

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032419\
 Data File : VN054649.D
 Acq On : 24 Mar 2019 15:41
 Operator : JC/SP
 Sample : VN0324MBSD01
 Misc : 5.00µg/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0324MBSD01

Manual Integrations
 APPROVED

MMDadoda
 3/25/2019 9:54:55 AM

Quant Time: Mar 25 07:21:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	436168	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	731953	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	634359	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	269851	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	300712	55.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.86%	
35) Dibromofluoromethane	7.59	113	233440	49.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.00%	
50) Toluene-d8	10.09	98	878915	49.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.16%	
62) 4-Bromofluorobenzene	12.40	95	294853	48.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.76%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.85	85	94353	22.629	ug/l	98
3) Chloromethane	2.06	50	124491	21.944	ug/l	99
4) Vinyl Chloride	2.19	62	110974	19.483	ug/l	99
5) Bromomethane	2.58	94	63821	17.328	ug/l	96
6) Chloroethane	2.71	64	62416	18.270	ug/l	96
7) Trichlorofluoromethane	3.03	101	140720	20.344	ug/l	99
8) Diethyl Ether	3.41	74	48135	18.094	ug/l	70
9) 1,1,2-Trichlorotrifluoroet	3.75	101	75386	18.544	ug/l	94
10) Methyl Iodide	3.95	142	103969	17.386	ug/l #	90
11) Tert butyl alcohol	4.81	59	32951	100.321	ug/l #	70
12) 1,1-Dichloroethene	3.73	96	74538	17.718	ug/l #	80
13) Acrolein	3.61	56	21076	46.497	ug/l	91
14) Allyl chloride	4.32	41	169149	21.352	ug/l #	90
15) Acrylonitrile	5.00	53	183399	112.124	ug/l	100
16) Acetone	3.82	43	131555	80.654	ug/l #	82
17) Carbon Disulfide	4.04	76	185963	16.497	ug/l	97
18) Methyl Acetate	4.33	43	83478	22.962	ug/l #	89
19) Methyl tert-butyl Ether	5.05	73	268155	21.841	ug/l	94
20) Methylene Chloride	4.55	84	103835	21.596	ug/l #	84
21) trans-1,2-Dichloroethene	5.04	96	93005	21.650	ug/l	86
22) Diisopropyl ether	5.96	45	367761	23.535	ug/l #	95
23) Vinyl Acetate	5.90	43	1244667	112.780	ug/l #	92
24) 1,1-Dichloroethane	5.85	63	192933	22.931	ug/l	100
25) 2-Butanone	6.85	43	221968	106.234	ug/l	90
26) 2,2-Dichloropropane	6.82	77	117419	19.578	ug/l	97
27) cis-1,2-Dichloroethene	6.83	96	109559	21.382	ug/l	88
28) Bromochloromethane	7.19	49	96657	23.339	ug/l #	73
29) Tetrahydrofuran	7.22	42	153474	113.189	ug/l #	84
30) Chloroform	7.37	83	182185	22.188	ug/l	99
31) Cyclohexane	7.65	56	182136	21.535	ug/l	90
32) 1,1,1-Trichloroethane	7.57	97	146720	21.659	ug/l	95
36) 1,1-Dichloropropene	7.79	75	137322	20.065	ug/l	94
37) Ethyl Acetate	6.94	43	101716	20.897	ug/l	95
38) Carbon Tetrachloride	7.77	117	124376	18.701	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032419\
 Data File : VN054649.D
 Acq On : 24 Mar 2019 15:41
 Operator : JC/SP
 Sample : VN0324MBSD01
 Misc : 5.00µg/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0324MBSD01

Manual Integrations
 APPROVED

MMDadoda
 3/25/2019 9:54:55 AM

Quant Time: Mar 25 07:21:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	151633	19.369	ug/l	91
40) Benzene	8.04	78	404526	20.670	ug/l	99
41) Methacrylonitrile	7.17	41	65283	21.992	ug/l #	84
42) 1,2-Dichloroethane	8.13	62	147861	20.746	ug/l	98
43) Isopropyl Acetate	8.17	43	169453	20.613	ug/l #	95
44) Trichloroethene	8.83	130	105005	19.299	ug/l	91
45) 1,2-Dichloropropane	9.12	63	116517	22.172	ug/l	99
46) Dibromomethane	9.21	93	64750	20.654	ug/l	88
47) Bromodichloromethane	9.40	83	130610	20.074	ug/l	94
48) Methyl methacrylate	9.20	41	90778	20.345	ug/l #	85
49) 1,4-Dioxane	9.20	88	18575	372.387	ug/l #	87
51) 4-Methyl-2-Pentanone	9.99	43	485331	106.528	ug/l	94
52) Toluene	10.16	92	241480	20.062	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	112944	17.953	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	146743	19.670	ug/l	93
55) 1,1,2-Trichloroethane	10.56	97	88468	20.447	ug/l	96
56) Ethyl methacrylate	10.43	69	114038	19.637	ug/l #	79
57) 1,3-Dichloropropane	10.71	76	158796	21.113	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	192737	80.598	ug/l	90
59) 2-Hexanone	10.75	43	299364	100.597	ug/l	90
60) Dibromochloromethane	10.90	129	86210	18.725	ug/l	99
61) 1,2-Dibromoethane	11.00	107	83434	19.505	ug/l	99
64) Tetrachloroethene	10.63	164	104877	19.932	ug/l	97
65) Chlorobenzene	11.43	112	260546	20.194	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.51	131	89598	19.348	ug/l	97
67) Ethyl Benzene	11.51	91	466507	20.469	ug/l	98
68) m/p-Xylenes	11.62	106	343370	39.776	ug/l	96
69) o-Xylene	11.95	106	170980	20.281	ug/l	97
70) Styrene	11.96	104	276257	20.179	ug/l	96
71) Bromoform	12.13	173	49846	17.140	ug/l #	97
73) Isopropylbenzene	12.25	105	451107	20.745	ug/l	98
74) N-amyl acetate	12.07	43	136593	21.846	ug/l	92
75) 1,1,2,2-Tetrachloroethane	12.50	83	105917	21.338	ug/l	97
76) 1,2,3-Trichloropropane	12.55	75	89941m	21.004	ug/l	
77) Bromobenzene	12.53	156	109352	20.276	ug/l	88
78) n-propylbenzene	12.59	91	487863	20.690	ug/l	96
79) 2-Chlorotoluene	12.67	91	299213	20.349	ug/l	95
80) 1,3,5-Trimethylbenzene	12.73	105	369539	20.735	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.30	75	16892	15.908	ug/l #	63
82) 4-Chlorotoluene	12.77	91	287597	20.178	ug/l	97
83) tert-Butylbenzene	12.99	119	321492	20.724	ug/l	97
84) 1,2,4-Trimethylbenzene	13.04	105	358184	20.483	ug/l	97
85) sec-Butylbenzene	13.17	105	397275	20.543	ug/l	97
86) p-Isopropyltoluene	13.29	119	350734	20.272	ug/l	98
87) 1,3-Dichlorobenzene	13.28	146	176287	19.725	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	170719	19.633	ug/l	98
89) n-Butylbenzene	13.61	91	270754	20.014	ug/l	98
90) Hexachloroethane	13.87	117	47815	17.804	ug/l	93
91) 1,2-Dichlorobenzene	13.65	146	181088	20.919	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.27	75	13922	19.121	ug/l	87

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032419\
Data File : VN054649.D
Acq On : 24 Mar 2019 15:41
Operator : JC/SP
Sample : VN0324MBSD01
Misc : 5.00µ/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0324MBSD01

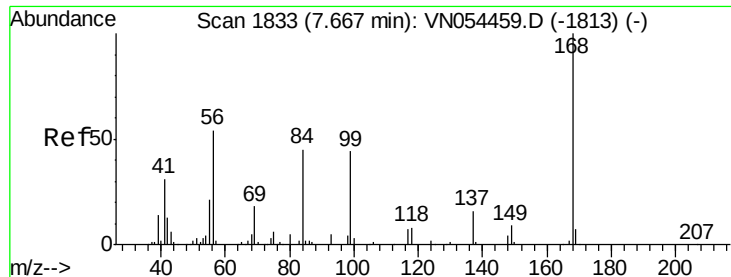
Manual Integrations
APPROVED

MMDadoda
3/25/2019 9:54:55 AM

Quant Time: Mar 25 07:21:38 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
Quant Title : SW846 8260
QLast Update : Fri Mar 22 02:09:07 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	82001	19.002	ug/l	99
94) Hexachlorobutadiene	15.01	225	53982	20.818	ug/l	98
95) Naphthalene	15.13	128	185450	19.267	ug/l	98
96) 1,2,3-Trichlorobenzene	15.31	180	85819	19.981	ug/l	97

(#) = 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: VN054649.D

Acq: 24 Mar 2019 15:41

Instrument :

MSVOA_N

ClientSampleId :

VN0324MBSD01

Tot Ion:168 Resp: 436168

Ion Ratio Lower Upper

168 100

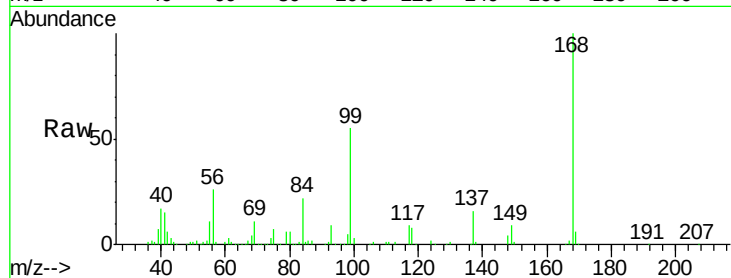
99 53.4 37.1 55.7

Manual Integrations

APPROVED

MMDadoda

3/25/2019 9:54:55 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

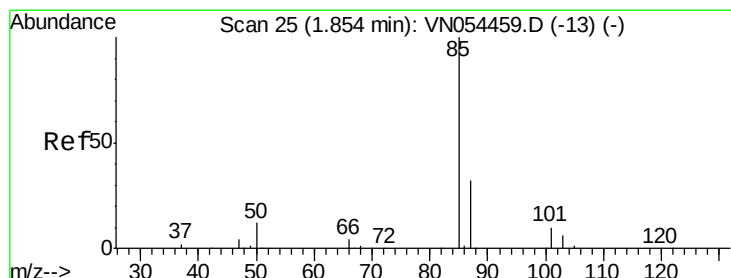
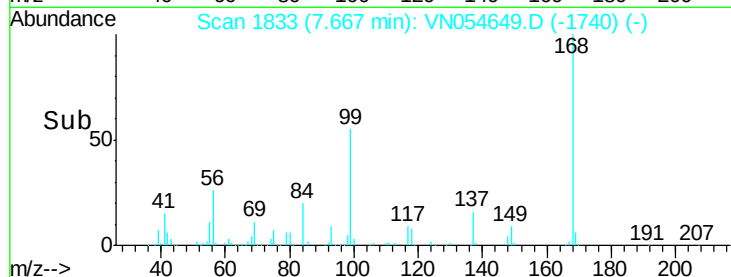
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 22.629 ug/l

RT: 1.85 min Scan# 25

Delta R.T. -0.00 min

Lab File: VN054649.D

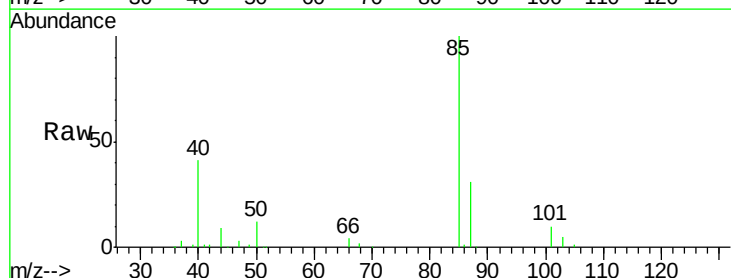
Acq: 24 Mar 2019 15:41

Tgt Ion: 85 Resp: 94353

Ion Ratio Lower Upper

85 100

87 30.9 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

80000

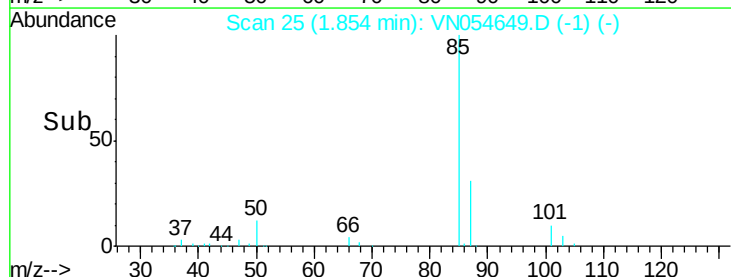
60000

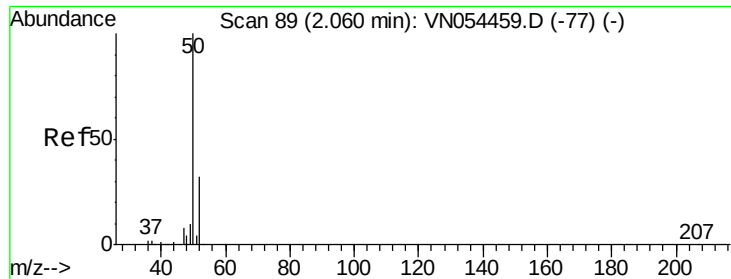
40000

20000

0

Time-->





#3

Chloromethane

Concen: 21.944 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN054649.D

Acq: 24 Mar 2019 15:41

Instrument :

MSVOA_N

ClientSampleId :

VN0324MBSD01

Tot Ion: 50 Resp: 124491

Ion Ratio Lower Upper

50 100

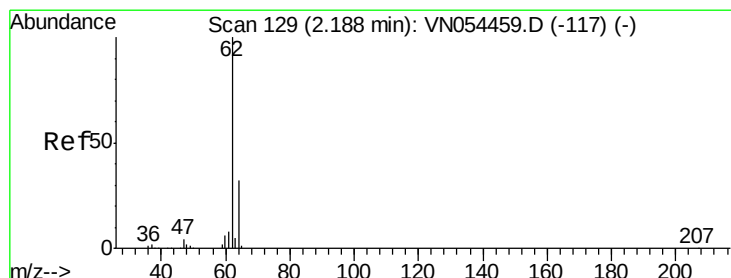
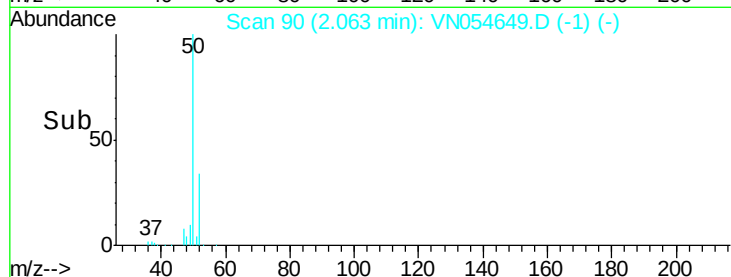
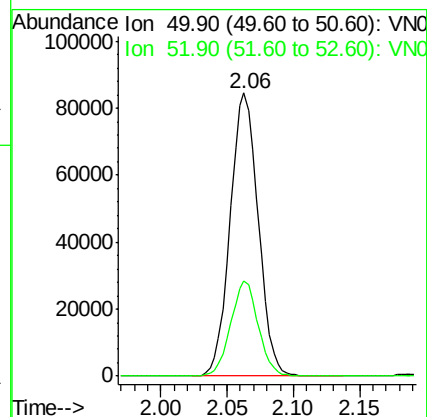
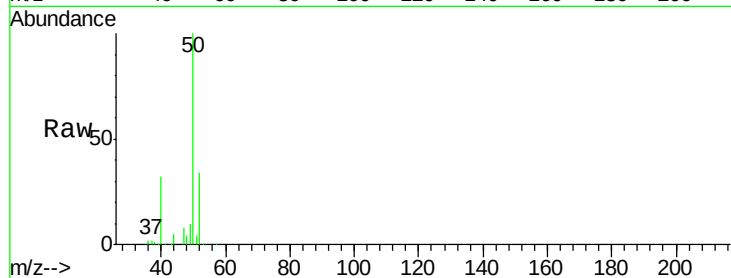
52 33.7 26.4 39.6

Manual Integrations

APPROVED

MMDadoda

3/25/2019 9:54:55 AM



#4

Vinyl Chloride

Concen: 19.483 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN054649.D

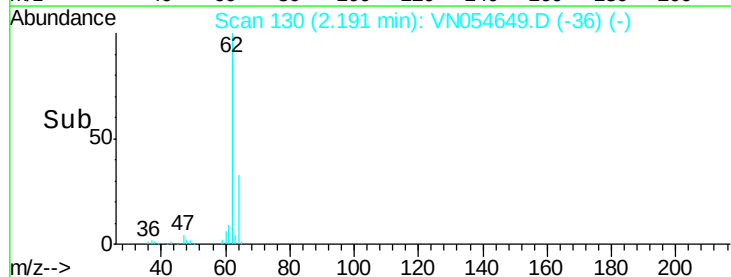
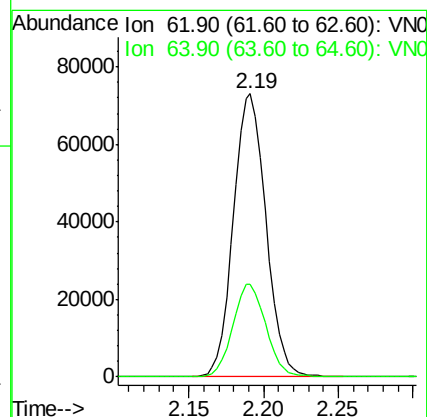
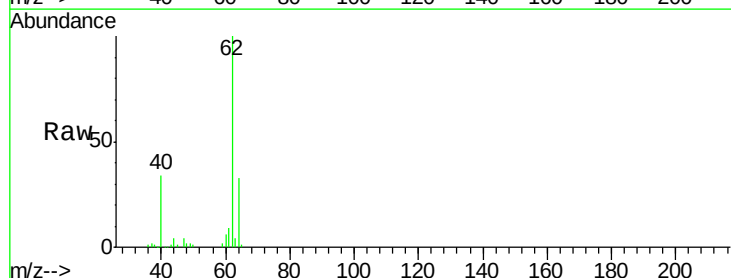
Acq: 24 Mar 2019 15:41

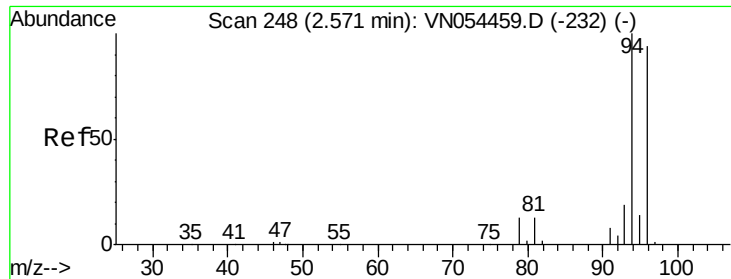
Tgt Ion: 62 Resp: 110974

Ion Ratio Lower Upper

62 100

64 32.7 25.5 38.3





#5

Bromomethane

Concen: 17.328 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.01 min

Lab File: VN054649.D

Acq: 24 Mar 2019 15:41

Instrument :

MSVOA_N

ClientSampleId :

VN0324MBSD01

Tot Ion: 94 Resp: 63821

Ion Ratio Lower Upper

94 100

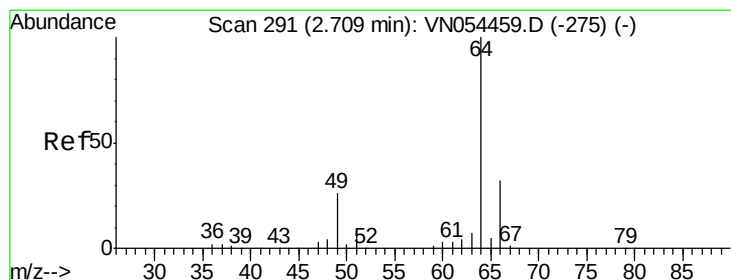
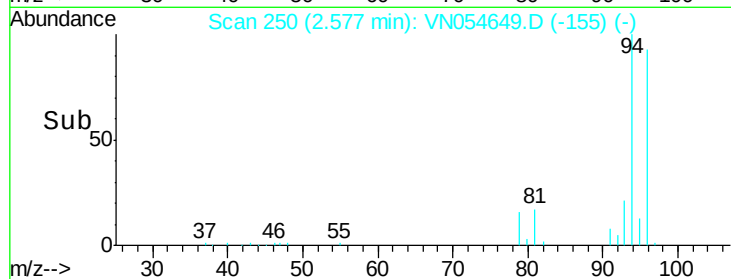
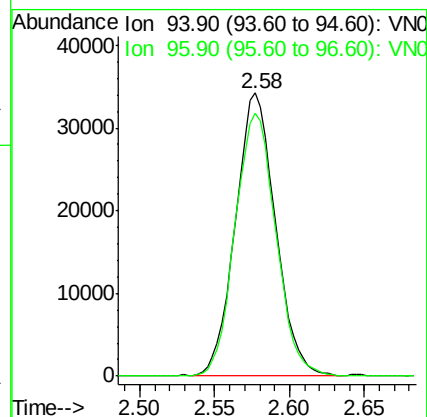
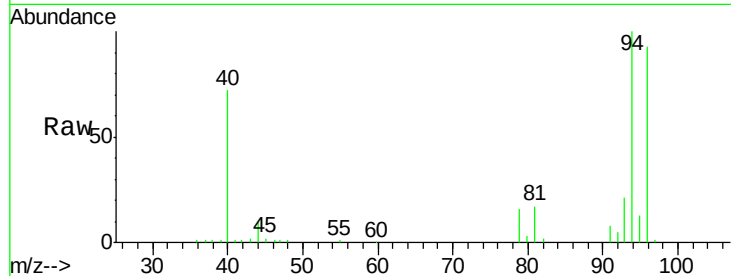
96 92.8 77.0 115.4

Manual Integrations

APPROVED

MMDadoda

3/25/2019 9:54:55 AM



#6

Chloroethane

Concen: 18.270 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN054649.D

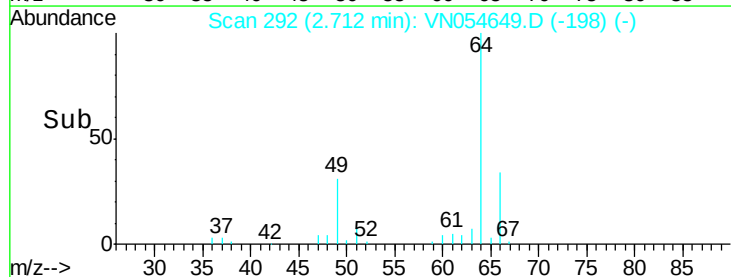
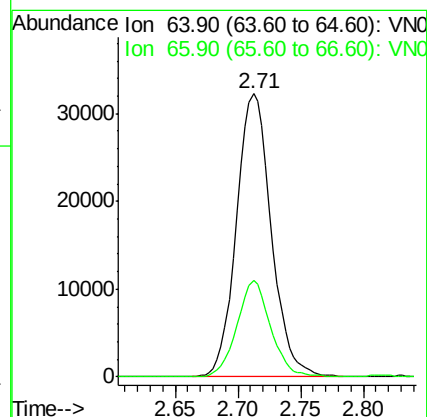
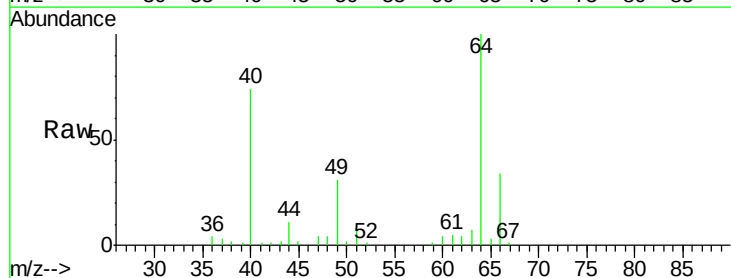
Acq: 24 Mar 2019 15:41

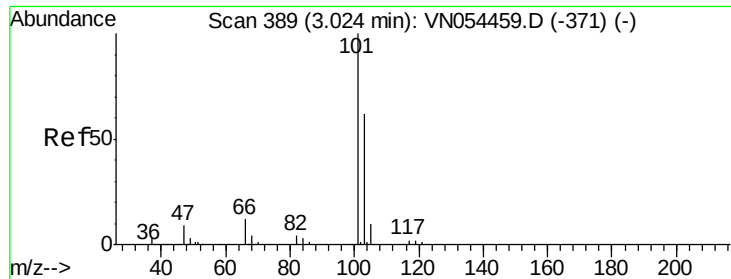
Tgt Ion: 64 Resp: 62416

Ion Ratio Lower Upper

64 100

66 34.2 25.7 38.5





#7

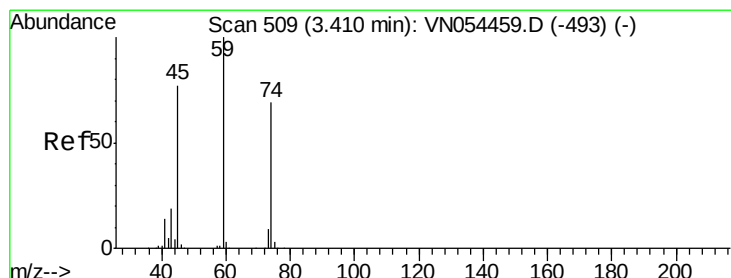
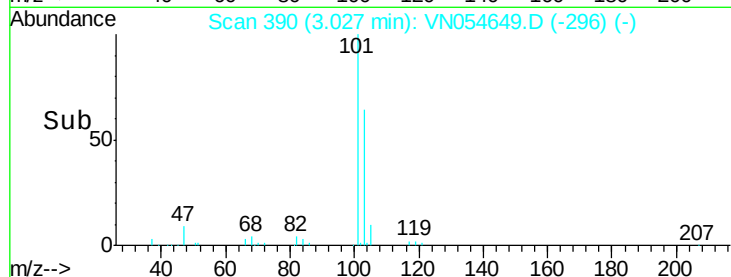
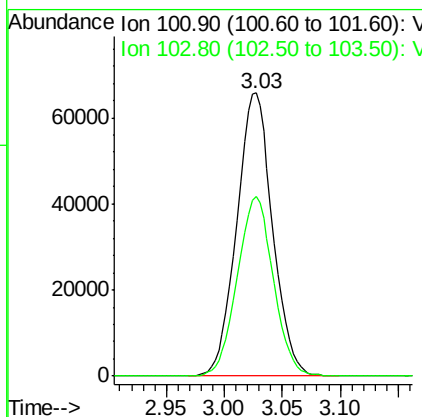
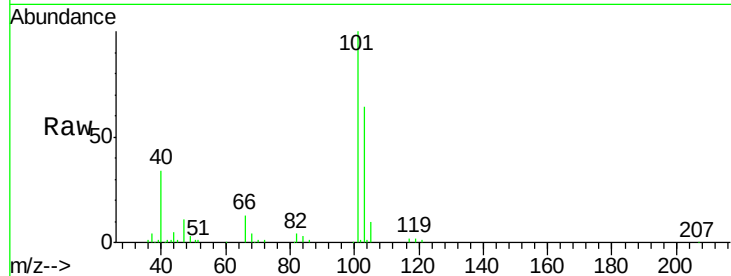
Trichlorofluoromethane
 Concen: 20.344 ug/l
 RT: 3.03 min Scan# 390
 Delta R.T. 0.00 min
 Lab File: VN054649.D
 Acq: 24 Mar 2019 15:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0324MBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.7	51.4	77.2

Manual Integrations
 APPROVED

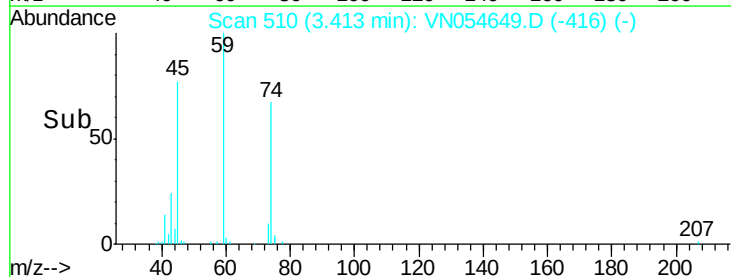
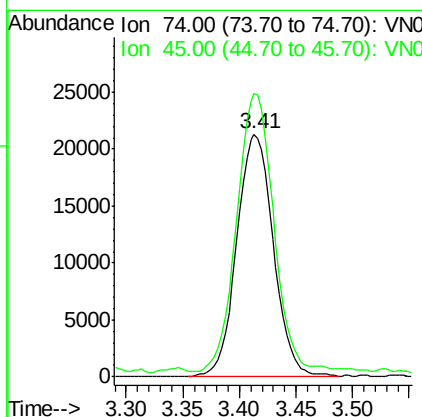
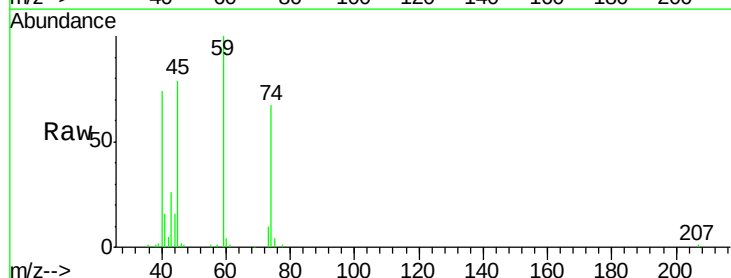
MMDadoda
 3/25/2019 9:54:55 AM

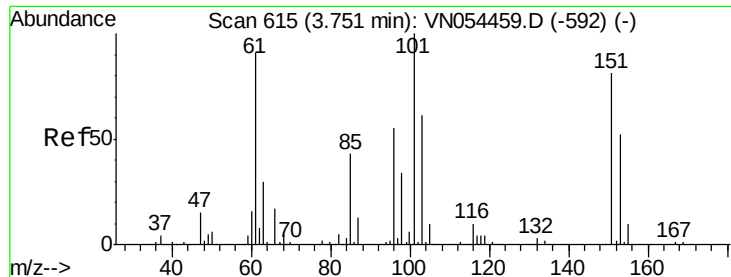


#8

Diethyl Ether
 Concen: 18.094 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN054649.D
 Acq: 24 Mar 2019 15:41

Tgt Ion	Ratio	Lower	Upper
74	100		
45	113.9	43.1	129.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.544 ug/l

RT: 3.75 min Scan# 616

Delta R.T. 0.00 min

Lab File: VN054649.D

Acq: 24 Mar 2019 15:41

Instrument :

MSVOA_N

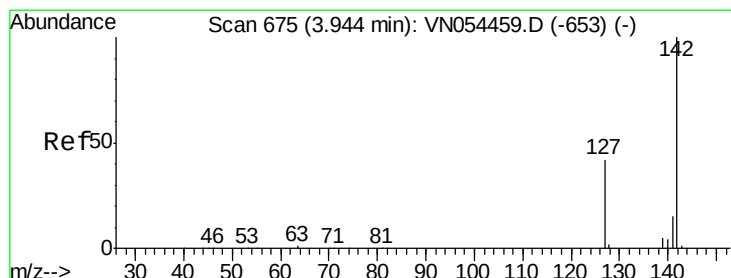
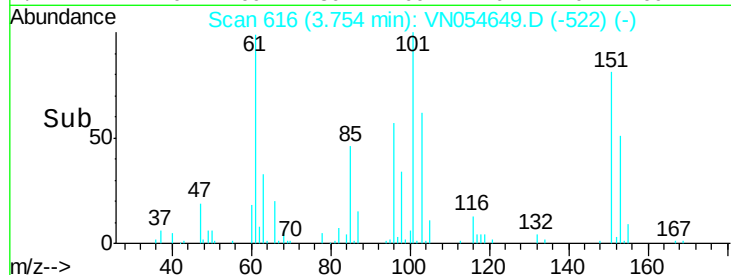
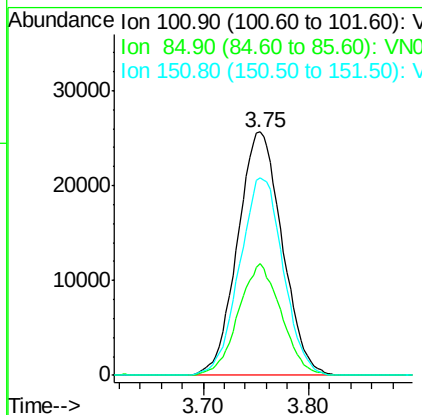
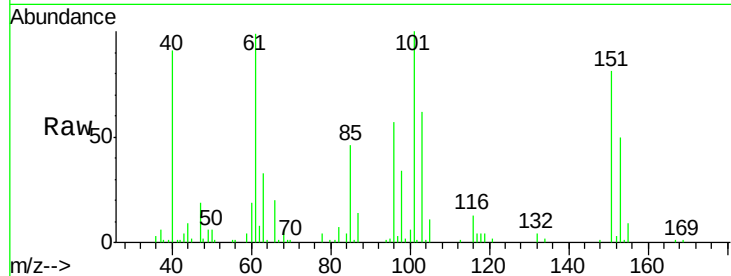
ClientSampleId :

VN0324MBSD01

Tot Ion:	101	Resp:	75386
Ion Ratio	Lower	Upper	
101	100		
85	44.2	32.4	48.6
151	79.6	68.2	102.2

Manual Integrations
APPROVED

MMDadoda
3/25/2019 9:54:55 AM



#10

Methyl Iodide

Concen: 17.386 ug/l

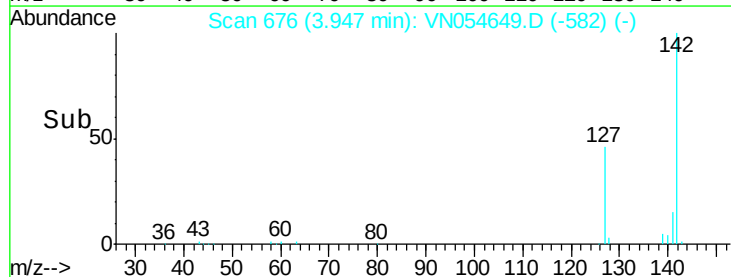
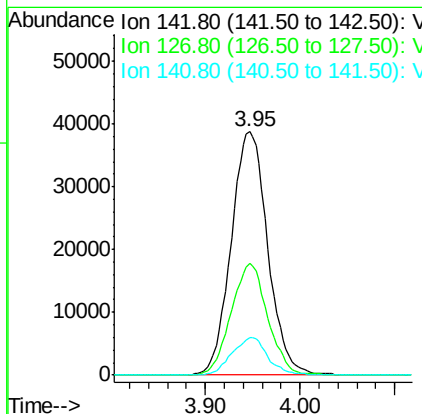
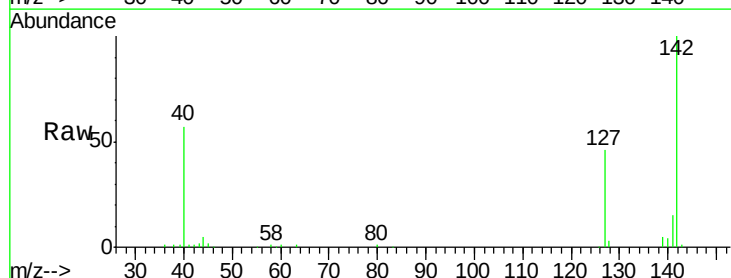
RT: 3.95 min Scan# 676

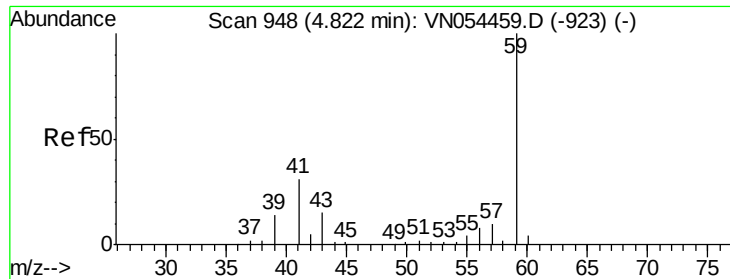
Delta R.T. 0.00 min

Lab File: VN054649.D

Acq: 24 Mar 2019 15:41

Tgt Ion:	142	Resp:	103969
Ion Ratio	Lower	Upper	
142	100		
127	45.9	30.3	45.5#
141	15.1	11.2	16.8





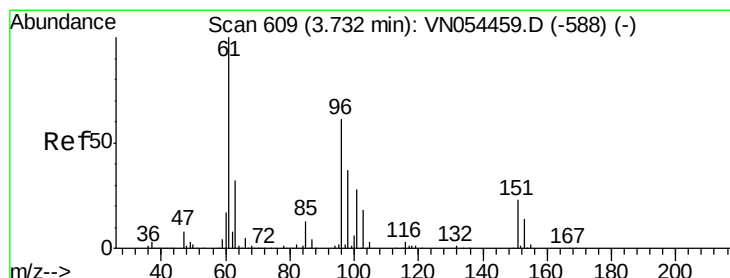
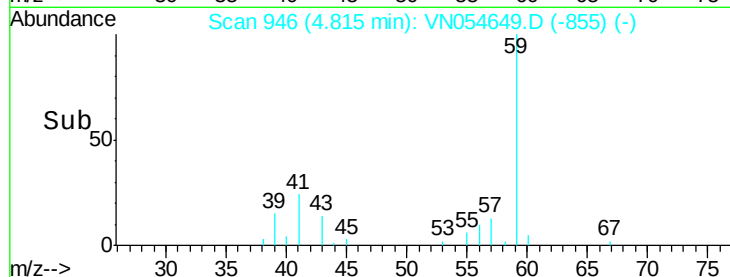
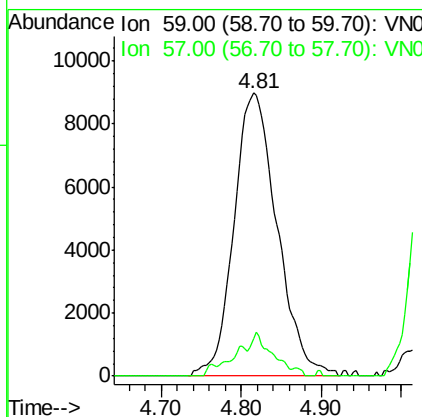
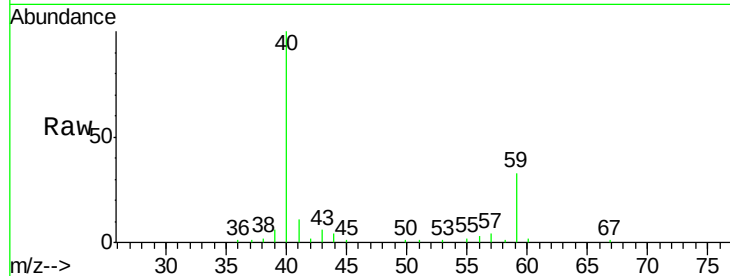
#11
Tert butyl alcohol
Concen: 100.321 ug/l
RT: 4.81 min Scan# 946
Delta R.T. -0.01 min
Lab File: VN054649.D
Acq: 24 Mar 2019 15:41

Instrument :
MSVOA_N
ClientSampleId :
VN0324MBSD01

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	9.0	13.6#

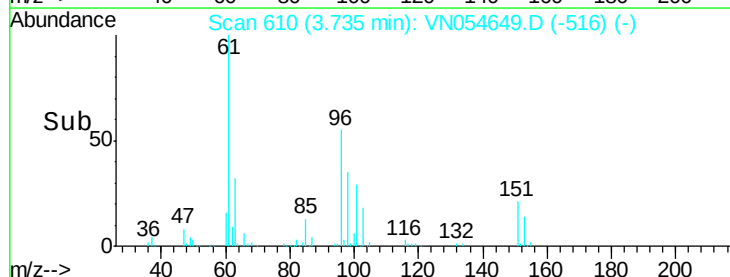
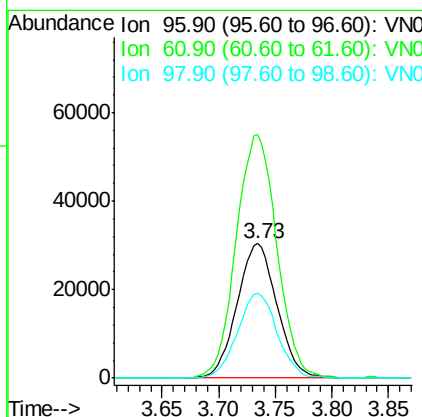
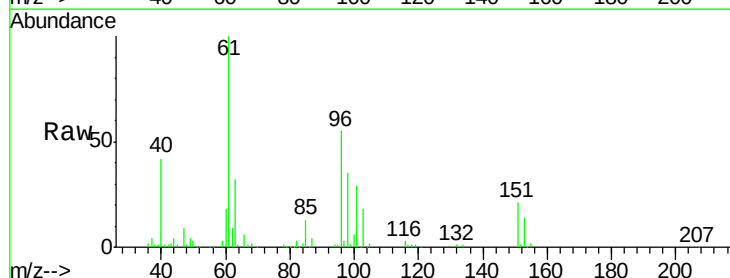
Manual Integrations
APPROVED

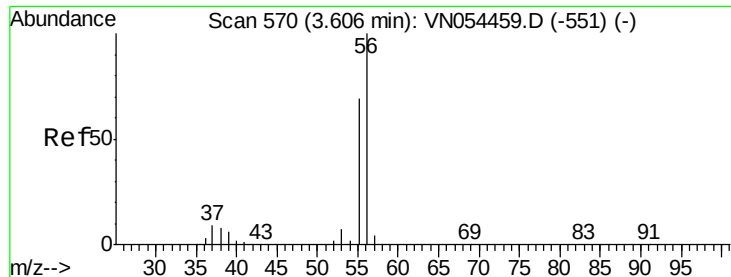
MMDadoda
3/25/2019 9:54:55 AM



#12
1,1-Dichloroethene
Concen: 17.718 ug/l
RT: 3.73 min Scan# 610
Delta R.T. 0.00 min
Lab File: VN054649.D
Acq: 24 Mar 2019 15:41

Tgt Ion	Ratio	Lower	Upper
96	100		
61	181.0	116.5	174.7#
98	63.1	51.0	76.4





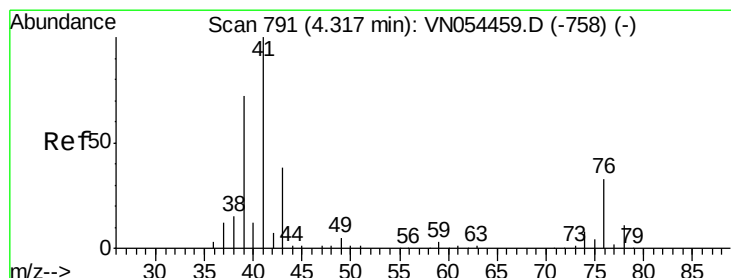
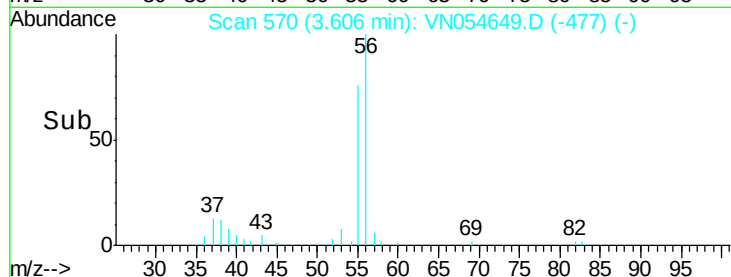
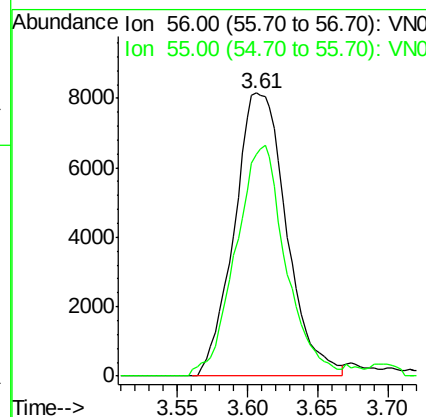
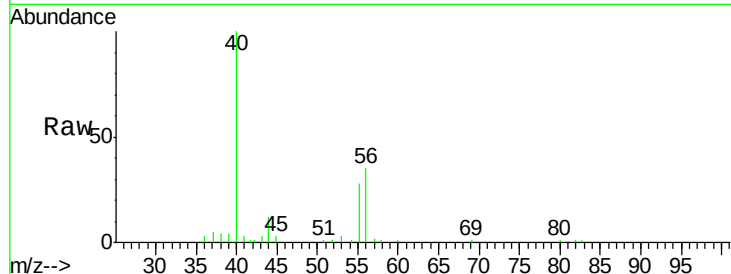
#13
Acrolein
Concen: 46.497 ug/l
RT: 3.61 min Scan# 570
Delta R.T. -0.00 min
Lab File: VN054649.D
Acq: 24 Mar 2019 15:41

Instrument :
MSVOA_N
ClientSampleId :
VN0324MBSD01

Tot Ion	56	Resp	21076
Ion Ratio	100	Lower	Upper
55	78.1	56.7	85.1

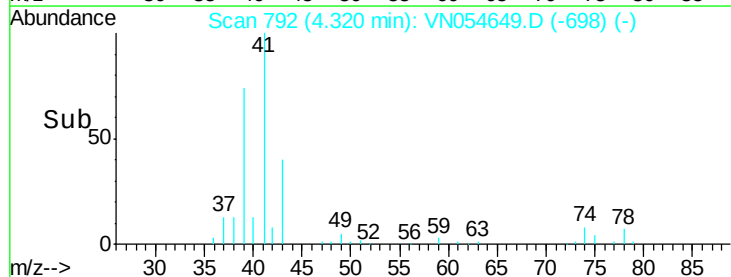
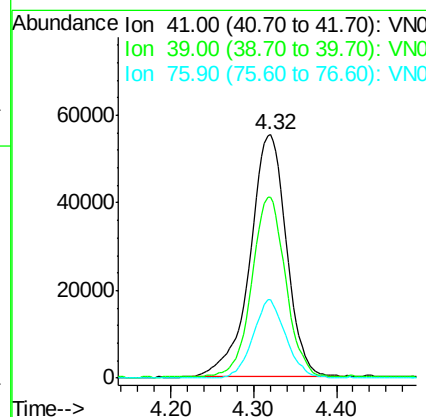
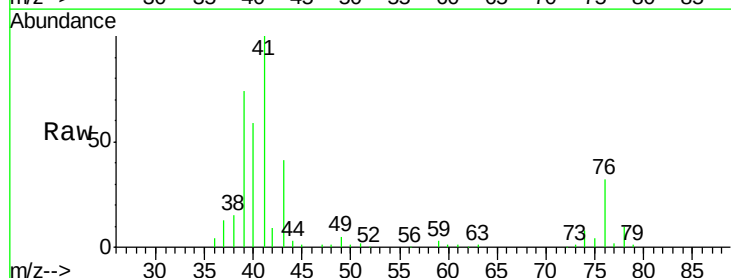
Manual Integrations
APPROVED

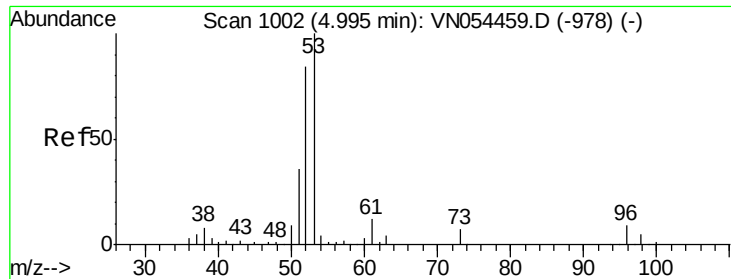
MMDadoda
3/25/2019 9:54:55 AM



#14
Allyl chloride
Concen: 21.352 ug/l
RT: 4.32 min Scan# 792
Delta R.T. 0.00 min
Lab File: VN054649.D
Acq: 24 Mar 2019 15:41

Tgt Ion	41	Resp	169149
Ion Ratio	100	Lower	Upper
39	68.2	58.2	87.4
76	29.2	31.7	47.5#





#15

Acrylonitrile

Concen: 112.124 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. -0.00 min

Lab File: VN054649.D

Acq: 24 Mar 2019 15:41

Instrument :

MSVOA_N

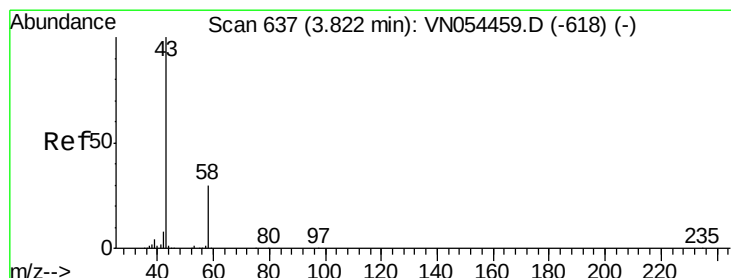
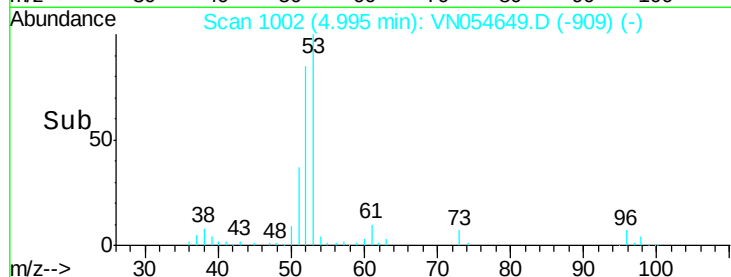
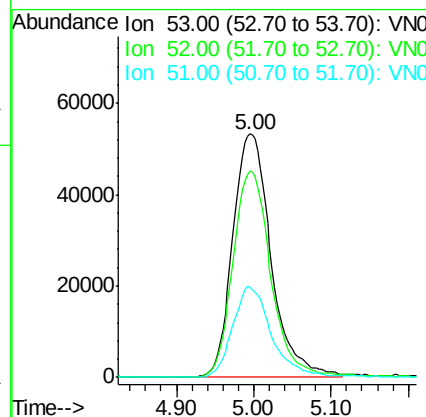
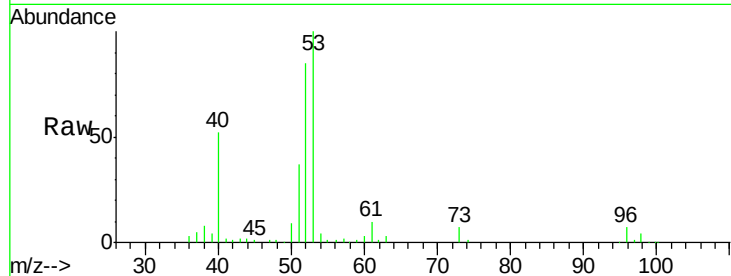
ClientSampleId :

VN0324MBSD01

Tot Ion:	53	Resp:	183399
Ion Ratio	Lower	Upper	
53	100		
52	83.1	66.4	99.6
51	37.5	29.6	44.4

Manual Integrations
APPROVED

MMDadoda
3/25/2019 9:54:55 AM



#16

Acetone

Concen: 80.654 ug/l

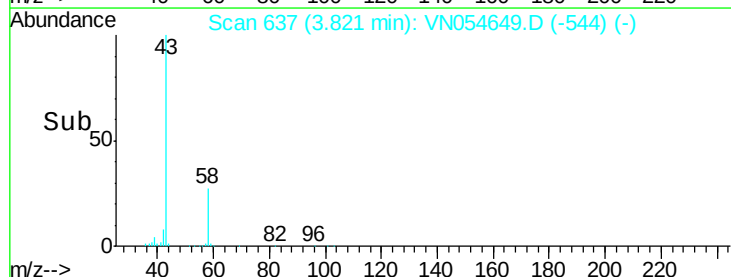
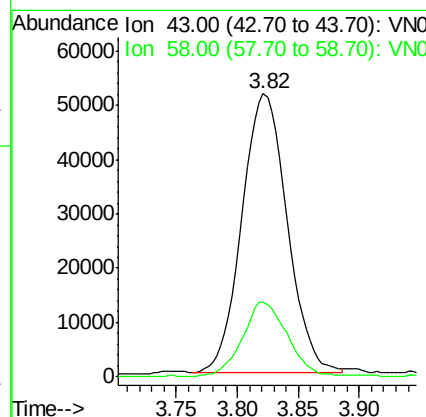
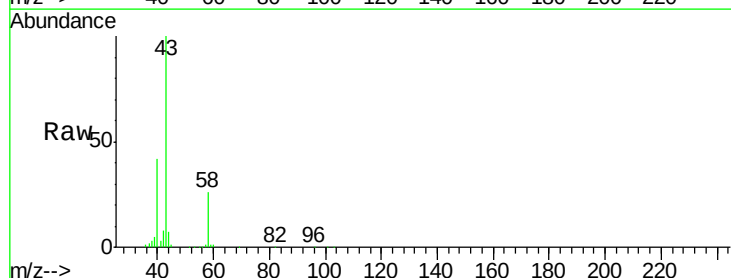
RT: 3.82 min Scan# 637

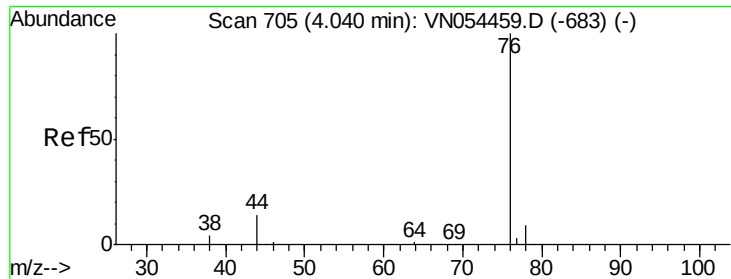
Delta R.T. -0.00 min

Lab File: VN054649.D

Acq: 24 Mar 2019 15:41

Tgt Ion:	43	Resp:	131555
Ion Ratio	Lower	Upper	
43	100		
58	26.3	29.9	44.9#





#17

Carbon Disulfide

Concen: 16.497 ug/l

RT: 4.04 min Scan# 706

Delta R.T. 0.00 min

Lab File: VN054649.D

Acq: 24 Mar 2019 15:41

Instrument :

MSVOA_N

ClientSampleId :

VN0324MBSD01

Tot Ion: 76 Resp: 185963

Ion Ratio Lower Upper

76 100

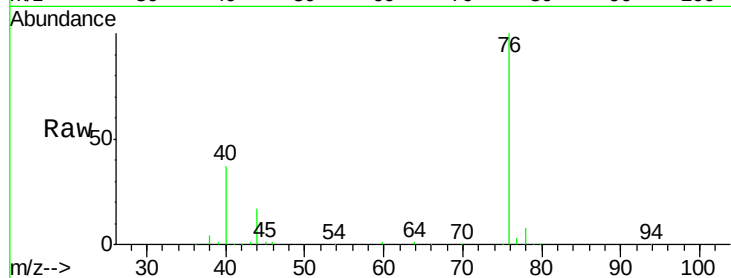
78 8.4 7.5 11.3

Manual Integrations

APPROVED

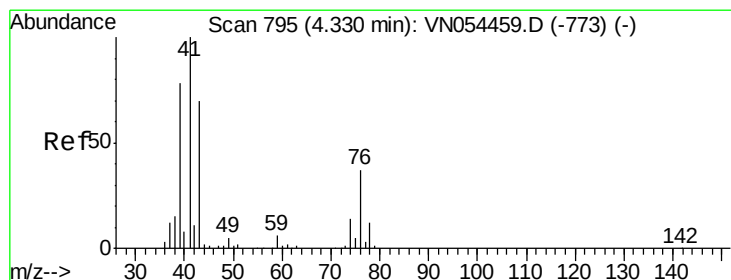
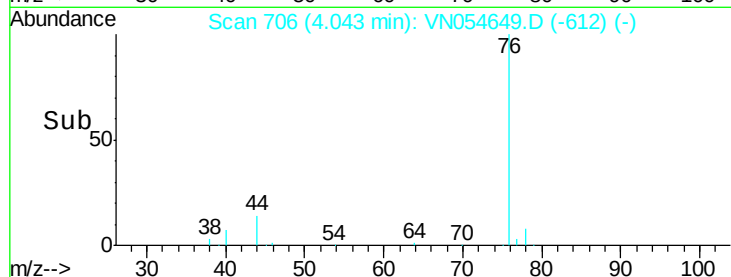
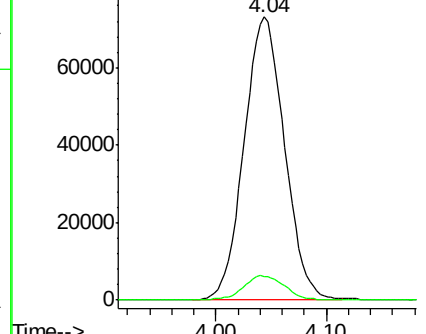
MMDadoda

3/25/2019 9:54:55 AM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 22.962 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN054649.D

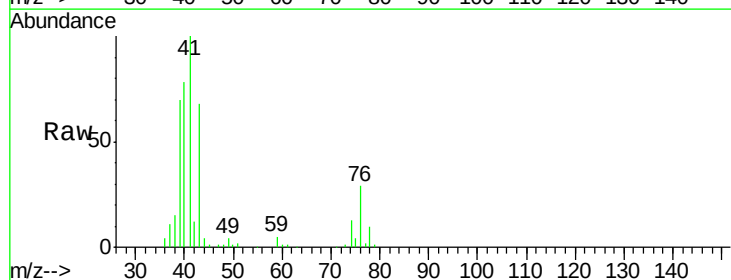
Acq: 24 Mar 2019 15:41

Tgt Ion: 43 Resp: 83478

Ion Ratio Lower Upper

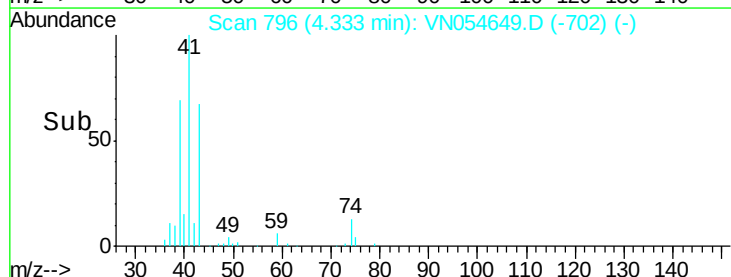
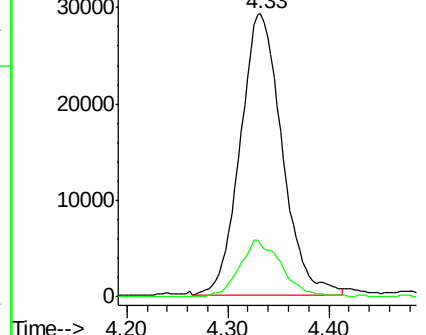
43 100

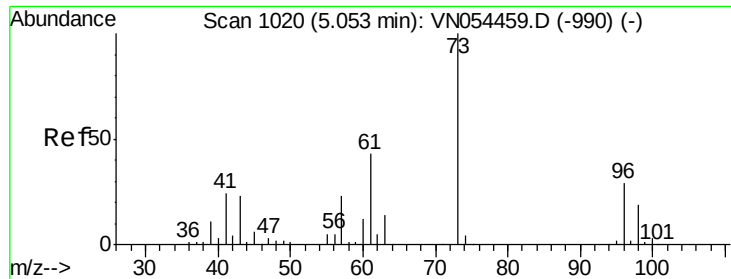
74 20.2 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





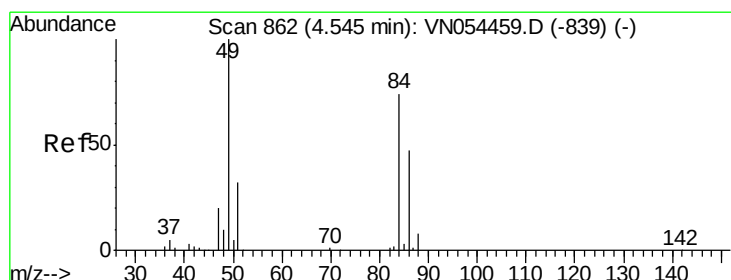
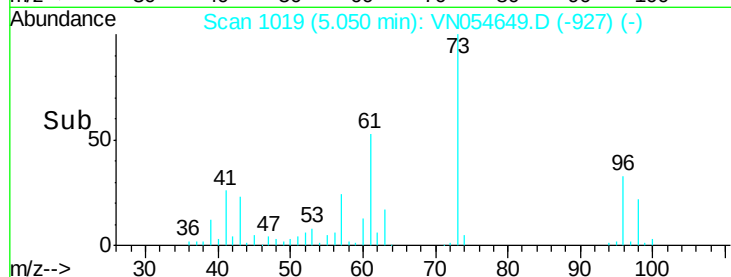
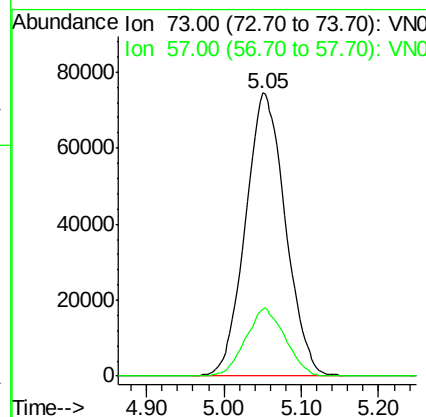
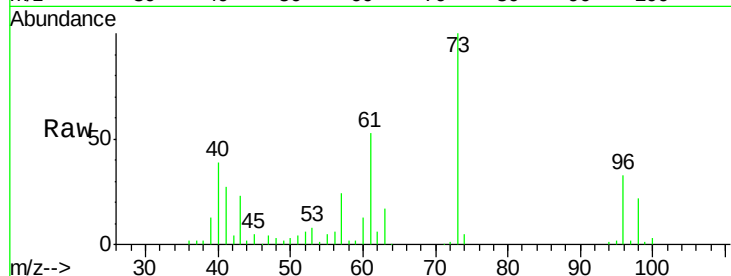
#19
Methyl tert-butyl Ether
Concen: 21.841 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. -0.00 min
Lab File: VN054649.D
Acq: 24 Mar 2019 15:41

Instrument :
MSVOA_N
ClientSampleId :
VN0324MBSD01

Tot Ion: 73 Resp: 268155
Ion Ratio Lower Upper
73 100
57 23.8 16.8 25.2

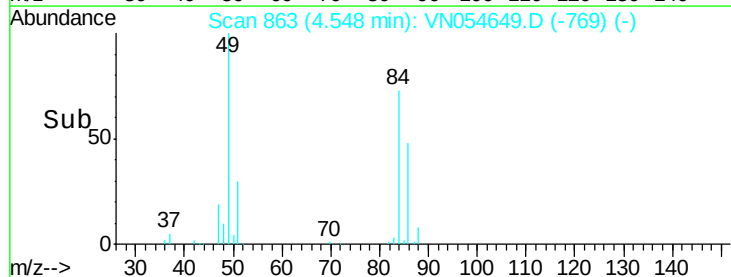
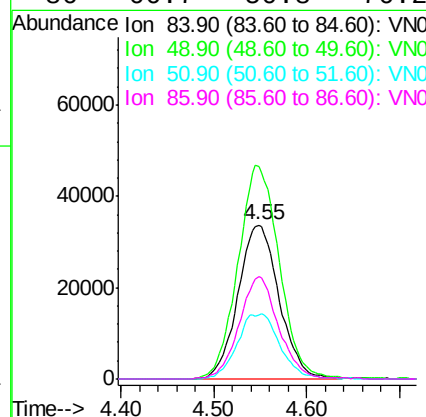
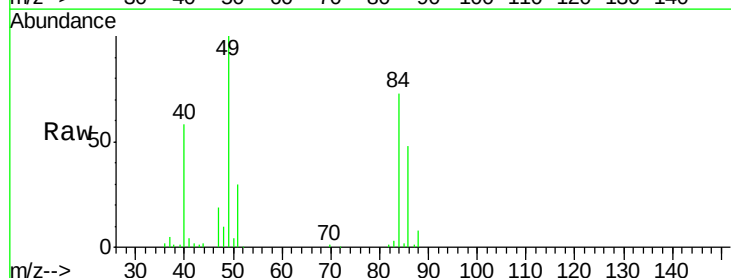
Manual Integrations
APPROVED

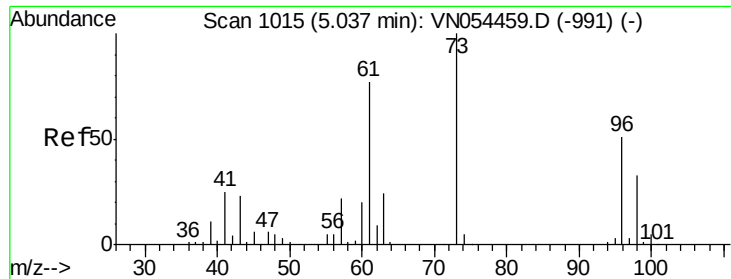
MMDadoda
3/25/2019 9:54:55 AM



#20
Methylene Chloride
Concen: 21.596 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN054649.D
Acq: 24 Mar 2019 15:41

Tgt Ion: 84 Resp: 103835
Ion Ratio Lower Upper
84 100
49 137.7 89.7 134.5#
51 41.2 28.2 42.4
86 66.7 50.8 76.2





#21

trans-1,2-Dichloroethene

Concen: 21.650 ug/l

RT: 5.04 min Scan# 1015

Delta R.T. -0.00 min

Lab File: VN054649.D

Acq: 24 Mar 2019 15:41

Instrument :

MSVOA_N

ClientSampleId :

VN0324MBSD01

Tot Ion: 96 Resp: 93005

Ion Ratio Lower Upper

96 100

61 150.9 102.8 154.2

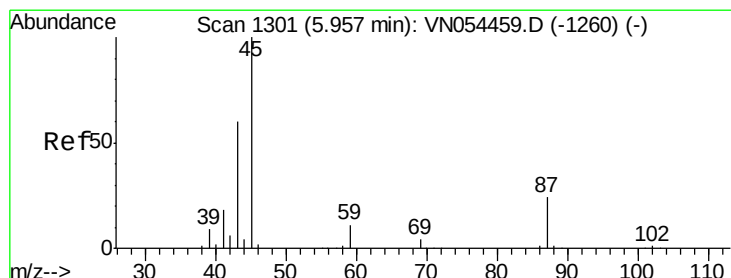
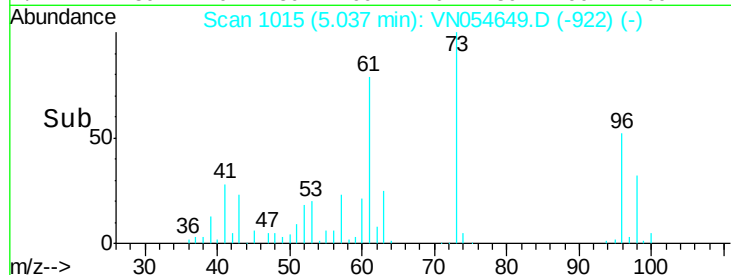
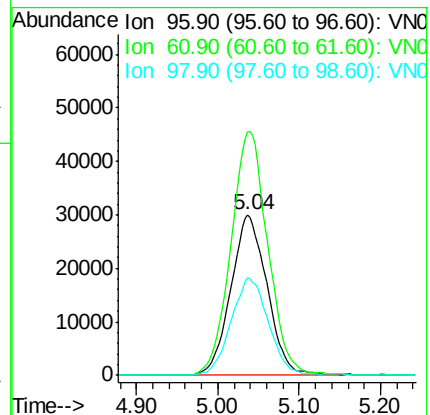
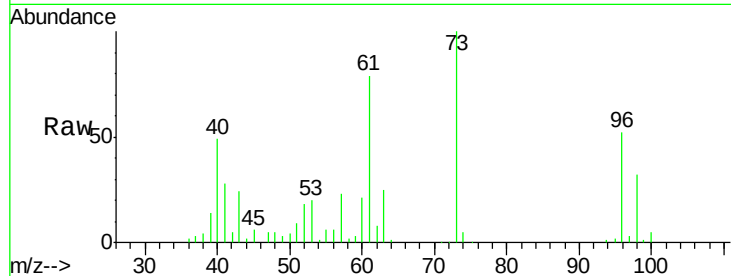
98 60.9 50.0 75.0

Manual Integrations

APPROVED

MMDadoda

3/25/2019 9:54:55 AM



#22

Diisopropyl ether

Concen: 23.535 ug/l

RT: 5.96 min Scan# 1302

Delta R.T. 0.00 min

Lab File: VN054649.D

Acq: 24 Mar 2019 15:41

Tgt Ion: 45 Resp: 367761

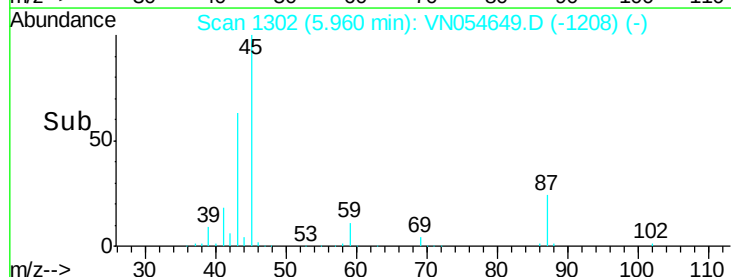
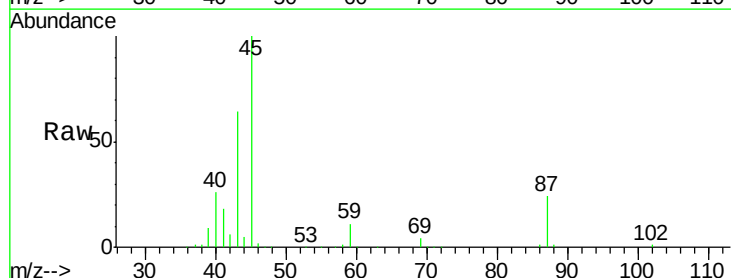
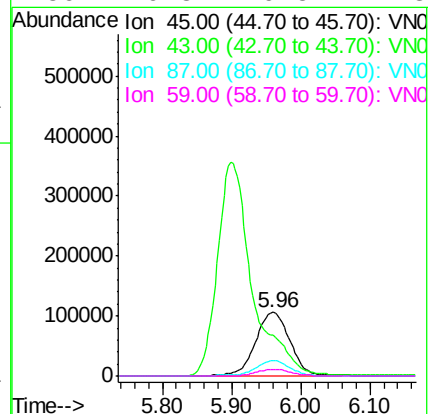
Ion Ratio Lower Upper

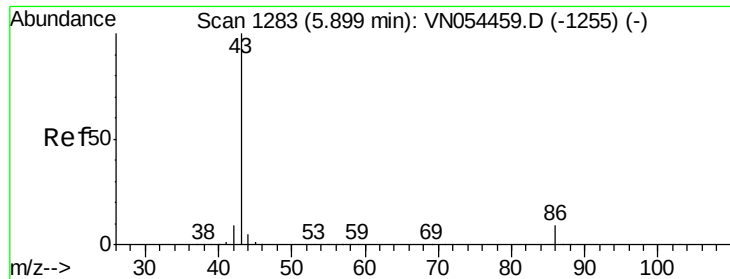
45 100

43 61.4 48.2 72.2

87 23.7 24.9 37.3#

59 10.8 9.5 14.3





#23

Vinyl Acetate

Concen: 112.780 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VN054649.D

Acq: 24 Mar 2019 15:41

Instrument :

MSVOA_N

ClientSampleId :

VN0324MBSD01

Tot Ion: 43 Resp: 1244667

Ion Ratio Lower Upper

43 100

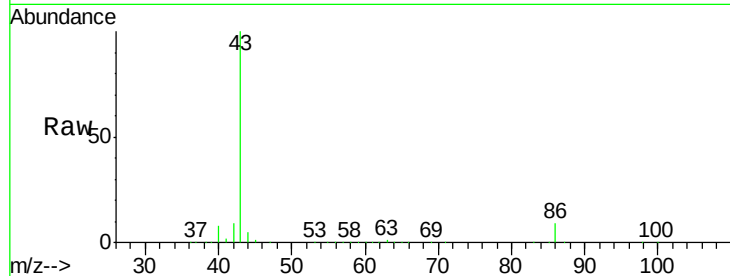
86 8.5 9.1 13.7#

Manual Integrations

APPROVED

MMDadoda

3/25/2019 9:54:55 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

5.90

400000

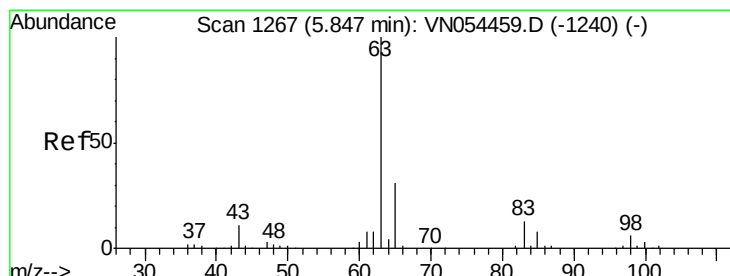
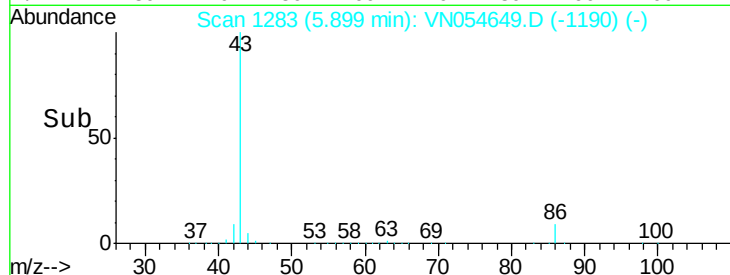
300000

200000

100000

0

Time--> 5.70 5.80 5.90 6.00 6.10



#24

1,1-Dichloroethane

Concen: 22.931 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VN054649.D

Acq: 24 Mar 2019 15:41

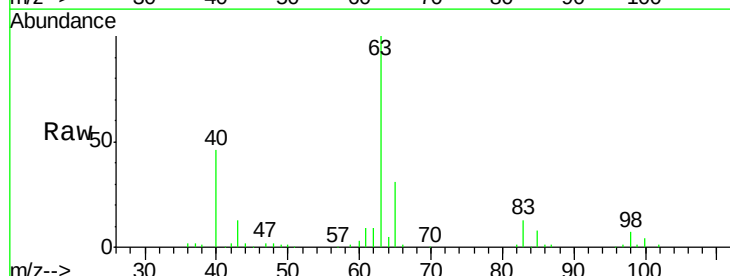
Tgt Ion: 63 Resp: 192933

Ion Ratio Lower Upper

63 100

98 7.0 3.5 10.5

100 3.8 2.0 6.0



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0

80000

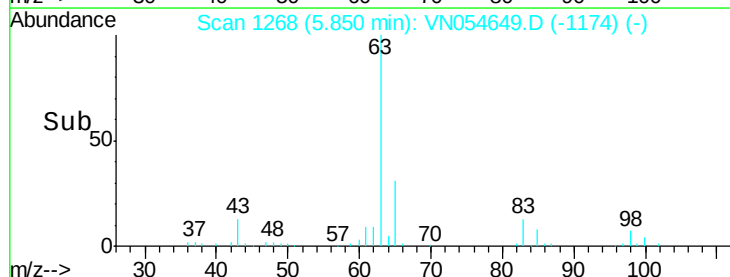
60000

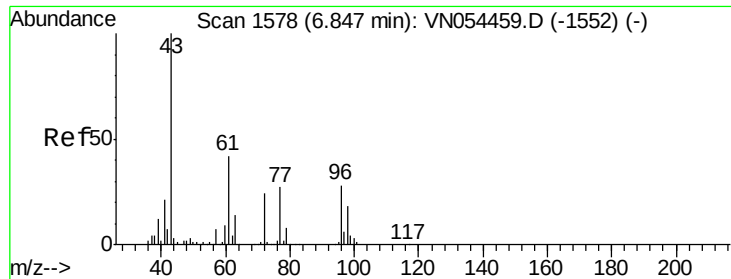
40000

20000

0

Time--> 5.70 5.80 5.90 6.00





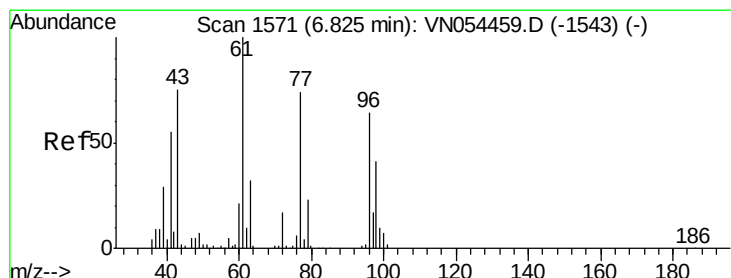
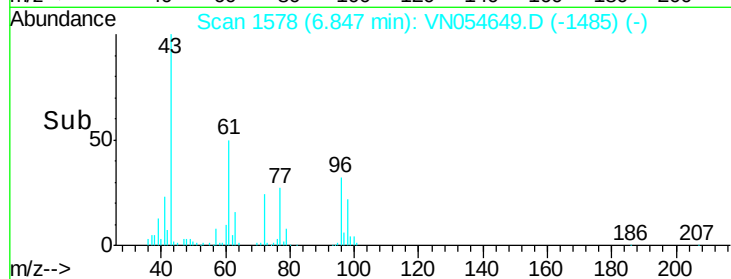
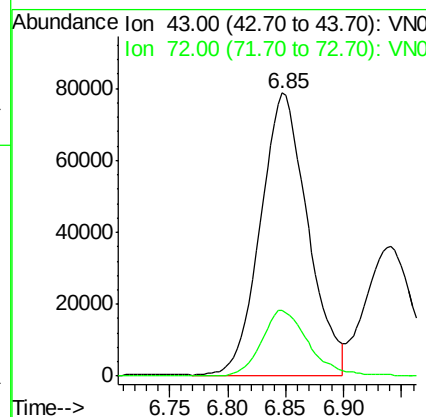
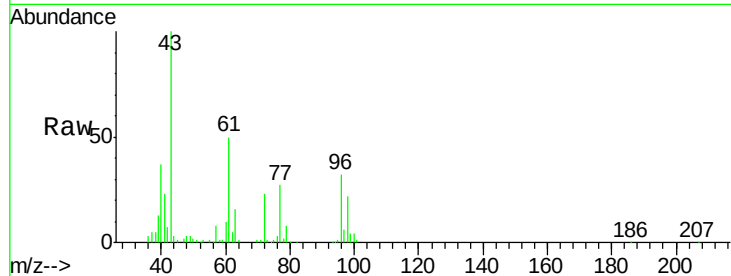
#25
 2-Butanone
 Concen: 106.234 ug/l
 RT: 6.85 min Scan# 1578
 Delta R.T. -0.00 min
 Lab File: VN054649.D
 Acq: 24 Mar 2019 15:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0324MBSD01

Tot Ion: 43 Resp: 221968
 Ion Ratio Lower Upper
 43 100
 72 23.5 23.0 34.6

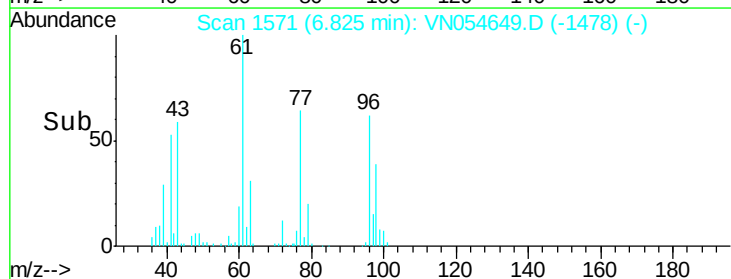
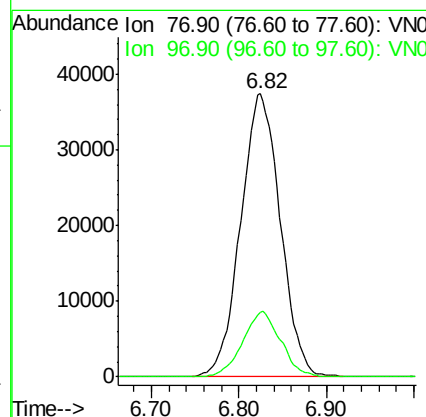
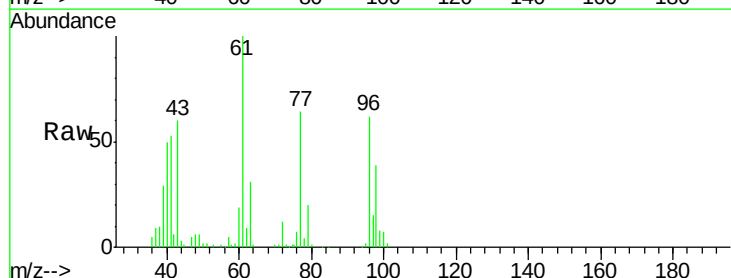
Manual Integrations
 APPROVED

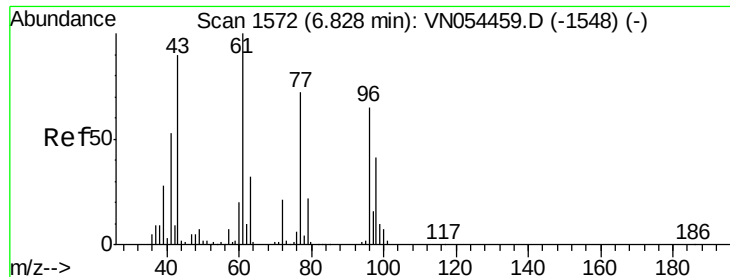
MMDadoda
 3/25/2019 9:54:55 AM



#26
 2,2-Dichloropropane
 Concen: 19.578 ug/l
 RT: 6.82 min Scan# 1571
 Delta R.T. -0.00 min
 Lab File: VN054649.D
 Acq: 24 Mar 2019 15:41

Tgt Ion: 77 Resp: 117419
 Ion Ratio Lower Upper
 77 100
 97 22.2 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 21.382 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN054649.D

Acq: 24 Mar 2019 15:41

Instrument :

MSVOA_N

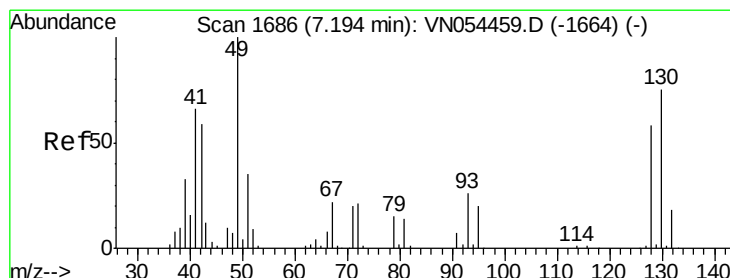
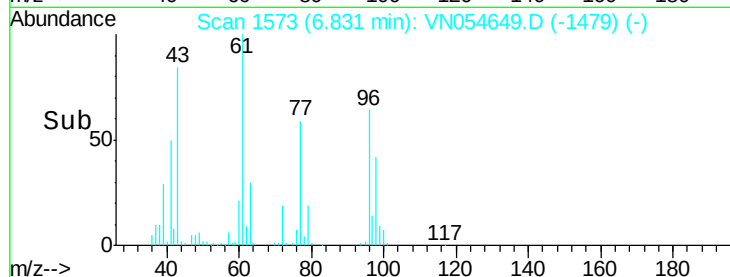
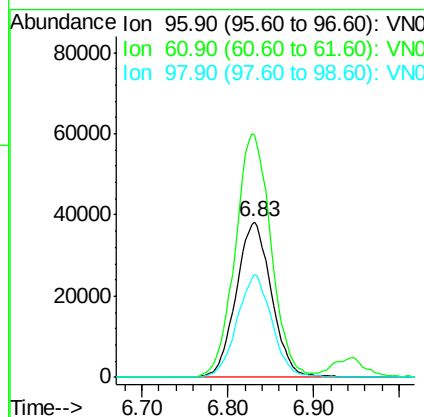
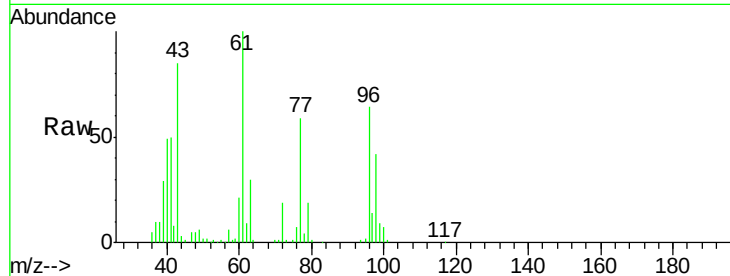
ClientSampleId :

VN0324MBSD01

Tot Ion:	96	Resp:	109559
Ion	Ratio	Lower	Upper
96	100		
61	158.0	0.0	273.0
98	64.7	0.0	130.6

Manual Integrations
APPROVED

MMDadoda
3/25/2019 9:54:55 AM



#28

Bromochloromethane

Concen: 23.339 ug/l

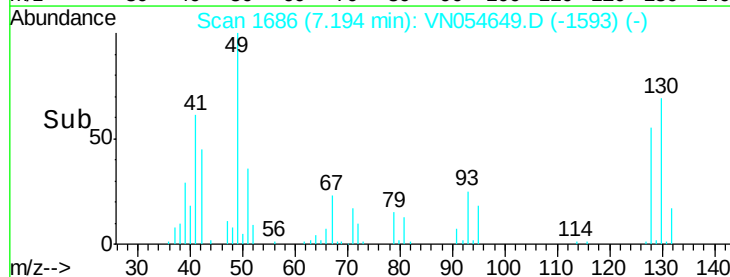
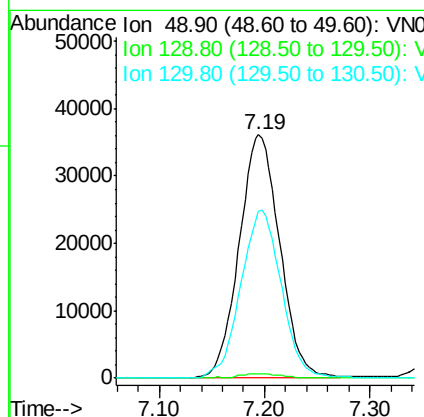
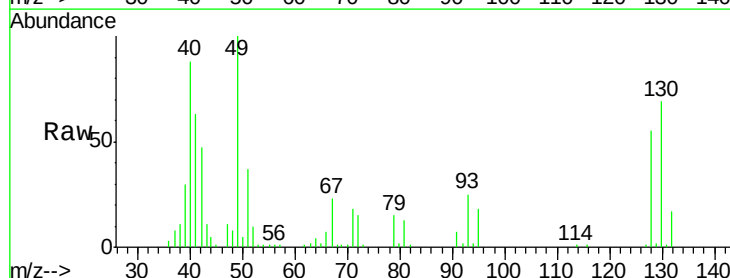
RT: 7.19 min Scan# 1686

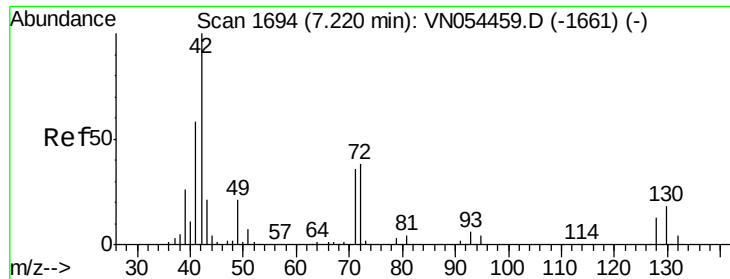
Delta R.T. -0.00 min

Lab File: VN054649.D

Acq: 24 Mar 2019 15:41

Tgt Ion:	49	Resp:	96657
Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.6
130	68.7	76.7	115.1#





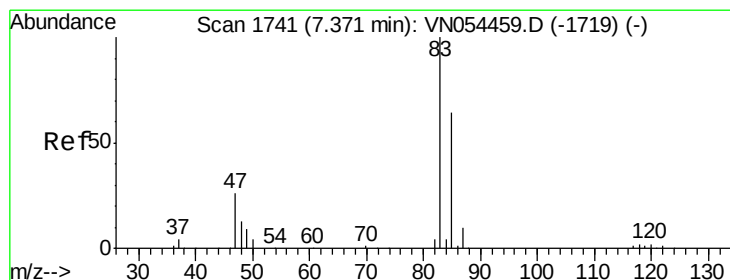
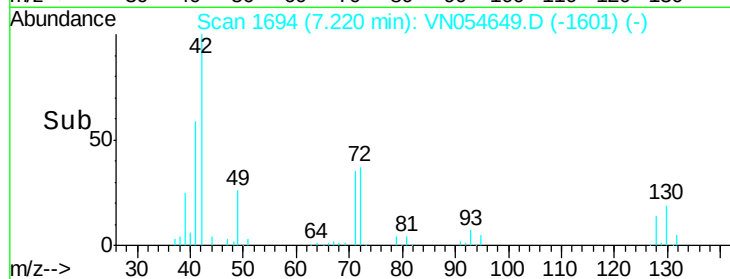
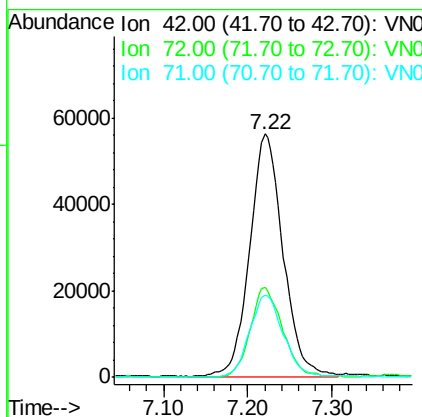
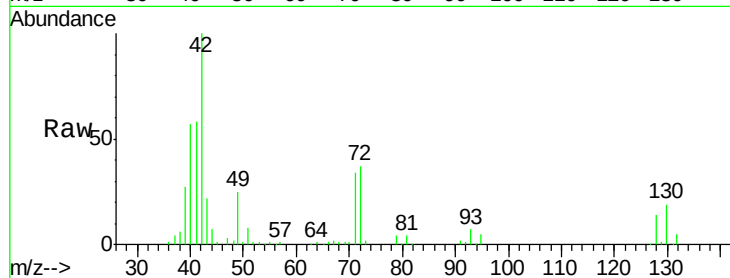
#29
Tetrahydrofuran
Concen: 113.189 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. -0.00 min
Lab File: VN054649.D
Acq: 24 Mar 2019 15:41

Instrument :
MSVOA_N
ClientSampleId :
VN0324MBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.3	37.8	56.6#
71	34.6	36.2	54.2#

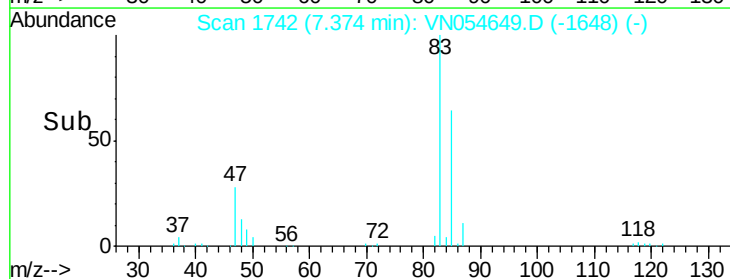
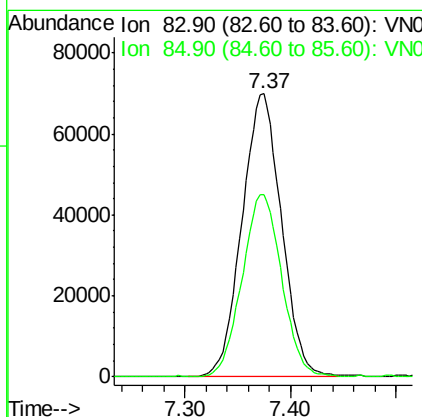
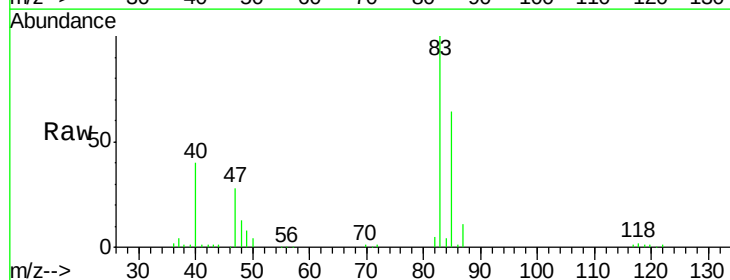
Manual Integrations
APPROVED

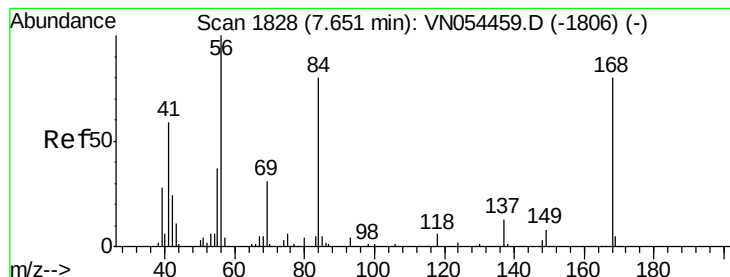
MMDadoda
3/25/2019 9:54:55 AM



#30
Chloroform
Concen: 22.188 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN054649.D
Acq: 24 Mar 2019 15:41

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.4	52.2	78.4





#31

Cyclohexane

Concen: 21.535 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN054649.D

Acq: 24 Mar 2019 15:41

Instrument :

MSVOA_N

ClientSampleId :

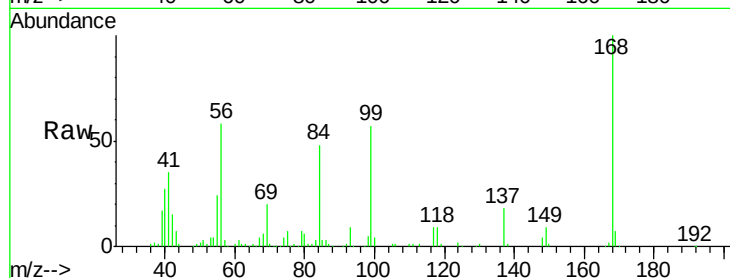
VN0324MBSD01

Tot Ion: 56 Resp: 182136

Ion	Ratio	Lower	Upper
56	100		
69	34.6	27.8	41.6
84	80.2	74.6	111.8

Manual Integrations
APPROVED

MMDadoda
3/25/2019 9:54:55 AM

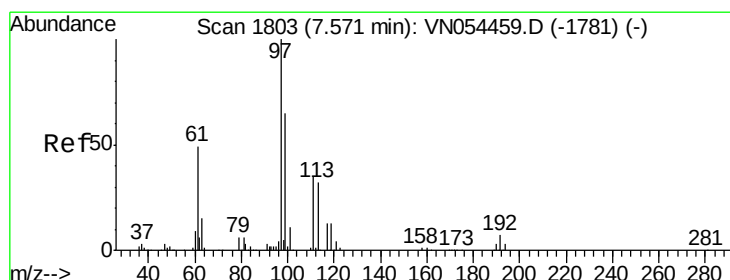
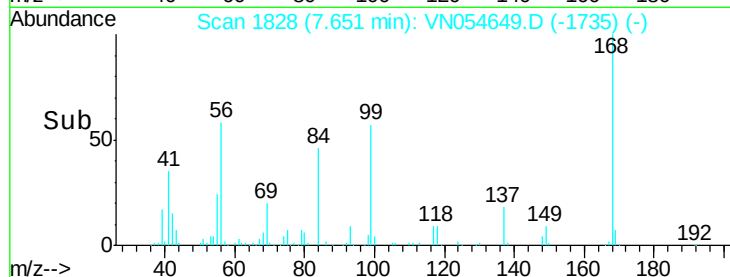
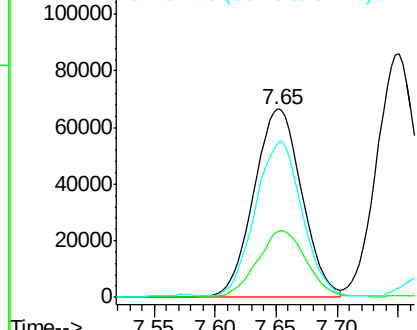


Abundance

Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#32

1,1,1-Trichloroethane

Concen: 21.659 ug/l

RT: 7.57 min Scan# 1803

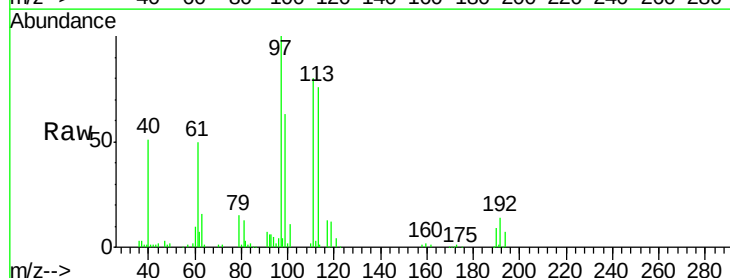
Delta R.T. -0.00 min

Lab File: VN054649.D

Acq: 24 Mar 2019 15:41

Tgt Ion: 97 Resp: 146720

Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.5	77.3
61	50.1	33.6	50.4

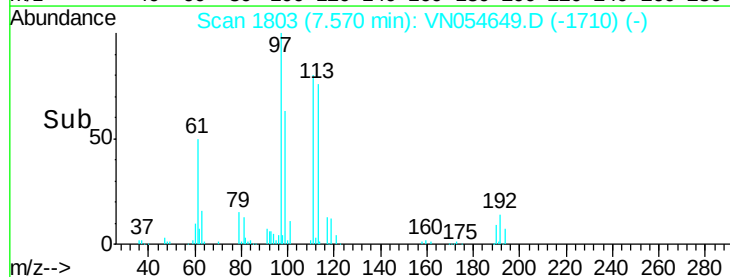
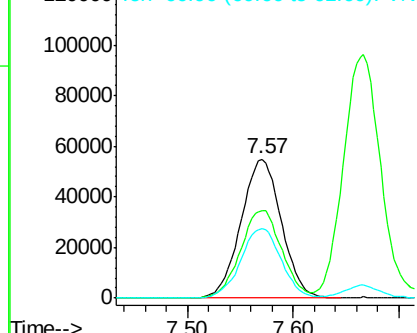


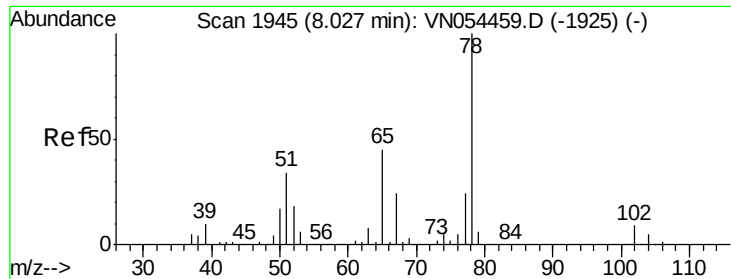
Abundance

Ion 96.90 (96.60 to 97.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

Ion 60.90 (60.60 to 61.60): VN0





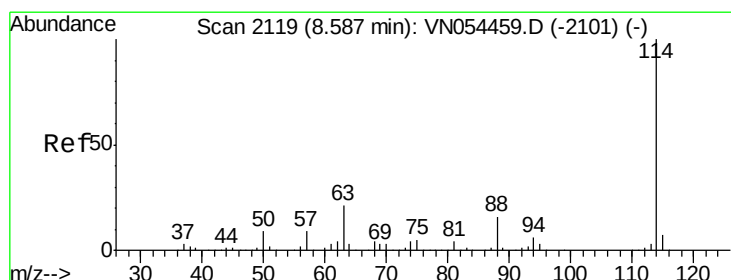
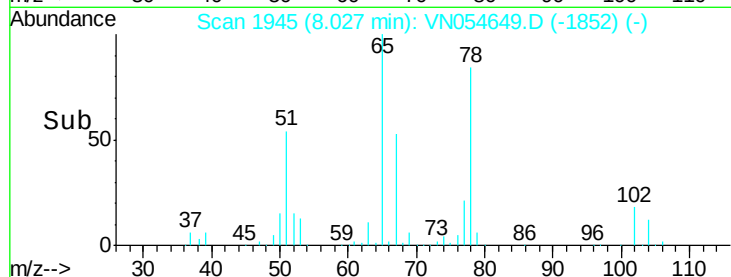
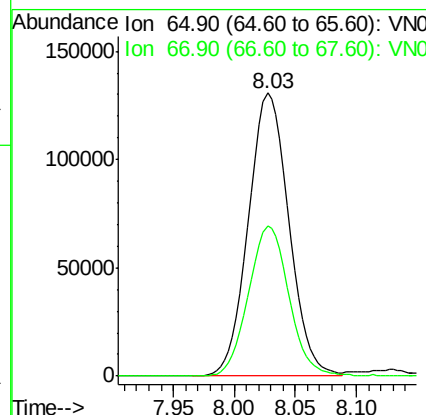
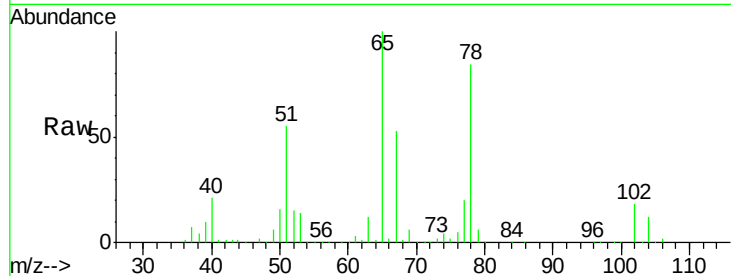
#33
 1,2-Dichloroethane-d4
 Concen: 55.428 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054649.D
 Acq: 24 Mar 2019 15:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0324MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	300712		
67	52.5	0.0	104.6	

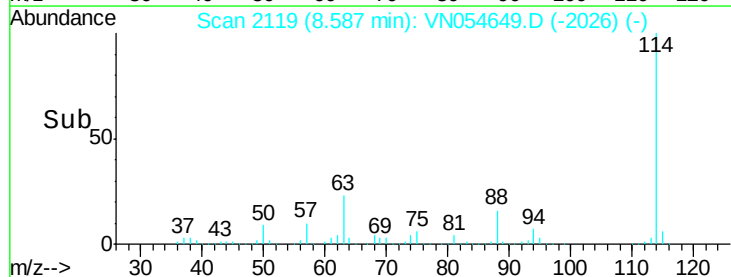
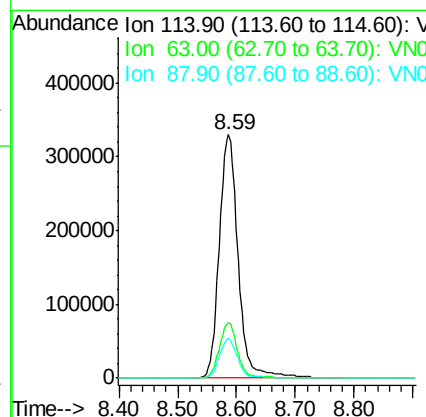
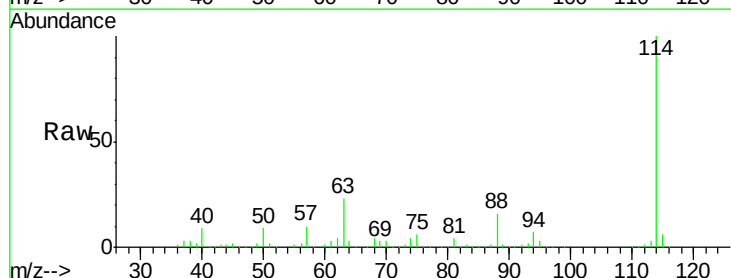
Manual Integrations
 APPROVED

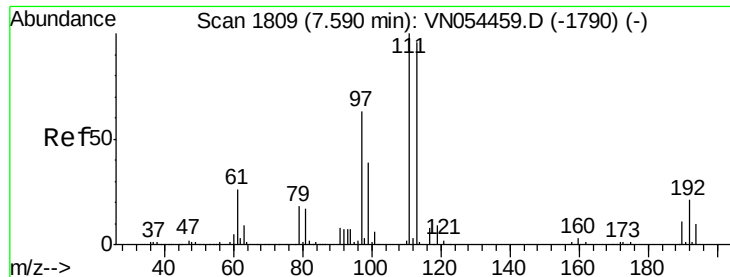
MMDadoda
 3/25/2019 9:54:55 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054649.D
 Acq: 24 Mar 2019 15:41

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	731953		
63	22.8	0.0	35.2	
88	16.2	0.0	30.2	





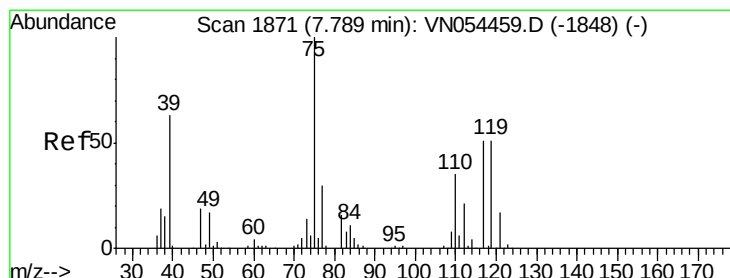
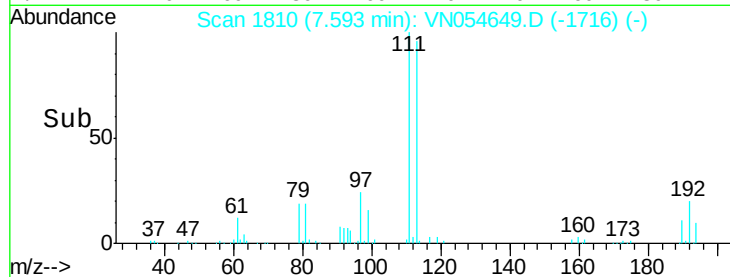
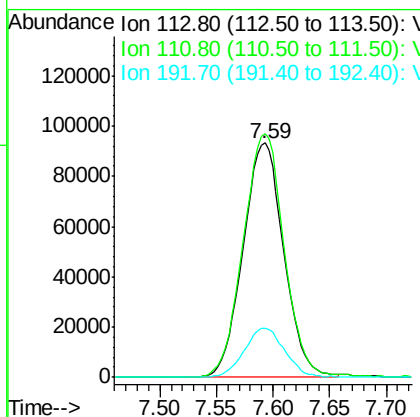
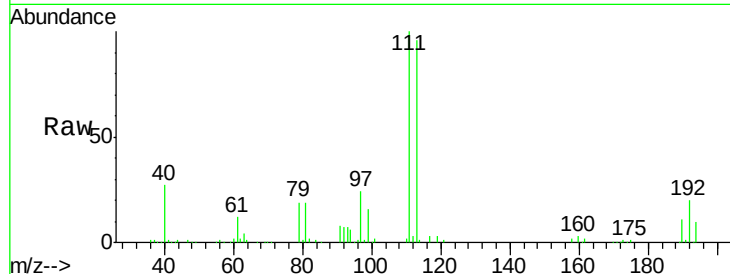
#35
 Dibromofluoromethane
 Concen: 49.504 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054649.D
 Acq: 24 Mar 2019 15:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0324MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	233440		
111	105.0	82.2	123.4	
192	21.0	19.2	28.8	

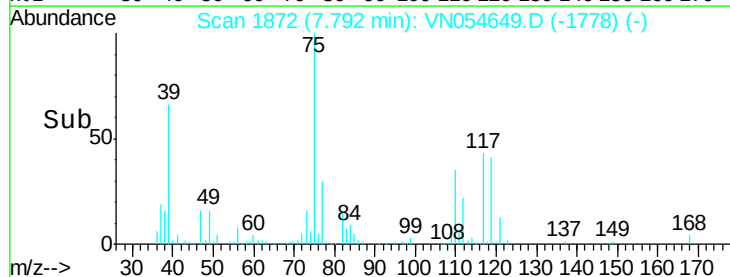
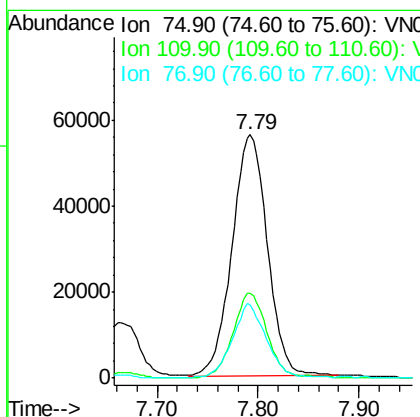
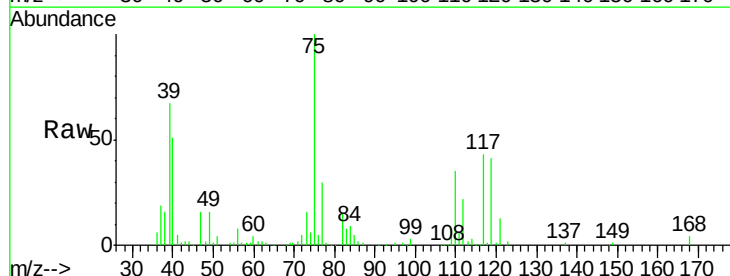
Manual Integrations
 APPROVED

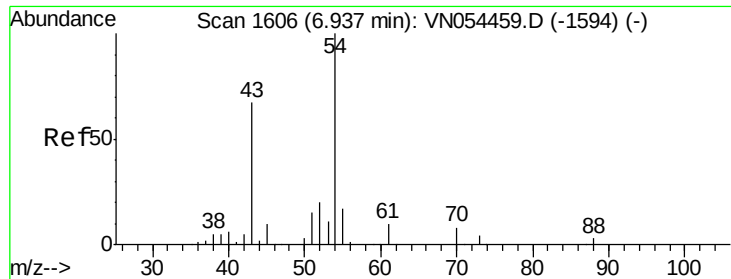
MMDadoda
 3/25/2019 9:54:55 AM



#36
 1,1-Dichloropropene
 Concen: 20.065 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN054649.D
 Acq: 24 Mar 2019 15:41

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	137322		
110	33.6	19.1	57.5	
77	29.5	25.0	37.4	





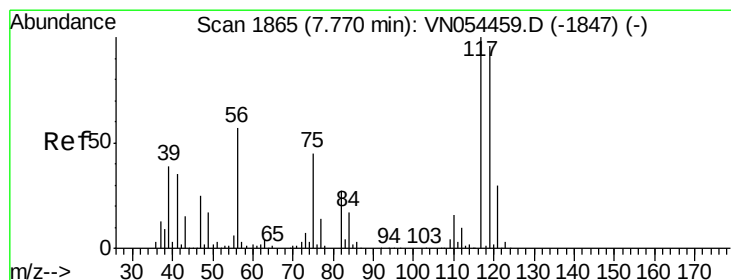
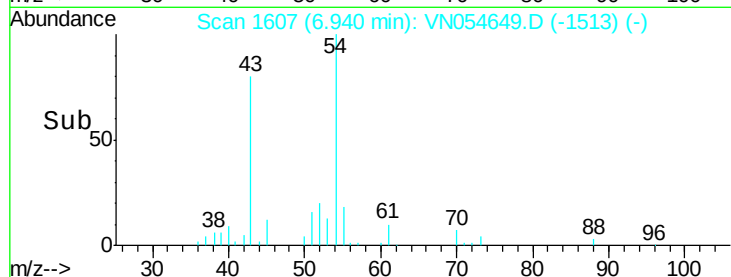
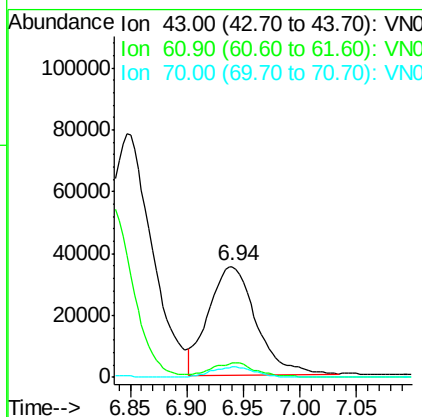
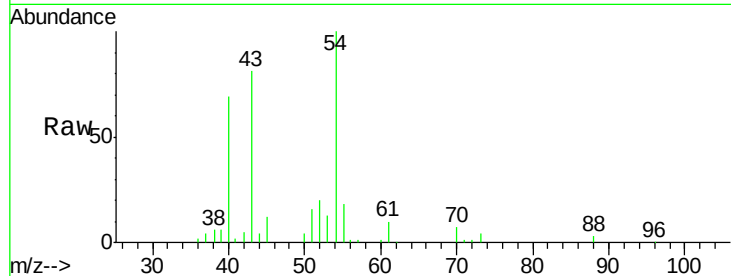
#37
Ethyl Acetate
Concen: 20.897 ug/l
RT: 6.94 min Scan# 1607
Delta R.T. 0.00 min
Lab File: VN054649.D
Acq: 24 Mar 2019 15:41

Instrument :
MSVOA_N
ClientSampled :
VN0324MBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	12.2	11.8	17.6
70	9.0	8.4	12.6

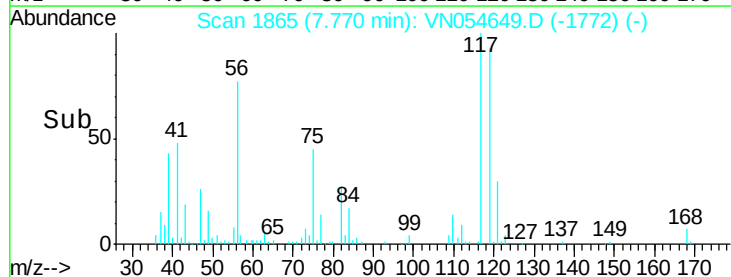
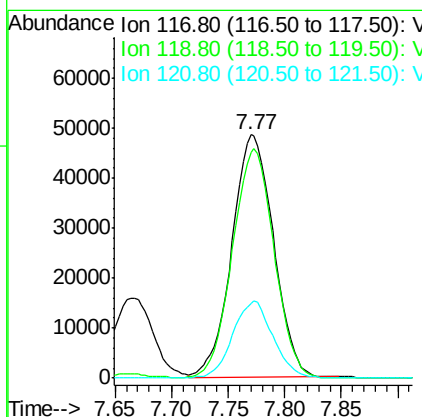
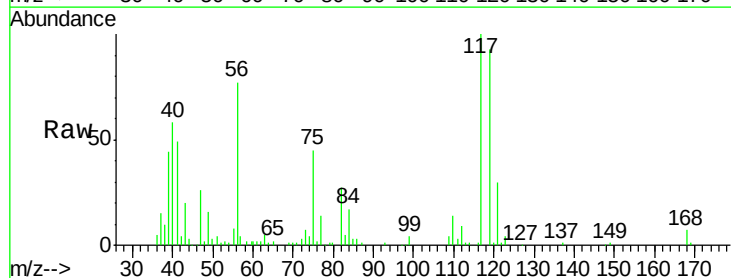
Manual Integrations
APPROVED

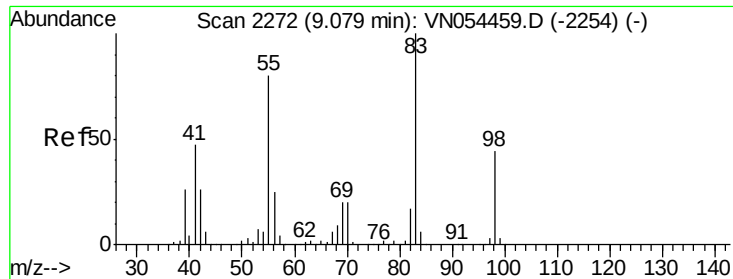
MMDadoda
3/25/2019 9:54:55 AM



#38
Carbon Tetrachloride
Concen: 18.701 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VN054649.D
Acq: 24 Mar 2019 15:41

Tgt Ion	Ratio	Lower	Upper
117	100		
119	92.7	76.3	114.5
121	30.6	24.6	36.8





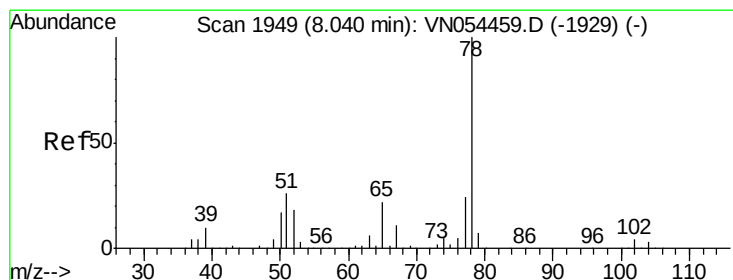
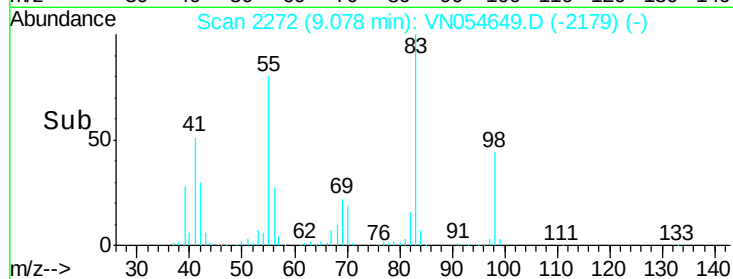
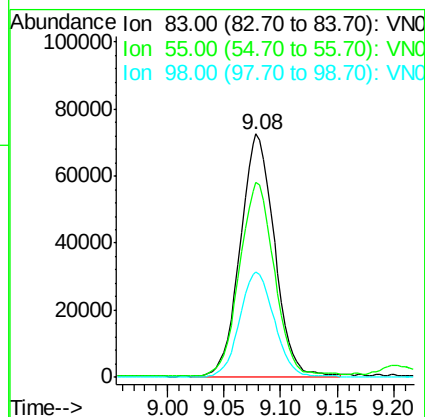
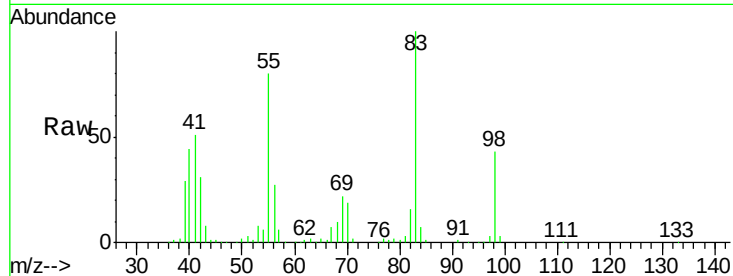
#39
Methylvlcyclohexane
Concen: 19.369 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN054649.D
Acq: 24 Mar 2019 15:41

Instrument :
MSVOA_N
ClientSampleId :
VN0324MBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
55	80.0	56.6	84.8
98	43.6	38.4	57.6

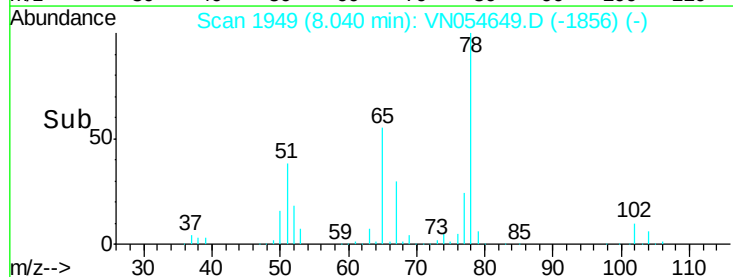
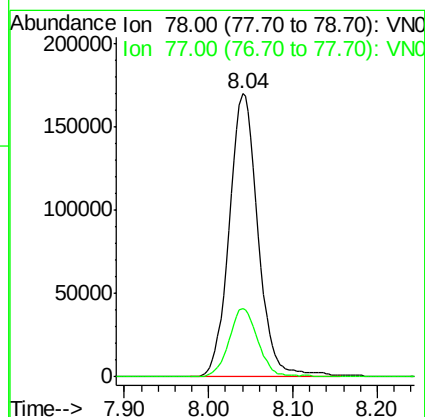
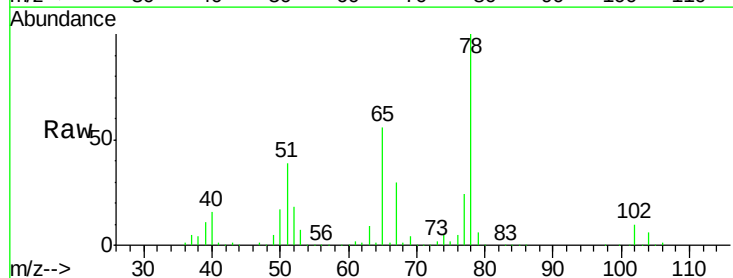
Manual Integrations
APPROVED

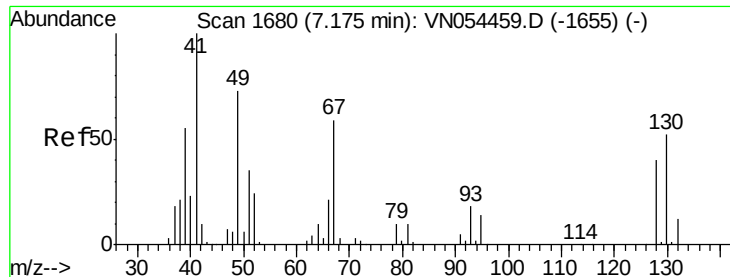
MMDadoda
3/25/2019 9:54:55 AM



#40
Benzene
Concen: 20.670 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN054649.D
Acq: 24 Mar 2019 15:41

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.2	19.1	28.7





#41

Methacrylonitrile

Concen: 21.992 ug/l

RT: 7.17 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VN054649.D

Acq: 24 Mar 2019 15:41

Instrument :

MSVOA_N

ClientSampleId :

VN0324MBSD01

Tot Ion: 41 Resp: 65283

Ion Ratio Lower Upper

41 100

39 53.2 46.8 70.2

67 62.9 67.0 100.4#

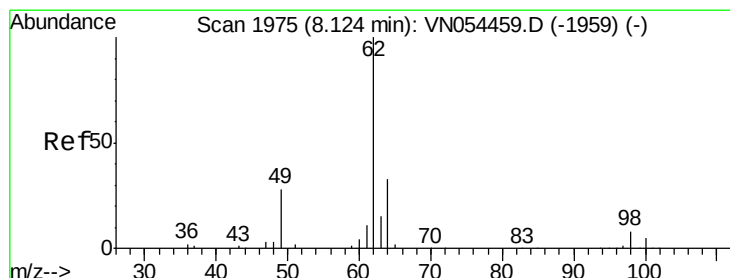
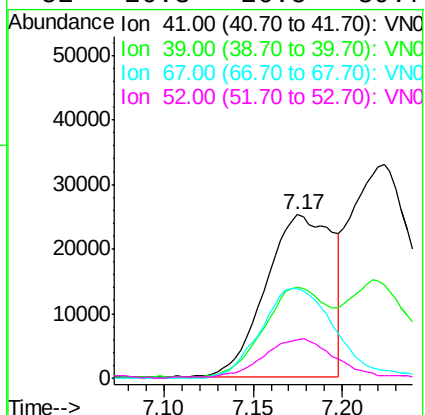
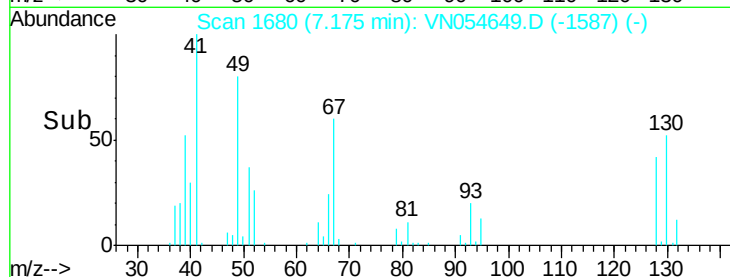
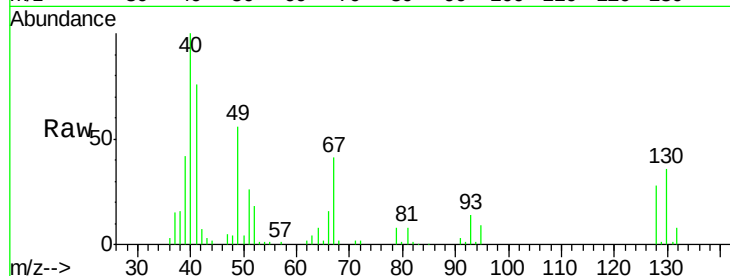
52 26.3 26.5 39.7#

Manual Integrations

APPROVED

MMDadoda

3/25/2019 9:54:55 AM



#42

1,2-Dichloroethane

Concen: 20.746 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN054649.D

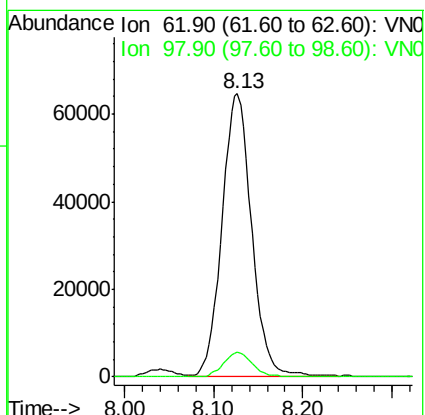
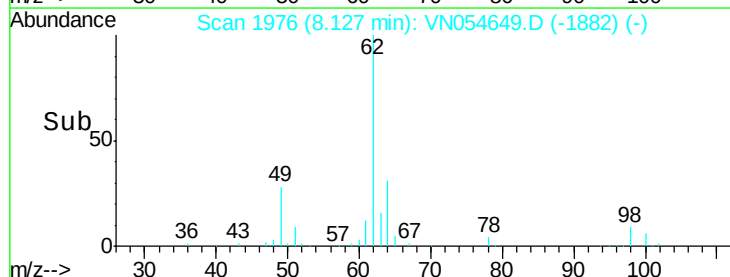
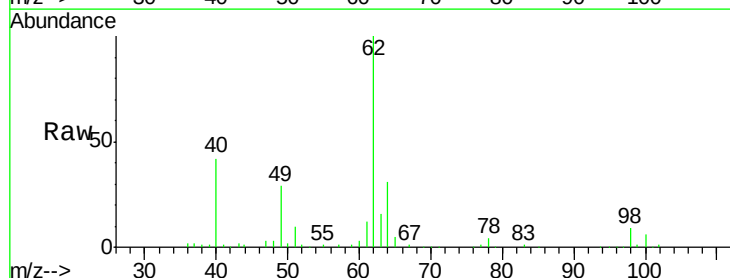
Acq: 24 Mar 2019 15:41

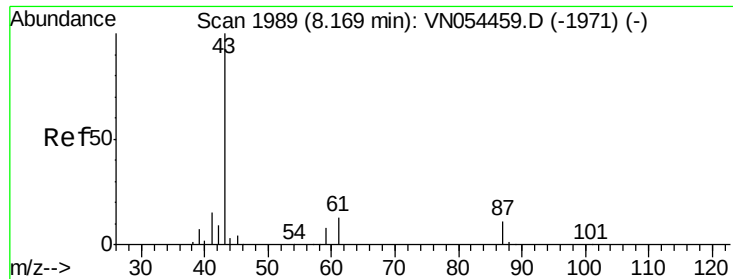
Tgt Ion: 62 Resp: 147861

Ion Ratio Lower Upper

62 100

98 8.5 0.0 18.4





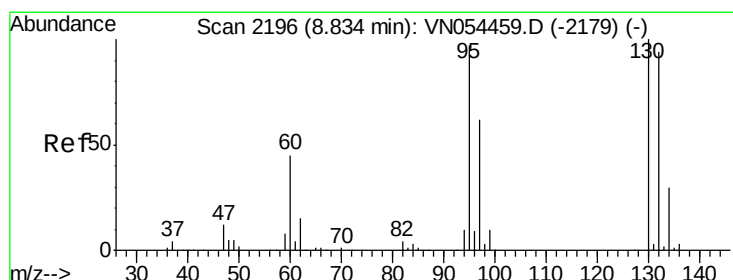
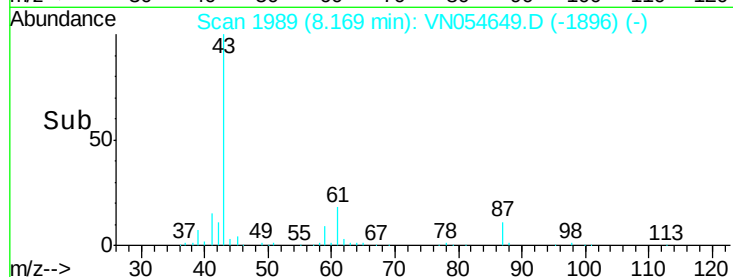
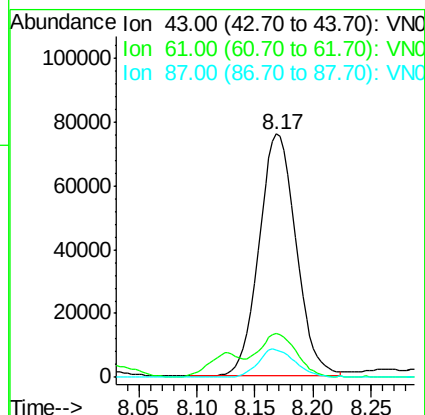
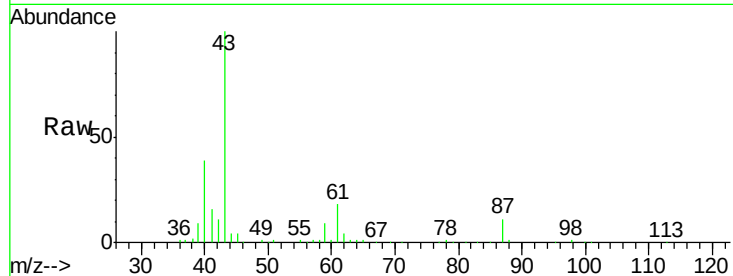
#43
Isopropyl Acetate
Concen: 20.613 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. -0.00 min
Lab File: VN054649.D
Acq: 24 Mar 2019 15:41

Instrument :
MSVOA_N
ClientSampleId :
VN0324MBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	18.5	15.8	23.8
87	11.6	12.0	18.0

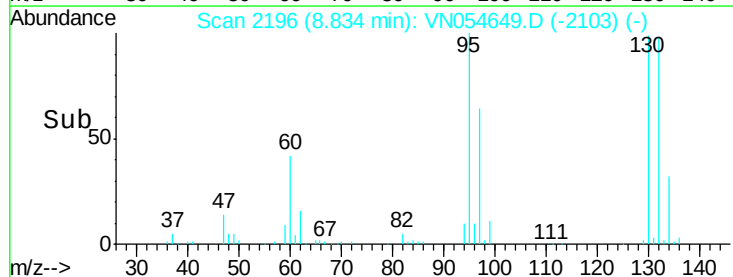
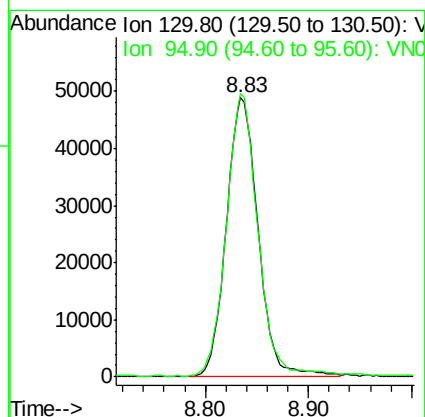
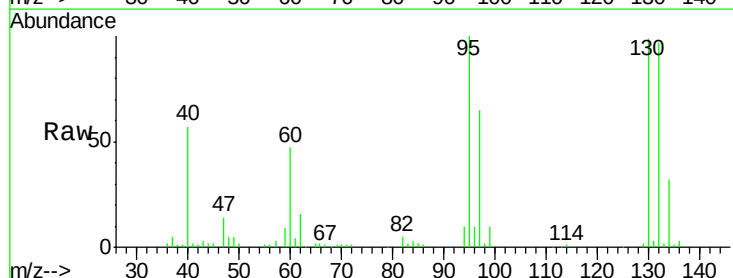
Manual Integrations
APPROVED

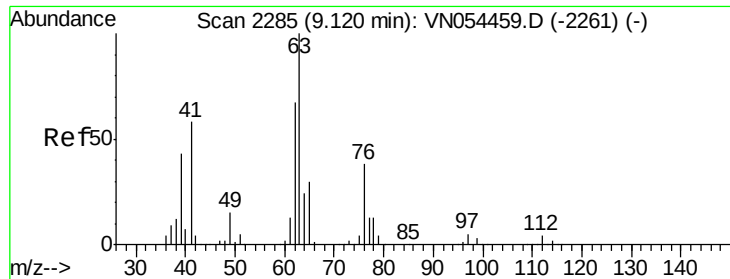
MMDadoda
3/25/2019 9:54:55 AM



#44
Trichloroethene
Concen: 19.299 ug/l
RT: 8.83 min Scan# 2196
Delta R.T. -0.00 min
Lab File: VN054649.D
Acq: 24 Mar 2019 15:41

Tgt Ion	Ratio	Lower	Upper
130	100		
95	100.9	0.0	185.2





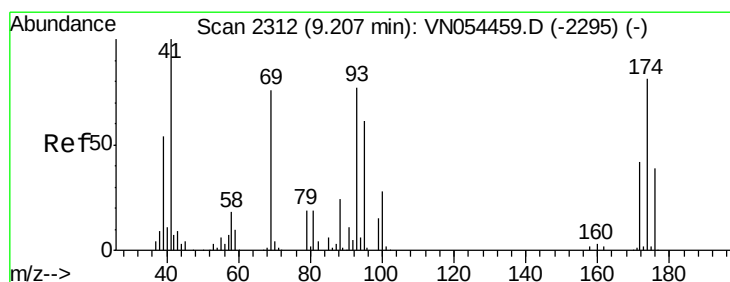
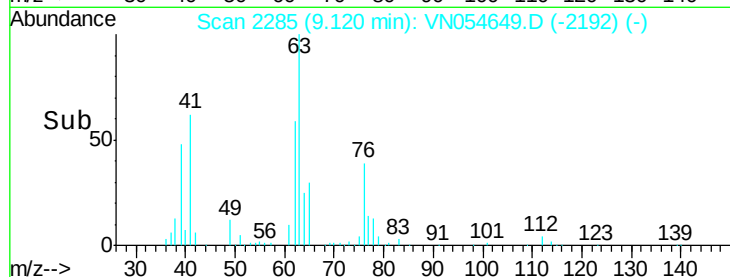
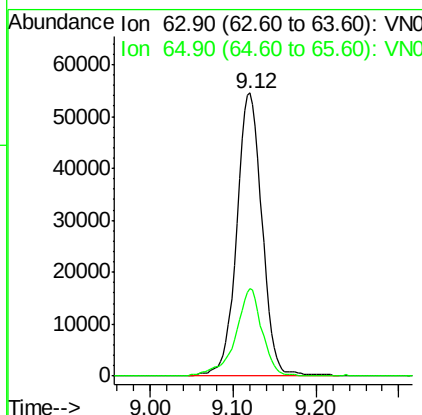
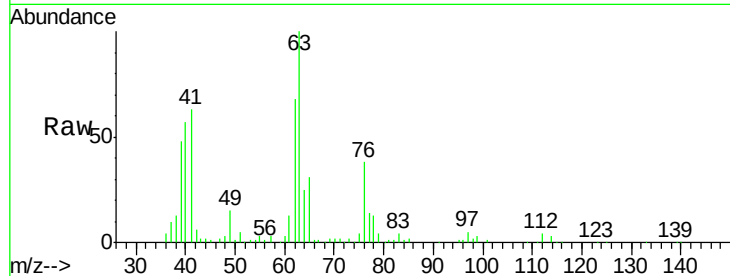
#45
 1,2-Dichloropropane
 Concen: 22.172 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. -0.00 min
 Lab File: VN054649.D
 Acq: 24 Mar 2019 15:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0324MBSD01

Tot Ion: 63 Resp: 116517
 Ion Ratio Lower Upper
 63 100
 65 31.0 25.0 37.6

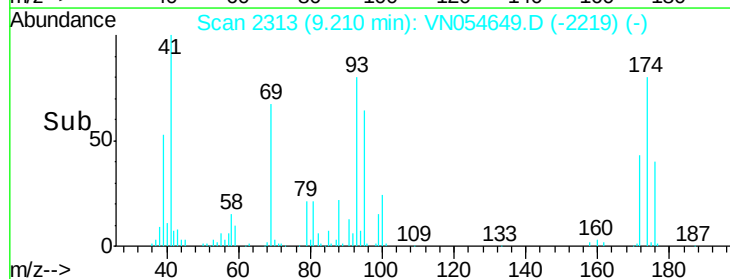
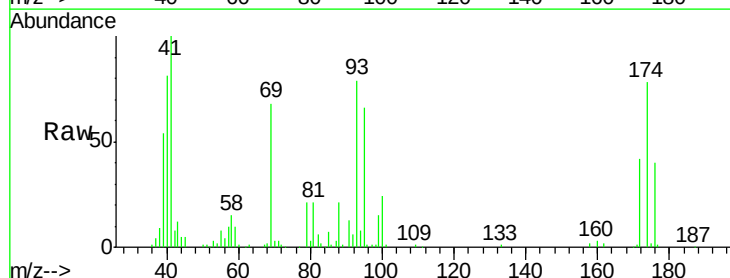
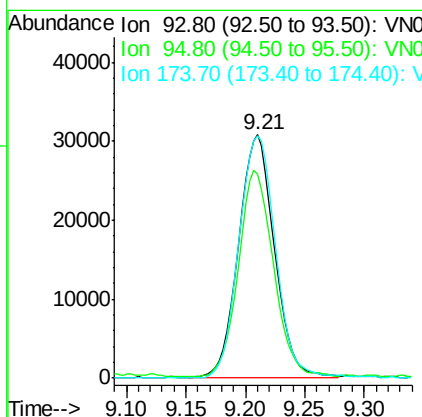
Manual Integrations
 APPROVED

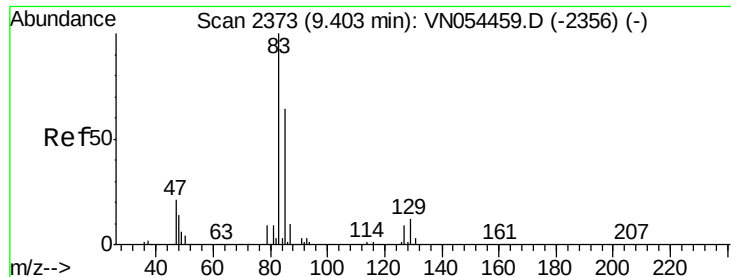
MMDadoda
 3/25/2019 9:54:55 AM



#46
 Dibromomethane
 Concen: 20.654 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN054649.D
 Acq: 24 Mar 2019 15:41

Tgt Ion: 93 Resp: 64750
 Ion Ratio Lower Upper
 93 100
 95 82.3 66.7 100.1
 174 100.9 98.5 147.7





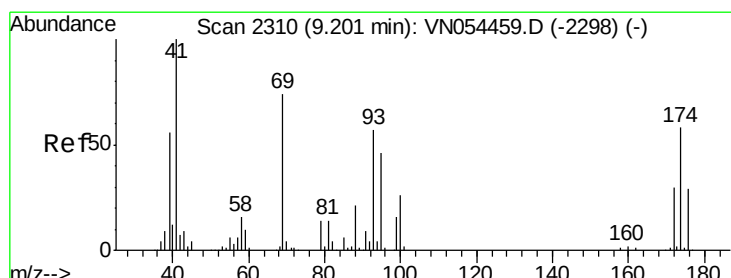
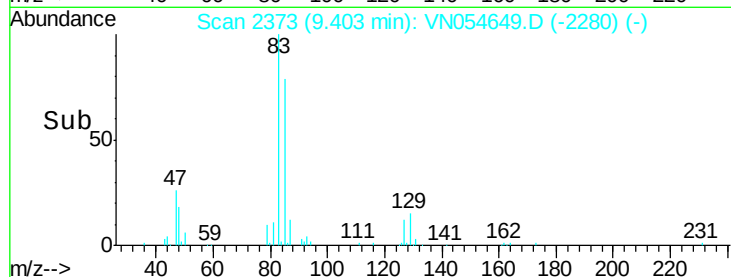
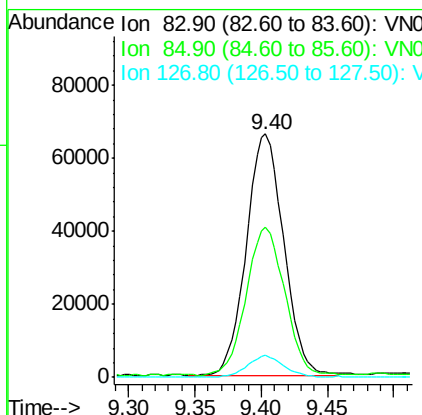
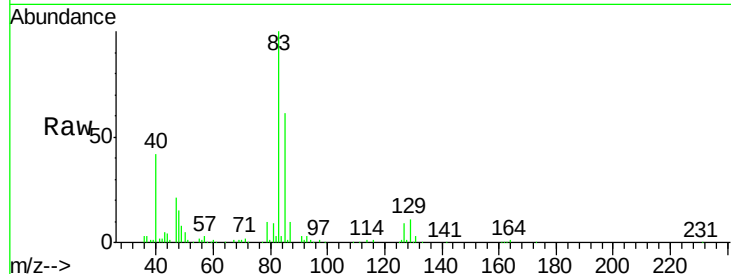
#47
Bromodichloromethane
Concen: 20.074 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. -0.00 min
Lab File: VN054649.D
Acq: 24 Mar 2019 15:41

Instrument :
MSVOA_N
ClientSampleId :
VN0324MBSD01

Tot Ion	83	Resp	130610
Ion Ratio	100		
83	100		
85	60.7	52.8	79.2
127	9.0	7.4	11.2

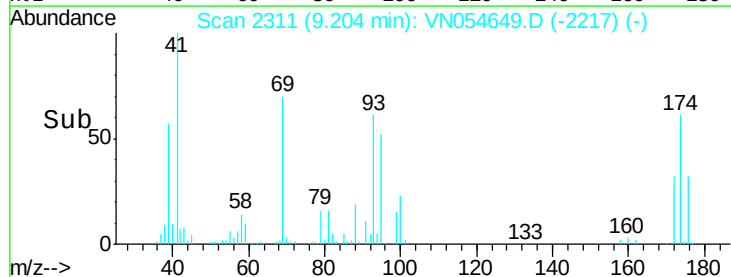
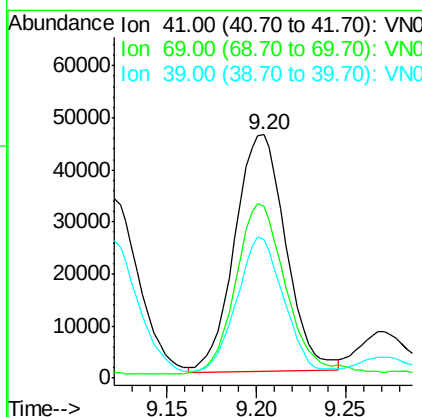
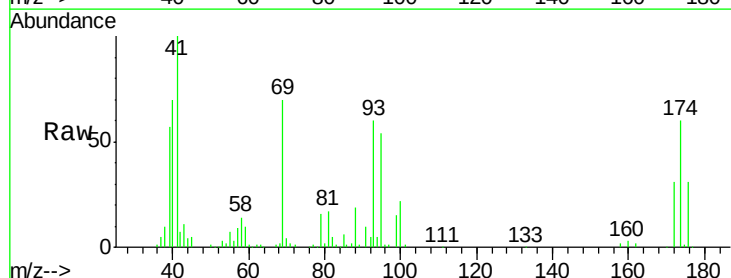
Manual Integrations
APPROVED

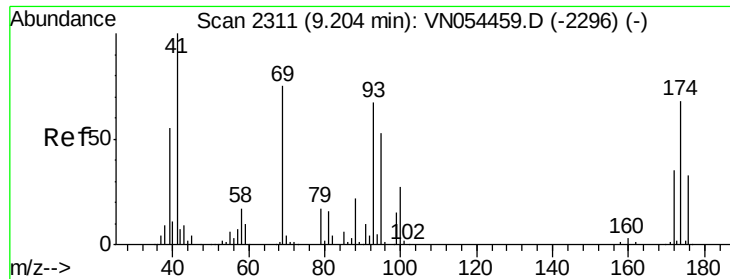
MMDadoda
3/25/2019 9:54:55 AM



#48
Methyl methacrylate
Concen: 20.345 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN054649.D
Acq: 24 Mar 2019 15:41

Tgt Ion	41	Resp	90778
Ion Ratio	100		
41	100		
69	71.2	72.6	108.8#
39	55.0	47.5	71.3





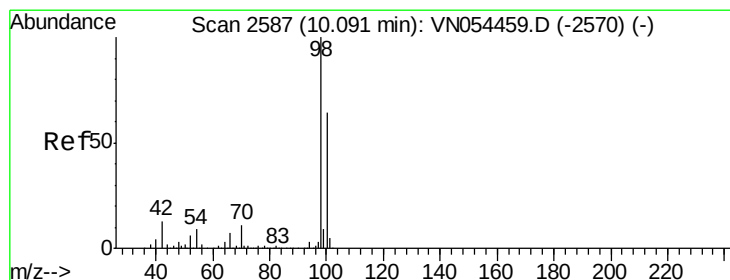
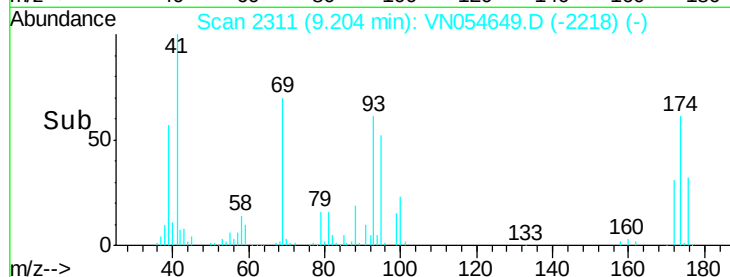
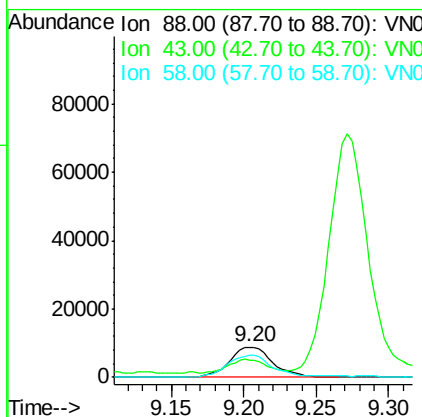
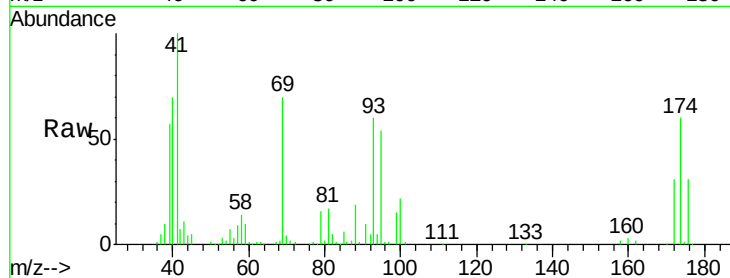
#49
1,4-Dioxane
Concen: 372.387 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. -0.00 min
Lab File: VN054649.D
Acq: 24 Mar 2019 15:41

Instrument :
MSVOA_N
ClientSampleId :
VN0324MBSD01

Tot Ion	Ratio	Lower	Upper
88	100		
43	37.4	24.1	36.1#
58	73.0	50.8	76.2

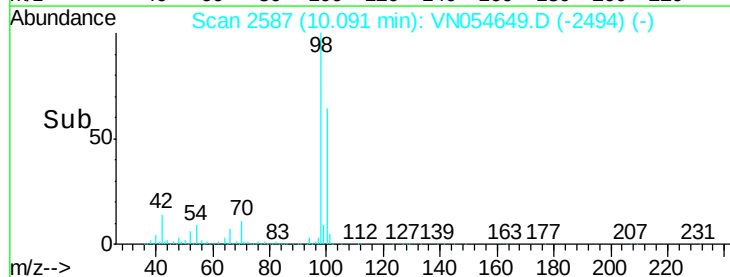
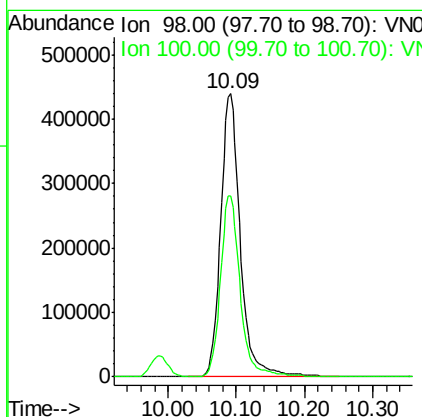
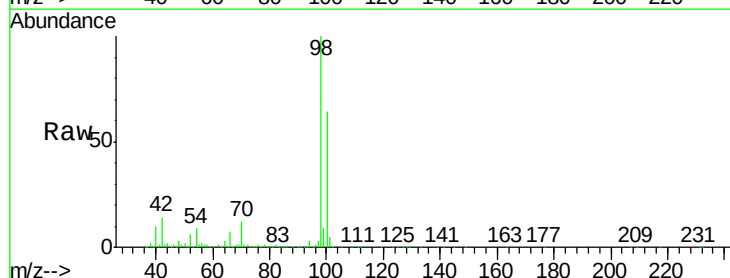
Manual Integrations
APPROVED

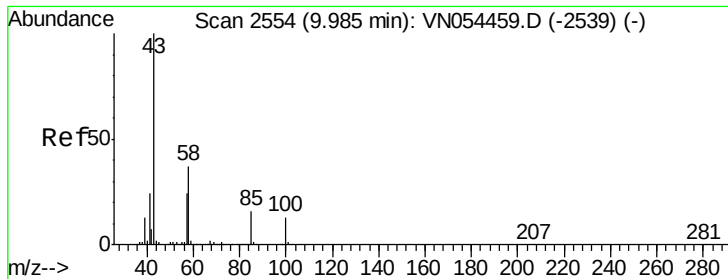
MMDadoda
3/25/2019 9:54:55 AM



#50
Toluene-d8
Concen: 49.578 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN054649.D
Acq: 24 Mar 2019 15:41

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.2	51.2	76.8





#51

4-Methyl-2-Pentanone

Concen: 106.528 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN054649.D

Acq: 24 Mar 2019 15:41

Instrument :

MSVOA_N

ClientSampleId :

VN0324MBSD01

Tot Ion: 43 Resp: 485331

Ion Ratio Lower Upper

43 100

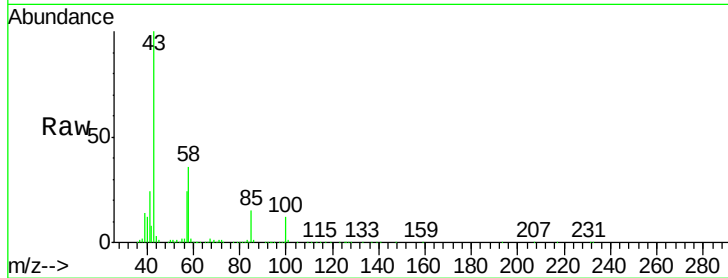
58 36.0 31.8 47.6

Manual Integrations

APPROVED

MMDadoda

3/25/2019 9:54:55 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.99

250000

200000

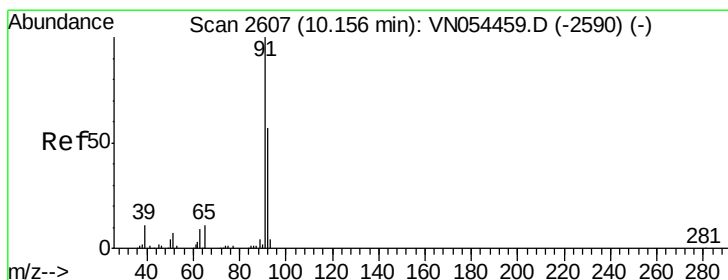
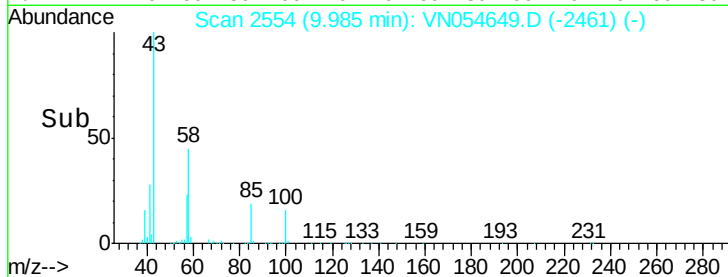
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 20.062 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN054649.D

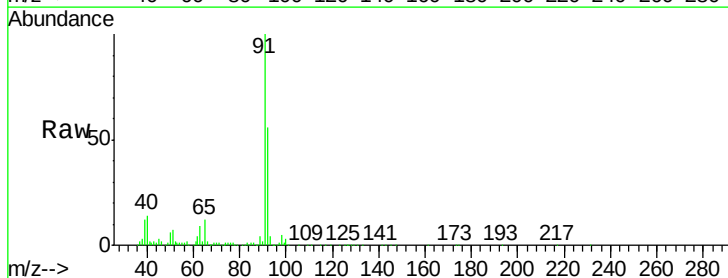
Acq: 24 Mar 2019 15:41

Tgt Ion: 92 Resp: 241480

Ion Ratio Lower Upper

92 100

91 175.3 140.7 211.1



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

250000

200000

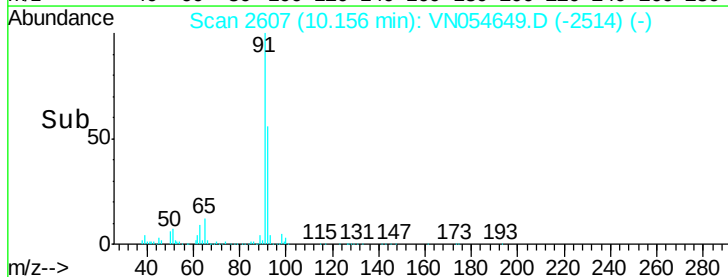
150000

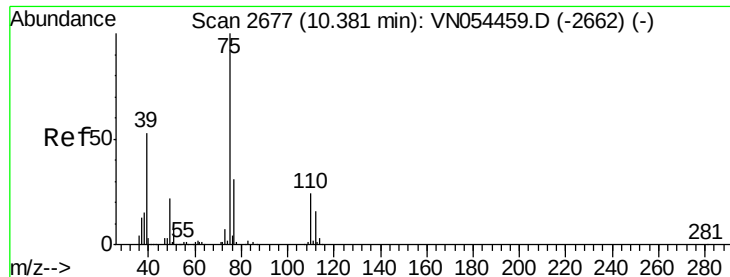
100000

50000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 17.953 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN054649.D

Acq: 24 Mar 2019 15:41

Instrument :

MSVOA_N

ClientSampled :

VN0324MBSD01

Tot Ion: 75 Resp: 112944

Ion Ratio Lower Upper

75 100

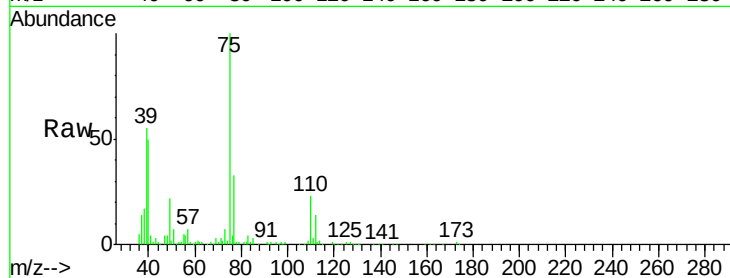
77 32.3 25.8 38.8

Manual Integrations

APPROVED

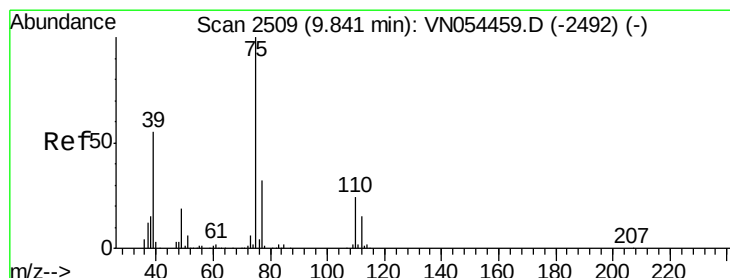
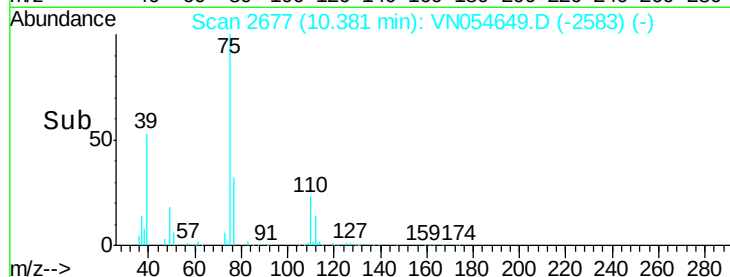
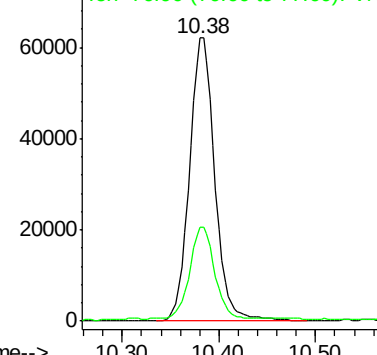
MMDadoda

3/25/2019 9:54:55 AM



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#54

cis-1,3-Dichloropropene

Concen: 19.670 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VN054649.D

Acq: 24 Mar 2019 15:41

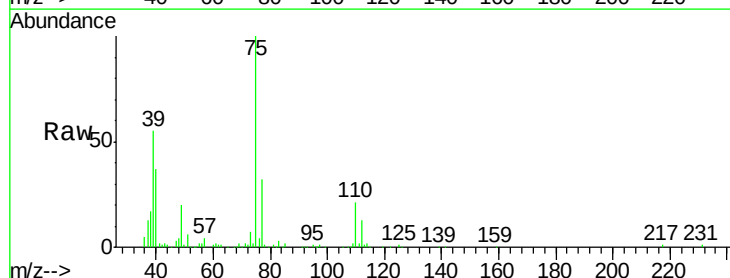
Tgt Ion: 75 Resp: 146743

Ion Ratio Lower Upper

75 100

77 31.4 25.4 38.0

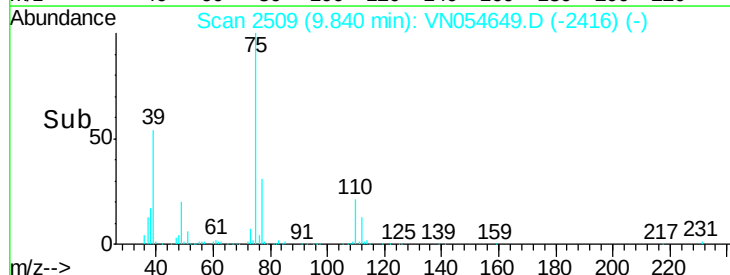
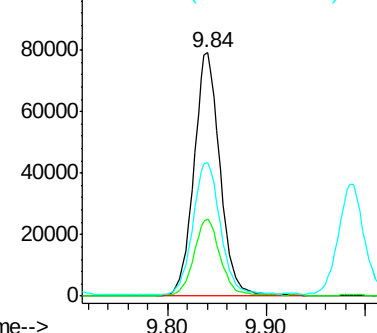
39 54.0 37.2 55.8

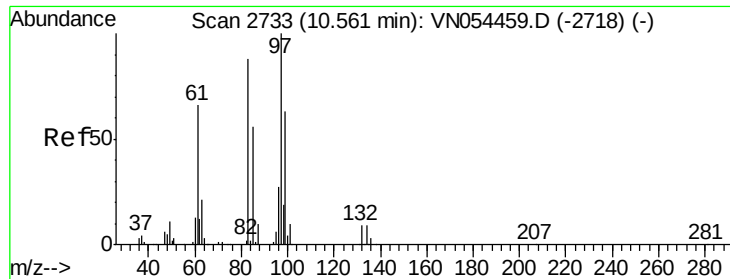


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





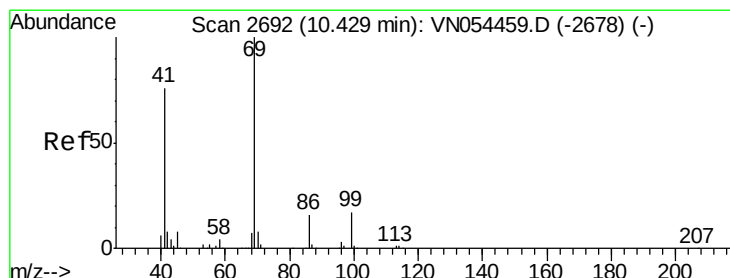
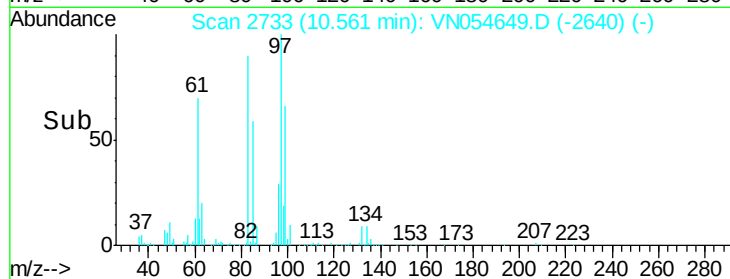
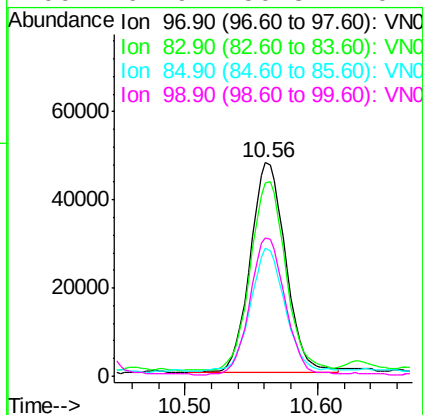
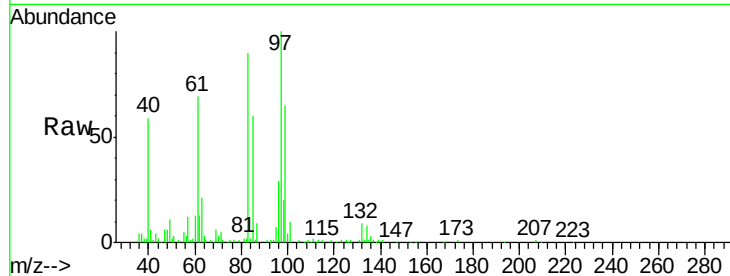
#55
 1,1,2-Trichloroethane
 Concen: 20.447 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN054649.D
 Acq: 24 Mar 2019 15:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0324MBSD01

Tot Ion	97	Resp	88468
Ion	Ratio	Lower	Upper
97	100		
83	88.9	66.6	100.0
85	58.1	44.4	66.6
99	64.9	50.8	76.2

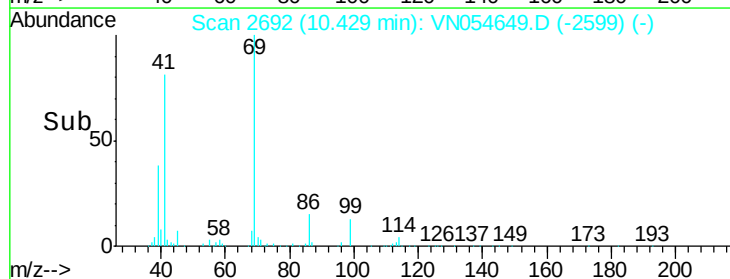
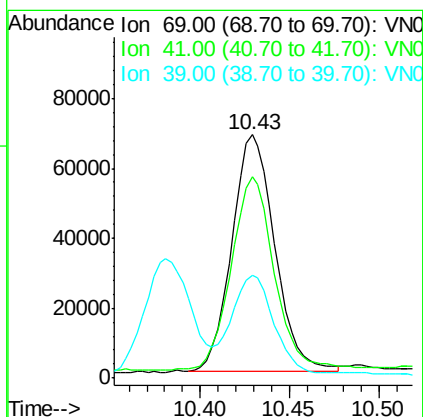
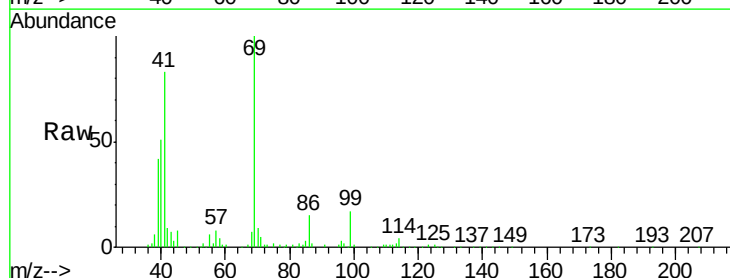
Manual Integrations
 APPROVED

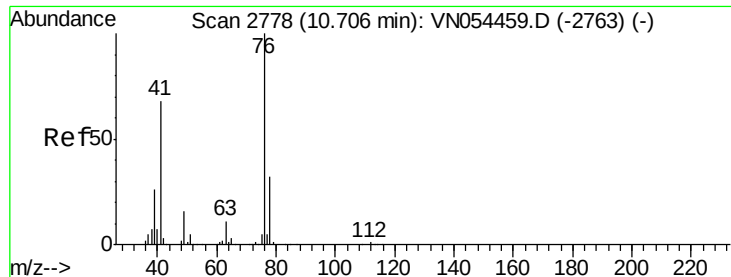
MMDadoda
 3/25/2019 9:54:55 AM



#56
 Ethyl methacrylate
 Concen: 19.637 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. -0.00 min
 Lab File: VN054649.D
 Acq: 24 Mar 2019 15:41

Tgt Ion	69	Resp	114038
Ion	Ratio	Lower	Upper
69	100		
41	82.4	49.4	74.2#
39	40.9	28.3	42.5





#57

1,3-Dichloropropane

Concen: 21.113 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN054649.D

Acq: 24 Mar 2019 15:41

Instrument :

MSVOA_N

ClientSampleId :

VN0324MBSD01

Tot Ion: 76 Resp: 158796

Ion Ratio Lower Upper

76 100

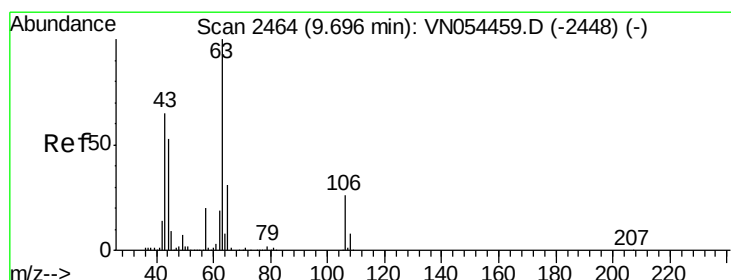
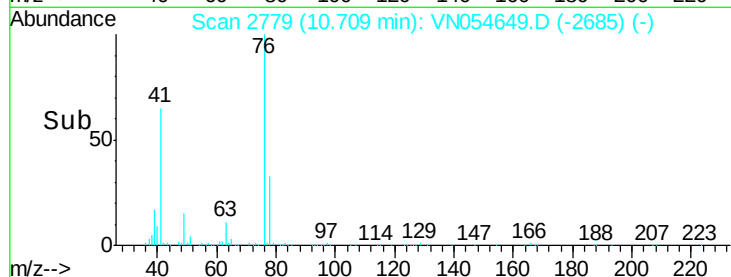
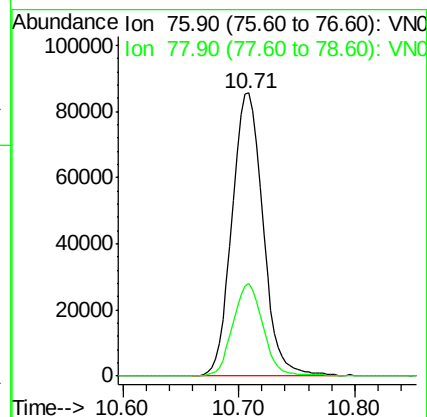
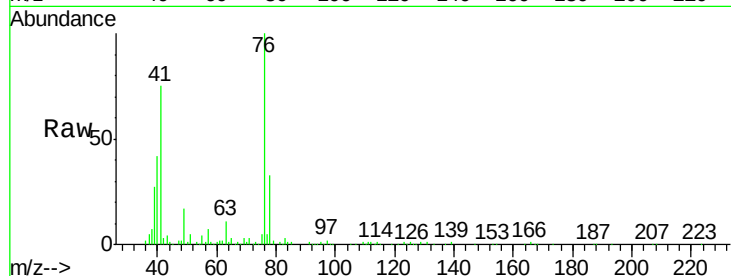
78 31.6 25.7 38.5

Manual Integrations

APPROVED

MMDadoda

3/25/2019 9:54:55 AM



#58

2-Chloroethyl Vinyl ether

Concen: 80.598 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. -0.00 min

Lab File: VN054649.D

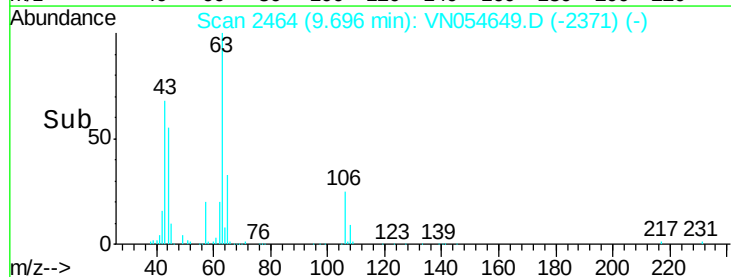
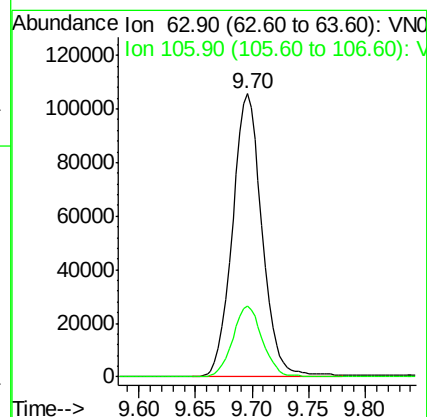
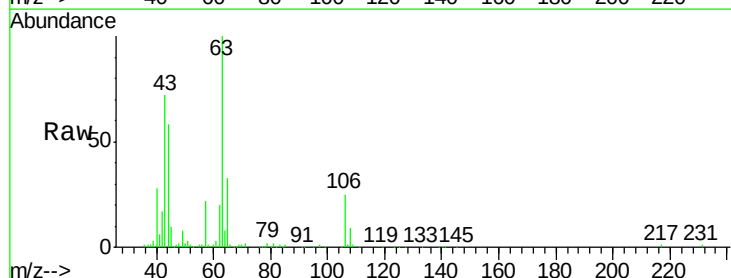
Acq: 24 Mar 2019 15:41

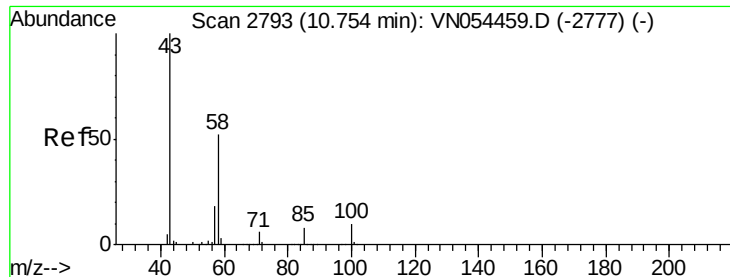
Tgt Ion: 63 Resp: 192737

Ion Ratio Lower Upper

63 100

106 25.1 24.4 36.6





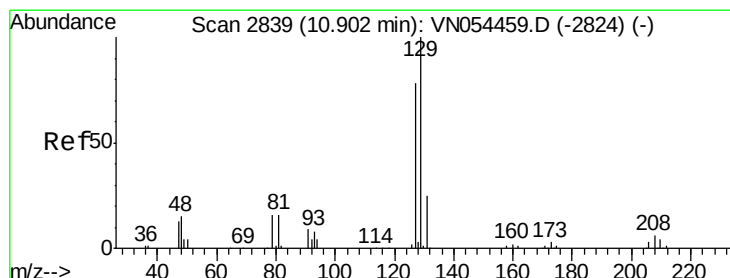
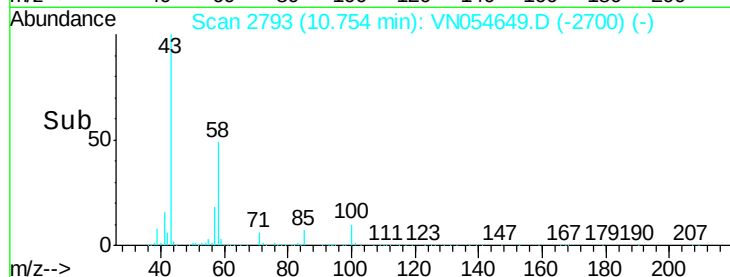
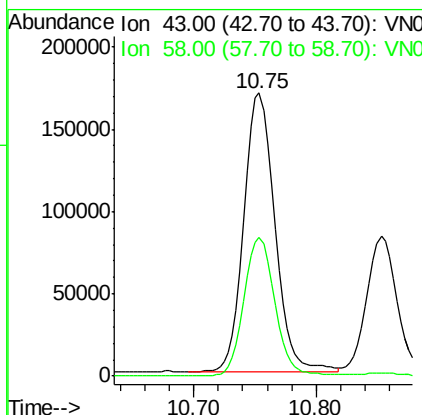
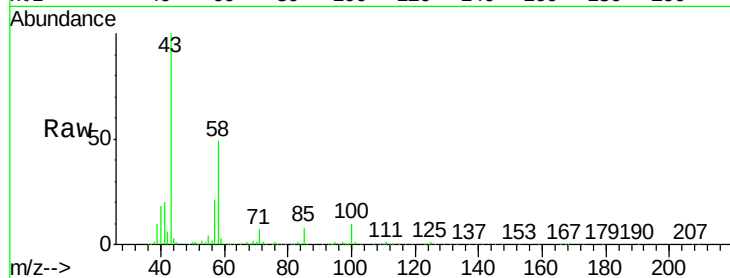
#59
2-Hexanone
Concen: 100.597 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. -0.00 min
Lab File: VN054649.D
Acq: 24 Mar 2019 15:41

Instrument :
MSVOA_N
ClientSampleId :
VN0324MBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
58	48.7	28.0	83.9

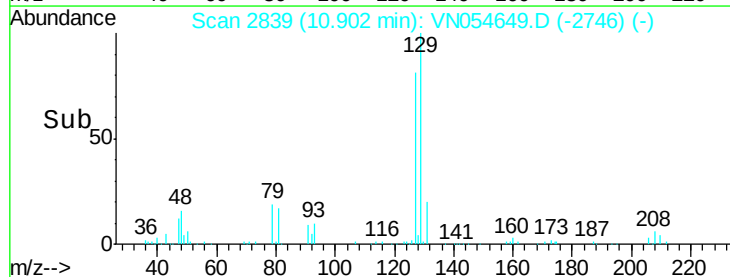
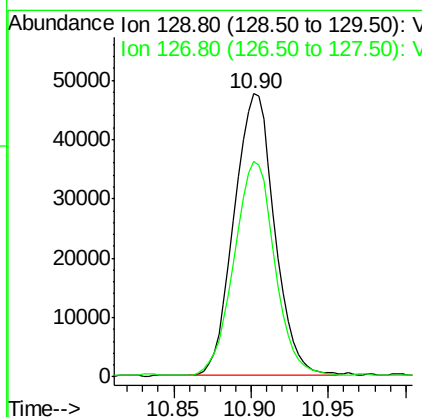
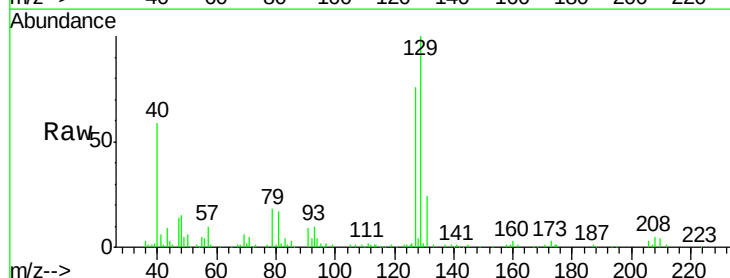
Manual Integrations
APPROVED

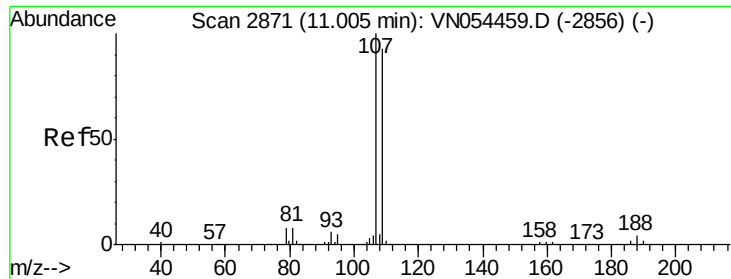
MMDadoda
3/25/2019 9:54:55 AM



#60
Dibromochloromethane
Concen: 18.725 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN054649.D
Acq: 24 Mar 2019 15:41

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.1	38.6	115.8





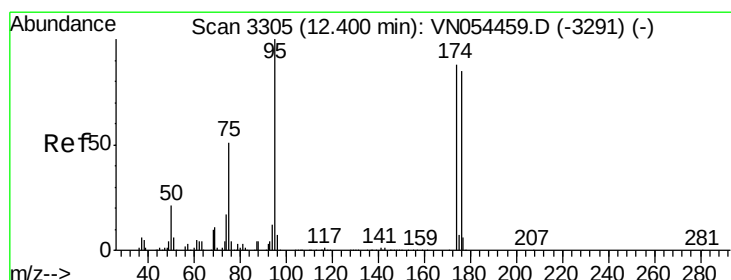
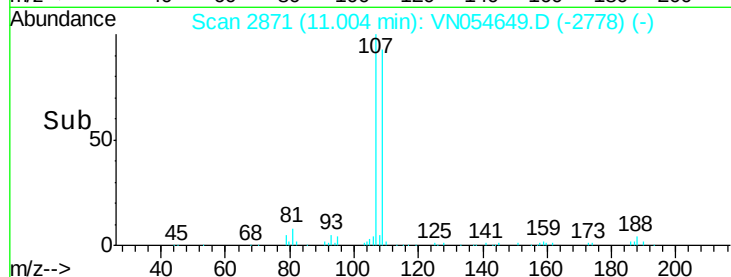
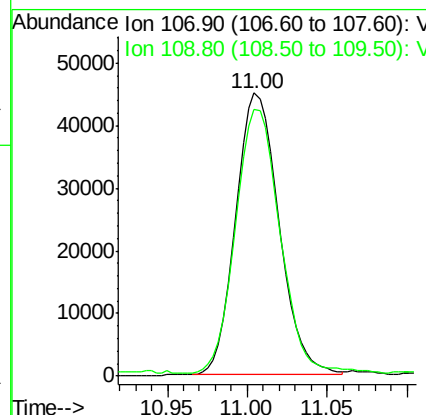
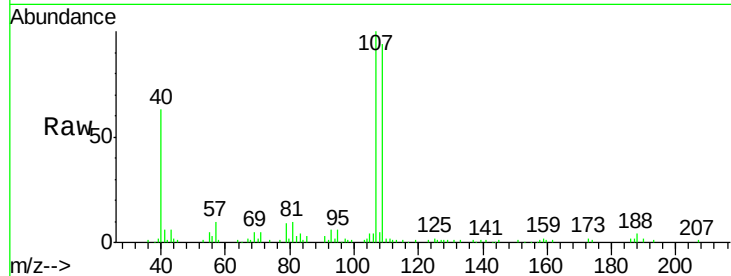
#61
 1,2-Dibromoethane
 Concen: 19.505 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN054649.D
 Acq: 24 Mar 2019 15:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0324MBSD01

Tot Ion: 107 Resp: 83434
 Ion Ratio Lower Upper
 107 100
 109 95.9 75.9 113.9

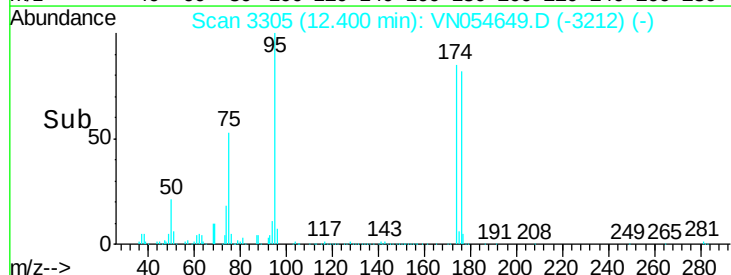
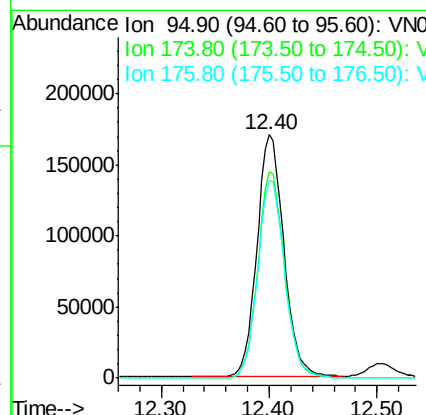
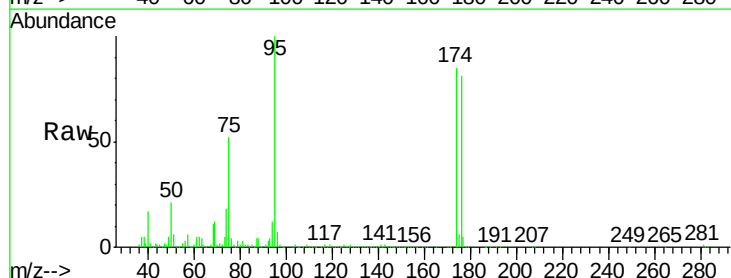
Manual Integrations
 APPROVED

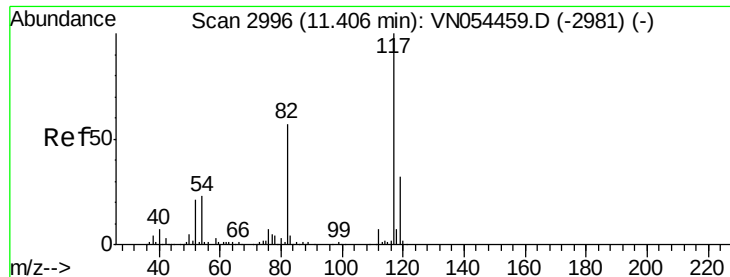
MMDadoda
 3/25/2019 9:54:55 AM



#62
 4-Bromofluorobenzene
 Concen: 48.878 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN054649.D
 Acq: 24 Mar 2019 15:41

Tgt Ion: 95 Resp: 294853
 Ion Ratio Lower Upper
 95 100
 174 84.9 0.0 191.0
 176 81.9 0.0 187.4





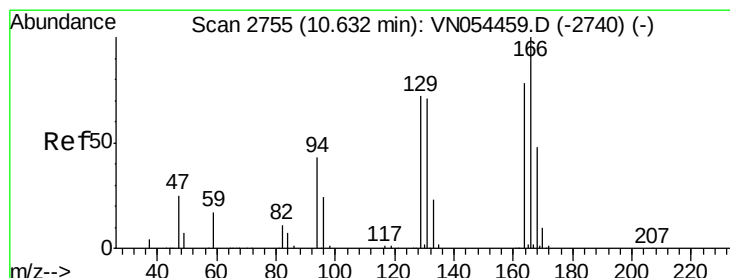
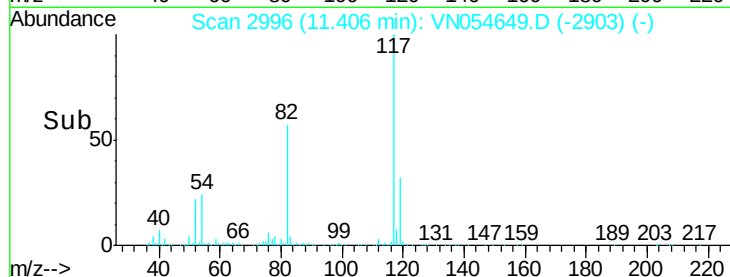
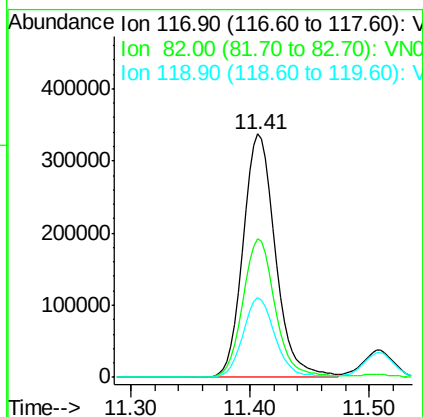
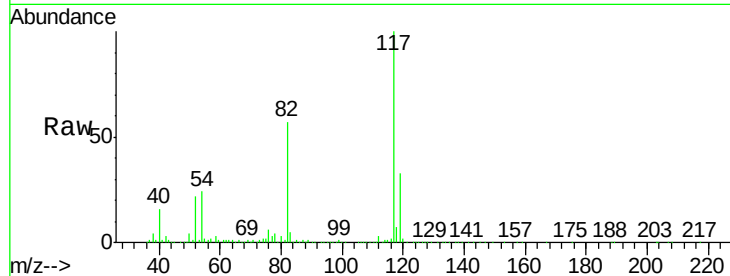
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054649.D
Acq: 24 Mar 2019 15:41

Instrument :
MSVOA_N
ClientSampleId :
VN0324MBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.9	40.0	60.0
119	32.7	25.8	38.6

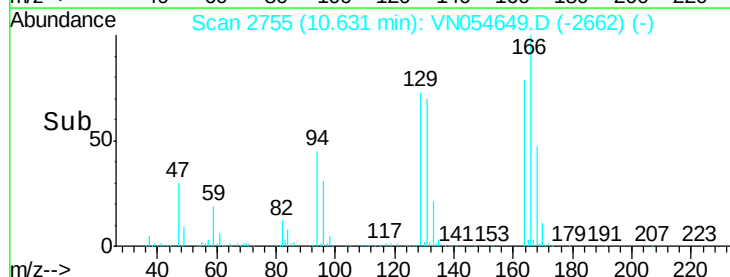
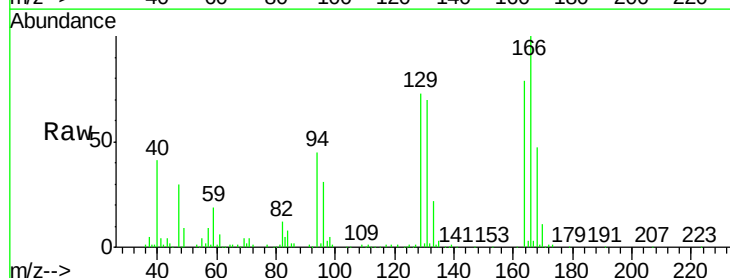
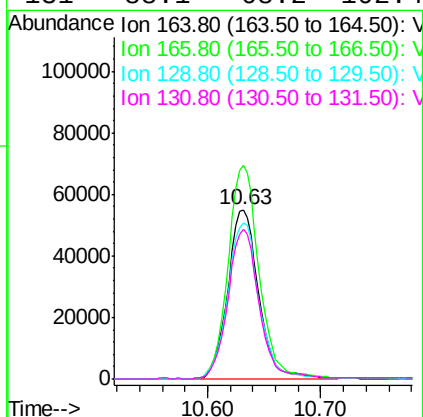
Manual Integrations
APPROVED

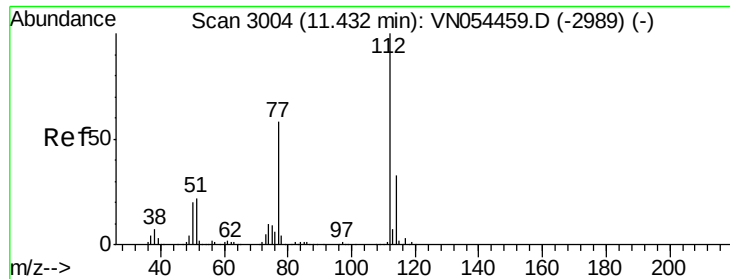
MMDadoda
3/25/2019 9:54:55 AM



#64
Tetrachloroethene
Concen: 19.932 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN054649.D
Acq: 24 Mar 2019 15:41

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.3	103.9	155.9
129	92.0	71.1	106.7
131	88.1	68.2	102.4





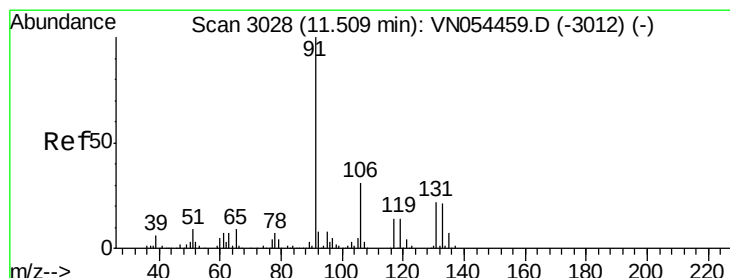
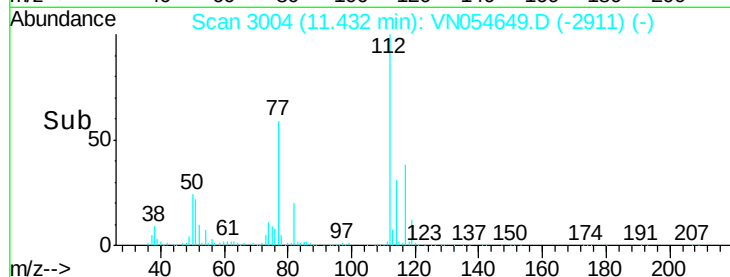
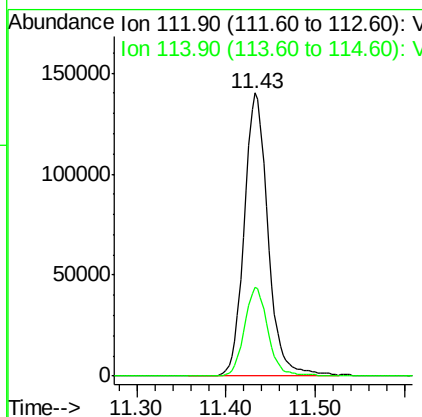
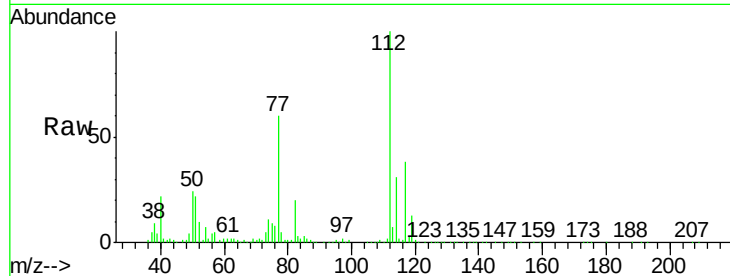
#65
Chlorobenzene
Concen: 20.194 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN054649.D
Acq: 24 Mar 2019 15:41

Instrument :
MSVOA_N
ClientSampleId :
VN0324MBSD01

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.3	25.9	38.9

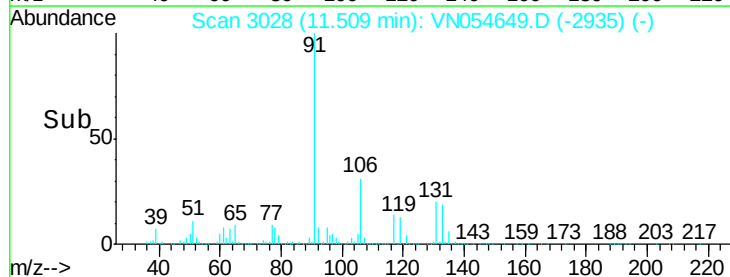
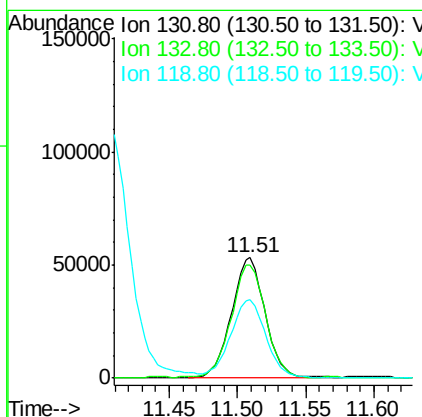
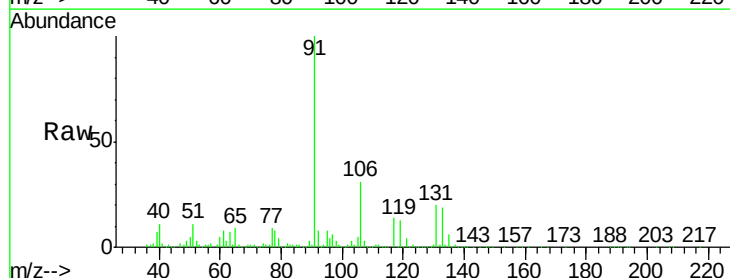
Manual Integrations
APPROVED

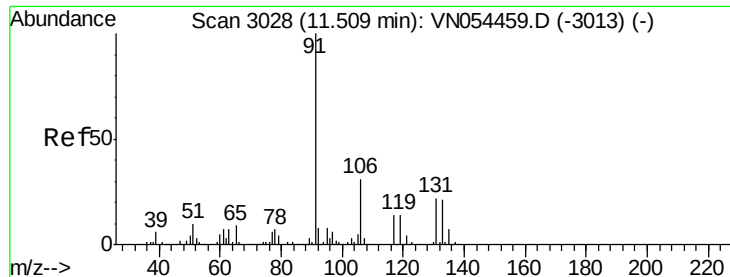
MMDadoda
3/25/2019 9:54:55 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.348 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN054649.D
Acq: 24 Mar 2019 15:41

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.8	47.6	142.9
119	68.7	32.4	97.0





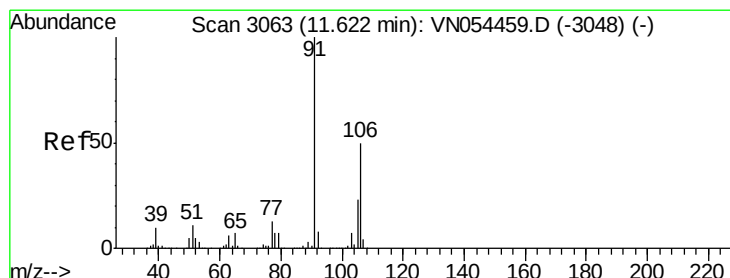
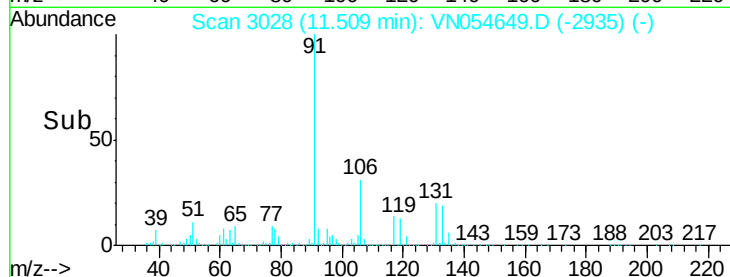
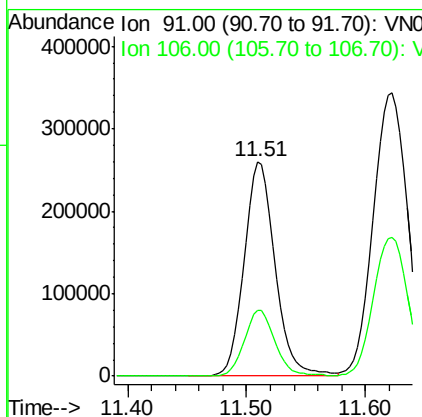
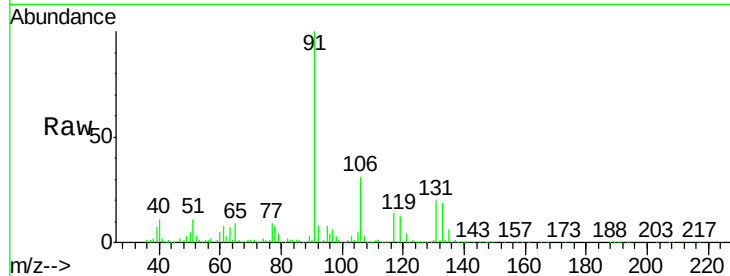
#67
Ethyl Benzene
Concen: 20.469 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN054649.D
Acq: 24 Mar 2019 15:41

Instrument :
MSVOA_N
ClientSampleId :
VN0324MBSD01

Tot Ion: 91 Resp: 466507
Ion Ratio Lower Upper
91 100
106 30.8 25.5 38.3

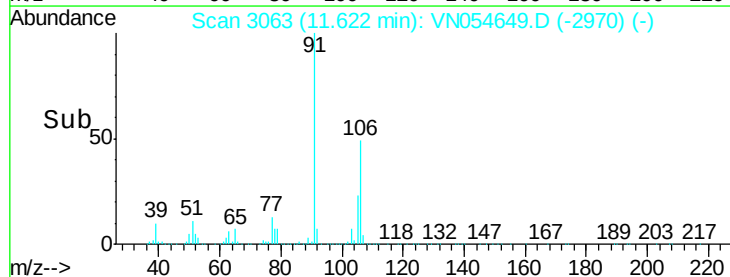
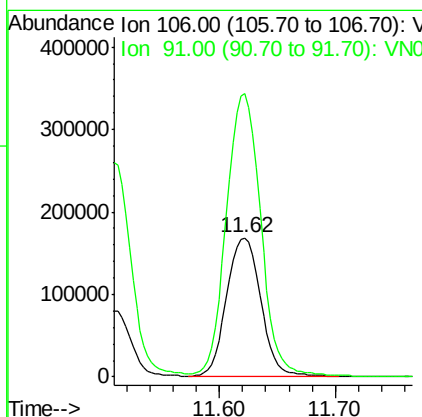
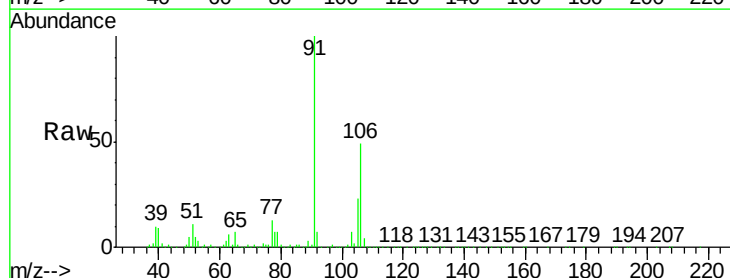
Manual Integrations
APPROVED

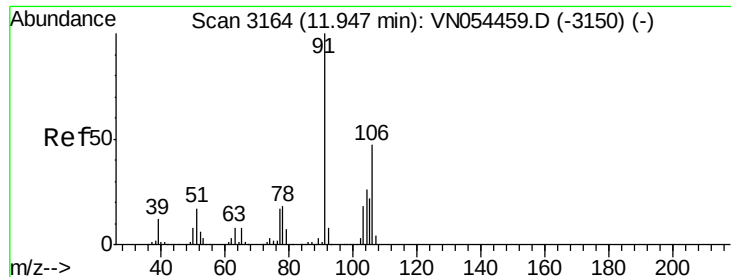
MMDadoda
3/25/2019 9:54:55 AM



#68
m/p-Xylenes
Concen: 39.776 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. -0.00 min
Lab File: VN054649.D
Acq: 24 Mar 2019 15:41

Tgt Ion: 106 Resp: 343370
Ion Ratio Lower Upper
106 100
91 205.9 159.4 239.2





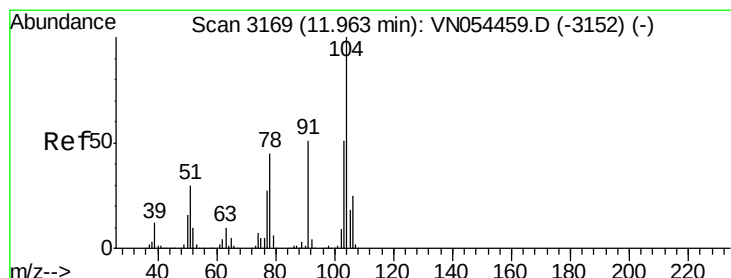
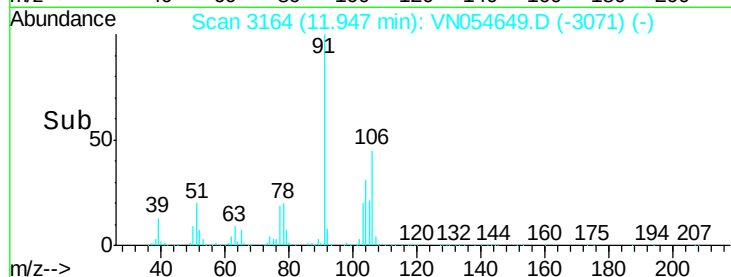
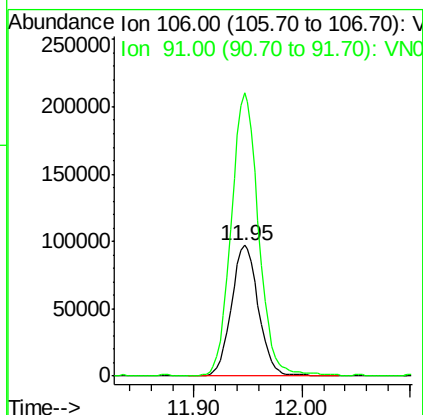
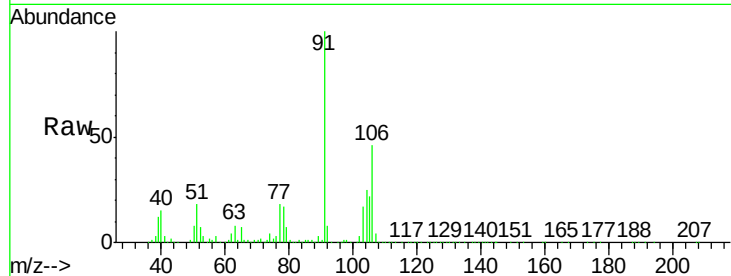
#69
o-Xylene
Concen: 20.281 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN054649.D
Acq: 24 Mar 2019 15:41

Instrument :
MSVOA_N
ClientSampleId :
VN0324MBSD01

Tot Ion:106 Resp: 170980
Ion Ratio Lower Upper
106 100
91 215.4 105.7 317.1

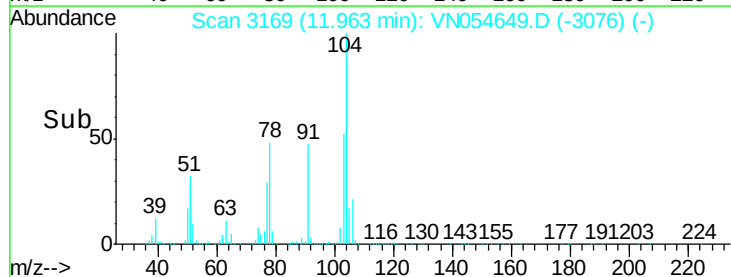
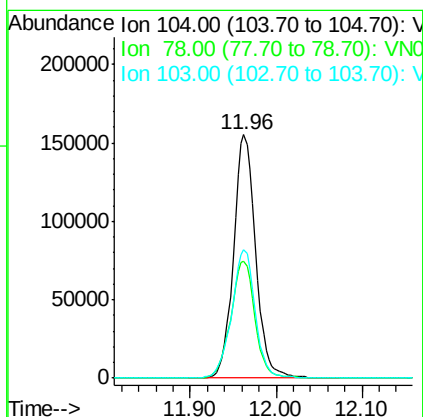
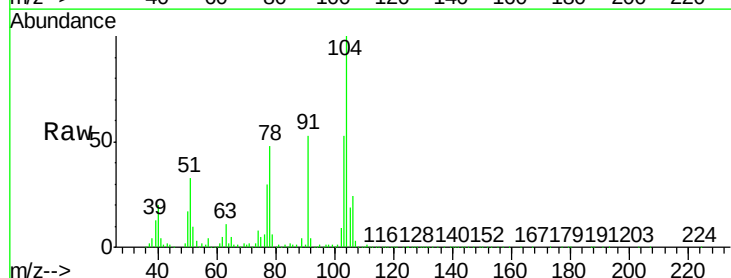
Manual Integrations
APPROVED

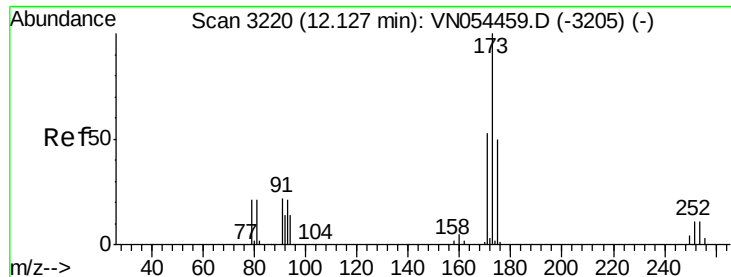
MMDadoda
3/25/2019 9:54:55 AM



#70
Styrene
Concen: 20.179 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN054649.D
Acq: 24 Mar 2019 15:41

Tgt Ion:104 Resp: 276257
Ion Ratio Lower Upper
104 100
78 52.8 38.2 57.2
103 56.4 44.4 66.6





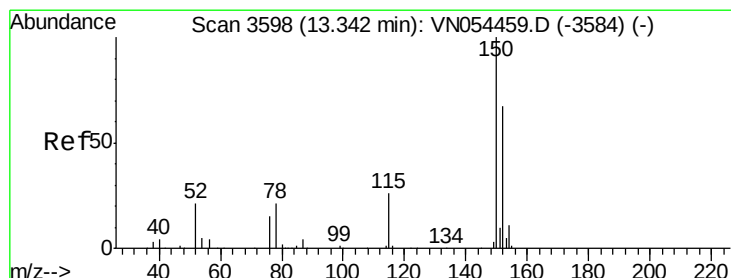
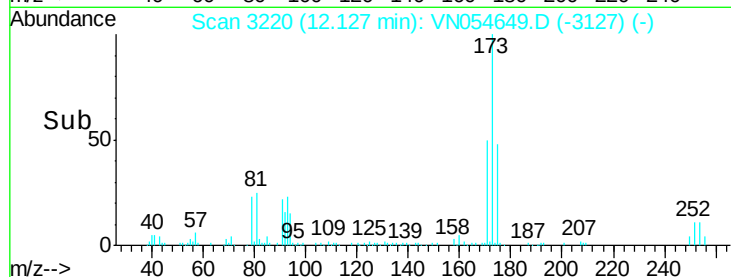
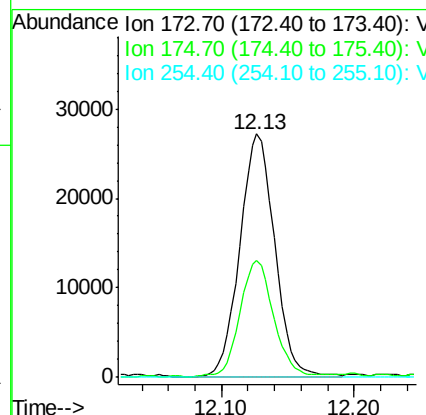
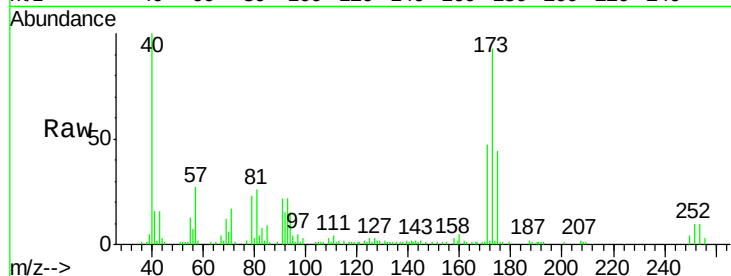
#71
Bromoform
Concen: 17.140 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN054649.D
Acq: 24 Mar 2019 15:41

Instrument :
MSVOA_N
ClientSampled :
VN0324MBSD01

Tot Ion	Ratio	Lower	Upper
173	100		
175	46.7	24.4	73.2
254	0.0	0.1	0.1#

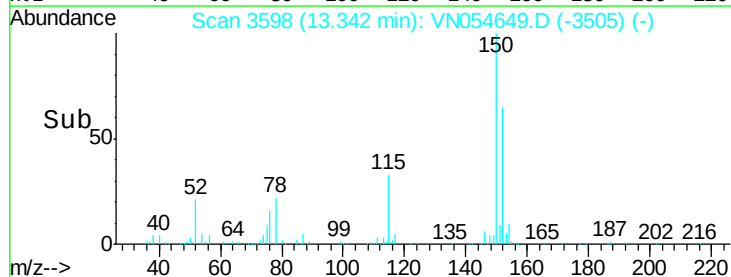
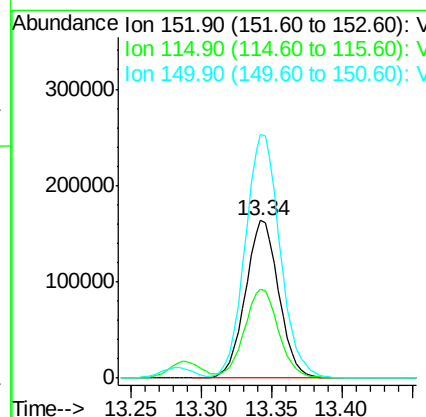
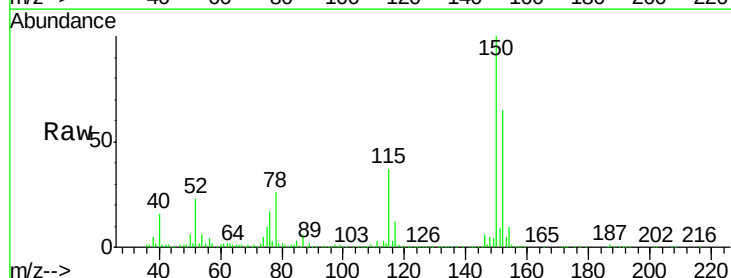
Manual Integrations
APPROVED

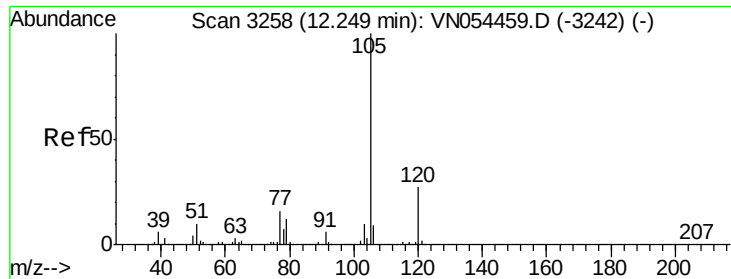
MMDadoda
3/25/2019 9:54:55 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN054649.D
Acq: 24 Mar 2019 15:41

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.2	27.2	81.6
150	162.8	0.0	349.2





#73

Isopropylbenzene

Concen: 20.745 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN054649.D

Acq: 24 Mar 2019 15:41

Instrument :

MSVOA_N

ClientSampleId :

VN0324MBSD01

Tot Ion:105 Resp: 451107

Ion Ratio Lower Upper

105 100

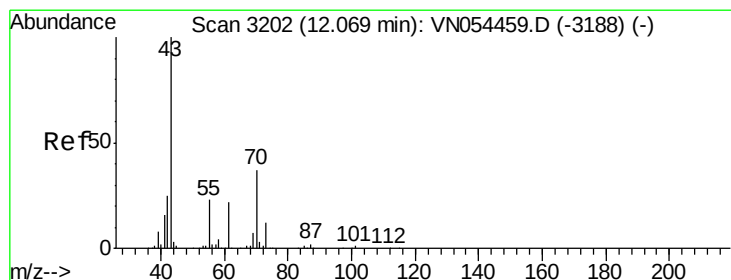
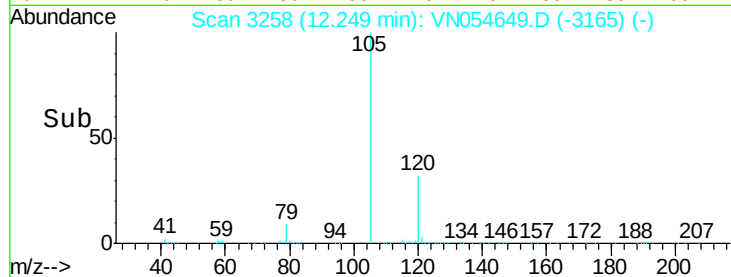
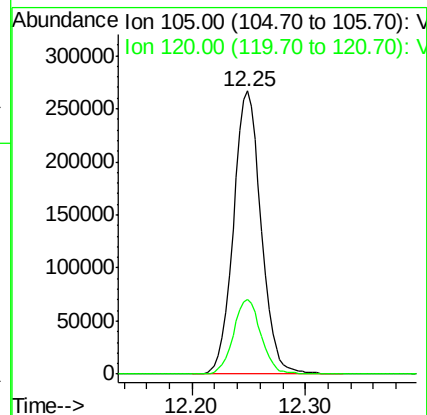
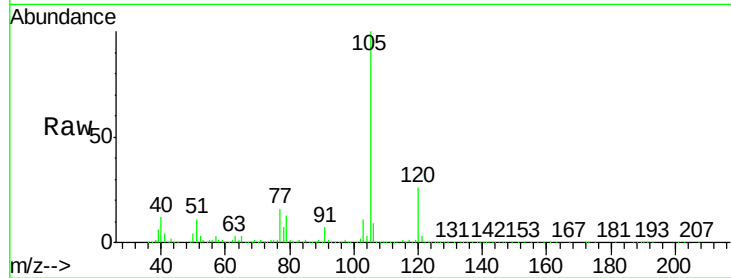
120 26.6 13.8 41.3

Manual Integrations

APPROVED

MMDadoda

3/25/2019 9:54:55 AM



#74

N-ethyl acetate

Concen: 21.846 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN054649.D

Acq: 24 Mar 2019 15:41

Tgt Ion: 43 Resp: 136593

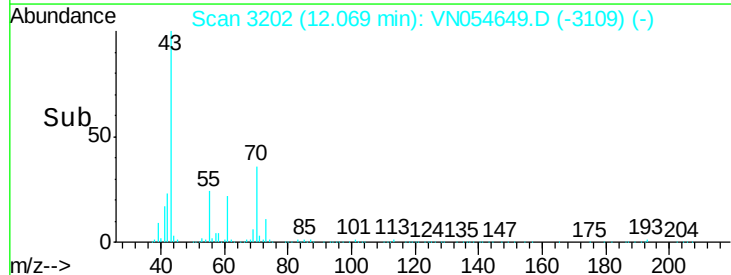
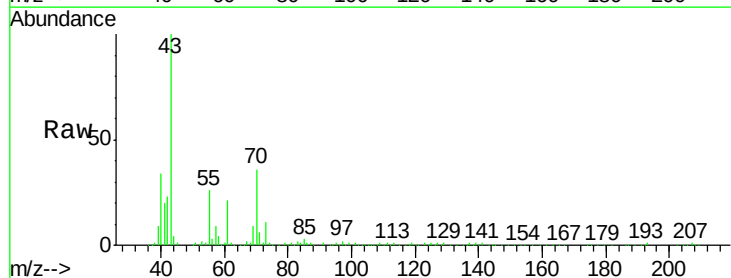
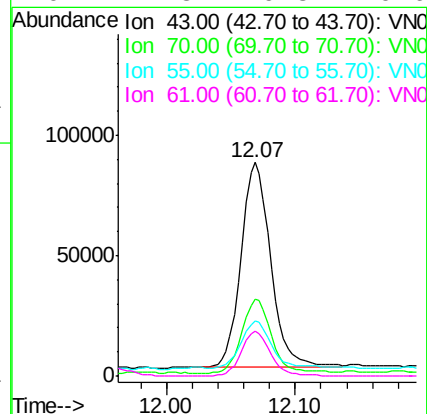
Ion Ratio Lower Upper

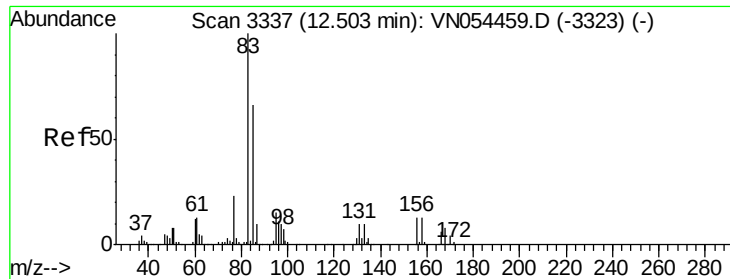
43 100

70 36.5 35.4 53.0

55 23.2 19.8 29.6

61 21.3 19.8 29.6





#75

1,1,2,2-Tetrachloroethane

Concen: 21.338 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN054649.D

Acq: 24 Mar 2019 15:41

Instrument :

MSVOA_N

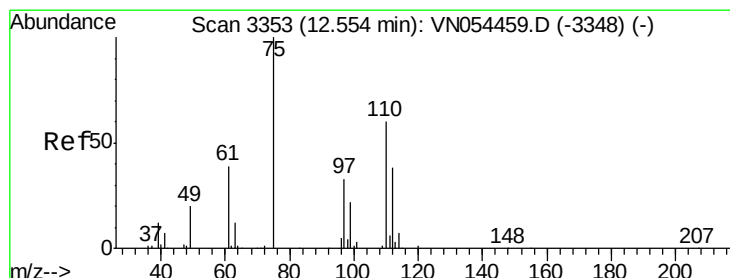
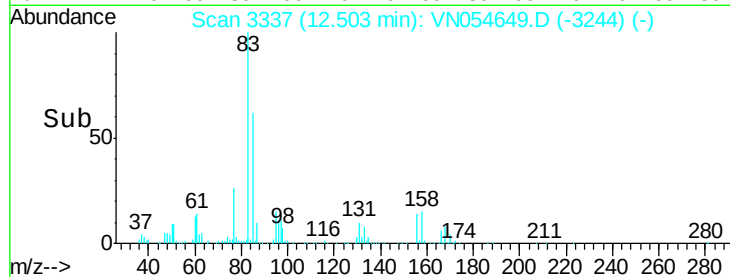
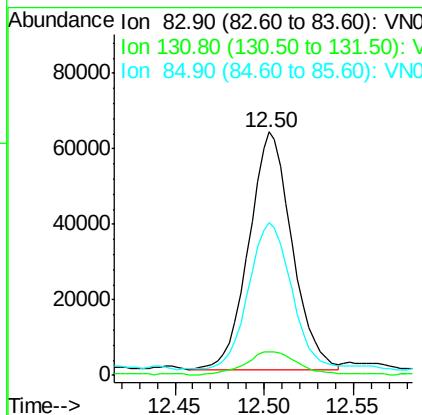
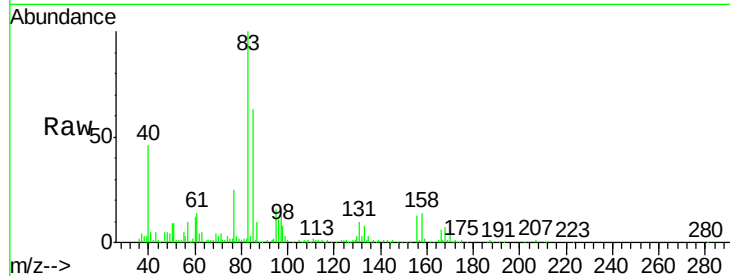
ClientSampleId :

VN0324MBSD01

Tot Ion:	83	Resp:	105917
Ion Ratio	Lower	Upper	
83	100		
131	11.4	5.8	17.4
85	61.7	32.2	96.6

Manual Integrations
APPROVED

MMDadoda
3/25/2019 9:54:55 AM



#76

1,2,3-Trichloropropane

Concen: 21.004 ug/l m

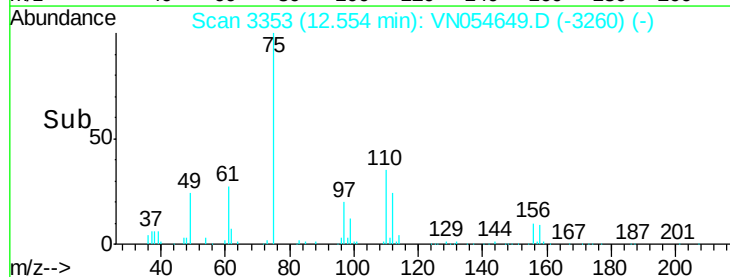
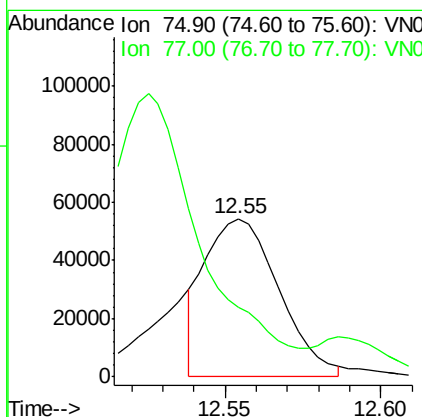
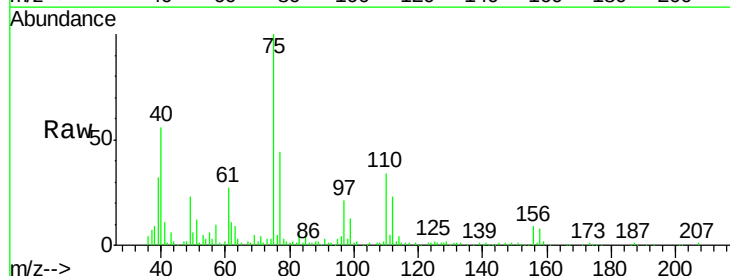
RT: 12.55 min Scan# 3353

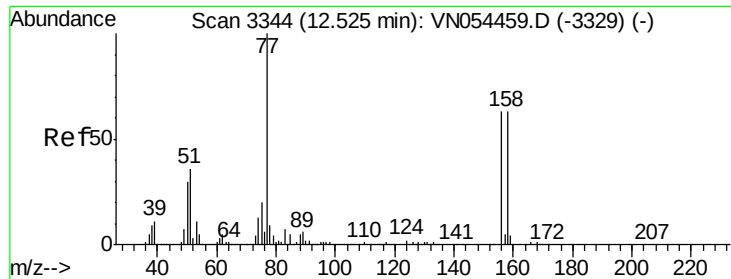
Delta R.T. -0.00 min

Lab File: VN054649.D

Acq: 24 Mar 2019 15:41

Tgt Ion:	75	Resp:	89941
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 20.276 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN054649.D

Acq: 24 Mar 2019 15:41

Instrument :

MSVOA_N

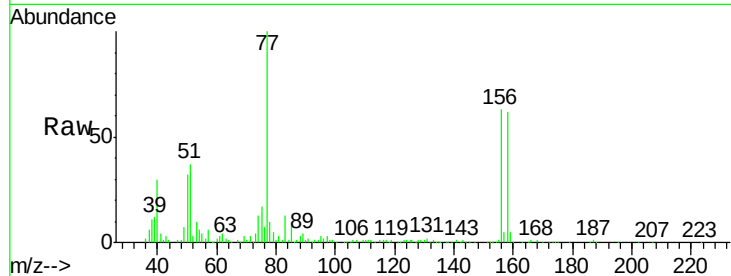
ClientSampleId :

VN0324MBSD01

Tot Ion:	156	Resp:	109352
Ion Ratio	Lower	Upper	
156	100		
77	188.5	81.5	244.4
158	97.5	49.0	147.2

Manual Integrations
APPROVED

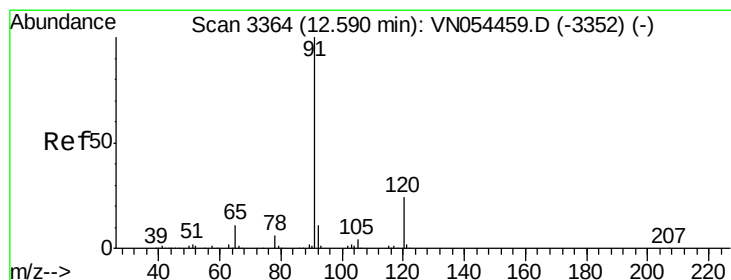
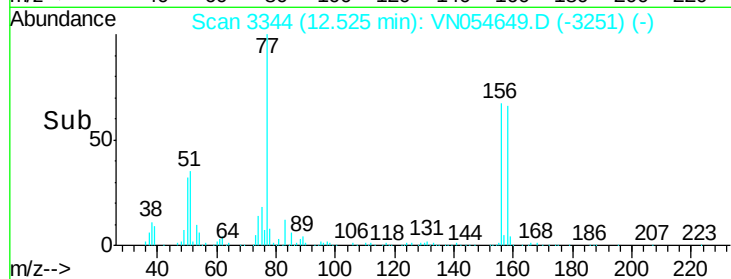
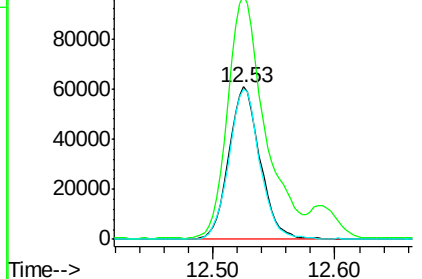
MMDadoda
3/25/2019 9:54:55 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 20.690 ug/l

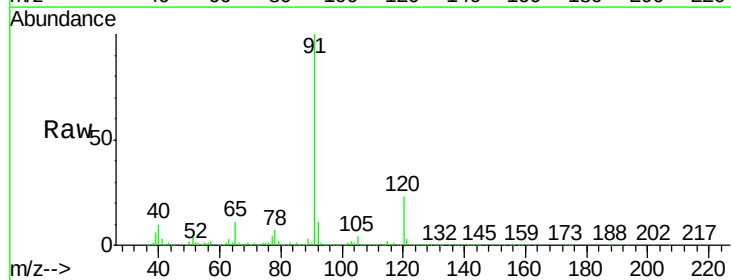
RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN054649.D

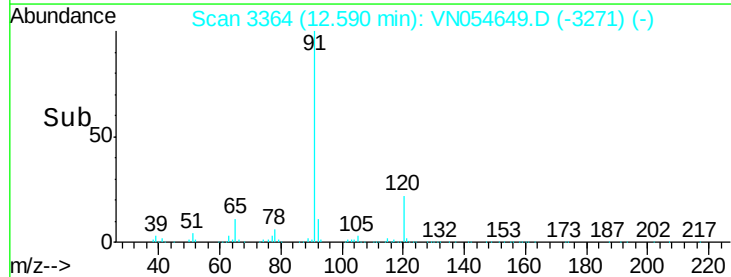
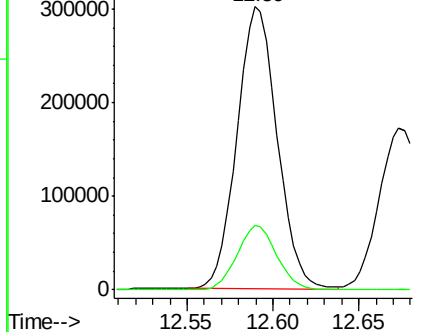
Acq: 24 Mar 2019 15:41

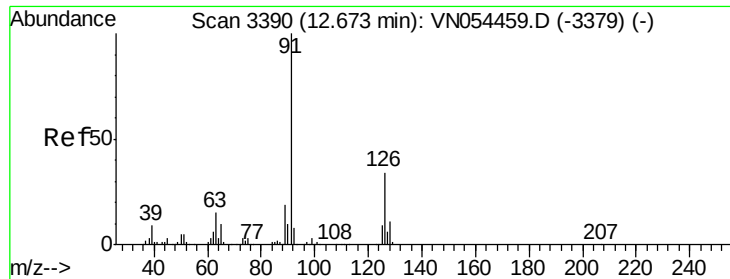
Tgt Ion:	91	Resp:	487863
Ion Ratio	Lower	Upper	
91	100		
120	22.7	12.3	36.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





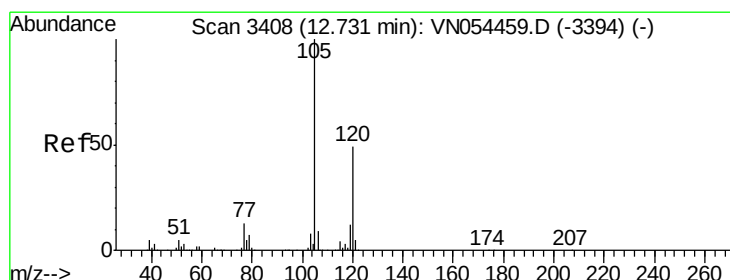
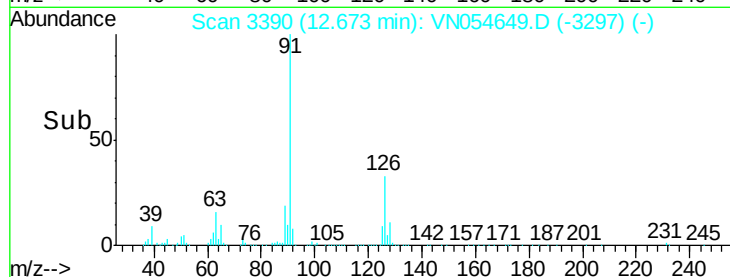
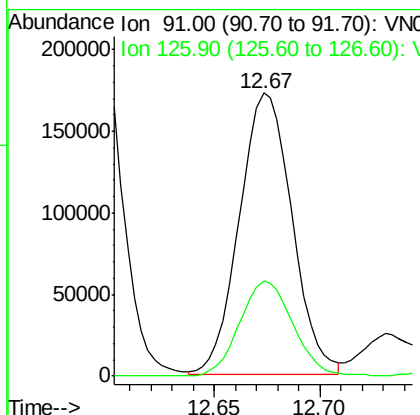
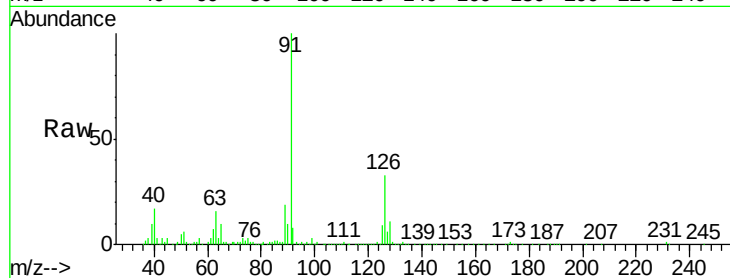
#79
2-Chlorotoluene
Concen: 20.349 ug/l
RT: 12.67 min Scan# 3390
Delta R.T. -0.00 min
Lab File: VN054649.D
Acq: 24 Mar 2019 15:41

Instrument :
MSVOA_N
ClientSampleId :
VN0324MBSD01

Tot Ion: 91 Resp: 299213
Ion Ratio Lower Upper
91 100
126 34.3 18.7 56.1

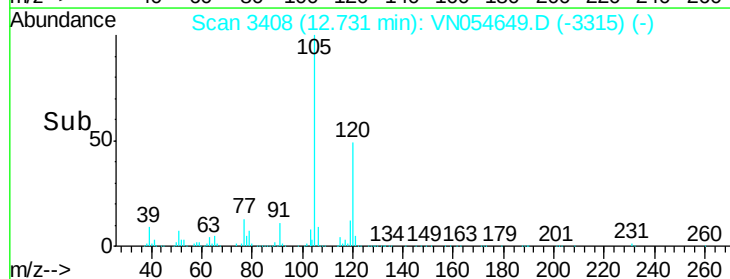
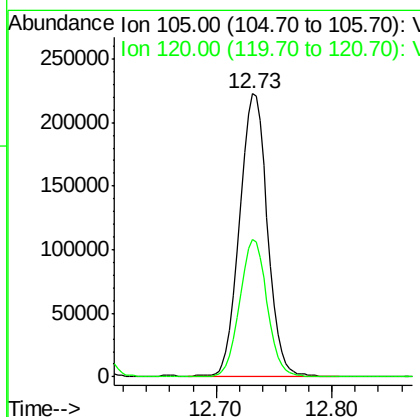
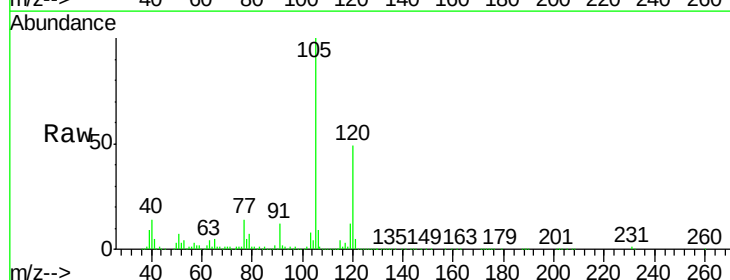
Manual Integrations
APPROVED

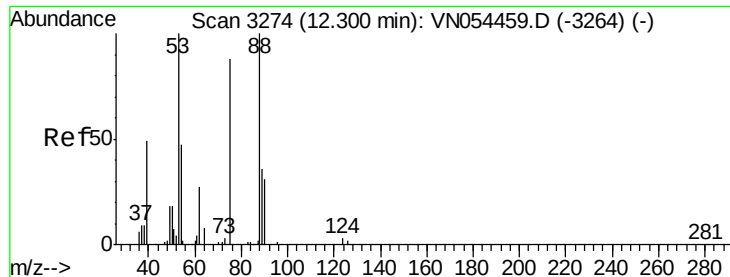
MMDadoda
3/25/2019 9:54:55 AM



#80
1,3,5-Trimethylbenzene
Concen: 20.735 ug/l
RT: 12.73 min Scan# 3408
Delta R.T. -0.00 min
Lab File: VN054649.D
Acq: 24 Mar 2019 15:41

Tgt Ion: 105 Resp: 369539
Ion Ratio Lower Upper
105 100
120 47.6 25.0 75.0





#81

trans-1,4-Dichloro-2-butene

Concen: 15.908 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN054649.D

Acq: 24 Mar 2019 15:41

Instrument :

MSVOA_N

ClientSampleId :

VN0324MBSD01

Tot Ion: 75 Resp: 16892

Ion Ratio Lower Upper

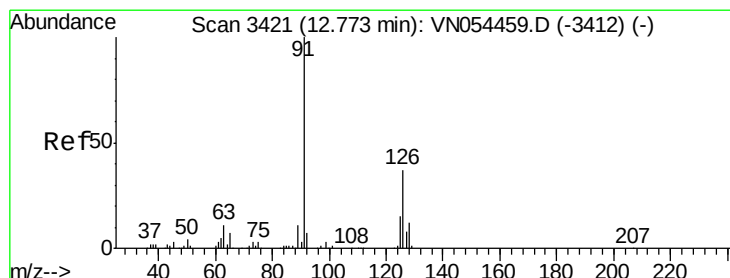
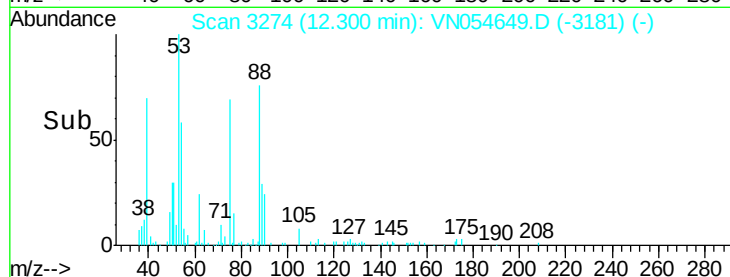
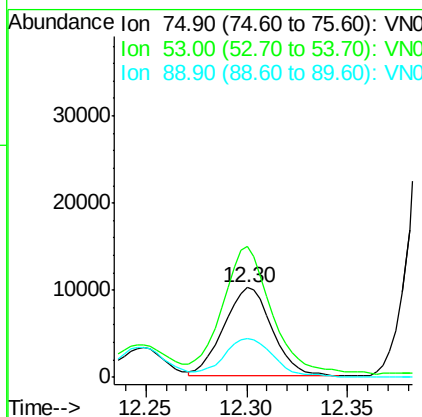
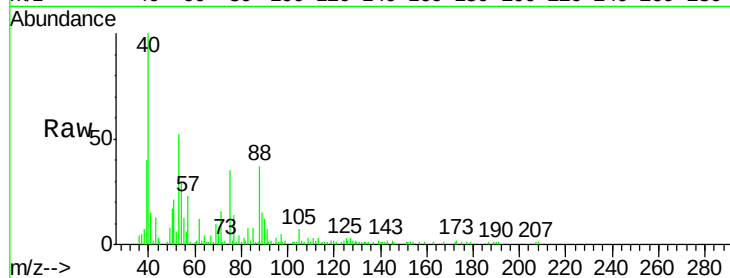
75 100

53 147.2 76.2 114.2#

89 46.1 39.2 58.8

Manual Integrations
APPROVED

MMDadoda
3/25/2019 9:54:55 AM



#82

4-Chlorotoluene

Concen: 20.178 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN054649.D

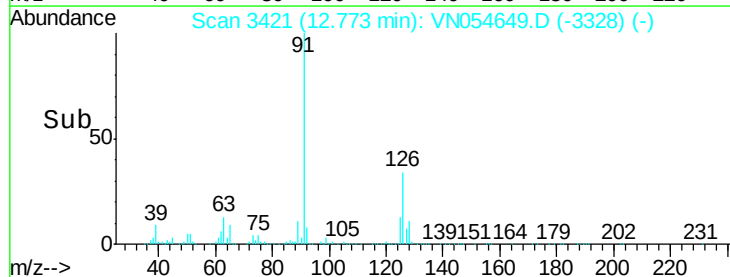
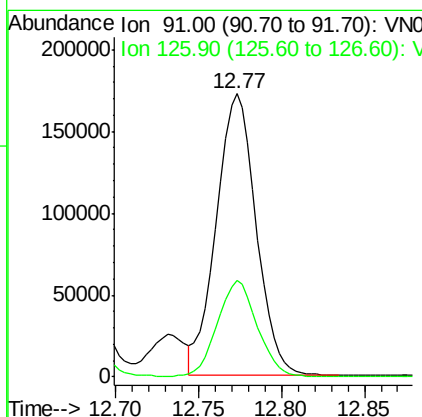
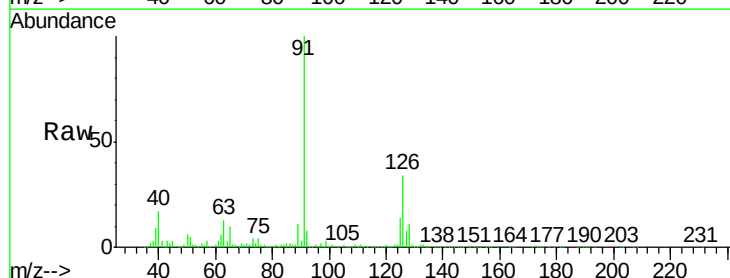
Acq: 24 Mar 2019 15:41

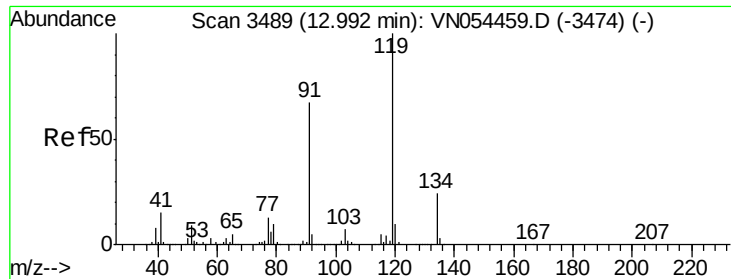
Tgt Ion: 91 Resp: 287597

Ion Ratio Lower Upper

91 100

126 34.2 18.1 54.1





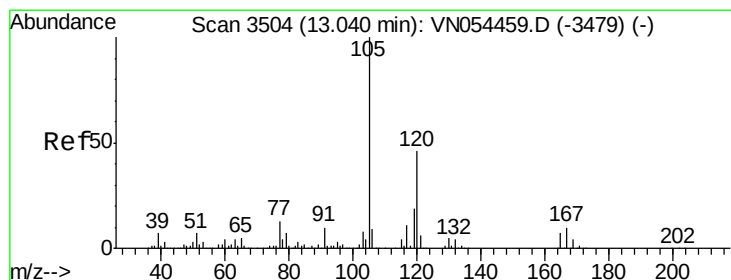
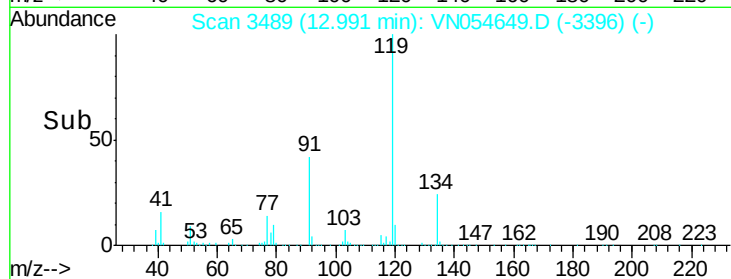
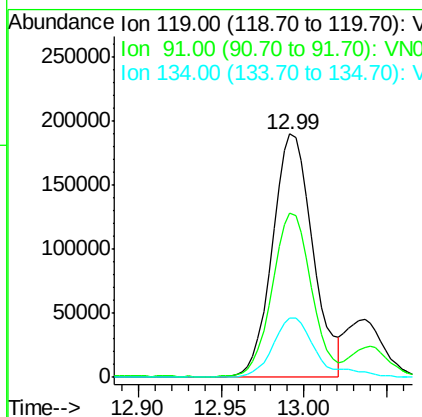
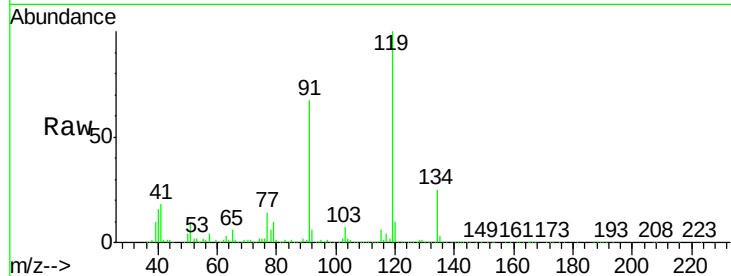
#83
 tert-Butylbenzene
 Concen: 20.724 ug/l
 RT: 12.99 min Scan# 3489
 Delta R.T. -0.00 min
 Lab File: VN054649.D
 Acq: 24 Mar 2019 15:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0324MBSD01

Tot Ion	Ratio	Lower	Upper
119	100		
91	65.1	30.9	92.8
134	26.5	13.2	39.6

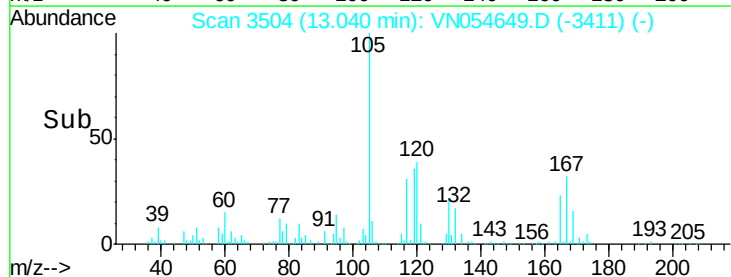
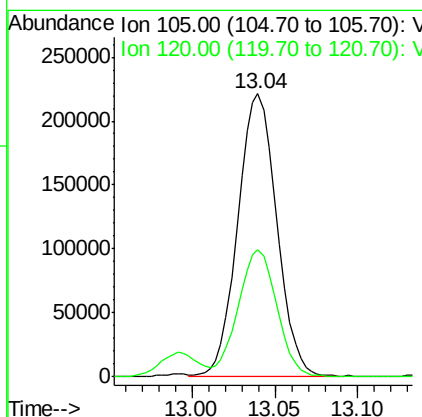
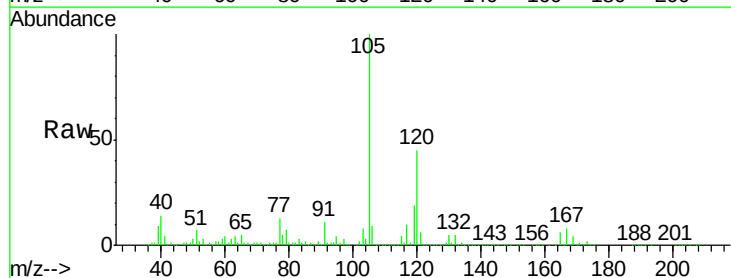
Manual Integrations
 APPROVED

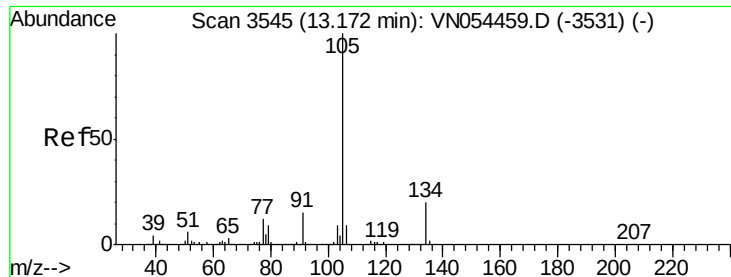
MMDadoda
 3/25/2019 9:54:55 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 20.483 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN054649.D
 Acq: 24 Mar 2019 15:41

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.0	23.4	70.3





#85

sec-Butylbenzene

Concen: 20.543 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN054649.D

Acq: 24 Mar 2019 15:41

Instrument :

MSVOA_N

ClientSampleId :

VN0324MBSD01

Tot Ion:105 Resp: 397275

Ion Ratio Lower Upper

105 100

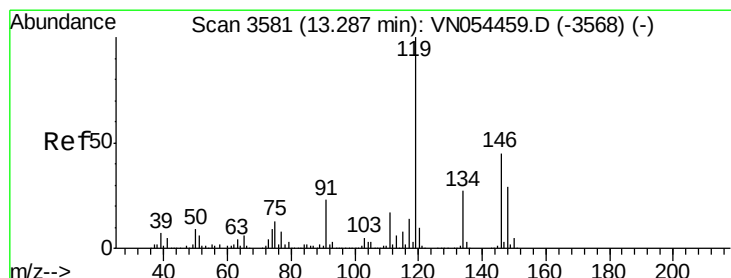
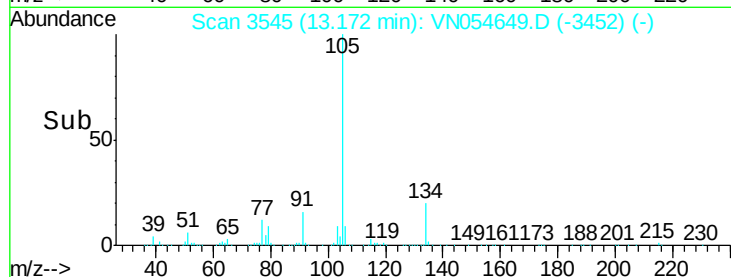
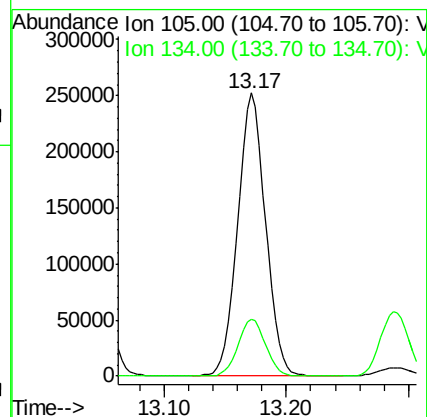
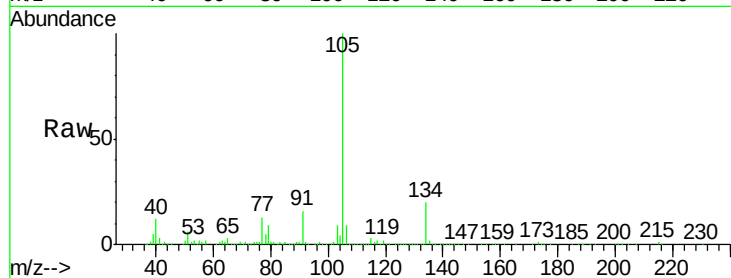
134 20.0 10.7 32.1

Manual Integrations

APPROVED

MMDadoda

3/25/2019 9:54:55 AM



#86

p-Isopropyltoluene

Concen: 20.272 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN054649.D

Acq: 24 Mar 2019 15:41

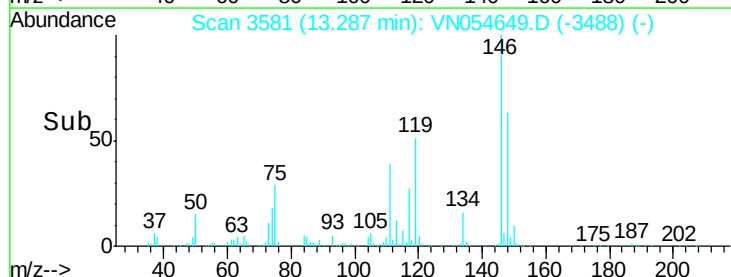
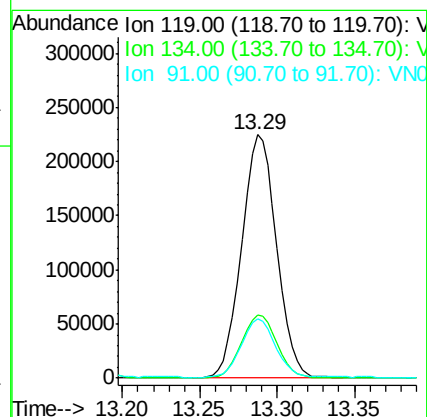
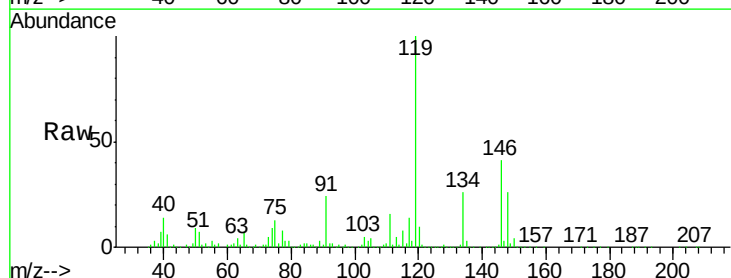
Tgt Ion:119 Resp: 350734

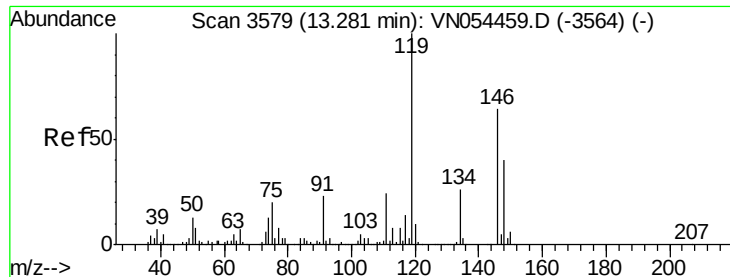
Ion Ratio Lower Upper

119 100

134 26.5 13.6 40.8

91 23.7 11.1 33.3





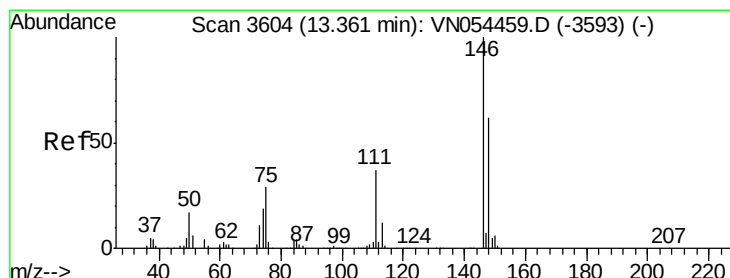
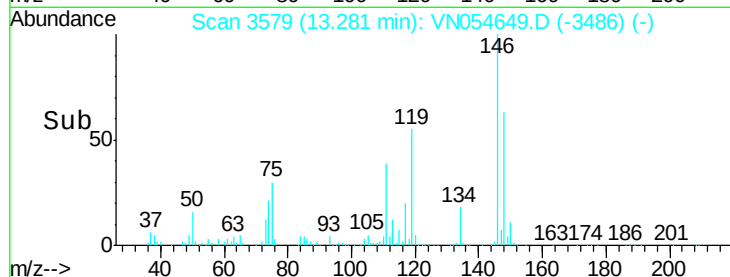
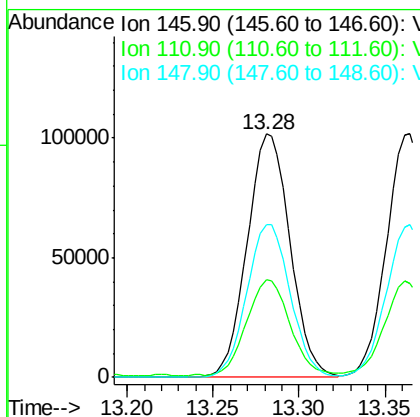
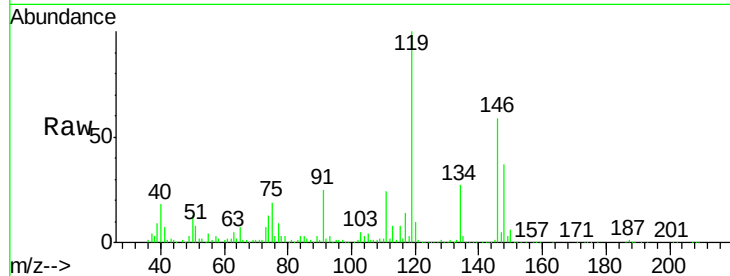
#87
 1,3-Dichlorobenzene
 Concen: 19.725 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN054649.D
 Acq: 24 Mar 2019 15:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0324MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	176287		
111	39.7	18.8	56.3	
148	63.5	32.2	96.6	

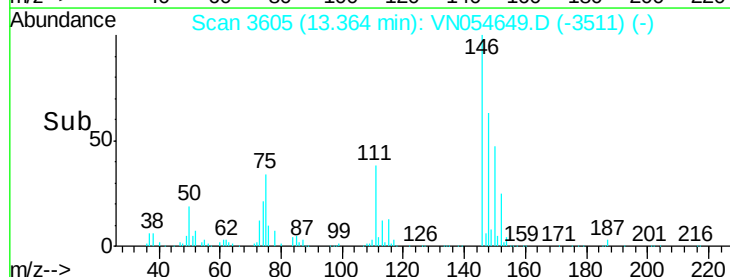
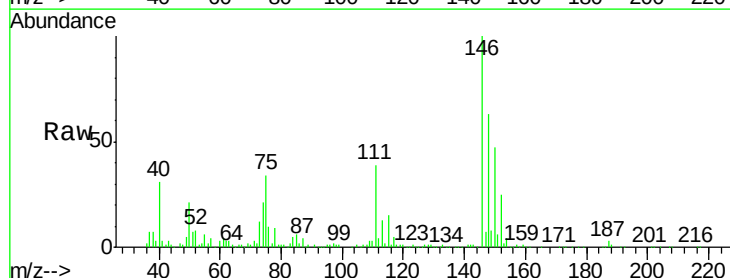
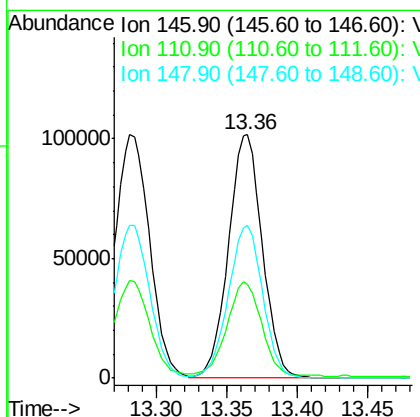
Manual Integrations
 APPROVED

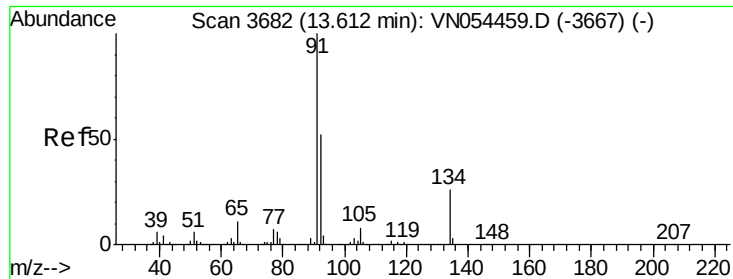
MMDadoda
 3/25/2019 9:54:55 AM



#88
 1,4-Dichlorobenzene
 Concen: 19.633 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN054649.D
 Acq: 24 Mar 2019 15:41

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	170719		
111	39.2	18.1	54.1	
148	63.9	32.0	96.0	





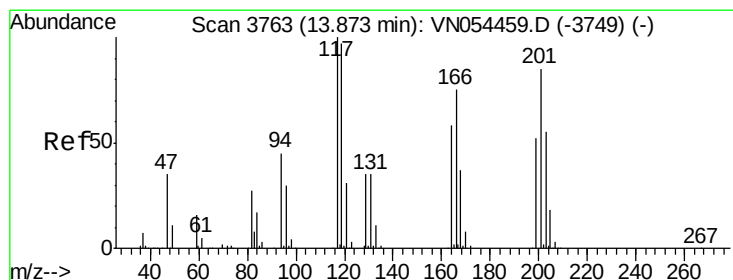
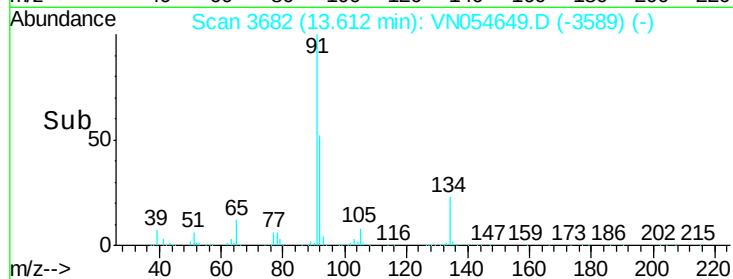
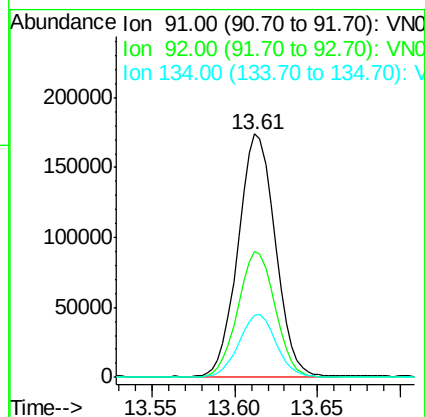
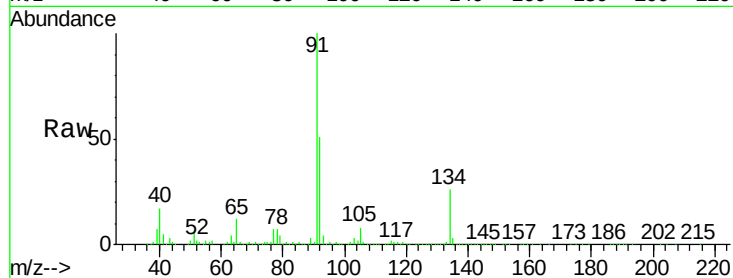
#89
n-Butylbenzene
Concen: 20.014 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN054649.D
Acq: 24 Mar 2019 15:41

Instrument :
MSVOA_N
ClientSampleId :
VN0324MBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.2	26.2	78.6
134	26.7	14.3	42.9

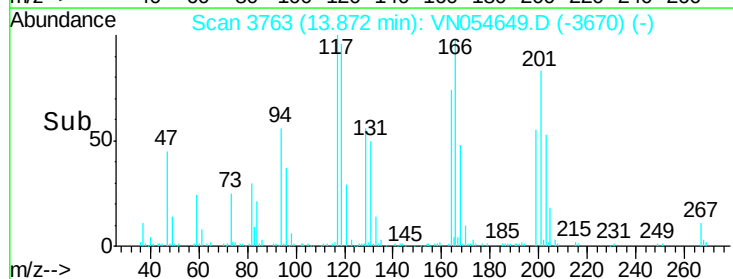
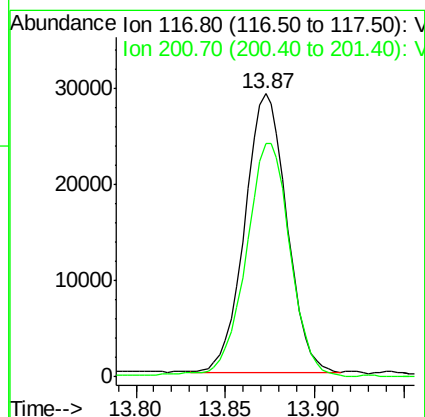
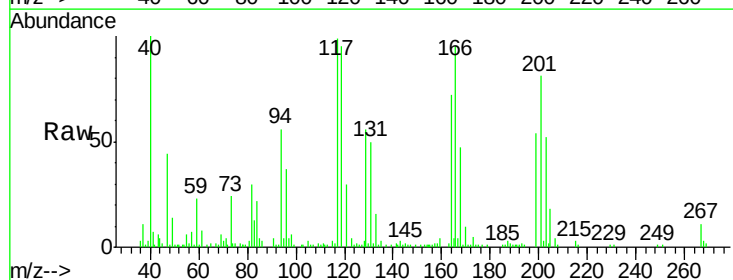
Manual Integrations
APPROVED

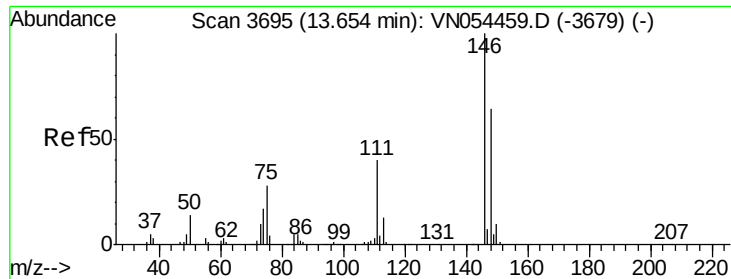
MMDadoda
3/25/2019 9:54:55 AM



#90
Hexachloroethane
Concen: 17.804 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN054649.D
Acq: 24 Mar 2019 15:41

Tgt Ion	Ratio	Lower	Upper
117	100		
201	89.0	48.1	144.4





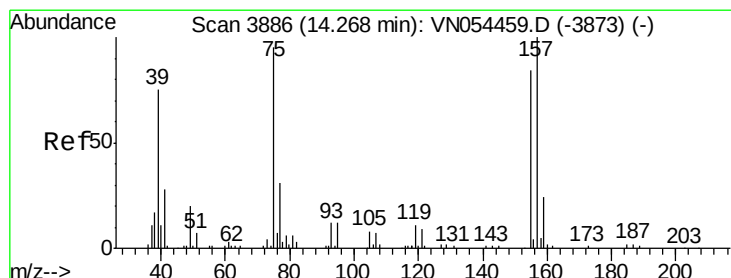
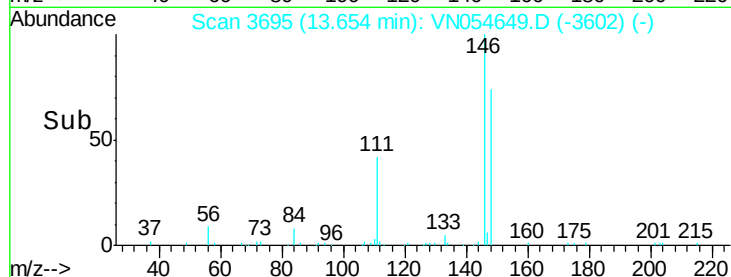
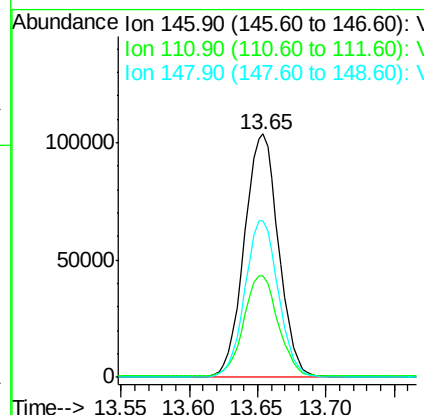
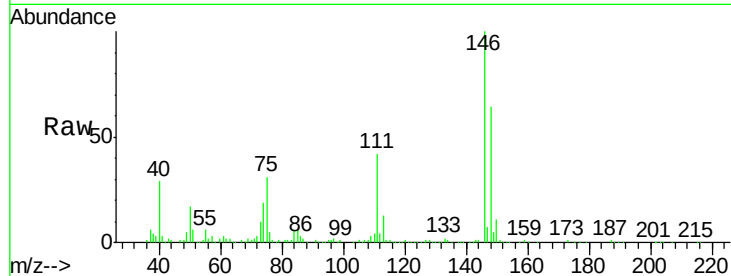
#91
 1,2-Dichlorobenzene
 Concen: 20.919 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. -0.00 min
 Lab File: VN054649.D
 Acq: 24 Mar 2019 15:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0324MBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.4	19.1	57.3
148	63.1	32.4	97.0

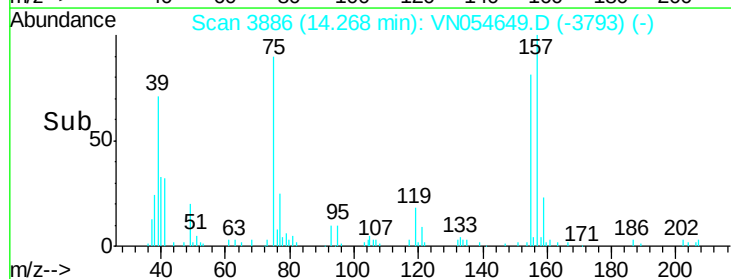
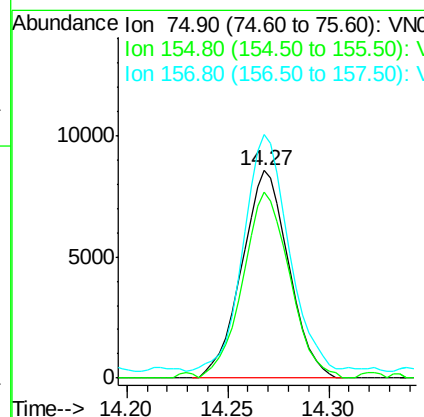
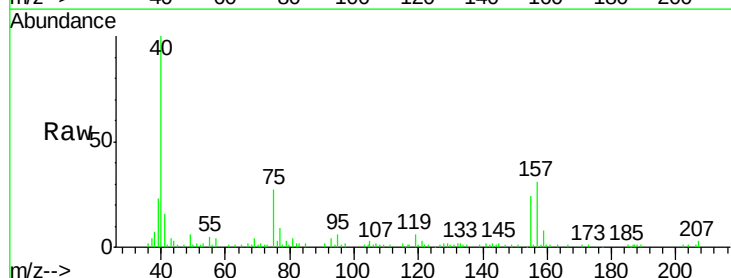
Manual Integrations
 APPROVED

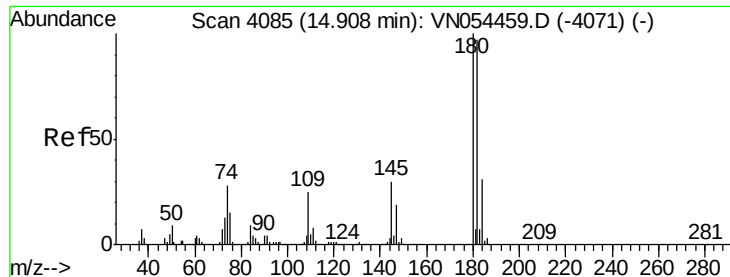
MMDadoda
 3/25/2019 9:54:55 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.121 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN054649.D
 Acq: 24 Mar 2019 15:41

Tgt Ion	Ratio	Lower	Upper
75	100		
155	89.6	50.1	150.3
157	109.6	63.1	189.3





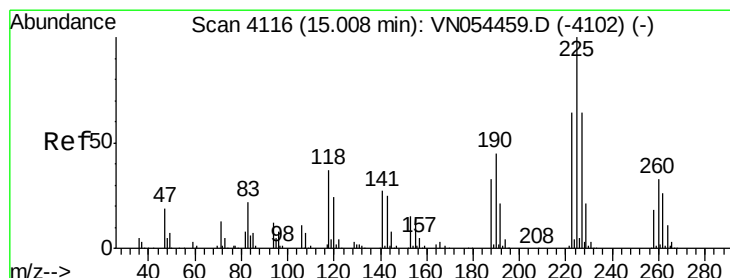
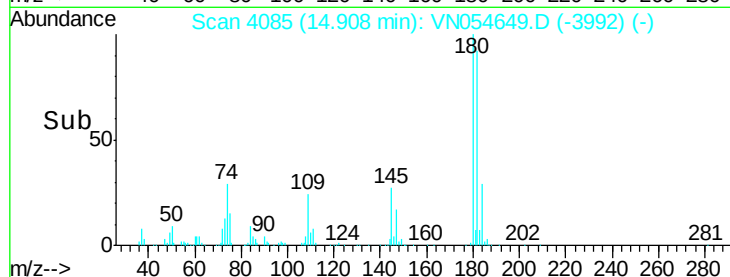
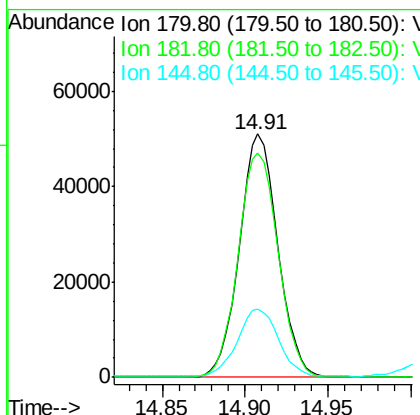
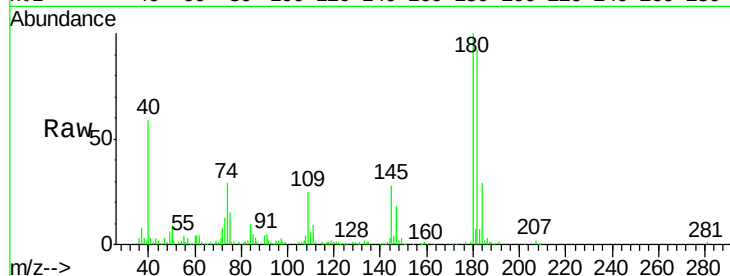
#93
 1,2,4-Trichlorobenzene
 Concen: 19.002 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN054649.D
 Acq: 24 Mar 2019 15:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0324MBSD01

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.4	48.0	144.2
145	29.6	14.2	42.8

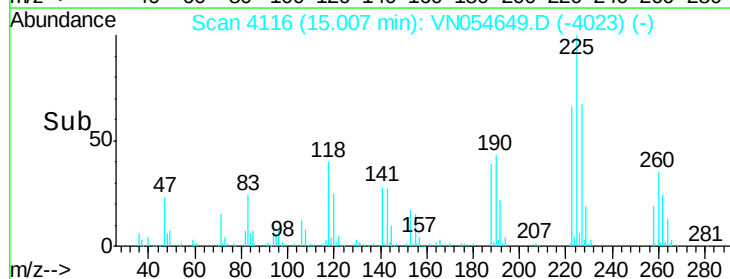
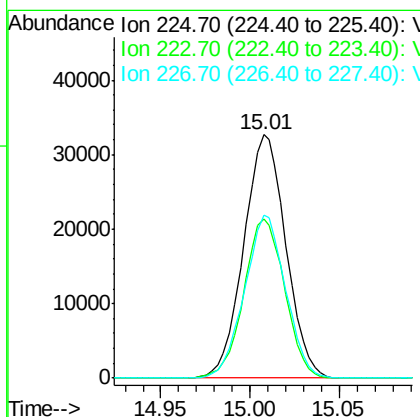
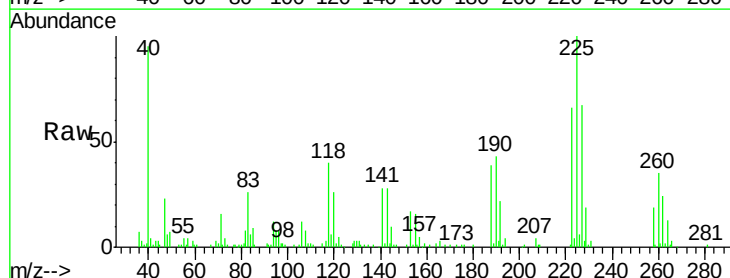
Manual Integrations
 APPROVED

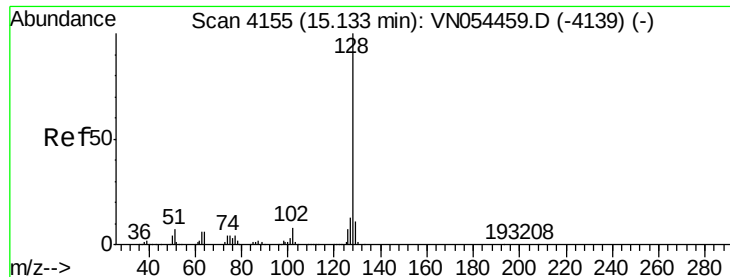
MMDadoda
 3/25/2019 9:54:55 AM



#94
 Hexachlorobutadiene
 Concen: 20.818 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN054649.D
 Acq: 24 Mar 2019 15:41

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.5	31.1	93.5
227	65.1	31.9	95.9





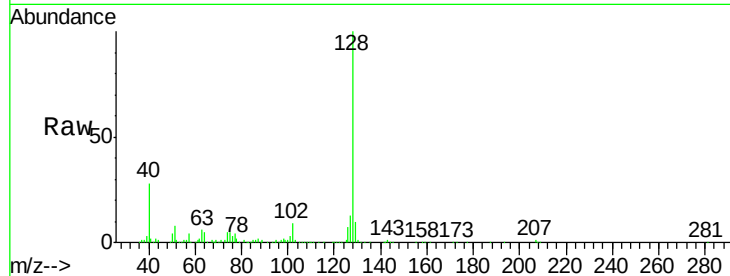
#95
Naphthalene
Concen: 19.267 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN054649.D
Acq: 24 Mar 2019 15:41

Instrument :
MSVOA_N
ClientSampleId :
VN0324MBSD01

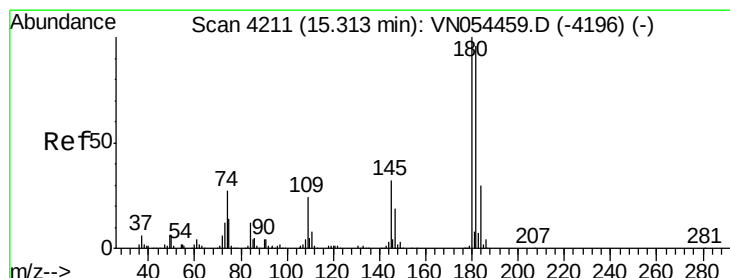
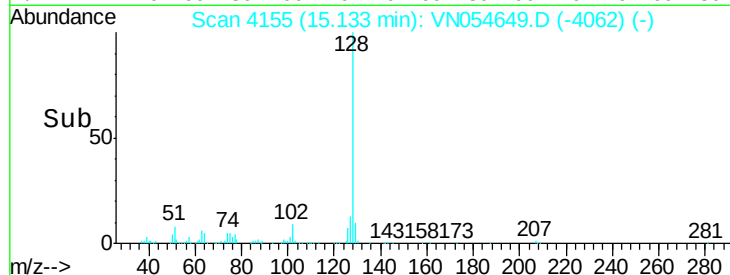
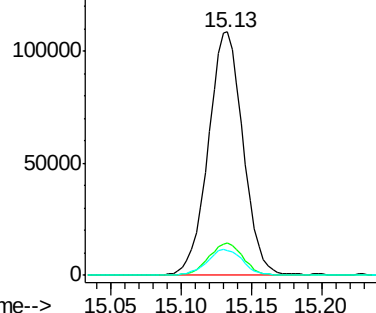
Tot Ion	Ratio	Resp	Lower	Upper
128	100	185450		
127	13.5	10.1	15.1	
129	10.5	8.7	13.1	

Manual Integrations
APPROVED

MMDadoda
3/25/2019 9:54:55 AM

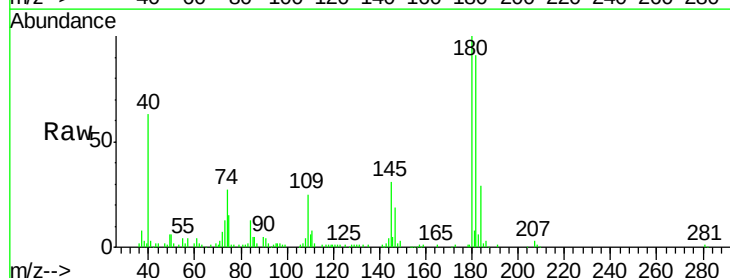


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 19.981 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN054649.D
Acq: 24 Mar 2019 15:41

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	85819		
182	92.1	47.5	142.6	
145	30.0	14.8	44.3	



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

