

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041619\
 Data File : VN055073.D
 Acq On : 16 Apr 2019 12:55
 Operator : JC/SP
 Sample : K2241-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT2-2019

Manual Integrations
 APPROVED

MMDadoda
 4/19/2019 2:46:40 PM

Quant Time: Apr 19 14:44:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041519W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 19 14:38:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	353310	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	582834	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	503029	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	159568	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.02	65	243116	51.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.54%	
35) Dibromofluoromethane	7.59	113	193552	49.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.38%	
50) Toluene-d8	10.09	98	683826	49.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.10%	
62) 4-Bromofluorobenzene	12.40	95	206441	45.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.10%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.85	85	2290	0.570	ug/l	91
3) Chloromethane	2.06	50	3729	0.712	ug/l	95
4) Vinyl Chloride	2.18	62	2326	0.528	ug/l	94
5) Bromomethane	2.55	94	2439	0.979	ug/l	92
6) Chloroethane	2.71	64	1780	0.750	ug/l	98
7) Trichlorofluoromethane	3.02	101	3352	0.609	ug/l #	75
8) Diethyl Ether	3.40	74	1167	0.664	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.74	101	1949	0.677	ug/l #	81
10) Methyl Iodide	3.95	142	9884	2.211	ug/l	98
11) Tert butyl alcohol	4.82	59	2906	11.289	ug/l #	78
12) 1,1-Dichloroethene	3.72	96	2025	0.722	ug/l	83
13) Acrolein	3.60	56	4291	13.486	ug/l #	81
14) Allyl chloride	4.31	41	4434m	0.646	ug/l	
15) Acrylonitrile	5.00	53	4763m	3.093	ug/l	
16) Acetone	3.81	43	5192	4.073	ug/l	93
17) Carbon Disulfide	4.04	76	6557	0.724	ug/l #	85
18) Methyl Acetate	4.34	43	3521m	0.861	ug/l	
19) Methyl tert-butyl Ether	5.06	73	6317m	0.630	ug/l	
20) Methylene Chloride	4.54	84	4247m	0.948	ug/l	
21) trans-1,2-Dichloroethene	5.03	96	2494m	0.658	ug/l	
22) Diisopropyl ether	5.96	45	8231	0.583	ug/l	94
23) Vinyl Acetate	5.90	43	24269	2.602	ug/l #	86
24) 1,1-Dichloroethane	5.84	63	3848	0.512	ug/l #	85
25) 2-Butanone	6.86	43	3950	2.076	ug/l	98
26) 2,2-Dichloropropane	6.82	77	2747m	0.579	ug/l	
27) cis-1,2-Dichloroethene	6.83	96	2822	0.658	ug/l	90
28) Bromochloromethane	7.19	49	2356m	0.650	ug/l	
29) Tetrahydrofuran	7.23	42	3695	2.962	ug/l #	82
30) Chloroform	7.37	83	4554	0.624	ug/l	88
31) Cyclohexane	7.66	56	11864	1.450	ug/l #	23
32) 1,1,1-Trichloroethane	7.56	97	3083	0.533	ug/l #	38
36) 1,1-Dichloropropene	7.79	75	2760	0.502	ug/l #	81
37) Ethyl Acetate	6.96	43	1662m	0.372	ug/l	
38) Carbon Tetrachloride	7.77	117	3930	0.752	ug/l #	84

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041619\
 Data File : VN055073.D
 Acq On : 16 Apr 2019 12:55
 Operator : JC/SP
 Sample : K2241-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT2-2019

Manual Integrations
 APPROVED

MMDadoda
 4/19/2019 2:46:40 PM

Quant Time: Apr 19 14:44:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041519W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 19 14:38:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	3164	0.531	ug/l	92
40) Benzene	8.04	78	9589	0.579	ug/l #	87
41) Methacrylonitrile	7.18	41	1434	0.578	ug/l #	52
42) 1,2-Dichloroethane	8.13	62	4563	0.794	ug/l	80
43) Isopropyl Acetate	8.17	43	4497	0.652	ug/l #	83
44) Trichloroethene	8.83	130	2413	0.582	ug/l	91
45) 1,2-Dichloropropane	9.12	63	2542	0.550	ug/l	91
46) Dibromomethane	9.20	93	1495	0.569	ug/l #	88
47) Bromodichloromethane	9.40	83	3011	0.556	ug/l #	86
48) Methyl methacrylate	9.20	41	2363	0.692	ug/l #	80
49) 1,4-Dioxane	9.20	88	371	11.592	ug/l #	46
51) 4-Methyl-2-Pentanone	9.99	43	10529	2.644	ug/l	94
52) Toluene	10.16	92	5771	0.608	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	2218	0.468	ug/l	89
54) cis-1,3-Dichloropropene	9.84	75	2759	0.469	ug/l	96
55) 1,1,2-Trichloroethane	10.56	97	2140	0.586	ug/l	93
56) Ethyl methacrylate	10.43	69	2639	0.602	ug/l #	76
57) 1,3-Dichloropropane	10.71	76	3977	0.639	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	3779	2.335	ug/l	90
59) 2-Hexanone	10.75	43	6271	2.507	ug/l	98
60) Dibromochloromethane	10.90	129	1788	0.501	ug/l	87
61) 1,2-Dibromoethane	11.00	107	1735	0.516	ug/l	92
64) Tetrachloroethene	10.63	164	2608	0.638	ug/l #	88
65) Chlorobenzene	11.43	112	5634	0.556	ug/l	94
66) 1,1,1,2-Tetrachloroethane	11.51	131	1875	0.503	ug/l #	63
67) Ethyl Benzene	11.51	91	10274	0.568	ug/l	91
68) m/p-Xylenes	11.62	106	6985	1.067	ug/l	98
69) o-Xylene	11.95	106	3375	0.532	ug/l	94
70) Styrene	11.96	104	5198	0.506	ug/l	95
71) Bromoform	12.13	173	1041	0.488	ug/l #	29
73) Isopropylbenzene	12.25	105	8948	0.632	ug/l	96
74) N-amyl acetate	12.07	43	2945	0.739	ug/l #	92
75) 1,1,2,2-Tetrachloroethane	12.50	83	2523	0.666	ug/l	94
76) 1,2,3-Trichloropropane	12.55	75	2172m	0.757	ug/l	
77) Bromobenzene	12.53	156	2212	0.627	ug/l	74
78) n-propylbenzene	12.59	91	9850	0.644	ug/l	99
79) 2-Chlorotoluene	12.67	91	6599	0.692	ug/l	93
80) 1,3,5-Trimethylbenzene	12.73	105	7922	0.693	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.29	75	290m	0.404	ug/l	
82) 4-Chlorotoluene	12.77	91	5673	0.637	ug/l	100
83) tert-Butylbenzene	12.99	119	5858	0.607	ug/l	92
84) 1,2,4-Trimethylbenzene	13.04	105	6104	0.564	ug/l	96
85) sec-Butylbenzene	13.17	105	7545	0.614	ug/l	99
86) p-Isopropyltoluene	13.29	119	6334	0.600	ug/l	97
87) 1,3-Dichlorobenzene	13.28	146	3661	0.682	ug/l	95
88) 1,4-Dichlorobenzene	13.36	146	3346m	0.654	ug/l	
89) n-Butylbenzene	13.62	91	5076	0.648	ug/l	100
90) Hexachloroethane	13.87	117	1173	0.683	ug/l	88
91) 1,2-Dichlorobenzene	13.65	146	3263	0.604	ug/l	92
92) 1,2-Dibromo-3-Chloropropan	14.26	75	301	0.645	ug/l #	52

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041619\
Data File : VN055073.D
Acq On : 16 Apr 2019 12:55
Operator : JC/SP
Sample : K2241-09
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

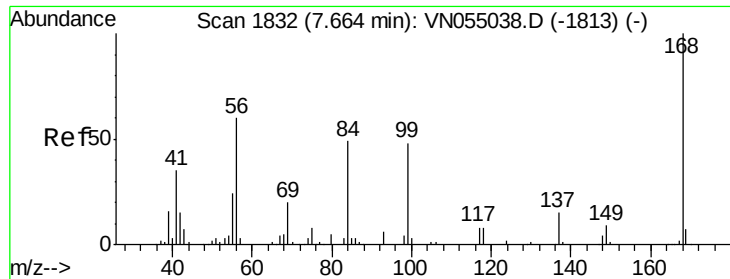
Manual Integrations
APPROVED

MMDadoda
4/19/2019 2:46:40 PM

Quant Time: Apr 19 14:44:03 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041519W.M
Quant Title : SW846 8260
QLast Update : Fri Apr 19 14:38:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	1587	0.772	ug/l	97
94) Hexachlorobutadiene	15.01	225	1501	0.900	ug/l	90
95) Naphthalene	15.13	128	3028	0.663	ug/l #	92
96) 1,2,3-Trichlorobenzene	15.31	180	1825	0.876	ug/l #	58

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:168 Resp: 353310

Ion Ratio Lower Upper

168 100

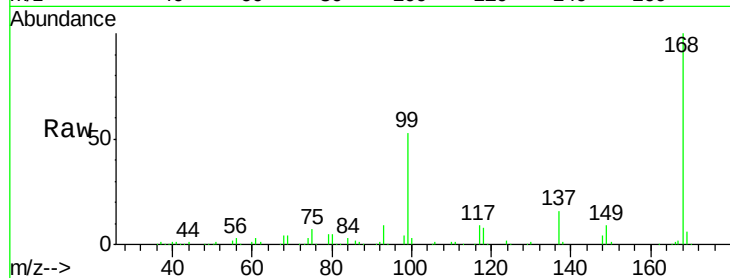
99 53.4 41.9 62.9

Manual Integrations

APPROVED

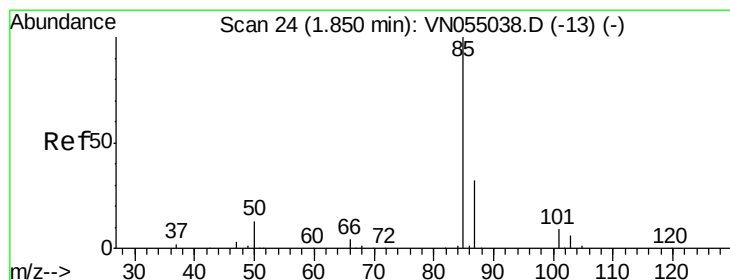
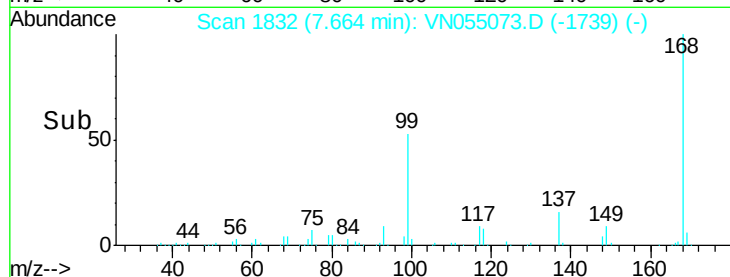
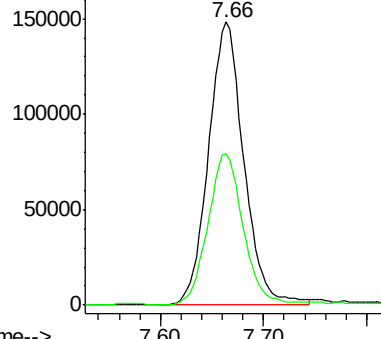
MMDadoda

4/19/2019 2:46:40 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 0.570 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN055073.D

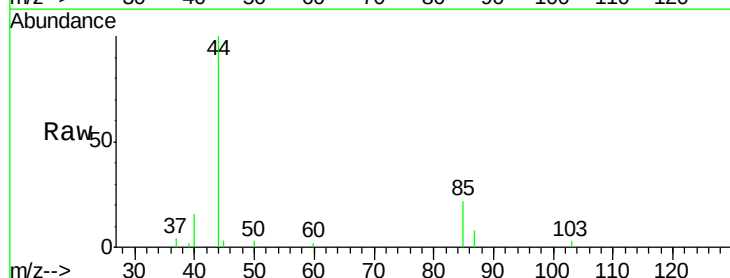
Acq: 16 Apr 2019 12:55

Tgt Ion: 85 Resp: 2290

Ion Ratio Lower Upper

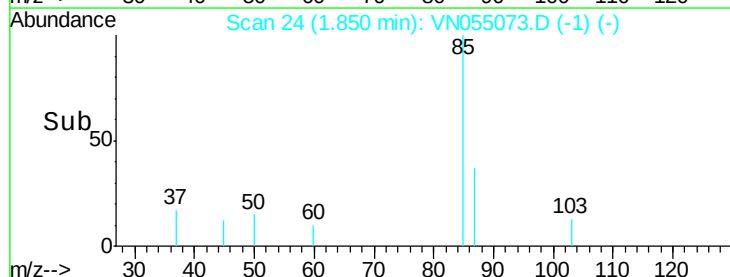
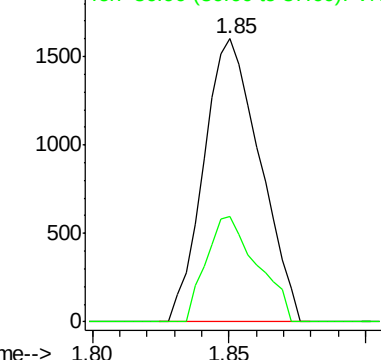
85 100

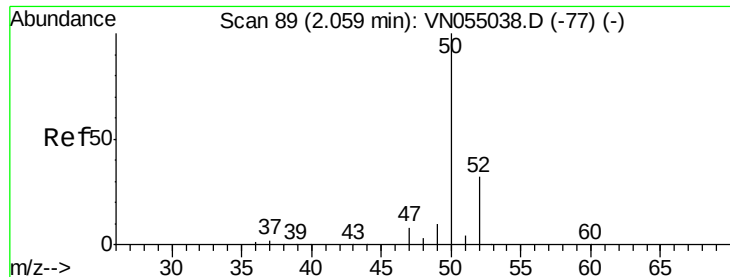
87 37.3 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 0.712 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 50 Resp: 3729

Ion Ratio Lower Upper

50 100

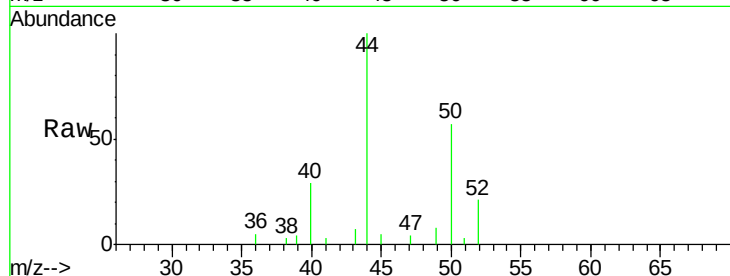
52 36.3 26.6 40.0

Manual Integrations

APPROVED

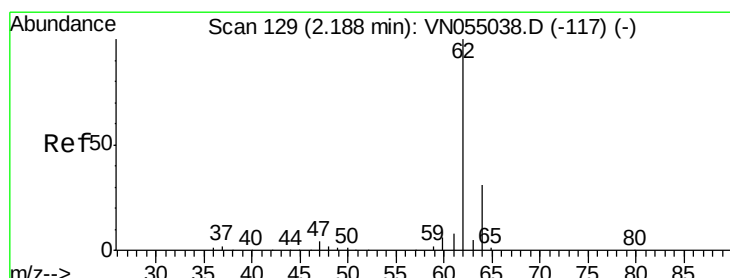
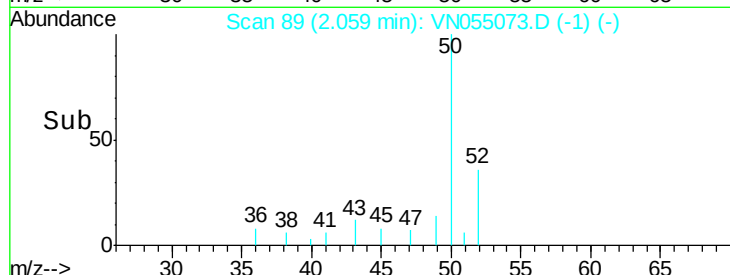
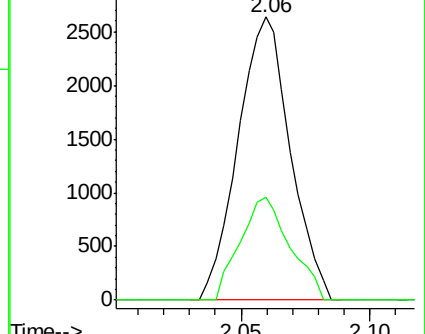
MMDadoda

4/19/2019 2:46:40 PM



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 0.528 ug/l

RT: 2.18 min Scan# 128

Delta R.T. -0.00 min

Lab File: VN055073.D

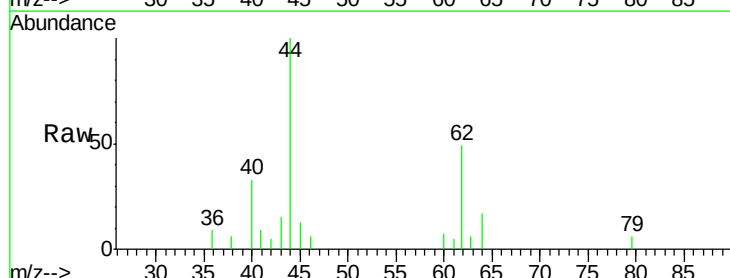
Acq: 16 Apr 2019 12:55

Tgt Ion: 62 Resp: 2326

Ion Ratio Lower Upper

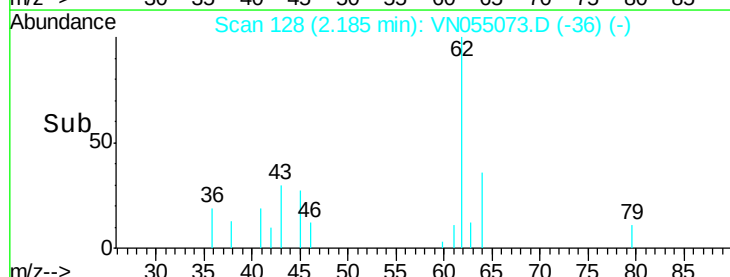
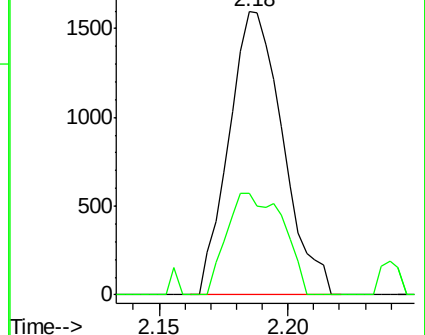
62 100

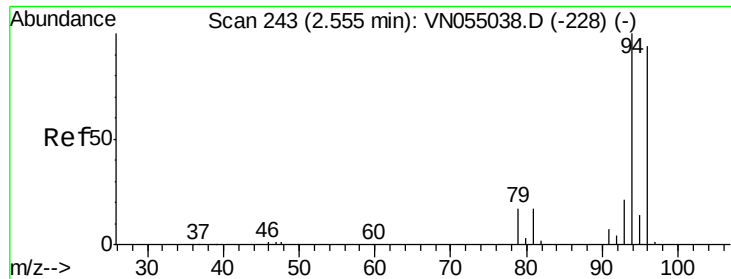
64 35.8 25.8 38.6



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 0.979 ug/l

RT: 2.55 min Scan# 243

Delta R.T. -0.00 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 94 Resp: 2439

Ion Ratio Lower Upper

94 100

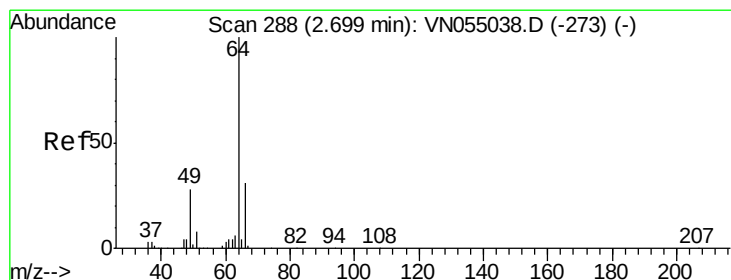
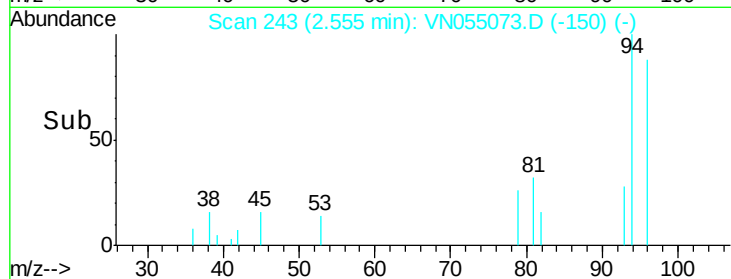
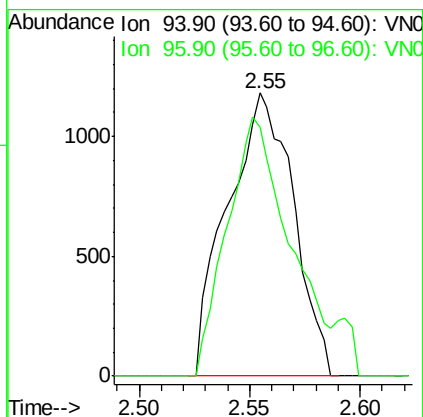
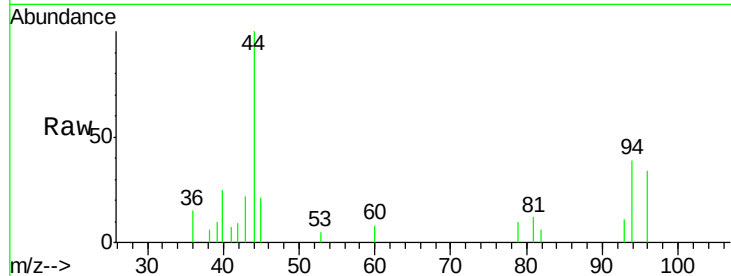
96 87.9 76.2 114.4

Manual Integrations

APPROVED

MMDadoda

4/19/2019 2:46:40 PM



#6

Chloroethane

Concen: 0.750 ug/l

RT: 2.71 min Scan# 290

Delta R.T. 0.01 min

Lab File: VN055073.D

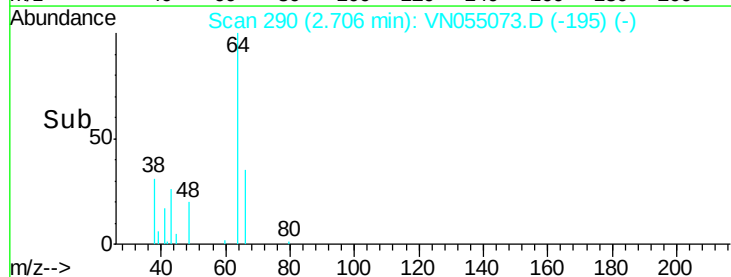
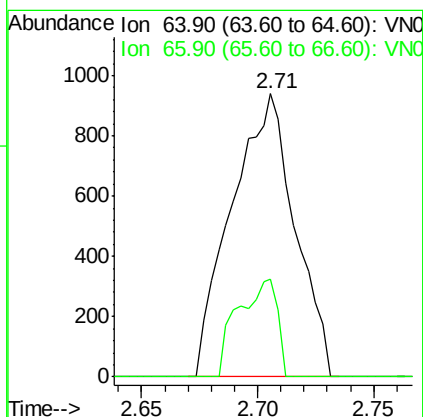
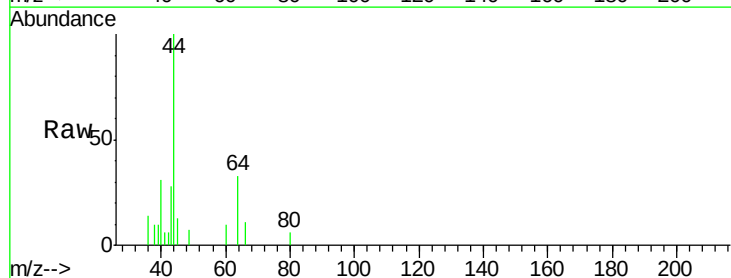
Acq: 16 Apr 2019 12:55

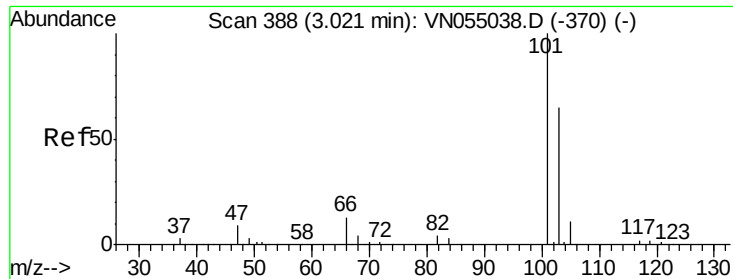
Tgt Ion: 64 Resp: 1780

Ion Ratio Lower Upper

64 100

66 34.5 26.6 40.0





#7

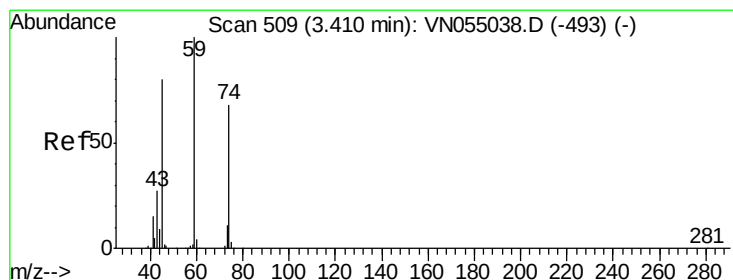
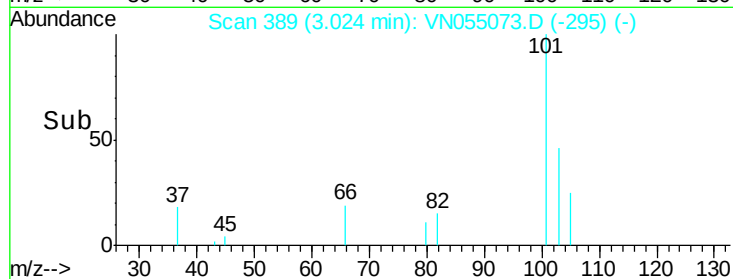
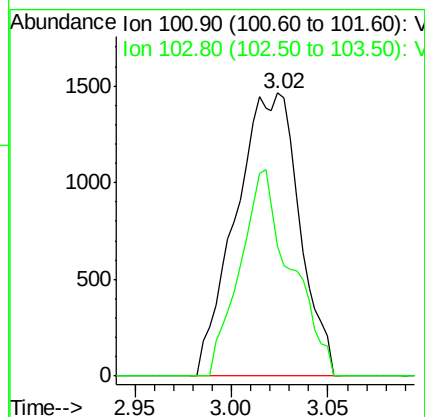
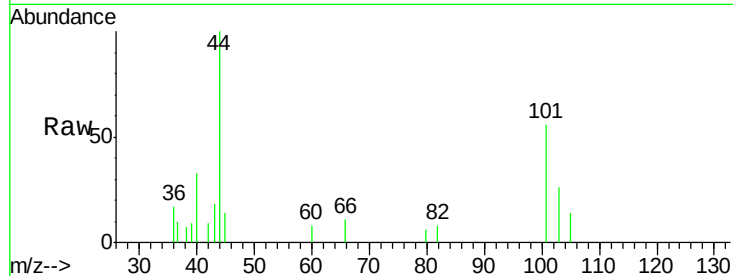
Trichlorofluoromethane
 Concen: 0.609 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. 0.00 min
 Lab File: VN055073.D
 Acq: 16 Apr 2019 12:55

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT2-2019

Tot Ion:101 Resp: 3352
 Ion Ratio Lower Upper
 101 100
 103 46.0 52.5 78.7#

Manual Integrations
 APPROVED

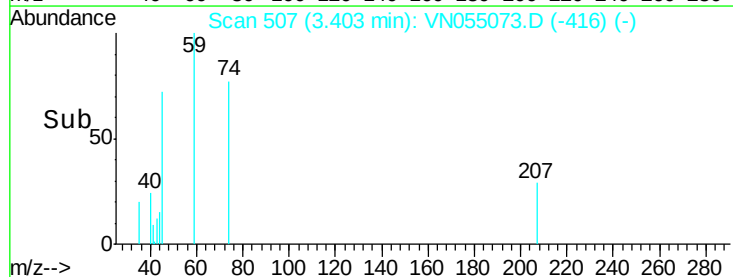
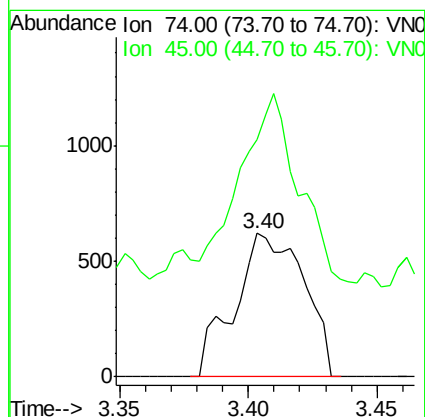
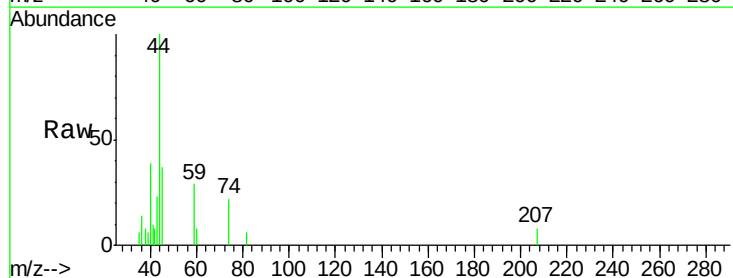
MMDadoda
 4/19/2019 2:46:40 PM

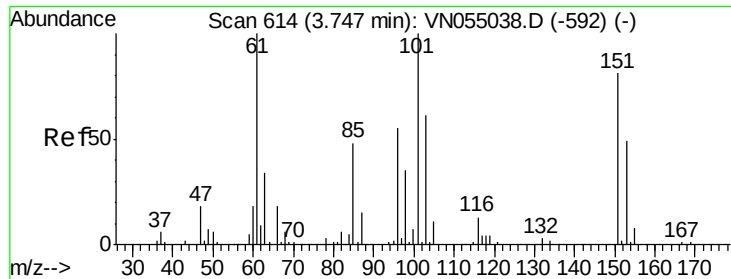


#8

Diethyl Ether
 Concen: 0.664 ug/l
 RT: 3.40 min Scan# 507
 Delta R.T. -0.01 min
 Lab File: VN055073.D
 Acq: 16 Apr 2019 12:55

Tgt Ion: 74 Resp: 1167
 Ion Ratio Lower Upper
 74 100
 45 111.3 55.7 167.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.677 ug/l

RT: 3.74 min Scan# 613

Delta R.T. -0.00 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

Instrument :

MSVOA_N

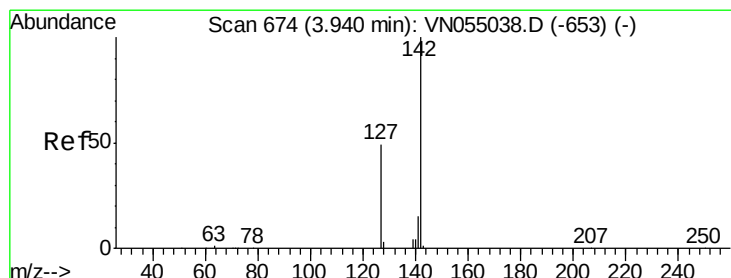
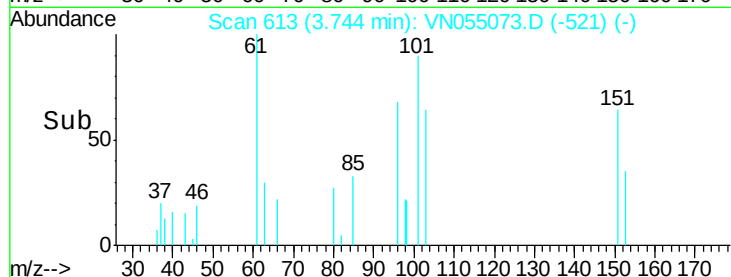
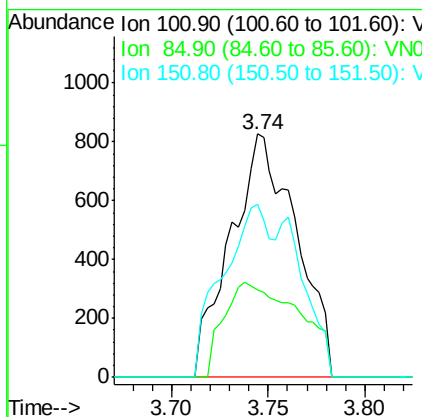
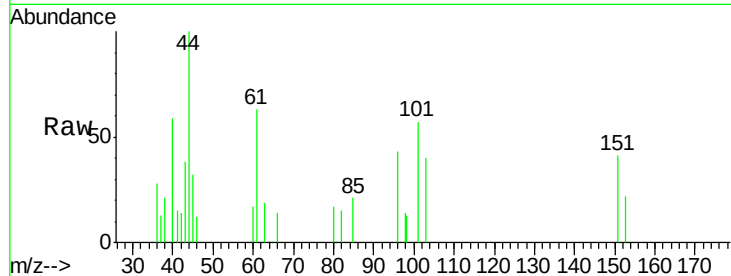
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	101	Resp:	1949
Ion Ratio	Lower	Upper	
101	100		
85	44.9	36.9	55.3
151	54.3	64.4	96.6#

Manual Integrations
APPROVED

MMDadoda
4/19/2019 2:46:40 PM



#10

Methyl Iodide

Concen: 2.211 ug/l

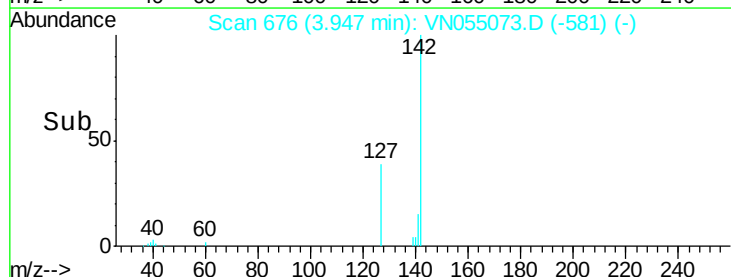
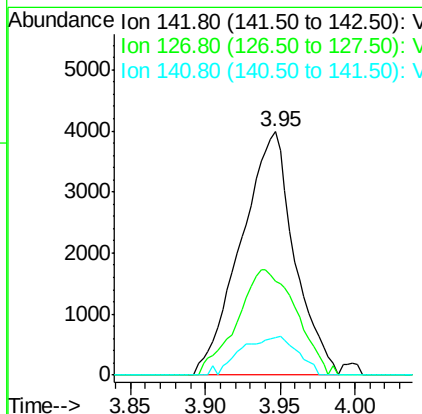
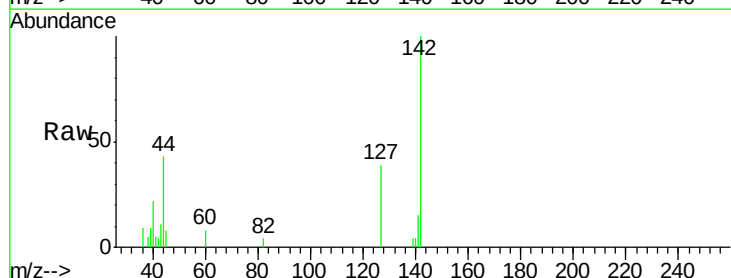
RT: 3.95 min Scan# 676

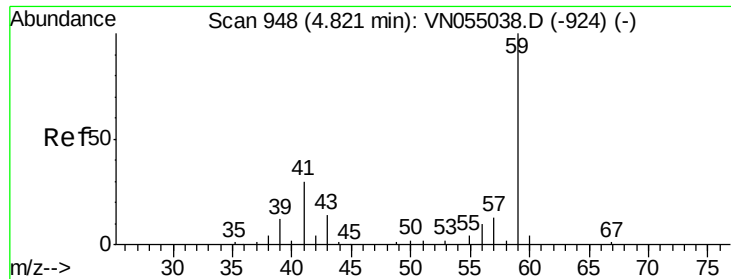
Delta R.T. 0.01 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

Tgt Ion:	142	Resp:	9884
Ion Ratio	Lower	Upper	
142	100		
127	48.0	37.9	56.9
141	16.7	11.8	17.8





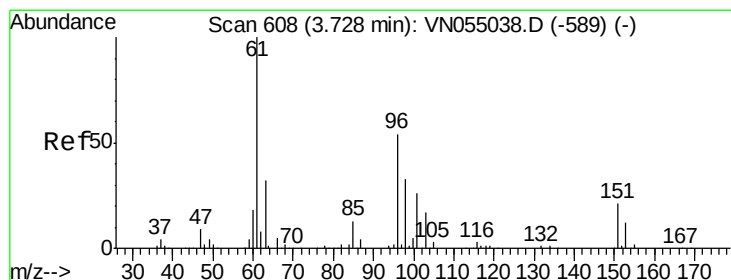
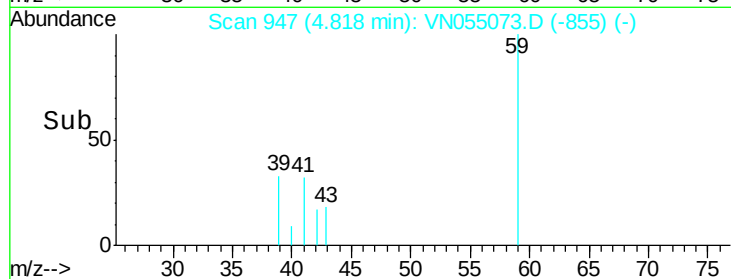
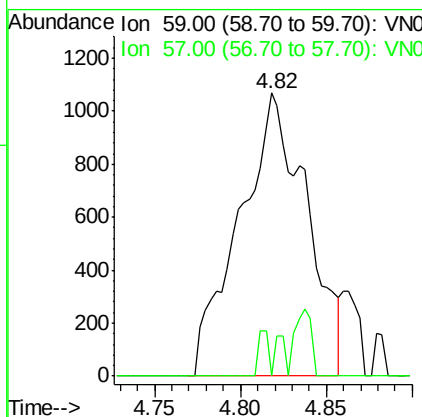
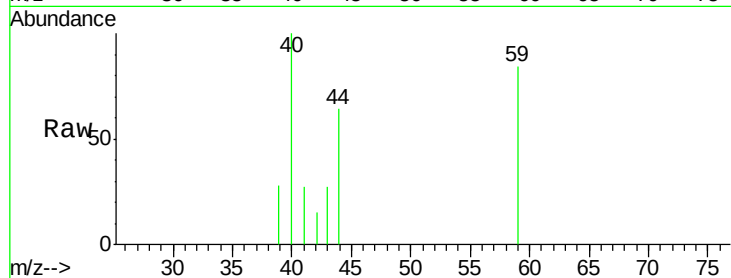
#11
Tert butyl alcohol
Concen: 11.289 ug/l
RT: 4.82 min Scan# 947
Delta R.T. -0.00 min
Lab File: VN055073.D
Acq: 16 Apr 2019 12:55

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

Tot Ion: 59 Resp: 2906
Ion Ratio Lower Upper
59 100
57 2.2 8.3 12.5#

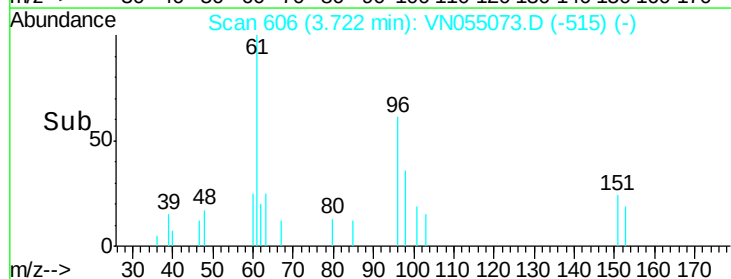
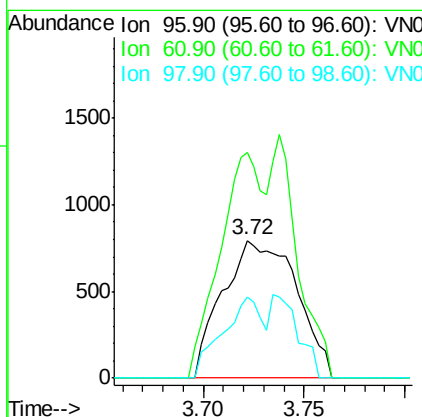
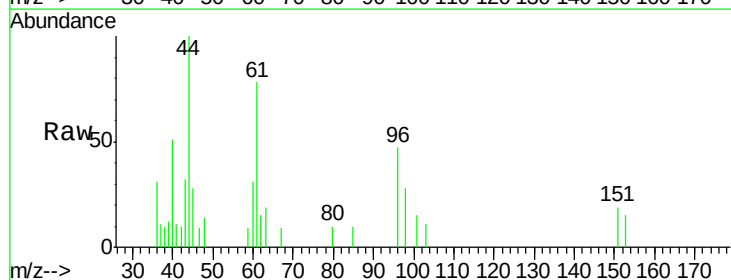
Manual Integrations
APPROVED

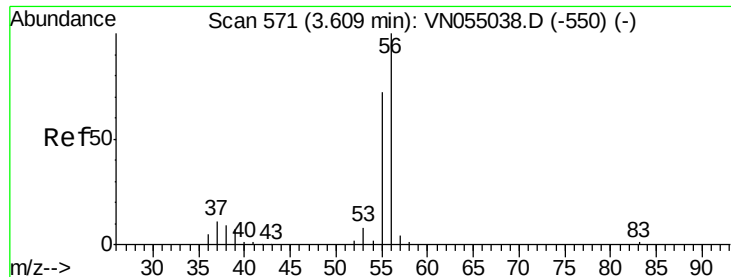
MMDadoda
4/19/2019 2:46:40 PM



#12
1,1-Dichloroethene
Concen: 0.722 ug/l
RT: 3.72 min Scan# 606
Delta R.T. -0.01 min
Lab File: VN055073.D
Acq: 16 Apr 2019 12:55

Tgt Ion: 96 Resp: 2025
Ion Ratio Lower Upper
96 100
61 164.5 154.2 231.4
98 58.9 52.9 79.3





#13

Acrolein

Concen: 13.486 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.01 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 56 Resp: 4291

Ion Ratio Lower Upper

56 100

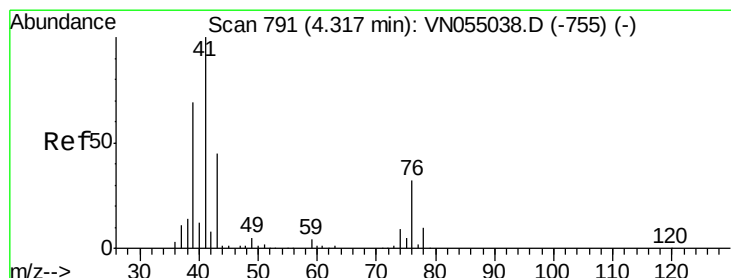
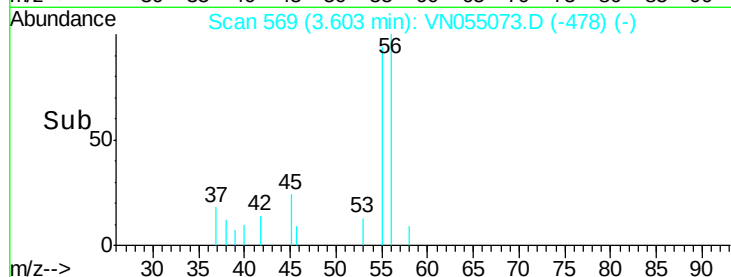
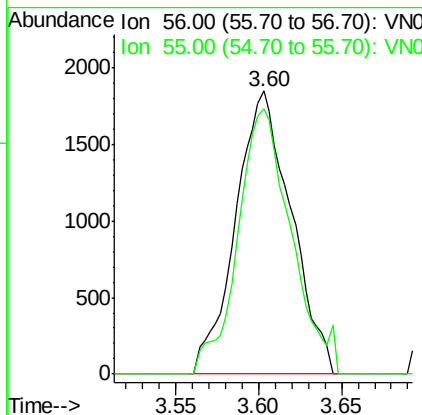
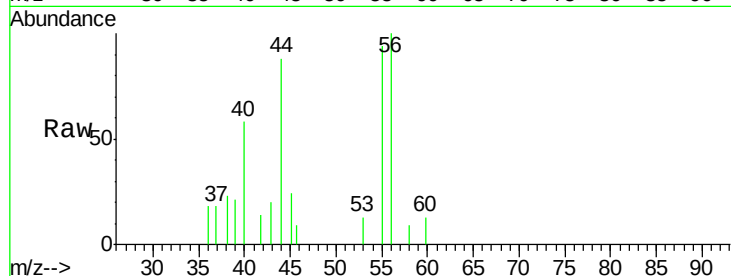
55 90.1 59.5 89.3#

Manual Integrations

APPROVED

MMDadoda

4/19/2019 2:46:40 PM



#14

Allyl chloride

Concen: 0.646 ug/l m

RT: 4.31 min Scan# 790

Delta R.T. -0.00 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

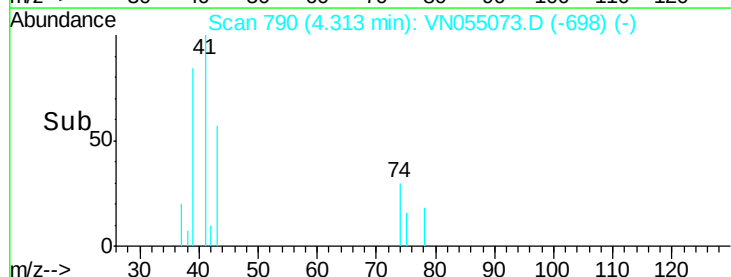
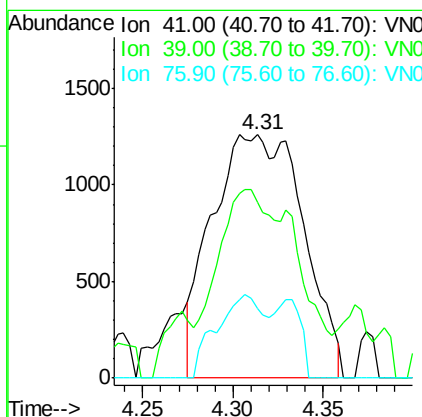
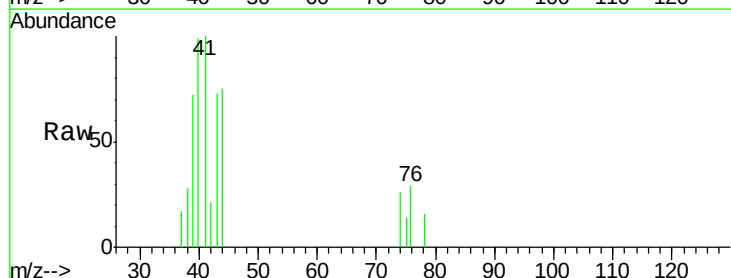
Tgt Ion: 41 Resp: 4434

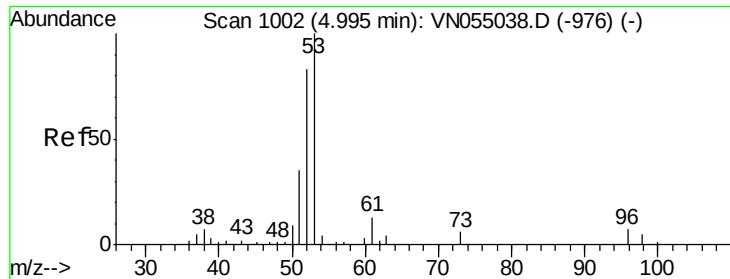
Ion Ratio Lower Upper

41 100

39 32.0 52.7 79.1#

76 17.8 23.2 34.8#





#15

Acrylonitrile

Concen: 3.093 ug/l m

RT: 5.00 min Scan# 1005

Delta R.T. 0.01 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

Instrument :

MSVOA_N

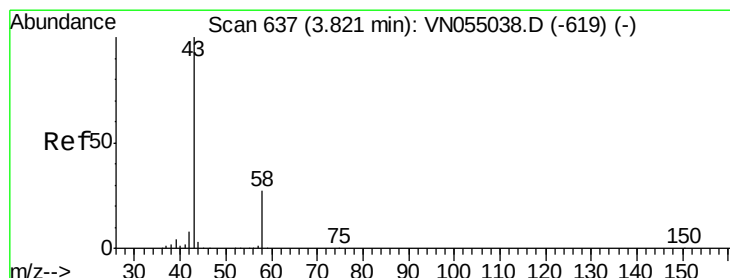
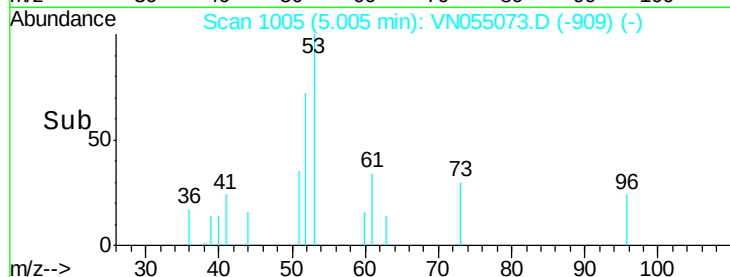
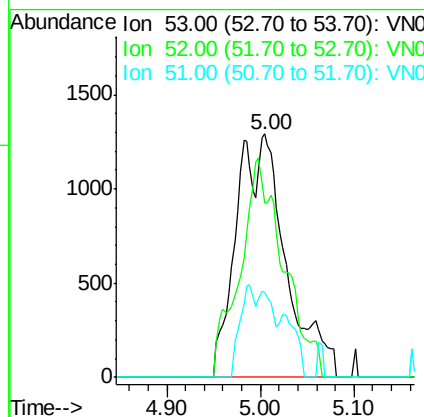
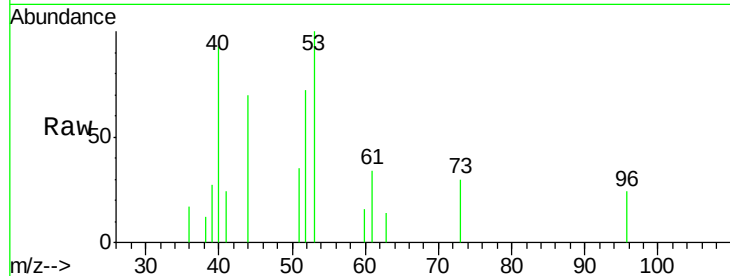
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	53	Resp:	4763
Ion	Ratio	Lower	Upper
53	100		
52	79.0	65.9	98.9
51	0.0	29.7	44.5#

Manual Integrations
APPROVED

MMDadoda
4/19/2019 2:46:40 PM



#16

Acetone

Concen: 4.073 ug/l

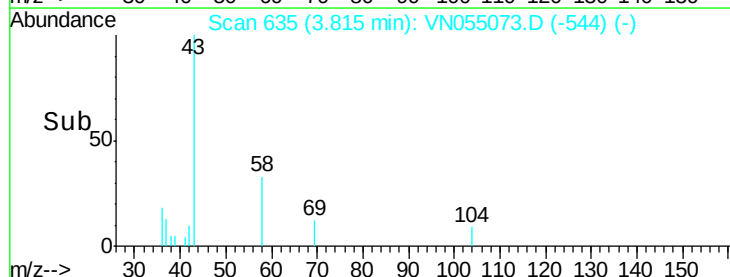
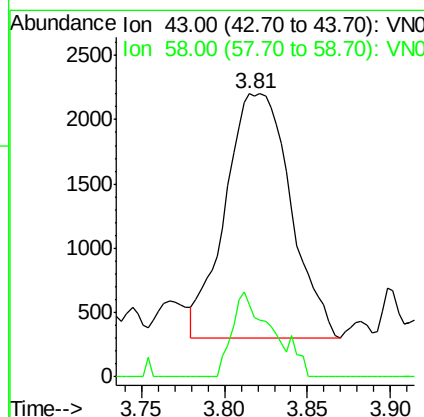
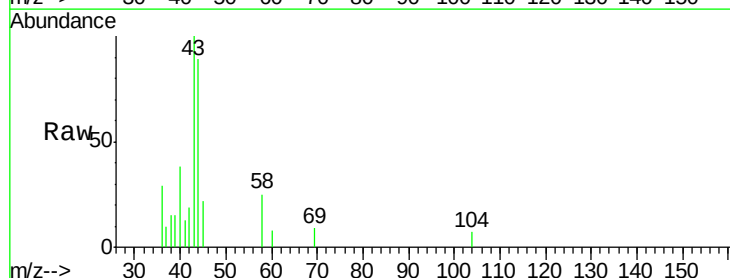
RT: 3.81 min Scan# 635

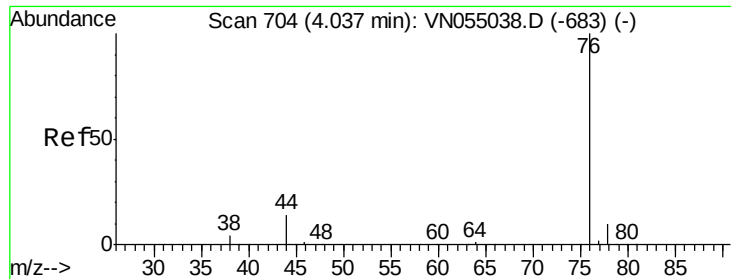
Delta R.T. -0.01 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

Tgt Ion:	43	Resp:	5192
Ion	Ratio	Lower	Upper
43	100		
58	29.6	20.9	31.3





#17

Carbon Disulfide

Concen: 0.724 ug/l

RT: 4.04 min Scan# 704

Delta R.T. -0.00 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 76 Resp: 6557

Ion Ratio Lower Upper

76 100

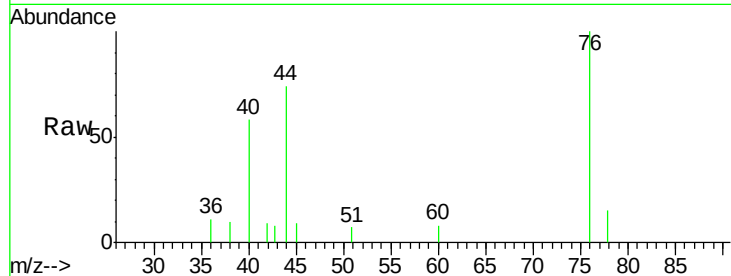
78 14.6 7.2 10.8#

Manual Integrations

APPROVED

MMDadoda

4/19/2019 2:46:40 PM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.04

2500

2000

1500

1000

500

0

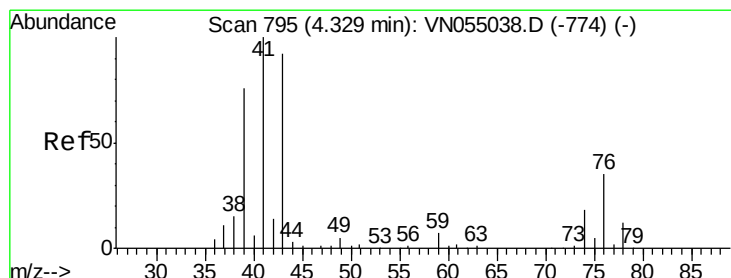
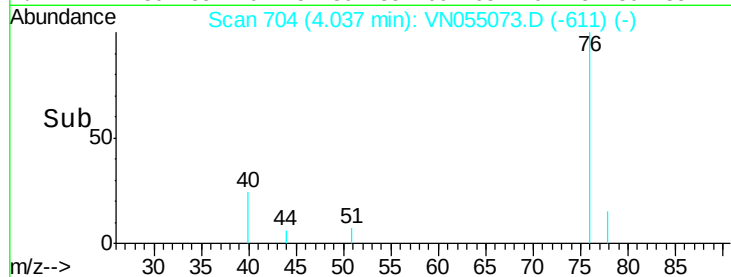
3.95

4.00

4.05

4.10

Time-->



#18

Methyl Acetate

Concen: 0.861 ug/l m

RT: 4.34 min Scan# 798

Delta R.T. 0.01 min

Lab File: VN055073.D

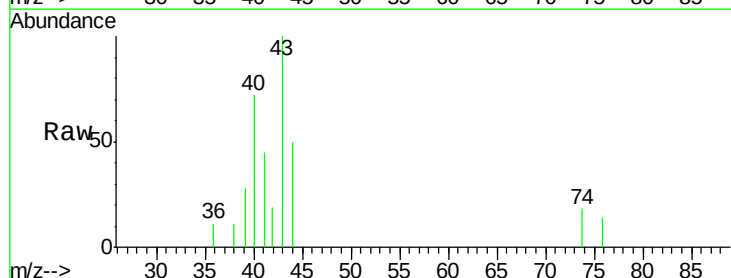
Acq: 16 Apr 2019 12:55

Tgt Ion: 43 Resp: 3521

Ion Ratio Lower Upper

43 100

74 16.1 16.1 24.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.34

2000

1500

1000

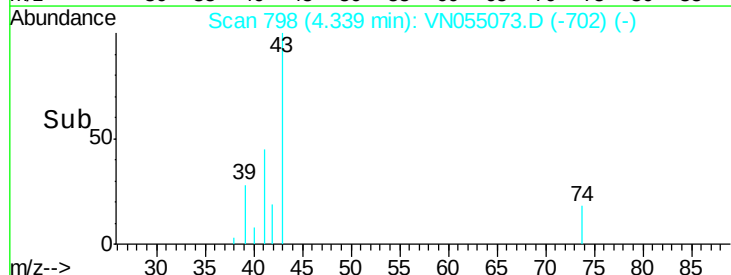
500

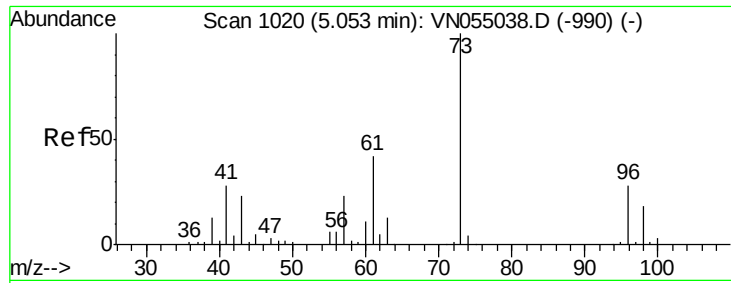
0

4.30

4.35

Time-->





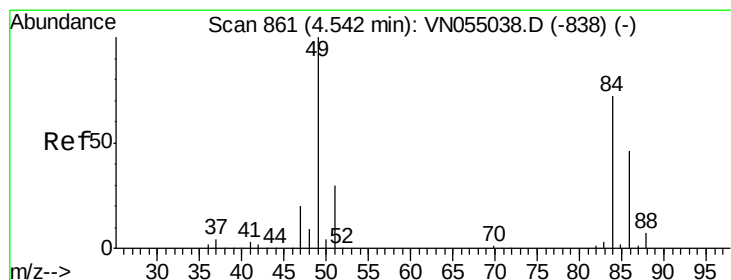
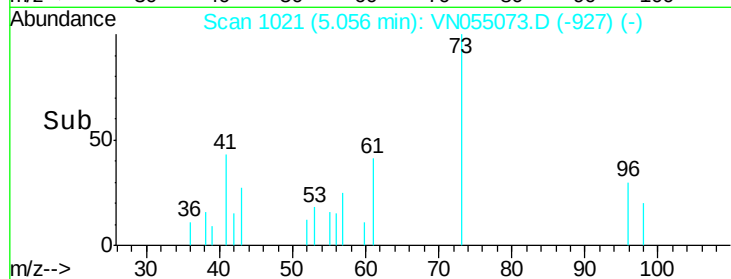
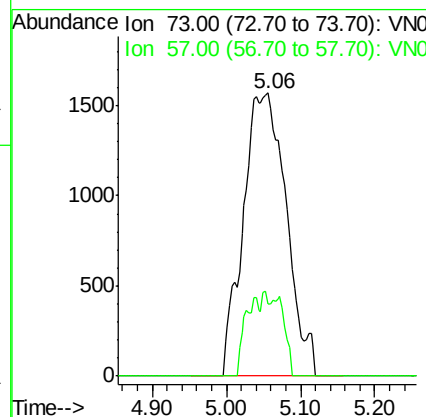
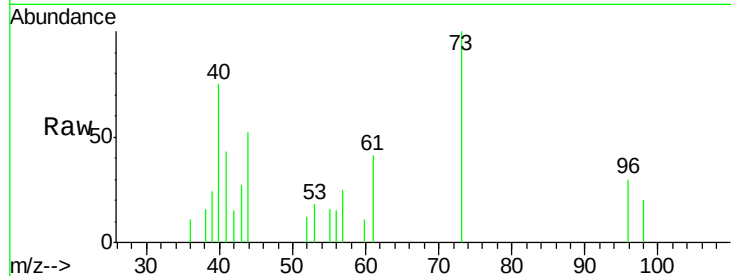
#19
Methyl tert-butyl Ether
Concen: 0.630 ug/l m
RT: 5.06 min Scan# 1021
Delta R.T. 0.00 min
Lab File: VN055073.D
Acq: 16 Apr 2019 12:55

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

Tot Ion: 73 Resp: 6317
Ion Ratio Lower Upper
73 100
57 25.4 19.0 28.4

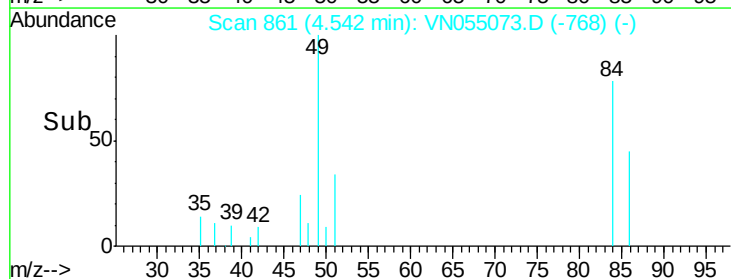
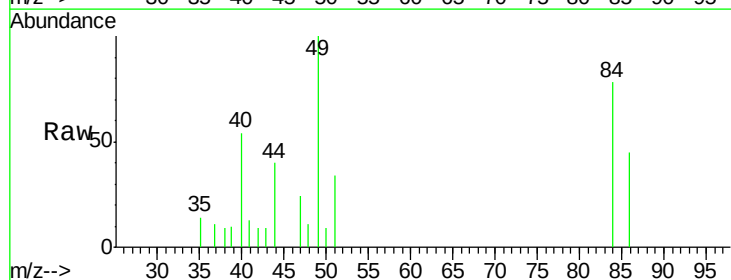
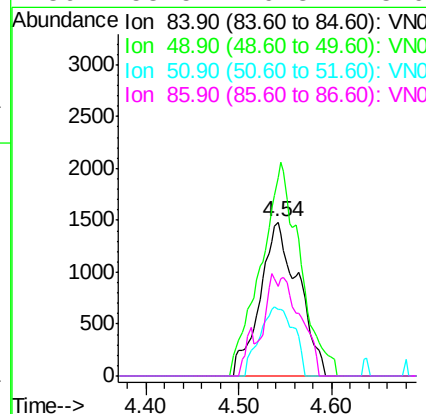
Manual Integrations
APPROVED

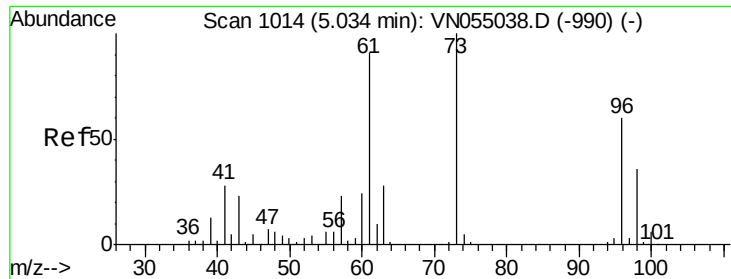
MMDadoda
4/19/2019 2:46:40 PM



#20
Methylene Chloride
Concen: 0.948 ug/l m
RT: 4.54 min Scan# 861
Delta R.T. -0.00 min
Lab File: VN055073.D
Acq: 16 Apr 2019 12:55

Tgt Ion: 84 Resp: 4247
Ion Ratio Lower Upper
84 100
49 128.8 109.4 164.2
51 43.4 32.2 48.4
86 58.5 49.3 73.9





#21

trans-1,2-Dichloroethene

Concen: 0.658 ug/l m

RT: 5.03 min Scan# 1013

Delta R.T. -0.00 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

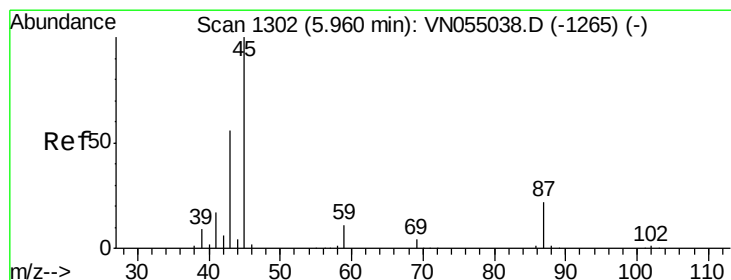
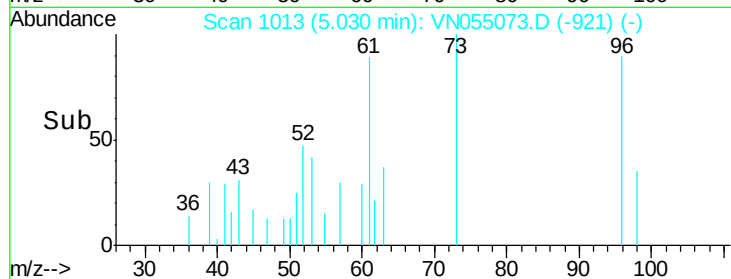
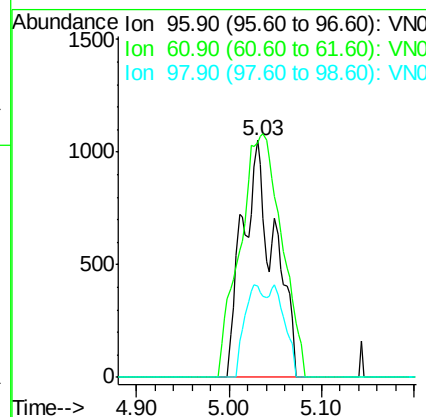
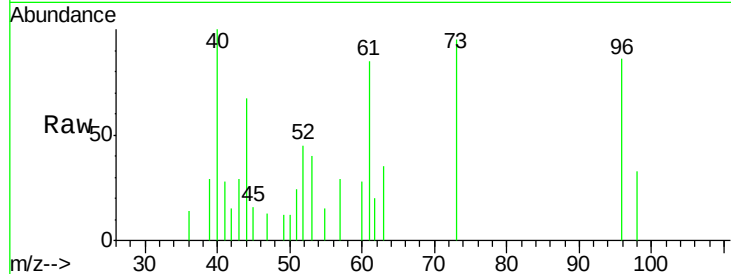
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

Tot Ion: 96 Resp: 2494

Ion	Ratio	Lower	Upper
96	100		
61	99.0	114.9	172.3#
98	38.6	48.4	72.6#

Manual Integrations
APPROVED

MMDadoda
4/19/2019 2:46:40 PM



#22

Diisopropyl ether

Concen: 0.583 ug/l

RT: 5.96 min Scan# 1302

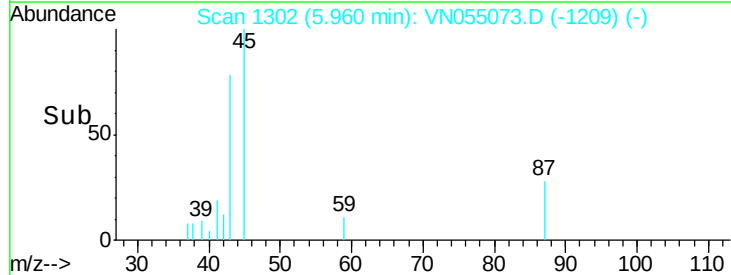
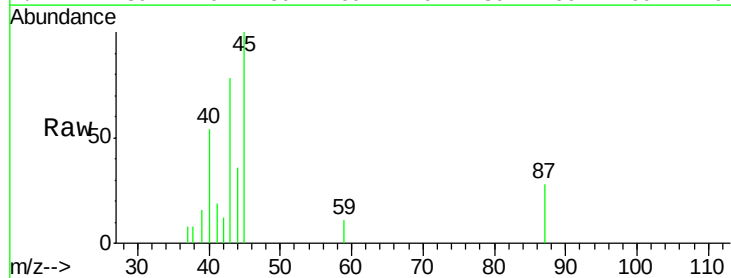
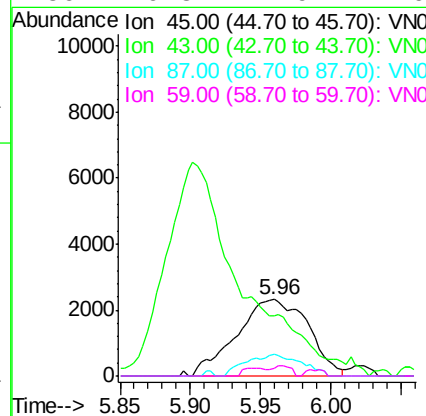
Delta R.T. -0.00 min

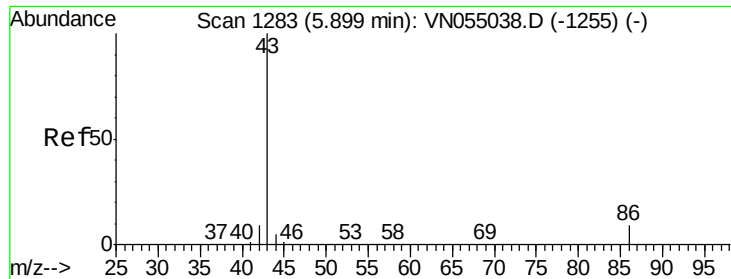
Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

Tgt Ion: 45 Resp: 8231

Ion	Ratio	Lower	Upper
45	100		
43	60.2	44.8	67.2
87	28.1	18.9	28.3
59	10.8	7.9	11.9





#23

Vinyl Acetate

Concen: 2.602 ug/l

RT: 5.90 min Scan# 1284

Delta R.T. 0.00 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 43 Resp: 24269

Ion Ratio Lower Upper

43 100

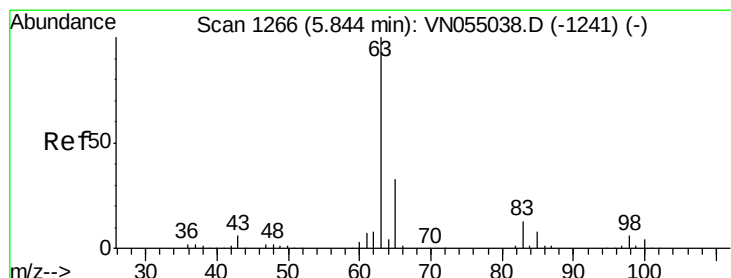
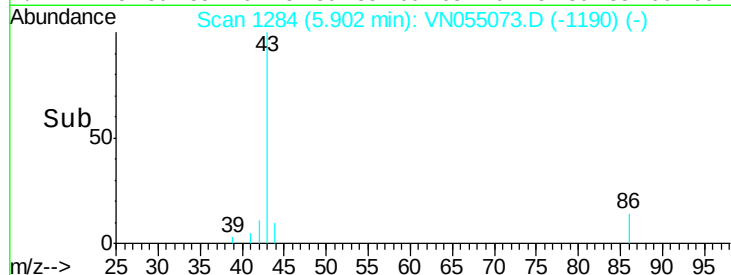
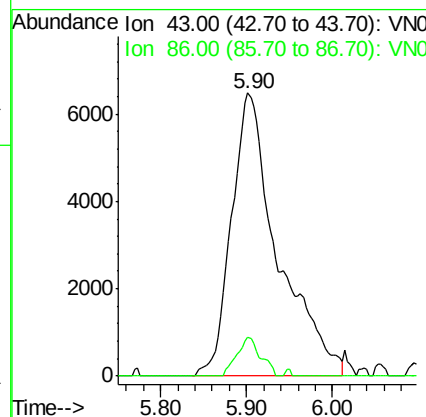
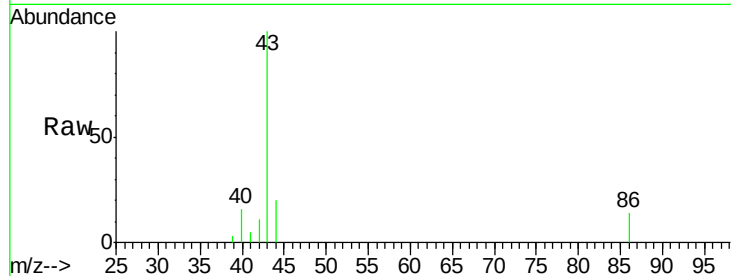
86 13.9 7.0 10.4#

Manual Integrations

APPROVED

MMDadoda

4/19/2019 2:46:40 PM



#24

1,1-Dichloroethane

Concen: 0.512 ug/l

RT: 5.84 min Scan# 1266

Delta R.T. -0.00 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

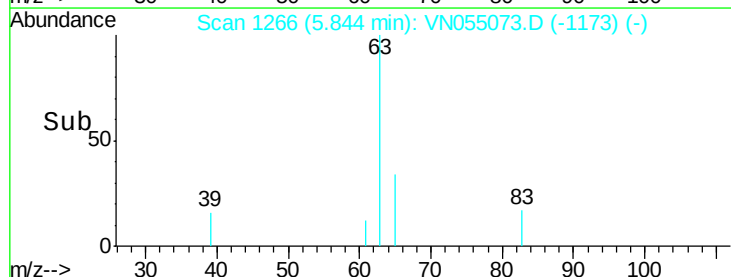
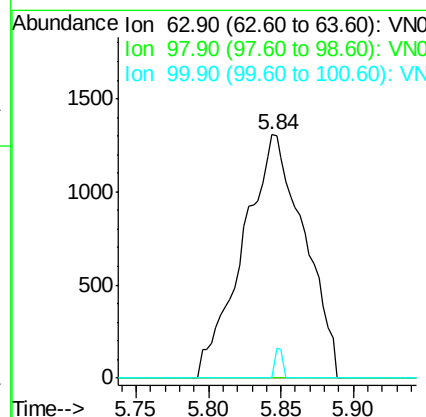
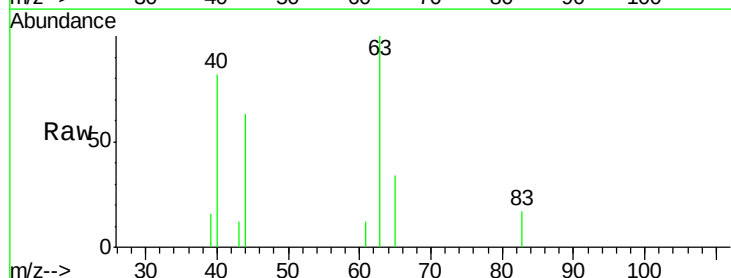
Tgt Ion: 63 Resp: 3848

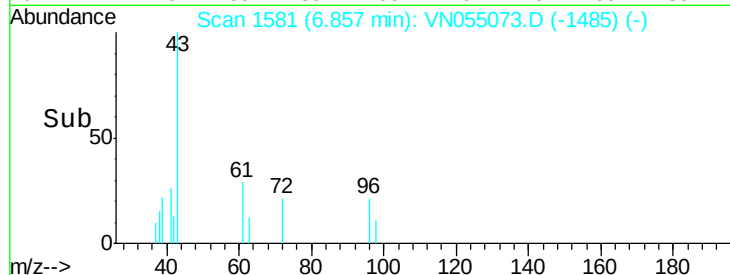
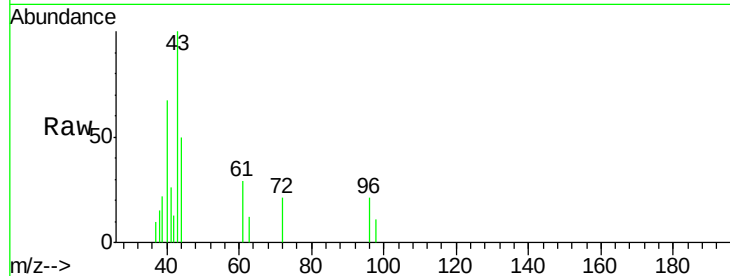
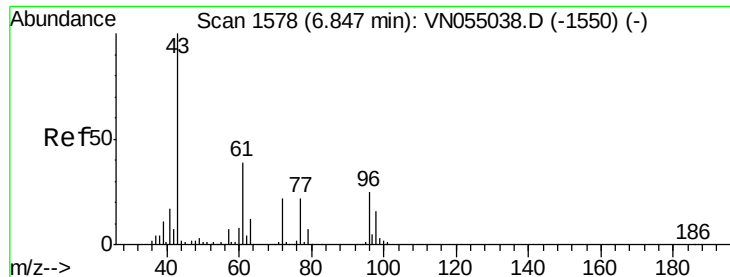
Ion Ratio Lower Upper

63 100

98 0.0 2.8 8.4#

100 0.0 2.0 5.8#





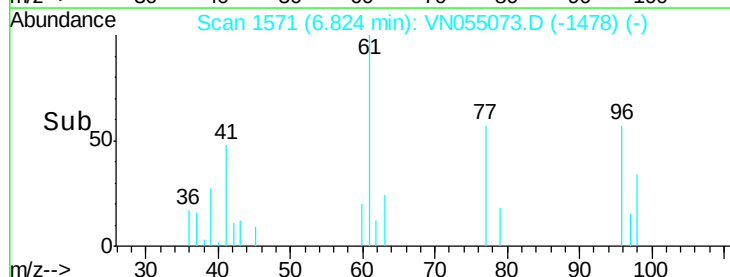
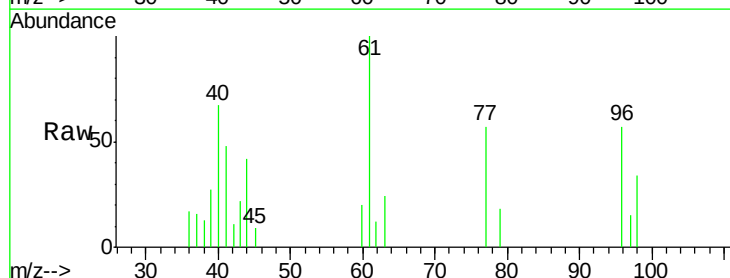
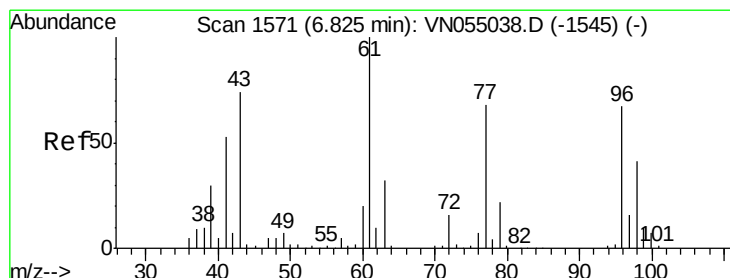
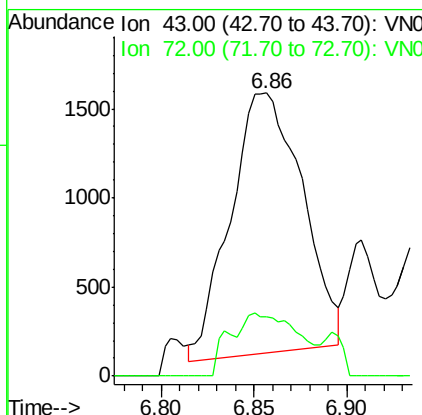
#25
2-Butanone
Concen: 2.076 ug/l
RT: 6.86 min Scan# 1581
Delta R.T. 0.01 min
Lab File: VN055073.D
Acq: 16 Apr 2019 12:55

Tot Ion: 43 Resp: 3950
Ion Ratio Lower Upper
43 100
72 23.5 18.1 27.1

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

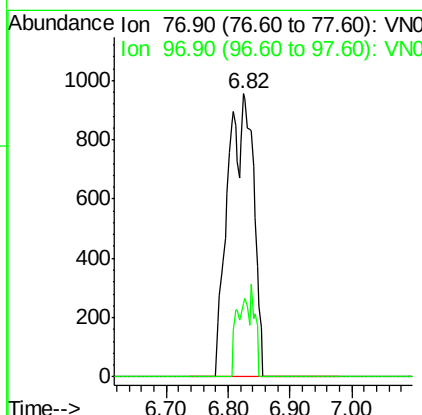
Manual Integrations
APPROVED

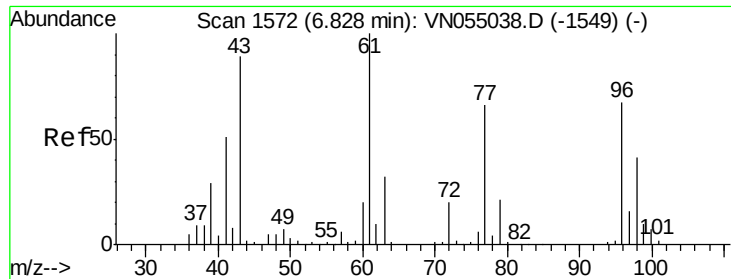
MMDadoda
4/19/2019 2:46:40 PM



#26
2,2-Dichloropropane
Concen: 0.579 ug/l m
RT: 6.82 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VN055073.D
Acq: 16 Apr 2019 12:55

Tgt Ion: 77 Resp: 2747
Ion Ratio Lower Upper
77 100
97 5.6 11.3 33.9#





#27

cis-1,2-Dichloroethene

Concen: 0.658 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

Instrument :

MSVOA_N

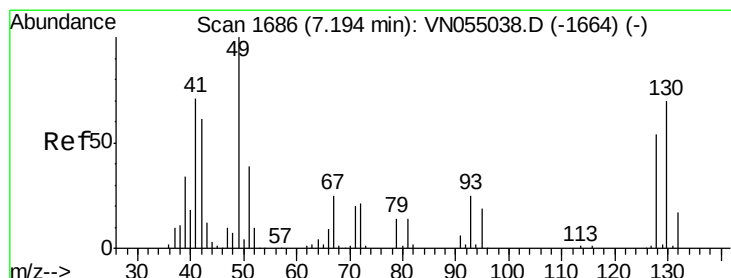
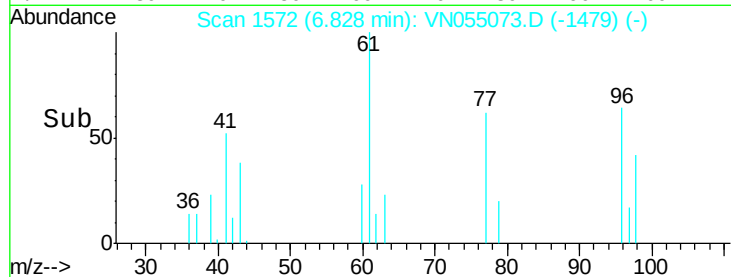
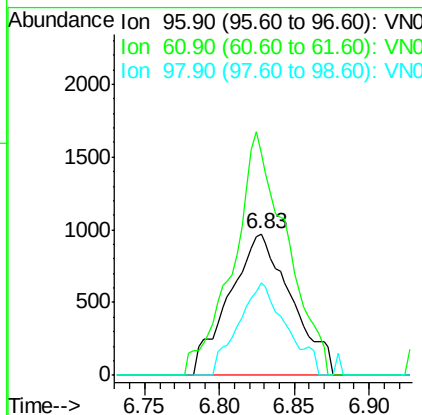
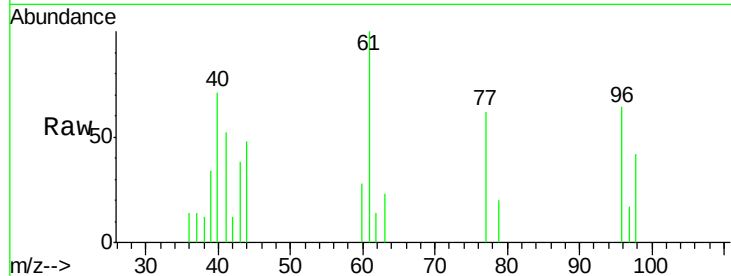
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	96	Resp:	2822
Ion	Ratio	Lower	Upper
96	100		
61	146.6	0.0	311.0
98	50.5	0.0	127.4

Manual Integrations
APPROVED

MMDadoda
4/19/2019 2:46:40 PM



#28

Bromochloromethane

Concen: 0.650 ug/l m

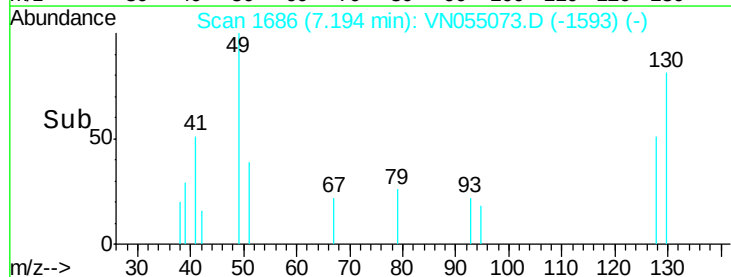
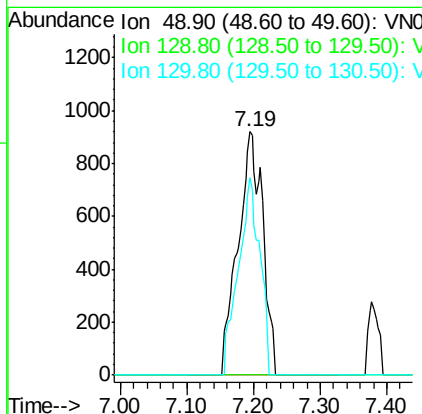
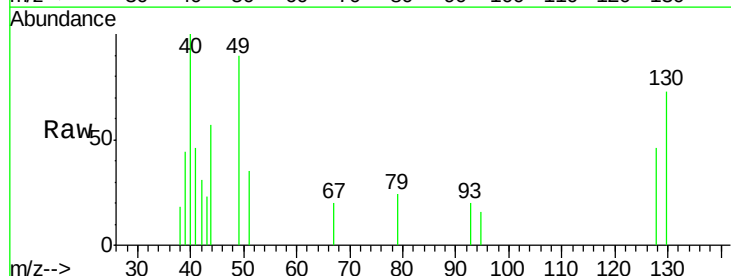
RT: 7.19 min Scan# 1686

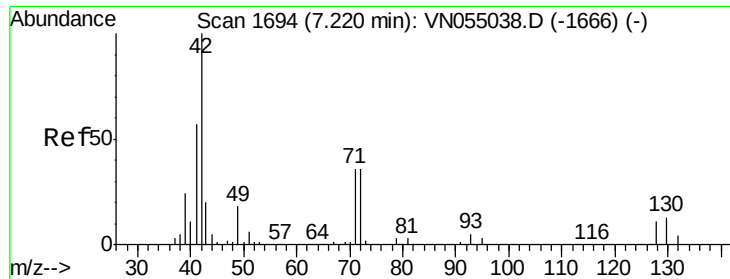
Delta R.T. -0.00 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

Tgt Ion:	49	Resp:	2356
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	2.0
130	70.3	53.4	80.2





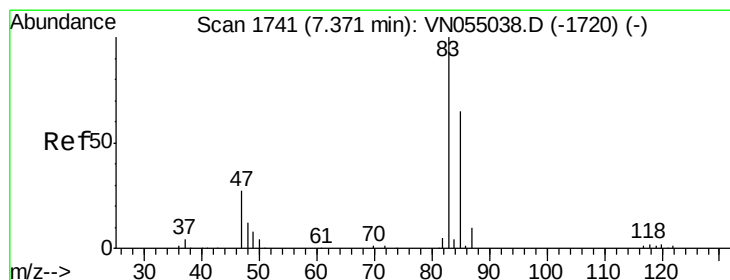
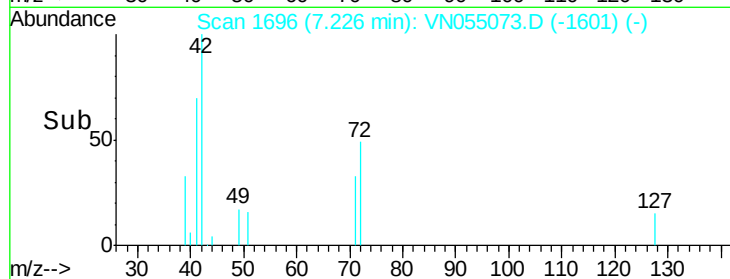
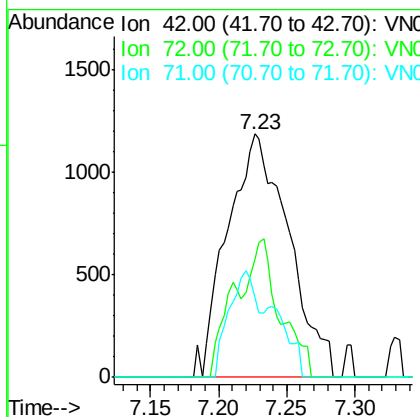
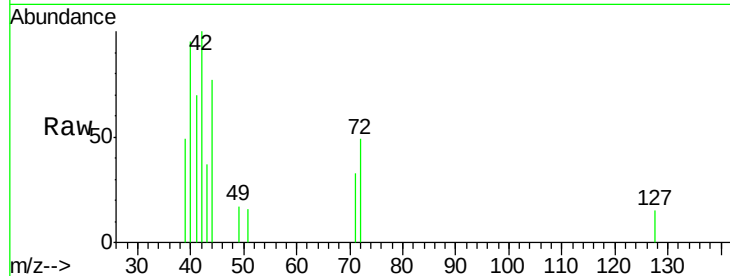
#29
Tetrahydrofuran
Concen: 2.962 ug/l
RT: 7.23 min Scan# 1696
Delta R.T. 0.01 min
Lab File: VN055073.D
Acq: 16 Apr 2019 12:55

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

Tot Ion	Ratio	Lower	Upper
42	100		
72	29.0	29.4	44.0#
71	21.1	27.8	41.6#

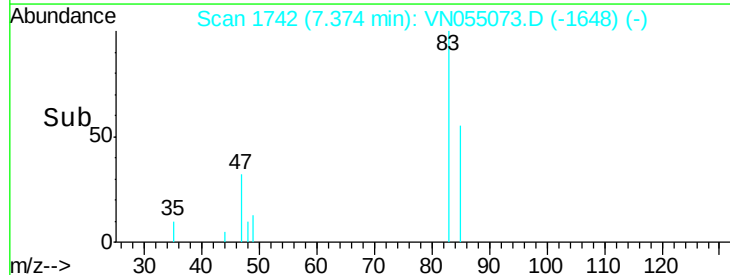
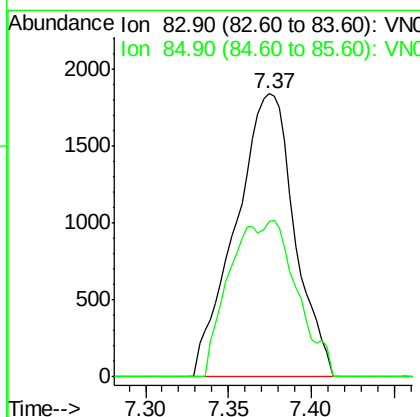
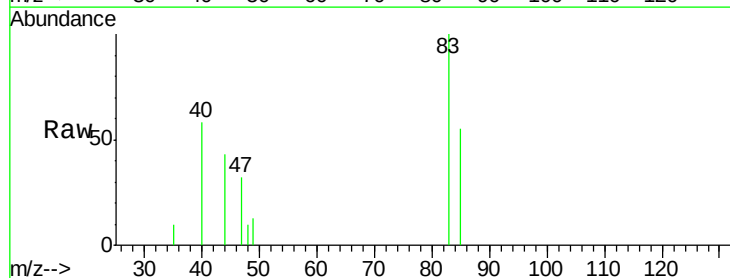
Manual Integrations
APPROVED

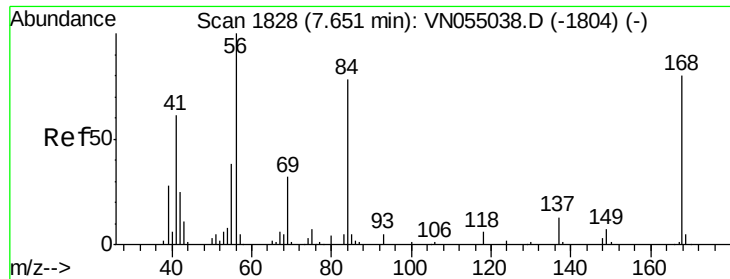
MMDadoda
4/19/2019 2:46:40 PM



#30
Chloroform
Concen: 0.624 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN055073.D
Acq: 16 Apr 2019 12:55

Tgt Ion	Ratio	Lower	Upper
83	100		
85	55.1	51.8	77.6





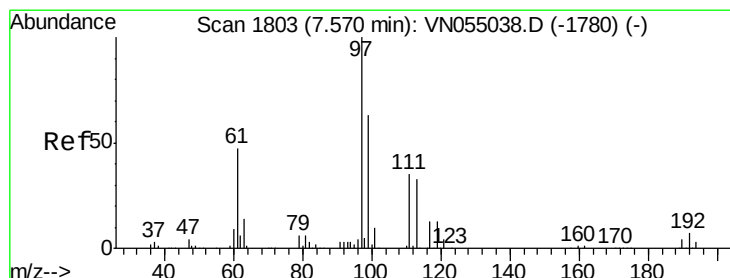
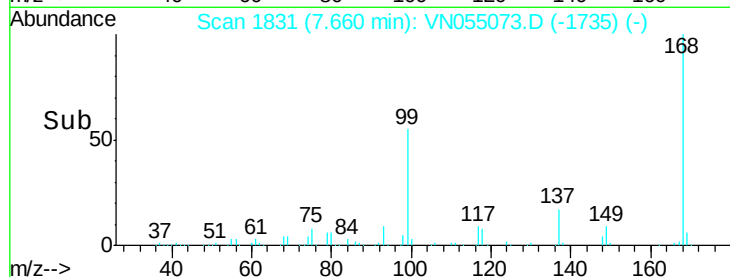
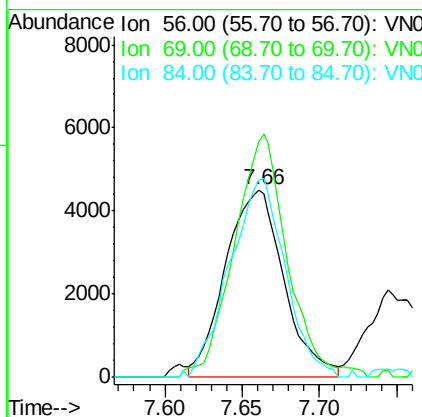
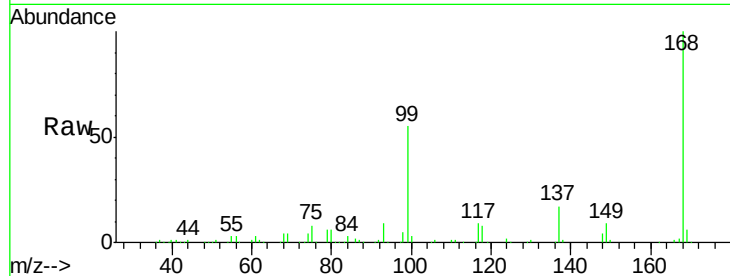
#31
Cyclohexane
Concen: 1.450 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN055073.D
Acq: 16 Apr 2019 12:55

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

Tot Ion	Ratio	Lower	Upper
56	100		
69	127.7	24.5	36.7#
84	111.3	62.9	94.3#

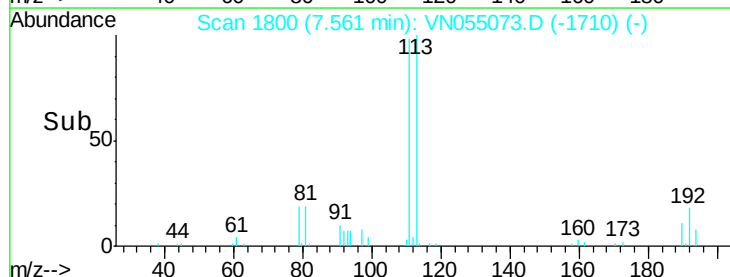
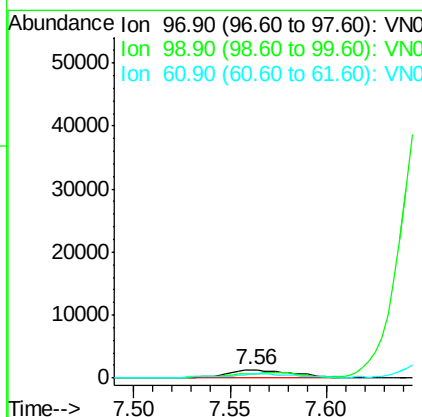
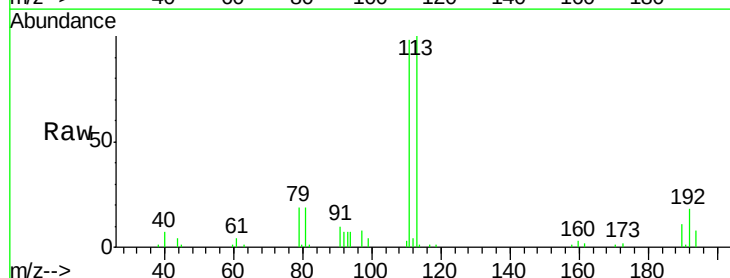
Manual Integrations
APPROVED

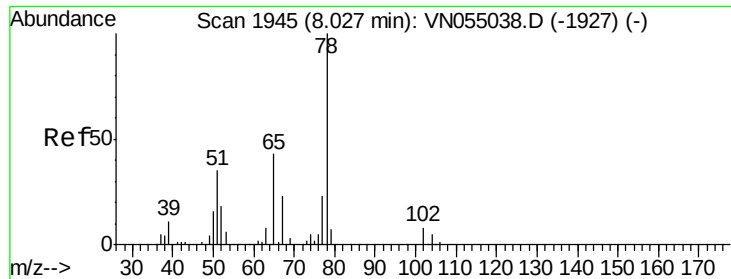
MMDadoda
4/19/2019 2:46:40 PM



#32
1,1,1-Trichloroethane
Concen: 0.533 ug/l
RT: 7.56 min Scan# 1800
Delta R.T. -0.01 min
Lab File: VN055073.D
Acq: 16 Apr 2019 12:55

Tgt Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.6	77.4#
61	23.8	38.3	57.5#





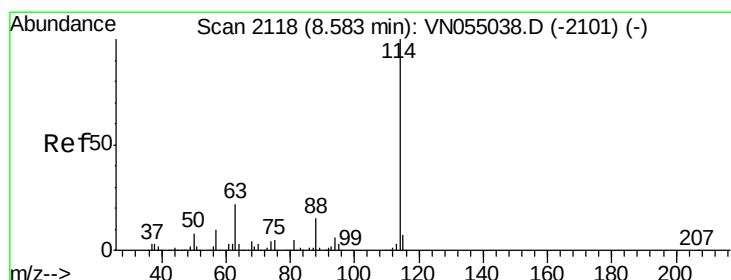
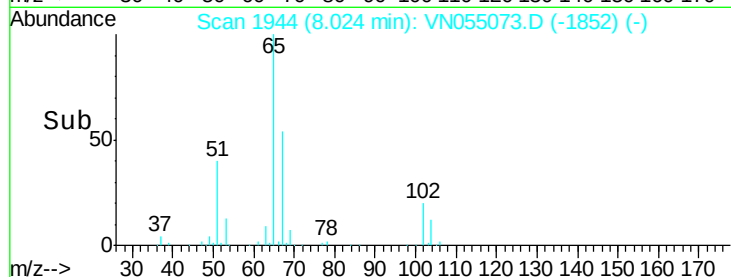
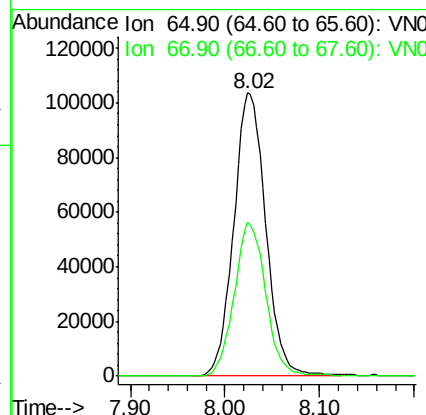
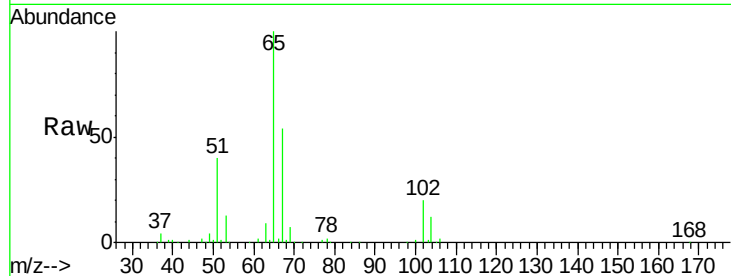
#33
 1,2-Dichloroethane-d4
 Concen: 51.767 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: VN055073.D
 Acq: 16 Apr 2019 12:55

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
65	100	243116		
67	53.2	0.0	106.4	

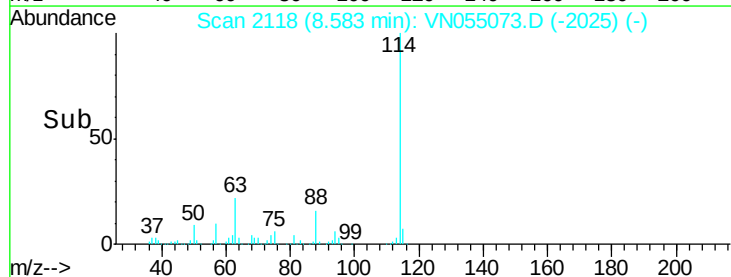
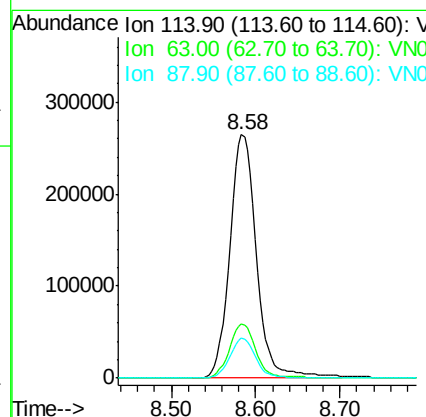
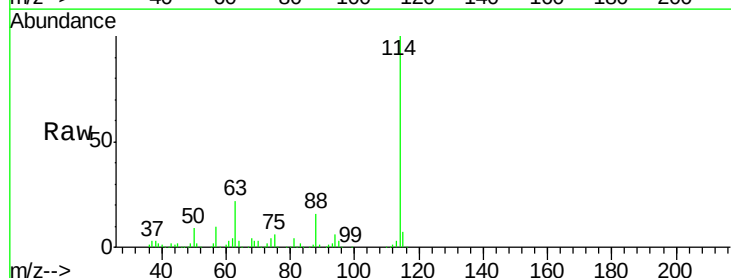
Manual Integrations
 APPROVED

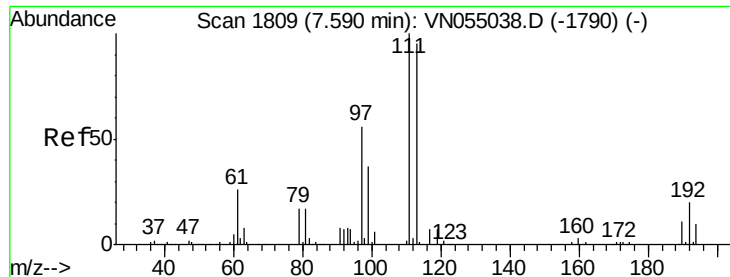
MMDadoda
 4/19/2019 2:46:40 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN055073.D
 Acq: 16 Apr 2019 12:55

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	582834		
63	22.1	0.0	45.2	
88	16.3	0.0	31.8	





#35

Dibromofluoromethane

Concen: 49.691 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

Instrument :

MSVOA_N

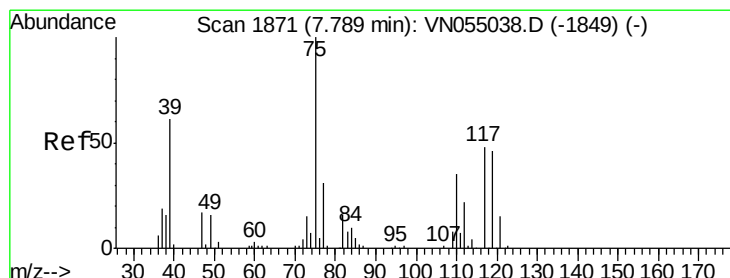
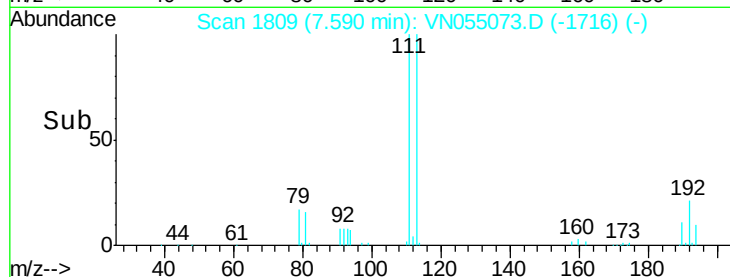
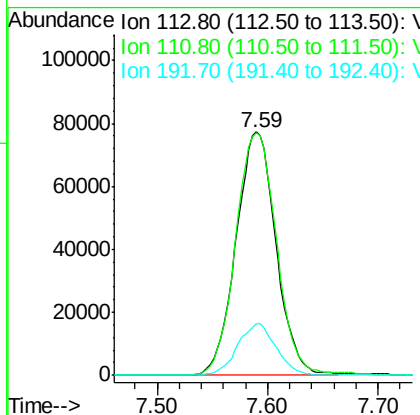
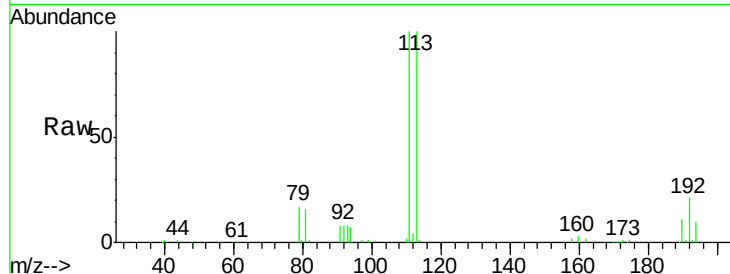
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	113	Resp:	193552
Ion Ratio	Lower	Upper	
113	100		
111	102.1	82.1	123.1
192	20.4	16.5	24.7

Manual Integrations
APPROVED

MMDadoda
4/19/2019 2:46:40 PM



#36

1,1-Dichloropropene

Concen: 0.502 ug/l

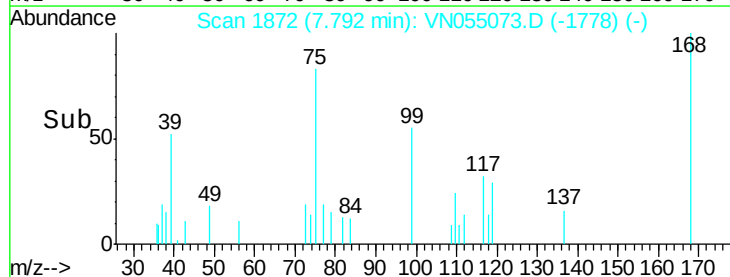
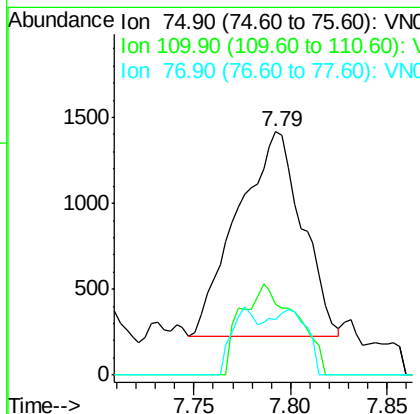
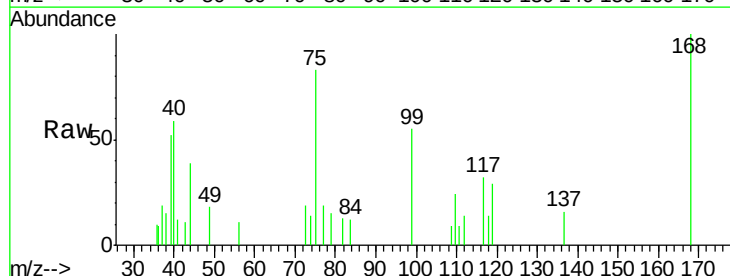
RT: 7.79 min Scan# 1872

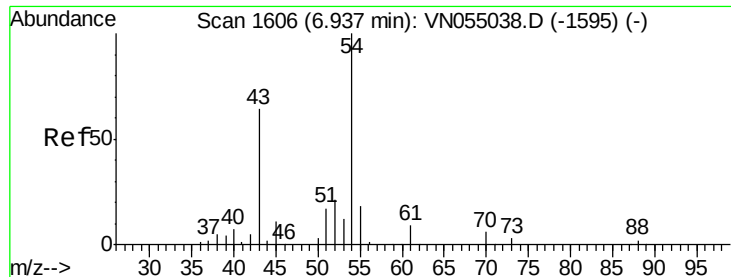
Delta R.T. 0.00 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

Tgt Ion:	75	Resp:	2760
Ion Ratio	Lower	Upper	
75	100		
110	38.2	17.5	52.5
77	12.6	24.9	37.3#





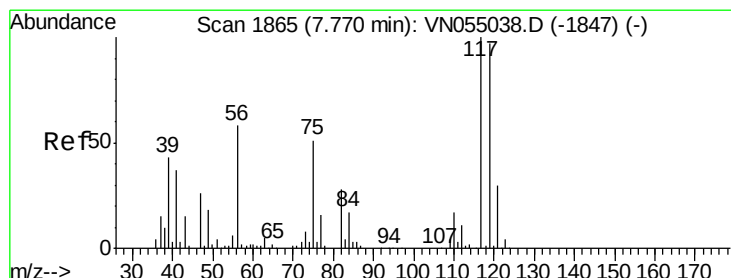
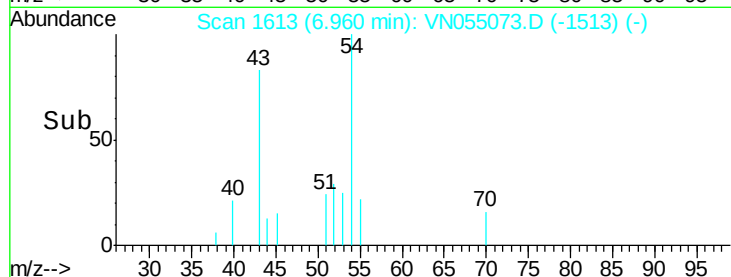
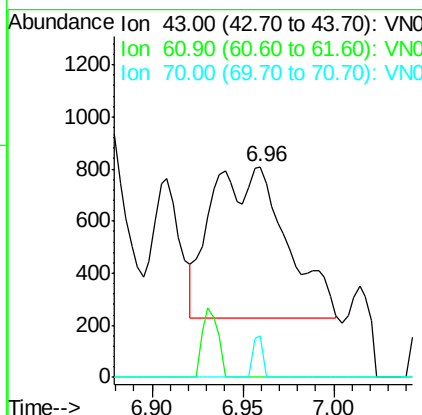
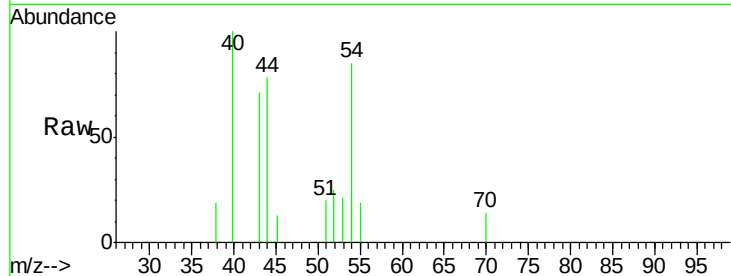
#37
Ethyl Acetate
Concen: 0.372 ug/l m
RT: 6.96 min Scan# 1613
Delta R.T. 0.02 min
Lab File: VN055073.D
Acq: 16 Apr 2019 12:55

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

Tot Ion:	43	Resp:	1662
Ion	Ratio	Lower	Upper
43	100		
61	9.6	10.0	15.0#
70	0.0	7.1	10.7#

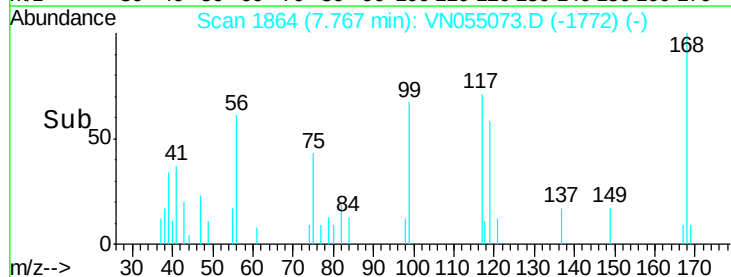
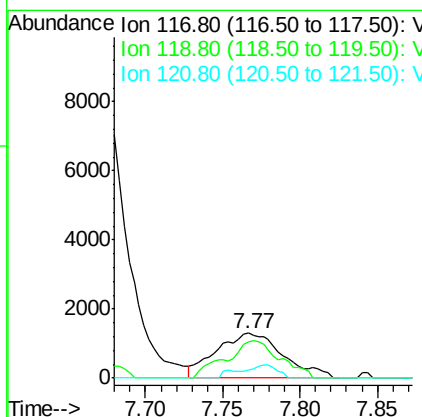
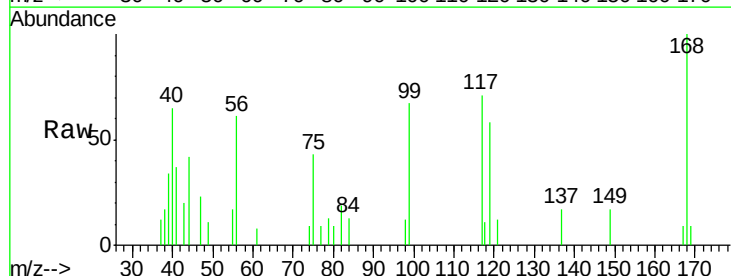
Manual Integrations
APPROVED

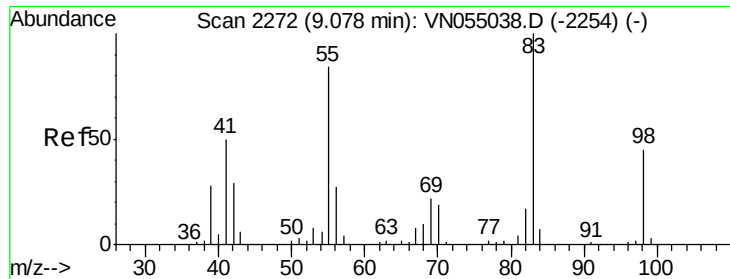
MMDadoda
4/19/2019 2:46:40 PM



#38
Carbon Tetrachloride
Concen: 0.752 ug/l
RT: 7.77 min Scan# 1864
Delta R.T. -0.00 min
Lab File: VN055073.D
Acq: 16 Apr 2019 12:55

Tgt Ion:	117	Resp:	3930
Ion	Ratio	Lower	Upper
117	100		
119	82.0	76.3	114.5
121	16.9	23.9	35.9#





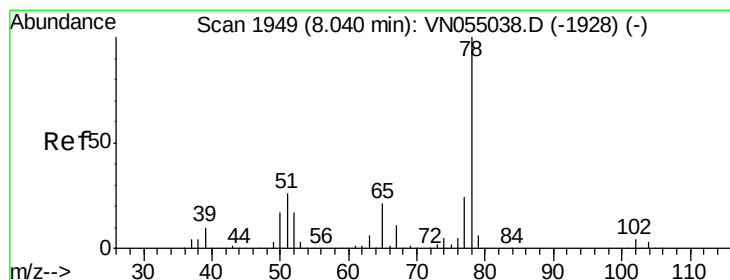
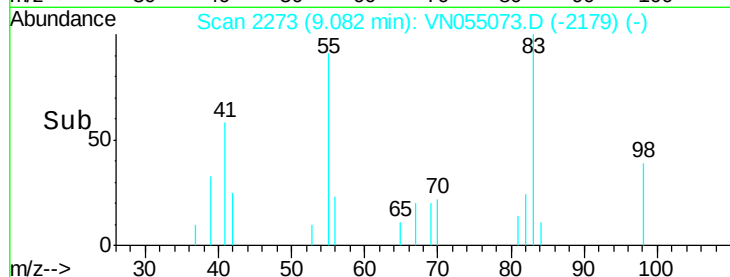
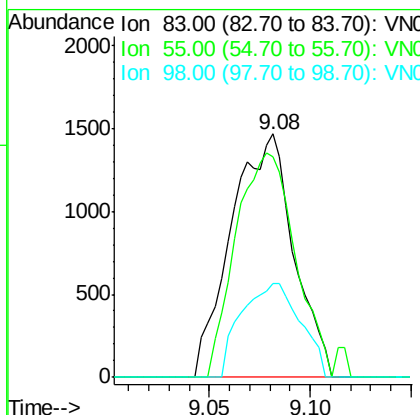
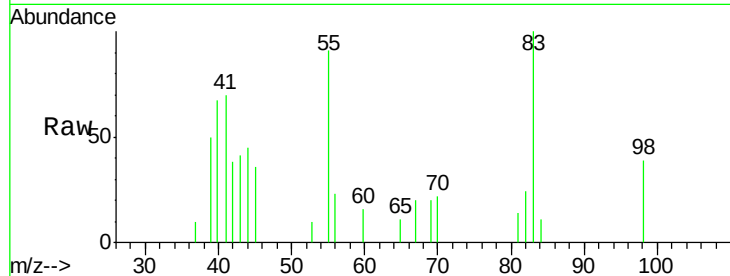
#39
Methylvlcyclohexane
Concen: 0.531 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN055073.D
Acq: 16 Apr 2019 12:55

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

Tot Ion	83	Resp:	3164
Ion	Ratio	Lower	Upper
83	100		
55	90.5	67.0	100.4
98	38.7	35.6	53.4

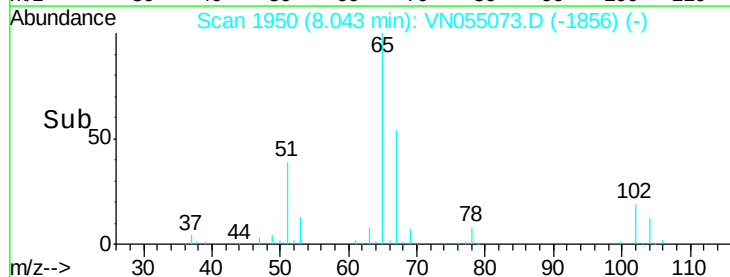
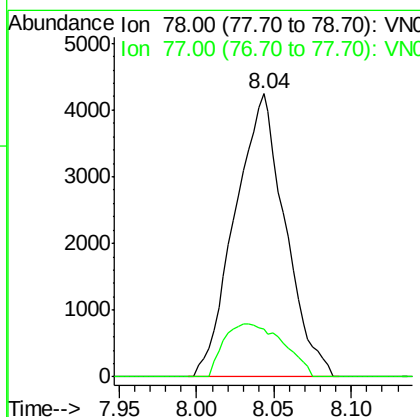
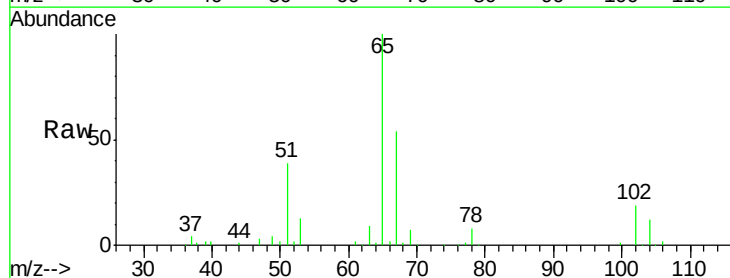
Manual Integrations
APPROVED

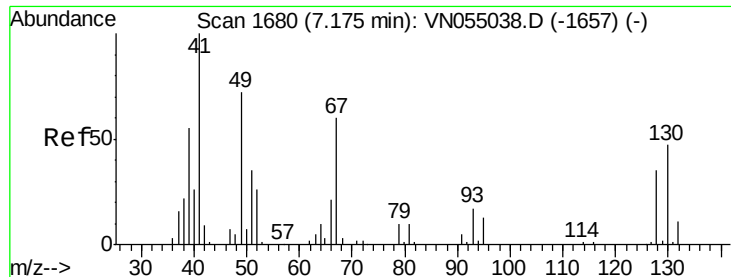
MMDadoda
4/19/2019 2:46:40 PM



#40
Benzene
Concen: 0.579 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN055073.D
Acq: 16 Apr 2019 12:55

Tgt Ion	78	Resp:	9589
Ion	Ratio	Lower	Upper
78	100		
77	17.1	18.8	28.2#





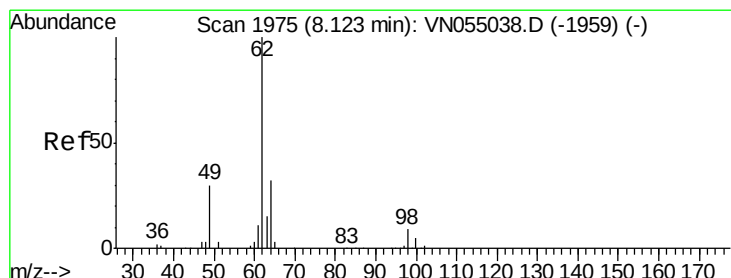
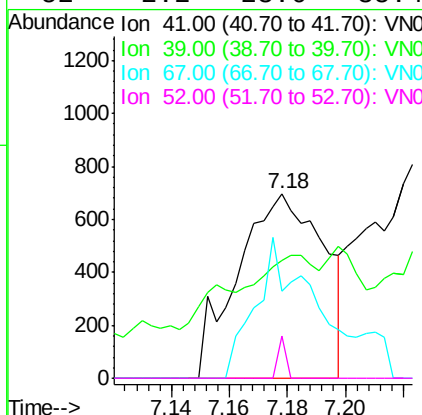
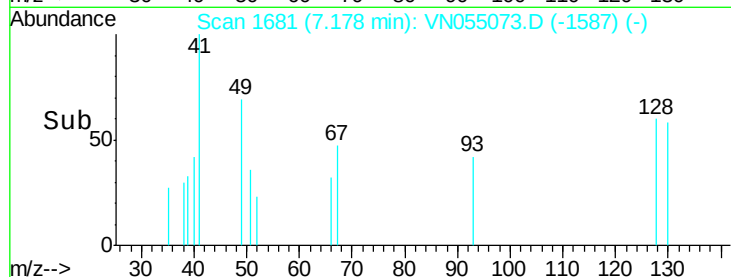
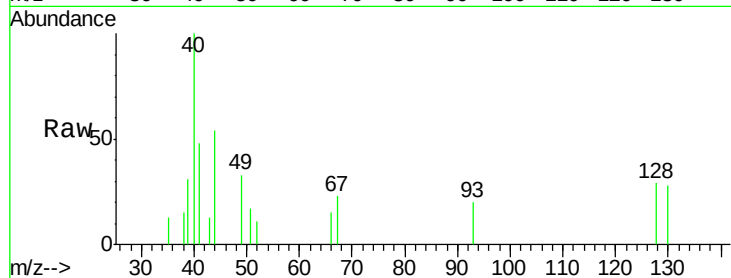
#41
Methacrylonitrile
Concen: 0.578 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN055073.D
Acq: 16 Apr 2019 12:55

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

Tot Ion:	41	Resp:	1434
Ion Ratio	Lower	Upper	
41	100		
39	0.0	45.6	68.4#
67	51.9	57.0	85.6#
52	2.2	23.6	35.4#

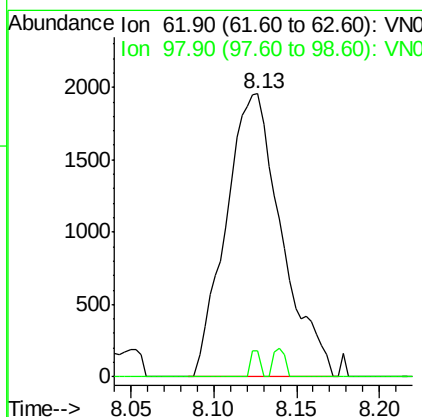
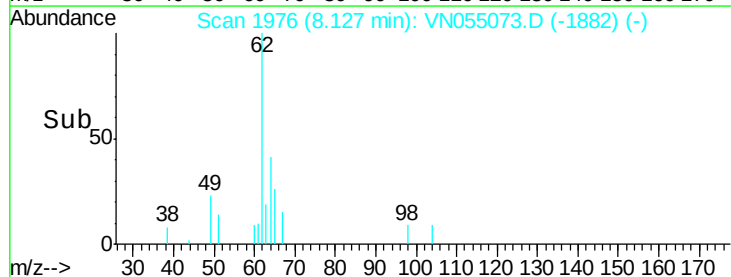
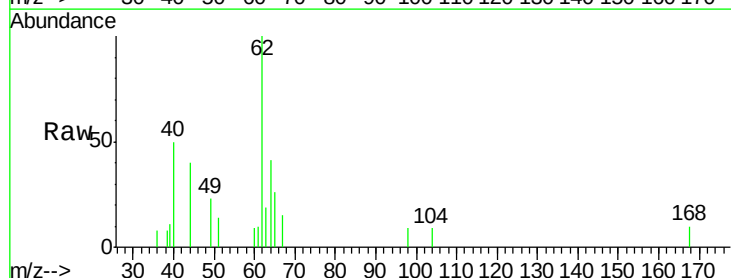
Manual Integrations
APPROVED

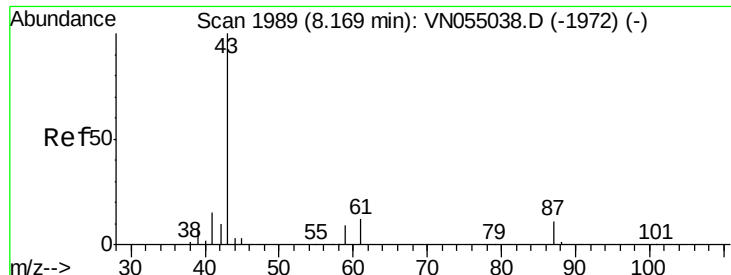
MMDadoda
4/19/2019 2:46:40 PM



#42
1,2-Dichloroethane
Concen: 0.794 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN055073.D
Acq: 16 Apr 2019 12:55

Tgt Ion:	62	Resp:	4563
Ion Ratio	Lower	Upper	
62	100		
98	1.5	0.0	17.4





#43

Isopropyl Acetate

Concen: 0.652 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. -0.00 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

Instrument :

MSVOA_N

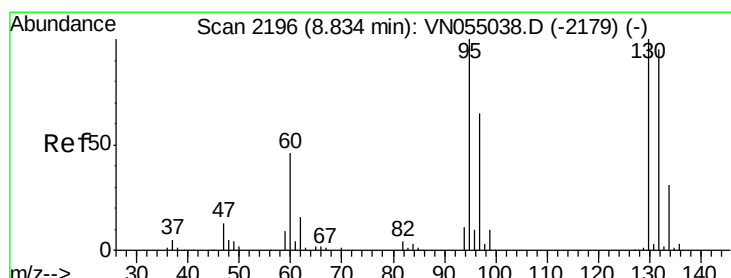
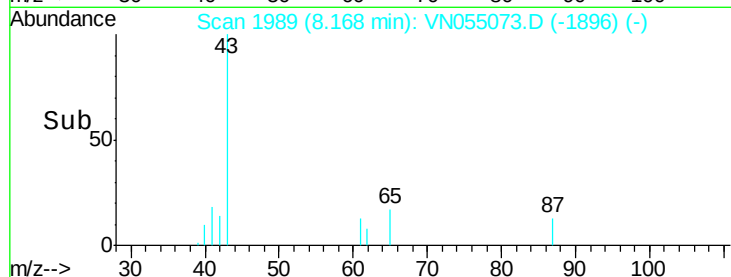
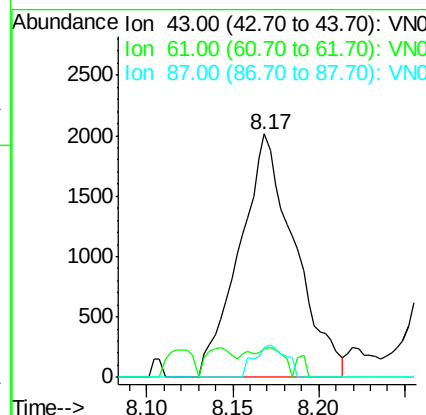
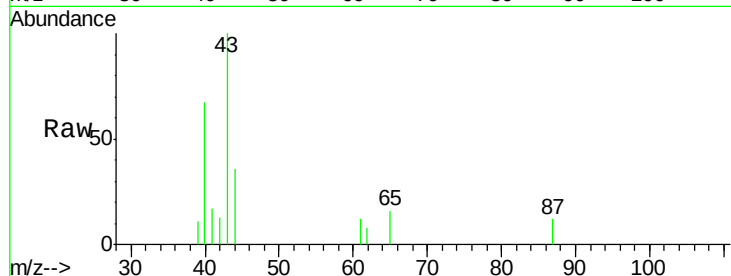
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	43	Resp:	4497
Ion	Ratio	Lower	Upper
43	100		
61	8.0	14.3	21.5#
87	7.6	8.6	13.0#

Manual Integrations
APPROVED

MMDadoda
4/19/2019 2:46:40 PM



#44

Trichloroethene

Concen: 0.582 ug/l

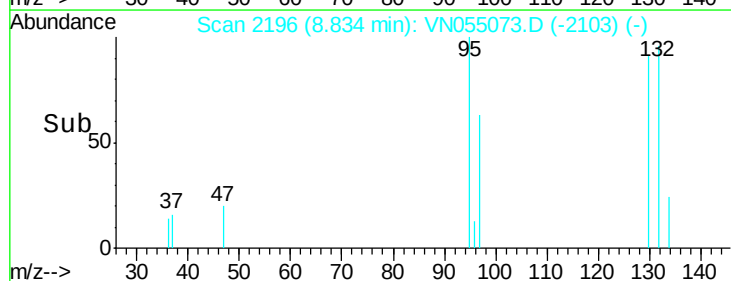
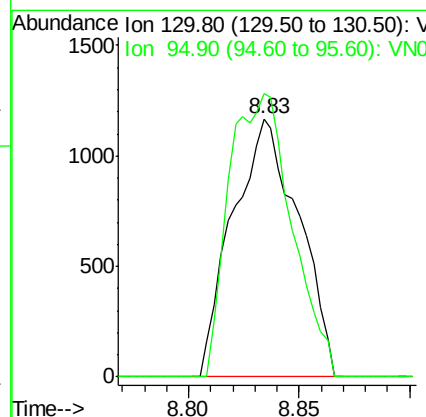
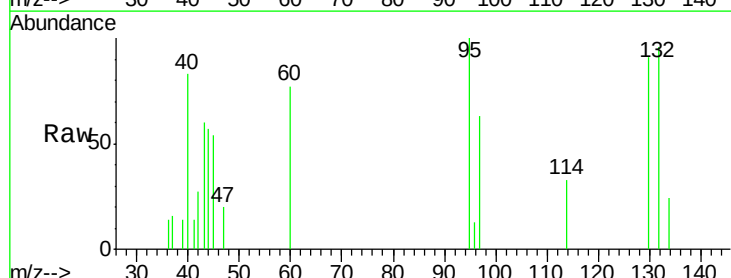
RT: 8.83 min Scan# 2196

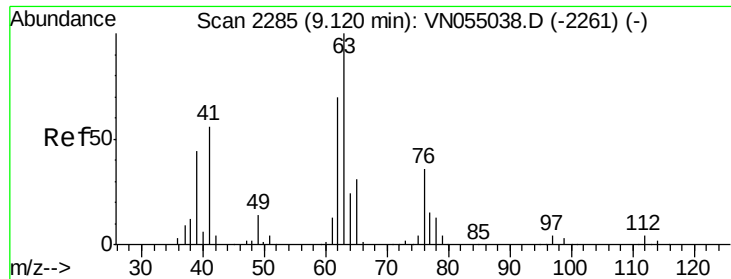
Delta R.T. -0.00 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

Tgt Ion:	130	Resp:	2413
Ion	Ratio	Lower	Upper
130	100		
95	109.7	0.0	201.6





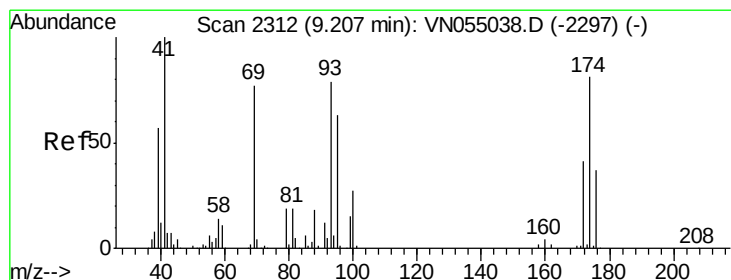
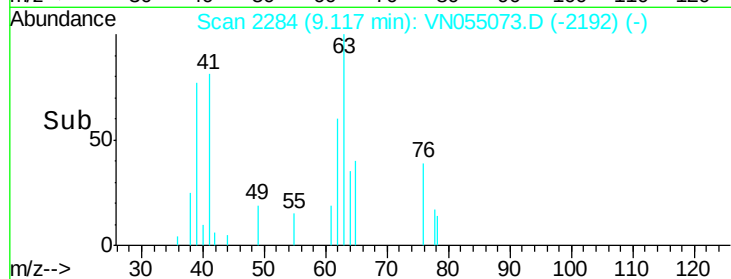
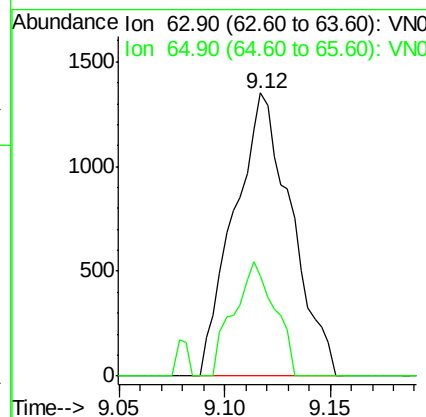
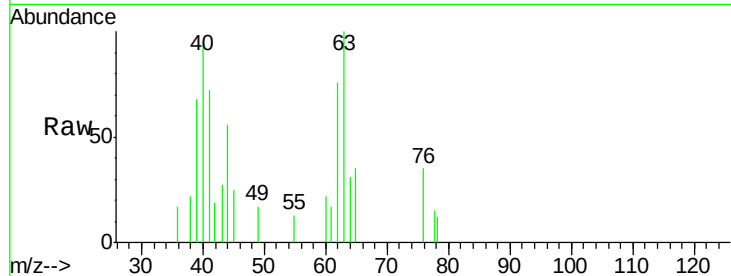
#45
 1,2-Dichloropropane
 Concen: 0.550 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN055073.D
 Acq: 16 Apr 2019 12:55

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT2-2019

Tot Ion: 63 Resp: 2542
 Ion Ratio Lower Upper
 63 100
 65 35.3 24.4 36.6

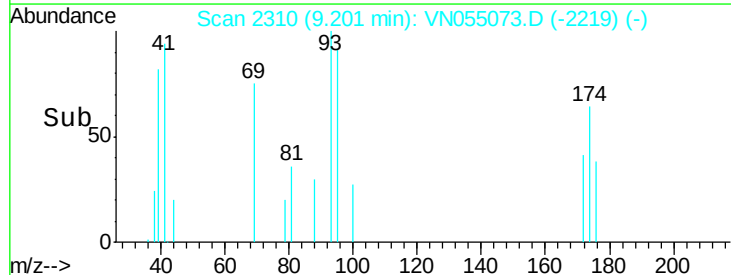
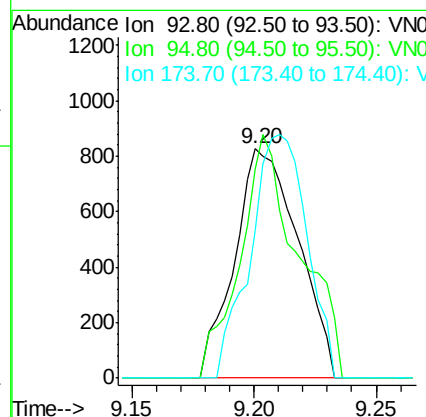
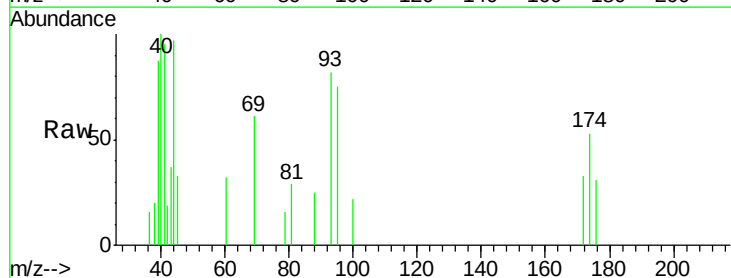
Manual Integrations
 APPROVED

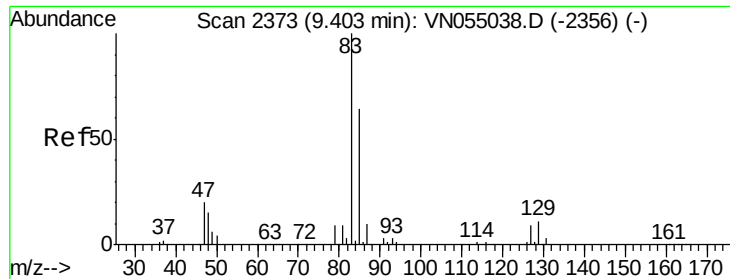
MMDadoda
 4/19/2019 2:46:40 PM



#46
 Dibromomethane
 Concen: 0.569 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. -0.01 min
 Lab File: VN055073.D
 Acq: 16 Apr 2019 12:55

Tgt Ion: 93 Resp: 1495
 Ion Ratio Lower Upper
 93 100
 95 97.7 65.0 97.6#
 174 94.3 81.0 121.6





#47

Bromodichloromethane

Concen: 0.556 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

Instrument :

MSVOA_N

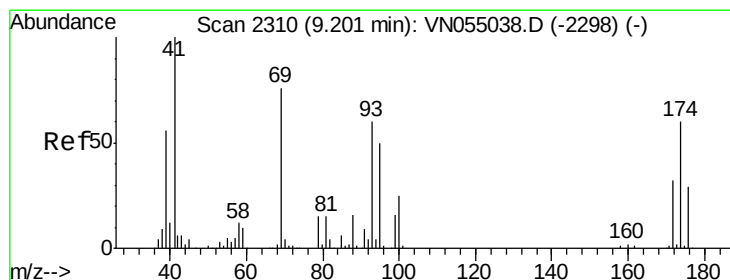
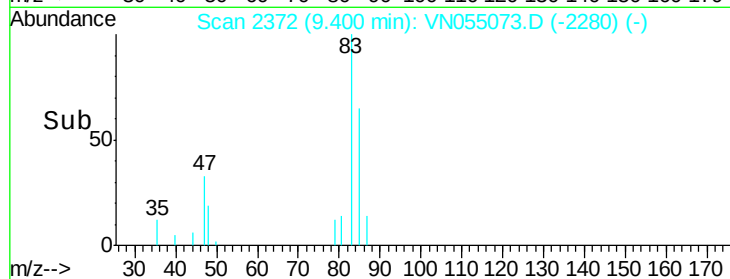
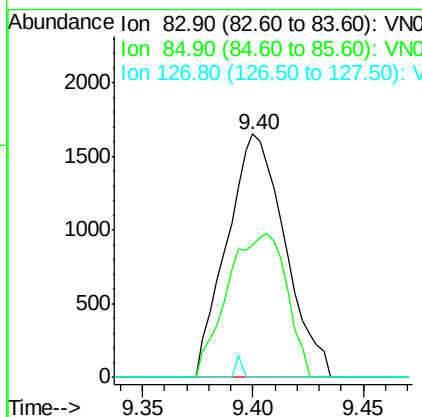
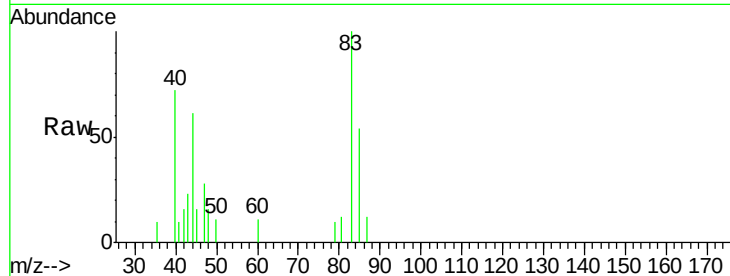
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	83	Resp:	3011
Ion	Ratio	Lower	Upper
83	100		
85	54.3	51.2	76.8
127	0.0	6.8	10.2#

Manual Integrations
APPROVED

MMDadoda
4/19/2019 2:46:40 PM



#48

Methyl methacrylate

Concen: 0.692 ug/l

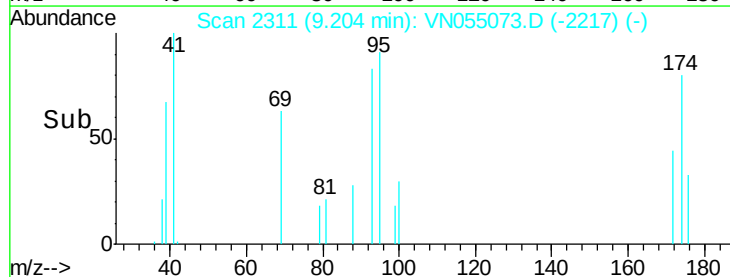
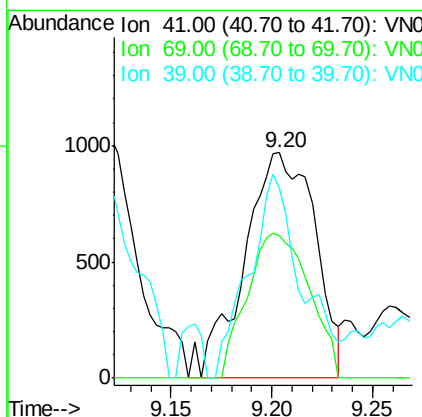
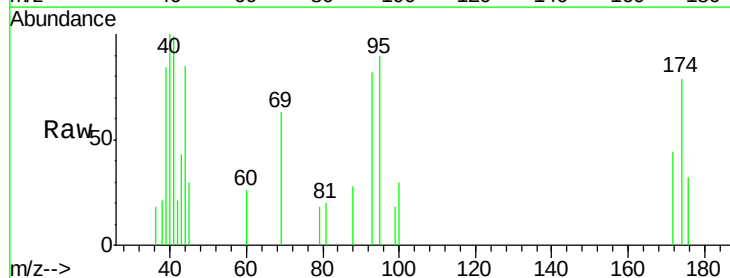
RT: 9.20 min Scan# 2311

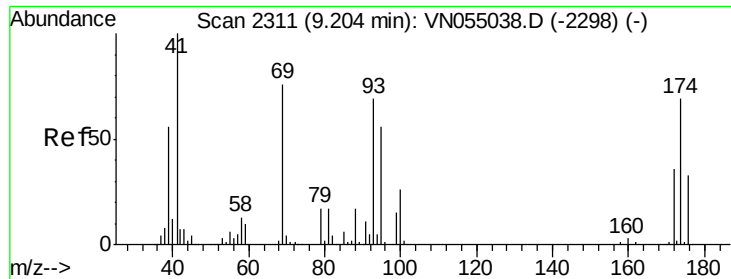
Delta R.T. 0.00 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

Tgt Ion:	41	Resp:	2363
Ion	Ratio	Lower	Upper
41	100		
69	56.7	60.5	90.7#
39	68.0	43.9	65.9#





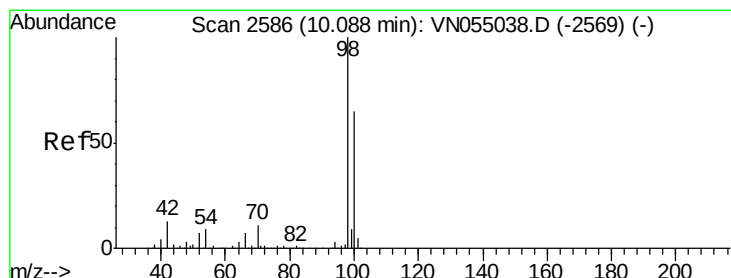
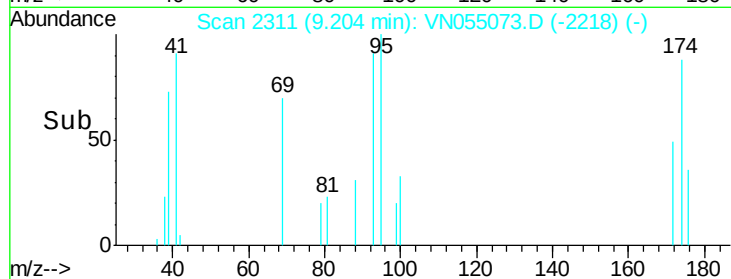
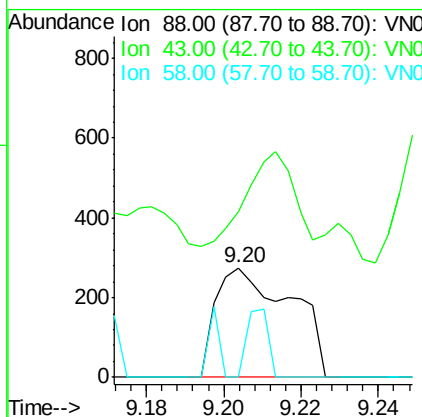
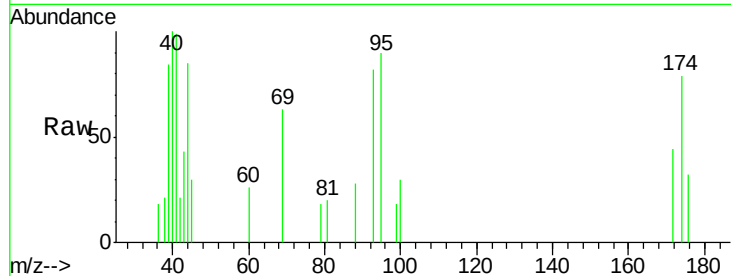
#49
1,4-Dioxane
Concen: 11.592 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. -0.00 min
Lab File: VN055073.D
Acq: 16 Apr 2019 12:55

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

Tot Ion	88	Resp	371
Ion	Ratio	Lower	Upper
88	100		
43	55.3	31.8	47.8#
58	17.5	61.6	92.4#

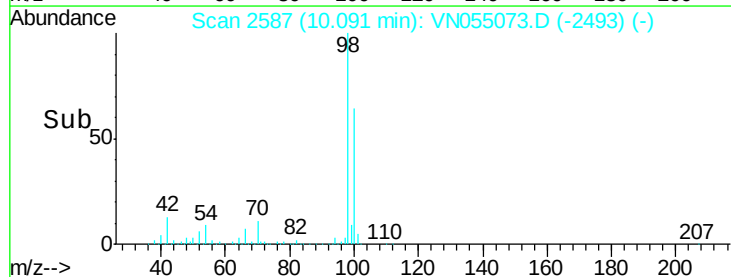
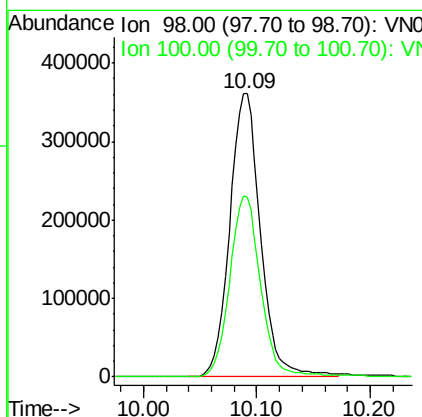
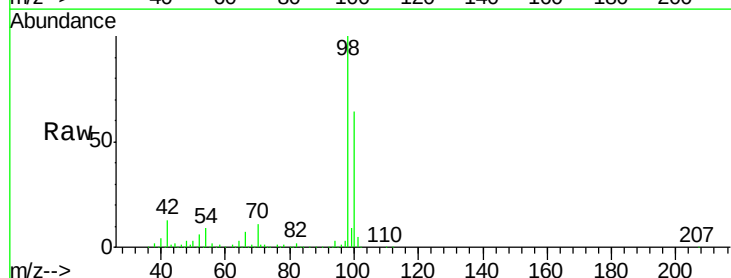
Manual Integrations
APPROVED

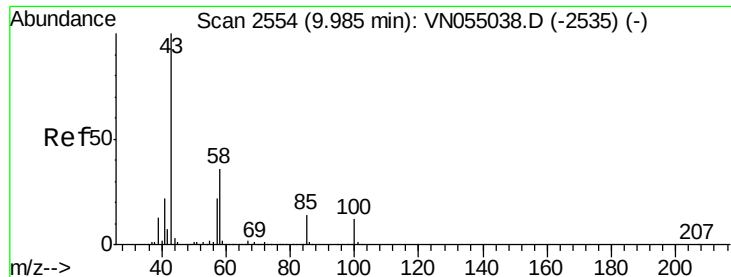
MMDadoda
4/19/2019 2:46:40 PM



#50
Toluene-d8
Concen: 49.052 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN055073.D
Acq: 16 Apr 2019 12:55

Tgt Ion	98	Resp	683826
Ion	Ratio	Lower	Upper
98	100		
100	64.6	51.1	76.7





#51

4-Methyl-2-Pentanone

Concen: 2.644 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 43 Resp: 10529

Ion Ratio Lower Upper

43 100

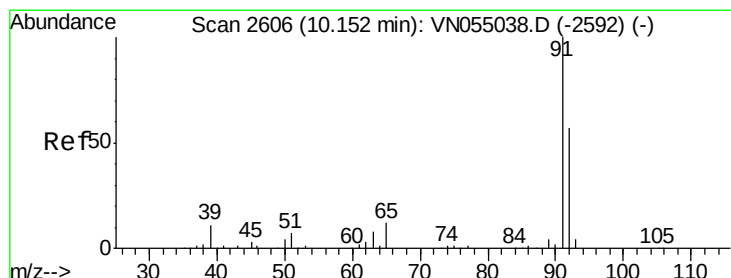
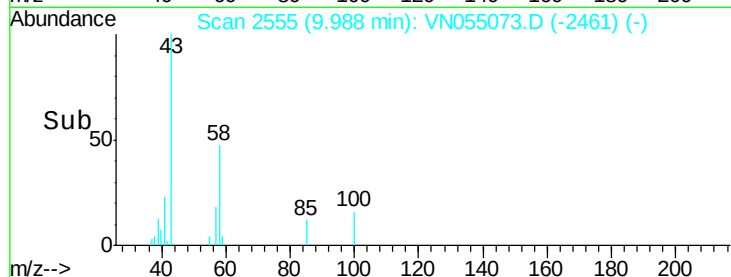
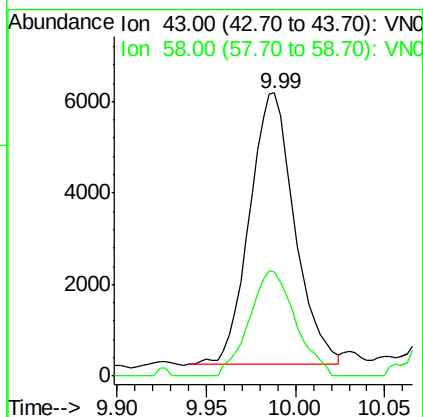
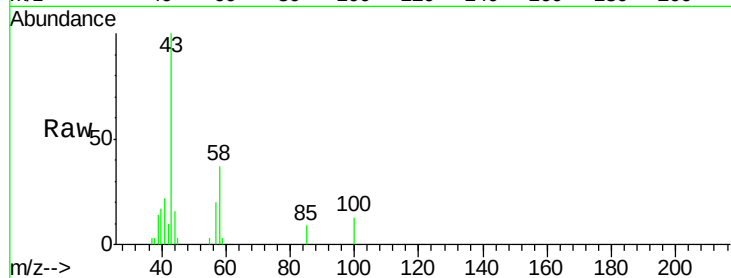
58 39.5 29.0 43.4

Manual Integrations

APPROVED

MMDadoda

4/19/2019 2:46:40 PM



#52

Toluene

Concen: 0.608 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN055073.D

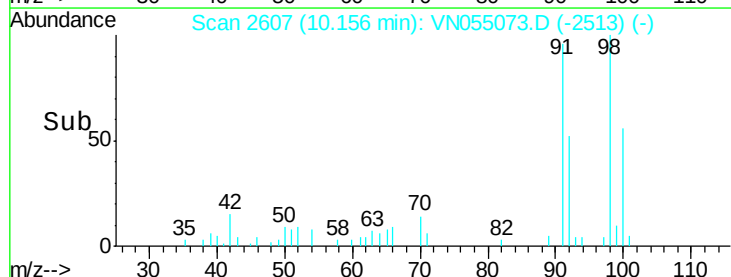
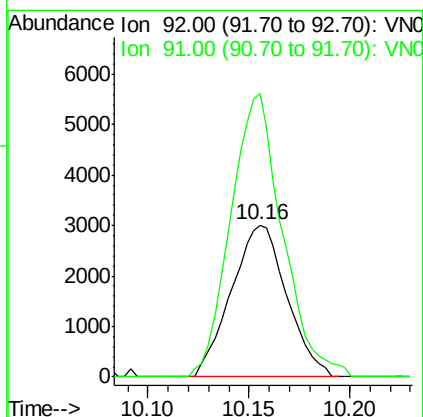
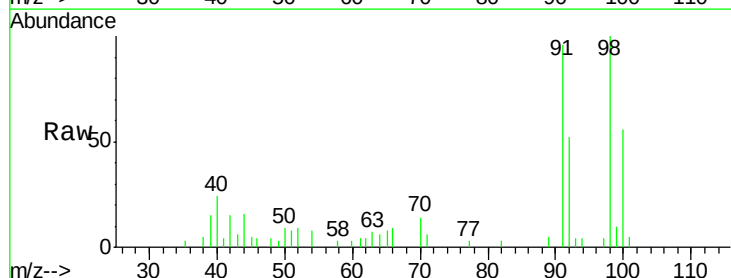
Acq: 16 Apr 2019 12:55

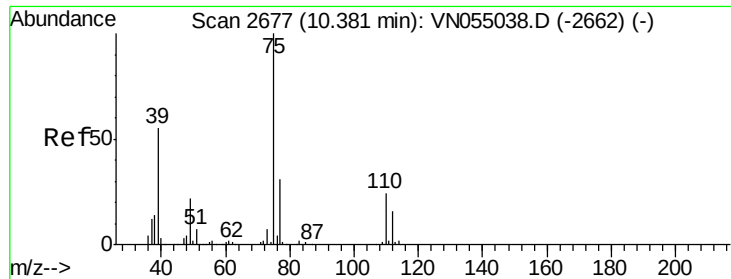
Tgt Ion: 92 Resp: 5771

Ion Ratio Lower Upper

92 100

91 175.0 140.8 211.2





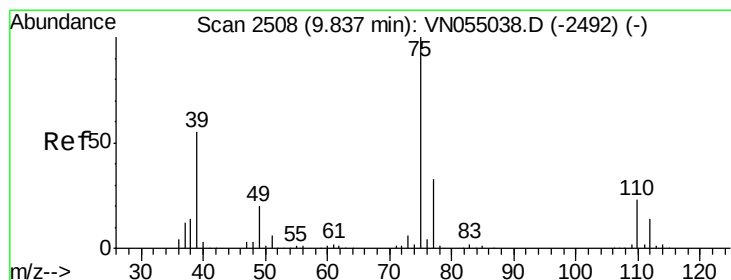
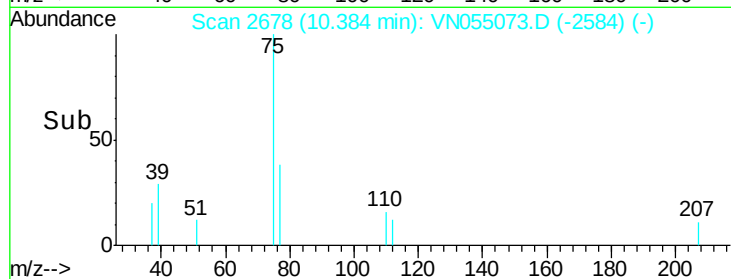
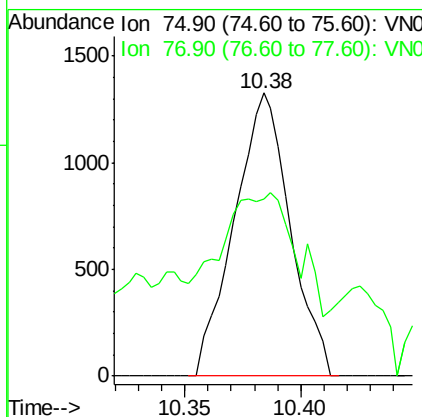
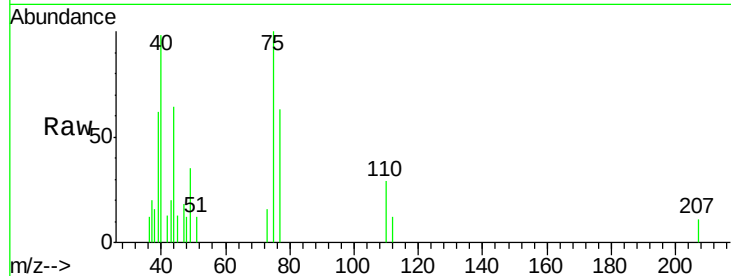
#53
 t-1,3-Dichloropropene
 Concen: 0.468 ug/l
 RT: 10.38 min Scan# 2678
 Delta R.T. 0.00 min
 Lab File: VN055073.D
 Acq: 16 Apr 2019 12:55

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT2-2019

Tot Ion: 75 Resp: 2218
 Ion Ratio Lower Upper
 75 100
 77 36.9 24.6 37.0

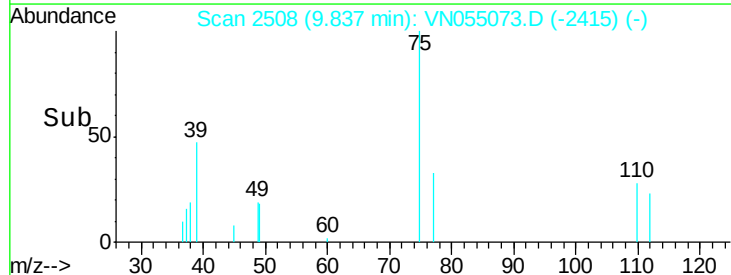
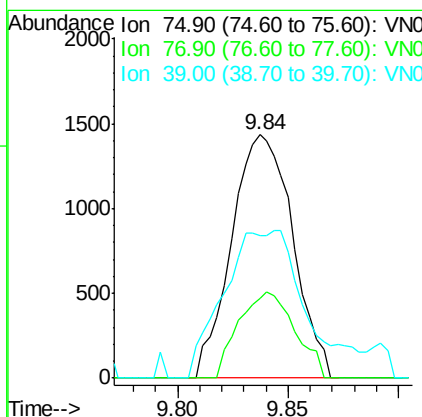
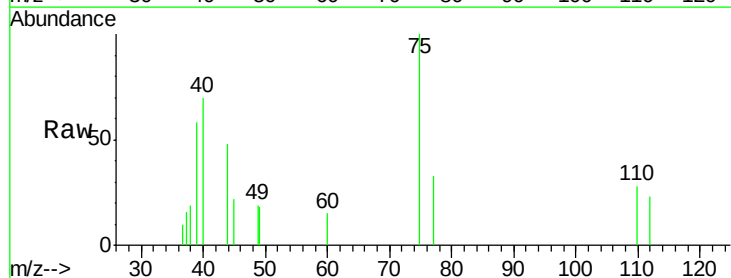
Manual Integrations
 APPROVED

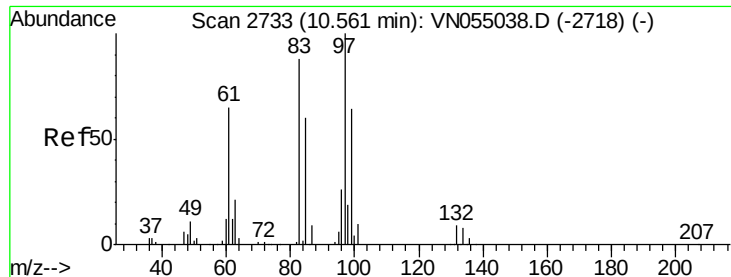
MMDadoda
 4/19/2019 2:46:40 PM



#54
 cis-1,3-Dichloropropene
 Concen: 0.469 ug/l
 RT: 9.84 min Scan# 2508
 Delta R.T. -0.00 min
 Lab File: VN055073.D
 Acq: 16 Apr 2019 12:55

Tgt Ion: 75 Resp: 2759
 Ion Ratio Lower Upper
 75 100
 77 32.7 25.8 38.6
 39 58.5 43.8 65.8





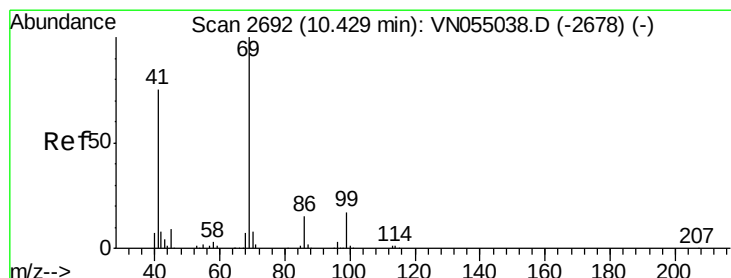
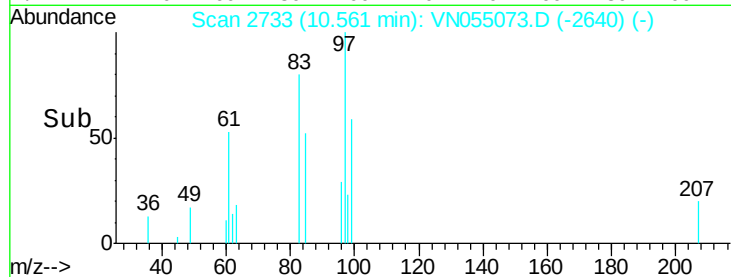
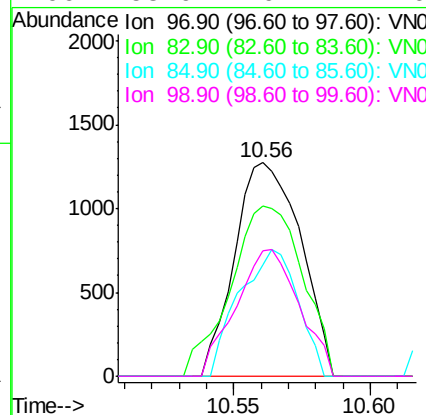
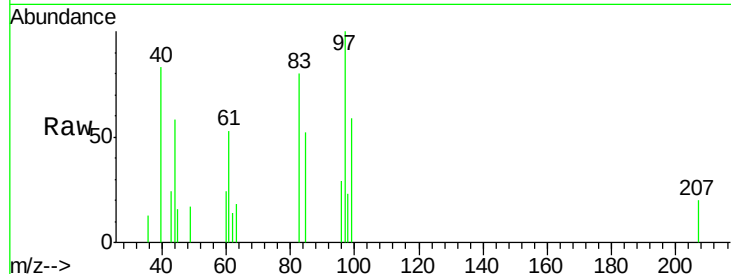
#55
 1,1,2-Trichloroethane
 Concen: 0.586 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN055073.D
 Acq: 16 Apr 2019 12:55

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT2-2019

Tot Ion:	97	Resp:	2140
Ion	Ratio	Lower	Upper
97	100		
83	79.8	70.5	105.7
85	52.3	45.5	68.3
99	58.9	49.4	74.0

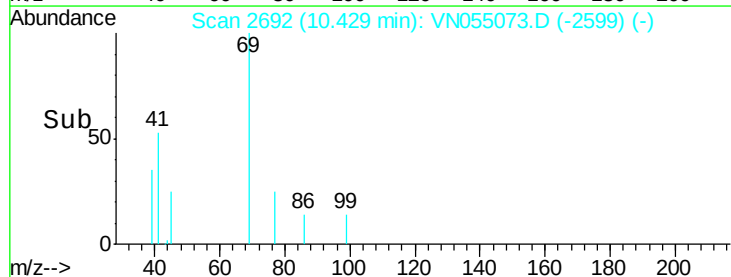
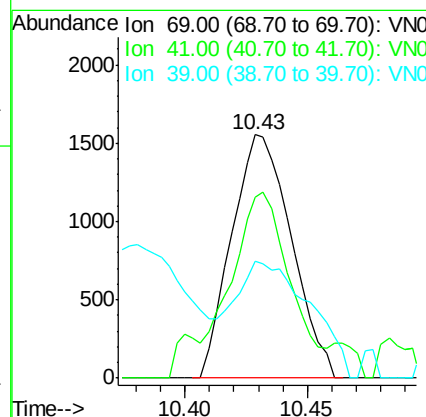
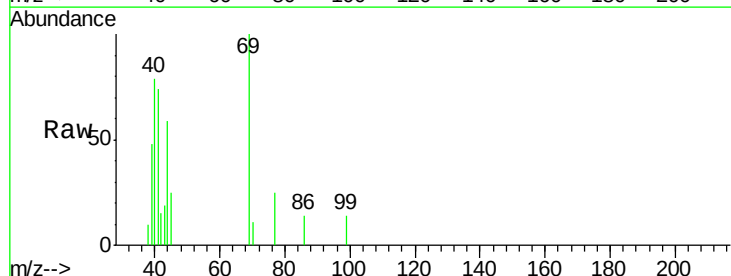
Manual Integrations
 APPROVED

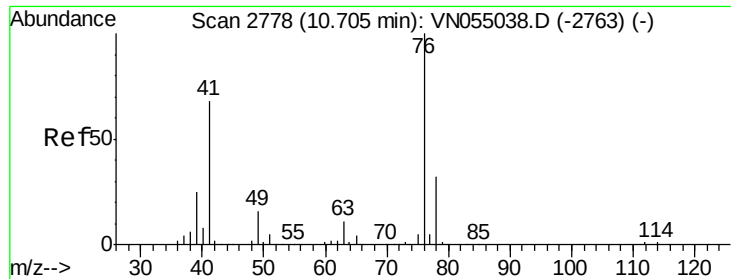
MMDadoda
 4/19/2019 2:46:40 PM



#56
 Ethyl methacrylate
 Concen: 0.602 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. -0.00 min
 Lab File: VN055073.D
 Acq: 16 Apr 2019 12:55

Tgt Ion:	69	Resp:	2639
Ion	Ratio	Lower	Upper
69	100		
41	61.1	61.4	92.0#
39	60.9	30.8	46.2#





#57

1,3-Dichloropropane

Concen: 0.639 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. -0.00 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 76 Resp: 3977

Ion Ratio Lower Upper

76 100

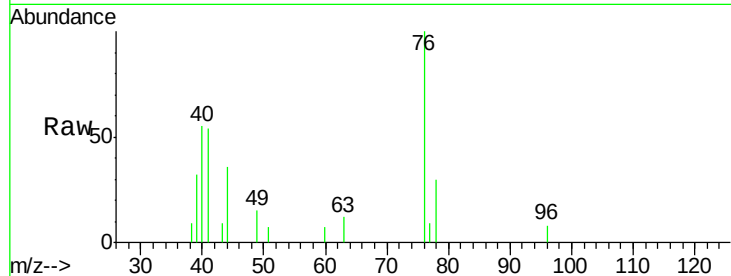
78 31.8 25.6 38.4

Manual Integrations

APPROVED

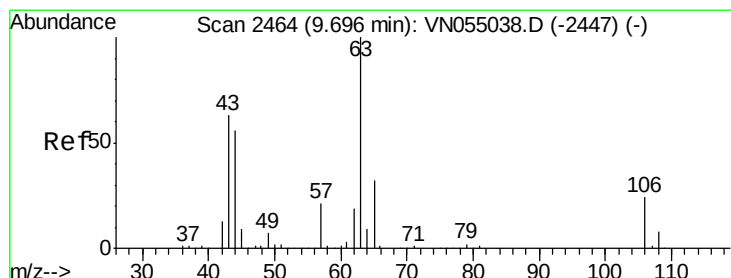
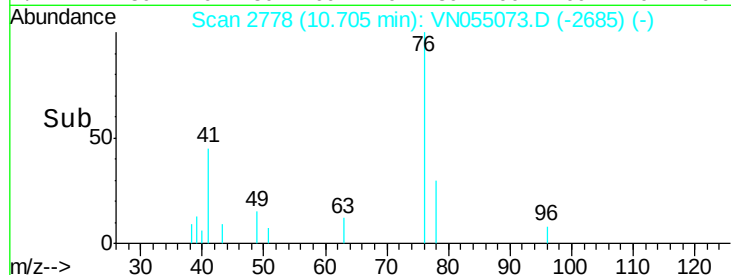
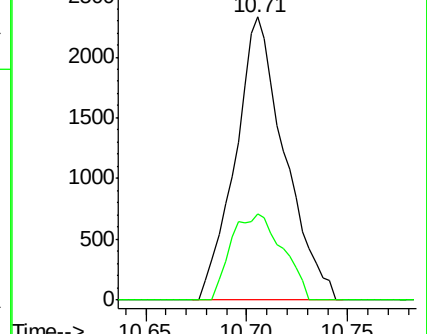
MMDadoda

4/19/2019 2:46:40 PM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 2.335 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. -0.00 min

Lab File: VN055073.D

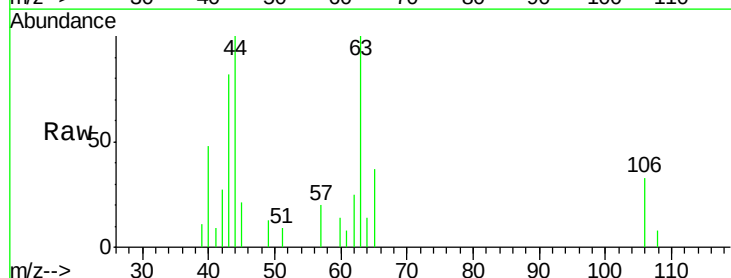
Acq: 16 Apr 2019 12:55

Tgt Ion: 63 Resp: 3779

Ion Ratio Lower Upper

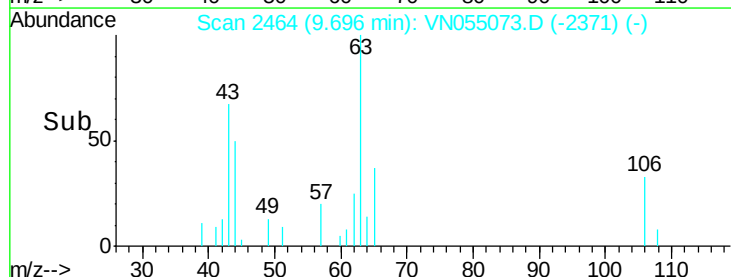
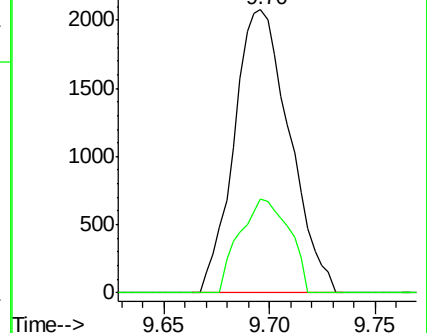
63 100

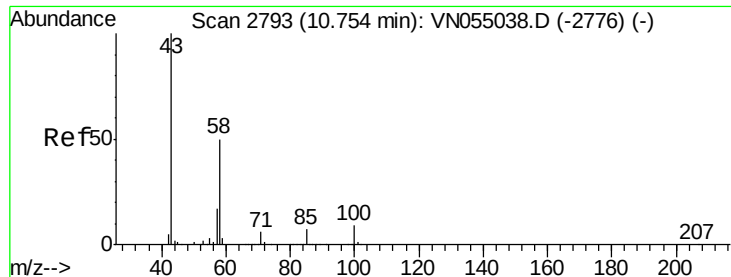
106 29.8 20.0 30.0



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





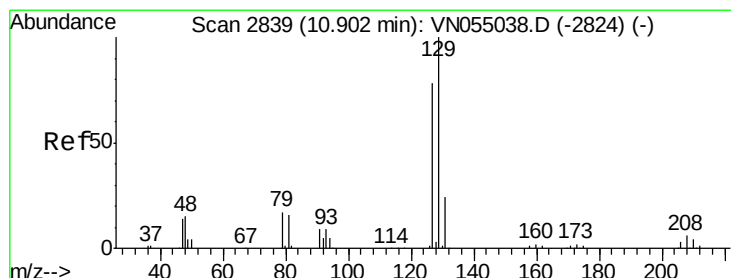
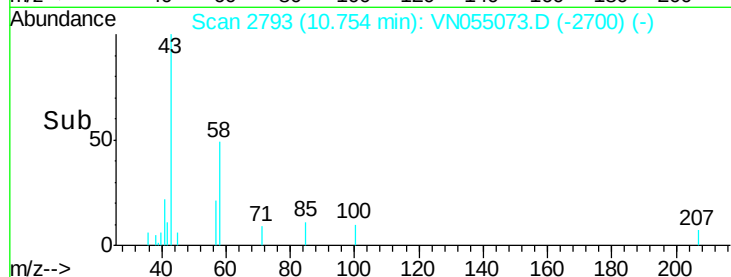
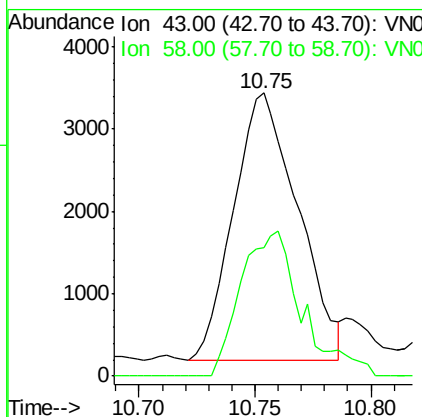
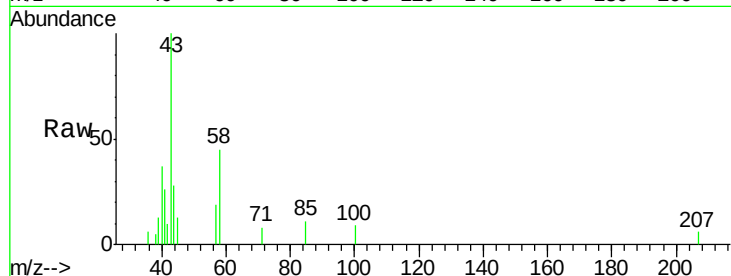
#59
2-Hexanone
Concen: 2.507 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. -0.00 min
Lab File: VN055073.D
Acq: 16 Apr 2019 12:55

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

Tot Ion	43	Resp	6271
Ion Ratio	100	Lower	Upper
43	100		
58	51.4	25.1	75.2

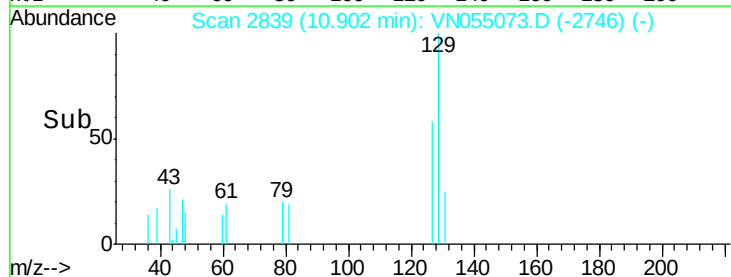
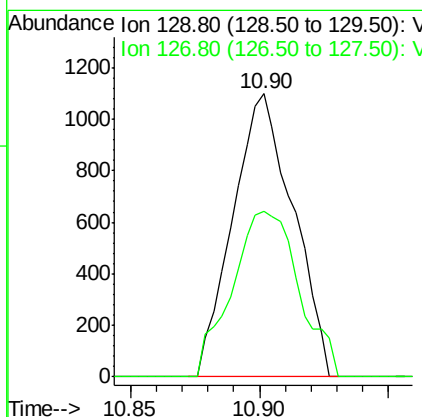
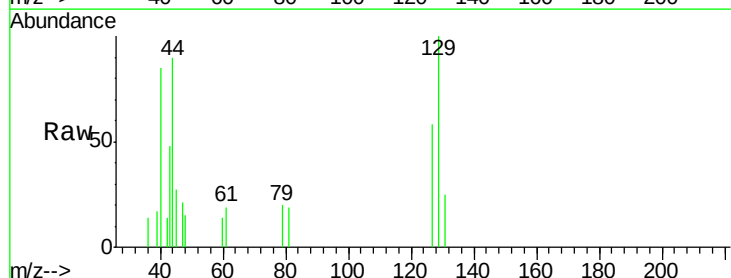
Manual Integrations
APPROVED

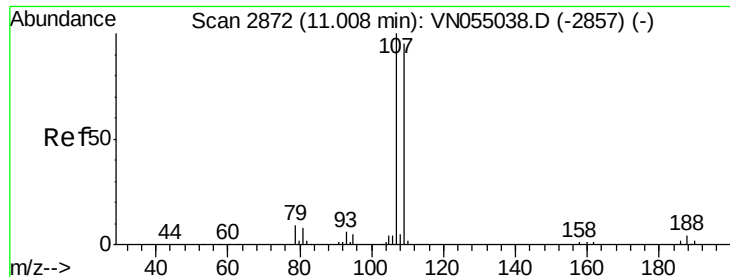
MMDadoda
4/19/2019 2:46:40 PM



#60
Dibromochloromethane
Concen: 0.501 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN055073.D
Acq: 16 Apr 2019 12:55

Tgt Ion	129	Resp	1788
Ion Ratio	100	Lower	Upper
129	100		
127	65.2	38.2	114.6





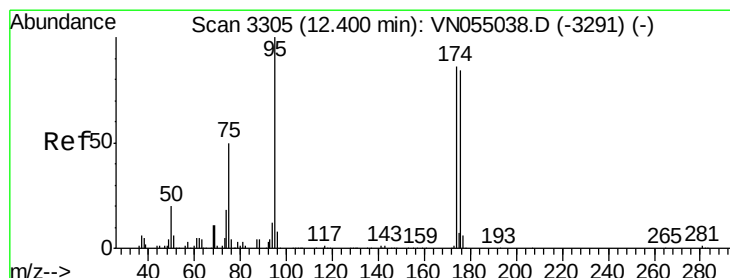
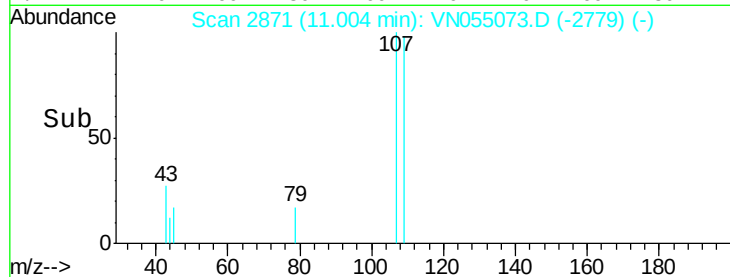
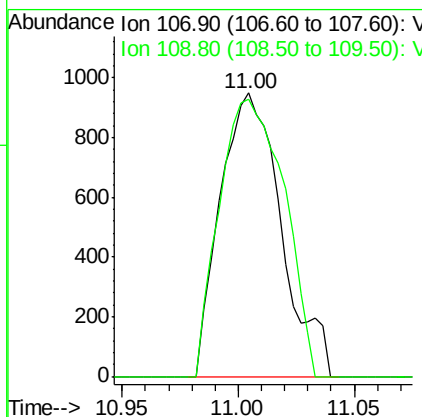
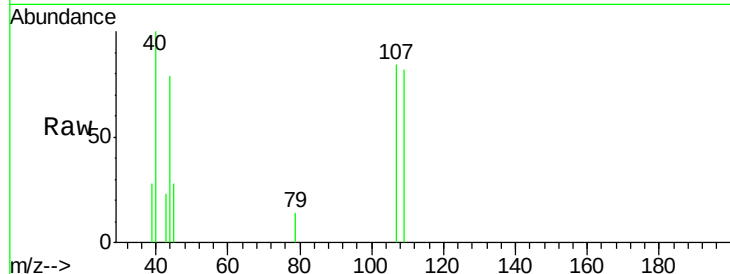
#61
 1,2-Dibromoethane
 Concen: 0.516 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN055073.D
 Acq: 16 Apr 2019 12:55

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT2-2019

Tot Ion: 107 Resp: 1735
 Ion Ratio Lower Upper
 107 100
 109 103.8 76.5 114.7

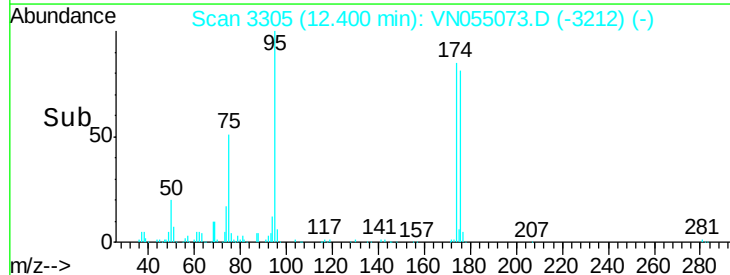
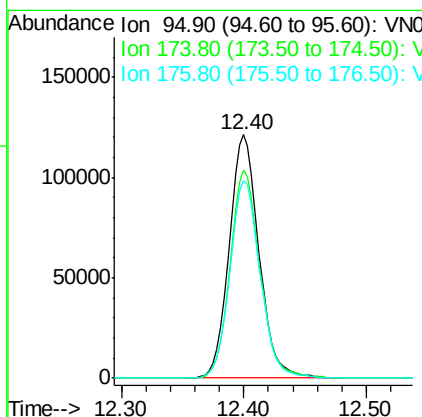
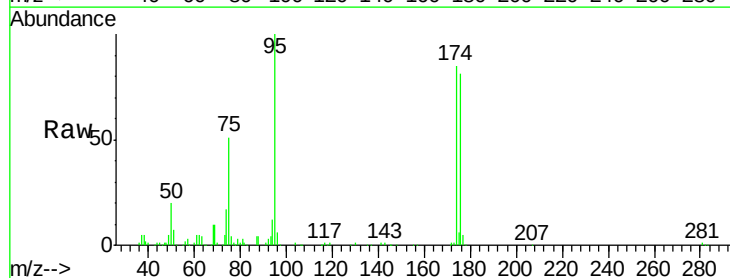
Manual Integrations
 APPROVED

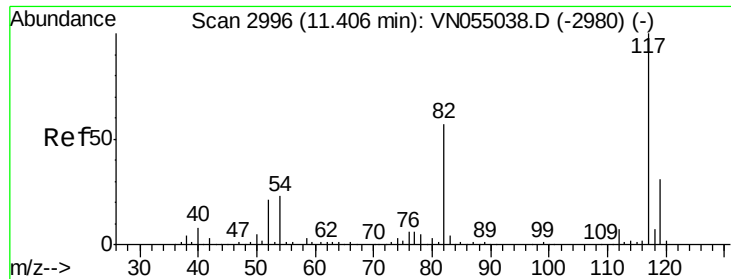
MMDadoda
 4/19/2019 2:46:40 PM



#62
 4-Bromofluorobenzene
 Concen: 45.550 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN055073.D
 Acq: 16 Apr 2019 12:55

Tgt Ion: 95 Resp: 206441
 Ion Ratio Lower Upper
 95 100
 174 85.8 0.0 174.4
 176 82.4 0.0 166.8





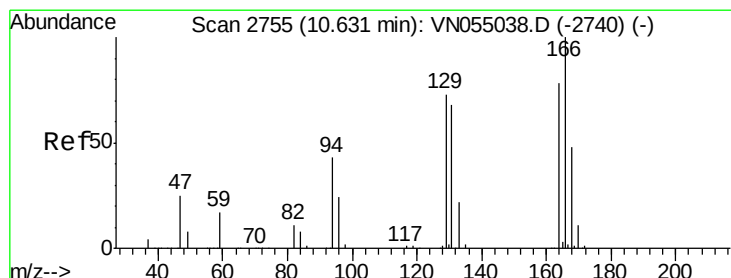
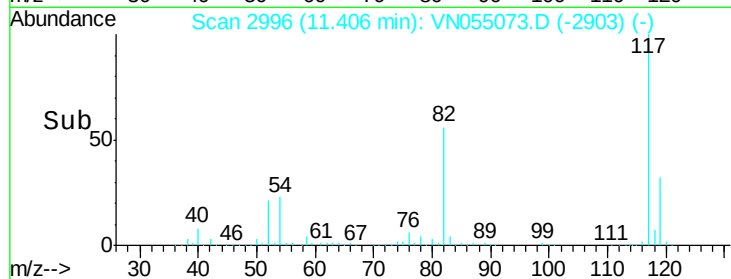
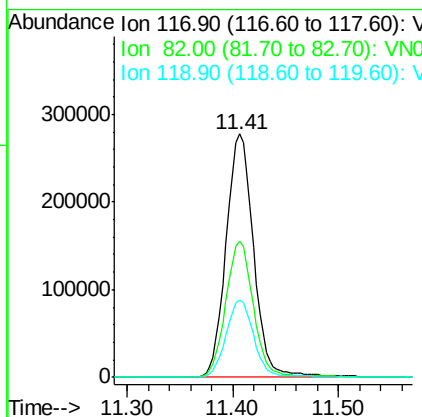
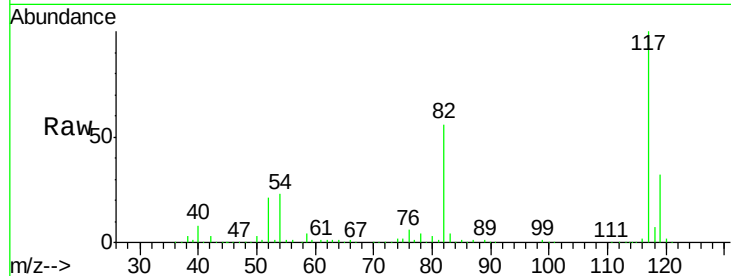
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN055073.D
Acq: 16 Apr 2019 12:55

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
117	100	503029		
82	56.0		44.6	66.8
119	31.8		25.5	38.3

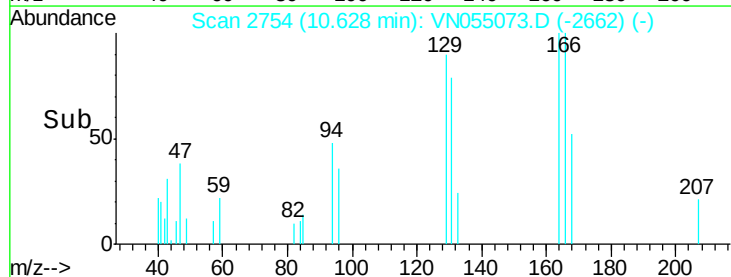
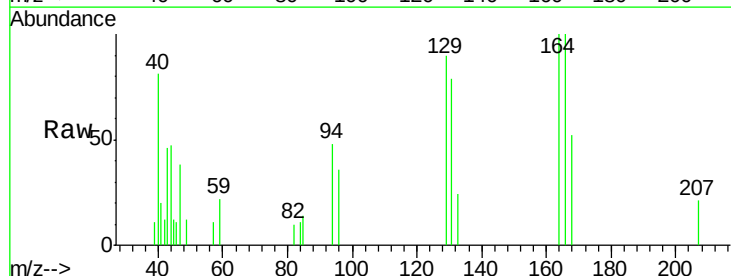
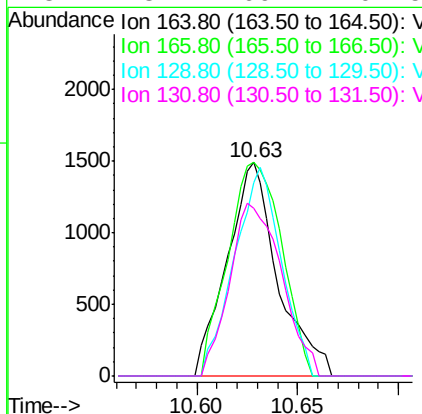
Manual Integrations
APPROVED

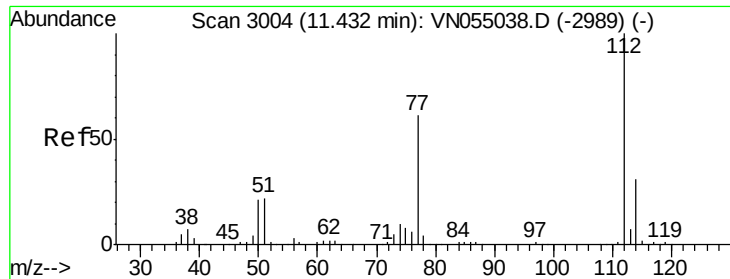
MMDadoda
4/19/2019 2:46:40 PM



#64
Tetrachloroethene
Concen: 0.638 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN055073.D
Acq: 16 Apr 2019 12:55

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	2608		
166	99.9		100.0	150.0#
129	90.3		72.0	108.0
131	78.7		69.7	104.5





#65

Chlorobenzene

Concen: 0.556 ug/l

RT: 11.43 min Scan# 3003

Delta R.T. -0.00 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:112 Resp: 5634

Ion Ratio Lower Upper

112 100

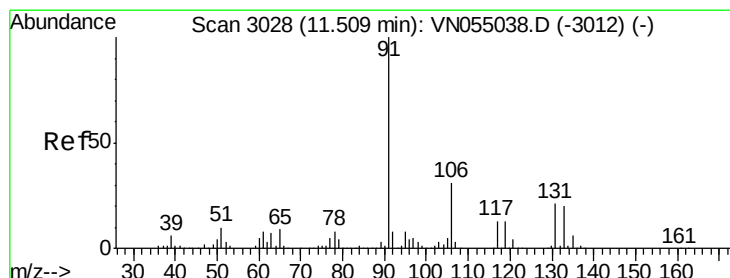
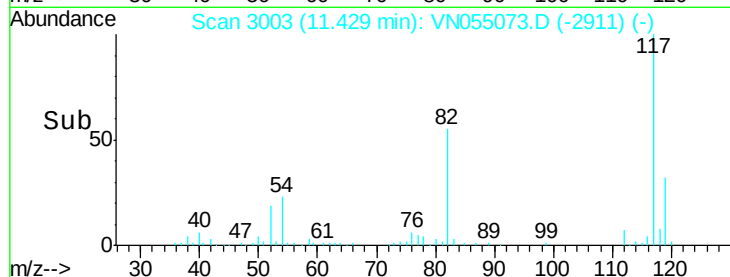
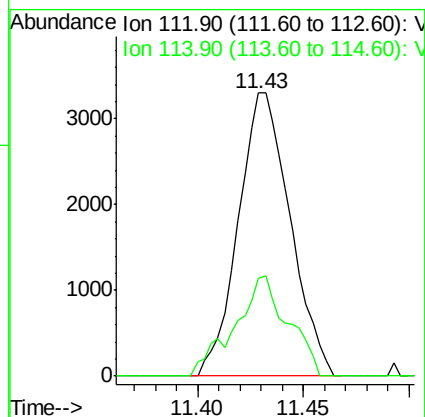
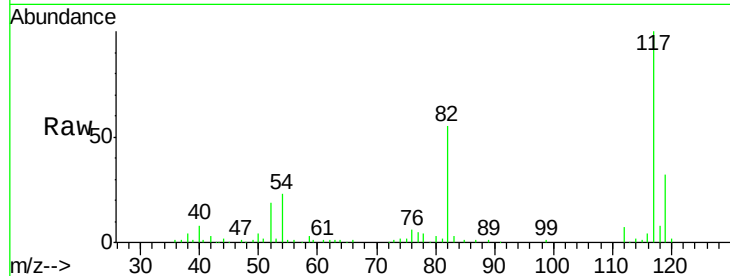
114 34.7 25.3 37.9

Manual Integrations

APPROVED

MMDadoda

4/19/2019 2:46:40 PM



#66

1,1,1,2-Tetrachloroethane

Concen: 0.503 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

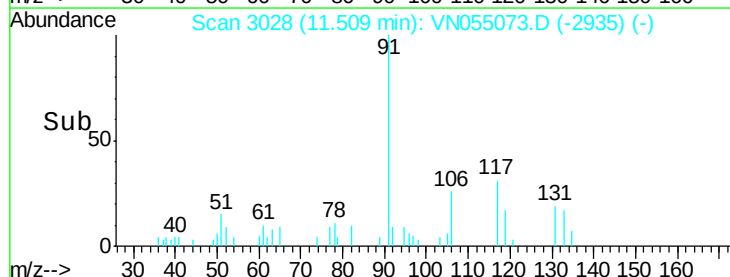
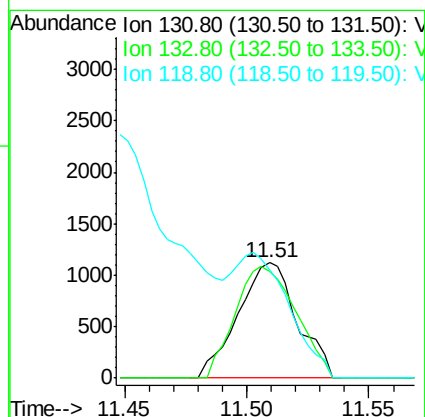
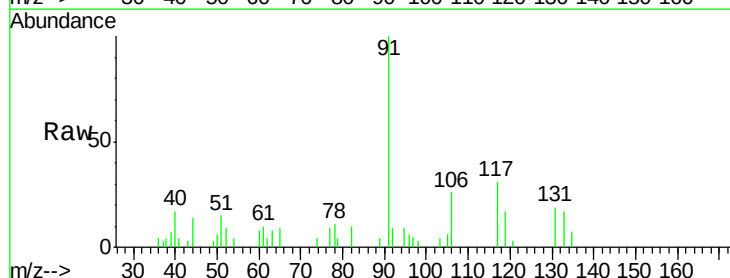
Tgt Ion:131 Resp: 1875

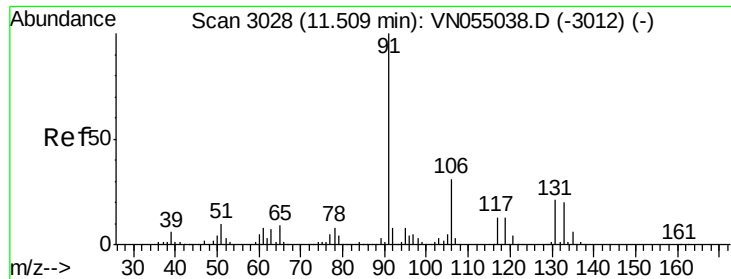
Ion Ratio Lower Upper

131 100

133 99.9 47.8 143.3

119 0.0 33.6 100.6#





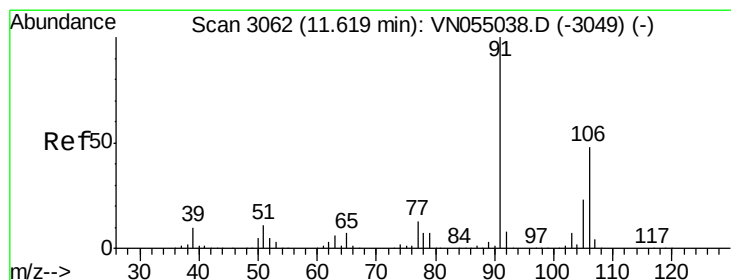
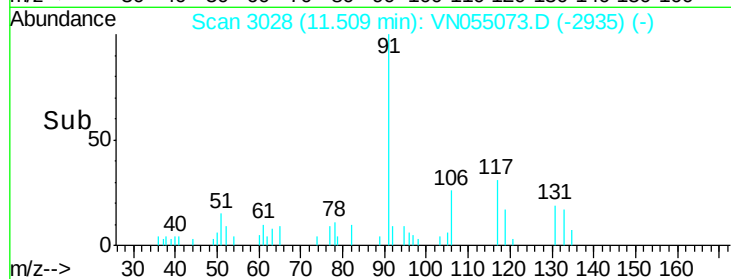
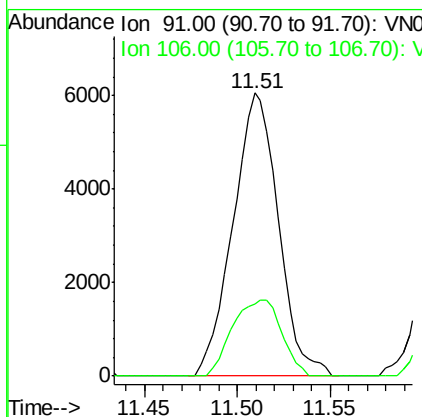
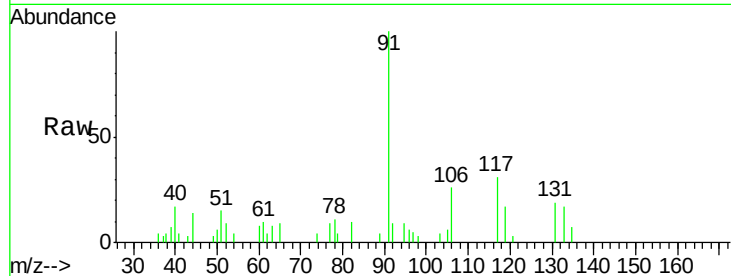
#67
Ethyl Benzene
Concen: 0.568 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN055073.D
Acq: 16 Apr 2019 12:55

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

Tot Ion: 91 Resp: 10274
Ion Ratio Lower Upper
91 100
106 25.6 24.3 36.5

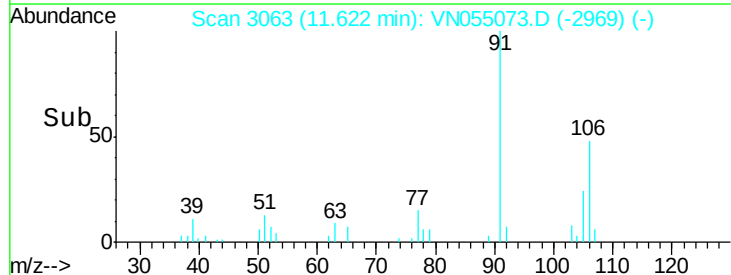
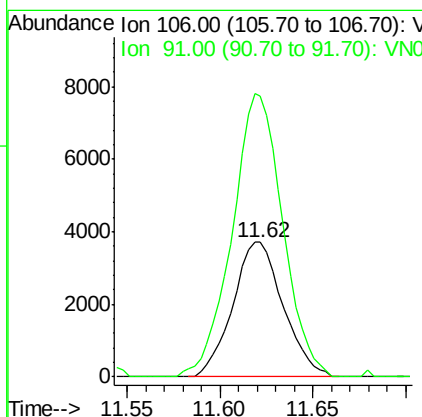
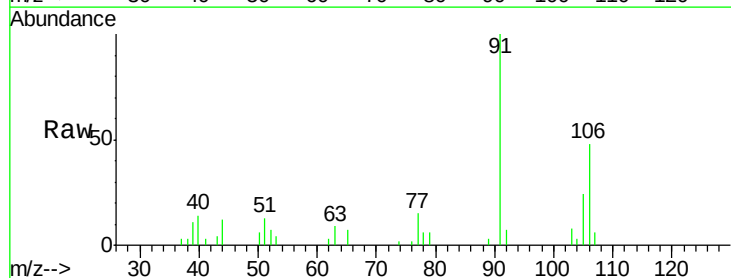
Manual Integrations
APPROVED

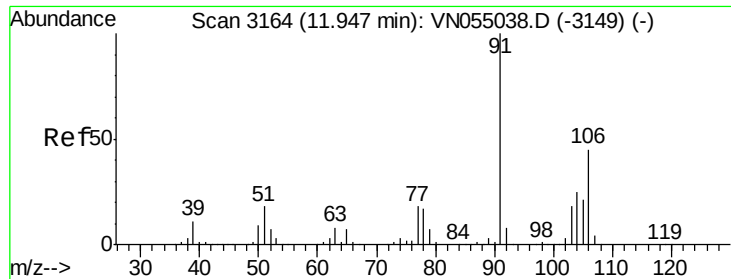
MMDadoda
4/19/2019 2:46:40 PM



#68
m/p-Xylenes
Concen: 1.067 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN055073.D
Acq: 16 Apr 2019 12:55

Tgt Ion: 106 Resp: 6985
Ion Ratio Lower Upper
106 100
91 211.2 165.9 248.9





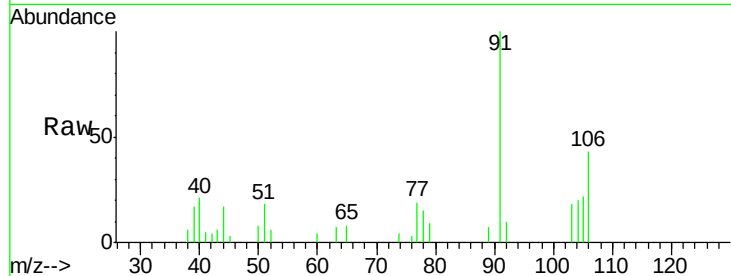
#69
o-Xylene
Concen: 0.532 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN055073.D
Acq: 16 Apr 2019 12:55

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

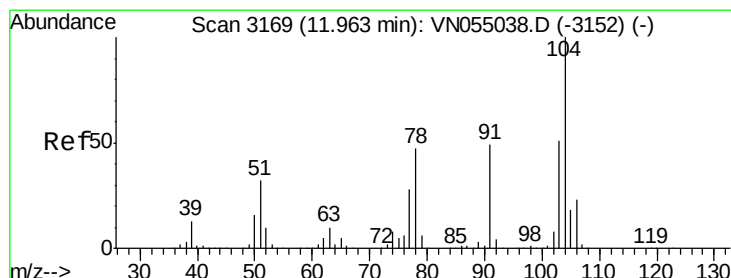
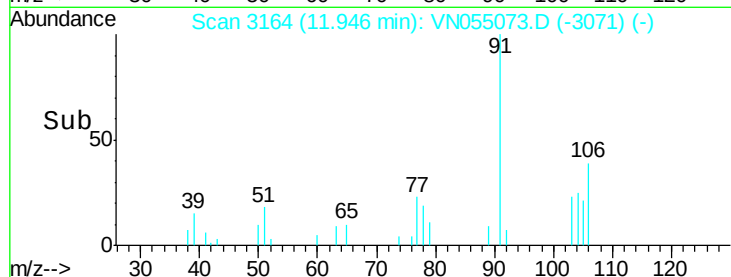
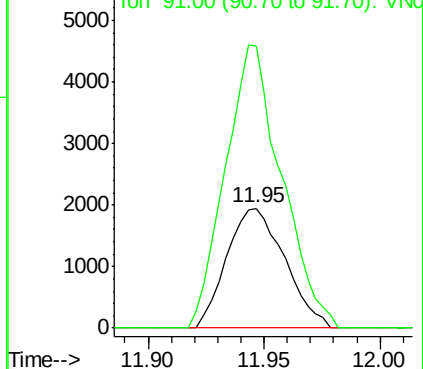
Tot Ion:106 Resp: 3375
Ion Ratio Lower Upper
106 100
91 229.0 109.9 329.8

Manual Integrations
APPROVED

MMDadoda
4/19/2019 2:46:40 PM

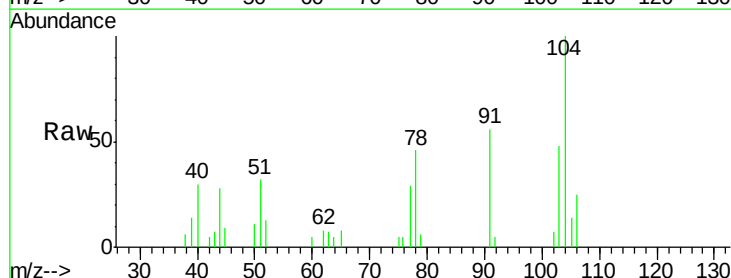


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

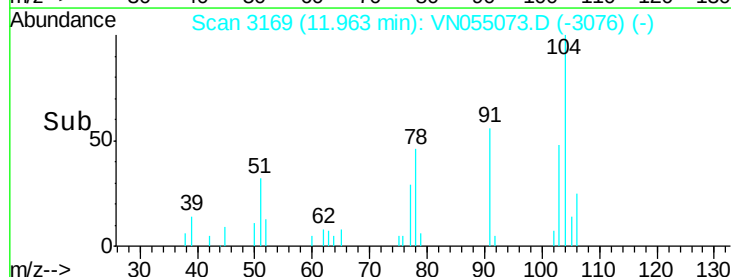
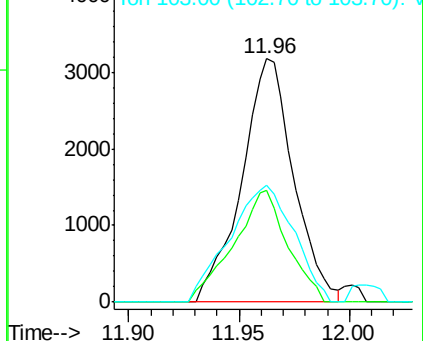


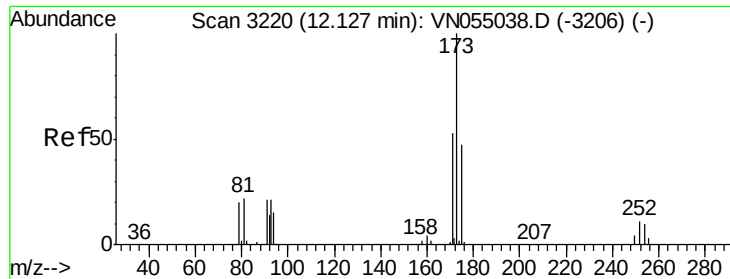
#70
Styrene
Concen: 0.506 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN055073.D
Acq: 16 Apr 2019 12:55

Tgt Ion:104 Resp: 5198
Ion Ratio Lower Upper
104 100
78 47.4 40.3 60.5
103 59.3 44.3 66.5



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





#71

Bromoform

Concen: 0.488 ug/l

RT: 12.13 min Scan# 3222

Delta R.T. 0.01 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

Instrument :

MSVOA_N

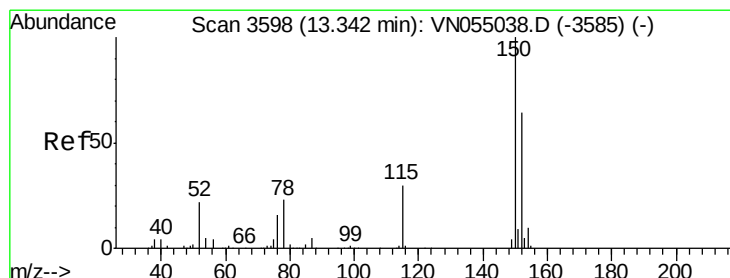
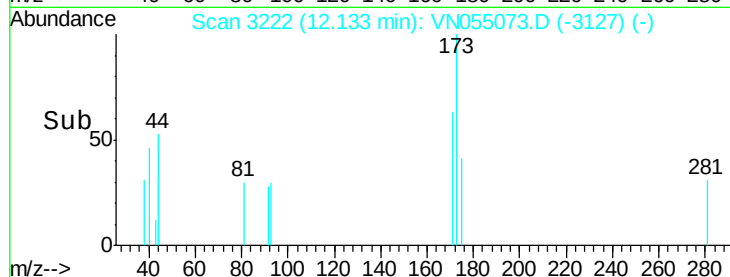
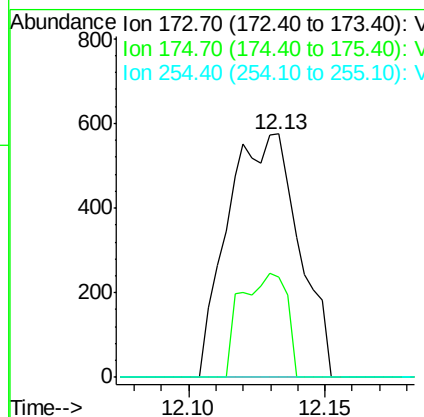
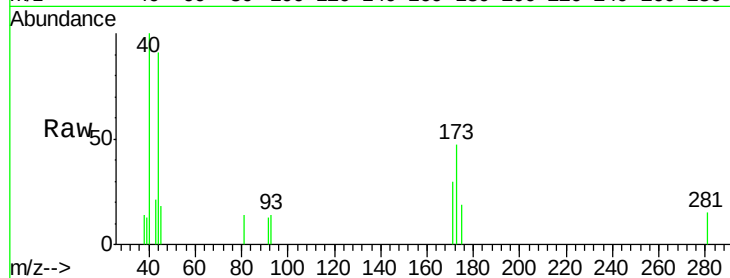
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	173	Resp:	1041
Ion Ratio	Lower	Upper	
173	100		
175	0.0	24.3	73.0#
254	0.0	0.1	0.1#

Manual Integrations
APPROVED

MMDadoda
4/19/2019 2:46:40 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

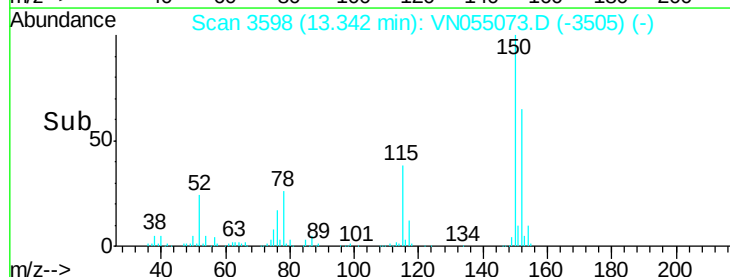
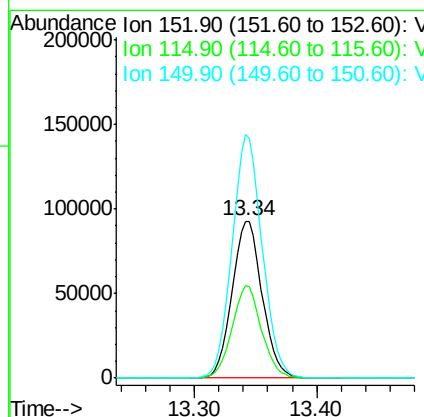
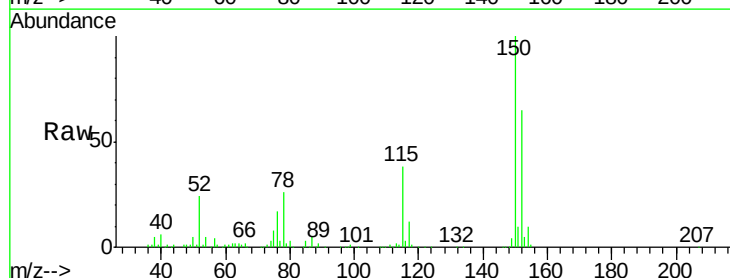
RT: 13.34 min Scan# 3598

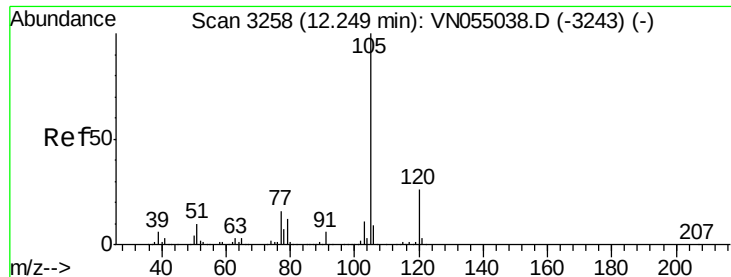
Delta R.T. -0.00 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

Tgt Ion:	152	Resp:	159568
Ion Ratio	Lower	Upper	
152	100		
115	57.1	28.5	85.6
150	154.8	0.0	347.2





#73

Isopropylbenzene

Concen: 0.632 ug/l

RT: 12.25 min Scan# 3257

Delta R.T. -0.00 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 105 Resp: 8948

Ion Ratio Lower Upper

105 100

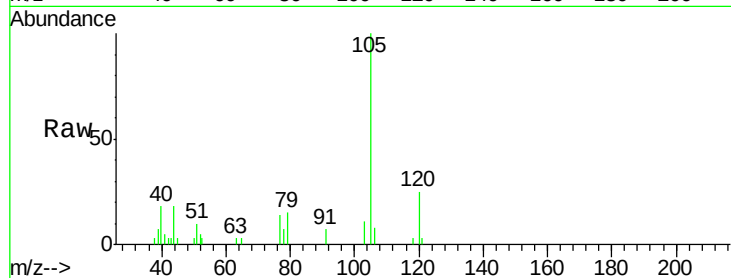
120 24.4 13.3 39.9

Manual Integrations

APPROVED

MMDadoda

4/19/2019 2:46:40 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

6000

5000

4000

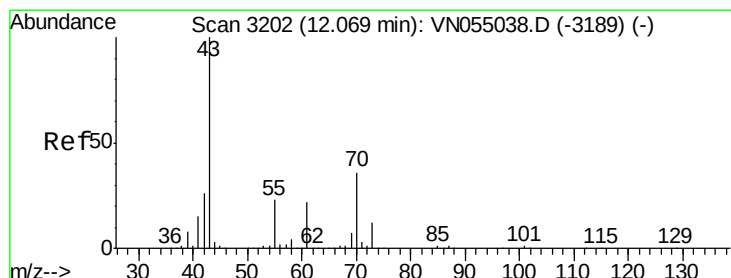
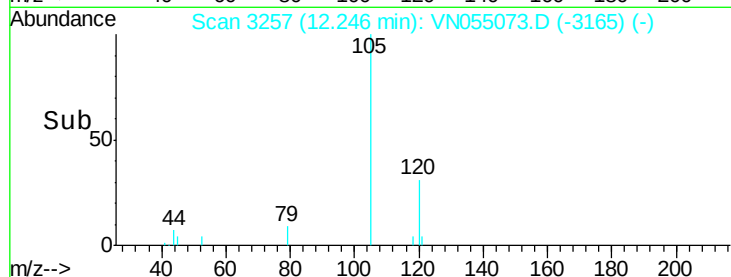
3000

2000

1000

0

Time-->



#74

N-ethyl acetate

Concen: 0.739 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

Tgt Ion: 43 Resp: 2945

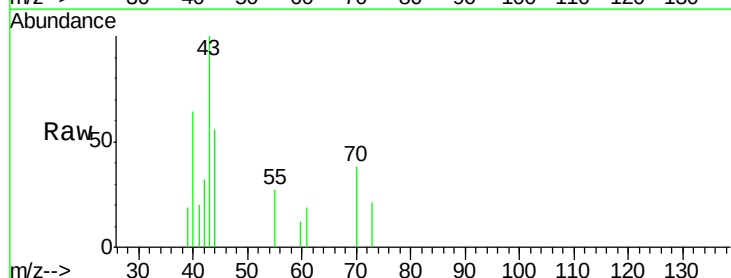
Ion Ratio Lower Upper

43 100

70 30.1 29.4 44.0

55 24.3 19.0 28.4

61 17.0 17.7 26.5#



Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

2000

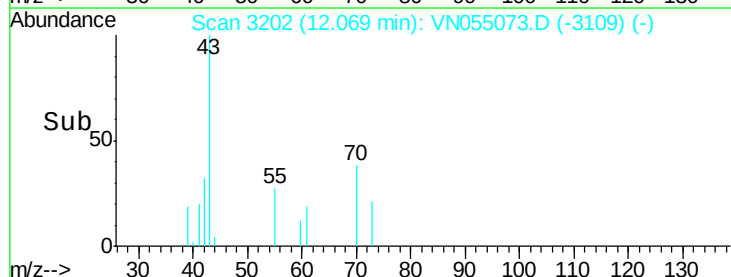
1500

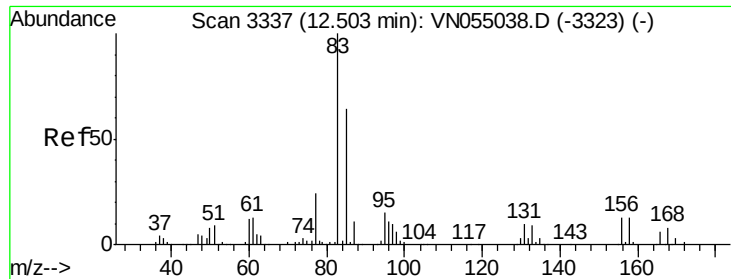
1000

500

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 0.666 ug/l

RT: 12.50 min Scan# 3336

Delta R.T. -0.00 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

Instrument :

MSVOA_N

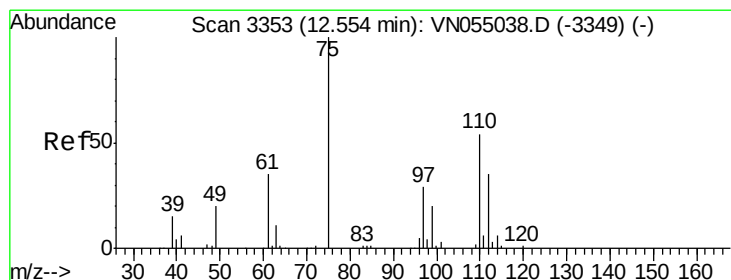
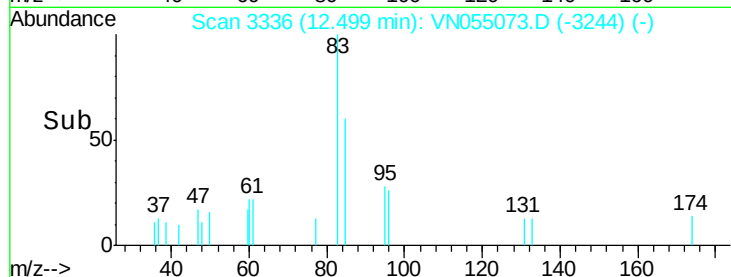
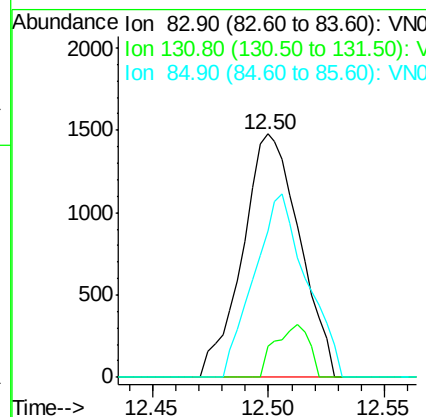
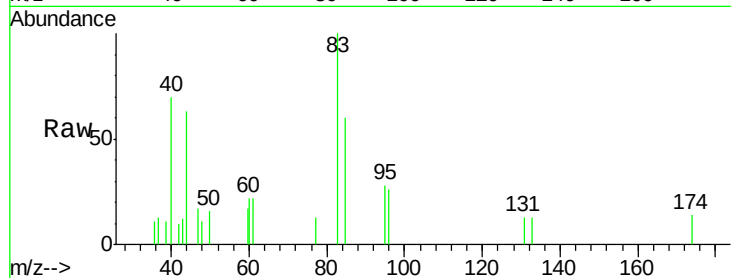
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	83	Resp:	2523
Ion	Ratio	Lower	Upper
83	100		
131	13.0	5.0	15.0
85	69.3	32.3	96.9

Manual Integrations
APPROVED

MMDadoda
4/19/2019 2:46:40 PM



#76

1,2,3-Trichloropropane

Concen: 0.757 ug/l m

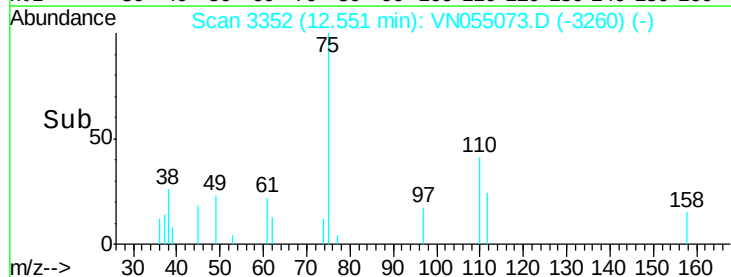
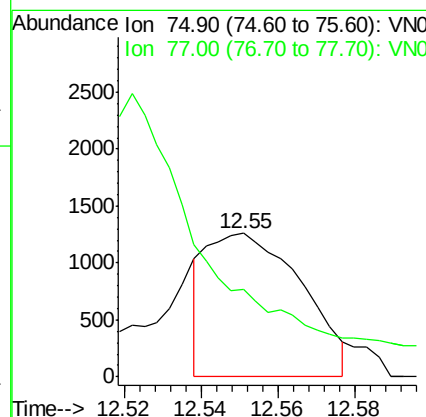
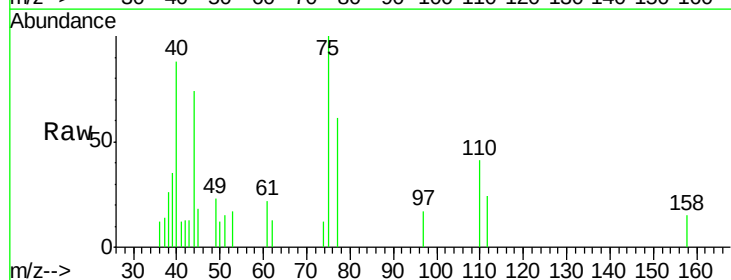
RT: 12.55 min Scan# 3352

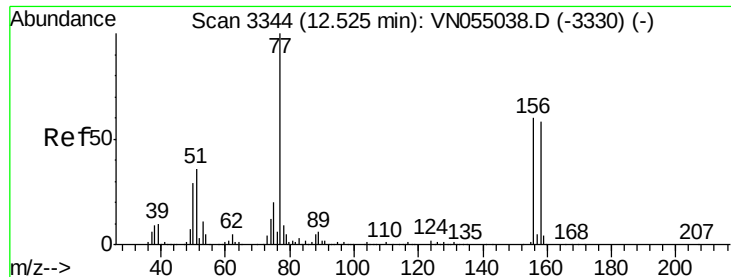
Delta R.T. -0.00 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

Tgt Ion:	75	Resp:	2172
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 0.627 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

Instrument :

MSVOA_N

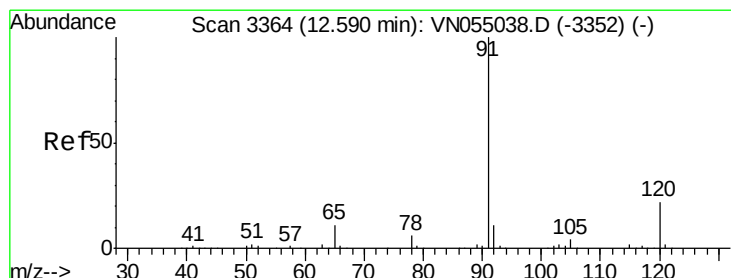
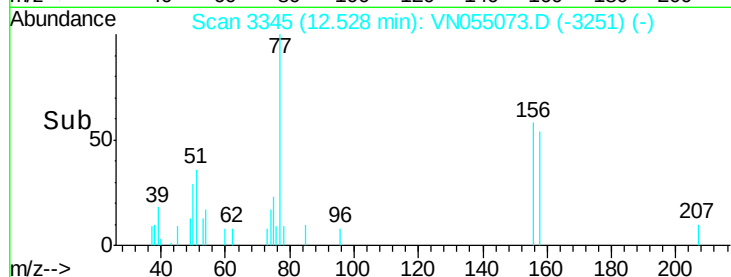
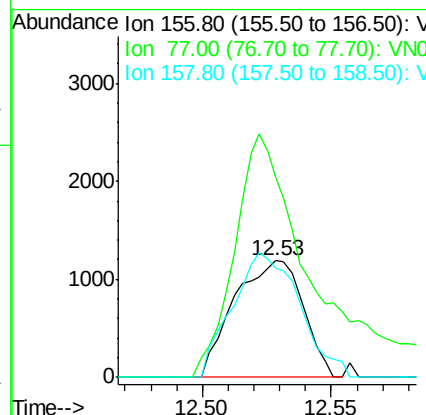
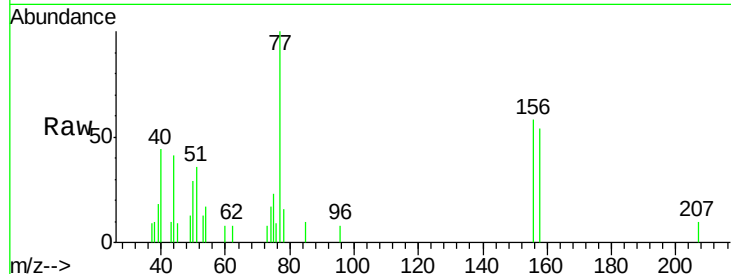
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	156	Resp:	2212
Ion Ratio	Lower	Upper	
156	100		
77	246.6	97.2	291.5
158	104.6	48.6	145.9

Manual Integrations
APPROVED

MMDadoda
4/19/2019 2:46:40 PM



#78

n-propylbenzene

Concen: 0.644 ug/l

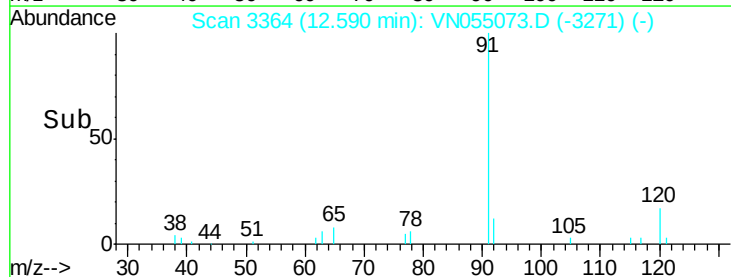
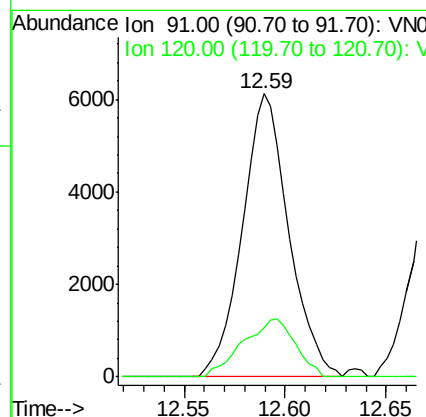
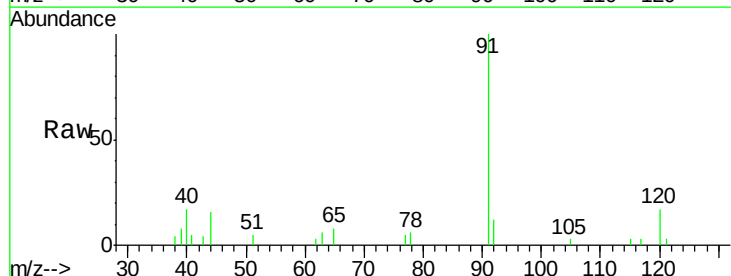
RT: 12.59 min Scan# 3364

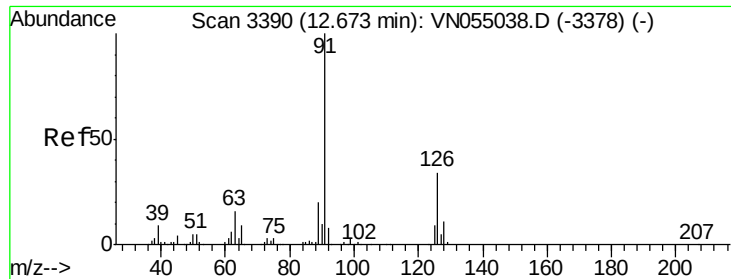
Delta R.T. -0.00 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

Tgt Ion:	91	Resp:	9850
Ion Ratio	Lower	Upper	
91	100		
120	23.0	11.2	33.5





#79

2-Chlorotoluene

Concen: 0.692 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 91 Resp: 6599

Ion Ratio Lower Upper

91 100

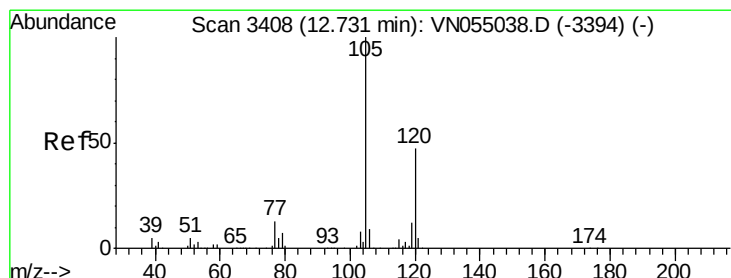
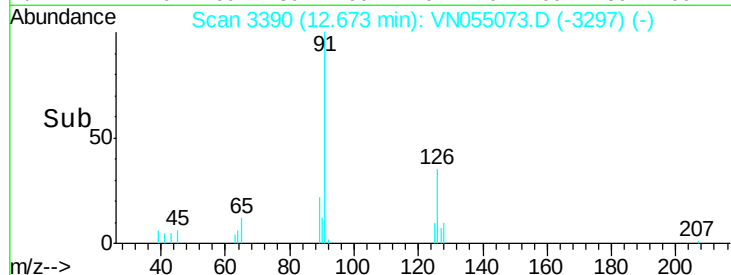
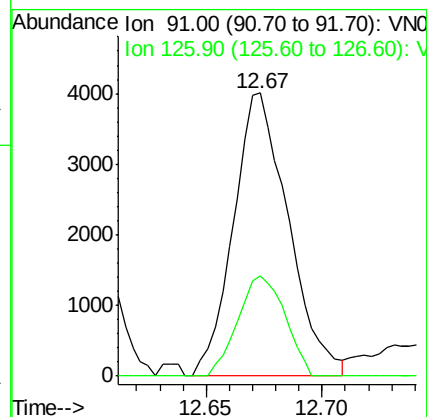
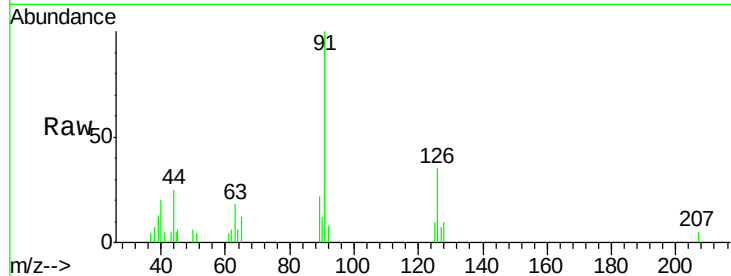
126 30.3 17.1 51.2

Manual Integrations

APPROVED

MMDadoda

4/19/2019 2:46:40 PM



#80

1,3,5-Trimethylbenzene

Concen: 0.693 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN055073.D

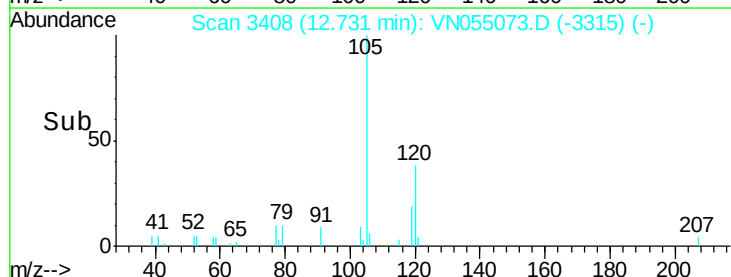
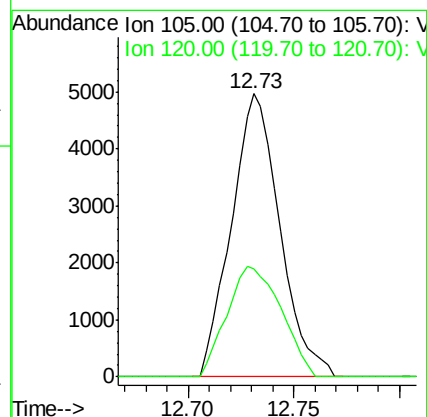
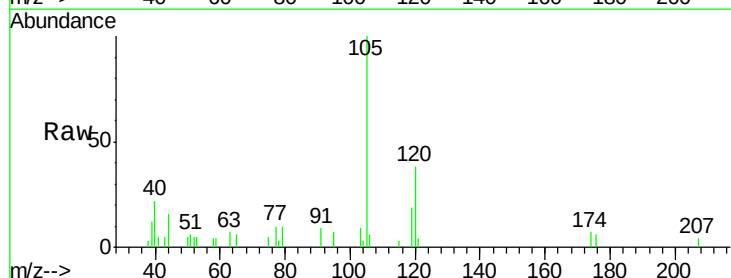
Acq: 16 Apr 2019 12:55

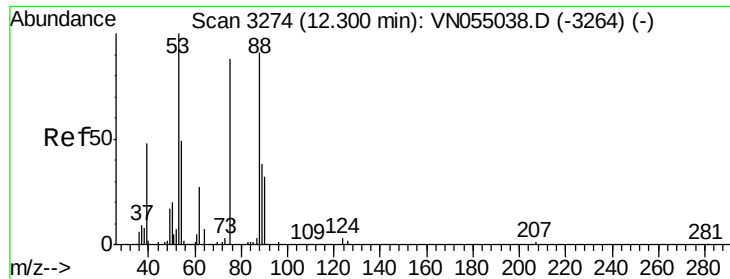
Tgt Ion: 105 Resp: 7922

Ion Ratio Lower Upper

105 100

120 43.5 24.3 72.8





#81

trans-1,4-Dichloro-2-butene

Concen: 0.404 ug/l m

RT: 12.29 min Scan# 3272

Delta R.T. -0.01 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

Instrument :

MSVOA_N

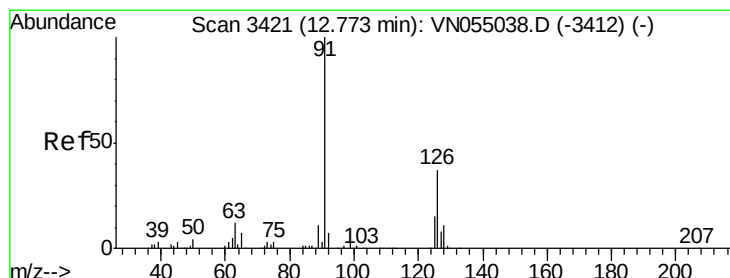
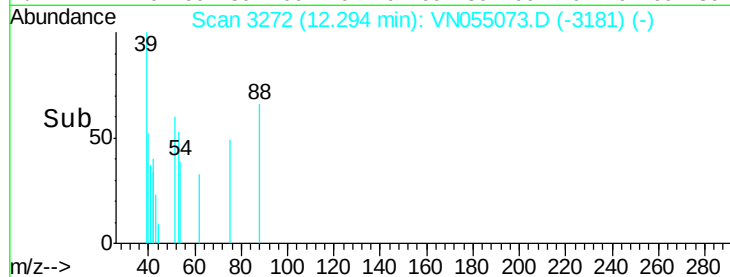
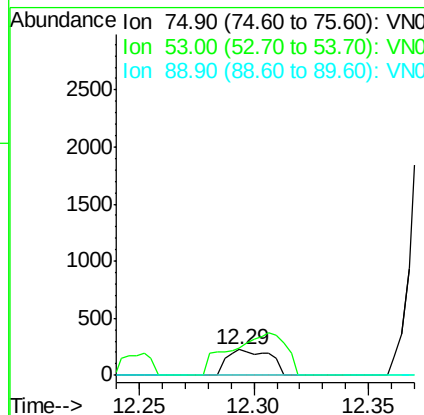
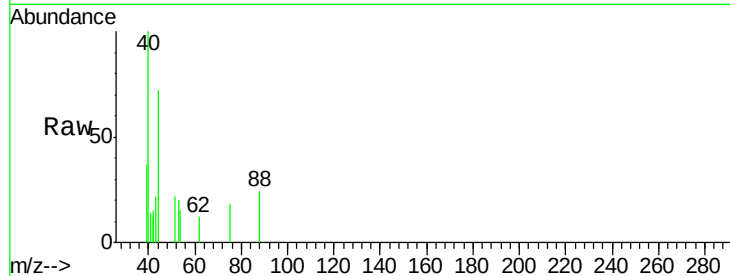
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	75	Resp:	290
Ion	Ratio	Lower	Upper
75	100		
53	23.1	96.3	144.5#
89	0.0	38.6	57.8#

Manual Integrations
APPROVED

MMDadoda
4/19/2019 2:46:40 PM



#82

4-Chlorotoluene

Concen: 0.637 ug/l

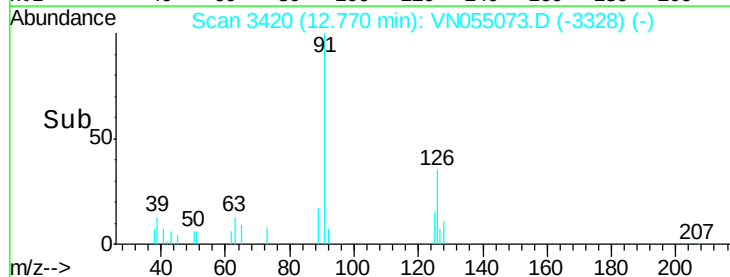
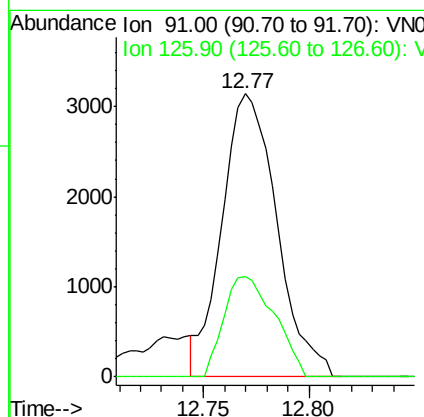
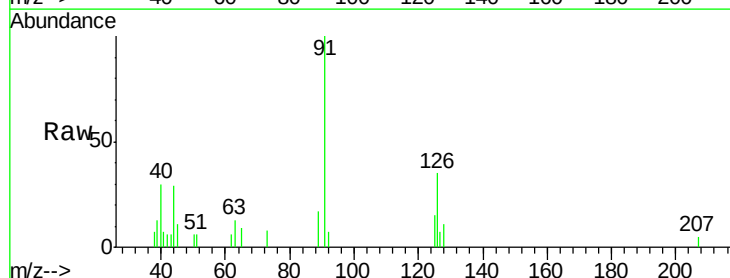
RT: 12.77 min Scan# 3420

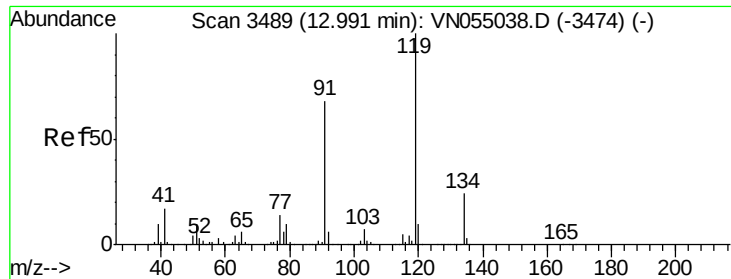
Delta R.T. -0.00 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

Tgt Ion:	91	Resp:	5673
Ion	Ratio	Lower	Upper
91	100		
126	32.8	16.4	49.2





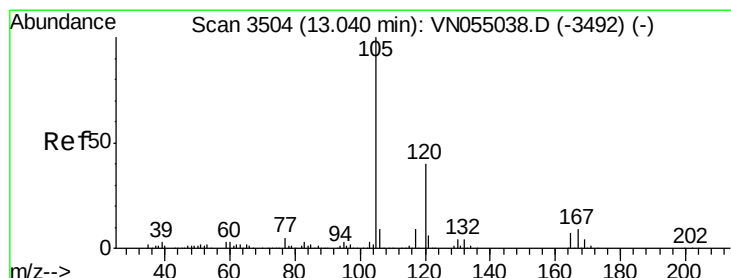
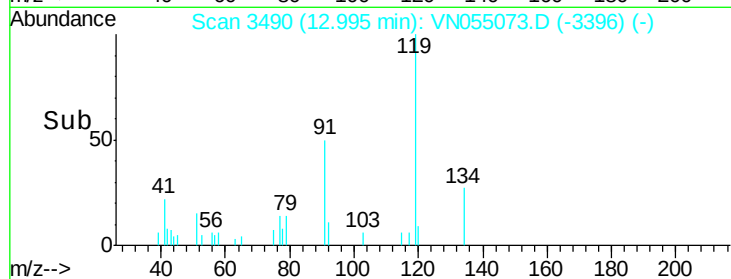
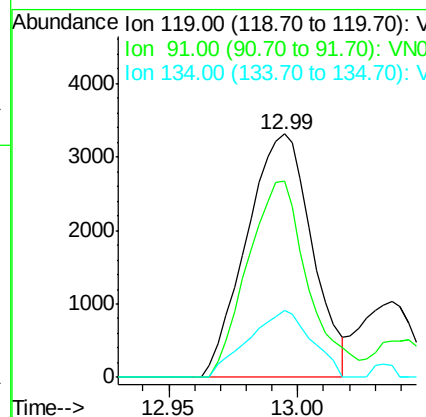
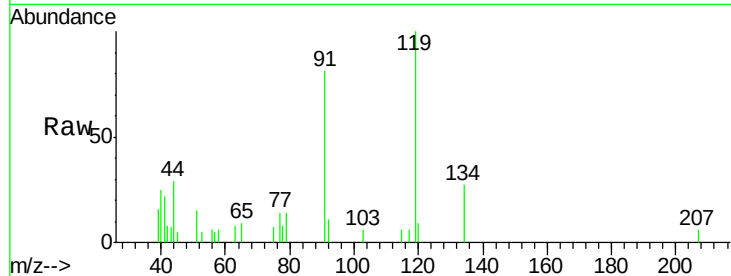
#83
 tert-Butylbenzene
 Concen: 0.607 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN055073.D
 Acq: 16 Apr 2019 12:55

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT2-2019

Tot Ion	Ratio	Lower	Upper
119	100		
91	74.5	33.3	99.8
134	26.6	12.3	36.9

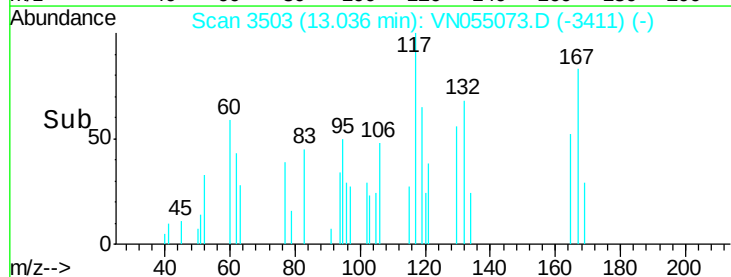
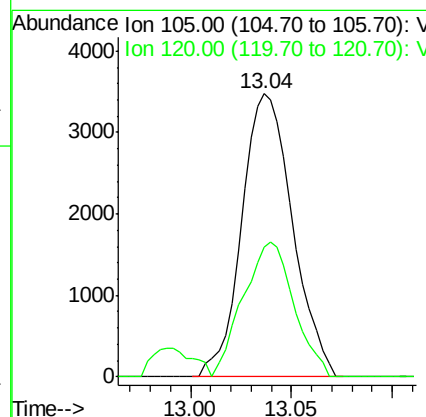
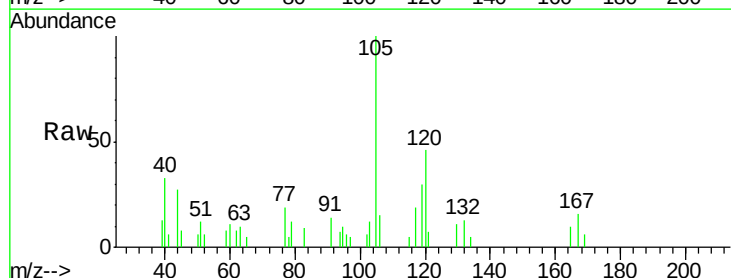
Manual Integrations
 APPROVED

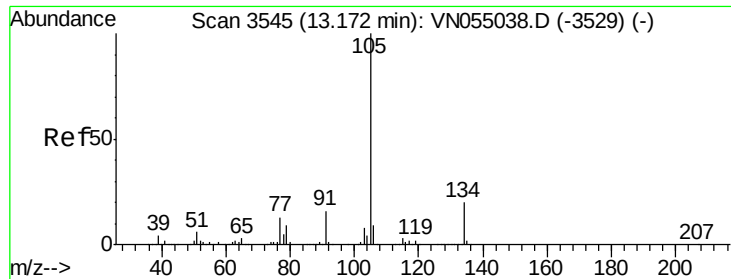
MMDadoda
 4/19/2019 2:46:40 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 0.564 ug/l
 RT: 13.04 min Scan# 3503
 Delta R.T. -0.00 min
 Lab File: VN055073.D
 Acq: 16 Apr 2019 12:55

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.8	22.4	67.3





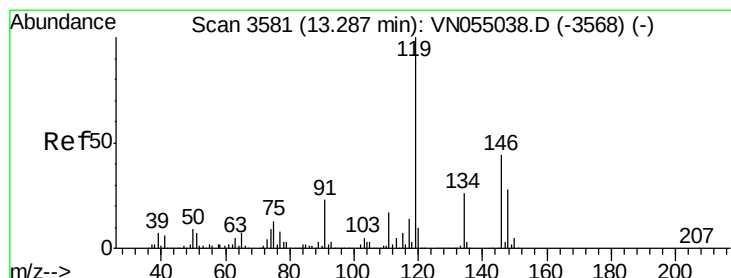
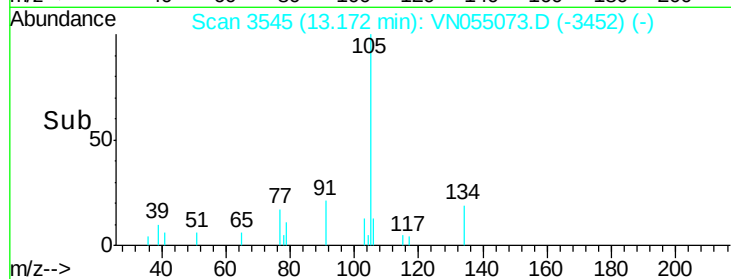
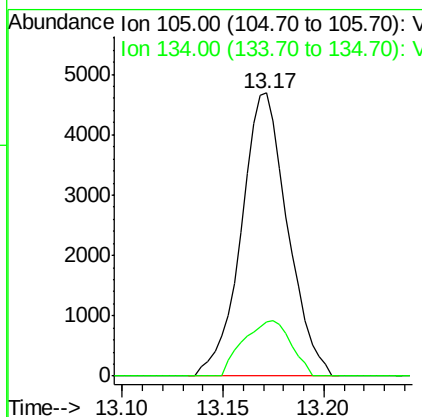
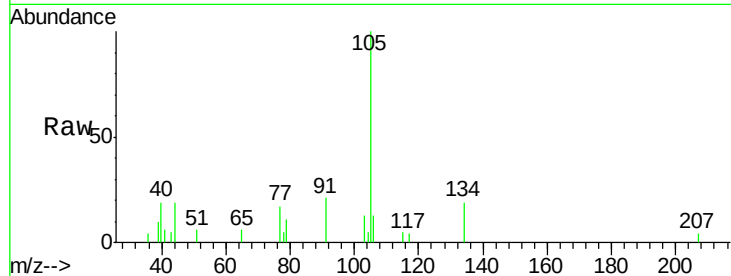
#85
 sec-Butylbenzene
 Concen: 0.614 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. -0.00 min
 Lab File: VN055073.D
 Acq: 16 Apr 2019 12:55

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT2-2019

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.1	9.8	29.3

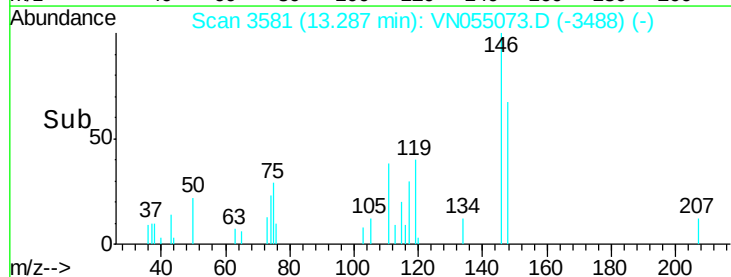
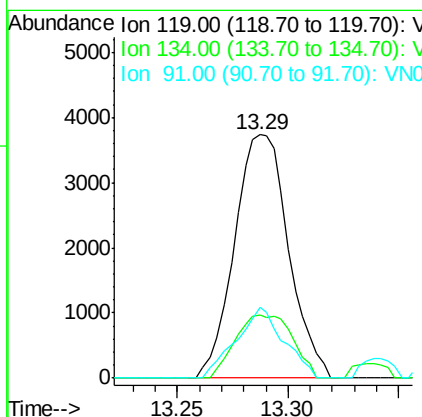
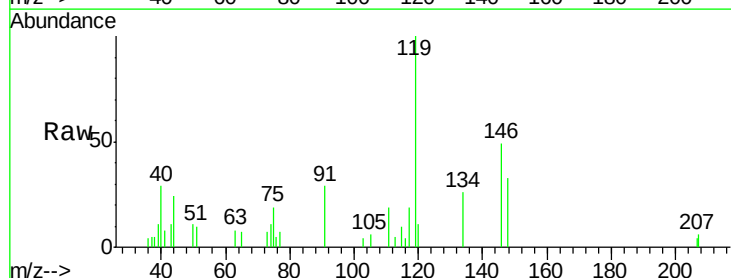
Manual Integrations
 APPROVED

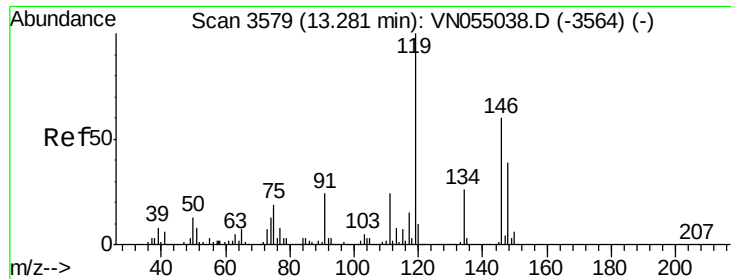
MMDadoda
 4/19/2019 2:46:40 PM



#86
 p-Isopropyltoluene
 Concen: 0.600 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.00 min
 Lab File: VN055073.D
 Acq: 16 Apr 2019 12:55

Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.3	13.2	39.5
91	25.6	11.7	35.1





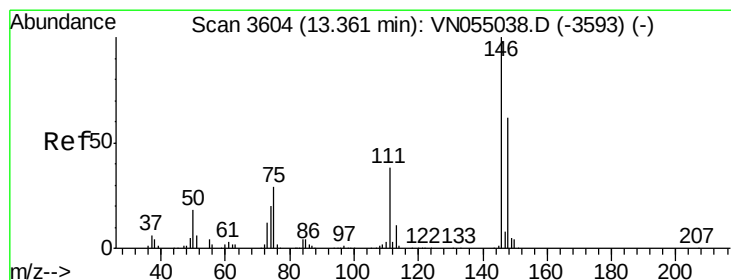
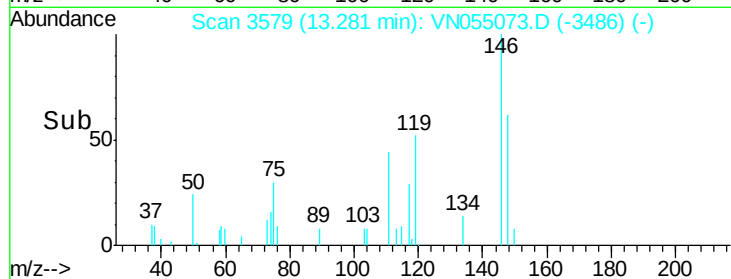
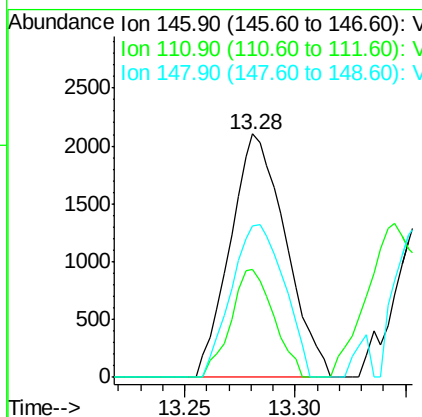
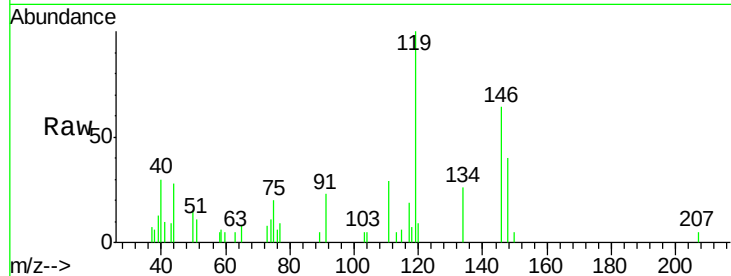
#87
 1,3-Dichlorobenzene
 Concen: 0.682 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN055073.D
 Acq: 16 Apr 2019 12:55

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT2-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	34.6	19.5	58.5
148	59.8	31.6	94.7

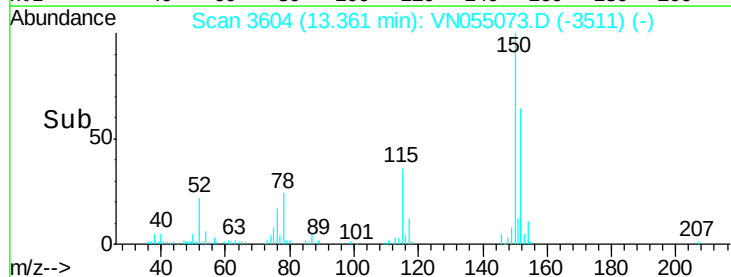
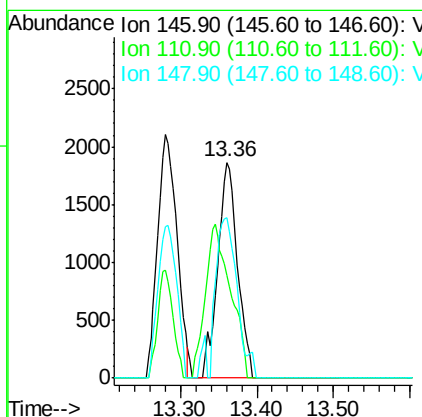
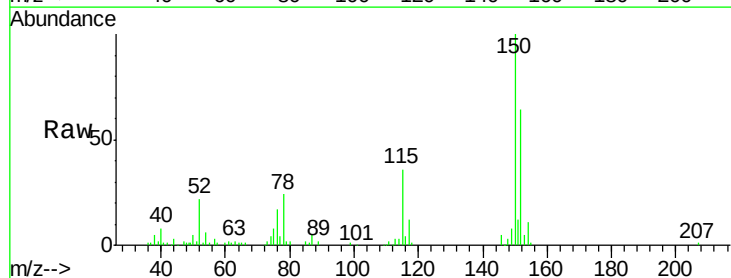
Manual Integrations
 APPROVED

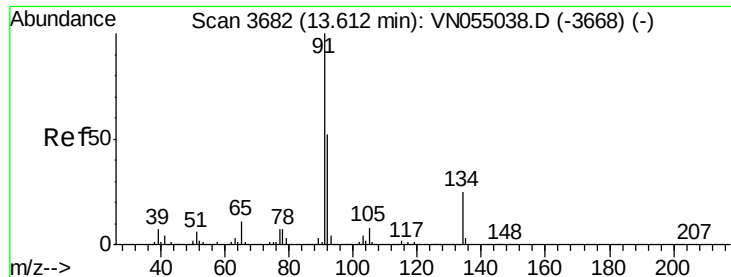
MMDadoda
 4/19/2019 2:46:40 PM



#88
 1,4-Dichlorobenzene
 Concen: 0.654 ug/l m
 RT: 13.36 min Scan# 3604
 Delta R.T. -0.00 min
 Lab File: VN055073.D
 Acq: 16 Apr 2019 12:55

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.8	18.8	56.4
148	65.5	32.4	97.2





#89

n-Butylbenzene

Concen: 0.648 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

Instrument :

MSVOA_N

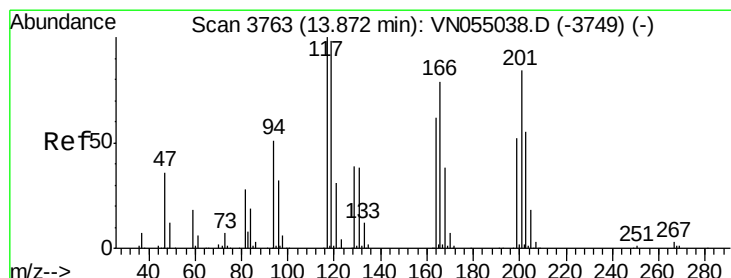
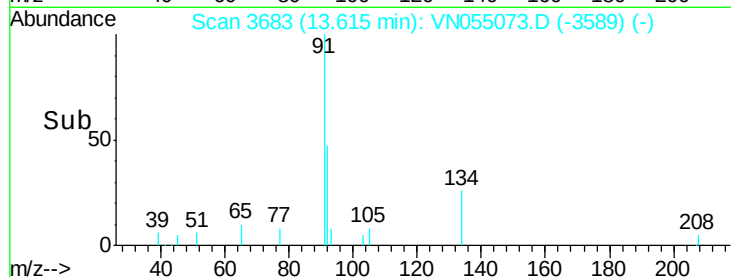
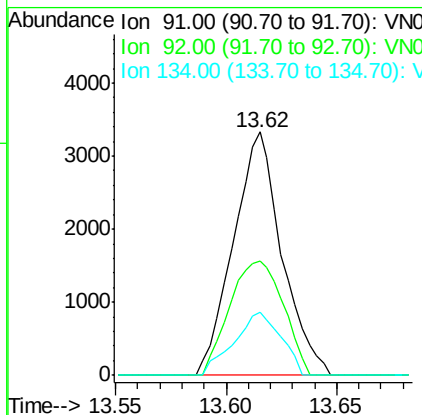
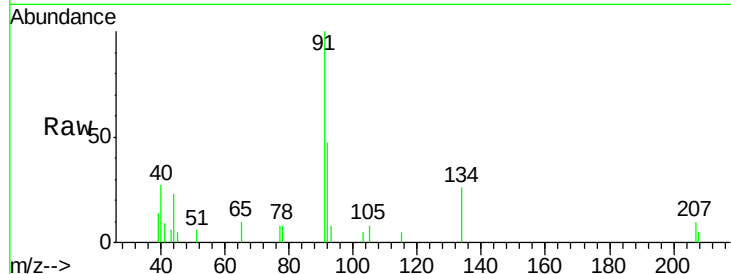
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	91	Resp:	5076
Ion	Ratio	Lower	Upper
91	100		
92	52.0	25.9	77.7
134	25.2	12.8	38.3

Manual Integrations
APPROVED

MMDadoda
4/19/2019 2:46:40 PM



#90

Hexachloroethane

Concen: 0.683 ug/l

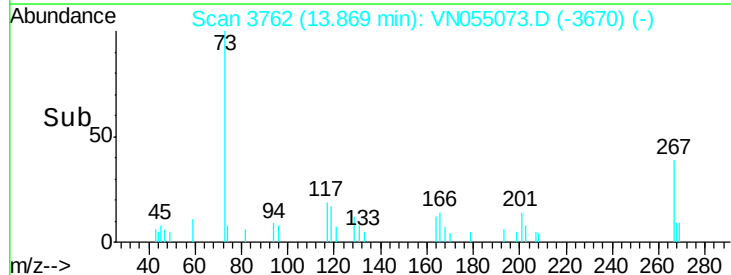
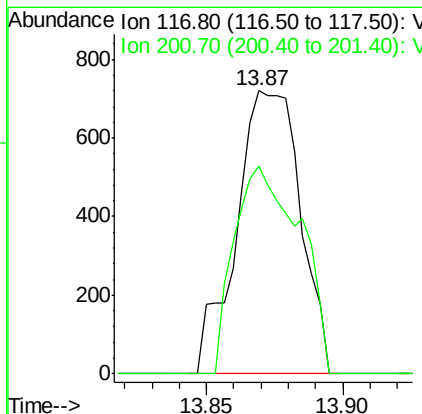
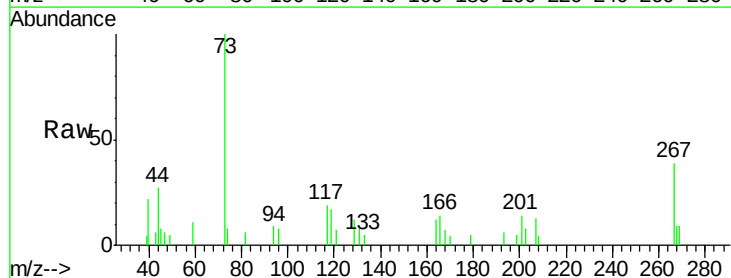
RT: 13.87 min Scan# 3762

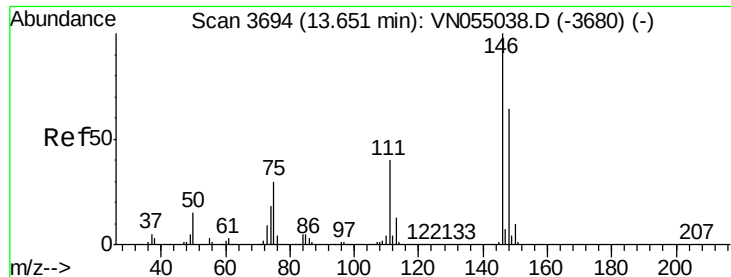
Delta R.T. -0.00 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

Tgt Ion:	117	Resp:	1173
Ion	Ratio	Lower	Upper
117	100		
201	75.9	43.4	130.2





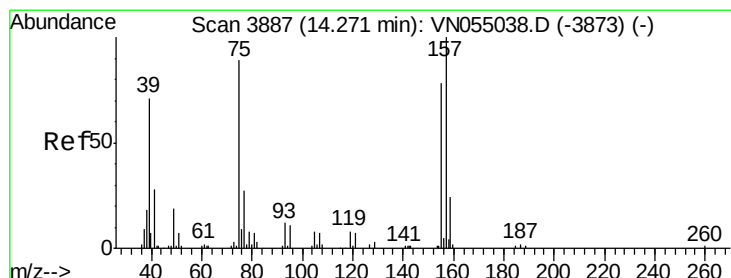
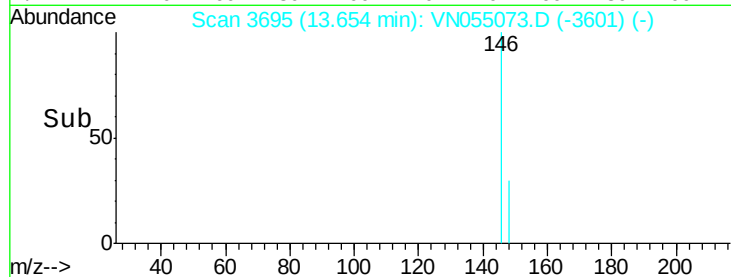
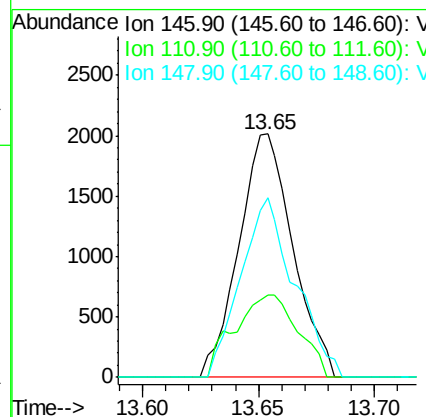
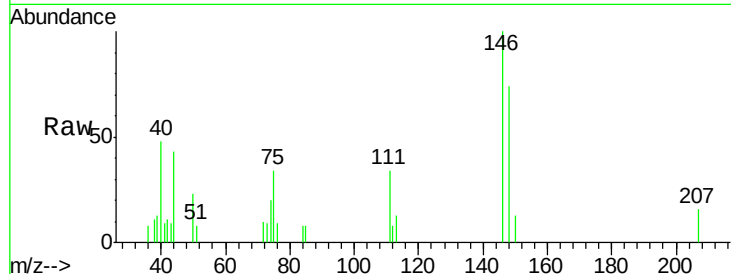
#91
 1,2-Dichlorobenzene
 Concen: 0.604 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN055073.D
 Acq: 16 Apr 2019 12:55

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT2-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.8	20.3	60.9
148	73.7	32.2	96.6

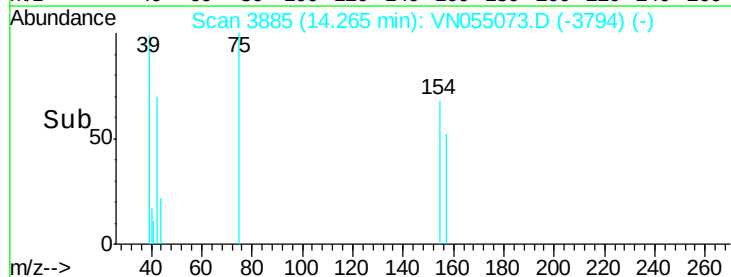
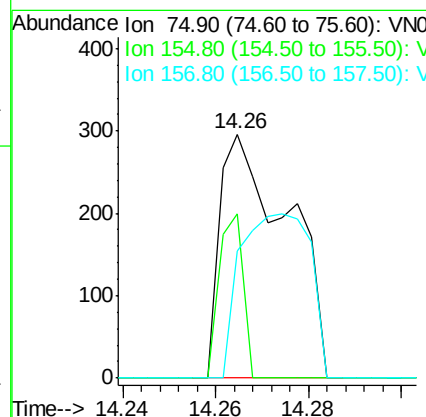
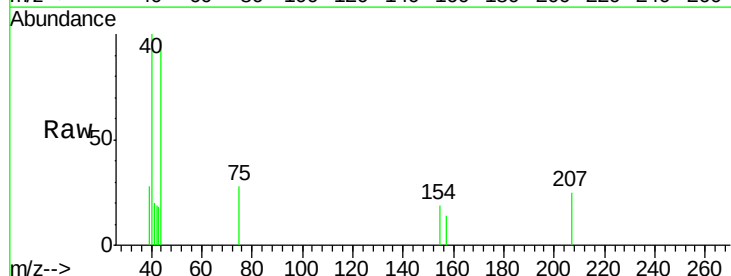
Manual Integrations
 APPROVED

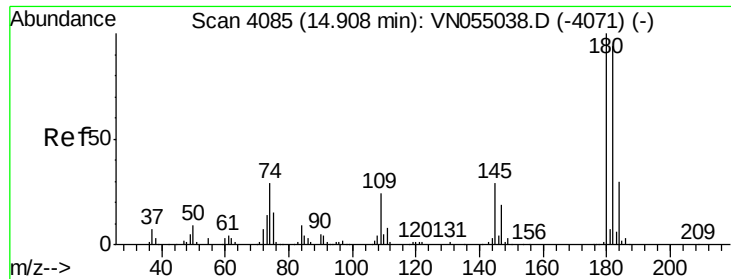
MMDadoda
 4/19/2019 2:46:40 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.645 ug/l
 RT: 14.26 min Scan# 3885
 Delta R.T. -0.01 min
 Lab File: VN055073.D
 Acq: 16 Apr 2019 12:55

Tgt Ion	Ratio	Lower	Upper
75	100		
155	23.9	42.0	126.0#
157	69.8	52.1	156.4





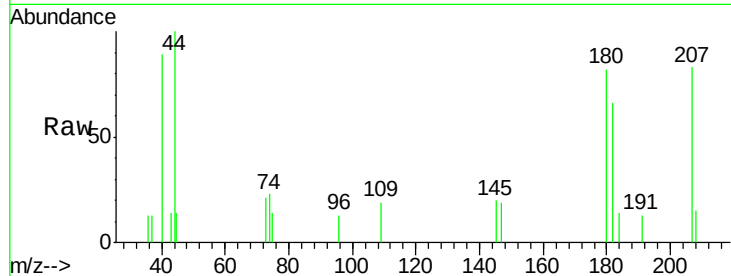
#93
 1,2,4-Trichlorobenzene
 Concen: 0.772 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN055073.D
 Acq: 16 Apr 2019 12:55

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT2-2019

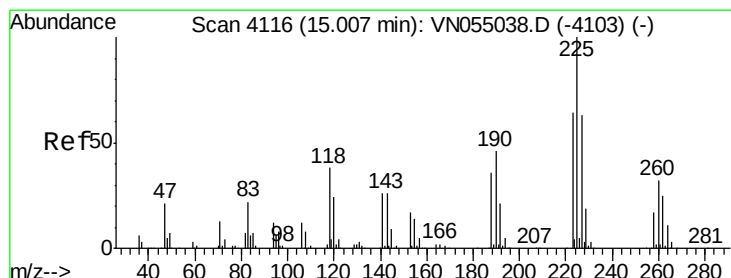
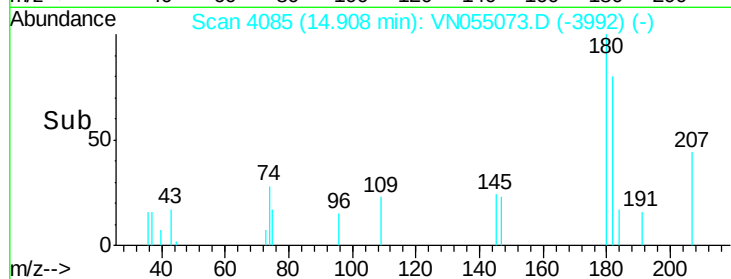
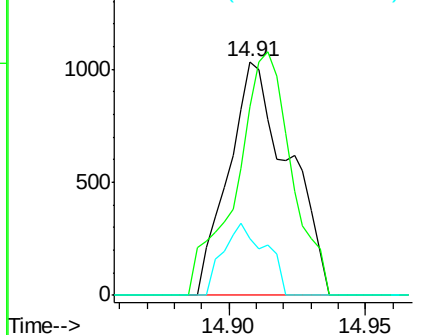
Tot Ion:	180	Resp:	1587
Ion Ratio	Lower	Upper	
180	100		
182	95.4	47.5	142.6
145	22.1	14.2	42.8

Manual Integrations
 APPROVED

MMDadoda
 4/19/2019 2:46:40 PM

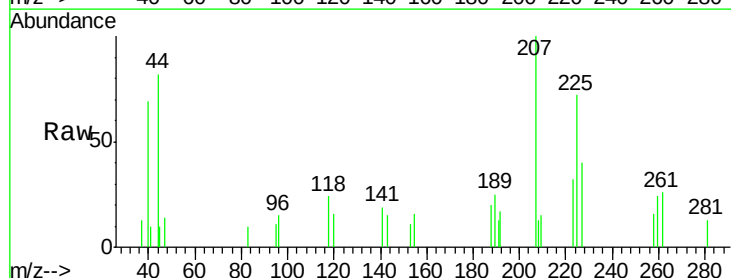


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

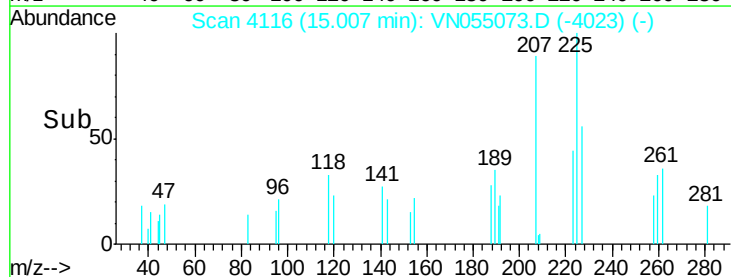
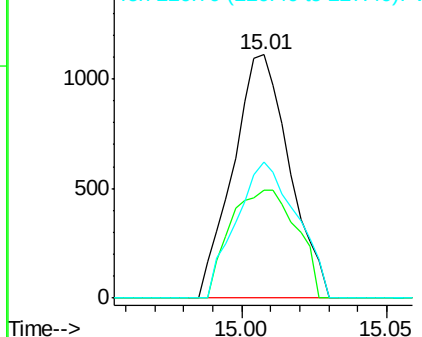


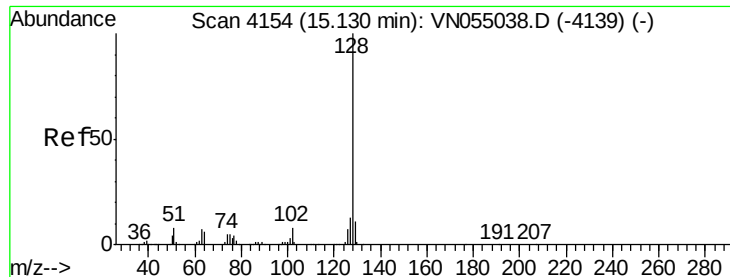
#94
 Hexachlorobutadiene
 Concen: 0.900 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN055073.D
 Acq: 16 Apr 2019 12:55

Tgt Ion:	225	Resp:	1501
Ion Ratio	Lower	Upper	
225	100		
223	52.2	31.4	94.0
227	60.0	32.6	97.7



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 0.663 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

Instrument :

MSVOA_N

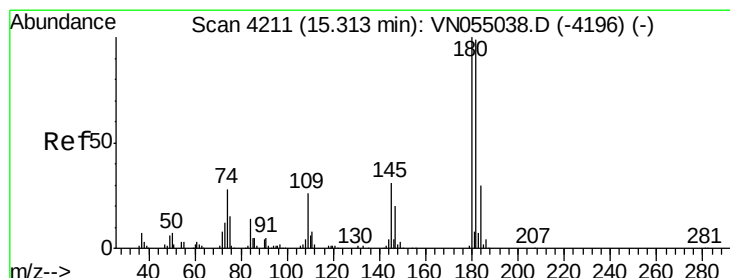
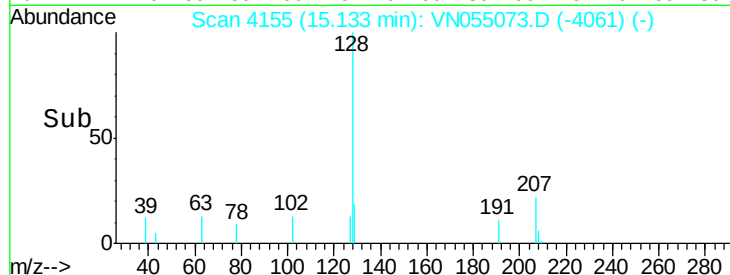
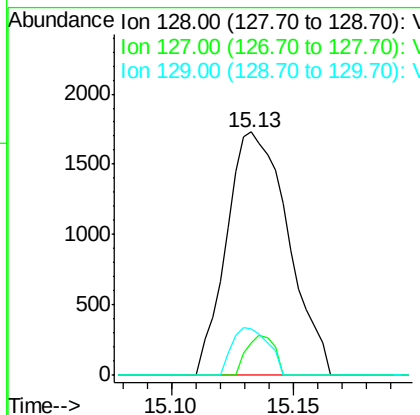
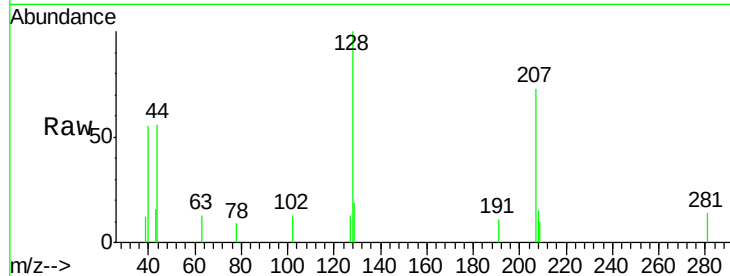
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	128	Resp:	3028
Ion Ratio	Lower	Upper	
128	100		
127	7.3	10.1	15.1#
129	11.5	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
4/19/2019 2:46:40 PM



#96

1,2,3-Trichlorobenzene

Concen: 0.876 ug/l

RT: 15.31 min Scan# 4209

Delta R.T. -0.01 min

Lab File: VN055073.D

Acq: 16 Apr 2019 12:55

Tgt Ion:	180	Resp:	1825
Ion Ratio	Lower	Upper	
180	100		
182	47.8	48.0	144.0#
145	19.7	15.3	45.9

