

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091919\
 Data File : VN058231.D
 Acq On : 20 Sep 2019 1:31
 Operator : JC/SP
 Sample : K4896-04MSD
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE123D1-20190912MSD

Manual Integrations
 APPROVED

MMDadoda
 9/20/2019 3:37:02 PM

Quant Time: Sep 20 09:11:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	484686	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	839954	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	768165	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	371072	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	371703	55.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.12%	
35) Dibromofluoromethane	7.57	113	272803	53.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.86%	
50) Toluene-d8	10.08	98	1069266	53.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.50%	
62) 4-Bromofluorobenzene	12.40	95	391492	52.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.94%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	188158	47.257	ug/l	100
3) Chloromethane	2.04	50	154759	50.435	ug/l	99
4) Vinyl Chloride	2.17	62	168214	50.125	ug/l	100
5) Bromomethane	2.54	94	75294	42.492	ug/l	98
6) Chloroethane	2.68	64	112479	52.405	ug/l	99
7) Trichlorofluoromethane	3.00	101	257618	47.403	ug/l	100
8) Diethyl Ether	3.39	74	118252	47.488	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.74	101	181873	46.416	ug/l	100
10) Methyl Iodide	3.93	142	133497	40.659	ug/l	98
11) Tert butyl alcohol	4.76	59	217143	270.409	ug/l	99
12) 1,1-Dichloroethene	3.72	96	148373	49.896	ug/l	99
13) Acrolein	3.59	56	41983	352.787	ug/l	95
14) Allyl chloride	4.30	41	265671	41.435	ug/l	88
15) Acrylonitrile	4.96	53	570187	266.510	ug/l	99
16) Acetone	3.79	43	501888	219.025	ug/l	97
17) Carbon Disulfide	4.03	76	195982	46.840	ug/l	98
18) Methyl Acetate	4.30	43	262224	43.489	ug/l	99
19) Methyl tert-butyl Ether	5.02	73	758791	51.343	ug/l	98
20) Methylene Chloride	4.53	84	210791	52.553	ug/l	96
21) trans-1,2-Dichloroethene	5.02	96	162880	50.270	ug/l	96
22) Diisopropyl ether	5.93	45	830067	50.965	ug/l	99
23) Vinyl Acetate	5.87	43	2603216	233.587	ug/l	99
24) 1,1-Dichloroethane	5.83	63	429512	49.411	ug/l	99
25) 2-Butanone	6.81	43	779569	249.714	ug/l	99
26) 2,2-Dichloropropane	6.81	77	250596	33.981	ug/l	96
27) cis-1,2-Dichloroethene	6.81	96	241616	49.158	ug/l	98
28) Bromochloromethane	7.18	49	218560	53.149	ug/l	99
29) Tetrahydrofuran	7.19	42	490465	255.055	ug/l	99
30) Chloroform	7.36	83	459113	49.067	ug/l	98
31) Cyclohexane	7.64	56	277640	49.381	ug/l	99
32) 1,1,1-Trichloroethane	7.55	97	362936	50.951	ug/l	99
36) 1,1-Dichloropropene	7.78	75	267755	44.204	ug/l	99
37) Ethyl Acetate	6.91	43	280916	44.688	ug/l	98
38) Carbon Tetrachloride	7.76	117	287967	47.293	ug/l	99

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	266760	45.555	ug/l	98
40) Benzene	8.03	78	870715	47.063	ug/l	99
41) Methacrylonitrile	7.16	41	158560m	50.068	ug/l	
42) 1,2-Dichloroethane	8.11	62	373502	48.112	ug/l	99
43) Isopropyl Acetate	8.15	43	515941	43.947	ug/l	99
44) Trichloroethene	8.82	130	268717	59.353	ug/l	99
45) 1,2-Dichloropropane	9.11	63	273254	49.456	ug/l	96
46) Dibromomethane	9.20	93	160461	47.768	ug/l	99
47) Bromodichloromethane	9.39	83	357343	50.778	ug/l	99
48) Methyl methacrylate	9.19	41	273287	51.269	ug/l	98
49) 1,4-Dioxane	9.19	88	90261	1031.357	ug/l	97
51) 4-Methyl-2-Pentanone	9.98	43	1734589	278.166	ug/l	99
52) Toluene	10.15	92	555449	47.905	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	350230	48.584	ug/l	99
54) cis-1,3-Dichloropropene	9.83	75	378980	47.617	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	255669	49.688	ug/l	98
56) Ethyl methacrylate	10.43	69	386168	52.016	ug/l	100
57) 1,3-Dichloropropane	10.71	76	434904	49.165	ug/l	99
59) 2-Hexanone	10.75	43	1244602	268.738	ug/l	99
60) Dibromochloromethane	10.90	129	254615	51.435	ug/l	99
61) 1,2-Dibromoethane	11.00	107	237279	49.759	ug/l	100
64) Tetrachloroethene	10.63	164	165488	44.194	ug/l	99
65) Chlorobenzene	11.43	112	645891	47.803	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	248975	50.819	ug/l	99
67) Ethyl Benzene	11.51	91	1164567	50.302	ug/l	100
68) m/p-Xylenes	11.62	106	839280	96.251	ug/l	96
69) o-Xylene	11.95	106	425807	49.663	ug/l	99
70) Stvrene	11.97	104	755243	51.124	ug/l	99
71) Bromoform	12.13	173	163433	45.354	ug/l #	99
73) Isopropylbenzene	12.25	105	1208028	52.010	ug/l	100
74) N-amyl acetate	12.07	43	471333	48.508	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	395863	50.895	ug/l	99
76) 1,2,3-Trichloropropane	12.56	75	336787m	50.713	ug/l	
77) Bromobenzene	12.53	156	283878	48.588	ug/l	99
78) n-propylbenzene	12.60	91	1395774	52.883	ug/l	99
79) 2-Chlorotoluene	12.68	91	843908	51.161	ug/l	100
80) 1,3,5-Trimethylbenzene	12.74	105	1029533	52.418	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	92437	42.418	ug/l	97
82) 4-Chlorotoluene	12.78	91	887458	51.182	ug/l	100
83) tert-Butylbenzene	13.00	119	908723	51.881	ug/l	98
84) 1,2,4-Trimethylbenzene	13.05	105	1034315	52.917	ug/l	99
85) sec-Butylbenzene	13.18	105	1226958	53.569	ug/l	99
86) p-Isopropyltoluene	13.29	119	1087498	53.407	ug/l	100
87) 1,3-Dichlorobenzene	13.29	146	540831	50.681	ug/l	99
88) 1,4-Dichlorobenzene	13.37	146	543548	49.892	ug/l	99
89) n-Butylbenzene	13.62	91	984184	50.981	ug/l	99
90) Hexachloroethane	13.88	117	174470	48.926	ug/l	98
91) 1,2-Dichlorobenzene	13.66	146	541209	50.559	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.28	75	75027	53.579	ug/l	99
93) 1,2,4-Trichlorobenzene	14.92	180	342877	50.133	ug/l	99

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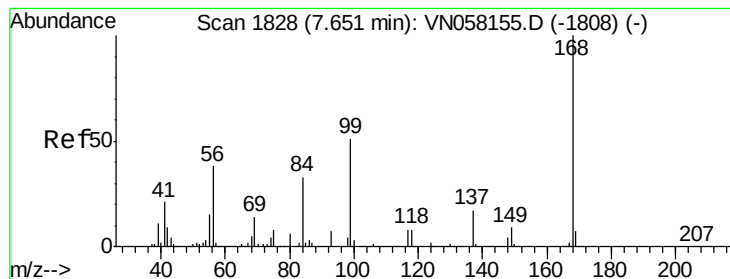
Manual Integrations
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	15.02	225	155776	47.124	ug/l	97
95) Naphthalene	15.13	128	960534	54.192	ug/l	100
96) 1,2,3-Trichlorobenzene	15.30	180	324097	50.136	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058231.D

Acq: 20 Sep 2019 1:31

Instrument :

MSVOA_N

ClientSampleId :

RE123D1-20190912MSD

Tot Ion:168 Resp: 484686

Ion Ratio Lower Upper

168 100

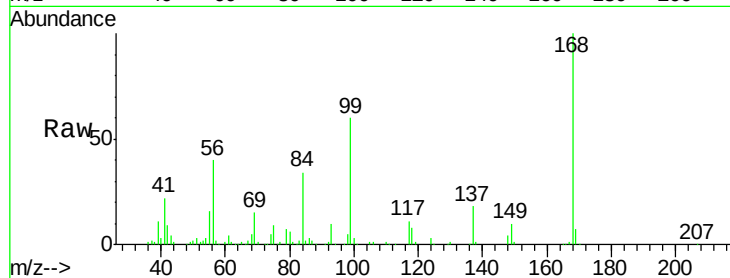
99 59.6 47.4 71.2

Manual Integrations

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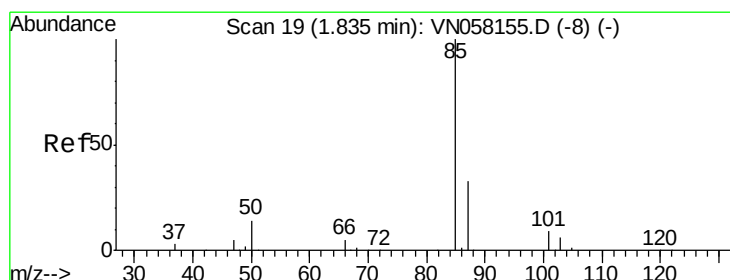
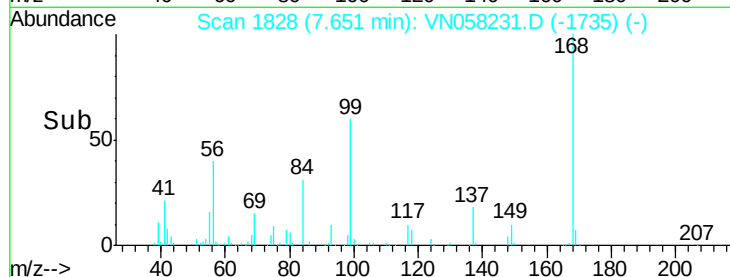
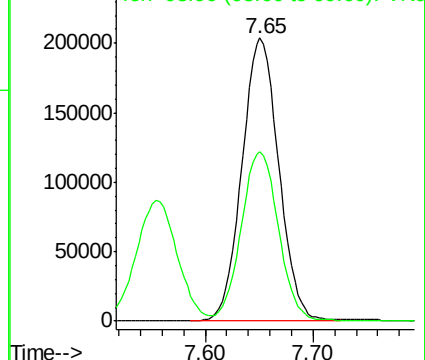
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9/20/2019 3:37:02 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 47.257 ug/l

RT: 1.83 min Scan# 19

Delta R.T. -0.00 min

Lab File: VN058231.D

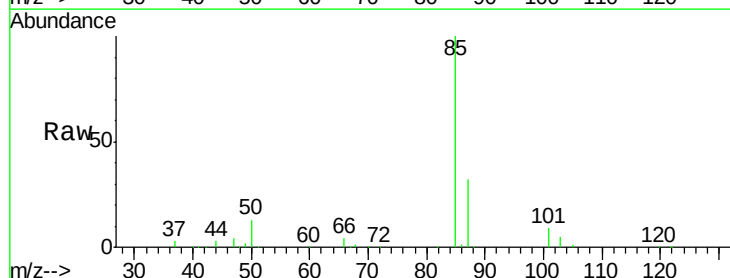
Acq: 20 Sep 2019 1:31

Tgt Ion: 85 Resp: 188158

Ion Ratio Lower Upper

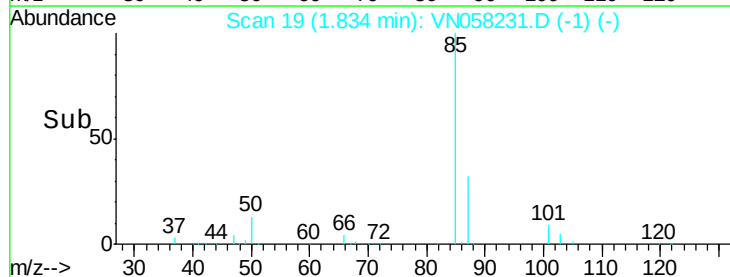
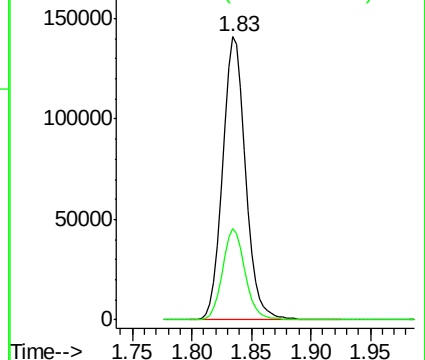
85 100

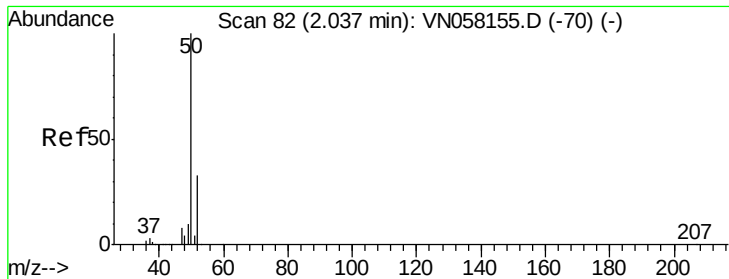
87 32.3 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 50.435 ug/l

RT: 2.04 min Scan# 82

Delta R.T. -0.00 min

Lab File: VN058231.D

Acq: 20 Sep 2019 1:31

Instrument :

MSVOA_N

ClientSampleId :

RE123D1-20190912MSD

Tot Ion: 50 Resp: 154759

Ion Ratio Lower Upper

50 100

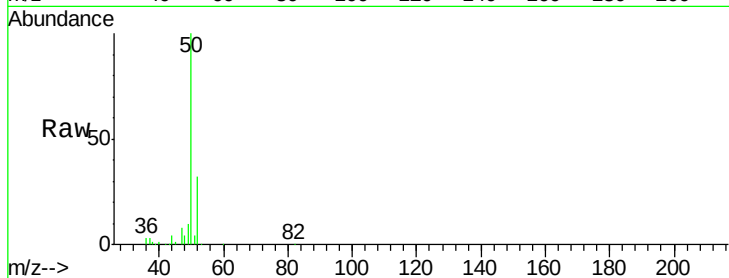
52 32.1 26.3 39.5

Manual Integrations

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Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.04

120000

100000

80000

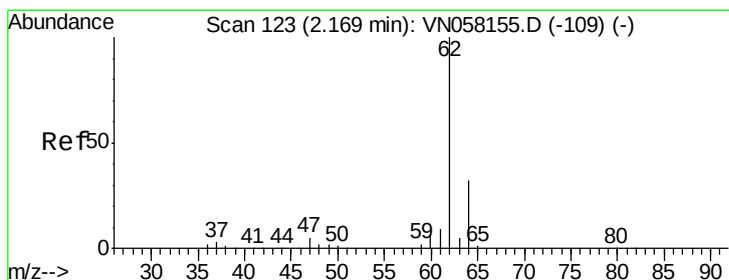
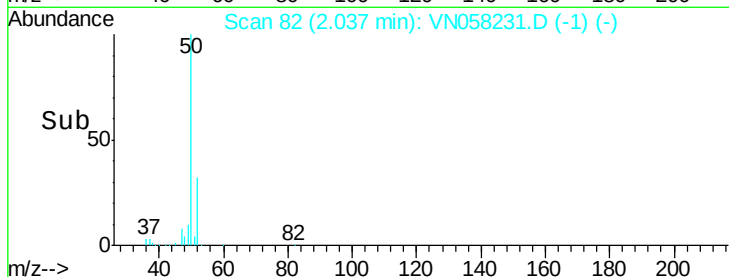
60000

40000

20000

0

Time-->



#4

Vinyl Chloride

Concen: 50.125 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058231.D

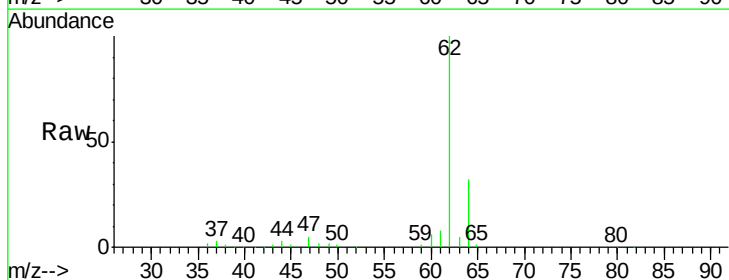
Acq: 20 Sep 2019 1:31

Tgt Ion: 62 Resp: 168214

Ion Ratio Lower Upper

62 100

64 31.8 25.4 38.2



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

2.17

120000

100000

80000

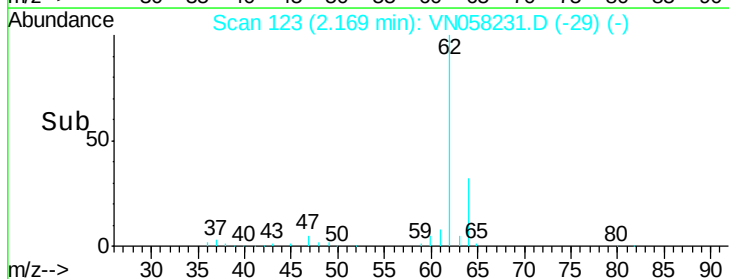
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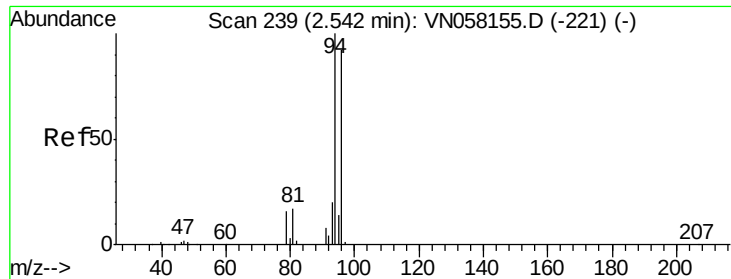
40000

20000

0

Time-->





#5

Bromomethane

Concen: 42.492 ug/l

RT: 2.54 min Scan# 239

Delta R.T. 0.00 min

Lab File: VN058231.D

Acq: 20 Sep 2019 1:31

Instrument :

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ClientSampleId :

RE123D1-20190912MSD

Tot Ion: 94 Resp: 75294

Ion Ratio Lower Upper

94 100

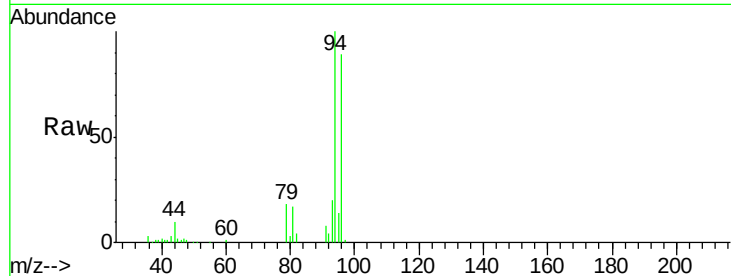
96 89.4 73.3 109.9

Manual Integrations

APPROVED

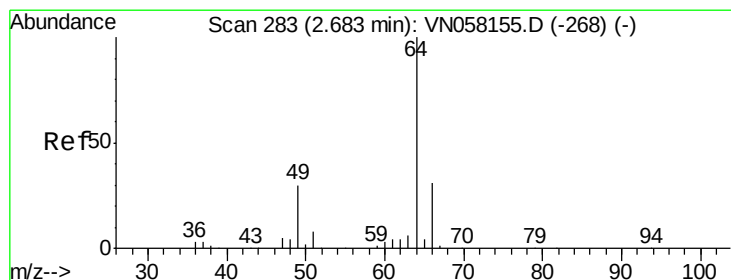
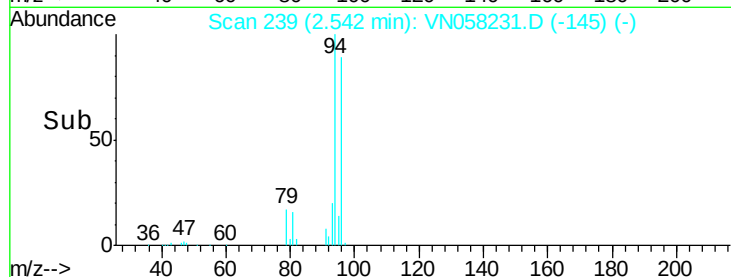
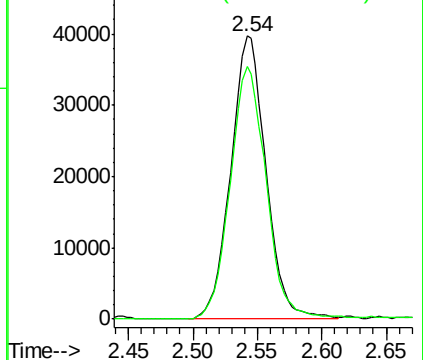
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 52.405 ug/l

RT: 2.68 min Scan# 283

Delta R.T. 0.00 min

Lab File: VN058231.D

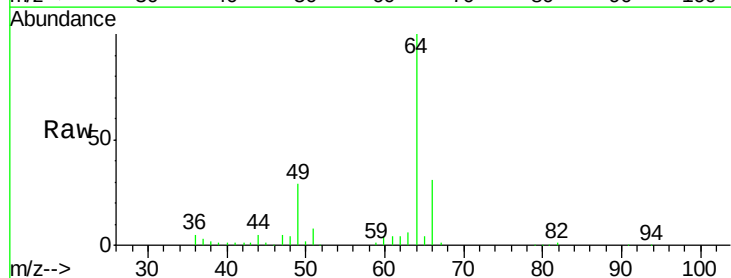
Acq: 20 Sep 2019 1:31

Tgt Ion: 64 Resp: 112479

Ion Ratio Lower Upper

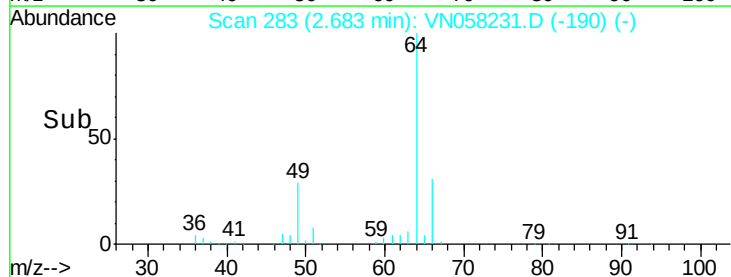
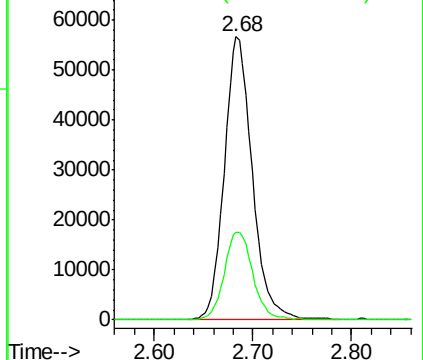
64 100

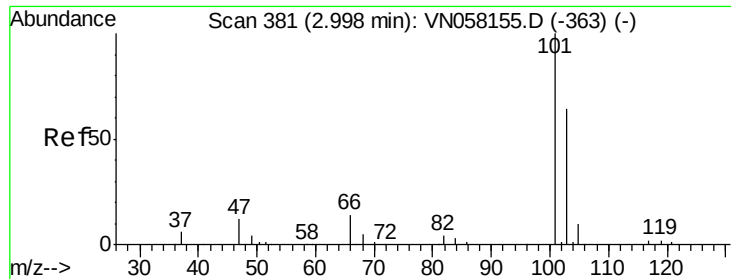
66 31.1 24.6 37.0



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

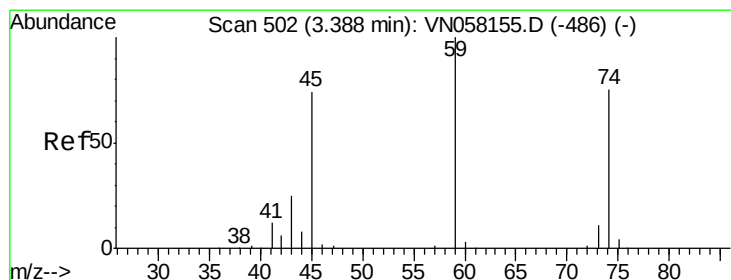
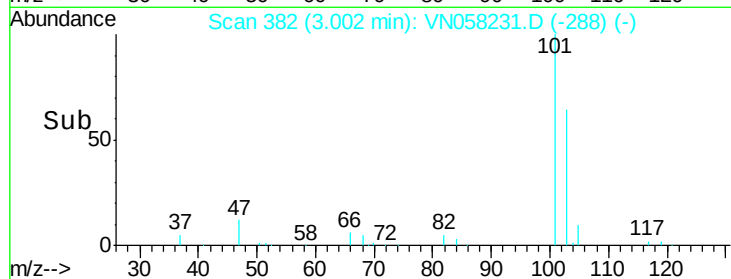
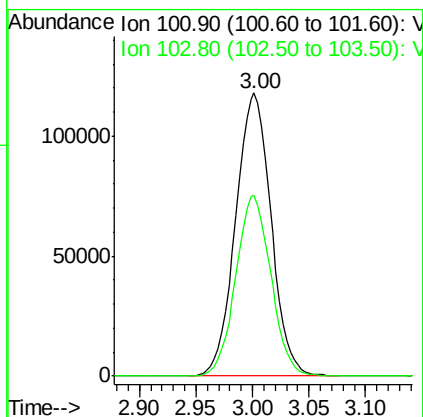
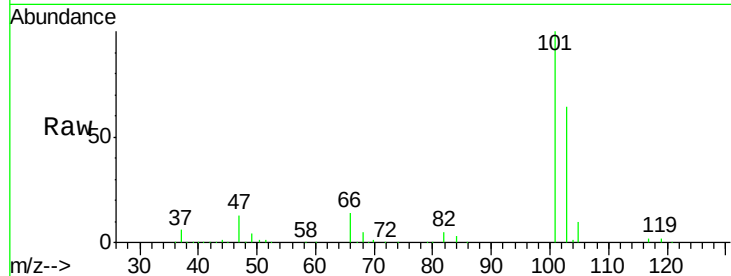
Trichlorofluoromethane
 Concen: 47.403 ug/l
 RT: 3.00 min Scan# 382
 Delta R.T. 0.00 min
 Lab File: VN058231.D
 Acq: 20 Sep 2019 1:31

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 RE123D1-20190912MSD

Tot Ion:101 Resp: 257618
 Ion Ratio Lower Upper
 101 100
 103 63.8 51.0 76.6

Manual Integrations
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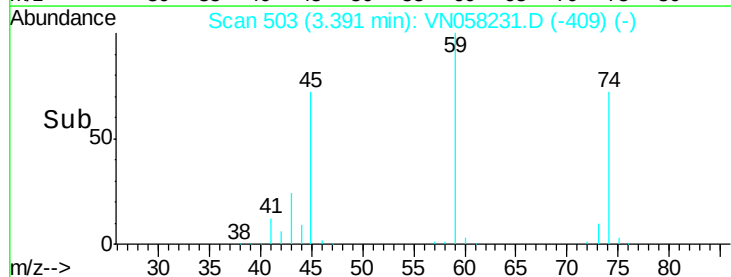
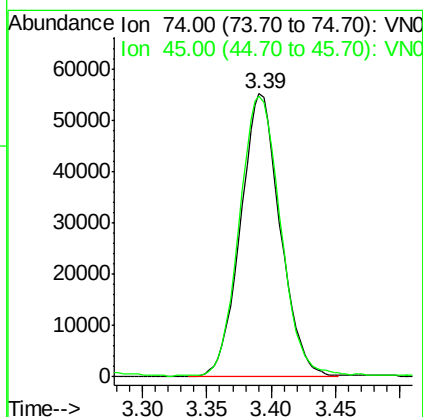
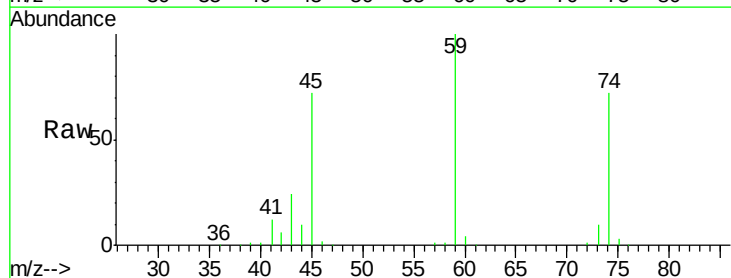
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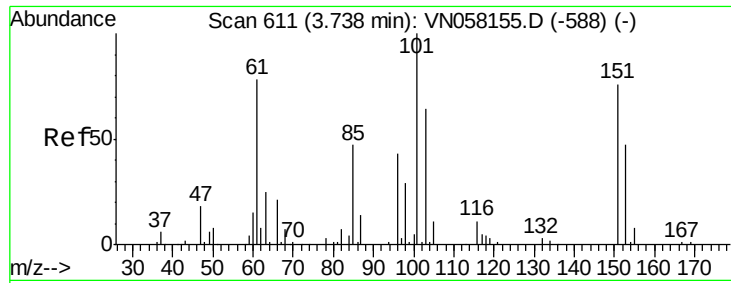


#8

Diethyl Ether
 Concen: 47.488 ug/l
 RT: 3.39 min Scan# 503
 Delta R.T. 0.00 min
 Lab File: VN058231.D
 Acq: 20 Sep 2019 1:31

Tgt Ion: 74 Resp: 118252
 Ion Ratio Lower Upper
 74 100
 45 101.9 48.5 145.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.416 ug/l

RT: 3.74 min Scan# 612

Delta R.T. 0.00 min

Lab File: VN058231.D

Acq: 20 Sep 2019 1:31

Instrument :

MSVOA_N

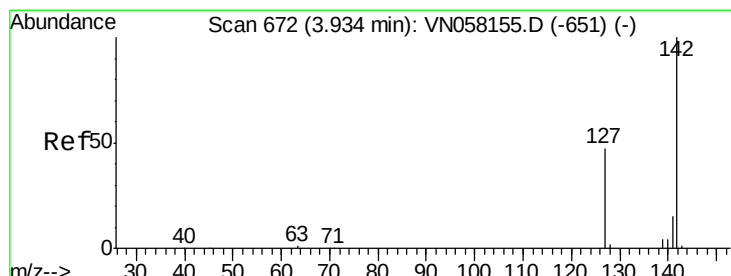
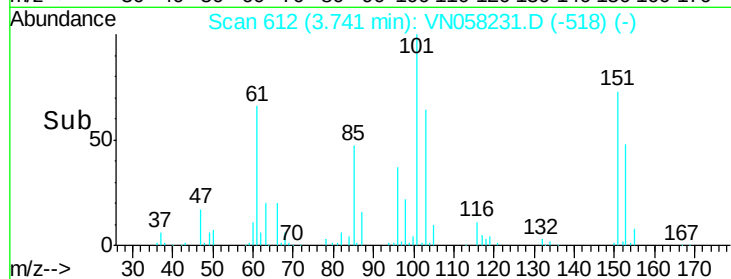
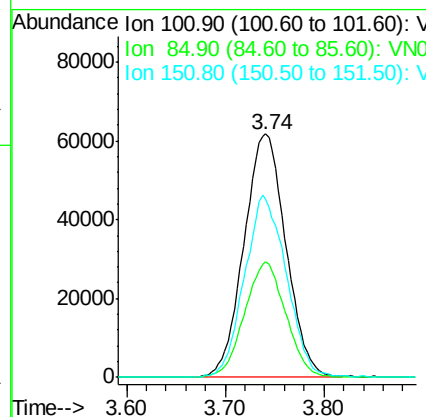
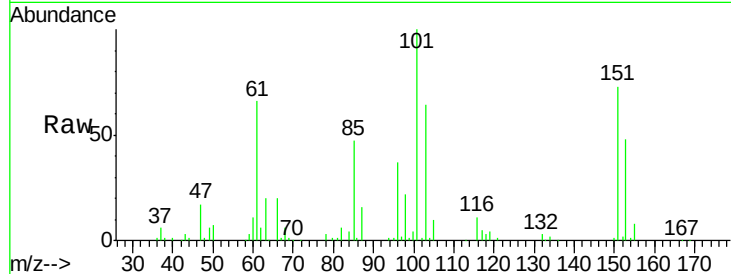
ClientSampleId :

RE123D1-20190912MSD

Tot Ion:	101	Resp:	181873
Ion Ratio	Lower	Upper	
101	100		
85	46.5	37.3	55.9
151	74.6	59.6	89.4

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#10

Methyl Iodide

Concen: 40.659 ug/l

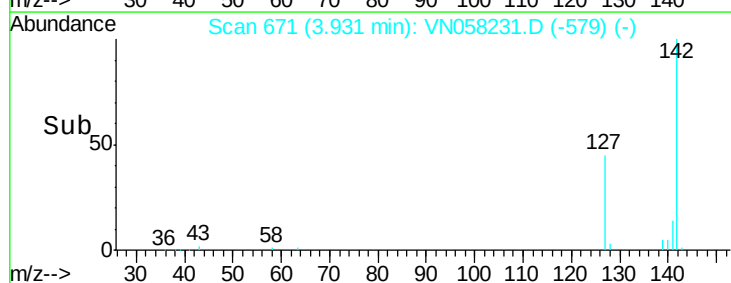
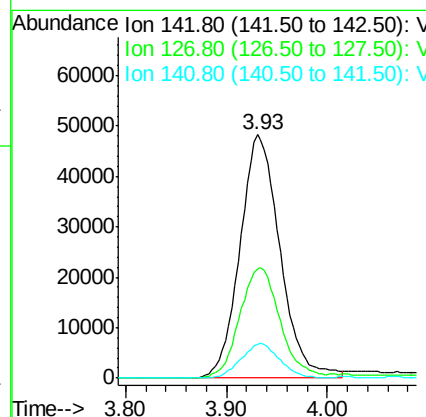
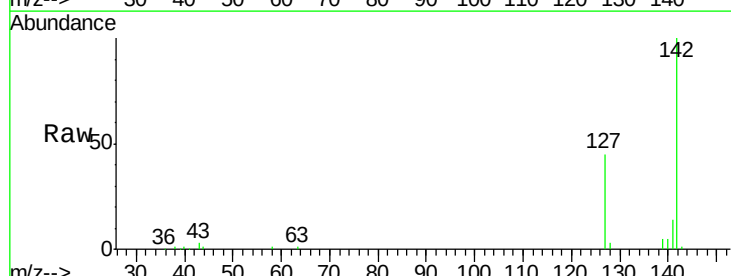
RT: 3.93 min Scan# 671

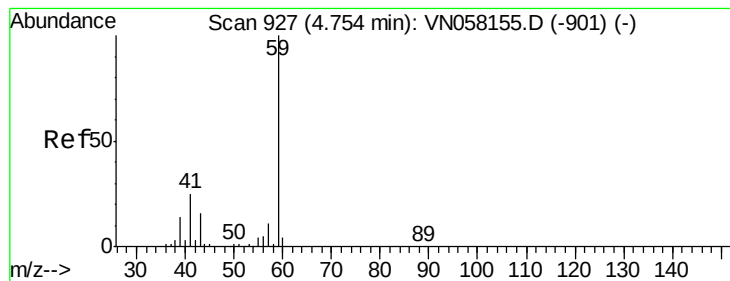
Delta R.T. -0.00 min

Lab File: VN058231.D

Acq: 20 Sep 2019 1:31

Tgt Ion:	142	Resp:	133497
Ion Ratio	Lower	Upper	
142	100		
127	45.4	37.5	56.3
141	13.6	11.4	17.2





#11

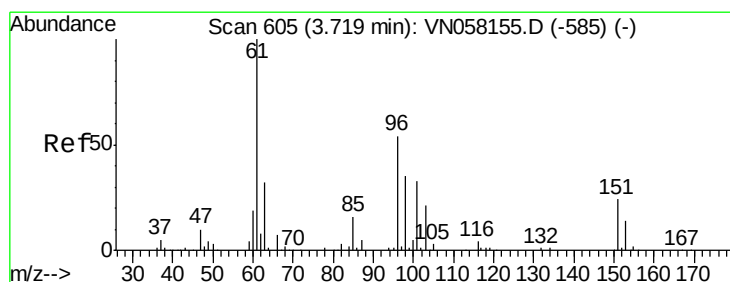
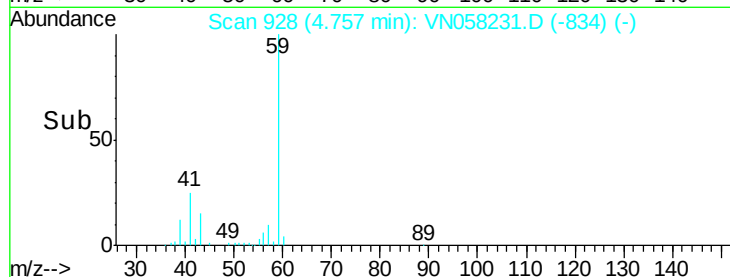
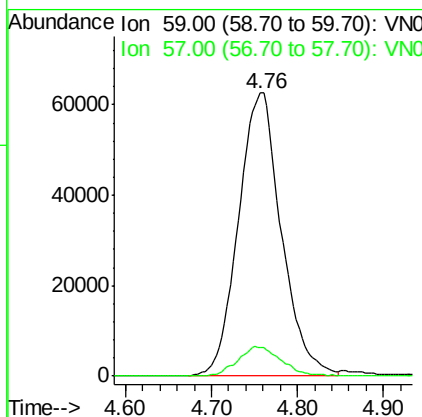
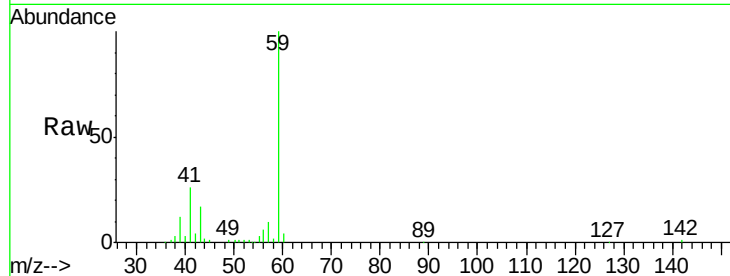
Tert butyl alcohol
 Concen: 270.409 ug/l
 RT: 4.76 min Scan# 928
 Delta R.T. 0.00 min
 Lab File: VN058231.D
 Acq: 20 Sep 2019 1:31

Instrument :
 MSVOA_N
 ClientSampleId :
 RE123D1-20190912MSD

Tot Ion	59	Resp	217143
Ion Ratio	100	Lower	Upper
57	10.6	8.6	13.0

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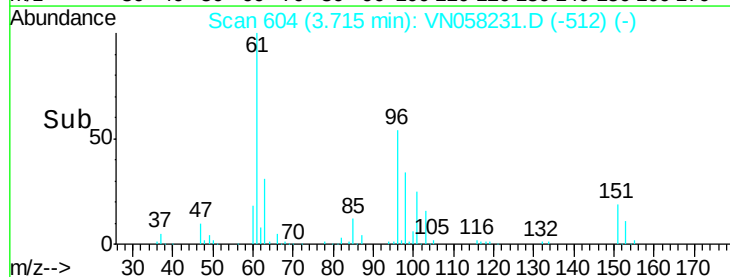
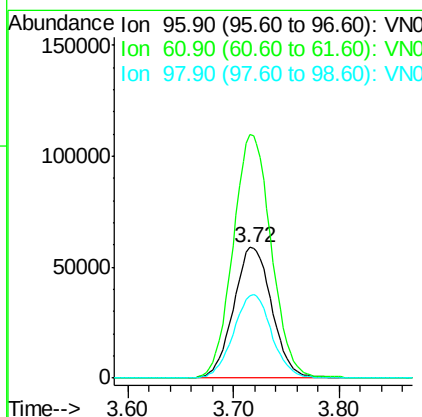
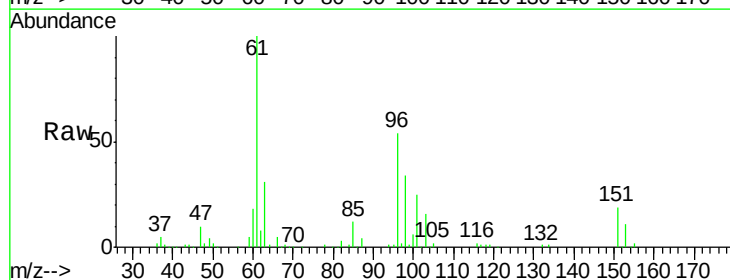
MMDadoda
 9/20/2019 3:37:02 PM

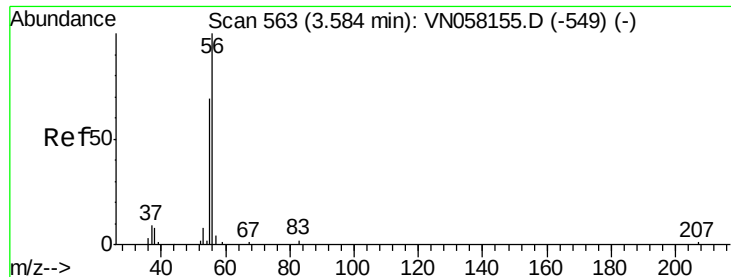


#12

1,1-Dichloroethene
 Concen: 49.896 ug/l
 RT: 3.72 min Scan# 604
 Delta R.T. -0.00 min
 Lab File: VN058231.D
 Acq: 20 Sep 2019 1:31

Tgt Ion	96	Resp	148373
Ion Ratio	100	Lower	Upper
61	186.5	149.5	224.3
98	63.5	52.4	78.6





#13

Acrolein

Concen: 352.787 ug/l

RT: 3.59 min Scan# 564

Delta R.T. 0.00 min

Lab File: VN058231.D

Acq: 20 Sep 2019 1:31

Instrument :

MSVOA_N

ClientSampleId :

RE123D1-20190912MSD

Tot Ion: 56 Resp: 41983

Ion Ratio Lower Upper

56 100

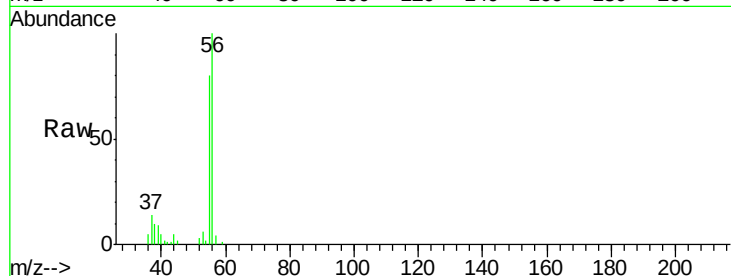
55 74.0 56.1 84.1

Manual Integrations

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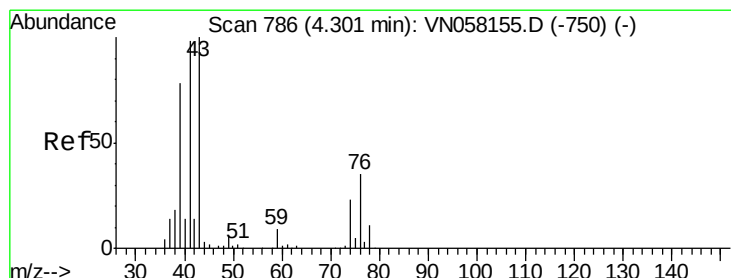
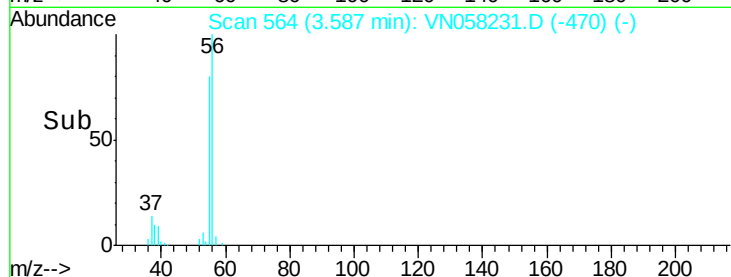
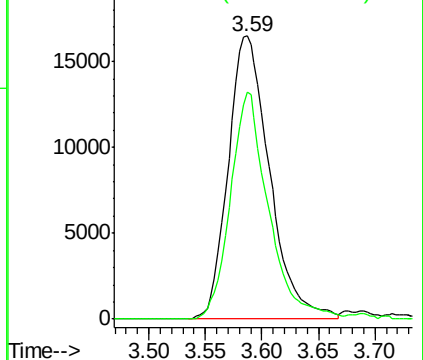
MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 41.435 ug/l

RT: 4.30 min Scan# 787

Delta R.T. 0.00 min

Lab File: VN058231.D

Acq: 20 Sep 2019 1:31

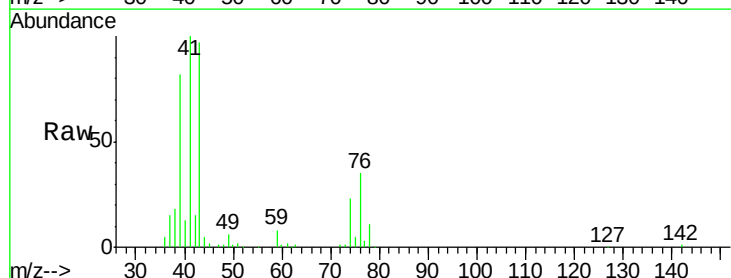
Tgt Ion: 41 Resp: 265671

Ion Ratio Lower Upper

41 100

39 85.4 59.1 88.7

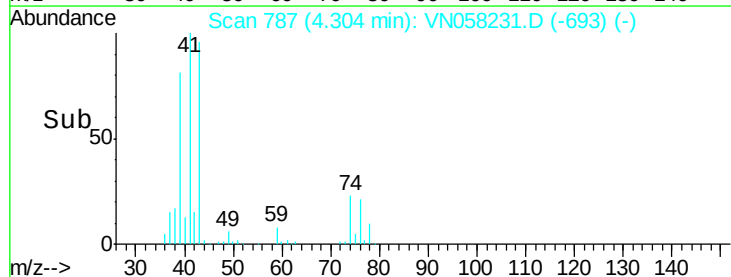
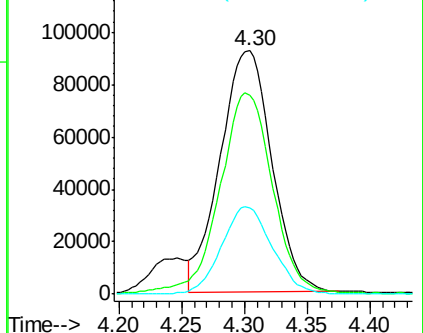
76 35.5 25.1 37.7

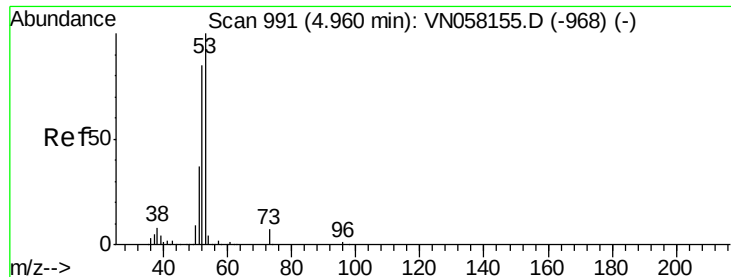


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 266.510 ug/l

RT: 4.96 min Scan# 991

Delta R.T. -0.00 min

Lab File: VN058231.D

Acq: 20 Sep 2019 1:31

Instrument :

MSVOA_N

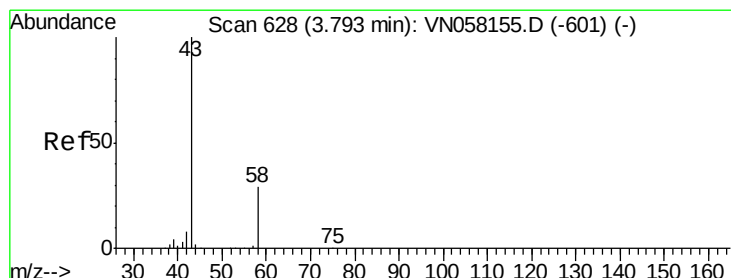
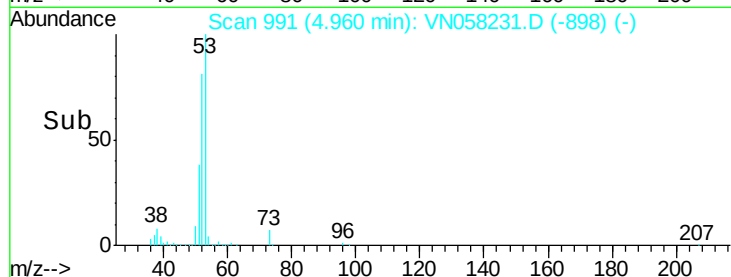
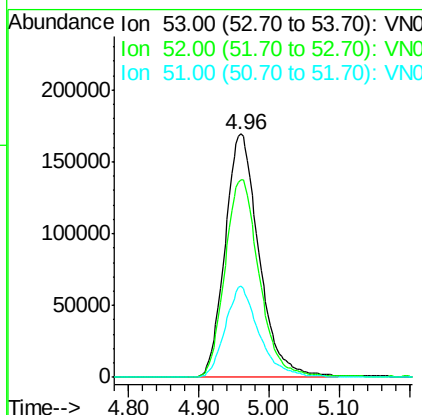
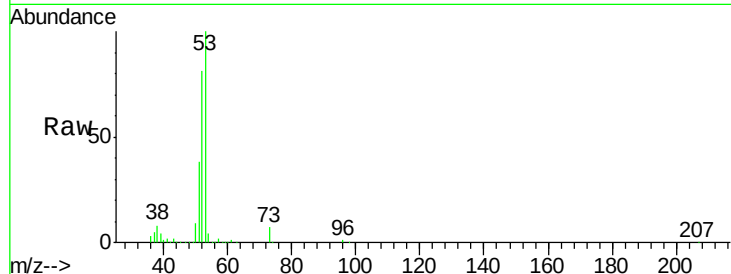
ClientSampleId :

RE123D1-20190912MSD

Tot Ion:	53	Resp:	570187
Ion Ratio		Lower	Upper
53	100		
52	82.1	66.6	100.0
51	37.3	29.7	44.5

Manual Integrations
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#16

Acetone

Concen: 219.025 ug/l

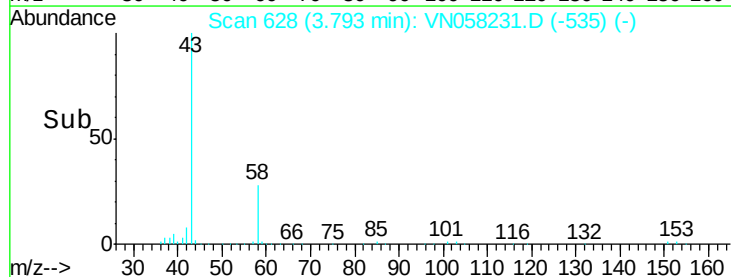
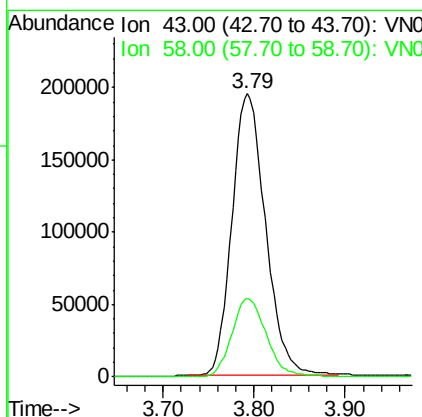
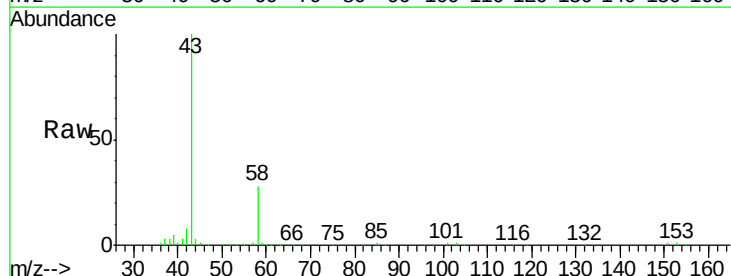
RT: 3.79 min Scan# 628

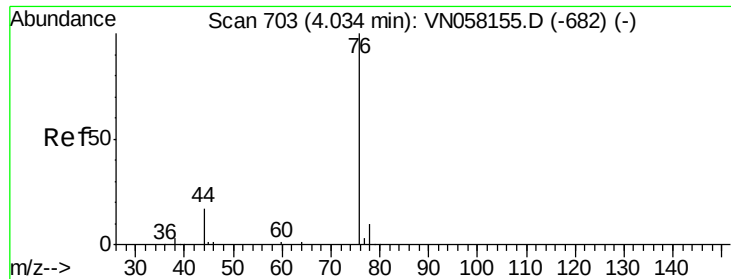
Delta R.T. -0.00 min

Lab File: VN058231.D

Acq: 20 Sep 2019 1:31

Tgt Ion:	43	Resp:	501888
Ion Ratio		Lower	Upper
43	100		
58	27.8	23.4	35.2





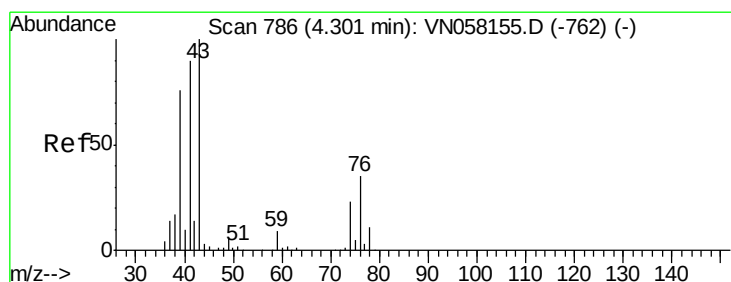
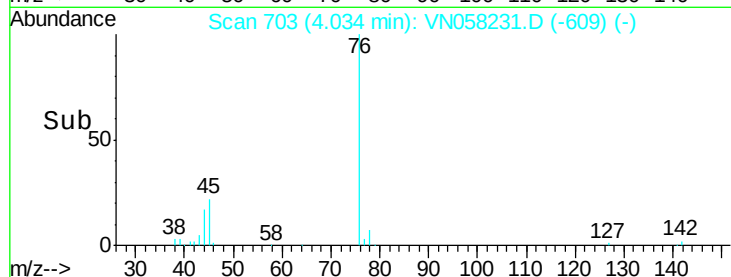
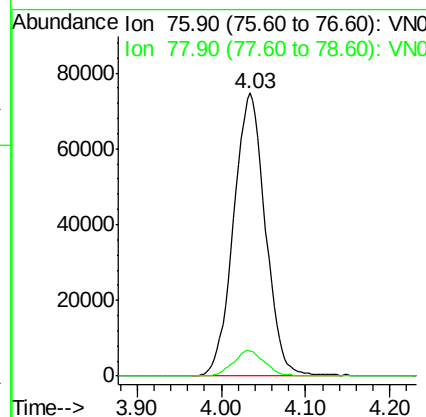
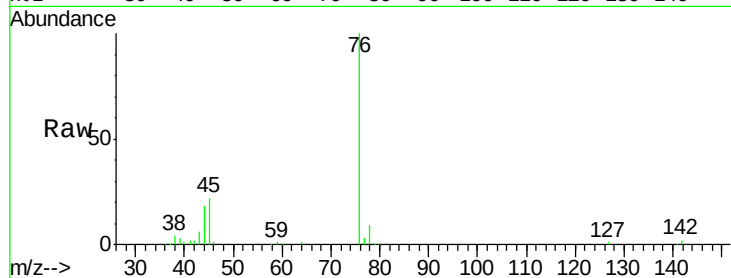
#17
Carbon Disulfide
Concen: 46.840 ug/l
RT: 4.03 min Scan# 703
Delta R.T. 0.00 min
Lab File: VN058231.D
Acq: 20 Sep 2019 1:31

Instrument :
MSVOA_N
ClientSampleId :
RE123D1-20190912MSD

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.7	11.5

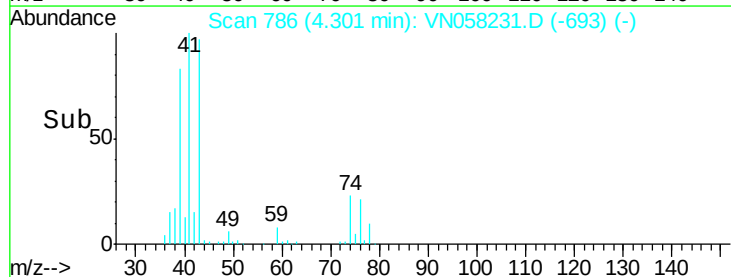
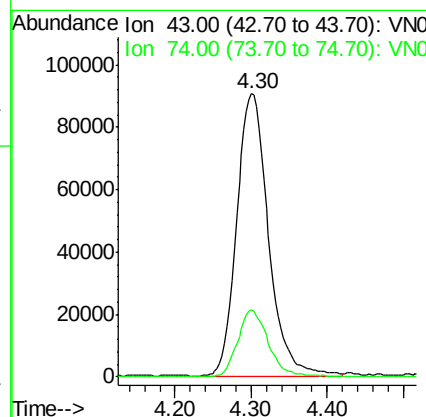
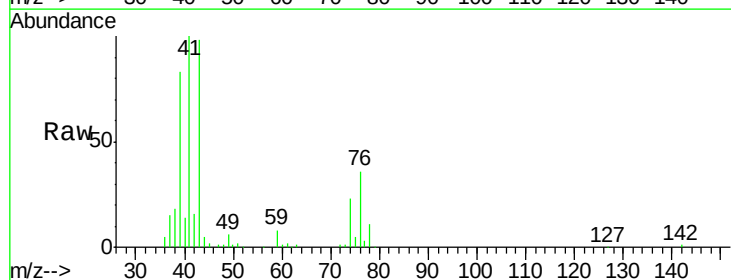
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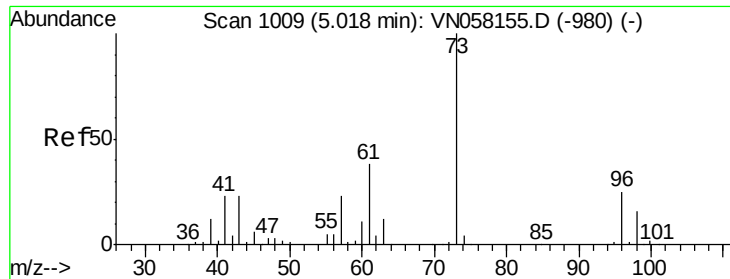
MMDadoda
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#18
Methyl Acetate
Concen: 43.489 ug/l
RT: 4.30 min Scan# 786
Delta R.T. -0.00 min
Lab File: VN058231.D
Acq: 20 Sep 2019 1:31

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.0	18.0	27.0





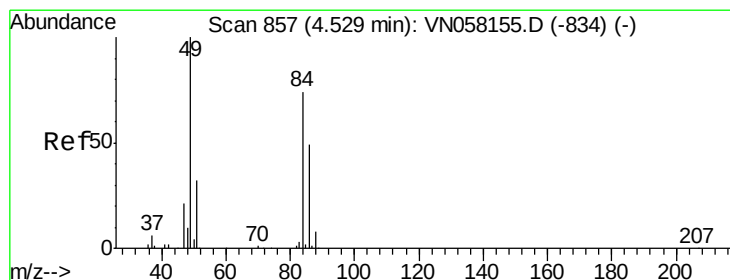
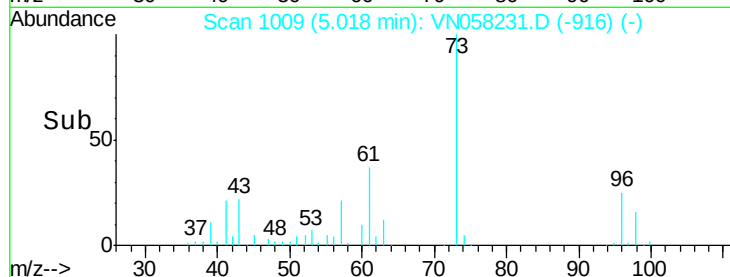
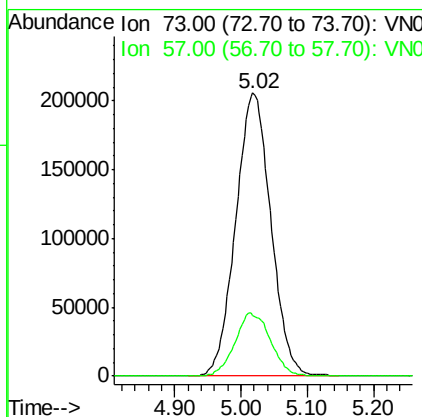
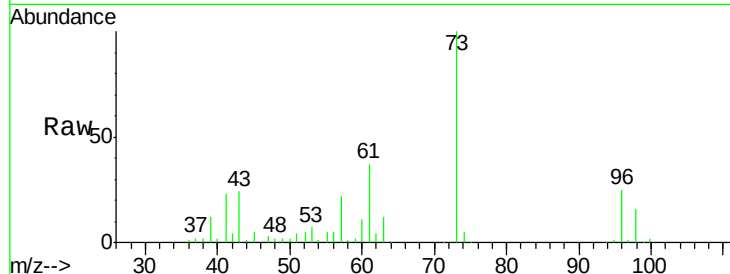
#19
Methvl tert-butyl Ether
Concen: 51.343 ug/l
RT: 5.02 min Scan# 1009
Delta R.T. -0.00 min
Lab File: VN058231.D
Acq: 20 Sep 2019 1:31

Instrument :
MSVOA_N
ClientSampleId :
RE123D1-20190912MSD

Tot Ion: 73 Resp: 758791
Ion Ratio Lower Upper
73 100
57 21.6 18.1 27.1

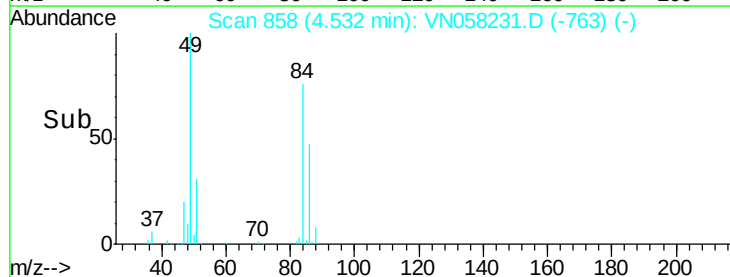
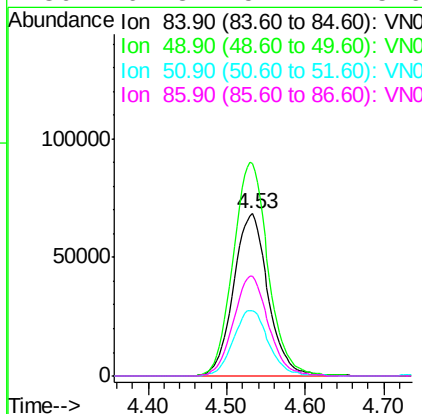
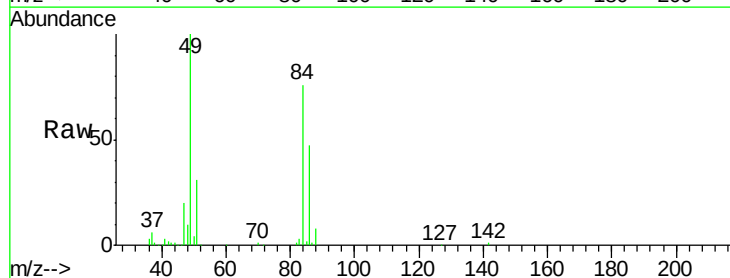
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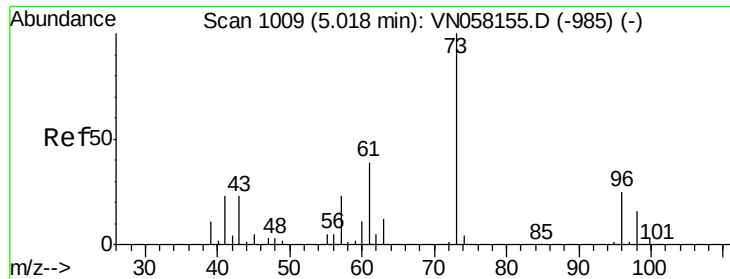
MMDadoda
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#20
Methylene Chloride
Concen: 52.553 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.00 min
Lab File: VN058231.D
Acq: 20 Sep 2019 1:31

Tgt Ion: 84 Resp: 210791
Ion Ratio Lower Upper
84 100
49 130.9 107.5 161.3
51 40.3 33.9 50.9
86 61.3 52.4 78.6





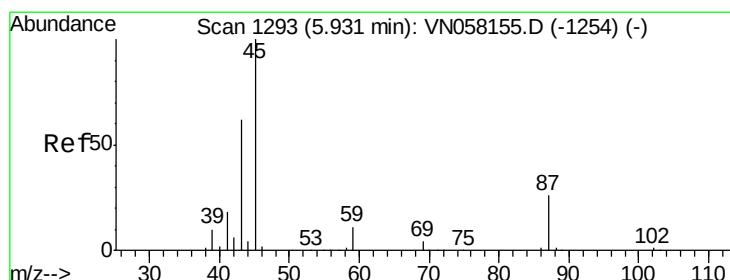
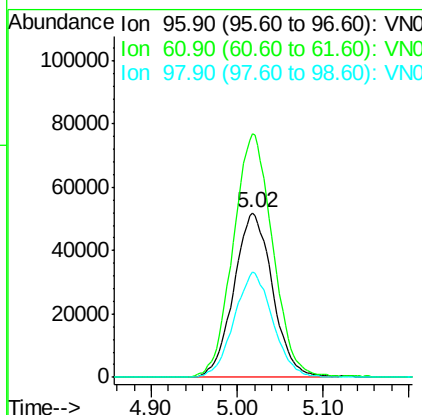
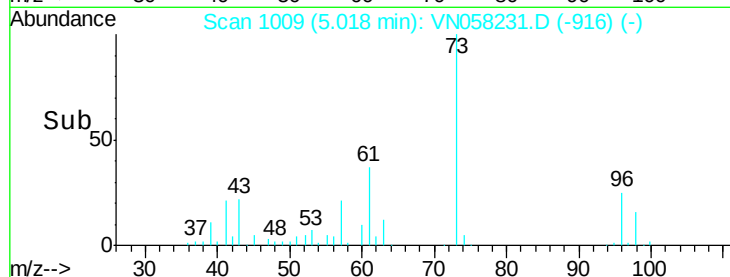
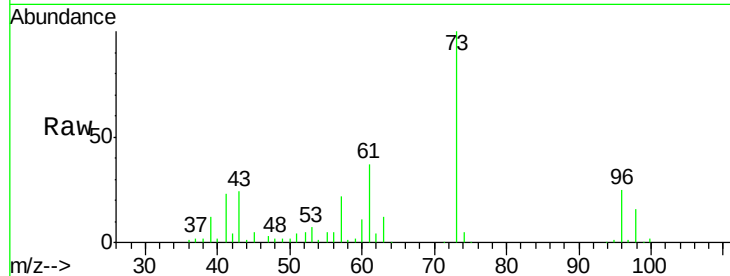
#21
trans-1,2-Dichloroethene
Concen: 50.270 ug/l
RT: 5.02 min Scan# 1009
Delta R.T. 0.00 min
Lab File: VN058231.D
Acq: 20 Sep 2019 1:31

Instrument :
MSVOA_N
ClientSampleId :
RE123D1-20190912MSD

Tot Ion	Ratio	Lower	Upper
96	100		
61	147.5	122.2	183.4
98	64.2	49.9	74.9

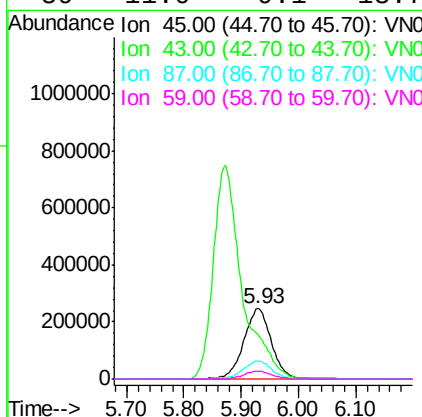
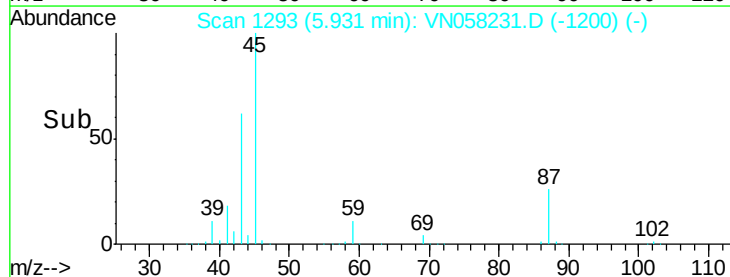
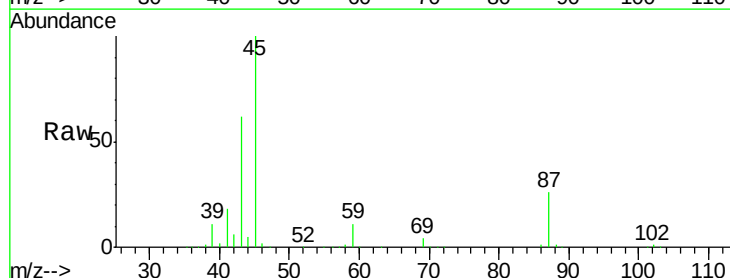
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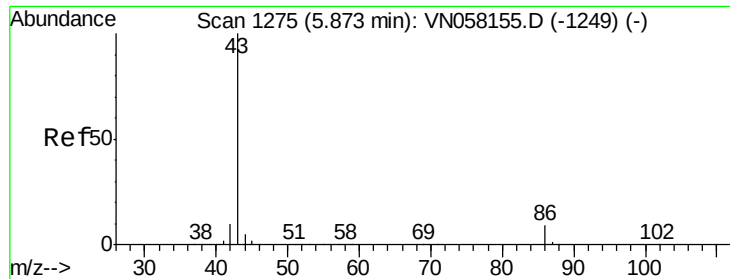
MMDadoda
9/20/2019 3:37:02 PM



#22
Diisopropyl ether
Concen: 50.965 ug/l
RT: 5.93 min Scan# 1293
Delta R.T. -0.00 min
Lab File: VN058231.D
Acq: 20 Sep 2019 1:31

Tgt Ion	Ratio	Lower	Upper
45	100		
43	61.6	49.7	74.5
87	26.1	20.7	31.1
59	11.0	9.1	13.7





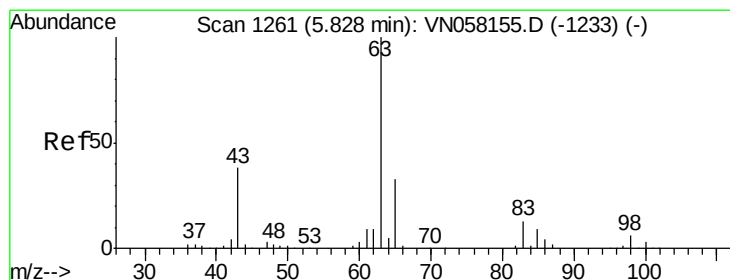
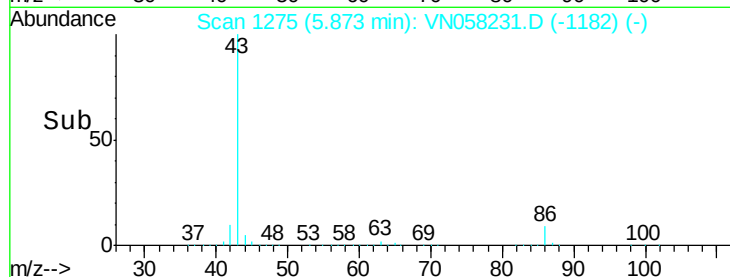
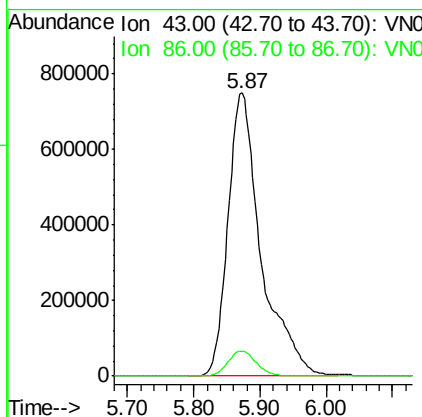
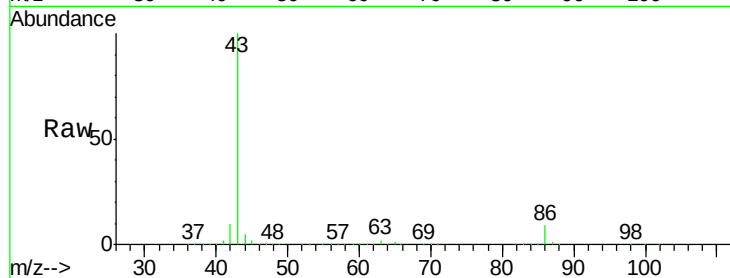
#23
 Vinyl Acetate
 Concen: 233.587 ug/l
 RT: 5.87 min Scan# 1275
 Delta R.T. -0.00 min
 Lab File: VN058231.D
 Acq: 20 Sep 2019 1:31

Instrument :
 MSVOA_N
 ClientSampleId :
 RE123D1-20190912MSD

Tot Ion: 43 Resp: 2603216
 Ion Ratio Lower Upper
 43 100
 86 9.0 7.4 11.2

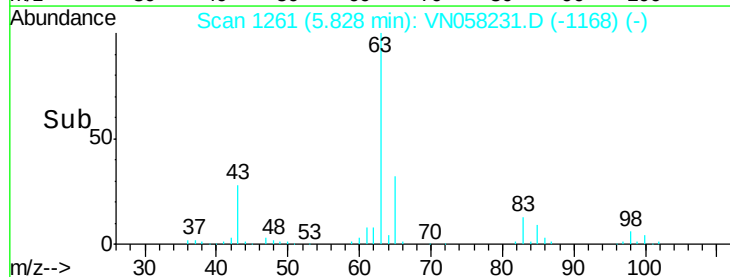
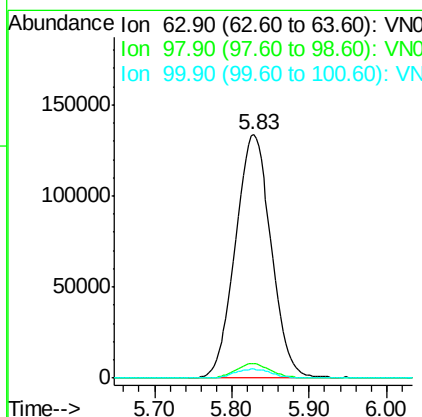
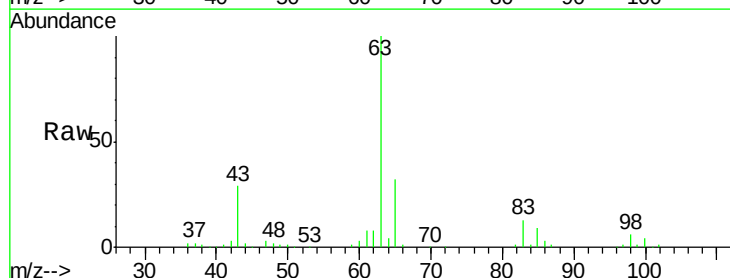
Manual Integrations
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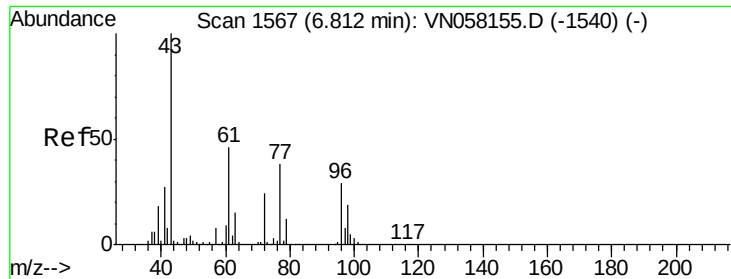
MMDadoda
 9/20/2019 3:37:02 PM



#24
 1,1-Dichloroethane
 Concen: 49.411 ug/l
 RT: 5.83 min Scan# 1261
 Delta R.T. -0.00 min
 Lab File: VN058231.D
 Acq: 20 Sep 2019 1:31

Tgt Ion: 63 Resp: 429512
 Ion Ratio Lower Upper
 63 100
 98 6.1 2.9 8.6
 100 3.6 1.8 5.3





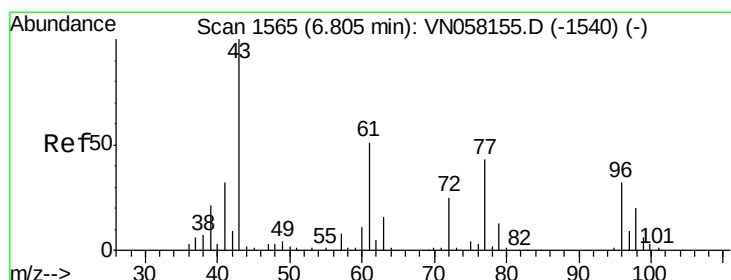
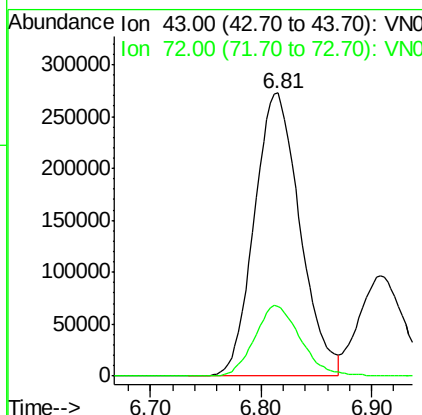
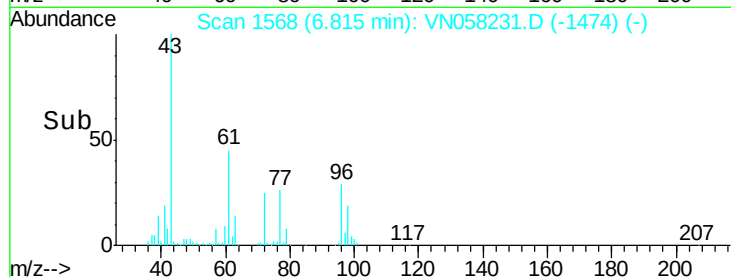
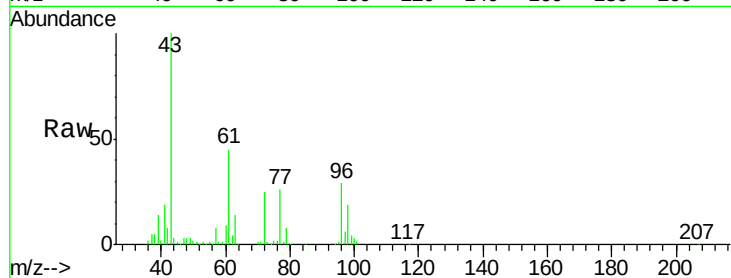
#25
2-Butanone
Concen: 249.714 ug/l
RT: 6.81 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VN058231.D
Acq: 20 Sep 2019 1:31

Instrument :
MSVOA_N
ClientSampleId :
RE123D1-20190912MSD

Tot Ion: 43 Resp: 779569
Ion Ratio Lower Upper
43 100
72 24.8 19.5 29.3

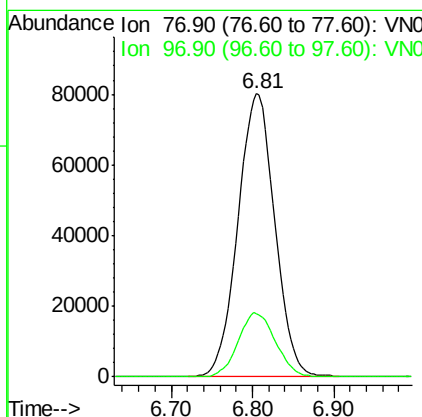
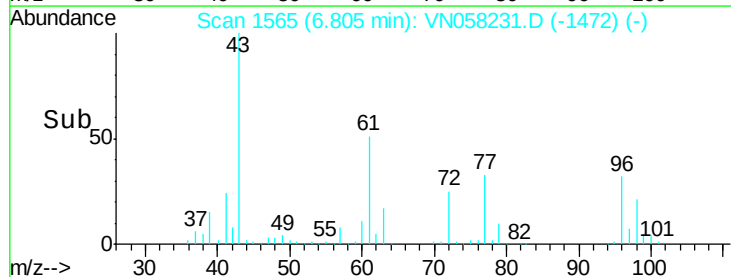
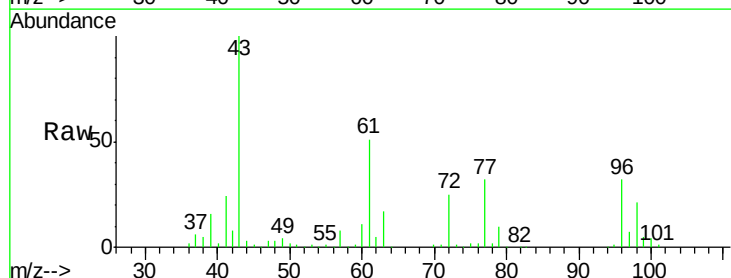
Manual Integrations
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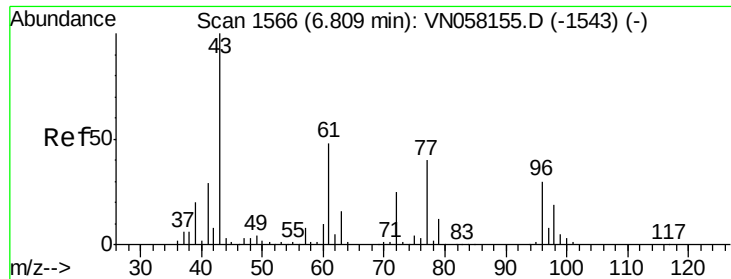
MMDadoda
9/20/2019 3:37:02 PM



#26
2,2-Dichloropropane
Concen: 33.981 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. -0.00 min
Lab File: VN058231.D
Acq: 20 Sep 2019 1:31

Tgt Ion: 77 Resp: 250596
Ion Ratio Lower Upper
77 100
97 22.9 10.5 31.6





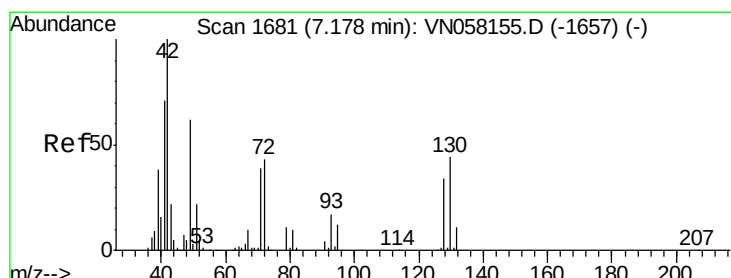
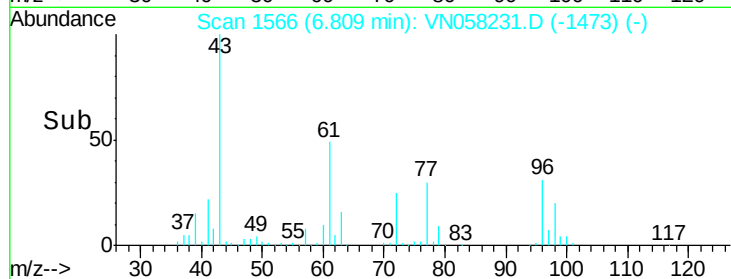
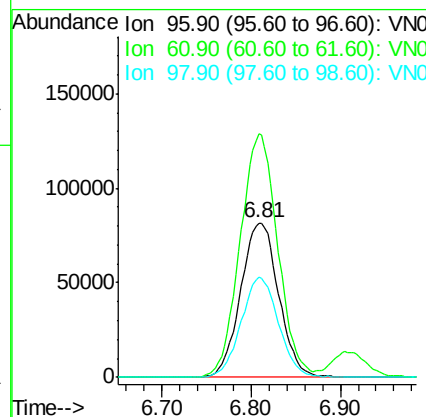
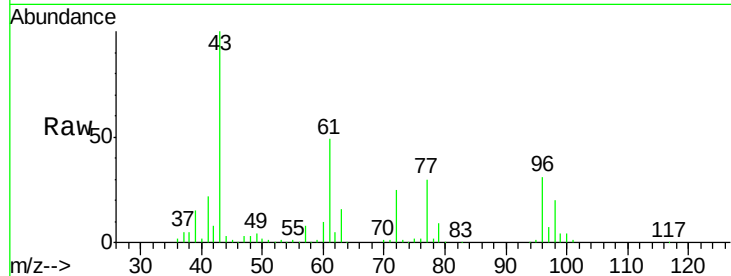
#27
 cis-1,2-Dichloroethene
 Concen: 49.158 ug/l
 RT: 6.81 min Scan# 1566
 Delta R.T. -0.00 min
 Lab File: VN058231.D
 Acq: 20 Sep 2019 1:31

Instrument :
 MSVOA_N
 ClientSampleId :
 RE123D1-20190912MSD

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	156.1	0.0	319.0	
98	64.1	0.0	126.6	

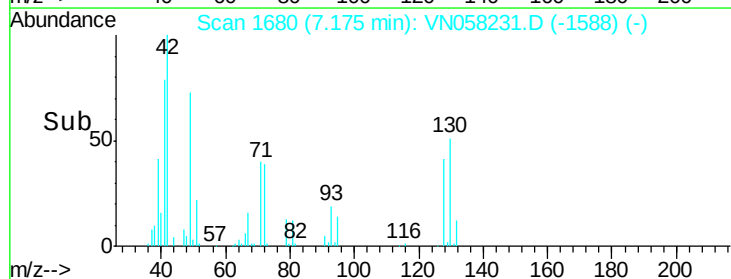
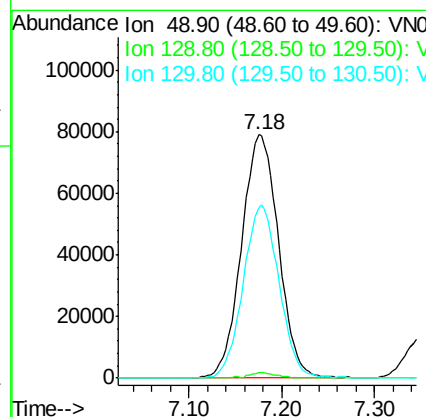
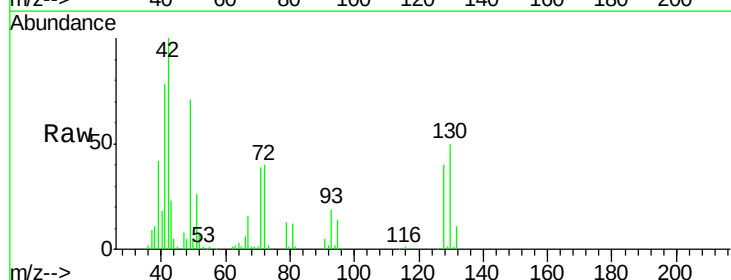
Manual Integrations
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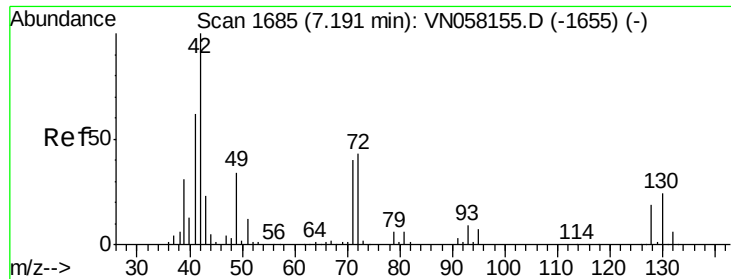
MMDadoda
 9/20/2019 3:37:02 PM



#28
 Bromochloromethane
 Concen: 53.149 ug/l
 RT: 7.18 min Scan# 1680
 Delta R.T. -0.00 min
 Lab File: VN058231.D
 Acq: 20 Sep 2019 1:31

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	1.6	0.0	1.8	
130	68.9	55.4	83.2	





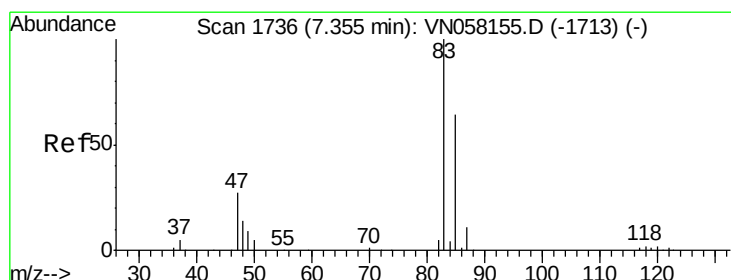
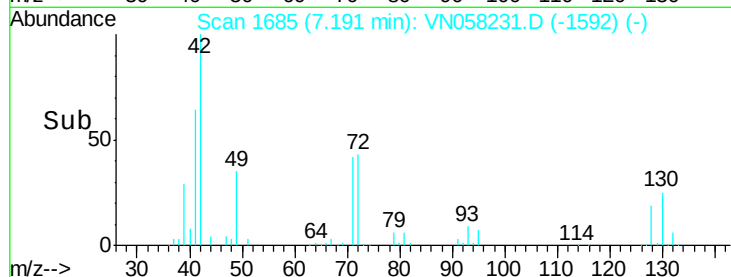
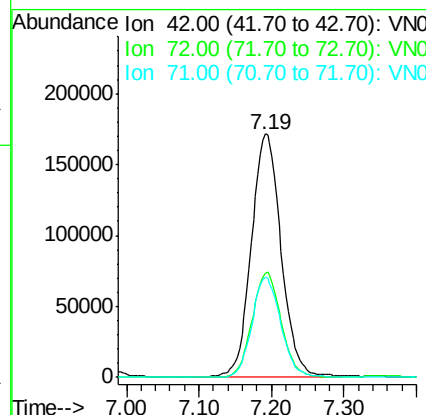
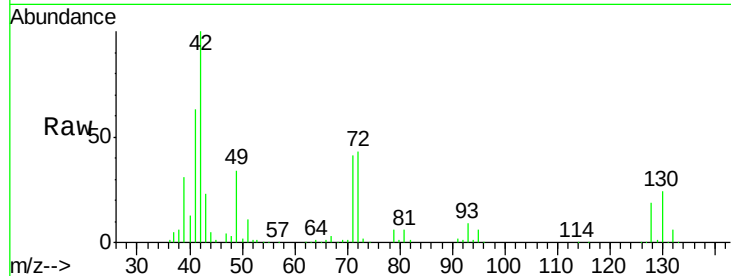
#29
Tetrahydrofuran
Concen: 255.055 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. -0.00 min
Lab File: VN058231.D
Acq: 20 Sep 2019 1:31

Instrument :
MSVOA_N
ClientSampleId :
RE123D1-20190912MSD

Tot Ion	Ratio	Lower	Upper
42	100		
72	42.0	33.8	50.6
71	39.9	31.4	47.0

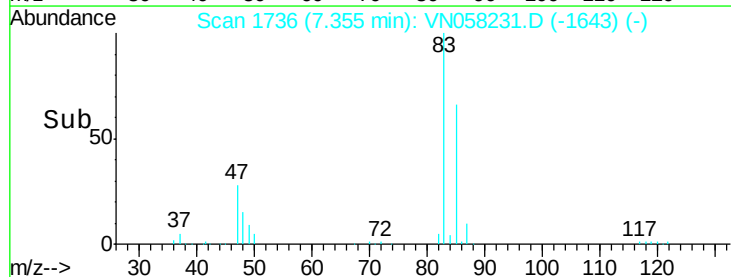
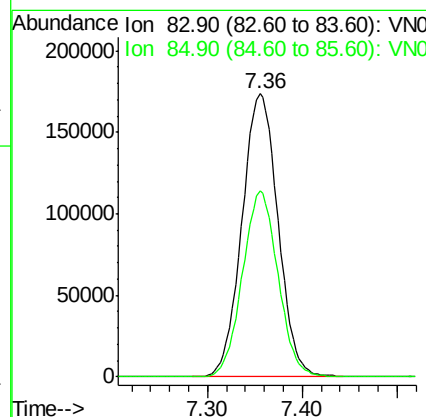
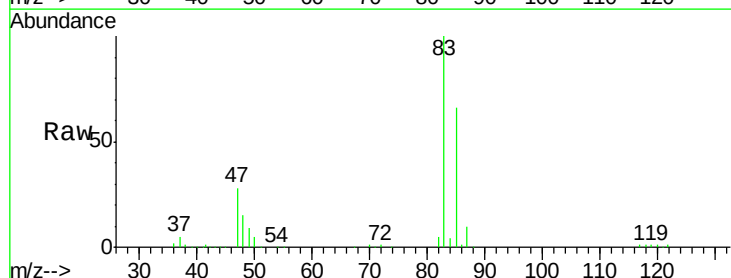
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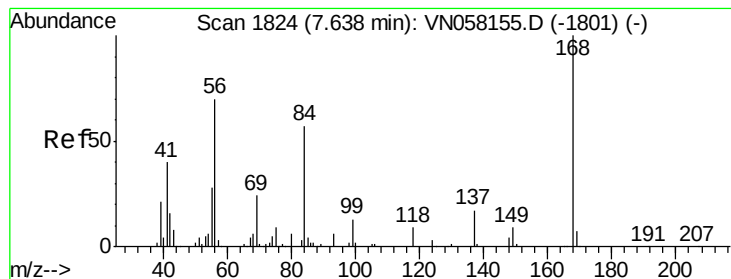
MMDadoda
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#30
Chloroform
Concen: 49.067 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. -0.00 min
Lab File: VN058231.D
Acq: 20 Sep 2019 1:31

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.7	51.4	77.2





#31

Cyclohexane

Concen: 49.381 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.00 min

Lab File: VN058231.D

Acq: 20 Sep 2019 1:31

Instrument :

MSVOA_N

ClientSampleId :

RE123D1-20190912MSD

Tot Ion: 56 Resp: 277640

Ion Ratio Lower Upper

56 100

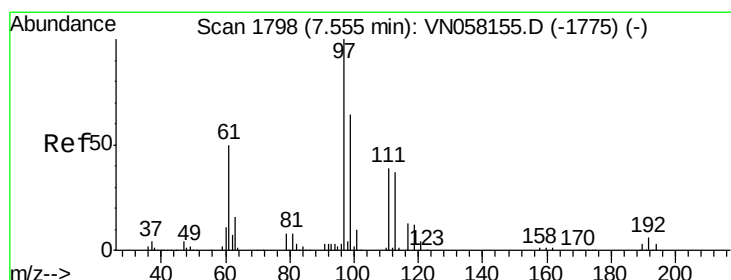
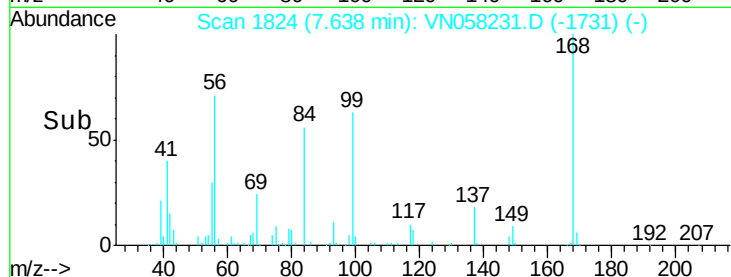
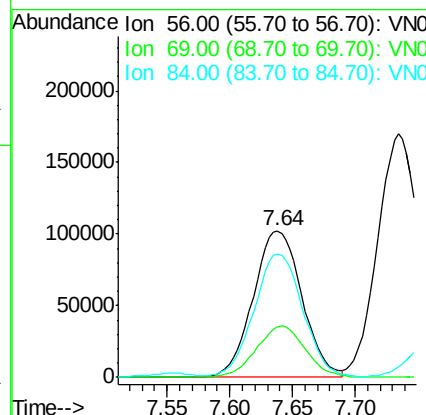
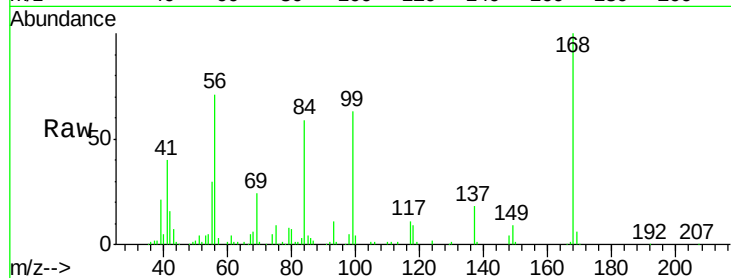
69 34.6 27.3 40.9

84 82.3 65.0 97.4

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 50.951 ug/l

RT: 7.55 min Scan# 1798

Delta R.T. -0.00 min

Lab File: VN058231.D

Acq: 20 Sep 2019 1:31

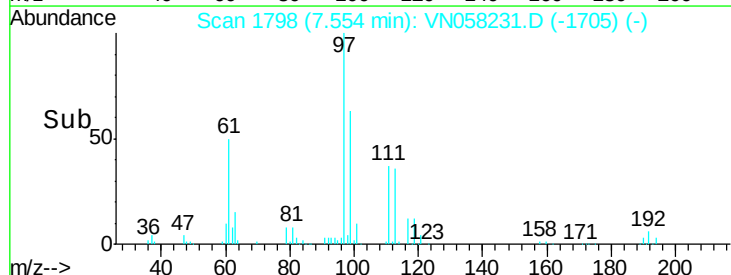
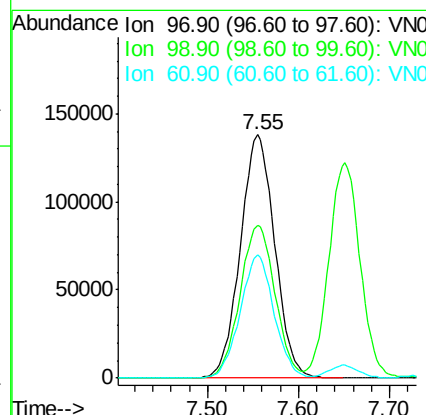
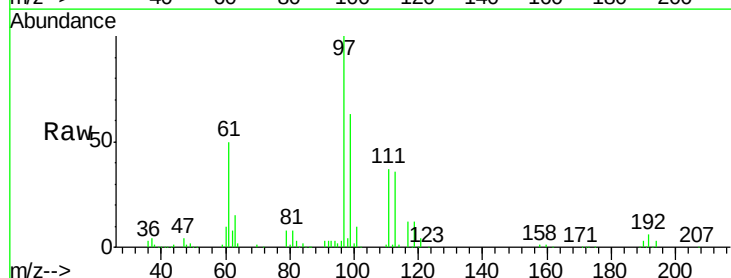
Tgt Ion: 97 Resp: 362936

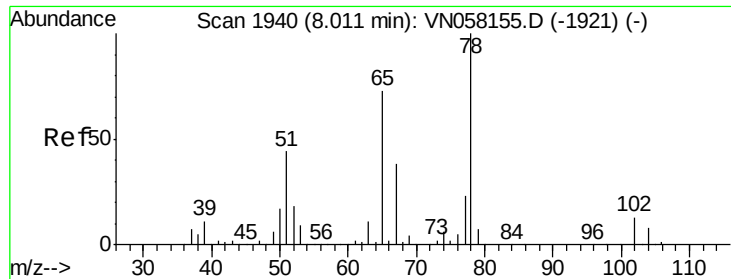
Ion Ratio Lower Upper

97 100

99 64.1 50.9 76.3

61 49.9 39.2 58.8





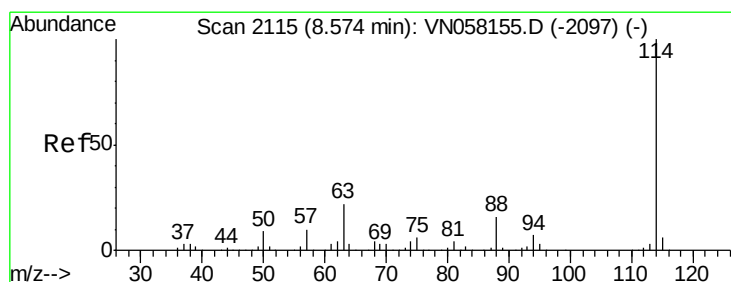
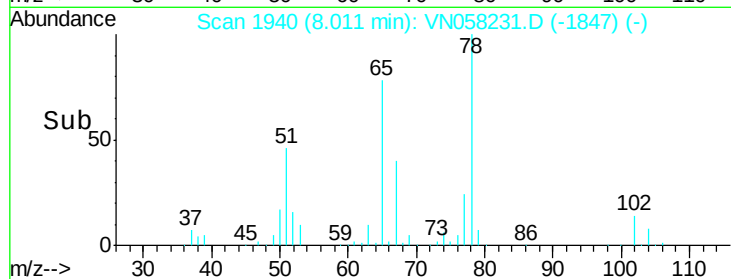
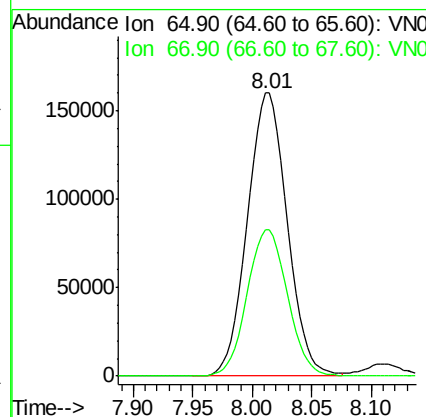
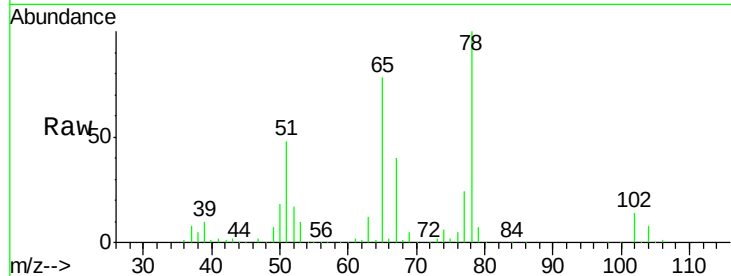
#33
 1,2-Dichloroethane-d4
 Concen: 55.061 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. -0.00 min
 Lab File: VN058231.D
 Acq: 20 Sep 2019 1:31

Instrument :
 MSVOA_N
 ClientSampleId :
 RE123D1-20190912MSD

Tot Ion	Ratio	Resp	Lower	Upper
65	100	371703		
67	52.5	0.0	103.4	

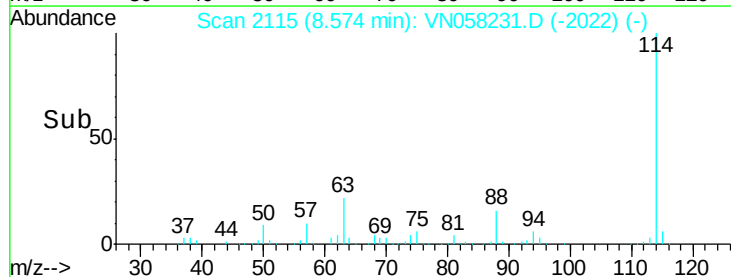
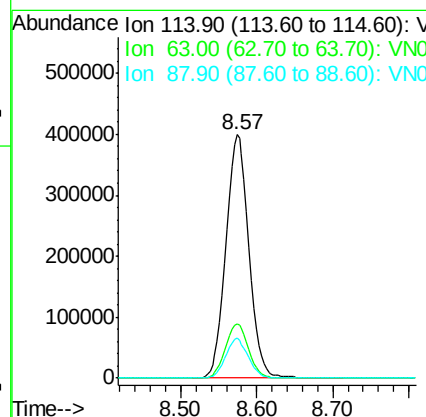
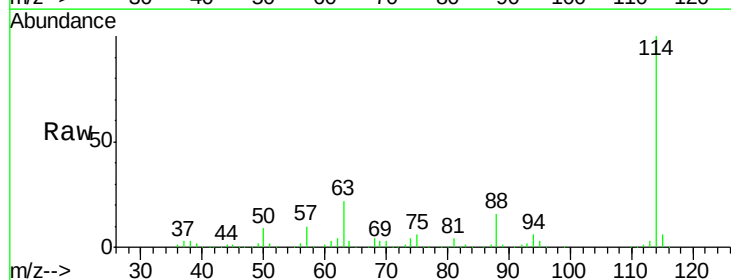
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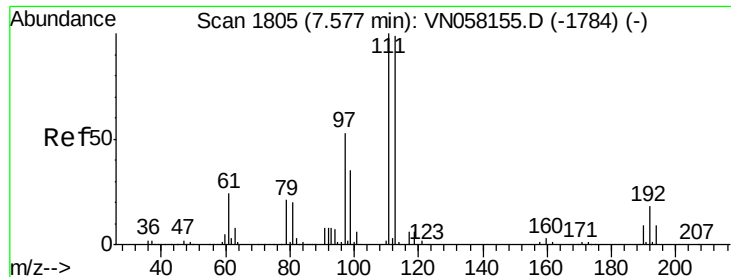
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058231.D
 Acq: 20 Sep 2019 1:31

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	839954		
63	22.1	0.0	44.2	
88	16.3	0.0	31.6	





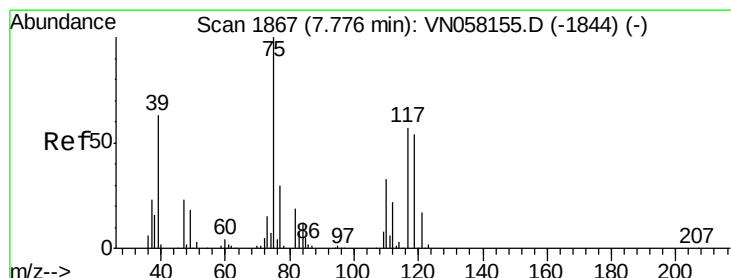
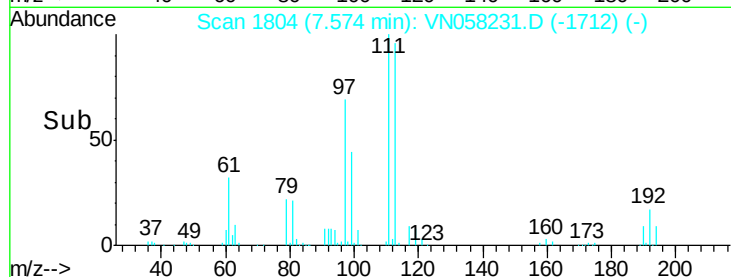
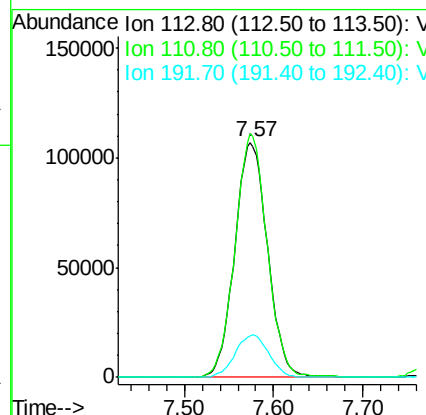
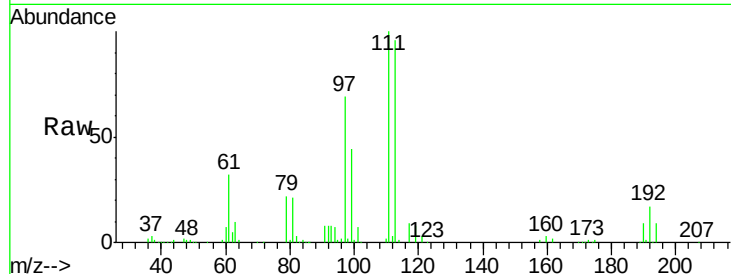
#35
 Dibromofluoromethane
 Concen: 53.426 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VN058231.D
 Acq: 20 Sep 2019 1:31

Instrument :
 MSVOA_N
 ClientSampleId :
 RE123D1-20190912MSD

Tot Ion	Ratio	Resp	Lower	Upper
113	100	272803		
111	100.9	81.8	122.6	
192	18.4	14.5	21.7	

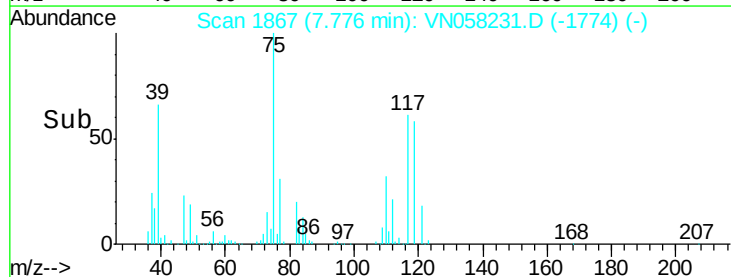
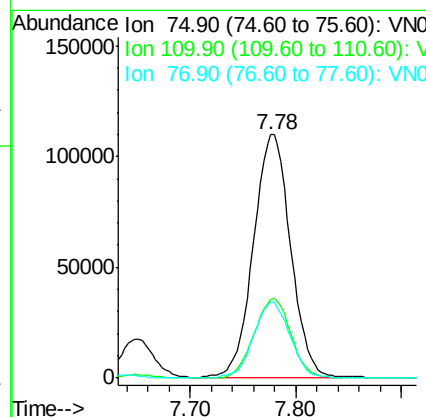
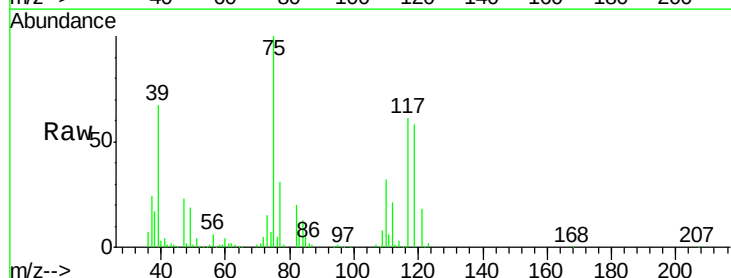
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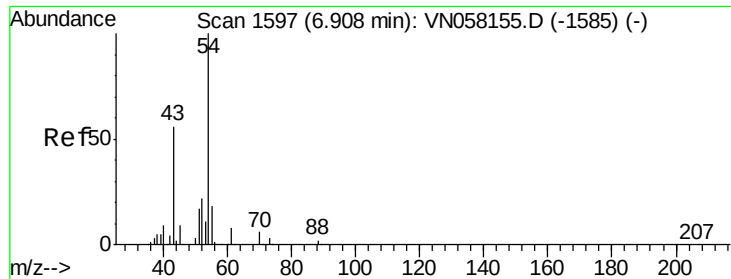
MMDadoda
 9/20/2019 3:37:02 PM



#36
 1,1-Dichloropropene
 Concen: 44.204 ug/l
 RT: 7.78 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN058231.D
 Acq: 20 Sep 2019 1:31

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	267755		
110	32.9	16.6	49.7	
77	31.1	24.3	36.5	





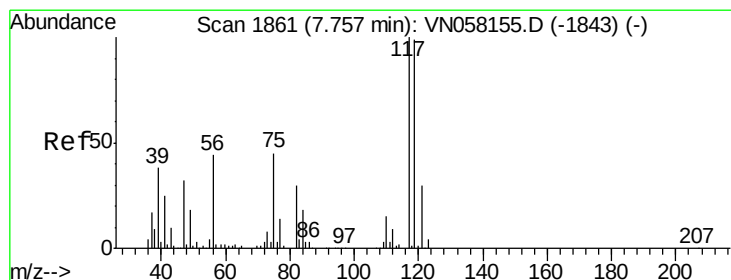
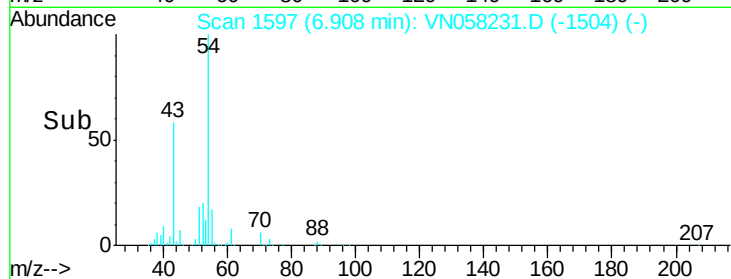
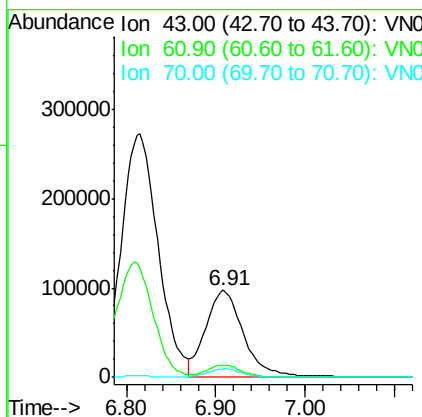
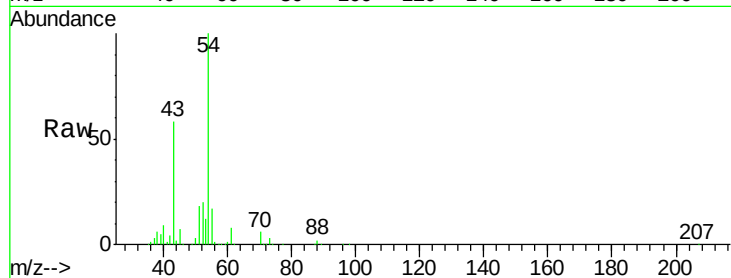
#37
Ethyl Acetate
Concen: 44.688 ug/l
RT: 6.91 min Scan# 1597
Delta R.T. -0.00 min
Lab File: VN058231.D
Acq: 20 Sep 2019 1:31

Instrument :
MSVOA_N
ClientSampleId :
RE123D1-20190912MSD

Tot Ion	Ratio	Resp	Lower	Upper
43	100			
61	12.8	10.7	16.1	
70	8.5	7.6	11.4	

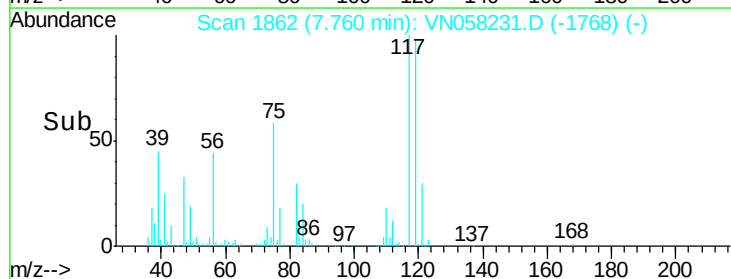
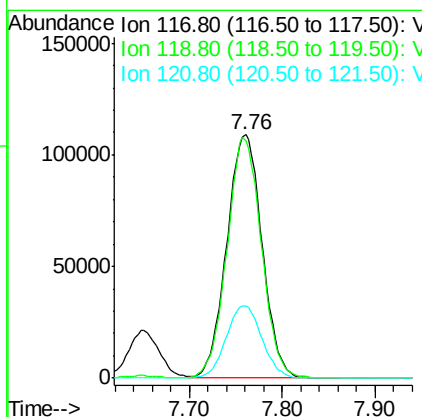
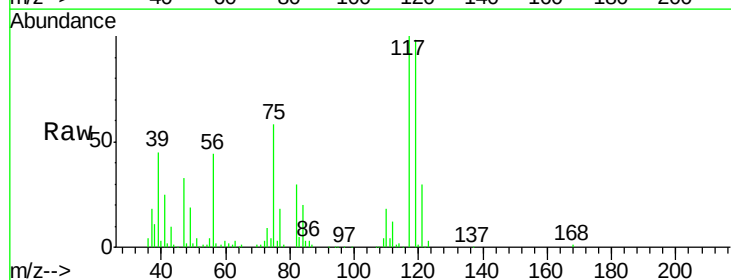
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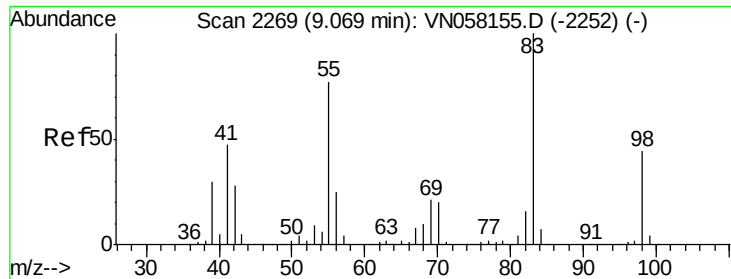
MMDadoda
9/20/2019 3:37:02 PM



#38
Carbon Tetrachloride
Concen: 47.293 ug/l
RT: 7.76 min Scan# 1862
Delta R.T. 0.00 min
Lab File: VN058231.D
Acq: 20 Sep 2019 1:31

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
119	97.5	78.6	117.8	
121	29.9	24.1	36.1	





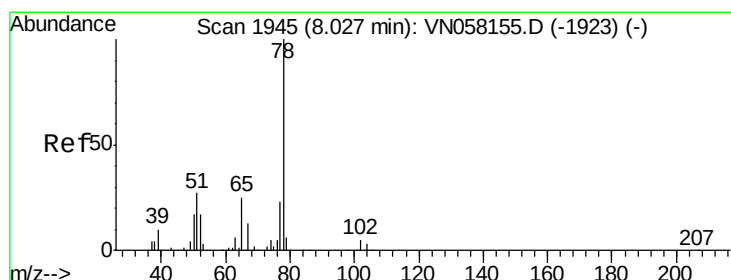
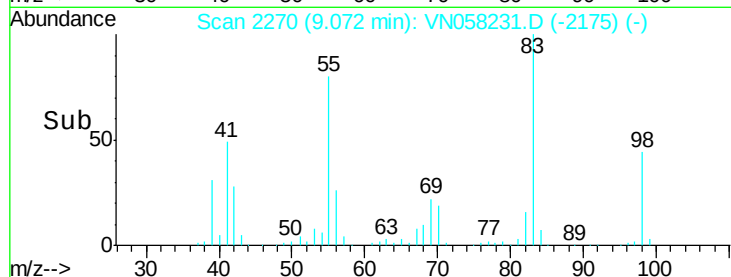
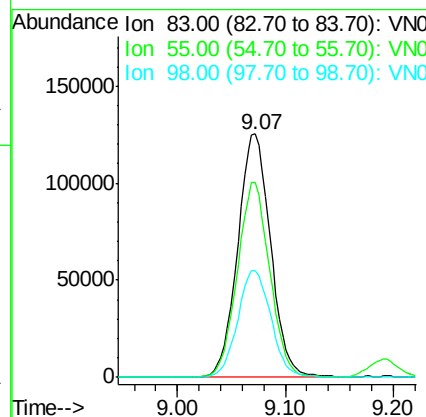
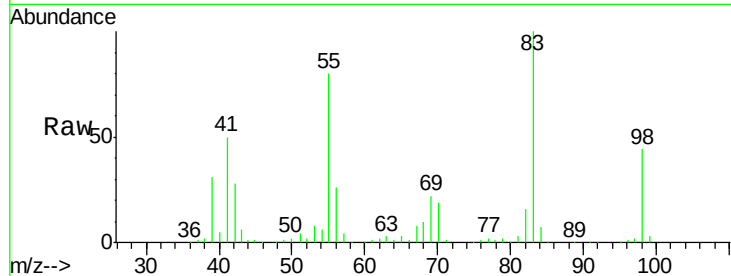
#39
Methylvlcyclohexane
Concen: 45.555 ug/l
RT: 9.07 min Scan# 2270
Delta R.T. 0.00 min
Lab File: VN058231.D
Acq: 20 Sep 2019 1:31

Instrument :
MSVOA_N
ClientSampleId :
RE123D1-20190912MSD

Tot Ion	83	Resp	266760
Ion Ratio	100	Lower	Upper
83	100		
55	79.8	61.9	92.9
98	43.9	35.4	53.2

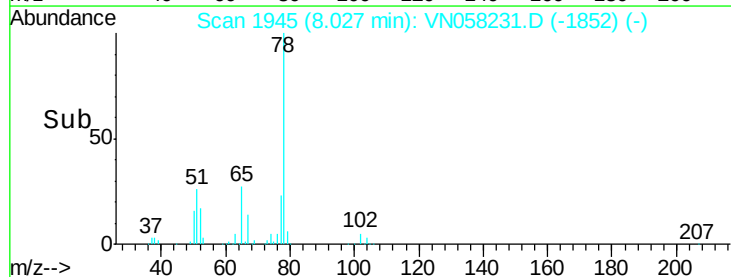
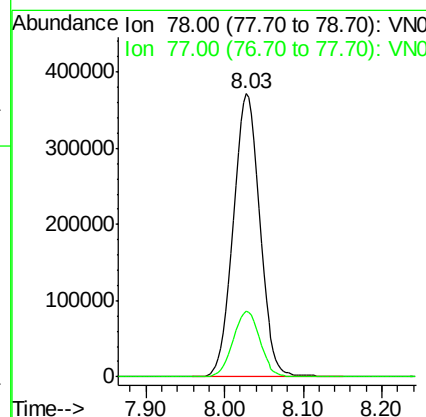
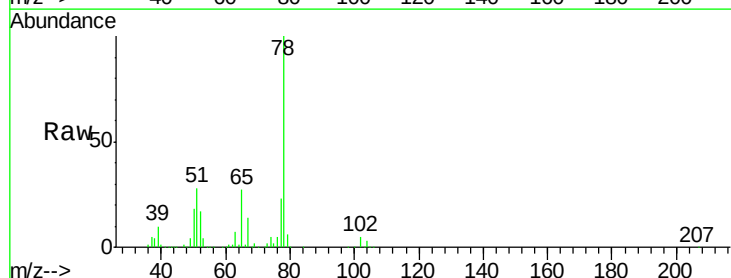
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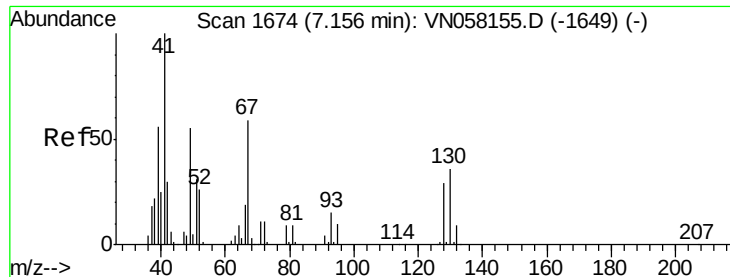
MMDadoda
9/20/2019 3:37:02 PM



#40
Benzene
Concen: 47.063 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN058231.D
Acq: 20 Sep 2019 1:31

Tgt Ion	78	Resp	870715
Ion Ratio	100	Lower	Upper
78	100		
77	23.1	18.8	28.2





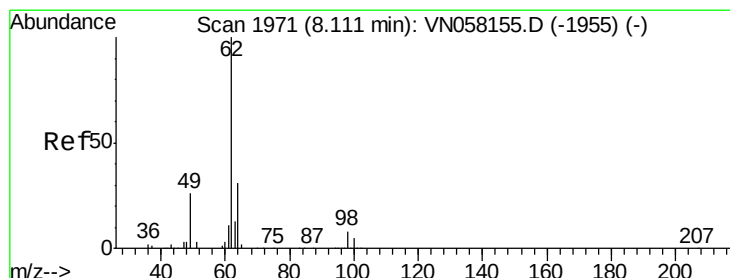
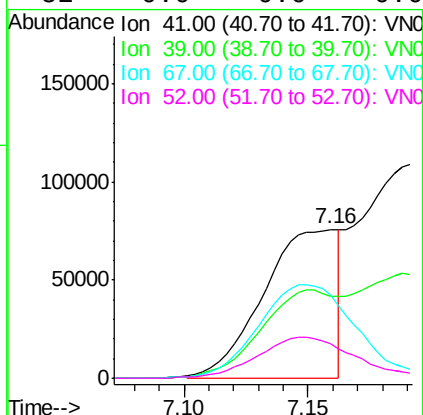
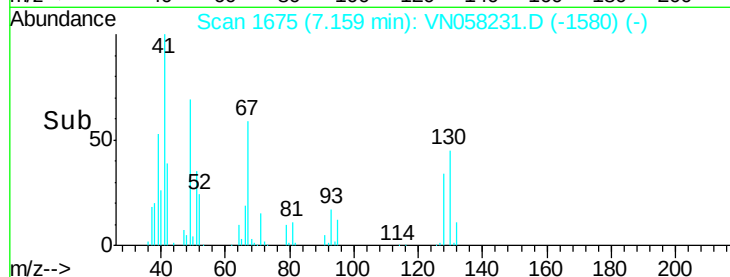
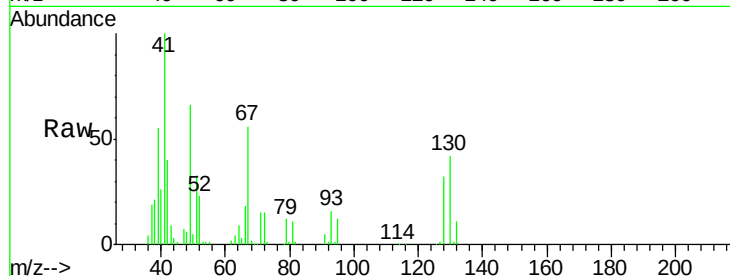
#41
Methacrylonitrile
Concen: 50.068 ug/l m
RT: 7.16 min Scan# 1675
Delta R.T. 0.00 min
Lab File: VN058231.D
Acq: 20 Sep 2019 1:31

Instrument :
MSVOA_N
ClientSampleId :
RE123D1-20190912MSD

Tot Ion	41	Resp:	158560
Ion Ratio	Lower	Upper	
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0

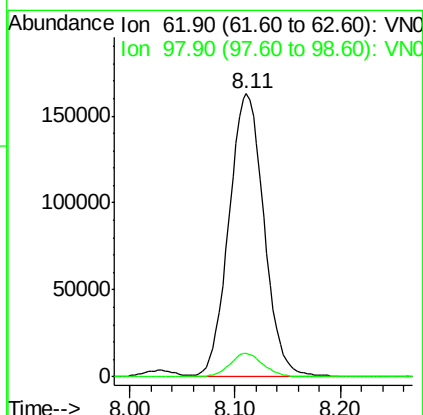
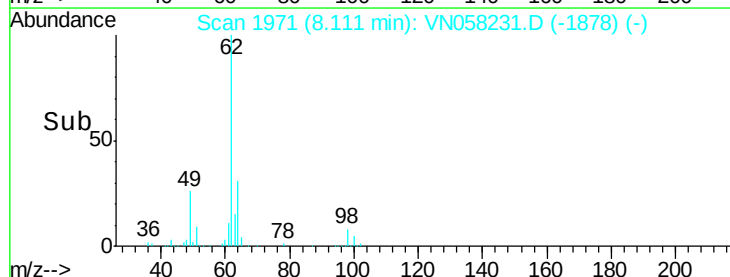
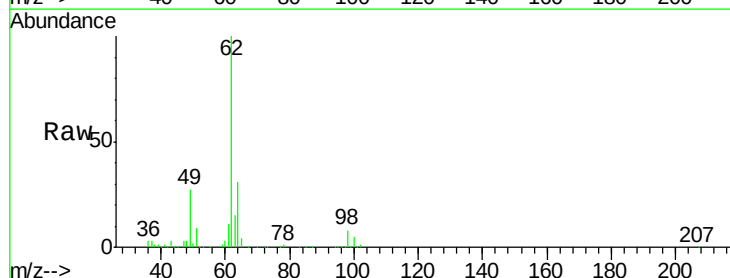
Manual Integrations
APPROVED

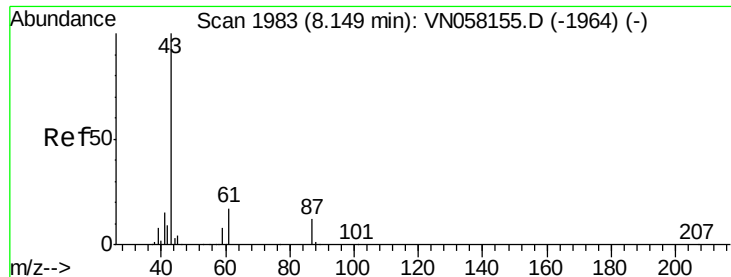
MMDadoda
9/20/2019 3:37:02 PM



#42
1,2-Dichloroethane
Concen: 48.112 ug/l
RT: 8.11 min Scan# 1971
Delta R.T. -0.00 min
Lab File: VN058231.D
Acq: 20 Sep 2019 1:31

Tgt Ion	62	Resp:	373502
Ion Ratio	Lower	Upper	
62	100		
98	8.0	0.0	15.6





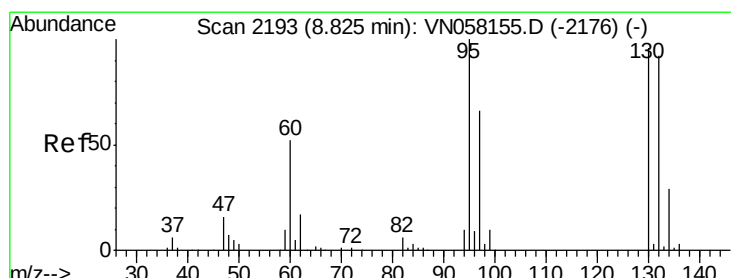
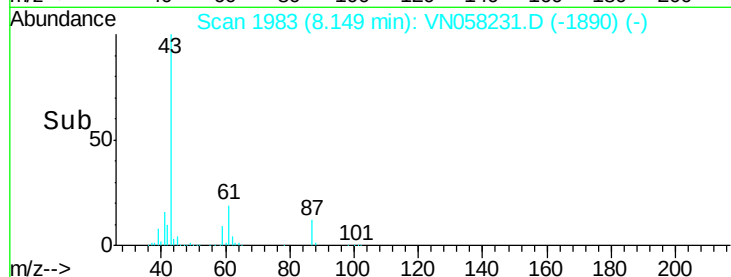
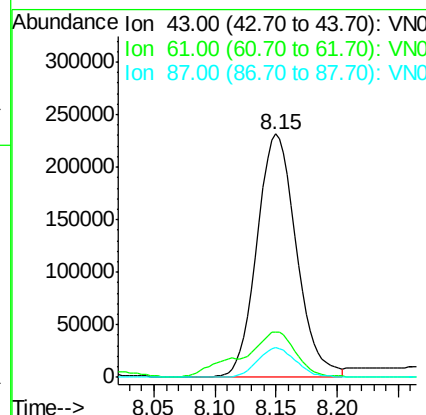
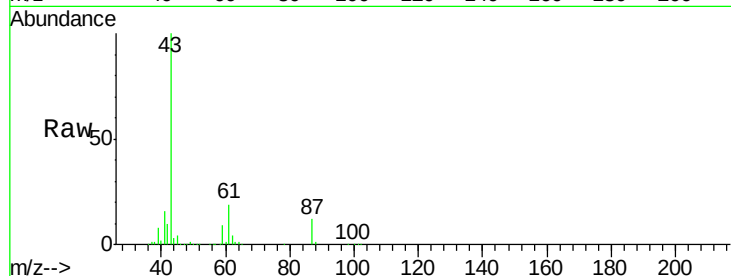
#43
Isopropyl Acetate
Concen: 43.947 ug/l
RT: 8.15 min Scan# 1983
Delta R.T. -0.00 min
Lab File: VN058231.D
Acq: 20 Sep 2019 1:31

Instrument :
MSVOA_N
ClientSampleId :
RE123D1-20190912MSD

Tot Ion	Ratio	Lower	Upper
43	100		
61	25.6	19.7	29.5
87	12.0	9.4	14.2

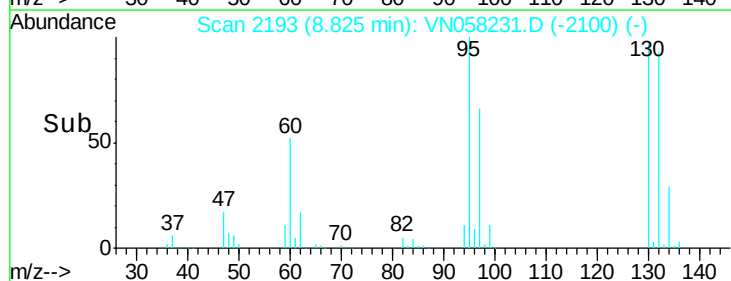
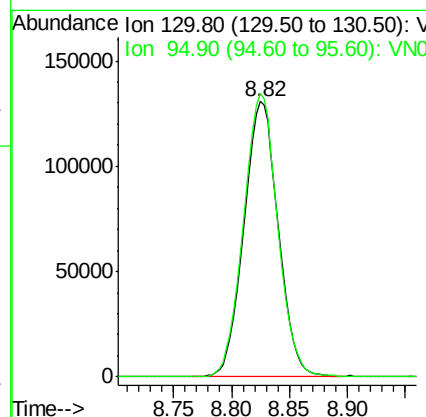
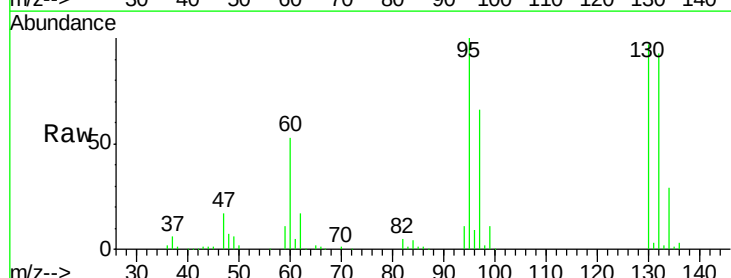
Manual Integrations
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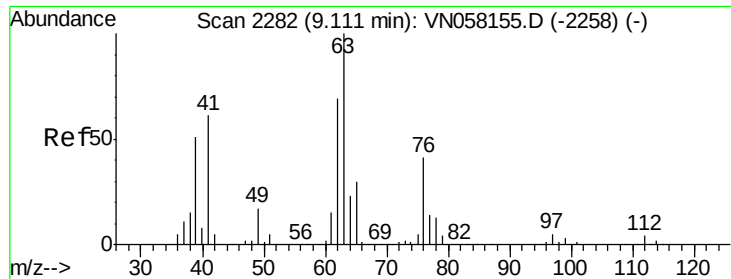
MMDadoda
9/20/2019 3:37:02 PM



#44
Trichloroethene
Concen: 59.353 ug/l
RT: 8.82 min Scan# 2193
Delta R.T. -0.00 min
Lab File: VN058231.D
Acq: 20 Sep 2019 1:31

Tgt Ion	Ratio	Lower	Upper
130	100		
95	102.9	0.0	207.8





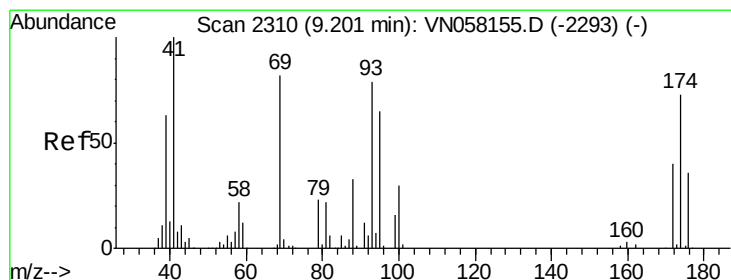
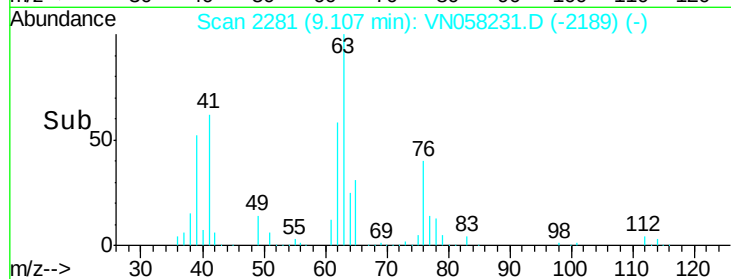
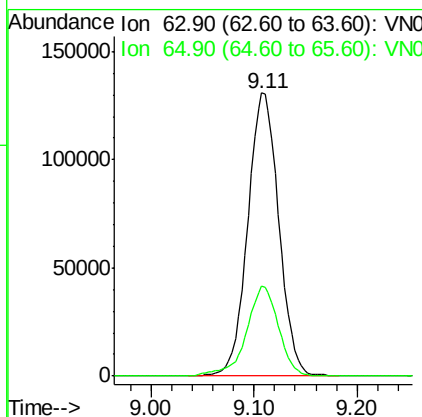
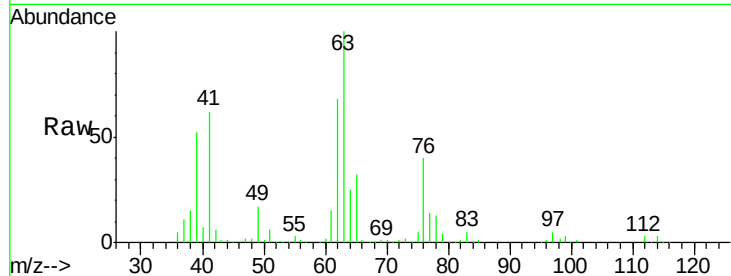
#45
 1,2-Dichloropropane
 Concen: 49.456 ug/l
 RT: 9.11 min Scan# 2281
 Delta R.T. -0.00 min
 Lab File: VN058231.D
 Acq: 20 Sep 2019 1:31

Instrument :
 MSVOA_N
 ClientSampleId :
 RE123D1-20190912MSD

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.6	23.8	35.6

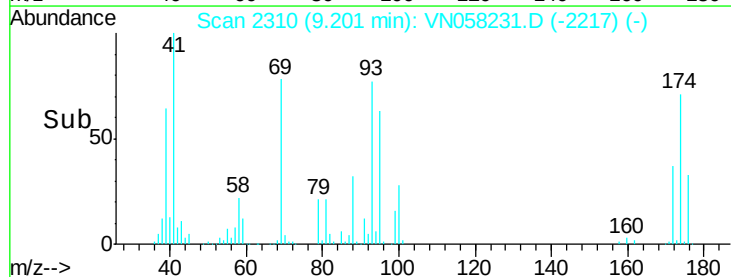
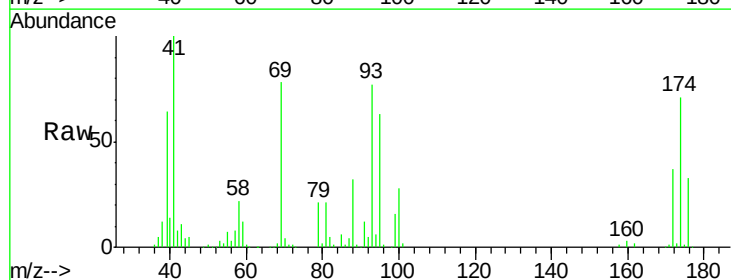
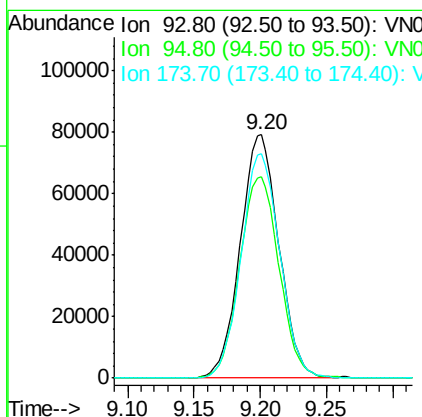
Manual Integrations
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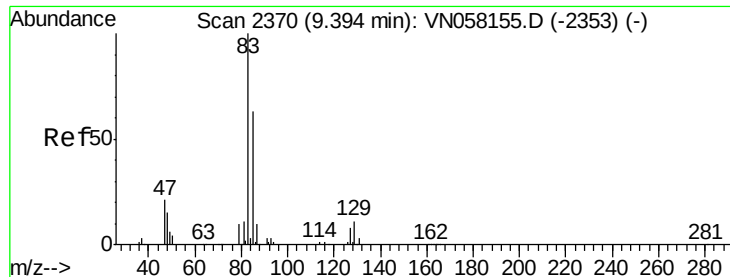
MMDadoda
 9/20/2019 3:37:02 PM



#46
 Dibromomethane
 Concen: 47.768 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. -0.00 min
 Lab File: VN058231.D
 Acq: 20 Sep 2019 1:31

Tgt Ion	Ratio	Lower	Upper
93	100		
95	84.9	66.8	100.2
174	92.4	73.8	110.8





#47

Bromodichloromethane

Concen: 50.778 ug/l

RT: 9.39 min Scan# 2370

Delta R.T. -0.00 min

Lab File: VN058231.D

Acq: 20 Sep 2019 1:31

Instrument :

MSVOA_N

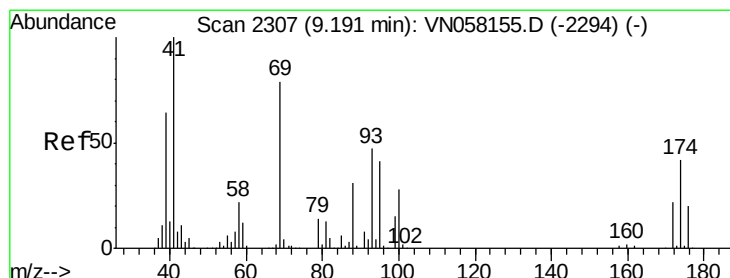
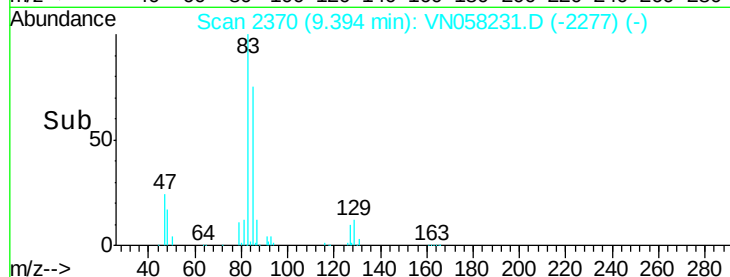
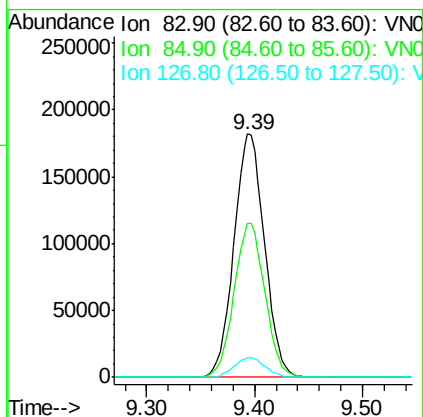
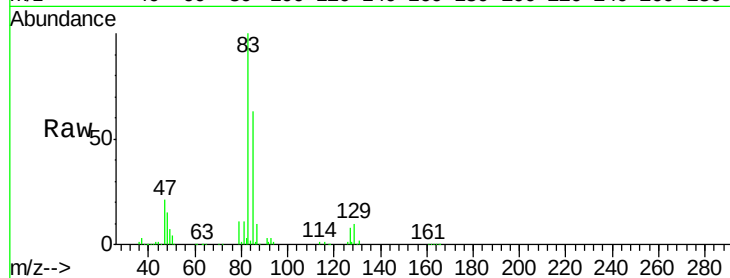
ClientSampleId :

RE123D1-20190912MSD

Tot Ion:	83	Resp:	357343
Ion Ratio	Lower	Upper	
83	100		
85	63.1	50.1	75.1
127	8.0	6.4	9.6

Manual Integrations
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#48

Methyl methacrylate

Concen: 51.269 ug/l

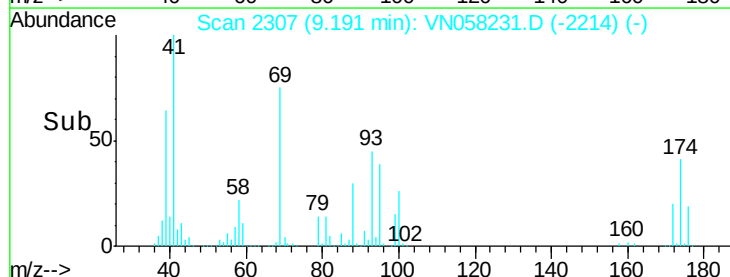
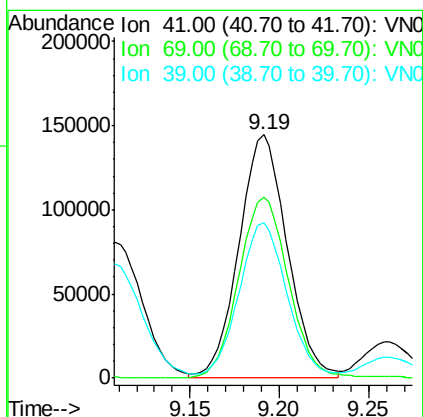
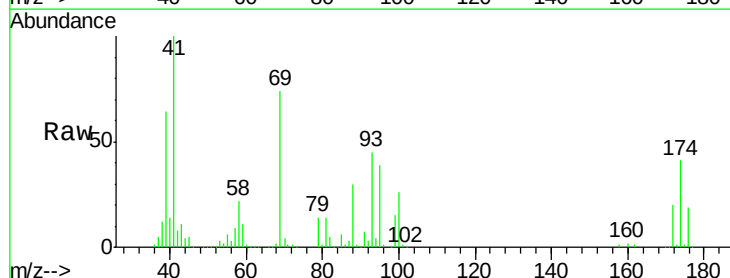
RT: 9.19 min Scan# 2307

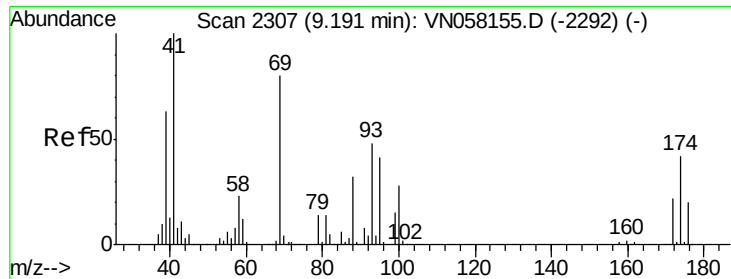
Delta R.T. -0.00 min

Lab File: VN058231.D

Acq: 20 Sep 2019 1:31

Tgt Ion:	41	Resp:	273287
Ion Ratio	Lower	Upper	
41	100		
69	77.0	62.5	93.7
39	63.8	52.3	78.5





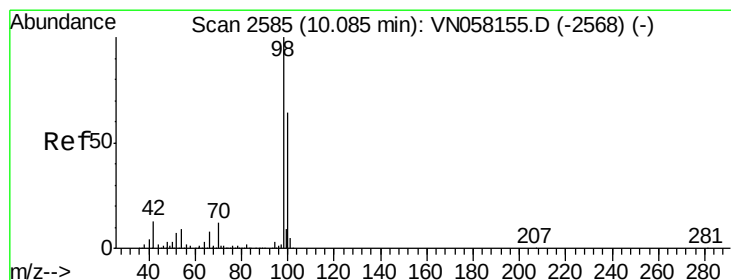
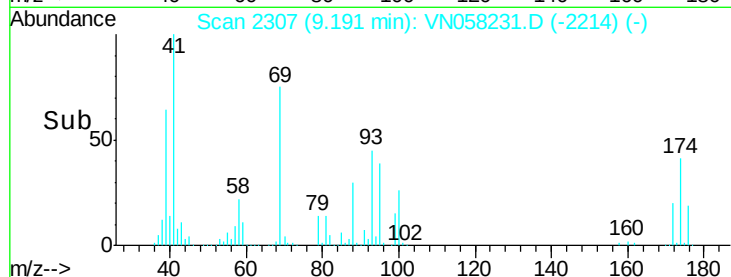
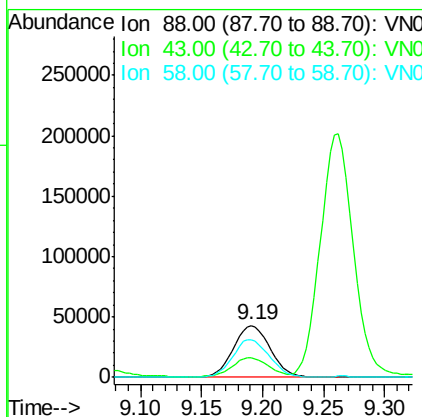
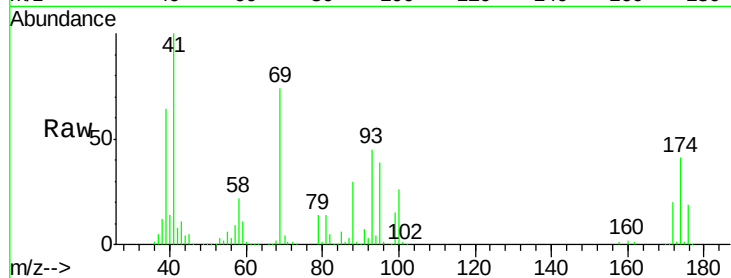
#49
 1,4-Dioxane
 Concen: 1031.357 ug/l
 RT: 9.19 min Scan# 2307
 Delta R.T. -0.00 min
 Lab File: VN058231.D
 Acq: 20 Sep 2019 1:31

Instrument :
 MSVOA_N
 ClientSampleId :
 RE123D1-20190912MSD

Tot Ion	88	Resp	90261
Ion	Ratio	Lower	Upper
88	100		
43	35.2	27.8	41.8
58	72.4	55.0	82.4

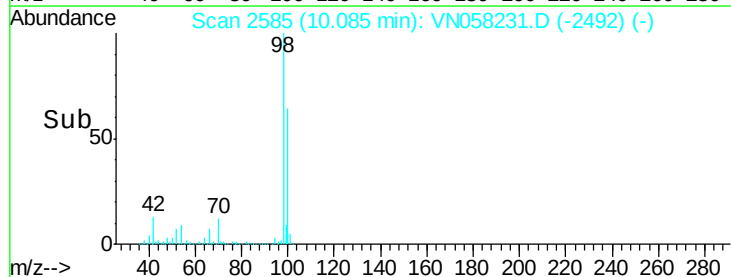
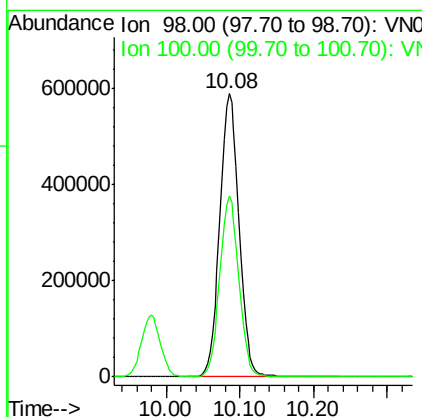
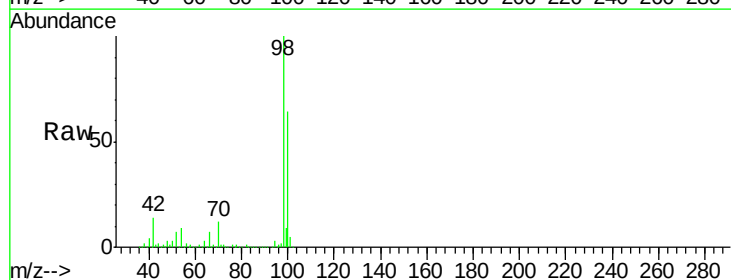
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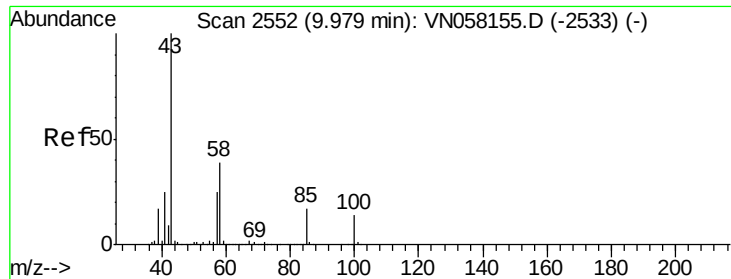
MMDadoda
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#50
 Toluene-d8
 Concen: 53.746 ug/l
 RT: 10.08 min Scan# 2585
 Delta R.T. -0.00 min
 Lab File: VN058231.D
 Acq: 20 Sep 2019 1:31

Tgt Ion	98	Resp	1069266
Ion	Ratio	Lower	Upper
98	100		
100	62.9	51.1	76.7





#51

4-Methyl-2-Pentanone

Concen: 278.166 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. -0.00 min

Lab File: VN058231.D

Acq: 20 Sep 2019 1:31

Instrument :

MSVOA_N

ClientSampleId :

RE123D1-20190912MSD

Tot Ion: 43 Resp: 1734589

Ion Ratio Lower Upper

43 100

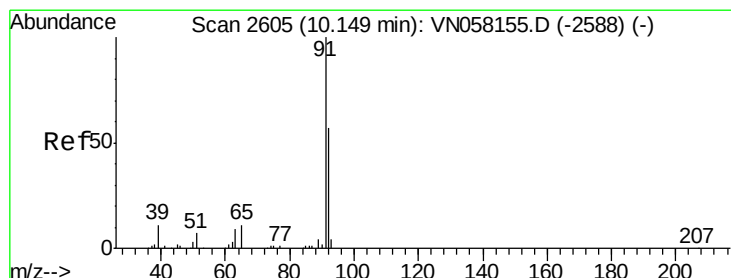
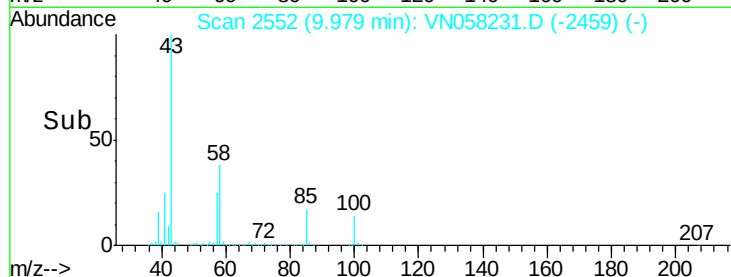
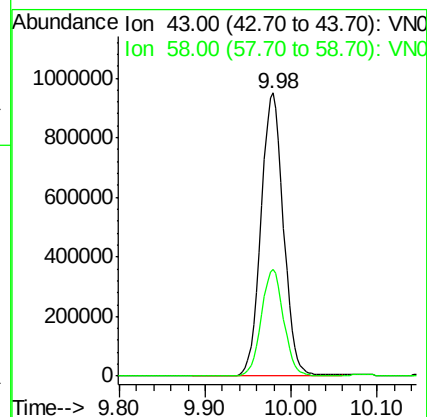
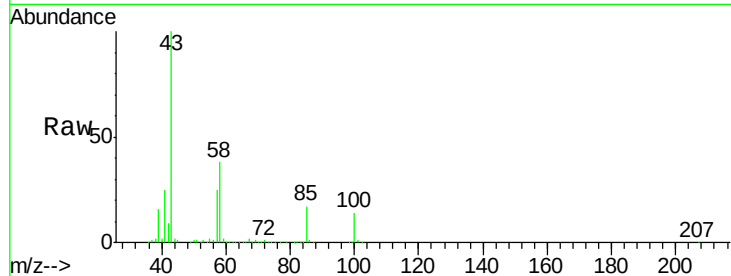
58 37.5 30.2 45.4

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#52

Toluene

Concen: 47.905 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. -0.00 min

Lab File: VN058231.D

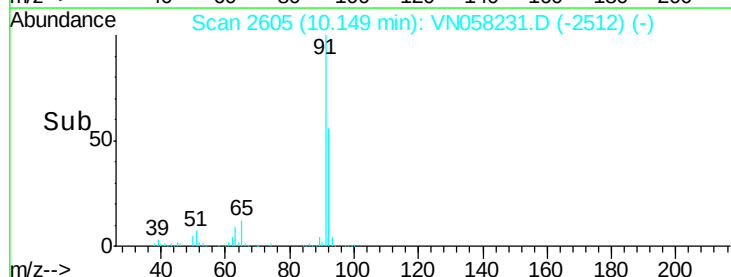
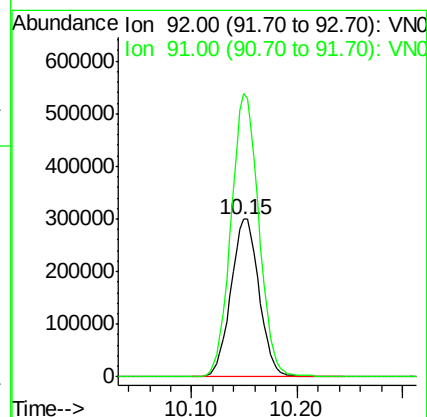
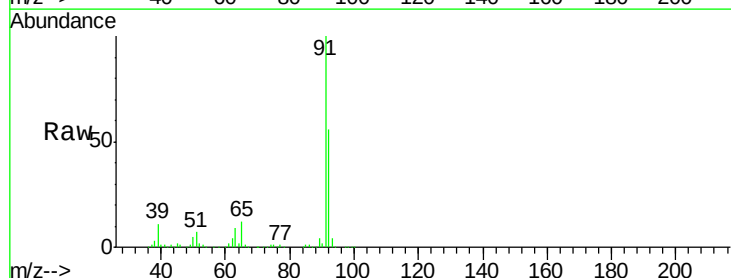
Acq: 20 Sep 2019 1:31

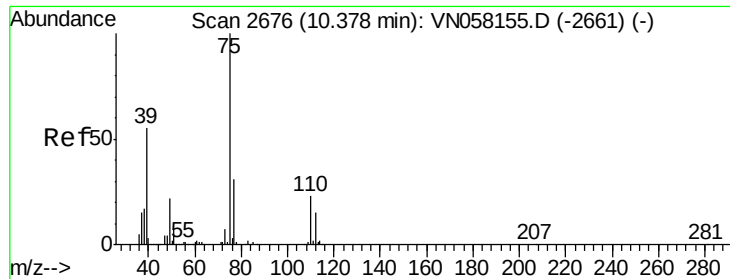
Tgt Ion: 92 Resp: 555449

Ion Ratio Lower Upper

92 100

91 176.7 140.2 210.2





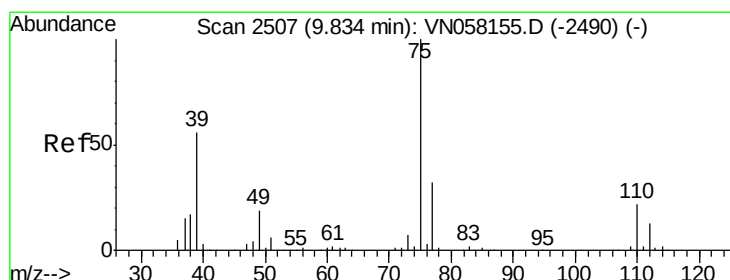
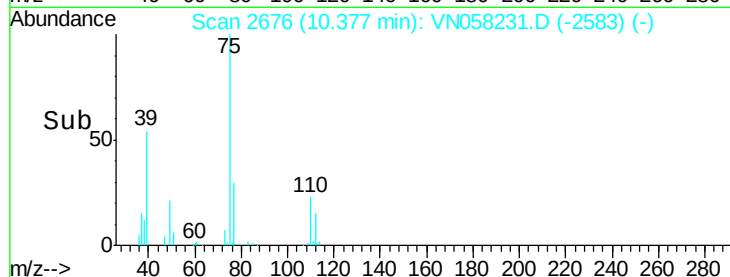
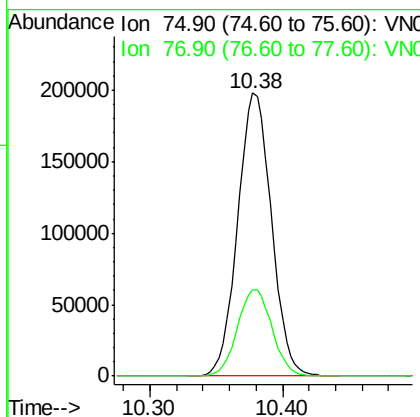
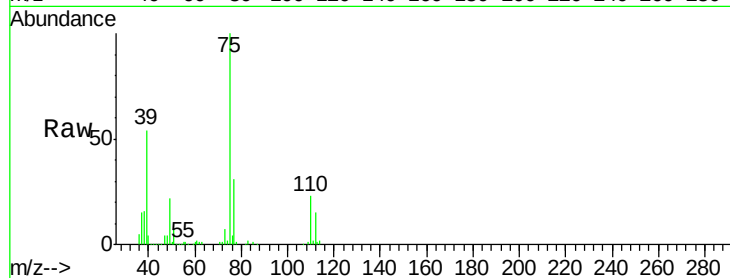
#53
t-1,3-Dichloropropene
Concen: 48.584 ug/l
RT: 10.38 min Scan# 2676
Delta R.T. -0.00 min
Lab File: VN058231.D
Acq: 20 Sep 2019 1:31

Instrument :
MSVOA_N
ClientSampleId :
RE123D1-20190912MSD

Tot Ion	75	Resp	350230
Ion Ratio	Lower	Upper	
75	100		
77	30.6	24.9	37.3

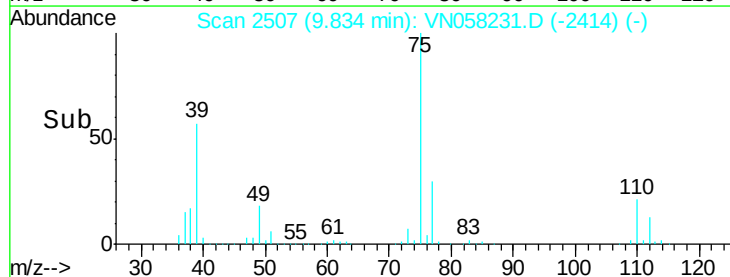
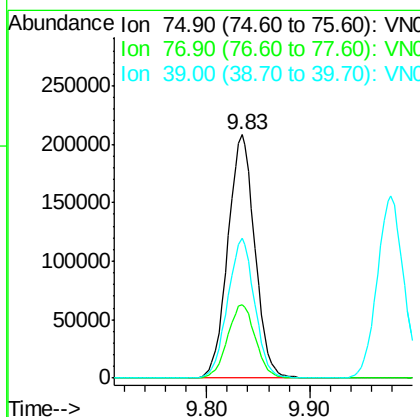
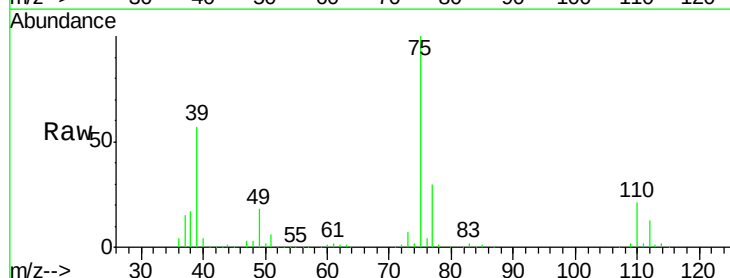
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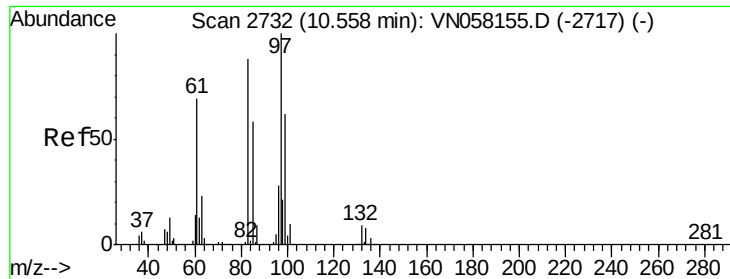
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 47.617 ug/l
RT: 9.83 min Scan# 2507
Delta R.T. -0.00 min
Lab File: VN058231.D
Acq: 20 Sep 2019 1:31

Tgt Ion	75	Resp	378980
Ion Ratio	Lower	Upper	
75	100		
77	30.3	25.4	38.0
39	57.1	45.0	67.6





#55

1,1,2-Trichloroethane

Concen: 49.688 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VN058231.D

Acq: 20 Sep 2019 1:31

Instrument :

MSVOA_N

ClientSampleId :

RE123D1-20190912MSD

Tot Ion: 97 Resp: 255669

Ion Ratio Lower Upper

97 100

83 89.6 70.4 105.6

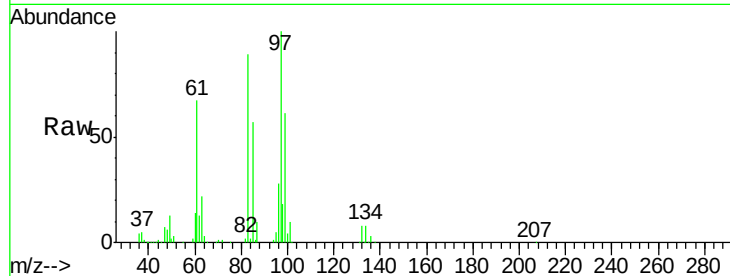
85 56.7 46.8 70.2

99 61.2 49.9 74.9

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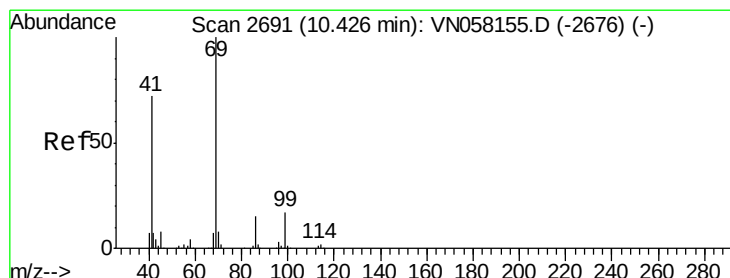
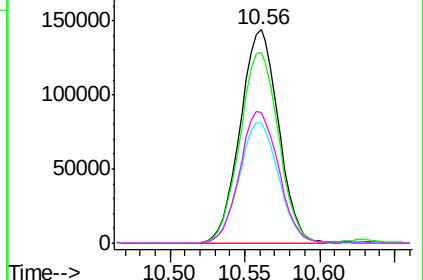
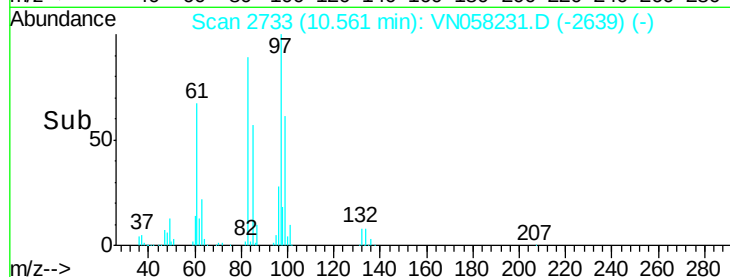


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0



#56

Ethyl methacrylate

Concen: 52.016 ug/l

RT: 10.43 min Scan# 2691

Delta R.T. -0.00 min

Lab File: VN058231.D

Acq: 20 Sep 2019 1:31

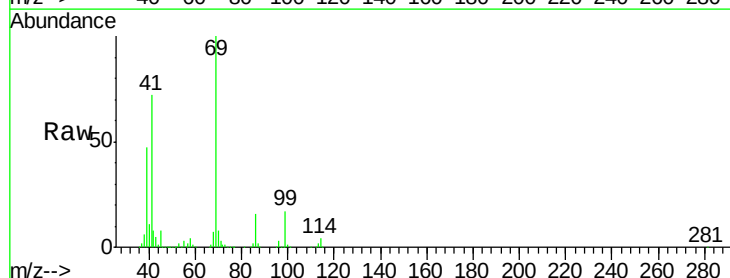
Tgt Ion: 69 Resp: 386168

Ion Ratio Lower Upper

69 100

41 71.8 57.5 86.3

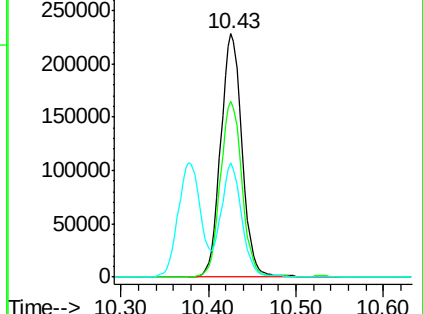
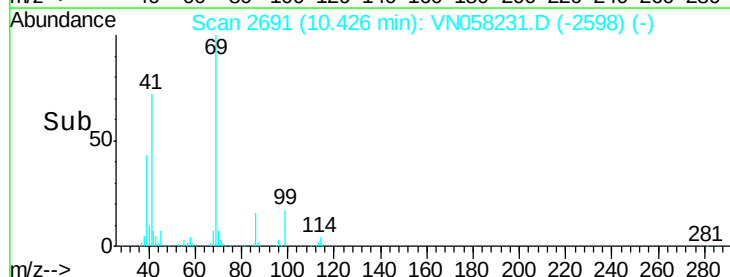
39 45.0 36.1 54.1

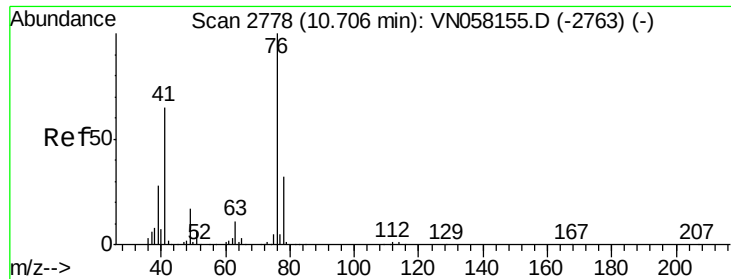


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





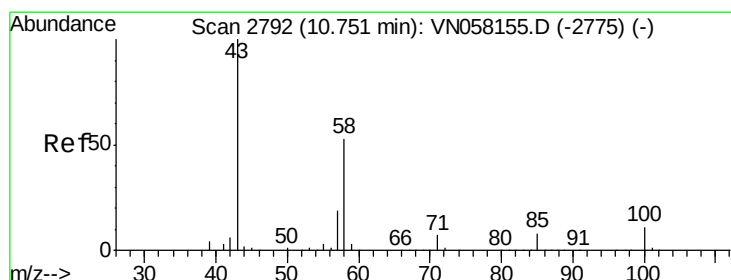
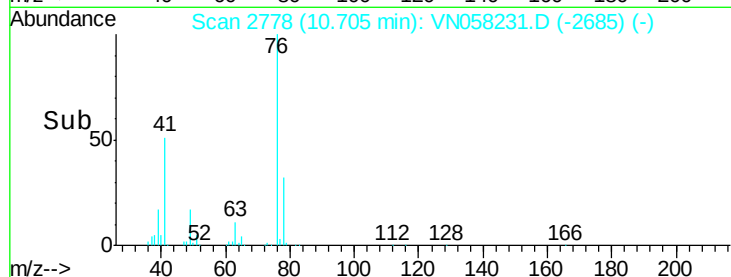
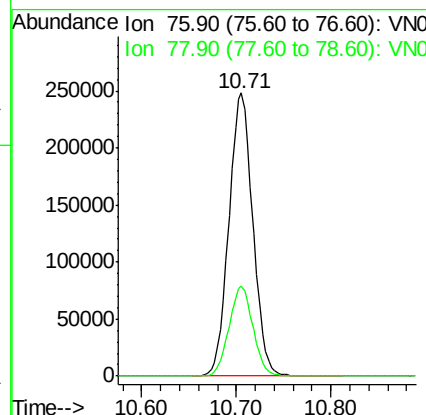
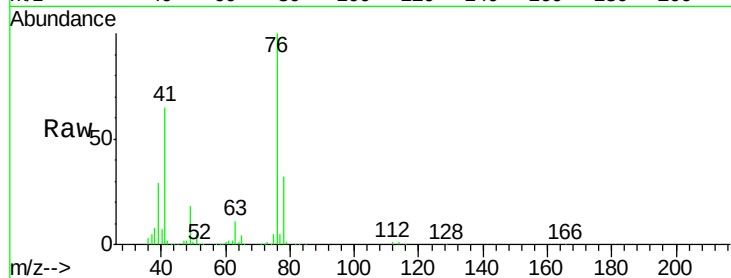
#57
 1,3-Dichloropropane
 Concen: 49.165 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. -0.00 min
 Lab File: VN058231.D
 Acq: 20 Sep 2019 1:31

Instrument :
 MSVOA_N
 ClientSampleId :
 RE123D1-20190912MSD

Tot Ion: 76 Resp: 434904
 Ion Ratio Lower Upper
 76 100
 78 32.1 25.4 38.0

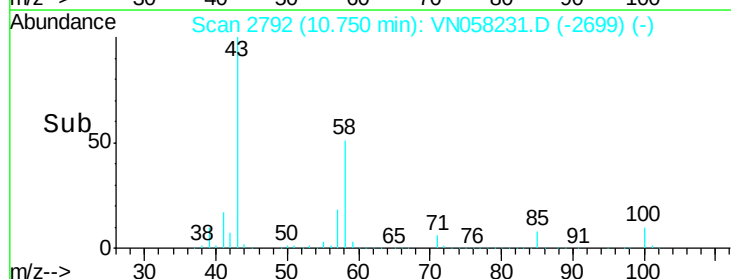
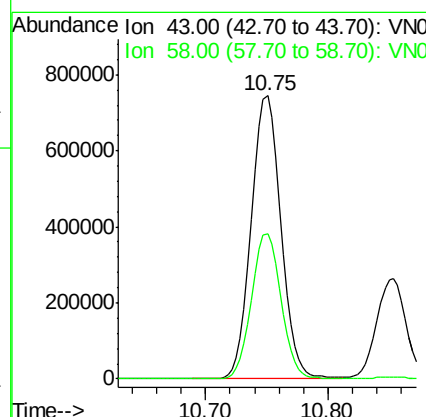
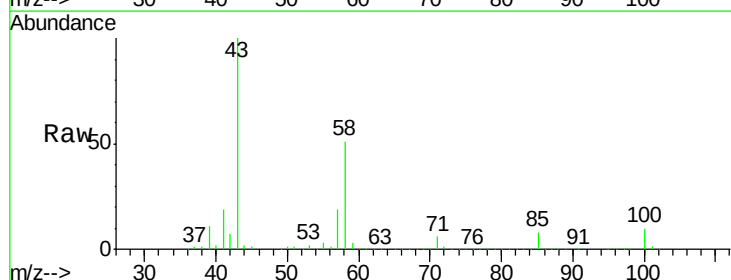
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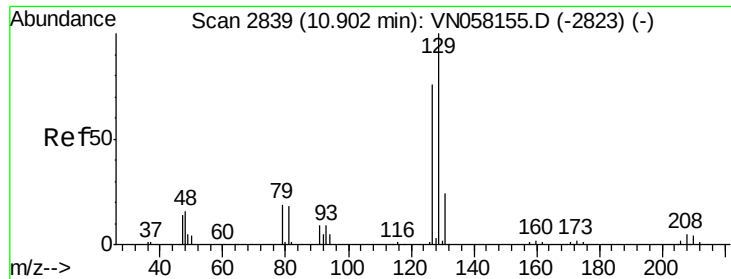
MMDadoda
 9/20/2019 3:37:02 PM



#59
 2-Hexanone
 Concen: 268.738 ug/l
 RT: 10.75 min Scan# 2792
 Delta R.T. -0.00 min
 Lab File: VN058231.D
 Acq: 20 Sep 2019 1:31

Tgt Ion: 43 Resp: 1244602
 Ion Ratio Lower Upper
 43 100
 58 51.3 26.0 78.0





#60

Dibromochloromethane

Concen: 51.435 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. -0.00 min

Lab File: VN058231.D

Acq: 20 Sep 2019 1:31

Instrument :

MSVOA_N

ClientSampleId :

RE123D1-20190912MSD

Tot Ion:129 Resp: 254615

Ion Ratio Lower Upper

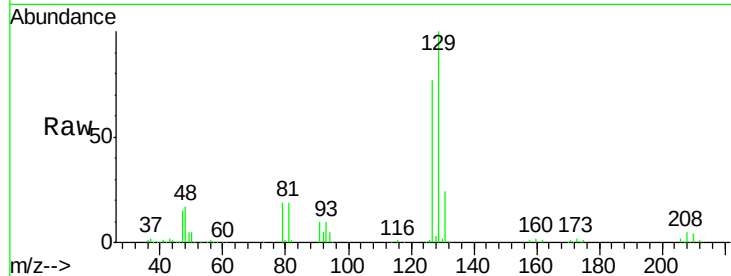
129 100

127 78.2 38.7 116.1

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Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.90

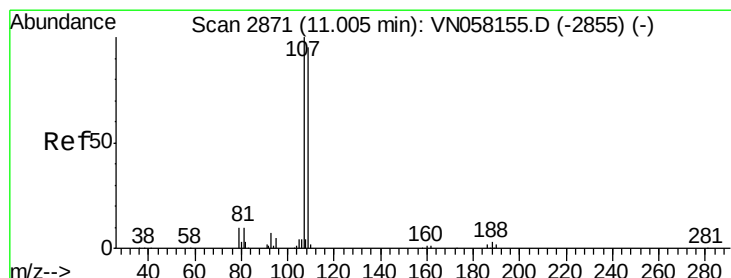
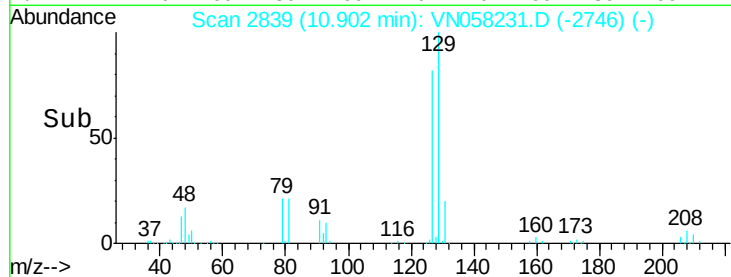
150000

100000

50000

0

Time--> 10.80 10.90 11.00



#61

1,2-Dibromoethane

Concen: 49.759 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. -0.00 min

Lab File: VN058231.D

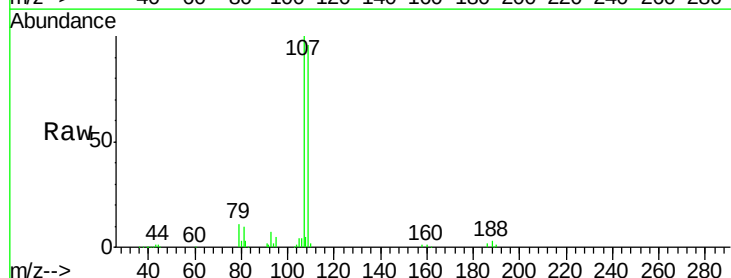
Acq: 20 Sep 2019 1:31

Tgt Ion:107 Resp: 237279

Ion Ratio Lower Upper

107 100

109 94.5 75.4 113.2



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.00

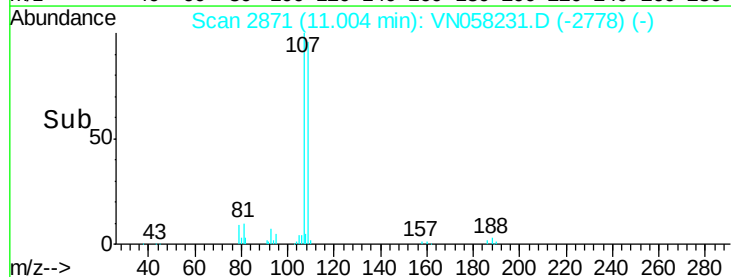
150000

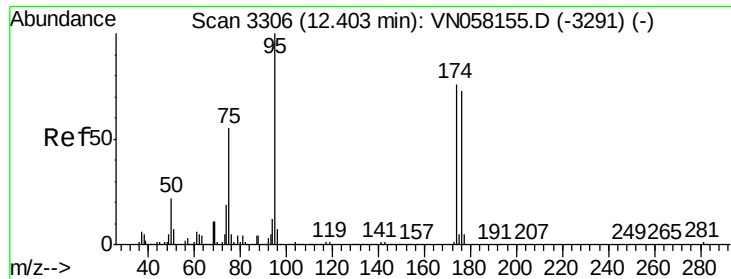
100000

50000

0

Time--> 10.90 11.00 11.10





#62

4-Bromofluorobenzene

Concen: 52.974 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.00 min

Lab File: VN058231.D

Acq: 20 Sep 2019 1:31

Instrument :

MSVOA_N

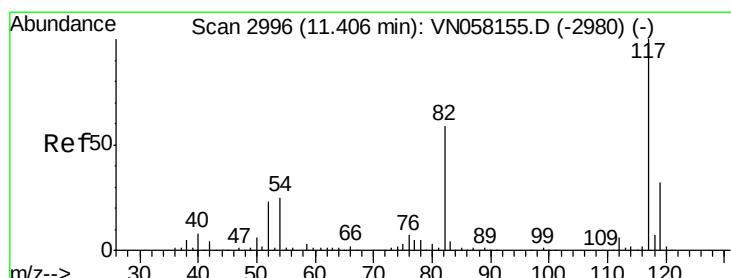
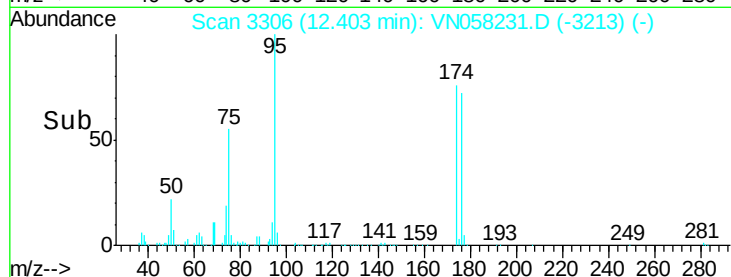
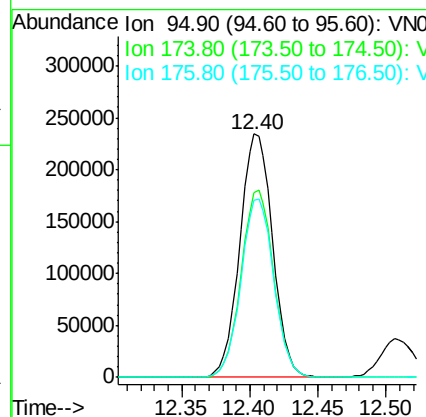
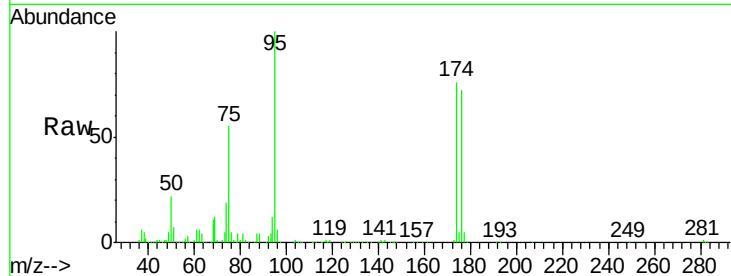
ClientSampleId :

RE123D1-20190912MSD

Tot Ion:	95	Resp:	391492
Ion Ratio	Lower	Upper	
95	100		
174	76.3	0.0	152.2
176	73.3	0.0	148.0

Manual Integrations
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#63

Chlorobenzene-d5

Concen: 50.000 ug/l

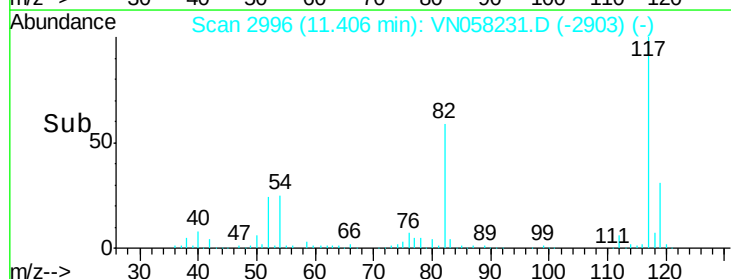
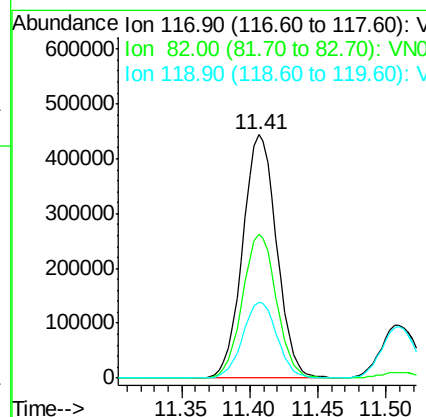
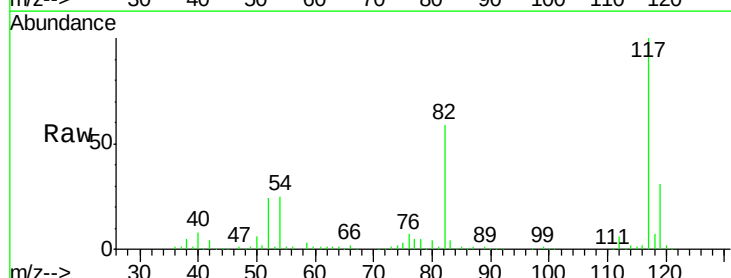
RT: 11.41 min Scan# 2996

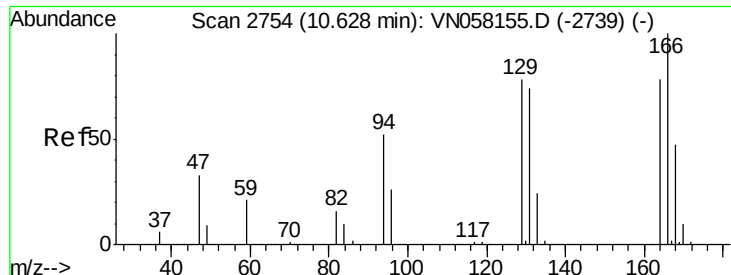
Delta R.T. -0.00 min

Lab File: VN058231.D

Acq: 20 Sep 2019 1:31

Tgt Ion:	117	Resp:	768165
Ion Ratio	Lower	Upper	
117	100		
82	59.2	46.9	70.3
119	31.4	25.3	37.9





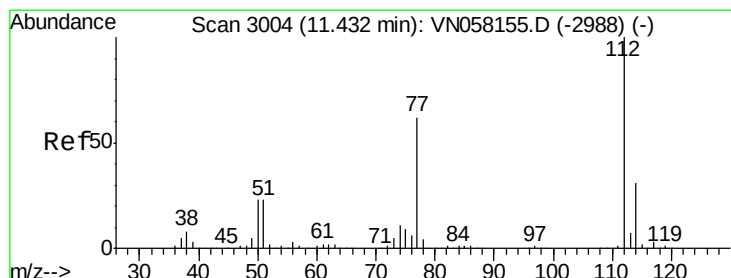
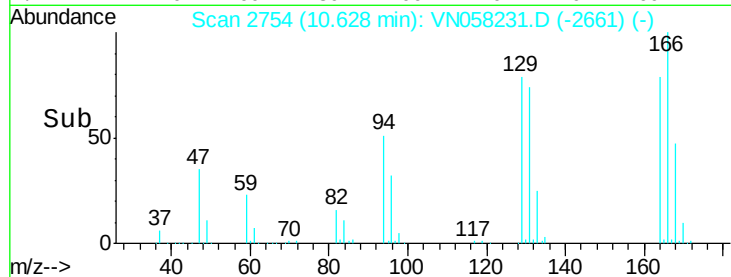
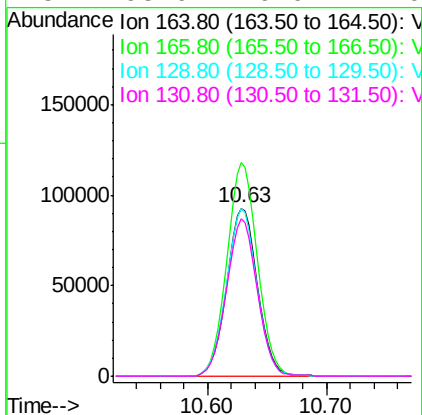
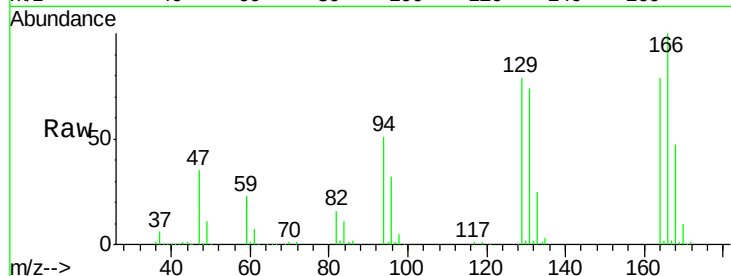
#64
Tetrachloroethene
Concen: 44.194 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN058231.D
Acq: 20 Sep 2019 1:31

Instrument :
MSVOA_N
ClientSampleId :
RE123D1-20190912MSD

Tot Ion	Ratio	Lower	Upper
164	100		
166	127.1	102.2	153.4
129	99.9	79.6	119.4
131	93.6	76.0	114.0

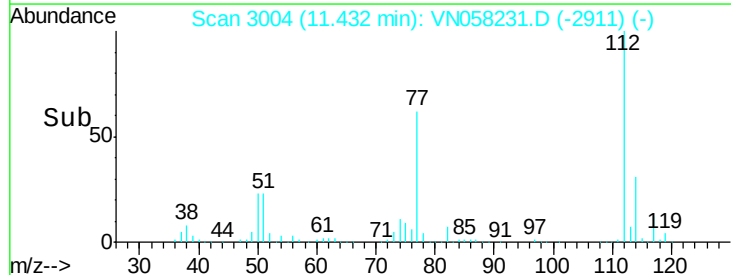
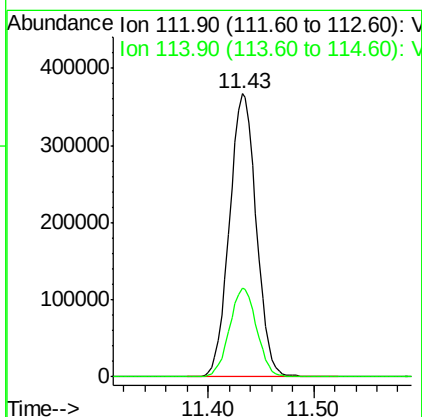
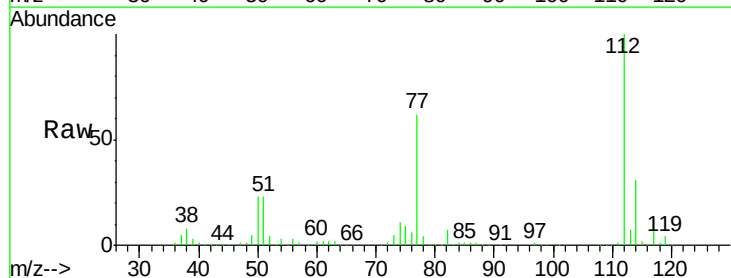
Manual Integrations
APPROVED

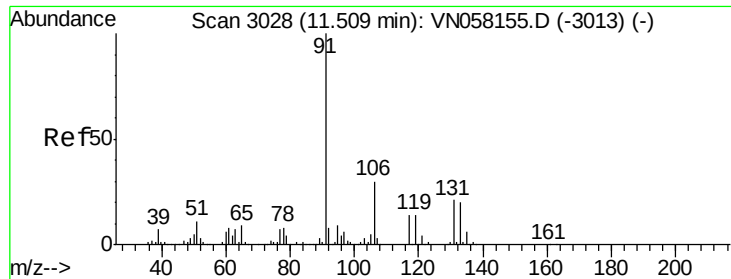
MMDadoda
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#65
Chlorobenzene
Concen: 47.803 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN058231.D
Acq: 20 Sep 2019 1:31

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.3	25.1	37.7





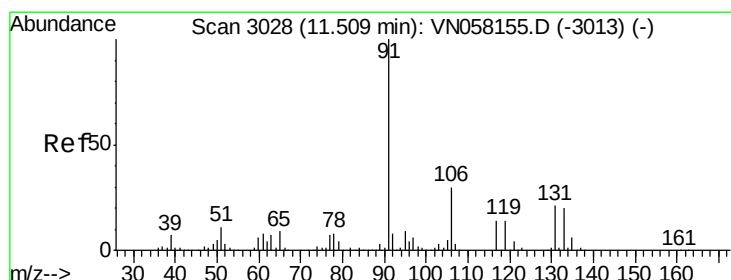
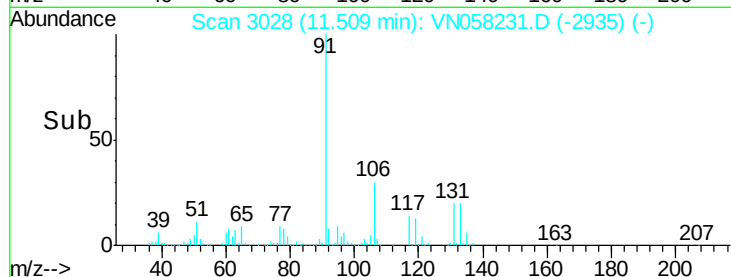
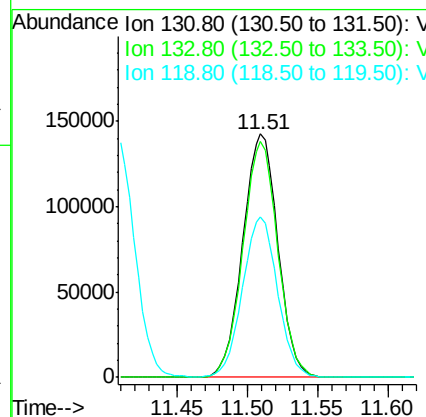
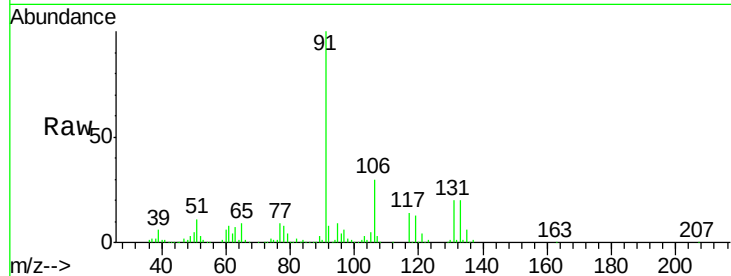
#66
 1,1,1,2-Tetrachloroethane
 Concen: 50.819 ug/l
 RT: 11.51 min Scan# 3028
 Delta R.T. -0.00 min
 Lab File: VN058231.D
 Acq: 20 Sep 2019 1:31

Instrument :
 MSVOA_N
 ClientSampleId :
 RE123D1-20190912MSD

Tot Ion	Ratio	Resp	Lower	Upper
131	100	248975		
133	96.1	47.8	143.3	
119	65.7	33.1	99.3	

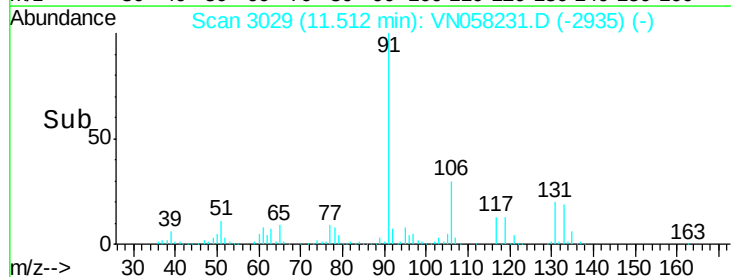
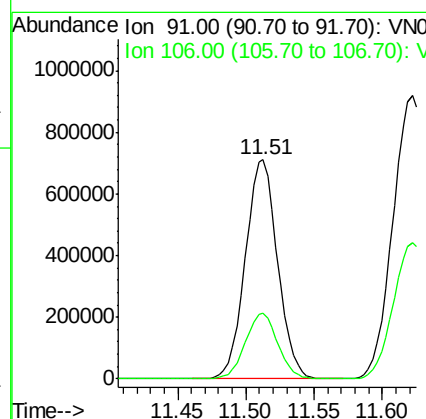
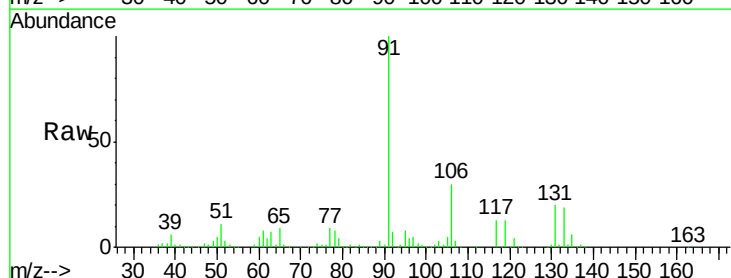
Manual Integrations
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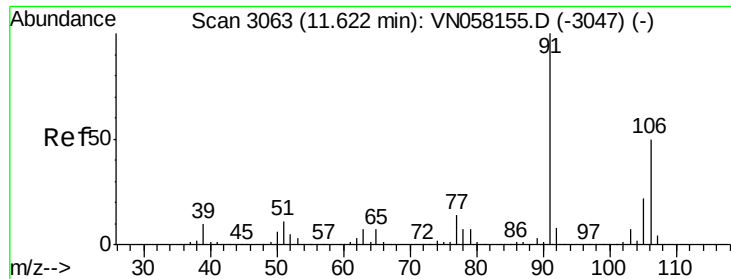
MMDadoda
 9/20/2019 3:37:02 PM



#67
 Ethyl Benzene
 Concen: 50.302 ug/l
 RT: 11.51 min Scan# 3029
 Delta R.T. 0.00 min
 Lab File: VN058231.D
 Acq: 20 Sep 2019 1:31

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	1164567		
106	30.0	24.0	36.0	





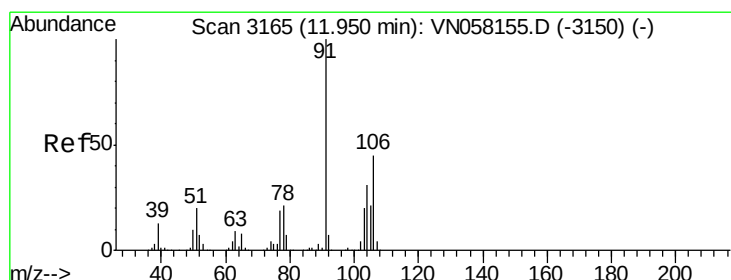
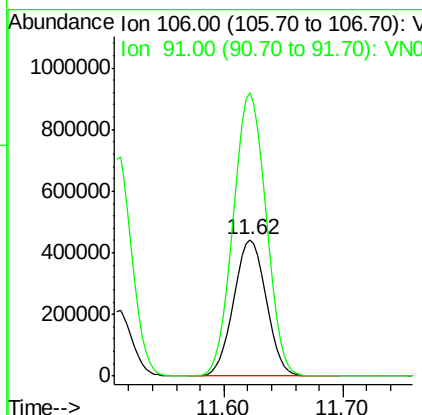
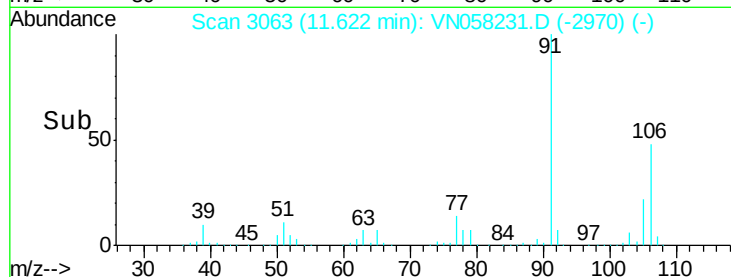
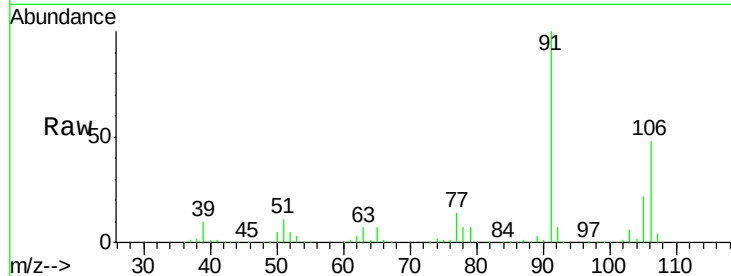
#68
m/p-Xylenes
Concen: 96.251 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. -0.00 min
Lab File: VN058231.D
Acq: 20 Sep 2019 1:31

Instrument :
MSVOA_N
ClientSampleId :
RE123D1-20190912MSD

Tot Ion:106 Resp: 839280
Ion Ratio Lower Upper
106 100
91 210.1 163.6 245.4

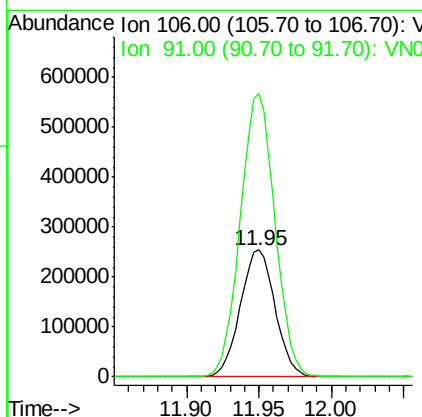
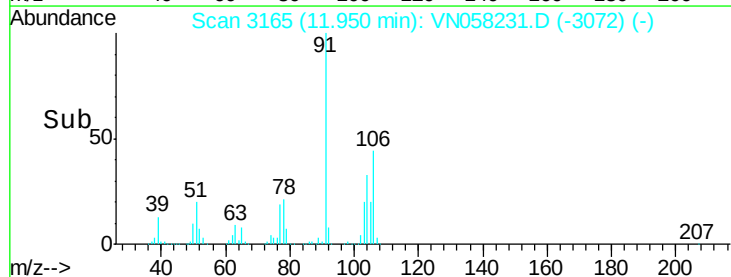
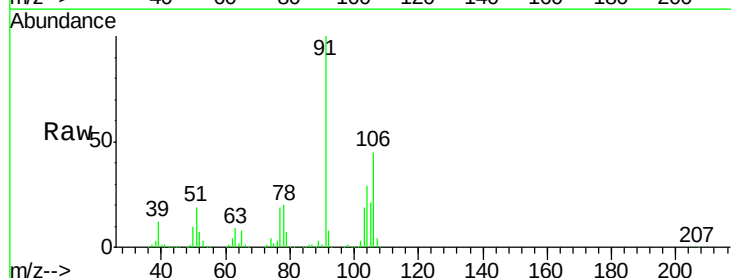
Manual Integrations
APPROVED

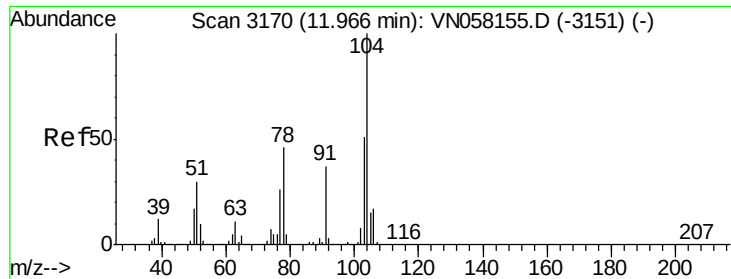
MMDadoda
9/20/2019 3:37:02 PM



#69
o-Xylene
Concen: 49.663 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. -0.00 min
Lab File: VN058231.D
Acq: 20 Sep 2019 1:31

Tgt Ion:106 Resp: 425807
Ion Ratio Lower Upper
106 100
91 221.6 111.8 335.3





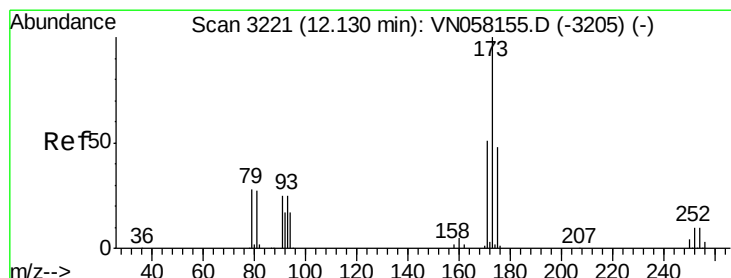
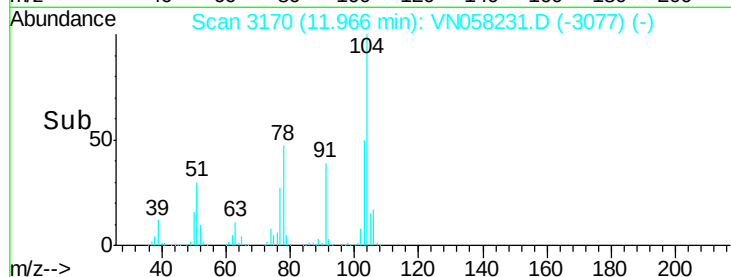
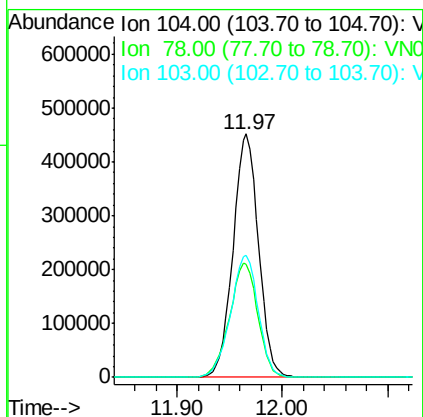
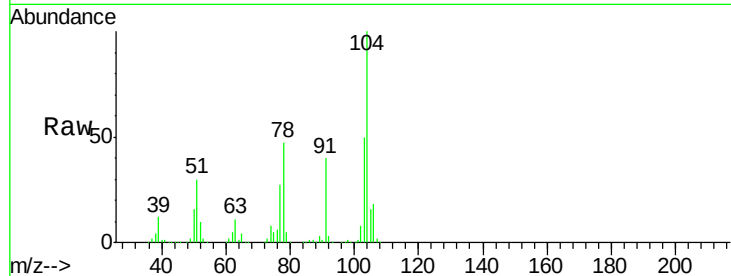
#70
Stvrene
Concen: 51.124 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. -0.00 min
Lab File: VN058231.D
Acq: 20 Sep 2019 1:31

Instrument :
MSVOA_N
ClientSampleId :
RE123D1-20190912MSD

Tot Ion	Ratio	Resp	Lower	Upper
104	100	755243		
78	52.2		41.8	62.8
103	54.6		44.2	66.2

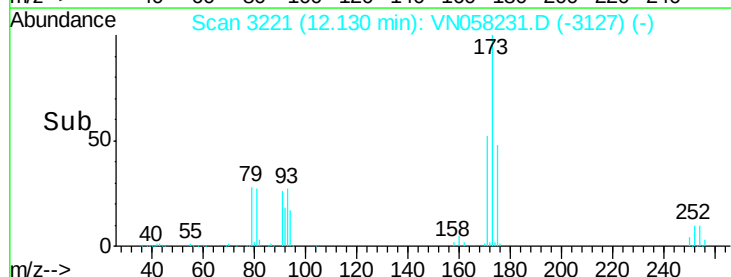
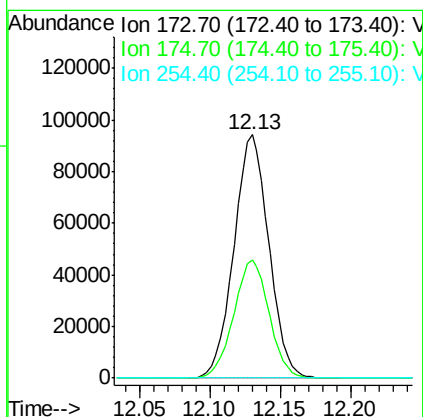
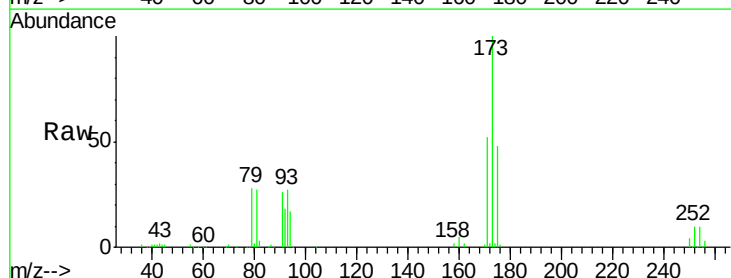
Manual Integrations
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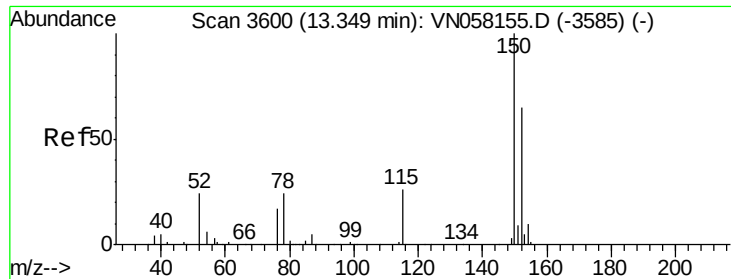
MMDadoda
9/20/2019 3:37:02 PM



#71
Bromoform
Concen: 45.354 ug/l
RT: 12.13 min Scan# 3221
Delta R.T. 0.00 min
Lab File: VN058231.D
Acq: 20 Sep 2019 1:31

Tgt Ion	Ratio	Resp	Lower	Upper
173	100	163433		
175	49.0		24.2	72.6
254	0.1		0.1	0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN058231.D

Acq: 20 Sep 2019 1:31

Instrument :

MSVOA_N

ClientSampleId :

RE123D1-20190912MSD

Tot Ion:152 Resp: 371072

Ion Ratio Lower Upper

152 100

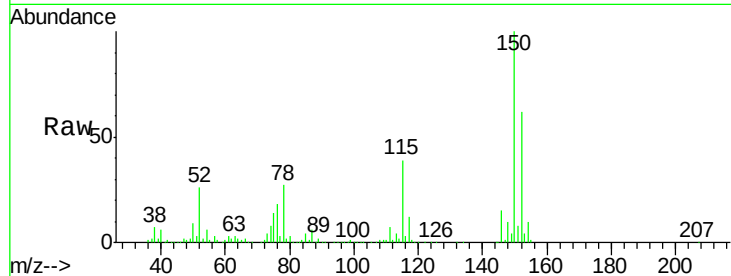
115 61.6 30.1 90.3

150 172.7 0.0 346.4

Manual Integrations
APPROVED

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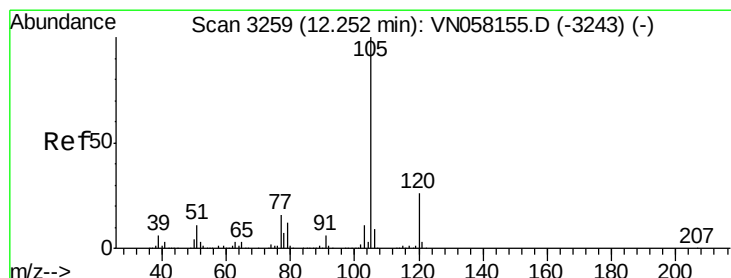
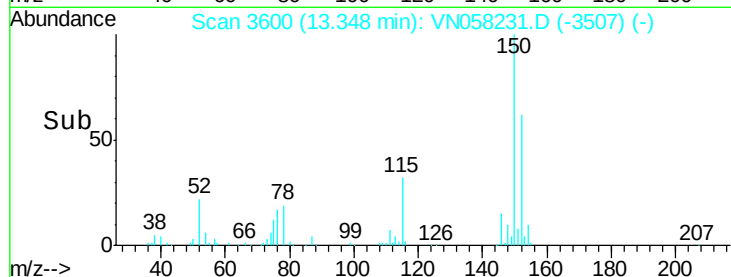
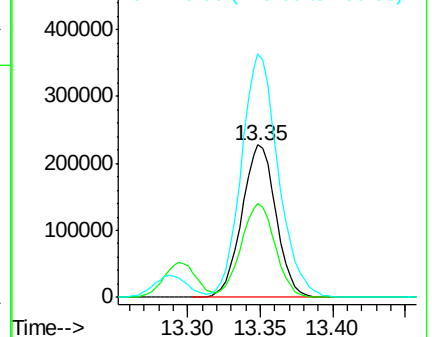
9/20/2019 3:37:02 PM



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 52.010 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. -0.00 min

Lab File: VN058231.D

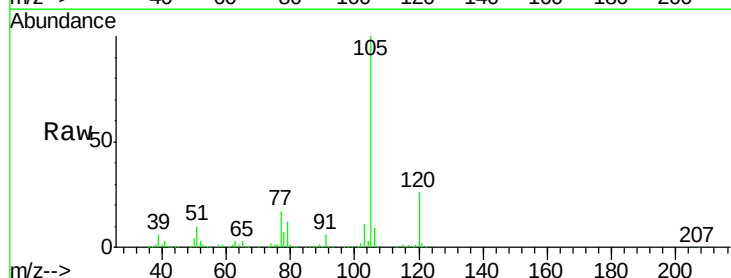
Acq: 20 Sep 2019 1:31

Tgt Ion:105 Resp: 1208028

Ion Ratio Lower Upper

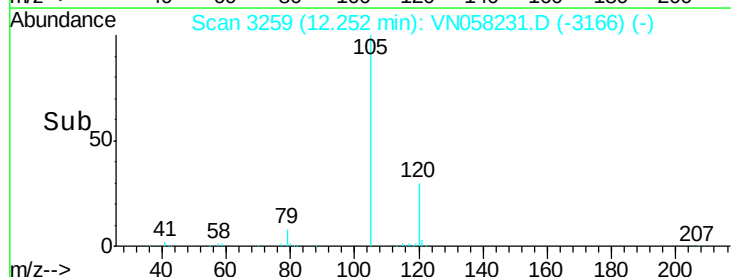
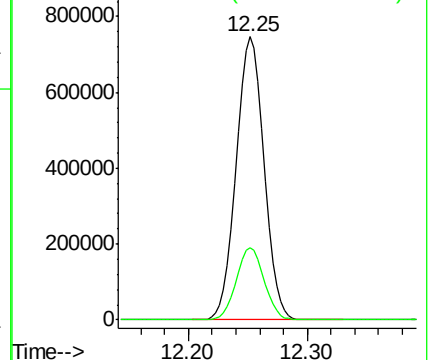
105 100

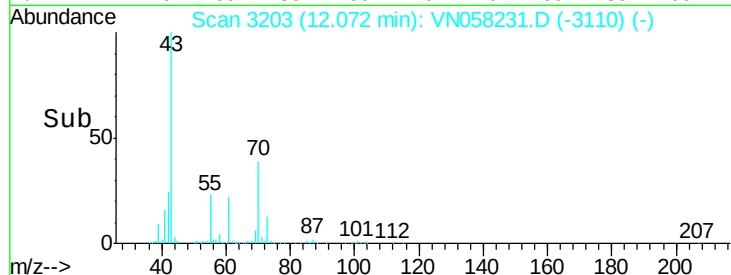
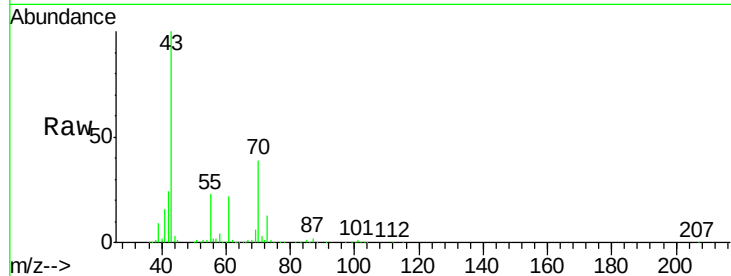
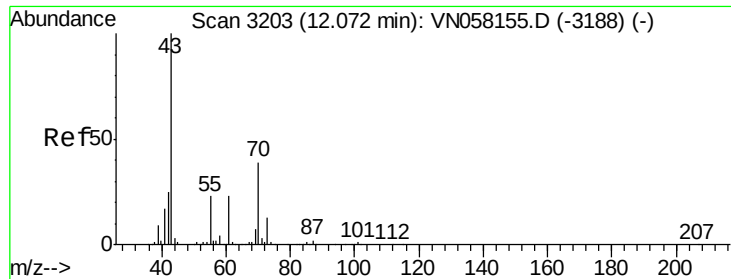
120 25.4 12.8 38.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





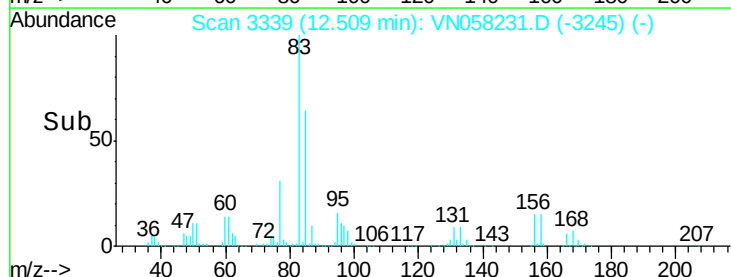
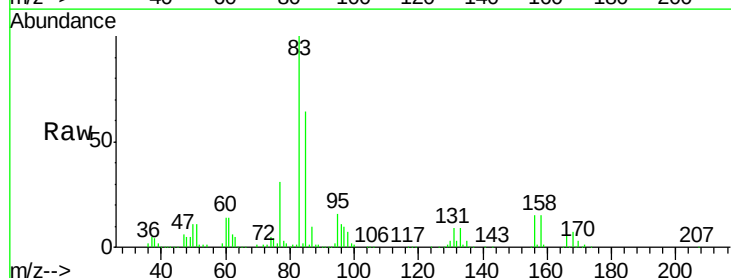
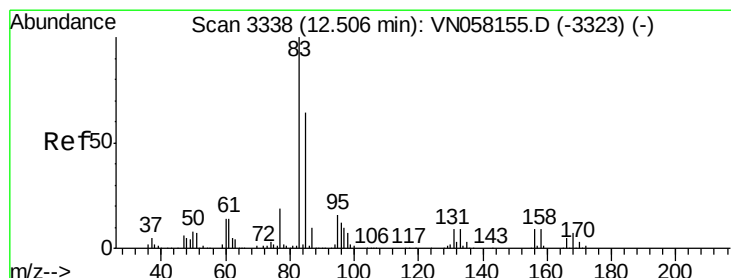
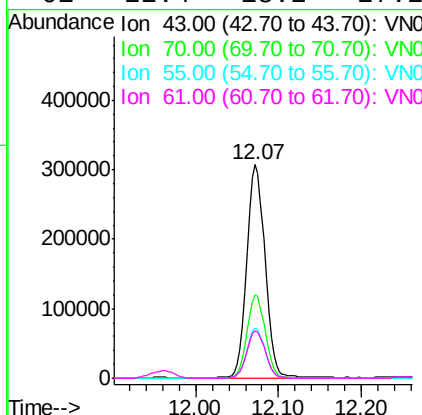
#74
N-amvl acetate
Concen: 48.508 ug/l
RT: 12.07 min Scan# 3203
Delta R.T. -0.00 min
Lab File: VN058231.D
Acq: 20 Sep 2019 1:31

Tot Ion	43	Resp	471333
Ion Ratio	Lower	Upper	
43	100		
70	39.0	31.0	46.6
55	23.5	18.5	27.7
61	22.4	18.2	27.2

Instrument :
MSVOA_N
ClientSampleId :
RE123D1-20190912MSD

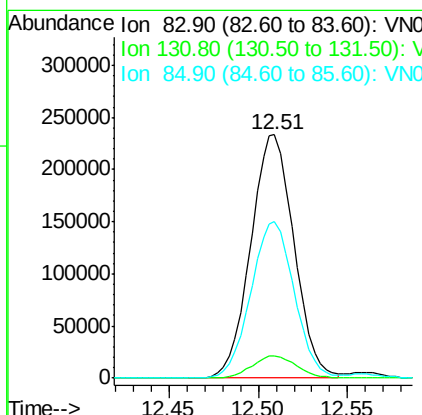
Manual Integrations
APPROVED

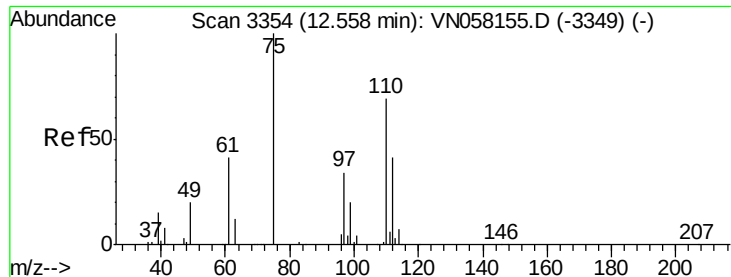
MMDadoda
9/20/2019 3:37:02 PM



#75
1,1,2,2-Tetrachloroethane
Concen: 50.895 ug/l
RT: 12.51 min Scan# 3339
Delta R.T. 0.00 min
Lab File: VN058231.D
Acq: 20 Sep 2019 1:31

Tgt Ion	83	Resp	395863
Ion Ratio	Lower	Upper	
83	100		
131	9.5	4.8	14.3
85	64.4	31.9	95.5





#76

1,2,3-Trichloropropane

Concen: 50.713 ug/l m

RT: 12.56 min Scan# 3354

Delta R.T. -0.00 min

Lab File: VN058231.D

Acq: 20 Sep 2019 1:31

Instrument :

MSVOA_N

ClientSampleId :

RE123D1-20190912MSD

Tot Ion: 75 Resp: 336787

Ion Ratio Lower Upper

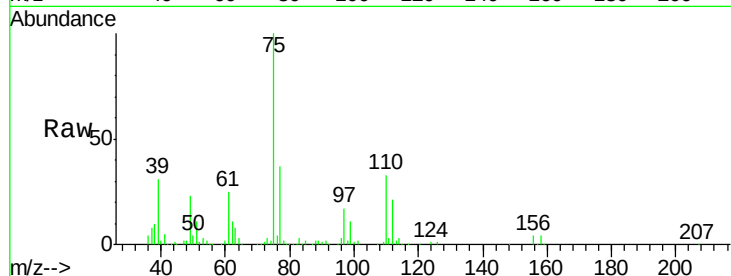
75 100

77 0.0 0.0 0.0

Manual Integrations
APPROVED

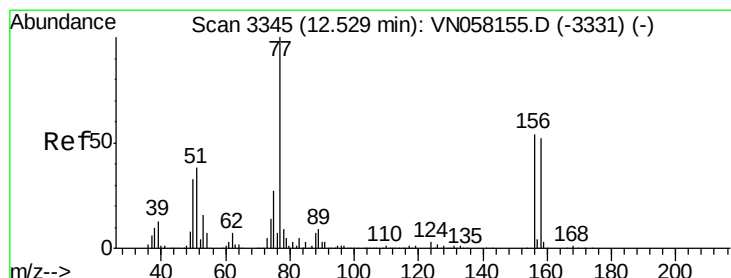
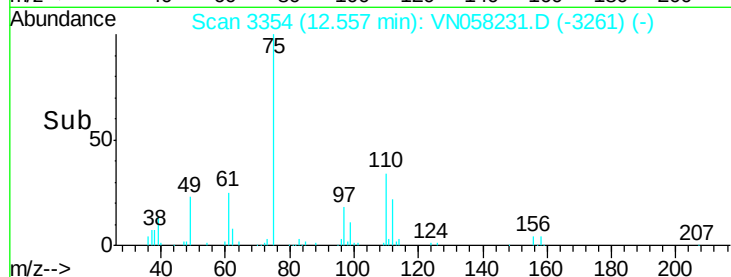
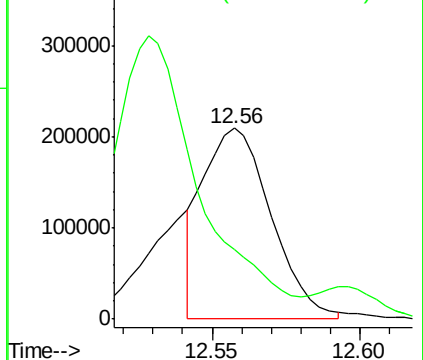
MMDadoda

9/20/2019 3:37:02 PM



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#77

Bromobenzene

Concen: 48.588 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. -0.00 min

Lab File: VN058231.D

Acq: 20 Sep 2019 1:31

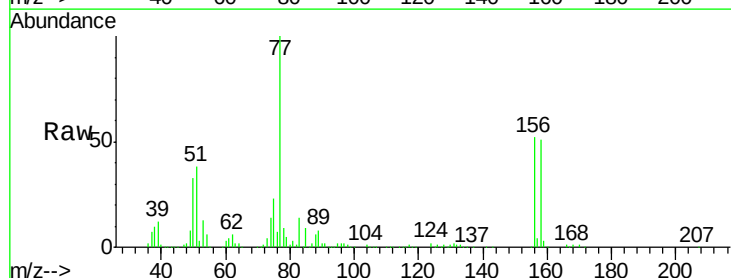
Tgt Ion: 156 Resp: 283878

Ion Ratio Lower Upper

156 100

77 226.4 111.7 335.1

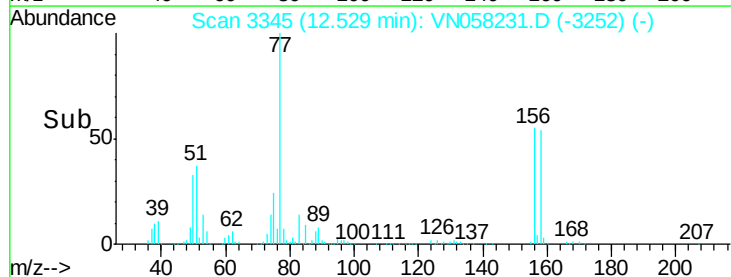
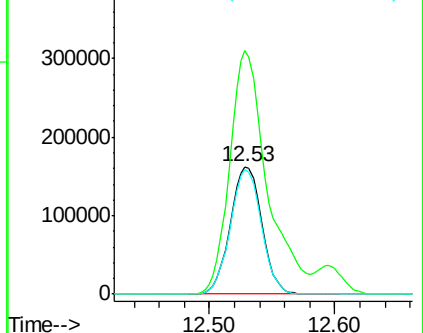
158 96.6 47.9 143.8

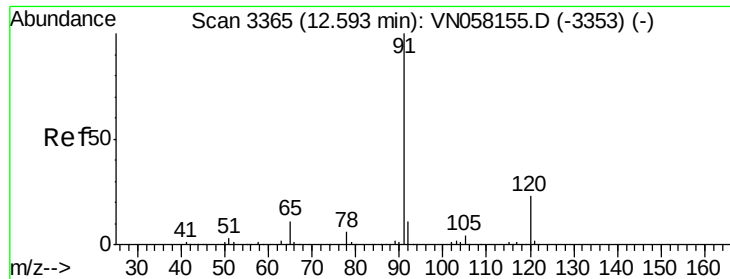


Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V





#78

n-propylbenzene

Concen: 52.883 ug/l

RT: 12.60 min Scan# 3366

Delta R.T. 0.00 min

Lab File: VN058231.D

Acq: 20 Sep 2019 1:31

Instrument :

MSVOA_N

ClientSampleId :

RE123D1-20190912MSD

Tot Ion: 91 Resp: 1395774

Ion Ratio Lower Upper

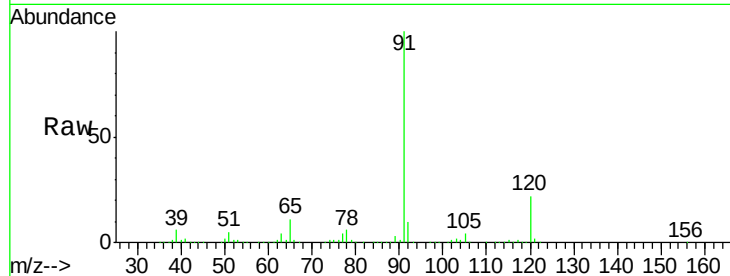
91 100

120 21.8 11.1 33.3

Manual Integrations
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Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V

1000000

800000

600000

400000

200000

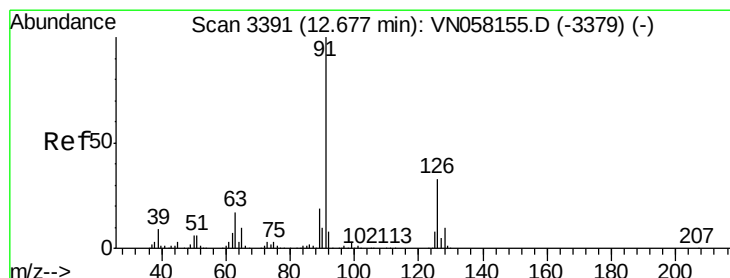
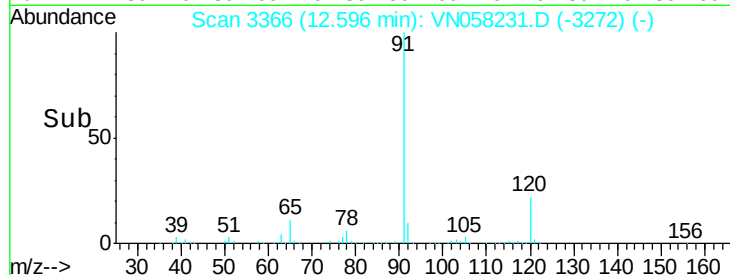
0

12.55

12.60

12.65

Time-->



#79

2-Chlorotoluene

Concen: 51.161 ug/l

RT: 12.68 min Scan# 3392

Delta R.T. 0.00 min

Lab File: VN058231.D

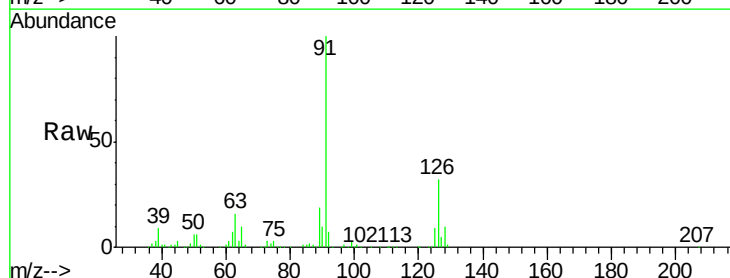
Acq: 20 Sep 2019 1:31

Tgt Ion: 91 Resp: 843908

Ion Ratio Lower Upper

91 100

126 32.6 16.4 49.1



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

800000

600000

400000

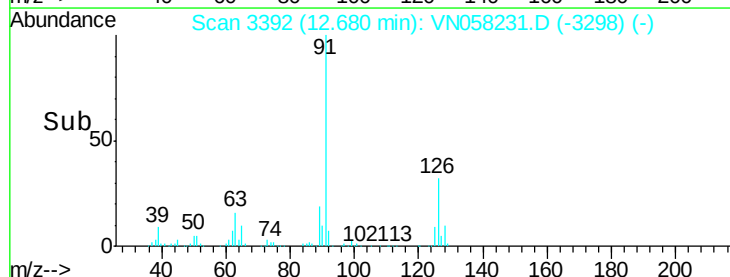
200000

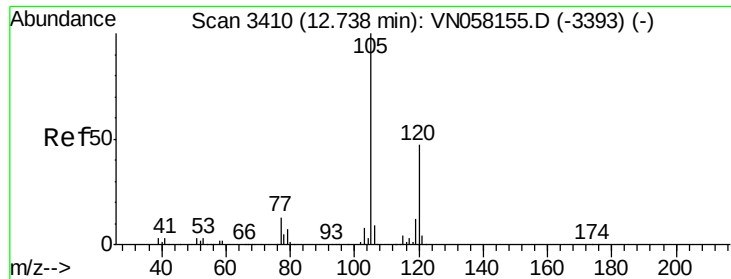
0

12.65

12.70

Time-->





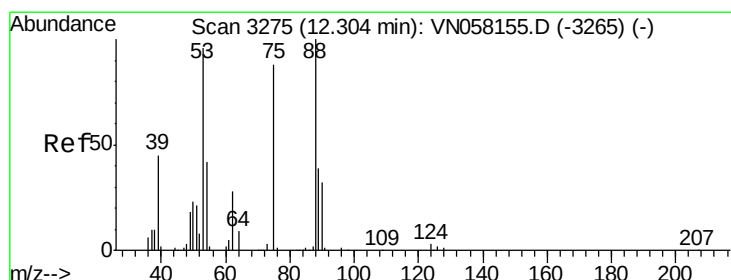
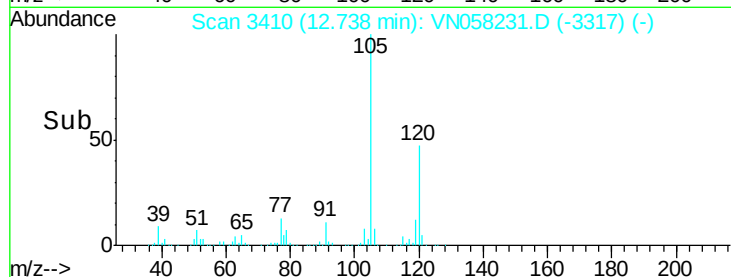
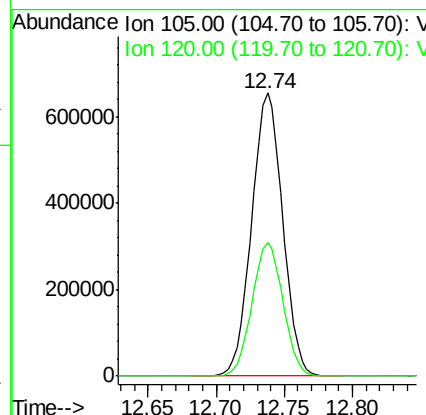
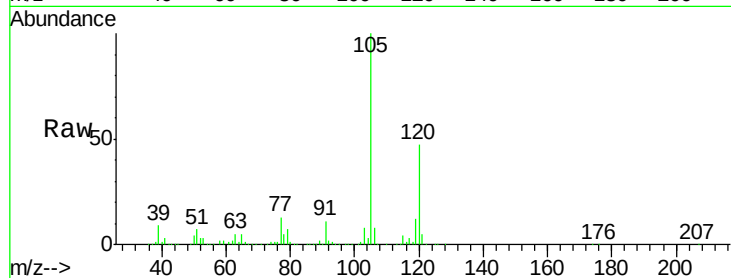
#80
 1,3,5-Trimethylbenzene
 Concen: 52.418 ug/l
 RT: 12.74 min Scan# 3410
 Delta R.T. -0.00 min
 Lab File: VN058231.D
 Acq: 20 Sep 2019 1:31

Instrument :
 MSVOA_N
 ClientSampleId :
 RE123D1-20190912MSD

Tot Ion:105 Resp: 1029533
 Ion Ratio Lower Upper
 105 100
 120 47.2 23.4 70.0

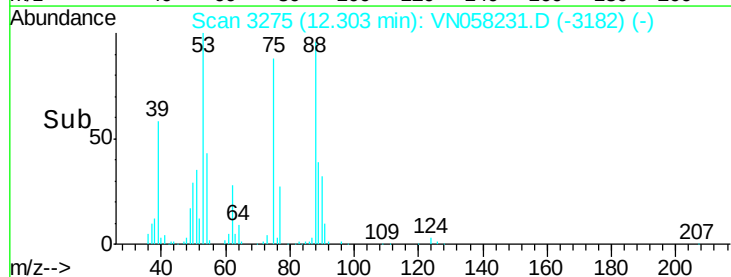
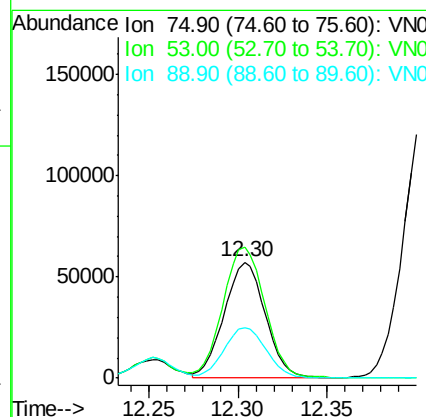
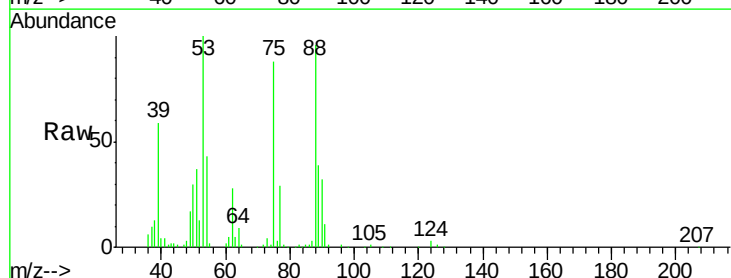
Manual Integrations
 APPROVED

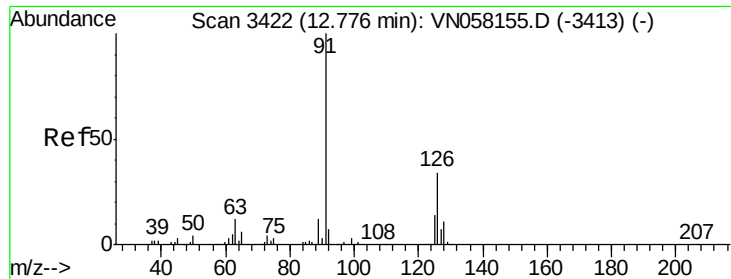
MMDadoda
 9/20/2019 3:37:02 PM



#81
 trans-1,4-Dichloro-2-butene
 Concen: 42.418 ug/l
 RT: 12.30 min Scan# 3275
 Delta R.T. 0.00 min
 Lab File: VN058231.D
 Acq: 20 Sep 2019 1:31

Tgt Ion: 75 Resp: 92437
 Ion Ratio Lower Upper
 75 100
 53 116.0 90.1 135.1
 89 44.5 36.2 54.2





#82

4-Chlorotoluene

Concen: 51.182 ug/l

RT: 12.78 min Scan# 3422

Delta R.T. -0.00 min

Lab File: VN058231.D

Acq: 20 Sep 2019 1:31

Instrument :

MSVOA_N

ClientSampleId :

RE123D1-20190912MSD

Tot Ion: 91 Resp: 887458

Ion Ratio Lower Upper

91 100

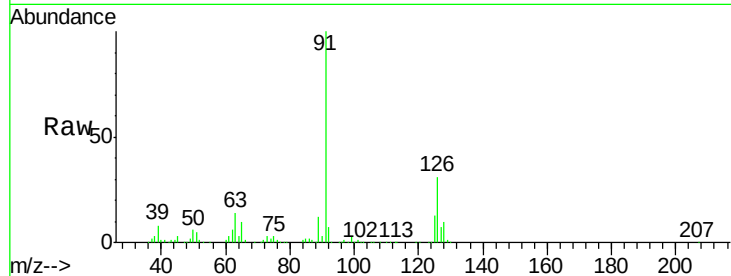
126 31.4 15.7 47.1

Manual Integrations

APPROVED

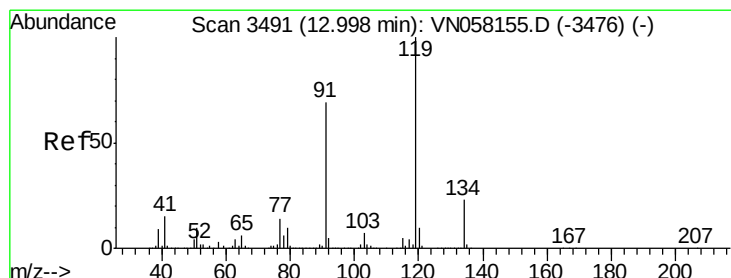
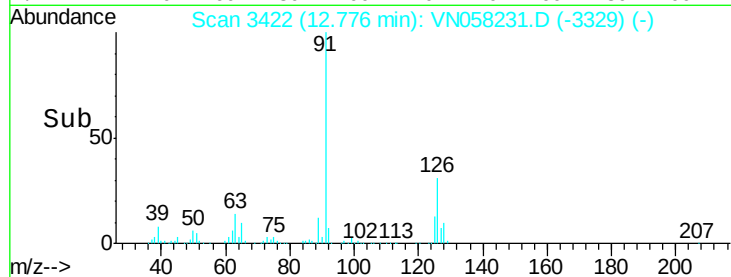
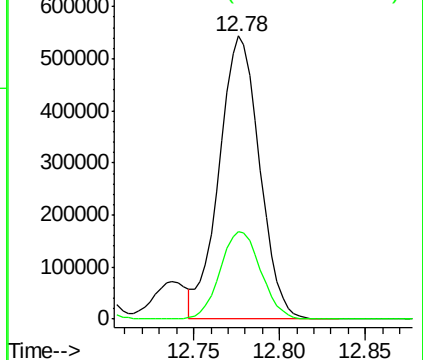
MMDadoda

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Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V



#83

tert-Butylbenzene

Concen: 51.881 ug/l

RT: 13.00 min Scan# 3491

Delta R.T. -0.00 min

Lab File: VN058231.D

Acq: 20 Sep 2019 1:31

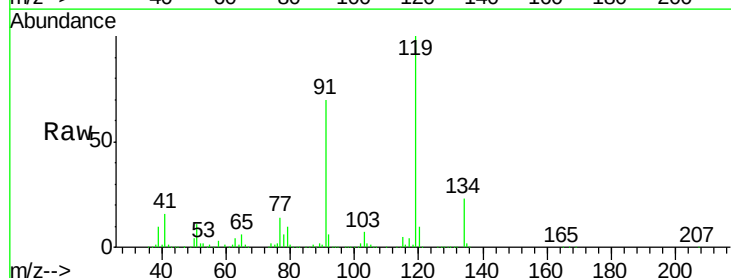
Tgt Ion: 119 Resp: 908723

Ion Ratio Lower Upper

119 100

91 68.4 33.8 101.3

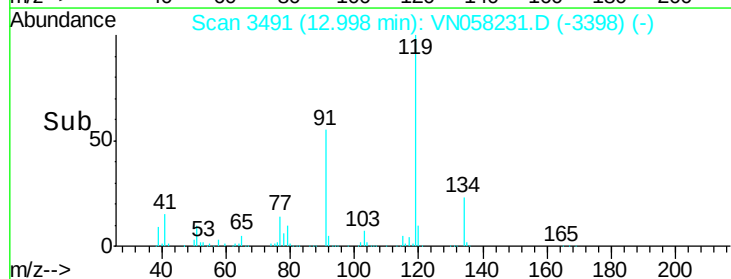
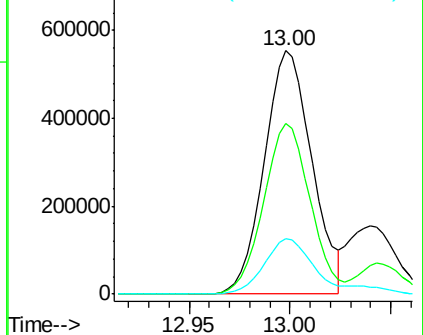
134 25.6 11.6 34.8

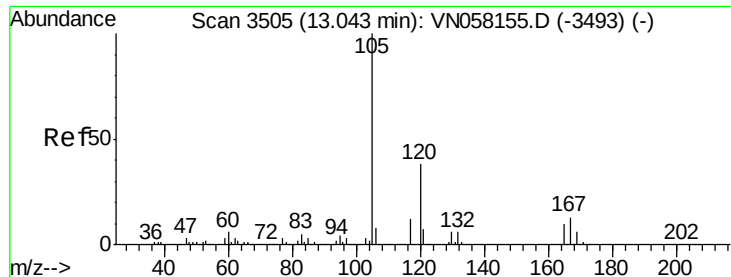


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN0

Ion 134.00 (133.70 to 134.70): V





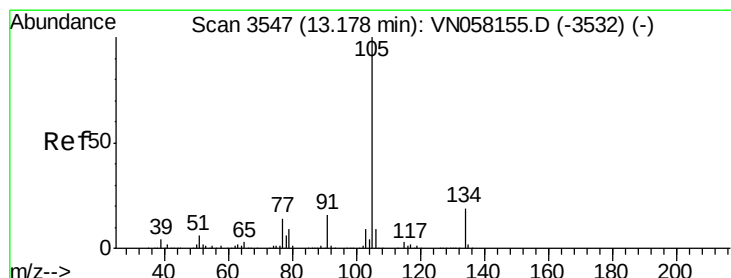
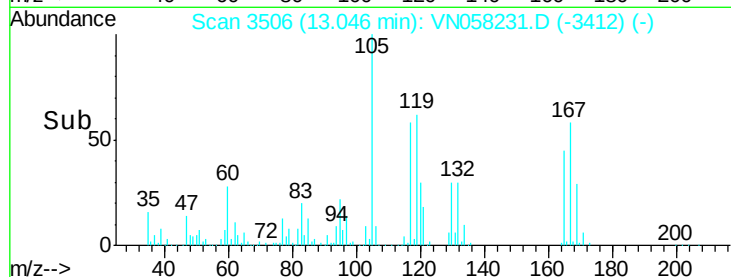
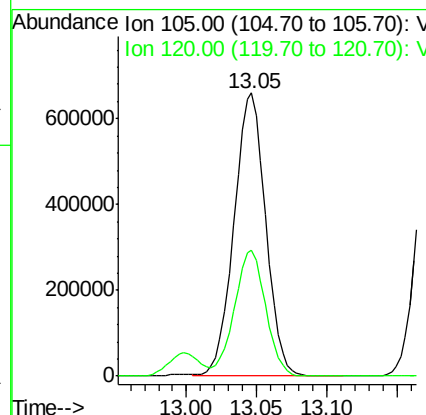
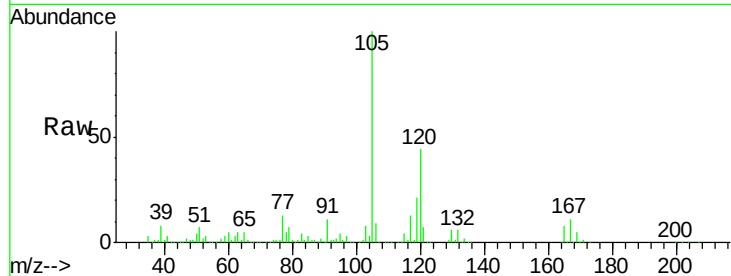
#84
 1,2,4-Trimethylbenzene
 Concen: 52.917 ug/l
 RT: 13.05 min Scan# 3506
 Delta R.T. 0.00 min
 Lab File: VN058231.D
 Acq: 20 Sep 2019 1:31

Instrument :
 MSVOA_N
 ClientSampleId :
 RE123D1-20190912MSD

Tot Ion:105 Resp: 1034315
 Ion Ratio Lower Upper
 105 100
 120 44.0 22.1 66.5

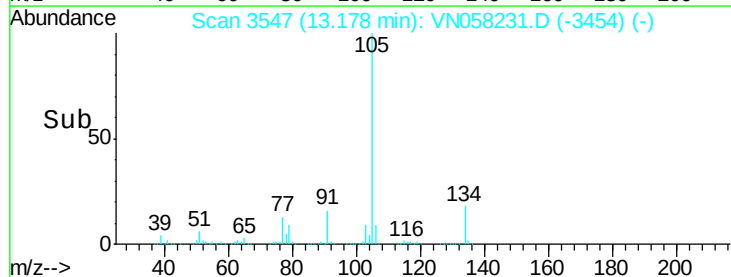
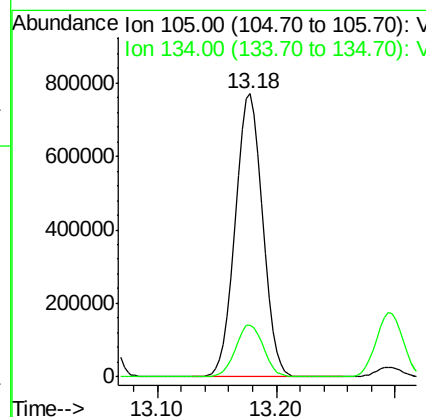
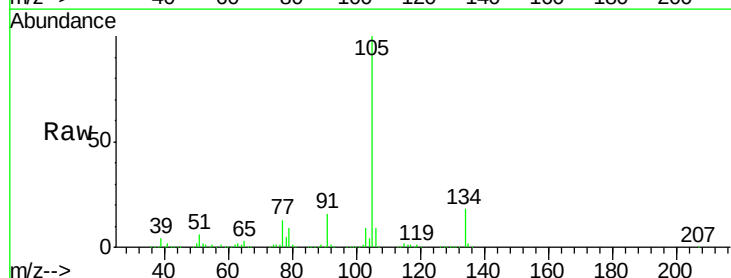
Manual Integrations
 APPROVED

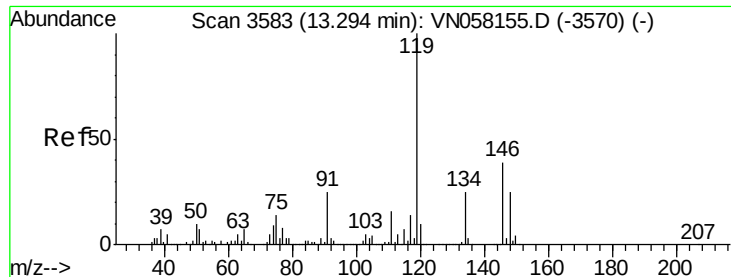
MMDadoda
 9/20/2019 3:37:02 PM



#85
 sec-Butylbenzene
 Concen: 53.569 ug/l
 RT: 13.18 min Scan# 3547
 Delta R.T. -0.00 min
 Lab File: VN058231.D
 Acq: 20 Sep 2019 1:31

Tgt Ion:105 Resp: 1226958
 Ion Ratio Lower Upper
 105 100
 134 18.6 9.5 28.5





#86

p-Isopropyltoluene

Concen: 53.407 ug/l

RT: 13.29 min Scan# 3583

Delta R.T. -0.00 min

Lab File: VN058231.D

Acq: 20 Sep 2019 1:31

Instrument :

MSVOA_N

ClientSampleId :

RE123D1-20190912MSD

Tot Ion:119 Resp: 1087498

Ion Ratio Lower Upper

119 100

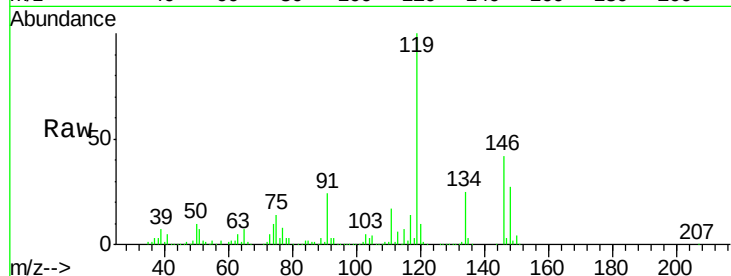
134 25.4 12.7 38.0

91 24.4 12.3 36.8

Manual Integrations
APPROVED

MMDadoda

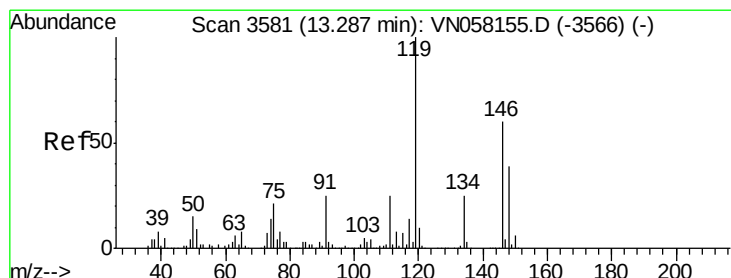
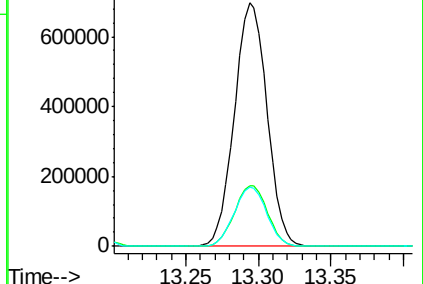
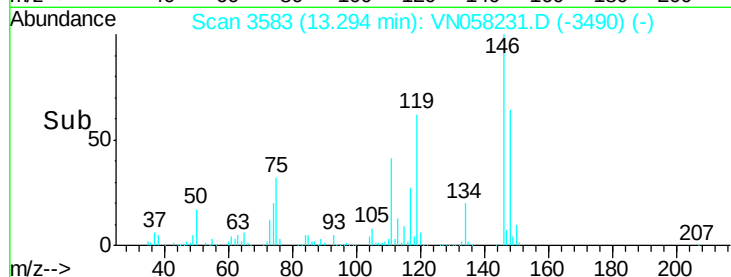
9/20/2019 3:37:02 PM



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#87

1,3-Dichlorobenzene

Concen: 50.681 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN058231.D

Acq: 20 Sep 2019 1:31

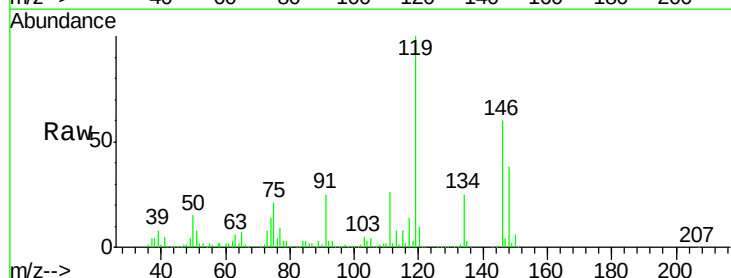
Tgt Ion:146 Resp: 540831

Ion Ratio Lower Upper

146 100

111 42.0 20.9 62.8

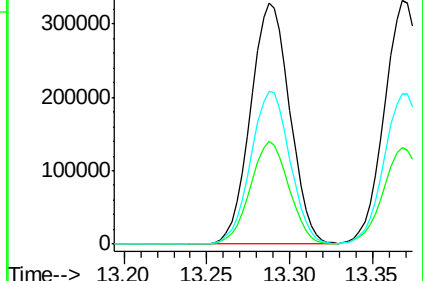
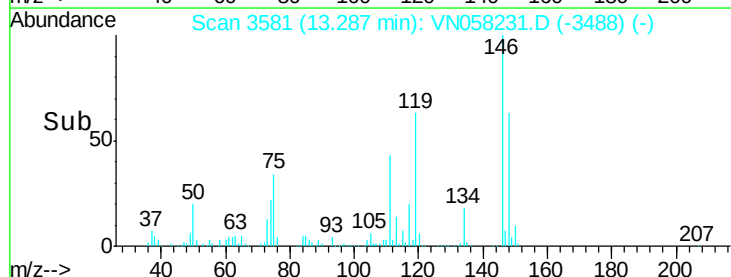
148 63.5 32.0 96.2

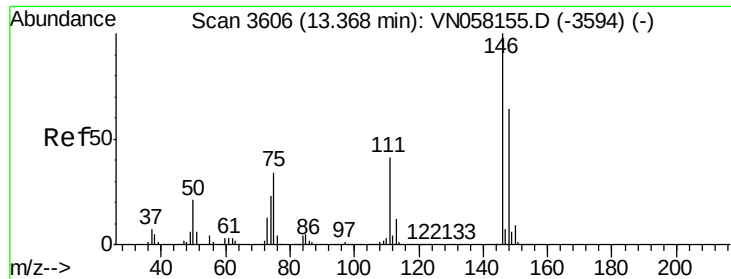


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





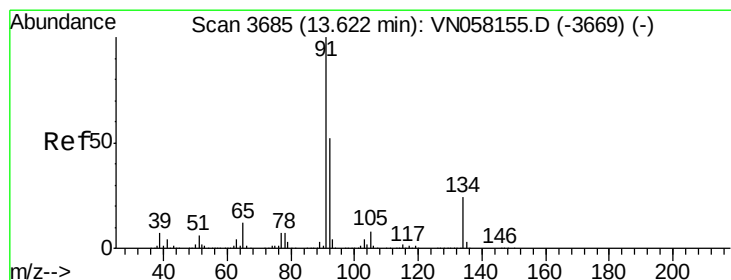
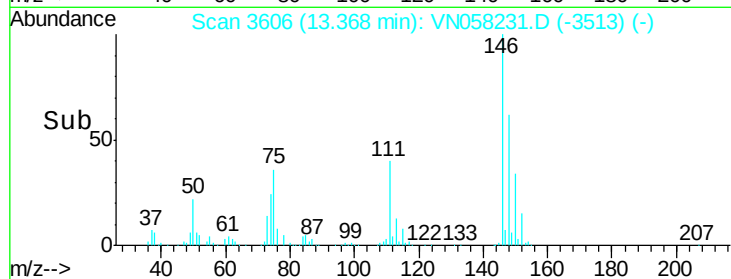
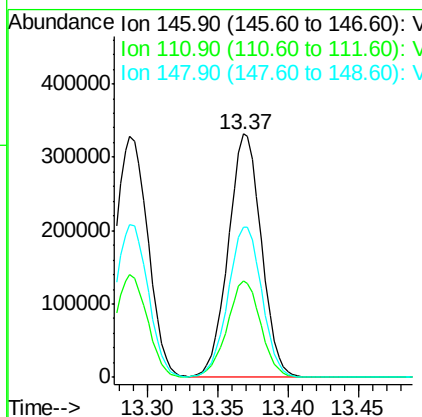
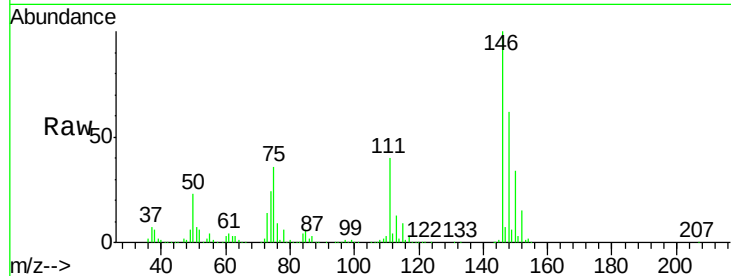
#88
 1,4-Dichlorobenzene
 Concen: 49.892 ug/l
 RT: 13.37 min Scan# 3606
 Delta R.T. -0.00 min
 Lab File: VN058231.D
 Acq: 20 Sep 2019 1:31

Instrument :
 MSVOA_N
 ClientSampleId :
 RE123D1-20190912MSD

Tot Ion	Ratio	Resp	Lower	Upper
146	100	543548		
111	40.1		20.5	61.5
148	63.4		31.9	95.5

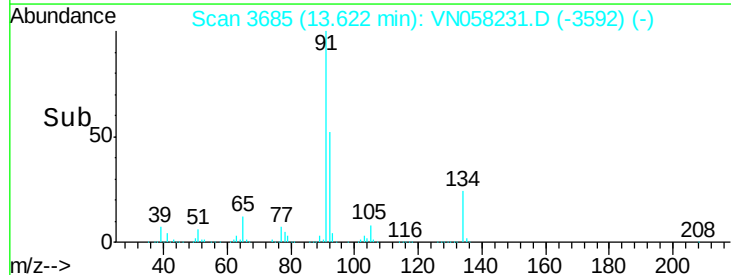
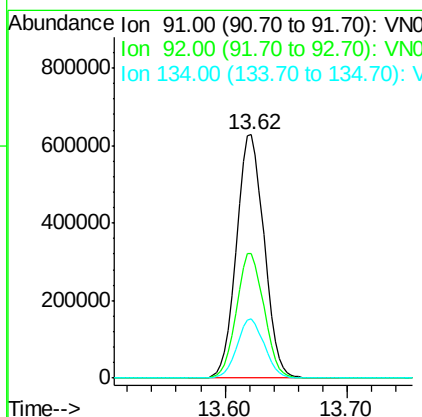
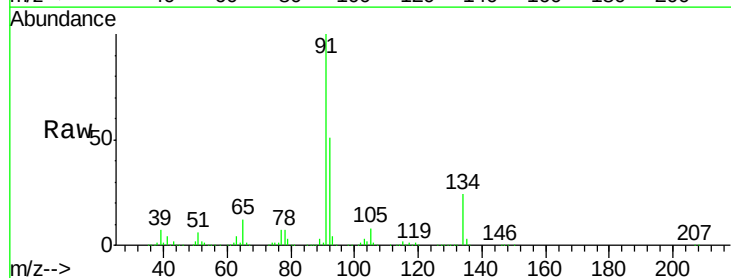
Manual Integrations
 APPROVED

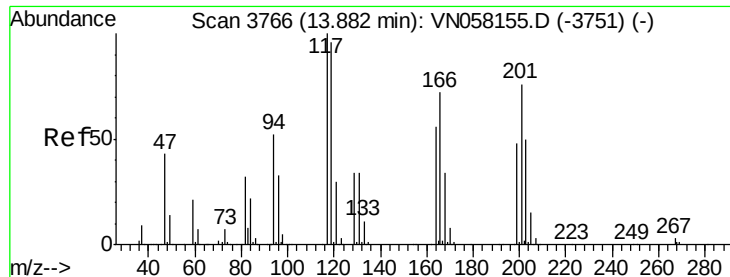
MMDadoda
 9/20/2019 3:37:02 PM



#89
 n-Butylbenzene
 Concen: 50.981 ug/l
 RT: 13.62 min Scan# 3685
 Delta R.T. -0.00 min
 Lab File: VN058231.D
 Acq: 20 Sep 2019 1:31

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	984184		
92	51.1		25.7	77.0
134	24.1		11.8	35.4





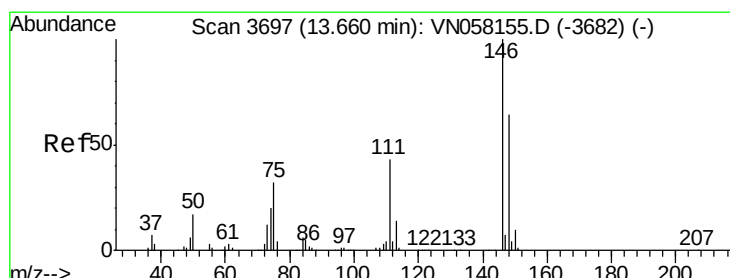
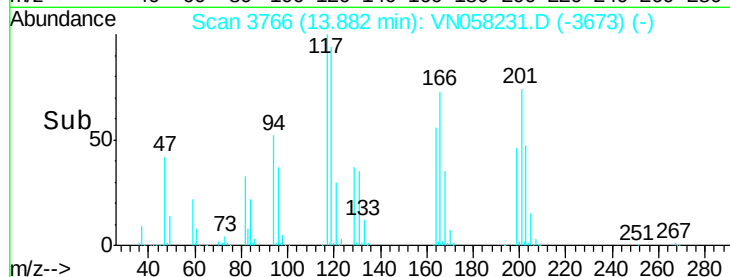
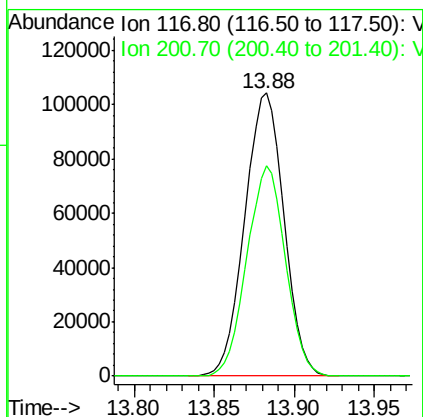
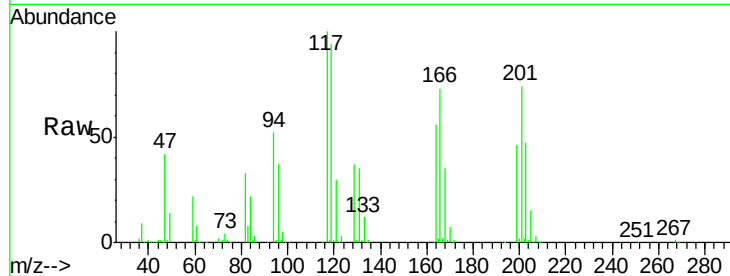
#90
Hexachloroethane
Concen: 48.926 ug/l
RT: 13.88 min Scan# 3766
Delta R.T. 0.00 min
Lab File: VN058231.D
Acq: 20 Sep 2019 1:31

Instrument :
MSVOA_N
ClientSampleId :
RE123D1-20190912MSD

Tot Ion:117 Resp: 174470
Ion Ratio Lower Upper
117 100
201 73.2 37.5 112.5

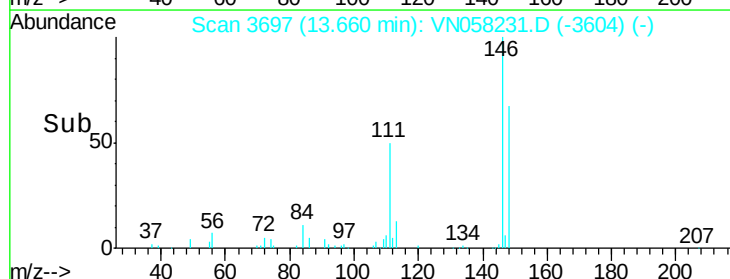
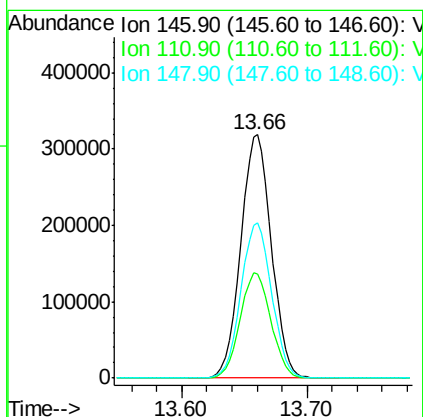
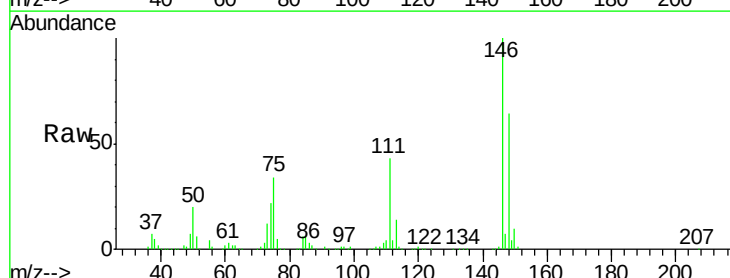
Manual Integrations
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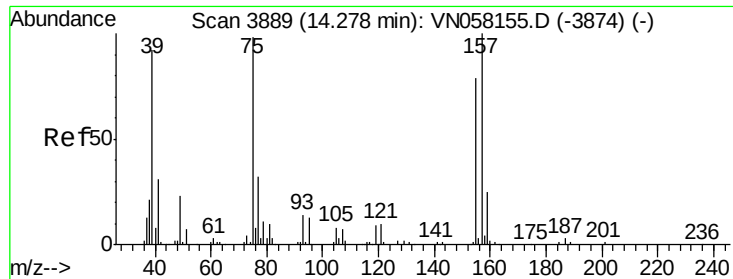
MMDadoda
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#91
1,2-Dichlorobenzene
Concen: 50.559 ug/l
RT: 13.66 min Scan# 3697
Delta R.T. -0.00 min
Lab File: VN058231.D
Acq: 20 Sep 2019 1:31

Tgt Ion:146 Resp: 541209
Ion Ratio Lower Upper
146 100
111 43.6 21.1 63.1
148 63.8 31.8 95.4





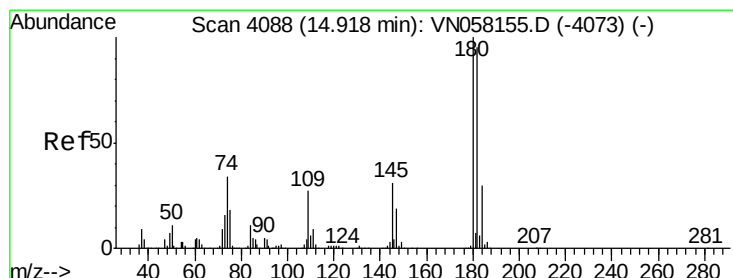
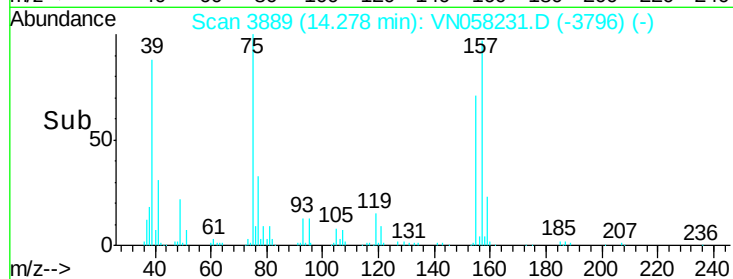
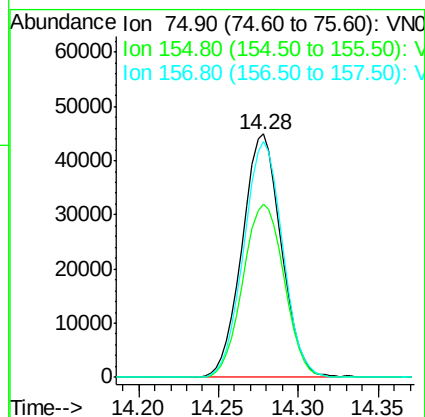
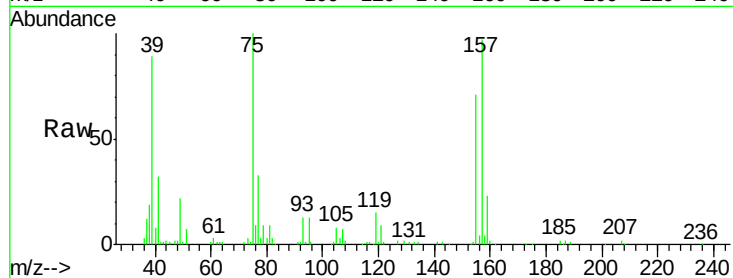
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 53.579 ug/l
 RT: 14.28 min Scan# 3889
 Delta R.T. -0.00 min
 Lab File: VN058231.D
 Acq: 20 Sep 2019 1:31

Instrument :
 MSVOA_N
 ClientSampleId :
 RE123D1-20190912MSD

Tot Ion	Ratio	Lower	Upper
75	100		
155	74.9	38.3	114.8
157	96.1	48.0	144.0

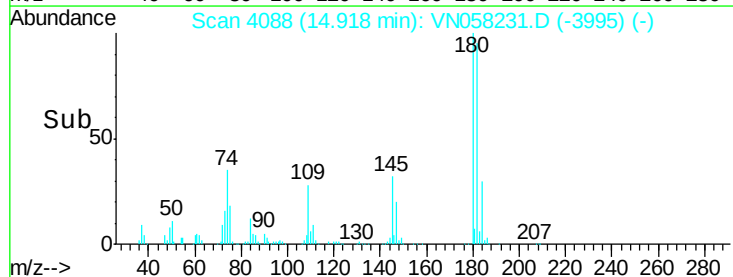
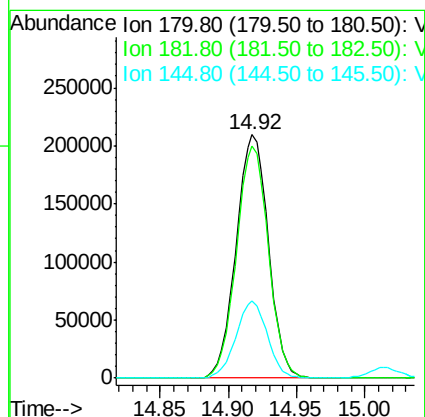
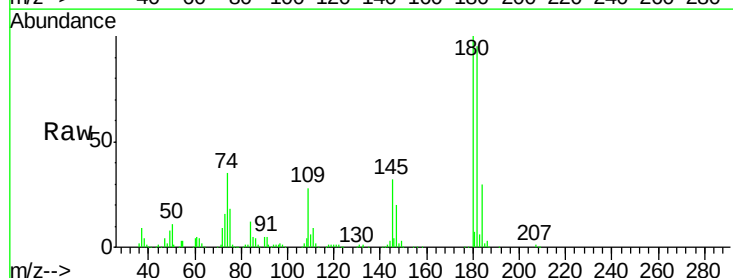
Manual Integrations
 APPROVED

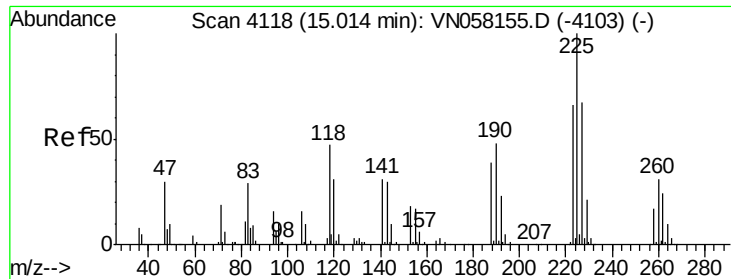
MMDadoda
 9/20/2019 3:37:02 PM



#93
 1,2,4-Trichlorobenzene
 Concen: 50.133 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. -0.00 min
 Lab File: VN058231.D
 Acq: 20 Sep 2019 1:31

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.7	47.8	143.3
145	30.9	15.4	46.4





#94

Hexachlorobutadiene

Concen: 47.124 ug/l

RT: 15.02 min Scan# 4119

Delta R.T. 0.00 min

Lab File: VN058231.D

Acq: 20 Sep 2019 1:31

Instrument :

MSVOA_N

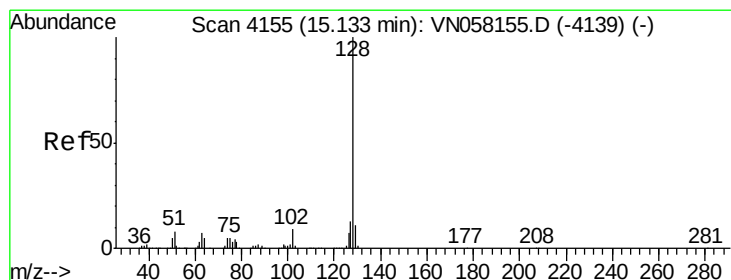
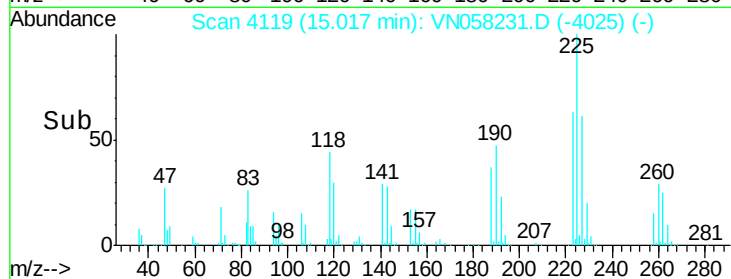
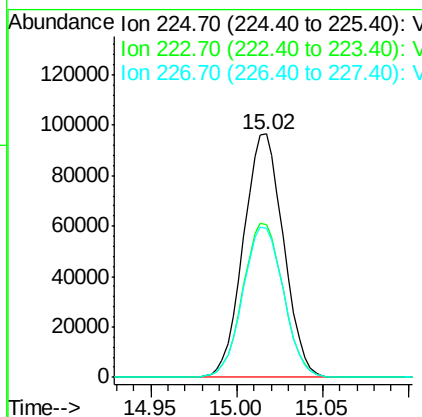
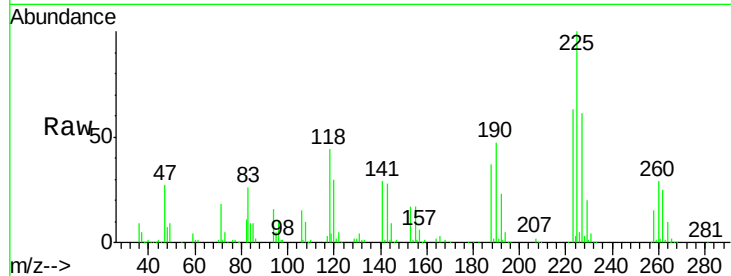
ClientSampleId :

RE123D1-20190912MSD

Tot Ion:	225	Resp:	155776
Ion Ratio	Lower	Upper	
225	100		
223	63.9	32.6	97.7
227	62.8	33.0	99.0

Manual Integrations
APPROVED

MMDadoda
9/20/2019 3:37:02 PM



#95

Naphthalene

Concen: 54.192 ug/l

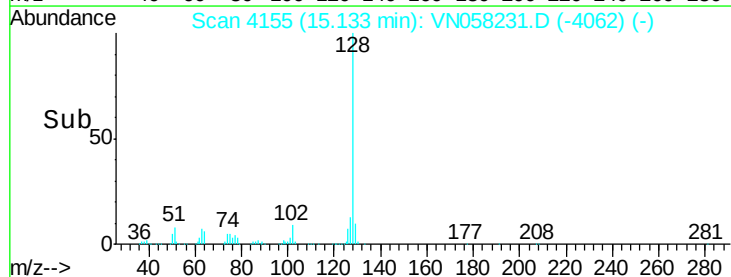
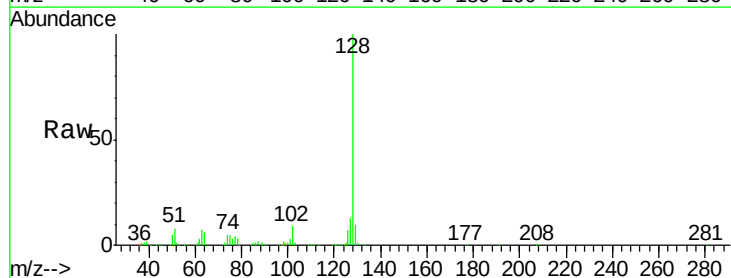
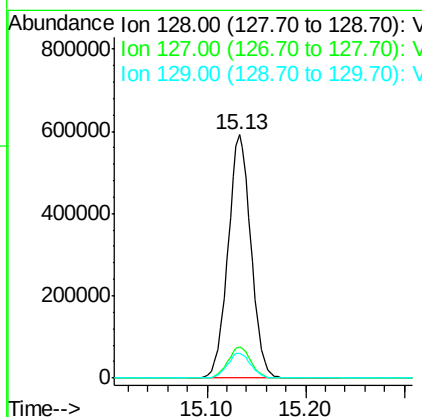
RT: 15.13 min Scan# 4155

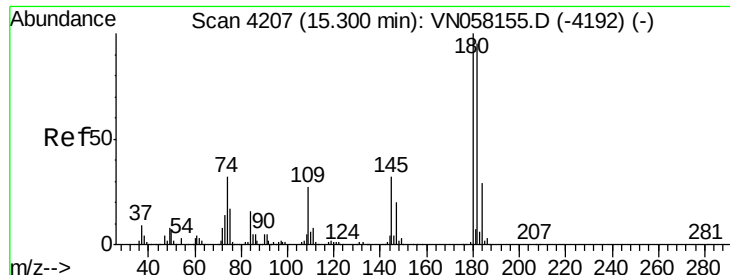
Delta R.T. -0.00 min

Lab File: VN058231.D

Acq: 20 Sep 2019 1:31

Tgt Ion:	128	Resp:	960534
Ion Ratio	Lower	Upper	
128	100		
127	12.7	10.2	15.2
129	10.5	8.6	12.8





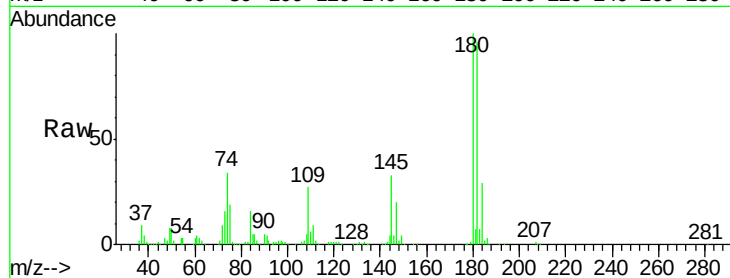
#96
 1,2,3-Trichlorobenzene
 Concen: 50.136 ug/l
 RT: 15.30 min Scan# 4207
 Delta R.T. -0.00 min
 Lab File: VN058231.D
 Acq: 20 Sep 2019 1:31

Instrument :
 MSVOA_N
 ClientSampleId :
 RE123D1-20190912MSD

Tot Ion	Ratio	Resp Lower	Upper
180	100		
182	95.4	47.4	142.2
145	32.9	16.1	48.2

Manual Integrations
 APPROVED

MMDadoda
 9/20/2019 3:37:02 PM



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

