

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030619\
 Data File : VN054123.D
 Acq On : 6 Mar 2019 18:13
 Operator : JC/SP
 Sample : VN0306WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0306WBSD01

Manual Integrations
 APPROVED

MMDadoda
 3/7/2019 11:39:32 AM

Quant Time: Mar 07 07:06:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N030619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 07 06:25:49 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	653894	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1041093	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	899816	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	389257	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	391274	49.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.64%	
35) Dibromofluoromethane	7.59	113	348840	51.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.18%	
50) Toluene-d8	10.09	98	1289924	50.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.48%	
62) 4-Bromofluorobenzene	12.40	95	418802	50.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.20%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	117044	18.624	ug/l	96
3) Chloromethane	2.06	50	168180	20.498	ug/l	99
4) Vinyl Chloride	2.18	62	164796	19.355	ug/l	100
5) Bromomethane	2.57	94	100347	21.665	ug/l	96
6) Chloroethane	2.71	64	98438	19.074	ug/l	100
7) Trichlorofluoromethane	3.02	101	203819	19.593	ug/l	96
8) Diethyl Ether	3.41	74	79979	19.295	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.76	101	123745	18.285	ug/l	98
10) Methyl Iodide	3.95	142	147764	20.764	ug/l	100
11) Tert butyl alcohol	4.78	59	49386	103.370	ug/l	99
12) 1,1-Dichloroethene	3.74	96	120706	19.120	ug/l	99
13) Acrolein	3.61	56	39874	103.598	ug/l	99
14) Allyl chloride	4.32	41	225013	19.781	ug/l	99
15) Acrylonitrile	4.99	53	261560	96.993	ug/l	98
16) Acetone	3.82	43	216968	89.705	ug/l	99
17) Carbon Disulfide	4.05	76	361050	19.180	ug/l	99
18) Methyl Acetate	4.32	43	116355	20.625	ug/l	100
19) Methyl tert-butyl Ether	5.04	73	352838	19.914	ug/l	97
20) Methylene Chloride	4.55	84	144108	19.990	ug/l	97
21) trans-1,2-Dichloroethene	5.04	96	131503	18.974	ug/l	98
22) Diisopropyl ether	5.95	45	440086	19.856	ug/l	96
23) Vinyl Acetate	5.89	43	1561701	99.194	ug/l	100
24) 1,1-Dichloroethane	5.85	63	261147	19.693	ug/l	99
25) 2-Butanone	6.83	43	307827	95.656	ug/l	99
26) 2,2-Dichloropropane	6.82	77	185250	19.382	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	151628	19.620	ug/l	100
28) Bromochloromethane	7.19	49	140429	21.217	ug/l	98
29) Tetrahydrofuran	7.21	42	208239	98.725	ug/l	99
30) Chloroform	7.37	83	249322	19.622	ug/l	98
31) Cyclohexane	7.65	56	238325	19.516	ug/l	96
32) 1,1,1-Trichloroethane	7.57	97	204369	19.400	ug/l	99
36) 1,1-Dichloropropene	7.79	75	184844	18.916	ug/l	100
37) Ethyl Acetate	6.93	43	136187	19.368	ug/l	99
38) Carbon Tetrachloride	7.77	117	182387	19.551	ug/l	99

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	211895	18.789	ug/l	99
40) Benzene	8.04	78	580141	20.067	ug/l	100
41) Methacrylonitrile	7.17	41	71326	19.463	ug/l #	100
42) 1,2-Dichloroethane	8.12	62	181469	19.815	ug/l	99
43) Isopropyl Acetate	8.16	43	228405	20.526	ug/l #	86
44) Trichloroethene	8.84	130	151887	19.593	ug/l	99
45) 1,2-Dichloropropane	9.12	63	160867	20.173	ug/l	99
46) Dibromomethane	9.21	93	91102	20.013	ug/l	99
47) Bromodichloromethane	9.40	83	188425	19.774	ug/l	97
48) Methyl methacrylate	9.20	41	105326	19.588	ug/l	99
49) 1,4-Dioxane	9.20	88	29635	383.387	ug/l	99
51) 4-Methyl-2-Pentanone	9.99	43	633867	101.606	ug/l	98
52) Toluene	10.16	92	341619	19.945	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	185873	19.776	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	216757	19.513	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	130101	20.171	ug/l	99
56) Ethyl methacrylate	10.43	69	155301	20.511	ug/l	98
57) 1,3-Dichloropropane	10.71	76	220046	19.995	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	333477	96.224	ug/l	99
59) 2-Hexanone	10.75	43	393285	95.560	ug/l	99
60) Dibromochloromethane	10.90	129	136920	19.854	ug/l	99
61) 1,2-Dibromoethane	11.00	107	121560	19.807	ug/l	98
64) Tetrachloroethene	10.63	164	144309	19.542	ug/l	98
65) Chlorobenzene	11.43	112	361481	19.304	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	135555	20.223	ug/l	98
67) Ethyl Benzene	11.51	91	614586	19.614	ug/l	99
68) m/p-Xylenes	11.62	106	470847	39.818	ug/l	100
69) o-Xylene	11.95	106	229878	20.202	ug/l	100
70) Styrene	11.96	104	364448	20.177	ug/l	100
71) Bromoform	12.13	173	90378	19.591	ug/l #	99
73) Isopropylbenzene	12.25	105	606682	19.588	ug/l	100
74) N-amyl acetate	12.07	43	164092	20.004	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	151017	20.751	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	127180m	19.172	ug/l	
77) Bromobenzene	12.53	156	150083	20.495	ug/l	99
78) n-propylbenzene	12.59	91	690457	19.811	ug/l	99
79) 2-Chlorotoluene	12.68	91	420551	19.868	ug/l	98
80) 1,3,5-Trimethylbenzene	12.73	105	504766	20.048	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	37256	19.287	ug/l	98
82) 4-Chlorotoluene	12.77	91	409777	19.420	ug/l	100
83) tert-Butylbenzene	12.99	119	446843	20.040	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	504151	20.175	ug/l	99
85) sec-Butylbenzene	13.17	105	604339	19.973	ug/l	99
86) p-Isopropyltoluene	13.29	119	504912	19.849	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	256809	18.947	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	250585	18.628	ug/l	99
89) n-Butylbenzene	13.62	91	415580	19.350	ug/l	99
90) Hexachloroethane	13.87	117	90759	18.602	ug/l	100
91) 1,2-Dichlorobenzene	13.65	146	257285	20.424	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	23214	20.542	ug/l	95

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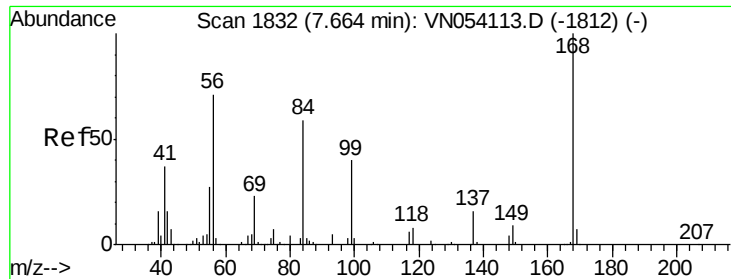
Manual Integrations
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MMDadoda
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Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	117435	18.232	ug/l	99
94) Hexachlorobutadiene	15.01	225	89597	20.777	ug/l	98
95) Naphthalene	15.13	128	232343	19.019	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	118251	19.828	ug/l	99

(#) = 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: VN054123.D

Acq: 6 Mar 2019 18:13

Instrument :

MSVOA_N

ClientSampleId :

VN0306WBSD01

Tot Ion:168 Resp: 653894

Ion Ratio Lower Upper

168 100

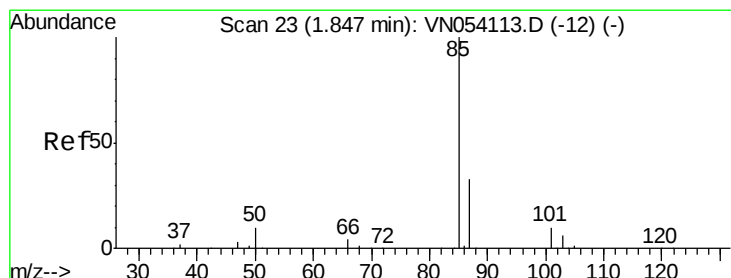
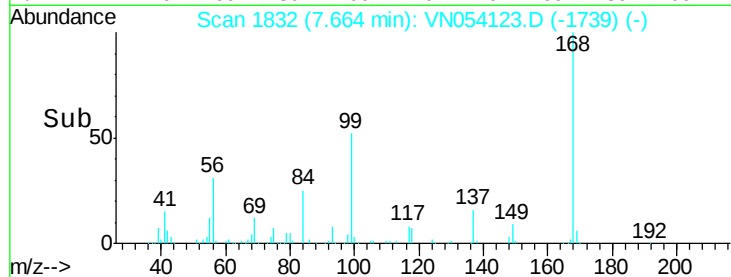
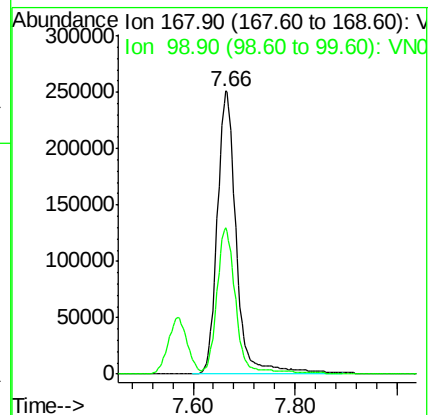
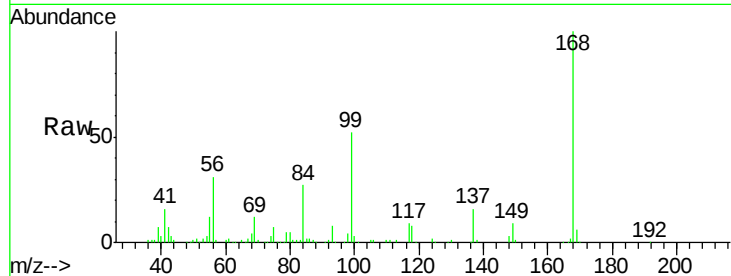
99 51.4 41.1 61.7

Manual Integrations

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3/7/2019 11:39:32 AM



#2

Dichlorodifluoromethane

Concen: 18.624 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN054123.D

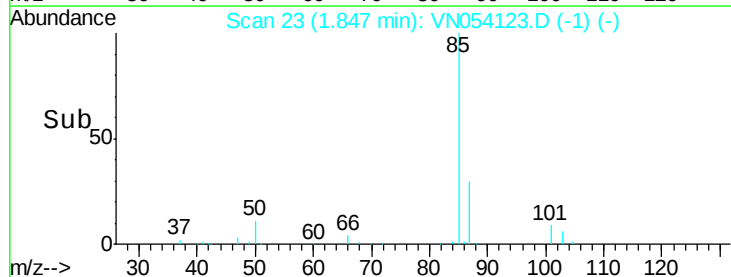
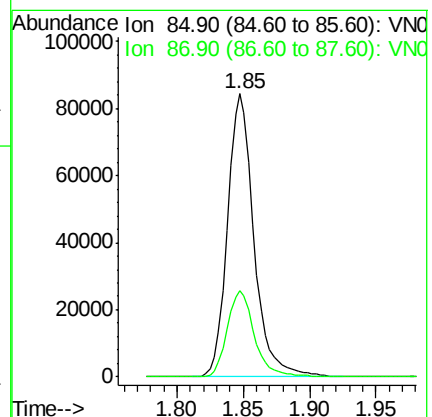
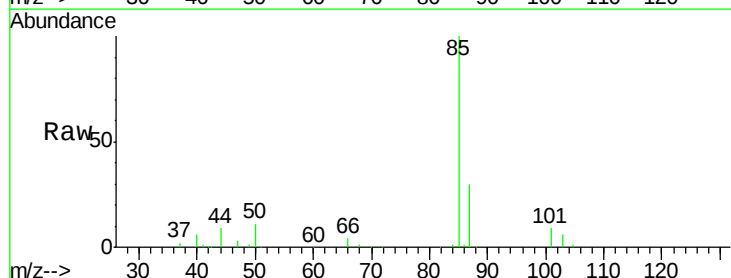
Acq: 6 Mar 2019 18:13

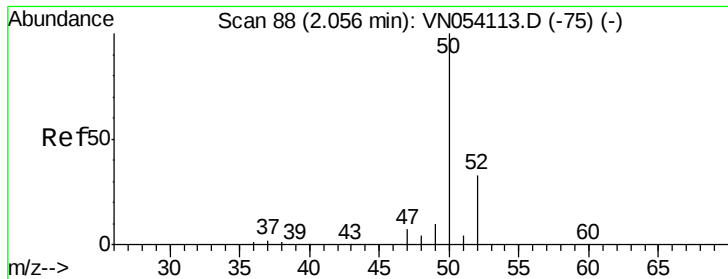
Tgt Ion: 85 Resp: 117044

Ion Ratio Lower Upper

85 100

87 30.4 16.4 49.2





#3

Chloromethane

Concen: 20.498 ug/l

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN054123.D

Acq: 6 Mar 2019 18:13

Instrument :

MSVOA_N

ClientSampleId :

VN0306WBSD01

Tot Ion: 50 Resp: 168180

Ion Ratio Lower Upper

50 100

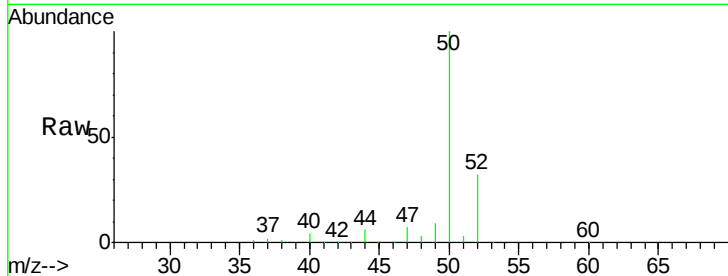
52 32.2 26.0 39.0

Manual Integrations

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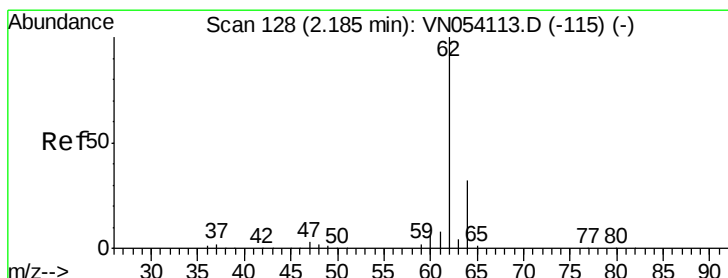
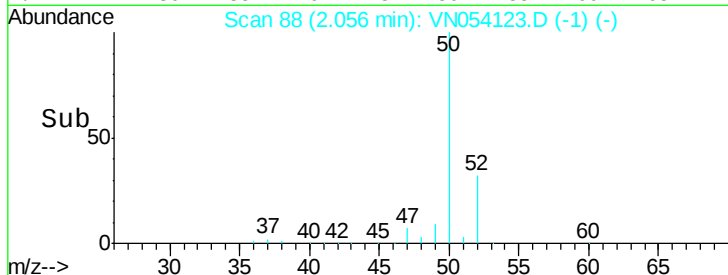
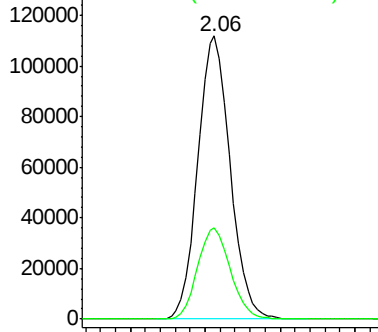
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Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 19.355 ug/l

RT: 2.18 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN054123.D

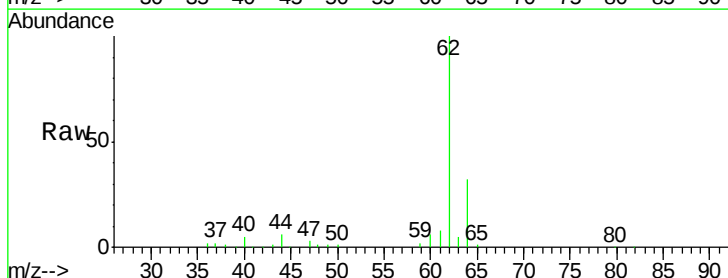
Acq: 6 Mar 2019 18:13

Tgt Ion: 62 Resp: 164796

Ion Ratio Lower Upper

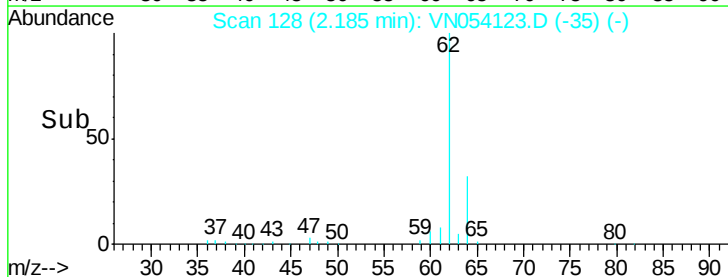
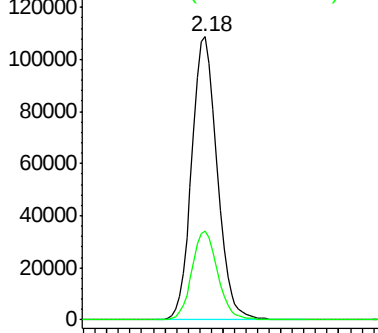
62 100

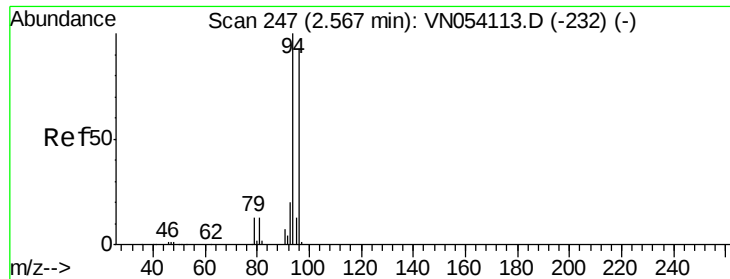
64 31.5 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 21.665 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.00 min

Lab File: VN054123.D

Acq: 6 Mar 2019 18:13

Instrument :

MSVOA_N

ClientSampleId :

VN0306WBSD01

Tot Ion: 94 Resp: 100347

Ion Ratio Lower Upper

94 100

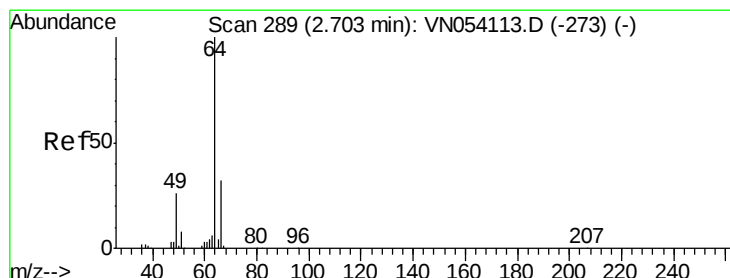
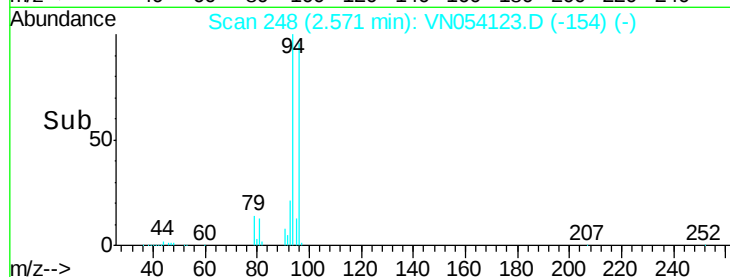
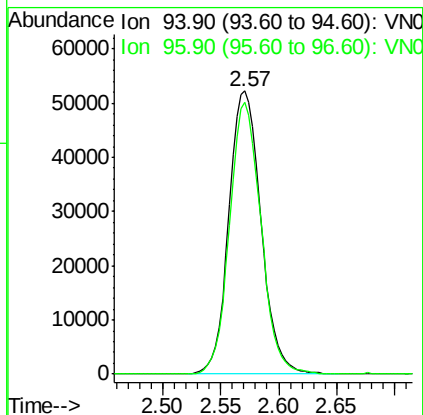
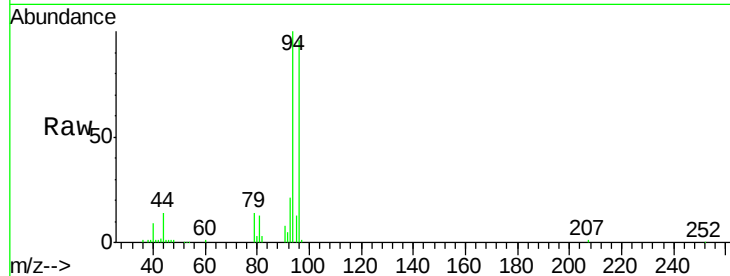
96 96.2 74.2 111.4

Manual Integrations

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#6

Chloroethane

Concen: 19.074 ug/l

RT: 2.71 min Scan# 290

Delta R.T. 0.00 min

Lab File: VN054123.D

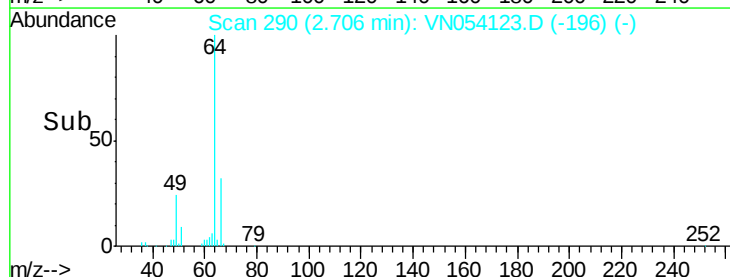
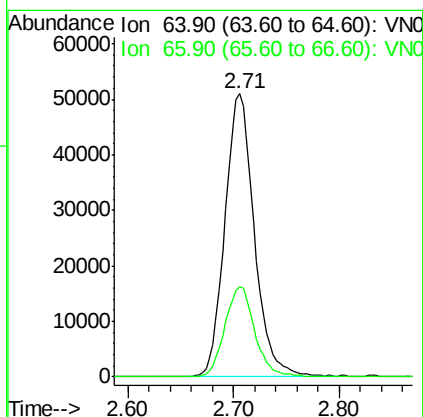
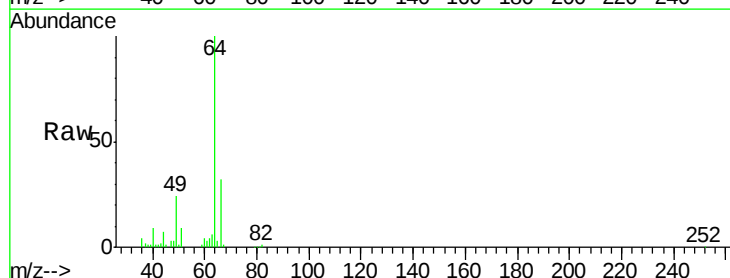
Acq: 6 Mar 2019 18:13

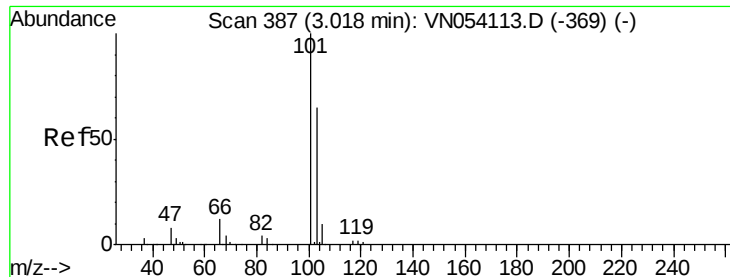
Tgt Ion: 64 Resp: 98438

Ion Ratio Lower Upper

64 100

66 32.0 25.4 38.2





#7

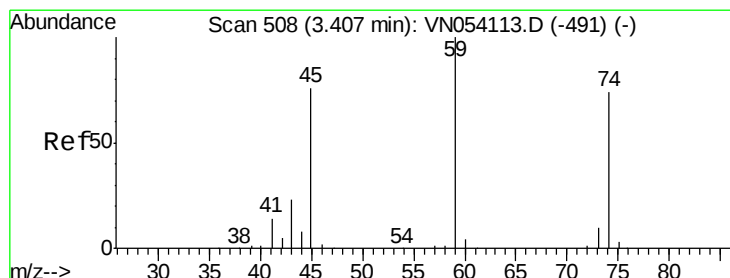
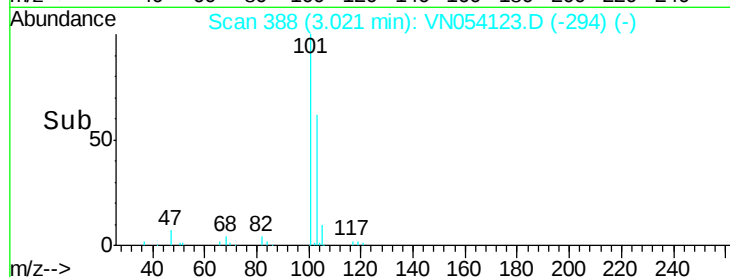
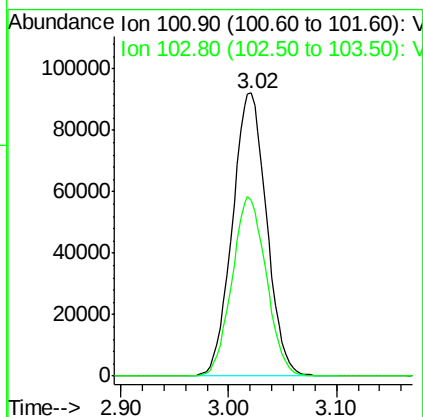
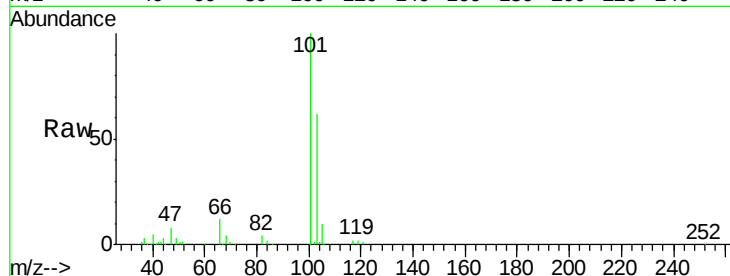
Trichlorofluoromethane
Concen: 19.593 ug/l
RT: 3.02 min Scan# 388
Delta R.T. 0.00 min
Lab File: VN054123.D
Acq: 6 Mar 2019 18:13

Instrument :
MSVOA_N
ClientSampled :
VN0306WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		203819		
103	61.9	52.0	78.0		

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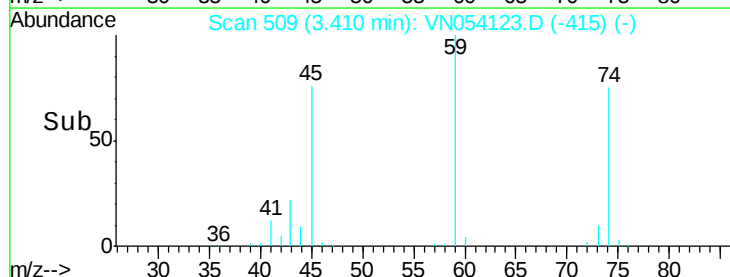
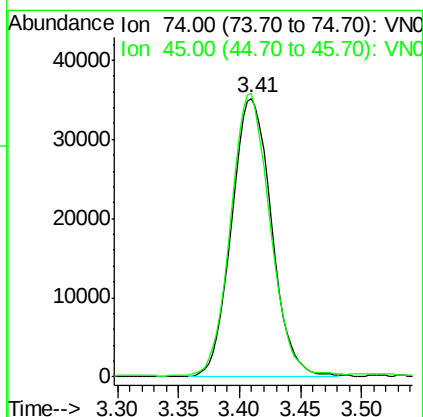
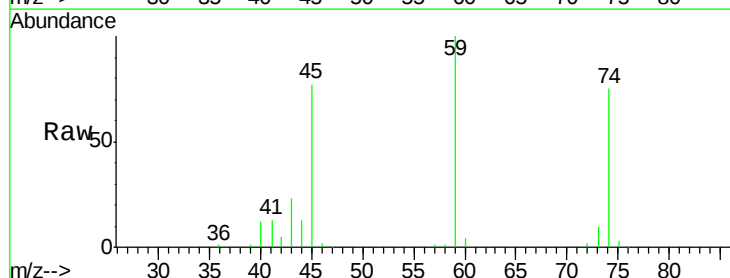
MMDadoda
3/7/2019 11:39:32 AM

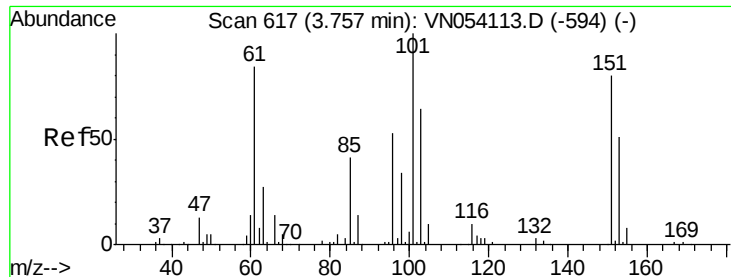


#8

Diethyl Ether
Concen: 19.295 ug/l
RT: 3.41 min Scan# 509
Delta R.T. 0.00 min
Lab File: VN054123.D
Acq: 6 Mar 2019 18:13

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		79979		
45	98.5	51.7	155.2		





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.285 ug/l

RT: 3.76 min Scan# 618

Delta R.T. 0.00 min

Lab File: VN054123.D

Acq: 6 Mar 2019 18:13

Instrument :

MSVOA_N

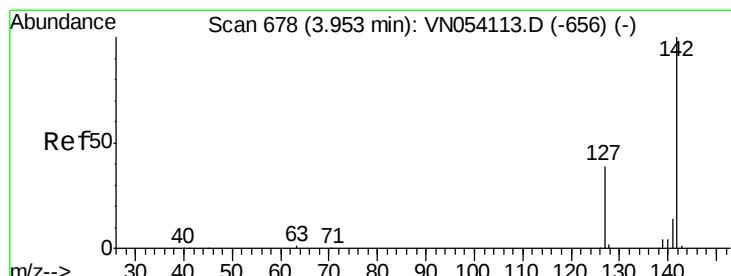
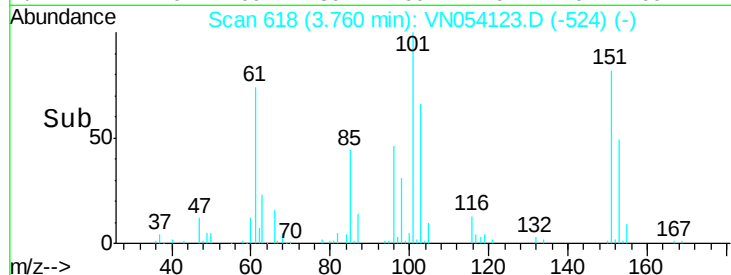
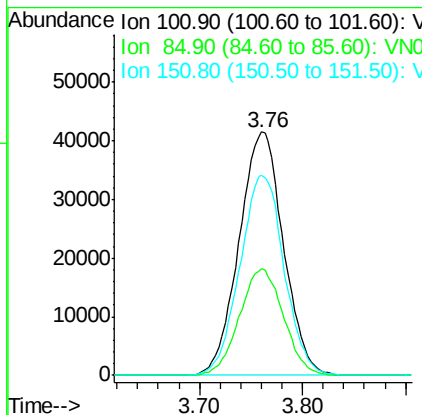
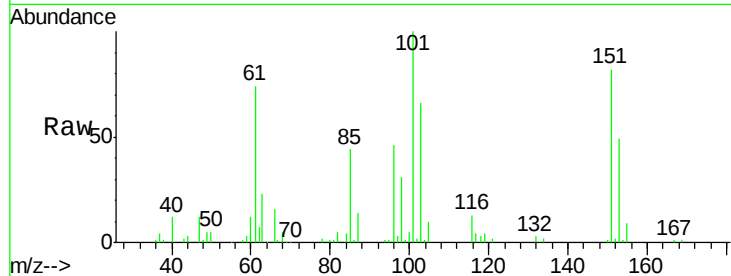
ClientSampleId :

VN0306WBSD01

Tot Ion:	101	Resp:	123745
Ion Ratio	Lower	Upper	
101	100		
85	43.3	33.1	49.7
151	82.0	64.3	96.5

Manual Integrations
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MMDadoda
3/7/2019 11:39:32 AM



#10

Methyl Iodide

Concen: 20.764 ug/l

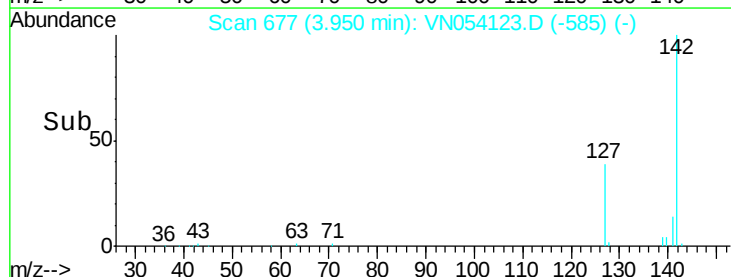
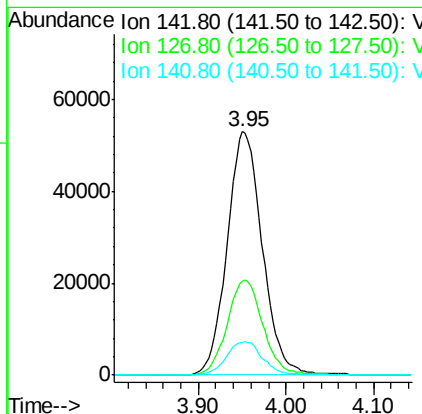
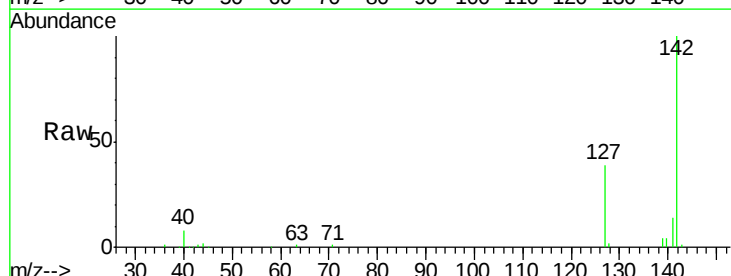
RT: 3.95 min Scan# 677

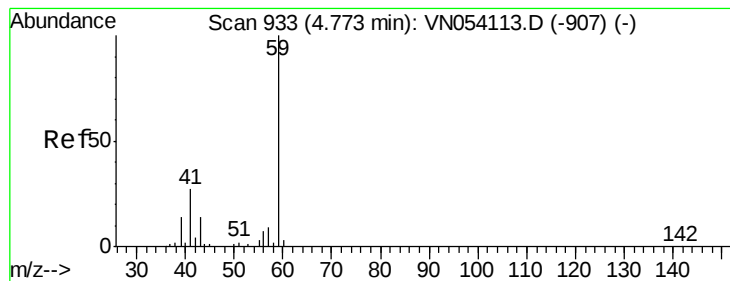
Delta R.T. -0.00 min

Lab File: VN054123.D

Acq: 6 Mar 2019 18:13

Tgt Ion:	142	Resp:	147764
Ion Ratio	Lower	Upper	
142	100		
127	39.7	31.9	47.9
141	14.1	11.4	17.0





#11

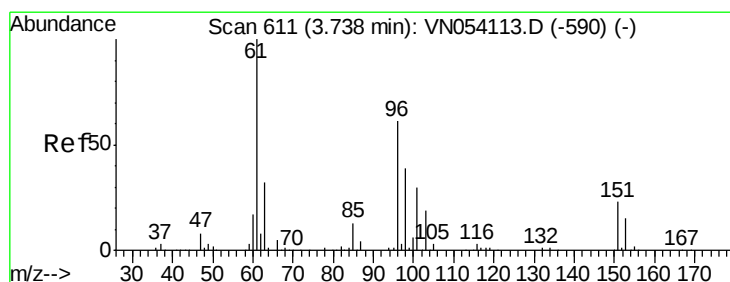
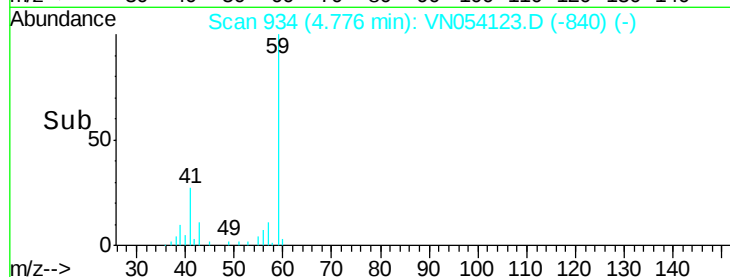
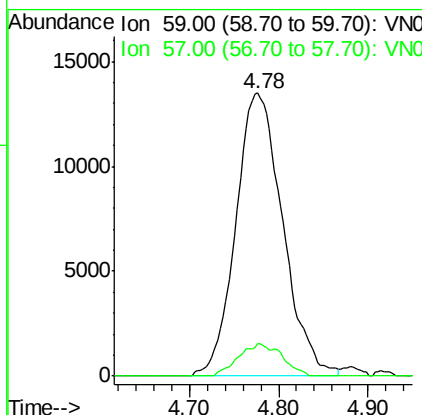
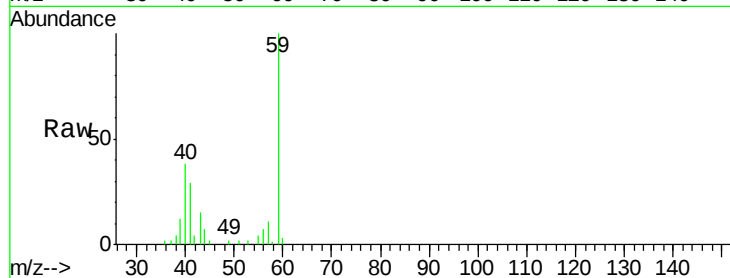
Tert butyl alcohol
Concen: 103.370 ug/l
RT: 4.78 min Scan# 934
Delta R.T. 0.00 min
Lab File: VN054123.D
Acq: 6 Mar 2019 18:13

Instrument :
MSVOA_N
ClientSampleId :
VN0306WBSD01

Tot Ion	59	Resp	49386
Ion Ratio	100	Lower	Upper
57	10.7	8.2	12.4

Manual Integrations
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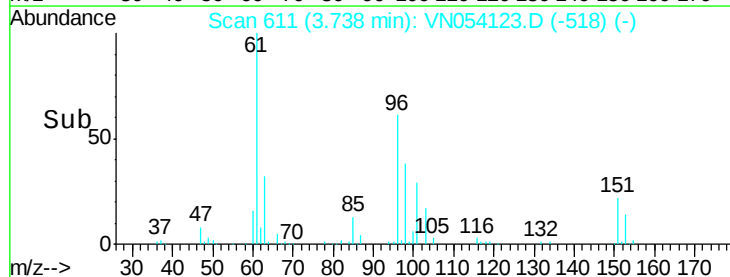
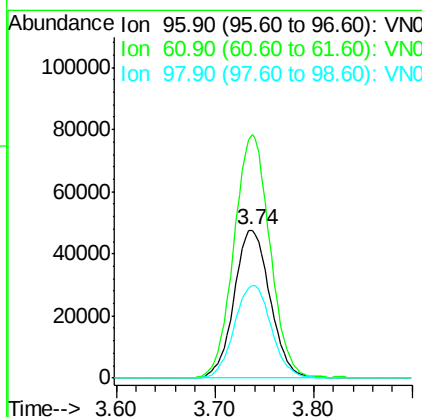
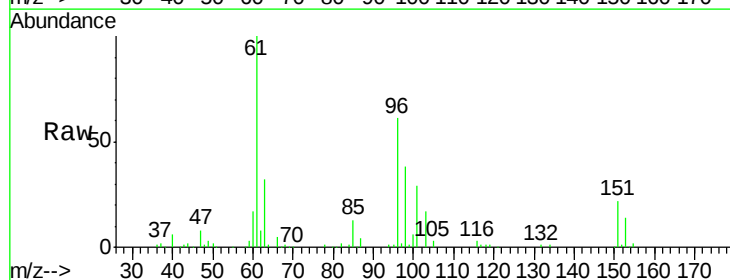
MMDadoda
3/7/2019 11:39:32 AM

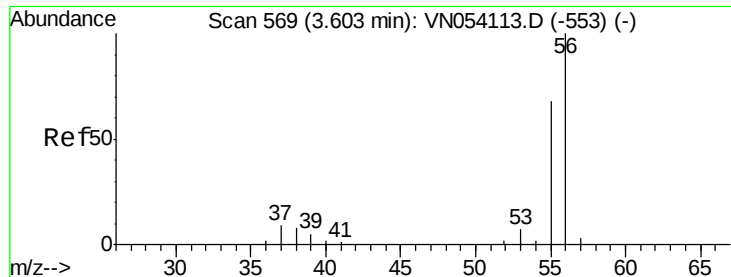


#12

1,1-Dichloroethene
Concen: 19.120 ug/l
RT: 3.74 min Scan# 611
Delta R.T. -0.00 min
Lab File: VN054123.D
Acq: 6 Mar 2019 18:13

Tgt Ion	96	Resp	120706
Ion Ratio	100	Lower	Upper
61	164.5	131.2	196.8
98	62.3	50.7	76.1





#13

Acrolein

Concen: 103.598 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN054123.D

Acq: 6 Mar 2019 18:13

Instrument :

MSVOA_N

ClientSampleId :

VN0306WBSD01

Tot Ion: 56 Resp: 39874

Ion Ratio Lower Upper

56 100

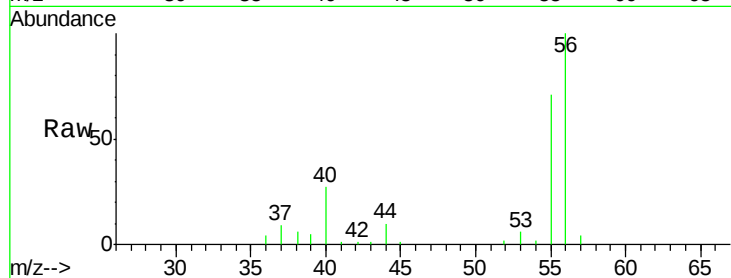
55 72.2 57.1 85.7

Manual Integrations

APPROVED

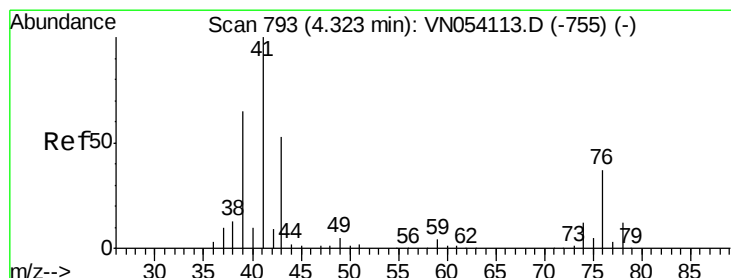
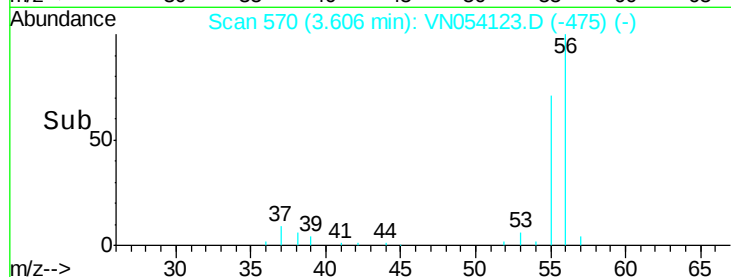
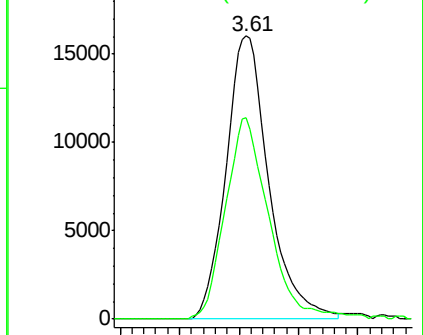
MMDadoda

3/7/2019 11:39:32 AM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 19.781 ug/l

RT: 4.32 min Scan# 793

Delta R.T. 0.00 min

Lab File: VN054123.D

Acq: 6 Mar 2019 18:13

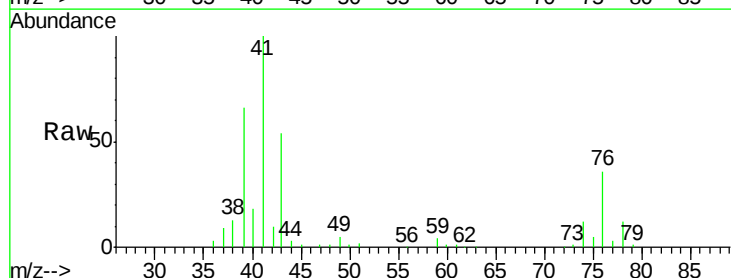
Tgt Ion: 41 Resp: 225013

Ion Ratio Lower Upper

41 100

39 62.5 49.3 73.9

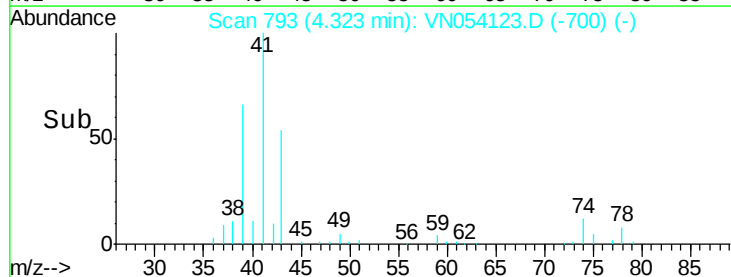
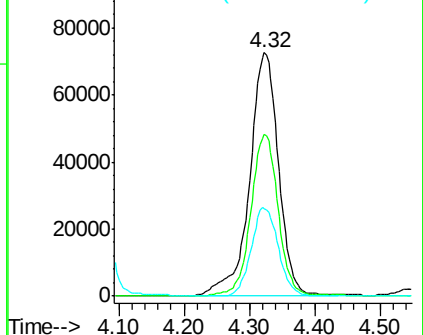
76 33.2 26.5 39.7

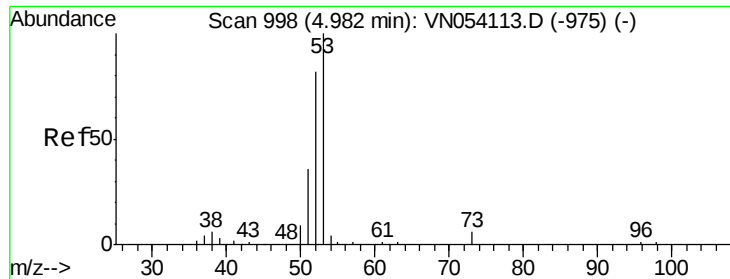


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 96.993 ug/l

RT: 4.99 min Scan# 999

Delta R.T. 0.00 min

Lab File: VN054123.D

Acq: 6 Mar 2019 18:13

Instrument :

MSVOA_N

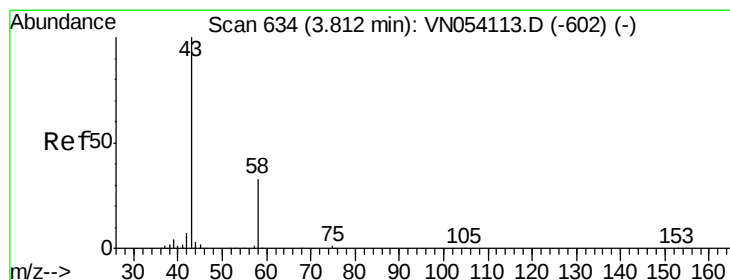
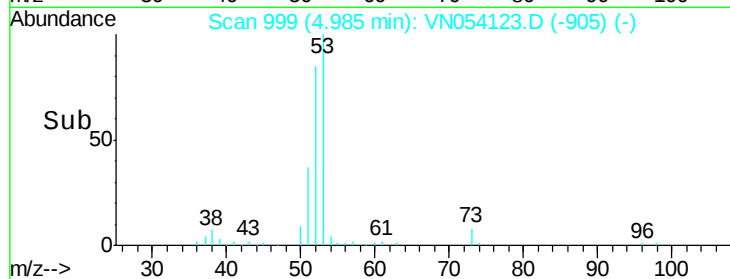
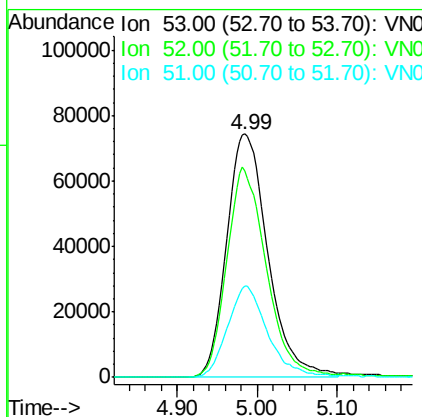
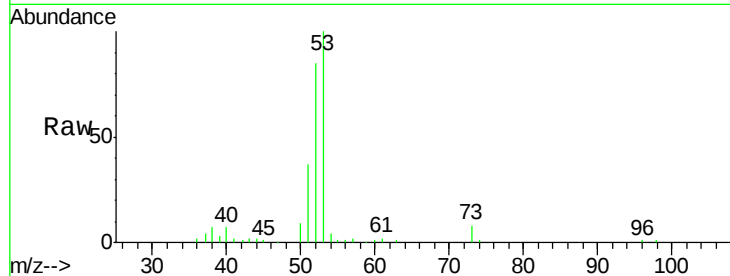
ClientSampled :

VN0306WBSD01

Tot Ion:	53	Resp:	261560
Ion Ratio	Lower	Upper	
53	100		
52	82.6	64.6	97.0
51	36.5	28.6	42.8

Manual Integrations
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MMDadoda
3/7/2019 11:39:32 AM



#16

Acetone

Concen: 89.705 ug/l

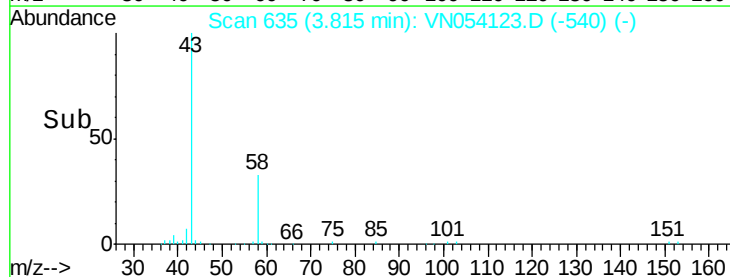
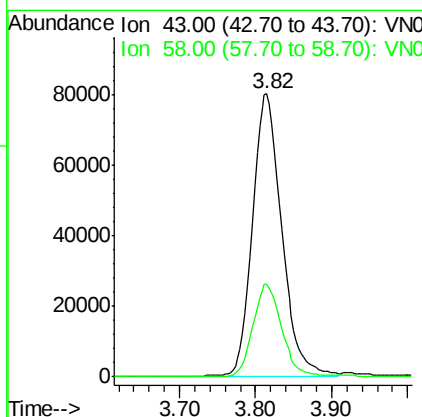
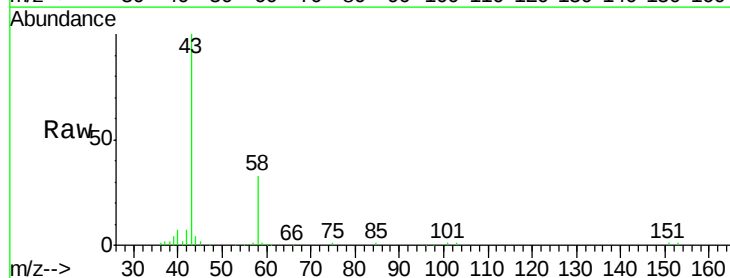
RT: 3.82 min Scan# 635

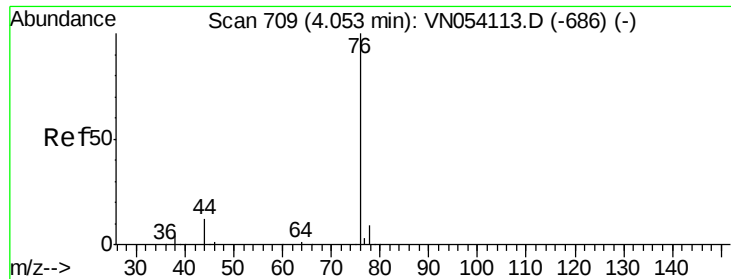
Delta R.T. 0.00 min

Lab File: VN054123.D

Acq: 6 Mar 2019 18:13

Tgt Ion:	43	Resp:	216968
Ion Ratio	Lower	Upper	
43	100		
58	32.5	26.5	39.7





#17

Carbon Disulfide

Concen: 19.180 ug/l

RT: 4.05 min Scan# 709

Delta R.T. 0.00 min

Lab File: VN054123.D

Acq: 6 Mar 2019 18:13

Instrument :

MSVOA_N

ClientSampleId :

VN0306WBSD01

Tot Ion: 76 Resp: 361050

Ion Ratio Lower Upper

76 100

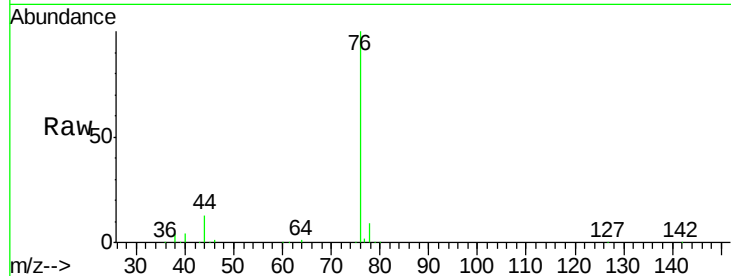
78 9.3 7.3 10.9

Manual Integrations

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3/7/2019 11:39:32 AM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.05

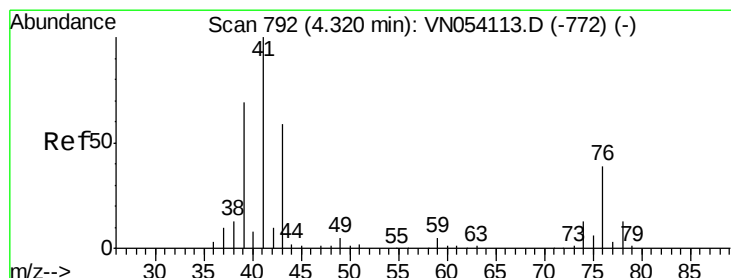
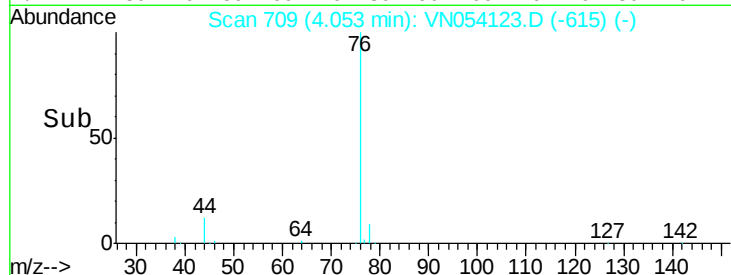
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 20.625 ug/l

RT: 4.32 min Scan# 793

Delta R.T. 0.00 min

Lab File: VN054123.D

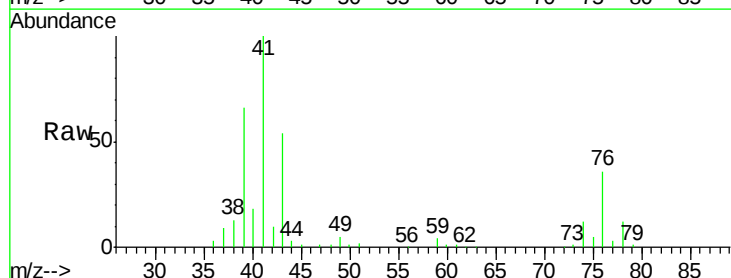
Acq: 6 Mar 2019 18:13

Tgt Ion: 43 Resp: 116355

Ion Ratio Lower Upper

43 100

74 22.6 18.2 27.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.32

40000

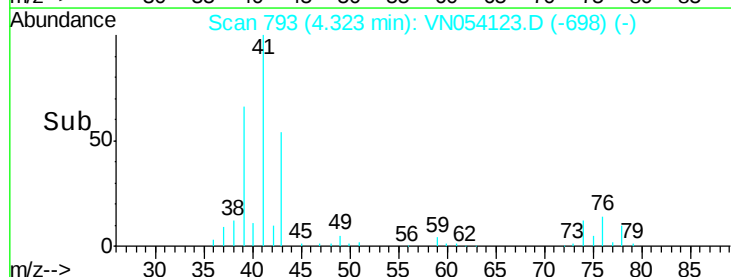
30000

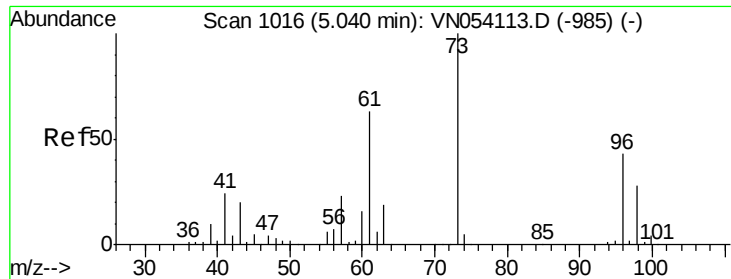
20000

10000

0

Time-->





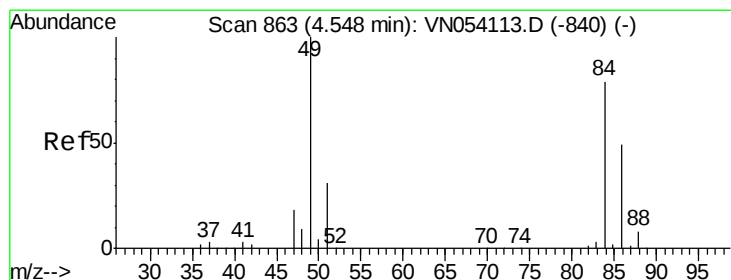
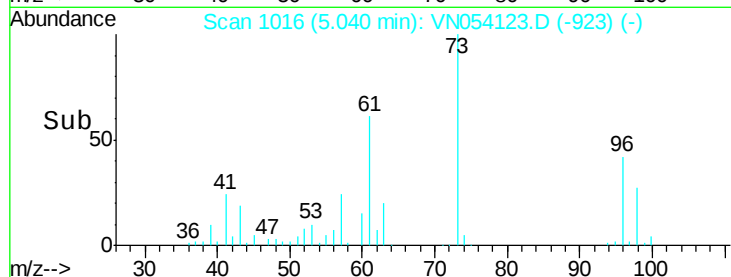
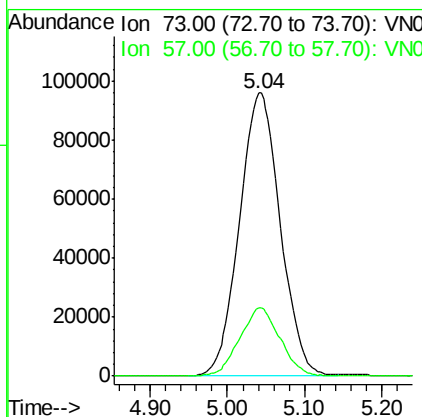
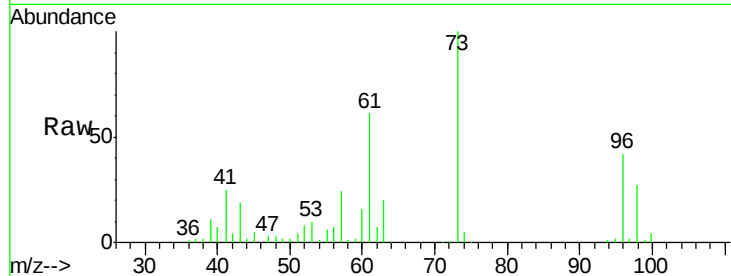
#19
Methvl tert-butvl Ether
Concen: 19.914 ug/l
RT: 5.04 min Scan# 1016
Delta R.T. -0.00 min
Lab File: VN054123.D
Acq: 6 Mar 2019 18:13

Instrument :
MSVOA_N
ClientSampleId :
VN0306WBSD01

Tot Ion: 73 Resp: 352838
Ion Ratio Lower Upper
73 100
57 24.0 18.2 27.4

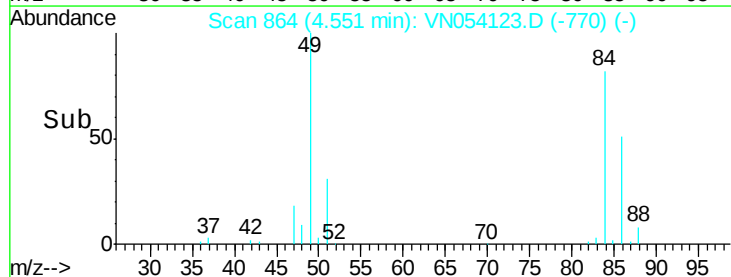
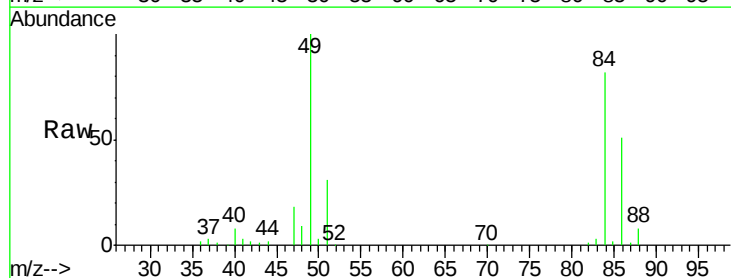
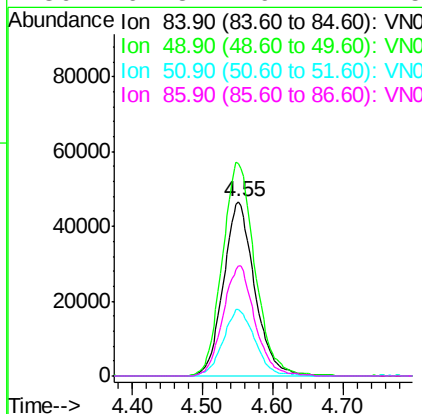
Manual Integrations
APPROVED

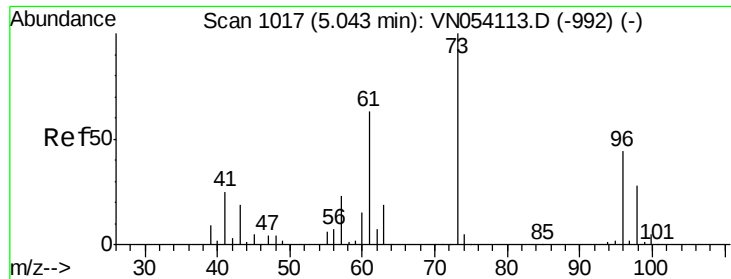
MMDadoda
3/7/2019 11:39:32 AM



#20
Methylene Chloride
Concen: 19.990 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN054123.D
Acq: 6 Mar 2019 18:13

Tgt Ion: 84 Resp: 144108
Ion Ratio Lower Upper
84 100
49 122.1 101.8 152.8
51 38.2 31.1 46.7
86 62.8 49.7 74.5





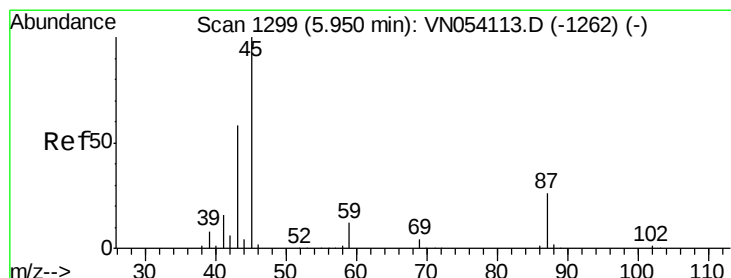
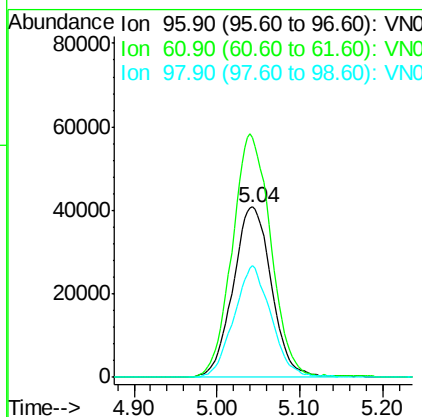
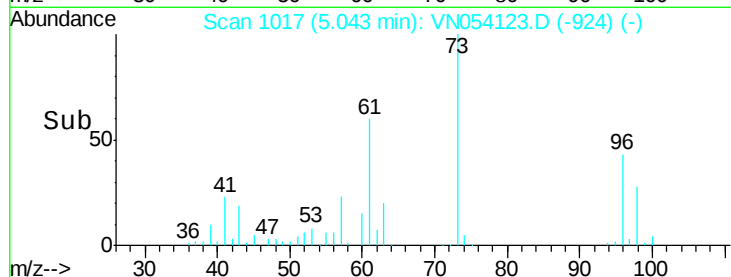
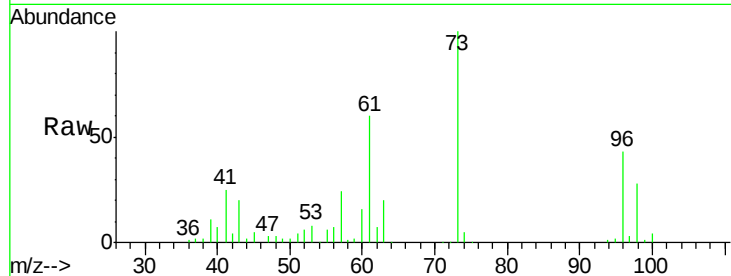
#21
trans-1,2-Dichloroethene
Concen: 18.974 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. 0.00 min
Lab File: VN054123.D
Acq: 6 Mar 2019 18:13

Instrument :
MSVOA_N
ClientSampled :
VN0306WBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	140.8	114.8	172.2
98	65.5	51.4	77.0

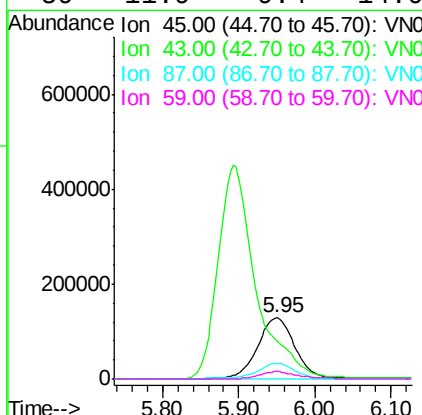
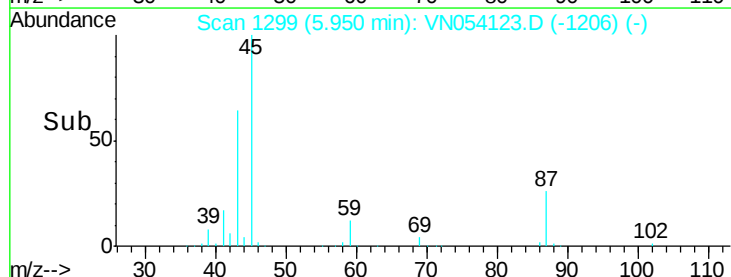
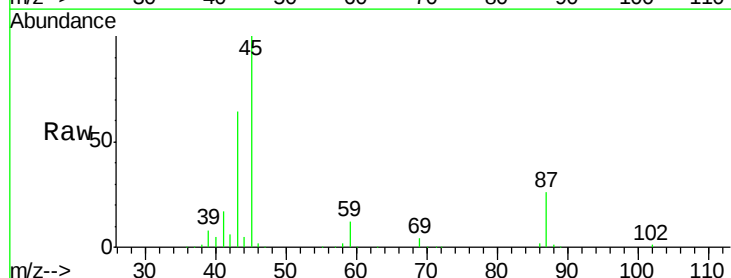
Manual Integrations
APPROVED

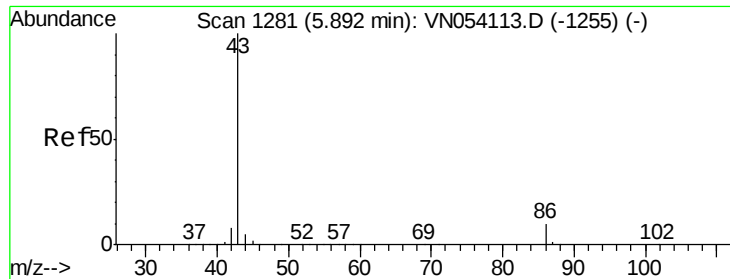
MMDadoda
3/7/2019 11:39:32 AM



#22
Diisopropyl ether
Concen: 19.856 ug/l
RT: 5.95 min Scan# 1299
Delta R.T. 0.00 min
Lab File: VN054123.D
Acq: 6 Mar 2019 18:13

Tgt Ion	Ratio	Lower	Upper
45	100		
43	62.1	46.2	69.4
87	25.3	20.6	31.0
59	11.9	9.4	14.0





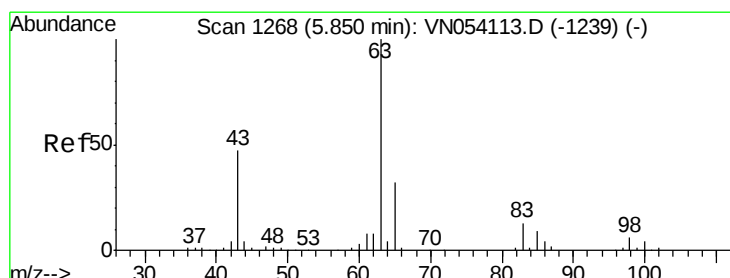
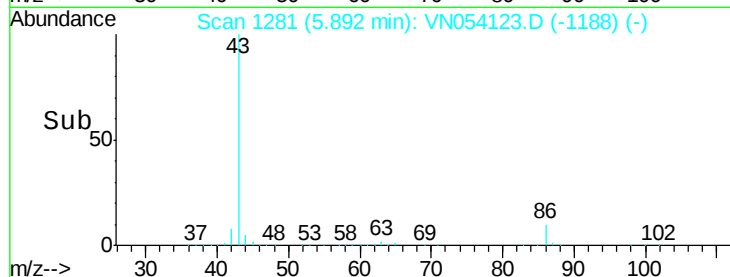
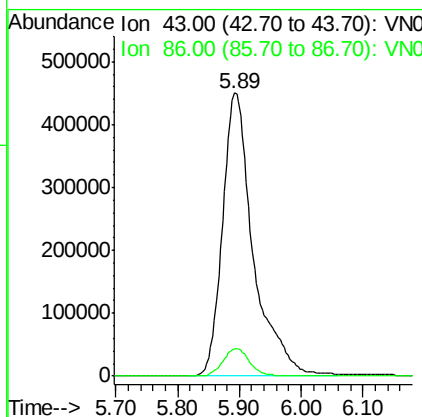
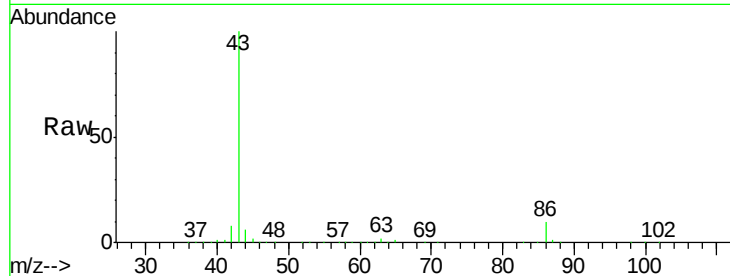
#23
 Vinyl Acetate
 Concen: 99.194 ug/l
 RT: 5.89 min Scan# 1281
 Delta R.T. 0.00 min
 Lab File: VN054123.D
 Acq: 6 Mar 2019 18:13

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0306WBSD01

Tot Ion: 43 Resp: 1561701
 Ion Ratio Lower Upper
 43 100
 86 9.7 7.8 11.8

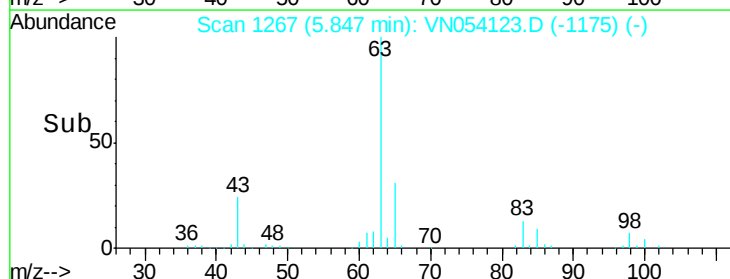
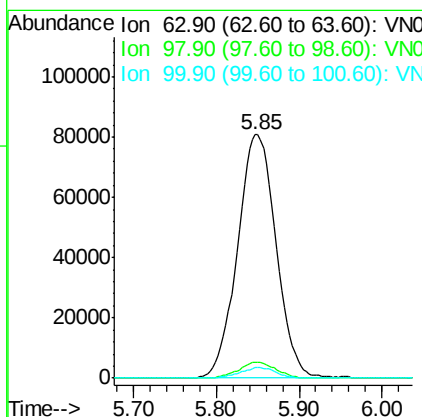
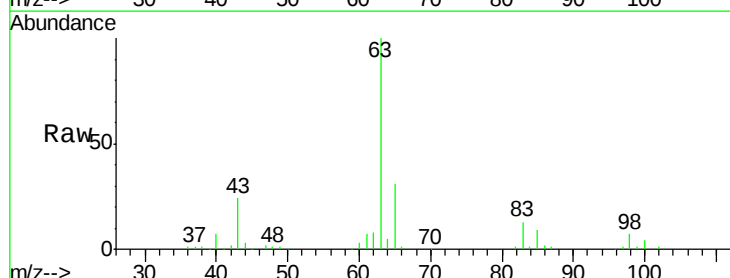
Manual Integrations
 APPROVED

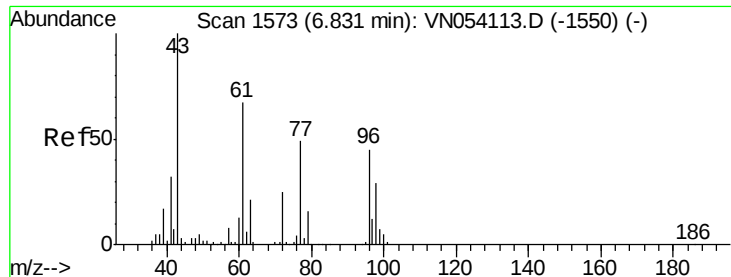
MMDadoda
 3/7/2019 11:39:32 AM



#24
 1,1-Dichloroethane
 Concen: 19.693 ug/l
 RT: 5.85 min Scan# 1267
 Delta R.T. -0.00 min
 Lab File: VN054123.D
 Acq: 6 Mar 2019 18:13

Tgt Ion: 63 Resp: 261147
 Ion Ratio Lower Upper
 63 100
 98 6.5 3.1 9.4
 100 4.4 2.0 6.0





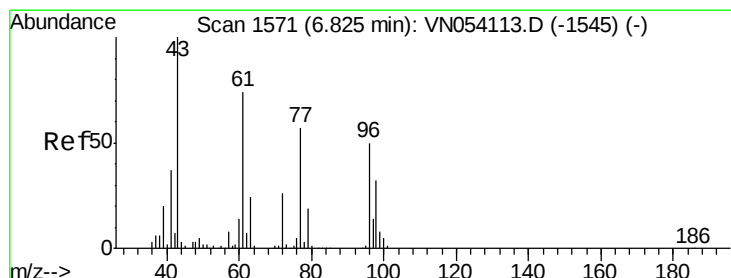
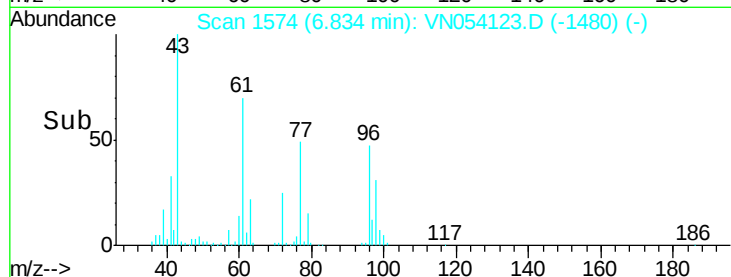
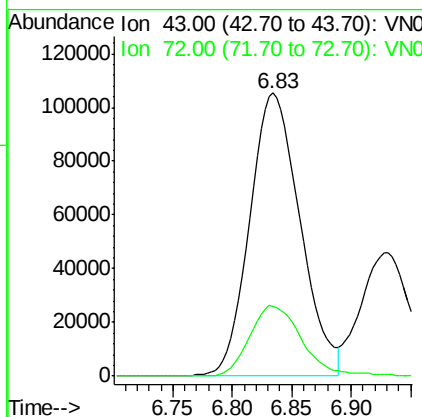
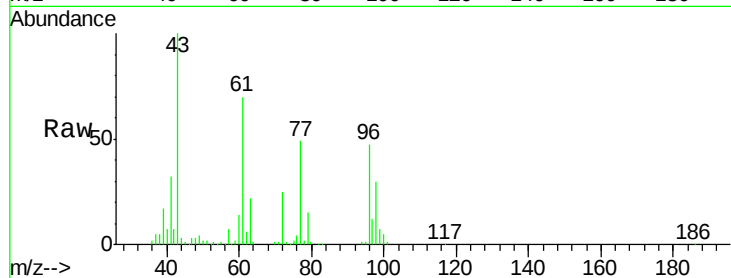
#25
2-Butanone
Concen: 95.656 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VN054123.D
Acq: 6 Mar 2019 18:13

Instrument :
MSVOA_N
ClientSampleId :
VN0306WBSD01

Tot Ion: 43 Resp: 307827
Ion Ratio Lower Upper
43 100
72 24.8 20.2 30.2

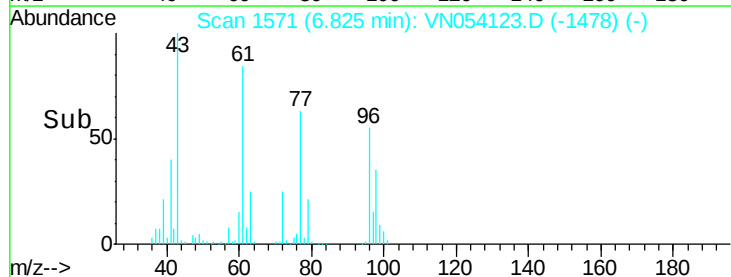
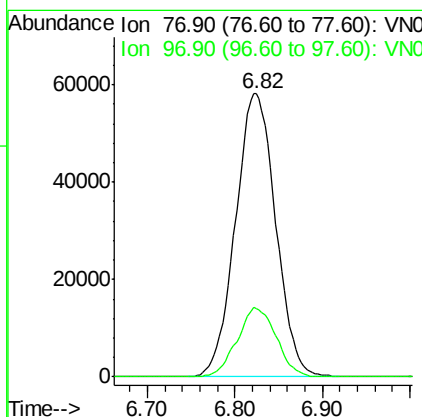
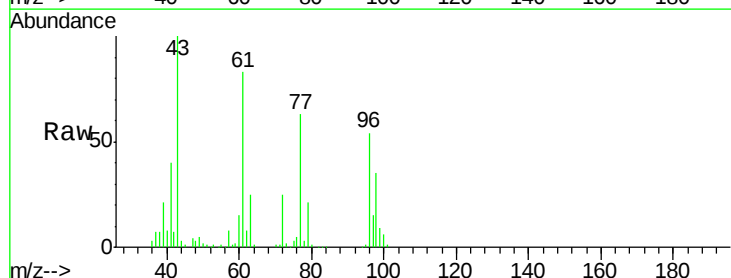
Manual Integrations
APPROVED

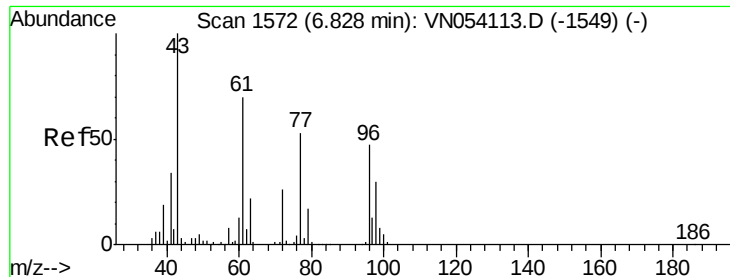
MMDadoda
3/7/2019 11:39:32 AM



#26
2,2-Dichloropropane
Concen: 19.382 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. 0.00 min
Lab File: VN054123.D
Acq: 6 Mar 2019 18:13

Tgt Ion: 77 Resp: 185250
Ion Ratio Lower Upper
77 100
97 23.7 11.8 35.3





#27

cis-1,2-Dichloroethene

Concen: 19.620 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN054123.D

Acq: 6 Mar 2019 18:13

Instrument :

MSVOA_N

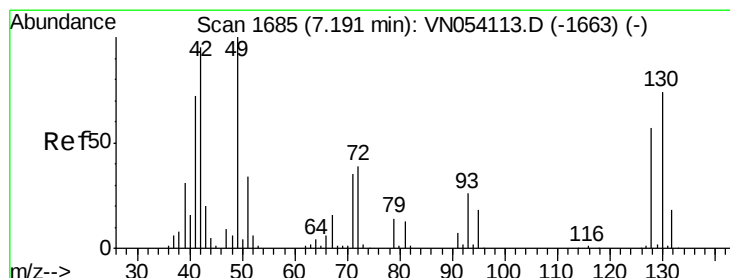
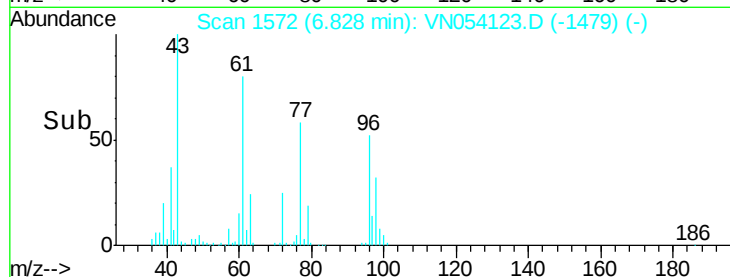
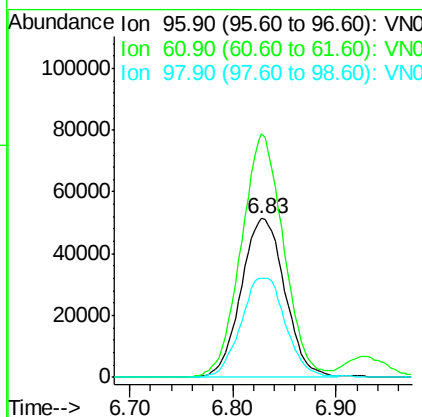
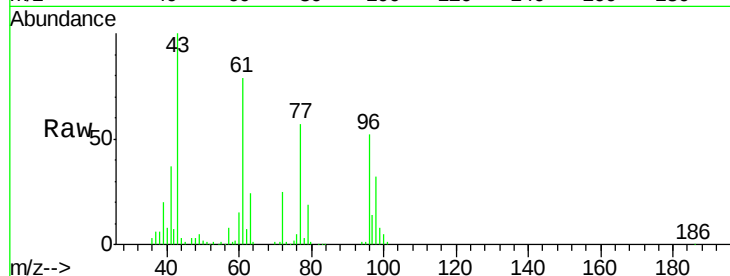
ClientSampled :

VN0306WBSD01

Tot Ion:	96	Resp:	151628
Ion	Ratio	Lower	Upper
96	100		
61	148.4	0.0	297.0
98	63.9	0.0	129.4

Manual Integrations
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MMDadoda
3/7/2019 11:39:32 AM



#28

Bromochloromethane

Concen: 21.217 ug/l

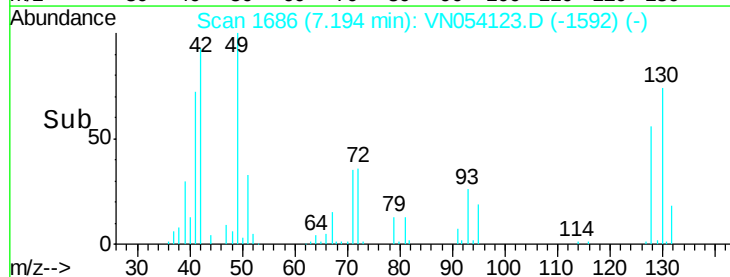
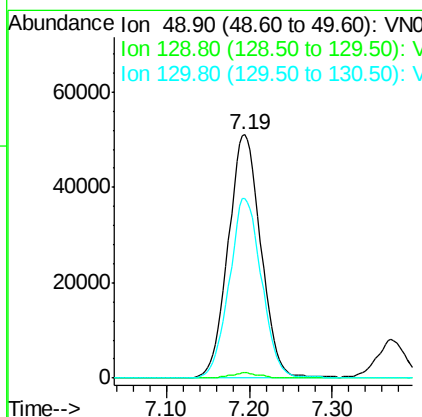
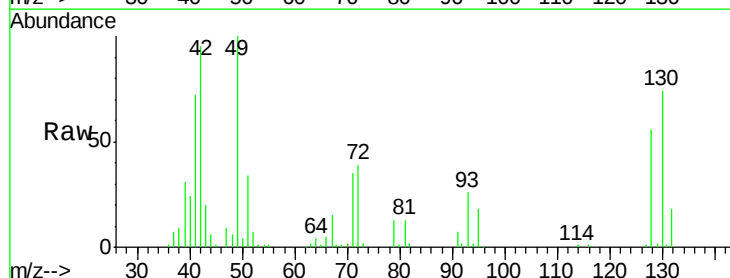
RT: 7.19 min Scan# 1686

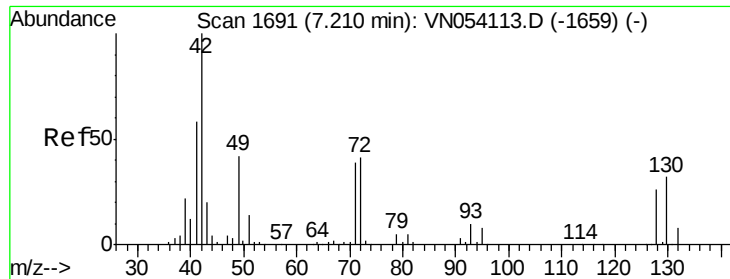
Delta R.T. 0.00 min

Lab File: VN054123.D

Acq: 6 Mar 2019 18:13

Tgt Ion:	49	Resp:	140429
Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.8
130	72.9	59.4	89.2





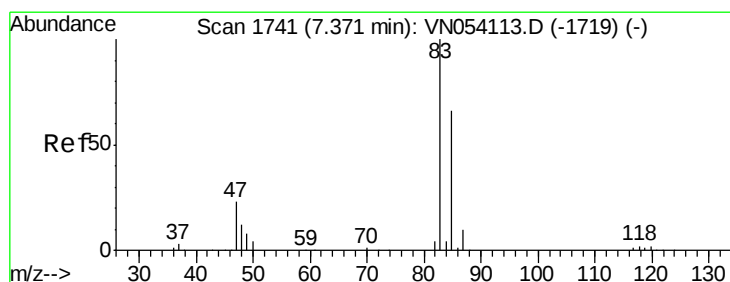
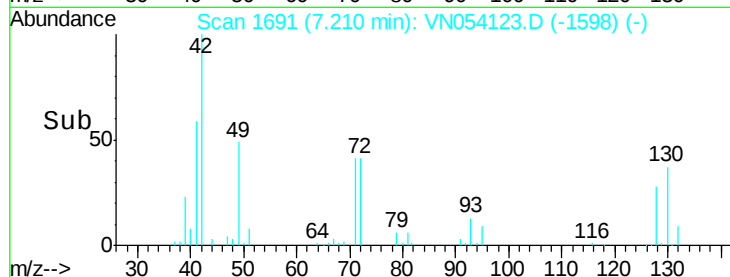
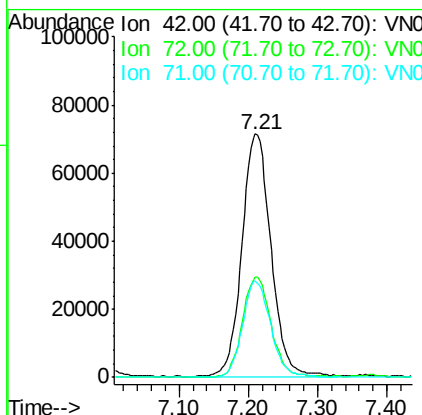
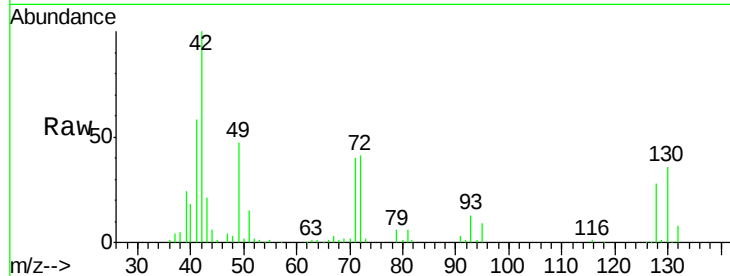
#29
Tetrahydrofuran
Concen: 98.725 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN054123.D
Acq: 6 Mar 2019 18:13

Instrument :
MSVOA_N
ClientSampleId :
VN0306WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.7	32.8	49.2
71	38.5	30.5	45.7

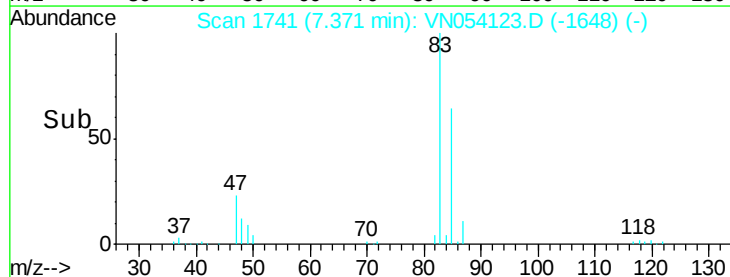
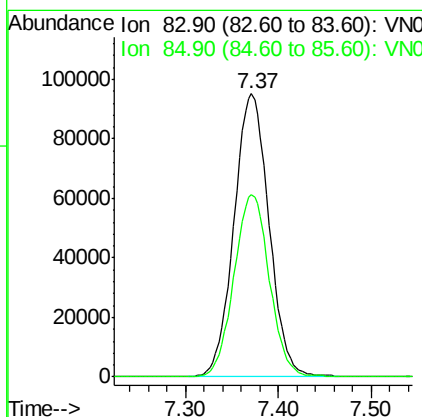
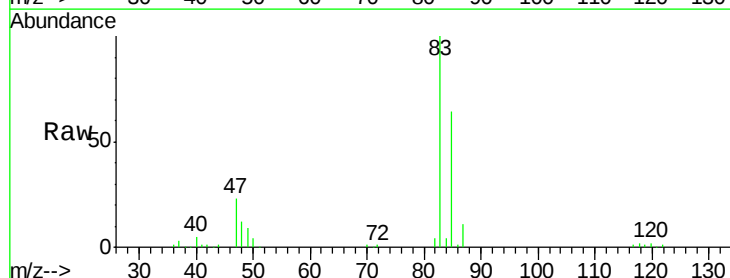
Manual Integrations
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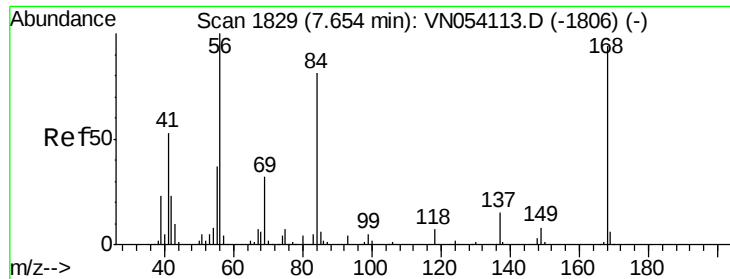
MMDadoda
3/7/2019 11:39:32 AM



#30
Chloroform
Concen: 19.622 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN054123.D
Acq: 6 Mar 2019 18:13

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.4	53.1	79.7





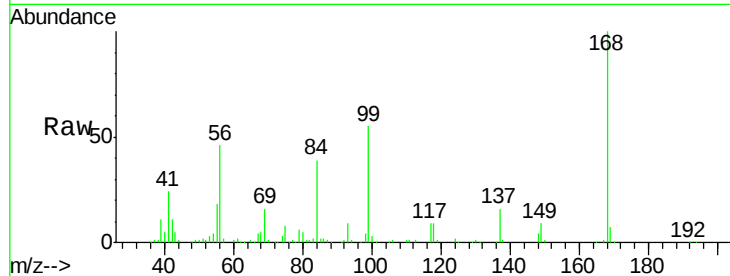
#31
Cyclohexane
Concen: 19.516 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.00 min
Lab File: VN054123.D
Acq: 6 Mar 2019 18:13

Instrument :
MSVOA_N
ClientSampleId :
VN0306WBSD01

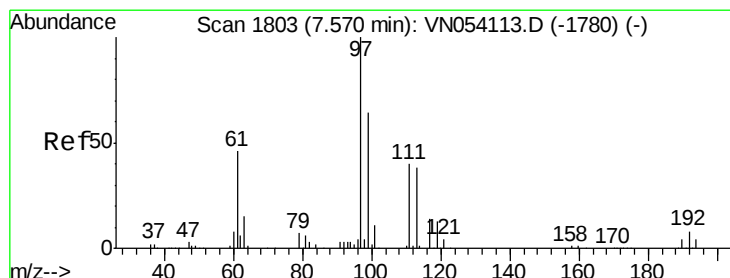
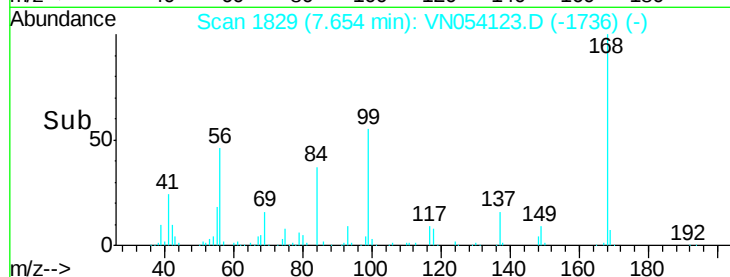
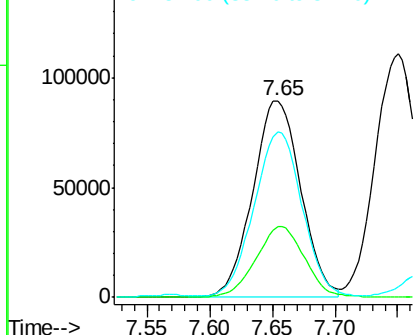
Tot Ion	Ratio	Resp	Lower	Upper
56	100	238325		
69	35.8		25.5	38.3
84	83.2		64.5	96.7

Manual Integrations
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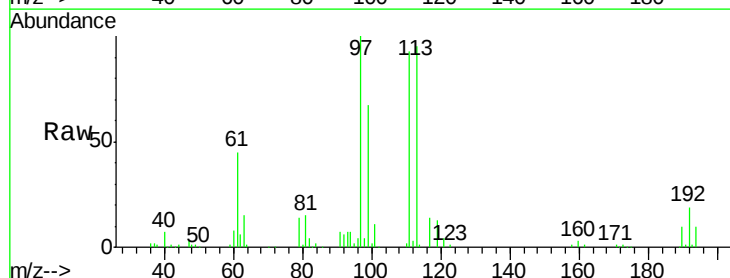


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

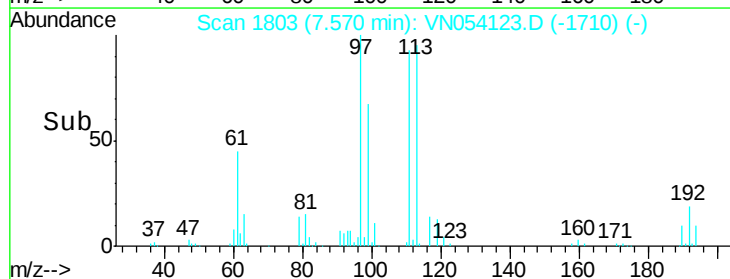
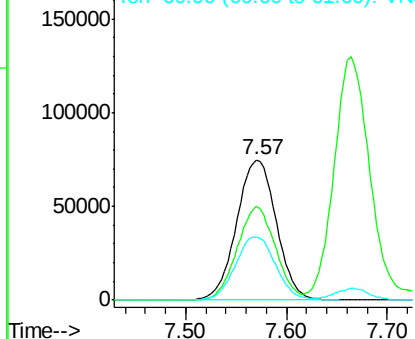


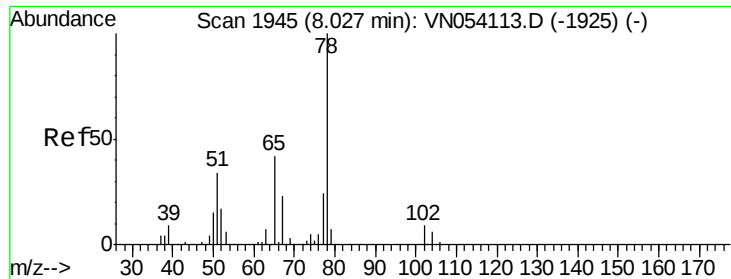
#32
1,1,1-Trichloroethane
Concen: 19.400 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VN054123.D
Acq: 6 Mar 2019 18:13

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	204369		
99	64.1		51.2	76.8
61	45.7		37.1	55.7



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





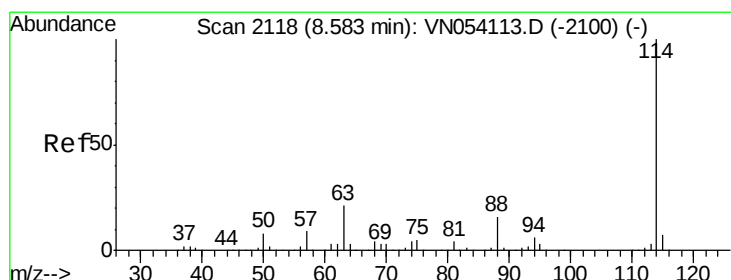
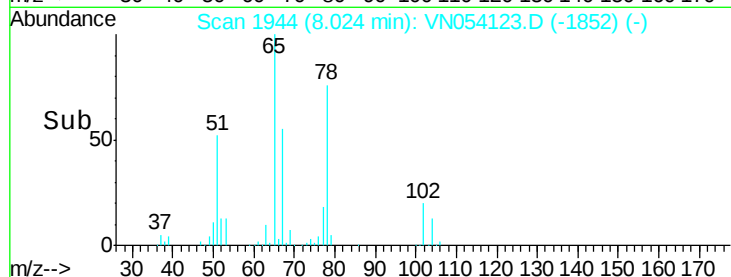
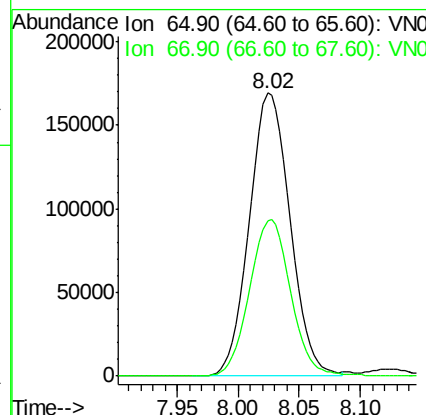
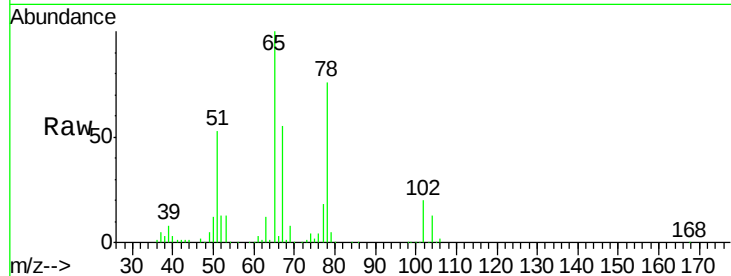
#33
 1,2-Dichloroethane-d4
 Concen: 49.825 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: VN054123.D
 Acq: 6 Mar 2019 18:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0306WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	56.0	0.0	109.6	

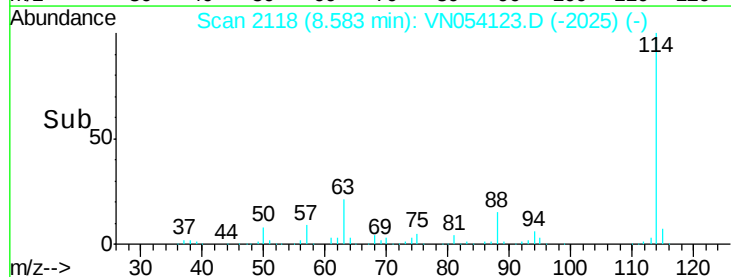
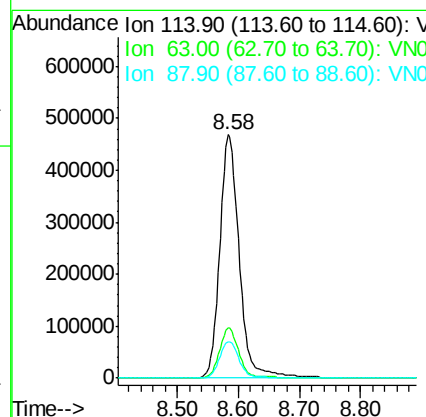
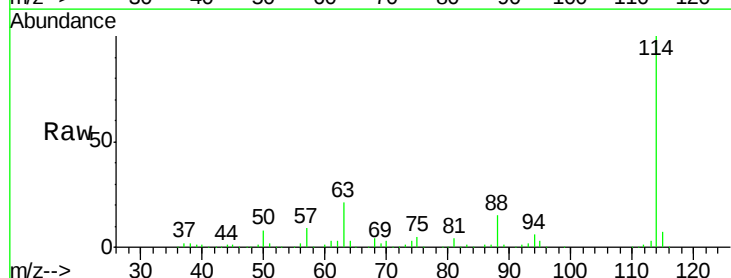
Manual Integrations
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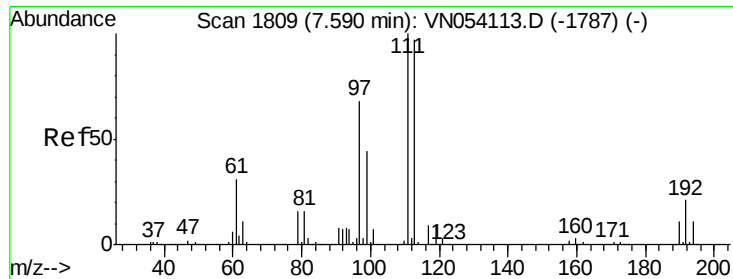
MMDadoda
 3/7/2019 11:39:32 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN054123.D
 Acq: 6 Mar 2019 18:13

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	20.8	0.0	42.6	
88	15.1	0.0	31.8	





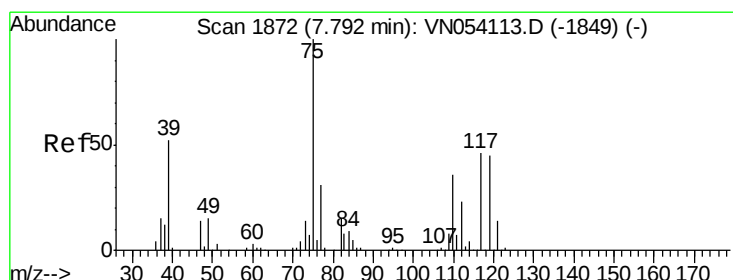
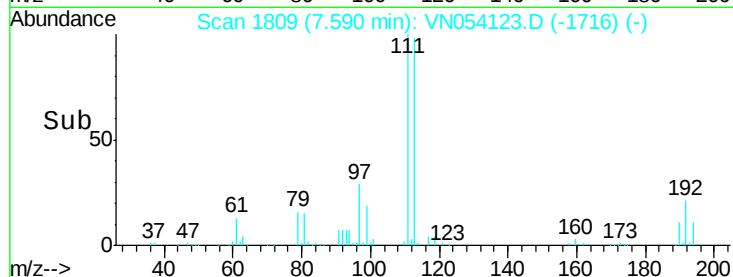
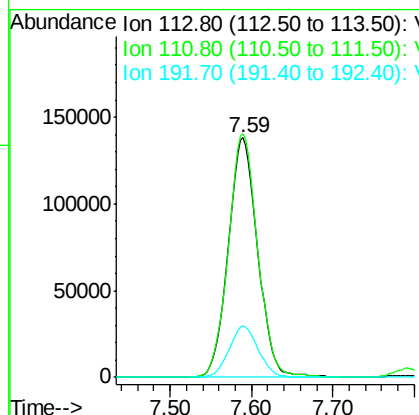
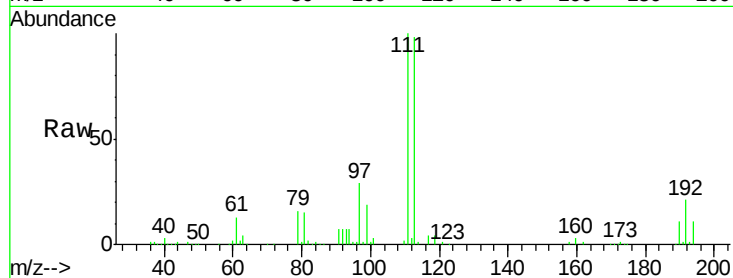
#35
 Dibromofluoromethane
 Concen: 51.590 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN054123.D
 Acq: 6 Mar 2019 18:13

Instrument :
 MSVOA_N
 ClientSampled :
 VN0306WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	101.9	82.1	123.1	
192	21.2	17.4	26.0	

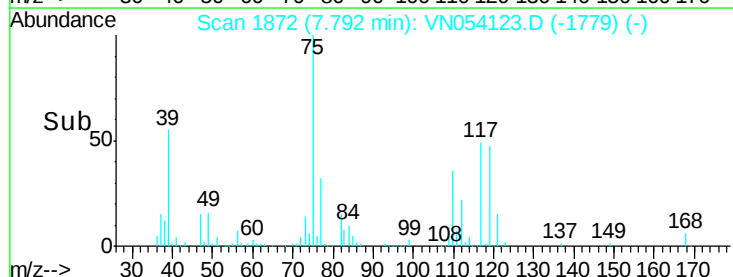
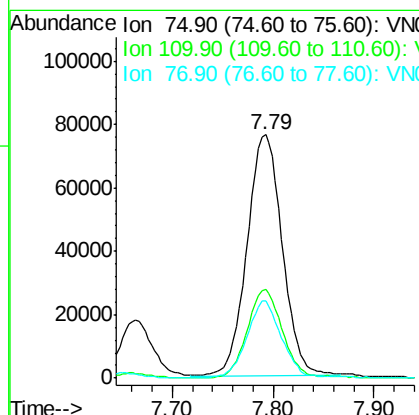
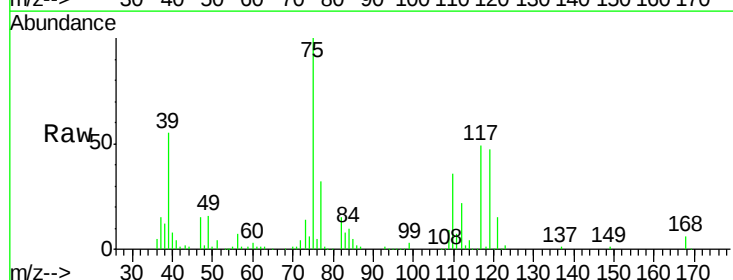
Manual Integrations
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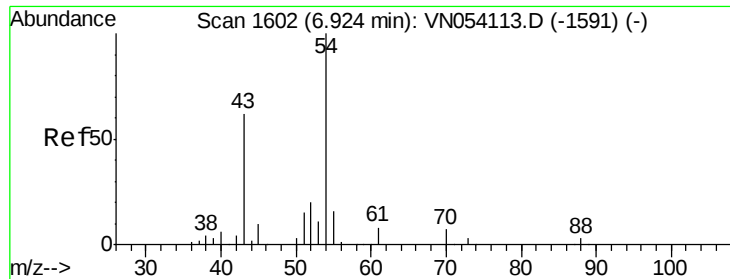
MMDadoda
 3/7/2019 11:39:32 AM



#36
 1,1-Dichloropropene
 Concen: 18.916 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. -0.00 min
 Lab File: VN054123.D
 Acq: 6 Mar 2019 18:13

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	36.3	18.0	54.0	
77	31.4	25.3	37.9	





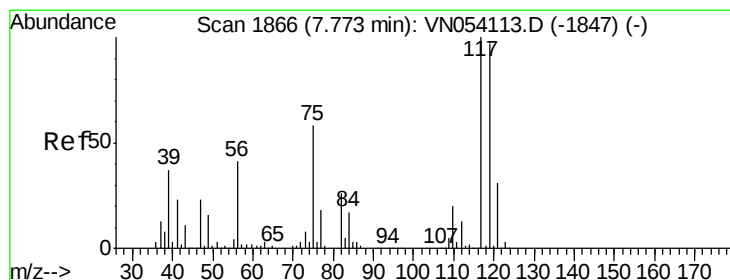
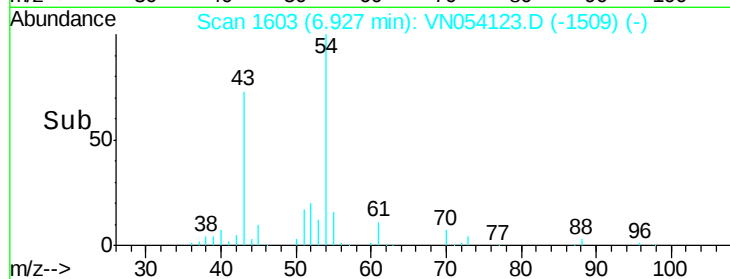
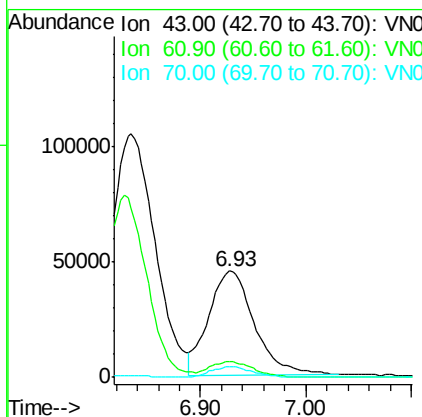
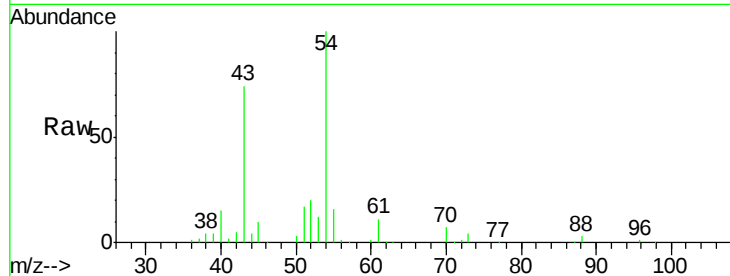
#37
Ethyl Acetate
Concen: 19.368 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VN054123.D
Acq: 6 Mar 2019 18:13

Instrument :
MSVOA_N
ClientSampleId :
VN0306WBSD01

Tot Ion	43	61	70	Ratio	Lower	Upper
136187	100	13.8	8.8		11.1	16.7
					7.6	11.4

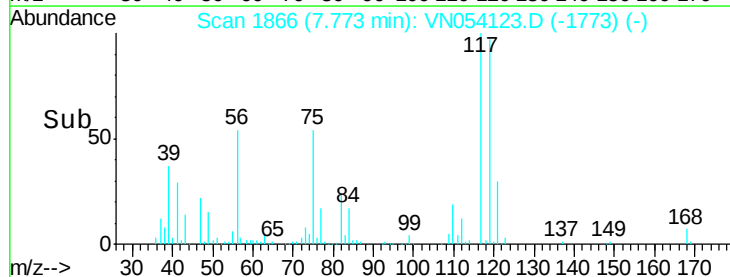
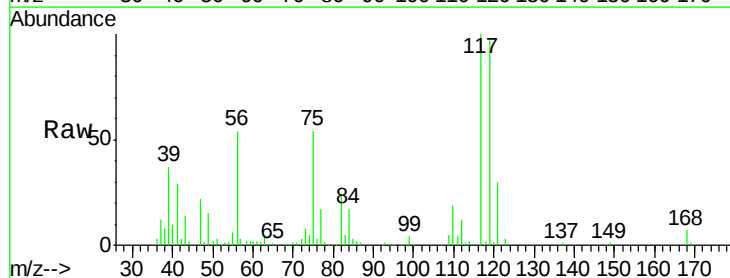
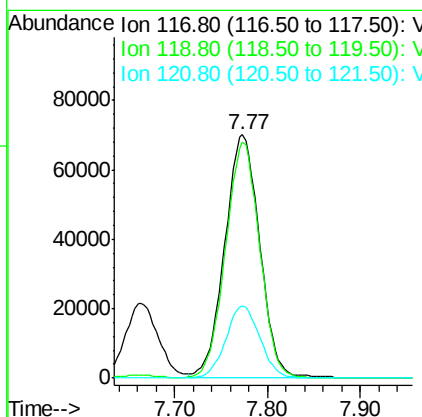
Manual Integrations
APPROVED

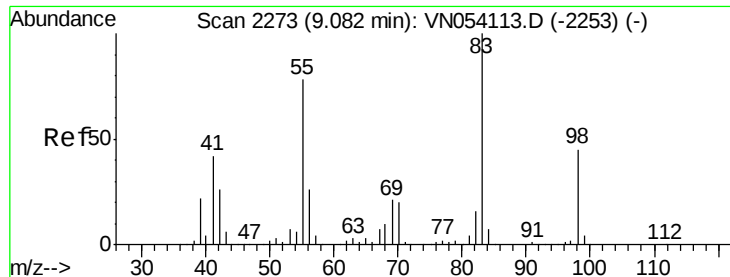
MMDadoda
3/7/2019 11:39:32 AM



#38
Carbon Tetrachloride
Concen: 19.551 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN054123.D
Acq: 6 Mar 2019 18:13

Tgt Ion	117	119	121	Ratio	Lower	Upper
182387	100	97.1	29.7		77.0	115.6
					24.3	36.5





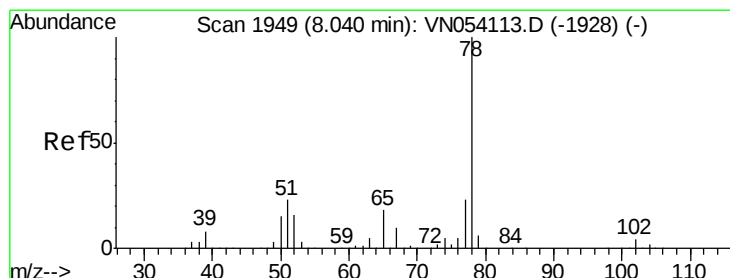
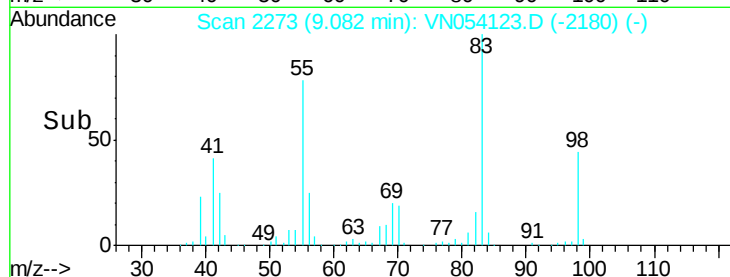
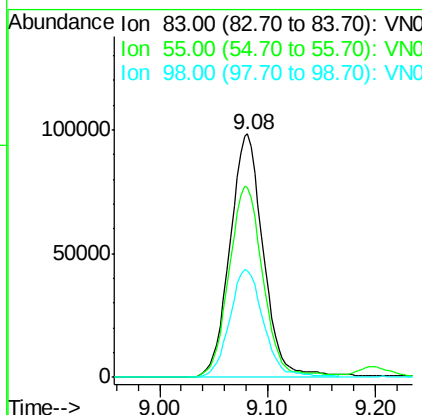
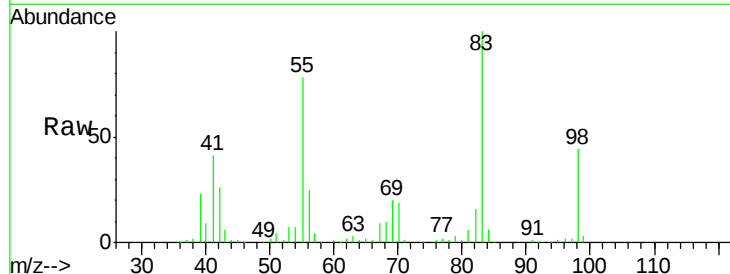
#39
Methvlcvclohexane
Concen: 18.789 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN054123.D
Acq: 6 Mar 2019 18:13

Instrument :
MSVOA_N
ClientSampled :
VN0306WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	77.9	62.1	93.1	
98	43.9	36.0	54.0	

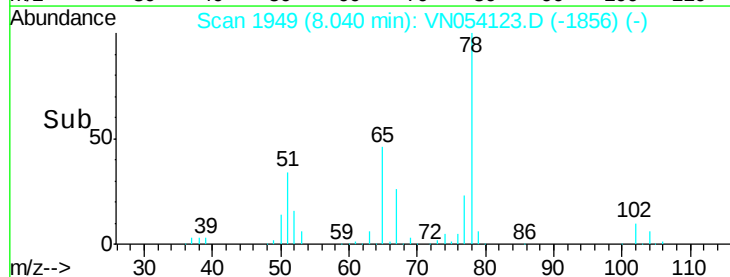
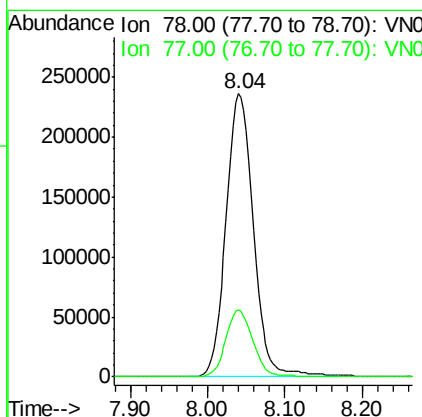
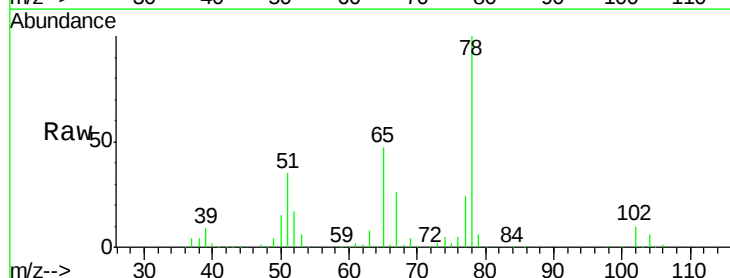
Manual Integrations
APPROVED

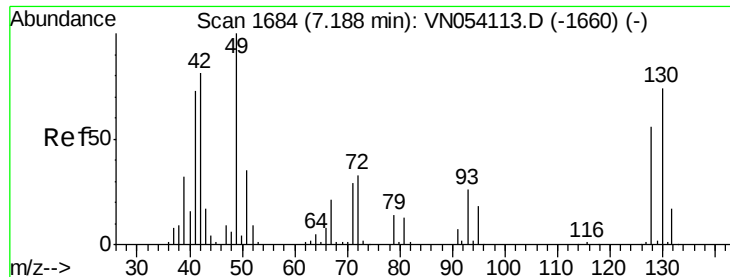
MMDadoda
3/7/2019 11:39:32 AM



#40
Benzene
Concen: 20.067 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN054123.D
Acq: 6 Mar 2019 18:13

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	23.6	18.7	28.1	





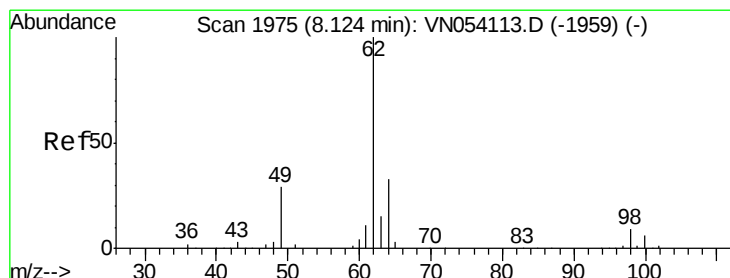
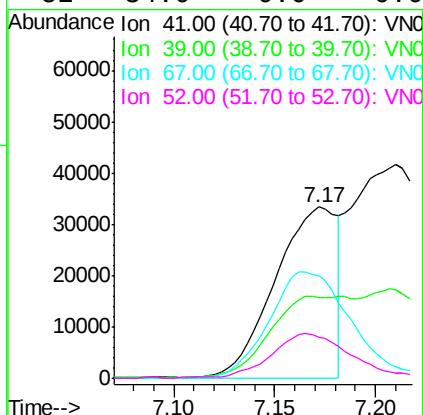
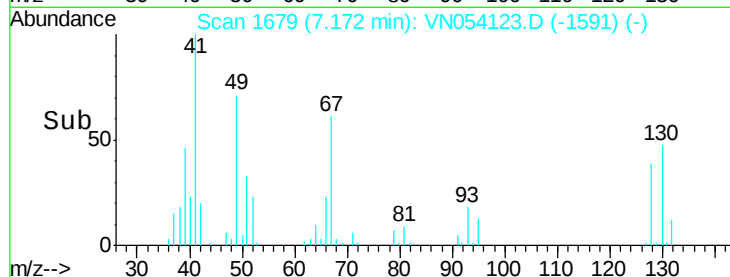
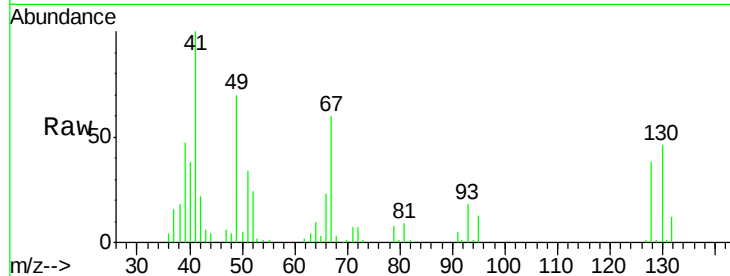
#41
Methacrylonitrile
Concen: 19.463 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.02 min
Lab File: VN054123.D
Acq: 6 Mar 2019 18:13

Instrument :
MSVOA_N
ClientSampleId :
VN0306WBSD01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	42.8	0.0	0.0	0.0
67	83.9	0.0	0.0	0.0
52	34.0	0.0	0.0	0.0

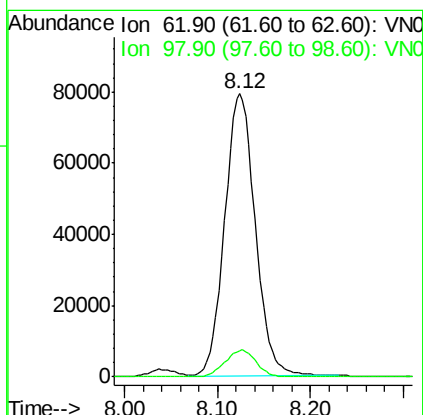
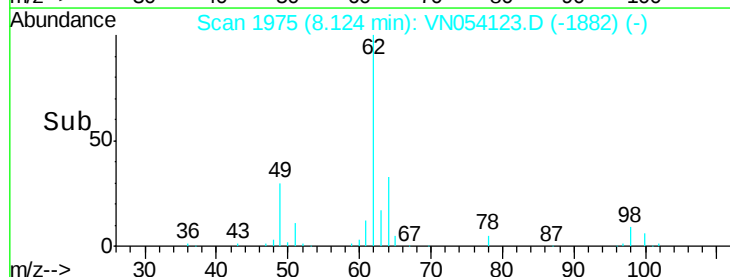
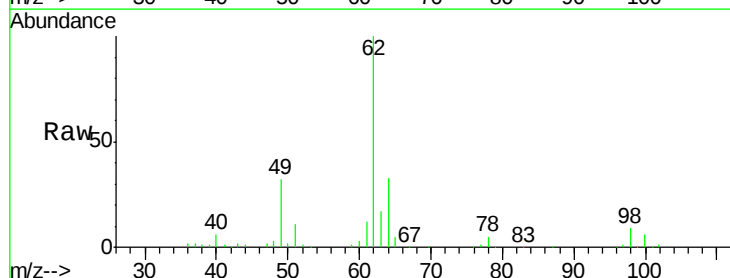
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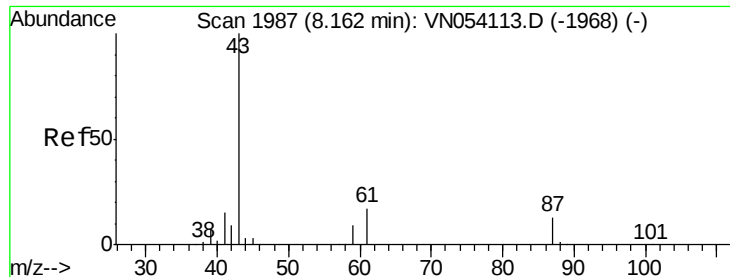
MMDadoda
3/7/2019 11:39:32 AM



#42
1,2-Dichloroethane
Concen: 19.815 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN054123.D
Acq: 6 Mar 2019 18:13

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.7	0.0	18.6	





#43

Isopropyl Acetate

Concen: 20.526 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN054123.D

Acq: 6 Mar 2019 18:13

Instrument :

MSVOA_N

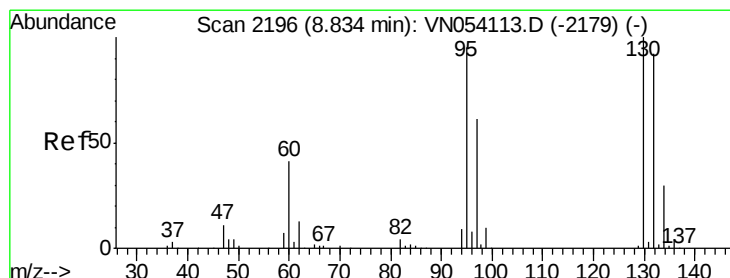
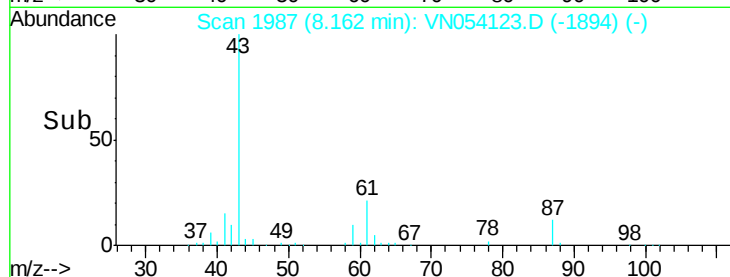
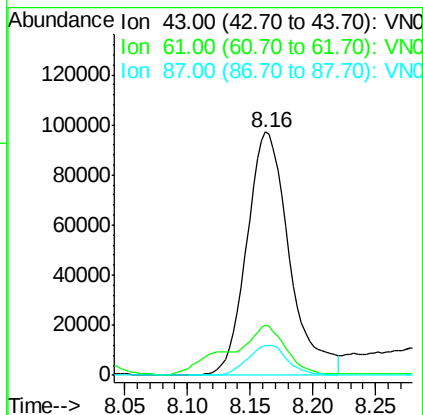
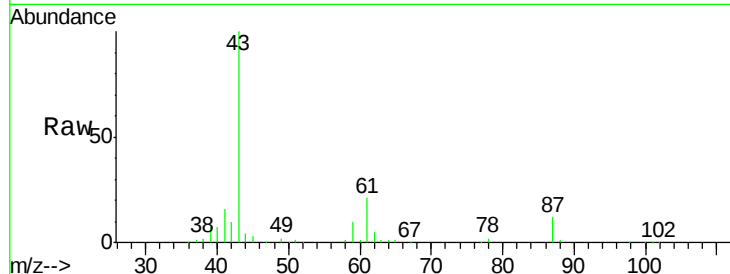
ClientSampleId :

VN0306WBSD01

Tot Ion:	43	Resp:	228405
Ion Ratio	Lower	Upper	
43	100		
61	17.7	22.5	33.7#
87	11.9	10.1	15.1

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3/7/2019 11:39:32 AM



#44

Trichloroethene

Concen: 19.593 ug/l

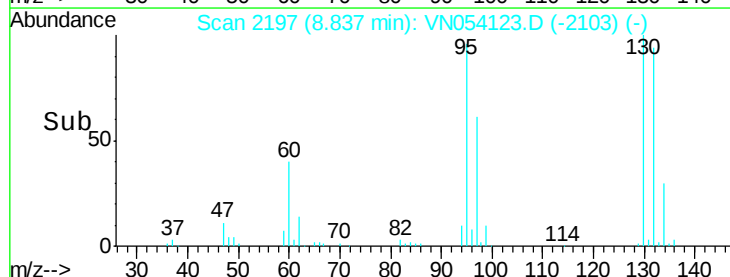
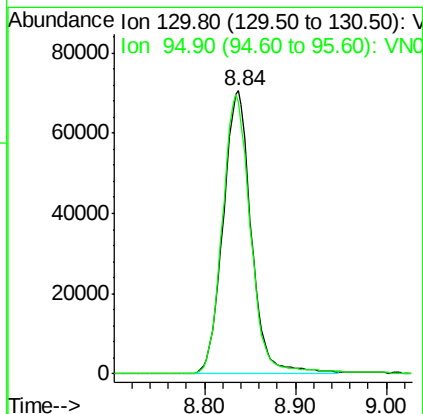
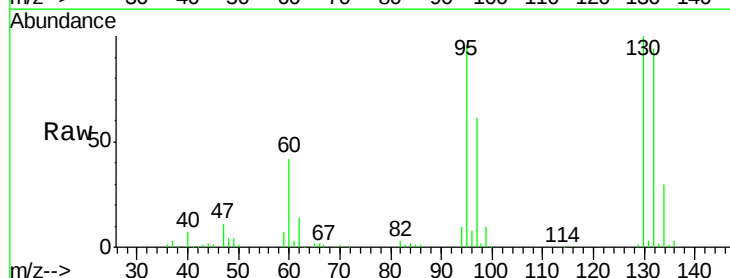
RT: 8.84 min Scan# 2197

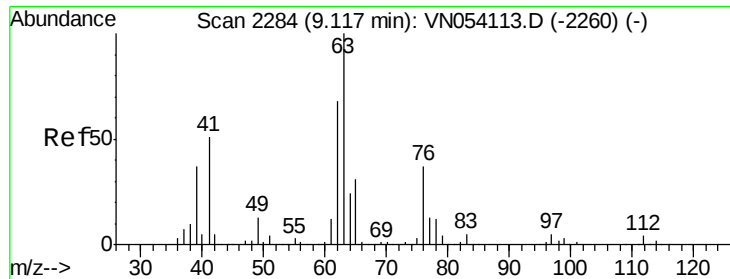
Delta R.T. 0.00 min

Lab File: VN054123.D

Acq: 6 Mar 2019 18:13

Tgt Ion:	130	Resp:	151887
Ion Ratio	Lower	Upper	
130	100		
95	96.1	0.0	189.4





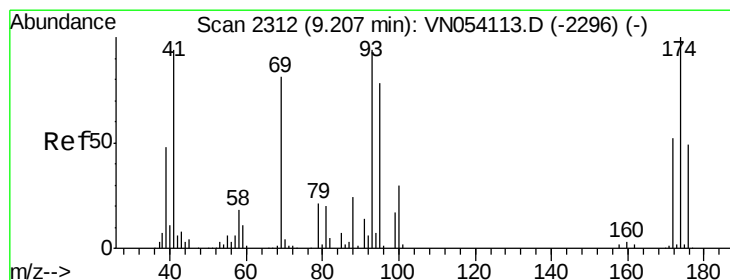
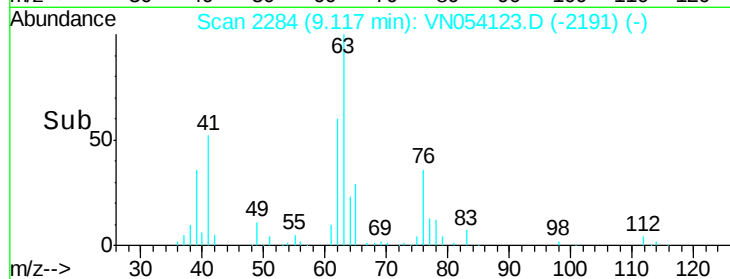
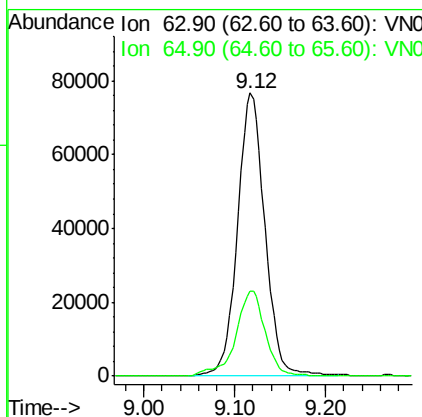
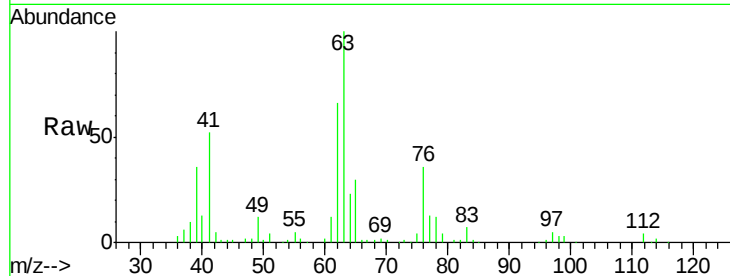
#45
 1,2-Dichloropropane
 Concen: 20.173 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. 0.00 min
 Lab File: VN054123.D
 Acq: 6 Mar 2019 18:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0306WBSD01

Tot Ion: 63 Resp: 160867
 Ion Ratio Lower Upper
 63 100
 65 30.0 24.6 36.8

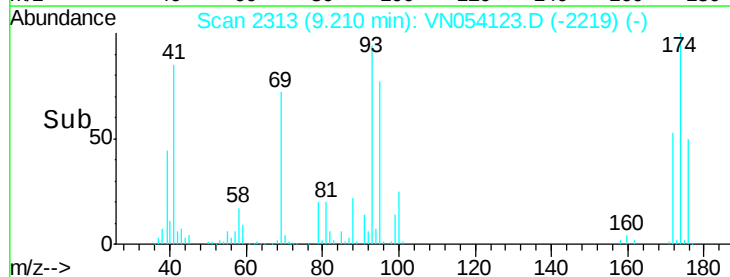
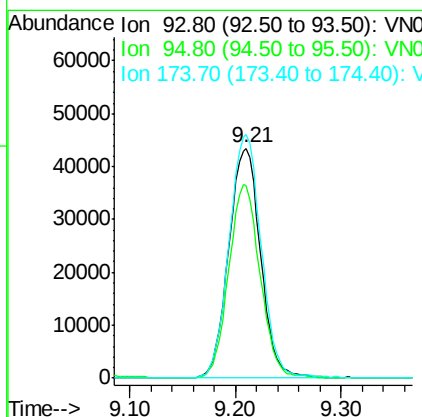
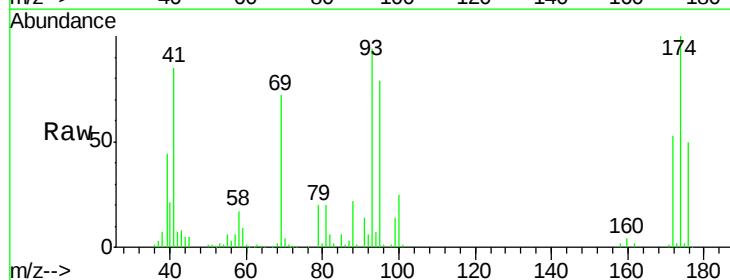
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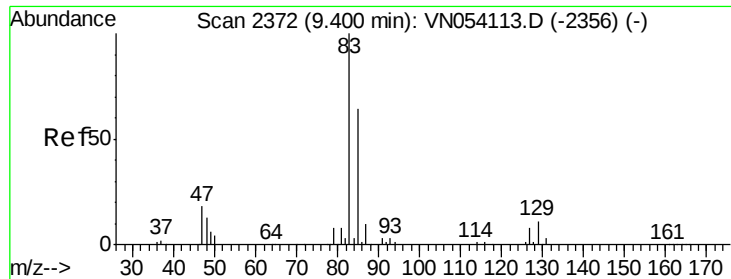
MMDadoda
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#46
 Dibromomethane
 Concen: 20.013 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN054123.D
 Acq: 6 Mar 2019 18:13

Tgt Ion: 93 Resp: 91102
 Ion Ratio Lower Upper
 93 100
 95 82.9 66.1 99.1
 174 106.5 86.1 129.1





#47

Bromodichloromethane

Concen: 19.774 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN054123.D

Acq: 6 Mar 2019 18:13

Instrument :

MSVOA_N

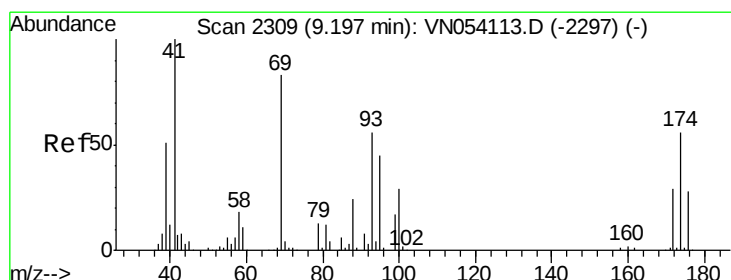
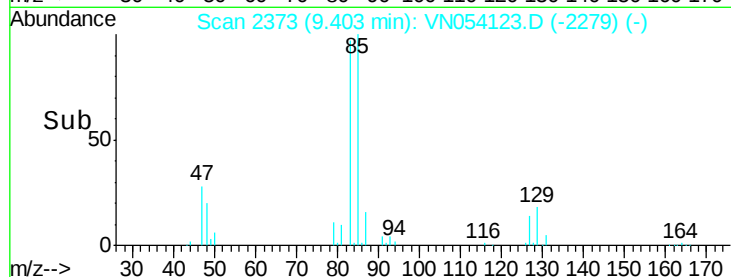
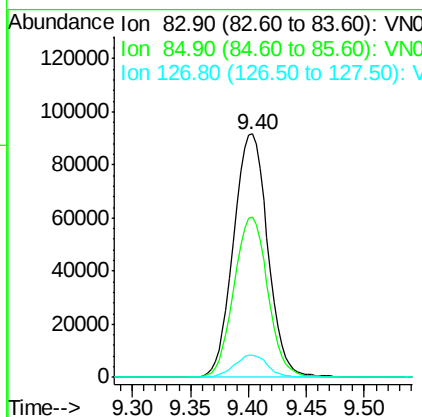
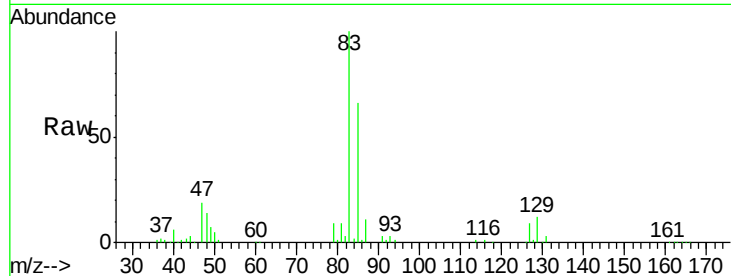
ClientSampleId :

VN0306WBSD01

Tot Ion:	83	Resp:	188425
Ion Ratio	Lower	Upper	
83	100		
85	65.9	51.0	76.4
127	9.2	6.5	9.7

Manual Integrations
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3/7/2019 11:39:32 AM



#48

Methyl methacrylate

Concen: 19.588 ug/l

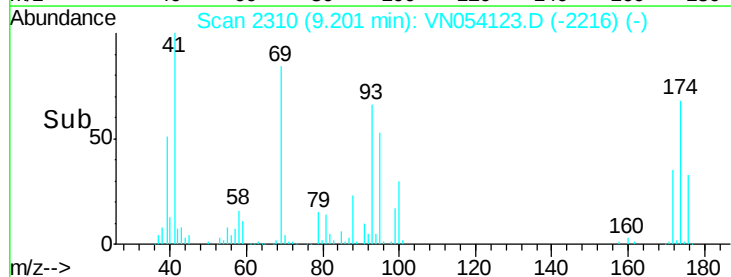
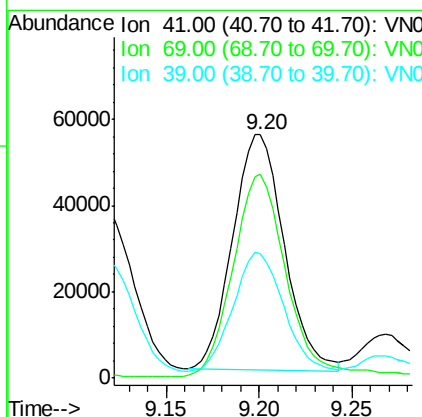
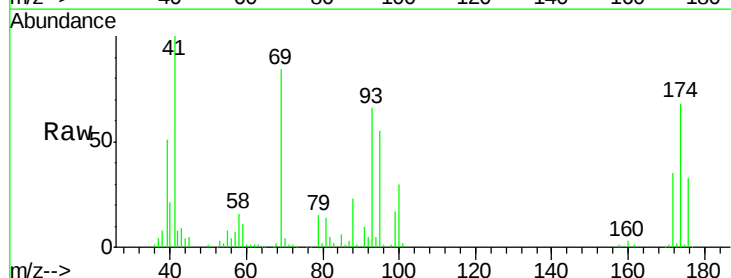
RT: 9.20 min Scan# 2310

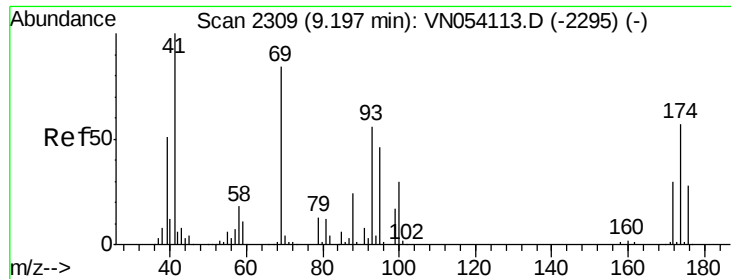
Delta R.T. 0.00 min

Lab File: VN054123.D

Acq: 6 Mar 2019 18:13

Tgt Ion:	41	Resp:	105326
Ion Ratio	Lower	Upper	
41	100		
69	90.6	71.0	106.4
39	54.2	43.7	65.5





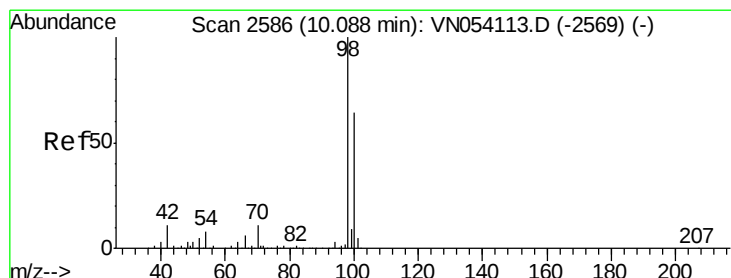
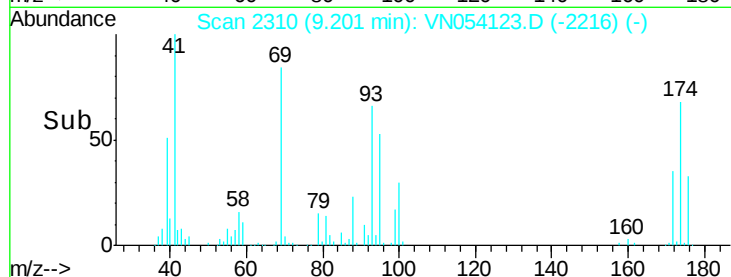
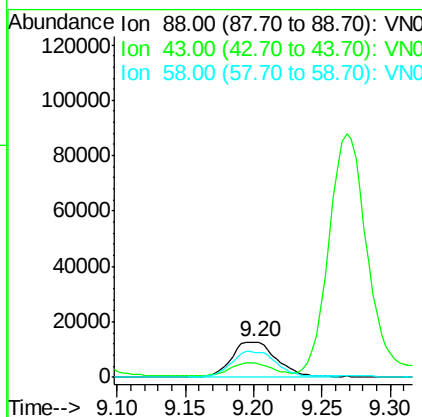
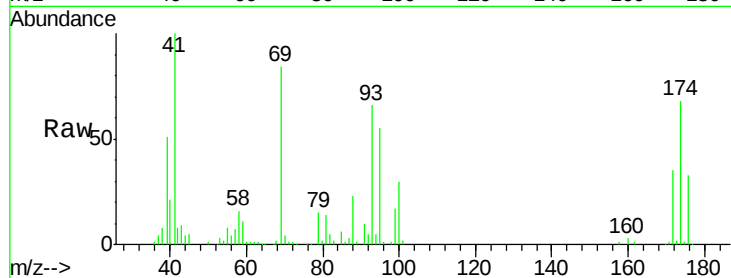
#49
1,4-Dioxane
Concen: 383.387 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN054123.D
Acq: 6 Mar 2019 18:13

Instrument :
MSVOA_N
ClientSampleId :
VN0306WBSD01

Tot Ion	88	Resp	29635
Ion	Ratio	Lower	Upper
88	100		
43	33.4	25.5	38.3
58	73.2	58.3	87.5

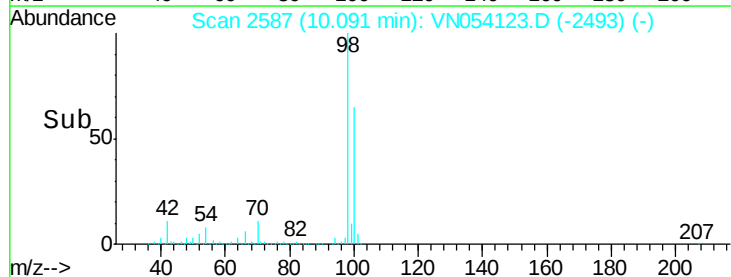
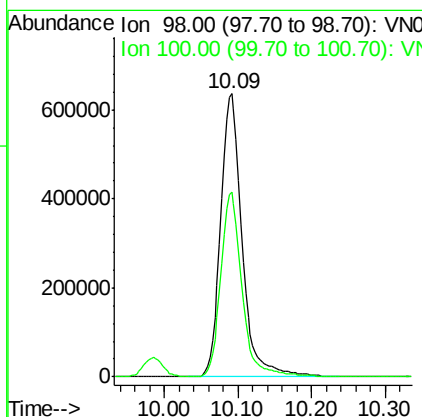
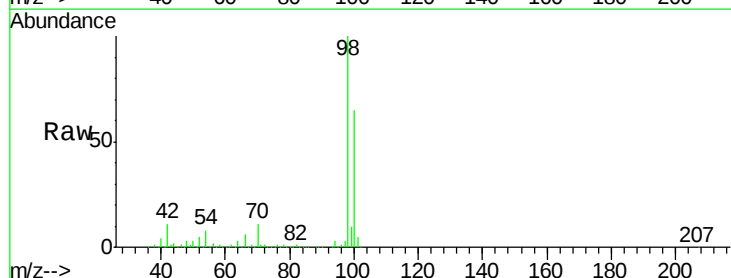
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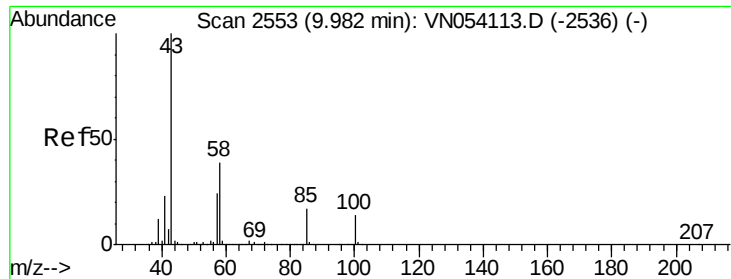
MMDadoda
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#50
Toluene-d8
Concen: 50.237 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN054123.D
Acq: 6 Mar 2019 18:13

Tgt Ion	98	Resp	1289924
Ion	Ratio	Lower	Upper
98	100		
100	64.6	51.7	77.5





#51

4-Methyl-2-Pentanone

Concen: 101.606 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN054123.D

Acq: 6 Mar 2019 18:13

Instrument :

MSVOA_N

ClientSampled :

VN0306WBSD01

Tot Ion: 43 Resp: 633867

Ion Ratio Lower Upper

43 100

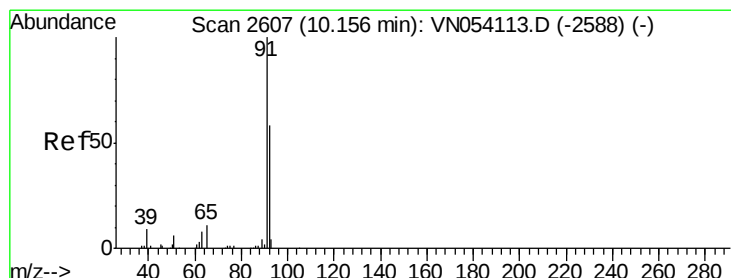
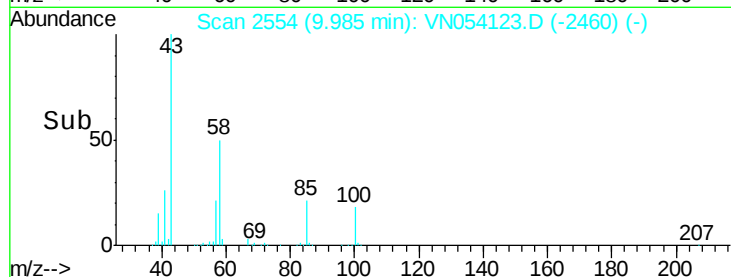
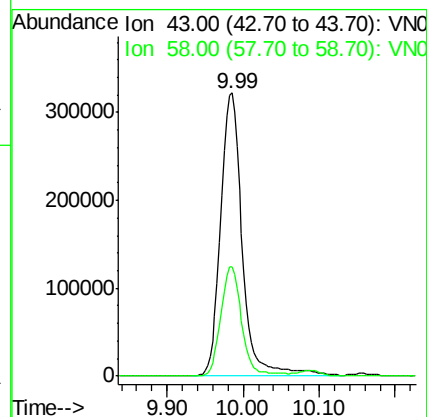
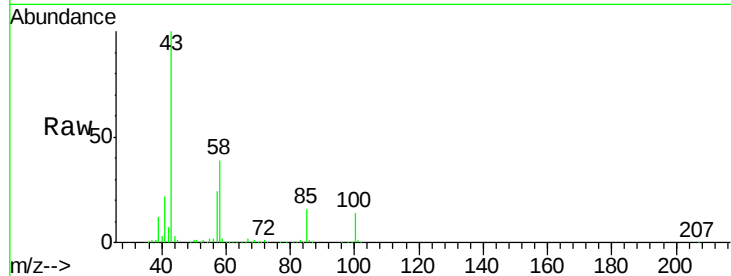
58 37.6 30.8 46.2

Manual Integrations

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#52

Toluene

Concen: 19.945 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN054123.D

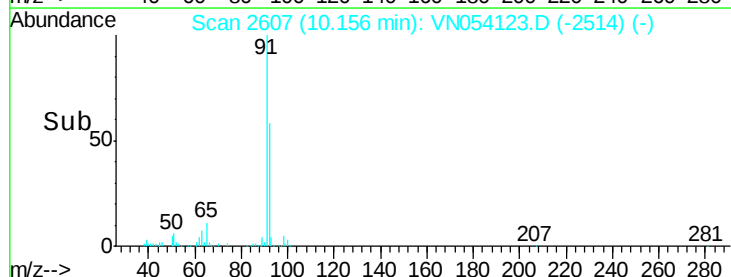
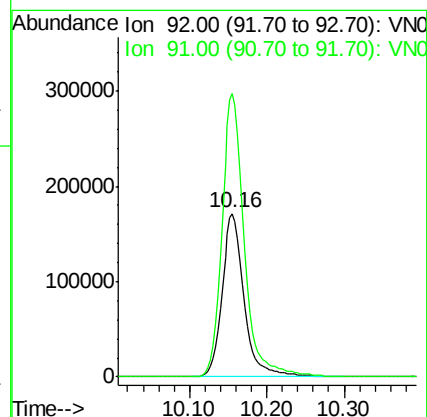
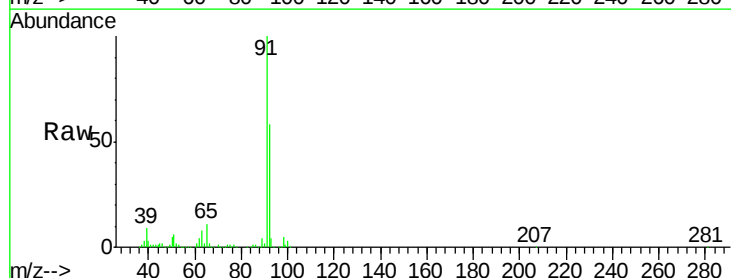
Acq: 6 Mar 2019 18:13

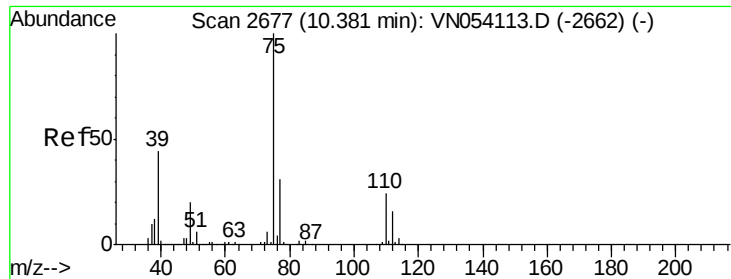
Tgt Ion: 92 Resp: 341619

Ion Ratio Lower Upper

92 100

91 175.9 139.0 208.6





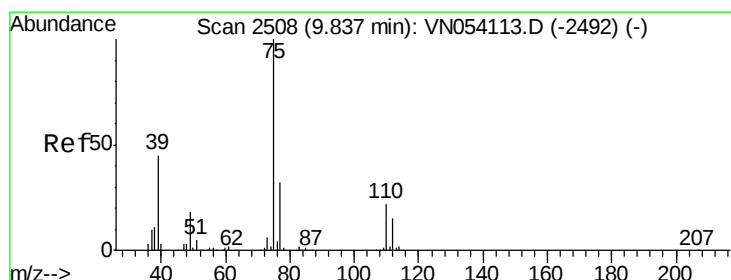
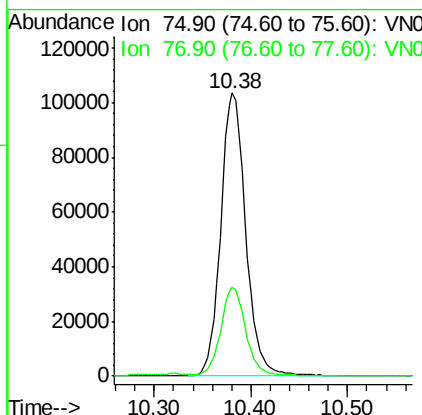
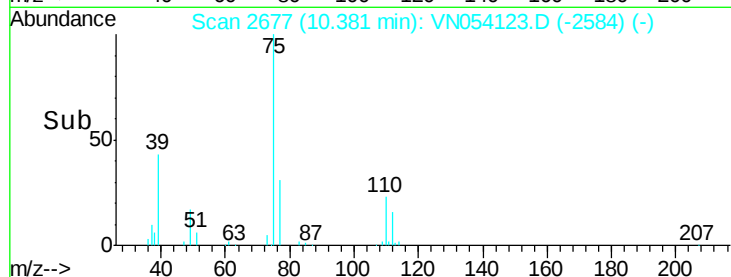
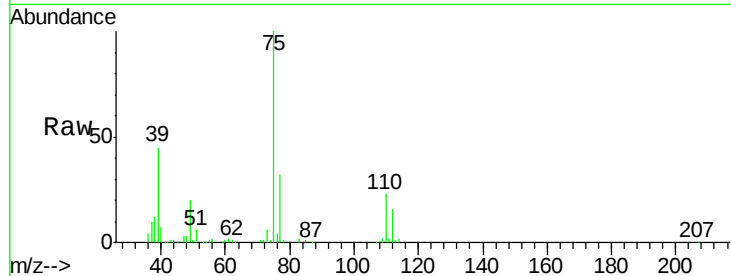
#53
t-1,3-Dichloropropene
Concen: 19.776 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN054123.D
Acq: 6 Mar 2019 18:13

Instrument :
MSVOA_N
ClientSampleId :
VN0306WBSD01

Tot Ion: 75 Resp: 185873
Ion Ratio Lower Upper
75 100
77 31.3 24.9 37.3

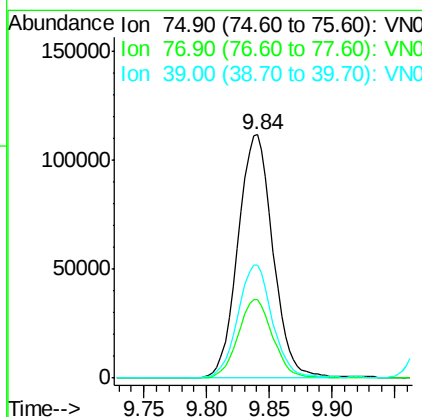
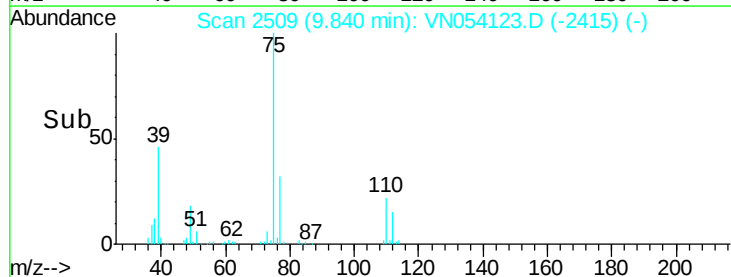
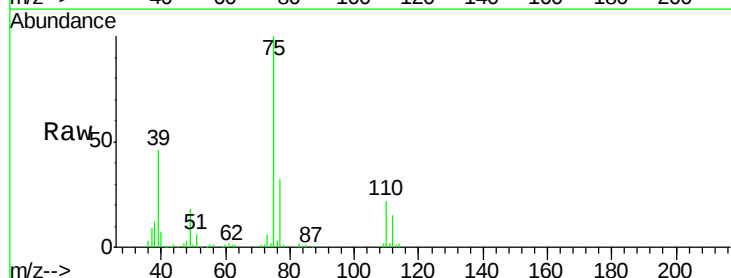
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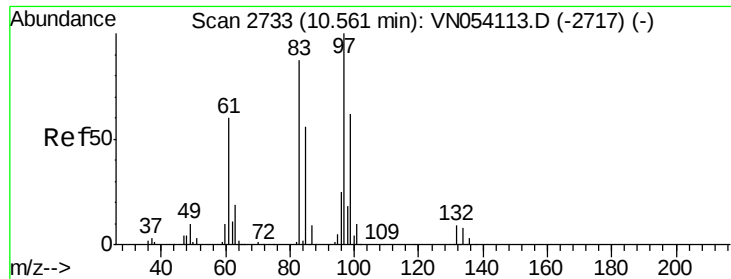
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 19.513 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN054123.D
Acq: 6 Mar 2019 18:13

Tgt Ion: 75 Resp: 216757
Ion Ratio Lower Upper
75 100
77 32.1 25.4 38.0
39 46.4 36.2 54.2





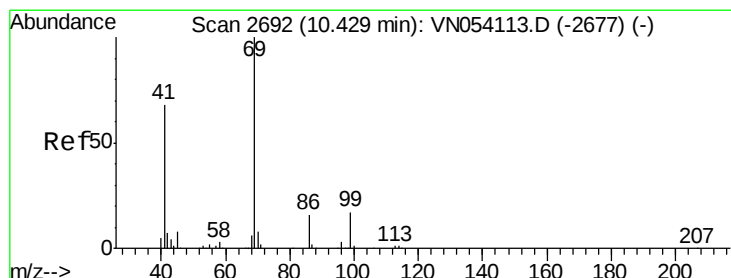
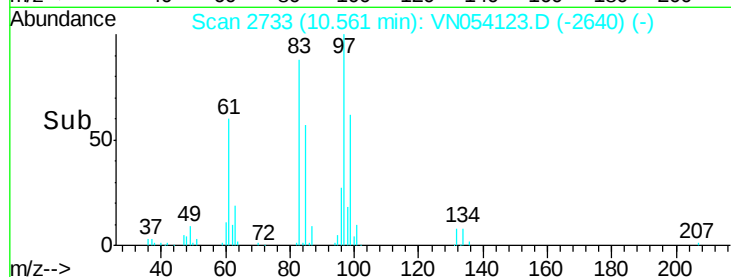
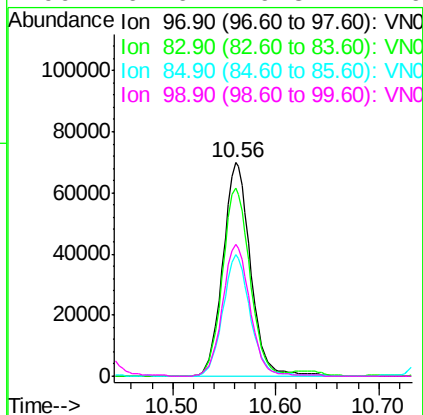
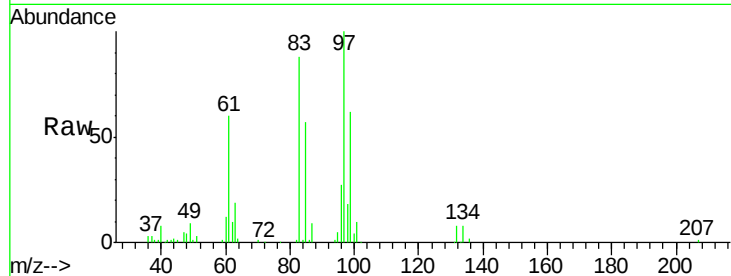
#55
 1,1,2-Trichloroethane
 Concen: 20.171 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN054123.D
 Acq: 6 Mar 2019 18:13

Instrument :
 MSVOA_N
 ClientSampled :
 VN0306WBSD01

Tot Ion	Ratio	Lower	Upper
97	100		
83	88.4	69.8	104.6
85	56.9	45.0	67.4
99	61.6	49.8	74.6

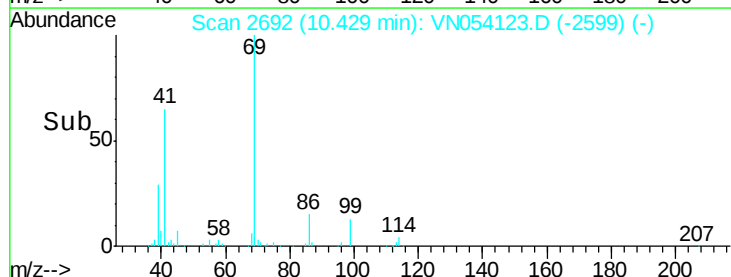
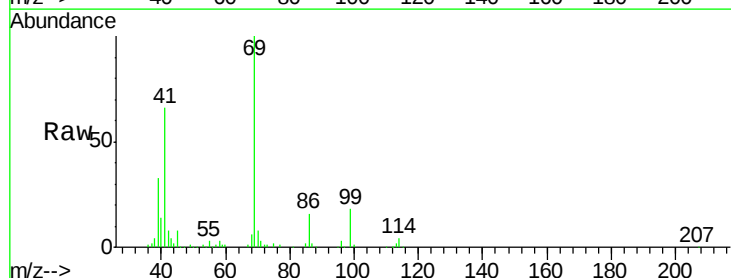
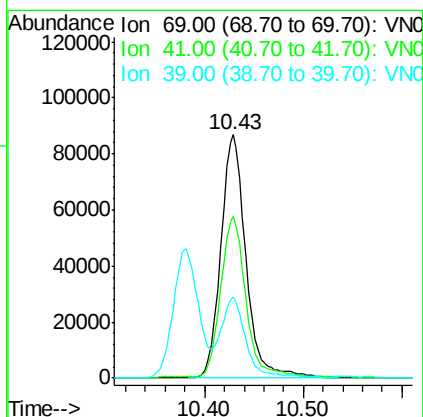
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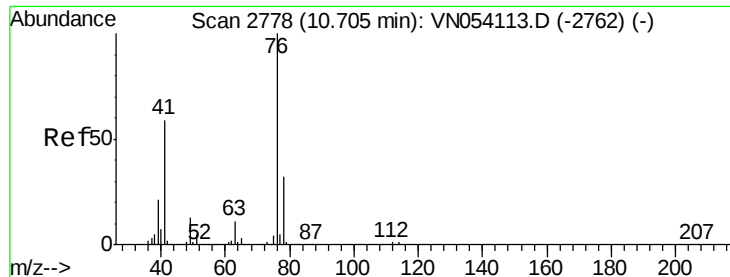
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 3/7/2019 11:39:32 AM



#56
 Ethyl methacrylate
 Concen: 20.511 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. -0.00 min
 Lab File: VN054123.D
 Acq: 6 Mar 2019 18:13

Tgt Ion	Ratio	Lower	Upper
69	100		
41	65.5	53.4	80.2
39	32.8	25.6	38.4





#57

1,3-Dichloropropane

Concen: 19.995 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. -0.00 min

Lab File: VN054123.D

Acq: 6 Mar 2019 18:13

Instrument :

MSVOA_N

ClientSampleId :

VN0306WBSD01

Tot Ion: 76 Resp: 220046

Ion Ratio Lower Upper

76 100

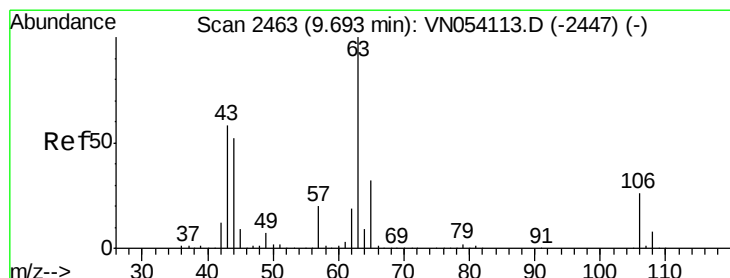
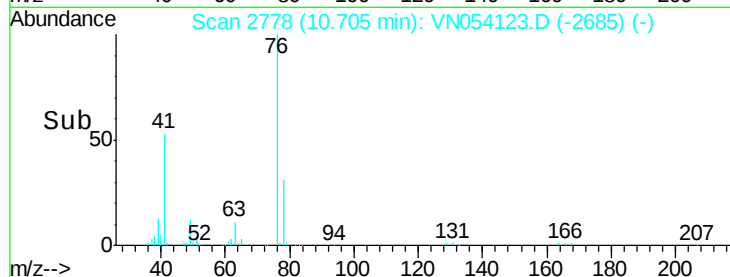
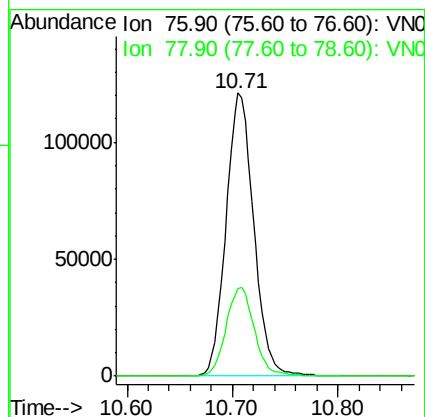
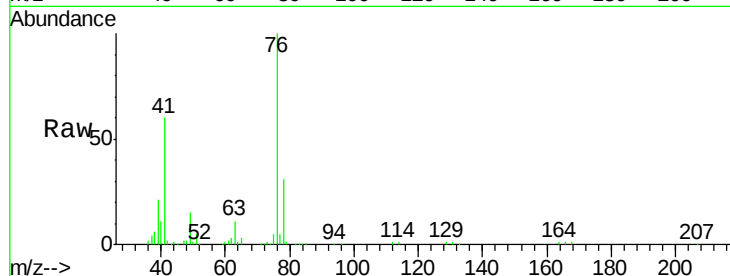
78 32.1 25.9 38.9

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#58

2-Chloroethyl Vinyl ether

Concen: 96.224 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN054123.D

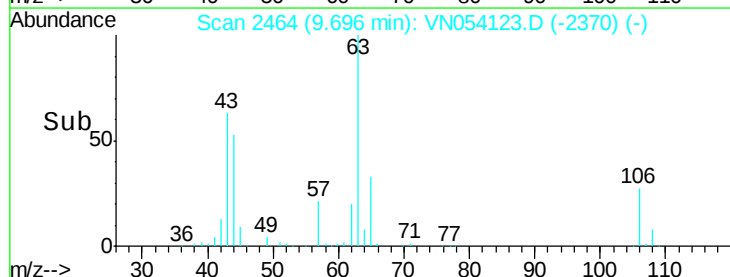
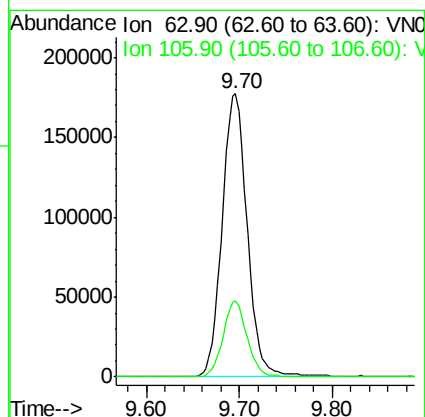
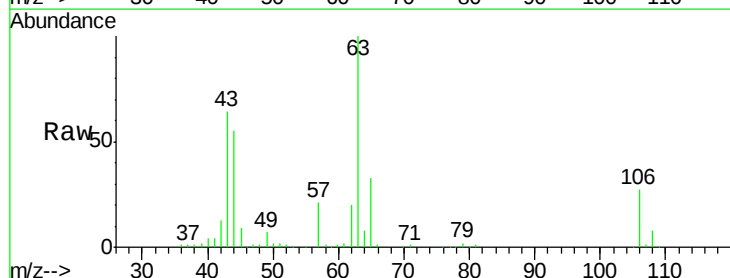
Acq: 6 Mar 2019 18:13

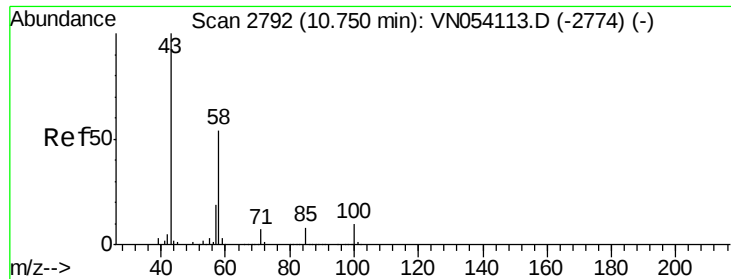
Tgt Ion: 63 Resp: 333477

Ion Ratio Lower Upper

63 100

106 25.8 20.2 30.2





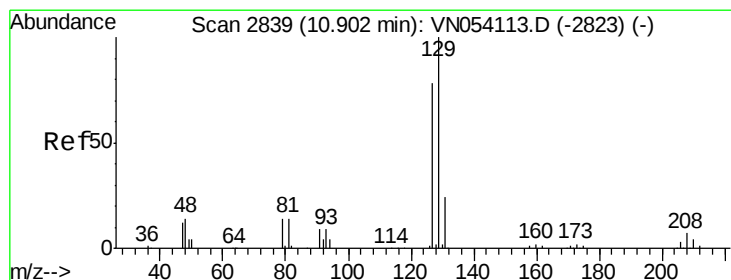
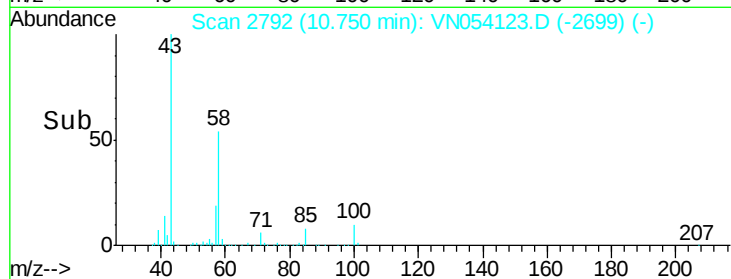
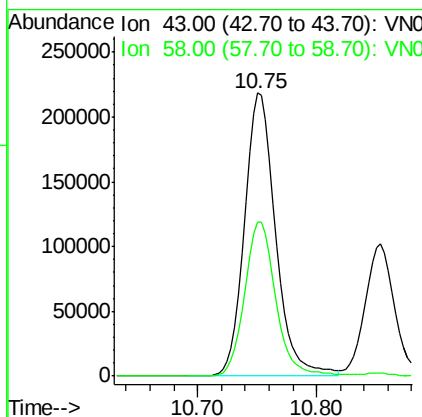
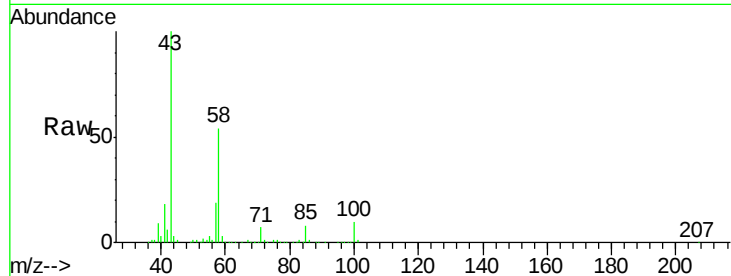
#59
2-Hexanone
Concen: 95.560 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN054123.D
Acq: 6 Mar 2019 18:13

Instrument :
MSVOA_N
ClientSampled :
VN0306WBSD01

Tot Ion: 43 Resp: 393285
Ion Ratio Lower Upper
43 100
58 54.8 27.0 81.0

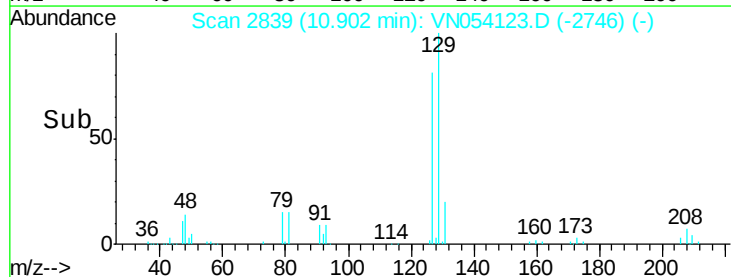
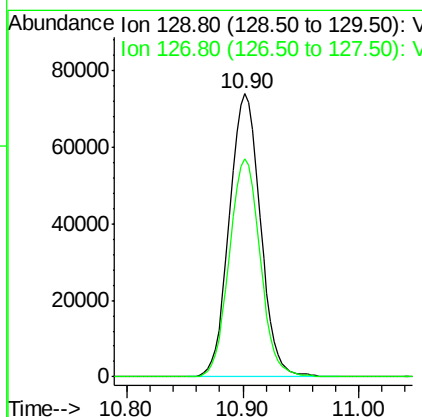
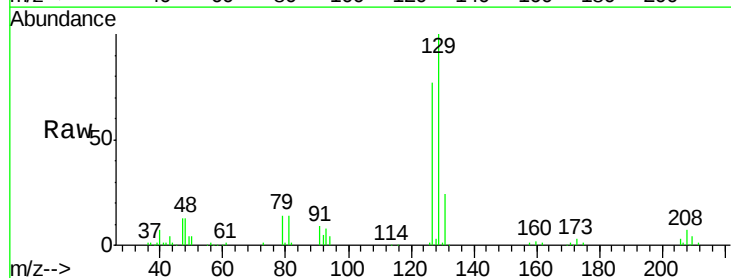
Manual Integrations
APPROVED

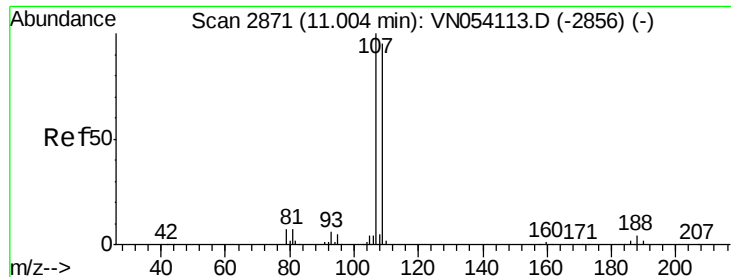
MMDadoda
3/7/2019 11:39:32 AM



#60
Dibromochloromethane
Concen: 19.854 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN054123.D
Acq: 6 Mar 2019 18:13

Tgt Ion: 129 Resp: 136920
Ion Ratio Lower Upper
129 100
127 76.3 38.8 116.4





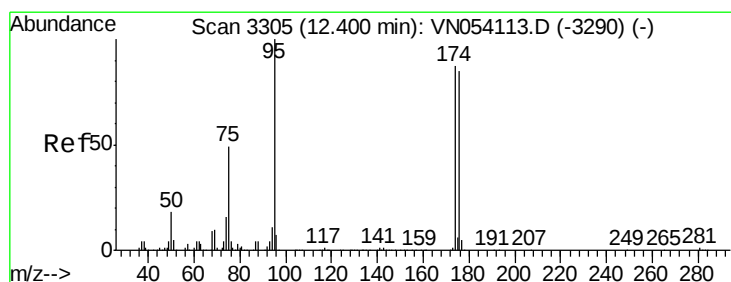
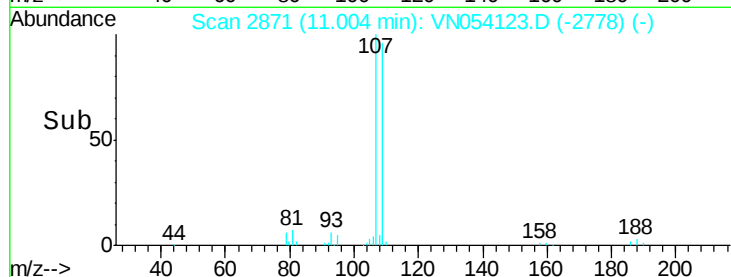
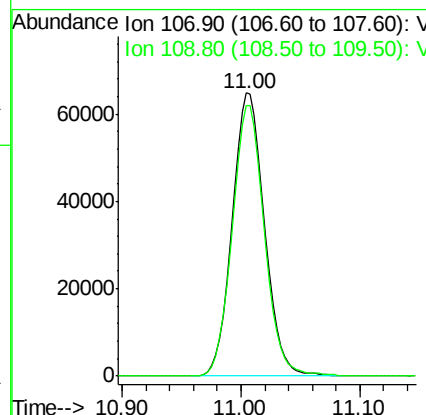
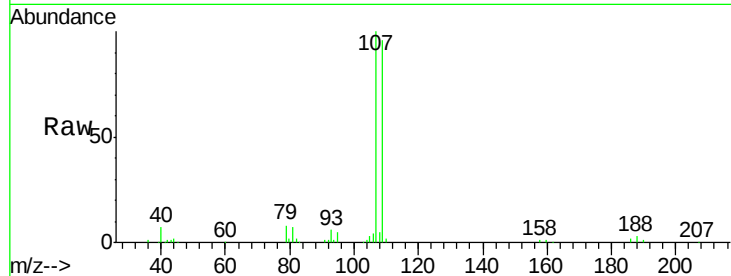
#61
 1,2-Dibromoethane
 Concen: 19.807 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN054123.D
 Acq: 6 Mar 2019 18:13

Instrument :
 MSVOA_N
 ClientSampled :
 VN0306WBSD01

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.5	74.9	112.3

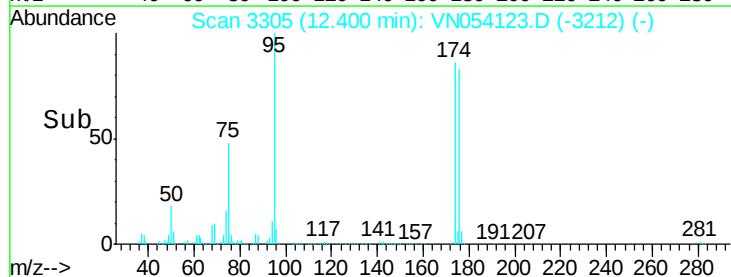
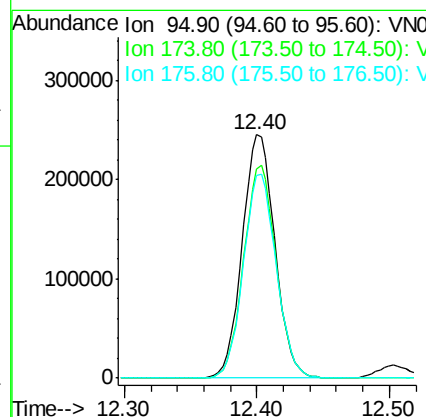
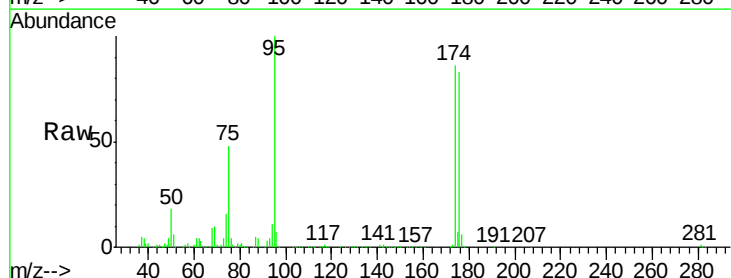
Manual Integrations
 APPROVED

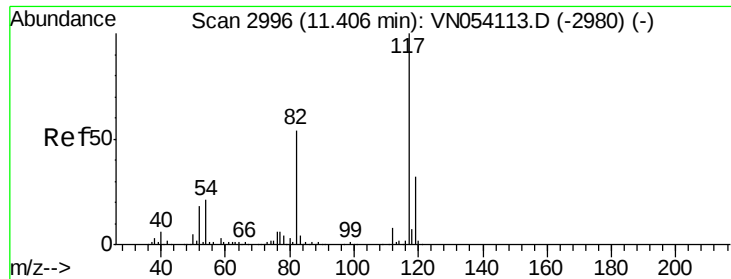
MMDadoda
 3/7/2019 11:39:32 AM



#62
 4-Bromofluorobenzene
 Concen: 50.098 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN054123.D
 Acq: 6 Mar 2019 18:13

Tgt Ion	Ratio	Lower	Upper
95	100		
174	86.9	0.0	173.2
176	84.2	0.0	168.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN054123.D

Acq: 6 Mar 2019 18:13

Instrument :

MSVOA_N

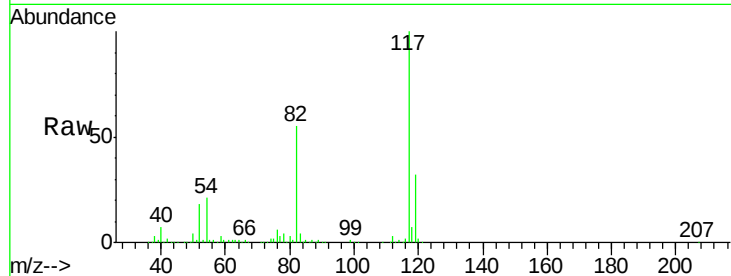
ClientSampleId :

VN0306WBSD01

Tot Ion:	117	Resp:	899816
Ion Ratio	Lower	Upper	
117	100		
82	55.0	43.4	65.2
119	32.0	26.0	39.0

Manual Integrations
APPROVED

MMDadoda
3/7/2019 11:39:32 AM

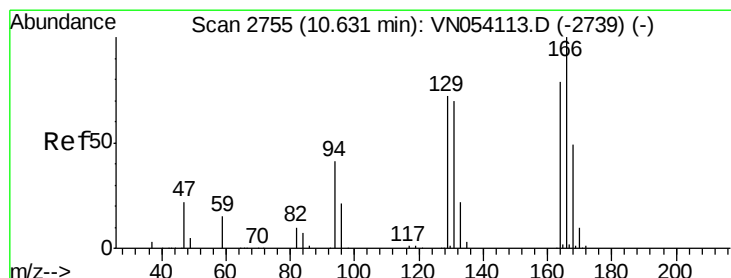
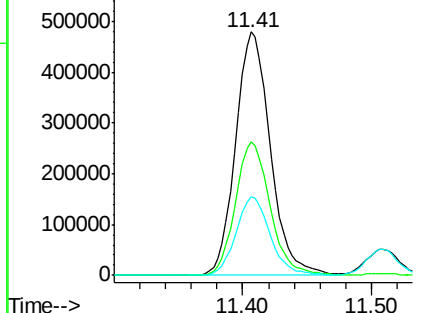
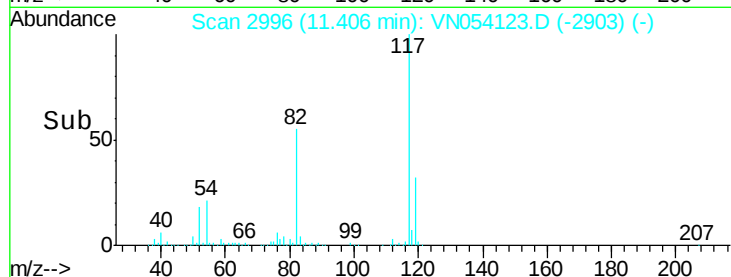


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V

Time-->



#64

Tetrachloroethene

Concen: 19.542 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN054123.D

Acq: 6 Mar 2019 18:13

Tgt Ion:	164	Resp:	144309
Ion Ratio	Lower	Upper	
164	100		
166	128.9	101.3	151.9
129	91.0	73.2	109.8
131	85.8	70.8	106.2

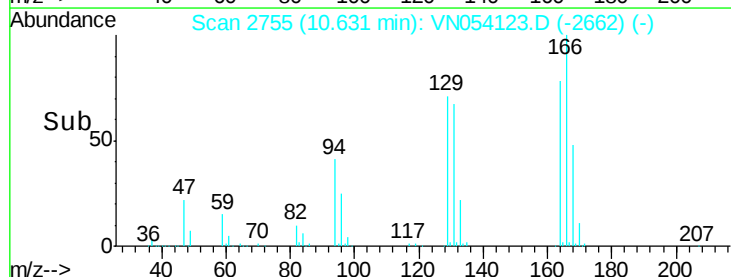
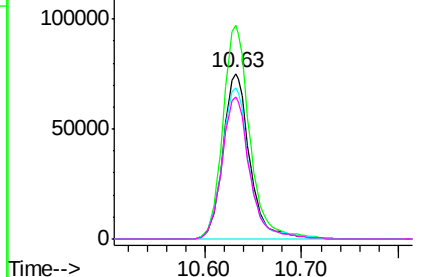
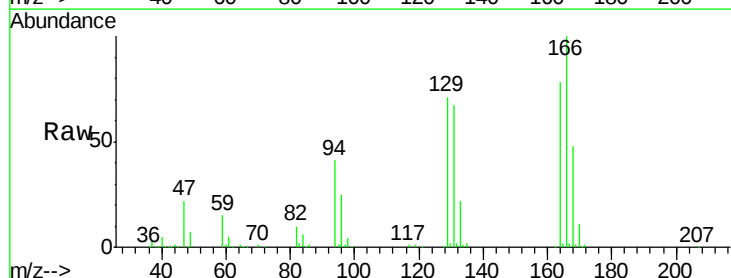
Abundance Ion 163.80 (163.50 to 164.50): V

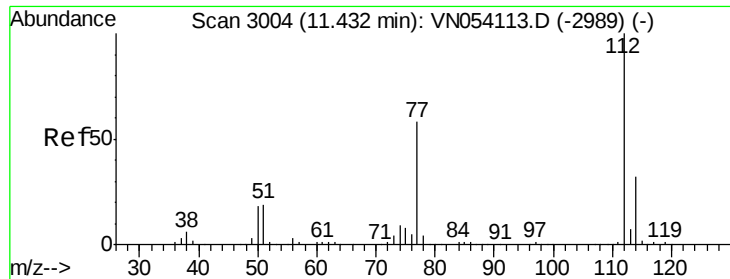
Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V

Time-->





#65

Chlorobenzene

Concen: 19.304 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN054123.D

Acq: 6 Mar 2019 18:13

Instrument :

MSVOA_N

ClientSampled :

VN0306WBSD01

Tot Ion:112 Resp: 361481

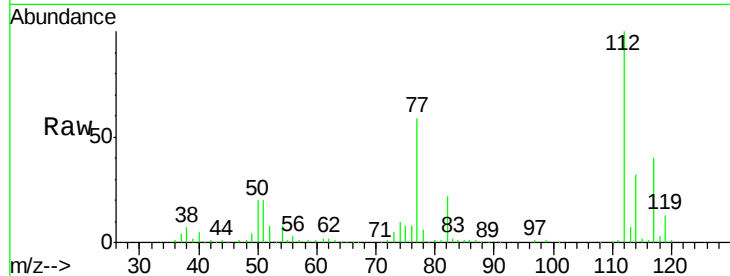
Ion Ratio Lower Upper

112 100

114 31.8 25.4 38.0

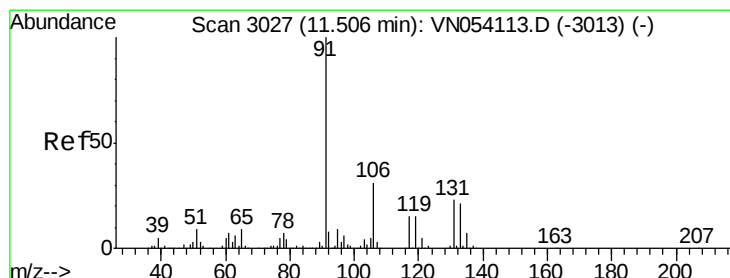
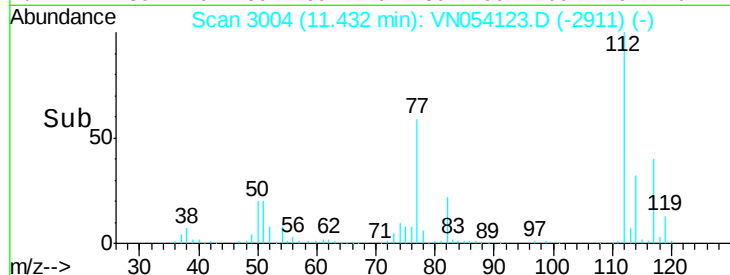
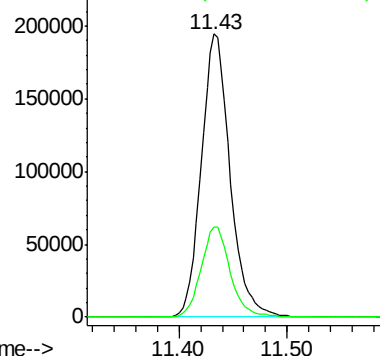
Manual Integrations
APPROVED

MMDadoda
3/7/2019 11:39:32 AM



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: 20.223 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN054123.D

Acq: 6 Mar 2019 18:13

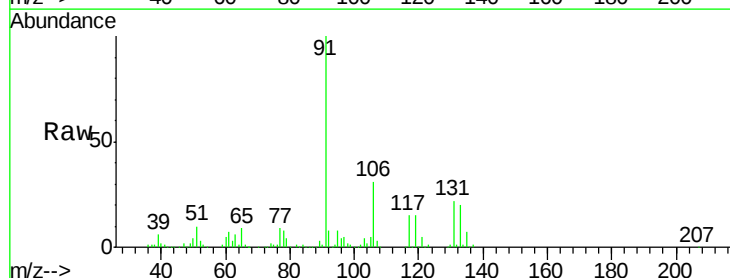
Tgt Ion:131 Resp: 135555

Ion Ratio Lower Upper

131 100

133 93.4 47.6 142.9

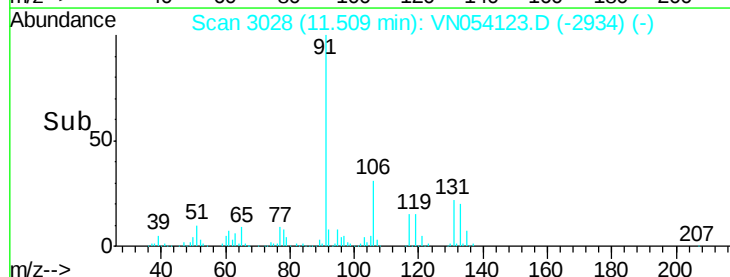
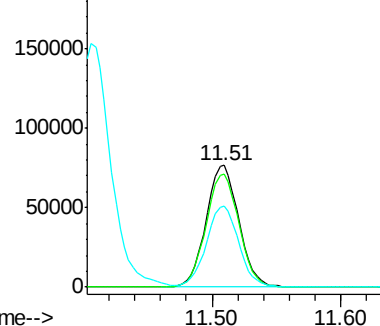
119 65.8 33.8 101.3

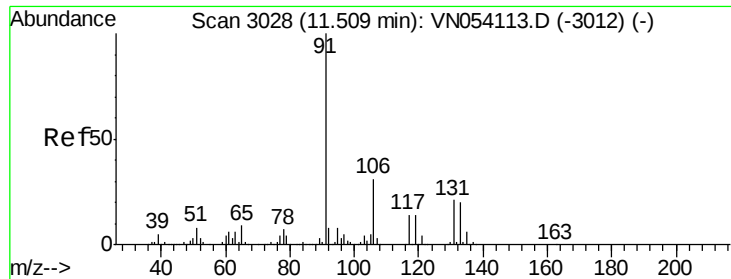


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





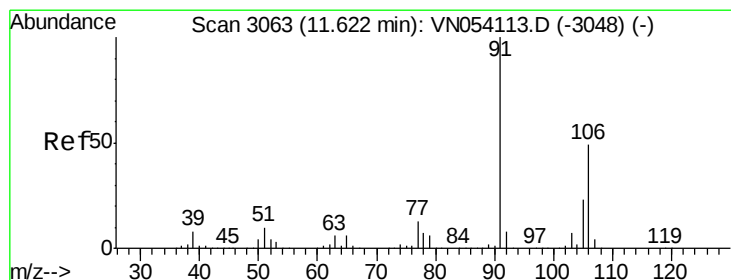
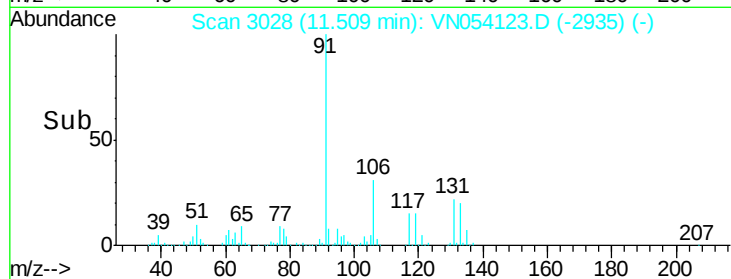
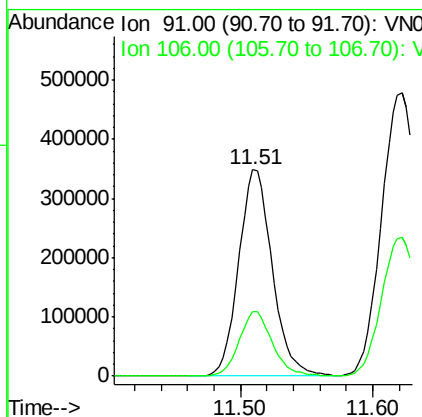
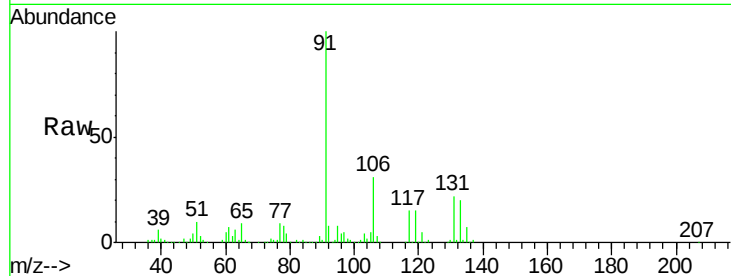
#67
Ethyl Benzene
Concen: 19.614 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN054123.D
Acq: 6 Mar 2019 18:13

Instrument :
MSVOA_N
ClientSampled :
VN0306WBSD01

Tot Ion: 91 Resp: 614586
Ion Ratio Lower Upper
91 100
106 31.2 24.6 36.8

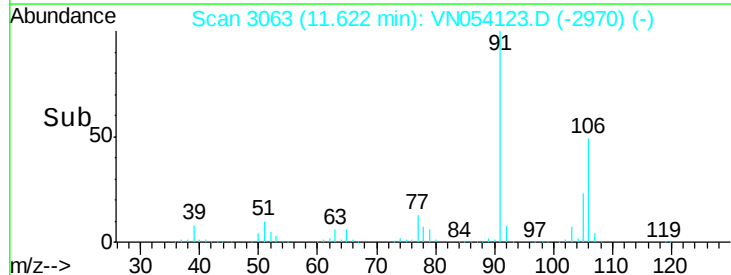
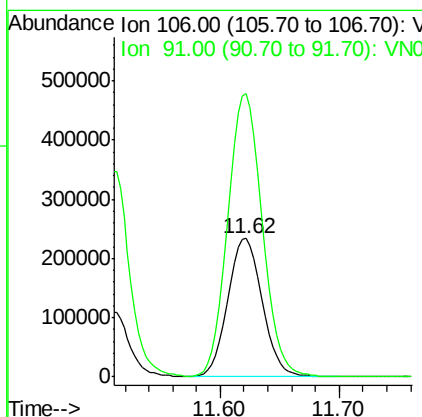
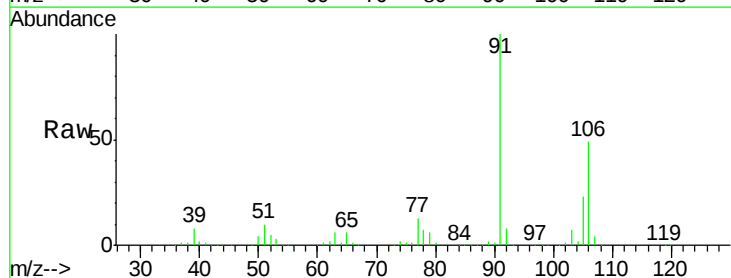
Manual Integrations
APPROVED

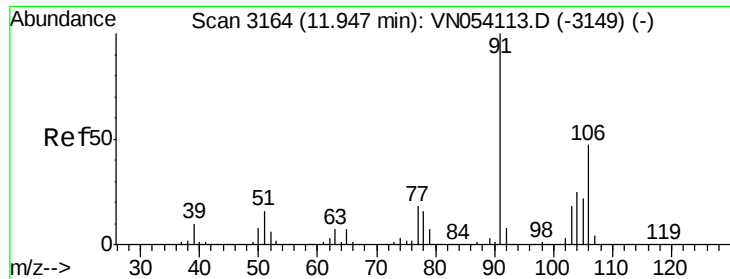
MMDadoda
3/7/2019 11:39:32 AM



#68
m/p-Xylenes
Concen: 39.818 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN054123.D
Acq: 6 Mar 2019 18:13

Tgt Ion: 106 Resp: 470847
Ion Ratio Lower Upper
106 100
91 204.6 163.2 244.8





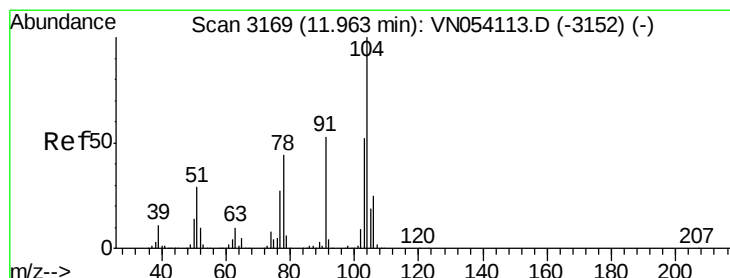
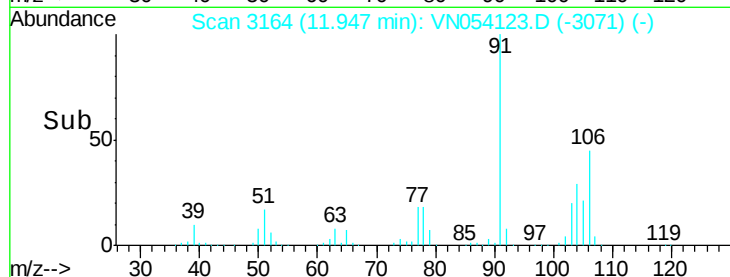
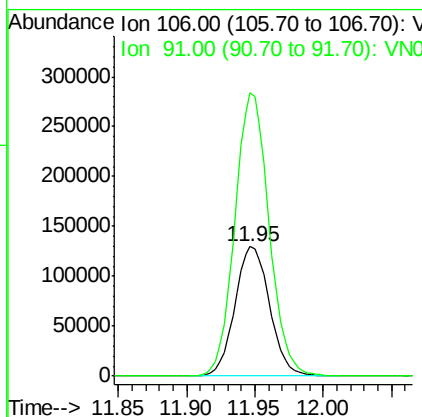
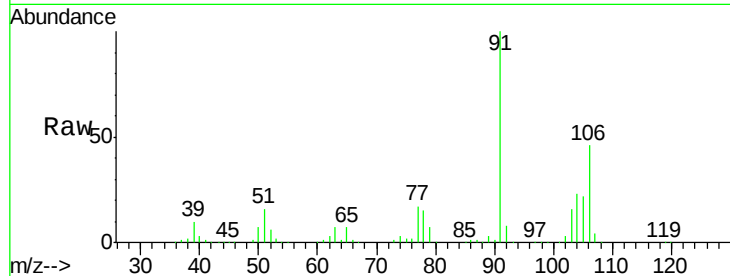
#69
o-Xylene
Concen: 20.202 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN054123.D
Acq: 6 Mar 2019 18:13

Instrument :
MSVOA_N
ClientSampled :
VN0306WBSD01

Tot Ion:106 Resp: 229878
Ion Ratio Lower Upper
106 100
91 214.8 107.1 321.3

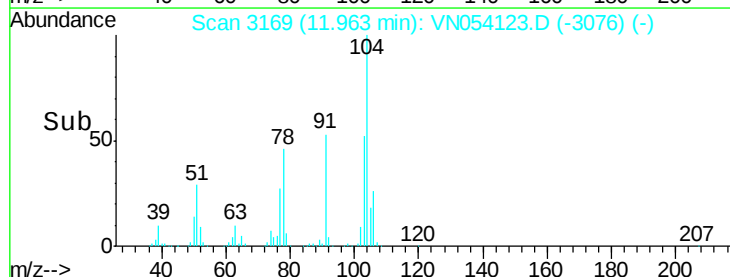
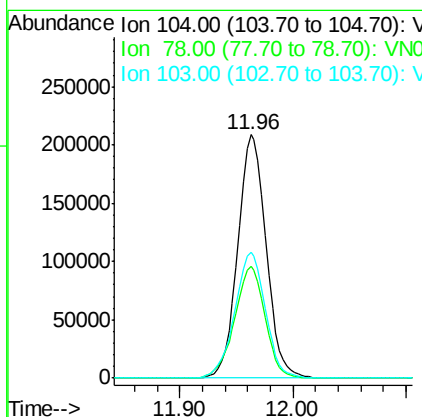
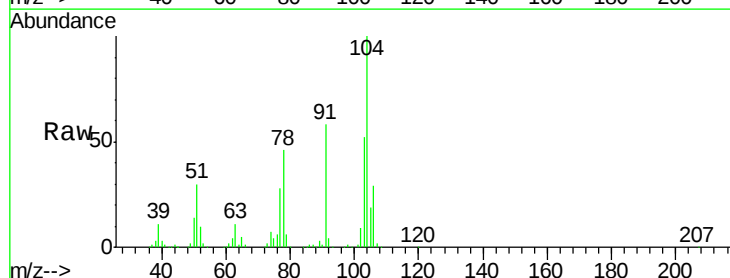
Manual Integrations
APPROVED

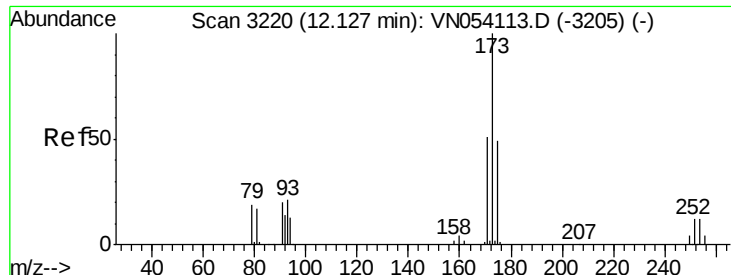
MMDadoda
3/7/2019 11:39:32 AM



#70
Styrene
Concen: 20.177 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN054123.D
Acq: 6 Mar 2019 18:13

Tgt Ion:104 Resp: 364448
Ion Ratio Lower Upper
104 100
78 49.5 39.4 59.0
103 56.1 44.7 67.1





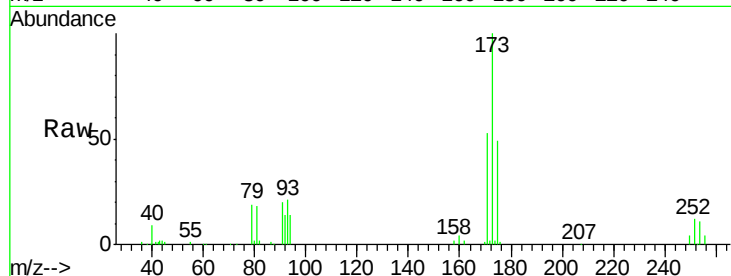
#71
Bromoform
Concen: 19.591 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN054123.D
Acq: 6 Mar 2019 18:13

Instrument :
MSVOA_N
ClientSampleId :
VN0306WBSD01

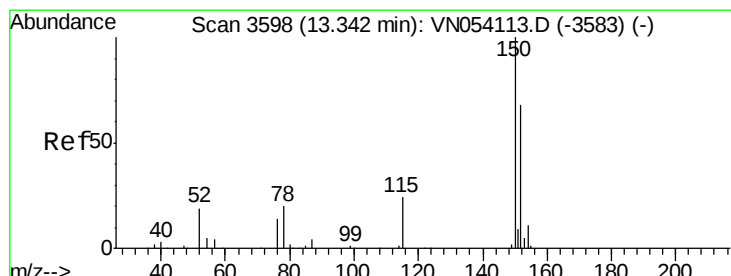
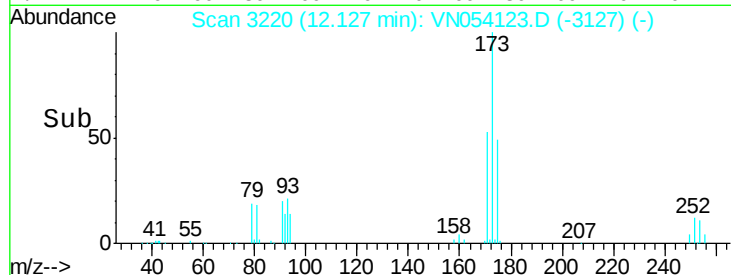
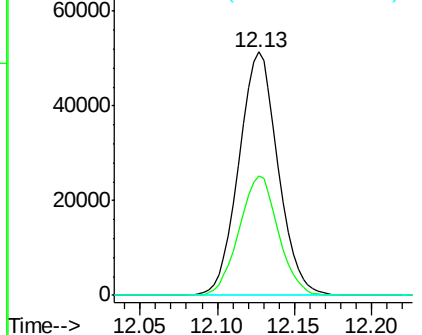
Tot Ion	Ratio	Lower	Upper
173	100		
175	49.0	24.1	72.2
254	0.0	0.0	0.0

Manual Integrations
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3/7/2019 11:39:32 AM

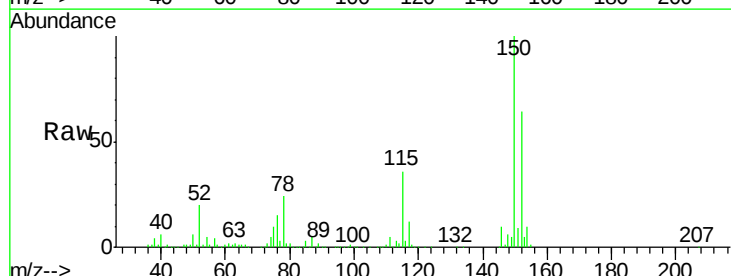


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

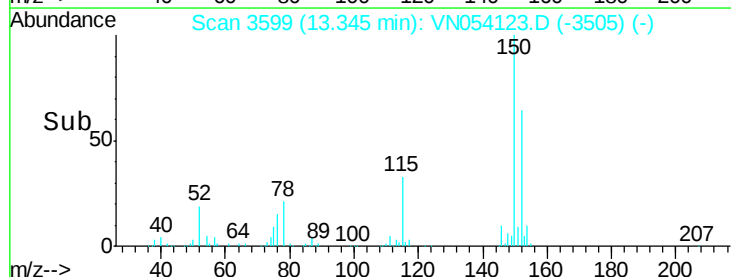
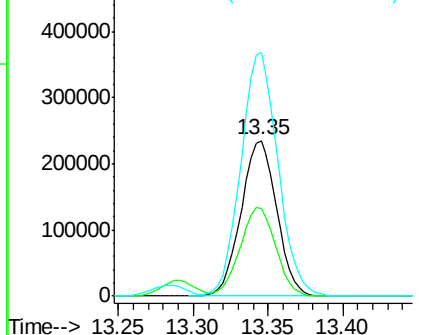


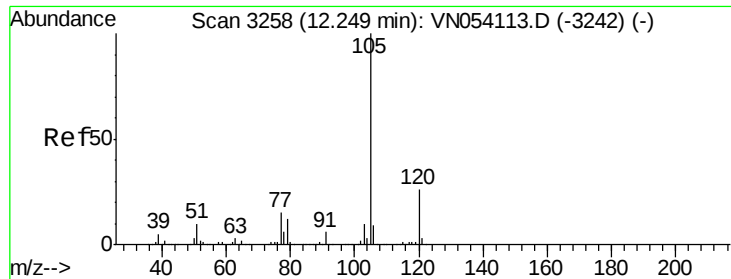
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN054123.D
Acq: 6 Mar 2019 18:13

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.3	28.5	85.6
150	163.1	0.0	343.2



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





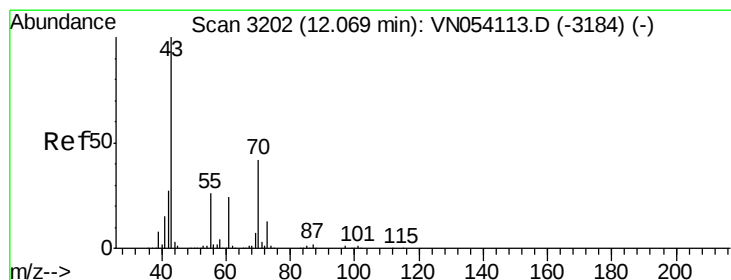
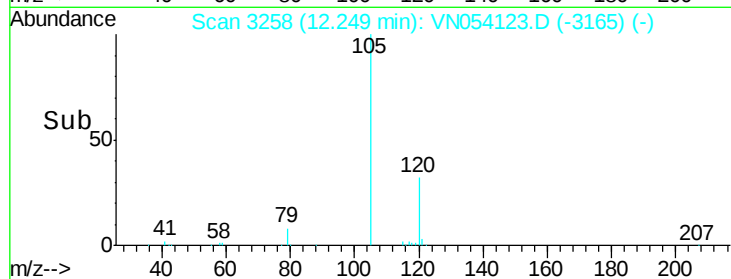
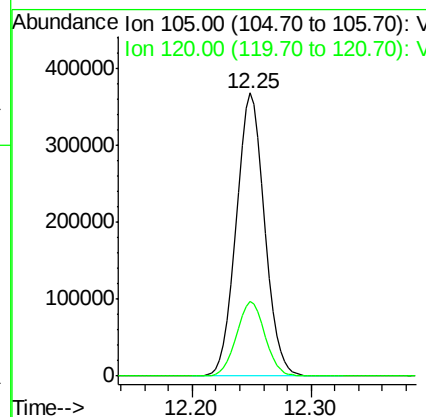
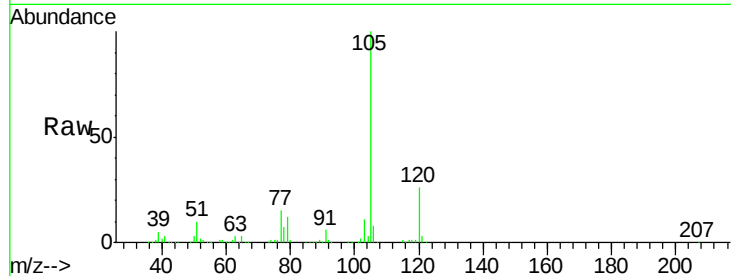
#73
Isopropylbenzene
Concen: 19.588 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN054123.D
Acq: 6 Mar 2019 18:13

Instrument :
MSVOA_N
ClientSampleId :
VN0306WBSD01

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.5	13.3	39.8

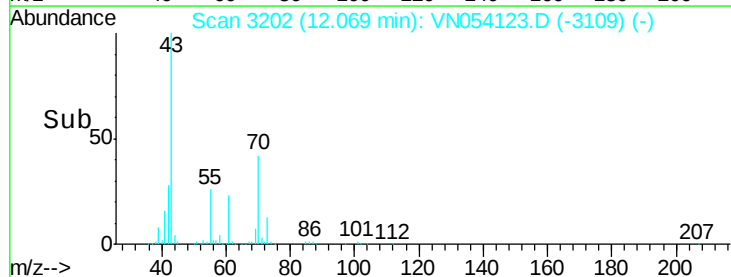
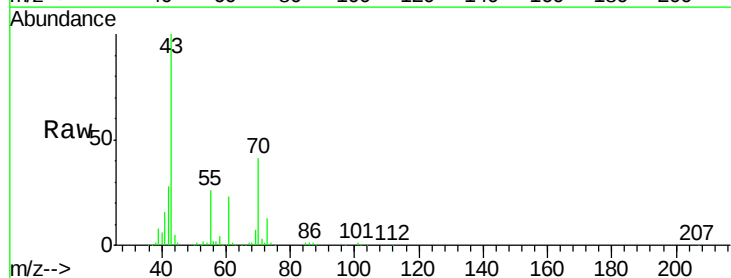
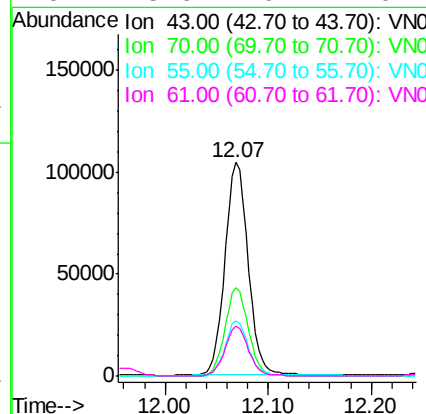
Manual Integrations
APPROVED

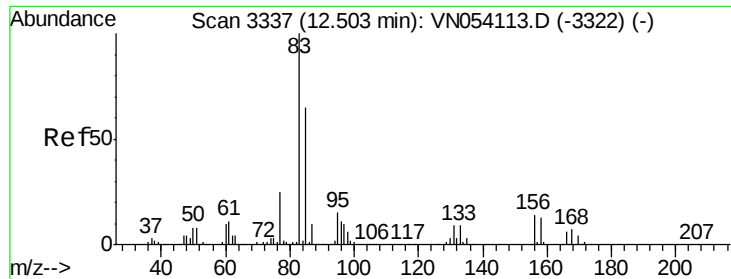
MMDadoda
3/7/2019 11:39:32 AM



#74
N-ethyl acetate
Concen: 20.004 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN054123.D
Acq: 6 Mar 2019 18:13

Tgt Ion	Ratio	Lower	Upper
43	100		
70	41.5	33.6	50.4
55	26.4	20.6	31.0
61	23.6	19.4	29.2





#75

1,1,2,2-Tetrachloroethane

Concen: 20.751 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN054123.D

Acq: 6 Mar 2019 18:13

Instrument :

MSVOA_N

ClientSampleId :

VN0306WBSD01

Tot Ion: 83 Resp: 151017
Ion Ratio Lower Upper

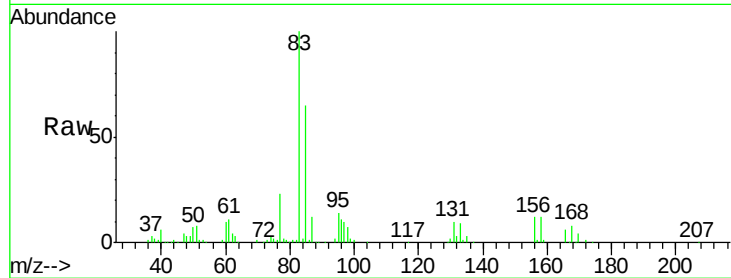
83 100

131 10.3 5.0 14.9

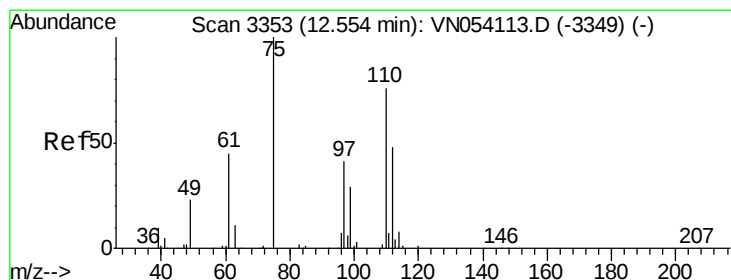
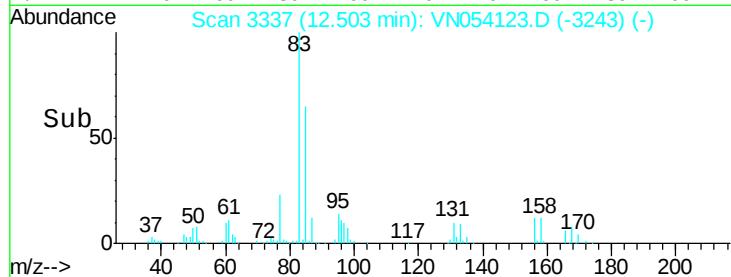
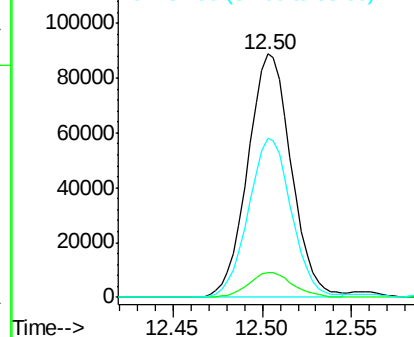
85 64.7 32.4 97.0

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Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 130.80 (130.50 to 131.50): V
Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 19.172 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

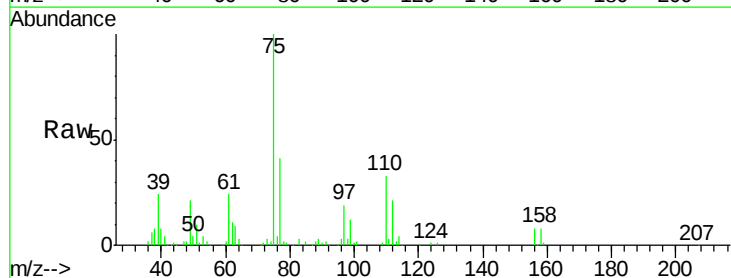
Lab File: VN054123.D

Acq: 6 Mar 2019 18:13

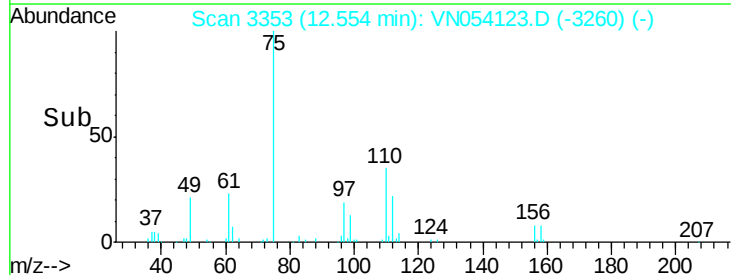
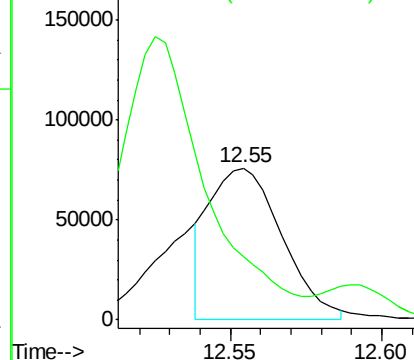
Tgt Ion: 75 Resp: 127180
Ion Ratio Lower Upper

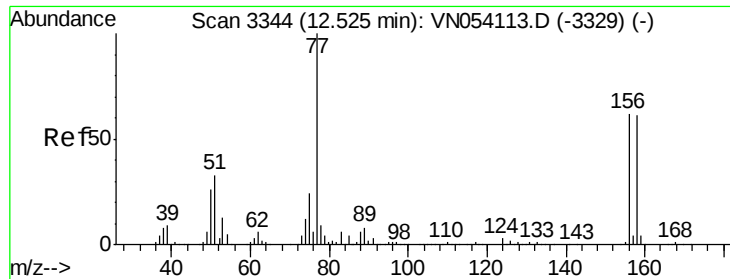
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 77.00 (76.70 to 77.70): VN0





#77

Bromobenzene

Concen: 20.495 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN054123.D

Acq: 6 Mar 2019 18:13

Instrument :

MSVOA_N

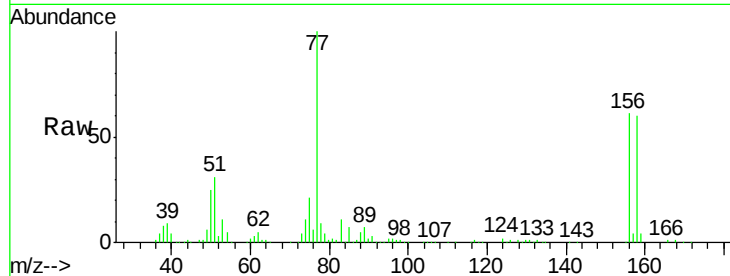
ClientSampled :

VN0306WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100				
77	188.8		93.6	280.8	
158	97.0		48.4	145.0	

Manual Integrations
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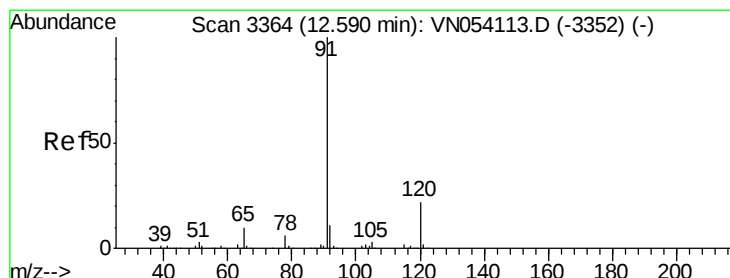
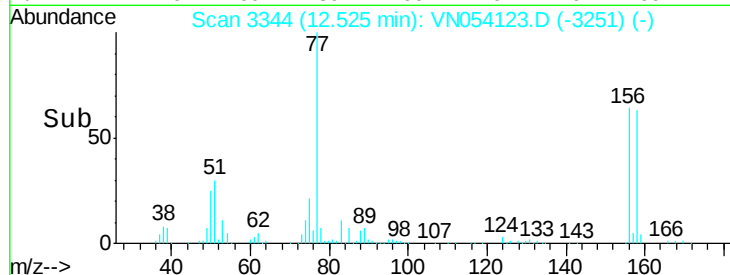
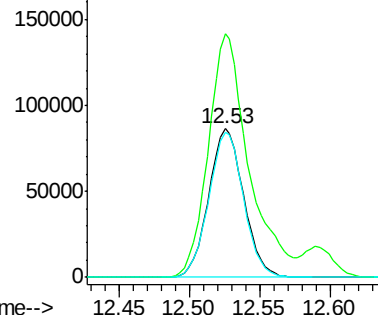
MMDadoda
3/7/2019 11:39:32 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 19.811 ug/l

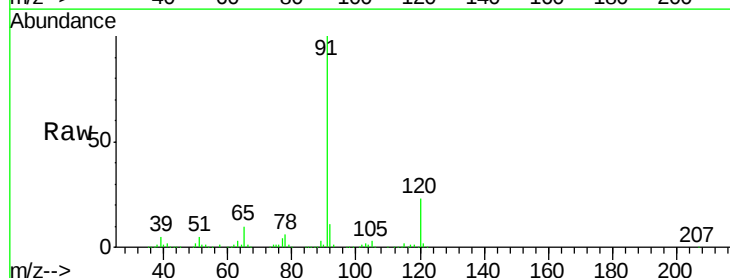
RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN054123.D

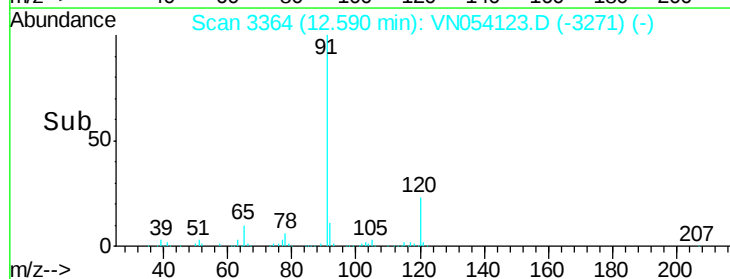
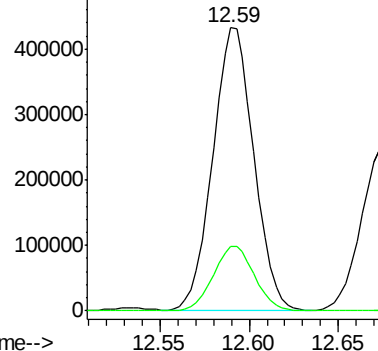
Acq: 6 Mar 2019 18:13

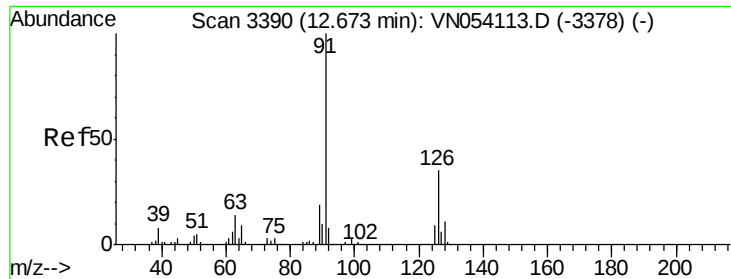
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100				
120	23.3		11.3	33.9	



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 19.868 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN054123.D

Acq: 6 Mar 2019 18:13

Instrument :

MSVOA_N

ClientSampled :

VN0306WBSD01

Tot Ion: 91 Resp: 420551

Ion Ratio Lower Upper

91 100

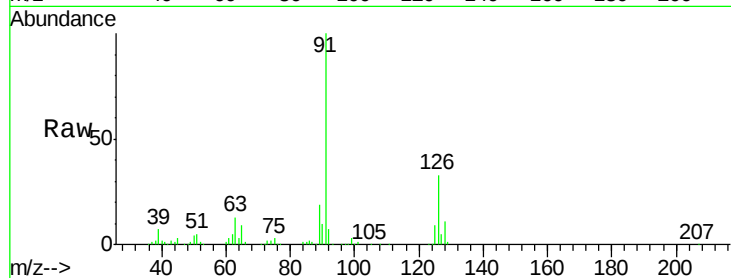
126 33.7 17.4 52.2

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Abundance Ion 91.00 (90.70 to 91.70): VN054113.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN054113.D (-3378) (-)

400000

300000

200000

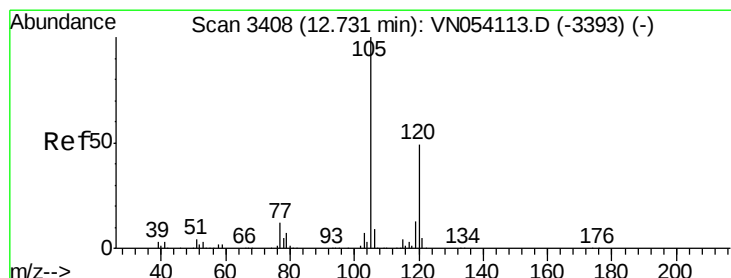
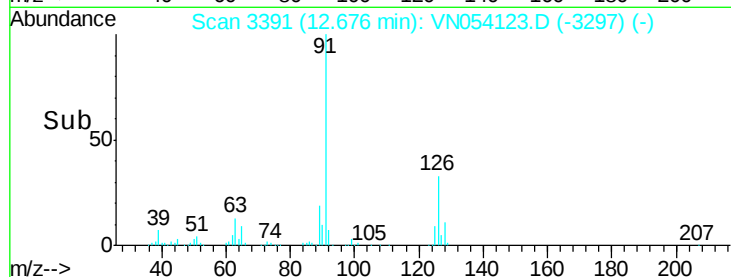
100000

0

12.60 12.65 12.70

12.68

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 20.048 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN054123.D

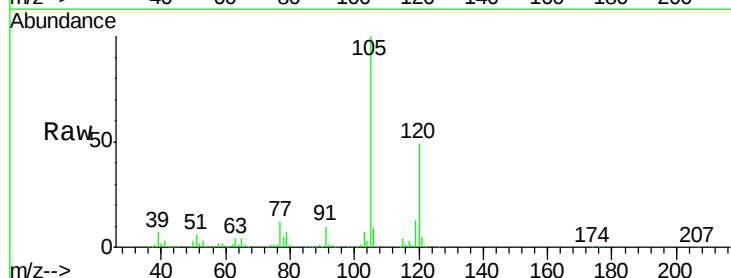
Acq: 6 Mar 2019 18:13

Tgt Ion:105 Resp: 504766

Ion Ratio Lower Upper

105 100

120 48.7 24.6 73.8



Abundance Ion 105.00 (104.70 to 105.70): VN054113.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN054113.D (-3393) (-)

300000

200000

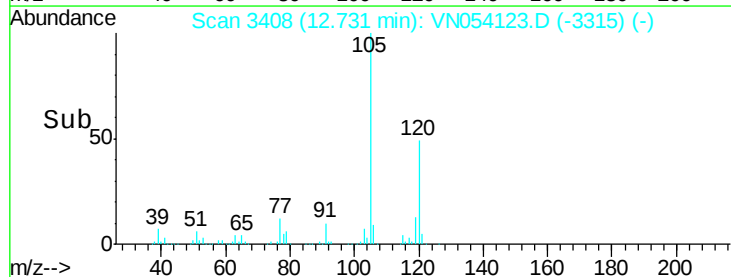
100000

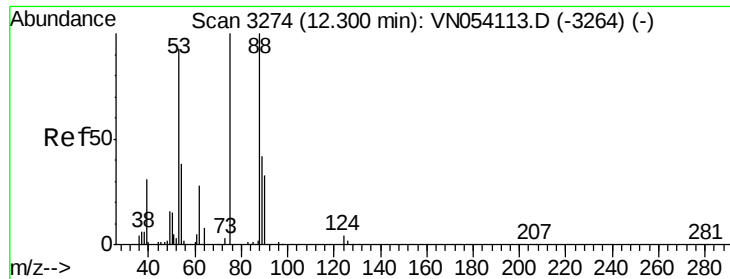
0

12.70 12.80

12.73

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 19.287 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN054123.D

Acq: 6 Mar 2019 18:13

Instrument :

MSVOA_N

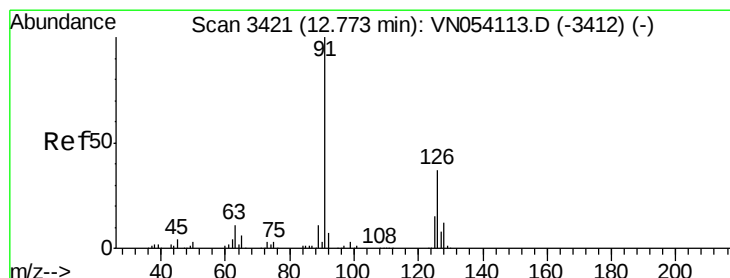
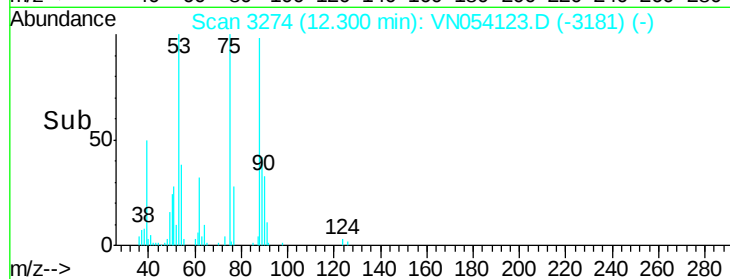
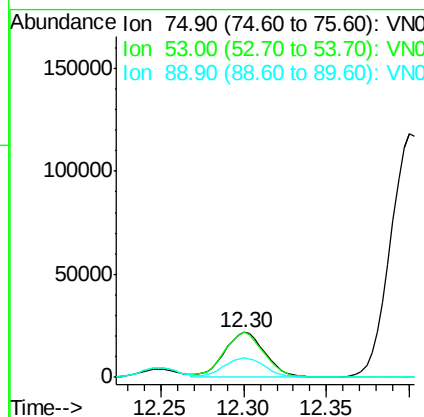
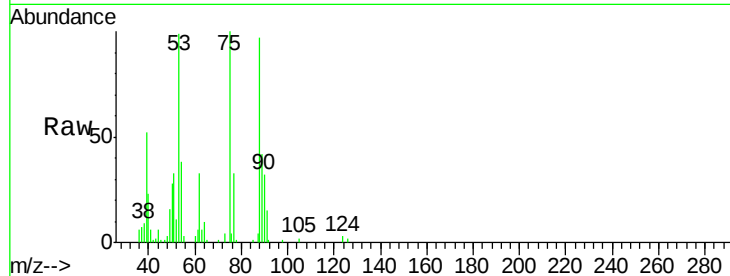
ClientSampleId :

VN0306WBSD01

Tot Ion:	75	Resp:	37256
Ion	Ratio	Lower	Upper
75	100		
53	98.2	76.4	114.6
89	43.1	35.3	52.9

Manual Integrations
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#82

4-Chlorotoluene

Concen: 19.420 ug/l

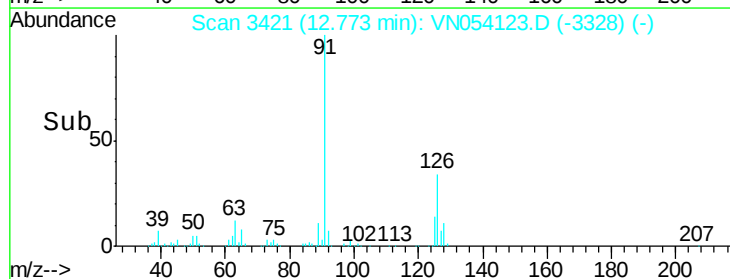
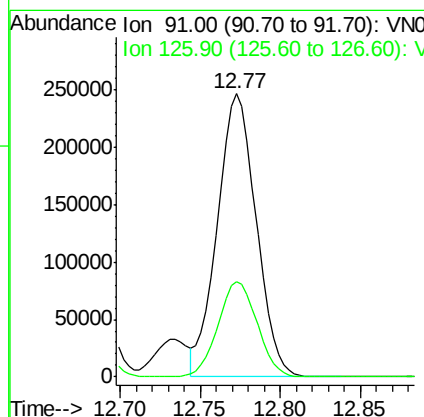
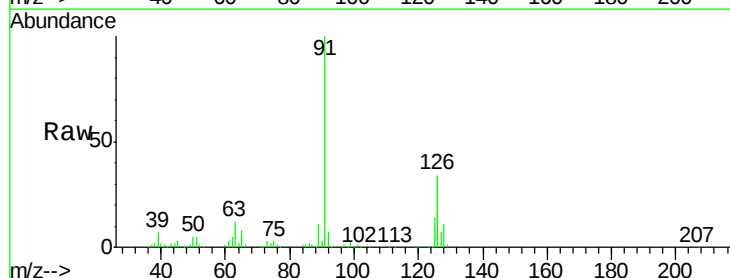
RT: 12.77 min Scan# 3421

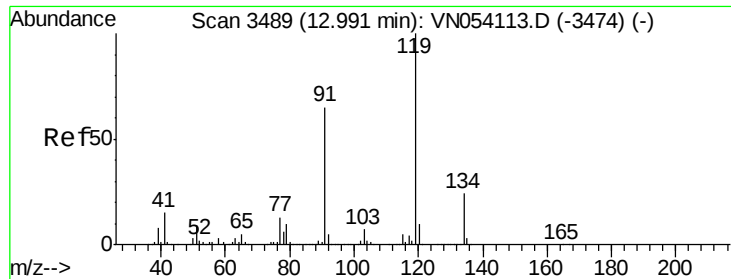
Delta R.T. 0.00 min

Lab File: VN054123.D

Acq: 6 Mar 2019 18:13

Tgt Ion:	91	Resp:	409777
Ion	Ratio	Lower	Upper
91	100		
126	34.0	17.1	51.3





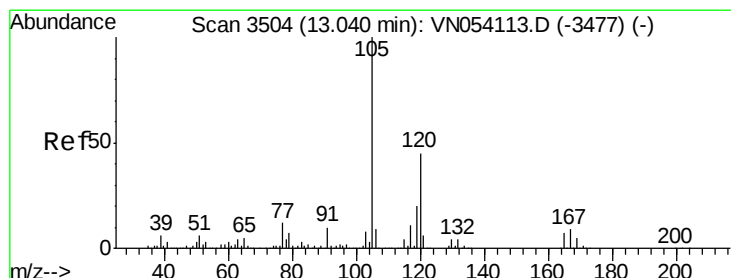
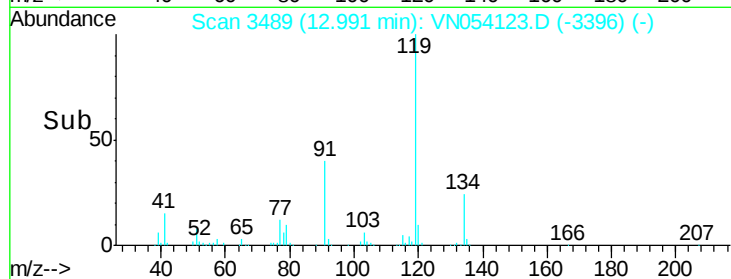
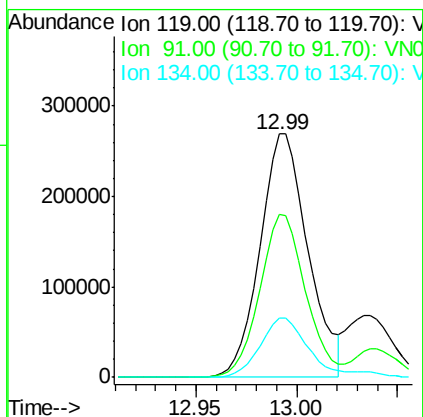
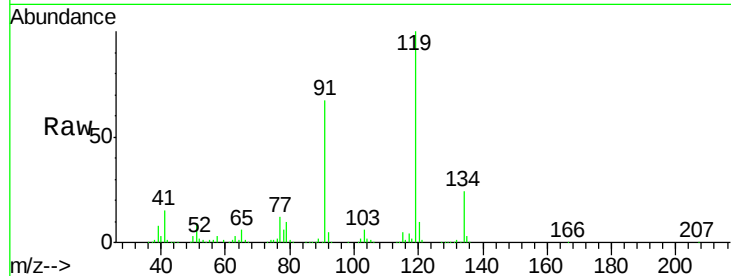
#83
tert-Butylbenzene
Concen: 20.040 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN054123.D
Acq: 6 Mar 2019 18:13

Instrument :
MSVOA_N
ClientSampled :
VN0306WBSD01

Tot Ion	Ratio	Lower	Upper
119	100		
91	64.2	31.8	95.3
134	25.4	12.8	38.3

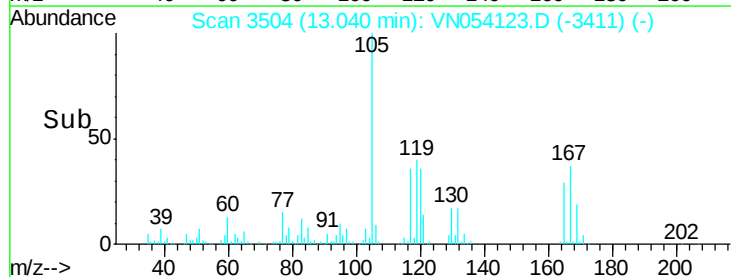
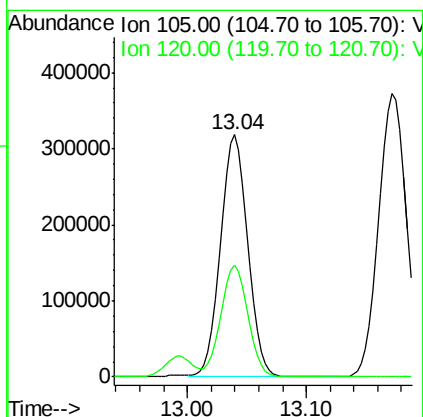
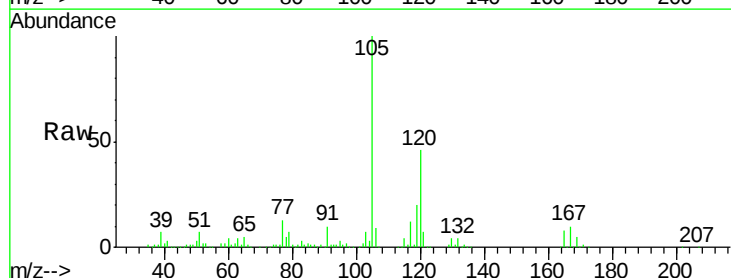
Manual Integrations
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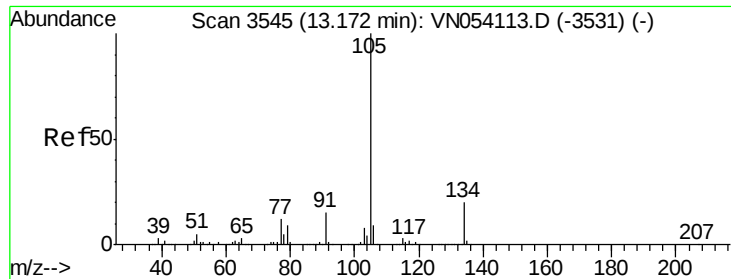
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#84
1,2,4-Trimethylbenzene
Concen: 20.175 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN054123.D
Acq: 6 Mar 2019 18:13

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.0	22.6	67.7





#85

sec-Butylbenzene

Concen: 19.973 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN054123.D

Acq: 6 Mar 2019 18:13

Instrument :

MSVOA_N

ClientSampled :

VN0306WBSD01

Tot Ion:105 Resp: 604339

Ion Ratio Lower Upper

105 100

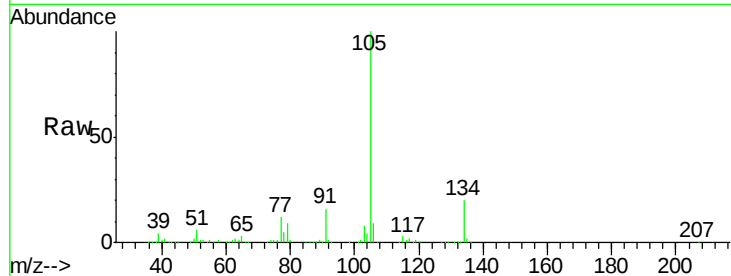
134 19.4 9.8 29.5

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

400000

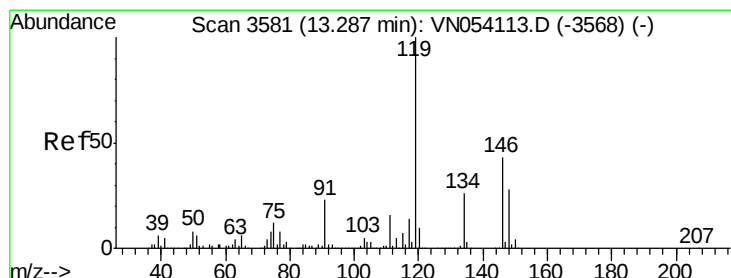
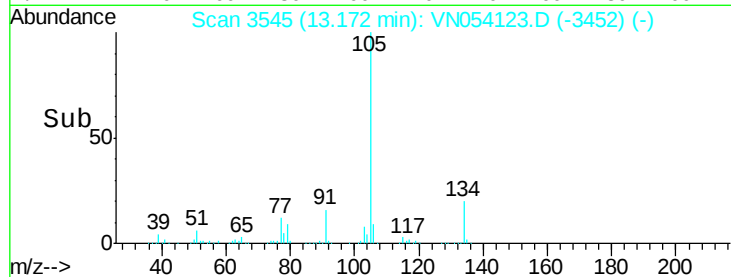
300000

200000

100000

0

Time--> 13.10 13.15 13.20 13.25



#86

p-Isopropyltoluene

Concen: 19.849 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN054123.D

Acq: 6 Mar 2019 18:13

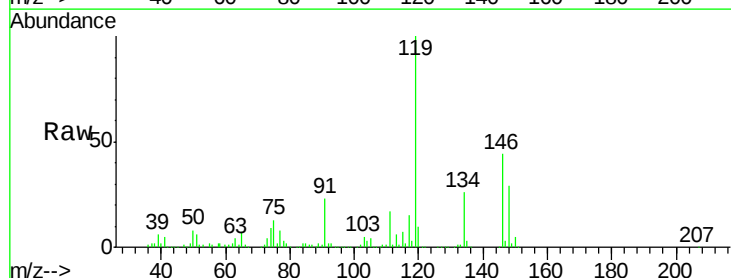
Tgt Ion:119 Resp: 504912

Ion Ratio Lower Upper

119 100

134 26.6 13.2 39.5

91 23.5 11.4 34.2



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

13.29

400000

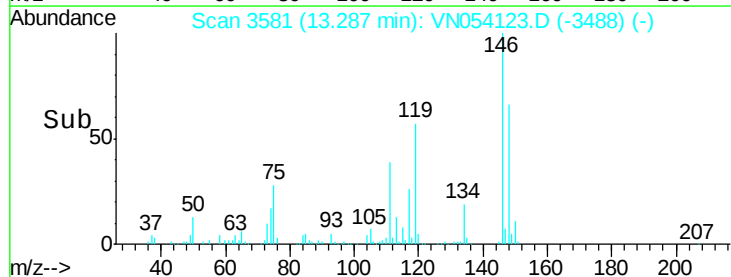
300000

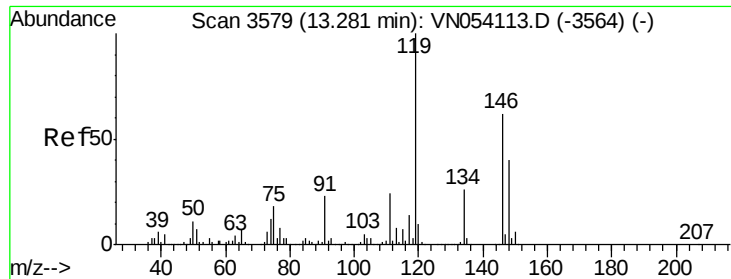
200000

100000

0

Time--> 13.25 13.30 13.35





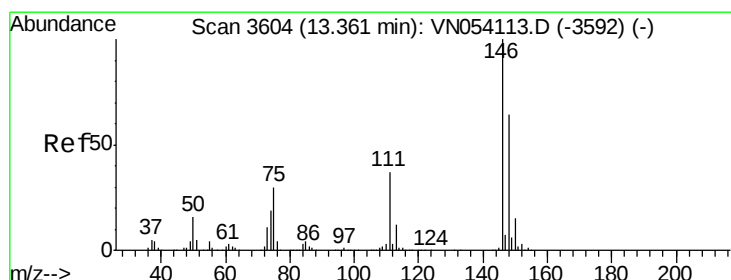
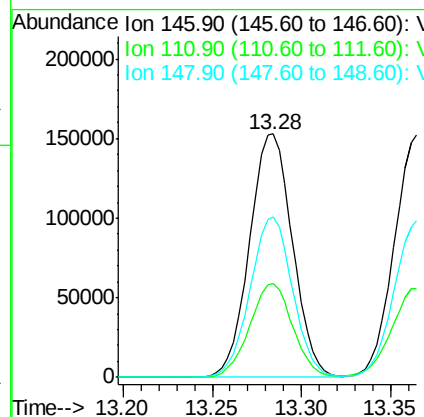
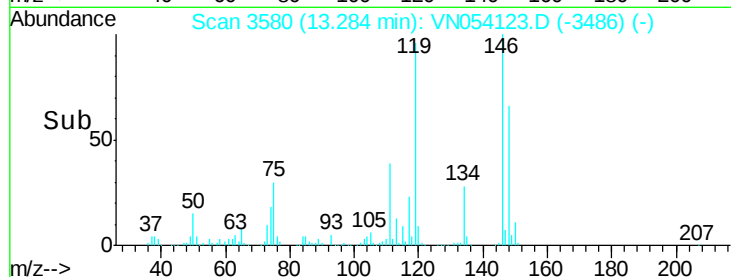
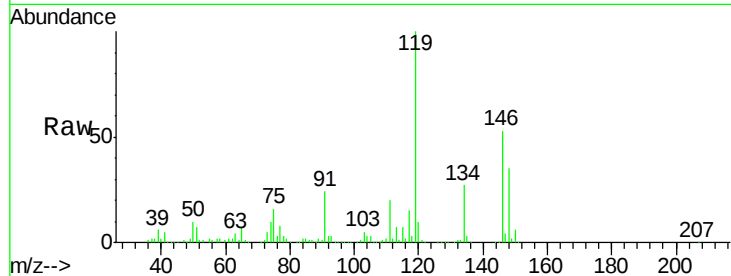
#87
 1,3-Dichlorobenzene
 Concen: 18.947 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN054123.D
 Acq: 6 Mar 2019 18:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0306WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.8	19.3	57.8
148	65.2	32.4	97.0

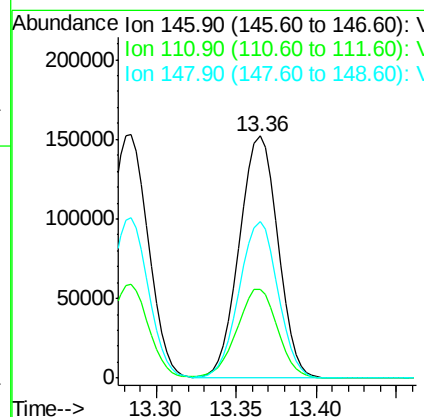
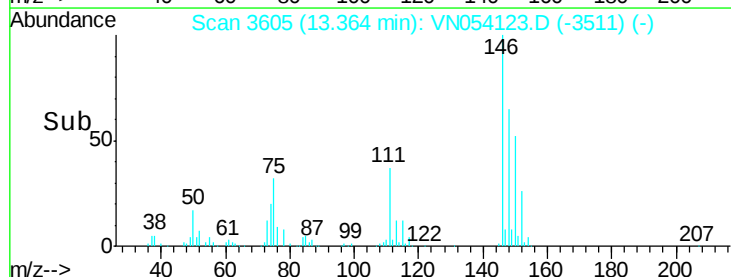
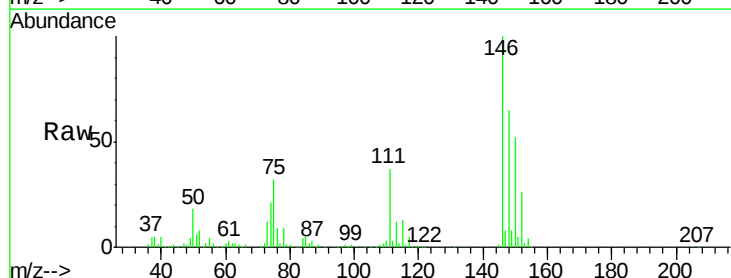
Manual Integrations
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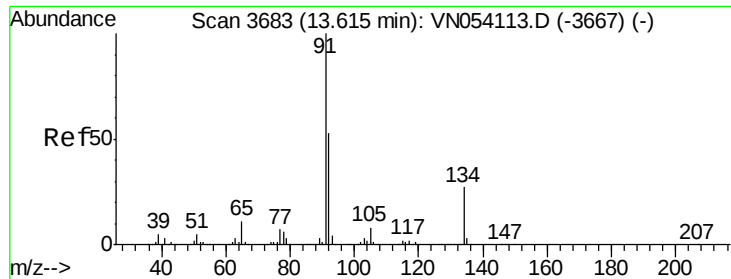
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 3/7/2019 11:39:32 AM



#88
 1,4-Dichlorobenzene
 Concen: 18.628 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN054123.D
 Acq: 6 Mar 2019 18:13

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.9	18.9	56.5
148	64.9	32.1	96.5





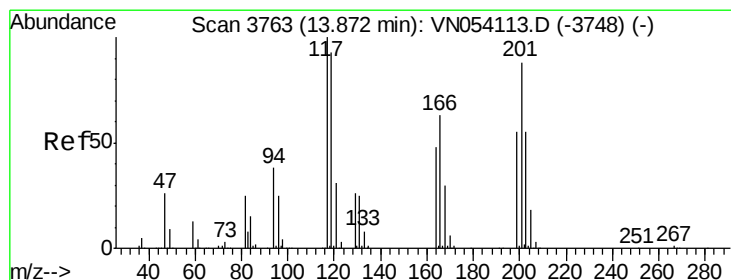
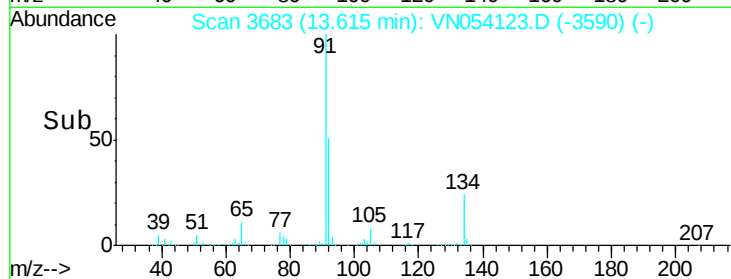
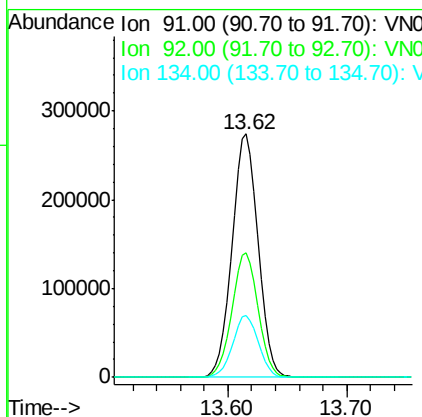
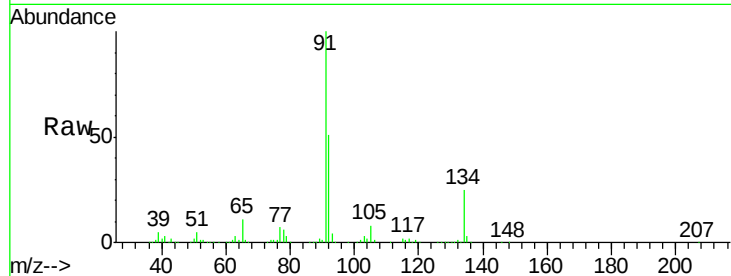
#89
n-Butylbenzene
Concen: 19.350 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VN054123.D
Acq: 6 Mar 2019 18:13

Instrument :
MSVOA_N
ClientSampleId :
VN0306WBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.4	26.0	78.0
134	25.2	13.1	39.1

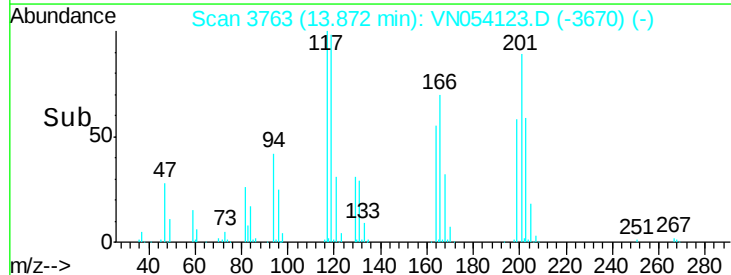
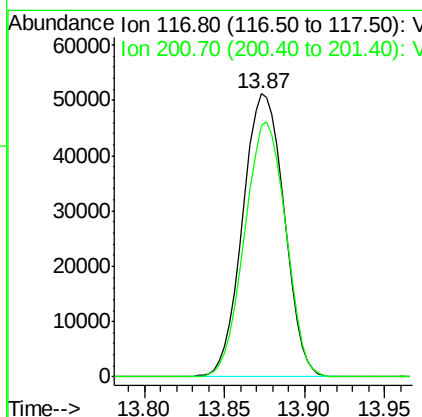
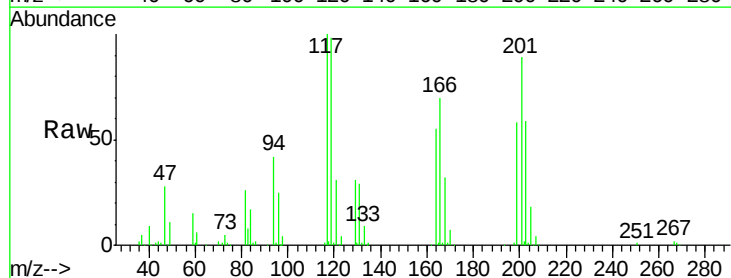
Manual Integrations
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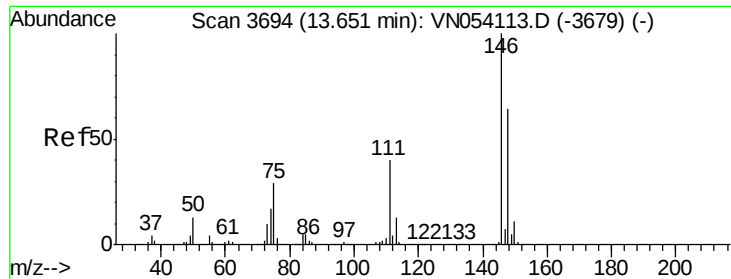
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#90
Hexachloroethane
Concen: 18.602 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN054123.D
Acq: 6 Mar 2019 18:13

Tgt Ion	Ratio	Lower	Upper
117	100		
201	89.5	44.9	134.7





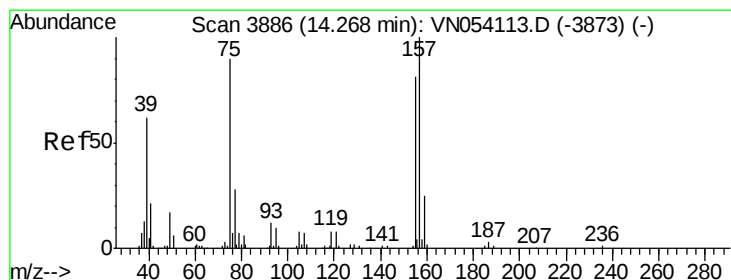
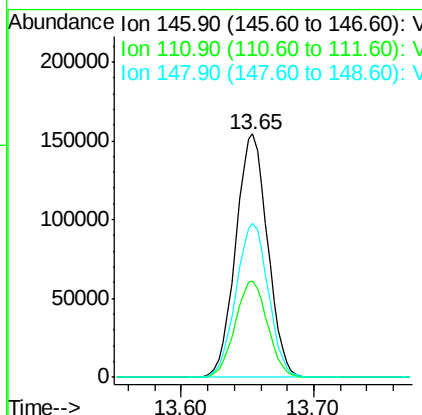
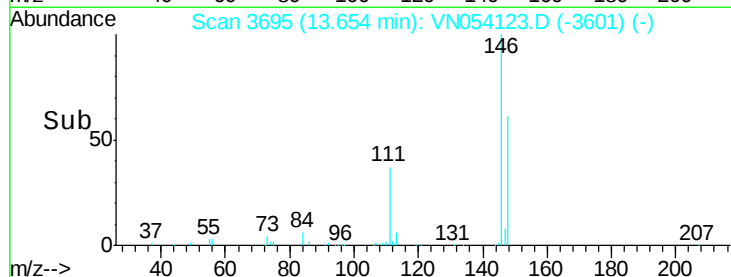
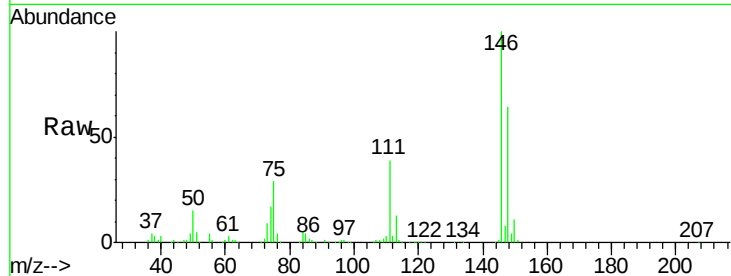
#91
 1,2-Dichlorobenzene
 Concen: 20.424 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN054123.D
 Acq: 6 Mar 2019 18:13

Instrument :
 MSVOA_N
 ClientSampled :
 VN0306WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.0	20.0	60.0
148	64.2	32.3	96.9

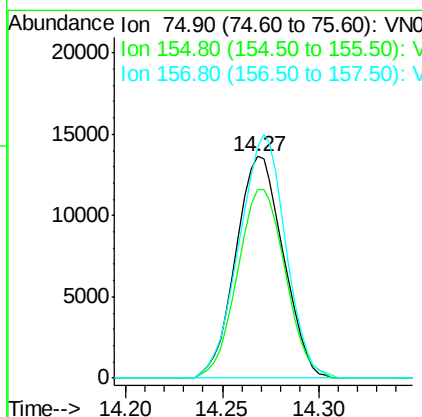
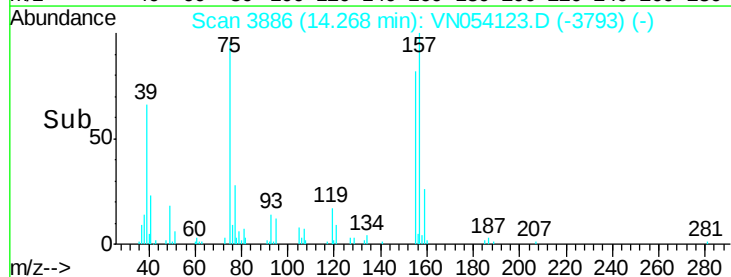
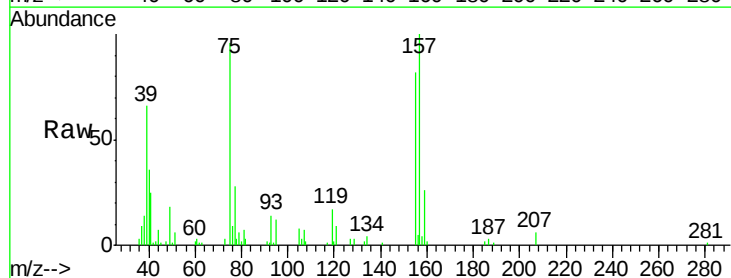
Manual Integrations
 APPROVED

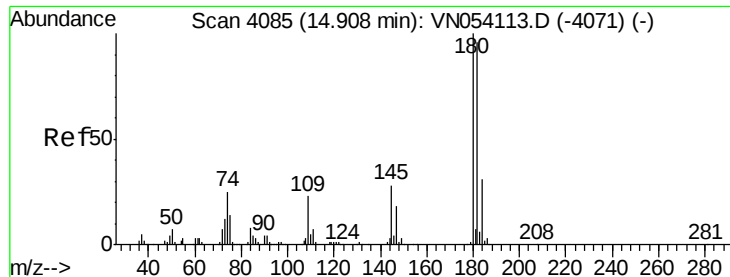
MMDadoda
 3/7/2019 11:39:32 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.542 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN054123.D
 Acq: 6 Mar 2019 18:13

Tgt Ion	Ratio	Lower	Upper
75	100		
155	85.8	44.5	133.5
157	107.9	57.2	171.6





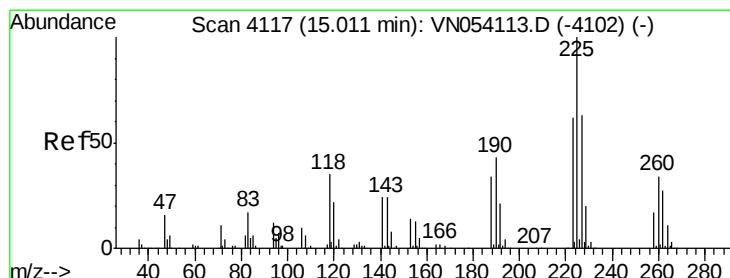
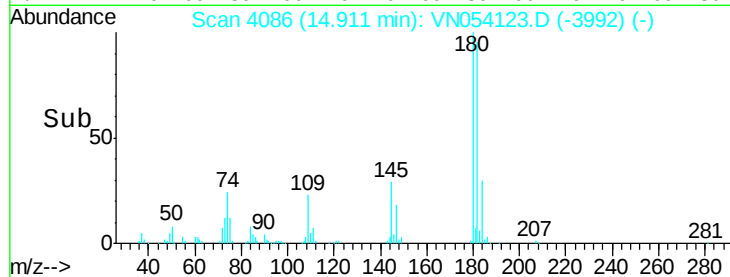
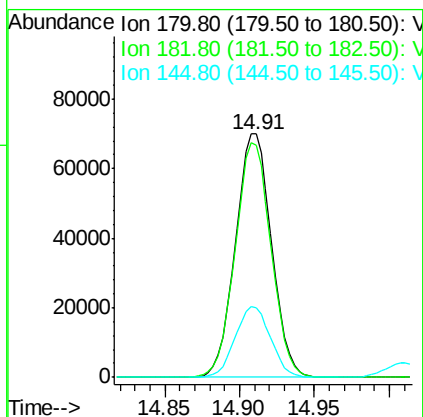
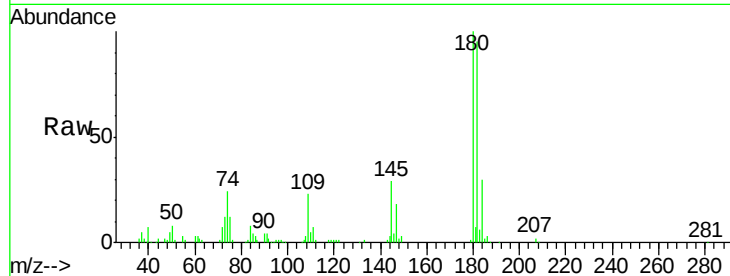
#93
 1,2,4-Trichlorobenzene
 Concen: 18.232 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN054123.D
 Acq: 6 Mar 2019 18:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0306WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	117435		
182	95.5	48.1	144.3	
145	28.5	13.9	41.7	

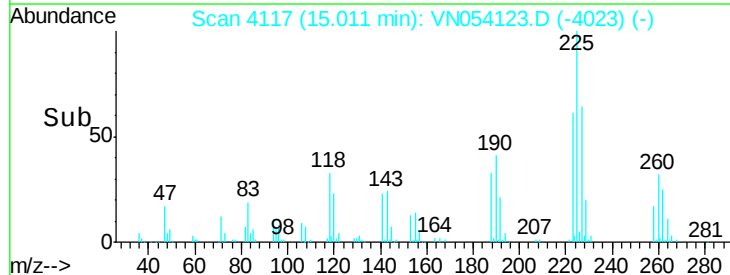
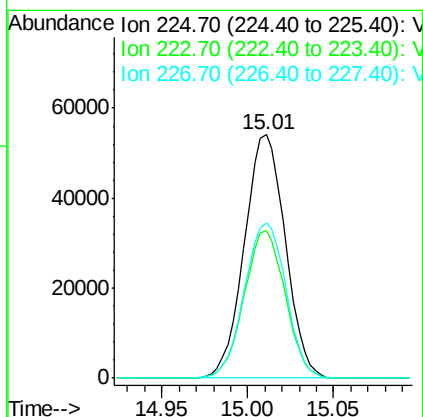
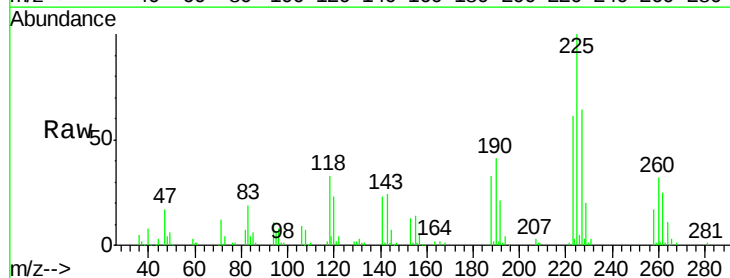
Manual Integrations
 APPROVED

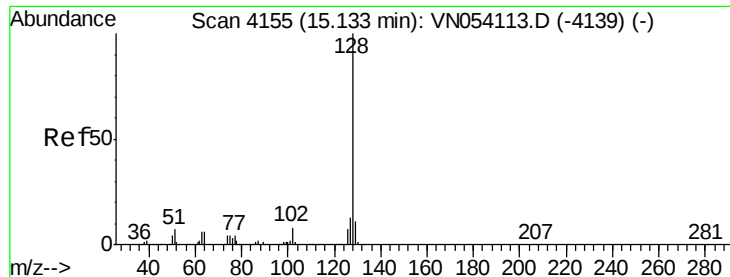
MMDadoda
 3/7/2019 11:39:32 AM



#94
 Hexachlorobutadiene
 Concen: 20.777 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN054123.D
 Acq: 6 Mar 2019 18:13

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	89597		
223	60.5	31.2	93.6	
227	64.5	31.9	95.7	





#95

Naphthalene

Concen: 19.019 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054123.D

Acq: 6 Mar 2019 18:13

Instrument :

MSVOA_N

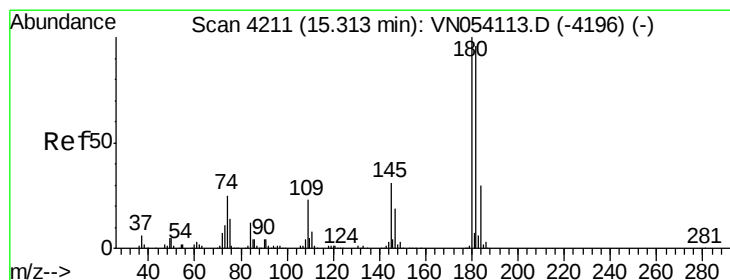
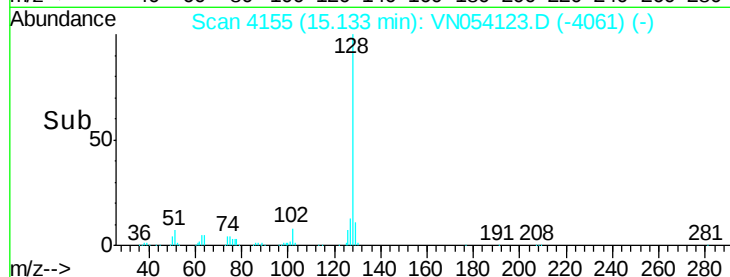
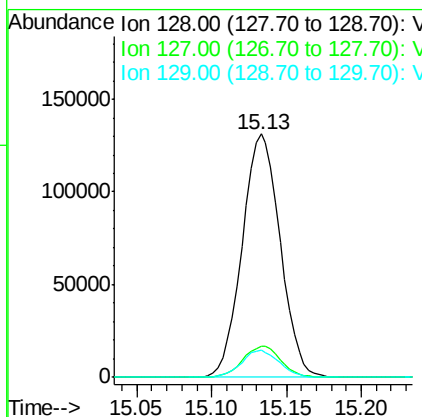
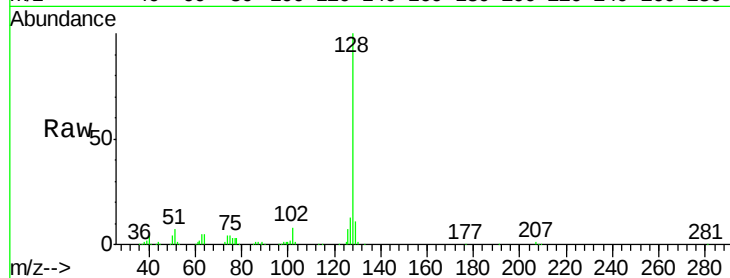
ClientSampled :

VN0306WBSD01

Tot Ion:	128	Resp:	232343
Ion Ratio	Lower	Upper	
128	100		
127	12.9	10.4	15.6
129	11.0	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
3/7/2019 11:39:32 AM



#96

1,2,3-Trichlorobenzene

Concen: 19.828 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN054123.D

Acq: 6 Mar 2019 18:13

Tgt Ion:	180	Resp:	118251
Ion Ratio	Lower	Upper	
180	100		
182	96.6	47.9	143.7
145	30.2	14.9	44.5

