

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071020\
 Data File : VN062489.D
 Acq On : 10 Jul 2020 13:30
 Operator : JC/MD
 Sample : L3216-09 2.5PPB MDL
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

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

Quant Time: Jul 13 01:31:26 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	190978	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	327910	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	297026	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	116504	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	142718	48.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.18%	
35) Dibromofluoromethane	7.55	113	100757	49.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.42%	
50) Toluene-d8	10.06	98	391948	48.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.96%	
62) 4-Bromofluorobenzene	12.38	95	131602	45.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.02%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.83	85	5471	2.812	ug/l 97
3) Chloromethane	2.04	50	8819	2.825	ug/l 97
4) Vinyl Chloride	2.16	62	7050	2.757	ug/l 98
5) Bromomethane	2.53	94	3961	2.884	ug/l 98
6) Chloroethane	2.67	64	4217	2.831	ug/l 99
7) Trichlorofluoromethane	2.98	101	8888	2.737	ug/l 99
8) Diethyl Ether	3.37	74	3911	2.693	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.72	101	5739	2.981	ug/l # 73
10) Methyl Iodide	3.91	142	4674	1.839	ug/l # 96
11) Tert butyl alcohol	4.74	59	7365	15.115	ug/l # 83
12) 1,1-Dichloroethene	3.70	96	5496	2.804	ug/l 92
13) Acrolein	3.58	56	4023m	11.445	ug/l
14) Allyl chloride	4.28	41	11282	2.447	ug/l 98
15) Acrylonitrile	4.94	53	15778	12.346	ug/l 97
16) Acetone	3.78	43	15454	12.392	ug/l 93
17) Carbon Disulfide	4.01	76	17752	2.890	ug/l 99
18) Methyl Acetate	4.29	43	8633	2.774	ug/l # 73
19) Methyl tert-butyl Ether	4.99	73	19303	2.597	ug/l 99
20) Methylene Chloride	4.50	84	7529	2.824	ug/l 86
21) trans-1,2-Dichloroethene	5.00	96	5779	2.721	ug/l # 79
22) Diisopropyl ether	5.91	45	23557	2.586	ug/l # 94
23) Vinyl Acetate	5.85	43	91492	12.126	ug/l 99
24) 1,1-Dichloroethane	5.80	63	12576	2.672	ug/l 98
25) 2-Butanone	6.80	43	22573	12.394	ug/l 95
26) 2,2-Dichloropropane	6.77	77	9838	2.726	ug/l 81
27) cis-1,2-Dichloroethene	6.78	96	7013	2.851	ug/l 99
28) Bromochloromethane	7.15	49	5974	2.336	ug/l # 100
29) Tetrahydrofuran	7.17	42	15196	12.392	ug/l 97
30) Chloroform	7.33	83	11722	2.758	ug/l 94
31) Cyclohexane	7.62	56	15013	3.365	ug/l # 63
32) 1,1,1-Trichloroethane	7.53	97	9626	2.723	ug/l 99
36) 1,1-Dichloropropene	7.75	75	9067	2.745	ug/l 98
37) Ethyl Acetate	6.88	43	9724m	2.517	ug/l
38) Carbon Tetrachloride	7.74	117	8471	2.852	ug/l 93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.05	83	9105	2.582	ug/l	99
40) Benzene	8.00	78	27159	2.789	ug/l	96
41) Methacrylonitrile	7.13	41	3688	2.285	ug/l #	65
42) 1,2-Dichloroethane	8.09	62	9646	2.706	ug/l	96
43) Isopropyl Acetate	8.13	43	15873	2.601	ug/l #	90
44) Trichloroethene	8.80	130	6009	2.782	ug/l	99
45) 1,2-Dichloropropane	9.09	63	7641	2.703	ug/l	99
46) Dibromomethane	9.18	93	4528	2.839	ug/l	94
47) Bromodichloromethane	9.37	83	8684	2.546	ug/l	98
48) Methyl methacrylate	9.17	41	7909	2.642	ug/l	92
49) 1,4-Dioxane	9.17	88	2185	50.149	ug/l #	89
51) 4-Methyl-2-Pentanone	9.95	43	45397	12.455	ug/l	97
52) Toluene	10.13	92	15664	2.785	ug/l	100
53) t-1,3-Dichloropropene	10.35	75	9468	2.478	ug/l	96
54) cis-1,3-Dichloropropene	9.81	75	10437	2.476	ug/l	94
55) 1,1,2-Trichloroethane	10.54	97	6316	2.855	ug/l	96
56) Ethyl methacrylate	10.40	69	8576	2.320	ug/l	96
57) 1,3-Dichloropropane	10.68	76	11159	2.731	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.66	63	12909	9.837	ug/l	97
59) 2-Hexanone	10.72	43	31496	11.903	ug/l	97
60) Dibromochloromethane	10.87	129	6129	2.556	ug/l	99
61) 1,2-Dibromoethane	10.98	107	6060	2.714	ug/l	96
64) Tetrachloroethene	10.60	164	4964	2.816	ug/l	90
65) Chlorobenzene	11.41	112	16120	2.792	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.48	131	5713	2.684	ug/l	97
67) Ethyl Benzene	11.48	91	27286	2.518	ug/l	99
68) m/p-Xylenes	11.60	106	18632	4.857	ug/l	95
69) o-Xylene	11.92	106	9642	2.582	ug/l	93
70) Styrene	11.94	104	14325	2.321	ug/l	99
71) Bromoform	12.10	173	4143	2.655	ug/l #	96
73) Isopropylbenzene	12.22	105	24924	2.765	ug/l	100
74) N-amyl acetate	12.05	43	10517	2.397	ug/l	91
75) 1,1,2,2-Tetrachloroethane	12.48	83	9235	3.047	ug/l	98
76) 1,2,3-Trichloropropane	12.53	75	8769m	3.068	ug/l	
77) Bromobenzene	12.50	156	5916	2.886	ug/l	94
78) n-propylbenzene	12.57	91	29312	2.783	ug/l	98
79) 2-Chlorotoluene	12.65	91	18750	2.934	ug/l	97
80) 1,3,5-Trimethylbenzene	12.71	105	19338	2.617	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.28	75	2390	2.238	ug/l	90
82) 4-Chlorotoluene	12.75	91	17870	2.754	ug/l	98
83) tert-Butylbenzene	12.97	119	17359	2.768	ug/l	98
84) 1,2,4-Trimethylbenzene	13.01	105	18957	2.581	ug/l	98
85) sec-Butylbenzene	13.15	105	21457	2.582	ug/l	99
86) p-Isopropyltoluene	13.27	119	17593	2.453	ug/l	95
87) 1,3-Dichlorobenzene	13.26	146	9552	2.702	ug/l	98
88) 1,4-Dichlorobenzene	13.34	146	10075	2.769	ug/l	87
89) n-Butylbenzene	13.59	91	14956	2.361	ug/l	97
90) Hexachloroethane	13.85	117	3738	2.649	ug/l	88
91) 1,2-Dichlorobenzene	13.63	146	9304	2.722	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.25	75	1523	2.753	ug/l	89

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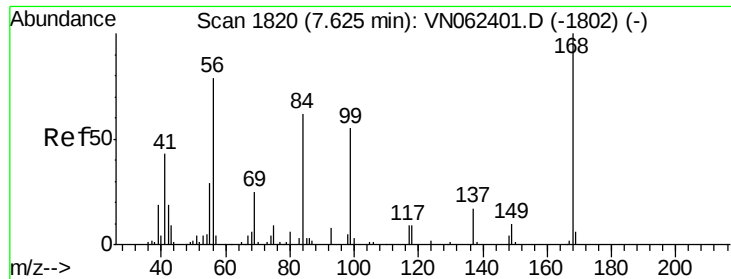
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.89	180	3137	2.035	ug/l	93
94) Hexachlorobutadiene	14.98	225	2654	2.924	ug/l	95
95) Naphthalene	15.11	128	8318	1.914	ug/l #	95
96) 1,2,3-Trichlorobenzene	15.28	180	3441	2.147	ug/l	96

(#) = 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: VN062489.D

Acq: 10 Jul 2020 13:30

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2020DL

Tot Ion:168 Resp: 190978

Ion Ratio Lower Upper

168 100

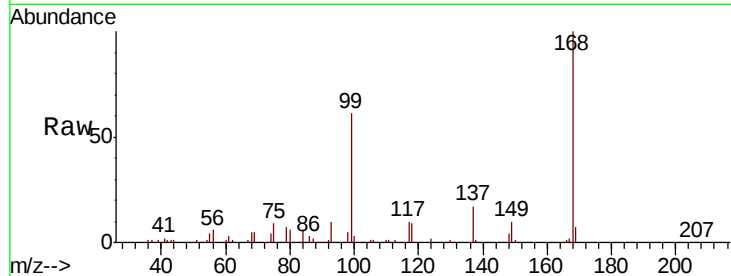
99 61.0 48.8 73.2

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

80000

60000

40000

20000

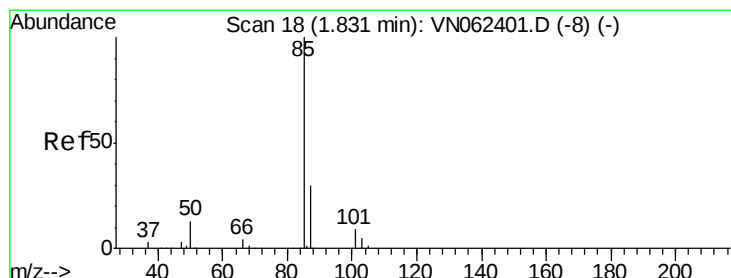
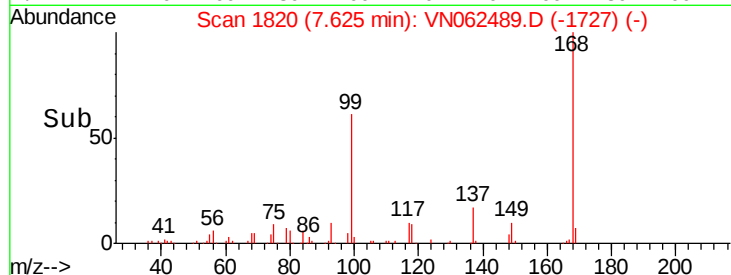
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Time-->

7.50

7.60

7.70



#2

Dichlorodifluoromethane

Concen: 2.812 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN062489.D

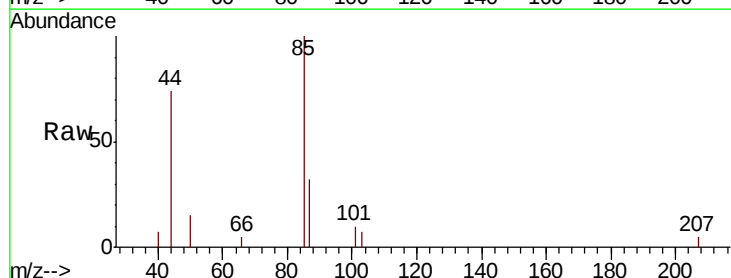
Acq: 10 Jul 2020 13:30

Tgt Ion: 85 Resp: 5471

Ion Ratio Lower Upper

85 100

87 32.2 15.2 45.5



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

4000

3000

2000

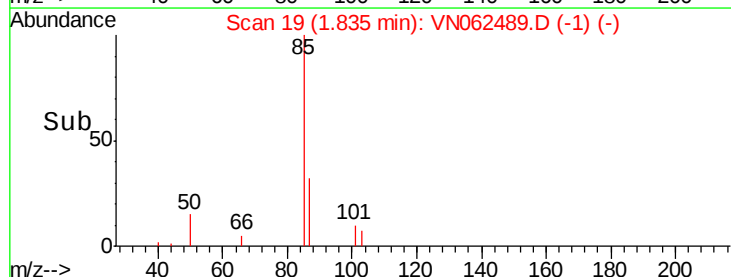
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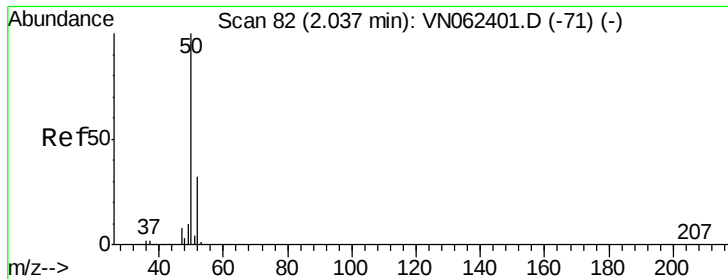
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Time-->

1.80

1.85





#3

Chloromethane

Concen: 2.825 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN062489.D

Acq: 10 Jul 2020 13:30

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2020DL

Tot Ion: 50 Resp: 8819

Ion Ratio Lower Upper

50 100

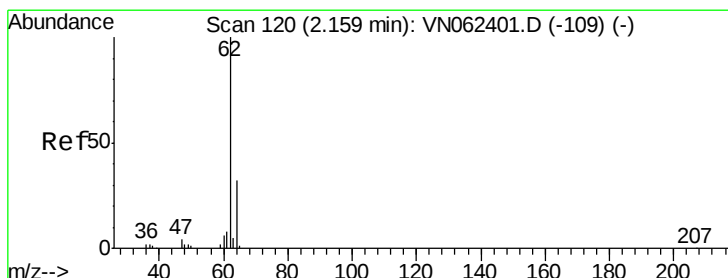
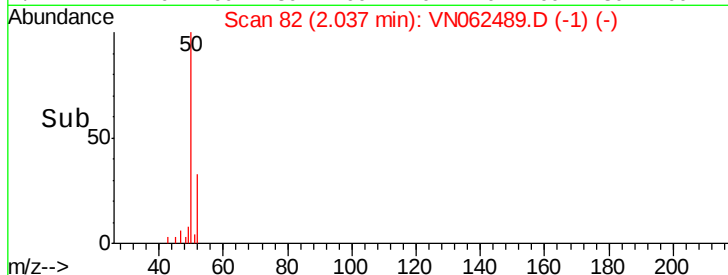
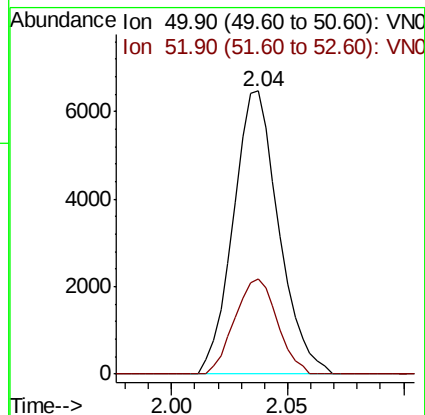
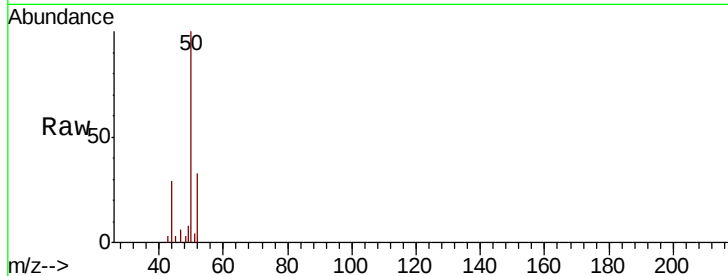
52 33.5 25.5 38.3

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#4

Vinyl Chloride

Concen: 2.757 ug/l

RT: 2.16 min Scan# 120

Delta R.T. 0.00 min

Lab File: VN062489.D

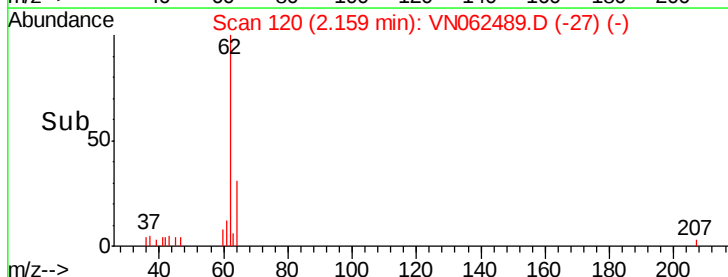
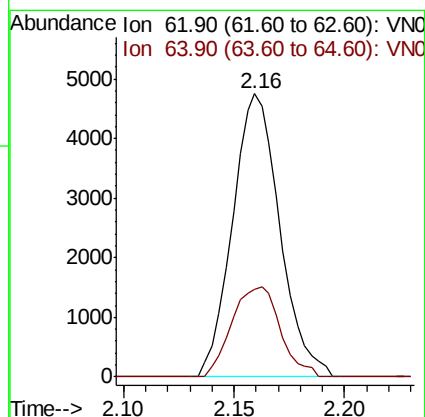
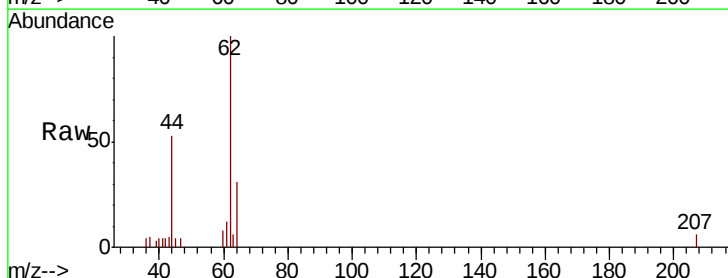
Acq: 10 Jul 2020 13:30

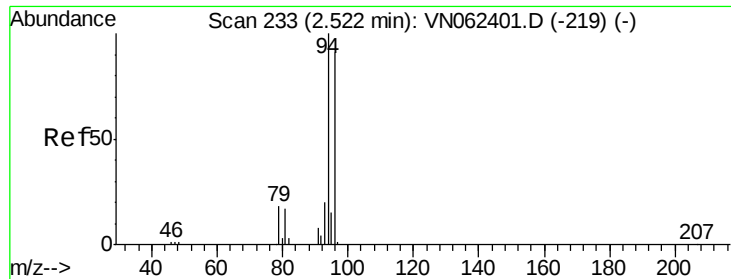
Tgt Ion: 62 Resp: 7050

Ion Ratio Lower Upper

62 100

64 31.1 25.7 38.5





#5

Bromomethane

Concen: 2.884 ug/l

RT: 2.53 min Scan# 235

Delta R.T. 0.01 min

Lab File: VN062489.D

Acq: 10 Jul 2020 13:30

Instrument :

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MDL-WATER-03-QT3-2020DL

Tot Ion: 94 Resp: 3961

Ion Ratio Lower Upper

94 100

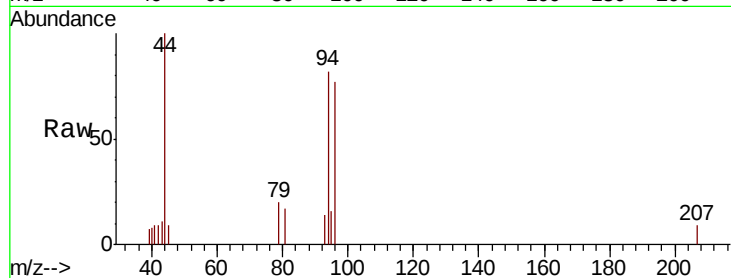
96 93.2 73.2 109.8

Manual Integrations

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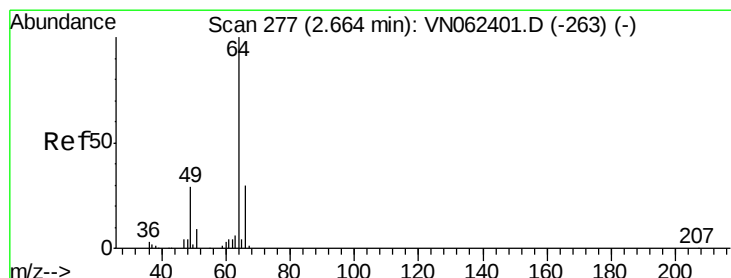
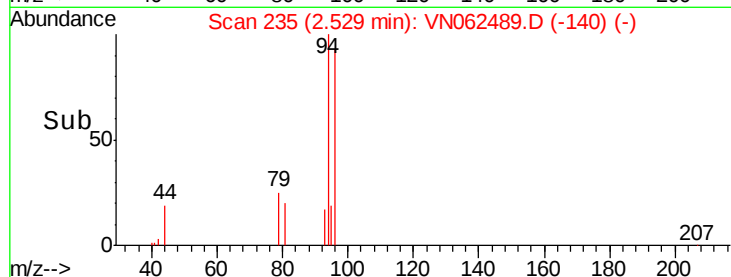
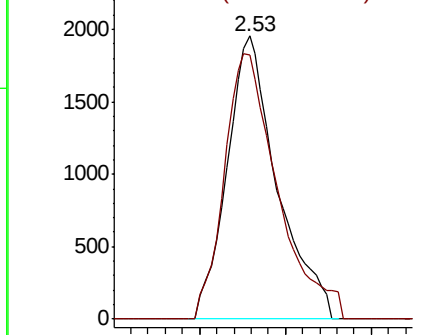
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Abundance Ion 93.90 (93.60 to 94.60): VNC

Ion 95.90 (95.60 to 96.60): VNC



#6

Chloroethane

Concen: 2.831 ug/l

RT: 2.67 min Scan# 279

Delta R.T. 0.01 min

Lab File: VN062489.D

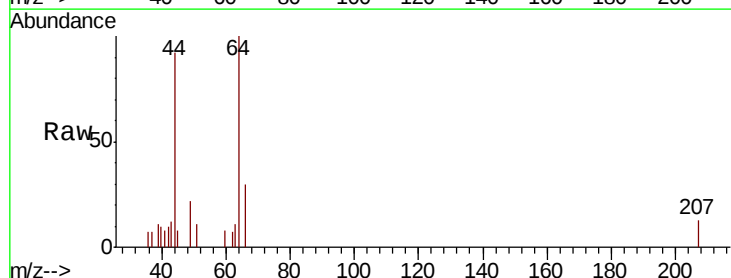
Acq: 10 Jul 2020 13:30

Tgt Ion: 64 Resp: 4217

Ion Ratio Lower Upper

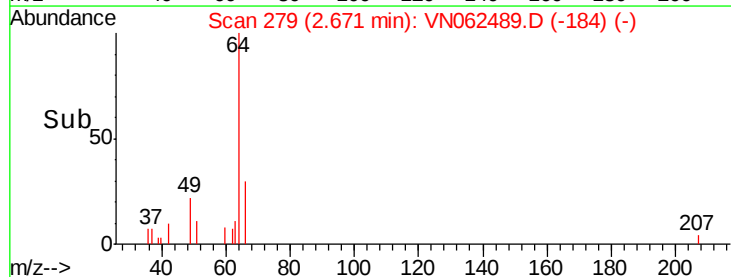
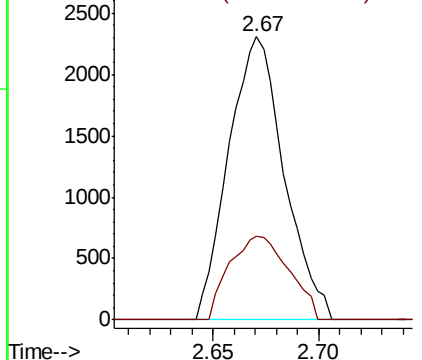
64 100

66 29.7 24.2 36.2



Abundance Ion 63.90 (63.60 to 64.60): VNC

Ion 65.90 (65.60 to 66.60): VNC





#7

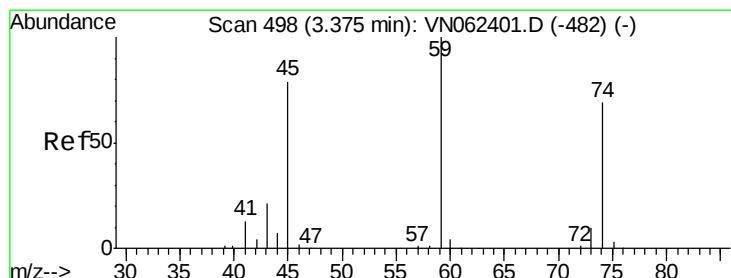
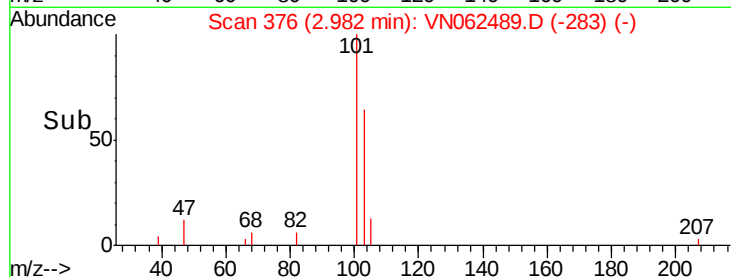
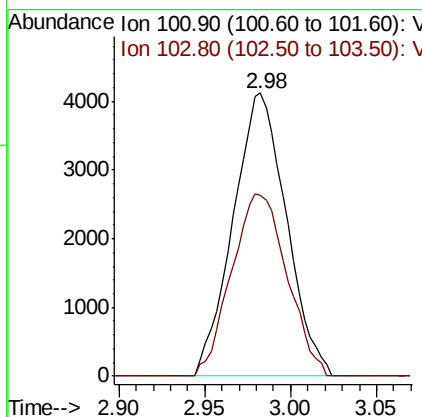
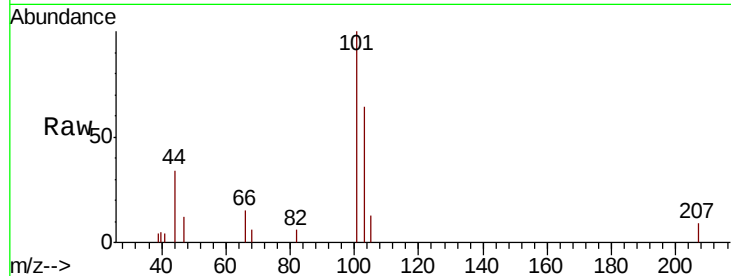
Trichlorofluoromethane
 Concen: 2.737 ug/l
 RT: 2.98 min Scan# 376
 Delta R.T. 0.00 min
 Lab File: VN062489.D
 Acq: 10 Jul 2020 13:30

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

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.9	51.6	77.4

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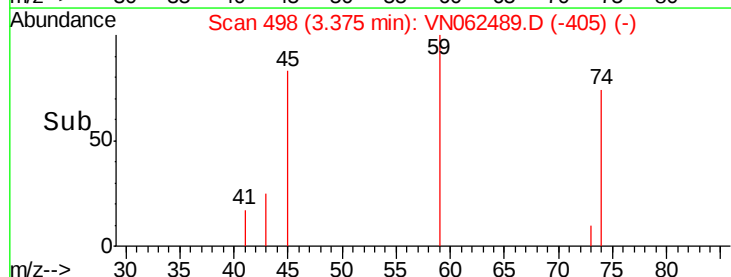
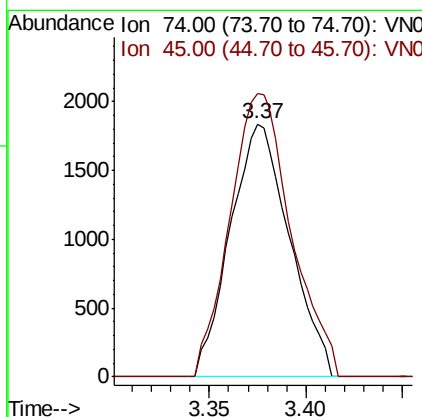
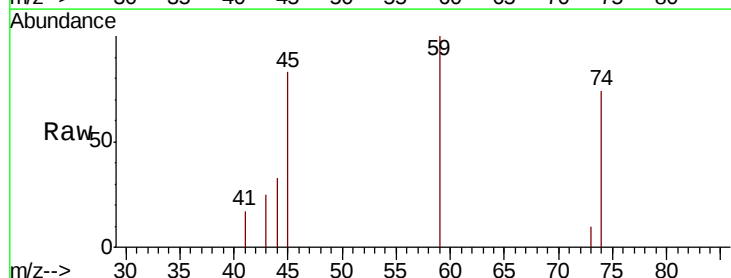
MMDadoda
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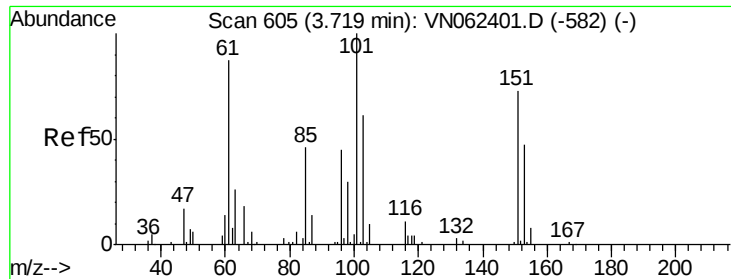


#8

Diethyl Ether
 Concen: 2.693 ug/l
 RT: 3.37 min Scan# 498
 Delta R.T. 0.00 min
 Lab File: VN062489.D
 Acq: 10 Jul 2020 13:30

Tgt Ion	Ratio	Lower	Upper
74	100		
45	115.8	58.5	175.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.981 ug/l

RT: 3.72 min Scan# 605

Delta R.T. 0.00 min

Lab File: VN062489.D

Acq: 10 Jul 2020 13:30

Instrument :

MSVOA_N

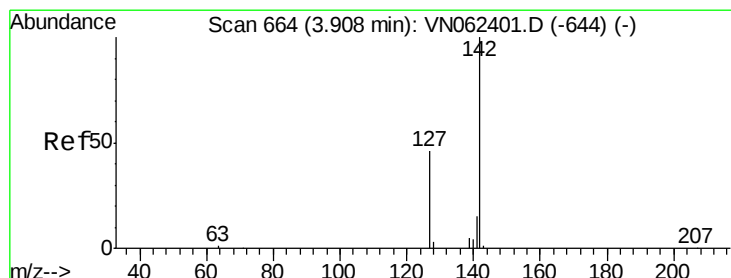
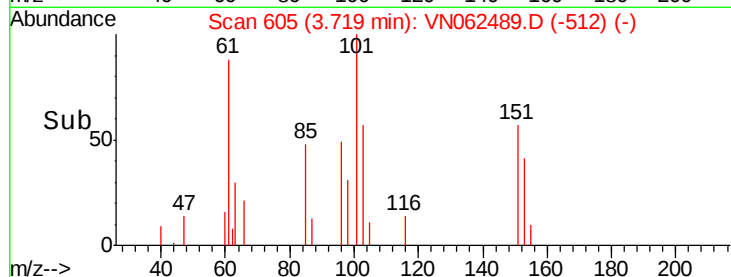
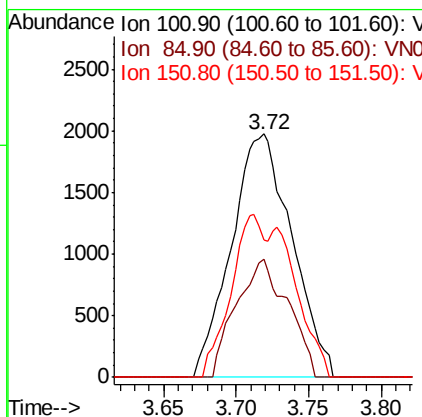
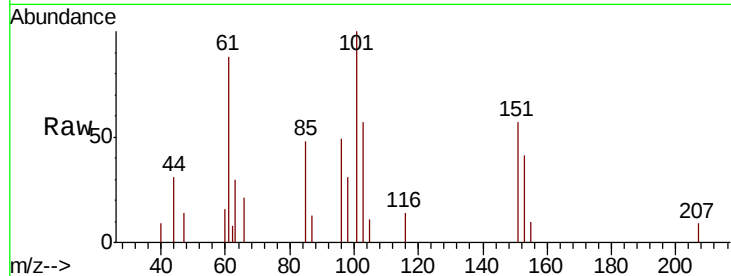
ClientSampleId :

MDL-WATER-03-QT3-2020DL

Tot Ion:	101	Resp:	5739
Ion Ratio	Lower	Upper	
101	100		
85	41.5	36.7	55.1
151	39.0	58.3	87.5#

Manual Integrations
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#10

Methyl Iodide

Concen: 1.839 ug/l

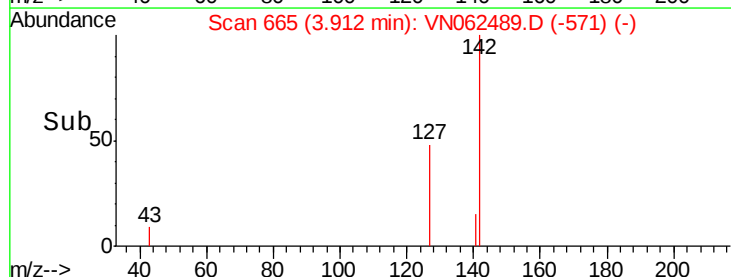
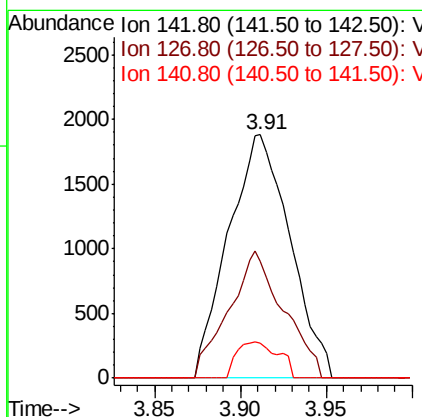
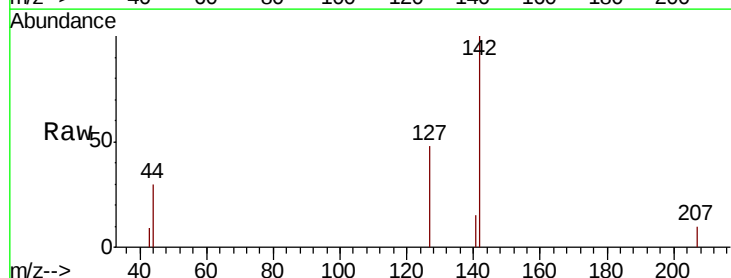
RT: 3.91 min Scan# 665

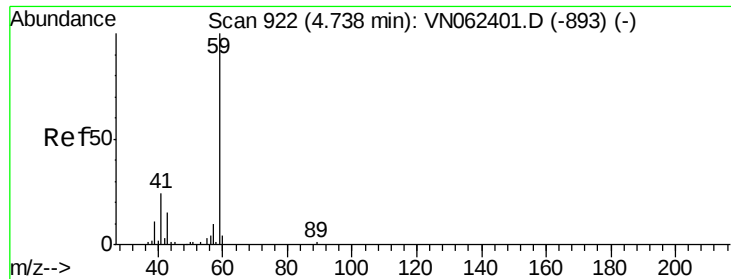
Delta R.T. 0.00 min

Lab File: VN062489.D

Acq: 10 Jul 2020 13:30

Tgt Ion:	142	Resp:	4674
Ion Ratio	Lower	Upper	
142	100		
127	46.3	36.1	54.1
141	10.1	11.4	17.0#





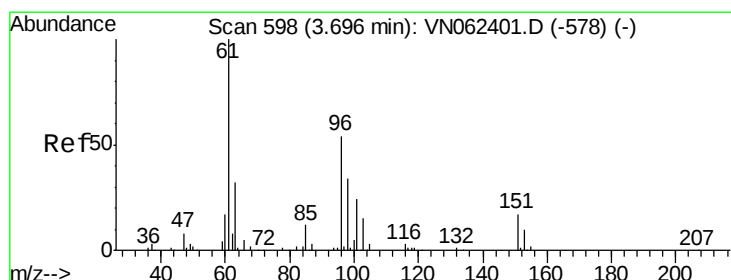
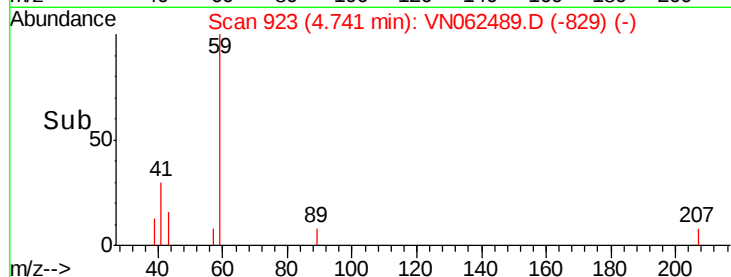
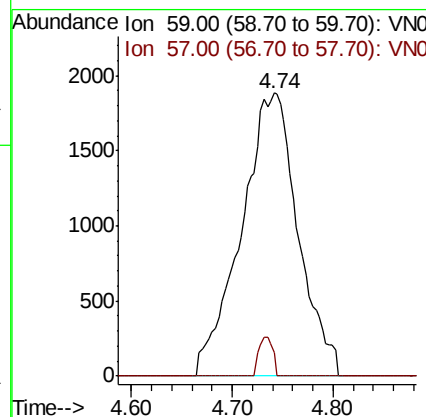
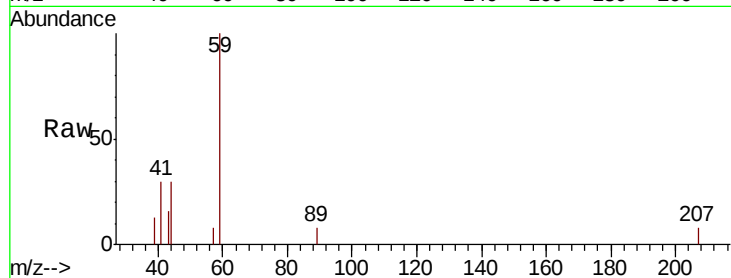
#11
Tert butyl alcohol
Concen: 15.115 ug/l
RT: 4.74 min Scan# 923
Delta R.T. 0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

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

Tot Ion: 59 Resp: 7365
Ion Ratio Lower Upper
59 100
57 3.3 7.8 11.6#

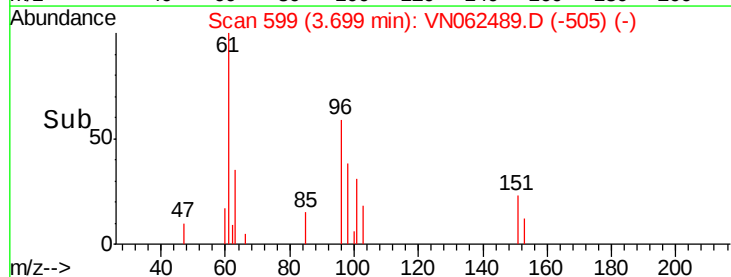
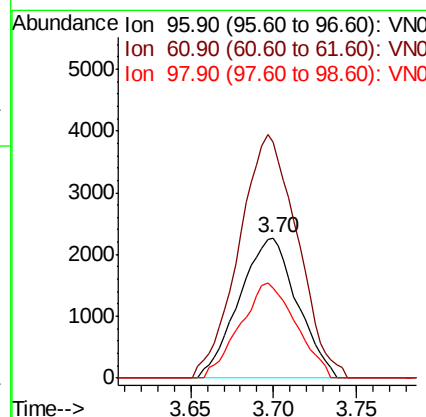
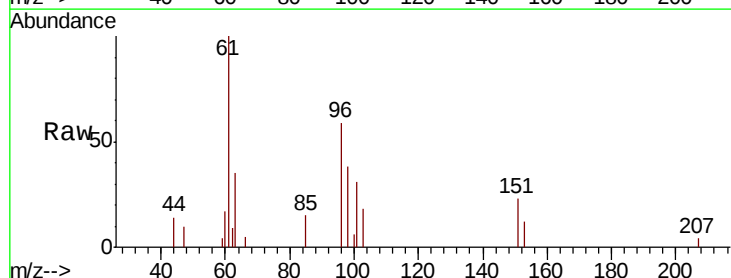
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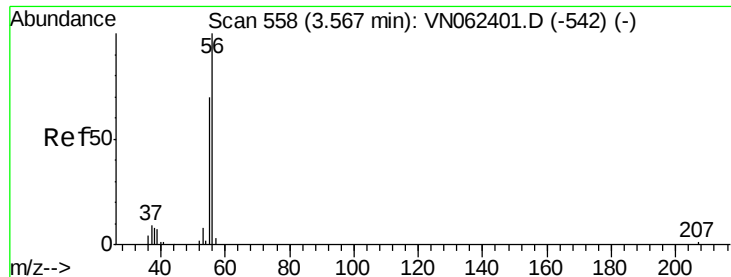
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#12
1,1-Dichloroethene
Concen: 2.804 ug/l
RT: 3.70 min Scan# 599
Delta R.T. 0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

Tgt Ion: 96 Resp: 5496
Ion Ratio Lower Upper
96 100
61 168.8 147.4 221.0
98 64.3 50.4 75.6





#13

Acrolein

Concen: 11.445 ug/l m

RT: 3.58 min Scan# 562

Delta R.T. 0.01 min

Lab File: VN062489.D

Acq: 10 Jul 2020 13:30

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2020DL

Tot Ion: 56 Resp: 4023

Ion Ratio Lower Upper

56 100

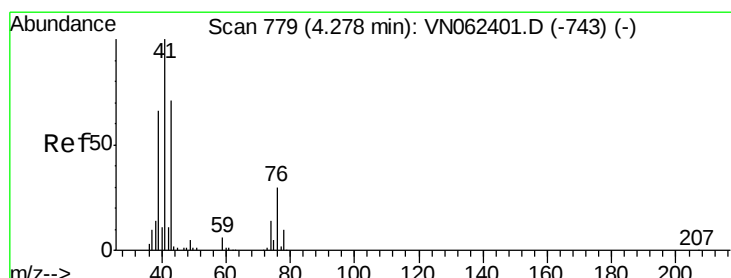
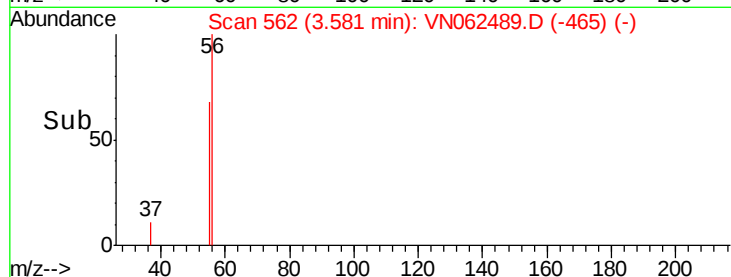
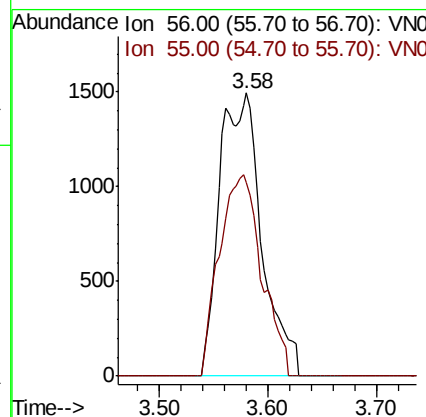
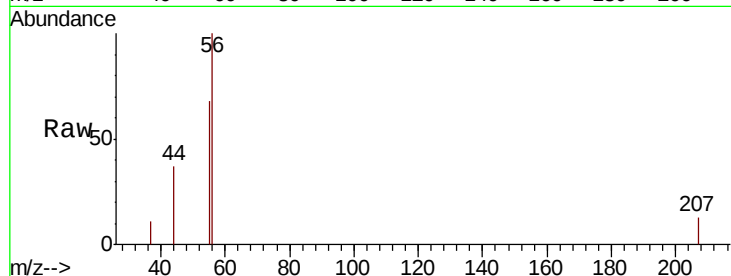
55 71.4 57.2 85.8

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#14

Allyl chloride

Concen: 2.447 ug/l

RT: 4.28 min Scan# 780

Delta R.T. 0.00 min

Lab File: VN062489.D

Acq: 10 Jul 2020 13:30

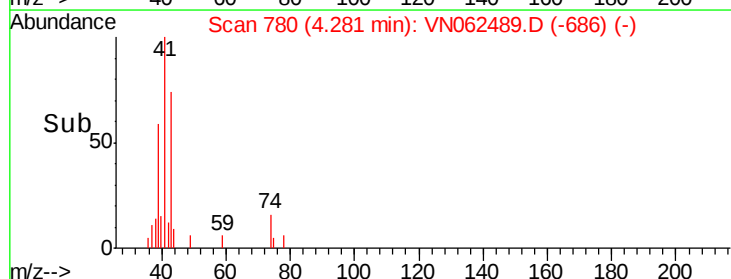
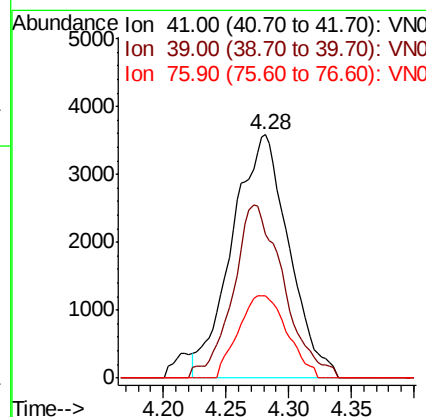
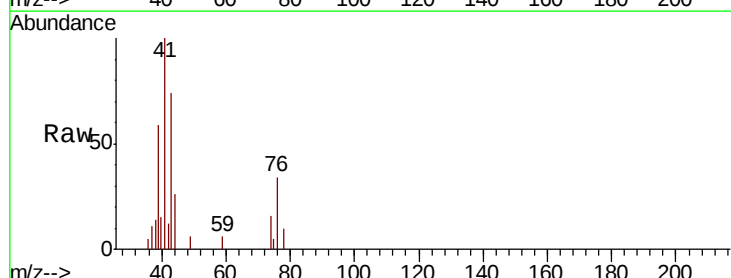
Tgt Ion: 41 Resp: 11282

Ion Ratio Lower Upper

41 100

39 63.5 49.6 74.4

76 28.9 22.2 33.4





#15

Acrylonitrile

Concen: 12.346 ug/l

RT: 4.94 min Scan# 985

Delta R.T. 0.01 min

Lab File: VN062489.D

Acq: 10 Jul 2020 13:30

Instrument :

MSVOA_N

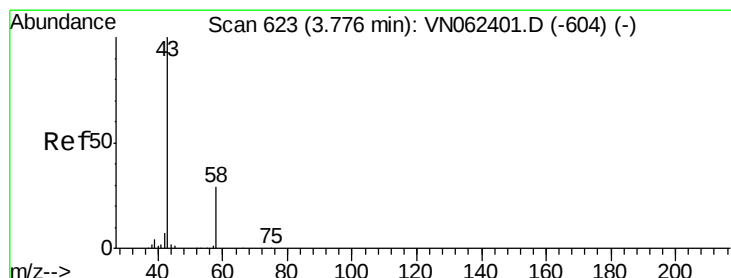
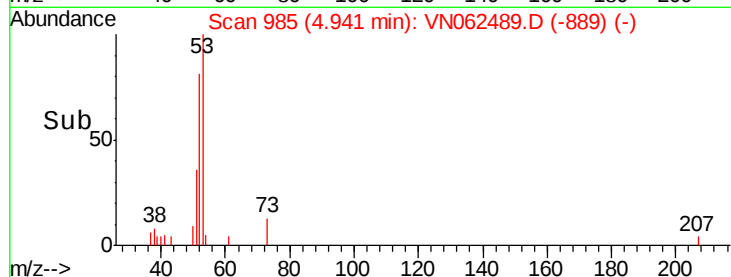
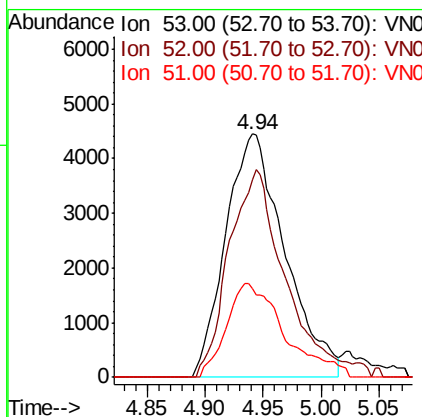
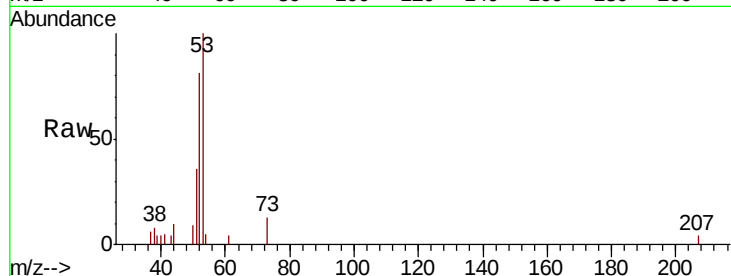
ClientSampleId :

MDL-WATER-03-QT3-2020DL

Tot Ion:	53	Resp:	15778
Ion	Ratio	Lower	Upper
53	100		
52	80.5	66.2	99.4
51	37.8	28.7	43.1

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#16

Acetone

Concen: 12.392 ug/l

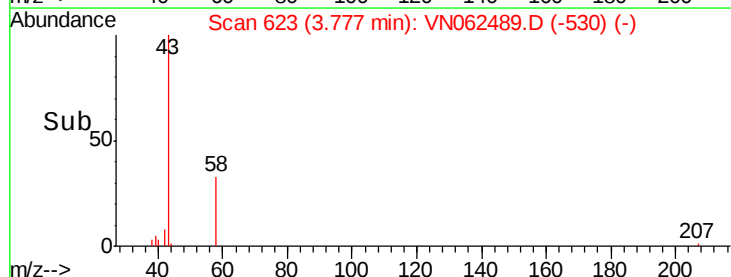
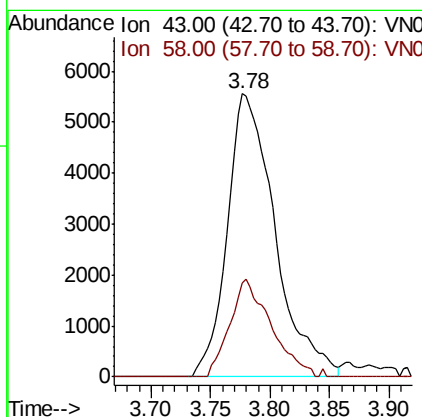
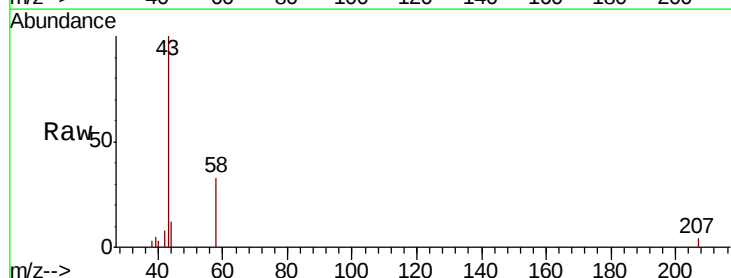
RT: 3.78 min Scan# 623

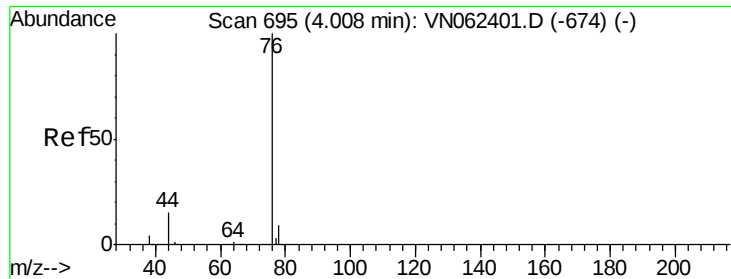
Delta R.T. 0.00 min

Lab File: VN062489.D

Acq: 10 Jul 2020 13:30

Tgt Ion:	43	Resp:	15454
Ion	Ratio	Lower	Upper
43	100		
58	33.2	23.5	35.3





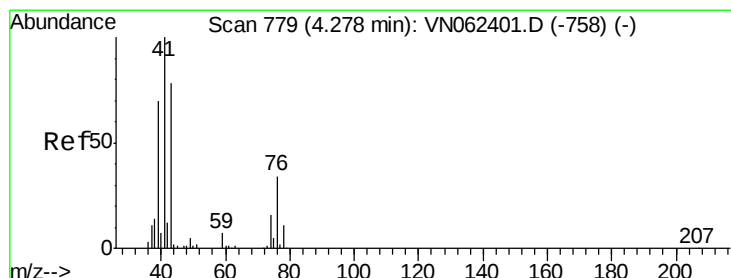
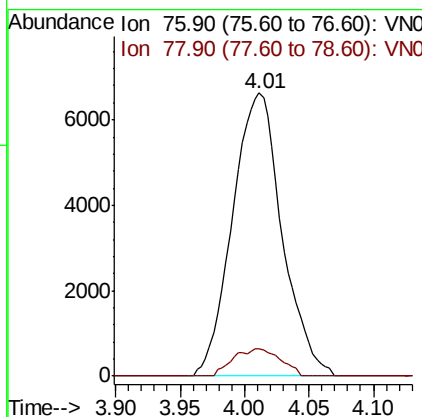
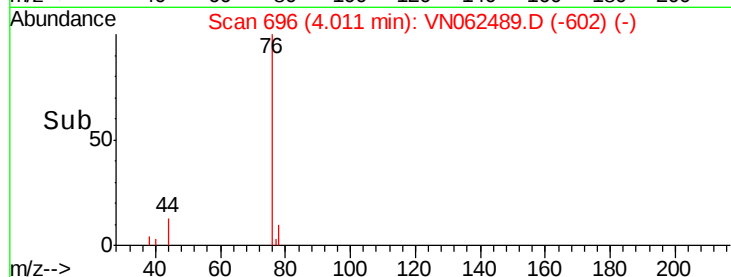
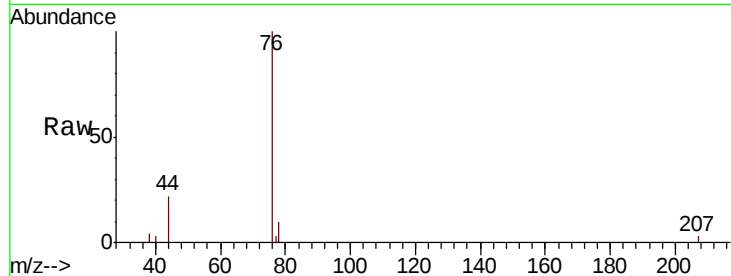
#17
Carbon Disulfide
Concen: 2.890 ug/l
RT: 4.01 min Scan# 696
Delta R.T. 0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

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

Tot Ion: 76 Resp: 17752
Ion Ratio Lower Upper
76 100
78 9.6 7.3 10.9

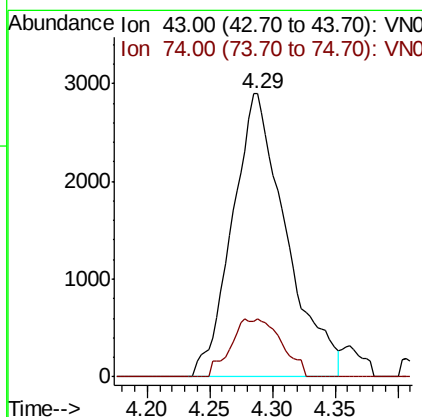
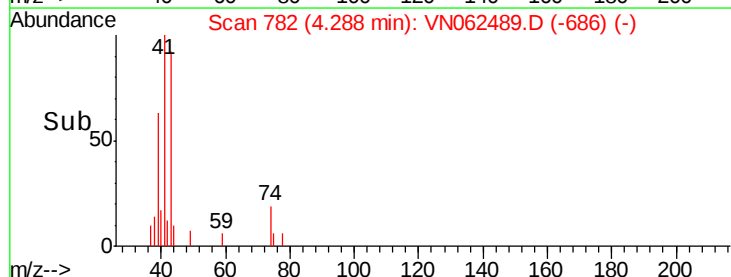
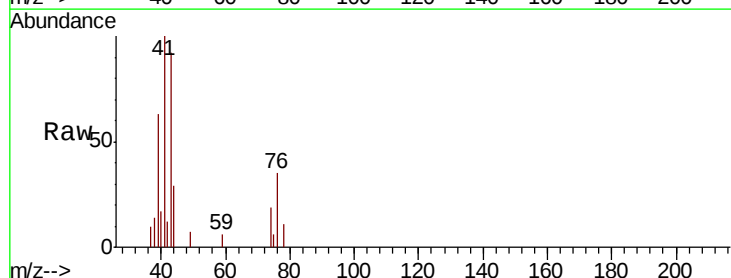
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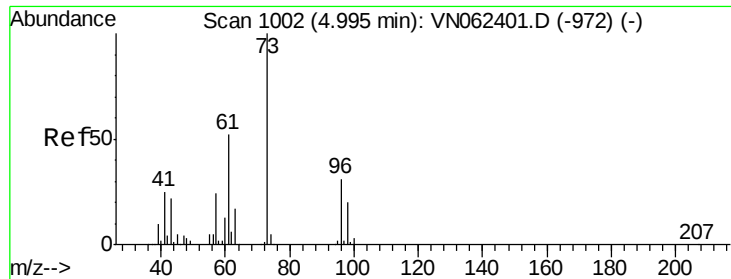
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#18
Methyl Acetate
Concen: 2.774 ug/l
RT: 4.29 min Scan# 782
Delta R.T. 0.01 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

Tgt Ion: 43 Resp: 8633
Ion Ratio Lower Upper
43 100
74 7.8 16.0 24.0#





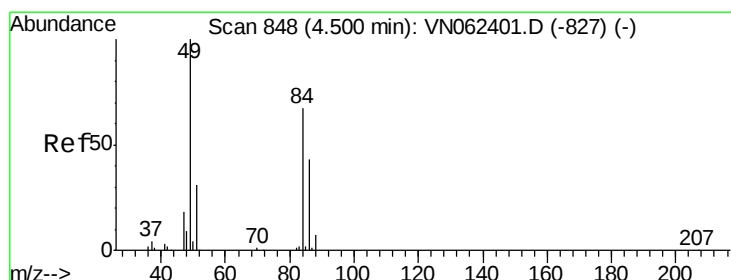
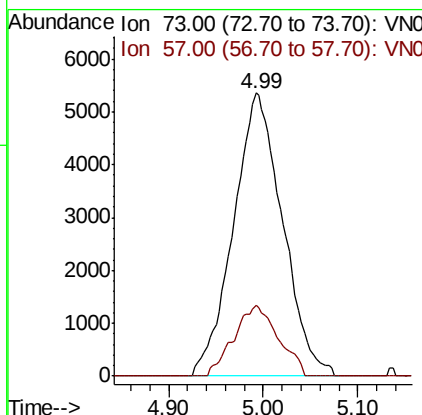
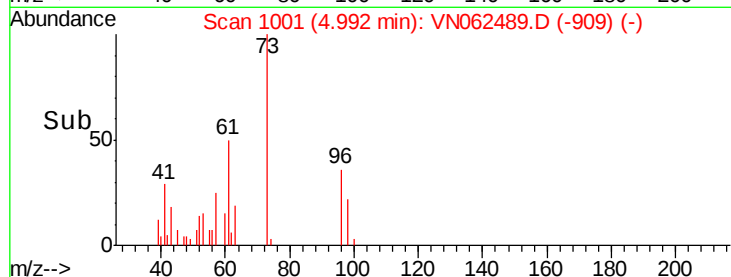
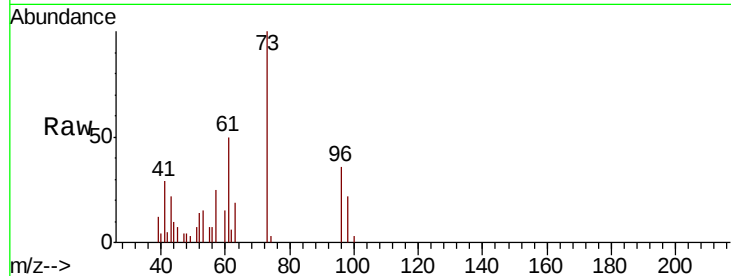
#19
Methyl tert-butyl Ether
Concen: 2.597 ug/l
RT: 4.99 min Scan# 1001
Delta R.T. -0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

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

Tot Ion: 73 Resp: 19303
Ion Ratio Lower Upper
73 100
57 24.9 19.4 29.0

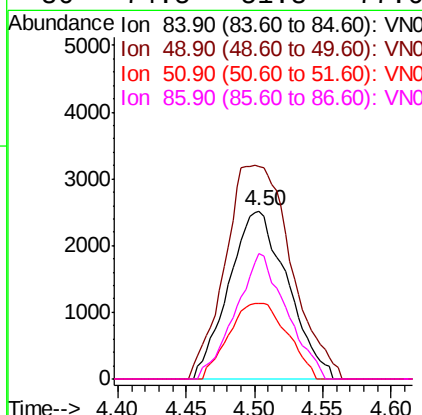
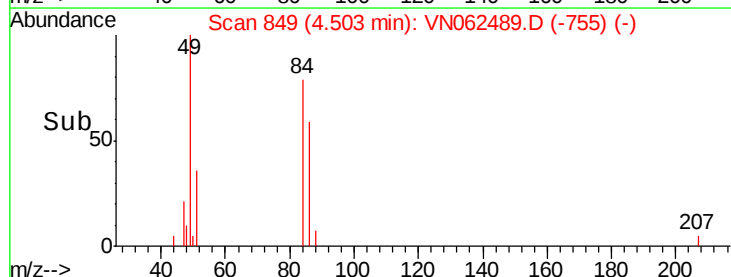
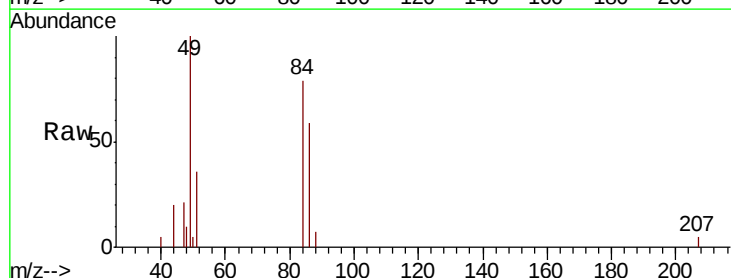
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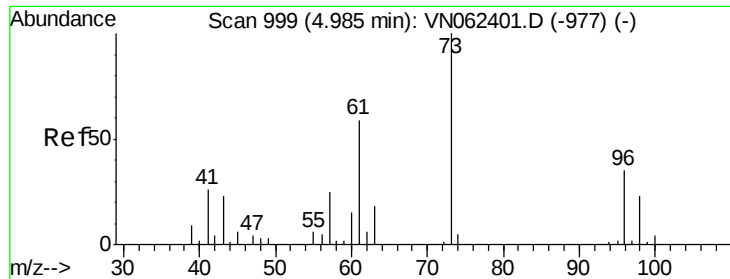
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#20
Methylene Chloride
Concen: 2.824 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

Tgt Ion: 84 Resp: 7529
Ion Ratio Lower Upper
84 100
49 126.5 120.0 180.0
51 45.0 37.0 55.6
86 74.5 51.8 77.6





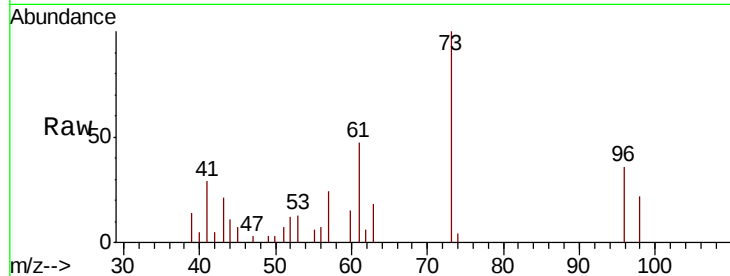
#21
trans-1,2-Dichloroethene
Concen: 2.721 ug/l
RT: 5.00 min Scan# 1002
Delta R.T. 0.01 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

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

Tot Ion	Ratio	Lower	Upper
96	100		
61	130.1	133.5	200.3#
98	60.4	51.9	77.9

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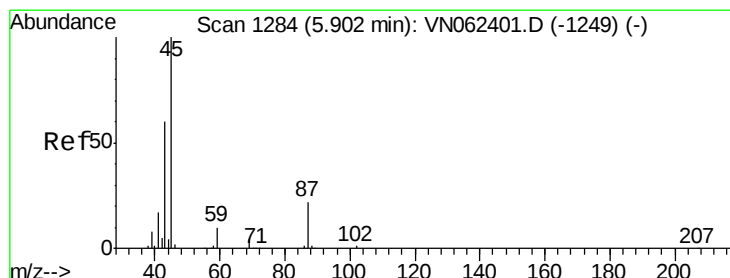
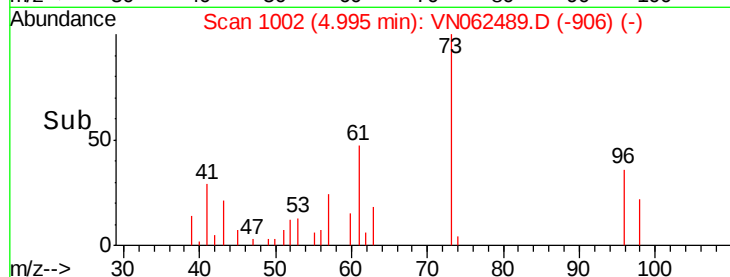
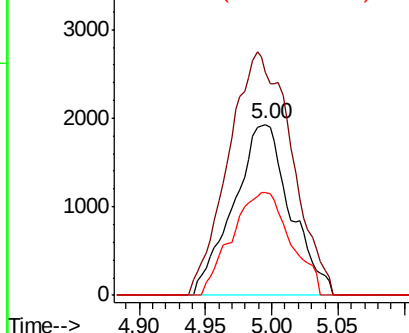


Abundance

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: 2.586 ug/l
RT: 5.91 min Scan# 1285
Delta R.T. 0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

Tgt Ion	Ratio	Lower	Upper
45	100		
43	68.6	50.1	75.1
87	23.2	18.2	27.4
59	13.0	8.2	12.2#

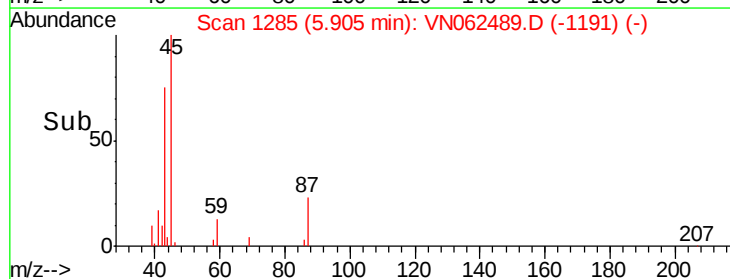
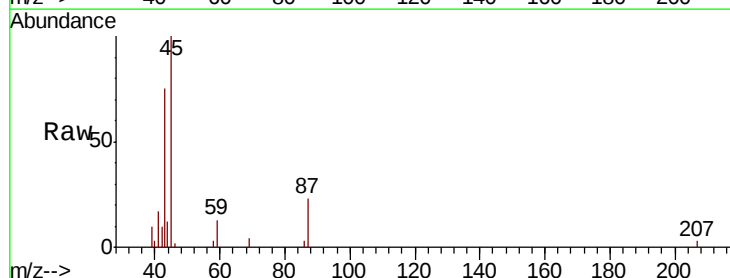
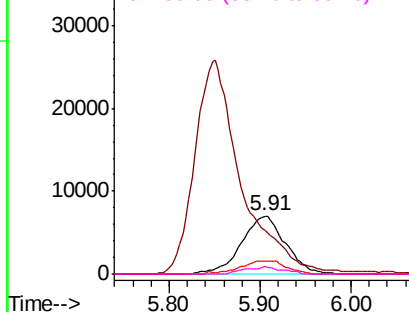
Abundance

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





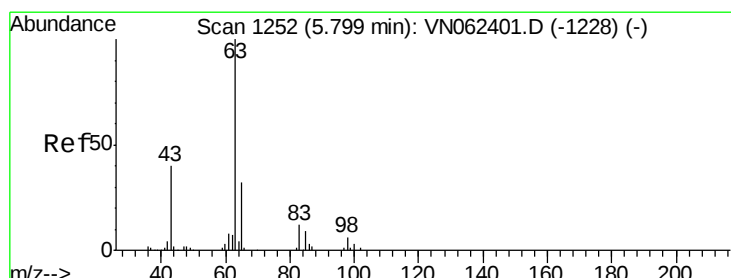
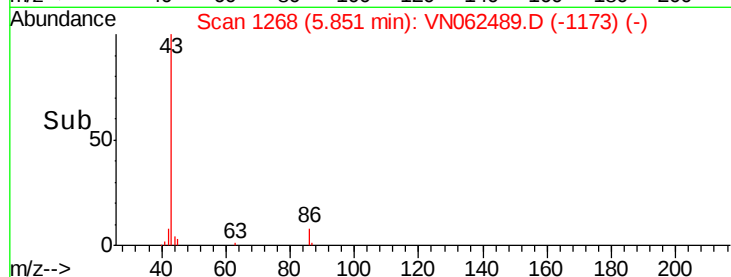
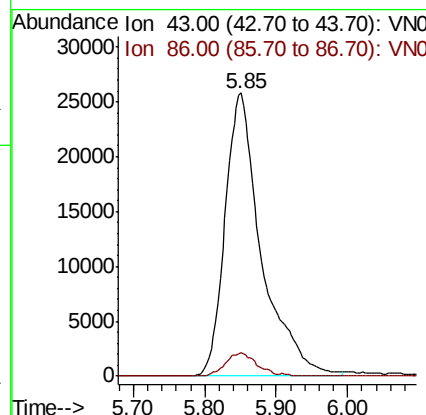
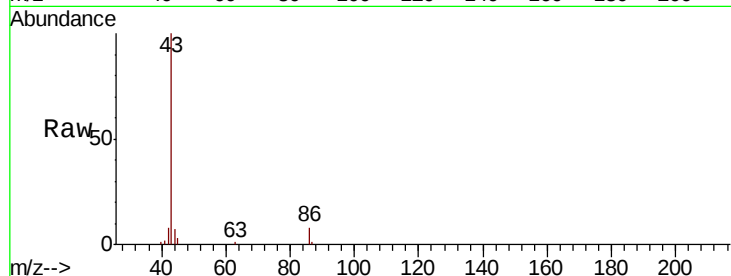
#23
 Vinyl Acetate
 Concen: 12.126 ug/l
 RT: 5.85 min Scan# 1268
 Delta R.T. 0.01 min
 Lab File: VN062489.D
 Acq: 10 Jul 2020 13:30

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

Tot Ion	43	Resp	91492
Ion Ratio	Lower	Upper	
43	100		
86	8.2	6.7	10.1

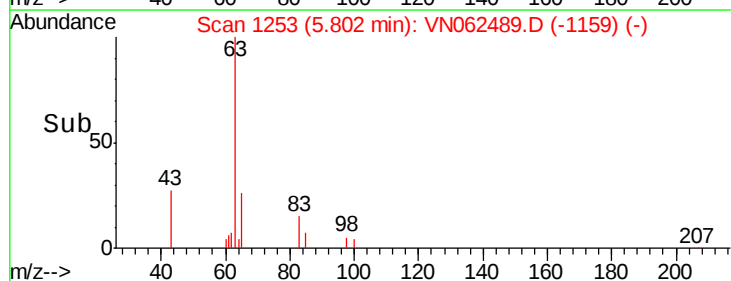
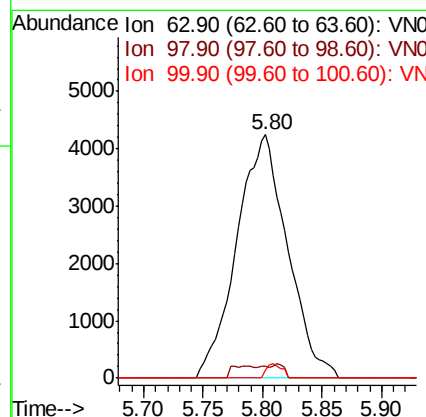
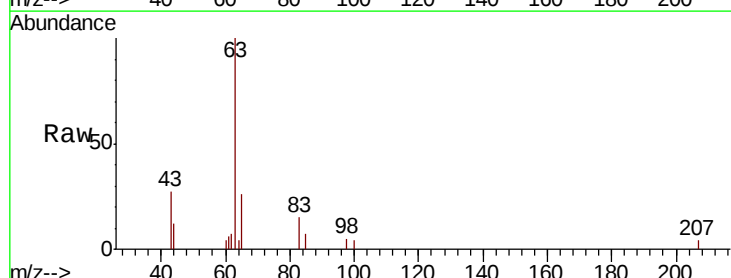
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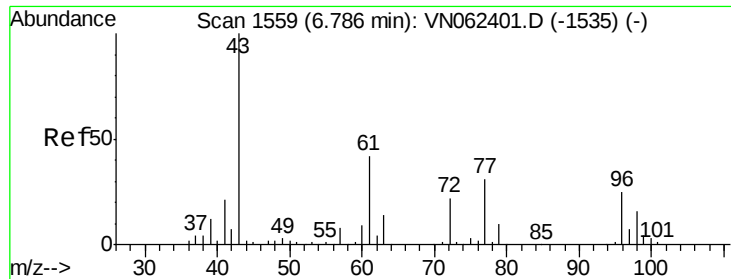
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#24
 1,1-Dichloroethane
 Concen: 2.672 ug/l
 RT: 5.80 min Scan# 1253
 Delta R.T. 0.00 min
 Lab File: VN062489.D
 Acq: 10 Jul 2020 13:30

Tgt Ion	63	Resp	12576
Ion Ratio	Lower	Upper	
63	100		
98	4.8	2.9	8.8
100	3.6	1.8	5.3





#25

2-Butanone

Concen: 12.394 ug/l

RT: 6.80 min Scan# 1562

Delta R.T. 0.01 min

Lab File: VN062489.D

Acq: 10 Jul 2020 13:30

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2020DL

Tot Ion: 43 Resp: 22573

Ion Ratio Lower Upper

43 100

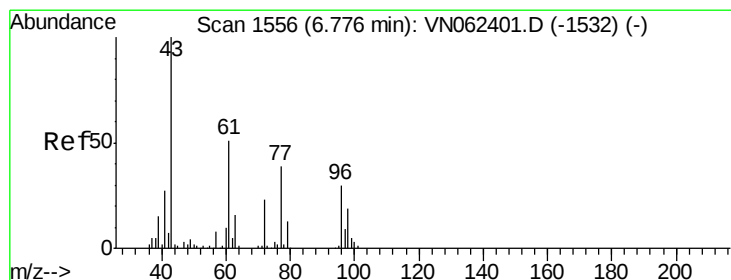
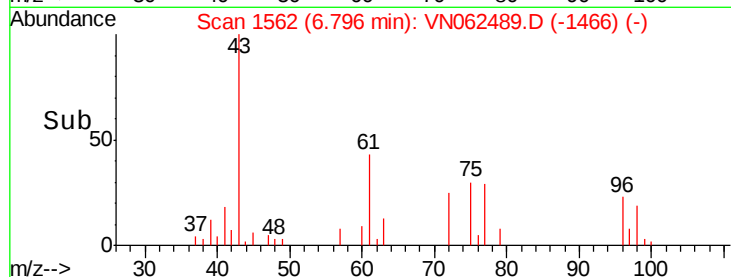
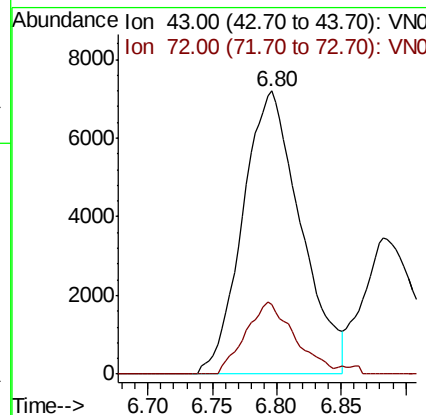
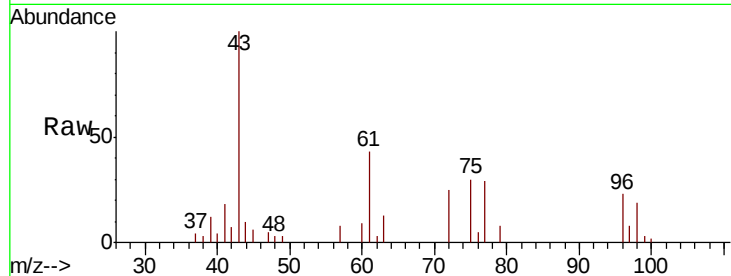
72 24.6 17.9 26.9

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 2.726 ug/l

RT: 6.77 min Scan# 1555

Delta R.T. -0.00 min

Lab File: VN062489.D

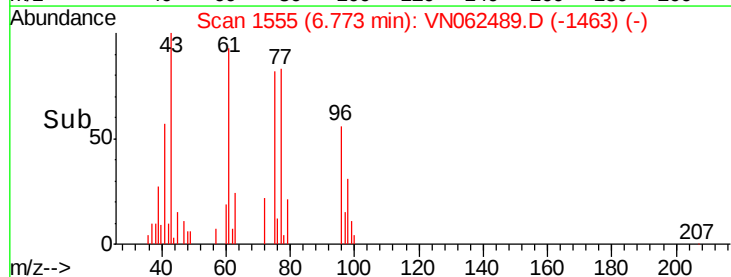
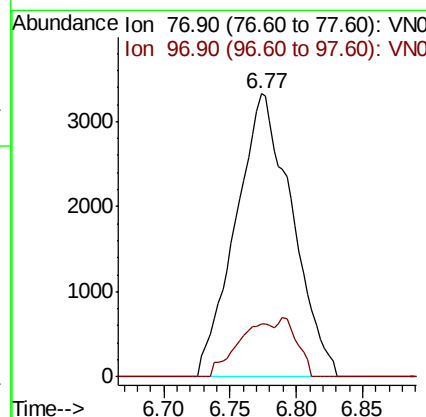
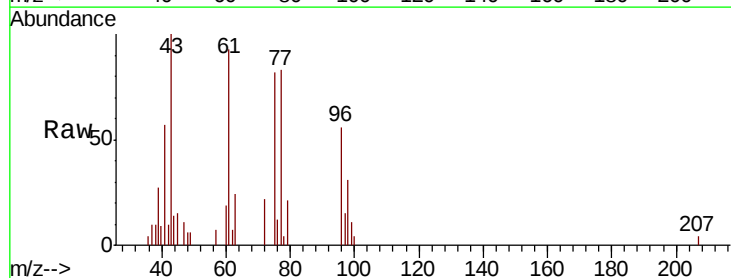
Acq: 10 Jul 2020 13:30

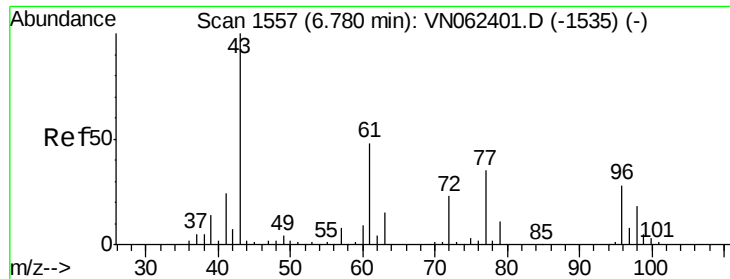
Tgt Ion: 77 Resp: 9838

Ion Ratio Lower Upper

77 100

97 12.7 10.9 32.9





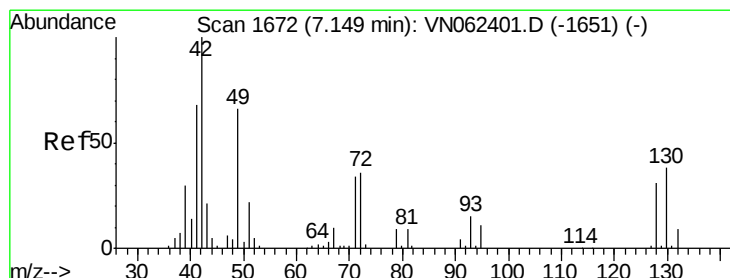
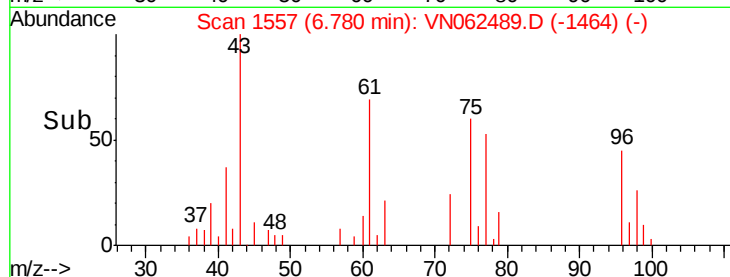
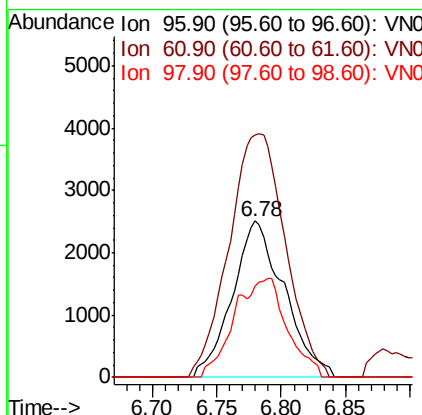
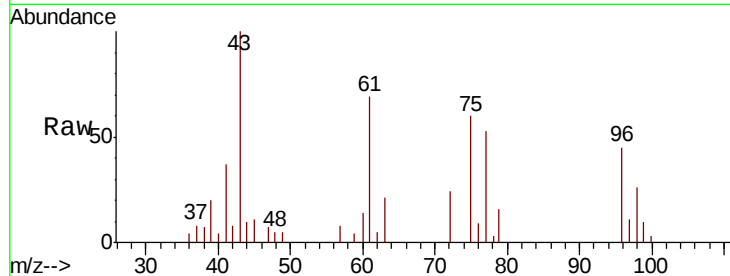
#27
 cis-1,2-Dichloroethene
 Concen: 2.851 ug/l
 RT: 6.78 min Scan# 1557
 Delta R.T. 0.00 min
 Lab File: VN062489.D
 Acq: 10 Jul 2020 13:30

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

Tot Ion	Ratio	Lower	Upper
96	100		
61	169.2	0.0	343.4
98	64.5	0.0	128.4

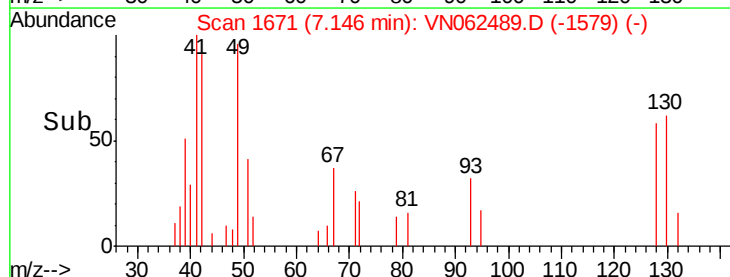
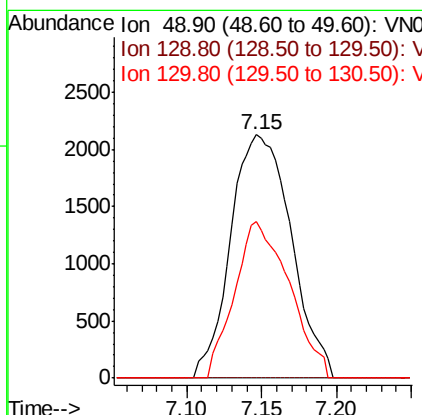
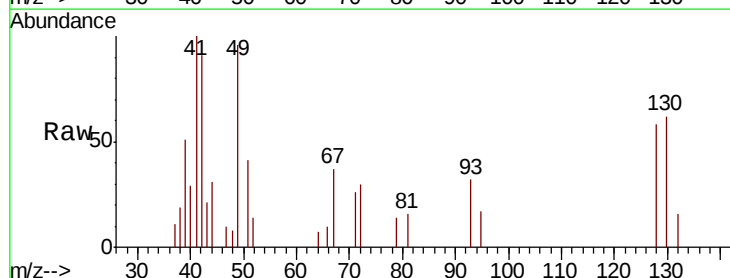
Manual Integrations
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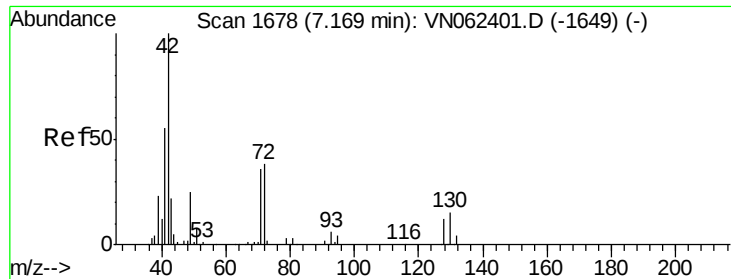
MMDadoda
 7/13/2020 11:19:11 AM



#28
 Bromochloromethane
 Concen: 2.336 ug/l
 RT: 7.15 min Scan# 1671
 Delta R.T. -0.00 min
 Lab File: VN062489.D
 Acq: 10 Jul 2020 13:30

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	2.8
130	58.3	46.5	69.7





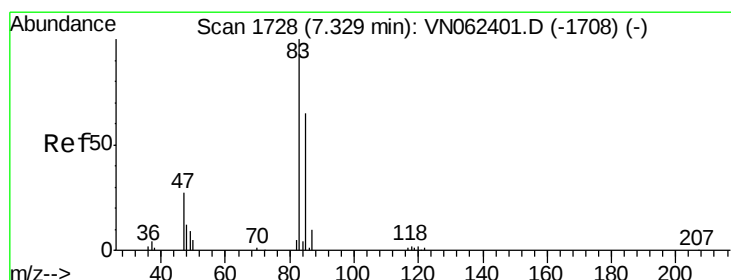
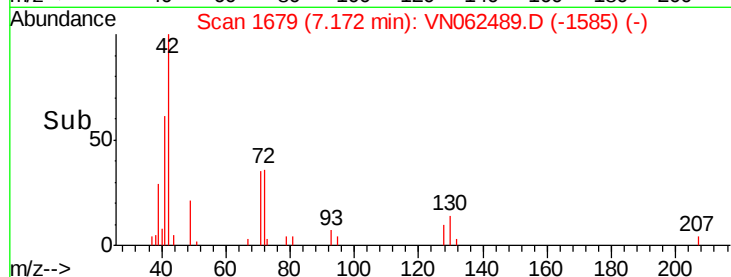
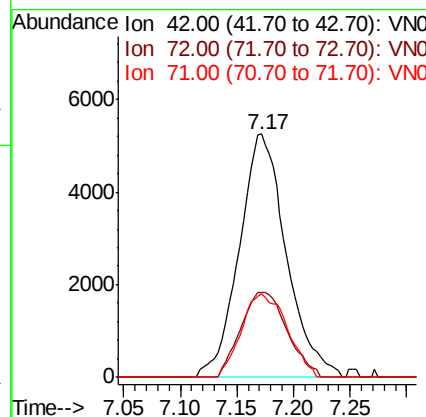
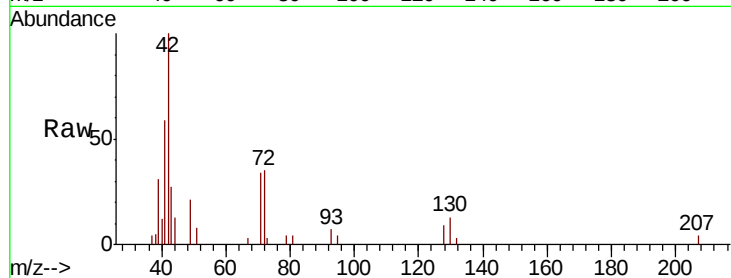
#29
Tetrahydrofuran
Concen: 12.392 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

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

Tot Ion	Ratio	Lower	Upper
42	100		
72	34.4	29.1	43.7
71	33.3	28.1	42.1

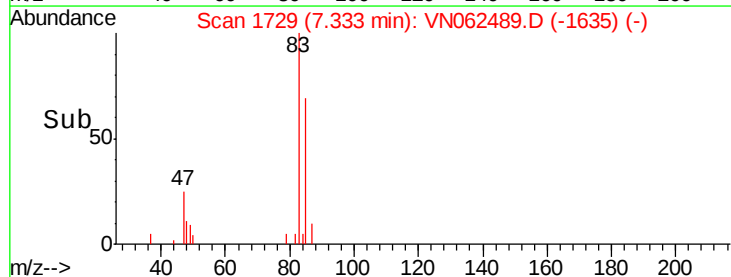
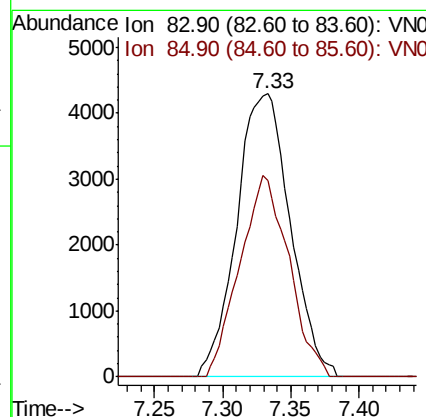
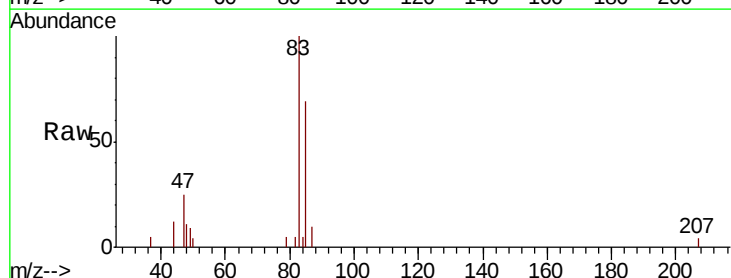
Manual Integrations
APPROVED

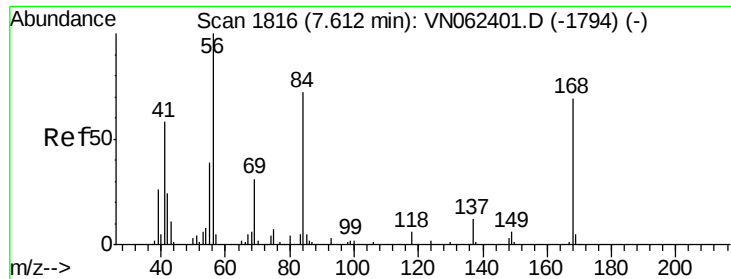
MMDadoda
7/13/2020 11:19:11 AM



#30
Chloroform
Concen: 2.758 ug/l
RT: 7.33 min Scan# 1729
Delta R.T. 0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

Tgt Ion	Ratio	Lower	Upper
83	100		
85	69.5	51.8	77.6





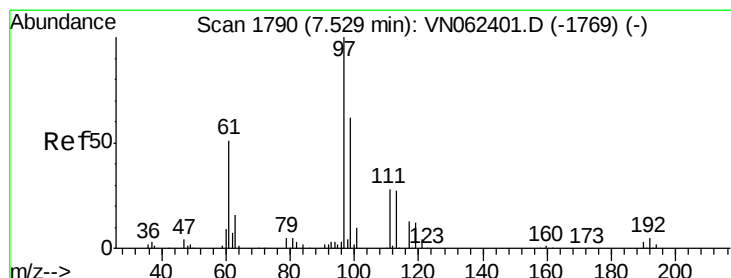
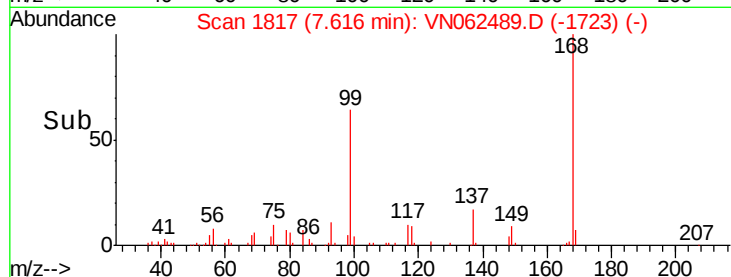
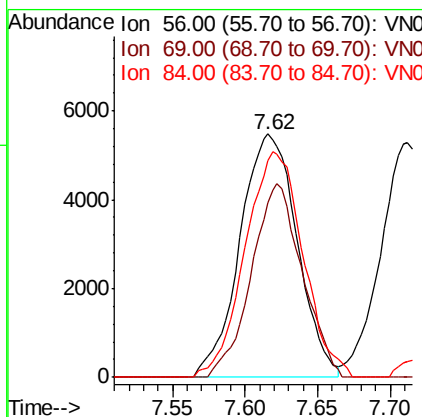
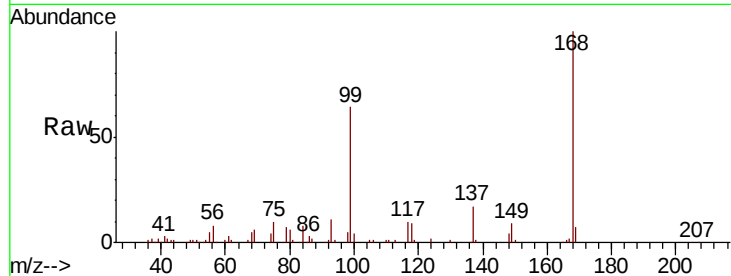
#31
Cyclohexane
Concen: 3.365 ug/l
RT: 7.62 min Scan# 1817
Delta R.T. 0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

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

Tot Ion	Ratio	Lower	Upper
56	100		
69	71.8	24.5	36.7#
84	88.9	57.4	86.2#

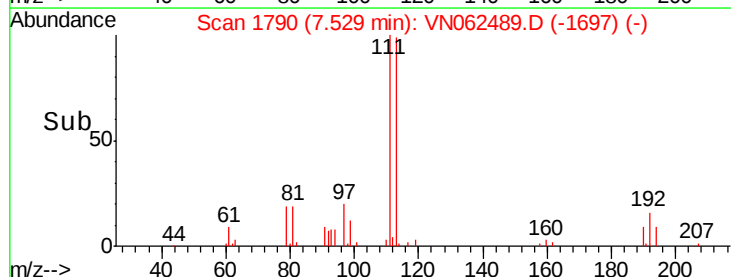
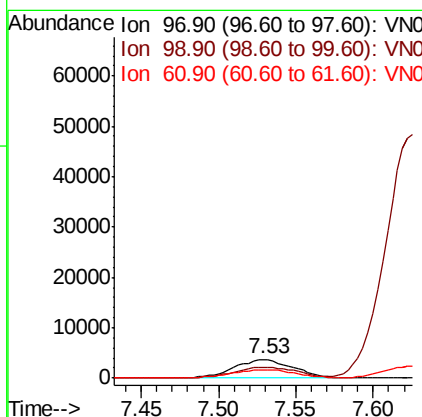
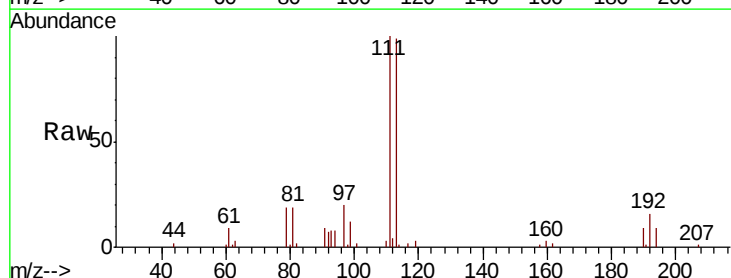
Manual Integrations
APPROVED

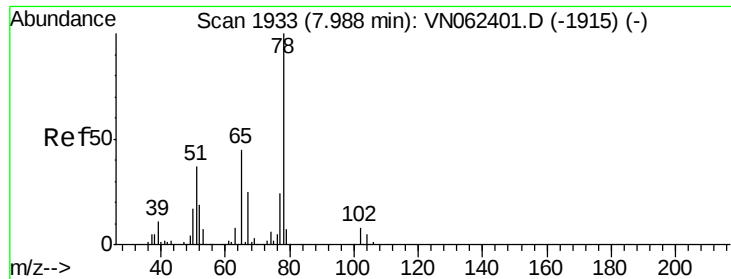
MMDadoda
7/13/2020 11:19:11 AM



#32
1,1,1-Trichloroethane
Concen: 2.723 ug/l
RT: 7.53 min Scan# 1790
Delta R.T. 0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.3	50.4	75.6
61	49.3	39.9	59.9





#33

1,2-Dichloroethane-d4

Concen: 48.585 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN062489.D

Acq: 10 Jul 2020 13:30

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2020DL

Tot Ion: 65 Resp: 142718

Ion Ratio Lower Upper

65 100

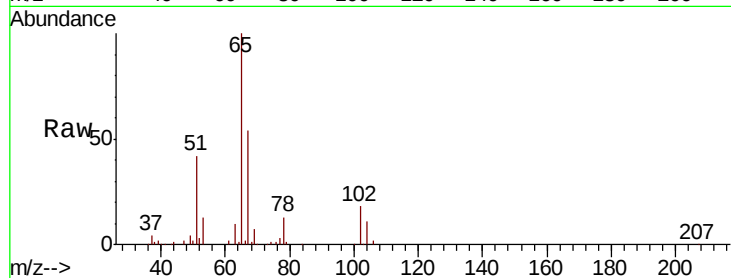
67 54.5 0.0 107.6

Manual Integrations

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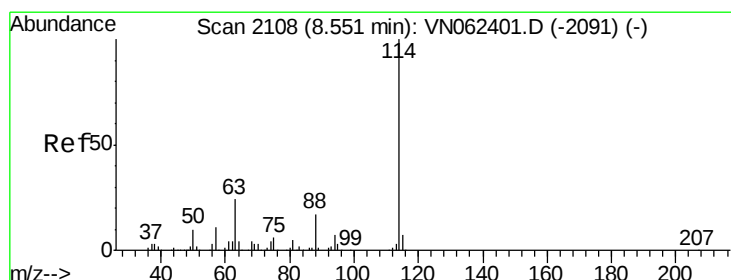
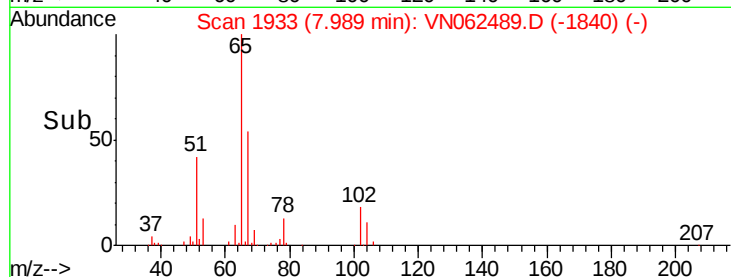
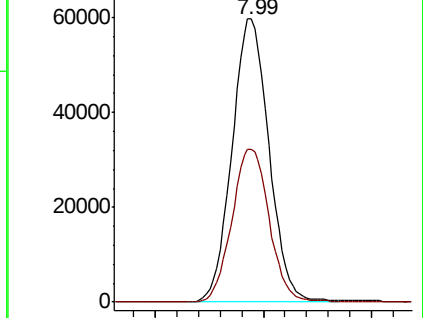
MMDadoda

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Abundance Ion 64.90 (64.60 to 65.60): VN062489.D (-1840) (-)

Ion 66.90 (66.60 to 67.60): VN062489.D (-1840) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. 0.00 min

Lab File: VN062489.D

Acq: 10 Jul 2020 13:30

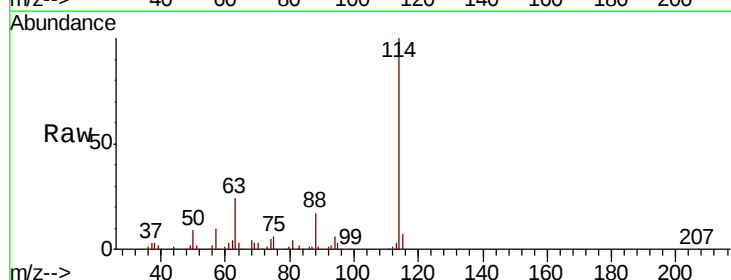
Tgt Ion: 114 Resp: 327910

Ion Ratio Lower Upper

114 100

63 24.1 0.0 48.4

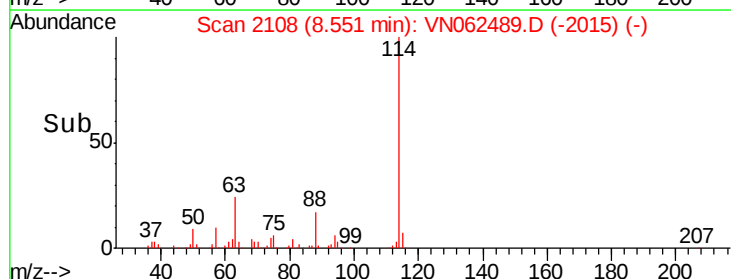
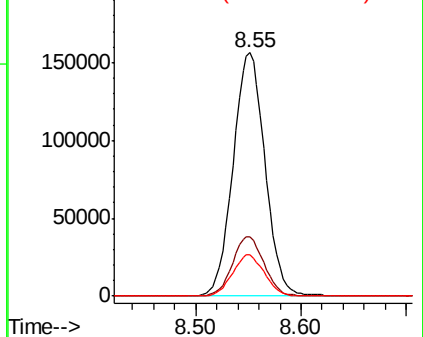
88 16.8 0.0 33.8

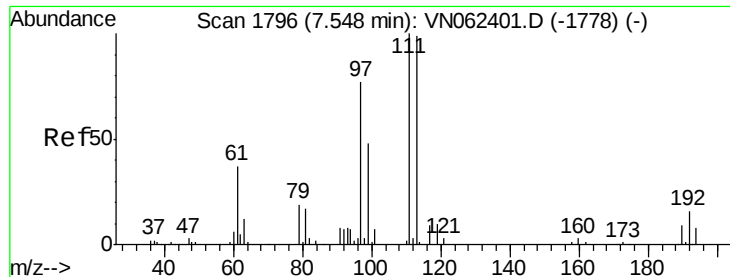


Abundance Ion 113.90 (113.60 to 114.60): VN062489.D (-2155) (-)

Ion 63.00 (62.70 to 63.70): VN062489.D (-2155) (-)

Ion 87.90 (87.60 to 88.60): VN062489.D (-2155) (-)





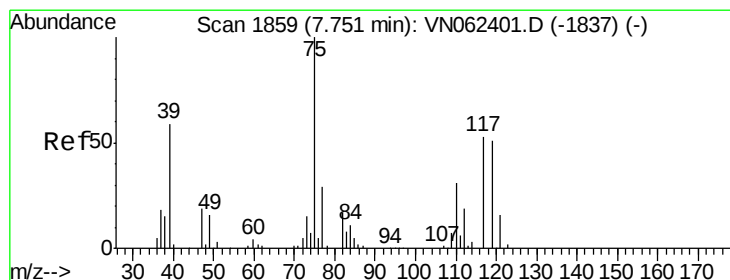
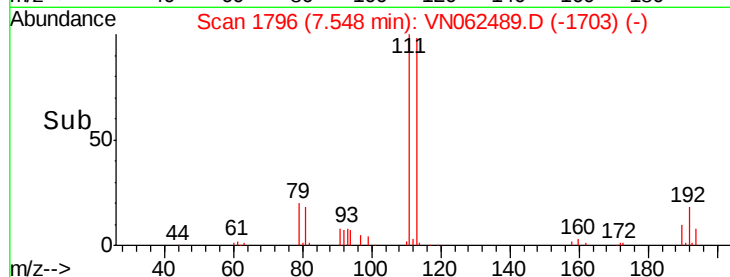
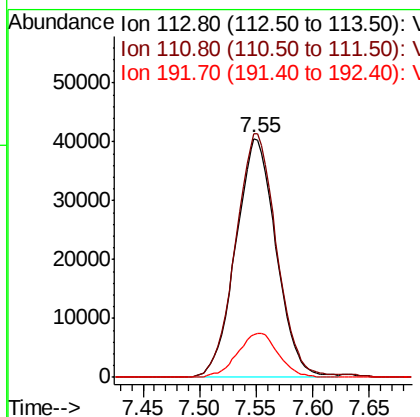
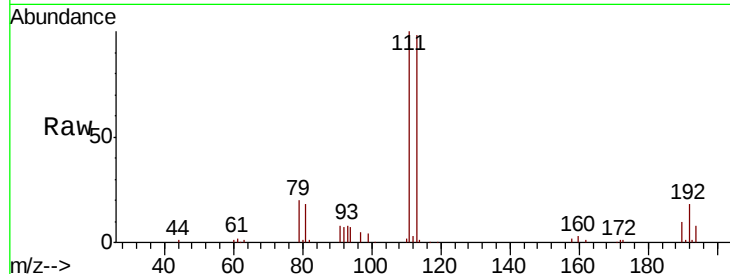
#35
 Dibromofluoromethane
 Concen: 49.709 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN062489.D
 Acq: 10 Jul 2020 13:30

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

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.8	83.1	124.7
192	18.6	14.1	21.1

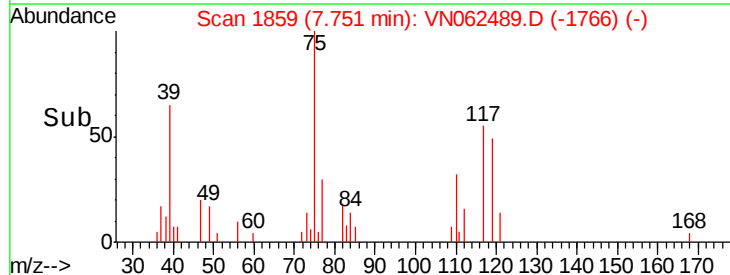
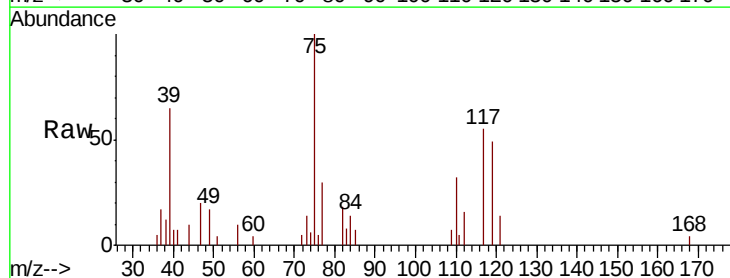
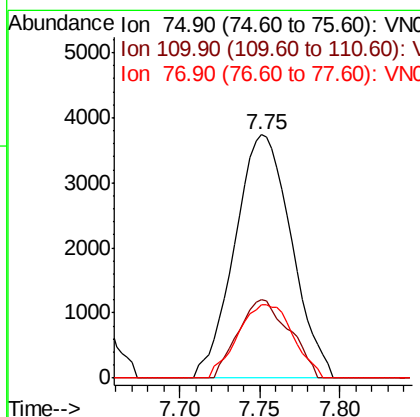
Manual Integrations
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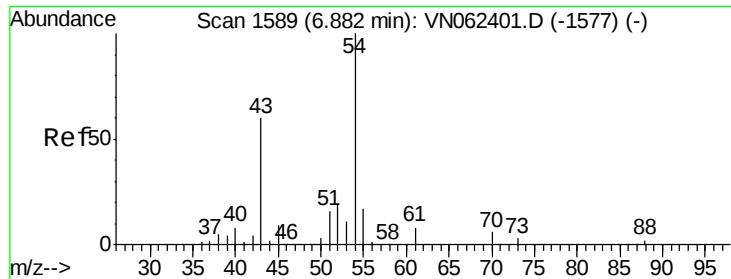
MMDadoda
 7/13/2020 11:19:11 AM



#36
 1,1-Dichloropropene
 Concen: 2.745 ug/l
 RT: 7.75 min Scan# 1859
 Delta R.T. 0.00 min
 Lab File: VN062489.D
 Acq: 10 Jul 2020 13:30

Tgt Ion	Ratio	Lower	Upper
75	100		
110	29.2	15.4	46.2
77	29.5	24.1	36.1





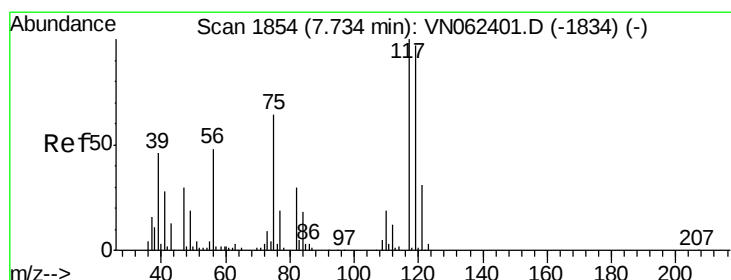
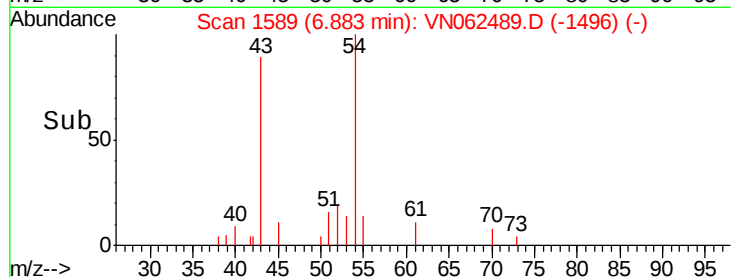
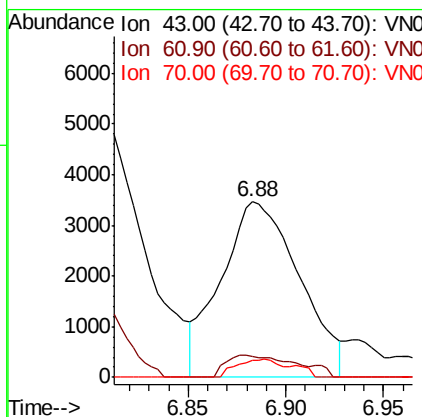
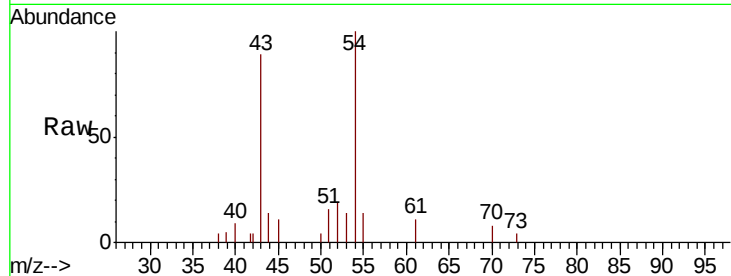
#37
Ethyl Acetate
Concen: 2.517 ug/l m
RT: 6.88 min Scan# 1589
Delta R.T. 0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

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

Tot Ion	Ratio	Lower	Upper
43	100		
61	10.1	10.7	16.1#
70	7.2	7.2	10.8#

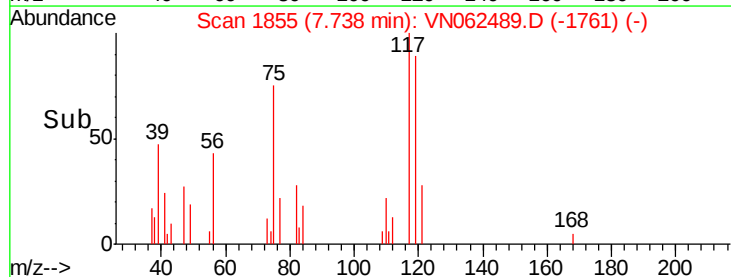
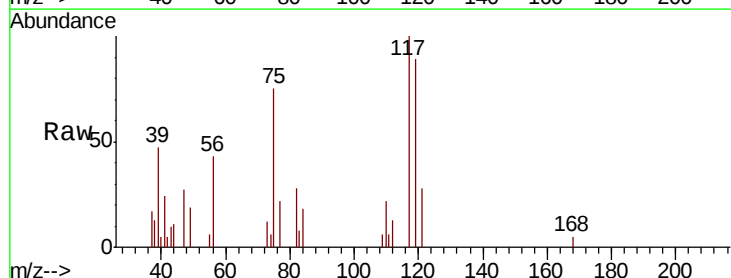
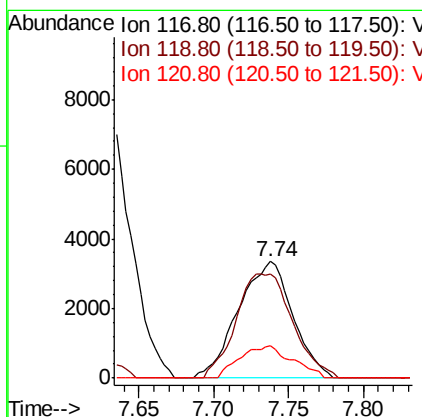
Manual Integrations
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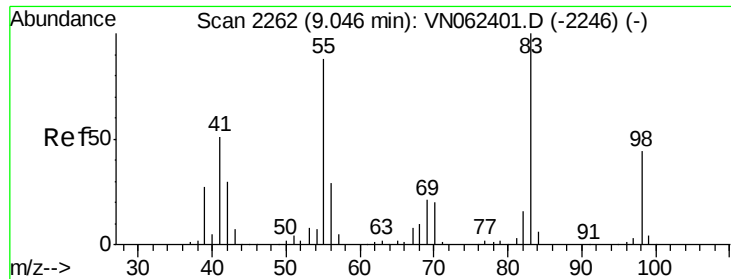
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#38
Carbon Tetrachloride
Concen: 2.852 ug/l
RT: 7.74 min Scan# 1855
Delta R.T. 0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

Tgt Ion	Ratio	Lower	Upper
117	100		
119	88.9	77.2	115.8
121	27.5	24.8	37.2





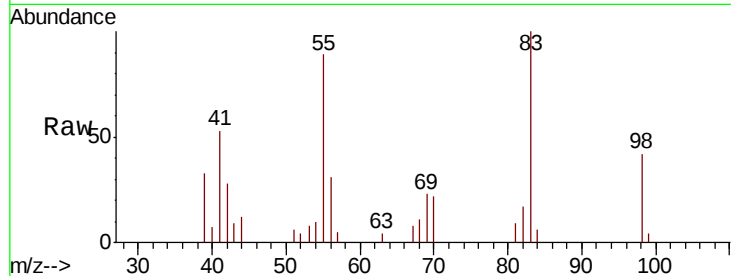
#39
Methvlcvclohexane
Concen: 2.582 ug/l
RT: 9.05 min Scan# 2262
Delta R.T. 0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

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

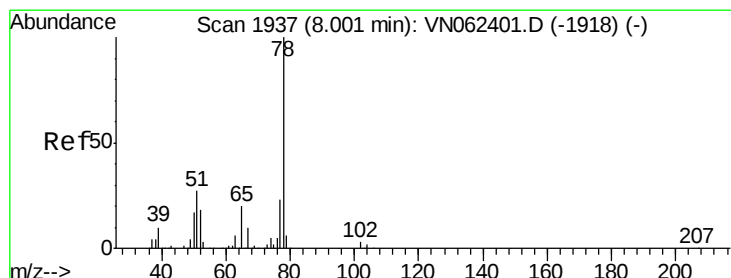
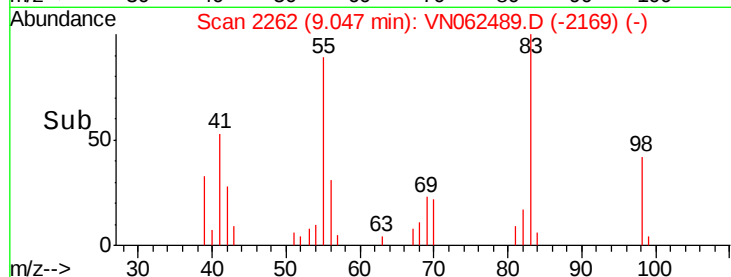
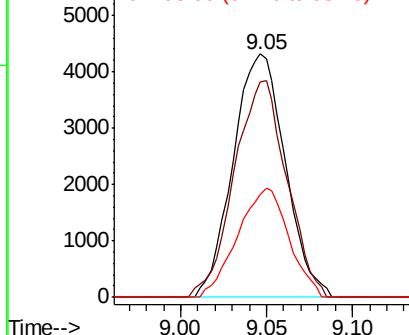
Tot Ion: 83 Resp: 9105
Ion Ratio Lower Upper
83 100
55 88.6 70.5 105.7
98 42.3 35.5 53.3

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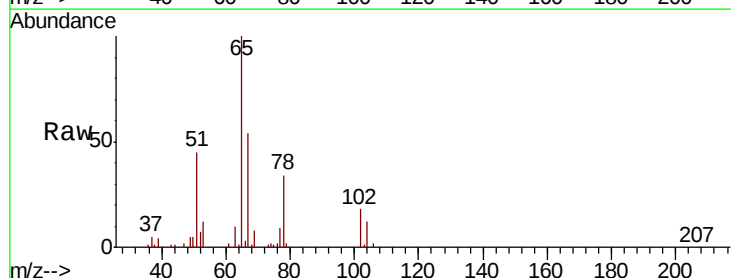


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

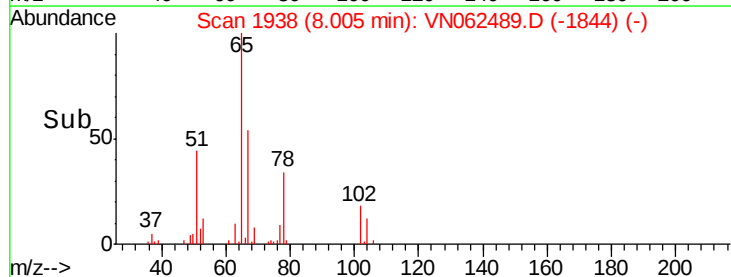
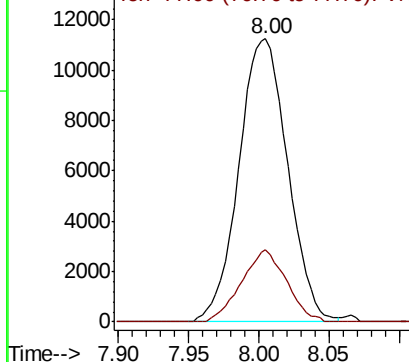


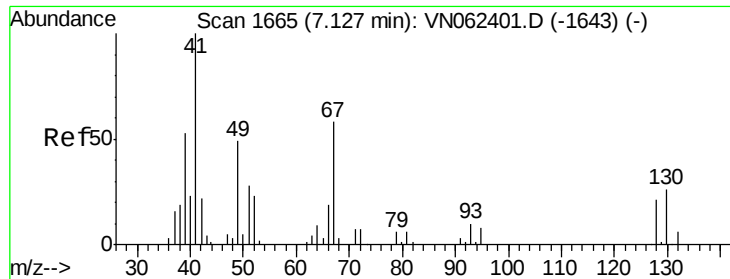
#40
Benzene
Concen: 2.789 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

Tgt Ion: 78 Resp: 27159
Ion Ratio Lower Upper
78 100
77 25.6 18.7 28.1



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





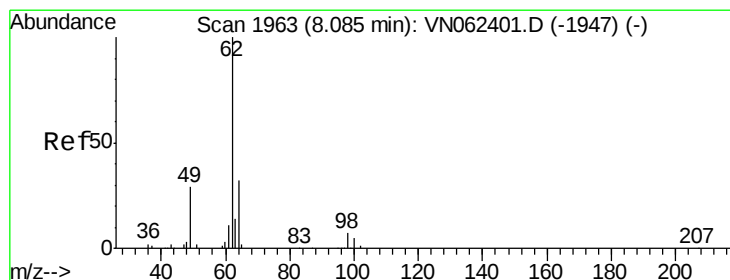
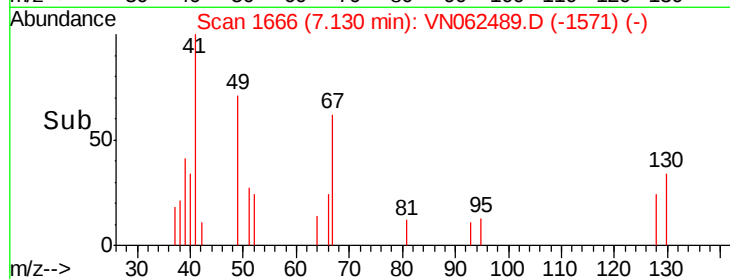
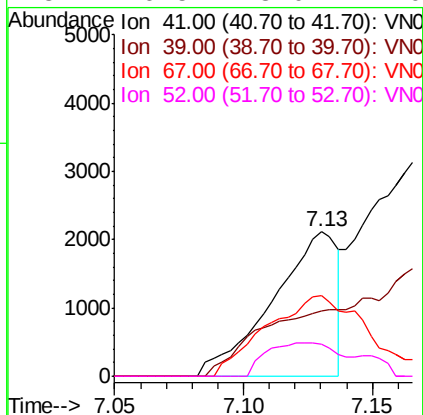
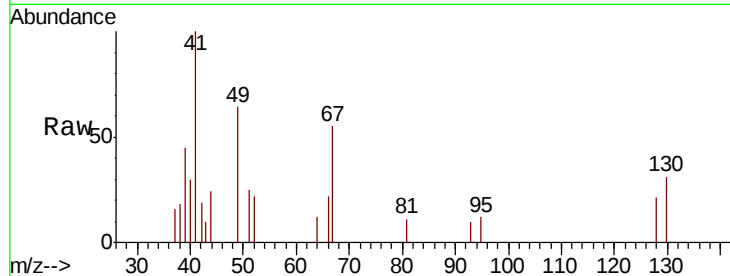
#41
Methacrylonitrile
Concen: 2.285 ug/l
RT: 7.13 min Scan# 1666
Delta R.T. 0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

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

Tot Ion	Ratio	Lower	Upper
41	100		
39	0.0	50.2	75.2#
67	87.6	64.2	96.2
52	26.5	28.0	42.0#

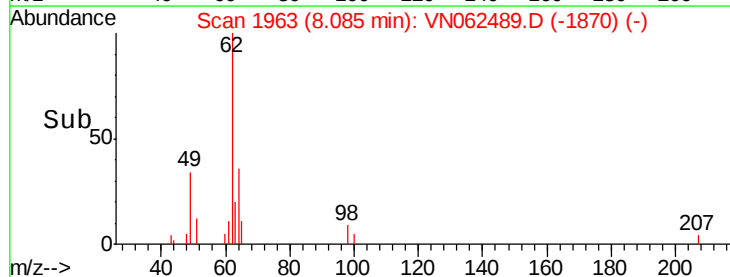
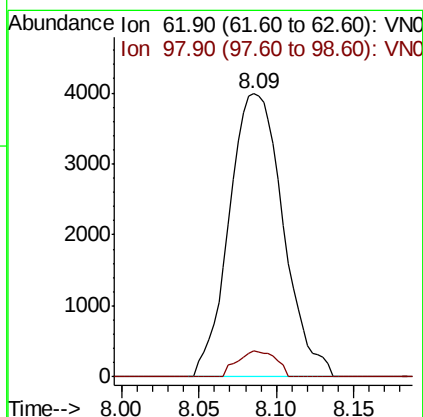
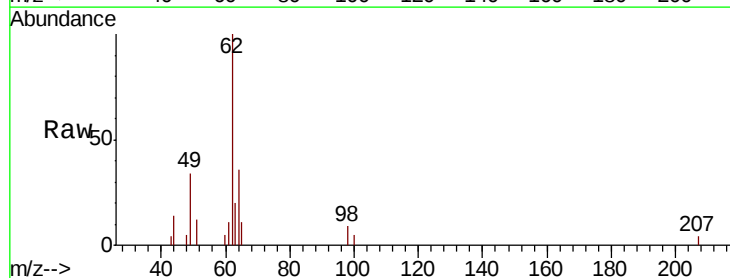
Manual Integrations
APPROVED

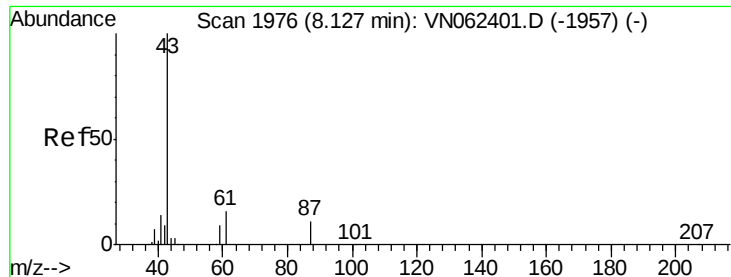
MMDadoda
7/13/2020 11:19:11 AM



#42
1,2-Dichloroethane
Concen: 2.706 ug/l
RT: 8.09 min Scan# 1963
Delta R.T. 0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

Tgt Ion	Ratio	Lower	Upper
62	100		
98	6.5	0.0	15.8





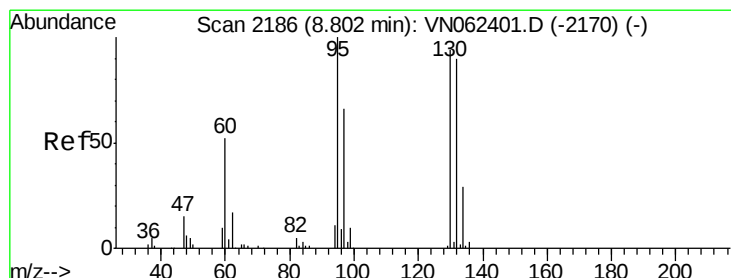
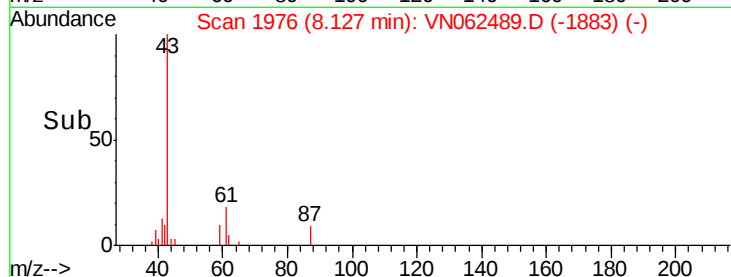
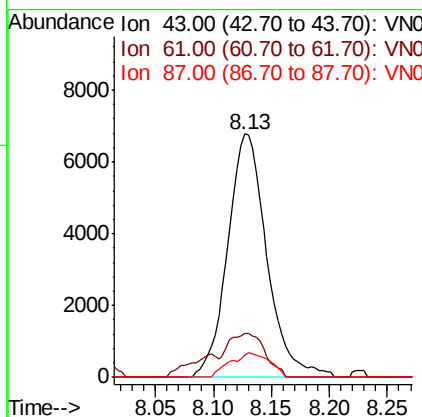
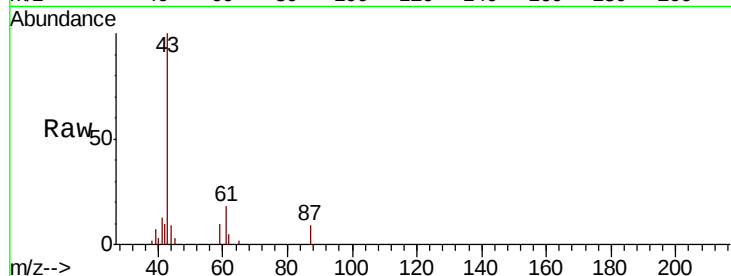
#43
Isopropyl Acetate
Concen: 2.601 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

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

Tot Ion	Ratio	Lower	Upper
43	100		
61	17.2	19.3	28.9#
87	10.0	8.6	13.0

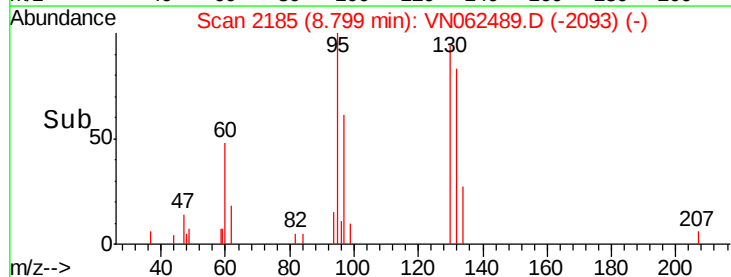
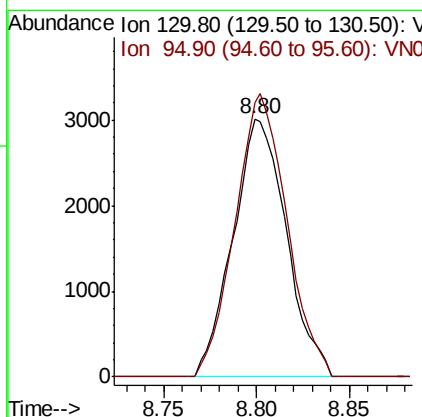
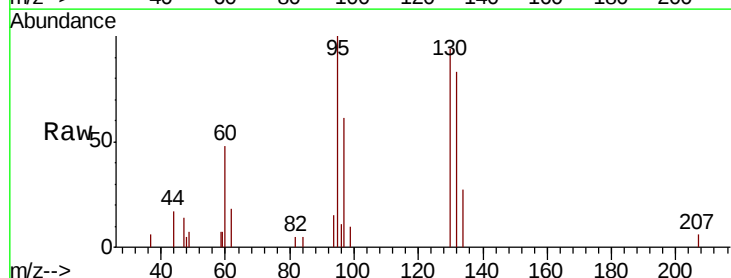
Manual Integrations
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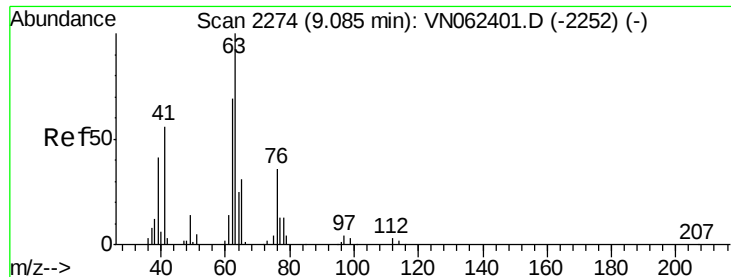
MMDadoda
7/13/2020 11:19:11 AM



#44
Trichloroethene
Concen: 2.782 ug/l
RT: 8.80 min Scan# 2185
Delta R.T. -0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

Tgt Ion	Ratio	Lower	Upper
130	100		
95	106.2	0.0	213.8





#45

1,2-Dichloropropane

Concen: 2.703 ug/l

RT: 9.09 min Scan# 2274

Delta R.T. 0.00 min

Lab File: VN062489.D

Acq: 10 Jul 2020 13:30

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2020DL

Tot Ion: 63 Resp: 7641

Ion Ratio Lower Upper

63 100

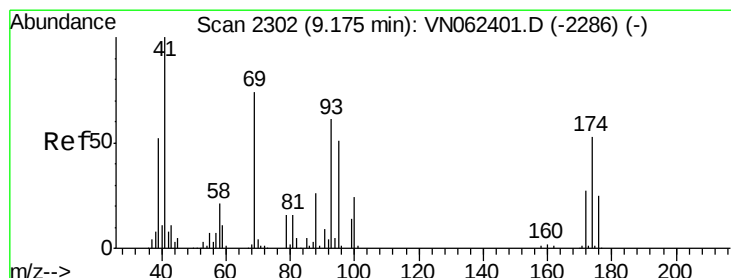
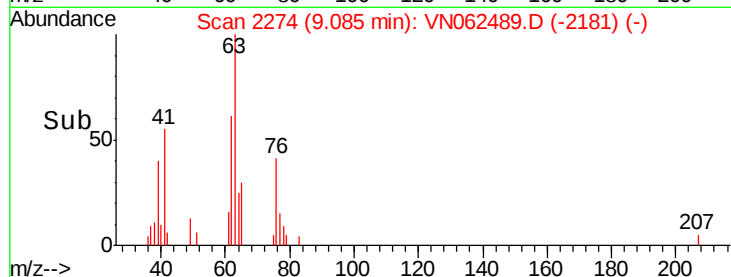
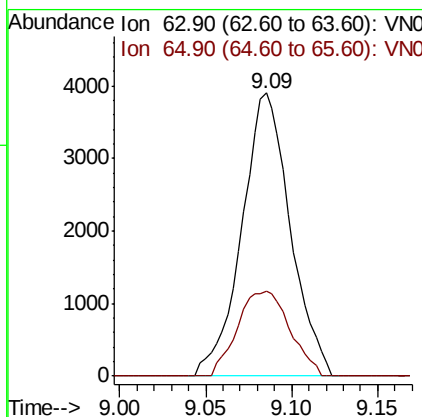
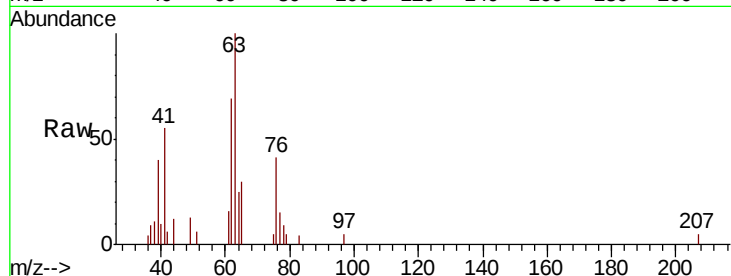
65 29.9 24.6 36.8

Manual Integrations

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#46

Dibromomethane

Concen: 2.839 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. 0.00 min

Lab File: VN062489.D

Acq: 10 Jul 2020 13:30

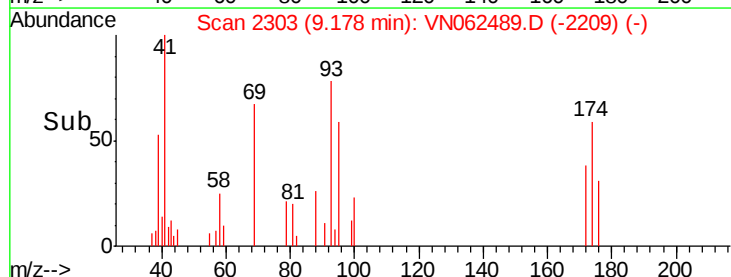
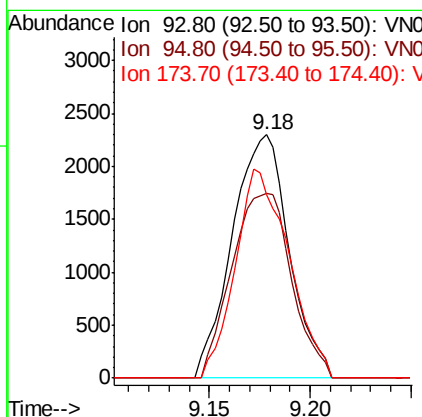
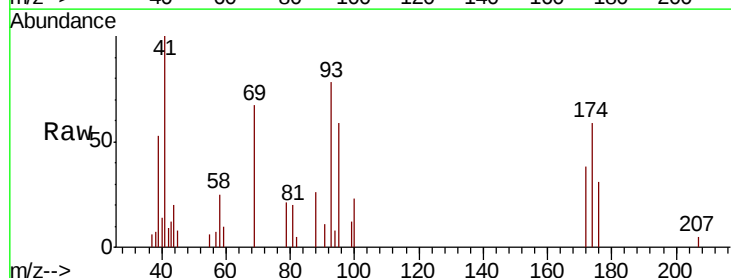
Tgt Ion: 93 Resp: 4528

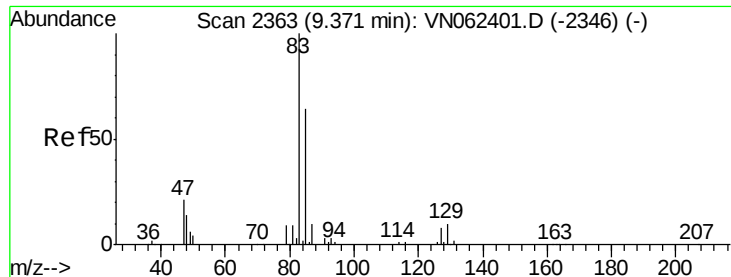
Ion Ratio Lower Upper

93 100

95 79.9 67.1 100.7

174 81.0 70.4 105.6





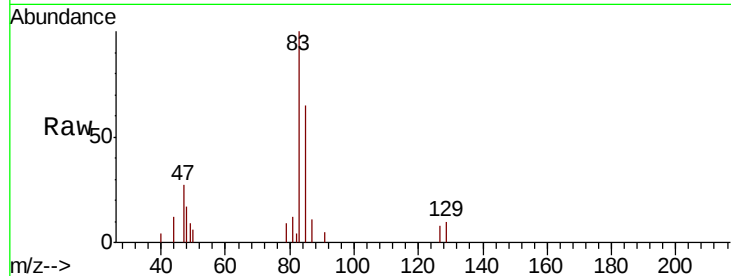
#47
Bromodichloromethane
Concen: 2.546 ug/l
RT: 9.37 min Scan# 2363
Delta R.T. 0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

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

Tot Ion	Ratio	Lower	Upper
83	100		
85	65.3	51.2	76.8
127	7.7	6.2	9.2

Manual Integrations
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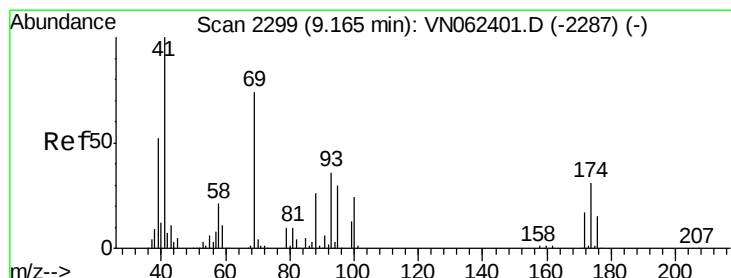
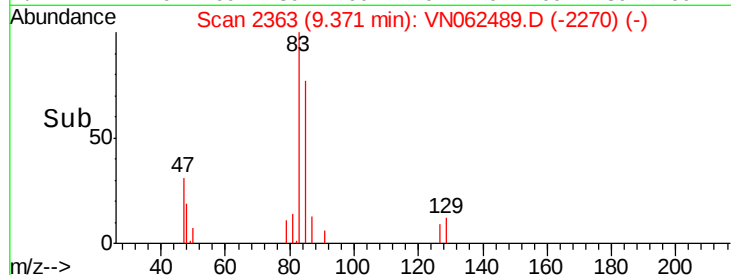
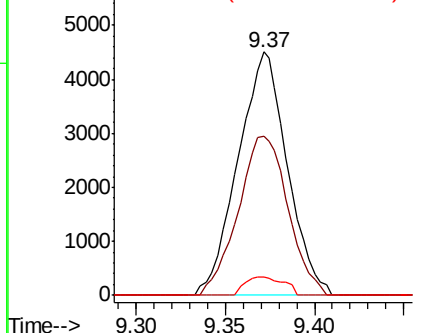


Abundance

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) (-)



#48
Methyl methacrylate
Concen: 2.642 ug/l
RT: 9.17 min Scan# 2300
Delta R.T. 0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

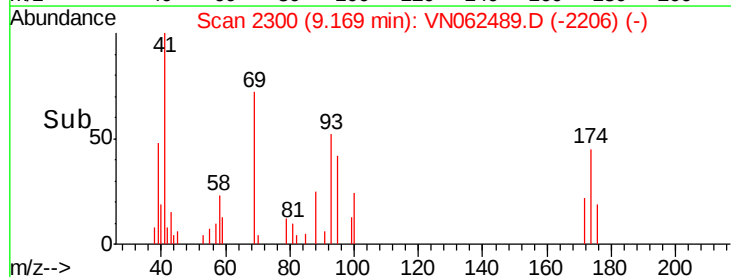
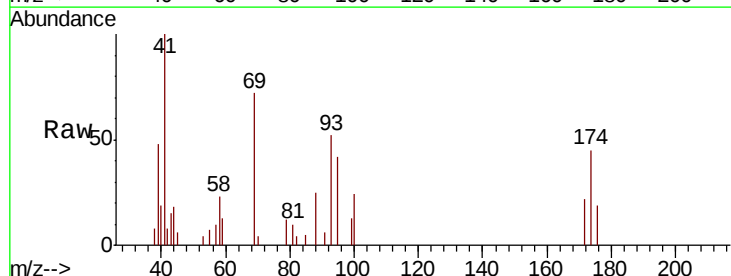
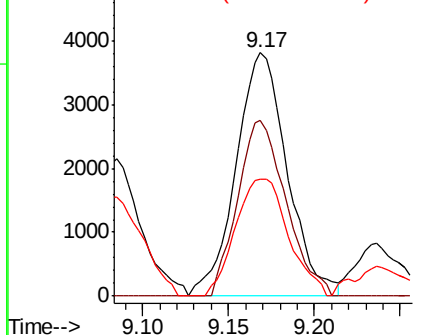
Tgt Ion	Ratio	Lower	Upper
41	100		
69	68.1	60.8	91.2
39	49.6	43.5	65.3

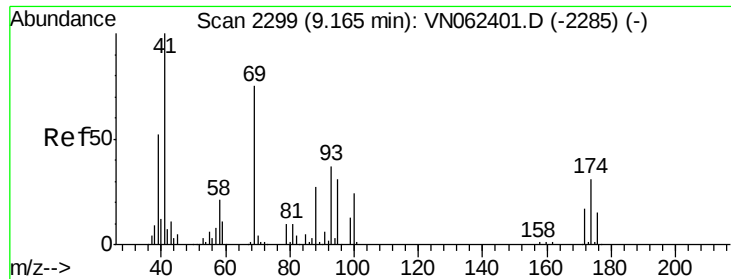
Abundance

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) (-)





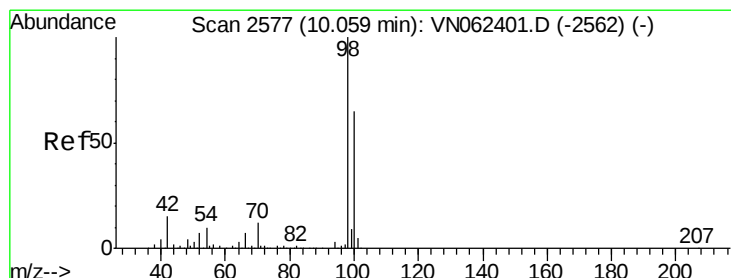
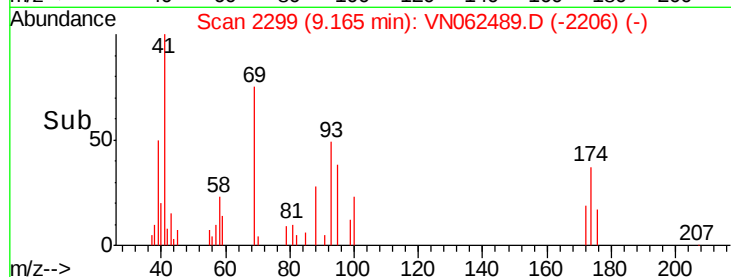
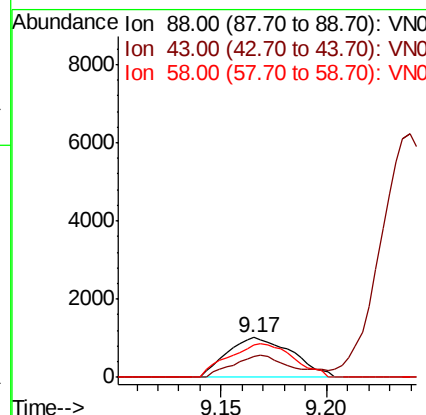
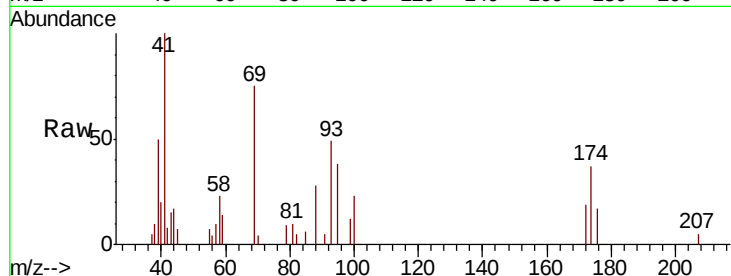
#49
1,4-Dioxane
Concen: 50.149 ug/l
RT: 9.17 min Scan# 2299
Delta R.T. 0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

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

Tot Ion	Ratio	Lower	Upper
88	100		
43	51.4	31.0	46.4#
58	84.3	63.3	94.9

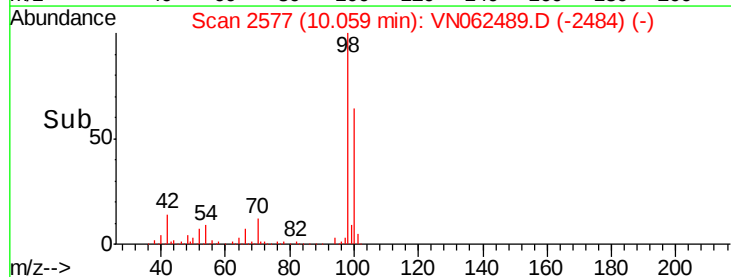
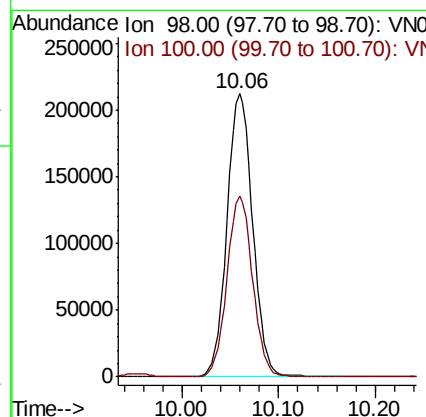
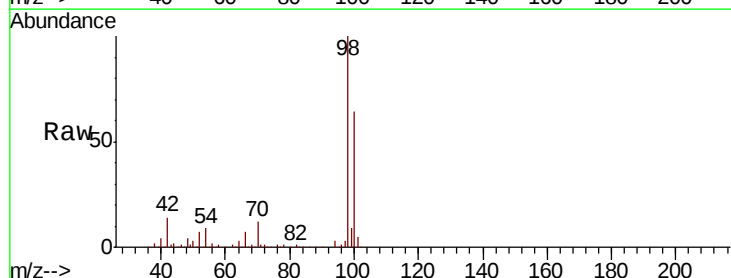
Manual Integrations
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#50
Toluene-d8
Concen: 48.983 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.7	51.5	77.3





#51

4-Methyl-2-Pentanone

Concen: 12.455 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. 0.00 min

Lab File: VN062489.D

Acq: 10 Jul 2020 13:30

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2020DL

Tot Ion: 43 Resp: 45397

Ion Ratio Lower Upper

43 100

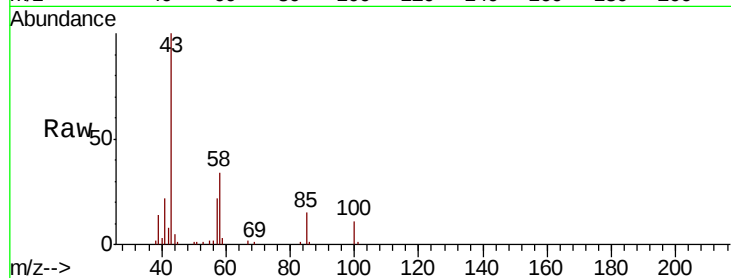
58 34.4 29.0 43.6

Manual Integrations

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7/13/2020 11:19:11 AM



Abundance Ion 43.00 (42.70 to 43.70): VN062401.D (-2527) (-)

Ion 58.00 (57.70 to 58.70): VN062401.D (-2527) (-)

25000

20000

15000

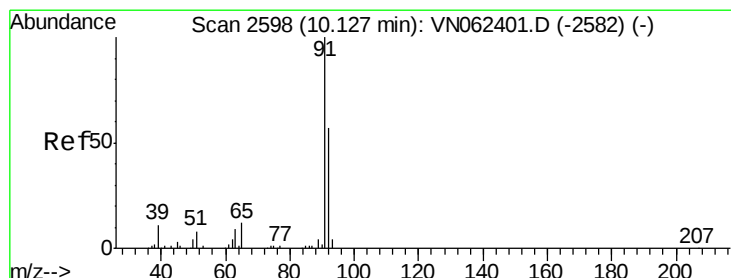
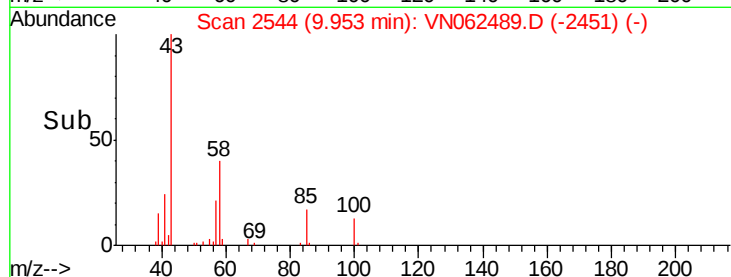
10000

5000

0

9.90 9.95 10.00

Time-->



#52

Toluene

Concen: 2.785 ug/l

RT: 10.13 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VN062489.D

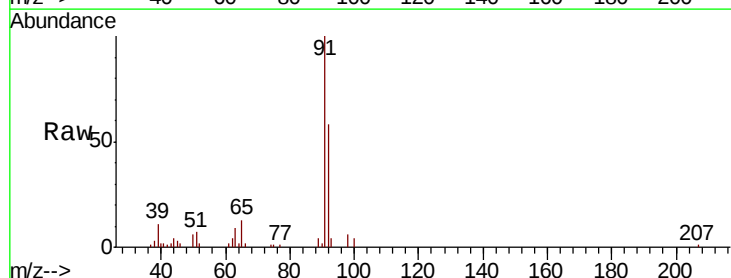
Acq: 10 Jul 2020 13:30

Tgt Ion: 92 Resp: 15664

Ion Ratio Lower Upper

92 100

91 176.6 141.0 211.6



Abundance Ion 92.00 (91.70 to 92.70): VN062489.D (-2505) (-)

Ion 91.00 (90.70 to 91.70): VN062489.D (-2505) (-)

15000

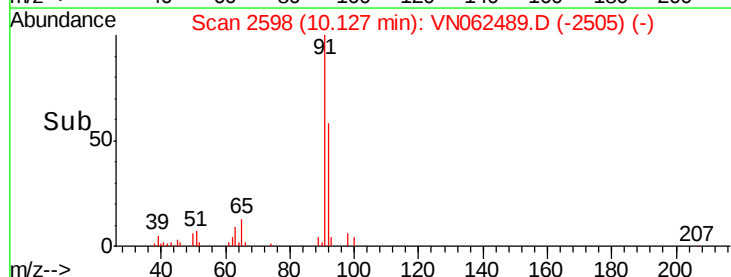
10000

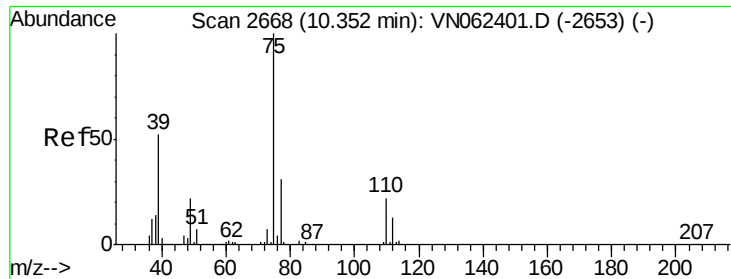
5000

0

10.05 10.10 10.15

Time-->





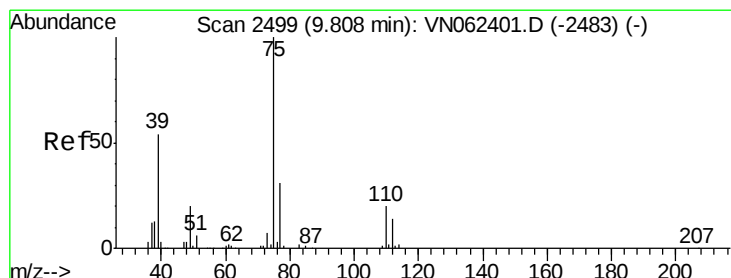
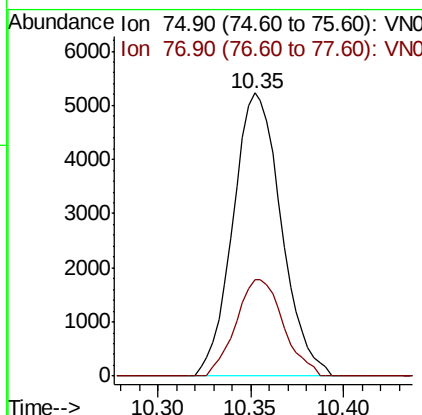
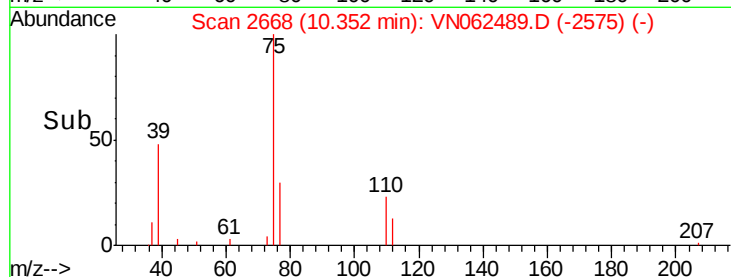
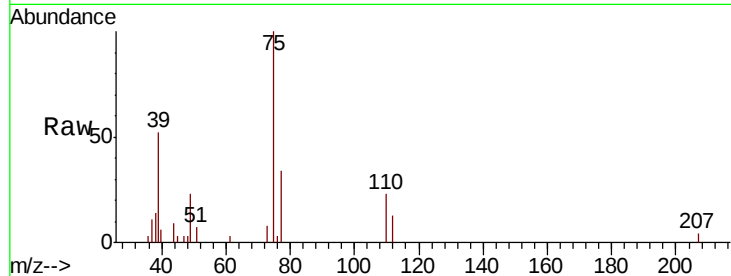
#53
t-1,3-Dichloropropene
Concen: 2.478 ug/l
RT: 10.35 min Scan# 2668
Delta R.T. 0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

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

Tot Ion: 75 Resp: 9468
Ion Ratio Lower Upper
75 100
77 33.9 25.2 37.8

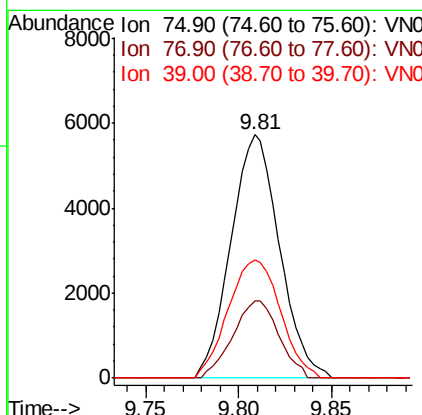
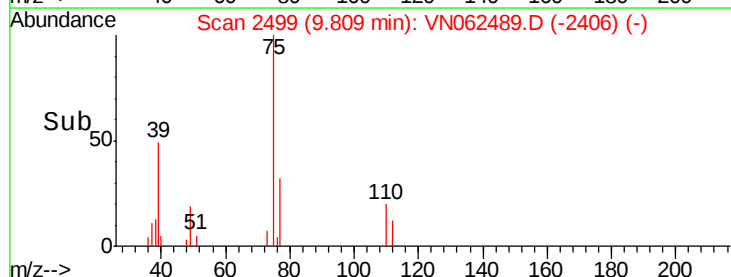
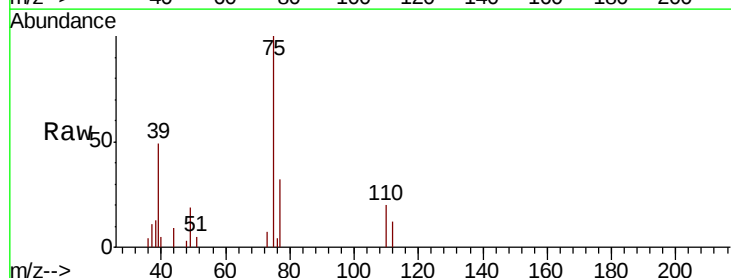
Manual Integrations
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7/13/2020 11:19:11 AM



#54
cis-1,3-Dichloropropene
Concen: 2.476 ug/l
RT: 9.81 min Scan# 2499
Delta R.T. 0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

Tgt Ion: 75 Resp: 10437
Ion Ratio Lower Upper
75 100
77 31.8 24.5 36.7
39 48.8 43.4 65.0





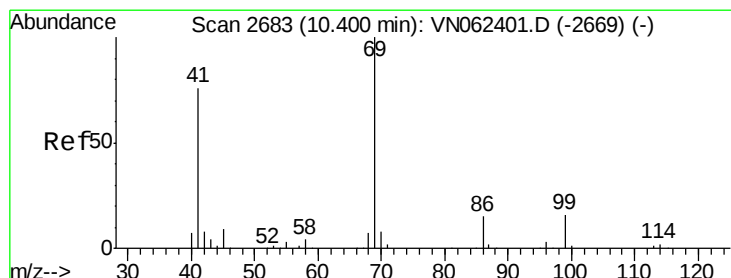
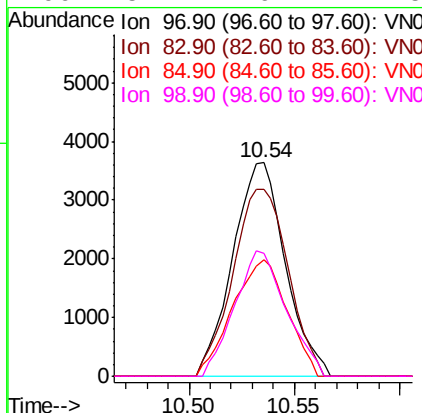
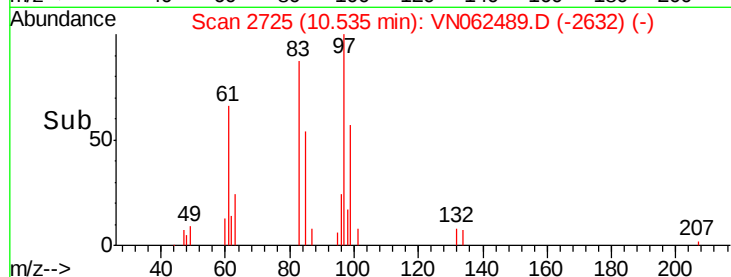
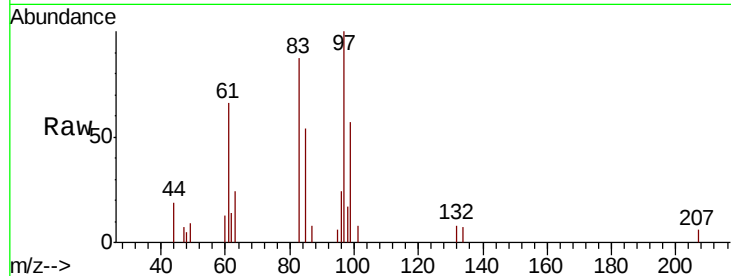
#55
 1,1,2-Trichloroethane
 Concen: 2.855 ug/l
 RT: 10.54 min Scan# 2725
 Delta R.T. 0.00 min
 Lab File: VN062489.D
 Acq: 10 Jul 2020 13:30

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

Tot Ion	Ratio	Lower	Upper
97	100		
83	87.4	71.0	106.4
85	54.4	46.2	69.4
99	57.4	49.7	74.5

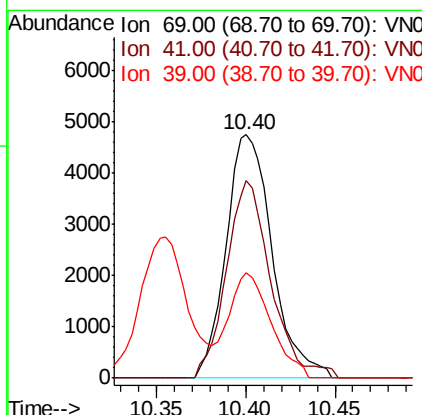
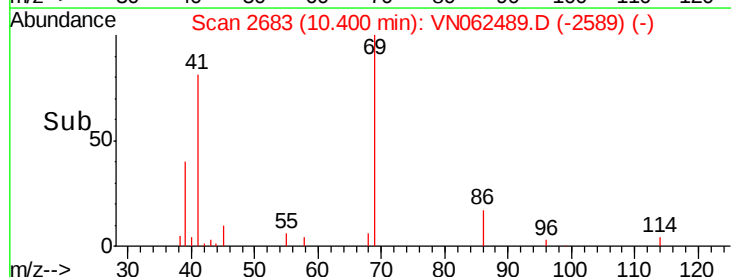
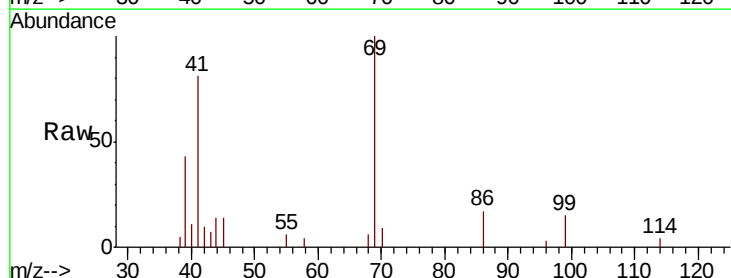
Manual Integrations
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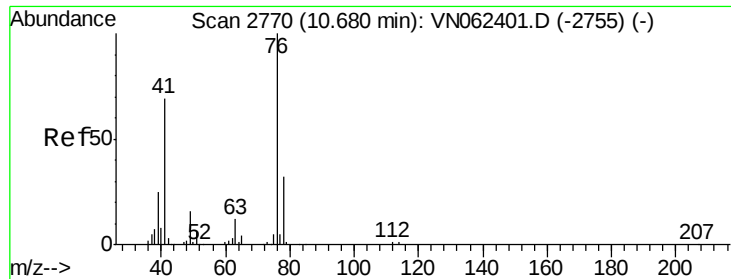
MMDadoda
 7/13/2020 11:19:11 AM



#56
 Ethyl methacrylate
 Concen: 2.320 ug/l
 RT: 10.40 min Scan# 2683
 Delta R.T. 0.00 min
 Lab File: VN062489.D
 Acq: 10 Jul 2020 13:30

Tgt Ion	Ratio	Lower	Upper
69	100		
41	78.1	59.7	89.5
39	40.0	30.6	45.8





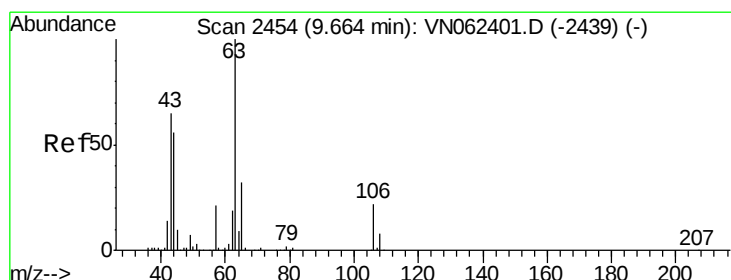
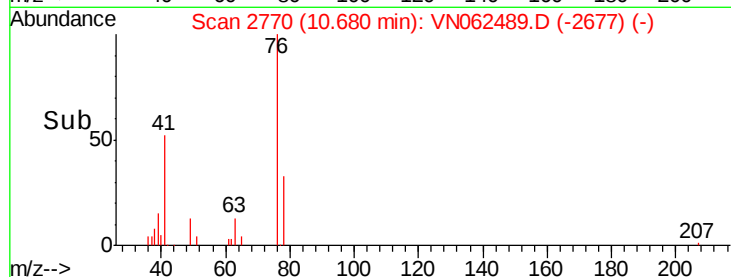
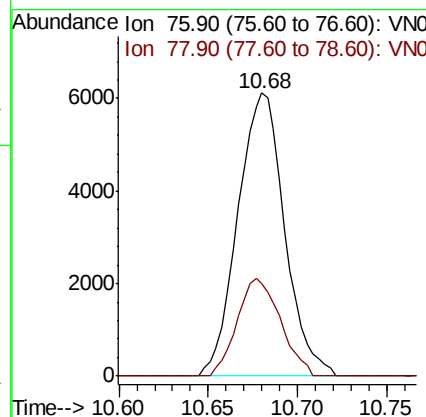
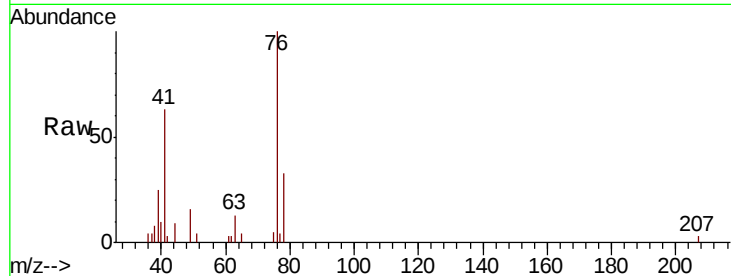
#57
 1,3-Dichloropropane
 Concen: 2.731 ug/l
 RT: 10.68 min Scan# 2770
 Delta R.T. 0.00 min
 Lab File: VN062489.D
 Acq: 10 Jul 2020 13:30

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

Tot Ion: 76 Resp: 11159
 Ion Ratio Lower Upper
 76 100
 78 31.9 25.6 38.4

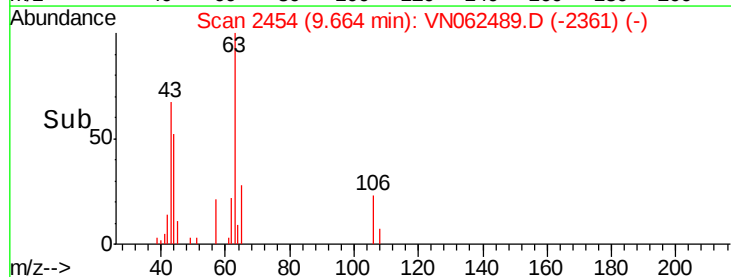
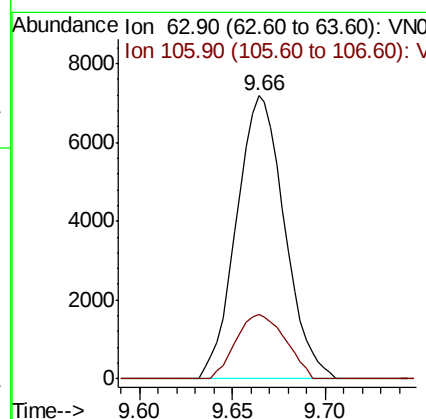
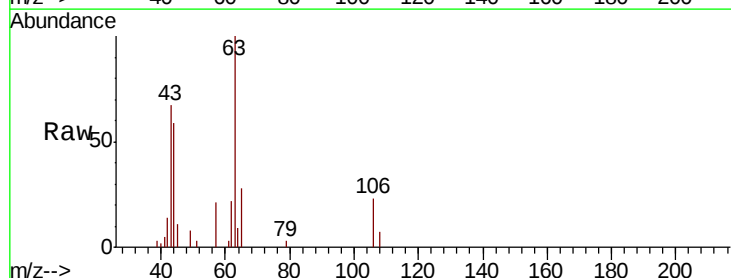
Manual Integrations
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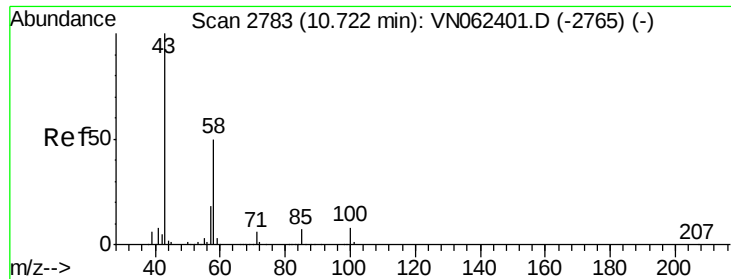
MMDadoda
 7/13/2020 11:19:11 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 9.837 ug/l
 RT: 9.66 min Scan# 2454
 Delta R.T. 0.00 min
 Lab File: VN062489.D
 Acq: 10 Jul 2020 13:30

Tgt Ion: 63 Resp: 12909
 Ion Ratio Lower Upper
 63 100
 106 23.3 17.6 26.4





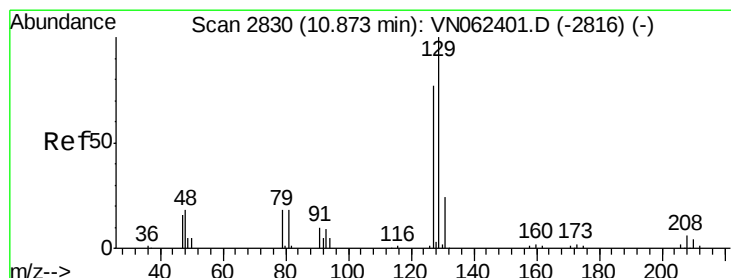
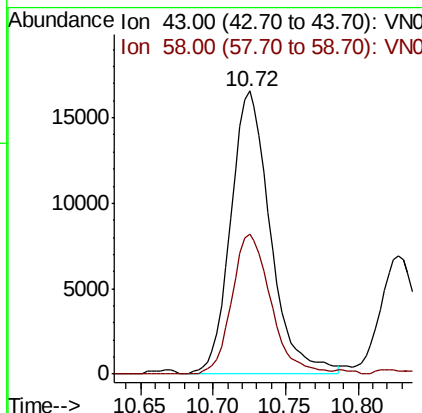
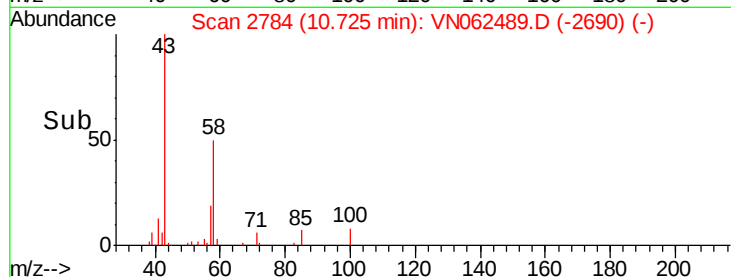
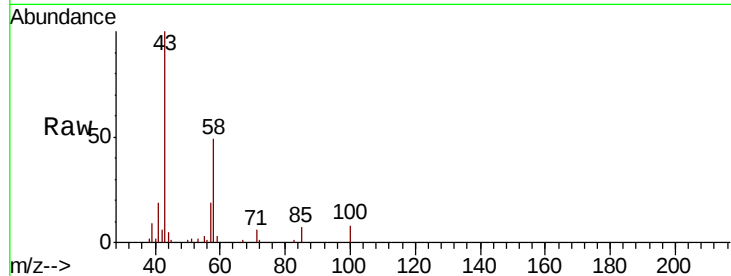
#59
2-Hexanone
Concen: 11.903 ug/l
RT: 10.72 min Scan# 2784
Delta R.T. 0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

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

Tot Ion: 43 Resp: 31496
Ion Ratio Lower Upper
43 100
58 48.2 25.1 75.2

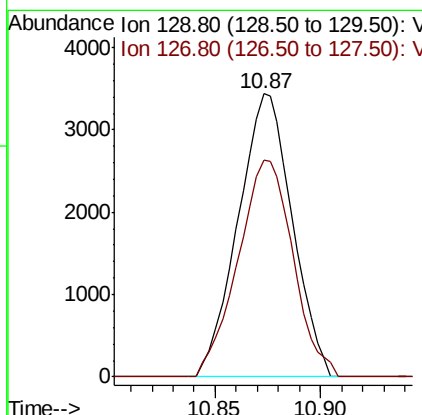
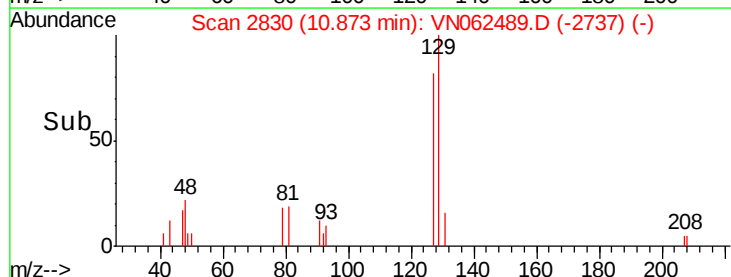
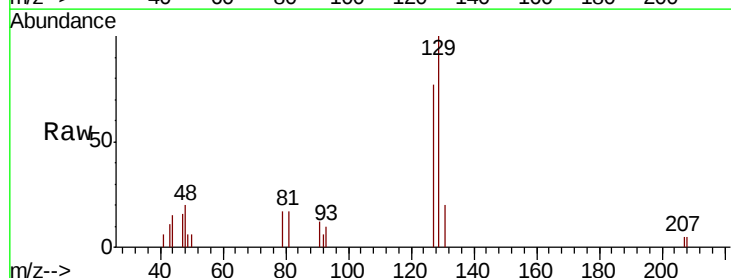
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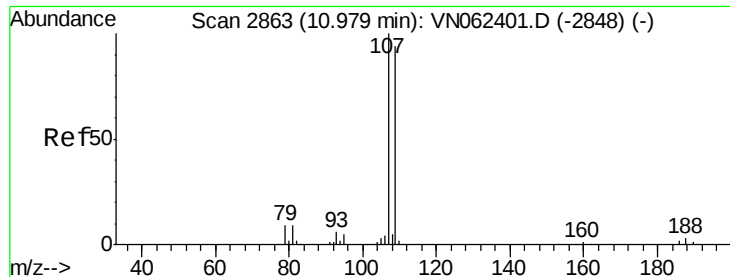
MMDadoda
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#60
Dibromochloromethane
Concen: 2.556 ug/l
RT: 10.87 min Scan# 2830
Delta R.T. 0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

Tgt Ion: 129 Resp: 6129
Ion Ratio Lower Upper
129 100
127 77.8 38.6 115.8





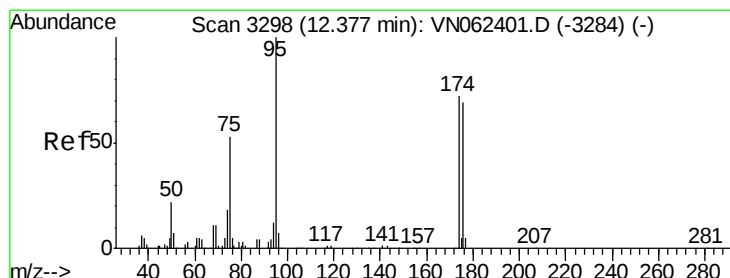
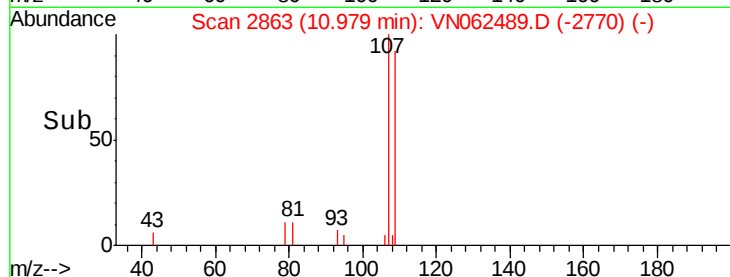
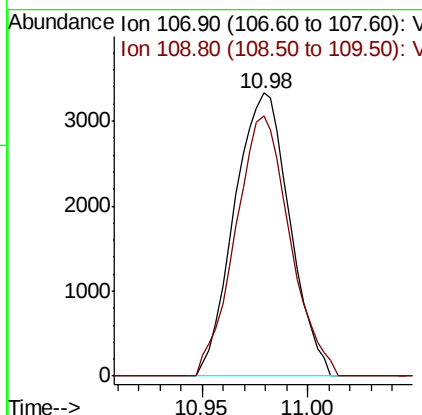
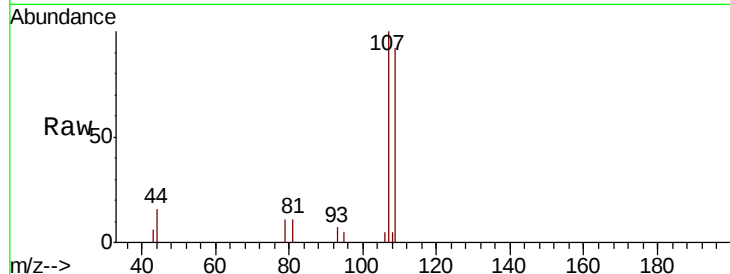
#61
 1,2-Dibromoethane
 Concen: 2.714 ug/l
 RT: 10.98 min Scan# 2863
 Delta R.T. 0.00 min
 Lab File: VN062489.D
 Acq: 10 Jul 2020 13:30

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

Tot Ion	Ratio	Lower	Upper
107	100		
109	91.0	75.6	113.4

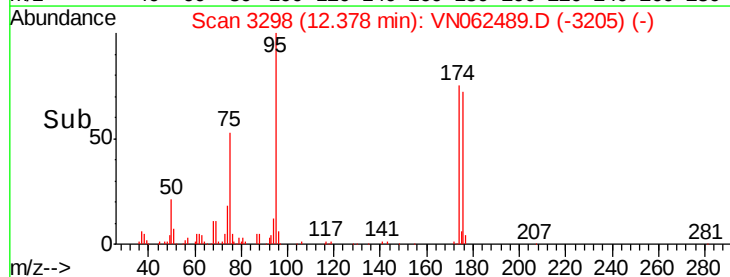
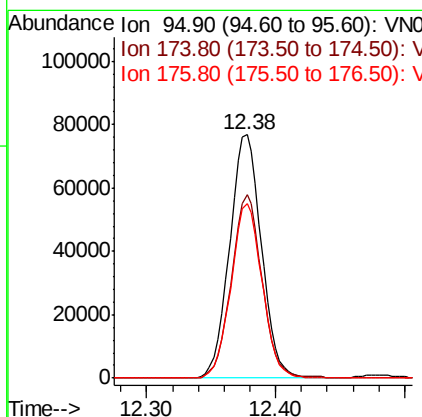
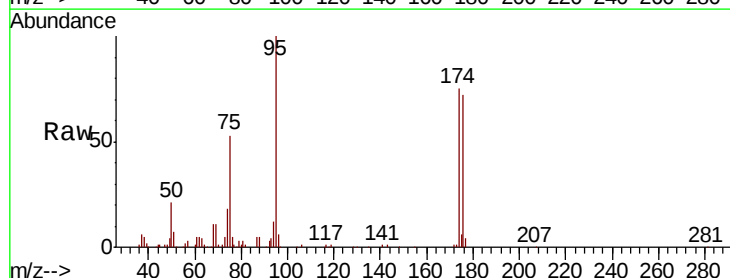
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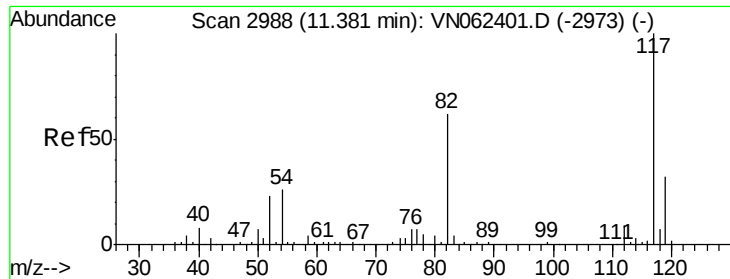
MMDadoda
 7/13/2020 11:19:11 AM



#62
 4-Bromofluorobenzene
 Concen: 45.006 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.00 min
 Lab File: VN062489.D
 Acq: 10 Jul 2020 13:30

Tgt Ion	Ratio	Lower	Upper
95	100		
174	72.6	0.0	141.6
176	70.2	0.0	137.2





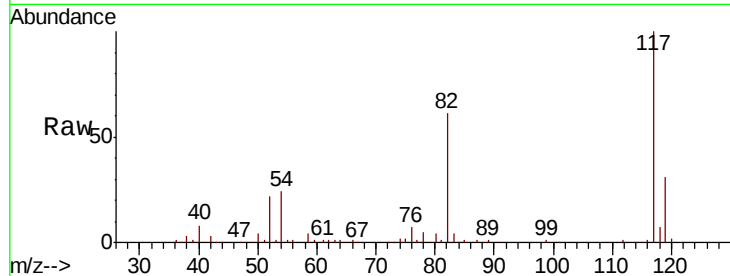
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

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

Tot Ion	Ratio	Lower	Upper
117	100		
82	61.4	49.6	74.4
119	31.2	25.4	38.0

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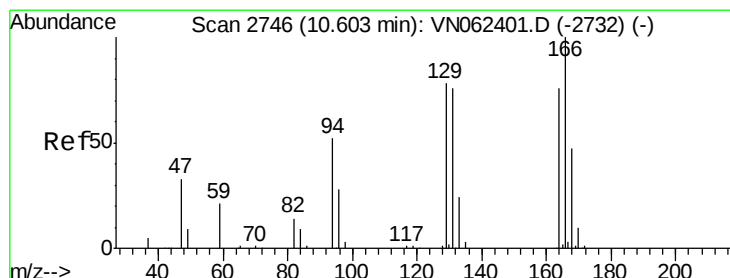
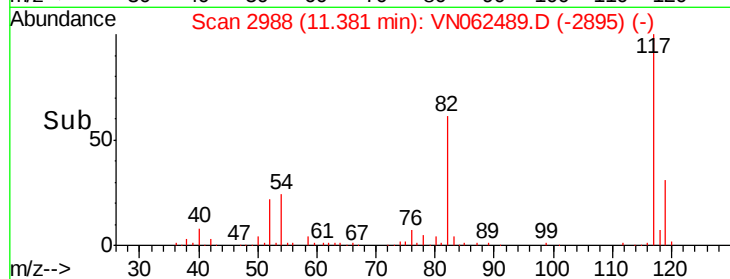
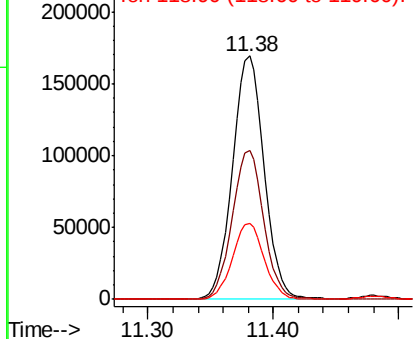


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 2.816 ug/l
RT: 10.60 min Scan# 2746
Delta R.T. 0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

Tgt Ion	Ratio	Lower	Upper
164	100		
166	118.7	104.9	157.3
129	90.4	81.8	122.6
131	92.3	79.3	118.9

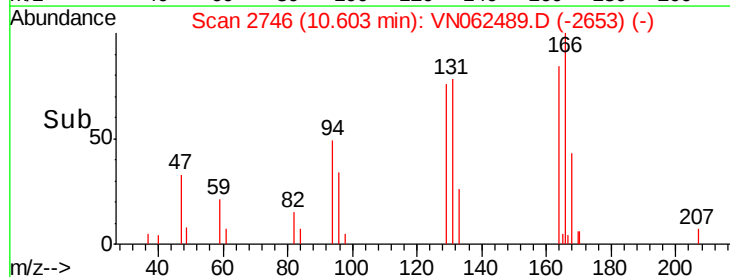
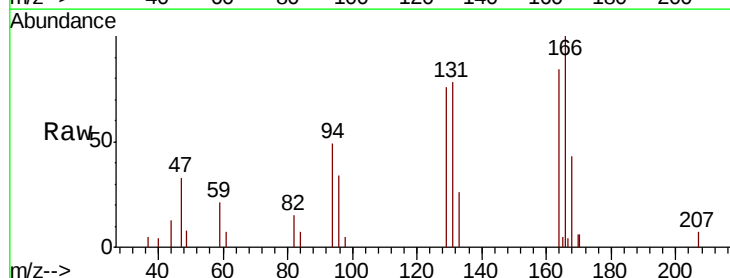
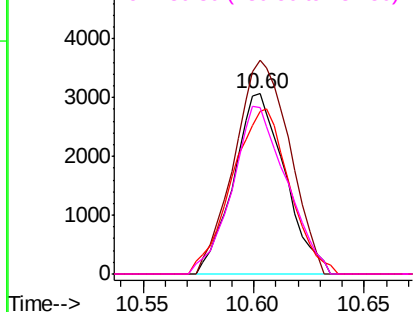
Abundance

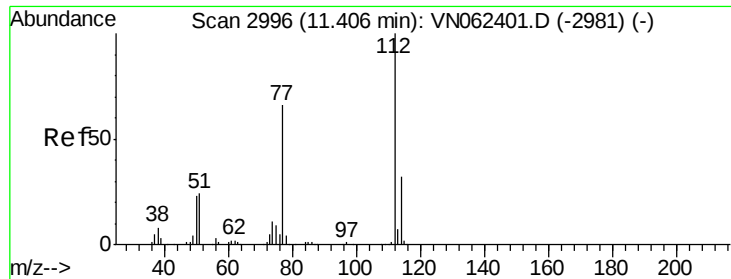
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





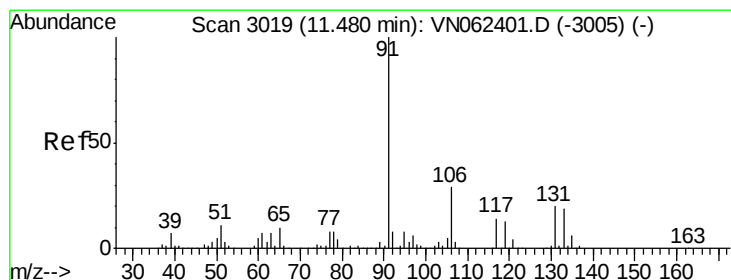
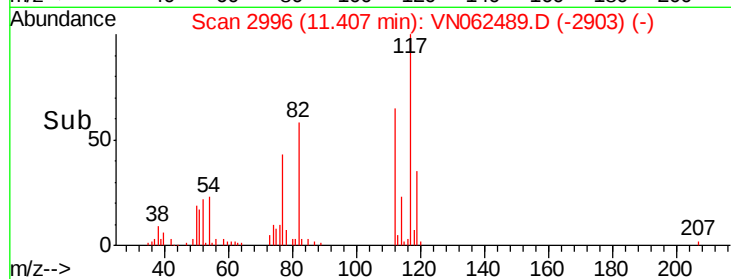
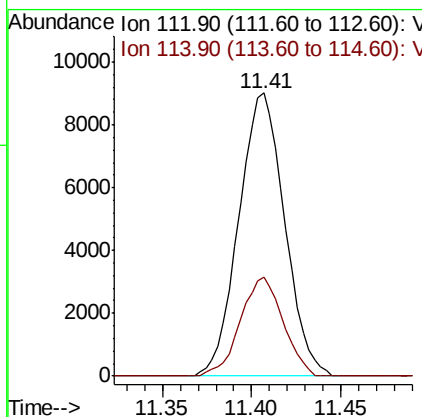
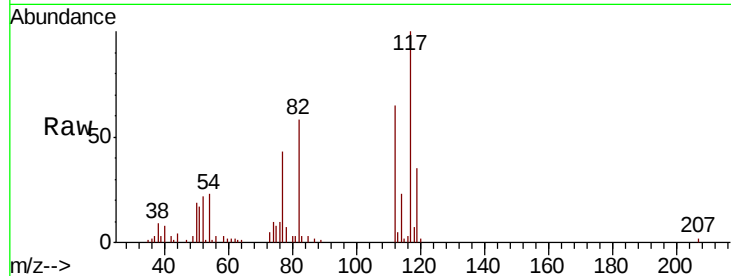
#65
Chlorobenzene
Concen: 2.792 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

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

Tot Ion:112 Resp: 16120
Ion Ratio Lower Upper
112 100
114 35.0 25.9 38.9

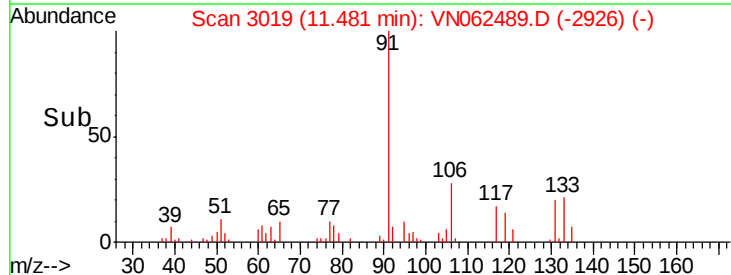
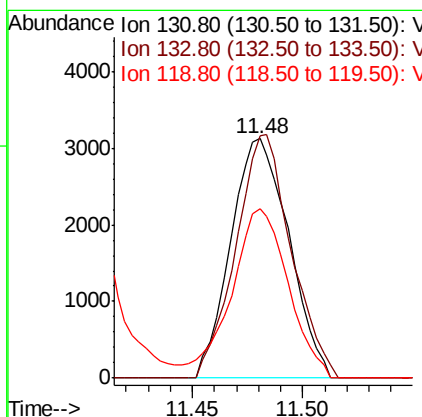
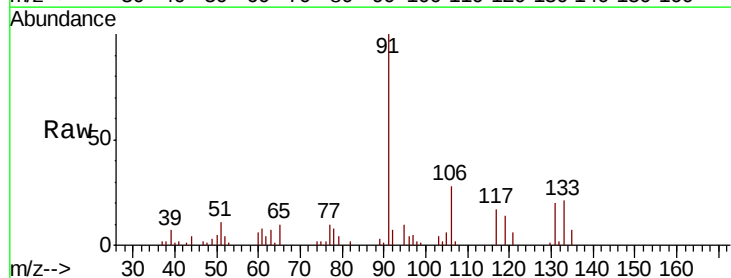
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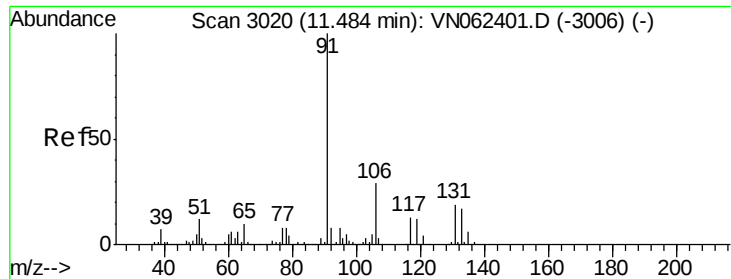
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#66
1,1,1,2-Tetrachloroethane
Concen: 2.684 ug/l
RT: 11.48 min Scan# 3019
Delta R.T. 0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

Tgt Ion:131 Resp: 5713
Ion Ratio Lower Upper
131 100
133 96.9 46.9 140.8
119 69.5 33.2 99.6





#67

Ethyl Benzene

Concen: 2.518 ug/l

RT: 11.48 min Scan# 3020

Delta R.T. 0.00 min

Lab File: VN062489.D

Acq: 10 Jul 2020 13:30

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2020DL

Tot Ion: 91 Resp: 27286

Ion Ratio Lower Upper

91 100

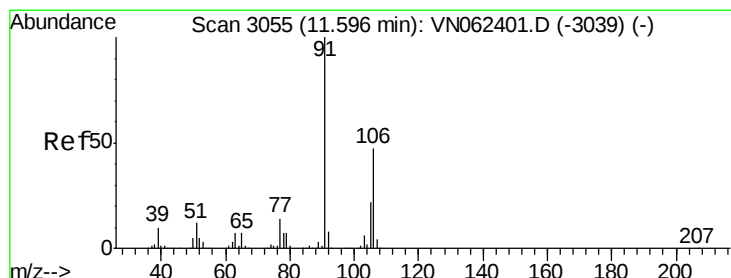
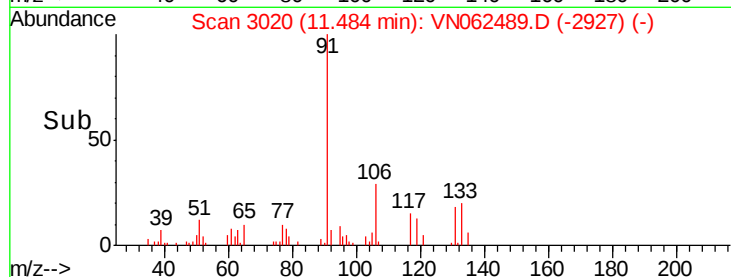
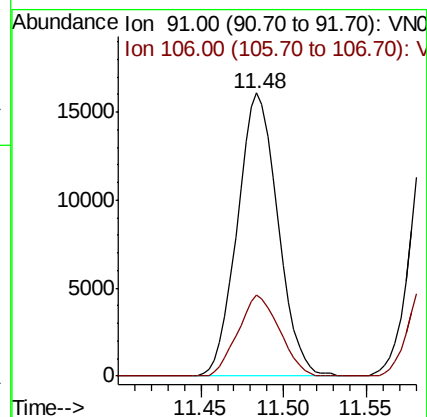
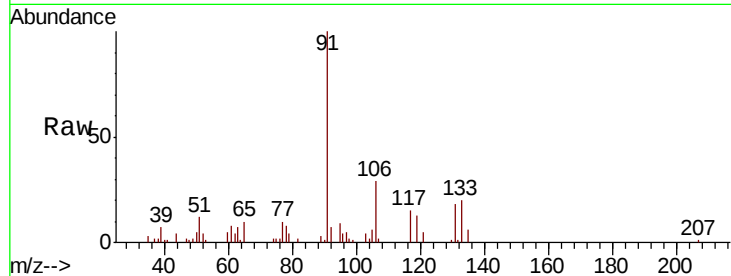
106 28.8 23.4 35.2

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#68

m/p-Xylenes

Concen: 4.857 ug/l

RT: 11.60 min Scan# 3055

Delta R.T. 0.00 min

Lab File: VN062489.D

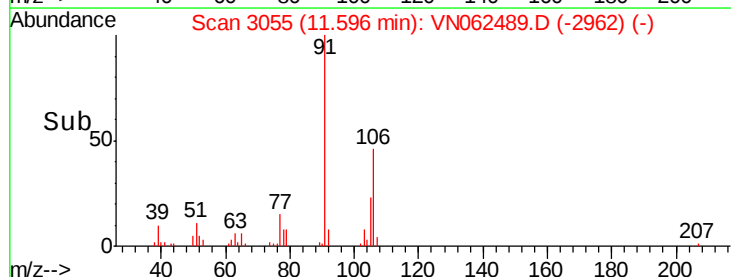
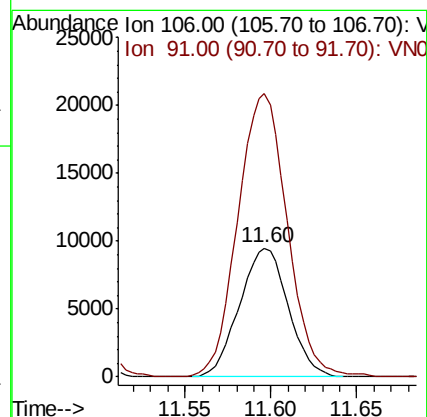
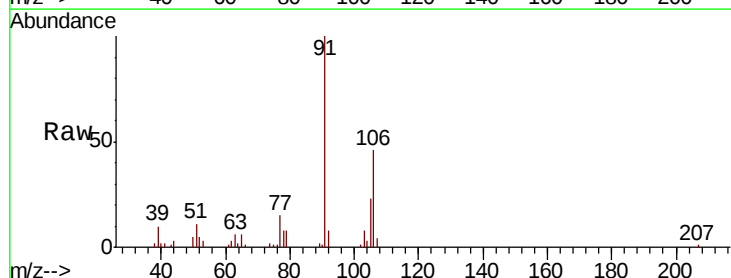
Acq: 10 Jul 2020 13:30

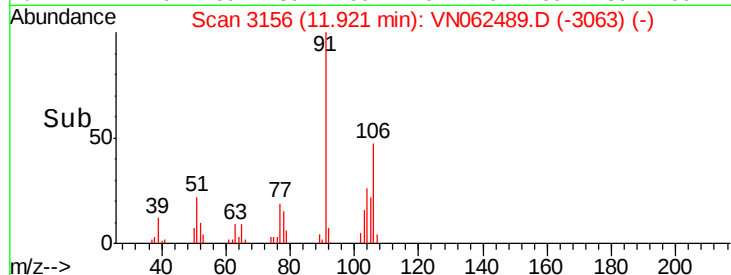
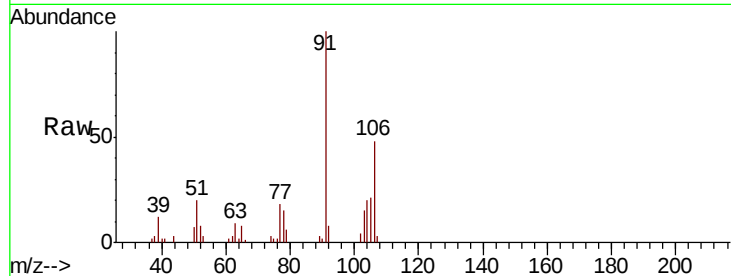
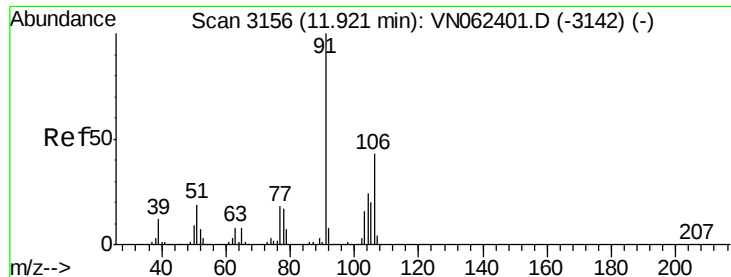
Tgt Ion: 106 Resp: 18632

Ion Ratio Lower Upper

106 100

91 223.3 172.4 258.6





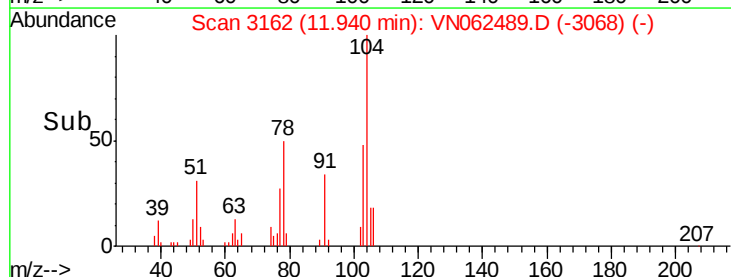
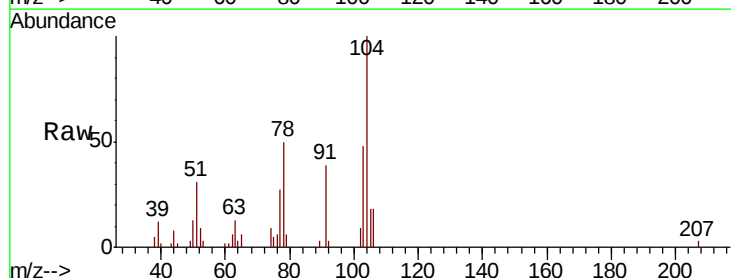
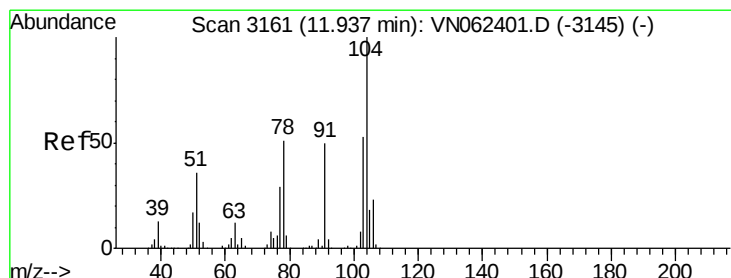
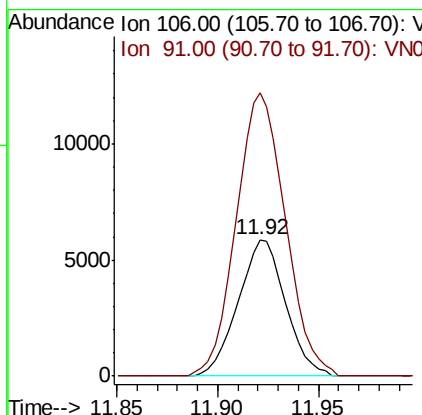
#69
o-Xylene
Concen: 2.582 ug/l
RT: 11.92 min Scan# 3156
Delta R.T. 0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

Tot Ion:106 Resp: 9642
Ion Ratio Lower Upper
106 100
91 215.5 113.8 341.4

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

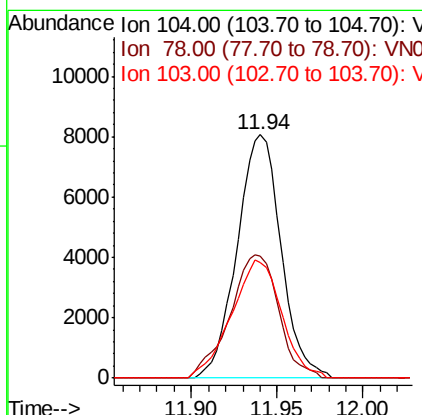
Manual Integrations
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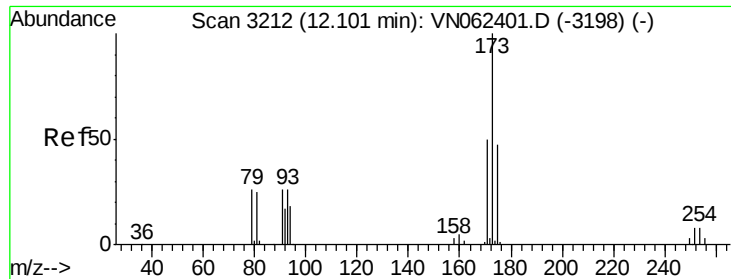
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#70
Styrene
Concen: 2.321 ug/l
RT: 11.94 min Scan# 3162
Delta R.T. 0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

Tgt Ion:104 Resp: 14325
Ion Ratio Lower Upper
104 100
78 56.0 44.2 66.4
103 55.2 44.4 66.6





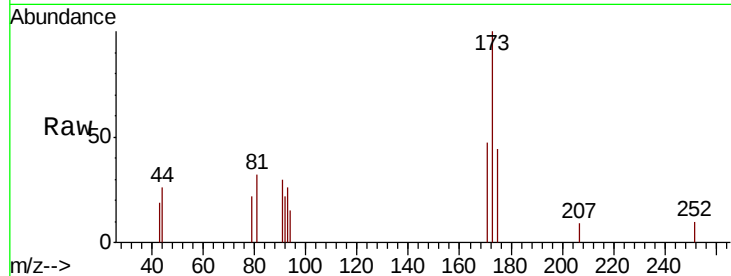
#71
Bromoform
Concen: 2.655 ug/l
RT: 12.10 min Scan# 3212
Delta R.T. 0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

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

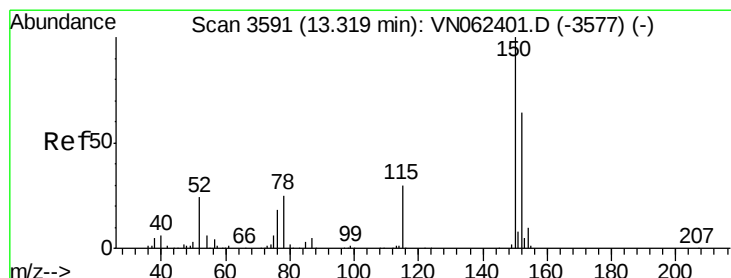
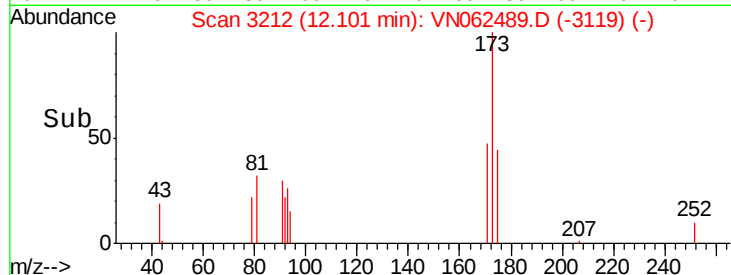
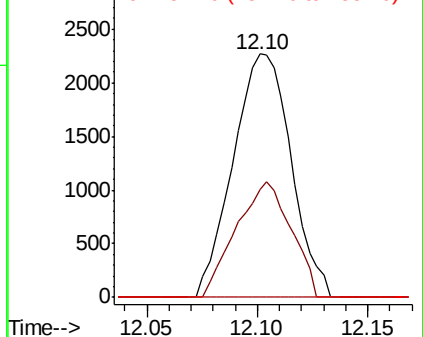
Tot Ion:173 Resp: 4143
Ion Ratio Lower Upper
173 100
175 45.0 23.7 71.1
254 0.0 0.0 0.0

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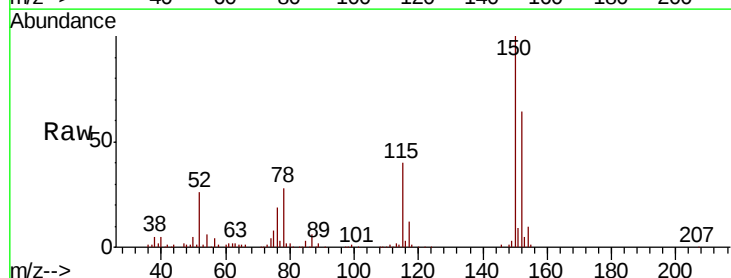


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

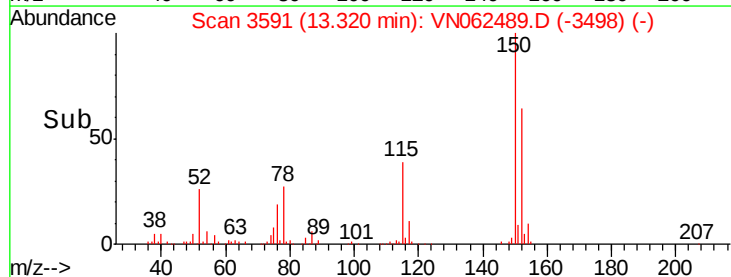
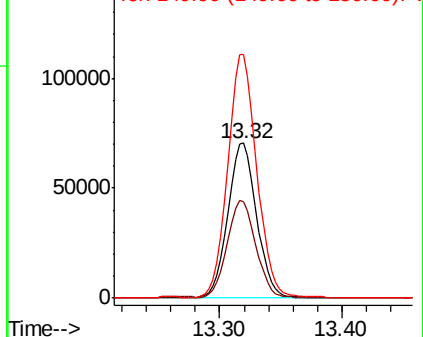


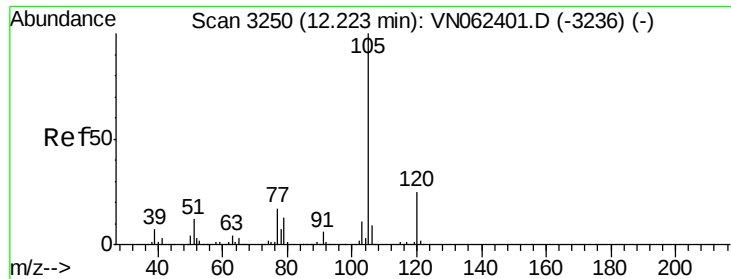
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3591
Delta R.T. 0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

Tgt Ion:152 Resp: 116504
Ion Ratio Lower Upper
152 100
115 63.4 31.4 94.2
150 157.2 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: 2.765 ug/l

RT: 12.22 min Scan# 3250

Delta R.T. 0.00 min

Lab File: VN062489.D

Acq: 10 Jul 2020 13:30

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2020DL

Tot Ion: 105 Resp: 24924

Ion Ratio Lower Upper

105 100

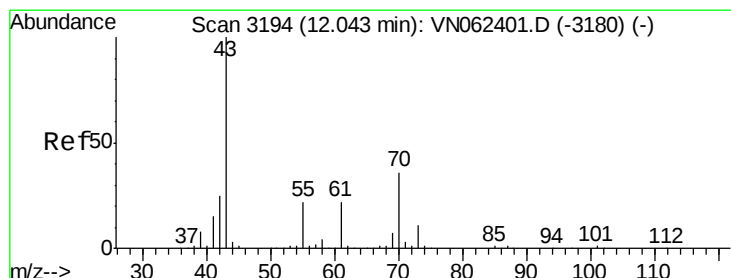
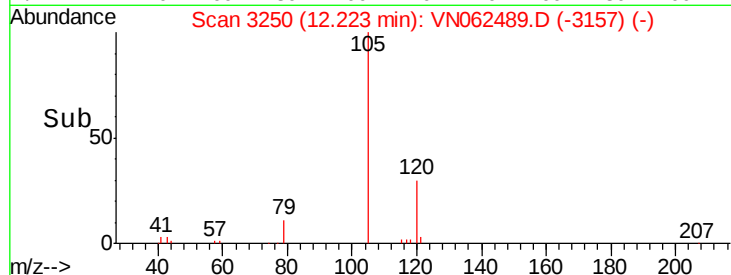
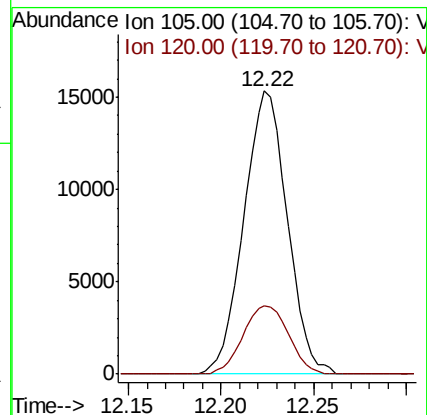
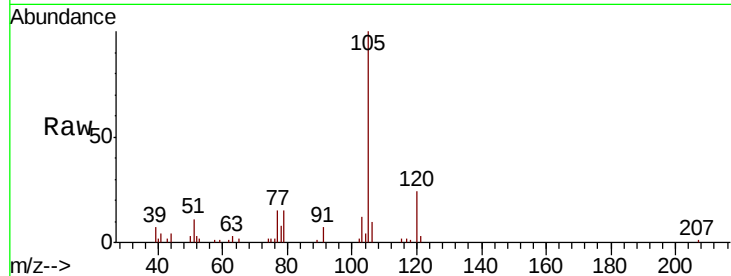
120 25.4 12.7 38.1

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#74

N-ethyl acetate

Concen: 2.397 ug/l

RT: 12.05 min Scan# 3195

Delta R.T. 0.00 min

Lab File: VN062489.D

Acq: 10 Jul 2020 13:30

Tgt Ion: 43 Resp: 10517

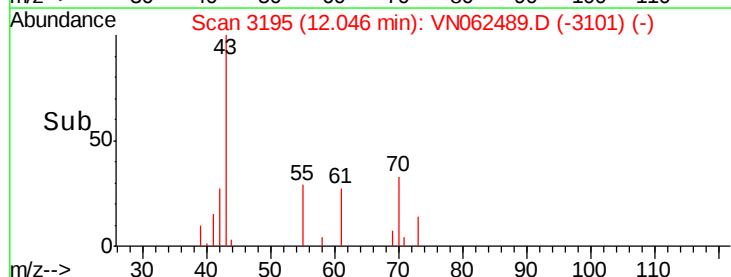
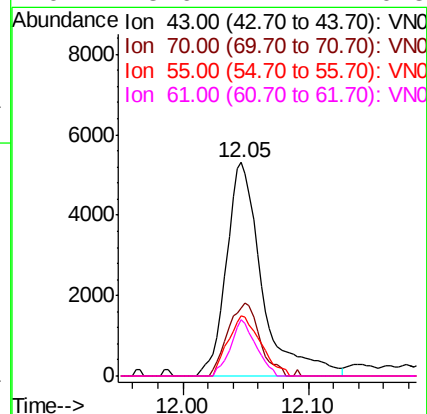
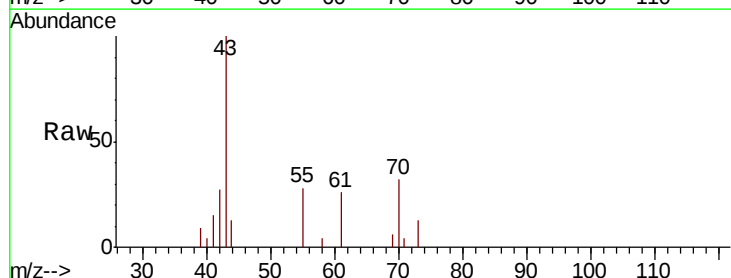
Ion Ratio Lower Upper

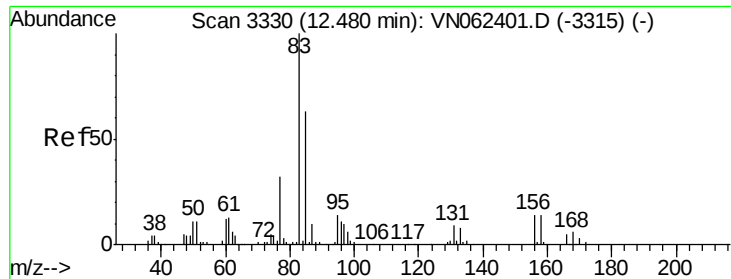
43 100

70 30.1 30.0 45.0

55 25.4 18.2 27.4

61 18.6 17.7 26.5





#75

1,1,2,2-Tetrachloroethane

Concen: 3.047 ug/l

RT: 12.48 min Scan# 3330

Delta R.T. 0.00 min

Lab File: VN062489.D

Acq: 10 Jul 2020 13:30

Instrument :

MSVOA_N

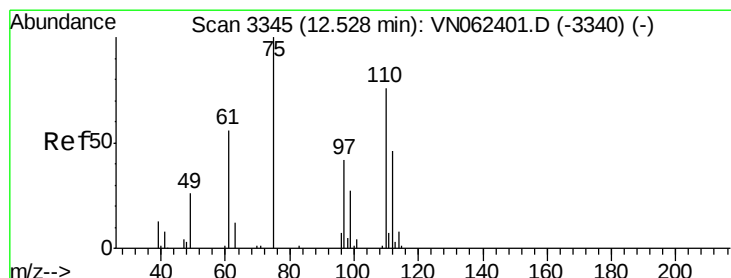
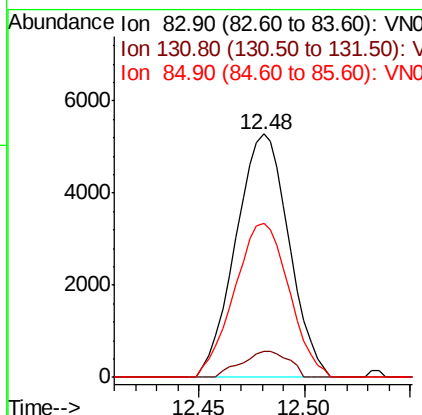
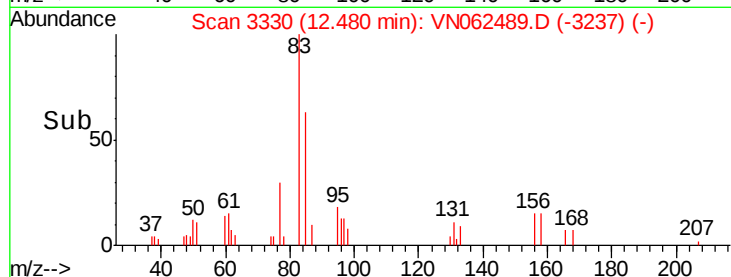
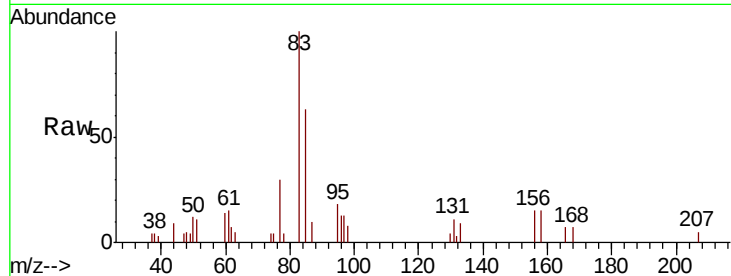
ClientSampleId :

MDL-WATER-03-QT3-2020DL

Tot Ion:	83	Resp:	9235
Ion Ratio	Lower	Upper	
83	100		
131	9.6	4.5	13.5
85	65.2	31.9	95.9

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



#76

1,2,3-Trichloropropane

Concen: 3.068 ug/l m

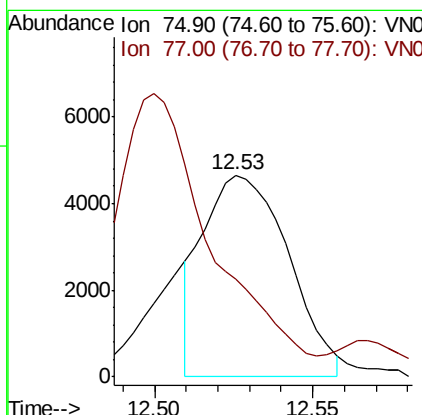
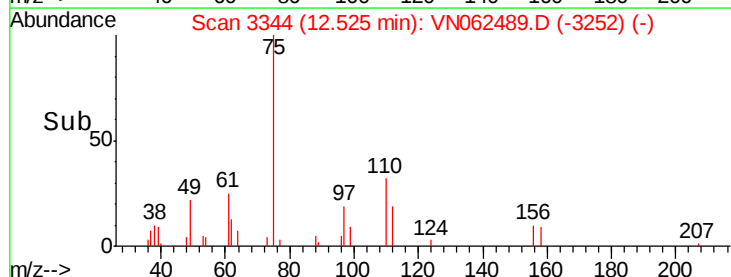
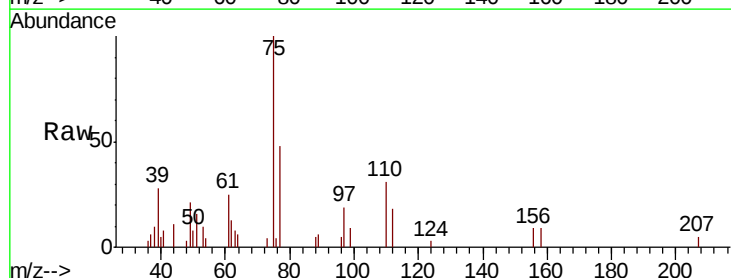
RT: 12.53 min Scan# 3344

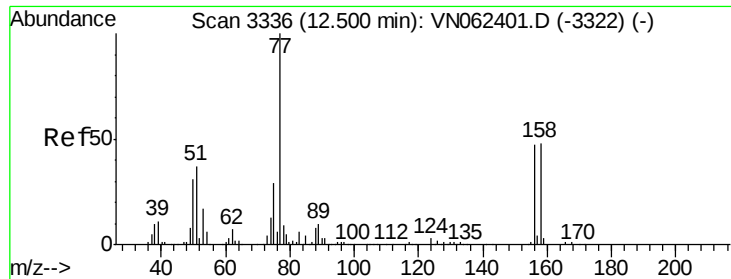
Delta R.T. -0.00 min

Lab File: VN062489.D

Acq: 10 Jul 2020 13:30

Tgt Ion:	75	Resp:	8769
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 2.886 ug/l

RT: 12.50 min Scan# 3336

Delta R.T. 0.00 min

Lab File: VN062489.D

Acq: 10 Jul 2020 13:30

Instrument :

MSVOA_N

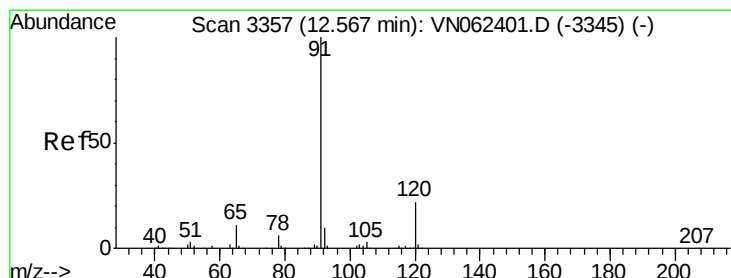
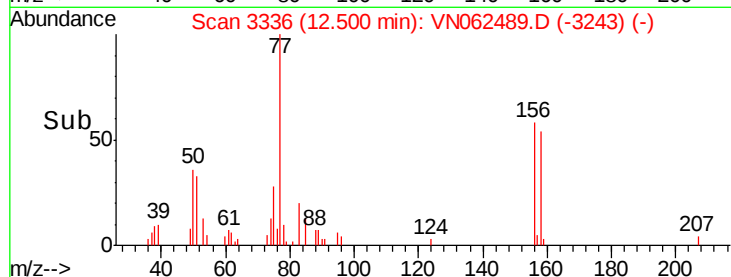
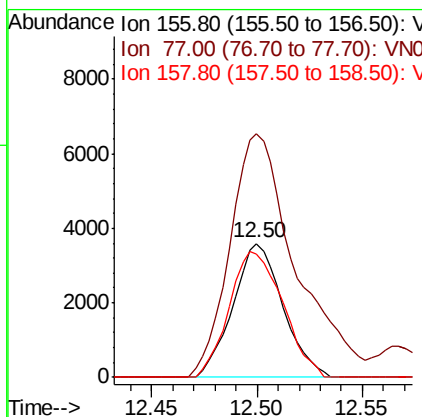
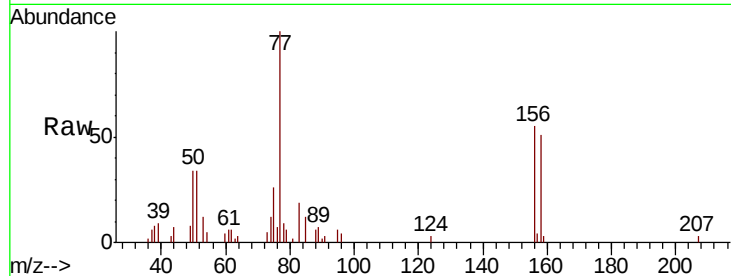
ClientSampleId :

MDL-WATER-03-QT3-2020DL

Tot Ion:	156	Resp:	5916
Ion	Ratio	Lower	Upper
156	100		
77	239.1	126.4	379.3
158	100.4	49.8	149.4

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#78

n-propylbenzene

Concen: 2.783 ug/l

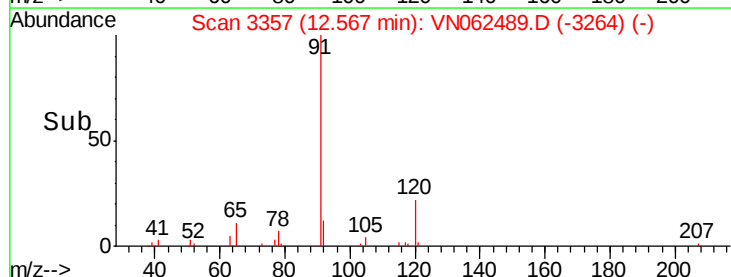
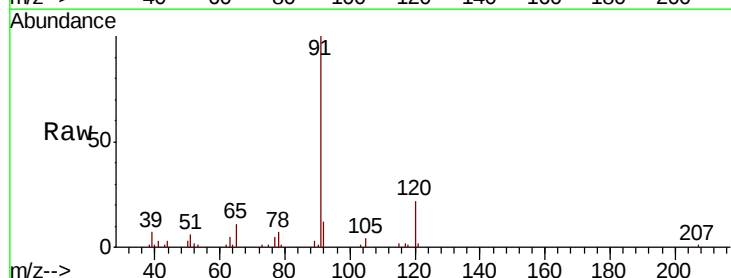
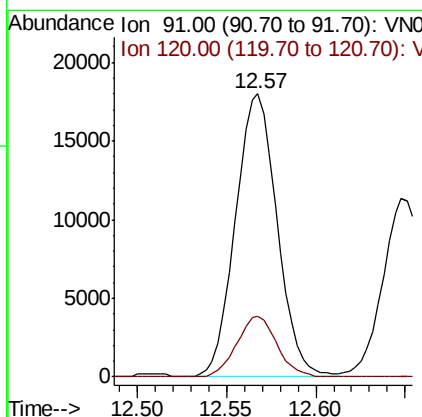
RT: 12.57 min Scan# 3357

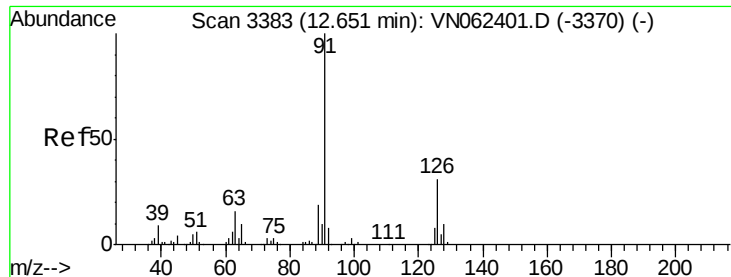
Delta R.T. 0.00 min

Lab File: VN062489.D

Acq: 10 Jul 2020 13:30

Tgt Ion:	91	Resp:	29312
Ion	Ratio	Lower	Upper
91	100		
120	20.5	10.7	32.1





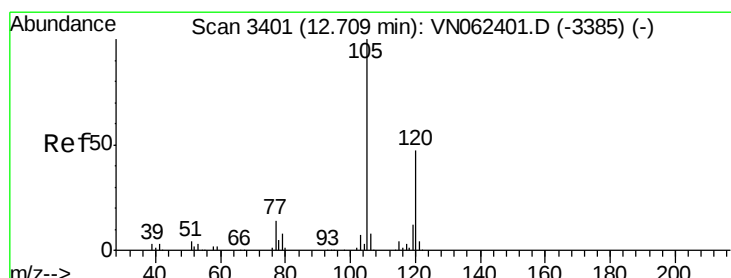
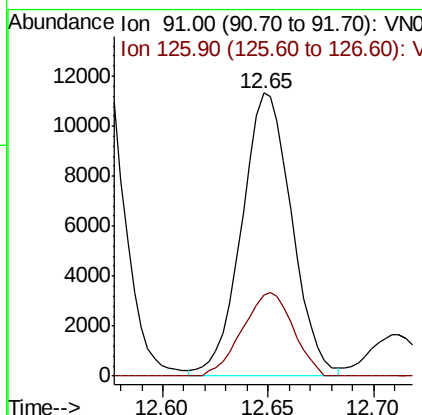
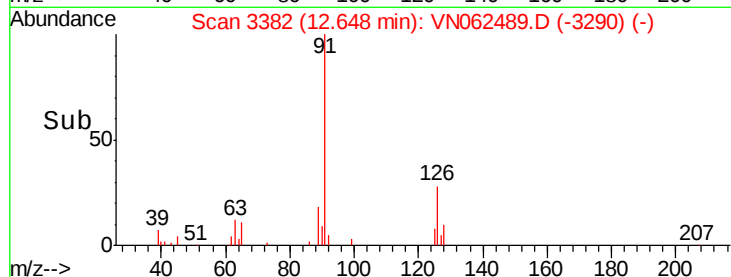
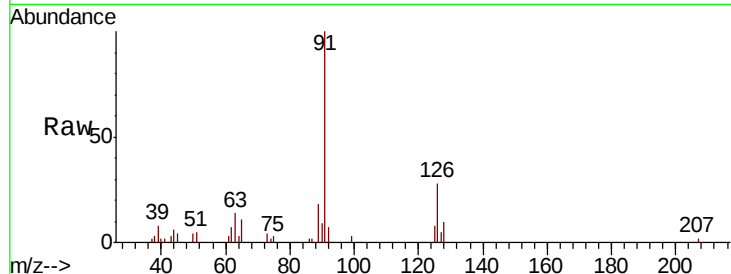
#79
2-Chlorotoluene
Concen: 2.934 ug/l
RT: 12.65 min Scan# 3382
Delta R.T. -0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

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

Tot Ion: 91 Resp: 18750
Ion Ratio Lower Upper
91 100
126 29.7 15.6 46.7

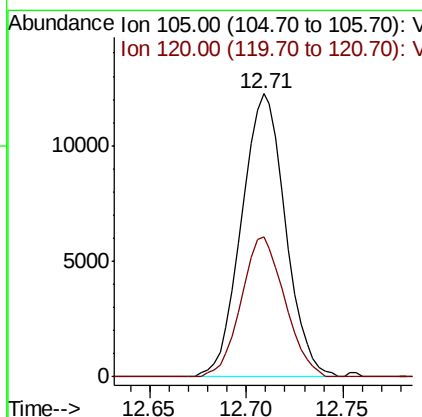
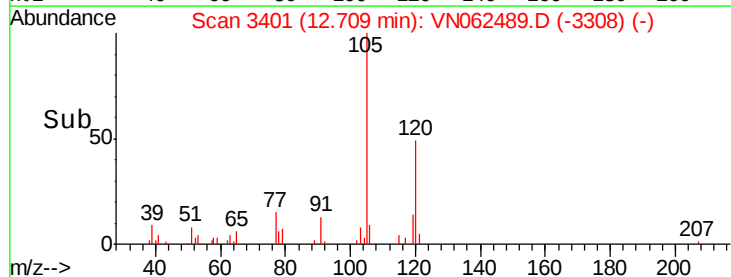
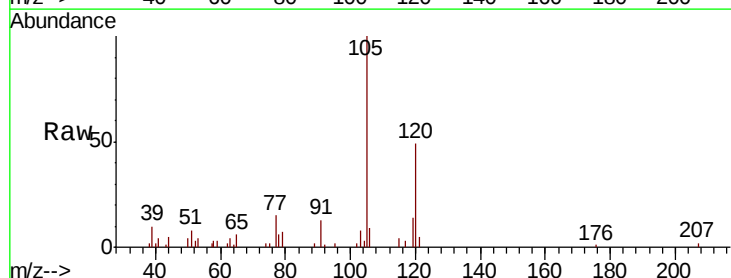
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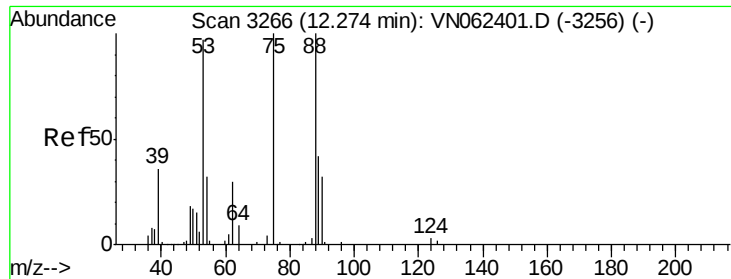
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#80
1,3,5-Trimethylbenzene
Concen: 2.617 ug/l
RT: 12.71 min Scan# 3401
Delta R.T. 0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

Tgt Ion: 105 Resp: 19338
Ion Ratio Lower Upper
105 100
120 49.1 23.4 70.2





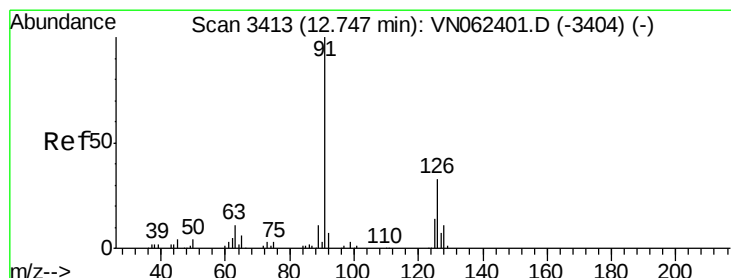
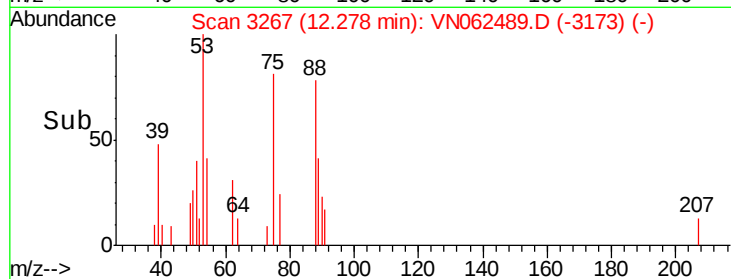
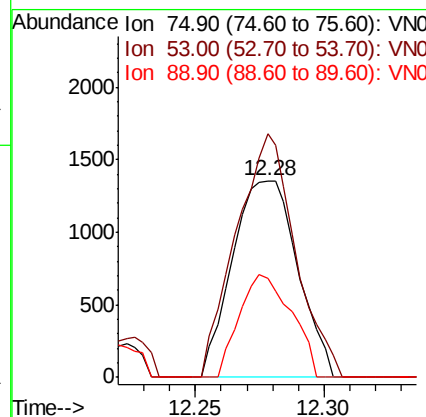
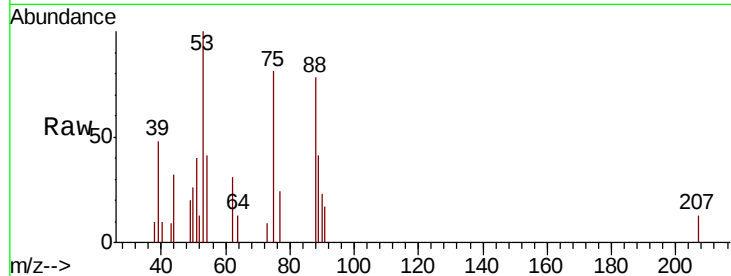
#81
trans-1,4-Dichloro-2-butene
Concen: 2.238 ug/l
RT: 12.28 min Scan# 3267
Delta R.T. 0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

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

Tot Ion: 75 Resp: 2390
Ion Ratio Lower Upper
75 100
53 112.5 79.2 118.8
89 42.0 34.6 52.0

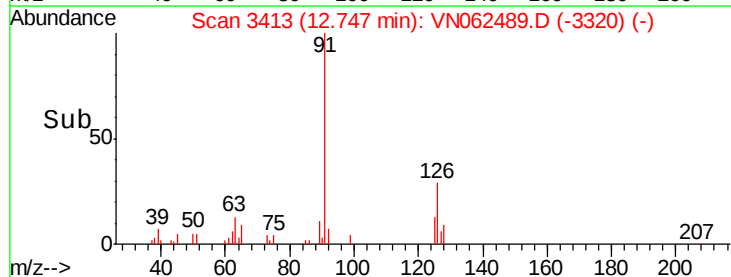
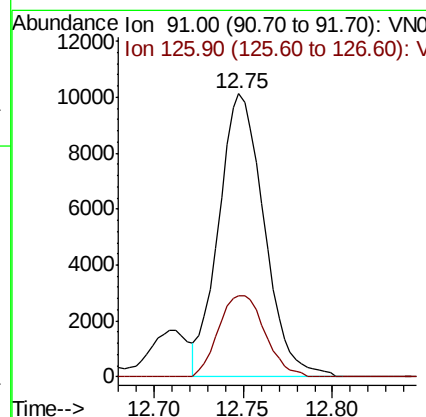
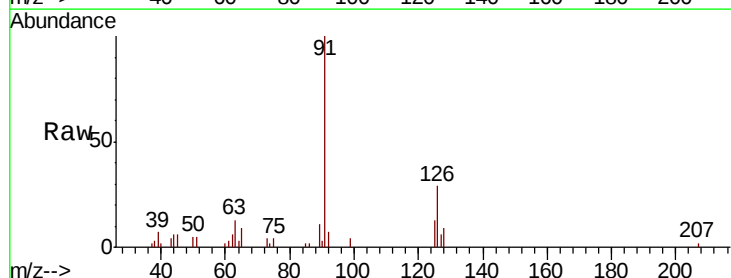
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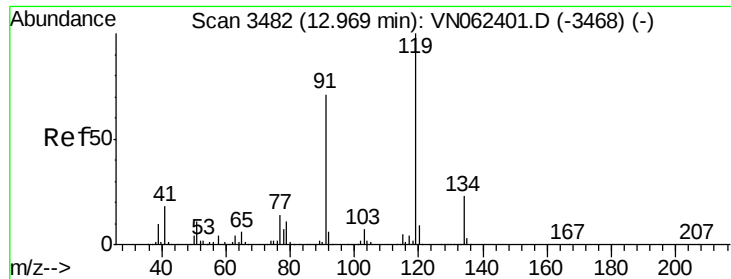
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#82
4-Chlorotoluene
Concen: 2.754 ug/l
RT: 12.75 min Scan# 3413
Delta R.T. 0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

Tgt Ion: 91 Resp: 17870
Ion Ratio Lower Upper
91 100
126 29.4 15.2 45.6





#83

tert-Butylbenzene

Concen: 2.768 ug/l

RT: 12.97 min Scan# 3482

Delta R.T. 0.00 min

Lab File: VN062489.D

Acq: 10 Jul 2020 13:30

Instrument :

MSVOA_N

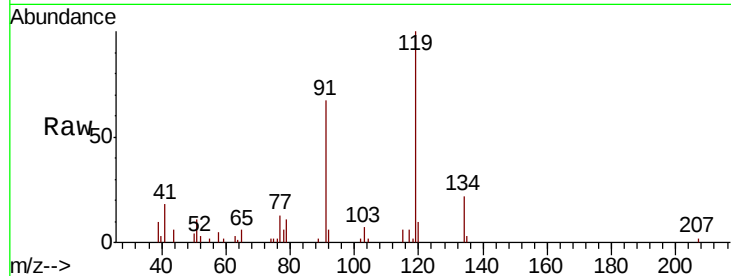
ClientSampleId :

MDL-WATER-03-QT3-2020DL

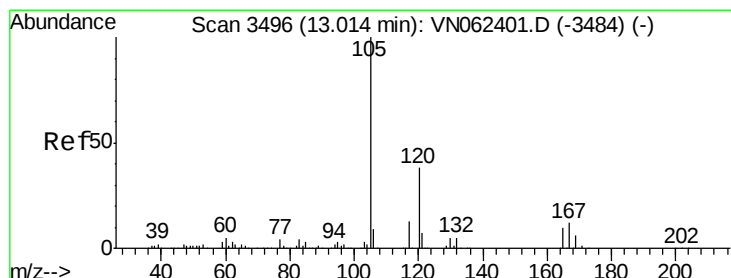
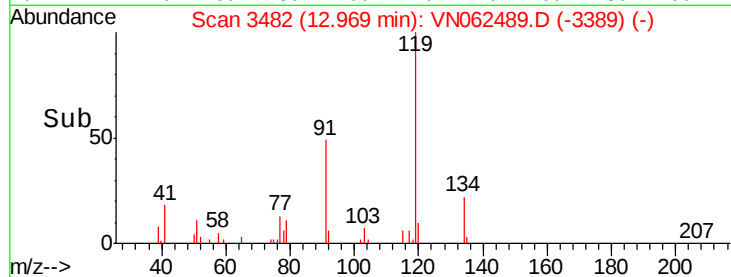
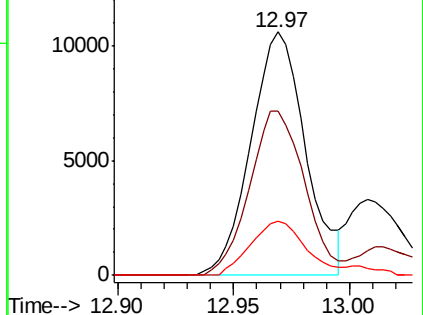
Tot Ion:	119	Resp:	17359
Ion Ratio	Lower	Upper	
119	100		
91	68.5	34.8	104.3
134	22.0	11.7	35.0

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Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 2.581 ug/l

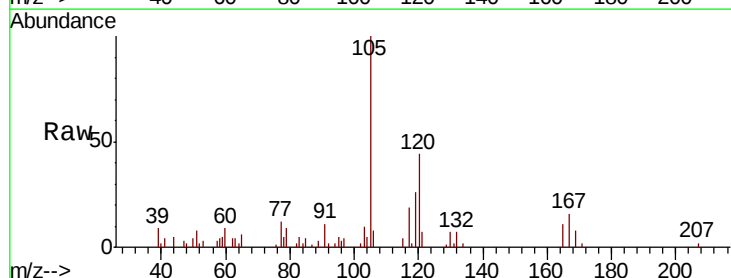
RT: 13.01 min Scan# 3496

Delta R.T. 0.00 min

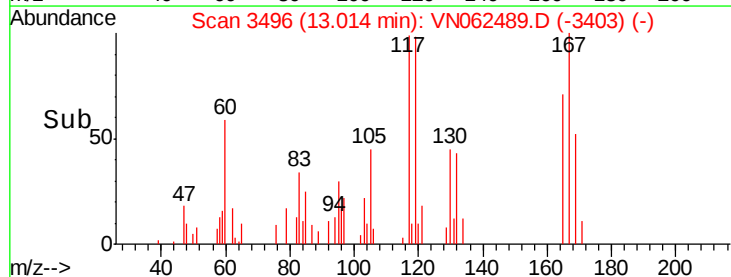
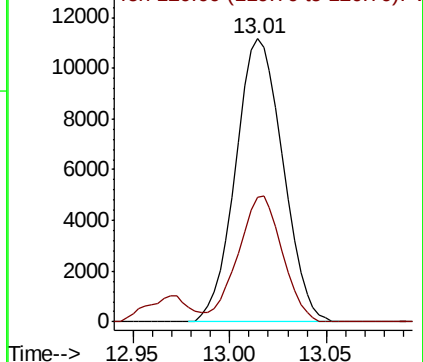
Lab File: VN062489.D

Acq: 10 Jul 2020 13:30

Tgt Ion:	105	Resp:	18957
Ion Ratio	Lower	Upper	
105	100		
120	41.9	21.6	64.8



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





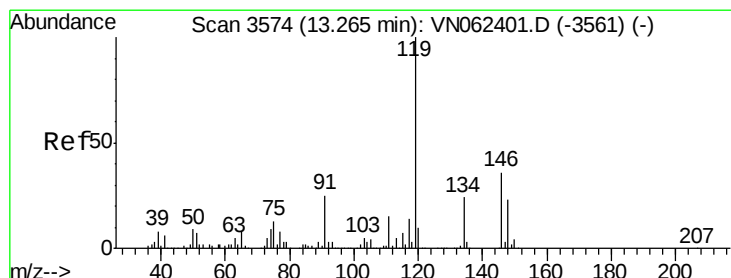
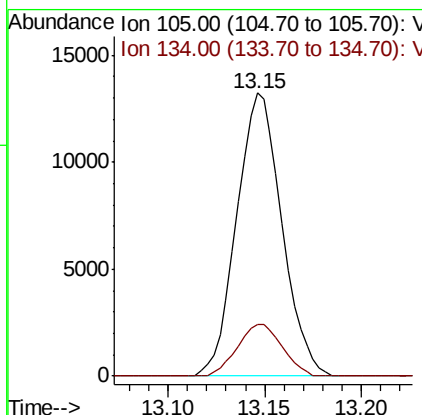
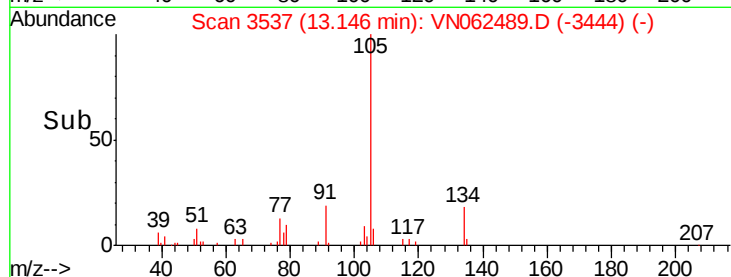
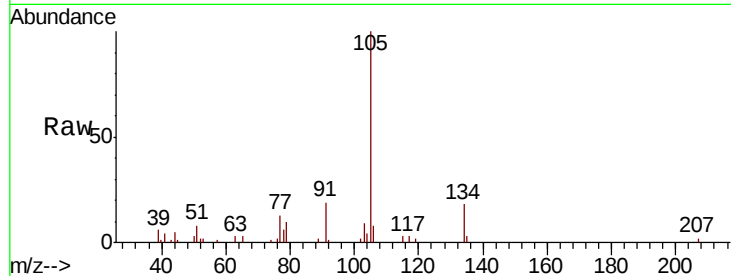
#85
 sec-Butylbenzene
 Concen: 2.582 ug/l
 RT: 13.15 min Scan# 3537
 Delta R.T. 0.00 min
 Lab File: VN062489.D
 Acq: 10 Jul 2020 13:30

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

Tot Ion	Ratio	Lower	Upper
105	100		
134	18.1	9.3	28.0

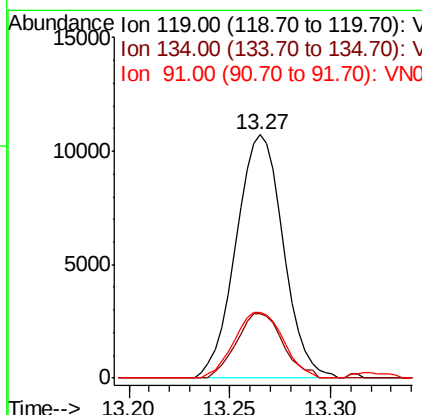
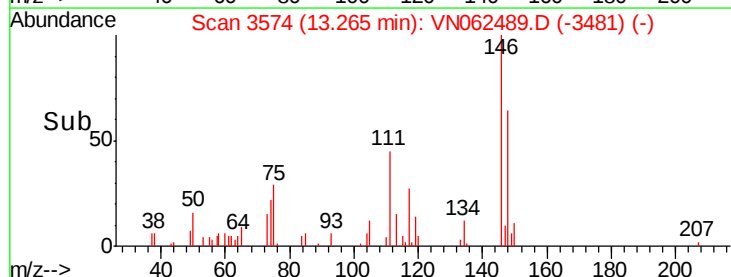
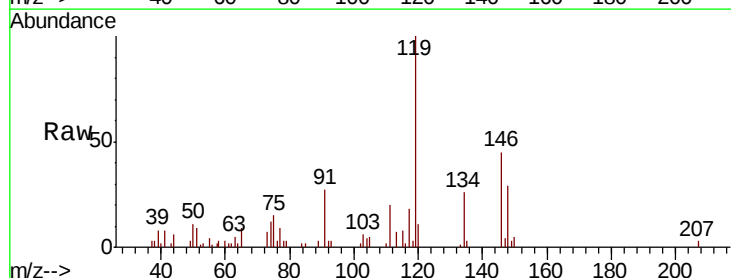
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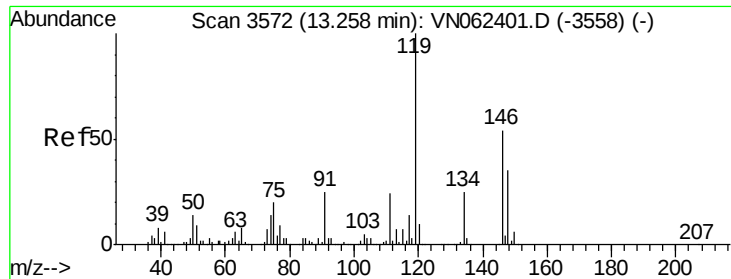
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#86
 p-Isopropyltoluene
 Concen: 2.453 ug/l
 RT: 13.27 min Scan# 3574
 Delta R.T. 0.00 min
 Lab File: VN062489.D
 Acq: 10 Jul 2020 13:30

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.1	12.4	37.0
91	28.1	12.4	37.4





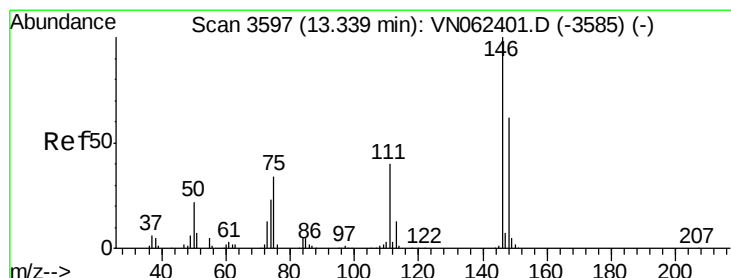
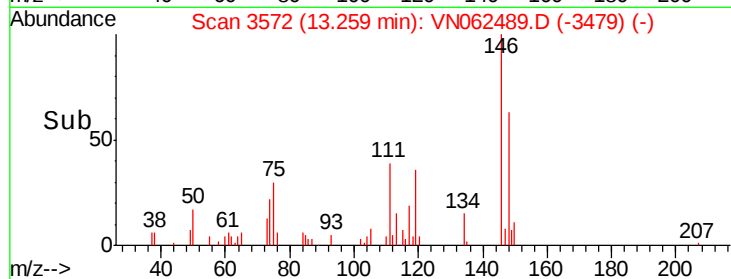
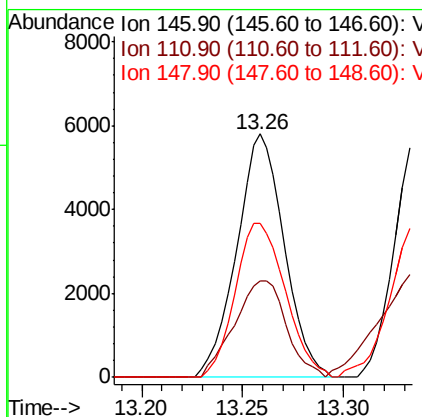
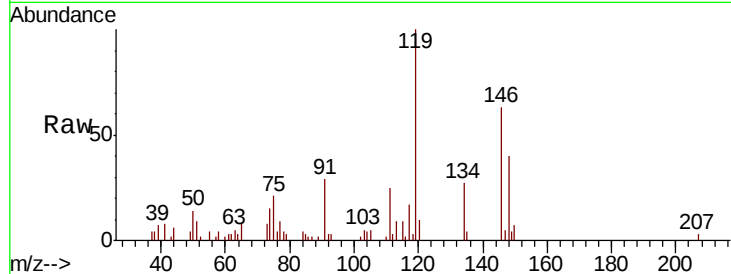
#87
 1,3-Dichlorobenzene
 Concen: 2.702 ug/l
 RT: 13.26 min Scan# 3572
 Delta R.T. 0.00 min
 Lab File: VN062489.D
 Acq: 10 Jul 2020 13:30

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.2	21.6	64.6
148	66.7	32.2	96.6

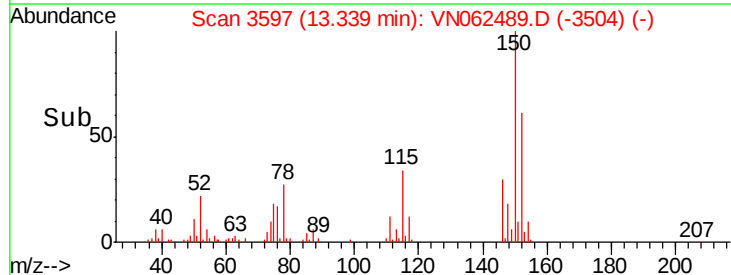
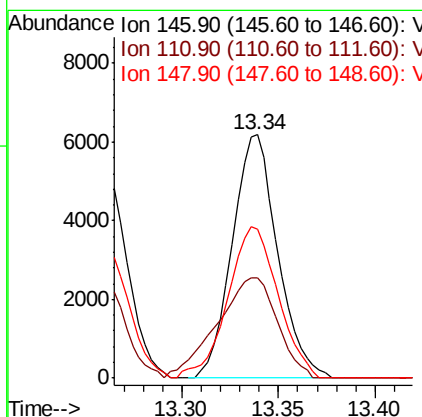
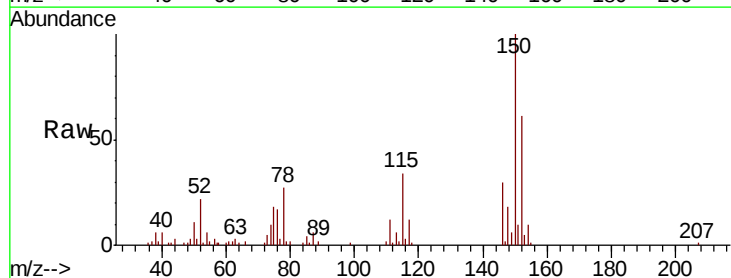
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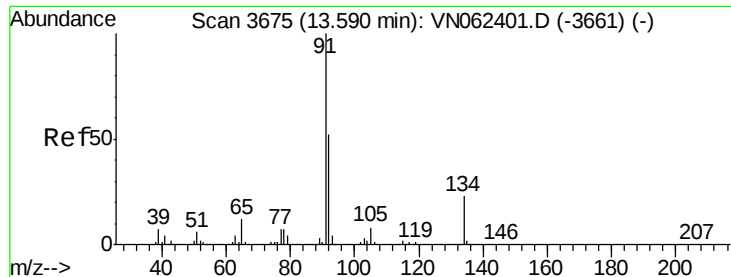
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#88
 1,4-Dichlorobenzene
 Concen: 2.769 ug/l
 RT: 13.34 min Scan# 3597
 Delta R.T. 0.00 min
 Lab File: VN062489.D
 Acq: 10 Jul 2020 13:30

Tgt Ion	Ratio	Lower	Upper
146	100		
111	54.8	21.1	63.1
148	69.0	31.4	94.2





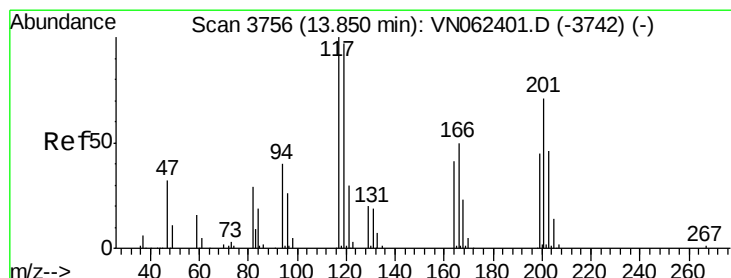
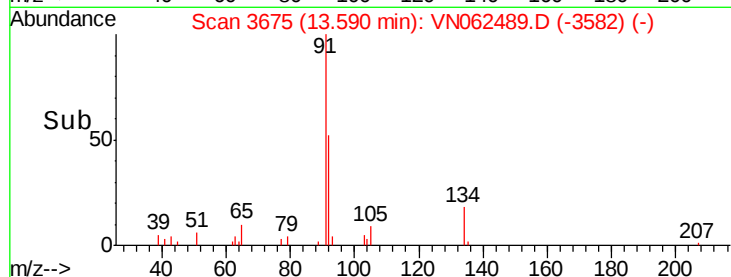
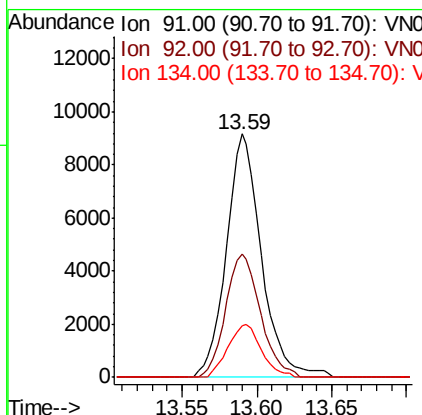
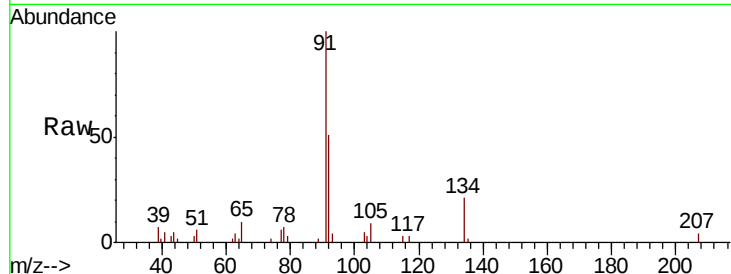
#89
n-Butylbenzene
Concen: 2.361 ug/l
RT: 13.59 min Scan# 3675
Delta R.T. 0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

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

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.1	25.9	77.7
134	20.6	11.6	34.8

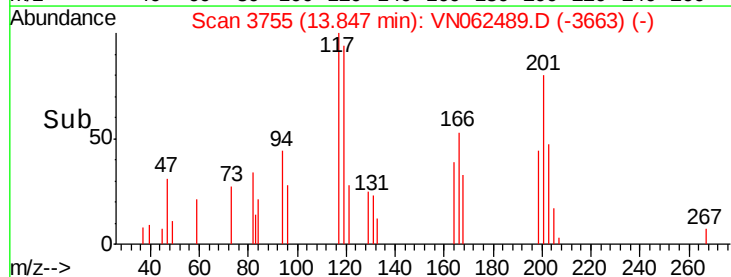
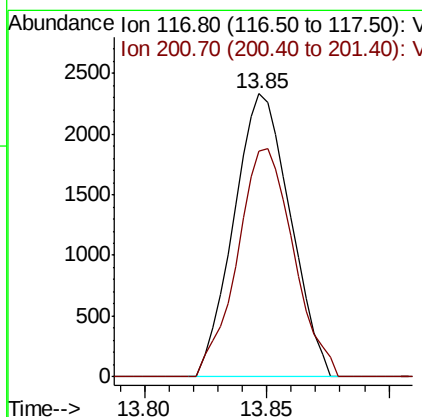
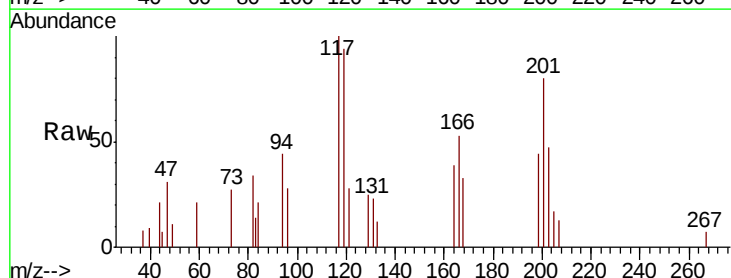
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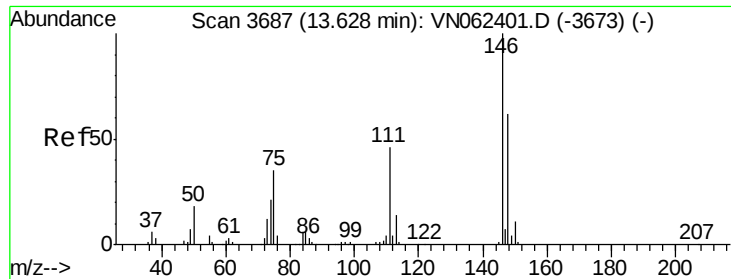
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#90
Hexachloroethane
Concen: 2.649 ug/l
RT: 13.85 min Scan# 3755
Delta R.T. -0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

Tgt Ion	Ratio	Lower	Upper
117	100		
201	80.3	35.4	106.2





#91

1,2-Dichlorobenzene

Concen: 2.722 ug/l

RT: 13.63 min Scan# 3687

Delta R.T. 0.00 min

Lab File: VN062489.D

Acq: 10 Jul 2020 13:30

Instrument :

MSVOA_N

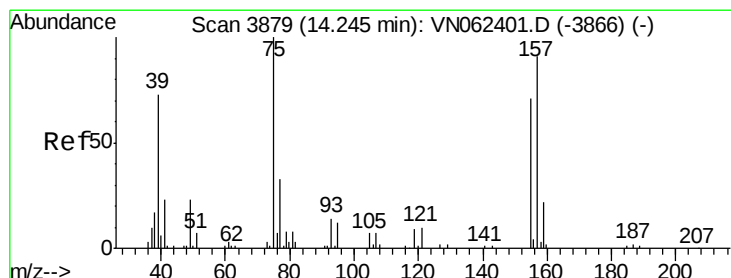
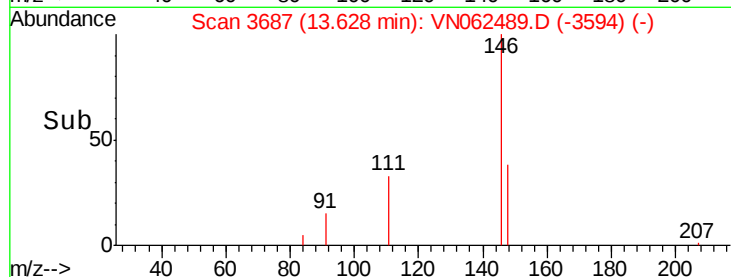
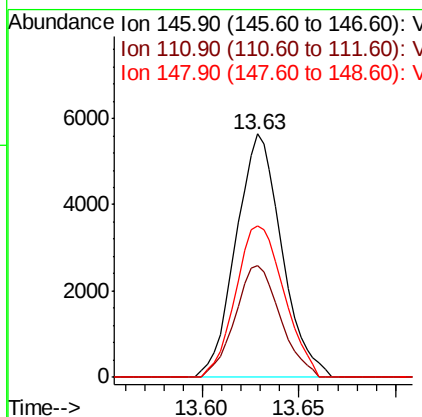
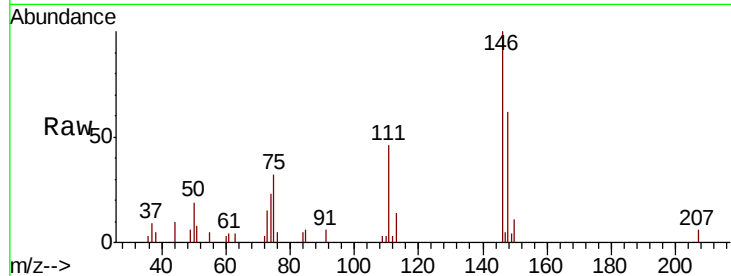
ClientSampleId :

MDL-WATER-03-QT3-2020DL

Tot Ion:	146	Resp:	9304
Ion	Ratio	Lower	Upper
146	100		
111	45.0	22.5	67.5
148	65.6	31.4	94.2

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#92

1,2-Dibromo-3-Chloropropane

Concen: 2.753 ug/l

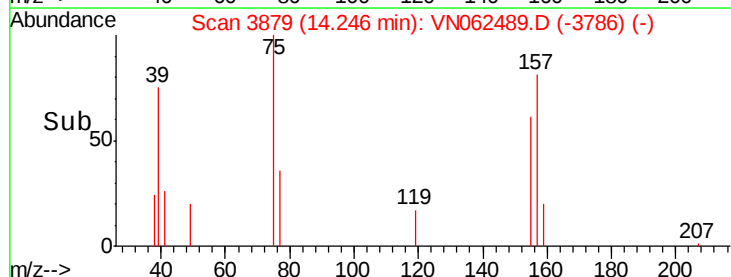
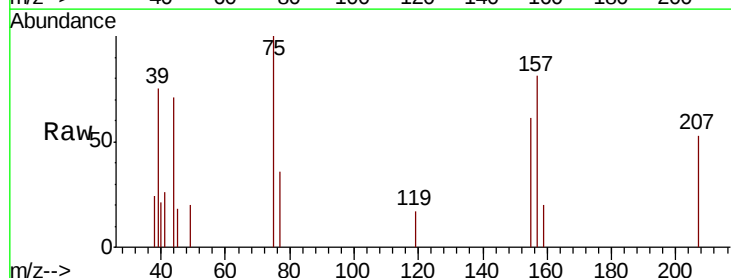
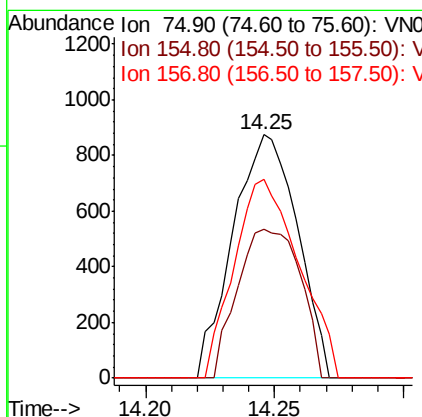
RT: 14.25 min Scan# 3879

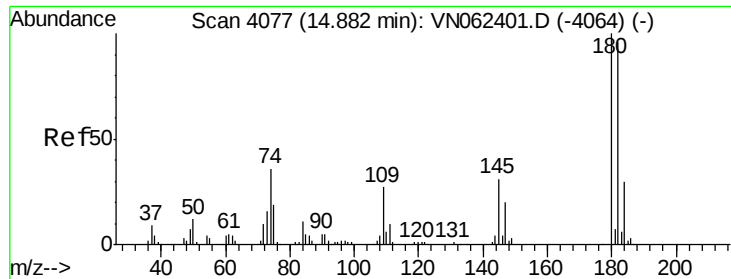
Delta R.T. 0.00 min

Lab File: VN062489.D

Acq: 10 Jul 2020 13:30

Tgt Ion:	75	Resp:	1523
Ion	Ratio	Lower	Upper
75	100		
155	59.7	35.2	105.6
157	82.3	45.8	137.3





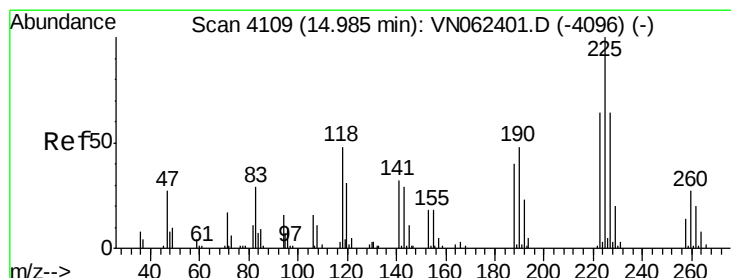
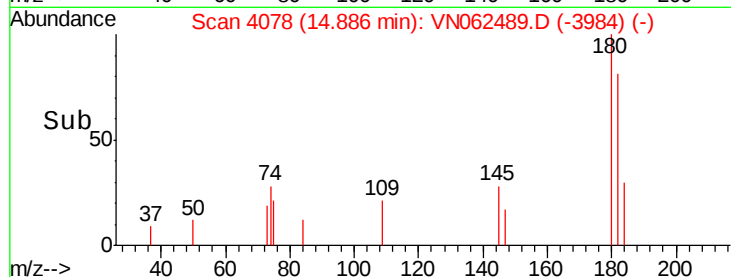
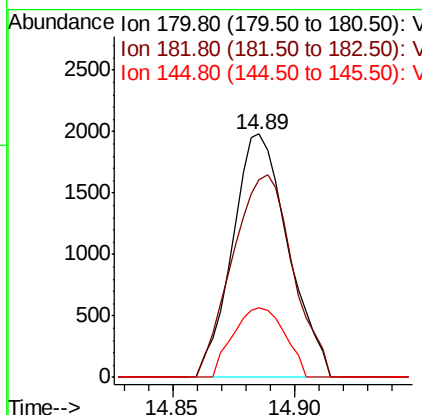
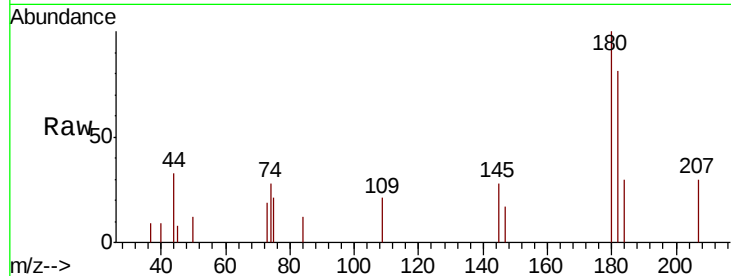
#93
 1,2,4-Trichlorobenzene
 Concen: 2.035 ug/l
 RT: 14.89 min Scan# 4078
 Delta R.T. 0.00 min
 Lab File: VN062489.D
 Acq: 10 Jul 2020 13:30

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

Tot Ion	Ratio	Lower	Upper
180	100		
182	90.3	48.4	145.2
145	26.5	15.5	46.5

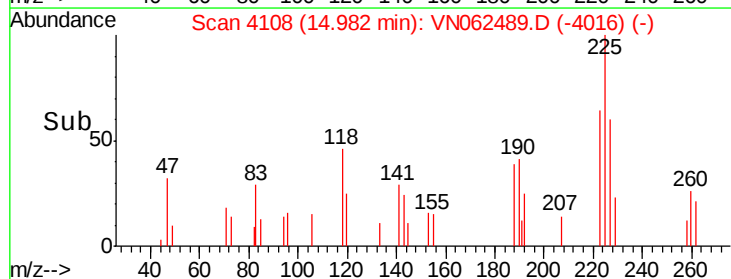
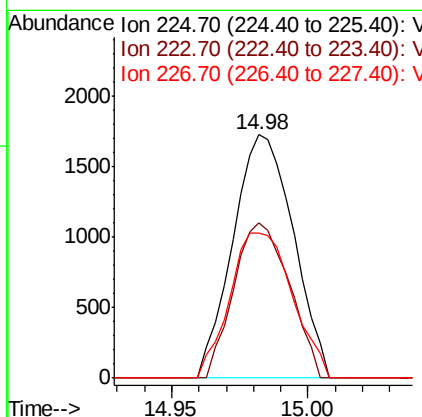
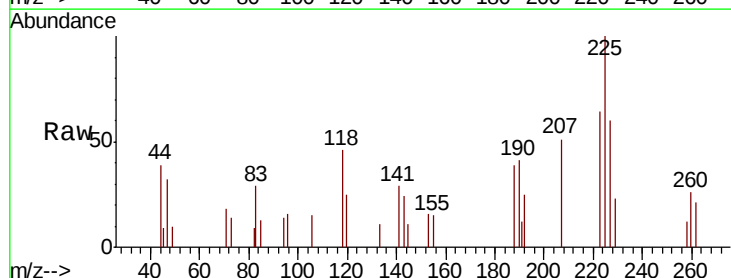
Manual Integrations
 APPROVED

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



#94
 Hexachlorobutadiene
 Concen: 2.924 ug/l
 RT: 14.98 min Scan# 4108
 Delta R.T. -0.00 min
 Lab File: VN062489.D
 Acq: 10 Jul 2020 13:30

Tgt Ion	Ratio	Lower	Upper
225	100		
223	58.6	32.3	96.8
227	61.7	31.9	95.7





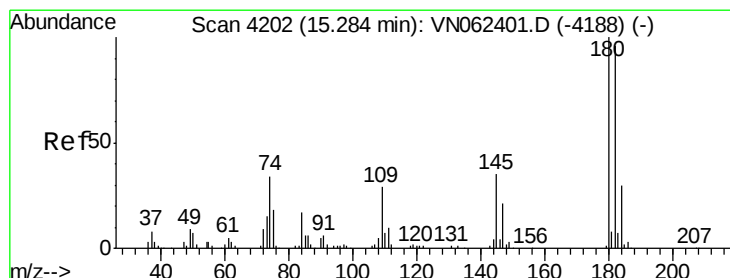
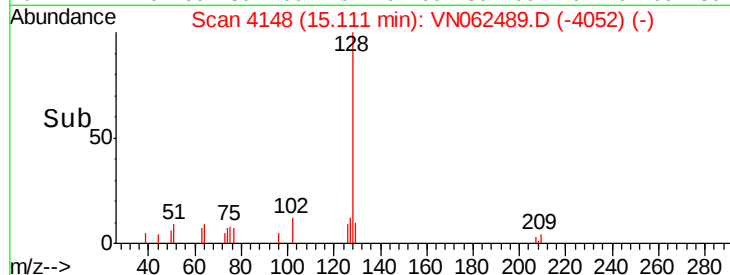
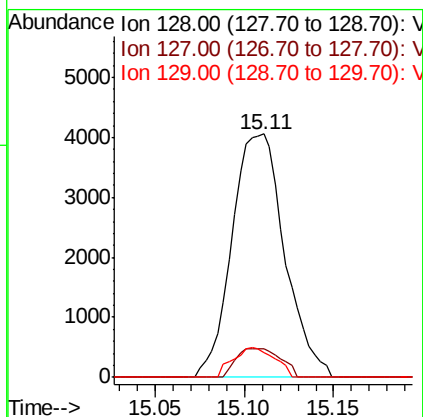
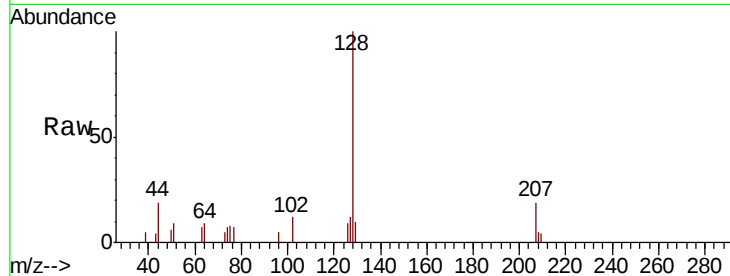
#95
Naphthalene
Concen: 1.914 ug/l
RT: 15.11 min Scan# 4148
Delta R.T. 0.01 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

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

Tot Ion	Ratio	Lower	Upper
128	100		
127	10.1	10.2	15.2#
129	9.7	8.6	12.8

Manual Integrations
APPROVED

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



#96
1,2,3-Trichlorobenzene
Concen: 2.147 ug/l
RT: 15.28 min Scan# 4202
Delta R.T. 0.00 min
Lab File: VN062489.D
Acq: 10 Jul 2020 13:30

Tgt Ion	Ratio	Lower	Upper
180	100		
182	90.6	47.8	143.4
145	32.7	17.0	50.9

