

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040519\
 Data File : VN054964.D
 Acq On : 5 Apr 2019 10:27
 Operator : JC/SP
 Sample : K2241-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

MMDadoda
 4/8/2019 3:34:05 AM

Quant Time: Apr 05 23:57:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N040419W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 05 02:23:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	420471	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	697254	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	597021	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	197261	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	304768	54.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.94%	
35) Dibromofluoromethane	7.59	113	242537	53.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.88%	
50) Toluene-d8	10.09	98	887789	51.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.10%	
62) 4-Bromofluorobenzene	12.40	95	262330	45.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.28%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	2692	0.535	ug/l	92
3) Chloromethane	2.06	50	3615	0.544	ug/l	98
4) Vinyl Chloride	2.19	62	3301	0.568	ug/l	93
5) Bromomethane	2.57	94	3453	1.041	ug/l	81
6) Chloroethane	2.71	64	1992	0.615	ug/l	99
7) Trichlorofluoromethane	3.03	101	4122	0.585	ug/l #	84
8) Diethyl Ether	3.42	74	986	0.439	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.76	101	2283	0.611	ug/l #	70
10) Methyl Iodide	3.94	142	10512	1.996	ug/l	95
11) Tert butyl alcohol	4.81	59	1933	6.757	ug/l	97
12) 1,1-Dichloroethene	3.74	96	2267	0.612	ug/l #	63
13) Acrolein	3.61	56	2986	10.936	ug/l #	76
14) Allyl chloride	4.32	41	4767	0.580	ug/l #	74
15) Acrylonitrile	5.00	53	4032	2.350	ug/l #	68
16) Acetone	3.82	43	5009	Below Cal		92
17) Carbon Disulfide	4.05	76	7432	0.630	ug/l	99
18) Methyl Acetate	4.33	43	3337	Below Cal		92
19) Methyl tert-butyl Ether	5.06	73	6287	0.523	ug/l	99
20) Methylene Chloride	4.55	84	3360	0.653	ug/l	89
21) trans-1,2-Dichloroethene	5.03	96	2536m	0.548	ug/l	
22) Diisopropyl ether	5.96	45	9810	0.581	ug/l #	94
23) Vinyl Acetate	5.91	43	24007	2.042	ug/l	100
24) 1,1-Dichloroethane	5.84	63	5159	0.560	ug/l #	85
25) 2-Butanone	6.87	43	5082	2.441	ug/l #	84
26) 2,2-Dichloropropane	6.82	77	3233	0.501	ug/l #	71
27) cis-1,2-Dichloroethene	6.82	96	2898	0.552	ug/l	96
28) Bromochloromethane	7.20	49	2397m	0.555	ug/l	
29) Tetrahydrofuran	7.23	42	3933m	2.883	ug/l	
30) Chloroform	7.38	83	4812	0.551	ug/l	96
31) Cyclohexane	7.66	56	13399	Below Cal	#	6
32) 1,1,1-Trichloroethane	7.57	97	3938m	0.534	ug/l	
36) 1,1-Dichloropropene	7.80	75	4315m	0.625	ug/l	
37) Ethyl Acetate	6.96	43	1931m	0.407	ug/l	
38) Carbon Tetrachloride	7.77	117	4268	0.640	ug/l	88

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	4118	0.542	ug/l	91
40) Benzene	8.04	78	10945	0.551	ug/l	98
41) Methacrylonitrile	7.17	41	725	0.267	ug/l #	83
42) 1,2-Dichloroethane	8.13	62	4532	0.649	ug/l	84
43) Isopropyl Acetate	8.17	43	4596	0.575	ug/l #	84
44) Trichloroethene	8.83	130	2810	0.553	ug/l	96
45) 1,2-Dichloropropane	9.12	63	2530	0.457	ug/l	95
46) Dibromomethane	9.21	93	1495	0.476	ug/l #	81
47) Bromodichloromethane	9.41	83	3455	0.524	ug/l #	90
48) Methyl methacrylate	9.20	41	1541	0.381	ug/l #	57
49) 1,4-Dioxane	9.21	88	437	10.704	ug/l #	42
51) 4-Methyl-2-Pentanone	9.99	43	11521	2.585	ug/l	99
52) Toluene	10.15	92	6073	0.518	ug/l	89
53) t-1,3-Dichloropropene	10.38	75	2831	2.425	ug/l #	71
54) cis-1,3-Dichloropropene	9.84	75	3442	0.464	ug/l	91
55) 1,1,2-Trichloroethane	10.56	97	2393	0.563	ug/l	94
56) Ethyl methacrylate	10.43	69	2354	0.424	ug/l #	79
57) 1,3-Dichloropropane	10.71	76	3710	0.500	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.69	63	4328	11.539	ug/l	98
59) 2-Hexanone	10.76	43	5884	2.113	ug/l	96
60) Dibromochloromethane	10.90	129	1895	0.426	ug/l	94
61) 1,2-Dibromoethane	11.01	107	2271	0.569	ug/l #	76
64) Tetrachloroethene	10.63	164	2508	0.521	ug/l #	77
65) Chlorobenzene	11.43	112	6511	0.535	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.50	131	2102	0.472	ug/l #	64
67) Ethyl Benzene	11.51	91	11009	0.502	ug/l	97
68) m/p-Xylenes	11.62	106	8268	1.031	ug/l	96
69) o-Xylene	11.95	106	3694	0.472	ug/l	96
70) Styrene	11.96	104	5850	0.466	ug/l	93
71) Bromoform	12.12	173	1040	0.388	ug/l #	100
73) Isopropylbenzene	12.25	105	10043	0.603	ug/l	97
74) N-amyl acetate	12.08	43	2307	0.498	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.50	83	2662	Below Cal	#	83
76) 1,2,3-Trichloropropane	12.55	75	2604m	Below Cal		
77) Bromobenzene	12.53	156	2499	0.619	ug/l	91
78) n-propylbenzene	12.59	91	10913	0.594	ug/l	99
79) 2-Chlorotoluene	12.68	91	6970	0.613	ug/l	97
80) 1,3,5-Trimethylbenzene	12.73	105	7779	0.568	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.31	75	322m	0.377	ug/l	
82) 4-Chlorotoluene	12.77	91	5982	0.556	ug/l	99
83) tert-Butylbenzene	12.99	119	7211	0.619	ug/l	96
84) 1,2,4-Trimethylbenzene	13.04	105	7141	0.539	ug/l	93
85) sec-Butylbenzene	13.17	105	8872	0.589	ug/l	100
86) p-Isopropyltoluene	13.29	119	7585	0.585	ug/l	97
87) 1,3-Dichlorobenzene	13.28	146	3761	0.560	ug/l	97
88) 1,4-Dichlorobenzene	13.36	146	3943m	0.617	ug/l	
89) n-Butylbenzene	13.61	91	4903	0.473	ug/l	93
90) Hexachloroethane	13.88	117	1153	0.529	ug/l	93
91) 1,2-Dichlorobenzene	13.65	146	3932	0.597	ug/l	96
93) 1,2,4-Trichlorobenzene	14.91	180	1664	2.913	ug/l #	82

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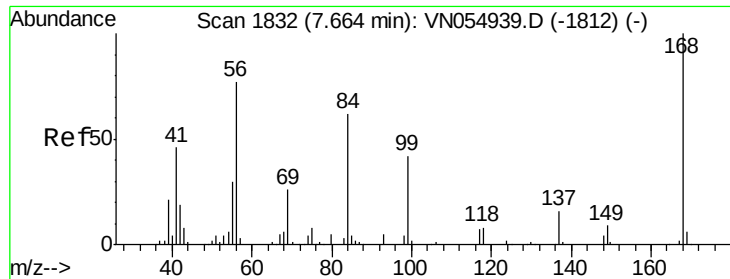
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	15.00	225	1317	0.597	ug/l	87
95) Naphthalene	15.13	128	3313	3.287	ug/l #	89
96) 1,2,3-Trichlorobenzene	15.31	180	1897	0.627	ug/l	63

(#) = 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: VN054964.D

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Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:168 Resp: 420471

Ion Ratio Lower Upper

168 100

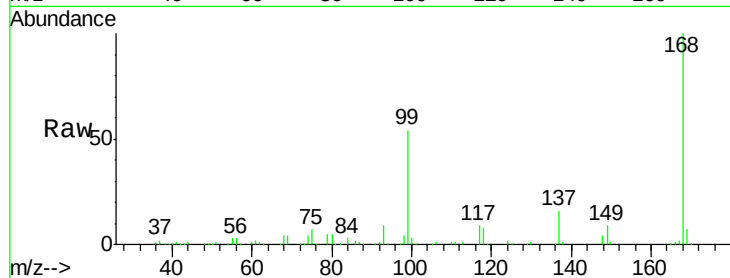
99 54.0 44.1 66.1

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Abundance Ion 167.90 (167.60 to 168.60): VN054939.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN054939.D (-1812) (-)

7.66

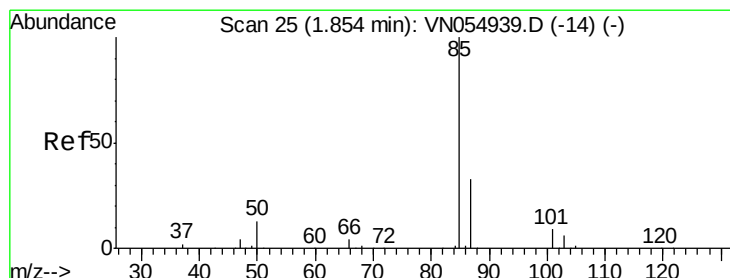
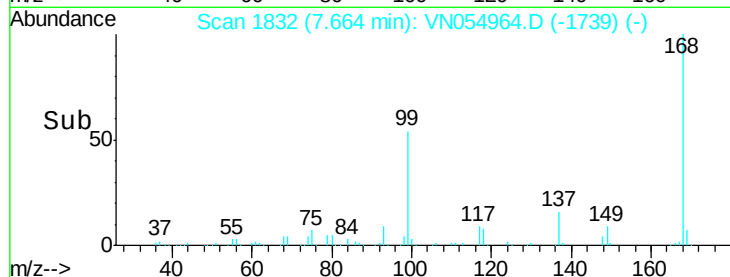
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.535 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN054964.D

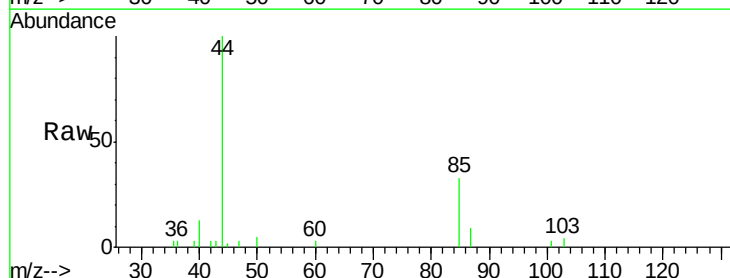
Acq: 5 Apr 2019 10:27

Tgt Ion: 85 Resp: 2692

Ion Ratio Lower Upper

85 100

87 27.7 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VN054939.D (-14) (-)

Ion 86.90 (86.60 to 87.60): VN054939.D (-14) (-)

1.85

2500

2000

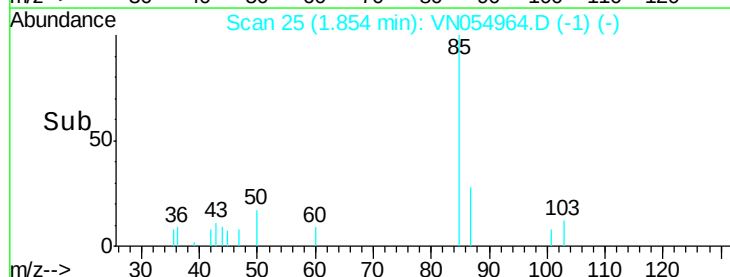
1500

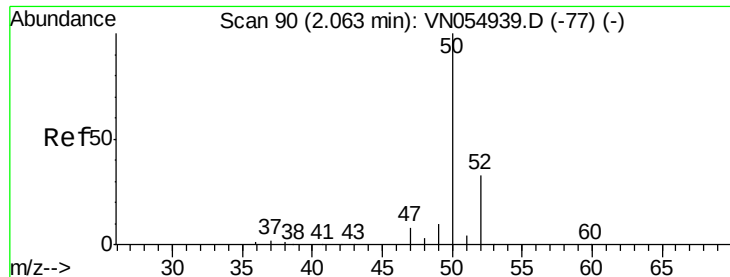
1000

500

0

Time-->





#3

Chloromethane

Concen: 0.544 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 50 Resp: 3615

Ion Ratio Lower Upper

50 100

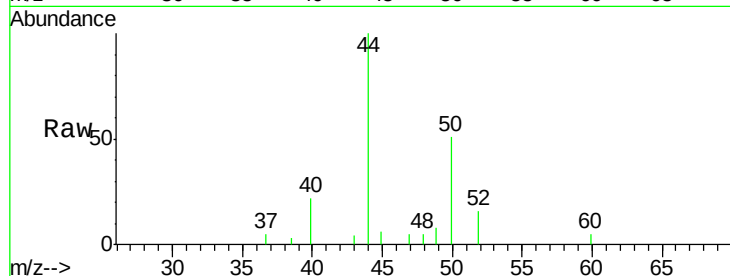
52 31.5 26.2 39.4

Manual Integrations

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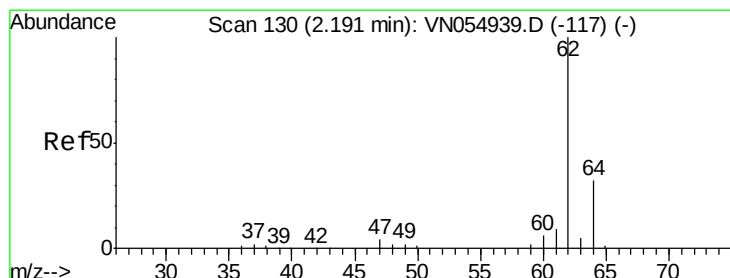
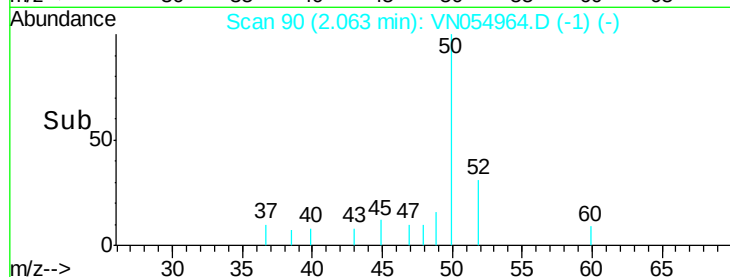
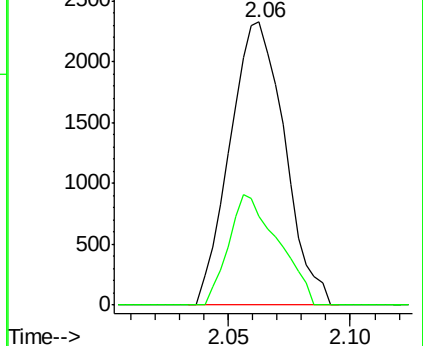
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Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



#4

Vinyl Chloride

Concen: 0.568 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN054964.D

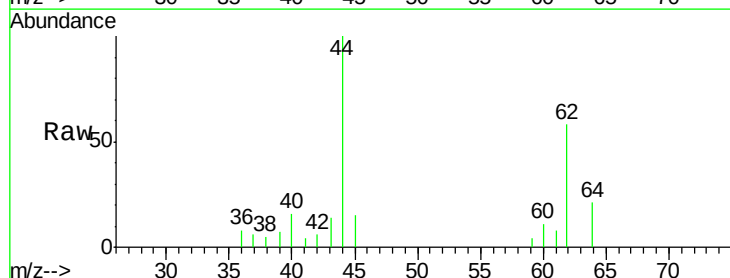
Acq: 5 Apr 2019 10:27

Tgt Ion: 62 Resp: 3301

Ion Ratio Lower Upper

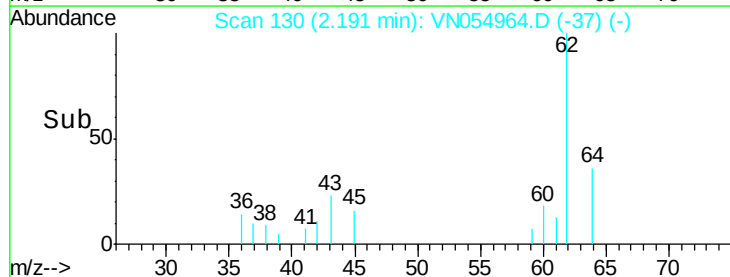
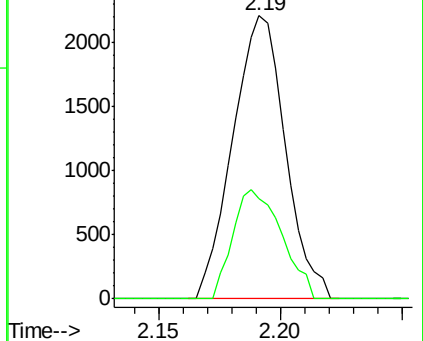
62 100

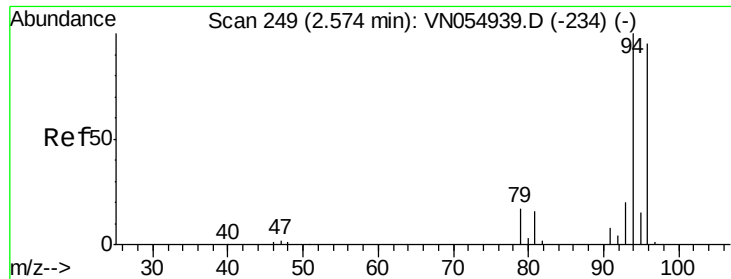
64 35.7 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0





#5

Bromomethane

Concen: 1.041 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

Instrument :

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ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 94 Resp: 3453

Ion Ratio Lower Upper

94 100

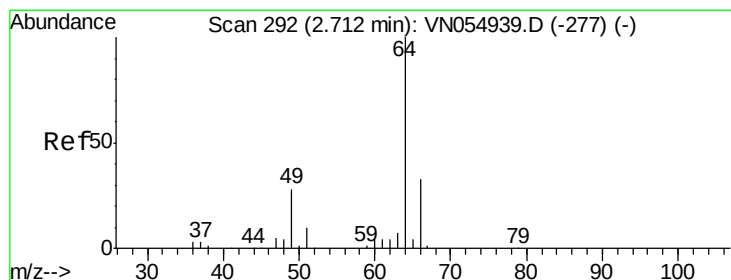
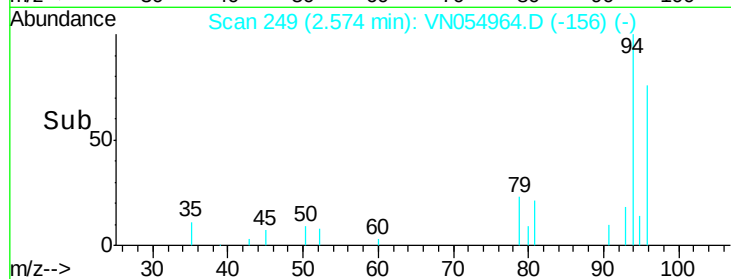
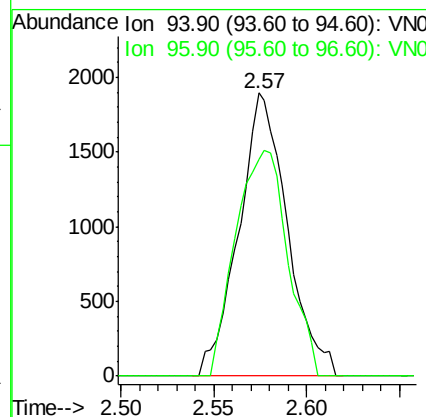
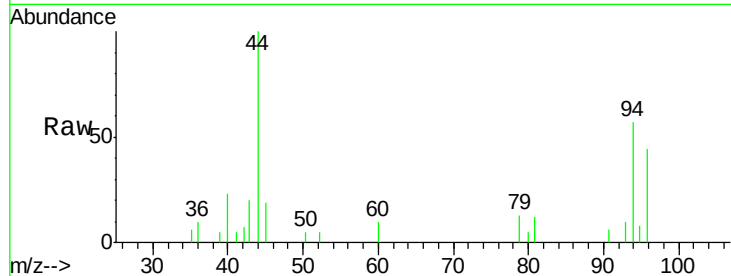
96 76.4 75.7 113.5

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#6

Chloroethane

Concen: 0.615 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN054964.D

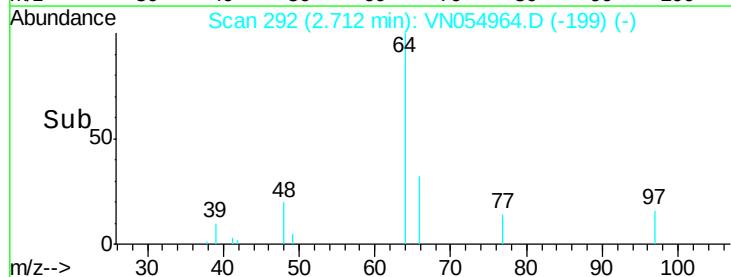
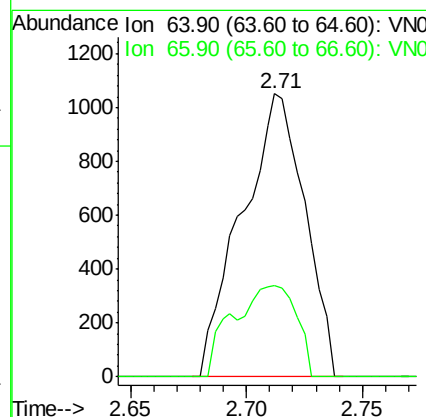
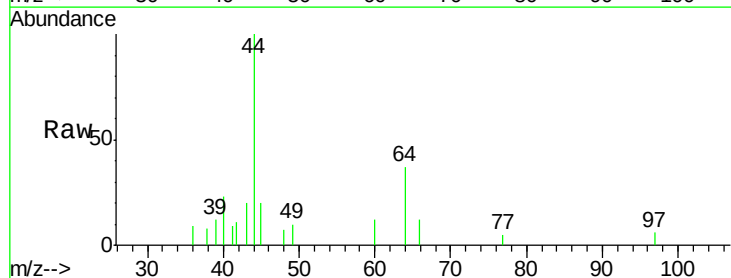
Acq: 5 Apr 2019 10:27

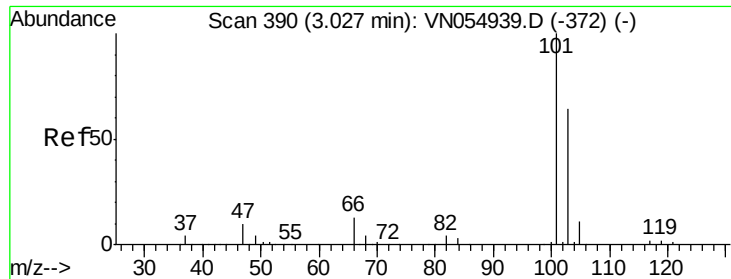
Tgt Ion: 64 Resp: 1992

Ion Ratio Lower Upper

64 100

66 32.2 26.2 39.4





#7

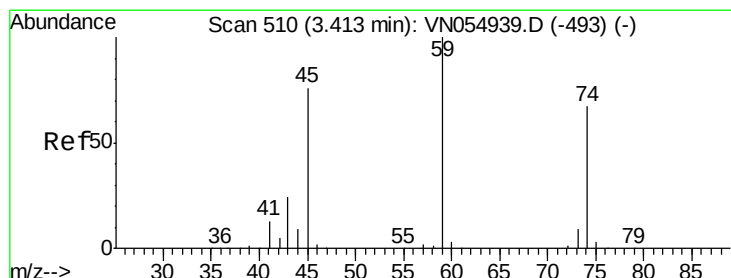
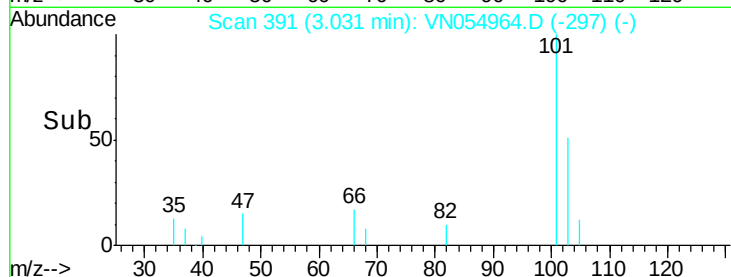
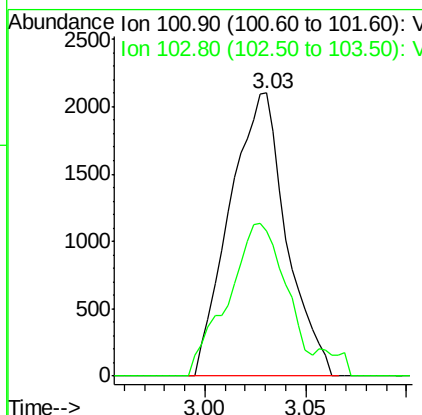
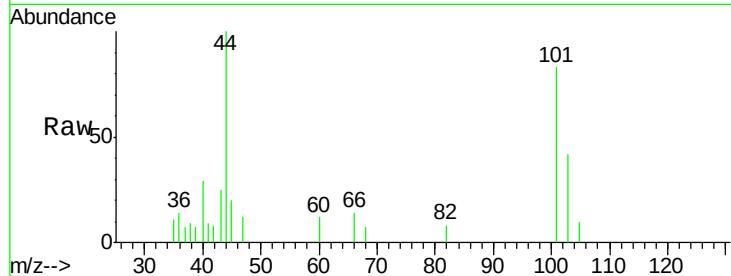
Trichlorofluoromethane
Concen: 0.585 ug/l
RT: 3.03 min Scan# 391
Delta R.T. 0.00 min
Lab File: VN054964.D
Acq: 5 Apr 2019 10:27

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

Tot Ion:101 Resp: 4122
Ion Ratio Lower Upper
101 100
103 51.2 51.3 76.9#

Manual Integrations
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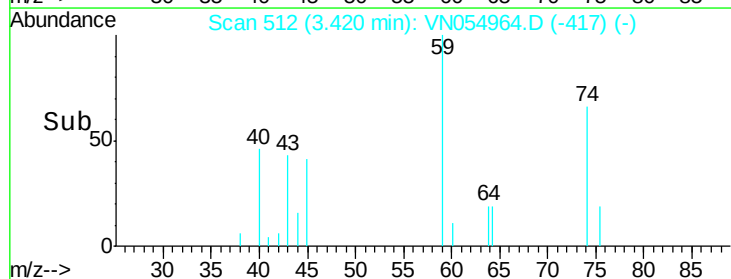
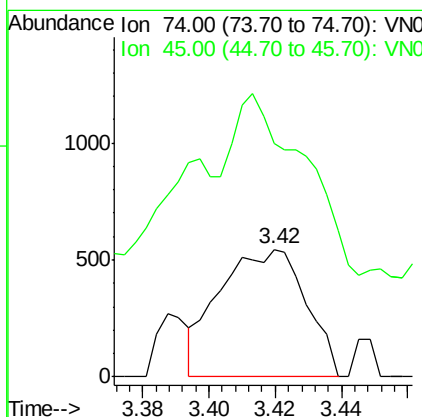
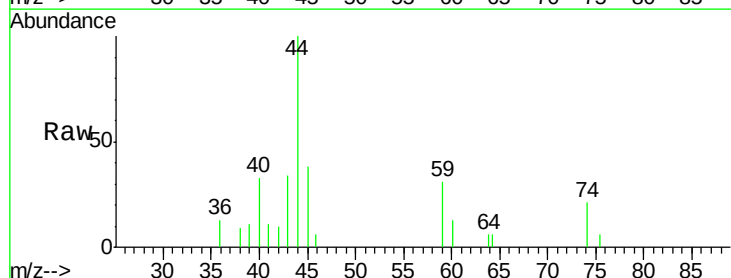
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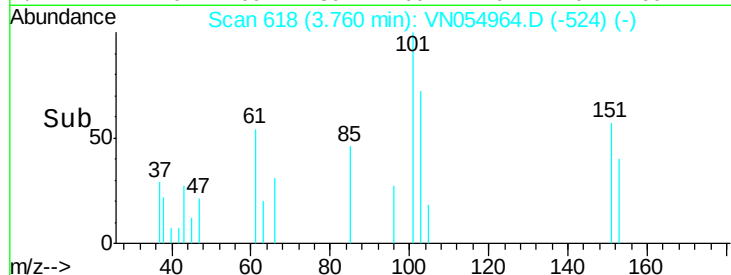
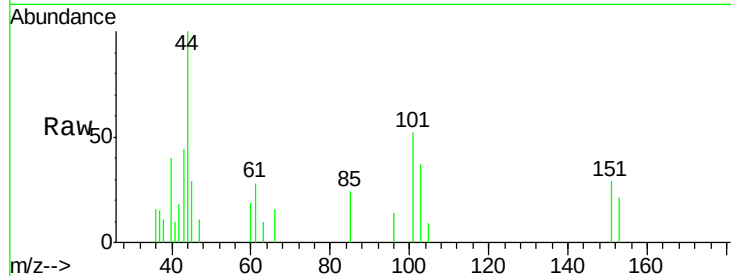
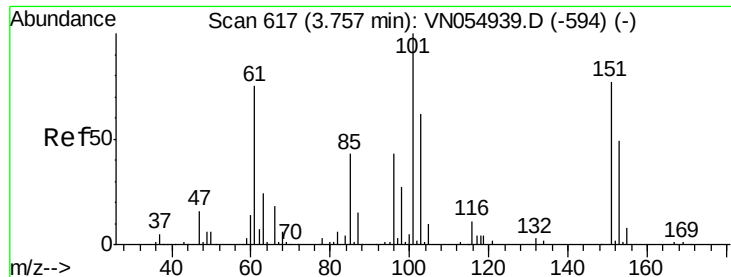


#8

Diethyl Ether
Concen: 0.439 ug/l
RT: 3.42 min Scan# 512
Delta R.T. 0.01 min
Lab File: VN054964.D
Acq: 5 Apr 2019 10:27

Tgt Ion: 74 Resp: 986
Ion Ratio Lower Upper
74 100
45 119.6 56.3 168.9





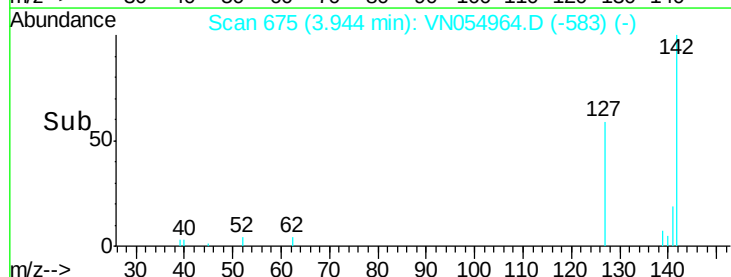
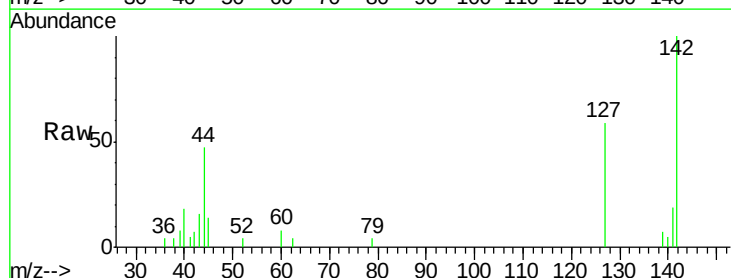
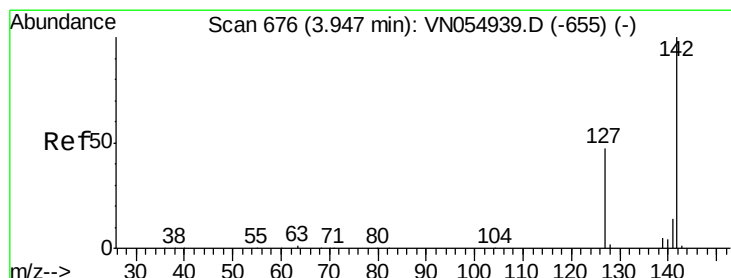
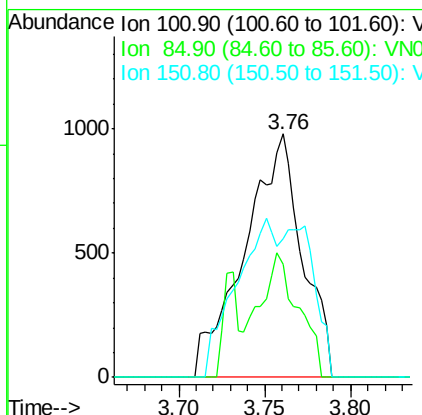
#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.611 ug/l
RT: 3.76 min Scan# 618
Delta R.T. 0.00 min
Lab File: VN054964.D
Acq: 5 Apr 2019 10:27

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

Tot Ion	Ratio	Lower	Upper
101	100		
85	33.9	36.2	54.2#
151	46.2	63.4	95.0#

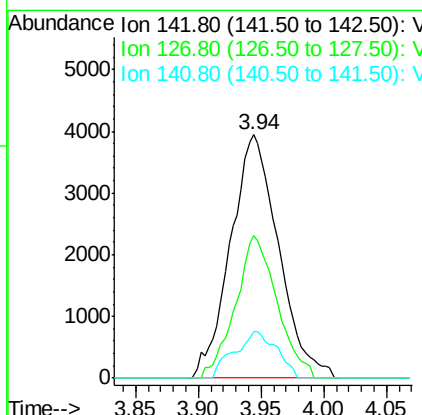
Manual Integrations
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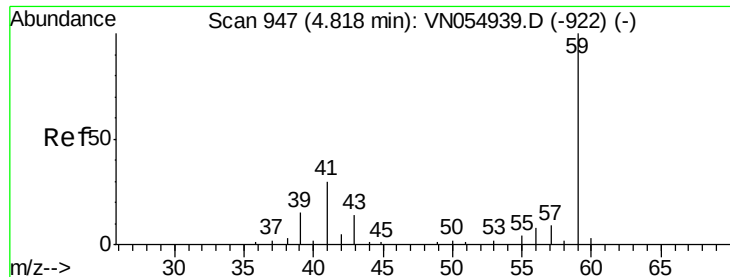
MMDadoda
4/8/2019 3:34:05 AM



#10
Methyl Iodide
Concen: 1.996 ug/l
RT: 3.94 min Scan# 675
Delta R.T. -0.00 min
Lab File: VN054964.D
Acq: 5 Apr 2019 10:27

Tgt Ion	Ratio	Lower	Upper
142	100		
127	50.5	38.0	57.0
141	16.7	11.7	17.5





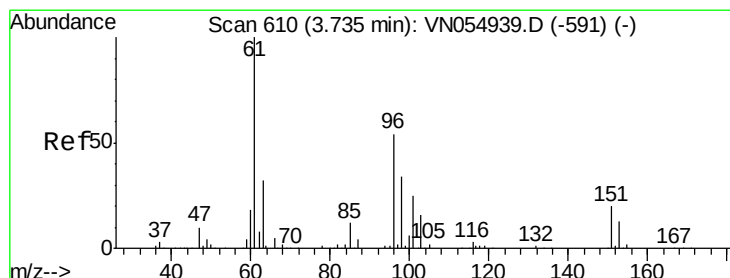
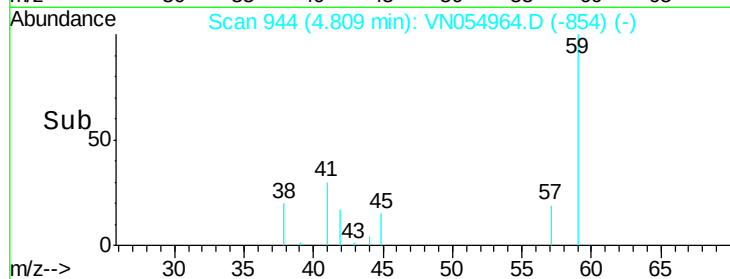
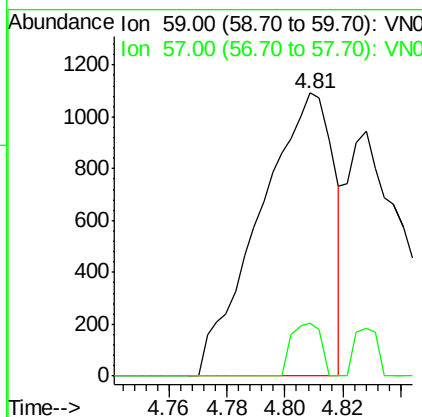
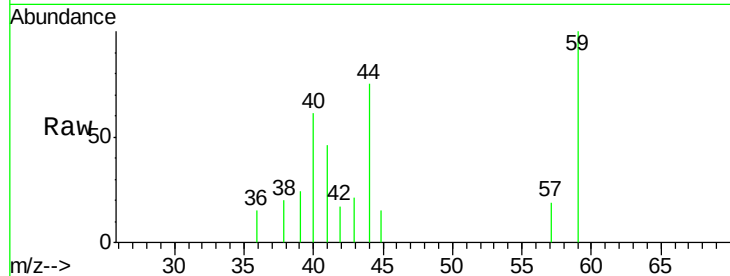
#11
Tert butyl alcohol
Concen: 6.757 ug/l
RT: 4.81 min Scan# 944
Delta R.T. -0.01 min
Lab File: VN054964.D
Acq: 5 Apr 2019 10:27

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

Tot Ion: 59 Resp: 1933
Ion Ratio Lower Upper
59 100
57 7.3 5.0 7.4

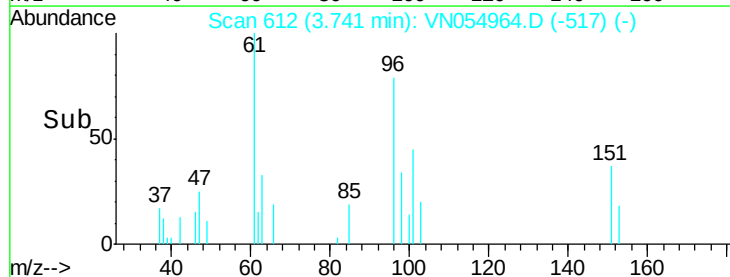
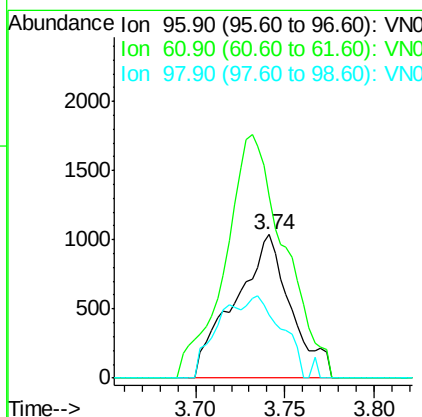
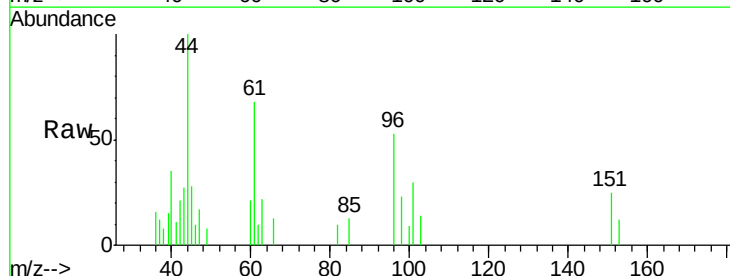
Manual Integrations
APPROVED

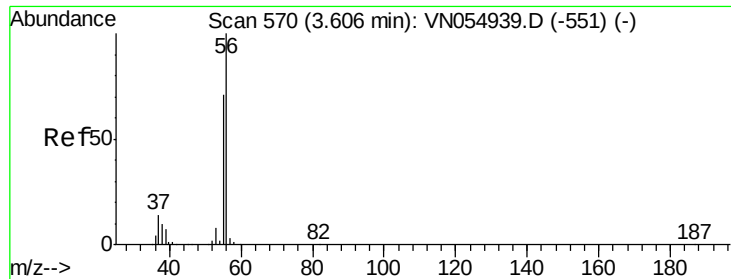
MMDadoda
4/8/2019 3:34:05 AM



#12
1,1-Dichloroethene
Concen: 0.612 ug/l
RT: 3.74 min Scan# 612
Delta R.T. 0.01 min
Lab File: VN054964.D
Acq: 5 Apr 2019 10:27

Tgt Ion: 96 Resp: 2267
Ion Ratio Lower Upper
96 100
61 126.7 148.2 222.2#
98 43.6 50.2 75.4#





#13

Acrolein

Concen: 10.936 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 56 Resp: 2986

Ion Ratio Lower Upper

56 100

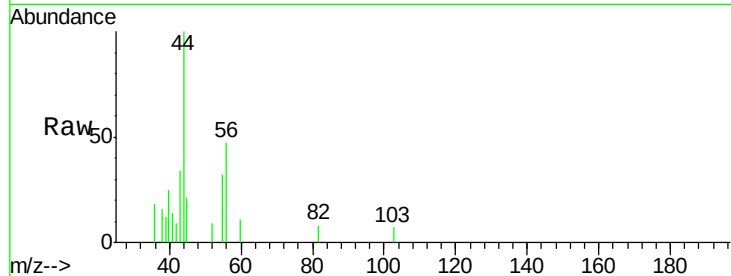
55 53.1 58.6 87.8#

Manual Integrations

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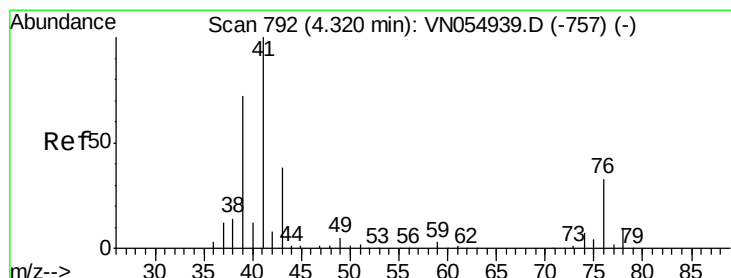
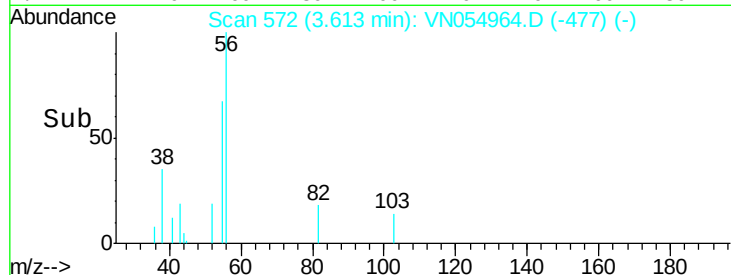
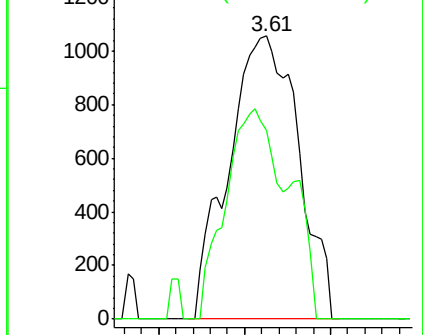
MMDadoda

4/8/2019 3:34:05 AM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 0.580 ug/l

RT: 4.32 min Scan# 793

Delta R.T. 0.00 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

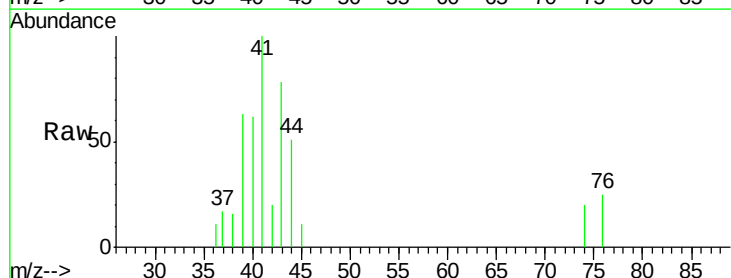
Tgt Ion: 41 Resp: 4767

Ion Ratio Lower Upper

41 100

39 50.6 55.4 83.2#

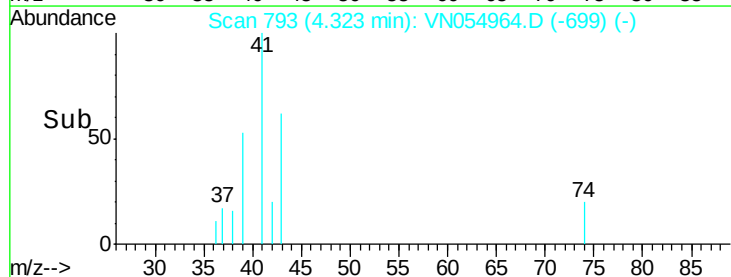
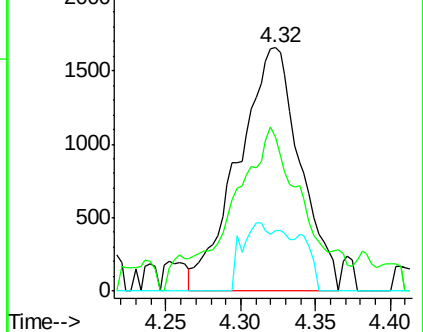
76 12.6 23.8 35.8#

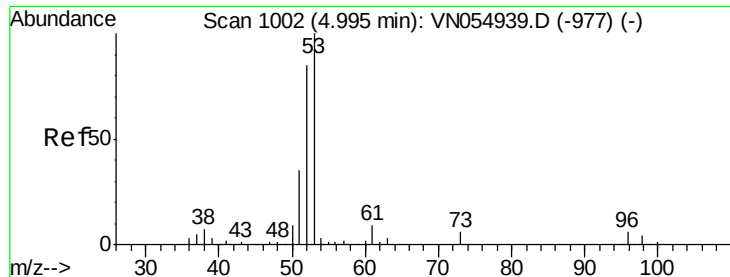


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 2.350 ug/l

RT: 5.00 min Scan# 1004

Delta R.T. 0.01 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

Instrument :

MSVOA_N

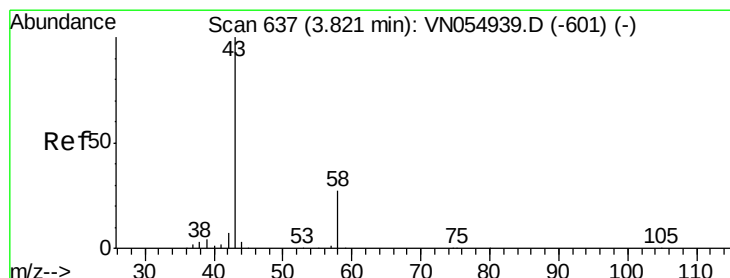
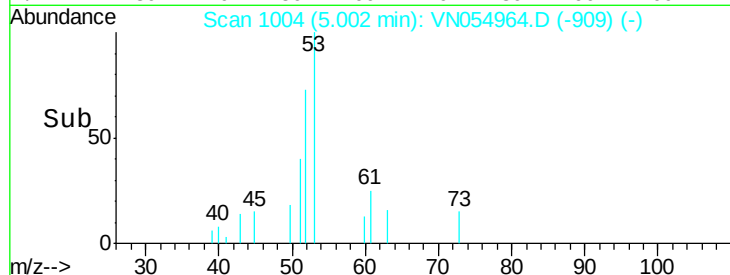
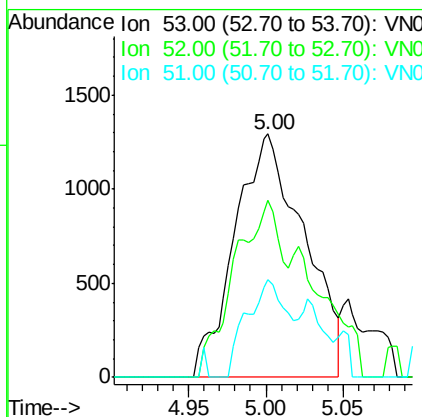
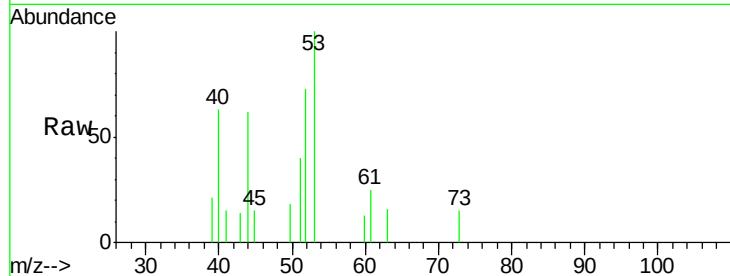
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	53	Resp:	4032
Ion	Ratio	Lower	Upper
53	100		
52	50.6	66.4	99.6#
51	22.7	29.5	44.3#

Manual Integrations
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MMDadoda
4/8/2019 3:34:05 AM



#16

Acetone

Concen: Below Cal

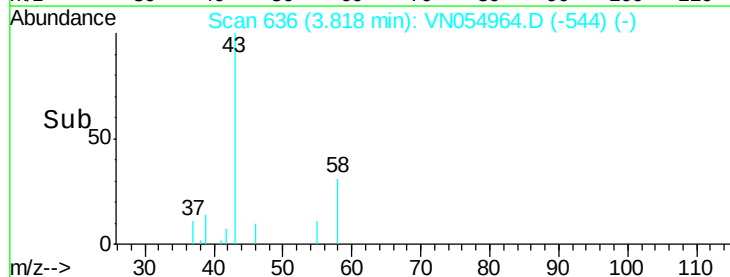
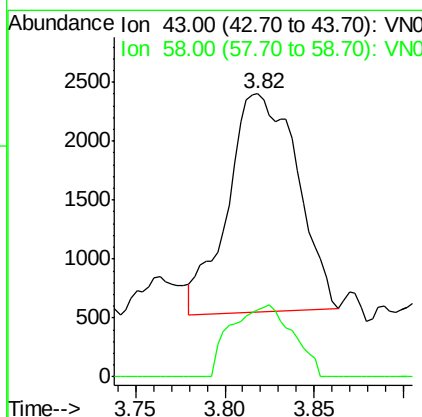
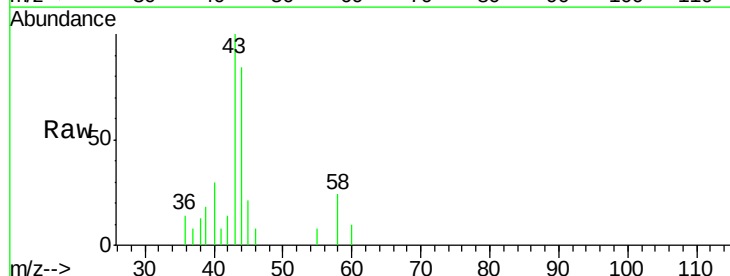
RT: 3.82 min Scan# 636

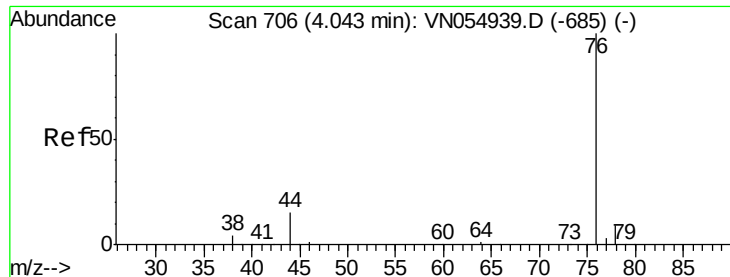
Delta R.T. -0.00 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

Tgt Ion:	43	Resp:	5009
Ion	Ratio	Lower	Upper
43	100		
58	31.3	21.7	32.5





#17

Carbon Disulfide

Concen: 0.630 ug/l

RT: 4.05 min Scan# 708

Delta R.T. 0.01 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

Tot Ion: 76 Resp: 7432

Ion Ratio Lower Upper

76 100

78 9.2 7.1 10.7

Instrument :

MSVOA_N

ClientSampleId :

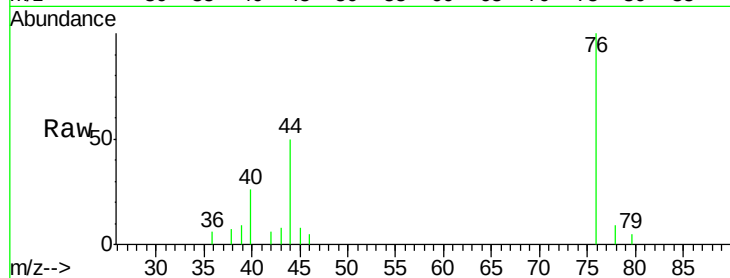
MDL-MDL-WATER-03-QT2-2019

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.05

3000

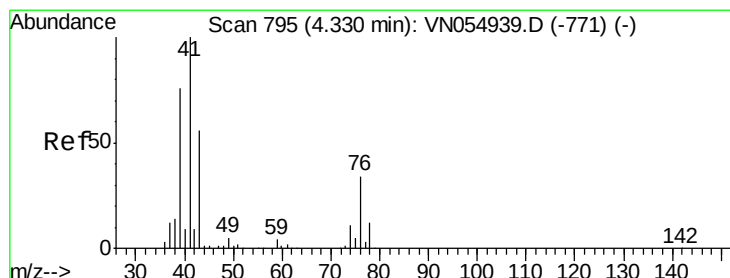
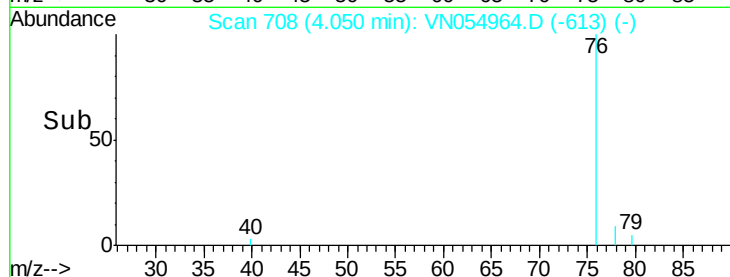
2000

1000

0

3.95 4.00 4.05 4.10

Time-->



#18

Methyl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN054964.D

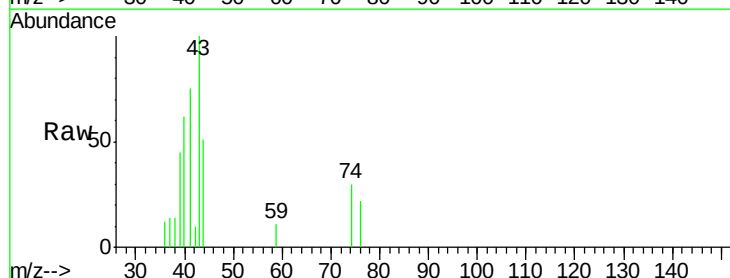
Acq: 5 Apr 2019 10:27

Tgt Ion: 43 Resp: 3337

Ion Ratio Lower Upper

43 100

74 24.2 16.4 24.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.33

1500

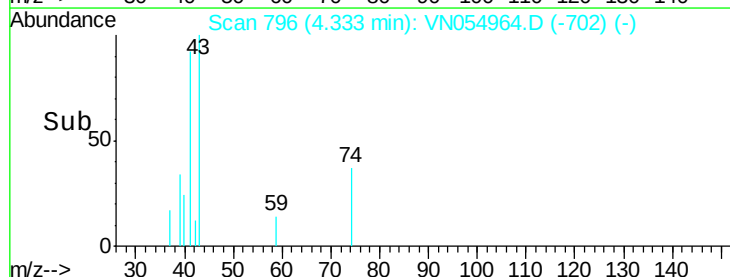
1000

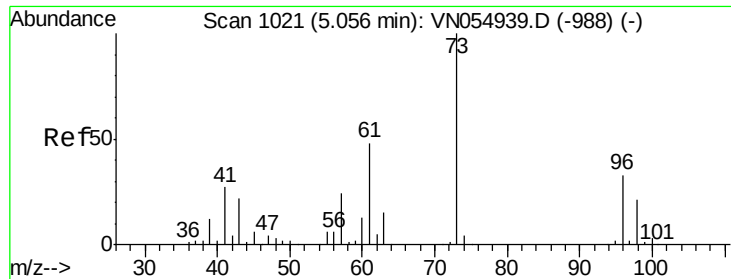
500

0

4.30 4.35 4.40

Time-->





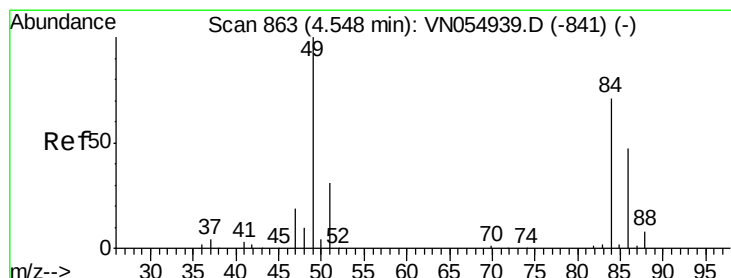
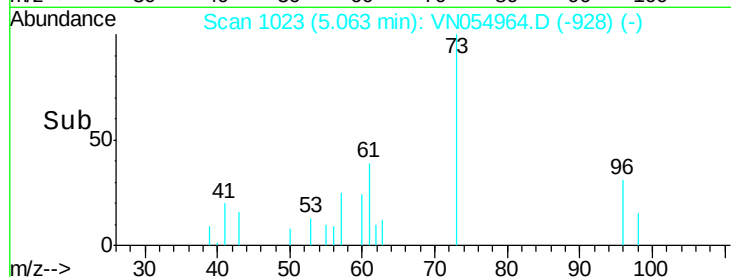
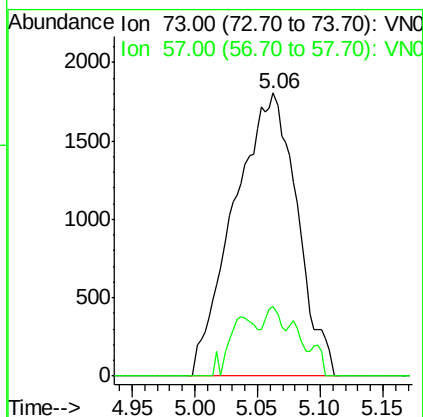
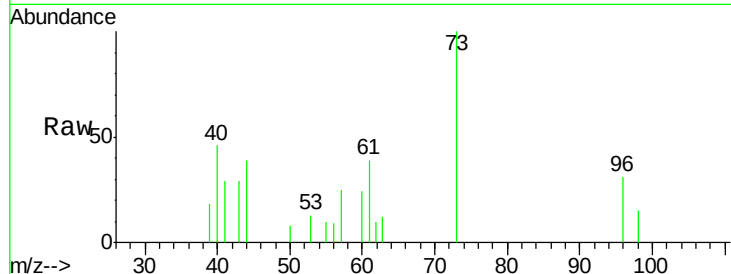
#19
Methyl tert-butyl Ether
Concen: 0.523 ug/l
RT: 5.06 min Scan# 1023
Delta R.T. 0.01 min
Lab File: VN054964.D
Acq: 5 Apr 2019 10:27

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

Tot Ion: 73 Resp: 6287
Ion Ratio Lower Upper
73 100
57 24.8 19.5 29.3

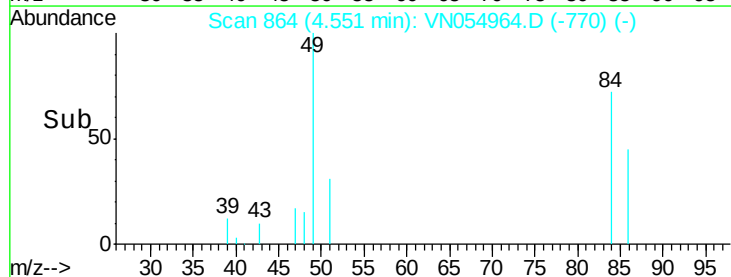
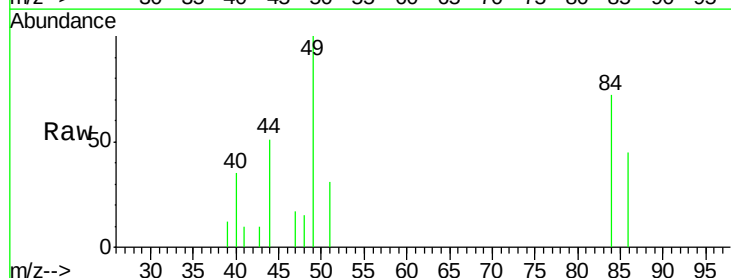
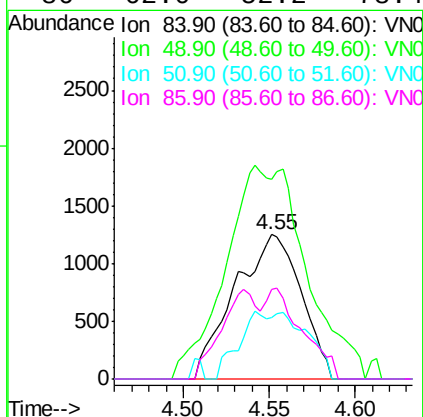
Manual Integrations
APPROVED

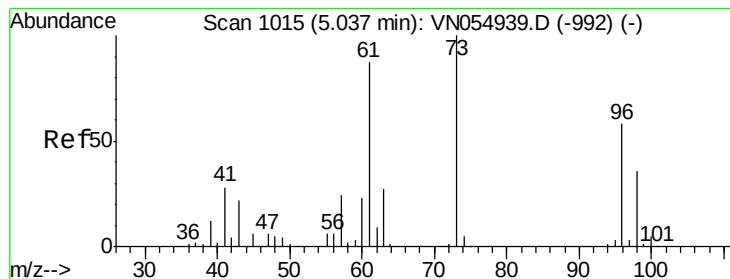
MMDadoda
4/8/2019 3:34:05 AM



#20
Methylene Chloride
Concen: 0.653 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN054964.D
Acq: 5 Apr 2019 10:27

Tgt Ion: 84 Resp: 3360
Ion Ratio Lower Upper
84 100
49 118.1 112.1 168.1
51 42.6 34.5 51.7
86 62.0 52.2 78.4





#21

trans-1,2-Dichloroethene

Concen: 0.548 ug/l m

RT: 5.03 min Scan# 1012

Delta R.T. -0.01 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 96 Resp: 2536

Ion Ratio Lower Upper

96 100

61 102.0 120.1 180.1#

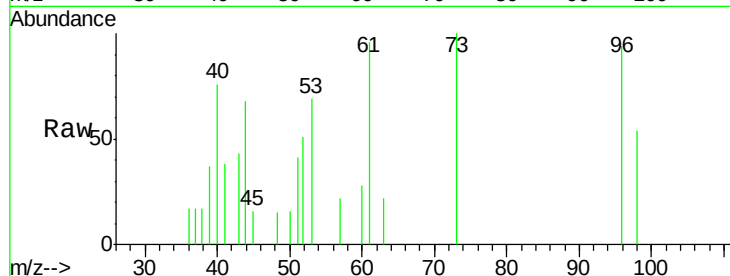
98 56.8 49.3 73.9

Manual Integrations

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MMDadoda

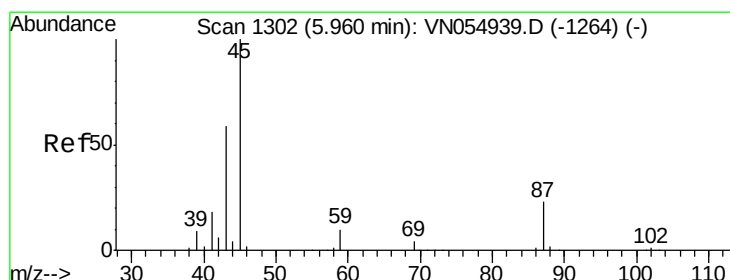
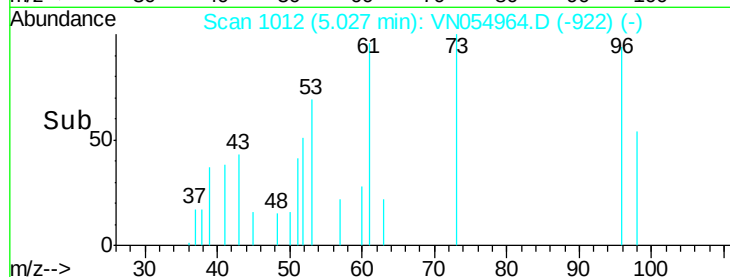
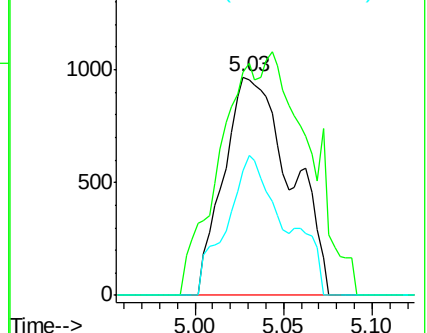
4/8/2019 3:34:05 AM



Abundance Ion 95.90 (95.60 to 96.60): VN054939.D (-992) (-)

Ion 60.90 (60.60 to 61.60): VN054939.D (-992) (-)

Ion 97.90 (97.60 to 98.60): VN054939.D (-992) (-)



#22

Diisopropyl ether

Concen: 0.581 ug/l

RT: 5.96 min Scan# 1301

Delta R.T. -0.00 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

Tgt Ion: 45 Resp: 9810

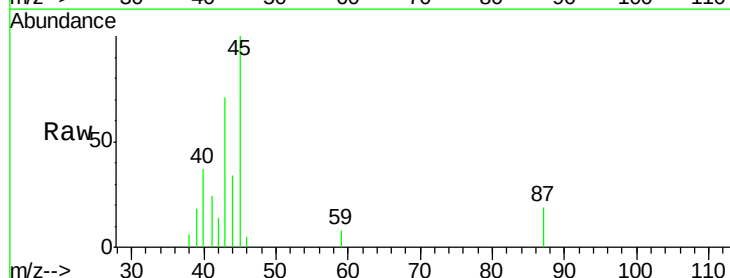
Ion Ratio Lower Upper

45 100

43 62.5 46.9 70.3

87 19.4 18.6 28.0

59 8.4 8.5 12.7#

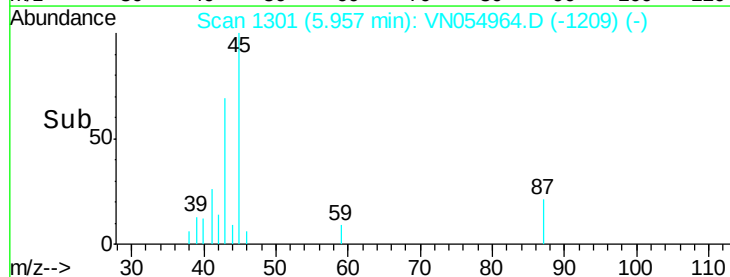
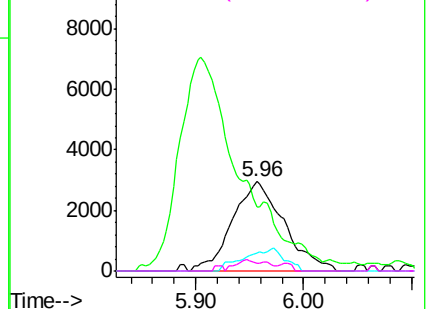


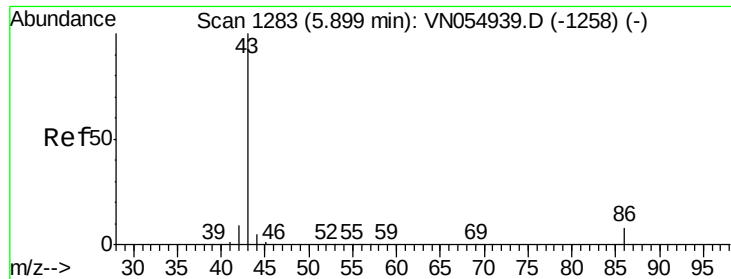
Abundance Ion 45.00 (44.70 to 45.70): VN054939.D (-1264) (-)

Ion 43.00 (42.70 to 43.70): VN054939.D (-1264) (-)

Ion 87.00 (86.70 to 87.70): VN054939.D (-1264) (-)

Ion 59.00 (58.70 to 59.70): VN054939.D (-1264) (-)





#23

Vinyl Acetate

Concen: 2.042 ug/l

RT: 5.91 min Scan# 1285

Delta R.T. 0.01 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 43 Resp: 24007

Ion Ratio Lower Upper

43 100

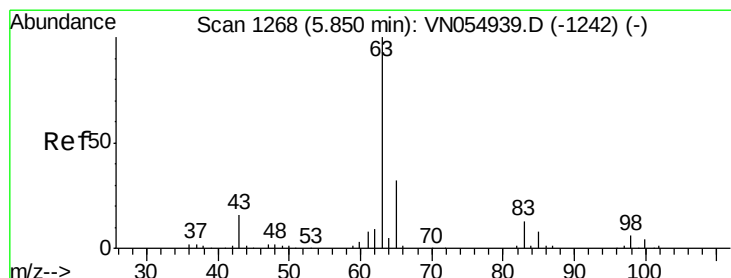
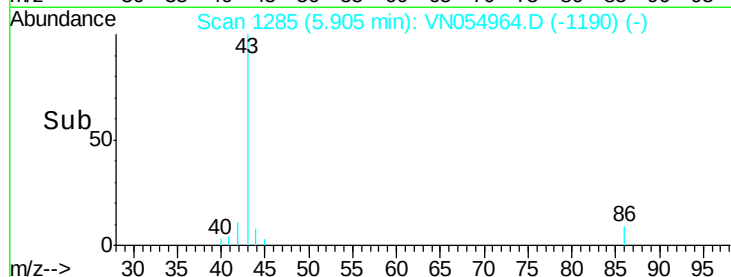
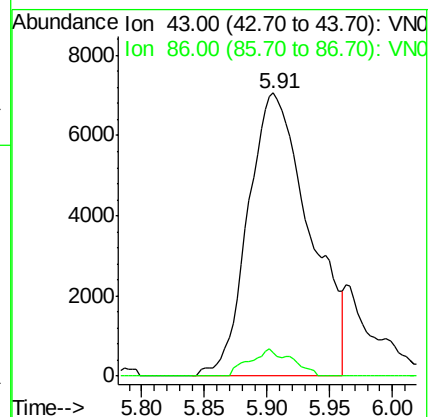
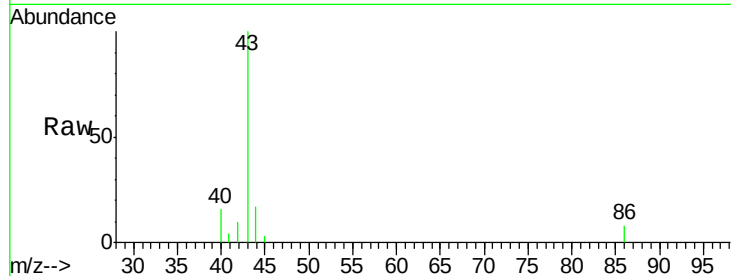
86 8.4 6.7 10.1

Manual Integrations

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MMDadoda

4/8/2019 3:34:05 AM



#24

1,1-Dichloroethane

Concen: 0.560 ug/l

RT: 5.84 min Scan# 1266

Delta R.T. -0.01 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

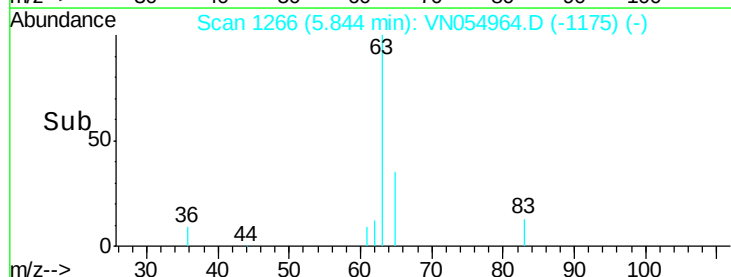
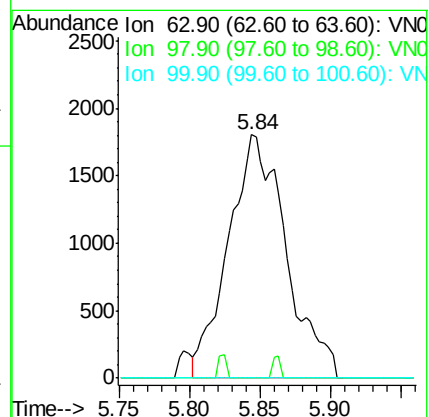
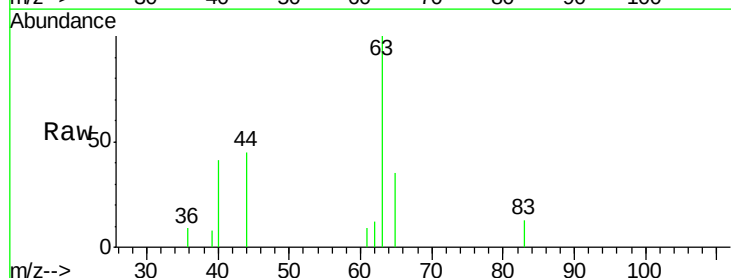
Tgt Ion: 63 Resp: 5159

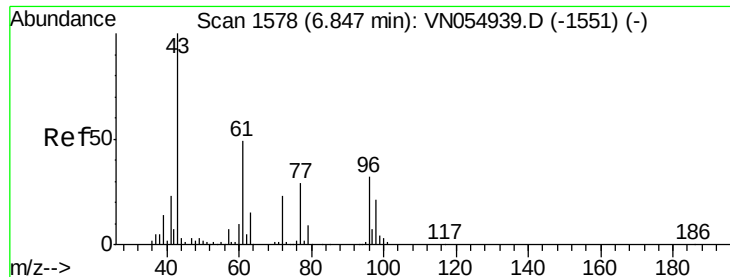
Ion Ratio Lower Upper

63 100

98 0.0 2.9 8.7#

100 0.0 2.1 6.2#





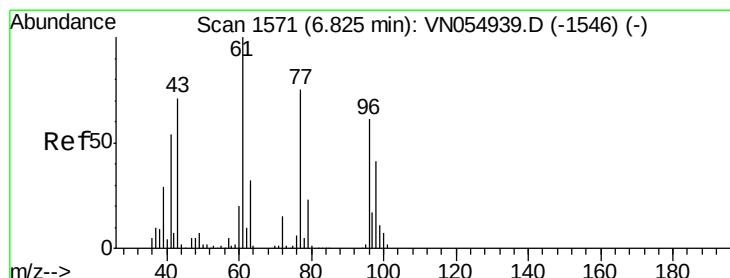
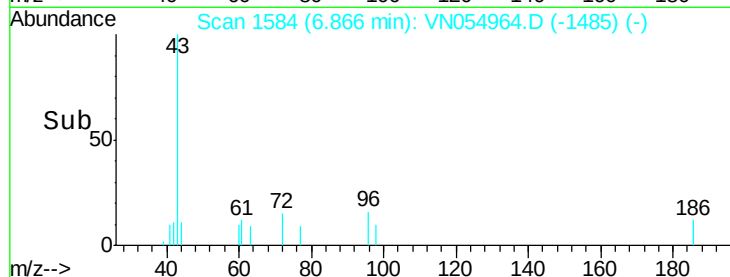
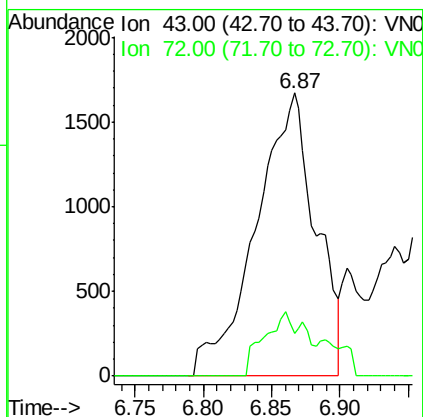
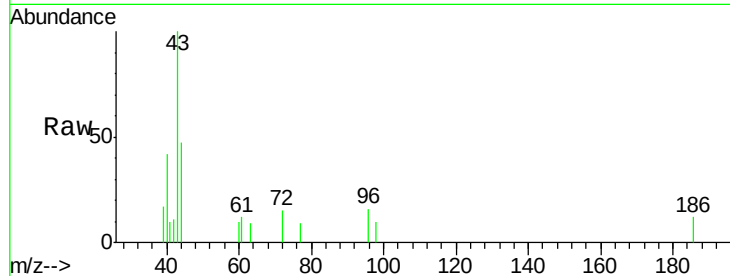
#25
2-Butanone
Concen: 2.441 ug/l
RT: 6.87 min Scan# 1584
Delta R.T. 0.02 min
Lab File: VN054964.D
Acq: 5 Apr 2019 10:27

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

Tot Ion: 43 Resp: 5082
Ion Ratio Lower Upper
43 100
72 15.1 18.3 27.5#

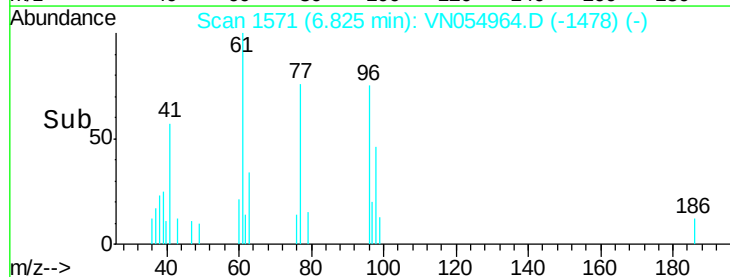
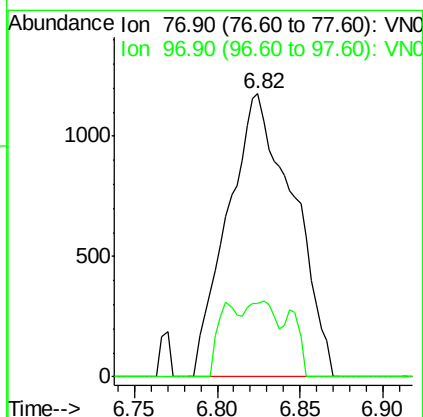
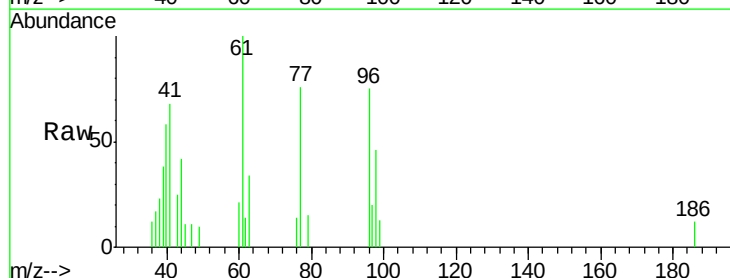
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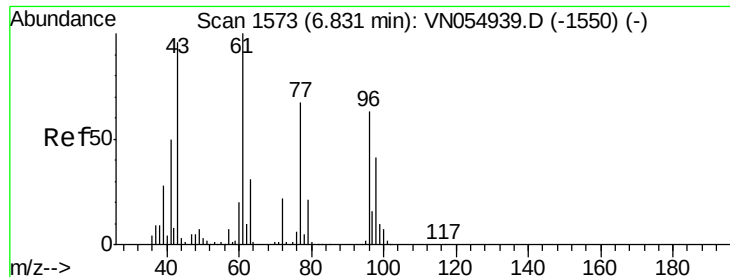
MMDadoda
4/8/2019 3:34:05 AM



#26
2,2-Dichloropropane
Concen: 0.501 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. 0.00 min
Lab File: VN054964.D
Acq: 5 Apr 2019 10:27

Tgt Ion: 77 Resp: 3233
Ion Ratio Lower Upper
77 100
97 9.2 11.6 34.8#





#27

cis-1,2-Dichloroethene

Concen: 0.552 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.01 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

Instrument :

MSVOA_N

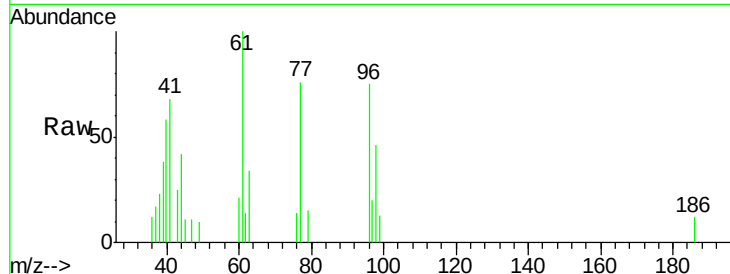
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

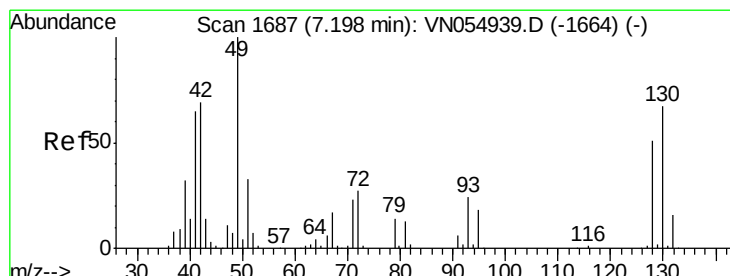
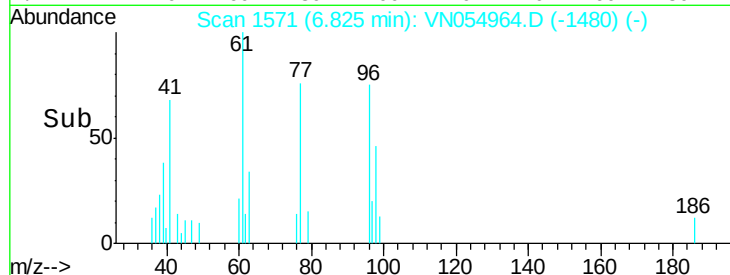
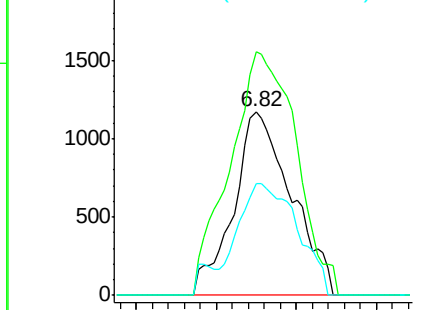
Tot Ion:	96	Resp:	2898
Ion	Ratio	Lower	Upper
96	100		
61	152.1	0.0	316.2
98	63.4	0.0	129.6

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Abundance Ion 95.90 (95.60 to 96.60): VN054964.D (-1480) (-)



#28

Bromochloromethane

Concen: 0.555 ug/l m

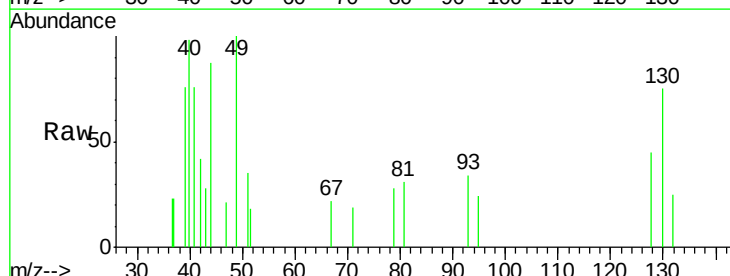
RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

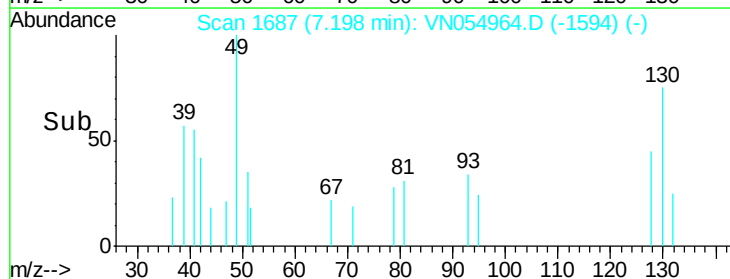
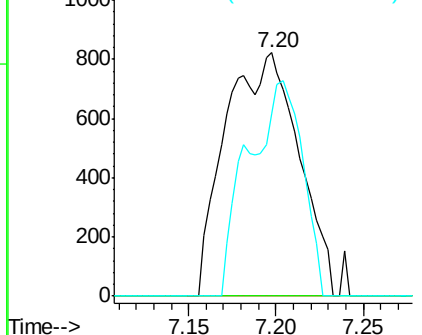
Lab File: VN054964.D

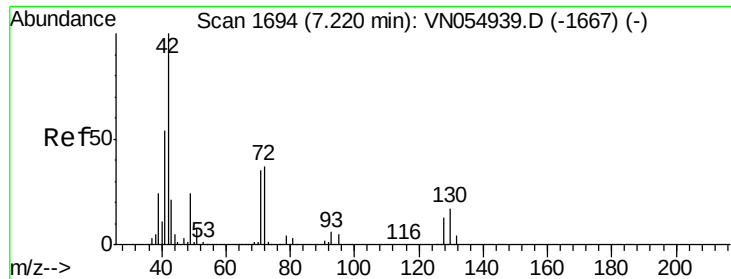
Acq: 5 Apr 2019 10:27

Tgt Ion:	49	Resp:	2397
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	19.4	53.1	79.7#



Abundance Ion 48.90 (48.60 to 49.60): VN054964.D (-1594) (-)





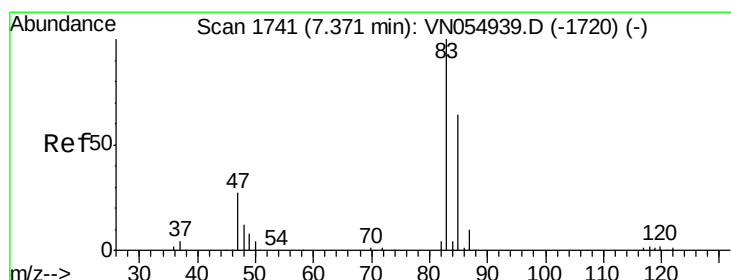
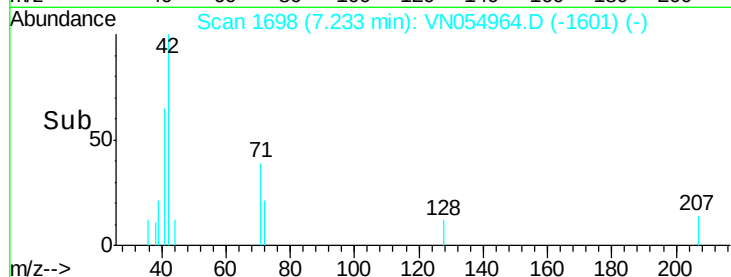
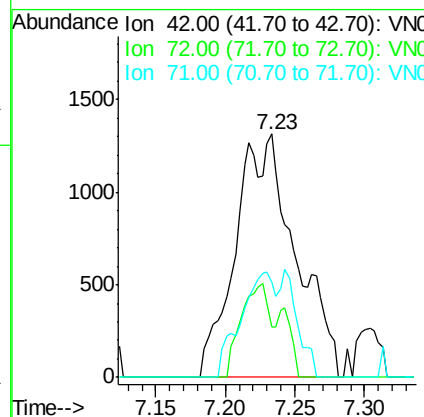
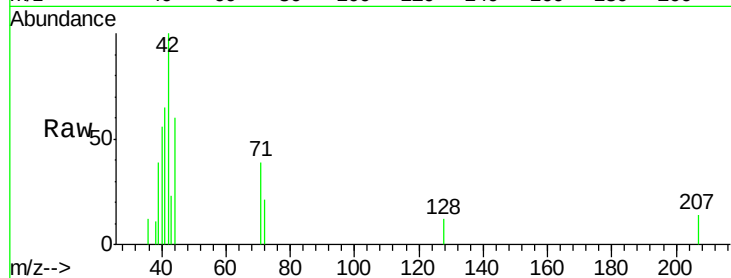
#29
Tetrahydrofuran
Concen: 2.883 ug/l m
RT: 7.23 min Scan# 1698
Delta R.T. 0.01 min
Lab File: VN054964.D
Acq: 5 Apr 2019 10:27

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

Tot Ion	Ratio	Lower	Upper
42	100		
72	17.9	29.3	43.9#
71	24.6	27.8	41.6#

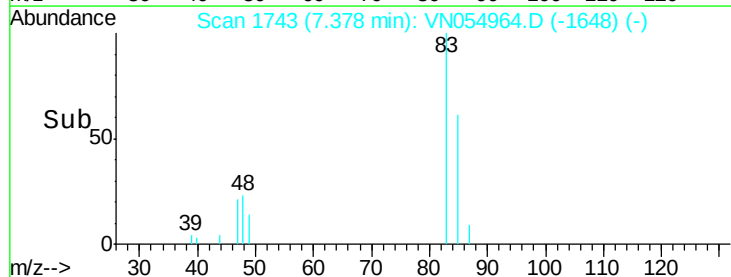
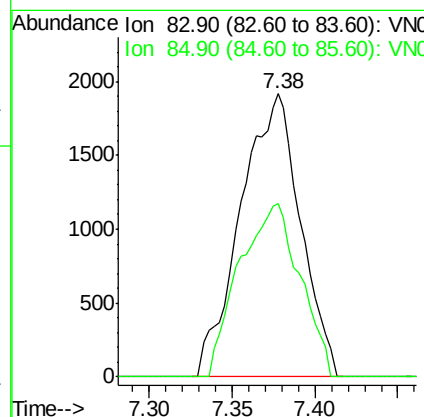
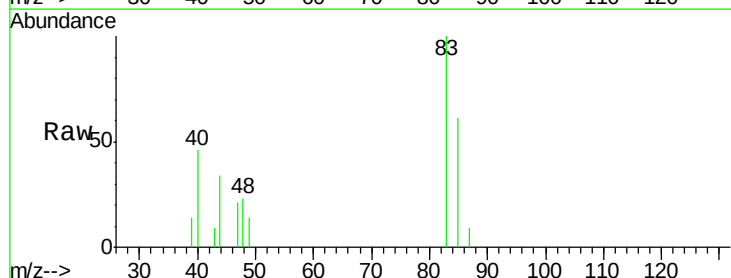
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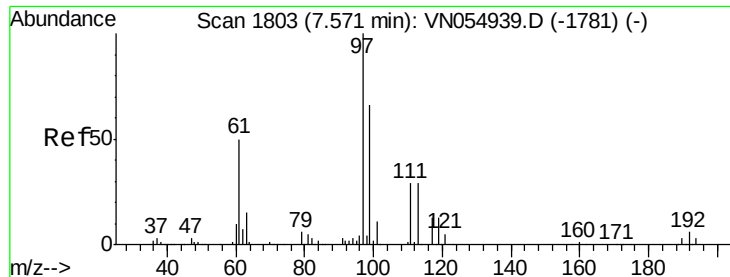
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#30
Chloroform
Concen: 0.551 ug/l
RT: 7.38 min Scan# 1743
Delta R.T. 0.01 min
Lab File: VN054964.D
Acq: 5 Apr 2019 10:27

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.3	51.4	77.0





#32

1,1,1-Trichloroethane

Concen: 0.534 ug/l m

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 97 Resp: 3938

Ion Ratio Lower Upper

97 100

99 0.0 52.1 78.1#

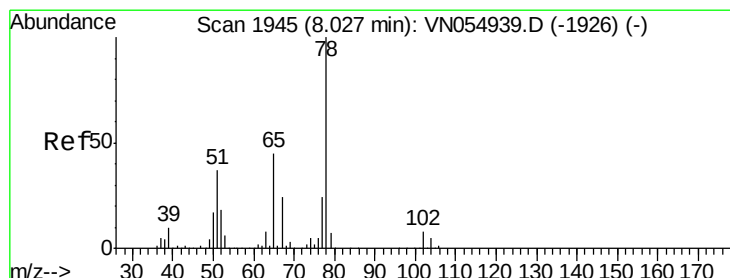
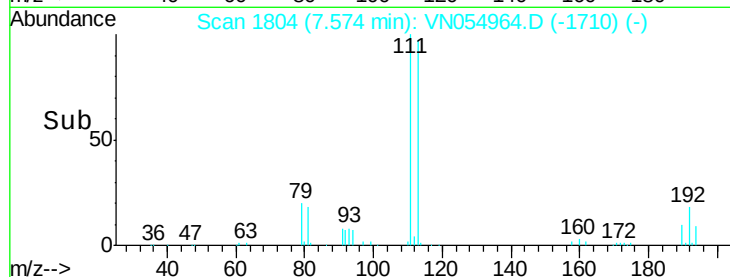
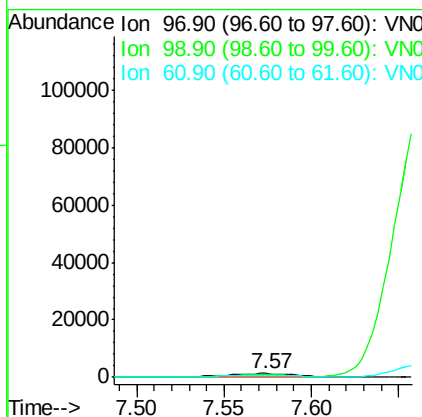
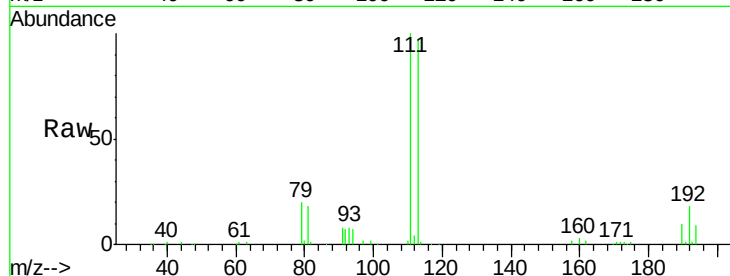
61 34.9 39.6 59.4#

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#33

1,2-Dichloroethane-d4

Concen: 54.975 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN054964.D

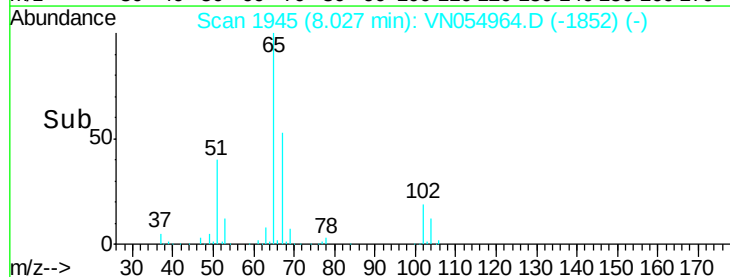
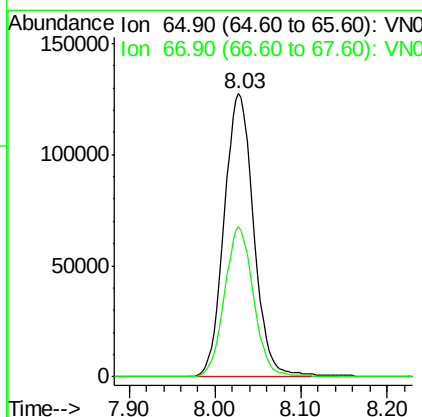
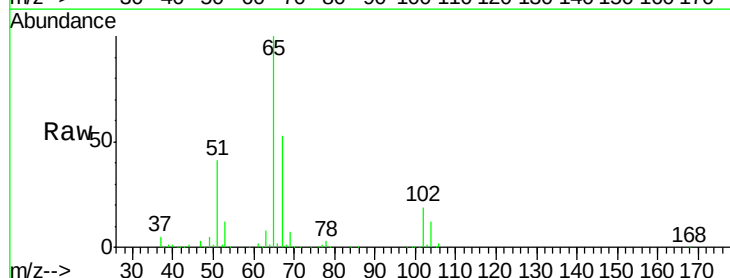
Acq: 5 Apr 2019 10:27

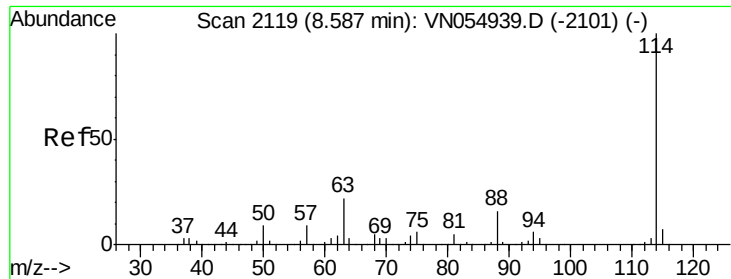
Tgt Ion: 65 Resp: 304768

Ion Ratio Lower Upper

65 100

67 52.1 0.0 105.6





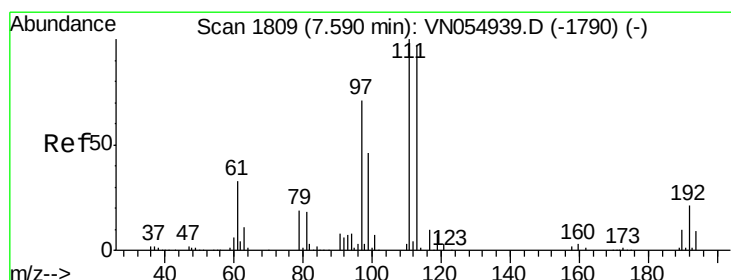
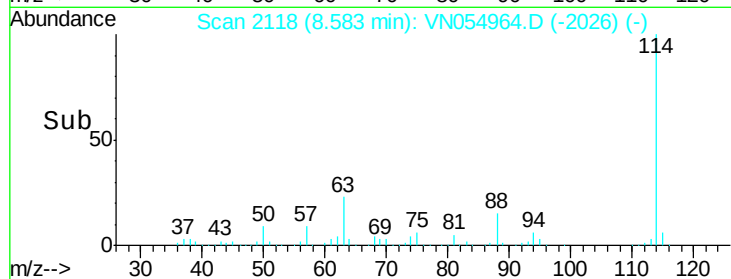
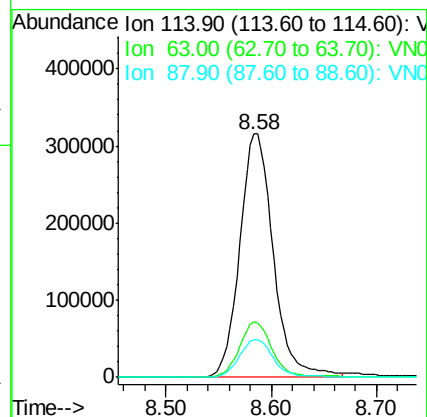
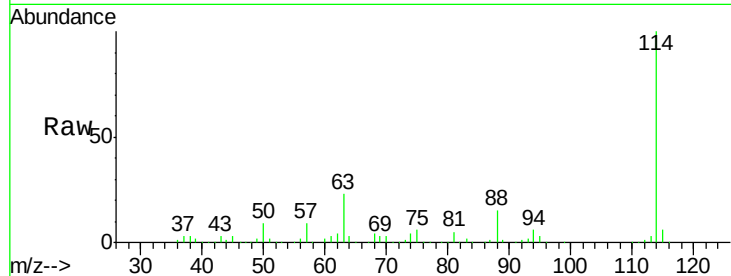
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.58 min Scan# 2119
Delta R.T. -0.00 min
Lab File: VN054964.D
Acq: 5 Apr 2019 10:27

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

Tot Ion	Ratio	Resp	Lower	Upper
114	100	697254		
63	22.6	0.0	44.6	
88	15.5	0.0	32.0	

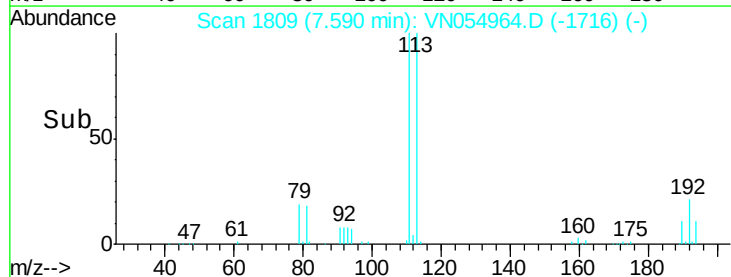
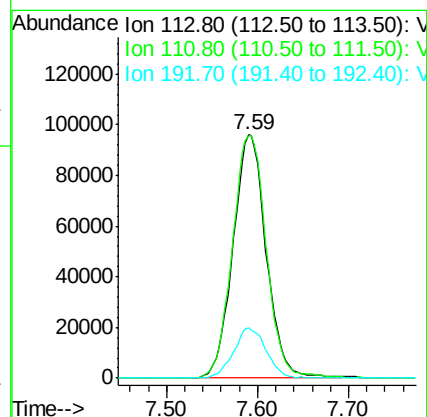
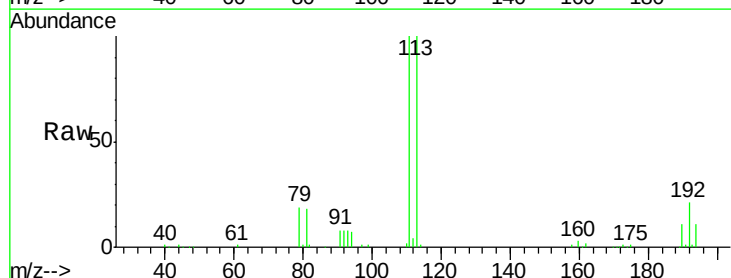
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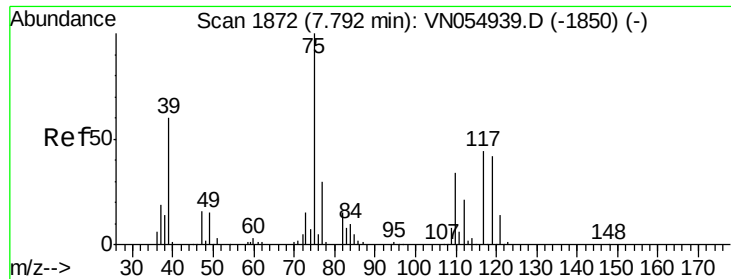
MMDadoda
4/8/2019 3:34:05 AM



#35
Dibromofluoromethane
Concen: 53.436 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN054964.D
Acq: 5 Apr 2019 10:27

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	242537		
111	102.5	81.0	121.4	
192	20.3	16.5	24.7	





#36

1,1-Dichloropropene

Concen: 0.625 ug/l m

RT: 7.80 min Scan# 1874

Delta R.T. 0.01 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

Instrument :

MSVOA_N

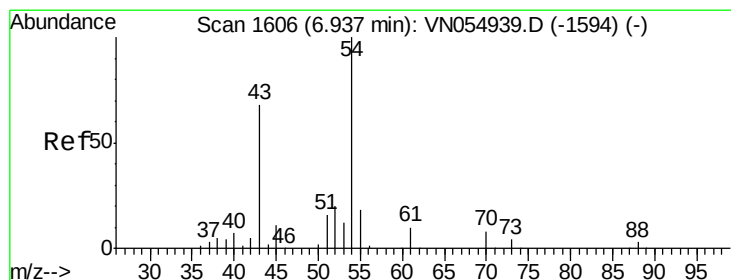
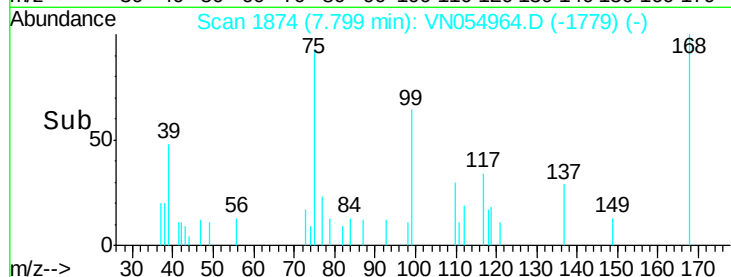
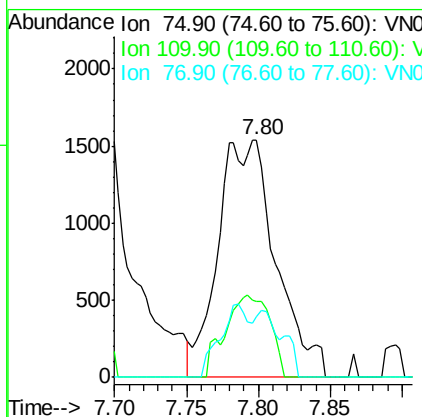
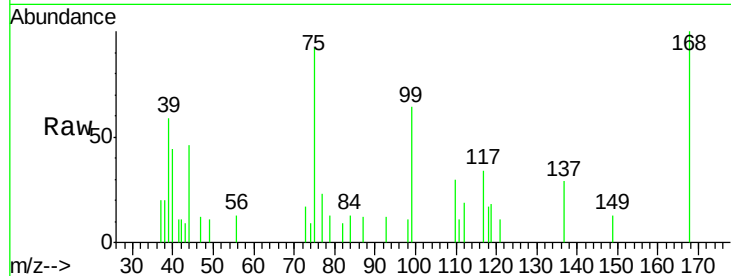
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	75	Resp:	4315
Ion	Ratio	Lower	Upper
75	100		
110	26.8	17.0	50.9
77	15.7	25.3	37.9#

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#37

Ethyl Acetate

Concen: 0.407 ug/l m

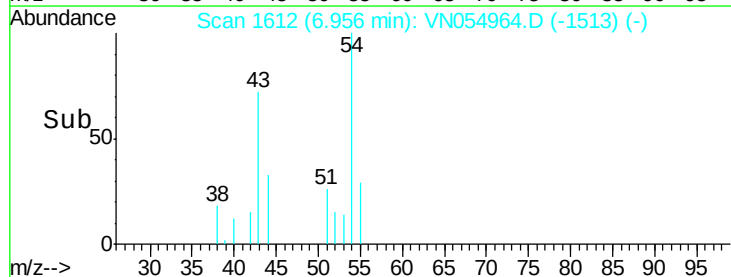
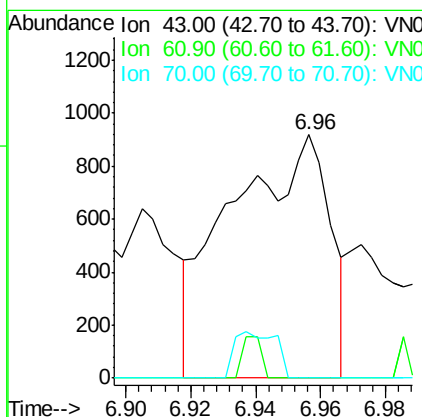
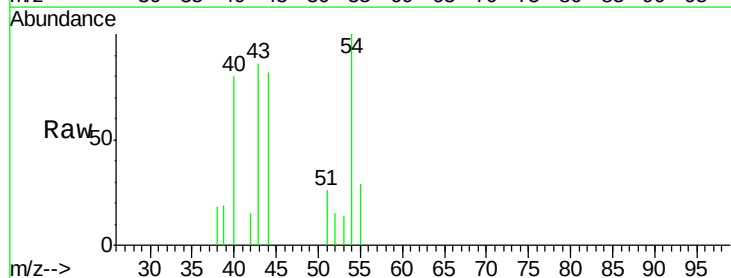
RT: 6.96 min Scan# 1612

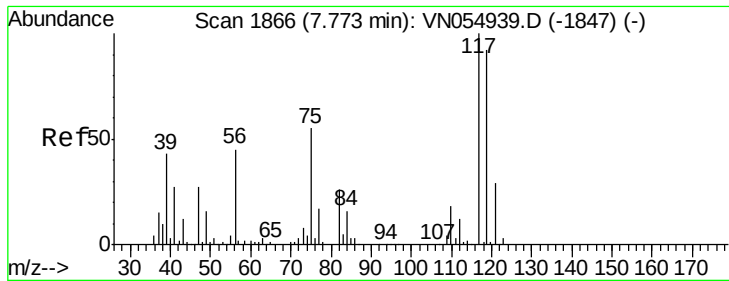
Delta R.T. 0.02 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

Tgt Ion:	43	Resp:	1931
Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.3	15.5#
70	8.0	7.0	10.4





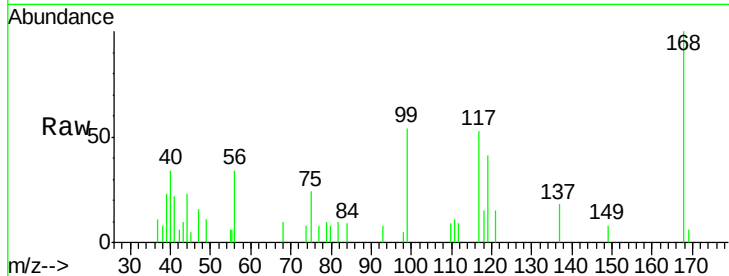
#38
Carbon Tetrachloride
Concen: 0.640 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VN054964.D
Acq: 5 Apr 2019 10:27

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

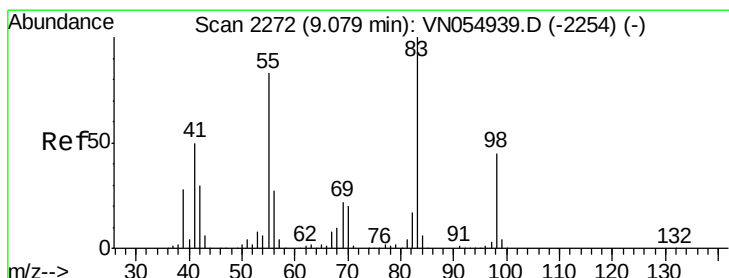
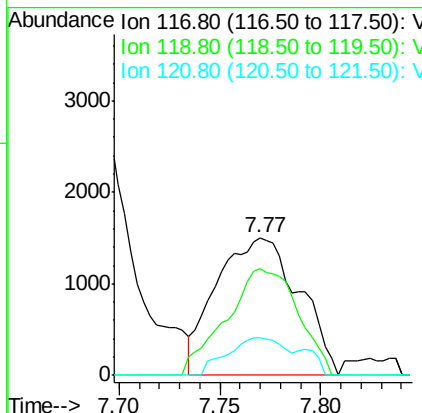
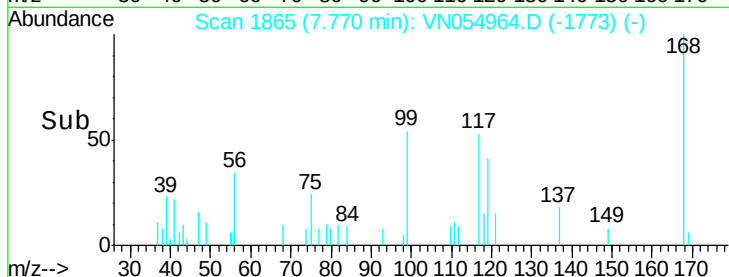
Tot Ion	Ratio	Lower	Upper
117	100		
119	77.5	73.6	110.4
121	27.6	23.4	35.0

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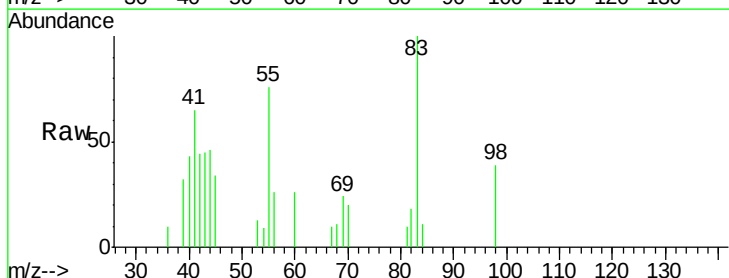


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

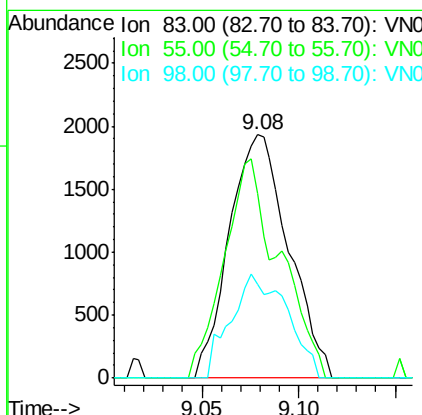
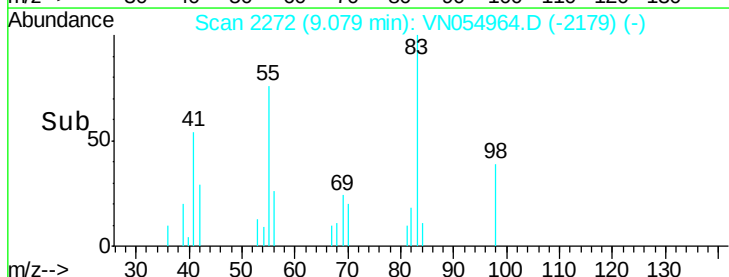


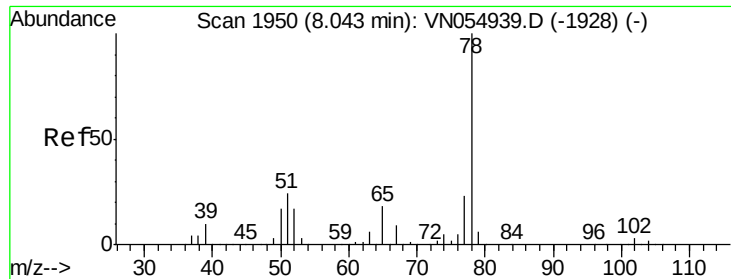
#39
Methylcyclohexane
Concen: 0.542 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN054964.D
Acq: 5 Apr 2019 10:27

Tgt Ion	Ratio	Lower	Upper
83	100		
55	76.1	66.4	99.6
98	38.6	36.4	54.6



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





#40

Benzene

Concen: 0.551 ug/l

RT: 8.04 min Scan# 1949

Delta R.T. -0.00 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 78 Resp: 10945

Ion Ratio Lower Upper

78 100

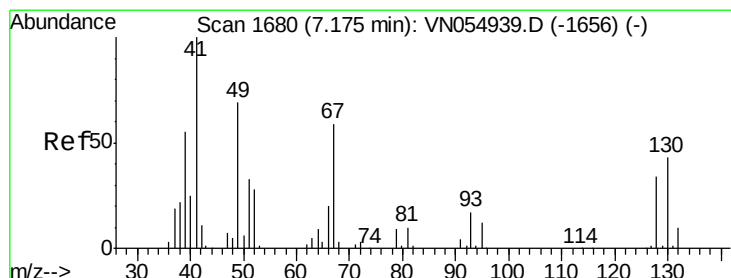
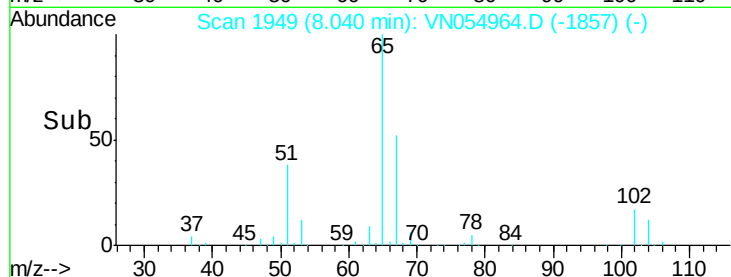
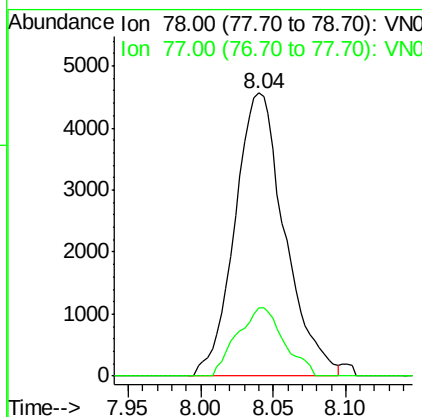
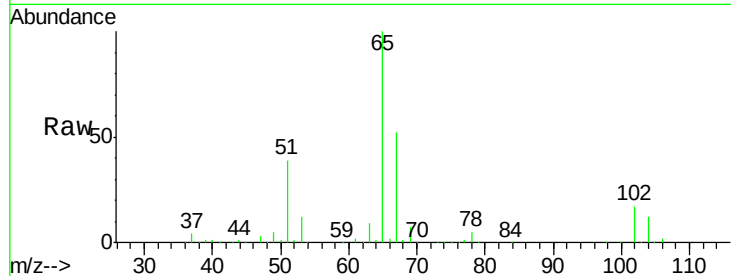
77 24.0 18.6 27.8

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#41

Methacrylonitrile

Concen: 0.267 ug/l

RT: 7.17 min Scan# 1679

Delta R.T. -0.00 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

Tgt Ion: 41 Resp: 725

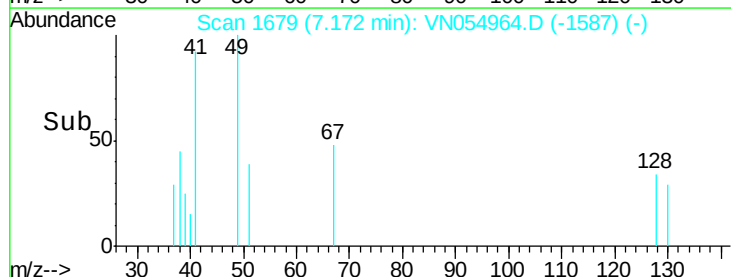
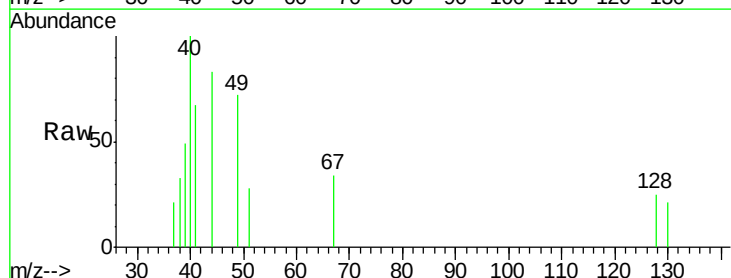
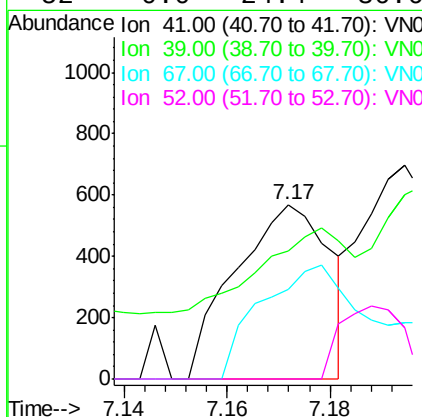
Ion Ratio Lower Upper

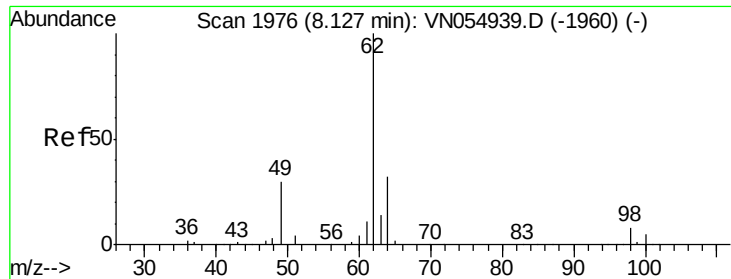
41 100

39 41.5 43.0 64.6#

67 69.0 55.0 82.6

52 0.0 24.4 36.6#





#42

1,2-Dichloroethane

Concen: 0.649 ug/l

RT: 8.13 min Scan# 1977

Delta R.T. 0.00 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 62 Resp: 4532

Ion Ratio Lower Upper

62 100

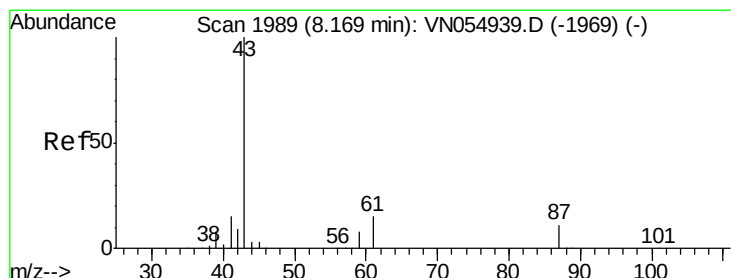
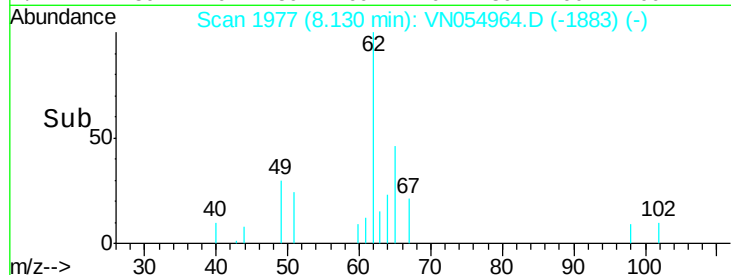
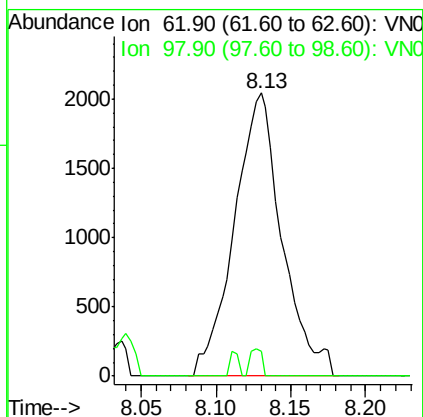
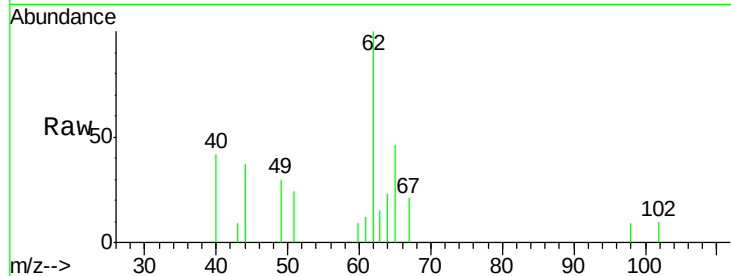
98 2.4 0.0 16.0

Manual Integrations

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#43

Isopropyl Acetate

Concen: 0.575 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

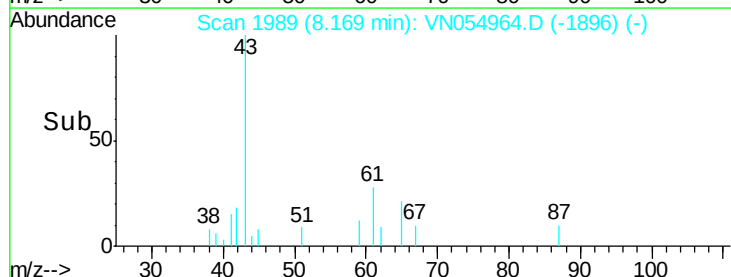
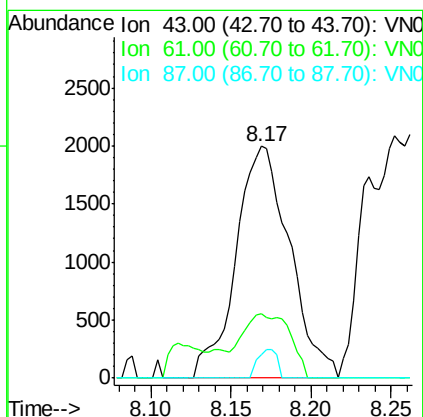
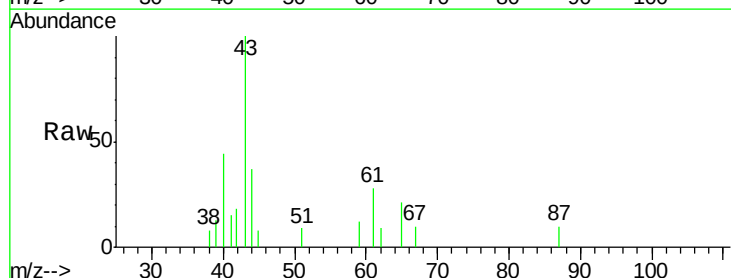
Tgt Ion: 43 Resp: 4596

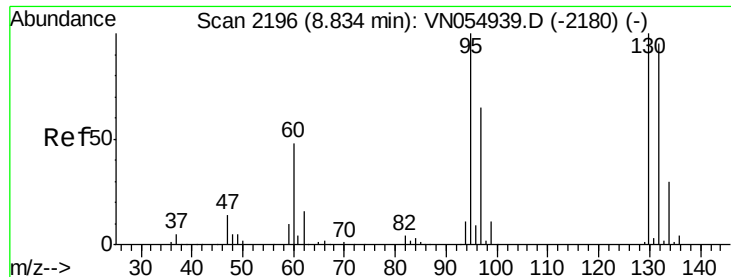
Ion Ratio Lower Upper

43 100

61 24.5 14.4 21.6#

87 4.4 9.0 13.4#





#44

Trichloroethene

Concen: 0.553 ug/l

RT: 8.83 min Scan# 2194

Delta R.T. -0.01 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:130 Resp: 2810

Ion Ratio Lower Upper

130 100

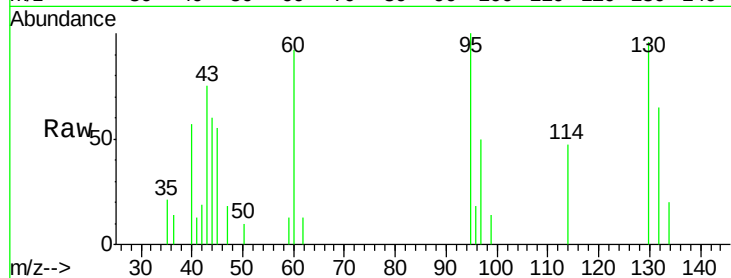
95 103.9 0.0 200.4

Manual Integrations

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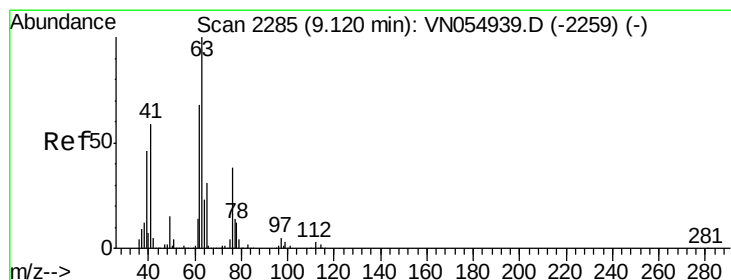
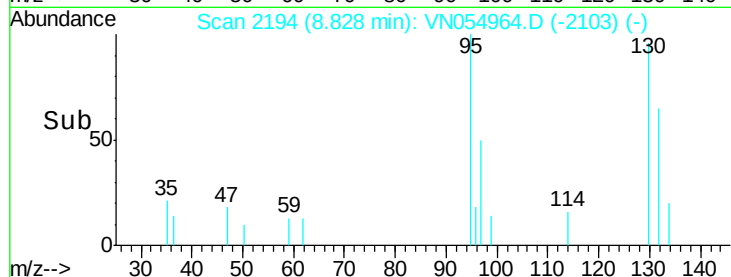
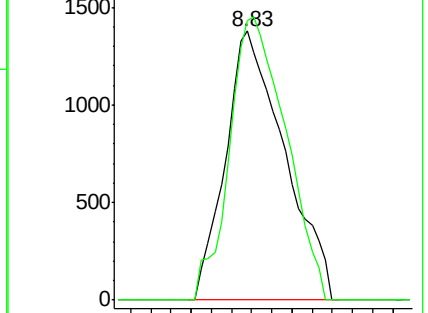
MMDadoda

4/8/2019 3:34:05 AM



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VNO



#45

1,2-Dichloropropane

Concen: 0.457 ug/l

RT: 9.12 min Scan# 2284

Delta R.T. -0.00 min

Lab File: VN054964.D

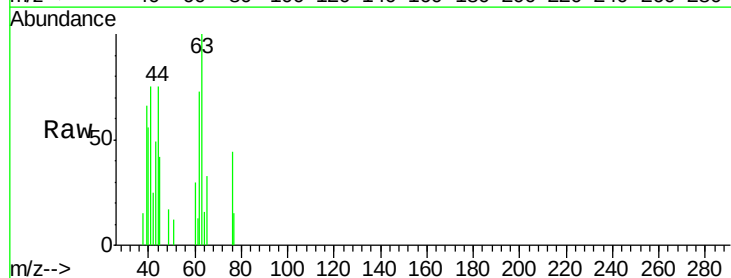
Acq: 5 Apr 2019 10:27

Tgt Ion: 63 Resp: 2530

Ion Ratio Lower Upper

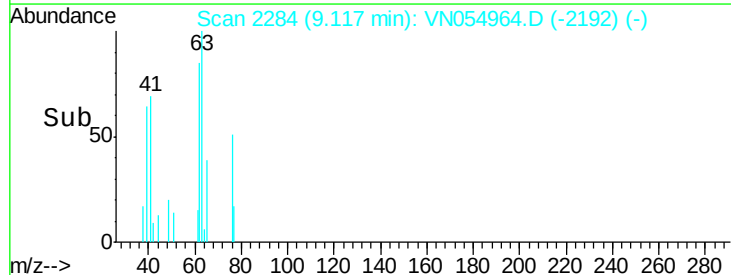
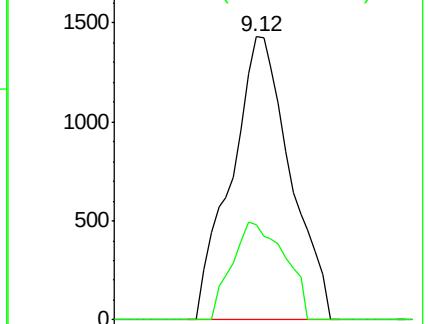
63 100

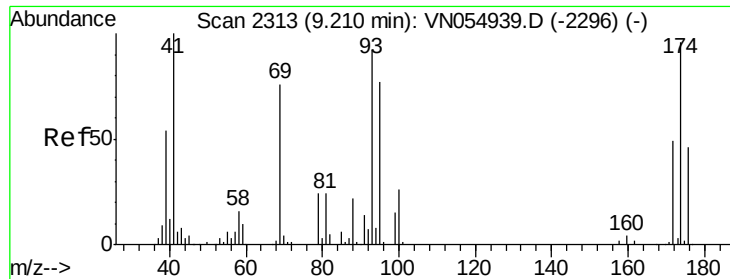
65 33.4 24.6 37.0



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO





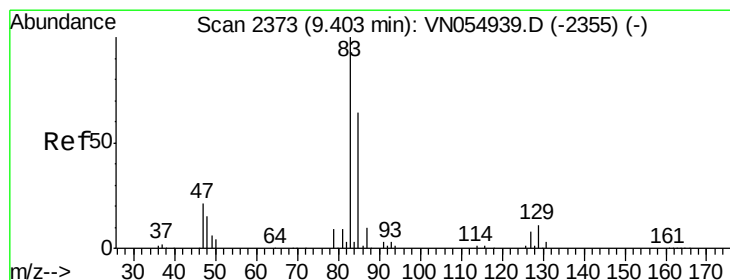
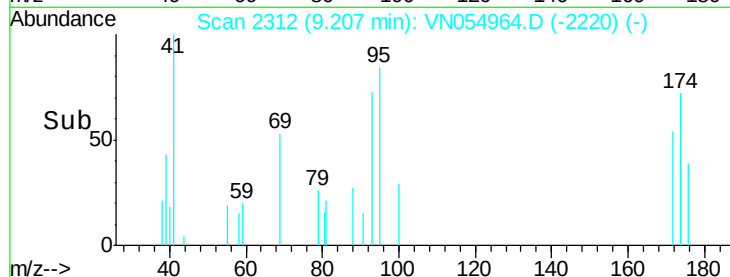
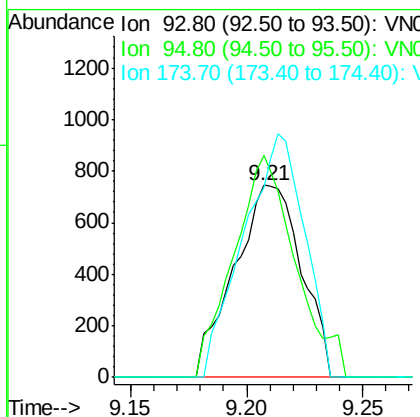
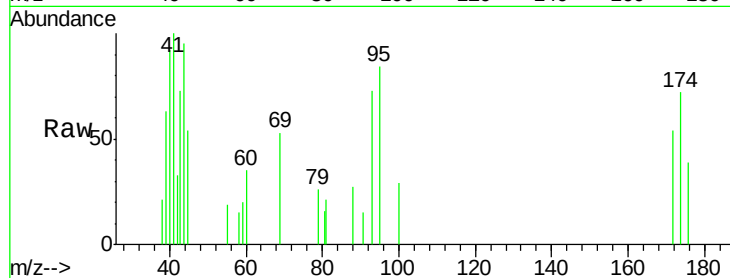
#46
Dibromomethane
Concen: 0.476 ug/l
RT: 9.21 min Scan# 2312
Delta R.T. -0.00 min
Lab File: VN054964.D
Acq: 5 Apr 2019 10:27

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

Tot Ion: 93 Resp: 1495
Ion Ratio Lower Upper
93 100
95 107.0 66.7 100.1#
174 115.1 82.0 123.0

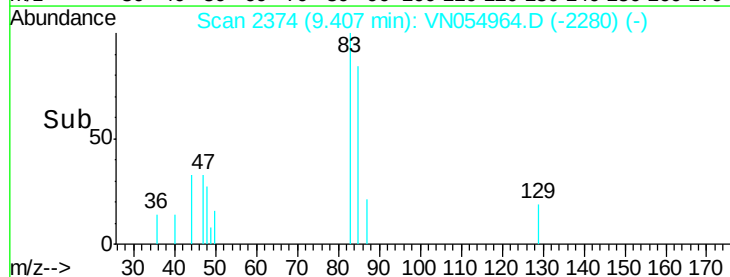
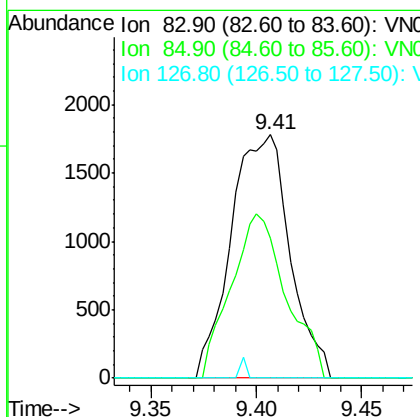
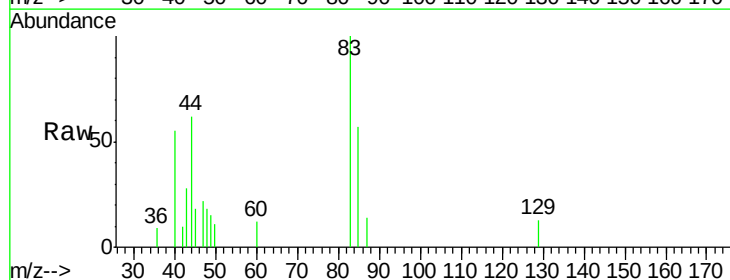
Manual Integrations
APPROVED

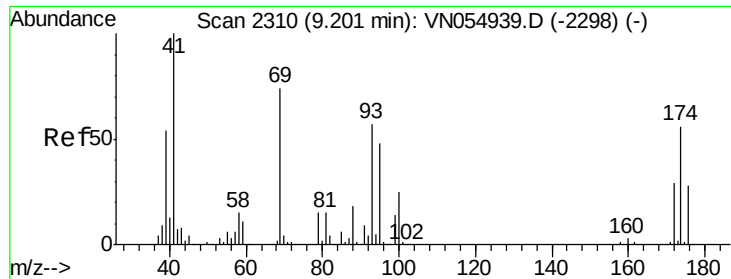
MMDadoda
4/8/2019 3:34:05 AM



#47
Bromodichloromethane
Concen: 0.524 ug/l
RT: 9.41 min Scan# 2374
Delta R.T. 0.00 min
Lab File: VN054964.D
Acq: 5 Apr 2019 10:27

Tgt Ion: 83 Resp: 3455
Ion Ratio Lower Upper
83 100
85 57.4 51.1 76.7
127 0.0 6.7 10.1#





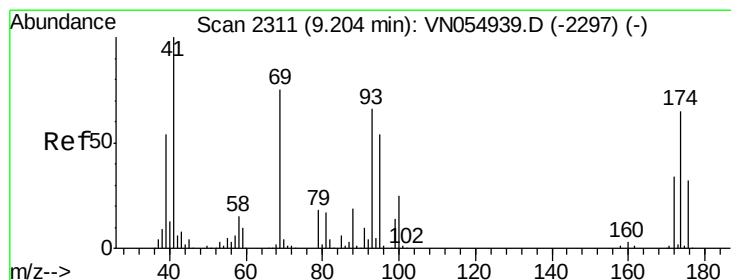
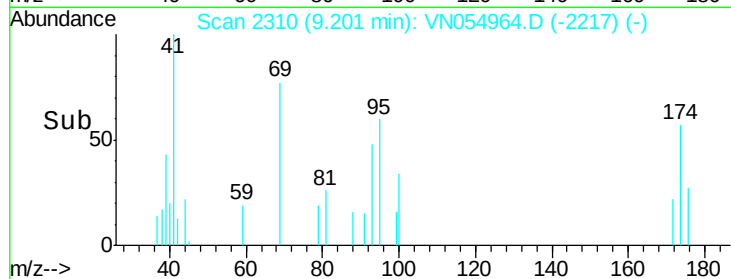
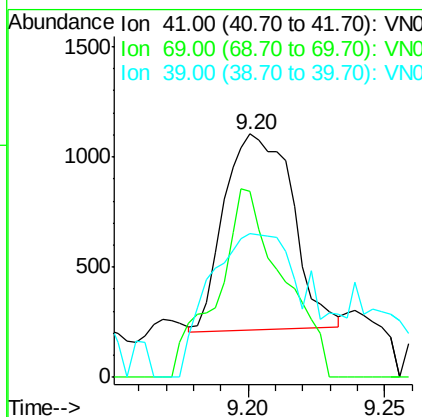
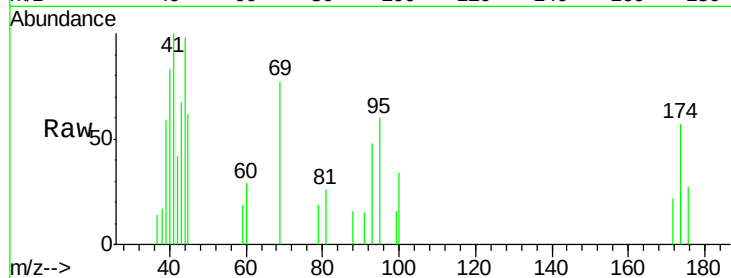
#48
Methyl methacrylate
Concen: 0.381 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN054964.D
Acq: 5 Apr 2019 10:27

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

Tot Ion	Ratio	Lower	Upper
41	100		
69	93.0	58.9	88.3#
39	105.1	44.2	66.4#

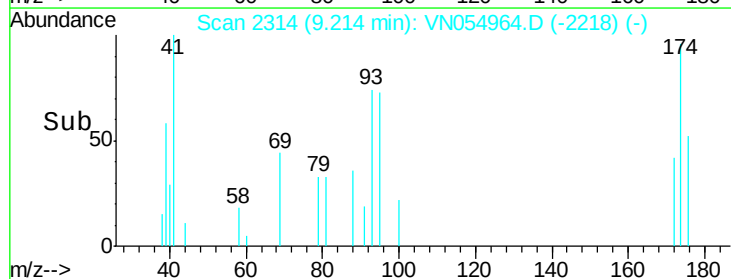
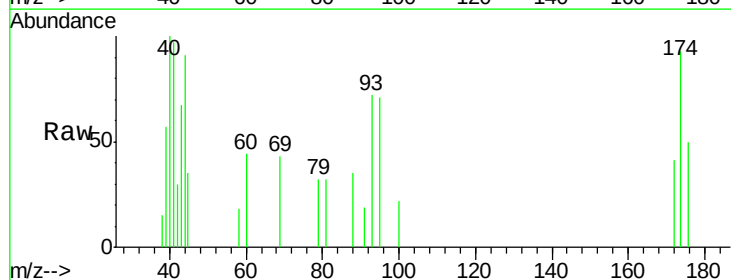
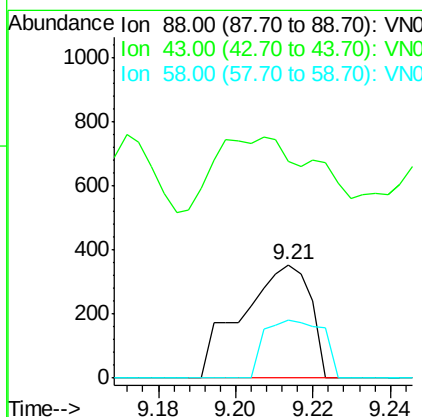
Manual Integrations
APPROVED

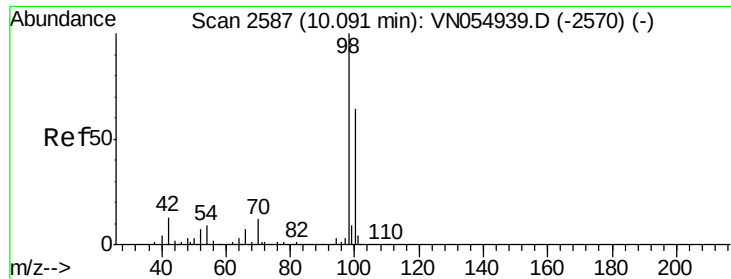
MMDadoda
4/8/2019 3:34:05 AM



#49
1,4-Dioxane
Concen: 10.704 ug/l
RT: 9.21 min Scan# 2314
Delta R.T. 0.01 min
Lab File: VN054964.D
Acq: 5 Apr 2019 10:27

Tgt Ion	Ratio	Lower	Upper
88	100		
43	97.3	31.5	47.3#
58	43.7	61.9	92.9#





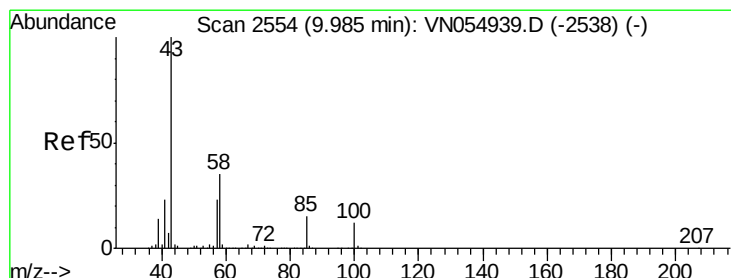
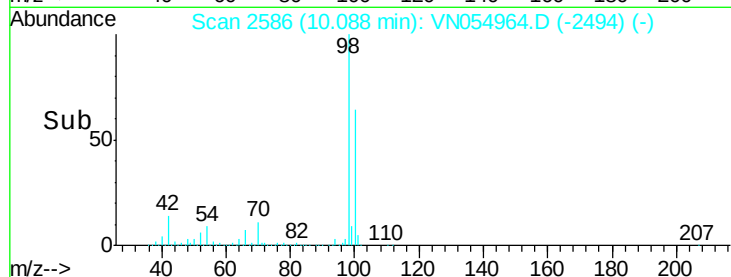
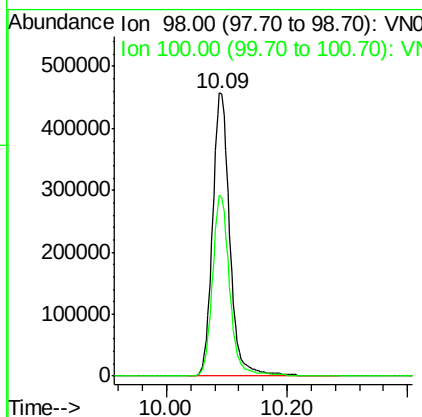
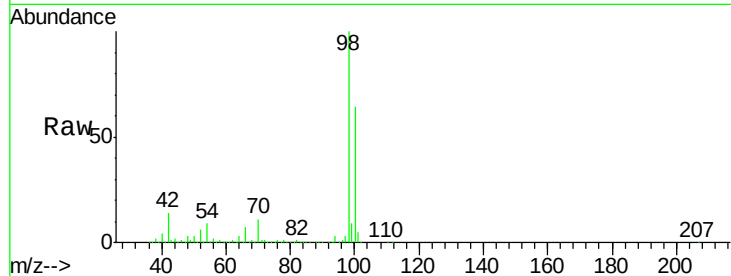
#50
Toluene-d8
Concen: 51.550 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN054964.D
Acq: 5 Apr 2019 10:27

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

Tot Ion: 98 Resp: 887789
Ion Ratio Lower Upper
98 100
100 63.6 51.5 77.3

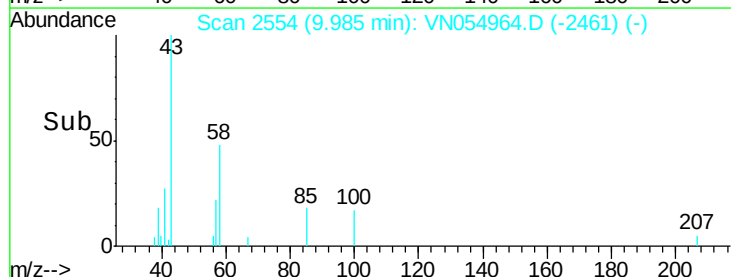
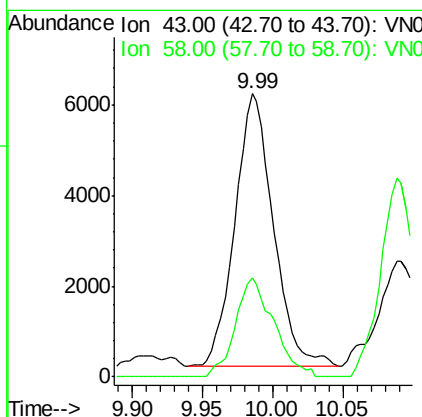
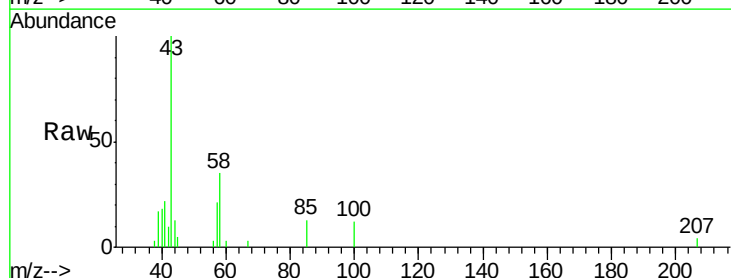
Manual Integrations
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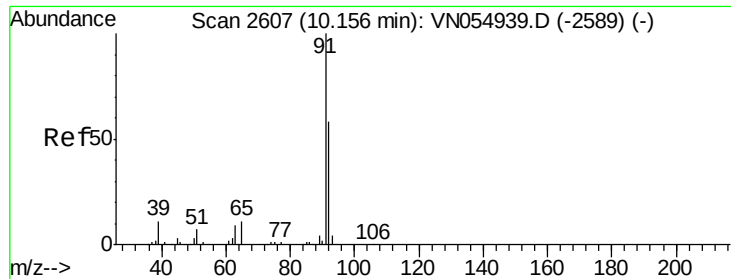
MMDadoda
4/8/2019 3:34:05 AM



#51
4-Methyl-2-Pentanone
Concen: 2.585 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN054964.D
Acq: 5 Apr 2019 10:27

Tgt Ion: 43 Resp: 11521
Ion Ratio Lower Upper
43 100
58 36.1 28.3 42.5





#52

Toluene

Concen: 0.518 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 92 Resp: 6073

Ion Ratio Lower Upper

92 100

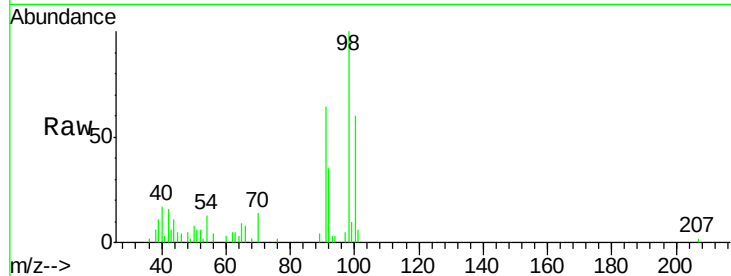
91 188.1 138.8 208.2

Manual Integrations

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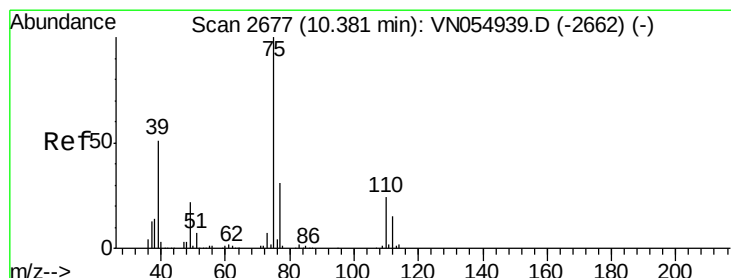
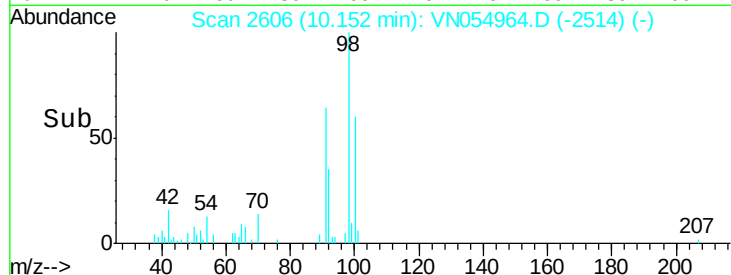
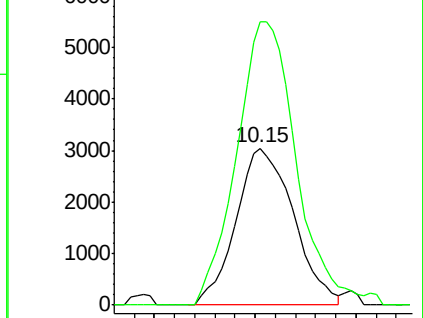
MMDadoda

4/8/2019 3:34:05 AM



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



#53

t-1,3-Dichloropropene

Concen: 2.425 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN054964.D

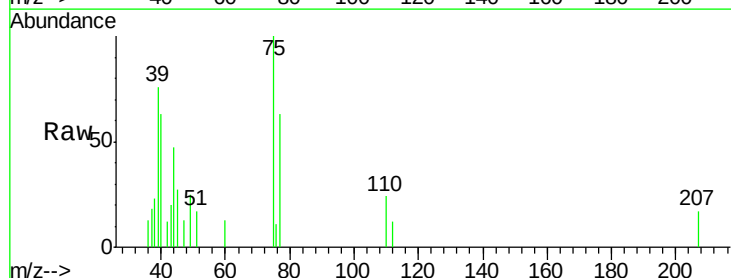
Acq: 5 Apr 2019 10:27

Tgt Ion: 75 Resp: 2831

Ion Ratio Lower Upper

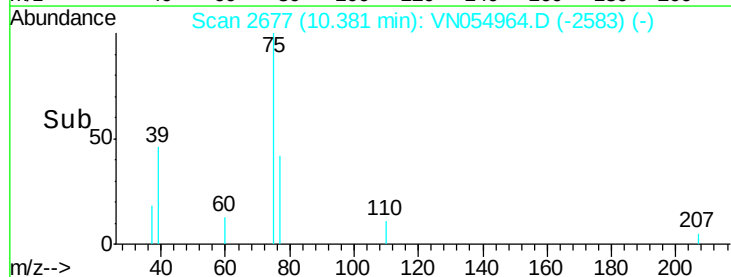
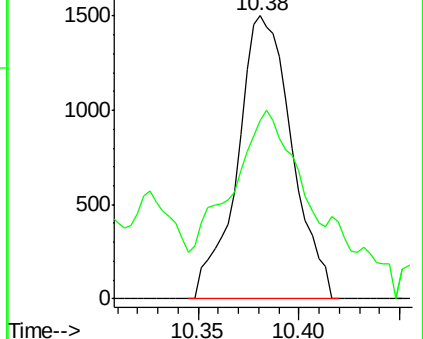
75 100

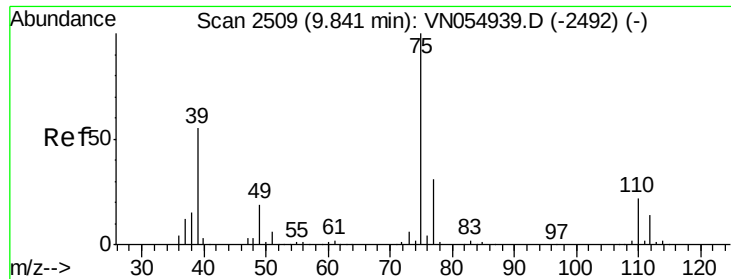
77 46.6 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0





#54

cis-1,3-Dichloropropene

Concen: 0.464 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

Instrument :

MSVOA_N

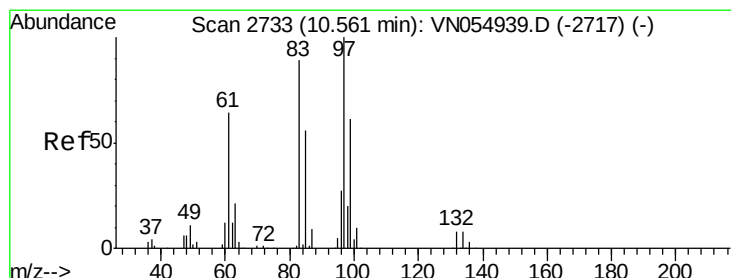
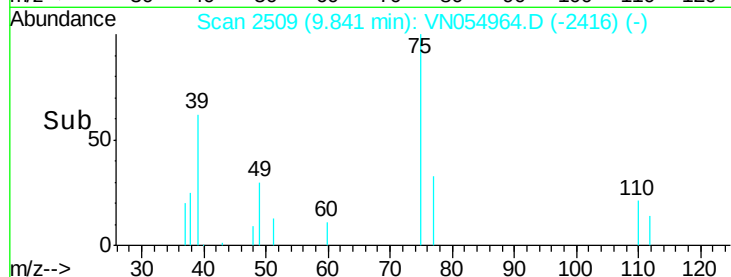
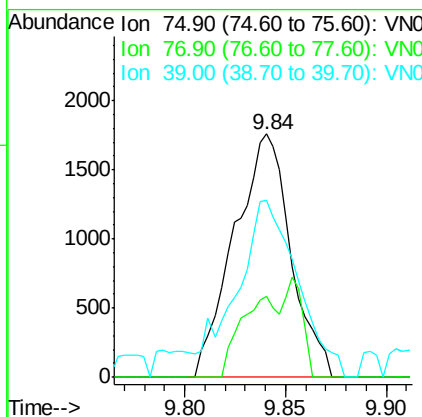
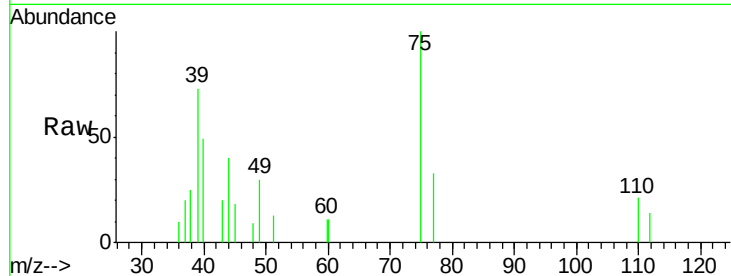
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	75	Resp:	3442
Ion	Ratio	Lower	Upper
75	100		
77	33.1	25.0	37.4
39	63.6	43.9	65.9

Manual Integrations
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4/8/2019 3:34:05 AM



#55

1,1,2-Trichloroethane

Concen: 0.563 ug/l

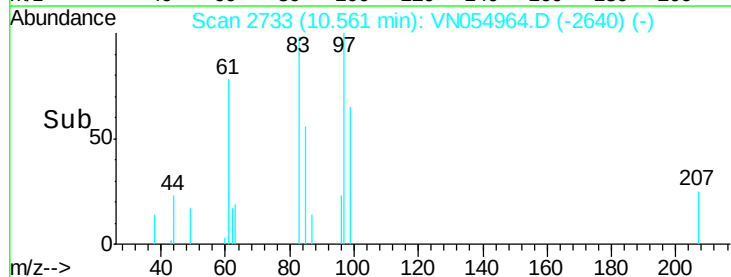
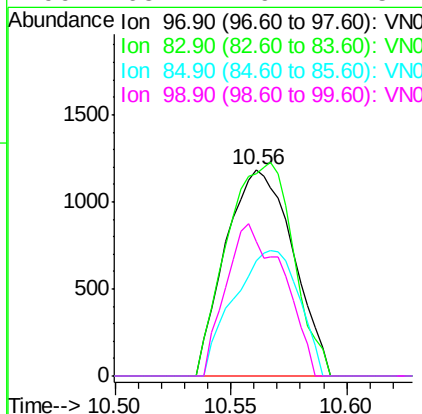
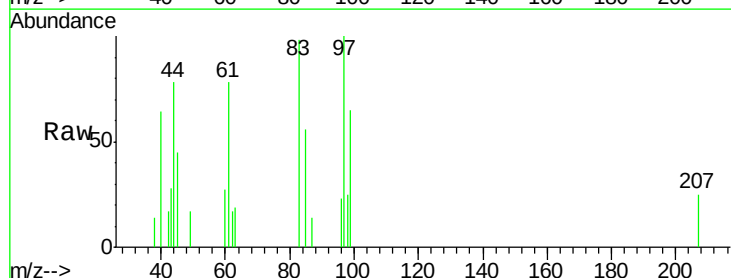
RT: 10.56 min Scan# 2733

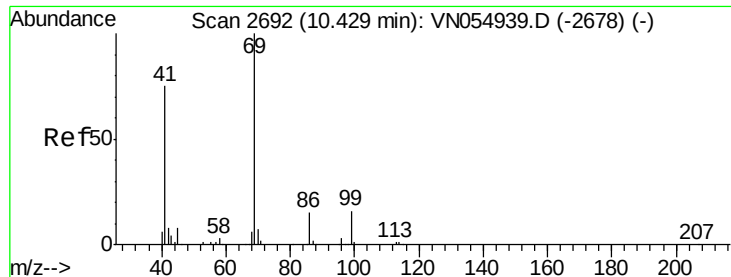
Delta R.T. 0.00 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

Tgt Ion:	97	Resp:	2393
Ion	Ratio	Lower	Upper
97	100		
83	98.1	71.5	107.3
85	55.7	45.0	67.6
99	65.2	49.1	73.7





#56

Ethyl methacrylate

Concen: 0.424 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

Instrument :

MSVOA_N

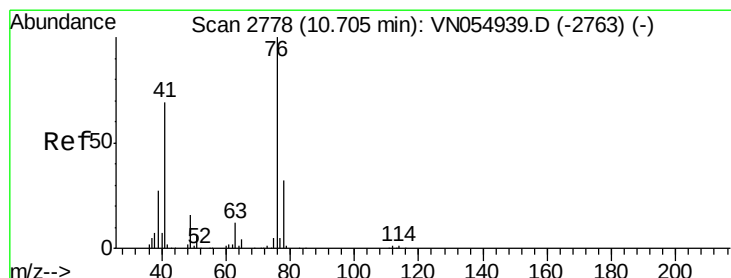
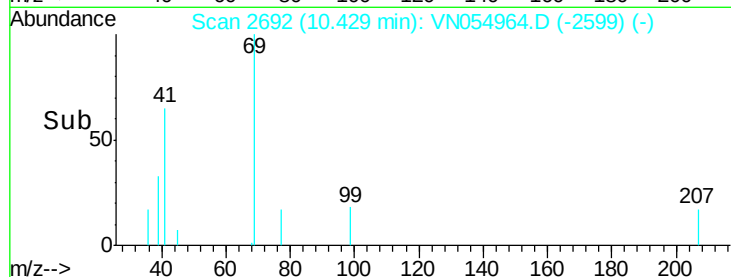
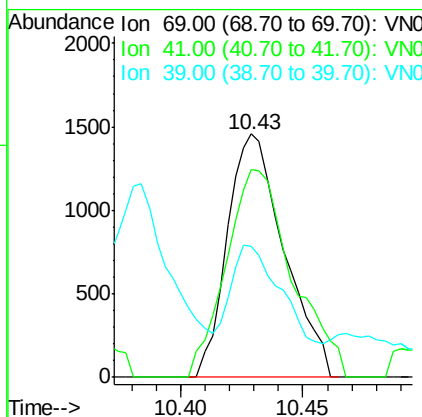
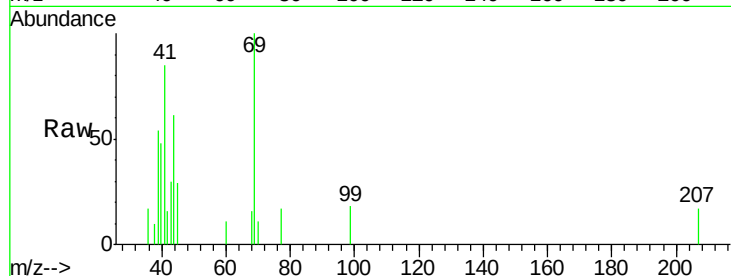
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	69	Resp:	2354
Ion	Ratio	Lower	Upper
69	100		
41	99.5	60.2	90.2#
39	34.7	31.3	46.9

Manual Integrations
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4/8/2019 3:34:05 AM



#57

1,3-Dichloropropane

Concen: 0.500 ug/l

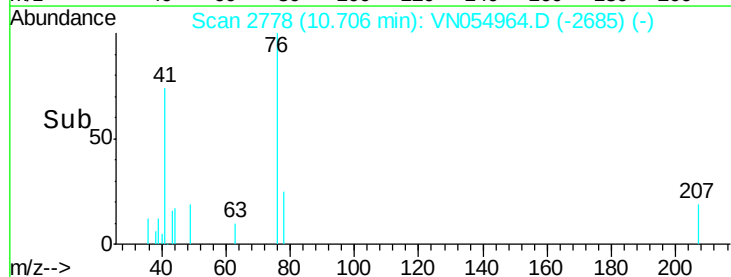
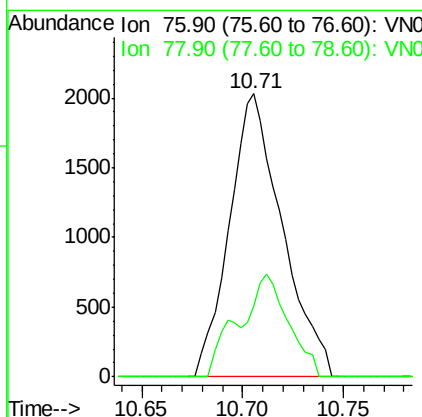
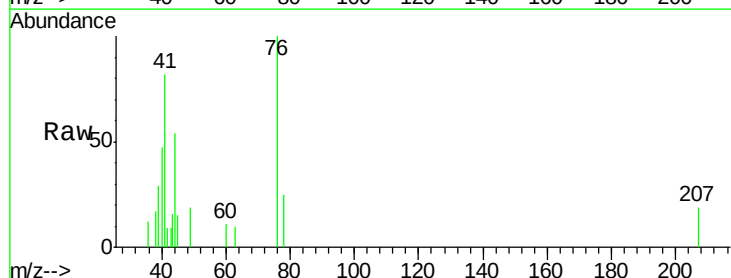
RT: 10.71 min Scan# 2778

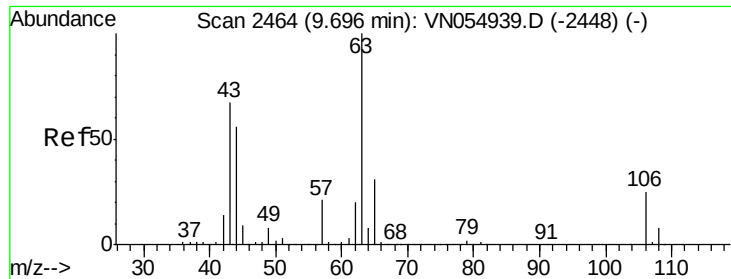
Delta R.T. 0.00 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

Tgt Ion:	76	Resp:	3710
Ion	Ratio	Lower	Upper
76	100		
78	34.0	25.9	38.9





#58

2-Chloroethyl Vinyl ether

Concen: 11.539 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. -0.00 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 63 Resp: 4328

Ion Ratio Lower Upper

63 100

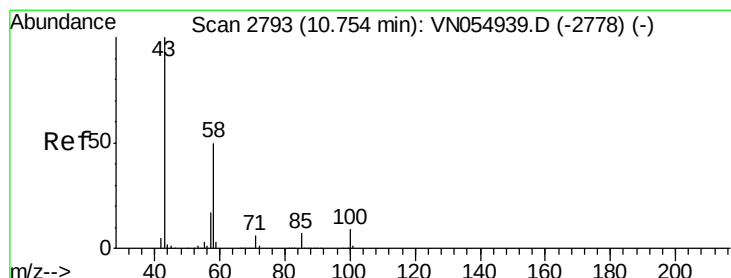
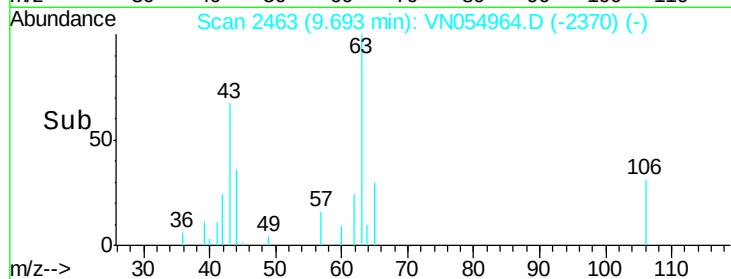
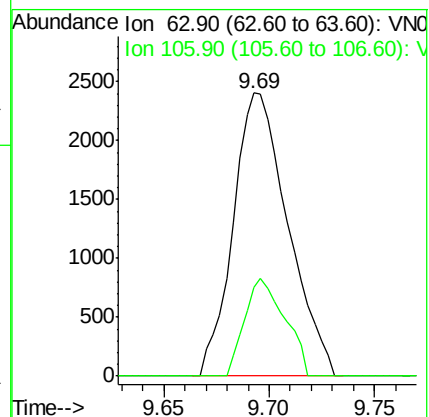
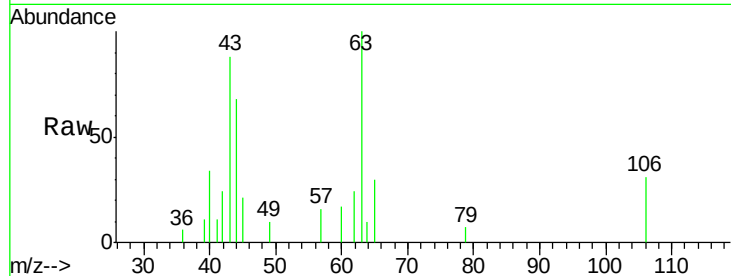
106 25.4 19.7 29.5

Manual Integrations

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MMDadoda

4/8/2019 3:34:05 AM



#59

2-Hexanone

Concen: 2.113 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.00 min

Lab File: VN054964.D

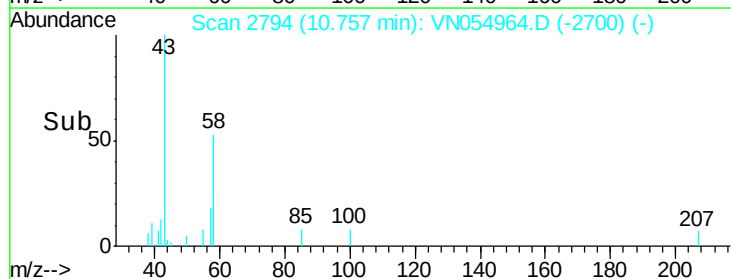
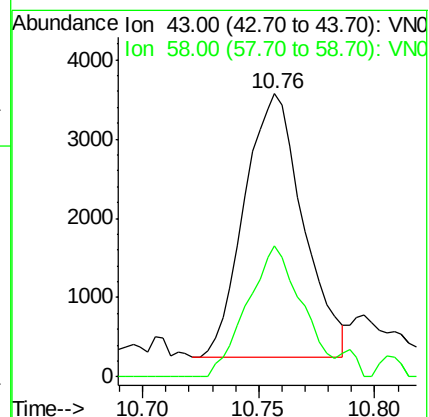
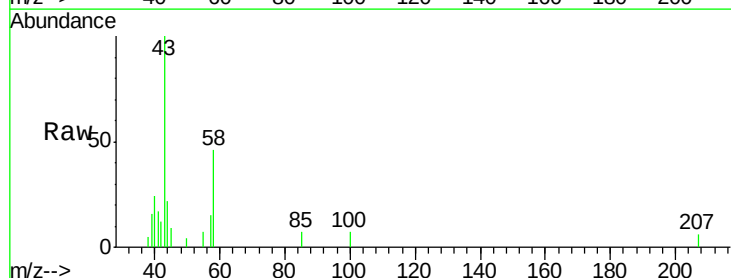
Acq: 5 Apr 2019 10:27

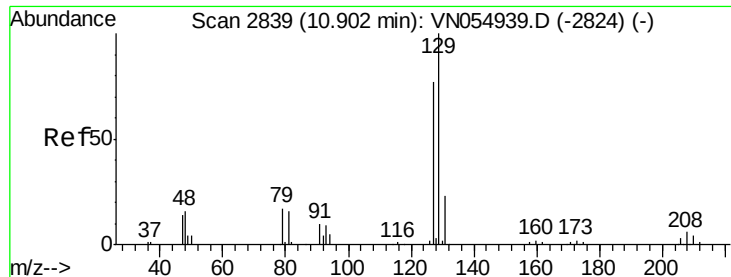
Tgt Ion: 43 Resp: 5884

Ion Ratio Lower Upper

43 100

58 46.4 24.6 73.8





#60

Dibromochloromethane

Concen: 0.426 ug/l

RT: 10.90 min Scan# 2837

Delta R.T. -0.01 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:129 Resp: 1895

Ion Ratio Lower Upper

129 100

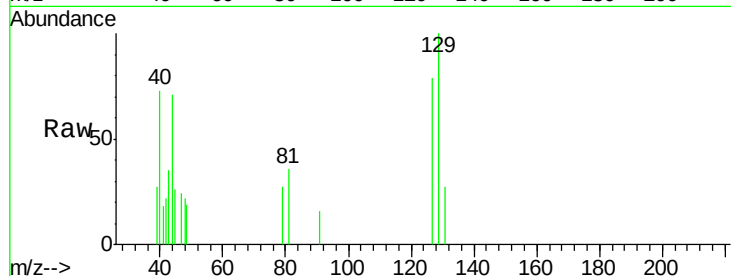
127 81.8 38.4 115.2

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Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.90

800

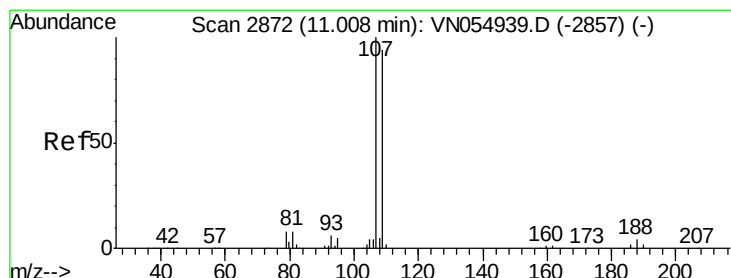
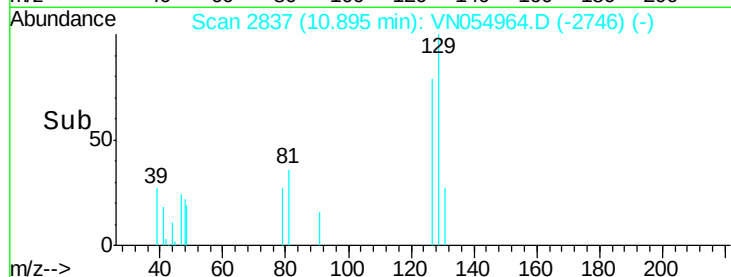
600

400

200

0

Time--> 10.85 10.90



#61

1,2-Dibromoethane

Concen: 0.569 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN054964.D

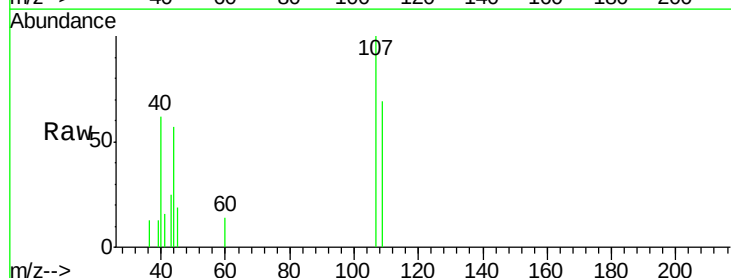
Acq: 5 Apr 2019 10:27

Tgt Ion:107 Resp: 2271

Ion Ratio Lower Upper

107 100

109 69.8 74.6 112.0#



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

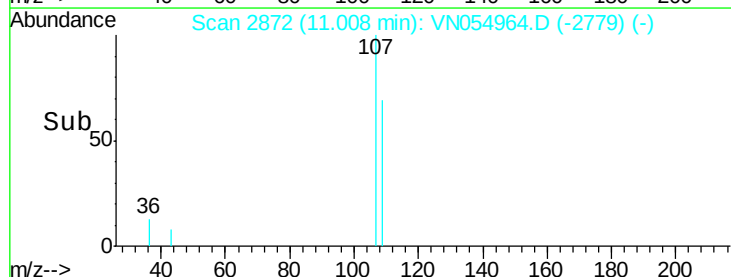
11.01

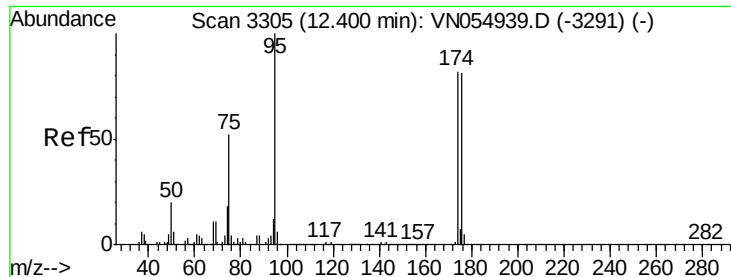
1000

500

0

Time--> 10.95 11.00 11.05





#62

4-Bromofluorobenzene

Concen: 45.643 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

Instrument :

MSVOA_N

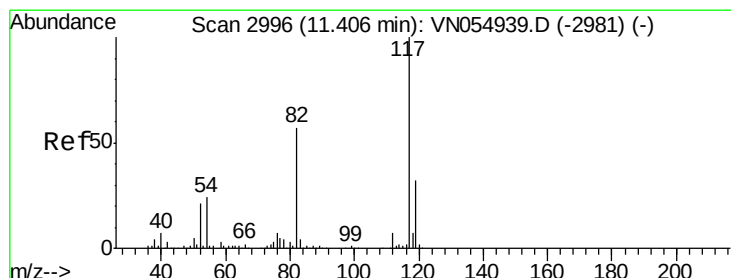
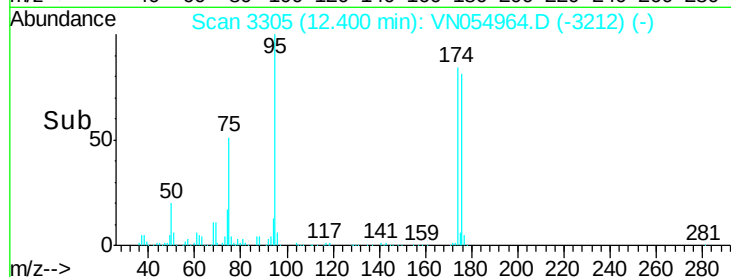
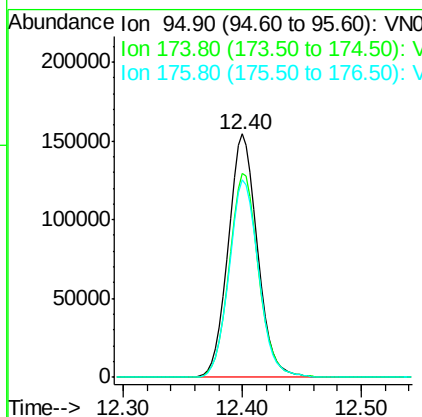
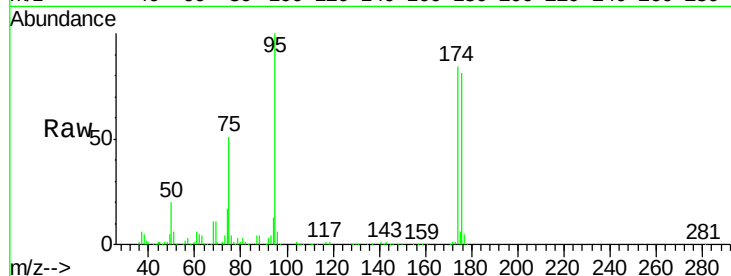
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	95	Resp:	262330
Ion	Ratio	Lower	Upper
95	100		
174	84.3	0.0	166.2
176	82.2	0.0	163.2

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#63

Chlorobenzene-d5

Concen: 50.000 ug/l

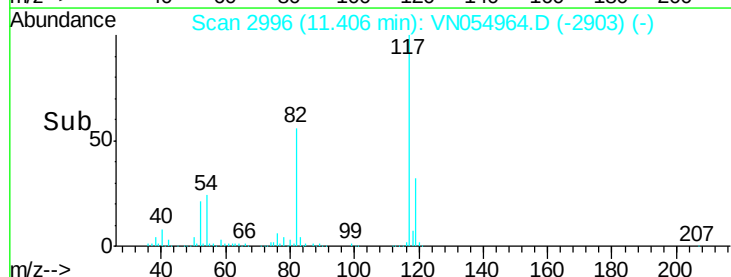
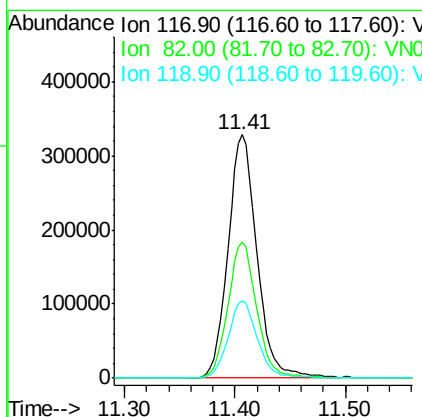
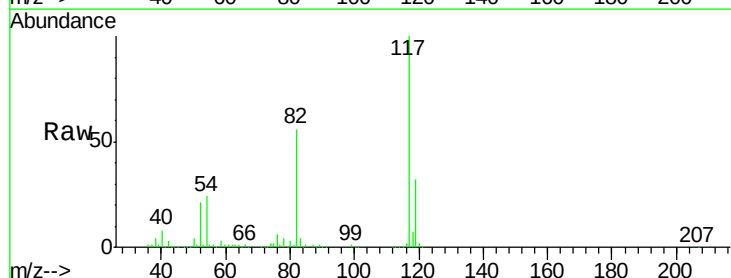
RT: 11.41 min Scan# 2996

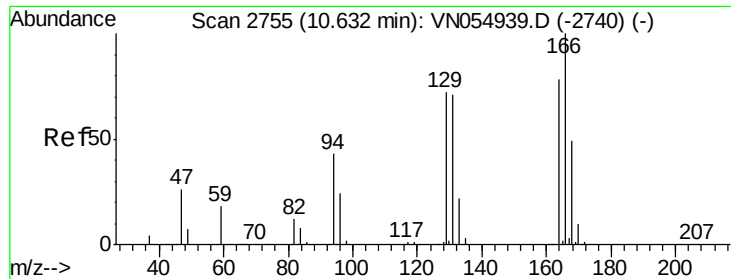
Delta R.T. 0.00 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

Tgt Ion:	117	Resp:	597021
Ion	Ratio	Lower	Upper
117	100		
82	56.1	45.3	67.9
119	31.8	25.8	38.6





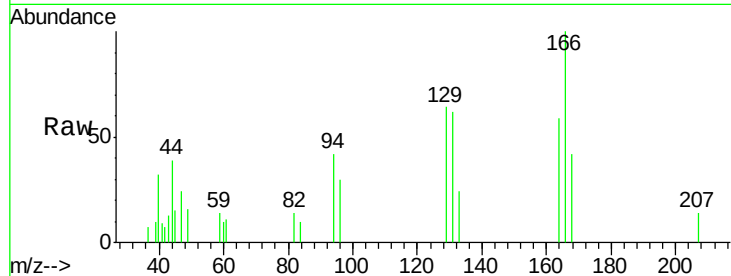
#64
Tetrachloroethene
Concen: 0.521 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN054964.D
Acq: 5 Apr 2019 10:27

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

Tot Ion	Ratio	Lower	Upper
164	100		
166	168.9	103.1	154.7#
129	107.7	73.9	110.9
131	104.0	73.0	109.4

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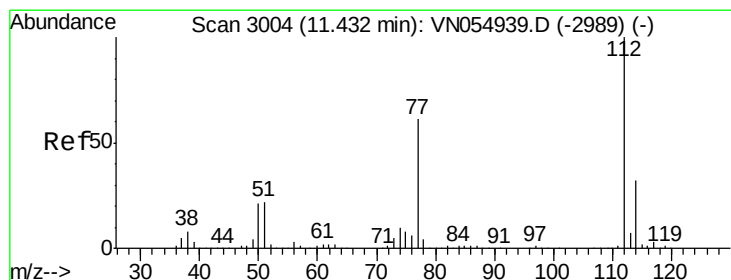
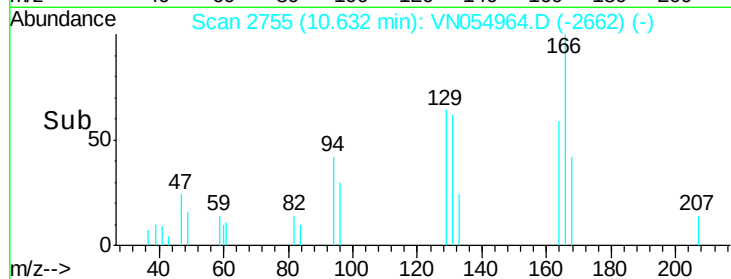
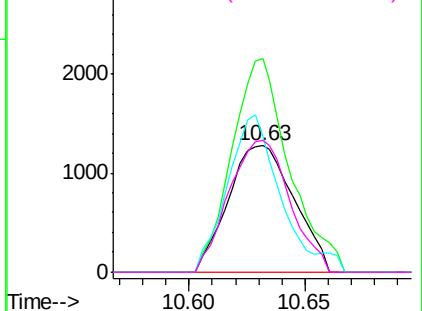


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

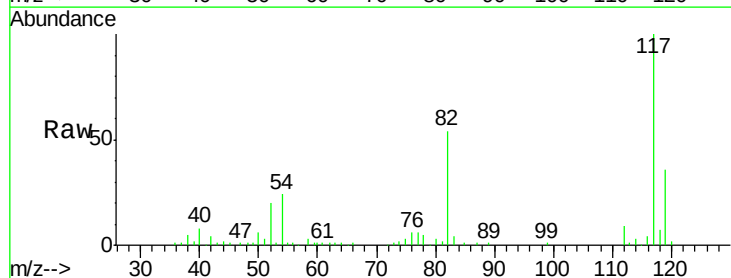
Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



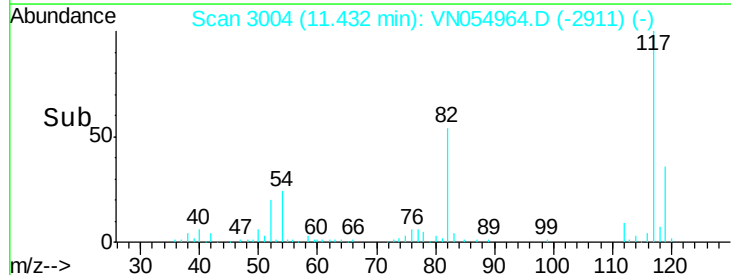
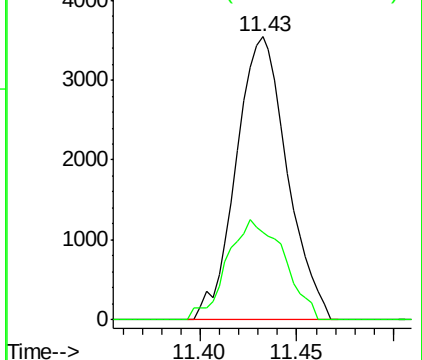
#65
Chlorobenzene
Concen: 0.535 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN054964.D
Acq: 5 Apr 2019 10:27

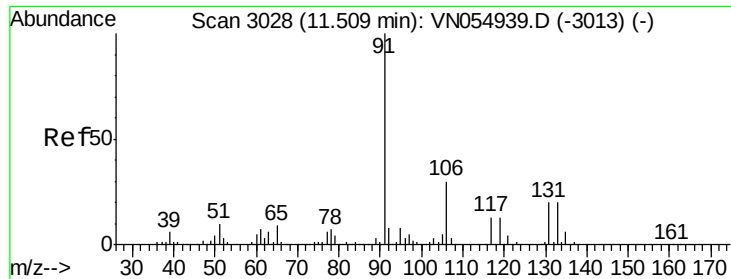
Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.0	25.4	38.0



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V





#66

1,1,1,2-Tetrachloroethane

Concen: 0.472 ug/l

RT: 11.50 min Scan# 3026

Delta R.T. -0.01 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

Instrument :

MSVOA_N

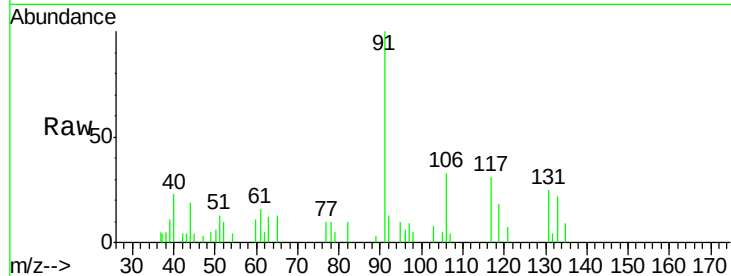
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion	Ratio	Lower	Upper
131	100		
133	100.4	48.1	144.4
119	0.0	33.1	99.2#

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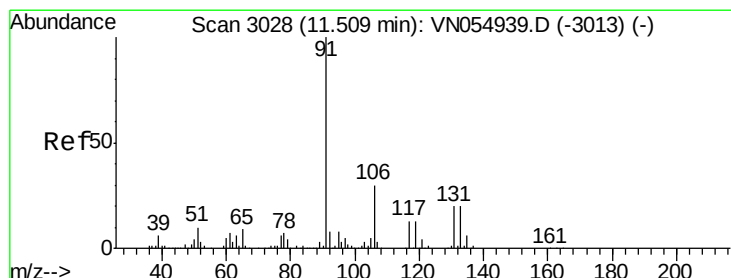
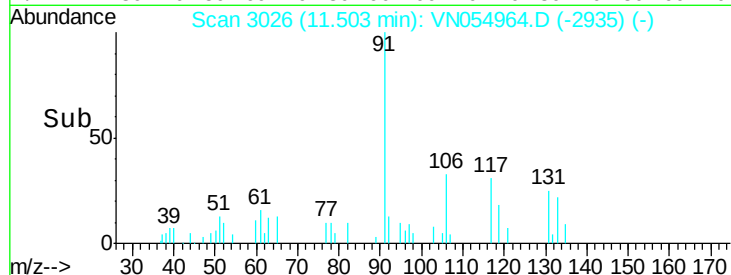
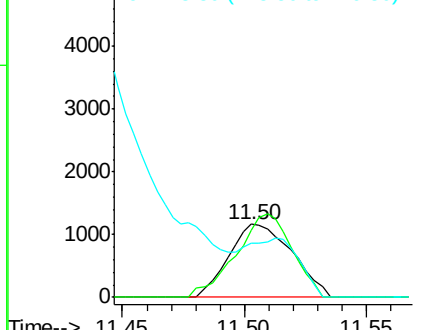


Abundance

Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V



#67

Ethyl Benzene

Concen: 0.502 ug/l

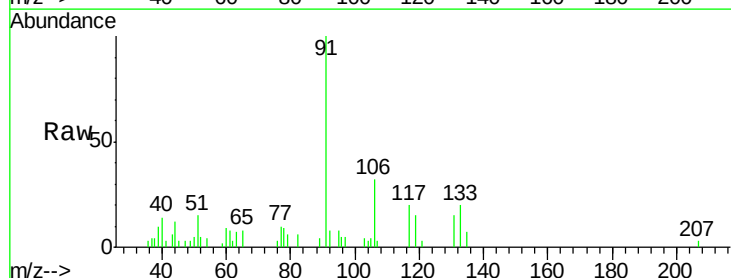
RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

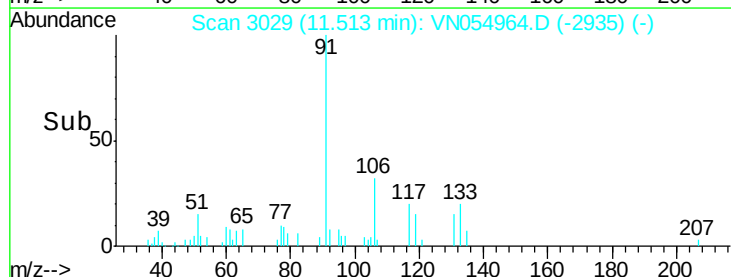
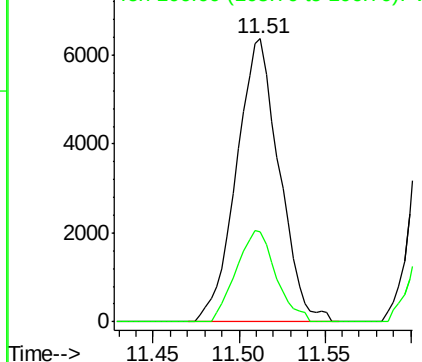
Tgt Ion	Ratio	Lower	Upper
91	100		
106	31.9	24.1	36.1

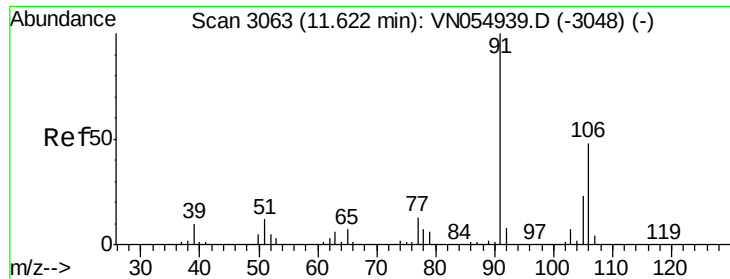


Abundance

Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V





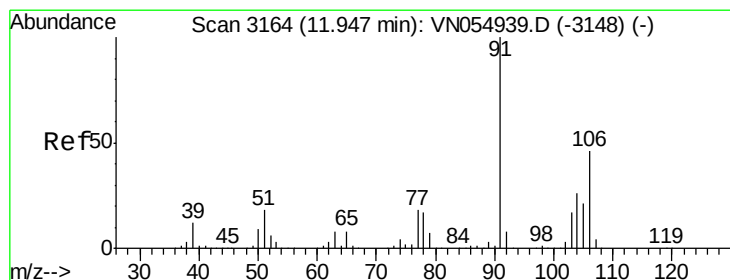
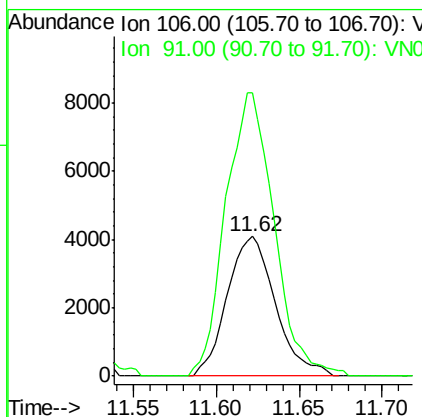
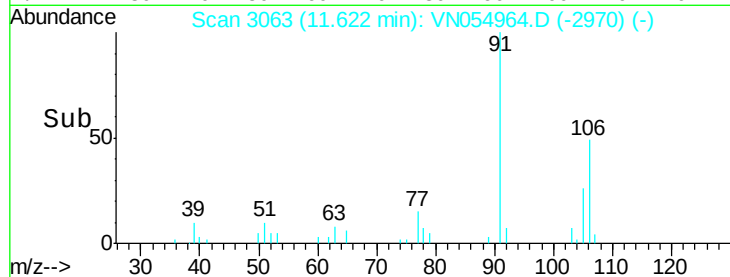
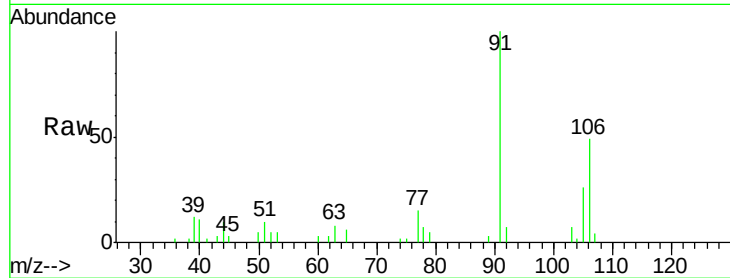
#68
m/p-Xylenes
Concen: 1.031 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN054964.D
Acq: 5 Apr 2019 10:27

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

Tot Ion:106 Resp: 8268
Ion Ratio Lower Upper
106 100
91 203.2 167.4 251.2

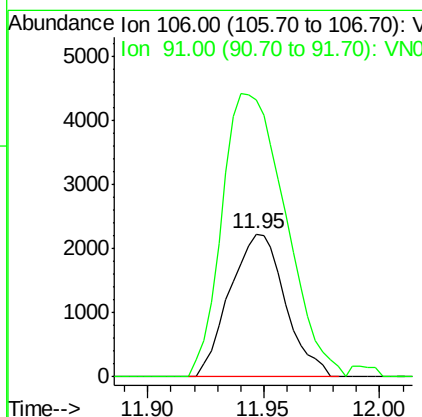
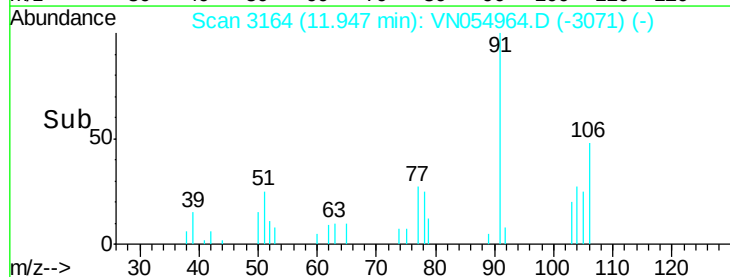
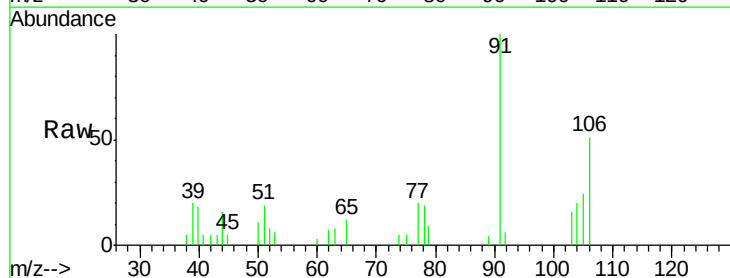
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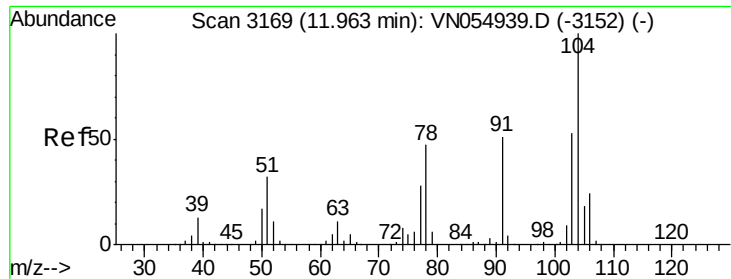
MMDadoda
4/8/2019 3:34:05 AM



#69
o-Xylene
Concen: 0.472 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN054964.D
Acq: 5 Apr 2019 10:27

Tgt Ion:106 Resp: 3694
Ion Ratio Lower Upper
106 100
91 227.0 109.9 329.7





#70

Stvrene

Concen: 0.466 ug/l

RT: 11.96 min Scan# 3169

Delta R.T. 0.00 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

Instrument :

MSVOA_N

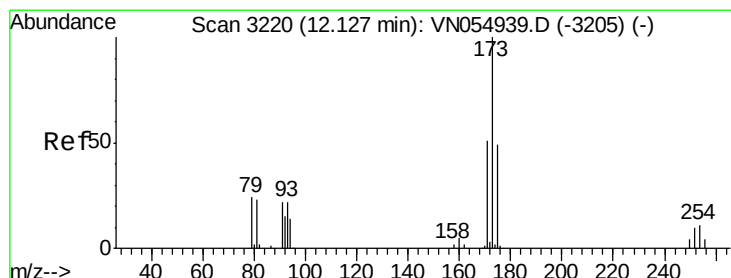
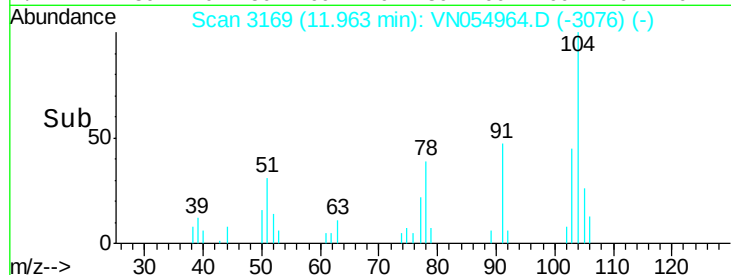
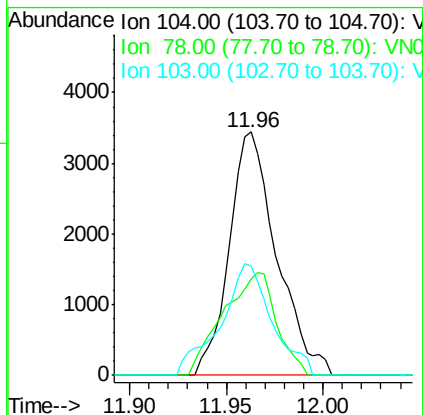
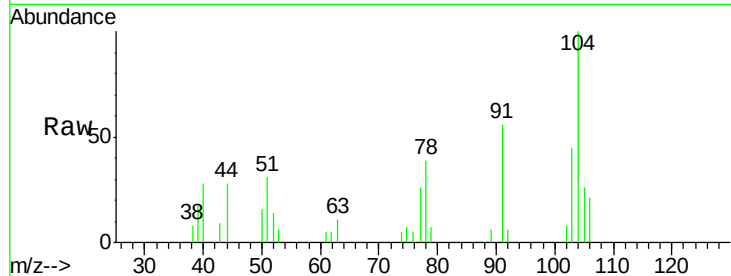
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	104	Resp:	5850
Ion	Ratio	Lower	Upper
104	100		
78	47.7	41.1	61.7
103	49.7	45.0	67.4

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4/8/2019 3:34:05 AM



#71

Bromoform

Concen: 0.388 ug/l

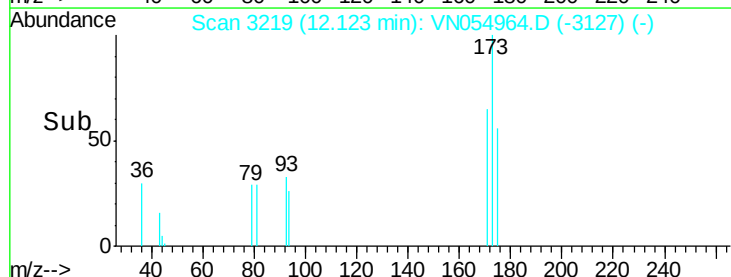
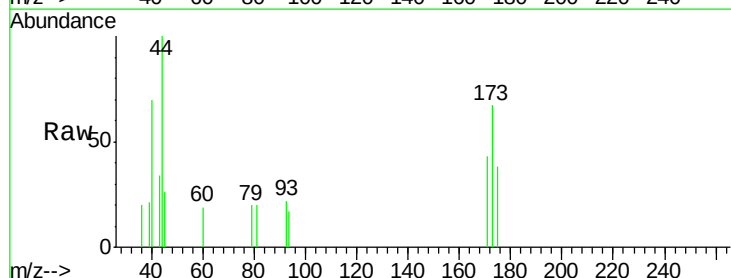
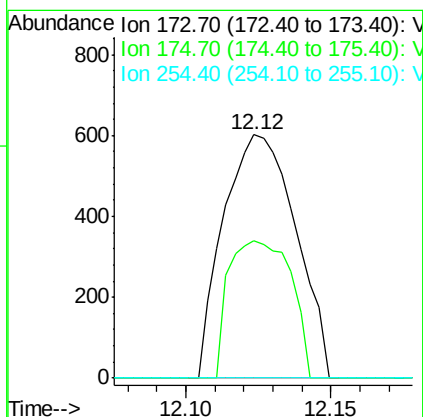
RT: 12.12 min Scan# 3219

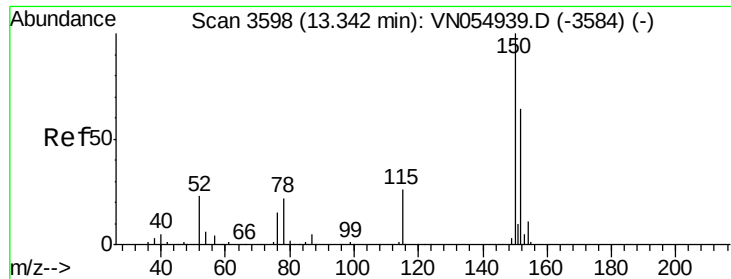
Delta R.T. -0.00 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

Tgt Ion:	173	Resp:	1040
Ion	Ratio	Lower	Upper
173	100		
175	48.4	24.1	72.4
254	0.0	0.0	0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

Instrument :

MSVOA_N

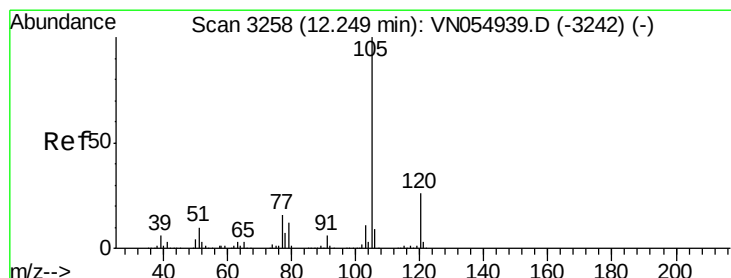
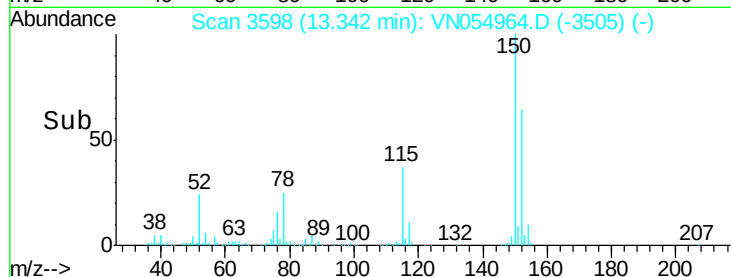
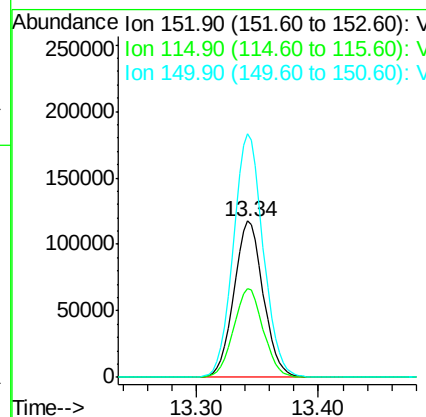
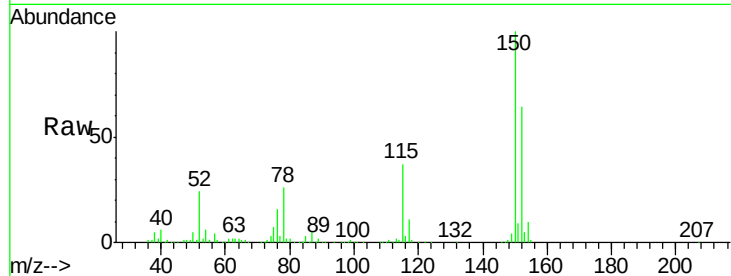
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	152	Resp:	197261
Ion Ratio	Lower	Upper	
152	100		
115	57.6	28.9	86.8
150	158.0	0.0	345.4

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#73

Isopropylbenzene

Concen: 0.603 ug/l

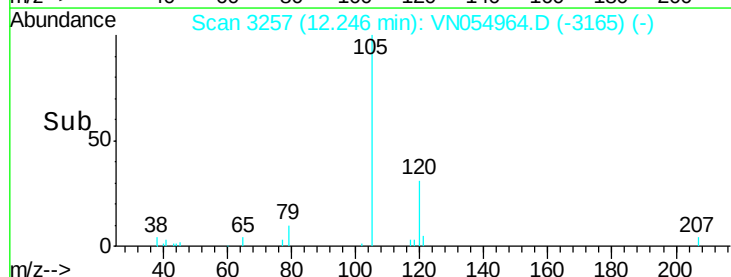
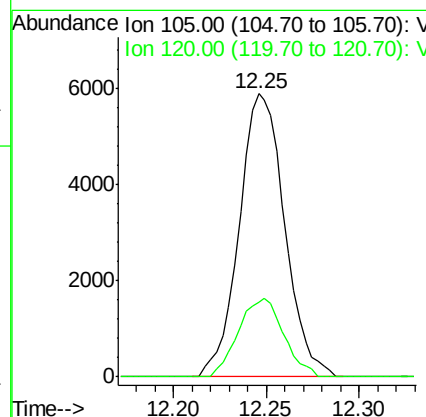
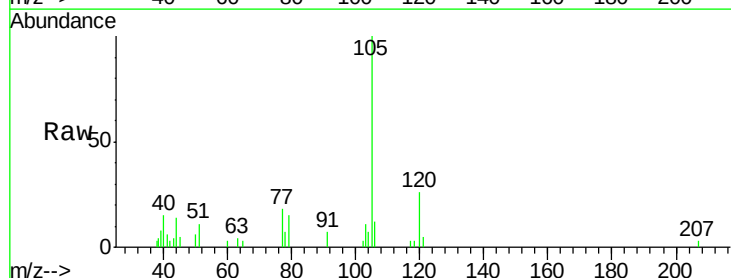
RT: 12.25 min Scan# 3257

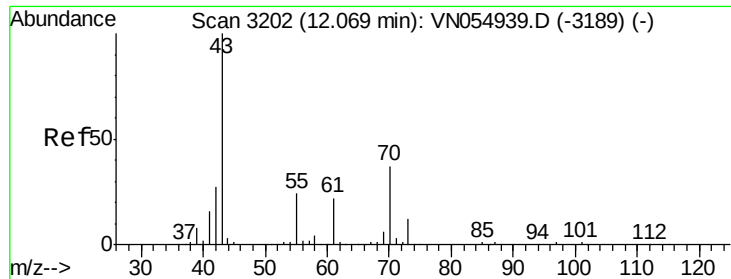
Delta R.T. -0.00 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

Tgt Ion:	105	Resp:	10043
Ion Ratio	Lower	Upper	
105	100		
120	27.5	13.0	39.0





#74

N-amvl acetate

Concen: 0.498 ug/l

RT: 12.08 min Scan# 3204

Delta R.T. 0.01 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

Instrument :

MSVOA_N

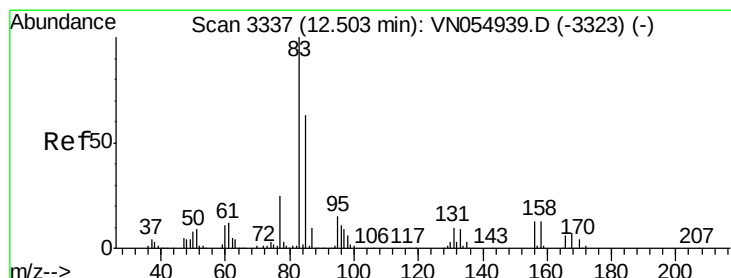
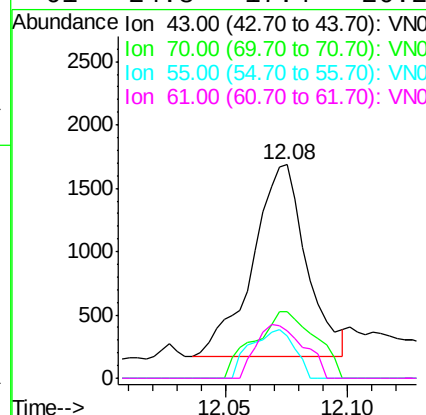
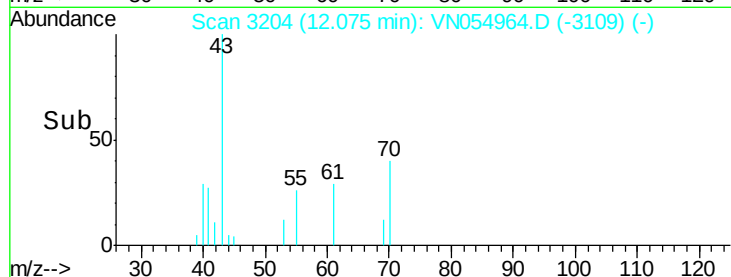
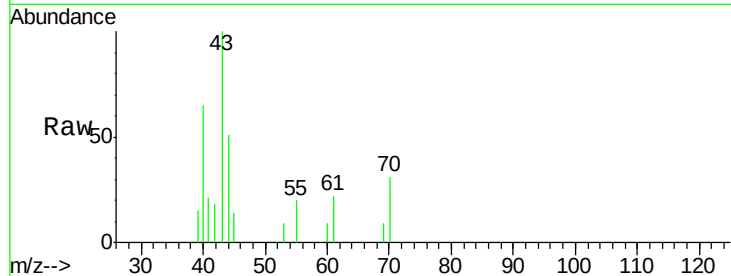
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	43	Resp:	2307
Ion	Ratio	Lower	Upper
43	100		
70	39.5	29.3	43.9
55	20.9	19.2	28.8
61	24.8	17.4	26.2

Manual Integrations
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#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

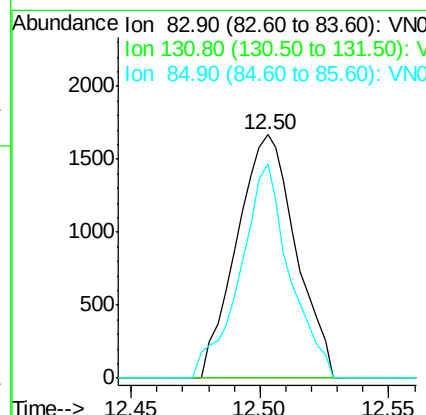
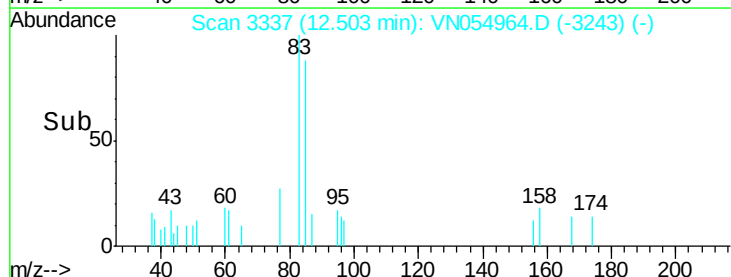
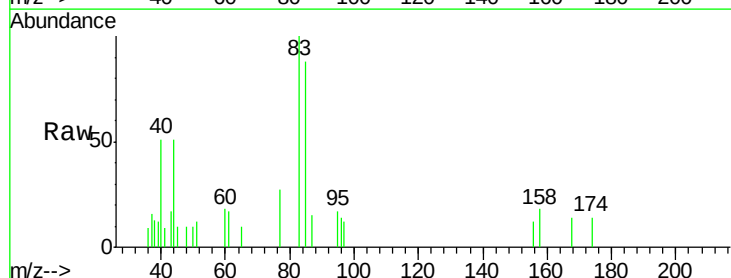
RT: 12.50 min Scan# 3337

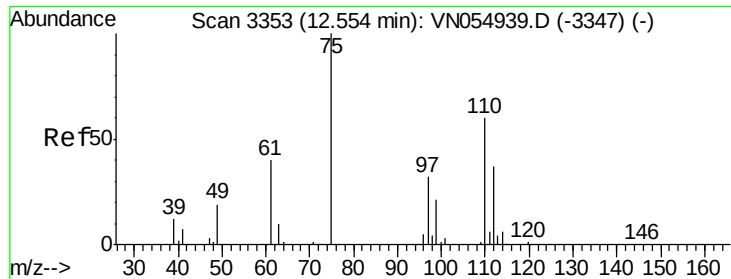
Delta R.T. 0.00 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

Tgt Ion:	83	Resp:	2662
Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.0	15.0#
85	74.3	31.4	94.0





#76

1,2,3-Trichloropropane

Concen: Below Cal m

RT: 12.55 min Scan# 3352

Delta R.T. -0.00 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 75 Resp: 2604

Ion Ratio Lower Upper

75 100

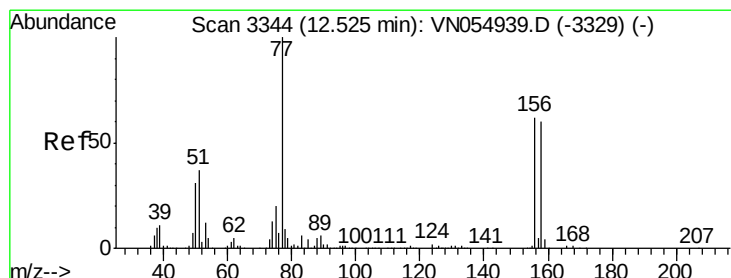
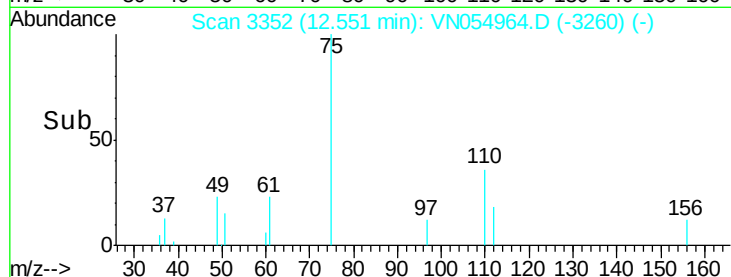
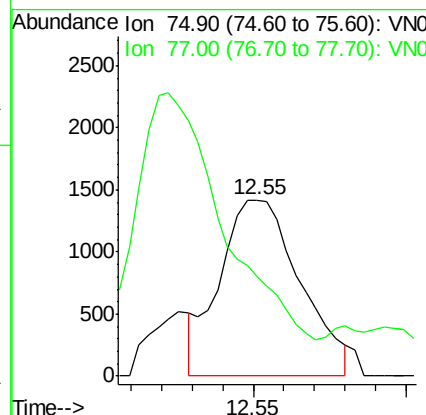
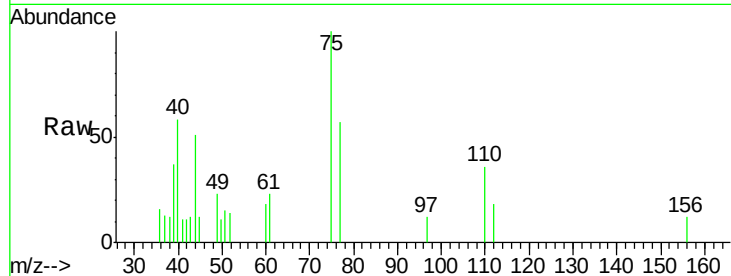
77 63.9 0.0 0.0#

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MMDadoda

4/8/2019 3:34:05 AM



#77

Bromobenzene

Concen: 0.619 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

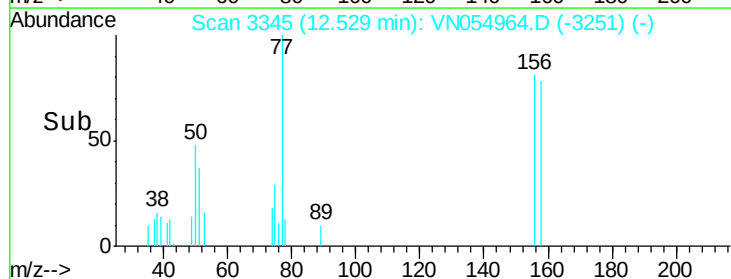
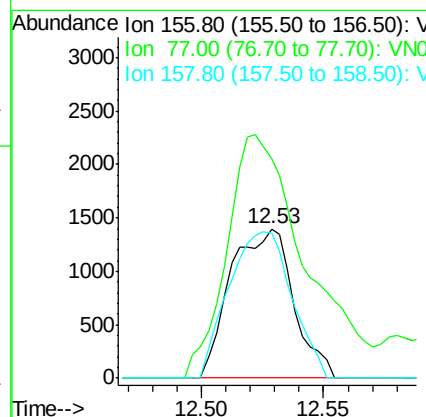
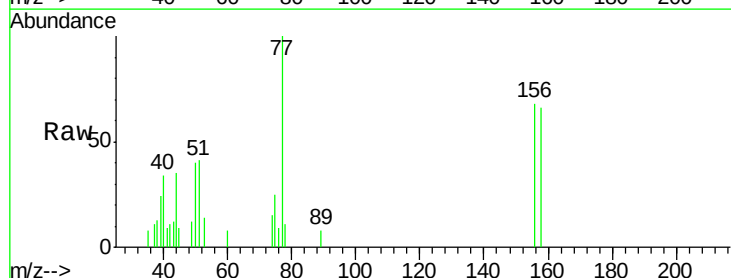
Tgt Ion: 156 Resp: 2499

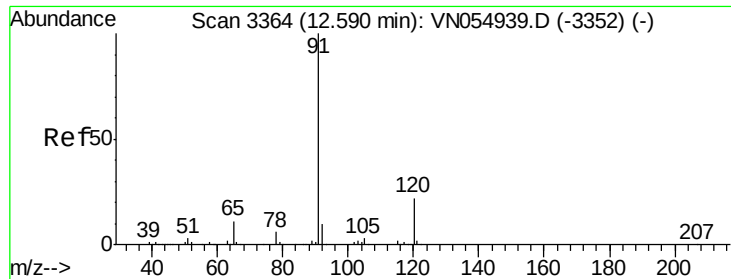
Ion Ratio Lower Upper

156 100

77 203.9 93.1 279.3

158 98.4 48.4 145.3





#78

n-propylbenzene

Concen: 0.594 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 91 Resp: 10913

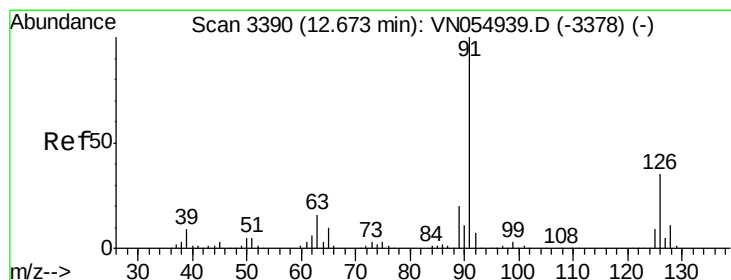
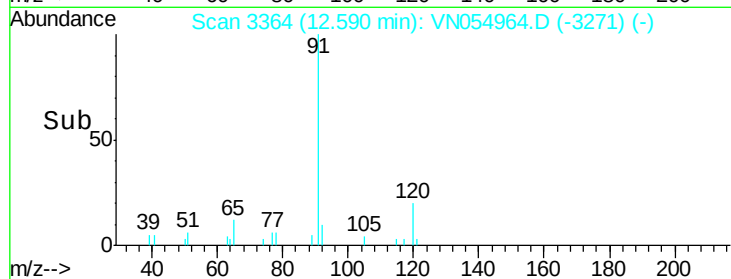
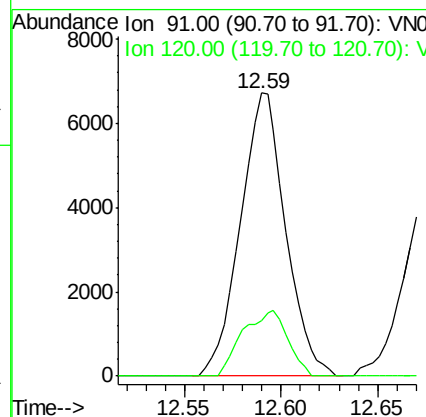
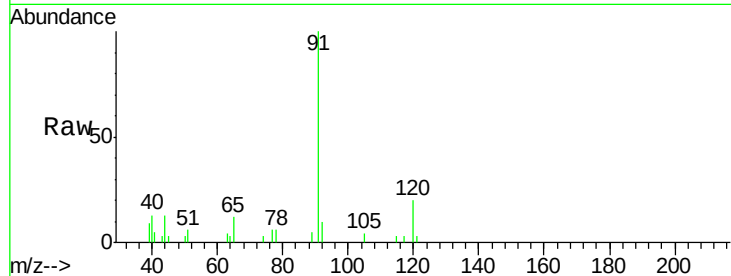
Ion Ratio Lower Upper

91 100

120 23.0 11.2 33.6

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#79

2-Chlorotoluene

Concen: 0.613 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN054964.D

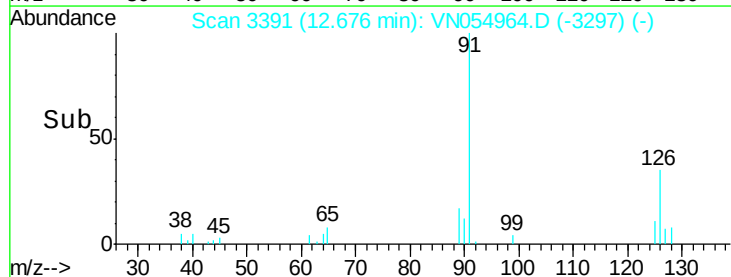
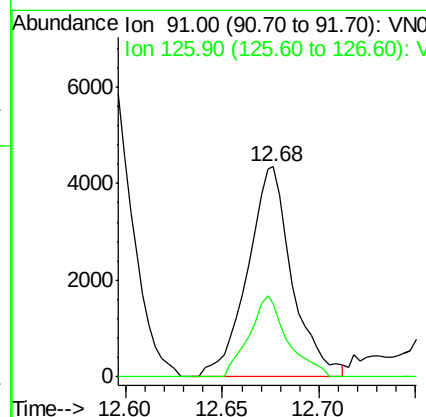
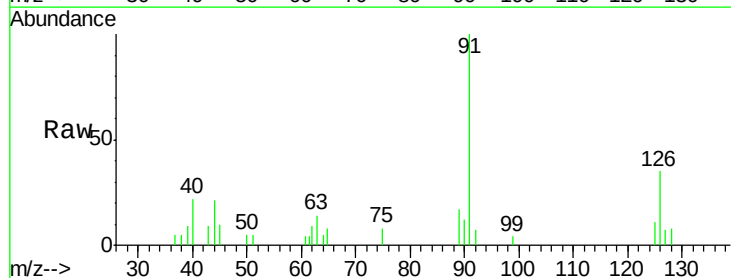
Acq: 5 Apr 2019 10:27

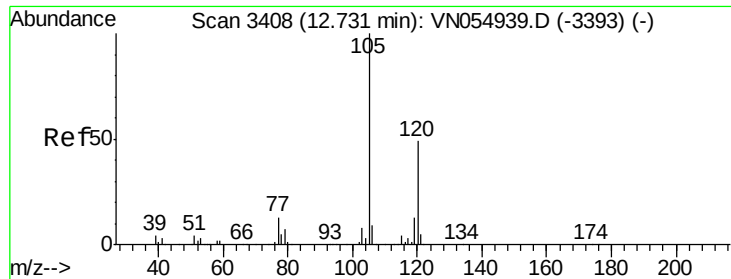
Tgt Ion: 91 Resp: 6970

Ion Ratio Lower Upper

91 100

126 33.2 17.4 52.2





#80

1,3,5-Trimethylbenzene

Concen: 0.568 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:105 Resp: 7779

Ion Ratio Lower Upper

105 100

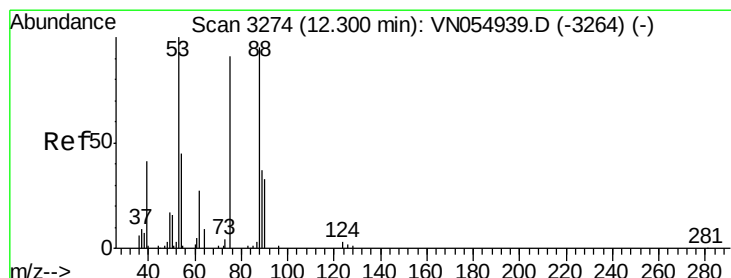
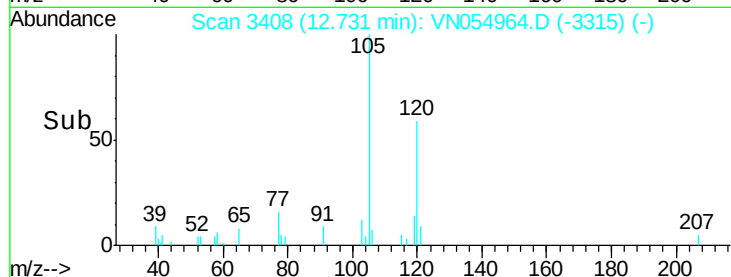
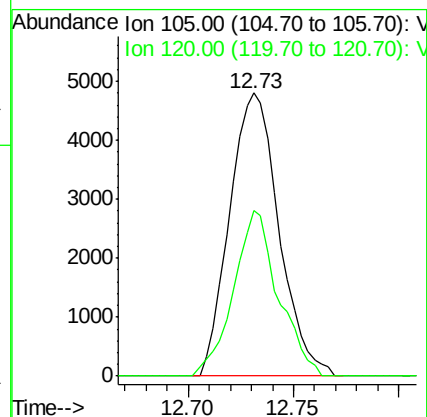
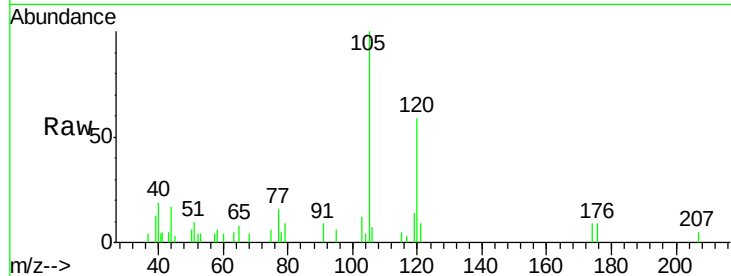
120 53.2 24.1 72.3

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#81

trans-1,4-Dichloro-2-butene

Concen: 0.377 ug/l m

RT: 12.31 min Scan# 3276

Delta R.T. 0.01 min

Lab File: VN054964.D

Acq: 5 Apr 2019 10:27

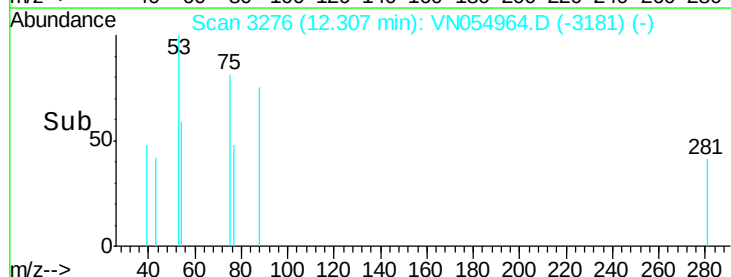
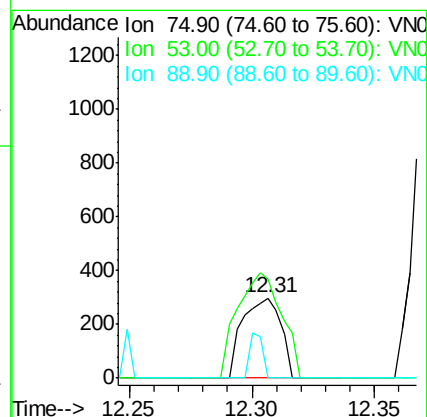
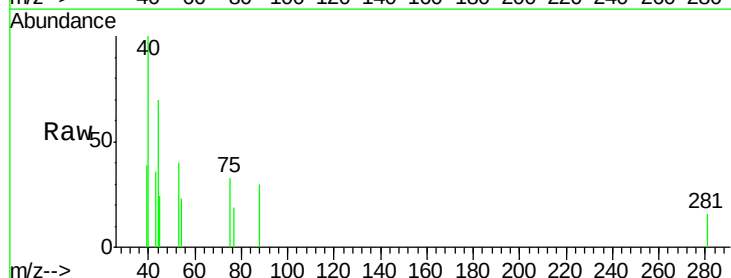
Tgt Ion: 75 Resp: 322

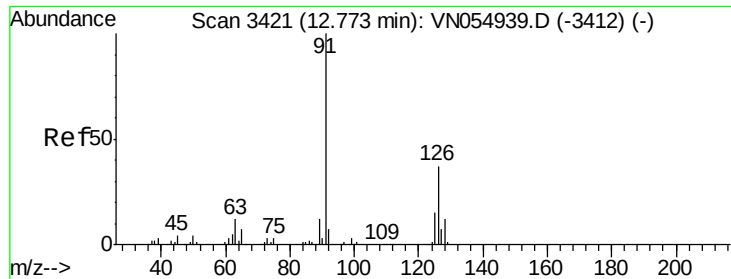
Ion Ratio Lower Upper

75 100

53 0.0 92.8 139.2#

89 89.8 36.7 55.1#





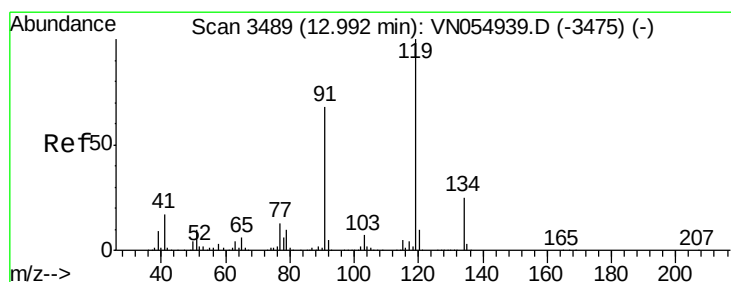
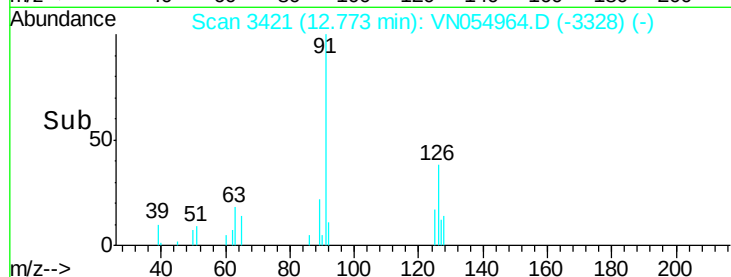
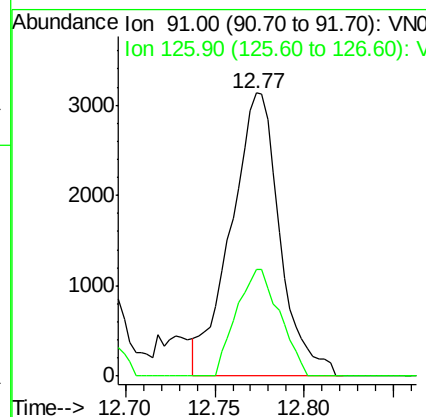
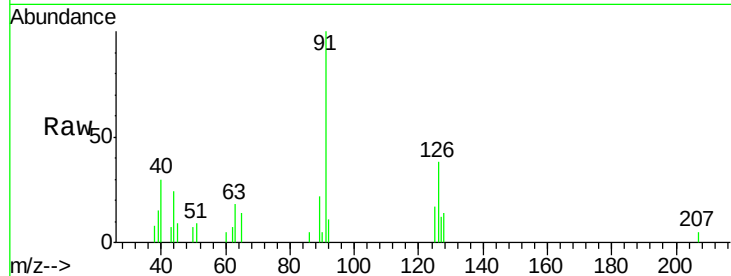
#82
4-Chlorotoluene
Concen: 0.556 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN054964.D
Acq: 5 Apr 2019 10:27

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

Tot Ion: 91 Resp: 5982
Ion Ratio Lower Upper
91 100
126 33.4 16.9 50.7

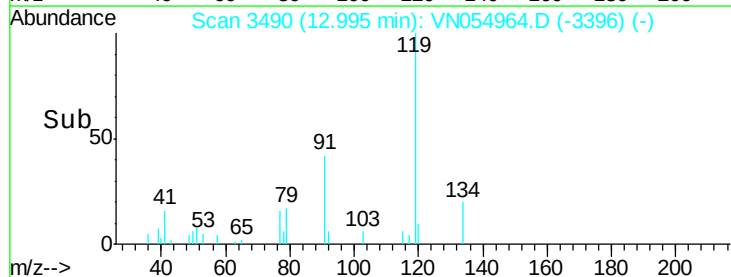
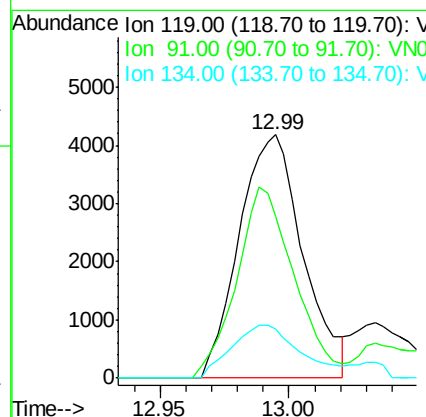
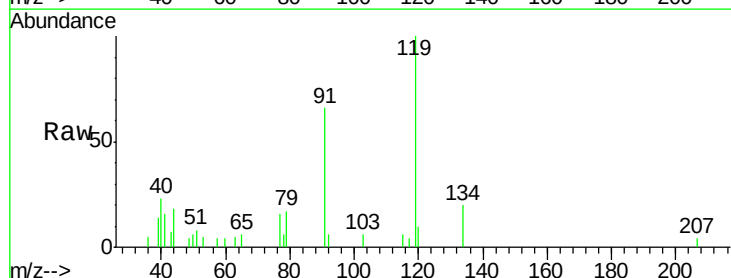
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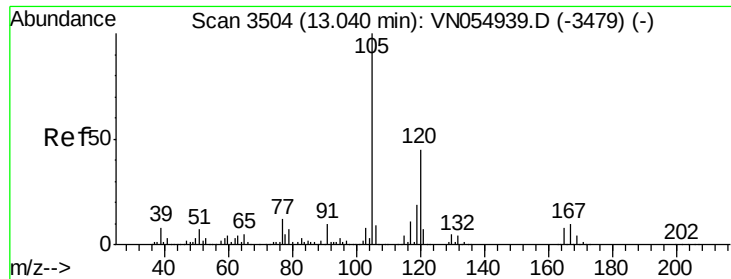
MMDadoda
4/8/2019 3:34:05 AM



#83
tert-Butylbenzene
Concen: 0.619 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN054964.D
Acq: 5 Apr 2019 10:27

Tgt Ion: 119 Resp: 7211
Ion Ratio Lower Upper
119 100
91 70.8 33.5 100.5
134 23.3 12.4 37.0





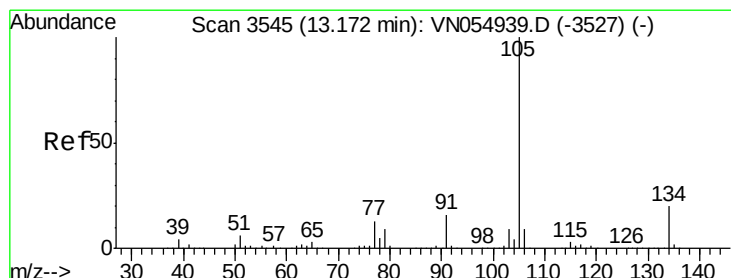
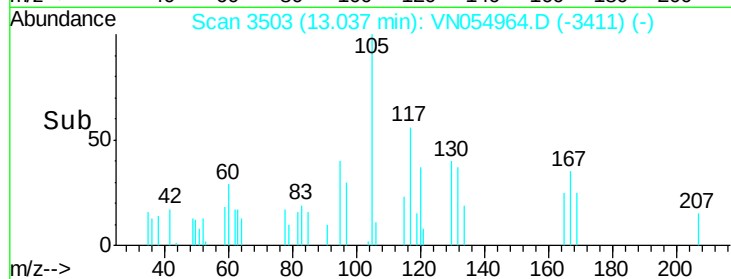
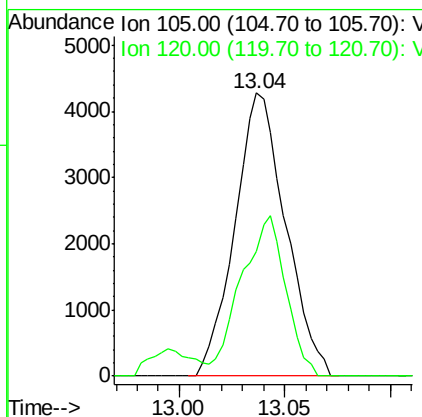
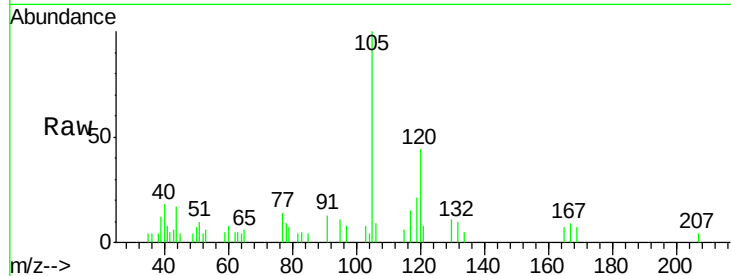
#84
 1,2,4-Trimethylbenzene
 Concen: 0.539 ug/l
 RT: 13.04 min Scan# 3503
 Delta R.T. -0.00 min
 Lab File: VN054964.D
 Acq: 5 Apr 2019 10:27

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

Tot Ion:105 Resp: 7141
 Ion Ratio Lower Upper
 105 100
 120 49.8 22.4 67.3

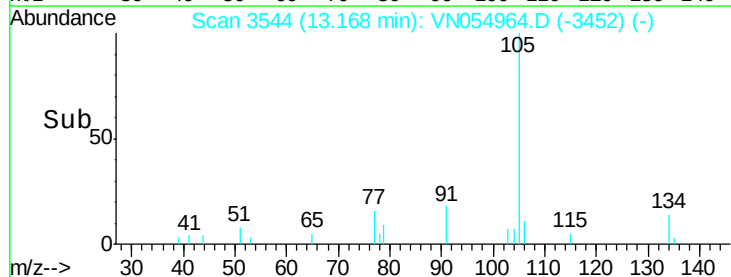
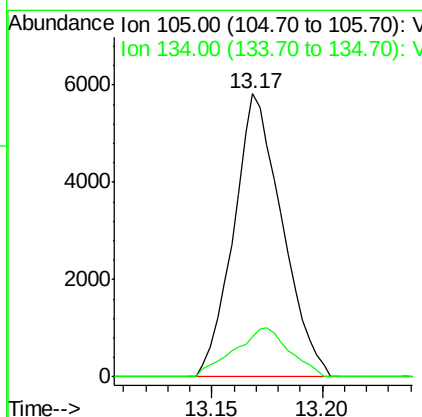
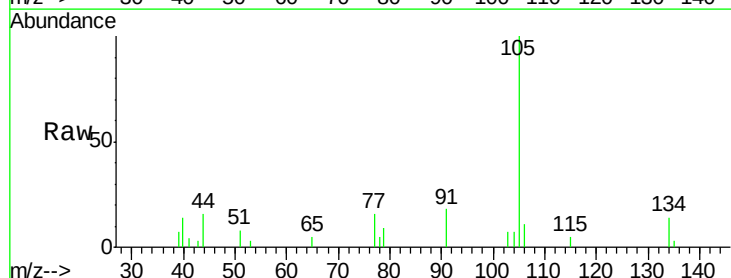
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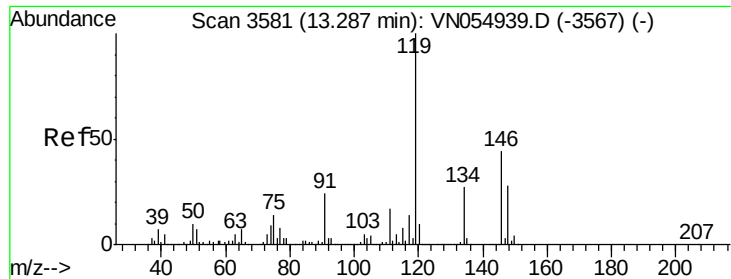
MMDadoda
 4/8/2019 3:34:05 AM



#85
 sec-Butylbenzene
 Concen: 0.589 ug/l
 RT: 13.17 min Scan# 3544
 Delta R.T. -0.00 min
 Lab File: VN054964.D
 Acq: 5 Apr 2019 10:27

Tgt Ion:105 Resp: 8872
 Ion Ratio Lower Upper
 105 100
 134 19.8 9.8 29.5





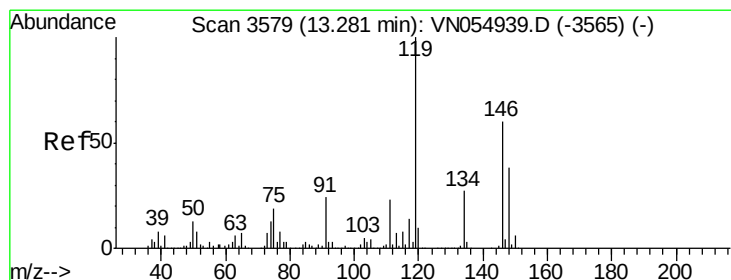
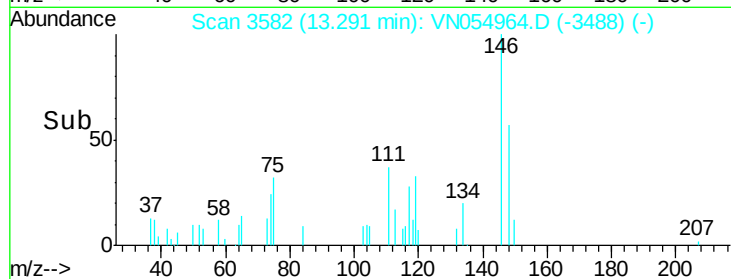
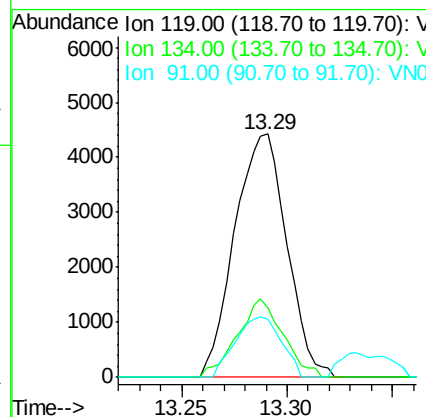
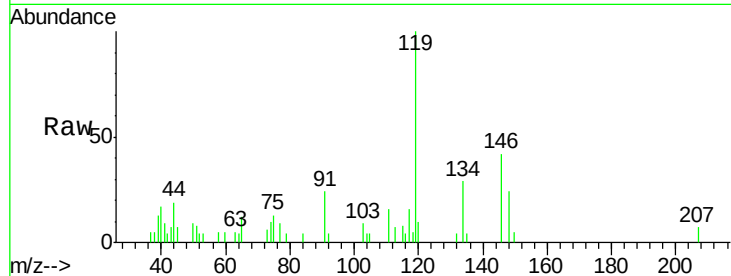
#86
 p-Isopropyltoluene
 Concen: 0.585 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN054964.D
 Acq: 5 Apr 2019 10:27

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

Tot Ion	Ratio	Resp	Lower	Upper
119	100	7585		
134	28.4		13.5	40.5
91	21.9		11.9	35.7

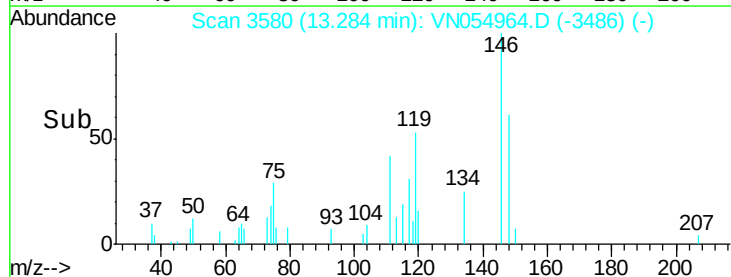
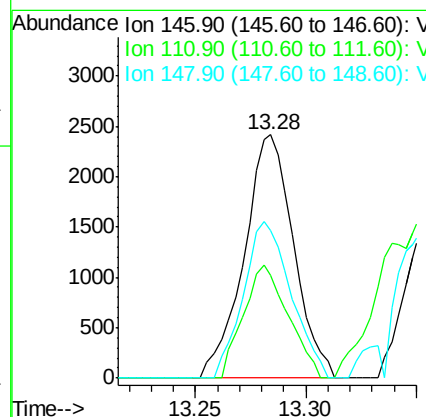
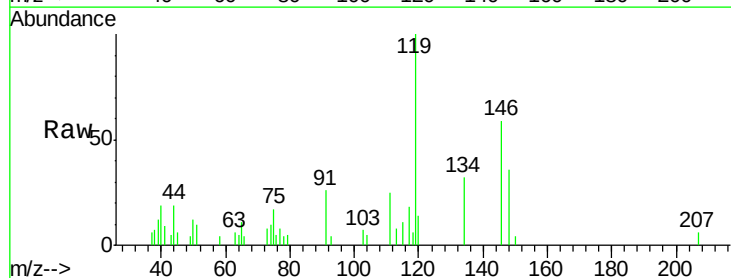
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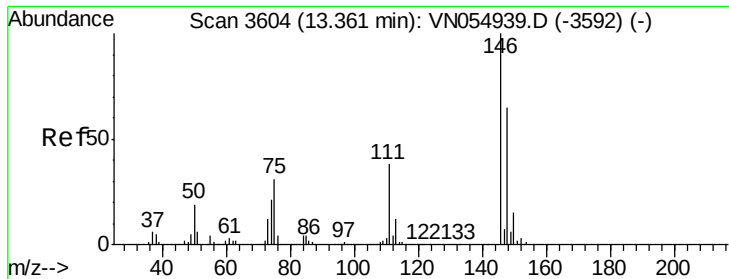
MMDadoda
 4/8/2019 3:34:05 AM



#87
 1,3-Dichlorobenzene
 Concen: 0.560 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN054964.D
 Acq: 5 Apr 2019 10:27

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	3761		
111	42.0		19.6	58.7
148	62.1		31.7	95.1





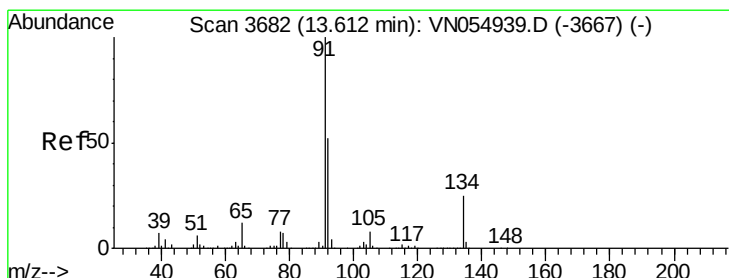
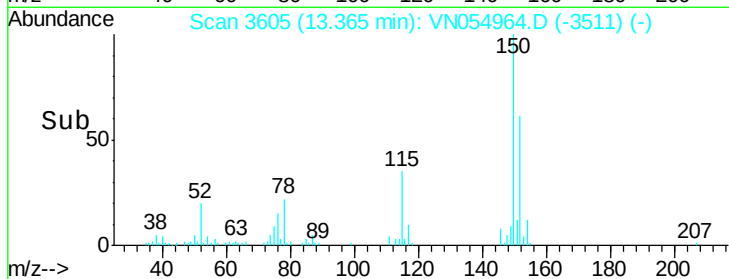
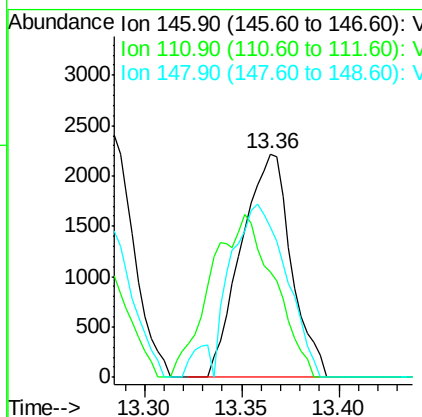
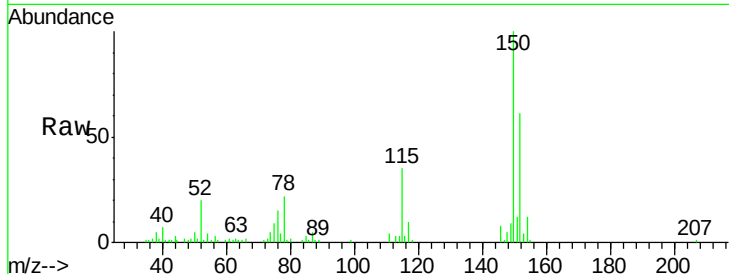
#88
 1,4-Dichlorobenzene
 Concen: 0.617 ug/l m
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN054964.D
 Acq: 5 Apr 2019 10:27

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.1	19.2	57.6
148	59.3	31.9	95.7

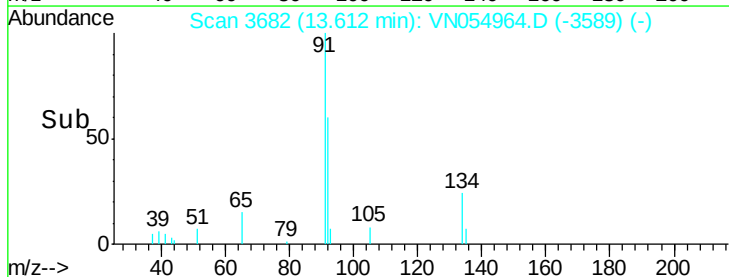
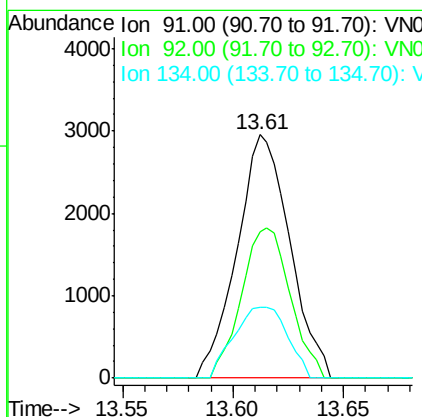
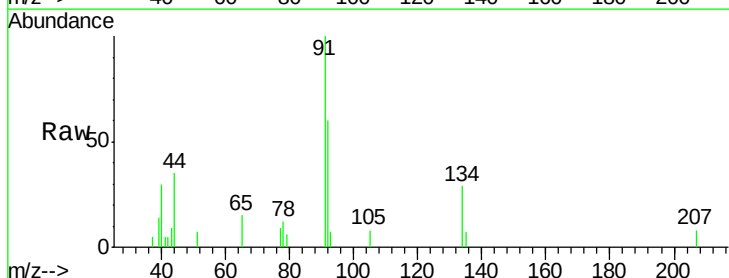
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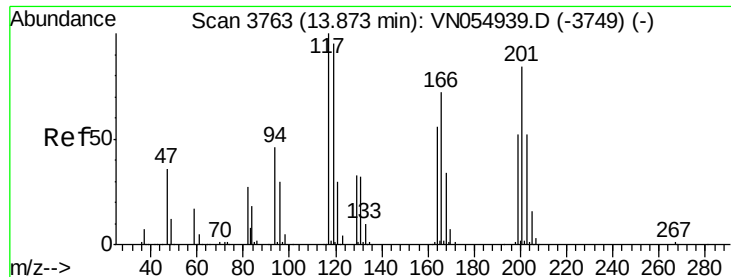
MMDadoda
 4/8/2019 3:34:05 AM



#89
 n-Butylbenzene
 Concen: 0.473 ug/l
 RT: 13.61 min Scan# 3682
 Delta R.T. 0.00 min
 Lab File: VN054964.D
 Acq: 5 Apr 2019 10:27

Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.9	26.1	78.2
134	29.5	12.6	37.8





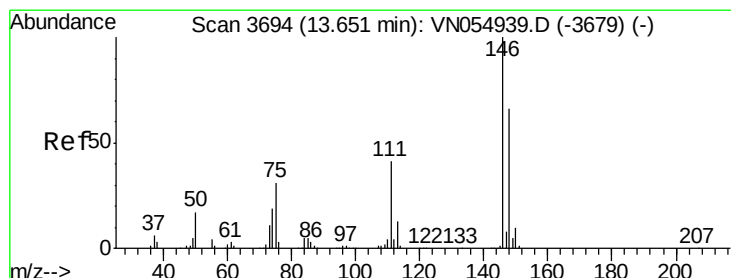
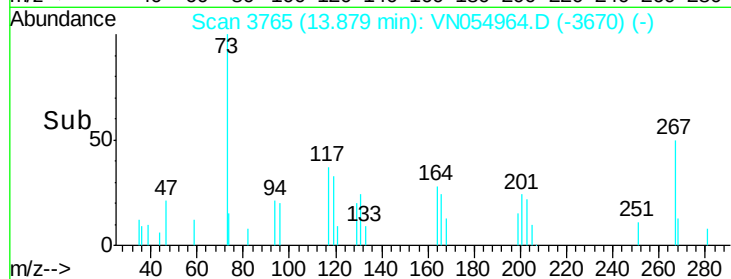
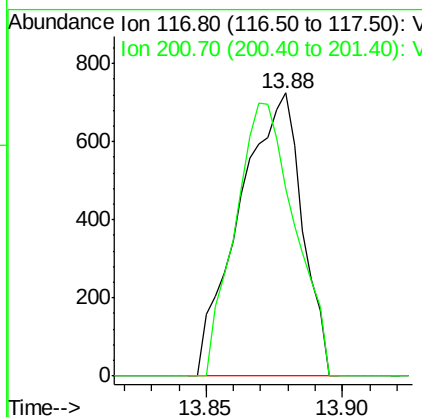
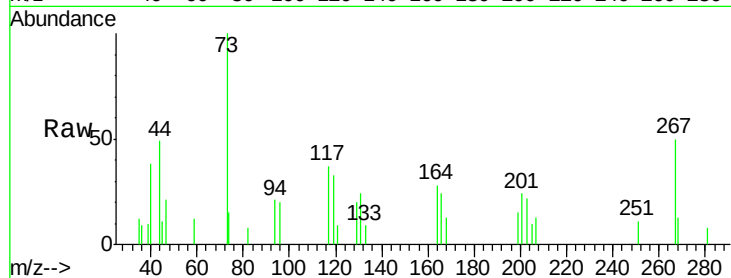
#90
Hexachloroethane
Concen: 0.529 ug/l
RT: 13.88 min Scan# 3765
Delta R.T. 0.01 min
Lab File: VN054964.D
Acq: 5 Apr 2019 10:27

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

Tot Ion:117 Resp: 1153
Ion Ratio Lower Upper
117 100
201 91.7 42.5 127.6

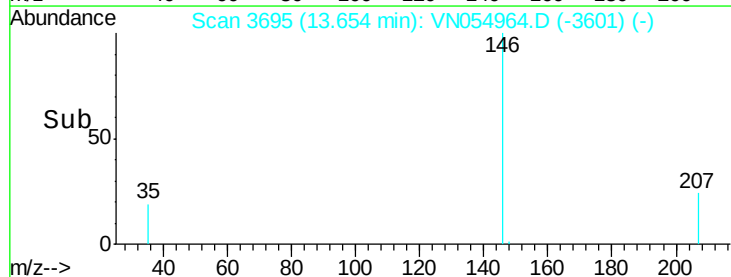
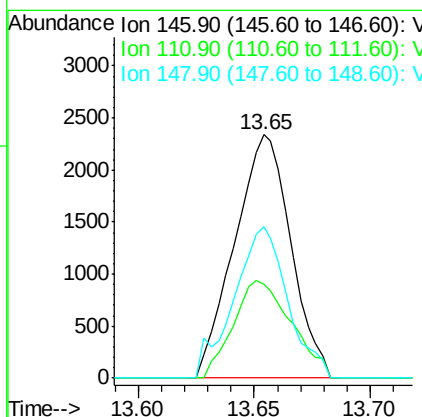
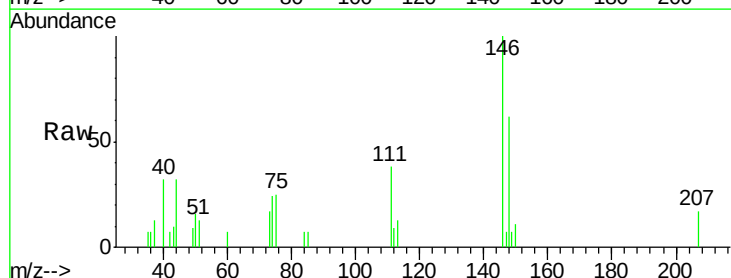
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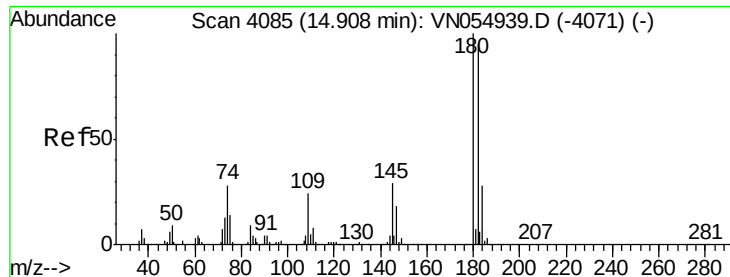
MMDadoda
4/8/2019 3:34:05 AM



#91
1,2-Dichlorobenzene
Concen: 0.597 ug/l
RT: 13.65 min Scan# 3695
Delta R.T. 0.00 min
Lab File: VN054964.D
Acq: 5 Apr 2019 10:27

Tgt Ion:146 Resp: 3932
Ion Ratio Lower Upper
146 100
111 41.2 20.2 60.5
148 59.6 32.1 96.5





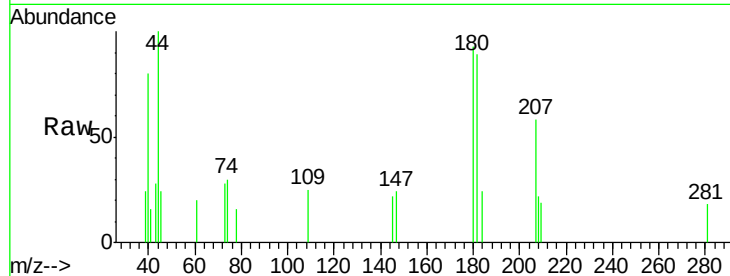
#93
 1,2,4-Trichlorobenzene
 Concen: 2.913 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN054964.D
 Acq: 5 Apr 2019 10:27

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

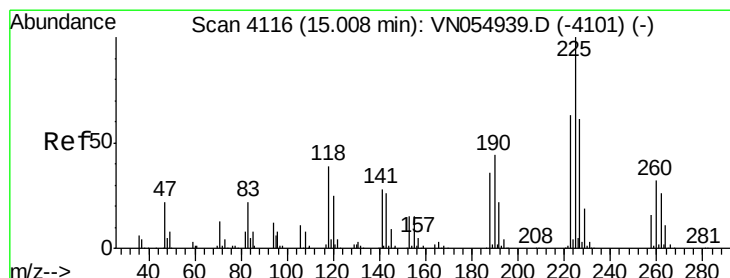
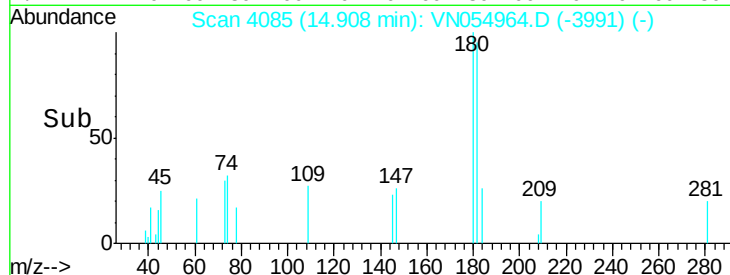
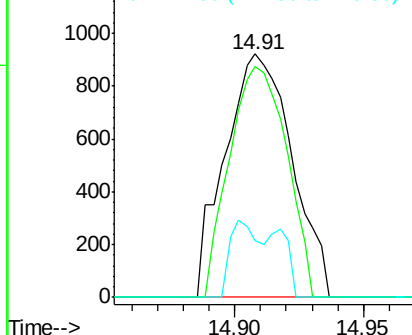
Tot Ion	Ratio	Lower	Upper
180	100		
182	81.1	47.5	142.6
145	13.9	14.6	43.8#

Manual Integrations
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 4/8/2019 3:34:05 AM

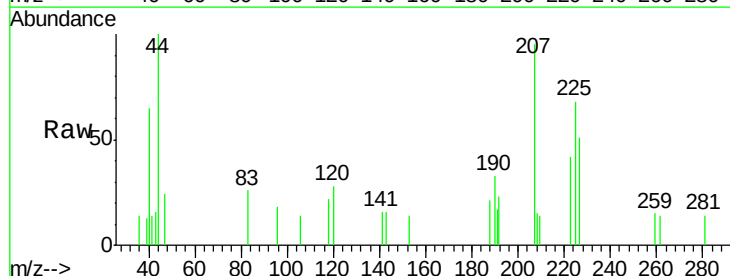


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

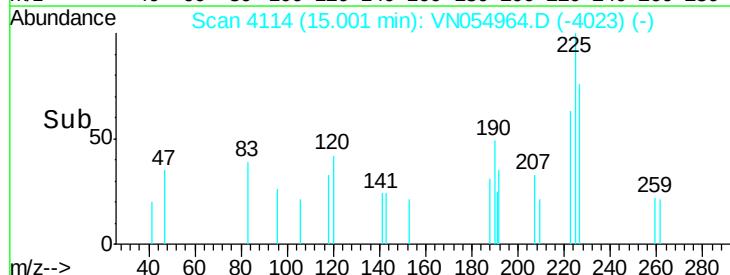
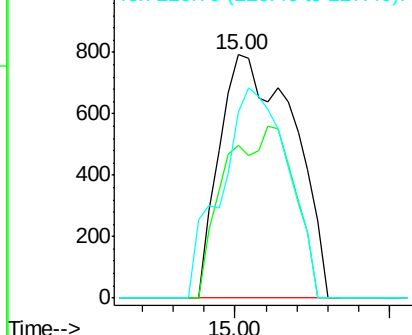


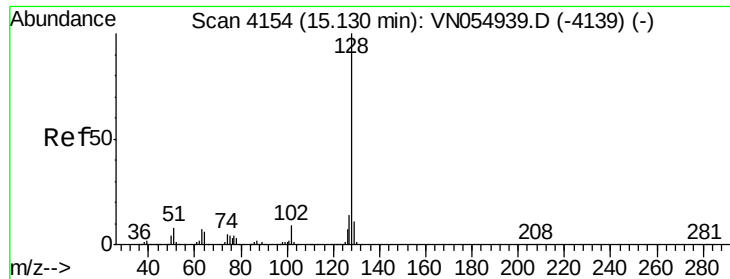
#94
 Hexachlorobutadiene
 Concen: 0.597 ug/l
 RT: 15.00 min Scan# 4114
 Delta R.T. -0.01 min
 Lab File: VN054964.D
 Acq: 5 Apr 2019 10:27

Tgt Ion	Ratio	Lower	Upper
225	100		
223	66.8	31.1	93.5
227	77.8	30.9	92.5



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





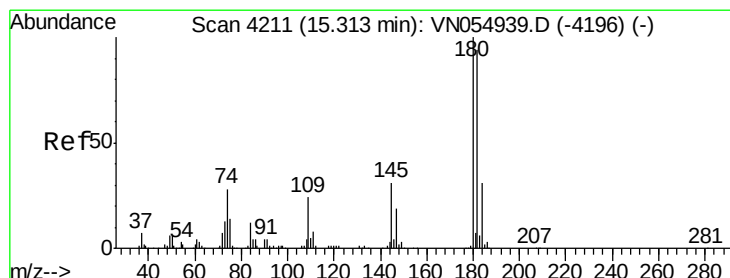
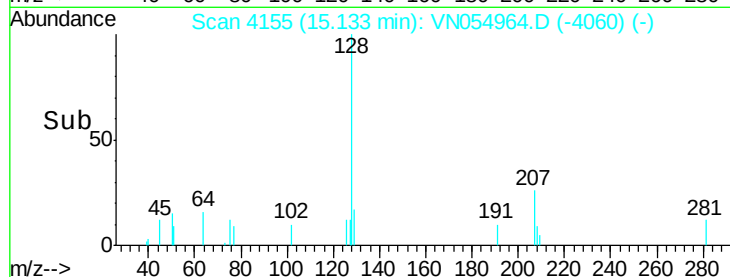
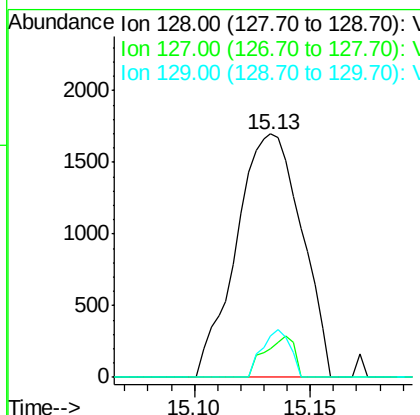
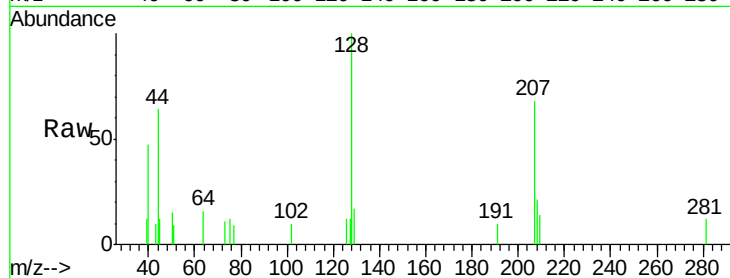
#95
Naphthalene
Concen: 3.287 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN054964.D
Acq: 5 Apr 2019 10:27

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

Tot Ion	Ratio	Lower	Upper
128	100		
127	7.5	10.6	16.0#
129	8.5	8.6	13.0#

Manual Integrations
APPROVED

MMDadoda
4/8/2019 3:34:05 AM



#96
1,2,3-Trichlorobenzene
Concen: 0.627 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN054964.D
Acq: 5 Apr 2019 10:27

Tgt Ion	Ratio	Lower	Upper
180	100		
182	48.8	47.5	142.5
145	33.3	15.6	46.8

