

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071020\
 Data File : VN062487.D
 Acq On : 10 Jul 2020 12:42
 Operator : JC/MD
 Sample : L3216-09 .5PPB MDL
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT3-2020DL

Manual Integrations
 APPROVED

MMDadoda
 7/13/2020 11:19:07 AM

Quant Time: Jul 13 01:27:54 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N070820W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 11 03:18:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	194136	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	335637	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	302748	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	115448	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	161445	54.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.14%	
35) Dibromofluoromethane	7.55	113	115725	55.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.56%	
50) Toluene-d8	10.06	98	436486	53.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.58%	
62) 4-Bromofluorobenzene	12.38	95	144402	48.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.50%	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.83	85	1102	0.557	ug/l	95
3) Chloromethane	2.03	50	2045	0.645	ug/l	98
4) Vinyl Chloride	2.16	62	1554	0.598	ug/l	92
5) Bromomethane	2.54	94	973	0.697	ug/l	85
6) Chloroethane	2.67	64	878	0.580	ug/l #	70
7) Trichlorofluoromethane	2.98	101	2173	0.658	ug/l	95
8) Diethyl Ether	3.37	74	790	0.535	ug/l	71
9) 1,1,2-Trichlorotrifluoroet	3.72	101	1128m	0.576	ug/l	
10) Methyl Iodide	3.91	142	849	0.329	ug/l #	39
11) Tert butyl alcohol	4.74	59	1159m	2.340	ug/l	
12) 1,1-Dichloroethene	3.70	96	1295	0.650	ug/l	81
13) Acrolein	3.58	56	953m	2.667	ug/l	
14) Allyl chloride	4.28	41	2817	0.601	ug/l #	89
15) Acrylonitrile	4.95	53	3446m	2.653	ug/l	
16) Acetone	3.78	43	4288	3.382	ug/l	92
17) Carbon Disulfide	4.01	76	4551	0.729	ug/l #	95
18) Methyl Acetate	4.28	43	3100	0.980	ug/l #	61
19) Methyl tert-butyl Ether	5.00	73	4358	0.577	ug/l	97
20) Methylene Chloride	4.49	84	2461m	0.908	ug/l	
21) trans-1,2-Dichloroethene	5.00	96	1439	0.667	ug/l #	61
22) Diisopropyl ether	5.91	45	5376	0.581	ug/l #	83
23) Vinyl Acetate	5.85	43	19422	2.532	ug/l	99
24) 1,1-Dichloroethane	5.80	63	2649	0.554	ug/l #	85
25) 2-Butanone	6.81	43	5018	2.710	ug/l #	81
26) 2,2-Dichloropropane	6.79	77	2572m	0.701	ug/l	
27) cis-1,2-Dichloroethene	6.79	96	1497	0.599	ug/l	79
28) Bromochloromethane	7.15	49	965	0.371	ug/l #	86
29) Tetrahydrofuran	7.17	42	3515	2.820	ug/l #	68
30) Chloroform	7.33	83	2579m	0.597	ug/l	
31) Cyclohexane	7.62	56	7221	1.592	ug/l #	31
32) 1,1,1-Trichloroethane	7.53	97	2230	0.621	ug/l #	52
36) 1,1-Dichloropropene	7.76	75	2063	0.610	ug/l #	91
37) Ethyl Acetate	6.90	43	2712	0.686	ug/l #	70
38) Carbon Tetrachloride	7.74	117	2009	0.661	ug/l	94

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 Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	9.05	83	1866	0.517	ug/l #	84
40) Benzene	8.00	78	5983	0.600	ug/l	98
41) Methacrylonitrile	7.14	41	986m	0.597	ug/l	
42) 1,2-Dichloroethane	8.09	62	2466	0.676	ug/l #	78
43) Isopropyl Acetate	8.13	43	3145	0.504	ug/l #	84
44) Trichloroethene	8.81	130	1153	0.521	ug/l	78
45) 1,2-Dichloropropane	9.08	63	1509	0.522	ug/l	97
46) Dibromomethane	9.18	93	753	0.461	ug/l	98
47) Bromodichloromethane	9.37	83	2085	0.597	ug/l #	88
48) Methyl methacrylate	9.17	41	1369	0.447	ug/l #	85
49) 1,4-Dioxane	9.17	88	393	8.812	ug/l #	83
51) 4-Methyl-2-Pentanone	9.95	43	10132	2.716	ug/l	99
52) Toluene	10.13	92	3505	0.609	ug/l	96
53) t-1,3-Dichloropropene	10.36	75	1798	0.460	ug/l #	81
54) cis-1,3-Dichloropropene	9.81	75	2253	0.522	ug/l #	89
55) 1,1,2-Trichloroethane	10.53	97	1440	0.636	ug/l	92
56) Ethyl methacrylate	10.41	69	1676	0.443	ug/l #	81
57) 1,3-Dichloropropane	10.68	76	2391	0.572	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.67	63	2243	1.670	ug/l	91
59) 2-Hexanone	10.73	43	6921	2.555	ug/l	90
60) Dibromochloromethane	10.88	129	1414	0.576	ug/l	82
61) 1,2-Dibromoethane	10.98	107	1041	0.455	ug/l	90
64) Tetrachloroethene	10.60	164	1034	0.576	ug/l #	88
65) Chlorobenzene	11.40	112	3388	0.576	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.48	131	1279	0.589	ug/l #	65
67) Ethyl Benzene	11.48	91	6261	0.567	ug/l	90
68) m/p-Xylenes	11.60	106	4212	1.077	ug/l	98
69) o-Xylene	11.92	106	2187	0.574	ug/l	74
70) Styrene	11.94	104	3064	0.487	ug/l	97
71) Bromoform	12.10	173	787	0.495	ug/l #	29
73) Isopropylbenzene	12.22	105	4971	0.556	ug/l	100
74) N-amyl acetate	12.05	43	2278	0.524	ug/l #	68
75) 1,1,2,2-Tetrachloroethane	12.48	83	1984	0.660	ug/l #	89
76) 1,2,3-Trichloropropane	12.53	75	1676m	0.592	ug/l	
77) Bromobenzene	12.50	156	1429	0.704	ug/l	89
78) n-propylbenzene	12.57	91	6277	0.602	ug/l	98
79) 2-Chlorotoluene	12.65	91	3741	0.591	ug/l	97
80) 1,3,5-Trimethylbenzene	12.71	105	4226	0.577	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.28	75	457m	0.432	ug/l	
82) 4-Chlorotoluene	12.75	91	3602m	0.560	ug/l	
83) tert-Butylbenzene	12.97	119	3446	0.554	ug/l	97
84) 1,2,4-Trimethylbenzene	13.01	105	3780	0.519	ug/l	96
85) sec-Butylbenzene	13.15	105	4261	0.517	ug/l	94
86) p-Isopropyltoluene	13.26	119	3455	0.486	ug/l	98
87) 1,3-Dichlorobenzene	13.26	146	2130	0.608	ug/l	87
88) 1,4-Dichlorobenzene	13.34	146	2146m	0.595	ug/l	
89) n-Butylbenzene	13.59	91	3173	0.506	ug/l	92
90) Hexachloroethane	13.85	117	901	0.644	ug/l	79
91) 1,2-Dichlorobenzene	13.63	146	1809	0.534	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	14.25	75	171	0.312	ug/l #	43

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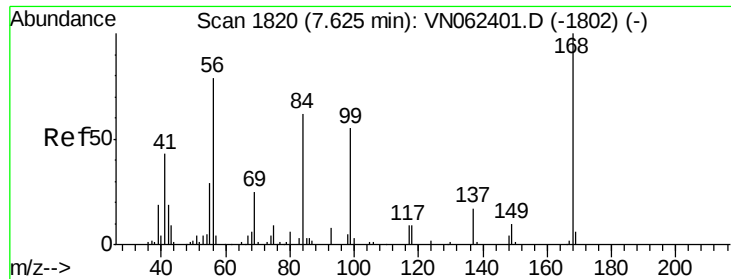
Manual Integrations
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Quant Title : SW846 8260
QLast Update : Sat Jul 11 03:18:07 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.88	180	593	0.388	ug/l #	79
94) Hexachlorobutadiene	14.98	225	585	0.650	ug/l	72
95) Naphthalene	15.11	128	2247	0.522	ug/l #	77
96) 1,2,3-Trichlorobenzene	15.28	180	740	0.466	ug/l #	73

(#) = 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

Lab File: VN062487.D

Acq: 10 Jul 2020 12:42

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2020DL

Tot Ion:168 Resp: 194136

Ion Ratio Lower Upper

168 100

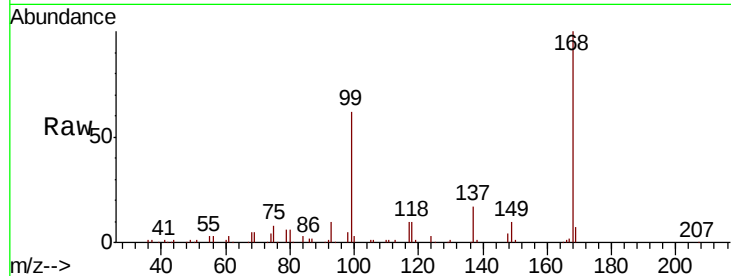
99 62.1 48.8 73.2

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

80000

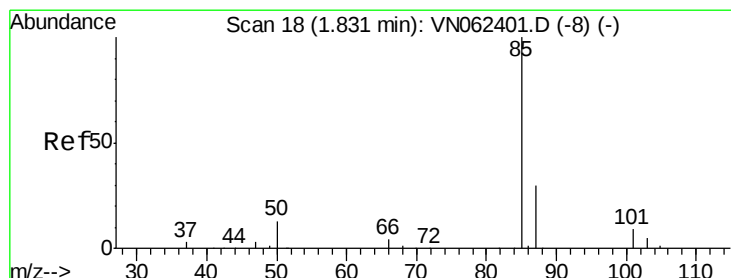
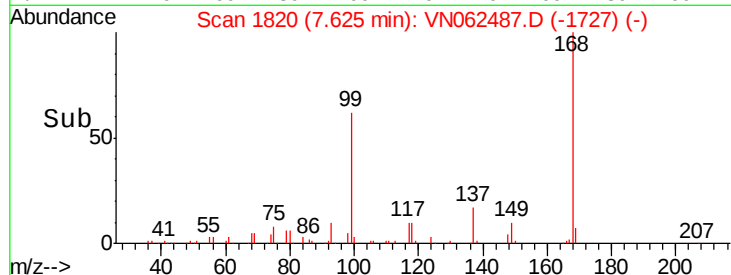
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#2

Dichlorodifluoromethane

Concen: 0.557 ug/l

RT: 1.83 min Scan# 18

Delta R.T. 0.00 min

Lab File: VN062487.D

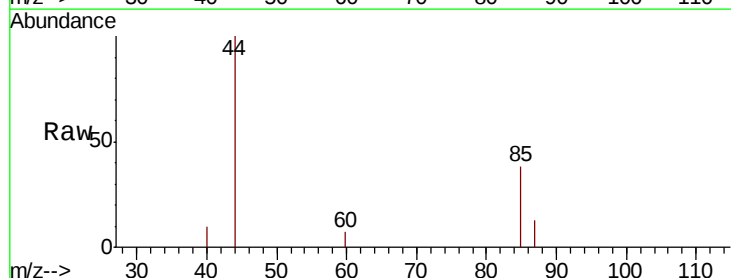
Acq: 10 Jul 2020 12:42

Tgt Ion: 85 Resp: 1102

Ion Ratio Lower Upper

85 100

87 33.1 15.2 45.5



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.83

1000

800

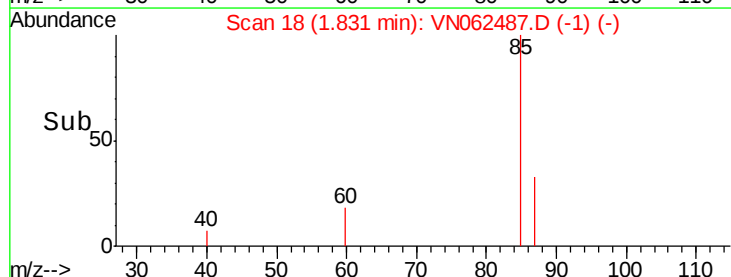
600

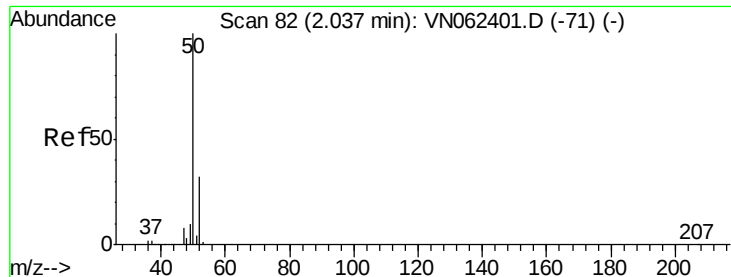
400

200

0

Time--> 1.80 1.82 1.84 1.86





#3

Chloromethane

Concen: 0.645 ug/l

RT: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN062487.D

Acq: 10 Jul 2020 12:42

Instrument :

MSVOA_N

ClientSampleId :

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Tot Ion: 50 Resp: 2045

Ion Ratio Lower Upper

50 100

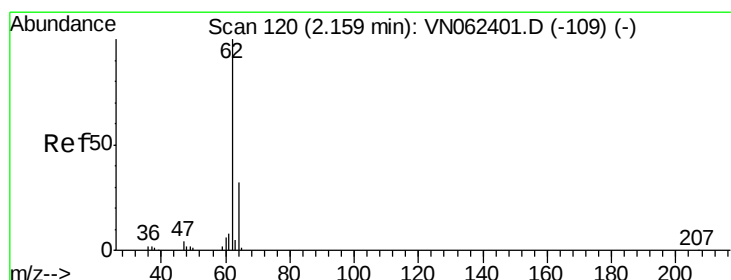
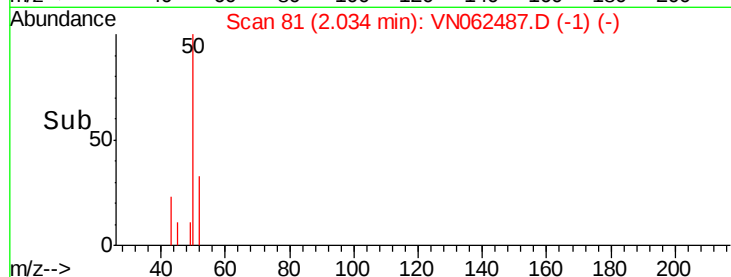
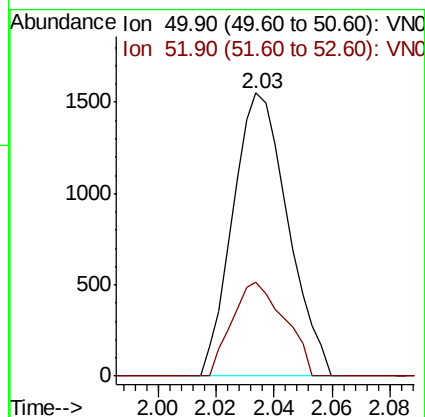
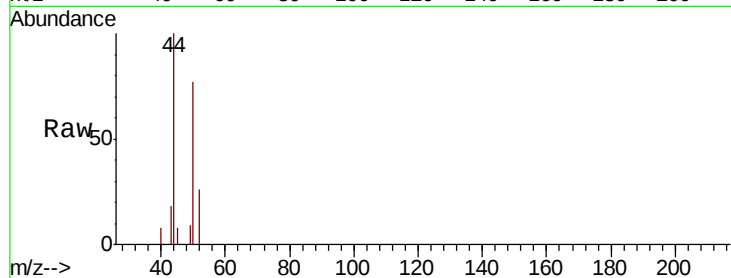
52 33.3 25.5 38.3

Manual Integrations

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#4

Vinyl Chloride

Concen: 0.598 ug/l

RT: 2.16 min Scan# 120

Delta R.T. 0.00 min

Lab File: VN062487.D

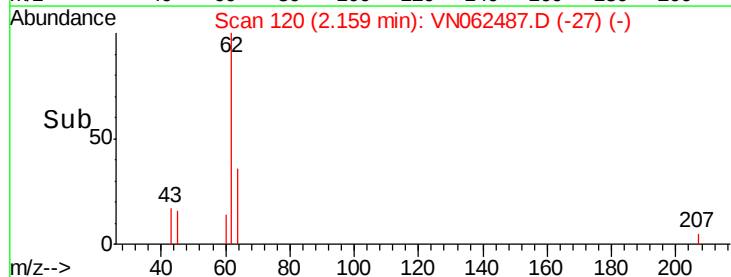
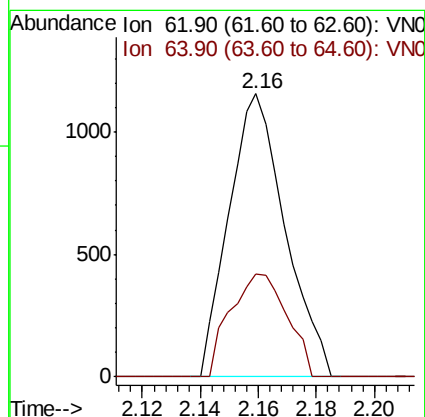
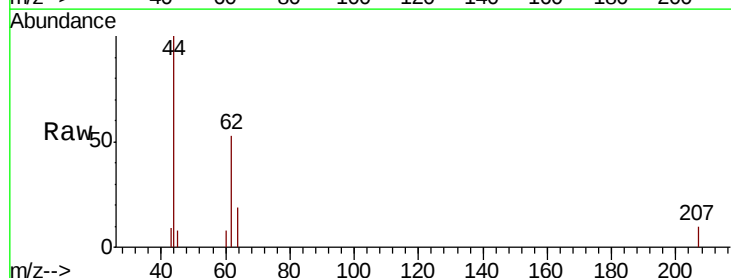
Acq: 10 Jul 2020 12:42

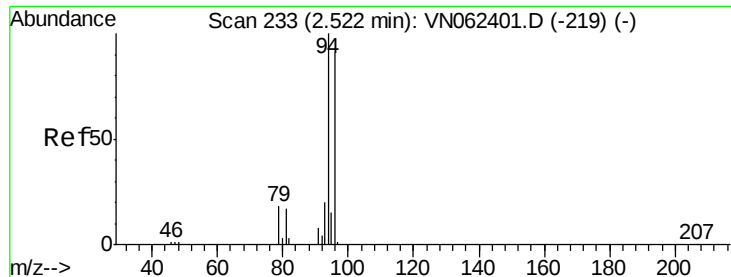
Tgt Ion: 62 Resp: 1554

Ion Ratio Lower Upper

62 100

64 36.4 25.7 38.5





#5

Bromomethane

Concen: 0.697 ug/l

RT: 2.54 min Scan# 237

Delta R.T. 0.01 min

Lab File: VN062487.D

Acq: 10 Jul 2020 12:42

Instrument :

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ClientSampleId :

MDL-WATER-03-QT3-2020DL

Tot Ion: 94 Resp: 973

Ion Ratio Lower Upper

94 100

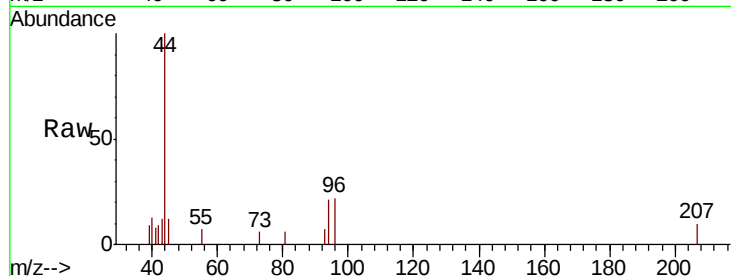
96 106.0 73.2 109.8

Manual Integrations

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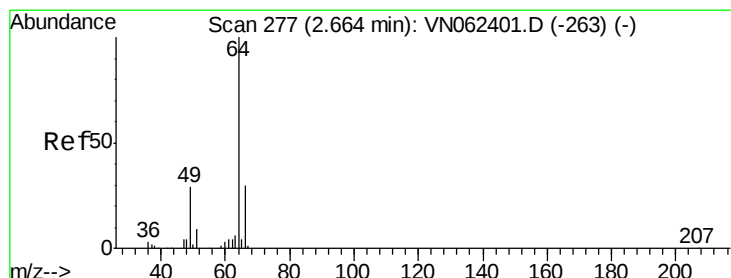
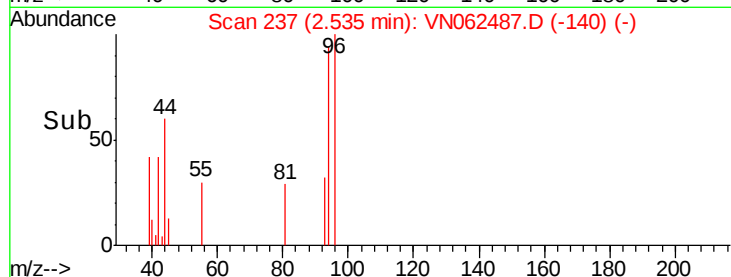
Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.54

2.55

Time-->



#6

Chloroethane

Concen: 0.580 ug/l

RT: 2.67 min Scan# 279

Delta R.T. 0.01 min

Lab File: VN062487.D

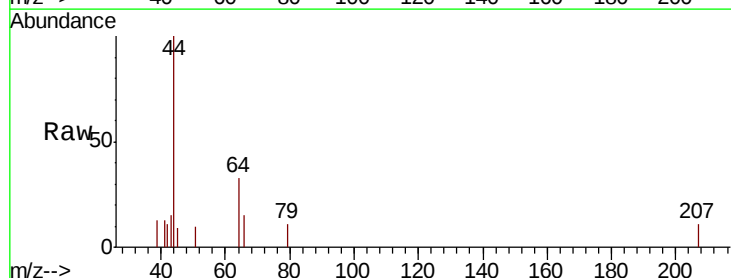
Acq: 10 Jul 2020 12:42

Tgt Ion: 64 Resp: 878

Ion Ratio Lower Upper

64 100

66 46.4 24.2 36.2#



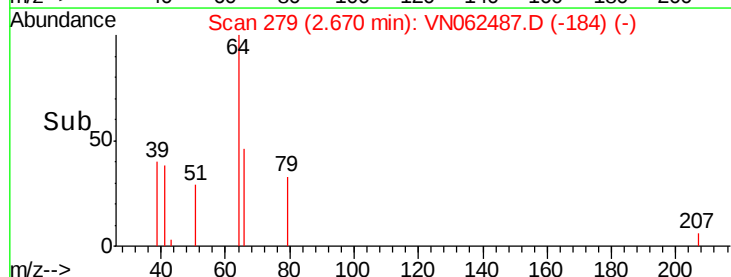
Abundance Ion 63.90 (63.60 to 64.60): VN0

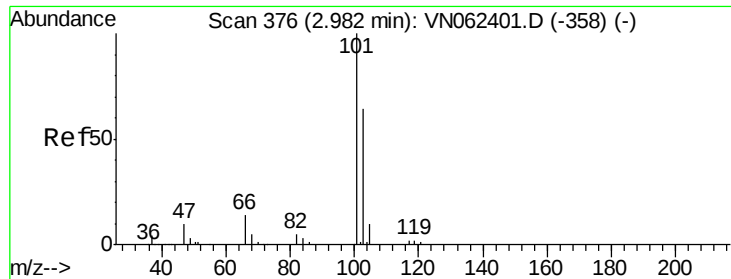
Ion 65.90 (65.60 to 66.60): VN0

2.67

2.68

Time-->





#7

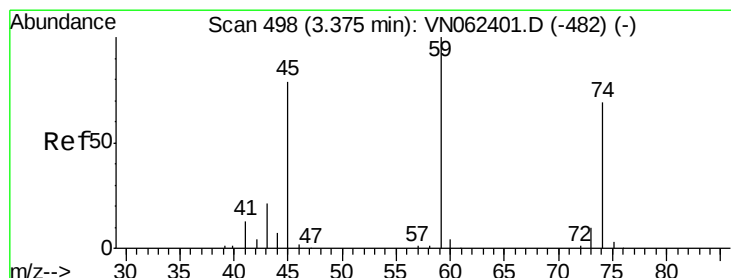
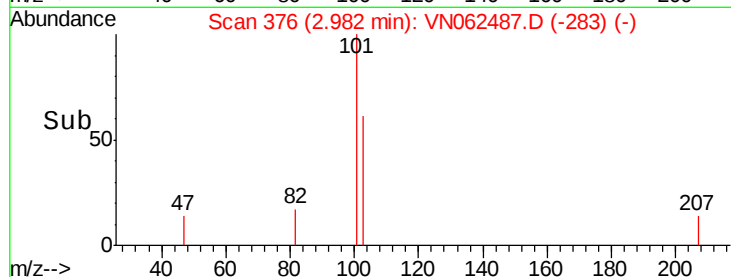
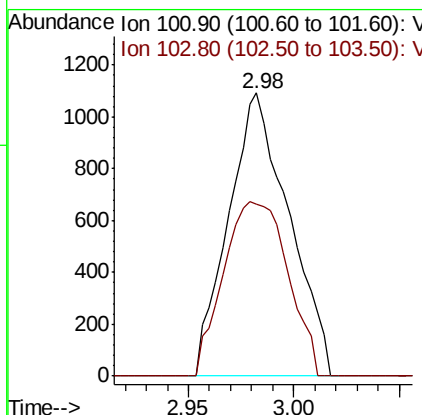
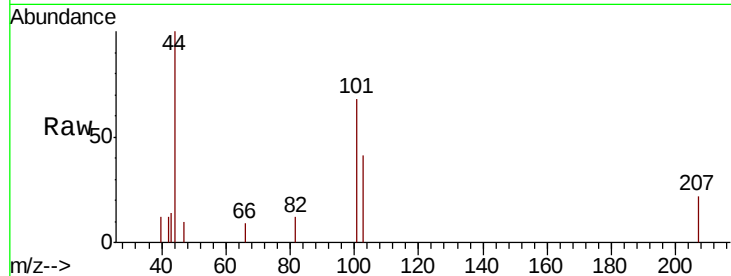
Trichlorofluoromethane
Concen: 0.658 ug/l
RT: 2.98 min Scan# 376
Delta R.T. 0.00 min
Lab File: VN062487.D
Acq: 10 Jul 2020 12:42

Instrument :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	60.7	51.6	77.4

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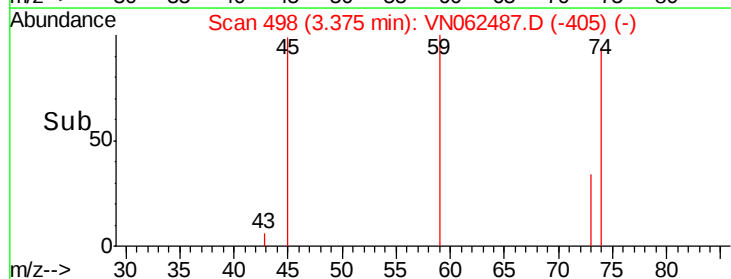
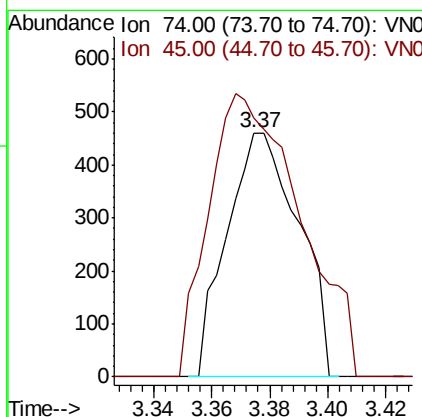
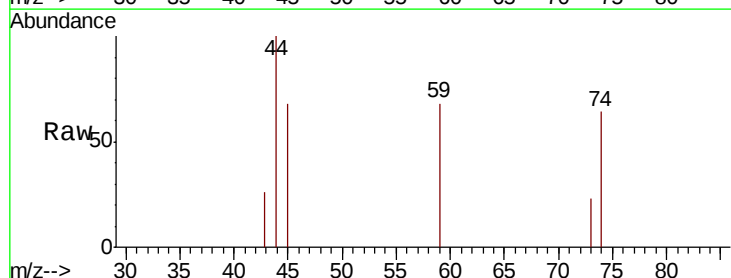
MMDadoda
7/13/2020 11:19:07 AM

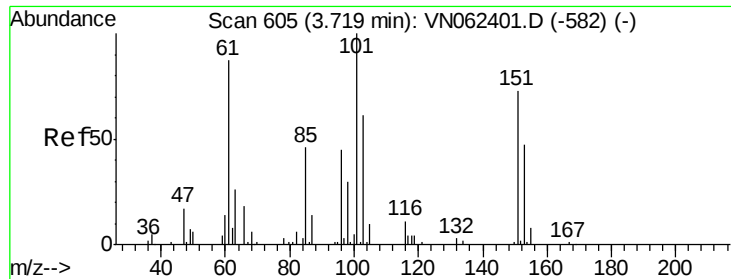


#8

Diethyl Ether
Concen: 0.535 ug/l
RT: 3.37 min Scan# 498
Delta R.T. 0.00 min
Lab File: VN062487.D
Acq: 10 Jul 2020 12:42

Tgt Ion	Ratio	Lower	Upper
74	100		
45	148.1	58.5	175.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.576 ug/l m

RT: 3.72 min Scan# 605

Delta R.T. 0.00 min

Lab File: VN062487.D

Acq: 10 Jul 2020 12:42

Instrument :

MSVOA_N

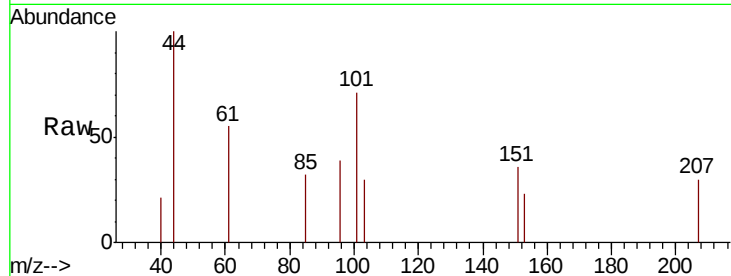
ClientSampleId :

MDL-WATER-03-QT3-2020DL

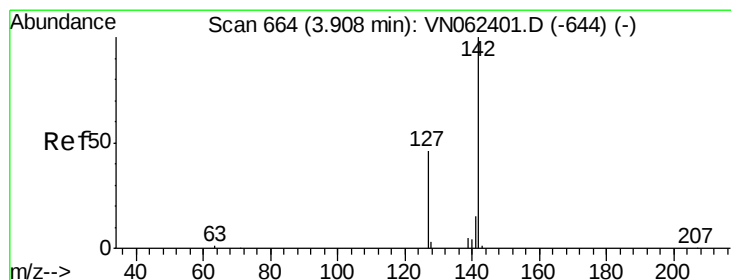
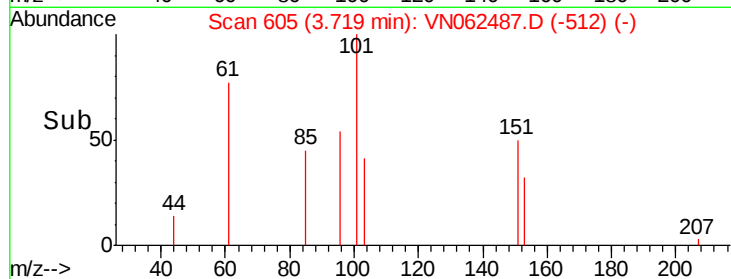
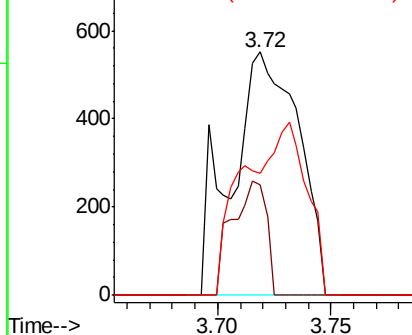
Tot Ion:	101	Resp:	1128
Ion Ratio	Lower	Upper	
101	100		
85	23.9	36.7	55.1#
151	26.3	58.3	87.5#

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



#10

Methyl Iodide

Concen: 0.329 ug/l

RT: 3.91 min Scan# 664

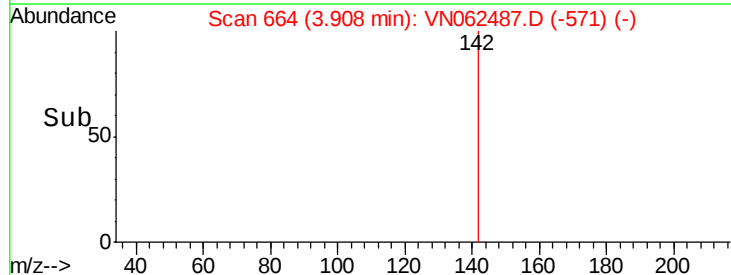
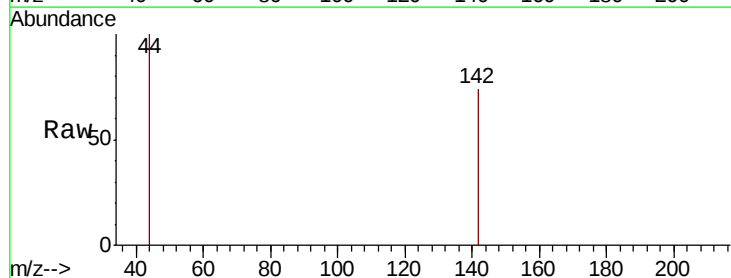
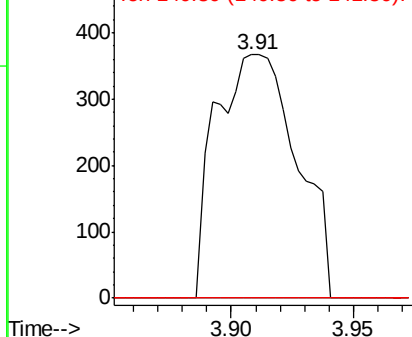
Delta R.T. 0.00 min

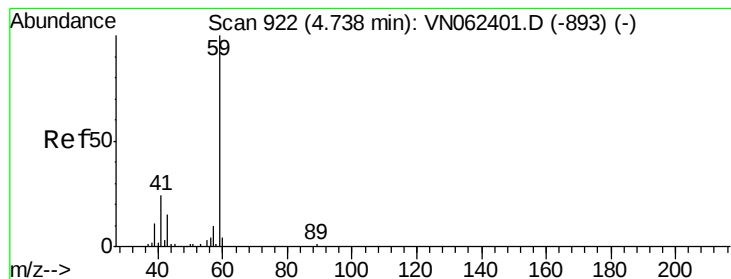
Lab File: VN062487.D

Acq: 10 Jul 2020 12:42

Tgt Ion:	142	Resp:	849
Ion Ratio	Lower	Upper	
142	100		
127	0.0	36.1	54.1#
141	0.0	11.4	17.0#

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





#11

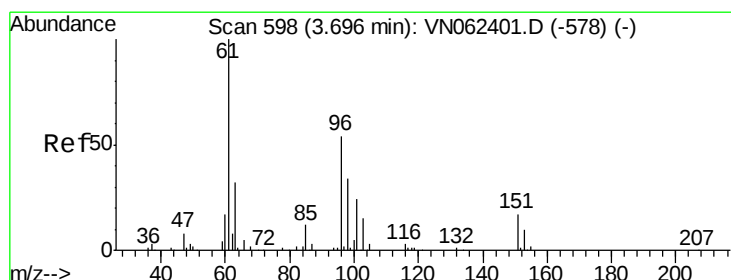
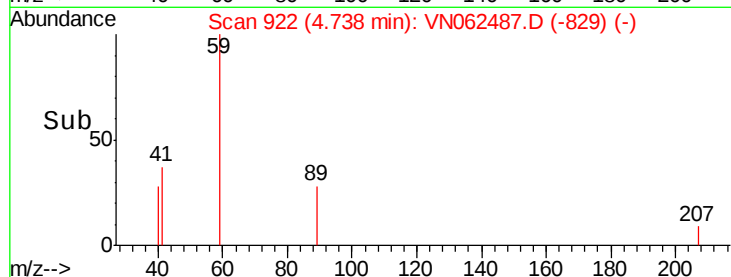
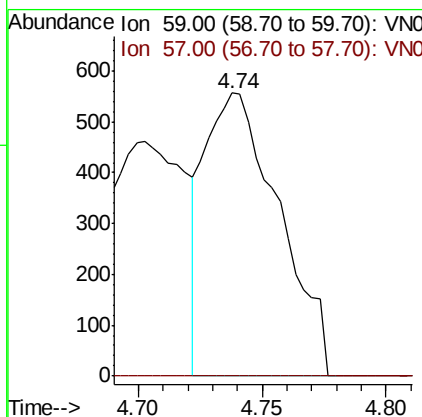
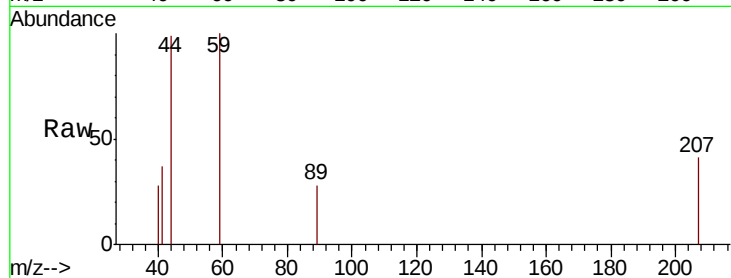
Tert butyl alcohol
 Concen: 2.340 ug/l m
 RT: 4.74 min Scan# 922
 Delta R.T. 0.00 min
 Lab File: VN062487.D
 Acq: 10 Jul 2020 12:42

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT3-2020DL

Tot Ion: 59 Resp: 1159
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.6#

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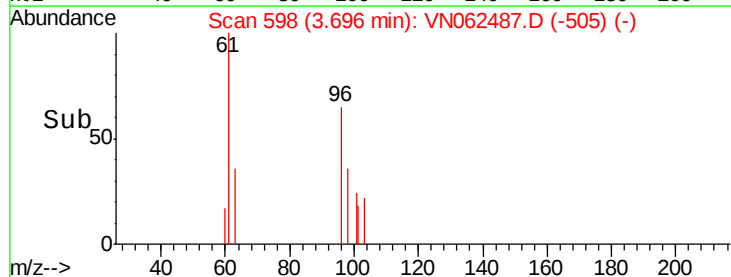
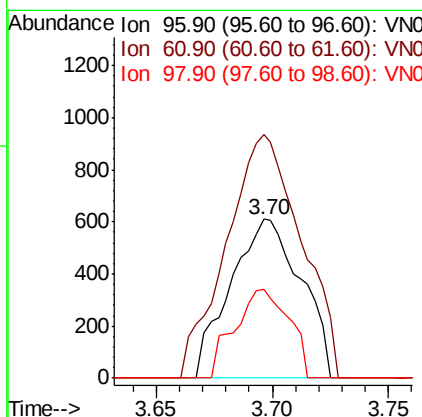
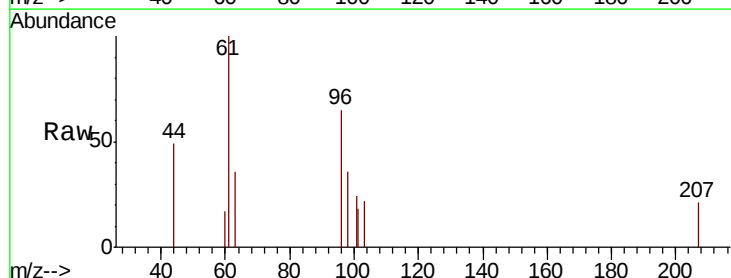
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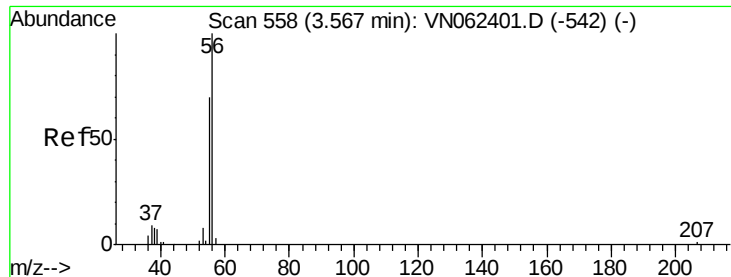


#12

1,1-Dichloroethene
 Concen: 0.650 ug/l
 RT: 3.70 min Scan# 598
 Delta R.T. 0.00 min
 Lab File: VN062487.D
 Acq: 10 Jul 2020 12:42

Tgt Ion: 96 Resp: 1295
 Ion Ratio Lower Upper
 96 100
 61 153.0 147.4 221.0
 98 55.8 50.4 75.6





#13

Acrolein

Concen: 2.667 ug/l m

RT: 3.58 min Scan# 562

Delta R.T. 0.01 min

Lab File: VN062487.D

Acq: 10 Jul 2020 12:42

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2020DL

Tot Ion: 56 Resp: 953

Ion Ratio Lower Upper

56 100

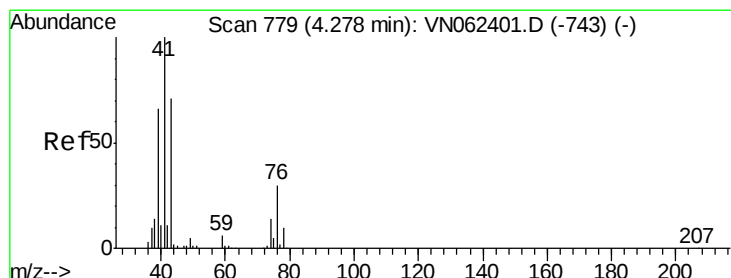
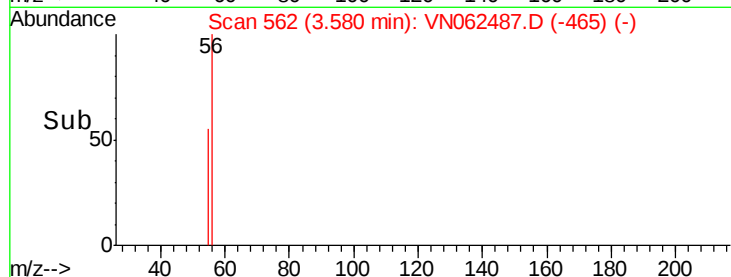
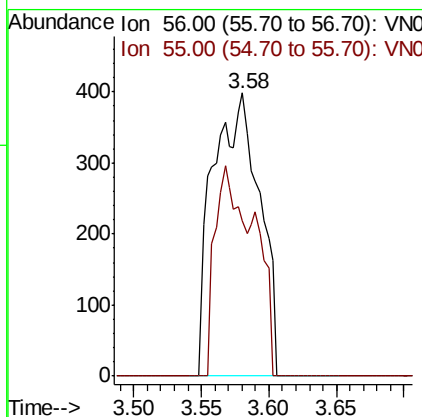
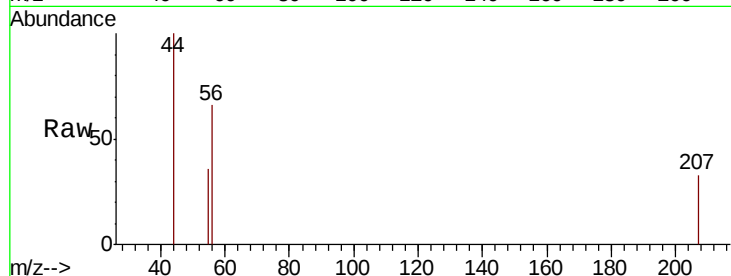
55 42.7 57.2 85.8#

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#14

Allyl chloride

Concen: 0.601 ug/l

RT: 4.28 min Scan# 781

Delta R.T. 0.01 min

Lab File: VN062487.D

Acq: 10 Jul 2020 12:42

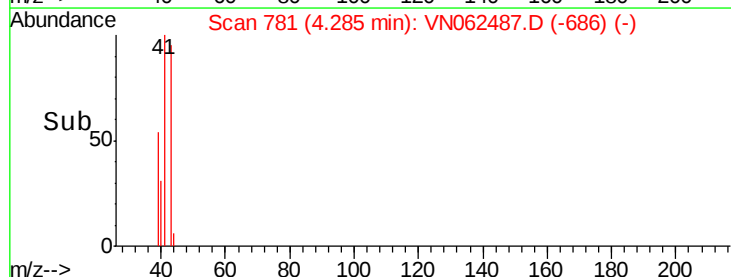
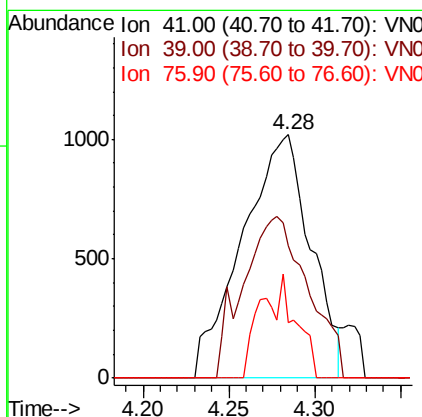
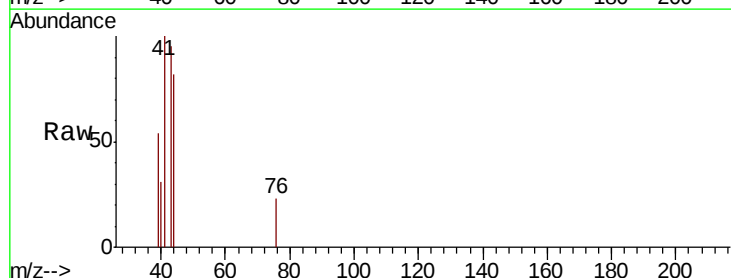
Tgt Ion: 41 Resp: 2817

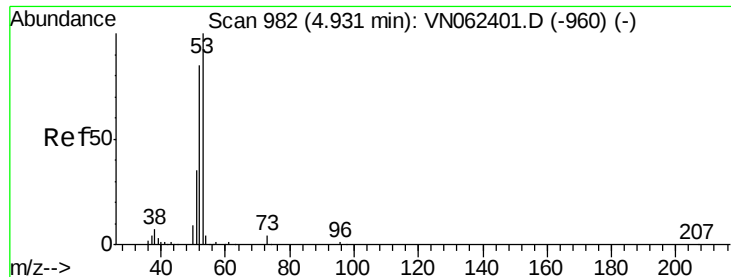
Ion Ratio Lower Upper

41 100

39 62.9 49.6 74.4

76 11.3 22.2 33.4#





#15

Acrylonitrile

Concen: 2.653 ug/l m

RT: 4.95 min Scan# 987

Delta R.T. 0.02 min

Lab File: VN062487.D

Acq: 10 Jul 2020 12:42

Instrument :

MSVOA_N

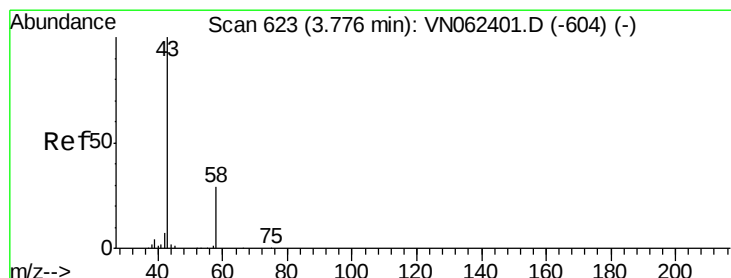
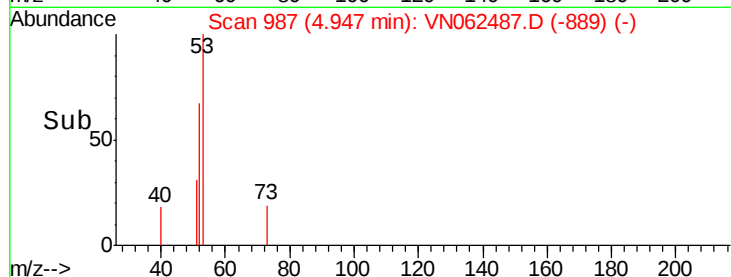
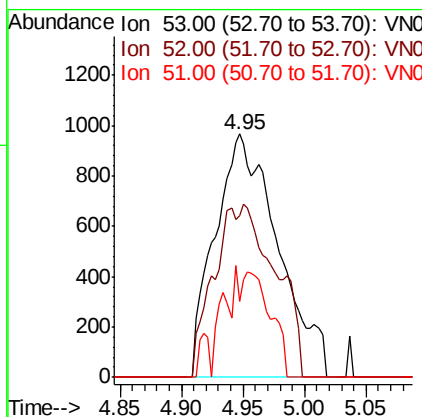
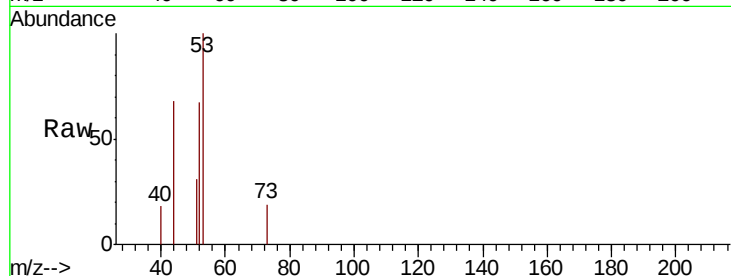
ClientSampleId :

MDL-WATER-03-QT3-2020DL

Tot Ion:	53	Resp:	3446
Ion	Ratio	Lower	Upper
53	100		
52	26.7	66.2	99.4#
51	23.5	28.7	43.1#

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#16

Acetone

Concen: 3.382 ug/l

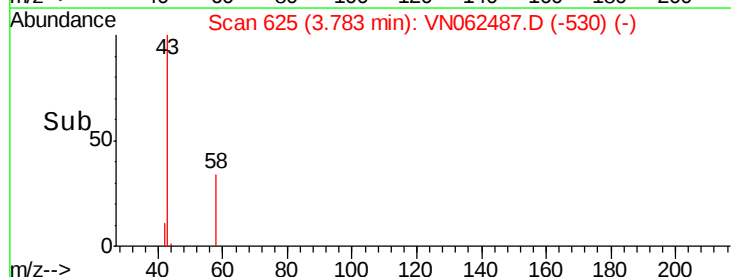
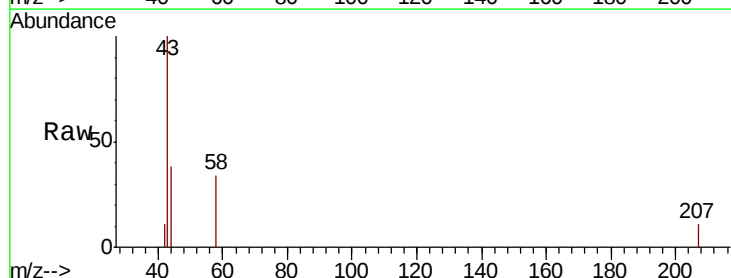
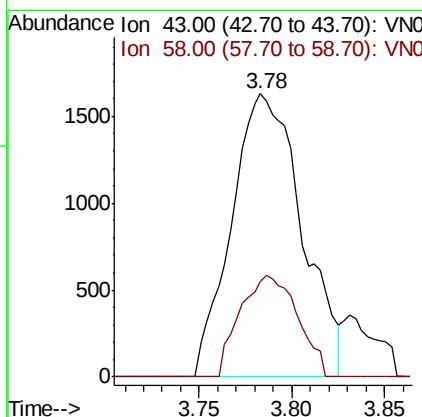
RT: 3.78 min Scan# 625

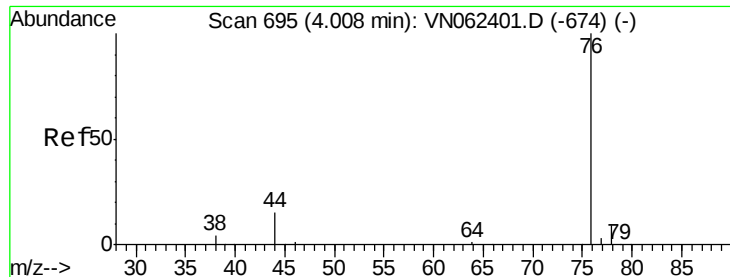
Delta R.T. 0.01 min

Lab File: VN062487.D

Acq: 10 Jul 2020 12:42

Tgt Ion:	43	Resp:	4288
Ion	Ratio	Lower	Upper
43	100		
58	33.7	23.5	35.3





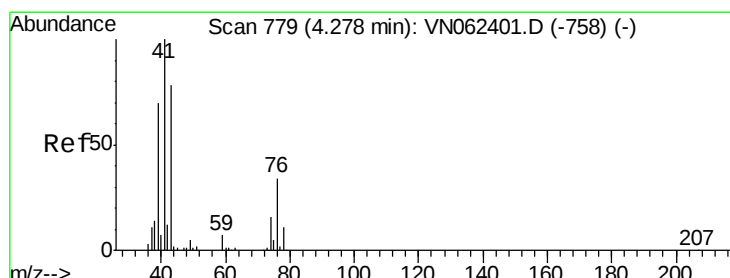
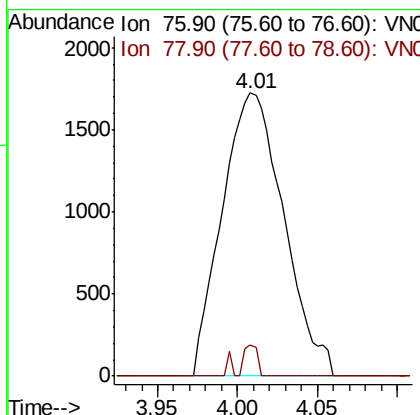
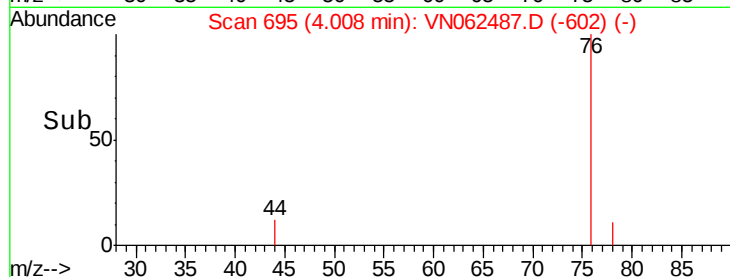
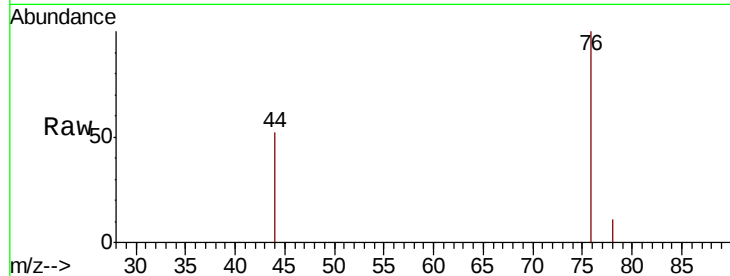
#17
Carbon Disulfide
Concen: 0.729 ug/l
RT: 4.01 min Scan# 695
Delta R.T. 0.00 min
Lab File: VN062487.D
Acq: 10 Jul 2020 12:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2020DL

Tot Ion: 76 Resp: 4551
Ion Ratio Lower Upper
76 100
78 11.1 7.3 10.9#

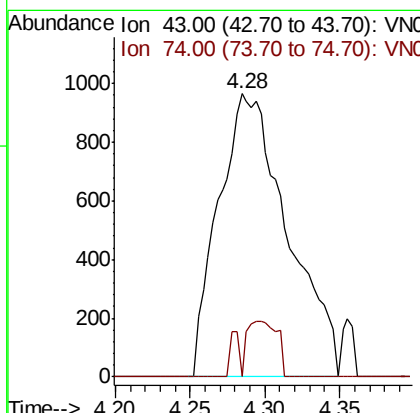
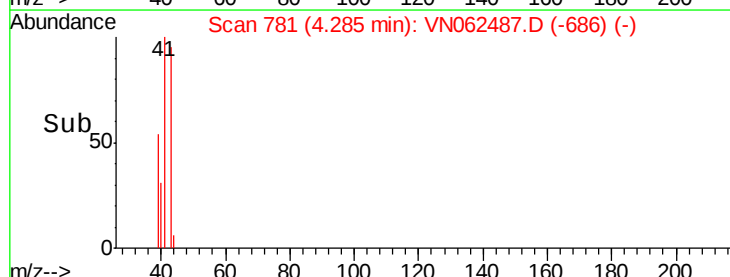
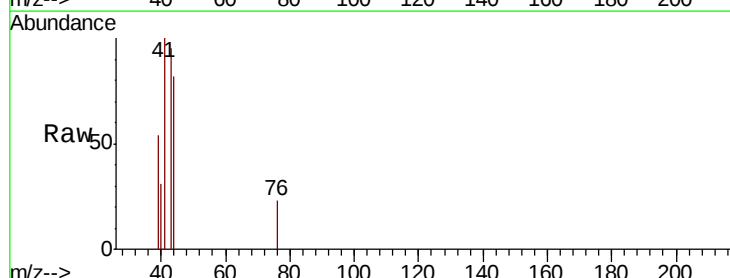
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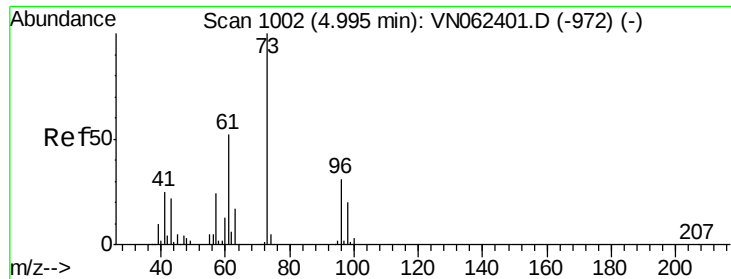
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#18
Methyl Acetate
Concen: 0.980 ug/l
RT: 4.28 min Scan# 781
Delta R.T. 0.01 min
Lab File: VN062487.D
Acq: 10 Jul 2020 12:42

Tgt Ion: 43 Resp: 3100
Ion Ratio Lower Upper
43 100
74 1.9 16.0 24.0#





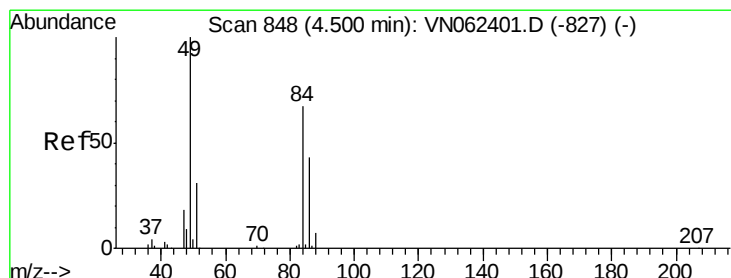
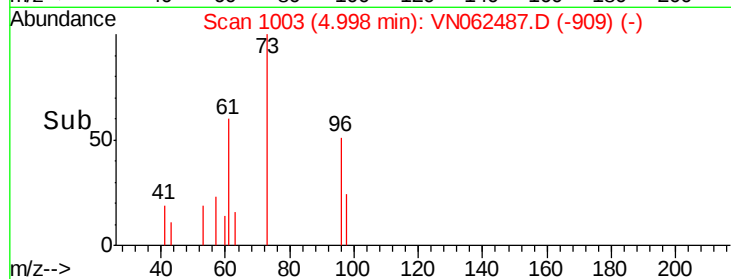
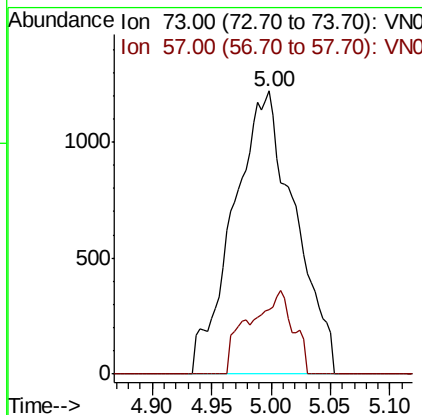
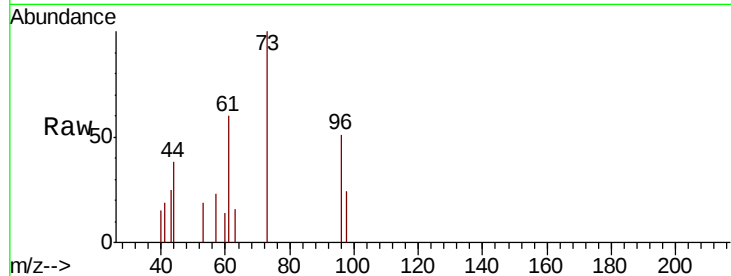
#19
Methvl tert-butvl Ether
Concen: 0.577 ug/l
RT: 5.00 min Scan# 1003
Delta R.T. 0.00 min
Lab File: VN062487.D
Acq: 10 Jul 2020 12:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2020DL

Tot Ion: 73 Resp: 4358
Ion Ratio Lower Upper
73 100
57 22.7 19.4 29.0

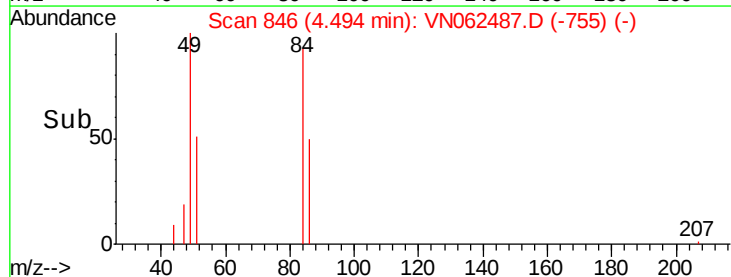
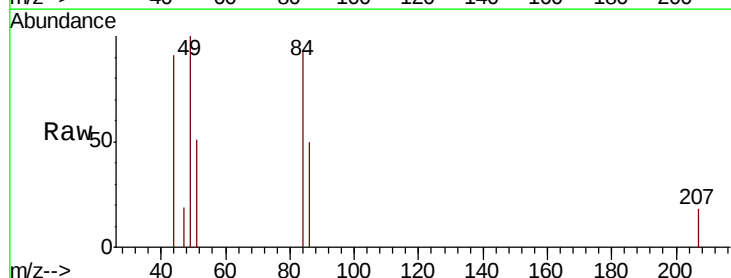
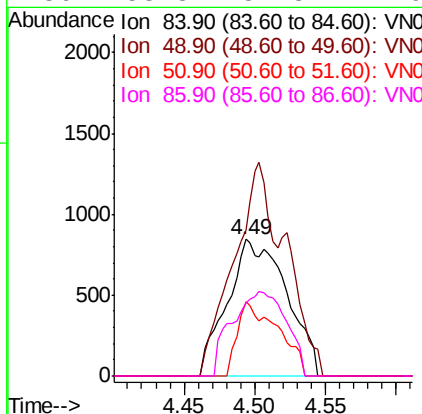
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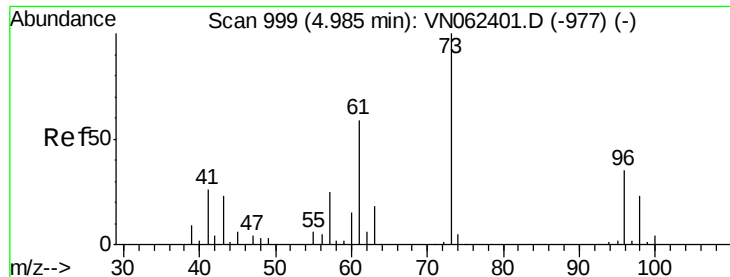
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#20
Methylene Chloride
Concen: 0.908 ug/l m
RT: 4.49 min Scan# 846
Delta R.T. -0.01 min
Lab File: VN062487.D
Acq: 10 Jul 2020 12:42

Tgt Ion: 84 Resp: 2461
Ion Ratio Lower Upper
84 100
49 107.3 120.0 180.0#
51 54.6 37.0 55.6
86 53.8 51.8 77.6





#21

trans-1,2-Dichloroethene

Concen: 0.667 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VN062487.D

Acq: 10 Jul 2020 12:42

Instrument :

MSVOA_N

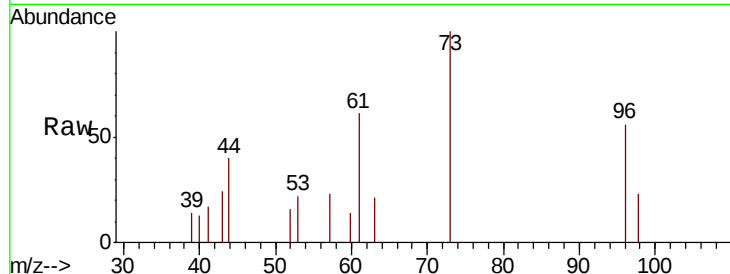
ClientSampleId :

MDL-WATER-03-QT3-2020DL

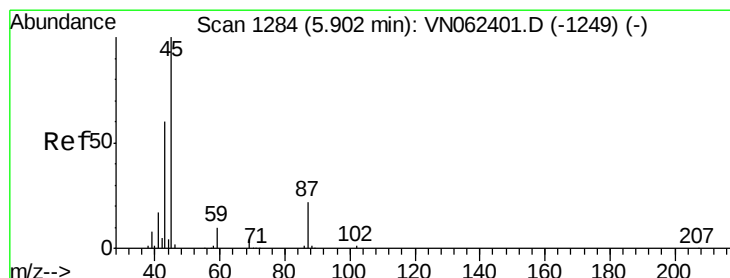
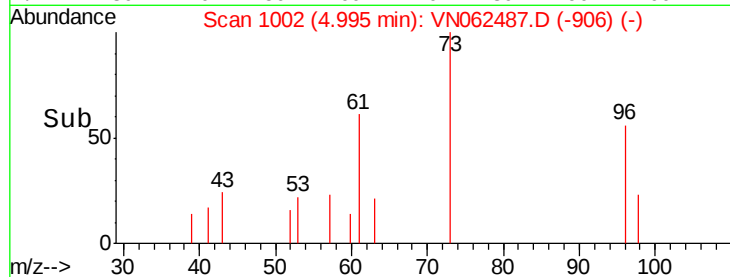
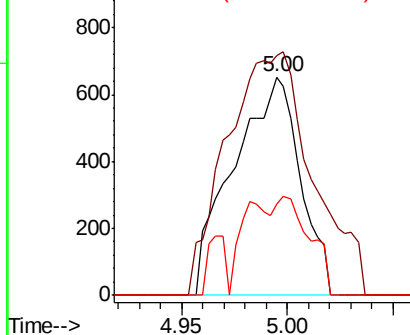
Tot Ion:	96	Resp:	1439
Ion	Ratio	Lower	Upper
96	100		
61	109.8	133.5	200.3#
98	42.0	51.9	77.9#

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Abundance Ion 95.90 (95.60 to 96.60): VNC
Ion 60.90 (60.60 to 61.60): VNC
Ion 97.90 (97.60 to 98.60): VNC



#22

Diisopropyl ether

Concen: 0.581 ug/l

RT: 5.91 min Scan# 1285

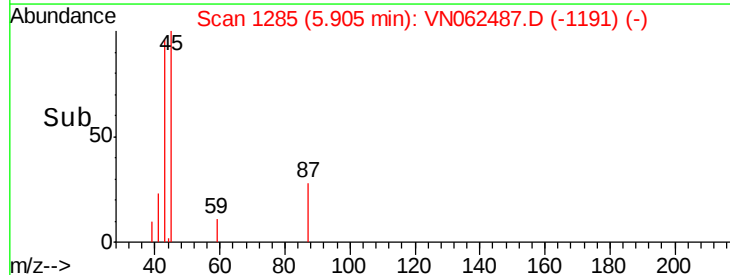
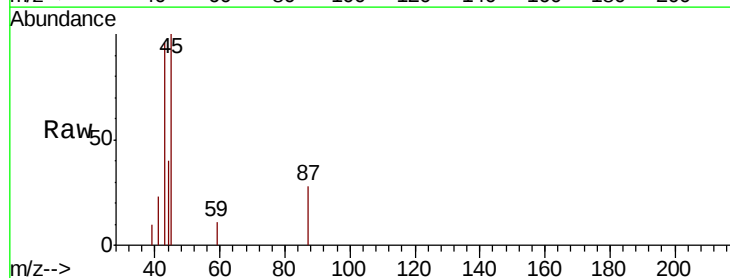
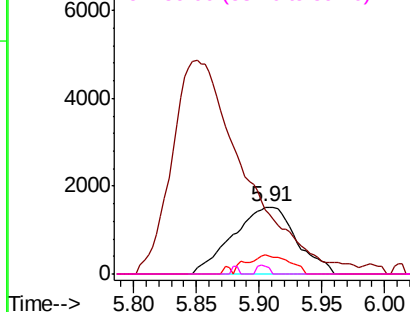
Delta R.T. 0.00 min

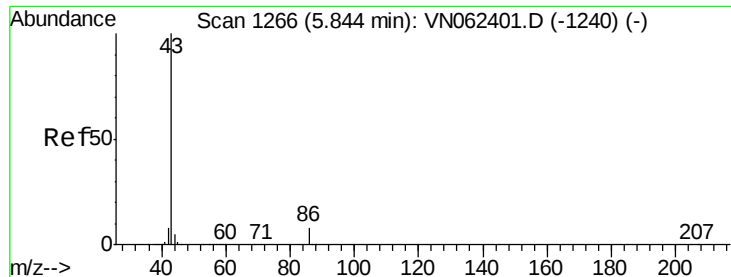
Lab File: VN062487.D

Acq: 10 Jul 2020 12:42

Tgt Ion:	45	Resp:	5376
Ion	Ratio	Lower	Upper
45	100		
43	79.1	50.1	75.1#
87	28.1	18.2	27.4#
59	10.9	8.2	12.2

Abundance Ion 45.00 (44.70 to 45.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 87.00 (86.70 to 87.70): VNC
Ion 59.00 (58.70 to 59.70): VNC





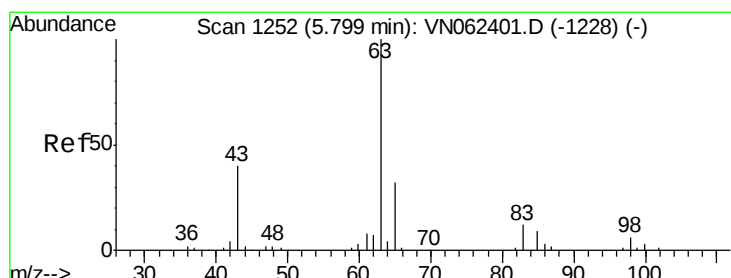
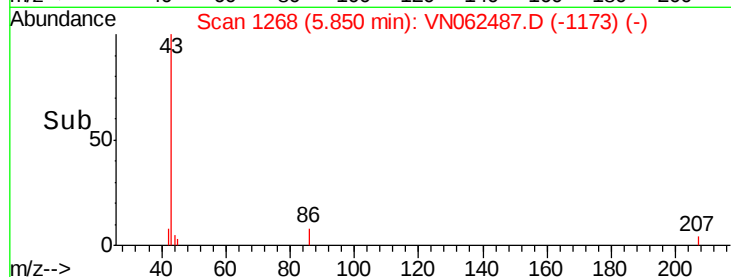
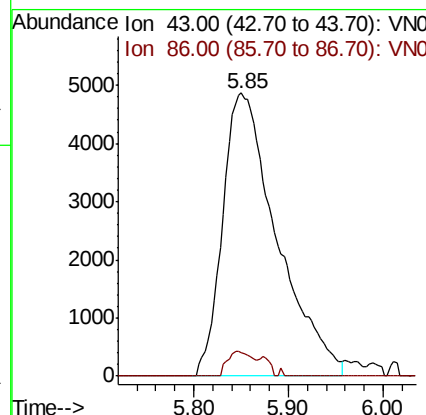
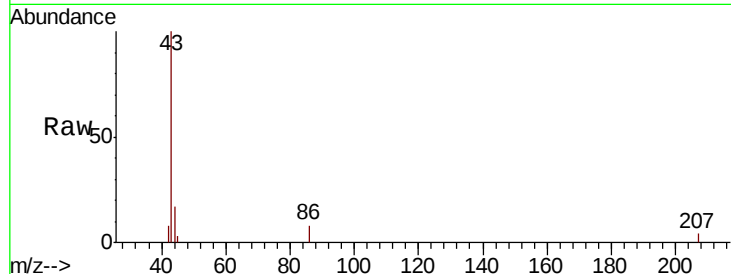
#23
 Vinyl Acetate
 Concen: 2.532 ug/l
 RT: 5.85 min Scan# 1268
 Delta R.T. 0.01 min
 Lab File: VN062487.D
 Acq: 10 Jul 2020 12:42

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT3-2020DL

Tot Ion: 43 Resp: 19422
 Ion Ratio Lower Upper
 43 100
 86 8.2 6.7 10.1

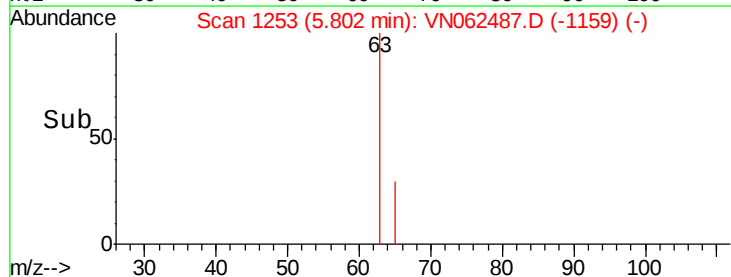
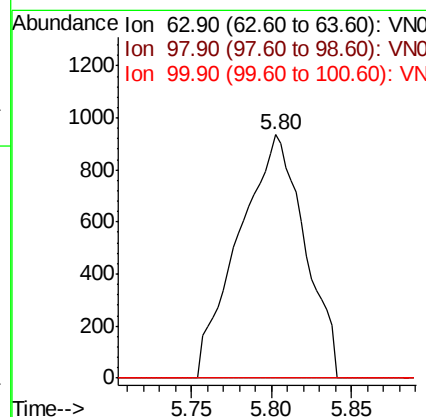
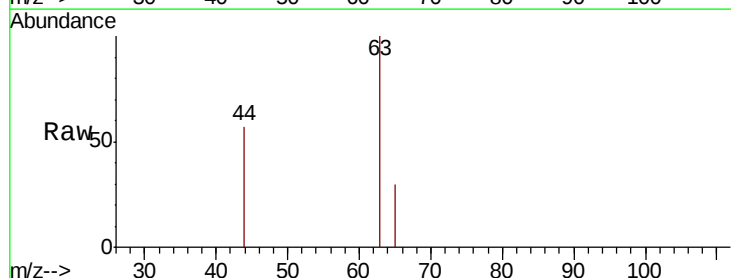
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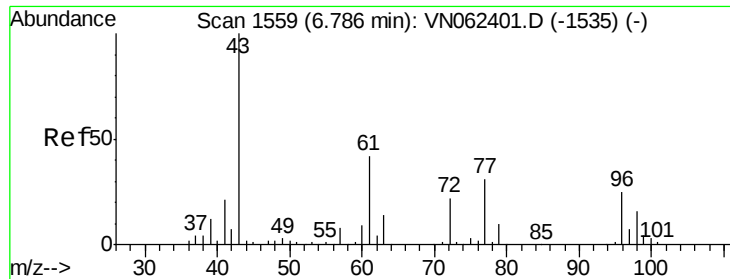
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#24
 1,1-Dichloroethane
 Concen: 0.554 ug/l
 RT: 5.80 min Scan# 1253
 Delta R.T. 0.00 min
 Lab File: VN062487.D
 Acq: 10 Jul 2020 12:42

Tgt Ion: 63 Resp: 2649
 Ion Ratio Lower Upper
 63 100
 98 0.0 2.9 8.8#
 100 0.0 1.8 5.3#





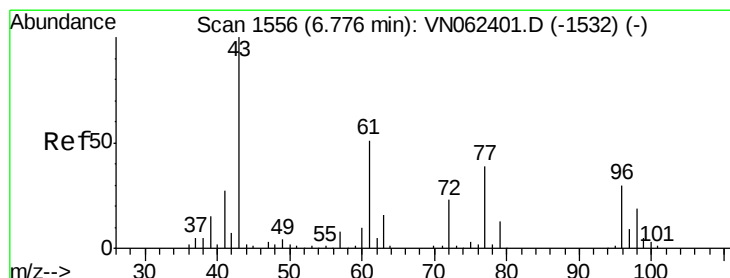
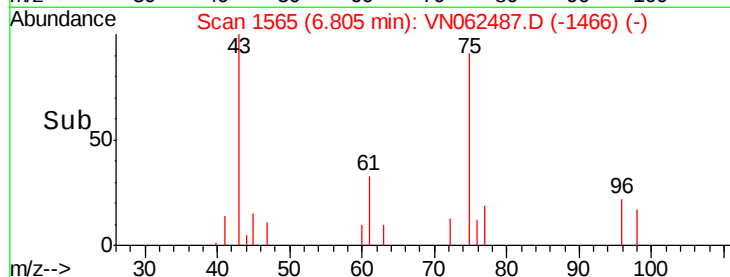
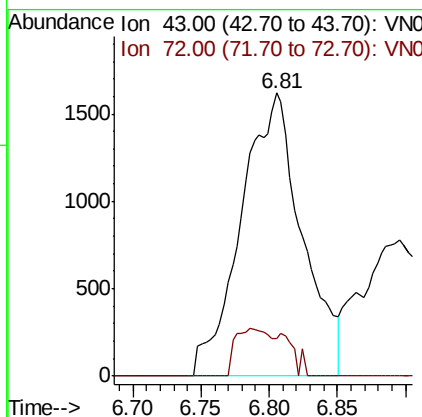
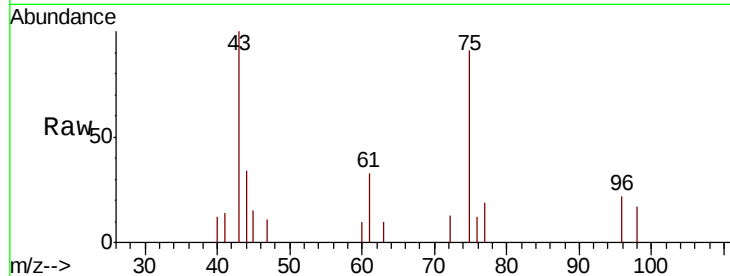
#25
2-Butanone
Concen: 2.710 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. 0.02 min
Lab File: VN062487.D
Acq: 10 Jul 2020 12:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2020DL

Tot Ion: 43 Resp: 5018
Ion Ratio Lower Upper
43 100
72 13.5 17.9 26.9#

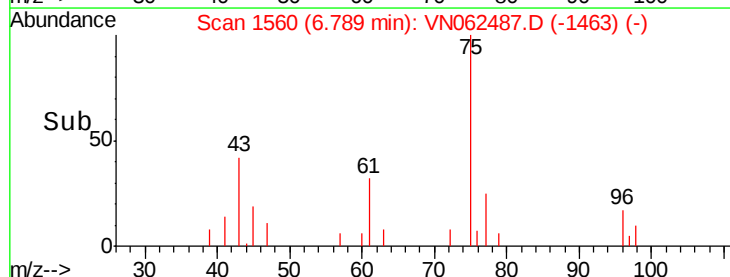
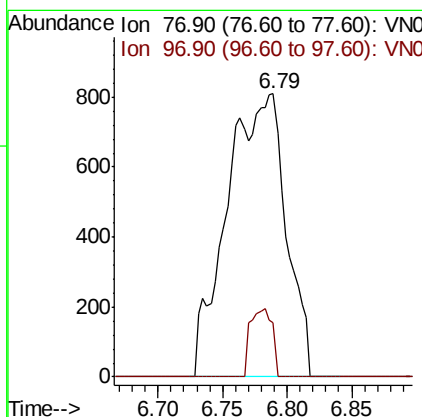
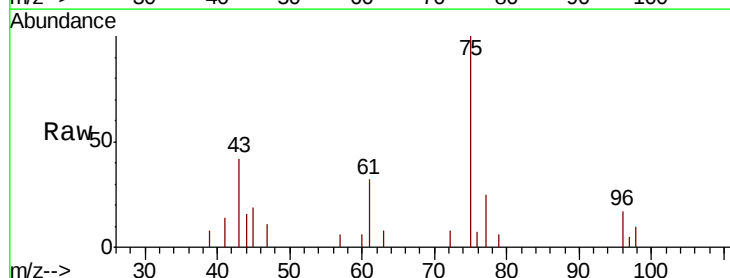
Manual Integrations
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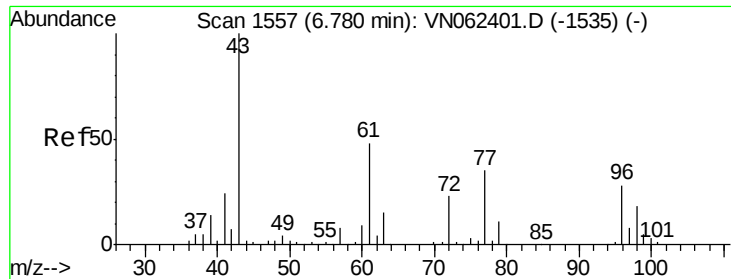
MMDadoda
7/13/2020 11:19:07 AM



#26
2,2-Dichloropropane
Concen: 0.701 ug/l m
RT: 6.79 min Scan# 1560
Delta R.T. 0.01 min
Lab File: VN062487.D
Acq: 10 Jul 2020 12:42

Tgt Ion: 77 Resp: 2572
Ion Ratio Lower Upper
77 100
97 9.0 10.9 32.9#





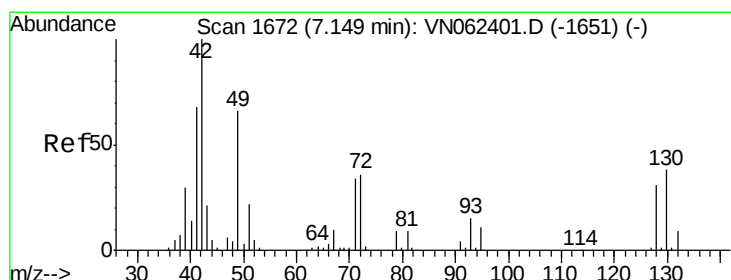
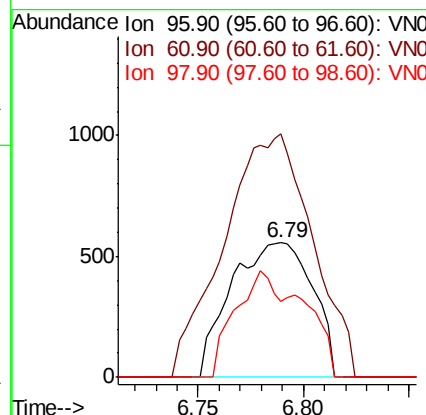
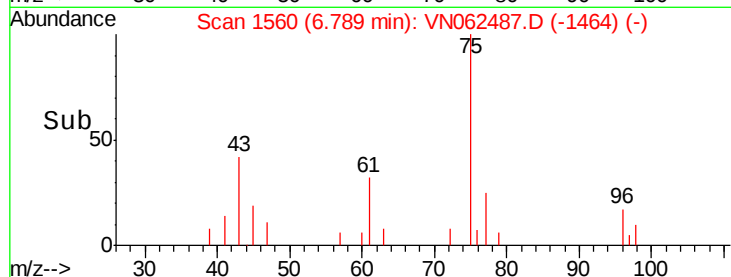
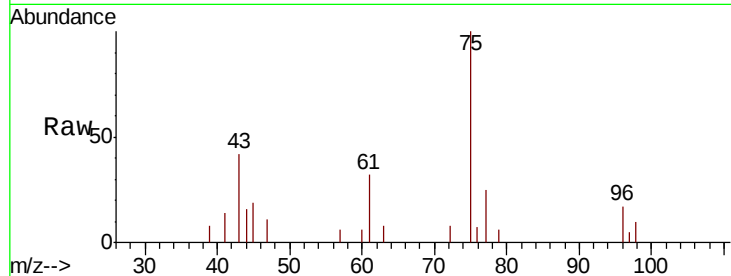
#27
 cis-1,2-Dichloroethene
 Concen: 0.599 ug/l
 RT: 6.79 min Scan# 1560
 Delta R.T. 0.01 min
 Lab File: VN062487.D
 Acq: 10 Jul 2020 12:42

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT3-2020DL

Tot Ion	Ratio	Lower	Upper
96	100		
61	195.9	0.0	343.4
98	41.0	0.0	128.4

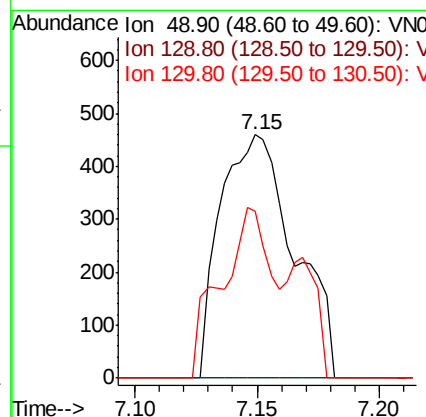
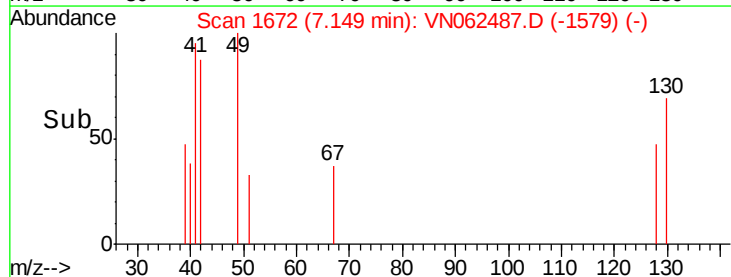
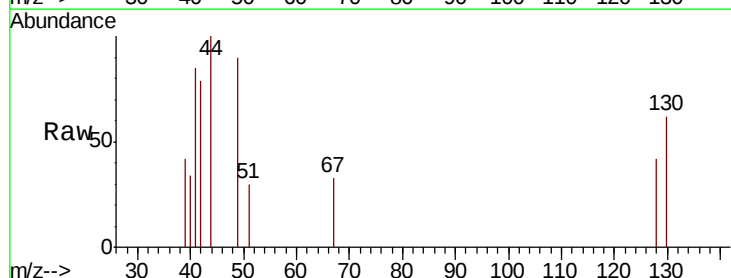
Manual Integrations
 APPROVED

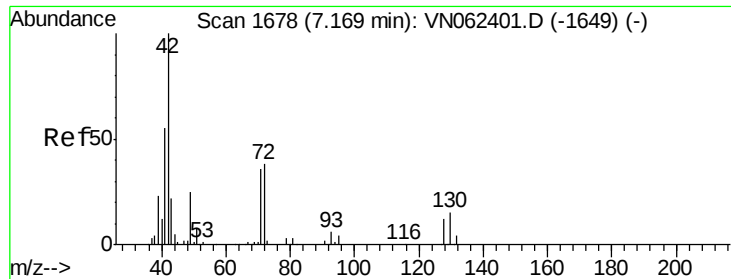
MMDadoda
 7/13/2020 11:19:07 AM



#28
 Bromochloromethane
 Concen: 0.371 ug/l
 RT: 7.15 min Scan# 1672
 Delta R.T. 0.00 min
 Lab File: VN062487.D
 Acq: 10 Jul 2020 12:42

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	2.8
130	47.2	46.5	69.7





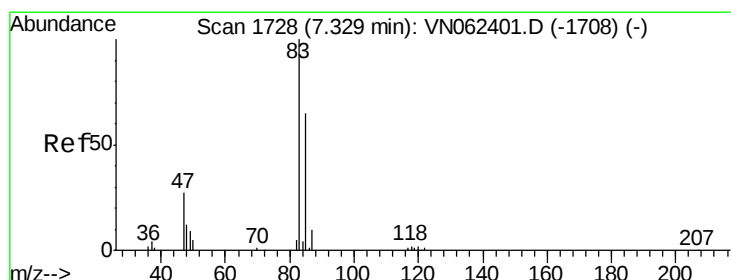
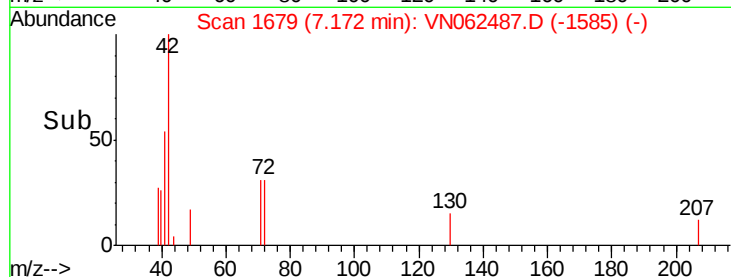
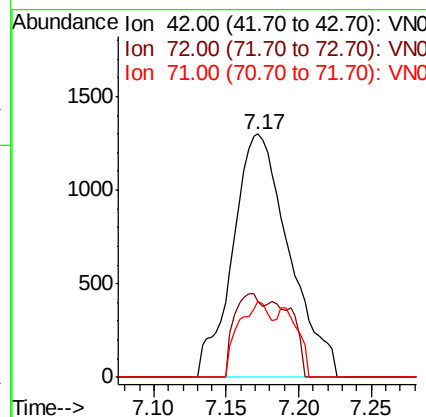
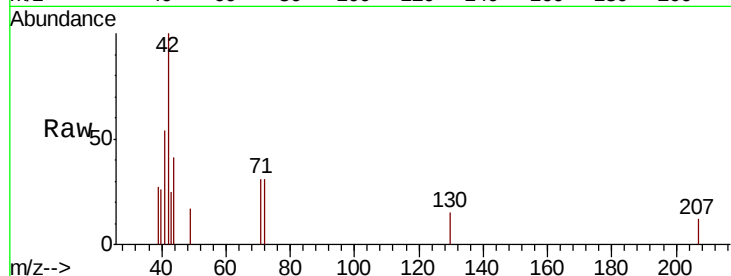
#29
Tetrahydrofuran
Concen: 2.820 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.00 min
Lab File: VN062487.D
Acq: 10 Jul 2020 12:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2020DL

Tot Ion	Ratio	Lower	Upper
42	100		
72	16.8	29.1	43.7#
71	17.4	28.1	42.1#

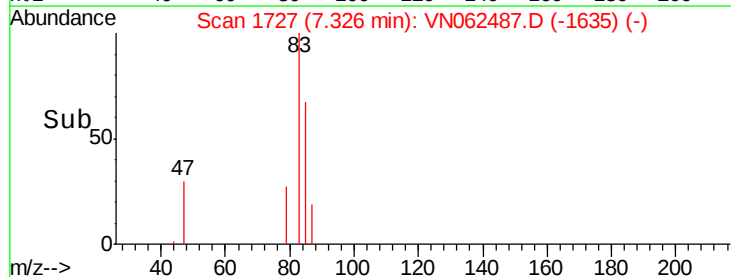
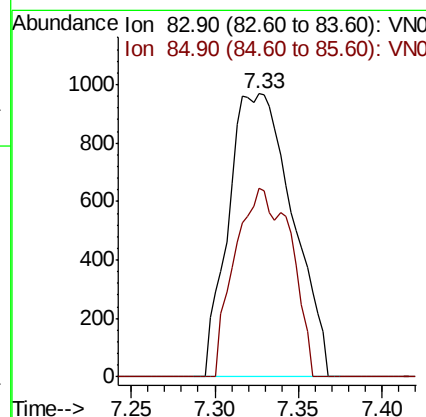
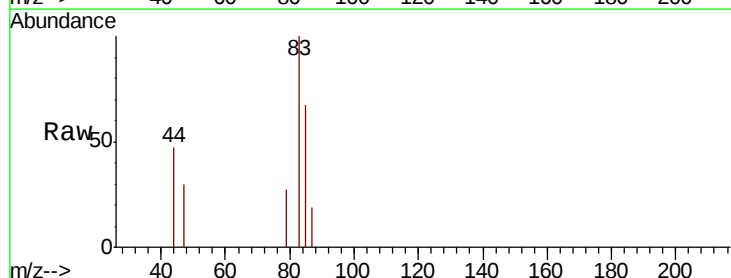
Manual Integrations
APPROVED

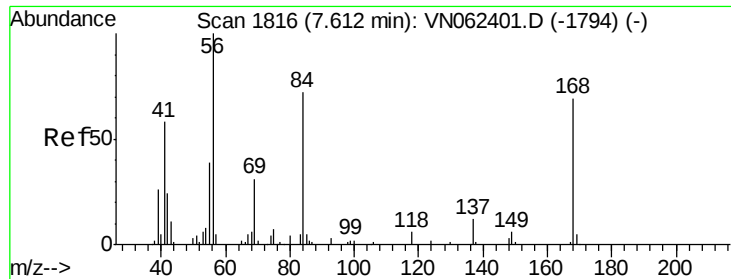
MMDadoda
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#30
Chloroform
Concen: 0.597 ug/l m
RT: 7.33 min Scan# 1727
Delta R.T. -0.00 min
Lab File: VN062487.D
Acq: 10 Jul 2020 12:42

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.6	51.8	77.6





#31

Cyclohexane

Concen: 1.592 ug/l

RT: 7.62 min Scan# 1818

Delta R.T. 0.01 min

Lab File: VN062487.D

Acq: 10 Jul 2020 12:42

Instrument :

MSVOA_N

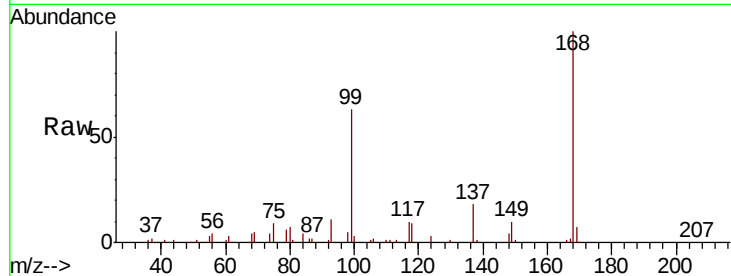
ClientSampleId :

MDL-WATER-03-QT3-2020DL

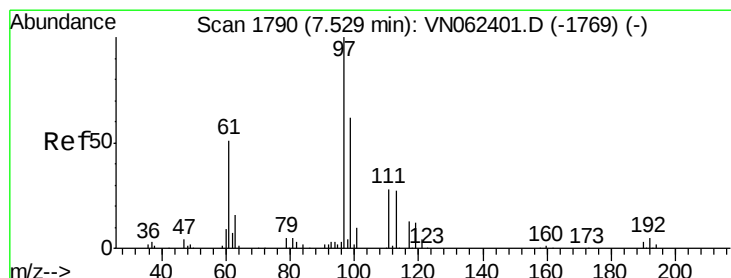
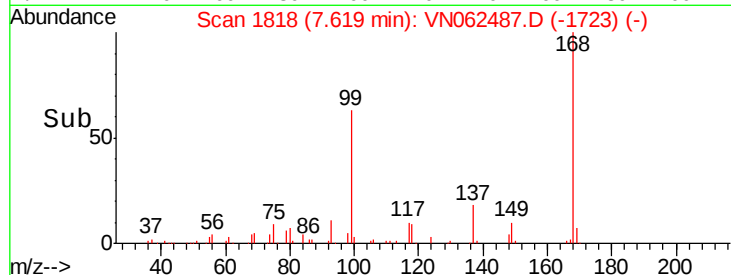
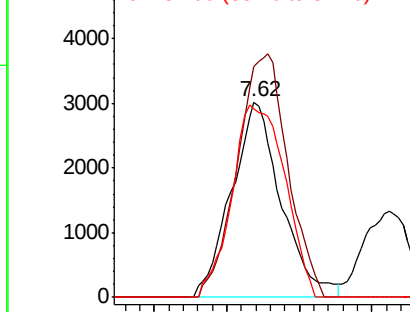
Tot Ion:	56	Resp:	7221
Ion Ratio	Lower	Upper	
56	100		
69	118.1	24.5	36.7#
84	96.3	57.4	86.2#

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Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0



#32

1,1,1-Trichloroethane

Concen: 0.621 ug/l

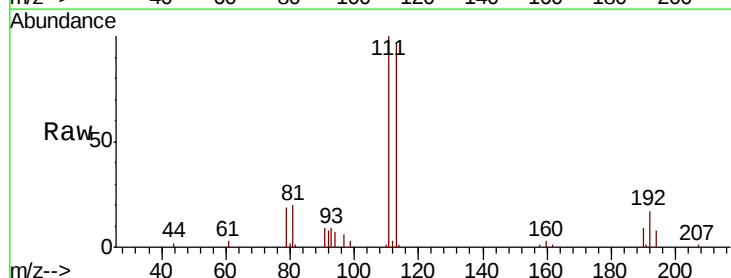
RT: 7.53 min Scan# 1789

Delta R.T. -0.00 min

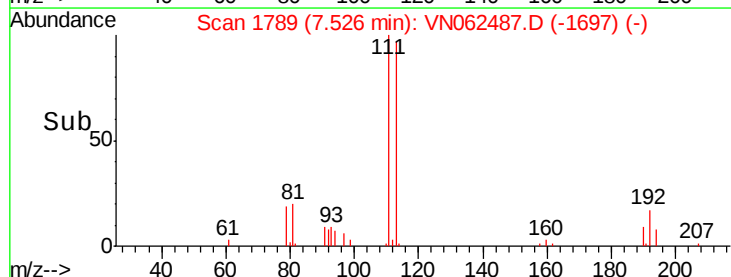
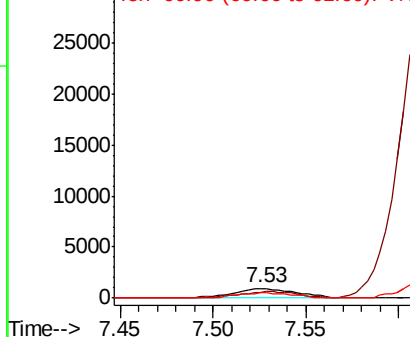
Lab File: VN062487.D

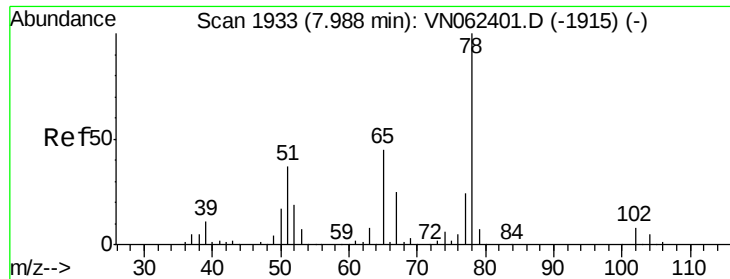
Acq: 10 Jul 2020 12:42

Tgt Ion:	97	Resp:	2230
Ion Ratio	Lower	Upper	
97	100		
99	0.0	50.4	75.6#
61	45.1	39.9	59.9



Abundance Ion 96.90 (96.60 to 97.60): VN0
Ion 98.90 (98.60 to 99.60): VN0
Ion 60.90 (60.60 to 61.60): VN0





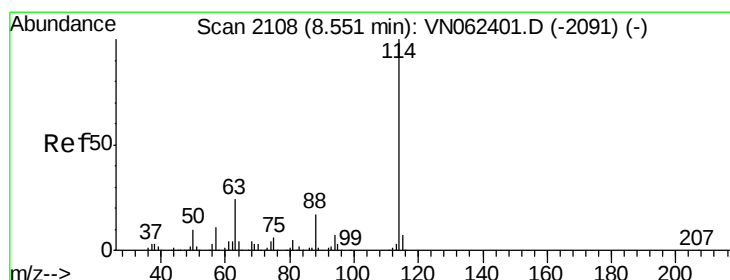
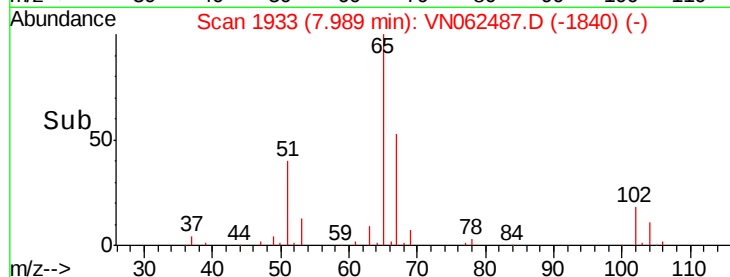
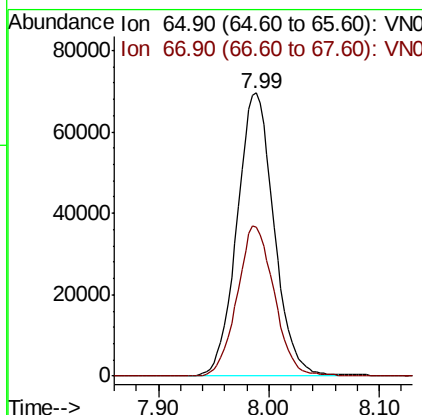
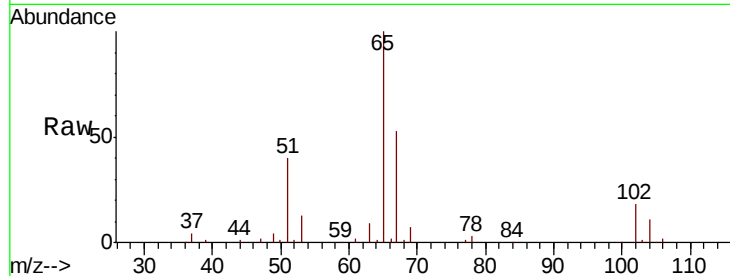
#33
 1,2-Dichloroethane-d4
 Concen: 54.066 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN062487.D
 Acq: 10 Jul 2020 12:42

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT3-2020DL

Tot Ion	Ratio	Resp	Lower	Upper
65	100	161445		
67	53.2	0.0	107.6	

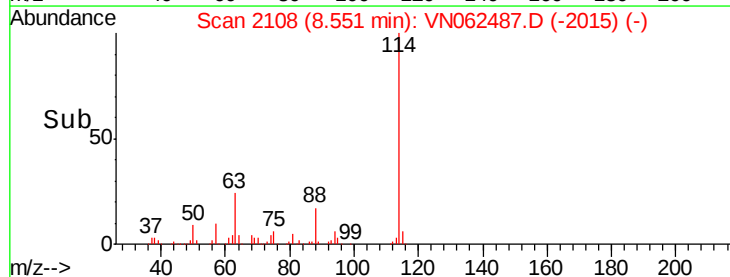
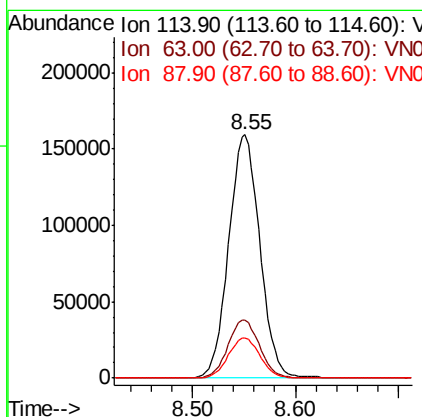
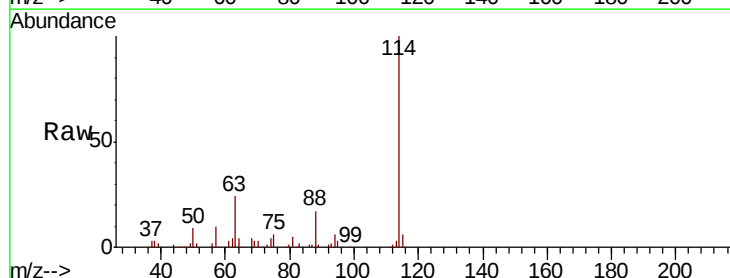
Manual Integrations
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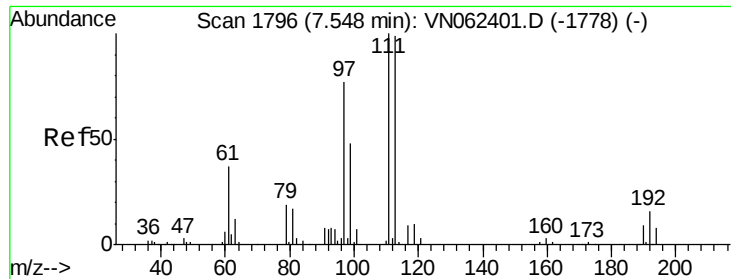
MMDadoda
 7/13/2020 11:19:07 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN062487.D
 Acq: 10 Jul 2020 12:42

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	335637		
63	23.7	0.0	48.4	
88	16.6	0.0	33.8	





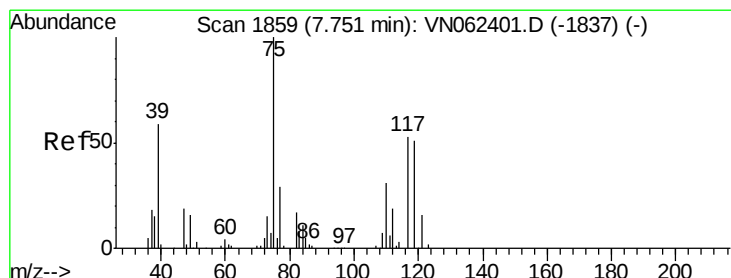
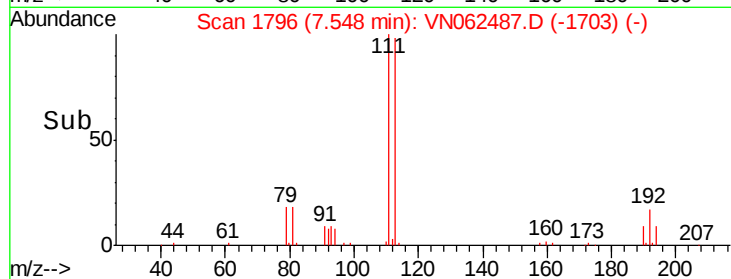
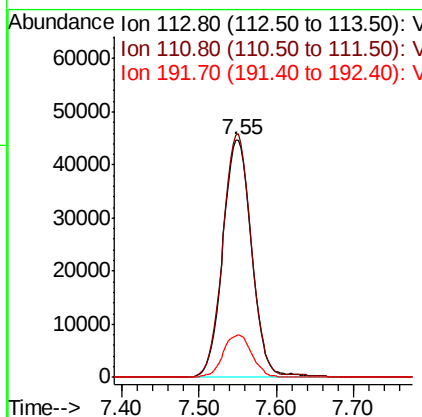
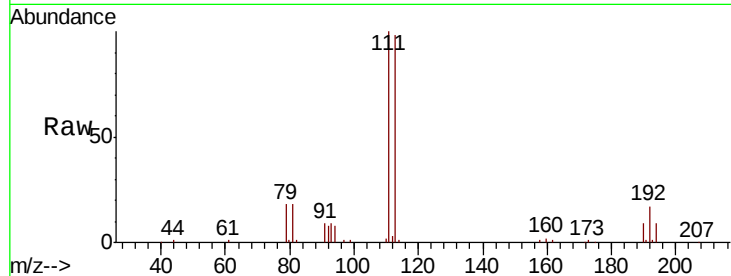
#35
 Dibromofluoromethane
 Concen: 55.779 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN062487.D
 Acq: 10 Jul 2020 12:42

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT3-2020DL

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	101.6	83.1	124.7	
192	17.8	14.1	21.1	

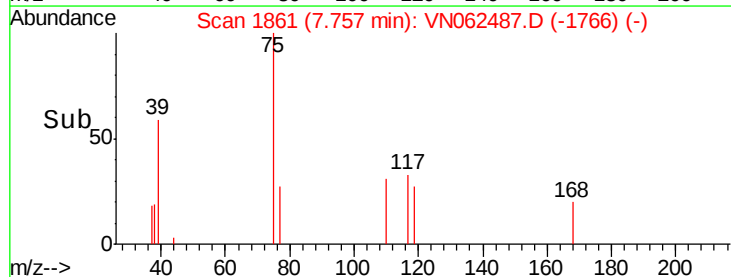
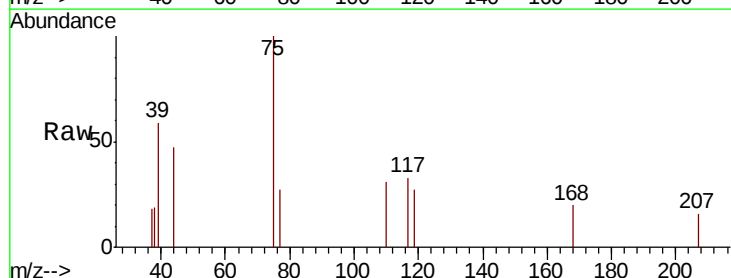
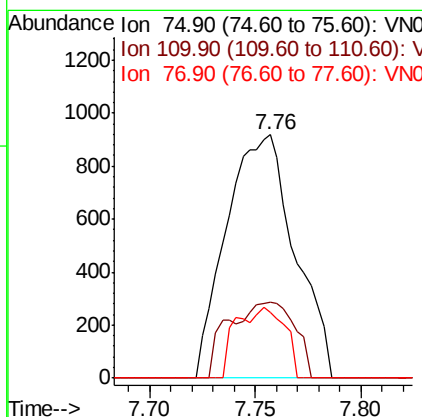
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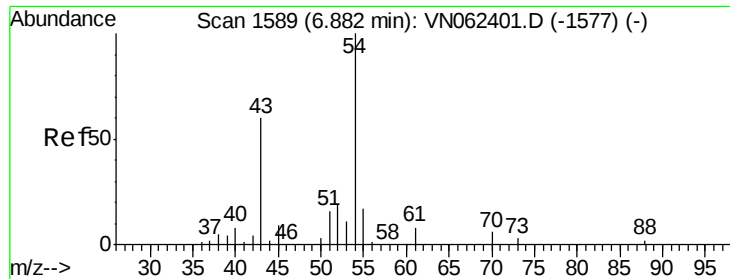
MMDadoda
 7/13/2020 11:19:07 AM



#36
 1,1-Dichloropropene
 Concen: 0.610 ug/l
 RT: 7.76 min Scan# 1861
 Delta R.T. 0.01 min
 Lab File: VN062487.D
 Acq: 10 Jul 2020 12:42

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	30.1	15.4	46.2	
77	20.6	24.1	36.1#	





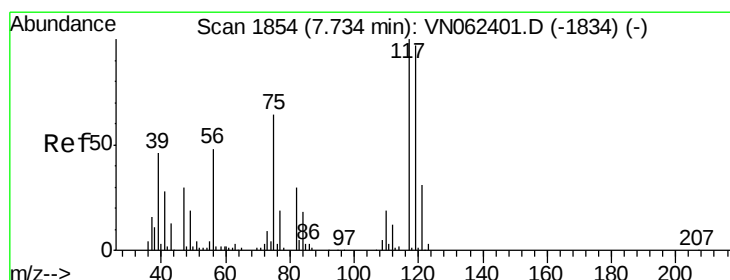
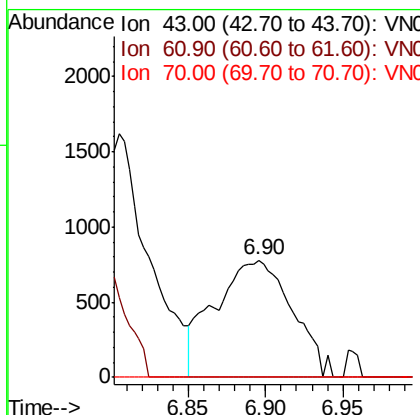
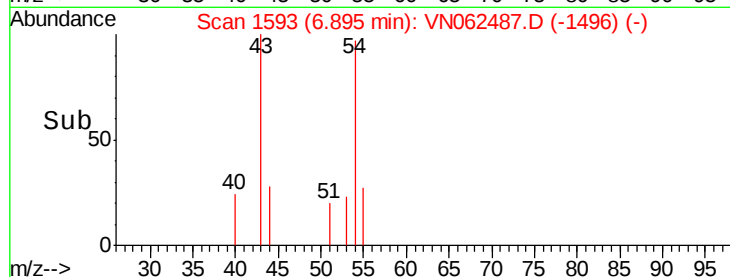
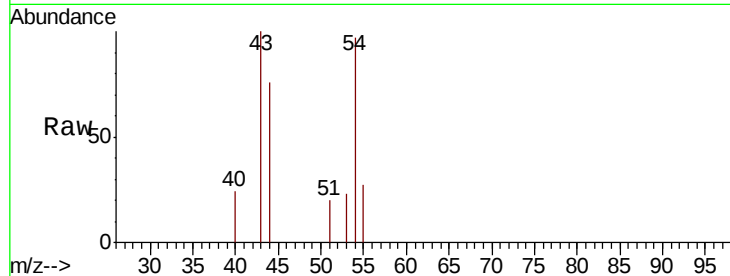
#37
Ethyl Acetate
Concen: 0.686 ug/l
RT: 6.90 min Scan# 1593
Delta R.T. 0.01 min
Lab File: VN062487.D
Acq: 10 Jul 2020 12:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2020DL

Tot Ion: 43 Resp: 2712
Ion Ratio Lower Upper
43 100
61 0.0 10.7 16.1#
70 0.0 7.2 10.8#

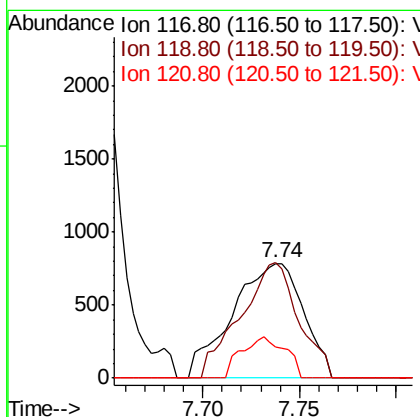
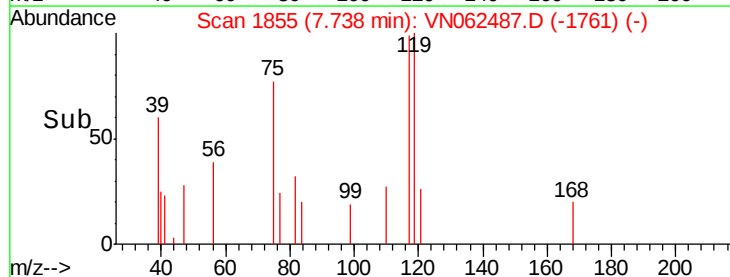
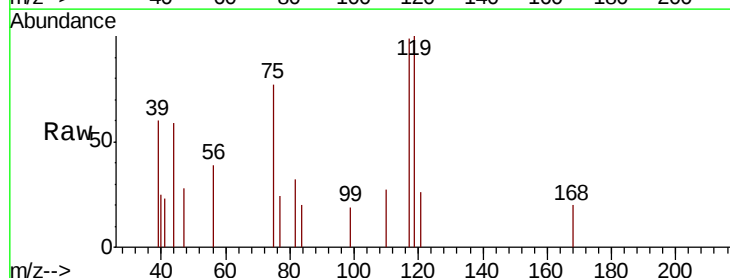
Manual Integrations
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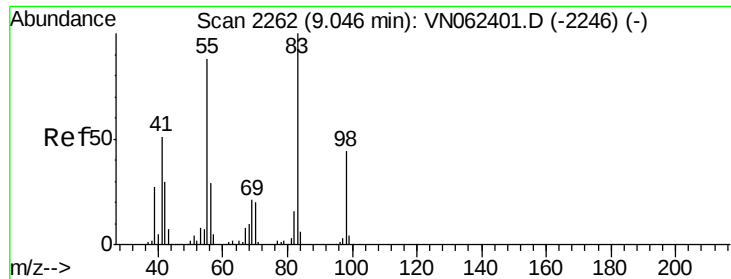
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#38
Carbon Tetrachloride
Concen: 0.661 ug/l
RT: 7.74 min Scan# 1855
Delta R.T. 0.00 min
Lab File: VN062487.D
Acq: 10 Jul 2020 12:42

Tgt Ion: 117 Resp: 2009
Ion Ratio Lower Upper
117 100
119 101.3 77.2 115.8
121 26.6 24.8 37.2





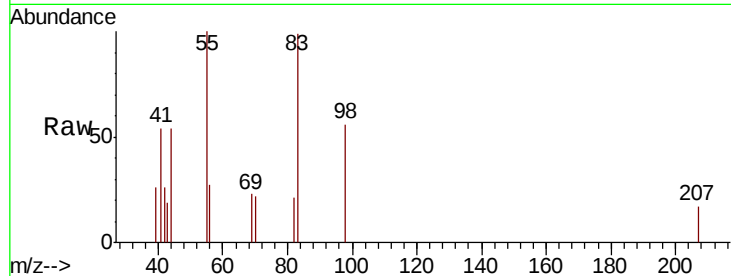
#39
Methvlcvclohexane
Concen: 0.517 ug/l
RT: 9.05 min Scan# 2262
Delta R.T. 0.00 min
Lab File: VN062487.D
Acq: 10 Jul 2020 12:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2020DL

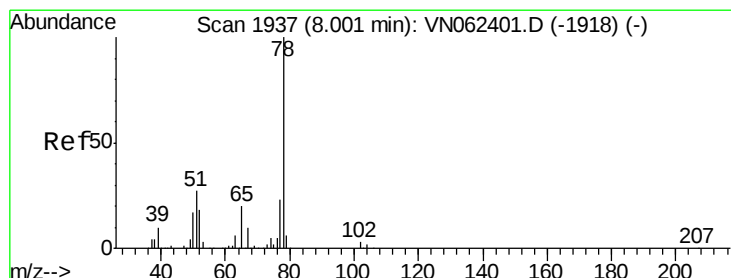
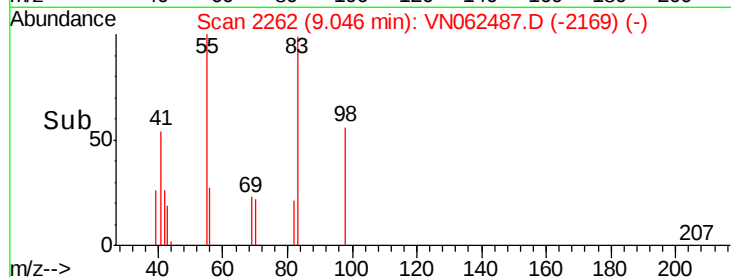
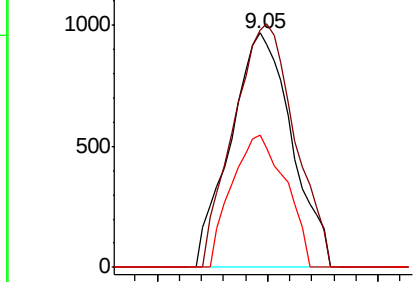
Tot Ion: 83 Resp: 1866
Ion Ratio Lower Upper
83 100
55 101.2 70.5 105.7
98 56.4 35.5 53.3#

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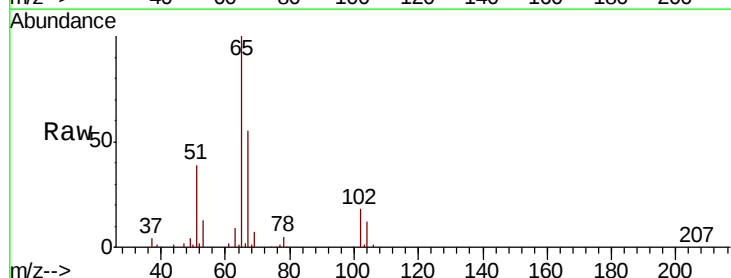


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

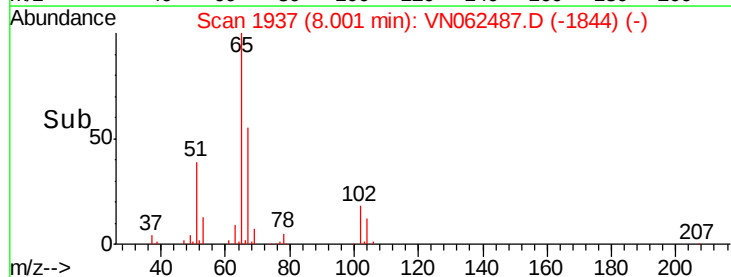
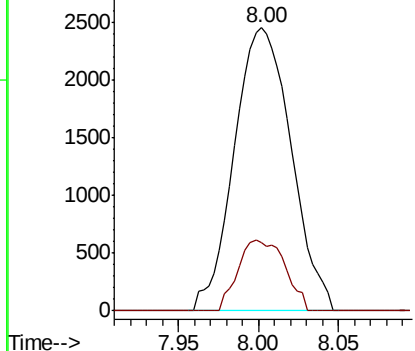


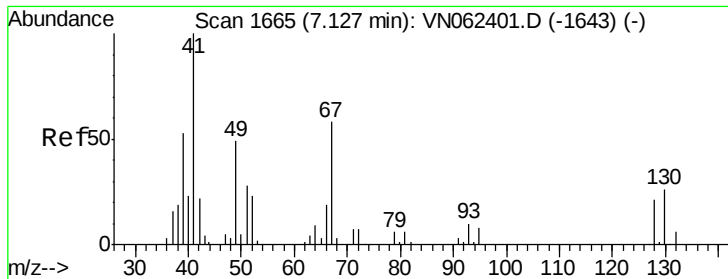
#40
Benzene
Concen: 0.600 ug/l
RT: 8.00 min Scan# 1937
Delta R.T. 0.00 min
Lab File: VN062487.D
Acq: 10 Jul 2020 12:42

Tgt Ion: 78 Resp: 5983
Ion Ratio Lower Upper
78 100
77 24.3 18.7 28.1



Abundance Ion 78.00 (77.70 to 78.70): VN0
Ion 77.00 (76.70 to 77.70): VN0





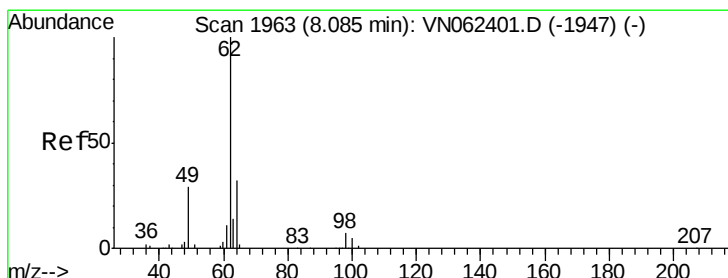
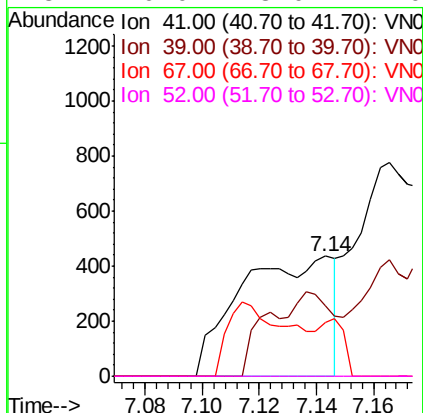
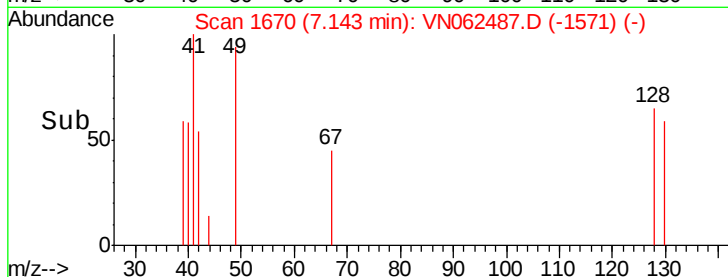
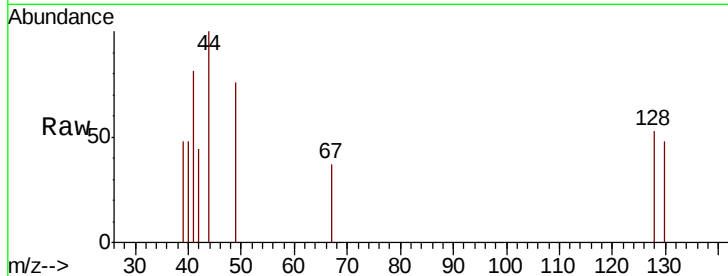
#41
Methacrylonitrile
Concen: 0.597 ug/l m
RT: 7.14 min Scan# 1670
Delta R.T. 0.02 min
Lab File: VN062487.D
Acq: 10 Jul 2020 12:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2020DL

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	16.1	50.2	75.2#	
67	39.5	64.2	96.2#	
52	0.0	28.0	42.0#	

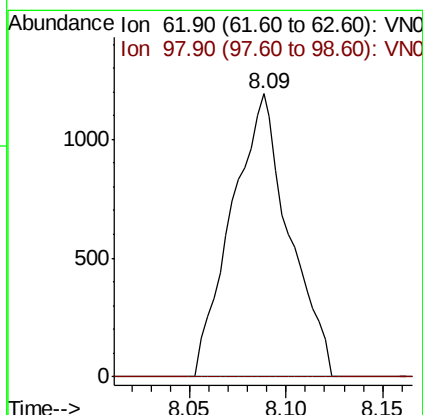
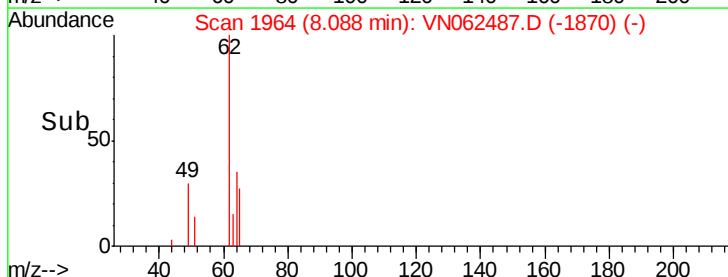
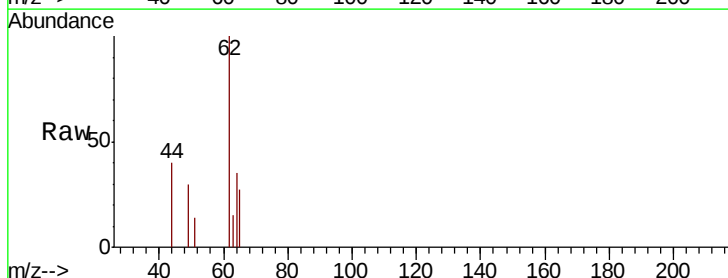
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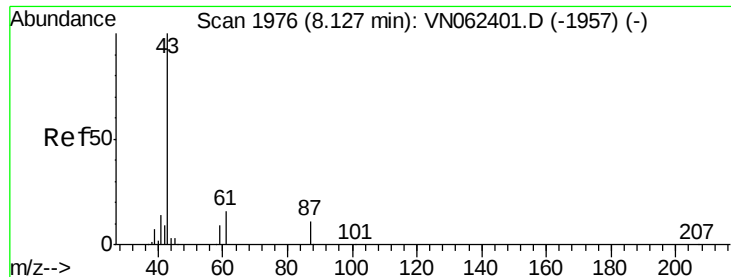
MMDadoda
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#42
1,2-Dichloroethane
Concen: 0.676 ug/l
RT: 8.09 min Scan# 1964
Delta R.T. 0.00 min
Lab File: VN062487.D
Acq: 10 Jul 2020 12:42

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	0.0	0.0	15.8	





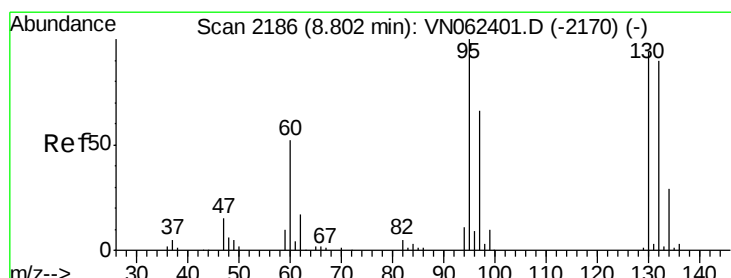
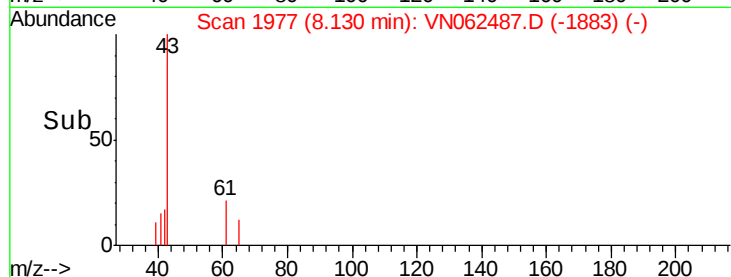
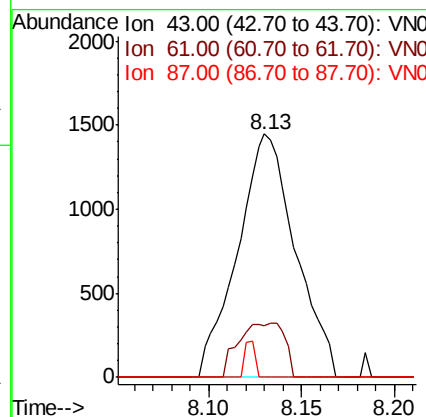
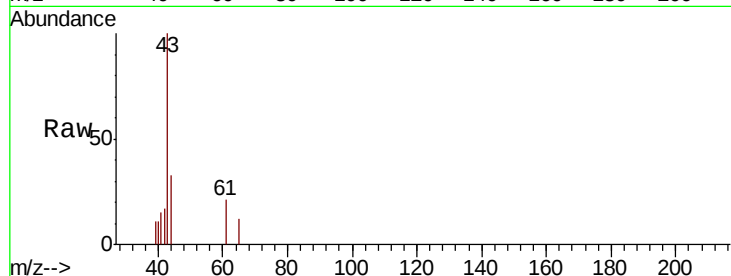
#43
Isopropyl Acetate
Concen: 0.504 ug/l
RT: 8.13 min Scan# 1977
Delta R.T. 0.00 min
Lab File: VN062487.D
Acq: 10 Jul 2020 12:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2020DL

Tot Ion	Ratio	Lower	Upper
43	100		
61	17.7	19.3	28.9#
87	2.6	8.6	13.0#

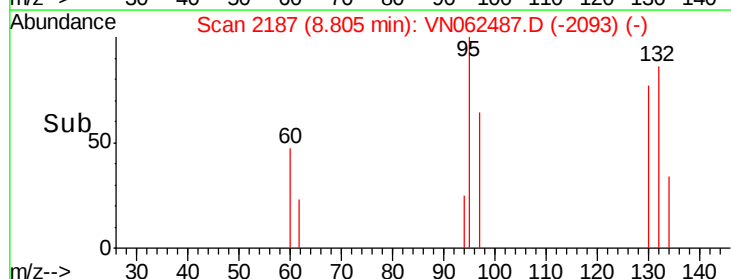
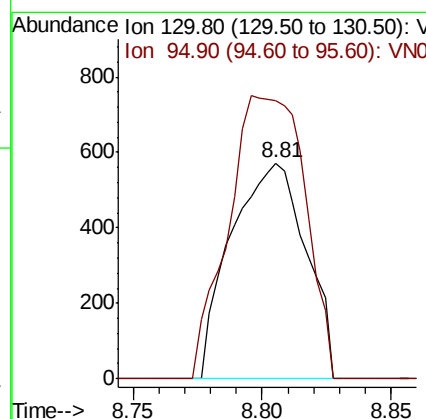
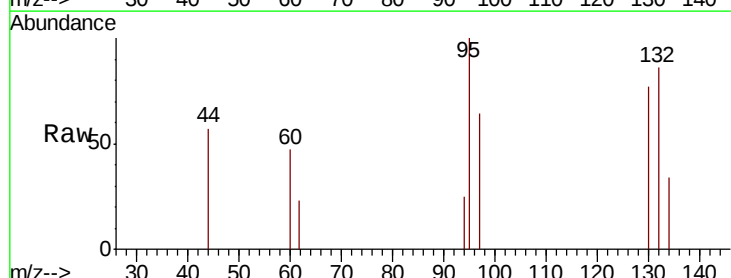
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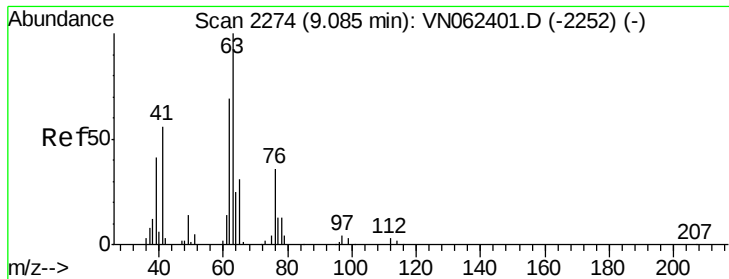
MMDadoda
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#44
Trichloroethene
Concen: 0.521 ug/l
RT: 8.81 min Scan# 2187
Delta R.T. 0.00 min
Lab File: VN062487.D
Acq: 10 Jul 2020 12:42

Tgt Ion	Ratio	Lower	Upper
130	100		
95	129.2	0.0	213.8





#45

1,2-Dichloropropane

Concen: 0.522 ug/l

RT: 9.08 min Scan# 2274

Delta R.T. 0.00 min

Lab File: VN062487.D

Acq: 10 Jul 2020 12:42

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2020DL

Tot Ion: 63 Resp: 1509

Ion Ratio Lower Upper

63 100

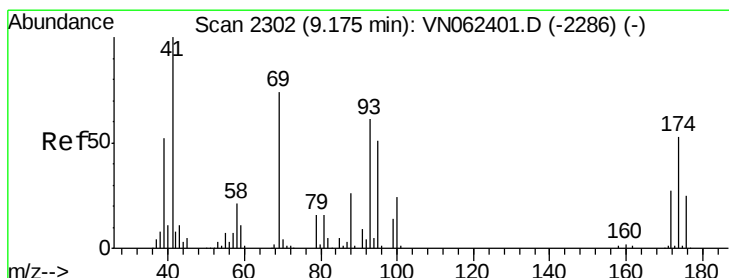
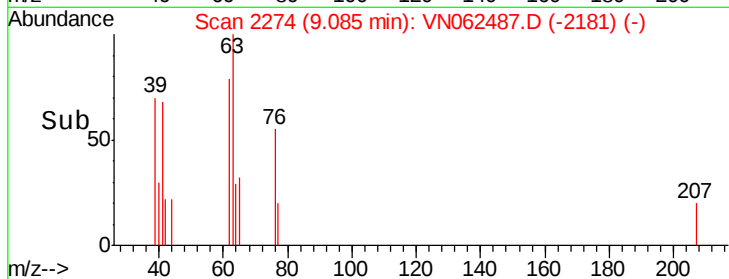
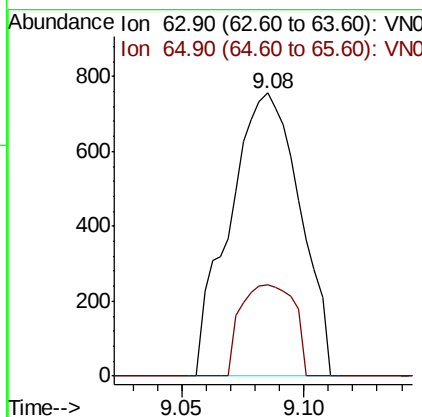
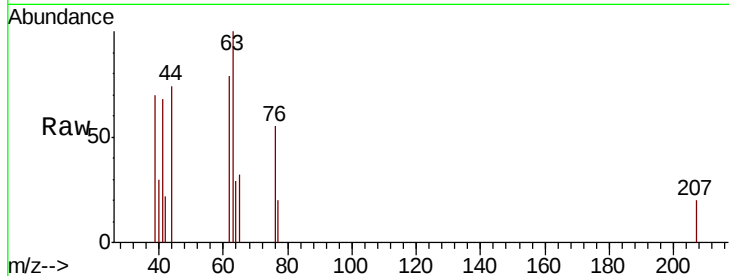
65 32.3 24.6 36.8

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#46

Dibromomethane

Concen: 0.461 ug/l

RT: 9.18 min Scan# 2302

Delta R.T. 0.00 min

Lab File: VN062487.D

Acq: 10 Jul 2020 12:42

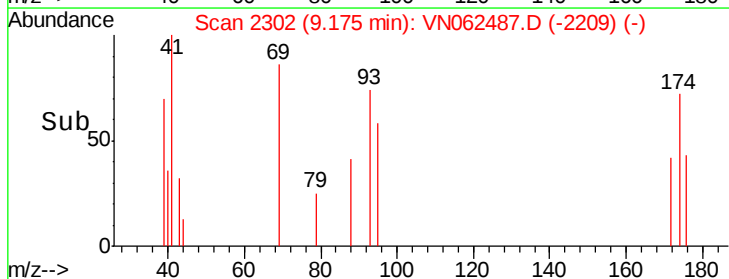
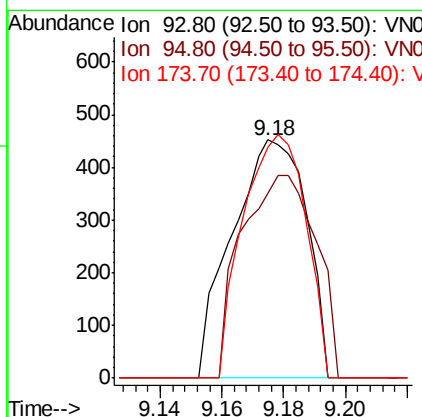
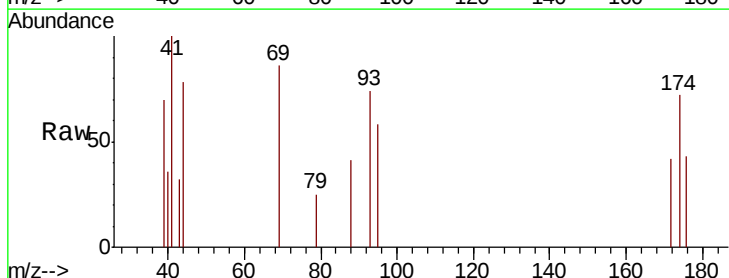
Tgt Ion: 93 Resp: 753

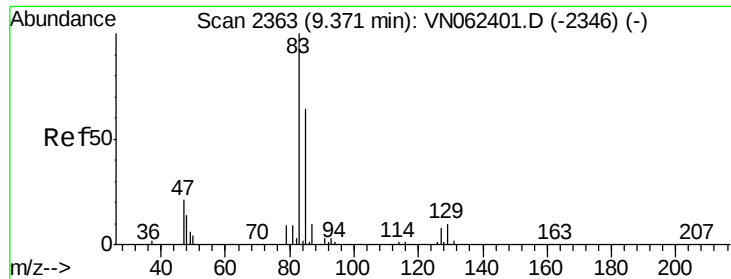
Ion Ratio Lower Upper

93 100

95 85.3 67.1 100.7

174 86.5 70.4 105.6





#47

Bromodichloromethane

Concen: 0.597 ug/l

RT: 9.37 min Scan# 2363

Delta R.T. 0.00 min

Lab File: VN062487.D

Acq: 10 Jul 2020 12:42

Instrument :

MSVOA_N

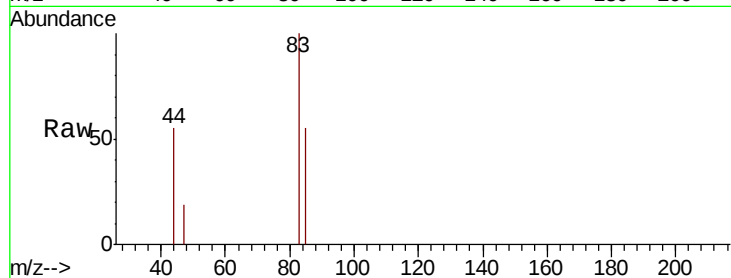
ClientSampleId :

MDL-WATER-03-QT3-2020DL

Tot Ion:	83	Resp:	2085
Ion	Ratio	Lower	Upper
83	100		
85	55.3	51.2	76.8
127	0.0	6.2	9.2#

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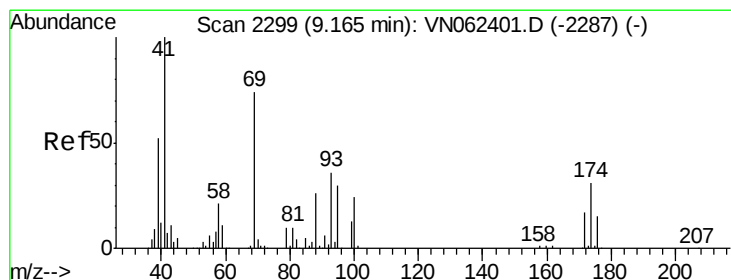
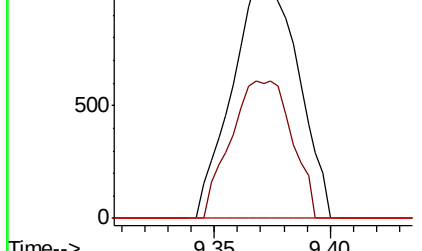
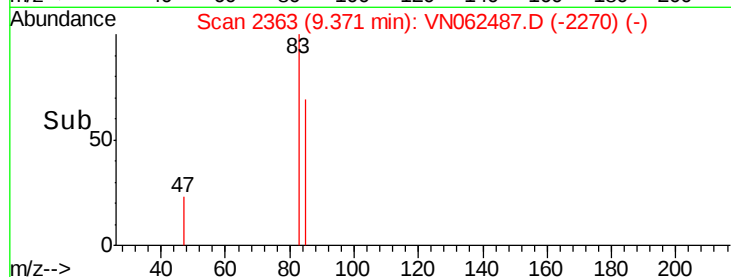


Abundance Ion 82.90 (82.60 to 83.60): VN062401.D (-2346) (-)

Ion 84.90 (84.60 to 85.60): VN062401.D (-2346) (-)

Ion 126.80 (126.50 to 127.50): VN062401.D (-2346) (-)

Time-->



#48

Methyl methacrylate

Concen: 0.447 ug/l

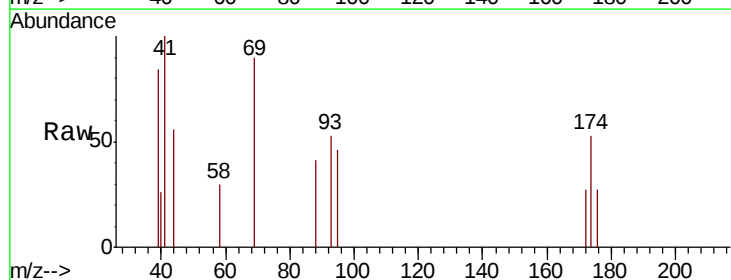
RT: 9.17 min Scan# 2300

Delta R.T. 0.00 min

Lab File: VN062487.D

Acq: 10 Jul 2020 12:42

Tgt Ion:	41	Resp:	1369
Ion	Ratio	Lower	Upper
41	100		
69	85.4	60.8	91.2
39	68.9	43.5	65.3#

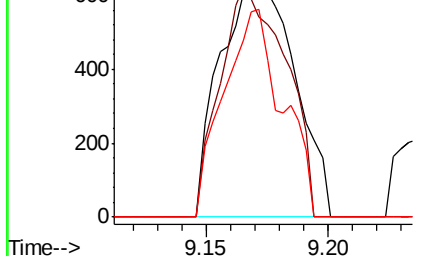
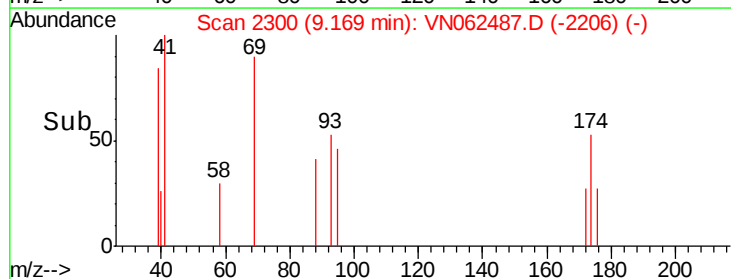


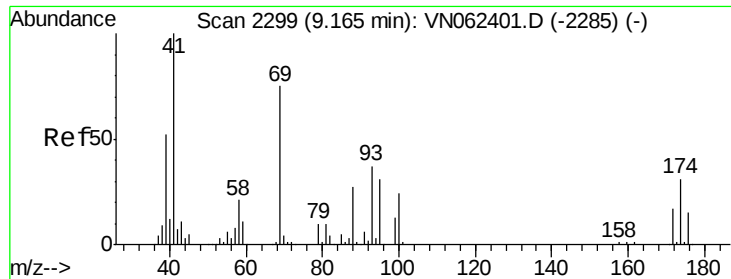
Abundance Ion 41.00 (40.70 to 41.70): VN062401.D (-2287) (-)

Ion 69.00 (68.70 to 69.70): VN062401.D (-2287) (-)

Ion 39.00 (38.70 to 39.70): VN062401.D (-2287) (-)

Time-->





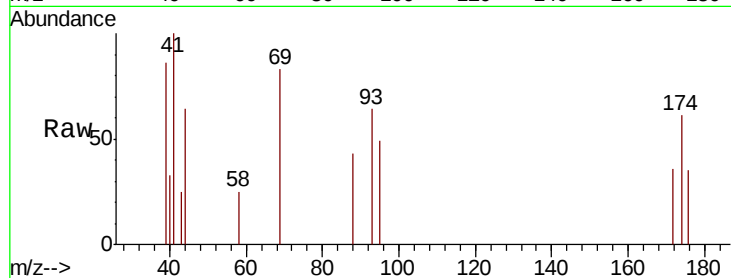
#49
1,4-Dioxane
Concen: 8.812 ug/l
RT: 9.17 min Scan# 2301
Delta R.T. 0.01 min
Lab File: VN062487.D
Acq: 10 Jul 2020 12:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2020DL

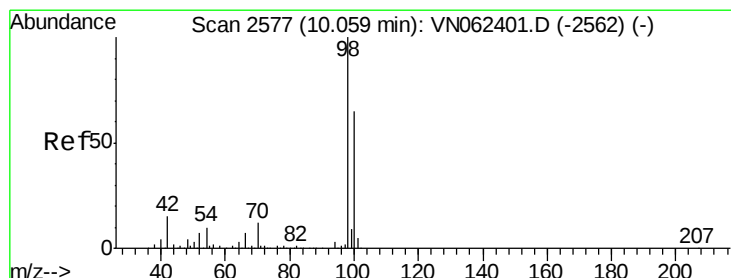
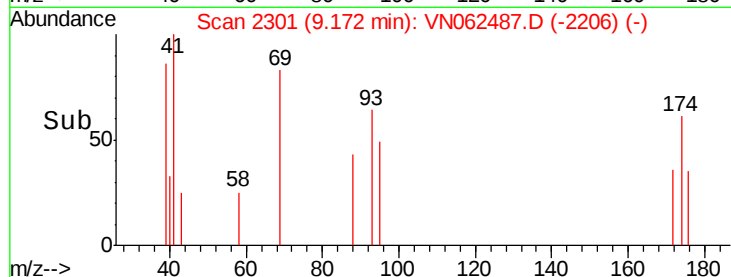
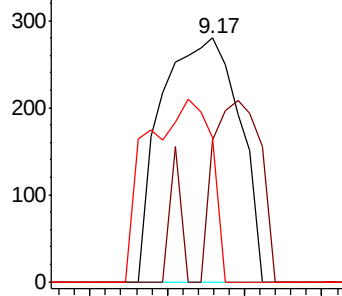
Tot Ion	Ratio	Lower	Upper
88	100		
43	45.0	31.0	46.4
58	61.6	63.3	94.9#

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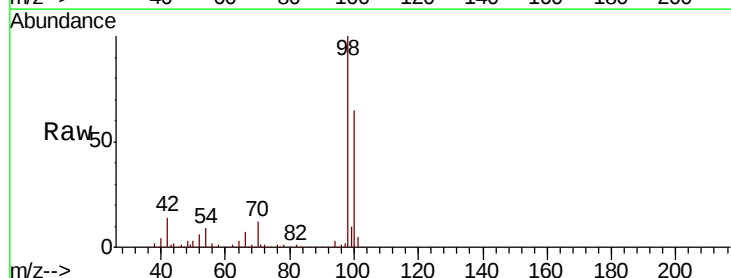


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

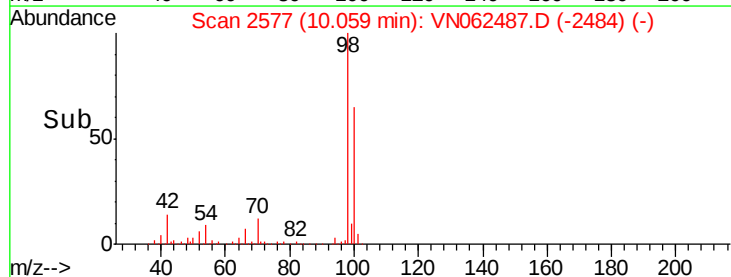
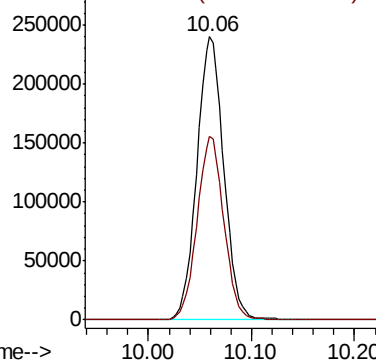


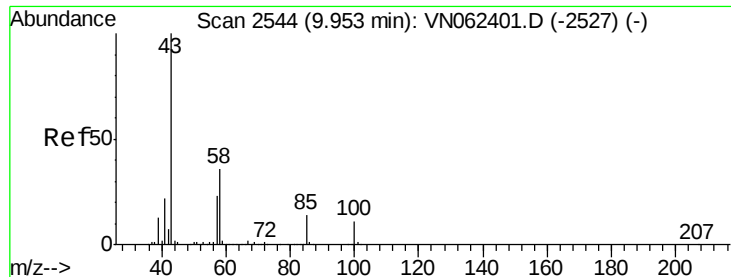
#50
Toluene-d8
Concen: 53.293 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VN062487.D
Acq: 10 Jul 2020 12:42

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.5	77.3



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





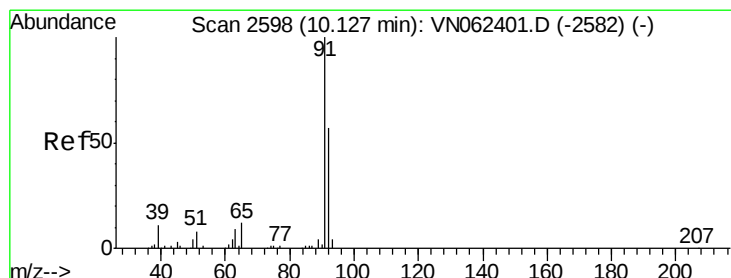
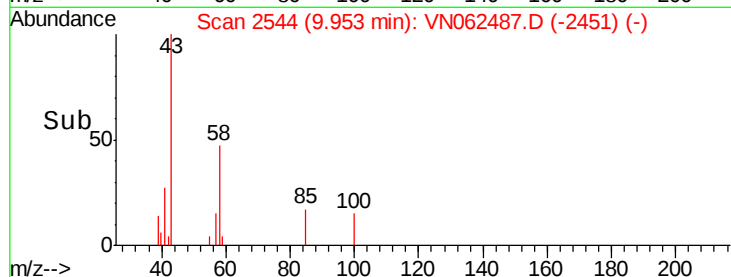
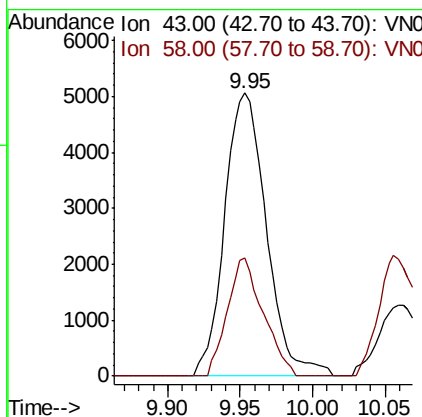
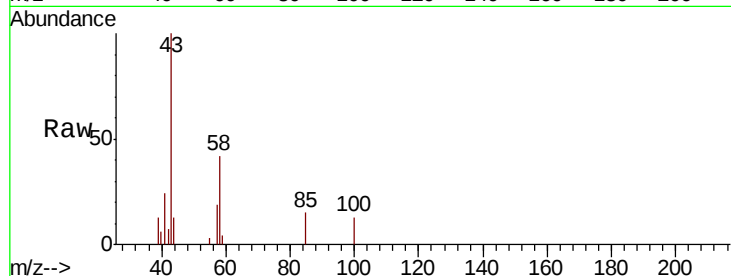
#51
4-Methyl-2-Pentanone
Concen: 2.716 ug/l
RT: 9.95 min Scan# 2544
Delta R.T. 0.00 min
Lab File: VN062487.D
Acq: 10 Jul 2020 12:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2020DL

Tot Ion: 43 Resp: 10132
Ion Ratio Lower Upper
43 100
58 35.7 29.0 43.6

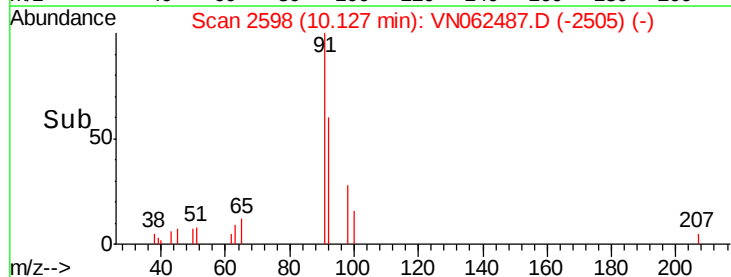
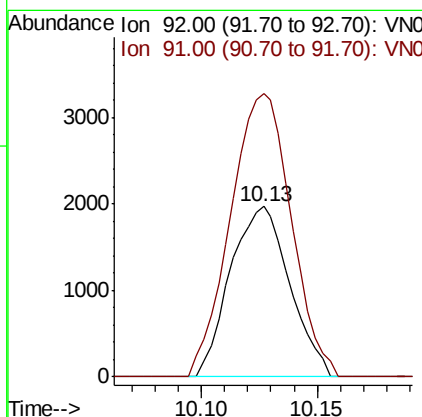
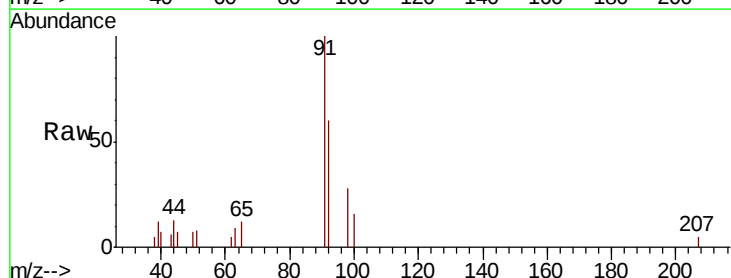
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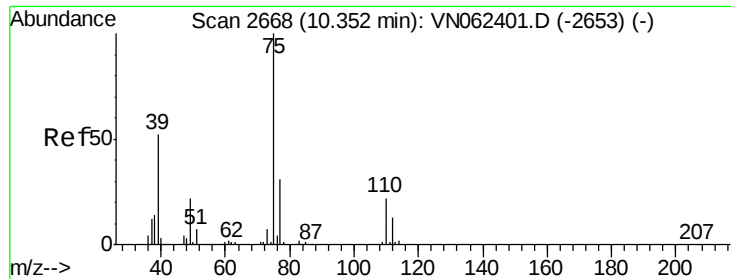
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#52
Toluene
Concen: 0.609 ug/l
RT: 10.13 min Scan# 2598
Delta R.T. 0.00 min
Lab File: VN062487.D
Acq: 10 Jul 2020 12:42

Tgt Ion: 92 Resp: 3505
Ion Ratio Lower Upper
92 100
91 170.2 141.0 211.6





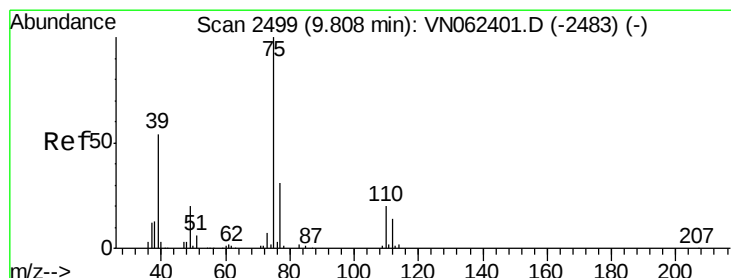
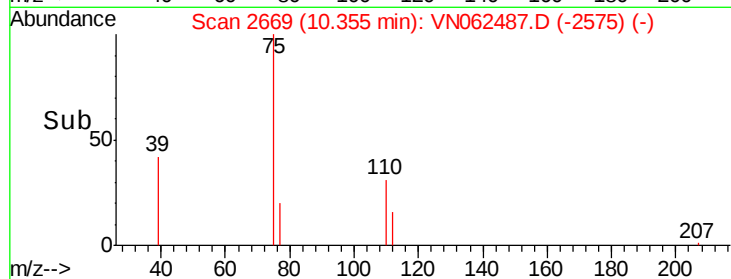
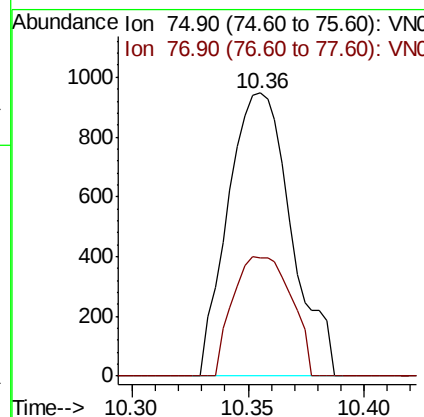
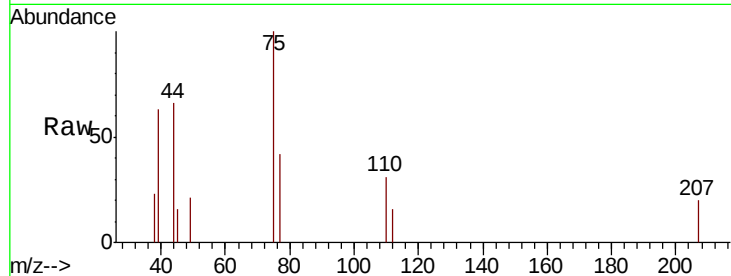
#53
t-1,3-Dichloropropene
Concen: 0.460 ug/l
RT: 10.36 min Scan# 2669
Delta R.T. 0.00 min
Lab File: VN062487.D
Acq: 10 Jul 2020 12:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2020DL

Tot Ion: 75 Resp: 1798
Ion Ratio Lower Upper
75 100
77 41.9 25.2 37.8#

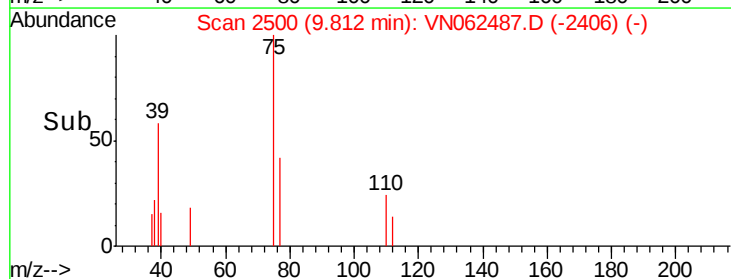
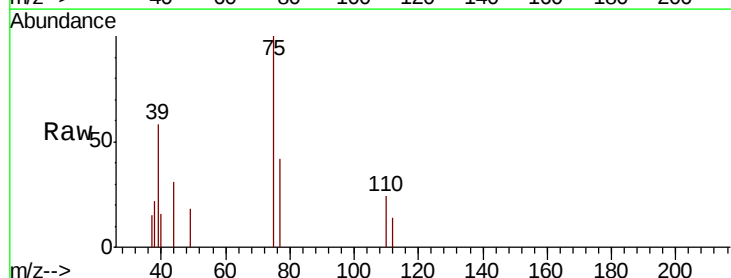
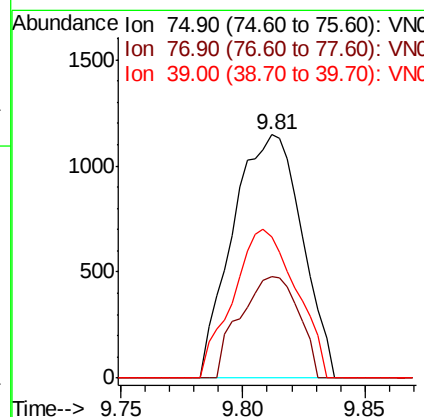
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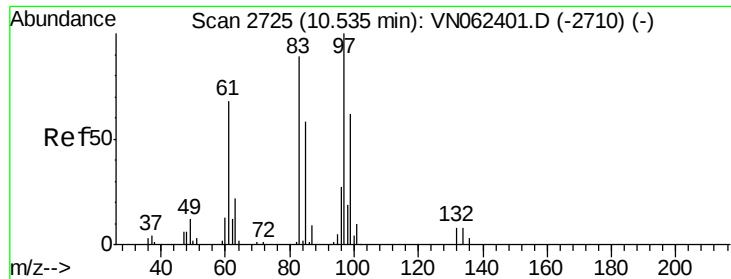
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#54
cis-1,3-Dichloropropene
Concen: 0.522 ug/l
RT: 9.81 min Scan# 2500
Delta R.T. 0.00 min
Lab File: VN062487.D
Acq: 10 Jul 2020 12:42

Tgt Ion: 75 Resp: 2253
Ion Ratio Lower Upper
75 100
77 41.8 24.5 36.7#
39 58.2 43.4 65.0





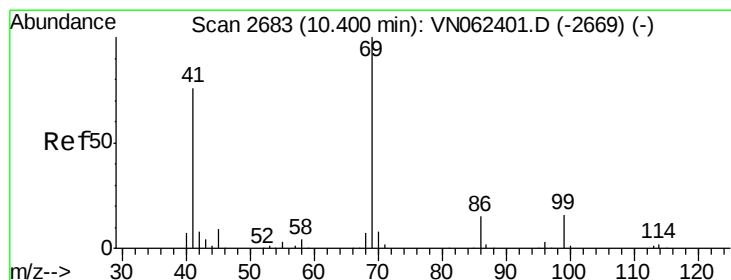
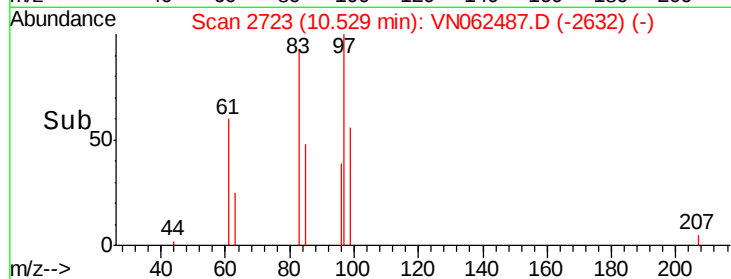
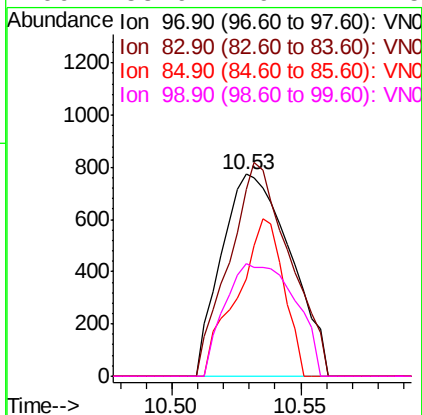
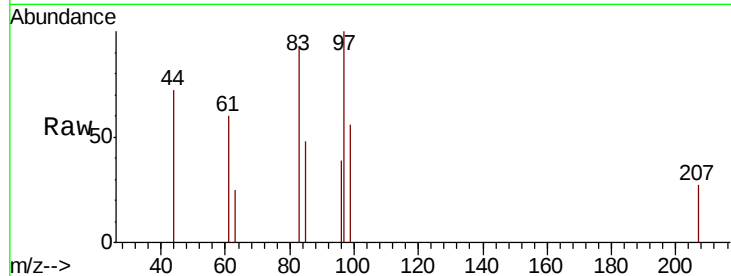
#55
 1,1,2-Trichloroethane
 Concen: 0.636 ug/l
 RT: 10.53 min Scan# 2723
 Delta R.T. -0.01 min
 Lab File: VN062487.D
 Acq: 10 Jul 2020 12:42

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT3-2020DL

Tot Ion:	97	Resp:	1440
Ion	Ratio	Lower	Upper
97	100		
83	92.9	71.0	106.4
85	48.4	46.2	69.4
99	55.6	49.7	74.5

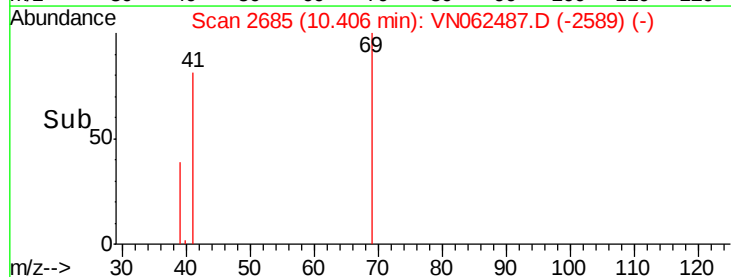
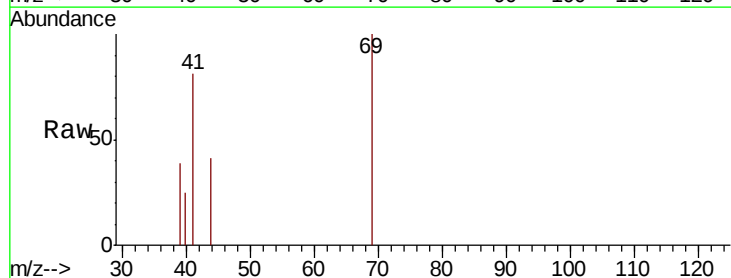
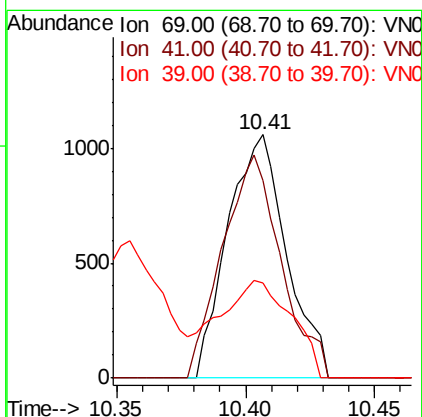
Manual Integrations
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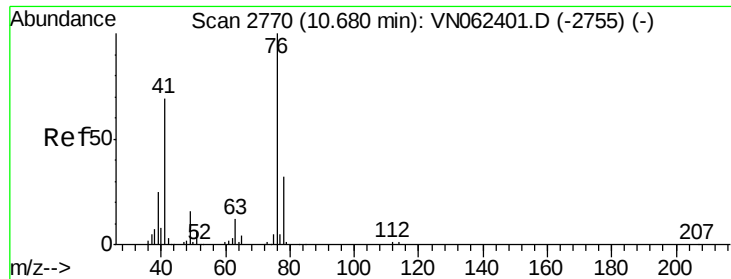
MMDadoda
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#56
 Ethyl methacrylate
 Concen: 0.443 ug/l
 RT: 10.41 min Scan# 2685
 Delta R.T. 0.01 min
 Lab File: VN062487.D
 Acq: 10 Jul 2020 12:42

Tgt Ion:	69	Resp:	1676
Ion	Ratio	Lower	Upper
69	100		
41	91.2	59.7	89.5#
39	48.3	30.6	45.8#





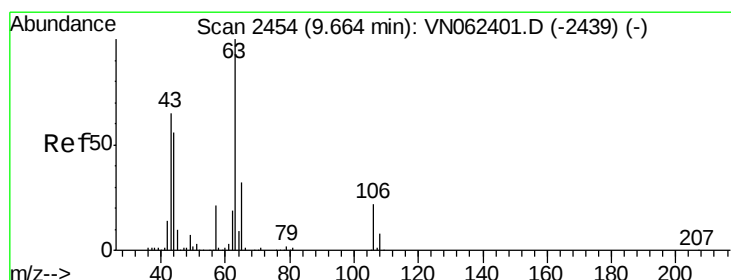
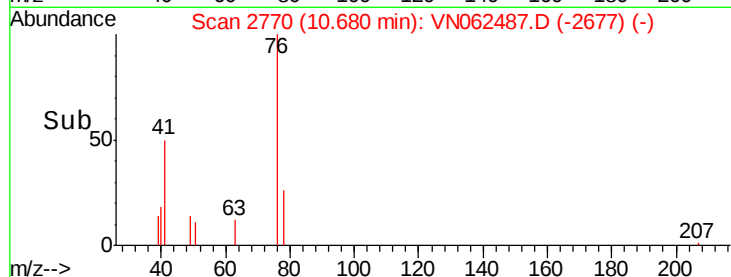
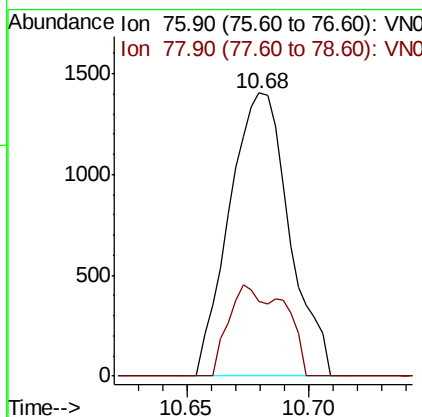
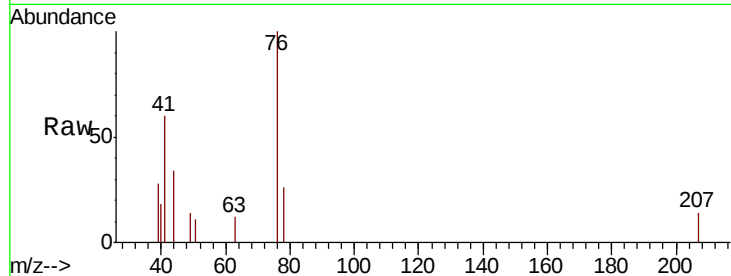
#57
 1,3-Dichloropropane
 Concen: 0.572 ug/l
 RT: 10.68 min Scan# 2770
 Delta R.T. 0.00 min
 Lab File: VN062487.D
 Acq: 10 Jul 2020 12:42

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT3-2020DL

Tot Ion: 76 Resp: 2391
 Ion Ratio Lower Upper
 76 100
 78 30.1 25.6 38.4

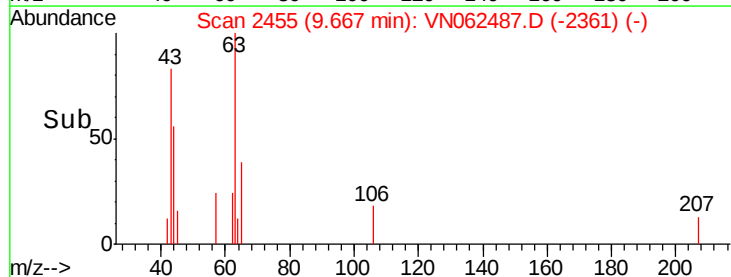
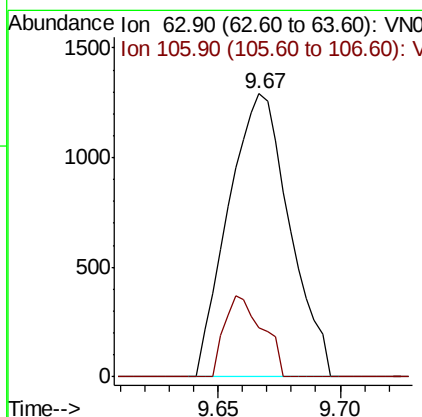
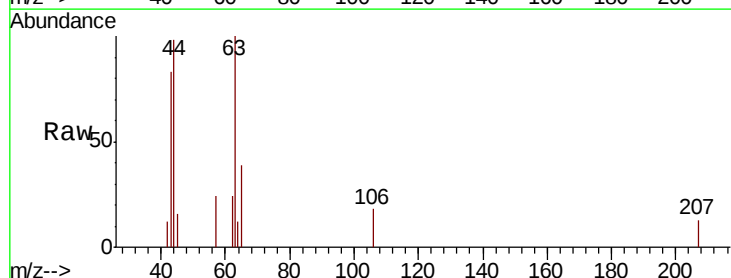
Manual Integrations
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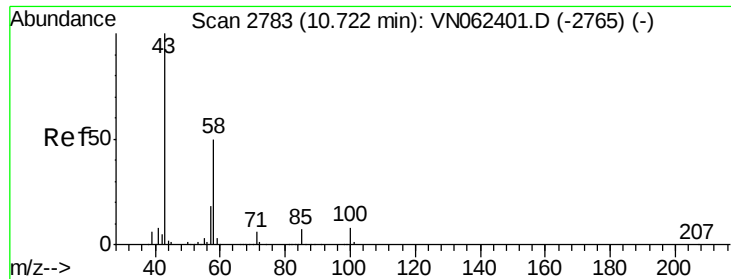
MMDadoda
 7/13/2020 11:19:07 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 1.670 ug/l
 RT: 9.67 min Scan# 2455
 Delta R.T. 0.00 min
 Lab File: VN062487.D
 Acq: 10 Jul 2020 12:42

Tgt Ion: 63 Resp: 2243
 Ion Ratio Lower Upper
 63 100
 106 17.8 17.6 26.4





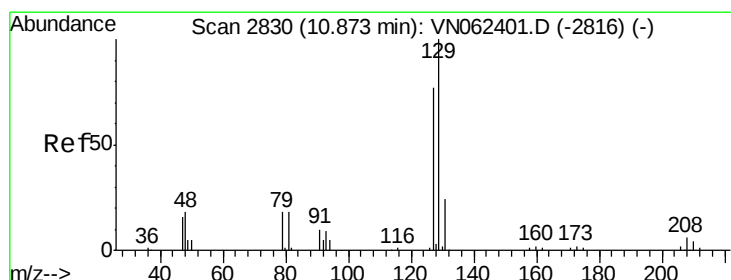
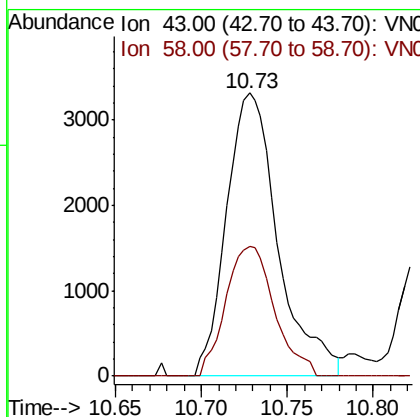
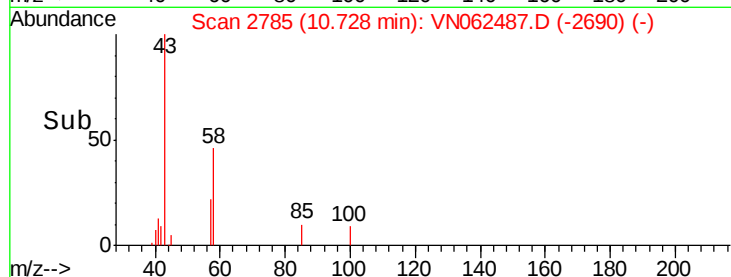
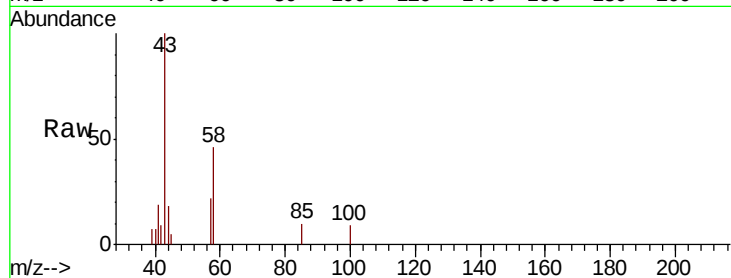
#59
2-Hexanone
Concen: 2.555 ug/l
RT: 10.73 min Scan# 2785
Delta R.T. 0.01 min
Lab File: VN062487.D
Acq: 10 Jul 2020 12:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2020DL

Tot Ion: 43 Resp: 6921
Ion Ratio Lower Upper
43 100
58 43.2 25.1 75.2

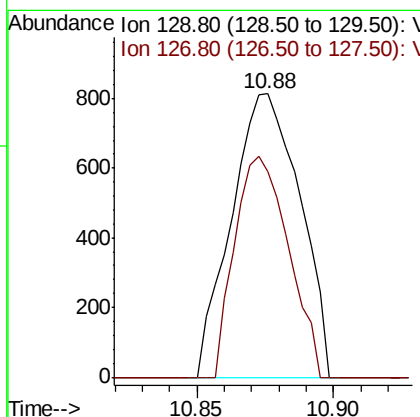
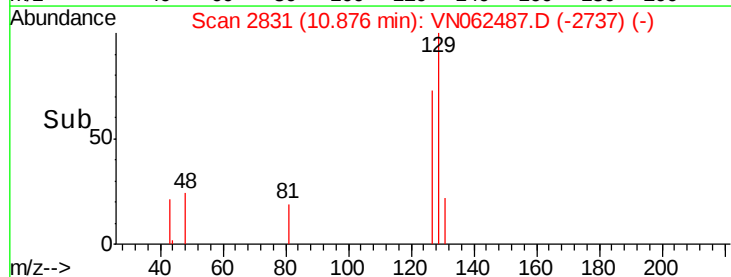
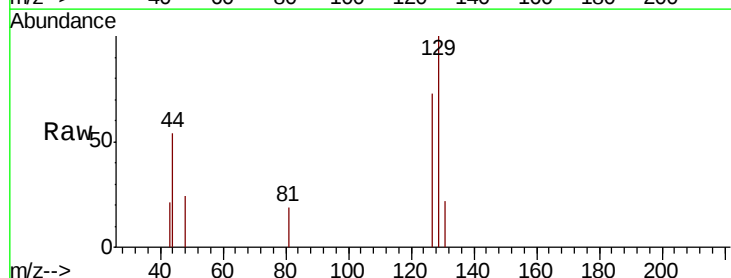
Manual Integrations
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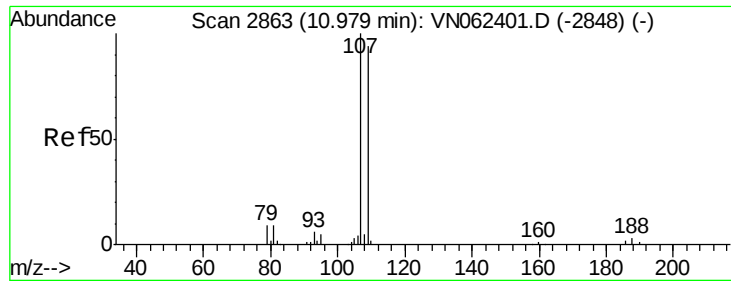
MMDadoda
7/13/2020 11:19:07 AM



#60
Dibromochloromethane
Concen: 0.576 ug/l
RT: 10.88 min Scan# 2831
Delta R.T. 0.00 min
Lab File: VN062487.D
Acq: 10 Jul 2020 12:42

Tgt Ion: 129 Resp: 1414
Ion Ratio Lower Upper
129 100
127 61.4 38.6 115.8





#61

1,2-Dibromoethane

Concen: 0.455 ug/l

RT: 10.98 min Scan# 2863

Delta R.T. 0.00 min

Lab File: VN062487.D

Acq: 10 Jul 2020 12:42

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2020DL

Tot Ion: 107 Resp: 1041

Ion Ratio Lower Upper

107 100

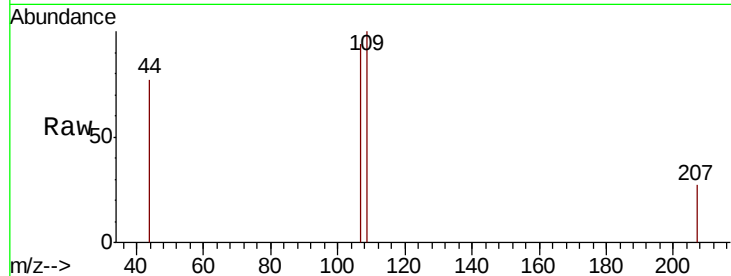
109 103.8 75.6 113.4

Manual Integrations

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

10.98

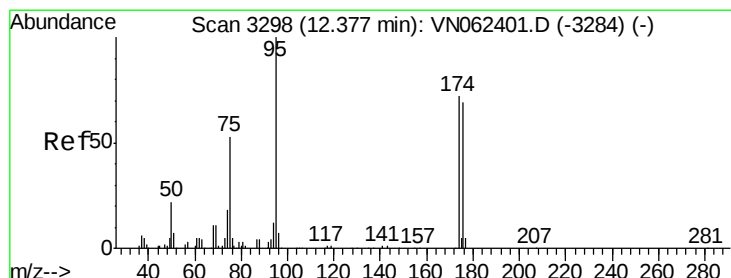
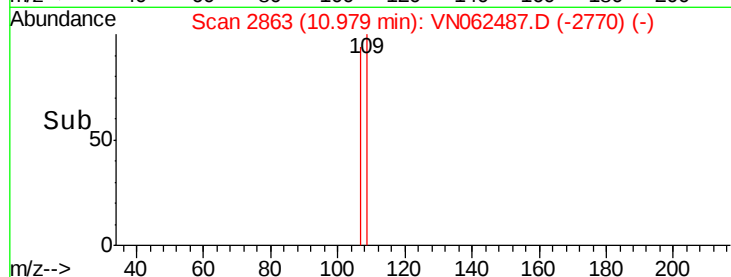
600

400

200

0

Time-->



#62

4-Bromofluorobenzene

Concen: 48.247 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN062487.D

Acq: 10 Jul 2020 12:42

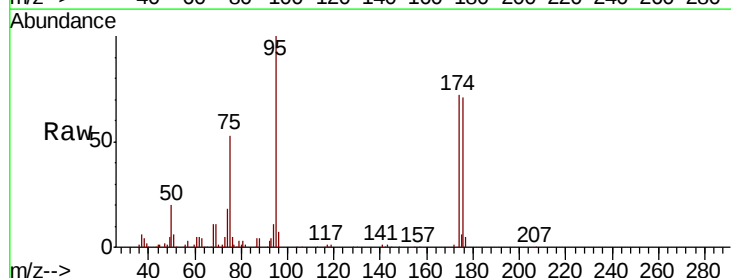
Tgt Ion: 95 Resp: 144402

Ion Ratio Lower Upper

95 100

174 72.5 0.0 141.6

176 69.9 0.0 137.2



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.38

100000

80000

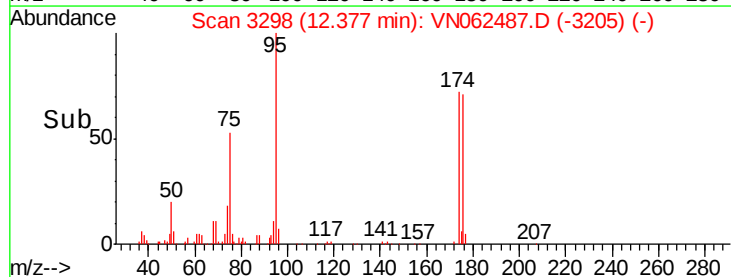
60000

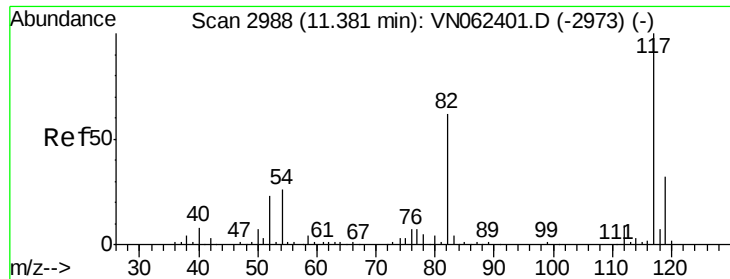
40000

20000

0

Time-->





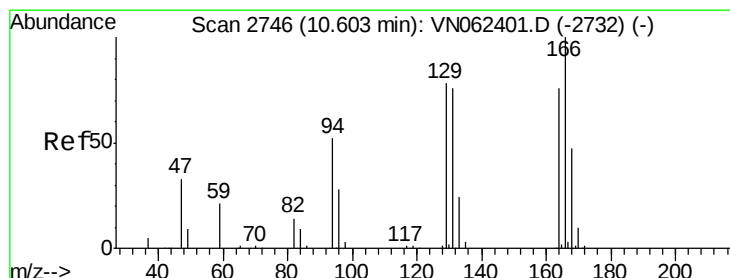
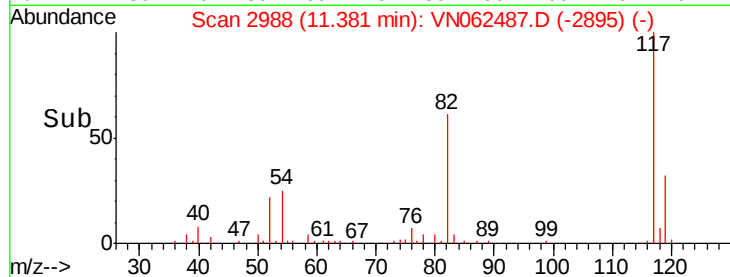
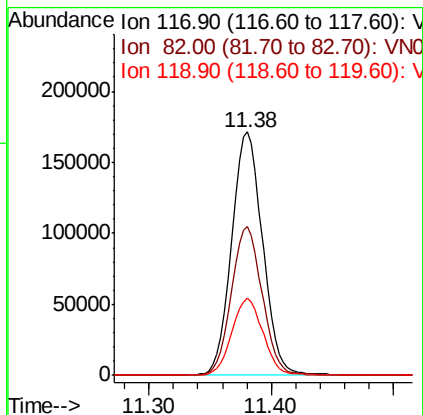
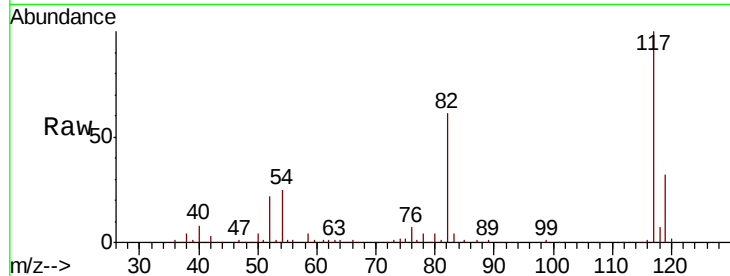
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN062487.D
Acq: 10 Jul 2020 12:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2020DL

Tot Ion	Ratio	Resp	Lower	Upper
117	100	302748		
82	61.0	49.6	74.4	
119	31.5	25.4	38.0	

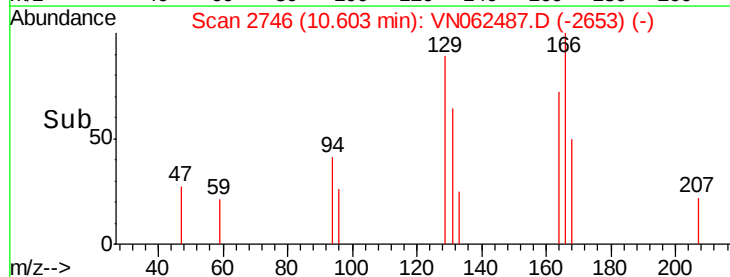
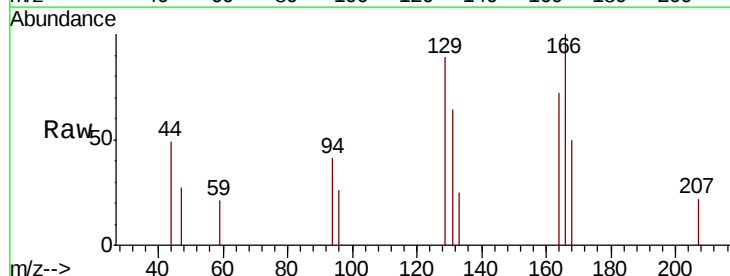
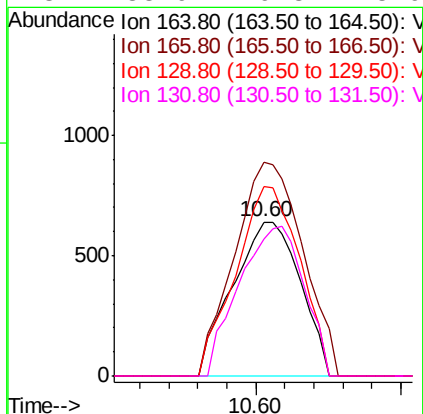
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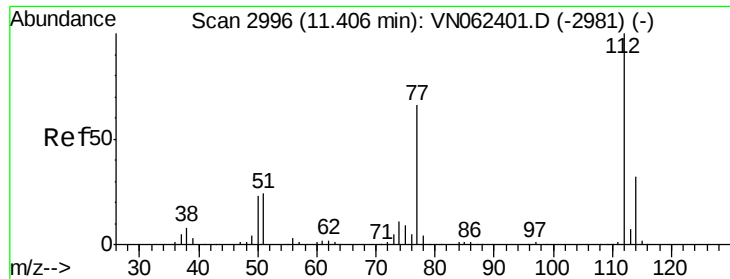
MMDadoda
7/13/2020 11:19:07 AM



#64
Tetrachloroethene
Concen: 0.576 ug/l
RT: 10.60 min Scan# 2746
Delta R.T. 0.00 min
Lab File: VN062487.D
Acq: 10 Jul 2020 12:42

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	1034		
166	139.0	104.9	157.3	
129	123.0	81.8	122.6	
131	88.9	79.3	118.9	





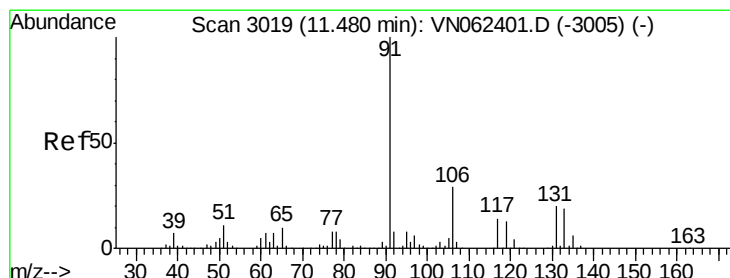
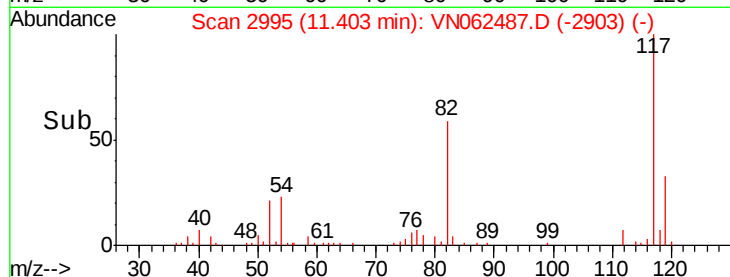
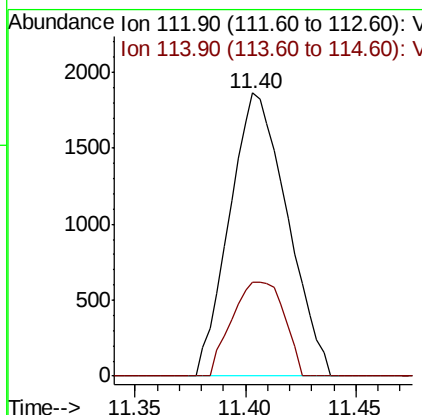
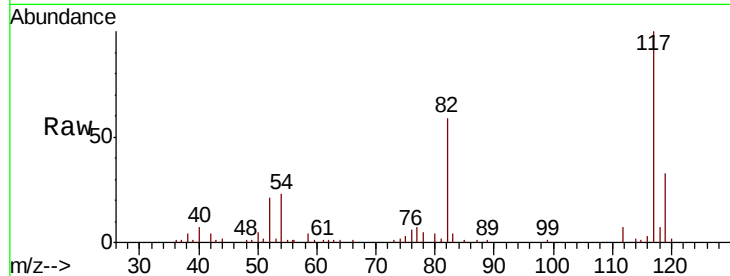
#65
Chlorobenzene
Concen: 0.576 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN062487.D
Acq: 10 Jul 2020 12:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2020DL

Tot Ion:112 Resp: 3388
Ion Ratio Lower Upper
112 100
114 33.0 25.9 38.9

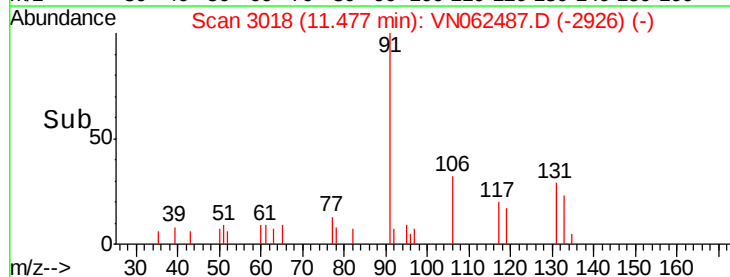
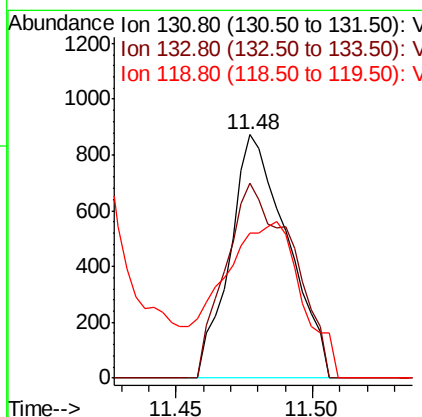
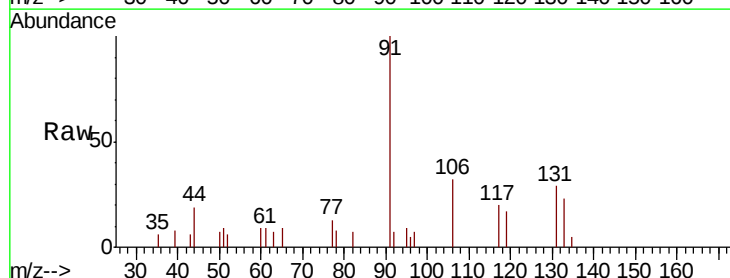
Manual Integrations
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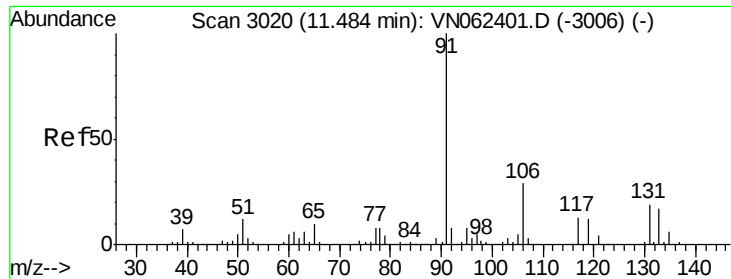
MMDadoda
7/13/2020 11:19:07 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 0.589 ug/l
RT: 11.48 min Scan# 3018
Delta R.T. -0.00 min
Lab File: VN062487.D
Acq: 10 Jul 2020 12:42

Tgt Ion:131 Resp: 1279
Ion Ratio Lower Upper
131 100
133 93.3 46.9 140.8
119 0.0 33.2 99.6#





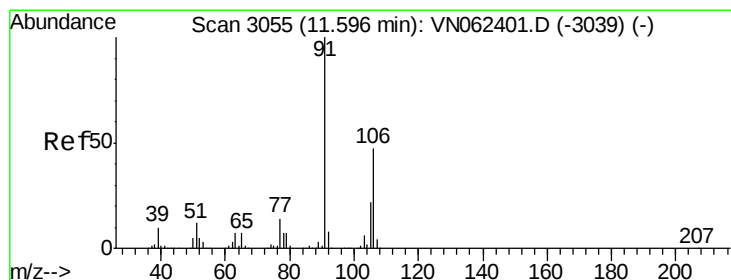
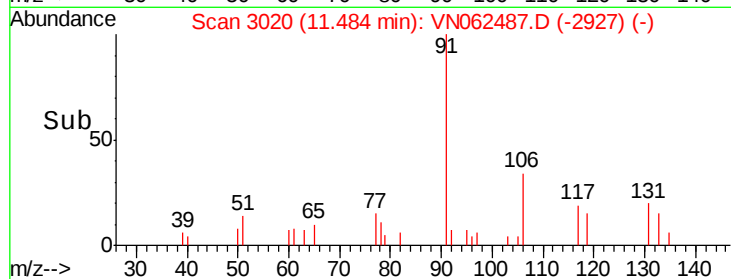
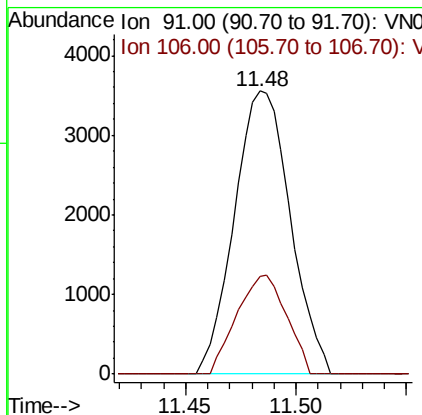
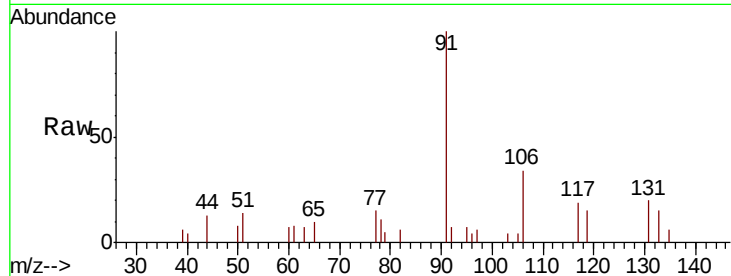
#67
Ethyl Benzene
Concen: 0.567 ug/l
RT: 11.48 min Scan# 3020
Delta R.T. 0.00 min
Lab File: VN062487.D
Acq: 10 Jul 2020 12:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2020DL

Tot Ion: 91 Resp: 6261
Ion Ratio Lower Upper
91 100
106 34.5 23.4 35.2

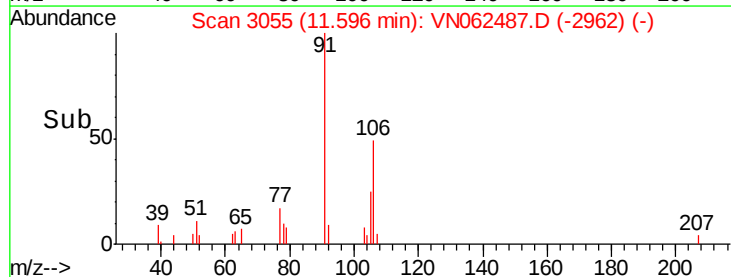
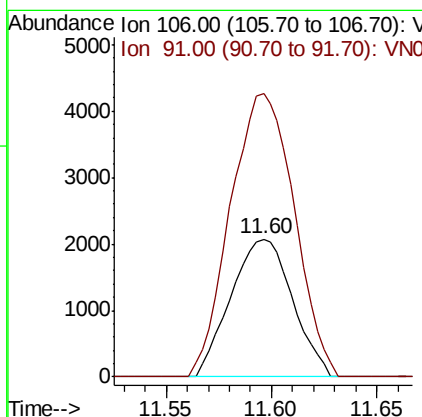
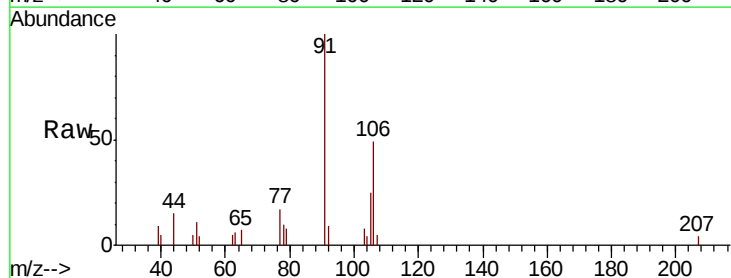
Manual Integrations
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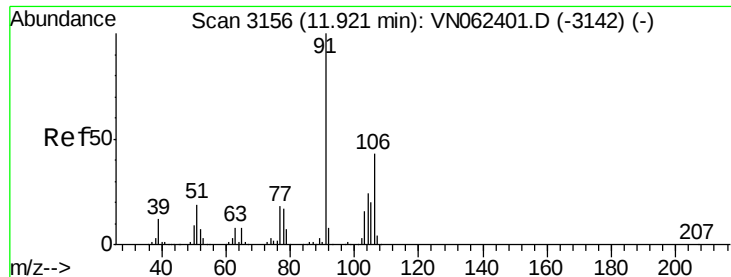
MMDadoda
7/13/2020 11:19:07 AM



#68
m/p-Xylenes
Concen: 1.077 ug/l
RT: 11.60 min Scan# 3055
Delta R.T. 0.00 min
Lab File: VN062487.D
Acq: 10 Jul 2020 12:42

Tgt Ion: 106 Resp: 4212
Ion Ratio Lower Upper
106 100
91 213.0 172.4 258.6





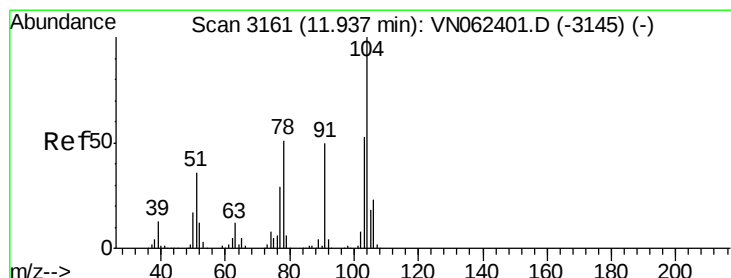
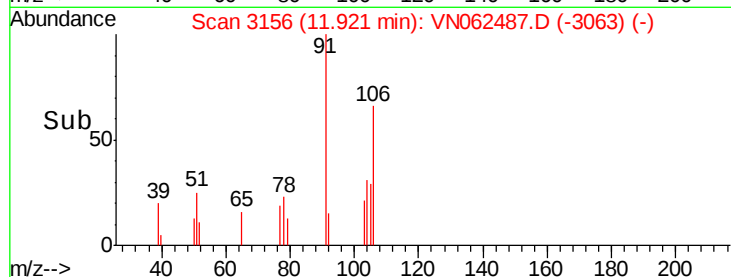
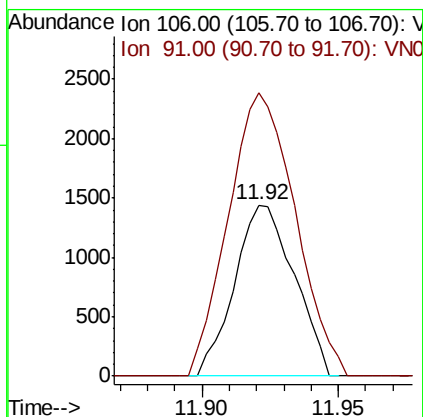
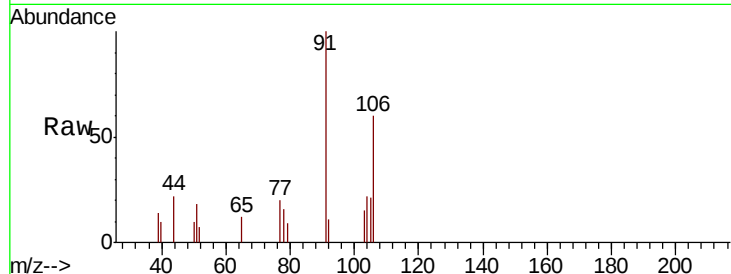
#69
o-Xylene
Concen: 0.574 ug/l
RT: 11.92 min Scan# 3156
Delta R.T. 0.00 min
Lab File: VN062487.D
Acq: 10 Jul 2020 12:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2020DL

Tot Ion:106 Resp: 2187
Ion Ratio Lower Upper
106 100
91 185.6 113.8 341.4

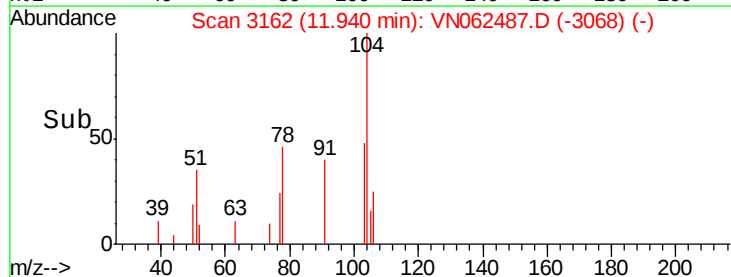
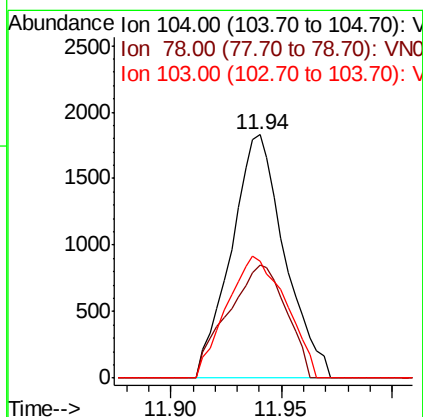
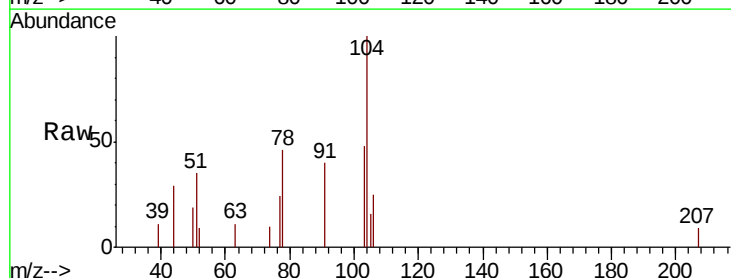
Manual Integrations
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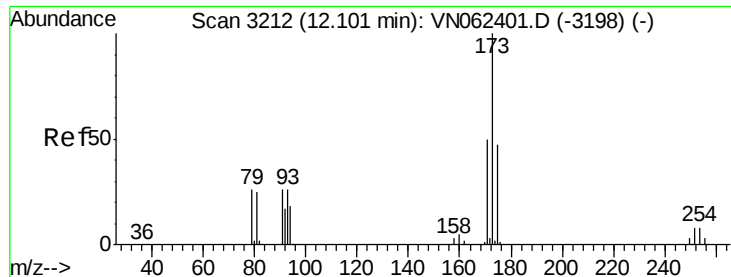
MMDadoda
7/13/2020 11:19:07 AM



#70
Styrene
Concen: 0.487 ug/l
RT: 11.94 min Scan# 3162
Delta R.T. 0.00 min
Lab File: VN062487.D
Acq: 10 Jul 2020 12:42

Tgt Ion:104 Resp: 3064
Ion Ratio Lower Upper
104 100
78 50.7 44.2 66.4
103 55.6 44.4 66.6





#71

Bromoform

Concen: 0.495 ug/l

RT: 12.10 min Scan# 3212

Delta R.T. 0.00 min

Lab File: VN062487.D

Acq: 10 Jul 2020 12:42

Instrument :

MSVOA_N

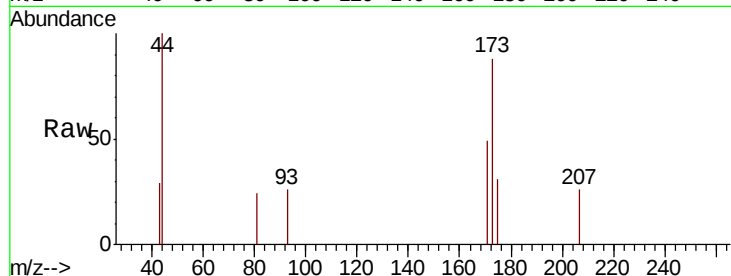
ClientSampleId :

MDL-WATER-03-QT3-2020DL

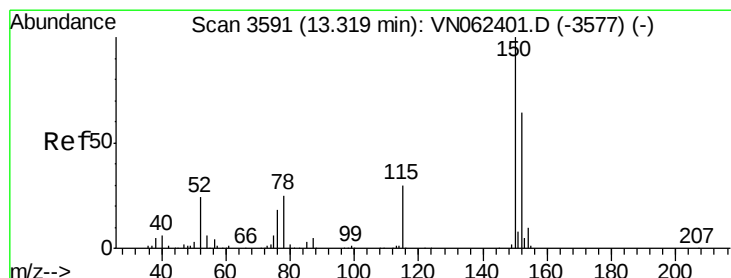
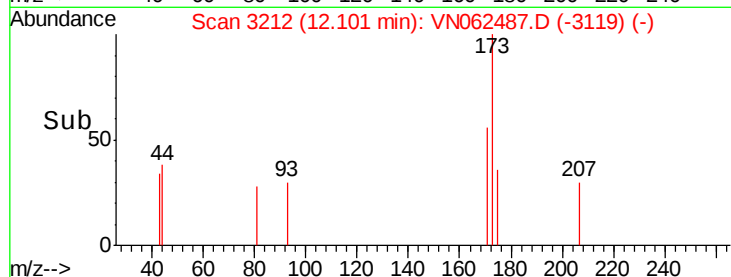
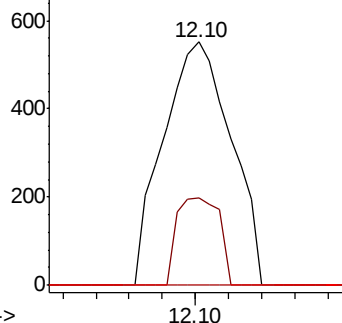
Tot Ion	Ratio	Lower	Upper
173	100		
175	0.0	23.7	71.1#
254	0.0	0.0	0.0

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Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

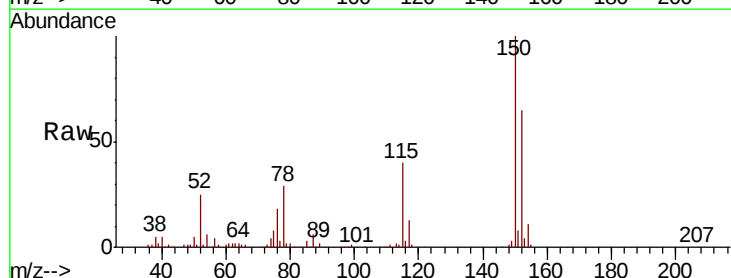
RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

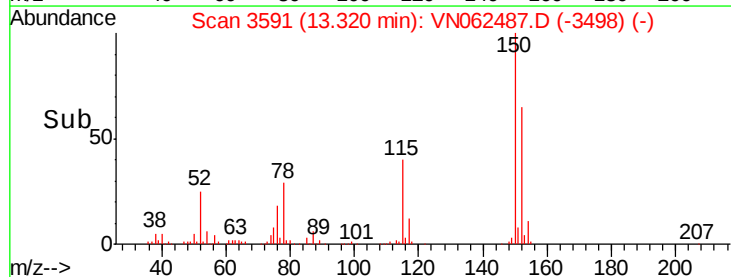
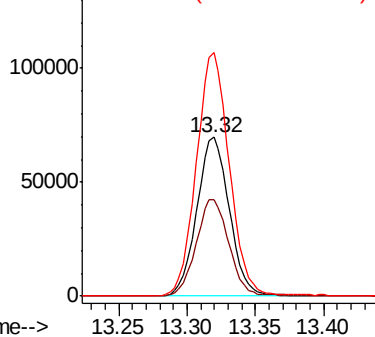
Lab File: VN062487.D

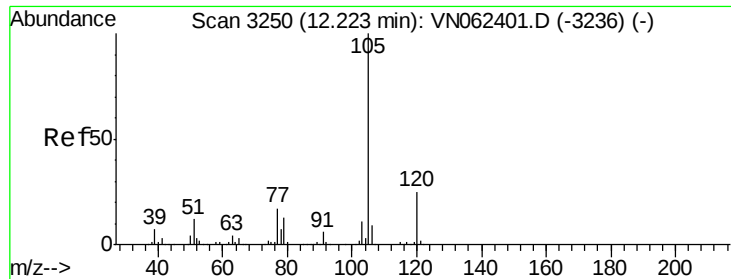
Acq: 10 Jul 2020 12:42

Tgt Ion	Ratio	Lower	Upper
152	100		
115	61.2	31.4	94.2
150	155.8	0.0	347.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





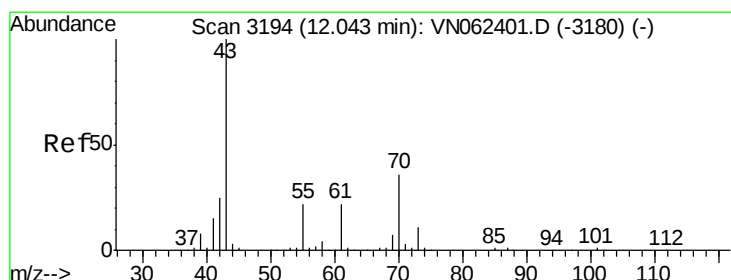
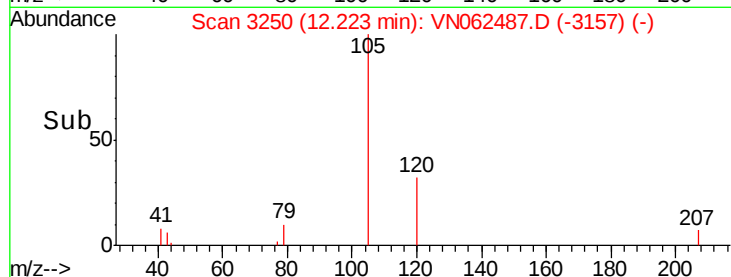
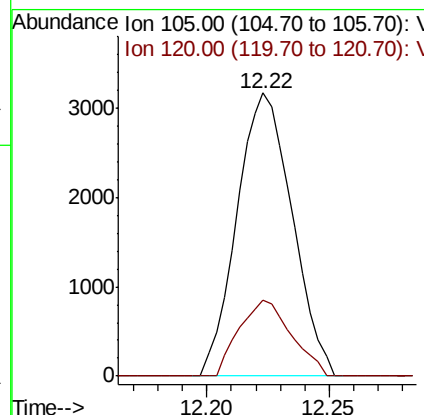
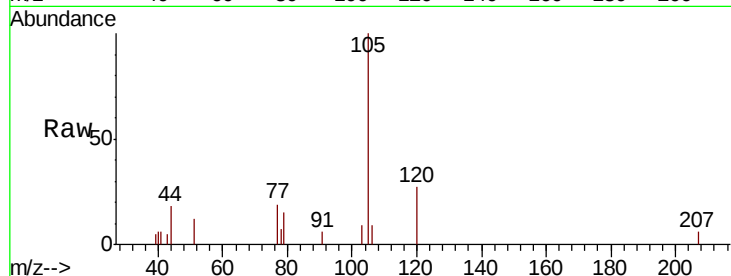
#73
Isopropylbenzene
Concen: 0.556 ug/l
RT: 12.22 min Scan# 3250
Delta R.T. 0.00 min
Lab File: VN062487.D
Acq: 10 Jul 2020 12:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2020DL

Tot Ion	Ratio	Lower	Upper
105	100		
120	25.4	12.7	38.1

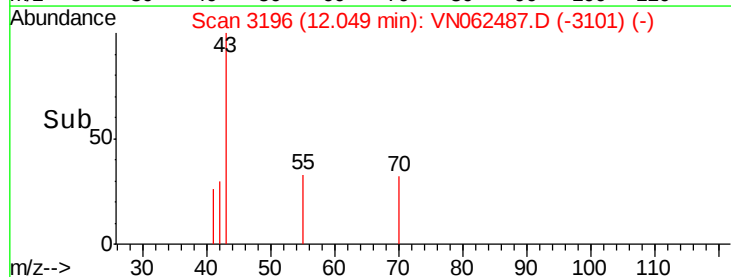
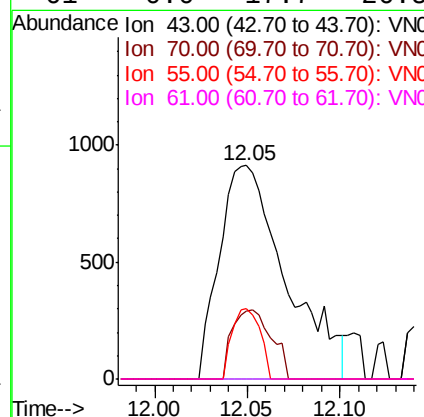
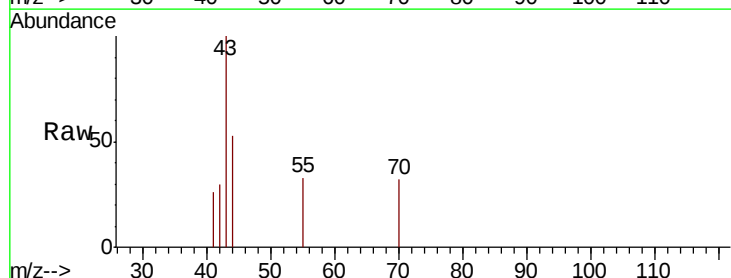
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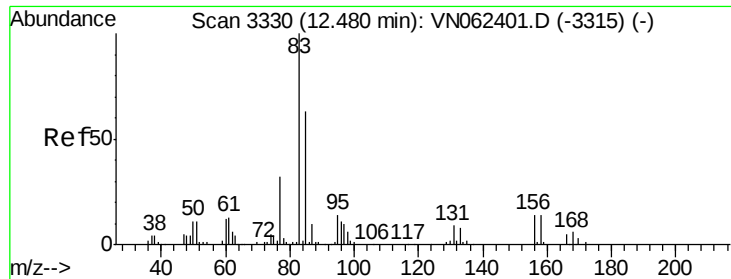
MMDadoda
7/13/2020 11:19:07 AM



#74
N-ethyl acetate
Concen: 0.524 ug/l
RT: 12.05 min Scan# 3196
Delta R.T. 0.01 min
Lab File: VN062487.D
Acq: 10 Jul 2020 12:42

Tgt Ion	Ratio	Lower	Upper
43	100		
70	19.1	30.0	45.0#
55	13.8	18.2	27.4#
61	0.0	17.7	26.5#





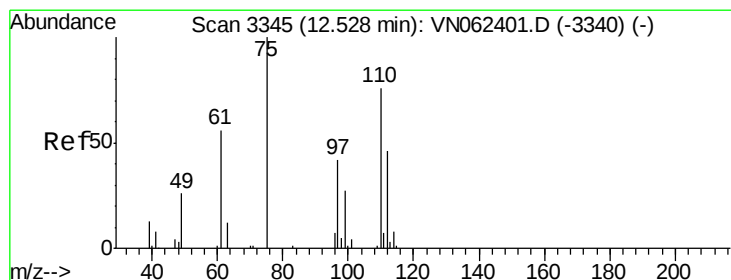
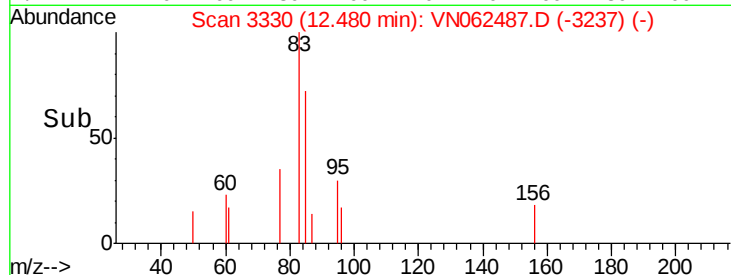
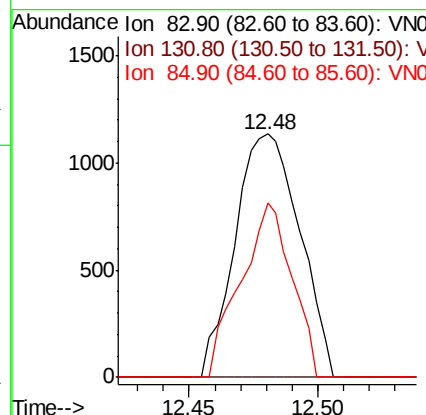
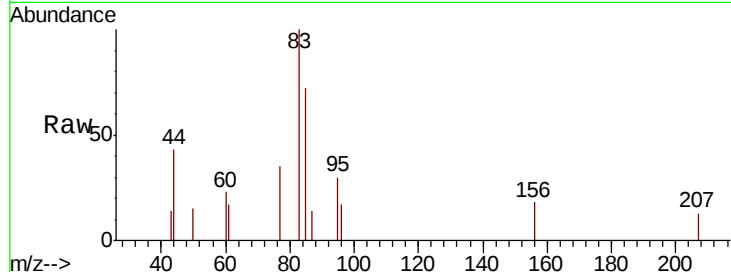
#75
 1,1,2,2-Tetrachloroethane
 Concen: 0.660 ug/l
 RT: 12.48 min Scan# 3330
 Delta R.T. 0.00 min
 Lab File: VN062487.D
 Acq: 10 Jul 2020 12:42

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT3-2020DL

Tot Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.5	13.5#
85	56.9	31.9	95.9

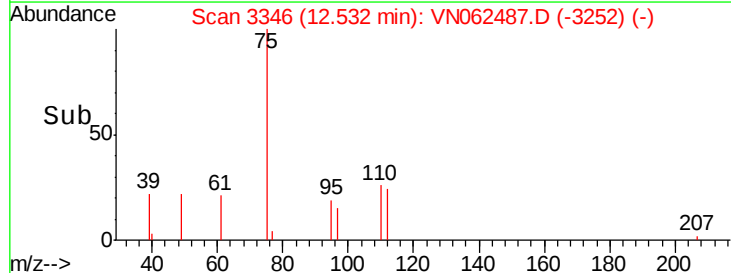
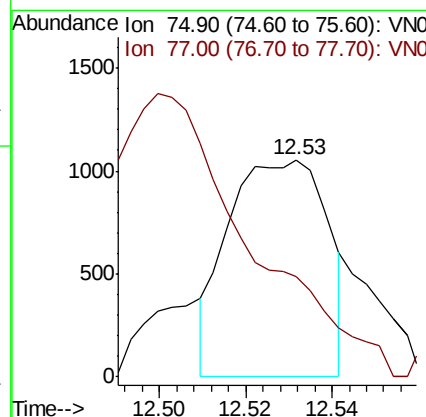
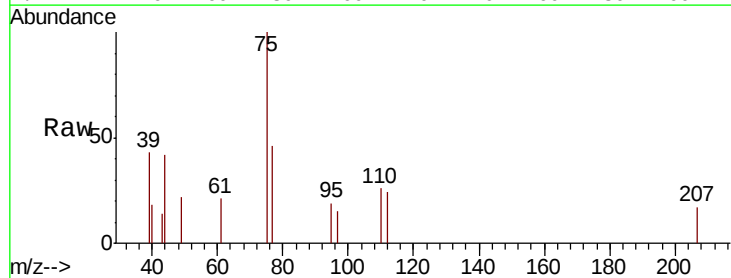
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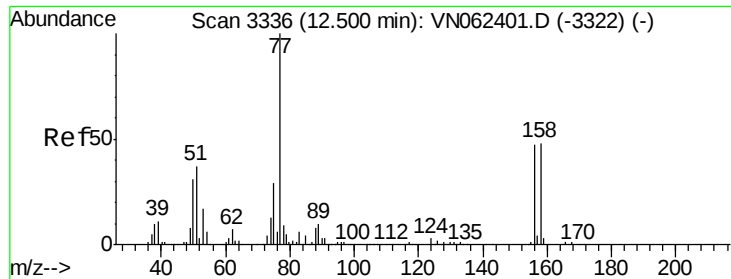
MMDadoda
 7/13/2020 11:19:07 AM



#76
 1,2,3-Trichloropropane
 Concen: 0.592 ug/l m
 RT: 12.53 min Scan# 3346
 Delta R.T. 0.00 min
 Lab File: VN062487.D
 Acq: 10 Jul 2020 12:42

Tgt Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 0.704 ug/l

RT: 12.50 min Scan# 3335

Delta R.T. -0.00 min

Lab File: VN062487.D

Acq: 10 Jul 2020 12:42

Instrument :

MSVOA_N

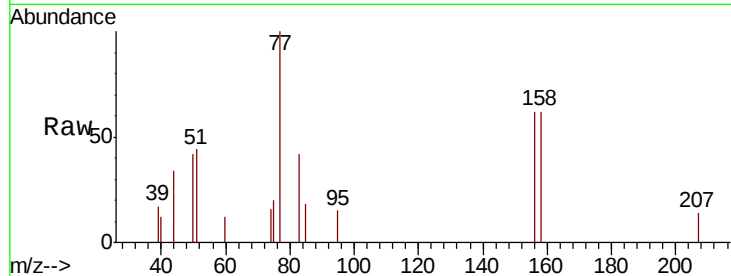
ClientSampleId :

MDL-WATER-03-QT3-2020DL

Tot Ion:	156	Resp:	1429
Ion	Ratio	Lower	Upper
156	100		
77	227.8	126.4	379.3
158	98.2	49.8	149.4

Manual Integrations
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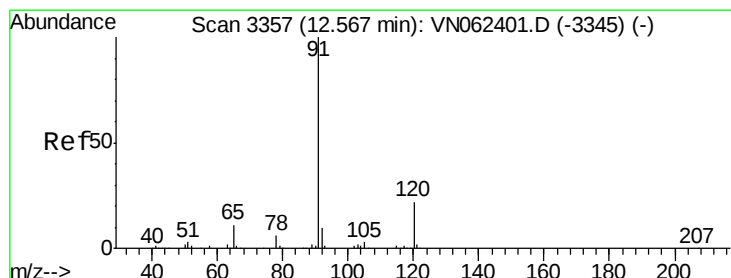
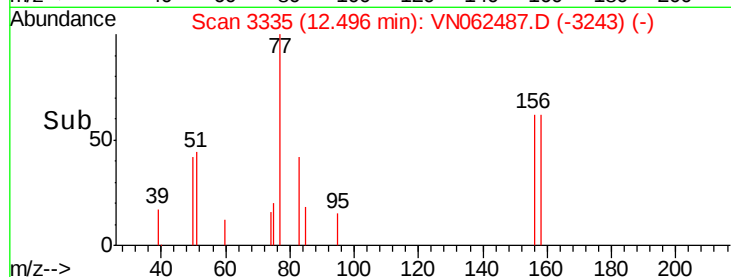
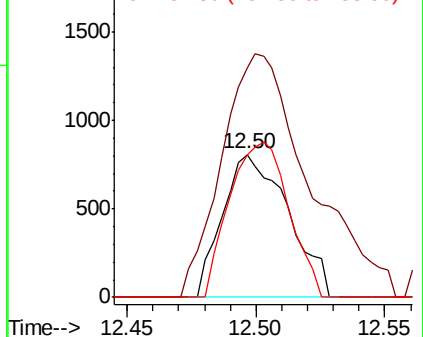
MMDadoda
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 0.602 ug/l

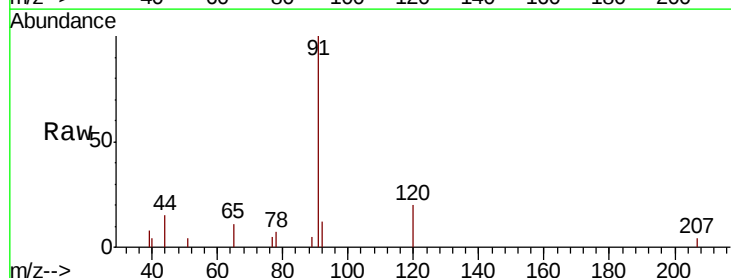
RT: 12.57 min Scan# 3357

Delta R.T. 0.00 min

Lab File: VN062487.D

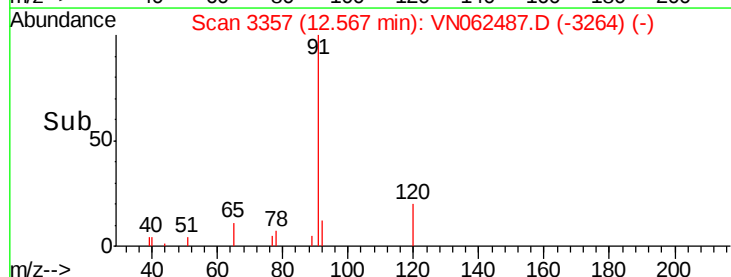
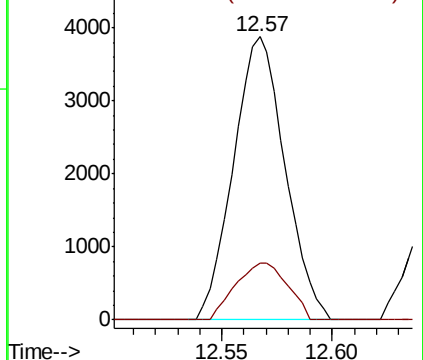
Acq: 10 Jul 2020 12:42

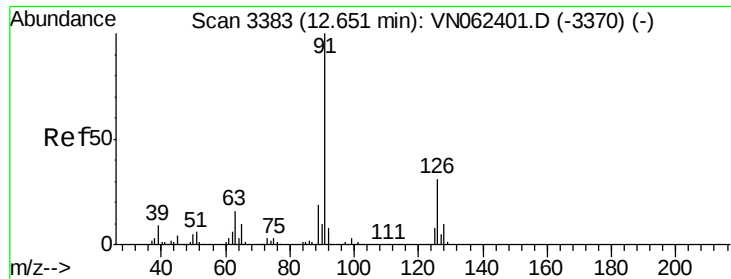
Tgt Ion:	91	Resp:	6277
Ion	Ratio	Lower	Upper
91	100		
120	20.4	10.7	32.1



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





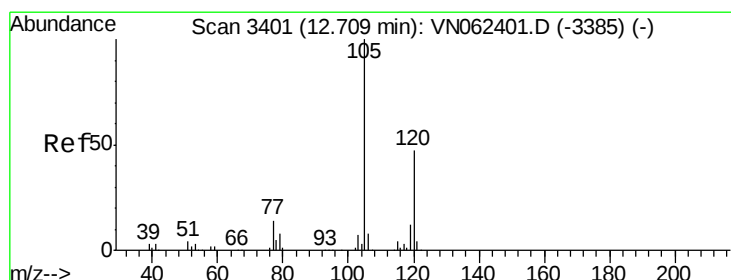
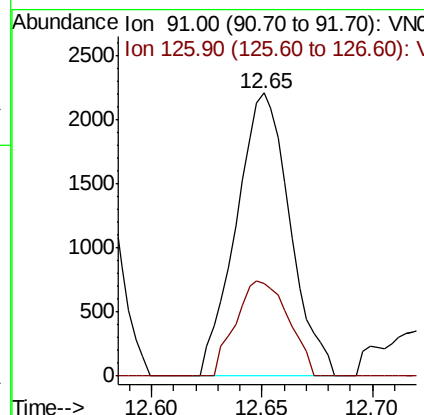
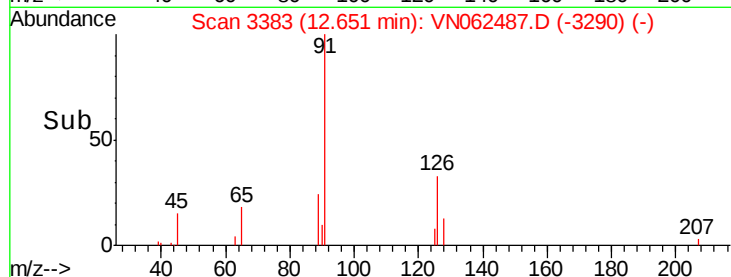
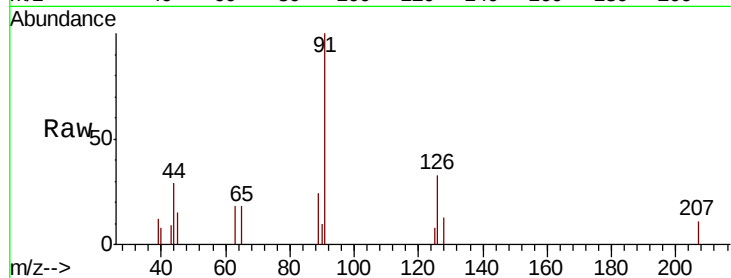
#79
 2-Chlorotoluene
 Concen: 0.591 ug/l
 RT: 12.65 min Scan# 3383
 Delta R.T. 0.00 min
 Lab File: VN062487.D
 Acq: 10 Jul 2020 12:42

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT3-2020DL

Tot Ion: 91 Resp: 3741
 Ion Ratio Lower Upper
 91 100
 126 32.9 15.6 46.7

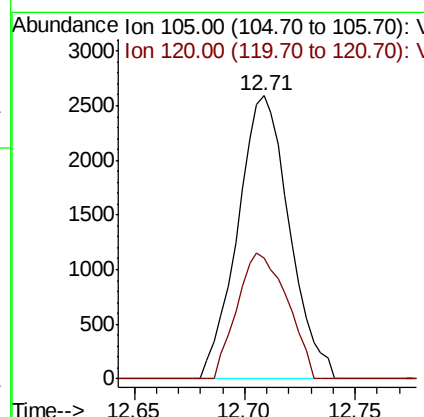
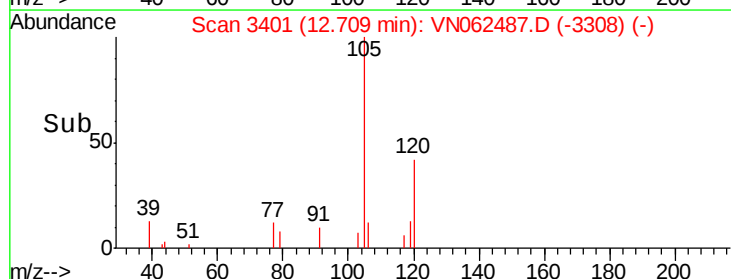
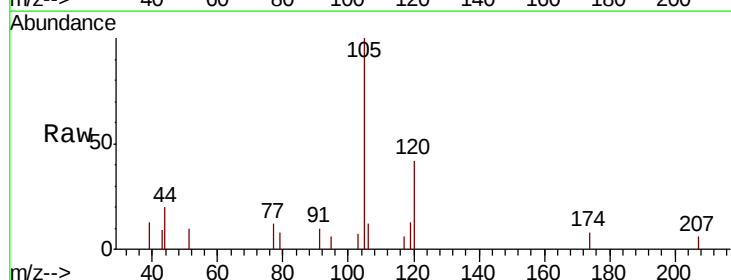
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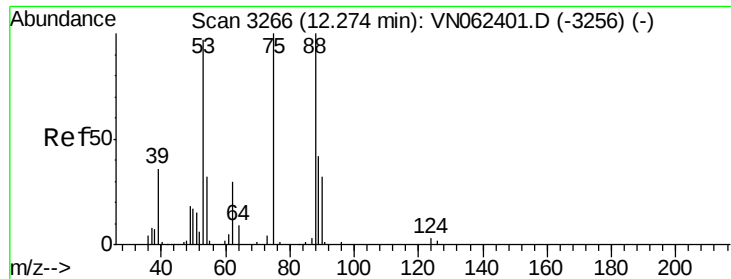
MMDadoda
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#80
 1,3,5-Trimethylbenzene
 Concen: 0.577 ug/l
 RT: 12.71 min Scan# 3401
 Delta R.T. 0.00 min
 Lab File: VN062487.D
 Acq: 10 Jul 2020 12:42

Tgt Ion: 105 Resp: 4226
 Ion Ratio Lower Upper
 105 100
 120 43.0 23.4 70.2





#81

trans-1,4-Dichloro-2-butene

Concen: 0.432 ug/l m

RT: 12.28 min Scan# 3267

Delta R.T. 0.00 min

Lab File: VN062487.D

Acq: 10 Jul 2020 12:42

Instrument :

MSVOA_N

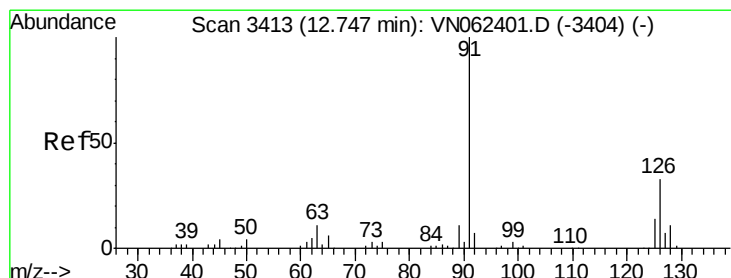
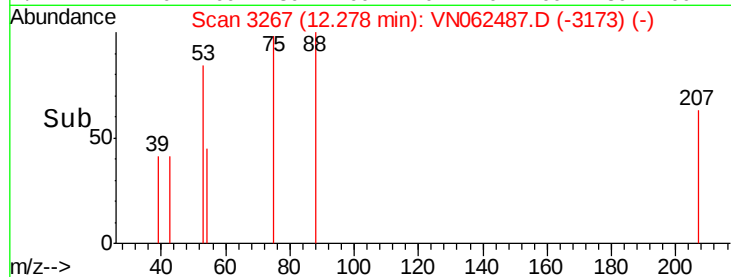
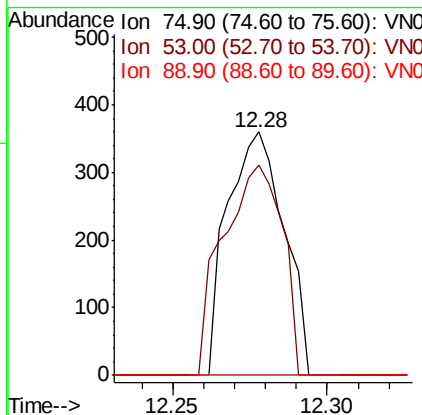
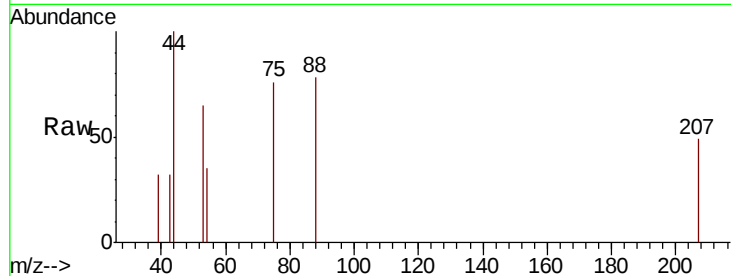
ClientSampleId :

MDL-WATER-03-QT3-2020DL

Tot Ion:	75	Resp:	457
Ion Ratio	Lower	Upper	
75	100		
53	0.0	79.2	118.8#
89	0.0	34.6	52.0#

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#82

4-Chlorotoluene

Concen: 0.560 ug/l m

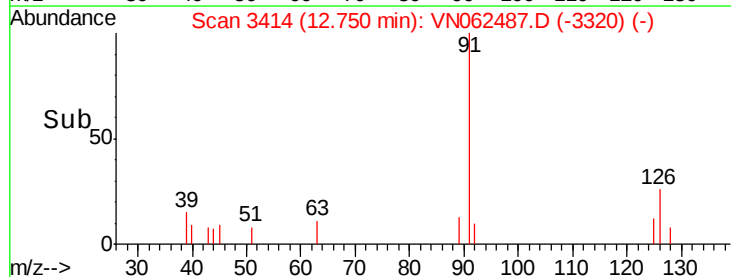
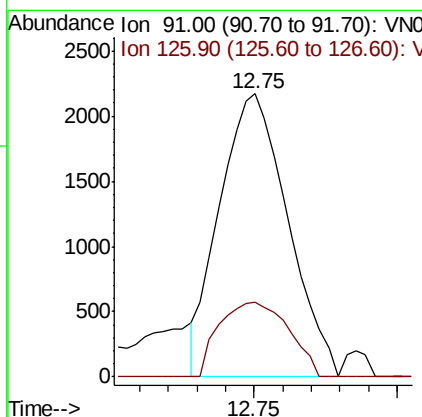
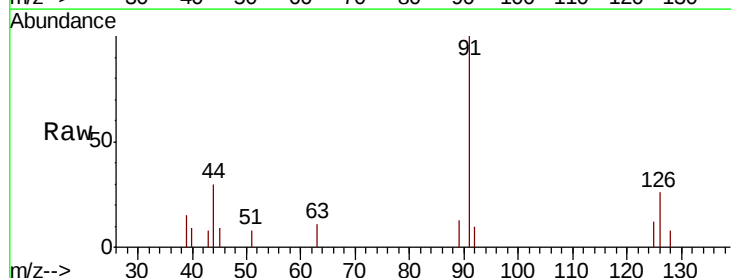
RT: 12.75 min Scan# 3414

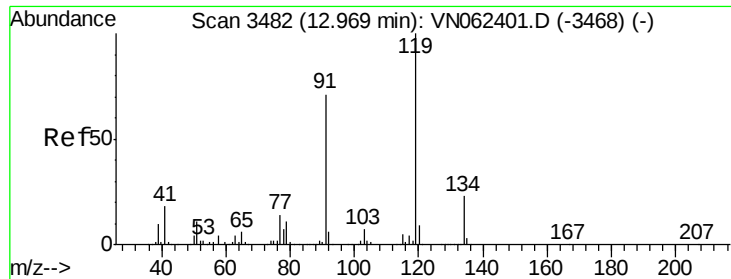
Delta R.T. 0.00 min

Lab File: VN062487.D

Acq: 10 Jul 2020 12:42

Tgt Ion:	91	Resp:	3602
Ion Ratio	Lower	Upper	
91	100		
126	26.8	15.2	45.6





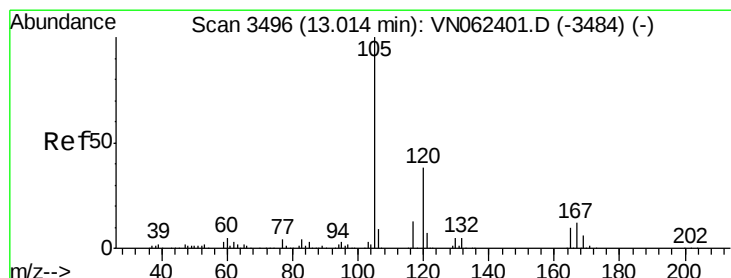
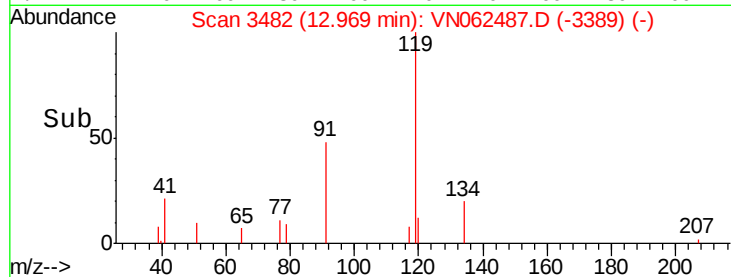
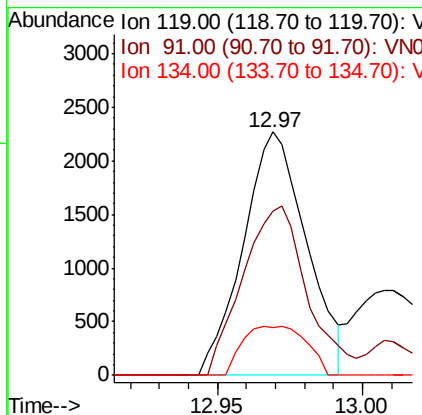
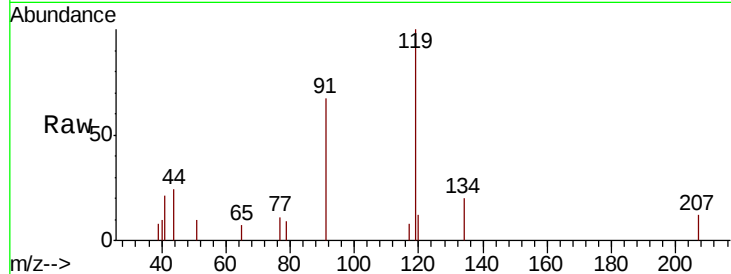
#83
 tert-Butylbenzene
 Concen: 0.554 ug/l
 RT: 12.97 min Scan# 3482
 Delta R.T. 0.00 min
 Lab File: VN062487.D
 Acq: 10 Jul 2020 12:42

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT3-2020DL

Tot Ion	Ratio	Lower	Upper
119	100		
91	70.9	34.8	104.3
134	20.3	11.7	35.0

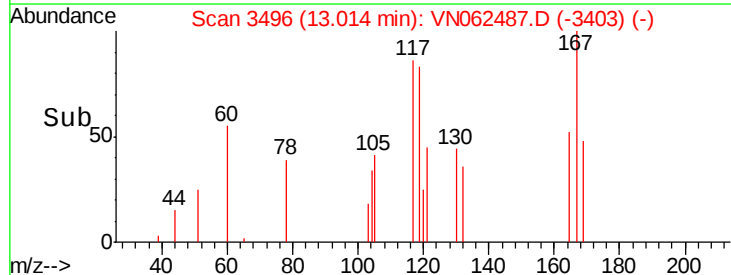
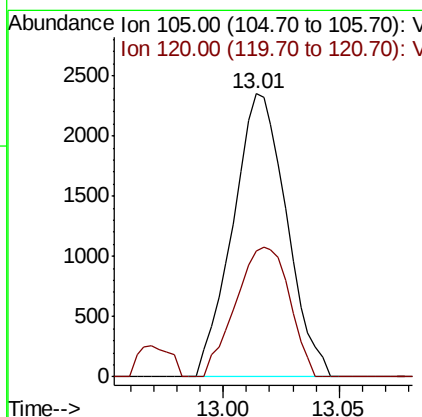
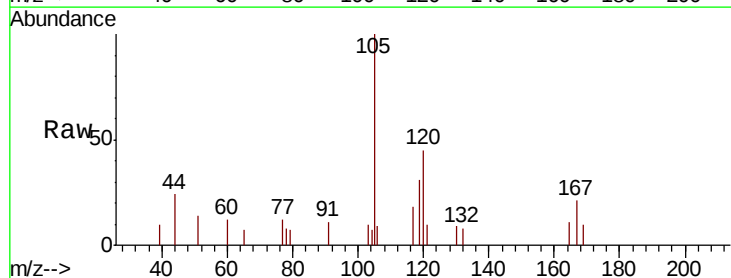
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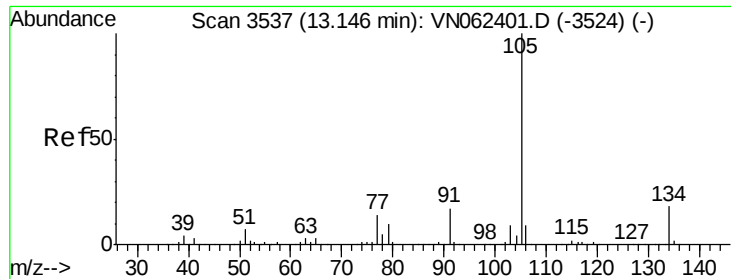
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 7/13/2020 11:19:07 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 0.519 ug/l
 RT: 13.01 min Scan# 3496
 Delta R.T. 0.00 min
 Lab File: VN062487.D
 Acq: 10 Jul 2020 12:42

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.9	21.6	64.8





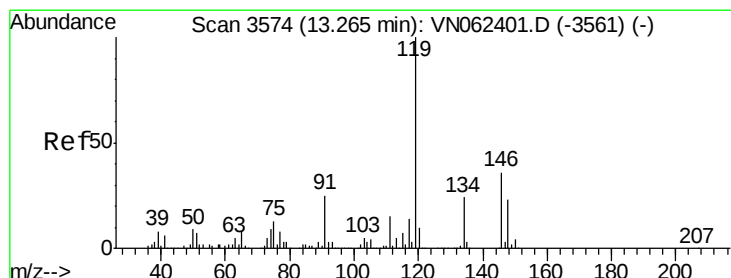
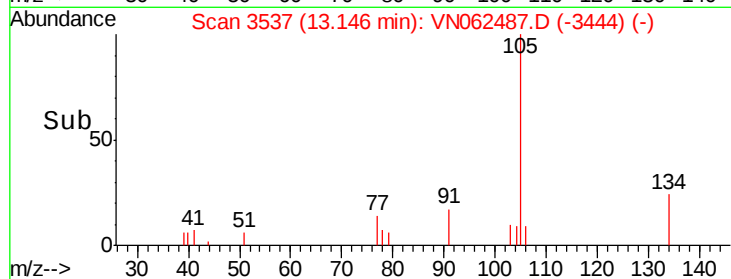
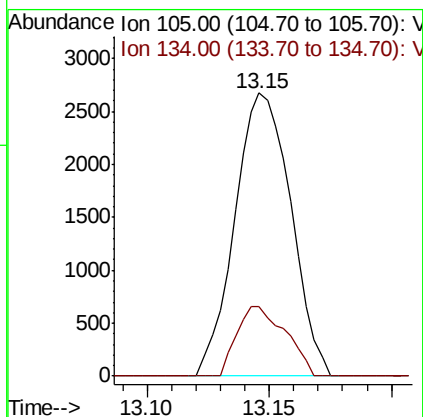
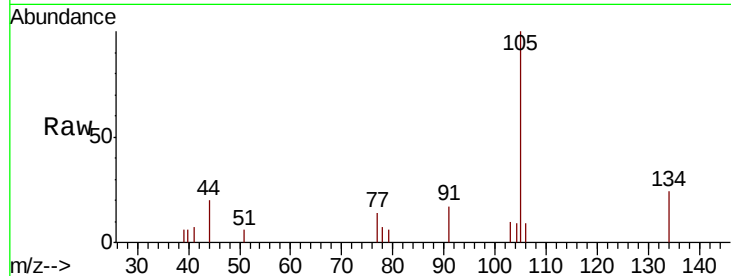
#85
 sec-Butylbenzene
 Concen: 0.517 ug/l
 RT: 13.15 min Scan# 3537
 Delta R.T. 0.00 min
 Lab File: VN062487.D
 Acq: 10 Jul 2020 12:42

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT3-2020DL

Tot Ion:105 Resp: 4261
 Ion Ratio Lower Upper
 105 100
 134 21.4 9.3 28.0

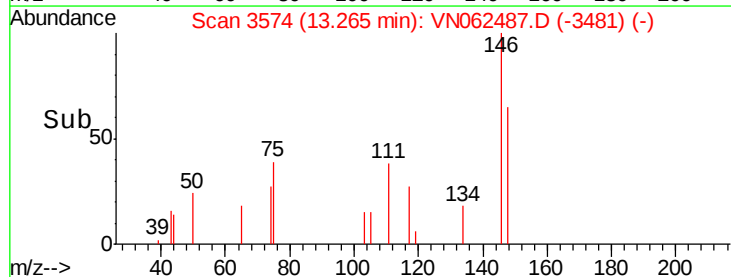
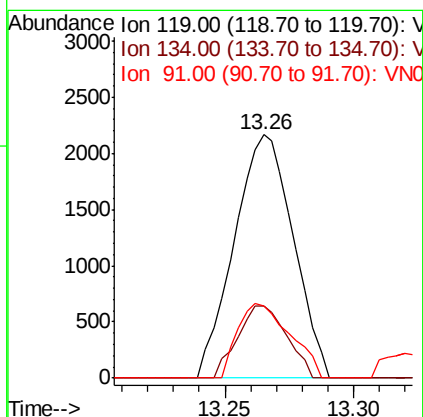
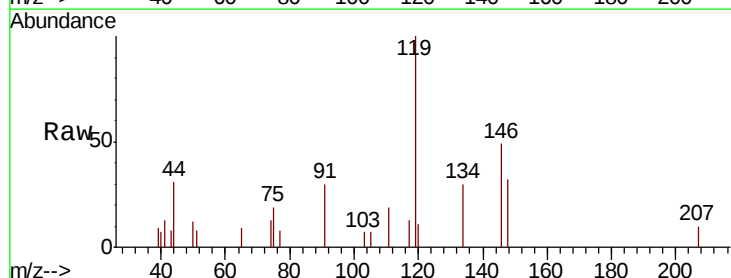
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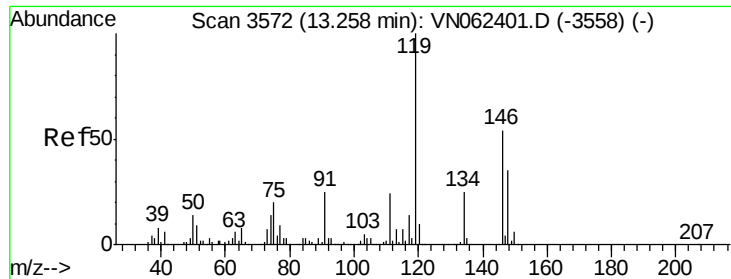
MMDadoda
 7/13/2020 11:19:07 AM



#86
 p-Isopropyltoluene
 Concen: 0.486 ug/l
 RT: 13.26 min Scan# 3574
 Delta R.T. 0.00 min
 Lab File: VN062487.D
 Acq: 10 Jul 2020 12:42

Tgt Ion:119 Resp: 3455
 Ion Ratio Lower Upper
 119 100
 134 24.7 12.4 37.0
 91 27.2 12.4 37.4





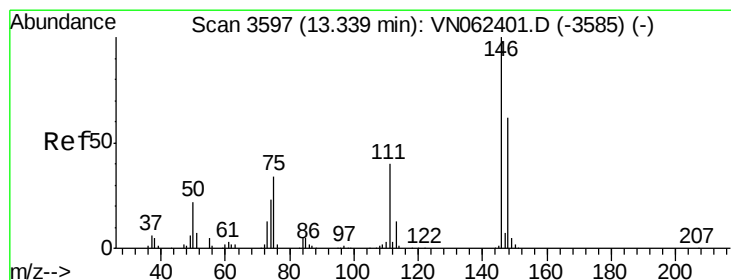
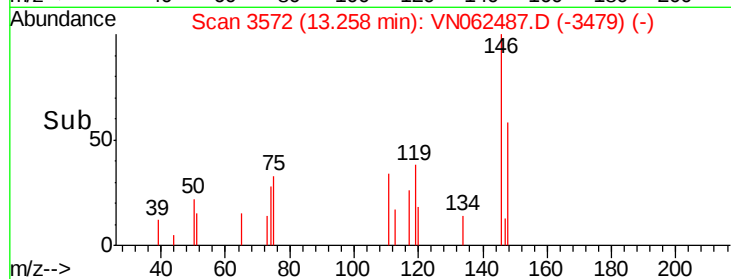
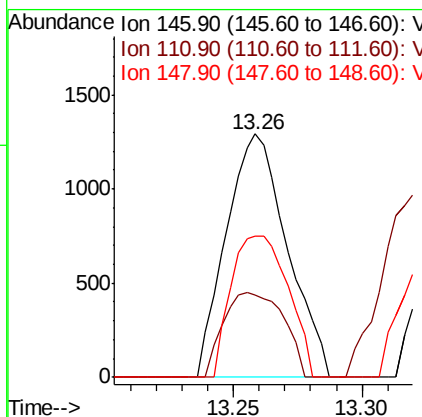
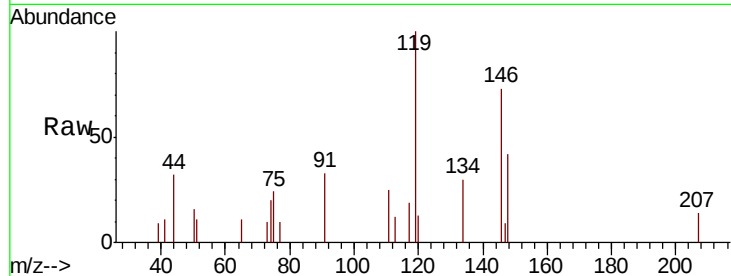
#87
 1,3-Dichlorobenzene
 Concen: 0.608 ug/l
 RT: 13.26 min Scan# 3572
 Delta R.T. 0.00 min
 Lab File: VN062487.D
 Acq: 10 Jul 2020 12:42

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT3-2020DL

Tot Ion	Ratio	Lower	Upper
146	100		
111	34.4	21.6	64.6
148	54.4	32.2	96.6

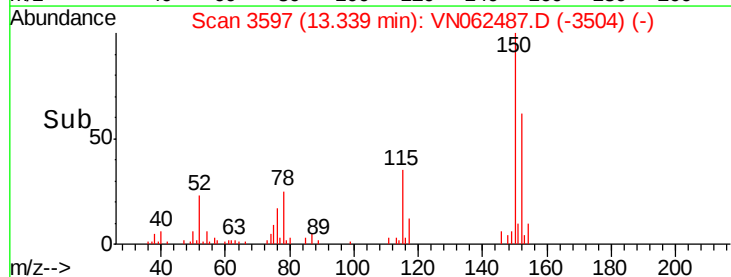
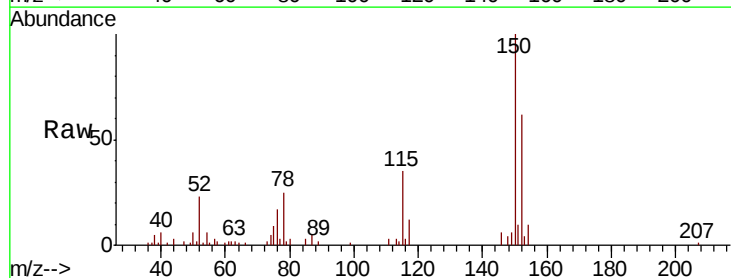
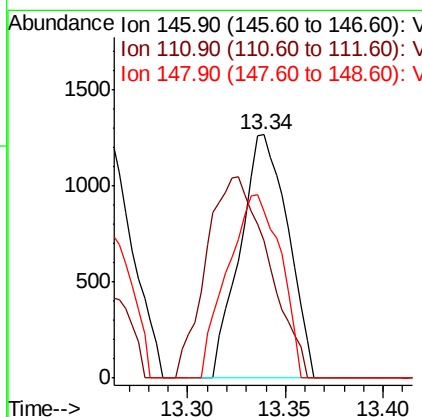
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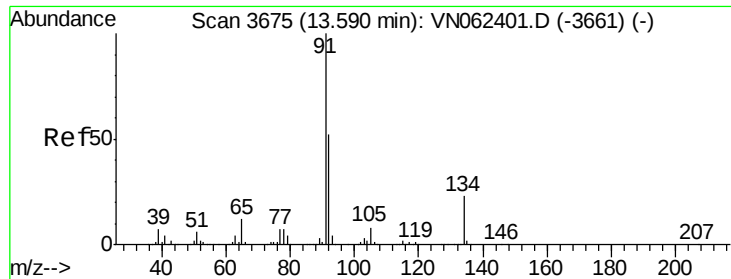
MMDadoda
 7/13/2020 11:19:07 AM



#88
 1,4-Dichlorobenzene
 Concen: 0.595 ug/l m
 RT: 13.34 min Scan# 3597
 Delta R.T. 0.00 min
 Lab File: VN062487.D
 Acq: 10 Jul 2020 12:42

Tgt Ion	Ratio	Lower	Upper
146	100		
111	34.2	21.1	63.1
148	54.0	31.4	94.2





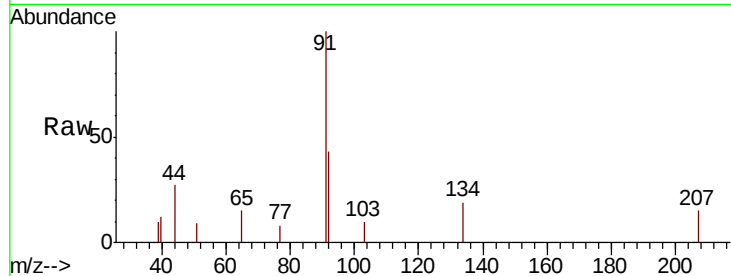
#89
n-Butylbenzene
Concen: 0.506 ug/l
RT: 13.59 min Scan# 3676
Delta R.T. 0.00 min
Lab File: VN062487.D
Acq: 10 Jul 2020 12:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2020DL

Tot Ion	Ratio	Lower	Upper
91	100		
92	46.2	25.9	77.7
134	18.9	11.6	34.8

Manual Integrations
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7/13/2020 11:19:07 AM

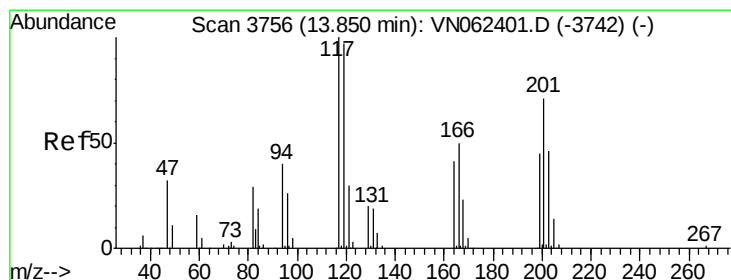
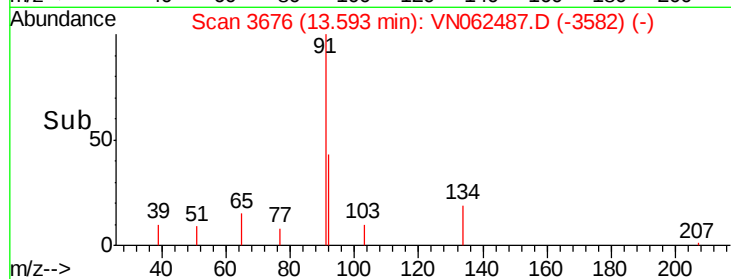
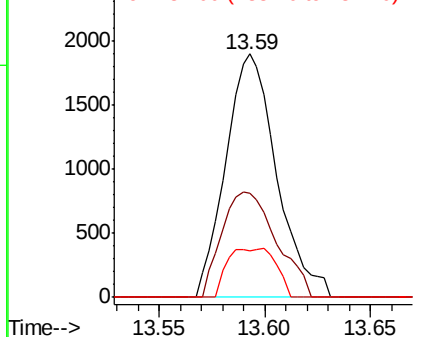


Abundance

Ion 91.00 (90.70 to 91.70): VN062401.D (-3661) (-)

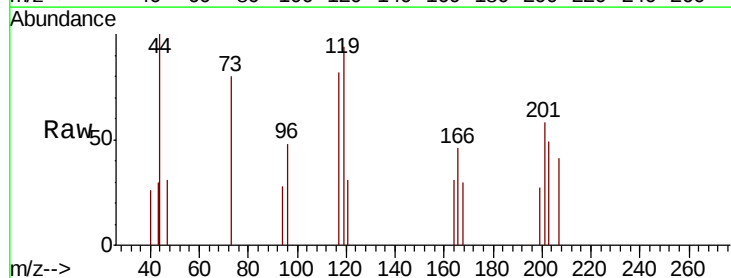
Ion 92.00 (91.70 to 92.70): VN062401.D (-3661) (-)

Ion 134.00 (133.70 to 134.70): VN062401.D (-3661) (-)



#90
Hexachloroethane
Concen: 0.644 ug/l
RT: 13.85 min Scan# 3755
Delta R.T. -0.00 min
Lab File: VN062487.D
Acq: 10 Jul 2020 12:42

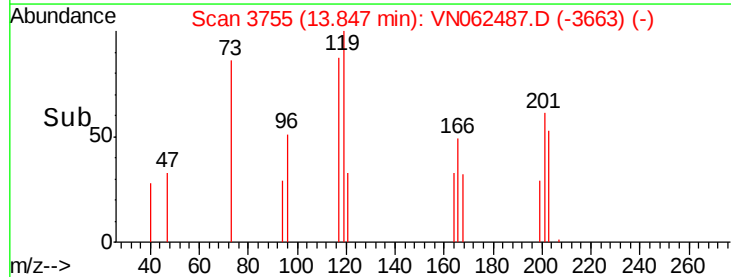
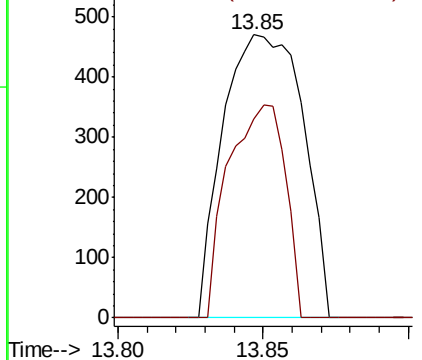
Tgt Ion	Ratio	Lower	Upper
117	100		
201	53.5	35.4	106.2

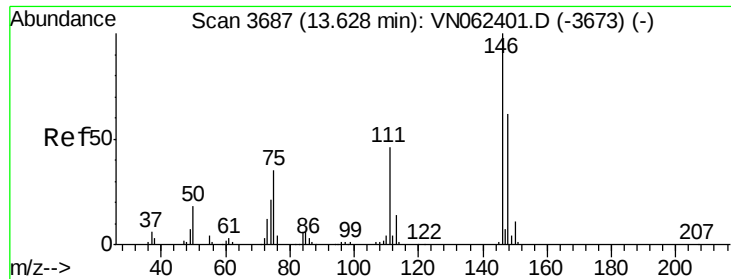


Abundance

Ion 116.80 (116.50 to 117.50): VN062401.D (-3742) (-)

Ion 200.70 (200.40 to 201.40): VN062401.D (-3742) (-)





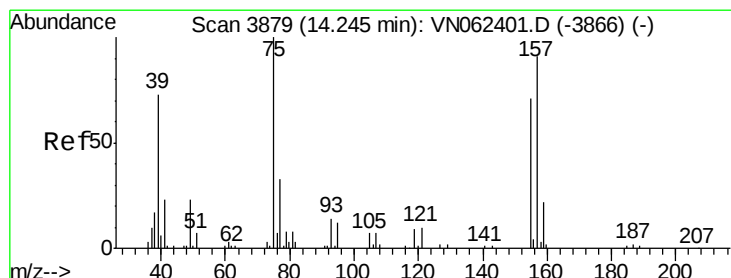
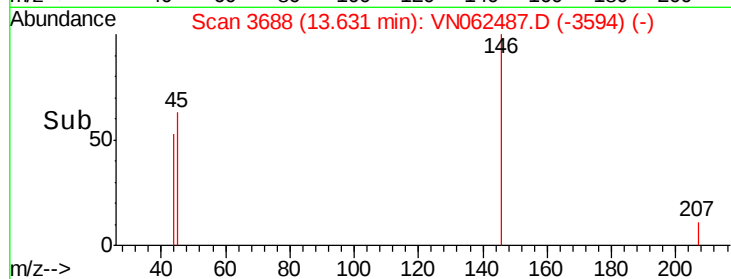
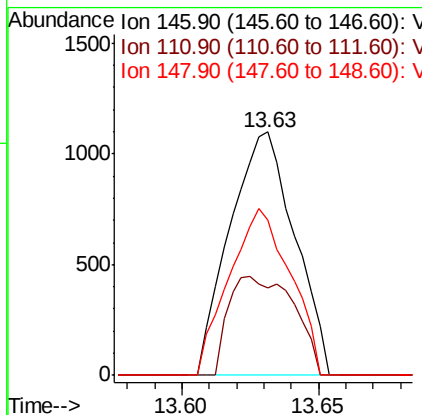
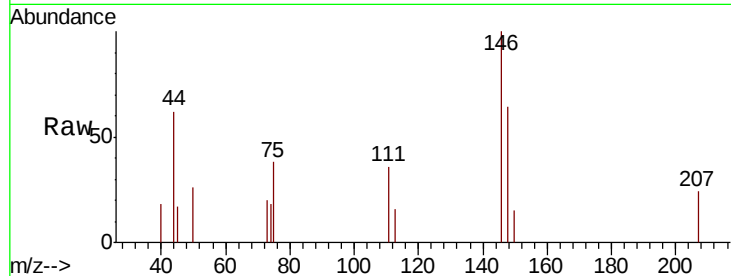
#91
 1,2-Dichlorobenzene
 Concen: 0.534 ug/l
 RT: 13.63 min Scan# 3688
 Delta R.T. 0.00 min
 Lab File: VN062487.D
 Acq: 10 Jul 2020 12:42

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT3-2020DL

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.1	22.5	67.5
148	65.1	31.4	94.2

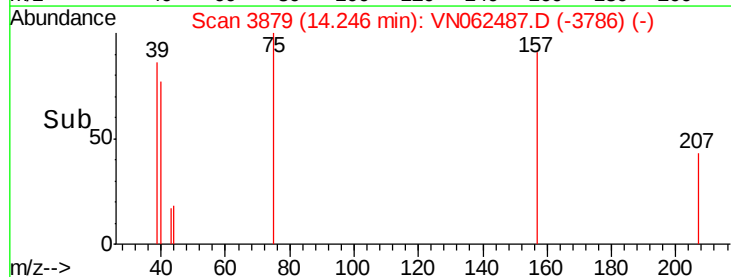
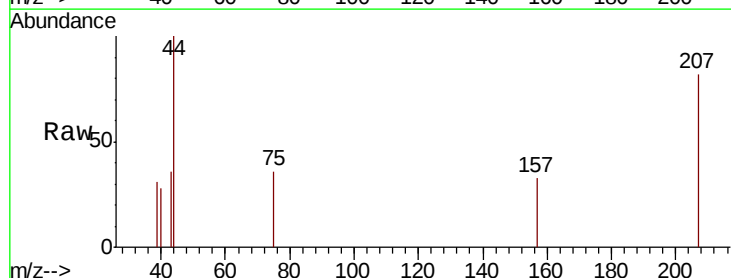
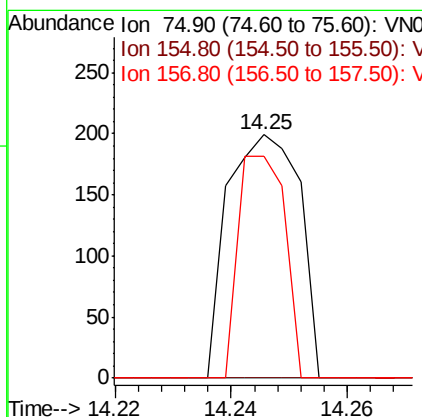
Manual Integrations
 APPROVED

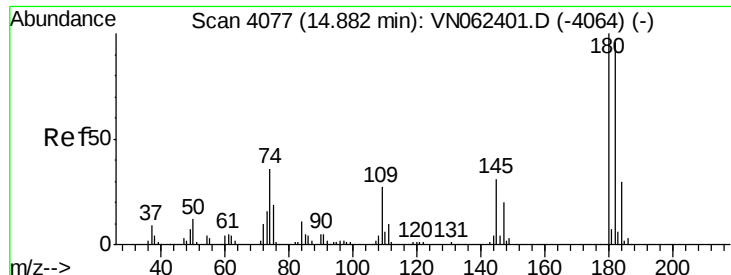
MMDadoda
 7/13/2020 11:19:07 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.312 ug/l
 RT: 14.25 min Scan# 3879
 Delta R.T. 0.00 min
 Lab File: VN062487.D
 Acq: 10 Jul 2020 12:42

Tgt Ion	Ratio	Lower	Upper
75	100		
155	0.0	35.2	105.6#
157	58.5	45.8	137.3





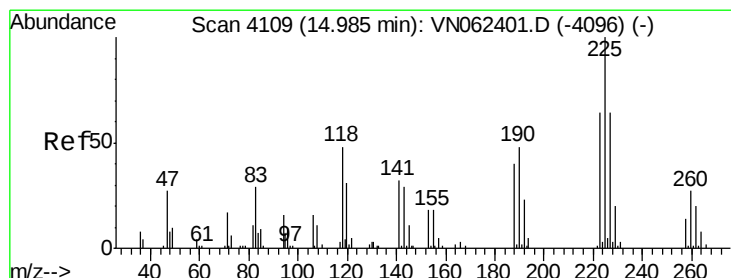
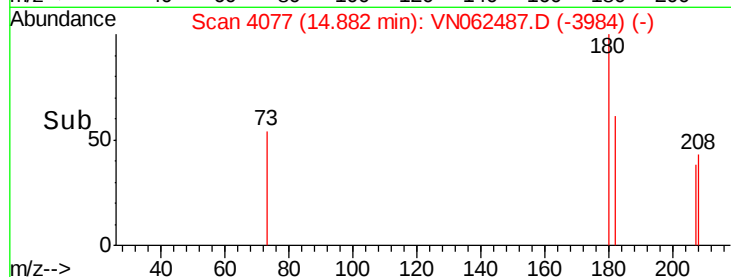
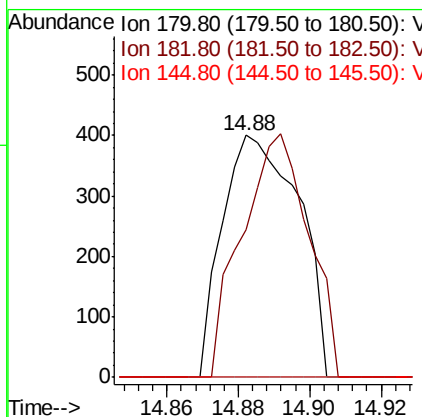
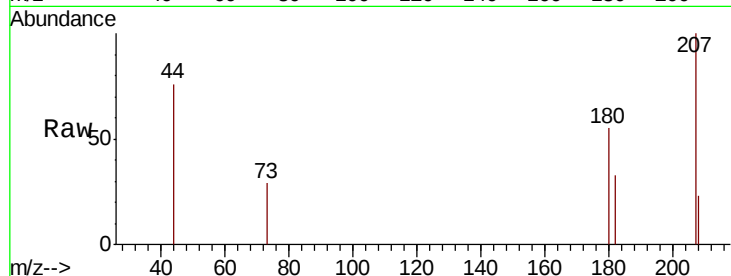
#93
 1,2,4-Trichlorobenzene
 Concen: 0.388 ug/l
 RT: 14.88 min Scan# 4077
 Delta R.T. 0.00 min
 Lab File: VN062487.D
 Acq: 10 Jul 2020 12:42

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT3-2020DL

Tot Ion	Ratio	Lower	Upper
180	100		
182	87.7	48.4	145.2
145	0.0	15.5	46.5#

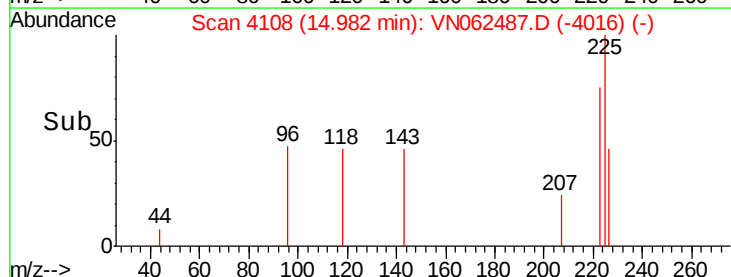
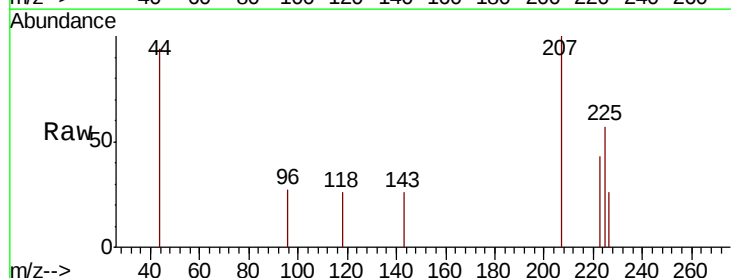
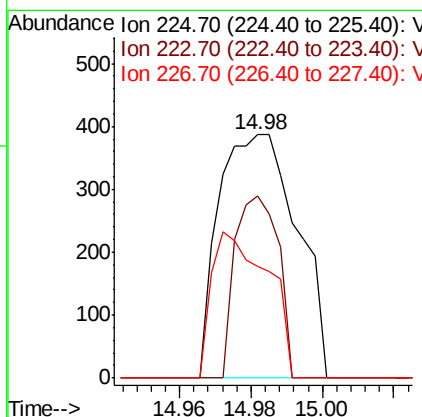
Manual Integrations
 APPROVED

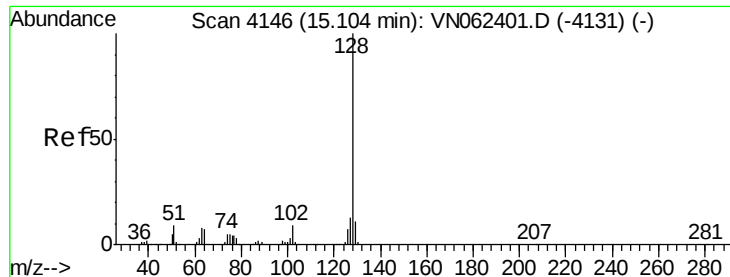
MMDadoda
 7/13/2020 11:19:07 AM



#94
 Hexachlorobutadiene
 Concen: 0.650 ug/l
 RT: 14.98 min Scan# 4108
 Delta R.T. -0.00 min
 Lab File: VN062487.D
 Acq: 10 Jul 2020 12:42

Tgt Ion	Ratio	Lower	Upper
225	100		
223	41.4	32.3	96.8
227	43.2	31.9	95.7





#95

Naphthalene

Concen: 0.522 ug/l

RT: 15.11 min Scan# 4147

Delta R.T. 0.00 min

Lab File: VN062487.D

Acq: 10 Jul 2020 12:42

Instrument :

MSVOA_N

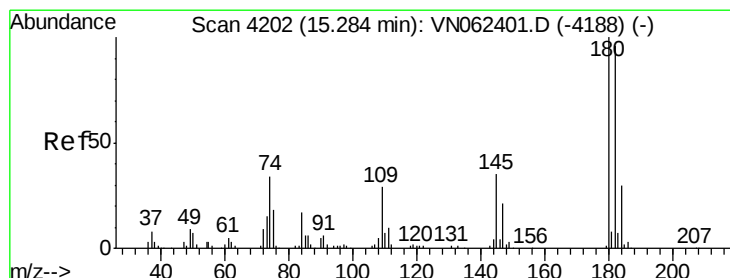
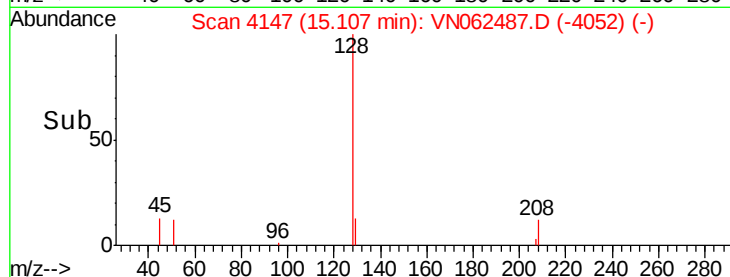
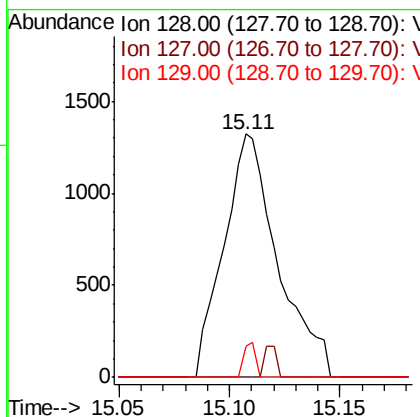
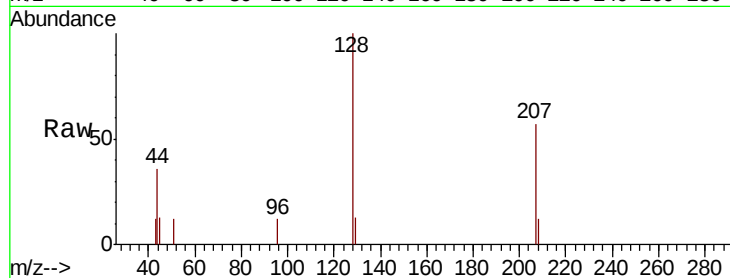
ClientSampleId :

MDL-WATER-03-QT3-2020DL

Tot Ion:	128	Resp:	2247
Ion Ratio	Lower	Upper	
128	100		
127	2.9	10.2	15.2#
129	3.1	8.6	12.8#

Manual Integrations
APPROVED

MMDadoda
7/13/2020 11:19:07 AM



#96

1,2,3-Trichlorobenzene

Concen: 0.466 ug/l

RT: 15.28 min Scan# 4202

Delta R.T. 0.00 min

Lab File: VN062487.D

Acq: 10 Jul 2020 12:42

Tgt Ion:	180	Resp:	740
Ion Ratio	Lower	Upper	
180	100		
182	80.0	47.8	143.4
145	0.0	17.0	50.9#

