

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031419\
 Data File : VN054277.D
 Acq On : 14 Mar 2019 22:10
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 3/15/2019 10:14:17 AM

Quant Time: Mar 15 08:11:25 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	7.67	168	1401407	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2128074	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1869933	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	903470	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	749825	50.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.76%	
35) Dibromofluoromethane	7.59	113	712811	51.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.86%	
50) Toluene-d8	10.09	98	2563541	50.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.14%	
62) 4-Bromofluorobenzene	12.40	95	888395	50.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.18%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	651327	49.039	ug/l	99
3) Chloromethane	2.06	50	599185	46.443	ug/l	100
4) Vinyl Chloride	2.19	62	691327	46.882	ug/l	99
5) Bromomethane	2.57	94	380343	37.241	ug/l	97
6) Chloroethane	2.71	64	420114	47.087	ug/l	99
7) Trichlorofluoromethane	3.02	101	909596	46.395	ug/l	98
8) Diethyl Ether	3.41	74	465092	52.057	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.75	101	739140	50.310	ug/l	99
10) Methyl Iodide	3.94	142	862807	41.613	ug/l	98
11) Tert butyl alcohol	4.81	59	211207	207.006	ug/l	99
12) 1,1-Dichloroethene	3.73	96	745309	51.192	ug/l	96
13) Acrolein	3.61	56	183220	189.509	ug/l	100
14) Allyl chloride	4.32	41	892191	47.762	ug/l	100
15) Acrylonitrile	4.99	53	1044709	249.271	ug/l	100
16) Acetone	3.82	43	751998	176.470	ug/l	98
17) Carbon Disulfide	4.04	76	1613141	44.199	ug/l	99
18) Methyl Acetate	4.33	43	464160	53.838	ug/l	98
19) Methyl tert-butyl Ether	5.05	73	1831832	50.761	ug/l	100
20) Methylene Chloride	4.55	84	704674	50.362	ug/l	97
21) trans-1,2-Dichloroethene	5.04	96	697004	49.966	ug/l	98
22) Diisopropyl ether	5.96	45	1908361	51.188	ug/l	97
23) Vinyl Acetate	5.90	43	6792360	247.103	ug/l	99
24) 1,1-Dichloroethane	5.85	63	1213098	50.677	ug/l	99
25) 2-Butanone	6.85	43	1174853	234.900	ug/l	99
26) 2,2-Dichloropropane	6.82	77	831977	39.522	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	815646	52.412	ug/l	96
28) Bromochloromethane	7.19	49	485782	49.640	ug/l	93
29) Tetrahydrofuran	7.22	42	780302	242.648	ug/l	98
30) Chloroform	7.37	83	1300610	52.068	ug/l	100
31) Cyclohexane	7.65	56	1080807	48.251	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	1142782	50.657	ug/l	100
36) 1,1-Dichloropropene	7.79	75	962671	49.121	ug/l	99
37) Ethyl Acetate	6.94	43	540527	48.001	ug/l	99
38) Carbon Tetrachloride	7.77	117	999645	48.640	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031419\
 Data File : VN054277.D
 Acq On : 14 Mar 2019 22:10
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 3/15/2019 10:14:17 AM

Quant Time: Mar 15 08:11:25 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	1157960	48.023	ug/l	97
40) Benzene	8.04	78	2870095	51.178	ug/l	99
41) Methacrylonitrile	7.17	41	306752	47.710	ug/l	98
42) 1,2-Dichloroethane	8.12	62	948769	50.110	ug/l	100
43) Isopropyl Acetate	8.17	43	933335	47.220	ug/l	98
44) Trichloroethene	8.83	130	883499	50.713	ug/l	97
45) 1,2-Dichloropropane	9.12	63	721848	51.837	ug/l	99
46) Dibromomethane	9.21	93	475054	50.490	ug/l	98
47) Bromodichloromethane	9.40	83	960660	50.930	ug/l	98
48) Methyl methacrylate	9.20	41	493276	49.177	ug/l	97
49) 1,4-Dioxane	9.20	88	141825	999.594	ug/l	98
51) 4-Methyl-2-Pentanone	9.99	43	2633010	251.721	ug/l	99
52) Toluene	10.16	92	1825125	51.327	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	904938	42.266	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	1082304	49.240	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	675410	52.019	ug/l	99
56) Ethyl methacrylate	10.43	69	791372	51.117	ug/l	97
57) 1,3-Dichloropropane	10.71	76	1092087	51.439	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	1505322	225.861	ug/l	99
59) 2-Hexanone	10.75	43	1617275	232.365	ug/l	99
60) Dibromochloromethane	10.90	129	745162	50.989	ug/l	100
61) 1,2-Dibromoethane	11.01	107	678935	51.456	ug/l	98
64) Tetrachloroethene	10.63	164	894762	49.491	ug/l	99
65) Chlorobenzene	11.43	112	2123368	51.715	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	783261	52.513	ug/l	100
67) Ethyl Benzene	11.51	91	3432082	50.426	ug/l	99
68) m/p-Xylenes	11.62	106	2735064	102.815	ug/l	99
69) o-Xylene	11.95	106	1346892	51.939	ug/l	98
70) Styrene	11.96	104	2137748	52.563	ug/l	99
71) Bromoform	12.13	173	499933	44.253	ug/l #	99
73) Isopropylbenzene	12.25	105	3542548	49.009	ug/l	100
74) N-amyl acetate	12.07	43	763238	47.570	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.51	83	761423	49.442	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	676751m	50.937	ug/l	
77) Bromobenzene	12.53	156	953082	49.828	ug/l	97
78) n-propylbenzene	12.59	91	3855459	49.157	ug/l	100
79) 2-Chlorotoluene	12.67	91	2318235	49.158	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	2971866	49.429	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	146330	37.650	ug/l	90
82) 4-Chlorotoluene	12.77	91	2333505	49.555	ug/l	100
83) tert-Butylbenzene	12.99	119	2730320	49.336	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	2972219	50.389	ug/l	99
85) sec-Butylbenzene	13.17	105	3482741	48.527	ug/l	100
86) p-Isopropyltoluene	13.29	119	3096596	49.181	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	1642846	50.973	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	1601274	50.575	ug/l	100
89) n-Butylbenzene	13.62	91	2361781	49.368	ug/l	100
90) Hexachloroethane	13.88	117	487600	46.769	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	1622044	51.481	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	110765	46.479	ug/l	93

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031419\
Data File : VN054277.D
Acq On : 14 Mar 2019 22:10
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:14:17 AM

Quant Time: Mar 15 08:11:25 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	888349	46.867	ug/l	99
94) Hexachlorobutadiene	15.01	225	559430	46.614	ug/l	100
95) Naphthalene	15.13	128	1805006	45.859	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	889690	53.145	ug/l	99

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

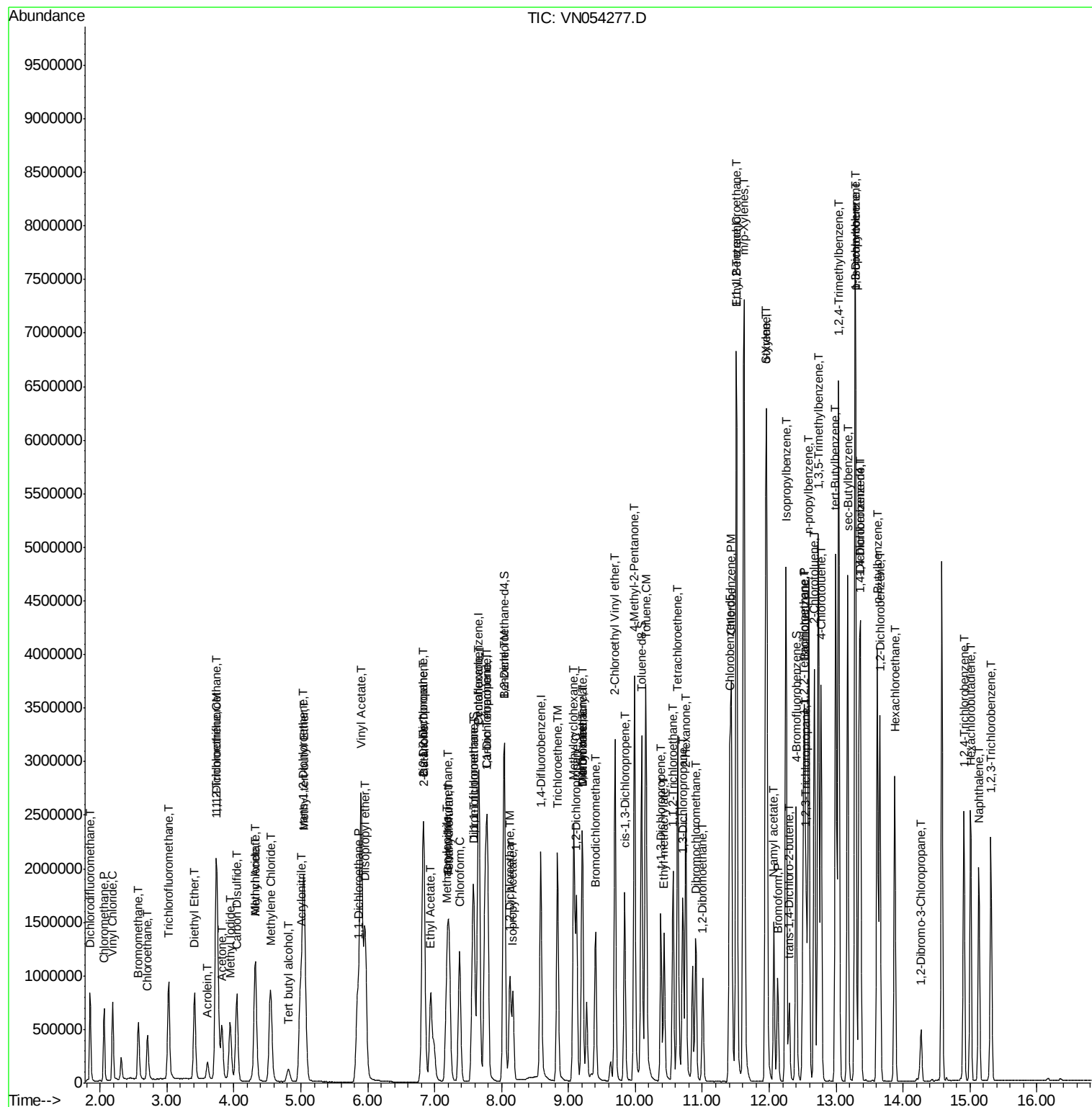
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_N\DATA\VN031419\
 Data File : VN054277.D
 Acq On : 14 Mar 2019 22:10
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 26 Sample Multiplier: 1

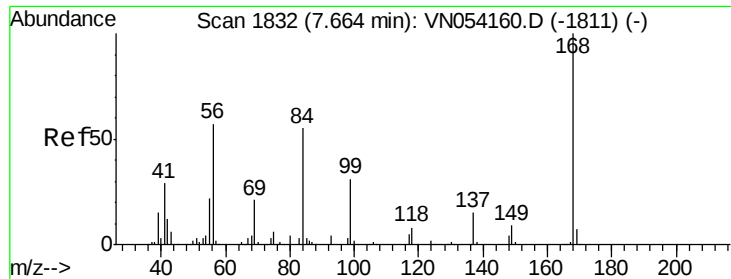
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 3/15/2019 10:14:17 AM

Quant Time: Mar 15 08:11:25 2019
 Quant Method : Z:\V0ASRV\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: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054277.D

Acq: 14 Mar 2019 22:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion:168 Resp: 1401407

Ion Ratio Lower Upper

168 100

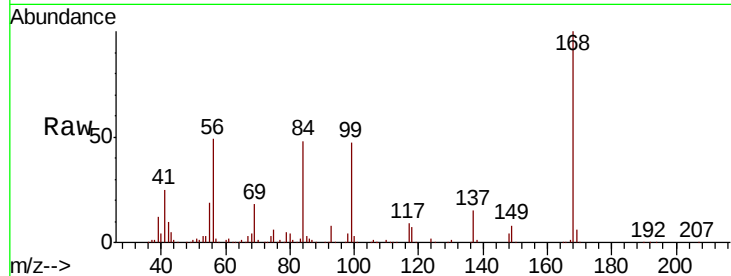
99 46.2 37.1 55.7

Manual Integrations

APPROVED

MMDadoda

3/15/2019 10:14:17 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

600000

500000

400000

300000

200000

100000

0

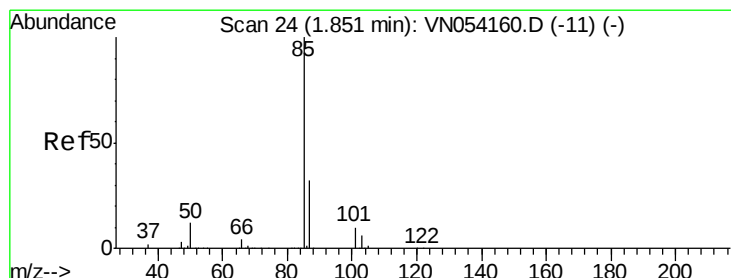
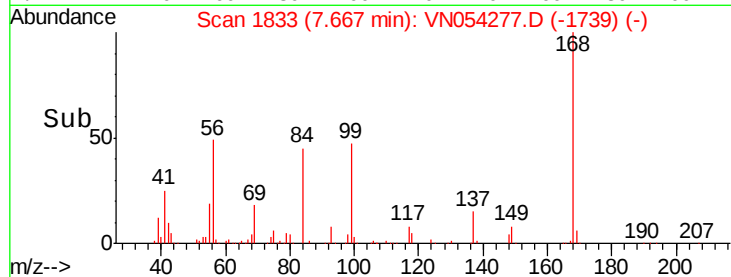
7.50

7.60

7.70

7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 49.039 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN054277.D

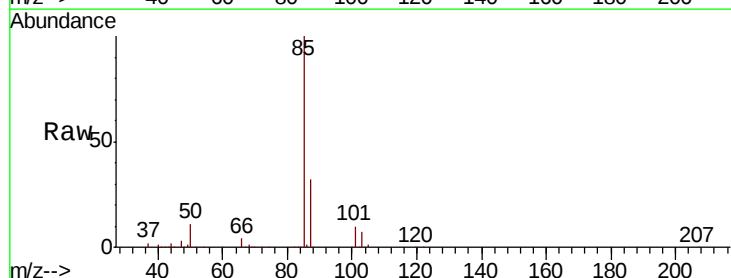
Acq: 14 Mar 2019 22:10

Tgt Ion: 85 Resp: 651327

Ion Ratio Lower Upper

85 100

87 32.1 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

500000

400000

300000

200000

100000

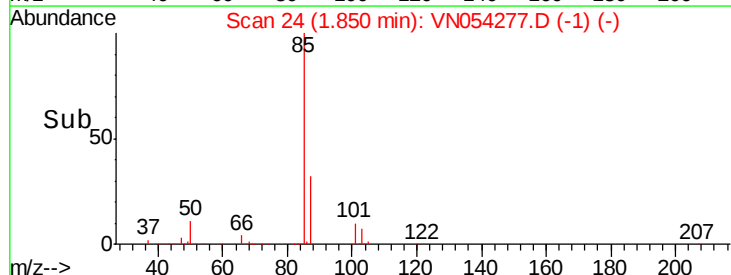
0

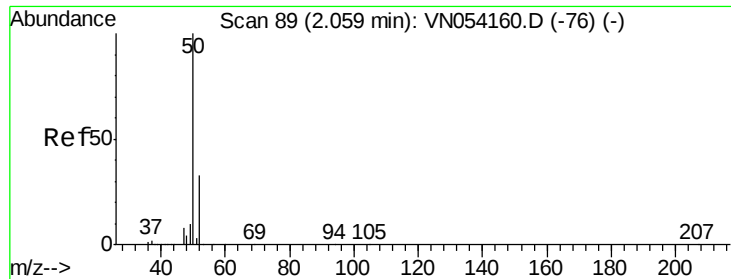
1.80

1.90

2.00

Time-->





#3

Chloromethane

Concen: 46.443 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN054277.D

Acq: 14 Mar 2019 22:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 50 Resp: 599185

Ion Ratio Lower Upper

50 100

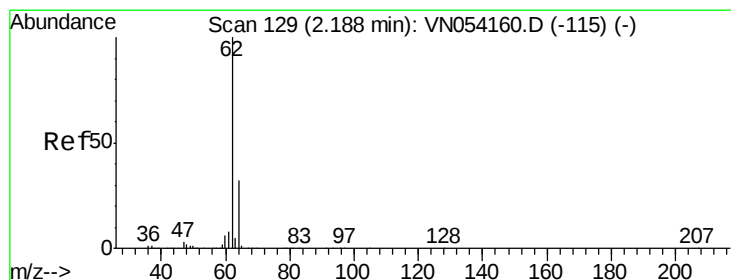
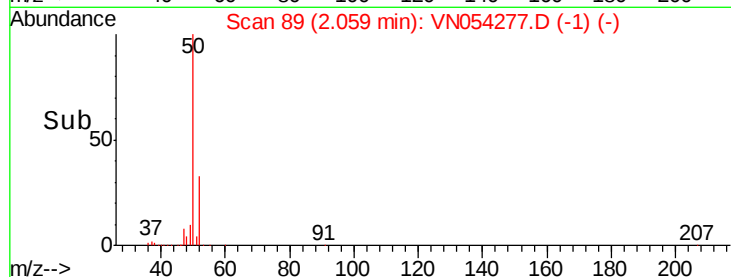
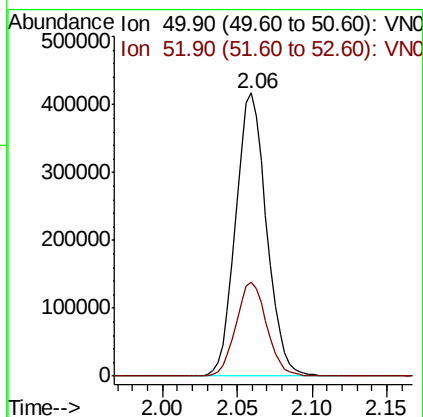
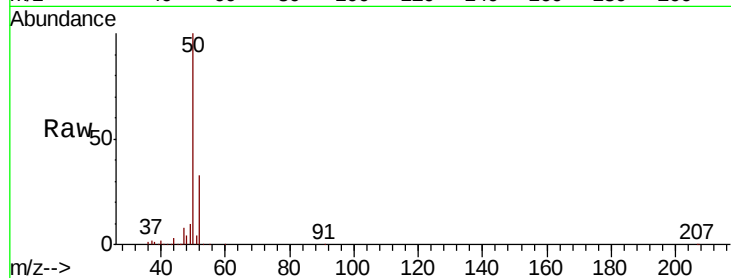
52 33.3 26.4 39.6

Manual Integrations

APPROVED

MMDadoda

3/15/2019 10:14:17 AM



#4

Vinyl Chloride

Concen: 46.882 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN054277.D

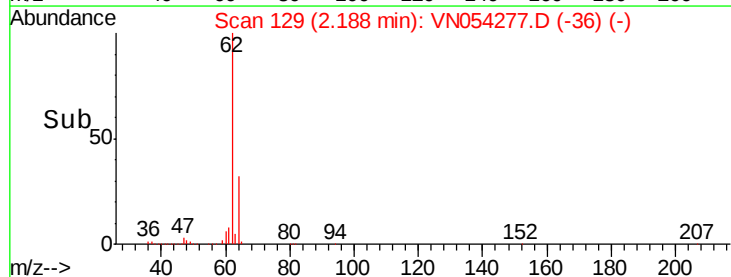
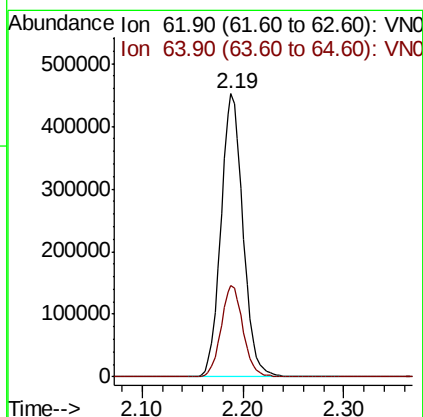
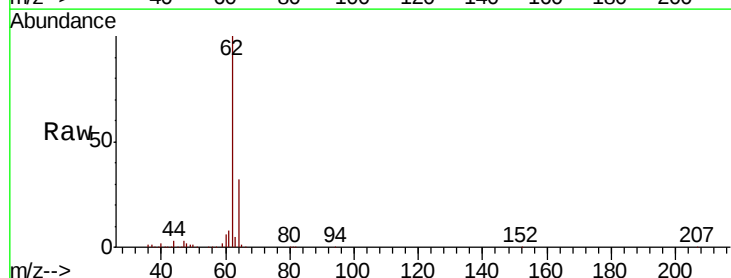
Acq: 14 Mar 2019 22:10

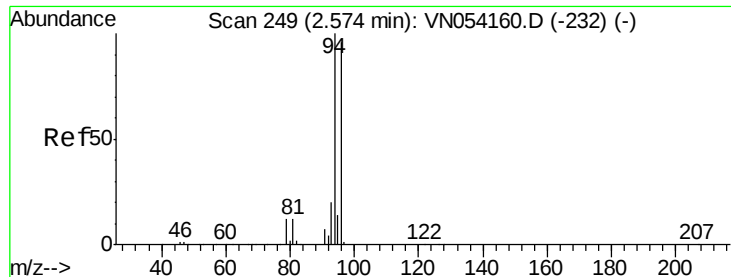
Tgt Ion: 62 Resp: 691327

Ion Ratio Lower Upper

62 100

64 32.5 25.5 38.3





#5

Bromomethane

Concen: 37.241 ug/l

RT: 2.57 min Scan# 249

Delta R.T. -0.00 min

Lab File: VN054277.D

Acq: 14 Mar 2019 22:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 94 Resp: 380343

Ion Ratio Lower Upper

94 100

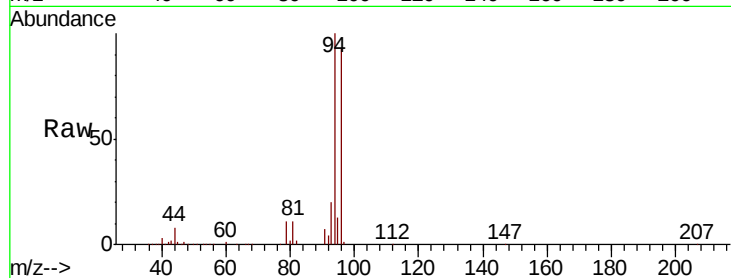
96 92.8 77.0 115.4

Manual Integrations

APPROVED

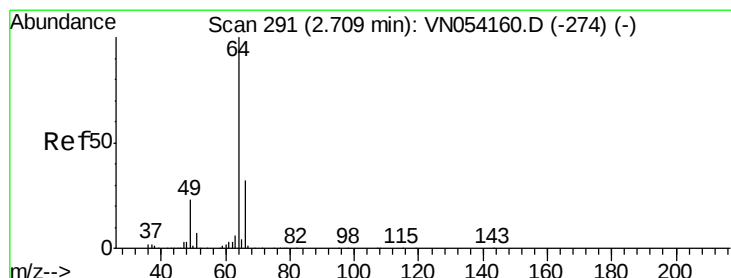
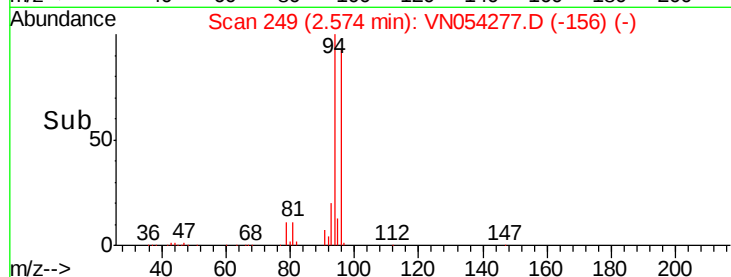
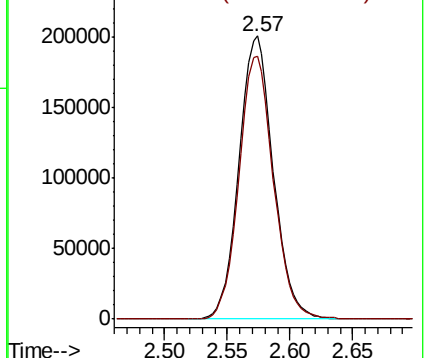
MMDadoda

3/15/2019 10:14:17 AM



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 47.087 ug/l

RT: 2.71 min Scan# 291

Delta R.T. -0.00 min

Lab File: VN054277.D

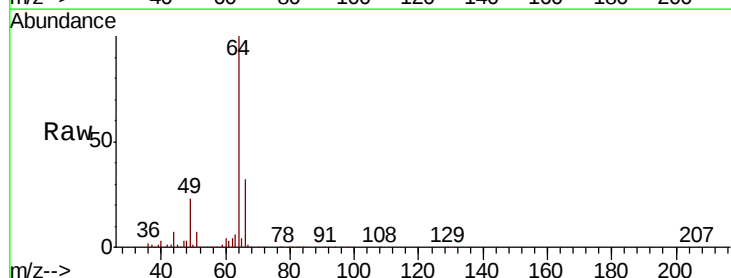
Acq: 14 Mar 2019 22:10

Tgt Ion: 64 Resp: 420114

Ion Ratio Lower Upper

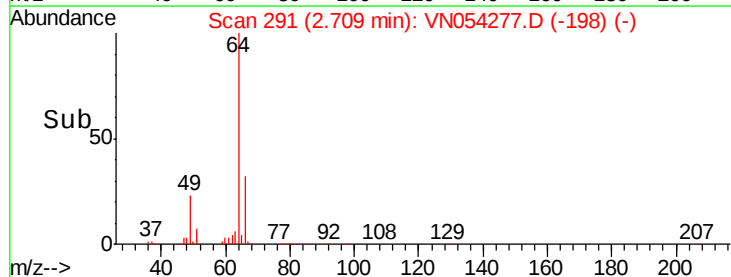
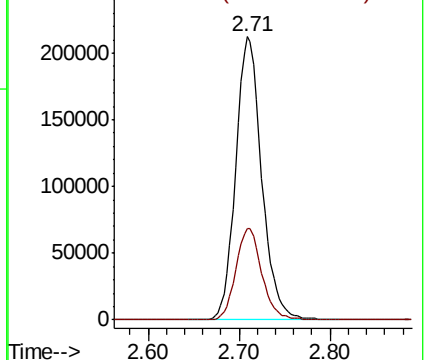
64 100

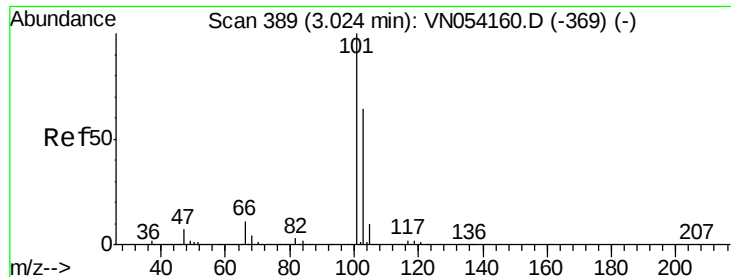
66 32.5 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

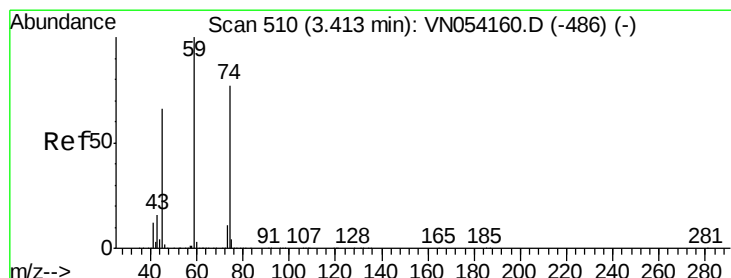
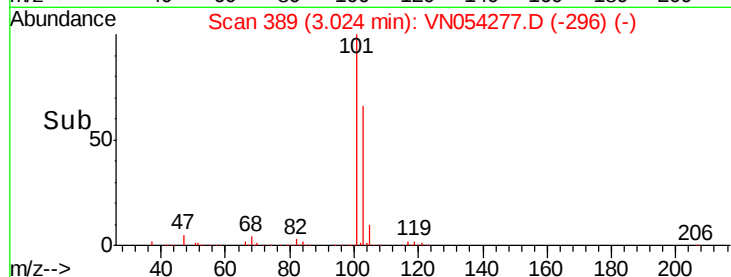
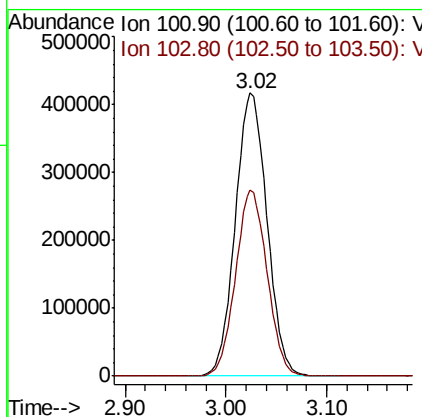
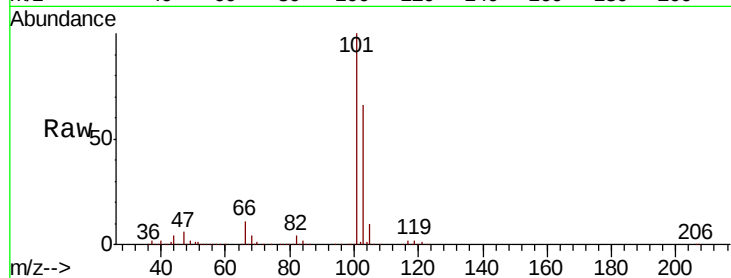
Trichlorofluoromethane
 Concen: 46.395 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. -0.00 min
 Lab File: VN054277.D
 Acq: 14 Mar 2019 22:10

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
101	100		
103	65.9	51.4	77.2

Manual Integrations
 APPROVED

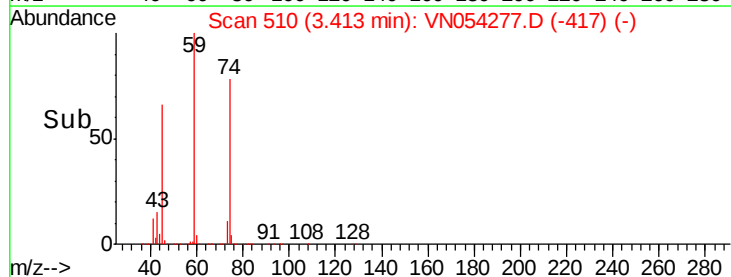
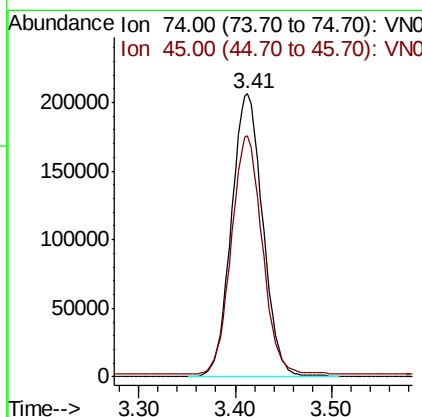
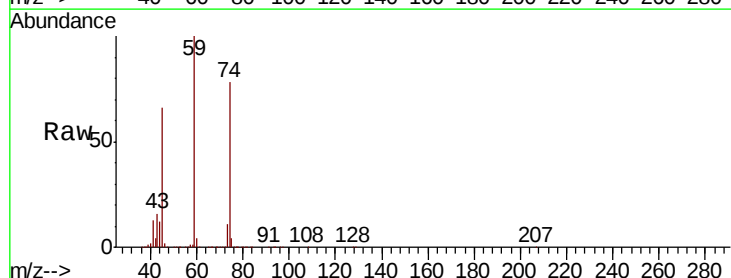
MMDadoda
 3/15/2019 10:14:17 AM

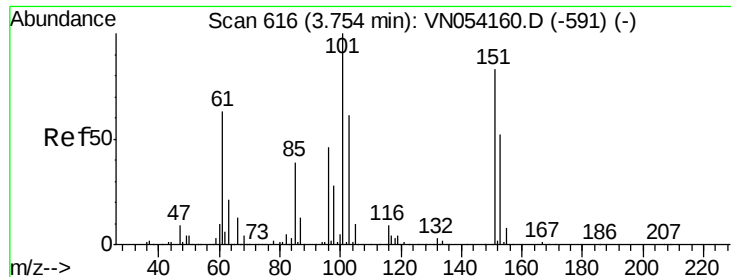


#8

Diethyl Ether
 Concen: 52.057 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. -0.00 min
 Lab File: VN054277.D
 Acq: 14 Mar 2019 22:10

Tgt Ion	Ratio	Lower	Upper
74	100		
45	82.5	43.1	129.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 50.310 ug/l

RT: 3.75 min Scan# 616

Delta R.T. -0.00 min

Lab File: VN054277.D

Acq: 14 Mar 2019 22:10

Instrument :

MSVOA_N

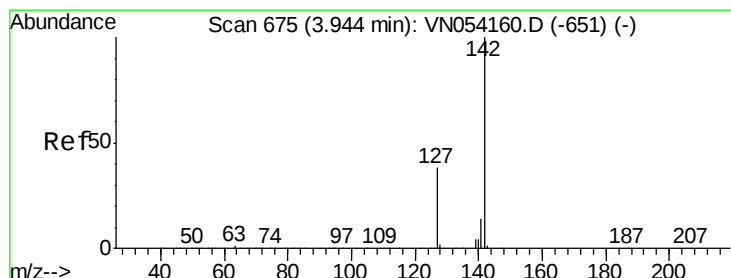
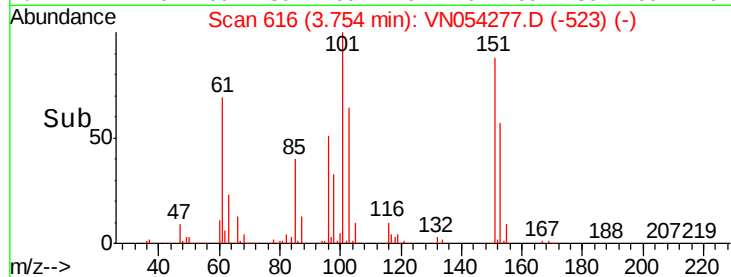
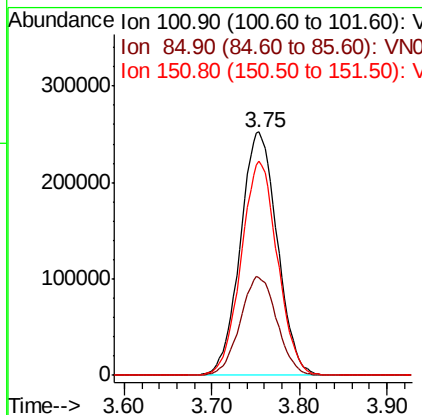
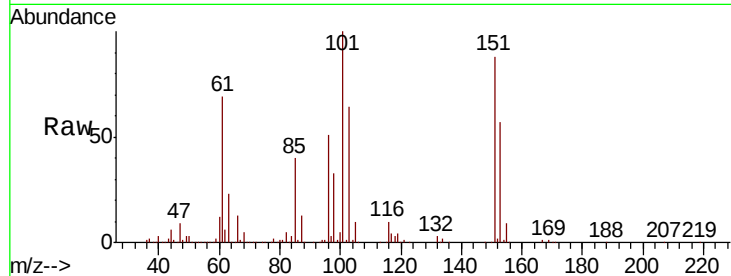
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	101	Resp:	739140
Ion Ratio	Lower	Upper	
101	100		
85	40.4	32.4	48.6
151	86.4	68.2	102.2

Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:14:17 AM



#10

Methyl Iodide

Concen: 41.613 ug/l

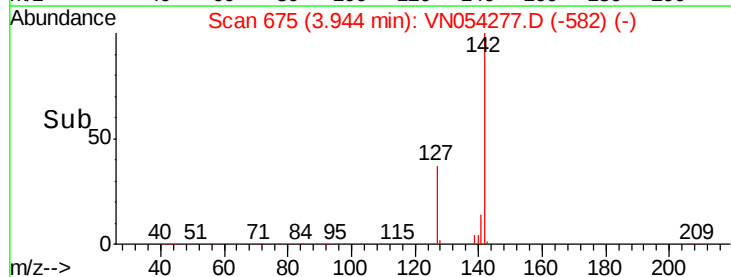
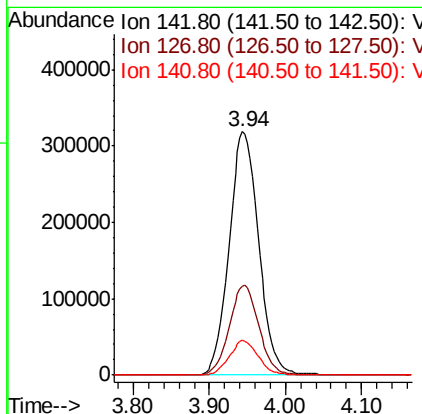
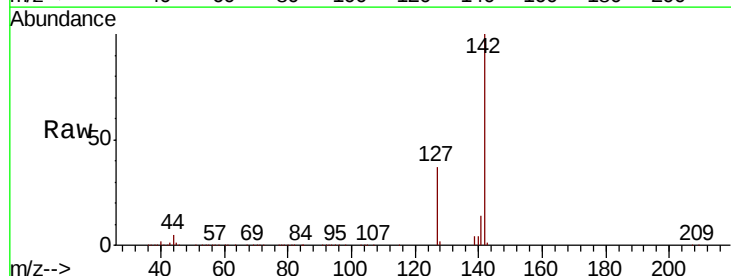
RT: 3.94 min Scan# 675

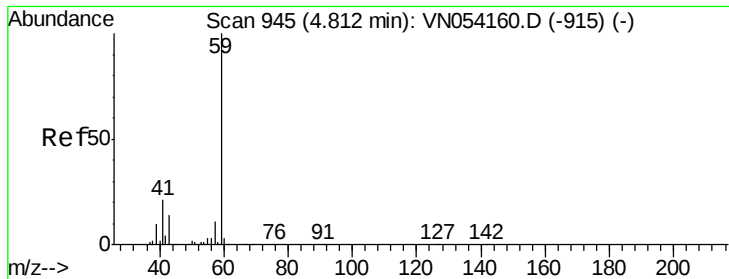
Delta R.T. -0.00 min

Lab File: VN054277.D

Acq: 14 Mar 2019 22:10

Tgt Ion:	142	Resp:	862807
Ion Ratio	Lower	Upper	
142	100		
127	36.7	30.3	45.5
141	13.8	11.2	16.8





#11

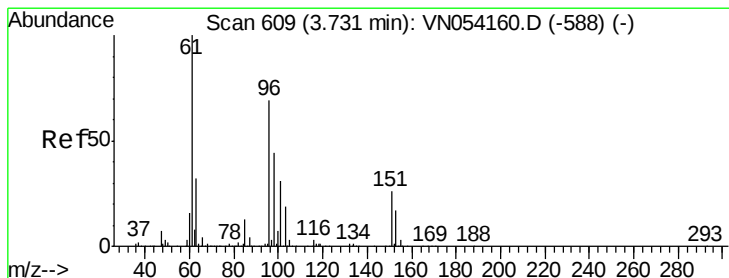
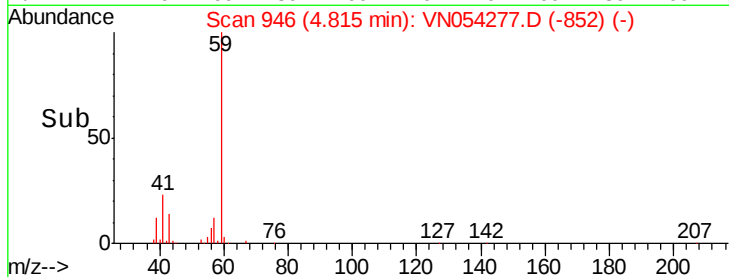
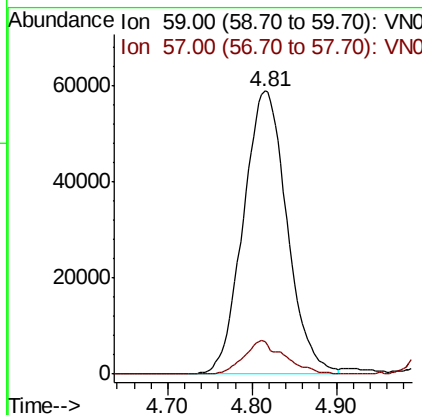
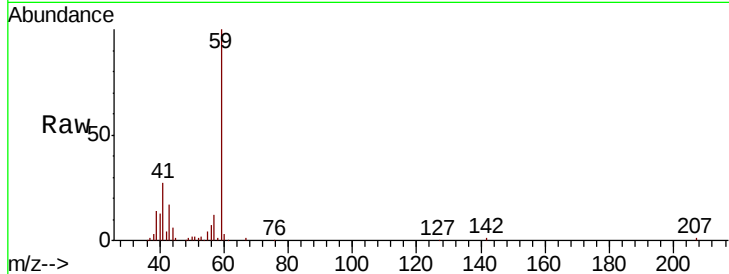
Tert butyl alcohol
 Concen: 207.006 ug/l
 RT: 4.81 min Scan# 946
 Delta R.T. 0.00 min
 Lab File: VN054277.D
 Acq: 14 Mar 2019 22:10

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
59	100		
57	10.9	9.0	13.6

Manual Integrations
 APPROVED

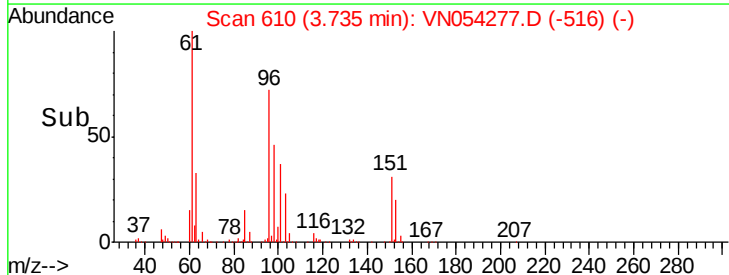
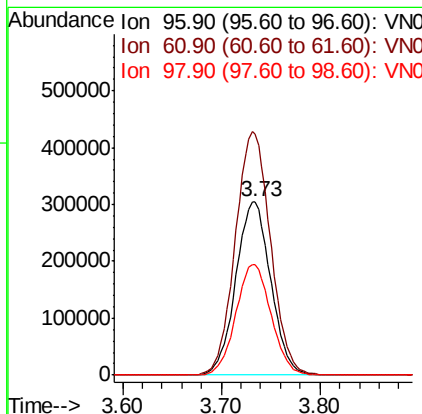
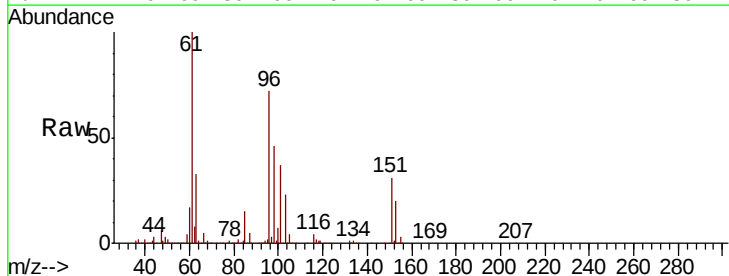
MMDadoda
 3/15/2019 10:14:17 AM



#12

1,1-Dichloroethene
 Concen: 51.192 ug/l
 RT: 3.73 min Scan# 610
 Delta R.T. 0.00 min
 Lab File: VN054277.D
 Acq: 14 Mar 2019 22:10

Tgt Ion	Ratio	Lower	Upper
96	100		
61	139.2	116.5	174.7
98	63.5	51.0	76.4





#13

Acrolein

Concen: 189.509 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN054277.D

Acq: 14 Mar 2019 22:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 56 Resp: 183220

Ion Ratio Lower Upper

56 100

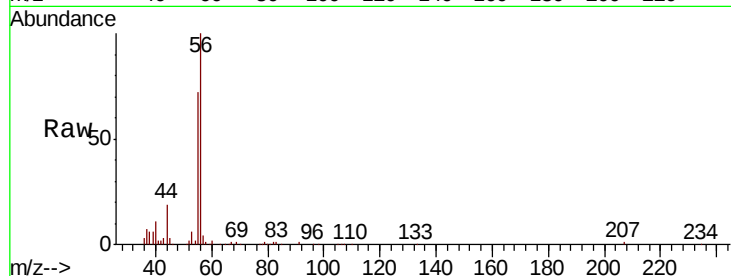
55 71.3 56.7 85.1

Manual Integrations

APPROVED

MMDadoda

3/15/2019 10:14:17 AM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

80000

60000

40000

20000

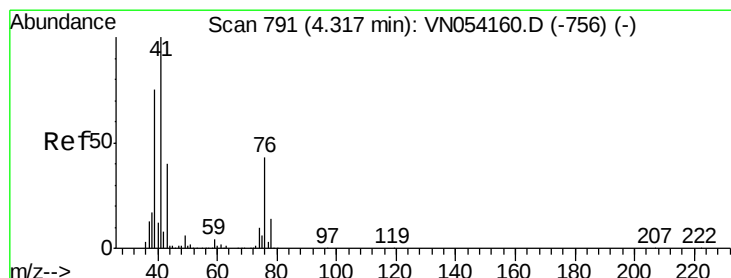
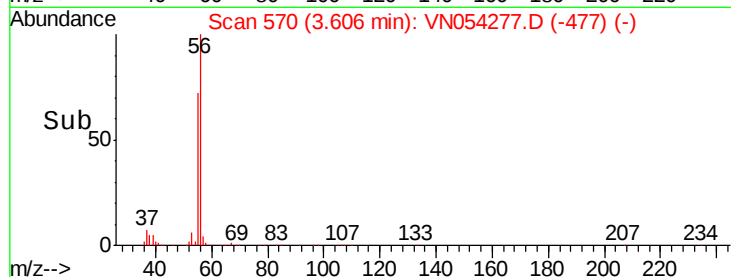
0

3.50

3.60

3.70

Time-->



#14

Allyl chloride

Concen: 47.762 ug/l

RT: 4.32 min Scan# 791

Delta R.T. -0.00 min

Lab File: VN054277.D

Acq: 14 Mar 2019 22:10

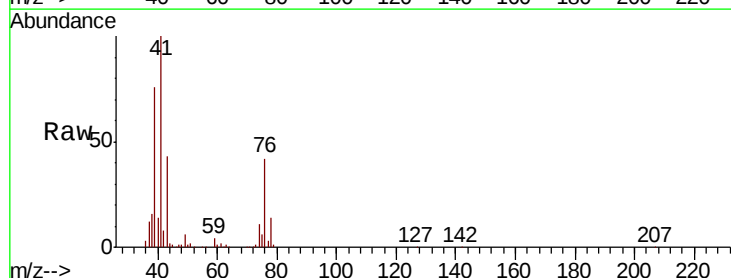
Tgt Ion: 41 Resp: 892191

Ion Ratio Lower Upper

41 100

39 72.9 58.2 87.4

76 39.5 31.7 47.5



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0

400000

300000

200000

100000

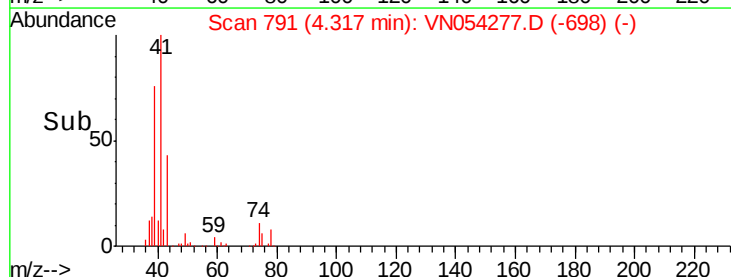
0

4.20

4.30

4.40

Time-->





#15

Acrylonitrile

Concen: 249.271 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VN054277.D

Acq: 14 Mar 2019 22:10

Instrument :

MSVOA_N

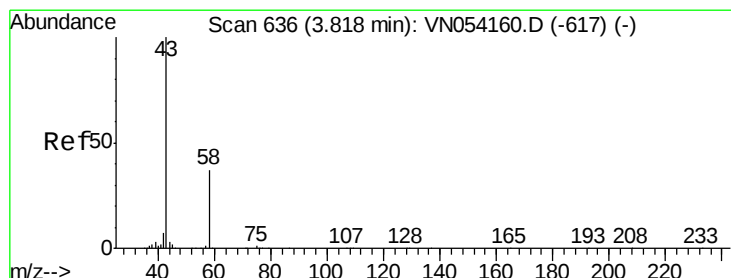
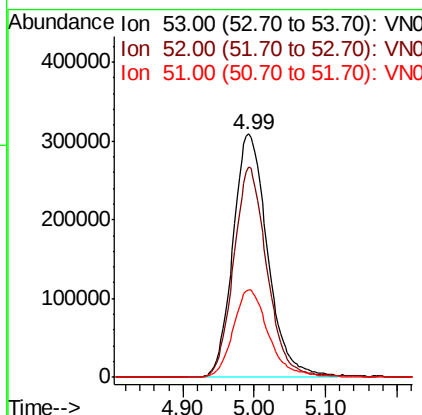
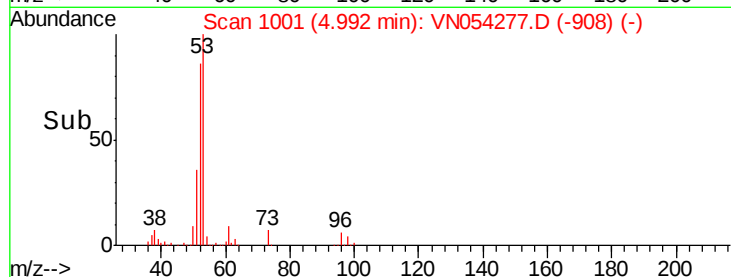
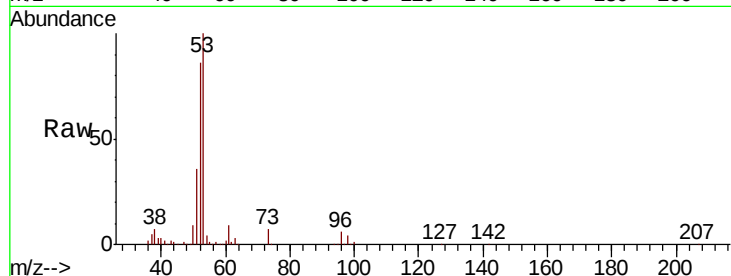
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	53	Resp:	1044709
Ion	Ratio	Lower	Upper
53	100		
52	83.5	66.4	99.6
51	37.0	29.6	44.4

Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:14:17 AM



#16

Acetone

Concen: 176.470 ug/l

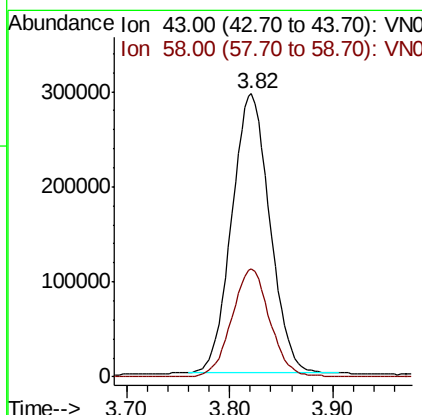
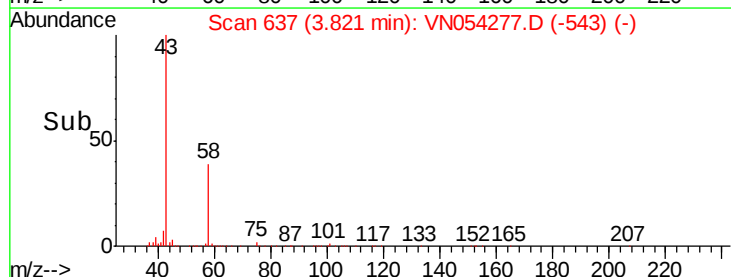
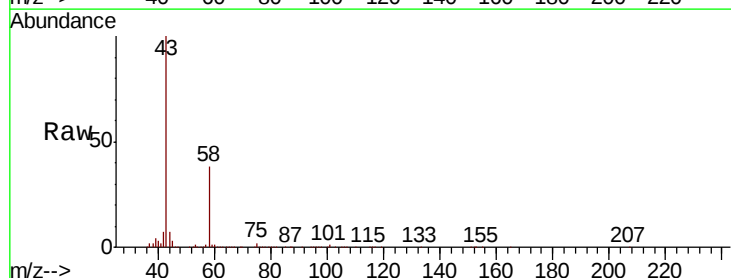
RT: 3.82 min Scan# 637

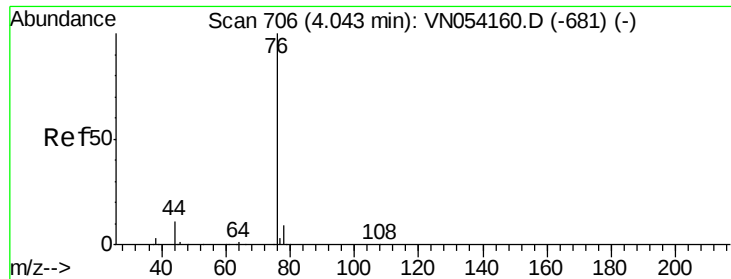
Delta R.T. 0.00 min

Lab File: VN054277.D

Acq: 14 Mar 2019 22:10

Tgt Ion:	43	Resp:	751998
Ion	Ratio	Lower	Upper
43	100		
58	38.7	29.9	44.9





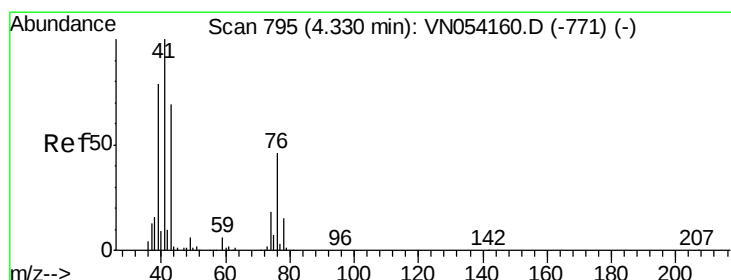
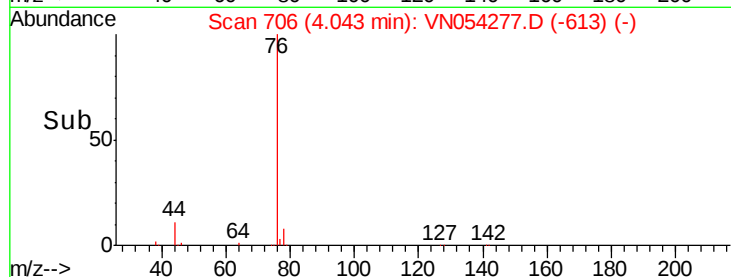
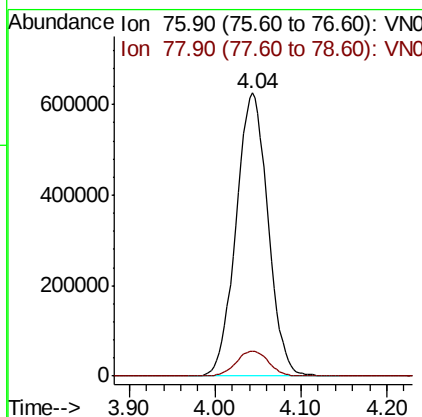
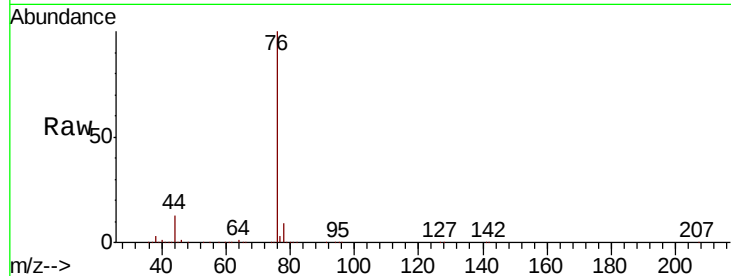
#17
Carbon Disulfide
Concen: 44.199 ug/l
RT: 4.04 min Scan# 706
Delta R.T. -0.00 min
Lab File: VN054277.D
Acq: 14 Mar 2019 22:10

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050EC

Tgt Ion: 76 Resp: 1613141
Ion Ratio Lower Upper
76 100
78 8.9 7.5 11.3

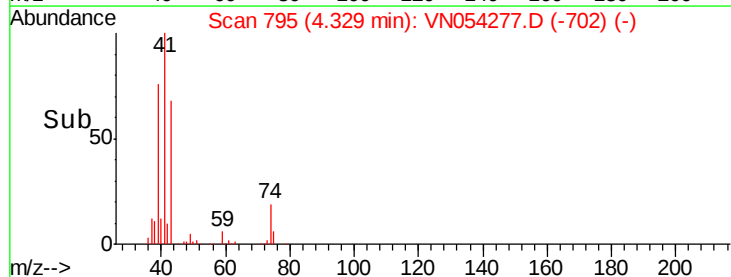
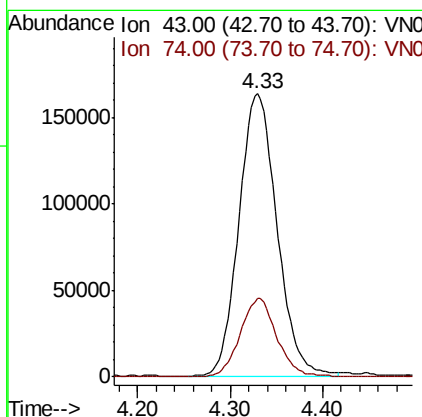
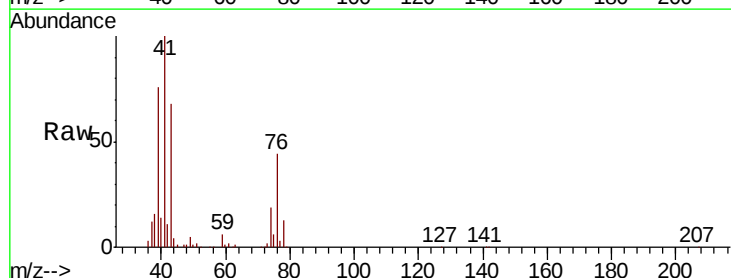
Manual Integrations
APPROVED

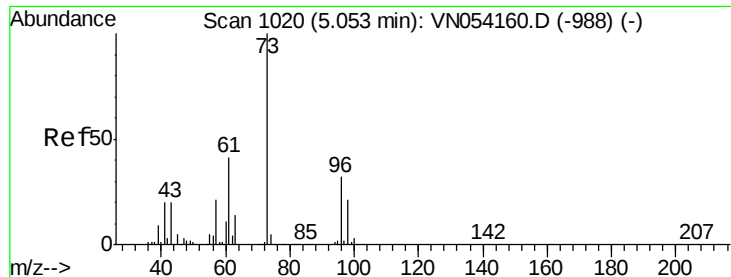
MMDadoda
3/15/2019 10:14:17 AM



#18
Methyl Acetate
Concen: 53.838 ug/l
RT: 4.33 min Scan# 795
Delta R.T. -0.00 min
Lab File: VN054277.D
Acq: 14 Mar 2019 22:10

Tgt Ion: 43 Resp: 464160
Ion Ratio Lower Upper
43 100
74 26.9 20.8 31.2





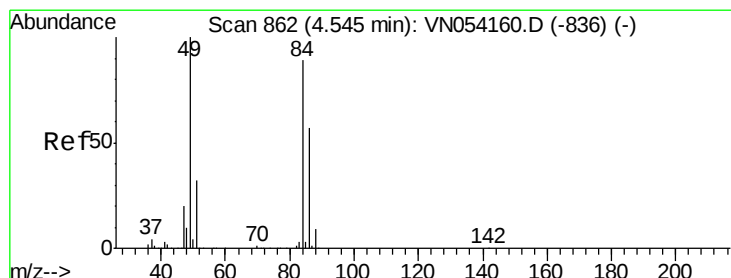
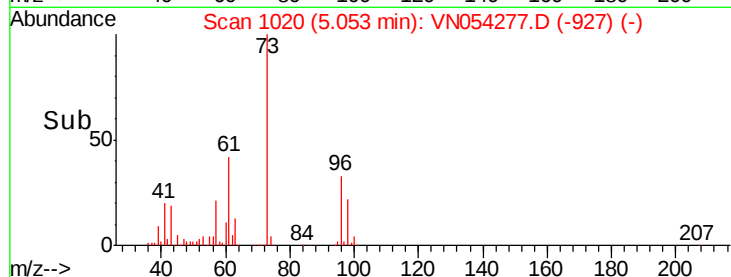
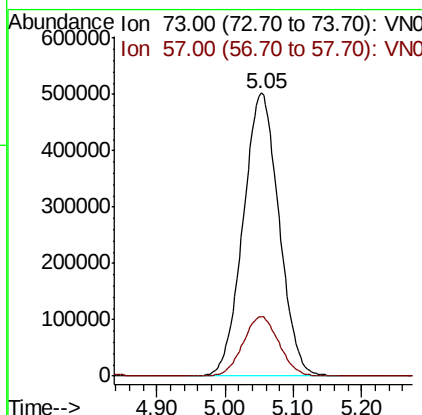
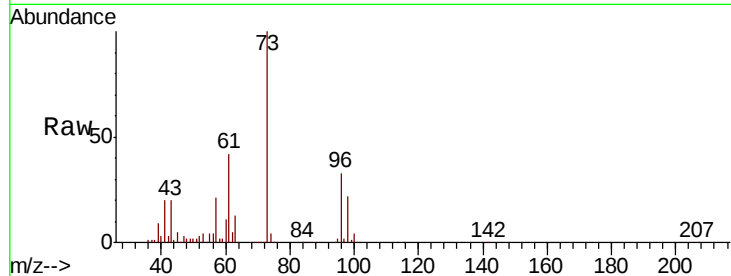
#19
Methyl tert-butyl Ether
Concen: 50.761 ug/l
RT: 5.05 min Scan# 1020
Delta R.T. -0.00 min
Lab File: VN054277.D
Acq: 14 Mar 2019 22:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 1831832
Ion Ratio Lower Upper
73 100
57 21.0 16.8 25.2

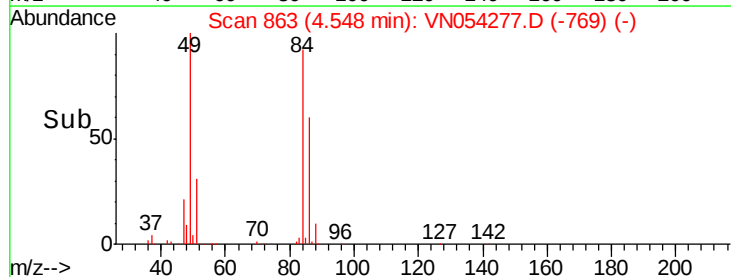
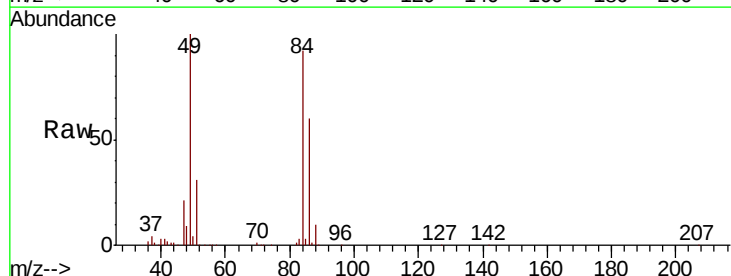
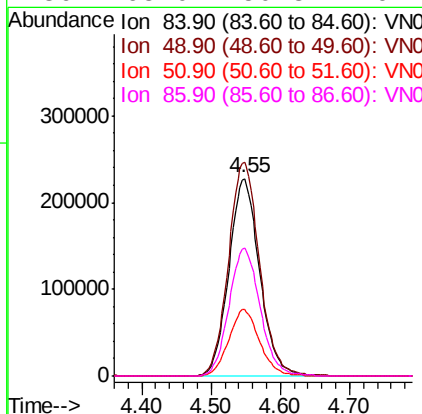
Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:14:17 AM



#20
Methylene Chloride
Concen: 50.362 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN054277.D
Acq: 14 Mar 2019 22:10

Tgt Ion: 84 Resp: 704674
Ion Ratio Lower Upper
84 100
49 108.1 89.7 134.5
51 33.4 28.2 42.4
86 65.0 50.8 76.2





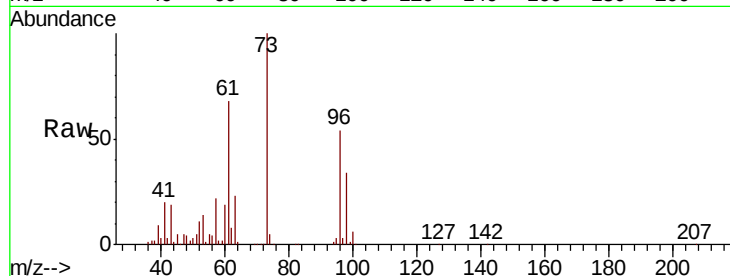
#21
trans-1,2-Dichloroethene
Concen: 49.966 ug/l
RT: 5.04 min Scan# 1015
Delta R.T. -0.00 min
Lab File: VN054277.D
Acq: 14 Mar 2019 22:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
96	100		
61	125.7	102.8	154.2
98	62.8	50.0	75.0

Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:14:17 AM

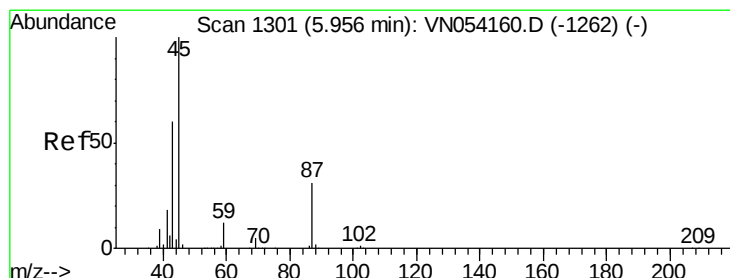
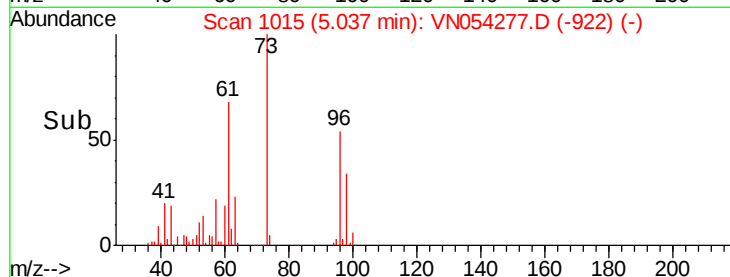
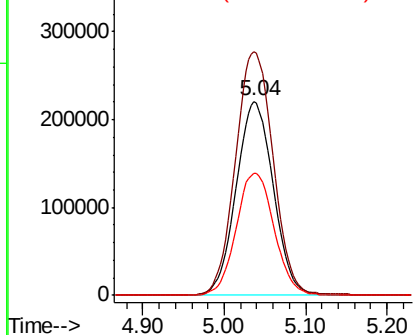


Abundance

Ion 95.90 (95.60 to 96.60): VNC

Ion 60.90 (60.60 to 61.60): VNC

Ion 97.90 (97.60 to 98.60): VNC



#22
Diisopropyl ether
Concen: 51.188 ug/l
RT: 5.96 min Scan# 1302
Delta R.T. 0.00 min
Lab File: VN054277.D
Acq: 14 Mar 2019 22:10

Tgt Ion	Ratio	Lower	Upper
45	100		
43	57.3	48.2	72.2
87	32.9	24.9	37.3
59	12.1	9.5	14.3

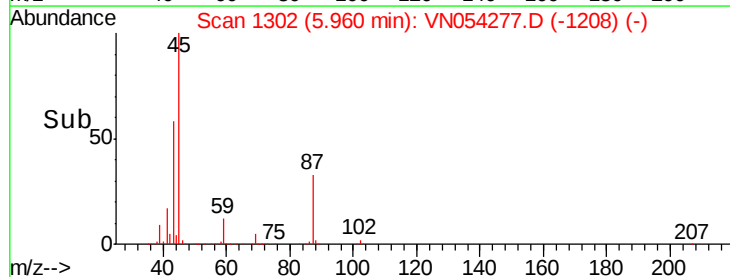
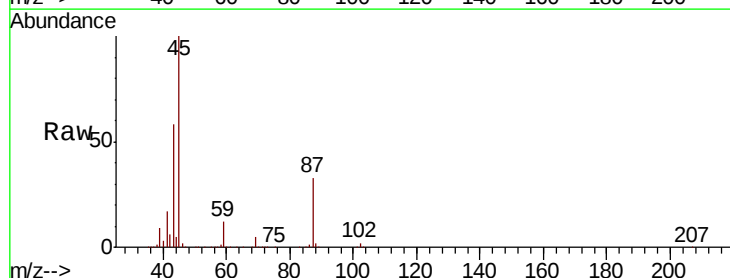
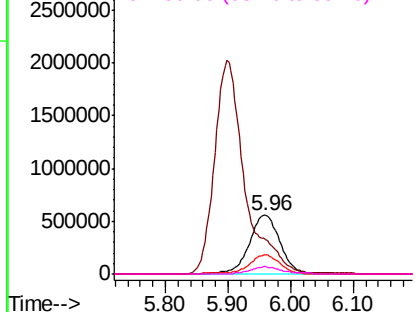
Abundance

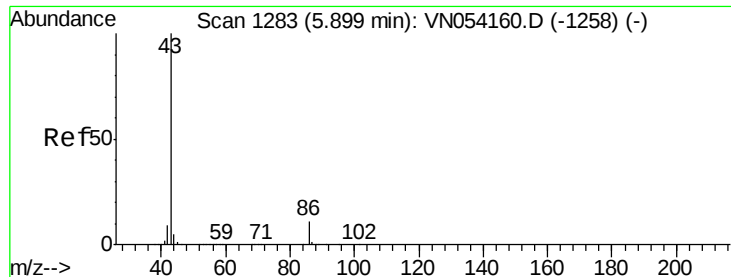
Ion 45.00 (44.70 to 45.70): VNC

Ion 43.00 (42.70 to 43.70): VNC

Ion 87.00 (86.70 to 87.70): VNC

Ion 59.00 (58.70 to 59.70): VNC





#23

Vinyl Acetate

Concen: 247.103 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VN054277.D

Acq: 14 Mar 2019 22:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 6792360

Ion Ratio Lower Upper

43 100

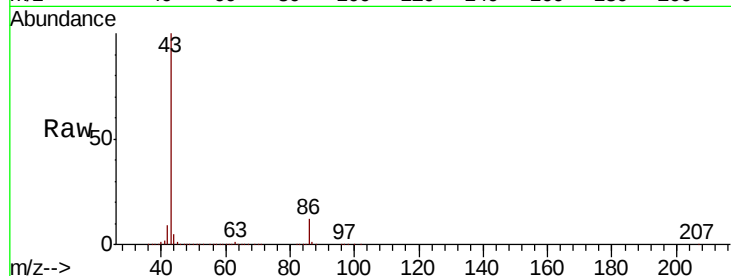
86 11.7 9.1 13.7

Manual Integrations

APPROVED

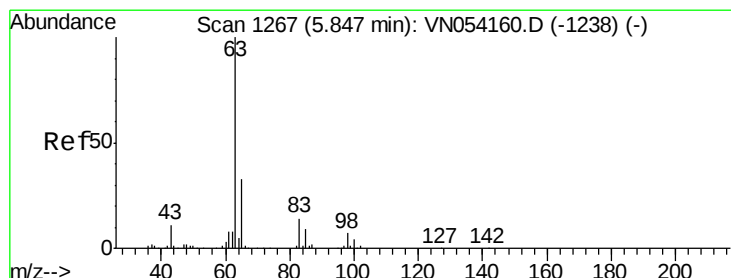
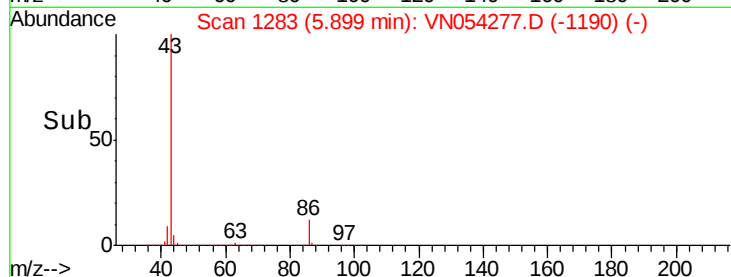
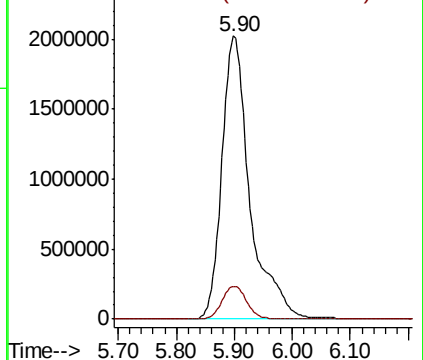
MMDadoda

3/15/2019 10:14:17 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 50.677 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. -0.00 min

Lab File: VN054277.D

Acq: 14 Mar 2019 22:10

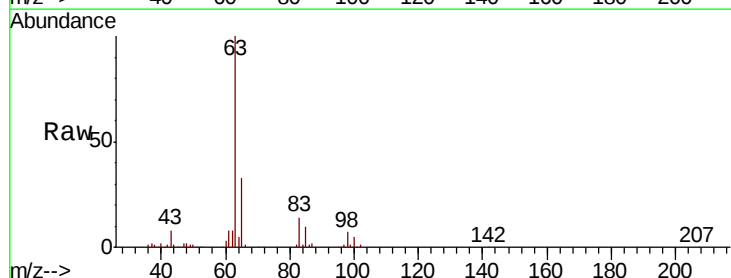
Tgt Ion: 63 Resp: 1213098

Ion Ratio Lower Upper

63 100

98 7.2 3.5 10.5

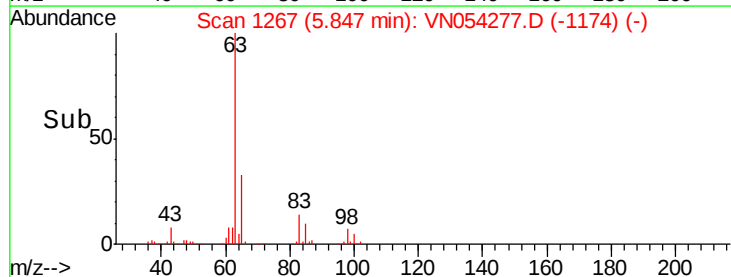
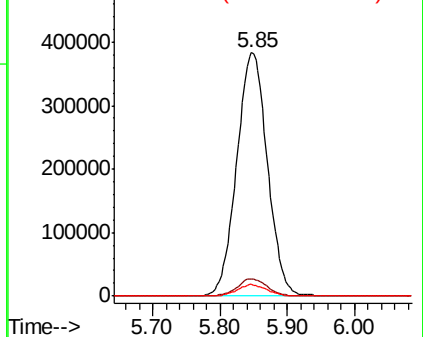
100 4.7 2.0 6.0

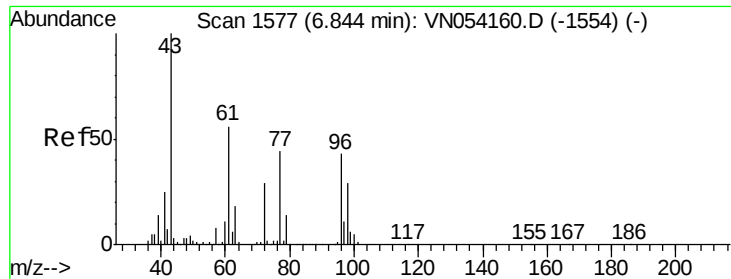


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 234.900 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VN054277.D

Acq: 14 Mar 2019 22:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 1174853

Ion Ratio Lower Upper

43 100

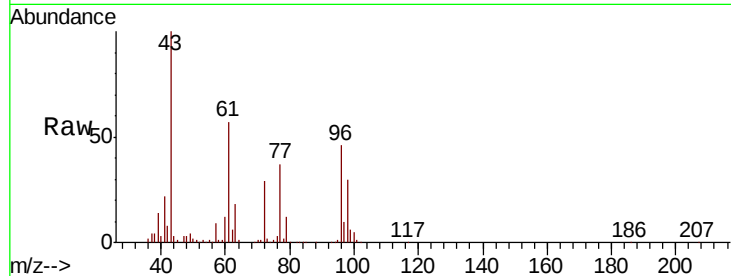
72 29.2 23.0 34.6

Manual Integrations

APPROVED

MMDadoda

3/15/2019 10:14:17 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.85

400000

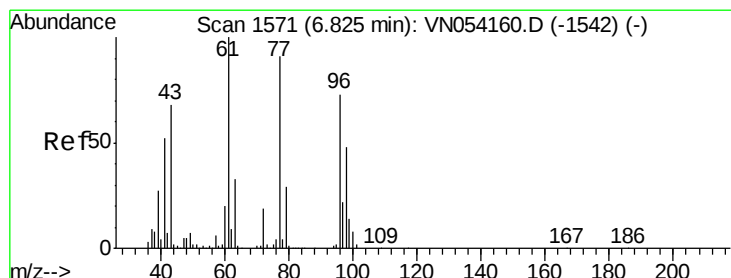
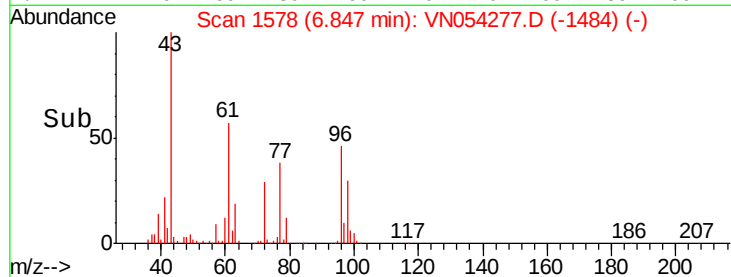
300000

200000

100000

0

Time-->



#26

2,2-Dichloropropane

Concen: 39.522 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VN054277.D

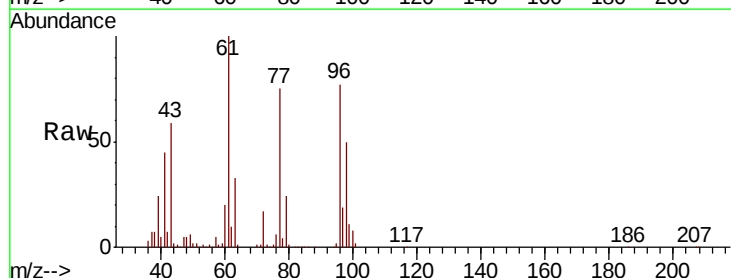
Acq: 14 Mar 2019 22:10

Tgt Ion: 77 Resp: 831977

Ion Ratio Lower Upper

77 100

97 24.4 11.9 35.9



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0

6.82

300000

250000

200000

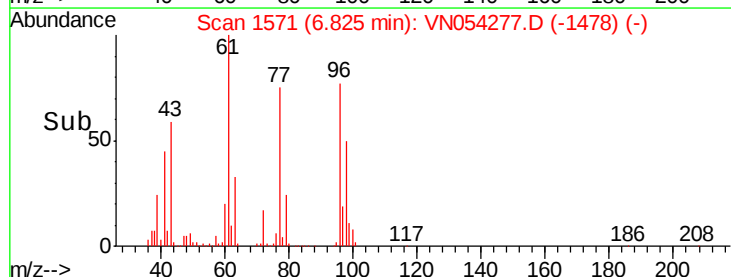
150000

100000

50000

0

Time-->





#27

cis-1,2-Dichloroethene

Concen: 52.412 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN054277.D

Acq: 14 Mar 2019 22:10

Instrument :

MSVOA_N

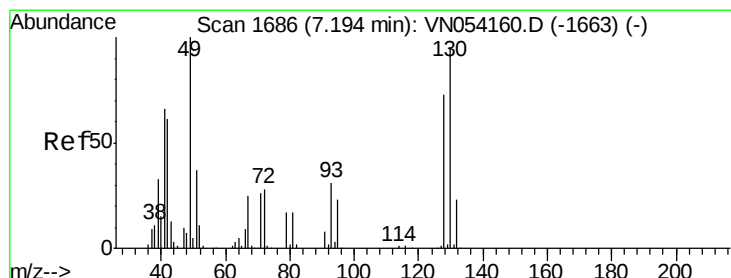
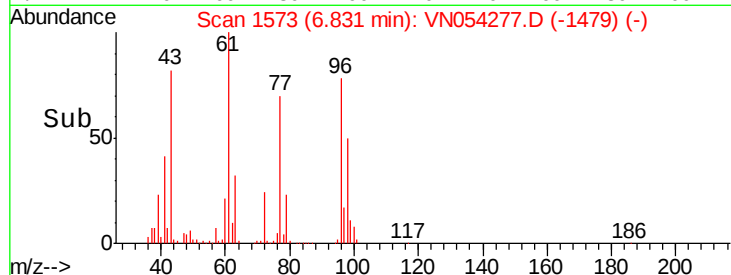
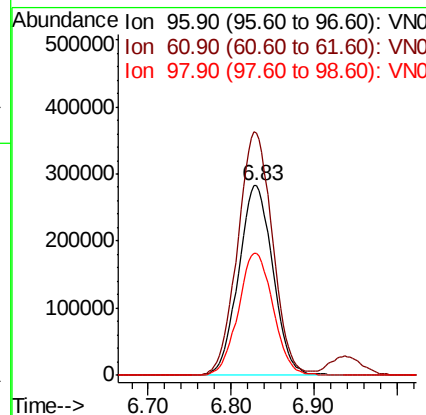
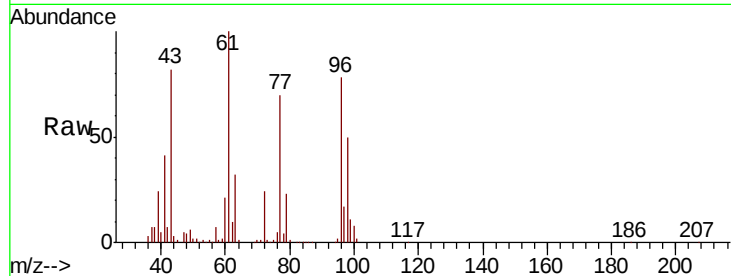
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	96	Resp:	815646
Ion	Ratio	Lower	Upper
96	100		
61	130.0	0.0	273.0
98	65.1	0.0	130.6

Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:14:17 AM



#28

Bromochloromethane

Concen: 49.640 ug/l

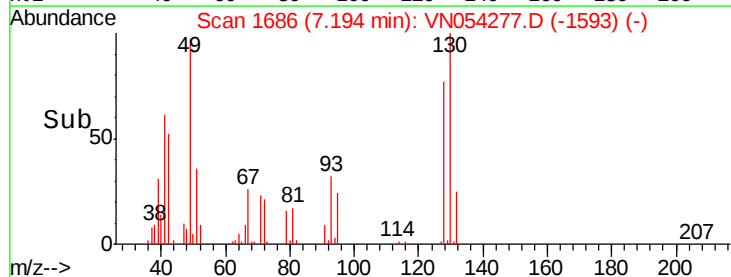
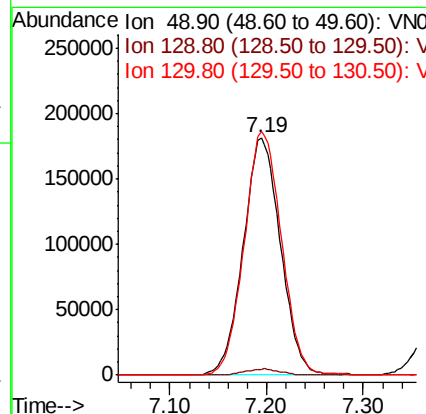
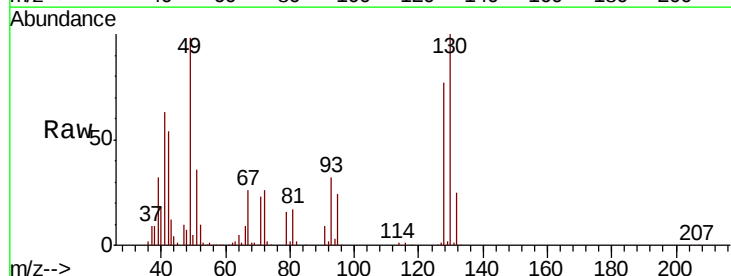
RT: 7.19 min Scan# 1686

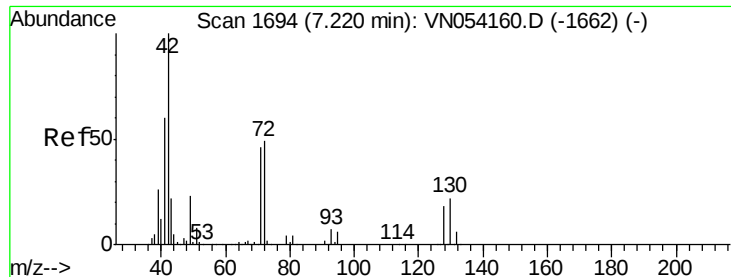
Delta R.T. -0.00 min

Lab File: VN054277.D

Acq: 14 Mar 2019 22:10

Tgt Ion:	49	Resp:	485782
Ion	Ratio	Lower	Upper
49	100		
129	2.5	0.0	4.6
130	102.8	76.7	115.1





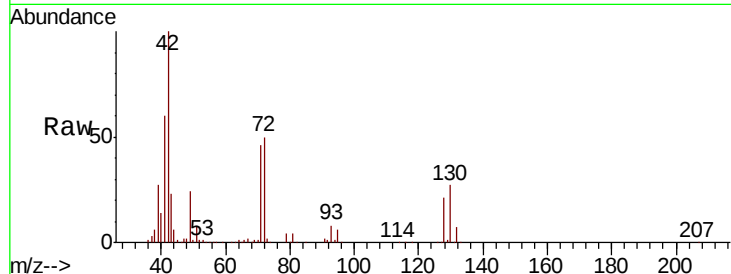
#29
Tetrahydrofuran
Concen: 242.648 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. -0.00 min
Lab File: VN054277.D
Acq: 14 Mar 2019 22:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
42	100		
72	49.0	37.8	56.6
71	45.8	36.2	54.2

Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:14:17 AM

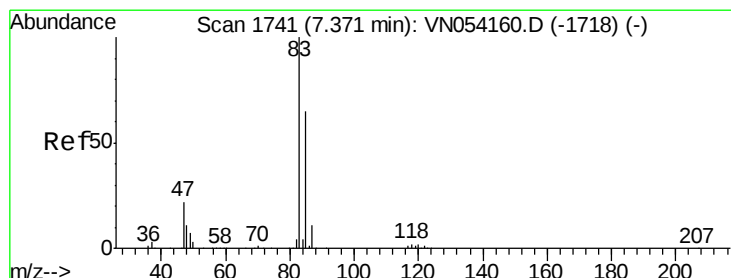
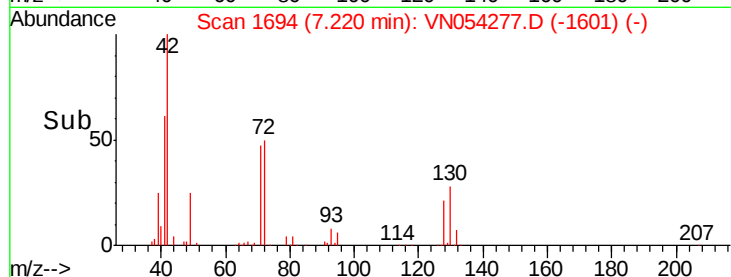
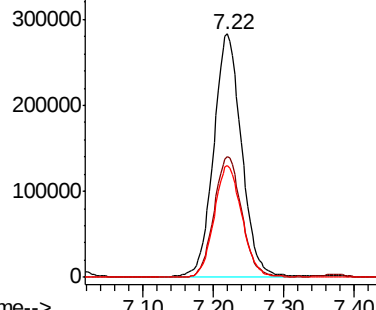


Abundance

Ion 42.00 (41.70 to 42.70): VNO

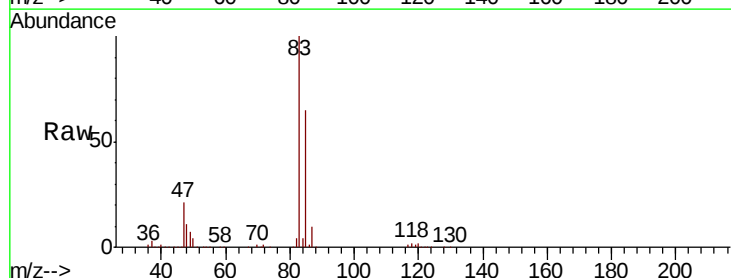
Ion 72.00 (71.70 to 72.70): VNO

Ion 71.00 (70.70 to 71.70): VNO



#30
Chloroform
Concen: 52.068 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN054277.D
Acq: 14 Mar 2019 22:10

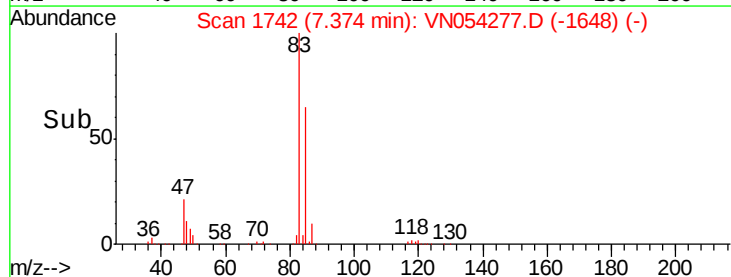
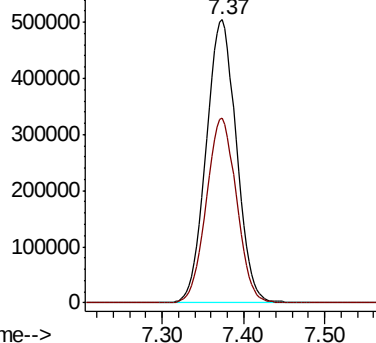
Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.2	52.2	78.4

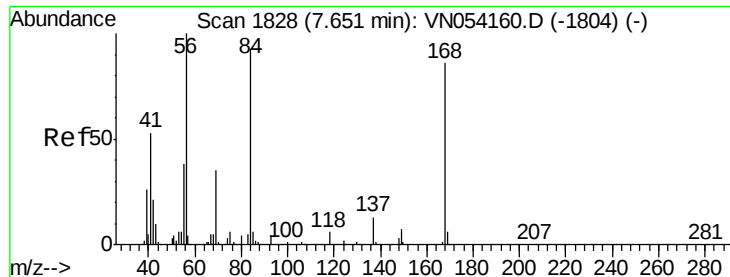


Abundance

Ion 82.90 (82.60 to 83.60): VNO

Ion 84.90 (84.60 to 85.60): VNO





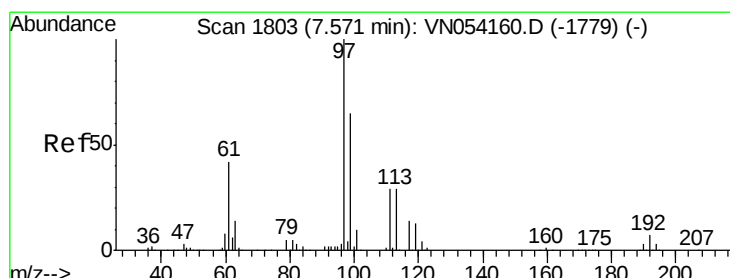
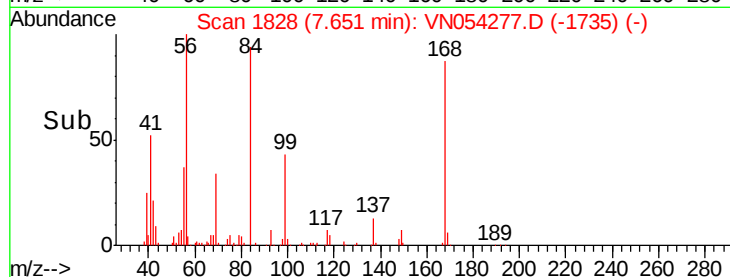
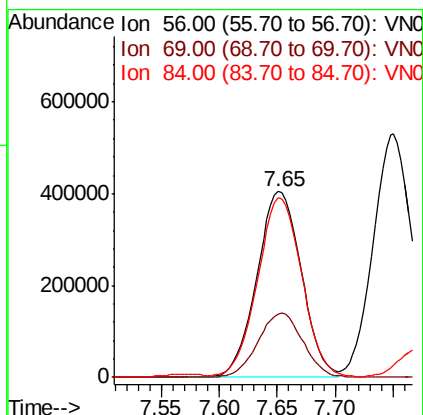
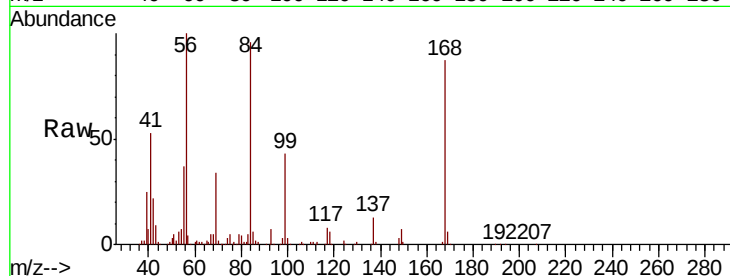
#31
Cyclohexane
Concen: 48.251 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.00 min
Lab File: VN054277.D
Acq: 14 Mar 2019 22:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 1080807
Ion Ratio Lower Upper
56 100
69 34.1 27.8 41.6
84 94.8 74.6 111.8

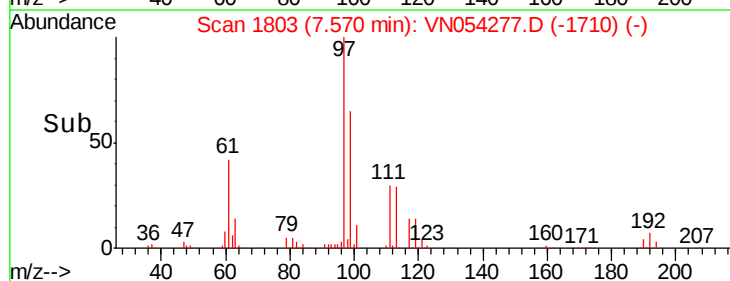
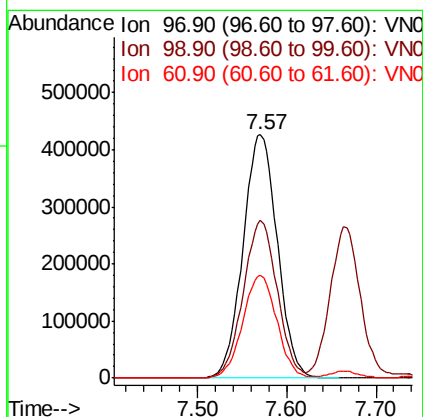
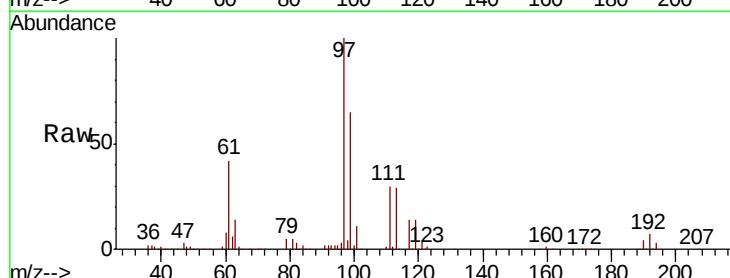
Manual Integrations
APPROVED

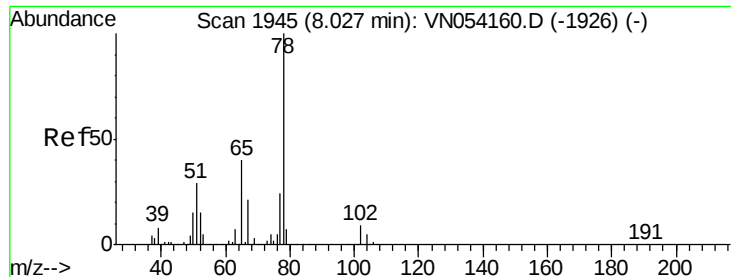
MMDadoda
3/15/2019 10:14:17 AM



#32
1,1,1-Trichloroethane
Concen: 50.657 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. -0.00 min
Lab File: VN054277.D
Acq: 14 Mar 2019 22:10

Tgt Ion: 97 Resp: 1142782
Ion Ratio Lower Upper
97 100
99 64.2 51.5 77.3
61 41.9 33.6 50.4





#33

1,2-Dichloroethane-d4

Concen: 50.381 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN054277.D

Acq: 14 Mar 2019 22:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 65 Resp: 749825

Ion Ratio Lower Upper

65 100

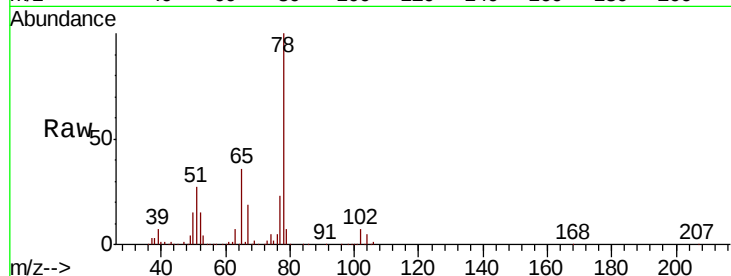
67 53.2 0.0 104.6

Manual Integrations

APPROVED

MMDadoda

3/15/2019 10:14:17 AM



Abundance Ion 64.90 (64.60 to 65.60): VN054160.D (-1926) (-)

Ion 66.90 (66.60 to 67.60): VN054160.D (-1926) (-)

8.03

300000

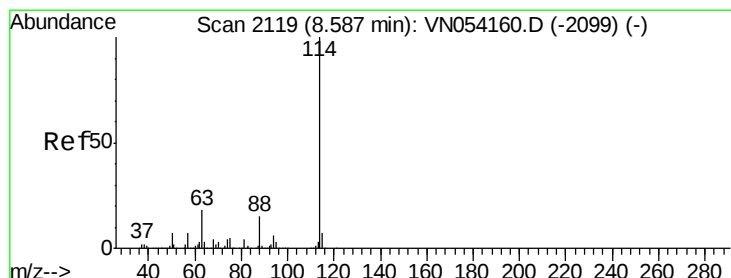
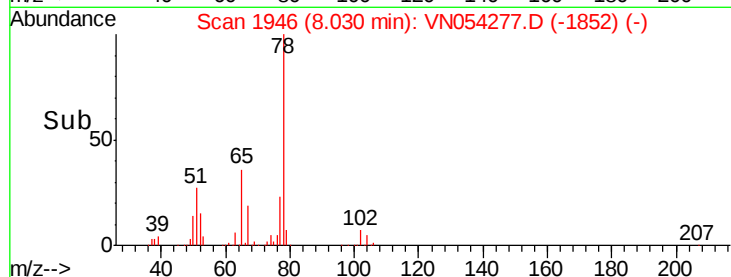
200000

100000

0

7.95 8.00 8.05 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN054277.D

Acq: 14 Mar 2019 22:10

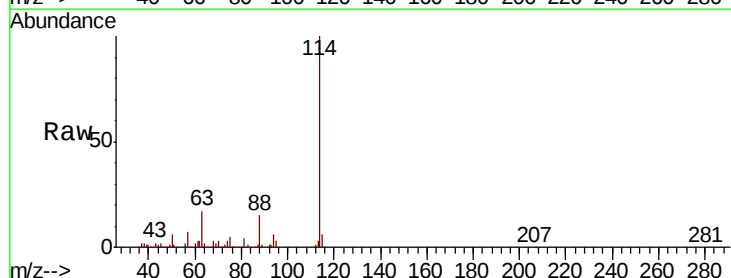
Tgt Ion: 114 Resp: 2128074

Ion Ratio Lower Upper

114 100

63 17.1 0.0 35.2

88 14.6 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): VN054160.D (-2099) (-)

Ion 63.00 (62.70 to 63.70): VN054160.D (-2099) (-)

Ion 87.90 (87.60 to 88.60): VN054160.D (-2099) (-)

8.59

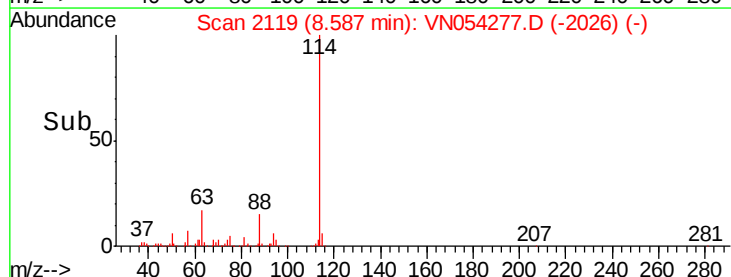
1000000

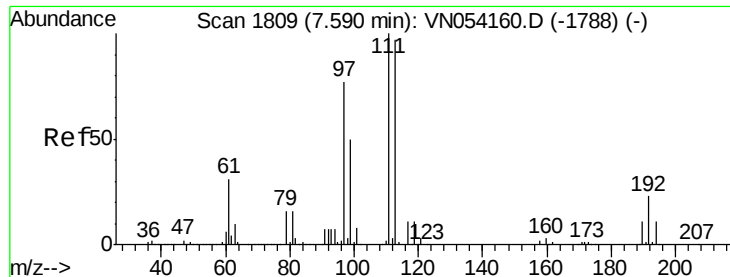
500000

0

8.40 8.60 8.80

Time-->





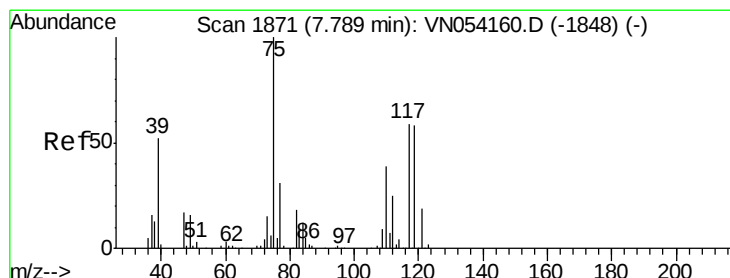
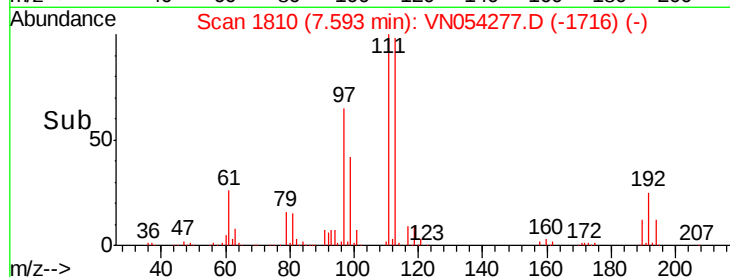
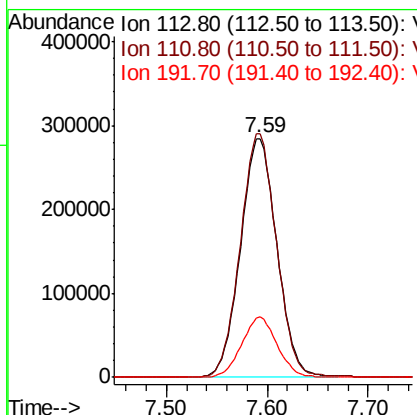
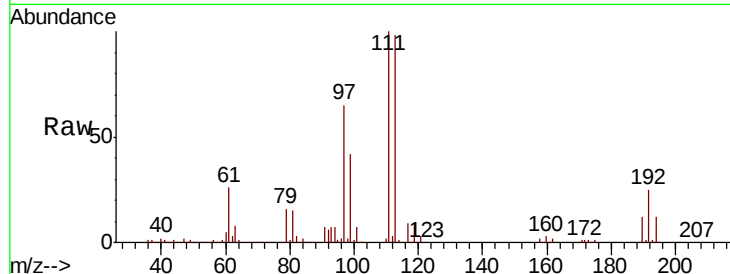
#35
 Dibromofluoromethane
 Concen: 51.934 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054277.D
 Acq: 14 Mar 2019 22:10

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	712811		
111	101.9	82.2	123.4	
192	24.5	19.2	28.8	

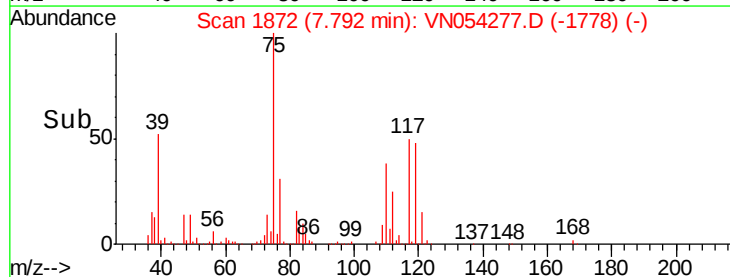
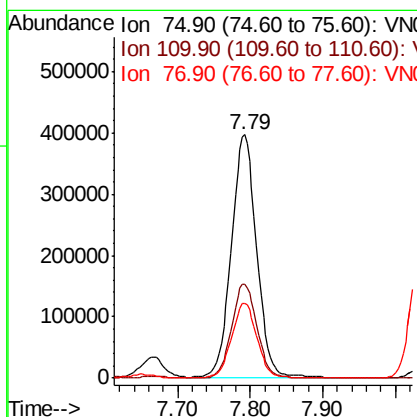
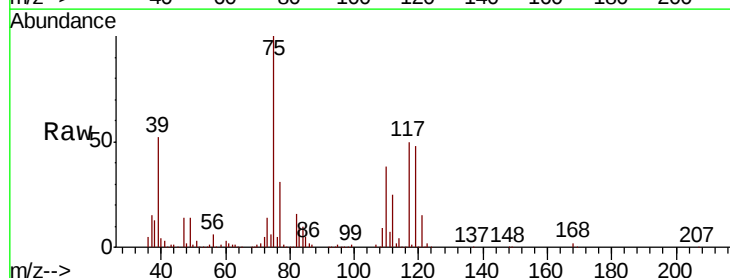
Manual Integrations
 APPROVED

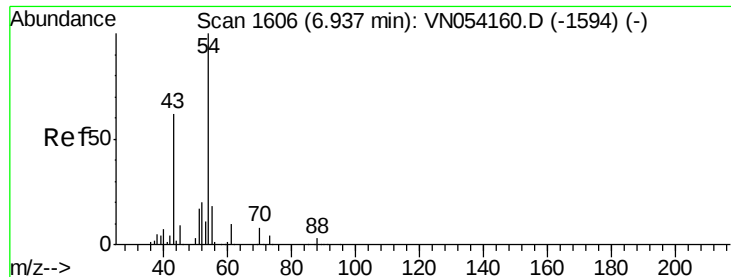
MMDadoda
 3/15/2019 10:14:17 AM



#36
 1,1-Dichloropropene
 Concen: 49.121 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN054277.D
 Acq: 14 Mar 2019 22:10

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	962671		
110	39.0	19.1	57.5	
77	31.3	25.0	37.4	





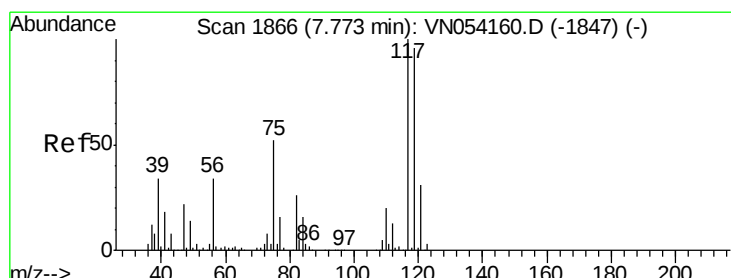
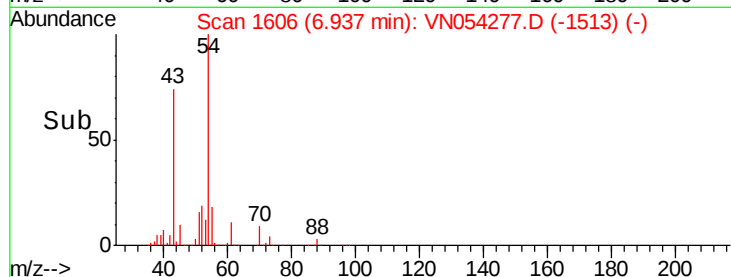
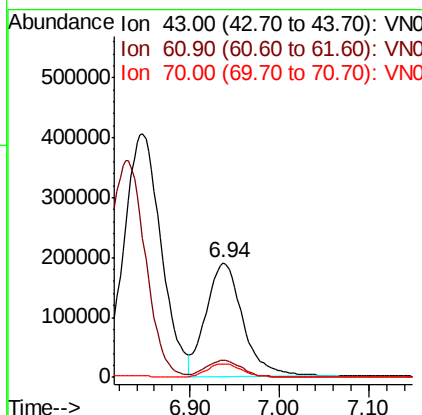
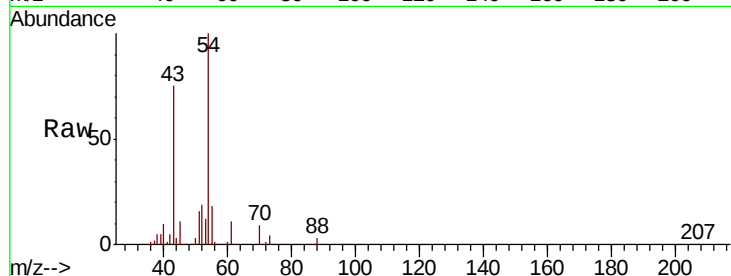
#37
Ethyl Acetate
Concen: 48.001 ug/l
RT: 6.94 min Scan# 1606
Delta R.T. -0.00 min
Lab File: VN054277.D
Acq: 14 Mar 2019 22:10

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
43	100		
61	14.5	11.8	17.6
70	11.2	8.4	12.6

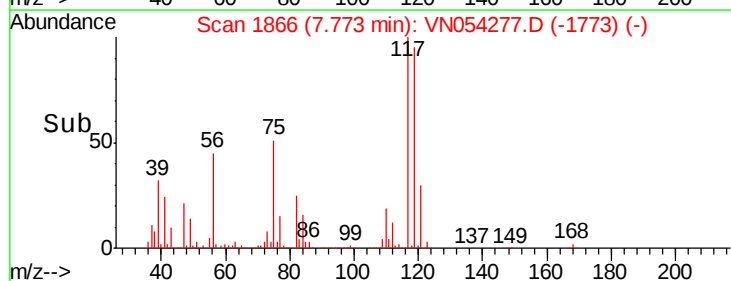
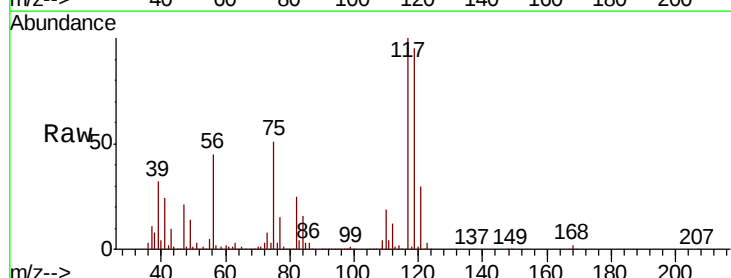
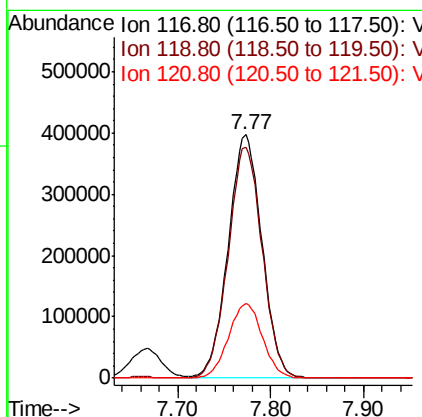
Manual Integrations
APPROVED

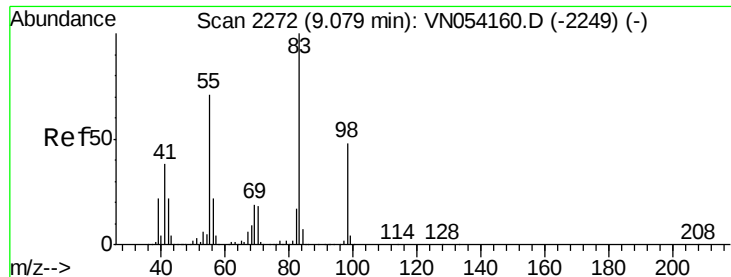
MMDadoda
3/15/2019 10:14:17 AM



#38
Carbon Tetrachloride
Concen: 48.640 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN054277.D
Acq: 14 Mar 2019 22:10

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.8	76.3	114.5
121	30.4	24.6	36.8





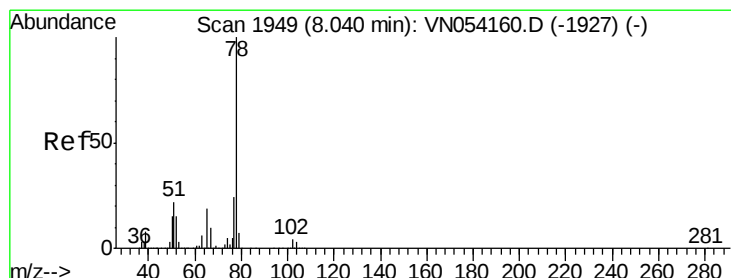
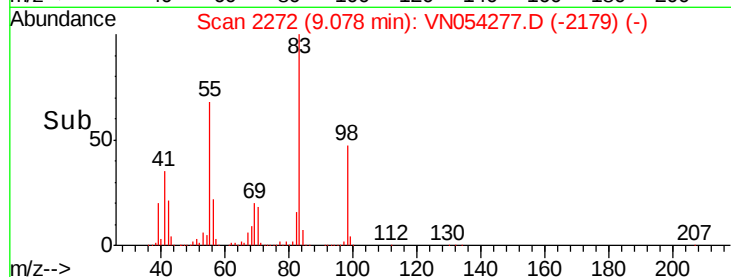
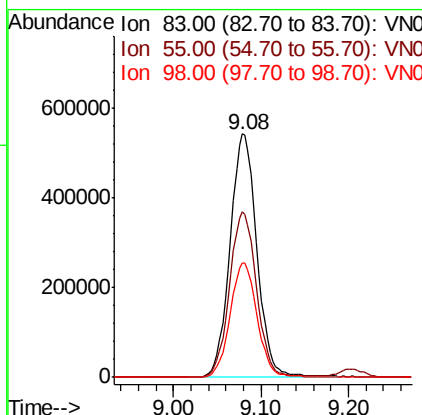
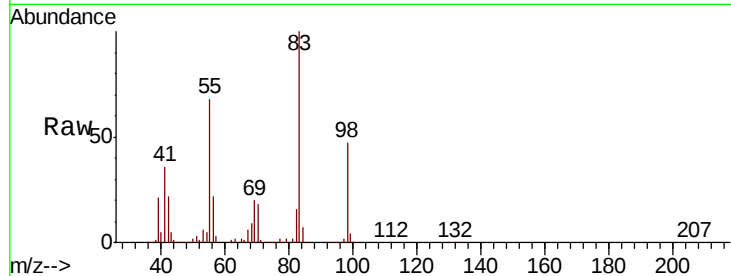
#39
Methylcyclohexane
Concen: 48.023 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN054277.D
Acq: 14 Mar 2019 22:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 1157960
Ion Ratio Lower Upper
83 100
55 68.0 56.6 84.8
98 47.1 38.4 57.6

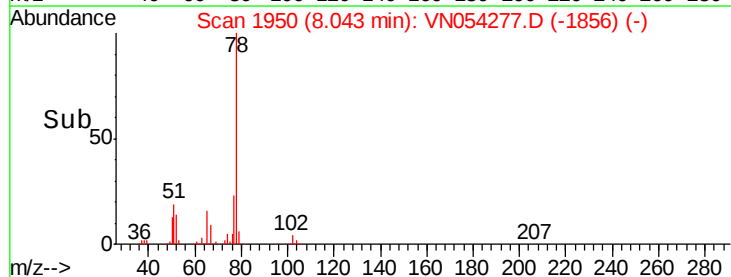
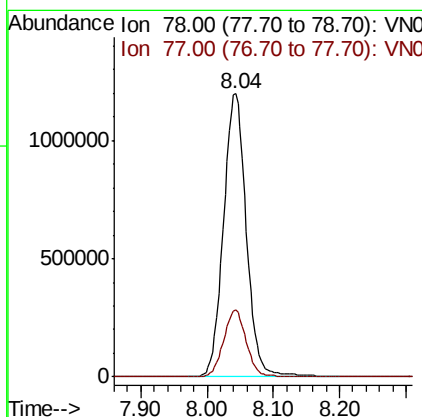
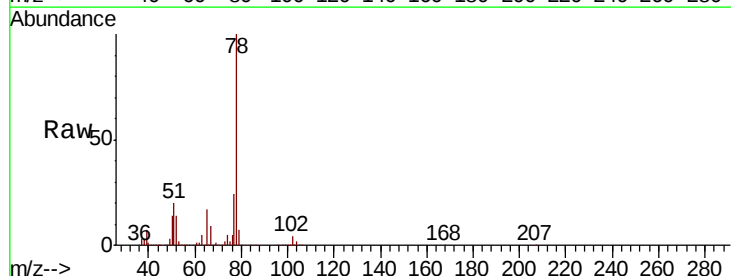
Manual Integrations
APPROVED

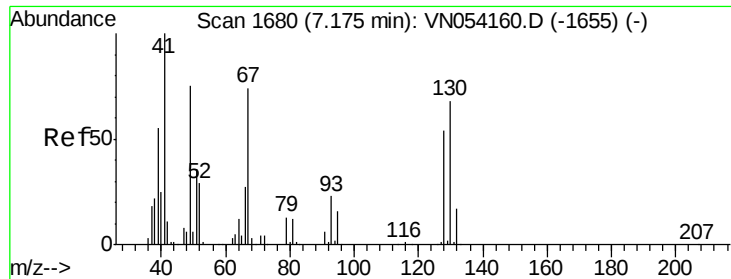
MMDadoda
3/15/2019 10:14:17 AM



#40
Benzene
Concen: 51.178 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN054277.D
Acq: 14 Mar 2019 22:10

Tgt Ion: 78 Resp: 2870095
Ion Ratio Lower Upper
78 100
77 23.6 19.1 28.7





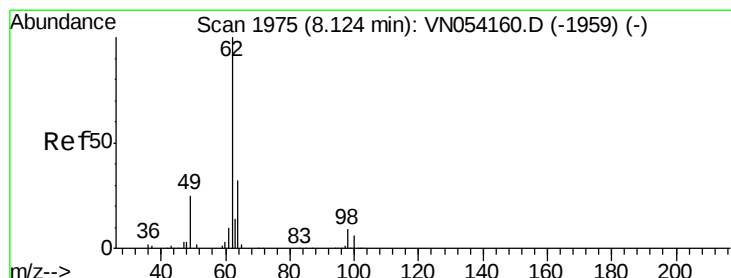
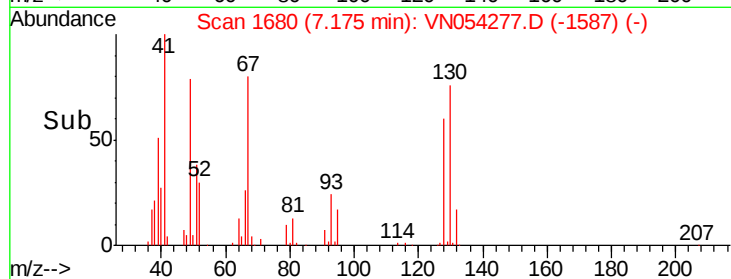
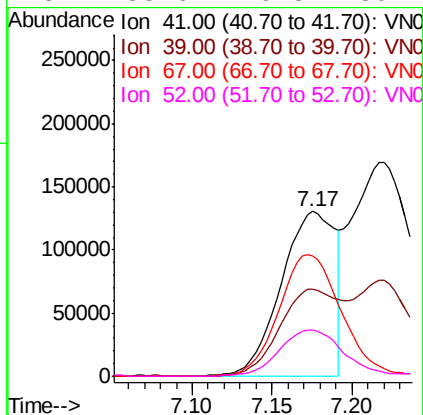
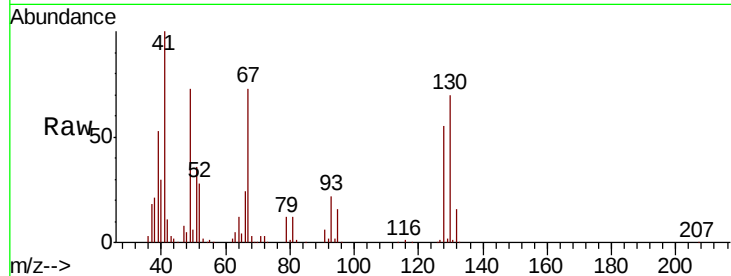
#41
Methacrylonitrile
Concen: 47.710 ug/l
RT: 7.17 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VN054277.D
Acq: 14 Mar 2019 22:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
41	100		
39	61.0	46.8	70.2
67	85.0	67.0	100.4
52	33.6	26.5	39.7

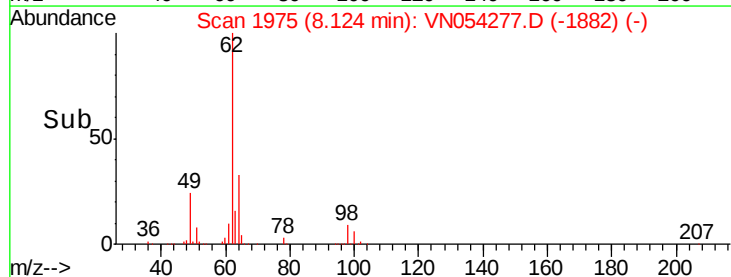
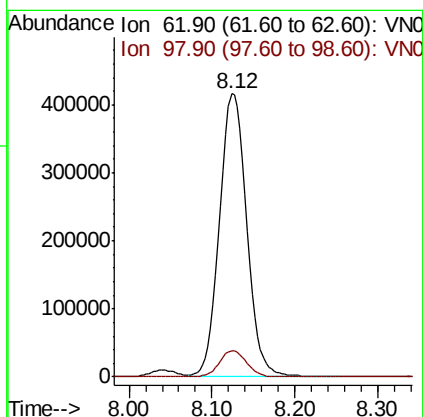
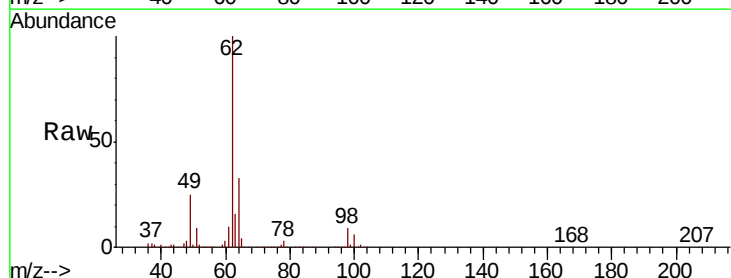
Manual Integrations
APPROVED

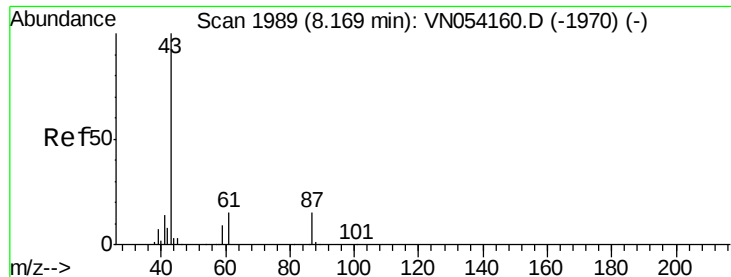
MMDadoda
3/15/2019 10:14:17 AM



#42
1,2-Dichloroethane
Concen: 50.110 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN054277.D
Acq: 14 Mar 2019 22:10

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	18.4





#43

Isopropyl Acetate

Concen: 47.220 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. -0.00 min

Lab File: VN054277.D

Acq: 14 Mar 2019 22:10

Instrument :

MSVOA_N

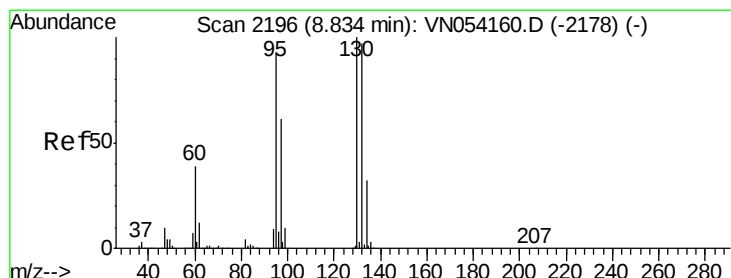
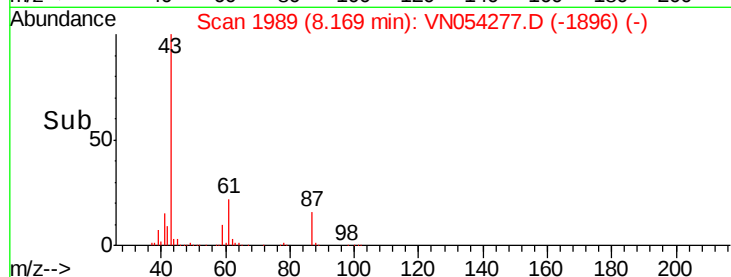
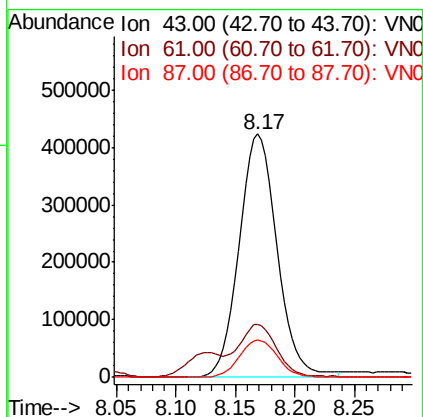
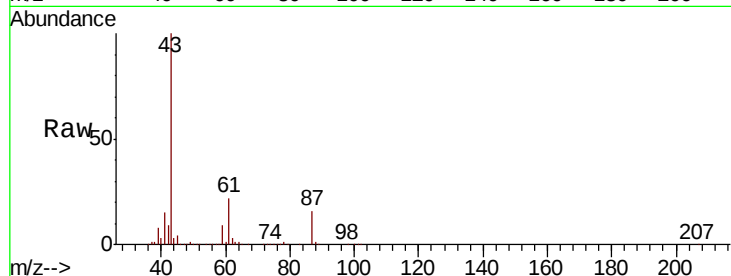
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	43	Resp:	933335
Ion	Ratio	Lower	Upper
43	100		
61	20.9	15.8	23.8
87	15.6	12.0	18.0

Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:14:17 AM



#44

Trichloroethene

Concen: 50.713 ug/l

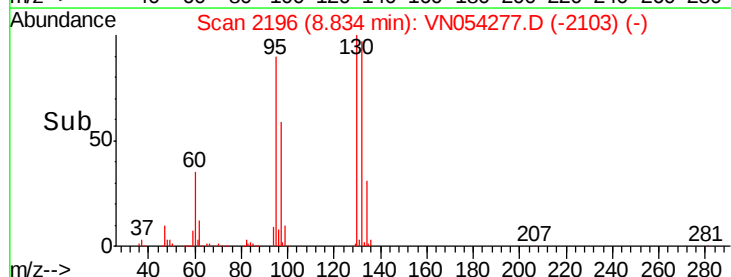
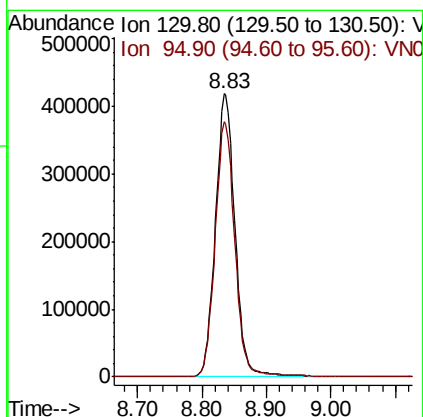
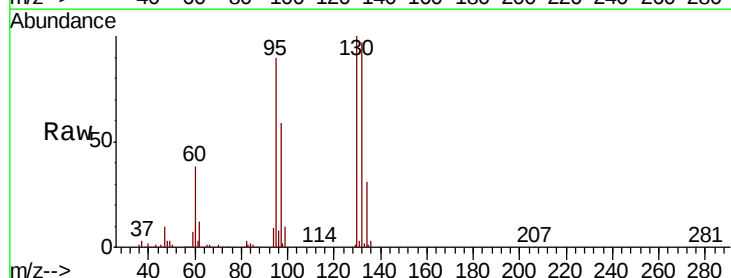
RT: 8.83 min Scan# 2196

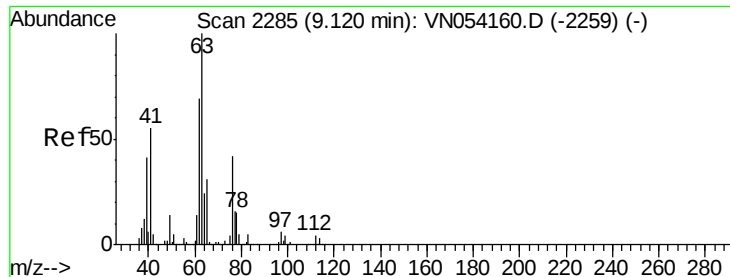
Delta R.T. -0.00 min

Lab File: VN054277.D

Acq: 14 Mar 2019 22:10

Tgt Ion:	130	Resp:	883499
Ion	Ratio	Lower	Upper
130	100		
95	90.0	0.0	185.2





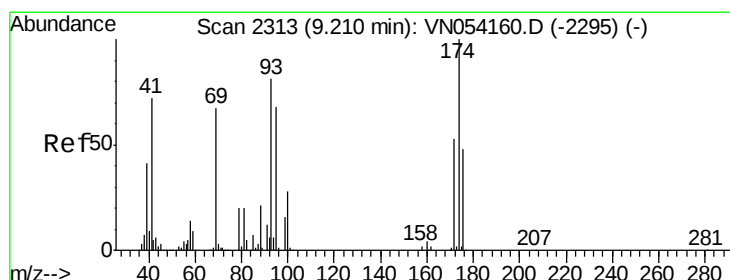
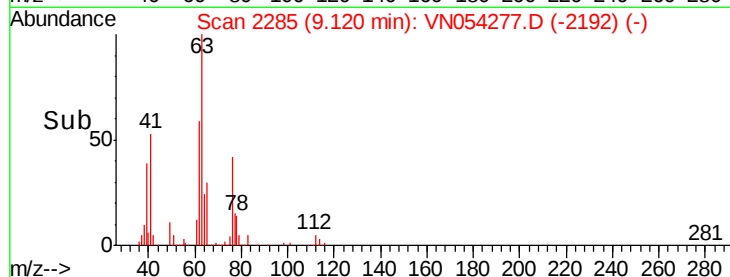
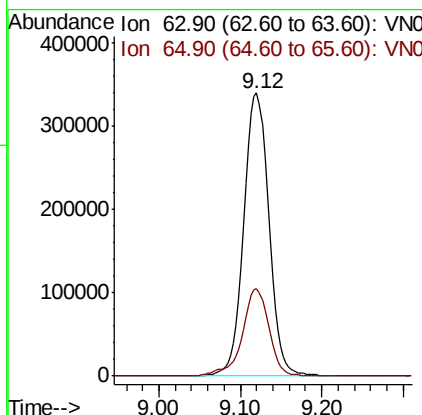
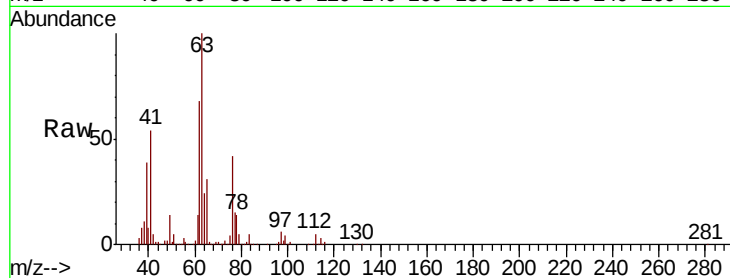
#45
 1,2-Dichloropropane
 Concen: 51.837 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. -0.00 min
 Lab File: VN054277.D
 Acq: 14 Mar 2019 22:10

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion: 63 Resp: 721848
 Ion Ratio Lower Upper
 63 100
 65 30.8 25.0 37.6

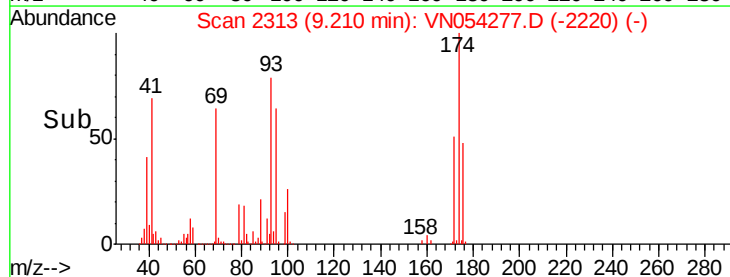
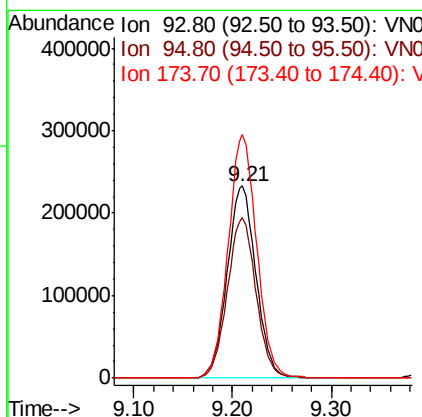
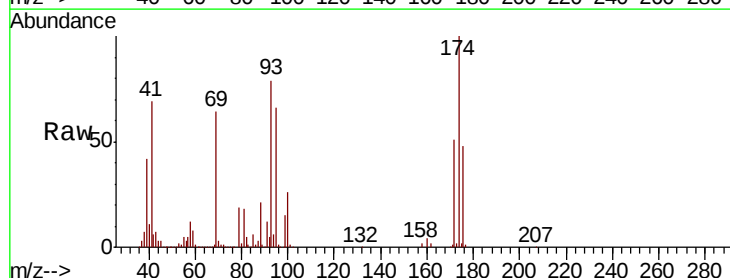
Manual Integrations
 APPROVED

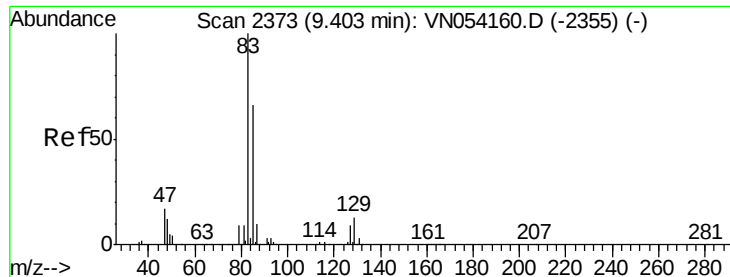
MMDadoda
 3/15/2019 10:14:17 AM



#46
 Dibromomethane
 Concen: 50.490 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. -0.00 min
 Lab File: VN054277.D
 Acq: 14 Mar 2019 22:10

Tgt Ion: 93 Resp: 475054
 Ion Ratio Lower Upper
 93 100
 95 82.6 66.7 100.1
 174 125.7 98.5 147.7





#47

Bromodichloromethane

Concen: 50.930 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN054277.D

Acq: 14 Mar 2019 22:10

Instrument :

MSVOA_N

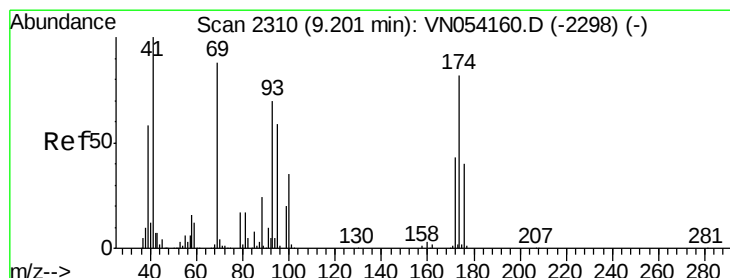
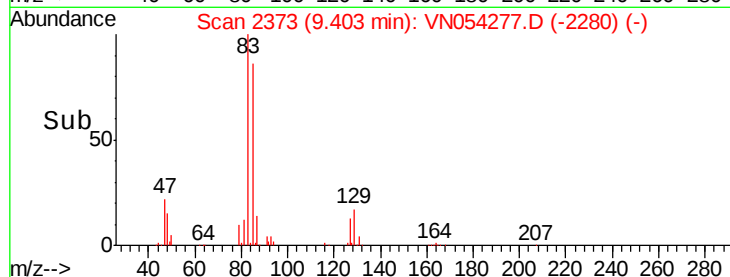
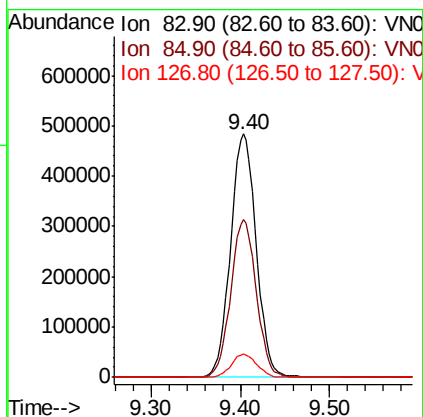
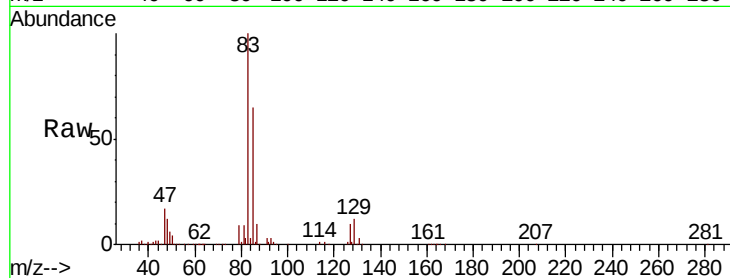
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	83	Resp:	960660
Ion	Ratio	Lower	Upper
83	100		
85	64.7	52.8	79.2
127	9.6	7.4	11.2

Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:14:17 AM



#48

Methyl methacrylate

Concen: 49.177 ug/l

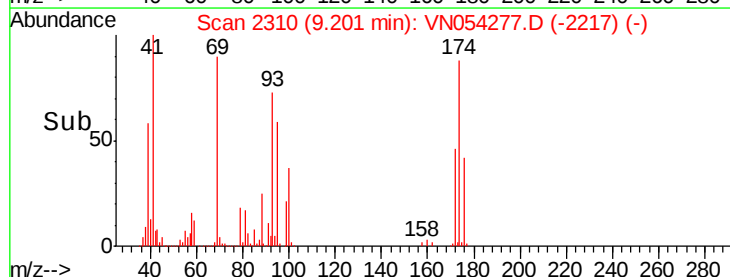
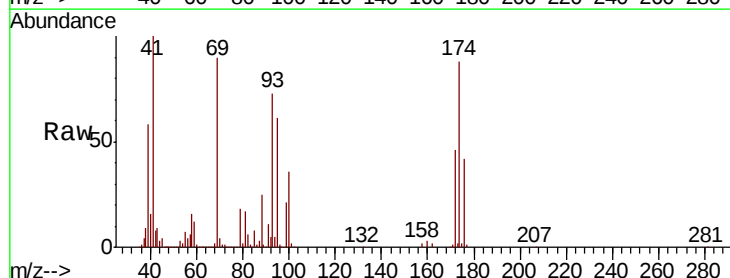
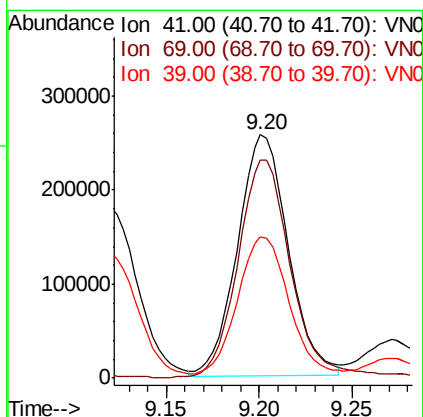
RT: 9.20 min Scan# 2310

Delta R.T. -0.00 min

Lab File: VN054277.D

Acq: 14 Mar 2019 22:10

Tgt Ion:	41	Resp:	493276
Ion	Ratio	Lower	Upper
41	100		
69	94.6	72.6	108.8
39	60.0	47.5	71.3





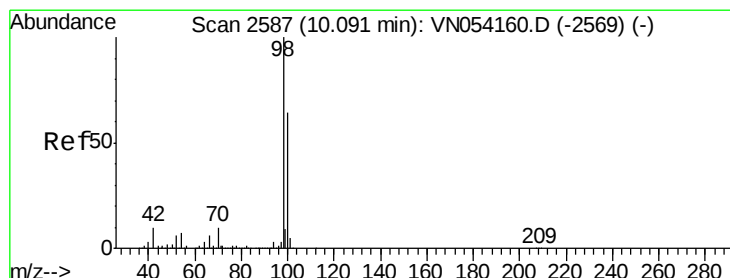
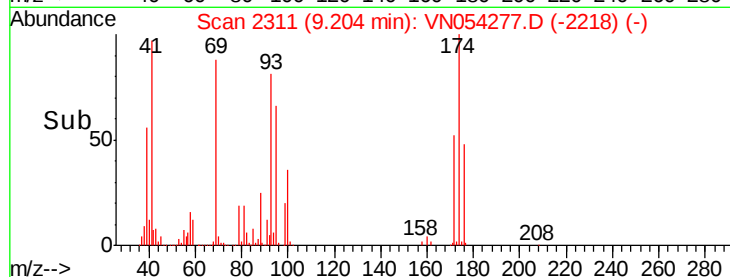
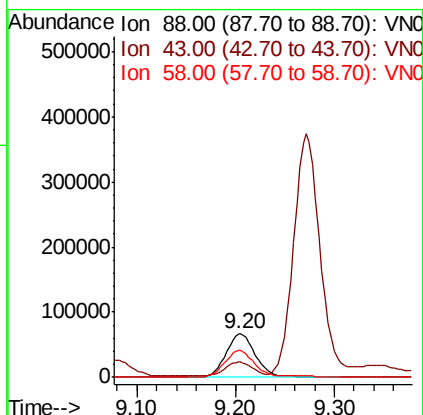
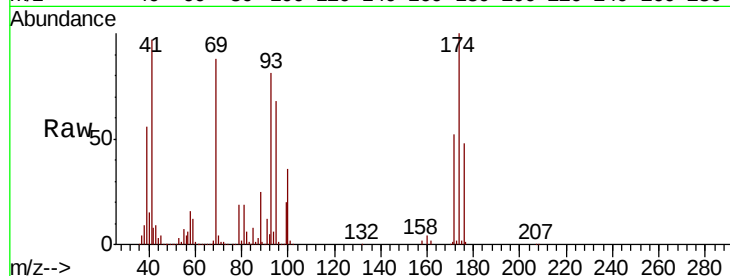
#49
1,4-Dioxane
Concen: 999.594 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. -0.00 min
Lab File: VN054277.D
Acq: 14 Mar 2019 22:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
88	100		
43	30.3	24.1	36.1
58	61.3	50.8	76.2

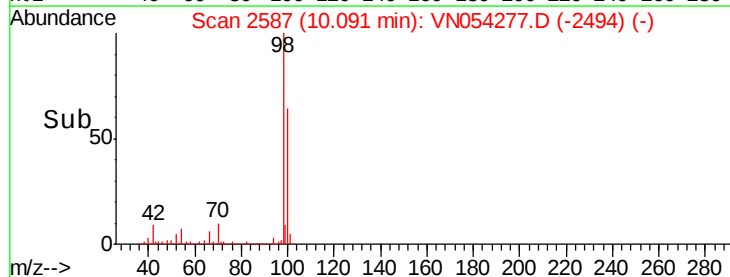
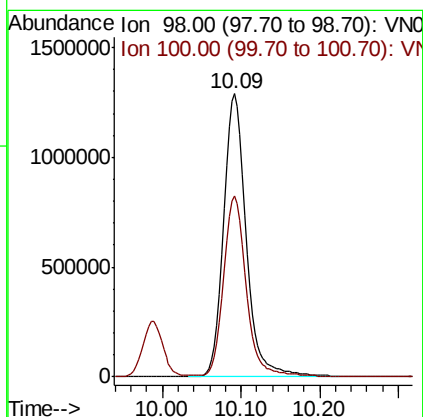
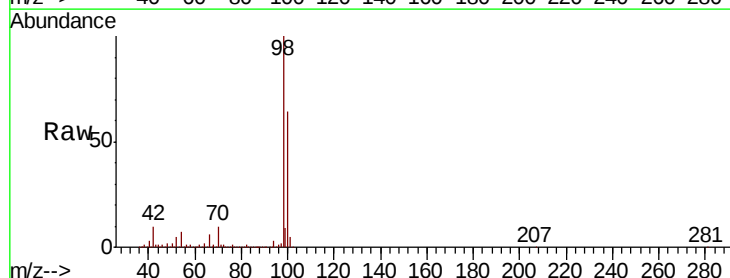
Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:14:17 AM



#50
Toluene-d8
Concen: 50.574 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN054277.D
Acq: 14 Mar 2019 22:10

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.2	76.8





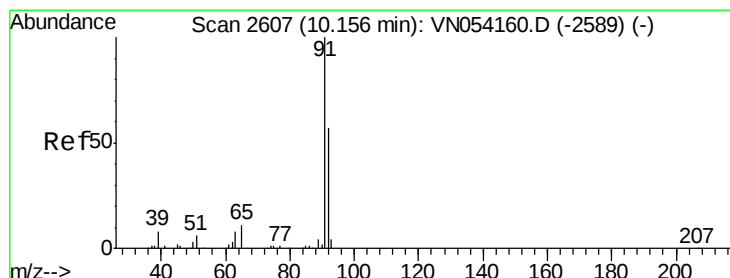
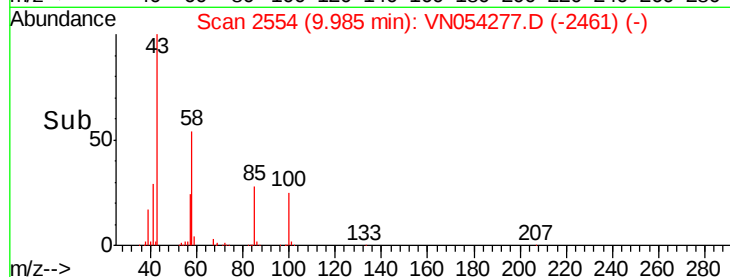
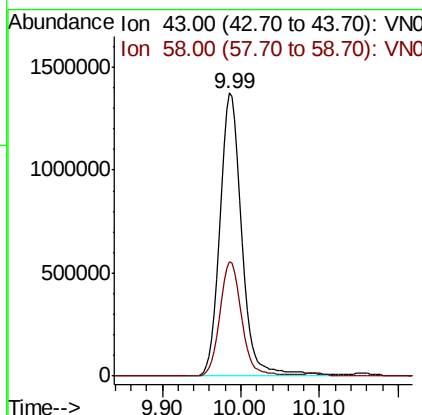
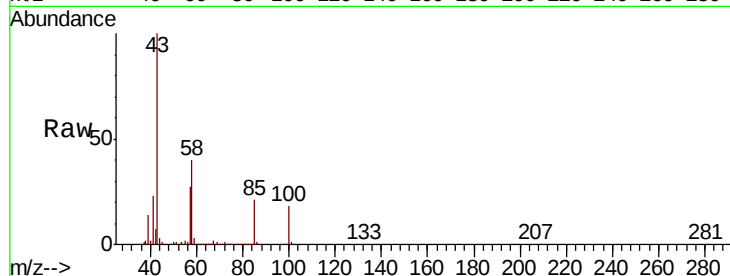
#51
4-Methyl-2-Pentanone
Concen: 251.721 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN054277.D
Acq: 14 Mar 2019 22:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 2633010
Ion Ratio Lower Upper
43 100
58 40.3 31.8 47.6

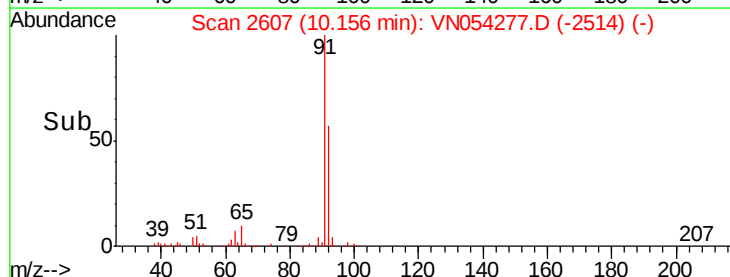
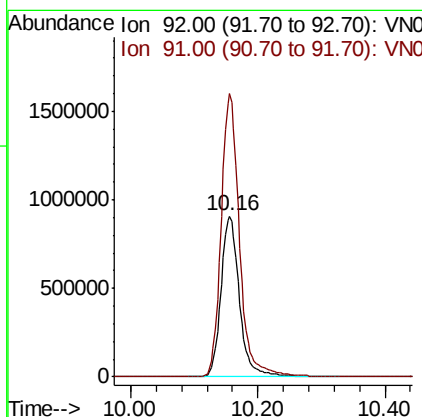
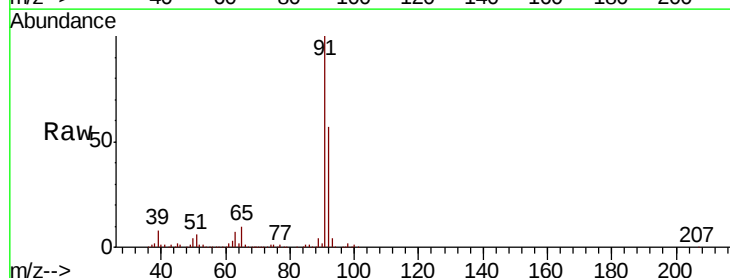
Manual Integrations
APPROVED

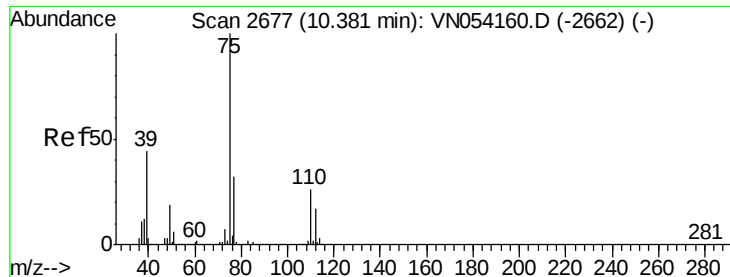
MMDadoda
3/15/2019 10:14:17 AM



#52
Toluene
Concen: 51.327 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. -0.00 min
Lab File: VN054277.D
Acq: 14 Mar 2019 22:10

Tgt Ion: 92 Resp: 1825125
Ion Ratio Lower Upper
92 100
91 175.5 140.7 211.1





#53

t-1,3-Dichloropropene

Concen: 42.266 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. -0.00 min

Lab File: VN054277.D

Acq: 14 Mar 2019 22:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 75 Resp: 904938

Ion Ratio Lower Upper

75 100

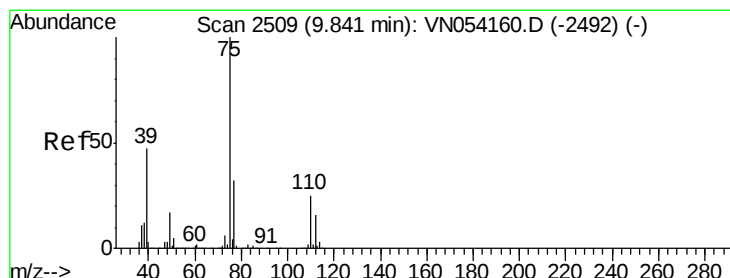
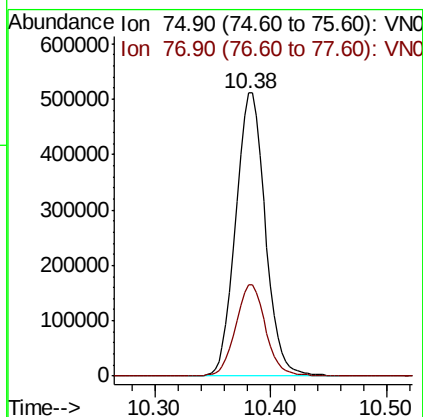
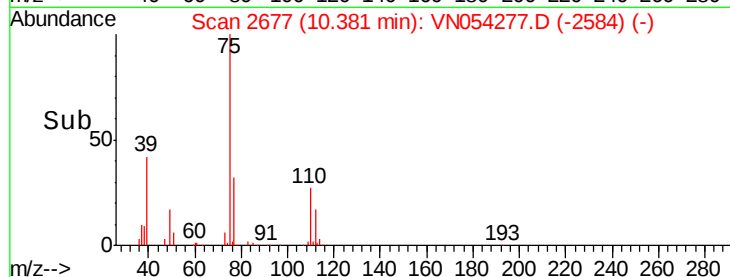
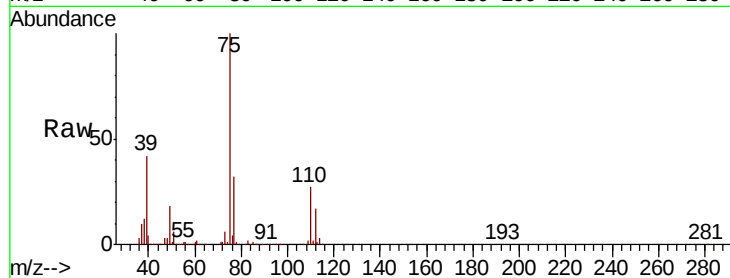
77 32.1 25.8 38.8

Manual Integrations

APPROVED

MMDadoda

3/15/2019 10:14:17 AM



#54

cis-1,3-Dichloropropene

Concen: 49.240 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VN054277.D

Acq: 14 Mar 2019 22:10

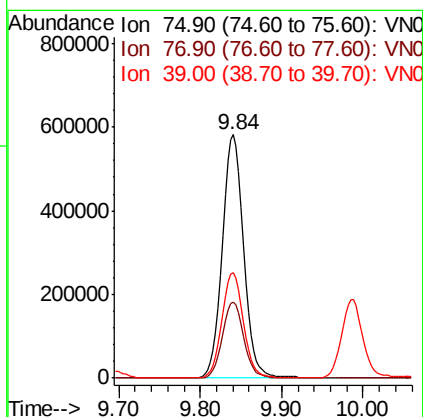
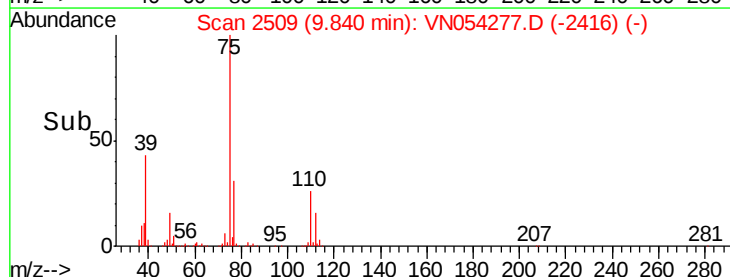
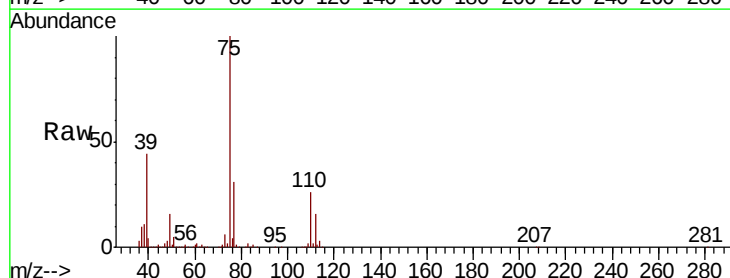
Tgt Ion: 75 Resp: 1082304

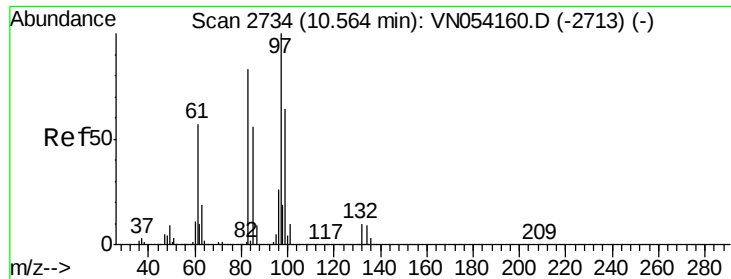
Ion Ratio Lower Upper

75 100

77 31.1 25.4 38.0

39 43.5 37.2 55.8





#55

1,1,2-Trichloroethane

Concen: 52.019 ug/l

RT: 10.56 min Scan# 2734

Delta R.T. -0.00 min

Lab File: VN054277.D

Acq: 14 Mar 2019 22:10

Instrument :

MSVOA_N

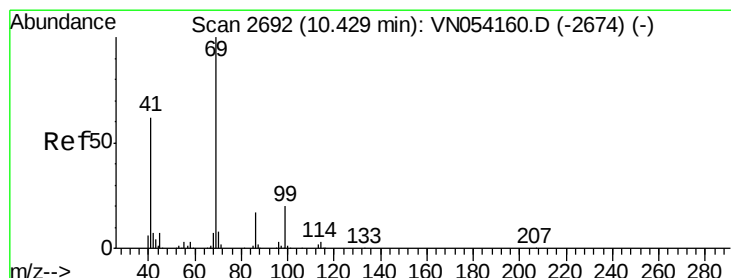
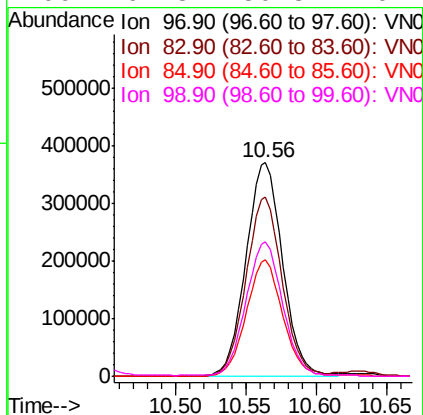
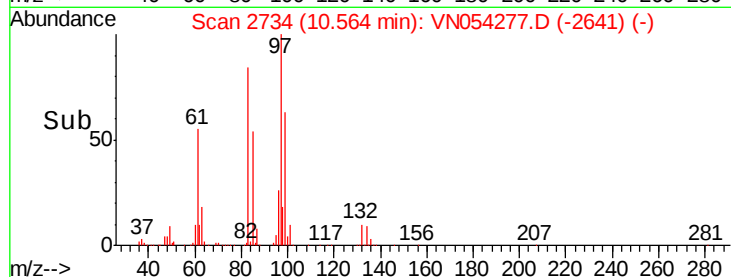
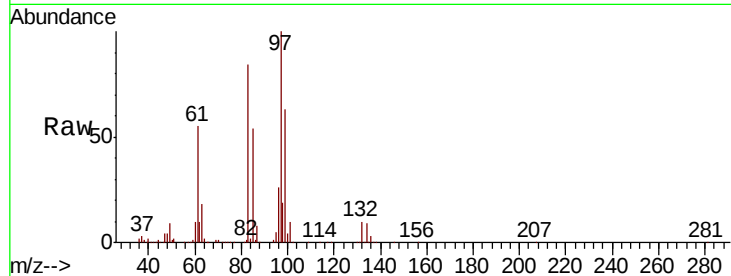
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	97	Resp:	675410
Ion	Ratio	Lower	Upper
97	100		
83	83.7	66.6	100.0
85	54.5	44.4	66.6
99	62.8	50.8	76.2

Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:14:17 AM



#56

Ethyl methacrylate

Concen: 51.117 ug/l

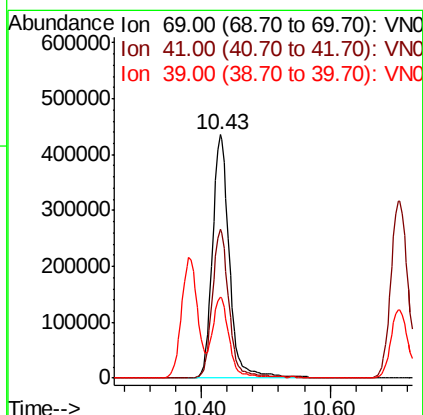
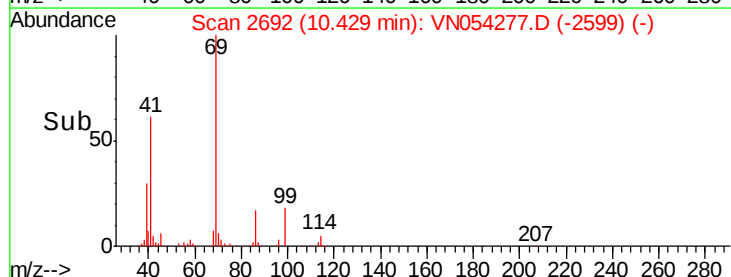
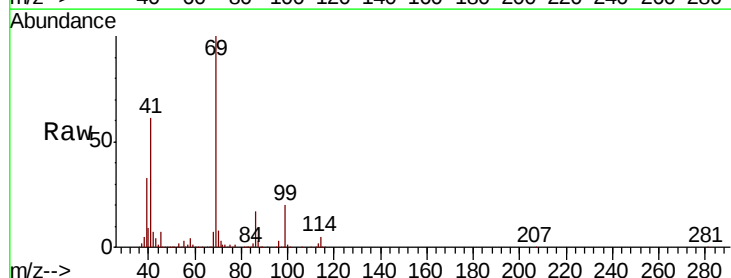
RT: 10.43 min Scan# 2692

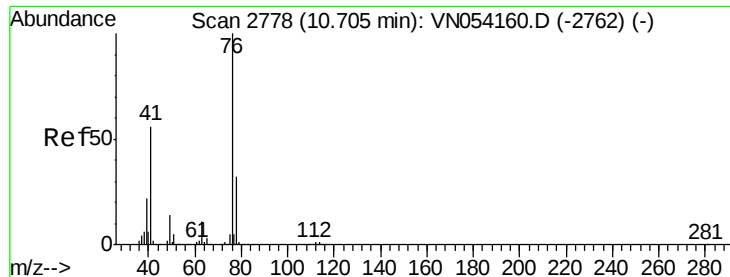
Delta R.T. -0.00 min

Lab File: VN054277.D

Acq: 14 Mar 2019 22:10

Tgt Ion:	69	Resp:	791372
Ion	Ratio	Lower	Upper
69	100		
41	59.6	49.4	74.2
39	32.9	28.3	42.5





#57

1,3-Dichloropropane

Concen: 51.439 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN054277.D

Acq: 14 Mar 2019 22:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 76 Resp: 1092087

Ion Ratio Lower Upper

76 100

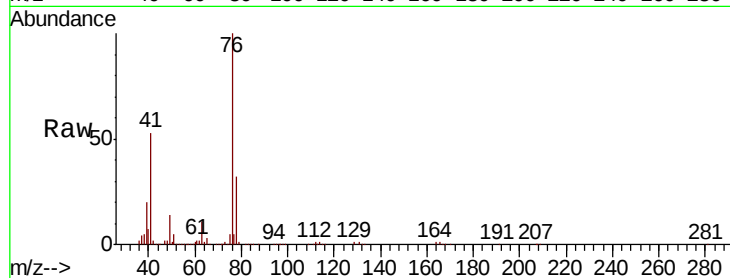
78 32.4 25.7 38.5

Manual Integrations

APPROVED

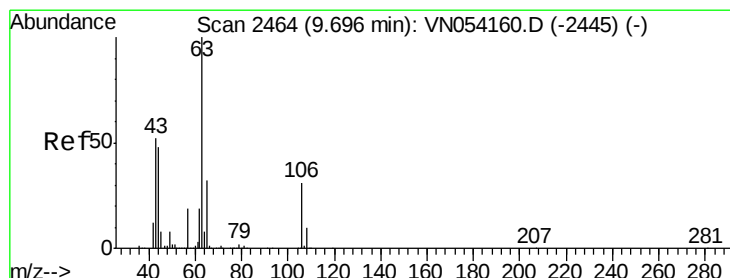
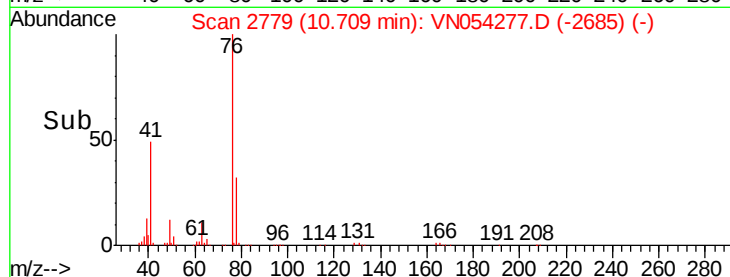
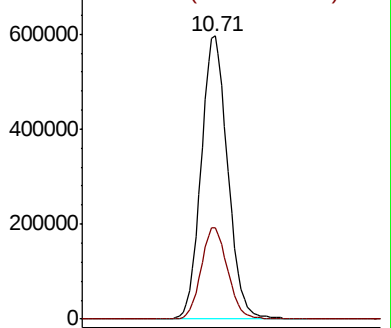
MMDadoda

3/15/2019 10:14:17 AM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 225.861 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. -0.00 min

Lab File: VN054277.D

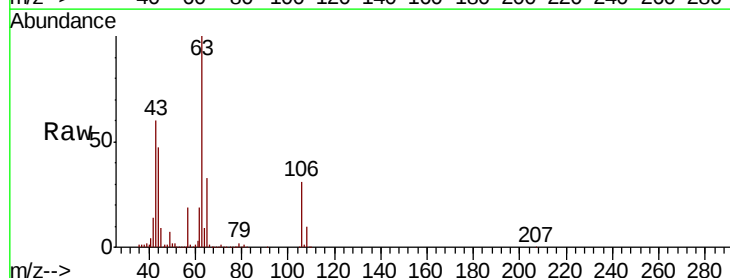
Acq: 14 Mar 2019 22:10

Tgt Ion: 63 Resp: 1505322

Ion Ratio Lower Upper

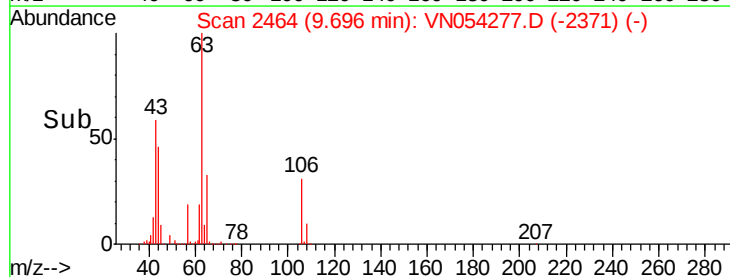
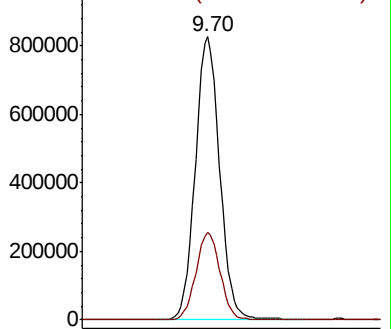
63 100

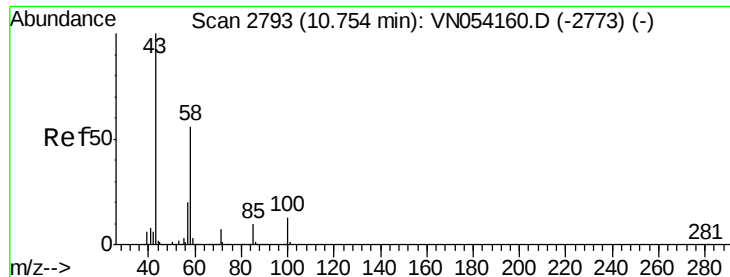
106 30.8 24.4 36.6



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





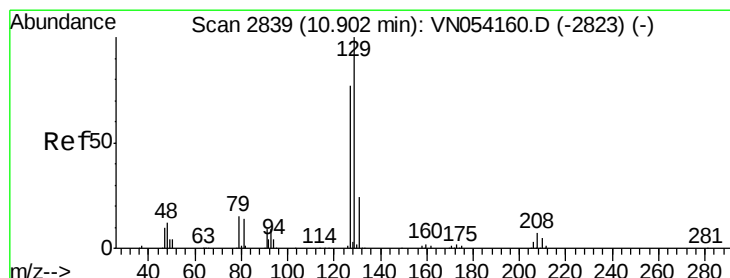
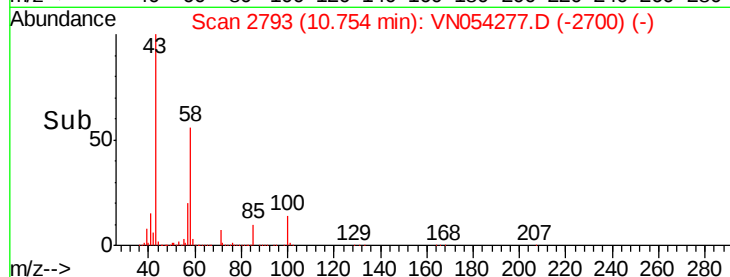
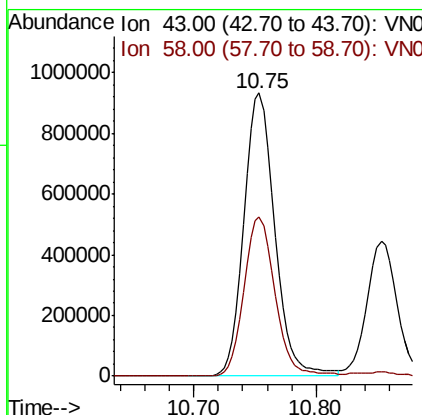
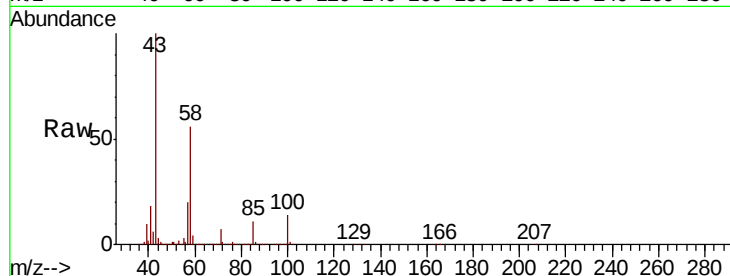
#59
2-Hexanone
Concen: 232.365 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. -0.00 min
Lab File: VN054277.D
Acq: 14 Mar 2019 22:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 1617275
Ion Ratio Lower Upper
43 100
58 56.7 28.0 83.9

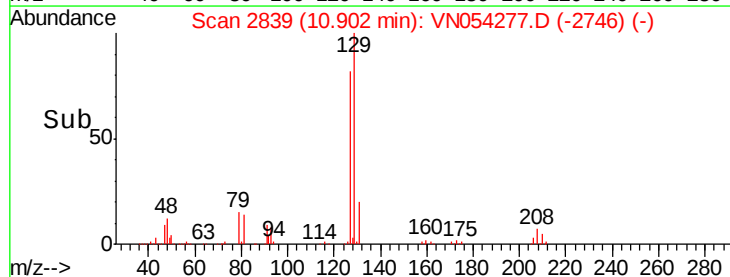
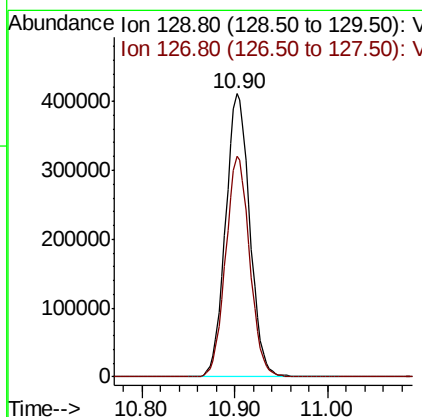
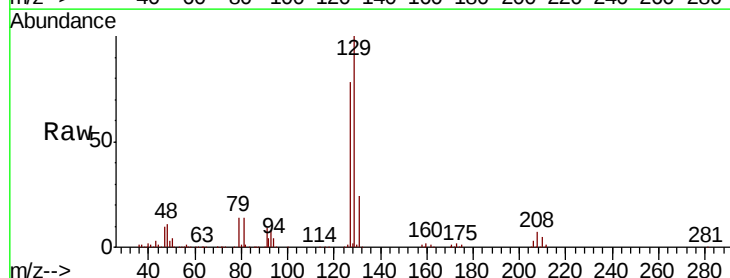
Manual Integrations
APPROVED

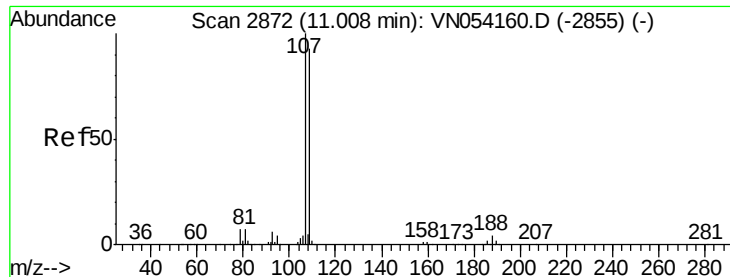
MMDadoda
3/15/2019 10:14:17 AM



#60
Dibromochloromethane
Concen: 50.989 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN054277.D
Acq: 14 Mar 2019 22:10

Tgt Ion: 129 Resp: 745162
Ion Ratio Lower Upper
129 100
127 77.4 38.6 115.8





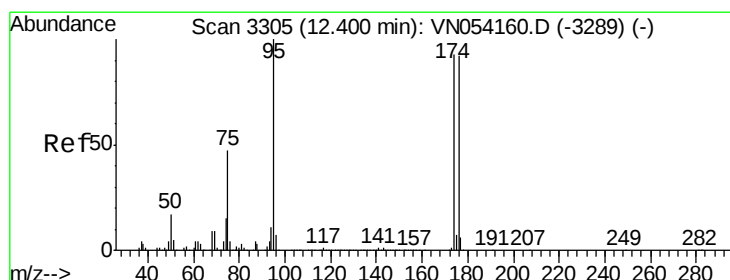
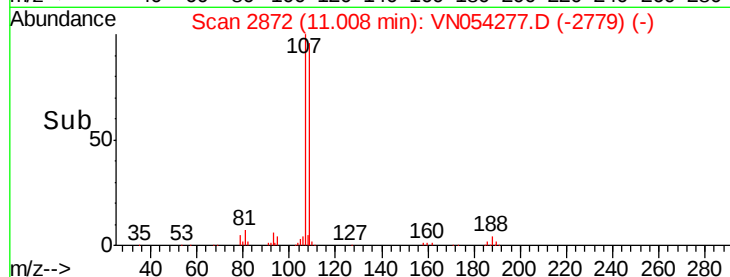
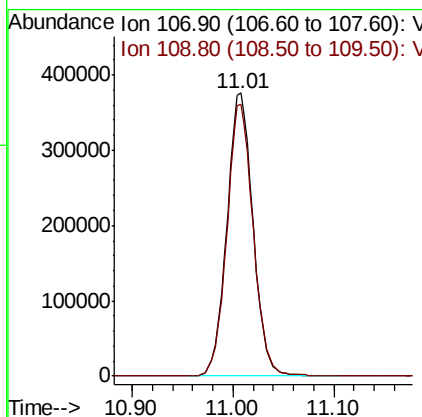
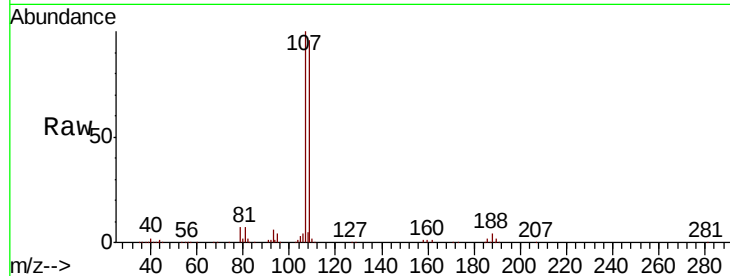
#61
 1,2-Dibromoethane
 Concen: 51.456 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. -0.00 min
 Lab File: VN054277.D
 Acq: 14 Mar 2019 22:10

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
107	100		
109	96.6	75.9	113.9

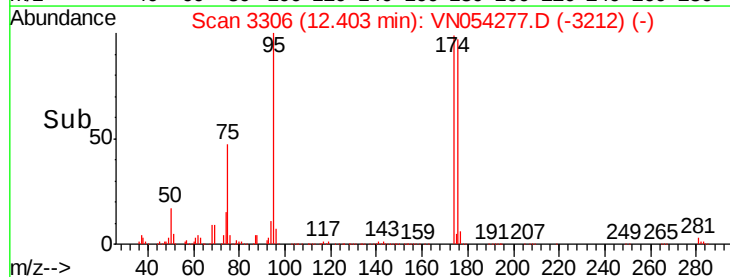
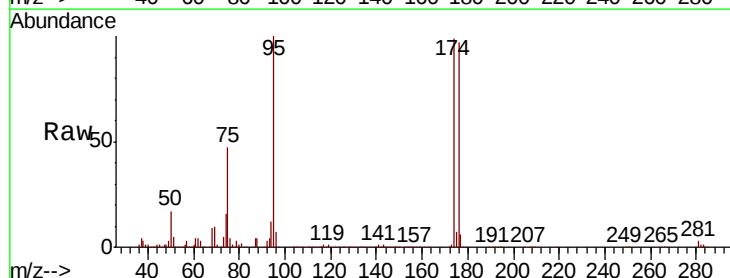
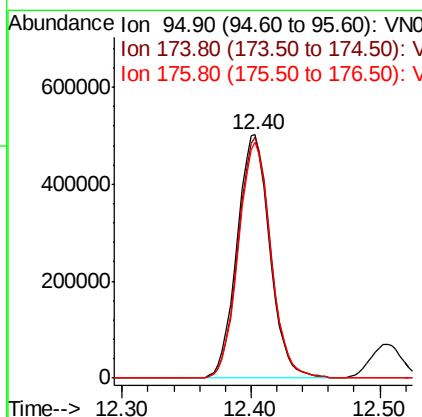
Manual Integrations
 APPROVED

MMDadoda
 3/15/2019 10:14:17 AM



#62
 4-Bromofluorobenzene
 Concen: 50.089 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN054277.D
 Acq: 14 Mar 2019 22:10

Tgt Ion	Ratio	Lower	Upper
95	100		
174	98.2	0.0	191.0
176	96.1	0.0	187.4





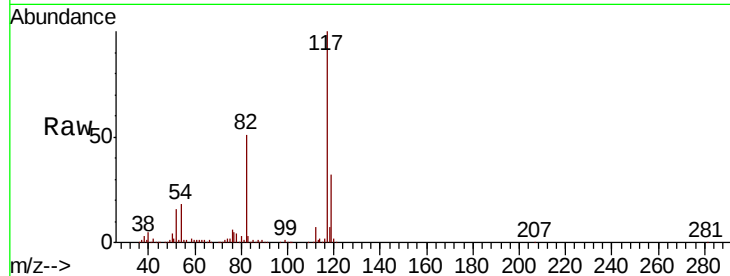
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054277.D
Acq: 14 Mar 2019 22:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

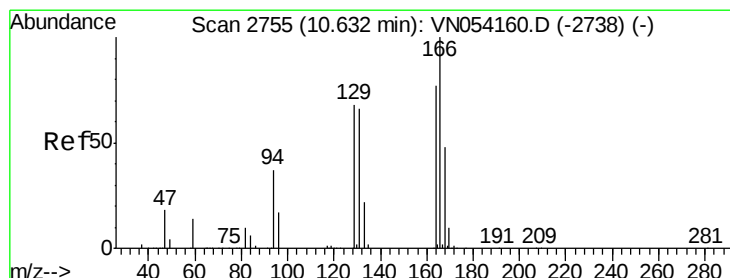
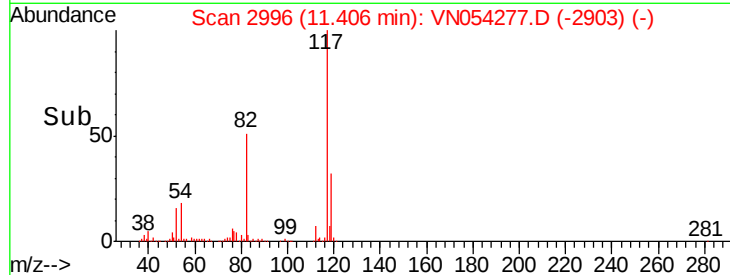
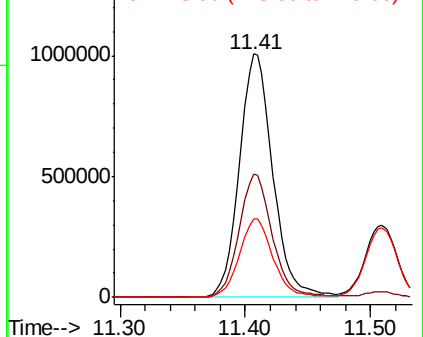
Tgt Ion:117 Resp: 1869933
Ion Ratio Lower Upper
117 100
82 50.5 40.0 60.0
119 32.4 25.8 38.6

Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:14:17 AM



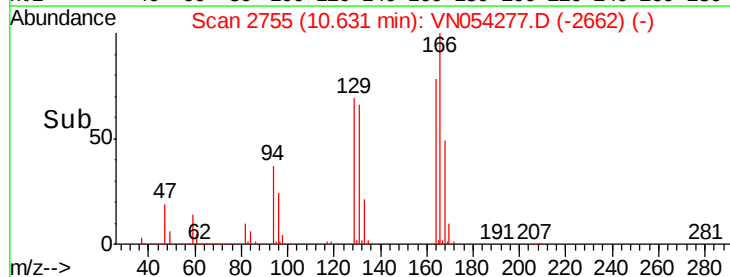
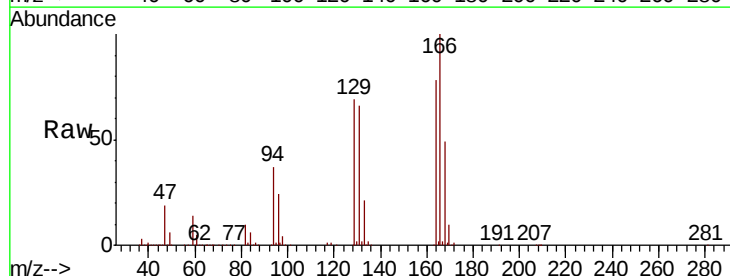
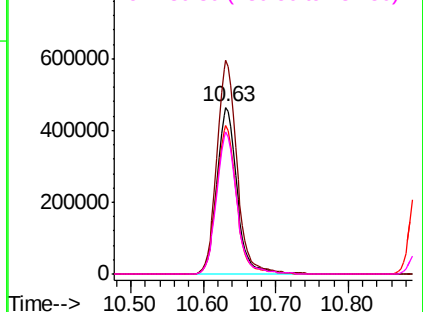
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 49.491 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN054277.D
Acq: 14 Mar 2019 22:10

Tgt Ion:164 Resp: 894762
Ion Ratio Lower Upper
164 100
166 128.2 103.9 155.9
129 88.9 71.1 106.7
131 85.0 68.2 102.4

Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 51.715 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN054277.D

Acq: 14 Mar 2019 22:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion:112 Resp: 2123368

Ion Ratio Lower Upper

112 100

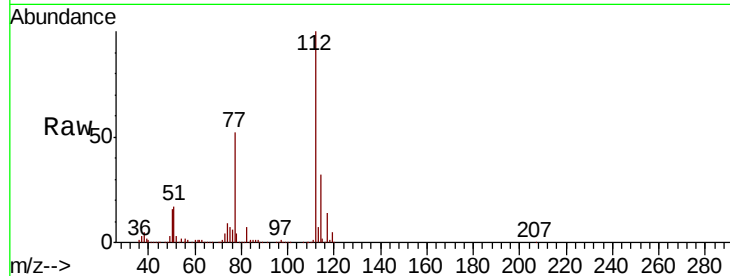
114 31.7 25.9 38.9

Manual Integrations

APPROVED

MMDadoda

3/15/2019 10:14:17 AM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

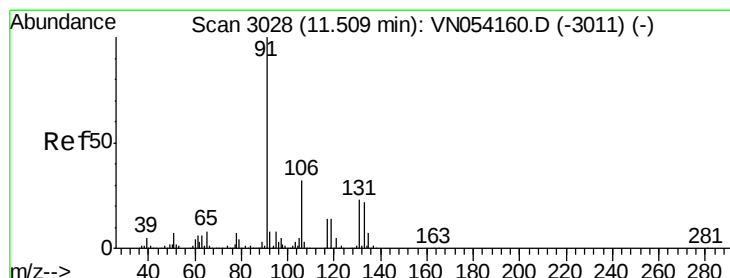
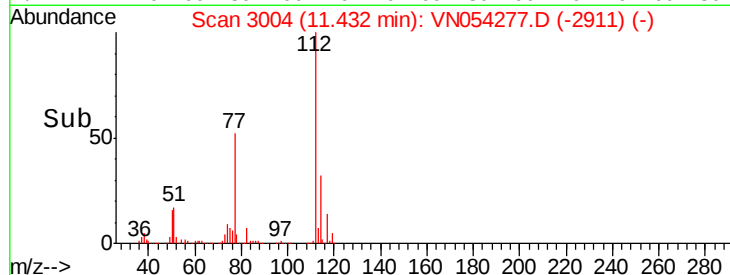
11.43

1000000

500000

0

Time--> 11.30 11.40 11.50 11.60



#66

1,1,1,2-Tetrachloroethane

Concen: 52.513 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN054277.D

Acq: 14 Mar 2019 22:10

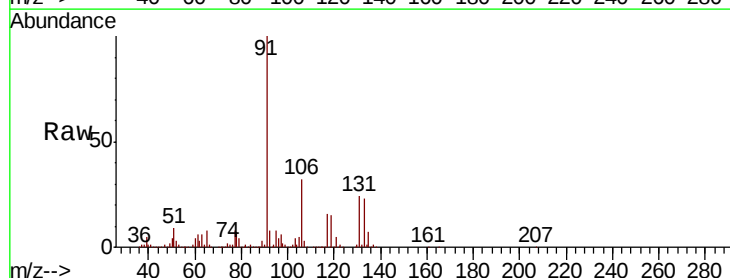
Tgt Ion:131 Resp: 783261

Ion Ratio Lower Upper

131 100

133 95.2 47.6 142.9

119 65.4 32.4 97.0



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

11.51

600000

500000

400000

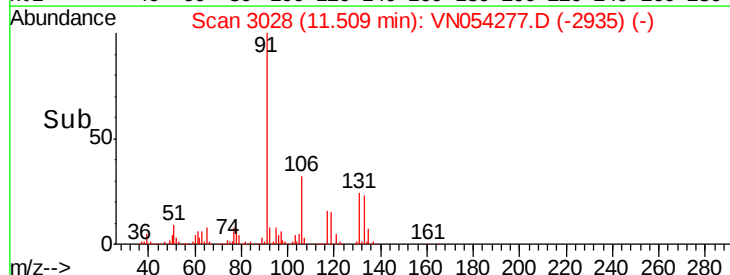
300000

200000

100000

0

Time--> 11.40 11.50 11.60





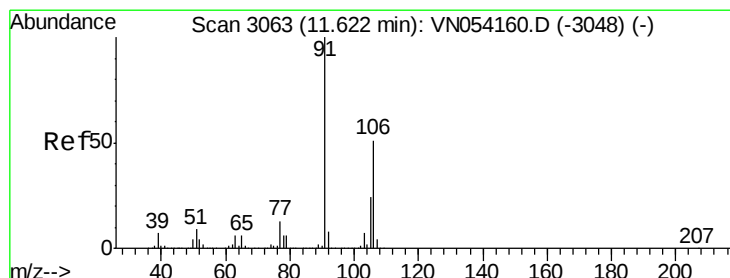
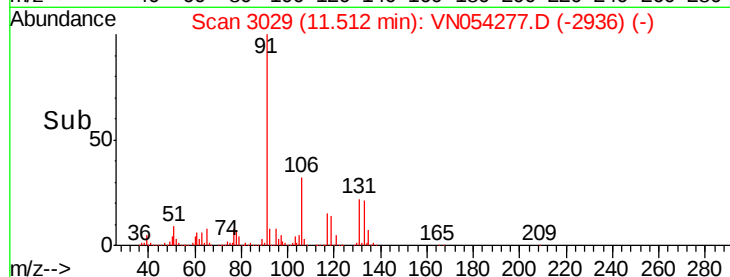
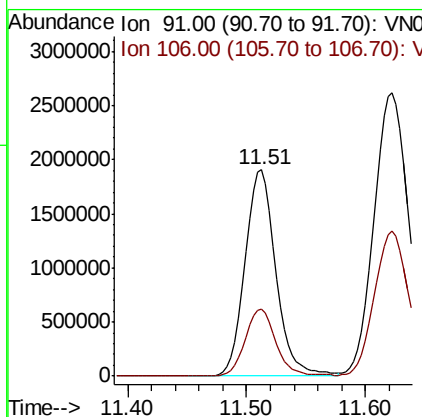
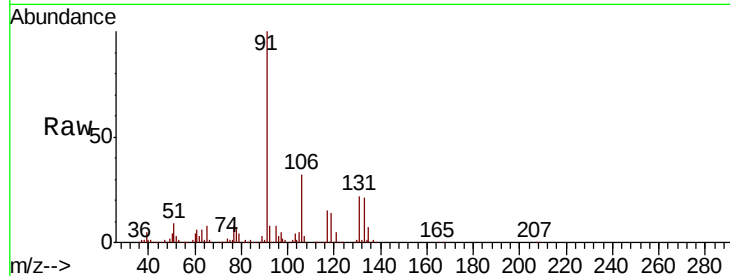
#67
Ethyl Benzene
Concen: 50.426 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. -0.00 min
Lab File: VN054277.D
Acq: 14 Mar 2019 22:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 3432082
Ion Ratio Lower Upper
91 100
106 32.5 25.5 38.3

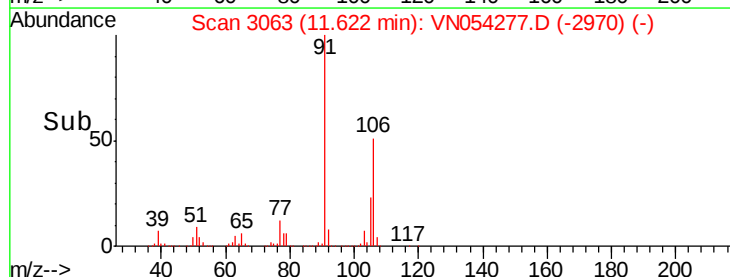
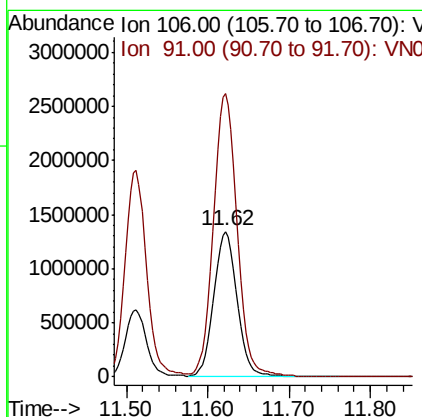
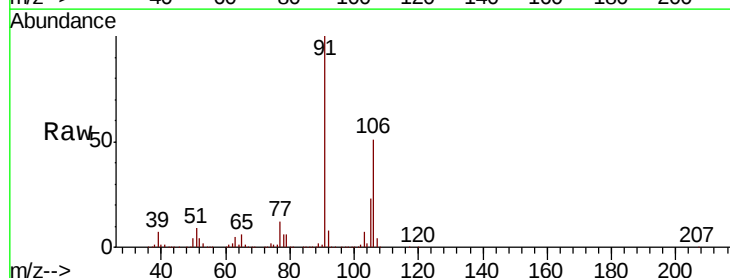
Manual Integrations
APPROVED

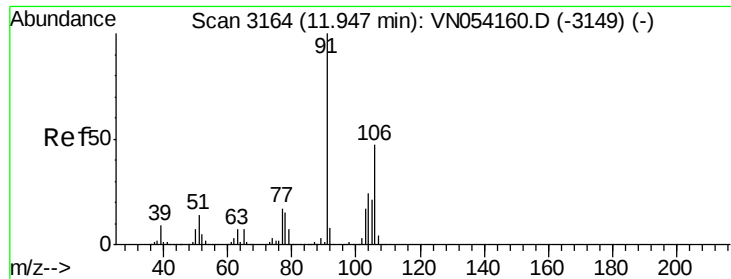
MMDadoda
3/15/2019 10:14:17 AM



#68
m/p-Xylenes
Concen: 102.815 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. -0.00 min
Lab File: VN054277.D
Acq: 14 Mar 2019 22:10

Tgt Ion: 106 Resp: 2735064
Ion Ratio Lower Upper
106 100
91 197.7 159.4 239.2





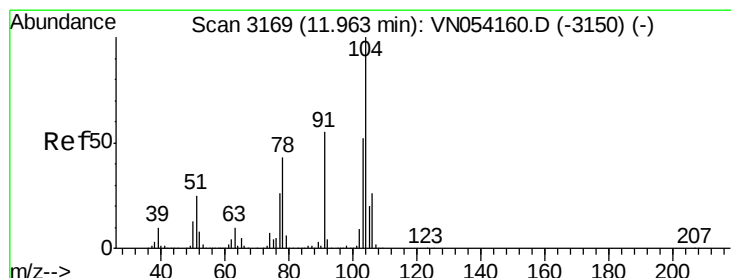
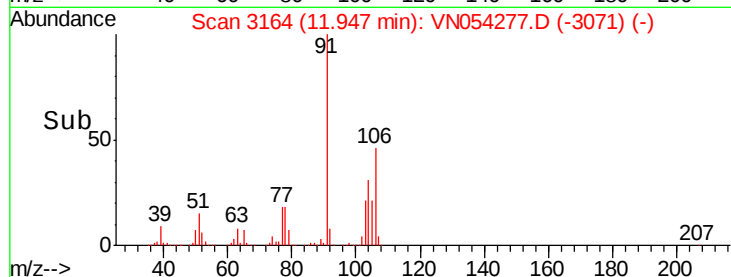
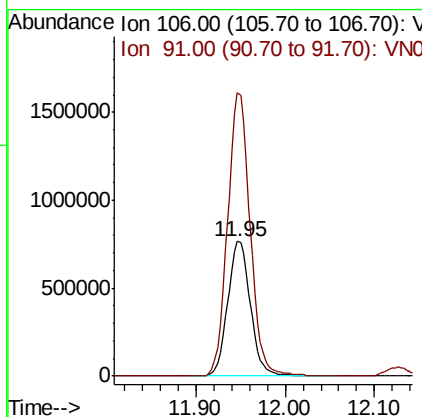
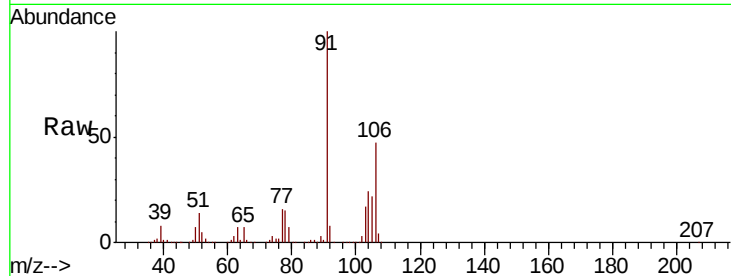
#69
o-Xylene
Concen: 51.939 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN054277.D
Acq: 14 Mar 2019 22:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 1346892
Ion Ratio Lower Upper
106 100
91 208.9 105.7 317.1

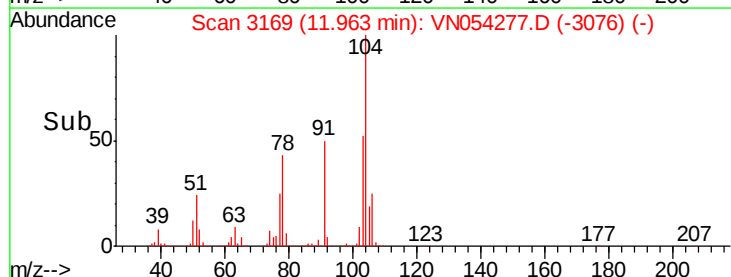
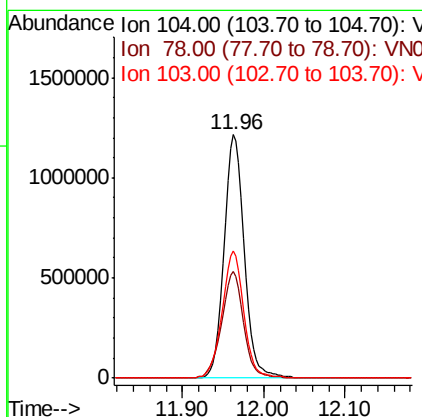
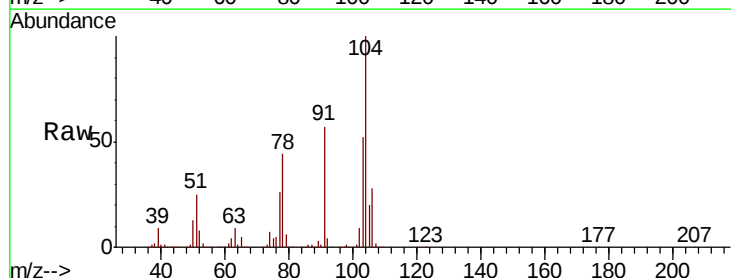
Manual Integrations
APPROVED

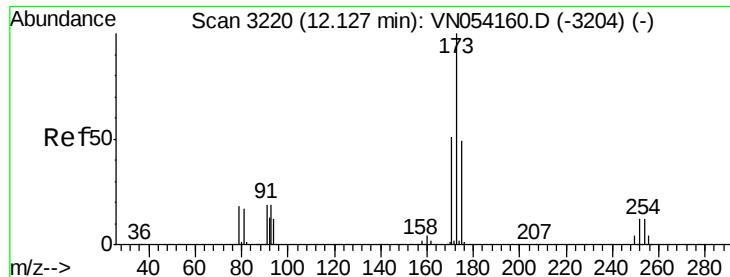
MMDadoda
3/15/2019 10:14:17 AM



#70
Styrene
Concen: 52.563 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN054277.D
Acq: 14 Mar 2019 22:10

Tgt Ion:104 Resp: 2137748
Ion Ratio Lower Upper
104 100
78 47.2 38.2 57.2
103 55.9 44.4 66.6





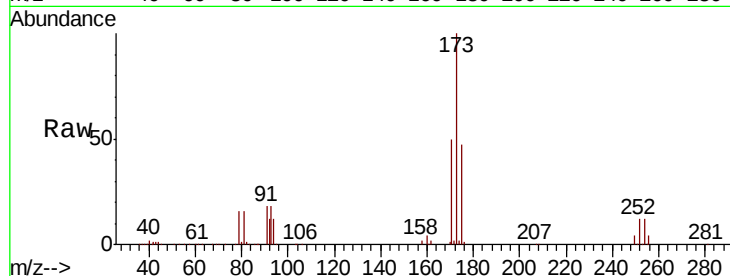
#71
Bromoform
Concen: 44.253 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. -0.00 min
Lab File: VN054277.D
Acq: 14 Mar 2019 22:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

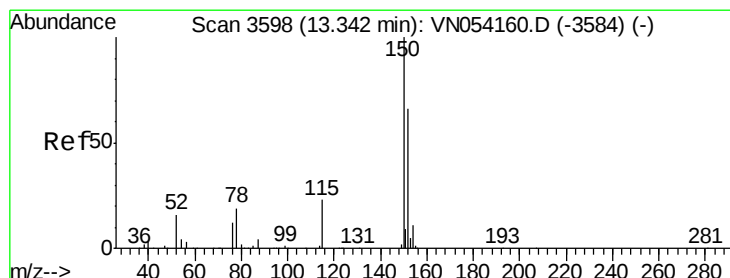
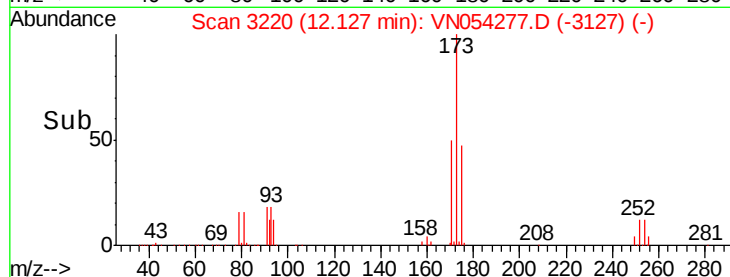
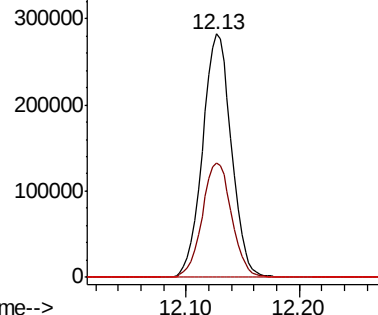
Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.1	24.4	73.2
254	0.1	0.1	0.1#

Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:14:17 AM

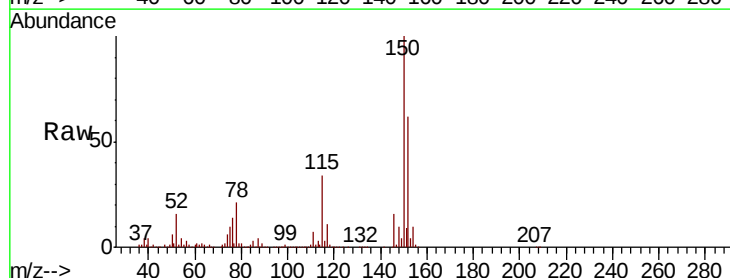


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

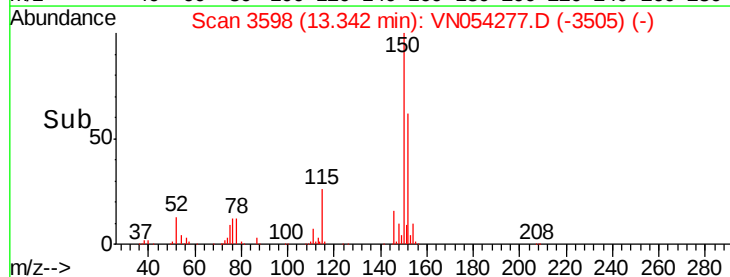
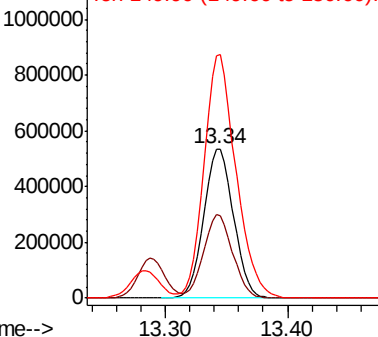


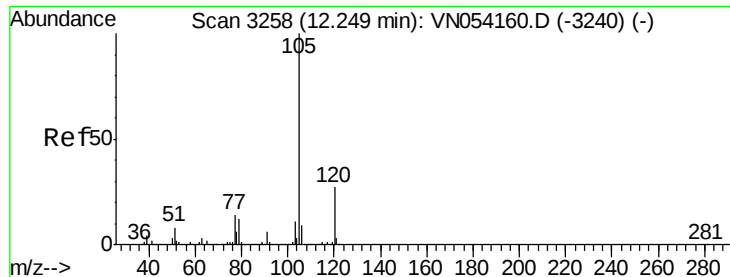
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN054277.D
Acq: 14 Mar 2019 22:10

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.6	27.2	81.6
150	175.5	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: 49.009 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN054277.D

Acq: 14 Mar 2019 22:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 105 Resp: 3542548

Ion Ratio Lower Upper

105 100

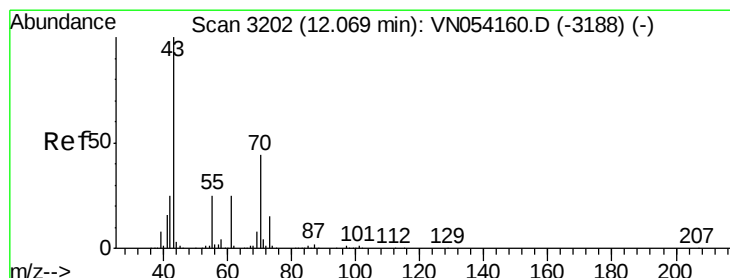
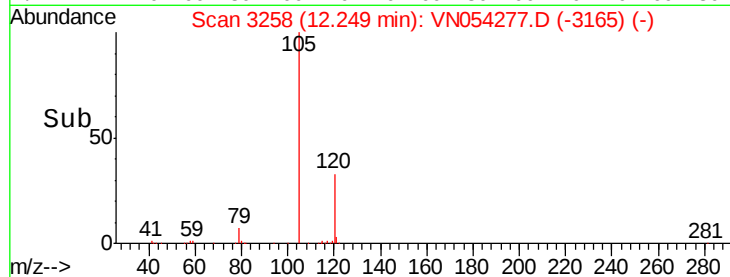
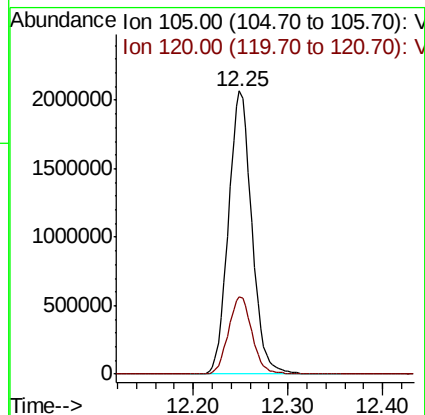
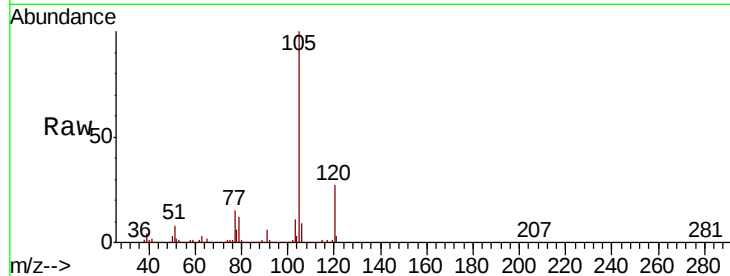
120 27.7 13.8 41.3

Manual Integrations

APPROVED

MMDadoda

3/15/2019 10:14:17 AM



#74

N-ethyl acetate

Concen: 47.570 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN054277.D

Acq: 14 Mar 2019 22:10

Tgt Ion: 43 Resp: 763238

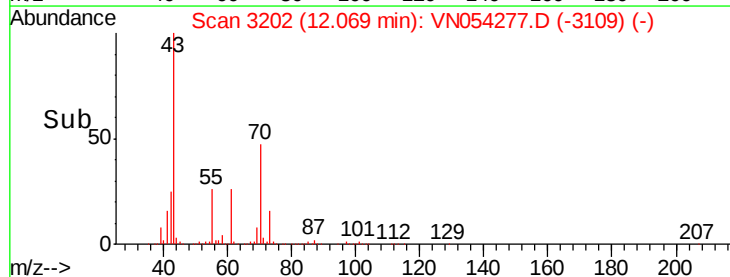
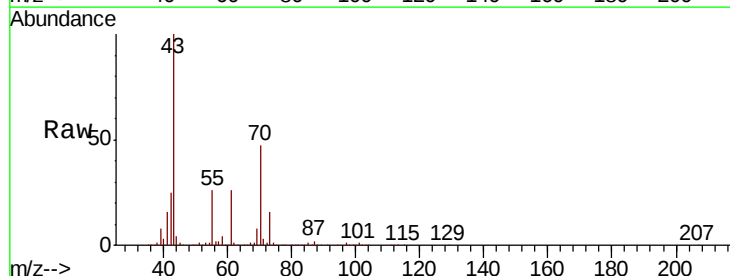
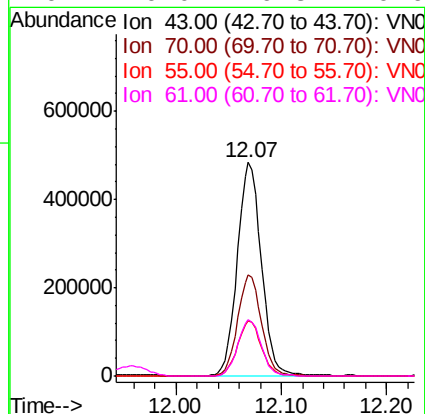
Ion Ratio Lower Upper

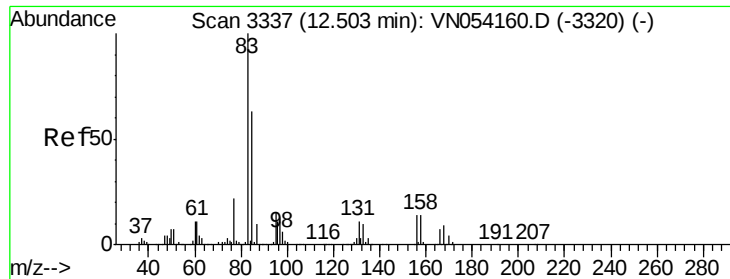
43 100

70 46.9 35.4 53.0

55 26.0 19.8 29.6

61 26.0 19.8 29.6





#75

1,1,2,2-Tetrachloroethane

Concen: 49.442 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN054277.D

Acq: 14 Mar 2019 22:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 83 Resp: 761423
Ion Ratio Lower Upper

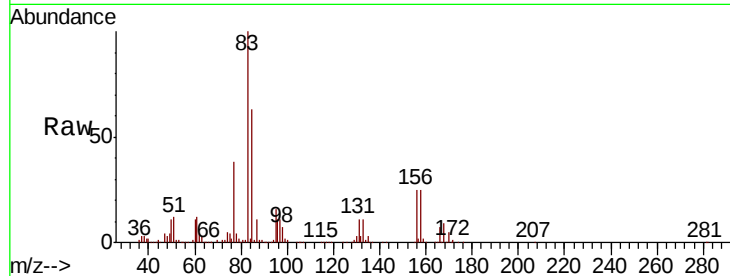
83 100

131 11.6 5.8 17.4

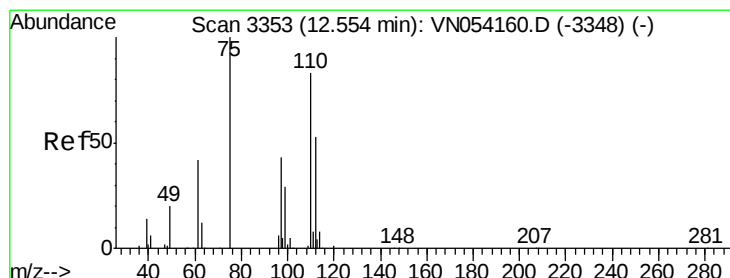
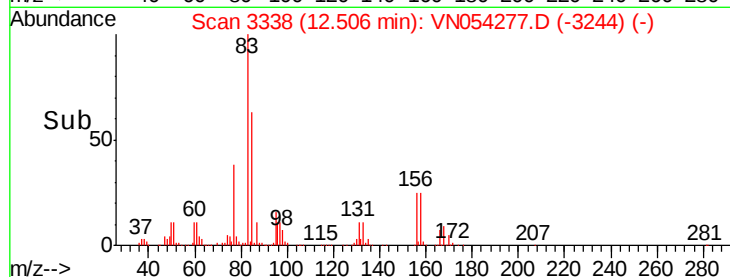
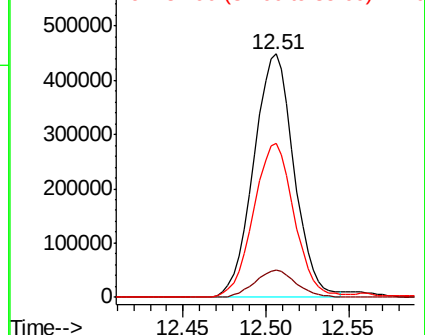
85 64.0 32.2 96.6

Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:14:17 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: 50.937 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

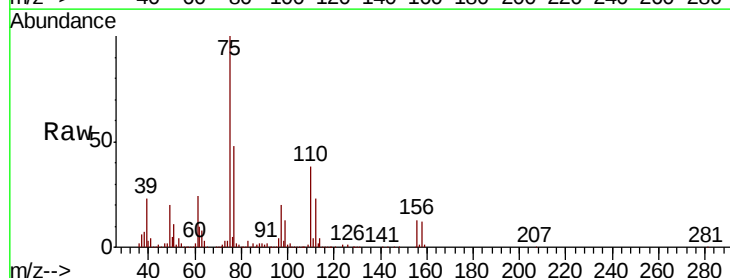
Lab File: VN054277.D

Acq: 14 Mar 2019 22:10

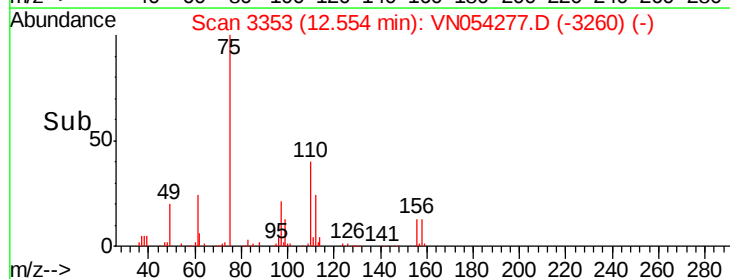
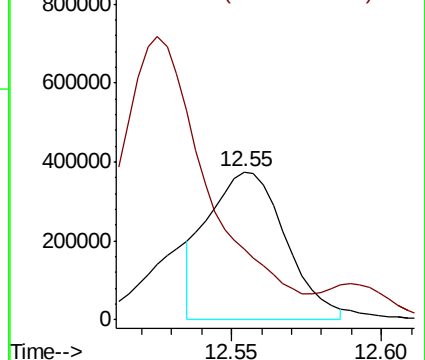
Tgt Ion: 75 Resp: 676751
Ion Ratio Lower Upper

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





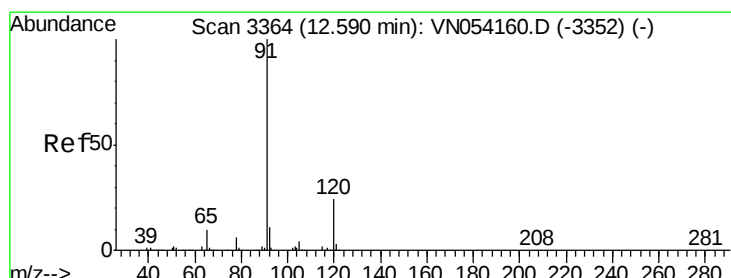
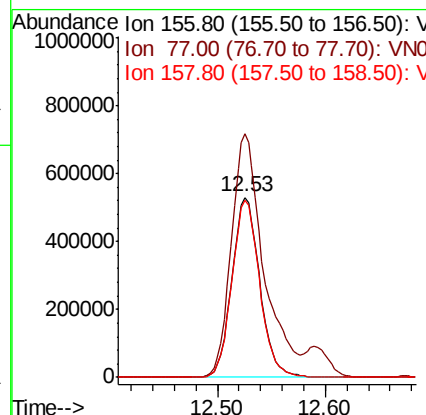
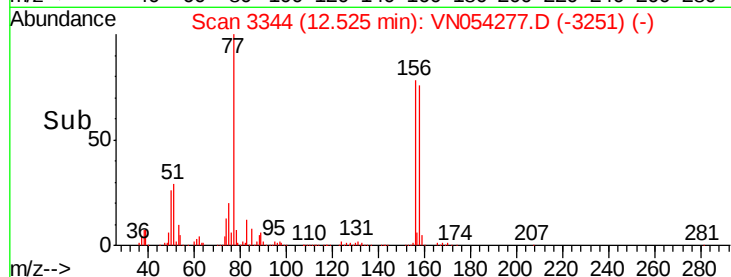
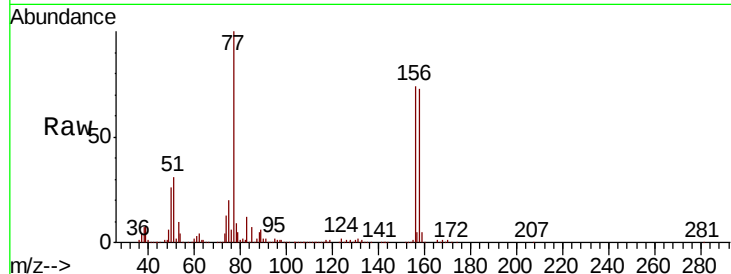
#77
Bromobenzene
Concen: 49.828 ug/l
RT: 12.53 min Scan# 3344
Delta R.T. -0.00 min
Lab File: VN054277.D
Acq: 14 Mar 2019 22:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
156	100		
77	157.4	81.5	244.4
158	98.4	49.0	147.2

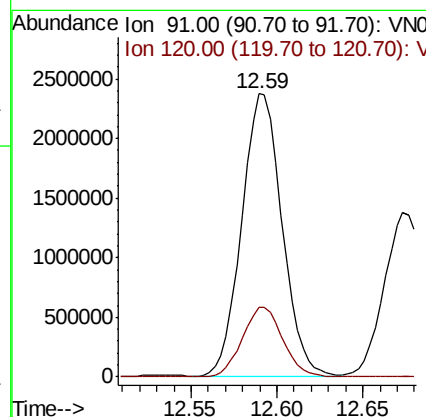
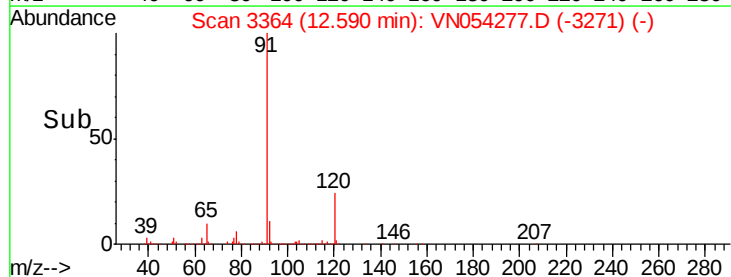
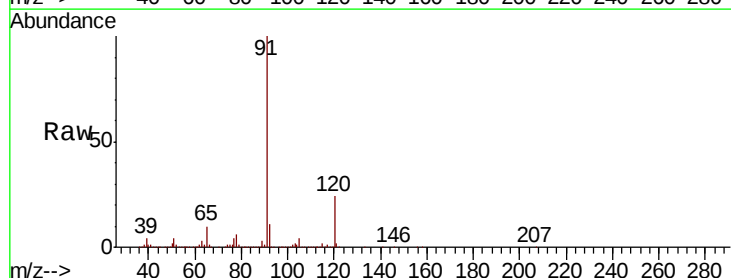
Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:14:17 AM



#78
n-propylbenzene
Concen: 49.157 ug/l
RT: 12.59 min Scan# 3364
Delta R.T. -0.00 min
Lab File: VN054277.D
Acq: 14 Mar 2019 22:10

Tgt Ion	Ratio	Lower	Upper
91	100		
120	24.8	12.3	36.9





#79

2-Chlorotoluene

Concen: 49.158 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN054277.D

Acq: 14 Mar 2019 22:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 91 Resp: 2318235

Ion Ratio Lower Upper

91 100

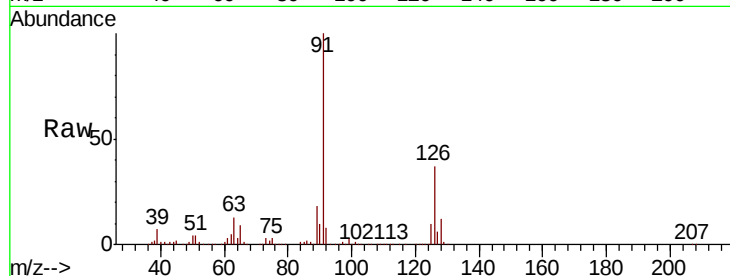
126 38.2 18.7 56.1

Manual Integrations

APPROVED

MMDadoda

3/15/2019 10:14:17 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

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

12.67

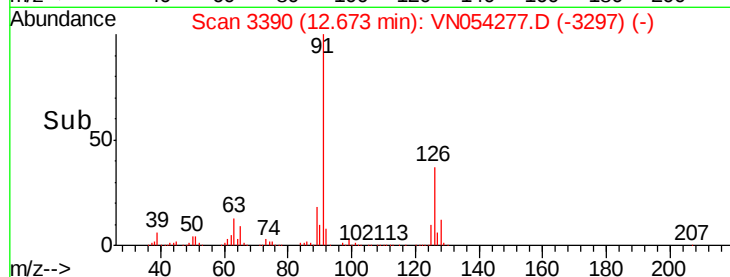
12.67

12.67

12.67

12.67

12.67



#80

1,3,5-Trimethylbenzene

Concen: 49.429 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN054277.D

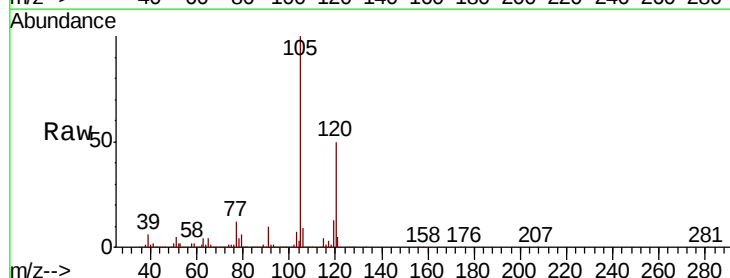
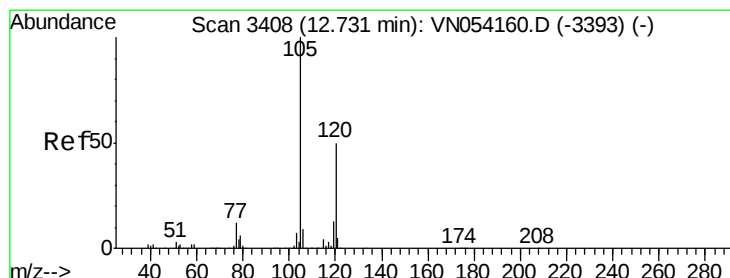
Acq: 14 Mar 2019 22:10

Tgt Ion:105 Resp: 2971866

Ion Ratio Lower Upper

105 100

120 50.0 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

12.73

12.73

12.73

12.73

12.73

12.73

12.73

12.73

12.73

12.73

12.73

12.73

12.73

12.73

12.73

12.73

12.73

12.73

12.73

12.73

12.73

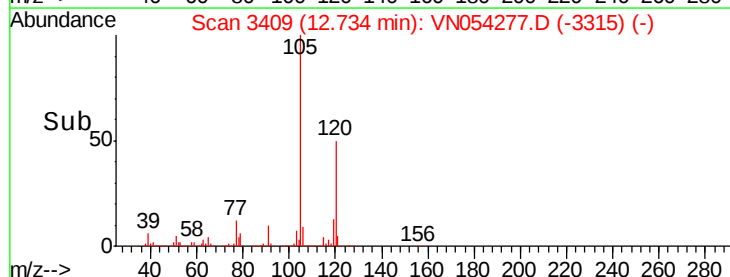
12.73

12.73

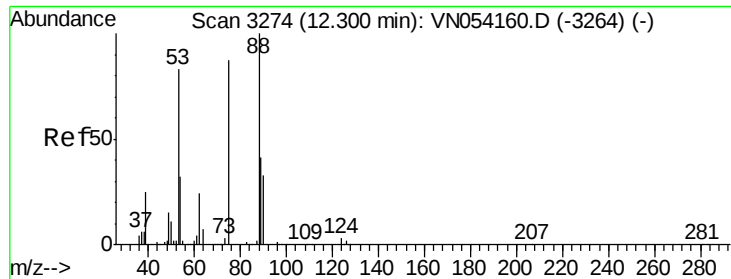
12.73

12.73

12.73



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 37.650 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN054277.D

Acq: 14 Mar 2019 22:10

Instrument :

MSVOA_N

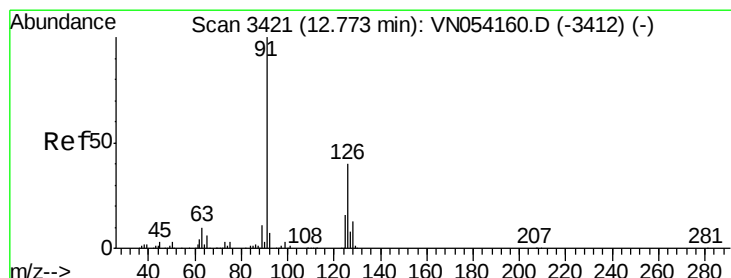
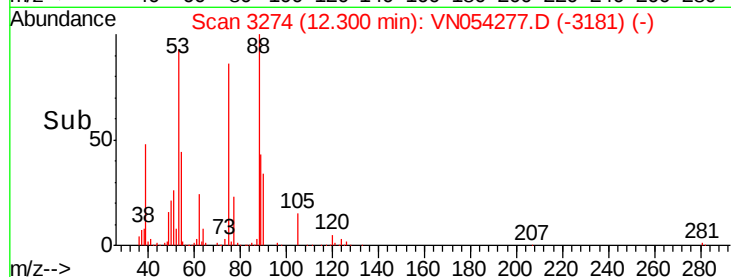
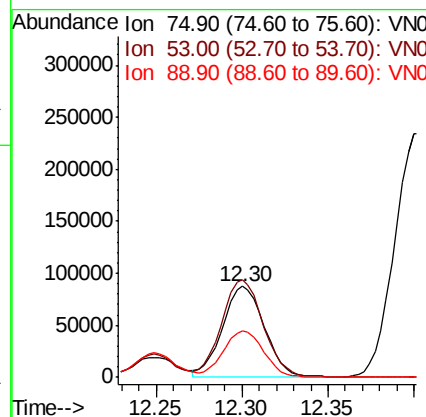
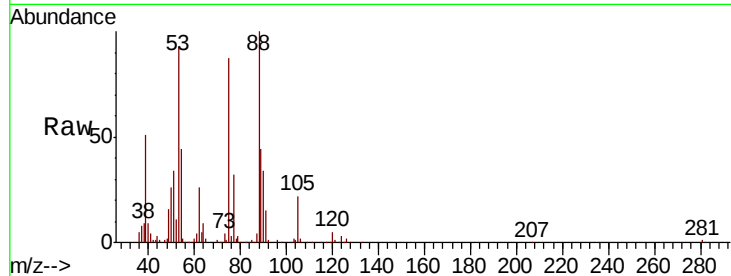
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	75	Resp:	146330
Ion	Ratio	Lower	Upper
75	100		
53	109.2	76.2	114.2
89	50.4	39.2	58.8

Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:14:17 AM



#82

4-Chlorotoluene

Concen: 49.555 ug/l

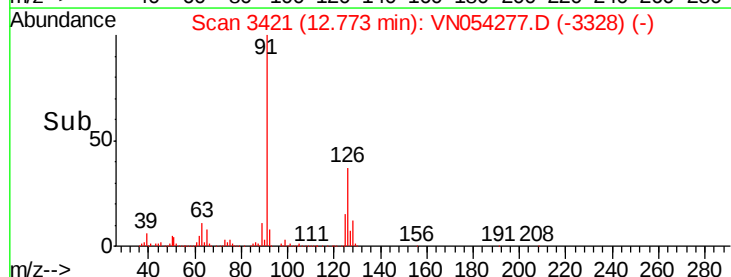
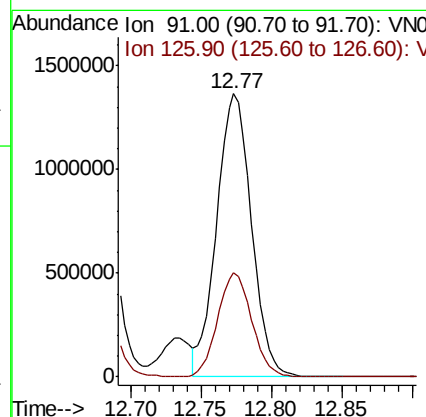
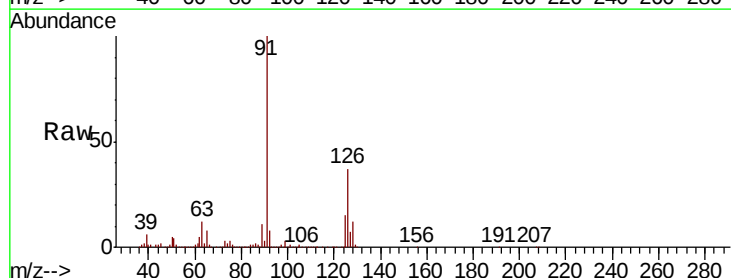
RT: 12.77 min Scan# 3421

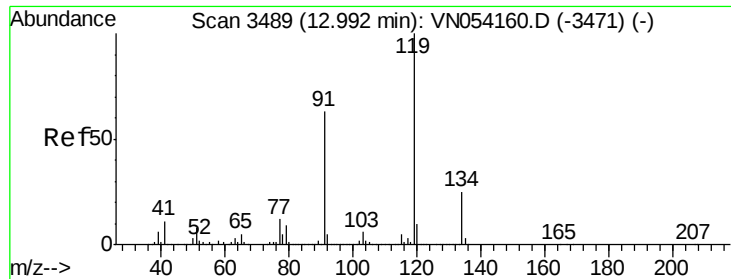
Delta R.T. -0.00 min

Lab File: VN054277.D

Acq: 14 Mar 2019 22:10

Tgt Ion:	91	Resp:	2333505
Ion	Ratio	Lower	Upper
91	100		
126	36.1	18.1	54.1





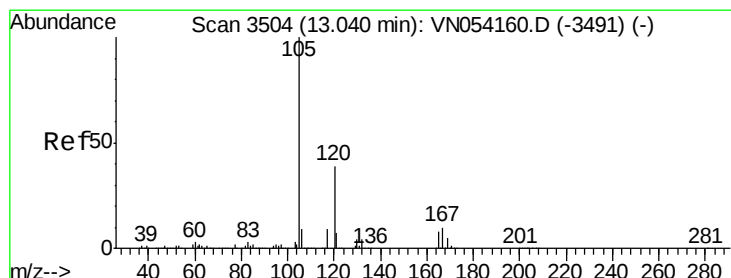
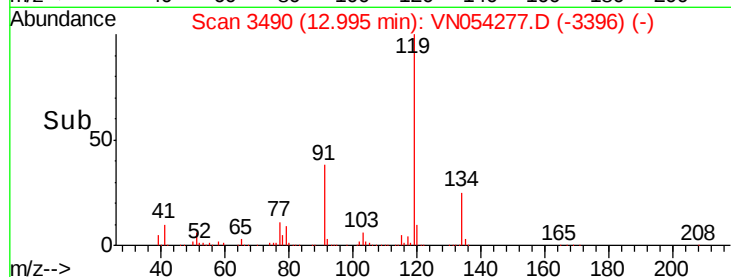
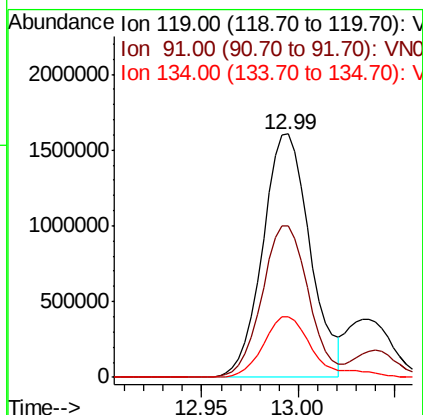
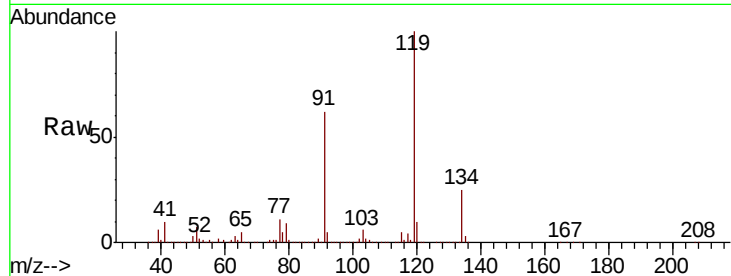
#83
 tert-Butylbenzene
 Concen: 49.336 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN054277.D
 Acq: 14 Mar 2019 22:10

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion:119 Resp: 2730320
 Ion Ratio Lower Upper
 119 100
 91 61.6 30.9 92.8
 134 26.4 13.2 39.6

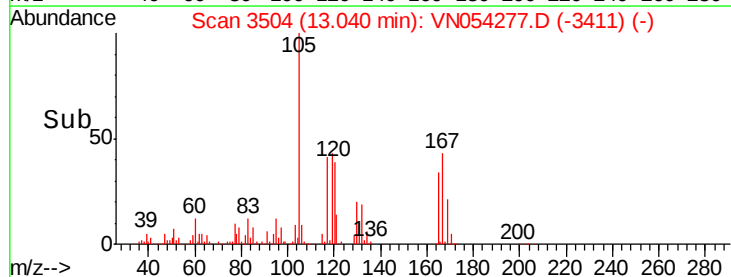
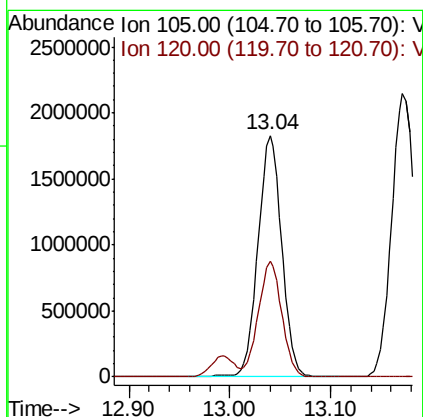
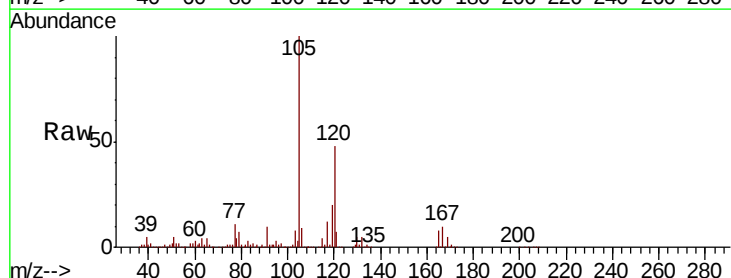
Manual Integrations
 APPROVED

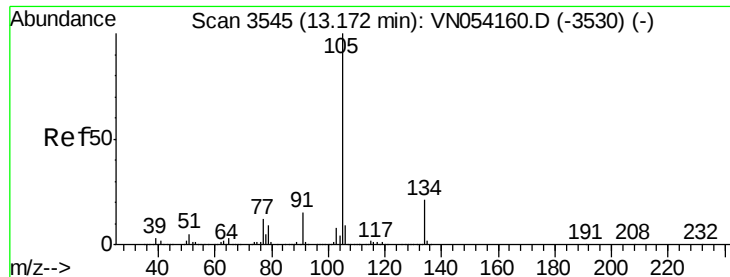
MMDadoda
 3/15/2019 10:14:17 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 50.389 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN054277.D
 Acq: 14 Mar 2019 22:10

Tgt Ion:105 Resp: 2972219
 Ion Ratio Lower Upper
 105 100
 120 47.4 23.4 70.3





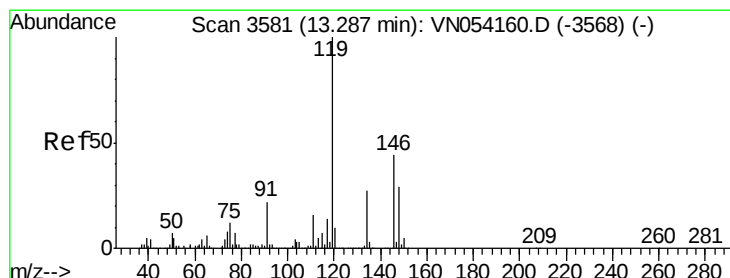
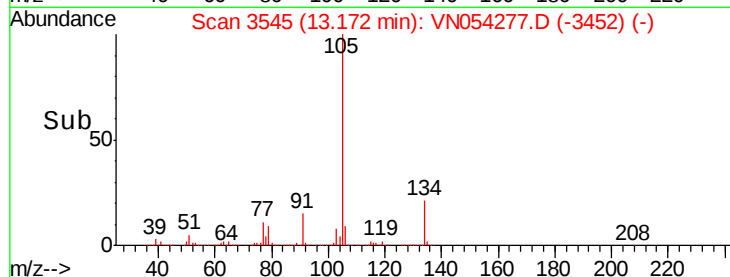
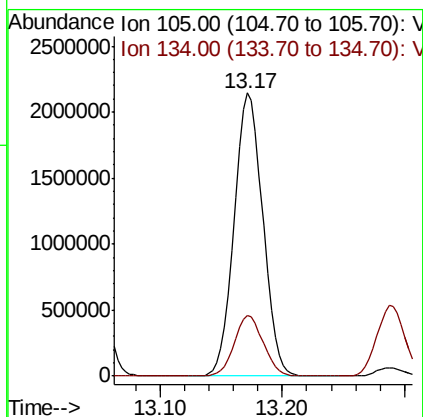
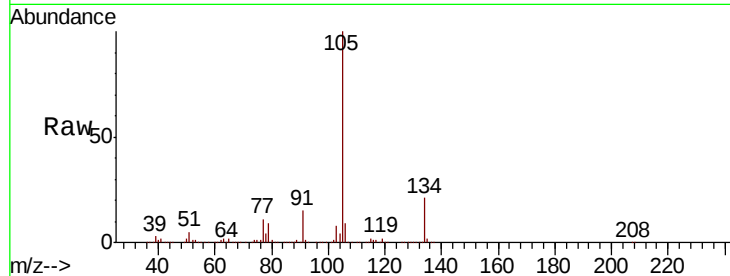
#85
 sec-Butylbenzene
 Concen: 48.527 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. -0.00 min
 Lab File: VN054277.D
 Acq: 14 Mar 2019 22:10

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion:105 Resp: 3482741
 Ion Ratio Lower Upper
 105 100
 134 21.6 10.7 32.1

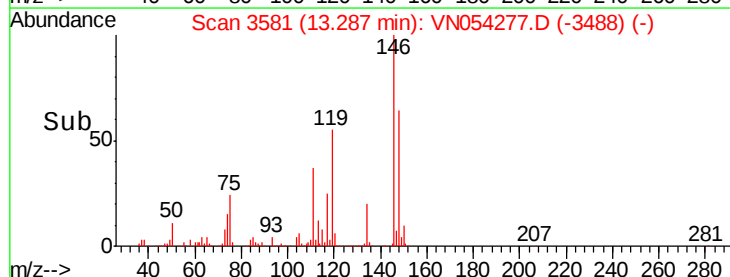
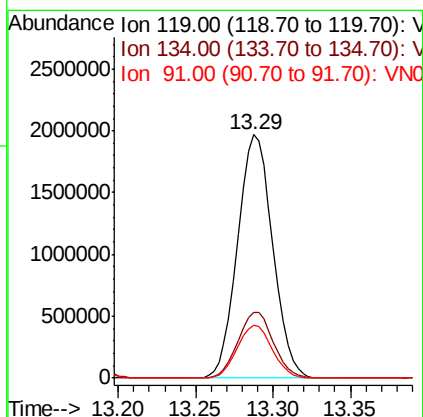
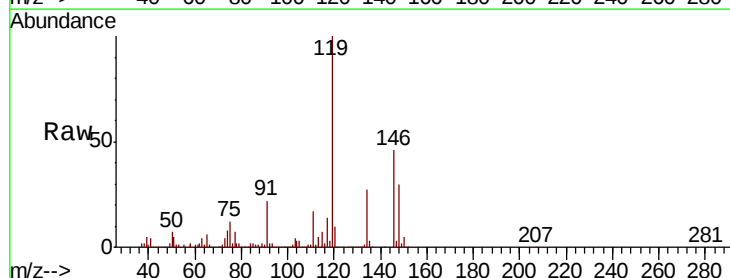
Manual Integrations
 APPROVED

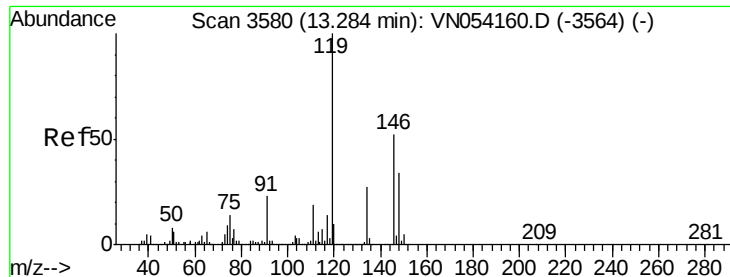
MMDadoda
 3/15/2019 10:14:17 AM



#86
 p-Isopropyltoluene
 Concen: 49.181 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.00 min
 Lab File: VN054277.D
 Acq: 14 Mar 2019 22:10

Tgt Ion:119 Resp: 3096596
 Ion Ratio Lower Upper
 119 100
 134 27.4 13.6 40.8
 91 21.7 11.1 33.3





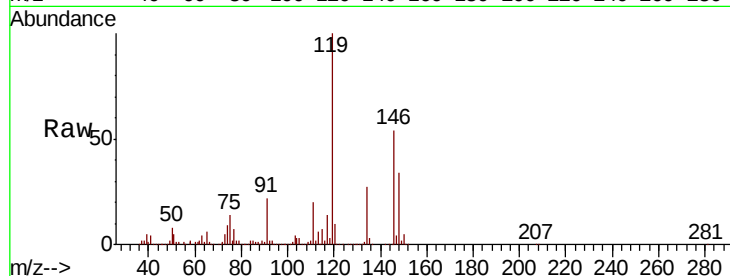
#87
 1,3-Dichlorobenzene
 Concen: 50.973 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.00 min
 Lab File: VN054277.D
 Acq: 14 Mar 2019 22:10

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

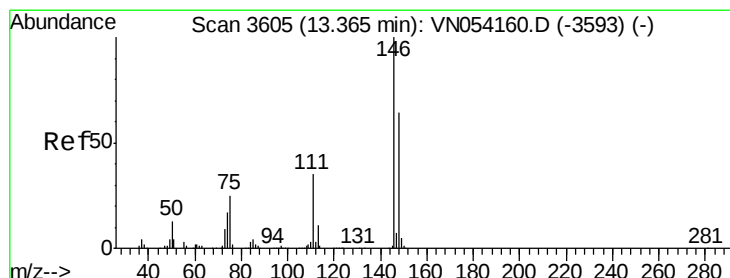
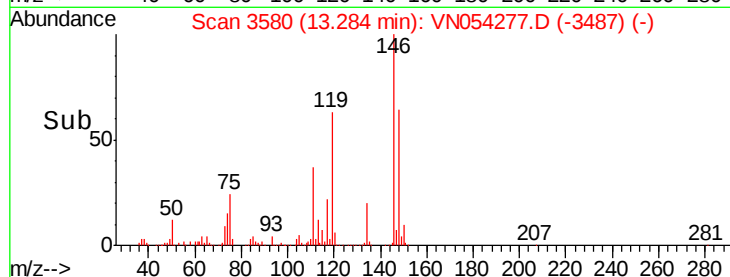
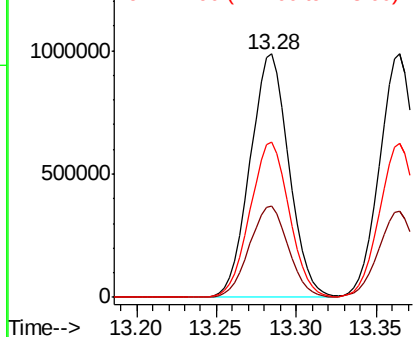
Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.5	18.8	56.3
148	64.4	32.2	96.6

Manual Integrations
 APPROVED

MMDadoda
 3/15/2019 10:14:17 AM

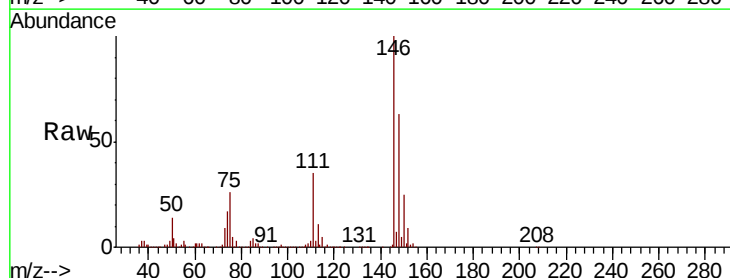


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

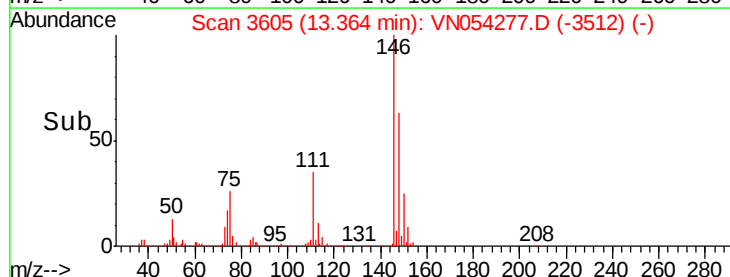
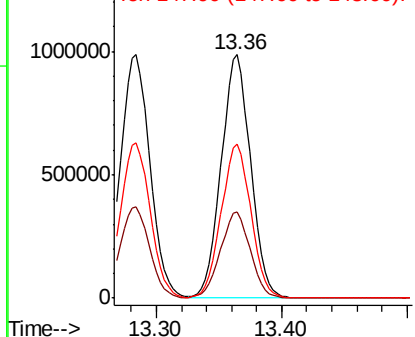


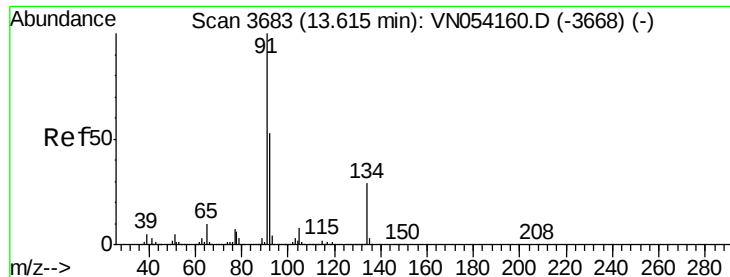
#88
 1,4-Dichlorobenzene
 Concen: 50.575 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. -0.00 min
 Lab File: VN054277.D
 Acq: 14 Mar 2019 22:10

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.8	18.1	54.1
148	64.1	32.0	96.0



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V





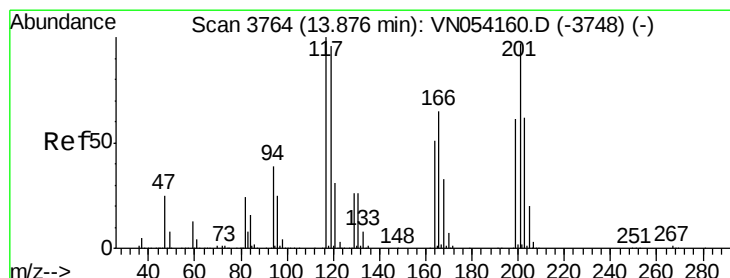
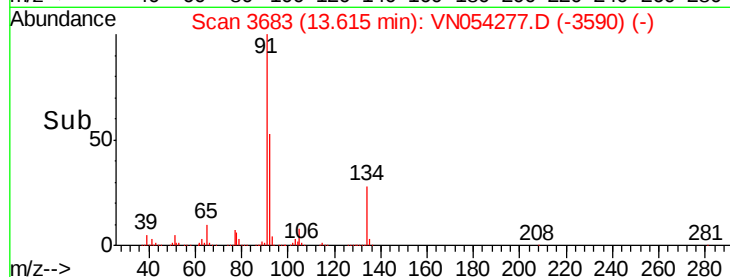
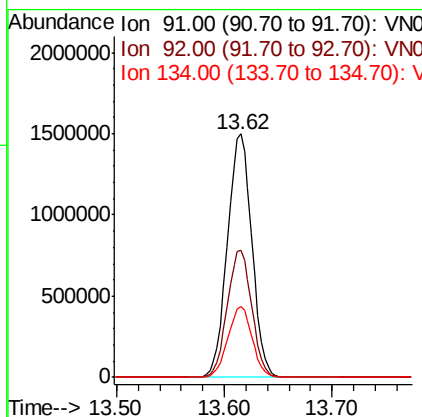
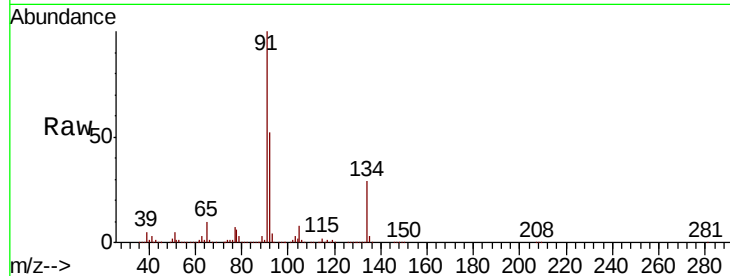
#89
n-Butylbenzene
Concen: 49.368 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VN054277.D
Acq: 14 Mar 2019 22:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 2361781
Ion Ratio Lower Upper
91 100
92 52.4 26.2 78.6
134 28.9 14.3 42.9

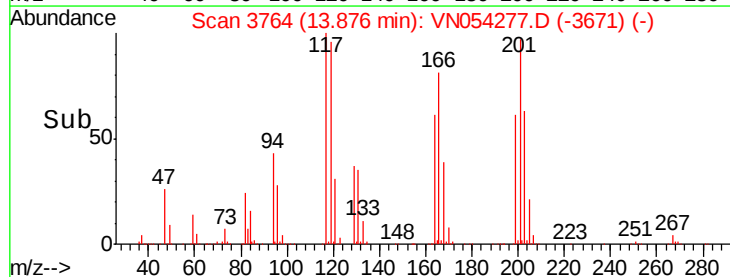
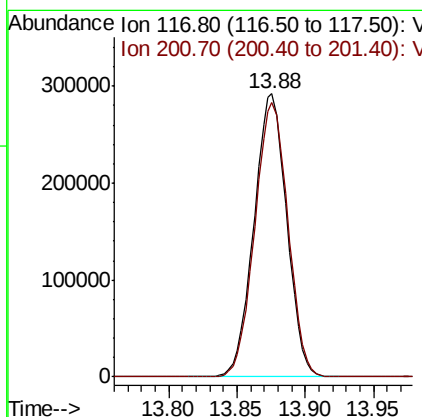
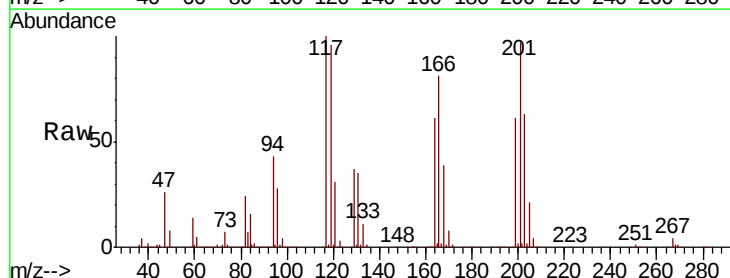
Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:14:17 AM



#90
Hexachloroethane
Concen: 46.769 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. -0.00 min
Lab File: VN054277.D
Acq: 14 Mar 2019 22:10

Tgt Ion: 117 Resp: 487600
Ion Ratio Lower Upper
117 100
201 98.2 48.1 144.4





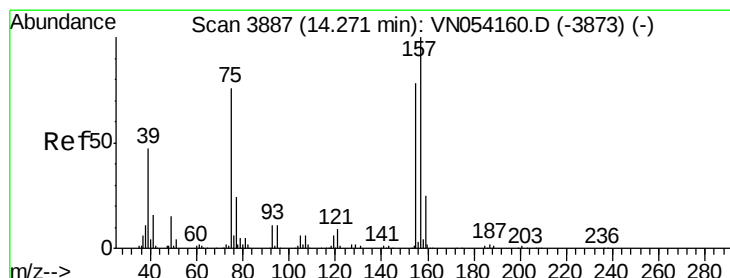
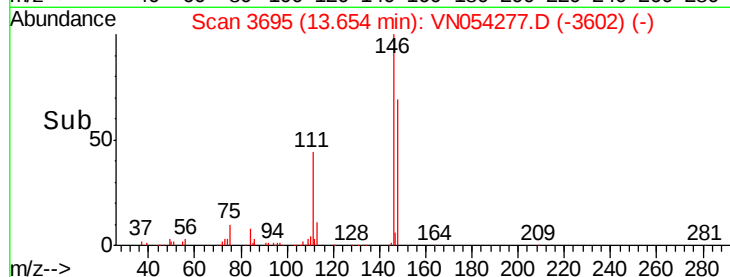
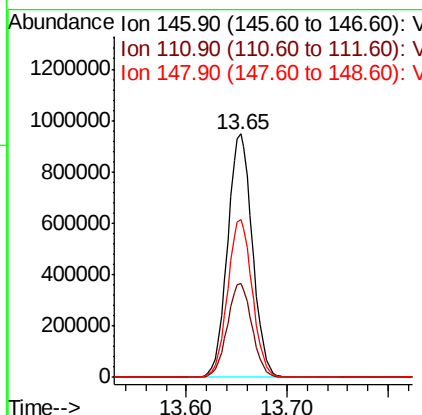
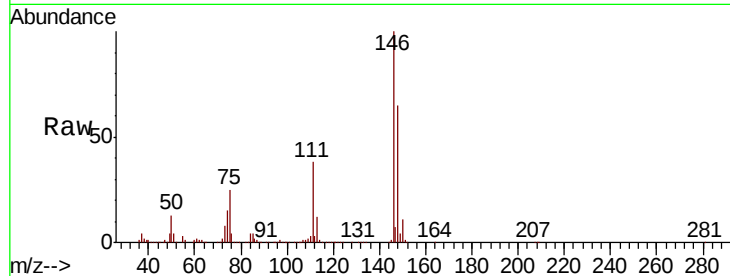
#91
 1,2-Dichlorobenzene
 Concen: 51.481 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. -0.00 min
 Lab File: VN054277.D
 Acq: 14 Mar 2019 22:10

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion: 146 Resp: 1622044
 Ion Ratio Lower Upper
 146 100
 111 38.4 19.1 57.3
 148 64.5 32.4 97.0

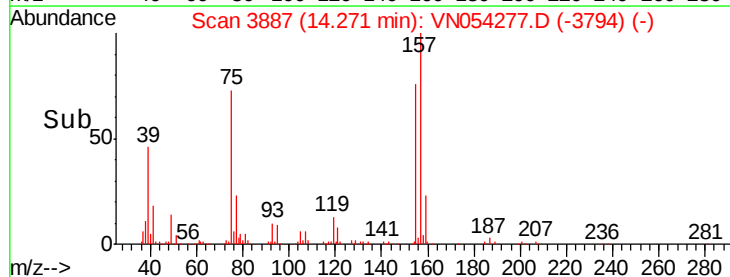
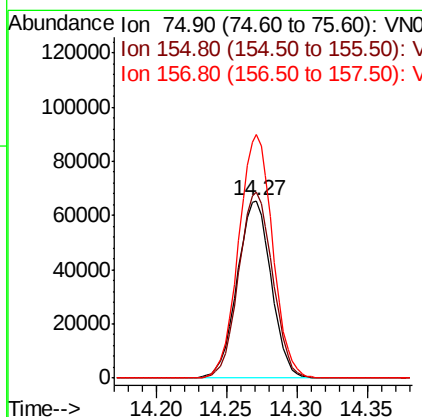
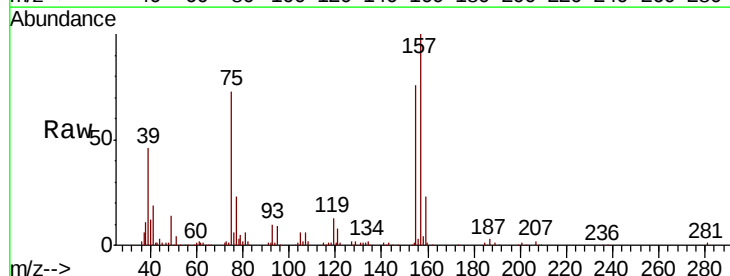
Manual Integrations
 APPROVED

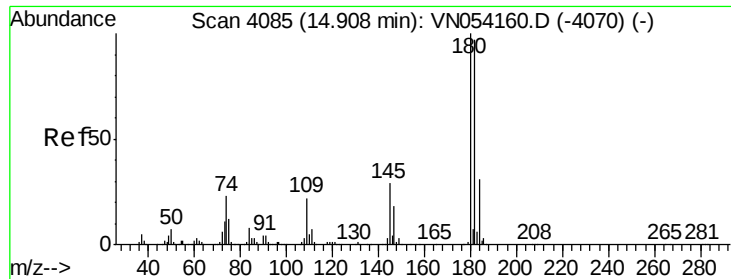
MMDadoda
 3/15/2019 10:14:17 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 46.479 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. -0.00 min
 Lab File: VN054277.D
 Acq: 14 Mar 2019 22:10

Tgt Ion: 75 Resp: 110765
 Ion Ratio Lower Upper
 75 100
 155 104.4 50.1 150.3
 157 136.8 63.1 189.3





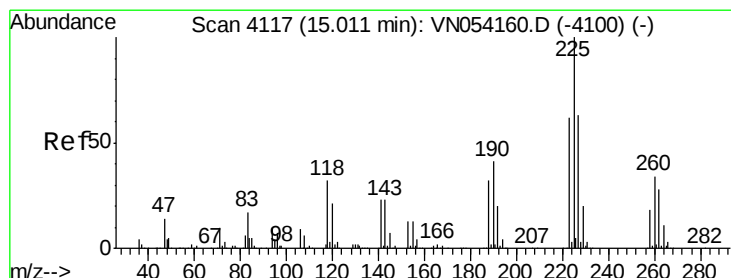
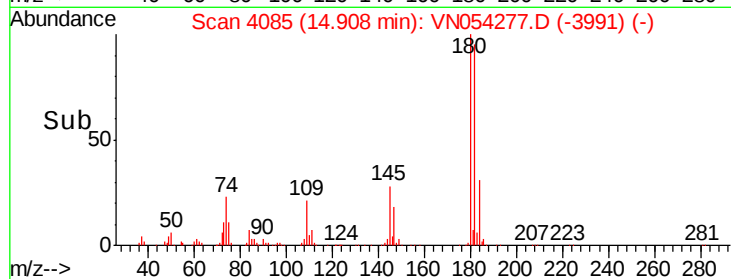
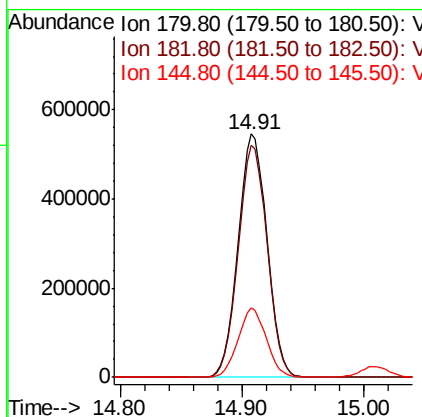
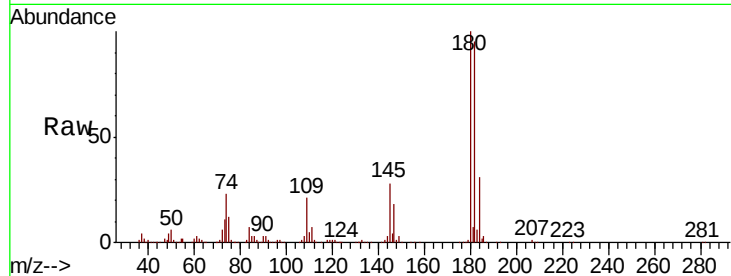
#93
 1,2,4-Trichlorobenzene
 Concen: 46.867 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN054277.D
 Acq: 14 Mar 2019 22:10

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	888349		
182	95.6	48.0	144.2	
145	27.8	14.2	42.8	

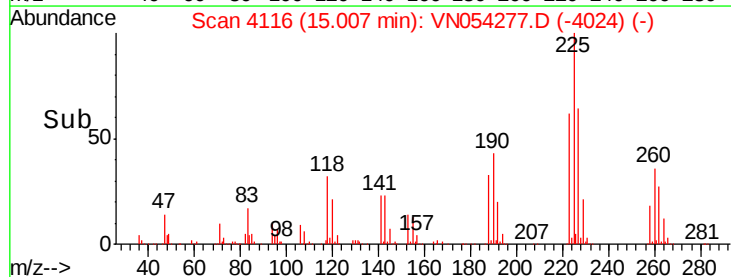
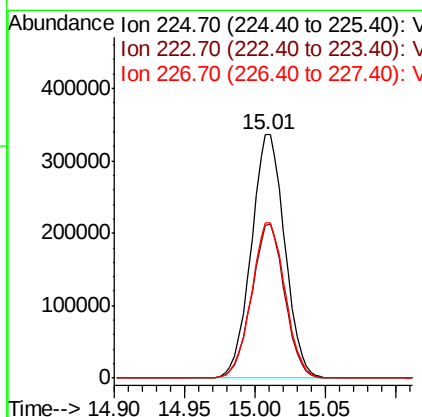
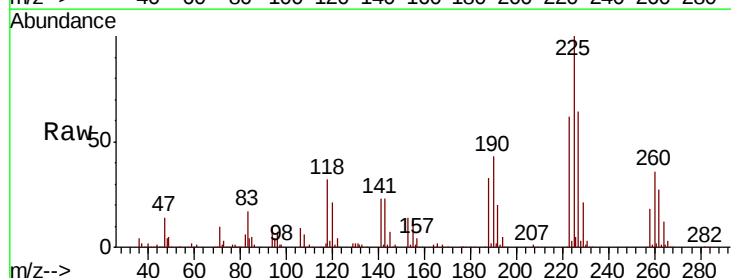
Manual Integrations
 APPROVED

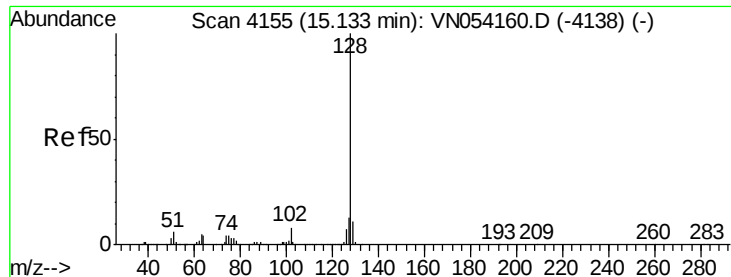
MMDadoda
 3/15/2019 10:14:17 AM



#94
 Hexachlorobutadiene
 Concen: 46.614 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN054277.D
 Acq: 14 Mar 2019 22:10

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	559430		
223	62.0	31.1	93.5	
227	64.1	31.9	95.9	





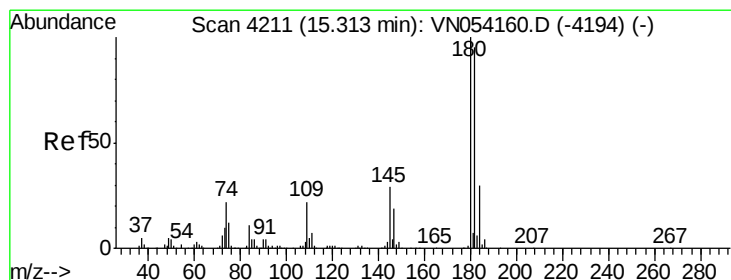
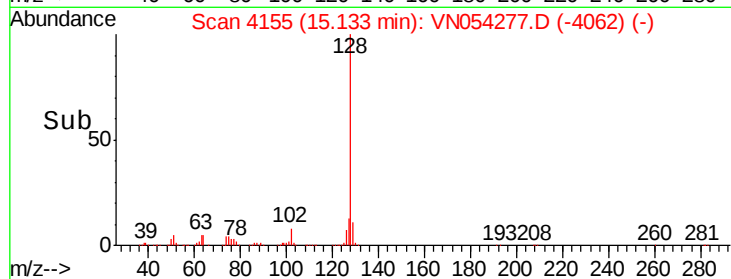
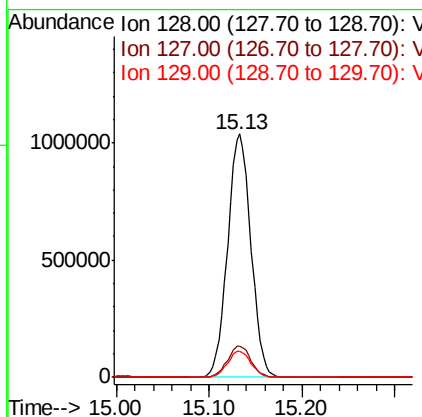
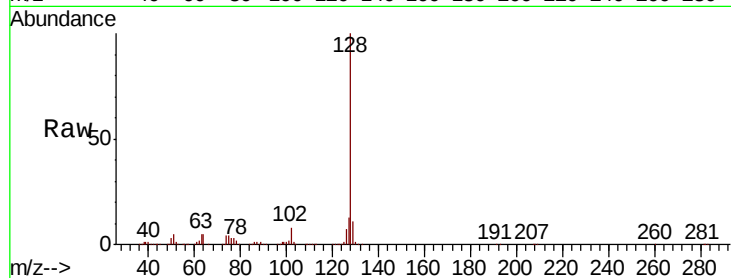
#95
Naphthalene
Concen: 45.859 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN054277.D
Acq: 14 Mar 2019 22:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.1	15.1
129	10.8	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:14:17 AM



#96
1,2,3-Trichlorobenzene
Concen: 53.145 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN054277.D
Acq: 14 Mar 2019 22:10

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.2	47.5	142.6
145	29.0	14.8	44.3

