

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041819\
 Data File : VN055122.D
 Acq On : 18 Apr 2019 15:45
 Operator : JC/SP
 Sample : VN0418MBS01
 Misc : 5.00uL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0418MBS01

Manual Integrations
 APPROVED

MMDadoda
 4/19/2019 5:46:56 PM

Quant Time: Apr 19 09:12:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041519W.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 15 12:28:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	403539	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	649595	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	554619	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	216107	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	265005	49.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.80%	
35) Dibromofluoromethane	7.59	113	213472	49.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.34%	
50) Toluene-d8	10.09	98	768231	49.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.88%	
62) 4-Bromofluorobenzene	12.40	95	247836	49.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.12%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	82635	18.019	ug/l	98
3) Chloromethane	2.06	50	103296	17.269	ug/l	100
4) Vinyl Chloride	2.19	62	85257	16.958	ug/l	99
5) Bromomethane	2.56	94	41724	14.670	ug/l	94
6) Chloroethane	2.70	64	47012	17.339	ug/l	97
7) Trichlorofluoromethane	3.02	101	124932	19.869	ug/l	99
8) Diethyl Ether	3.41	74	47655	23.743	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	3.76	101	76441	23.231	ug/l	98
10) Methyl Iodide	3.95	142	82715	16.199	ug/l	94
11) Tert butyl alcohol	4.80	59	36823	125.239	ug/l	99
12) 1,1-Dichloroethene	3.74	96	71537	22.335	ug/l	89
13) Acrolein	3.61	56	26272	72.290	ug/l	99
14) Allyl chloride	4.32	41	147793	18.851	ug/l	99
15) Acrylonitrile	4.99	53	184963	105.144	ug/l	99
16) Acetone	3.82	43	168451	115.703	ug/l	91
17) Carbon Disulfide	4.05	76	168903	16.336	ug/l	99
18) Methyl Acetate	4.33	43	90622	21.346	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	231475	20.203	ug/l	98
20) Methylene Chloride	4.55	84	91017	17.784	ug/l	99
21) trans-1,2-Dichloroethene	5.05	96	78003	18.007	ug/l	93
22) Diisopropyl ether	5.95	45	317062	19.673	ug/l	# 92
23) Vinyl Acetate	5.90	43	1090885	102.402	ug/l	99
24) 1,1-Dichloroethane	5.85	63	163118	19.006	ug/l	99
25) 2-Butanone	6.84	43	241980	111.362	ug/l	100
26) 2,2-Dichloropropane	6.83	77	104531	19.297	ug/l	97
27) cis-1,2-Dichloroethene	6.83	96	94501	19.282	ug/l	98
28) Bromochloromethane	7.20	49	82141	19.854	ug/l	97
29) Tetrahydrofuran	7.21	42	152136	106.768	ug/l	98
30) Chloroform	7.37	83	162019	19.435	ug/l	95
31) Cyclohexane	7.66	56	145761	18.420	ug/l	94
32) 1,1,1-Trichloroethane	7.57	97	126229	19.111	ug/l	98
36) 1,1-Dichloropropene	7.79	75	110055	17.972	ug/l	100
37) Ethyl Acetate	6.93	43	95375	19.131	ug/l	97
38) Carbon Tetrachloride	7.77	117	104101	17.868	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041819\
 Data File : VN055122.D
 Acq On : 18 Apr 2019 15:45
 Operator : JC/SP
 Sample : VN0418MBS01
 Misc : 5.00uL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0418MBS01

Manual Integrations
 APPROVED

MMDadoda
 4/19/2019 5:46:56 PM

Quant Time: Apr 19 09:12:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041519W.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 15 12:28:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	117807	17.753	ug/l	98
40) Benzene	8.04	78	351117	19.025	ug/l	99
41) Methacrylonitrile	7.18	41	59752	21.592	ug/l	91
42) 1,2-Dichloroethane	8.13	62	124871	19.487	ug/l	100
43) Isopropyl Acetate	8.17	43	158531	20.637	ug/l	98
44) Trichloroethene	8.83	130	86564	18.726	ug/l	97
45) 1,2-Dichloropropane	9.12	63	99645	19.360	ug/l	98
46) Dibromomethane	9.21	93	55978	19.107	ug/l	93
47) Bromodichloromethane	9.40	83	117930	19.524	ug/l	97
48) Methyl methacrylate	9.20	41	77411	20.331	ug/l	98
49) 1,4-Dioxane	9.20	88	19184	537.791	ug/l	96
51) 4-Methyl-2-Pentanone	9.99	43	490651	110.558	ug/l	99
52) Toluene	10.16	92	206753	19.560	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	102605	19.438	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	125842	19.208	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	80882	19.860	ug/l	98
56) Ethyl methacrylate	10.43	69	100913	20.647	ug/l	99
57) 1,3-Dichloropropane	10.71	76	139575	20.129	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.70	63	191983	96.327	ug/l	98
59) 2-Hexanone	10.75	43	314126	112.693	ug/l	99
60) Dibromochloromethane	10.90	129	79708	20.043	ug/l	98
61) 1,2-Dibromoethane	11.01	107	77162	20.585	ug/l	96
64) Tetrachloroethene	10.63	164	82462	18.284	ug/l	96
65) Chlorobenzene	11.43	112	209929	18.804	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	80051	19.496	ug/l	99
67) Ethyl Benzene	11.51	91	387269	19.425	ug/l	98
68) m/p-Xylenes	11.62	106	277101	38.383	ug/l	99
69) o-Xylene	11.95	106	138040	19.741	ug/l	98
70) Styrene	11.96	104	223403	19.738	ug/l	99
71) Bromoform	12.13	173	48217	20.487	ug/l #	98
73) Isopropylbenzene	12.25	105	362064	18.880	ug/l	100
74) N-amyl acetate	12.07	43	114869	21.279	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	105121	20.486	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	96837m	24.919	ug/l	
77) Bromobenzene	12.53	156	88645	18.542	ug/l	97
78) n-propylbenzene	12.59	91	395946	19.110	ug/l	100
79) 2-Chlorotoluene	12.67	91	246293	19.058	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	296437	19.155	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	21025	21.635	ug/l	94
82) 4-Chlorotoluene	12.77	91	233820	19.393	ug/l	99
83) tert-Butylbenzene	12.99	119	251548	19.247	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	282660	19.273	ug/l	99
85) sec-Butylbenzene	13.17	105	322766	19.381	ug/l	98
86) p-Isopropyltoluene	13.29	119	274794	19.233	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	139338	19.175	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	133743	19.300	ug/l	99
89) n-Butylbenzene	13.61	91	200953	18.946	ug/l	99
90) Hexachloroethane	13.87	117	44135	18.985	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	142021	19.425	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	13327	21.091	ug/l	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041819\
Data File : VN055122.D
Acq On : 18 Apr 2019 15:45
Operator : JC/SP
Sample : VN0418MBS01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0418MBS01

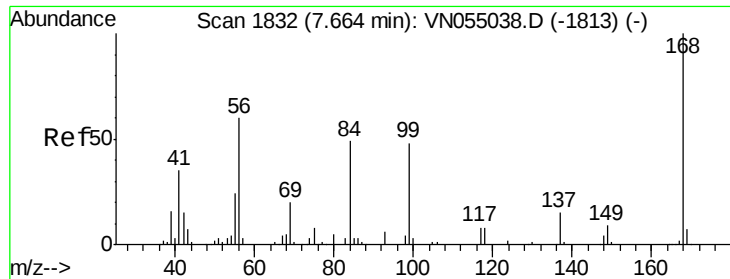
Manual Integrations
APPROVED

MMDadoda
4/19/2019 5:46:56 PM

Quant Time: Apr 19 09:12:11 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041519W.M
Quant Title : SW846 8260
QLast Update : Mon Apr 15 12:28:28 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	48158	16.430	ug/l	99
94) Hexachlorobutadiene	15.01	225	43818	19.404	ug/l	99
95) Naphthalene	15.13	128	112845	16.737	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	53485	18.963	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055122.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_N

ClientSampleId :

VN0418MBS01

Tot Ion:168 Resp: 403539

Ion Ratio Lower Upper

168 100

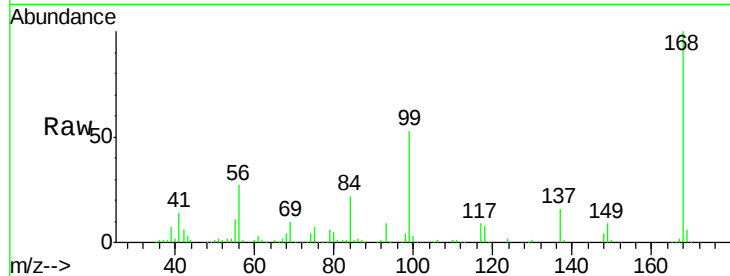
99 52.2 41.9 62.9

Manual Integrations

APPROVED

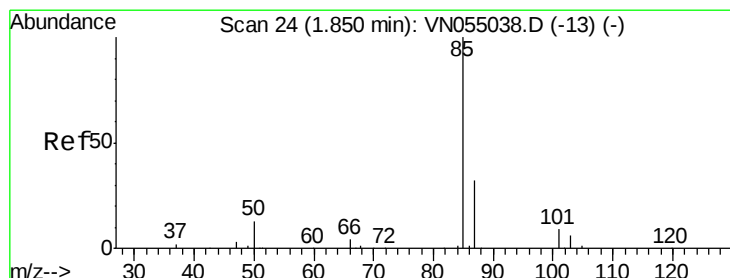
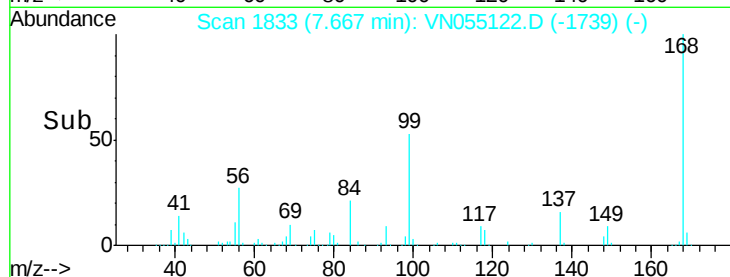
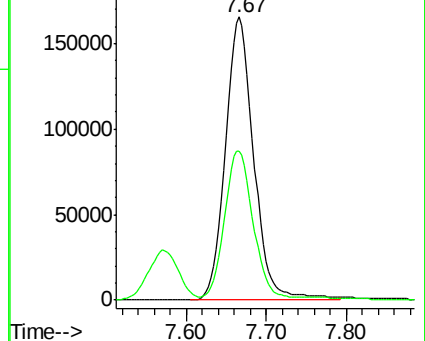
MMDadoda

4/19/2019 5:46:56 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#2

Dichlorodifluoromethane

Concen: 18.019 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN055122.D

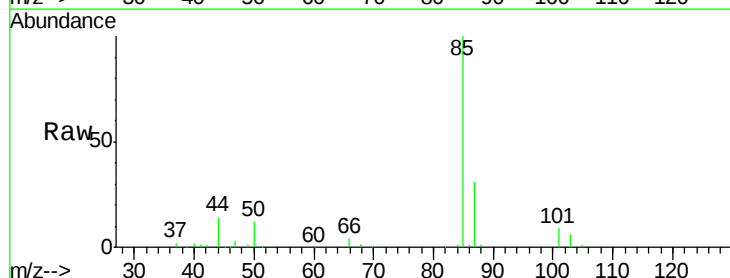
Acq: 18 Apr 2019 15:45

Tgt Ion: 85 Resp: 82635

Ion Ratio Lower Upper

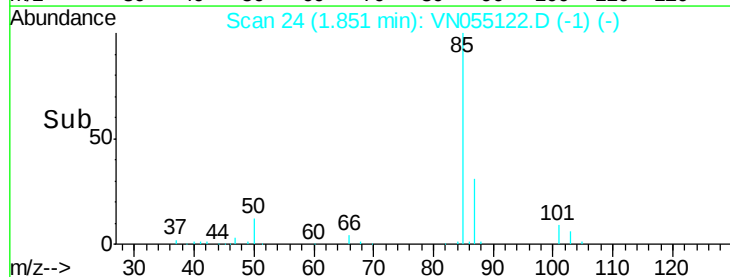
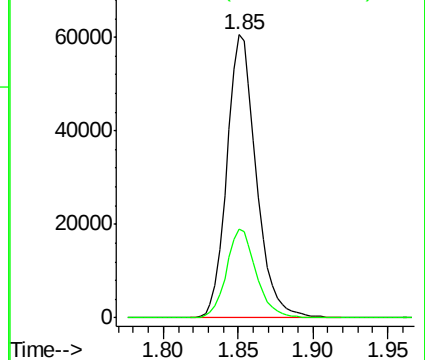
85 100

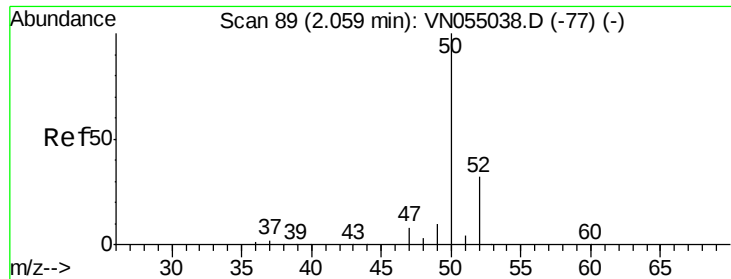
87 31.4 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0





#3

Chloromethane

Concen: 17.269 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN055122.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_N

ClientSampleId :

VN0418MBS01

Tot Ion: 50 Resp: 103296

Ion Ratio Lower Upper

50 100

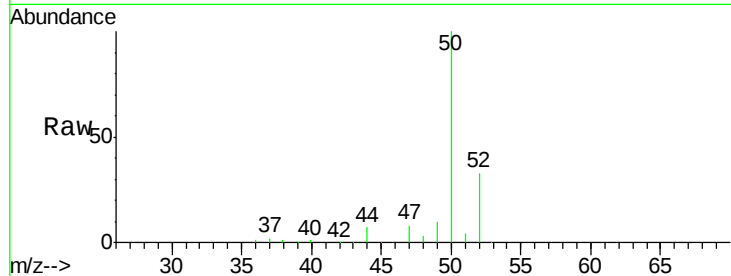
52 33.2 26.6 40.0

Manual Integrations

APPROVED

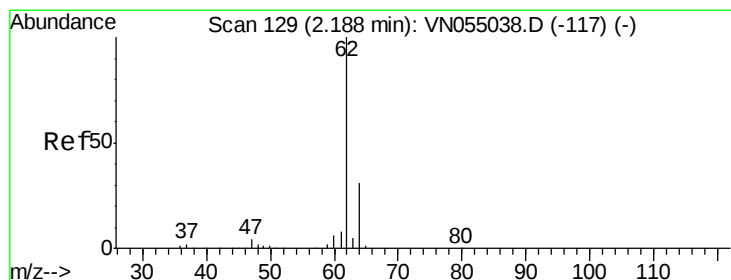
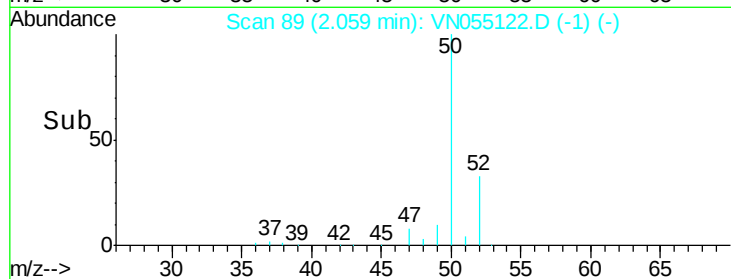
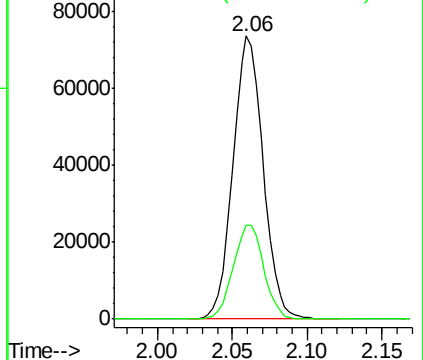
MMDadoda

4/19/2019 5:46:56 PM



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 16.958 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN055122.D

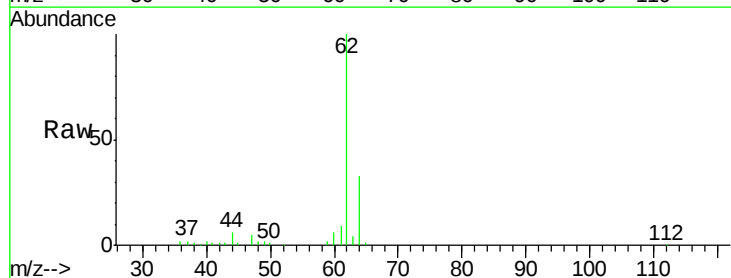
Acq: 18 Apr 2019 15:45

Tgt Ion: 62 Resp: 85257

Ion Ratio Lower Upper

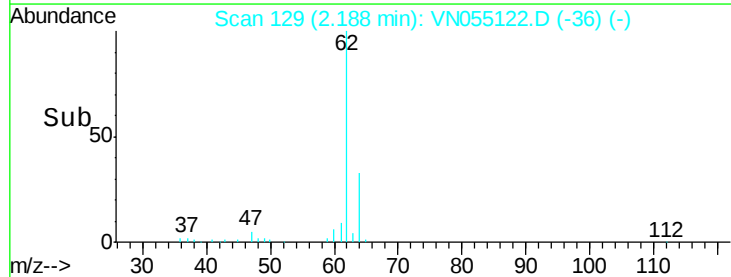
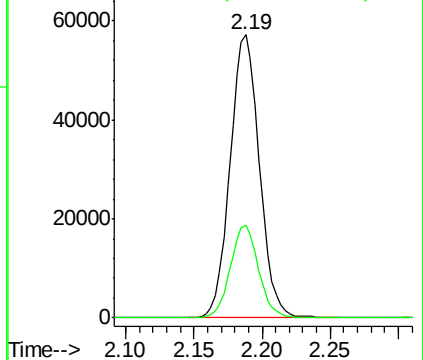
62 100

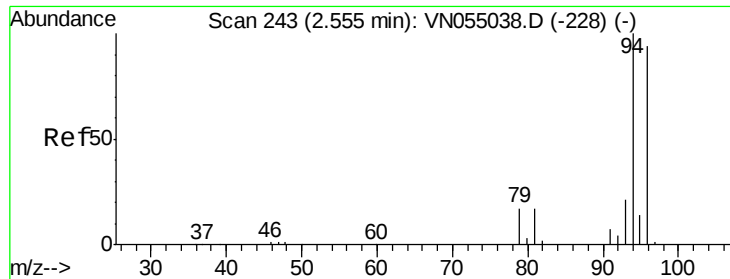
64 32.8 25.8 38.6



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





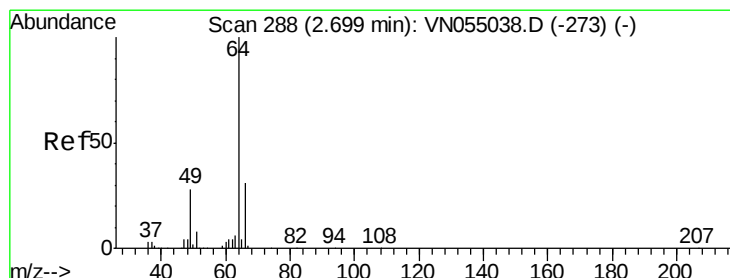
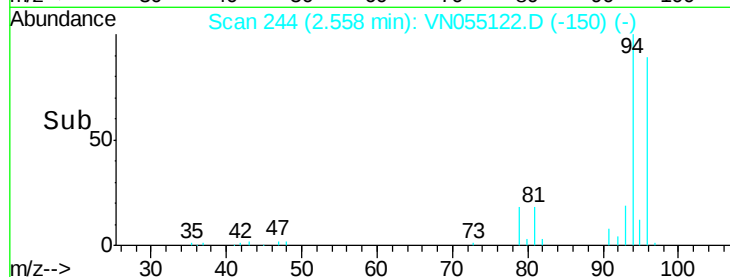
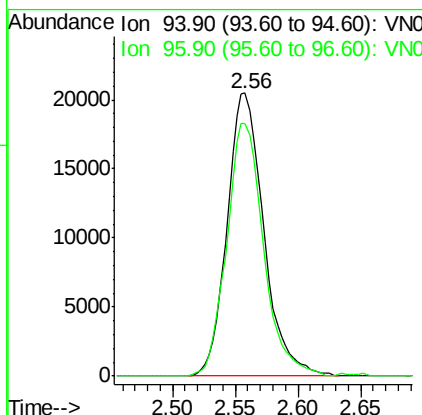
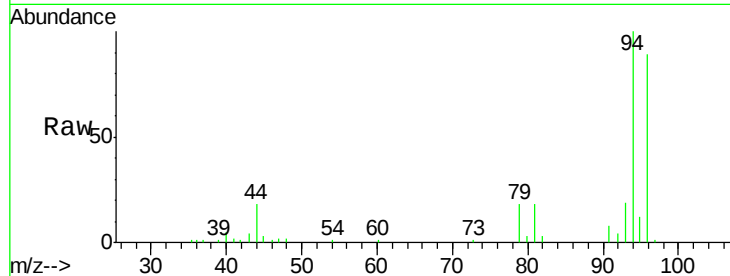
#5
Bromomethane
Concen: 14.670 ug/l
RT: 2.56 min Scan# 244
Delta R.T. 0.00 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Instrument :
MSVOA_N
ClientSampleId :
VN0418MBS01

Tot Ion: 94 Resp: 41724
Ion Ratio Lower Upper
94 100
96 89.4 76.2 114.4

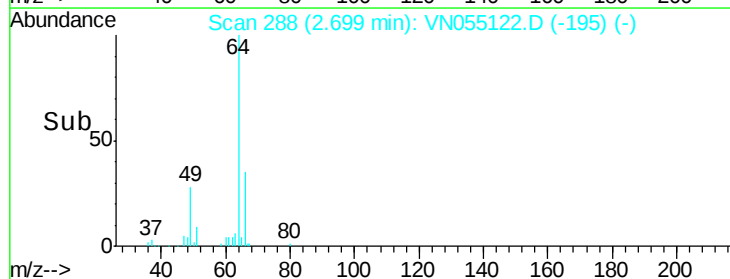
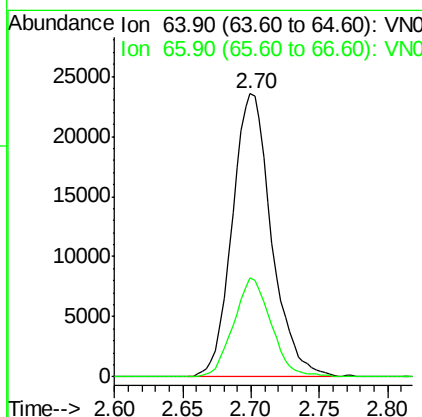
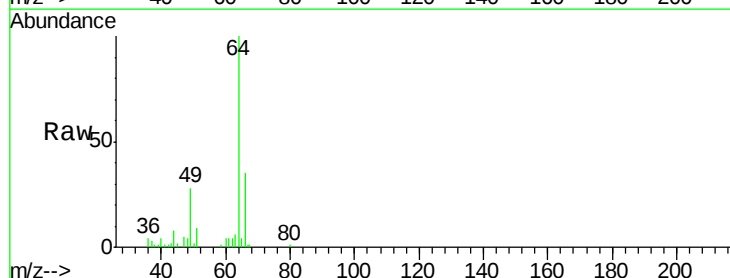
Manual Integrations
APPROVED

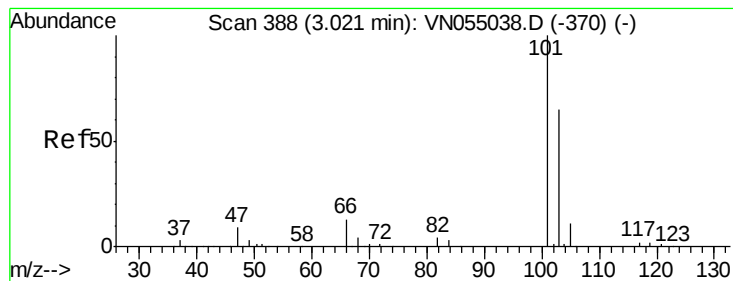
MMDadoda
4/19/2019 5:46:56 PM



#6
Chloroethane
Concen: 17.339 ug/l
RT: 2.70 min Scan# 288
Delta R.T. 0.00 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Tgt Ion: 64 Resp: 47012
Ion Ratio Lower Upper
64 100
66 35.0 26.6 40.0





#7

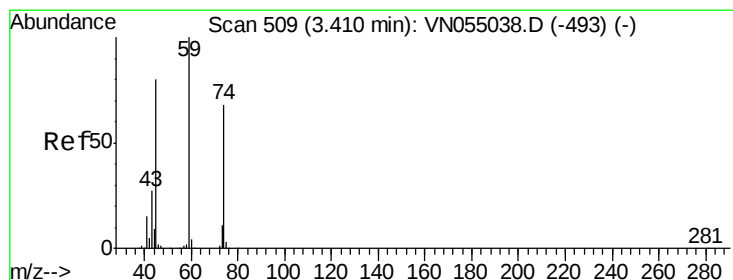
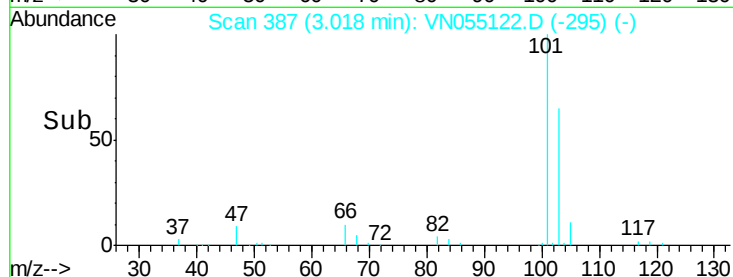
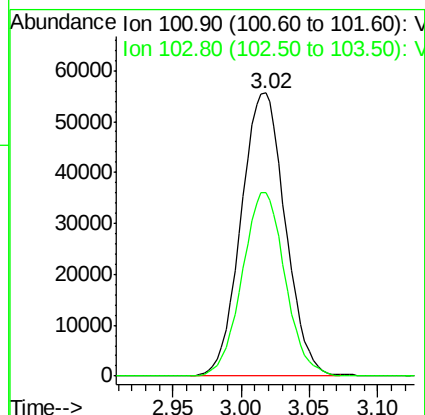
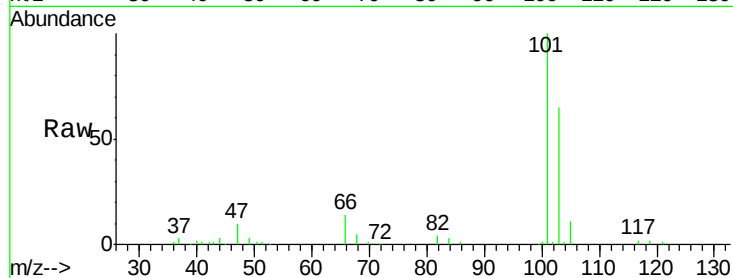
Trichlorofluoromethane
Concen: 19.869 ug/l
RT: 3.02 min Scan# 387
Delta R.T. -0.00 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Instrument :
MSVOA_N
ClientSampleId :
VN0418MBS01

Tot Ion:101 Resp: 124932
Ion Ratio Lower Upper
101 100
103 64.7 52.5 78.7

Manual Integrations
APPROVED

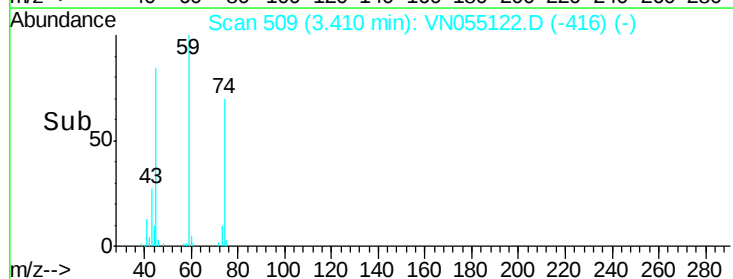
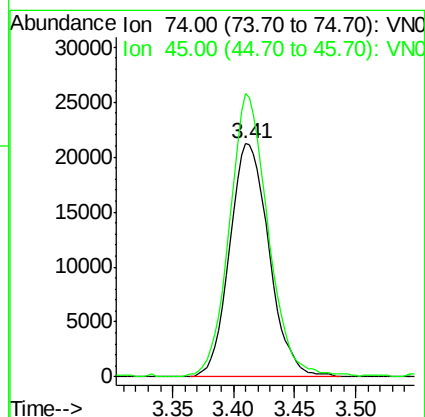
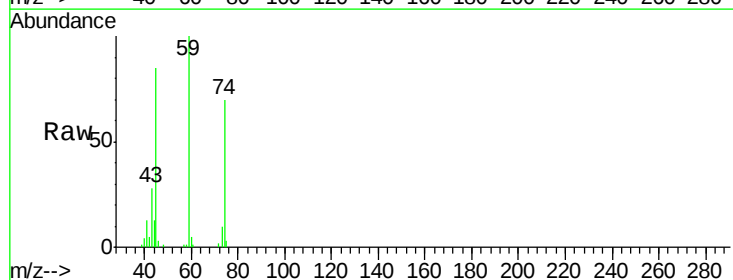
MMDadoda
4/19/2019 5:46:56 PM

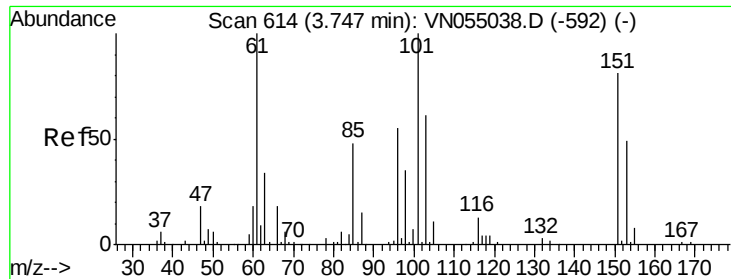


#8

Diethyl Ether
Concen: 23.743 ug/l
RT: 3.41 min Scan# 509
Delta R.T. 0.00 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Tgt Ion: 74 Resp: 47655
Ion Ratio Lower Upper
74 100
45 119.8 55.7 167.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.231 ug/l

RT: 3.76 min Scan# 617

Delta R.T. 0.01 min

Lab File: VN055122.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_N

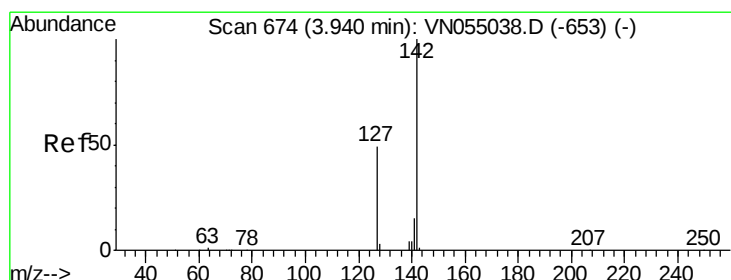
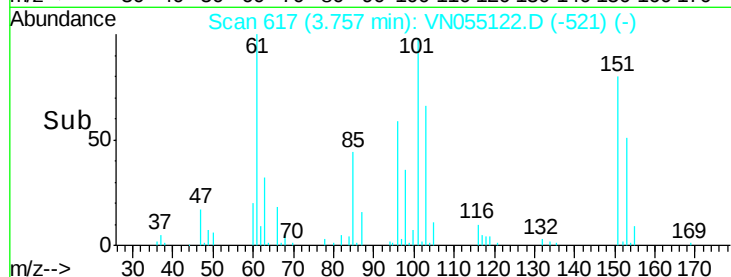
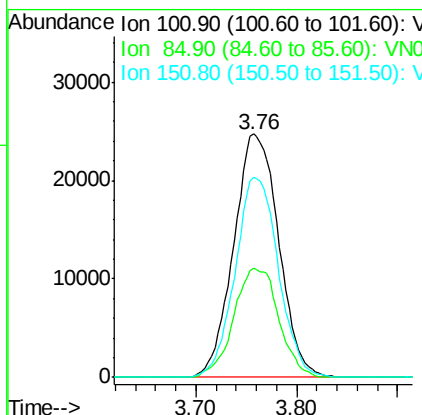
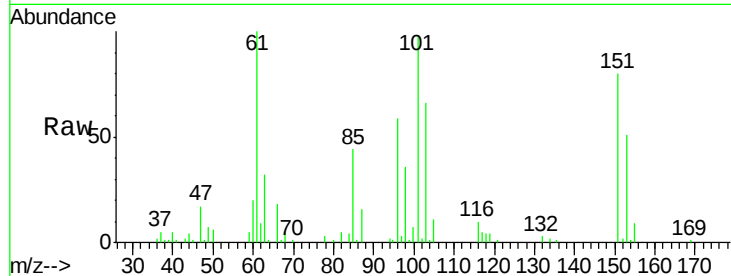
ClientSampleId :

VN0418MBS01

Tot Ion:	101	Resp:	76441
Ion Ratio	Lower	Upper	
101	100		
85	44.8	36.9	55.3
151	79.0	64.4	96.6

Manual Integrations
APPROVED

MMDadoda
4/19/2019 5:46:56 PM



#10

Methyl Iodide

Concen: 16.199 ug/l

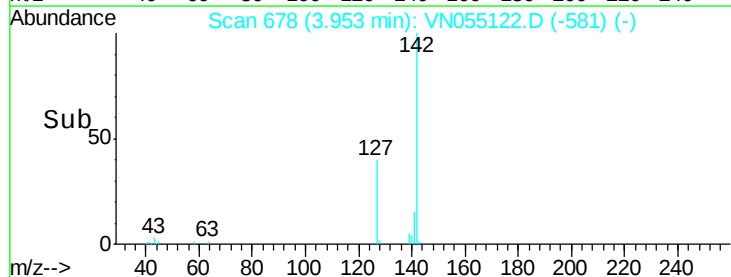
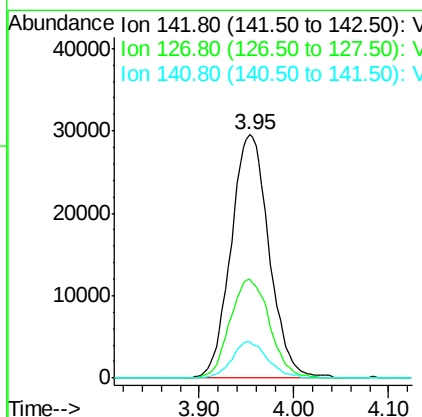
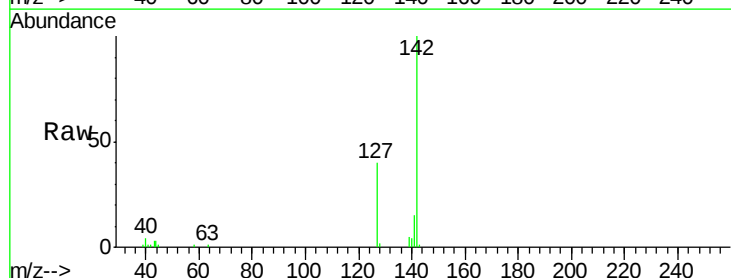
RT: 3.95 min Scan# 678

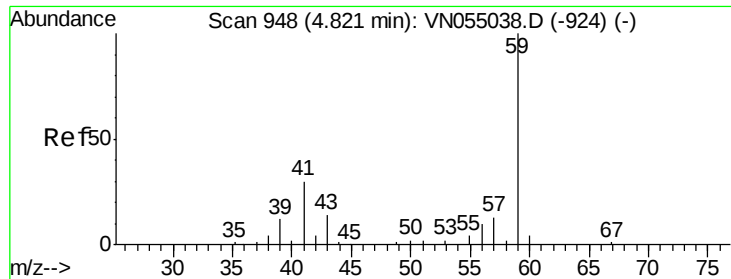
Delta R.T. 0.01 min

Lab File: VN055122.D

Acq: 18 Apr 2019 15:45

Tgt Ion:	142	Resp:	82715
Ion Ratio	Lower	Upper	
142	100		
127	42.1	37.9	56.9
141	14.1	11.8	17.8





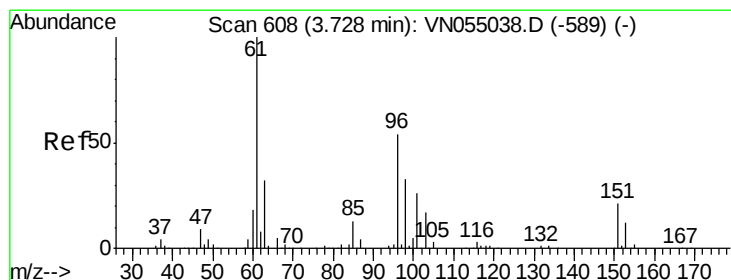
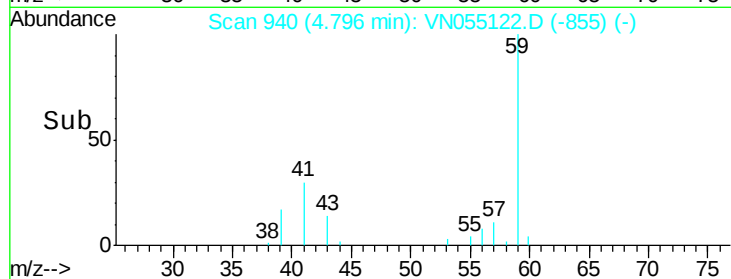
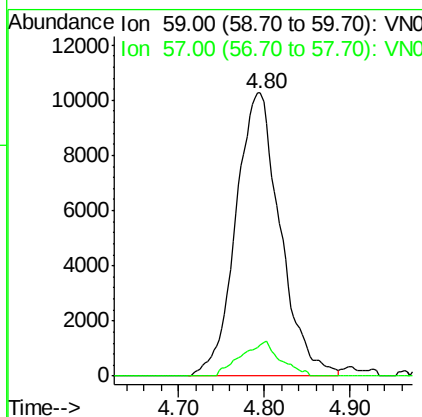
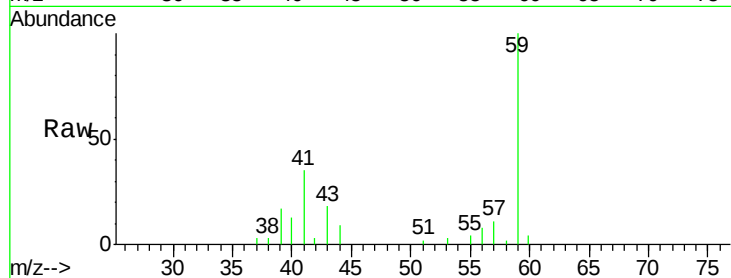
#11
Tert butyl alcohol
Concen: 125.239 ug/l
RT: 4.80 min Scan# 940
Delta R.T. -0.03 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Instrument :
MSVOA_N
ClientSampleId :
VN0418MBS01

Tot Ion	Ratio	Resp	Lower	Upper
59	100	36823		
57	10.8		8.3	12.5

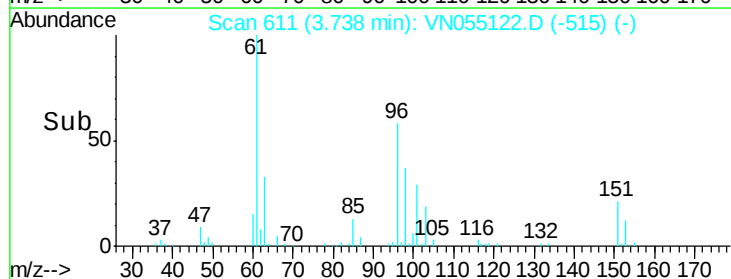
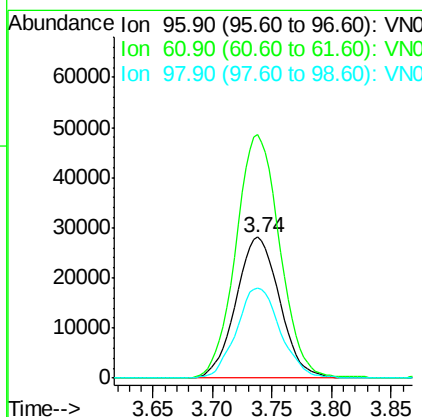
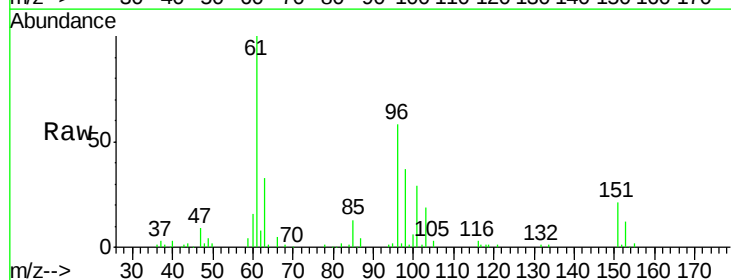
Manual Integrations
APPROVED

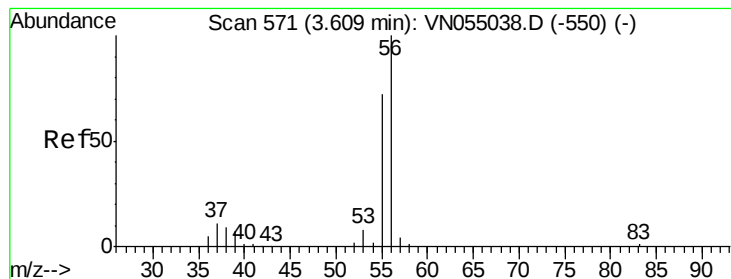
MMDadoda
4/19/2019 5:46:56 PM



#12
1,1-Dichloroethene
Concen: 22.335 ug/l
RT: 3.74 min Scan# 611
Delta R.T. 0.01 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	71537		
61	172.8		154.2	231.4
98	63.8		52.9	79.3





#13

Acrolein

Concen: 72.290 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN055122.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_N

ClientSampleId :

VN0418MBS01

Tot Ion: 56 Resp: 26272

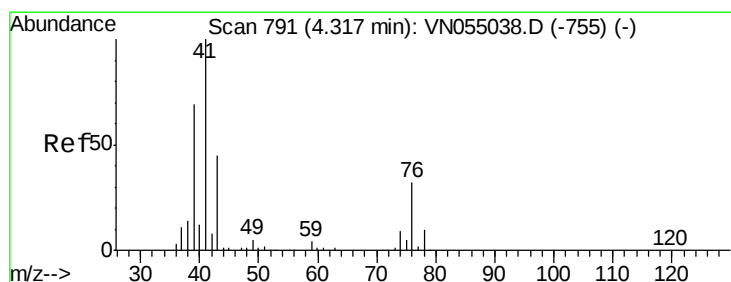
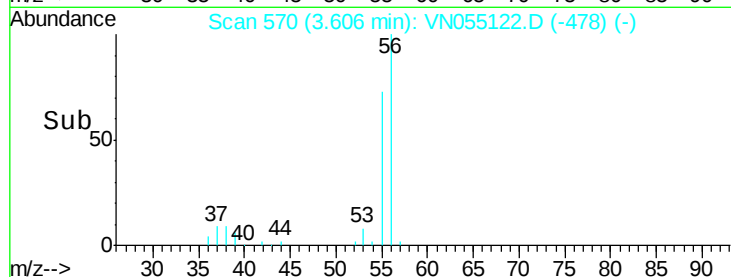
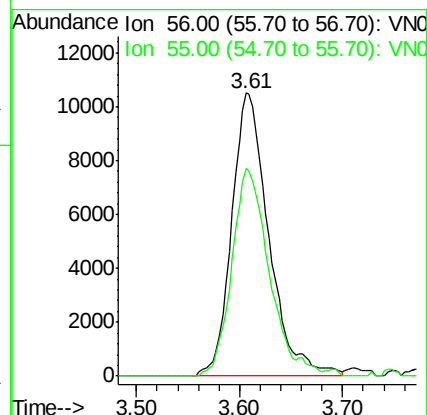
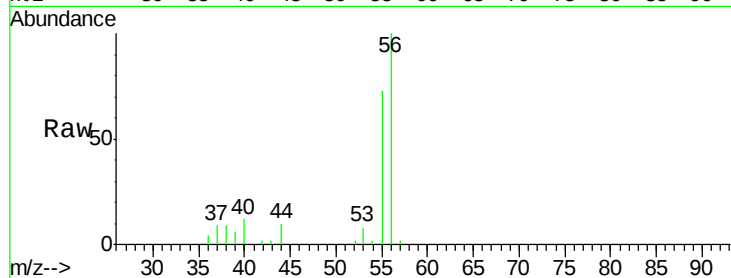
Ion Ratio Lower Upper

56 100

55 73.8 59.5 89.3

Manual Integrations
APPROVED

MMDadoda
4/19/2019 5:46:56 PM



#14

Allyl chloride

Concen: 18.851 ug/l

RT: 4.32 min Scan# 793

Delta R.T. 0.01 min

Lab File: VN055122.D

Acq: 18 Apr 2019 15:45

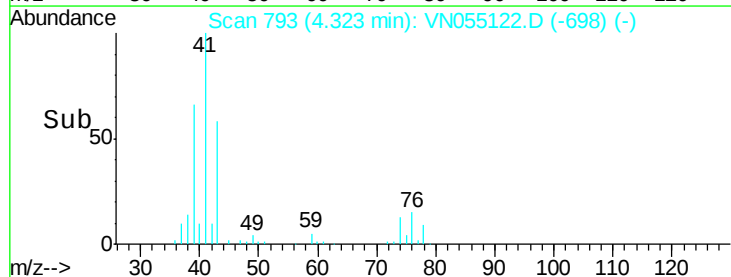
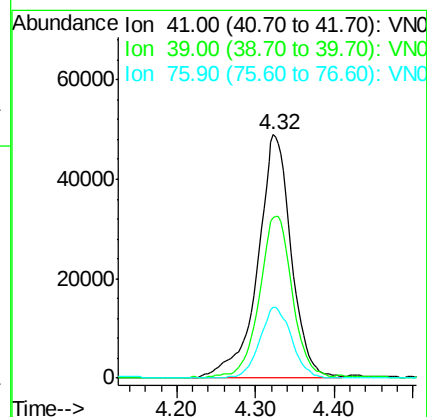
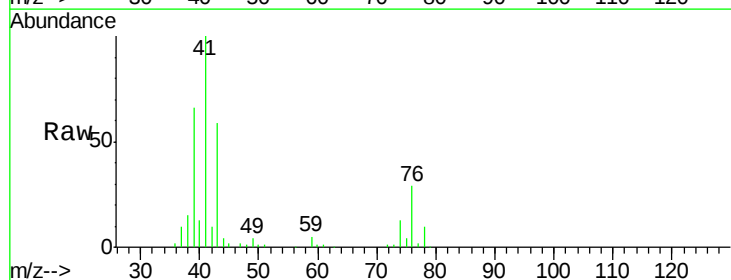
Tgt Ion: 41 Resp: 147793

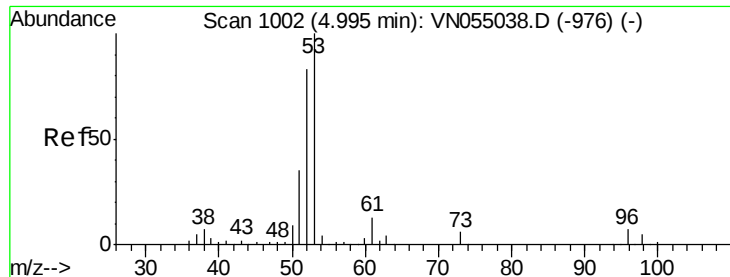
Ion Ratio Lower Upper

41 100

39 65.3 52.7 79.1

76 27.8 23.2 34.8





#15

Acrylonitrile

Concen: 105.144 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VN055122.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_N

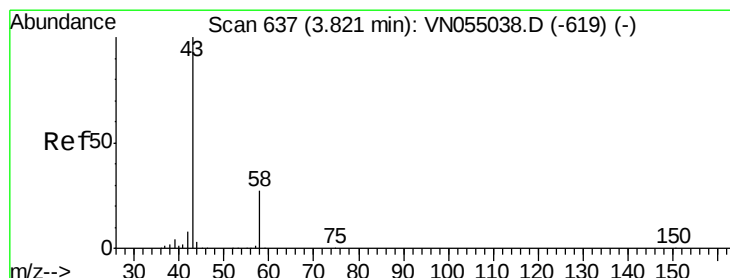
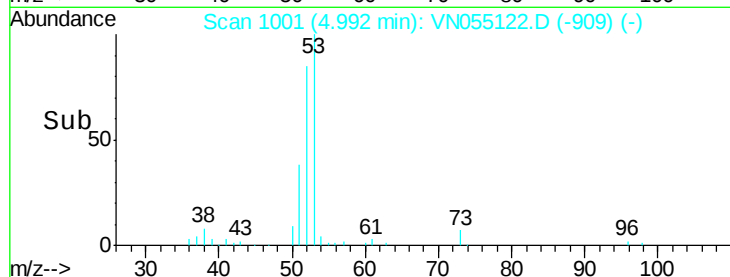
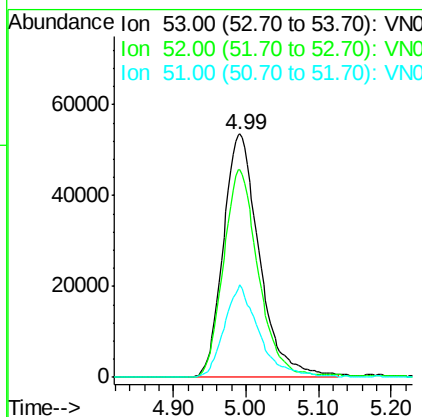
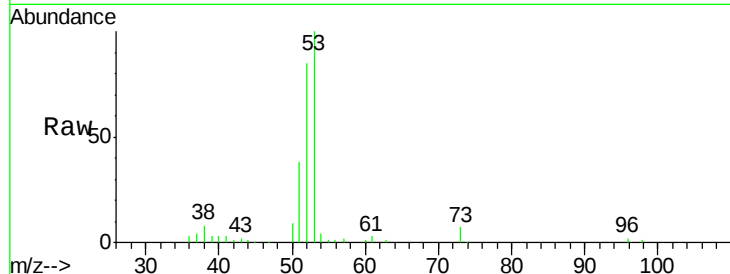
ClientSampleId :

VN0418MBS01

Tot Ion:	53	Resp:	184963
Ion Ratio	Lower	Upper	
53	100		
52	81.6	65.9	98.9
51	36.5	29.7	44.5

Manual Integrations
APPROVED

MMDadoda
4/19/2019 5:46:56 PM



#16

Acetone

Concen: 115.703 ug/l

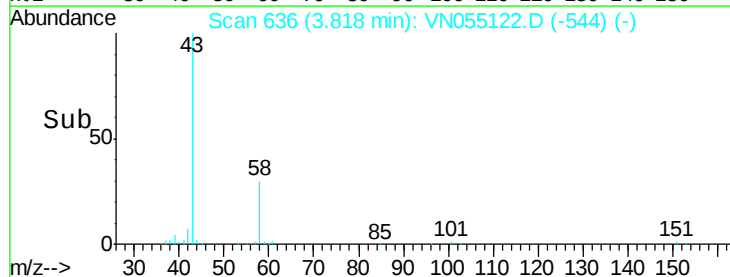
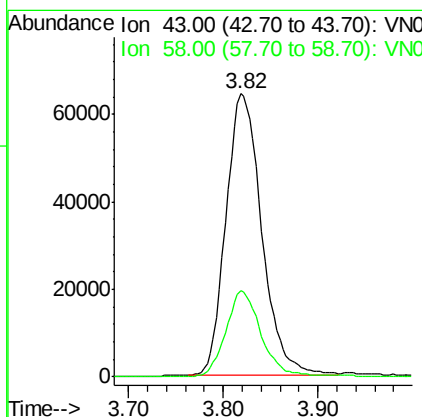
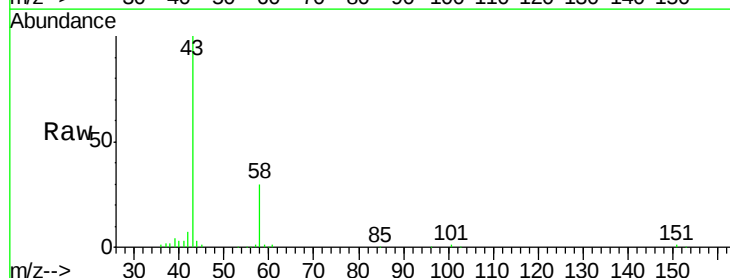
RT: 3.82 min Scan# 636

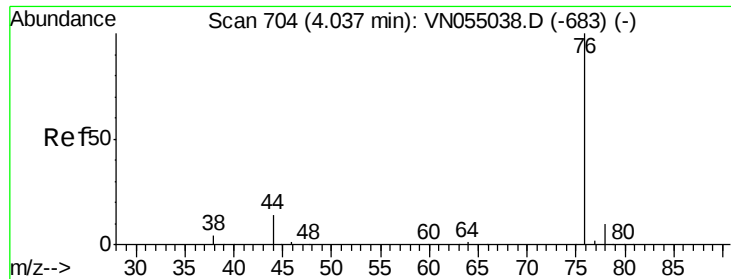
Delta R.T. -0.00 min

Lab File: VN055122.D

Acq: 18 Apr 2019 15:45

Tgt Ion:	43	Resp:	168451
Ion Ratio	Lower	Upper	
43	100		
58	30.6	20.9	31.3





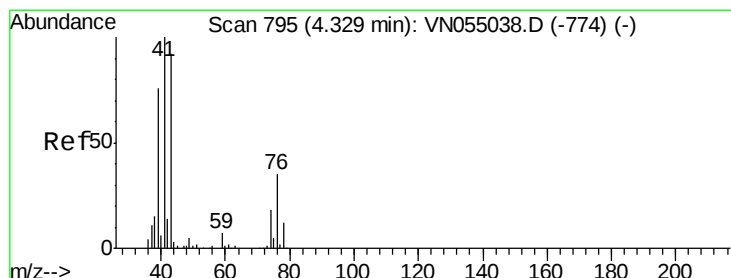
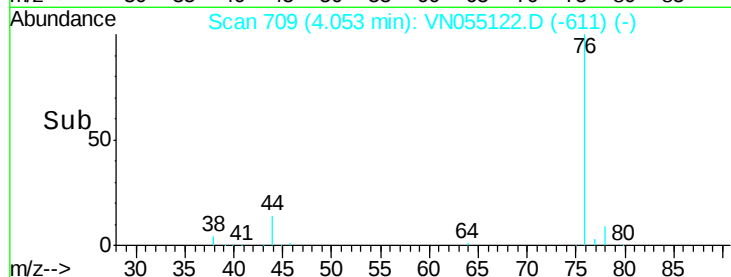
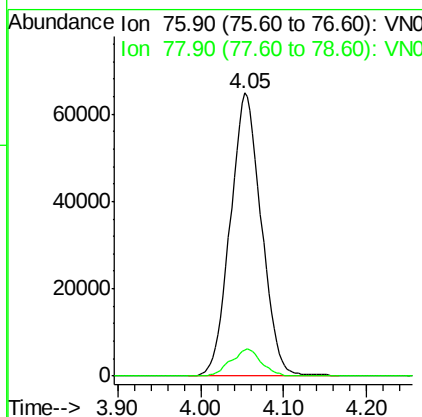
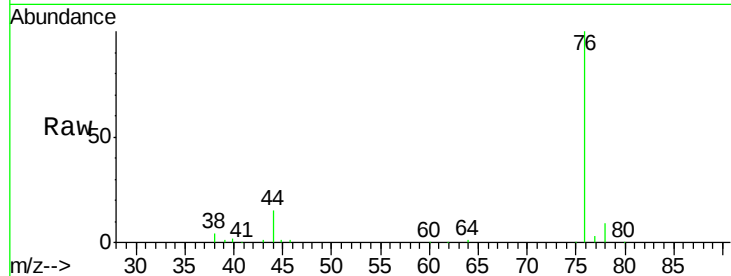
#17
Carbon Disulfide
Concen: 16.336 ug/l
RT: 4.05 min Scan# 709
Delta R.T. 0.02 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Instrument :
MSVOA_N
ClientSampleId :
VN0418MBS01

Tot Ion	Ratio	Resp	Lower	Upper
76	100	168903		
78	9.4	7.2	10.8	

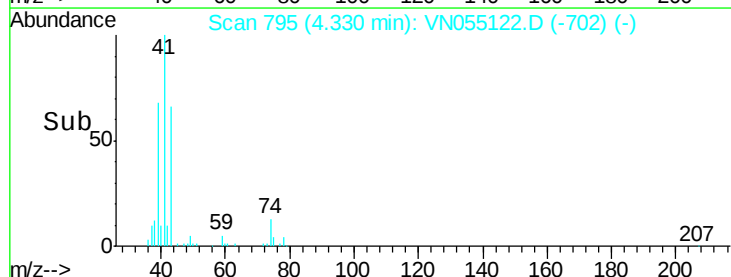
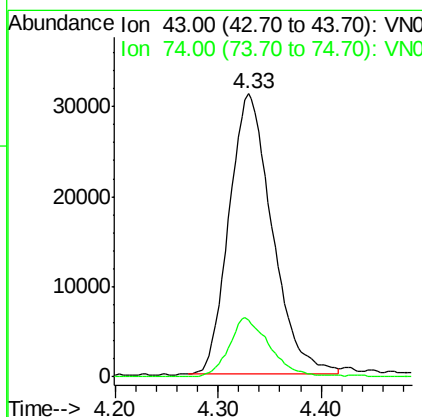
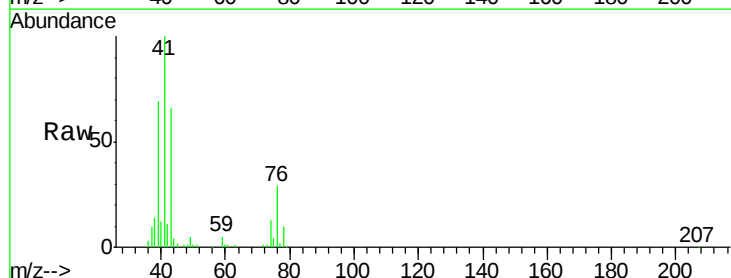
Manual Integrations
APPROVED

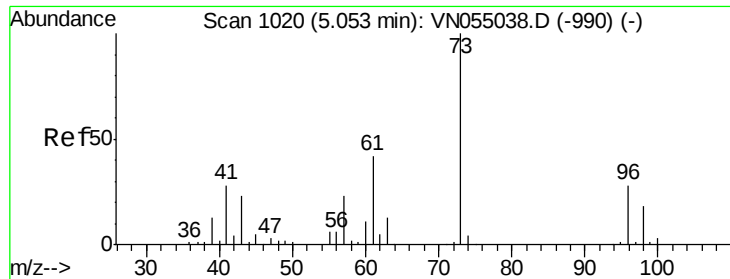
MMDadoda
4/19/2019 5:46:56 PM



#18
Methyl Acetate
Concen: 21.346 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	90622		
74	19.8	16.1	24.1	





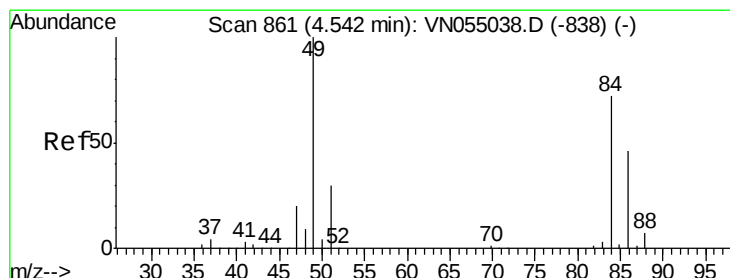
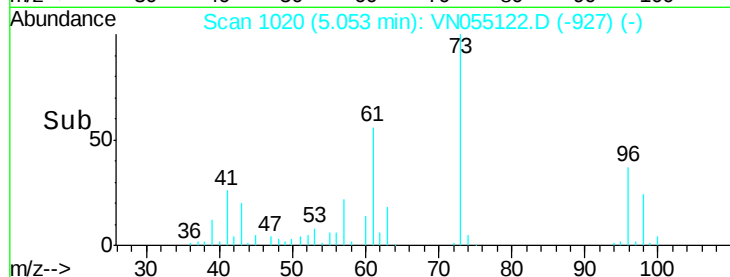
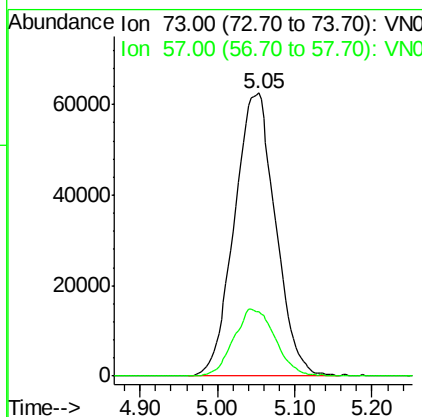
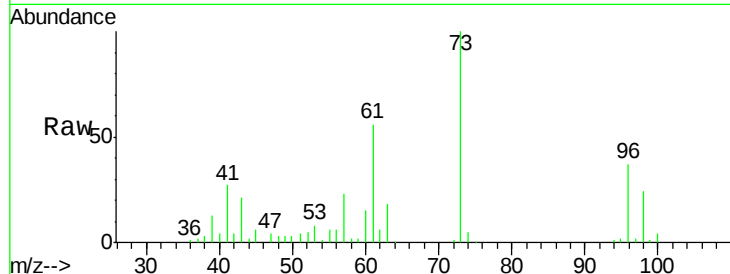
#19
Methvl tert-butvl Ether
Concen: 20.203 ug/l
RT: 5.05 min Scan# 1020
Delta R.T. 0.00 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Instrument :
MSVOA_N
ClientSampleId :
VN0418MBS01

Tot Ion: 73 Resp: 231475
Ion Ratio Lower Upper
73 100
57 22.6 19.0 28.4

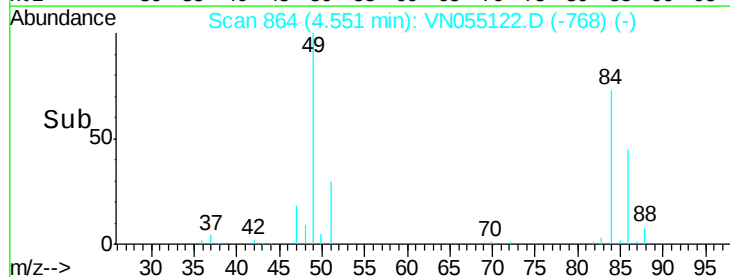
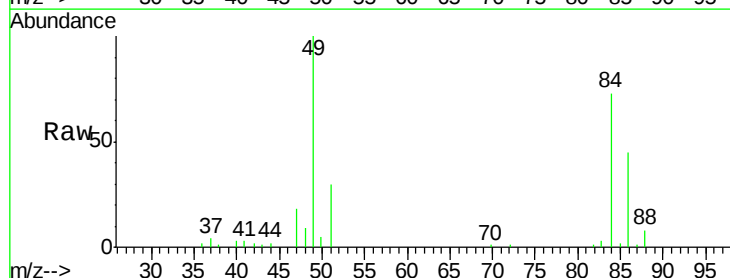
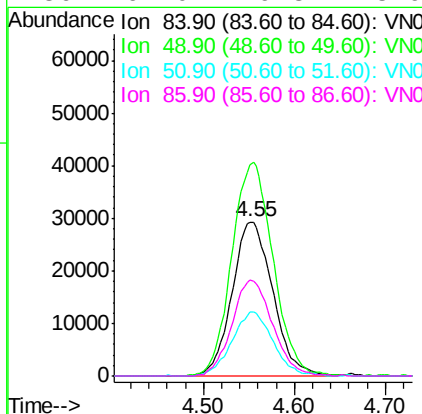
Manual Integrations
APPROVED

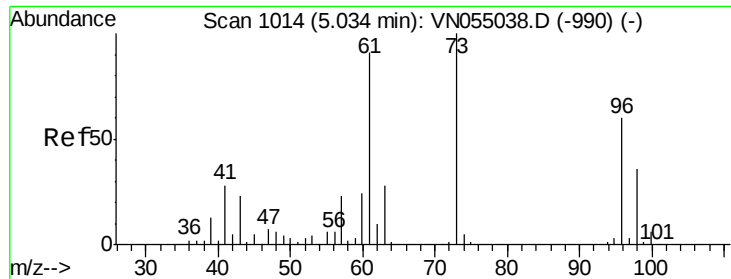
MMDadoda
4/19/2019 5:46:56 PM



#20
Methylene Chloride
Concen: 17.784 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.01 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Tgt Ion: 84 Resp: 91017
Ion Ratio Lower Upper
84 100
49 136.5 109.4 164.2
51 41.2 32.2 48.4
86 62.0 49.3 73.9





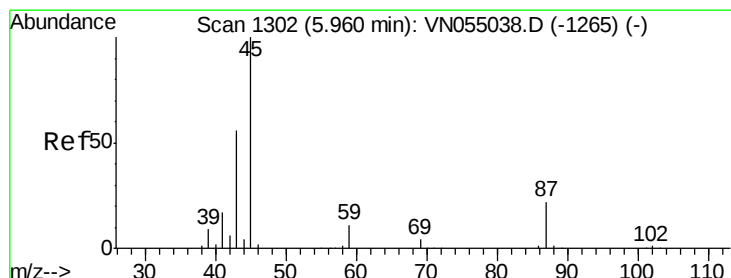
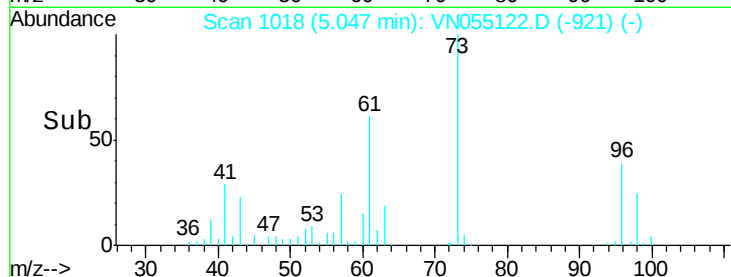
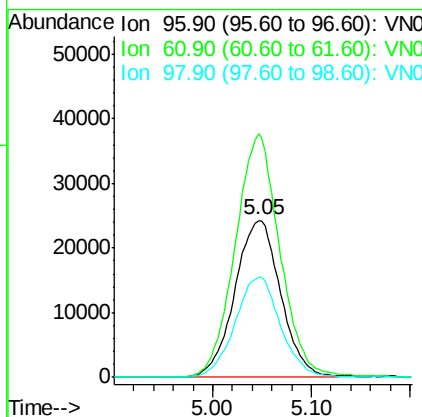
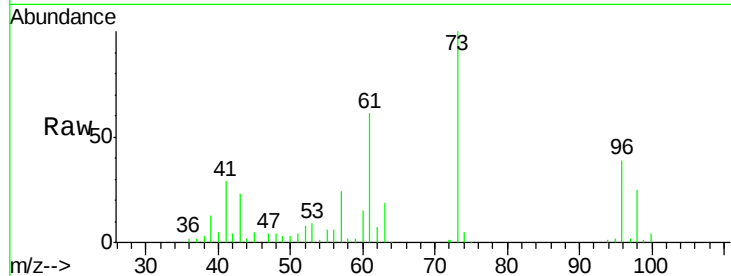
#21
trans-1,2-Dichloroethene
Concen: 18.007 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.01 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Instrument :
MSVOA_N
ClientSampleId :
VN0418MBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	154.3	114.9	172.3
98	63.6	48.4	72.6

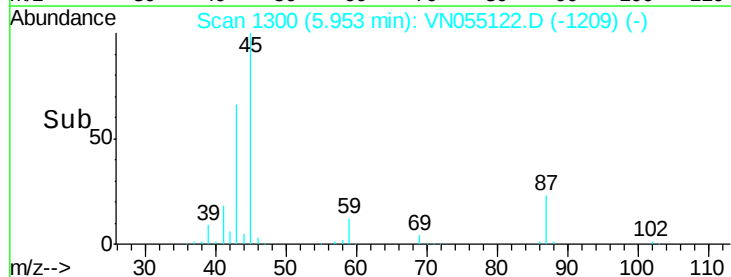
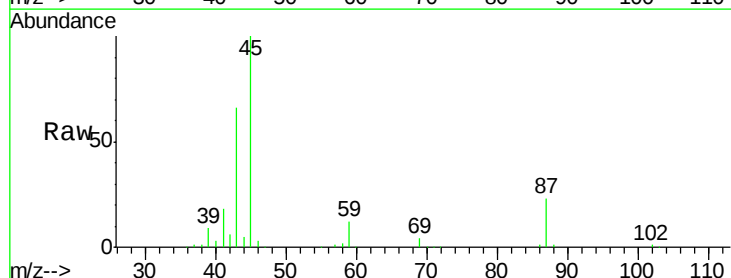
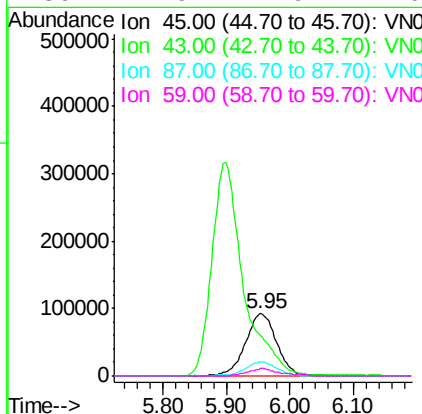
Manual Integrations
APPROVED

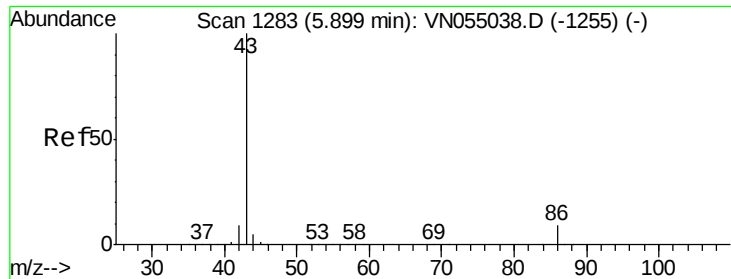
MMDadoda
4/19/2019 5:46:56 PM



#22
Diisopropyl ether
Concen: 19.673 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. -0.01 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Tgt Ion	Ratio	Lower	Upper
45	100		
43	64.0	44.8	67.2
87	22.9	18.9	28.3
59	11.9	7.9	11.9#





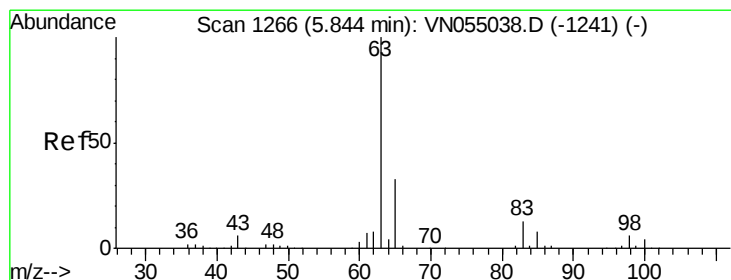
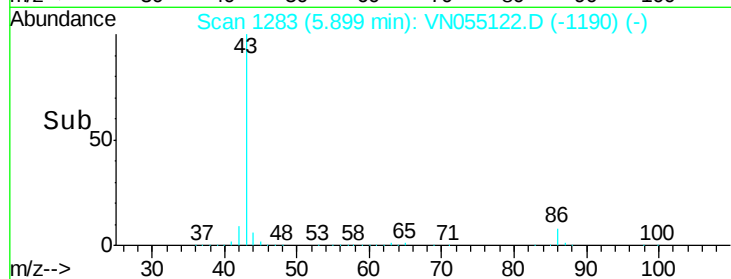
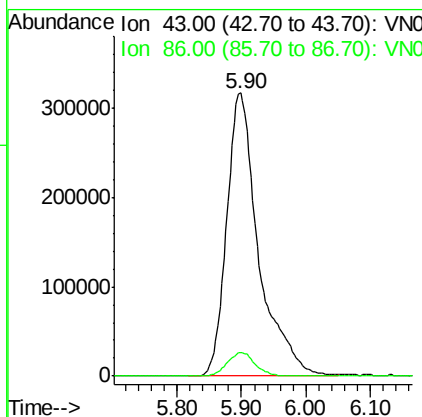
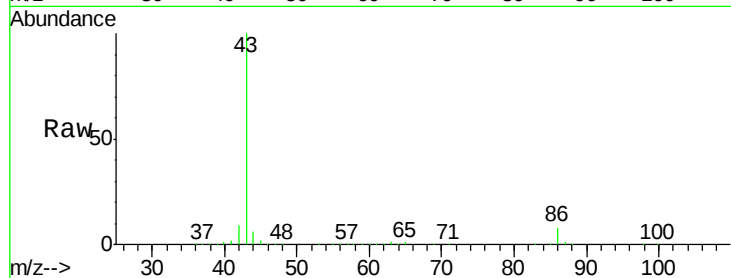
#23
 Vinyl Acetate
 Concen: 102.402 ug/l
 RT: 5.90 min Scan# 1283
 Delta R.T. 0.00 min
 Lab File: VN055122.D
 Acq: 18 Apr 2019 15:45

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0418MBS01

Tot Ion: 43 Resp: 1090885
 Ion Ratio Lower Upper
 43 100
 86 8.3 7.0 10.4

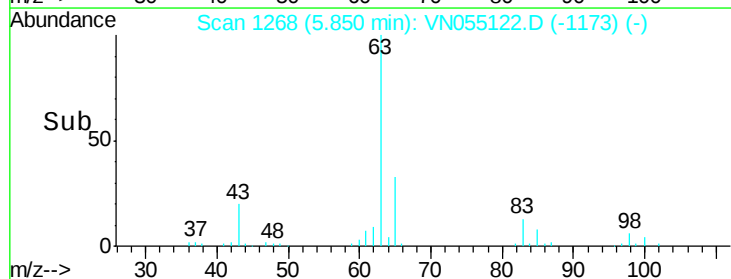
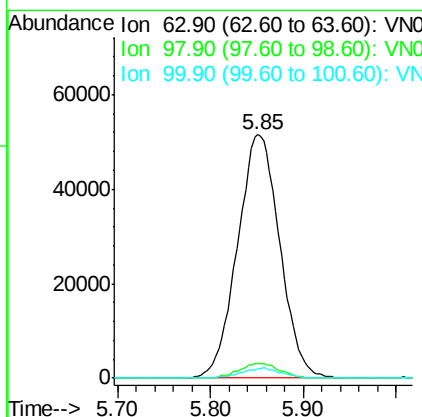
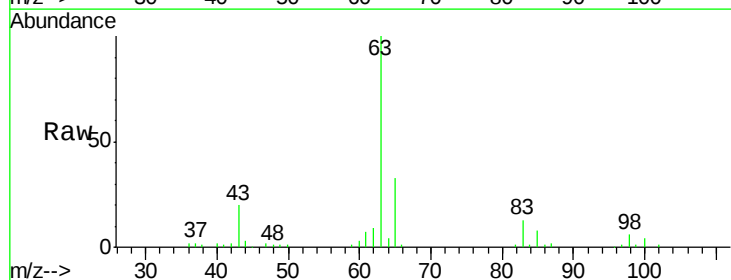
Manual Integrations
 APPROVED

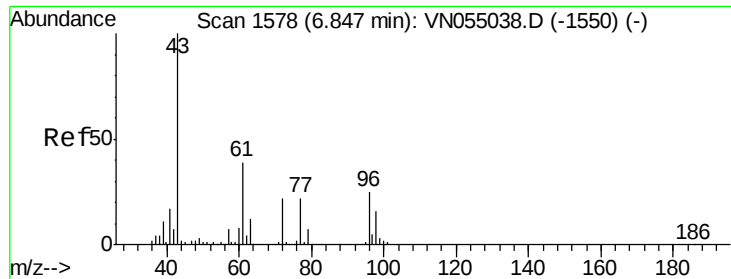
MMDadoda
 4/19/2019 5:46:56 PM



#24
 1,1-Dichloroethane
 Concen: 19.006 ug/l
 RT: 5.85 min Scan# 1268
 Delta R.T. 0.01 min
 Lab File: VN055122.D
 Acq: 18 Apr 2019 15:45

Tgt Ion: 63 Resp: 163118
 Ion Ratio Lower Upper
 63 100
 98 6.1 2.8 8.4
 100 3.7 2.0 5.8





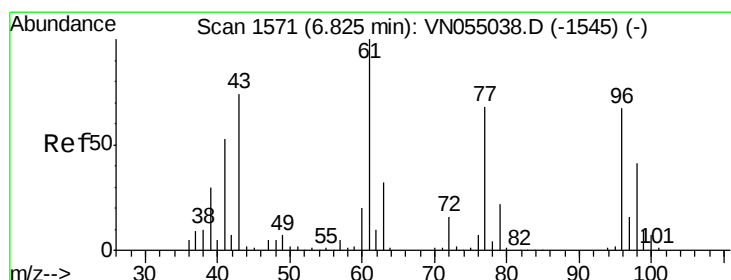
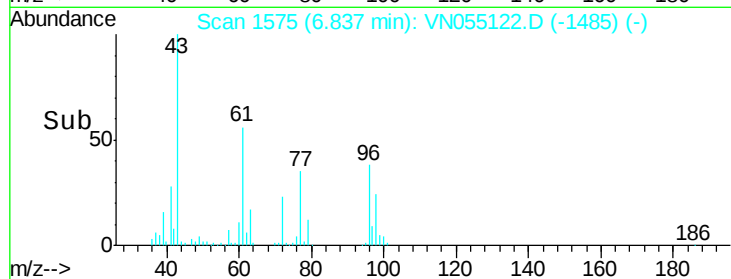
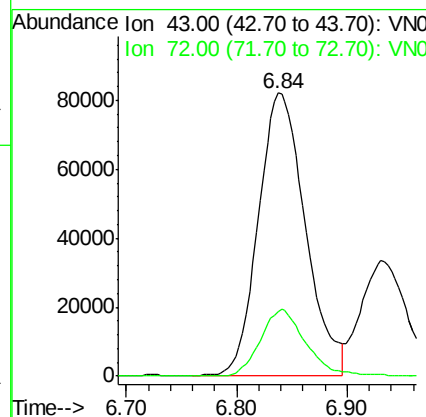
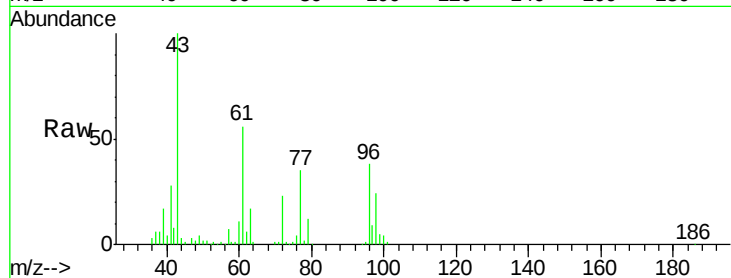
#25
2-Butanone
Concen: 111.362 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. -0.01 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Instrument :
MSVOA_N
ClientSampleId :
VN0418MBS01

Tot Ion: 43 Resp: 241980
Ion Ratio Lower Upper
43 100
72 22.8 18.1 27.1

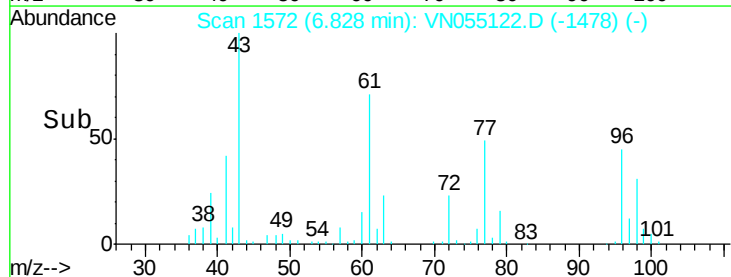
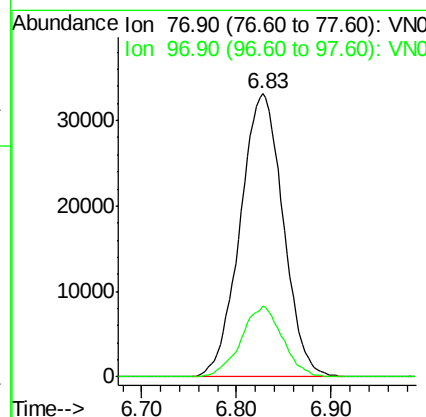
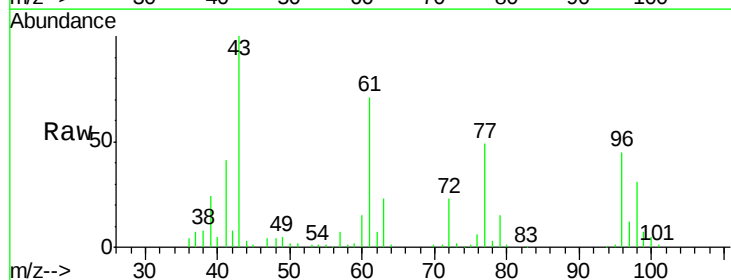
Manual Integrations
APPROVED

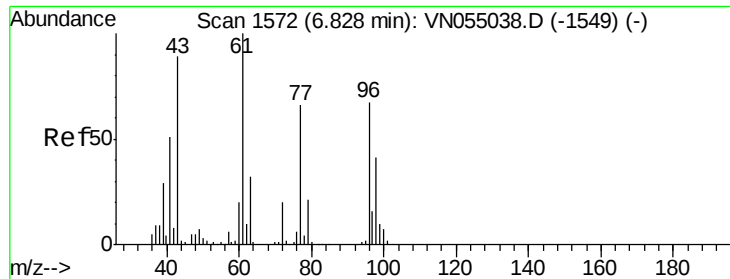
MMDadoda
4/19/2019 5:46:56 PM



#26
2,2-Dichloropropane
Concen: 19.297 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Tgt Ion: 77 Resp: 104531
Ion Ratio Lower Upper
77 100
97 24.0 11.3 33.9





#27

cis-1,2-Dichloroethene

Concen: 19.282 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.01 min

Lab File: VN055122.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_N

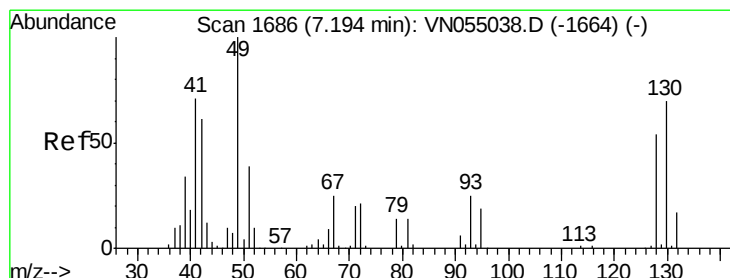
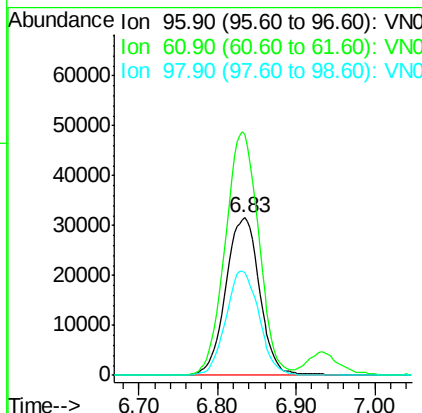
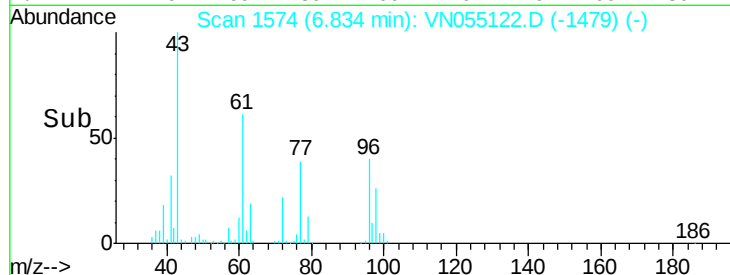
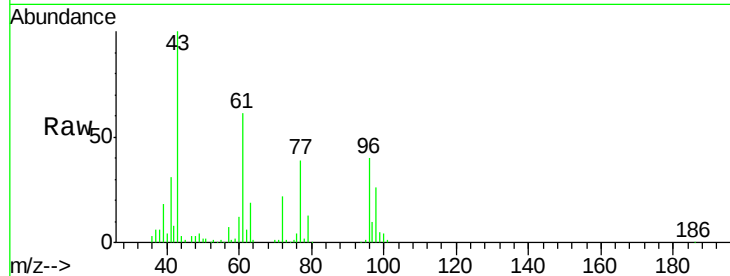
ClientSampleId :

VN0418MBS01

Tot Ion:	96	Resp:	94501
Ion	Ratio	Lower	Upper
96	100		
61	152.7	0.0	311.0
98	64.5	0.0	127.4

Manual Integrations
APPROVED

MMDadoda
4/19/2019 5:46:56 PM



#28

Bromochloromethane

Concen: 19.854 ug/l

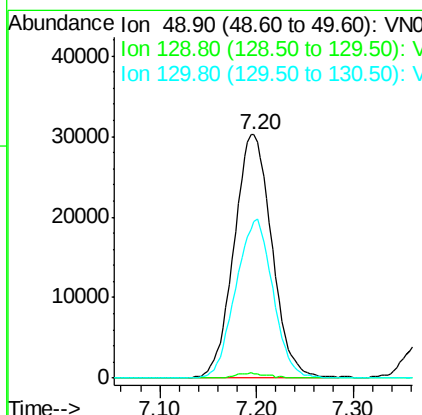
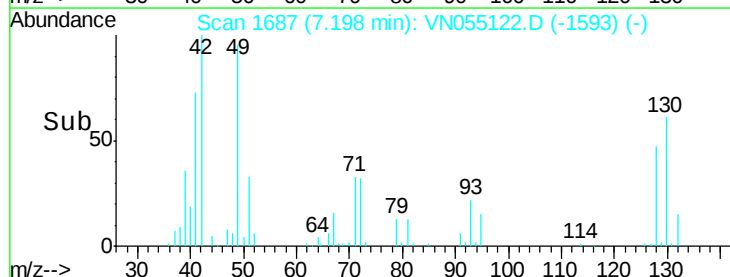
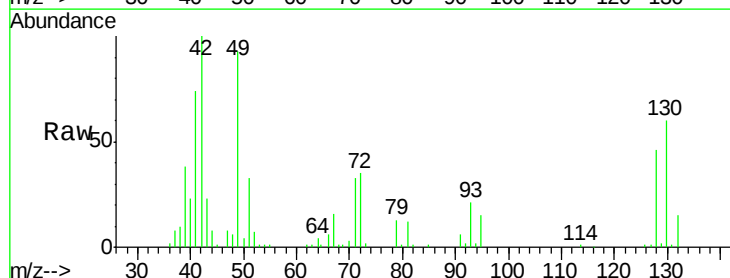
RT: 7.20 min Scan# 1687

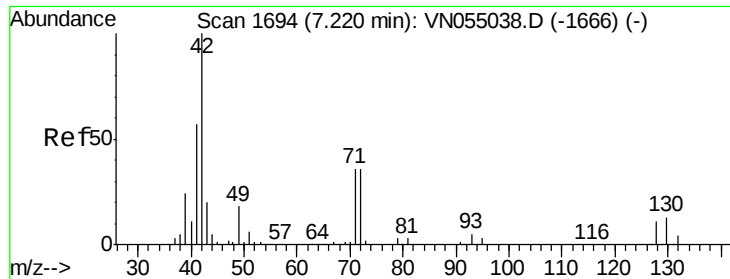
Delta R.T. 0.00 min

Lab File: VN055122.D

Acq: 18 Apr 2019 15:45

Tgt Ion:	49	Resp:	82141
Ion	Ratio	Lower	Upper
49	100		
129	1.5	0.0	2.0
130	64.1	53.4	80.2





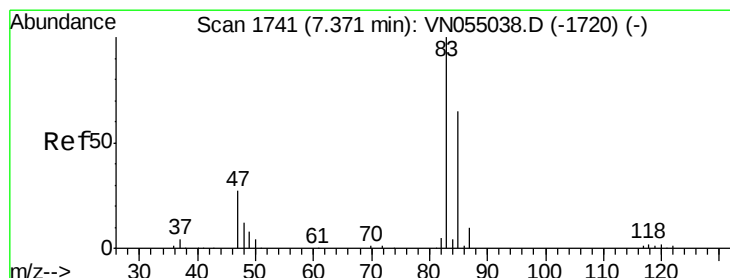
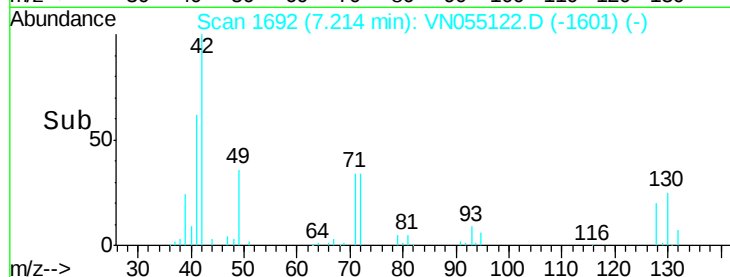
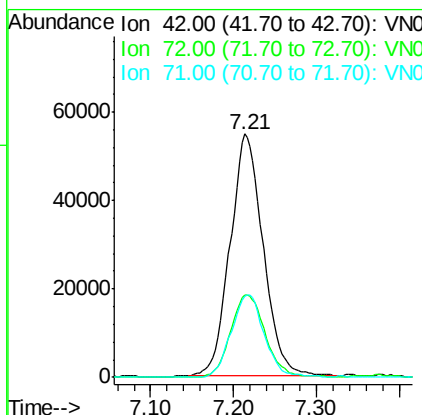
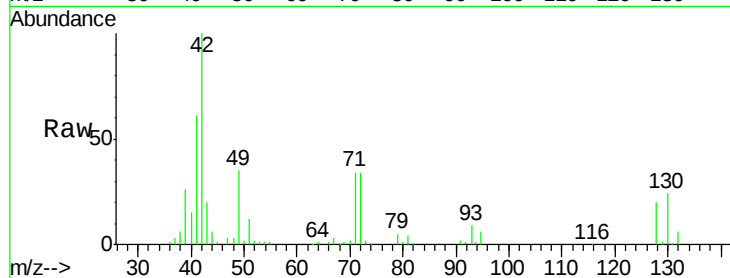
#29
Tetrahydrofuran
Concen: 106.768 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. -0.01 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Instrument :
MSVOA_N
ClientSampleId :
VN0418MBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	35.6	29.4	44.0
71	34.0	27.8	41.6

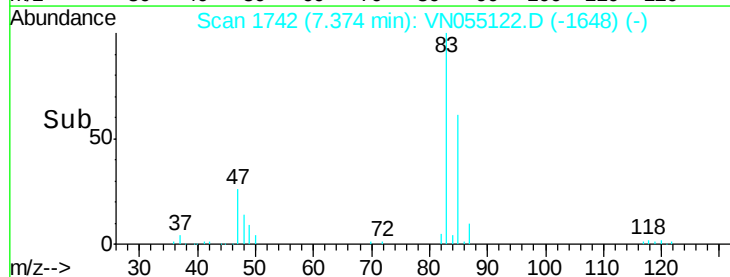
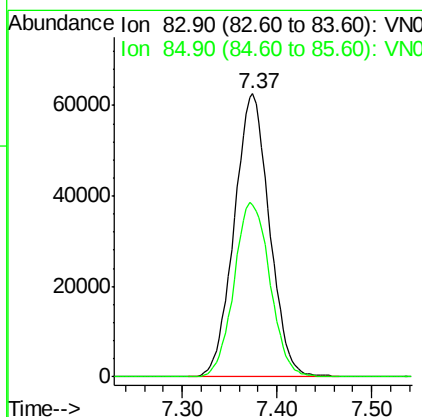
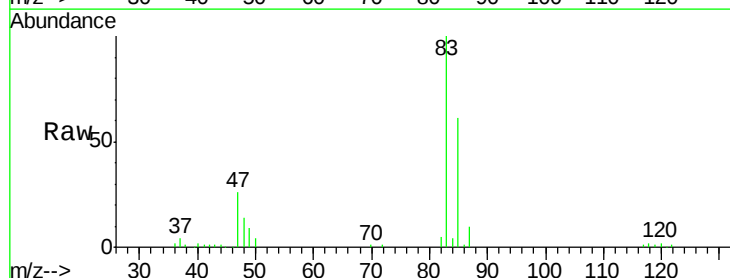
Manual Integrations
APPROVED

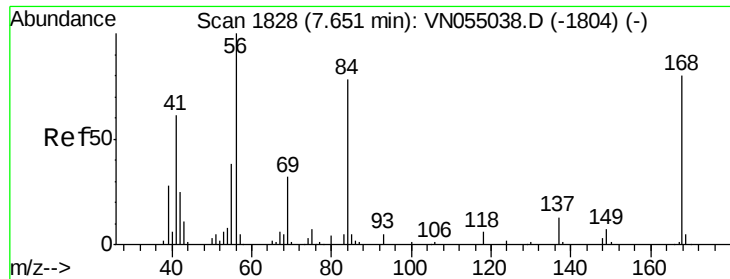
MMDadoda
4/19/2019 5:46:56 PM



#30
Chloroform
Concen: 19.435 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.0	51.8	77.6





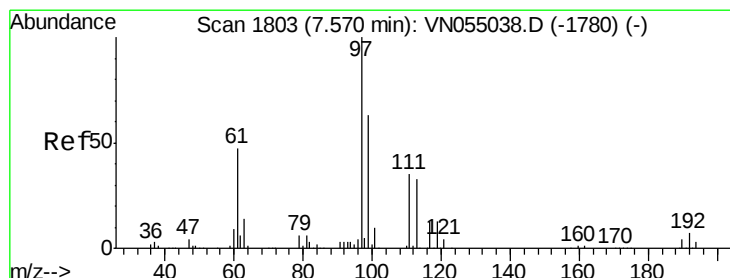
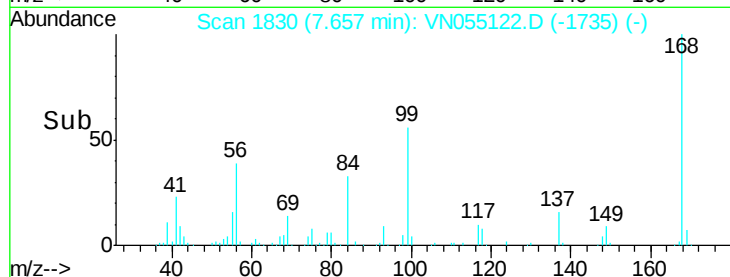
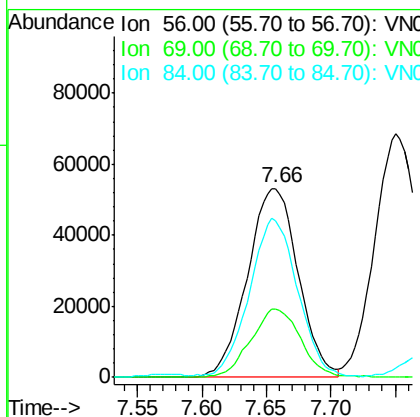
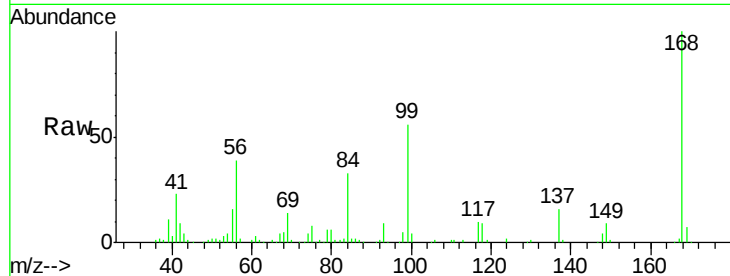
#31
Cyclohexane
Concen: 18.420 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Instrument :
MSVOA_N
ClientSampled :
VN0418MBS01

Tot Ion	56	Resp	145761
Ion Ratio	Lower	Upper	
56	100		
69	36.5	24.5	36.7
84	82.1	62.9	94.3

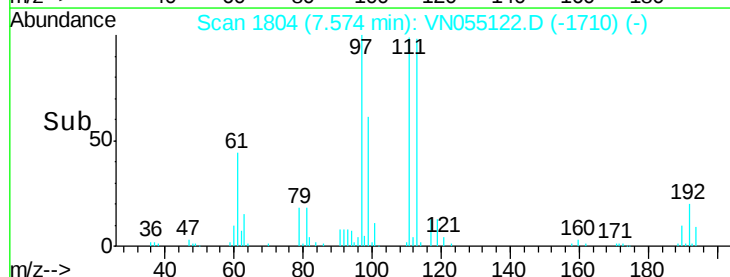
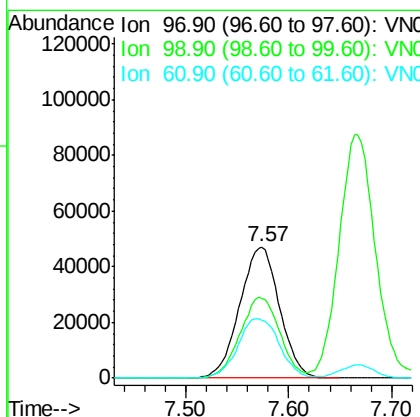
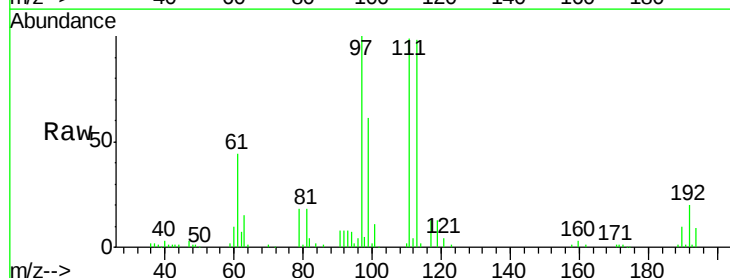
Manual Integrations
APPROVED

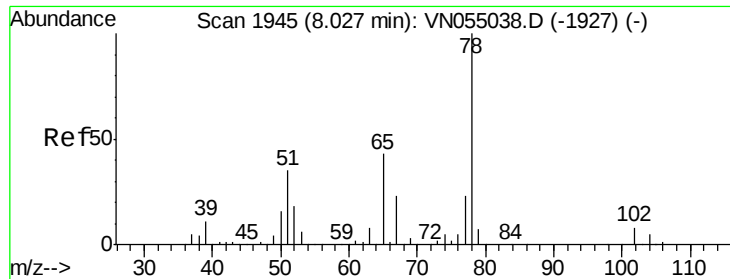
MMDadoda
4/19/2019 5:46:56 PM



#32
1,1,1-Trichloroethane
Concen: 19.111 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Tgt Ion	97	Resp	126229
Ion Ratio	Lower	Upper	
97	100		
99	61.9	51.6	77.4
61	47.3	38.3	57.5





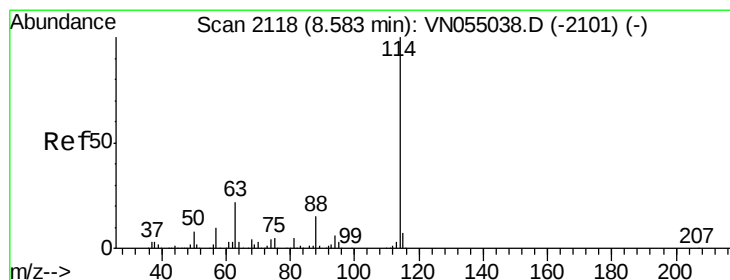
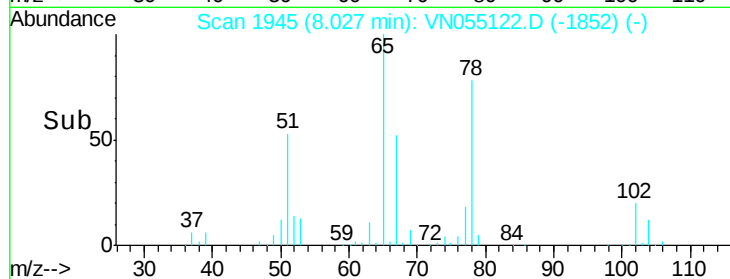
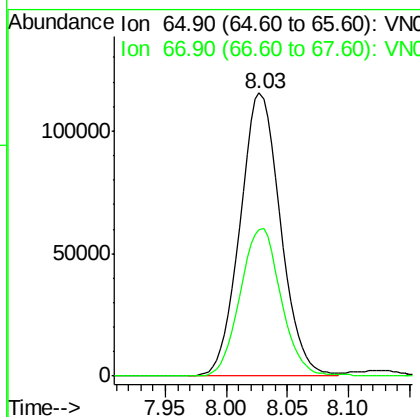
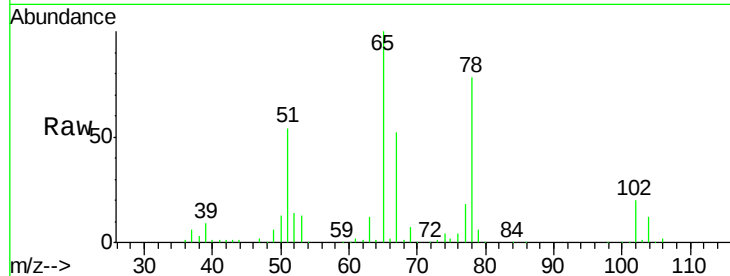
#33
 1,2-Dichloroethane-d4
 Concen: 49.404 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055122.D
 Acq: 18 Apr 2019 15:45

Instrument :
 MSVOA_N
 ClientSampled :
 VN0418MBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	265005		
67	52.8	0.0	106.4	

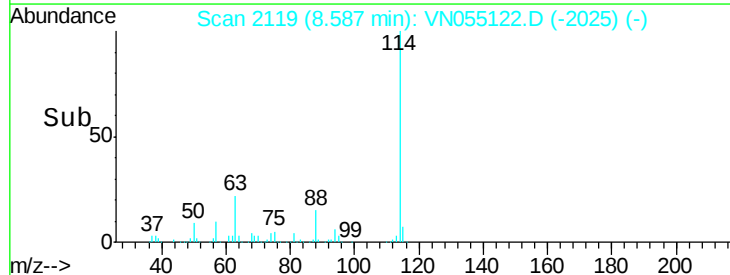
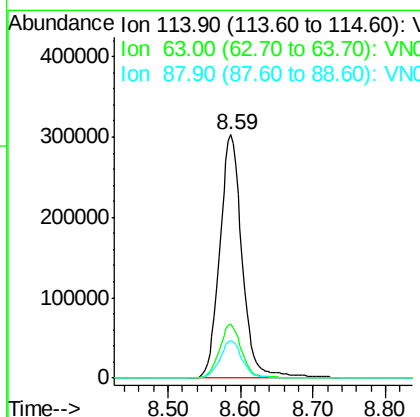
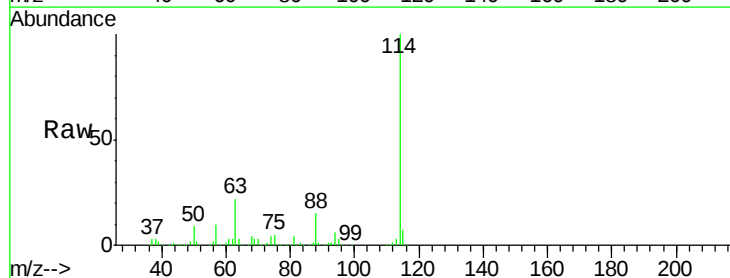
Manual Integrations
 APPROVED

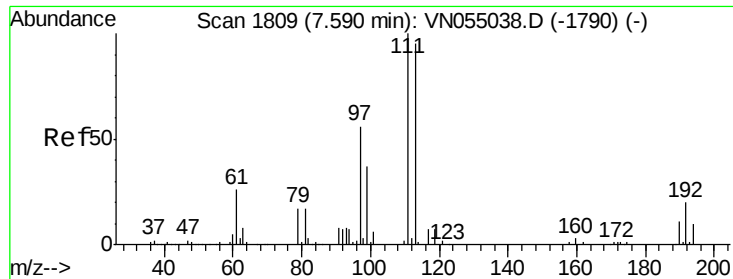
MMDadoda
 4/19/2019 5:46:56 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055122.D
 Acq: 18 Apr 2019 15:45

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	649595		
63	22.0	0.0	45.2	
88	15.4	0.0	31.8	





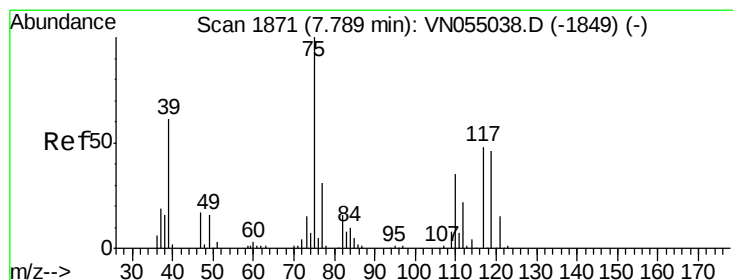
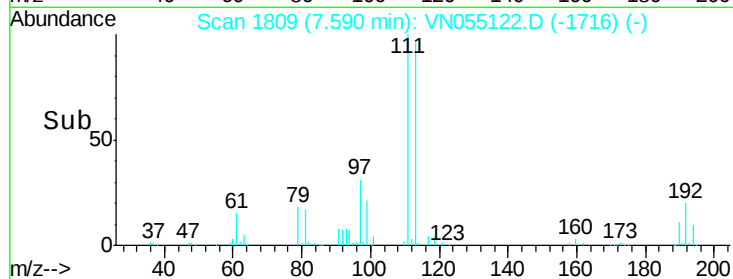
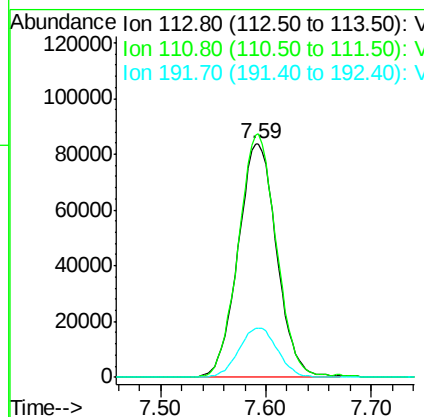
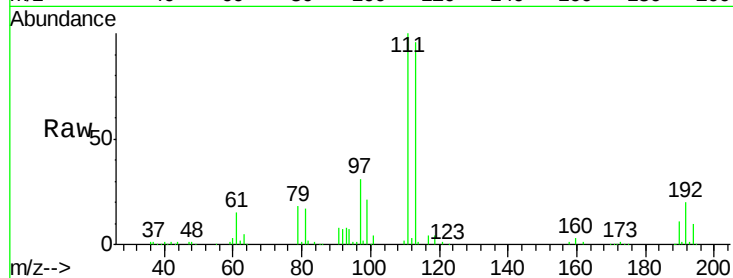
#35
Dibromofluoromethane
Concen: 49.172 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Instrument :
MSVOA_N
ClientSampleId :
VN0418MBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	102.4	82.1	123.1	
192	21.1	16.5	24.7	

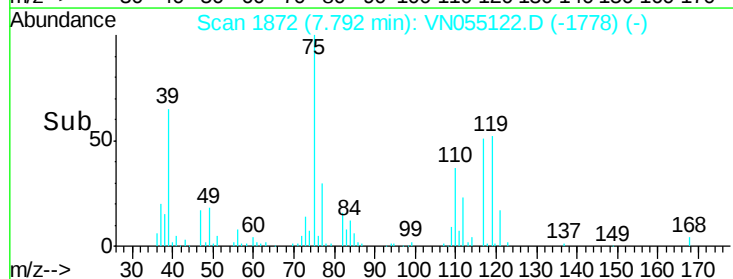
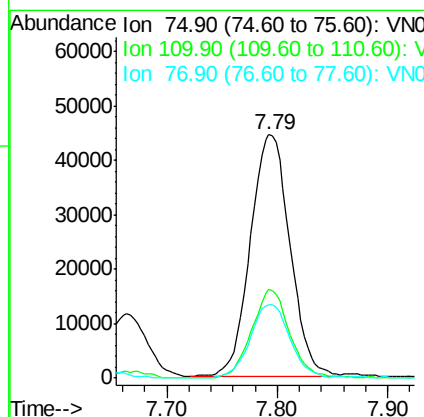
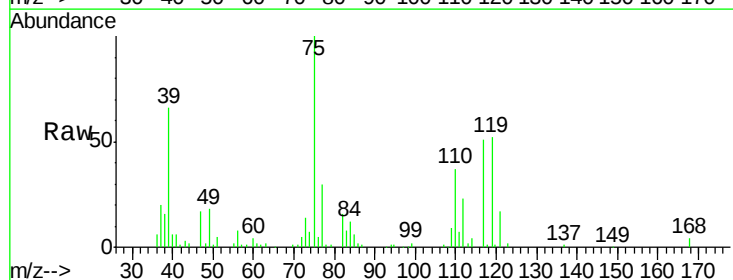
Manual Integrations
APPROVED

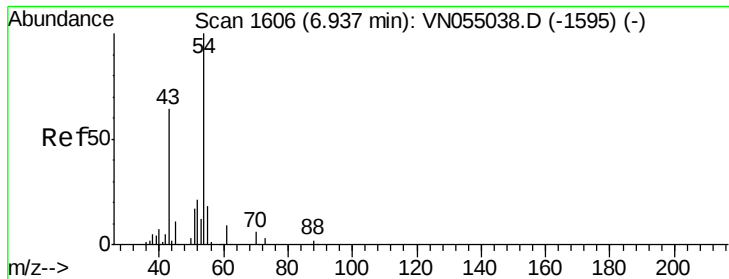
MMDadoda
4/19/2019 5:46:56 PM



#36
1,1-Dichloropropene
Concen: 17.972 ug/l
RT: 7.79 min Scan# 1872
Delta R.T. 0.00 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	35.2	17.5	52.5	
77	30.8	24.9	37.3	





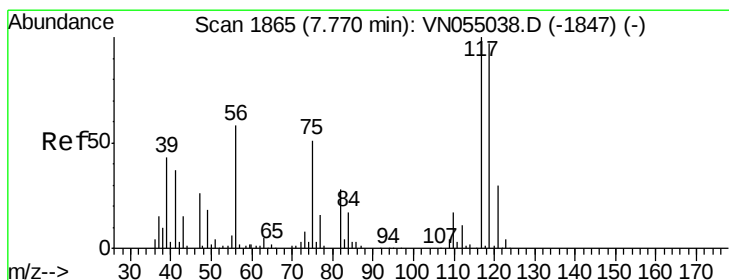
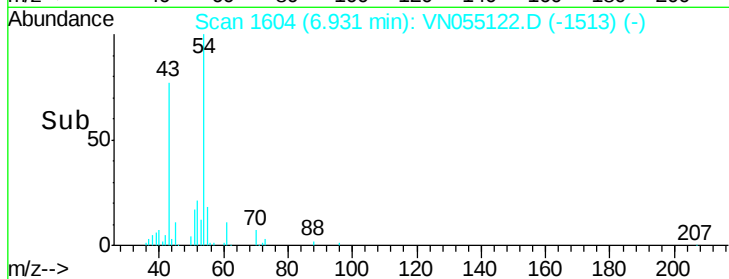
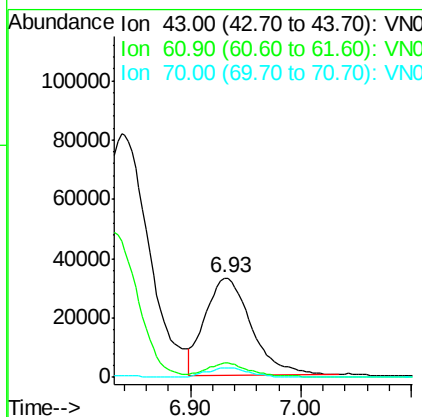
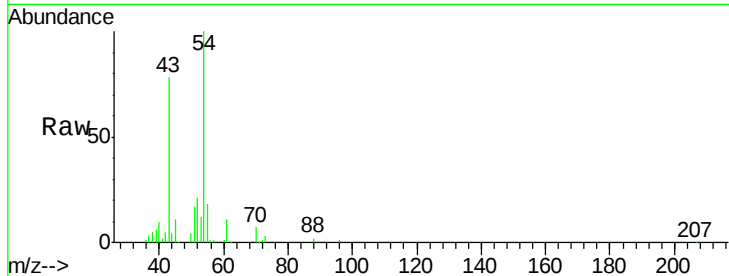
#37
Ethyl Acetate
Concen: 19.131 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. -0.01 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Instrument :
MSVOA_N
ClientSampleId :
VN0418MBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.3	10.0	15.0
70	9.1	7.1	10.7

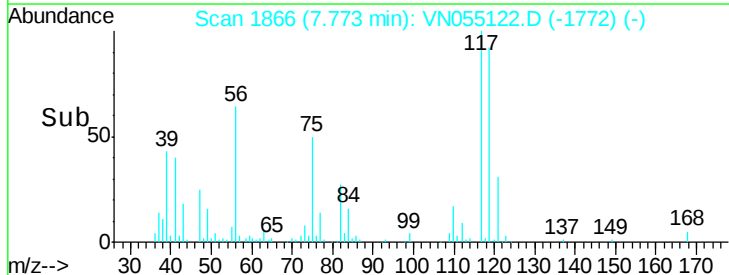
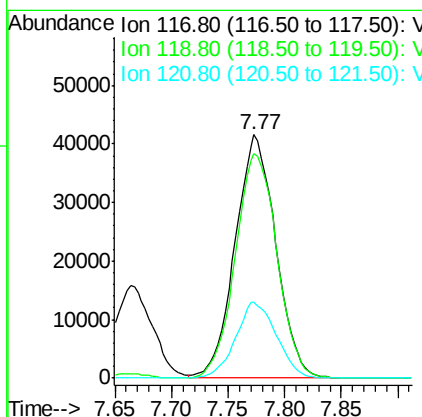
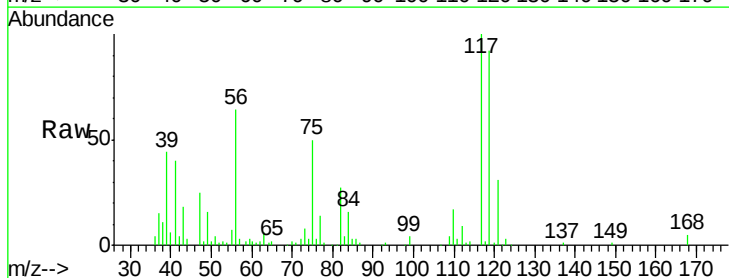
Manual Integrations
APPROVED

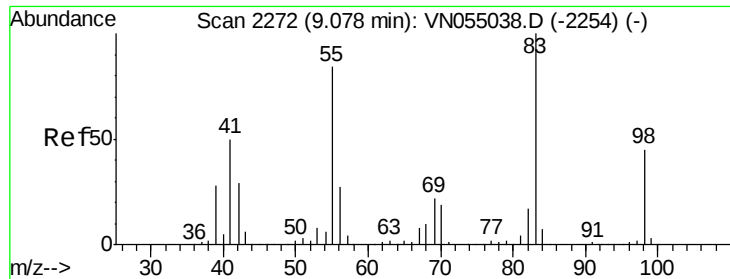
MMDadoda
4/19/2019 5:46:56 PM



#38
Carbon Tetrachloride
Concen: 17.868 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Tgt Ion	Ratio	Lower	Upper
117	100		
119	92.4	76.3	114.5
121	31.4	23.9	35.9





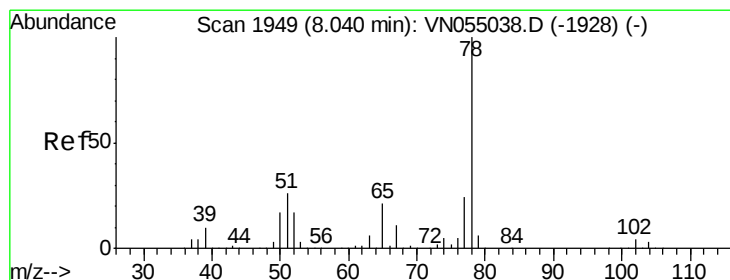
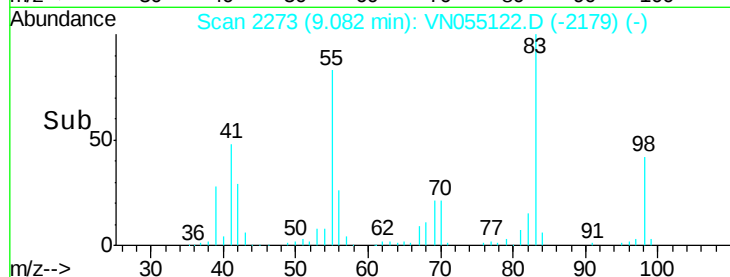
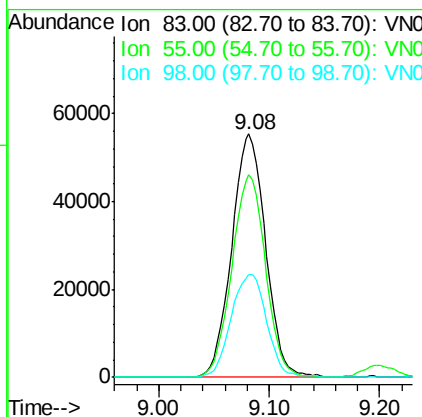
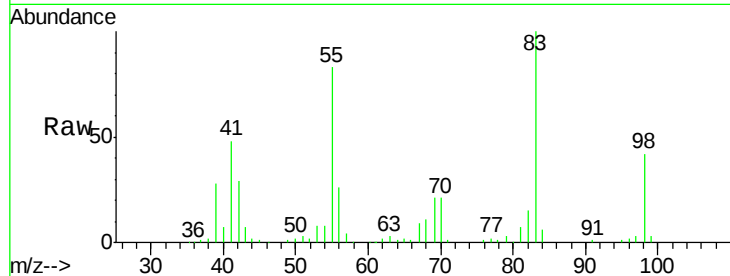
#39
Methvlcvclohexane
Concen: 17.753 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Instrument :
MSVOA_N
ClientSampleId :
VN0418MBS01

Tot Ion	83.00	Resp	117807
Ion	Ratio	Lower	Upper
83	100		
55	83.3	67.0	100.4
98	42.1	35.6	53.4

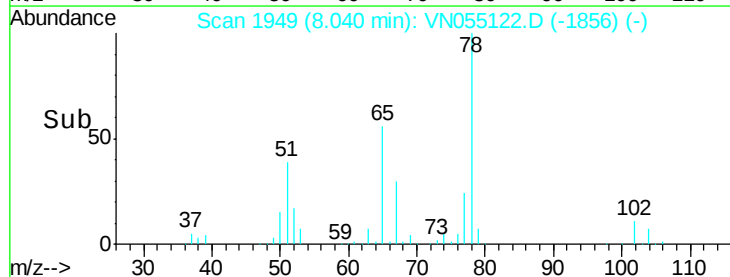
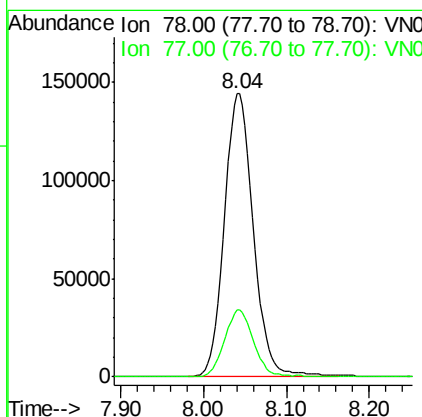
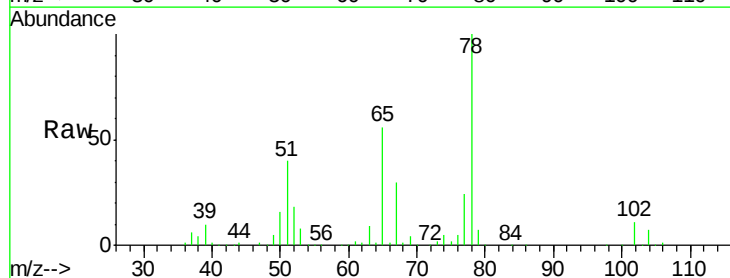
Manual Integrations
APPROVED

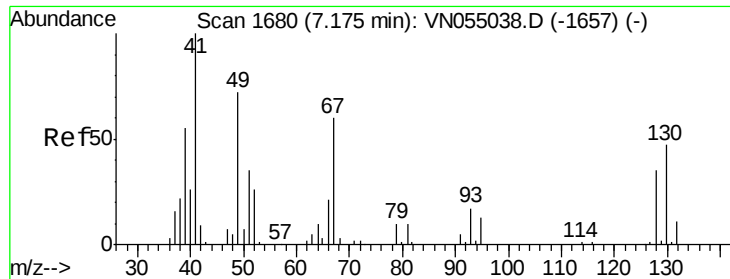
MMDadoda
4/19/2019 5:46:56 PM



#40
Benzene
Concen: 19.025 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Tgt Ion	78.00	Resp	351117
Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.8	28.2





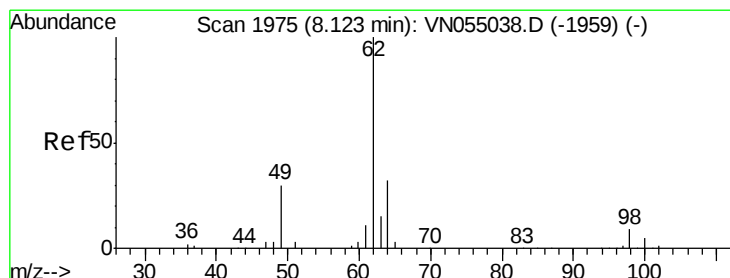
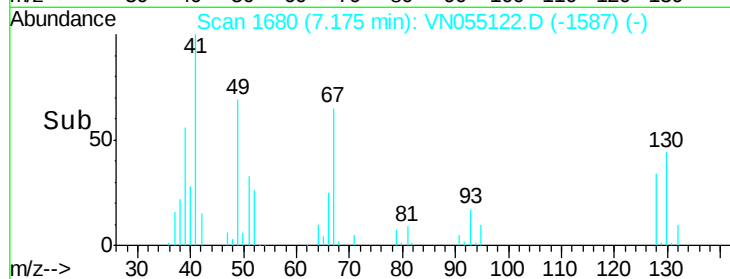
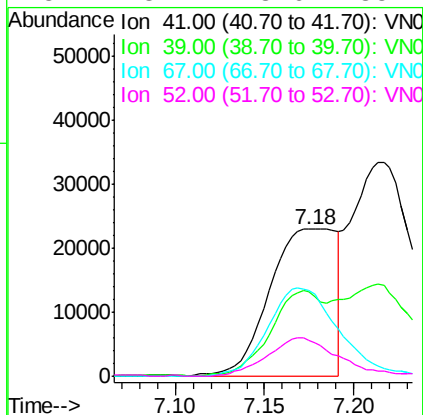
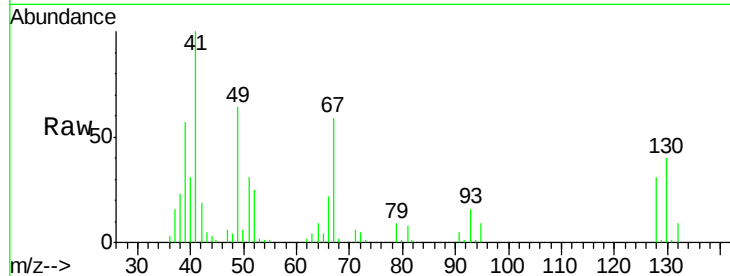
#41
Methacrylonitrile
Concen: 21.592 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Instrument :
MSVOA_N
ClientSampleId :
VN0418MBS01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	46.5	45.6	68.4	
67	64.1	57.0	85.6	
52	28.4	23.6	35.4	

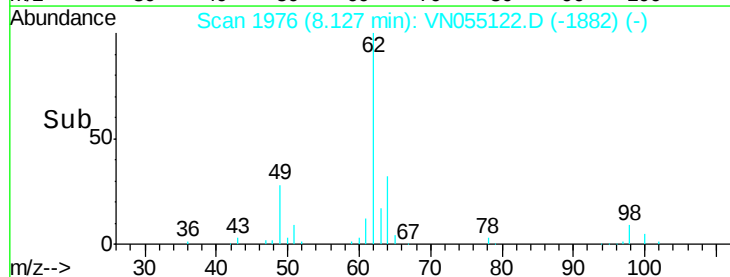
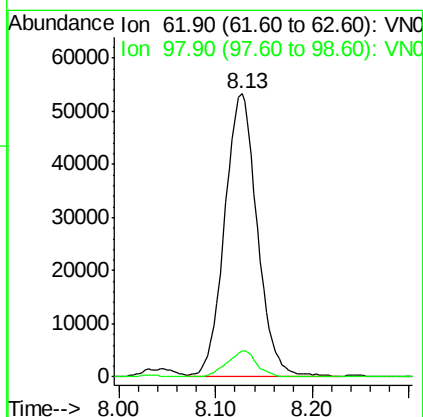
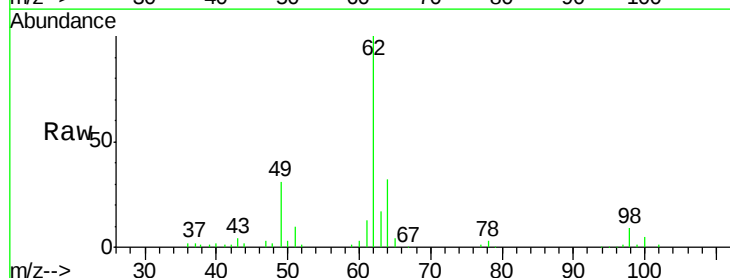
Manual Integrations
APPROVED

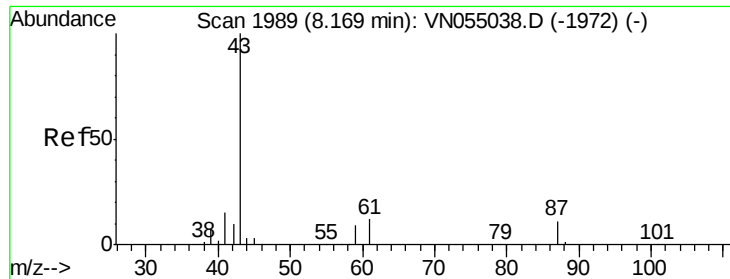
MMDadoda
4/19/2019 5:46:56 PM



#42
1,2-Dichloroethane
Concen: 19.487 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	8.5	0.0	17.4	





#43

Isopropyl Acetate

Concen: 20.637 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VN055122.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_N

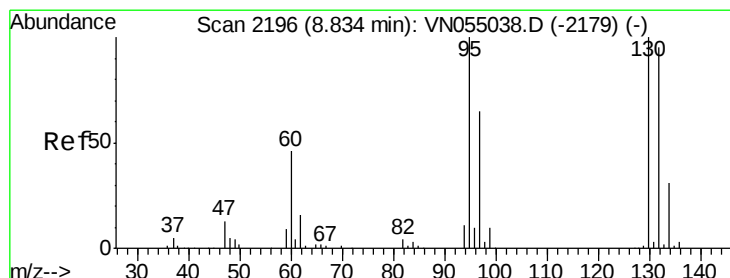
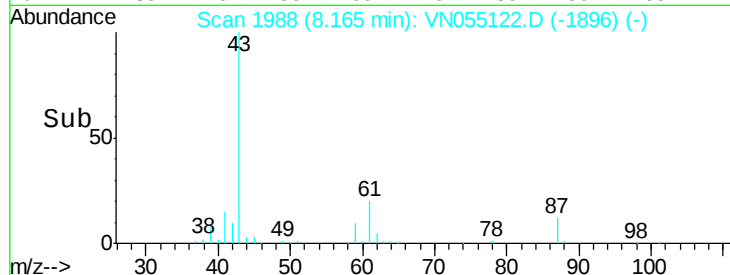
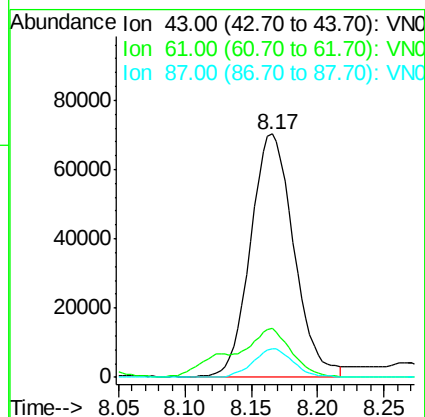
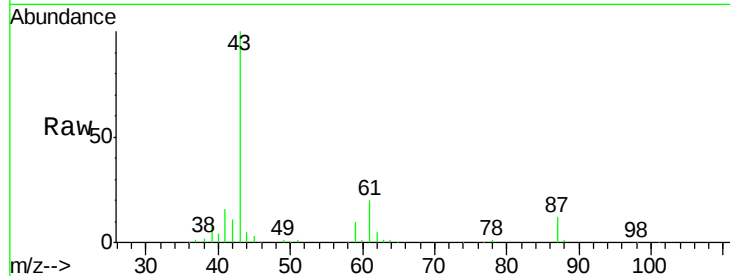
ClientSampleId :

VN0418MBS01

Tot Ion:	43	Resp:	158531
Ion	Ratio	Lower	Upper
43	100		
61	19.2	14.3	21.5
87	11.1	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
4/19/2019 5:46:56 PM



#44

Trichloroethene

Concen: 18.726 ug/l

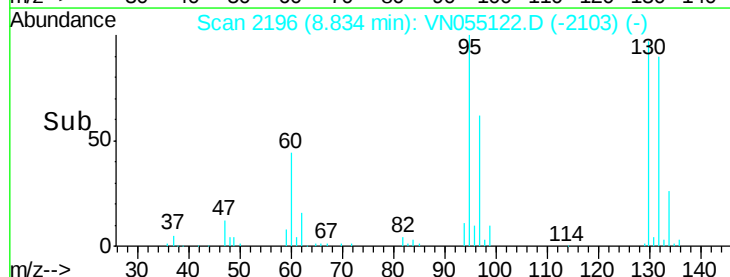
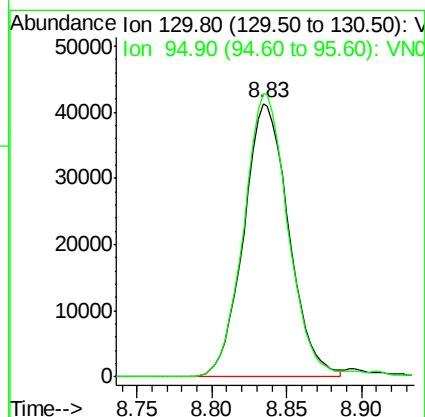
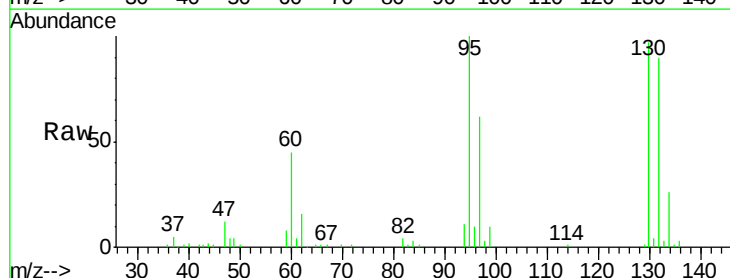
RT: 8.83 min Scan# 2196

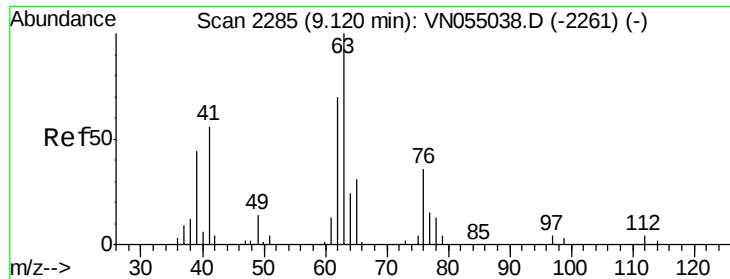
Delta R.T. 0.00 min

Lab File: VN055122.D

Acq: 18 Apr 2019 15:45

Tgt Ion:	130	Resp:	86564
Ion	Ratio	Lower	Upper
130	100		
95	103.6	0.0	201.6





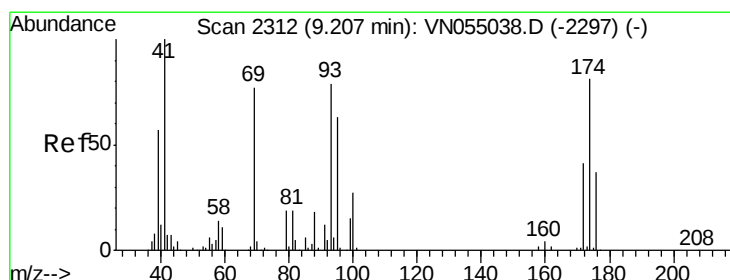
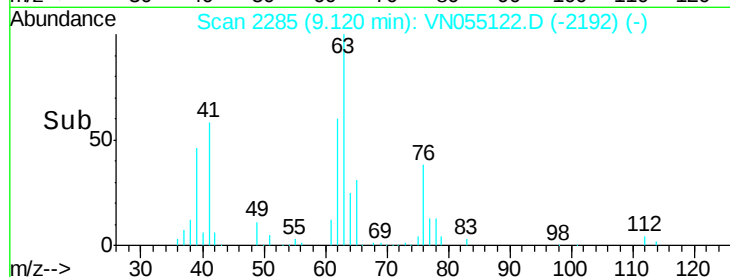
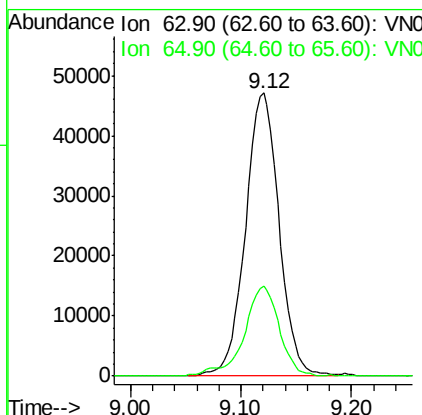
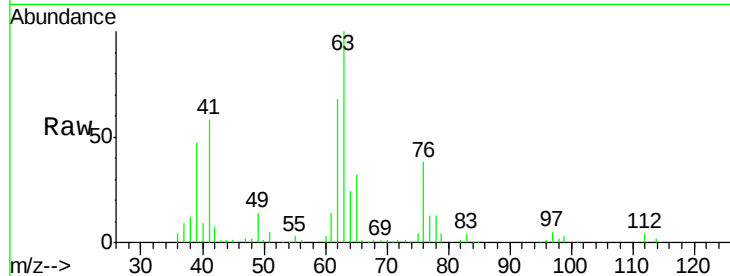
#45
 1,2-Dichloropropane
 Concen: 19.360 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN055122.D
 Acq: 18 Apr 2019 15:45

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0418MBS01

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.3	24.4	36.6

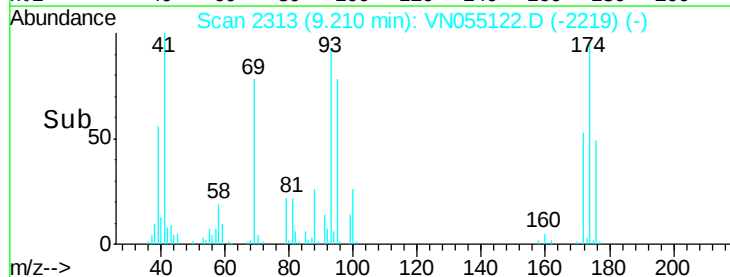
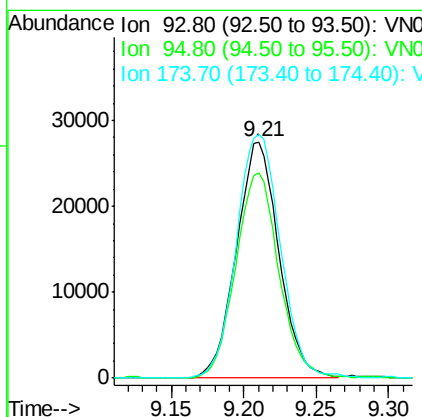
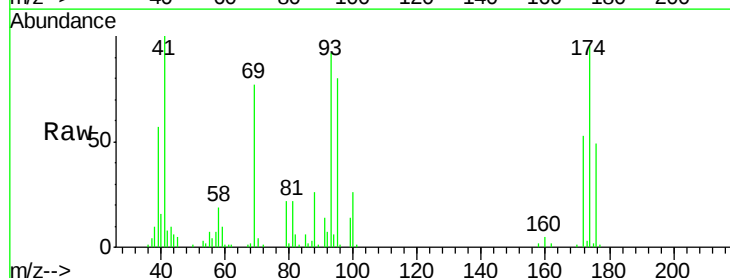
Manual Integrations
 APPROVED

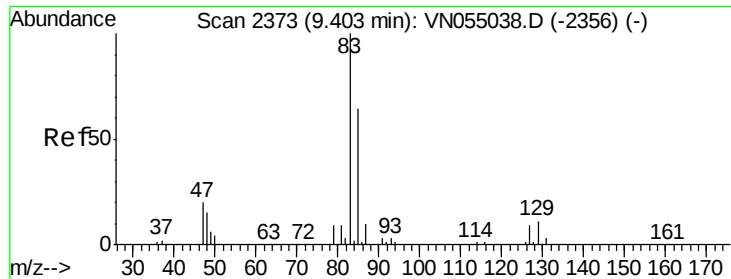
MMDadoda
 4/19/2019 5:46:56 PM



#46
 Dibromomethane
 Concen: 19.107 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN055122.D
 Acq: 18 Apr 2019 15:45

Tgt Ion	Ratio	Lower	Upper
93	100		
95	88.2	65.0	97.6
174	107.4	81.0	121.6





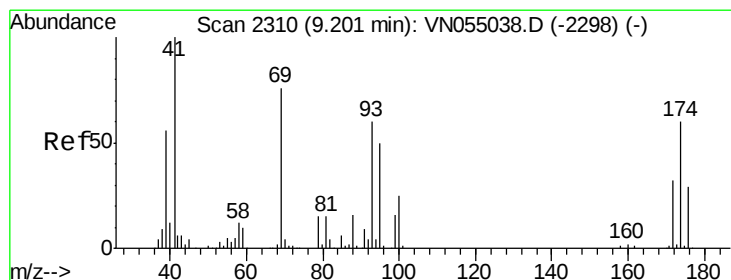
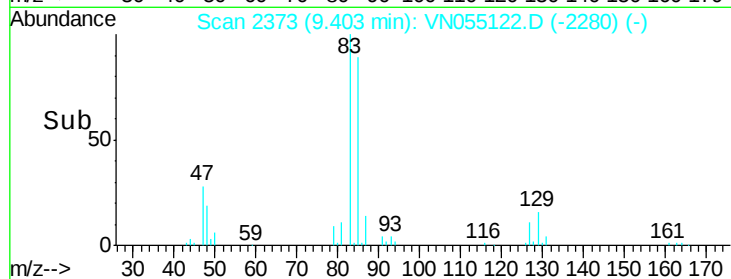
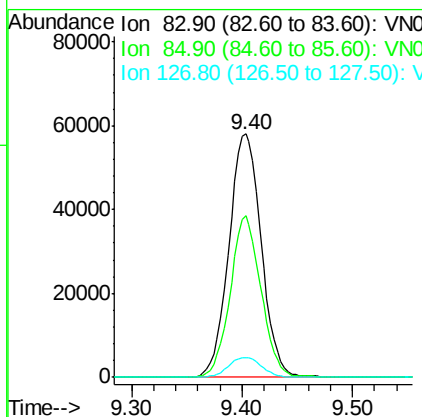
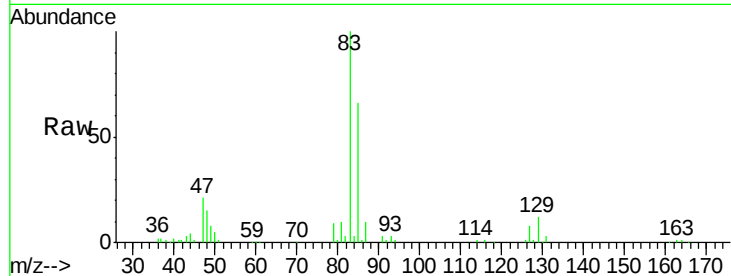
#47
Bromodichloromethane
Concen: 19.524 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Instrument :
MSVOA_N
ClientSampleId :
VN0418MBS01

Tot Ion	83	Resp	117930
Ion Ratio	100	Lower	Upper
83	100		
85	66.2	51.2	76.8
127	8.3	6.8	10.2

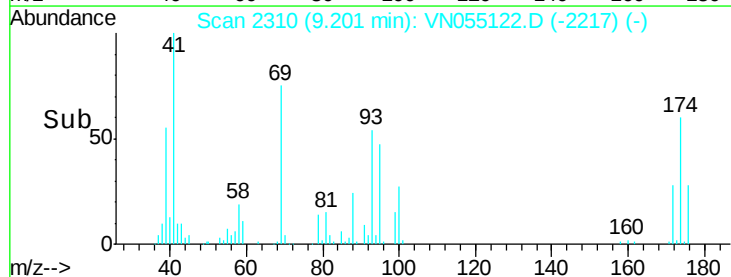
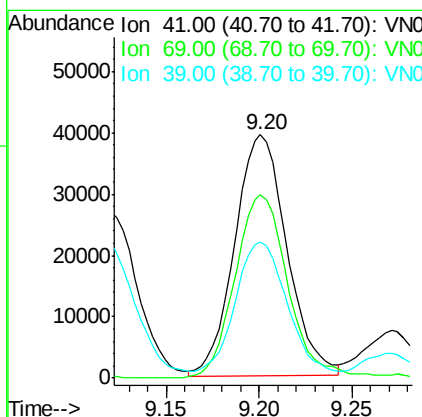
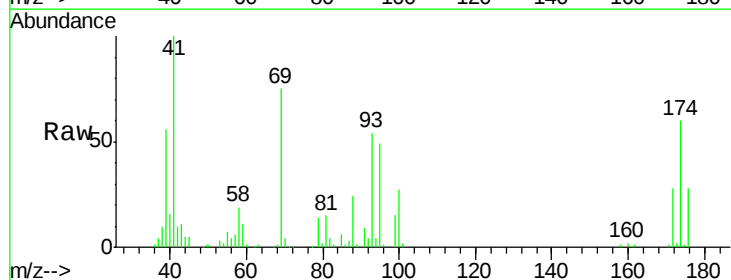
Manual Integrations
APPROVED

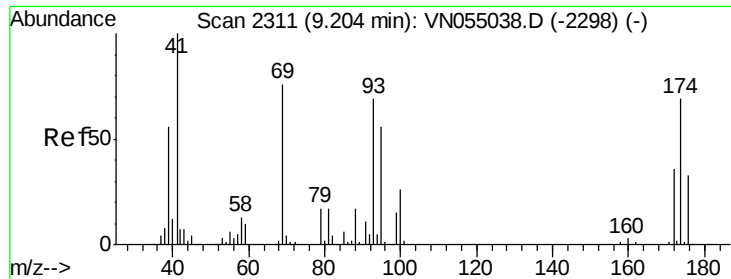
MMDadoda
4/19/2019 5:46:56 PM



#48
Methyl methacrylate
Concen: 20.331 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Tgt Ion	41	Resp	77411
Ion Ratio	100	Lower	Upper
41	100		
69	77.0	60.5	90.7
39	56.4	43.9	65.9





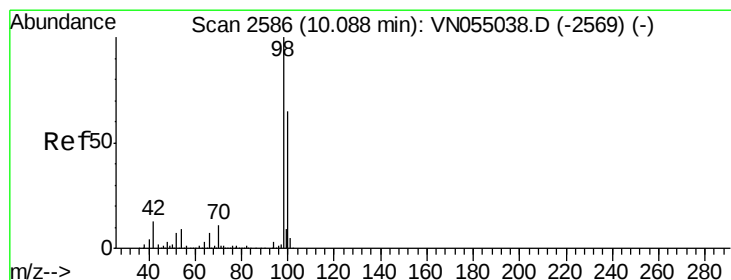
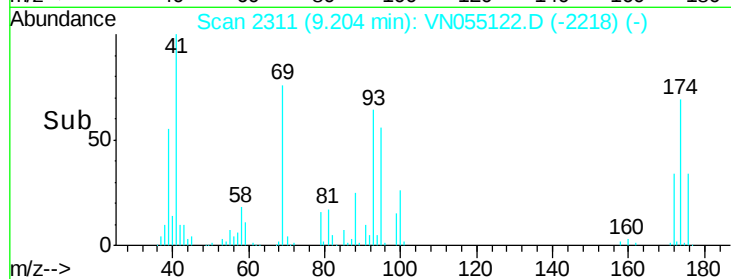
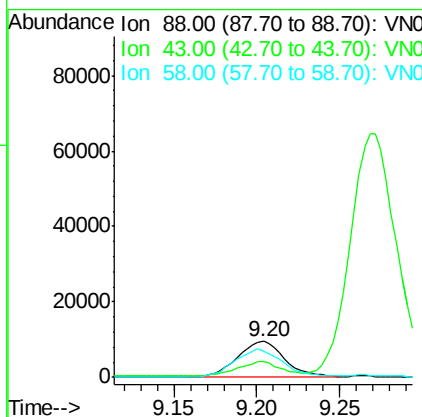
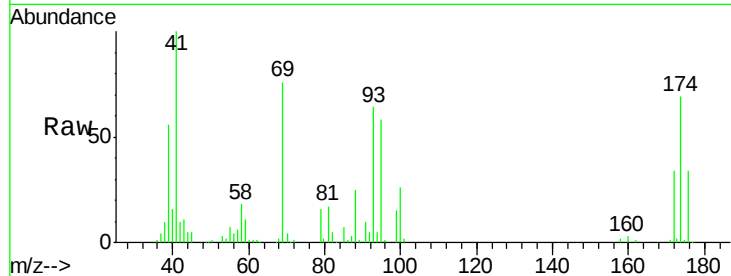
#49
1,4-Dioxane
Concen: 537.791 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Instrument :
MSVOA_N
ClientSampleId :
VN0418MBS01

Tot Ion	88	Resp	19184
Ion	Ratio	Lower	Upper
88	100		
43	36.6	31.8	47.8
58	79.6	61.6	92.4

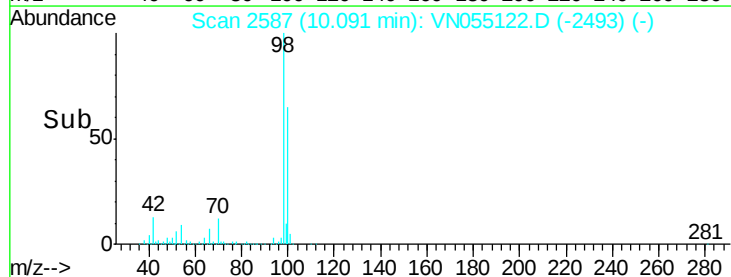
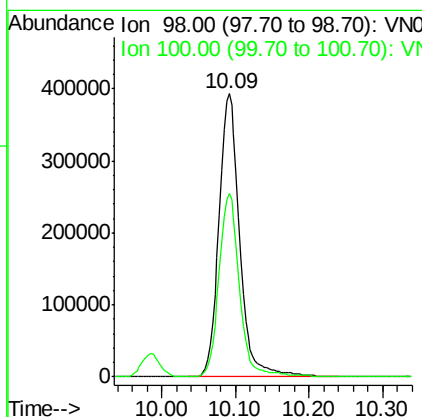
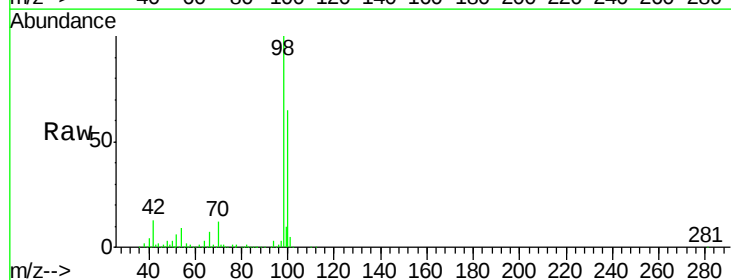
Manual Integrations
APPROVED

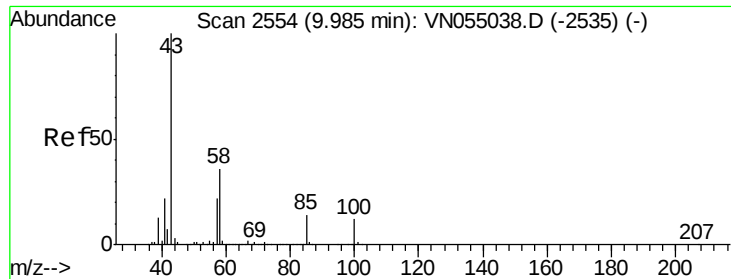
MMDadoda
4/19/2019 5:46:56 PM



#50
Toluene-d8
Concen: 49.443 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Tgt Ion	98	Resp	768231
Ion	Ratio	Lower	Upper
98	100		
100	64.3	51.1	76.7





#51

4-Methyl-2-Pentanone

Concen: 110.558 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN055122.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_N

ClientSampleId :

VN0418MBS01

Tot Ion: 43 Resp: 490651

Ion Ratio Lower Upper

43 100

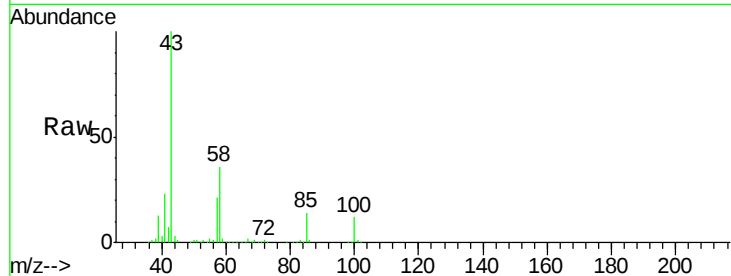
58 35.7 29.0 43.4

Manual Integrations

APPROVED

MMDadoda

4/19/2019 5:46:56 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.99

250000

200000

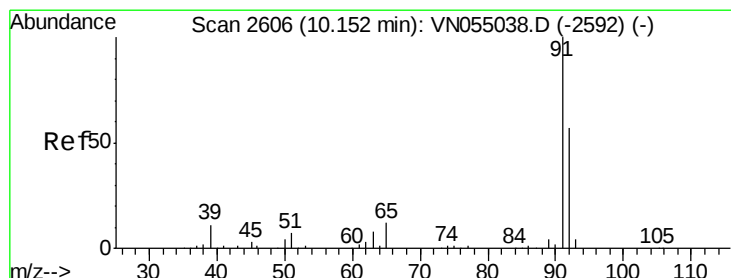
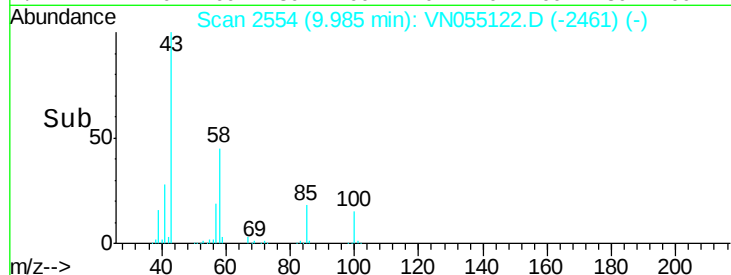
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 19.560 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN055122.D

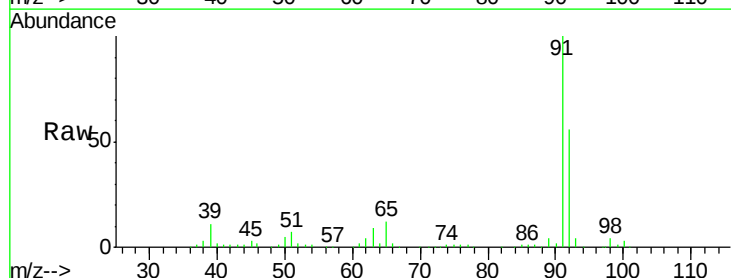
Acq: 18 Apr 2019 15:45

Tgt Ion: 92 Resp: 206753

Ion Ratio Lower Upper

92 100

91 173.1 140.8 211.2



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

10.16

200000

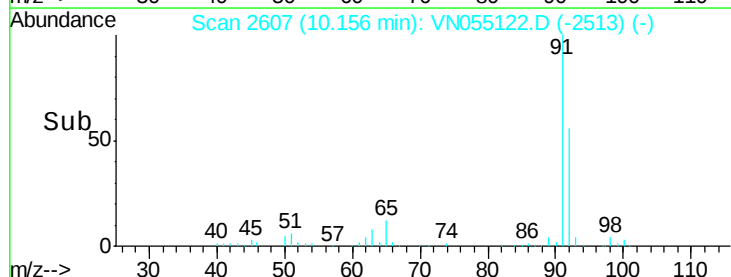
150000

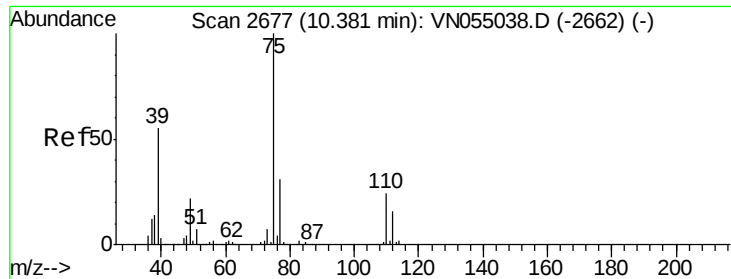
100000

50000

0

Time-->





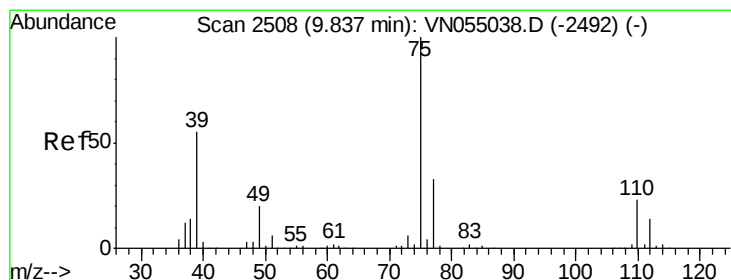
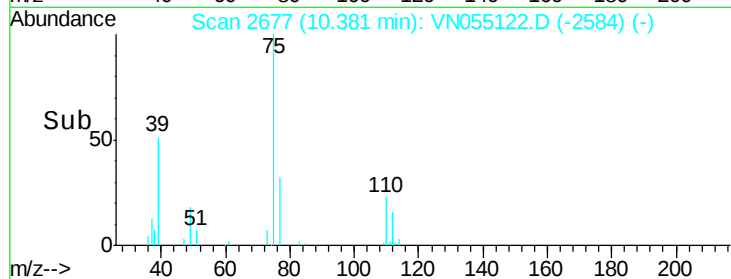
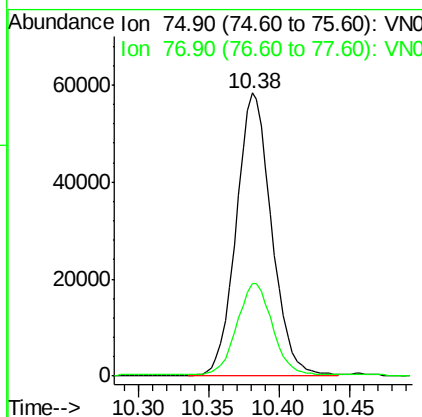
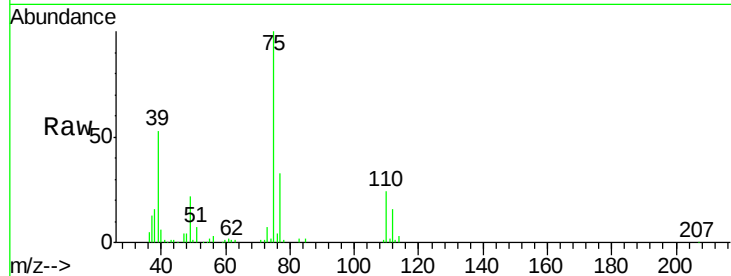
#53
t-1,3-Dichloropropene
Concen: 19.438 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Instrument :
MSVOA_N
ClientSampleId :
VN0418MBS01

Tot Ion: 75 Resp: 102605
Ion Ratio Lower Upper
75 100
77 32.1 24.6 37.0

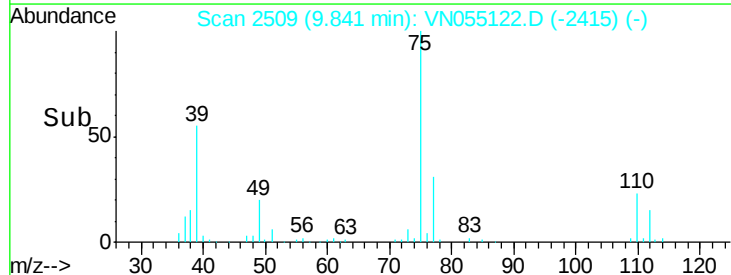
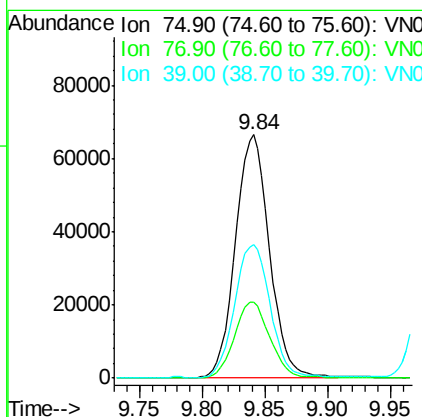
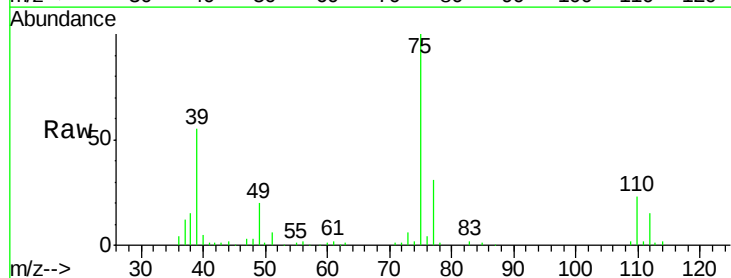
Manual Integrations
APPROVED

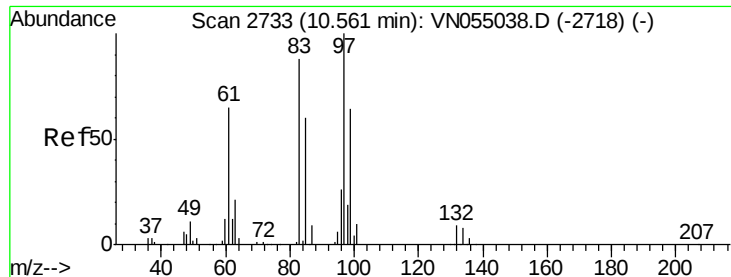
MMDadoda
4/19/2019 5:46:56 PM



#54
cis-1,3-Dichloropropene
Concen: 19.208 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Tgt Ion: 75 Resp: 125842
Ion Ratio Lower Upper
75 100
77 31.4 25.8 38.6
39 54.3 43.8 65.8





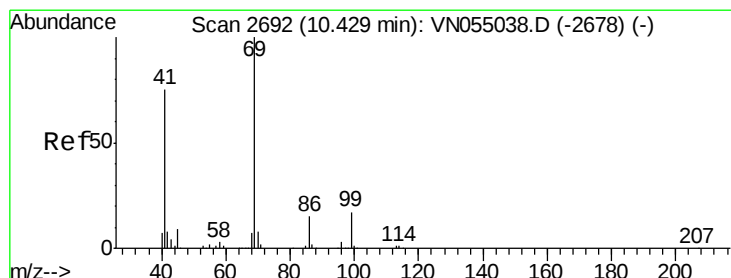
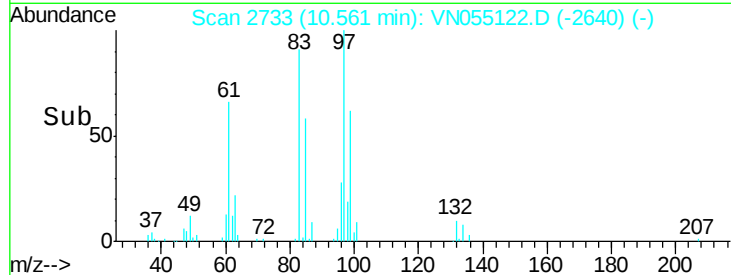
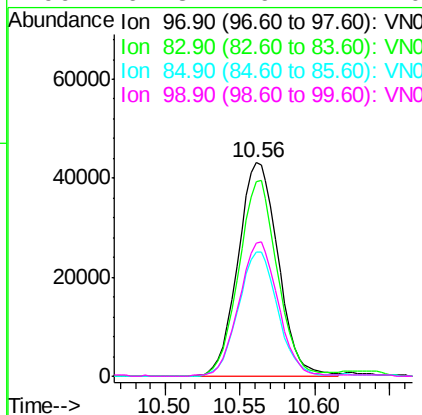
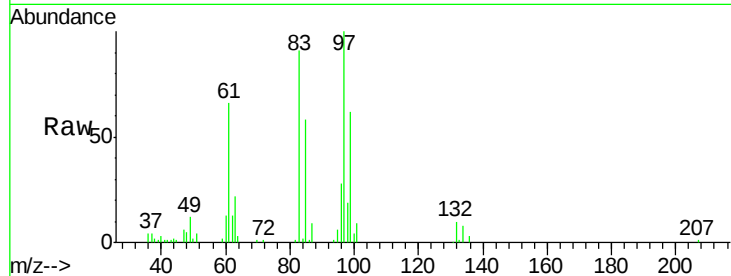
#55
 1,1,2-Trichloroethane
 Concen: 19.860 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN055122.D
 Acq: 18 Apr 2019 15:45

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0418MBS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	91.3	70.5	105.7
85	58.2	45.5	68.3
99	62.3	49.4	74.0

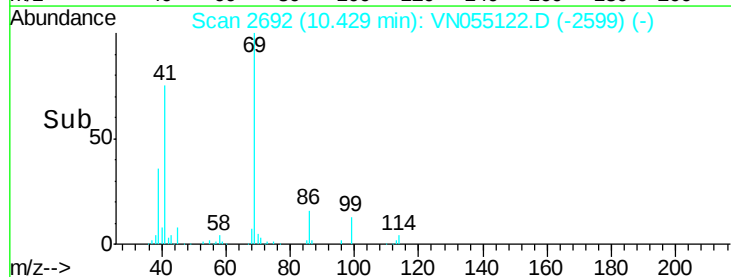
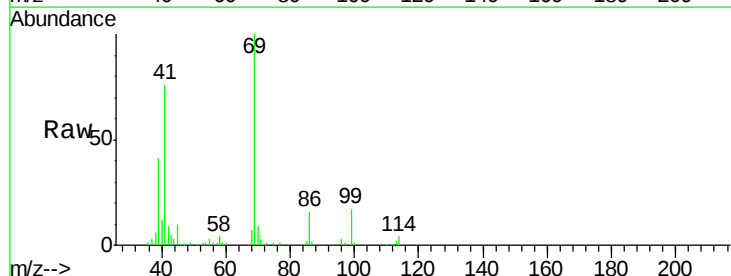
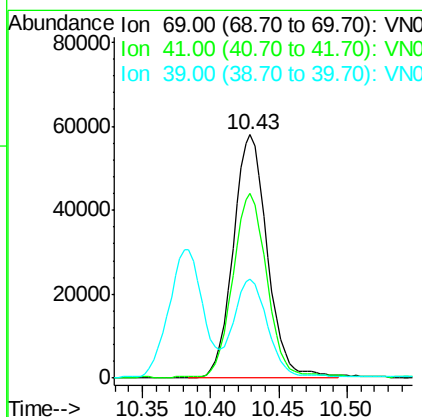
Manual Integrations
 APPROVED

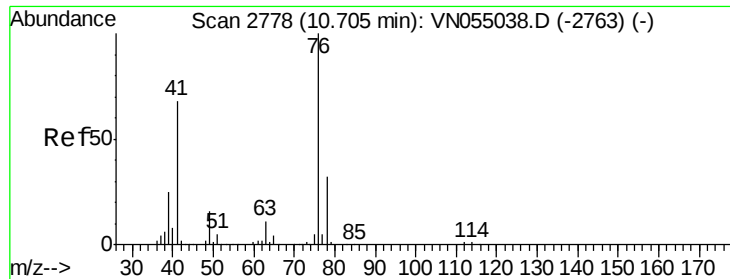
MMDadoda
 4/19/2019 5:46:56 PM



#56
 Ethyl methacrylate
 Concen: 20.647 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN055122.D
 Acq: 18 Apr 2019 15:45

Tgt Ion	Ratio	Lower	Upper
69	100		
41	75.1	61.4	92.0
39	38.5	30.8	46.2





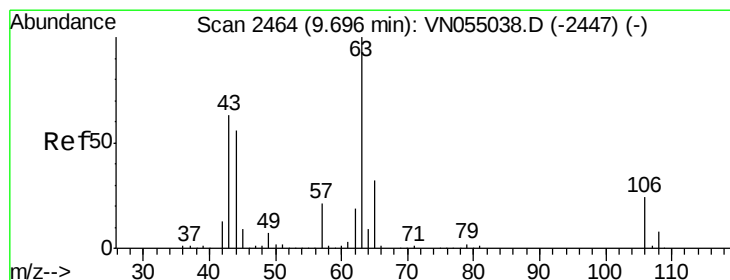
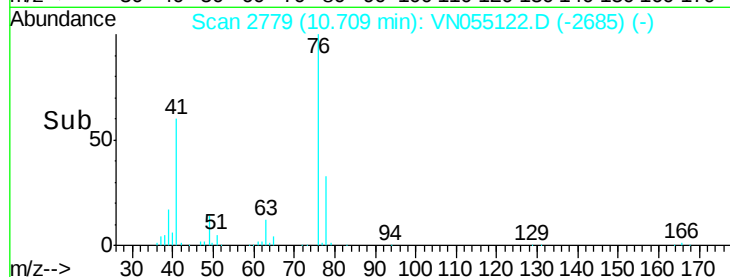
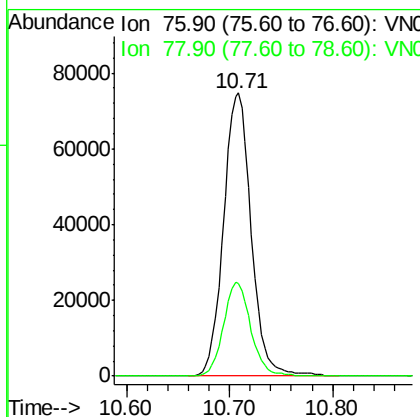
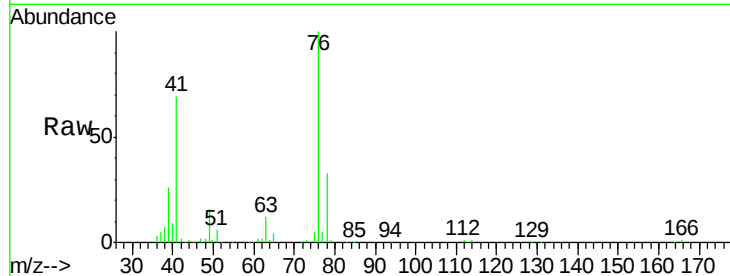
#57
 1,3-Dichloropropane
 Concen: 20.129 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VN055122.D
 Acq: 18 Apr 2019 15:45

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0418MBS01

Tot Ion: 76 Resp: 139575
 Ion Ratio Lower Upper
 76 100
 78 32.9 25.6 38.4

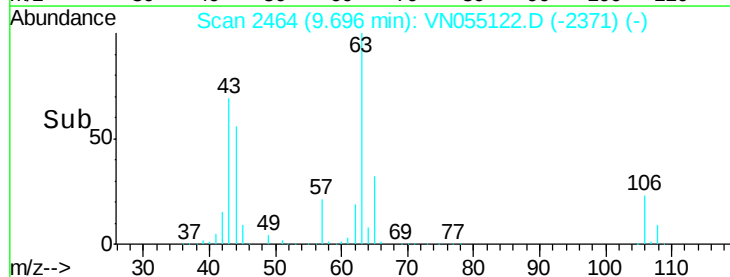
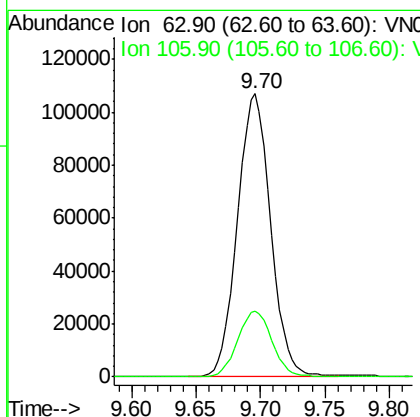
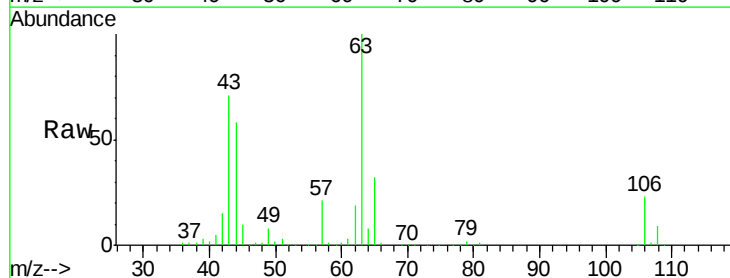
Manual Integrations
 APPROVED

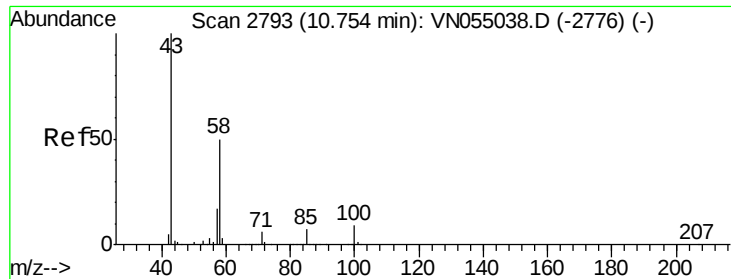
MMDadoda
 4/19/2019 5:46:56 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 96.327 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN055122.D
 Acq: 18 Apr 2019 15:45

Tgt Ion: 63 Resp: 191983
 Ion Ratio Lower Upper
 63 100
 106 24.1 20.0 30.0





#59

2-Hexanone

Concen: 112.693 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. -0.00 min

Lab File: VN055122.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_N

ClientSampleId :

VN0418MBS01

Tot Ion: 43 Resp: 314126

Ion Ratio Lower Upper

43 100

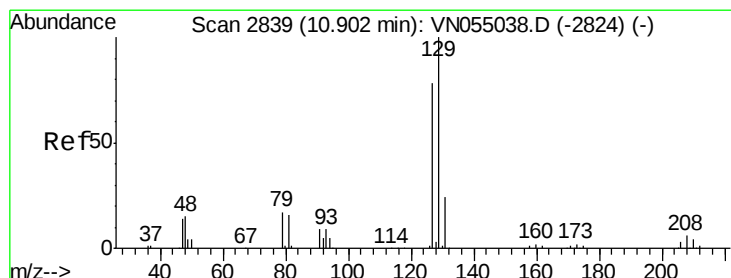
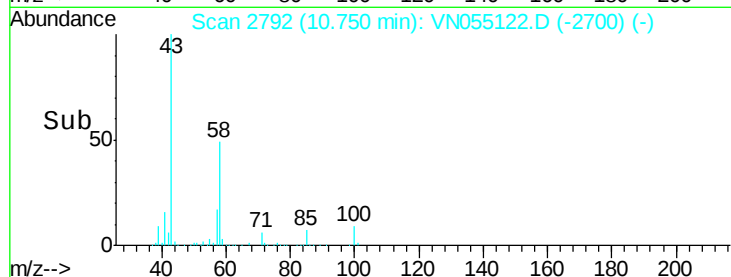
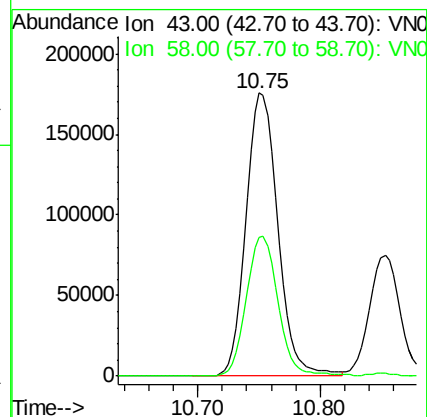
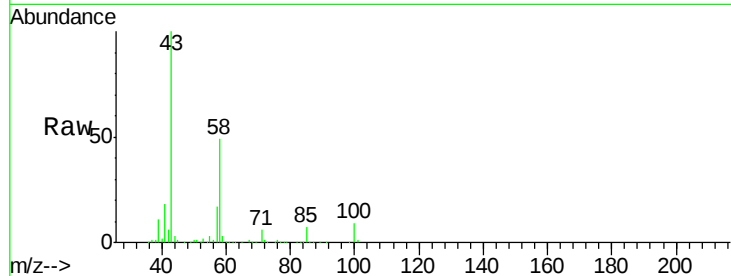
58 49.5 25.1 75.2

Manual Integrations

APPROVED

MMDadoda

4/19/2019 5:46:56 PM



#60

Dibromochloromethane

Concen: 20.043 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN055122.D

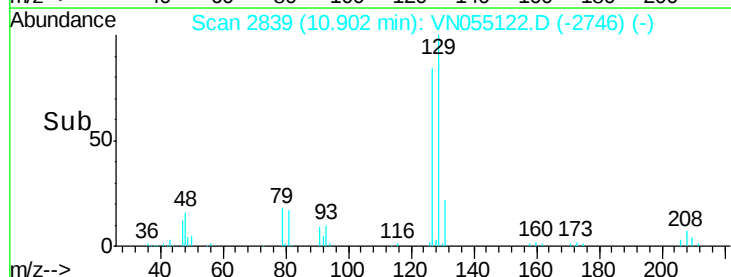
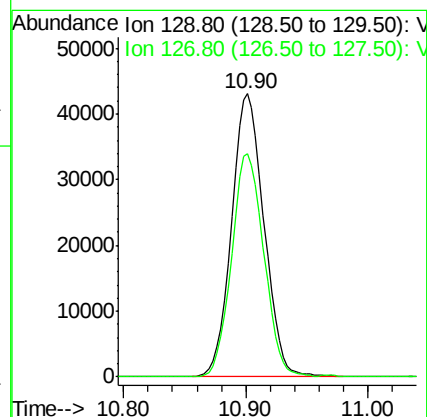
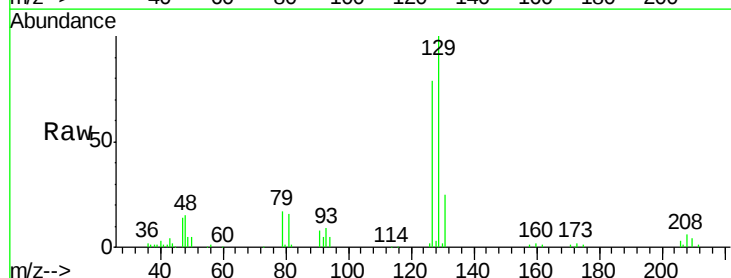
Acq: 18 Apr 2019 15:45

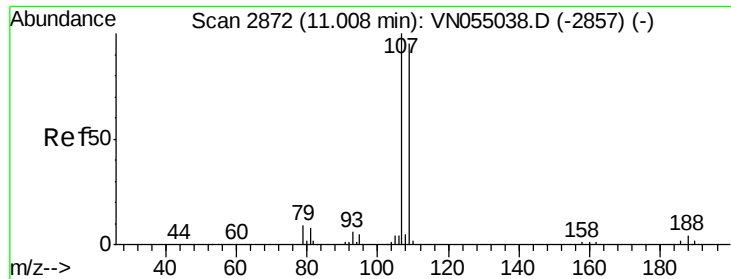
Tgt Ion: 129 Resp: 79708

Ion Ratio Lower Upper

129 100

127 78.4 38.2 114.6





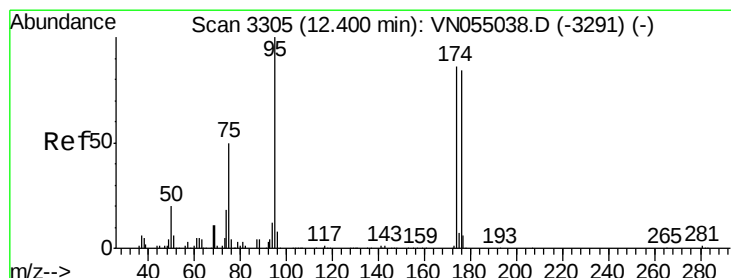
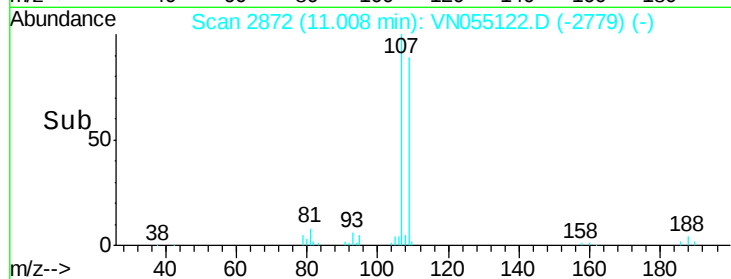
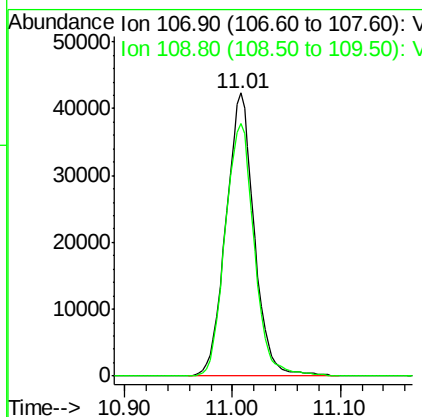
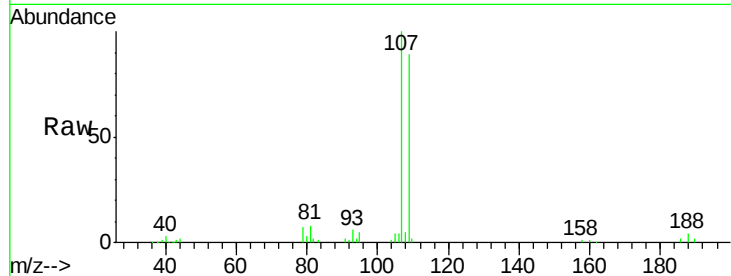
#61
 1,2-Dibromoethane
 Concen: 20.585 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN055122.D
 Acq: 18 Apr 2019 15:45

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0418MBS01

Tot Ion	Ratio	Lower	Upper
107	100		
109	92.1	76.5	114.7

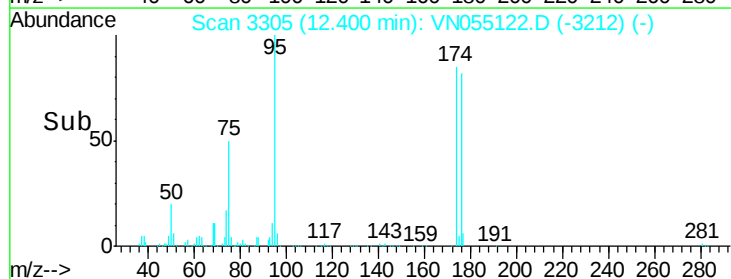
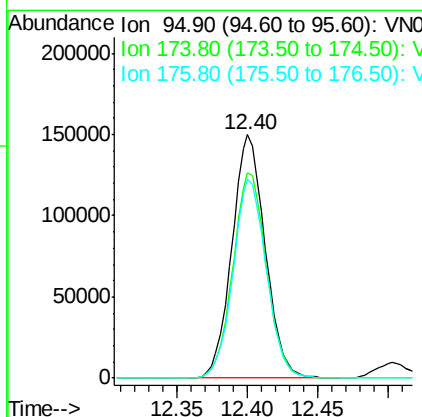
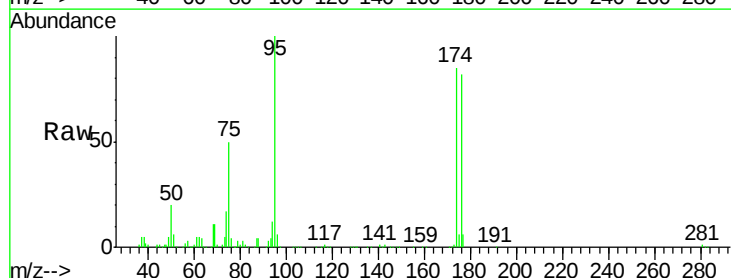
Manual Integrations
 APPROVED

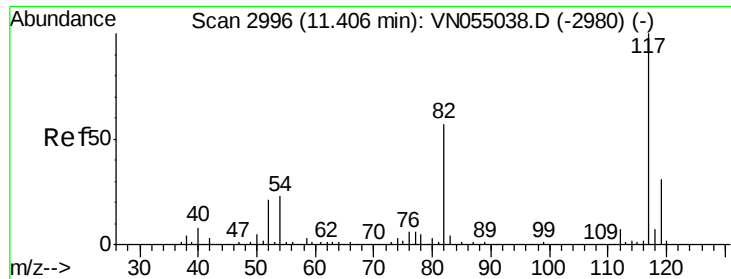
MMDadoda
 4/19/2019 5:46:56 PM



#62
 4-Bromofluorobenzene
 Concen: 49.064 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN055122.D
 Acq: 18 Apr 2019 15:45

Tgt Ion	Ratio	Lower	Upper
95	100		
174	85.4	0.0	174.4
176	81.8	0.0	166.8





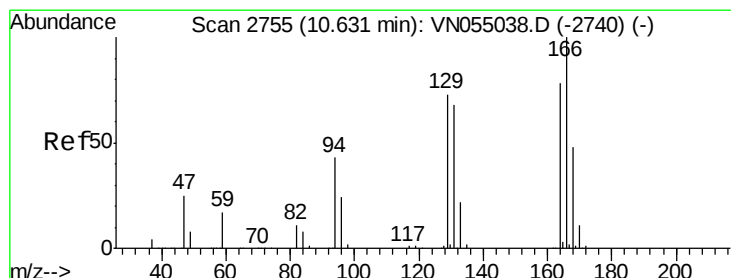
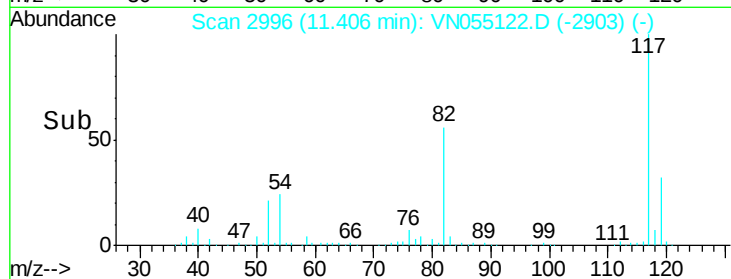
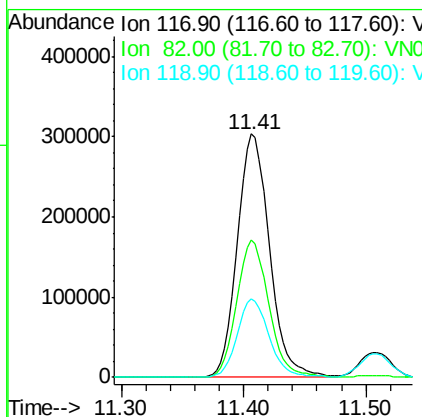
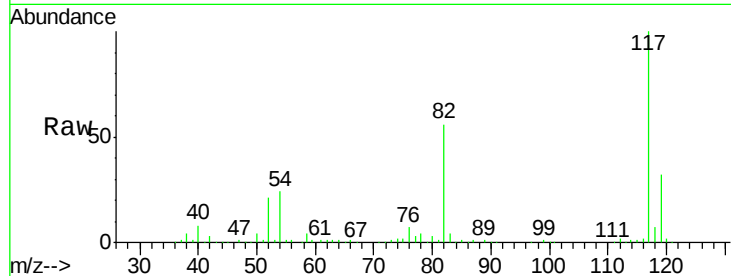
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Instrument :
MSVOA_N
ClientSampleId :
VN0418MBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	554619		
82	56.3		44.6	66.8
119	32.2		25.5	38.3

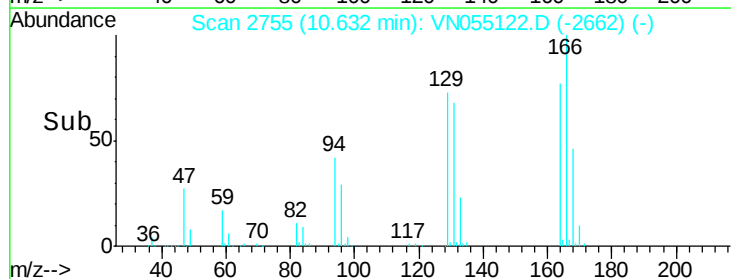
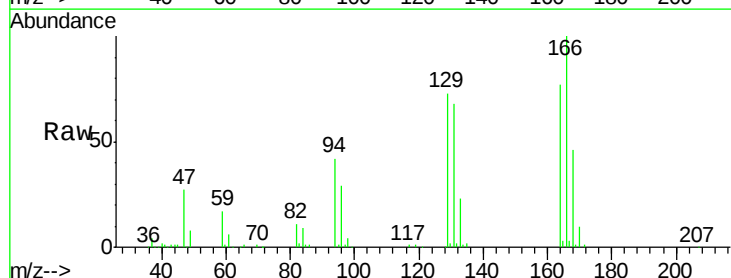
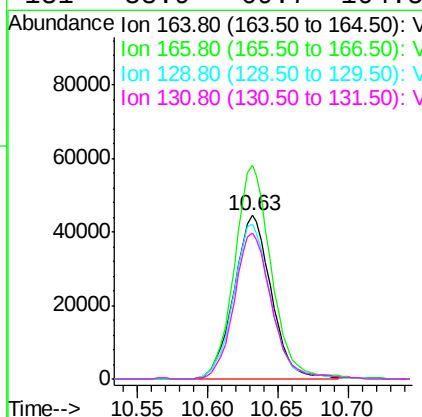
Manual Integrations
APPROVED

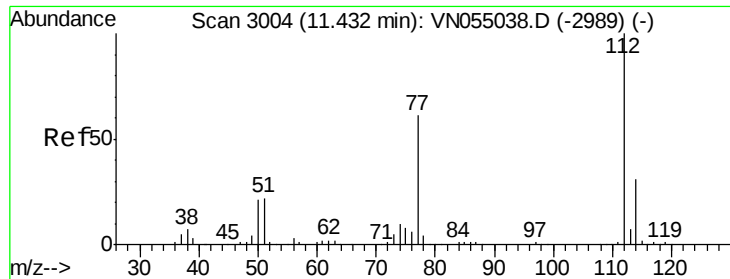
MMDadoda
4/19/2019 5:46:56 PM



#64
Tetrachloroethene
Concen: 18.284 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	82462		
166	130.4		100.0	150.0
129	94.9		72.0	108.0
131	88.9		69.7	104.5





#65

Chlorobenzene

Concen: 18.804 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN055122.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_N

ClientSampleId :

VN0418MBS01

Tot Ion:112 Resp: 209929

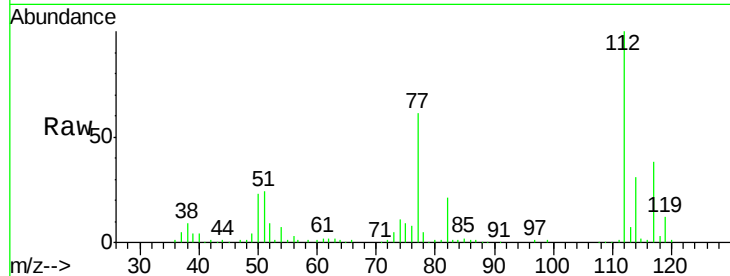
Ion Ratio Lower Upper

112 100

114 30.9 25.3 37.9

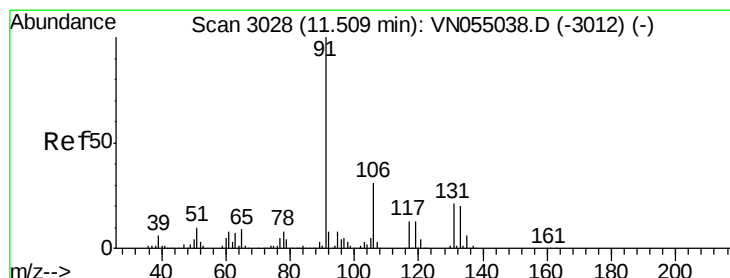
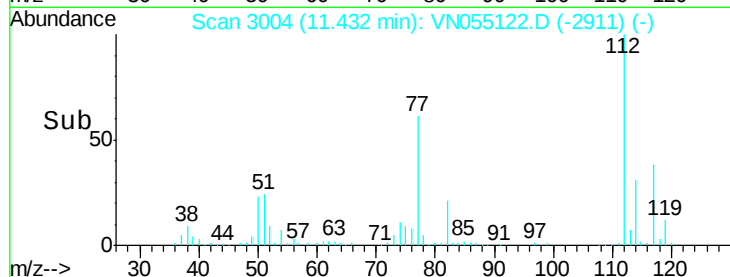
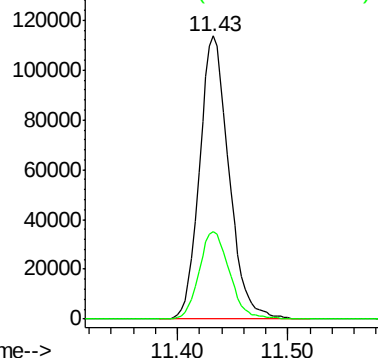
Manual Integrations
APPROVED

MMDadoda
4/19/2019 5:46:56 PM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 19.496 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN055122.D

Acq: 18 Apr 2019 15:45

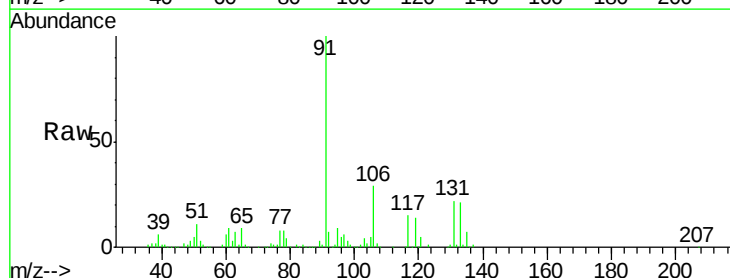
Tgt Ion:131 Resp: 80051

Ion Ratio Lower Upper

131 100

133 95.6 47.8 143.3

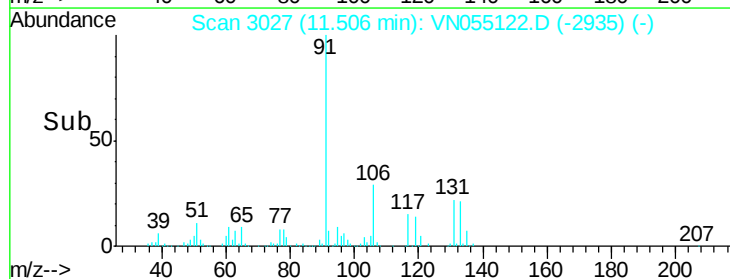
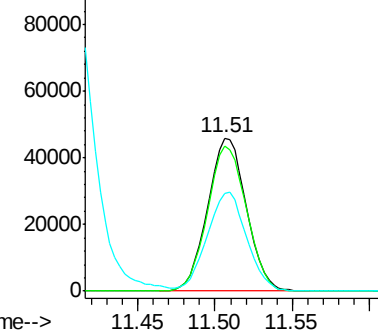
119 65.5 33.6 100.6

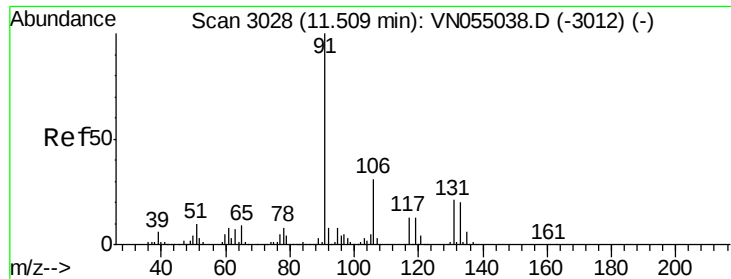


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 19.425 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN055122.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_N

ClientSampleId :

VN0418MBS01

Tot Ion: 91 Resp: 387269

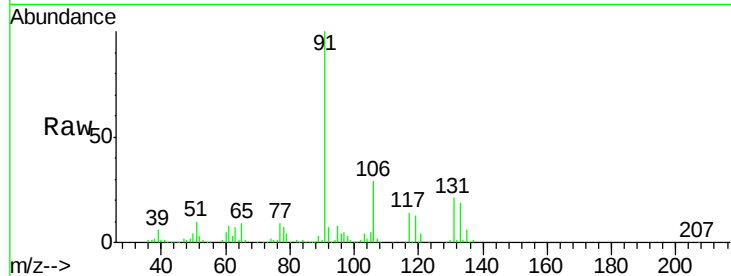
Ion Ratio Lower Upper

91 100

106 29.1 24.3 36.5

Manual Integrations
APPROVED

MMDadoda
4/19/2019 5:46:56 PM



Abundance Ion 91.00 (90.70 to 91.70): VN055038.D (-3012) (-)

Ion 106.00 (105.70 to 106.70): VN055038.D (-3012) (-)

300000

200000

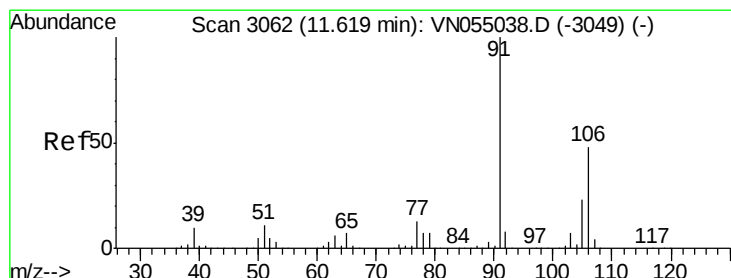
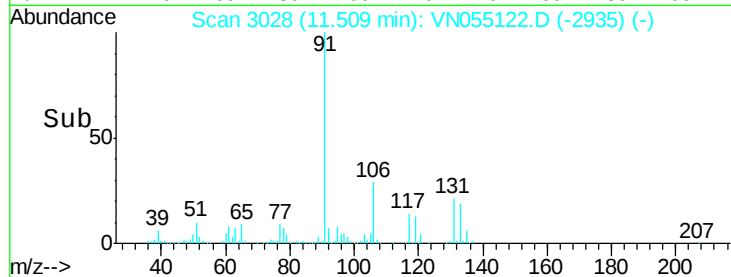
100000

0

11.51

11.60

Time-->



#68

m/p-Xylenes

Concen: 38.383 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN055122.D

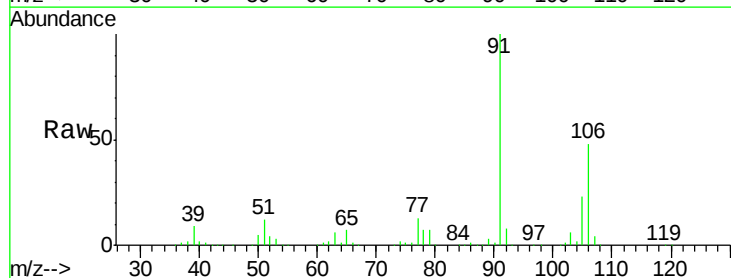
Acq: 18 Apr 2019 15:45

Tgt Ion: 106 Resp: 277101

Ion Ratio Lower Upper

106 100

91 205.8 165.9 248.9



Abundance Ion 106.00 (105.70 to 106.70): VN055038.D (-3049) (-)

Ion 91.00 (90.70 to 91.70): VN055038.D (-3049) (-)

300000

200000

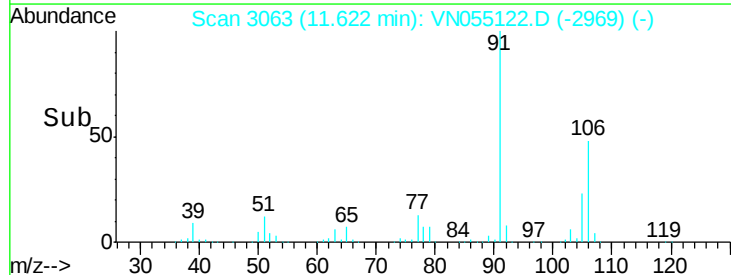
100000

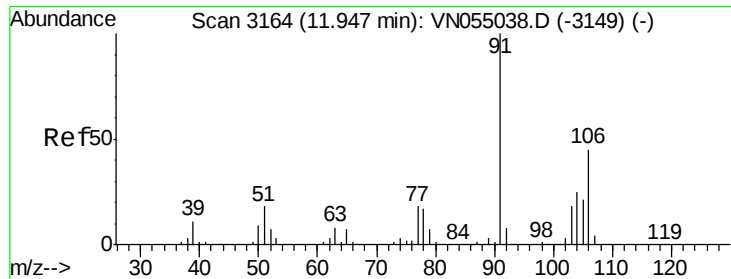
0

11.62

11.70

Time-->





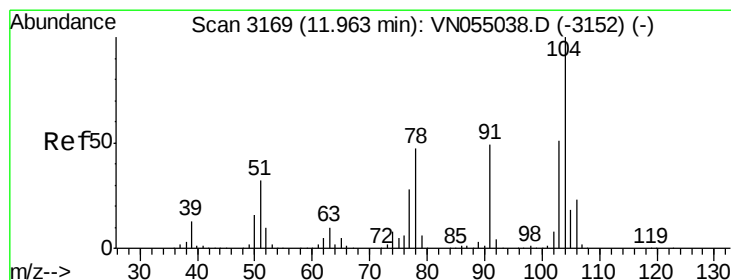
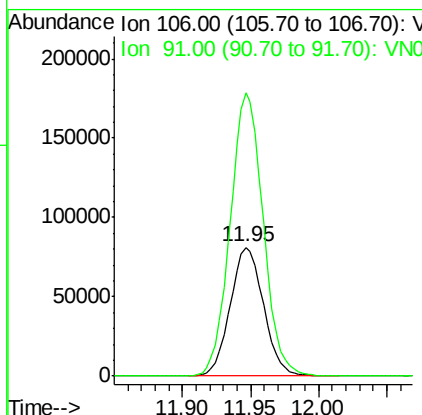
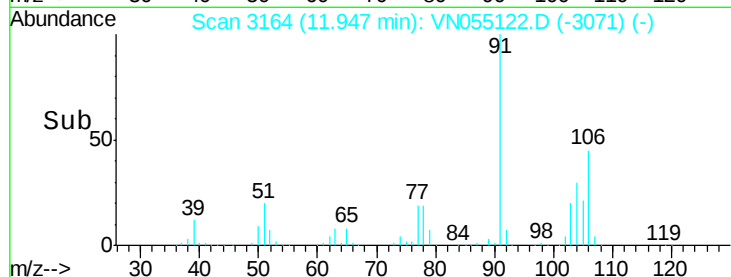
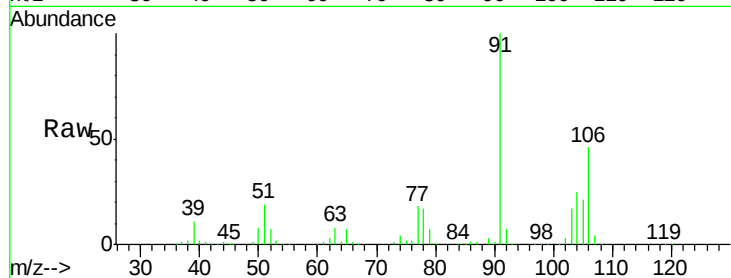
#69
o-Xylene
Concen: 19.741 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Instrument :
MSVOA_N
ClientSampleId :
VN0418MBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		138040		
91	216.8	109.9	329.8		

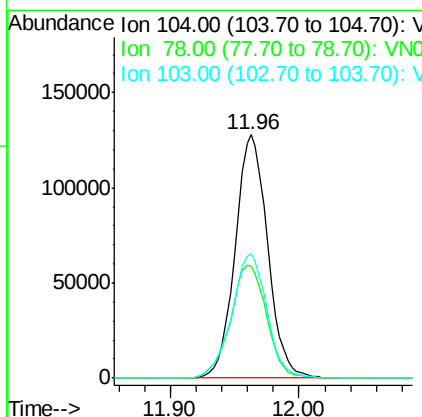
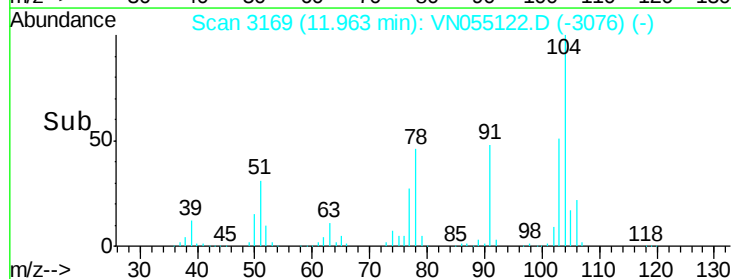
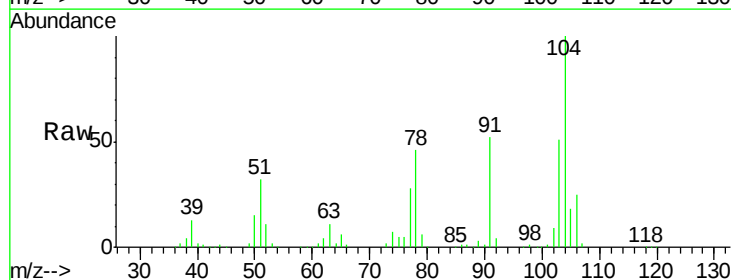
Manual Integrations
APPROVED

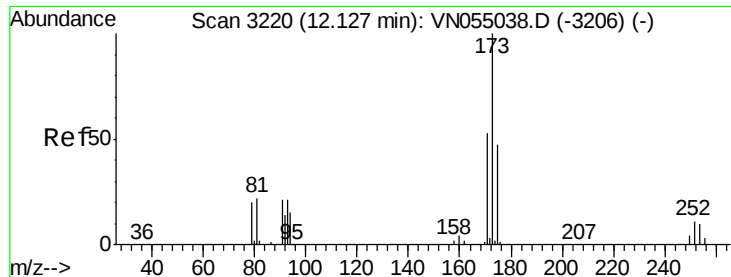
MMDadoda
4/19/2019 5:46:56 PM



#70
Styrene
Concen: 19.738 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100		223403		
78	51.5	40.3	60.5		
103	55.3	44.3	66.5		





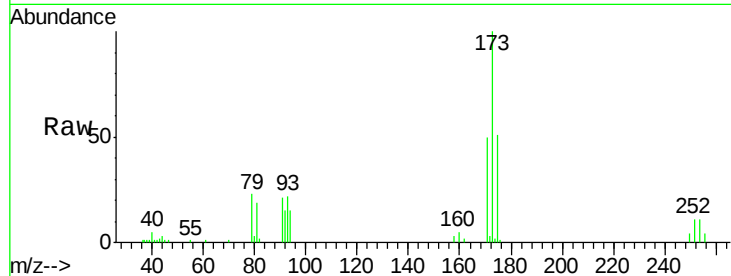
#71
Bromoform
Concen: 20.487 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Instrument :
MSVOA_N
ClientSampleId :
VN0418MBS01

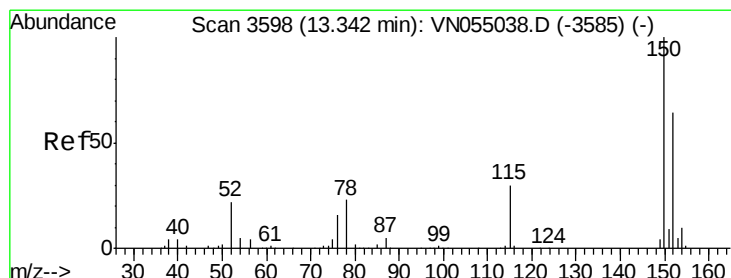
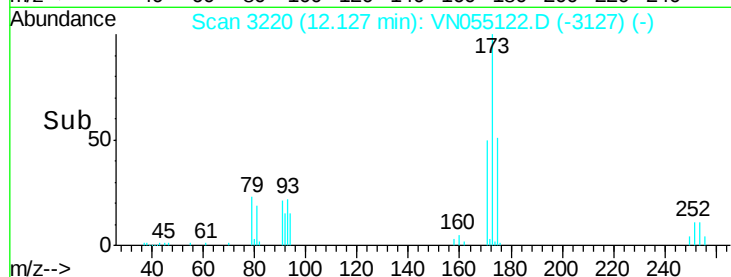
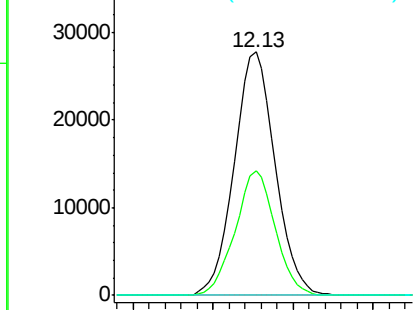
Tot Ion	Ratio	Lower	Upper
173	100		
175	49.9	24.3	73.0
254	0.0	0.1	0.1#

Manual Integrations
APPROVED

MMDadoda
4/19/2019 5:46:56 PM

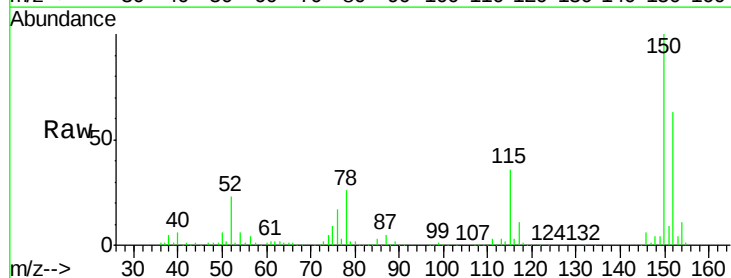


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

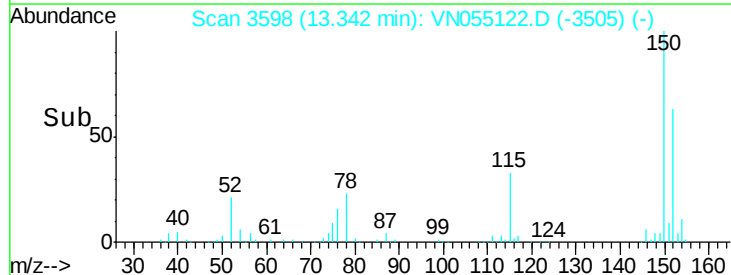
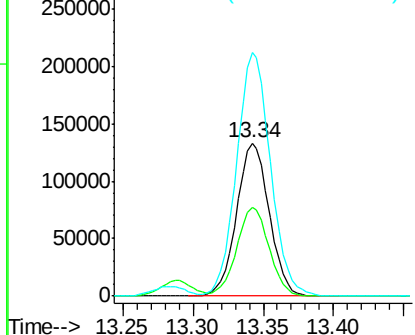


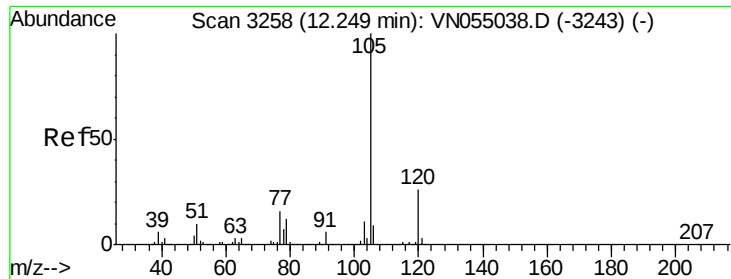
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.5	28.5	85.6
150	164.8	0.0	347.2



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





#73

Isopropylbenzene

Concen: 18.880 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055122.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_N

ClientSampled :

VN0418MBS01

Tot Ion: 105 Resp: 362064

Ion Ratio Lower Upper

105 100

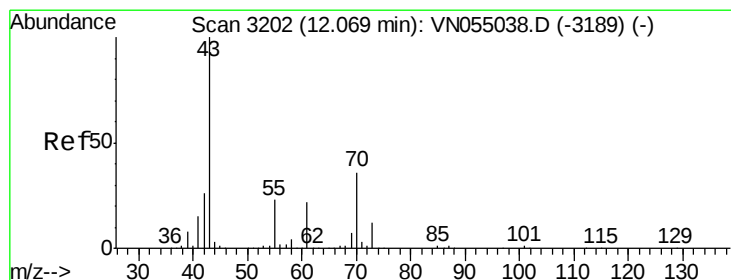
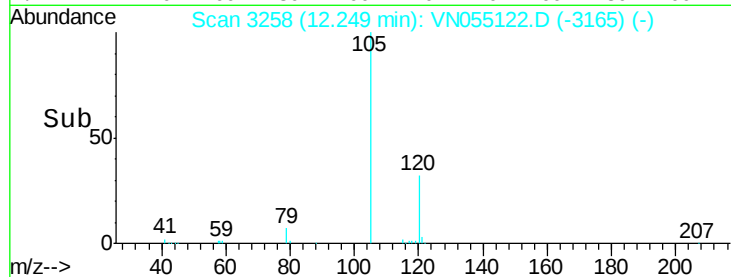
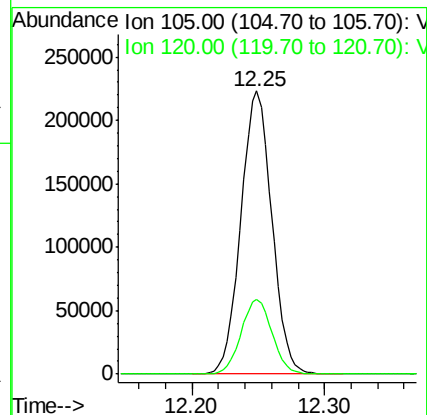
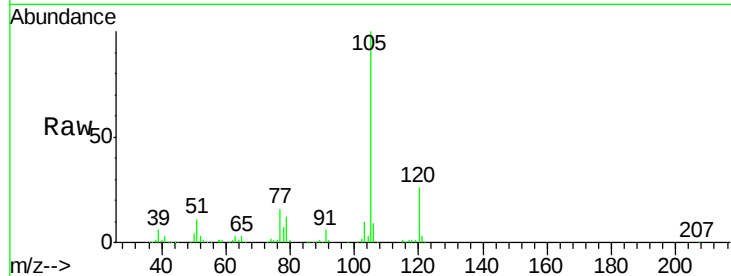
120 26.5 13.3 39.9

Manual Integrations

APPROVED

MMDadoda

4/19/2019 5:46:56 PM



#74

N-ethyl acetate

Concen: 21.279 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN055122.D

Acq: 18 Apr 2019 15:45

Tgt Ion: 43 Resp: 114869

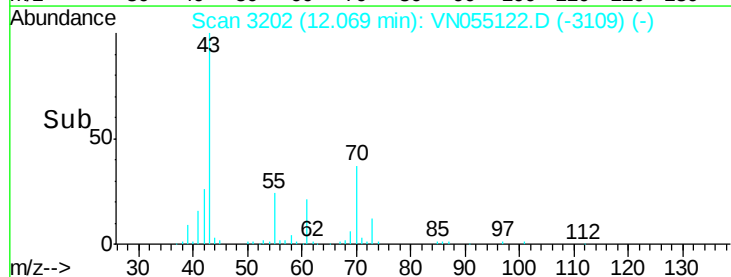
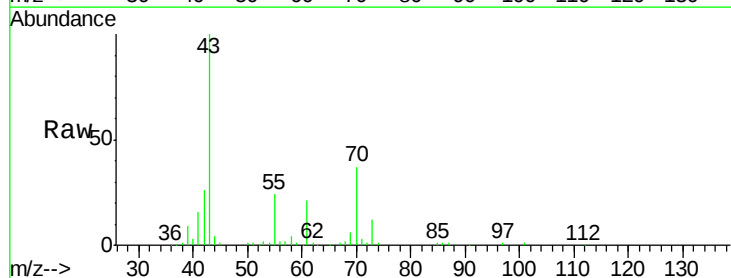
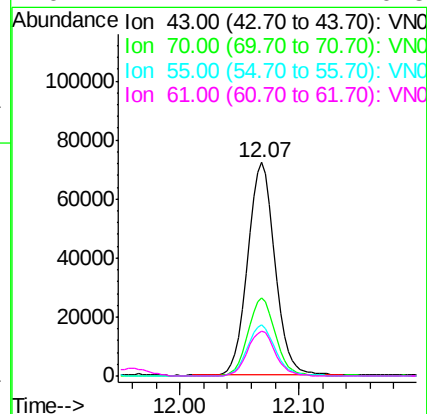
Ion Ratio Lower Upper

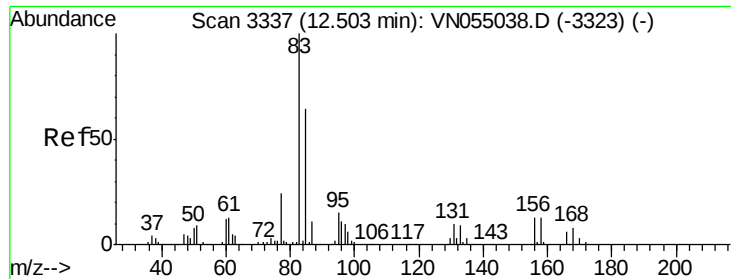
43 100

70 37.1 29.4 44.0

55 24.7 19.0 28.4

61 21.4 17.7 26.5





#75

1,1,2,2-Tetrachloroethane

Concen: 20.486 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN055122.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_N

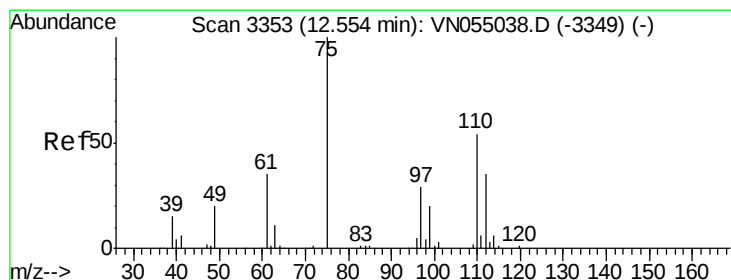
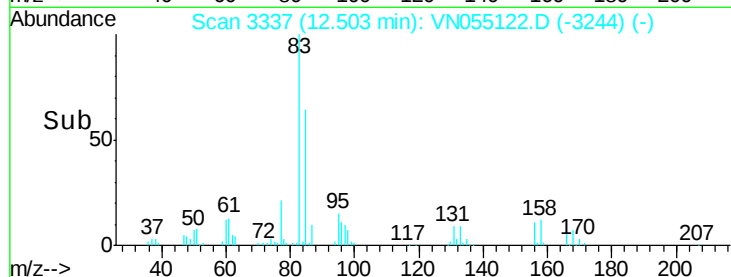
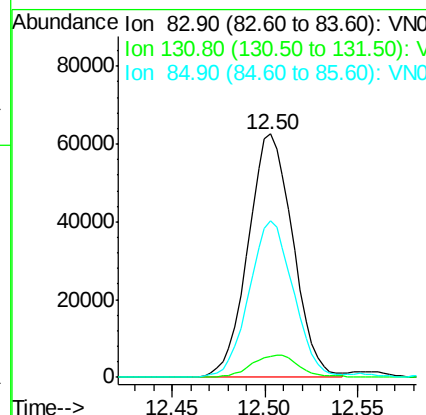
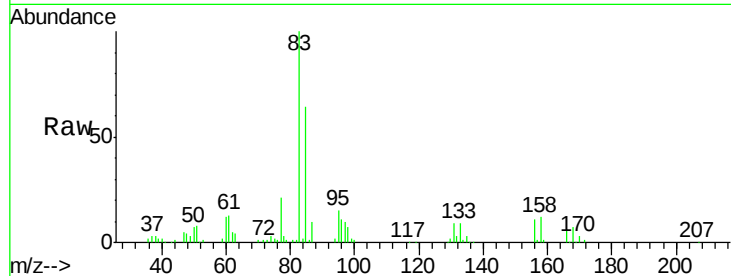
ClientSampleId :

VN0418MBS01

Tot Ion:	83	Resp:	105121
Ion Ratio	Lower	Upper	
83	100		
131	9.8	5.0	15.0
85	63.8	32.3	96.9

Manual Integrations
APPROVED

MMDadoda
4/19/2019 5:46:56 PM



#76

1,2,3-Trichloropropane

Concen: 24.919 ug/l m

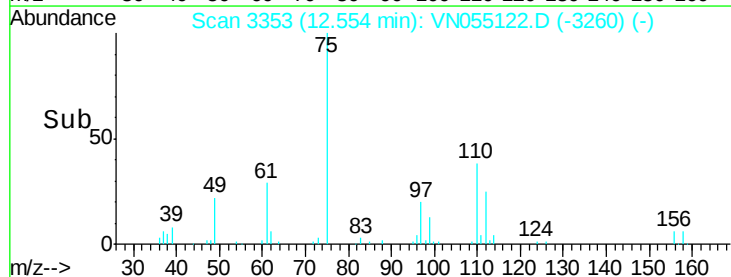
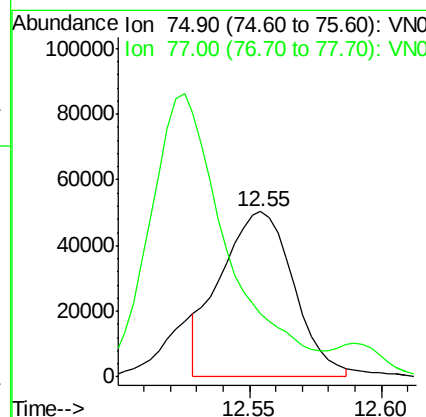
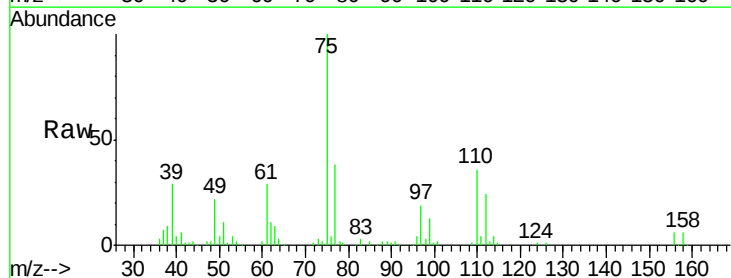
RT: 12.55 min Scan# 3353

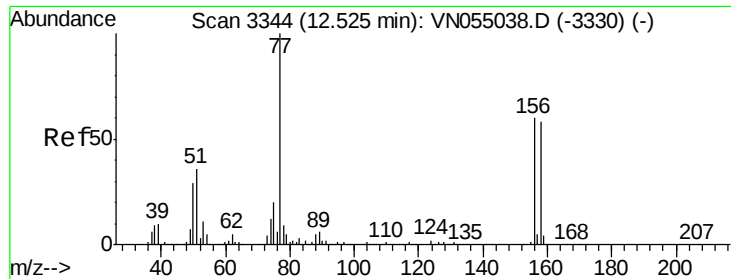
Delta R.T. 0.00 min

Lab File: VN055122.D

Acq: 18 Apr 2019 15:45

Tgt Ion:	75	Resp:	96837
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 18.542 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN055122.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_N

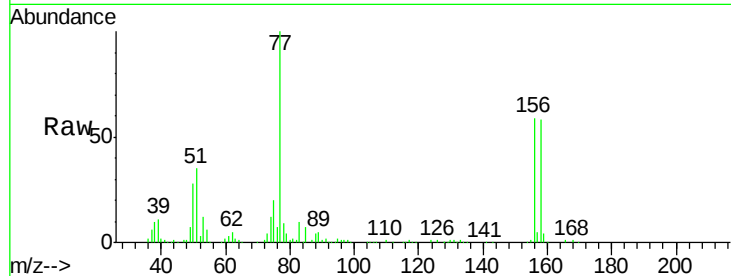
ClientSampleId :

VN0418MBS01

Tot Ion:	156	Resp:	88645
Ion Ratio	Lower	Upper	
156	100		
77	200.2	97.2	291.5
158	98.9	48.6	145.9

Manual Integrations
APPROVED

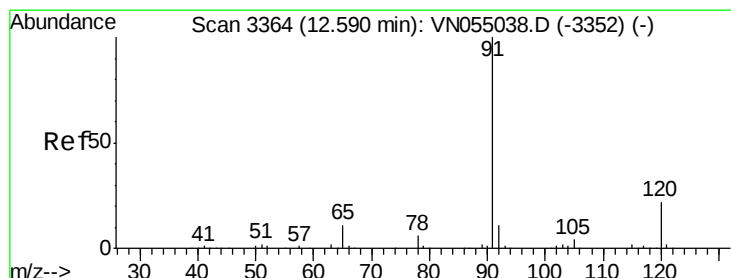
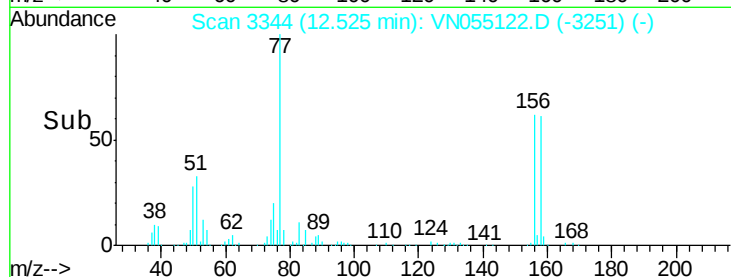
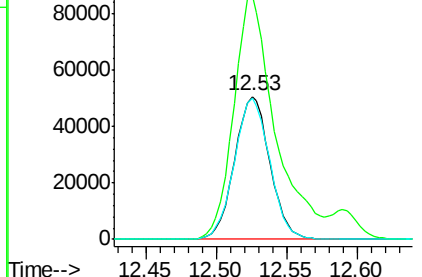
MMDadoda
4/19/2019 5:46:56 PM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 19.110 ug/l

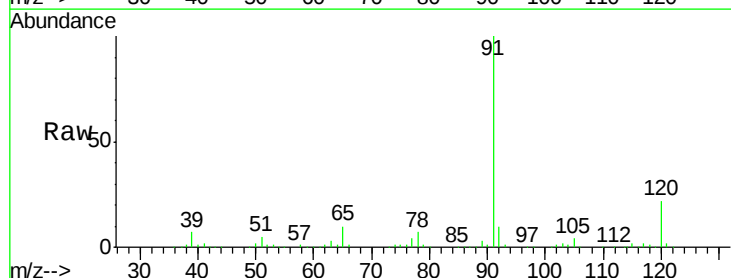
RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN055122.D

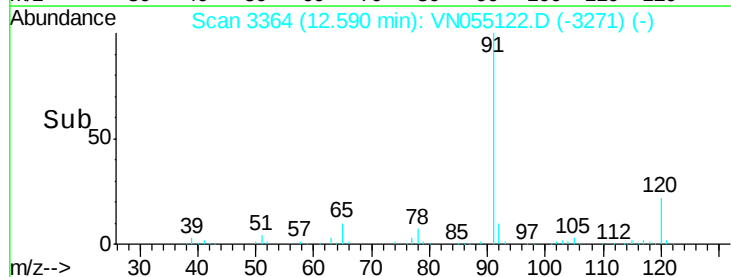
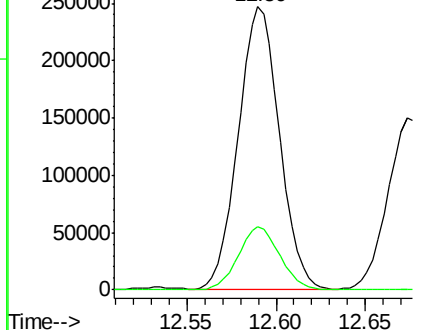
Acq: 18 Apr 2019 15:45

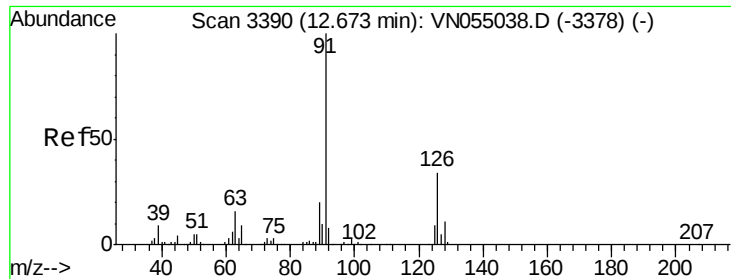
Tgt Ion:	91	Resp:	395946
Ion Ratio	Lower	Upper	
91	100		
120	22.4	11.2	33.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 19.058 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055122.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_N

ClientSampleId :

VN0418MBS01

Tot Ion: 91 Resp: 246293

Ion Ratio Lower Upper

91 100

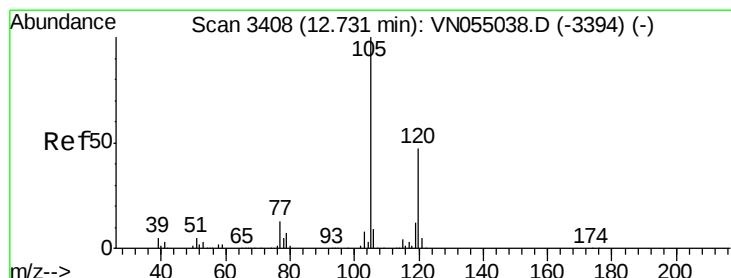
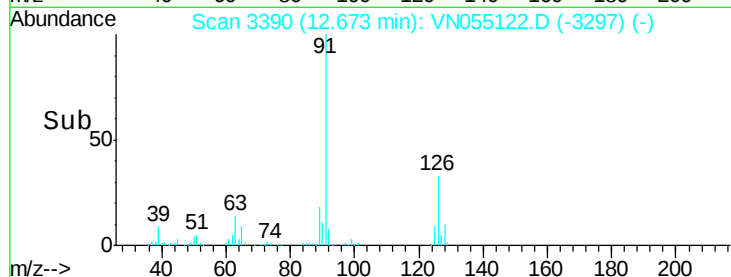
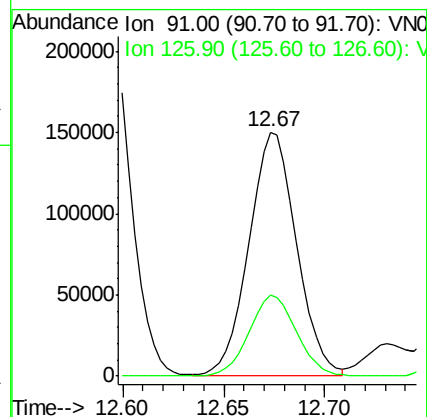
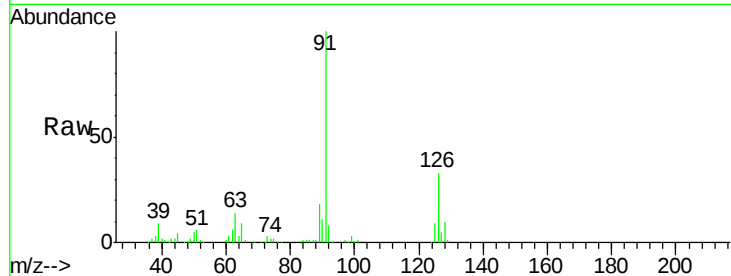
126 33.3 17.1 51.2

Manual Integrations

APPROVED

MMDadoda

4/19/2019 5:46:56 PM



#80

1,3,5-Trimethylbenzene

Concen: 19.155 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055122.D

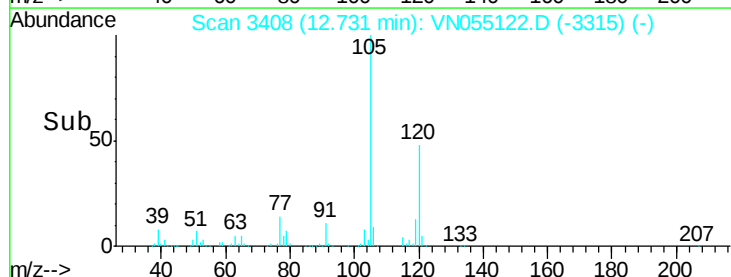
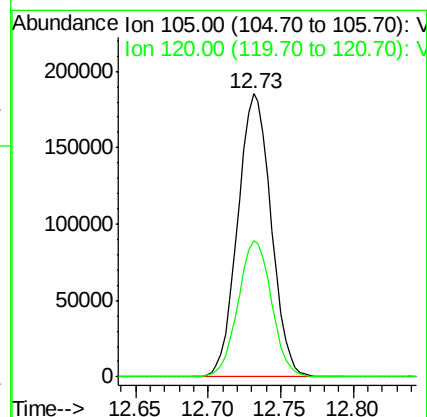
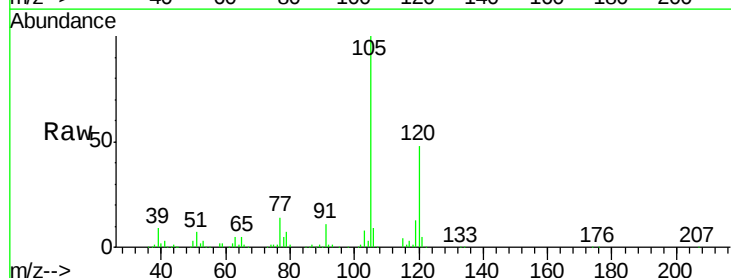
Acq: 18 Apr 2019 15:45

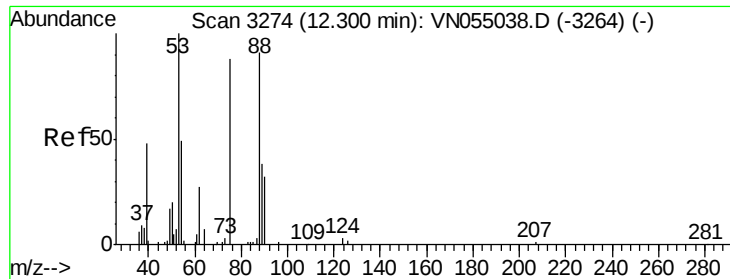
Tgt Ion: 105 Resp: 296437

Ion Ratio Lower Upper

105 100

120 48.2 24.3 72.8





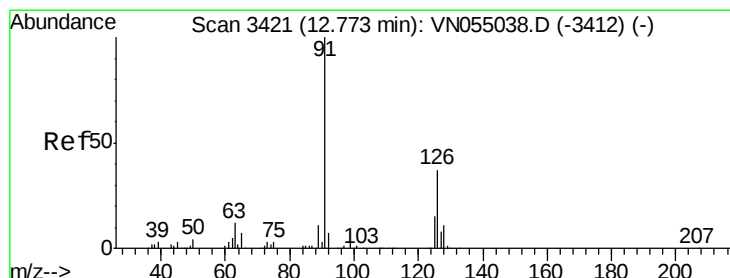
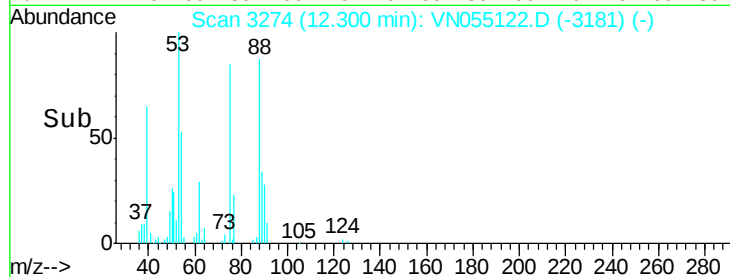
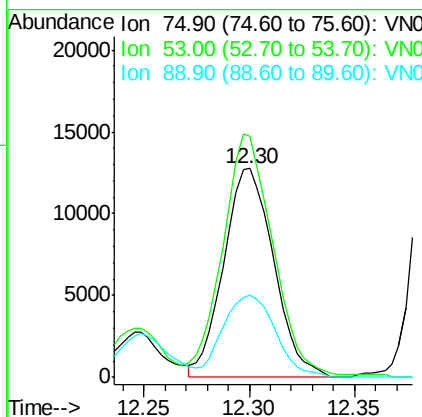
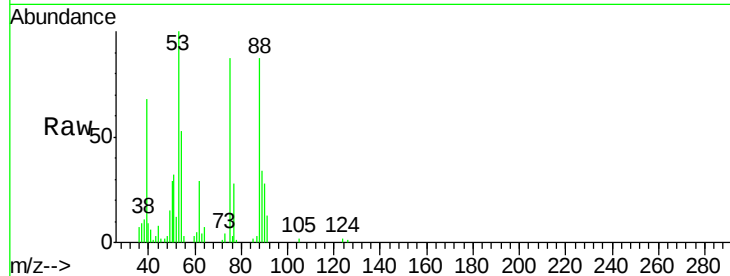
#81
trans-1,4-Dichloro-2-butene
Concen: 21.635 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Instrument :
MSVOA_N
ClientSampleId :
VN0418MBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	115.1	96.3	144.5
89	41.5	38.6	57.8

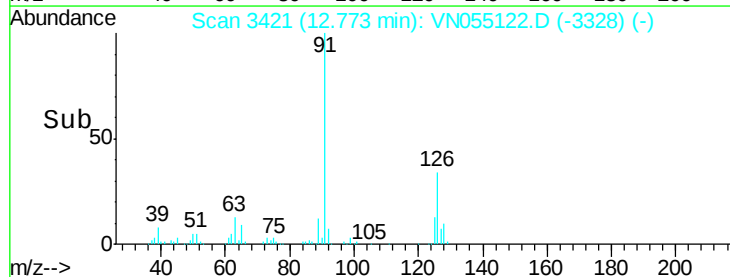
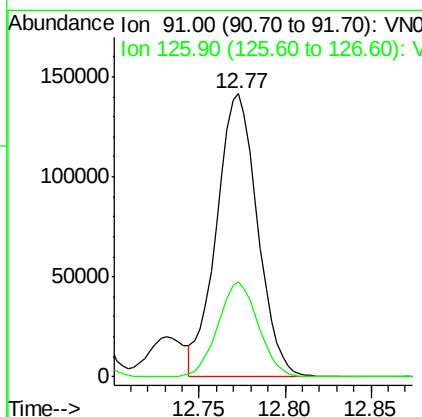
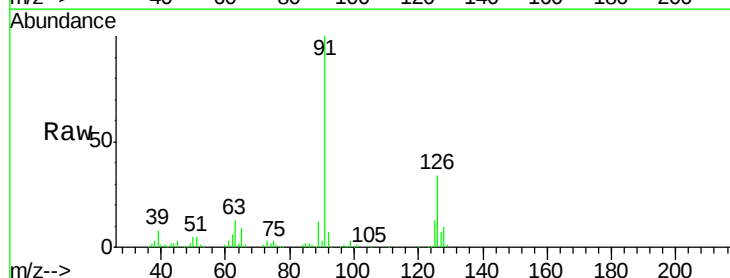
Manual Integrations
APPROVED

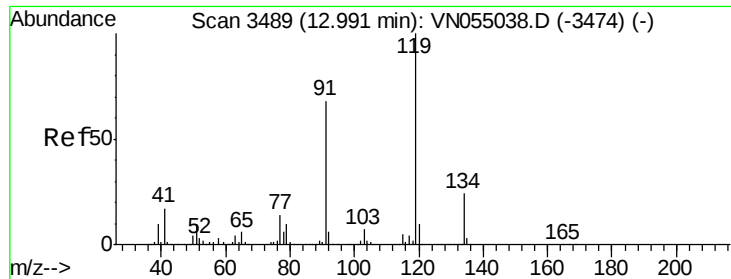
MMDadoda
4/19/2019 5:46:56 PM



#82
4-Chlorotoluene
Concen: 19.393 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.2	16.4	49.2





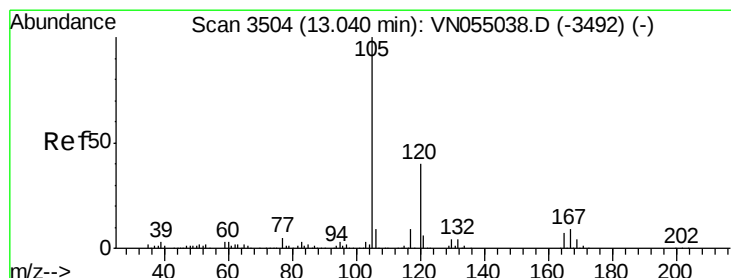
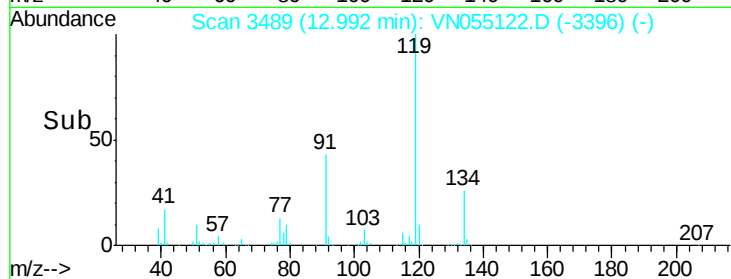
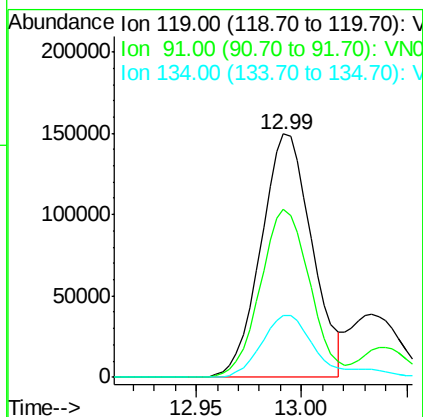
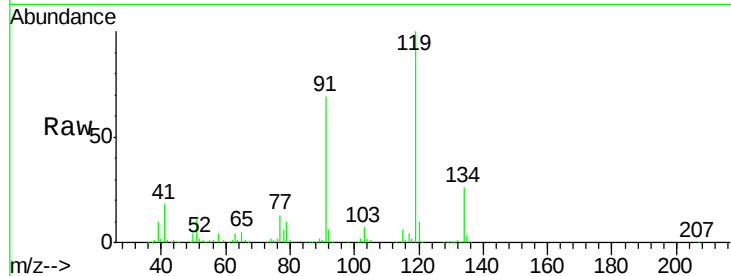
#83
tert-Butylbenzene
Concen: 19.247 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Instrument :
MSVOA_N
ClientSampleId :
VN0418MBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	251548		
91	66.9		33.3	99.8
134	27.9		12.3	36.9

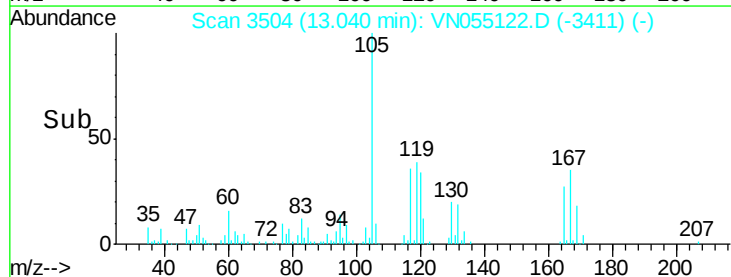
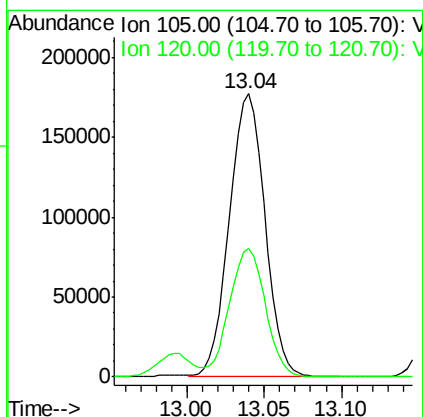
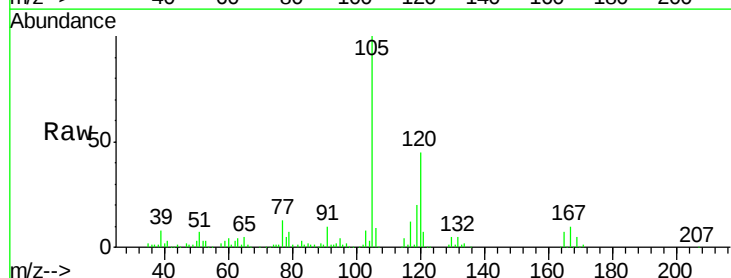
Manual Integrations
APPROVED

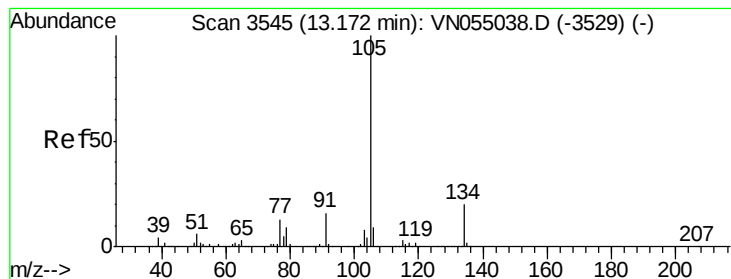
MMDadoda
4/19/2019 5:46:56 PM



#84
1,2,4-Trimethylbenzene
Concen: 19.273 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	282660		
120	45.7		22.4	67.3





#85

sec-Butylbenzene

Concen: 19.381 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN055122.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_N

ClientSampleId :

VN0418MBS01

Tot Ion:105 Resp: 322766

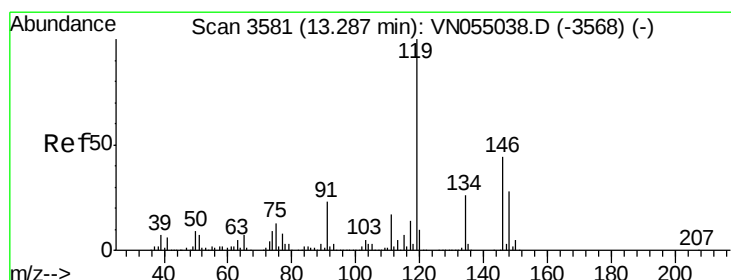
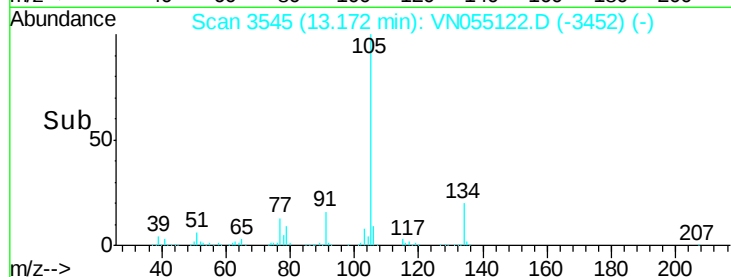
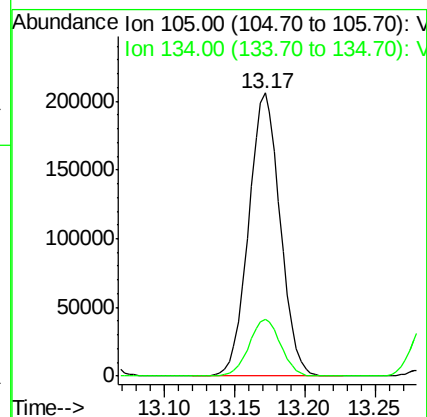
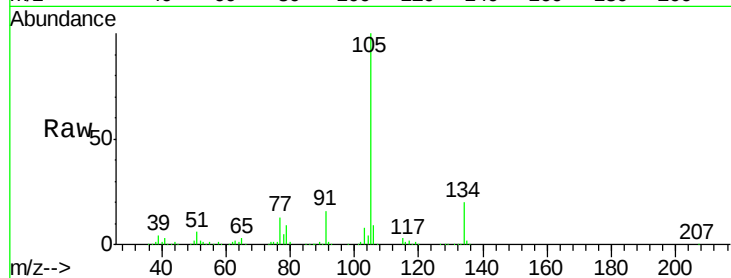
Ion Ratio Lower Upper

105 100

134 20.2 9.8 29.3

Manual Integrations
APPROVED

MMDadoda
4/19/2019 5:46:56 PM



#86

p-Isopropyltoluene

Concen: 19.233 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN055122.D

Acq: 18 Apr 2019 15:45

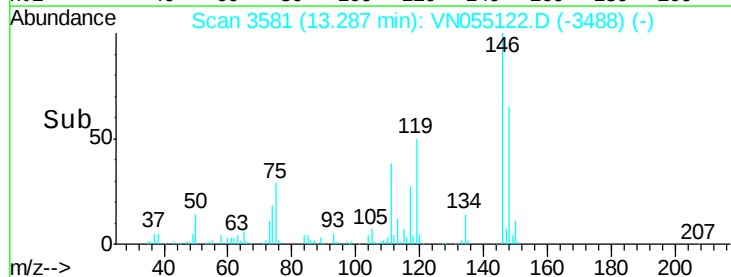
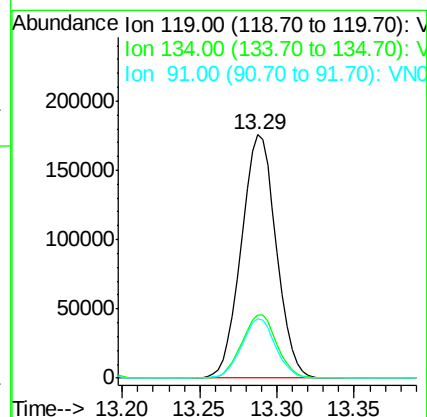
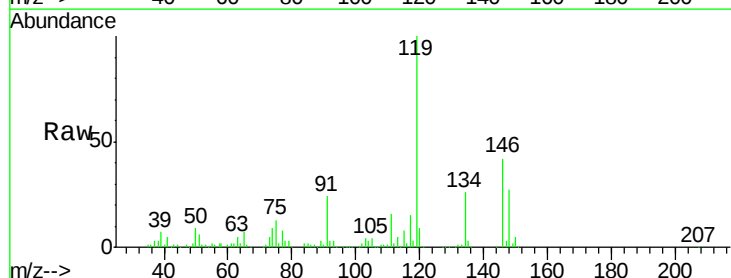
Tgt Ion:119 Resp: 274794

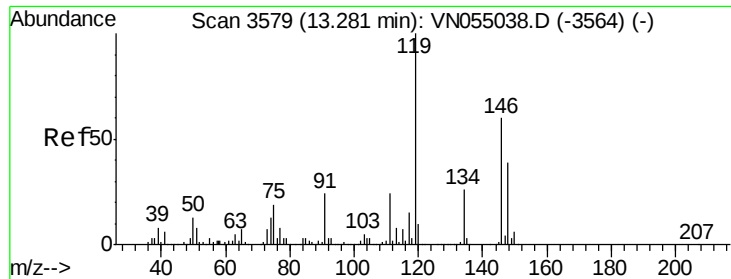
Ion Ratio Lower Upper

119 100

134 26.2 13.2 39.5

91 23.6 11.7 35.1





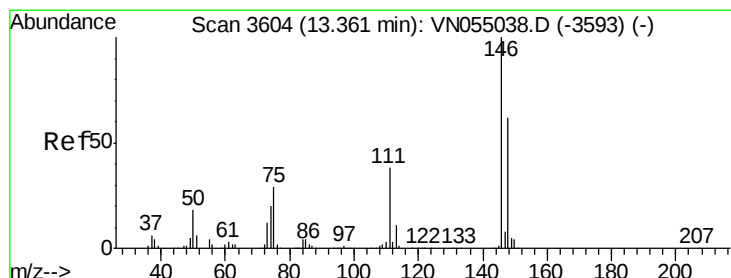
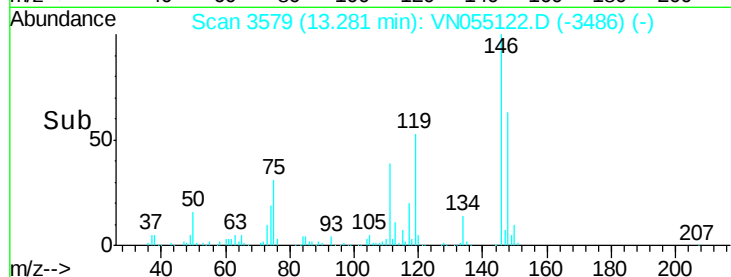
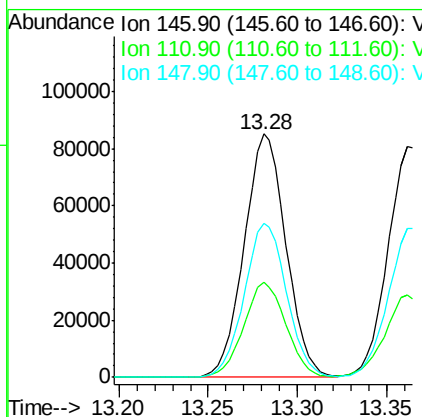
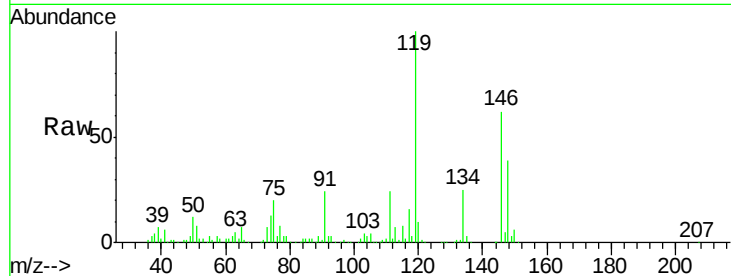
#87
 1,3-Dichlorobenzene
 Concen: 19.175 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN055122.D
 Acq: 18 Apr 2019 15:45

Instrument :
 MSVOA_N
 ClientSampled :
 VN0418MBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	139338		
111	39.3	19.5	58.5	
148	63.9	31.6	94.7	

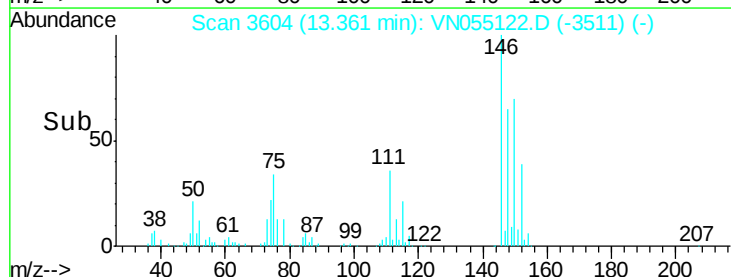
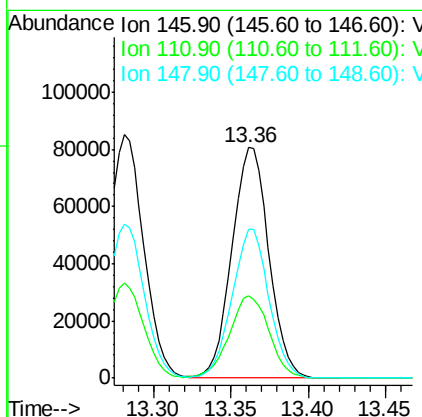
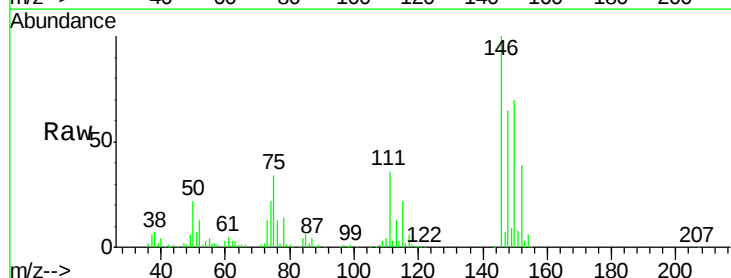
Manual Integrations
 APPROVED

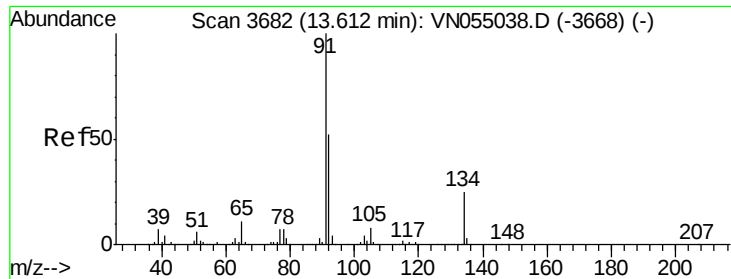
MMDadoda
 4/19/2019 5:46:56 PM



#88
 1,4-Dichlorobenzene
 Concen: 19.300 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN055122.D
 Acq: 18 Apr 2019 15:45

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	133743		
111	38.4	18.8	56.4	
148	64.2	32.4	97.2	





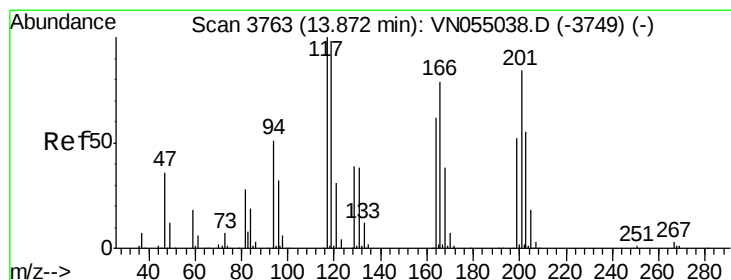
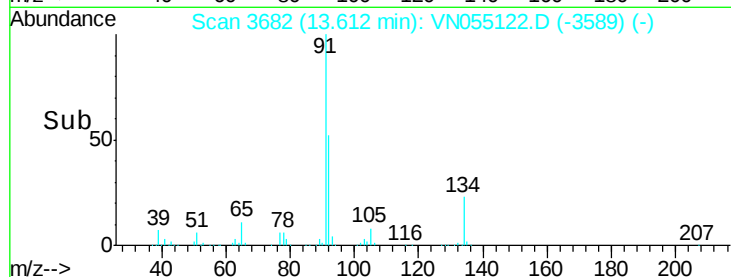
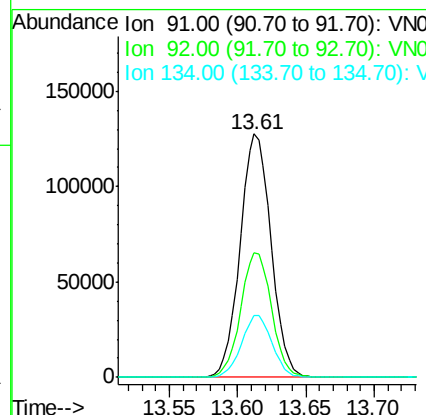
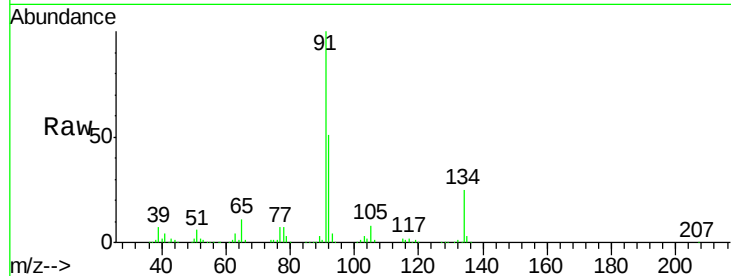
#89
n-Butylbenzene
Concen: 18.946 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Instrument :
MSVOA_N
ClientSampleId :
VN0418MBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.9	25.9	77.7
134	25.0	12.8	38.3

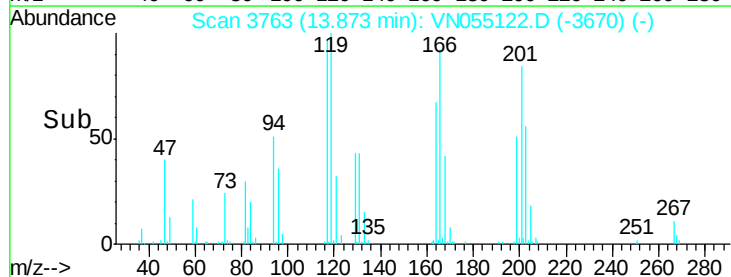
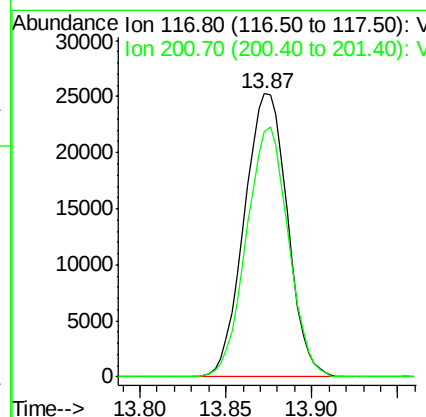
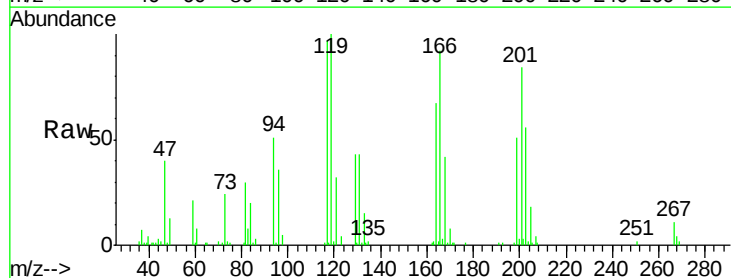
Manual Integrations
APPROVED

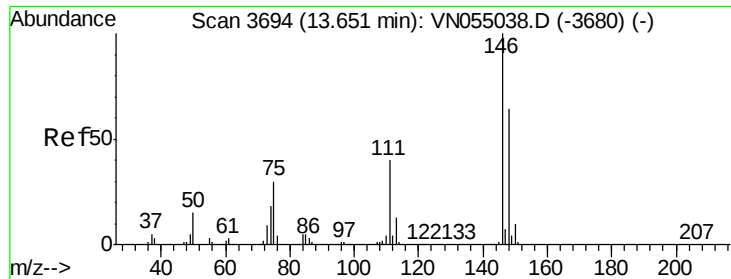
MMDadoda
4/19/2019 5:46:56 PM



#90
Hexachloroethane
Concen: 18.985 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN055122.D
Acq: 18 Apr 2019 15:45

Tgt Ion	Ratio	Lower	Upper
117	100		
201	85.7	43.4	130.2





#91

1,2-Dichlorobenzene

Concen: 19.425 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. 0.00 min

Lab File: VN055122.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_N

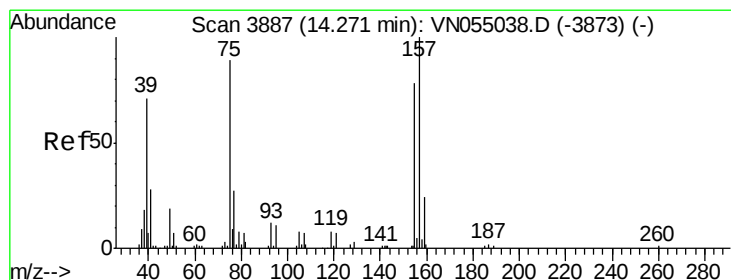
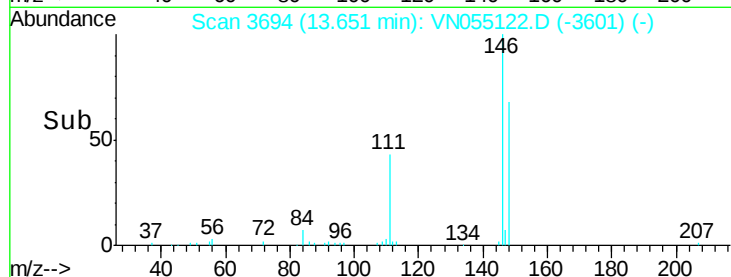
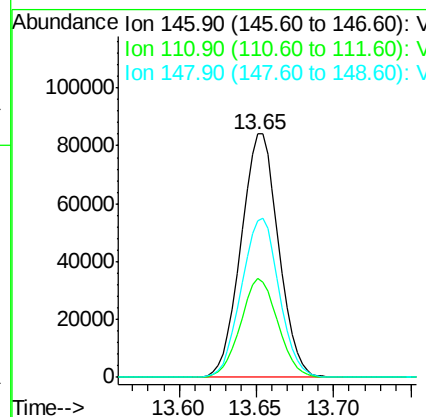
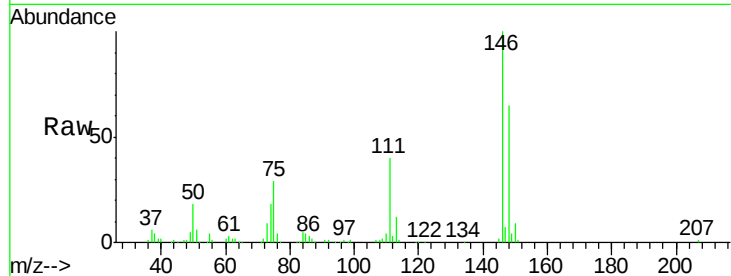
ClientSampled :

VN0418MBS01

Tot Ion:	146	Resp:	142021
Ion Ratio	Lower	Upper	
146	100		
111	40.3	20.3	60.9
148	65.8	32.2	96.6

Manual Integrations
APPROVED

MMDadoda
4/19/2019 5:46:56 PM



#92

1,2-Dibromo-3-Chloropropane

Concen: 21.091 ug/l

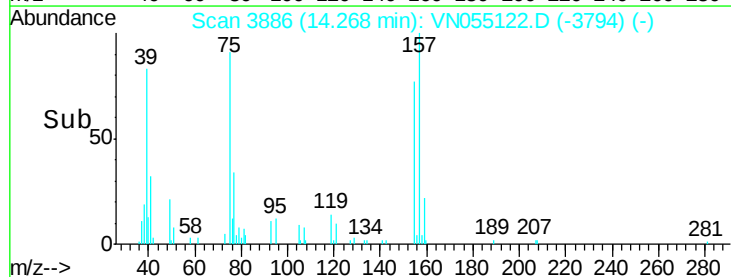
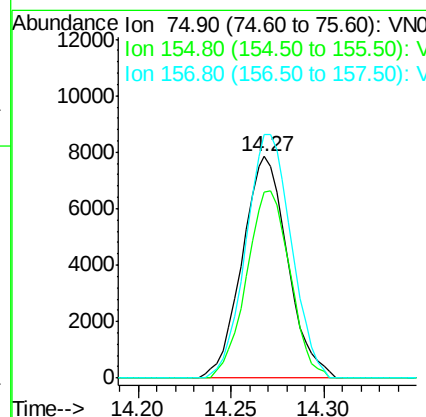
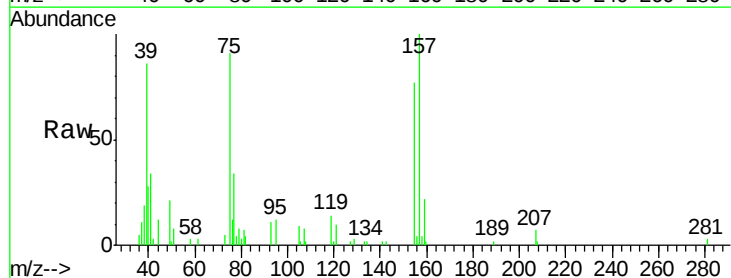
RT: 14.27 min Scan# 3886

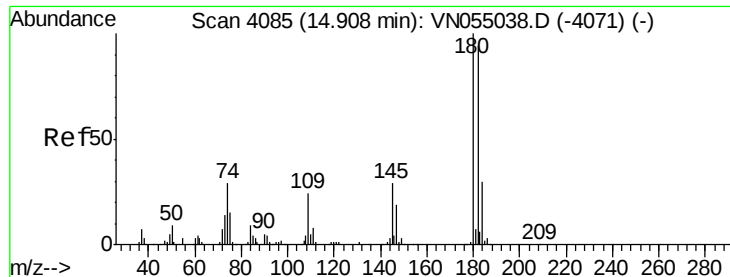
Delta R.T. -0.00 min

Lab File: VN055122.D

Acq: 18 Apr 2019 15:45

Tgt Ion:	75	Resp:	13327
Ion Ratio	Lower	Upper	
75	100		
155	80.8	42.0	126.0
157	109.9	52.1	156.4





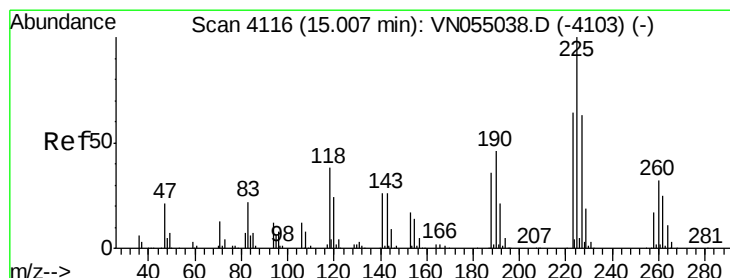
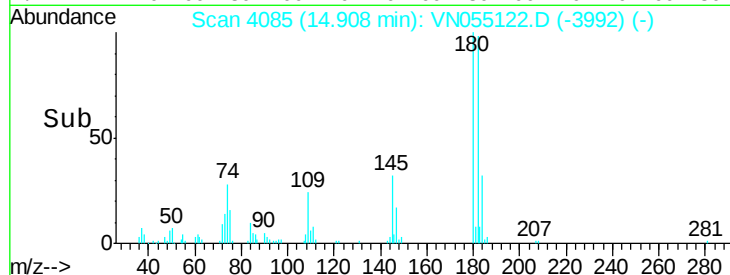
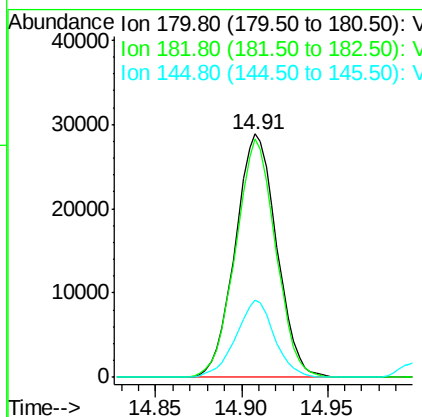
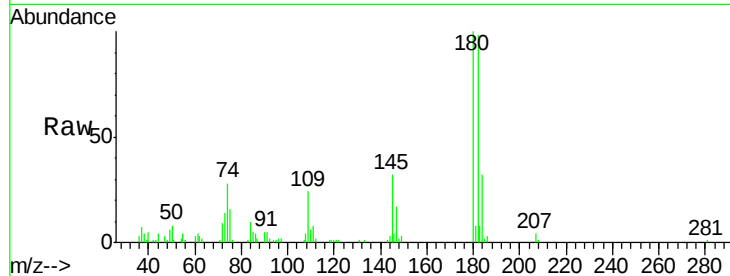
#93
 1,2,4-Trichlorobenzene
 Concen: 16.430 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055122.D
 Acq: 18 Apr 2019 15:45

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0418MBS01

Tot Ion:180	Resp:	48158
Ion Ratio	Lower	Upper
180	100	
182	94.8	47.5 142.6
145	29.6	14.2 42.8

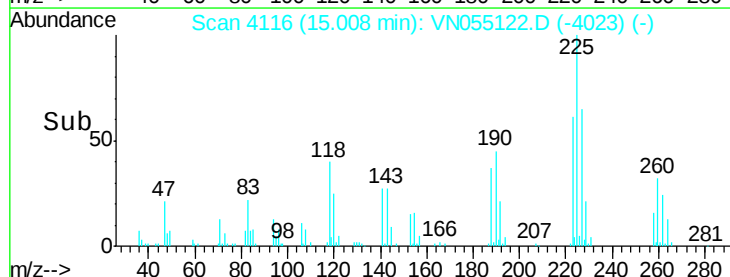
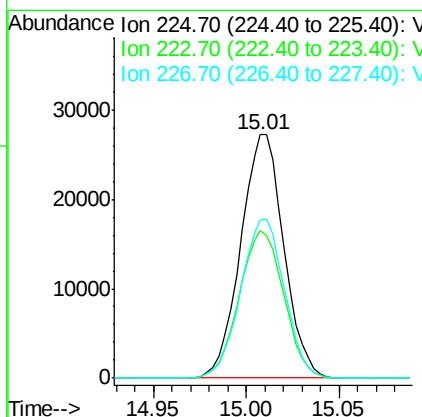
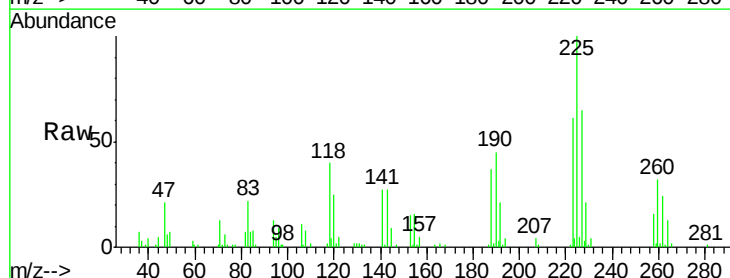
Manual Integrations
 APPROVED

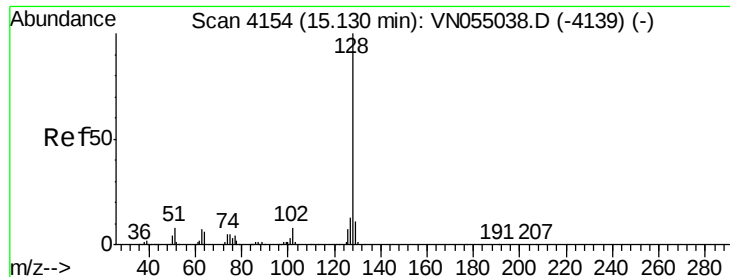
MMDadoda
 4/19/2019 5:46:56 PM



#94
 Hexachlorobutadiene
 Concen: 19.404 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055122.D
 Acq: 18 Apr 2019 15:45

Tgt Ion:225	Resp:	43818
Ion Ratio	Lower	Upper
225	100	
223	62.5	31.4 94.0
227	66.3	32.6 97.7





#95

Naphthalene

Concen: 16.737 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN055122.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_N

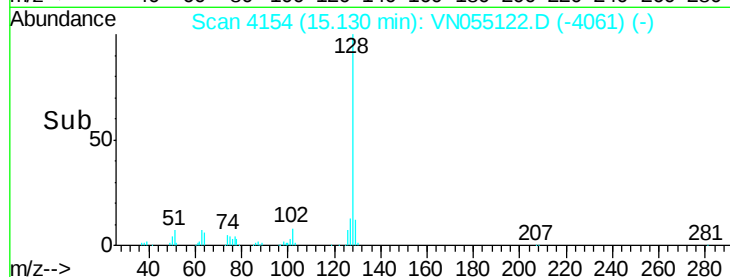
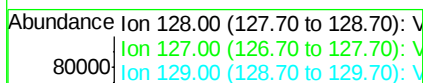
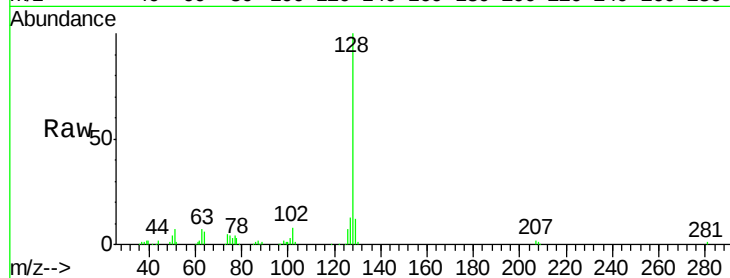
ClientSampleId :

VN0418MBS01

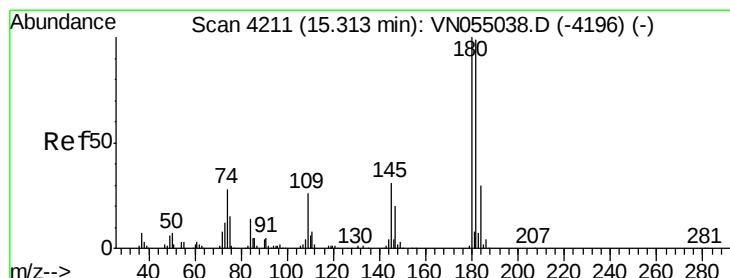
Tot Ion:	128	Resp:	112845
Ion Ratio	Lower	Upper	
128	100		
127	12.1	10.1	15.1
129	11.0	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
4/19/2019 5:46:56 PM



Time--> 15.05 15.10 15.15 15.20



#96

1,2,3-Trichlorobenzene

Concen: 18.963 ug/l

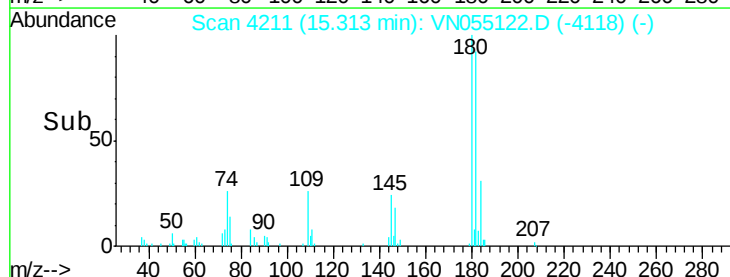
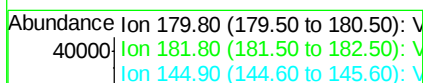
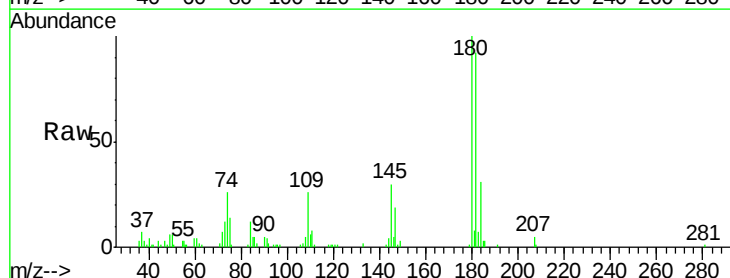
RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN055122.D

Acq: 18 Apr 2019 15:45

Tgt Ion:	180	Resp:	53485
Ion Ratio	Lower	Upper	
180	100		
182	93.8	48.0	144.0
145	30.1	15.3	45.9



Time--> 15.25 15.30 15.35