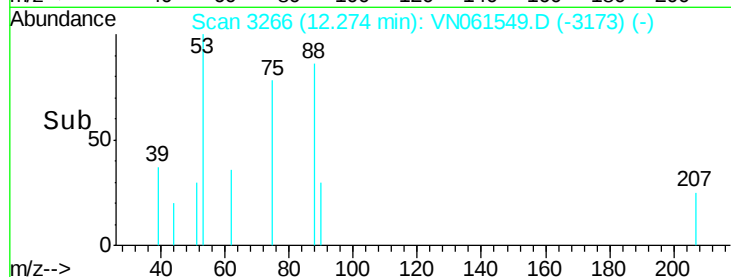
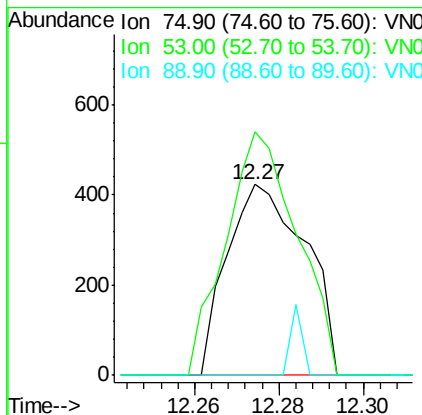
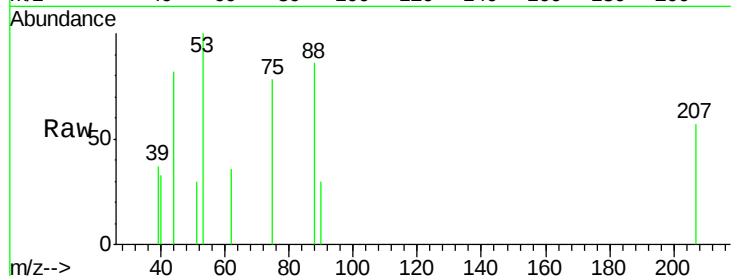
ClientSampleId :

LOD-MDL-WATER-01-QT2-2020

Tot Ion:	75	Resp:	546
Ion	Ratio	Lower	Upper
75	100		
53	0.0	67.8	101.8#
89	0.0	37.1	55.7#

Manual Integrations
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#82

4-Chlorotoluene

Concen: 0.624 ug/l

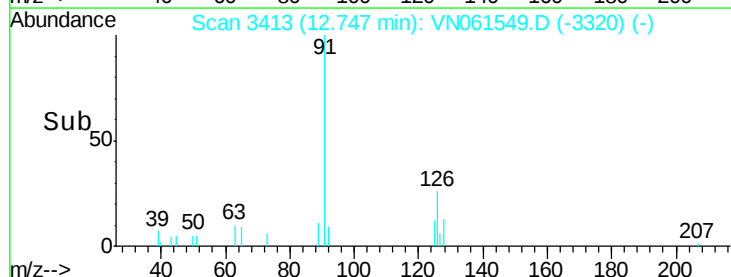
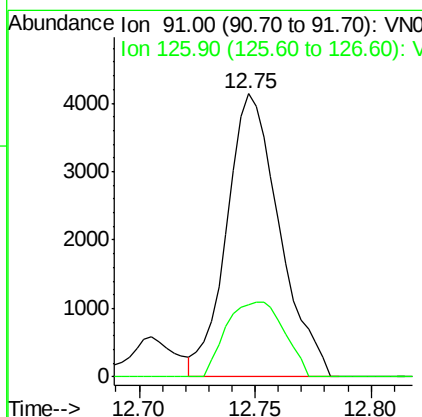
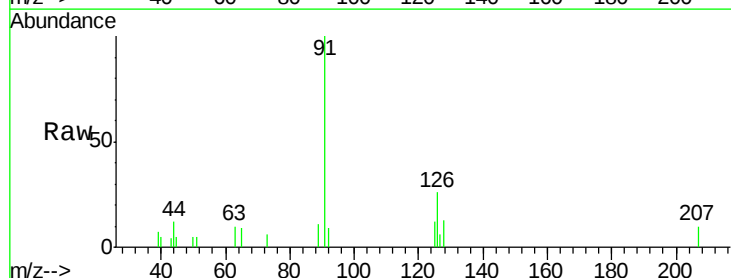
RT: 12.75 min Scan# 3413

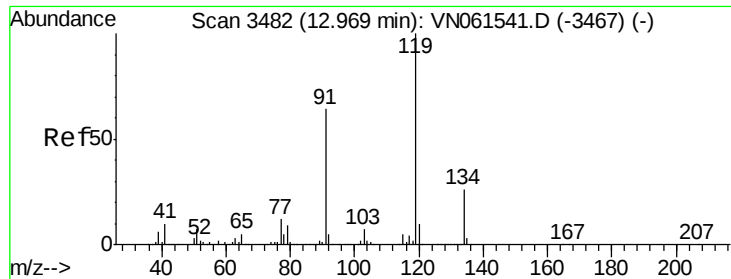
Delta R.T. -0.00 min

Lab File: VN061549.D

Acq: 28 May 2020 23:13

Tgt Ion:	91	Resp:	6527
Ion	Ratio	Lower	Upper
91	100		
126	29.1	17.5	52.6





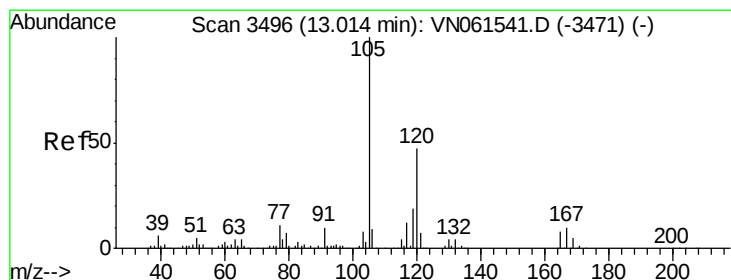
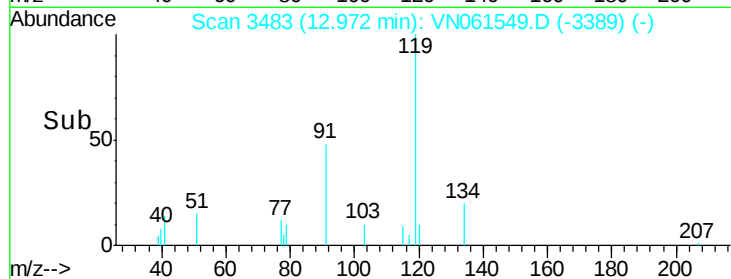
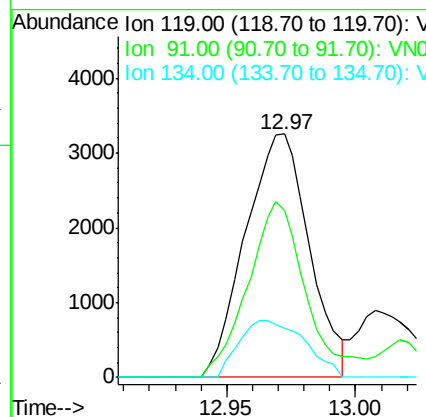
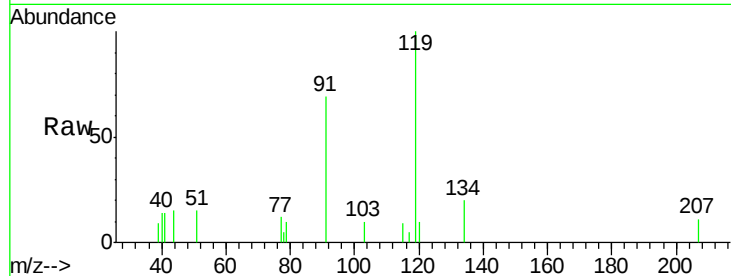
#83
 tert-Butylbenzene
 Concen: 0.509 ug/l
 RT: 12.97 min Scan# 3483
 Delta R.T. 0.00 min
 Lab File: VN061549.D
 Acq: 28 May 2020 23:13

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
119	100		
91	66.0	31.3	93.8
134	24.1	13.5	40.4

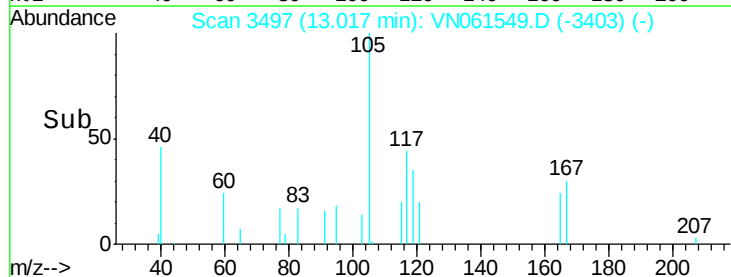
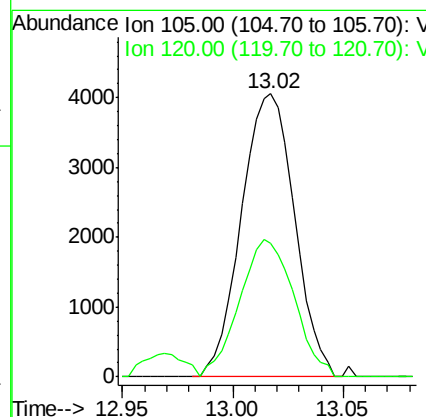
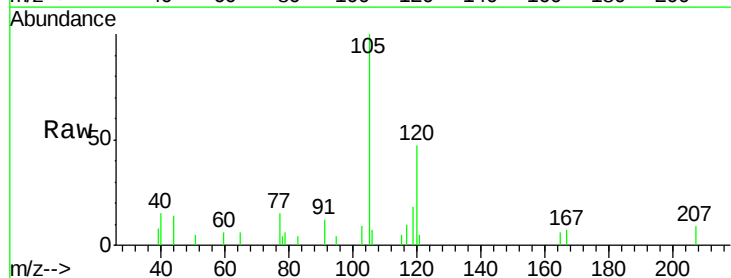
Manual Integrations
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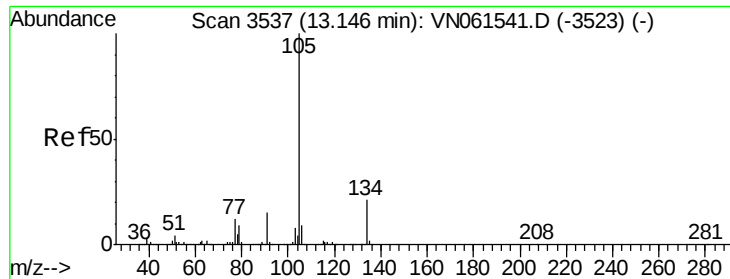
MMDadoda
 5/29/2020 5:50:28 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 0.547 ug/l
 RT: 13.02 min Scan# 3497
 Delta R.T. 0.00 min
 Lab File: VN061549.D
 Acq: 28 May 2020 23:13

Tgt Ion	Ratio	Lower	Upper
105	100		
120	49.6	23.2	69.5





#85

sec-Butylbenzene

Concen: 0.508 ug/l

RT: 13.15 min Scan# 3538

Delta R.T. 0.00 min

Lab File: VN061549.D

Acq: 28 May 2020 23:13

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT2-2020

Tot Ion:105 Resp: 7212

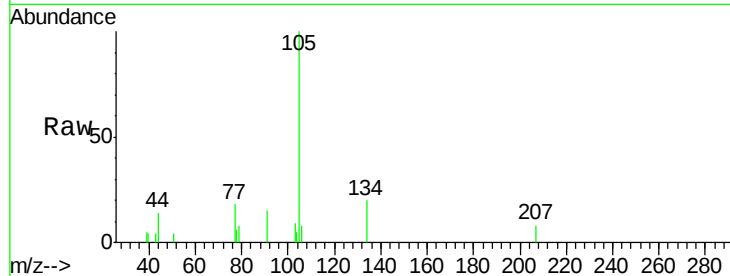
Ion Ratio Lower Upper

105 100

134 20.7 10.7 31.9

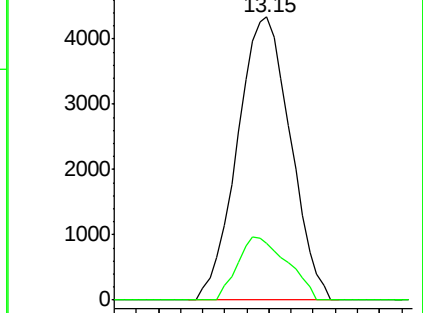
Manual Integrations
APPROVED

MMDadoda
5/29/2020 5:50:28 PM

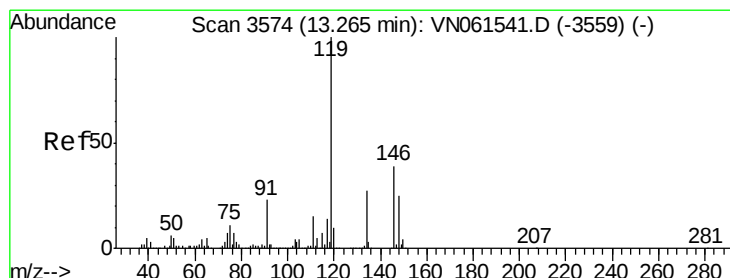
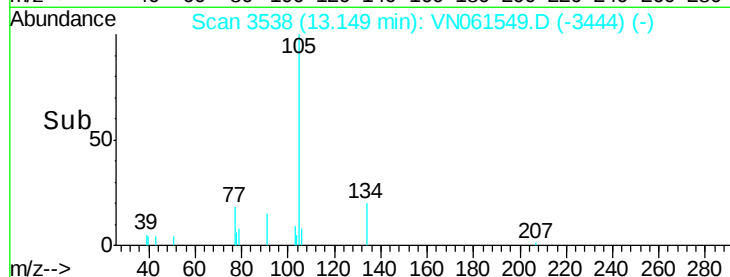


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



Time-->



#86

p-Isopropyltoluene

Concen: 0.498 ug/l

RT: 13.26 min Scan# 3573

Delta R.T. -0.00 min

Lab File: VN061549.D

Acq: 28 May 2020 23:13

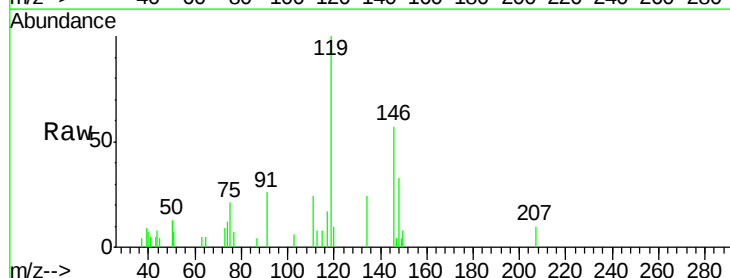
Tgt Ion:119 Resp: 6519

Ion Ratio Lower Upper

119 100

134 15.2 13.5 40.5

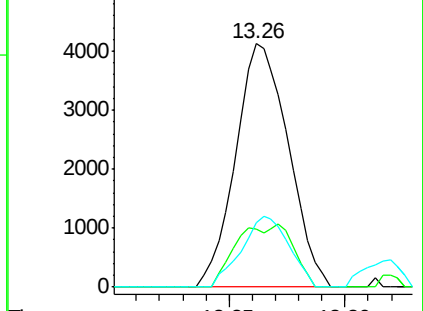
91 26.2 11.4 34.1



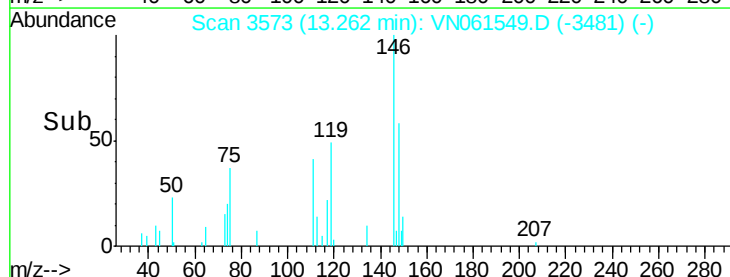
Abundance Ion 119.00 (118.70 to 119.70): V

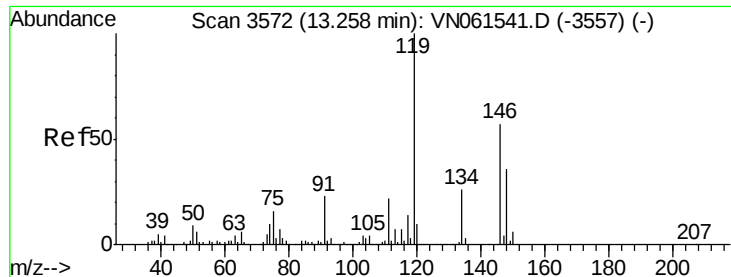
Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



Time-->





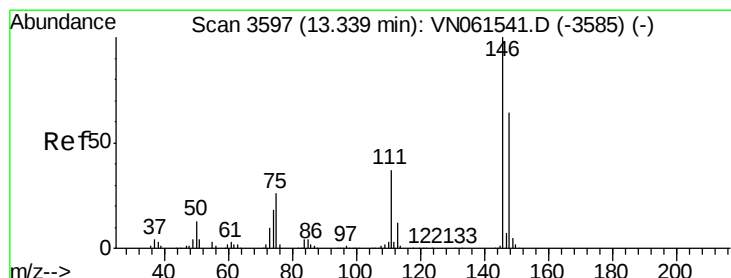
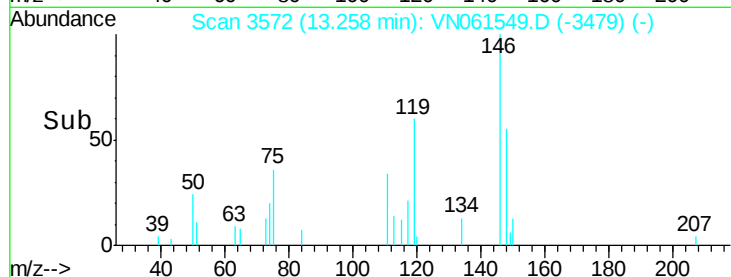
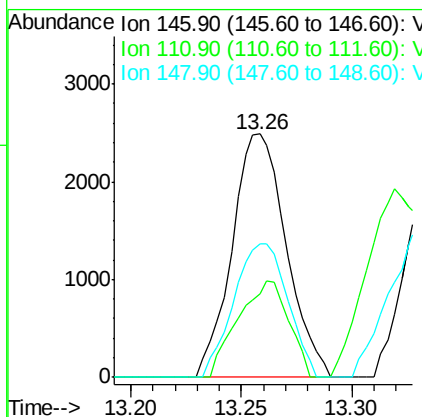
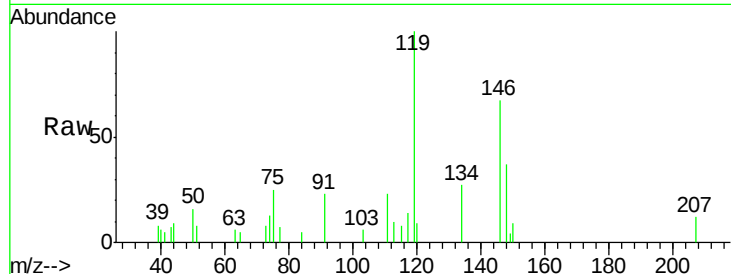
#87
 1,3-Dichlorobenzene
 Concen: 0.628 ug/l
 RT: 13.26 min Scan# 3572
 Delta R.T. -0.00 min
 Lab File: VN061549.D
 Acq: 28 May 2020 23:13

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.8	19.2	57.6
148	54.5	31.7	95.1

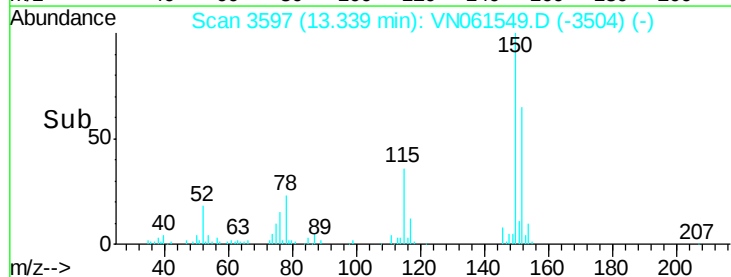
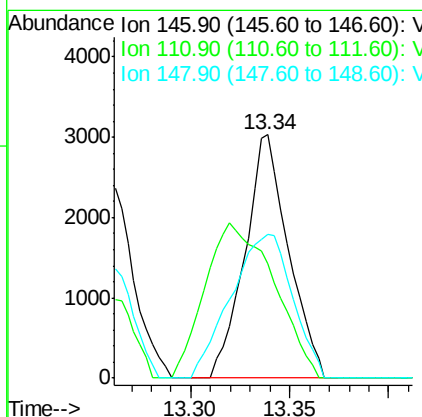
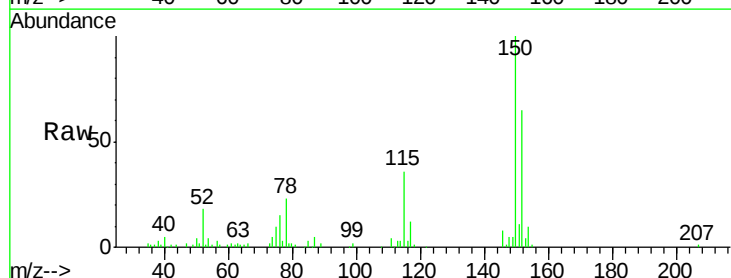
Manual Integrations
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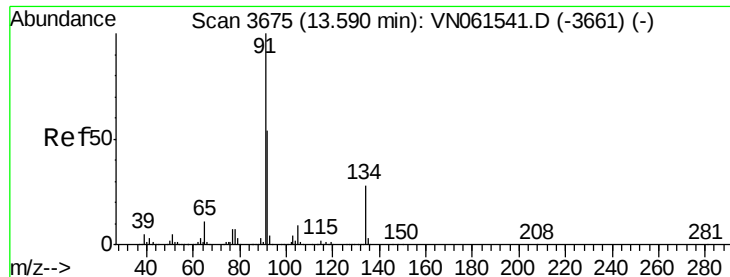
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#88
 1,4-Dichlorobenzene
 Concen: 0.667 ug/l m
 RT: 13.34 min Scan# 3597
 Delta R.T. -0.00 min
 Lab File: VN061549.D
 Acq: 28 May 2020 23:13

Tgt Ion	Ratio	Lower	Upper
146	100		
111	34.0	18.9	56.9
148	50.4	31.8	95.3





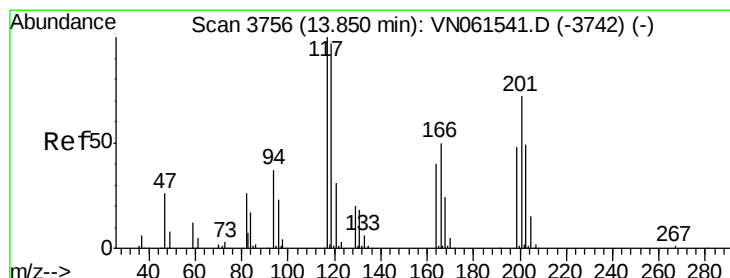
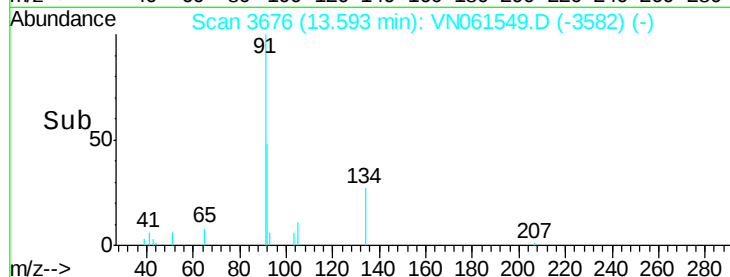
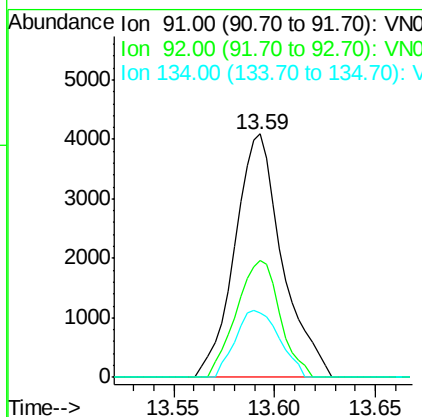
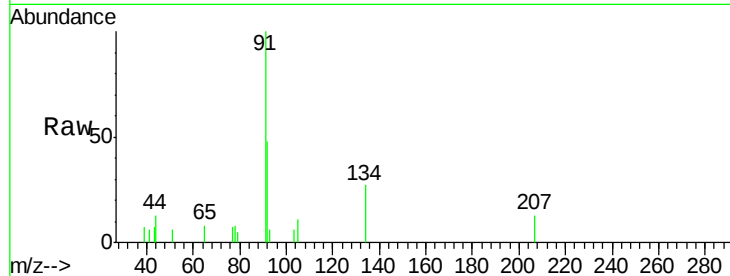
#89
n-Butylbenzene
Concen: 0.613 ug/l
RT: 13.59 min Scan# 3676
Delta R.T. 0.00 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
91	100		
92	44.2	27.2	81.6
134	25.6	14.0	42.0

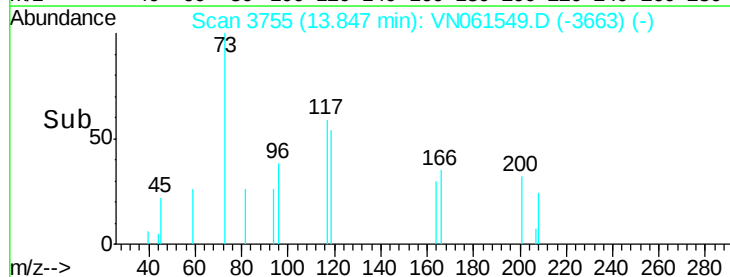
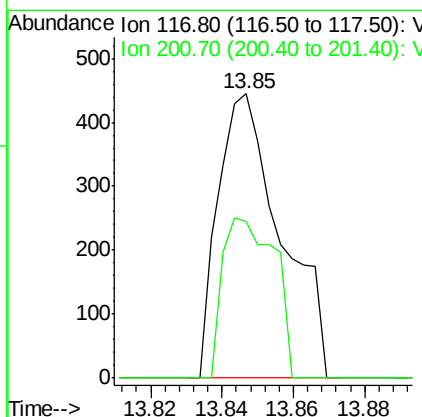
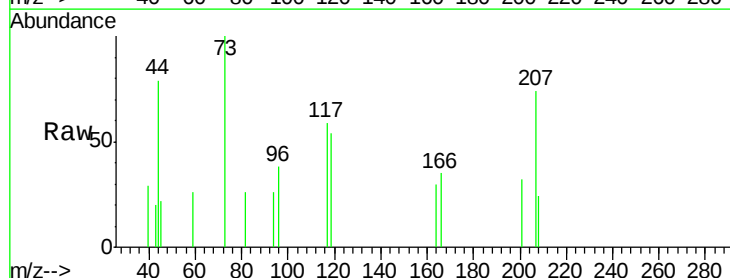
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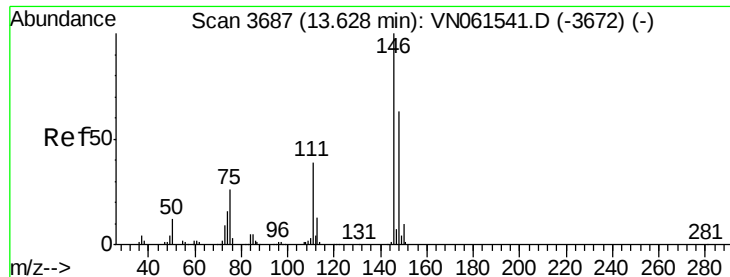
MMDadoda
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#90
Hexachloroethane
Concen: 0.375 ug/l
RT: 13.85 min Scan# 3755
Delta R.T. -0.00 min
Lab File: VN061549.D
Acq: 28 May 2020 23:13

Tgt Ion	Ratio	Lower	Upper
117	100		
201	46.5	36.7	110.1





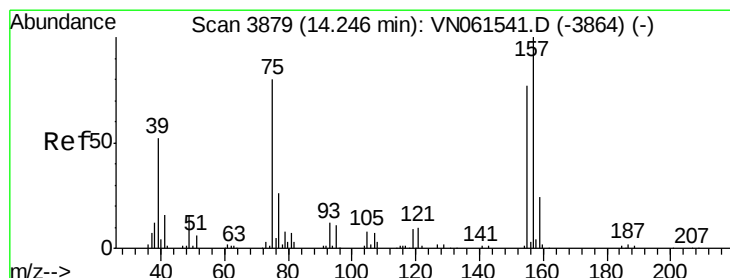
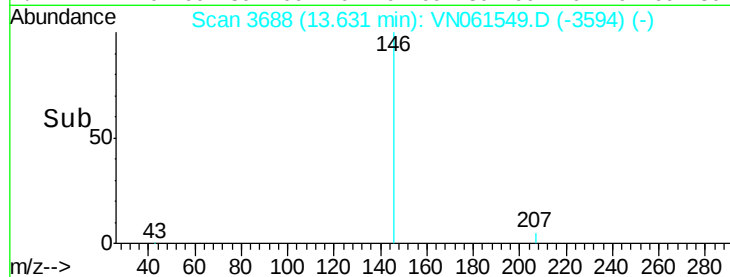
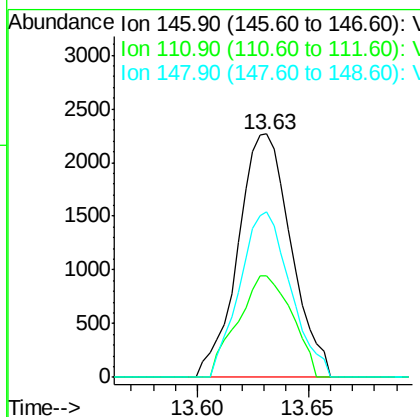
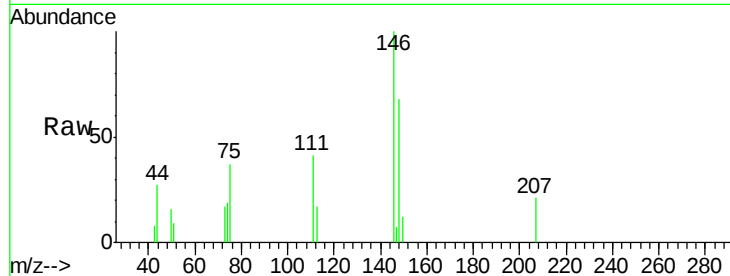
#91
 1,2-Dichlorobenzene
 Concen: 0.586 ug/l
 RT: 13.63 min Scan# 3688
 Delta R.T. 0.00 min
 Lab File: VN061549.D
 Acq: 28 May 2020 23:13

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.3	20.1	60.2
148	65.0	31.9	95.5

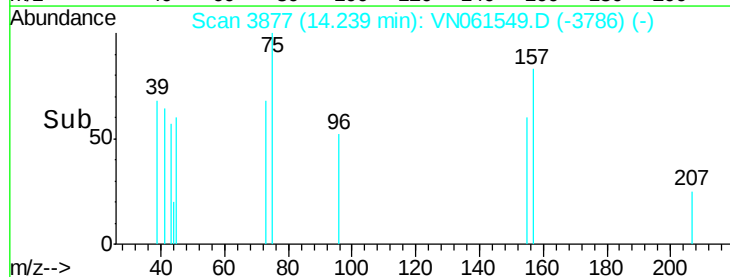
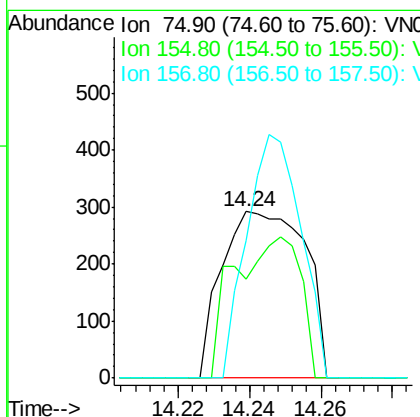
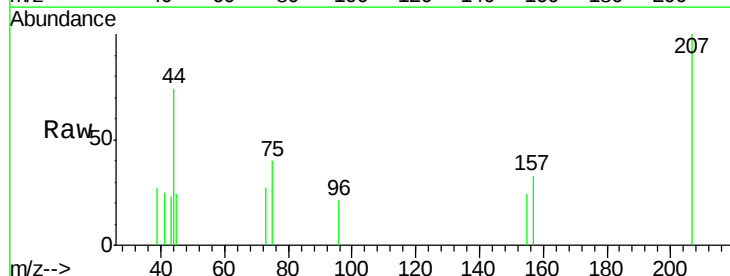
Manual Integrations
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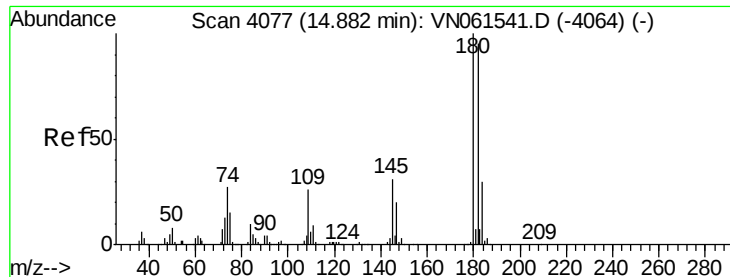
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.553 ug/l
 RT: 14.24 min Scan# 3877
 Delta R.T. -0.01 min
 Lab File: VN061549.D
 Acq: 28 May 2020 23:13

Tgt Ion	Ratio	Lower	Upper
75	100		
155	67.6	47.1	141.4
157	94.9	60.3	180.8





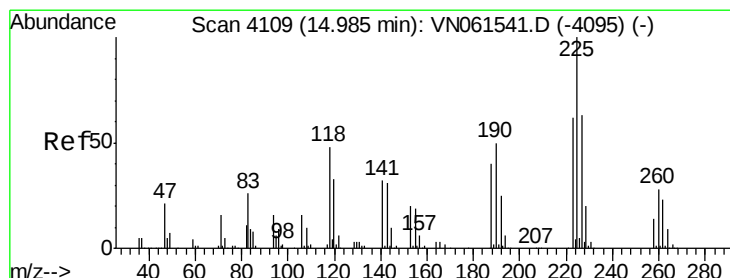
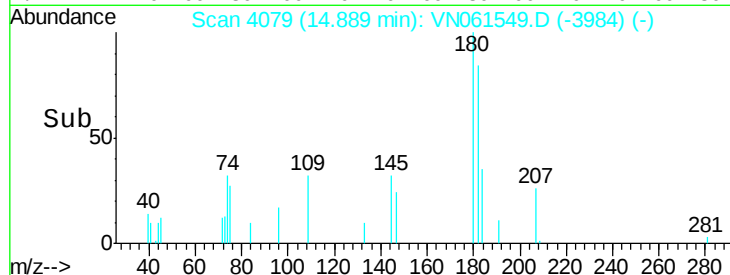
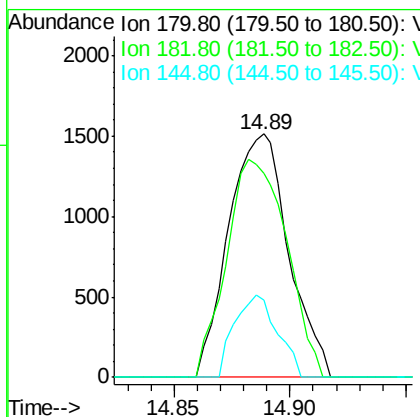
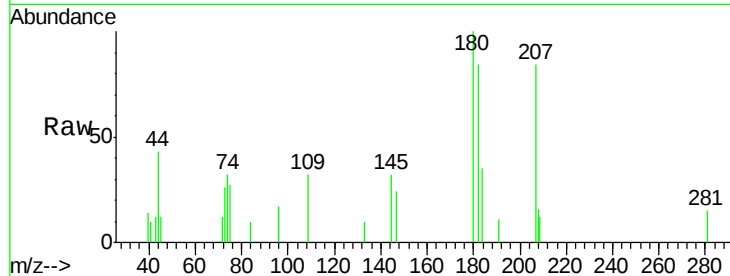
#93
 1,2,4-Trichlorobenzene
 Concen: 0.722 ug/l
 RT: 14.89 min Scan# 4079
 Delta R.T. 0.01 min
 Lab File: VN061549.D
 Acq: 28 May 2020 23:13

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
180	100		
182	89.6	47.8	143.3
145	24.0	15.5	46.5

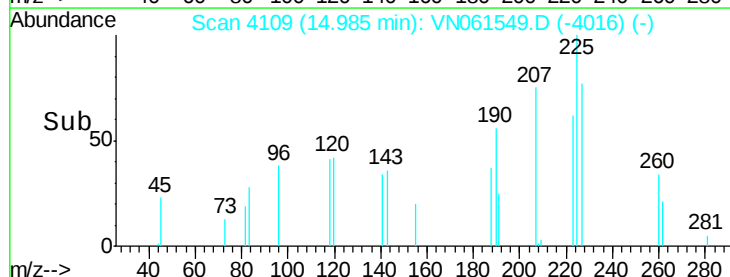
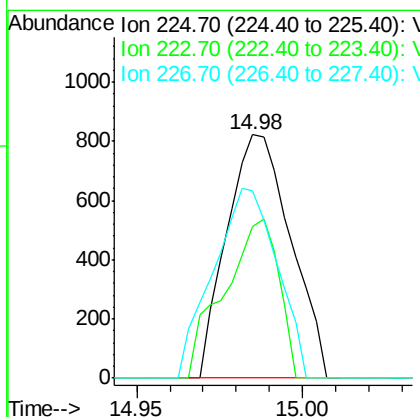
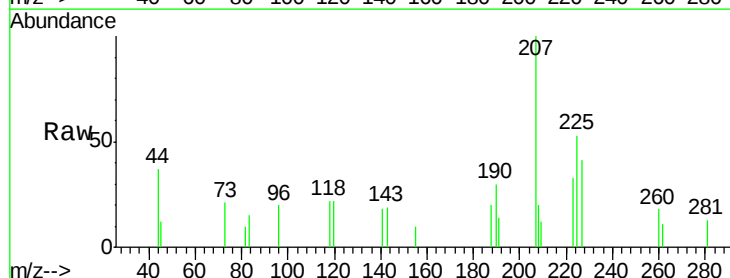
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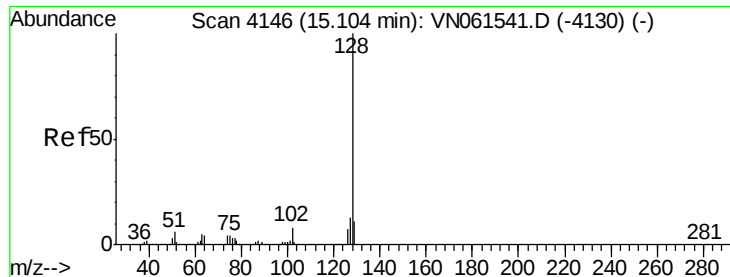
MMDadoda
 5/29/2020 5:50:28 PM



#94
 Hexachlorobutadiene
 Concen: 0.686 ug/l
 RT: 14.98 min Scan# 4109
 Delta R.T. -0.00 min
 Lab File: VN061549.D
 Acq: 28 May 2020 23:13

Tgt Ion	Ratio	Lower	Upper
225	100		
223	55.7	31.9	95.5
227	77.5	31.9	95.9





#95

Naphthalene

Concen: 0.706 ug/l

RT: 15.11 min Scan# 4148

Delta R.T. 0.01 min

Lab File: VN061549.D

Acq: 28 May 2020 23:13

Instrument :

MSVOA_N

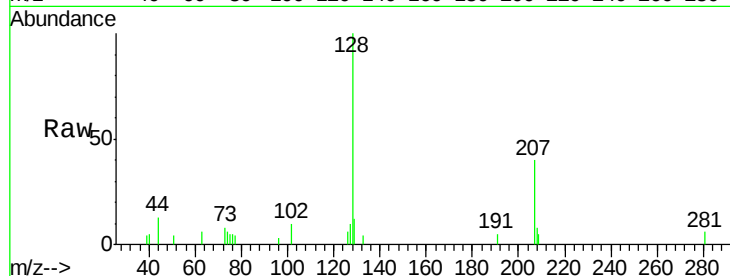
ClientSampleId :

LOD-MDL-WATER-01-QT2-2020

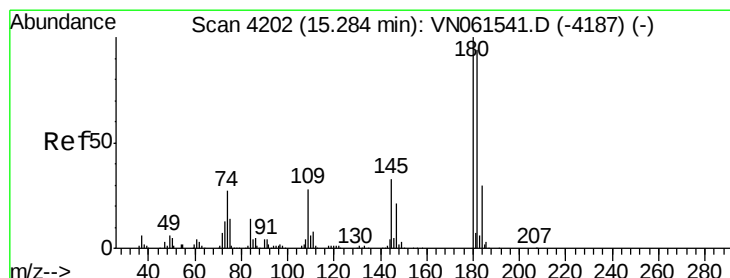
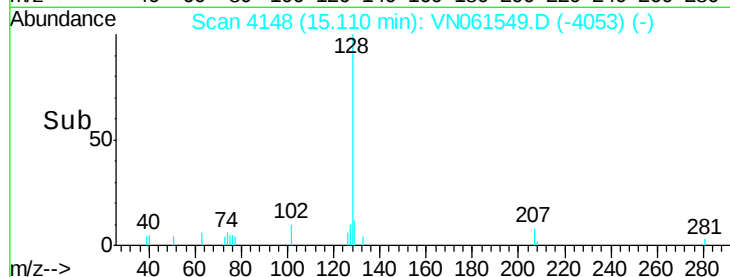
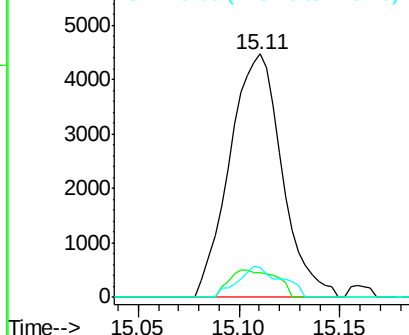
Tot Ion:	128	Resp:	8109
Ion	Ratio	Lower	Upper
128	100		
127	10.2	10.0	15.0
129	10.6	8.5	12.7

Manual Integrations
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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: 0.673 ug/l

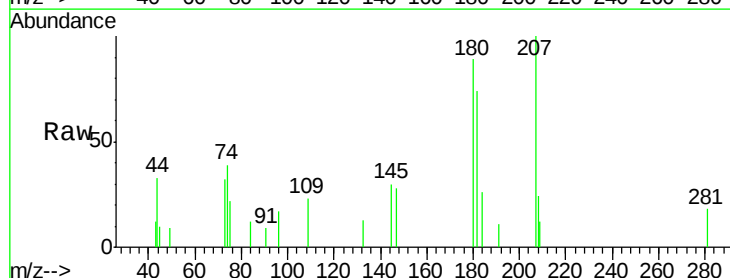
RT: 15.29 min Scan# 4203

Delta R.T. 0.00 min

Lab File: VN061549.D

Acq: 28 May 2020 23:13

Tgt Ion:	180	Resp:	2497
Ion	Ratio	Lower	Upper
180	100		
182	101.1	47.1	141.3
145	32.7	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

