

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030619\
 Data File : VN054114.D
 Acq On : 6 Mar 2019 11:56
 Operator : JC/SP
 Sample : VSTDICC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 3/7/2019 11:38:11 AM

Quant Time: Mar 07 06:15:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N030619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 07 05:44:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	670933	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1061467	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	941967	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	439158	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	779184	96.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	193.40%	
35) Dibromofluoromethane	7.59	113	684674	99.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	198.62%	
50) Toluene-d8	10.09	98	2634119	100.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	201.24%	
62) 4-Bromofluorobenzene	12.40	95	884287	103.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	207.50%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.84	85	586462	90.949	ug/l	98
3) Chloromethane	2.06	50	806473	87.281	ug/l	100
4) Vinyl Chloride	2.18	62	808127	92.501	ug/l	100
5) Bromomethane	2.56	94	452274	79.840	ug/l	100
6) Chloroethane	2.70	64	480508	90.741	ug/l	100
7) Trichlorofluoromethane	3.01	101	999897	93.681	ug/l	100
8) Diethyl Ether	3.41	74	403321	94.831	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.76	101	622878	89.702	ug/l	98
10) Methyl Iodide	3.95	142	852994	115.752	ug/l	100
11) Tert butyl alcohol	4.77	59	270806	552.428	ug/l	99
12) 1,1-Dichloroethene	3.73	96	611350	94.378	ug/l	99
13) Acrolein	3.60	56	254349	589.978	ug/l	100
14) Allyl chloride	4.32	41	1168666	100.127	ug/l	99
15) Acrylonitrile	4.98	53	1352266	488.719	ug/l	99
16) Acetone	3.81	43	1112267	446.162	ug/l	98
17) Carbon Disulfide	4.05	76	1877058	88.839	ug/l	100
18) Methyl Acetate	4.32	43	581350	91.469	ug/l	100
19) Methyl tert-butyl Ether	5.04	73	1799524	98.986	ug/l	100
20) Methylene Chloride	4.55	84	701609	88.568	ug/l	99
21) trans-1,2-Dichloroethene	5.04	96	664721	93.474	ug/l	99
22) Diisopropyl ether	5.95	45	2325170	102.243	ug/l	100
23) Vinyl Acetate	5.89	43	8499773	526.164	ug/l	100
24) 1,1-Dichloroethane	5.85	63	1290313	94.833	ug/l	100
25) 2-Butanone	6.83	43	1628924	493.328	ug/l	99
26) 2,2-Dichloropropane	6.82	77	956149	97.498	ug/l	99
27) cis-1,2-Dichloroethene	6.82	96	762576	96.166	ug/l	99
28) Bromochloromethane	7.19	49	650640	95.807	ug/l	99
29) Tetrahydrofuran	7.21	42	1065944	492.527	ug/l	99
30) Chloroform	7.37	83	1239856	95.102	ug/l	99
31) Cyclohexane	7.65	56	1215194	82.260	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	1047019	96.866	ug/l	99
36) 1,1-Dichloropropene	7.79	75	985608	98.925	ug/l	98
37) Ethyl Acetate	6.92	43	684700	95.856	ug/l	99
38) Carbon Tetrachloride	7.77	117	925335	97.288	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	1161564	101.021	ug/l	99
40) Benzene	8.04	78	2930812	99.429	ug/l	99
41) Methacrylonitrile	7.17	41	372980	85.892	ug/l #	100
42) 1,2-Dichloroethane	8.12	62	907728	97.216	ug/l	100
43) Isopropyl Acetate	8.16	43	1182208	106.487	ug/l	100
44) Trichloroethene	8.83	130	757903	95.890	ug/l	94
45) 1,2-Dichloropropane	9.12	63	787932	96.912	ug/l	98
46) Dibromomethane	9.21	93	457329	98.537	ug/l	99
47) Bromodichloromethane	9.40	83	972535	100.102	ug/l	99
48) Methyl methacrylate	9.20	41	608402	110.977	ug/l	97
49) 1,4-Dioxane	9.20	88	164476	2270.404	ug/l	98
51) 4-Methyl-2-Pentanone	9.98	43	3360594	528.348	ug/l	100
52) Toluene	10.16	92	1762518	100.927	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	1022036	106.655	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	1180120	104.199	ug/l	100
55) 1,1,2-Trichloroethane	10.56	97	640315	97.370	ug/l	99
56) Ethyl methacrylate	10.43	69	867911	112.428	ug/l	100
57) 1,3-Dichloropropane	10.71	76	1119137	99.743	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.69	63	1988658	562.811	ug/l	100
59) 2-Hexanone	10.75	43	2223804	529.966	ug/l	99
60) Dibromochloromethane	10.90	129	725598	103.193	ug/l	100
61) 1,2-Dibromoethane	11.00	107	634654	101.428	ug/l	99
64) Tetrachloroethene	10.63	164	719025	93.011	ug/l	98
65) Chlorobenzene	11.43	112	1888661	96.347	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	696525	99.260	ug/l	99
67) Ethyl Benzene	11.51	91	3285590	100.163	ug/l	100
68) m/p-Xylenes	11.62	106	2481631	200.473	ug/l	99
69) o-Xylene	11.95	106	1215672	102.055	ug/l	100
70) Styrene	11.96	104	1989379	105.210	ug/l	100
71) Bromoform	12.13	173	504650	104.494	ug/l #	99
73) Isopropylbenzene	12.25	105	3149061	90.119	ug/l	100
74) N-amyl acetate	12.07	43	970956	104.917	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	786038	86.427	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	655850m	95.518	ug/l	
77) Bromobenzene	12.53	156	796723	88.497	ug/l	98
78) n-propylbenzene	12.59	91	3711240	94.385	ug/l	100
79) 2-Chlorotoluene	12.67	91	2174508	91.056	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	2678373	94.291	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	229132	105.138	ug/l	98
82) 4-Chlorotoluene	12.77	91	2205010	92.623	ug/l	100
83) tert-Butylbenzene	12.99	119	2304597	91.614	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	2718000	96.407	ug/l	100
85) sec-Butylbenzene	13.17	105	3134485	91.820	ug/l	99
86) p-Isopropyltoluene	13.29	119	2727666	95.046	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	1427888	93.375	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	1402867	92.437	ug/l	100
89) n-Butylbenzene	13.61	91	2425750	100.110	ug/l	100
90) Hexachloroethane	13.87	117	501224	91.058	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	1384755	90.964	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	119239	93.524	ug/l	98

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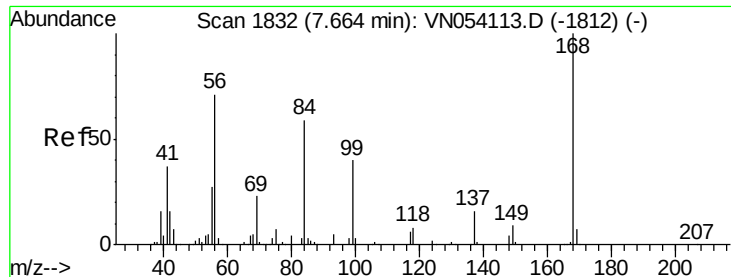
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	766640	105.499	ug/l	99
94) Hexachlorobutadiene	15.01	225	451876	82.932	ug/l	99
95) Naphthalene	15.13	128	1641215	109.500	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	720128	98.457	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: VN054114.D

Acq: 6 Mar 2019 11:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:168 Resp: 670933

Ion Ratio Lower Upper

168 100

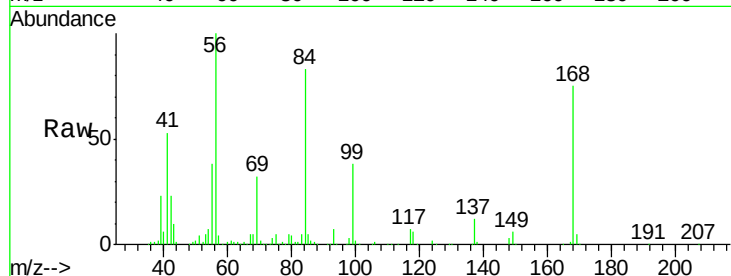
99 50.5 41.1 61.7

Manual Integrations

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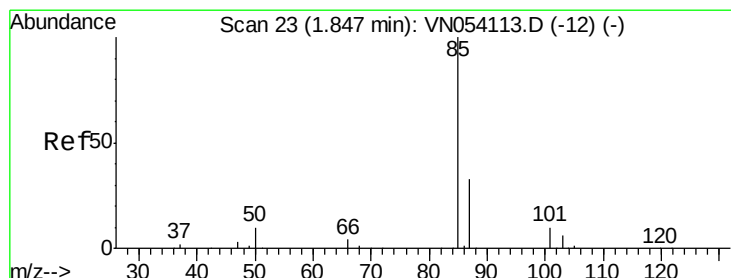
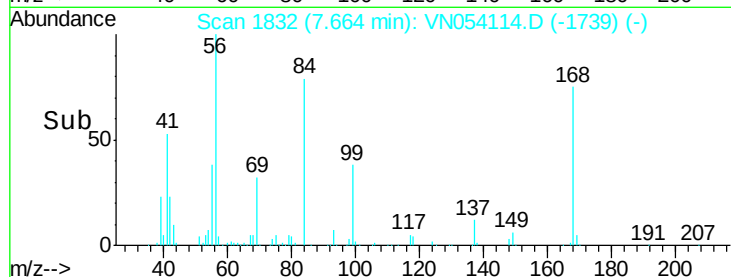
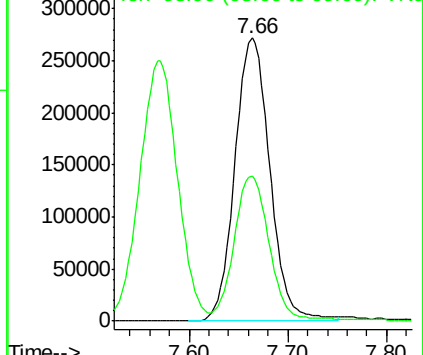
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 90.949 ug/l

RT: 1.84 min Scan# 22

Delta R.T. -0.00 min

Lab File: VN054114.D

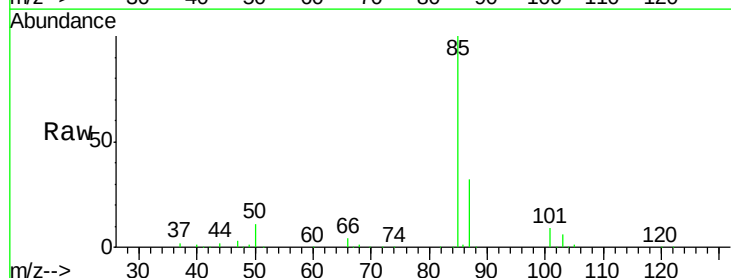
Acq: 6 Mar 2019 11:56

Tgt Ion: 85 Resp: 586462

Ion Ratio Lower Upper

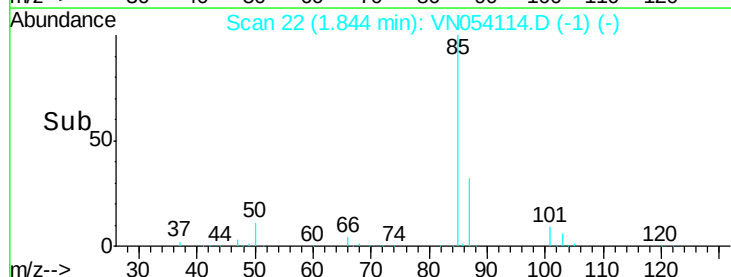
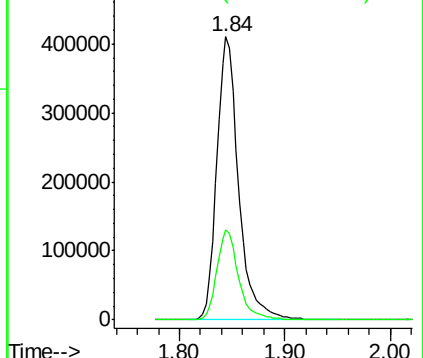
85 100

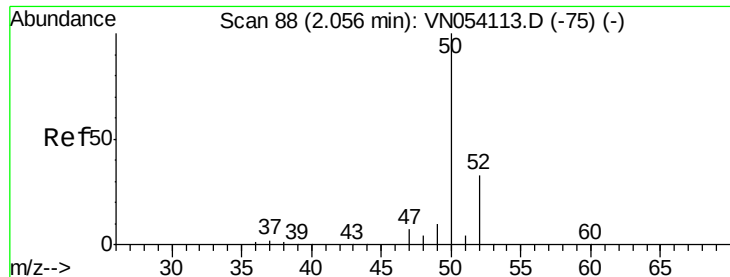
87 31.7 16.4 49.2



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 87.281 ug/l

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN054114.D

Acq: 6 Mar 2019 11:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tot Ion: 50 Resp: 806473

Ion Ratio Lower Upper

50 100

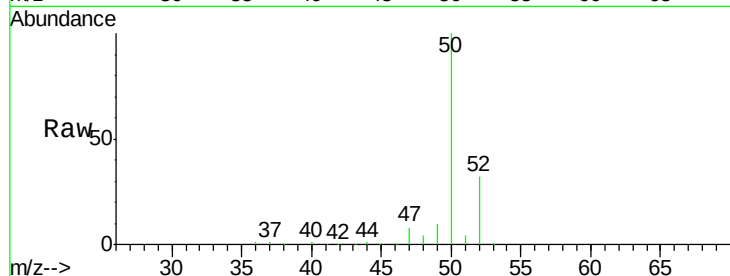
52 32.3 26.0 39.0

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Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.06

500000

400000

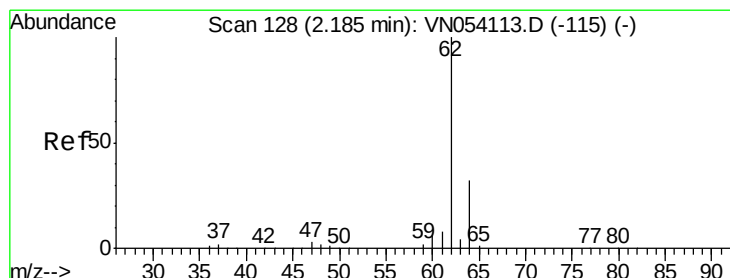
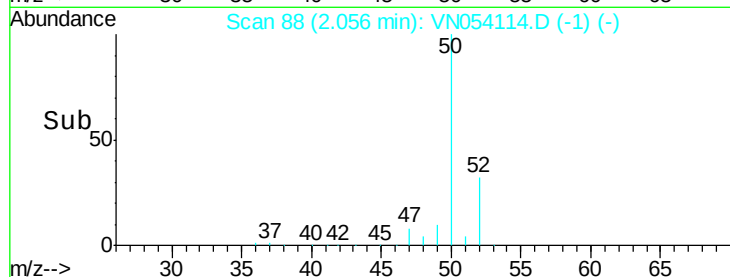
300000

200000

100000

0

Time-->



#4

Vinyl Chloride

Concen: 92.501 ug/l

RT: 2.18 min Scan# 127

Delta R.T. -0.00 min

Lab File: VN054114.D

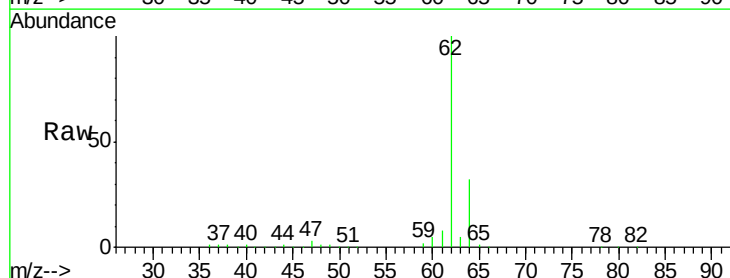
Acq: 6 Mar 2019 11:56

Tgt Ion: 62 Resp: 808127

Ion Ratio Lower Upper

62 100

64 31.6 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO

2.18

600000

500000

400000

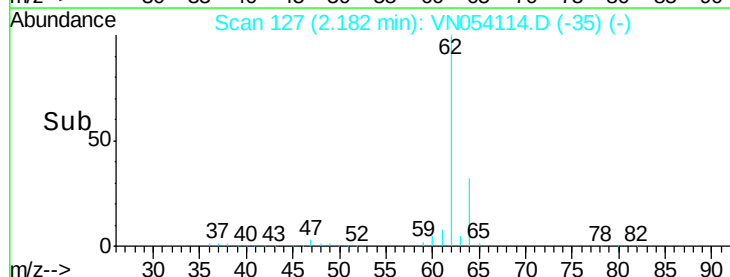
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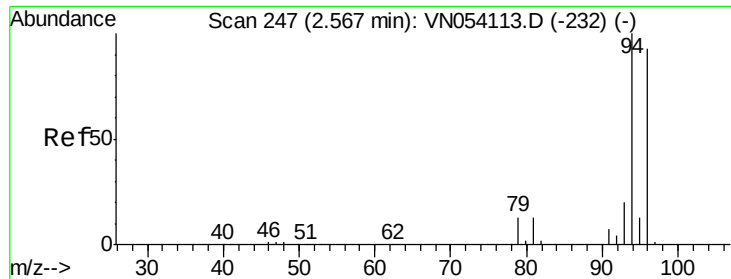
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100000

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Time-->





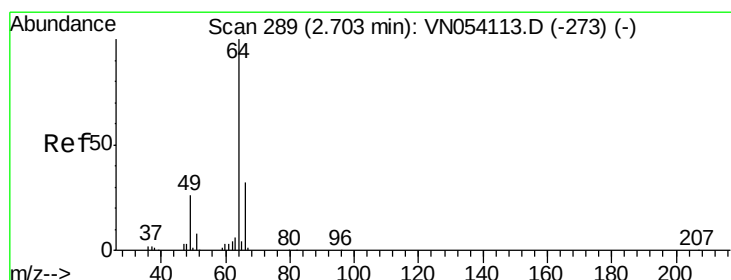
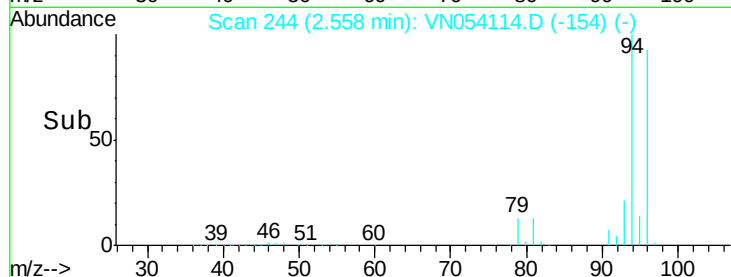
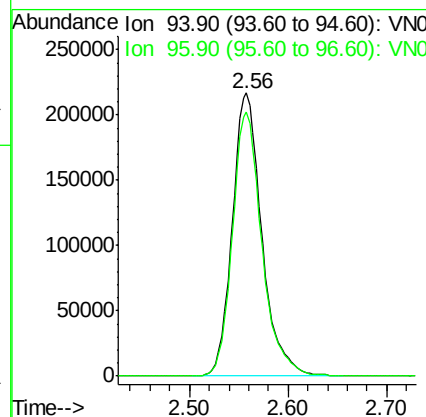
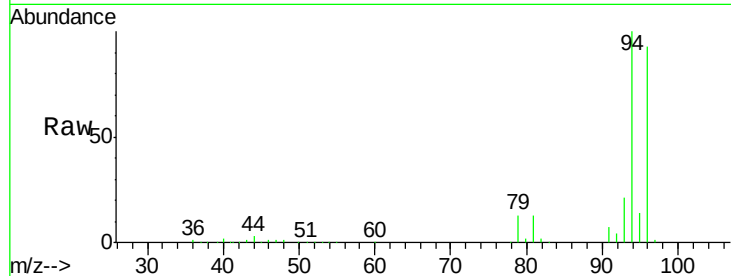
#5
Bromomethane
Concen: 79.840 ug/l
RT: 2.56 min Scan# 244
Delta R.T. -0.01 min
Lab File: VN054114.D
Acq: 6 Mar 2019 11:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 94 Resp: 452274
Ion Ratio Lower Upper
94 100
96 93.1 74.2 111.4

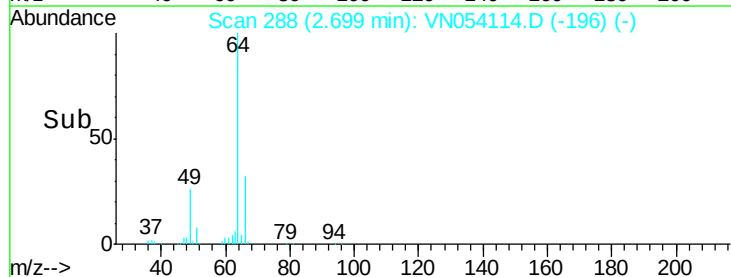
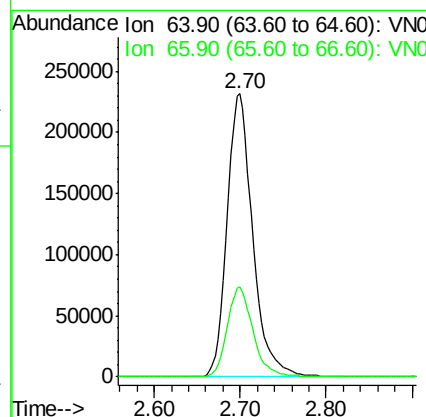
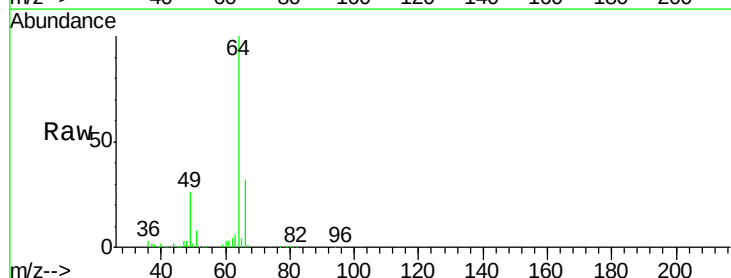
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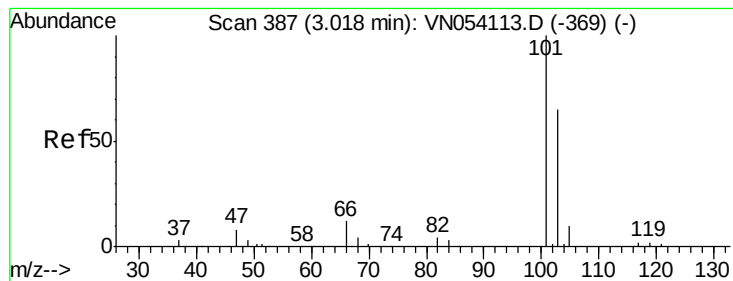
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#6
Chloroethane
Concen: 90.741 ug/l
RT: 2.70 min Scan# 288
Delta R.T. -0.00 min
Lab File: VN054114.D
Acq: 6 Mar 2019 11:56

Tgt Ion: 64 Resp: 480508
Ion Ratio Lower Upper
64 100
66 31.7 25.4 38.2





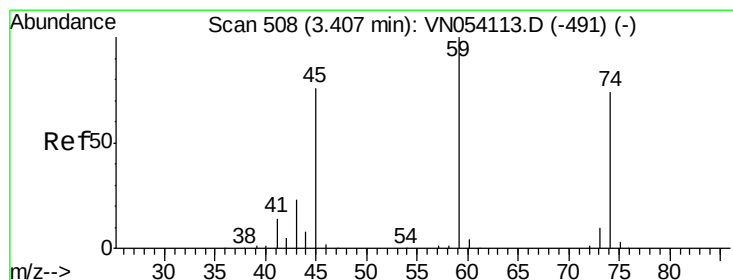
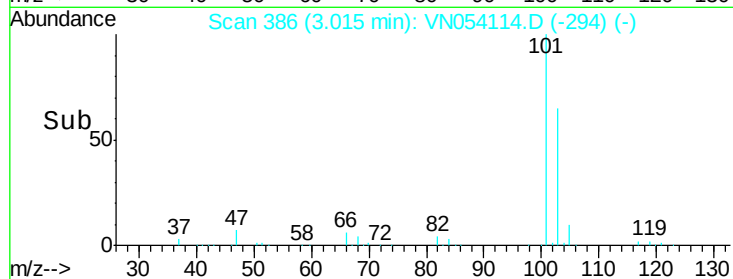
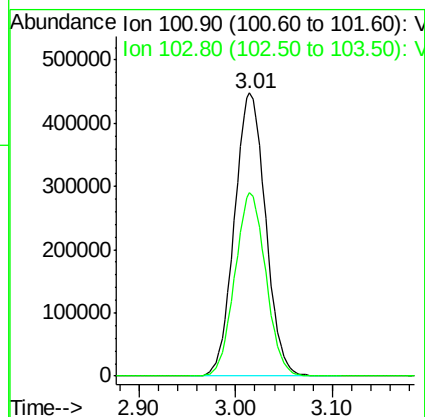
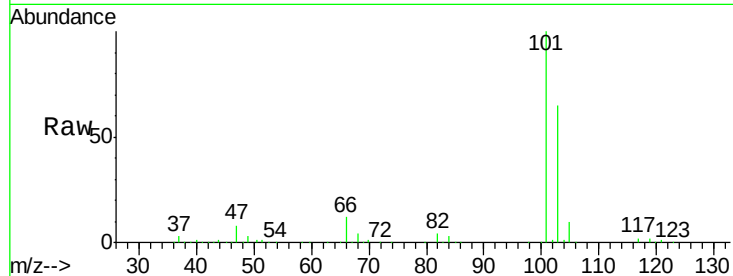
#7
 Trichlorofluoromethane
 Concen: 93.681 ug/l
 RT: 3.01 min Scan# 386
 Delta R.T. -0.00 min
 Lab File: VN054114.D
 Acq: 6 Mar 2019 11:56

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC100

Tot Ion:101 Resp: 999897
 Ion Ratio Lower Upper
 101 100
 103 64.9 52.0 78.0

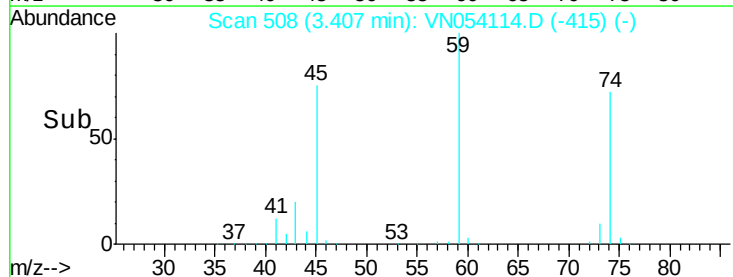
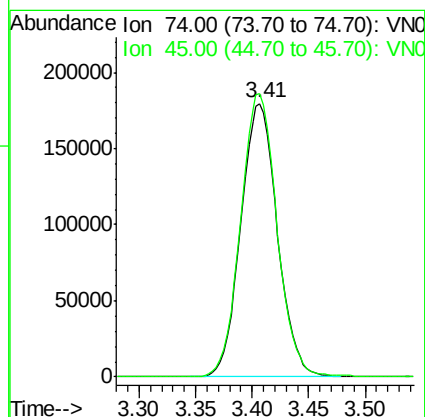
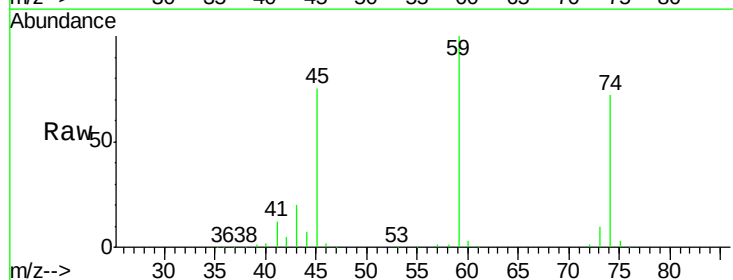
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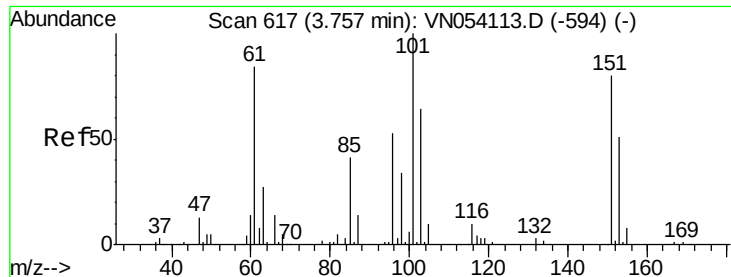
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#8
 Diethyl Ether
 Concen: 94.831 ug/l
 RT: 3.41 min Scan# 508
 Delta R.T. 0.00 min
 Lab File: VN054114.D
 Acq: 6 Mar 2019 11:56

Tgt Ion: 74 Resp: 403321
 Ion Ratio Lower Upper
 74 100
 45 103.2 51.7 155.2





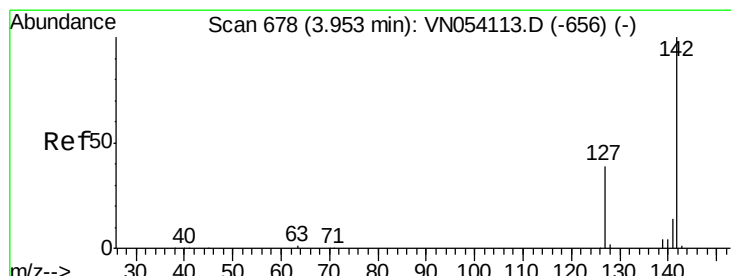
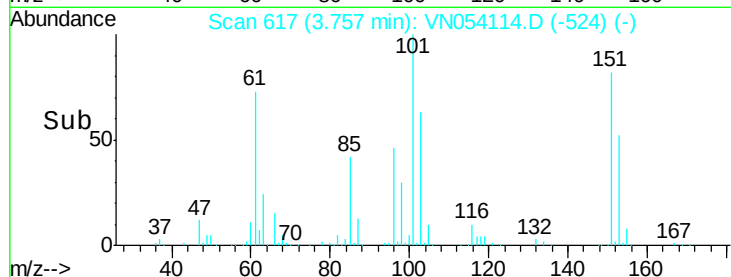
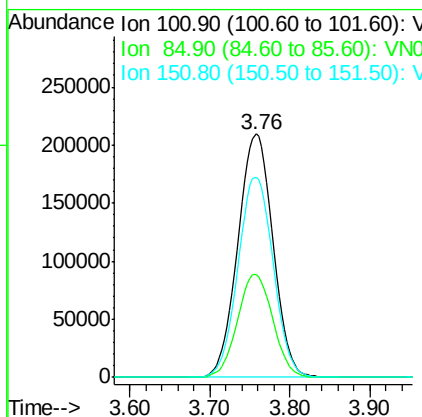
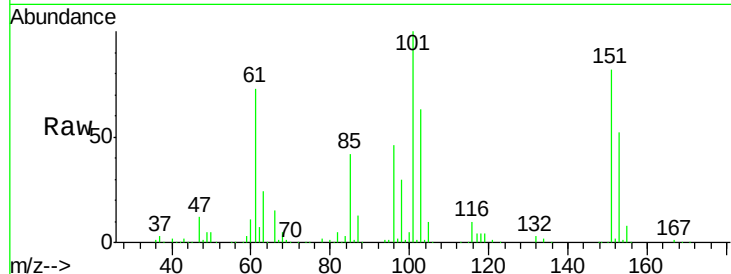
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 89.702 ug/l
 RT: 3.76 min Scan# 617
 Delta R.T. 0.00 min
 Lab File: VN054114.D
 Acq: 6 Mar 2019 11:56

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
101	100	622878		
85	42.6		33.1	49.7
151	82.8		64.3	96.5

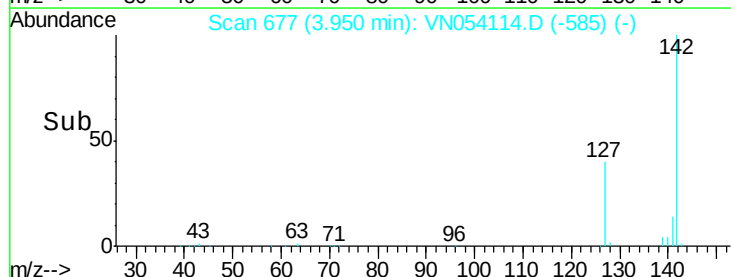
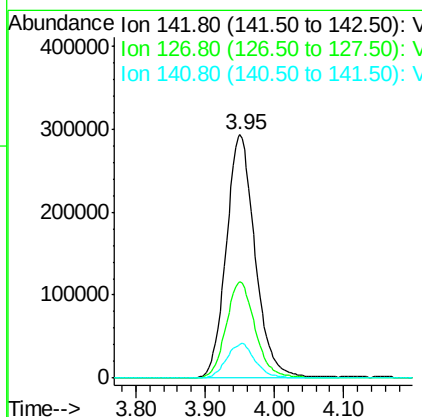
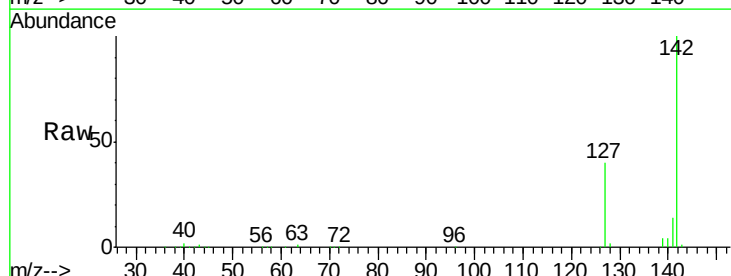
Manual Integrations
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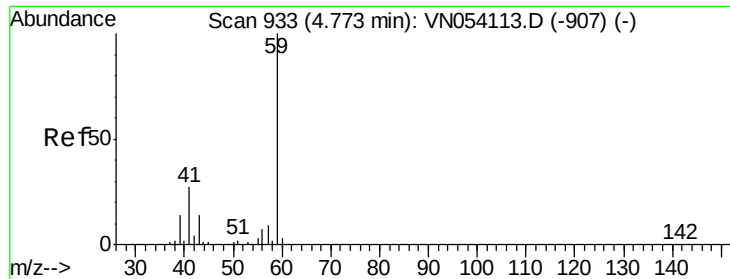
MMDadoda
 3/7/2019 11:38:11 AM



#10
 Methyl Iodide
 Concen: 115.752 ug/l
 RT: 3.95 min Scan# 677
 Delta R.T. -0.00 min
 Lab File: VN054114.D
 Acq: 6 Mar 2019 11:56

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	852994		
127	40.0		31.9	47.9
141	14.2		11.4	17.0





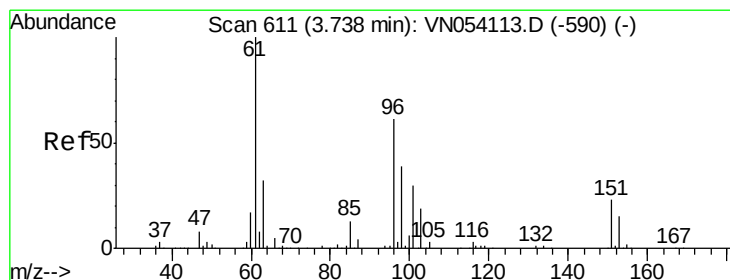
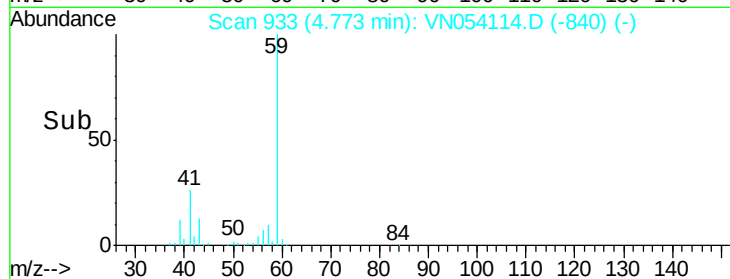
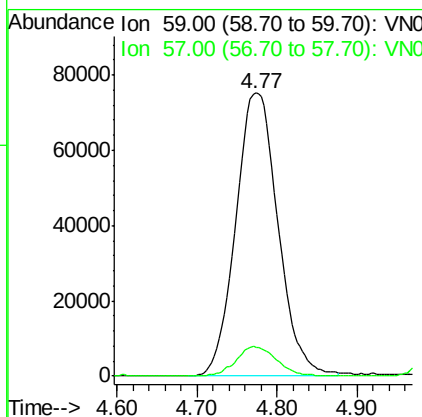
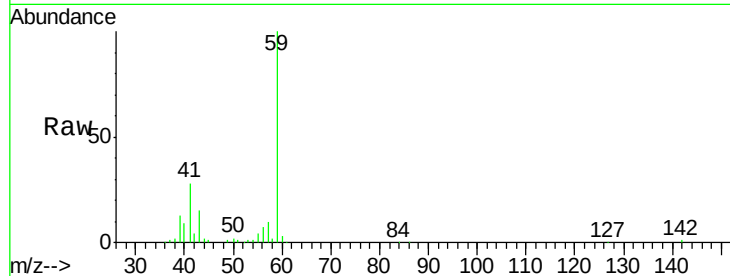
#11
Tert butyl alcohol
Concen: 552.428 ug/l
RT: 4.77 min Scan# 933
Delta R.T. 0.00 min
Lab File: VN054114.D
Acq: 6 Mar 2019 11:56

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.2	12.4

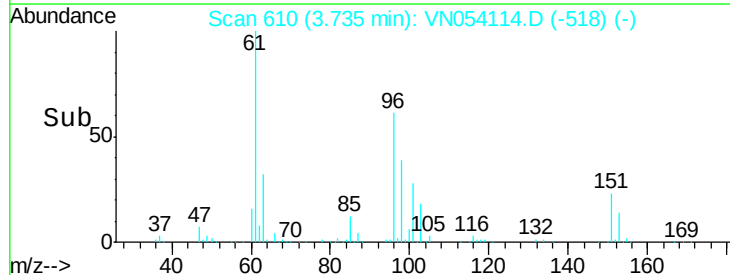
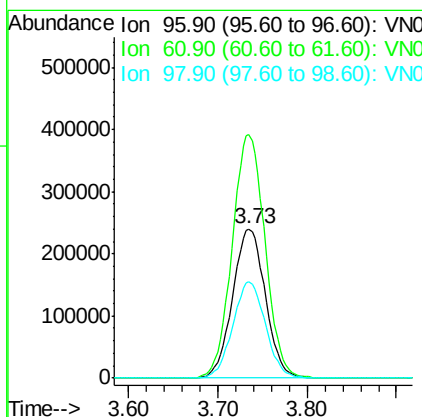
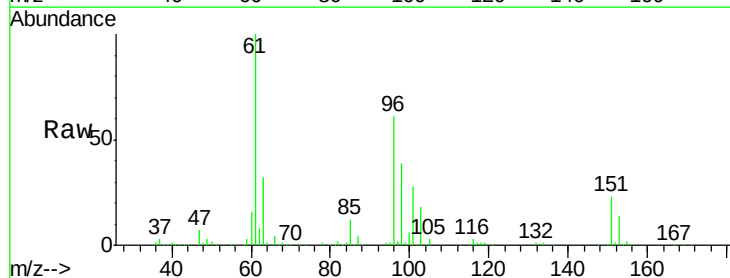
Manual Integrations
APPROVED

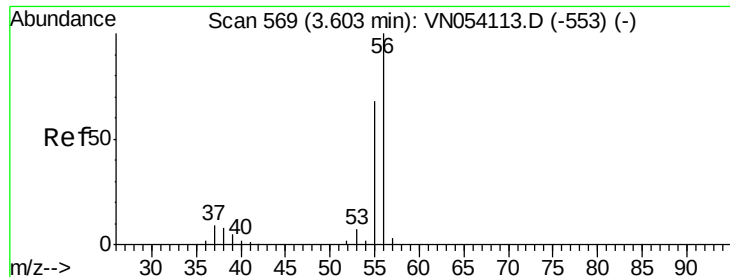
MMDadoda
3/7/2019 11:38:11 AM



#12
1,1-Dichloroethene
Concen: 94.378 ug/l
RT: 3.73 min Scan# 610
Delta R.T. -0.00 min
Lab File: VN054114.D
Acq: 6 Mar 2019 11:56

Tgt Ion	Ratio	Lower	Upper
96	100		
61	163.1	131.2	196.8
98	64.4	50.7	76.1





#13

Acrolein

Concen: 589.978 ug/l

RT: 3.60 min Scan# 568

Delta R.T. -0.00 min

Lab File: VN054114.D

Acq: 6 Mar 2019 11:56

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 56 Resp: 254349

Ion Ratio Lower Upper

56 100

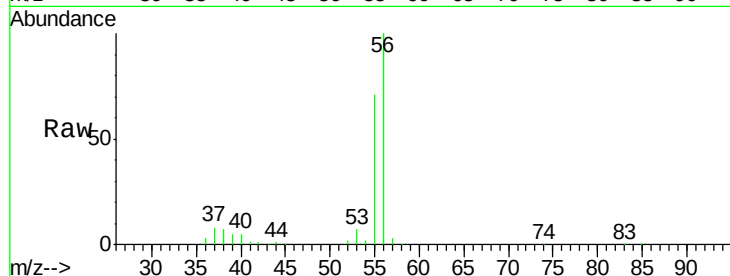
55 71.1 57.1 85.7

Manual Integrations

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Abundance Ion 56.00 (55.70 to 56.70): VN054114.D (-553) (-)

Ion 55.00 (54.70 to 55.70): VN054114.D (-553) (-)

3.60

100000

80000

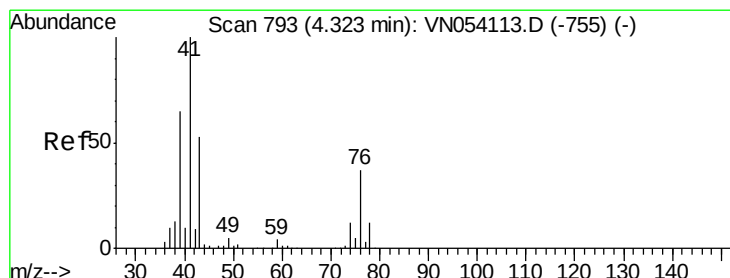
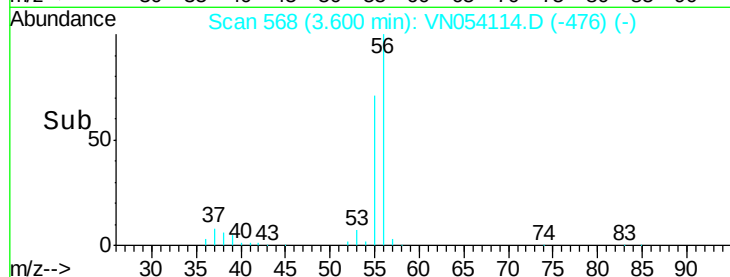
60000

40000

20000

0

Time-->



#14

Allyl chloride

Concen: 100.127 ug/l

RT: 4.32 min Scan# 792

Delta R.T. -0.00 min

Lab File: VN054114.D

Acq: 6 Mar 2019 11:56

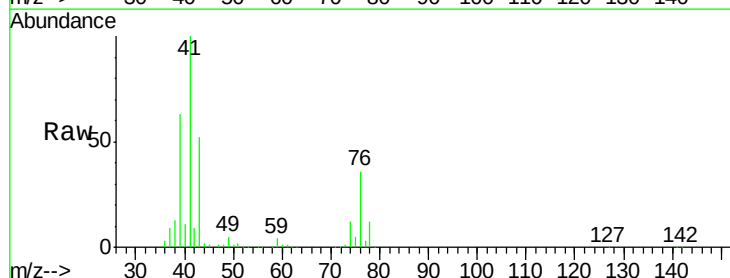
Tgt Ion: 41 Resp: 1168666

Ion Ratio Lower Upper

41 100

39 60.9 49.3 73.9

76 33.3 26.5 39.7



Abundance Ion 41.00 (40.70 to 41.70): VN054114.D (-700) (-)

Ion 39.00 (38.70 to 39.70): VN054114.D (-700) (-)

Ion 75.90 (75.60 to 76.60): VN054114.D (-700) (-)

4.32

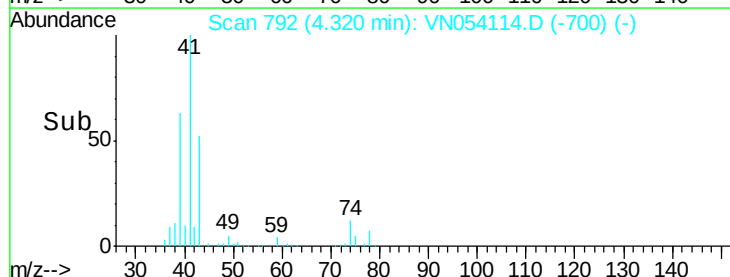
600000

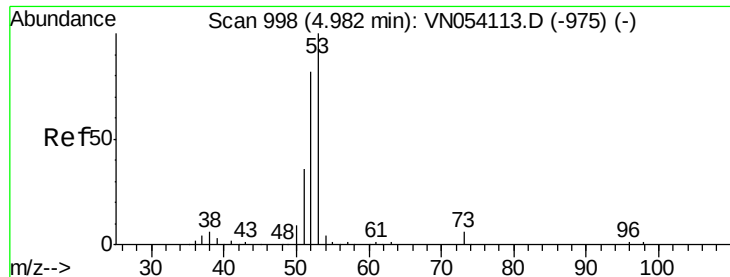
400000

200000

0

Time-->





#15

Acrylonitrile

Concen: 488.719 ug/l

RT: 4.98 min Scan# 998

Delta R.T. 0.00 min

Lab File: VN054114.D

Acq: 6 Mar 2019 11:56

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 53 Resp: 1352266

Ion Ratio Lower Upper

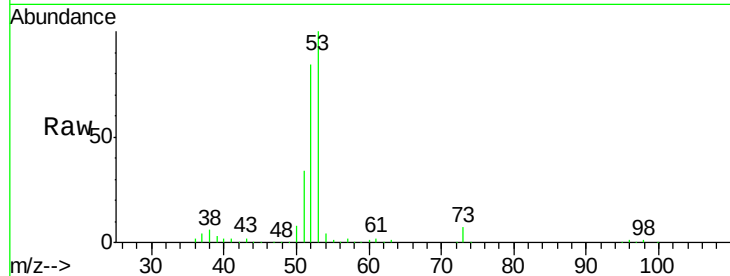
53 100

52 82.2 64.6 97.0

51 35.5 28.6 42.8

Manual Integrations
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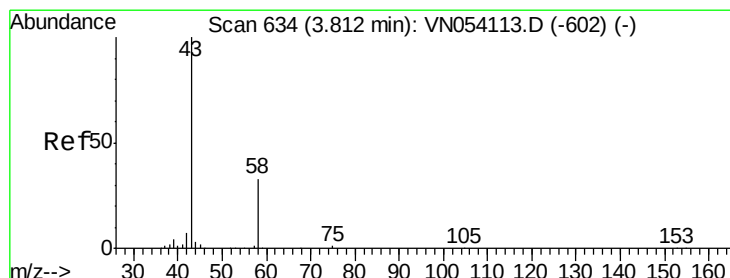
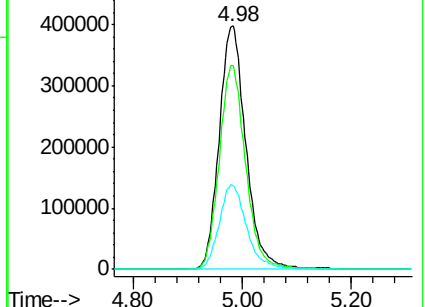
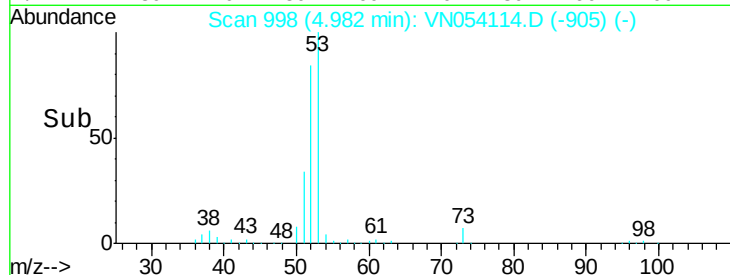
MMDadoda
3/7/2019 11:38:11 AM



Abundance Ion 53.00 (52.70 to 53.70): VN054114.D (-905) (-)

Ion 52.00 (51.70 to 52.70): VN054114.D (-905) (-)

Ion 51.00 (50.70 to 51.70): VN054114.D (-905) (-)



#16

Acetone

Concen: 446.162 ug/l

RT: 3.81 min Scan# 633

Delta R.T. -0.00 min

Lab File: VN054114.D

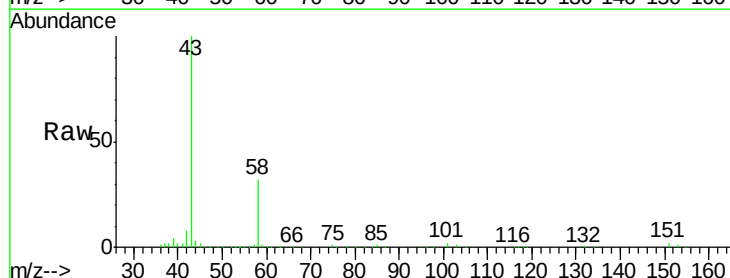
Acq: 6 Mar 2019 11:56

Tgt Ion: 43 Resp: 1112267

Ion Ratio Lower Upper

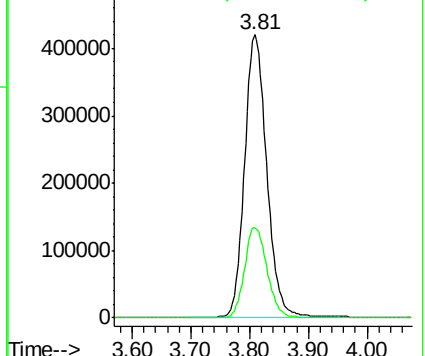
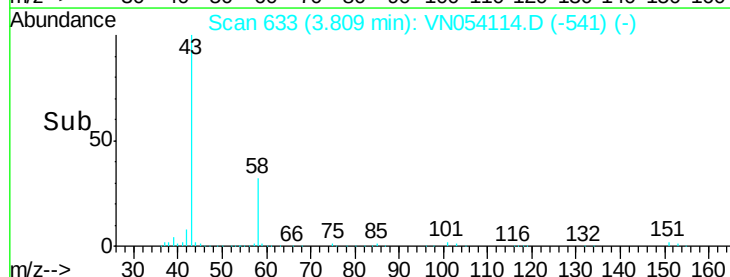
43 100

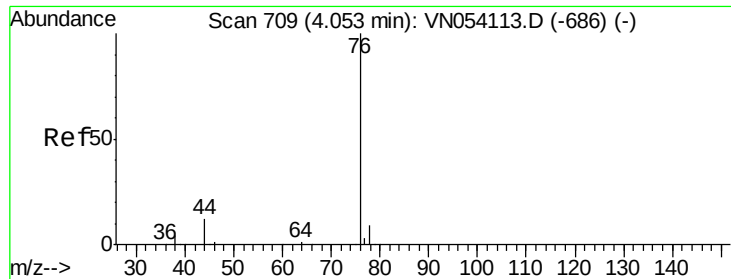
58 32.0 26.5 39.7



Abundance Ion 43.00 (42.70 to 43.70): VN054114.D (-541) (-)

Ion 58.00 (57.70 to 58.70): VN054114.D (-541) (-)





#17

Carbon Disulfide

Concen: 88.839 ug/l

RT: 4.05 min Scan# 708

Delta R.T. -0.00 min

Lab File: VN054114.D

Acq: 6 Mar 2019 11:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 76 Resp: 1877058

Ion Ratio Lower Upper

76 100

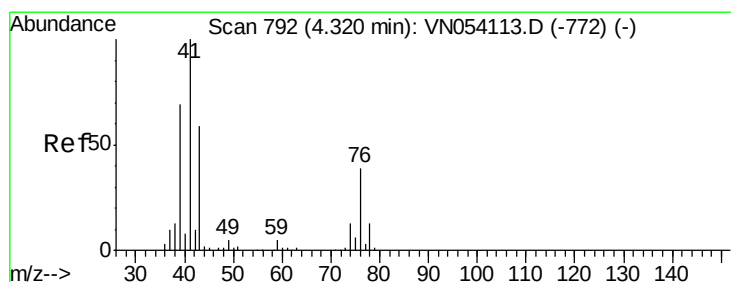
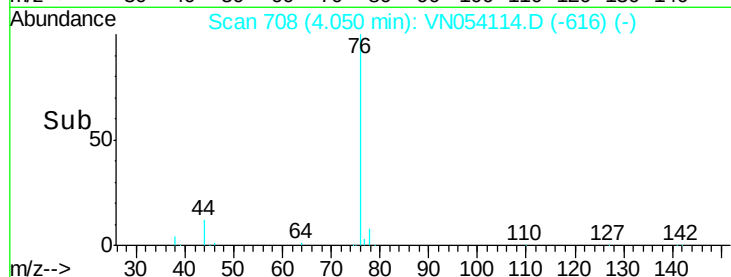
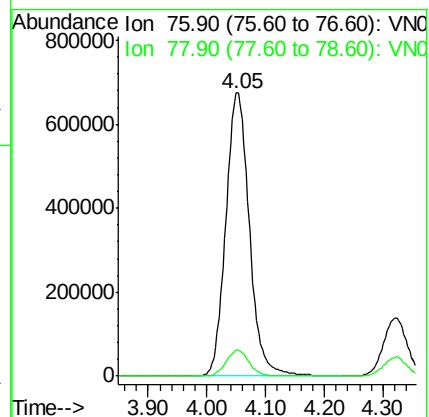
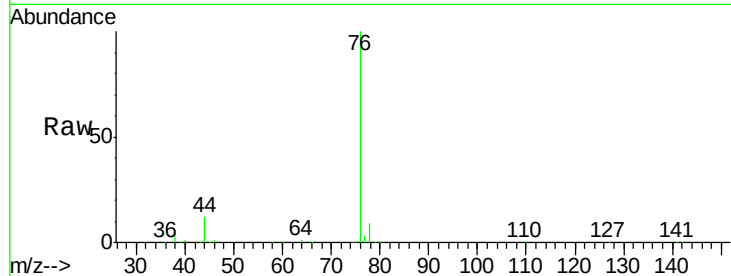
78 9.1 7.3 10.9

Manual Integrations

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#18

Methyl Acetate

Concen: 91.469 ug/l

RT: 4.32 min Scan# 791

Delta R.T. -0.00 min

Lab File: VN054114.D

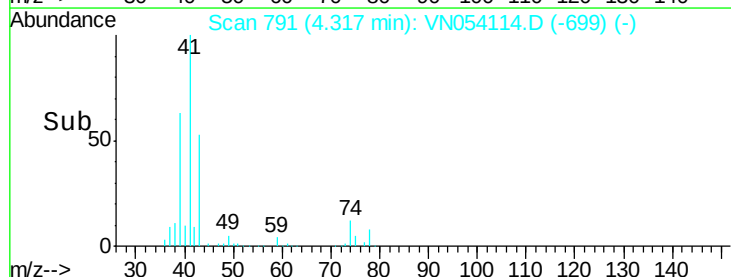
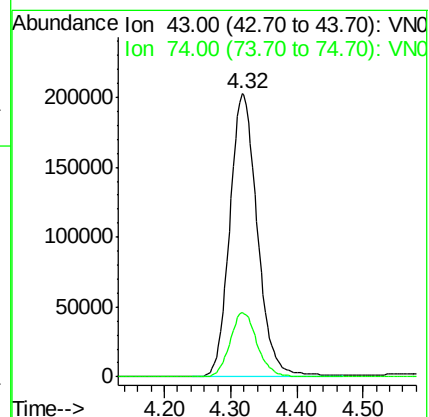
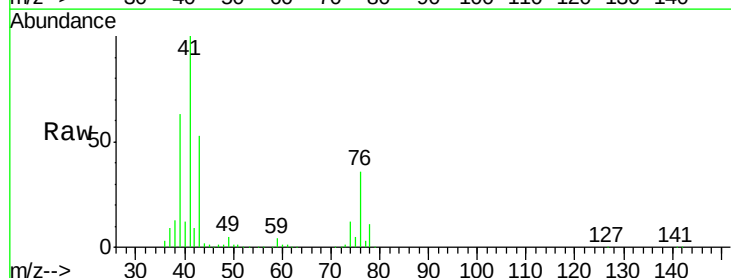
Acq: 6 Mar 2019 11:56

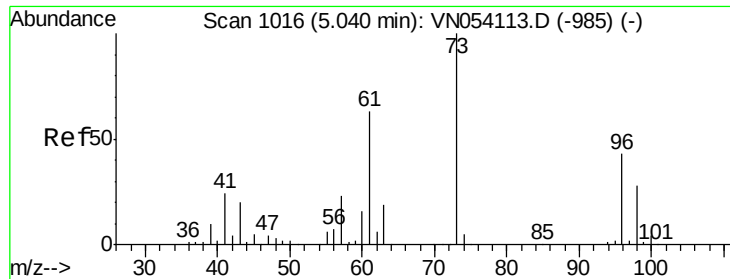
Tgt Ion: 43 Resp: 581350

Ion Ratio Lower Upper

43 100

74 22.6 18.2 27.2





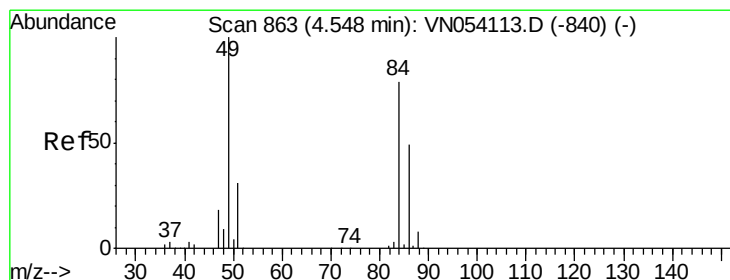
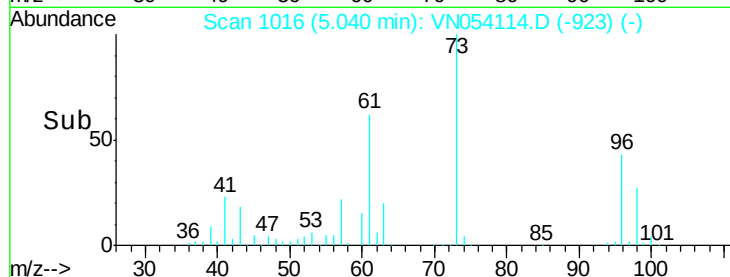
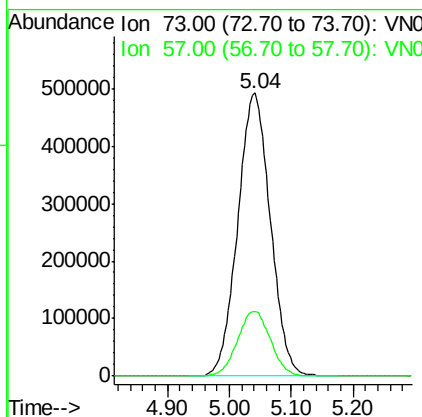
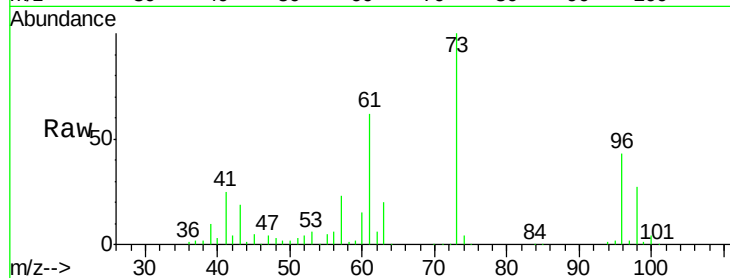
#19
Methyl tert-butyl Ether
Concen: 98.986 ug/l
RT: 5.04 min Scan# 1016
Delta R.T. 0.00 min
Lab File: VN054114.D
Acq: 6 Mar 2019 11:56

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion: 73 Resp: 1799524
Ion Ratio Lower Upper
73 100
57 23.0 18.2 27.4

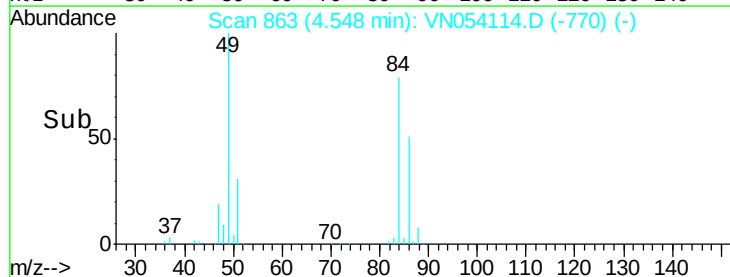
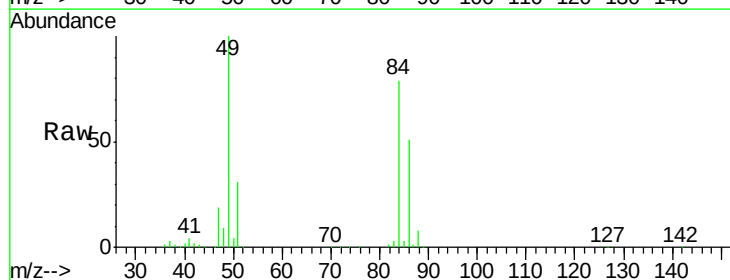
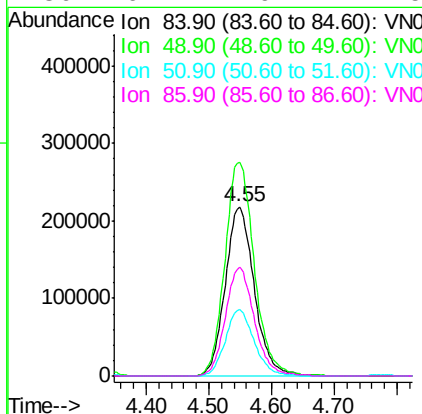
Manual Integrations
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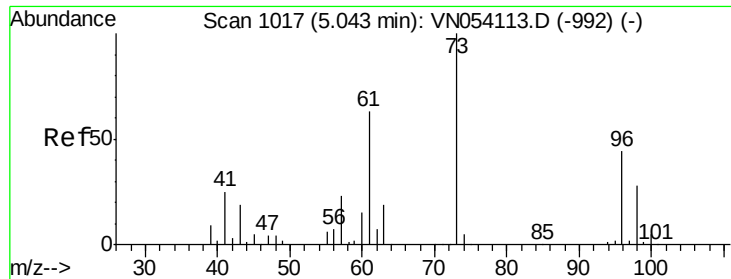
MMDadoda
3/7/2019 11:38:11 AM



#20
Methylene Chloride
Concen: 88.568 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN054114.D
Acq: 6 Mar 2019 11:56

Tgt Ion: 84 Resp: 701609
Ion Ratio Lower Upper
84 100
49 126.3 101.8 152.8
51 39.2 31.1 46.7
86 64.1 49.7 74.5





#21

trans-1,2-Dichloroethene

Concen: 93.474 ug/l

RT: 5.04 min Scan# 1015

Delta R.T. -0.01 min

Lab File: VN054114.D

Acq: 6 Mar 2019 11:56

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 96 Resp: 664721

Ion Ratio Lower Upper

96 100

61 145.1 114.8 172.2

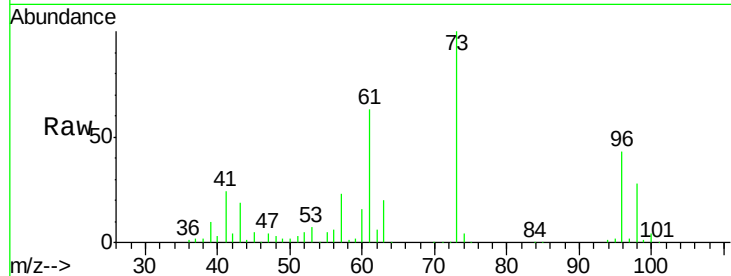
98 64.1 51.4 77.0

Manual Integrations

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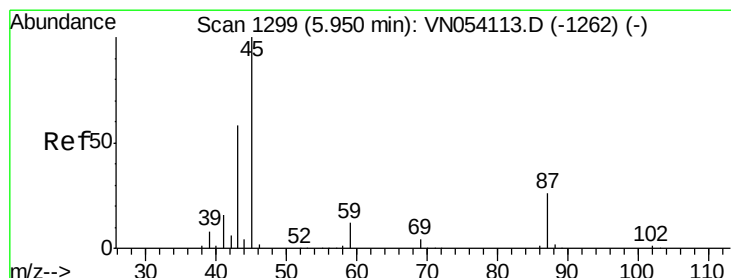
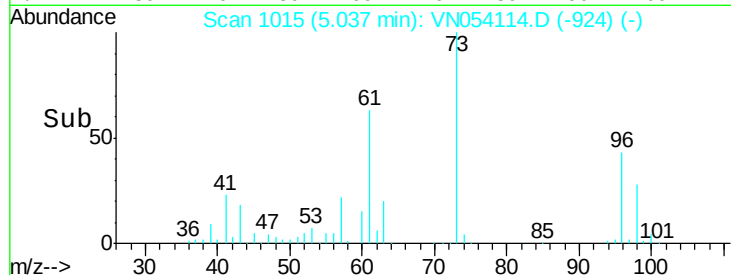
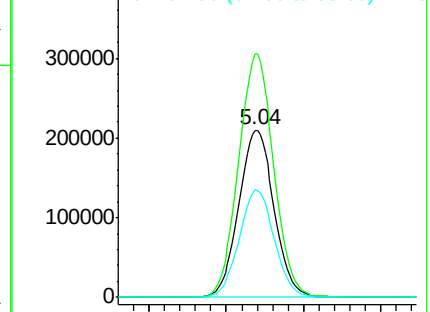


Abundance

Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO



#22

Diisopropyl ether

Concen: 102.243 ug/l

RT: 5.95 min Scan# 1298

Delta R.T. -0.00 min

Lab File: VN054114.D

Acq: 6 Mar 2019 11:56

Tgt Ion: 45 Resp: 2325170

Ion Ratio Lower Upper

45 100

43 57.8 46.2 69.4

87 25.8 20.6 31.0

59 11.4 9.4 14.0

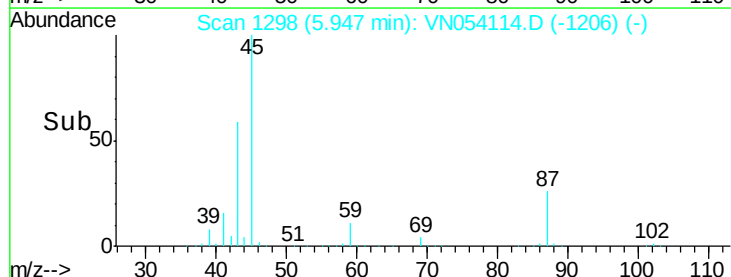
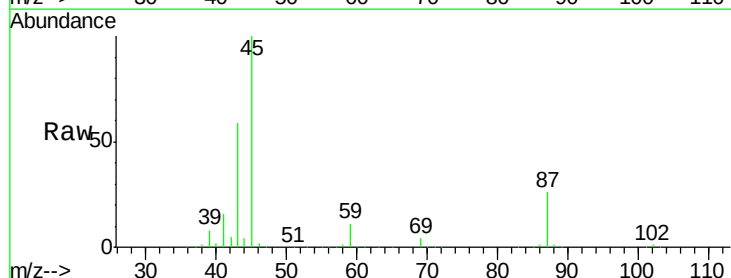
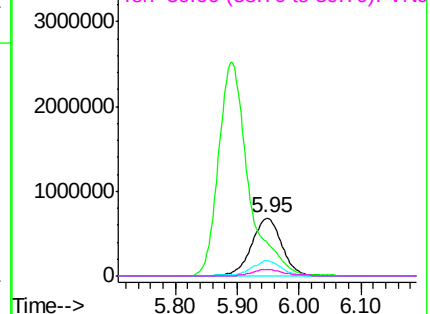
Abundance

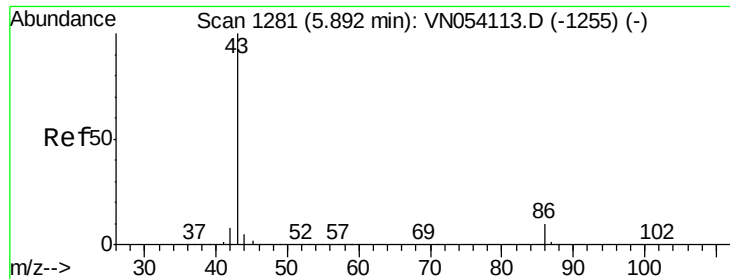
Ion 45.00 (44.70 to 45.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

Ion 59.00 (58.70 to 59.70): VNO





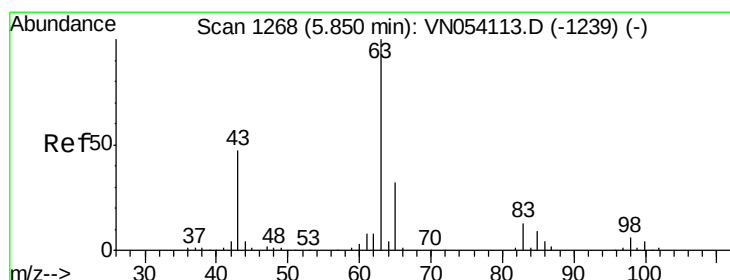
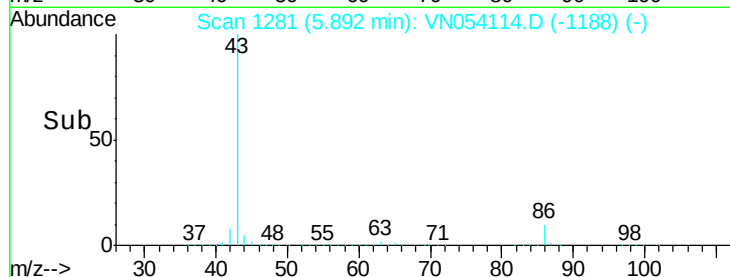
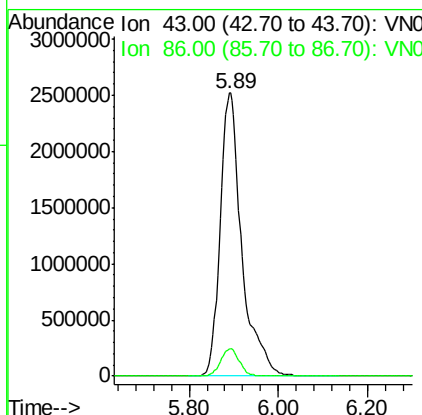
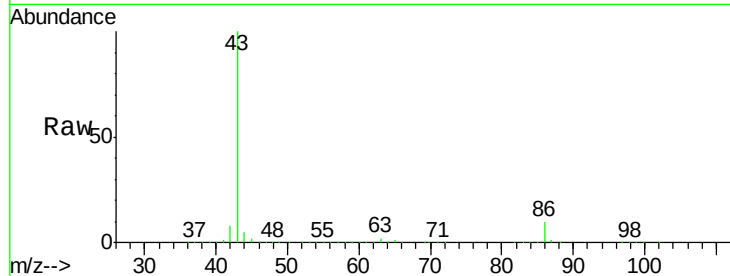
#23
Vinyl Acetate
Concen: 526.164 ug/l
RT: 5.89 min Scan# 1281
Delta R.T. 0.00 min
Lab File: VN054114.D
Acq: 6 Mar 2019 11:56

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion: 43 Resp: 8499773
Ion Ratio Lower Upper
43 100
86 9.8 7.8 11.8

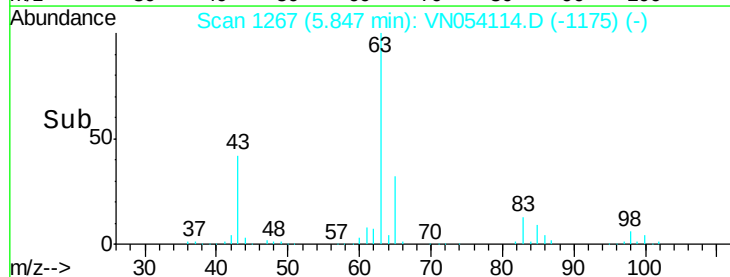
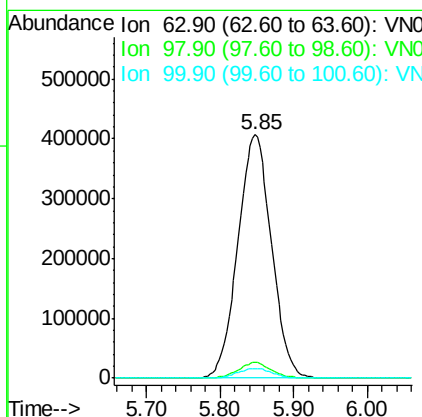
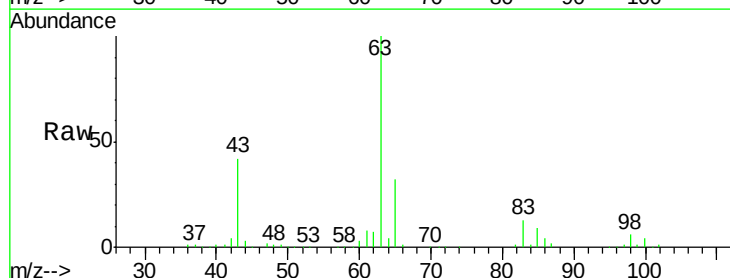
Manual Integrations
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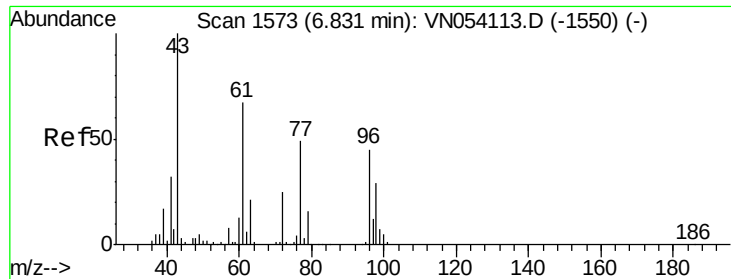
MMDadoda
3/7/2019 11:38:11 AM



#24
1,1-Dichloroethane
Concen: 94.833 ug/l
RT: 5.85 min Scan# 1267
Delta R.T. -0.00 min
Lab File: VN054114.D
Acq: 6 Mar 2019 11:56

Tgt Ion: 63 Resp: 1290313
Ion Ratio Lower Upper
63 100
98 6.5 3.1 9.4
100 4.0 2.0 6.0





#25

2-Butanone

Concen: 493.328 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN054114.D

Acq: 6 Mar 2019 11:56

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 43 Resp: 1628924

Ion Ratio Lower Upper

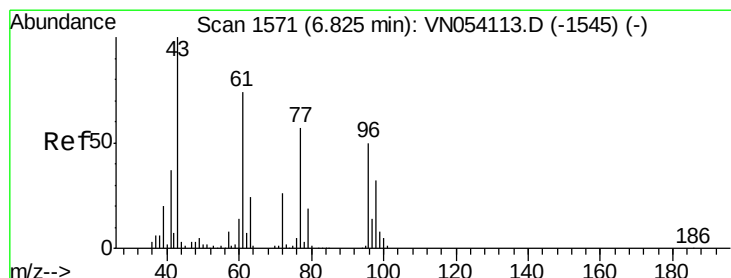
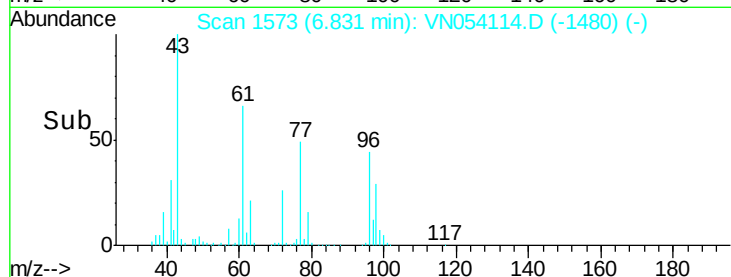
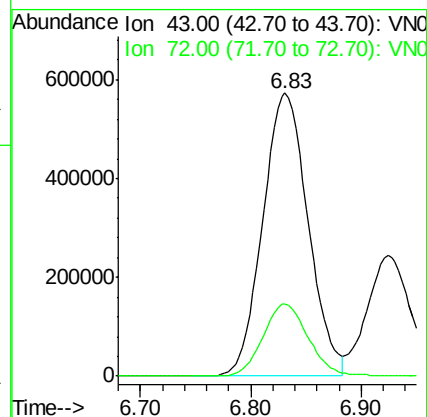
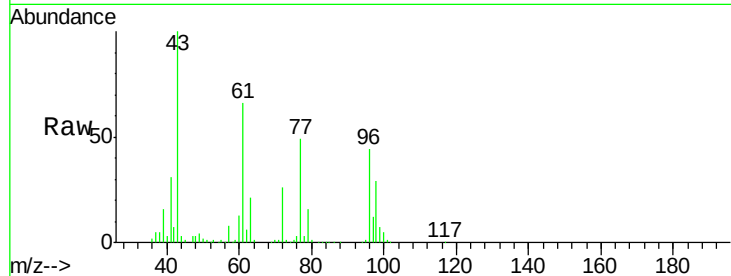
43 100

72 25.6 20.2 30.2

Manual Integrations
APPROVED

MMDadoda

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#26

2,2-Dichloropropane

Concen: 97.498 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VN054114.D

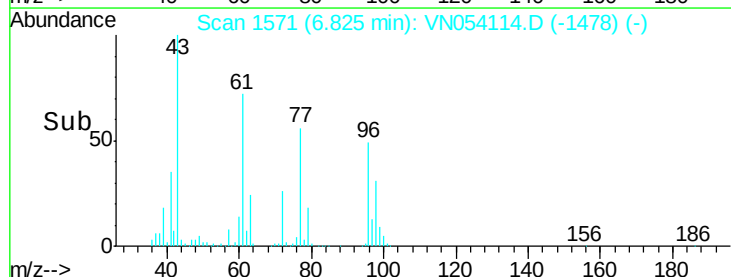
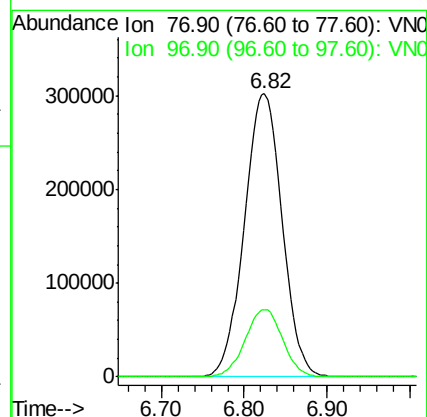
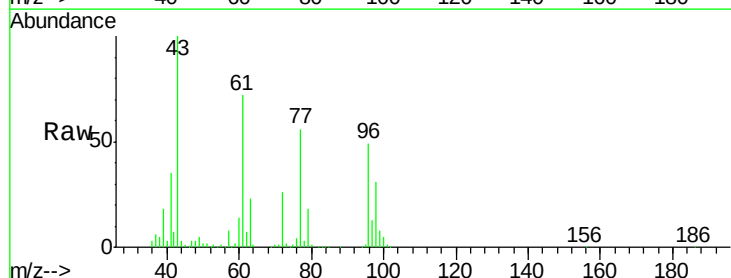
Acq: 6 Mar 2019 11:56

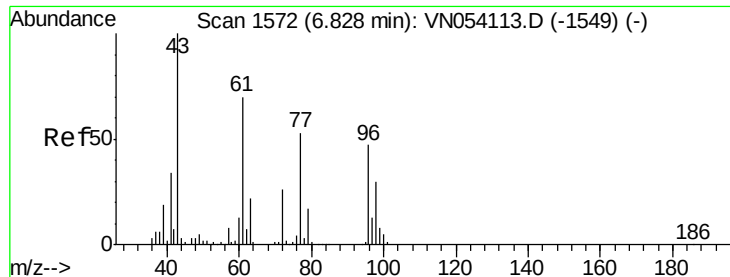
Tgt Ion: 77 Resp: 956149

Ion Ratio Lower Upper

77 100

97 23.8 11.8 35.3





#27

cis-1,2-Dichloroethene

Concen: 96.166 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VN054114.D

Acq: 6 Mar 2019 11:56

Instrument :

MSVOA_N

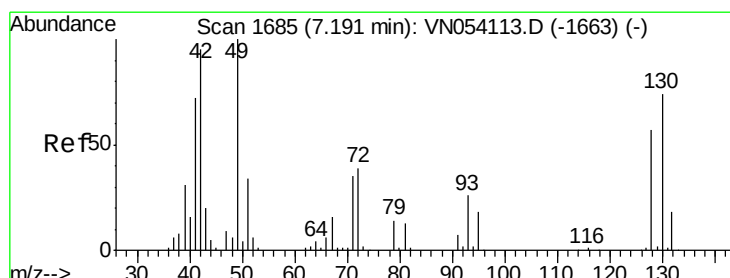
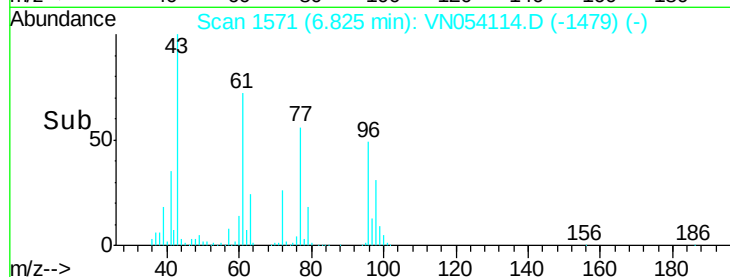
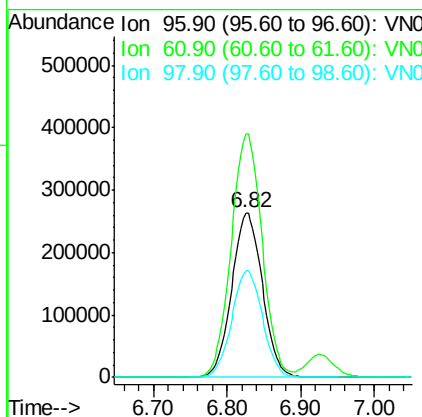
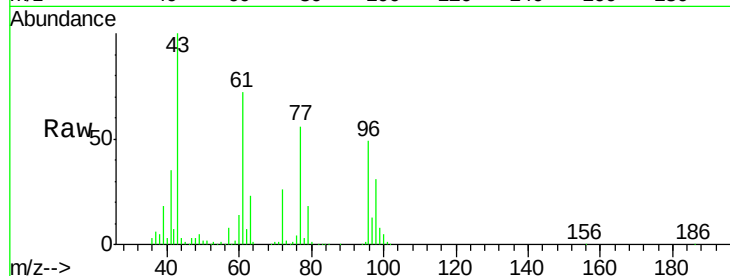
ClientSampleId :

VSTDIC100

Tot Ion:	96	Resp:	762576
Ion	Ratio	Lower	Upper
96	100		
61	149.6	0.0	297.0
98	65.2	0.0	129.4

Manual Integrations
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3/7/2019 11:38:11 AM



#28

Bromochloromethane

Concen: 95.807 ug/l

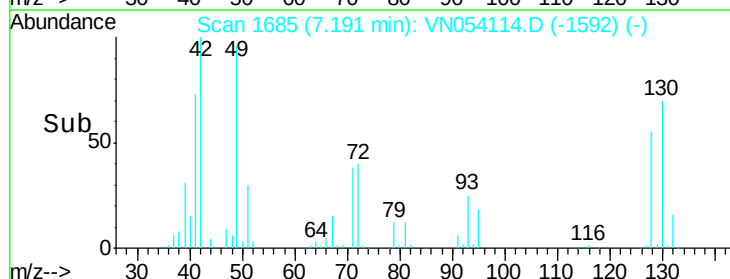
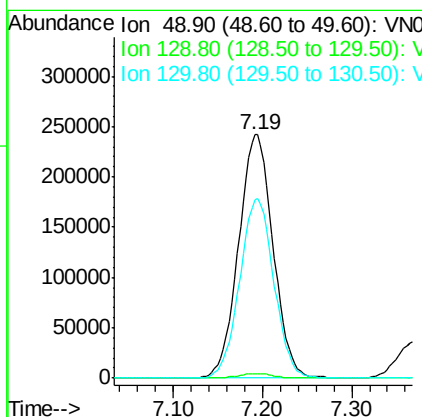
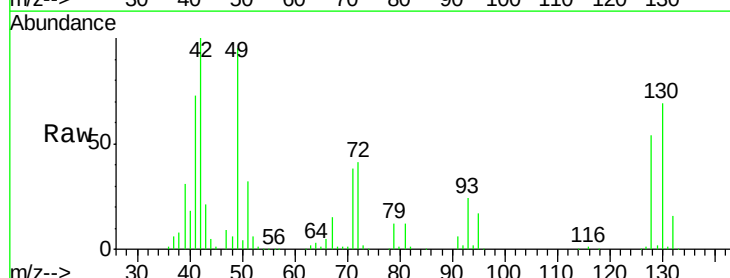
RT: 7.19 min Scan# 1685

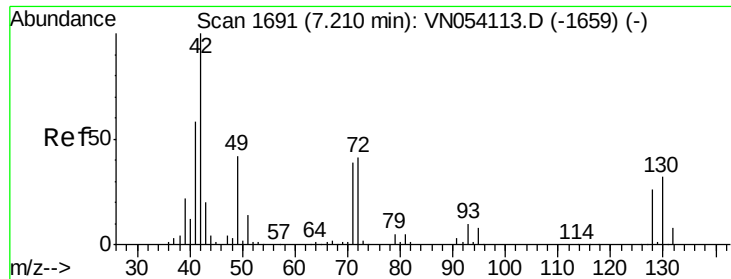
Delta R.T. 0.00 min

Lab File: VN054114.D

Acq: 6 Mar 2019 11:56

Tgt Ion:	49	Resp:	650640
Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.8
130	73.1	59.4	89.2





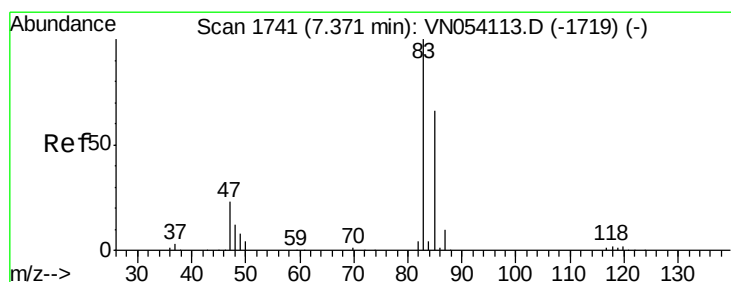
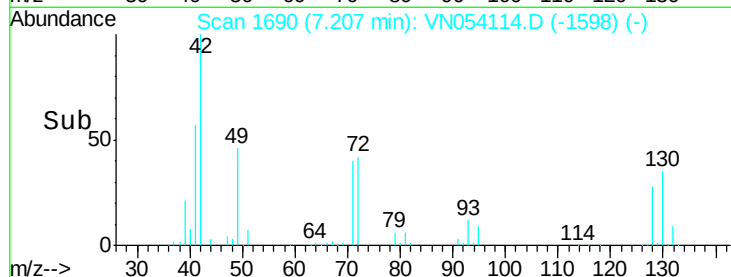
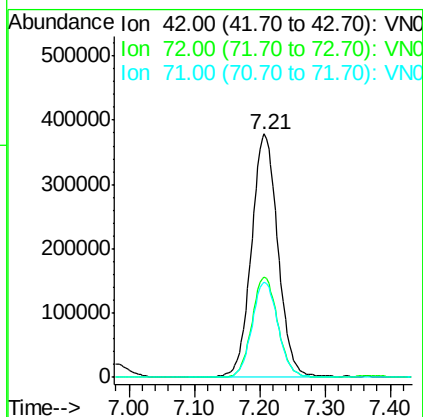
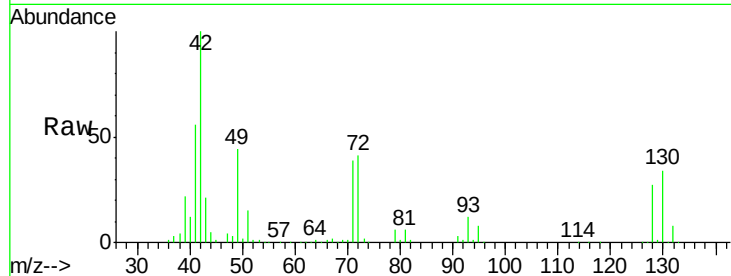
#29
Tetrahydrofuran
Concen: 492.527 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. -0.00 min
Lab File: VN054114.D
Acq: 6 Mar 2019 11:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 42 Resp: 1065944
Ion Ratio Lower Upper
42 100
72 40.5 32.8 49.2
71 38.7 30.5 45.7

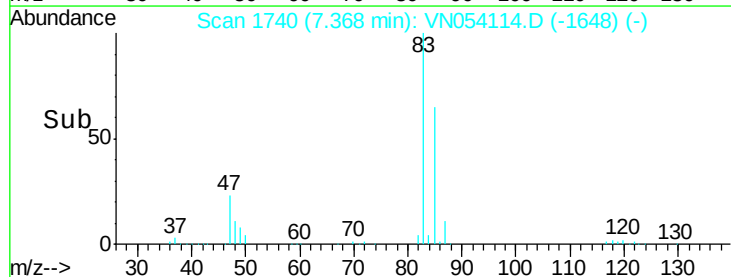
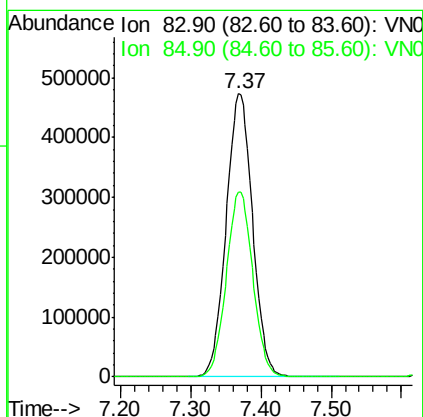
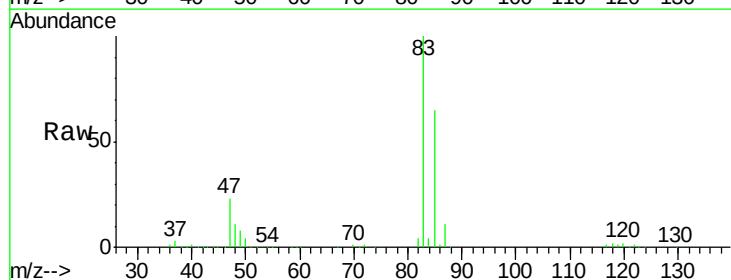
Manual Integrations
APPROVED

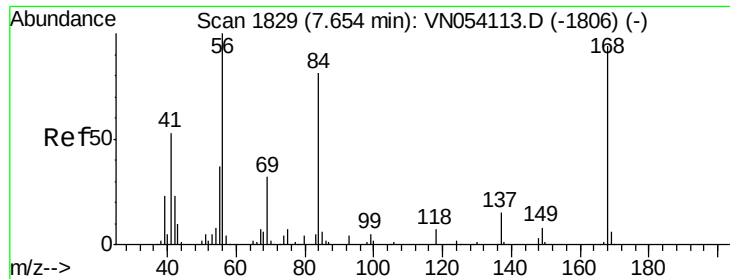
MMDadoda
3/7/2019 11:38:11 AM



#30
Chloroform
Concen: 95.102 ug/l
RT: 7.37 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VN054114.D
Acq: 6 Mar 2019 11:56

Tgt Ion: 83 Resp: 1239856
Ion Ratio Lower Upper
83 100
85 65.3 53.1 79.7





#31

Cyclohexane

Concen: 82.260 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN054114.D

Acq: 6 Mar 2019 11:56

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 56 Resp: 1215194

Ion Ratio Lower Upper

56 100

69 30.6 25.5 38.3

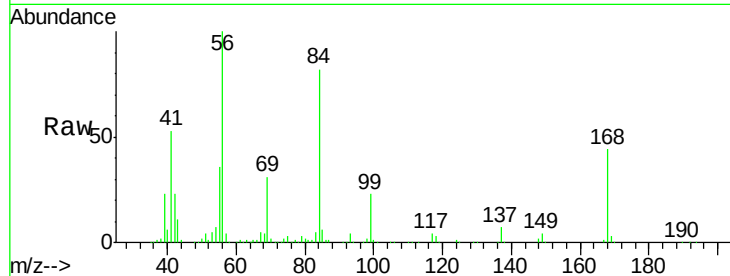
84 80.5 64.5 96.7

Manual Integrations

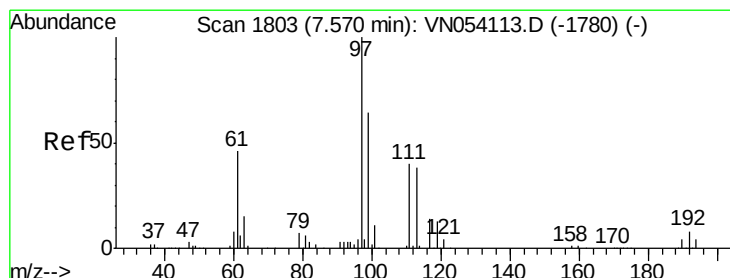
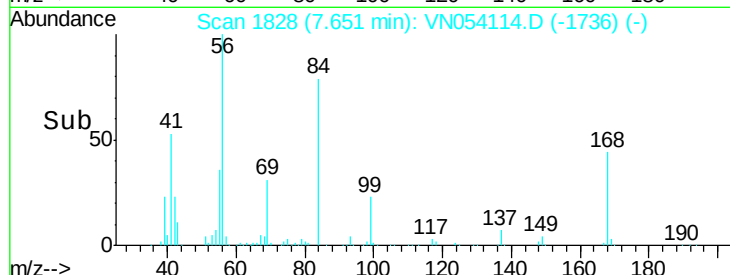
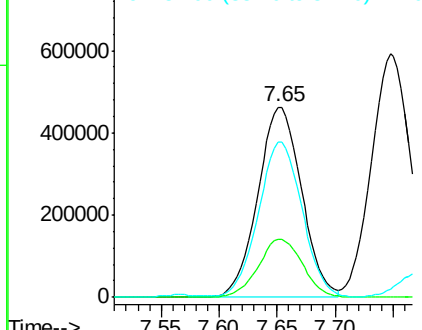
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Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC



#32

1,1,1-Trichloroethane

Concen: 96.866 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN054114.D

Acq: 6 Mar 2019 11:56

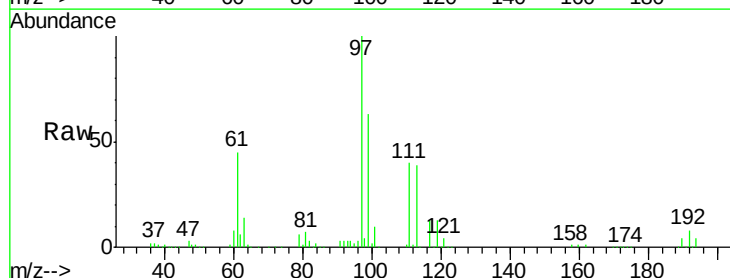
Tgt Ion: 97 Resp: 1047019

Ion Ratio Lower Upper

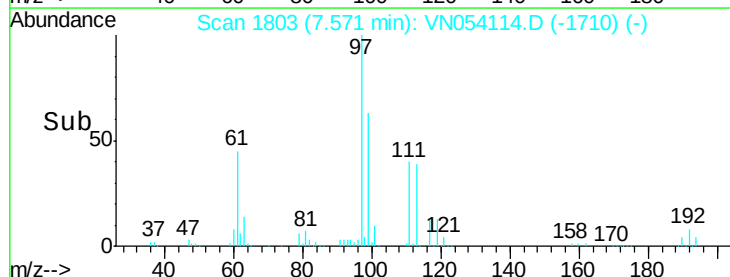
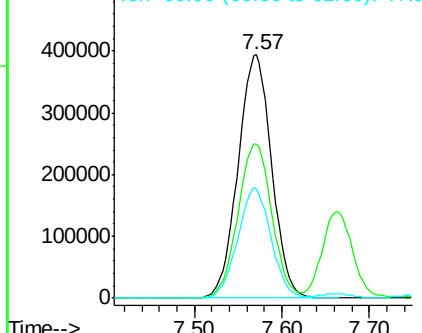
97 100

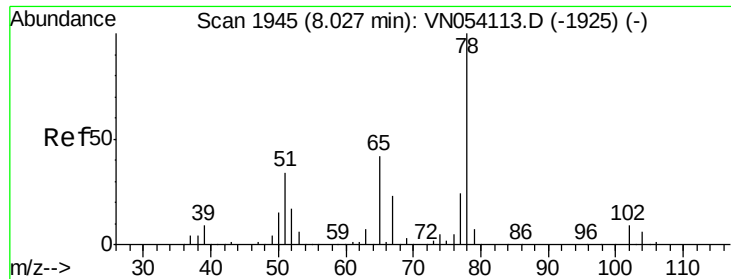
99 64.1 51.2 76.8

61 44.9 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





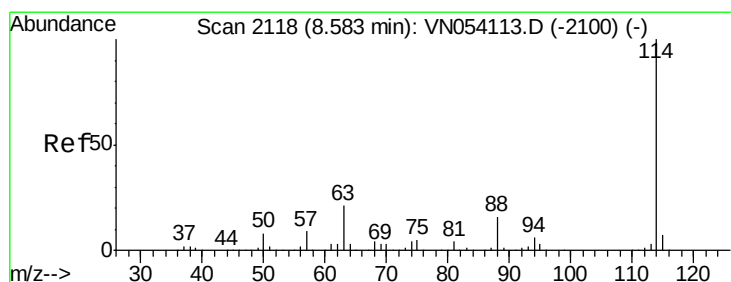
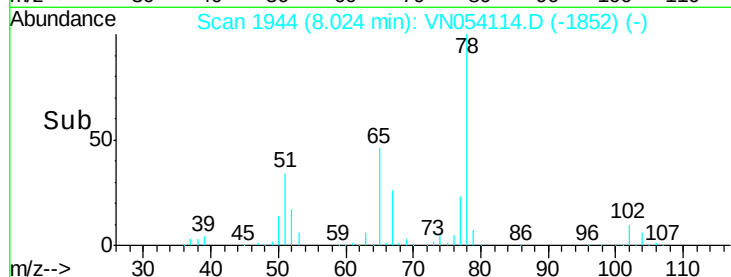
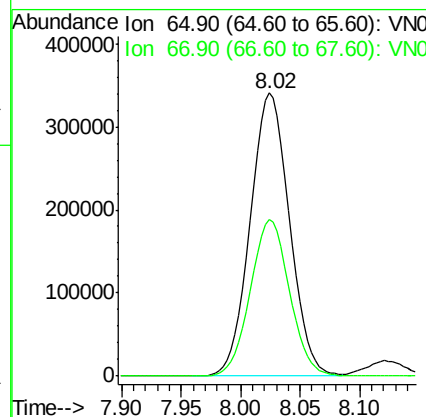
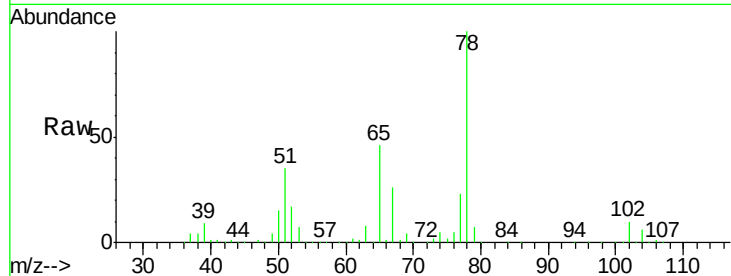
#33
 1,2-Dichloroethane-d4
 Concen: 96.701 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: VN054114.D
 Acq: 6 Mar 2019 11:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
65	100	779184		
67	55.2	0.0	109.6	

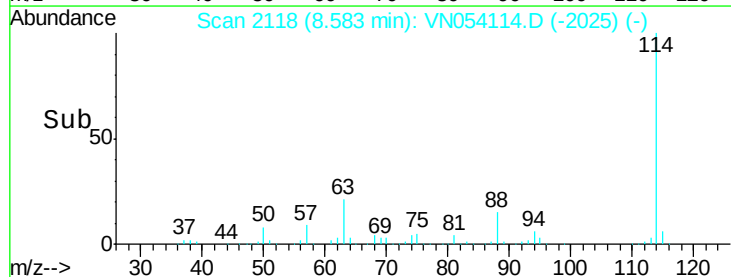
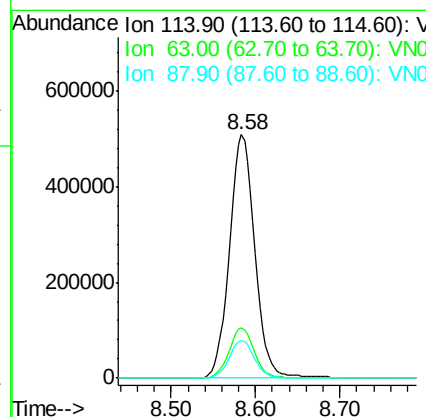
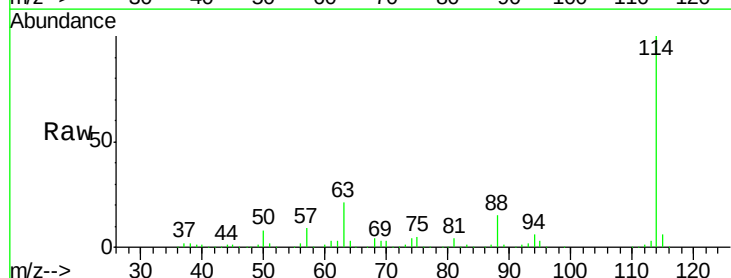
Manual Integrations
 APPROVED

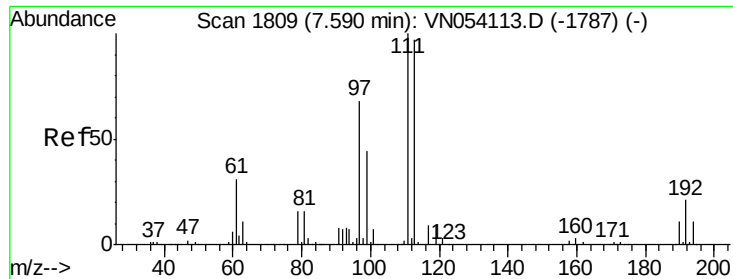
MMDadoda
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN054114.D
 Acq: 6 Mar 2019 11:56

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	1061467		
63	20.6	0.0	42.6	
88	15.4	0.0	31.8	





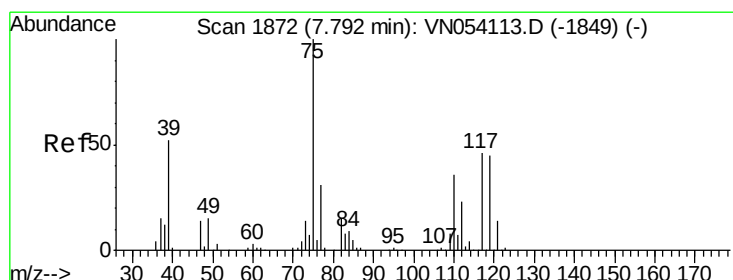
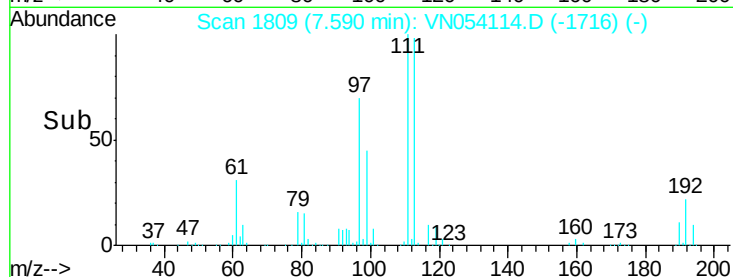
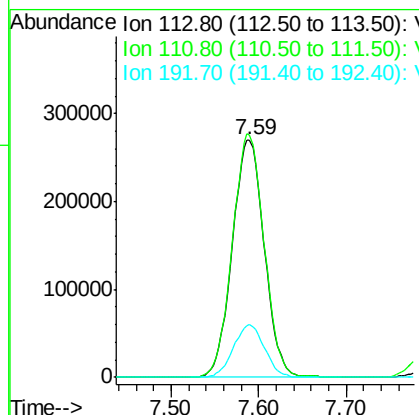
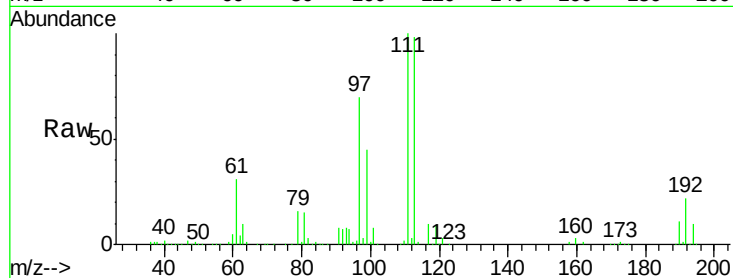
#35
 Dibromofluoromethane
 Concen: 99.314 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN054114.D
 Acq: 6 Mar 2019 11:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
113	100	684674		
111	101.8	82.1	123.1	
192	21.6	17.4	26.0	

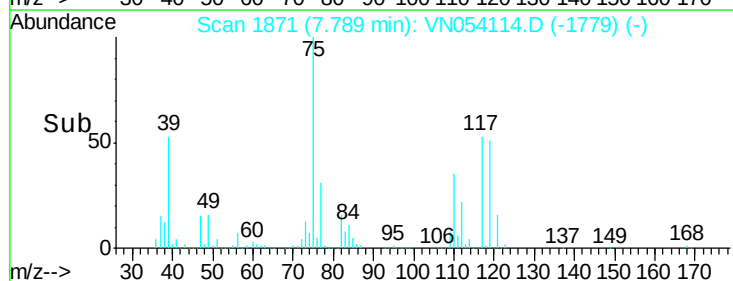
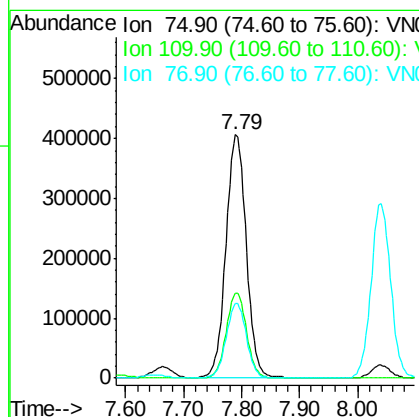
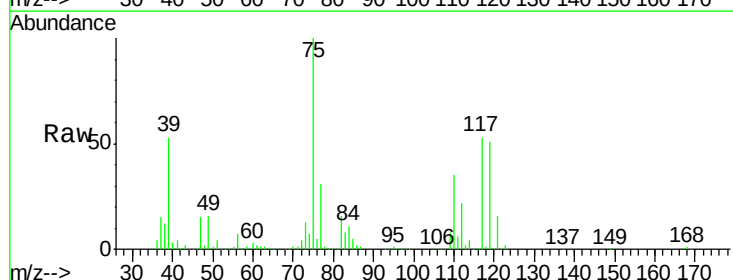
Manual Integrations
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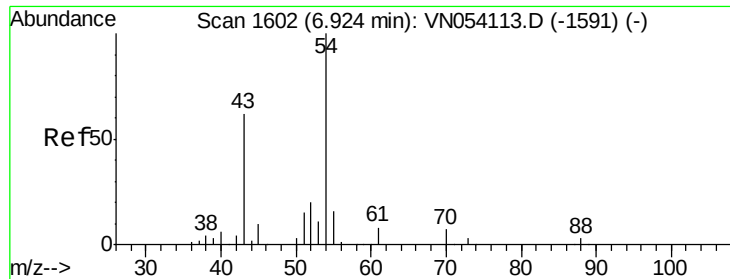
MMDadoda
 3/7/2019 11:38:11 AM



#36
 1,1-Dichloropropene
 Concen: 98.925 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. -0.00 min
 Lab File: VN054114.D
 Acq: 6 Mar 2019 11:56

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	985608		
110	34.9	18.0	54.0	
77	30.7	25.3	37.9	





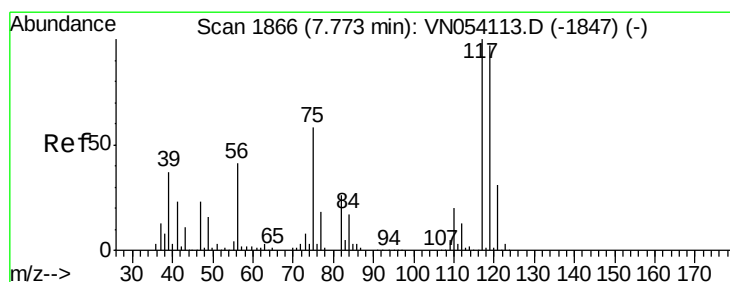
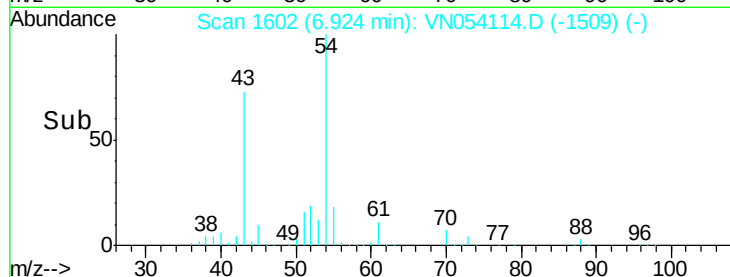
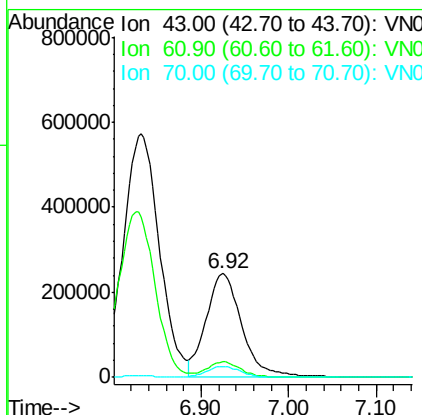
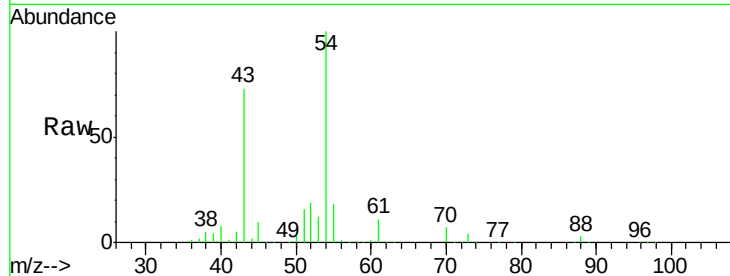
#37
Ethyl Acetate
Concen: 95.856 ug/l
RT: 6.92 min Scan# 1602
Delta R.T. 0.00 min
Lab File: VN054114.D
Acq: 6 Mar 2019 11:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.4	11.1	16.7
70	10.1	7.6	11.4

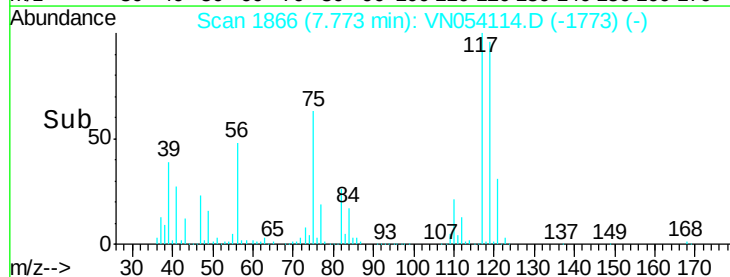
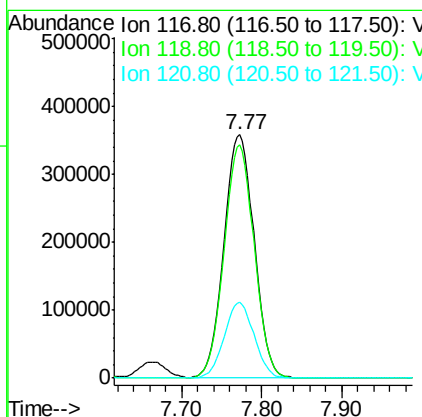
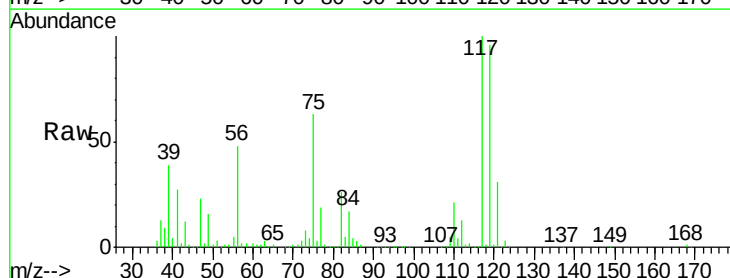
Manual Integrations
APPROVED

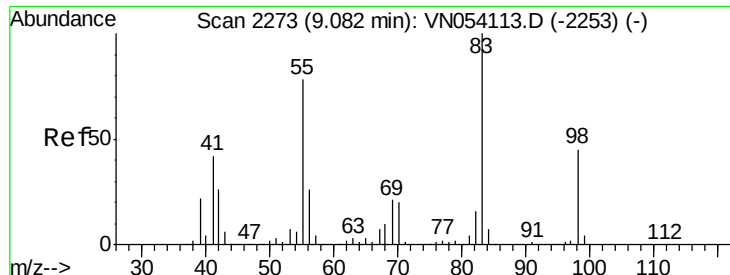
MMDadoda
3/7/2019 11:38:11 AM



#38
Carbon Tetrachloride
Concen: 97.288 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN054114.D
Acq: 6 Mar 2019 11:56

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.9	77.0	115.6
121	31.2	24.3	36.5





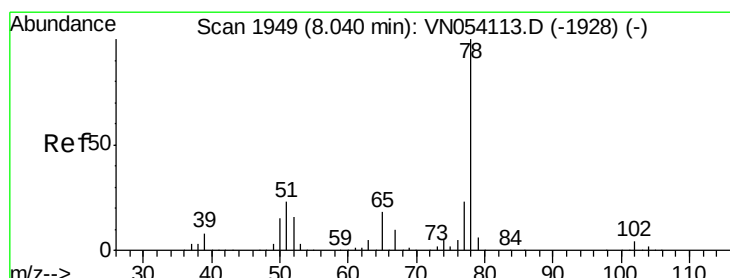
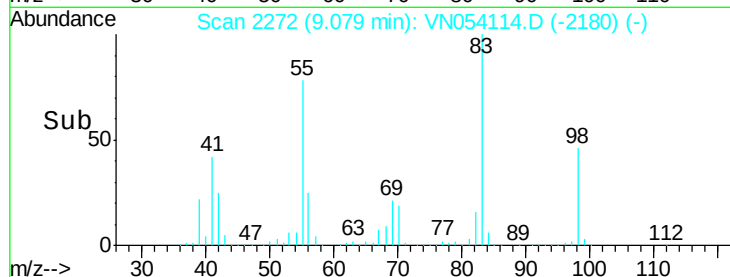
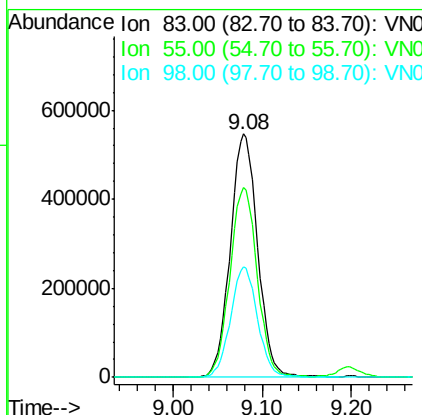
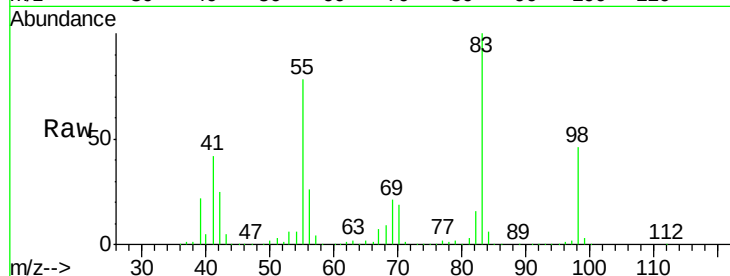
#39
Methylvlcyclohexane
Concen: 101.021 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN054114.D
Acq: 6 Mar 2019 11:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 83 Resp: 1161564
Ion Ratio Lower Upper
83 100
55 78.1 62.1 93.1
98 45.6 36.0 54.0

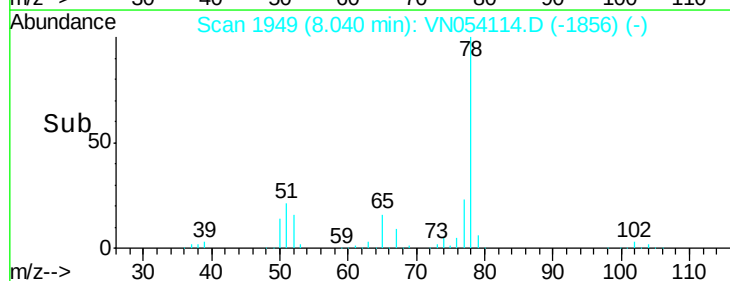
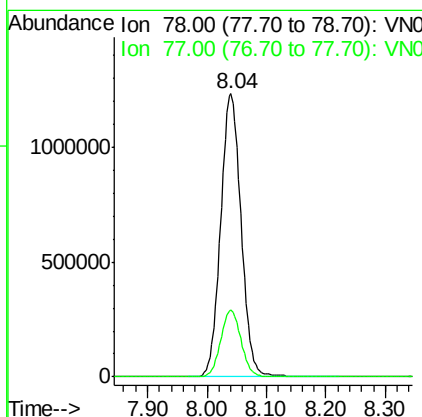
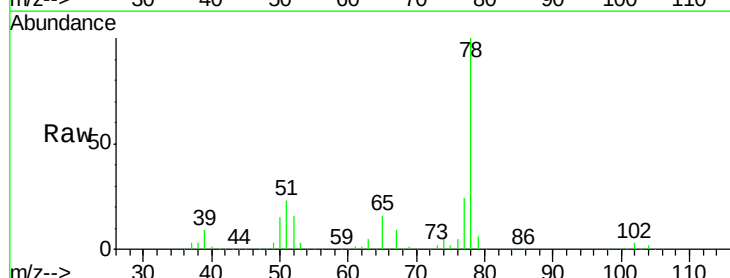
Manual Integrations
APPROVED

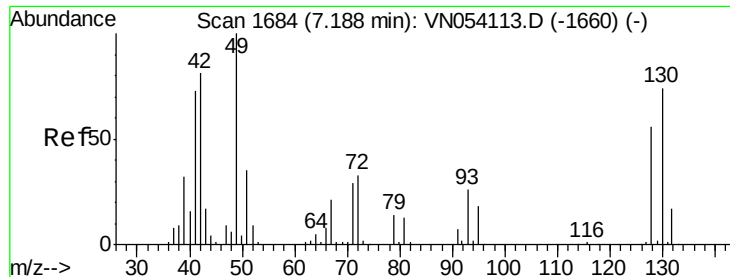
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#40
Benzene
Concen: 99.429 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN054114.D
Acq: 6 Mar 2019 11:56

Tgt Ion: 78 Resp: 2930812
Ion Ratio Lower Upper
78 100
77 23.7 18.7 28.1





#41

Methacrylonitrile

Concen: 85.892 ug/l

RT: 7.17 min Scan# 1679

Delta R.T. -0.02 min

Lab File: VN054114.D

Acq: 6 Mar 2019 11:56

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 41 Resp: 372980

Ion Ratio Lower Upper

41 100

39 63.8 0.0 0.0#

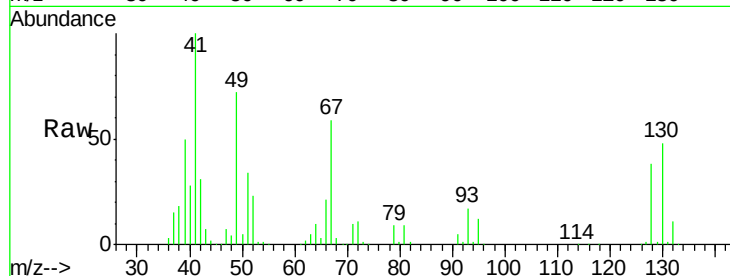
67 81.2 0.0 0.0#

52 32.0 0.0 0.0#

Manual Integrations
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3/7/2019 11:38:11 AM

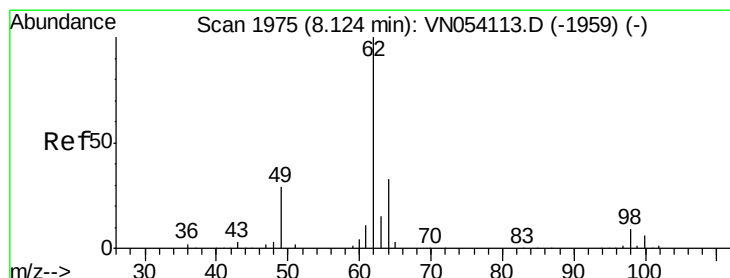
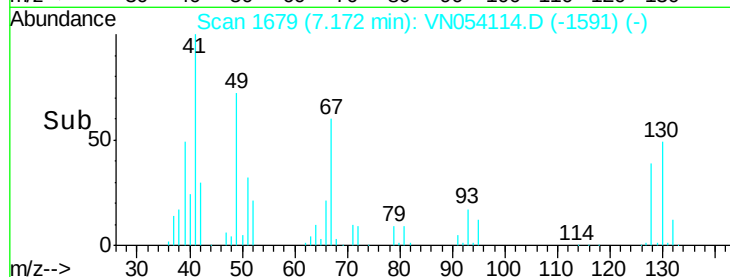
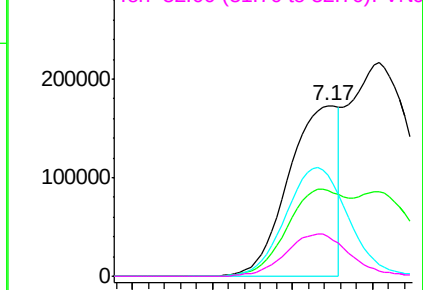


Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

Ion 67.00 (66.70 to 67.70): VNC

Ion 52.00 (51.70 to 52.70): VNC



#42

1,2-Dichloroethane

Concen: 97.216 ug/l

RT: 8.12 min Scan# 1974

Delta R.T. -0.00 min

Lab File: VN054114.D

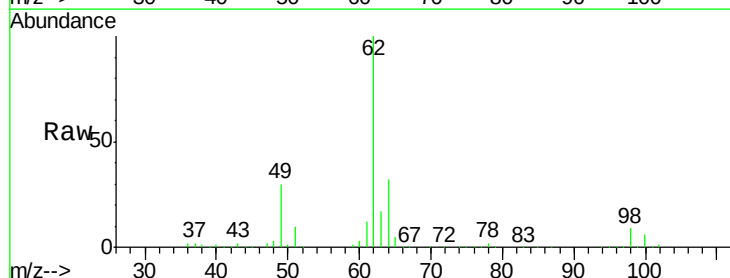
Acq: 6 Mar 2019 11:56

Tgt Ion: 62 Resp: 907728

Ion Ratio Lower Upper

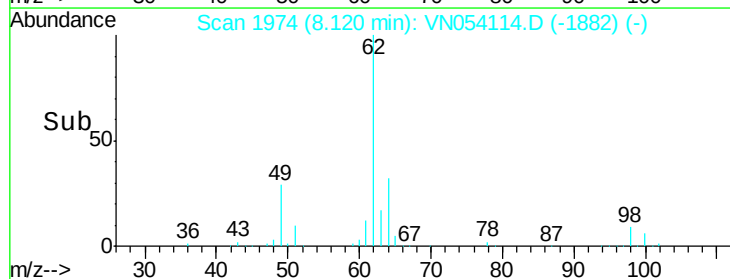
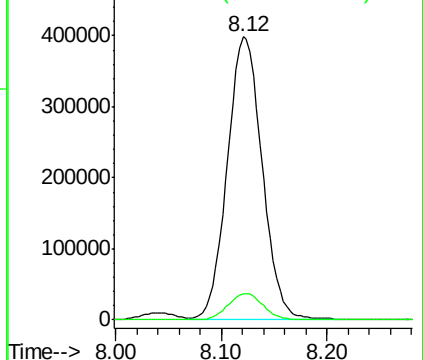
62 100

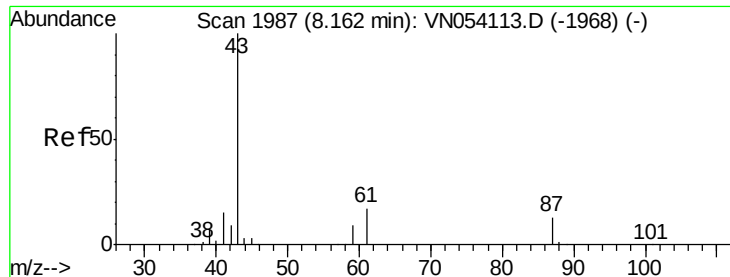
98 9.4 0.0 18.6



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 97.90 (97.60 to 98.60): VNC





#43

Isopropyl Acetate

Concen: 106.487 ug/l

RT: 8.16 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN054114.D

Acq: 6 Mar 2019 11:56

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 43 Resp: 1182208

Ion Ratio Lower Upper

43 100

61 28.4 22.5 33.7

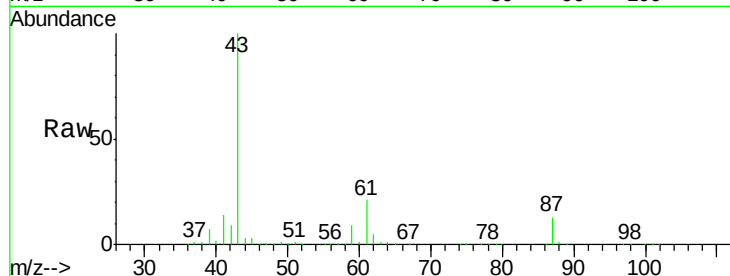
87 12.6 10.1 15.1

Manual Integrations

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3/7/2019 11:38:11 AM

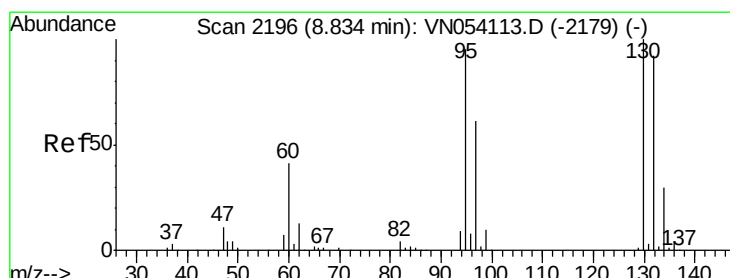
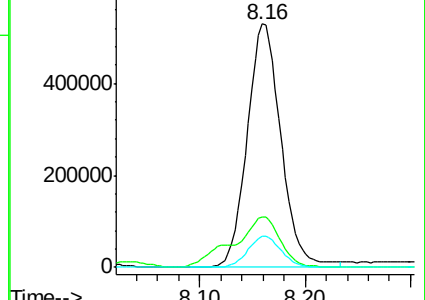
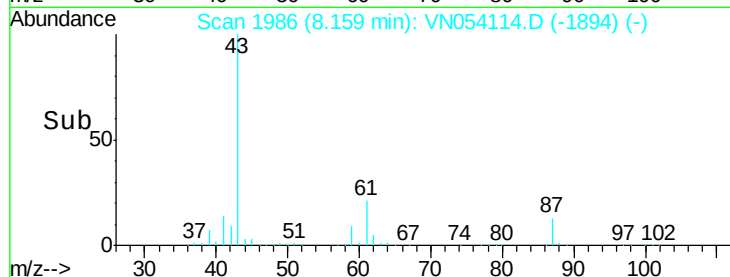


Abundance Ion 43.00 (42.70 to 43.70): VN054114.D (-1968) (-)

Ion 61.00 (60.70 to 61.70): VN054114.D (-1968) (-)

Ion 87.00 (86.70 to 87.70): VN054114.D (-1968) (-)

Time-->



#44

Trichloroethene

Concen: 95.890 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN054114.D

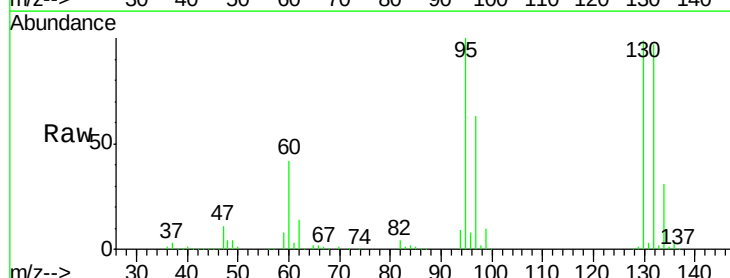
Acq: 6 Mar 2019 11:56

Tgt Ion:130 Resp: 757903

Ion Ratio Lower Upper

130 100

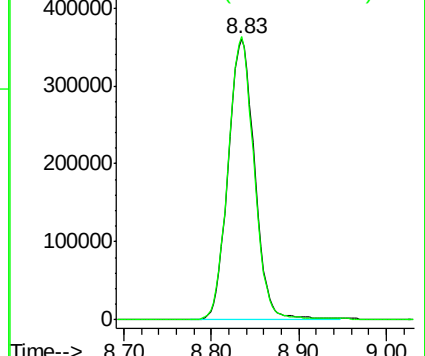
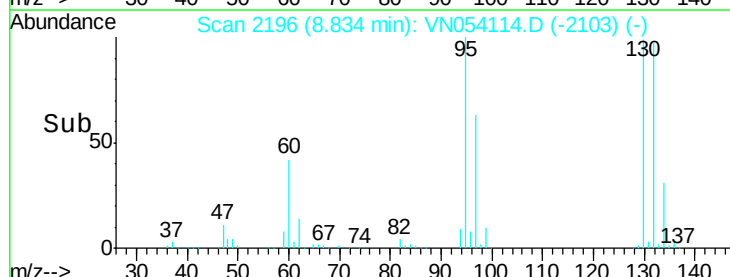
95 100.8 0.0 189.4

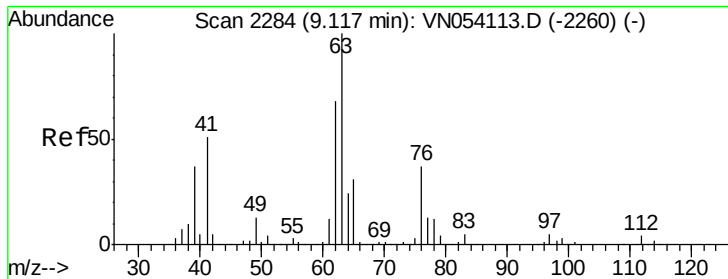


Abundance Ion 129.80 (129.50 to 130.50): VN054114.D (-2103) (-)

Ion 94.90 (94.60 to 95.60): VN054114.D (-2103) (-)

Time-->





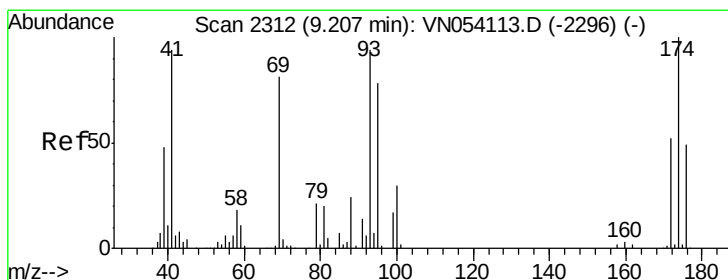
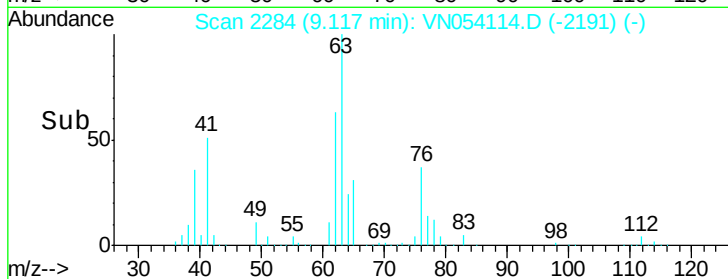
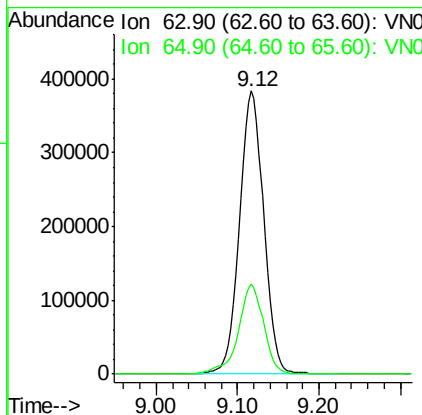
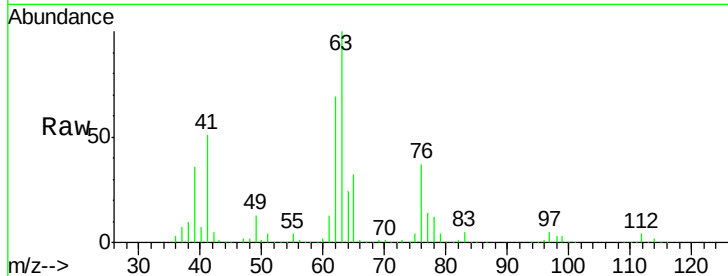
#45
 1,2-Dichloropropane
 Concen: 96.912 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. 0.00 min
 Lab File: VN054114.D
 Acq: 6 Mar 2019 11:56

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.6	24.6	36.8

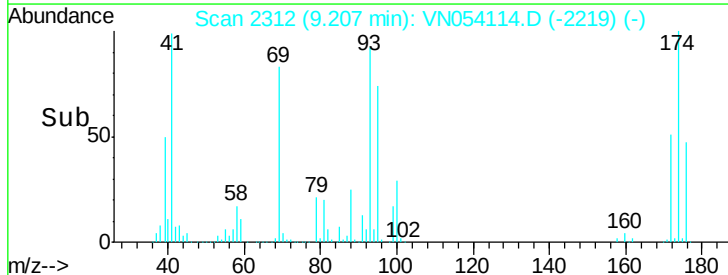
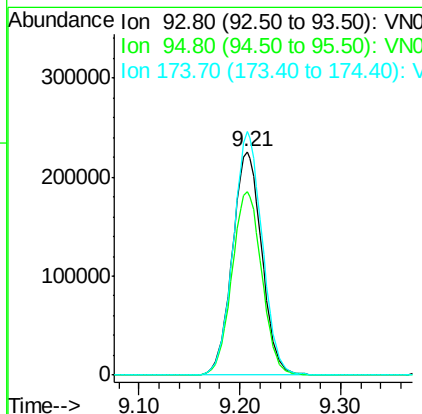
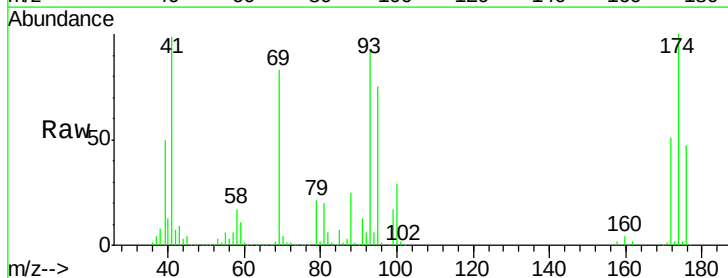
Manual Integrations
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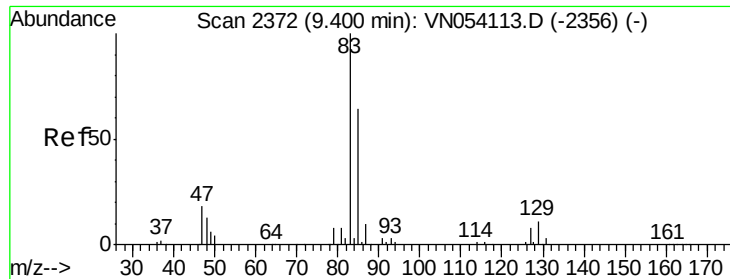
MMDadoda
 3/7/2019 11:38:11 AM



#46
 Dibromomethane
 Concen: 98.537 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN054114.D
 Acq: 6 Mar 2019 11:56

Tgt Ion	Ratio	Lower	Upper
93	100		
95	83.6	66.1	99.1
174	107.1	86.1	129.1





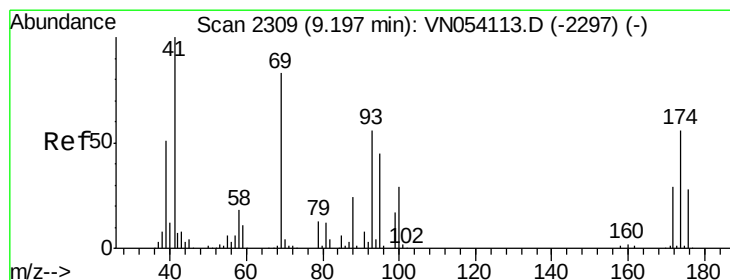
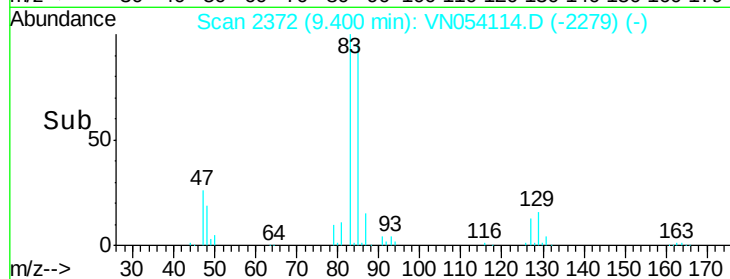
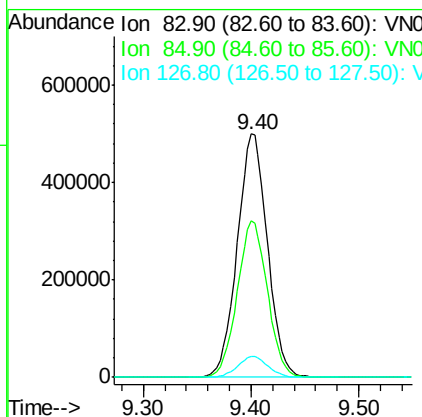
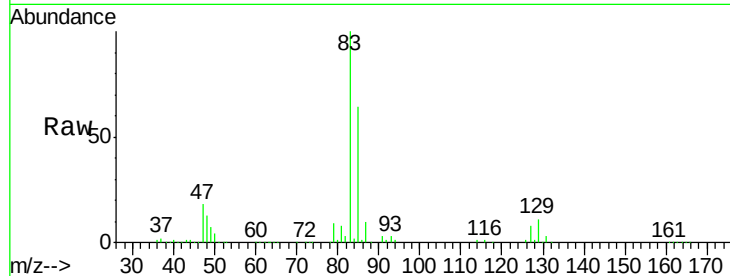
#47
Bromodichloromethane
Concen: 100.102 ug/l
RT: 9.40 min Scan# 2372
Delta R.T. 0.00 min
Lab File: VN054114.D
Acq: 6 Mar 2019 11:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	83	Resp	972535
Ion Ratio	100	Lower	Upper
83	100		
85	64.1	51.0	76.4
127	8.5	6.5	9.7

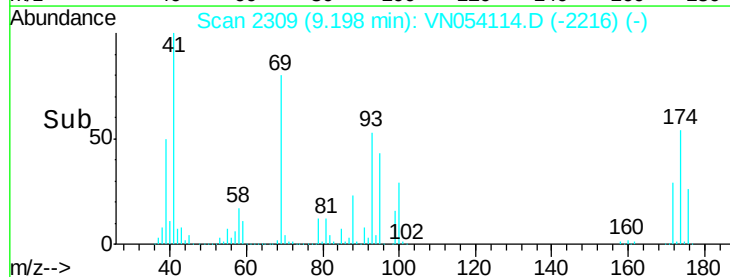
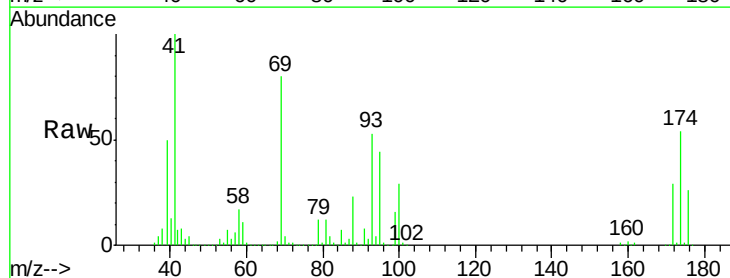
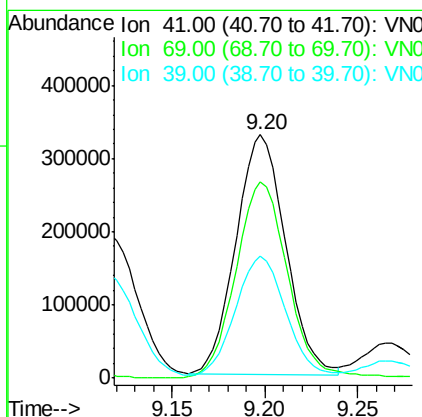
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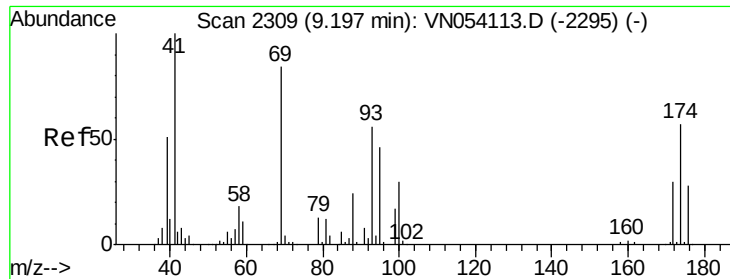
MMDadoda
3/7/2019 11:38:11 AM



#48
Methyl methacrylate
Concen: 110.977 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. 0.00 min
Lab File: VN054114.D
Acq: 6 Mar 2019 11:56

Tgt Ion	41	Resp	608402
Ion Ratio	100	Lower	Upper
41	100		
69	85.1	71.0	106.4
39	52.5	43.7	65.5





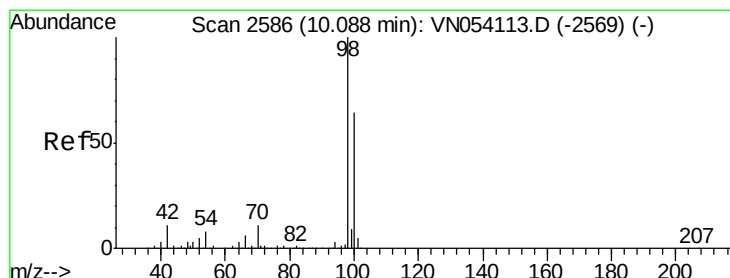
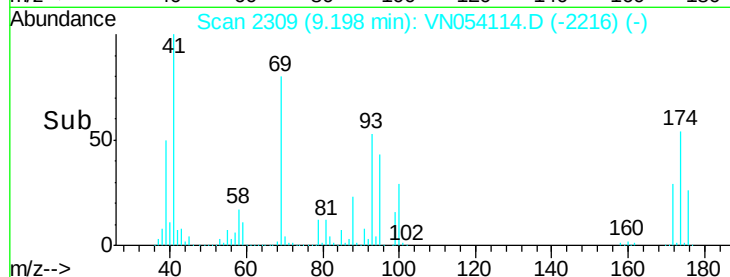
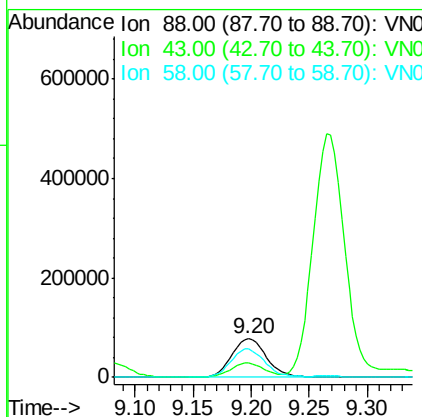
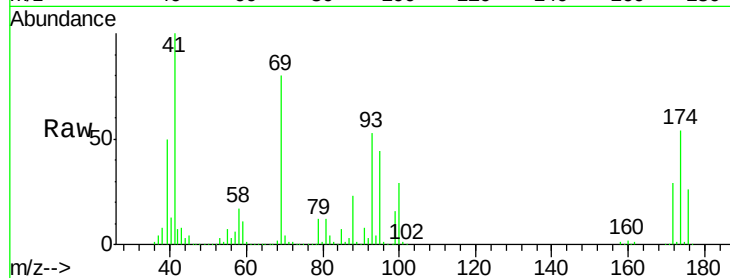
#49
 1,4-Dioxane
 Concen: 2270.404 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. 0.00 min
 Lab File: VN054114.D
 Acq: 6 Mar 2019 11:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	88	Resp	164476
Ion	Ratio	Lower	Upper
88	100		
43	33.6	25.5	38.3
58	71.6	58.3	87.5

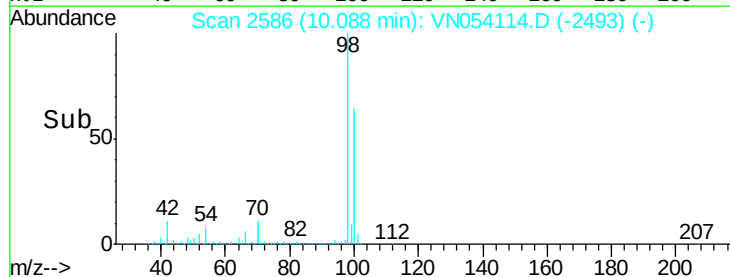
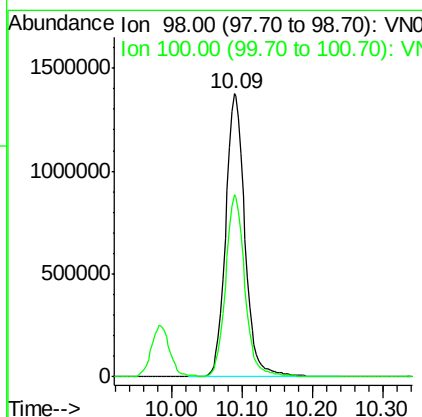
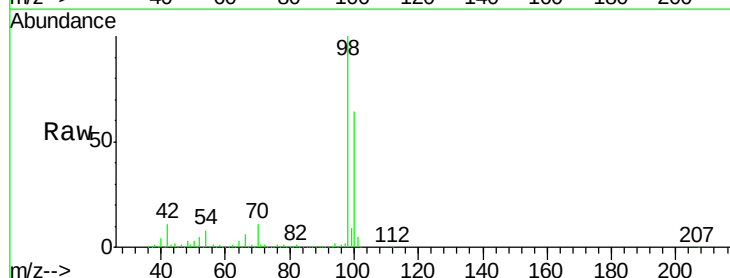
Manual Integrations
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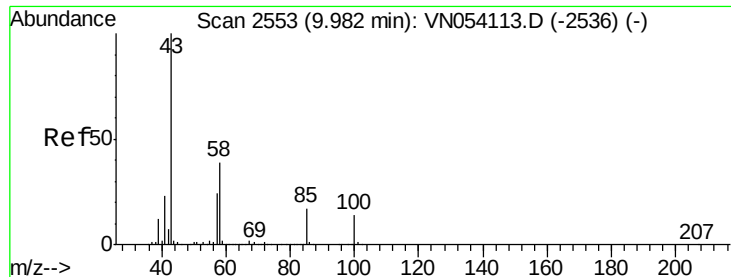
MMDadoda
 3/7/2019 11:38:11 AM



#50
 Toluene-d8
 Concen: 100.618 ug/l
 RT: 10.09 min Scan# 2586
 Delta R.T. 0.00 min
 Lab File: VN054114.D
 Acq: 6 Mar 2019 11:56

Tgt Ion	98	Resp	2634119
Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.7	77.5





#51

4-Methyl-2-Pentanone

Concen: 528.348 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN054114.D

Acq: 6 Mar 2019 11:56

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 43 Resp: 3360594

Ion Ratio Lower Upper

43 100

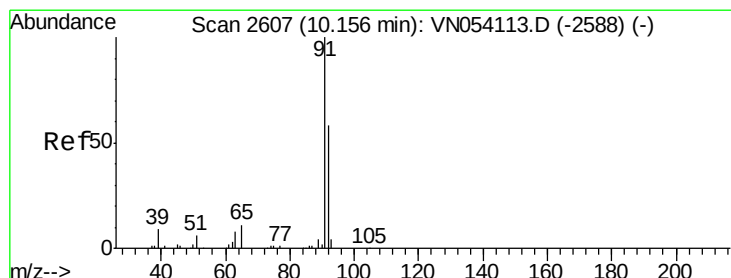
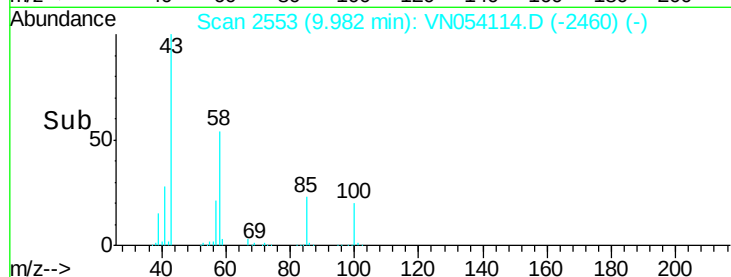
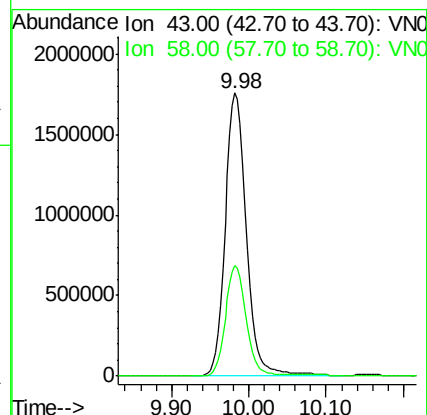
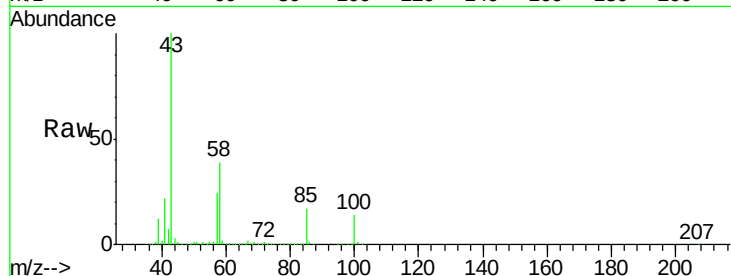
58 38.4 30.8 46.2

Manual Integrations

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MMDadoda

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#52

Toluene

Concen: 100.927 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN054114.D

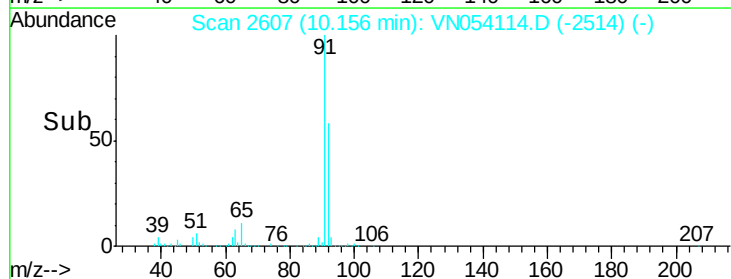
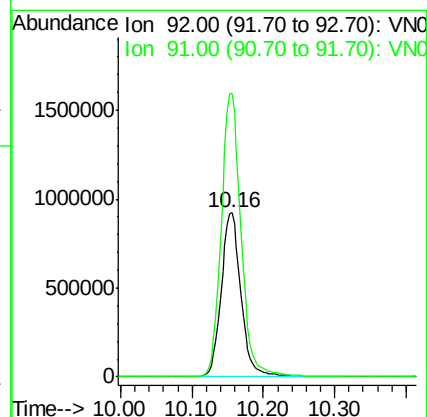
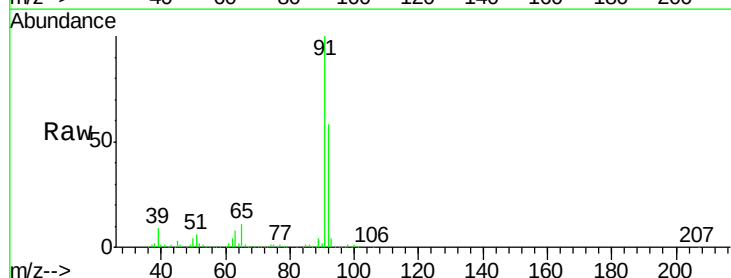
Acq: 6 Mar 2019 11:56

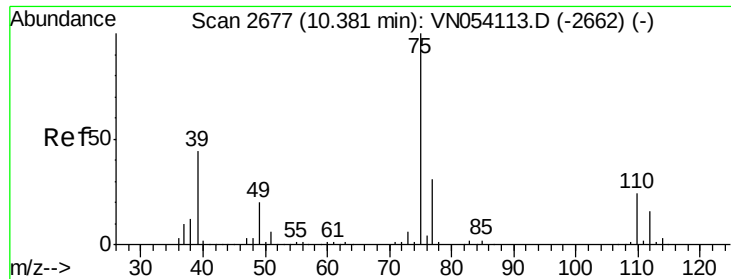
Tgt Ion: 92 Resp: 1762518

Ion Ratio Lower Upper

92 100

91 174.0 139.0 208.6





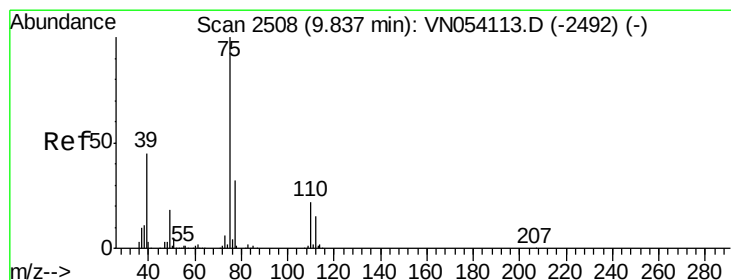
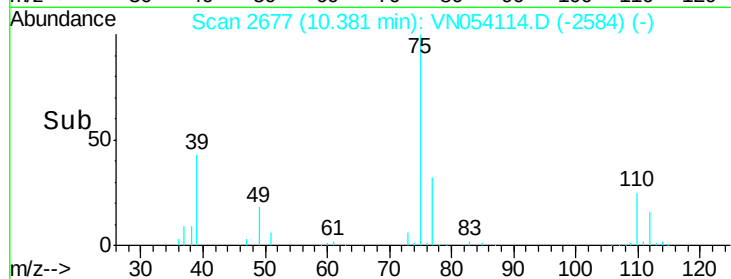
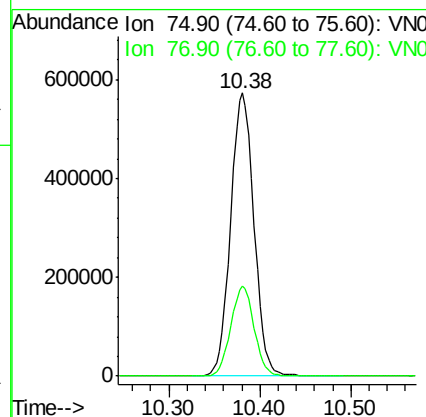
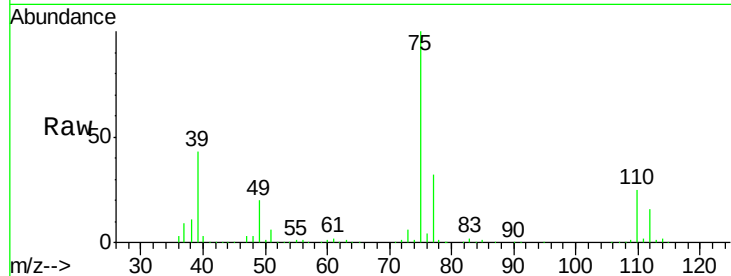
#53
t-1,3-Dichloropropene
Concen: 106.655 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN054114.D
Acq: 6 Mar 2019 11:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 75 Resp: 1022036
Ion Ratio Lower Upper
75 100
77 31.8 24.9 37.3

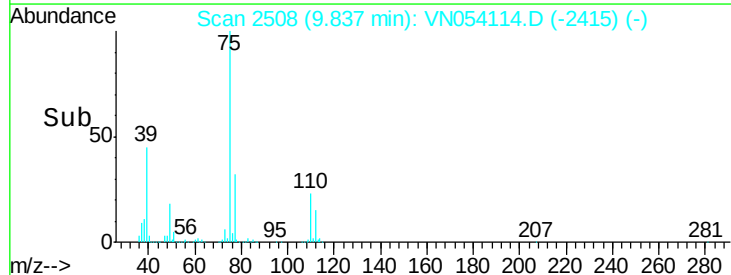
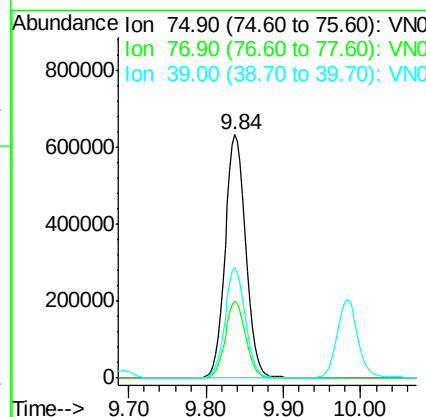
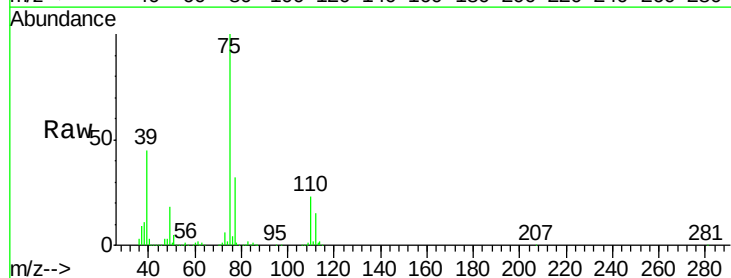
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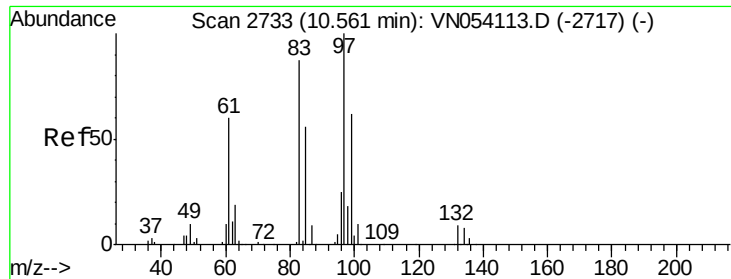
MMDadoda
3/7/2019 11:38:11 AM



#54
cis-1,3-Dichloropropene
Concen: 104.199 ug/l
RT: 9.84 min Scan# 2508
Delta R.T. 0.00 min
Lab File: VN054114.D
Acq: 6 Mar 2019 11:56

Tgt Ion: 75 Resp: 1180120
Ion Ratio Lower Upper
75 100
77 31.9 25.4 38.0
39 45.1 36.2 54.2





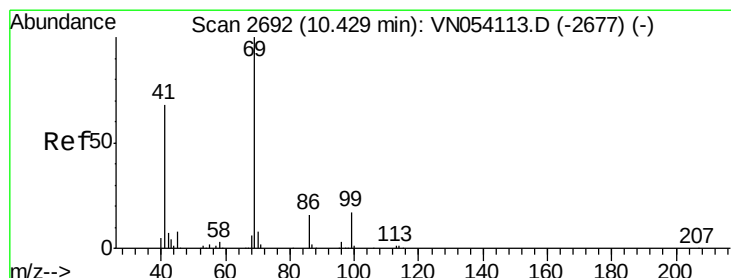
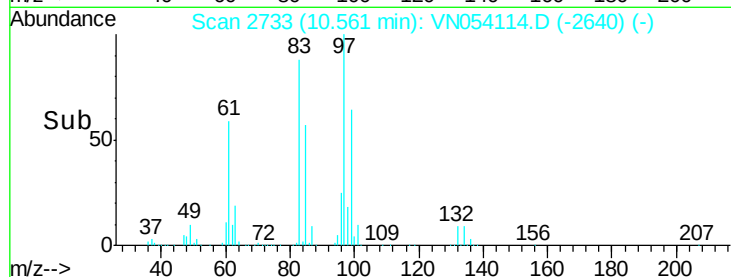
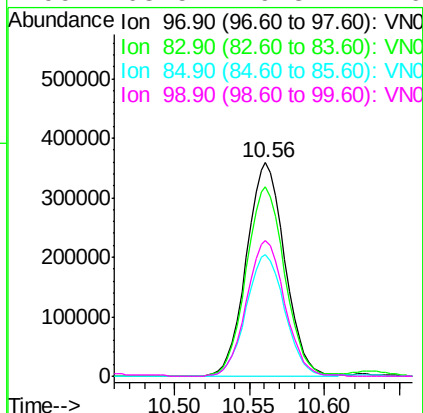
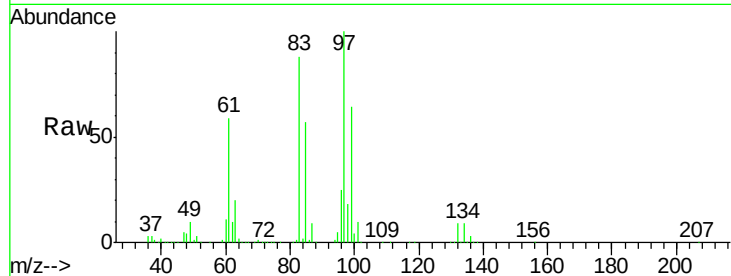
#55
 1,1,2-Trichloroethane
 Concen: 97.370 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN054114.D
 Acq: 6 Mar 2019 11:56

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC100

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		640315		
83	88.5	69.8	104.6		
85	57.1	45.0	67.4		
99	63.5	49.8	74.6		

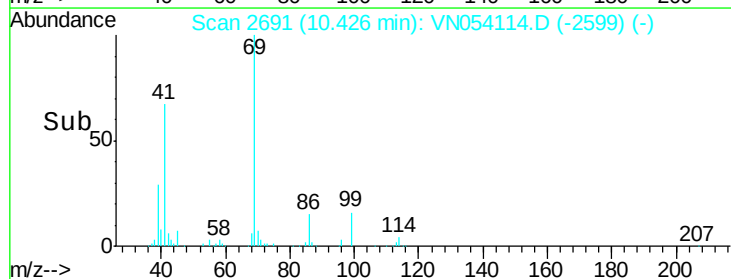
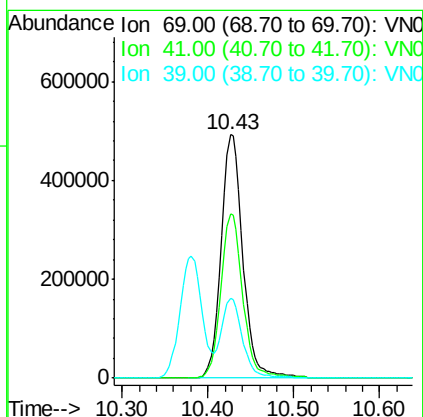
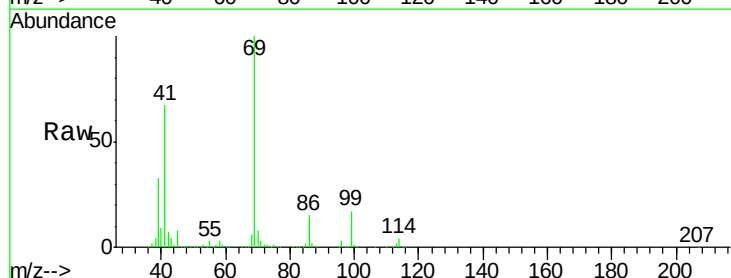
Manual Integrations
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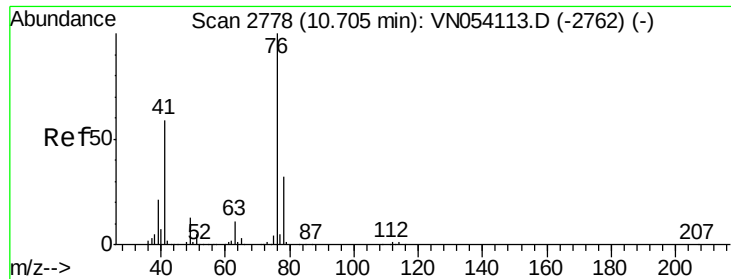
MMDadoda
 3/7/2019 11:38:11 AM



#56
 Ethyl methacrylate
 Concen: 112.428 ug/l
 RT: 10.43 min Scan# 2691
 Delta R.T. -0.00 min
 Lab File: VN054114.D
 Acq: 6 Mar 2019 11:56

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		867911		
41	66.8	53.4	80.2		
39	31.6	25.6	38.4		





#57

1,3-Dichloropropane

Concen: 99.743 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN054114.D

Acq: 6 Mar 2019 11:56

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 76 Resp: 1119137

Ion Ratio Lower Upper

76 100

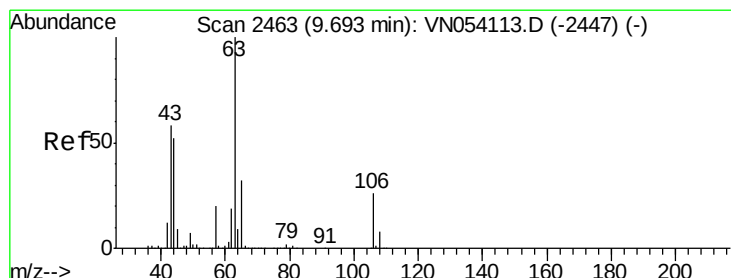
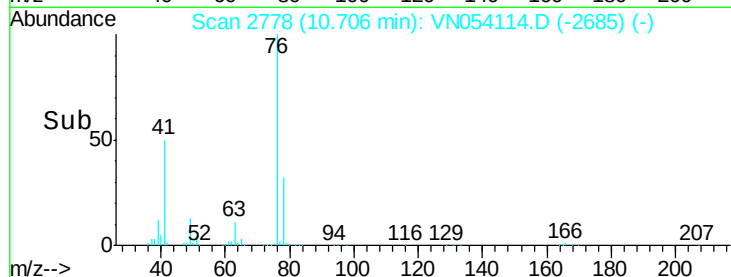
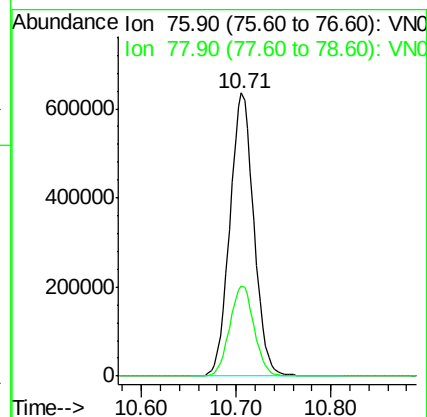
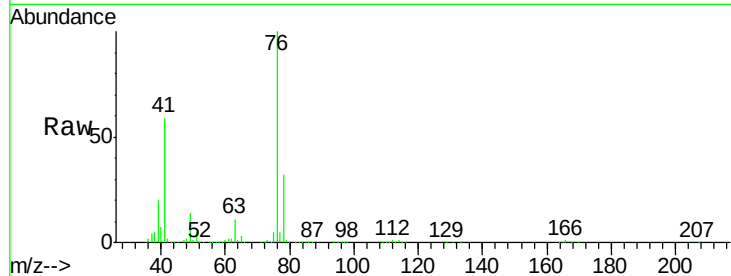
78 32.6 25.9 38.9

Manual Integrations

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MMDadoda

3/7/2019 11:38:11 AM



#58

2-Chloroethyl Vinyl ether

Concen: 562.811 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. 0.00 min

Lab File: VN054114.D

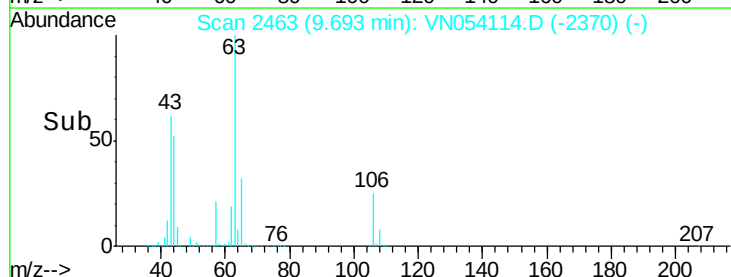
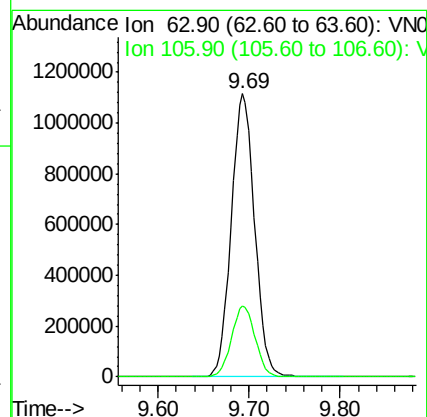
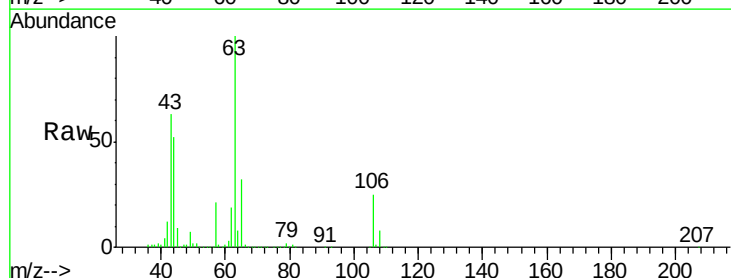
Acq: 6 Mar 2019 11:56

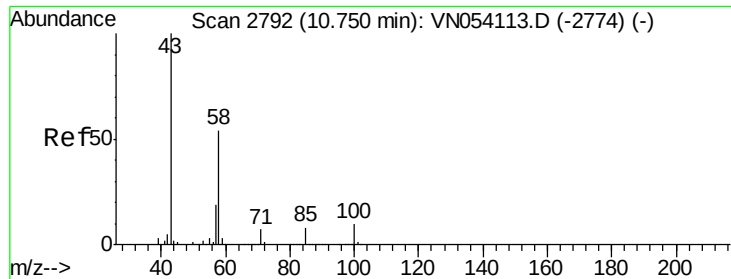
Tgt Ion: 63 Resp: 1988658

Ion Ratio Lower Upper

63 100

106 25.4 20.2 30.2





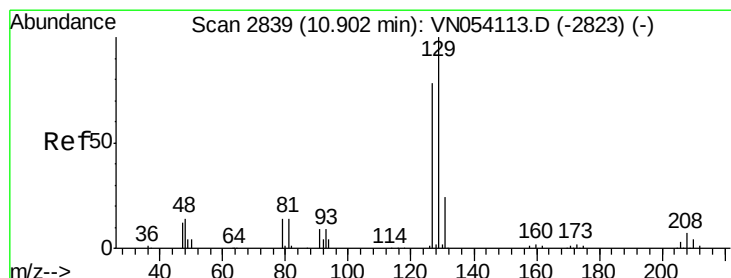
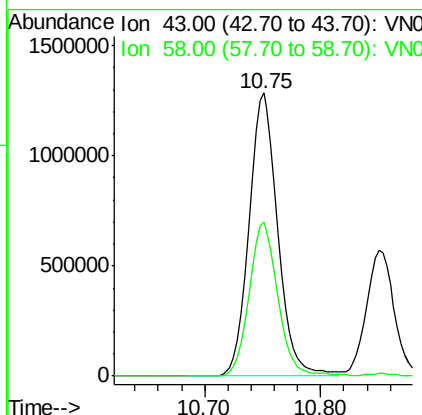
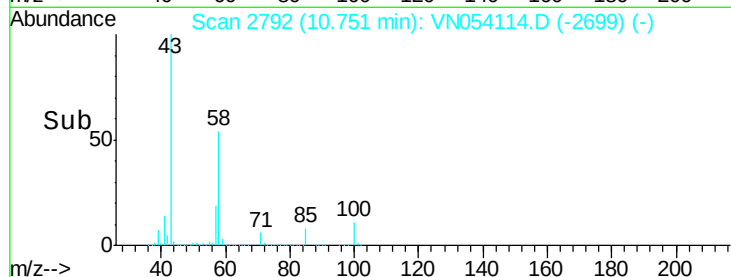
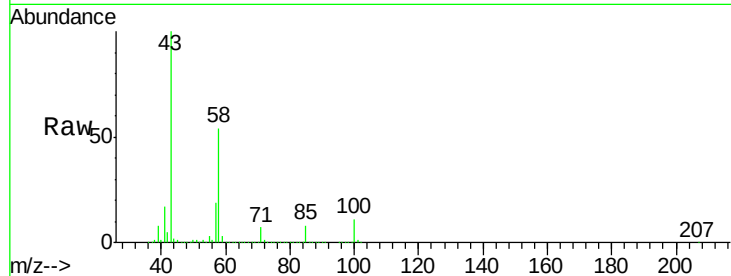
#59
2-Hexanone
Concen: 529.966 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN054114.D
Acq: 6 Mar 2019 11:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 43 Resp: 2223804
Ion Ratio Lower Upper
43 100
58 54.4 27.0 81.0

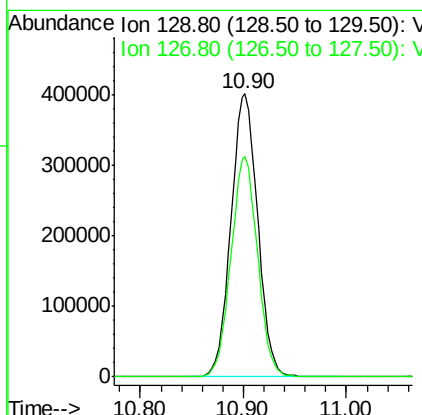
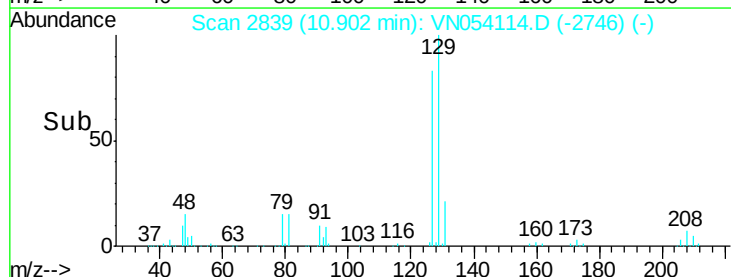
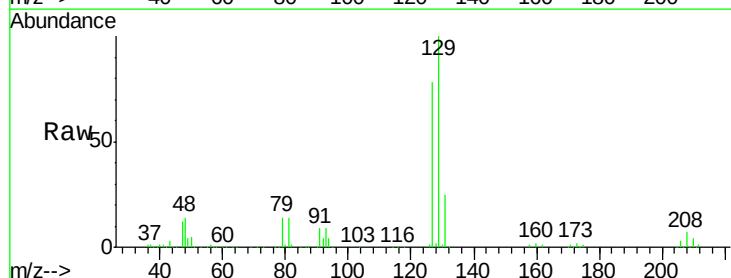
Manual Integrations
APPROVED

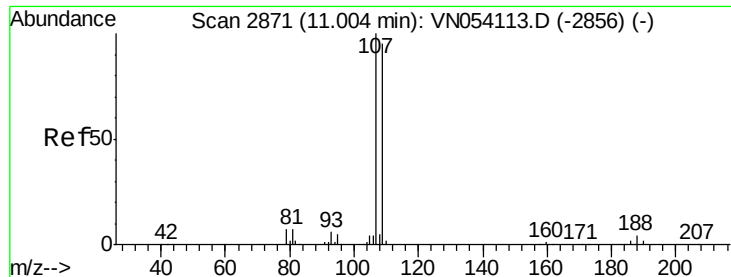
MMDadoda
3/7/2019 11:38:11 AM



#60
Dibromochloromethane
Concen: 103.193 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN054114.D
Acq: 6 Mar 2019 11:56

Tgt Ion:129 Resp: 725598
Ion Ratio Lower Upper
129 100
127 77.3 38.8 116.4





#61

1,2-Dibromoethane

Concen: 101.428 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VN054114.D

Acq: 6 Mar 2019 11:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 107 Resp: 634654

Ion Ratio Lower Upper

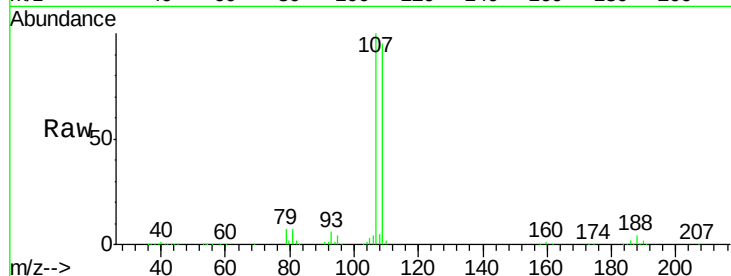
107 100

109 94.7 74.9 112.3

Manual Integrations
APPROVED

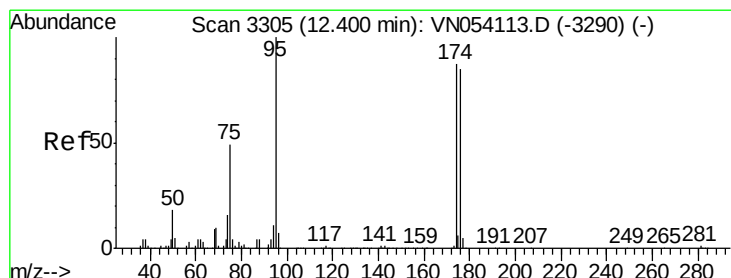
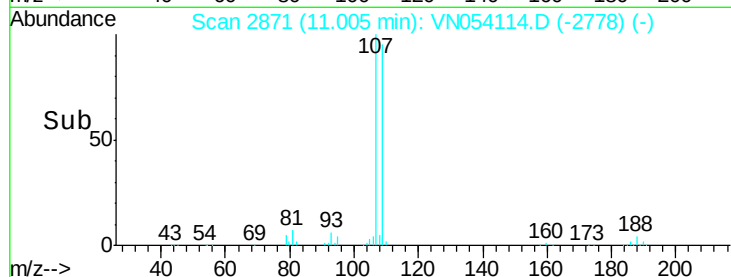
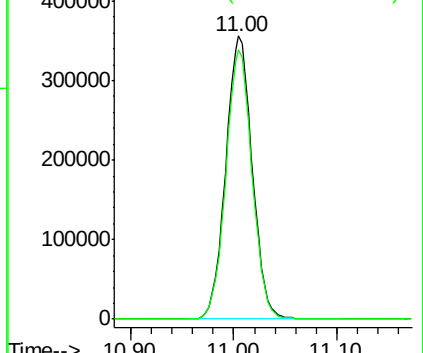
MMDadoda

3/7/2019 11:38:11 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 103.749 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054114.D

Acq: 6 Mar 2019 11:56

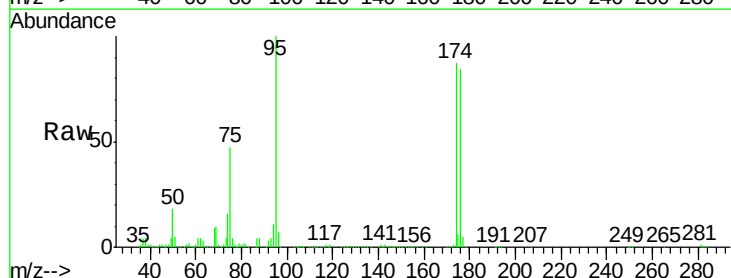
Tgt Ion: 95 Resp: 884287

Ion Ratio Lower Upper

95 100

174 87.9 0.0 173.2

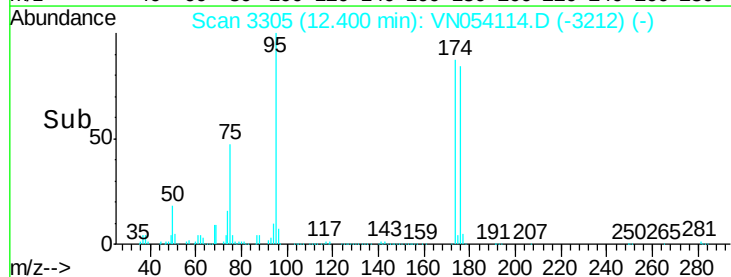
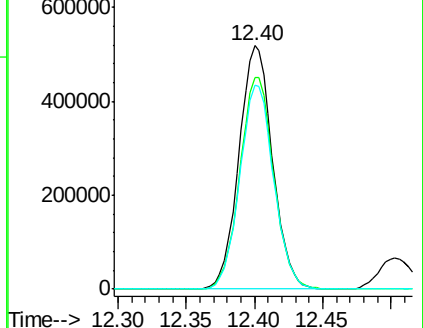
176 84.7 0.0 168.8

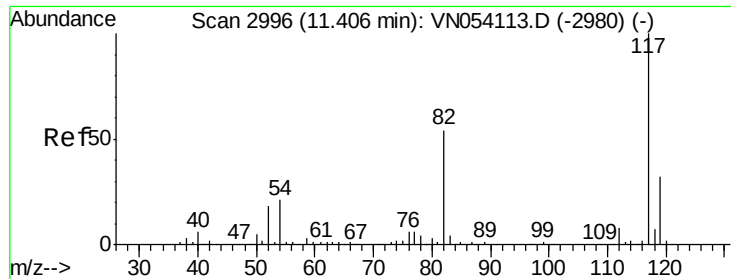


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





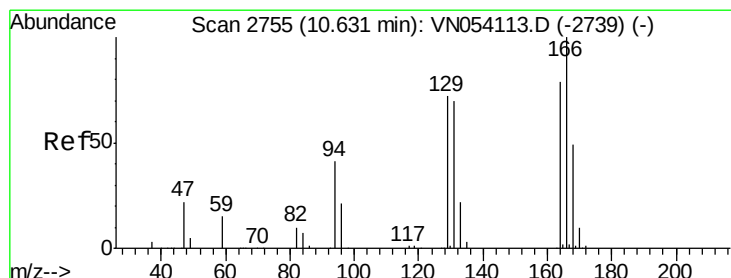
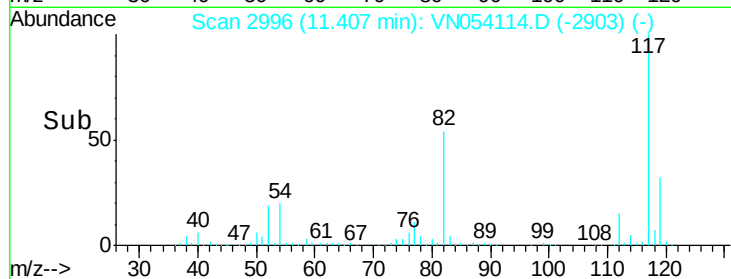
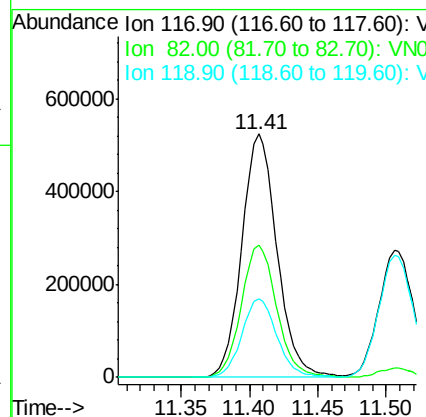
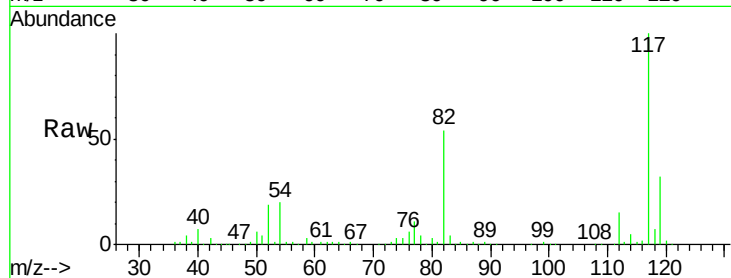
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054114.D
Acq: 6 Mar 2019 11:56

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.5	43.4	65.2
119	32.2	26.0	39.0

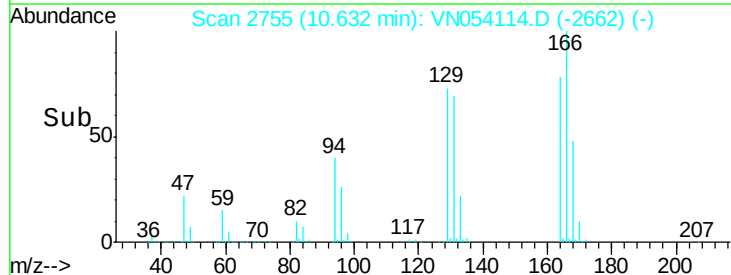
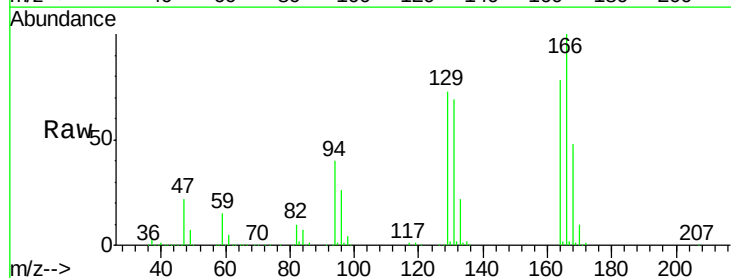
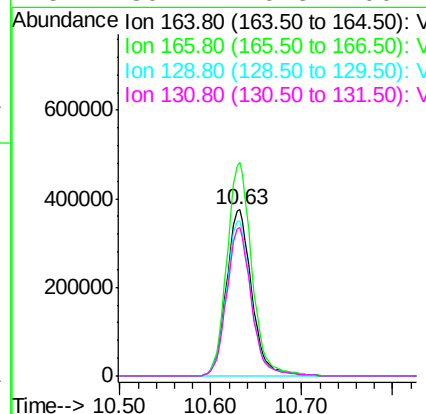
Manual Integrations
APPROVED

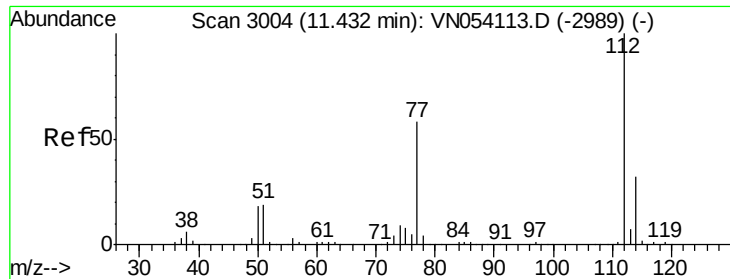
MMDadoda
3/7/2019 11:38:11 AM



#64
Tetrachloroethene
Concen: 93.011 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN054114.D
Acq: 6 Mar 2019 11:56

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.7	101.3	151.9
129	93.4	73.2	109.8
131	89.4	70.8	106.2





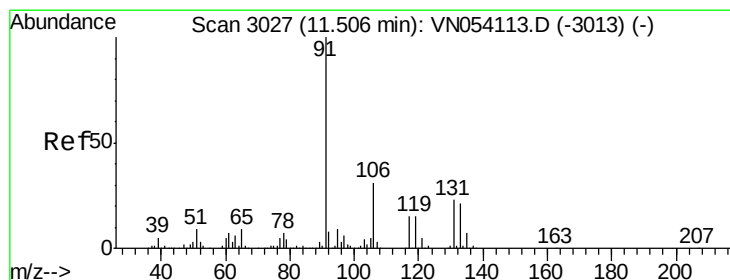
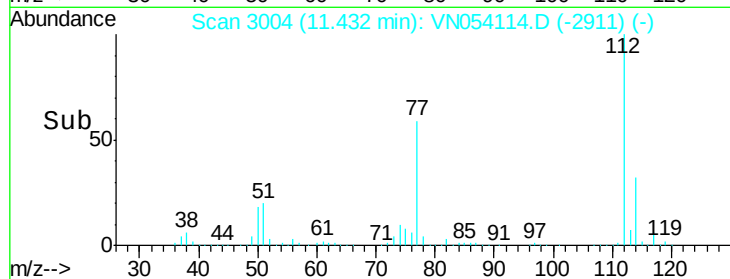
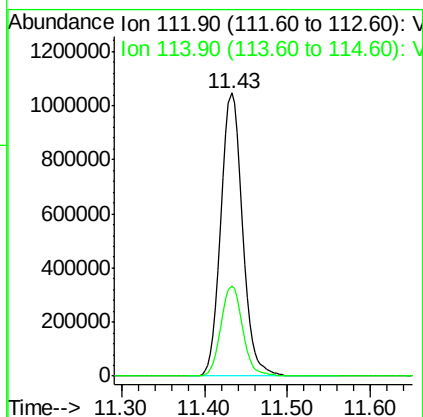
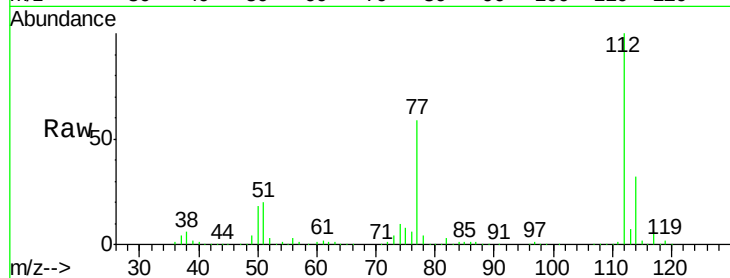
#65
Chlorobenzene
Concen: 96.347 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN054114.D
Acq: 6 Mar 2019 11:56

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion:112 Resp: 1888661
Ion Ratio Lower Upper
112 100
114 32.0 25.4 38.0

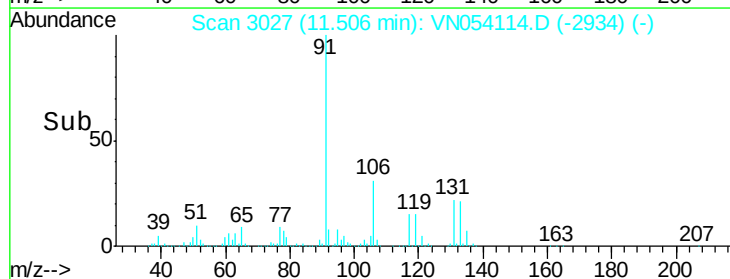
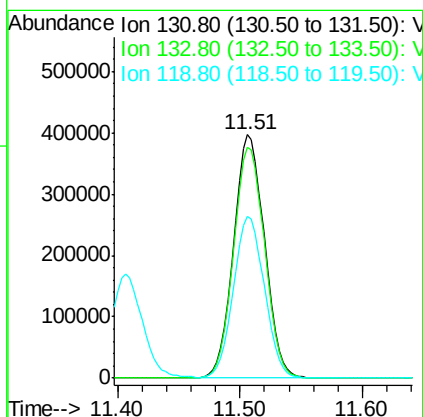
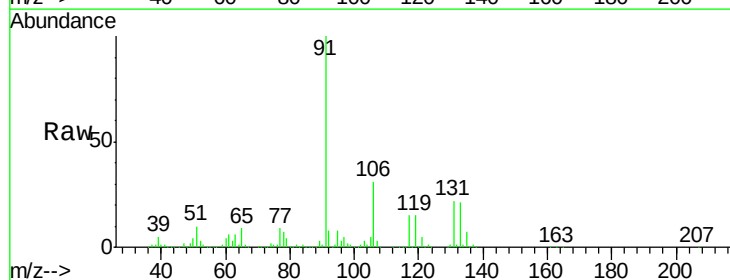
Manual Integrations
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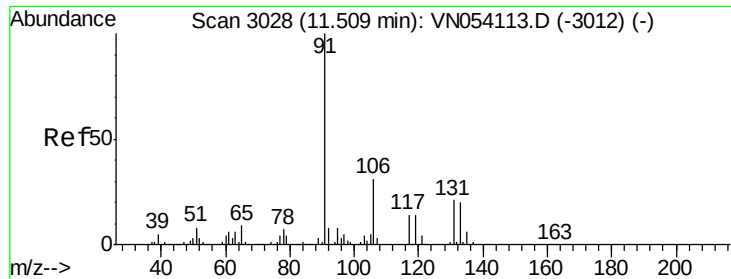
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 99.260 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. 0.00 min
Lab File: VN054114.D
Acq: 6 Mar 2019 11:56

Tgt Ion:131 Resp: 696525
Ion Ratio Lower Upper
131 100
133 95.5 47.6 142.9
119 66.7 33.8 101.3





#67

Ethyl Benzene

Concen: 100.163 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN054114.D

Acq: 6 Mar 2019 11:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 91 Resp: 3285590

Ion Ratio Lower Upper

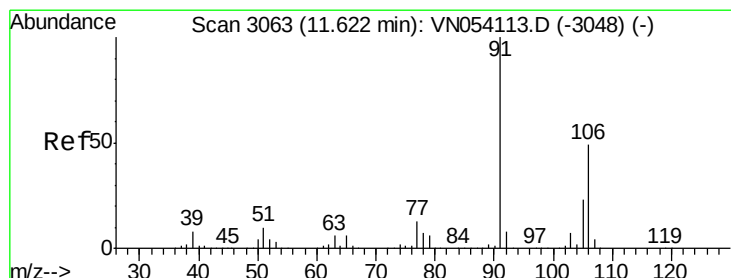
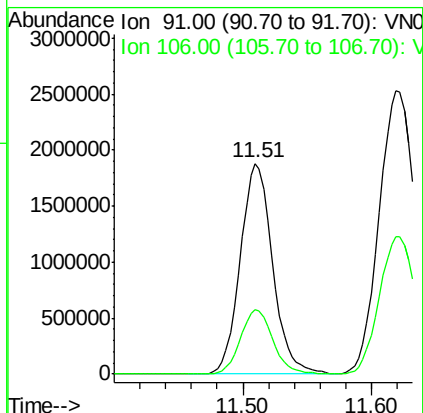
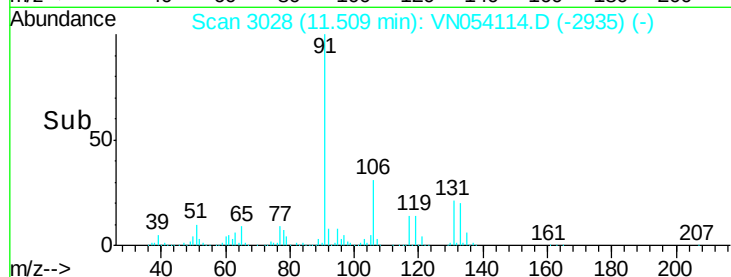
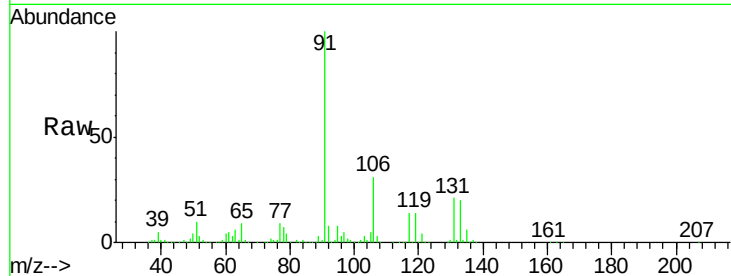
91 100

106 30.7 24.6 36.8

Manual Integrations
APPROVED

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#68

m/p-Xylenes

Concen: 200.473 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN054114.D

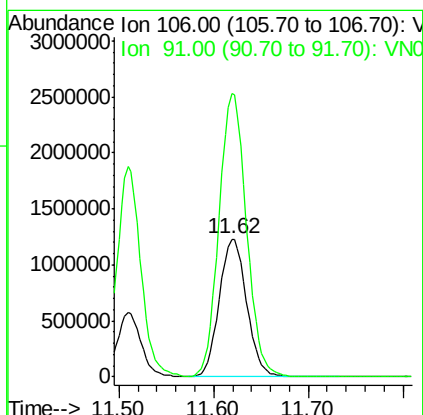
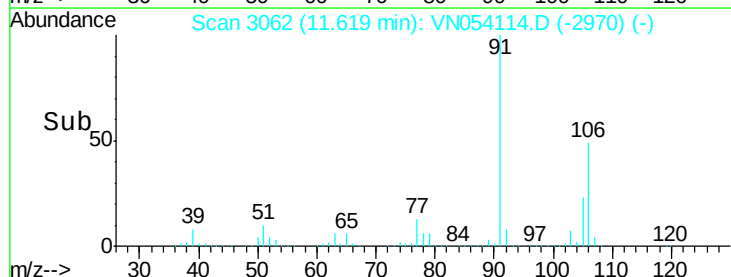
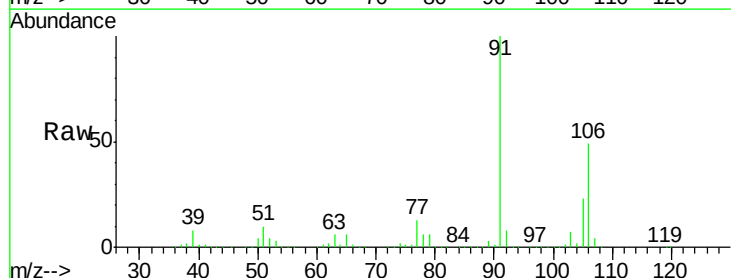
Acq: 6 Mar 2019 11:56

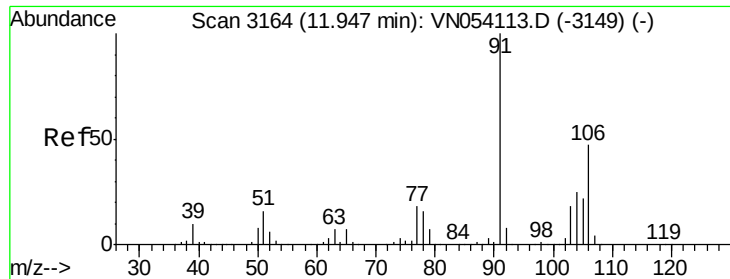
Tgt Ion: 106 Resp: 2481631

Ion Ratio Lower Upper

106 100

91 205.0 163.2 244.8





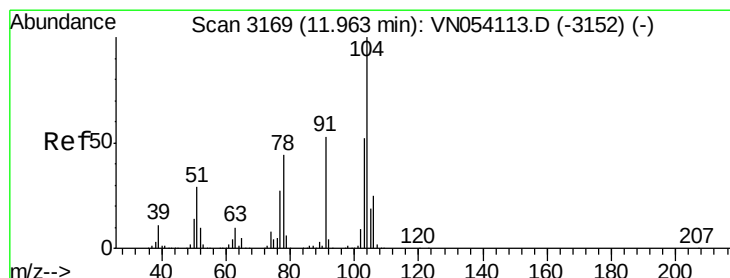
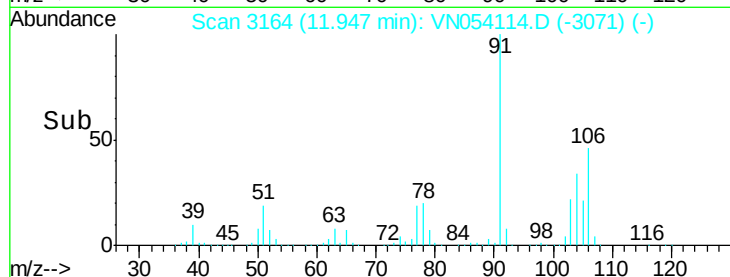
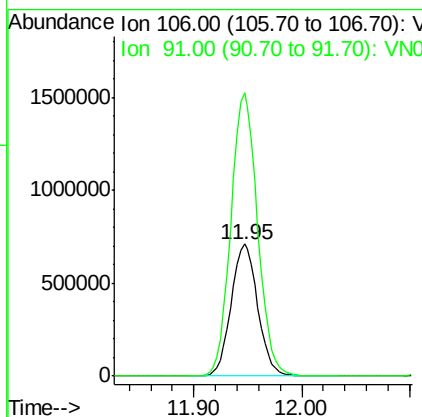
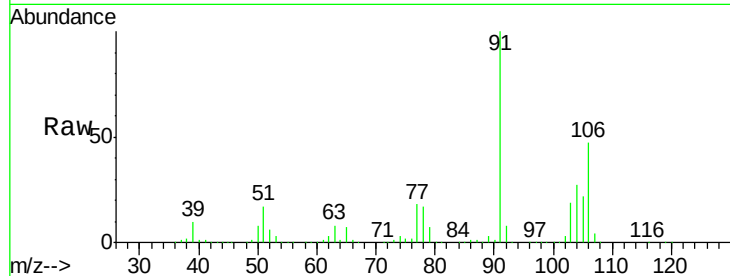
#69
o-Xylene
Concen: 102.055 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN054114.D
Acq: 6 Mar 2019 11:56

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion:106 Resp: 1215672
Ion Ratio Lower Upper
106 100
91 214.5 107.1 321.3

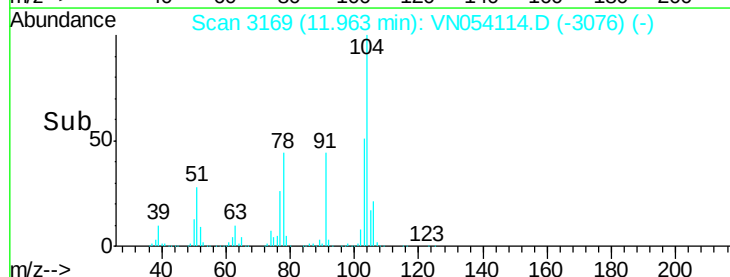
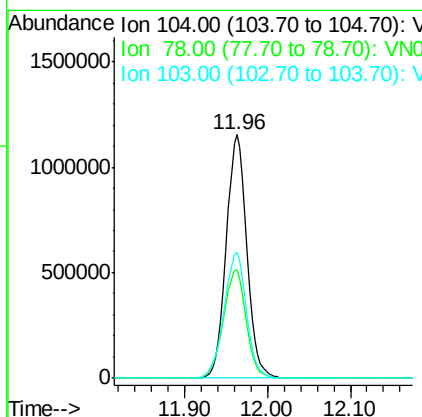
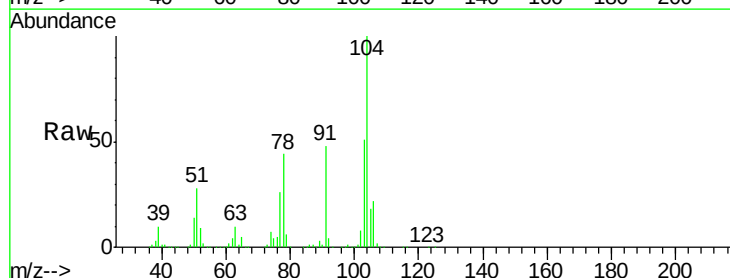
Manual Integrations
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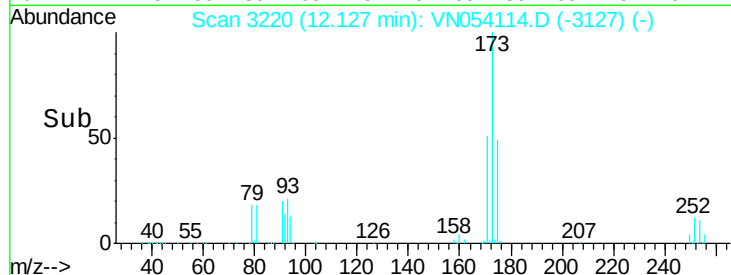
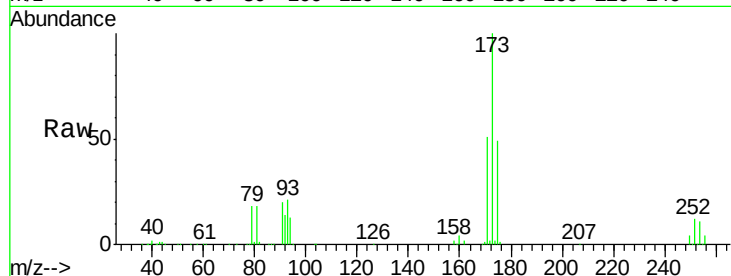
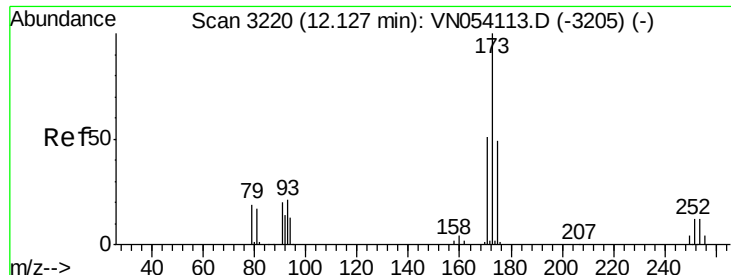
MMDadoda
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#70
Styrene
Concen: 105.210 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN054114.D
Acq: 6 Mar 2019 11:56

Tgt Ion:104 Resp: 1989379
Ion Ratio Lower Upper
104 100
78 49.0 39.4 59.0
103 55.7 44.7 67.1





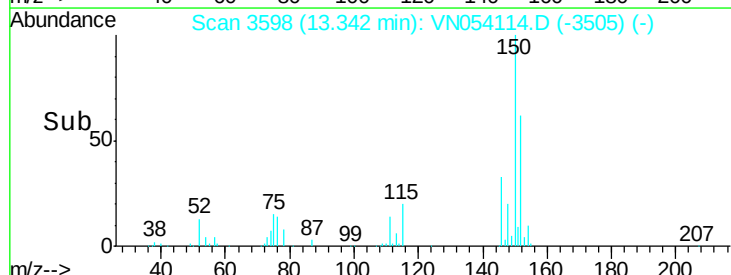
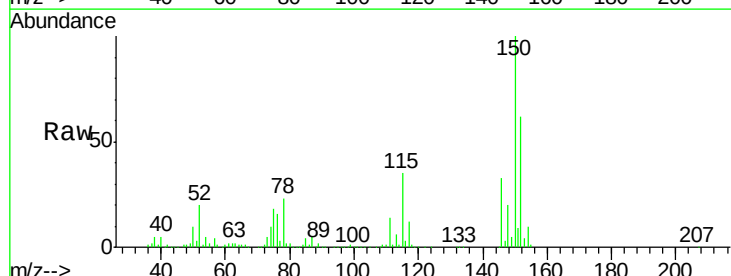
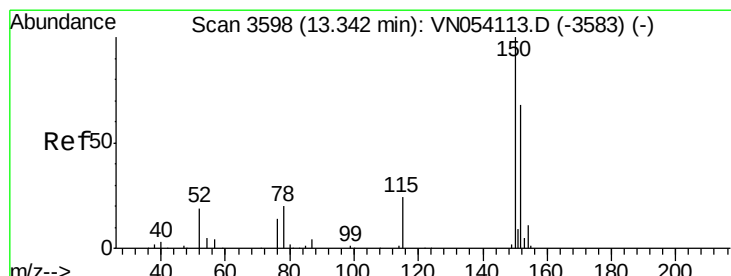
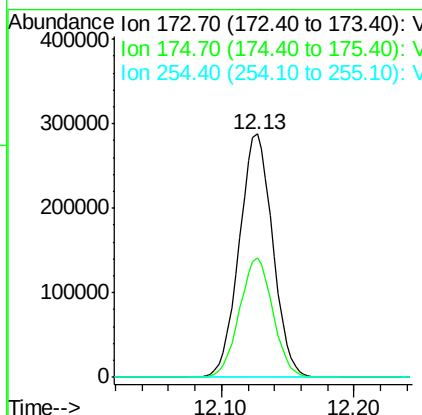
#71
Bromoform
Concen: 104.494 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN054114.D
Acq: 6 Mar 2019 11:56

Tot Ion	Ratio	Resp	Lower	Upper
173	100	504650		
175	48.9	24.1	72.2	
254	0.1	0.0	0.0#	

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

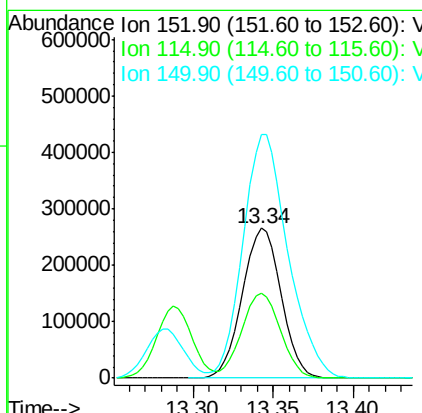
Manual Integrations
APPROVED

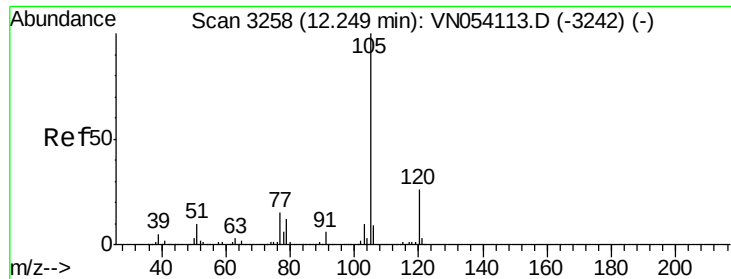
MMDadoda
3/7/2019 11:38:11 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN054114.D
Acq: 6 Mar 2019 11:56

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	439158		
115	56.8	28.5	85.6	
150	189.1	0.0	343.2	





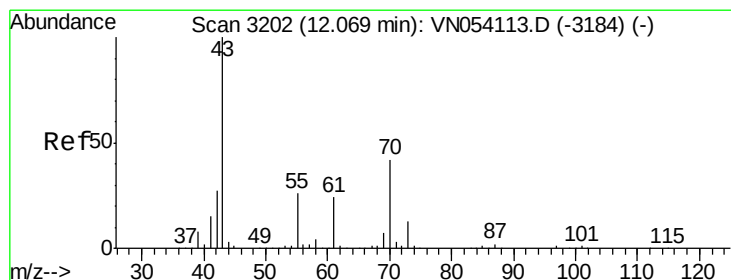
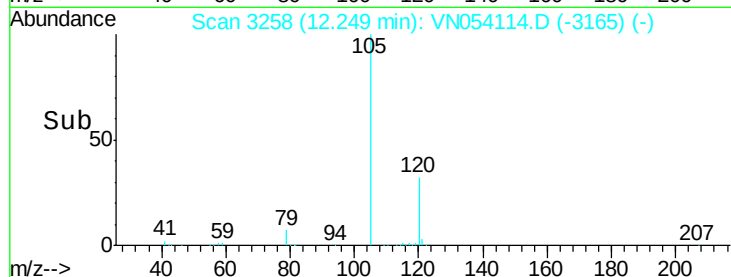
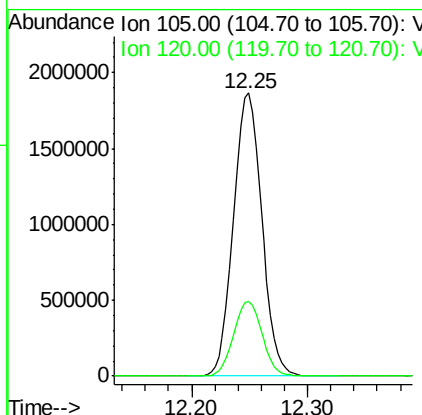
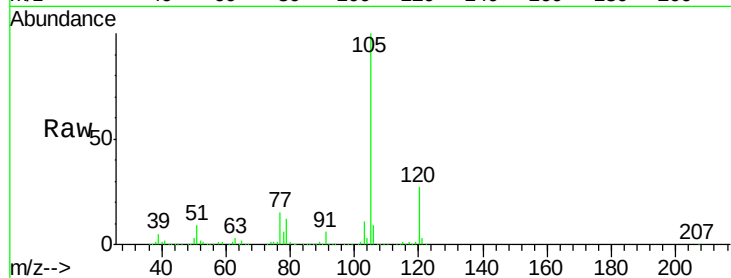
#73
Isopropylbenzene
Concen: 90.119 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN054114.D
Acq: 6 Mar 2019 11:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion:105 Resp: 3149061
Ion Ratio Lower Upper
105 100
120 26.6 13.3 39.8

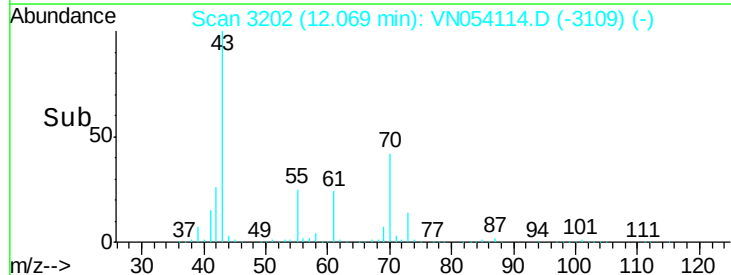
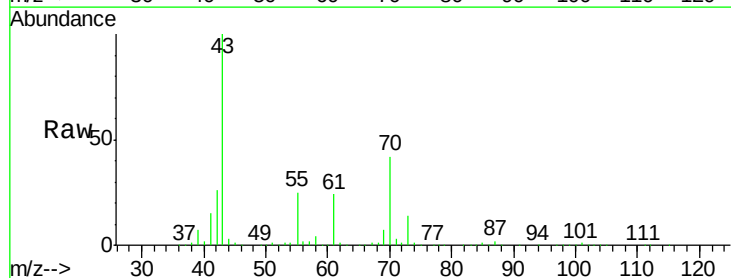
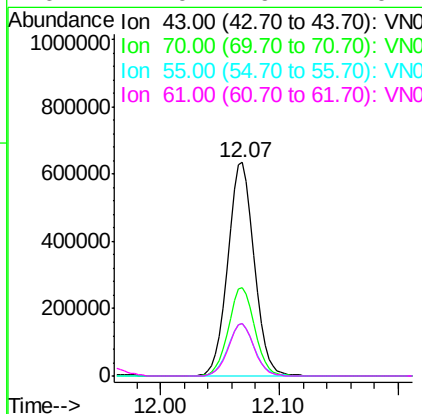
Manual Integrations
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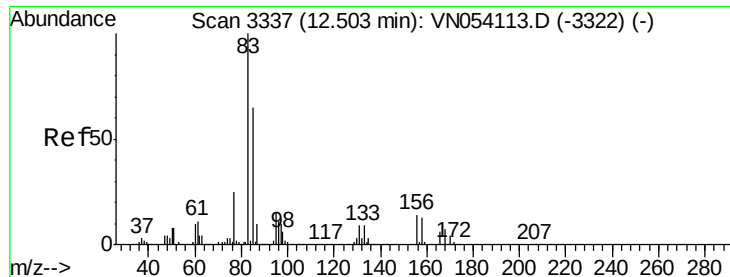
MMDadoda
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#74
N-ethyl acetate
Concen: 104.917 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN054114.D
Acq: 6 Mar 2019 11:56

Tgt Ion: 43 Resp: 970956
Ion Ratio Lower Upper
43 100
70 41.6 33.6 50.4
55 24.9 20.6 31.0
61 24.0 19.4 29.2





#75

1,1,2,2-Tetrachloroethane

Concen: 86.427 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN054114.D

Acq: 6 Mar 2019 11:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 83 Resp: 786038
Ion Ratio Lower Upper

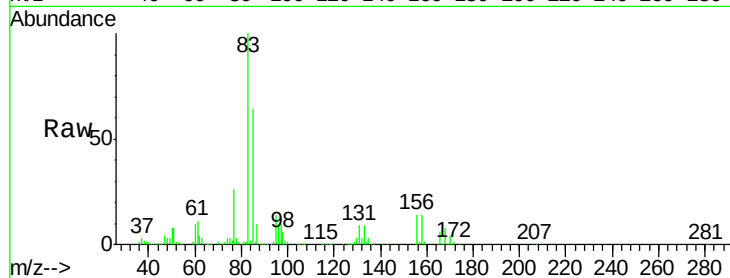
83 100

131 9.9 5.0 14.9

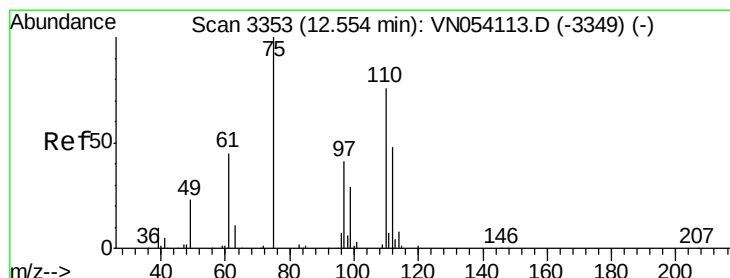
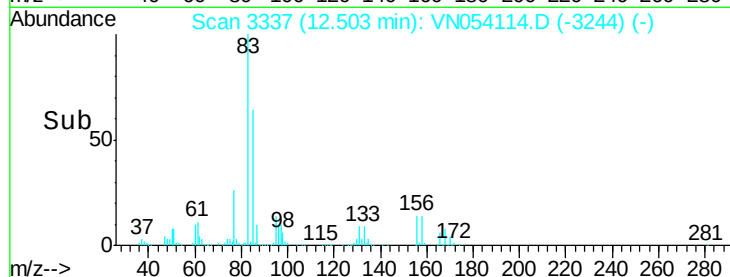
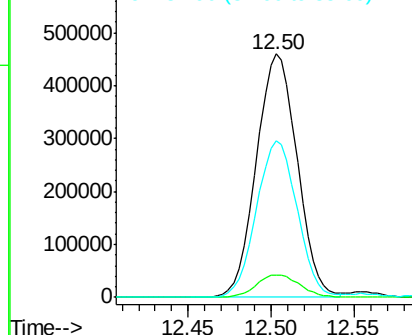
85 64.4 32.4 97.0

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



#76

1,2,3-Trichloropropane

Concen: 95.518 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

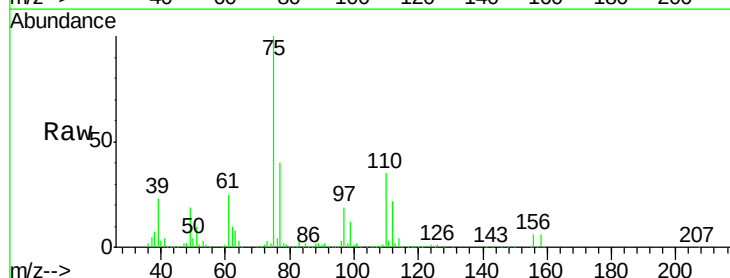
Lab File: VN054114.D

Acq: 6 Mar 2019 11:56

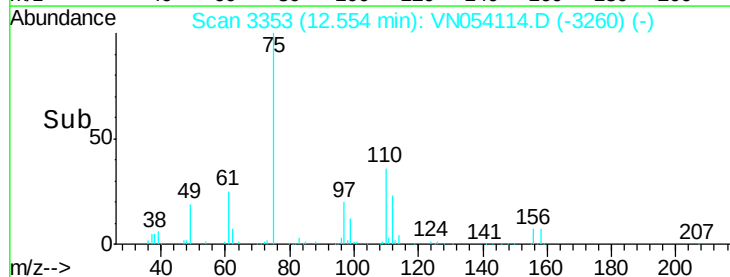
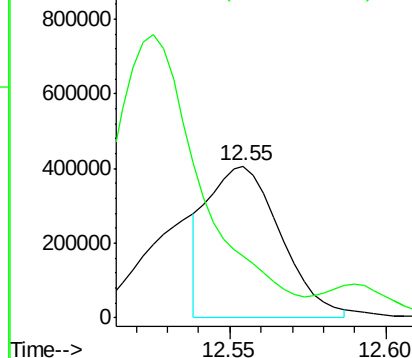
Tgt Ion: 75 Resp: 655850
Ion Ratio Lower Upper

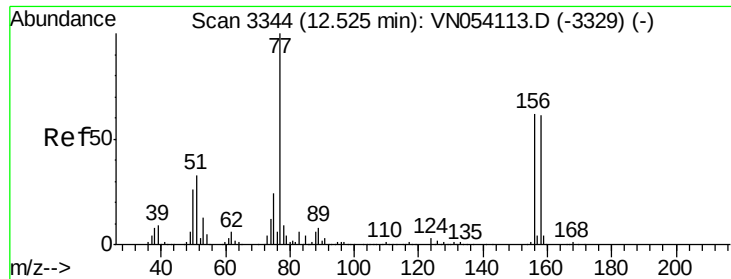
75 100

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): VN





#77

Bromobenzene

Concen: 88.497 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN054114.D

Acq: 6 Mar 2019 11:56

Instrument :

MSVOA_N

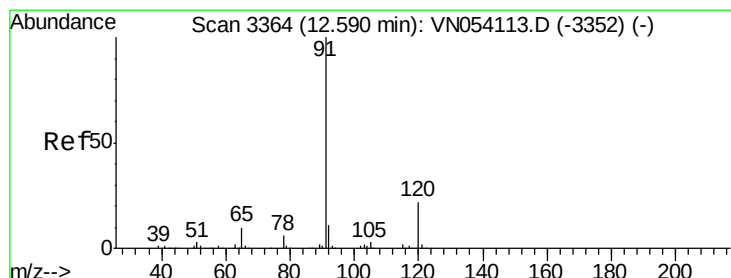
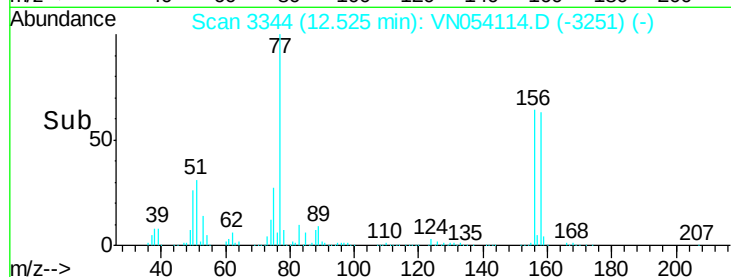
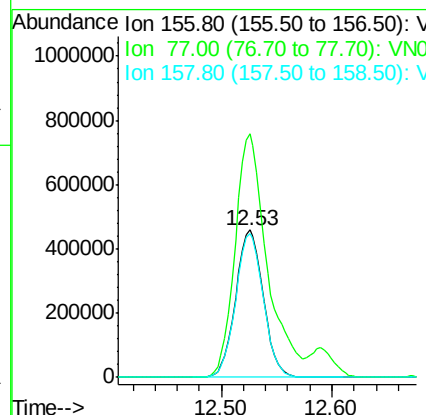
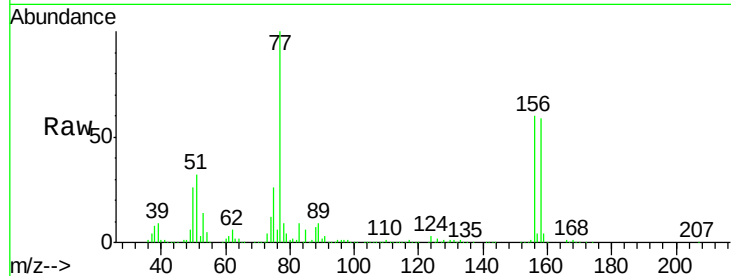
ClientSampled :

VSTDIC100

Tot Ion	Ratio	Lower	Upper
156	100		
77	191.5	93.6	280.8
158	97.6	48.4	145.0

Manual Integrations
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#78

n-propylbenzene

Concen: 94.385 ug/l

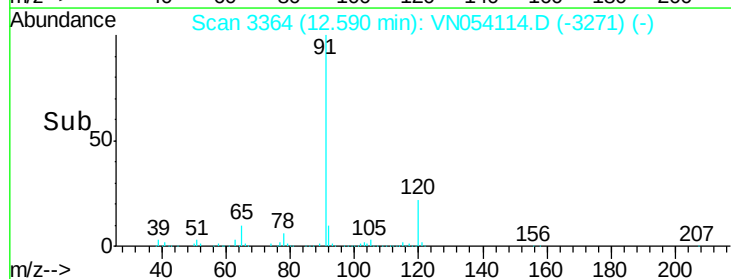
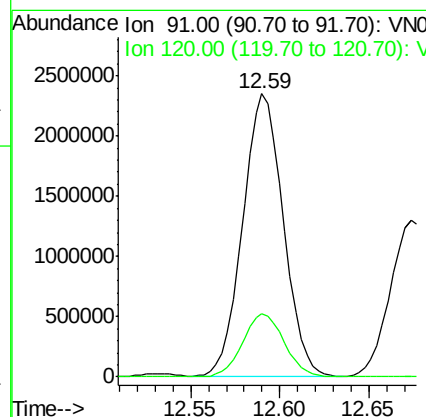
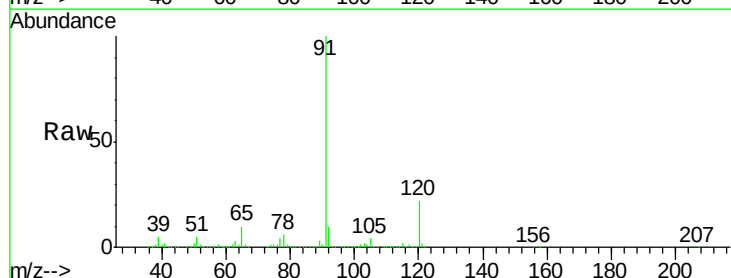
RT: 12.59 min Scan# 3364

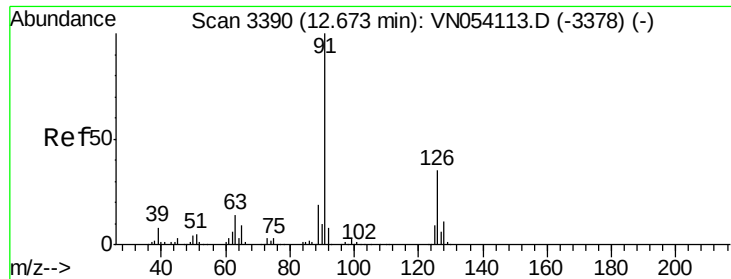
Delta R.T. 0.00 min

Lab File: VN054114.D

Acq: 6 Mar 2019 11:56

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.8	11.3	33.9





#79

2-Chlorotoluene

Concen: 91.056 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN054114.D

Acq: 6 Mar 2019 11:56

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 91 Resp: 2174508

Ion Ratio Lower Upper

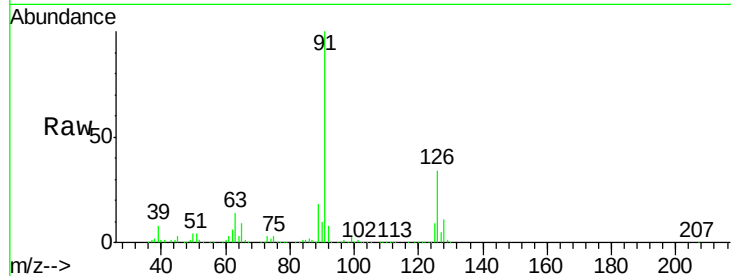
91 100

126 34.6 17.4 52.2

Manual Integrations
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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) (-)

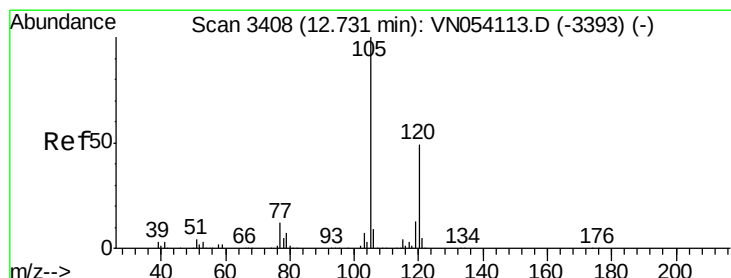
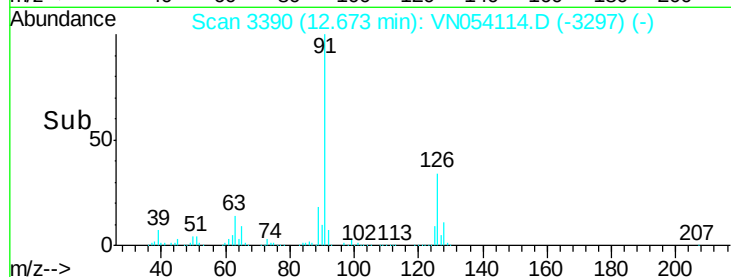
1500000

1000000

500000

0

Time--> 12.60 12.65 12.70



#80

1,3,5-Trimethylbenzene

Concen: 94.291 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN054114.D

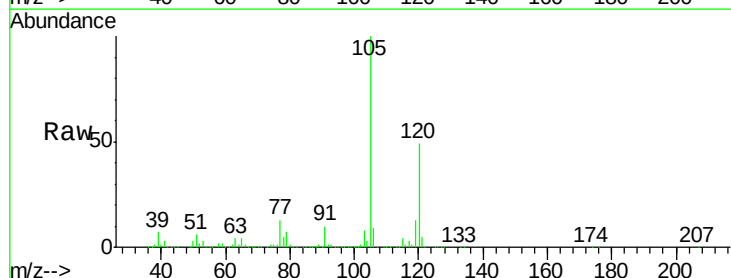
Acq: 6 Mar 2019 11:56

Tgt Ion: 105 Resp: 2678373

Ion Ratio Lower Upper

105 100

120 49.1 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) (-)

2000000

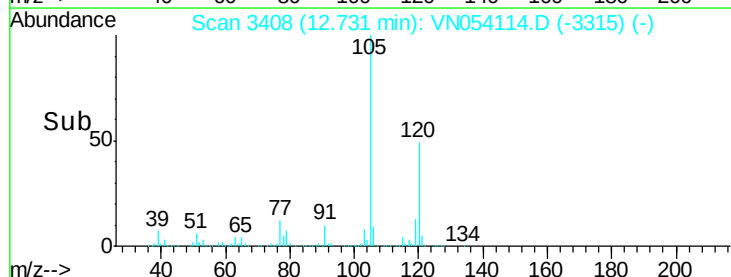
1500000

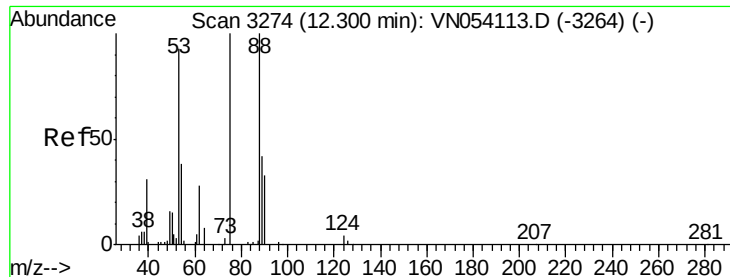
1000000

500000

0

Time--> 12.65 12.70 12.75 12.80





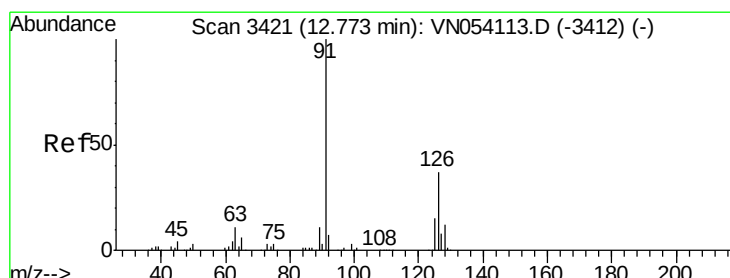
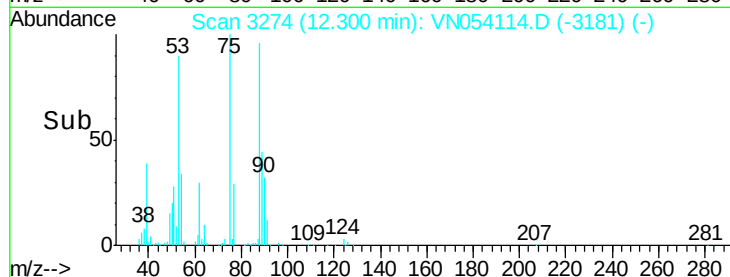
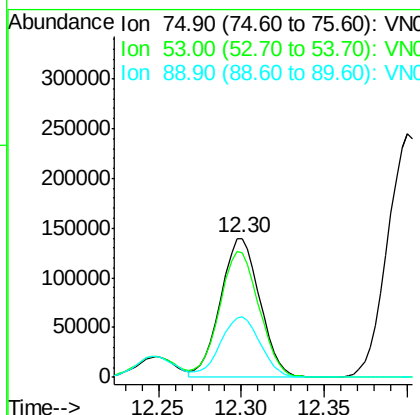
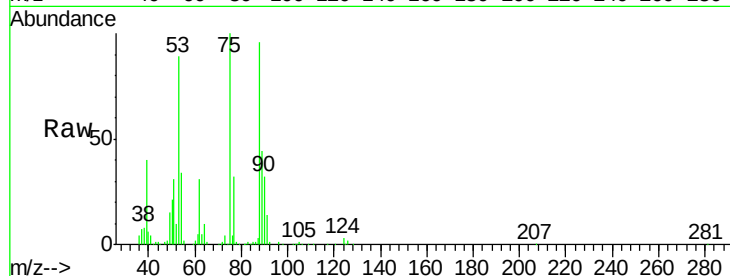
#81
trans-1,4-Dichloro-2-butene
Concen: 105.138 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN054114.D
Acq: 6 Mar 2019 11:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
75	100		
53	92.1	76.4	114.6
89	44.2	35.3	52.9

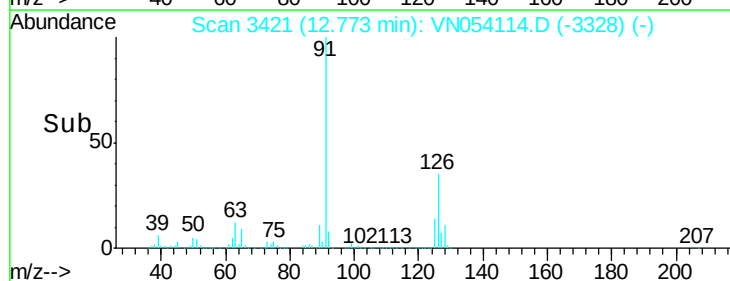
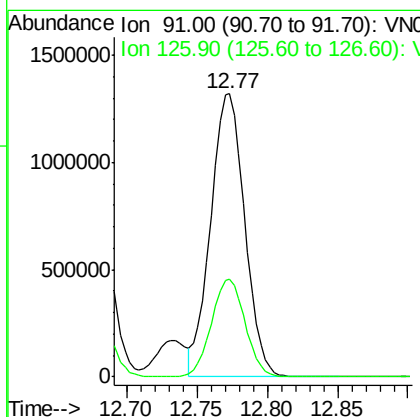
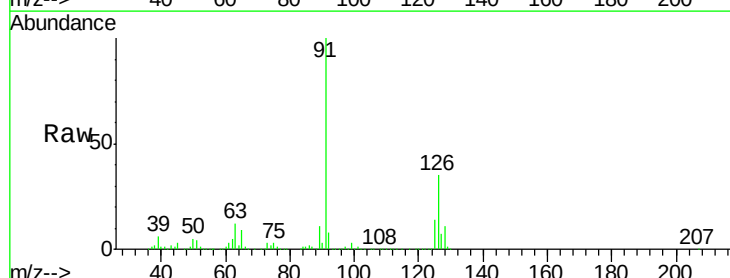
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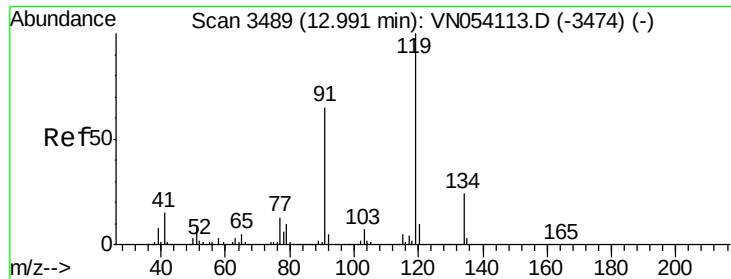
MMDadoda
3/7/2019 11:38:11 AM



#82
4-Chlorotoluene
Concen: 92.623 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN054114.D
Acq: 6 Mar 2019 11:56

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.3	17.1	51.3





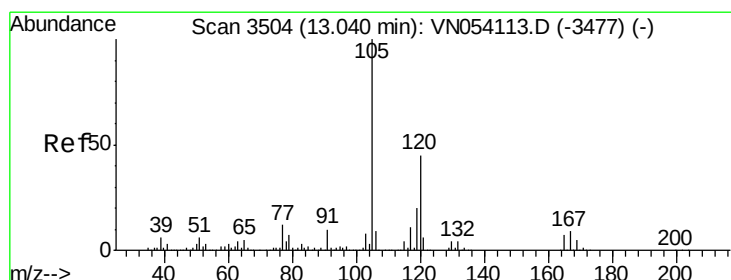
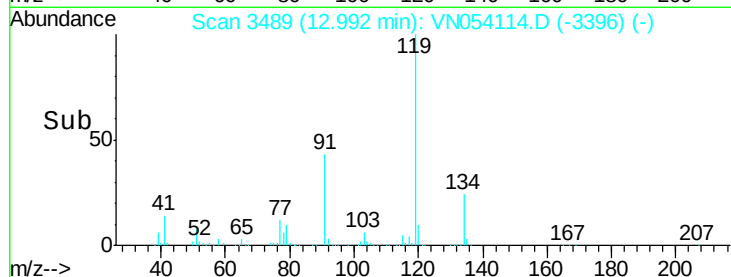
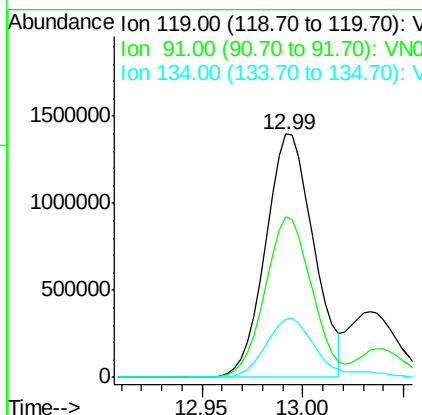
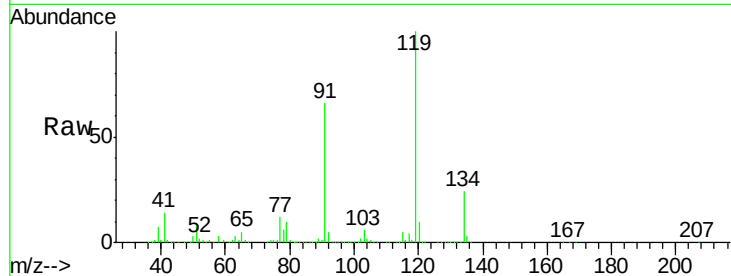
#83
 tert-Butylbenzene
 Concen: 91.614 ug/l
 RT: 12.99 min Scan# 3489
 Delta R.T. 0.00 min
 Lab File: VN054114.D
 Acq: 6 Mar 2019 11:56

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC100

Tot Ion:119 Resp: 2304597
 Ion Ratio Lower Upper
 119 100
 91 64.4 31.8 95.3
 134 26.0 12.8 38.3

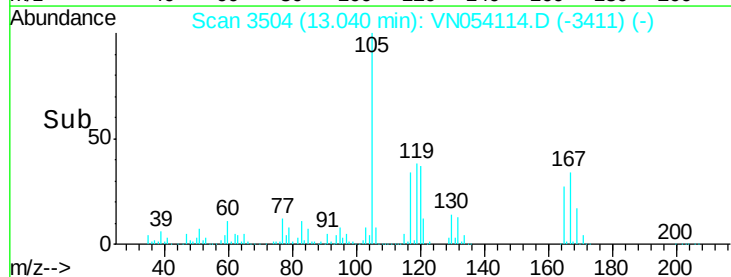
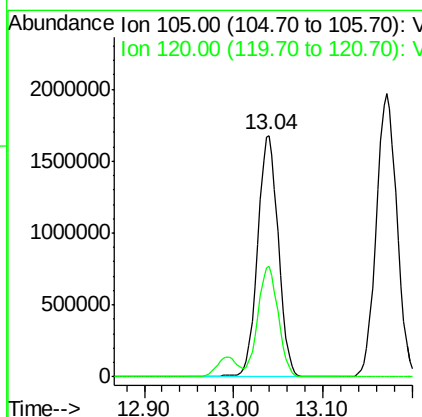
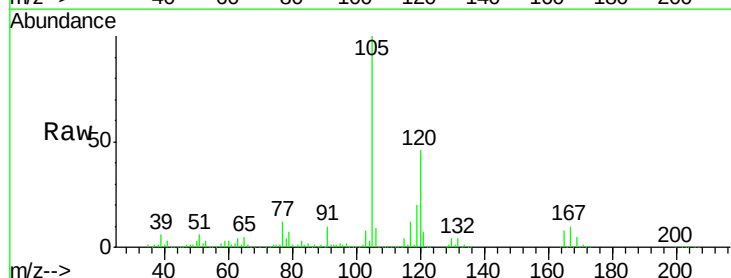
Manual Integrations
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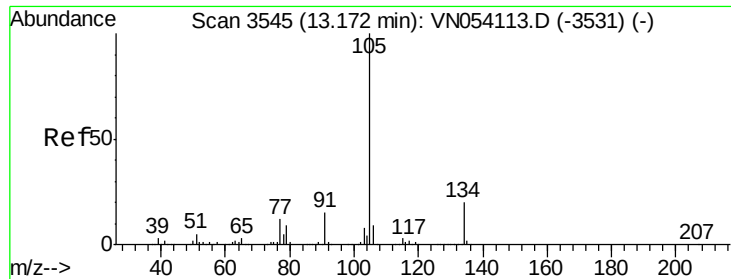
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#84
 1,2,4-Trimethylbenzene
 Concen: 96.407 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN054114.D
 Acq: 6 Mar 2019 11:56

Tgt Ion:105 Resp: 2718000
 Ion Ratio Lower Upper
 105 100
 120 45.3 22.6 67.7





#85

sec-Butylbenzene

Concen: 91.820 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN054114.D

Acq: 6 Mar 2019 11:56

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion:105 Resp: 3134485

Ion Ratio Lower Upper

105 100

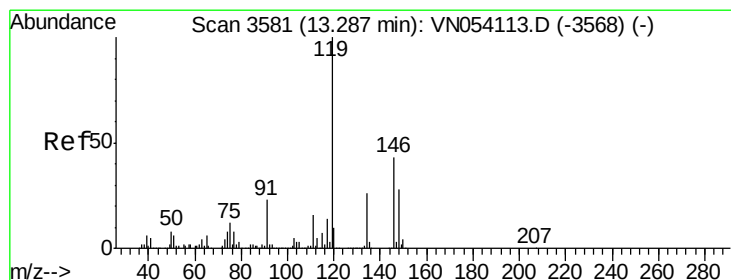
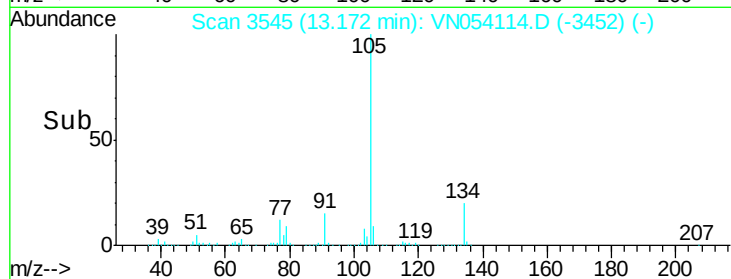
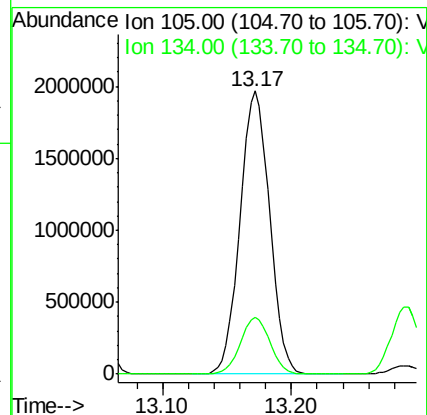
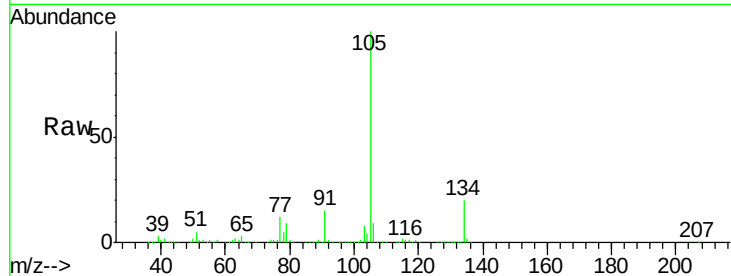
134 20.1 9.8 29.5

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 95.046 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN054114.D

Acq: 6 Mar 2019 11:56

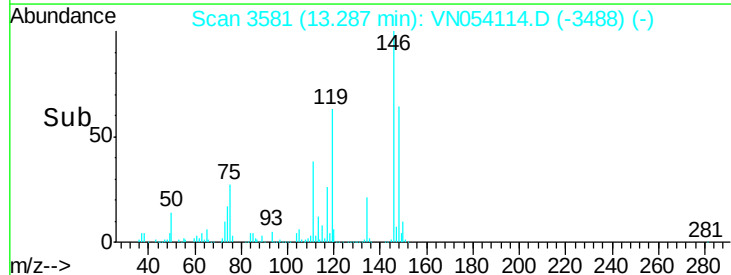
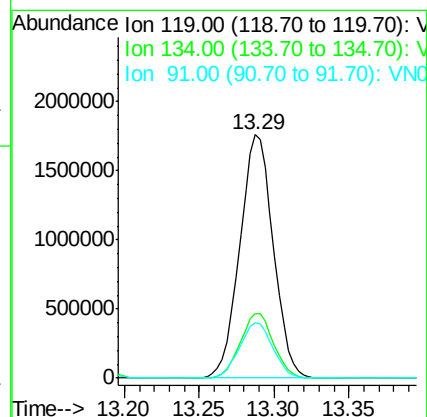
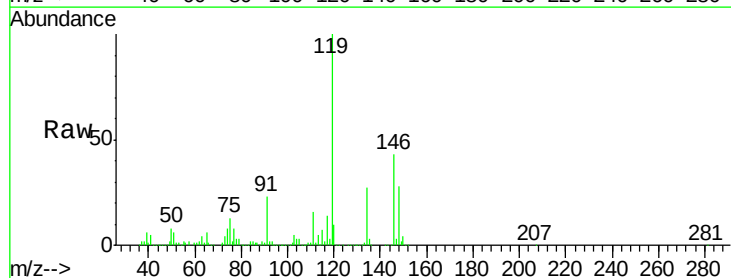
Tgt Ion:119 Resp: 2727666

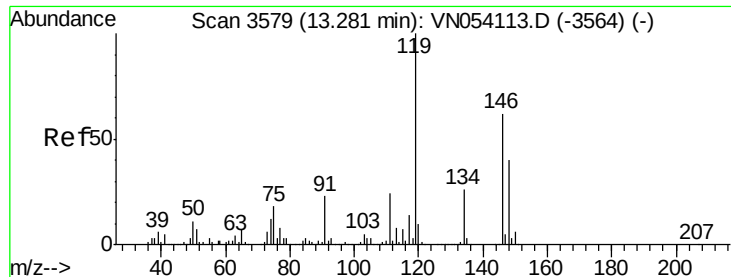
Ion Ratio Lower Upper

119 100

134 26.6 13.2 39.5

91 22.7 11.4 34.2





#87

1,3-Dichlorobenzene

Concen: 93.375 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. 0.00 min

Lab File: VN054114.D

Acq: 6 Mar 2019 11:56

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion:146 Resp: 1427888

Ion Ratio Lower Upper

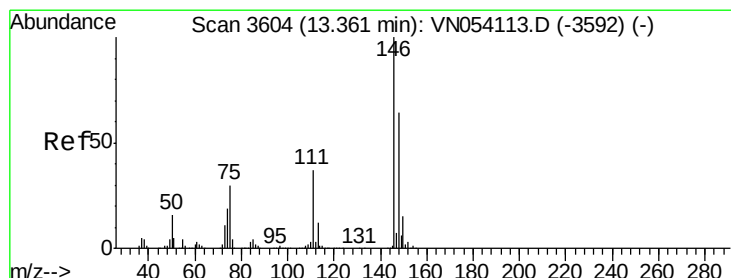
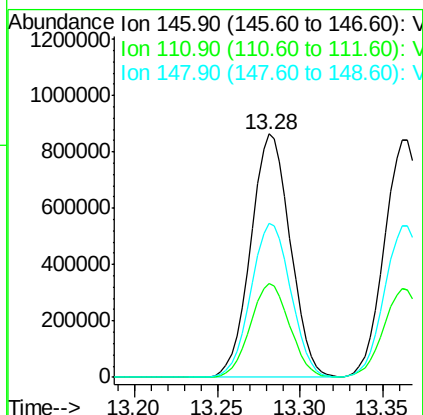
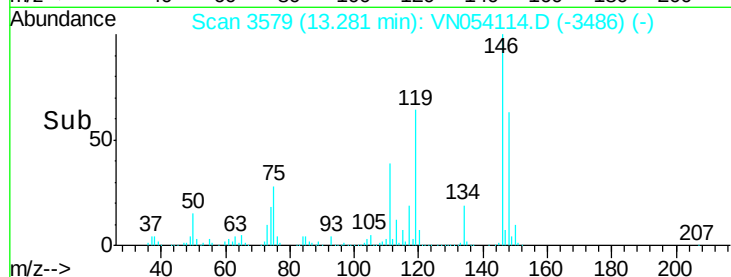
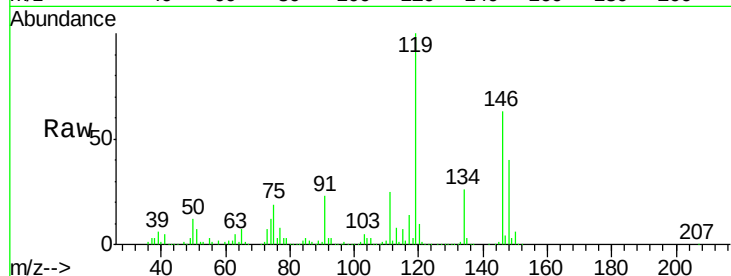
146 100

111 38.6 19.3 57.8

148 64.1 32.4 97.0

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 92.437 ug/l

RT: 13.36 min Scan# 3604

Delta R.T. 0.00 min

Lab File: VN054114.D

Acq: 6 Mar 2019 11:56

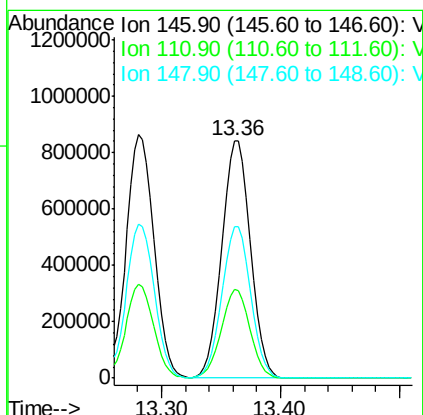
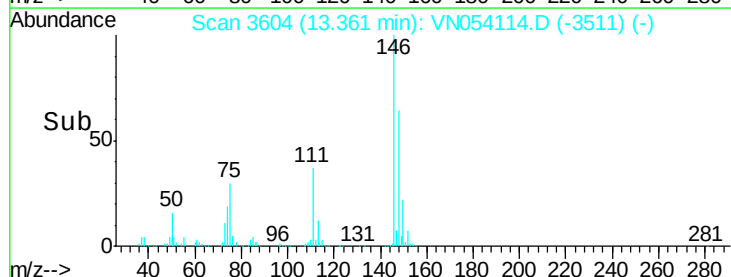
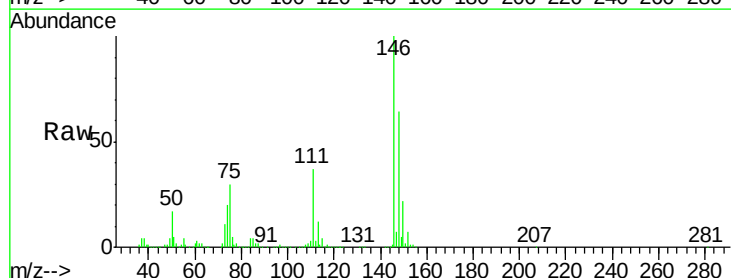
Tgt Ion:146 Resp: 1402867

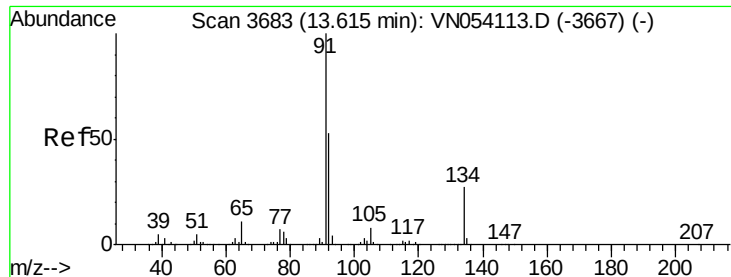
Ion Ratio Lower Upper

146 100

111 37.3 18.9 56.5

148 64.3 32.1 96.5





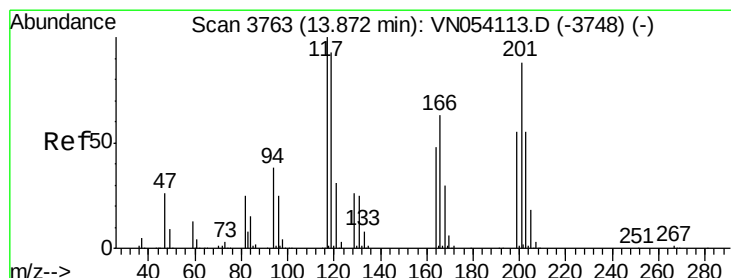
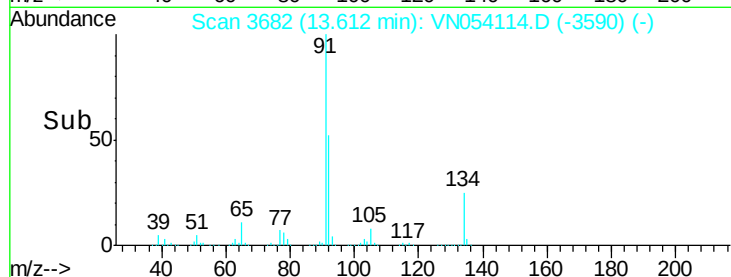
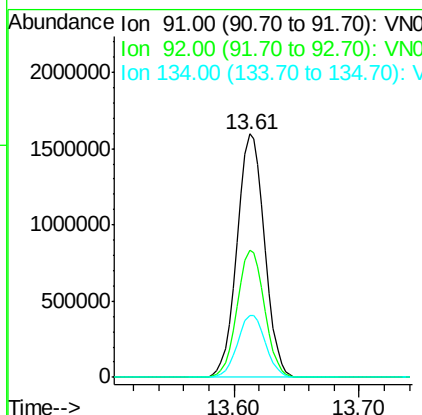
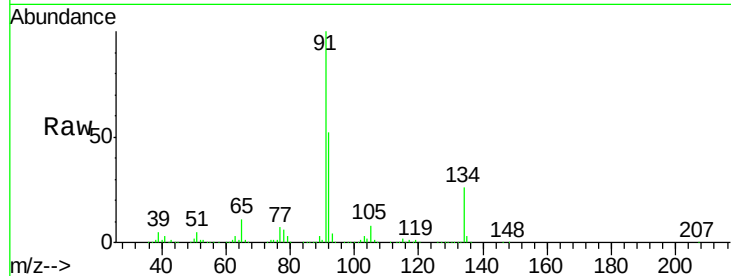
#89
n-Butylbenzene
Concen: 100.110 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN054114.D
Acq: 6 Mar 2019 11:56

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion: 91 Resp: 2425750
Ion Ratio Lower Upper
91 100
92 52.1 26.0 78.0
134 26.0 13.1 39.1

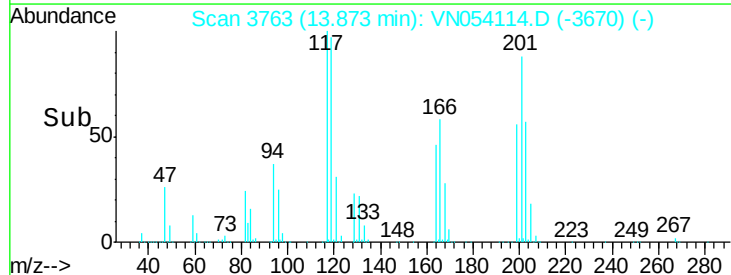
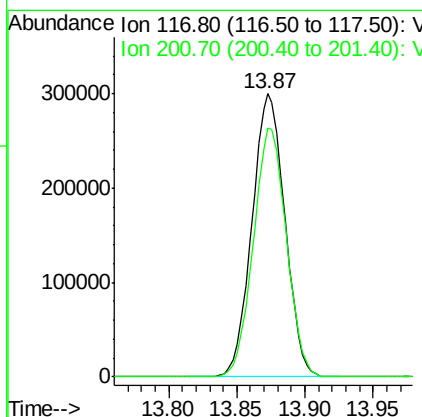
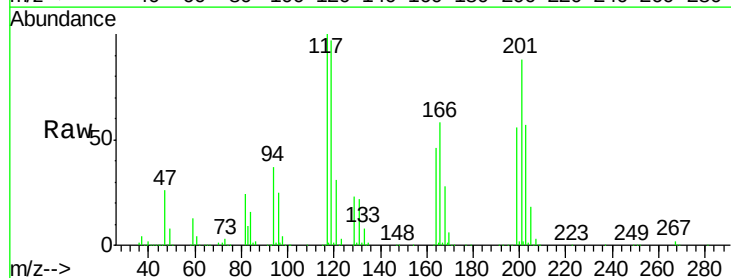
Manual Integrations
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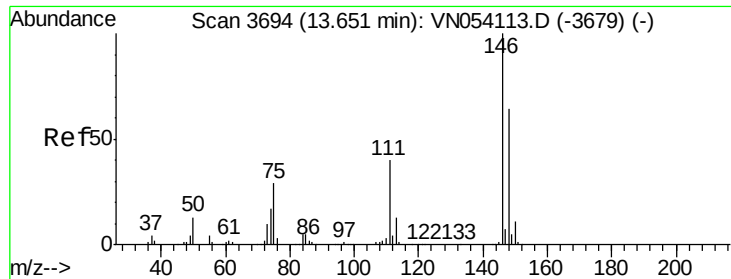
MMDadoda
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#90
Hexachloroethane
Concen: 91.058 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN054114.D
Acq: 6 Mar 2019 11:56

Tgt Ion: 117 Resp: 501224
Ion Ratio Lower Upper
117 100
201 88.4 44.9 134.7





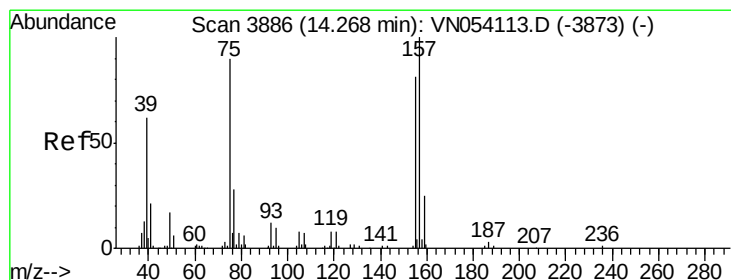
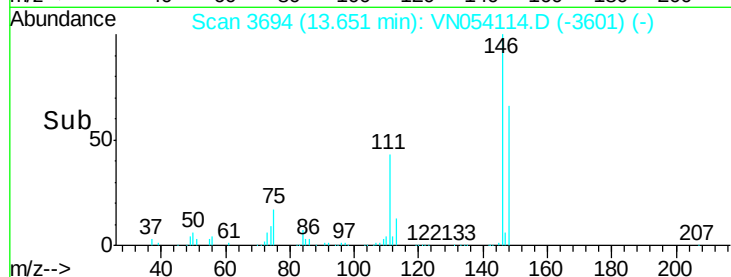
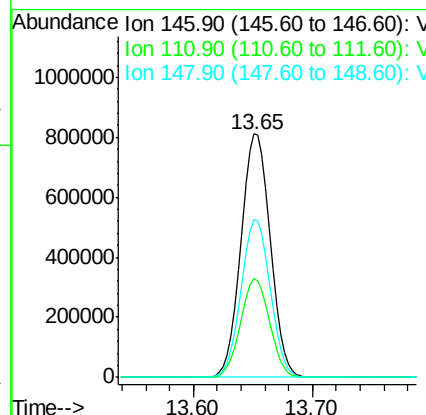
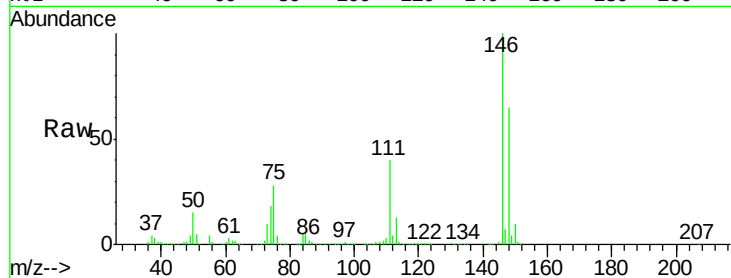
#91
 1,2-Dichlorobenzene
 Concen: 90.964 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN054114.D
 Acq: 6 Mar 2019 11:56

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.9	20.0	60.0
148	64.5	32.3	96.9

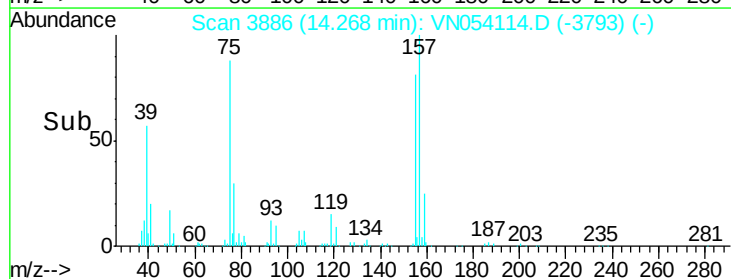
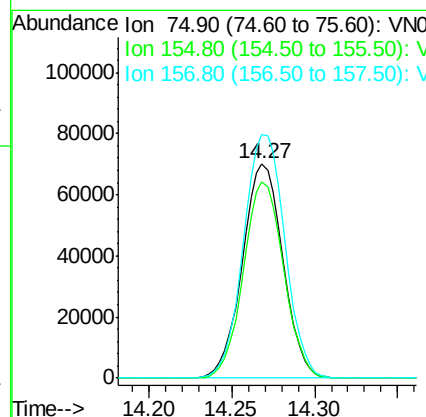
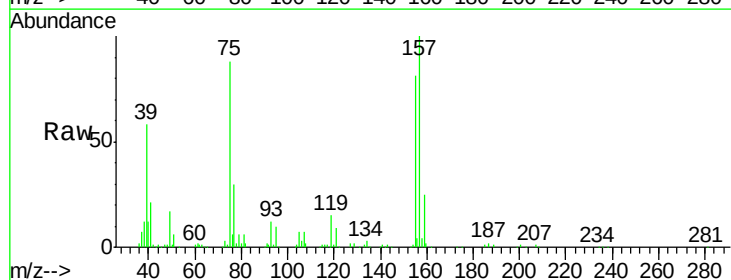
Manual Integrations
 APPROVED

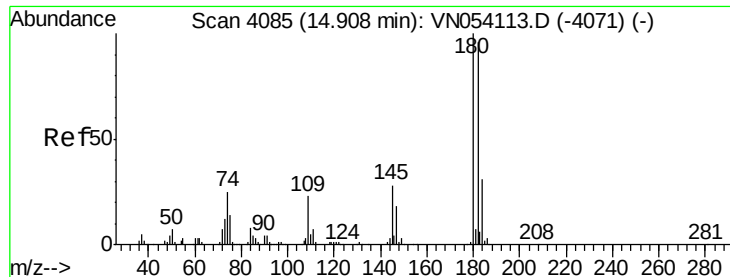
MMDadoda
 3/7/2019 11:38:11 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 93.524 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN054114.D
 Acq: 6 Mar 2019 11:56

Tgt Ion	Ratio	Lower	Upper
75	100		
155	90.7	44.5	133.5
157	116.1	57.2	171.6





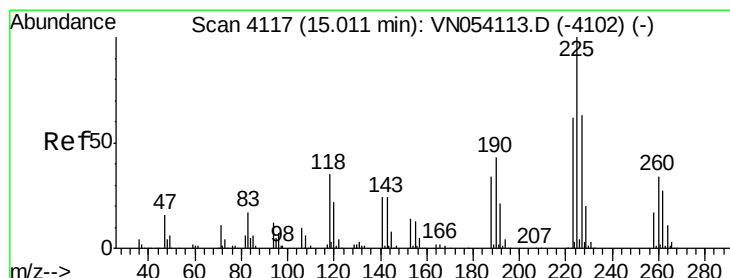
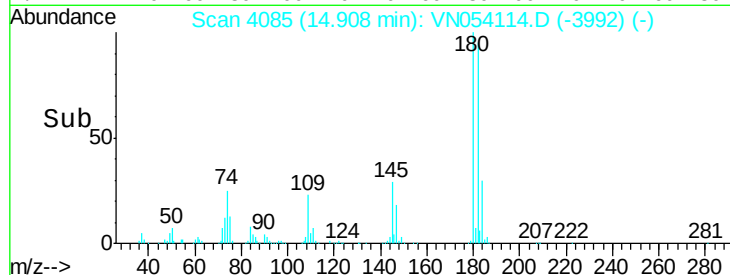
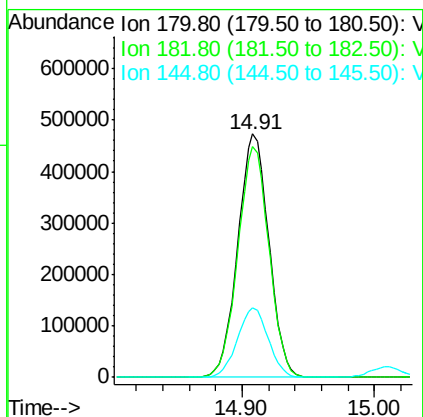
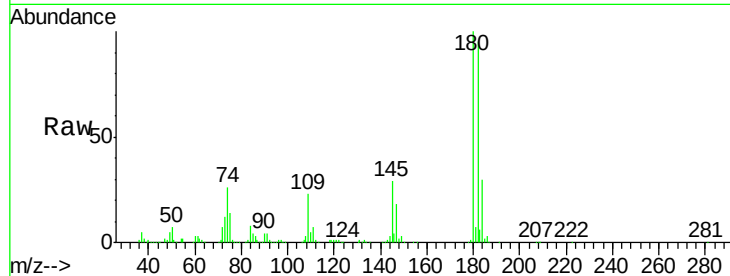
#93
1,2,4-Trichlorobenzene
Concen: 105.499 ug/l
RT: 14.91 min Scan# 4085
Delta R.T. 0.00 min
Lab File: VN054114.D
Acq: 6 Mar 2019 11:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
180	100	766640		
182	95.2	48.1	144.3	
145	28.5	13.9	41.7	

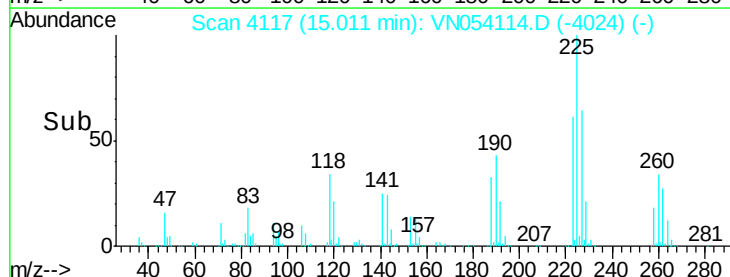
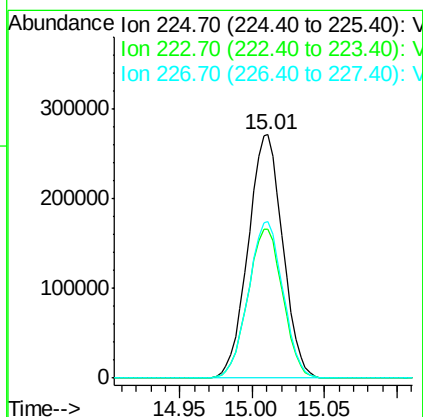
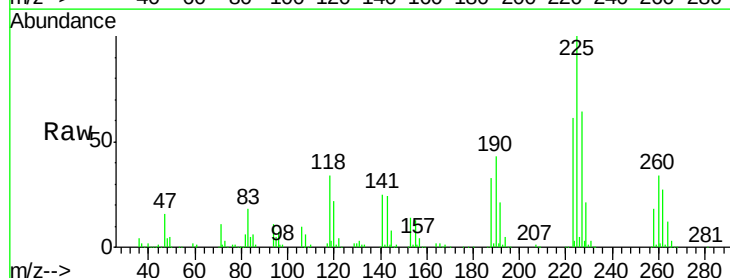
Manual Integrations
APPROVED

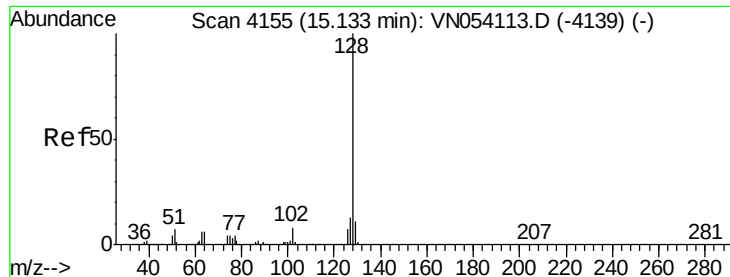
MMDadoda
3/7/2019 11:38:11 AM



#94
Hexachlorobutadiene
Concen: 82.932 ug/l
RT: 15.01 min Scan# 4117
Delta R.T. 0.00 min
Lab File: VN054114.D
Acq: 6 Mar 2019 11:56

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	451876		
223	61.8	31.2	93.6	
227	64.1	31.9	95.7	





#95

Naphthalene

Concen: 109.500 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN054114.D

Acq: 6 Mar 2019 11:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:128 Resp: 1641215

Ion Ratio Lower Upper

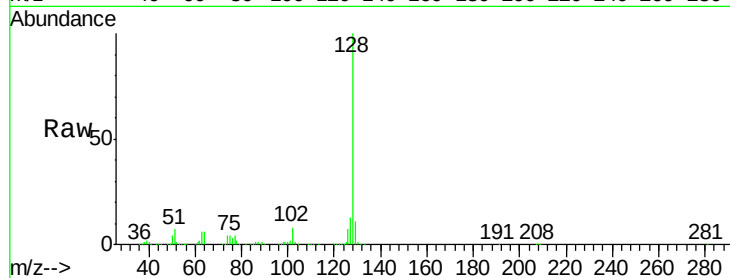
128 100

127 12.9 10.4 15.6

129 10.9 8.6 12.8

Manual Integrations
APPROVED

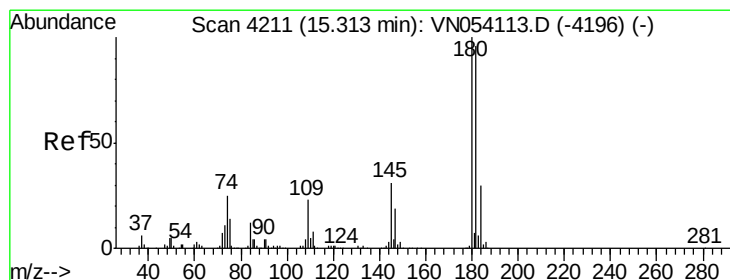
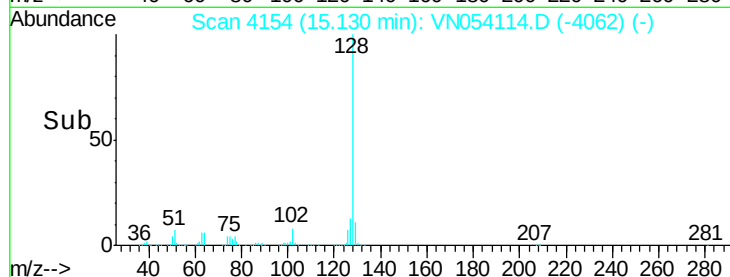
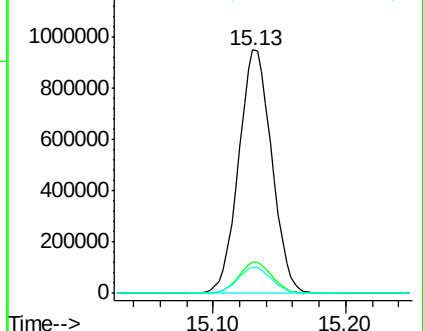
MMDadoda
3/7/2019 11:38:11 AM



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 98.457 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN054114.D

Acq: 6 Mar 2019 11:56

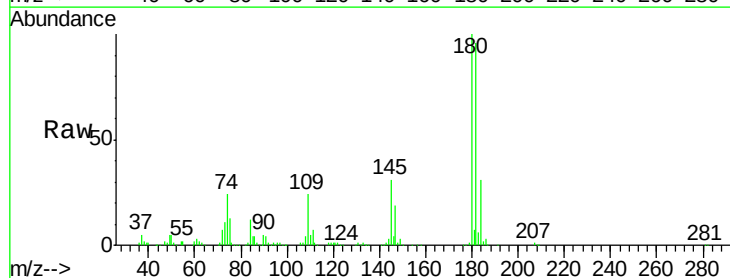
Tgt Ion:180 Resp: 720128

Ion Ratio Lower Upper

180 100

182 95.5 47.9 143.7

145 30.4 14.9 44.5



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

