

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031319\
 Data File : VN054203.D
 Acq On : 13 Mar 2019 9:47
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 3/14/2019 10:26:58 AM

Quant Time: Mar 14 05:57:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	1571850	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	2266746	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2021335	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	1027130	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	788483	47.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.46%	
35) Dibromofluoromethane	7.59	113	717370	49.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.14%	
50) Toluene-d8	10.09	98	2664950	49.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.72%	
62) 4-Bromofluorobenzene	12.40	95	967764	51.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.46%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	750801	50.399	ug/l	98
3) Chloromethane	2.06	50	636918	44.014	ug/l	98
4) Vinyl Chloride	2.19	62	757052	45.772	ug/l	99
5) Bromomethane	2.57	94	504968	44.082	ug/l	97
6) Chloroethane	2.71	64	446263	44.594	ug/l	98
7) Trichlorofluoromethane	3.02	101	1015557	46.183	ug/l	100
8) Diethyl Ether	3.41	74	491478	49.046	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.75	101	853040	51.767	ug/l	99
10) Methyl Iodide	3.94	142	1046471	44.876	ug/l	99
11) Tert butyl alcohol	4.82	59	259712	226.945	ug/l	99
12) 1,1-Dichloroethene	3.73	96	806025	49.359	ug/l	99
13) Acrolein	3.60	56	263213	242.726	ug/l	99
14) Allyl chloride	4.31	41	1015758	48.481	ug/l	99
15) Acrylonitrile	4.99	53	1152093	245.085	ug/l	100
16) Acetone	3.82	43	1196088	250.248	ug/l	99
17) Carbon Disulfide	4.04	76	1959666	47.871	ug/l	100
18) Methyl Acetate	4.33	43	492388	50.919	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	1992208	49.219	ug/l	100
20) Methylene Chloride	4.54	84	751316	47.873	ug/l	98
21) trans-1,2-Dichloroethene	5.03	96	767213	49.035	ug/l	99
22) Diisopropyl ether	5.96	45	2069541	49.492	ug/l	98
23) Vinyl Acetate	5.90	43	7716883	250.295	ug/l	100
24) 1,1-Dichloroethane	5.85	63	1288913	48.006	ug/l	99
25) 2-Butanone	6.84	43	1453390	259.080	ug/l	99
26) 2,2-Dichloropropane	6.82	77	1164579	49.323	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	862098	49.390	ug/l	99
28) Bromochloromethane	7.19	49	520512	47.422	ug/l	99
29) Tetrahydrofuran	7.22	42	862348	239.083	ug/l	99
30) Chloroform	7.37	83	1381214	49.299	ug/l	99
31) Cyclohexane	7.65	56	1218922	48.523	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	1232619	48.714	ug/l	100
36) 1,1-Dichloropropene	7.79	75	1084091	51.933	ug/l	100
37) Ethyl Acetate	6.94	43	605391	50.473	ug/l	100
38) Carbon Tetrachloride	7.77	117	1102503	50.363	ug/l	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031319\
 Data File : VN054203.D
 Acq On : 13 Mar 2019 9:47
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 3/14/2019 10:26:58 AM

Quant Time: Mar 14 05:57:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	1376403	53.590	ug/l	100
40) Benzene	8.04	78	3054587	51.135	ug/l	99
41) Methacrylonitrile	7.17	41	326080	47.614	ug/l	95
42) 1,2-Dichloroethane	8.12	62	1023831	50.766	ug/l	100
43) Isopropyl Acetate	8.17	43	1055139	50.117	ug/l	99
44) Trichloroethene	8.83	130	959029	51.681	ug/l	99
45) 1,2-Dichloropropane	9.12	63	762266	51.390	ug/l	100
46) Dibromomethane	9.21	93	510869	50.975	ug/l	100
47) Bromodichloromethane	9.40	83	1038943	51.711	ug/l	98
48) Methyl methacrylate	9.20	41	567970	53.159	ug/l	99
49) 1,4-Dioxane	9.20	88	148307	981.333	ug/l	98
51) 4-Methyl-2-Pentanone	9.99	43	2957037	265.404	ug/l	100
52) Toluene	10.16	92	1969766	52.005	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	1087279	47.422	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	1231500	52.600	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	712028	51.484	ug/l	99
56) Ethyl methacrylate	10.43	69	883531	53.578	ug/l	99
57) 1,3-Dichloropropane	10.71	76	1157562	51.188	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	1681139	235.994	ug/l	100
59) 2-Hexanone	10.75	43	2004410	270.369	ug/l	100
60) Dibromochloromethane	10.90	129	811349	52.121	ug/l	99
61) 1,2-Dibromoethane	11.01	107	729855	51.931	ug/l	100
64) Tetrachloroethene	10.63	164	945021	48.355	ug/l	99
65) Chlorobenzene	11.43	112	2282715	51.432	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	830582	51.515	ug/l	99
67) Ethyl Benzene	11.51	91	3786648	51.468	ug/l	100
68) m/p-Xylenes	11.62	106	3002819	104.426	ug/l	100
69) o-Xylene	11.95	106	1444829	51.542	ug/l	99
70) Styrene	11.96	104	2349060	53.432	ug/l	100
71) Bromoform	12.13	173	553021	45.231	ug/l #	100
73) Isopropylbenzene	12.25	105	3886740	47.297	ug/l	100
74) N-amyl acetate	12.07	43	911498	49.971	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	834346	47.655	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	684995m	45.351	ug/l	
77) Bromobenzene	12.53	156	1043155	47.972	ug/l	98
78) n-propylbenzene	12.59	91	4395523	49.295	ug/l	100
79) 2-Chlorotoluene	12.67	91	2570952	47.953	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	3272679	47.878	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	206027	46.628	ug/l	96
82) 4-Chlorotoluene	12.77	91	2637655	49.270	ug/l	99
83) tert-Butylbenzene	12.99	119	2963568	47.104	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	3289722	49.058	ug/l	100
85) sec-Butylbenzene	13.17	105	3963178	48.573	ug/l	100
86) p-Isopropyltoluene	13.29	119	3562782	49.772	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	1868762	51.001	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	1824267	50.681	ug/l	99
89) n-Butylbenzene	13.61	91	2976765	54.732	ug/l	100
90) Hexachloroethane	13.88	117	549091	46.326	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	1789861	49.968	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	125965	46.494	ug/l	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031319\
Data File : VN054203.D
Acq On : 13 Mar 2019 9:47
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

MMDadoda
3/14/2019 10:26:58 AM

Quant Time: Mar 14 05:57:46 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 13 03:33:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	1078411	49.874	ug/l	100
94) Hexachlorobutadiene	15.01	225	674015	49.400	ug/l	99
95) Naphthalene	15.13	128	2062936	46.084	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	1033477	54.302	ug/l	99

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

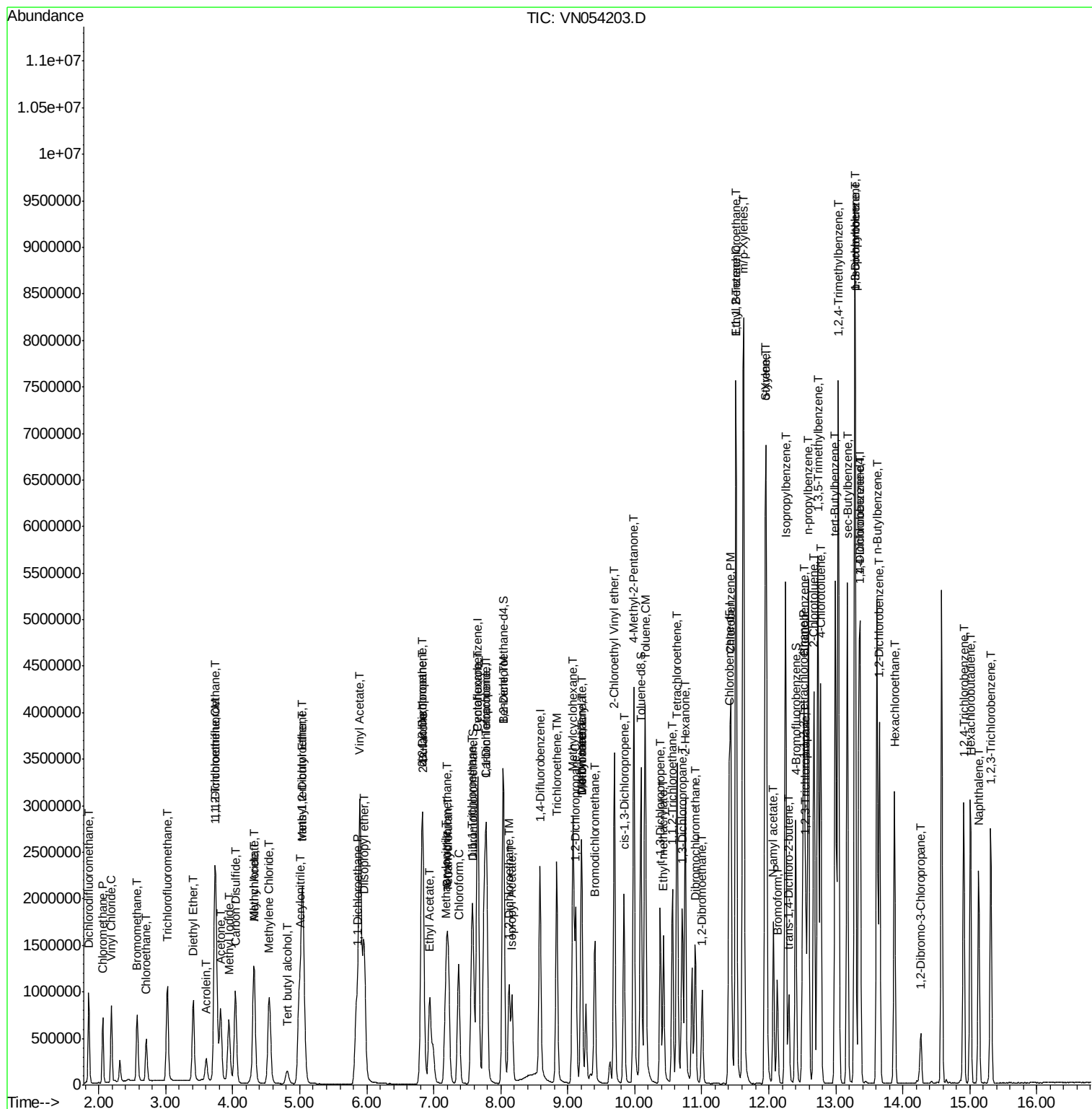
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031319\
 Data File : VN054203.D
 Acq On : 13 Mar 2019 9:47
 Operator : JC/SP
 Sample : VSTDC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

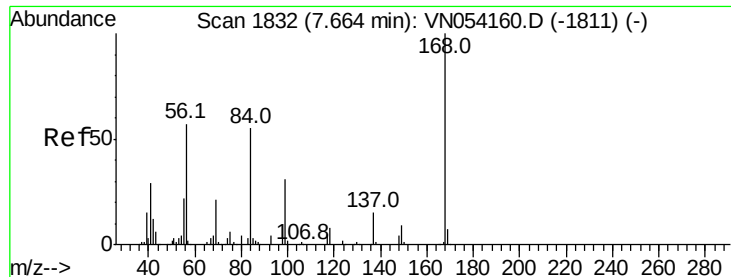
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDC050

Manual Integrations
 APPROVED

MMDadoda
 3/14/2019 10:26:58 AM

Quant Time: Mar 14 05:57:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 1571850

Ion Ratio Lower Upper

168 100

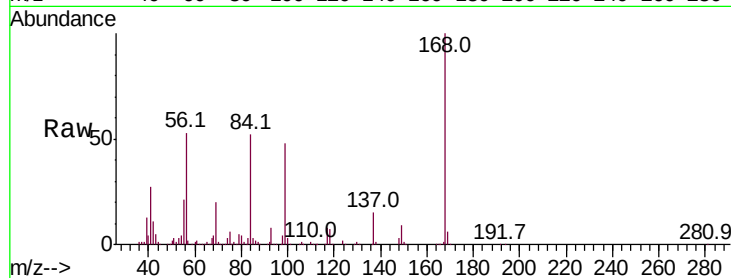
99 47.7 37.1 55.7

Manual Integrations

APPROVED

MMDadoda

3/14/2019 10:26:58 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

600000

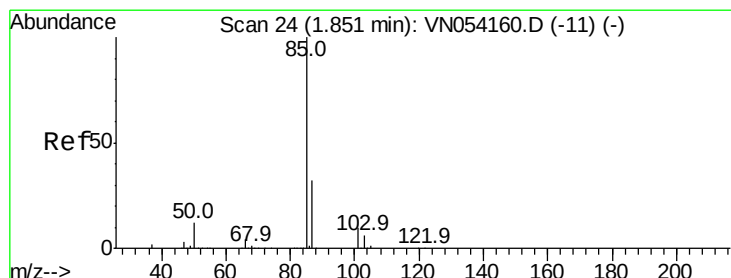
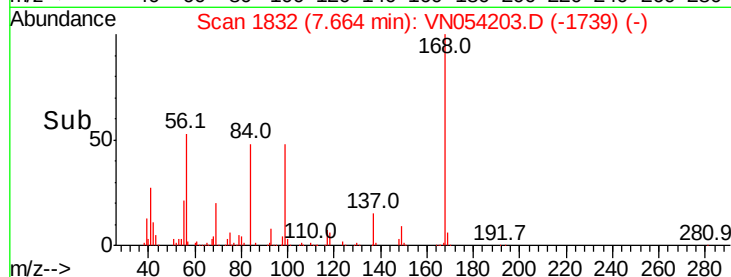
400000

200000

0

7.50 7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 50.399 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN054203.D

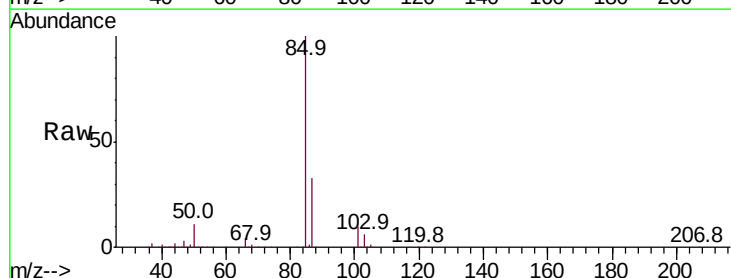
Acq: 13 Mar 2019 9:47

Tgt Ion: 85 Resp: 750801

Ion Ratio Lower Upper

85 100

87 32.7 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

600000

500000

400000

300000

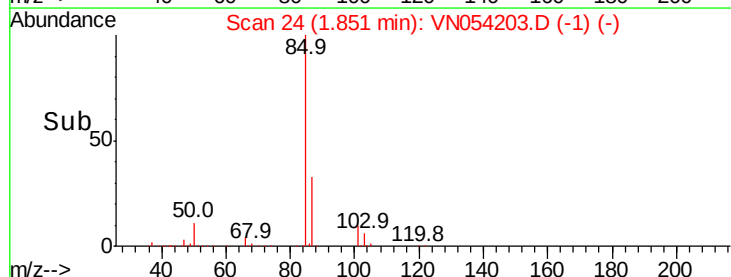
200000

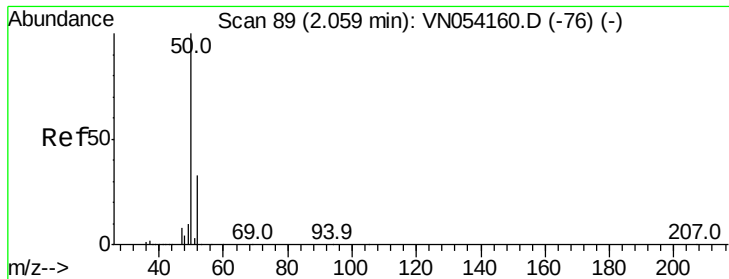
100000

0

1.80 1.90 2.00

Time-->





#3

Chloromethane

Concen: 44.014 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 636918

Ion Ratio Lower Upper

50 100

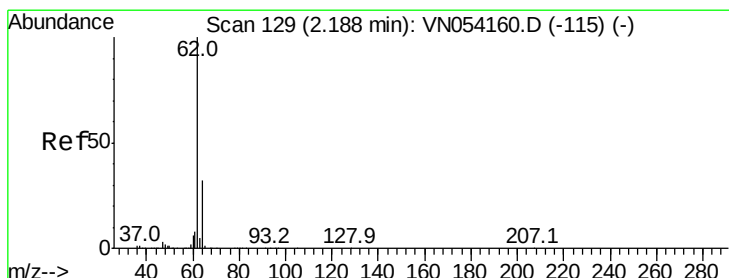
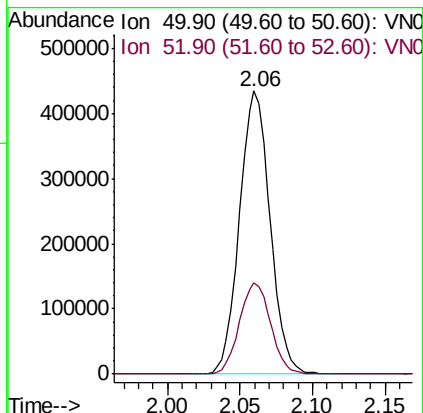
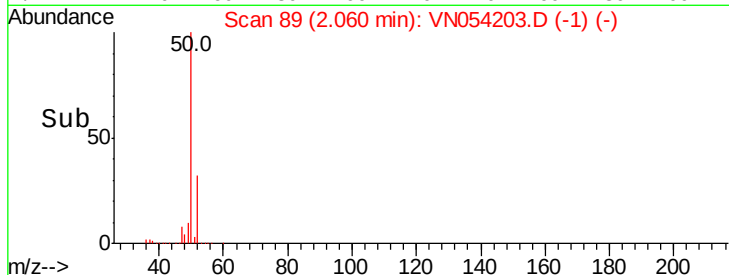
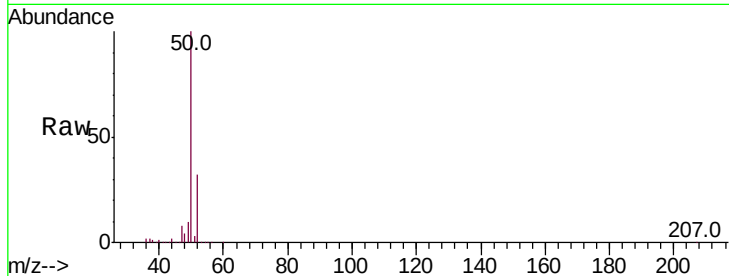
52 32.1 26.4 39.6

Manual Integrations

APPROVED

MMDadoda

3/14/2019 10:26:58 AM



#4

Vinyl Chloride

Concen: 45.772 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN054203.D

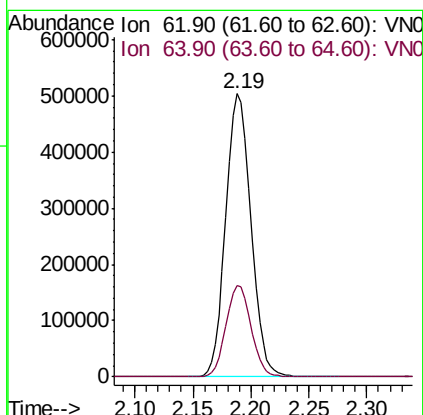
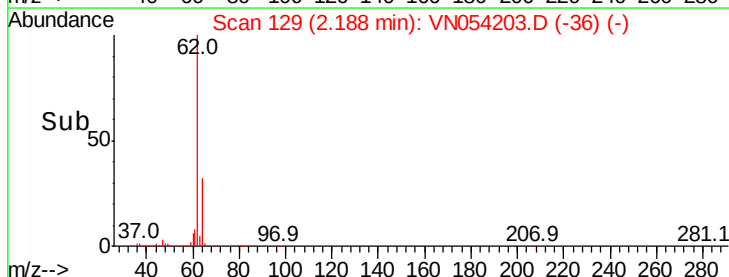
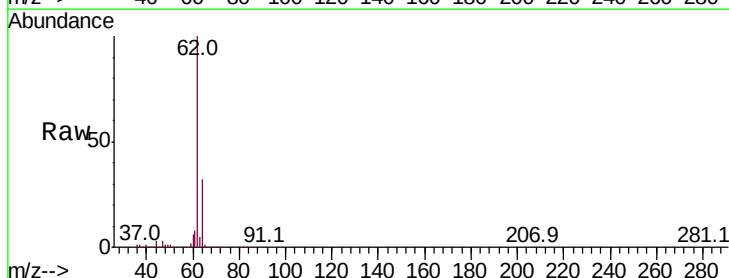
Acq: 13 Mar 2019 9:47

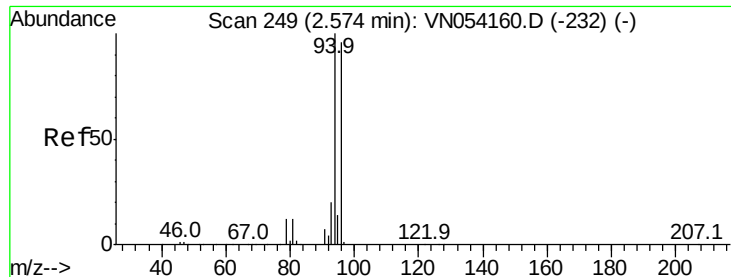
Tgt Ion: 62 Resp: 757052

Ion Ratio Lower Upper

62 100

64 32.3 25.5 38.3





#5

Bromomethane

Concen: 44.082 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 504968

Ion Ratio Lower Upper

94 100

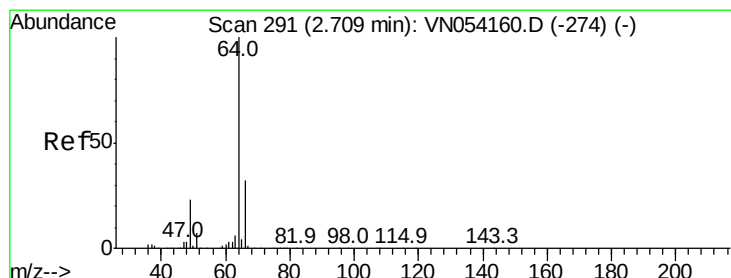
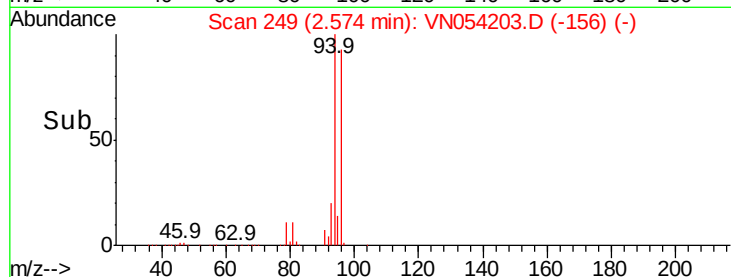
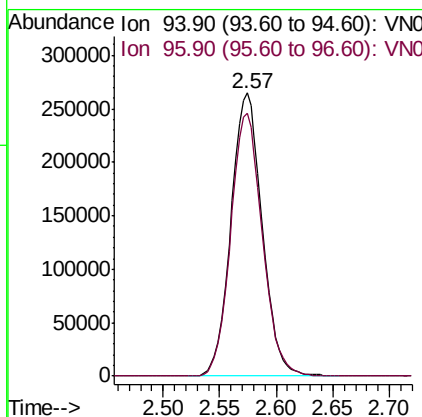
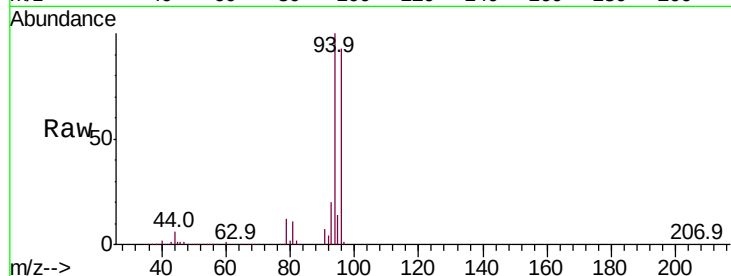
96 92.8 77.0 115.4

Manual Integrations

APPROVED

MMDadoda

3/14/2019 10:26:58 AM



#6

Chloroethane

Concen: 44.594 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN054203.D

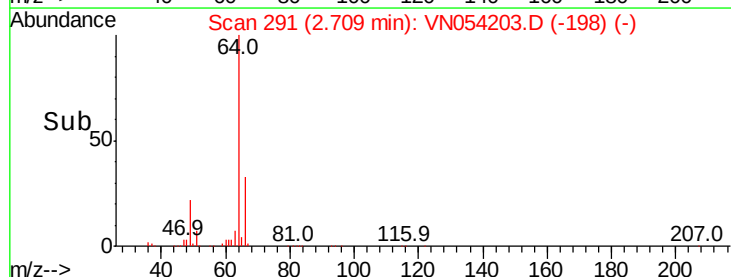
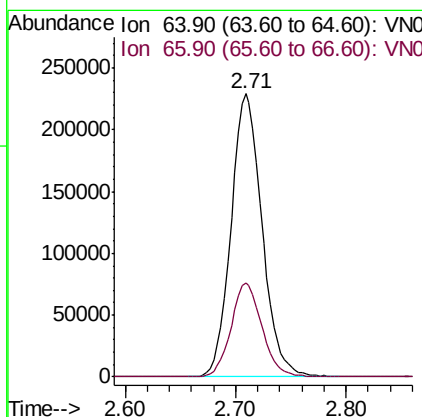
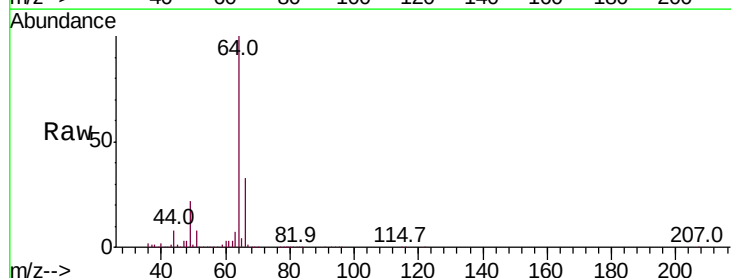
Acq: 13 Mar 2019 9:47

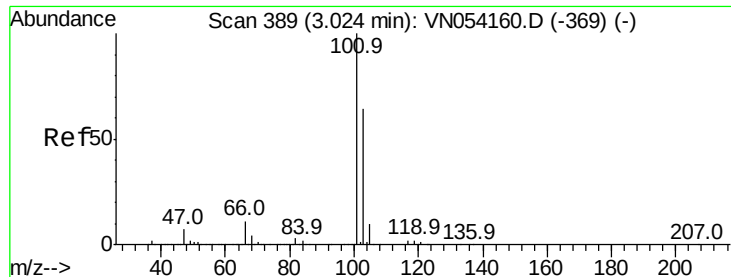
Tgt Ion: 64 Resp: 446263

Ion Ratio Lower Upper

64 100

66 33.4 25.7 38.5





#7

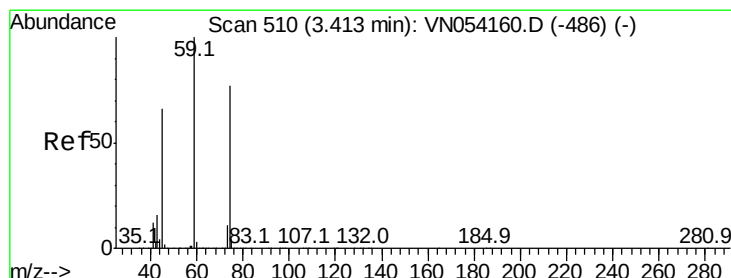
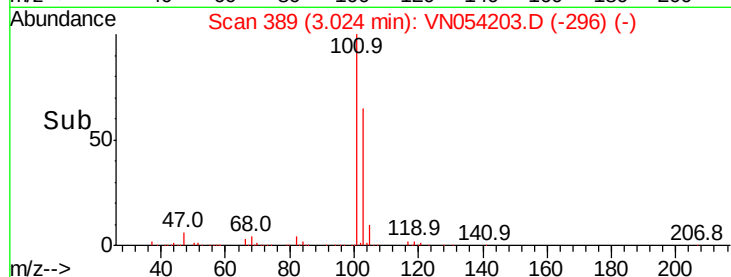
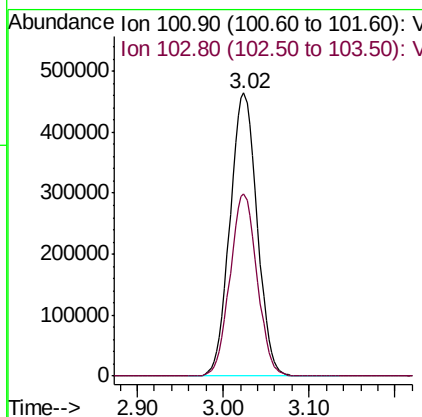
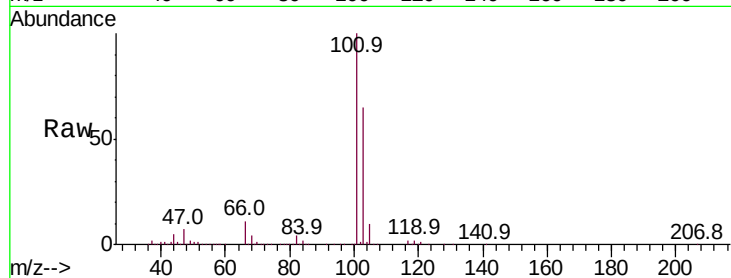
Trichlorofluoromethane
Concen: 46.183 ug/l
RT: 3.02 min Scan# 389
Delta R.T. 0.00 min
Lab File: VN054203.D
Acq: 13 Mar 2019 9:47

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion:101 Resp: 1015557
Ion Ratio Lower Upper
101 100
103 64.5 51.4 77.2

Manual Integrations
APPROVED

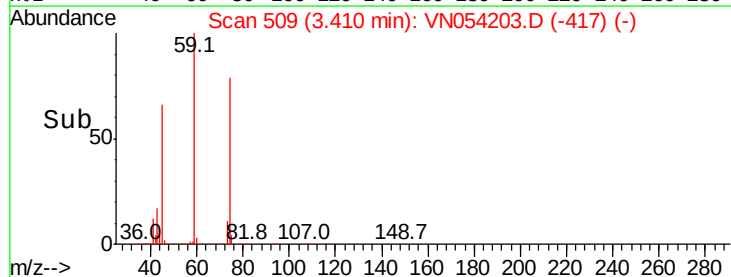
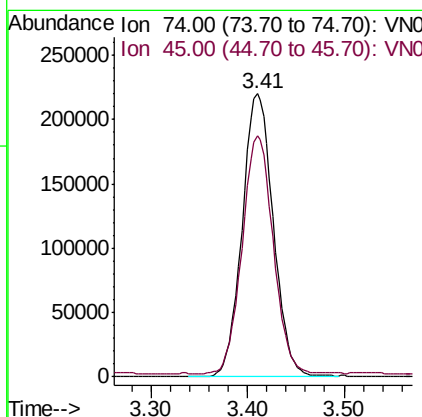
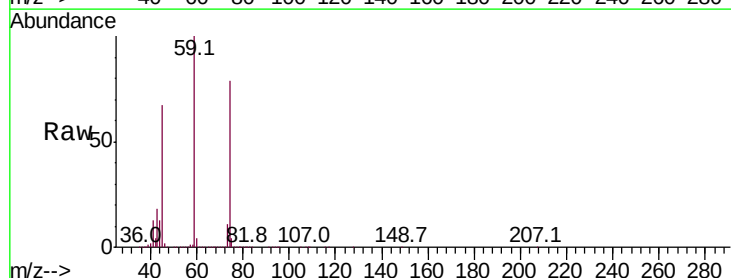
MMDadoda
3/14/2019 10:26:58 AM

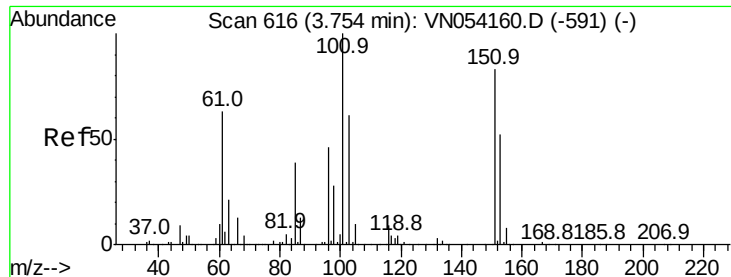


#8

Diethyl Ether
Concen: 49.046 ug/l
RT: 3.41 min Scan# 509
Delta R.T. -0.00 min
Lab File: VN054203.D
Acq: 13 Mar 2019 9:47

Tgt Ion: 74 Resp: 491478
Ion Ratio Lower Upper
74 100
45 84.2 43.1 129.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 51.767 ug/l

RT: 3.75 min Scan# 615

Delta R.T. -0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

Instrument :

MSVOA_N

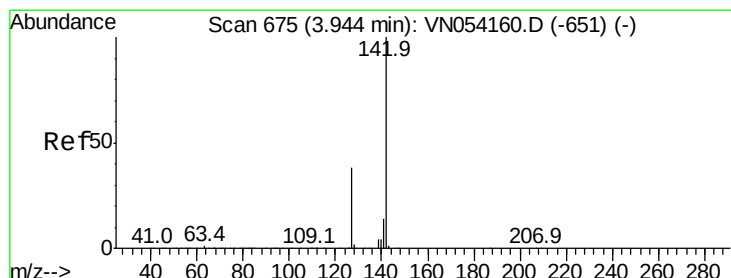
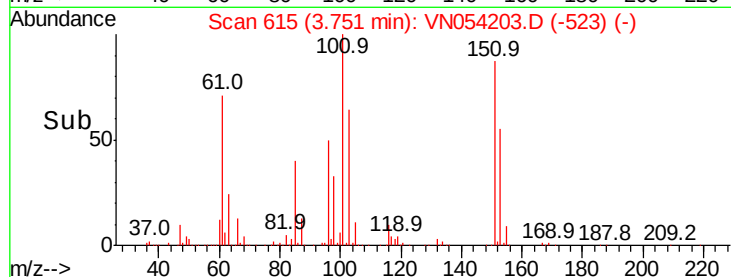
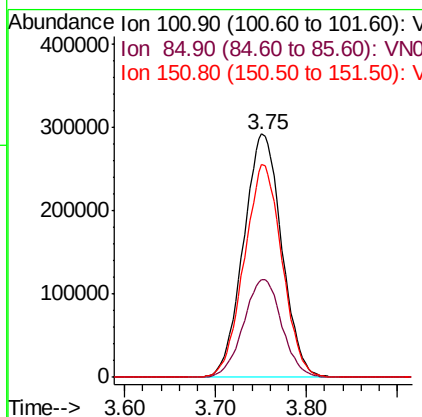
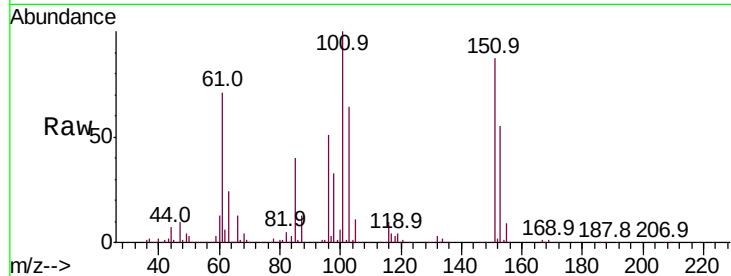
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	853040
Ion Ratio	Lower	Upper	
101	100		
85	40.3	32.4	48.6
151	86.6	68.2	102.2

Manual Integrations
APPROVED

MMDadoda
3/14/2019 10:26:58 AM



#10

Methyl Iodide

Concen: 44.876 ug/l

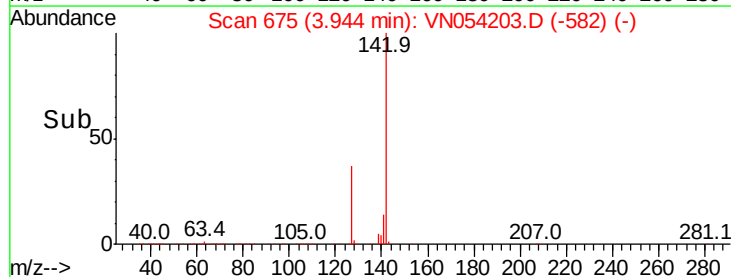
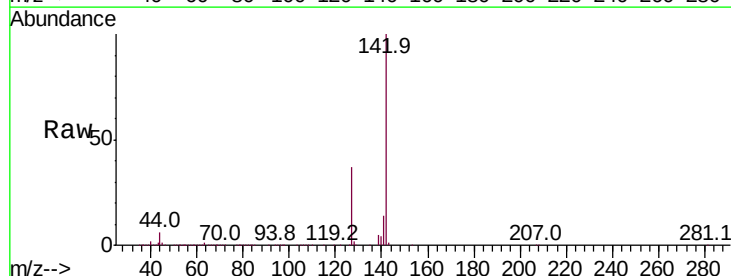
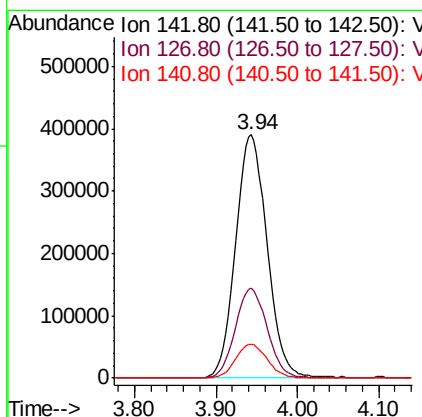
RT: 3.94 min Scan# 675

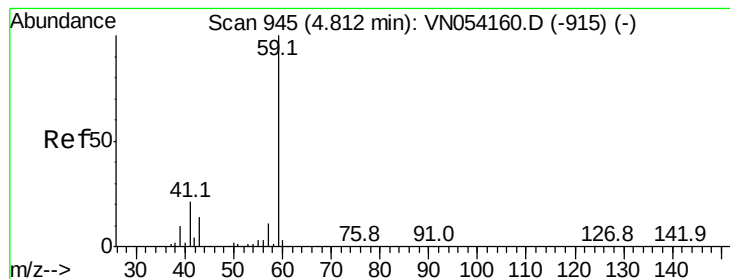
Delta R.T. 0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

Tgt Ion:	142	Resp:	1046471
Ion Ratio	Lower	Upper	
142	100		
127	37.4	30.3	45.5
141	14.1	11.2	16.8





#11

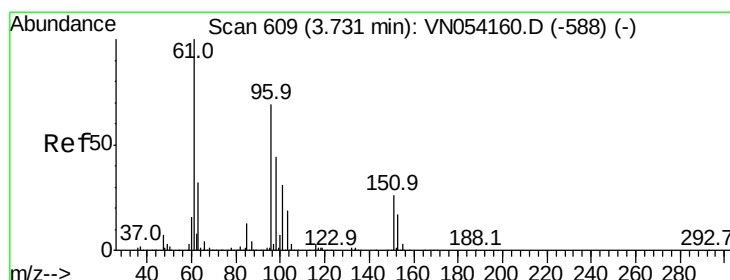
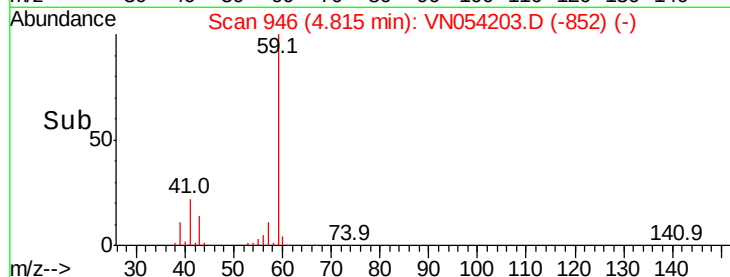
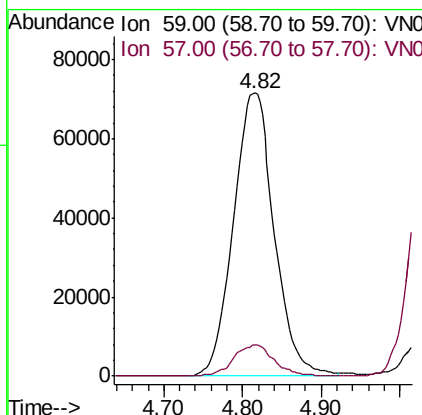
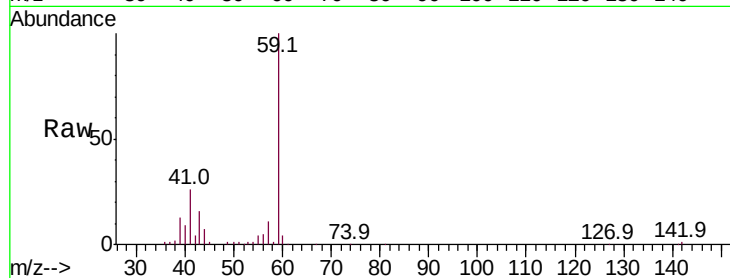
Tert butyl alcohol
Concen: 226.945 ug/l
RT: 4.82 min Scan# 946
Delta R.T. 0.00 min
Lab File: VN054203.D
Acq: 13 Mar 2019 9:47

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.9	9.0	13.6

Manual Integrations
APPROVED

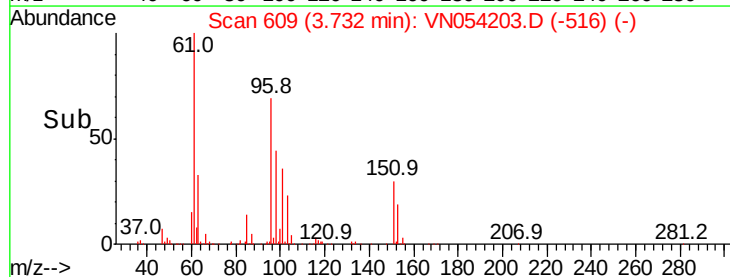
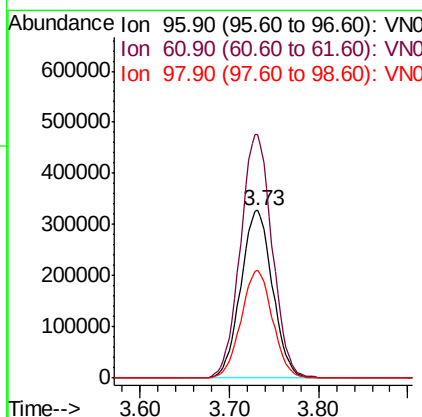
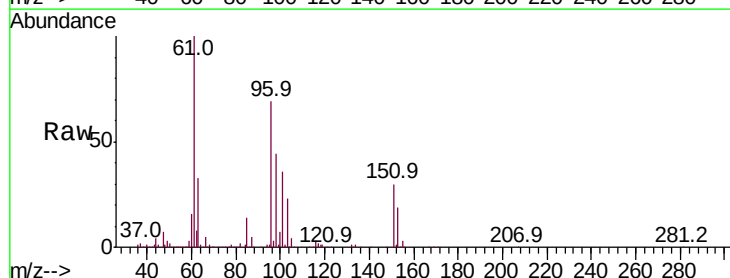
MMDadoda
3/14/2019 10:26:58 AM

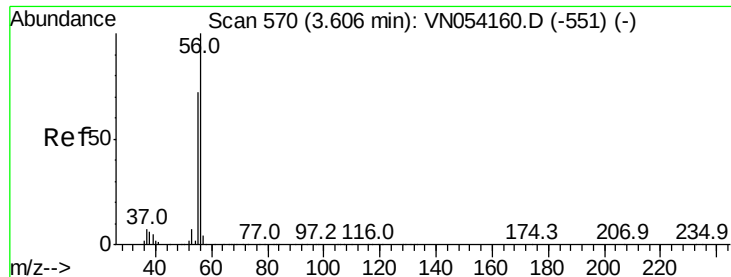


#12

1,1-Dichloroethene
Concen: 49.359 ug/l
RT: 3.73 min Scan# 609
Delta R.T. 0.00 min
Lab File: VN054203.D
Acq: 13 Mar 2019 9:47

Tgt Ion	Ratio	Lower	Upper
96	100		
61	145.0	116.5	174.7
98	64.4	51.0	76.4





#13

Acrolein

Concen: 242.726 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 263213

Ion Ratio Lower Upper

56 100

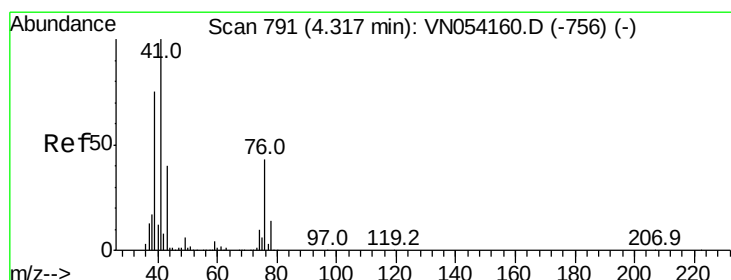
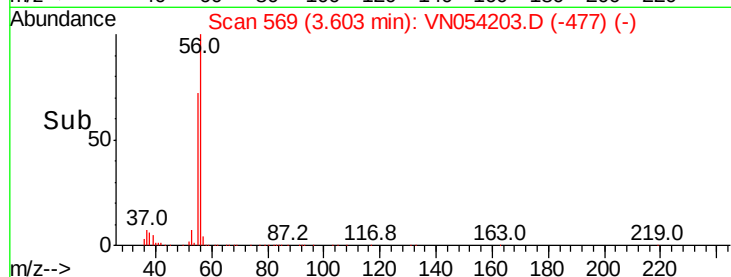
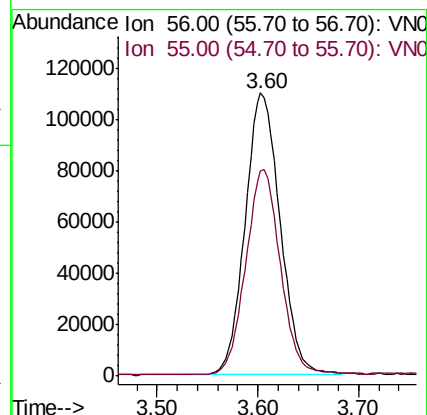
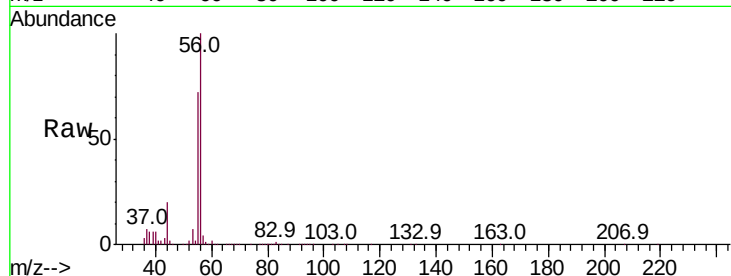
55 71.9 56.7 85.1

Manual Integrations

APPROVED

MMDadoda

3/14/2019 10:26:58 AM



#14

Allyl chloride

Concen: 48.481 ug/l

RT: 4.31 min Scan# 790

Delta R.T. -0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

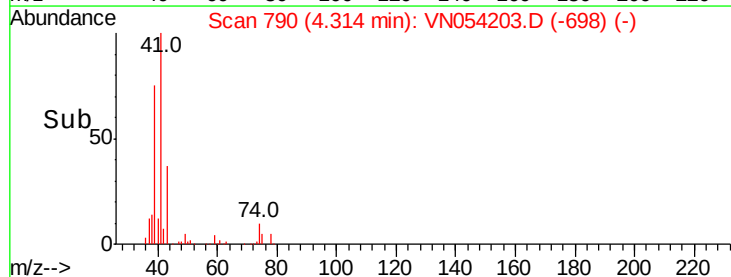
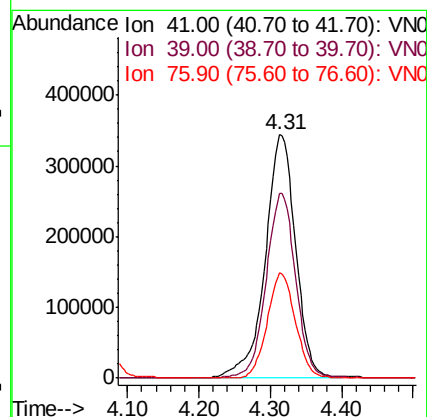
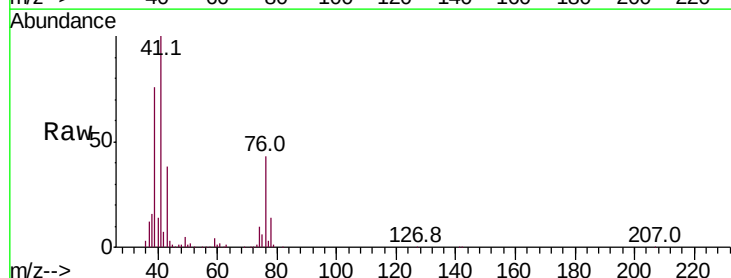
Tgt Ion: 41 Resp: 1015758

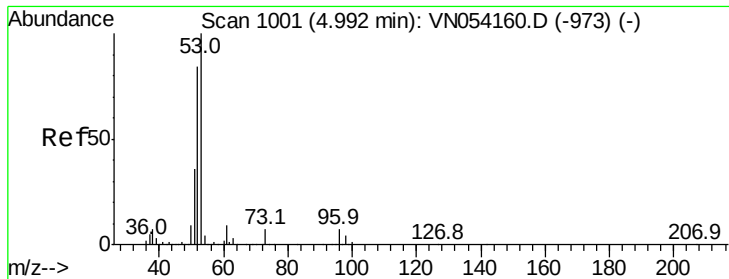
Ion Ratio Lower Upper

41 100

39 73.5 58.2 87.4

76 39.9 31.7 47.5





#15

Acrylonitrile

Concen: 245.085 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 53 Resp: 1152093

Ion Ratio Lower Upper

53 100

52 83.5 66.4 99.6

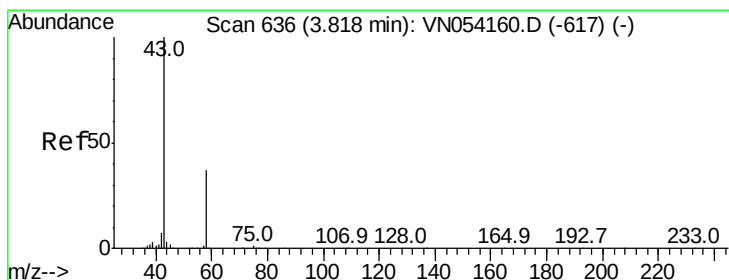
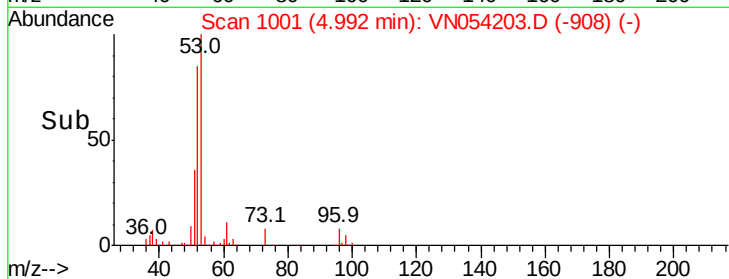
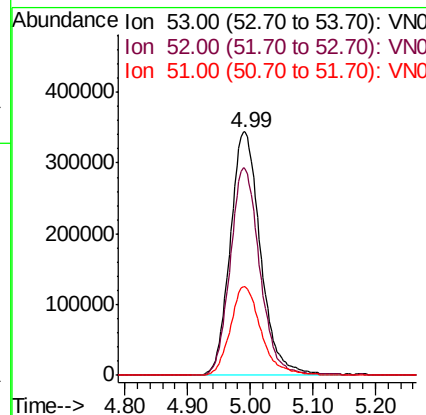
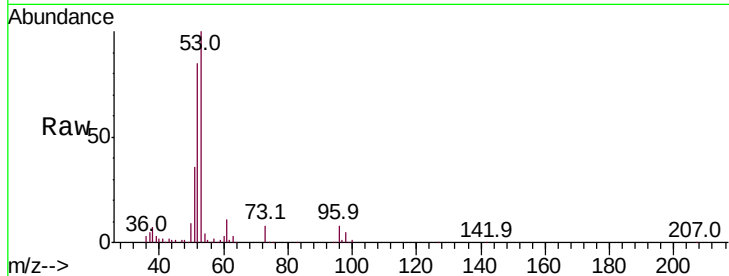
51 37.1 29.6 44.4

Manual Integrations

APPROVED

MMDadoda

3/14/2019 10:26:58 AM



#16

Acetone

Concen: 250.248 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN054203.D

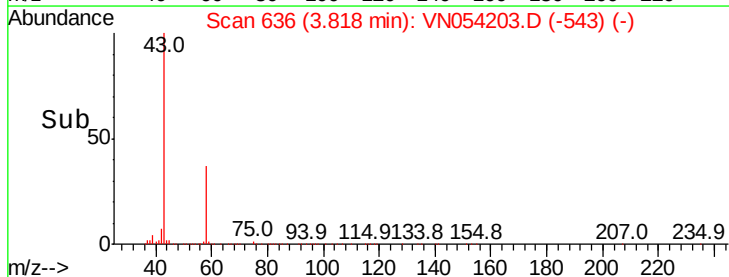
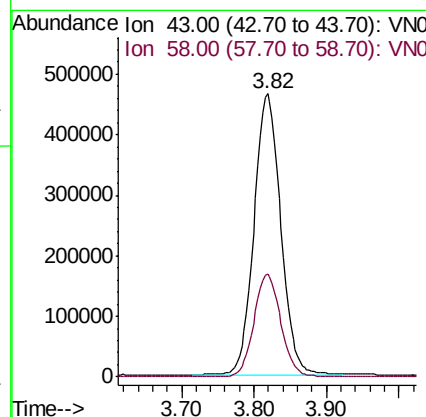
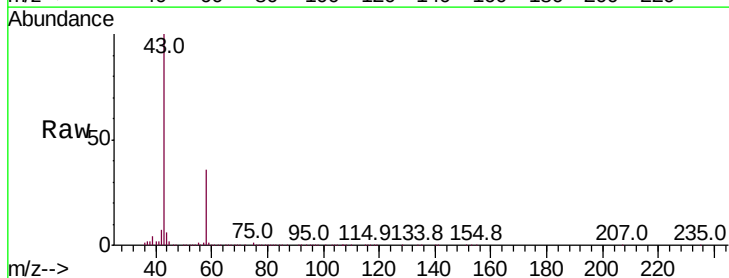
Acq: 13 Mar 2019 9:47

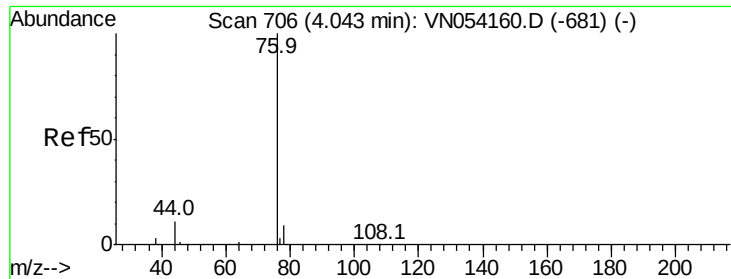
Tgt Ion: 43 Resp: 1196088

Ion Ratio Lower Upper

43 100

58 36.7 29.9 44.9





#17

Carbon Disulfide

Concen: 47.871 ug/l

RT: 4.04 min Scan# 705

Delta R.T. -0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 1959666

Ion Ratio Lower Upper

76 100

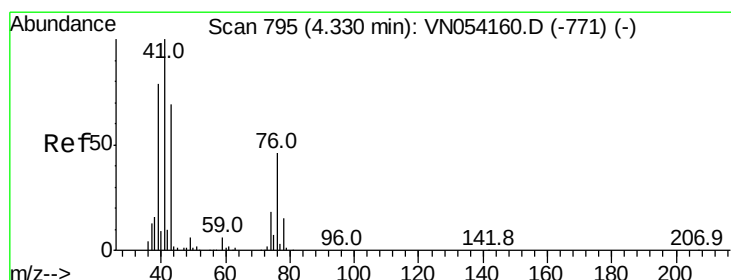
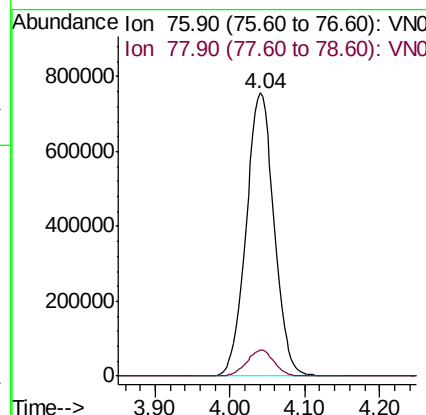
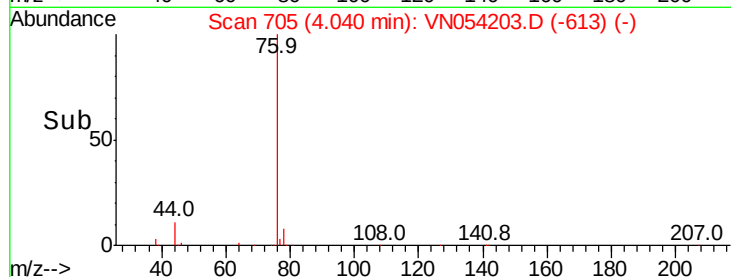
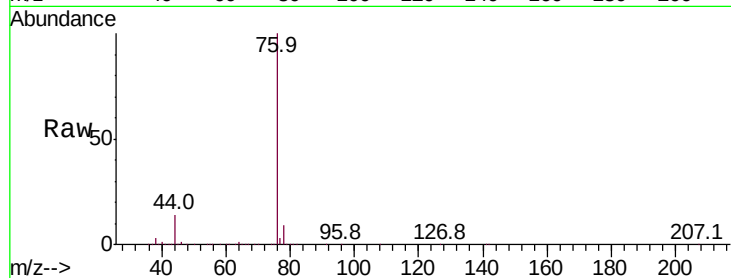
78 9.3 7.5 11.3

Manual Integrations

APPROVED

MMDadoda

3/14/2019 10:26:58 AM



#18

Methyl Acetate

Concen: 50.919 ug/l

RT: 4.33 min Scan# 794

Delta R.T. -0.00 min

Lab File: VN054203.D

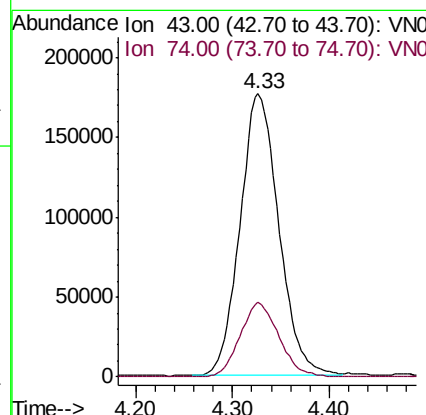
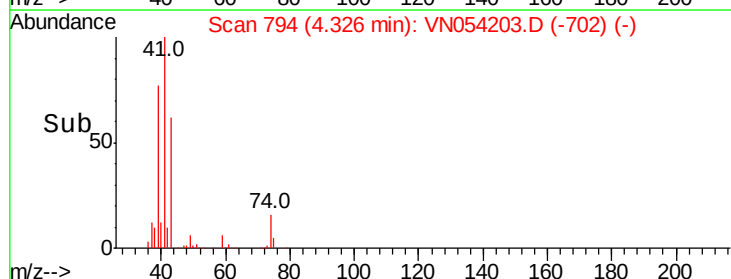
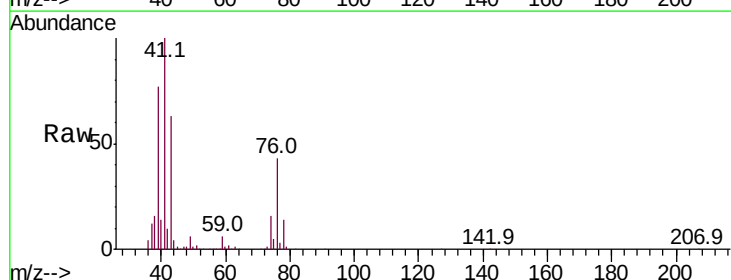
Acq: 13 Mar 2019 9:47

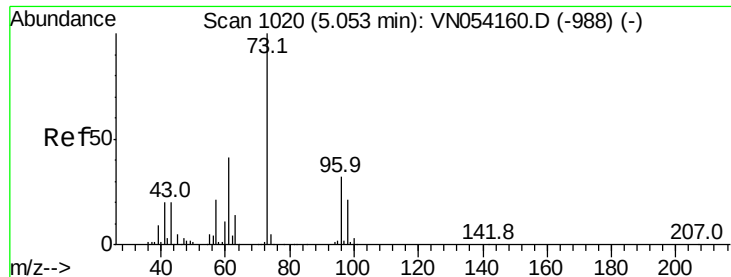
Tgt Ion: 43 Resp: 492388

Ion Ratio Lower Upper

43 100

74 26.4 20.8 31.2





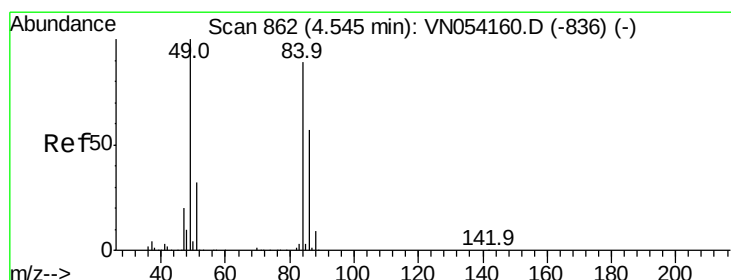
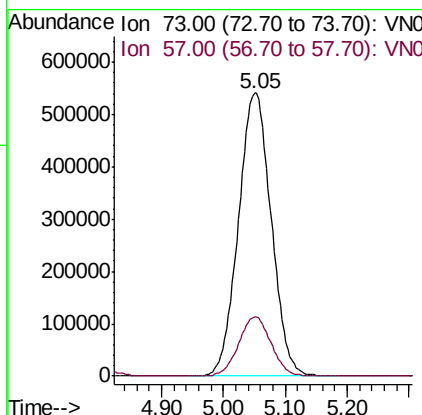
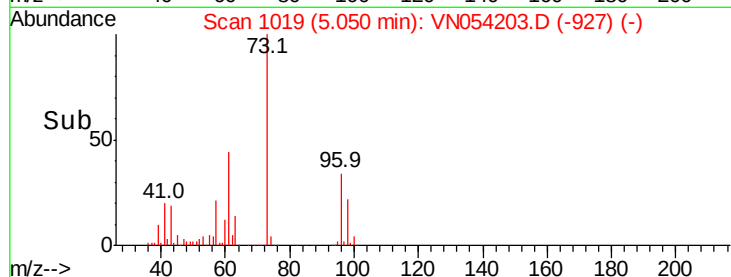
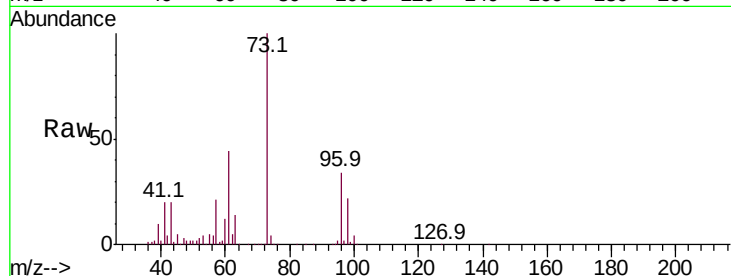
#19
Methyl tert-butyl Ether
Concen: 49.219 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. -0.00 min
Lab File: VN054203.D
Acq: 13 Mar 2019 9:47

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 1992208
Ion Ratio Lower Upper
73 100
57 20.9 16.8 25.2

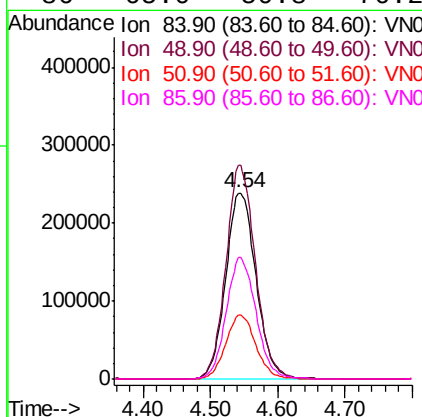
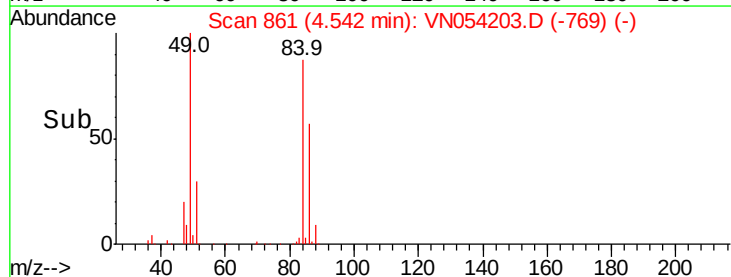
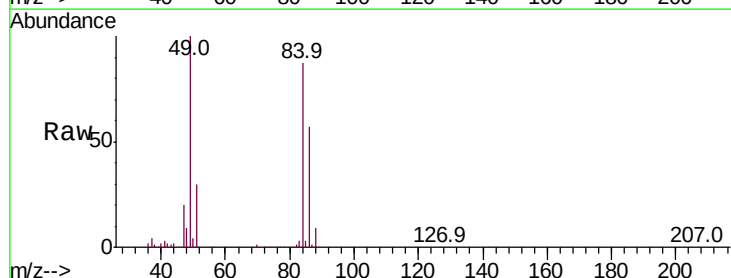
Manual Integrations
APPROVED

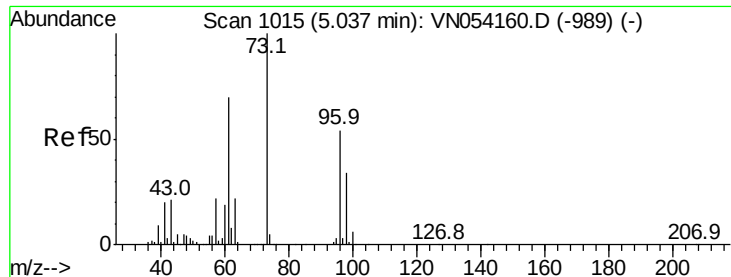
MMDadoda
3/14/2019 10:26:58 AM



#20
Methylene Chloride
Concen: 47.873 ug/l
RT: 4.54 min Scan# 861
Delta R.T. -0.00 min
Lab File: VN054203.D
Acq: 13 Mar 2019 9:47

Tgt Ion: 84 Resp: 751316
Ion Ratio Lower Upper
84 100
49 114.6 89.7 134.5
51 34.5 28.2 42.4
86 65.0 50.8 76.2





#21

trans-1,2-Dichloroethene

Concen: 49.035 ug/l

RT: 5.03 min Scan# 1014

Delta R.T. -0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 767213

Ion Ratio Lower Upper

96 100

61 130.5 102.8 154.2

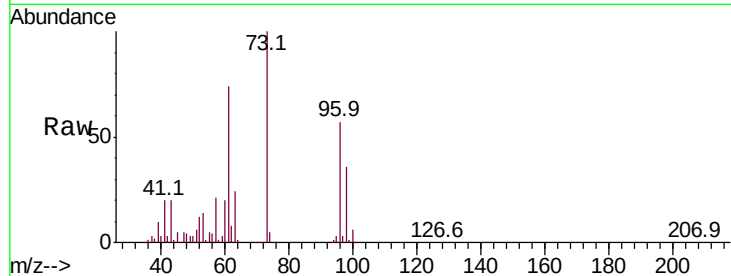
98 62.9 50.0 75.0

Manual Integrations

APPROVED

MMDadoda

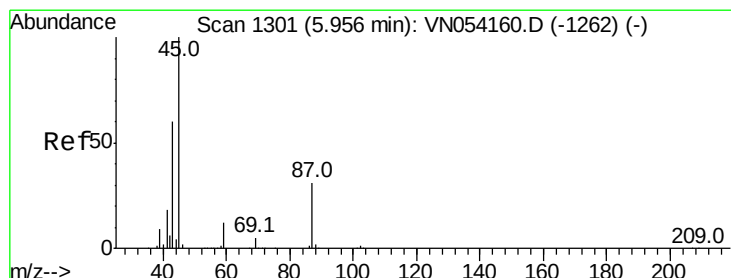
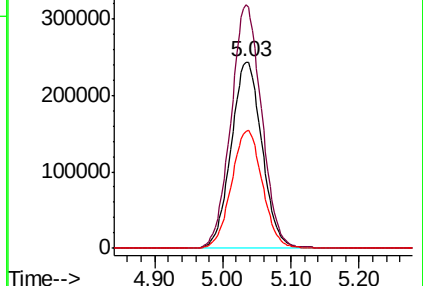
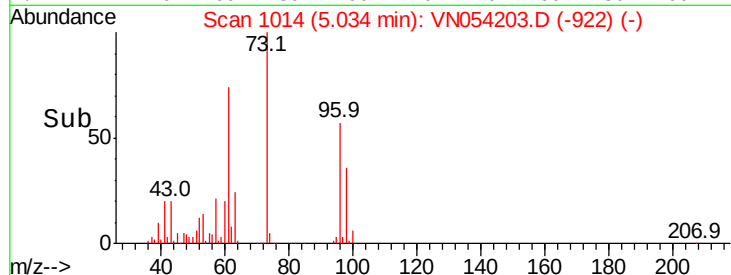
3/14/2019 10:26:58 AM



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#22

Diisopropyl ether

Concen: 49.492 ug/l

RT: 5.96 min Scan# 1301

Delta R.T. 0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

Tgt Ion: 45 Resp: 2069541

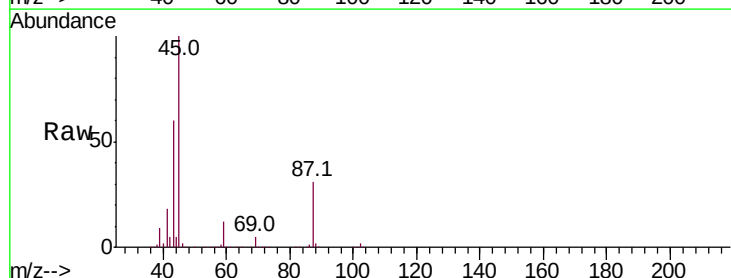
Ion Ratio Lower Upper

45 100

43 58.2 48.2 72.2

87 30.9 24.9 37.3

59 11.6 9.5 14.3

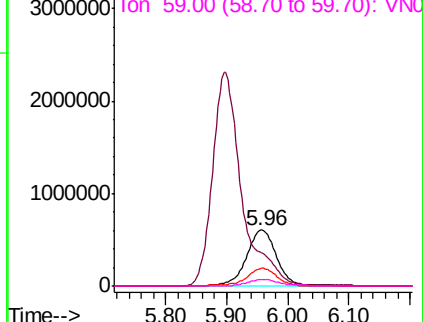
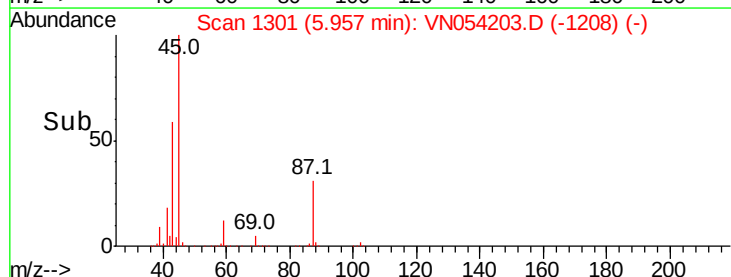


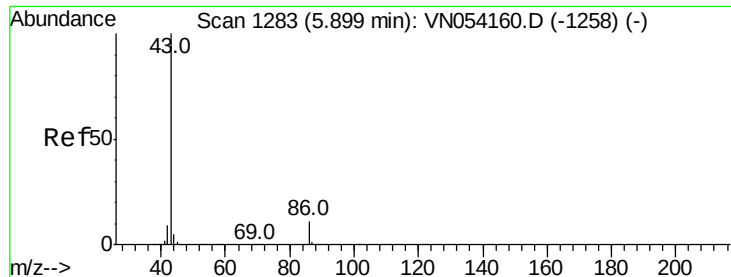
Abundance Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





#23

Vinyl Acetate

Concen: 250.295 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

Tot Ion: 43 Resp: 7716883

Ion Ratio Lower Upper

43 100

86 11.5 9.1 13.7

Instrument :

MSVOA_N

ClientSampleId :

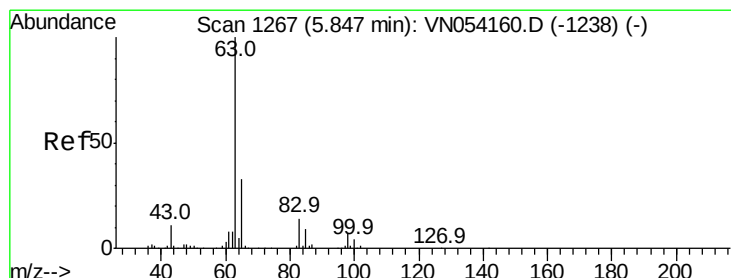
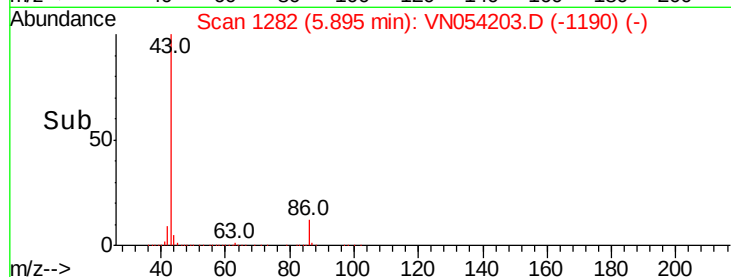
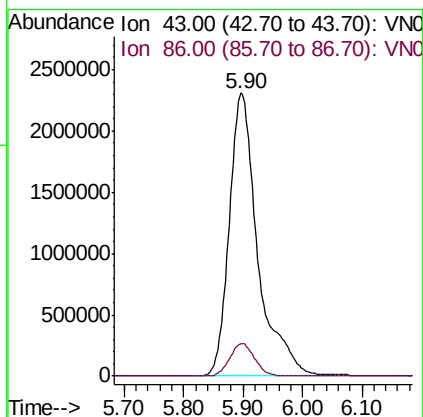
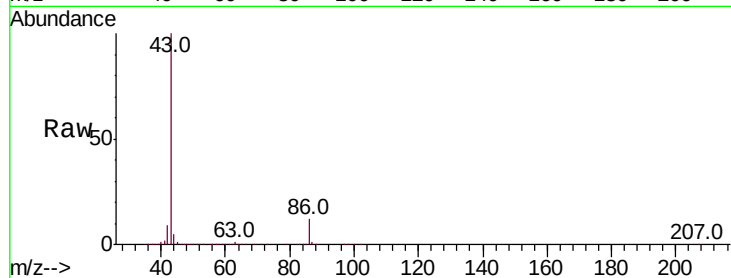
VSTDCCC050

Manual Integrations

APPROVED

MMDadoda

3/14/2019 10:26:58 AM



#24

1,1-Dichloroethane

Concen: 48.006 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. 0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

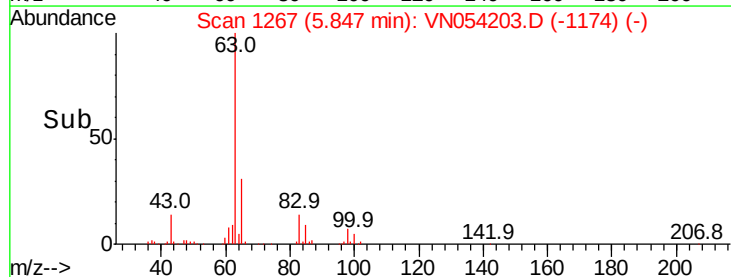
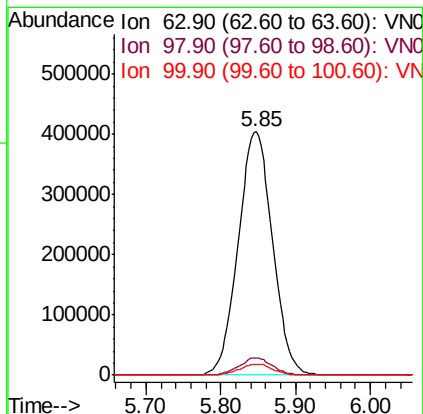
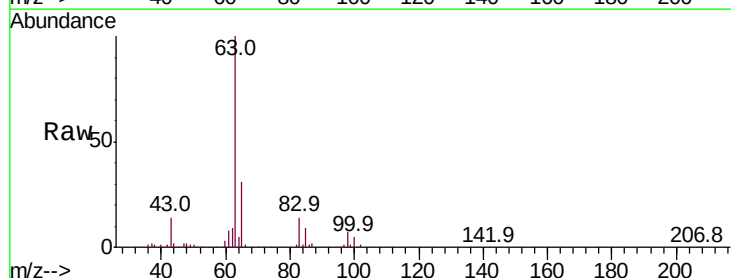
Tgt Ion: 63 Resp: 1288913

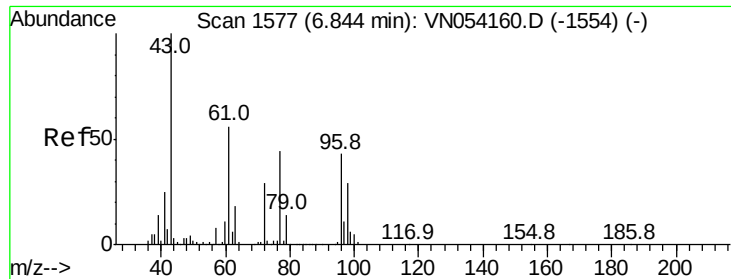
Ion Ratio Lower Upper

63 100

98 7.0 3.5 10.5

100 4.6 2.0 6.0





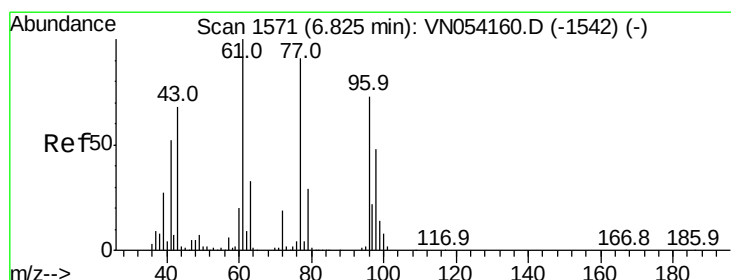
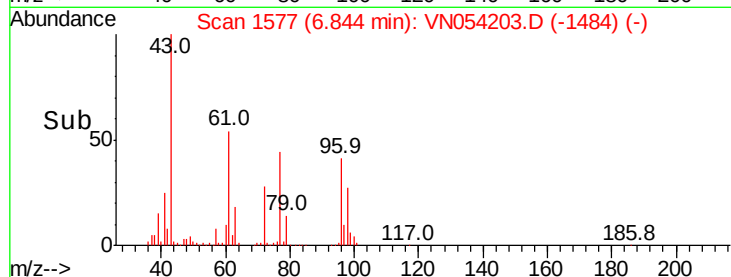
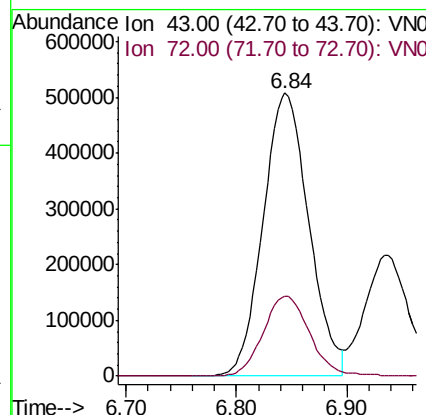
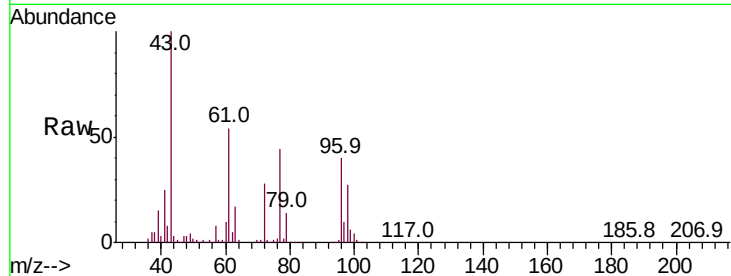
#25
2-Butanone
Concen: 259.080 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.00 min
Lab File: VN054203.D
Acq: 13 Mar 2019 9:47

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 1453390
Ion Ratio Lower Upper
43 100
72 28.4 23.0 34.6

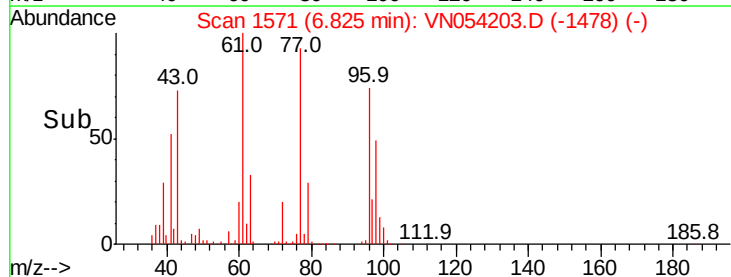
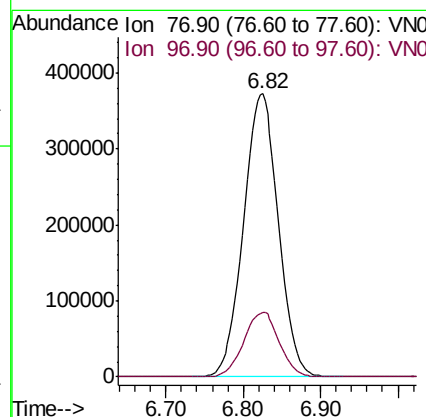
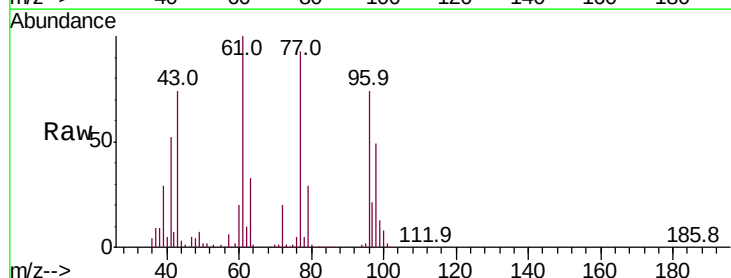
Manual Integrations
APPROVED

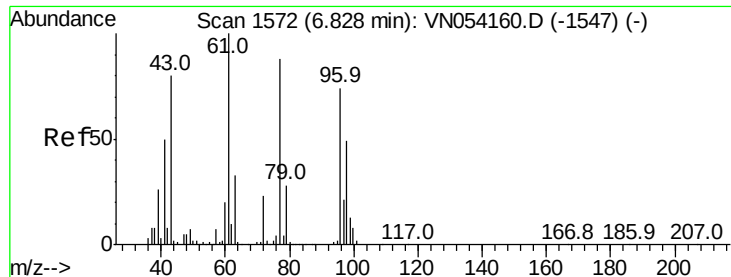
MMDadoda
3/14/2019 10:26:58 AM



#26
2,2-Dichloropropane
Concen: 49.323 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. 0.00 min
Lab File: VN054203.D
Acq: 13 Mar 2019 9:47

Tgt Ion: 77 Resp: 1164579
Ion Ratio Lower Upper
77 100
97 23.2 11.9 35.9





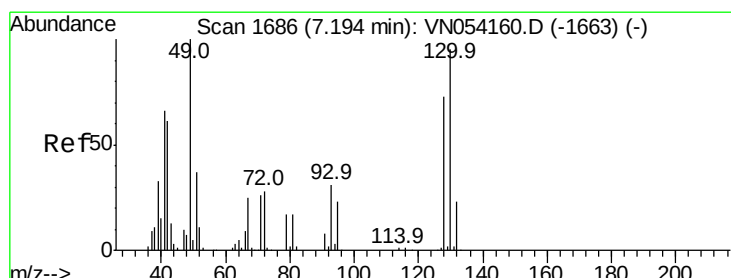
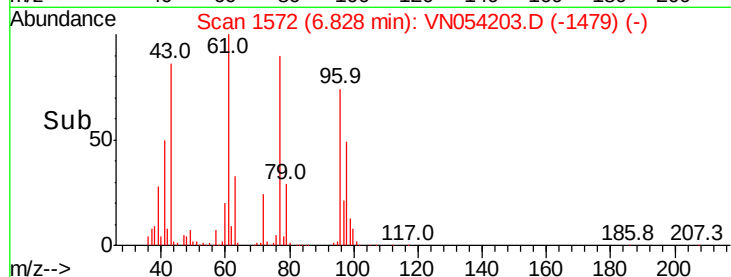
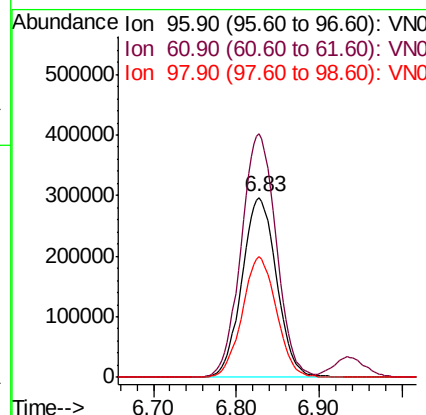
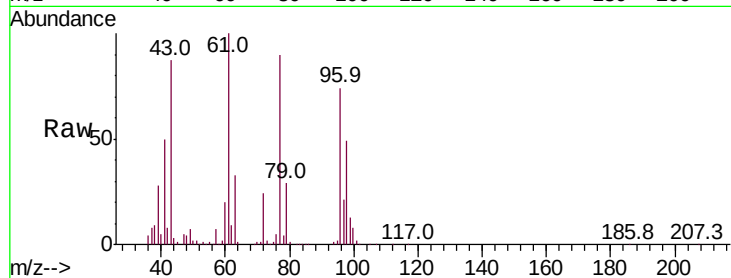
#27
 cis-1,2-Dichloroethene
 Concen: 49.390 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: VN054203.D
 Acq: 13 Mar 2019 9:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
96	100		
61	136.9	0.0	273.0
98	66.0	0.0	130.6

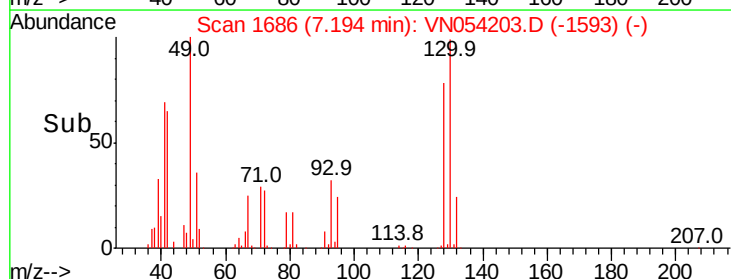
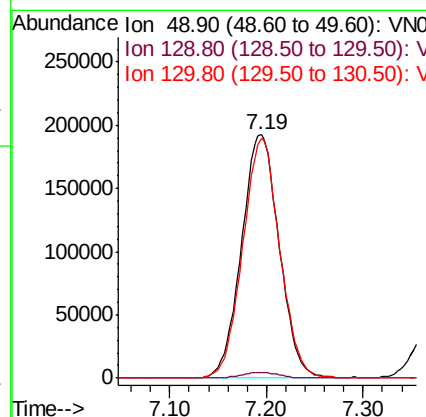
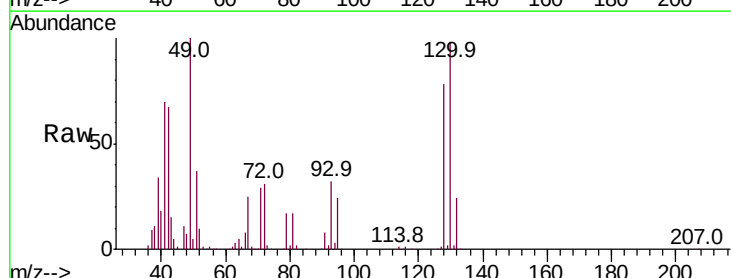
Manual Integrations
 APPROVED

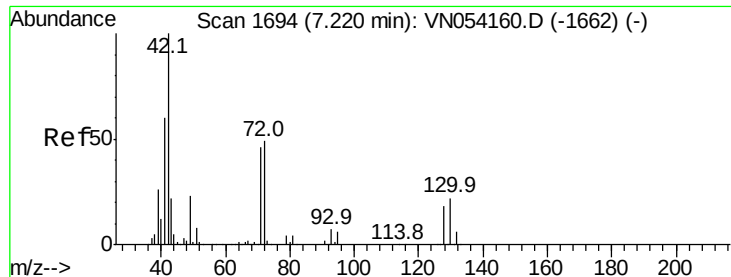
MMDadoda
 3/14/2019 10:26:58 AM



#28
 Bromochloromethane
 Concen: 47.422 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. 0.00 min
 Lab File: VN054203.D
 Acq: 13 Mar 2019 9:47

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	4.6
130	96.8	76.7	115.1





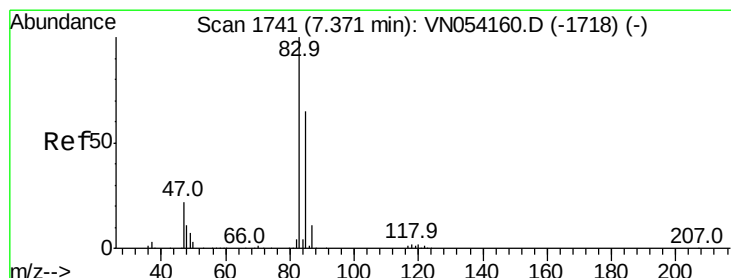
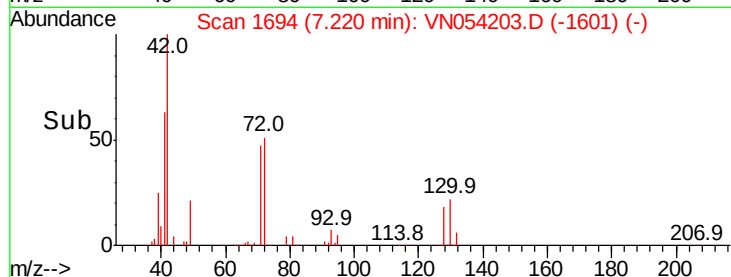
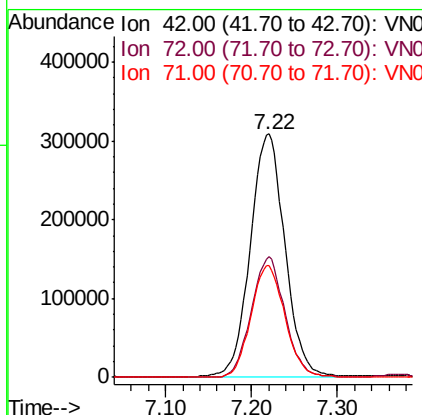
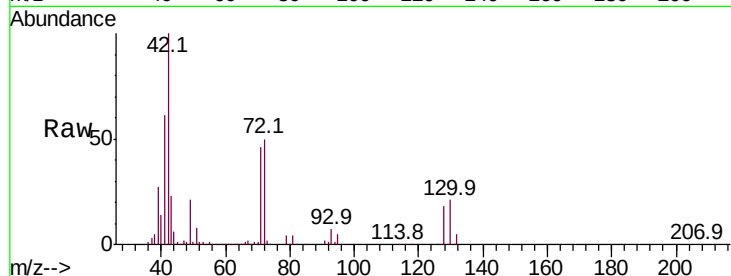
#29
Tetrahydrofuran
Concen: 239.083 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.00 min
Lab File: VN054203.D
Acq: 13 Mar 2019 9:47

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	48.0	37.8	56.6
71	45.5	36.2	54.2

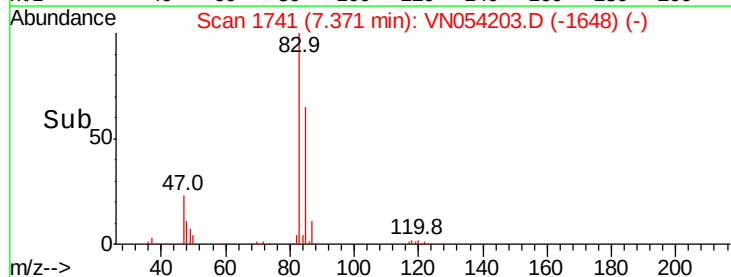
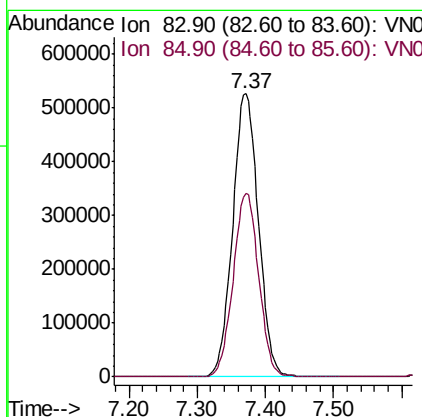
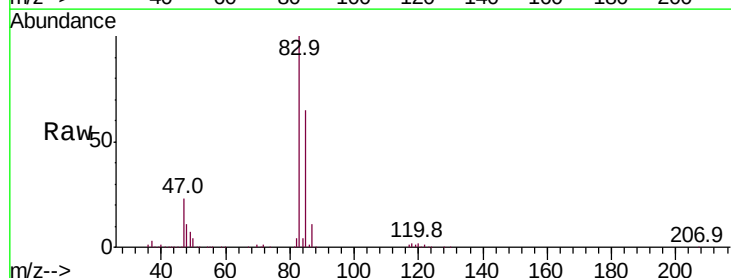
Manual Integrations
APPROVED

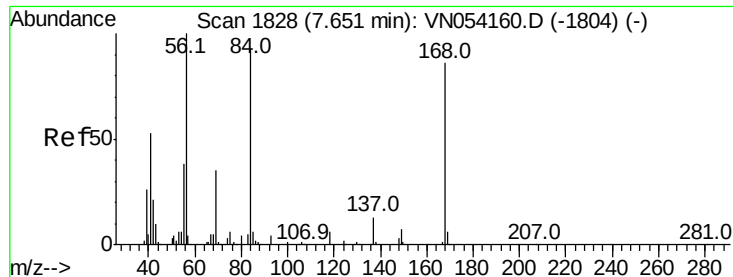
MMDadoda
3/14/2019 10:26:58 AM



#30
Chloroform
Concen: 49.299 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN054203.D
Acq: 13 Mar 2019 9:47

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.9	52.2	78.4





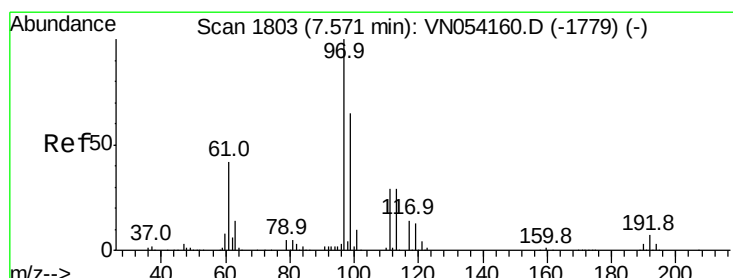
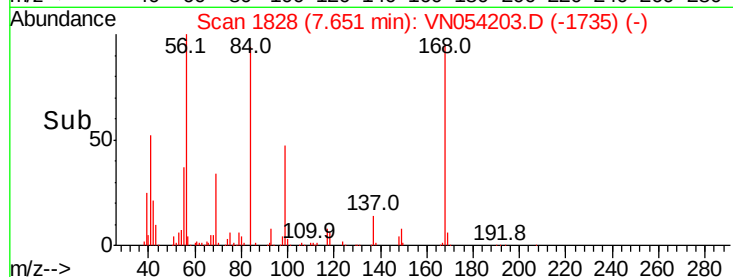
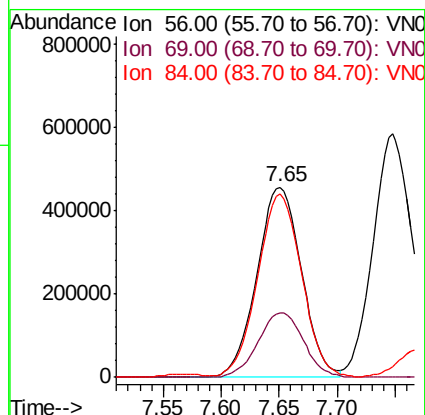
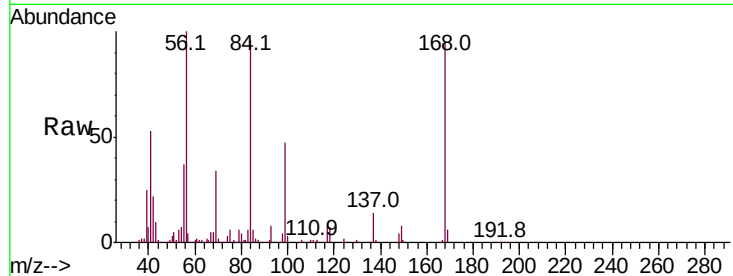
#31
Cyclohexane
Concen: 48.523 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.00 min
Lab File: VN054203.D
Acq: 13 Mar 2019 9:47

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion: 56 Resp: 1218922
Ion Ratio Lower Upper
56 100
69 34.0 27.8 41.6
84 94.5 74.6 111.8

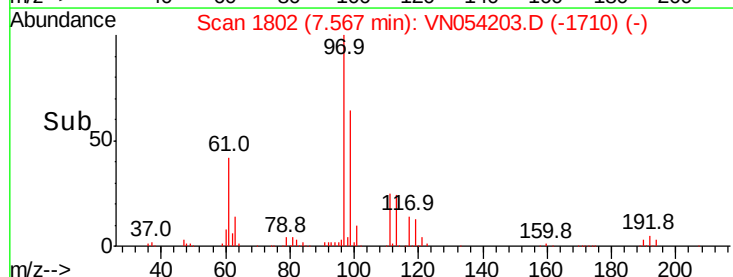
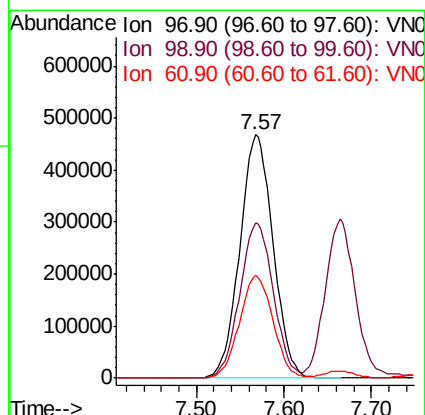
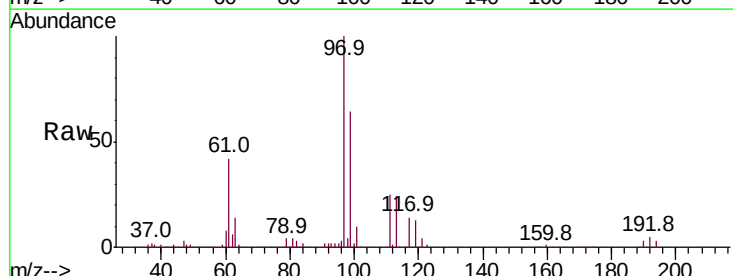
Manual Integrations
APPROVED

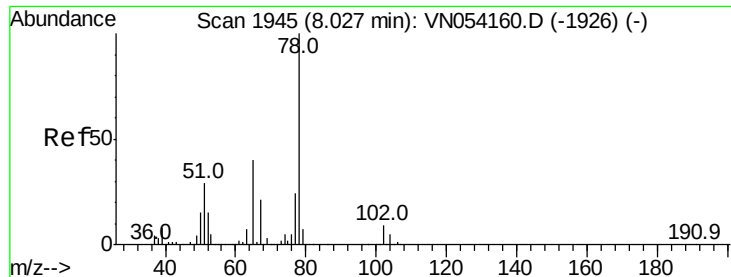
MMDadoda
3/14/2019 10:26:58 AM



#32
1,1,1-Trichloroethane
Concen: 48.714 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. -0.00 min
Lab File: VN054203.D
Acq: 13 Mar 2019 9:47

Tgt Ion: 97 Resp: 1232619
Ion Ratio Lower Upper
97 100
99 64.3 51.5 77.3
61 42.5 33.6 50.4





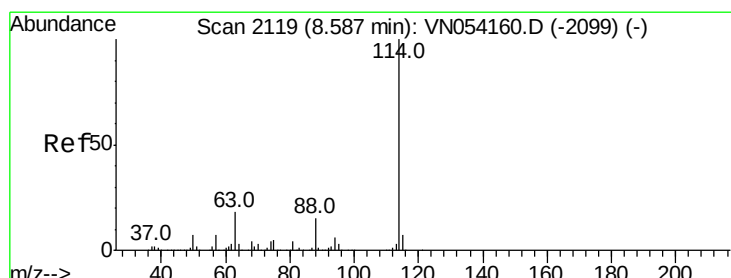
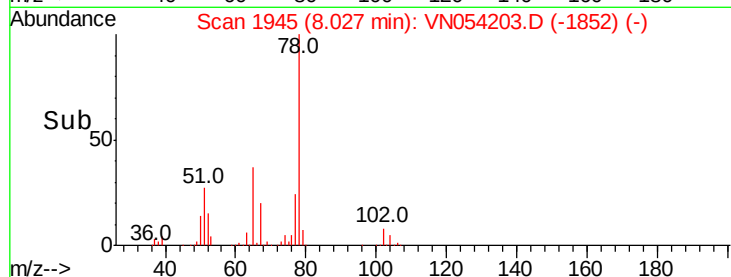
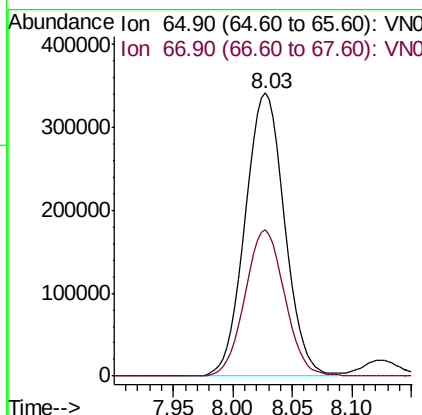
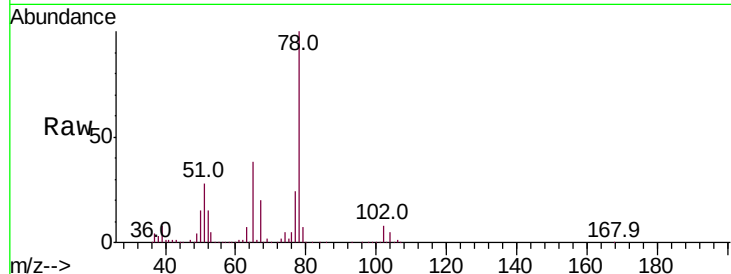
#33
 1,2-Dichloroethane-d4
 Concen: 47.234 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054203.D
 Acq: 13 Mar 2019 9:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100	788483		
67	52.0	0.0	104.6	

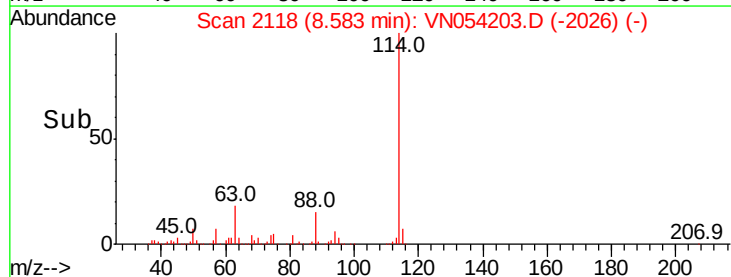
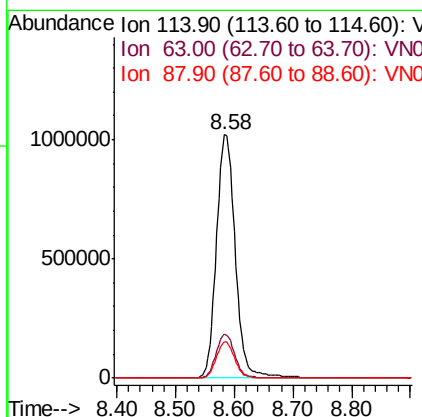
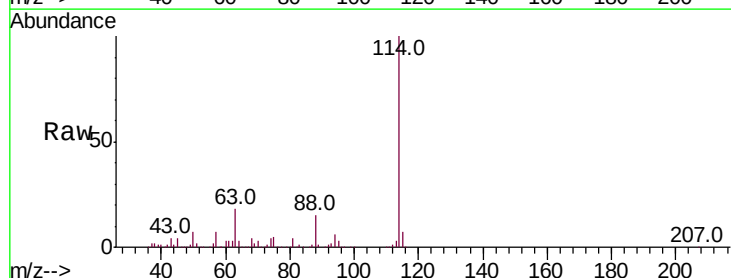
Manual Integrations
 APPROVED

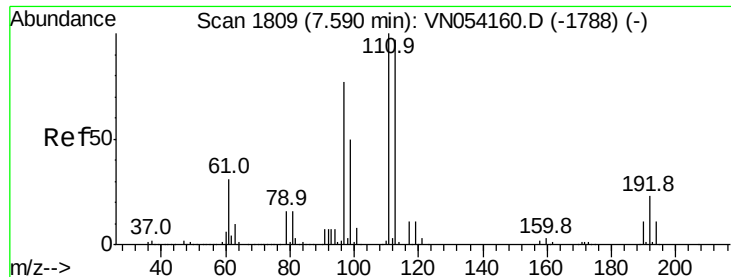
MMDadoda
 3/14/2019 10:26:58 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN054203.D
 Acq: 13 Mar 2019 9:47

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	2266746		
63	18.0	0.0	35.2	
88	14.9	0.0	30.2	





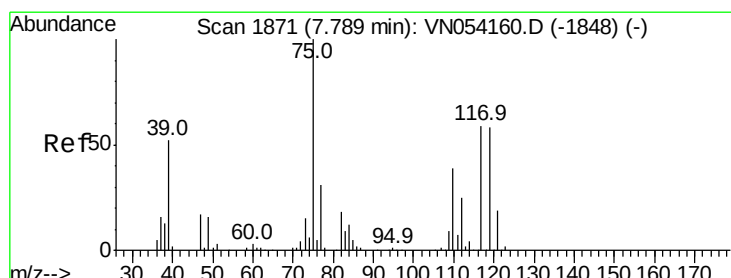
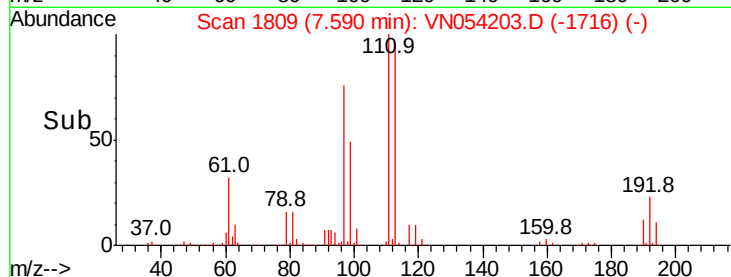
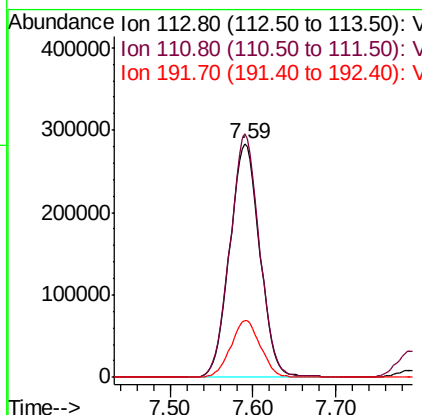
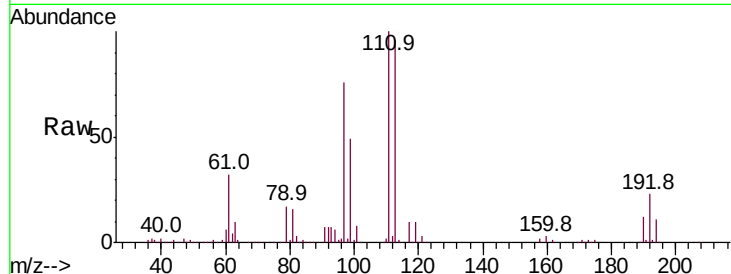
#35
 Dibromofluoromethane
 Concen: 49.069 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN054203.D
 Acq: 13 Mar 2019 9:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	717370		
111	102.7	82.2	123.4	
192	24.1	19.2	28.8	

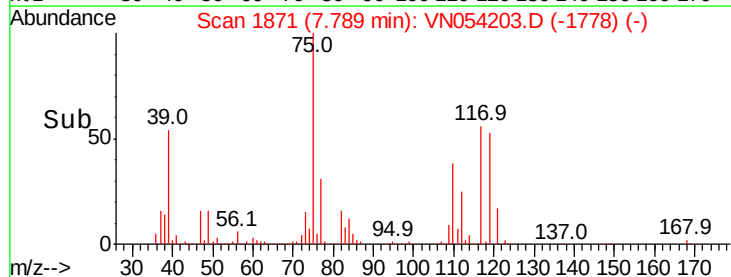
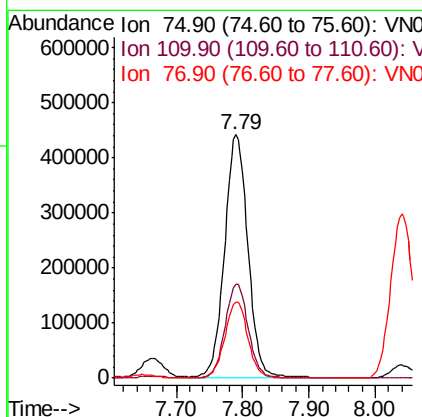
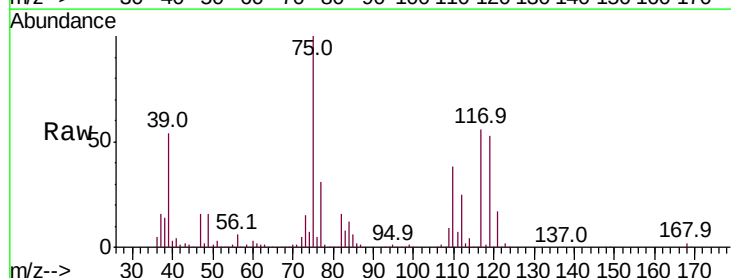
Manual Integrations
 APPROVED

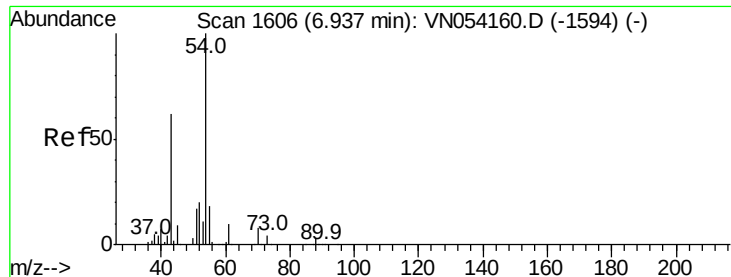
MMDadoda
 3/14/2019 10:26:58 AM



#36
 1,1-Dichloropropene
 Concen: 51.933 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. 0.00 min
 Lab File: VN054203.D
 Acq: 13 Mar 2019 9:47

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	1084091		
110	38.1	19.1	57.5	
77	31.1	25.0	37.4	





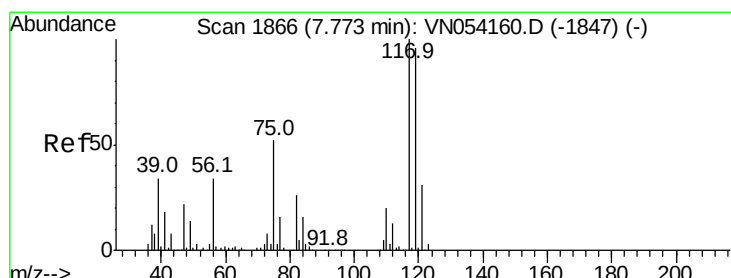
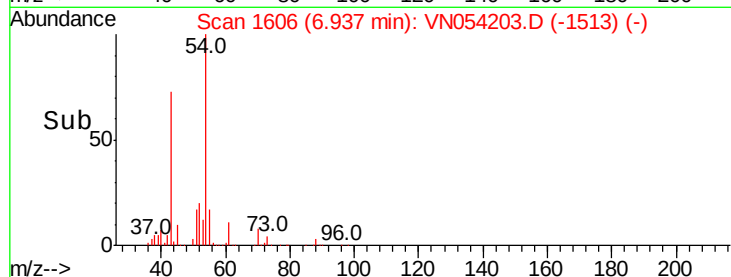
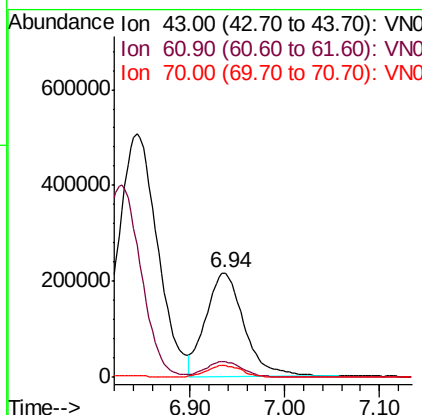
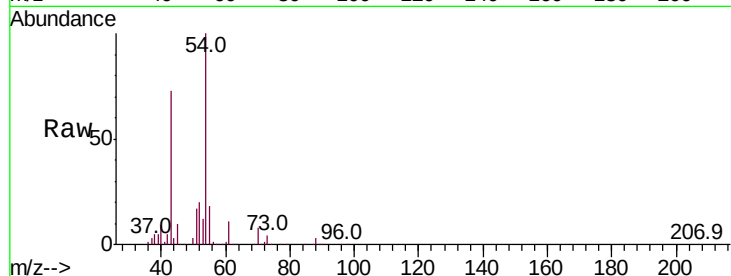
#37
Ethyl Acetate
Concen: 50.473 ug/l
RT: 6.94 min Scan# 1606
Delta R.T. 0.00 min
Lab File: VN054203.D
Acq: 13 Mar 2019 9:47

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.9	11.8	17.6
70	10.6	8.4	12.6

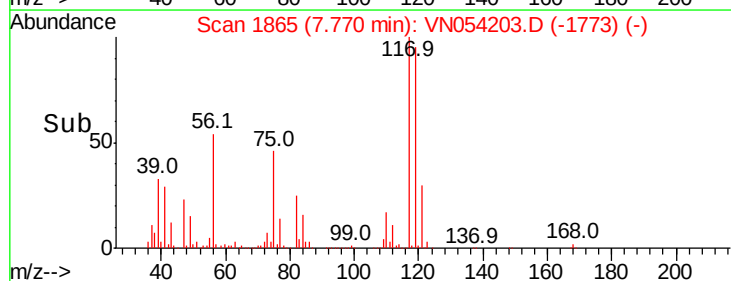
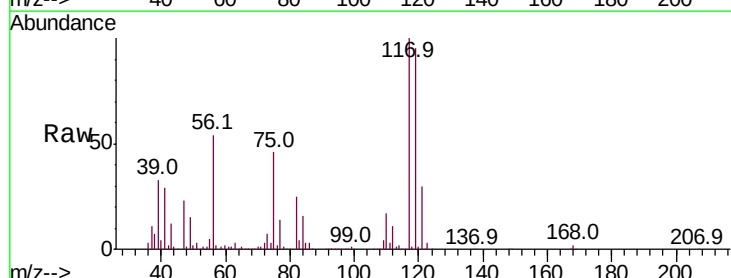
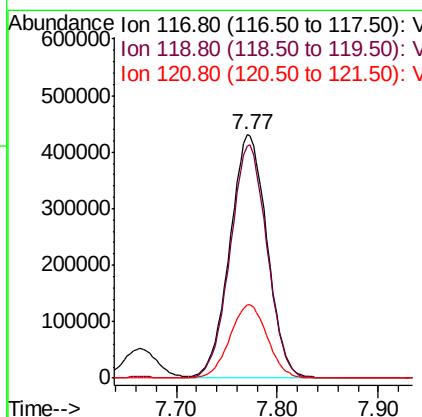
Manual Integrations
APPROVED

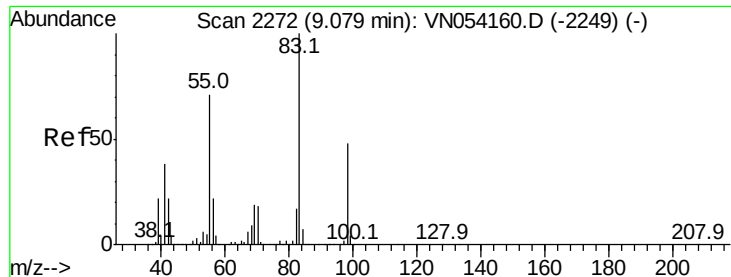
MMDadoda
3/14/2019 10:26:58 AM



#38
Carbon Tetrachloride
Concen: 50.363 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VN054203.D
Acq: 13 Mar 2019 9:47

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.4	76.3	114.5
121	29.9	24.6	36.8





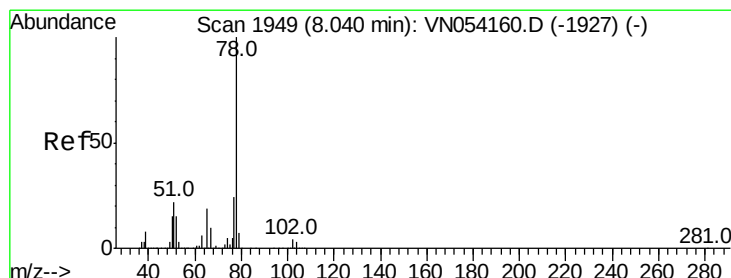
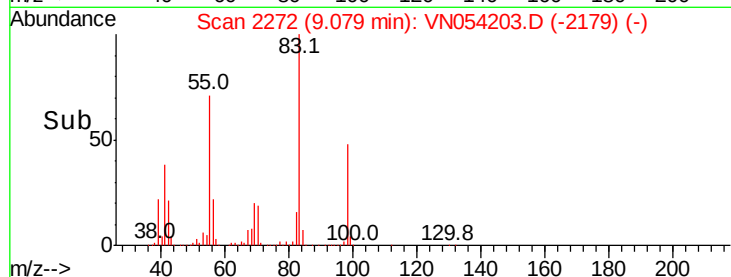
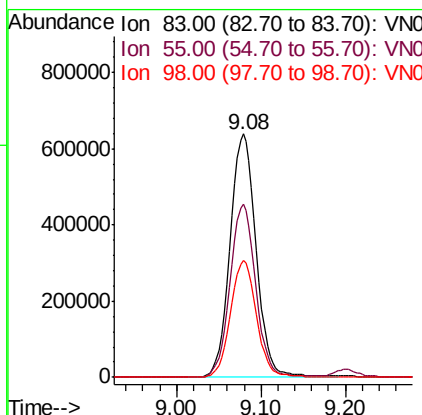
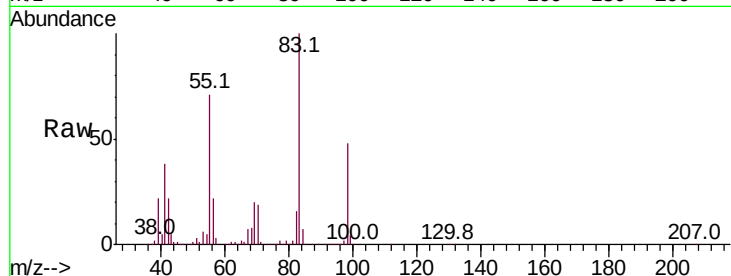
#39
Methylvlcyclohexane
Concen: 53.590 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN054203.D
Acq: 13 Mar 2019 9:47

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	83	Resp	1376403
Ion	Ratio	Lower	Upper
83	100		
55	71.2	56.6	84.8
98	48.1	38.4	57.6

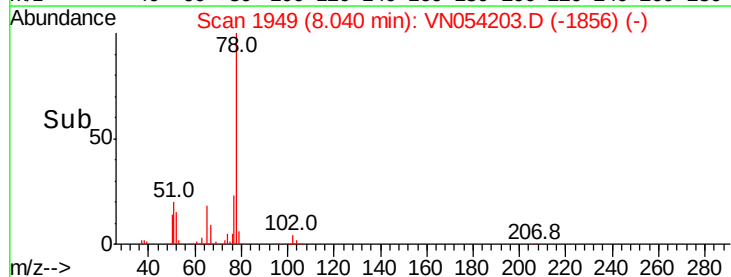
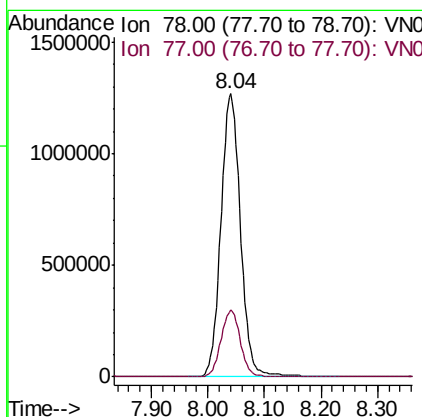
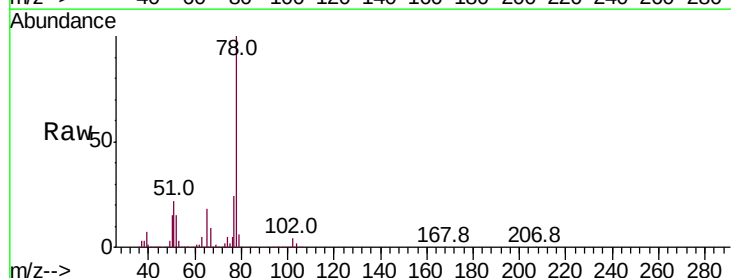
Manual Integrations
APPROVED

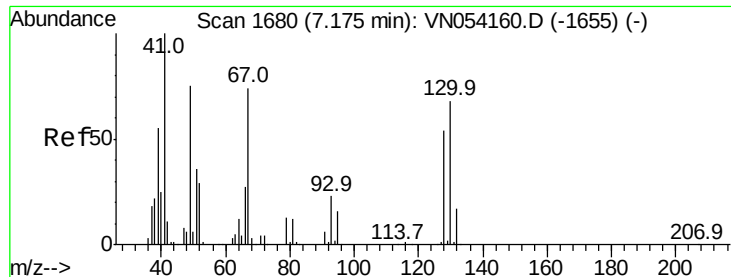
MMDadoda
3/14/2019 10:26:58 AM



#40
Benzene
Concen: 51.135 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN054203.D
Acq: 13 Mar 2019 9:47

Tgt Ion	78	Resp	3054587
Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.1	28.7





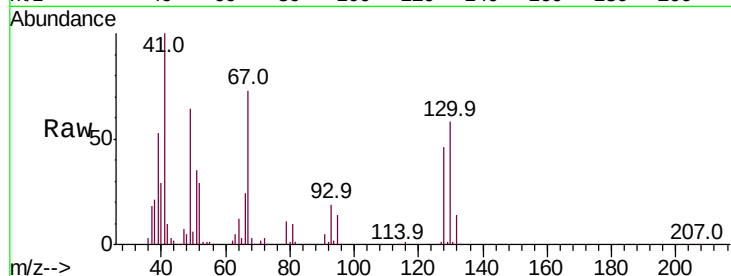
#41
Methacrylonitrile
Concen: 47.614 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VN054203.D
Acq: 13 Mar 2019 9:47

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

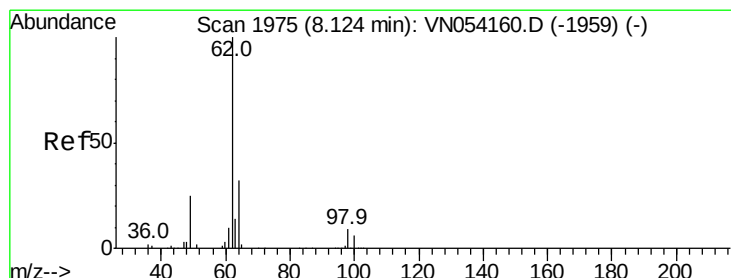
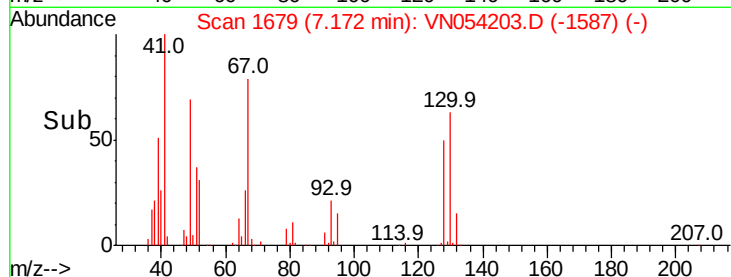
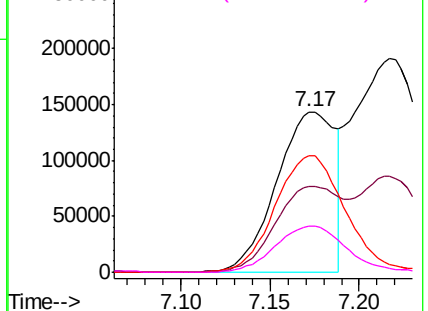
Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	62.2	46.8	70.2	
67	88.4	67.0	100.4	
52	34.9	26.5	39.7	

Manual Integrations
APPROVED

MMDadoda
3/14/2019 10:26:58 AM

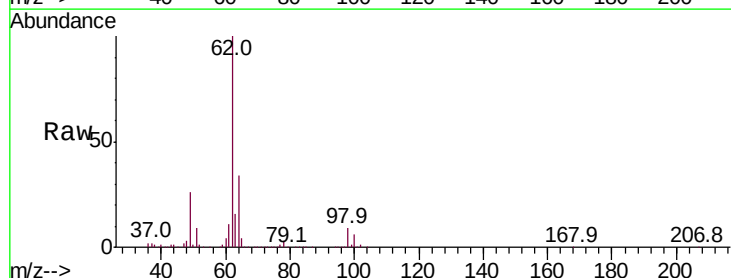


Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 67.00 (66.70 to 67.70): VNO
Ion 52.00 (51.70 to 52.70): VNO

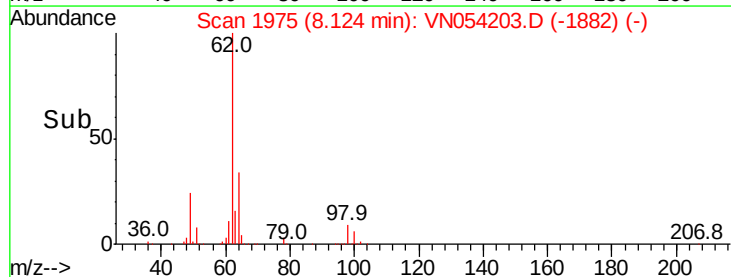
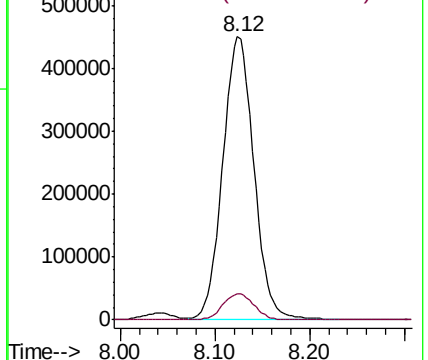


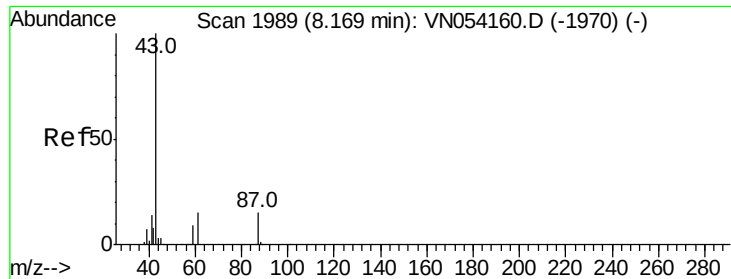
#42
1,2-Dichloroethane
Concen: 50.766 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN054203.D
Acq: 13 Mar 2019 9:47

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.4	0.0	18.4	



Abundance Ion 61.90 (61.60 to 62.60): VNO
Ion 97.90 (97.60 to 98.60): VNO





#43

Isopropyl Acetate

Concen: 50.117 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1055139

Ion Ratio Lower Upper

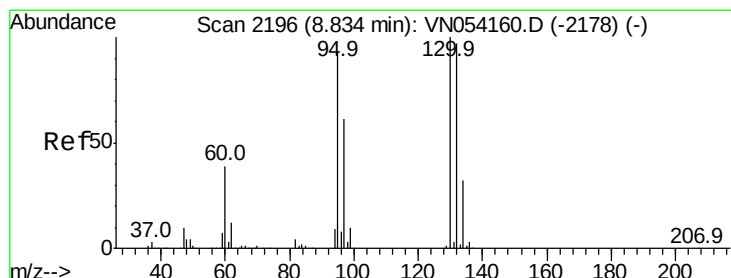
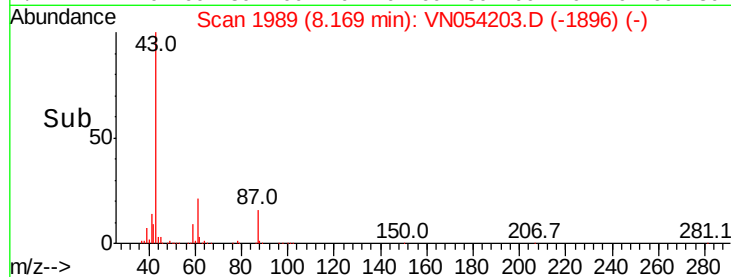
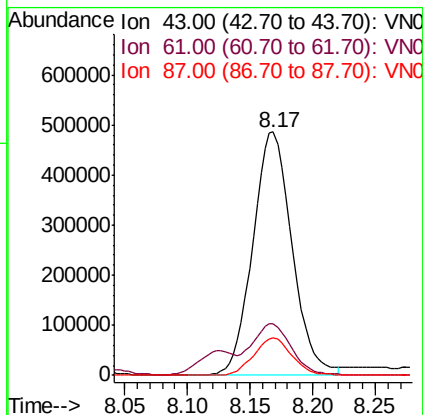
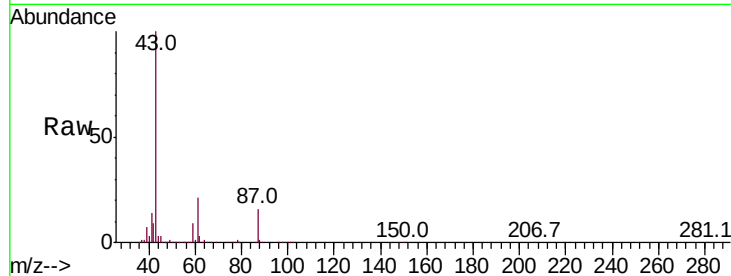
43 100

61 20.5 15.8 23.8

87 15.4 12.0 18.0

Manual Integrations
APPROVED

MMDadoda
3/14/2019 10:26:58 AM



#44

Trichloroethene

Concen: 51.681 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN054203.D

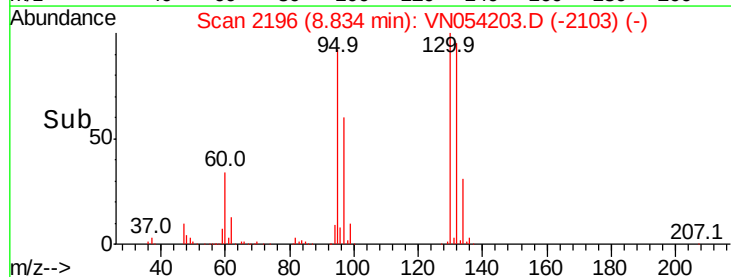
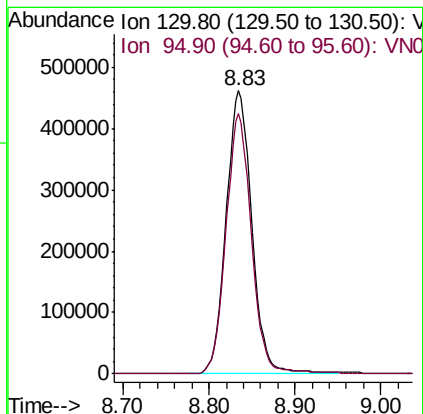
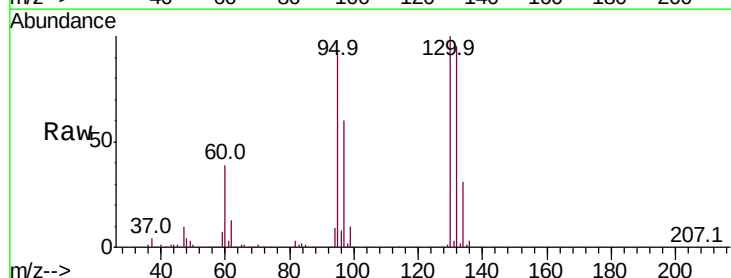
Acq: 13 Mar 2019 9:47

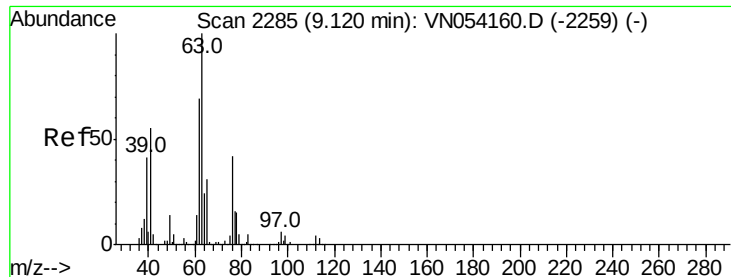
Tgt Ion:130 Resp: 959029

Ion Ratio Lower Upper

130 100

95 92.0 0.0 185.2





#45

1,2-Dichloropropane

Concen: 51.390 ug/l

RT: 9.12 min Scan# 2284

Delta R.T. -0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 762266

Ion Ratio Lower Upper

63 100

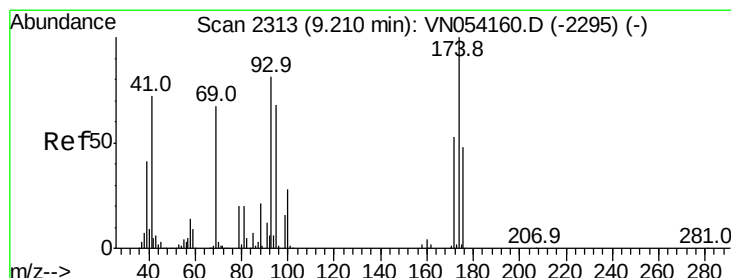
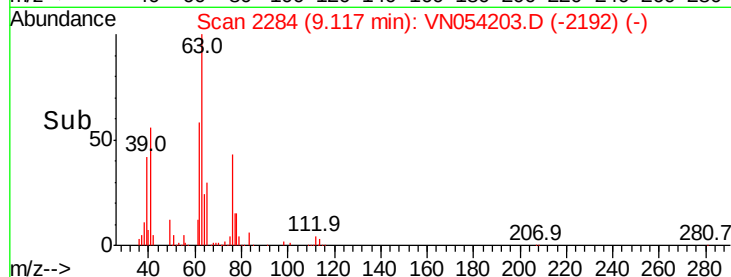
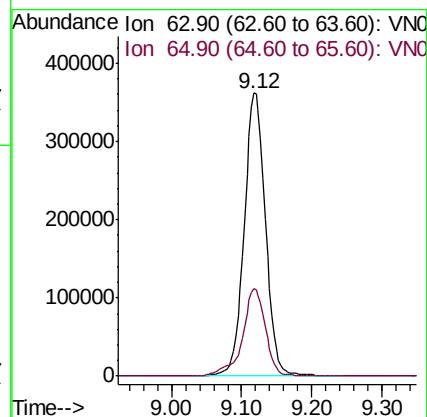
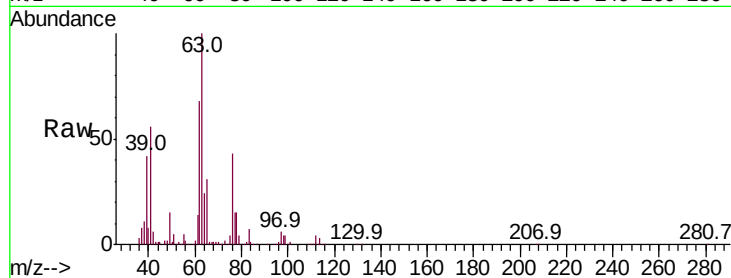
65 31.1 25.0 37.6

Manual Integrations

APPROVED

MMDadoda

3/14/2019 10:26:58 AM



#46

Dibromomethane

Concen: 50.975 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. -0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

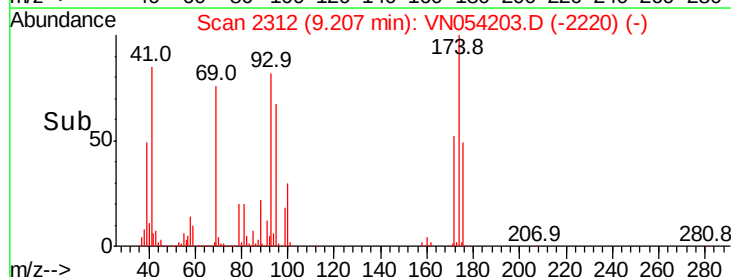
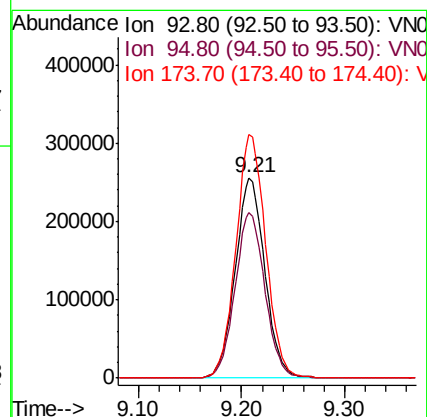
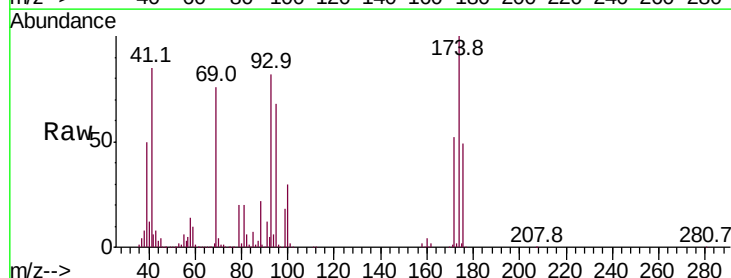
Tgt Ion: 93 Resp: 510869

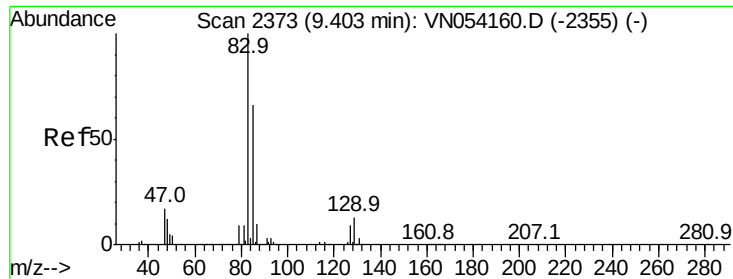
Ion Ratio Lower Upper

93 100

95 83.1 66.7 100.1

174 122.7 98.5 147.7





#47

Bromodichloromethane

Concen: 51.711 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 1038943

Ion Ratio Lower Upper

83 100

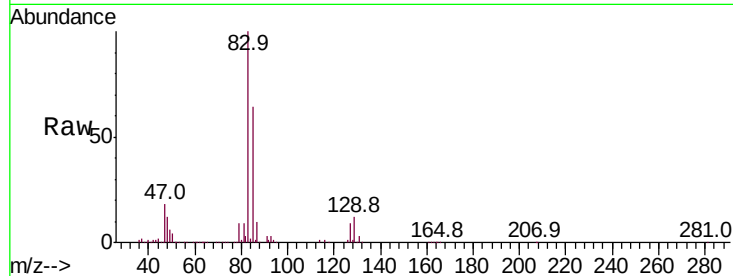
85 64.1 52.8 79.2

127 9.0 7.4 11.2

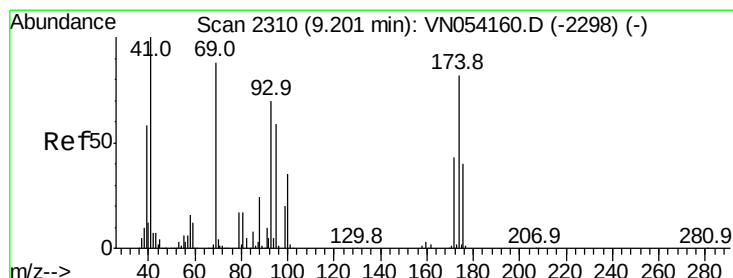
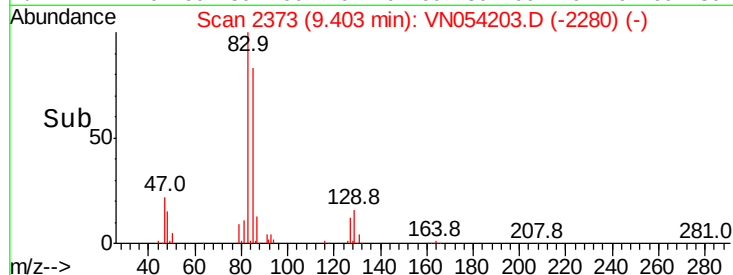
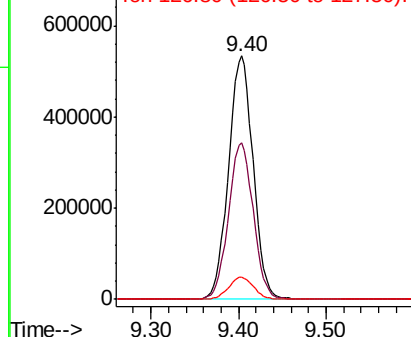
Manual Integrations
APPROVED

MMDadoda

3/14/2019 10:26:58 AM



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 84.90 (84.60 to 85.60): VNO
Ion 126.80 (126.50 to 127.50): VNO



#48

Methyl methacrylate

Concen: 53.159 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

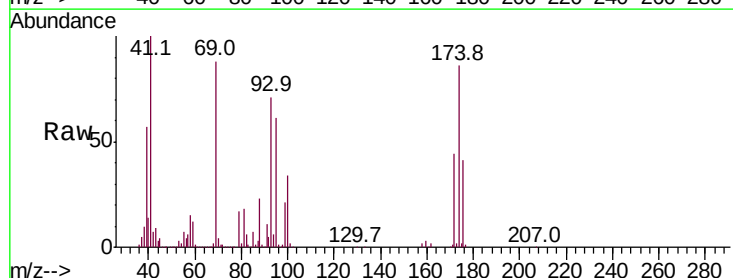
Tgt Ion: 41 Resp: 567970

Ion Ratio Lower Upper

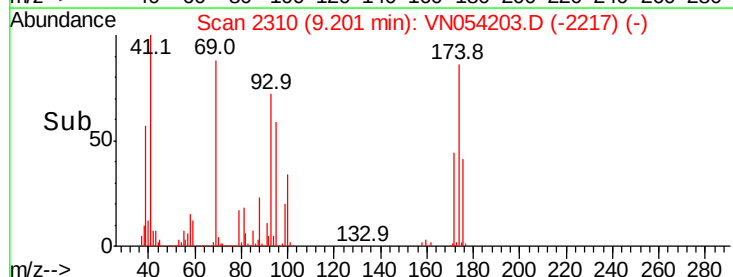
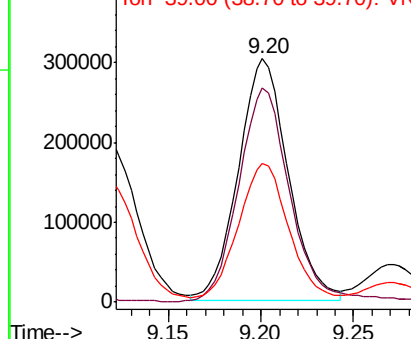
41 100

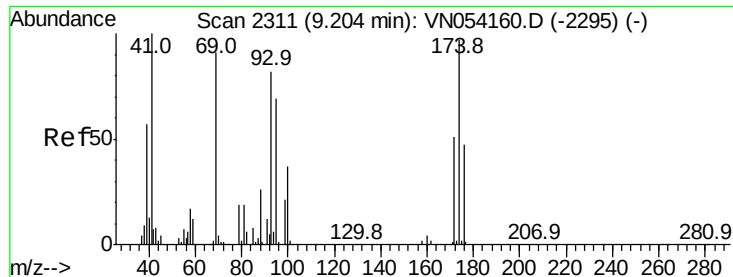
69 91.1 72.6 108.8

39 58.5 47.5 71.3



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO





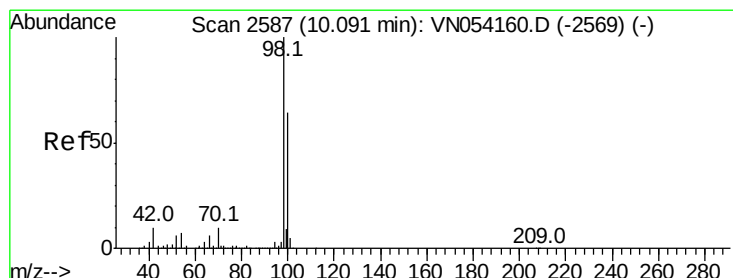
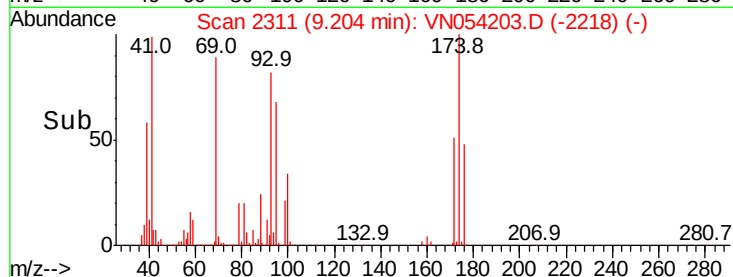
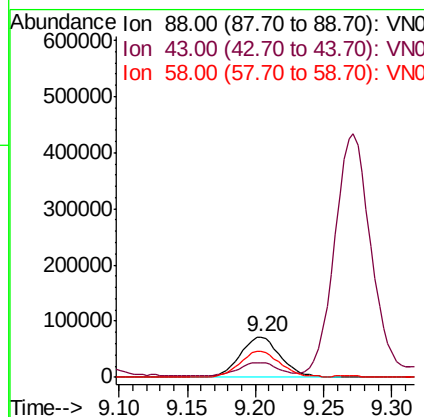
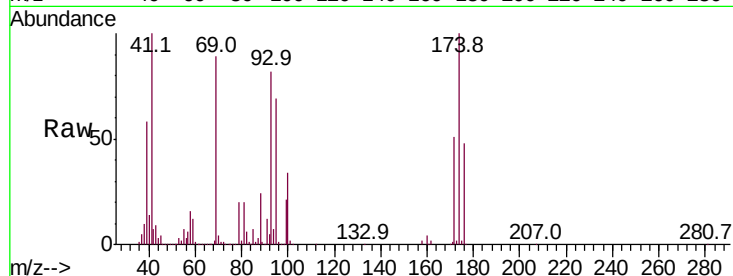
#49
1,4-Dioxane
Concen: 981.333 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN054203.D
Acq: 13 Mar 2019 9:47

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	31.7	24.1	36.1
58	64.6	50.8	76.2

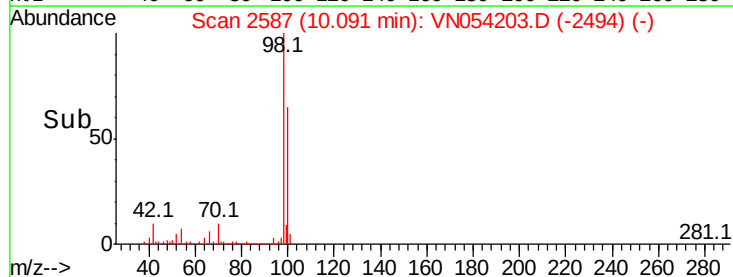
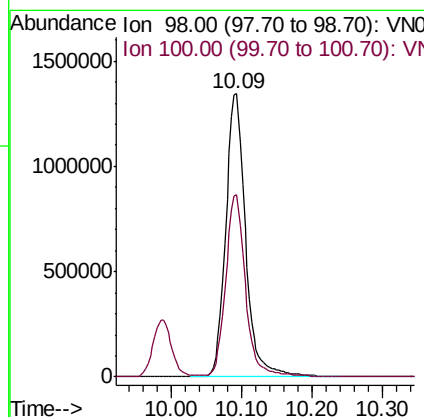
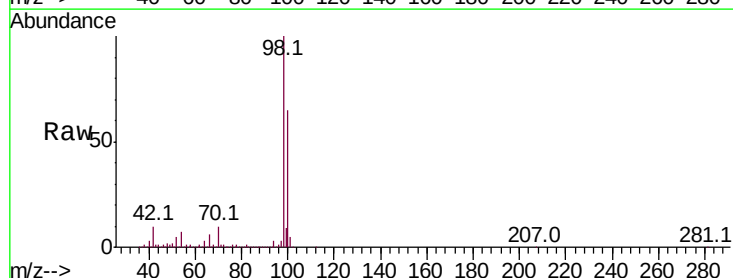
Manual Integrations
APPROVED

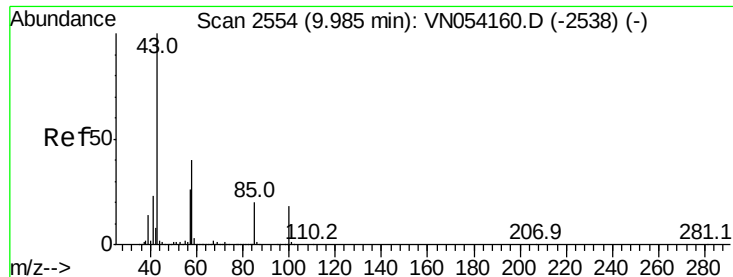
MMDadoda
3/14/2019 10:26:58 AM



#50
Toluene-d8
Concen: 49.358 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN054203.D
Acq: 13 Mar 2019 9:47

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.5	51.2	76.8





#51

4-Methyl-2-Pentanone

Concen: 265.404 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 2957037

Ion Ratio Lower Upper

43 100

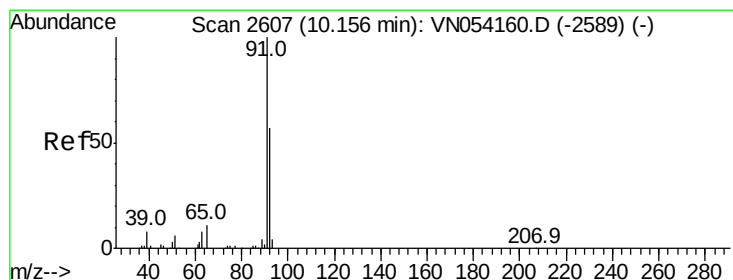
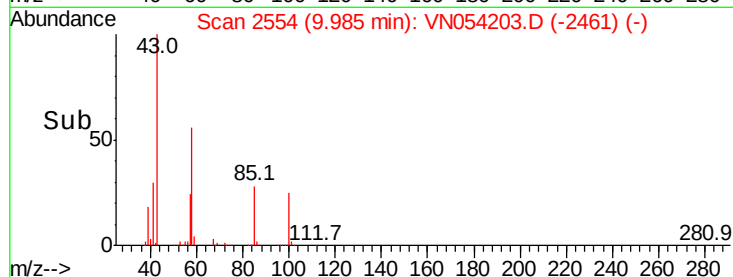
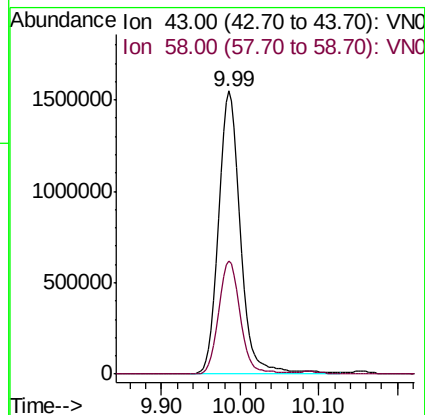
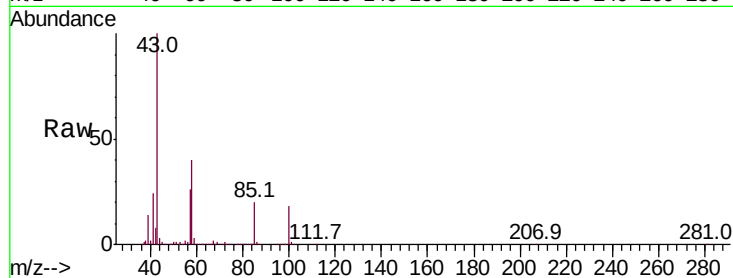
58 39.9 31.8 47.6

Manual Integrations

APPROVED

MMDadoda

3/14/2019 10:26:58 AM



#52

Toluene

Concen: 52.005 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN054203.D

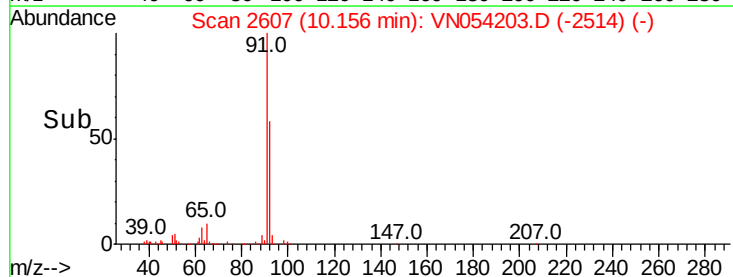
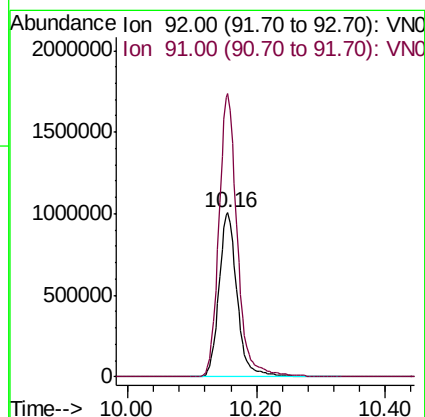
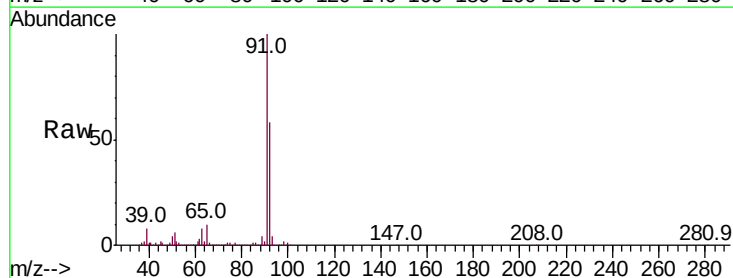
Acq: 13 Mar 2019 9:47

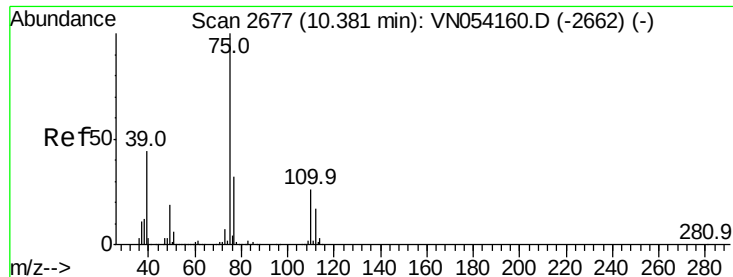
Tgt Ion: 92 Resp: 1969766

Ion Ratio Lower Upper

92 100

91 174.2 140.7 211.1





#53

t-1,3-Dichloropropene

Concen: 47.422 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 1087279

Ion Ratio Lower Upper

75 100

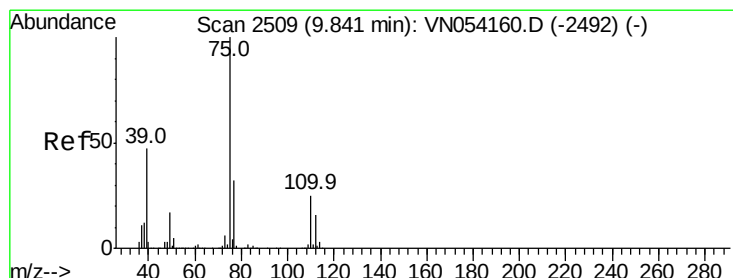
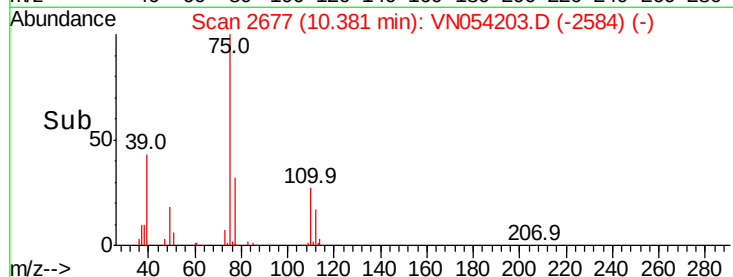
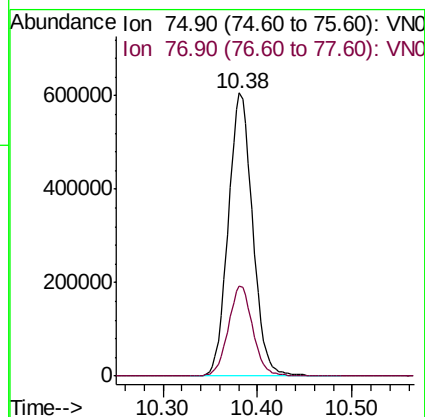
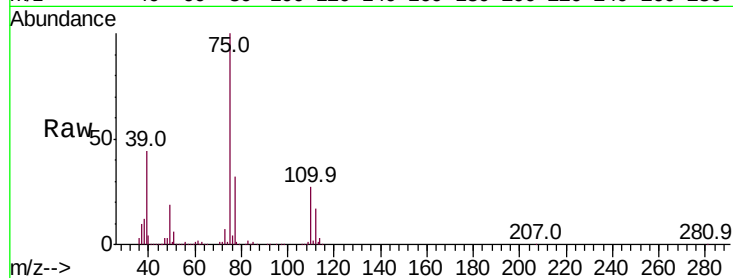
77 31.9 25.8 38.8

Manual Integrations

APPROVED

MMDadoda

3/14/2019 10:26:58 AM



#54

cis-1,3-Dichloropropene

Concen: 52.600 ug/l

RT: 9.84 min Scan# 2508

Delta R.T. -0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

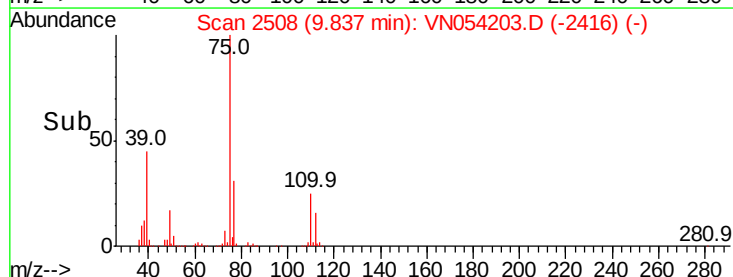
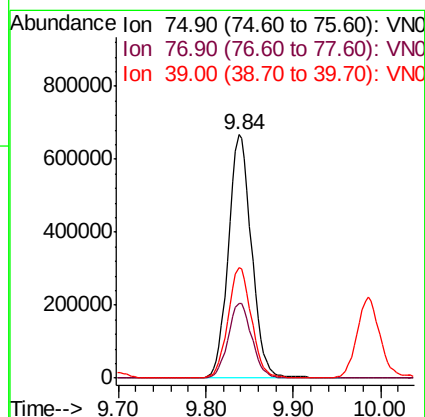
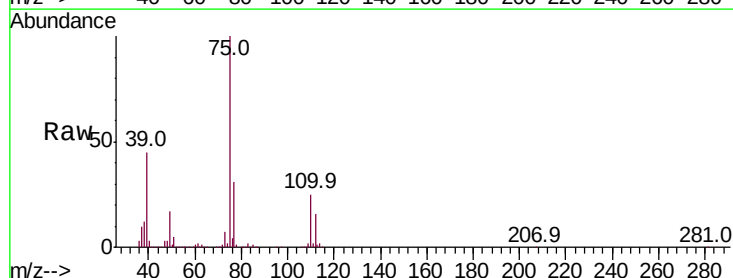
Tgt Ion: 75 Resp: 1231500

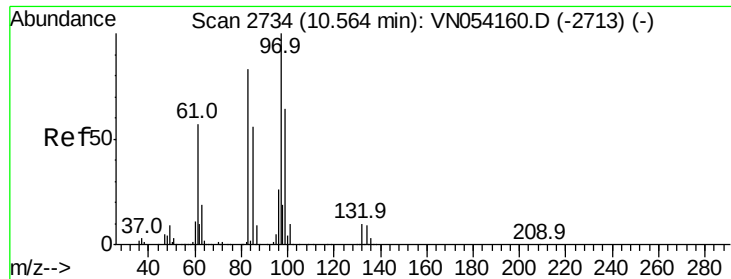
Ion Ratio Lower Upper

75 100

77 30.7 25.4 38.0

39 45.3 37.2 55.8





#55

1,1,2-Trichloroethane

Concen: 51.484 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 97 Resp: 712028

Ion Ratio Lower Upper

97 100

83 84.9 66.6 100.0

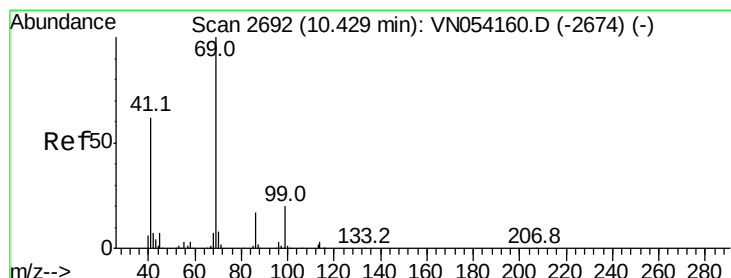
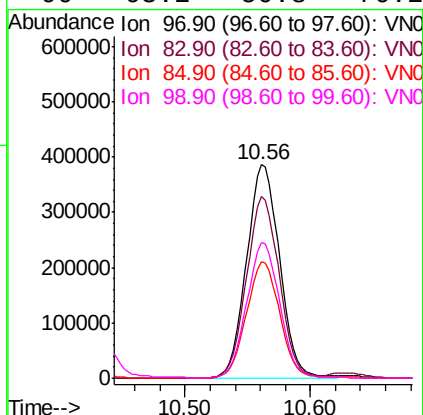
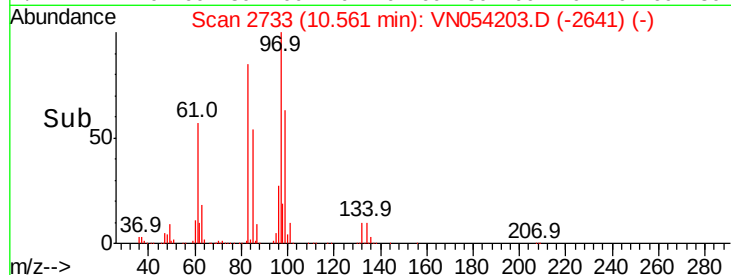
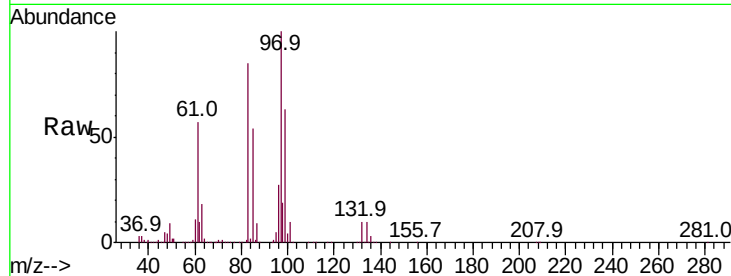
85 54.4 44.4 66.6

99 63.2 50.8 76.2

Manual Integrations
APPROVED

MMDadoda

3/14/2019 10:26:58 AM



#56

Ethyl methacrylate

Concen: 53.578 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

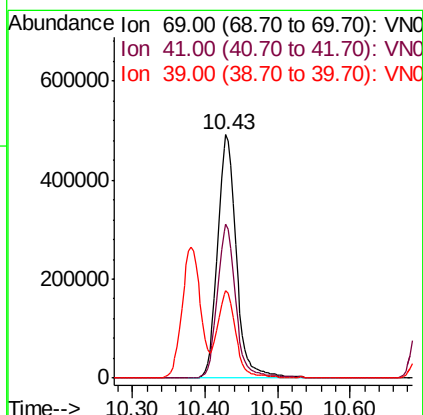
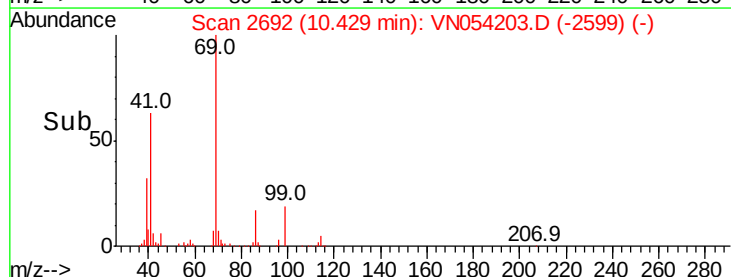
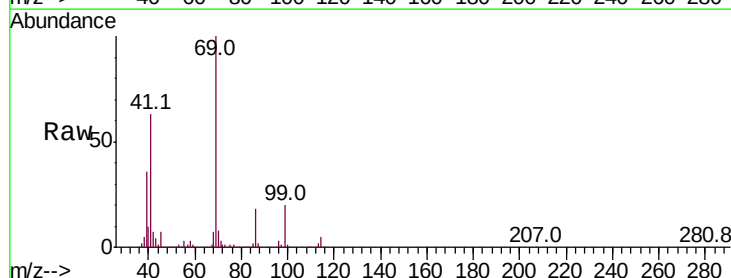
Tgt Ion: 69 Resp: 883531

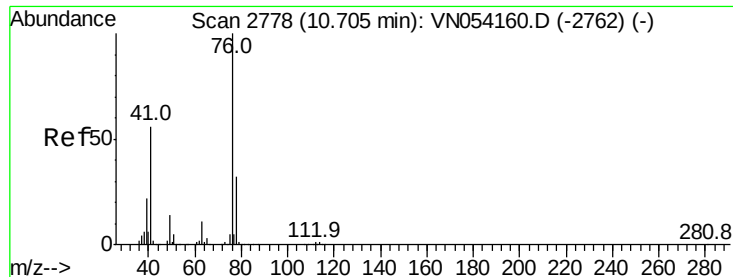
Ion Ratio Lower Upper

69 100

41 61.1 49.4 74.2

39 34.9 28.3 42.5





#57

1,3-Dichloropropane

Concen: 51.188 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

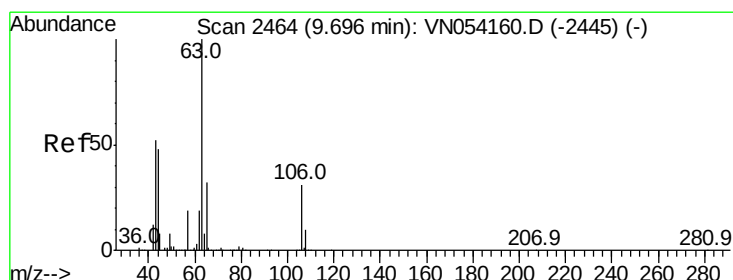
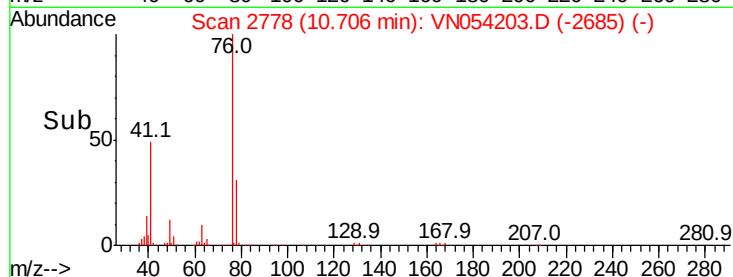
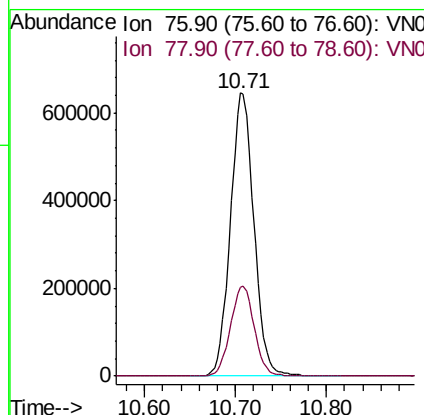
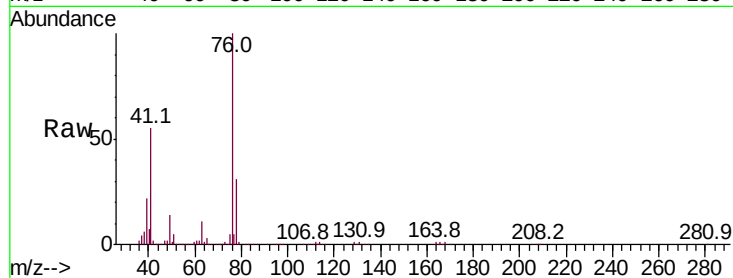
Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion: 76 Resp: 1157562

Ion	Ratio	Lower	Upper
76	100		
78	32.4	25.7	38.5

Manual Integrations
APPROVED

MMDadoda
3/14/2019 10:26:58 AM



#58

2-Chloroethyl Vinyl ether

Concen: 235.994 ug/l

RT: 9.70 min Scan# 2464

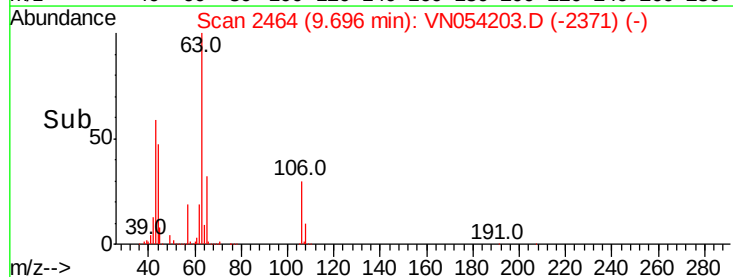
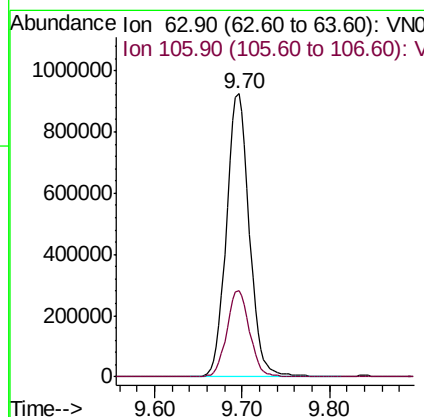
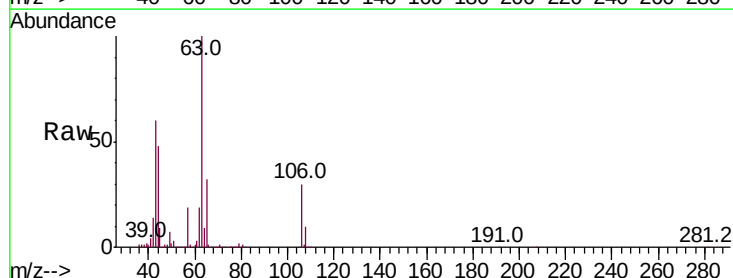
Delta R.T. 0.00 min

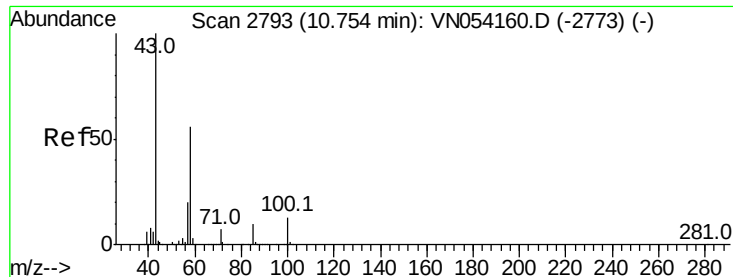
Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

Tgt Ion: 63 Resp: 1681139

Ion	Ratio	Lower	Upper
63	100		
106	30.4	24.4	36.6





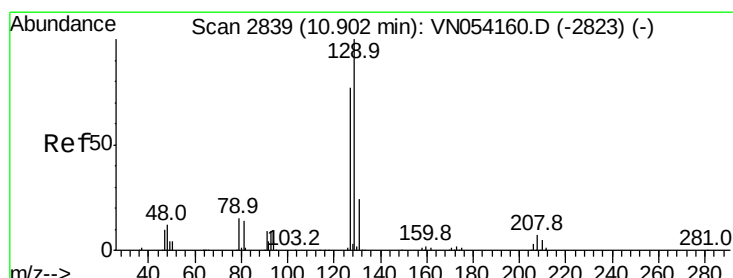
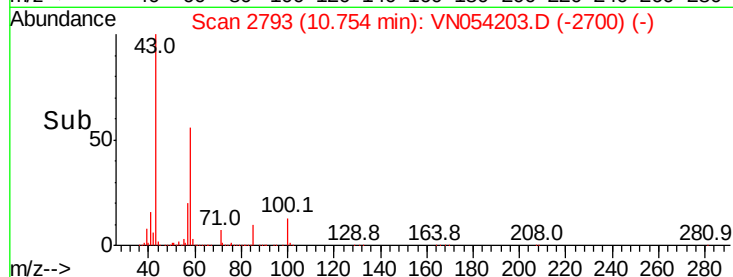
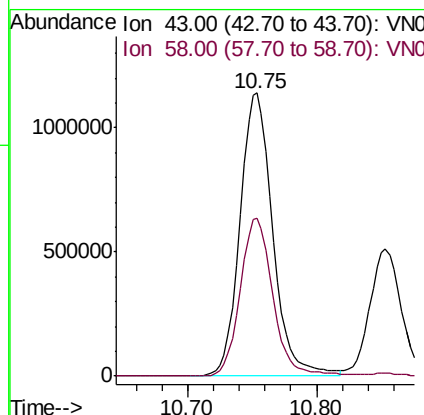
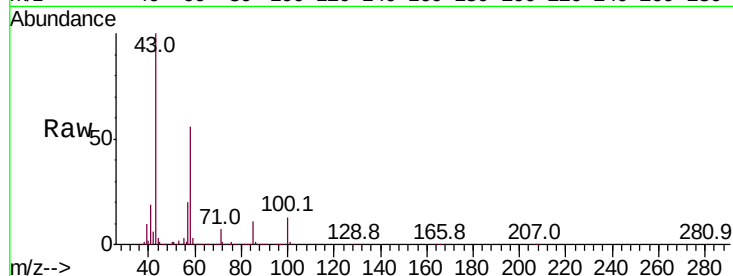
#59
2-Hexanone
Concen: 270.369 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN054203.D
Acq: 13 Mar 2019 9:47

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 2004410
Ion Ratio Lower Upper
43 100
58 56.1 28.0 83.9

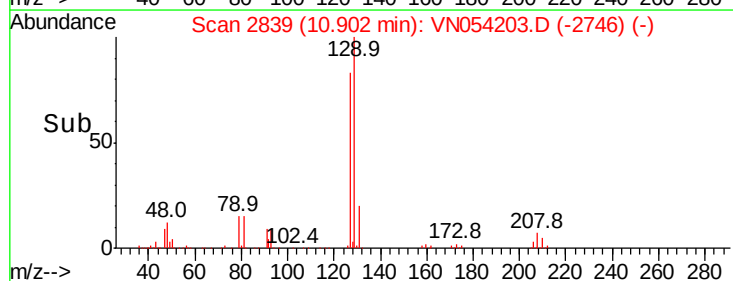
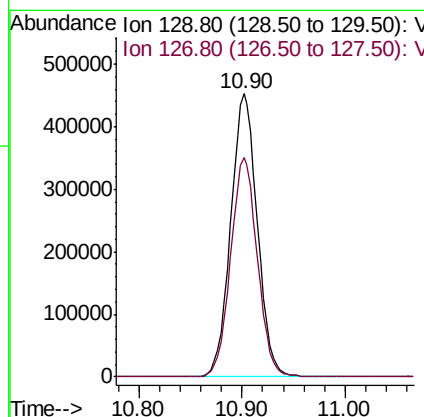
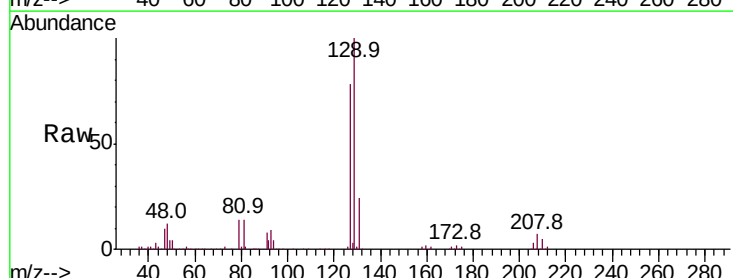
Manual Integrations
APPROVED

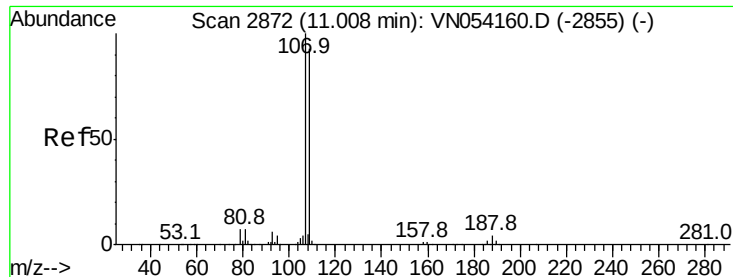
MMDadoda
3/14/2019 10:26:58 AM



#60
Dibromochloromethane
Concen: 52.121 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN054203.D
Acq: 13 Mar 2019 9:47

Tgt Ion: 129 Resp: 811349
Ion Ratio Lower Upper
129 100
127 77.9 38.6 115.8





#61

1,2-Dibromoethane

Concen: 51.931 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 107 Resp: 729855

Ion Ratio Lower Upper

107 100

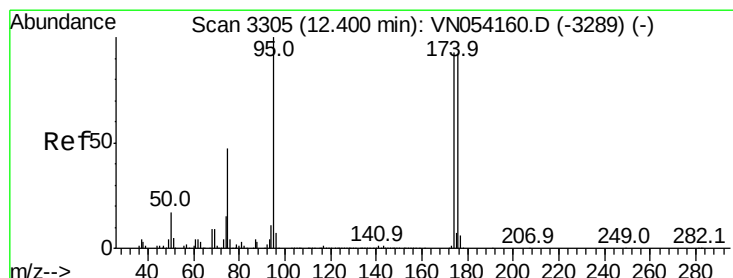
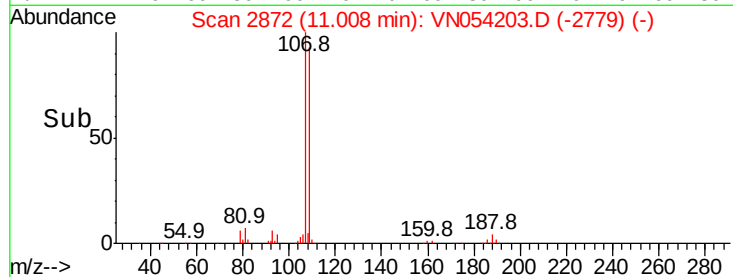
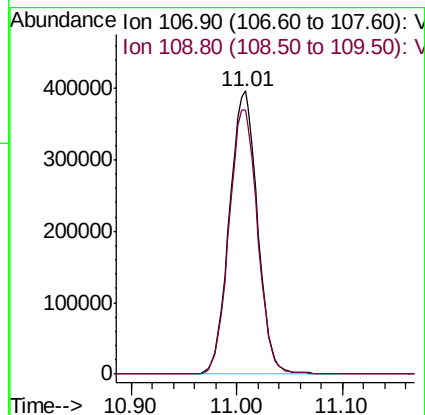
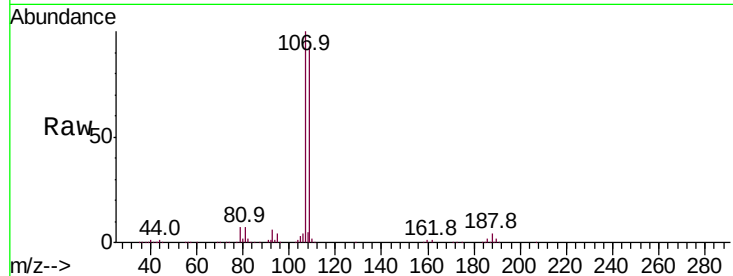
109 95.0 75.9 113.9

Manual Integrations

APPROVED

MMDadoda

3/14/2019 10:26:58 AM



#62

4-Bromofluorobenzene

Concen: 51.226 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

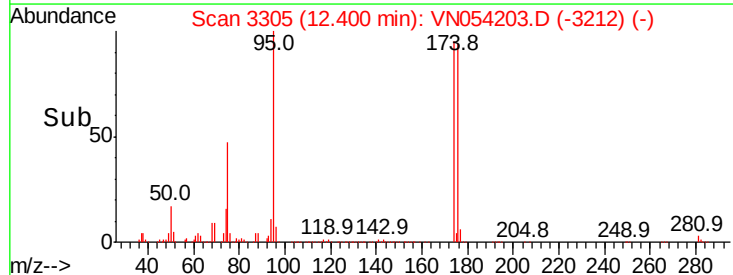
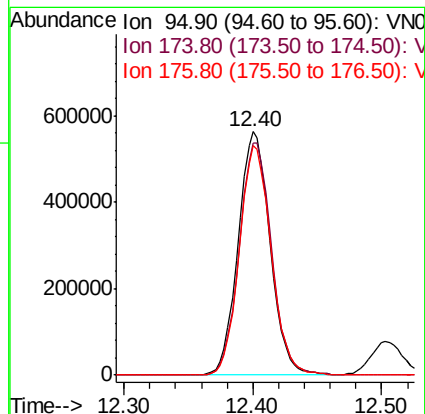
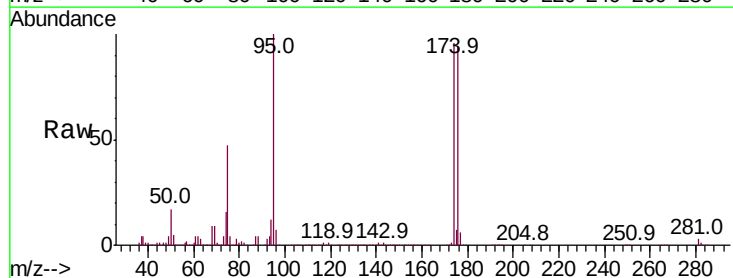
Tgt Ion: 95 Resp: 967764

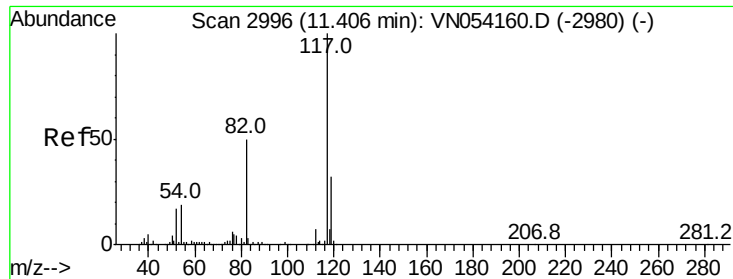
Ion Ratio Lower Upper

95 100

174 96.7 0.0 191.0

176 94.1 0.0 187.4





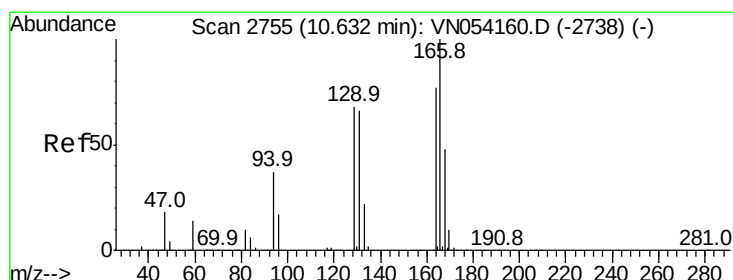
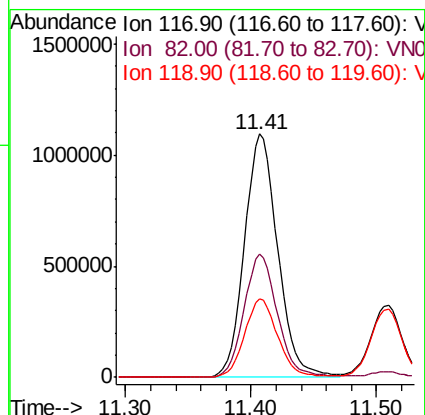
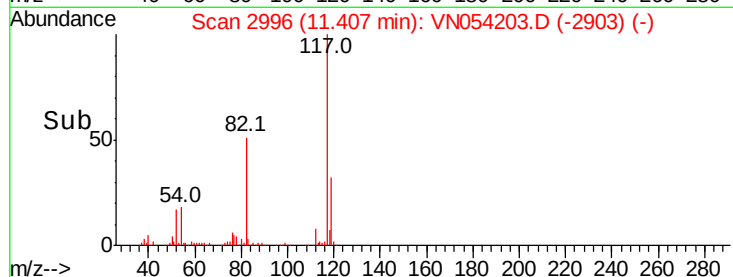
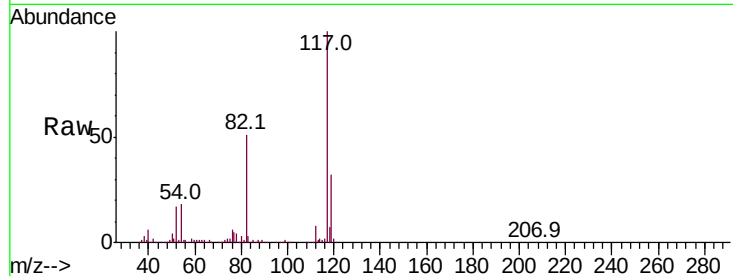
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054203.D
Acq: 13 Mar 2019 9:47

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	50.6	40.0	60.0
119	32.2	25.8	38.6

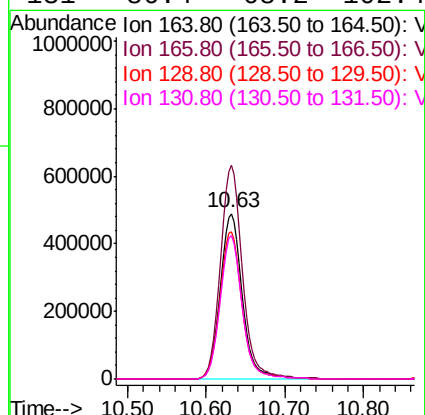
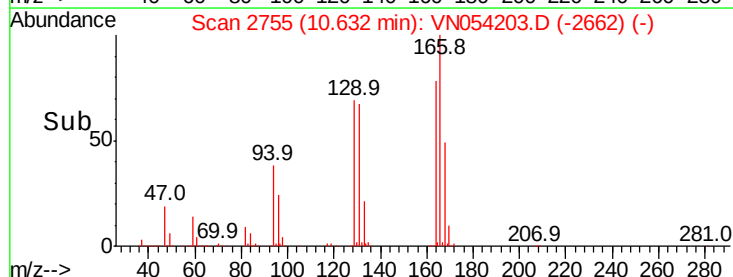
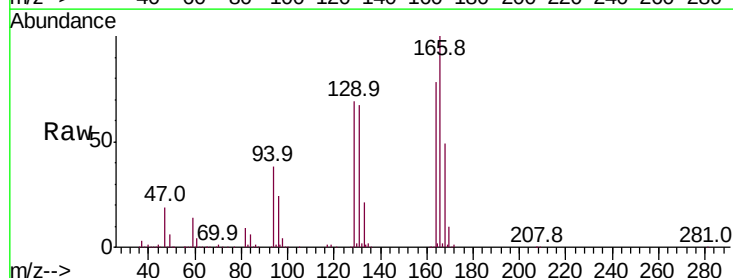
Manual Integrations
APPROVED

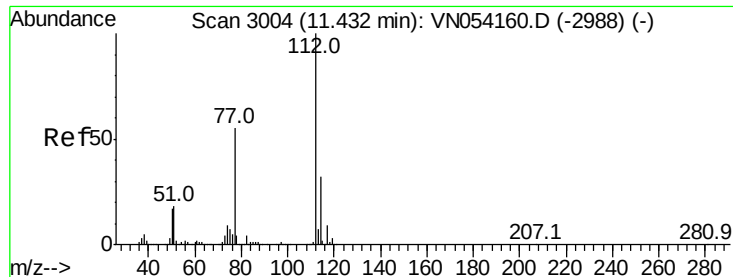
MMDadoda
3/14/2019 10:26:58 AM



#64
Tetrachloroethene
Concen: 48.355 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN054203.D
Acq: 13 Mar 2019 9:47

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.9	103.9	155.9
129	89.2	71.1	106.7
131	86.4	68.2	102.4





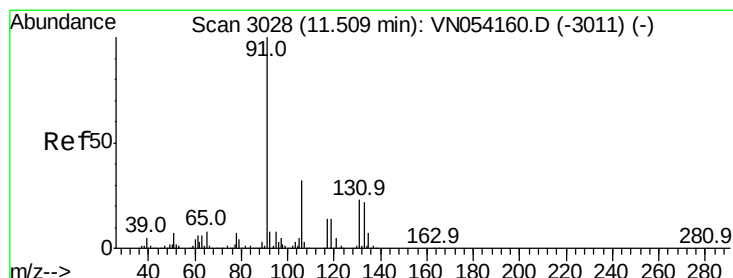
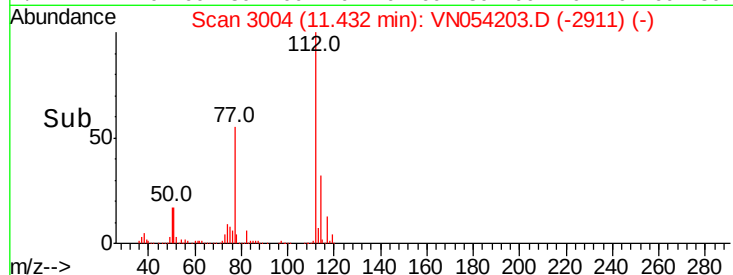
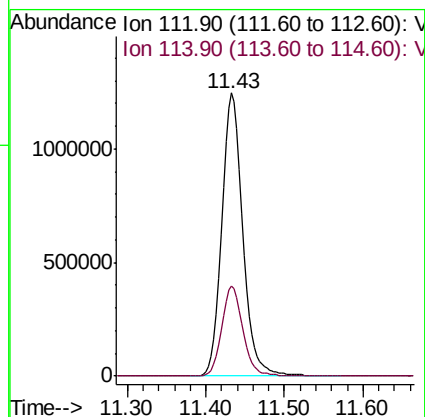
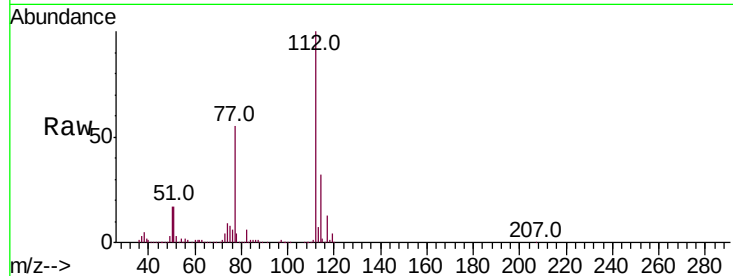
#65
Chlorobenzene
Concen: 51.432 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN054203.D
Acq: 13 Mar 2019 9:47

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 2282715
Ion Ratio Lower Upper
112 100
114 31.9 25.9 38.9

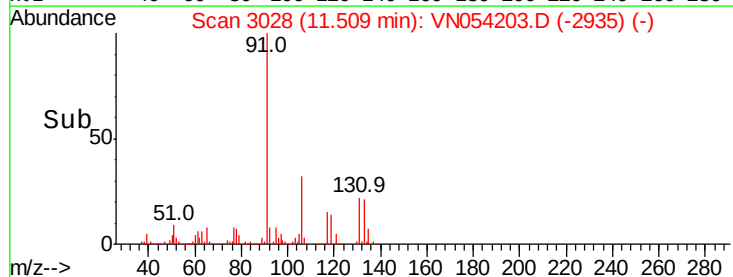
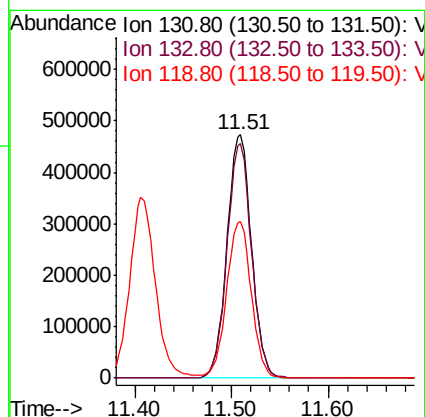
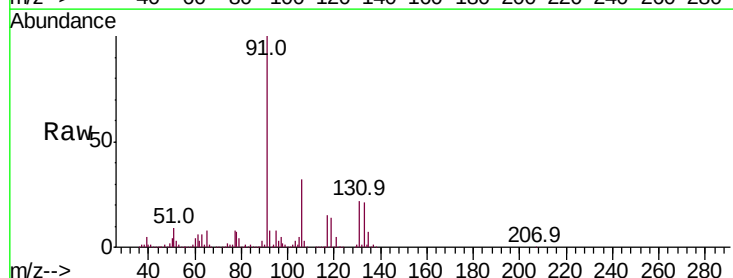
Manual Integrations
APPROVED

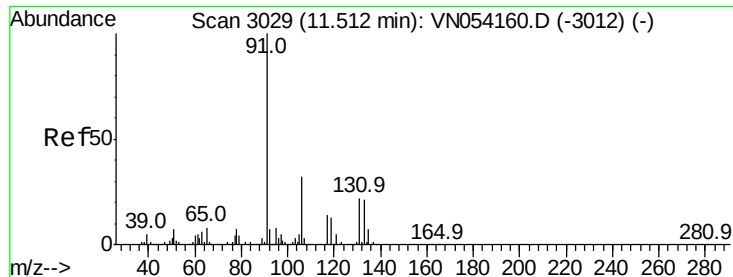
MMDadoda
3/14/2019 10:26:58 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 51.515 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN054203.D
Acq: 13 Mar 2019 9:47

Tgt Ion:131 Resp: 830582
Ion Ratio Lower Upper
131 100
133 96.3 47.6 142.9
119 65.0 32.4 97.0





#67

Ethyl Benzene

Concen: 51.468 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 3786648

Ion Ratio Lower Upper

91 100

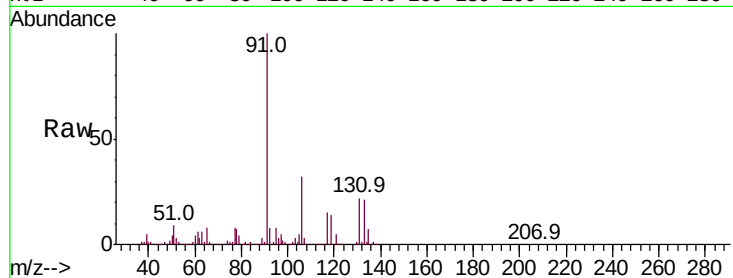
106 32.0 25.5 38.3

Manual Integrations

APPROVED

MMDadoda

3/14/2019 10:26:58 AM



Abundance Ion 91.00 (90.70 to 91.70): VN054160.D (-3012) (-)

Ion 106.00 (105.70 to 106.70): VN054160.D (-3012) (-)

3000000

2000000

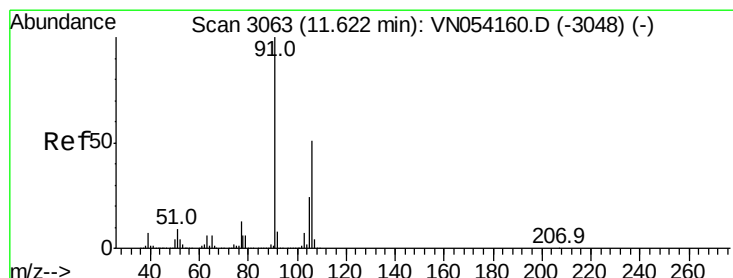
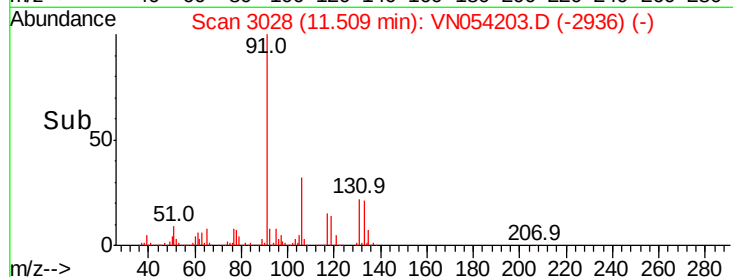
1000000

0

11.51

11.60

Time-->



#68

m/p-Xylenes

Concen: 104.426 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN054203.D

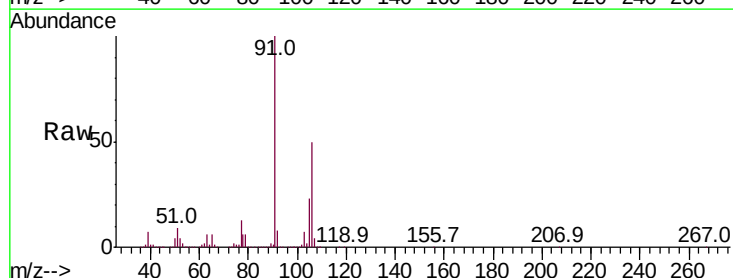
Acq: 13 Mar 2019 9:47

Tgt Ion: 106 Resp: 3002819

Ion Ratio Lower Upper

106 100

91 199.9 159.4 239.2



Abundance Ion 106.00 (105.70 to 106.70): VN054160.D (-3048) (-)

Ion 91.00 (90.70 to 91.70): VN054160.D (-3048) (-)

3000000

2000000

1000000

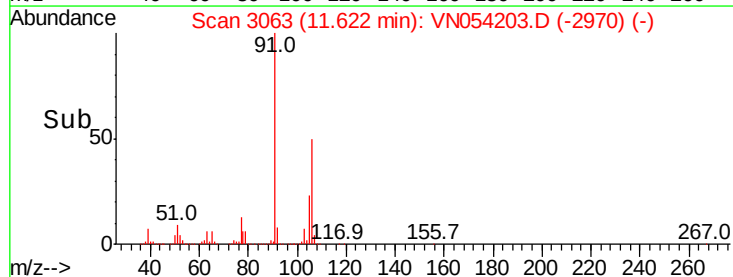
0

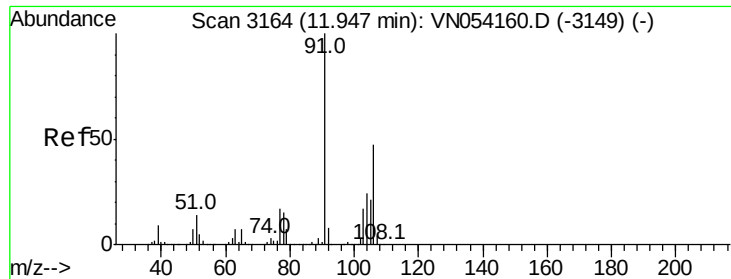
11.62

11.70

11.80

Time-->





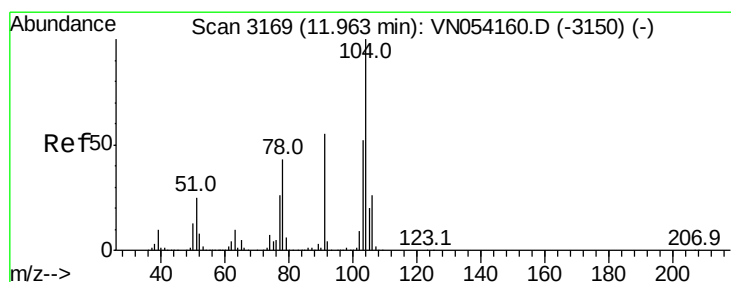
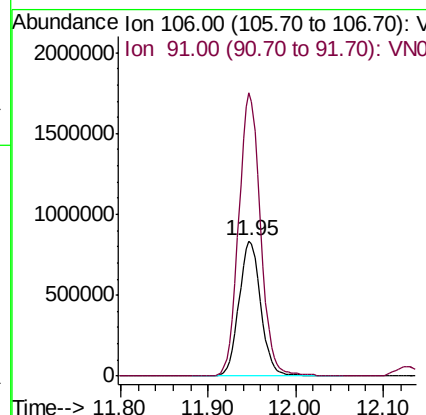
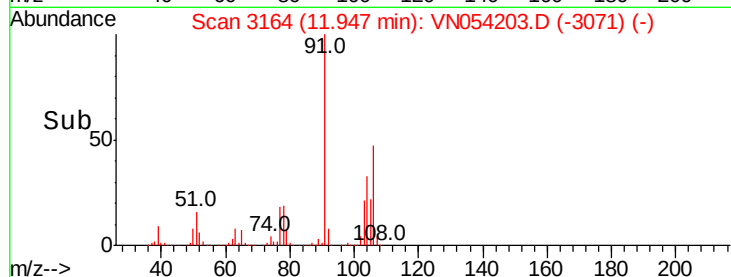
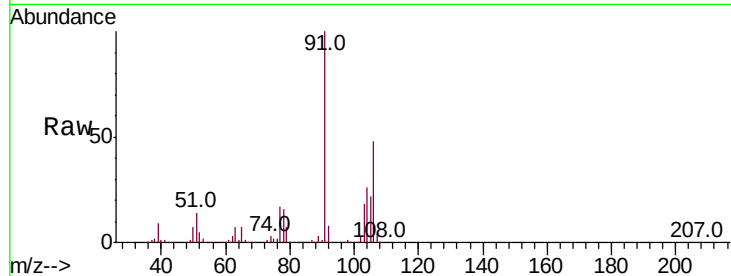
#69
o-Xylene
Concen: 51.542 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN054203.D
Acq: 13 Mar 2019 9:47

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:106 Resp: 1444829
Ion Ratio Lower Upper
106 100
91 209.8 105.7 317.1

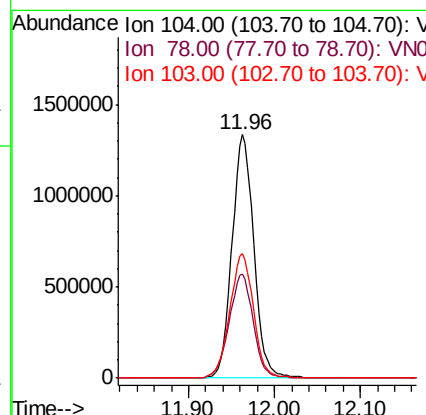
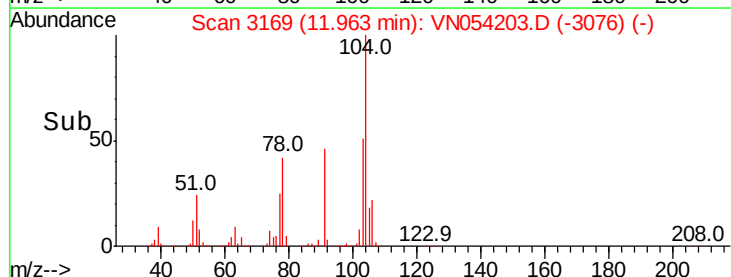
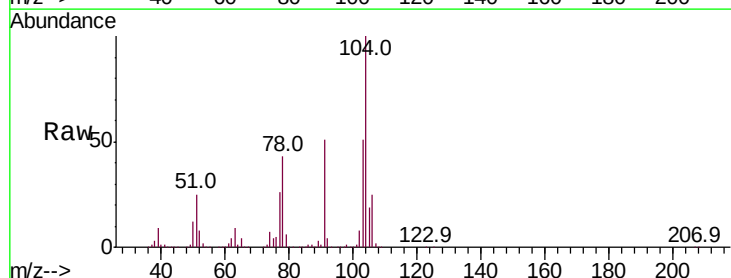
Manual Integrations
APPROVED

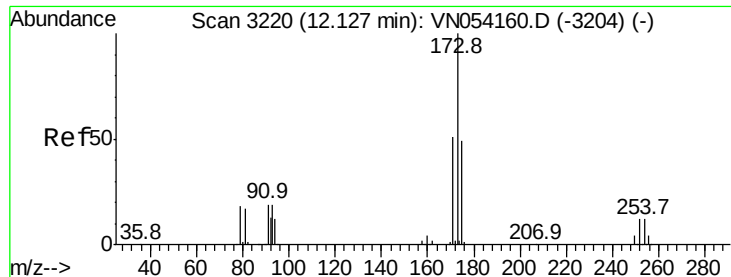
MMDadoda
3/14/2019 10:26:58 AM



#70
Styrene
Concen: 53.432 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN054203.D
Acq: 13 Mar 2019 9:47

Tgt Ion:104 Resp: 2349060
Ion Ratio Lower Upper
104 100
78 47.2 38.2 57.2
103 55.5 44.4 66.6





#71

Bromoform

Concen: 45.231 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:173 Resp: 553021

Ion Ratio Lower Upper

173 100

175 48.6 24.4 73.2

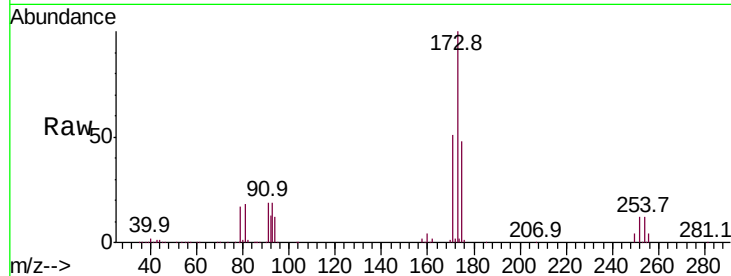
254 0.2 0.1 0.1#

Manual Integrations

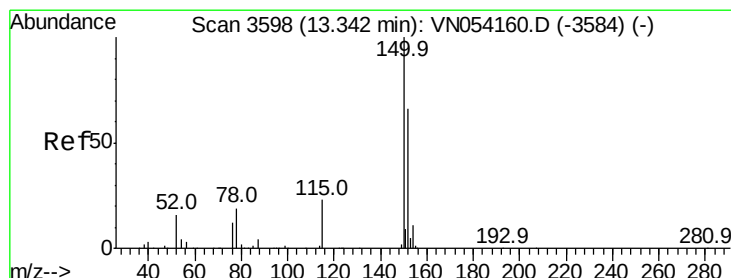
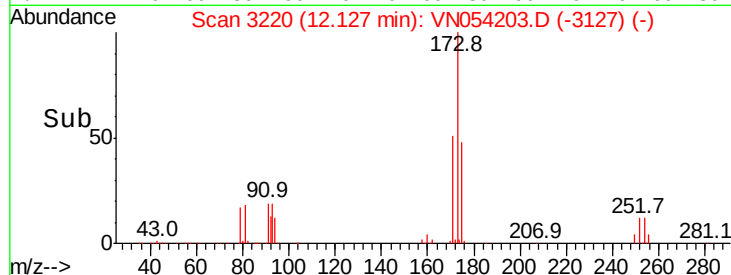
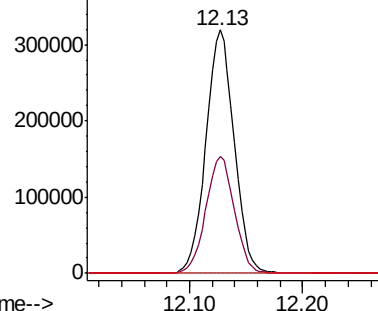
APPROVED

MMDadoda

3/14/2019 10:26:58 AM



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

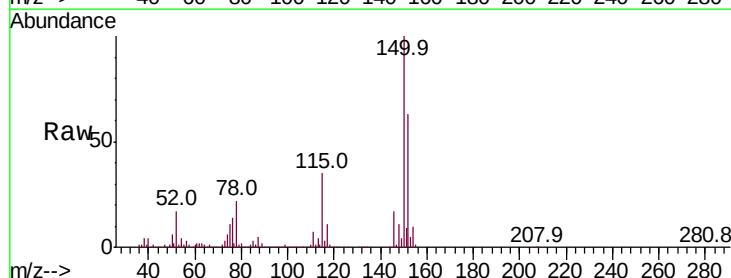
Tgt Ion:152 Resp: 1027130

Ion Ratio Lower Upper

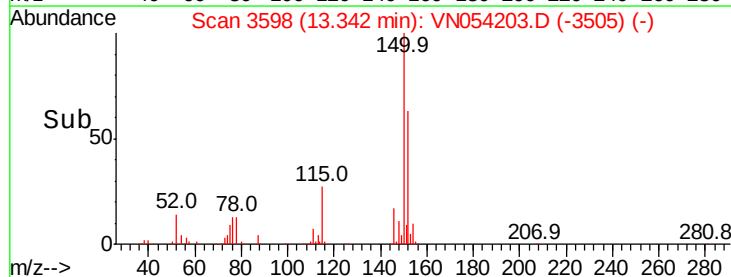
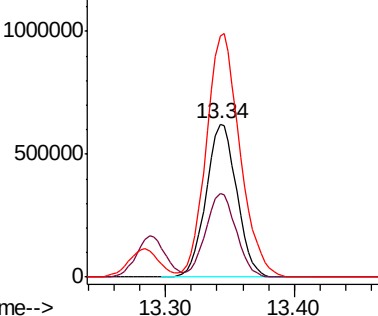
152 100

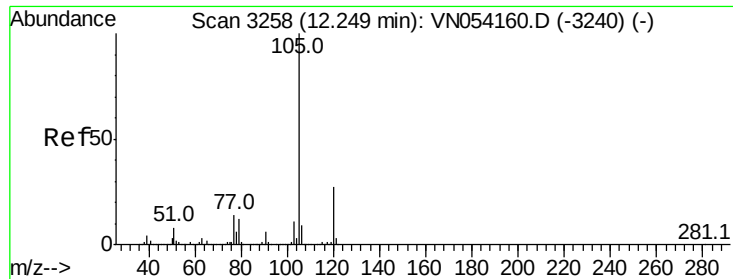
115 54.5 27.2 81.6

150 174.8 0.0 349.2



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





#73

Isopropylbenzene

Concen: 47.297 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 3886740

Ion Ratio Lower Upper

105 100

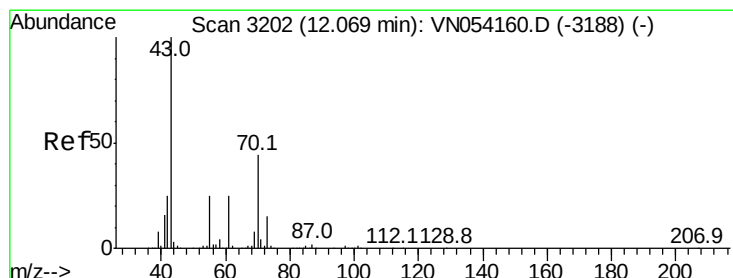
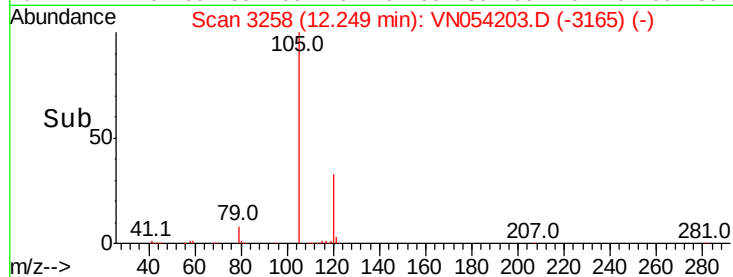
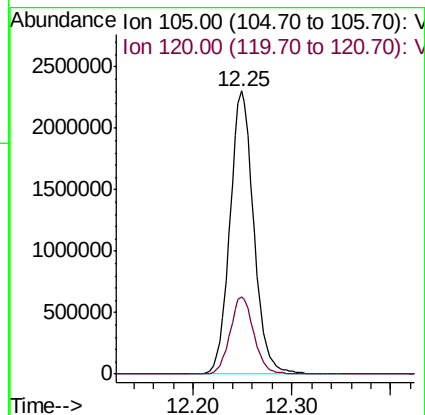
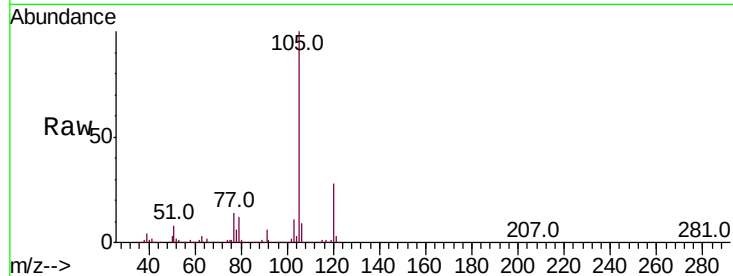
120 27.4 13.8 41.3

Manual Integrations

APPROVED

MMDadoda

3/14/2019 10:26:58 AM



#74

N-ethyl acetate

Concen: 49.971 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

Tgt Ion: 43 Resp: 911498

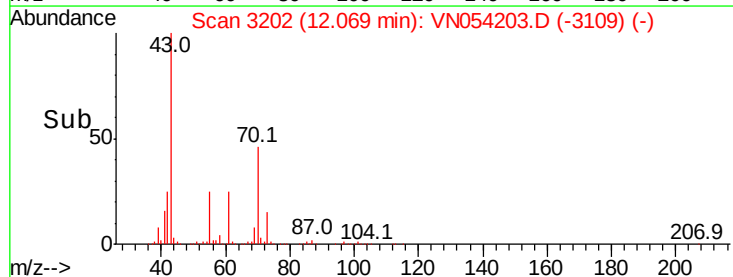
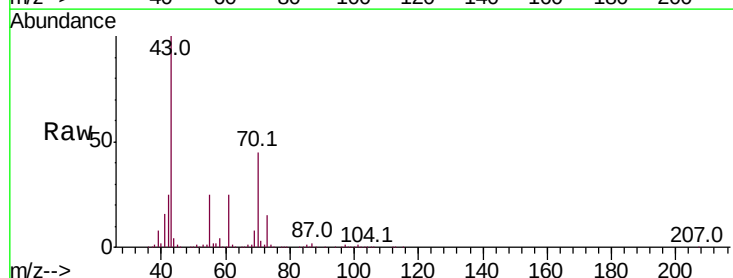
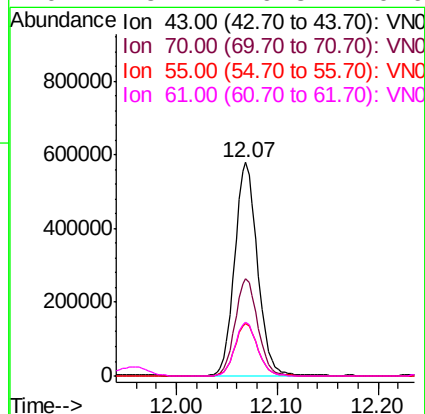
Ion Ratio Lower Upper

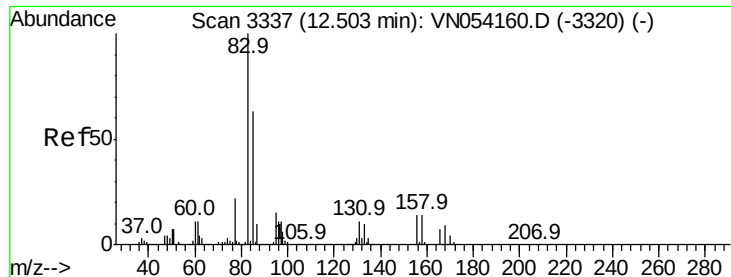
43 100

70 45.5 35.4 53.0

55 25.0 19.8 29.6

61 25.2 19.8 29.6





#75

1,1,2,2-Tetrachloroethane

Concen: 47.655 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 834346
Ion Ratio Lower Upper

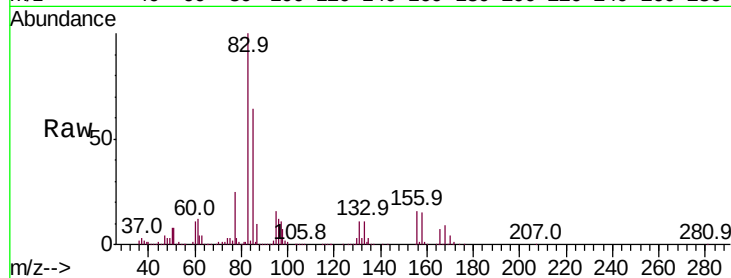
83 100

131 11.5 5.8 17.4

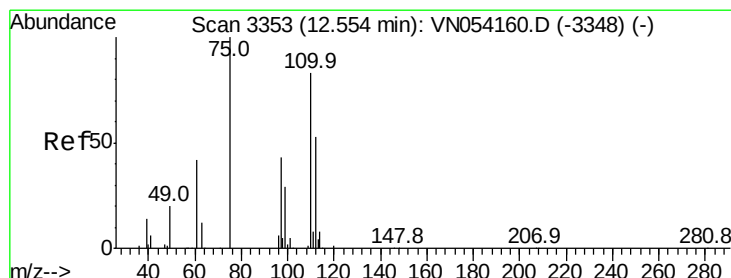
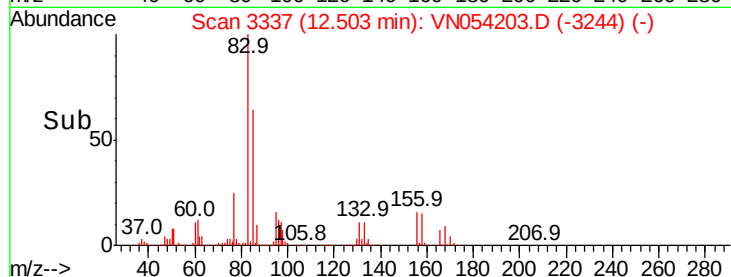
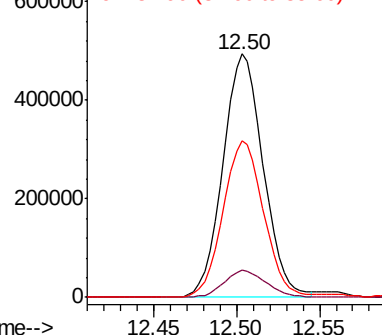
85 64.8 32.2 96.6

Manual Integrations
APPROVED

MMDadoda
3/14/2019 10:26:58 AM



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



#76

1,2,3-Trichloropropane

Concen: 45.351 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

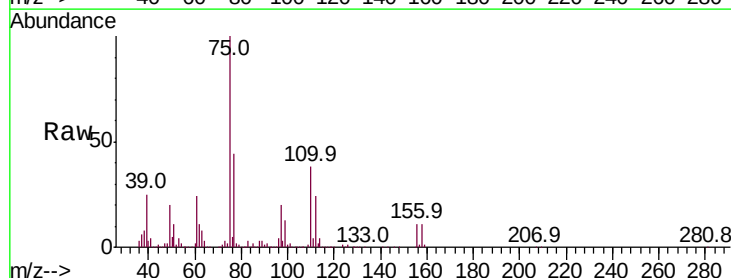
Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

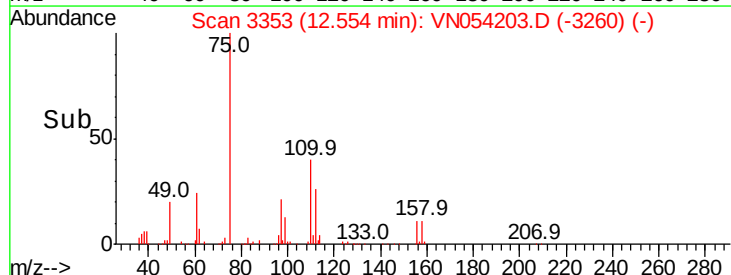
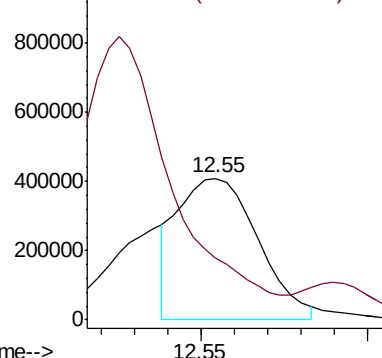
Tgt Ion: 75 Resp: 684995
Ion Ratio Lower Upper

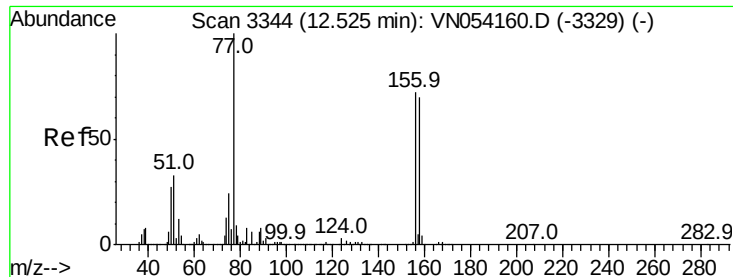
75 100

77 0.0 0.0 0.0



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





#77

Bromobenzene

Concen: 47.972 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:156 Resp: 1043155

Ion Ratio Lower Upper

156 100

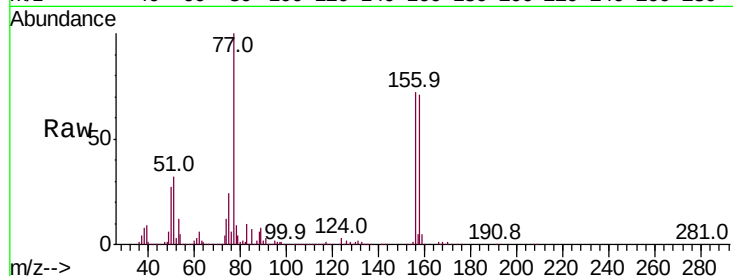
77 158.9 81.5 244.4

158 97.5 49.0 147.2

Manual Integrations
APPROVED

MMDadoda

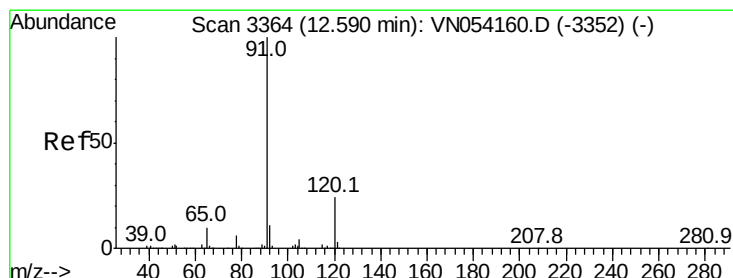
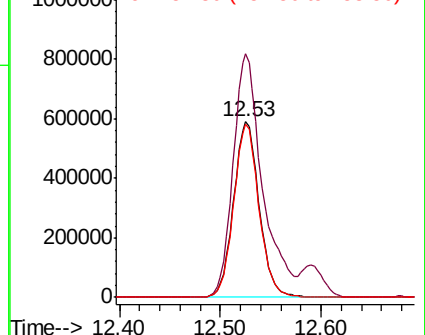
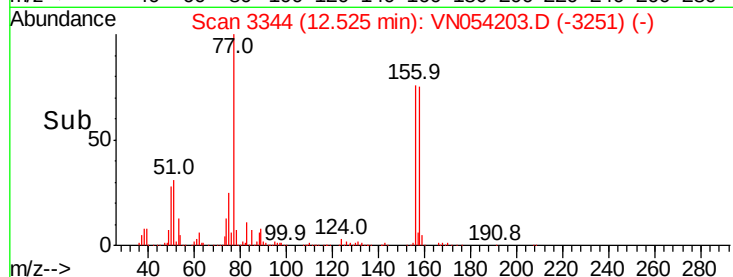
3/14/2019 10:26:58 AM



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: 49.295 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN054203.D

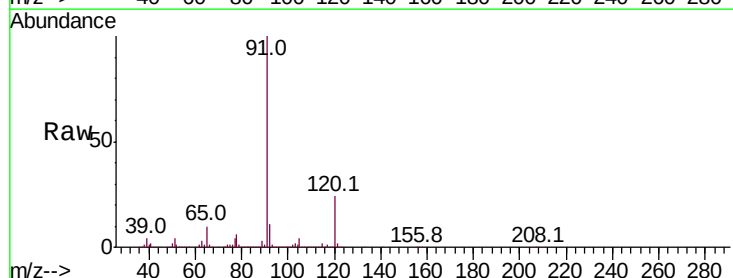
Acq: 13 Mar 2019 9:47

Tgt Ion: 91 Resp: 4395523

Ion Ratio Lower Upper

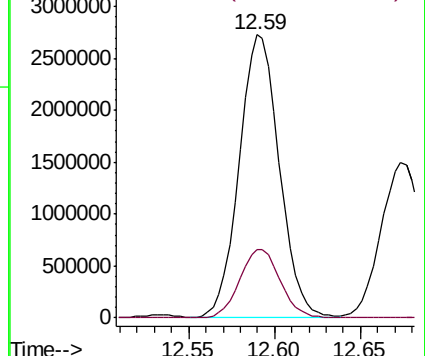
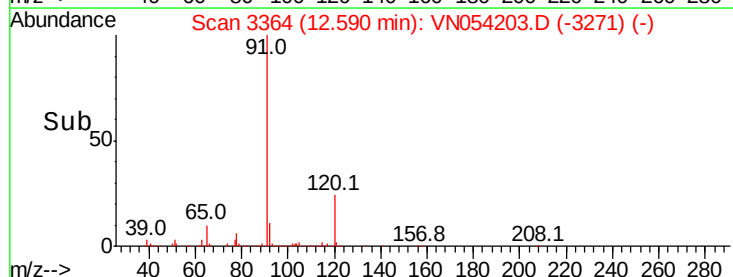
91 100

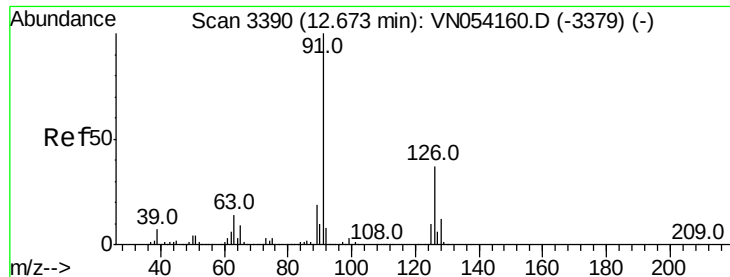
120 24.7 12.3 36.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 47.953 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 2570952

Ion Ratio Lower Upper

91 100

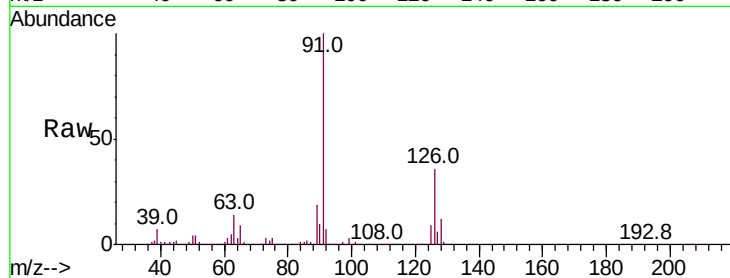
126 37.2 18.7 56.1

Manual Integrations

APPROVED

MMDadoda

3/14/2019 10:26:58 AM



Abundance Ion 91.00 (90.70 to 91.70): VN054160.D (-3379) (-)

Ion 125.90 (125.60 to 126.60): VN054160.D (-3379) (-)

12.67

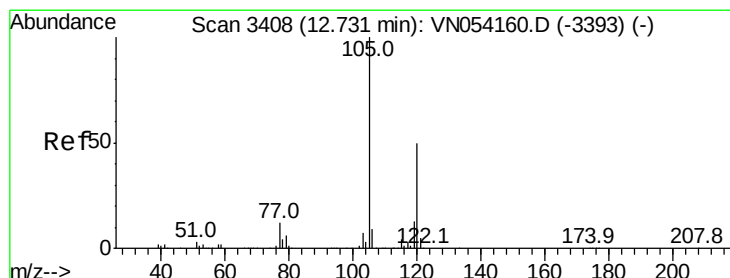
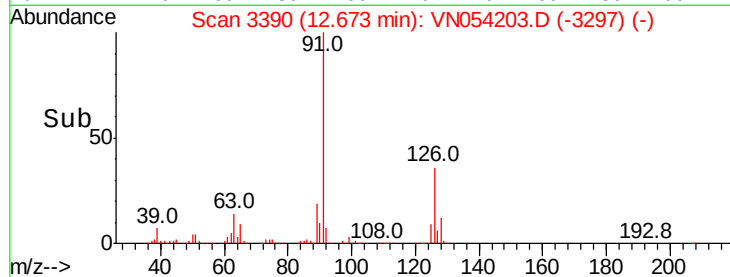
1500000

1000000

500000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 47.878 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN054203.D

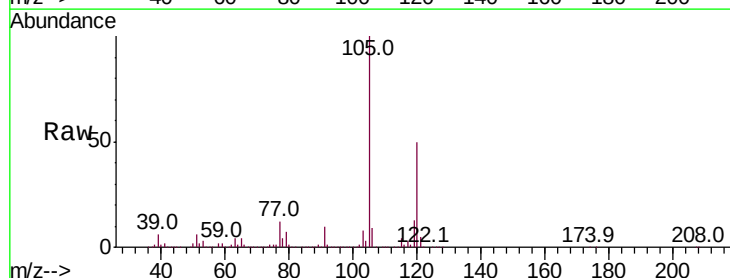
Acq: 13 Mar 2019 9:47

Tgt Ion:105 Resp: 3272679

Ion Ratio Lower Upper

105 100

120 49.9 25.0 75.0



Abundance Ion 105.00 (104.70 to 105.70): VN054160.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN054160.D (-3393) (-)

12.73

2000000

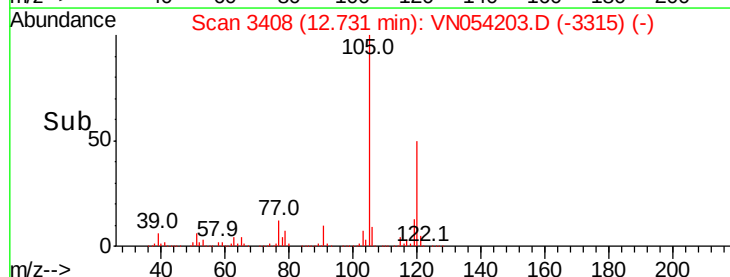
1500000

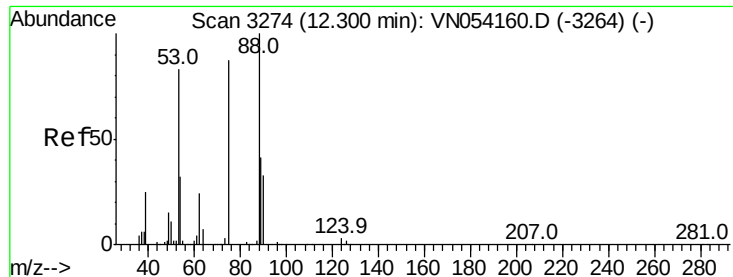
1000000

500000

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 46.628 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

Instrument :

MSVOA_N

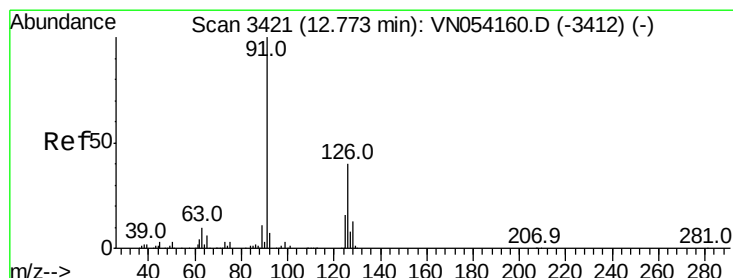
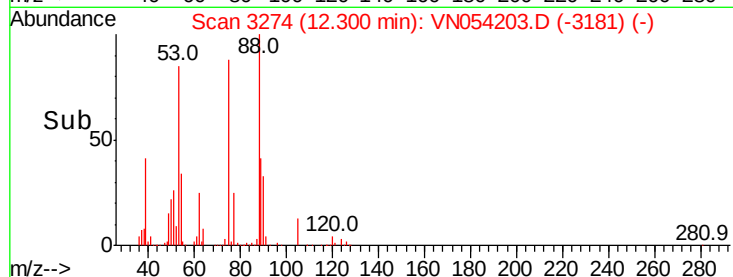
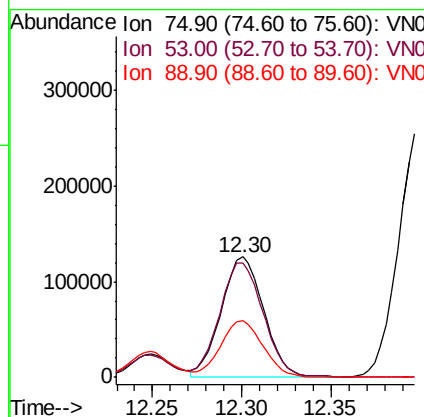
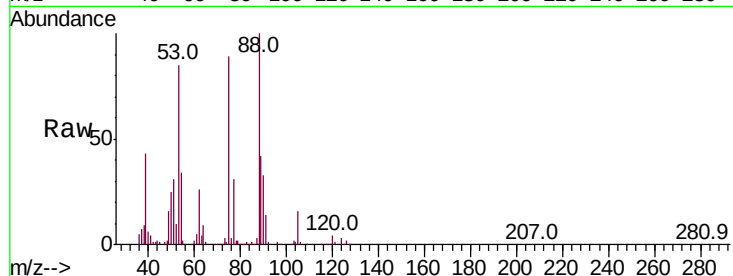
ClientSampleId :

VSTDCCC050

Tot Ion:	75	Resp:	206027
Ion Ratio	Lower	Upper	
75	100		
53	100.4	76.2	114.2
89	48.1	39.2	58.8

Manual Integrations
APPROVED

MMDadoda
3/14/2019 10:26:58 AM



#82

4-Chlorotoluene

Concen: 49.270 ug/l

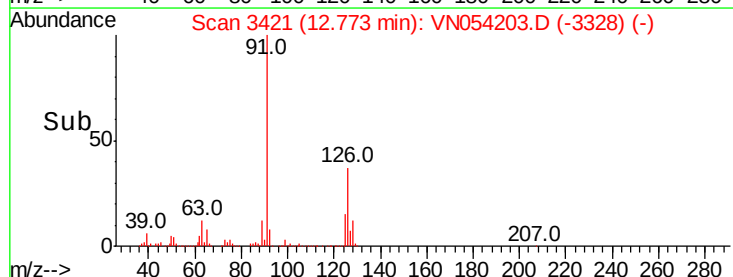
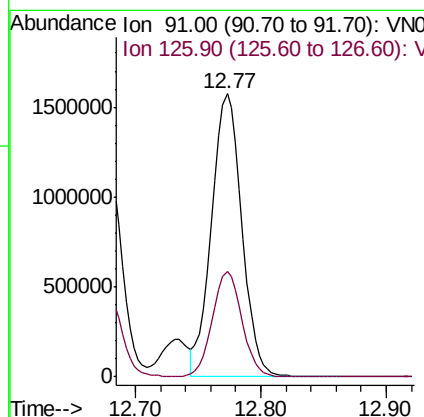
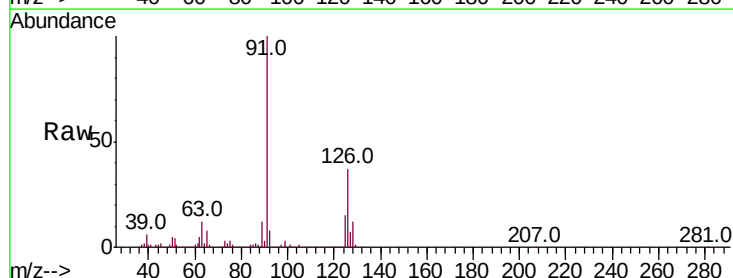
RT: 12.77 min Scan# 3421

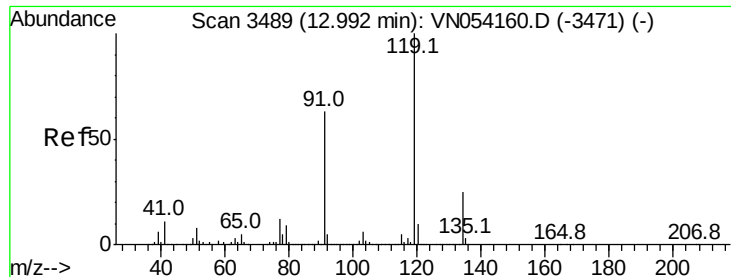
Delta R.T. 0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

Tgt Ion:	91	Resp:	2637655
Ion Ratio	Lower	Upper	
91	100		
126	36.5	18.1	54.1





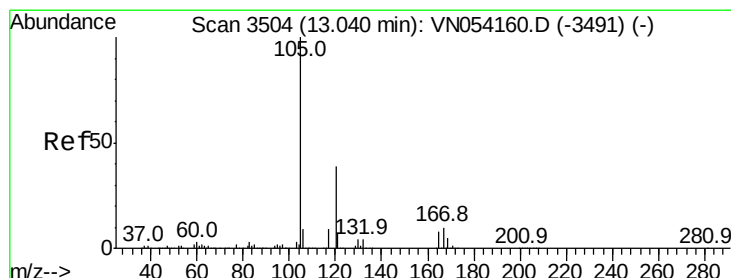
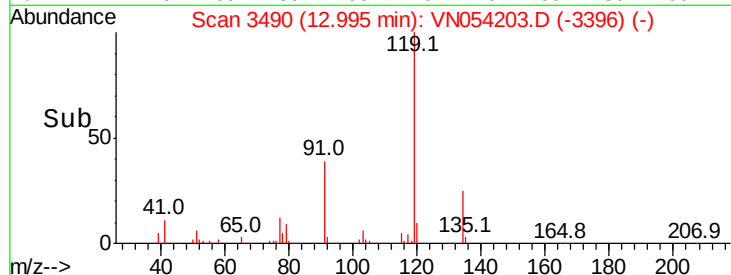
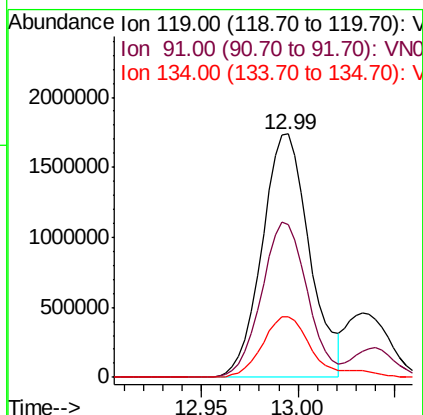
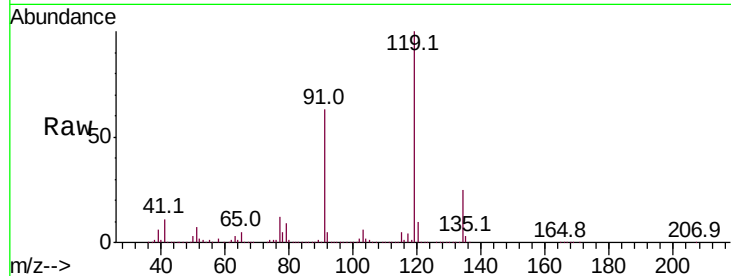
#83
 tert-Butylbenzene
 Concen: 47.104 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN054203.D
 Acq: 13 Mar 2019 9:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
119	100		
91	61.3	30.9	92.8
134	26.6	13.2	39.6

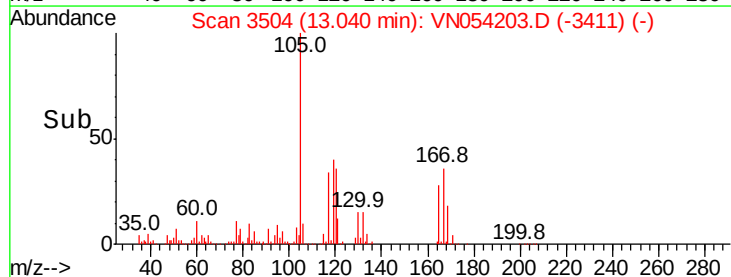
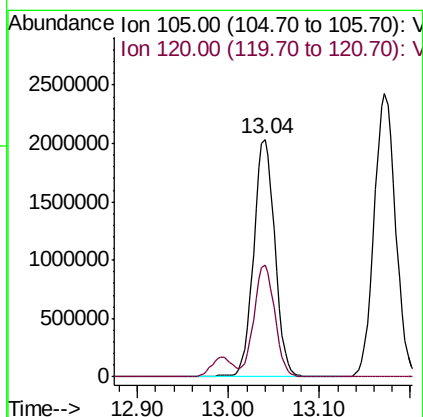
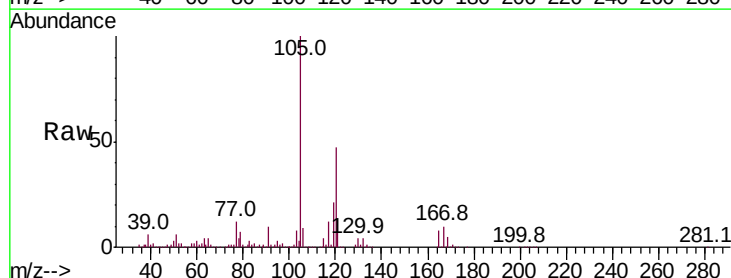
Manual Integrations
 APPROVED

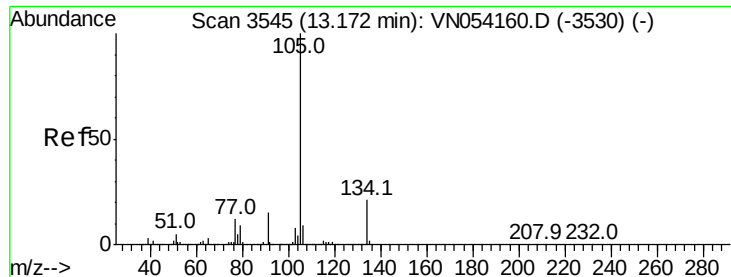
MMDadoda
 3/14/2019 10:26:58 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 49.058 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN054203.D
 Acq: 13 Mar 2019 9:47

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.8	23.4	70.3





#85

sec-Butylbenzene

Concen: 48.573 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 3963178

Ion Ratio Lower Upper

105 100

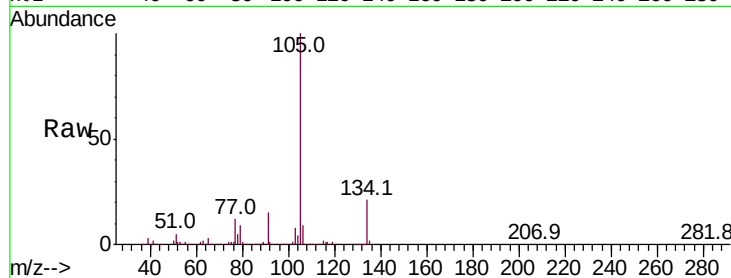
134 21.2 10.7 32.1

Manual Integrations

APPROVED

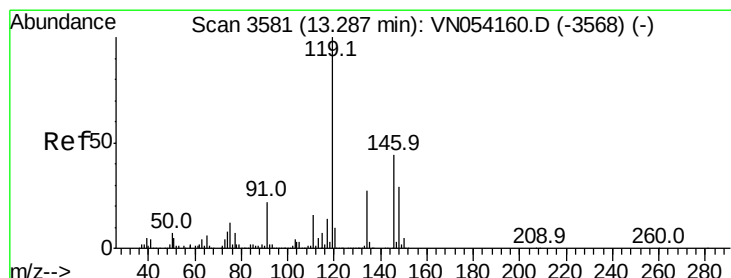
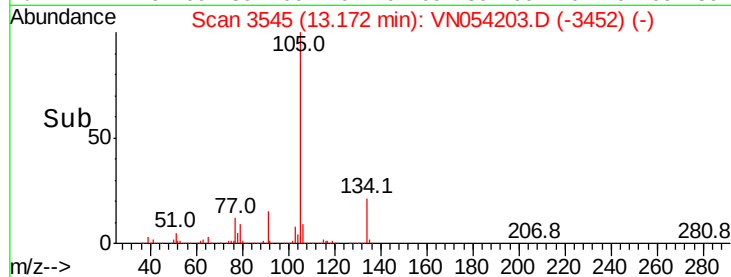
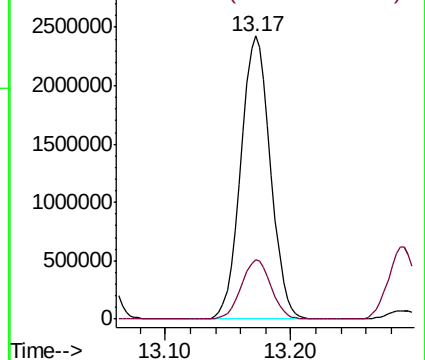
MMDadoda

3/14/2019 10:26:58 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 49.772 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

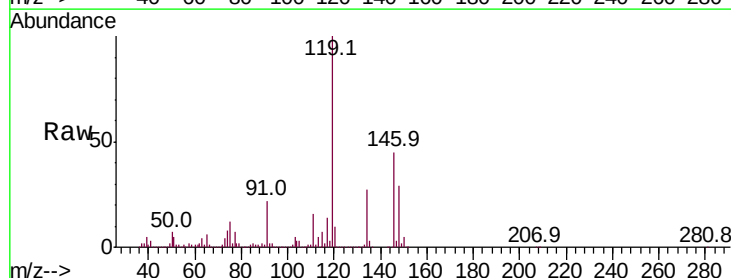
Tgt Ion:119 Resp: 3562782

Ion Ratio Lower Upper

119 100

134 27.4 13.6 40.8

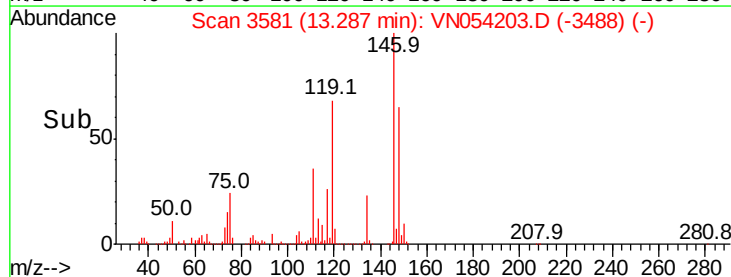
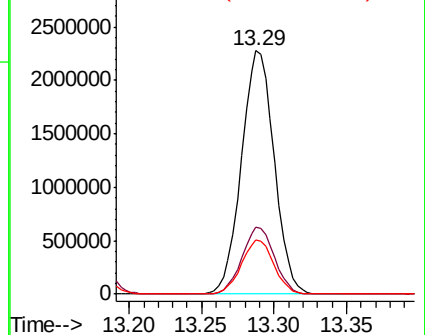
91 21.9 11.1 33.3

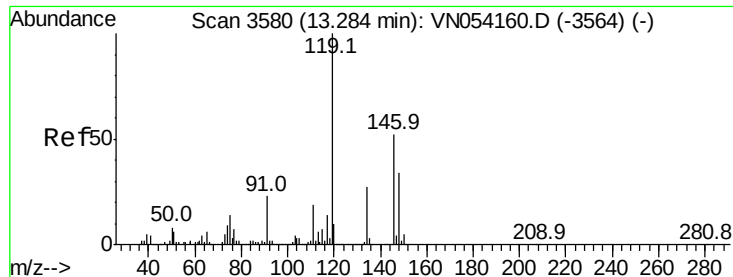


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 51.001 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

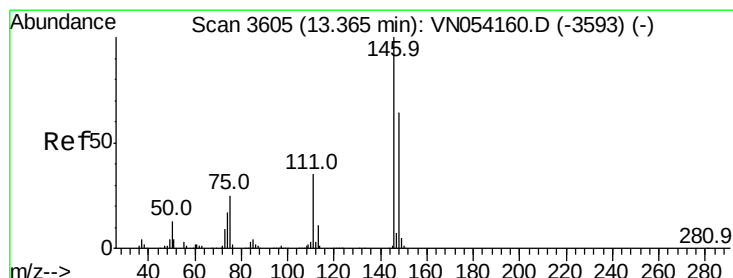
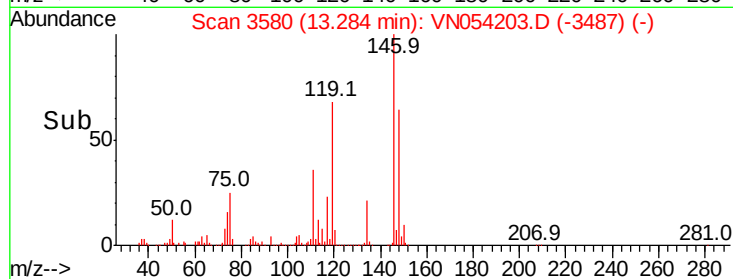
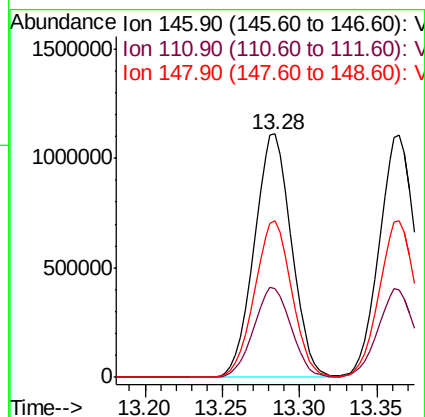
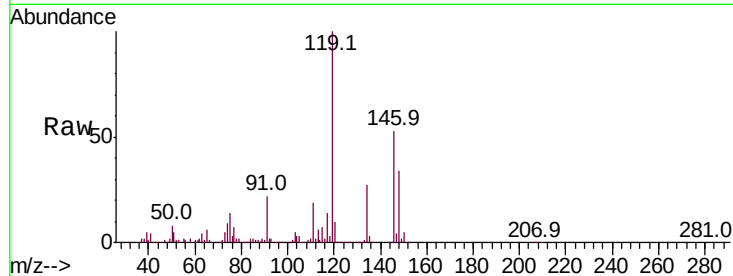
Instrument :
MSVOA_N

ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.1	18.8	56.3
148	64.1	32.2	96.6

Manual Integrations
APPROVED

MMDadoda
3/14/2019 10:26:58 AM



#88

1,4-Dichlorobenzene

Concen: 50.681 ug/l

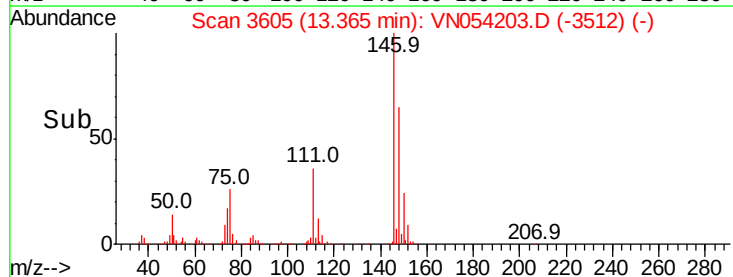
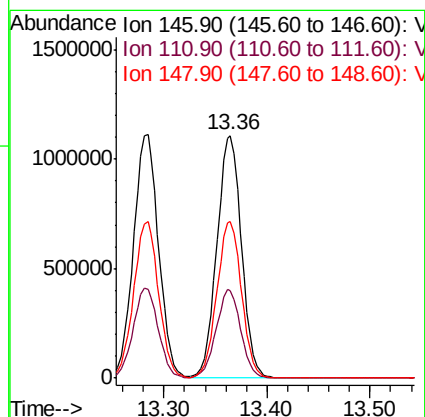
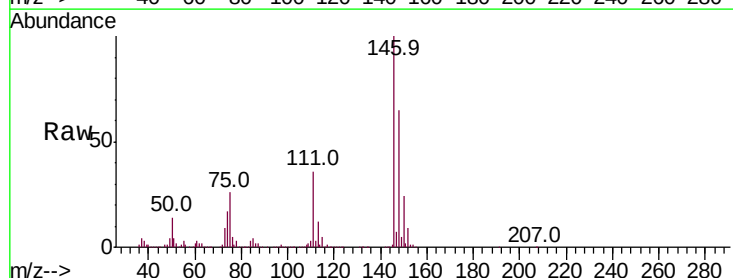
RT: 13.36 min Scan# 3605

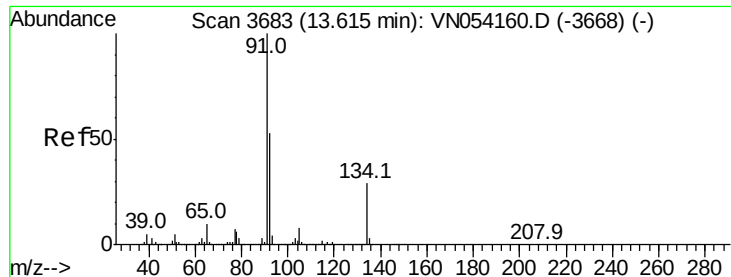
Delta R.T. 0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.4	18.1	54.1
148	64.9	32.0	96.0





#89

n-Butylbenzene

Concen: 54.732 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. -0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 2976765

Ion Ratio Lower Upper

91 100

92 52.4 26.2 78.6

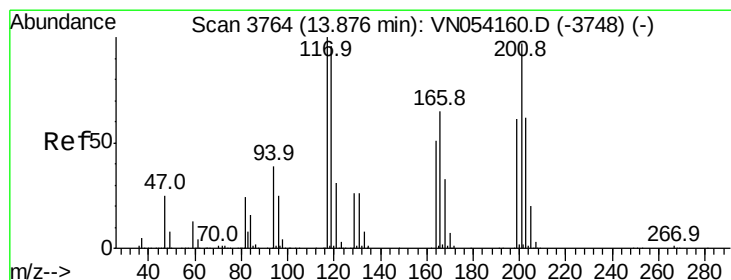
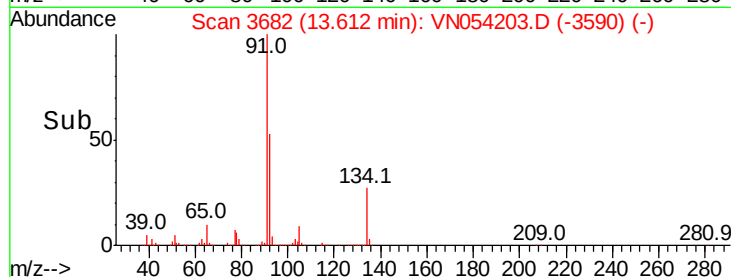
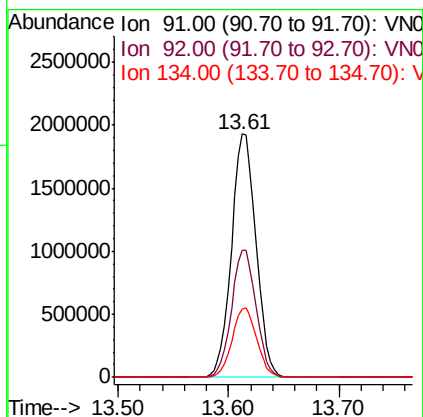
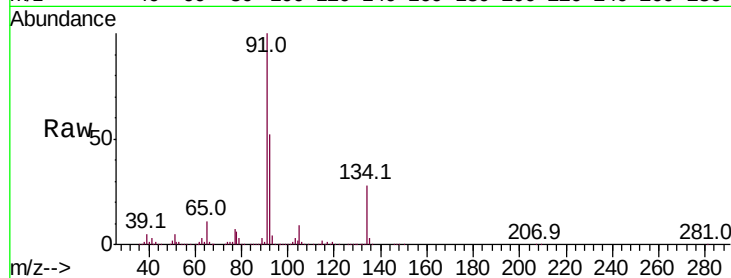
134 28.5 14.3 42.9

Manual Integrations

APPROVED

MMDadoda

3/14/2019 10:26:58 AM



#90

Hexachloroethane

Concen: 46.326 ug/l

RT: 13.88 min Scan# 3764

Delta R.T. 0.00 min

Lab File: VN054203.D

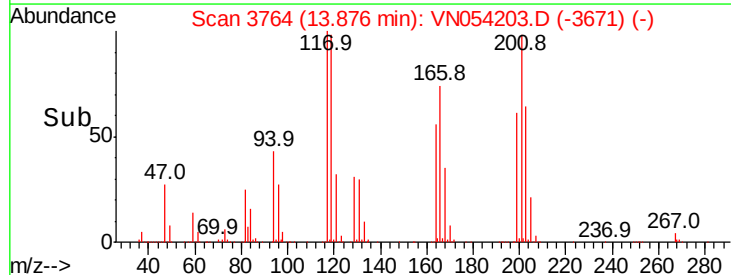
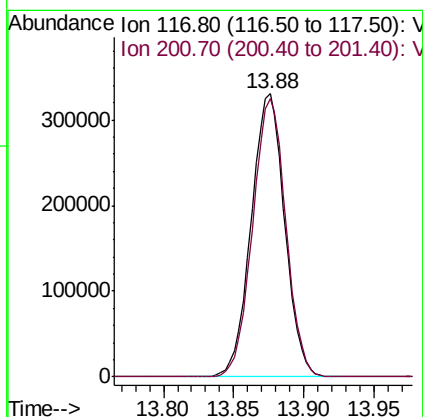
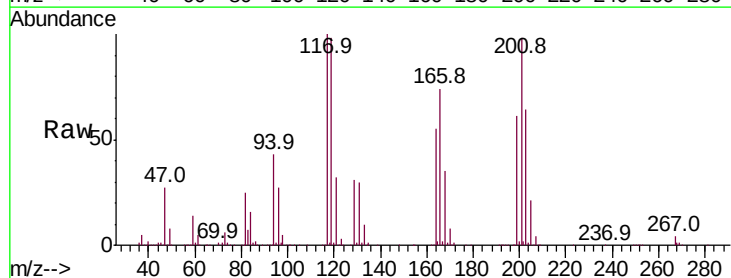
Acq: 13 Mar 2019 9:47

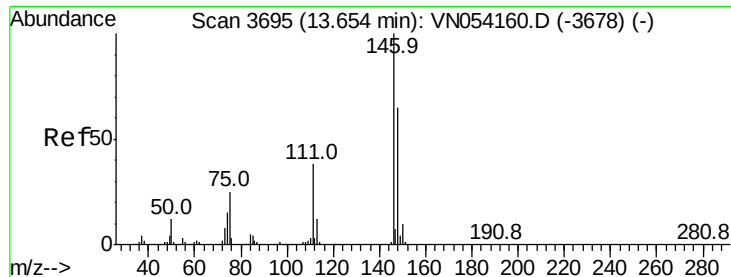
Tgt Ion: 117 Resp: 549091

Ion Ratio Lower Upper

117 100

201 97.3 48.1 144.4





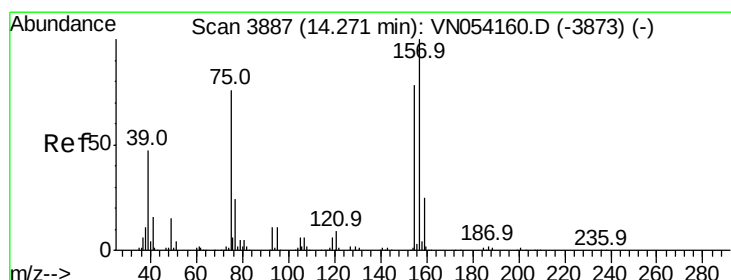
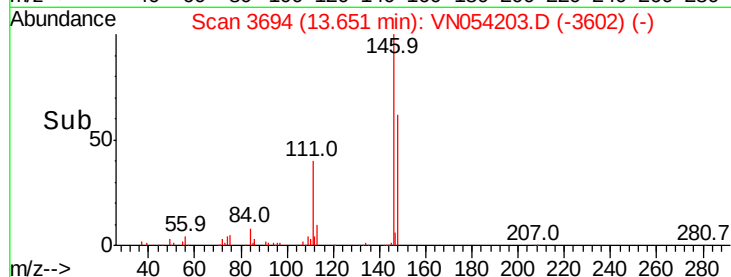
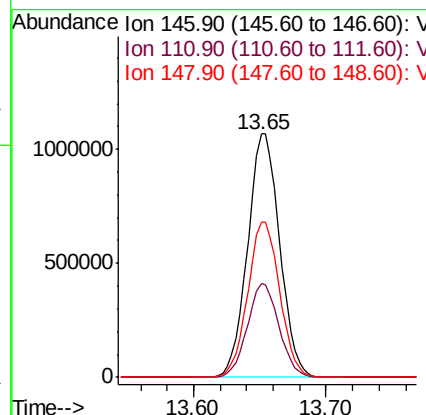
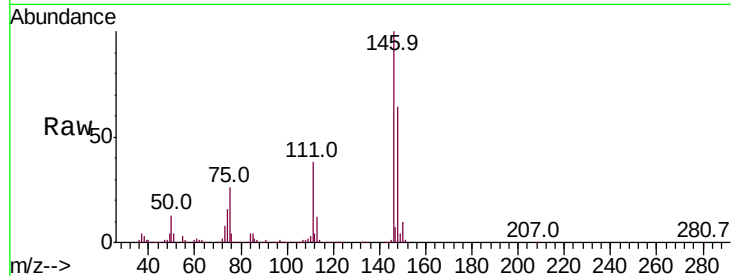
#91
 1,2-Dichlorobenzene
 Concen: 49.968 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN054203.D
 Acq: 13 Mar 2019 9:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.9	19.1	57.3
148	63.8	32.4	97.0

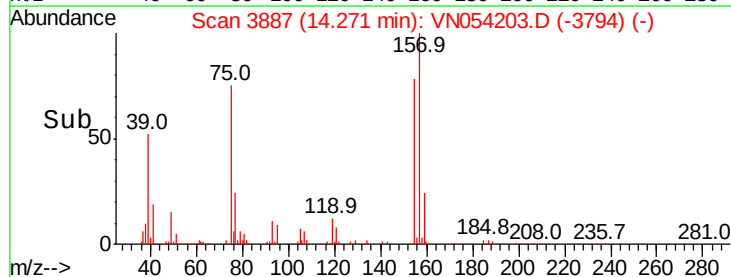
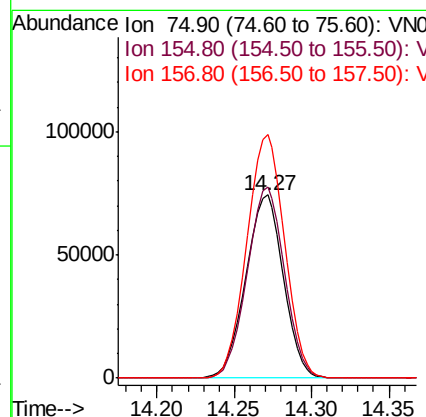
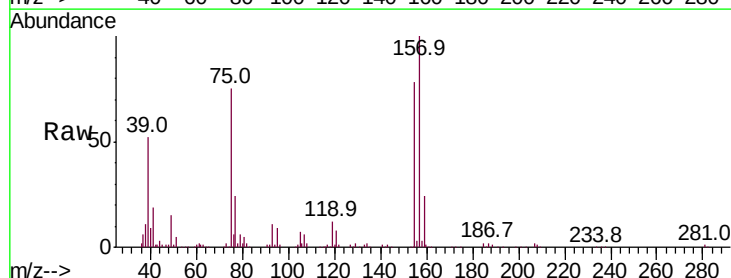
Manual Integrations
 APPROVED

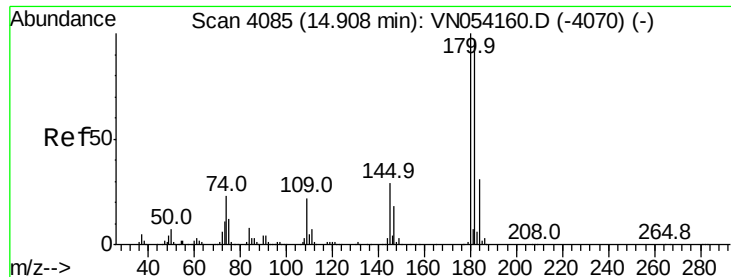
MMDadoda
 3/14/2019 10:26:58 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 46.494 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN054203.D
 Acq: 13 Mar 2019 9:47

Tgt Ion	Ratio	Lower	Upper
75	100		
155	103.7	50.1	150.3
157	133.6	63.1	189.3





#93

1,2,4-Trichlorobenzene

Concen: 49.874 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

Instrument :

MSVOA_N

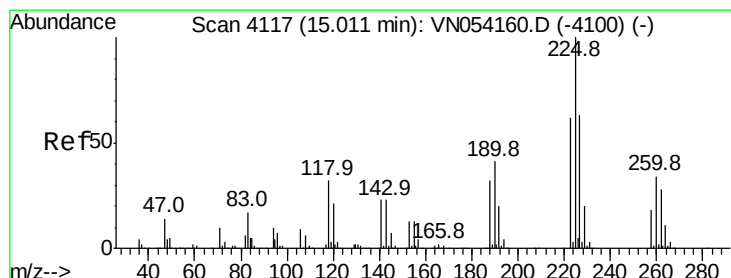
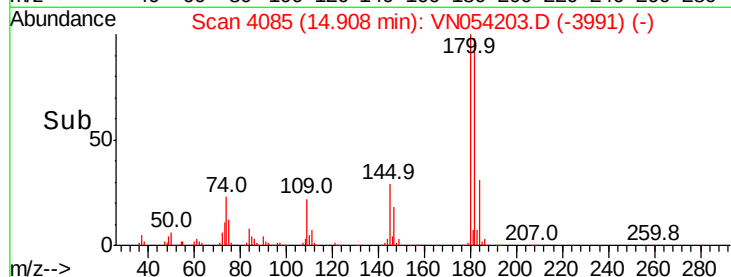
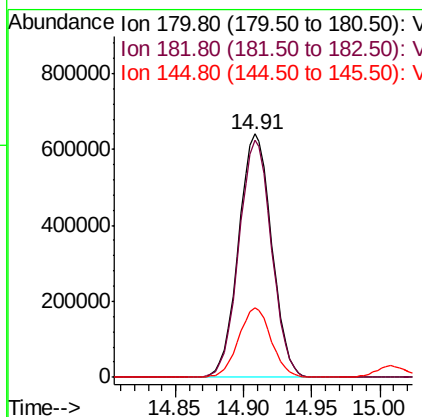
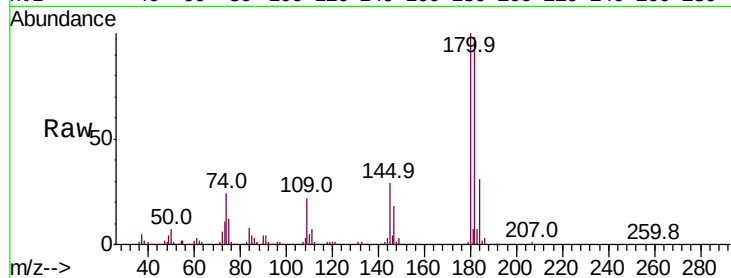
ClientSampleId :

VSTDCCC050

Tot Ion:	180	Resp:	1078411
Ion Ratio	Lower	Upper	
180	100		
182	96.1	48.0	144.2
145	28.1	14.2	42.8

Manual Integrations
APPROVED

MMDadoda
3/14/2019 10:26:58 AM



#94

Hexachlorobutadiene

Concen: 49.400 ug/l

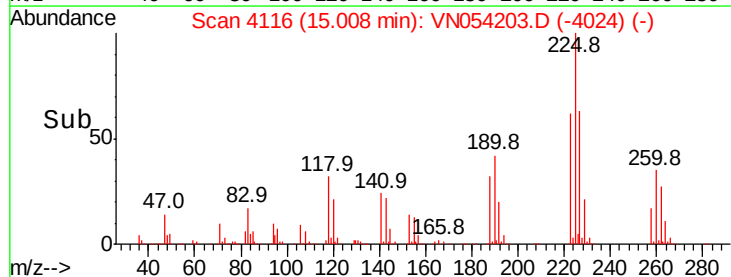
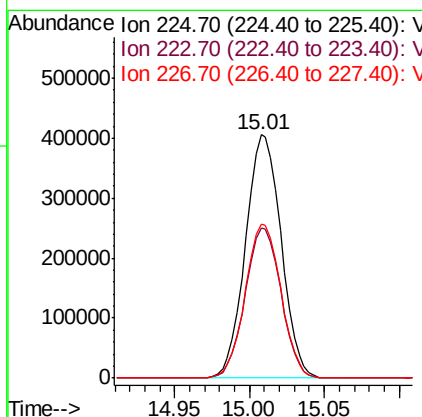
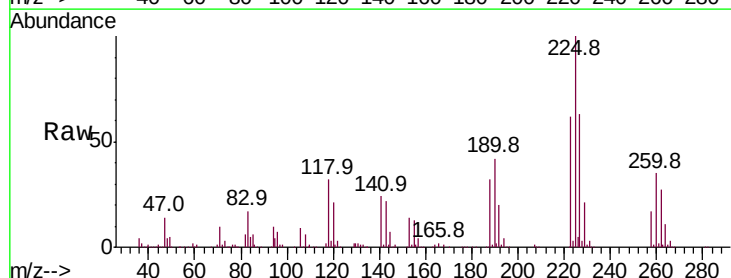
RT: 15.01 min Scan# 4116

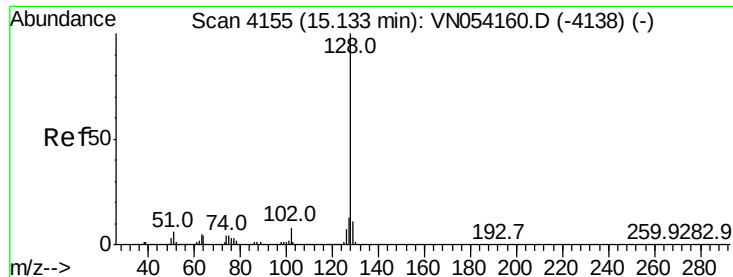
Delta R.T. -0.00 min

Lab File: VN054203.D

Acq: 13 Mar 2019 9:47

Tgt Ion:	225	Resp:	674015
Ion Ratio	Lower	Upper	
225	100		
223	61.9	31.1	93.5
227	63.4	31.9	95.9





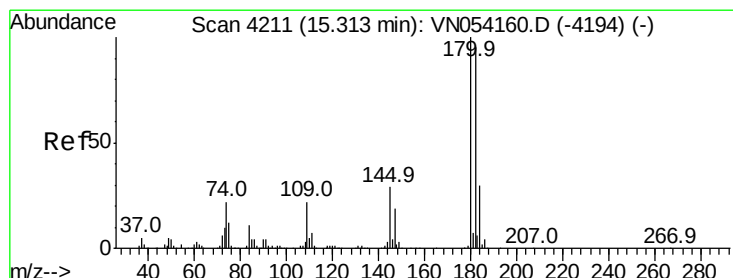
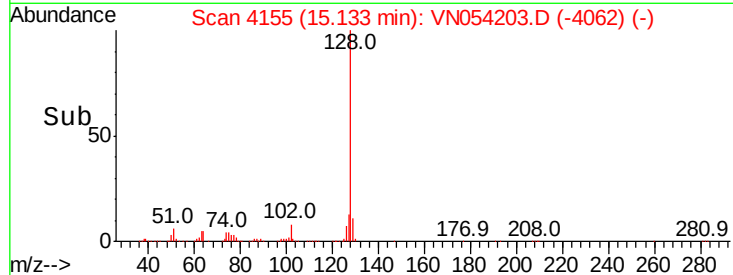
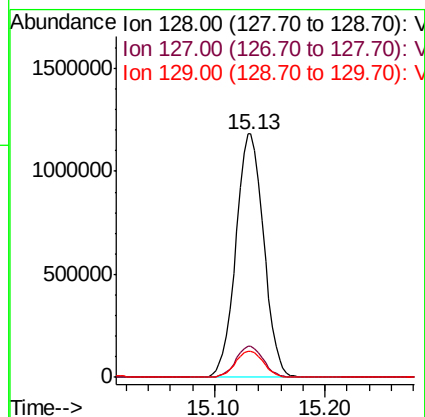
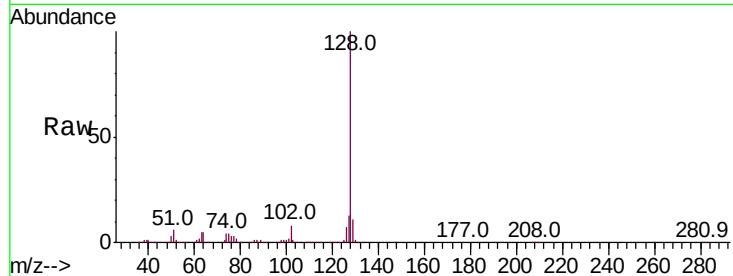
#95
Naphthalene
Concen: 46.084 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN054203.D
Acq: 13 Mar 2019 9:47

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.1	15.1
129	10.9	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
3/14/2019 10:26:58 AM



#96
1,2,3-Trichlorobenzene
Concen: 54.302 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN054203.D
Acq: 13 Mar 2019 9:47

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.0	47.5	142.6
145	30.0	14.8	44.3

