

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072419\
 Data File : VN056893.D
 Acq On : 23 Jul 2019 23:06
 Operator : JC/SP
 Sample : K3591-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

Manual Integrations
 APPROVED

MMDadoda
 7/25/2019 2:20:20 PM

Quant Time: Jul 24 04:23:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072419W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 24 04:16:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	55472	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	300230	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	236332	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	111343	30.67	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.23%
60) 4-Bromofluorobenzene	12.40	95	91097	25.72	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	85.73%
63) Toluene-d8	10.09	98	360907	32.33	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	107.77%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	7868	2.372	ug/l 98
3) Chloromethane	2.06	50	11007	2.720	ug/l 96
4) Vinyl Chloride	2.18	62	10145	2.600	ug/l 94
5) Bromomethane	2.56	94	8766	3.659	ug/l 95
6) Chloroethane	2.70	64	5655	2.613	ug/l # 86
7) Trichlorofluoromethane	3.01	101	12754	2.684	ug/l 92
8) Diethyl Ether	3.40	74	4963	2.803	ug/l 51
9) 1,1,2-Trichlorotrifluoroet	3.74	101	8161	2.735	ug/l 96
10) 1,1-Dichloroethene	3.73	96	8499	2.870	ug/l 94
11) Methyl Iodide	3.95	142	9330	2.130	ug/l 98
12) Methyl Acetate	4.33	43	13147	3.627	ug/l 94
13) Acrolein	3.61	56	5340m	13.019	ug/l
14) Acrylonitrile	4.99	53	16713m	11.957	ug/l
15) Acetone	3.83	58	4843	13.402	ug/l 99
16) Carbon Disulfide	4.05	76	21373m	2.676	ug/l
17) Allyl chloride	4.31	41	12214	2.465	ug/l 93
18) Methylene Chloride	4.55	84	9573	2.777	ug/l 99
19) trans-1,2-Dichloroethene	5.04	96	8115	2.589	ug/l 90
20) Diisopropyl ether	5.95	45	25884	2.573	ug/l 93
21) 1,1-Dichloroethane	5.84	63	15549m	2.659	ug/l
22) cis-1,2-Dichloroethene	6.83	96	9483	2.611	ug/l 97
23) tert-Butyl Alcohol	4.80	59	6184m	13.258	ug/l
24) Methyl tert-Butyl Ether	5.04	73	22732m	2.539	ug/l
25) Chloroform	7.37	83	16717	2.931	ug/l 86
26) Cyclohexane	7.65	56	13511	2.515	ug/l # 99
29) 1,1-Dichloropropene	7.79	75	10358	2.431	ug/l 99
30) 2-Butanone	6.85	43	21030	12.286	ug/l # 95
31) 2,2-Dichloropropane	6.82	77	9453m	2.391	ug/l
32) 1,1,1-Trichloroethane	7.57	97	11689	2.497	ug/l 98
33) Carbon Tetrachloride	7.77	117	9894	2.421	ug/l 89
34) Benzene	8.04	78	34935	2.602	ug/l # 9
35) Methacrylonitrile	7.17	41	4052	2.370	ug/l 87
36) 1,2-Dichloroethane	8.12	62	11473	2.749	ug/l 100
37) Trichloroethene	8.84	130	9979	2.773	ug/l 93
38) Methylcyclohexane	9.08	83	13722	2.532	ug/l 98
39) 1,2-Dichloropropane	9.12	63	9825	2.742	ug/l 100
40) Dibromomethane	9.21	93	5931	2.698	ug/l 96

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

41) Bromodichloromethane	9.40	83	10334	2.446	ug/l	97
42) Vinyl Acetate	5.90	43	85969	11.278	ug/l #	87
43) Ethyl Acetate	6.94	43	7916	2.256	ug/l #	94
44) Isopropyl Acetate	8.17	43	15386	2.630	ug/l #	57
45) 1,4-Dioxane	9.20	88	2698	48.452	ug/l	98
46) Methyl methacrylate	9.20	41	7115	2.438	ug/l	97
47) n-amyl Acetate	12.07	43	9433	2.015	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	9757	2.220	ug/l	93
49) cis-1,3-Dichloropropene	9.84	75	11372	2.220	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	8247	2.613	ug/l	95
51) Ethyl methacrylate	10.43	69	10003	2.191	ug/l	95
52) 1,3-Dichloropropane	10.71	76	13672	2.567	ug/l	99
53) Dibromochloromethane	10.90	129	7449	2.271	ug/l	96
54) 1,2-Dibromoethane	11.00	107	7798	2.422	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	19983	10.107	ug/l	98
56) Bromoform	12.12	173	4297	1.893	ug/l #	96
58) 4-Methyl-2-Pentanone	9.99	43	44980	14.183	ug/l	97
59) 2-Hexanone	10.75	43	27862	12.892	ug/l	94
61) Tetrachloroethene	10.63	164	10070	3.040	ug/l	97
62) Toluene	10.16	91	37298	2.902	ug/l	98
64) Chlorobenzene	11.43	112	21295	2.750	ug/l	91
65) 1,1,1,2-Tetrachloroethane	11.51	131	8095	2.760	ug/l	97
66) Ethyl Benzene	11.51	91	34414	2.541	ug/l	98
67) m/p-Xylenes	11.62	106	24741	4.898	ug/l	98
68) o-Xylene	11.95	106	12648	2.547	ug/l	97
69) Styrene	11.96	104	16653	2.069	ug/l	96
70) Isopropylbenzene	12.25	105	32647	2.497	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	10074	2.751	ug/l	97
72) 1,2,3-Trichloropropane	12.55	75	9014m	2.797	ug/l	
73) Bromobenzene	12.53	156	8091	2.398	ug/l	99
74) n-propylbenzene	12.59	91	31564	2.208	ug/l	99
75) 2-Chlorotoluene	12.67	91	20693	2.387	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	26547	2.412	ug/l	97
77) t-1,4-Dichloro-2-butene	12.30	75	1713	1.693	ug/l	82
78) 4-Chlorotoluene	12.77	91	16666	2.023	ug/l	99
79) tert-butylbenzene	12.99	119	24100	2.537	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	22709	2.116	ug/l	97
81) sec-Butylbenzene	13.17	105	28700	2.314	ug/l	98
82) p-Isopropyltoluene	13.29	119	24421	2.193	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	9615	1.810	ug/l	97
84) 1,4-Dichlorobenzene	13.36	146	9355	1.862	ug/l	97
85) n-Butylbenzene	13.61	91	15964	1.825	ug/l	95
86) Hexachloroethane	13.87	117	4250	2.280	ug/l	95
87) 1,2-Dichlorobenzene	13.65	146	10916	2.069	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	14.27	75	1151	2.032	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	3069	1.205	ug/l	95
90) Hexachlorobutadiene	15.00	225	5309	2.737	ug/l	94
91) Naphthalene	15.13	128	8618	1.303	ug/l	98
92) 1,2,3-Trichlorobenzene	15.32	180	4267	1.530	ug/l	94

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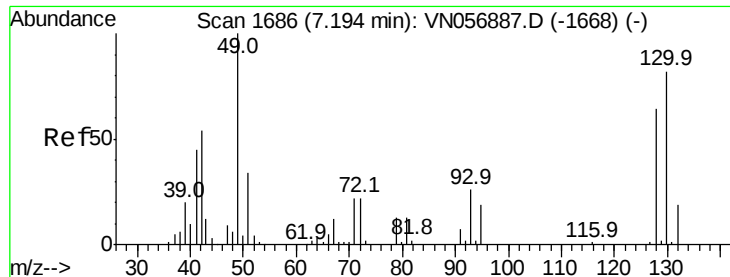
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

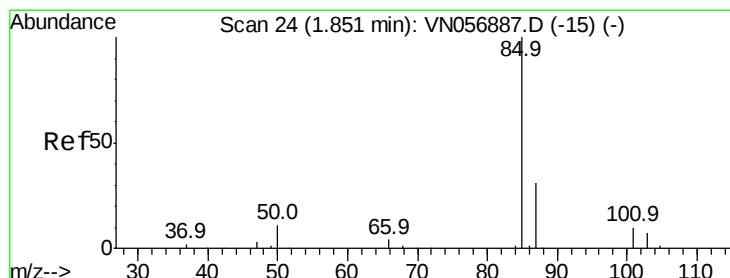
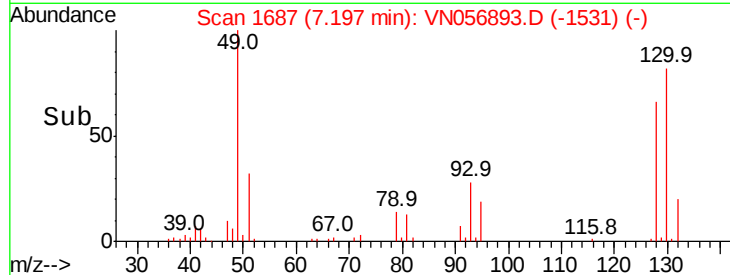
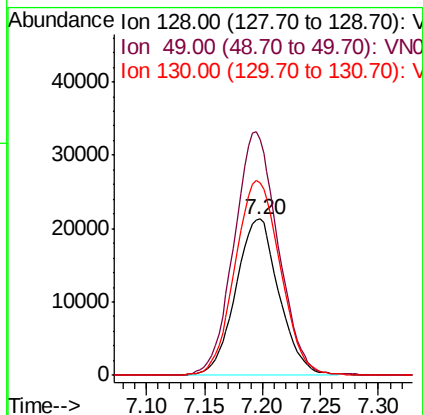
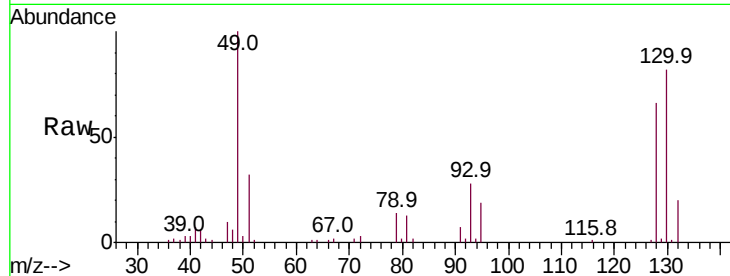
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion:	128	Resp:	55472
Ion	Ratio	Lower	Upper
128	100		
49	157.8	0.0	385.8
130	130.5	0.0	322.5

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#2

Dichlorodifluoromethane

Concen: 2.372 ug/l

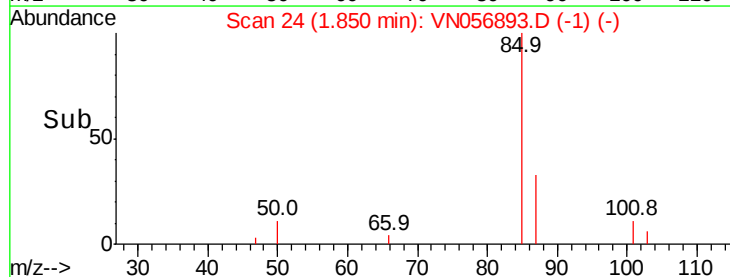
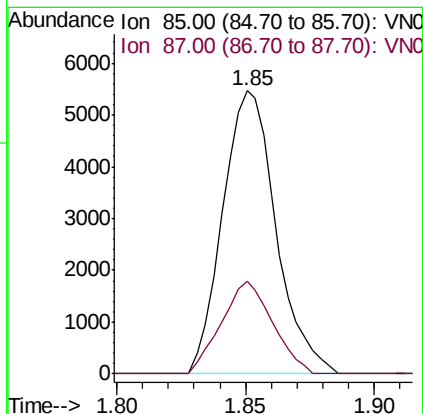
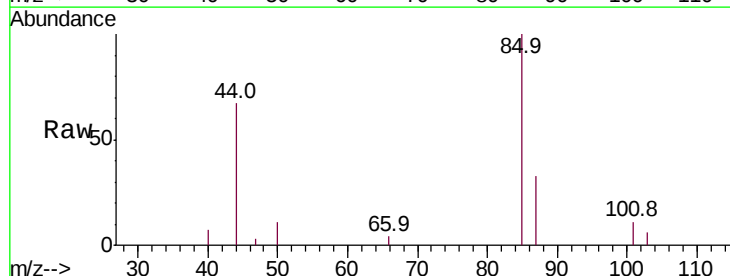
RT: 1.85 min Scan# 24

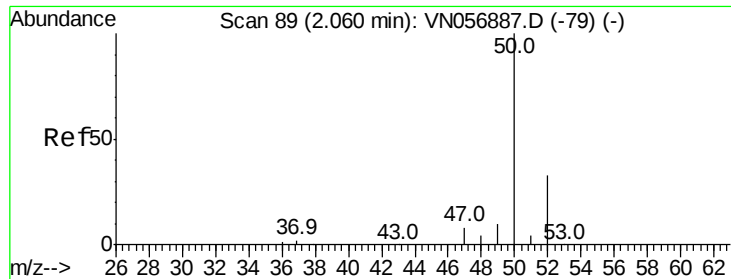
Delta R.T. -0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Tgt Ion:	85	Resp:	7868
Ion	Ratio	Lower	Upper
85	100		
87	32.5	15.6	46.8





#3

Chloromethane

Concen: 2.720 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion: 50 Resp: 11007

Ion Ratio Lower Upper

50 100

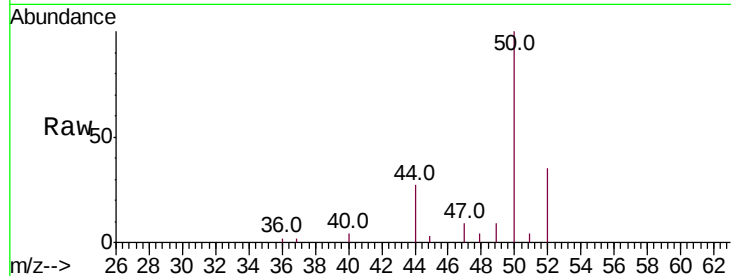
52 35.1 26.2 39.2

Manual Integrations

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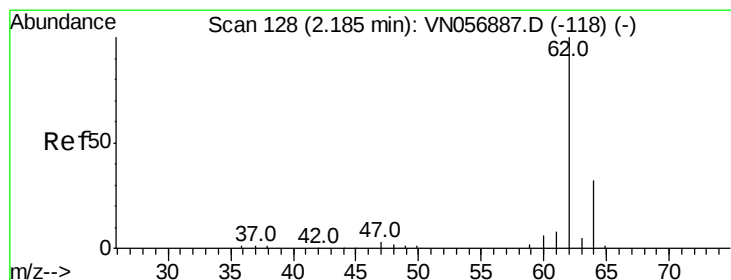
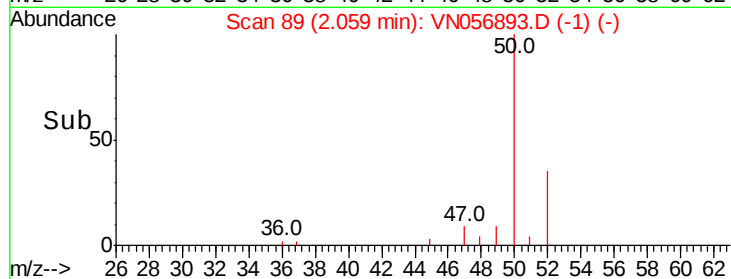
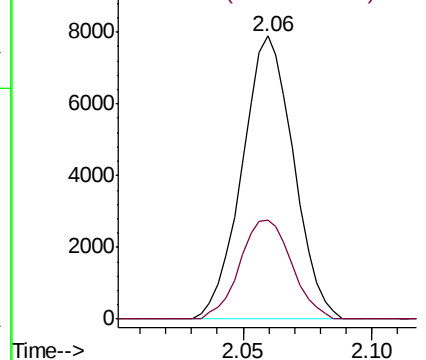
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Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#4

Vinyl Chloride

Concen: 2.600 ug/l

RT: 2.18 min Scan# 128

Delta R.T. -0.00 min

Lab File: VN056893.D

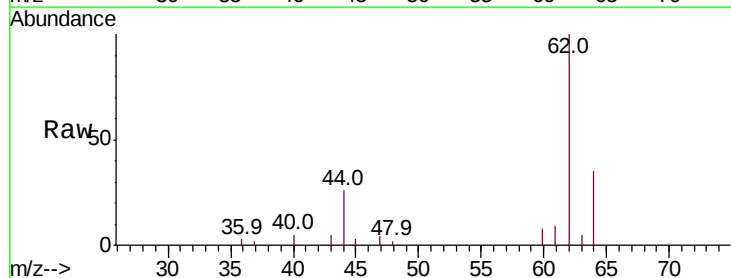
Acq: 23 Jul 2019 23:06

Tgt Ion: 62 Resp: 10145

Ion Ratio Lower Upper

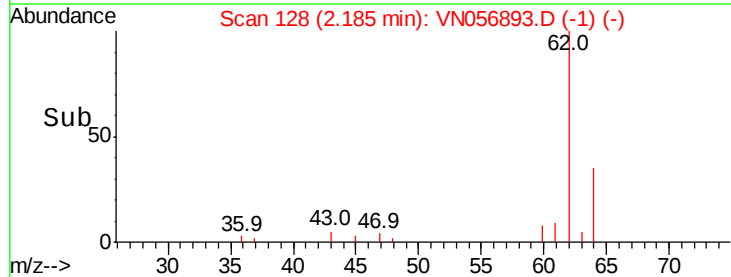
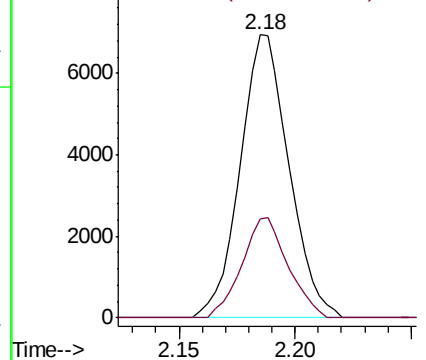
62 100

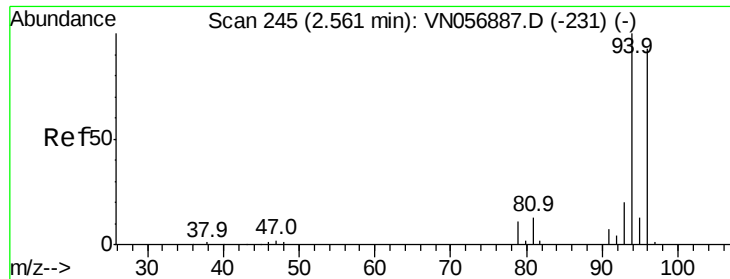
64 34.9 25.4 38.0



Abundance Ion 62.00 (61.70 to 62.70): VN0

Ion 64.00 (63.70 to 64.70): VN0





#5

Bromomethane

Concen: 3.659 ug/l

RT: 2.56 min Scan# 246

Delta R.T. 0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion: 94 Resp: 8766

Ion Ratio Lower Upper

94 100

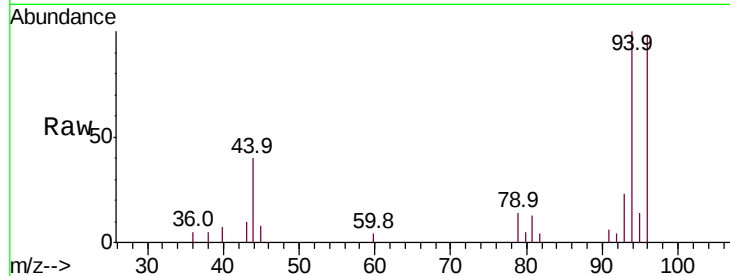
96 97.8 74.7 112.1

Manual Integrations

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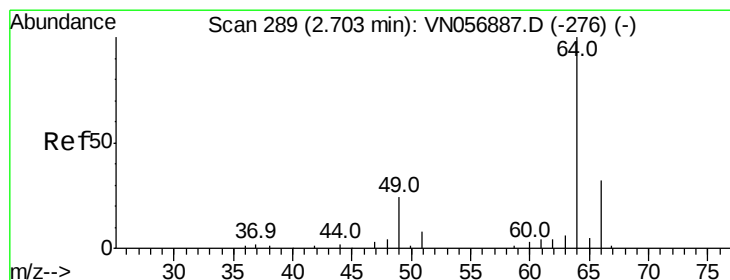
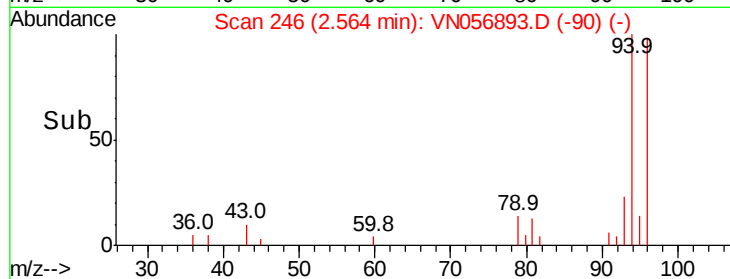
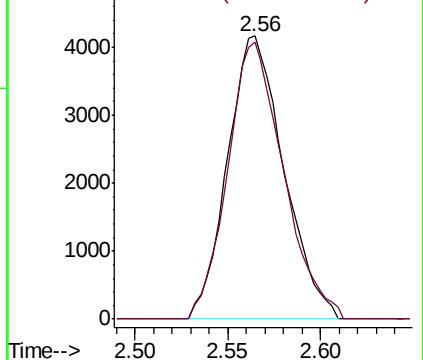
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Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 2.613 ug/l

RT: 2.70 min Scan# 289

Delta R.T. -0.00 min

Lab File: VN056893.D

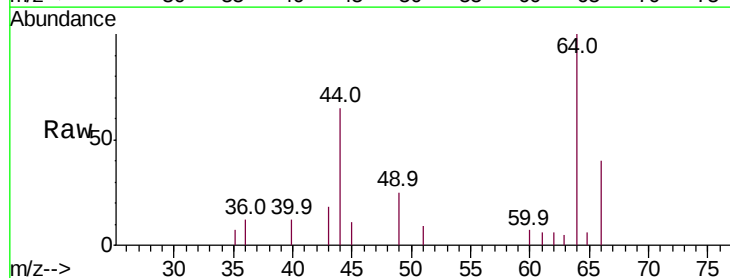
Acq: 23 Jul 2019 23:06

Tgt Ion: 64 Resp: 5655

Ion Ratio Lower Upper

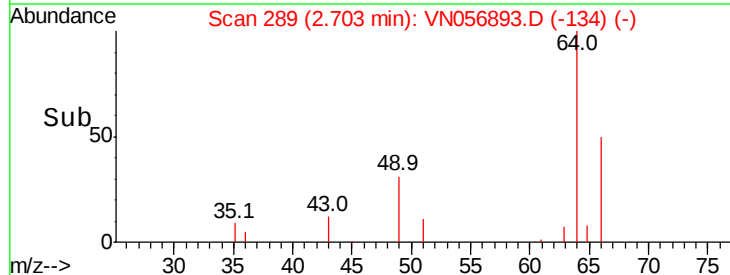
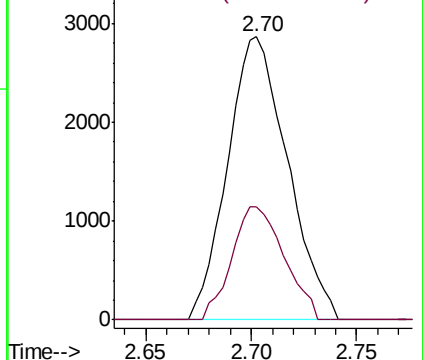
64 100

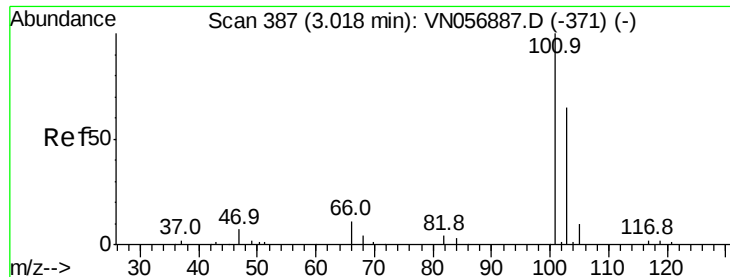
66 40.2 25.8 38.8#



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0





#7

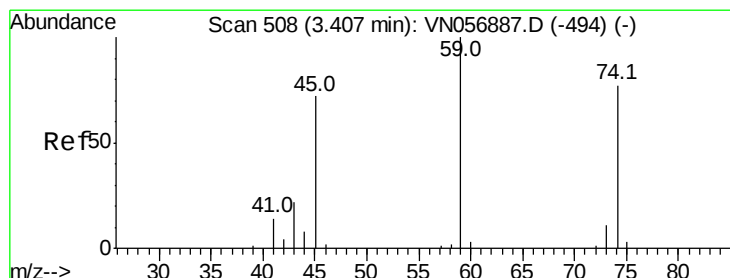
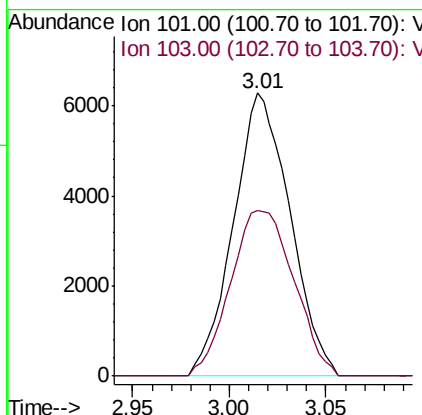
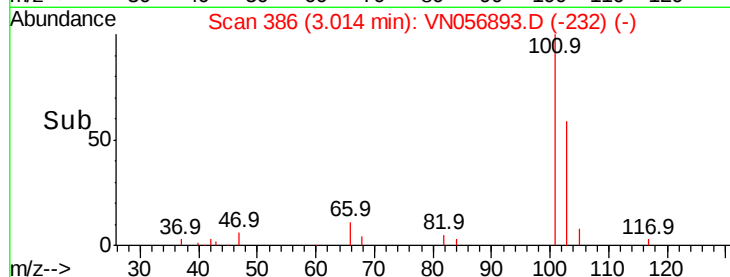
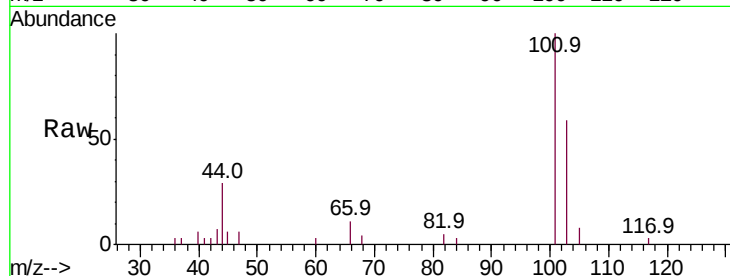
Trichlorofluoromethane
Concen: 2.684 ug/l
RT: 3.01 min Scan# 386
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion:101 Resp: 12754
Ion Ratio Lower Upper
101 100
103 58.6 52.2 78.4

Manual Integrations
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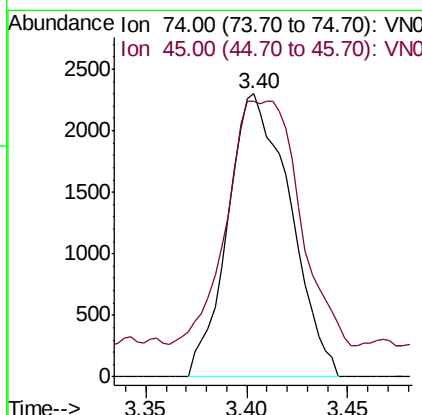
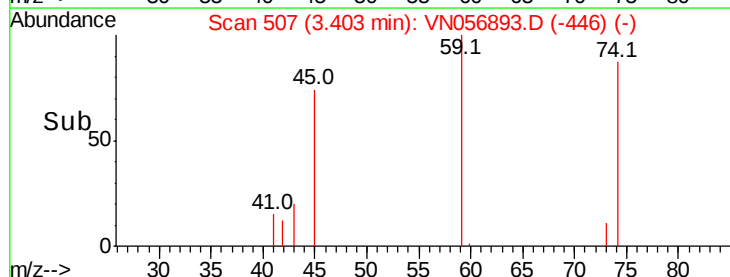
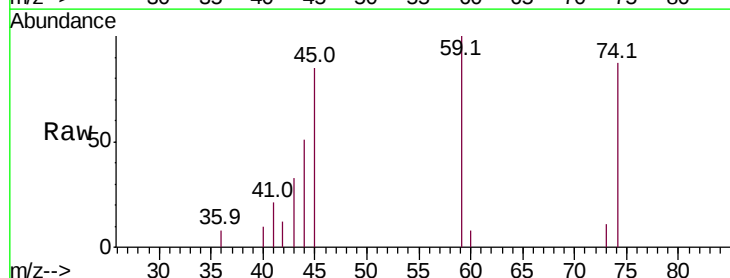
MMDadoda
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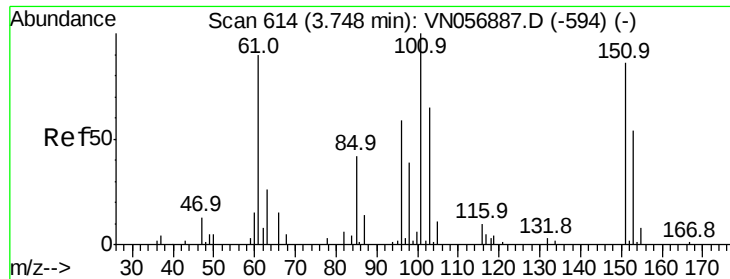


#8

Diethyl Ether
Concen: 2.803 ug/l
RT: 3.40 min Scan# 507
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Tgt Ion: 74 Resp: 4963
Ion Ratio Lower Upper
74 100
45 48.9 19.5 175.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.735 ug/l

RT: 3.74 min Scan# 613

Delta R.T. -0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

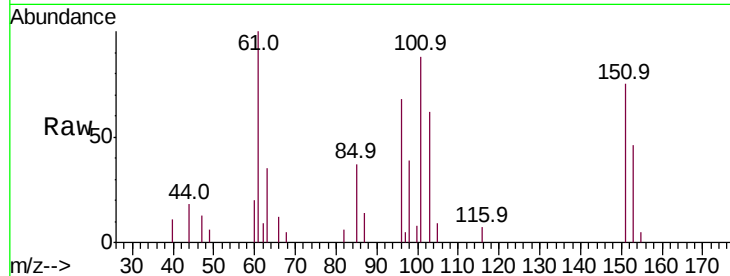
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
101	100		
85	41.0	0.0	85.0
151	88.5	0.0	167.2

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APPROVED

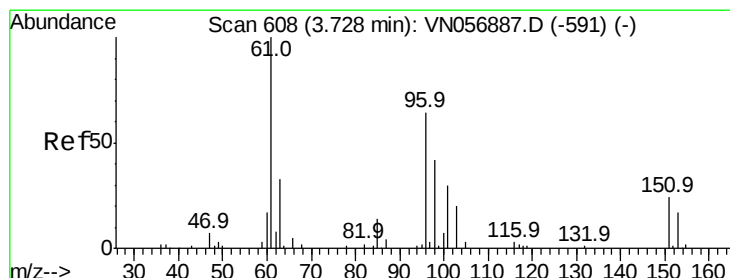
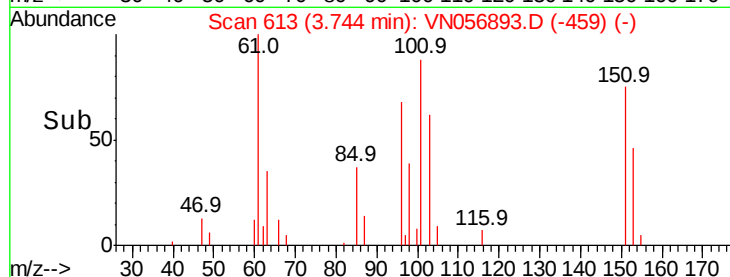
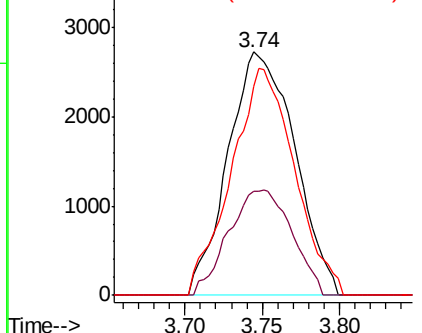
MMDadoda
7/25/2019 2:20:20 PM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VNO

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 2.870 ug/l

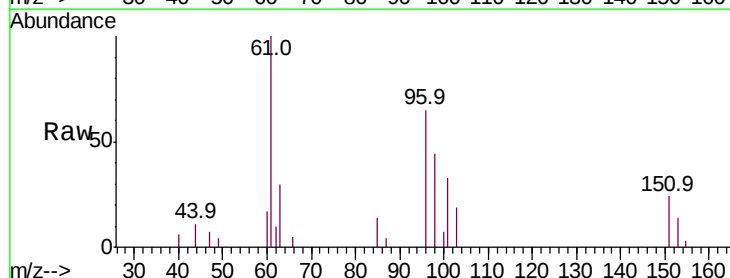
RT: 3.73 min Scan# 608

Delta R.T. -0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

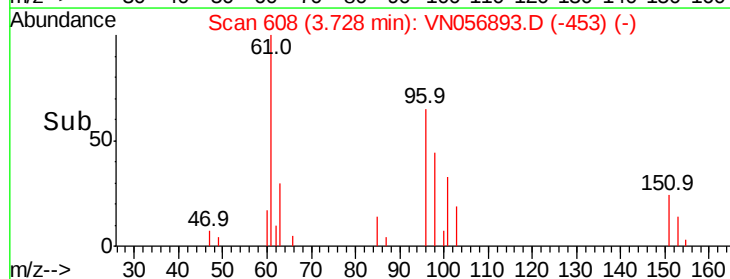
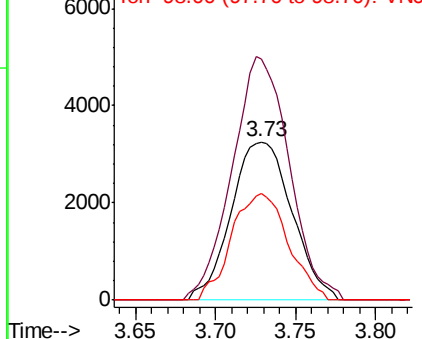
Tgt Ion	Ratio	Lower	Upper
96	100		
61	148.1	125.8	188.8
98	67.4	52.7	79.1

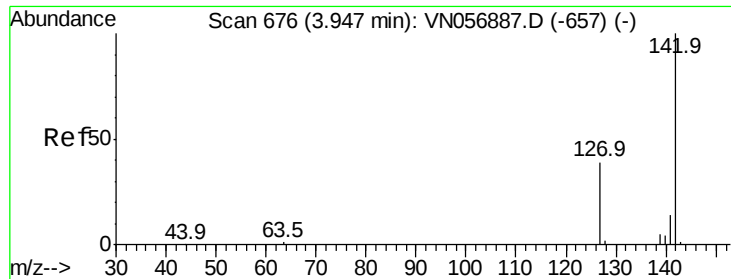


Abundance Ion 96.00 (95.70 to 96.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 98.00 (97.70 to 98.70): VNO





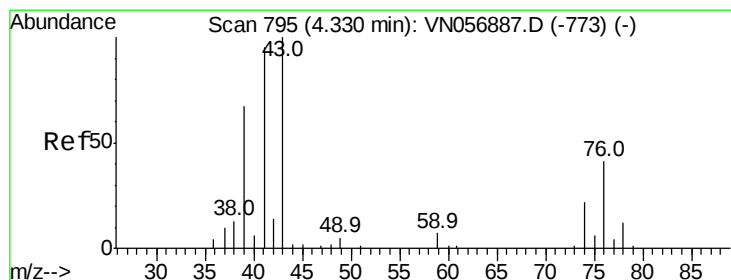
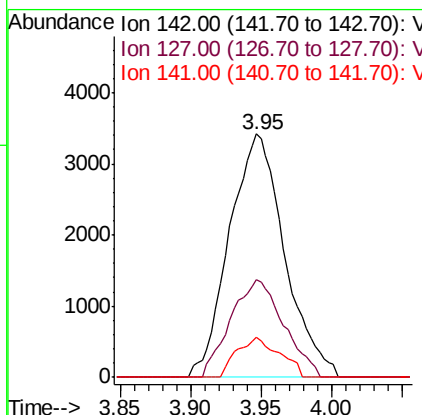
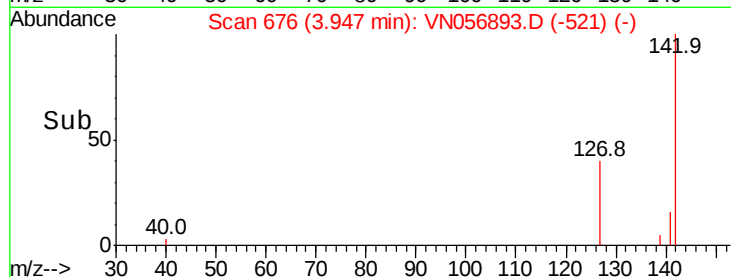
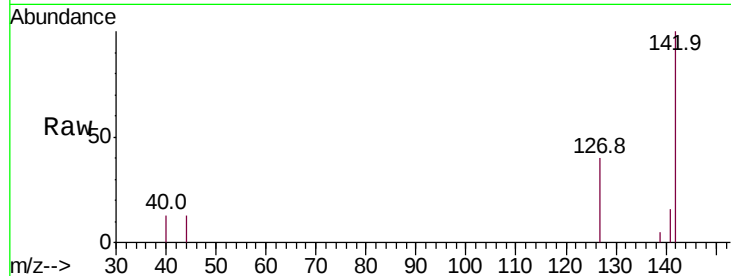
#11
Methvl Iodide
Concen: 2.130 ug/l
RT: 3.95 min Scan# 676
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion:142 Resp: 9330
Ion Ratio Lower Upper
142 100
127 40.1 19.6 58.8
141 16.4 7.2 21.6

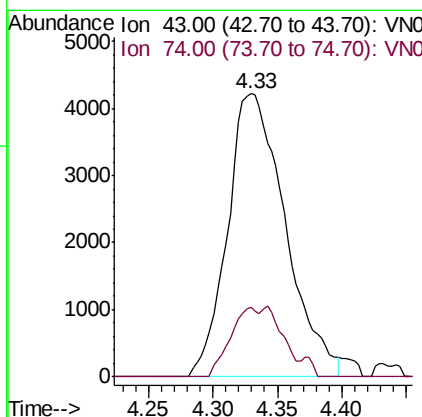
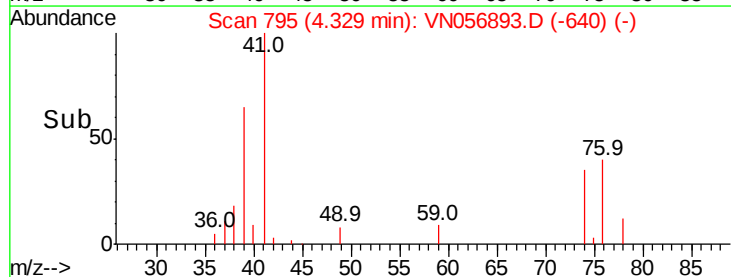
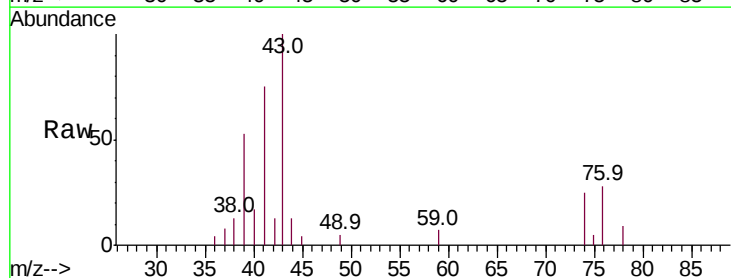
Manual Integrations
APPROVED

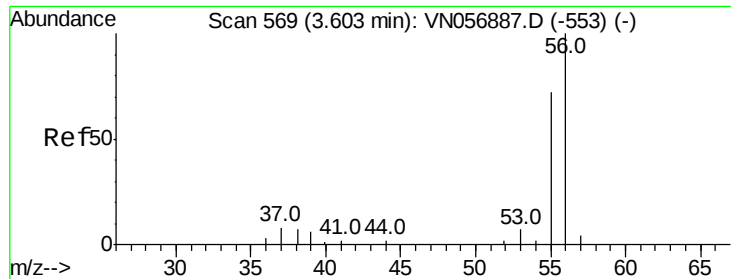
MMDadoda
7/25/2019 2:20:20 PM



#12
Methyl Acetate
Concen: 3.627 ug/l
RT: 4.33 min Scan# 795
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Tgt Ion: 43 Resp: 13147
Ion Ratio Lower Upper
43 100
74 25.7 18.1 27.1





#13

Acrolein

Concen: 13.019 ug/l m

RT: 3.61 min Scan# 571

Delta R.T. 0.01 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion: 56 Resp: 5340

Ion Ratio Lower Upper

56 100

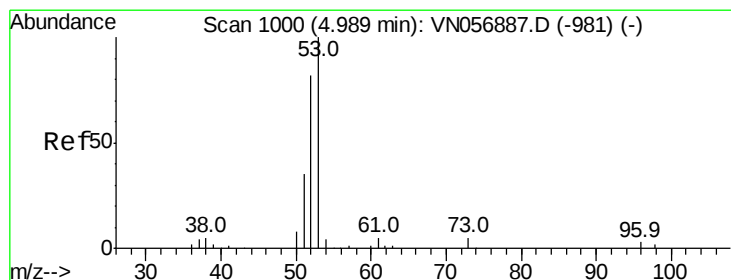
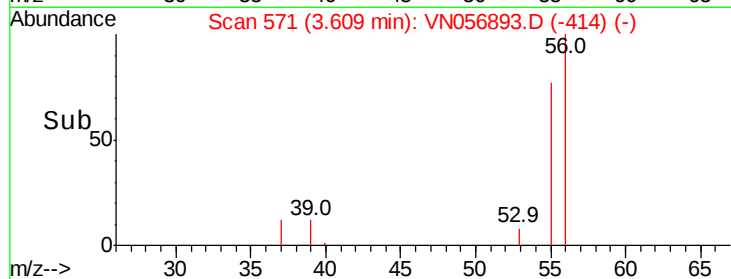
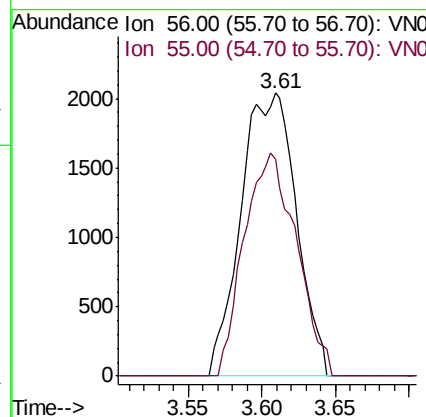
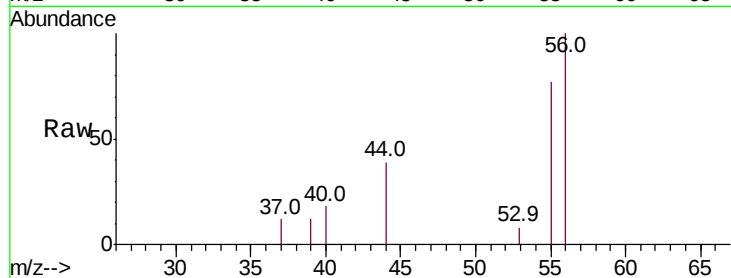
55 73.7 58.5 87.7

Manual Integrations

APPROVED

MMDadoda

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#14

Acrylonitrile

Concen: 11.957 ug/l m

RT: 4.99 min Scan# 1000

Delta R.T. -0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

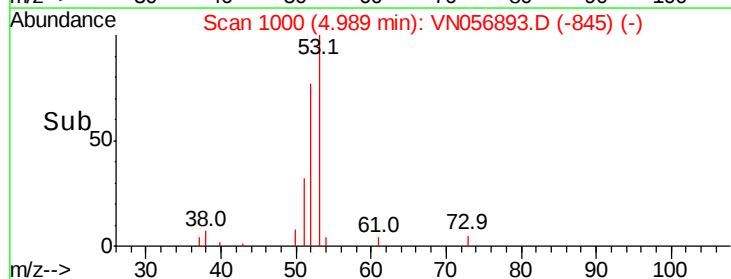
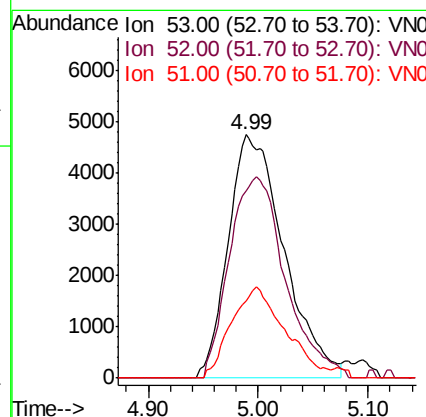
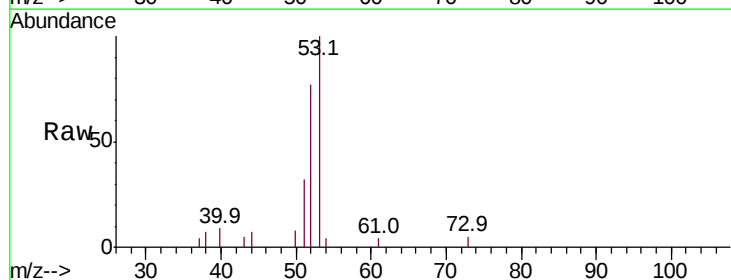
Tgt Ion: 53 Resp: 16713

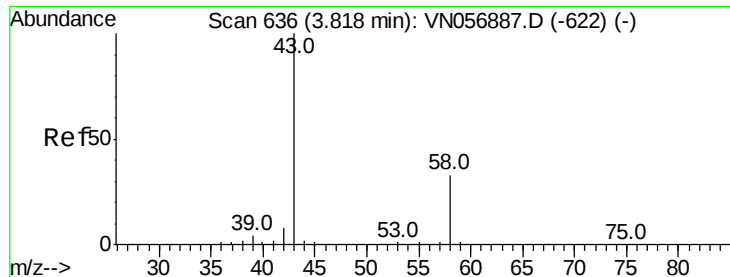
Ion Ratio Lower Upper

53 100

52 83.1 40.8 122.5

51 31.2 17.4 52.2





#15

Acetone

Concen: 13.402 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion: 58 Resp: 4843

Ion Ratio Lower Upper

58 100

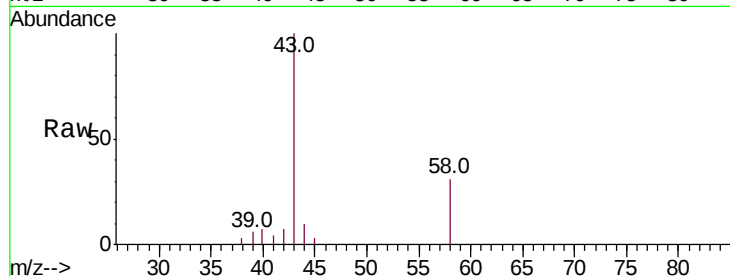
43 304.1 242.4 363.6

Manual Integrations

APPROVED

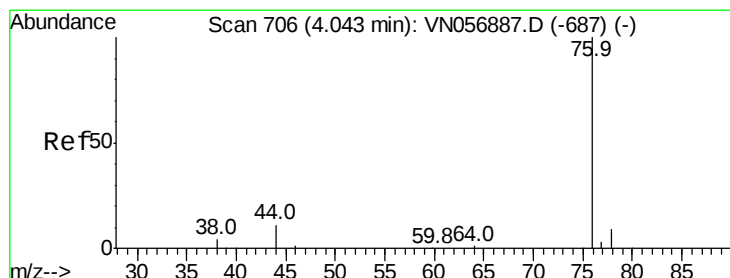
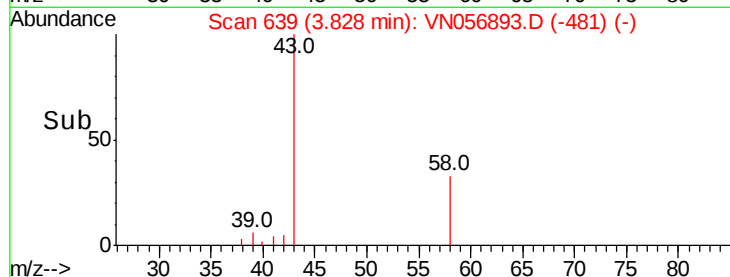
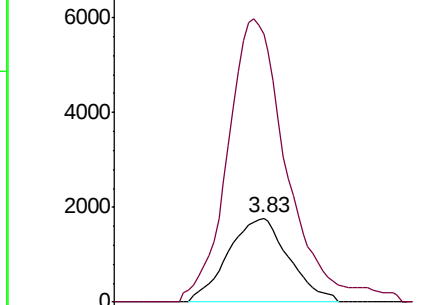
MMDadoda

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Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#16

Carbon Disulfide

Concen: 2.676 ug/l m

RT: 4.05 min Scan# 708

Delta R.T. 0.01 min

Lab File: VN056893.D

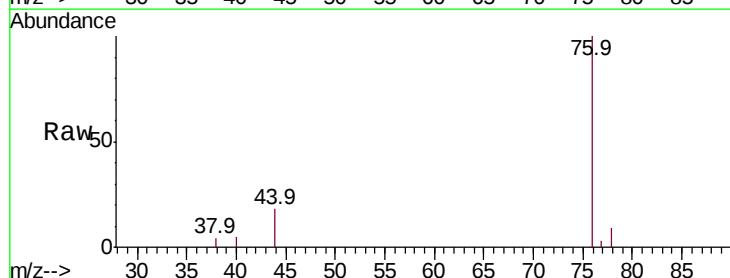
Acq: 23 Jul 2019 23:06

Tgt Ion: 76 Resp: 21373

Ion Ratio Lower Upper

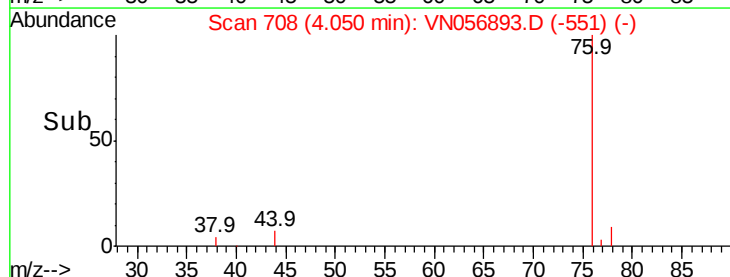
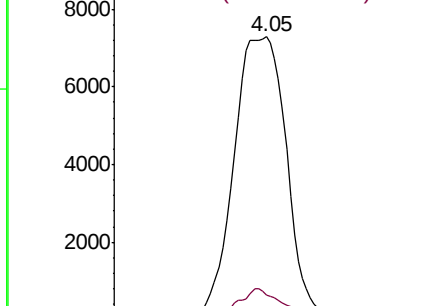
76 100

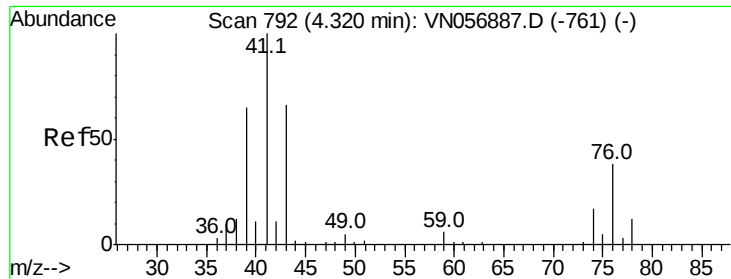
78 8.7 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0





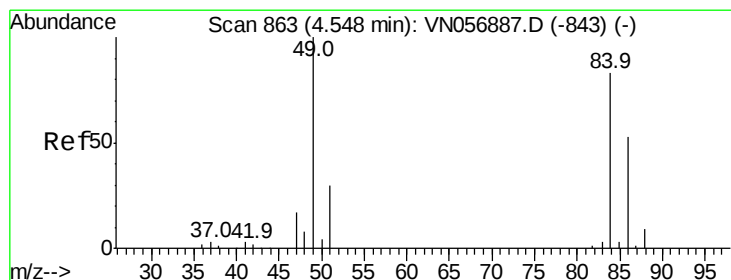
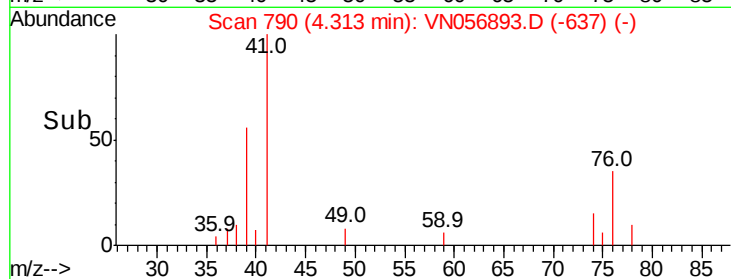
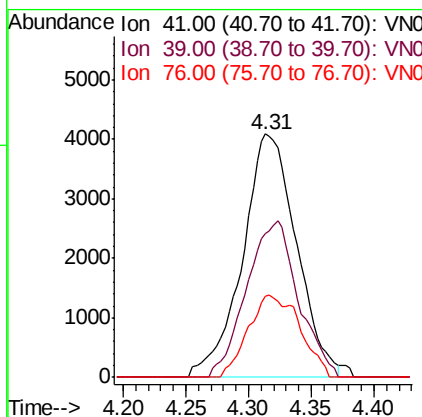
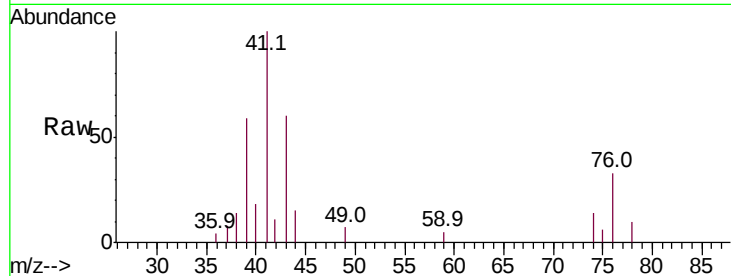
#17
Allvl chloride
Concen: 2.465 ug/l
RT: 4.31 min Scan# 790
Delta R.T. -0.01 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion:	41	Resp:	12214
Ion	Ratio	Lower	Upper
41	100		
39	59.3	32.4	97.0
76	33.1	19.0	57.0

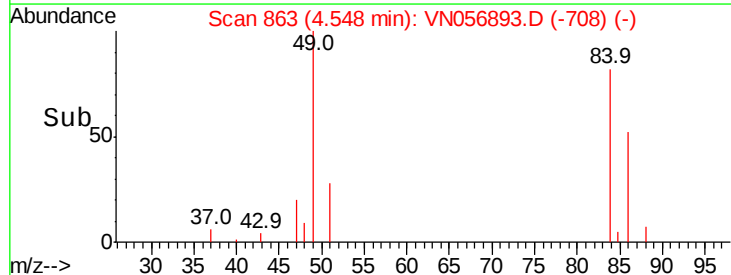
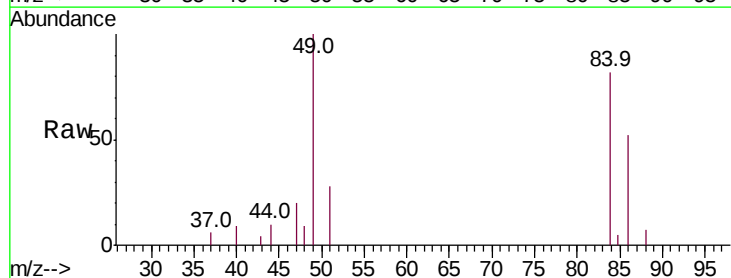
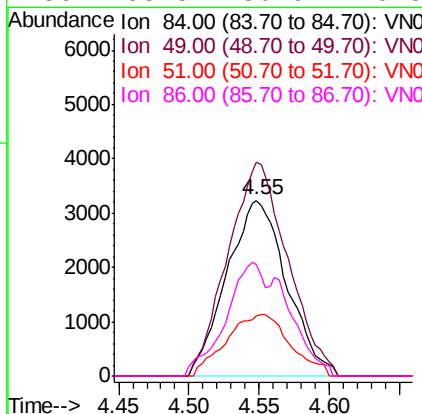
Manual Integrations
APPROVED

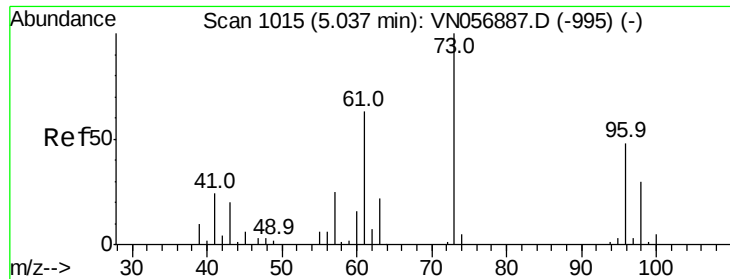
MMDadoda
7/25/2019 2:20:20 PM



#18
Methylene Chloride
Concen: 2.777 ug/l
RT: 4.55 min Scan# 863
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Tgt Ion:	84	Resp:	9573
Ion	Ratio	Lower	Upper
84	100		
49	121.6	96.3	144.5
51	34.3	28.8	43.2
86	63.5	50.9	76.3





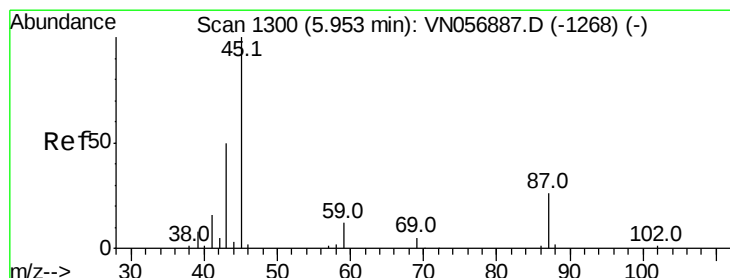
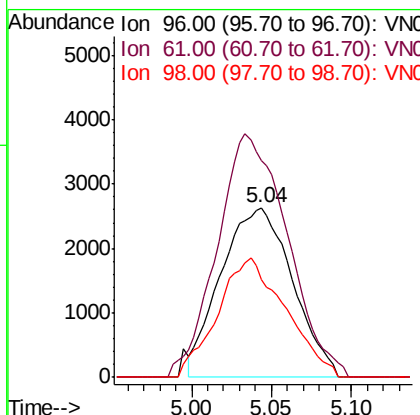
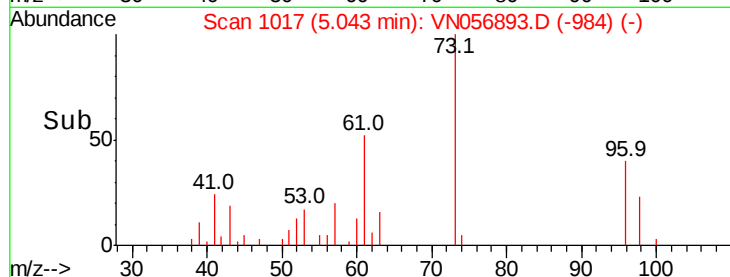
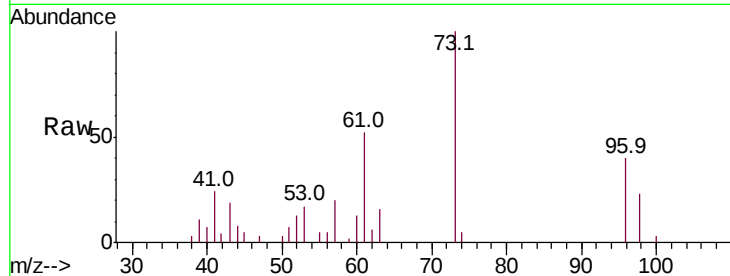
#19
trans-1,2-Dichloroethene
Concen: 2.589 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. 0.01 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
96	100		
61	119.1	105.4	158.0
98	58.0	50.8	76.2

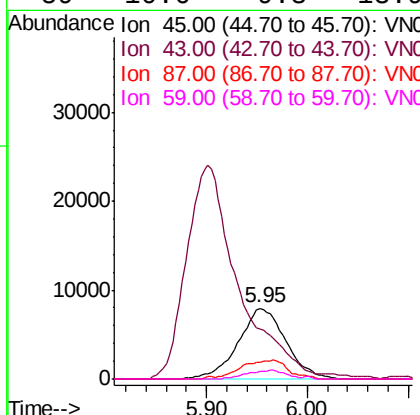
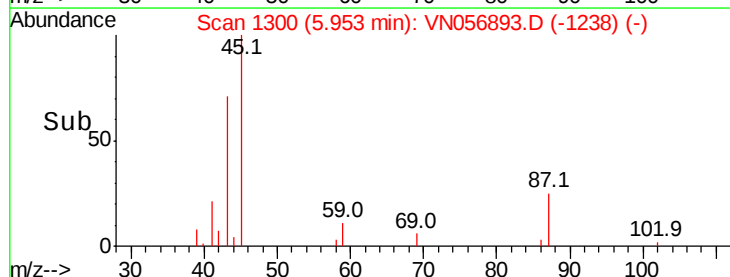
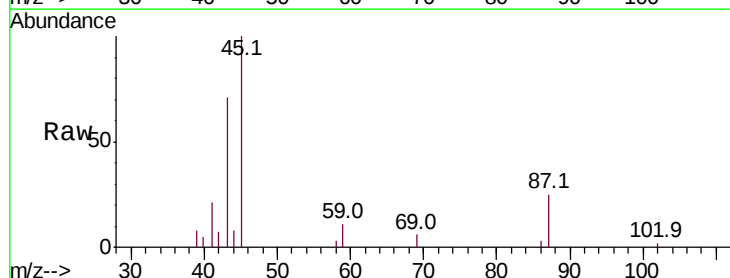
Manual Integrations
APPROVED

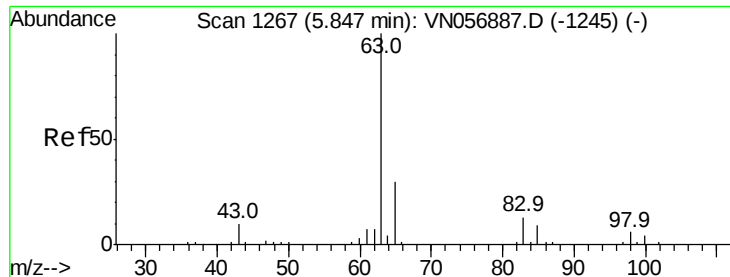
MMDadoda
7/25/2019 2:20:20 PM



#20
Diisopropyl ether
Concen: 2.573 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Tgt Ion	Ratio	Lower	Upper
45	100		
43	65.6	47.4	71.0
87	24.5	21.7	32.5
59	10.6	9.3	13.9





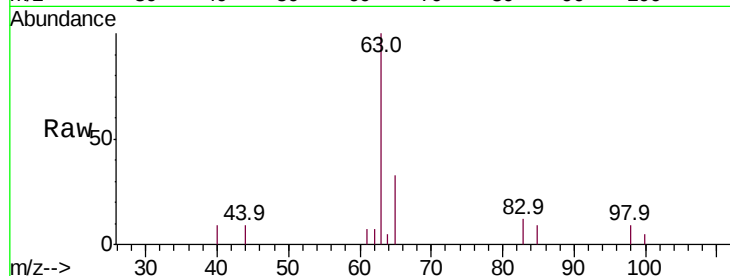
#21
 1,1-Dichloroethane
 Concen: 2.659 ug/l m
 RT: 5.84 min Scan# 1265
 Delta R.T. -0.01 min
 Lab File: VN056893.D
 Acq: 23 Jul 2019 23:06

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

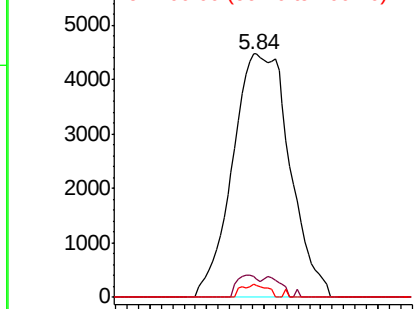
Tot Ion:	63	Resp:	15549
Ion	Ratio	Lower	Upper
63	100		
98	8.8	3.1	9.3
100	5.4	1.8	5.5

Manual Integrations
 APPROVED

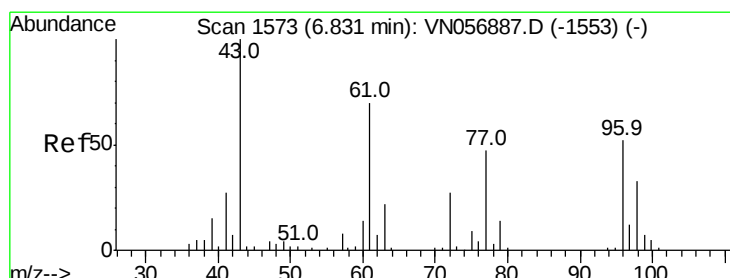
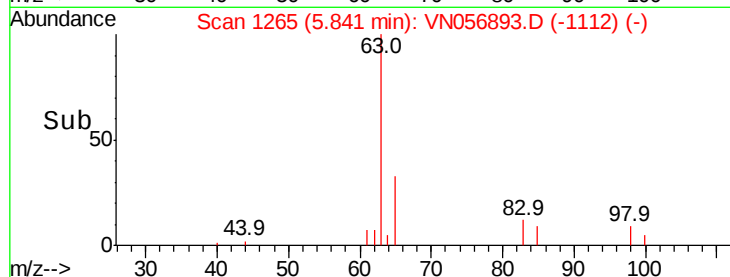
MMDadoda
 7/25/2019 2:20:20 PM



Abundance Ion 63.00 (62.70 to 63.70): VN0
 Ion 98.00 (97.70 to 98.70): VN0
 Ion 100.00 (99.70 to 100.70): VN0



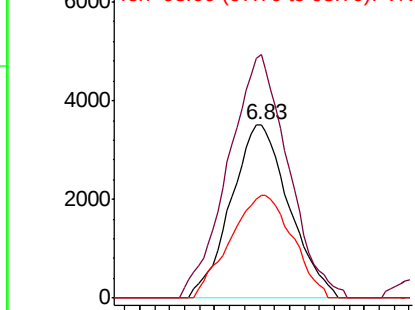
Time-->



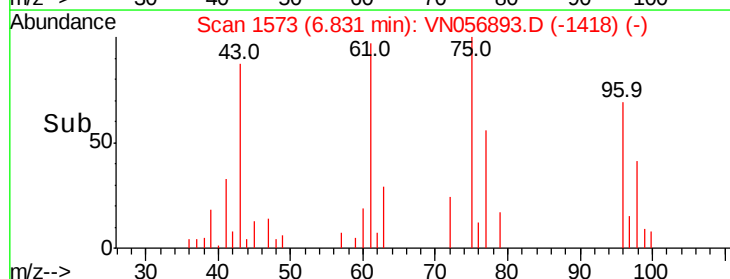
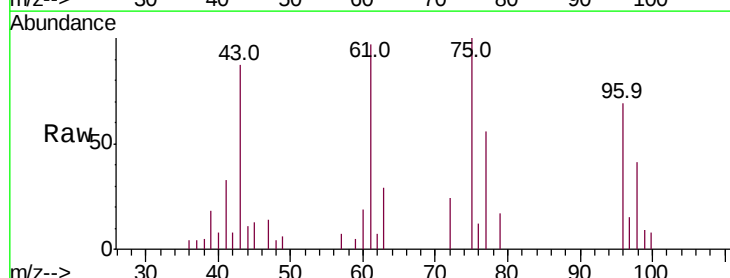
#22
 cis-1,2-Dichloroethene
 Concen: 2.611 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. -0.00 min
 Lab File: VN056893.D
 Acq: 23 Jul 2019 23:06

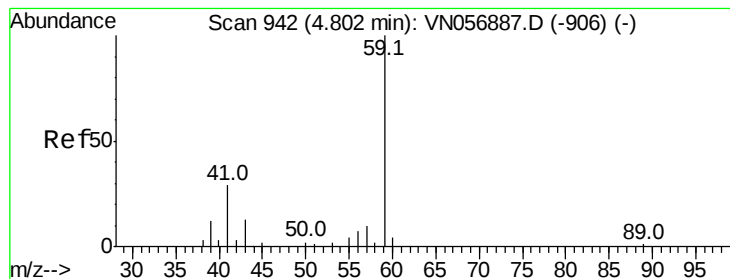
Tgt Ion:	96	Resp:	9483
Ion	Ratio	Lower	Upper
96	100		
61	144.9	111.6	167.4
98	63.4	51.0	76.4

Abundance Ion 96.00 (95.70 to 96.70): VN0
 Ion 61.00 (60.70 to 61.70): VN0
 Ion 98.00 (97.70 to 98.70): VN0



Time-->





#23

tert-Butyl Alcohol

Concen: 13.258 ug/l m

RT: 4.80 min Scan# 940

Delta R.T. -0.01 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion: 59 Resp: 6184

Ion Ratio Lower Upper

59 100

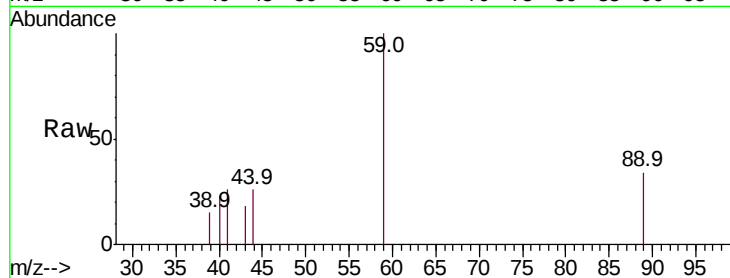
52 0.0 0.0 0.0

Manual Integrations

APPROVED

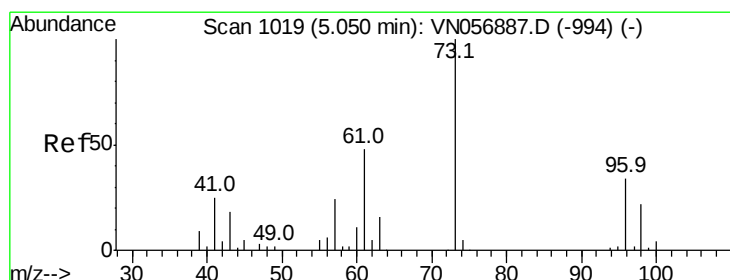
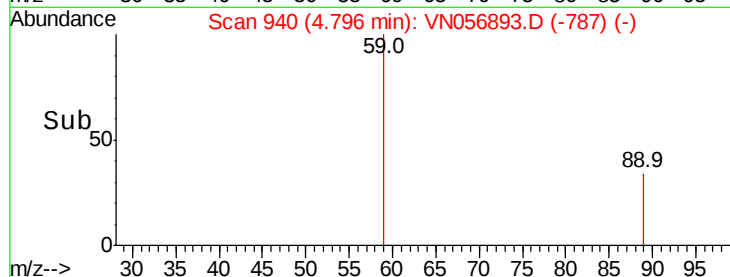
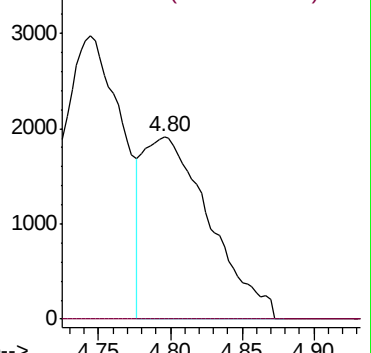
MMDadoda

7/25/2019 2:20:20 PM



Abundance Ion 59.00 (58.70 to 59.70): VN056887.D (-906) (-)

Ion 52.00 (51.70 to 52.70): VN056887.D (-906) (-)



#24

Methyl tert-Butyl Ether

Concen: 2.539 ug/l m

RT: 5.04 min Scan# 1017

Delta R.T. -0.01 min

Lab File: VN056893.D

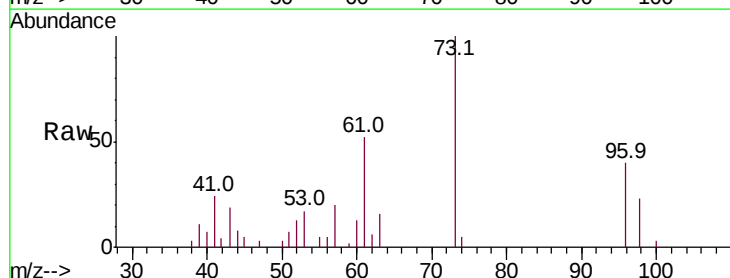
Acq: 23 Jul 2019 23:06

Tgt Ion: 73 Resp: 22732

Ion Ratio Lower Upper

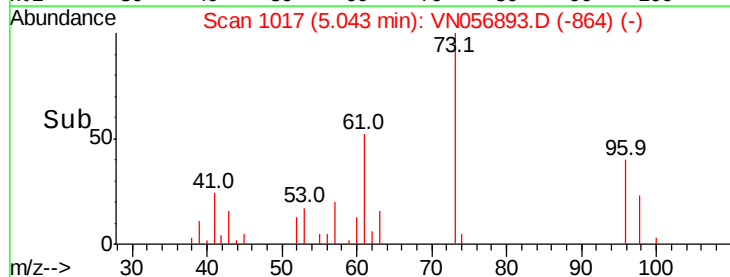
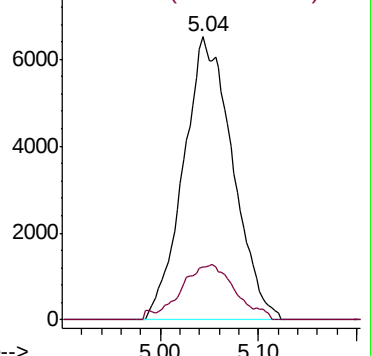
73 100

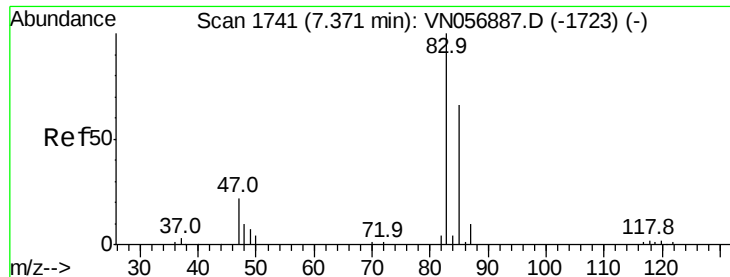
43 17.5 15.4 23.0



Abundance Ion 73.00 (72.70 to 73.70): VN056887.D (-994) (-)

Ion 43.00 (42.70 to 43.70): VN056887.D (-994) (-)





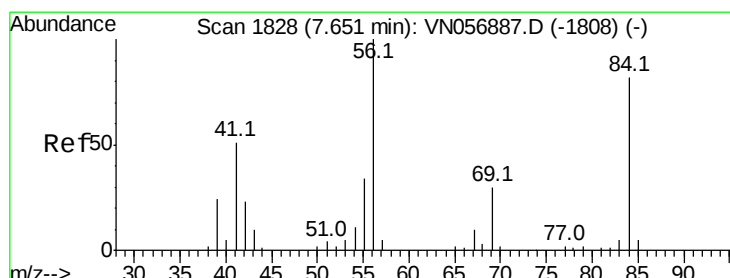
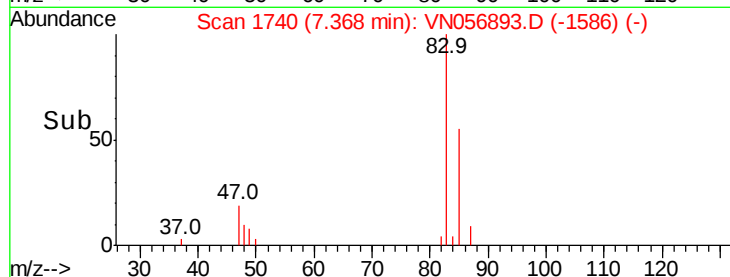
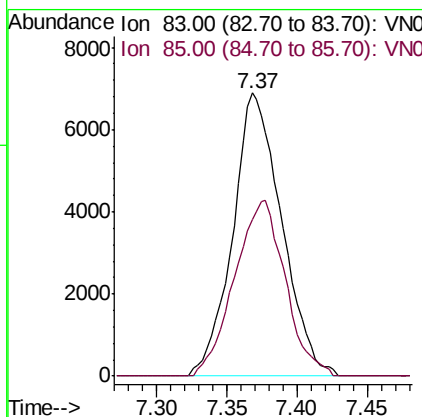
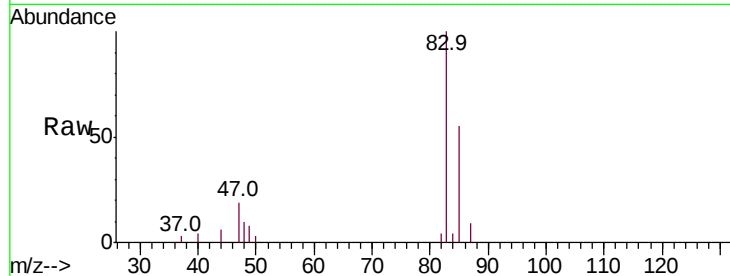
#25
Chloroform
Concen: 2.931 ug/l
RT: 7.37 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion	83	Resp	16717
Ion Ratio	100	Lower	Upper
83	100		
85	55.3	53.1	79.7

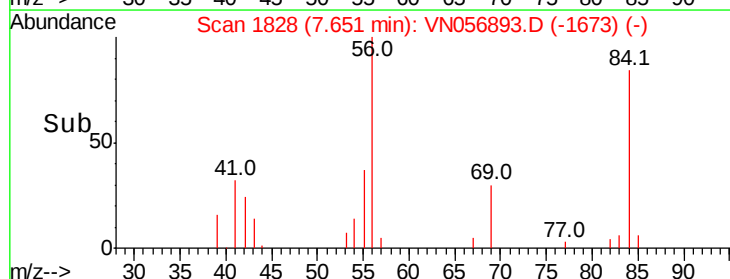
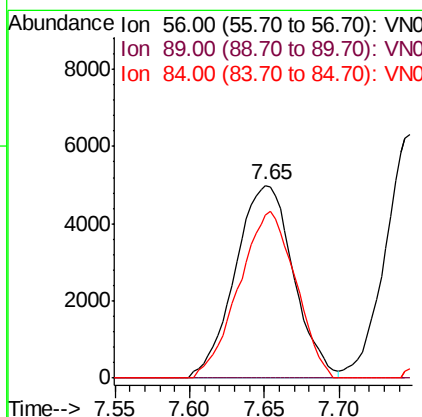
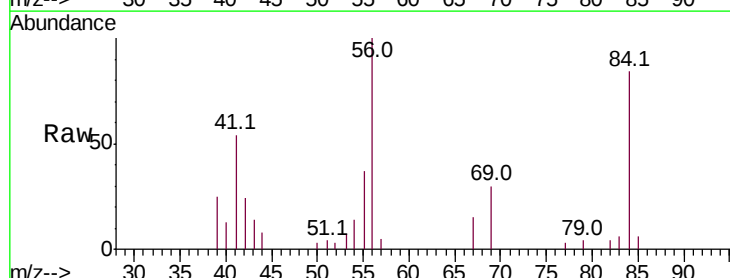
Manual Integrations
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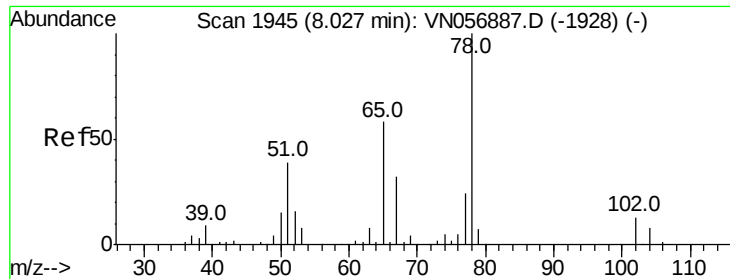
MMDadoda
7/25/2019 2:20:20 PM



#26
Cyclohexane
Concen: 2.515 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Tgt Ion	56	Resp	13511
Ion Ratio	100	Lower	Upper
56	100		
89	0.0	0.0	0.0
84	83.8	67.8	101.6





#27

1,2-Dichloroethane-d4

Concen: 30.670 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion: 65 Resp: 111343

Ion Ratio Lower Upper

65 100

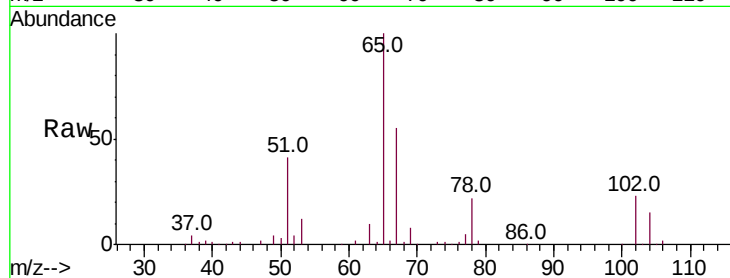
67 54.4 44.6 66.8

Manual Integrations

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MMDadoda

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Abundance Ion 65.00 (64.70 to 65.70): VN056887.D (-1928) (-)

Ion 67.00 (66.70 to 67.70): VN056887.D (-1928) (-)

8.03

50000

40000

30000

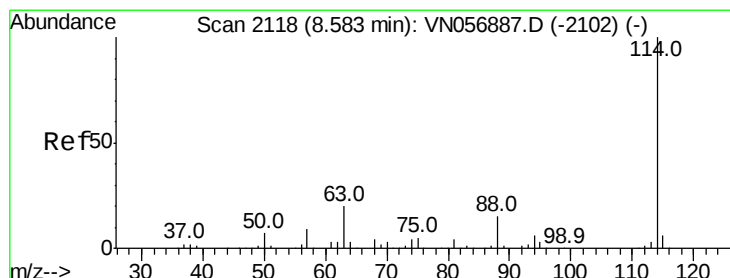
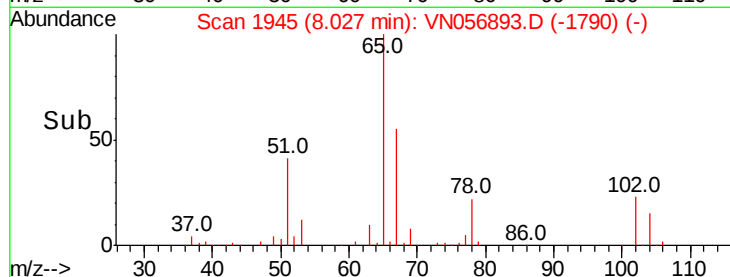
20000

10000

0

7.95 8.00 8.05 8.10

Time-->



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

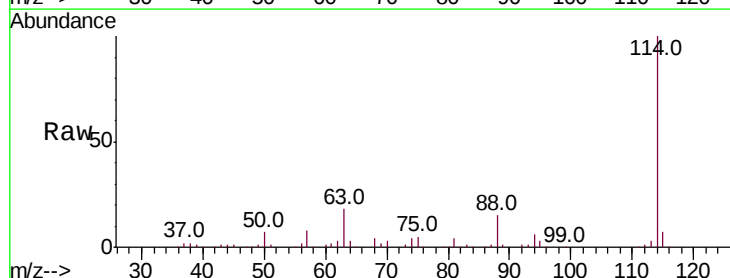
Tgt Ion: 114 Resp: 300230

Ion Ratio Lower Upper

114 100

63 19.5 15.8 23.6

88 15.5 12.5 18.7



Abundance Ion 114.00 (113.70 to 114.70): VN056887.D (-2102) (-)

Ion 63.00 (62.70 to 63.70): VN056887.D (-2102) (-)

Ion 88.00 (87.70 to 88.70): VN056887.D (-2102) (-)

8.59

200000

150000

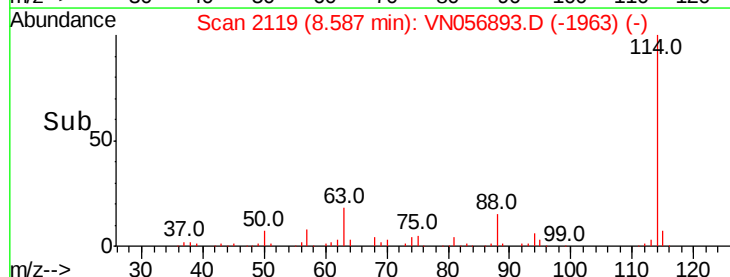
100000

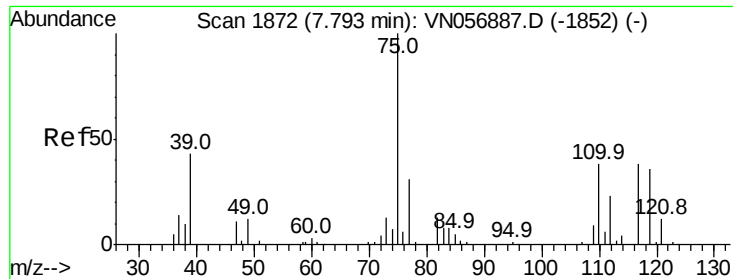
50000

0

8.50 8.55 8.60 8.65 8.70

Time-->





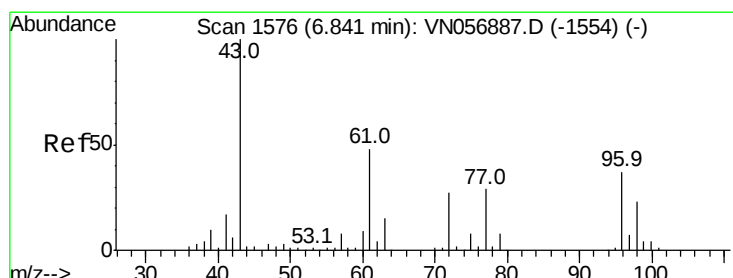
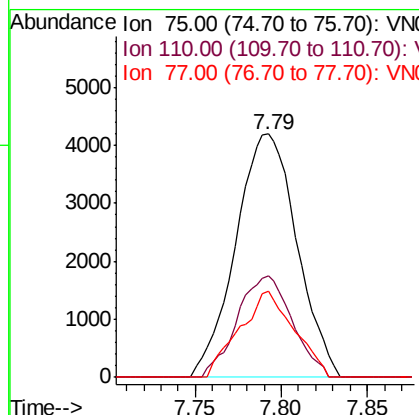
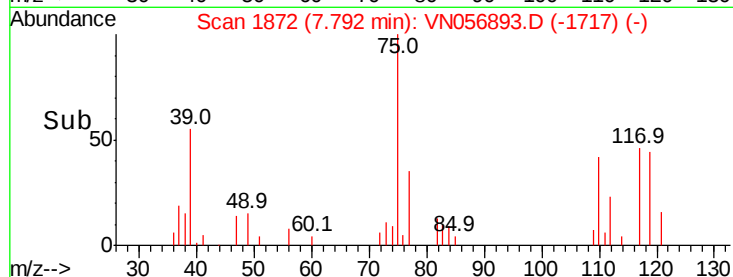
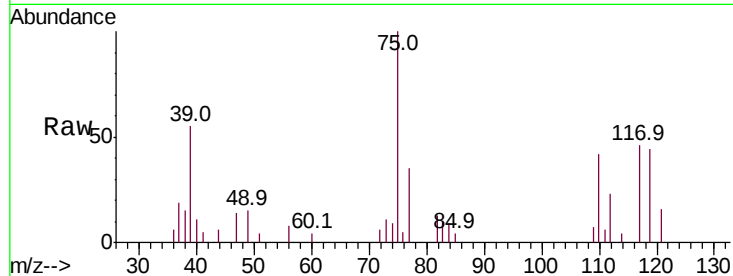
#29
 1,1-Dichloropropene
 Concen: 2.431 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. -0.00 min
 Lab File: VN056893.D
 Acq: 23 Jul 2019 23:06

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
75	100		
110	37.6	0.0	75.8
77	31.6	0.0	64.0

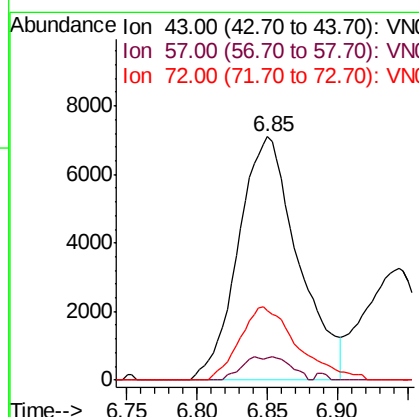
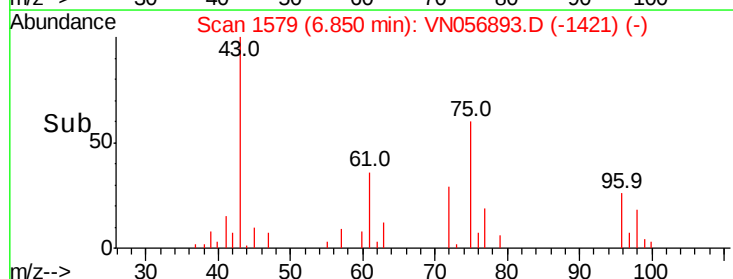
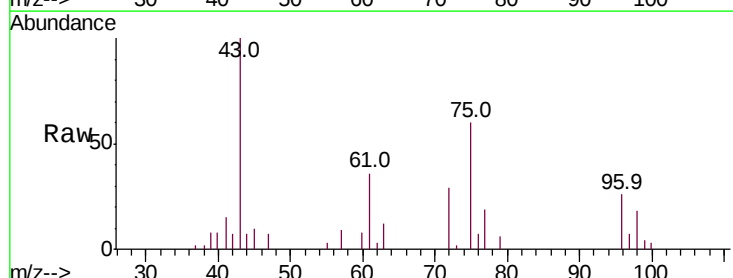
Manual Integrations
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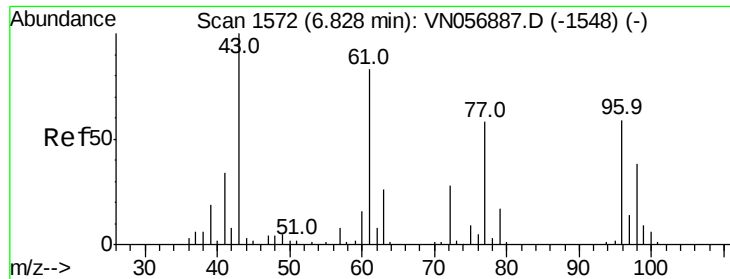
MMDadoda
 7/25/2019 2:20:20 PM



#30
 2-Butanone
 Concen: 12.286 ug/l
 RT: 6.85 min Scan# 1579
 Delta R.T. 0.01 min
 Lab File: VN056893.D
 Acq: 23 Jul 2019 23:06

Tgt Ion	Ratio	Lower	Upper
43	100		
57	3.7	6.5	9.7#
72	28.8	22.1	33.1





#31

2,2-Dichloropropane

Concen: 2.391 ug/l m

RT: 6.82 min Scan# 1570

Delta R.T. -0.01 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion: 77 Resp: 9453

Ion Ratio Lower Upper

77 100

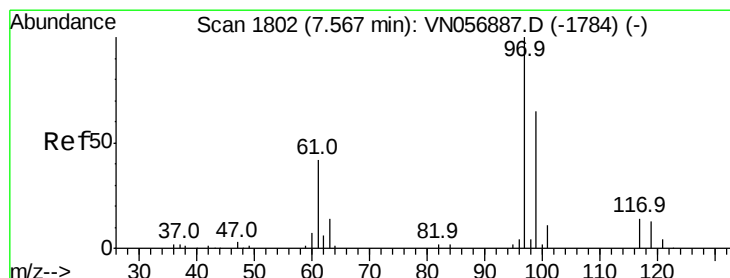
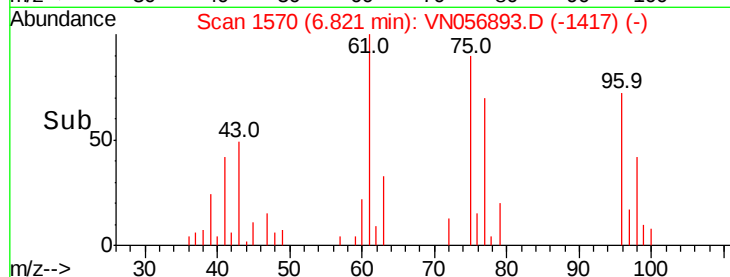
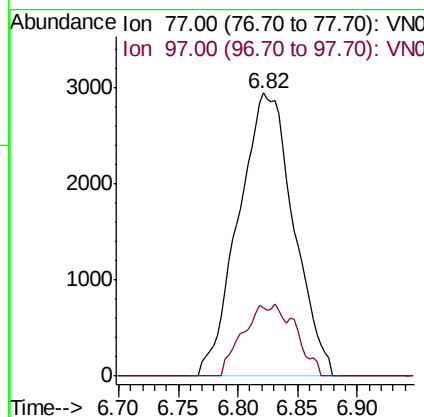
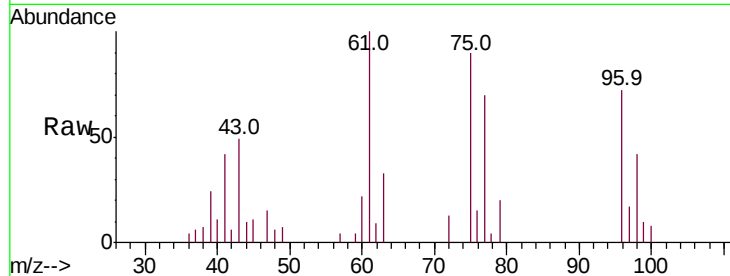
97 11.8 19.3 28.9#

Manual Integrations

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MMDadoda

7/25/2019 2:20:20 PM



#32

1,1,1-Trichloroethane

Concen: 2.497 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.01 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

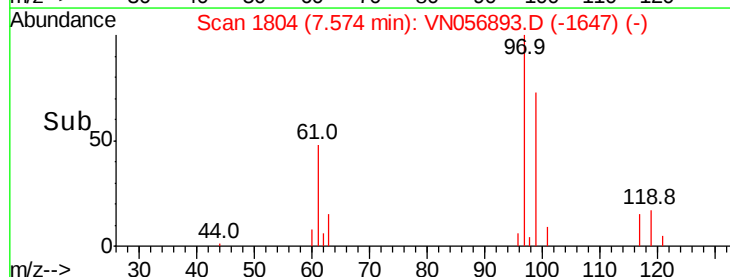
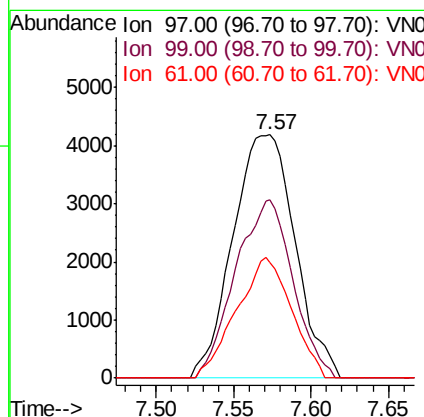
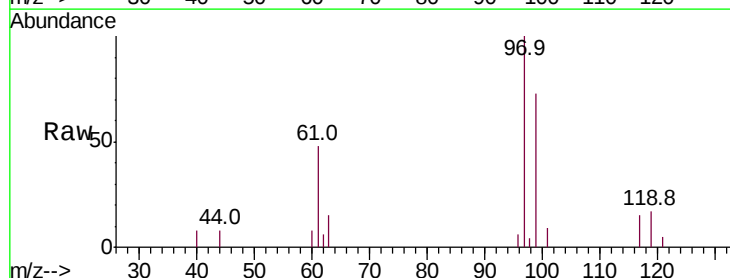
Tgt Ion: 97 Resp: 11689

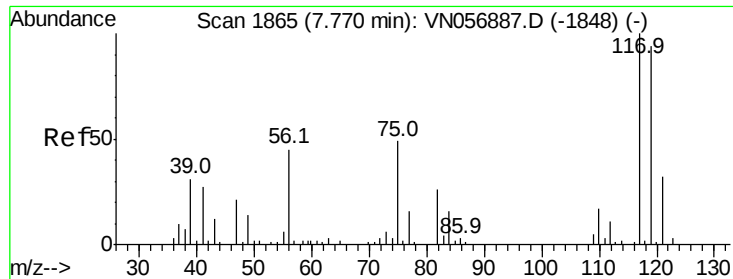
Ion Ratio Lower Upper

97 100

99 67.7 52.3 78.5

61 43.8 34.4 51.6





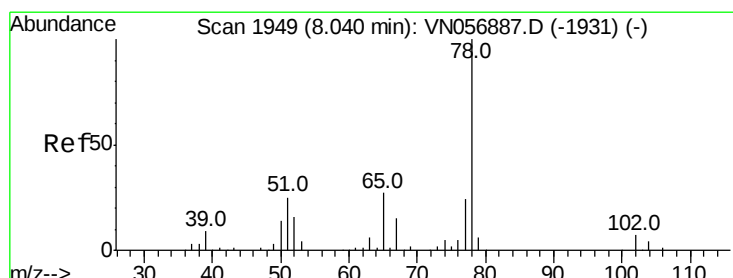
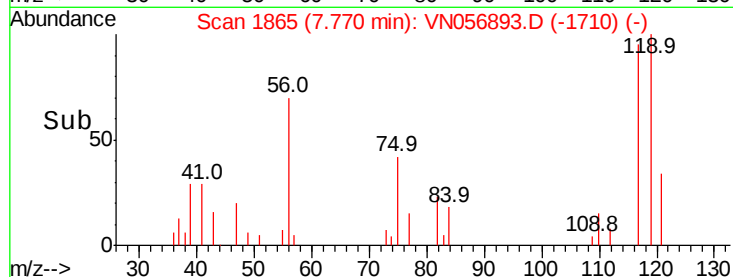
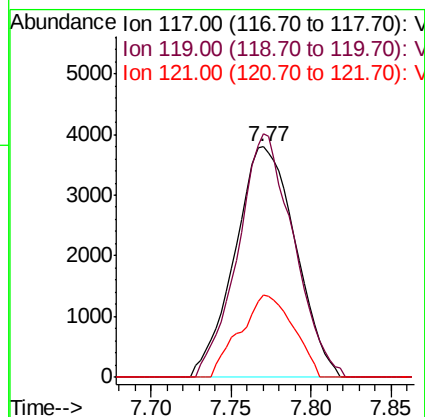
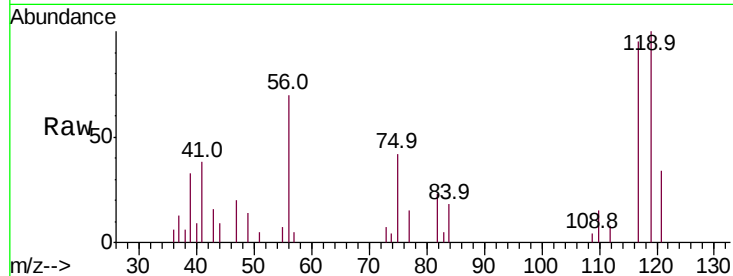
#33
Carbon Tetrachloride
Concen: 2.421 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion:117 Resp: 9894
Ion Ratio Lower Upper
117 100
119 105.8 75.1 112.7
121 35.6 25.8 38.8

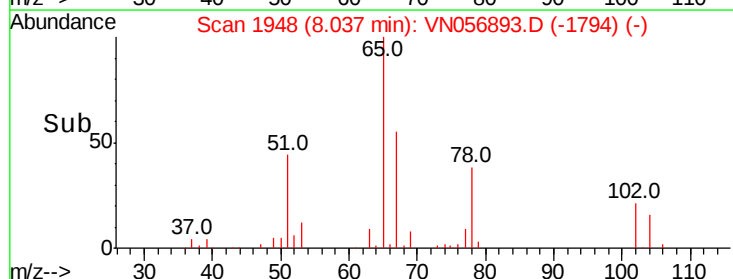
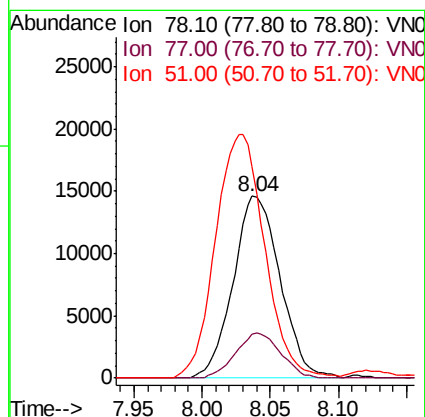
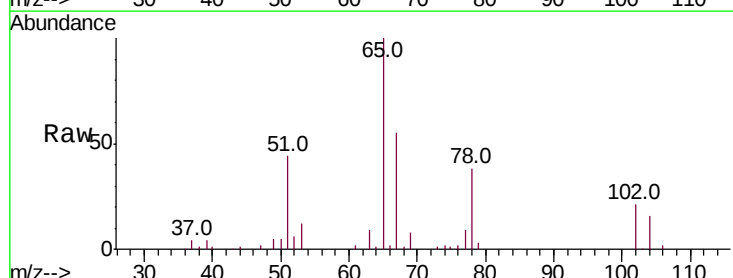
Manual Integrations
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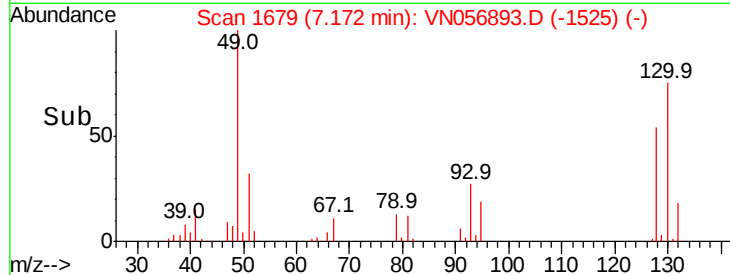
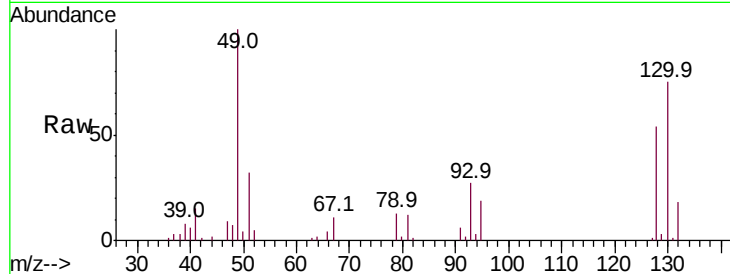
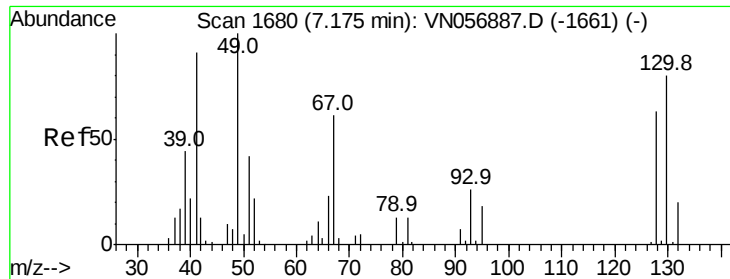
MMDadoda
7/25/2019 2:20:20 PM



#34
Benzene
Concen: 2.602 ug/l
RT: 8.04 min Scan# 1948
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Tgt Ion: 78 Resp: 34935
Ion Ratio Lower Upper
78 100
77 23.9 19.4 29.2
51 114.9 20.4 30.6#





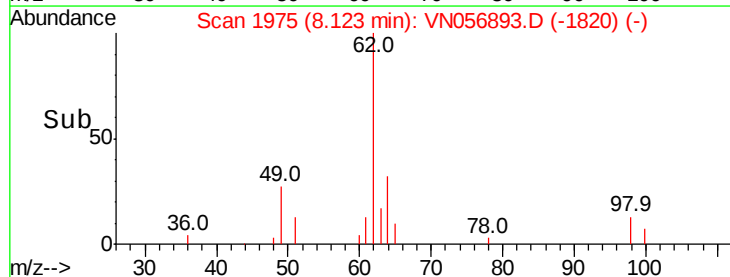
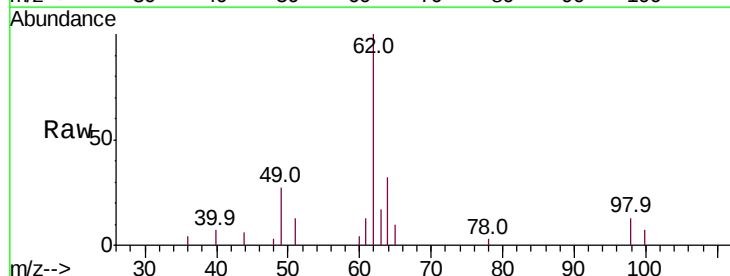
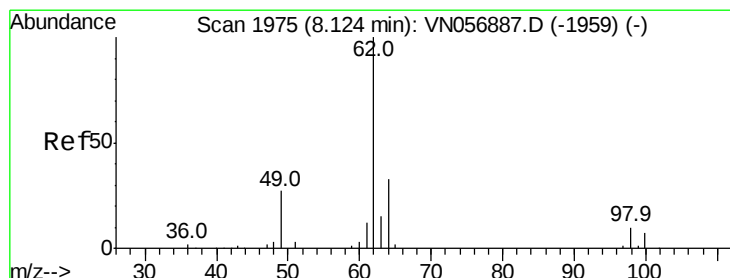
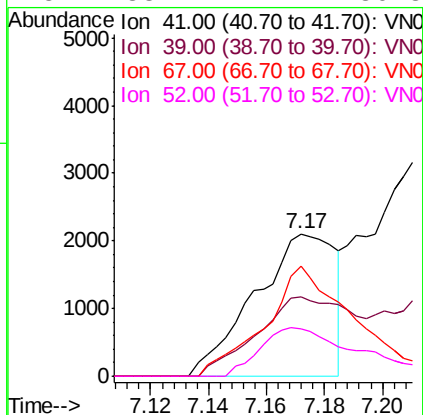
#35
Methacrylonitrile
Concen: 2.370 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Tot Ion: 41 Resp: 4052
Ion Ratio Lower Upper
41 100
39 55.8 24.4 73.2
67 77.5 33.4 100.1
52 33.2 12.1 36.3

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

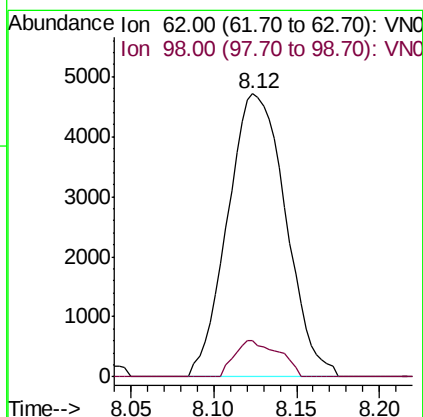
Manual Integrations
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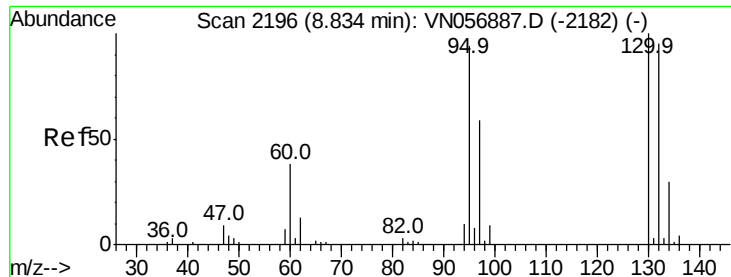
MMDadoda
7/25/2019 2:20:20 PM



#36
1,2-Dichloroethane
Concen: 2.749 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Tgt Ion: 62 Resp: 11473
Ion Ratio Lower Upper
62 100
98 9.8 7.7 11.5





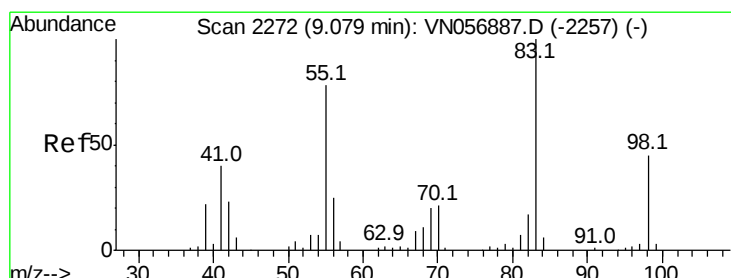
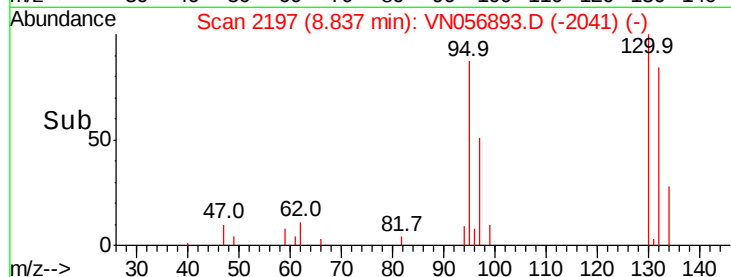
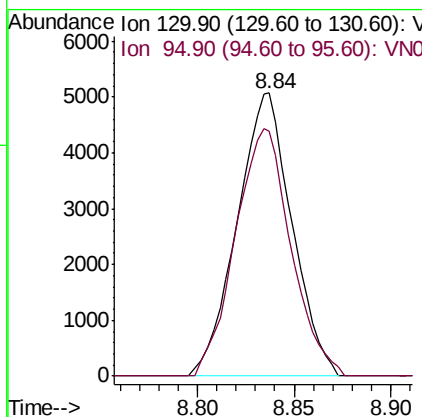
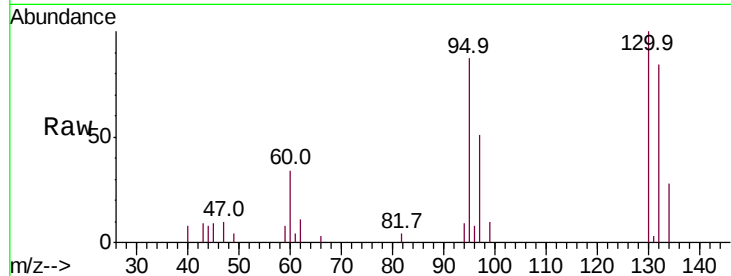
#37
 Trichloroethene
 Concen: 2.773 ug/l
 RT: 8.84 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VN056893.D
 Acq: 23 Jul 2019 23:06

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

Tot Ion:130 Resp: 9979
 Ion Ratio Lower Upper
 130 100
 95 86.6 74.9 112.3

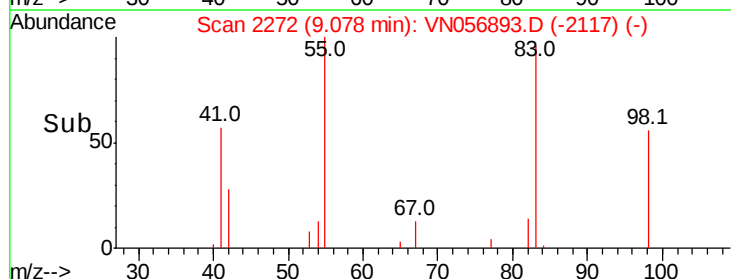
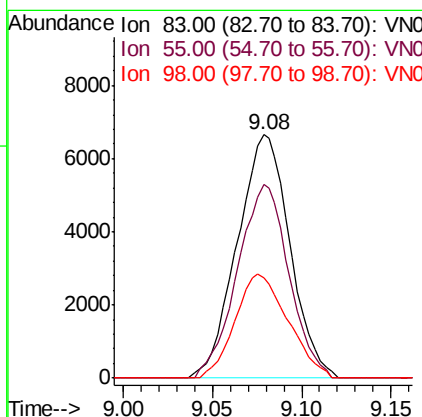
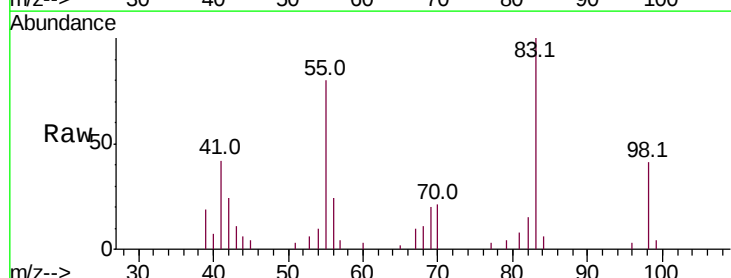
Manual Integrations
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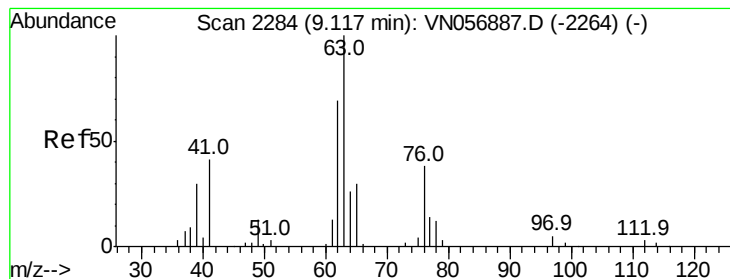
MMDadoda
 7/25/2019 2:20:20 PM



#38
 Methylcyclohexane
 Concen: 2.532 ug/l
 RT: 9.08 min Scan# 2272
 Delta R.T. -0.00 min
 Lab File: VN056893.D
 Acq: 23 Jul 2019 23:06

Tgt Ion: 83 Resp: 13722
 Ion Ratio Lower Upper
 83 100
 55 77.6 38.4 115.1
 98 42.7 22.7 68.0





#39

1,2-Dichloropropane

Concen: 2.742 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion: 63 Resp: 9825

Ion Ratio Lower Upper

63 100

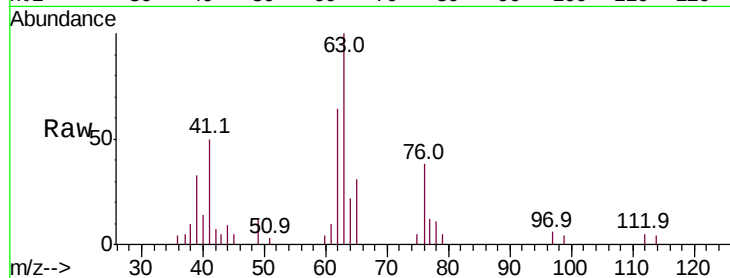
65 30.7 24.6 36.8

Manual Integrations

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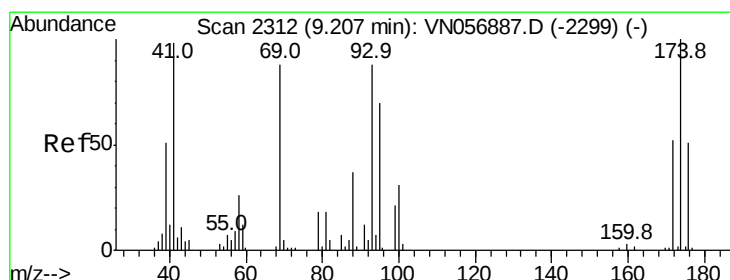
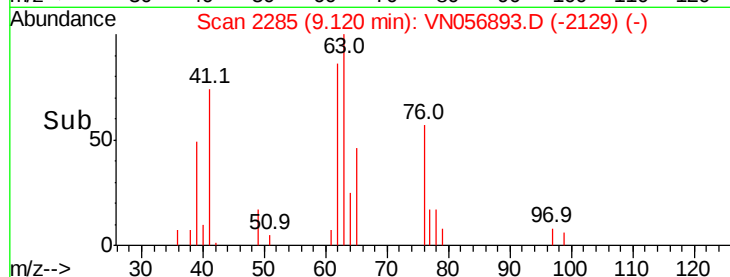
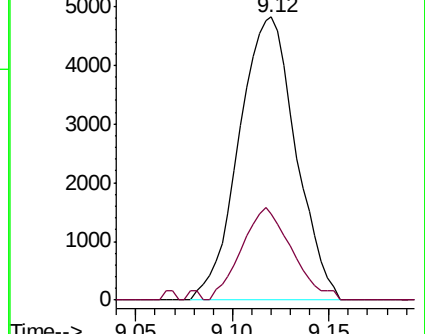
MMDadoda

7/25/2019 2:20:20 PM



Abundance Ion 63.00 (62.70 to 63.70): VN0

Ion 65.00 (64.70 to 65.70): VN0



#40

Dibromomethane

Concen: 2.698 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. -0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

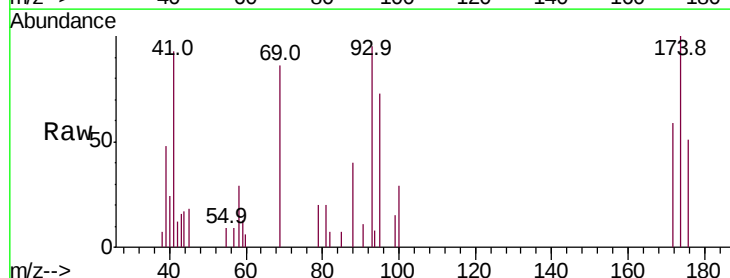
Tgt Ion: 93 Resp: 5931

Ion Ratio Lower Upper

93 100

95 81.8 0.0 165.8

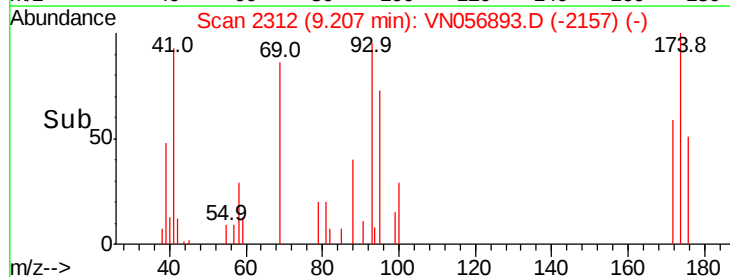
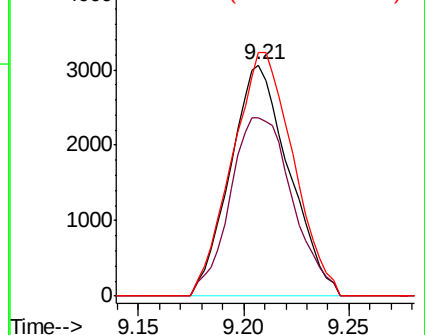
174 109.3 0.0 232.4

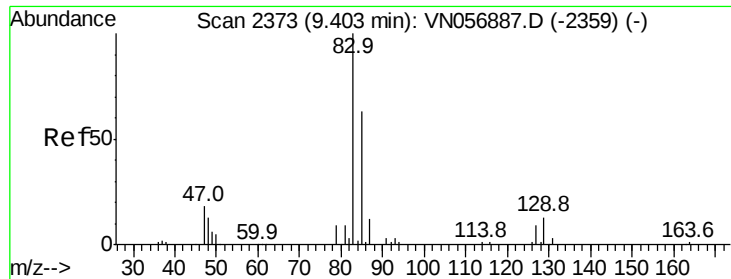


Abundance Ion 93.00 (92.70 to 93.70): VN0

Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): V





#41

Bromodichloromethane

Concen: 2.446 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

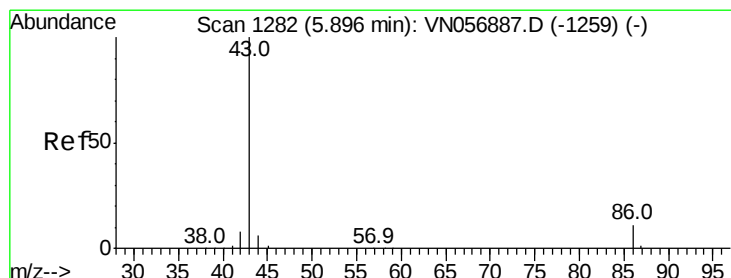
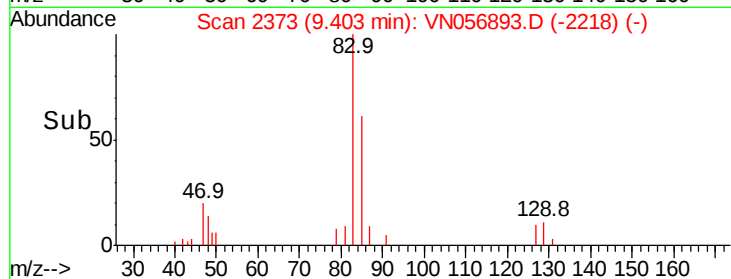
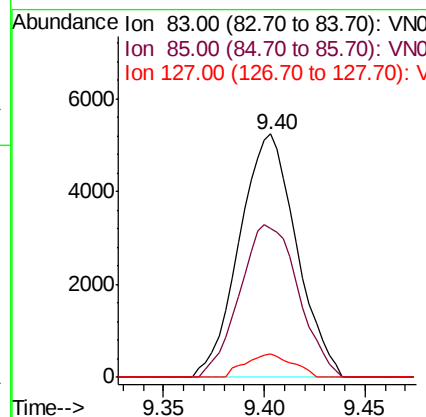
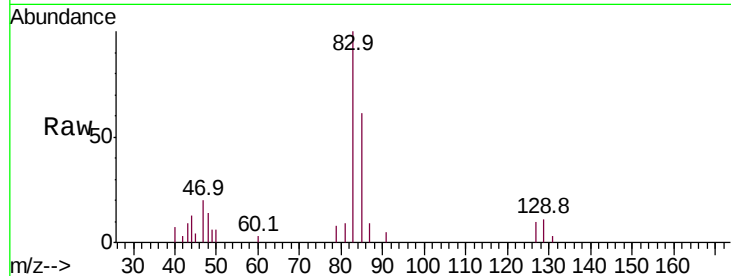
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion:	83	Resp:	10334
Ion Ratio	Lower	Upper	
83	100		
85	61.1	50.6	75.8
127	9.6	7.2	10.8

Manual Integrations
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7/25/2019 2:20:20 PM



#42

Vinyl Acetate

Concen: 11.278 ug/l

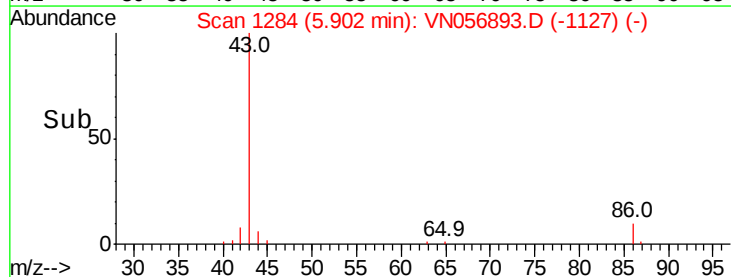
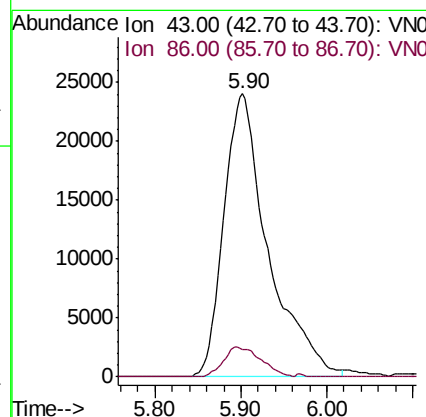
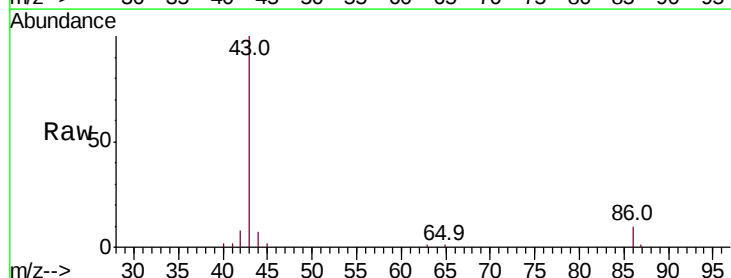
RT: 5.90 min Scan# 1284

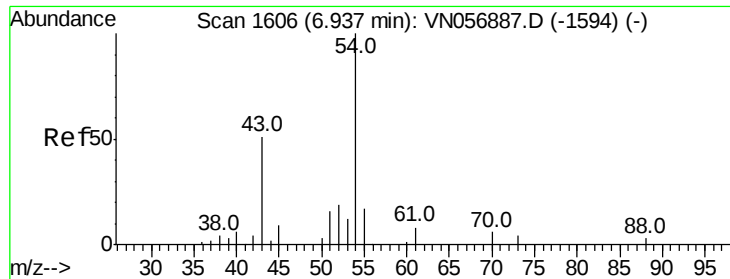
Delta R.T. 0.01 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Tgt Ion:	43	Resp:	85969
Ion Ratio	Lower	Upper	
43	100		
86	4.5	7.4	11.2#





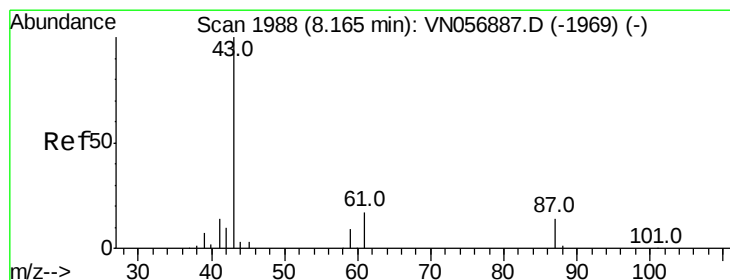
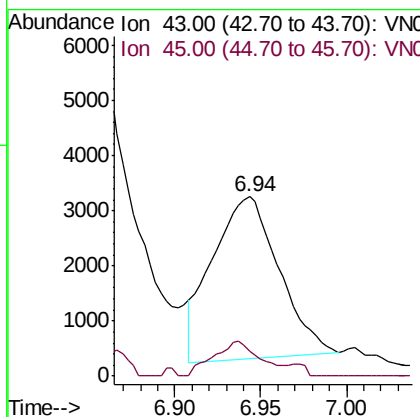
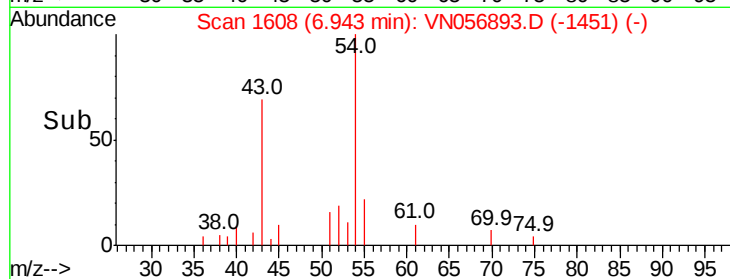
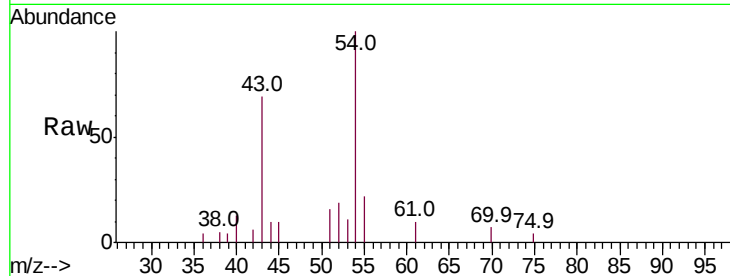
#43
Ethyl Acetate
Concen: 2.256 ug/l
RT: 6.94 min Scan# 1608
Delta R.T. 0.01 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion: 43 Resp: 7916
Ion Ratio Lower Upper
43 100
45 15.2 10.2 15.2#

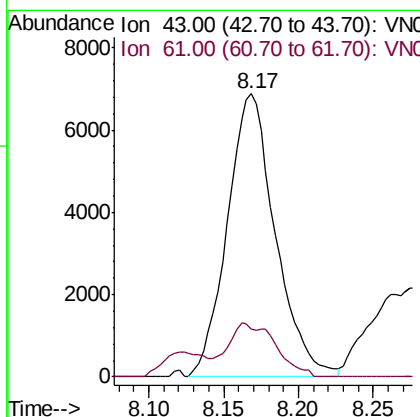
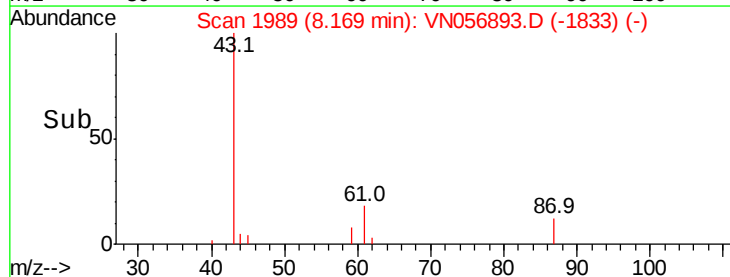
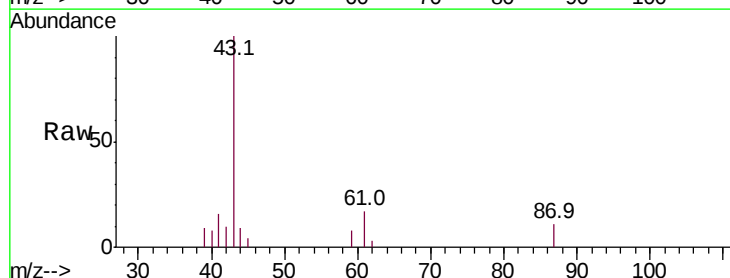
Manual Integrations
APPROVED

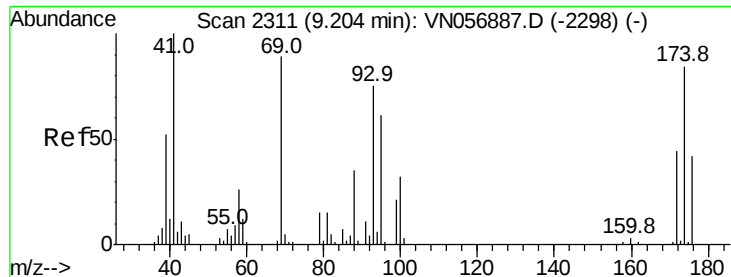
MMDadoda
7/25/2019 2:20:20 PM



#44
Isopropyl Acetate
Concen: 2.630 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Tgt Ion: 43 Resp: 15386
Ion Ratio Lower Upper
43 100
61 6.0 23.0 34.4#





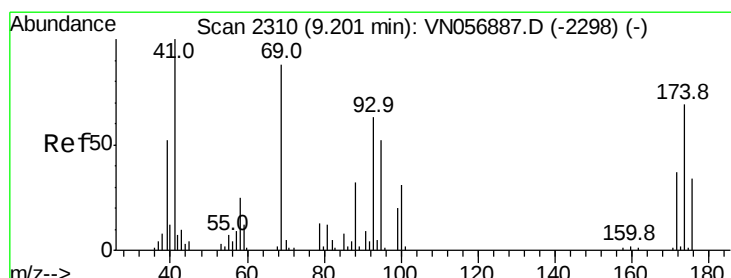
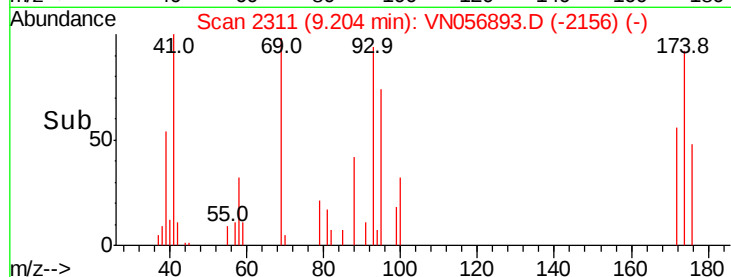
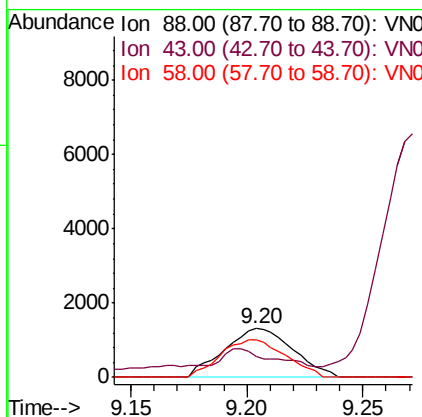
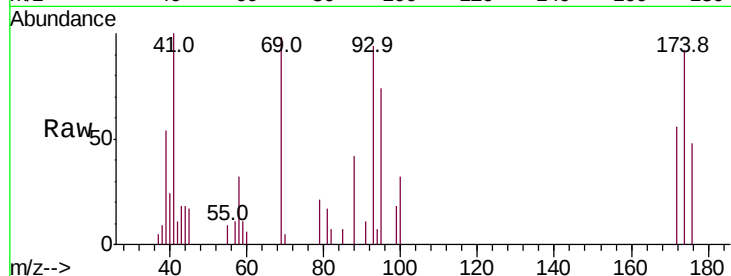
#45
 1,4-Dioxane
 Concen: 48.452 ug/l
 RT: 9.20 min Scan# 2311
 Delta R.T. -0.00 min
 Lab File: VN056893.D
 Acq: 23 Jul 2019 23:06

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
88	100		
43	25.0	23.4	35.0
58	73.1	58.5	87.7

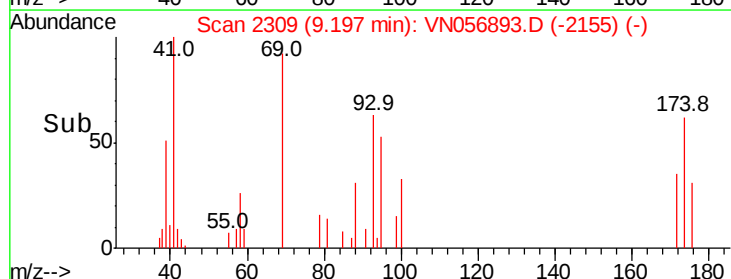
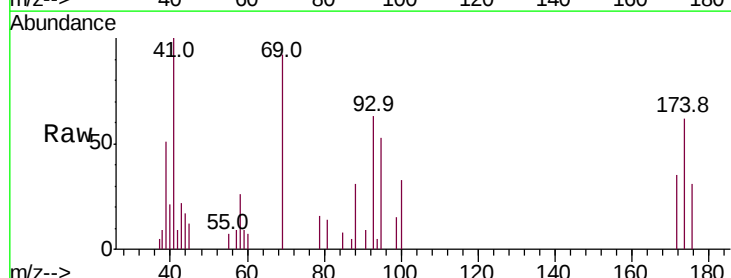
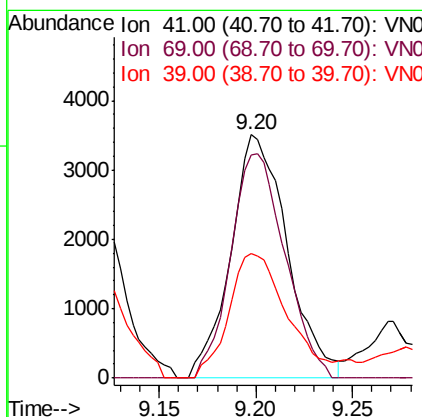
Manual Integrations
 APPROVED

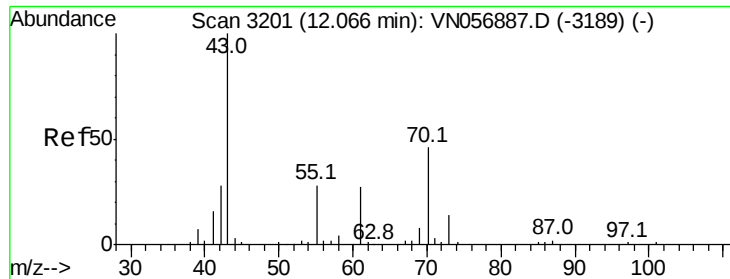
MMDadoda
 7/25/2019 2:20:20 PM



#46
 Methyl methacrylate
 Concen: 2.438 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. -0.00 min
 Lab File: VN056893.D
 Acq: 23 Jul 2019 23:06

Tgt Ion	Ratio	Lower	Upper
41	100		
69	91.7	44.0	132.0
39	51.0	25.8	77.4





#47

n-amvl Acetate

Concen: 2.015 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.01 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion: 43 Resp: 9433

Ion Ratio Lower Upper

43 100

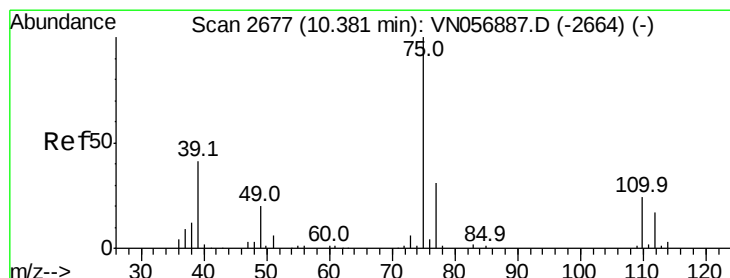
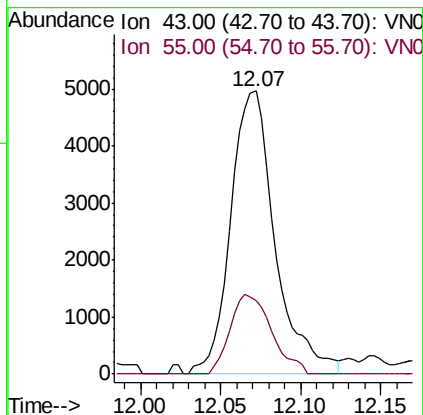
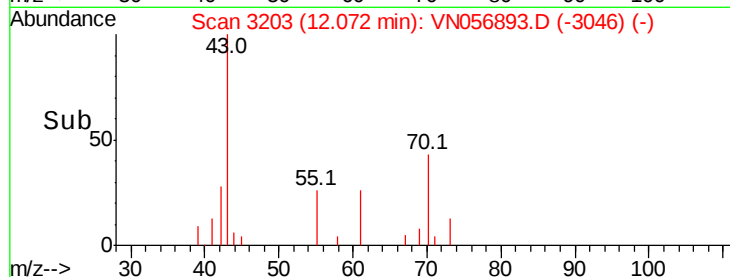
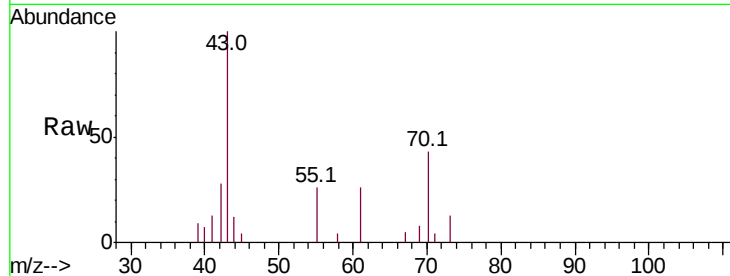
55 26.2 21.3 31.9

Manual Integrations

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MMDadoda

7/25/2019 2:20:20 PM



#48

t-1,3-Dichloropropene

Concen: 2.220 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN056893.D

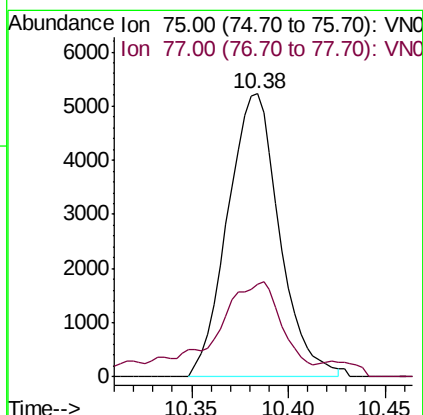
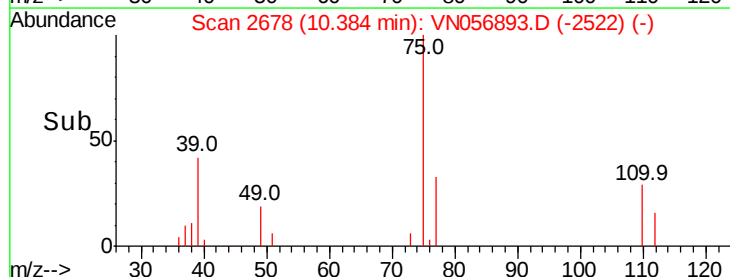
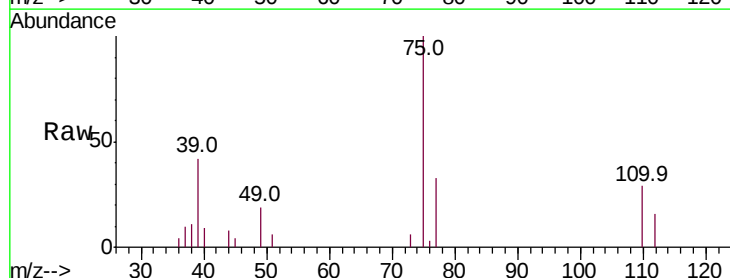
Acq: 23 Jul 2019 23:06

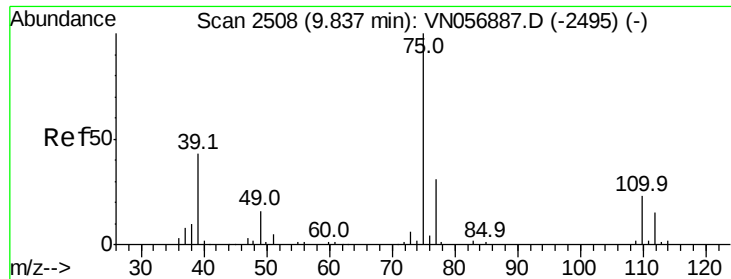
Tgt Ion: 75 Resp: 9757

Ion Ratio Lower Upper

75 100

77 27.5 25.4 38.0





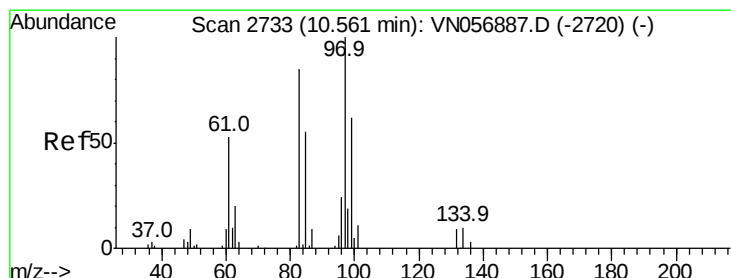
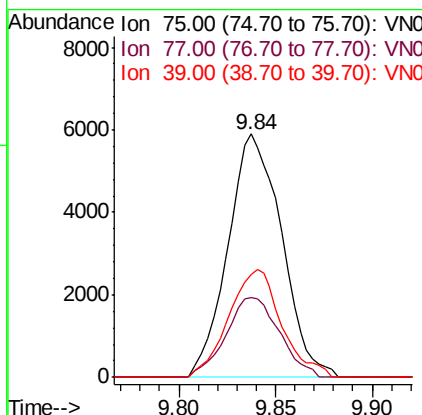
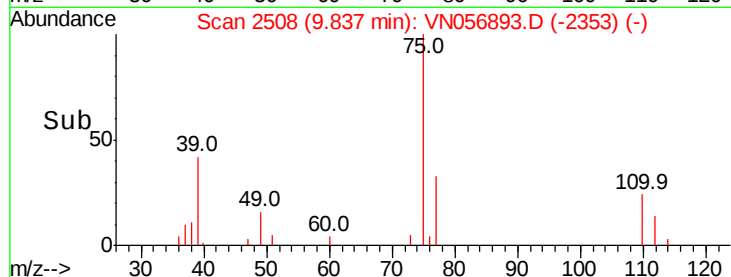
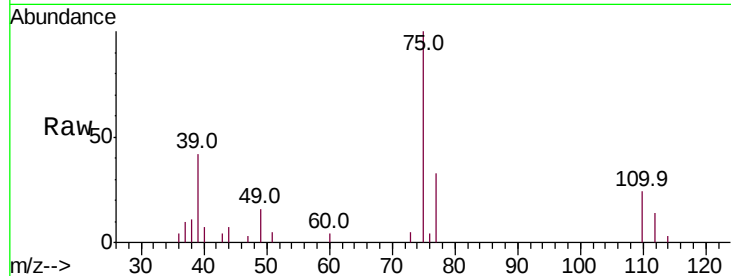
#49
 cis-1,3-Dichloropropene
 Concen: 2.220 ug/l
 RT: 9.84 min Scan# 2508
 Delta R.T. -0.00 min
 Lab File: VN056893.D
 Acq: 23 Jul 2019 23:06

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
75	100		
77	33.0	24.4	36.6
39	42.4	34.2	51.4

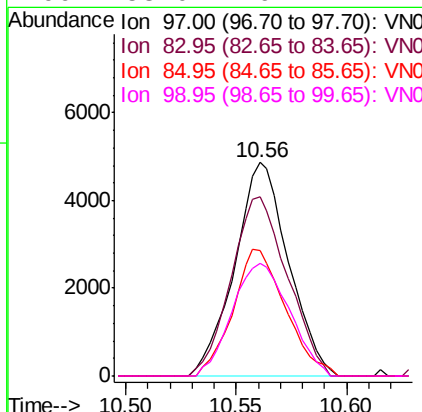
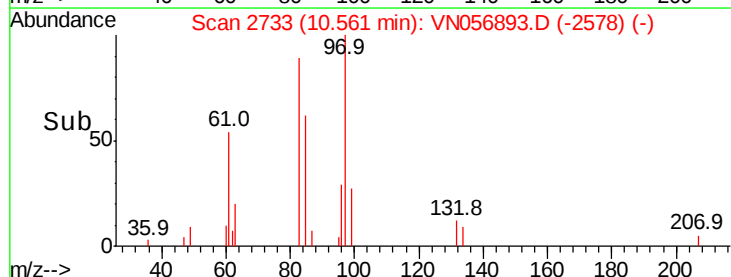
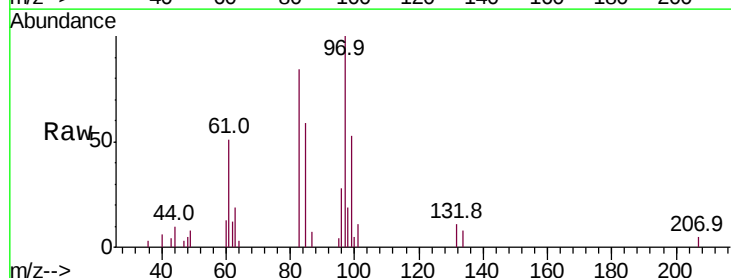
Manual Integrations
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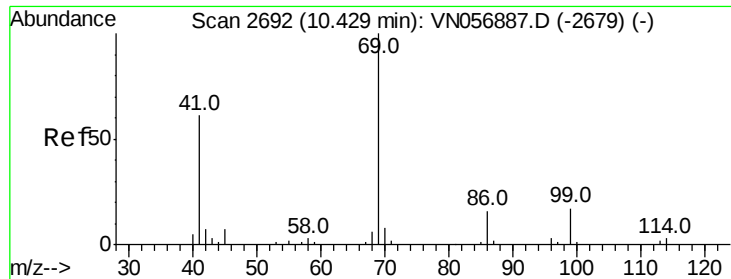
MMDadoda
 7/25/2019 2:20:20 PM



#50
 1,1,2-Trichloroethane
 Concen: 2.613 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN056893.D
 Acq: 23 Jul 2019 23:06

Tgt Ion	Ratio	Lower	Upper
97	100		
83	84.2	68.4	102.6
85	58.6	44.3	66.5
99	53.0	49.4	74.2





#51

Ethyl methacrylate

Concen: 2.191 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. -0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

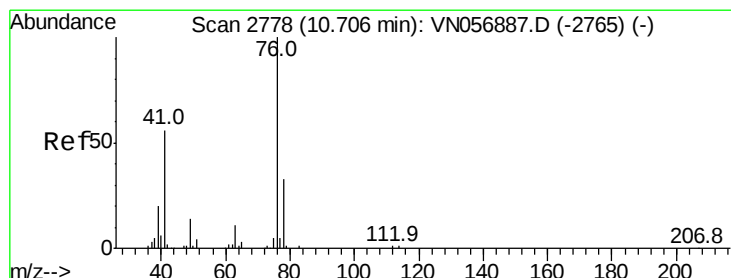
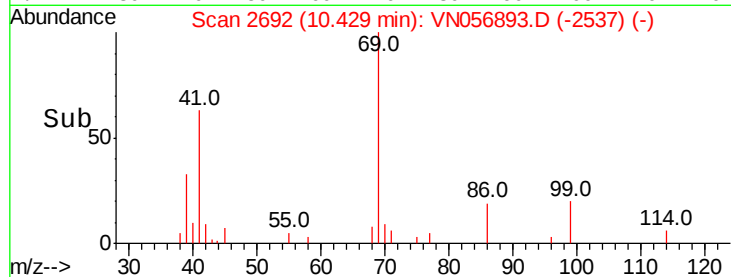
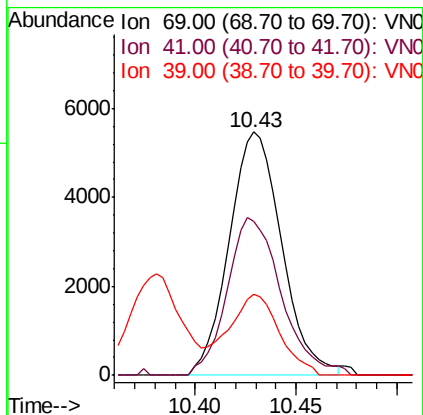
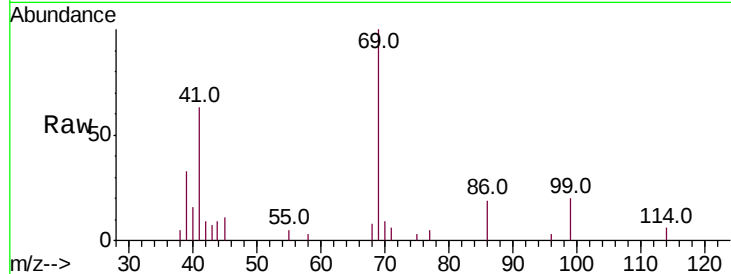
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion:	69	Resp:	10003
Ion	Ratio	Lower	Upper
69	100		
41	63.4	30.4	91.3
39	33.4	14.2	42.6

Manual Integrations
APPROVED

MMDadoda
7/25/2019 2:20:20 PM



#52

1,3-Dichloropropane

Concen: 2.567 ug/l

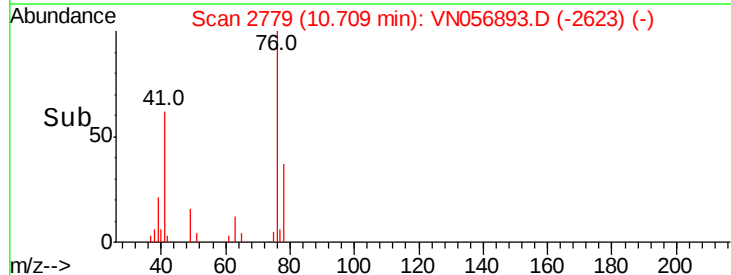
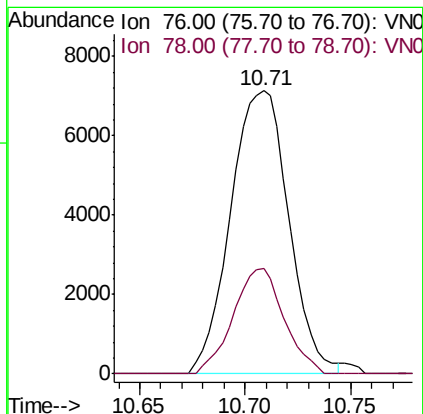
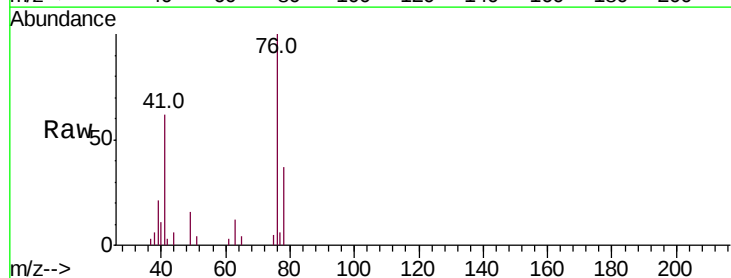
RT: 10.71 min Scan# 2779

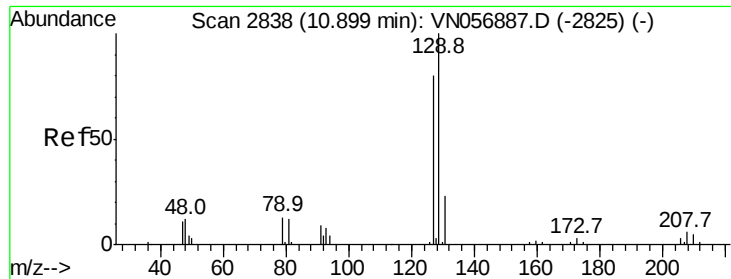
Delta R.T. 0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Tgt Ion:	76	Resp:	13672
Ion	Ratio	Lower	Upper
76	100		
78	32.5	0.0	64.2





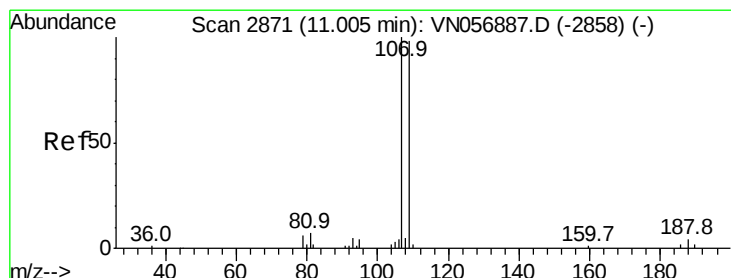
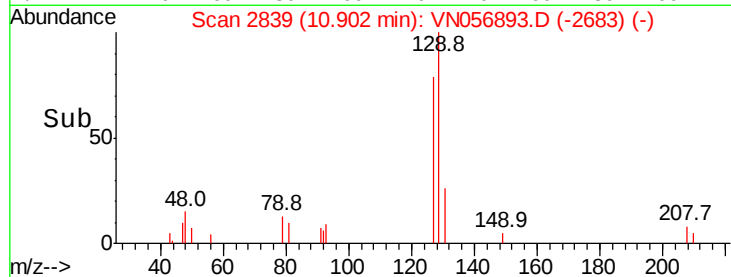
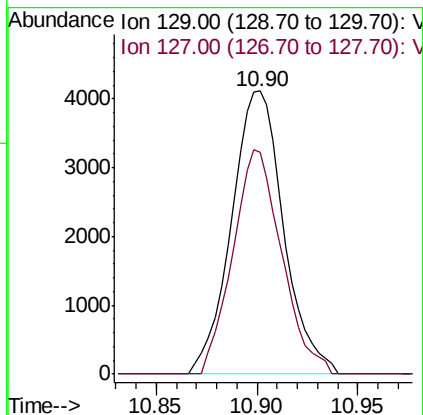
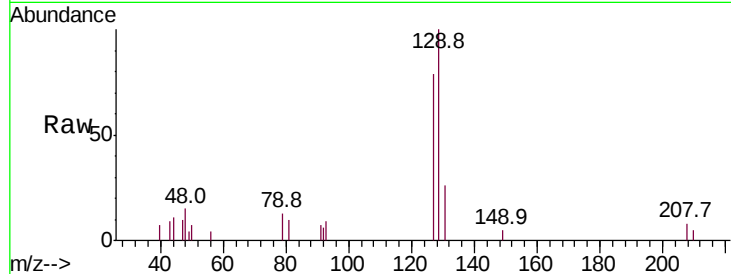
#53
Dibromochloromethane
Concen: 2.271 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion:129 Resp: 7449
Ion Ratio Lower Upper
129 100
127 74.3 38.8 116.4

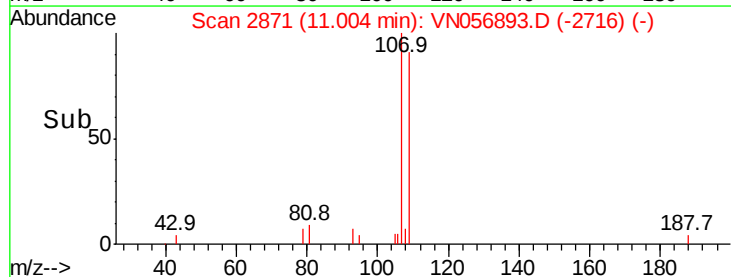
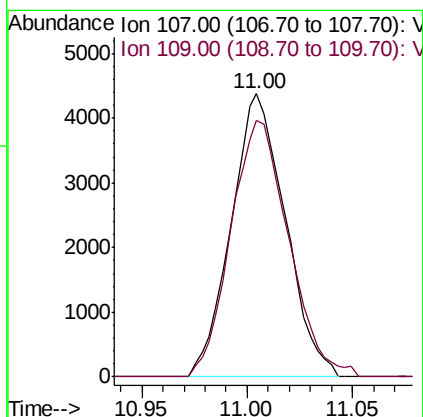
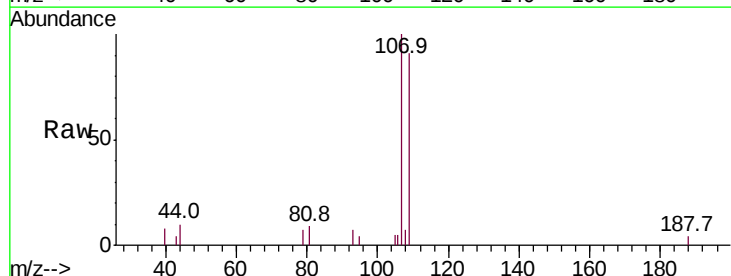
Manual Integrations
APPROVED

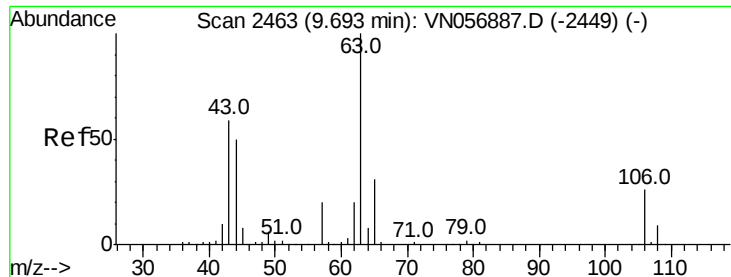
MMDadoda
7/25/2019 2:20:20 PM



#54
1,2-Dibromoethane
Concen: 2.422 ug/l
RT: 11.00 min Scan# 2871
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Tgt Ion:107 Resp: 7798
Ion Ratio Lower Upper
107 100
109 96.4 76.2 114.2





#55

2-Chloroethyl vinyl ether

Concen: 10.107 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. -0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

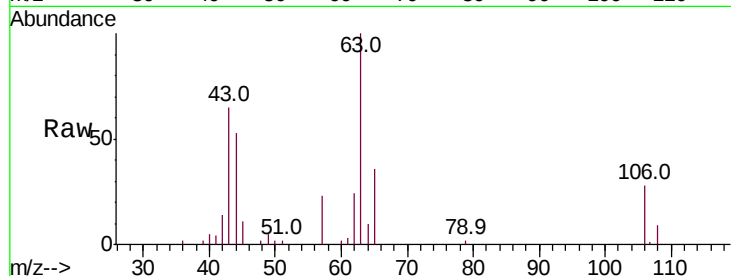
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion:	63	Resp:	19983
Ion	Ratio	Lower	Upper
63	100		
65	32.8	25.1	37.7
106	28.0	21.5	32.3

Manual Integrations
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MMDadoda
7/25/2019 2:20:20 PM

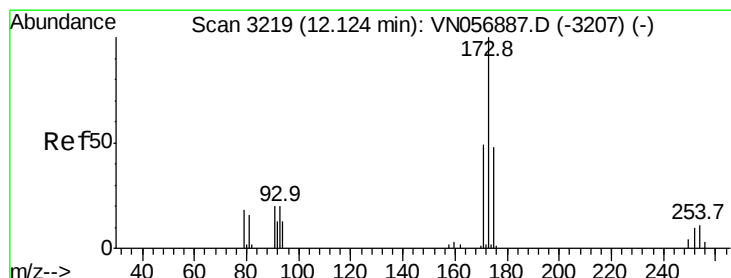
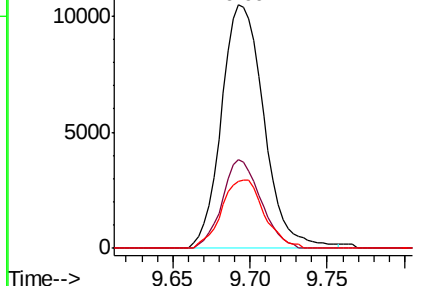
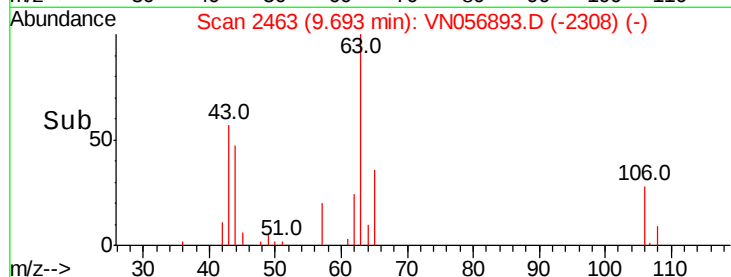


Abundance Ion 63.00 (62.70 to 63.70): VN056887.D (-2449) (-)

Ion 65.00 (64.70 to 65.70): VN056887.D (-2449) (-)

Ion 106.00 (105.70 to 106.70): VN056887.D (-2449) (-)

Time-->



#56

Bromoform

Concen: 1.893 ug/l

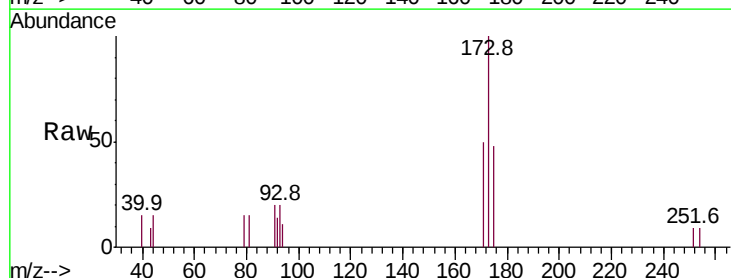
RT: 12.12 min Scan# 3219

Delta R.T. -0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Tgt Ion:	173	Resp:	4297
Ion	Ratio	Lower	Upper
173	100		
175	48.8	38.8	58.2
254	3.3	8.1	12.1#

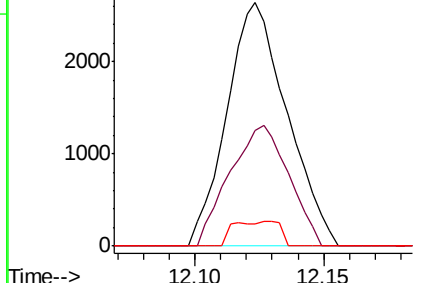
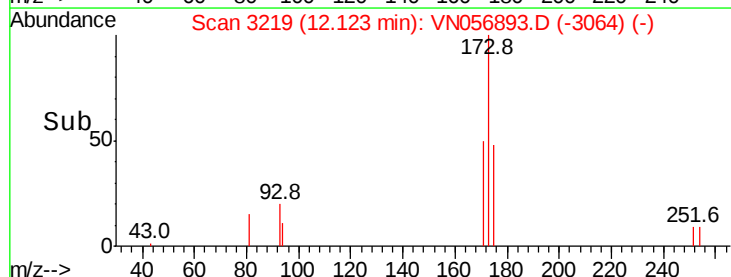


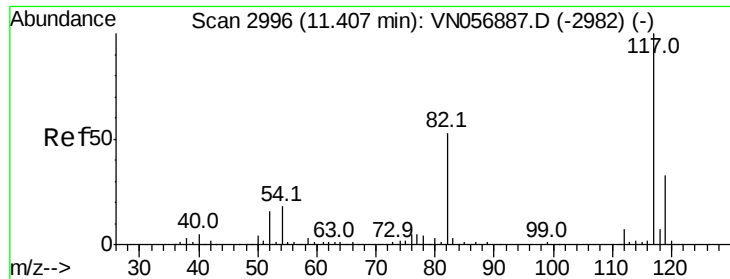
Abundance Ion 173.00 (172.70 to 173.70): VN056887.D (-3207) (-)

Ion 175.00 (174.70 to 175.70): VN056887.D (-3207) (-)

Ion 254.00 (253.70 to 254.70): VN056887.D (-3207) (-)

Time-->





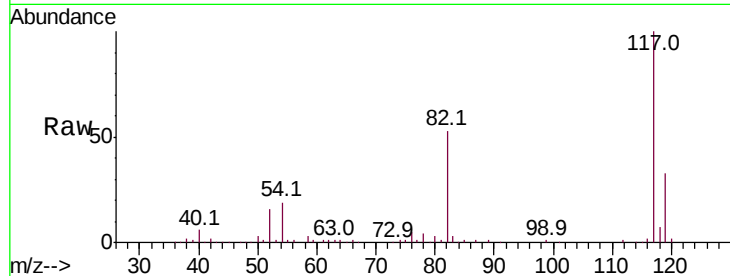
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion	Ratio	Resp	Lower	Upper
117	100	236332		
82	53.4	43.0	64.4	
119	32.0	26.2	39.2	

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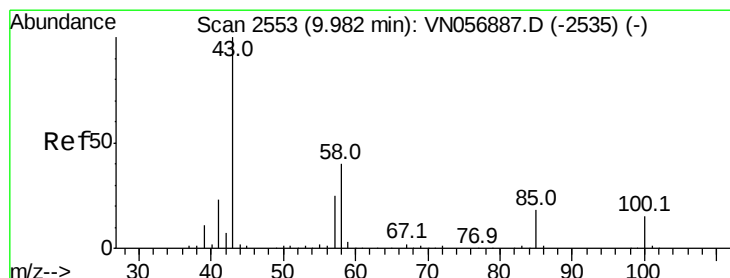
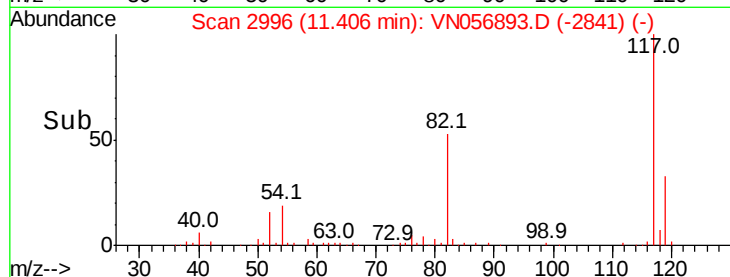
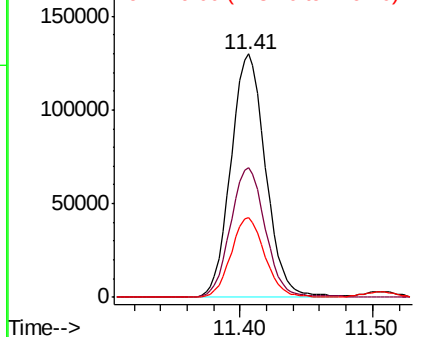


Abundance

Ion 117.00 (116.70 to 117.70): V

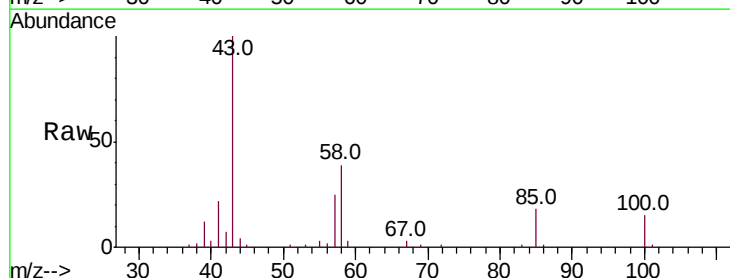
Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V



#58
4-Methyl-2-Pentanone
Concen: 14.183 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	44980		
58	37.7	31.7	47.5	
85	16.6	14.5	21.7	

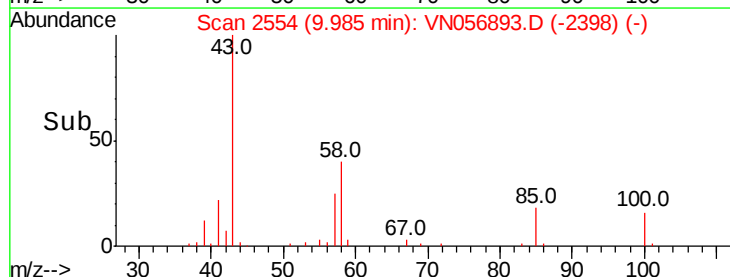
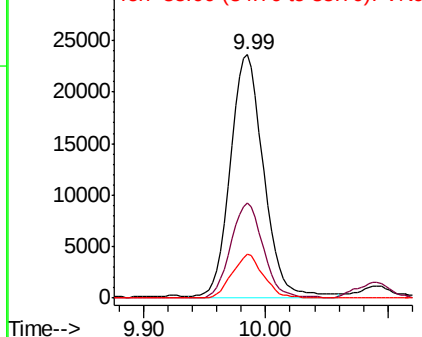


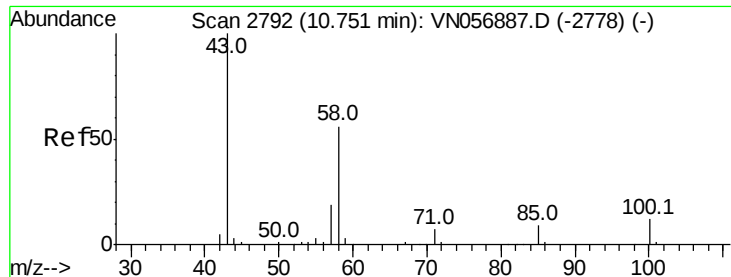
Abundance

Ion 43.00 (42.70 to 43.70): V

Ion 58.00 (57.70 to 58.70): V

Ion 85.00 (84.70 to 85.70): V





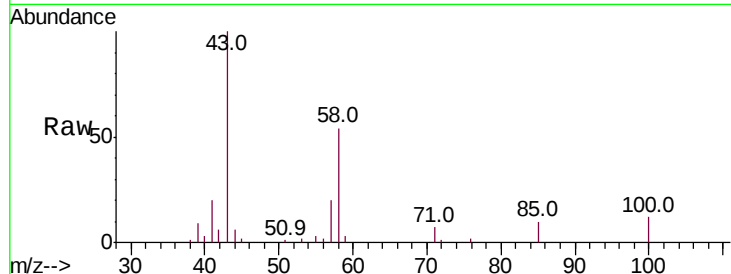
#59
2-Hexanone
Concen: 12.892 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
43	100		
58	51.3	45.0	67.4
57	17.5	15.4	23.0

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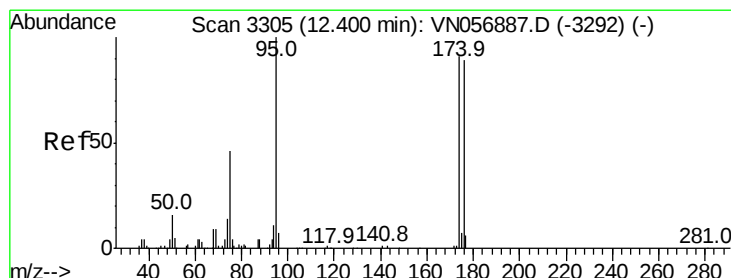
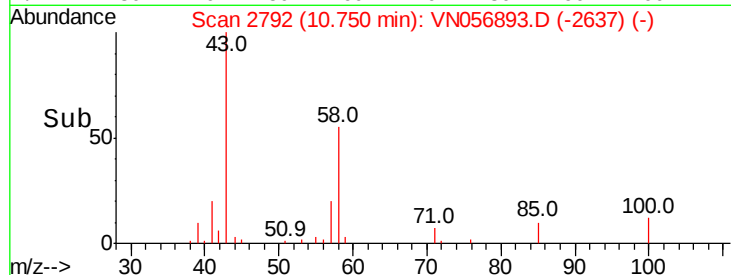
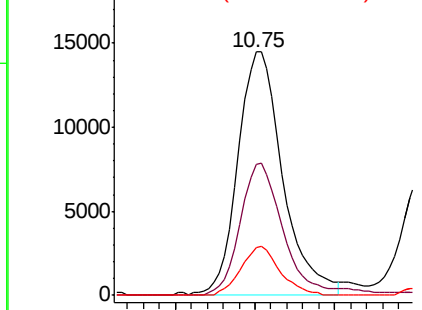


Abundance

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



#60
4-Bromofluorobenzene
Concen: 25.718 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

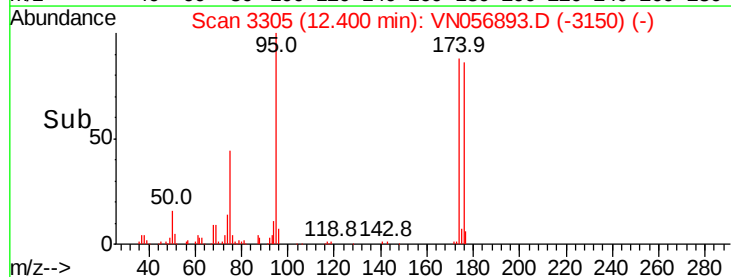
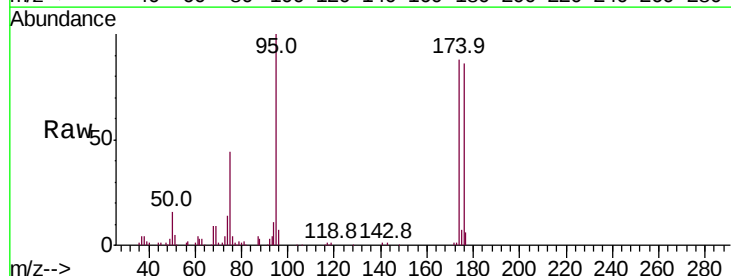
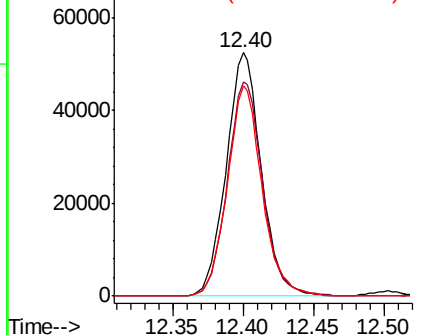
Tgt Ion	Ratio	Lower	Upper
95	100		
174	88.7	71.9	107.9
176	85.5	69.8	104.8

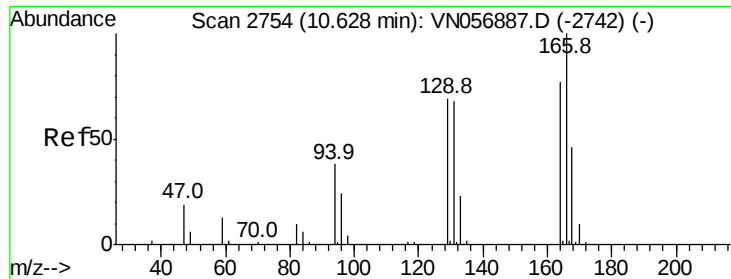
Abundance

Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





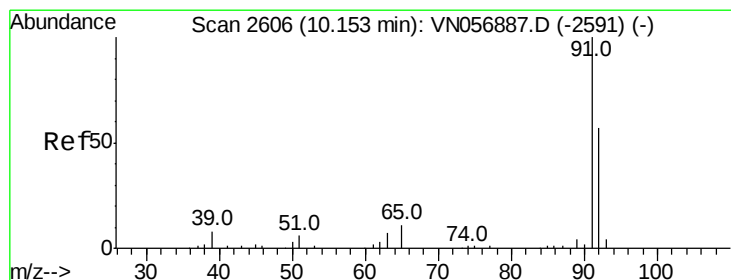
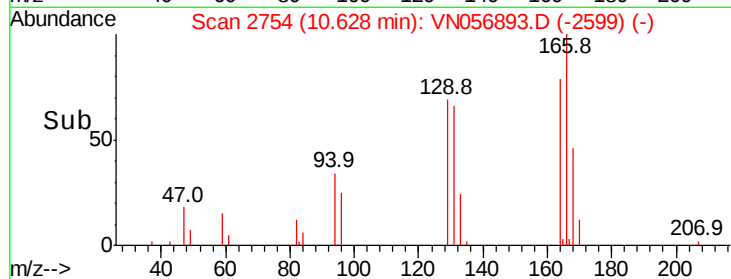
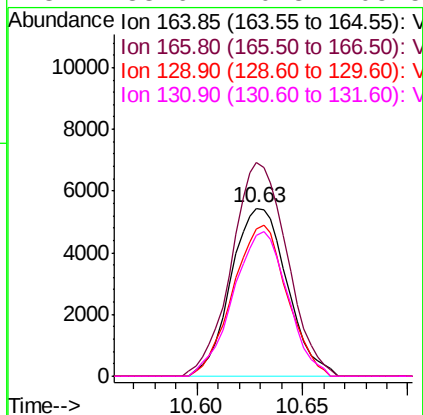
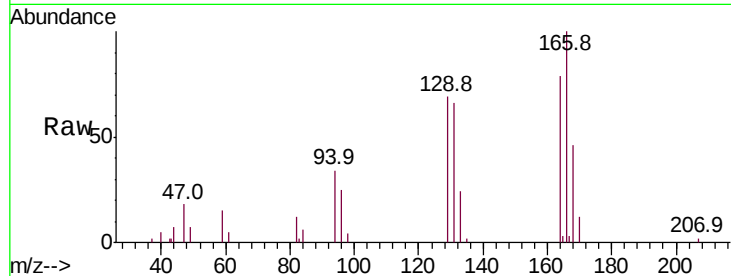
#61
Tetrachloroethene
Concen: 3.040 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion:164 Resp: 10070
Ion Ratio Lower Upper
164 100
166 127.1 103.9 155.9
129 87.5 72.4 108.6
131 83.6 70.3 105.5

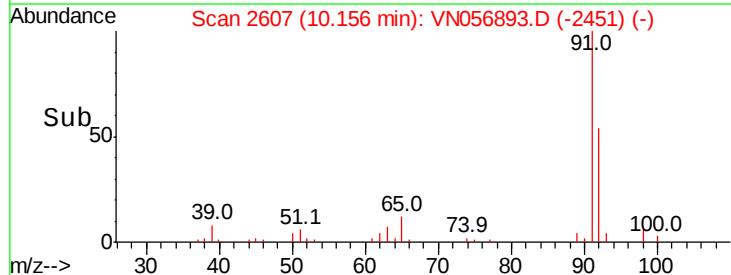
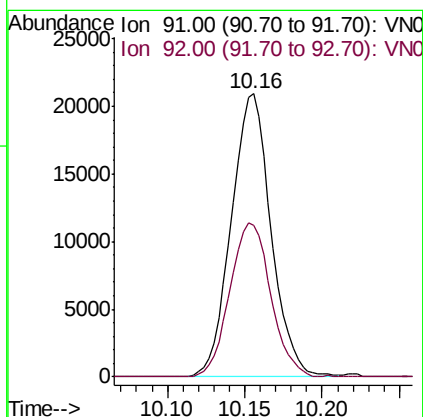
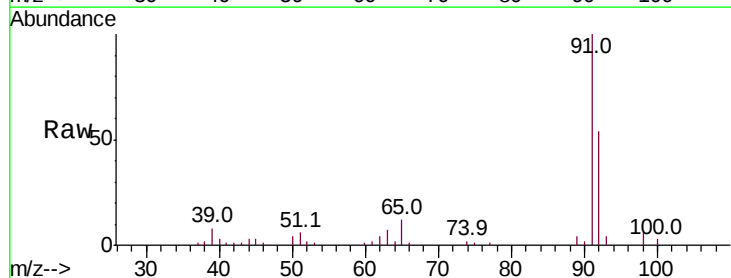
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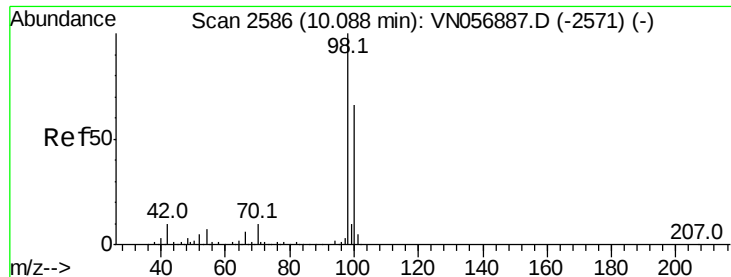
MMDadoda
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#62
Toluene
Concen: 2.902 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Tgt Ion: 91 Resp: 37298
Ion Ratio Lower Upper
91 100
92 56.0 46.1 69.1





#63

Toluene-d8

Concen: 32.328 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion: 98 Resp: 360907

Ion Ratio Lower Upper

98 100

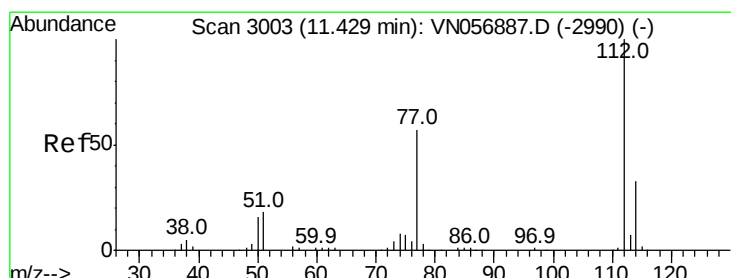
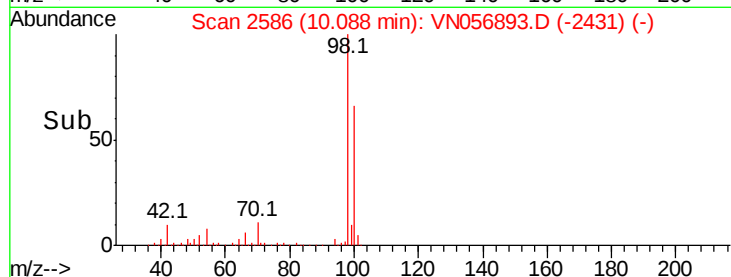
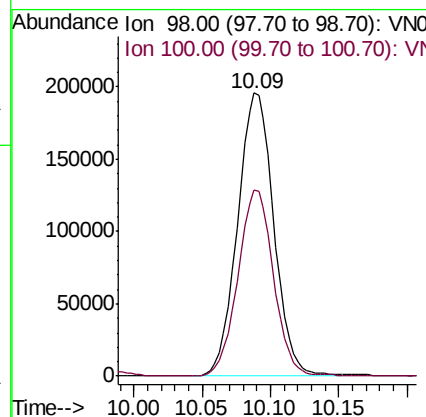
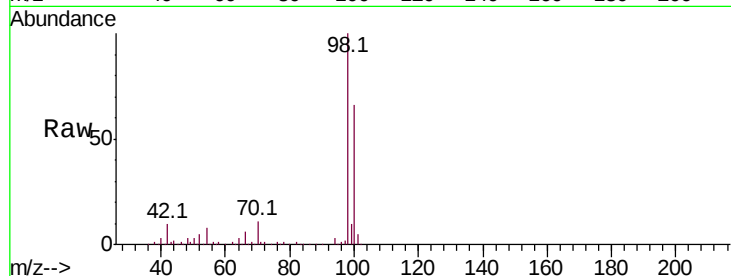
100 64.5 51.4 77.2

Manual Integrations

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#64

Chlorobenzene

Concen: 2.750 ug/l

RT: 11.43 min Scan# 3003

Delta R.T. -0.00 min

Lab File: VN056893.D

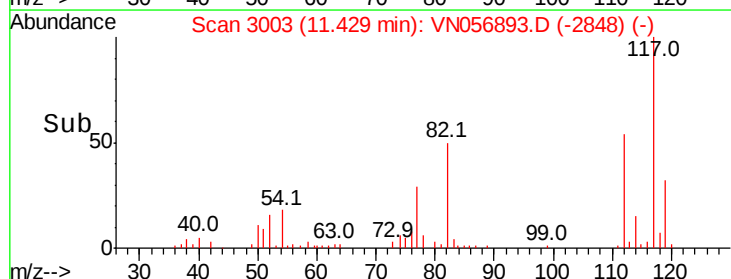
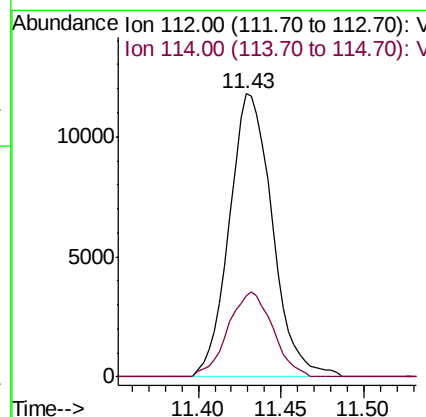
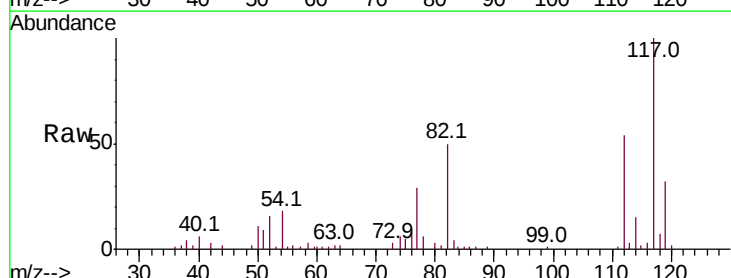
Acq: 23 Jul 2019 23:06

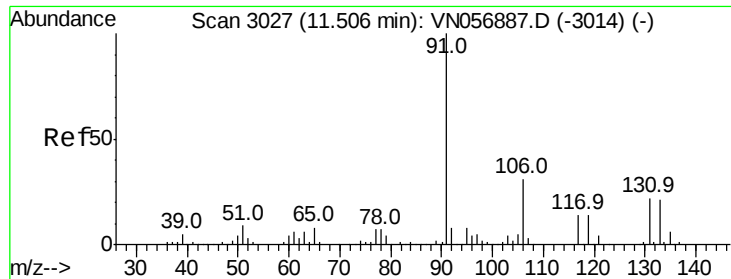
Tgt Ion: 112 Resp: 21295

Ion Ratio Lower Upper

112 100

114 28.6 26.7 40.1





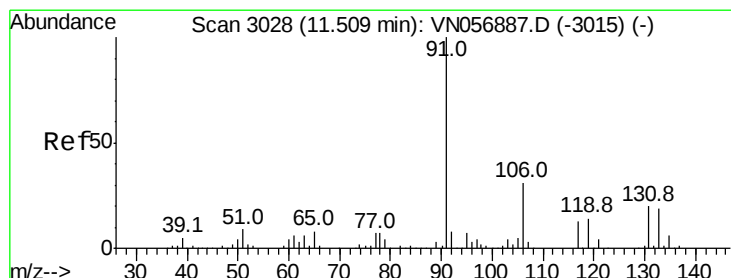
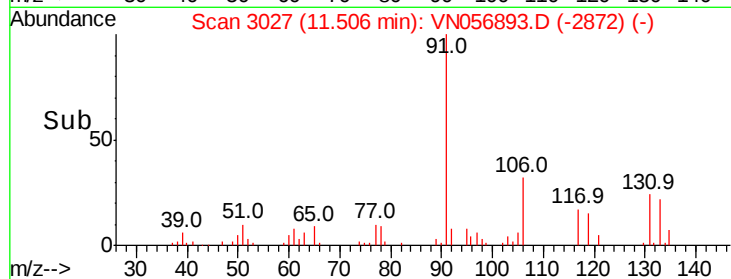
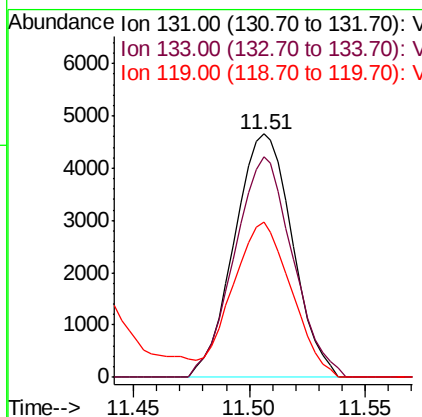
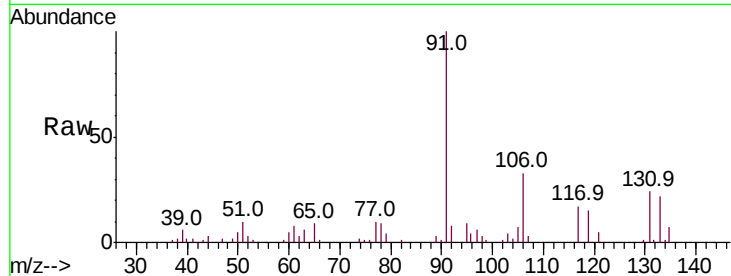
#65
 1,1,1,2-Tetrachloroethane
 Concen: 2.760 ug/l
 RT: 11.51 min Scan# 3027
 Delta R.T. -0.00 min
 Lab File: VN056893.D
 Acq: 23 Jul 2019 23:06

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
131	100		
133	91.2	0.0	189.6
119	65.0	0.0	133.6

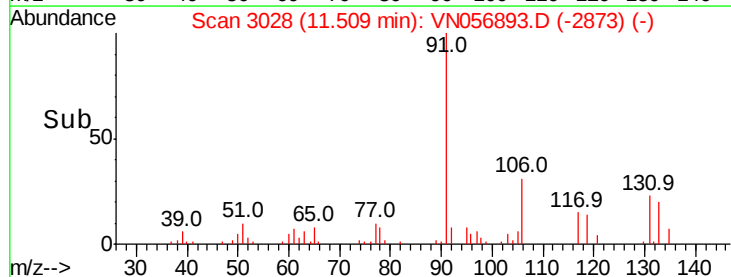
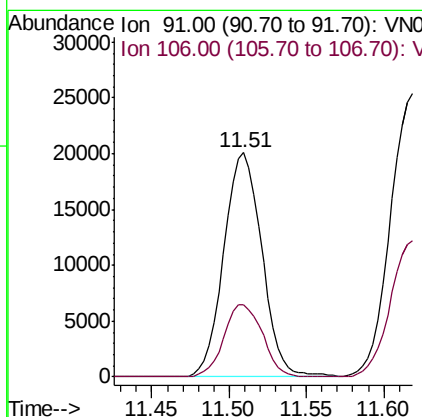
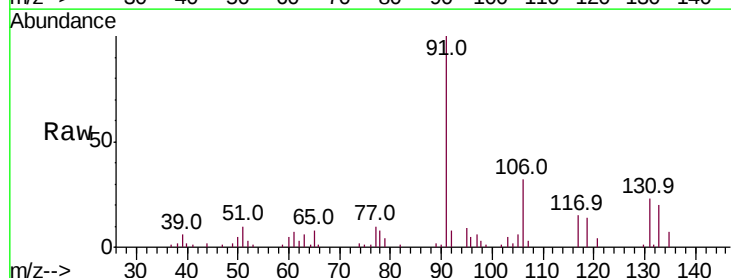
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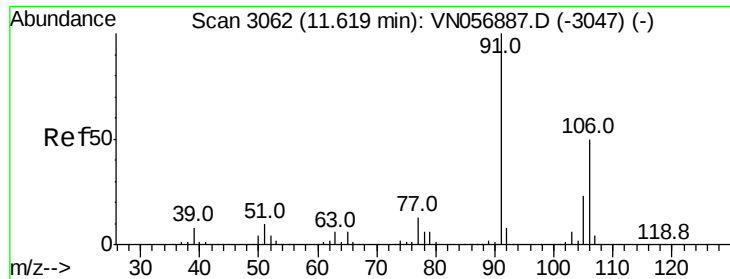
MMDadoda
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#66
 Ethyl Benzene
 Concen: 2.541 ug/l
 RT: 11.51 min Scan# 3028
 Delta R.T. -0.00 min
 Lab File: VN056893.D
 Acq: 23 Jul 2019 23:06

Tgt Ion	Ratio	Lower	Upper
91	100		
106	32.4	24.9	37.3





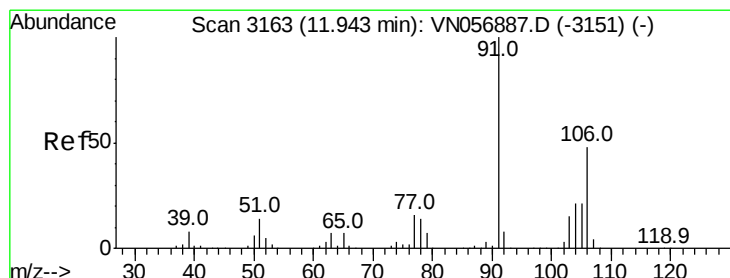
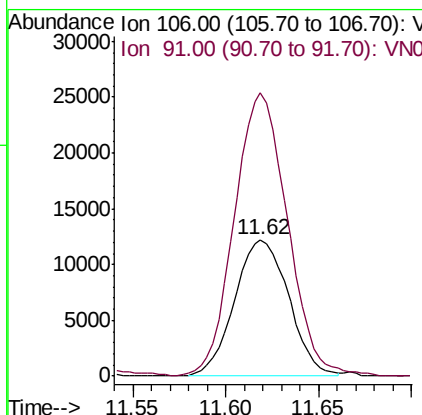
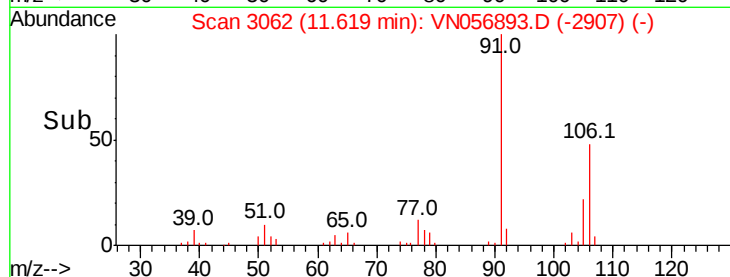
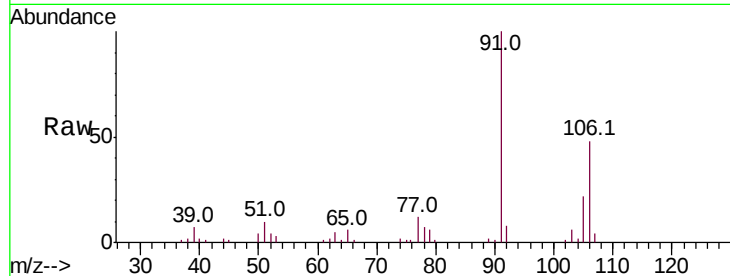
#67
m/p-Xylenes
Concen: 4.898 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion:106 Resp: 24741
Ion Ratio Lower Upper
106 100
91 204.2 160.6 240.8

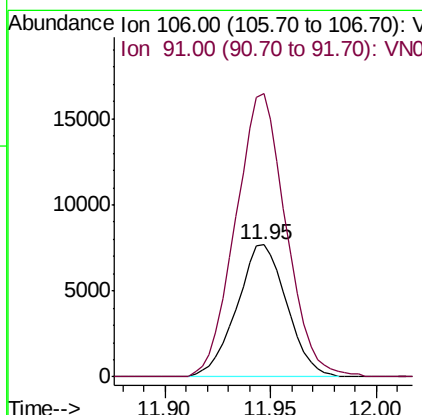
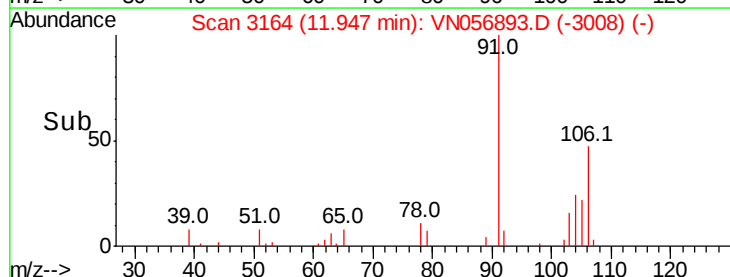
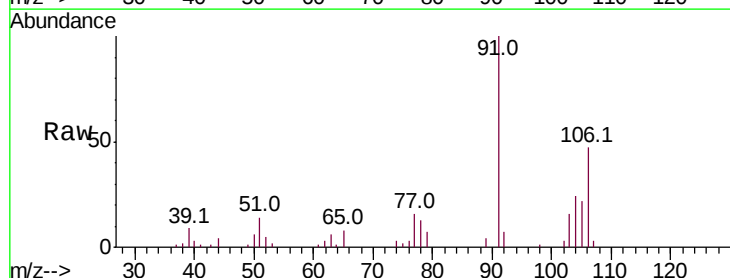
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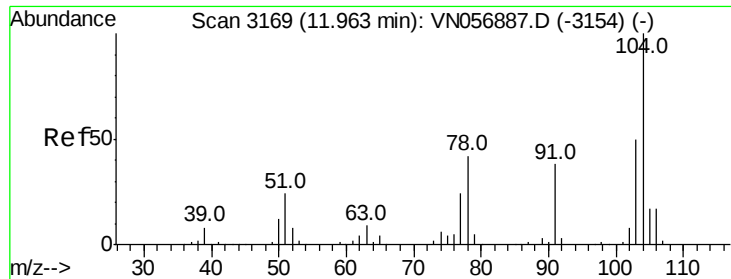
MMDadoda
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#68
o-Xylene
Concen: 2.547 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Tgt Ion:106 Resp: 12648
Ion Ratio Lower Upper
106 100
91 216.4 106.2 318.6





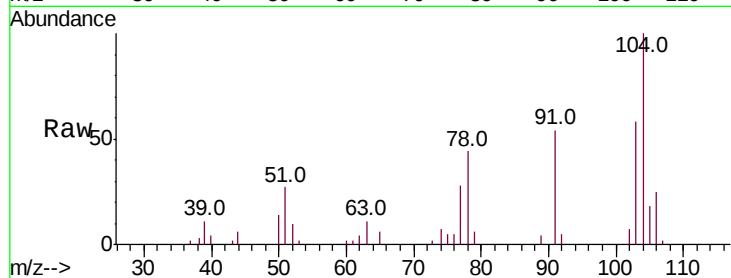
#69
Stvrene
Concen: 2.069 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

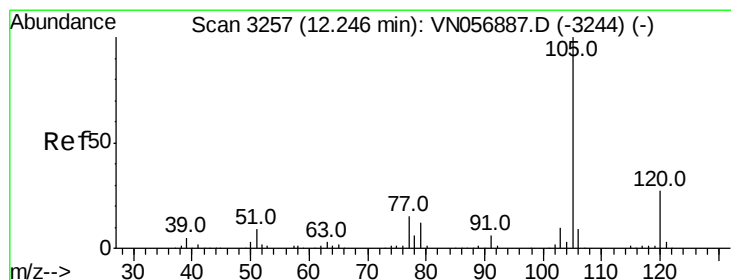
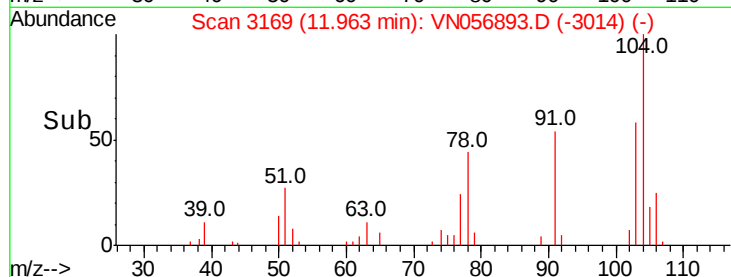
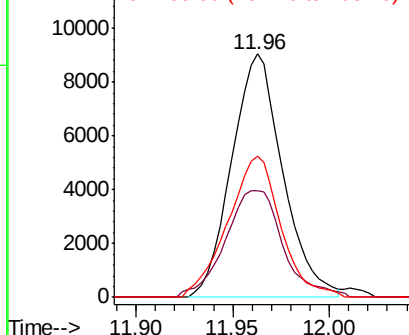
Tot Ion	Ratio	Lower	Upper
104	100		
78	49.5	38.5	57.7
103	60.0	44.7	67.1

Manual Integrations
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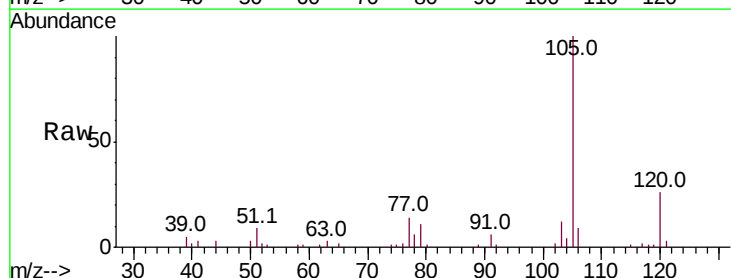


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): V
Ion 103.00 (102.70 to 103.70): V

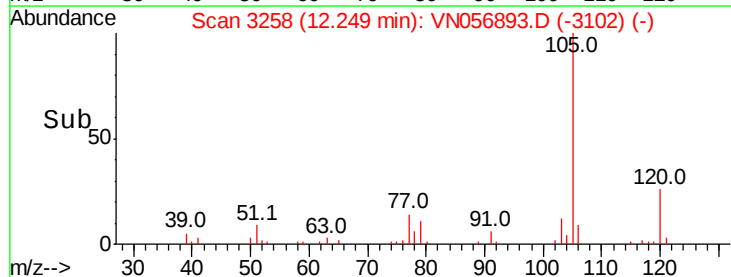
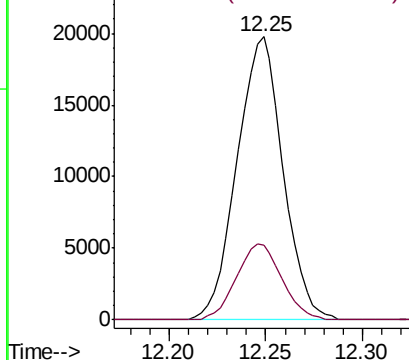


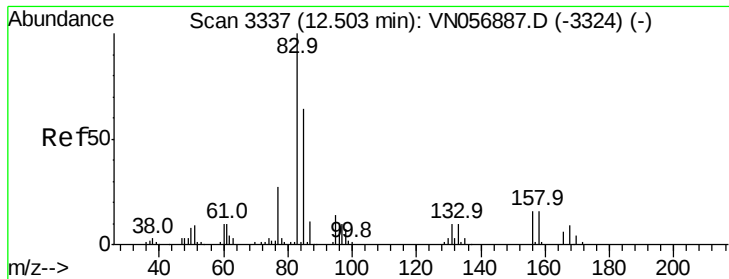
#70
Isopropylbenzene
Concen: 2.497 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.4	18.7	34.7



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





#71

1,1,2,2-Tetrachloroethane

Concen: 2.751 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

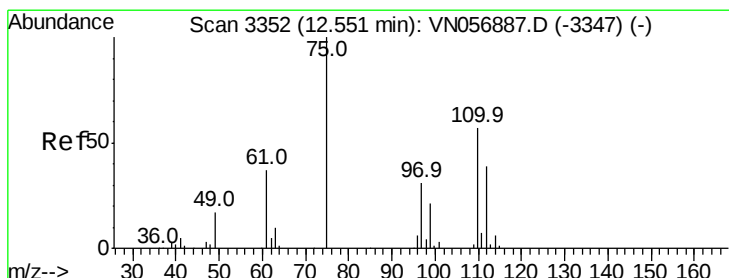
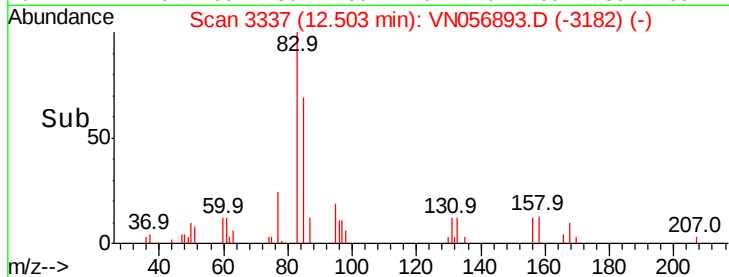
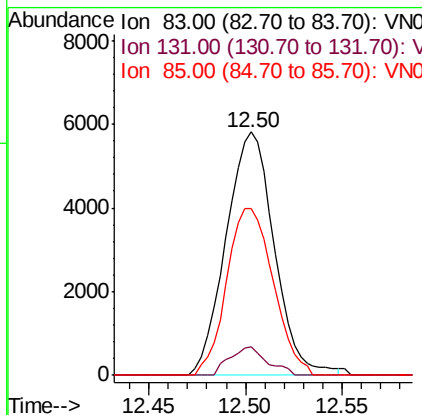
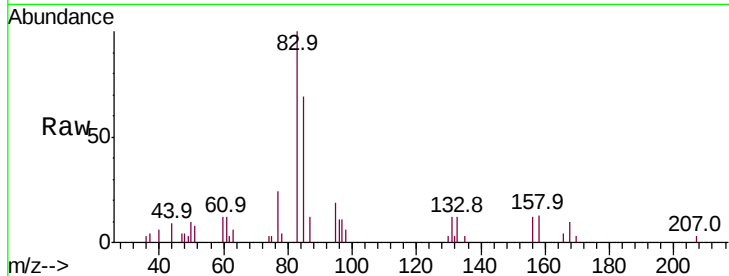
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion:	83	Resp:	10074
Ion Ratio	Lower	Upper	
83	100		
131	9.0	5.1	15.2
85	66.3	31.8	95.4

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#72

1,2,3-Trichloropropane

Concen: 2.797 ug/l m

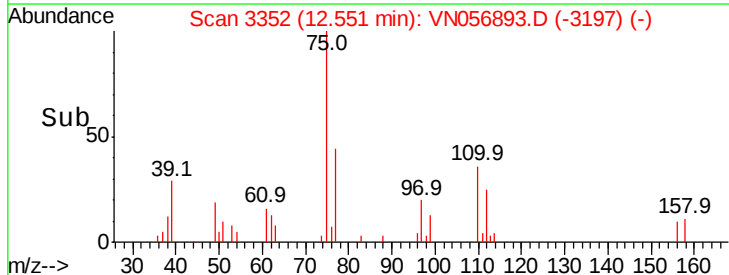
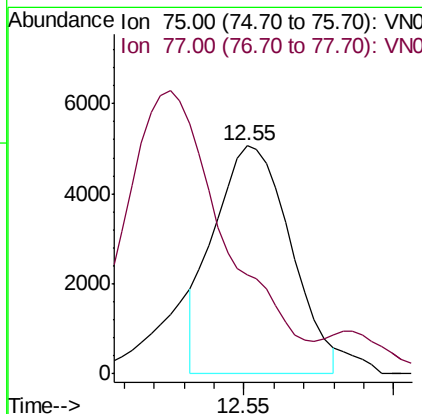
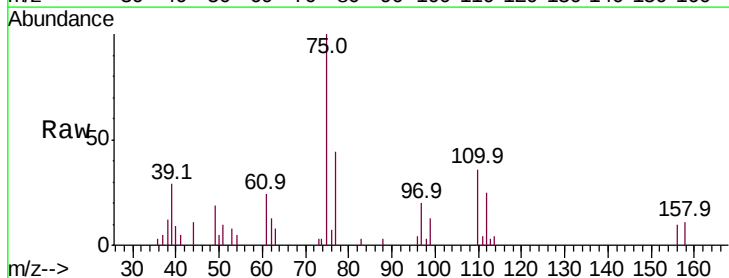
RT: 12.55 min Scan# 3352

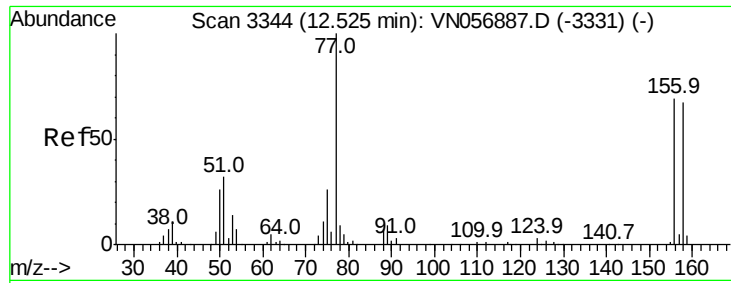
Delta R.T. -0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Tgt Ion:	75	Resp:	9014
Ion Ratio	Lower	Upper	
75	100		
77	162.5	0.0	378.6





#73

Bromobenzene

Concen: 2.398 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

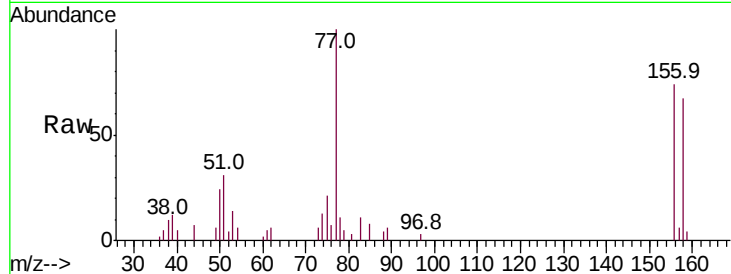
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

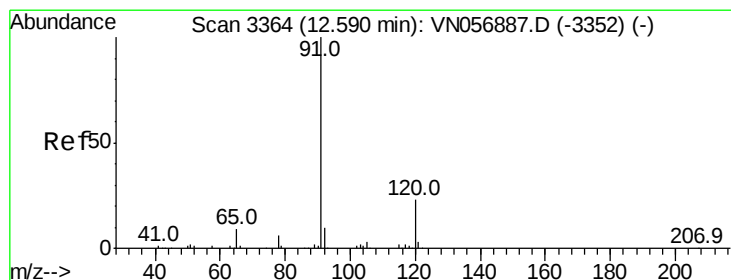
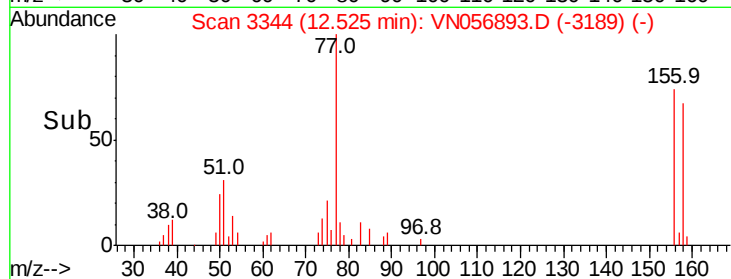
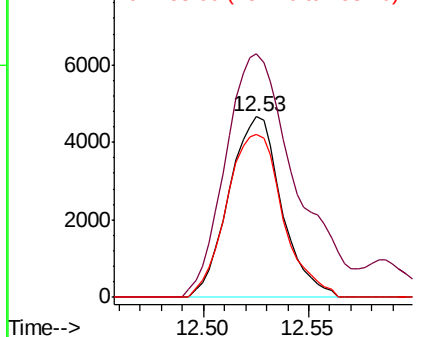
Tot Ion:	156	Resp:	8091
Ion Ratio	Lower	Upper	
156	100		
77	181.1	0.0	364.6
158	96.2	0.0	196.2

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Abundance Ion 156.00 (155.70 to 156.70): V
Ion 77.00 (76.70 to 77.70): VNO
Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 2.208 ug/l

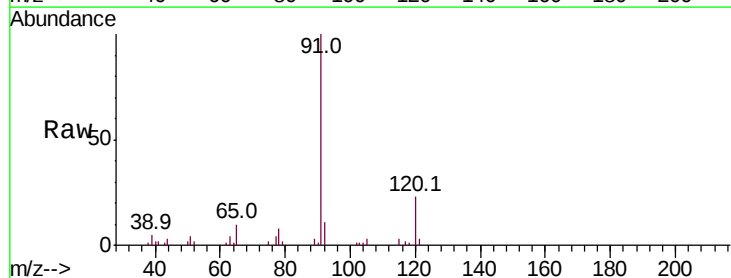
RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

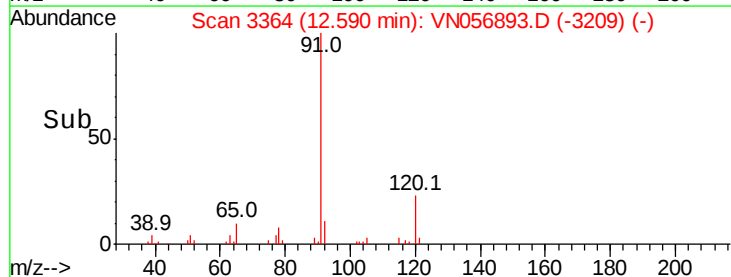
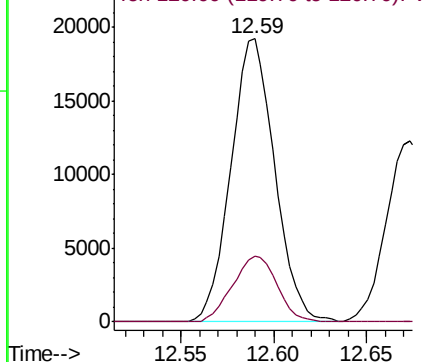
Lab File: VN056893.D

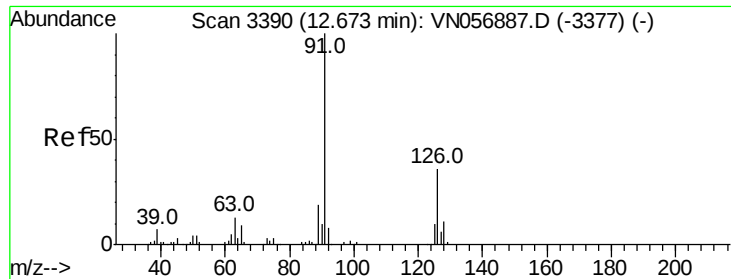
Acq: 23 Jul 2019 23:06

Tgt Ion:	91	Resp:	31564
Ion Ratio	Lower	Upper	
91	100		
120	23.5	0.0	46.4



Abundance Ion 91.00 (90.70 to 91.70): VNO
Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 2.387 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion: 91 Resp: 20693

Ion Ratio Lower Upper

91 100

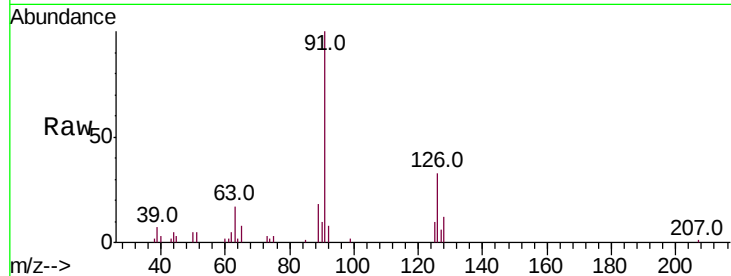
126 35.3 0.0 70.8

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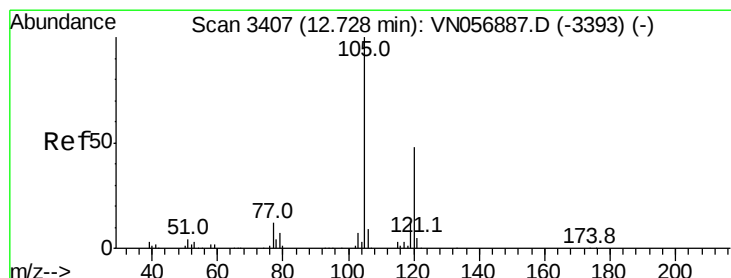
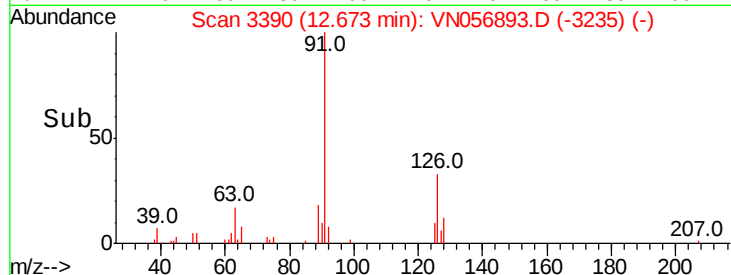
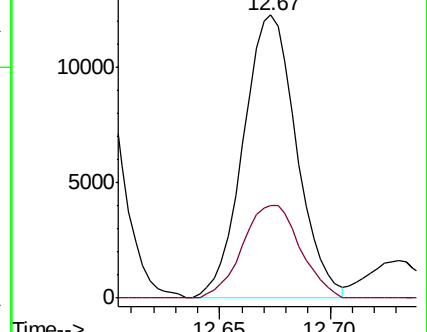
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Abundance Ion 91.00 (90.70 to 91.70): VN056887.D (-3377) (-)

Ion 126.00 (125.70 to 126.70): VN056887.D (-3377) (-)



#76

1,3,5-Trimethylbenzene

Concen: 2.412 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN056893.D

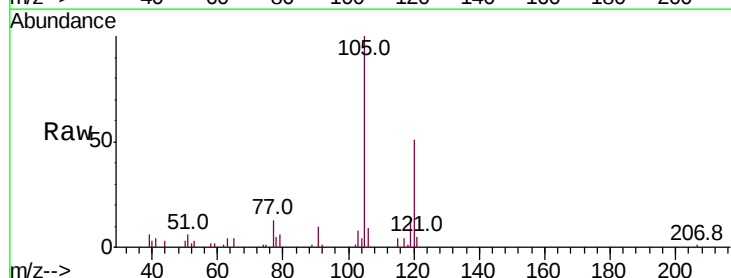
Acq: 23 Jul 2019 23:06

Tgt Ion: 105 Resp: 26547

Ion Ratio Lower Upper

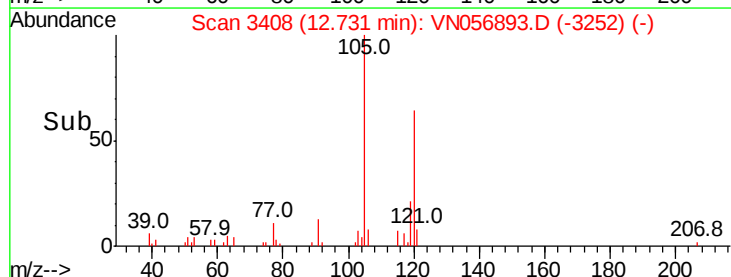
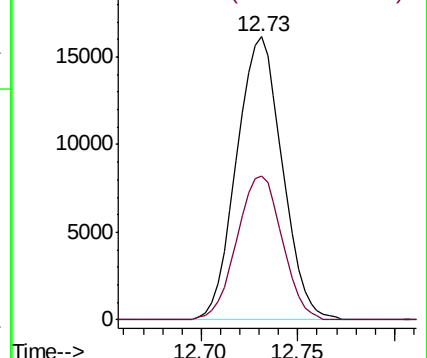
105 100

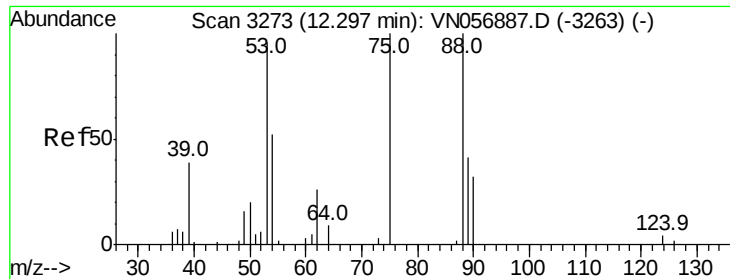
120 50.3 0.0 97.2



Abundance Ion 105.00 (104.70 to 105.70): VN056887.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN056887.D (-3393) (-)





#77

t-1,4-Dichloro-2-butene

Concen: 1.693 ug/l

RT: 12.30 min Scan# 3273

Delta R.T. -0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

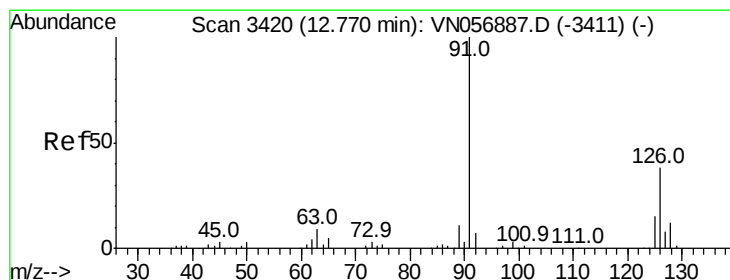
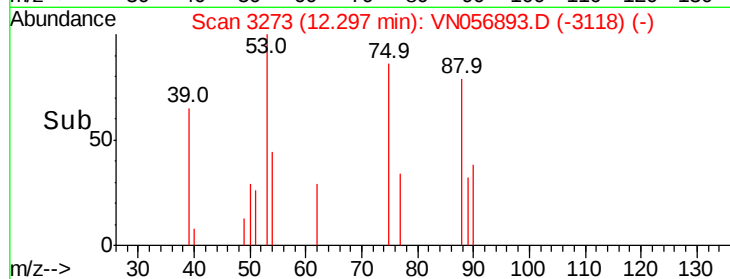
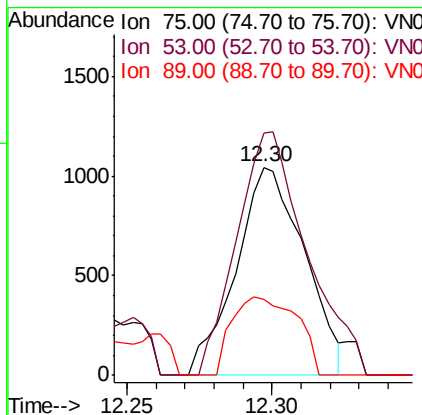
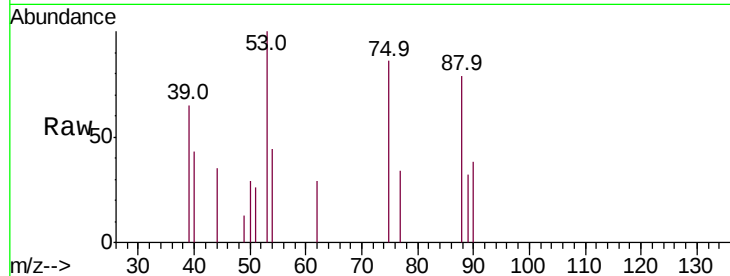
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion:	75	Resp:	1713
Ion	Ratio	Lower	Upper
75	100		
53	116.8	48.0	144.0
89	36.8	21.4	64.3

Manual Integrations
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#78

4-Chlorotoluene

Concen: 2.023 ug/l

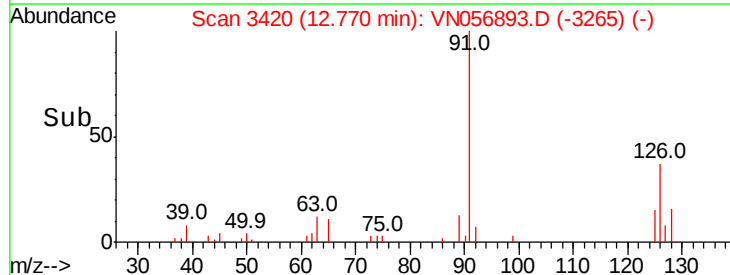
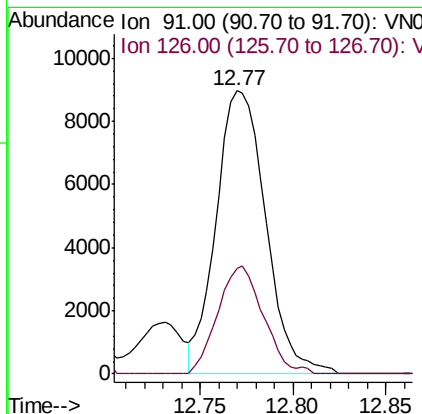
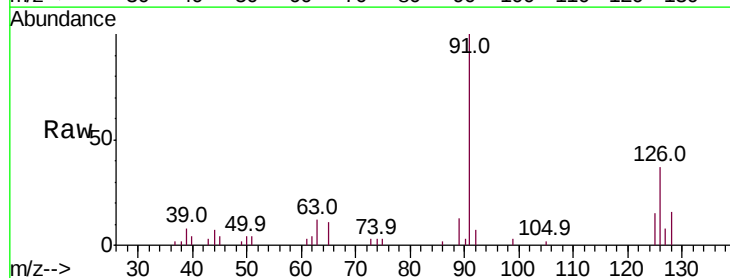
RT: 12.77 min Scan# 3420

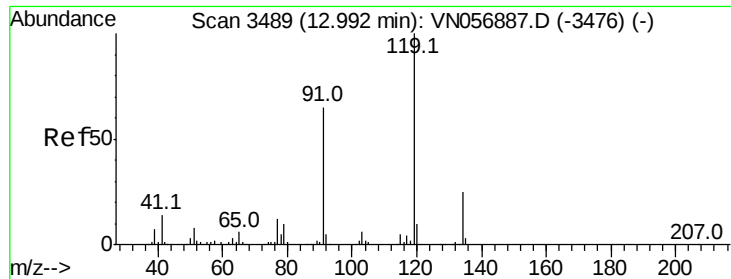
Delta R.T. -0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Tgt Ion:	91	Resp:	16666
Ion	Ratio	Lower	Upper
91	100		
126	34.5	0.0	69.6





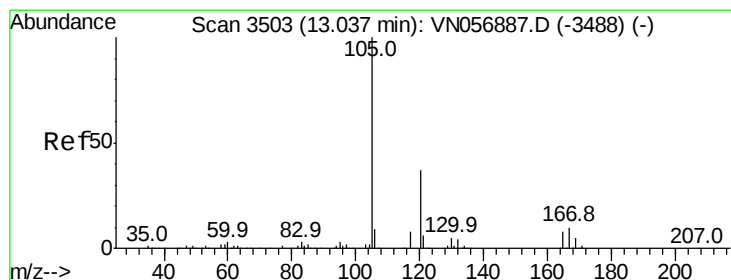
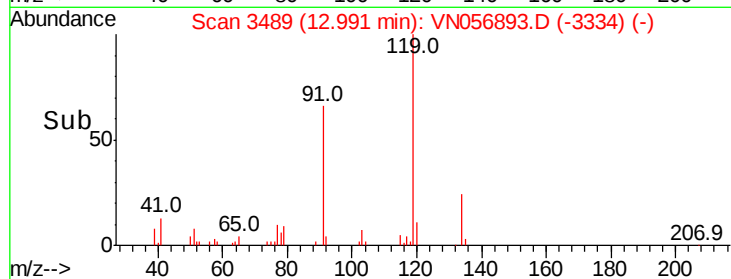
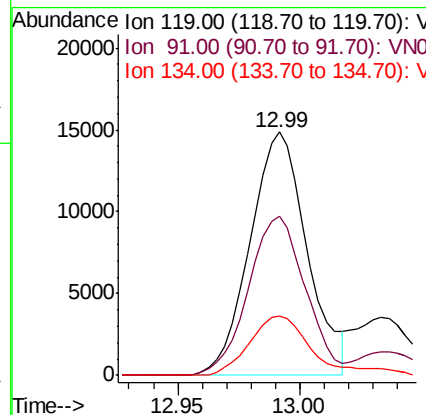
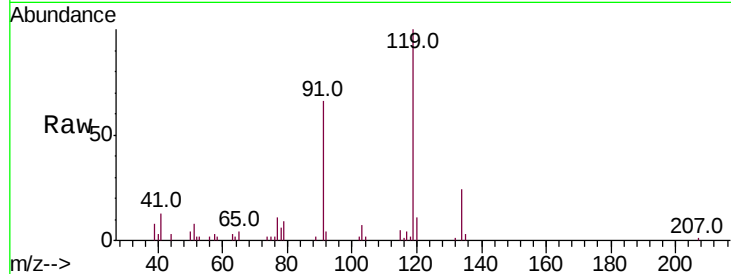
#79
tert-butylbenzene
Concen: 2.537 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion	Ratio	Resp	Lower	Upper
119	100	24100		
91	65.2		0.0	126.8
134	25.6		0.0	48.8

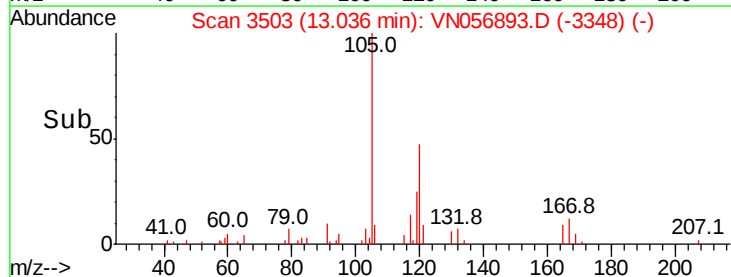
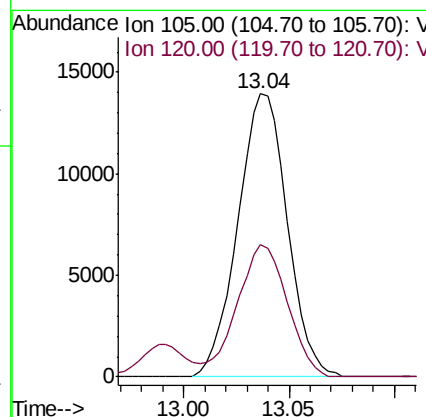
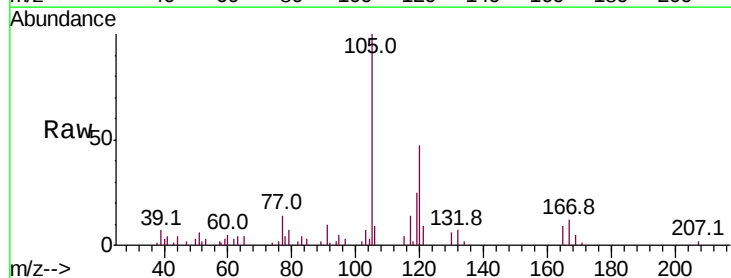
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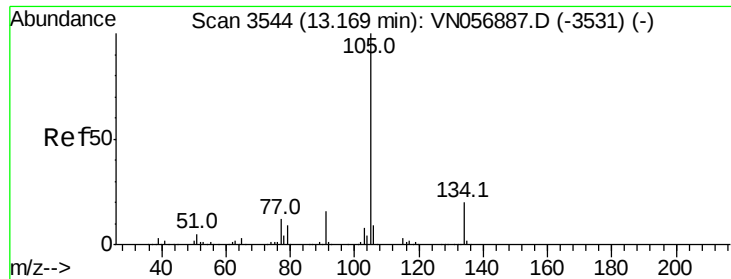
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#80
1,2,4-Trimethylbenzene
Concen: 2.116 ug/l
RT: 13.04 min Scan# 3503
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	22709		
120	47.5		0.0	90.6





#81

sec-Butylbenzene

Concen: 2.314 ug/l

RT: 13.17 min Scan# 3544

Delta R.T. -0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion:105 Resp: 28700

Ion Ratio Lower Upper

105 100

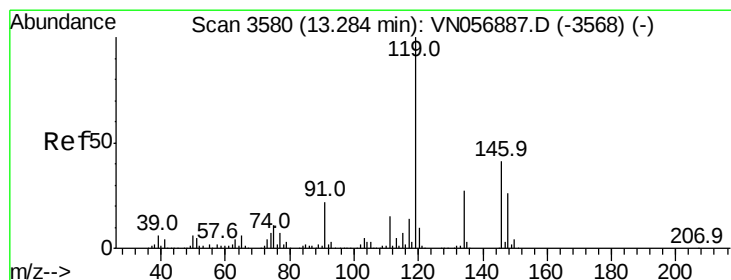
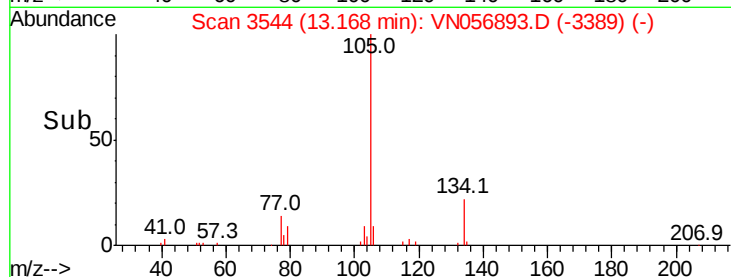
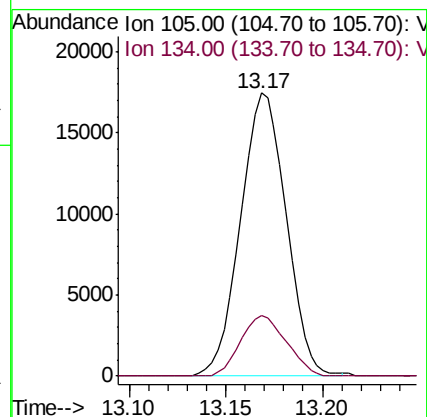
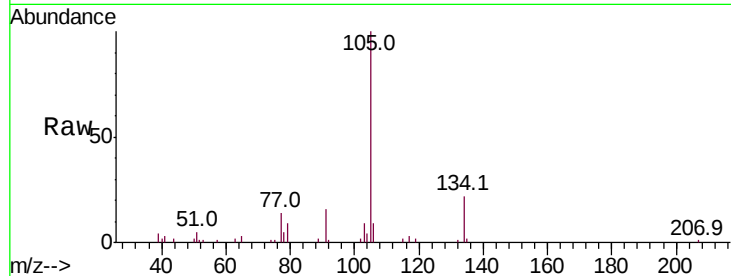
134 21.3 0.0 41.2

Manual Integrations

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#82

p-Isopropyltoluene

Concen: 2.193 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

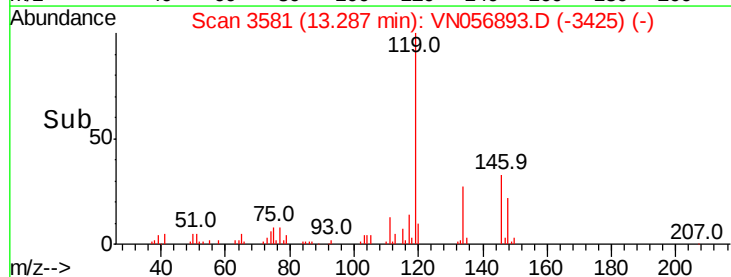
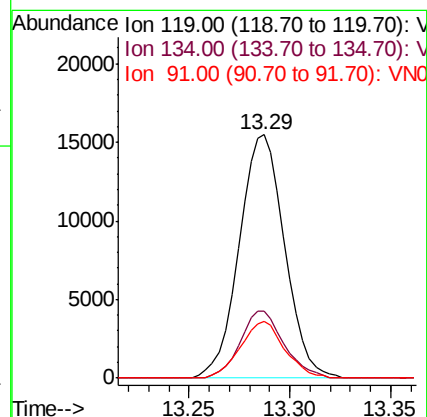
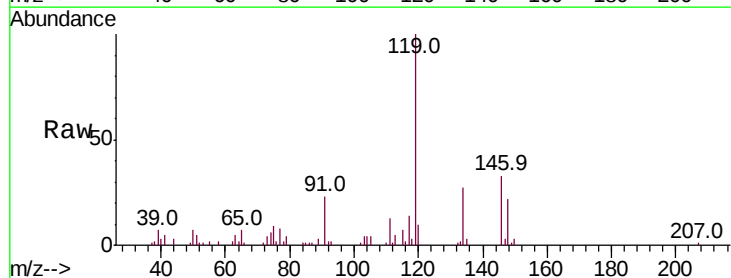
Tgt Ion:119 Resp: 24421

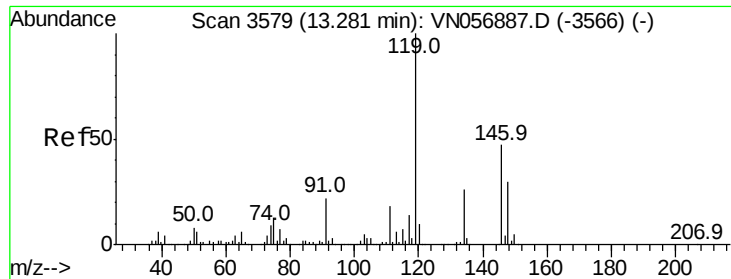
Ion Ratio Lower Upper

119 100

134 26.4 0.0 53.2

91 22.8 0.0 44.0





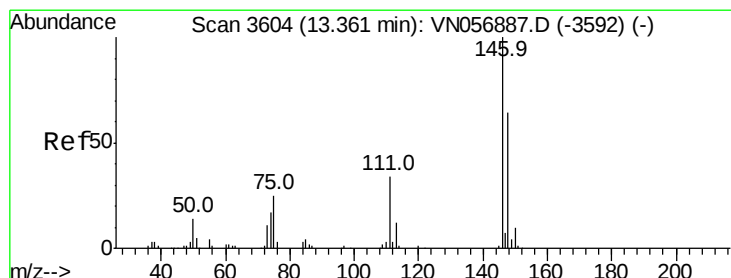
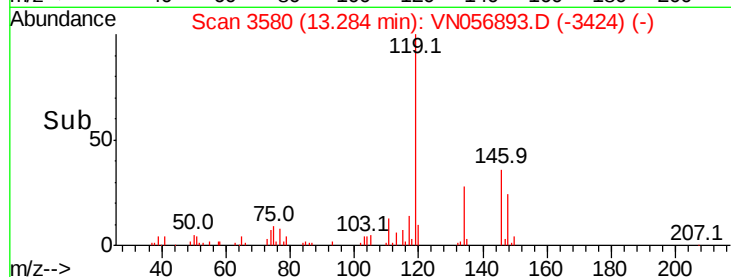
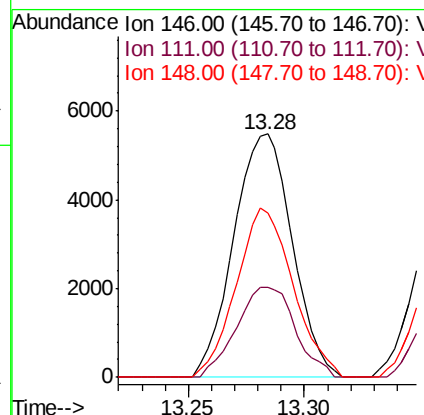
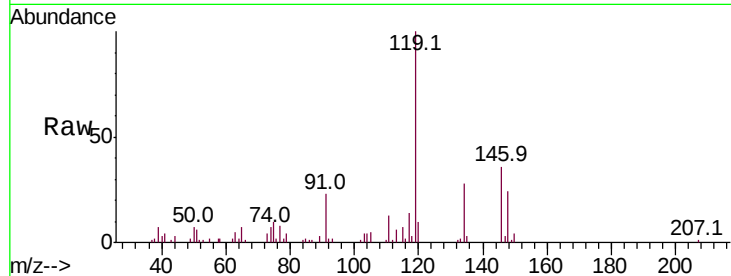
#83
1,3-Dichlorobenzene
Concen: 1.810 ug/l
RT: 13.28 min Scan# 3580
Delta R.T. 0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.2	18.8	56.4
148	67.4	31.7	95.1

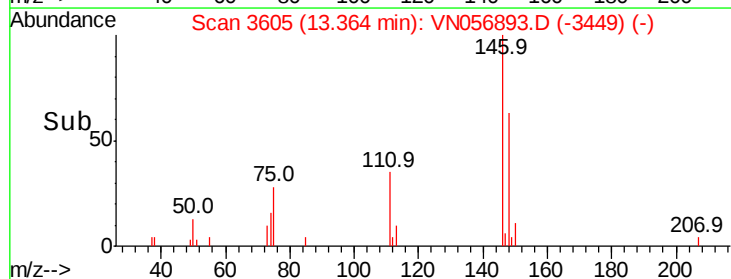
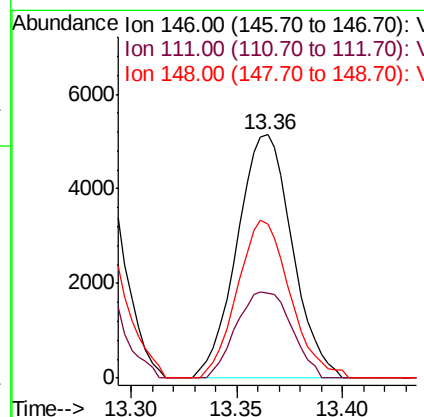
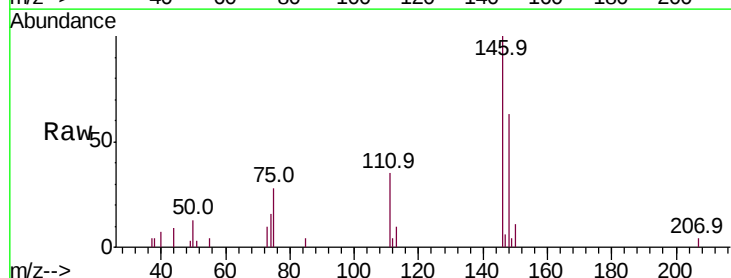
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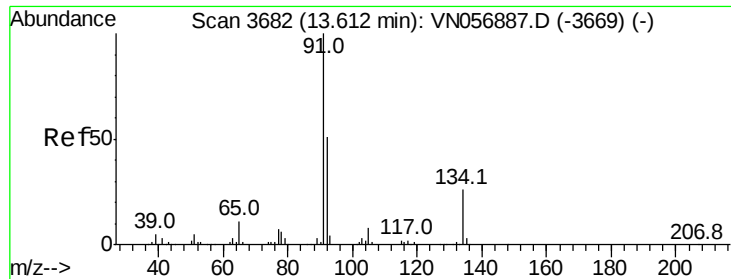
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#84
1,4-Dichlorobenzene
Concen: 1.862 ug/l
RT: 13.36 min Scan# 3605
Delta R.T. 0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.4	17.8	53.5
148	61.8	32.6	97.7





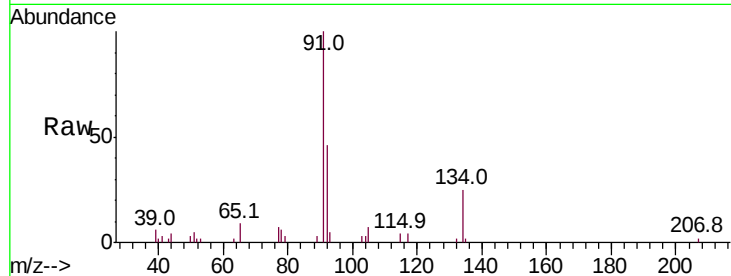
#85
n-Butylbenzene
Concen: 1.825 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

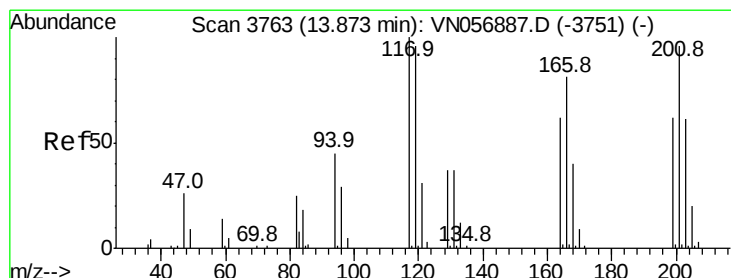
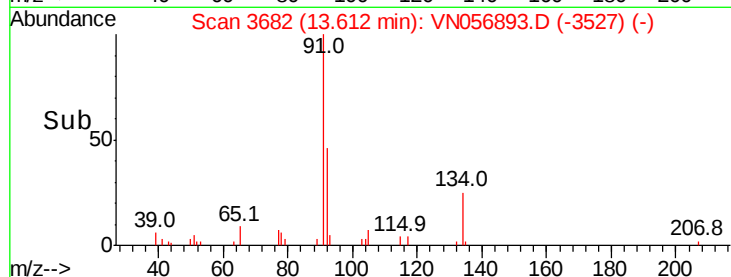
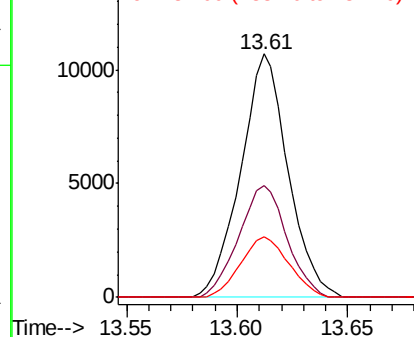
Tot Ion	Ratio	Resp	Lower	Upper
91	100	15964		
92	46.4	0.0	101.8	
134	25.3	0.0	52.4	

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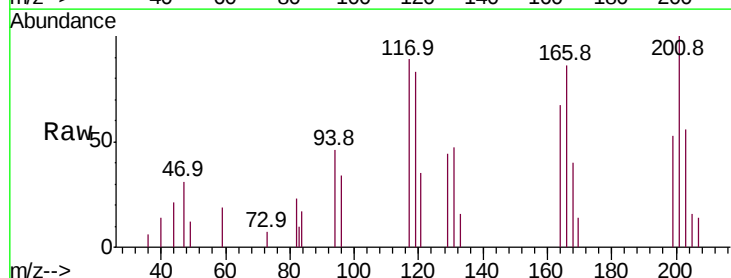


Abundance Ion 91.00 (90.70 to 91.70): VN056887.D (-3669) (-)
Ion 92.00 (91.70 to 92.70): VN056887.D (-3669) (-)
Ion 134.00 (133.70 to 134.70): VN056887.D (-3669) (-)

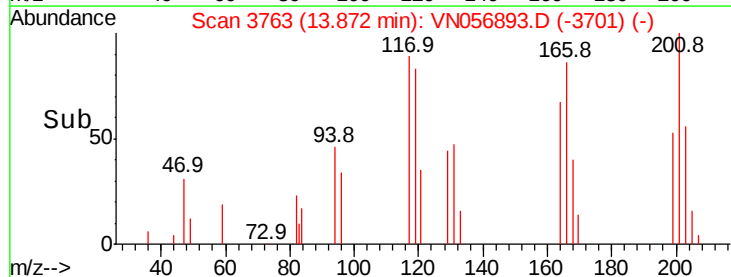
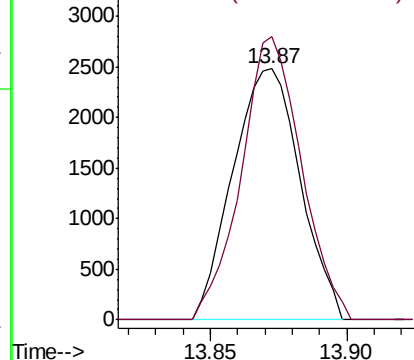


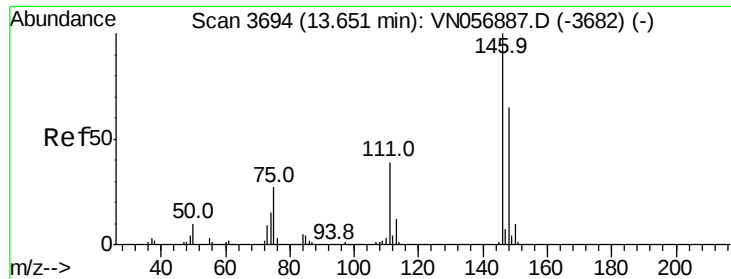
#86
Hexachloroethane
Concen: 2.280 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	4250		
201	100.7	47.8	143.3	



Abundance Ion 117.00 (116.70 to 117.70): VN056887.D (-3751) (-)
Ion 201.00 (200.70 to 201.70): VN056887.D (-3751) (-)





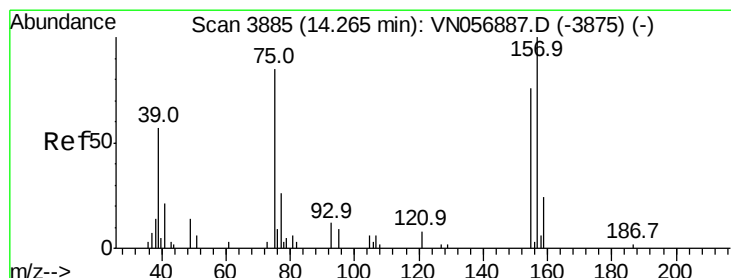
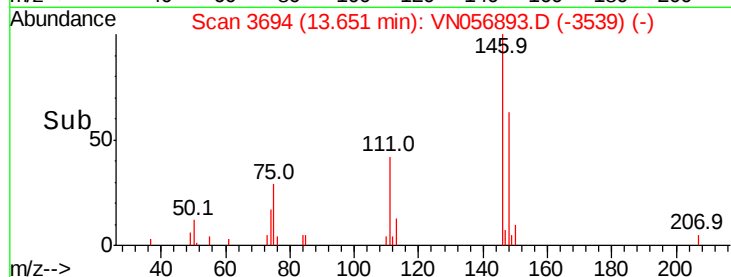
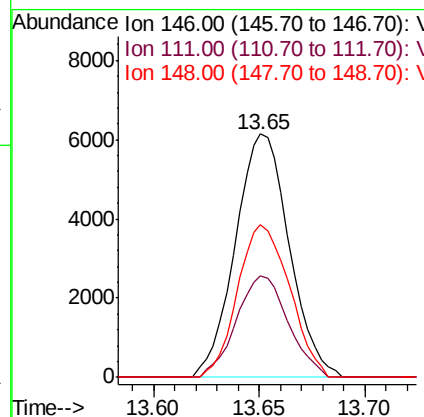
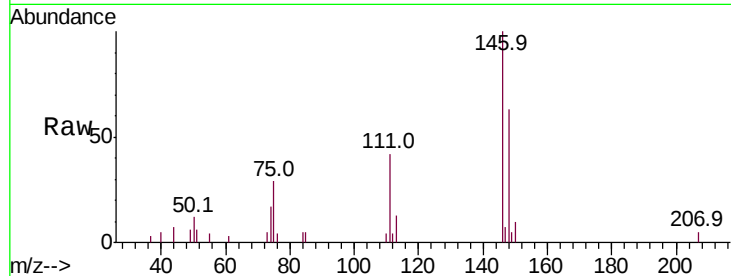
#87
 1,2-Dichlorobenzene
 Concen: 2.069 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN056893.D
 Acq: 23 Jul 2019 23:06

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.1	19.6	58.8
148	60.3	32.5	97.5

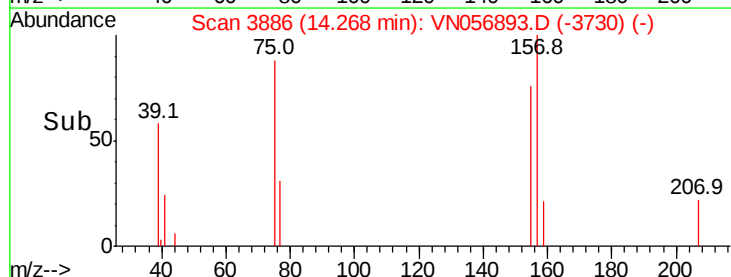
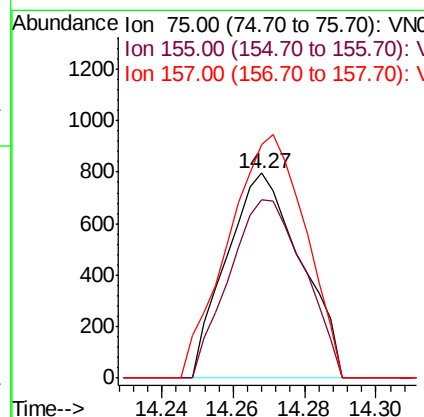
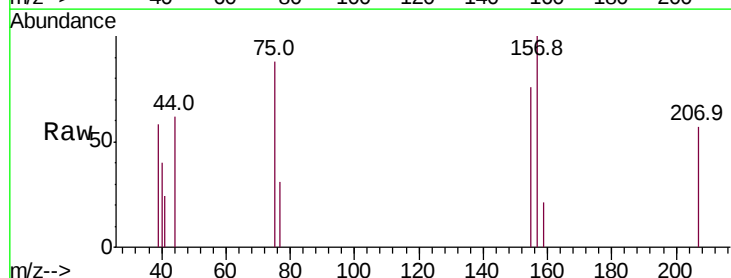
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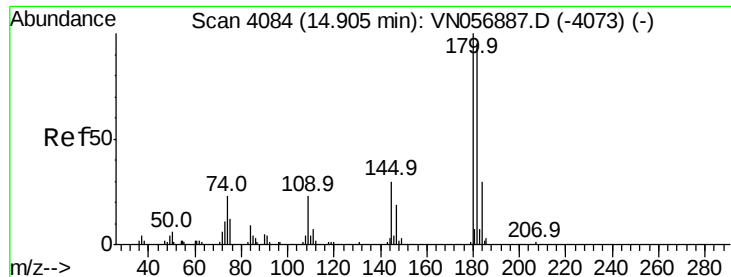
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#88
 1,2-Dibromo-3-Chloropropane
 Concen: 2.032 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN056893.D
 Acq: 23 Jul 2019 23:06

Tgt Ion	Ratio	Lower	Upper
75	100		
155	87.4	73.4	110.2
157	122.8	95.0	142.6





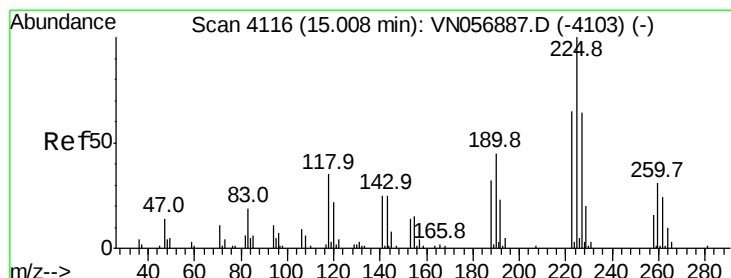
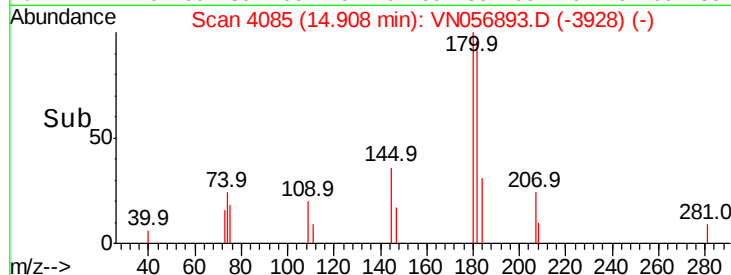
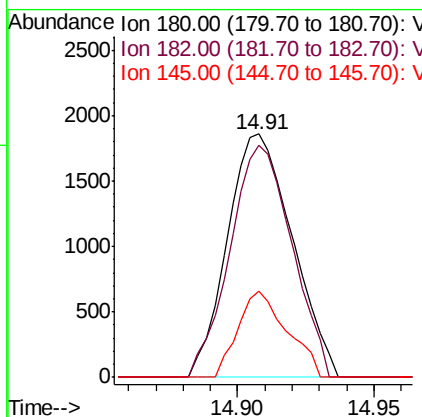
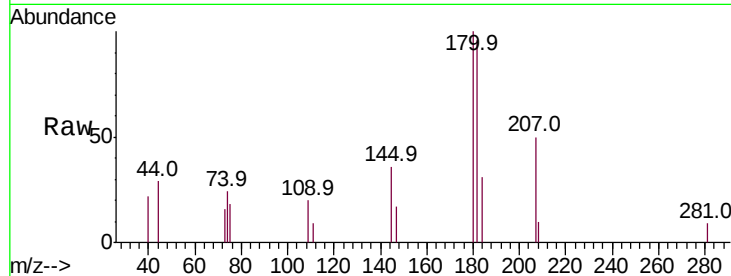
#89
 1,2,4-Trichlorobenzene
 Concen: 1.205 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN056893.D
 Acq: 23 Jul 2019 23:06

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
180	100		
182	90.7	77.0	115.4
145	26.7	23.5	35.3

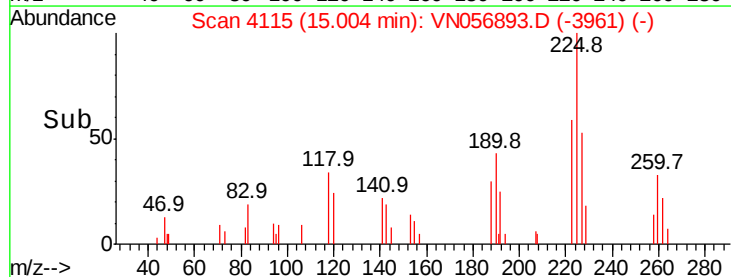
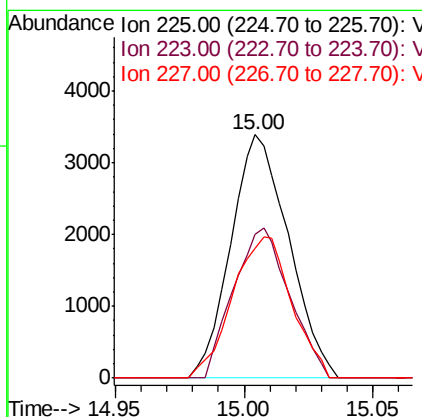
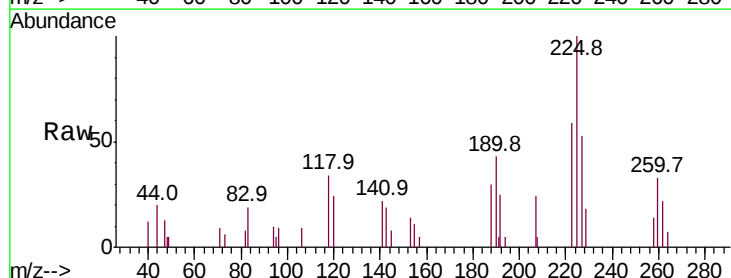
Manual Integrations
 APPROVED

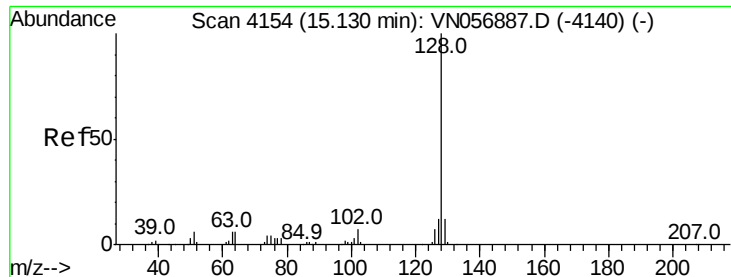
MMDadoda
 7/25/2019 2:20:20 PM



#90
 Hexachlorobutadiene
 Concen: 2.737 ug/l
 RT: 15.00 min Scan# 4115
 Delta R.T. -0.00 min
 Lab File: VN056893.D
 Acq: 23 Jul 2019 23:06

Tgt Ion	Ratio	Lower	Upper
225	100		
223	59.7	0.0	130.0
227	59.3	0.0	127.2





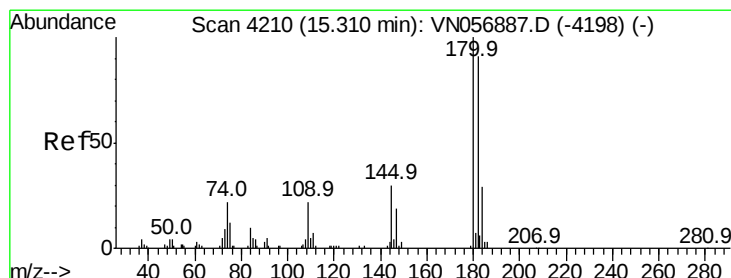
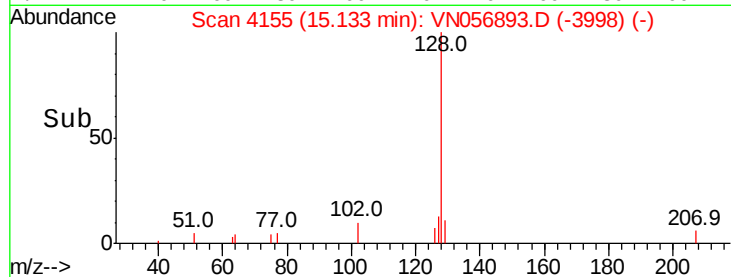
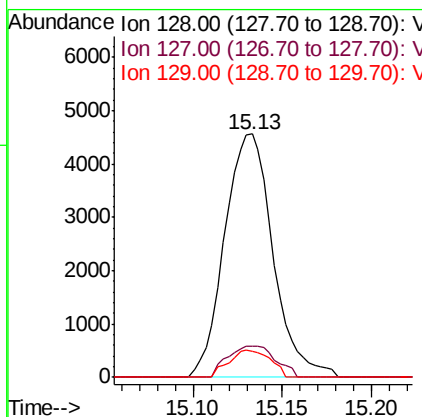
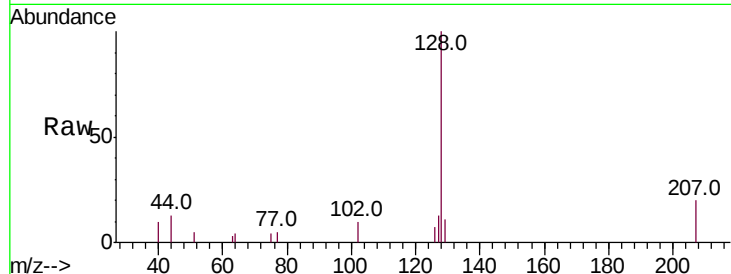
#91
Naphthalene
Concen: 1.303 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.0	15.0
129	9.6	8.9	13.3

Manual Integrations
APPROVED

MMDadoda
7/25/2019 2:20:20 PM



#92
1,2,3-Trichlorobenzene
Concen: 1.530 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.01 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Tgt Ion	Ratio	Lower	Upper
180	100		
182	89.9	0.0	188.0
145	24.6	0.0	61.0

