

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090418\
 Data File : VN051014.D
 Acq On : 4 Sep 2018 13:02
 Operator : MD\SY
 Sample : VN0904WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0904WBSD01

Manual Integrations
 APPROVED

MMDadoda
 9/5/2018 12:00:33 PM

Quant Time: Sep 05 01:41:06 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 05:38:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	603475	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	865599	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	772676	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	360324	50.00	ug/l	0.00

MMDadoda

9/5/2018 12:00:33 PM

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	358199	49.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.60%	
35) Dibromofluoromethane	7.59	113	343197	49.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.68%	
50) Toluene-d8	10.09	98	1259138	48.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.82%	
62) 4-Bromofluorobenzene	12.40	95	394582	46.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.24%	

MMDadoda

9/5/2018 12:00:33 PM

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.85	85	141120	17.47	ug/l	100
3) Chloromethane	2.06	50	164990	16.56	ug/l	99
4) Vinyl Chloride	2.18	62	166325	17.63	ug/l	99
5) Bromomethane	2.56	94	91431	16.33	ug/l	98
6) Chloroethane	2.70	64	97418	17.87	ug/l	100
7) Trichlorofluoromethane	3.01	101	224830	18.61	ug/l	98
8) Diethyl Ether	3.41	74	77381	18.83	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	137094	18.16	ug/l	98
10) Methyl Iodide	3.95	142	93606	18.68	ug/l	98
11) Tert butyl alcohol	4.79	59	45840	99.09	ug/l	100
12) 1,1-Dichloroethene	3.74	96	124729	18.40	ug/l	98
13) Acrolein	3.61	56	28044	114.29	ug/l	99
14) Allyl chloride	4.32	41	190515	18.04	ug/l	98
15) Acrylonitrile	5.00	53	227981	96.97	ug/l	99
16) Acetone	3.82	43	155841	85.95	ug/l	97
17) Carbon Disulfide	4.05	76	353288	15.55	ug/l	100
18) Methyl Acetate	4.33	43	158464	23.10	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	333355	19.55	ug/l	99
20) Methylene Chloride	4.55	84	147727	18.04	ug/l	97
21) trans-1,2-Dichloroethene	5.04	96	130158	17.75	ug/l	98
22) Diisopropyl ether	5.96	45	420452	19.98	ug/l	99
23) Vinyl Acetate	5.90	43	1223808	90.29	ug/l	99
24) 1,1-Dichloroethane	5.85	63	252398	18.68	ug/l	99
25) 2-Butanone	6.84	43	246781	84.29	ug/l	99
26) 2,2-Dichloropropane	6.83	77	181374	16.70	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	150906	19.09	ug/l	97
28) Bromochloromethane	7.20	49	110294	19.21	ug/l	96
29) Tetrahydrofuran	7.22	42	169227	100.81	ug/l	99
30) Chloroform	7.37	83	254945	19.05	ug/l	99
31) Cyclohexane	7.66	56	210703	17.46	ug/l	96
32) 1,1,1-Trichloroethane	7.57	97	215140	18.72	ug/l	99
36) 1,1-Dichloropropene	7.80	75	186084	18.22	ug/l	100
37) Ethyl Acetate	6.93	43	113399	19.33	ug/l	99
38) Carbon Tetrachloride	7.78	117	192966	18.69	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090418\
 Data File : VN051014.D
 Acq On : 4 Sep 2018 13:02
 Operator : MD\SY
 Sample : VN0904WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0904WBSD01

Manual Integrations
 APPROVED

MMDadoda
 9/5/2018 12:00:33 PM

9/5/2018 12:00:33 PM

Quant Time: Sep 05 01:41:06 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 05:38:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	9.08	83	186891	16.91	ug/l	98
40) Benzene	8.04	78	581389	18.88	ug/l	100
41) Methacrylonitrile	7.18	41	47967	15.11	ug/l #	82
42) 1,2-Dichloroethane	8.13	62	177146	19.24	ug/l	100
43) Isopropyl Acetate	8.17	43	197076	19.53	ug/l	100
44) Trichloroethene	8.84	130	153725	18.92	ug/l	94
45) 1,2-Dichloropropane	9.12	63	152516	18.84	ug/l	100
46) Dibromomethane	9.21	93	90867	19.10	ug/l	98
47) Bromodichloromethane	9.41	83	191178	19.19	ug/l	99
48) Methyl methacrylate	9.20	41	93289	18.14	ug/l	95
49) 1,4-Dioxane	9.20	88	27544	392.98	ug/l	97
51) 4-Methyl-2-Pentanone	9.99	43	571936	95.00	ug/l	100
52) Toluene	10.16	92	353808	19.39	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	178950	18.05	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	211517	18.63	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	132799	19.61	ug/l	99
56) Ethyl methacrylate	10.43	69	147529	18.31	ug/l	100
57) 1,3-Dichloropropane	10.71	76	216073	19.33	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	301702	86.87	ug/l	99
59) 2-Hexanone	10.75	43	355942	88.81	ug/l	100
60) Dibromochloromethane	10.90	129	147069	19.40	ug/l	100
61) 1,2-Dibromoethane	11.01	107	124229	18.97	ug/l	99
64) Tetrachloroethene	10.63	164	141823	19.32	ug/l	98
65) Chlorobenzene	11.44	112	381175	18.87	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	144571	19.56	ug/l	99
67) Ethyl Benzene	11.51	91	613986	18.70	ug/l	99
68) m/p-Xylenes	11.62	106	484182	38.85	ug/l	100
69) o-Xylene	11.95	106	231059	19.28	ug/l	100
70) Styrene	11.97	104	362232	17.99	ug/l	100
71) Bromoform	12.13	173	100152	19.71	ug/l #	99
73) Isopropylbenzene	12.25	105	609164	20.42	ug/l	99
74) N-amyl acetate	12.07	43	140835	18.79	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	163488	22.07	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	130128m	20.62	ug/l	
77) Bromobenzene	12.53	156	159222	19.64	ug/l	99
78) n-propylbenzene	12.59	91	671302	20.14	ug/l	99
79) 2-Chlorotoluene	12.68	91	416538	20.06	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	502414	20.87	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	34468	18.46	ug/l	96
82) 4-Chlorotoluene	12.77	91	403070	19.67	ug/l	100
83) tert-Butylbenzene	12.99	119	441974	21.20	ug/l	97
84) 1,2,4-Trimethylbenzene	13.04	105	503011	20.77	ug/l	99
85) sec-Butylbenzene	13.17	105	560348	20.51	ug/l	99
86) p-Isopropyltoluene	13.29	119	473621	20.35	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	261607	19.01	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	250572	18.50	ug/l	100
89) n-Butylbenzene	13.62	91	336535	18.08	ug/l	99
90) Hexachloroethane	13.88	117	91776	20.79	ug/l	97
91) 1,2-Dichlorobenzene	13.65	146	259107	19.52	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	20192	18.84	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090418\
Data File : VN051014.D
Acq On : 4 Sep 2018 13:02
Operator : MD\SY
Sample : VN0904WBSD01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

Manual Integrations
APPROVED

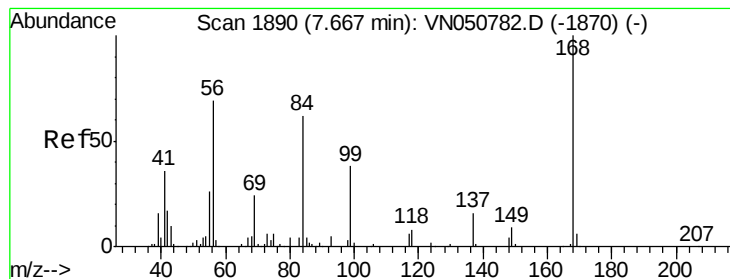
MMDadoda
9/5/2018 12:00:33 PM

9/5/2018 12:00:33 PM

Quant Time: Sep 05 01:41:06 2018
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082118W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 22 05:38:12 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	92005	16.32	ug/l	98
94) Hexachlorobutadiene	15.01	225	81490	20.04	ug/l	99
95) Naphthalene	15.14	128	171416	16.02	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	96247	17.18	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN051014.D

Acq: 4 Sep 2018 13:02

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBSD01

Tot Ion:168 Resp: 603475

Ion Ratio Lower Upper

168 100

99 48.2 39.6 59.4

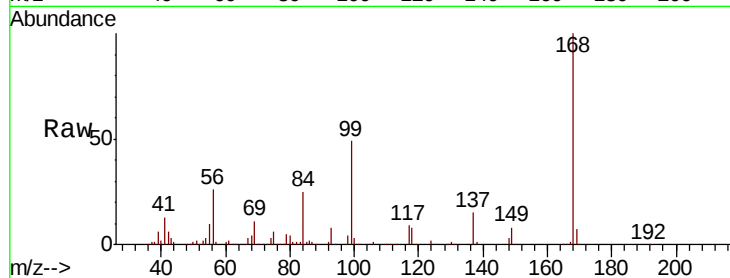
Manual Integrations

APPROVED

MMDadoda

9/5/2018 12:00:33 PM

9/5/2018 12:00:33 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

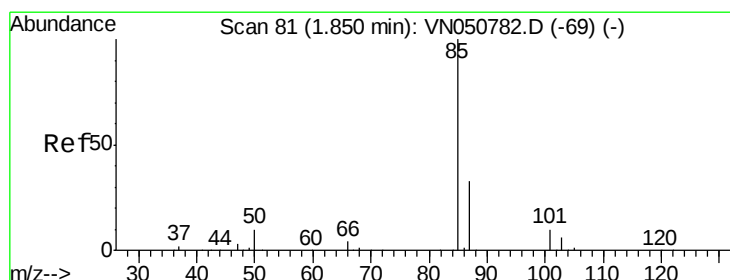
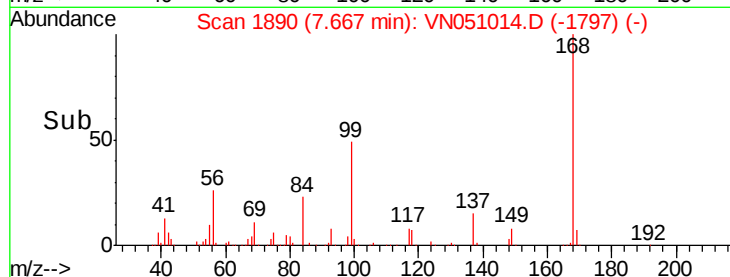
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 17.47 ug/l

RT: 1.85 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN051014.D

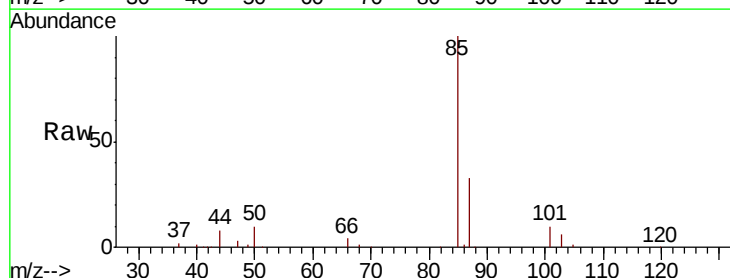
Acq: 4 Sep 2018 13:02

Tgt Ion: 85 Resp: 141120

Ion Ratio Lower Upper

85 100

87 32.9 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

120000

100000

80000

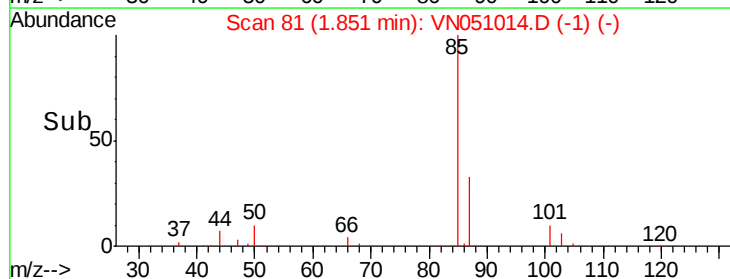
60000

40000

20000

0

Time-->





#3

Chloromethane

Concen: 16.56 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN051014.D

Acq: 4 Sep 2018 13:02

Tot Ion: 50 Resp: 164990

Ion Ratio Lower Upper

50 100

52 32.1 26.3 39.5

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBSD01

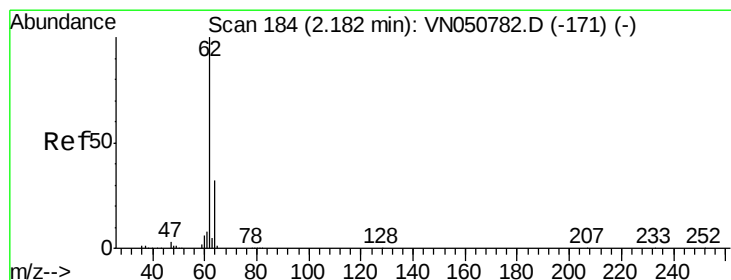
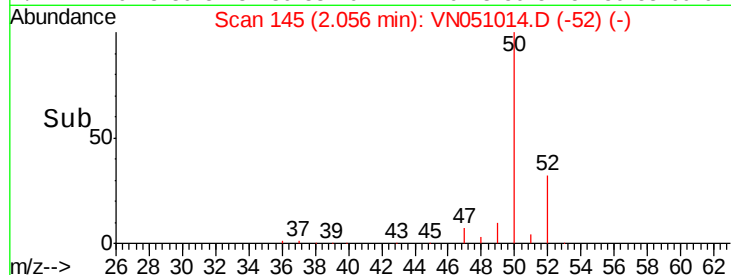
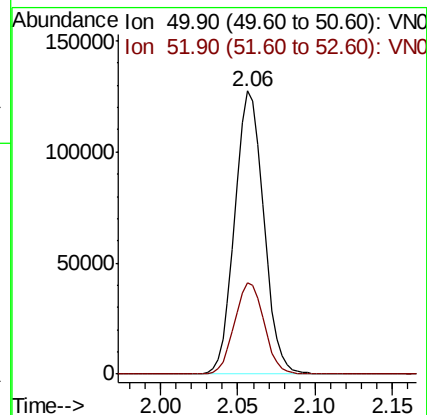
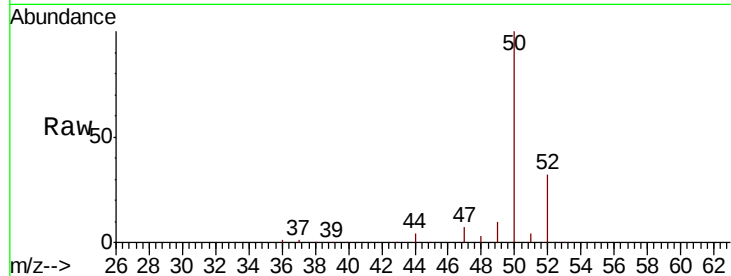
Manual Integrations

APPROVED

MMDadoda

9/5/2018 12:00:33 PM

9/5/2018 12:00:33 PM



#4

Vinyl Chloride

Concen: 17.63 ug/l

RT: 2.18 min Scan# 184

Delta R.T. 0.00 min

Lab File: VN051014.D

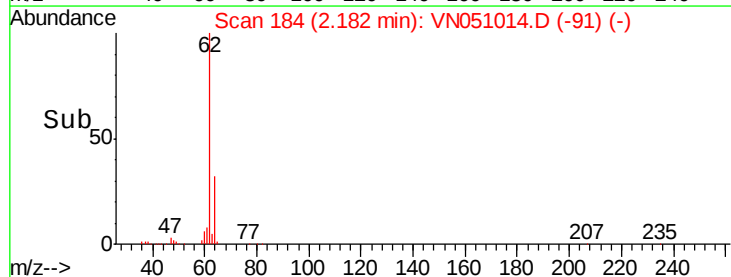
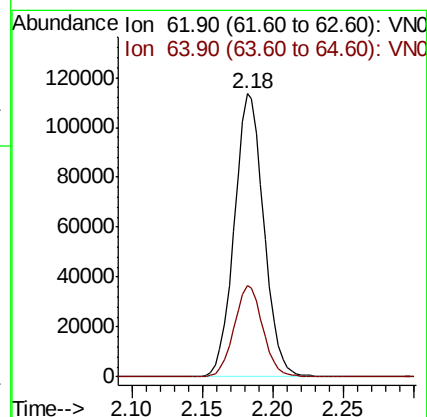
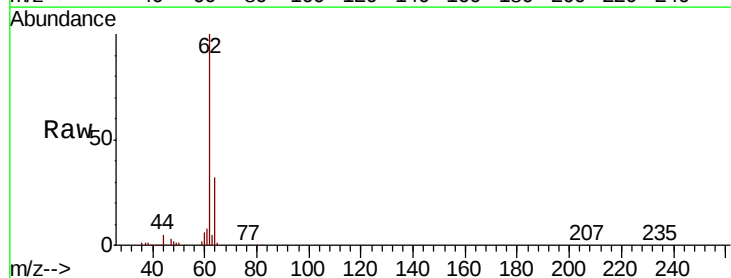
Acq: 4 Sep 2018 13:02

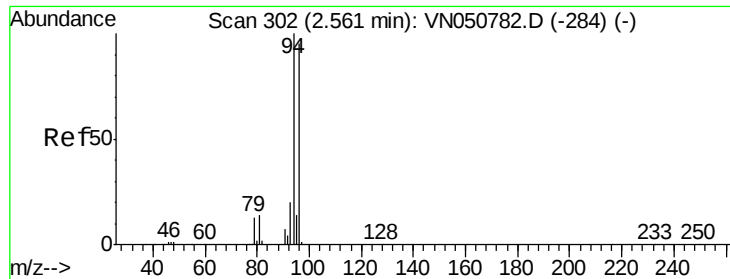
Tgt Ion: 62 Resp: 166325

Ion Ratio Lower Upper

62 100

64 32.1 25.4 38.2





#5

Bromomethane

Concen: 16.33 ug/l

RT: 2.56 min Scan# 303

Delta R.T. 0.00 min

Lab File: VN051014.D

Acq: 4 Sep 2018 13:02

Instrument :

MSVOA_N

ClientSampled :

VN0904WBSD01

Tot Ion: 94 Resp: 91431

Ion Ratio Lower Upper

94 100

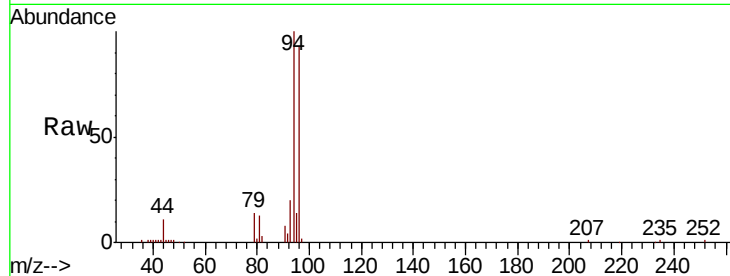
96 92.9 76.2 114.2

Manual Integrations
APPROVED

MMDadoda

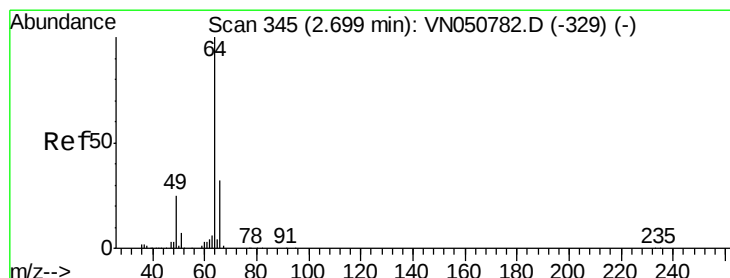
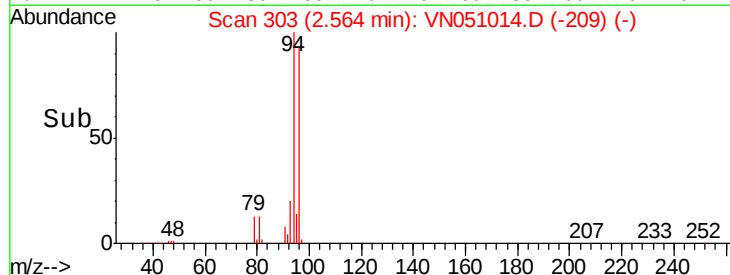
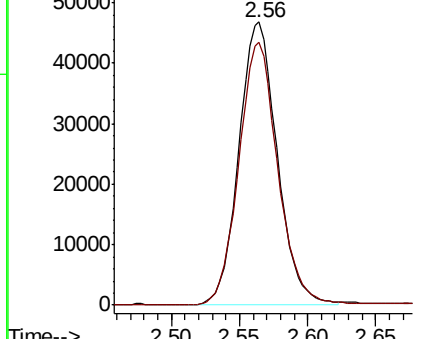
9/5/2018 12:00:33 PM

9/5/2018 12:00:33 PM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 17.87 ug/l

RT: 2.70 min Scan# 345

Delta R.T. 0.00 min

Lab File: VN051014.D

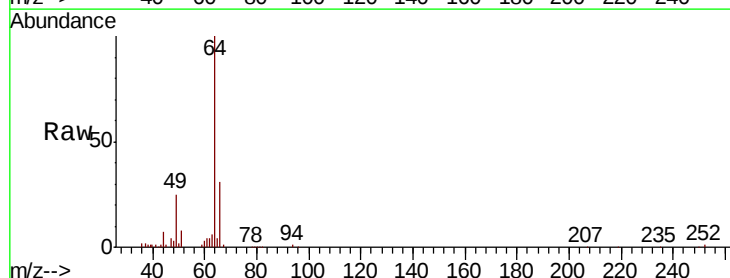
Acq: 4 Sep 2018 13:02

Tgt Ion: 64 Resp: 97418

Ion Ratio Lower Upper

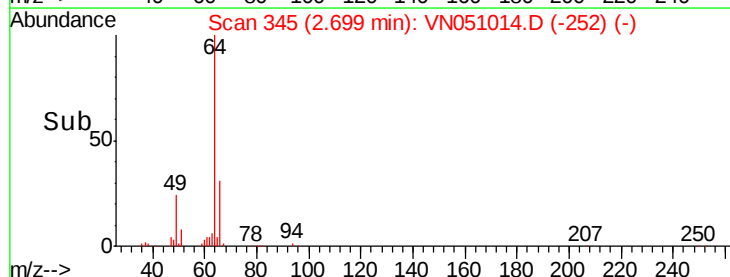
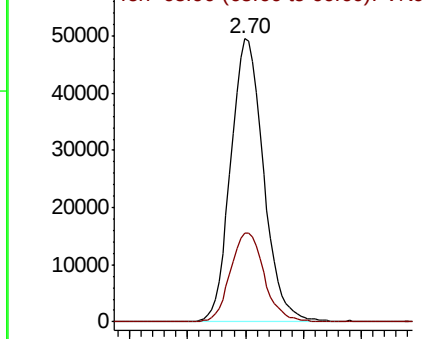
64 100

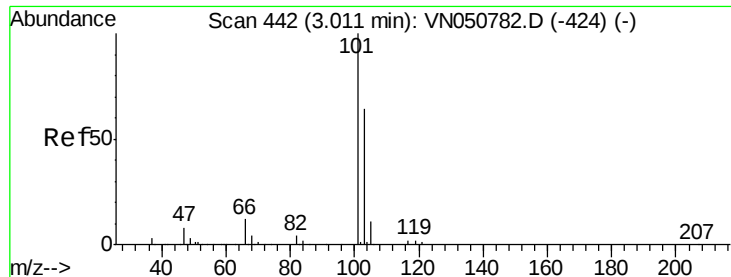
66 31.4 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

Trichlorofluoromethane
 Concen: 18.61 ug/l
 RT: 3.01 min Scan# 443
 Delta R.T. 0.00 min
 Lab File: VN051014.D
 Acq: 4 Sep 2018 13:02

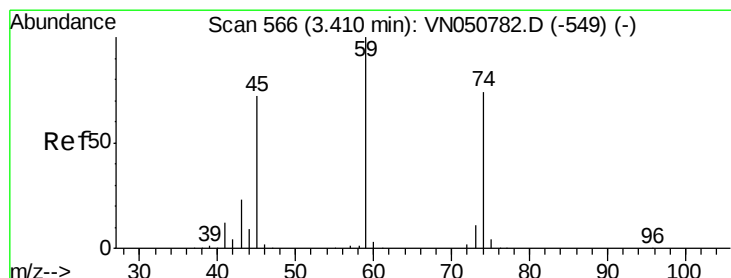
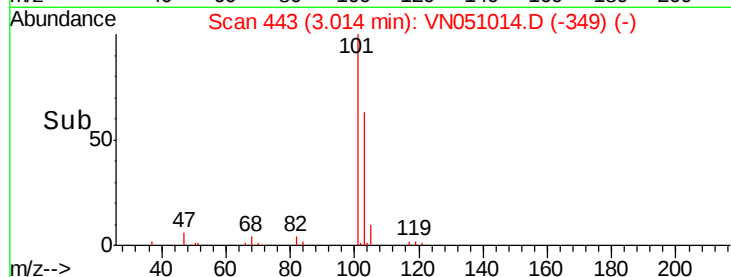
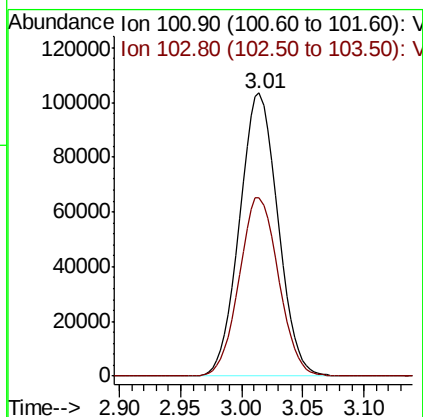
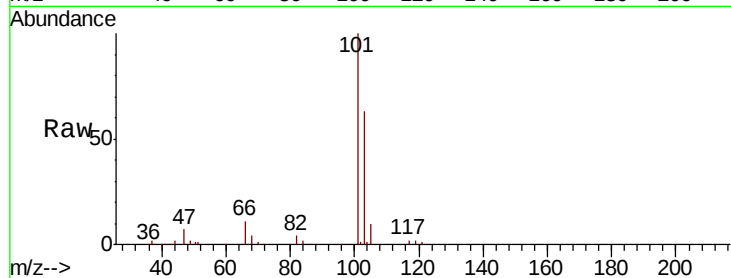
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0904WBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.2	51.6	77.4

Manual Integrations
 APPROVED

MMDadoda
 9/5/2018 12:00:33 PM

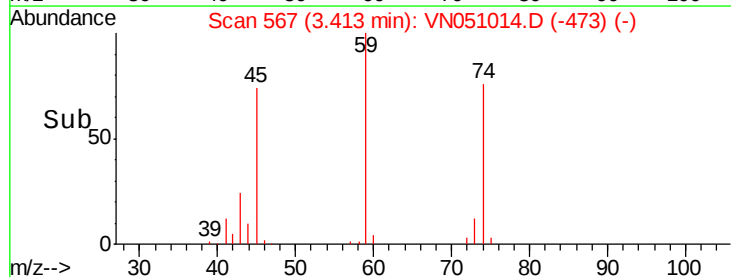
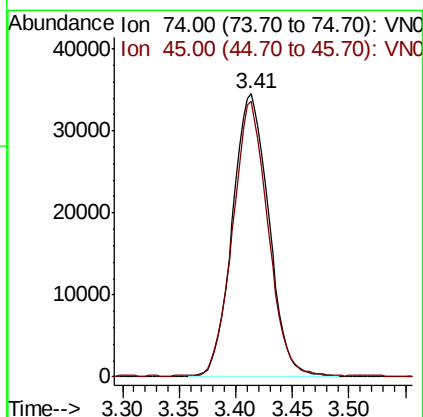
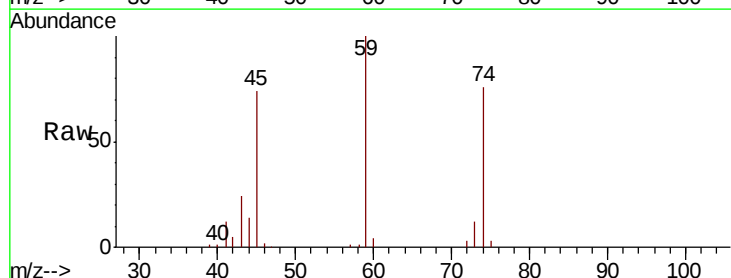
9/5/2018 12:00:33 PM



#8

Diethyl Ether
 Concen: 18.83 ug/l
 RT: 3.41 min Scan# 567
 Delta R.T. 0.00 min
 Lab File: VN051014.D
 Acq: 4 Sep 2018 13:02

Tgt Ion	Ratio	Lower	Upper
74	100		
45	95.1	48.2	144.6





#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 18.16 ug/l
 RT: 3.76 min Scan# 674
 Delta R.T. 0.00 min
 Lab File: VN051014.D
 Acq: 4 Sep 2018 13:02

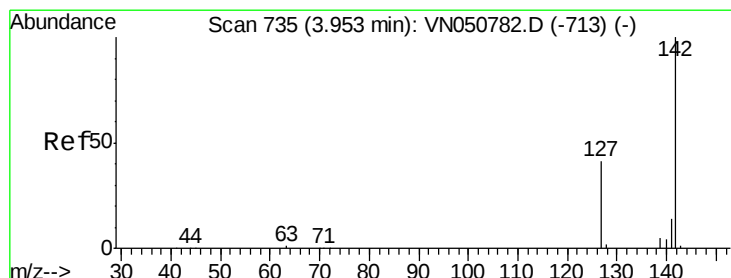
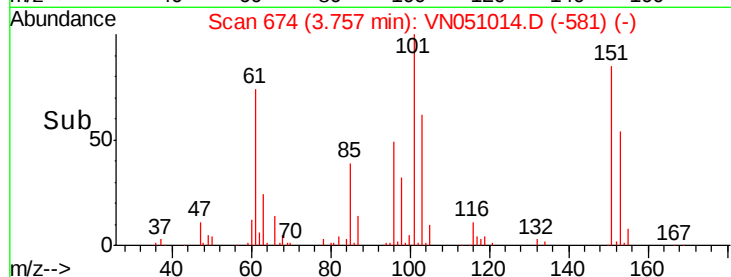
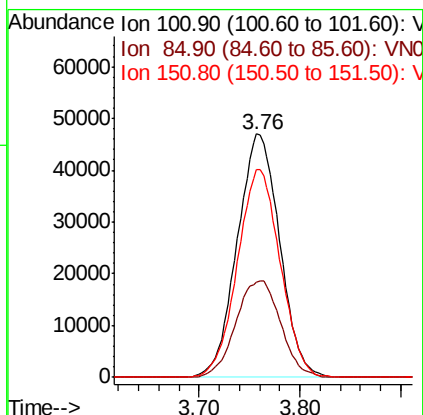
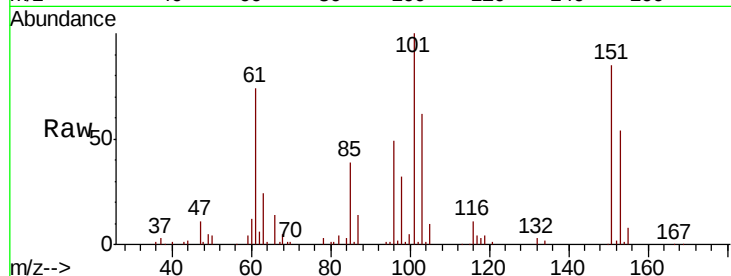
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0904WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
101	100	137094		
85	41.8	33.7	50.5	
151	86.1	67.4	101.2	

Manual Integrations
 APPROVED

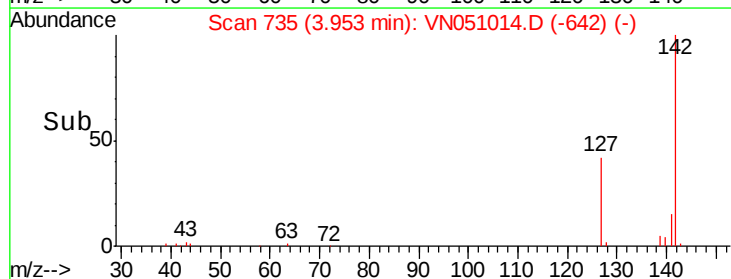
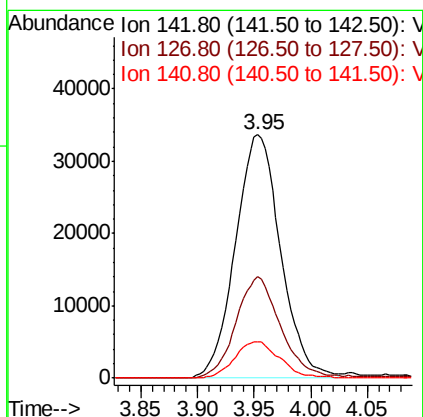
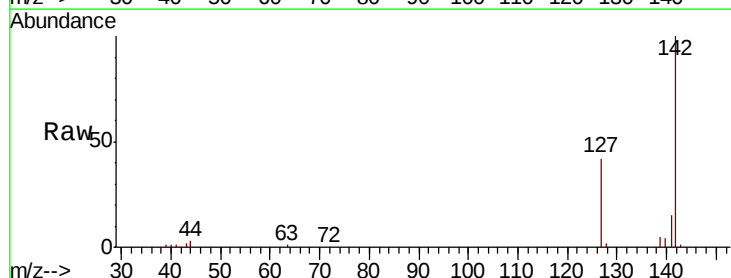
MMDadoda
 9/5/2018 12:00:33 PM

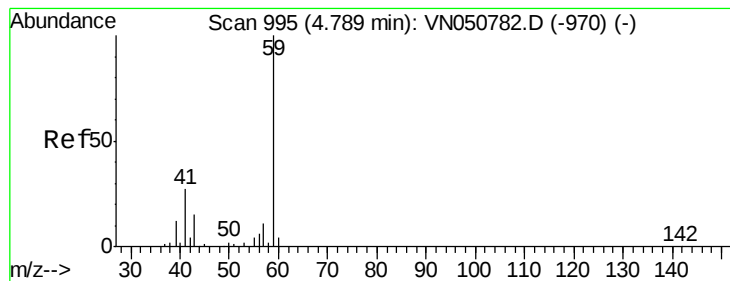
9/5/2018 12:00:33 PM



#10
 Methyl Iodide
 Concen: 18.68 ug/l
 RT: 3.95 min Scan# 735
 Delta R.T. 0.00 min
 Lab File: VN051014.D
 Acq: 4 Sep 2018 13:02

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	93606		
127	41.0	31.7	47.5	
141	14.9	11.4	17.0	





#11

Tert butyl alcohol
 Concen: 99.09 ug/l
 RT: 4.79 min Scan# 994
 Delta R.T. -0.00 min
 Lab File: VN051014.D
 Acq: 4 Sep 2018 13:02

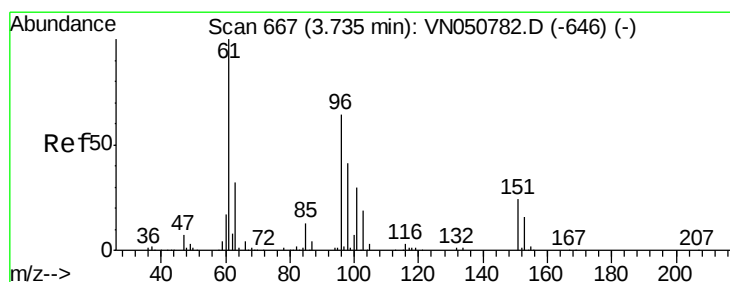
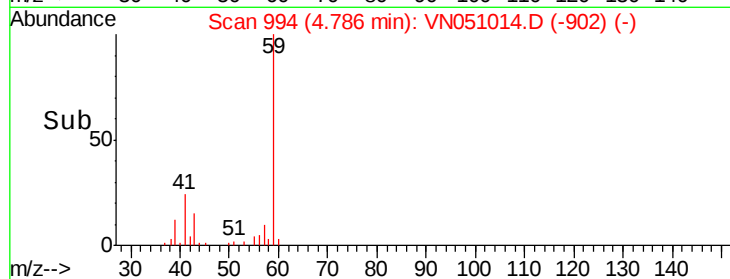
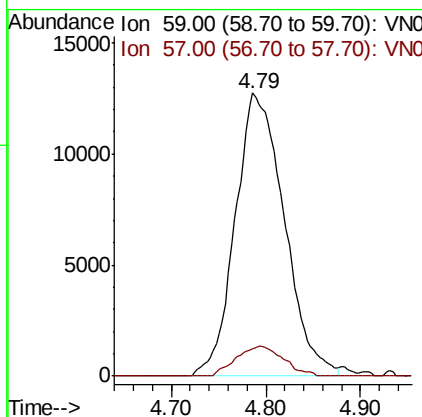
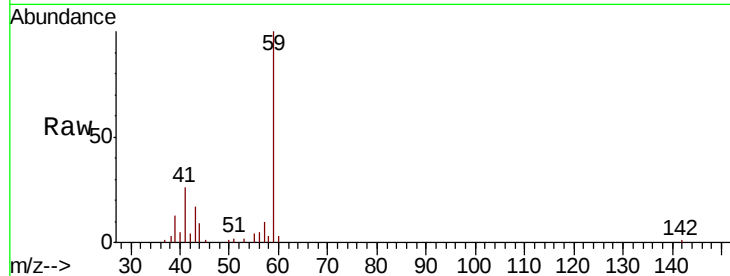
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0904WBSD01

Tot Ion	59	Resp	45840
Ion Ratio	100	Lower	Upper
57	10.3	8.3	12.5

Manual Integrations
 APPROVED

MMDadoda
 9/5/2018 12:00:33 PM

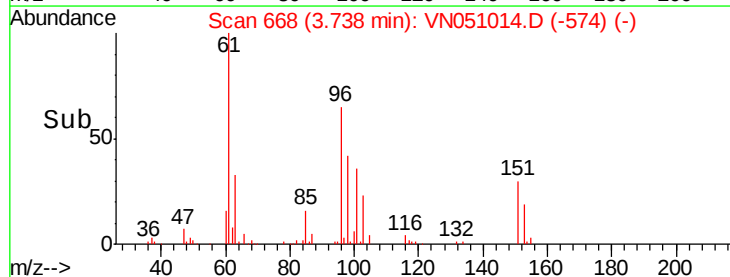
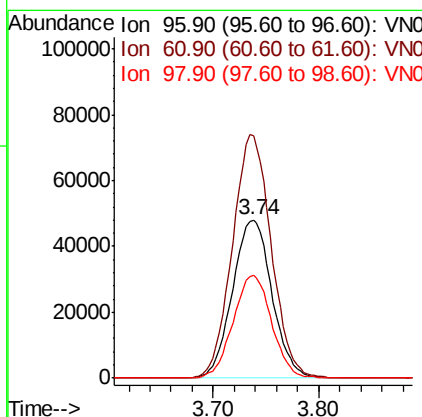
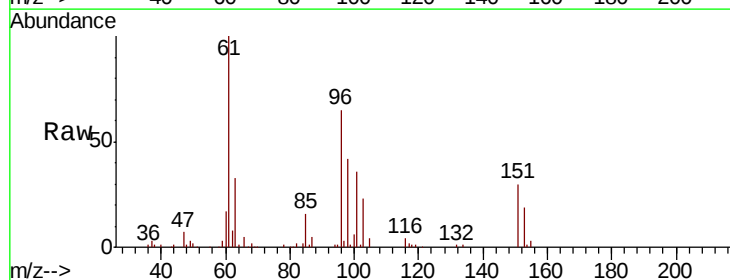
9/5/2018 12:00:33 PM



#12

1,1-Dichloroethene
 Concen: 18.40 ug/l
 RT: 3.74 min Scan# 668
 Delta R.T. 0.00 min
 Lab File: VN051014.D
 Acq: 4 Sep 2018 13:02

Tgt Ion	96	Resp	124729
Ion Ratio	100	Lower	Upper
61	153.3	124.9	187.3
98	64.8	51.1	76.7





#13

Acrolein

Concen: 114.29 ug/l

RT: 3.61 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN051014.D

Acq: 4 Sep 2018 13:02

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBSD01

Tot Ion: 56 Resp: 28044

Ion Ratio Lower Upper

56 100

55 73.0 57.7 86.5

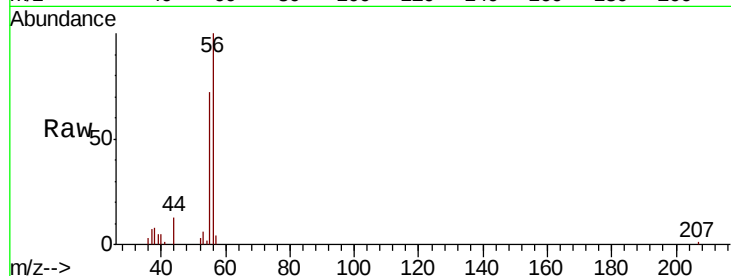
Manual Integrations

APPROVED

MMDadoda

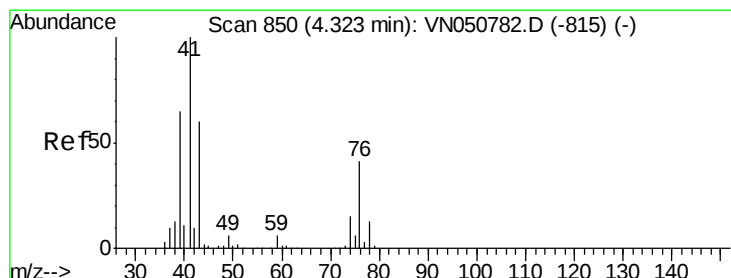
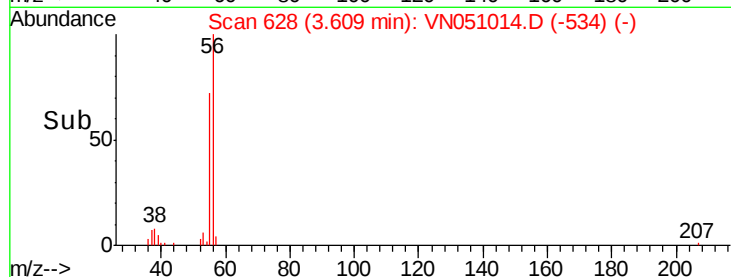
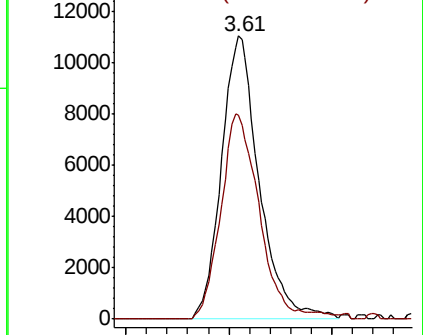
9/5/2018 12:00:33 PM

9/5/2018 12:00:33 PM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 18.04 ug/l

RT: 4.32 min Scan# 850

Delta R.T. 0.00 min

Lab File: VN051014.D

Acq: 4 Sep 2018 13:02

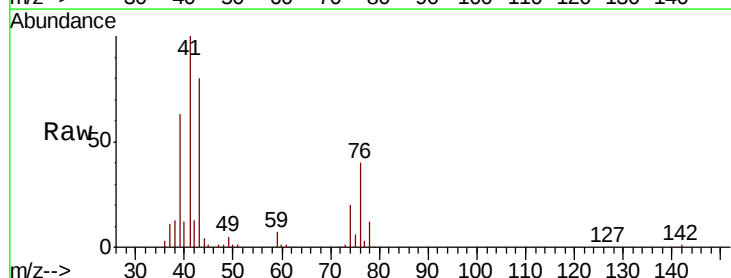
Tgt Ion: 41 Resp: 190515

Ion Ratio Lower Upper

41 100

39 60.9 50.2 75.2

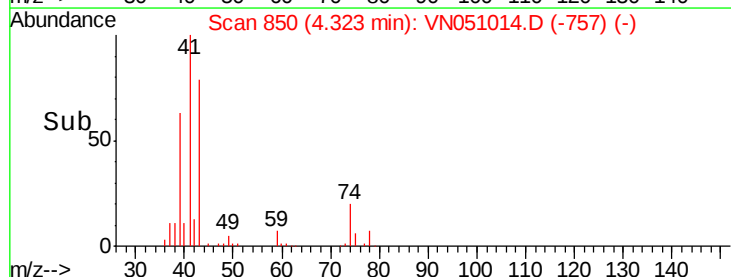
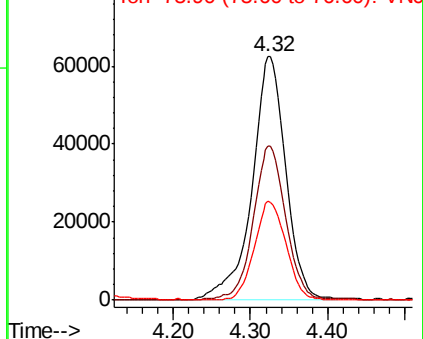
76 37.9 29.8 44.8

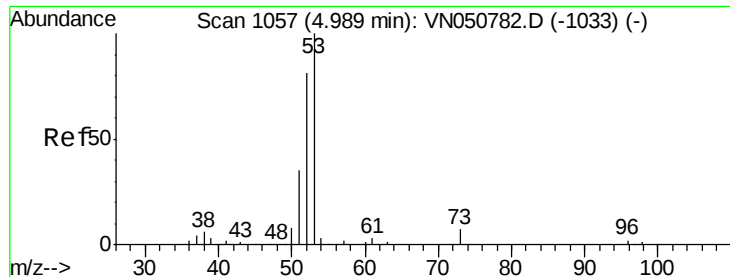


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 96.97 ug/l

RT: 5.00 min Scan# 1059

Delta R.T. 0.01 min

Lab File: VN051014.D

Acq: 4 Sep 2018 13:02

Instrument :

MSVOA_N

ClientSampleId :

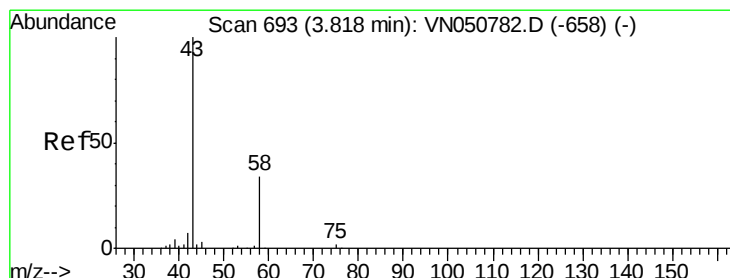
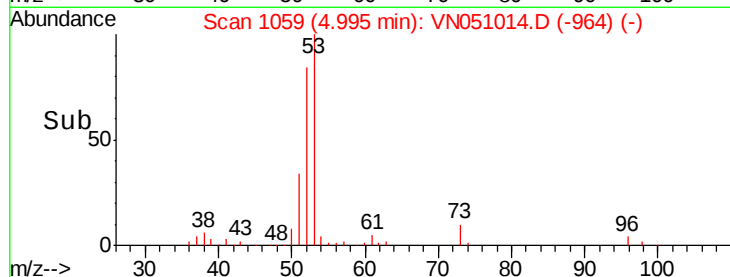
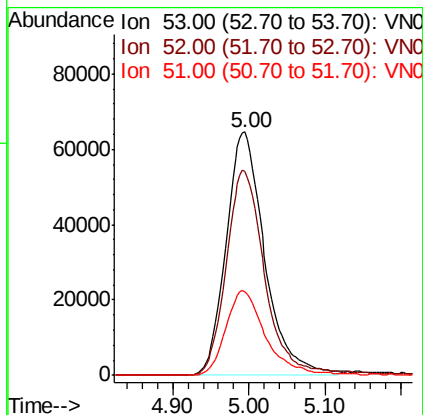
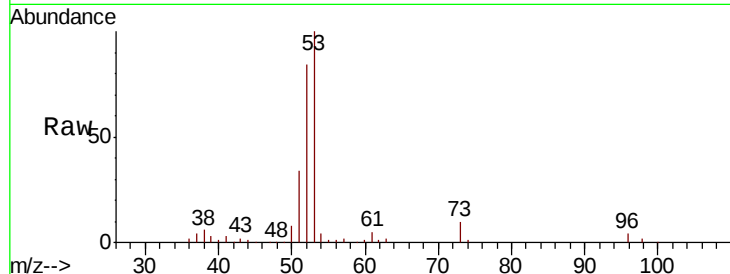
VN0904WBSD01

Tot Ion:	53	Resp:	227981
Ion	Ratio	Lower	Upper
53	100		
52	83.6	65.9	98.9
51	35.5	28.6	43.0

Manual Integrations
APPROVED

MMDadoda
9/5/2018 12:00:33 PM

9/5/2018 12:00:33 PM



#16

Acetone

Concen: 85.95 ug/l

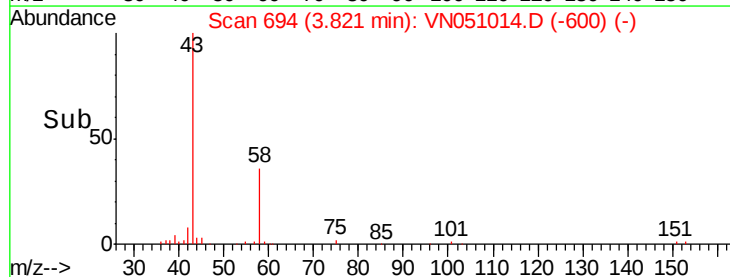
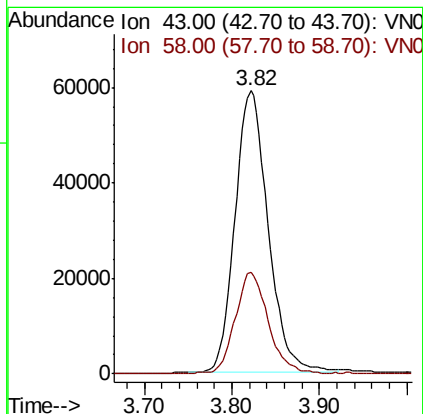
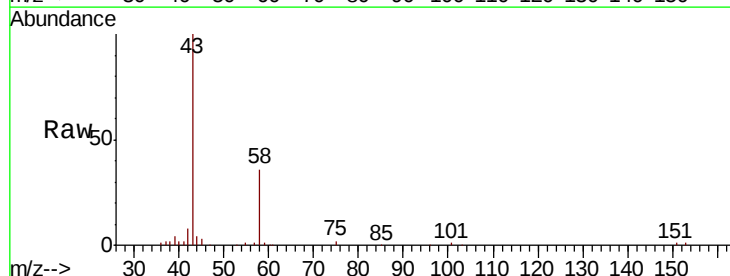
RT: 3.82 min Scan# 694

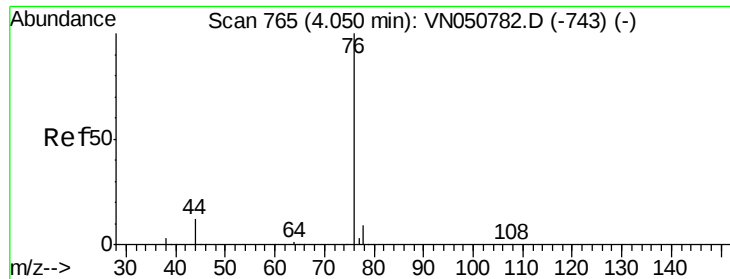
Delta R.T. 0.00 min

Lab File: VN051014.D

Acq: 4 Sep 2018 13:02

Tgt Ion:	43	Resp:	155841
Ion	Ratio	Lower	Upper
43	100		
58	35.8	27.2	40.8





#17
Carbon Disulfide
Concen: 15.55 ug/l
RT: 4.05 min Scan# 766
Delta R.T. 0.00 min
Lab File: VN051014.D
Acq: 4 Sep 2018 13:02

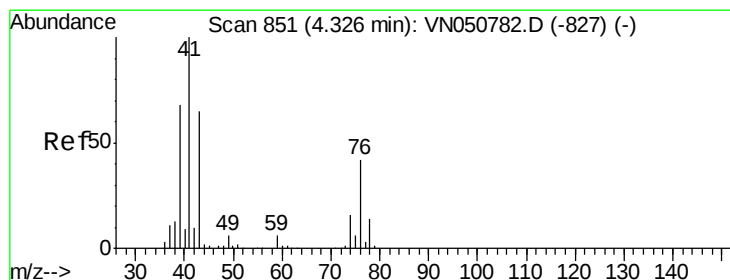
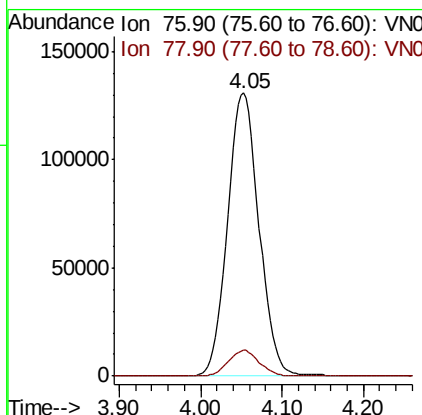
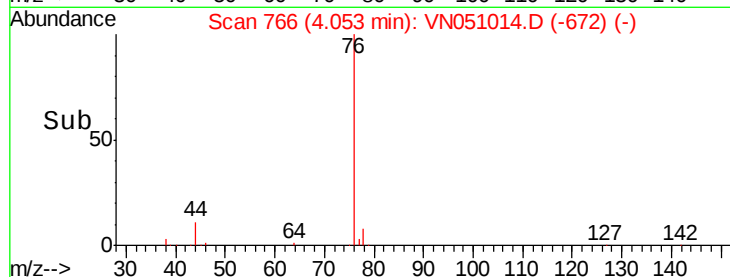
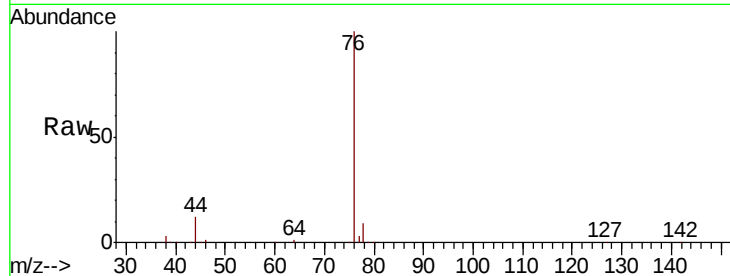
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.3	10.9

Manual Integrations
APPROVED

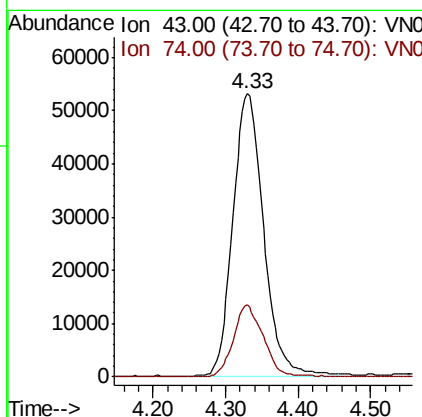
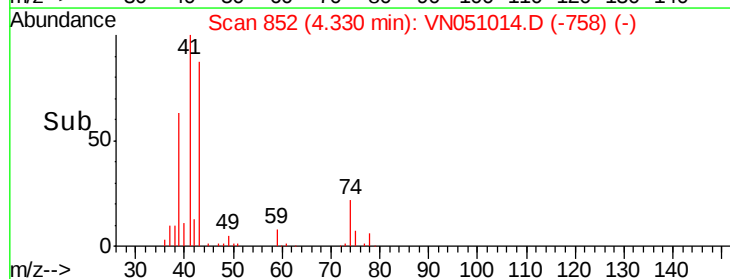
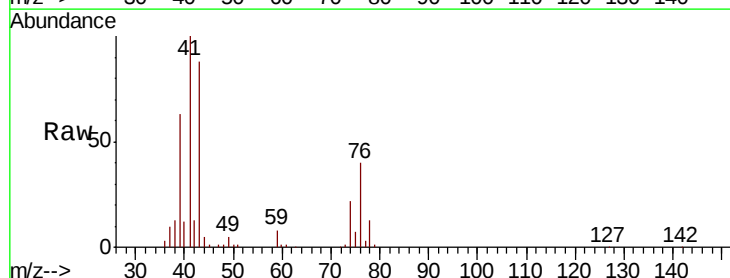
MMDadoda
9/5/2018 12:00:33 PM

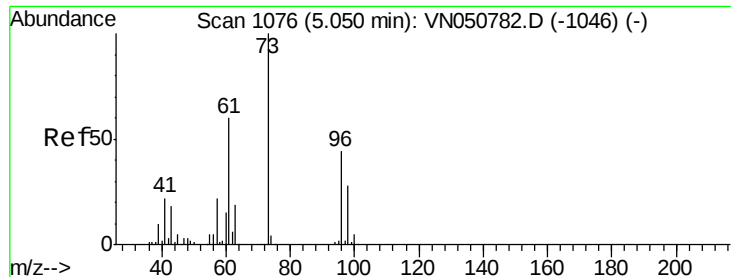
9/5/2018 12:00:33 PM



#18
Methyl Acetate
Concen: 23.10 ug/l
RT: 4.33 min Scan# 852
Delta R.T. 0.00 min
Lab File: VN051014.D
Acq: 4 Sep 2018 13:02

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.5	19.8	29.8





#19
Methyl tert-butyl Ether
Concen: 19.55 ug/l
RT: 5.05 min Scan# 1077
Delta R.T. 0.00 min
Lab File: VN051014.D
Acq: 4 Sep 2018 13:02

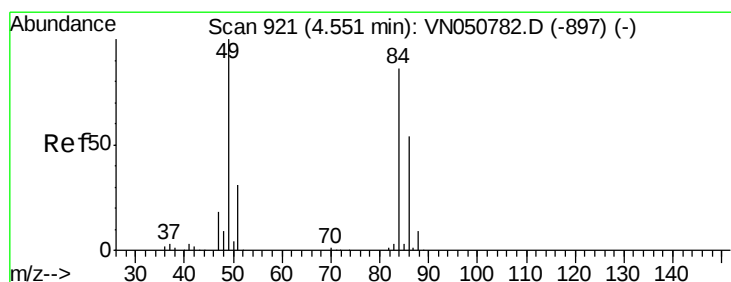
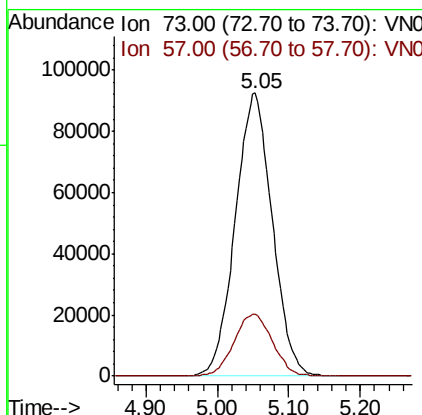
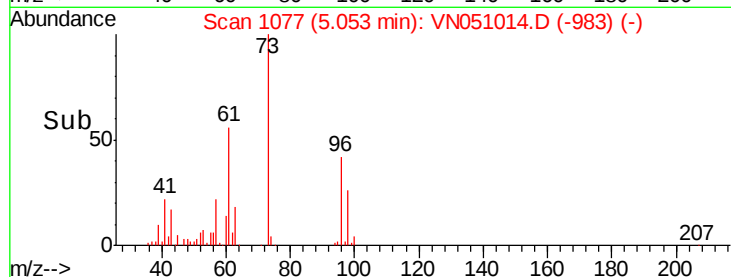
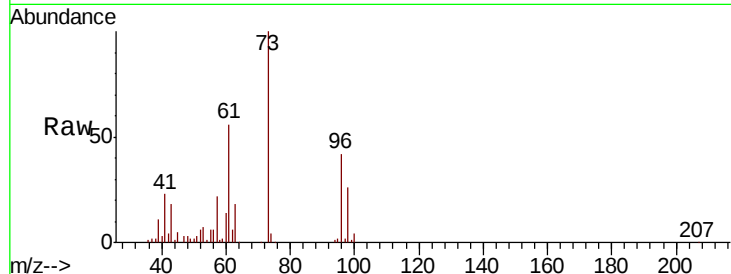
Instrument :
MSVOA_N
ClientSampled :
VN0904WBSD01

Tot Ion: 73 Resp: 333355
Ion Ratio Lower Upper
73 100
57 21.9 17.8 26.8

Manual Integrations
APPROVED

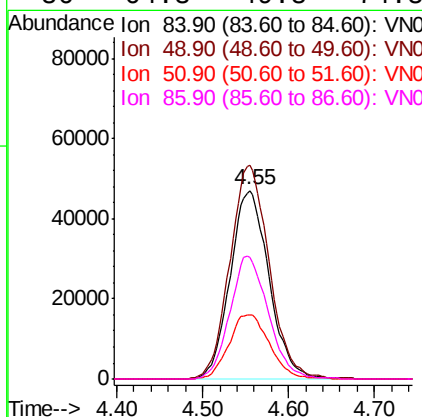
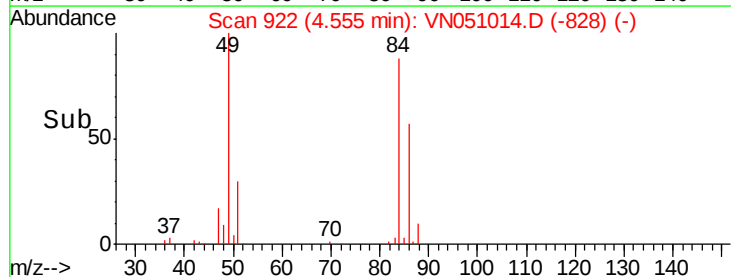
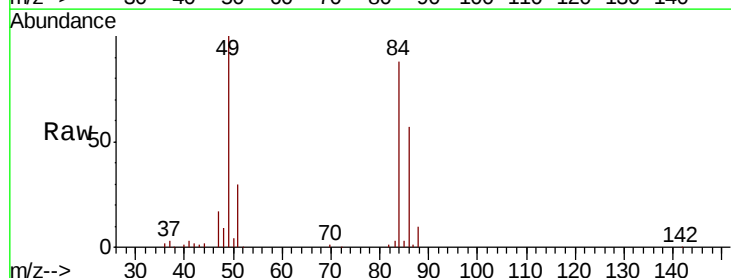
MMDadoda
9/5/2018 12:00:33 PM

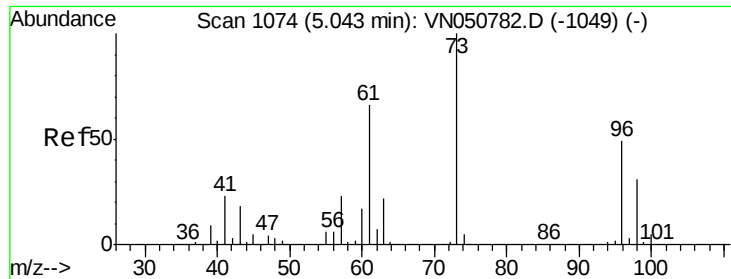
9/5/2018 12:00:33 PM



#20
Methylene Chloride
Concen: 18.04 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN051014.D
Acq: 4 Sep 2018 13:02

Tgt Ion: 84 Resp: 147727
Ion Ratio Lower Upper
84 100
49 113.4 93.2 139.8
51 34.0 29.0 43.6
86 64.3 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 17.75 ug/l

RT: 5.04 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VN051014.D

Acq: 4 Sep 2018 13:02

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBSD01

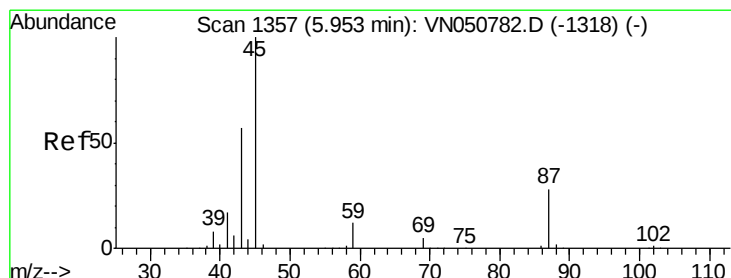
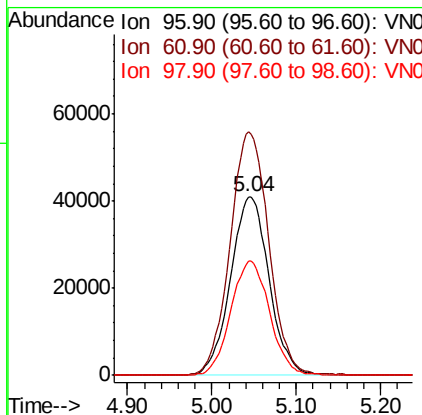
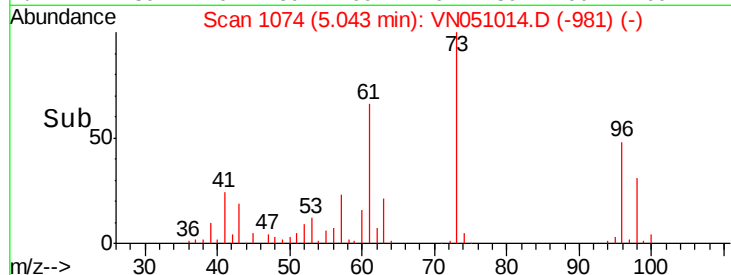
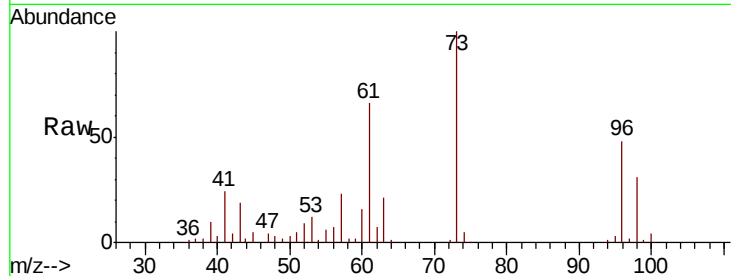
Tot Ion:	96	Resp:	130158
Ion	Ratio	Lower	Upper
96	100		
61	136.4	107.4	161.0
98	64.0	50.7	76.1

Manual Integrations
APPROVED

MMDadoda

9/5/2018 12:00:33 PM

9/5/2018 12:00:33 PM



#22

Diisopropyl ether

Concen: 19.98 ug/l

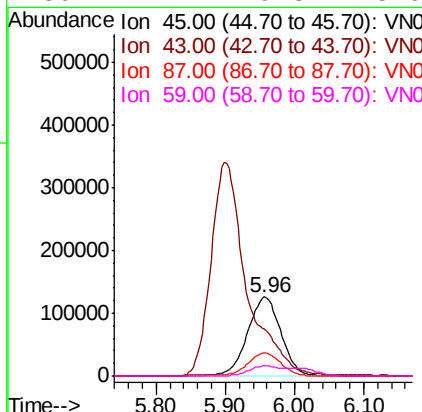
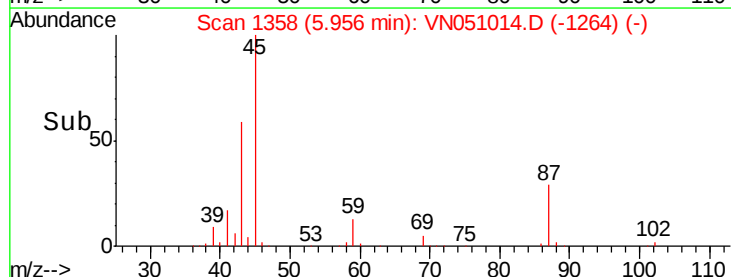
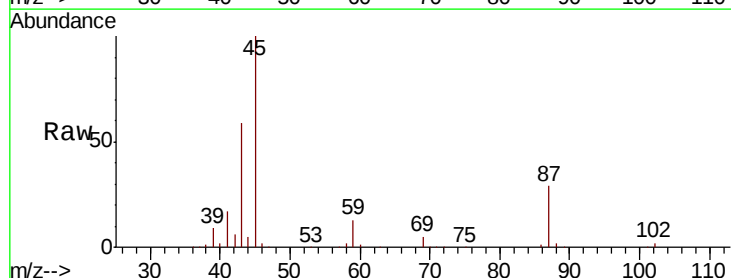
RT: 5.96 min Scan# 1358

Delta R.T. 0.00 min

Lab File: VN051014.D

Acq: 4 Sep 2018 13:02

Tgt Ion:	45	Resp:	420452
Ion	Ratio	Lower	Upper
45	100		
43	57.6	45.9	68.9
87	29.0	22.7	34.1
59	12.4	9.3	13.9





#23
 Vinyl Acetate
 Concen: 90.29 ug/l
 RT: 5.90 min Scan# 1340
 Delta R.T. 0.00 min
 Lab File: VN051014.D
 Acq: 4 Sep 2018 13:02

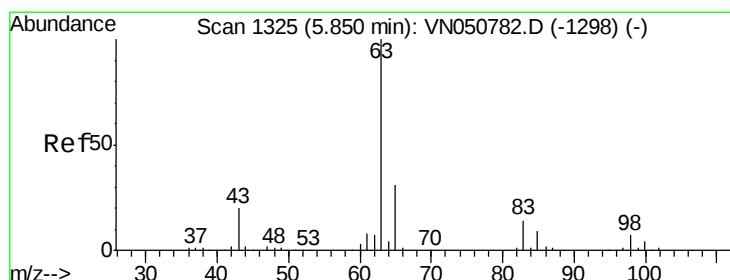
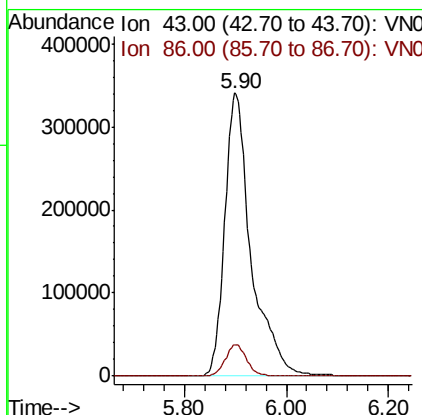
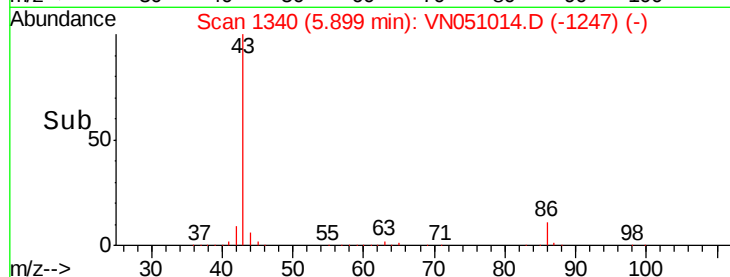
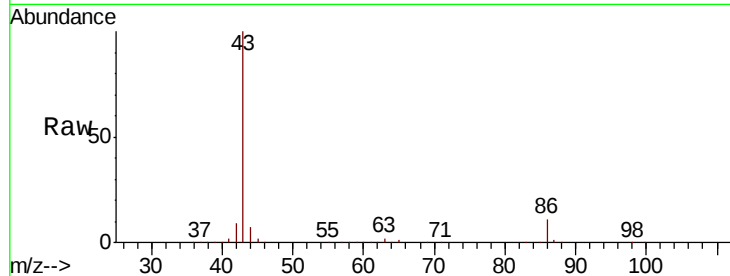
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0904WBSD01

Tot Ion: 43 Resp: 1223808
 Ion Ratio Lower Upper
 43 100
 86 11.3 8.7 13.1

Manual Integrations
 APPROVED

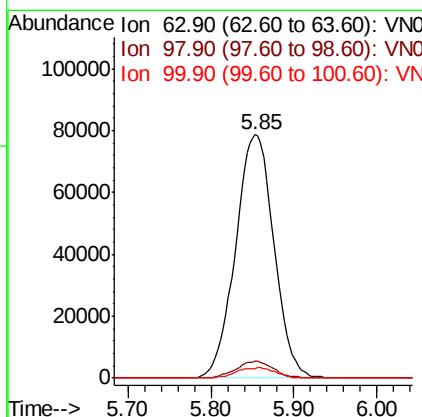
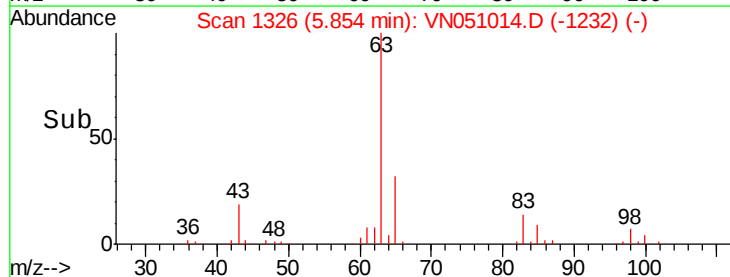
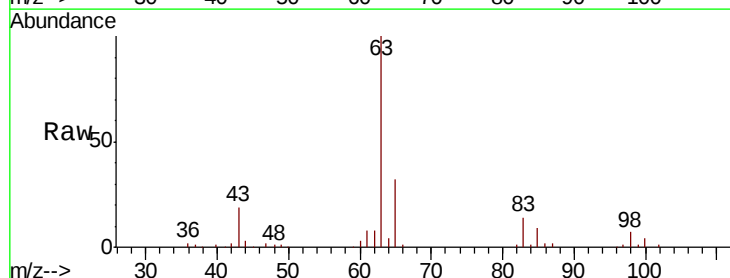
MMDadoda
 9/5/2018 12:00:33 PM

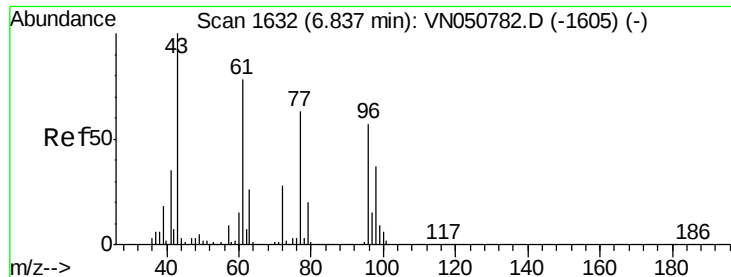
9/5/2018 12:00:33 PM



#24
 1,1-Dichloroethane
 Concen: 18.68 ug/l
 RT: 5.85 min Scan# 1326
 Delta R.T. 0.00 min
 Lab File: VN051014.D
 Acq: 4 Sep 2018 13:02

Tgt Ion: 63 Resp: 252398
 Ion Ratio Lower Upper
 63 100
 98 6.9 3.3 9.8
 100 4.1 2.1 6.5





#25

2-Butanone

Concen: 84.29 ug/l

RT: 6.84 min Scan# 1633

Delta R.T. 0.00 min

Lab File: VN051014.D

Acq: 4 Sep 2018 13:02

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBSD01

Tot Ion: 43 Resp: 246781

Ion Ratio Lower Upper

43 100

72 28.4 22.3 33.5

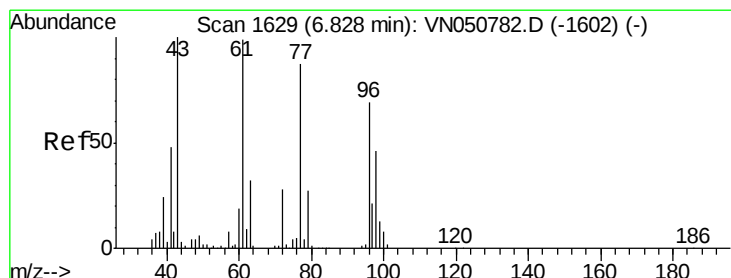
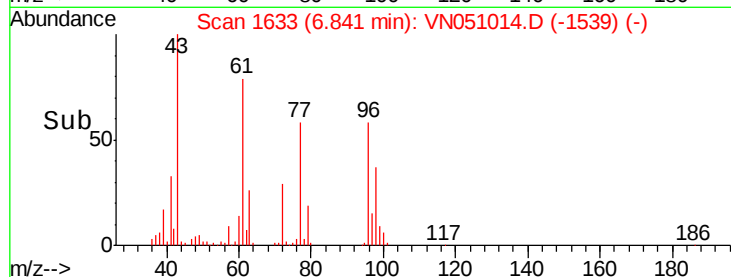
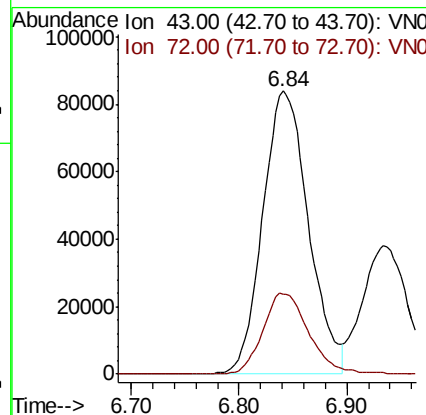
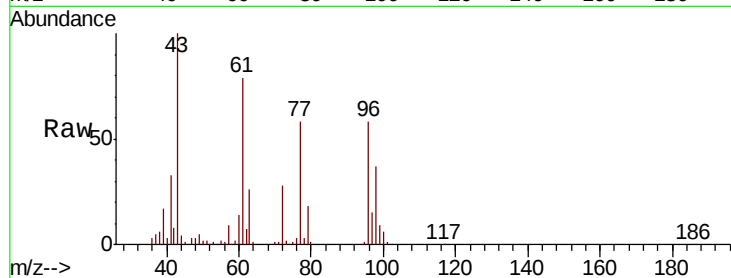
Manual Integrations

APPROVED

MMDadoda

9/5/2018 12:00:33 PM

9/5/2018 12:00:33 PM



#26

2,2-Dichloropropane

Concen: 16.70 ug/l

RT: 6.83 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VN051014.D

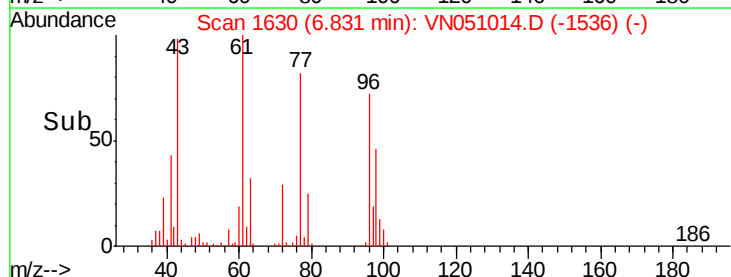
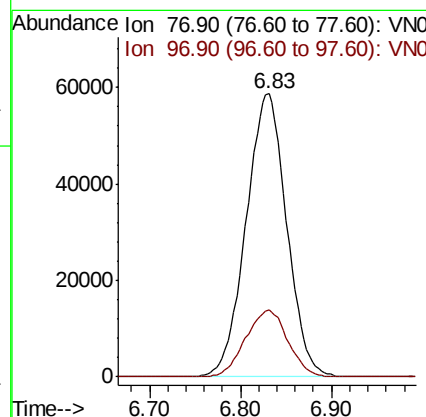
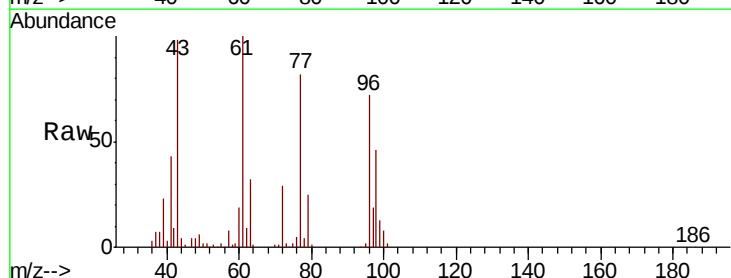
Acq: 4 Sep 2018 13:02

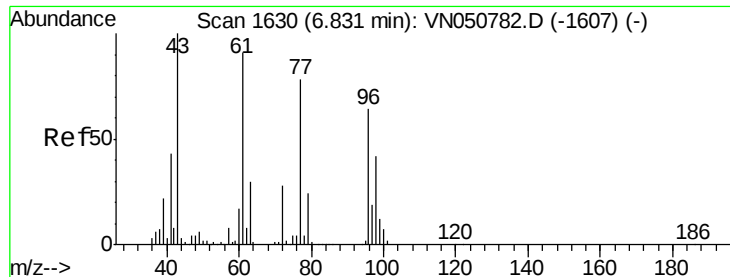
Tgt Ion: 77 Resp: 181374

Ion Ratio Lower Upper

77 100

97 24.6 12.0 36.0





#27

cis-1,2-Dichloroethene

Concen: 19.09 ug/l

RT: 6.83 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VN051014.D

Acq: 4 Sep 2018 13:02

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBSD01

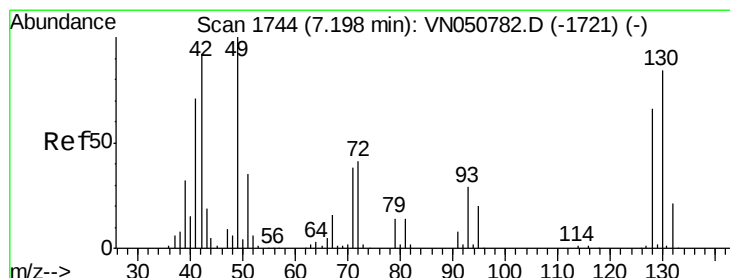
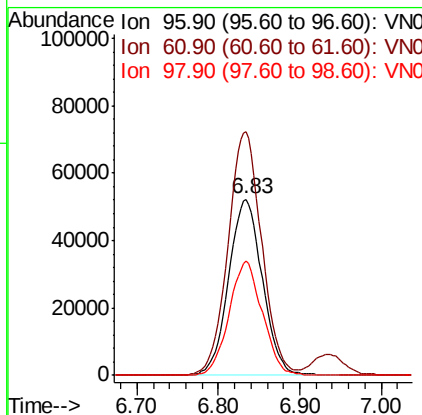
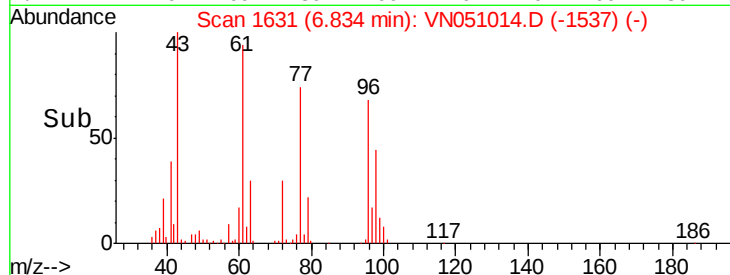
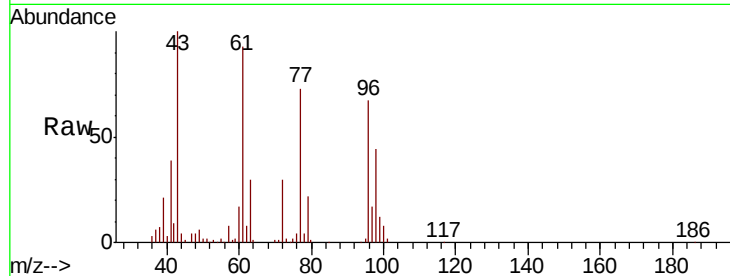
Tot Ion:	96	Resp:	150906
Ion	Ratio	Lower	Upper
96	100		
61	137.8	0.0	283.4
98	63.8	0.0	129.8

Manual Integrations
APPROVED

MMDadoda

9/5/2018 12:00:33 PM

9/5/2018 12:00:33 PM



#28

Bromochloromethane

Concen: 19.21 ug/l

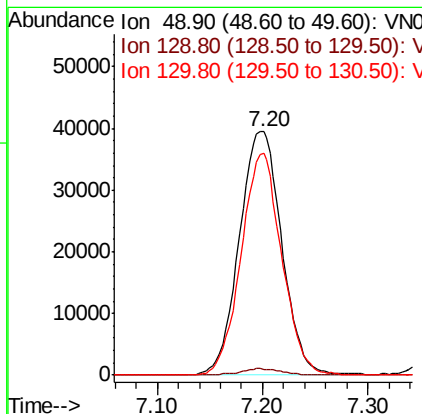
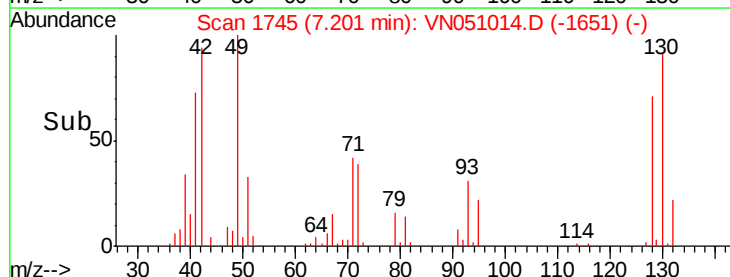
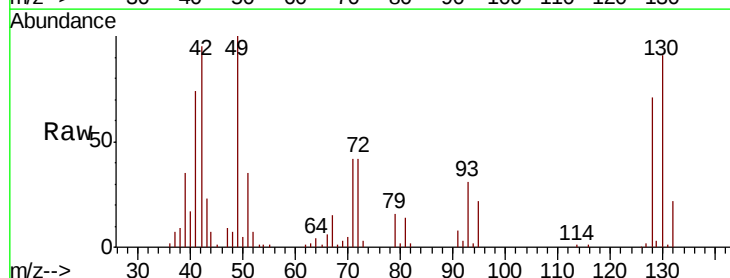
RT: 7.20 min Scan# 1745

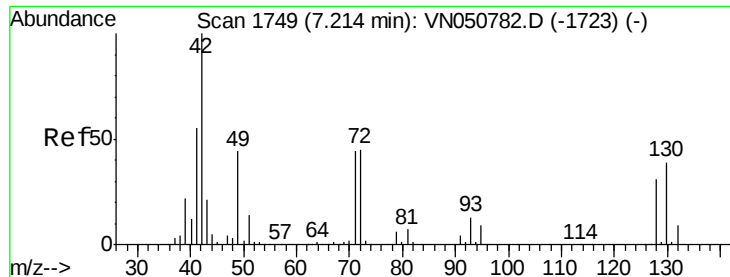
Delta R.T. 0.00 min

Lab File: VN051014.D

Acq: 4 Sep 2018 13:02

Tgt Ion:	49	Resp:	110294
Ion	Ratio	Lower	Upper
49	100		
129	2.4	0.0	4.2
130	87.2	67.1	100.7





#29
Tetrahydrofuran
Concen: 100.81 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. 0.00 min
Lab File: VN051014.D
Acq: 4 Sep 2018 13:02

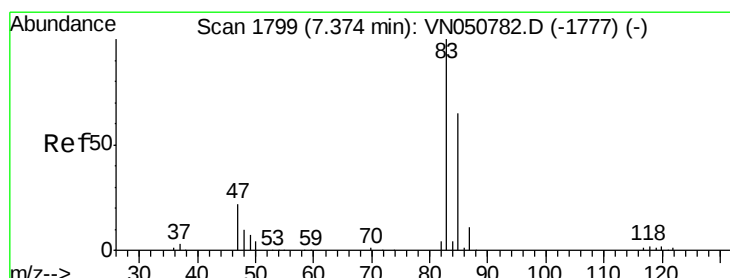
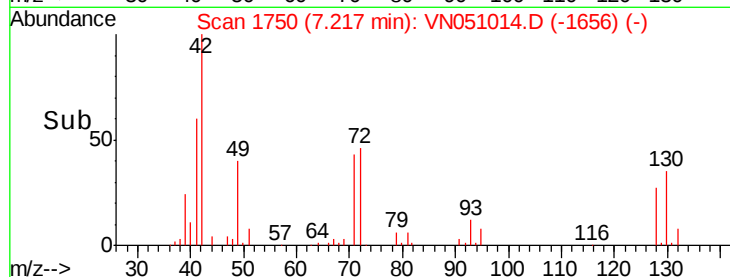
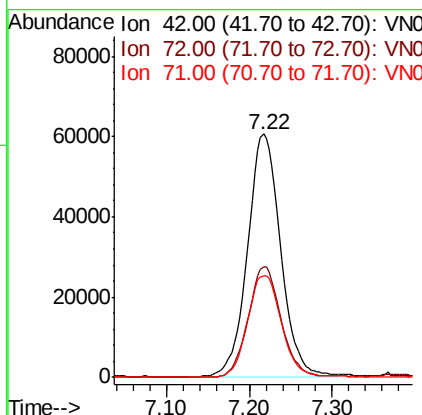
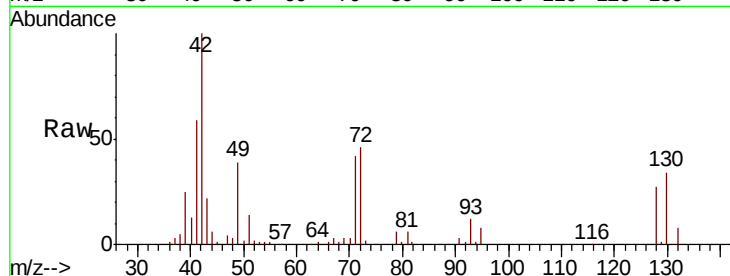
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.0	35.5	53.3
71	42.6	33.7	50.5

Manual Integrations
APPROVED

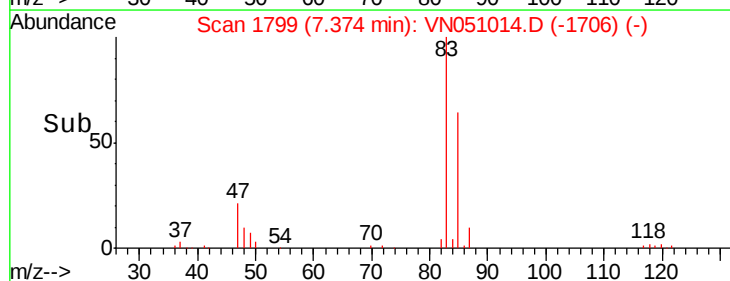
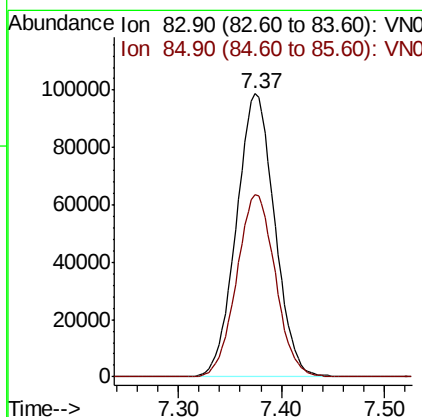
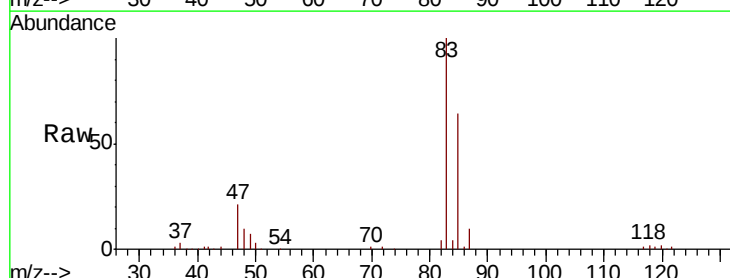
MMDadoda
9/5/2018 12:00:33 PM

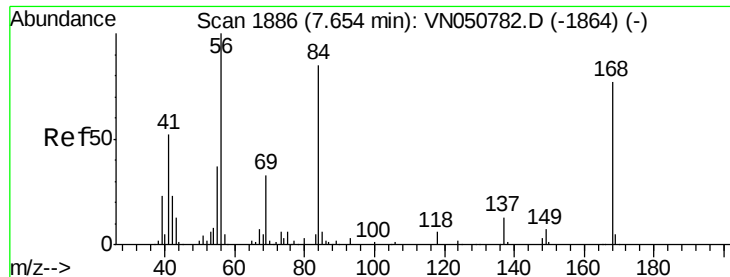
9/5/2018 12:00:33 PM



#30
Chloroform
Concen: 19.05 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. 0.00 min
Lab File: VN051014.D
Acq: 4 Sep 2018 13:02

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.4	52.2	78.4





#31
Cyclohexane
Concen: 17.46 ug/l
RT: 7.66 min Scan# 1887
Delta R.T. 0.00 min
Lab File: VN051014.D
Acq: 4 Sep 2018 13:02

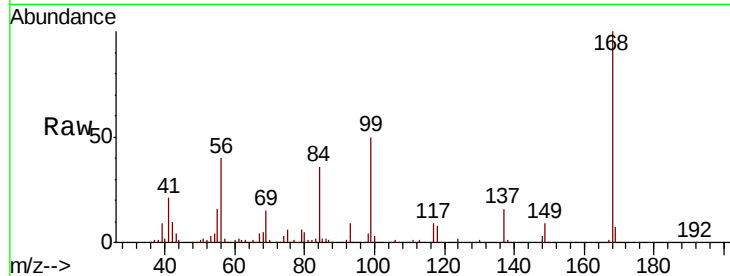
Instrument :
MSVOA_N
ClientSampled :
VN0904WBSD01

Tot Ion	Ratio	Lower	Upper
56	100		
69	37.9	26.2	39.4
84	87.4	68.3	102.5

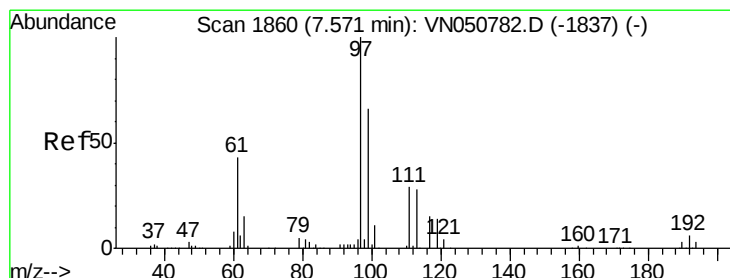
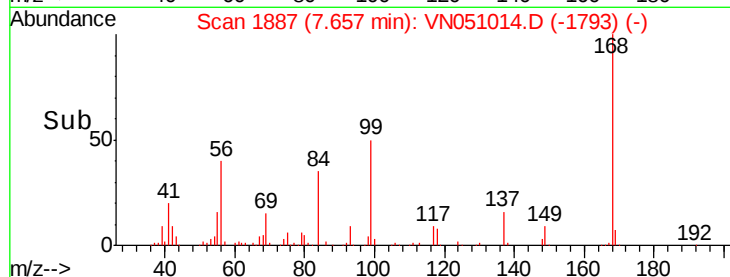
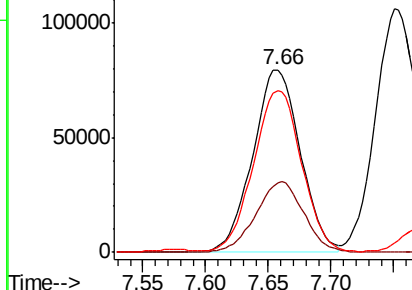
Manual Integrations
APPROVED

MMDadoda
9/5/2018 12:00:33 PM

9/5/2018 12:00:33 PM

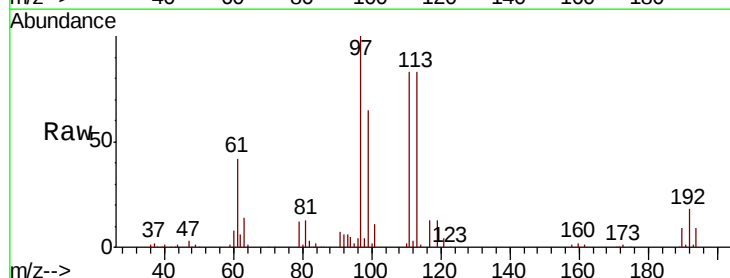


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

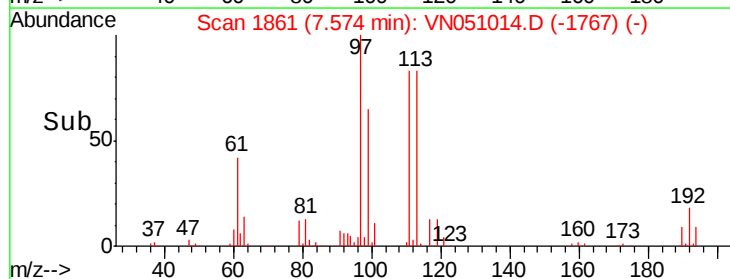
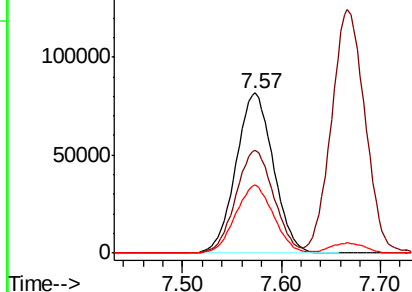


#32
1,1,1-Trichloroethane
Concen: 18.72 ug/l
RT: 7.57 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VN051014.D
Acq: 4 Sep 2018 13:02

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.8	77.6
61	42.9	34.9	52.3



Abundance Ion 96.90 (96.60 to 97.60): VN0
Ion 98.90 (98.60 to 99.60): VN0
Ion 60.90 (60.60 to 61.60): VN0





#33
 1,2-Dichloroethane-d4
 Concen: 49.30 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN051014.D
 Acq: 4 Sep 2018 13:02

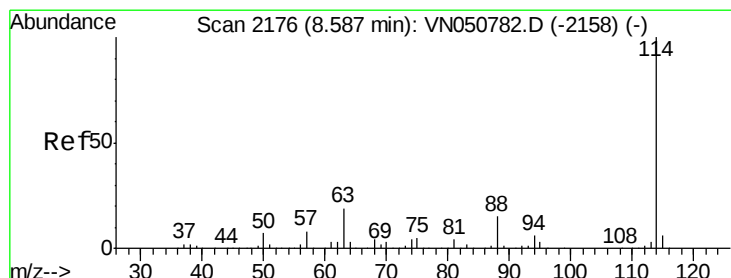
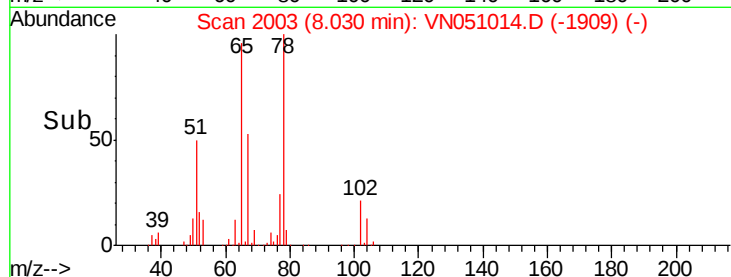
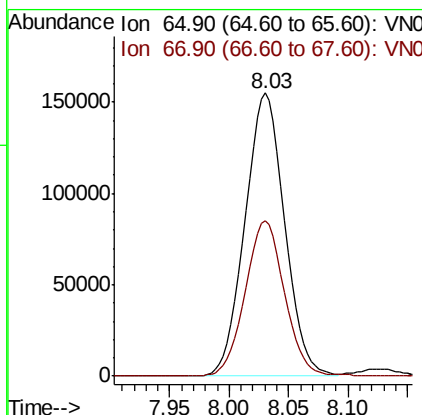
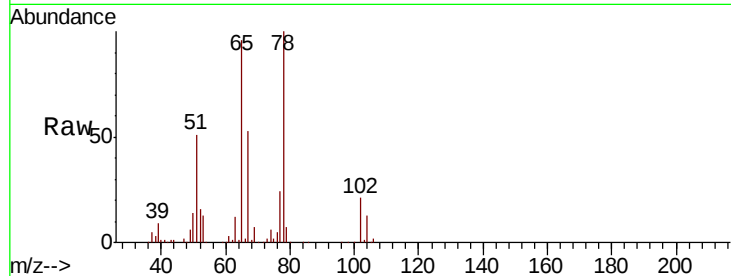
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0904WBSD01

Tot Ion: 65 Resp: 358199
 Ion Ratio Lower Upper
 65 100
 67 54.2 0.0 110.4

Manual Integrations
 APPROVED

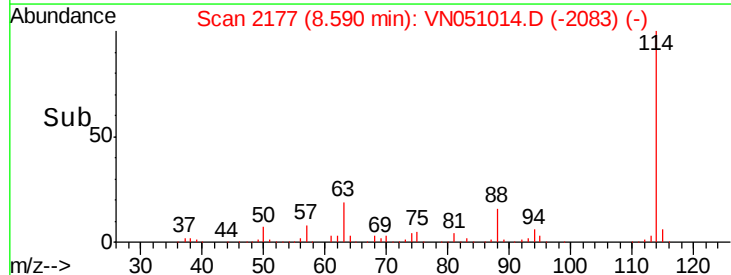
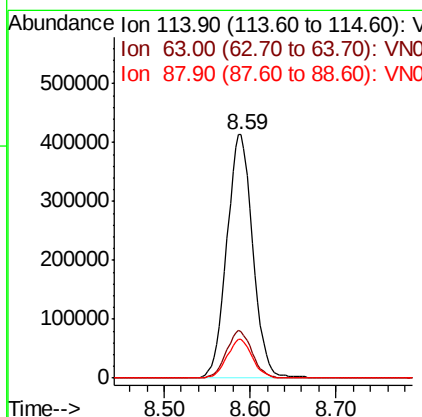
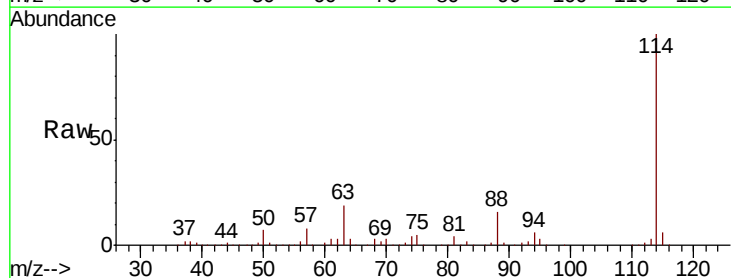
MMDadoda
 9/5/2018 12:00:33 PM

9/5/2018 12:00:33 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN051014.D
 Acq: 4 Sep 2018 13:02

Tgt Ion: 114 Resp: 865599
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 38.6
 88 15.9 0.0 30.6





#35
 Dibromofluoromethane
 Concen: 49.84 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN051014.D
 Acq: 4 Sep 2018 13:02

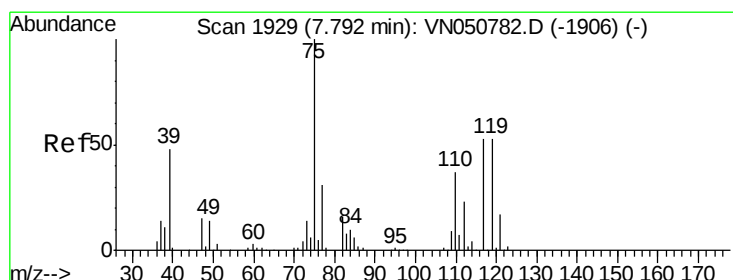
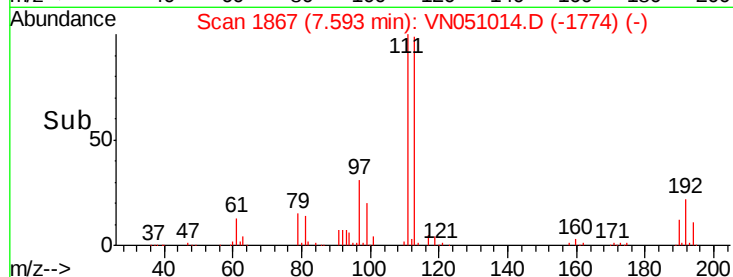
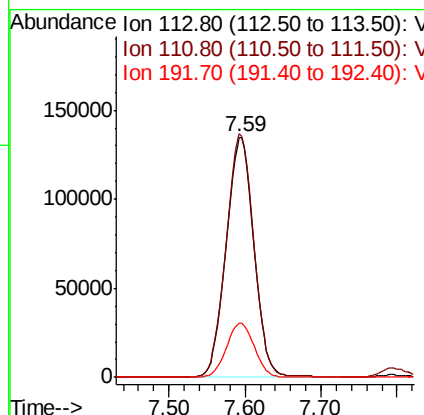
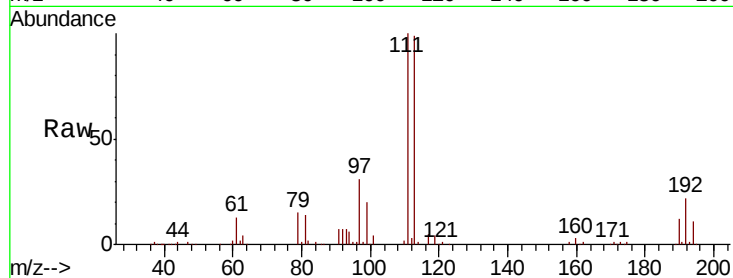
Instrument :
 MSVOA_N
 ClientSampled :
 VN0904WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	343197		
111	101.1	82.6	123.8	
192	22.6	18.0	27.0	

Manual Integrations
 APPROVED

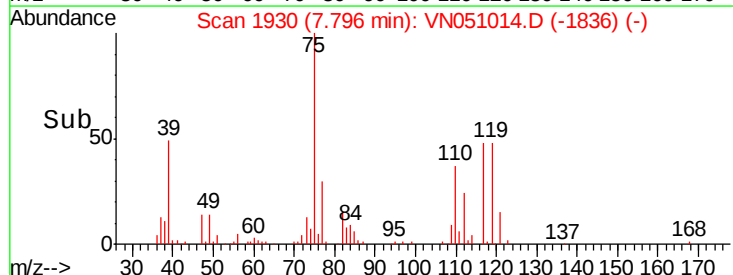
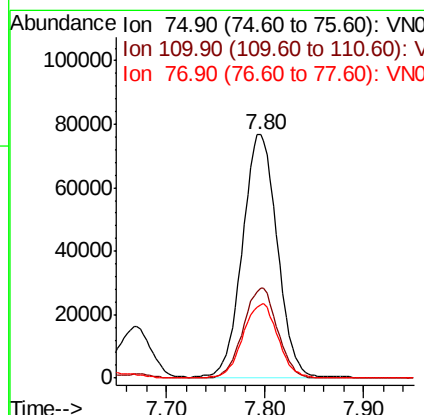
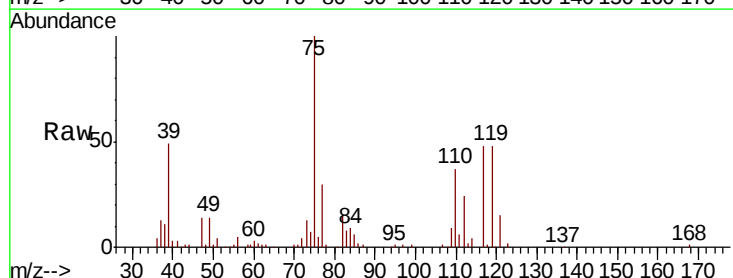
MMDadoda
 9/5/2018 12:00:33 PM

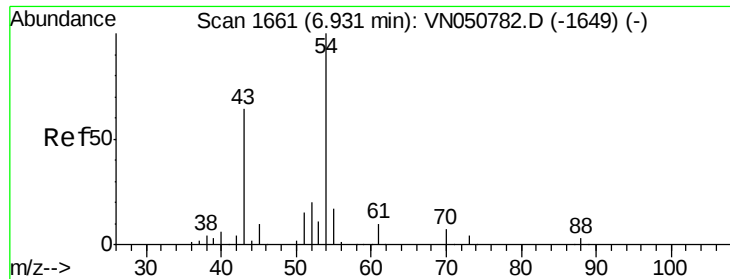
9/5/2018 12:00:33 PM



#36
 1,1-Dichloropropene
 Concen: 18.22 ug/l
 RT: 7.80 min Scan# 1930
 Delta R.T. 0.00 min
 Lab File: VN051014.D
 Acq: 4 Sep 2018 13:02

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	186084		
110	36.6	18.1	54.4	
77	31.0	24.8	37.2	





#37
Ethyl Acetate
Concen: 19.33 ug/l
RT: 6.93 min Scan# 1662
Delta R.T. 0.00 min
Lab File: VN051014.D
Acq: 4 Sep 2018 13:02

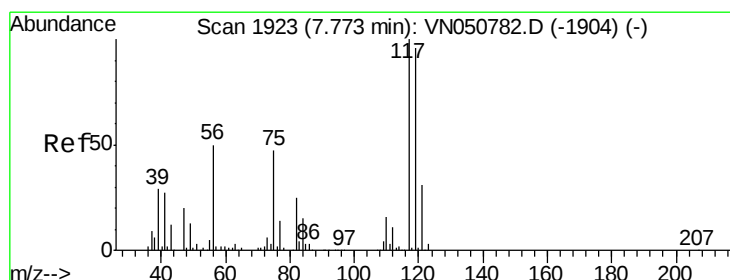
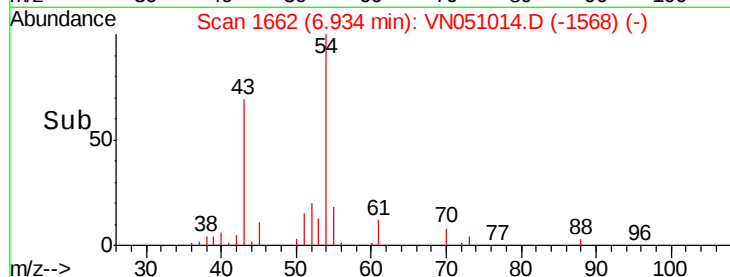
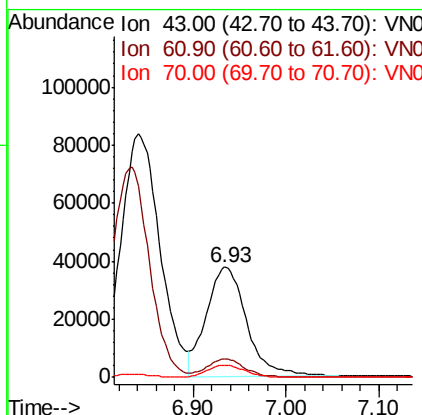
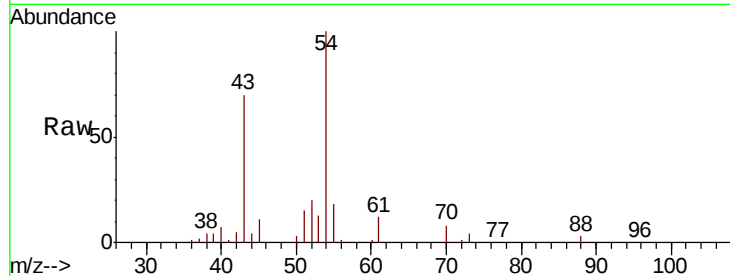
Instrument :
MSVOA_N
ClientSampled :
VN0904WBSD01

Tot Ion:	43	Resp:	113399
Ion	Ratio	Lower	Upper
43	100		
61	14.6	12.0	18.0
70	10.6	8.6	13.0

Manual Integrations
APPROVED

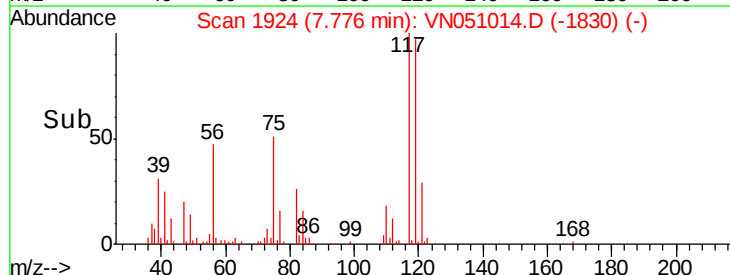
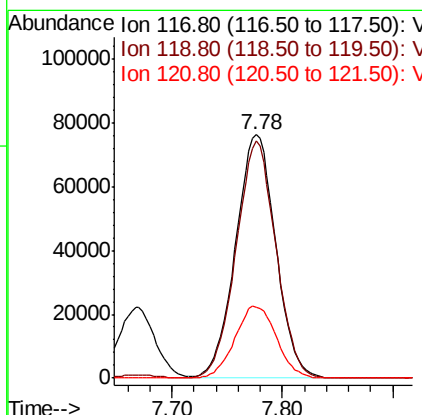
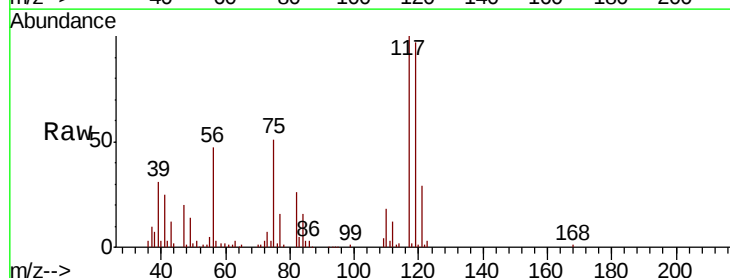
MMDadoda
9/5/2018 12:00:33 PM

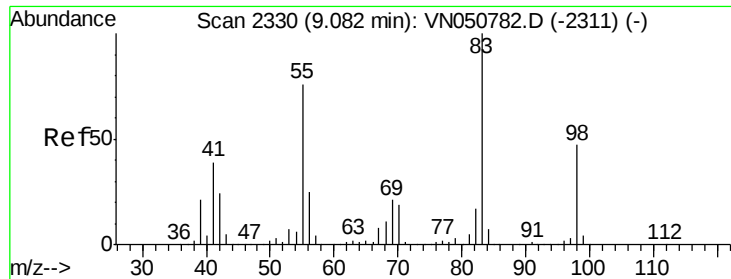
9/5/2018 12:00:33 PM



#38
Carbon Tetrachloride
Concen: 18.69 ug/l
RT: 7.78 min Scan# 1924
Delta R.T. 0.00 min
Lab File: VN051014.D
Acq: 4 Sep 2018 13:02

Tgt Ion:	117	Resp:	192966
Ion	Ratio	Lower	Upper
117	100		
119	97.2	76.3	114.5
121	29.2	24.6	36.8





#39
Methvlcvclohexane
Concen: 16.91 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VN051014.D
Acq: 4 Sep 2018 13:02

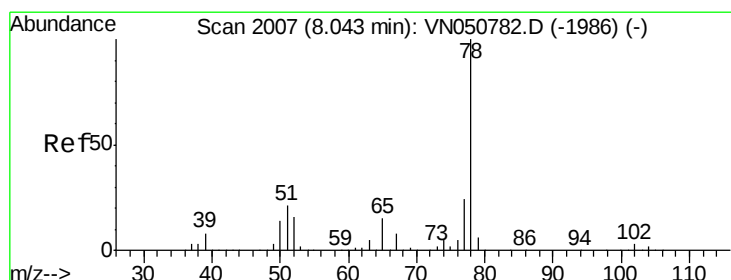
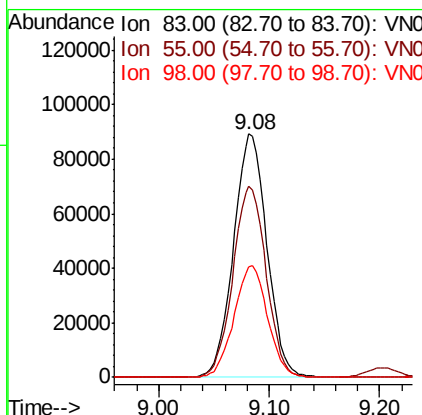
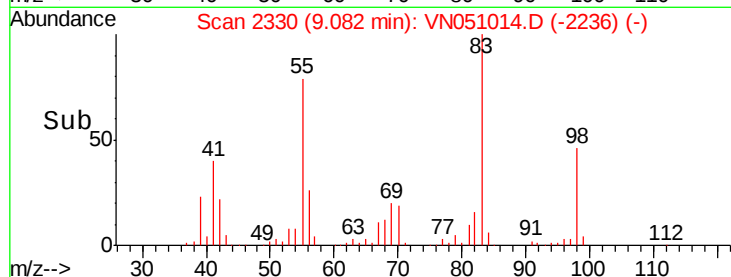
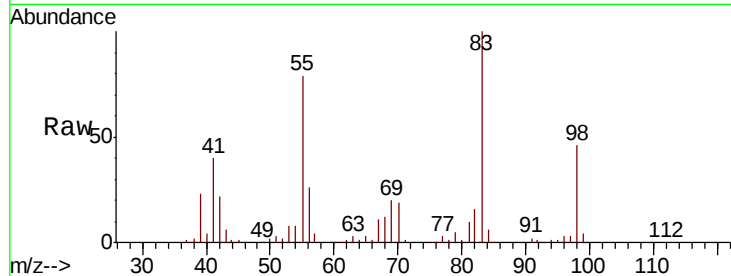
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

Tot Ion:	83.00	Resp:	186891
Ion Ratio	Lower	Upper	
83	100		
55	78.6	61.0	91.4
98	45.6	37.5	56.3

Manual Integrations
APPROVED

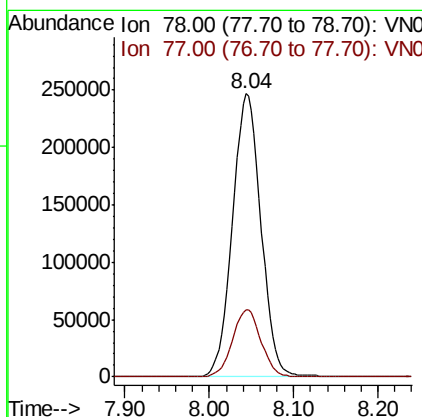
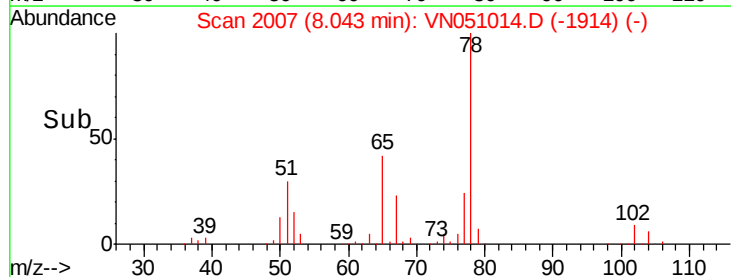
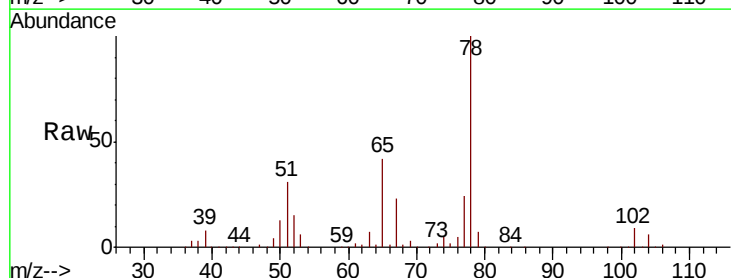
MMDadoda
9/5/2018 12:00:33 PM

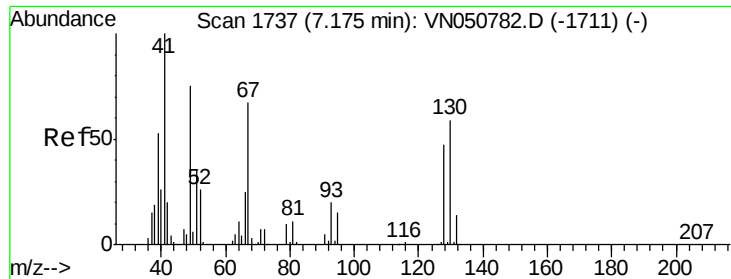
9/5/2018 12:00:33 PM



#40
Benzene
Concen: 18.88 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. 0.00 min
Lab File: VN051014.D
Acq: 4 Sep 2018 13:02

Tgt Ion:	78.00	Resp:	581389
Ion Ratio	Lower	Upper	
78	100		
77	23.7	19.0	28.4





#41
Methacrylonitrile
Concen: 15.11 ug/l
RT: 7.18 min Scan# 1737
Delta R.T. 0.00 min
Lab File: VN051014.D
Acq: 4 Sep 2018 13:02

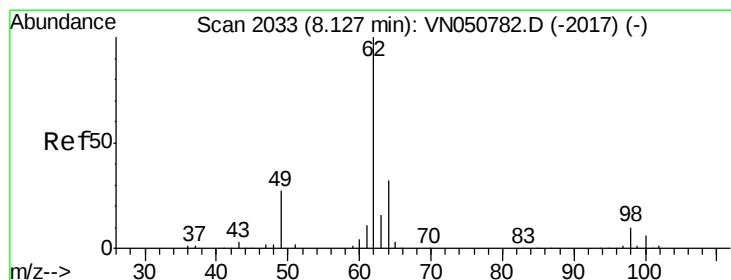
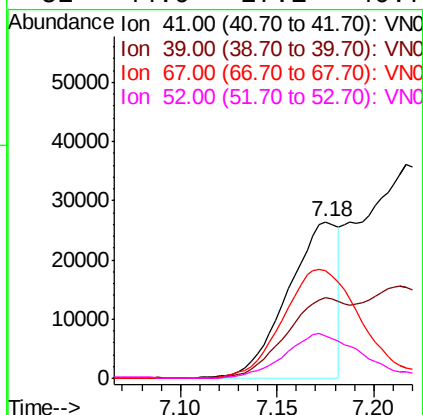
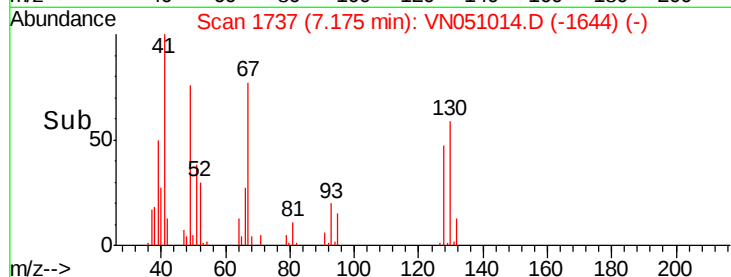
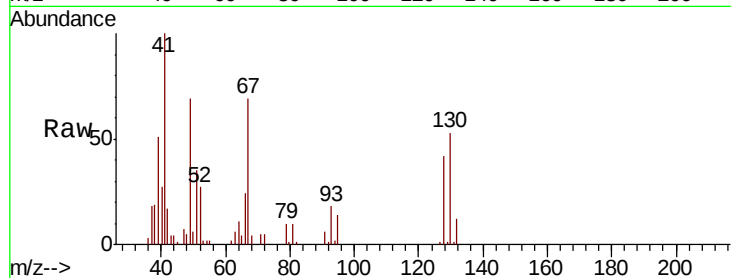
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

Tot Ion	Ratio	Lower	Upper
41	100		
39	62.9	45.4	68.0
67	109.5	70.6	106.0#
52	44.9	27.1	40.7#

Manual Integrations
APPROVED

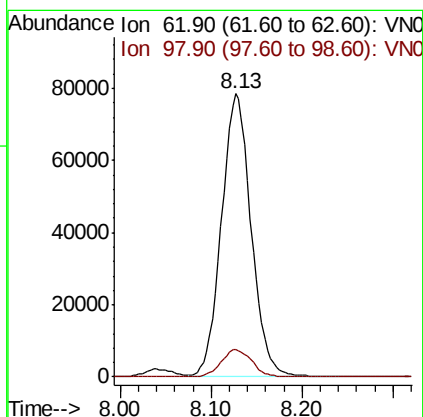
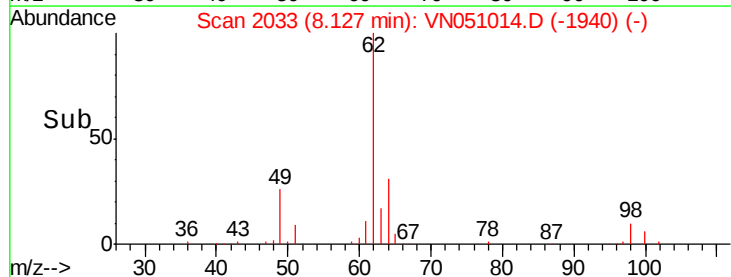
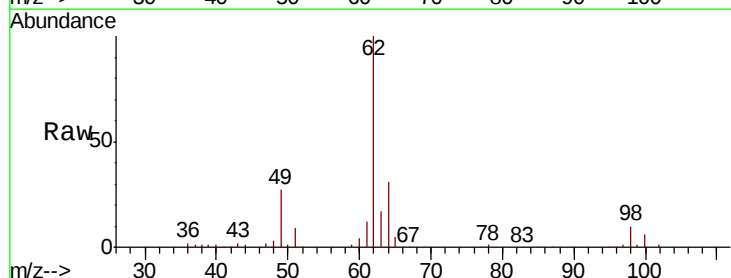
MMDadoda
9/5/2018 12:00:33 PM

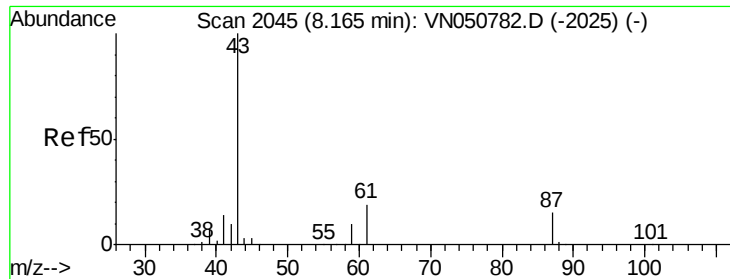
9/5/2018 12:00:33 PM



#42
1,2-Dichloroethane
Concen: 19.24 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. 0.00 min
Lab File: VN051014.D
Acq: 4 Sep 2018 13:02

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.9	0.0	19.6





#43

Isopropyl Acetate

Concen: 19.53 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN051014.D

Acq: 4 Sep 2018 13:02

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBSD01

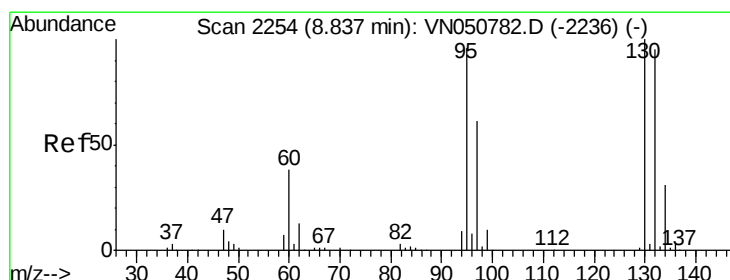
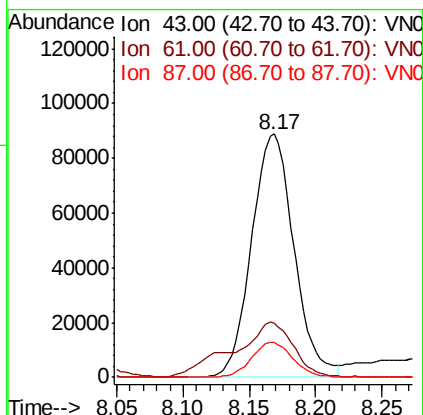
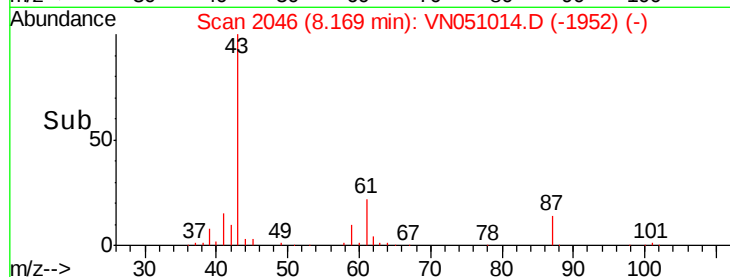
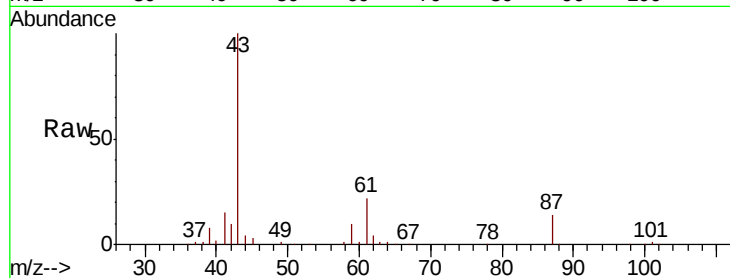
Tot Ion:	43	Resp:	197076
Ion	Ratio	Lower	Upper
43	100		
61	21.6	17.5	26.3
87	14.2	11.3	16.9

Manual Integrations
APPROVED

MMDadoda

9/5/2018 12:00:33 PM

9/5/2018 12:00:33 PM



#44

Trichloroethene

Concen: 18.92 ug/l

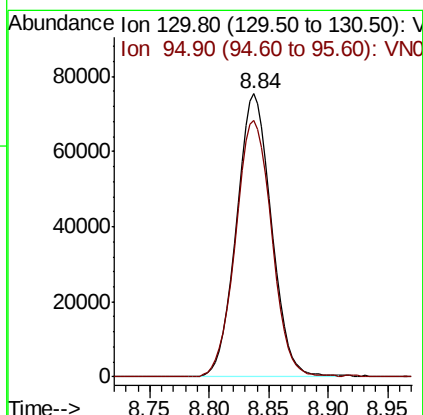
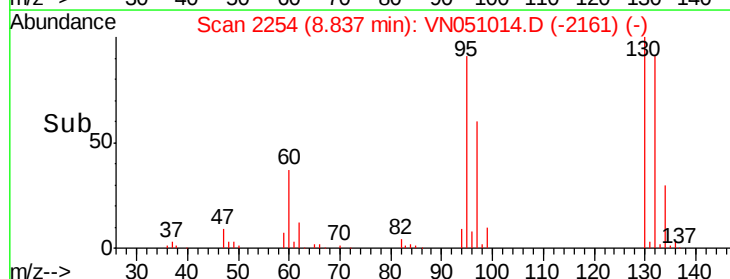
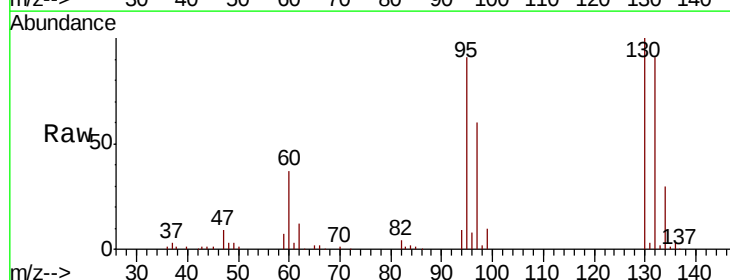
RT: 8.84 min Scan# 2254

Delta R.T. 0.00 min

Lab File: VN051014.D

Acq: 4 Sep 2018 13:02

Tgt Ion:	130	Resp:	153725
Ion	Ratio	Lower	Upper
130	100		
95	90.7	0.0	193.0





#45
 1,2-Dichloropropane
 Concen: 18.84 ug/l
 RT: 9.12 min Scan# 2342
 Delta R.T. 0.00 min
 Lab File: VN051014.D
 Acq: 4 Sep 2018 13:02

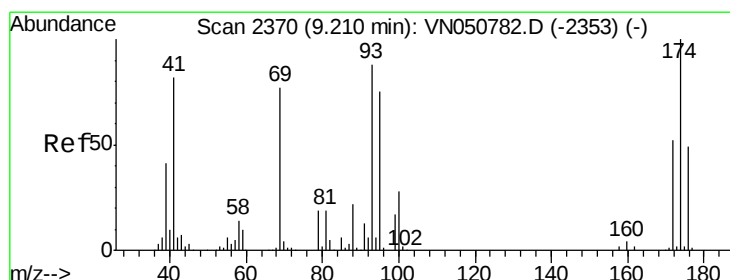
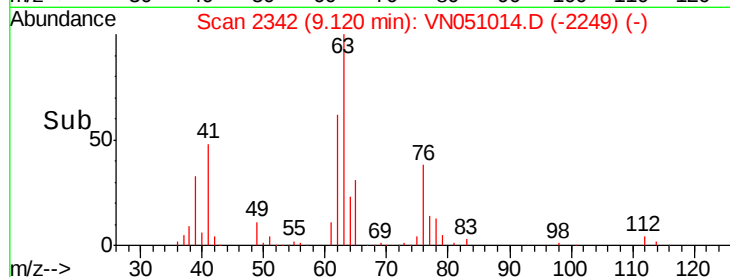
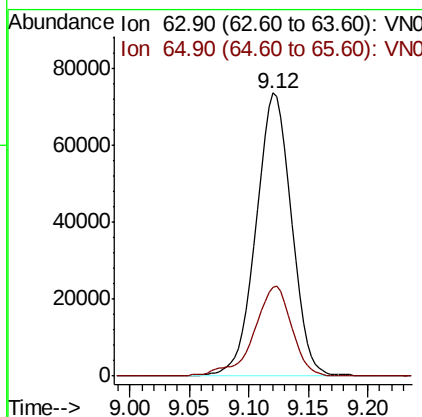
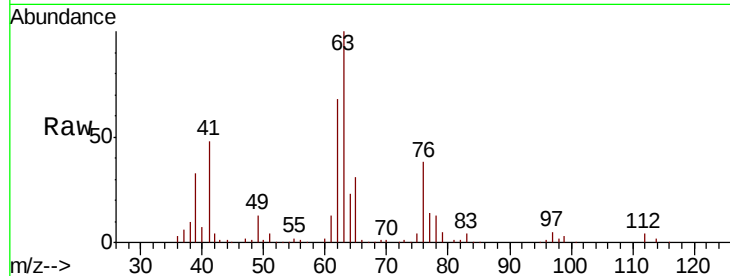
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0904WBSD01

Tot Ion: 63 Resp: 152516
 Ion Ratio Lower Upper
 63 100
 65 31.5 25.0 37.6

Manual Integrations
 APPROVED

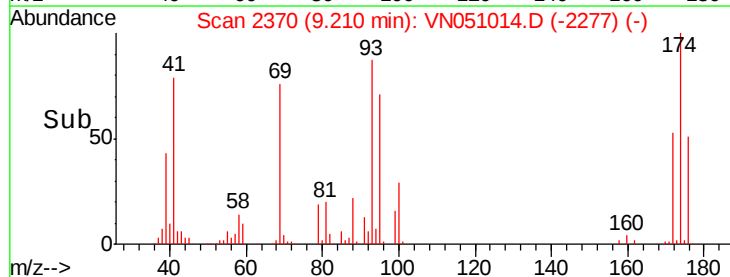
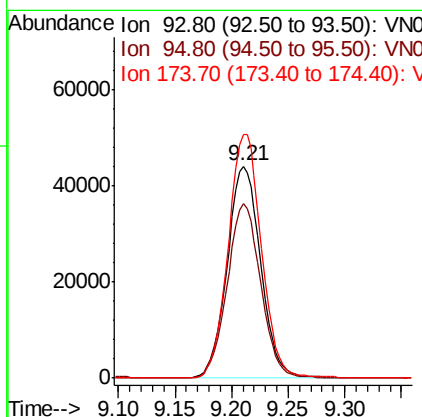
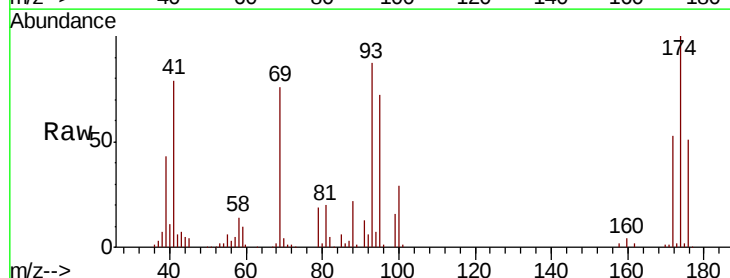
MMDadoda
 9/5/2018 12:00:33 PM

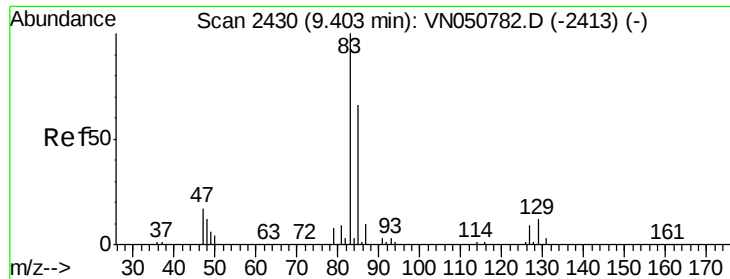
9/5/2018 12:00:33 PM



#46
 Dibromomethane
 Concen: 19.10 ug/l
 RT: 9.21 min Scan# 2370
 Delta R.T. 0.00 min
 Lab File: VN051014.D
 Acq: 4 Sep 2018 13:02

Tgt Ion: 93 Resp: 90867
 Ion Ratio Lower Upper
 93 100
 95 82.4 66.7 100.1
 174 114.6 89.8 134.6





#47

Bromodichloromethane

Concen: 19.19 ug/l

RT: 9.41 min Scan# 2431

Delta R.T. 0.00 min

Lab File: VN051014.D

Acq: 4 Sep 2018 13:02

Instrument :

MSVOA_N

ClientSampleId :

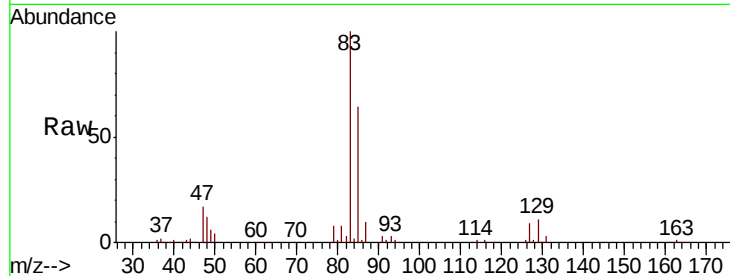
VN0904WBSD01

Tot Ion:	83	Resp:	191178
Ion Ratio	Lower	Upper	
83	100		
85	64.5	52.6	78.8
127	9.4	7.2	10.8

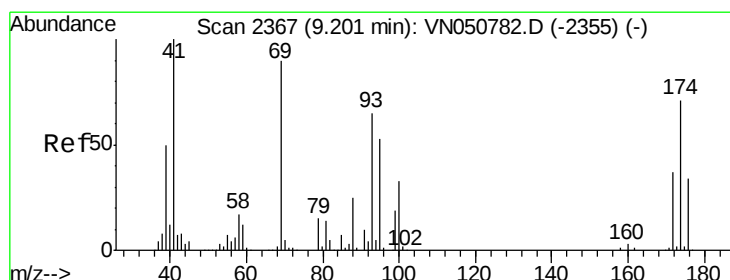
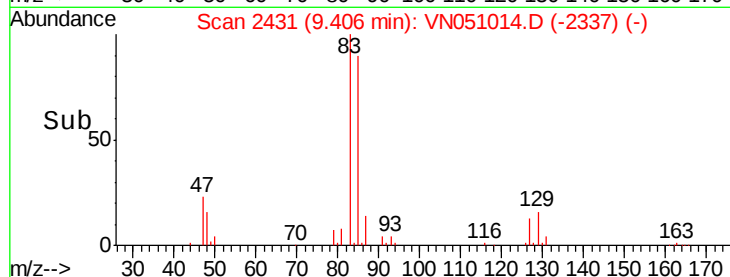
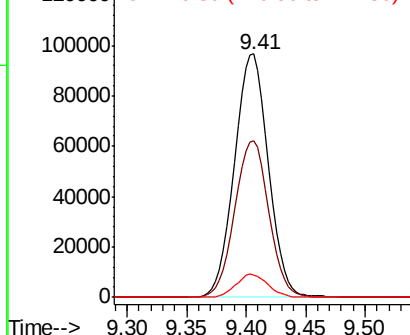
Manual Integrations
APPROVED

MMDadoda
9/5/2018 12:00:33 PM

9/5/2018 12:00:33 PM



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



#48

Methyl methacrylate

Concen: 18.14 ug/l

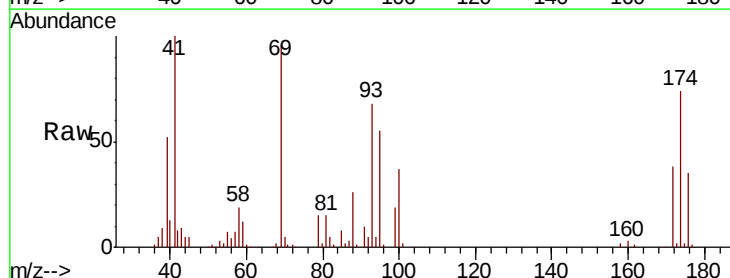
RT: 9.20 min Scan# 2367

Delta R.T. 0.00 min

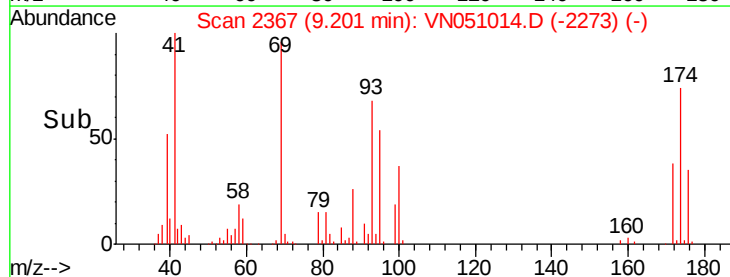
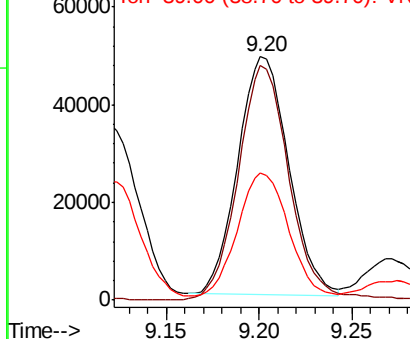
Lab File: VN051014.D

Acq: 4 Sep 2018 13:02

Tgt Ion:	41	Resp:	93289
Ion Ratio	Lower	Upper	
41	100		
69	99.4	74.7	112.1
39	54.5	42.2	63.2



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





#49
1,4-Dioxane
Concen: 392.98 ug/l
RT: 9.20 min Scan# 2367
Delta R.T. 0.00 min
Lab File: VN051014.D
Acq: 4 Sep 2018 13:02

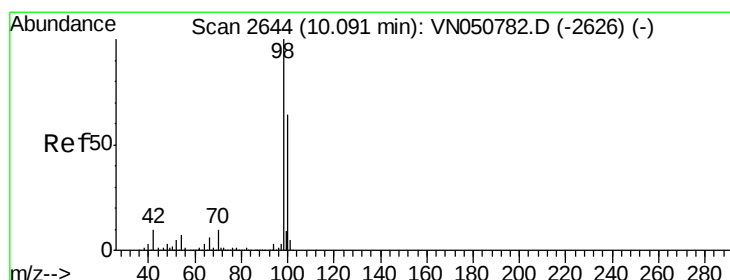
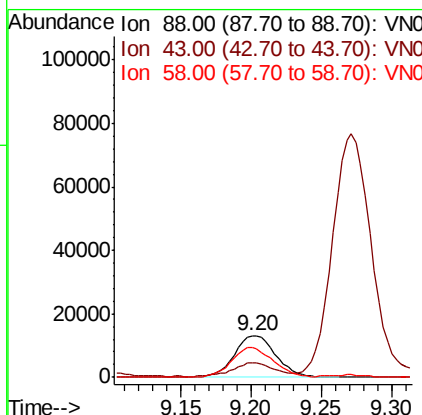
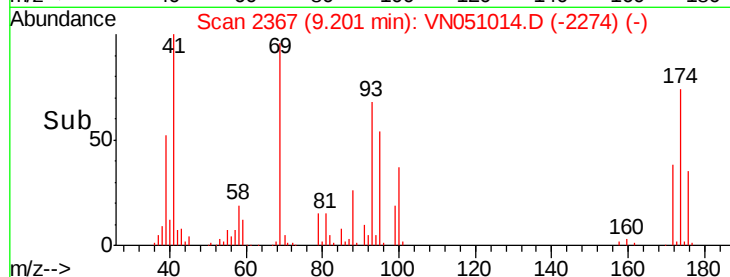
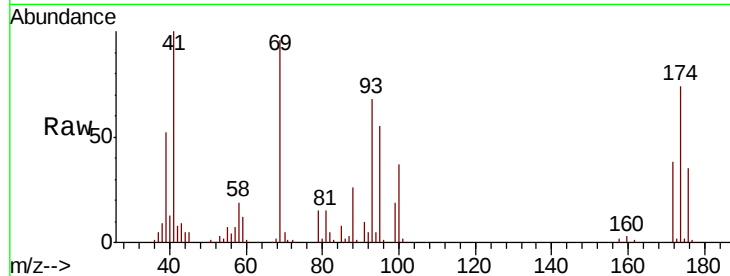
Instrument :
MSVOA_N
ClientSampled :
VN0904WBSD01

Tot Ion	88	Resp	27544
Ion Ratio	Lower	Upper	
88	100		
43	31.3	25.9	38.9
58	71.2	55.0	82.4

Manual Integrations
APPROVED

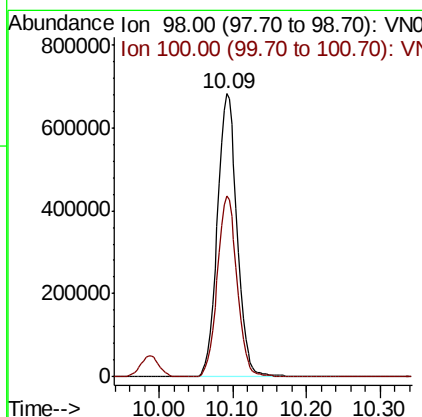
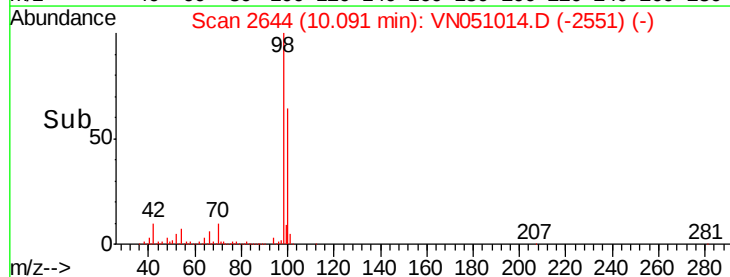
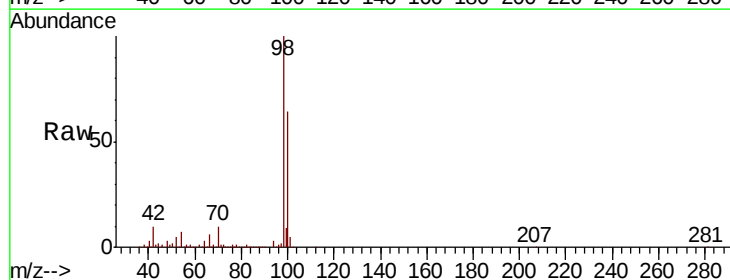
MMDadoda
9/5/2018 12:00:33 PM

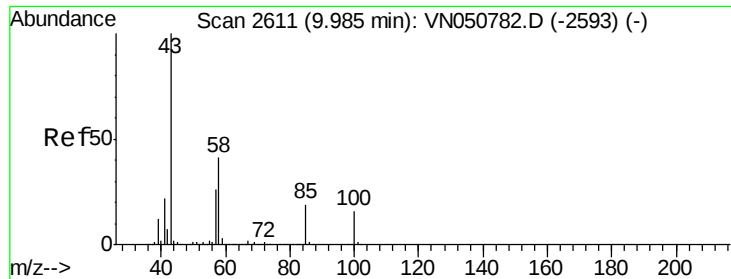
9/5/2018 12:00:33 PM



#50
Toluene-d8
Concen: 48.91 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN051014.D
Acq: 4 Sep 2018 13:02

Tgt Ion	98	Resp	1259138
Ion Ratio	Lower	Upper	
98	100		
100	64.3	51.5	77.3





#51

4-Methyl-2-Pentanone

Concen: 95.00 ug/l

RT: 9.99 min Scan# 2611

Delta R.T. 0.00 min

Lab File: VN051014.D

Acq: 4 Sep 2018 13:02

Instrument :

MSVOA_N

ClientSampled :

VN0904WBSD01

Tot Ion: 43 Resp: 571936

Ion Ratio Lower Upper

43 100

58 40.8 32.4 48.6

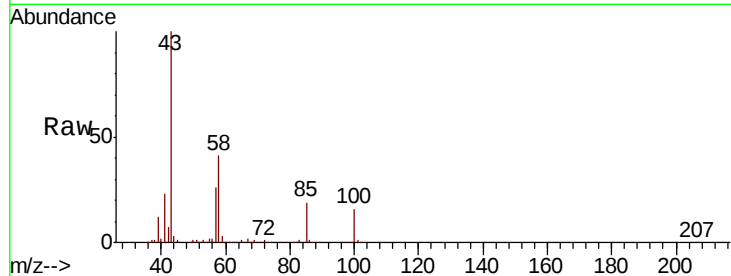
Manual Integrations

APPROVED

MMDadoda

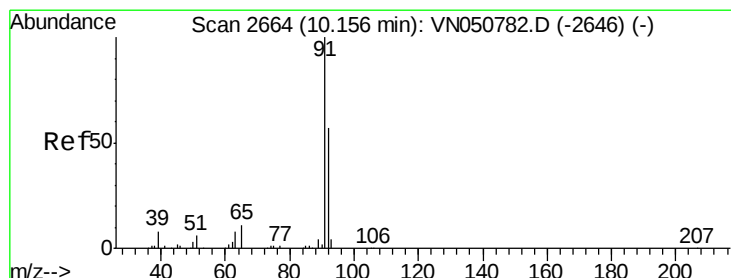
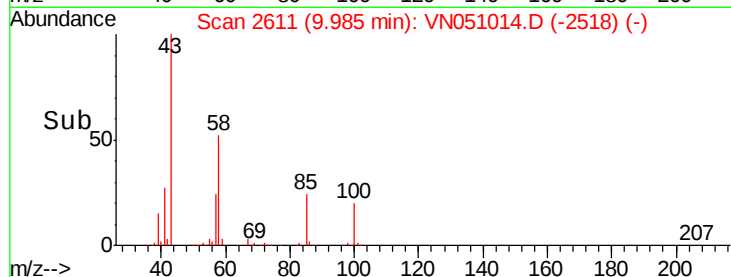
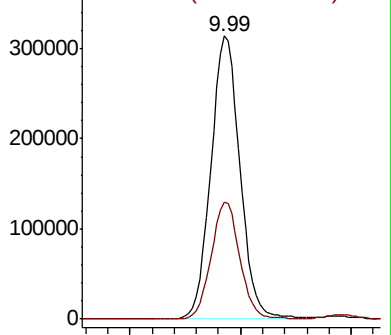
9/5/2018 12:00:33 PM

9/5/2018 12:00:33 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 19.39 ug/l

RT: 10.16 min Scan# 2664

Delta R.T. 0.00 min

Lab File: VN051014.D

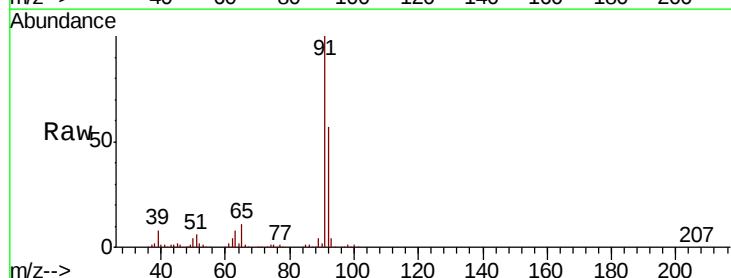
Acq: 4 Sep 2018 13:02

Tgt Ion: 92 Resp: 353808

Ion Ratio Lower Upper

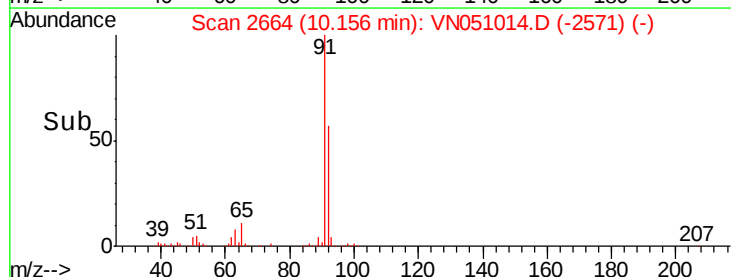
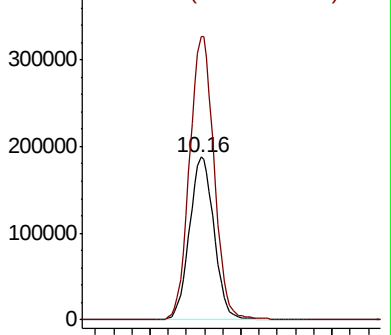
92 100

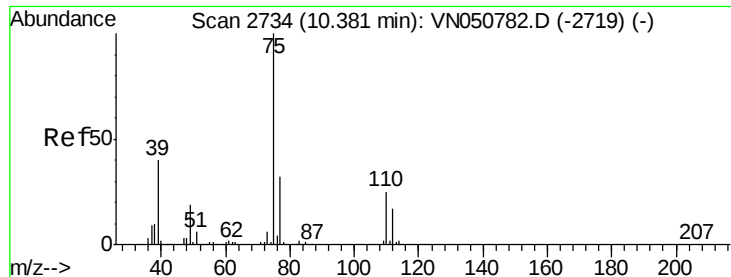
91 173.9 140.6 211.0



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





#53
t-1,3-Dichloropropene
Concen: 18.05 ug/l
RT: 10.38 min Scan# 2735
Delta R.T. 0.00 min
Lab File: VN051014.D
Acq: 4 Sep 2018 13:02

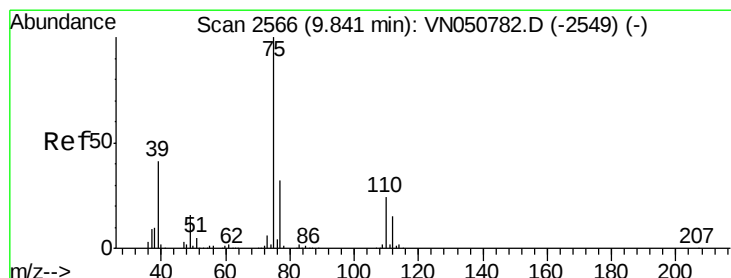
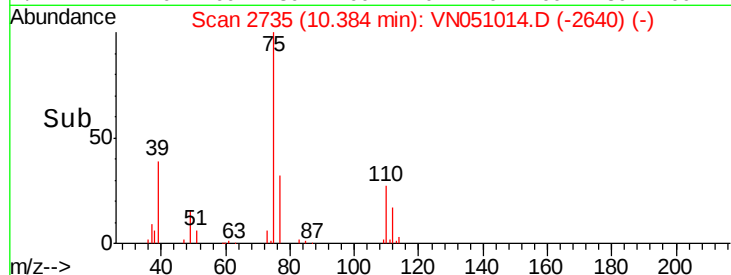
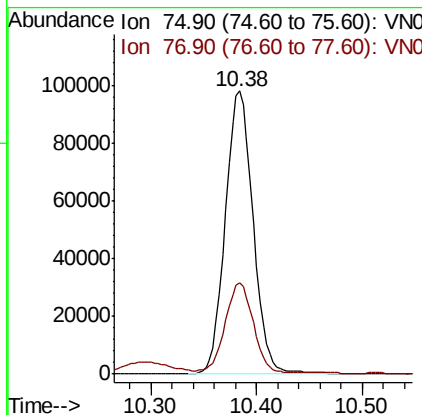
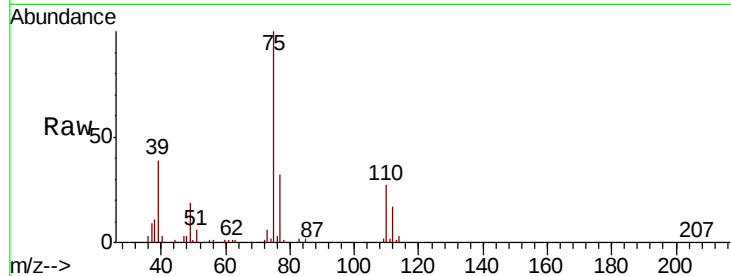
Instrument :
MSVOA_N
ClientSampled :
VN0904WBSD01

Tot Ion: 75 Resp: 178950
Ion Ratio Lower Upper
75 100
77 32.0 25.7 38.5

Manual Integrations
APPROVED

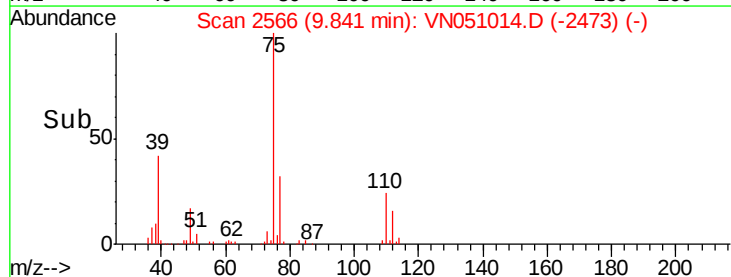
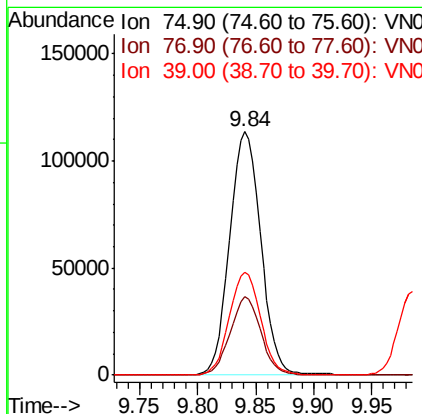
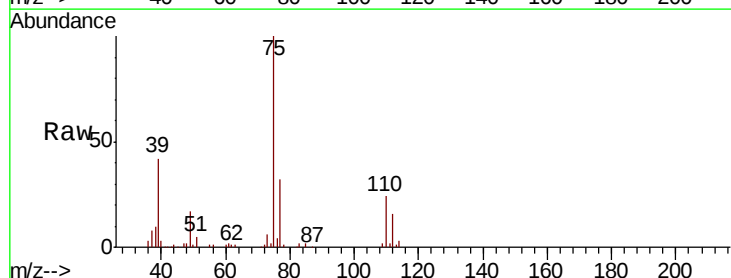
MMDadoda
9/5/2018 12:00:33 PM

9/5/2018 12:00:33 PM



#54
cis-1,3-Dichloropropene
Concen: 18.63 ug/l
RT: 9.84 min Scan# 2566
Delta R.T. 0.00 min
Lab File: VN051014.D
Acq: 4 Sep 2018 13:02

Tgt Ion: 75 Resp: 211517
Ion Ratio Lower Upper
75 100
77 32.1 25.4 38.2
39 42.0 33.0 49.4





#55
 1,1,2-Trichloroethane
 Concen: 19.61 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. 0.00 min
 Lab File: VN051014.D
 Acq: 4 Sep 2018 13:02

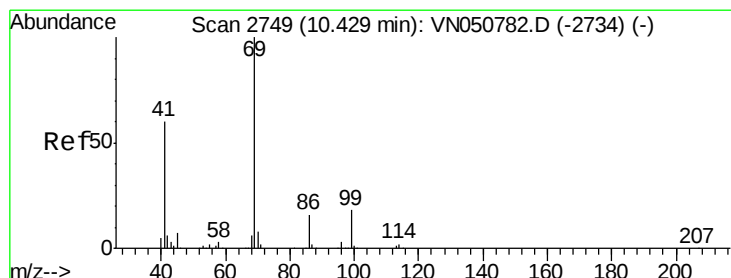
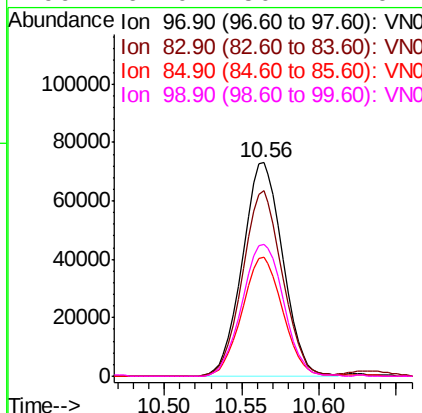
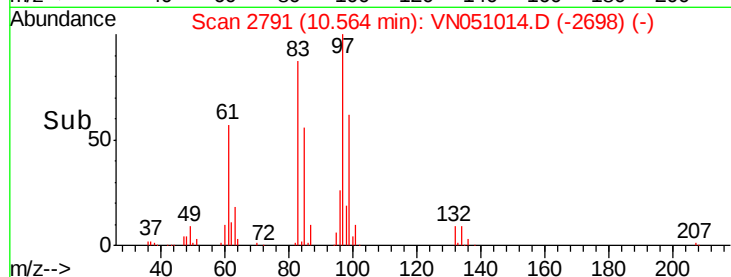
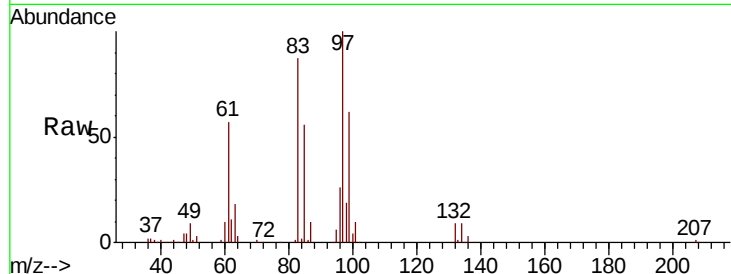
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0904WBSD01

Tot Ion:	97	Resp:	132799
Ion	Ratio	Lower	Upper
97	100		
83	87.0	69.7	104.5
85	55.9	44.5	66.7
99	62.0	50.7	76.1

Manual Integrations
 APPROVED

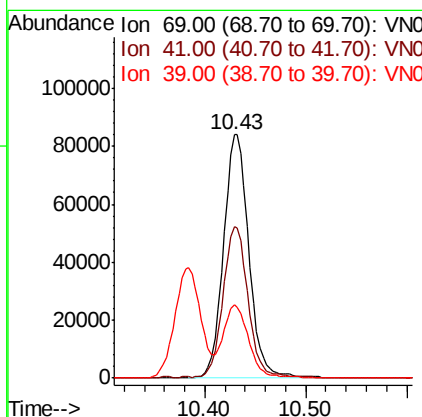
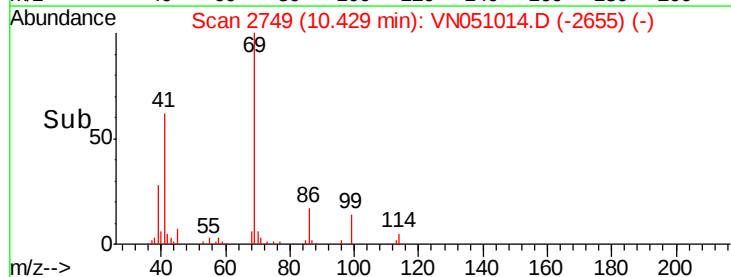
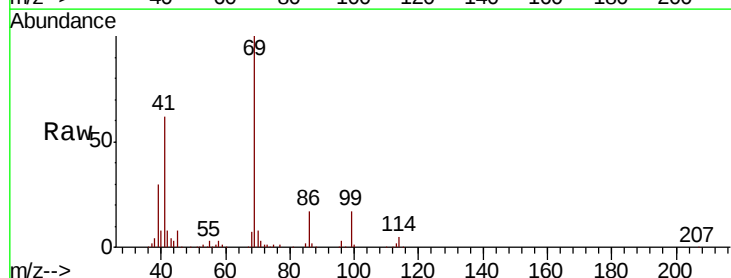
MMDadoda
 9/5/2018 12:00:33 PM

9/5/2018 12:00:33 PM



#56
 Ethyl methacrylate
 Concen: 18.31 ug/l
 RT: 10.43 min Scan# 2749
 Delta R.T. 0.00 min
 Lab File: VN051014.D
 Acq: 4 Sep 2018 13:02

Tgt Ion:	69	Resp:	147529
Ion	Ratio	Lower	Upper
69	100		
41	60.6	48.3	72.5
39	29.8	24.0	36.0





#57

1,3-Dichloropropane

Concen: 19.33 ug/l

RT: 10.71 min Scan# 2836

Delta R.T. 0.00 min

Lab File: VN051014.D

Acq: 4 Sep 2018 13:02

Instrument :

MSVOA_N

ClientSampled :

VN0904WBSD01

Tot Ion: 76 Resp: 216073

Ion Ratio Lower Upper

76 100

78 31.8 25.5 38.3

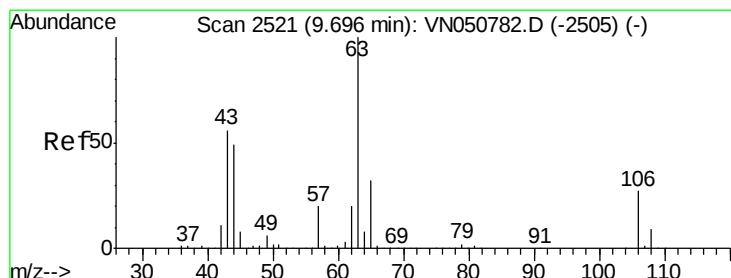
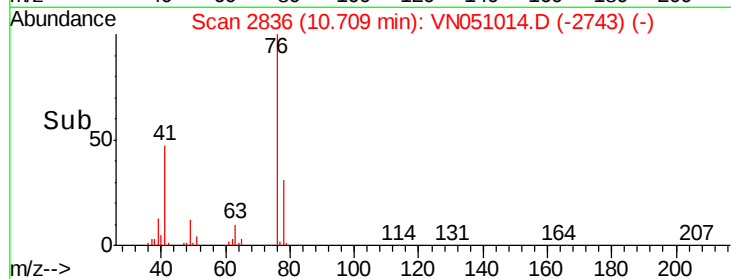
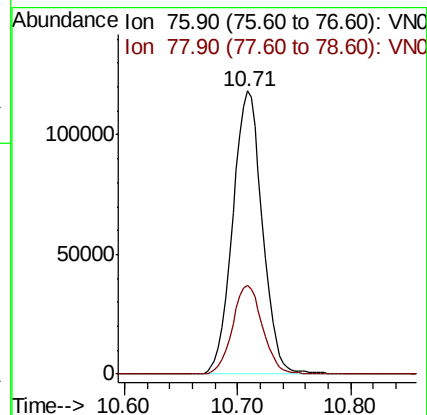
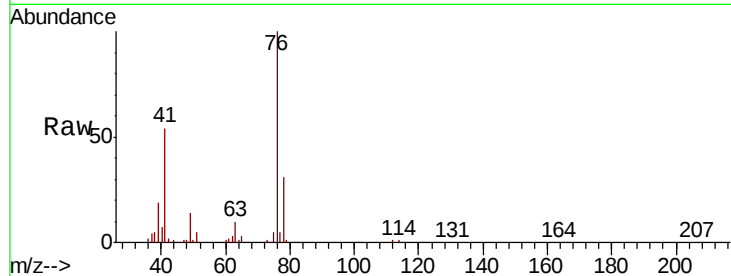
Manual Integrations

APPROVED

MMDadoda

9/5/2018 12:00:33 PM

9/5/2018 12:00:33 PM



#58

2-Chloroethyl Vinyl ether

Concen: 86.87 ug/l

RT: 9.70 min Scan# 2521

Delta R.T. 0.00 min

Lab File: VN051014.D

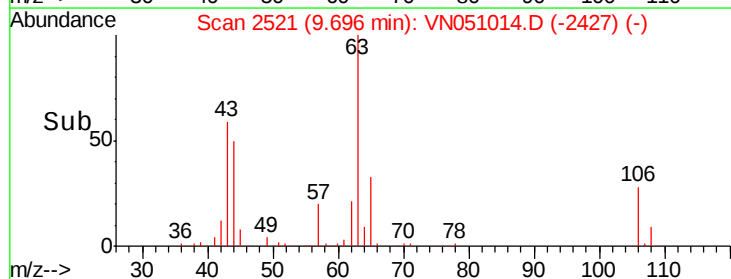
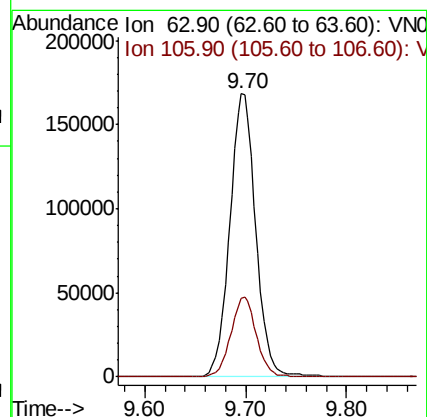
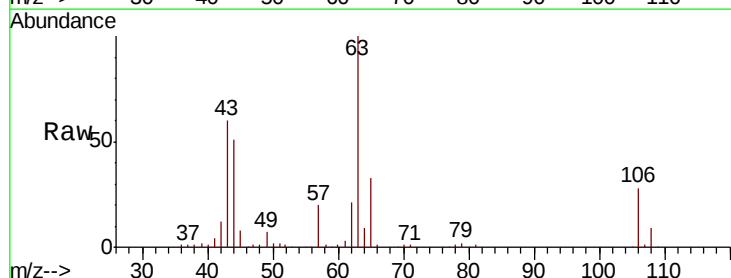
Acq: 4 Sep 2018 13:02

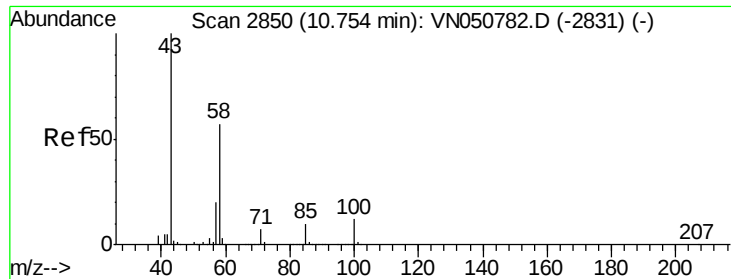
Tgt Ion: 63 Resp: 301702

Ion Ratio Lower Upper

63 100

106 27.9 21.9 32.9





#59
2-Hexanone
Concen: 88.81 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. 0.00 min
Lab File: VN051014.D
Acq: 4 Sep 2018 13:02

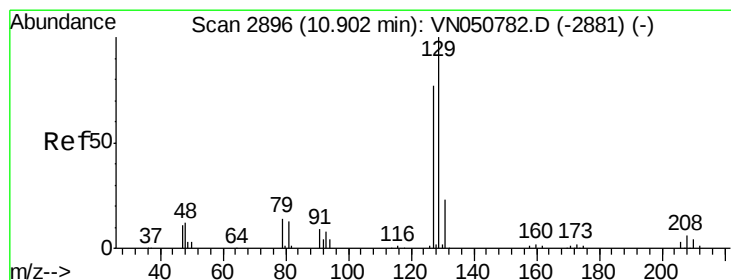
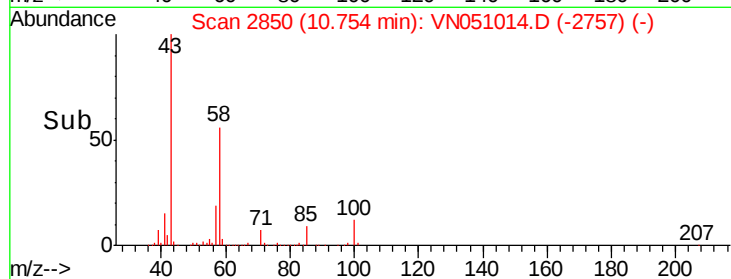
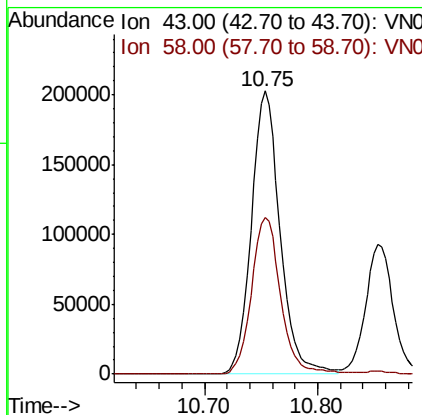
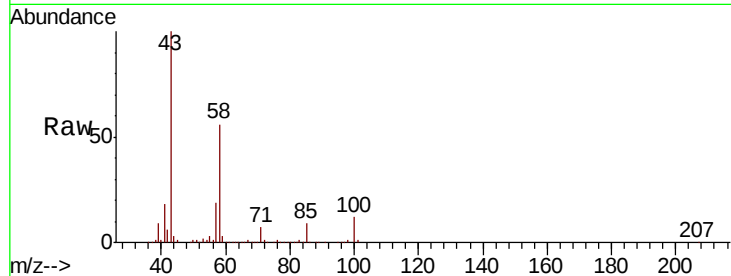
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

Tot Ion: 43 Resp: 355942
Ion Ratio Lower Upper
43 100
58 56.5 28.3 85.0

Manual Integrations
APPROVED

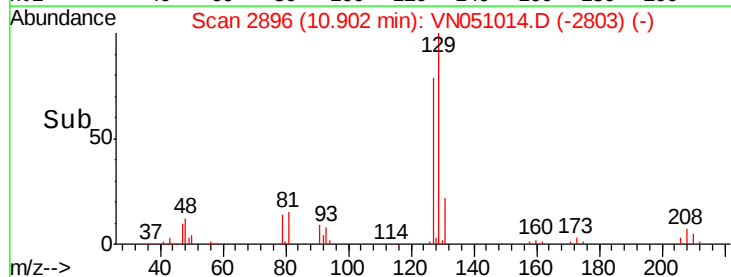
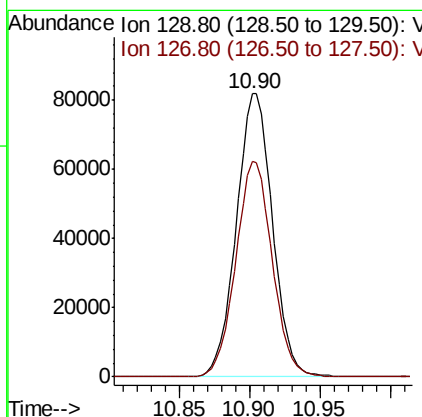
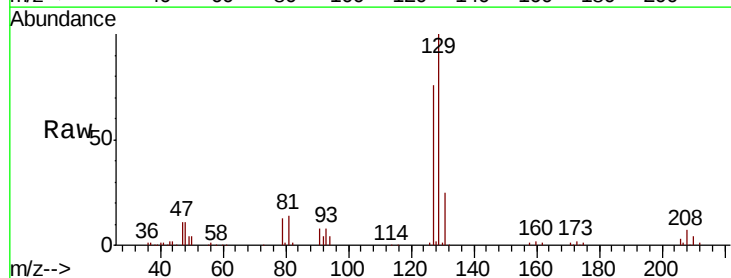
MMDadoda
9/5/2018 12:00:33 PM

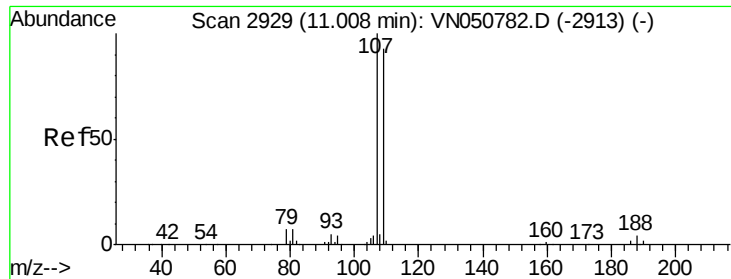
9/5/2018 12:00:33 PM



#60
Dibromochloromethane
Concen: 19.40 ug/l
RT: 10.90 min Scan# 2896
Delta R.T. 0.00 min
Lab File: VN051014.D
Acq: 4 Sep 2018 13:02

Tgt Ion: 129 Resp: 147069
Ion Ratio Lower Upper
129 100
127 76.8 38.3 114.9





#61

1,2-Dibromoethane

Concen: 18.97 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. 0.00 min

Lab File: VN051014.D

Acq: 4 Sep 2018 13:02

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBSD01

Tot Ion: 107 Resp: 124229

Ion Ratio Lower Upper

107 100

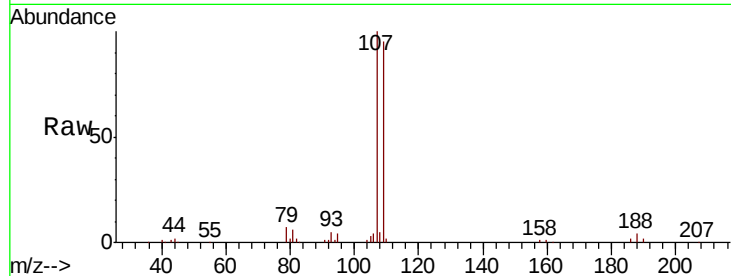
109 95.6 75.4 113.2

Manual Integrations
APPROVED

MMDadoda

9/5/2018 12:00:33 PM

9/5/2018 12:00:33 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

80000

60000

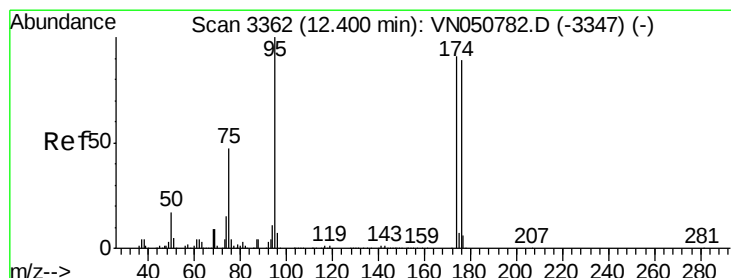
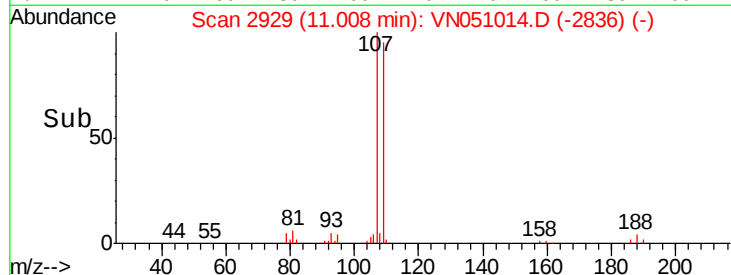
40000

20000

0

11.01

Time--> 10.90 11.00 11.10



#62

4-Bromofluorobenzene

Concen: 46.12 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN051014.D

Acq: 4 Sep 2018 13:02

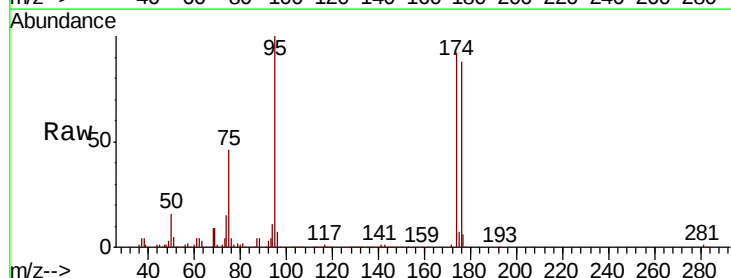
Tgt Ion: 95 Resp: 394582

Ion Ratio Lower Upper

95 100

174 91.4 0.0 183.0

176 87.8 0.0 178.8



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

300000

250000

200000

150000

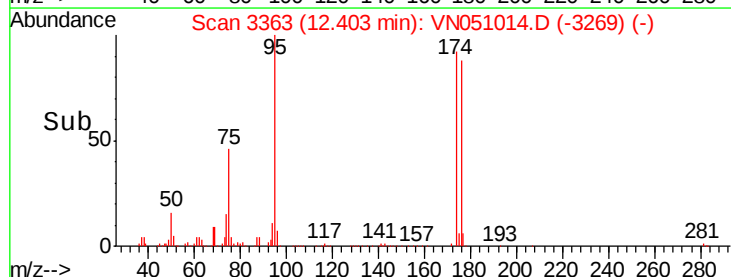
100000

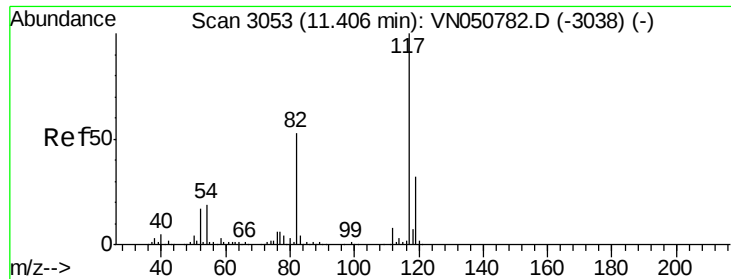
50000

0

12.40

Time--> 12.35 12.40 12.45





#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN051014.D
Acq: 4 Sep 2018 13:02

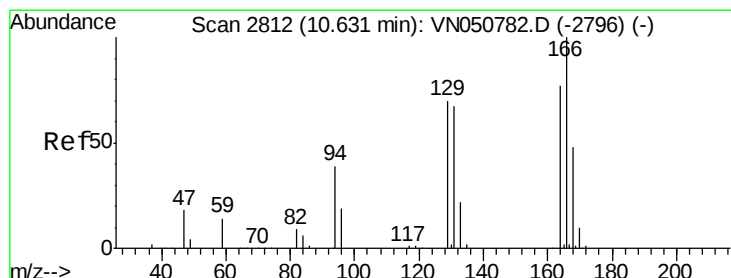
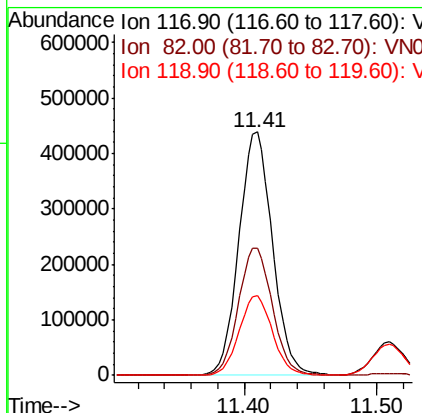
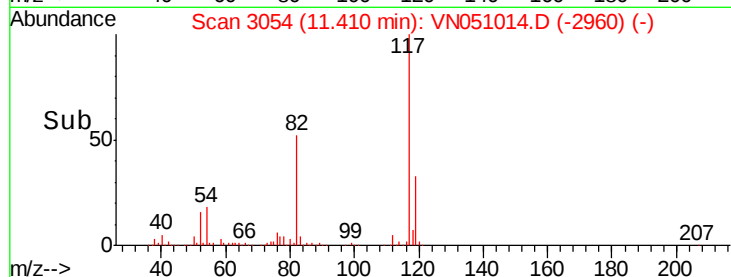
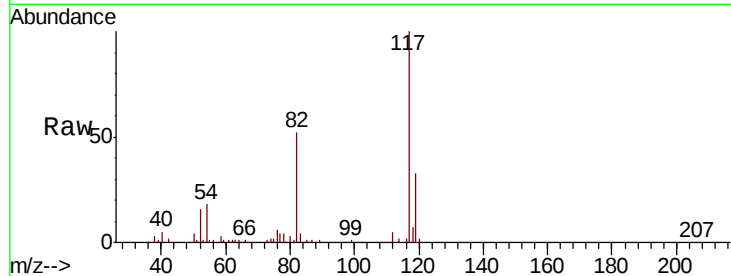
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	772676		
82	52.0		42.6	64.0
119	32.6		25.8	38.6

Manual Integrations
APPROVED

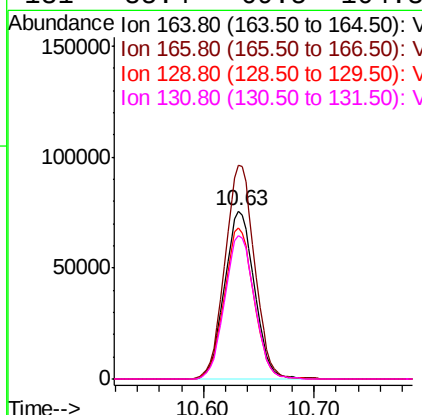
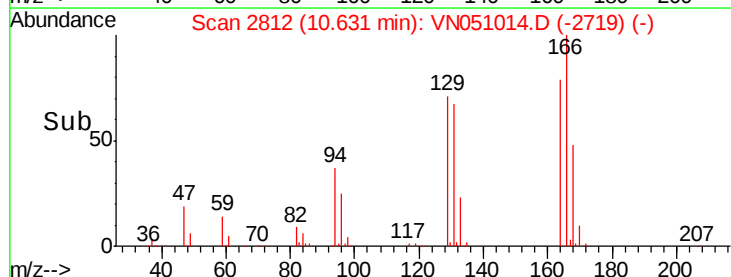
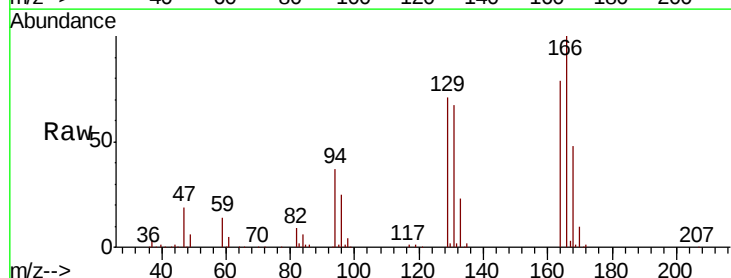
MMDadoda
9/5/2018 12:00:33 PM

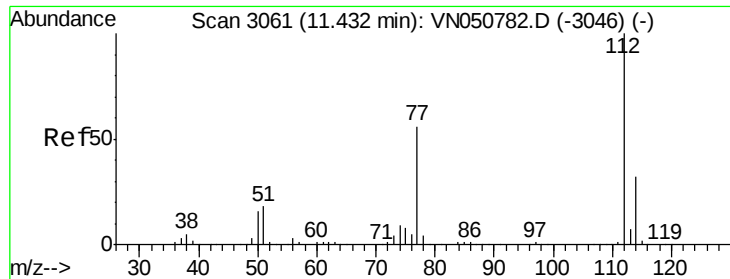
9/5/2018 12:00:33 PM



#64
Tetrachloroethene
Concen: 19.32 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. 0.00 min
Lab File: VN051014.D
Acq: 4 Sep 2018 13:02

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	141823		
166	127.2		103.5	155.3
129	90.0		72.7	109.1
131	85.4		69.5	104.3





#65
Chlorobenzene
Concen: 18.87 ug/l
RT: 11.44 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN051014.D
Acq: 4 Sep 2018 13:02

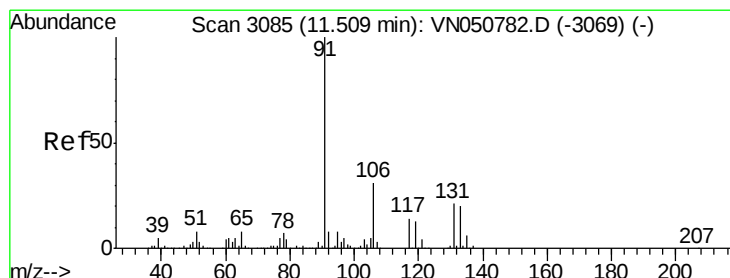
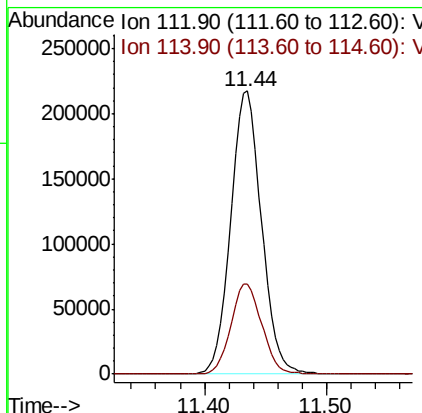
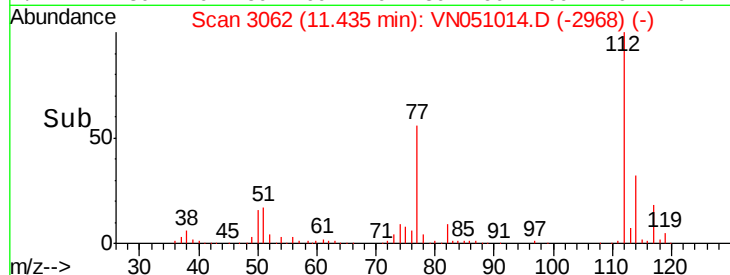
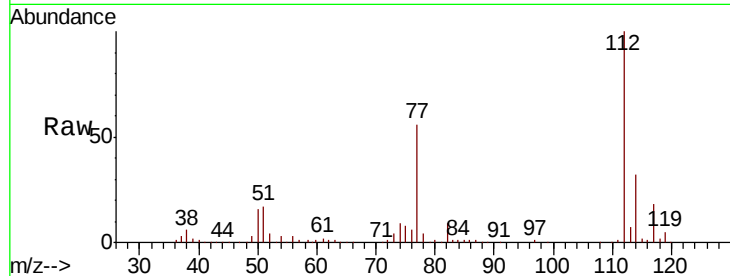
Instrument :
MSVOA_N
ClientSampled :
VN0904WBSD01

Tot Ion:112 Resp: 381175
Ion Ratio Lower Upper
112 100
114 31.7 25.6 38.4

Manual Integrations
APPROVED

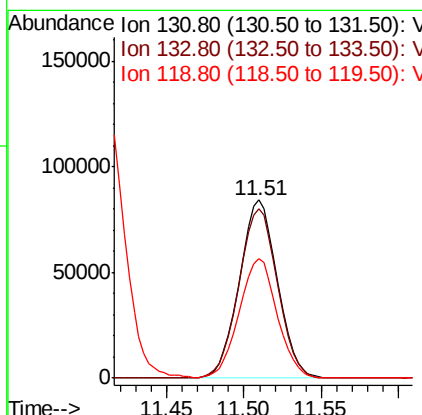
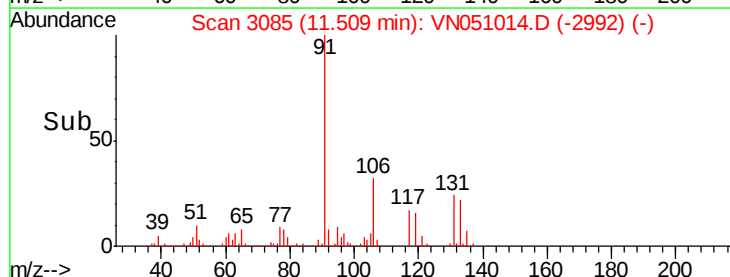
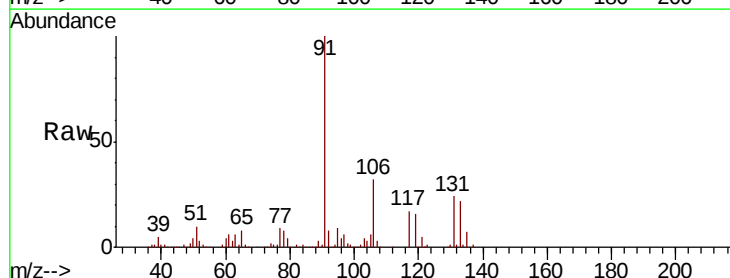
MMDadoda
9/5/2018 12:00:33 PM

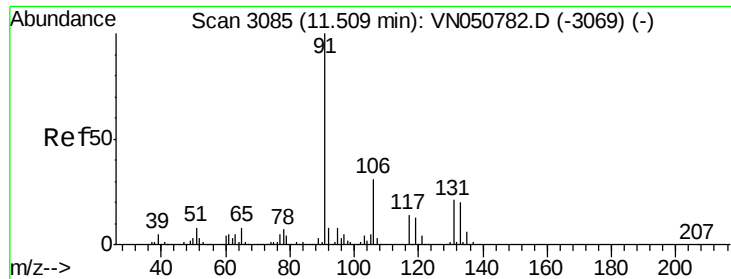
9/5/2018 12:00:33 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.56 ug/l
RT: 11.51 min Scan# 3085
Delta R.T. 0.00 min
Lab File: VN051014.D
Acq: 4 Sep 2018 13:02

Tgt Ion:131 Resp: 144571
Ion Ratio Lower Upper
131 100
133 96.4 47.4 142.3
119 66.7 32.8 98.4





#67

Ethyl Benzene

Concen: 18.70 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. 0.00 min

Lab File: VN051014.D

Acq: 4 Sep 2018 13:02

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBSD01

Tot Ion: 91 Resp: 613986

Ion Ratio Lower Upper

91 100

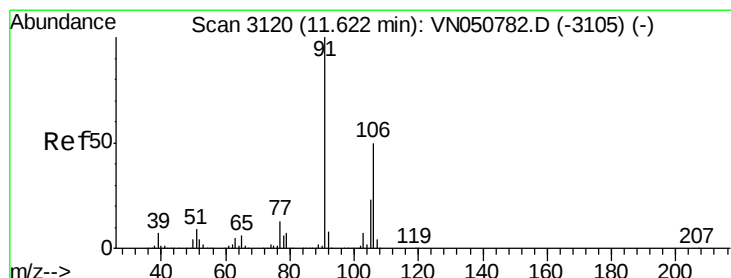
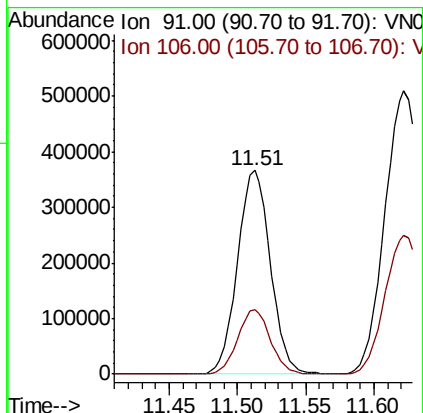
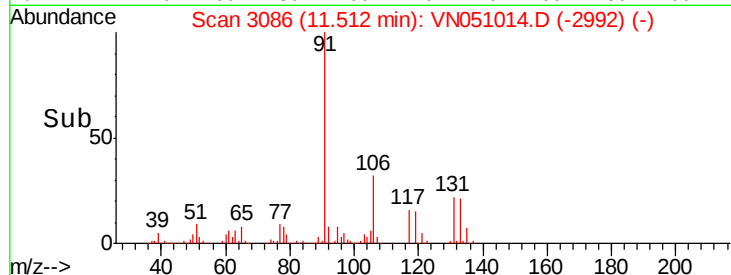
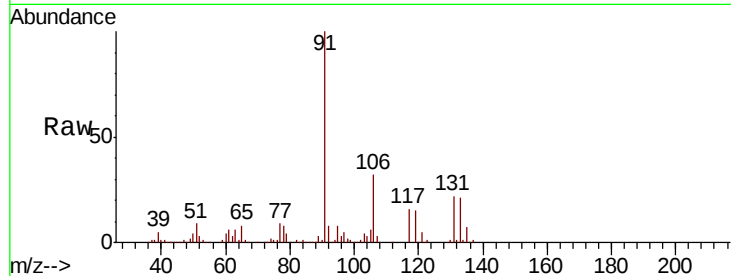
106 31.8 25.0 37.4

Manual Integrations
APPROVED

MMDadoda

9/5/2018 12:00:33 PM

9/5/2018 12:00:33 PM



#68

m/p-Xylenes

Concen: 38.85 ug/l

RT: 11.62 min Scan# 3120

Delta R.T. 0.00 min

Lab File: VN051014.D

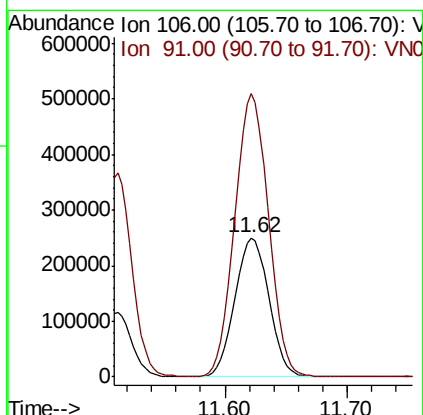
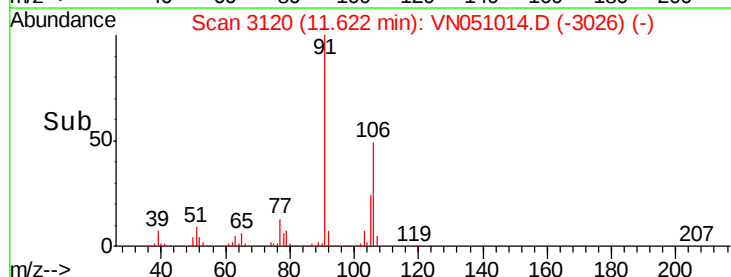
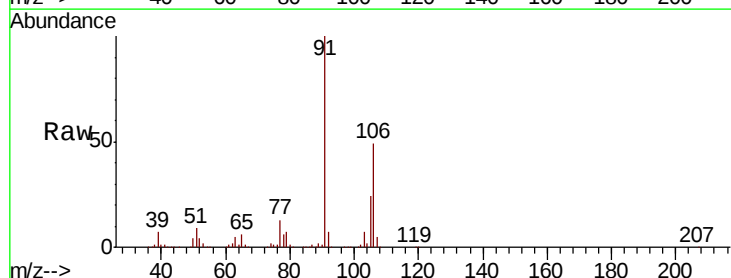
Acq: 4 Sep 2018 13:02

Tgt Ion: 106 Resp: 484182

Ion Ratio Lower Upper

106 100

91 201.5 161.0 241.6





#69
o-Xylene
Concen: 19.28 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. 0.00 min
Lab File: VN051014.D
Acq: 4 Sep 2018 13:02

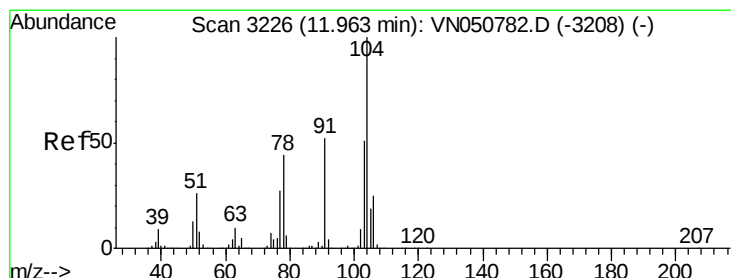
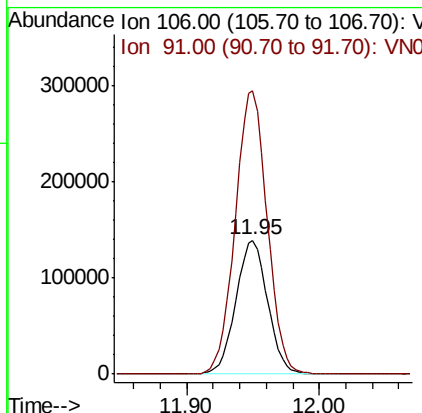
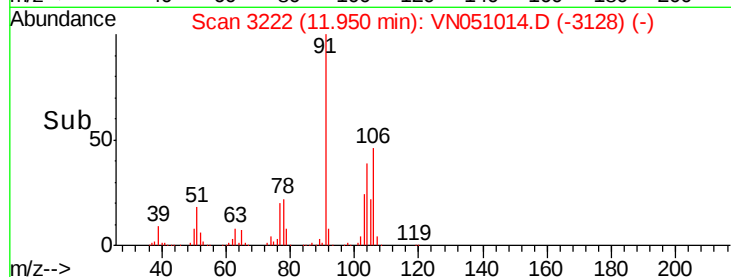
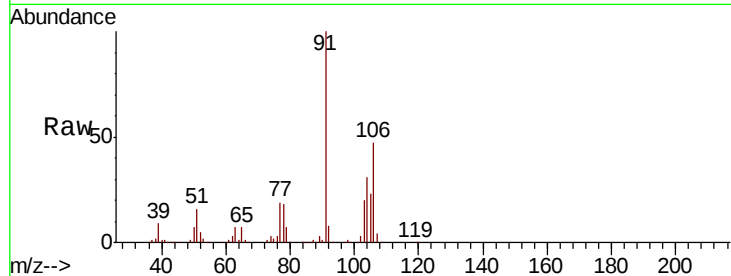
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	231059		
91	91	212.8	106.5	319.5	

Manual Integrations
APPROVED

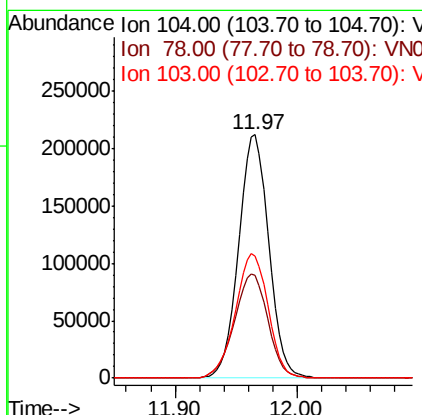
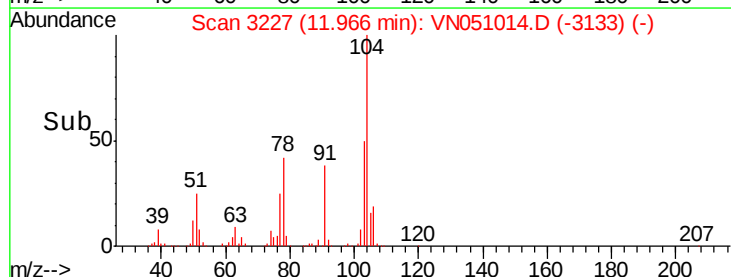
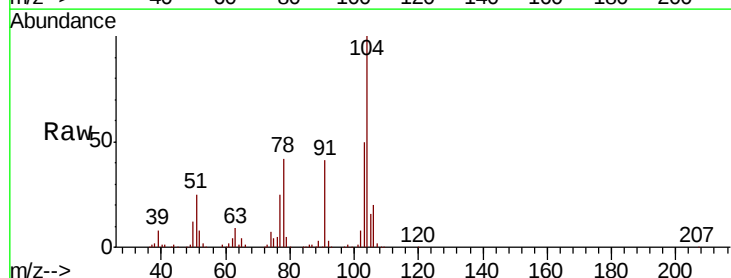
MMDadoda
9/5/2018 12:00:33 PM

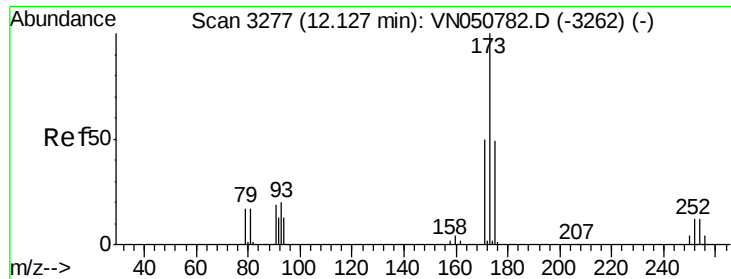
9/5/2018 12:00:33 PM



#70
Styrene
Concen: 17.99 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN051014.D
Acq: 4 Sep 2018 13:02

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	362232		
78	78	47.8	38.2	57.4	
103	103	55.8	44.4	66.6	





#71
Bromoform
Concen: 19.71 ug/l
RT: 12.13 min Scan# 3277
Delta R.T. 0.00 min
Lab File: VN051014.D
Acq: 4 Sep 2018 13:02

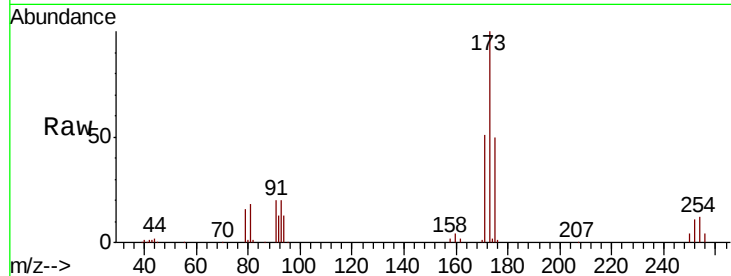
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.6	24.4	73.4
254	0.0	0.1	0.1

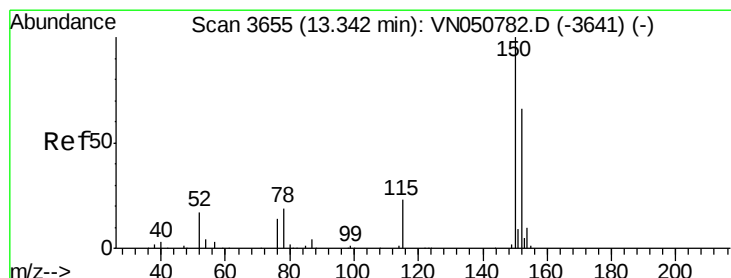
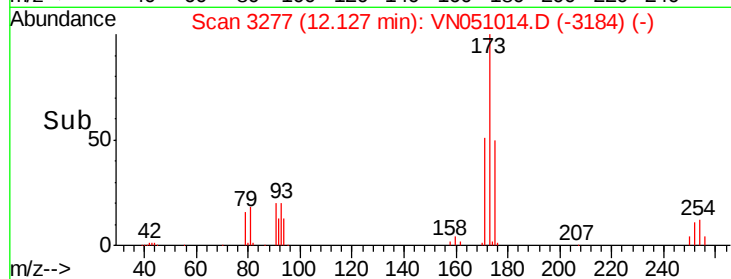
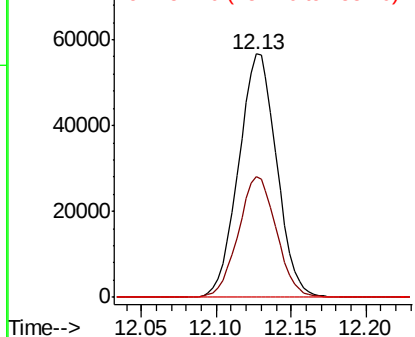
Manual Integrations
APPROVED

MMDadoda
9/5/2018 12:00:33 PM

9/5/2018 12:00:33 PM

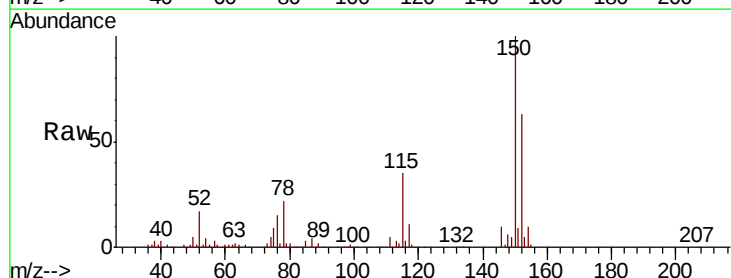


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

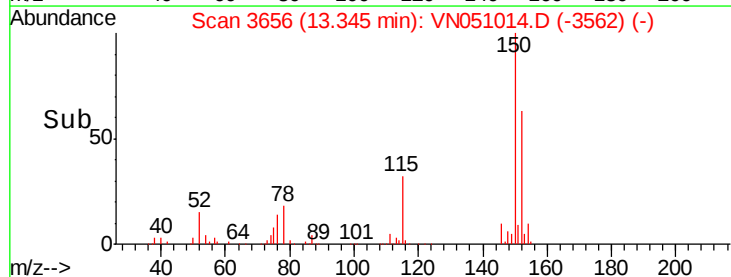
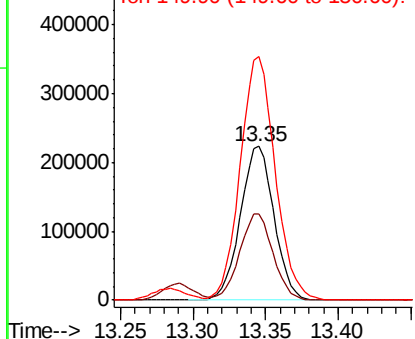


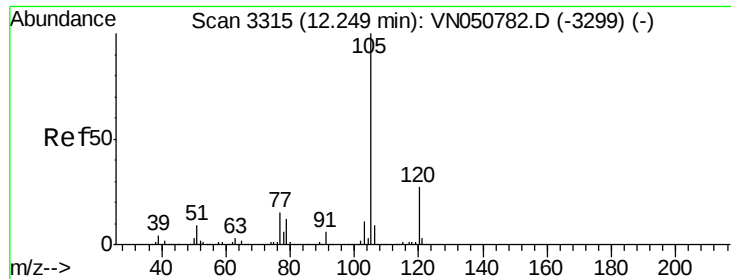
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN051014.D
Acq: 4 Sep 2018 13:02

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.6	27.8	83.4
150	164.4	0.0	351.4



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: 20.42 ug/l

RT: 12.25 min Scan# 3315

Delta R.T. 0.00 min

Lab File: VN051014.D

Acq: 4 Sep 2018 13:02

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBSD01

Tot Ion: 105 Resp: 609164

Ion Ratio Lower Upper

105 100

120 27.3 13.5 40.4

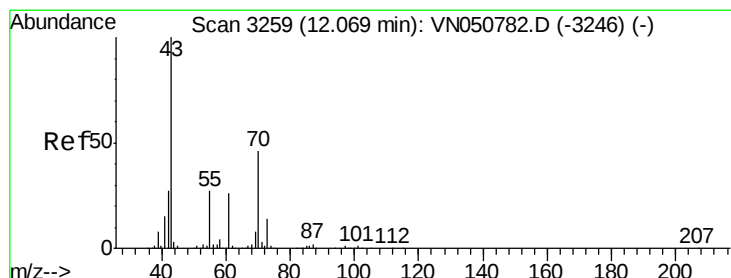
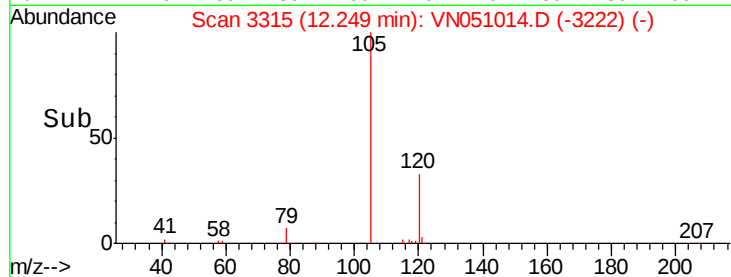
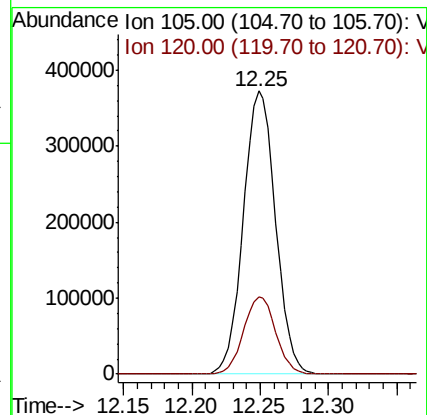
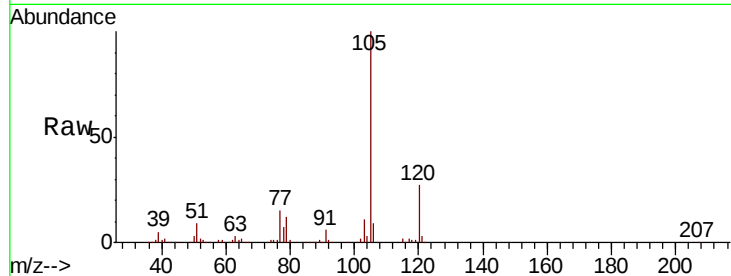
Manual Integrations

APPROVED

MMDadoda

9/5/2018 12:00:33 PM

9/5/2018 12:00:33 PM



#74

N-ethyl acetate

Concen: 18.79 ug/l

RT: 12.07 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN051014.D

Acq: 4 Sep 2018 13:02

Tgt Ion: 43 Resp: 140835

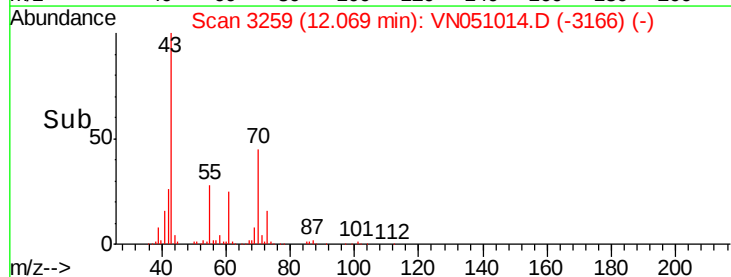
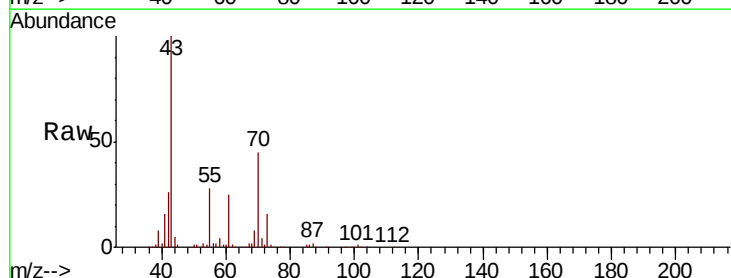
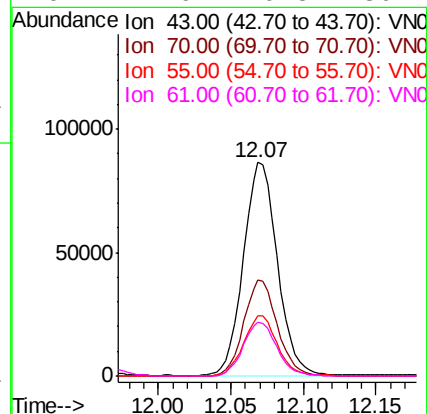
Ion Ratio Lower Upper

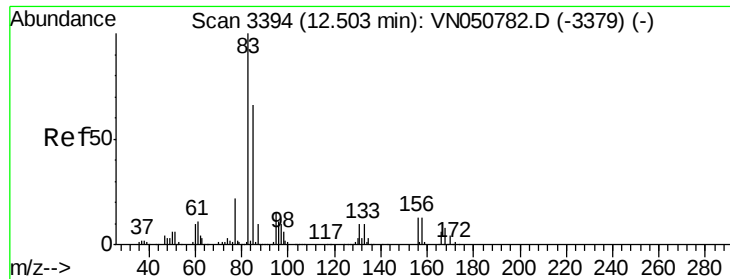
43 100

70 44.5 36.2 54.2

55 28.0 21.8 32.8

61 24.9 20.5 30.7





#75

1,1,2,2-Tetrachloroethane

Concen: 22.07 ug/l

RT: 12.50 min Scan# 3394

Delta R.T. 0.00 min

Lab File: VN051014.D

Acq: 4 Sep 2018 13:02

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBSD01

Tot Ion: 83 Resp: 163488

Ion Ratio Lower Upper

83 100

131 10.2 5.3 15.9

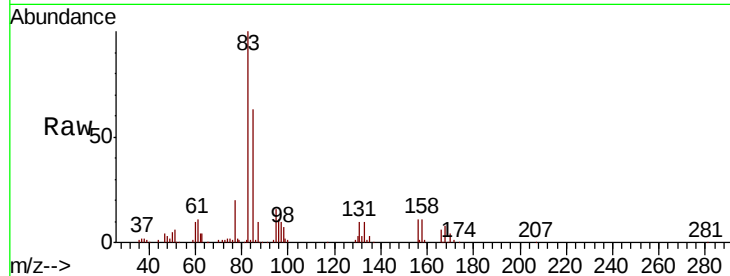
85 63.7 31.9 95.7

Manual Integrations
APPROVED

MMDadoda

9/5/2018 12:00:33 PM

9/5/2018 12:00:33 PM



Abundance Ion 82.90 (82.60 to 83.60): VN050782.D (-3379) (-)

Ion 130.80 (130.50 to 131.50): VN050782.D (-3379) (-)

Ion 84.90 (84.60 to 85.60): VN050782.D (-3379) (-)

12.50

100000

80000

60000

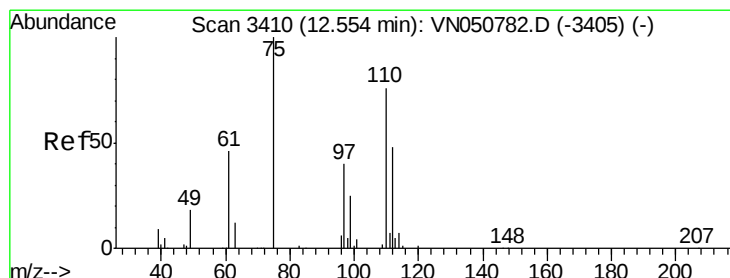
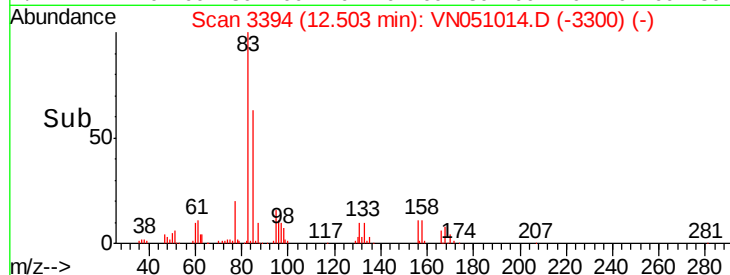
40000

20000

0

12.45 12.50 12.55

Time-->



#76

1,2,3-Trichloropropane

Concen: 20.62 ug/l m

RT: 12.55 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN051014.D

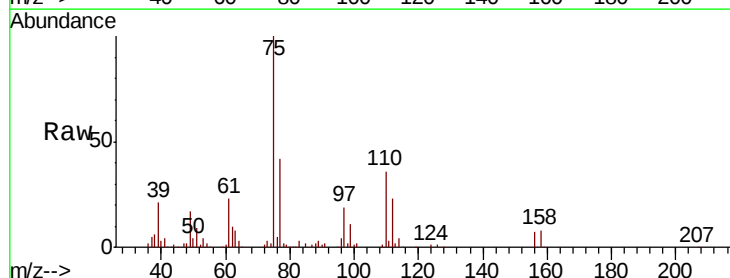
Acq: 4 Sep 2018 13:02

Tgt Ion: 75 Resp: 130128

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN050782.D (-3405) (-)

Ion 77.00 (76.70 to 77.70): VN050782.D (-3405) (-)

150000

100000

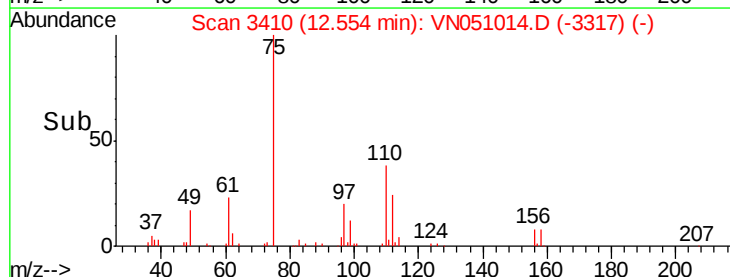
50000

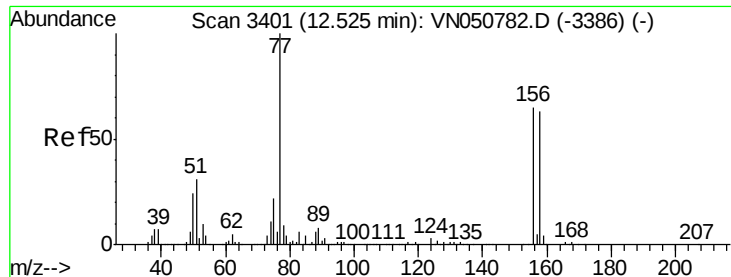
0

12.55

12.55 12.60

Time-->





#77

Bromobenzene

Concen: 19.64 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VN051014.D

Acq: 4 Sep 2018 13:02

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBSD01

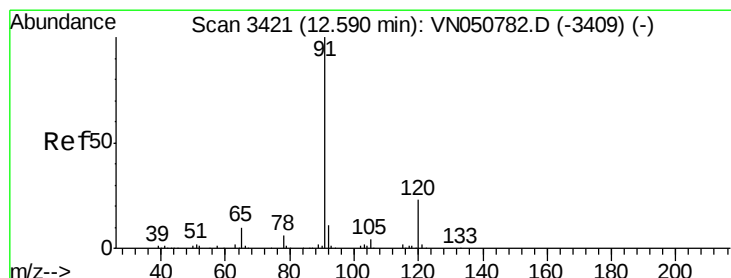
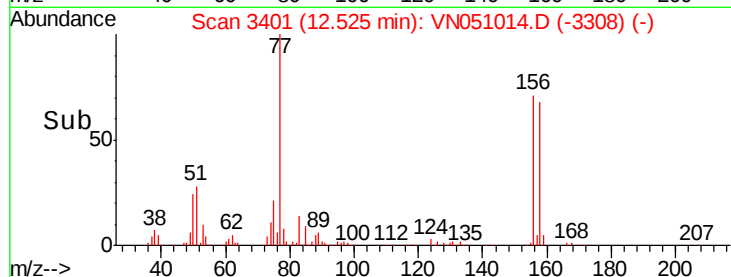
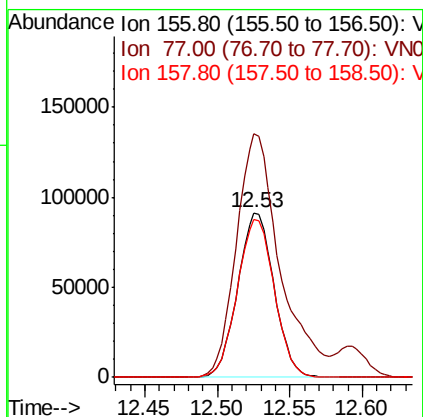
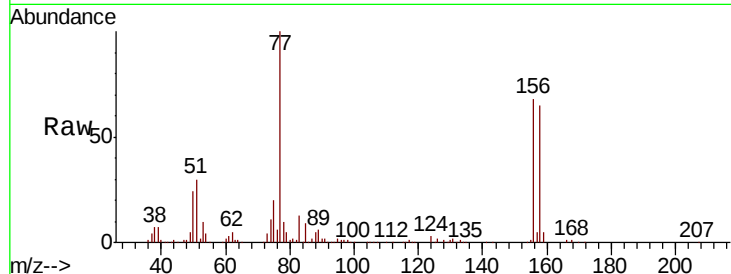
Tot Ion:	156	Resp:	159222
Ion Ratio	Lower	Upper	
156	100		
77	178.4	89.9	269.7
158	98.1	49.3	147.9

Manual Integrations
APPROVED

MMDadoda

9/5/2018 12:00:33 PM

9/5/2018 12:00:33 PM



#78

n-propylbenzene

Concen: 20.14 ug/l

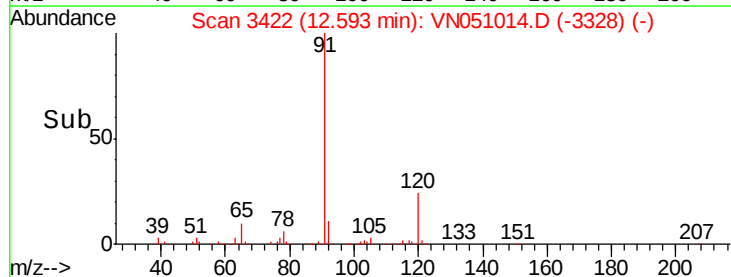
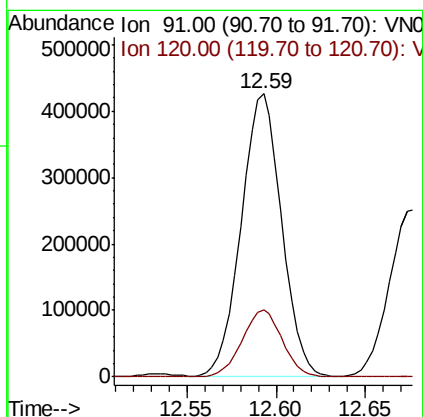
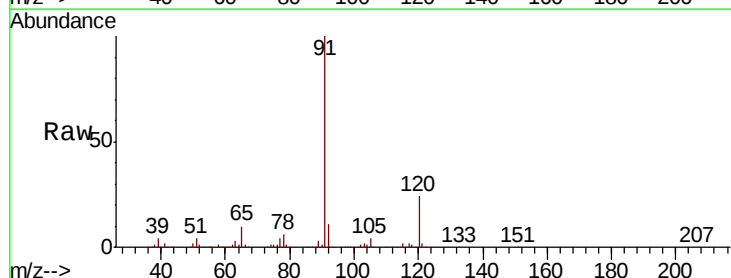
RT: 12.59 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN051014.D

Acq: 4 Sep 2018 13:02

Tgt Ion:	91	Resp:	671302
Ion Ratio	Lower	Upper	
91	100		
120	23.6	11.7	35.0





#79

2-Chlorotoluene

Concen: 20.06 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN051014.D

Acq: 4 Sep 2018 13:02

Instrument :

MSVOA_N

ClientSampled :

VN0904WBSD01

Tot Ion: 91 Resp: 416538

Ion Ratio Lower Upper

91 100

126 36.0 17.8 53.3

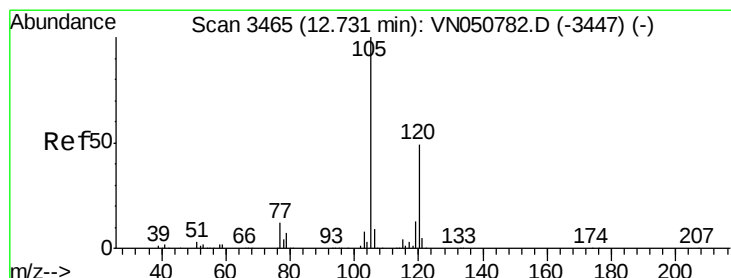
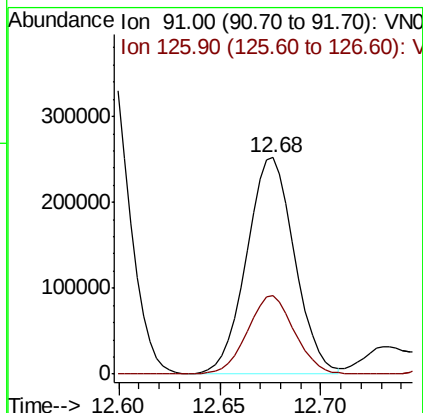
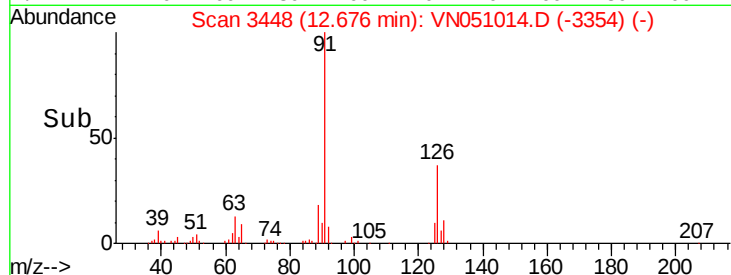
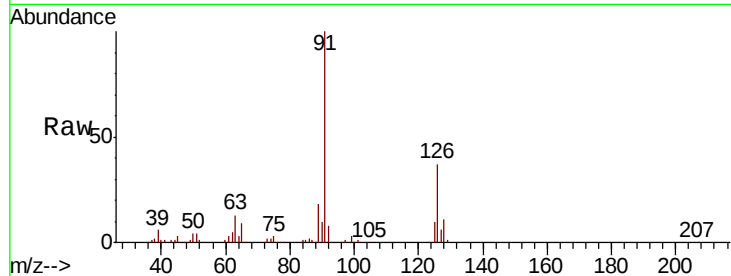
Manual Integrations

APPROVED

MMDadoda

9/5/2018 12:00:33 PM

9/5/2018 12:00:33 PM



#80

1,3,5-Trimethylbenzene

Concen: 20.87 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN051014.D

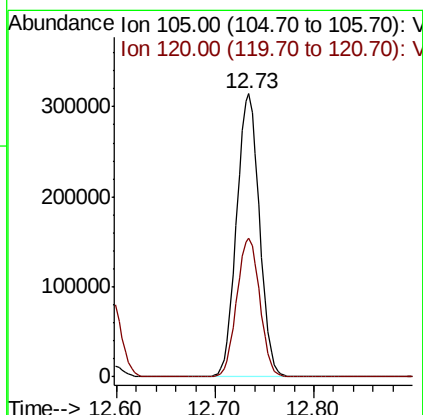
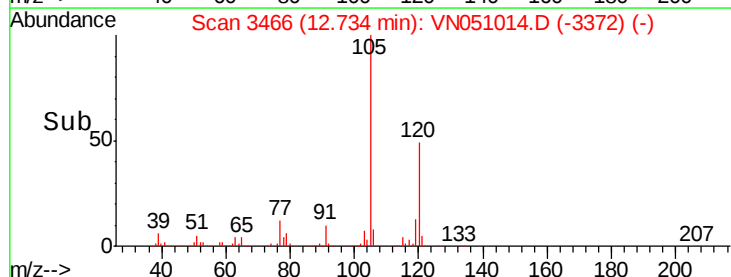
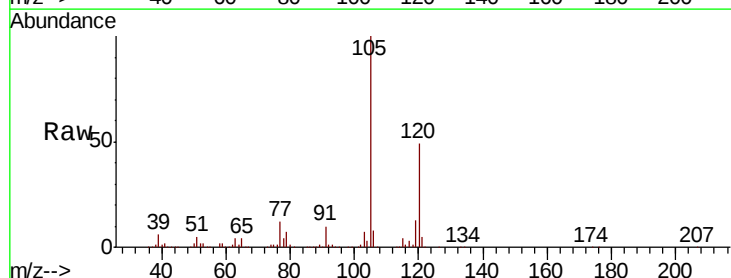
Acq: 4 Sep 2018 13:02

Tgt Ion: 105 Resp: 502414

Ion Ratio Lower Upper

105 100

120 49.4 24.6 74.0





#81

trans-1,4-Dichloro-2-butene

Concen: 18.46 ug/l

RT: 12.30 min Scan# 3332

Delta R.T. 0.00 min

Lab File: VN051014.D

Acq: 4 Sep 2018 13:02

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBSD01

Tot Ion: 75 Resp: 34468

Ion Ratio Lower Upper

75 100

53 90.7 68.9 103.3

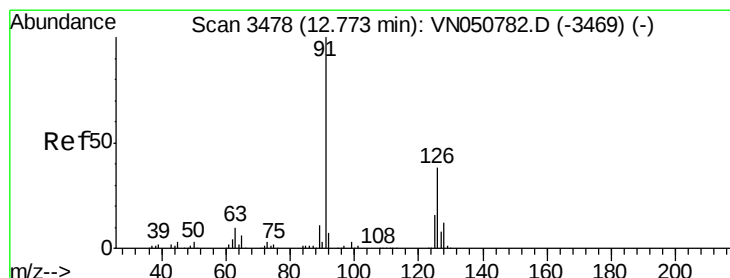
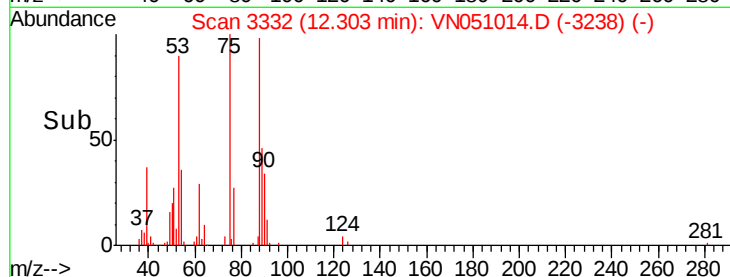
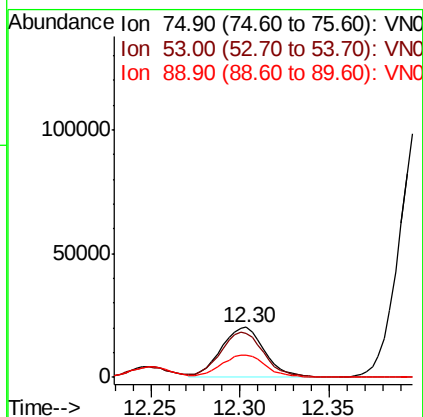
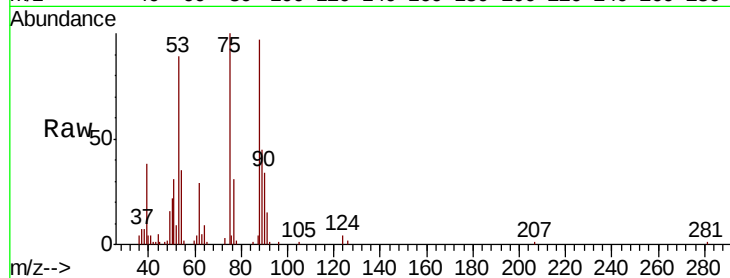
89 45.5 36.1 54.1

Manual Integrations
APPROVED

MMDadoda

9/5/2018 12:00:33 PM

9/5/2018 12:00:33 PM



#82

4-Chlorotoluene

Concen: 19.67 ug/l

RT: 12.77 min Scan# 3478

Delta R.T. 0.00 min

Lab File: VN051014.D

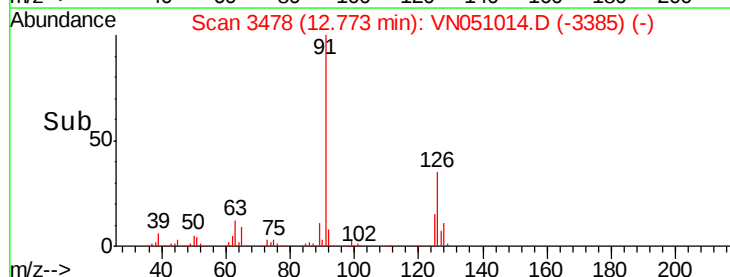
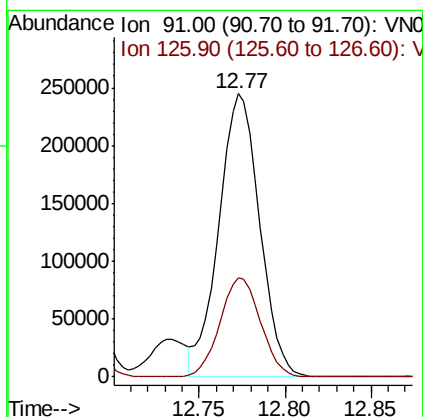
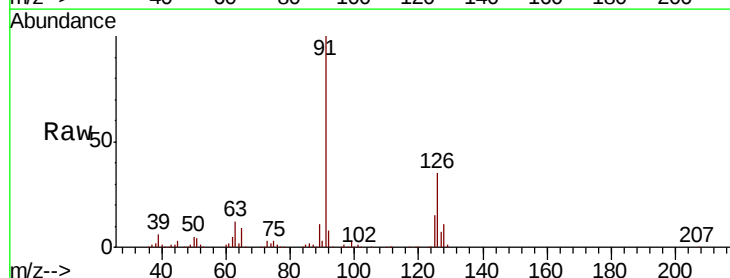
Acq: 4 Sep 2018 13:02

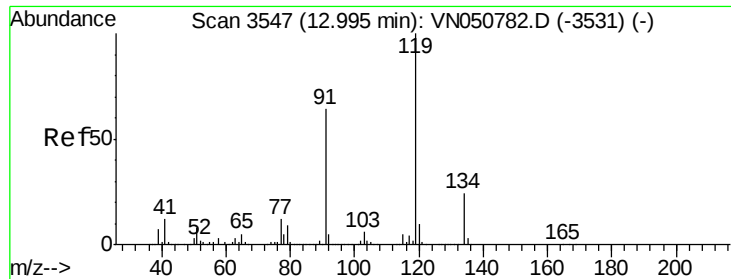
Tgt Ion: 91 Resp: 403070

Ion Ratio Lower Upper

91 100

126 35.1 17.5 52.5





#83
tert-Butylbenzene
Concen: 21.20 ug/l
RT: 12.99 min Scan# 3547
Delta R.T. 0.00 min
Lab File: VN051014.D
Acq: 4 Sep 2018 13:02

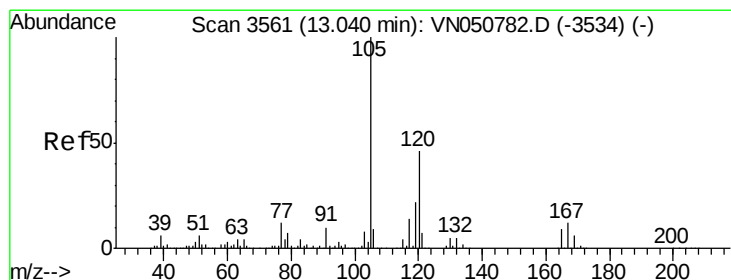
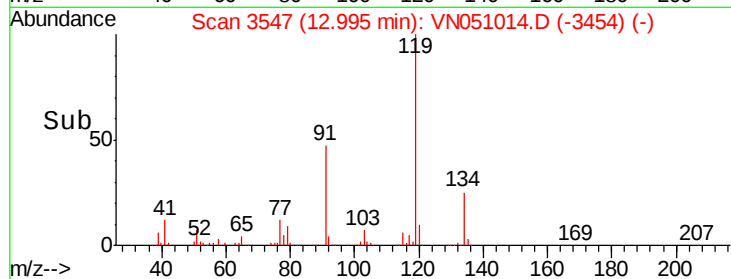
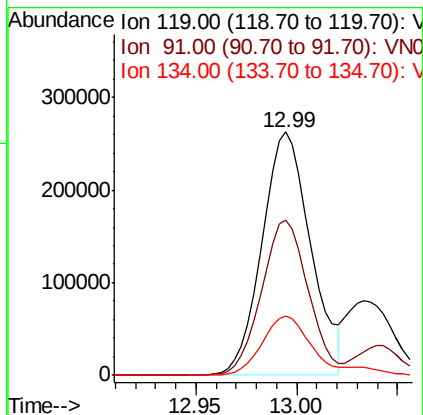
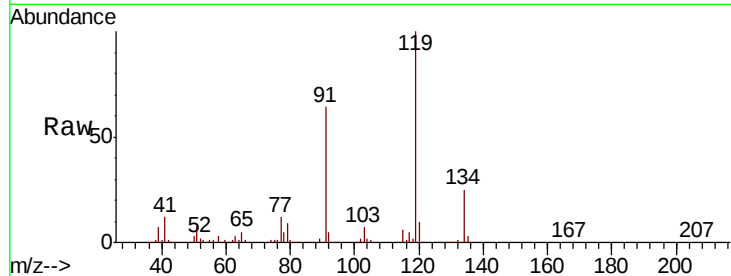
Instrument :
MSVOA_N
ClientSampled :
VN0904WBSD01

Tot Ion	Ratio	Lower	Upper
119	100		
91	61.5	31.6	94.7
134	24.2	13.4	40.1

Manual Integrations
APPROVED

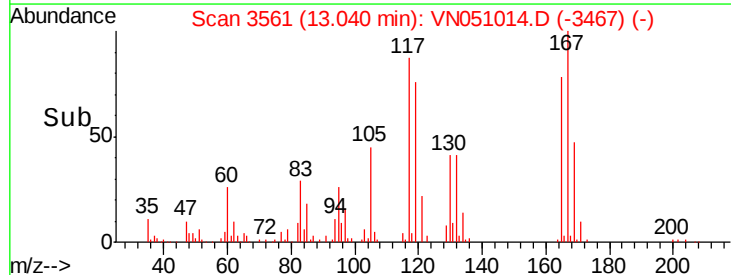
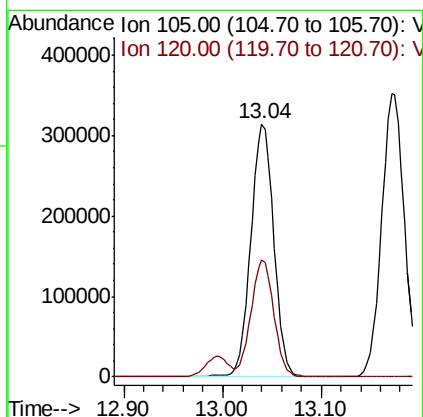
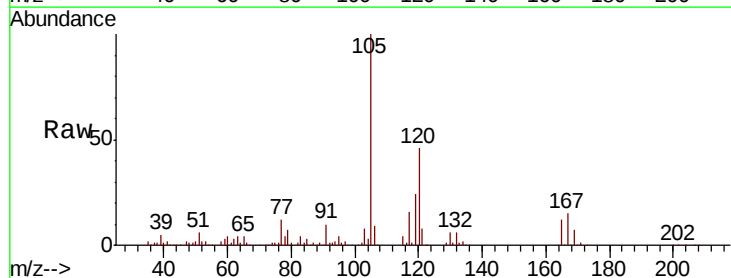
MMDadoda
9/5/2018 12:00:33 PM

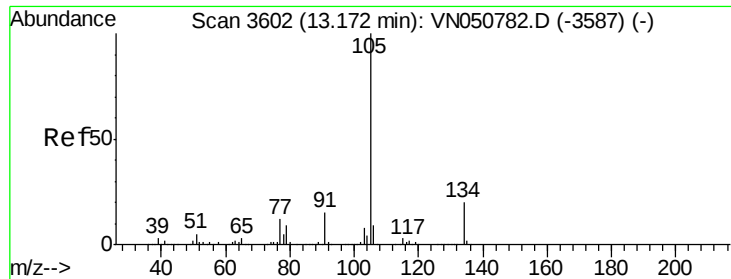
9/5/2018 12:00:33 PM



#84
1,2,4-Trimethylbenzene
Concen: 20.77 ug/l
RT: 13.04 min Scan# 3561
Delta R.T. 0.00 min
Lab File: VN051014.D
Acq: 4 Sep 2018 13:02

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.3	22.9	68.8





#85
 sec-Butylbenzene
 Concen: 20.51 ug/l
 RT: 13.17 min Scan# 3602
 Delta R.T. 0.00 min
 Lab File: VN051014.D
 Acq: 4 Sep 2018 13:02

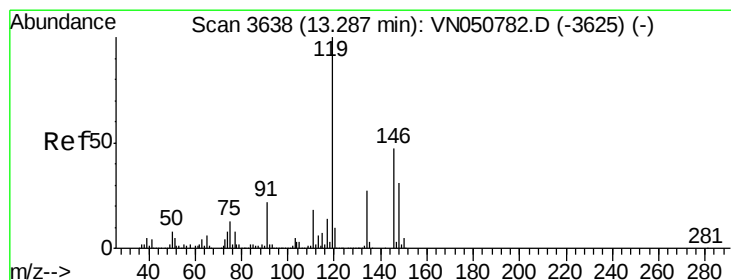
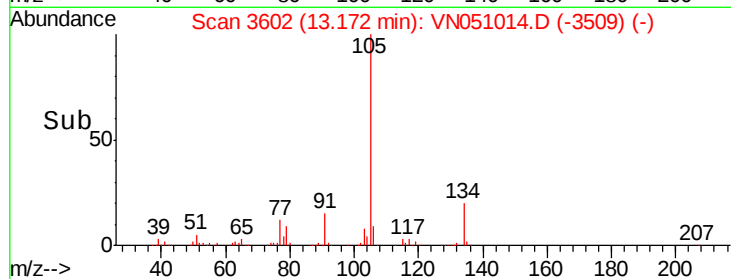
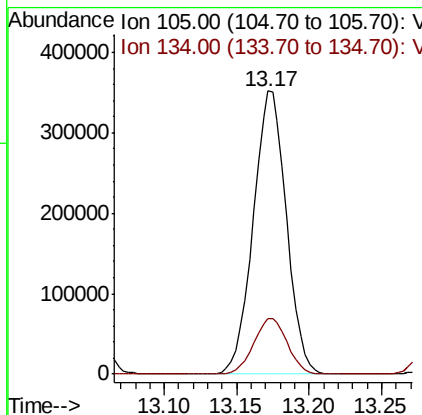
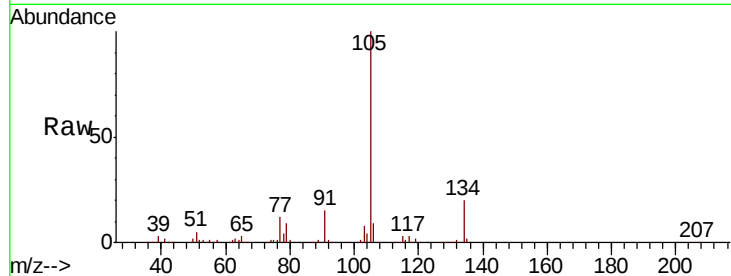
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0904WBSD01

Tot Ion	Ratio	Lower	Upper
105	100		
134	19.9	10.3	30.8

Manual Integrations
 APPROVED

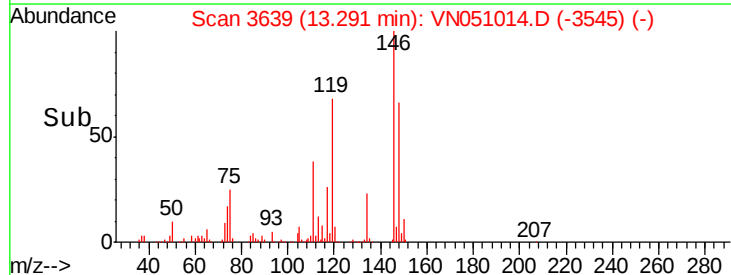
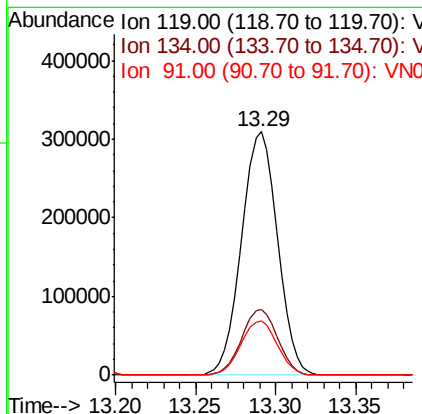
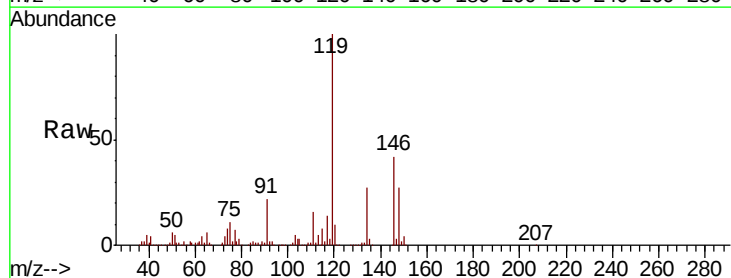
MMDadoda
 9/5/2018 12:00:33 PM

9/5/2018 12:00:33 PM



#86
 p-Isopropyltoluene
 Concen: 20.35 ug/l
 RT: 13.29 min Scan# 3639
 Delta R.T. 0.00 min
 Lab File: VN051014.D
 Acq: 4 Sep 2018 13:02

Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.0	13.7	41.0
91	22.5	11.2	33.5





#87
 1,3-Dichlorobenzene
 Concen: 19.01 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. 0.00 min
 Lab File: VN051014.D
 Acq: 4 Sep 2018 13:02

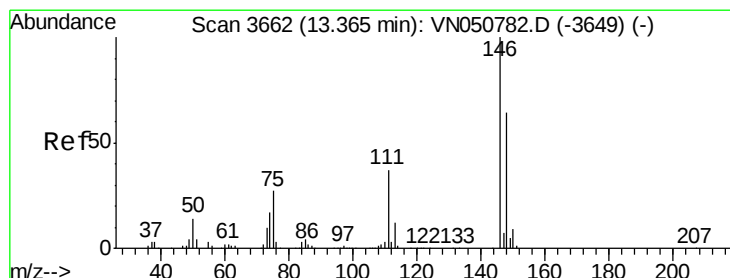
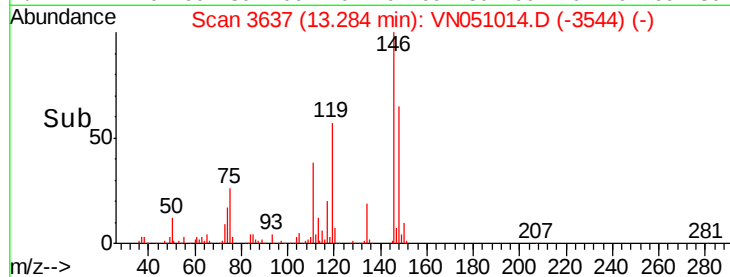
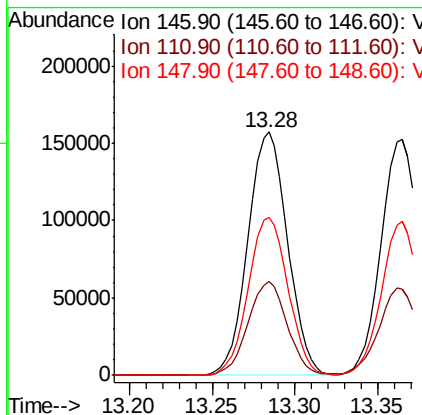
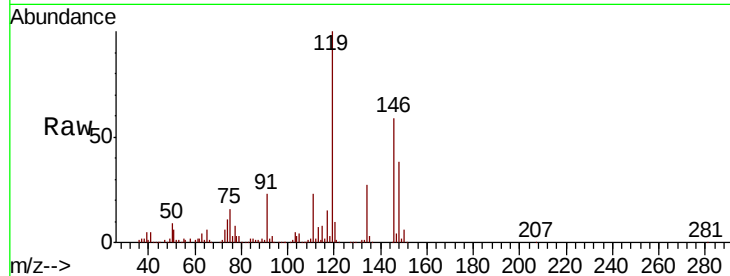
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0904WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.0	19.1	57.3
148	65.0	32.2	96.6

Manual Integrations
 APPROVED

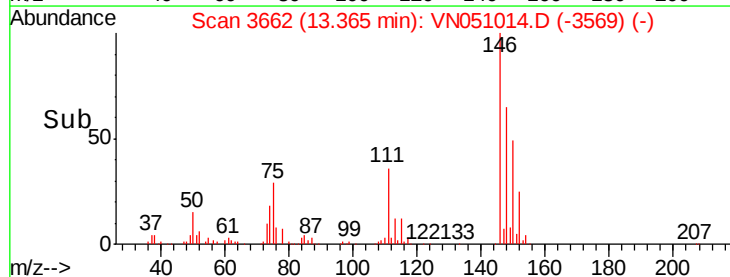
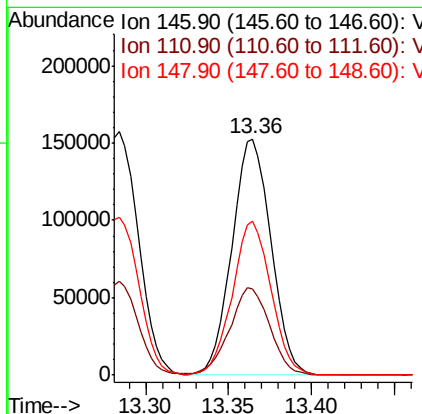
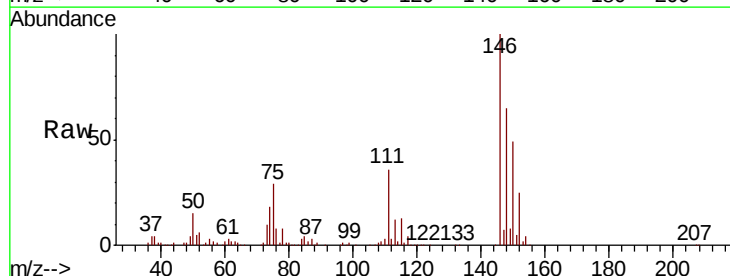
MMDadoda
 9/5/2018 12:00:33 PM

9/5/2018 12:00:33 PM



#88
 1,4-Dichlorobenzene
 Concen: 18.50 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. 0.00 min
 Lab File: VN051014.D
 Acq: 4 Sep 2018 13:02

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.1	18.8	56.3
148	64.3	32.2	96.6





#89
n-Butylbenzene
Concen: 18.08 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. 0.00 min
Lab File: VN051014.D
Acq: 4 Sep 2018 13:02

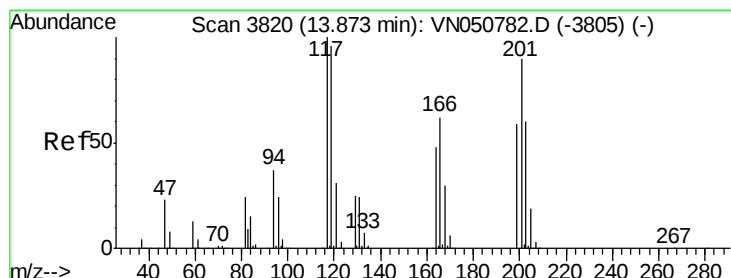
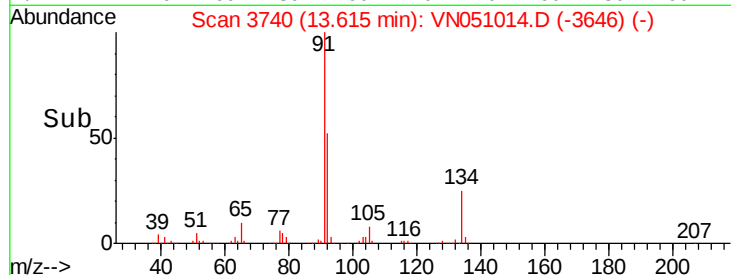
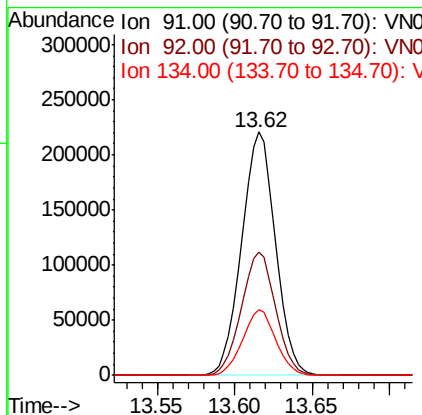
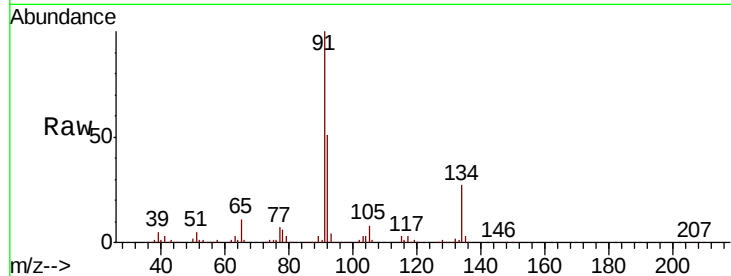
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
91	100			
92	51.1	26.1	78.2	
134	26.5	13.2	39.6	

Manual Integrations
APPROVED

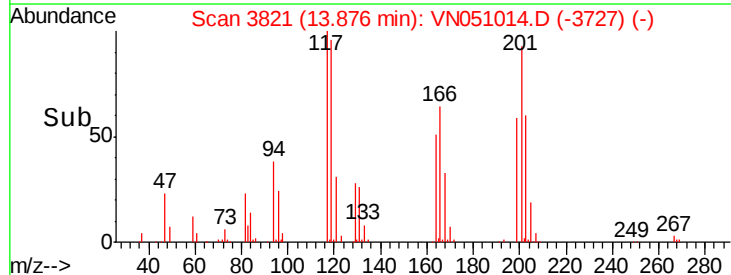
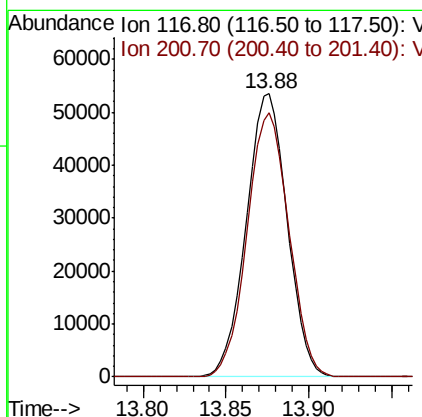
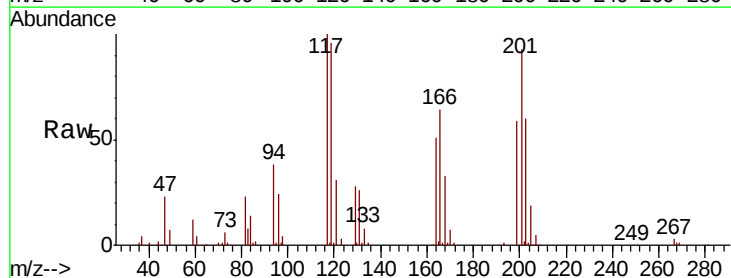
MMDadoda
9/5/2018 12:00:33 PM

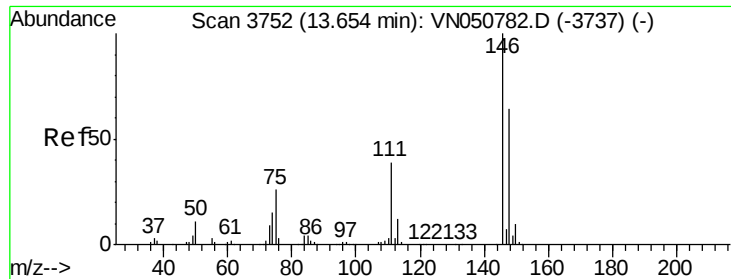
9/5/2018 12:00:33 PM



#90
Hexachloroethane
Concen: 20.79 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. 0.00 min
Lab File: VN051014.D
Acq: 4 Sep 2018 13:02

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
201	94.8	46.0	137.8	





#91

1,2-Dichlorobenzene

Concen: 19.52 ug/l

RT: 13.65 min Scan# 3752

Delta R.T. 0.00 min

Lab File: VN051014.D

Acq: 4 Sep 2018 13:02

Instrument :

MSVOA_N

ClientSampled :

VN0904WBSD01

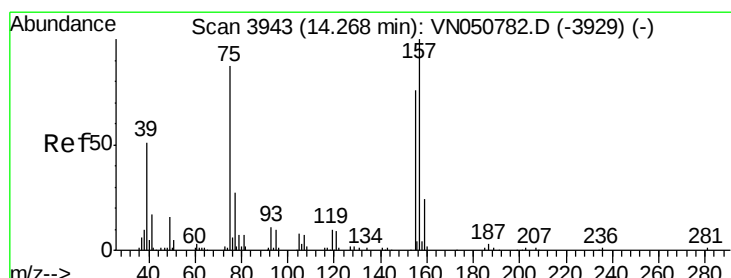
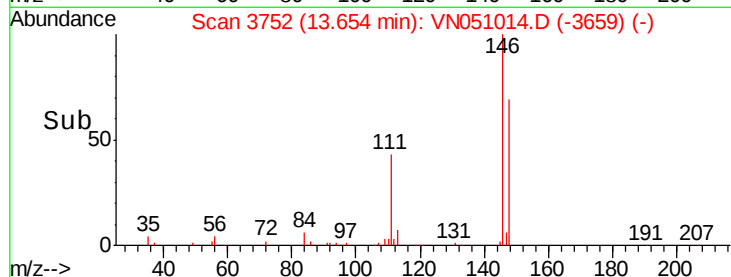
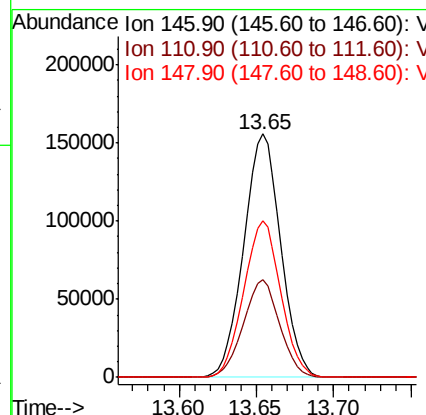
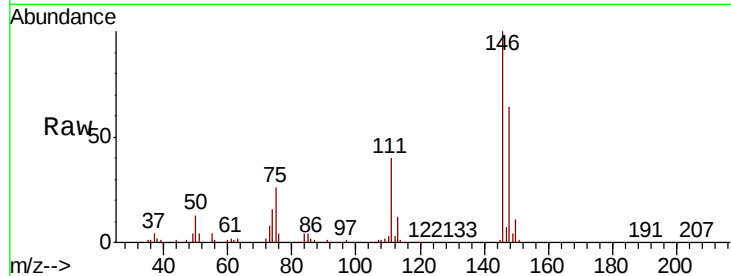
Tot Ion:	146	Resp:	259107
Ion Ratio		Lower	Upper
146	100		
111	39.4	19.8	59.3
148	64.4	32.3	96.8

Manual Integrations
APPROVED

MMDadoda

9/5/2018 12:00:33 PM

9/5/2018 12:00:33 PM



#92

1,2-Dibromo-3-Chloropropane

Concen: 18.84 ug/l

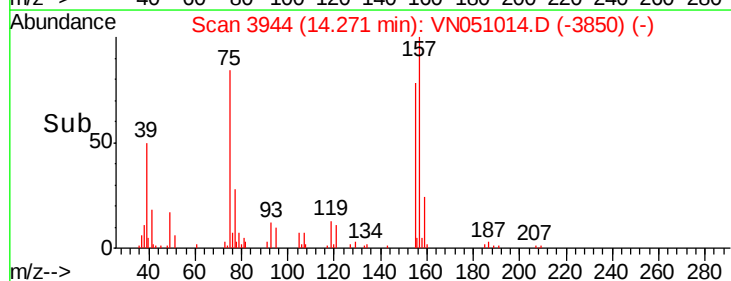
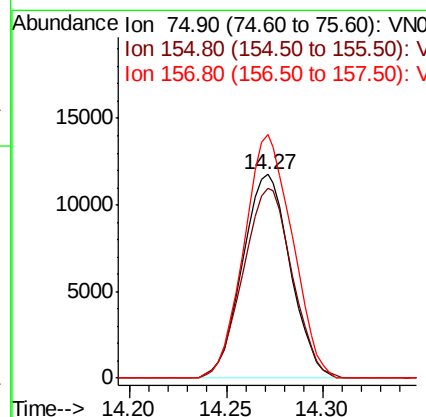
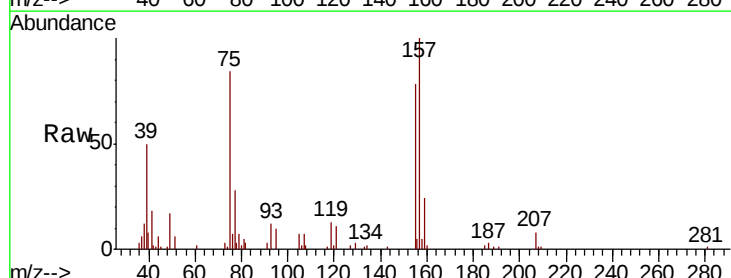
RT: 14.27 min Scan# 3944

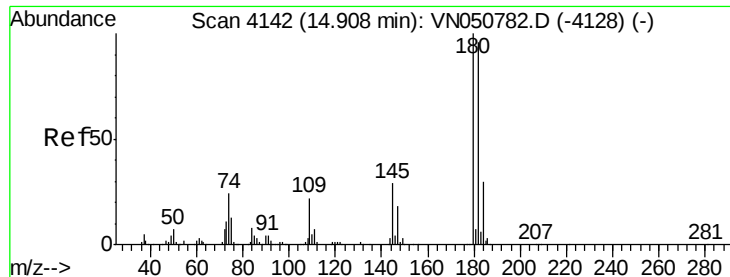
Delta R.T. 0.00 min

Lab File: VN051014.D

Acq: 4 Sep 2018 13:02

Tgt Ion:	75	Resp:	20192
Ion Ratio		Lower	Upper
75	100		
155	95.7	46.4	139.1
157	120.7	60.7	182.0





#93
 1,2,4-Trichlorobenzene
 Concen: 16.32 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN051014.D
 Acq: 4 Sep 2018 13:02

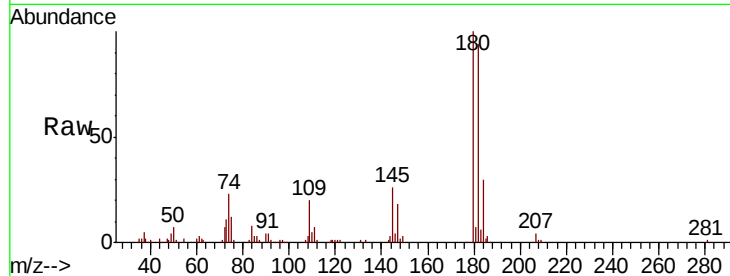
Instrument :
 MSVOA_N
 ClientSampled :
 VN0904WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	94.7	48.2	144.6	
145	27.1	14.1	42.2	

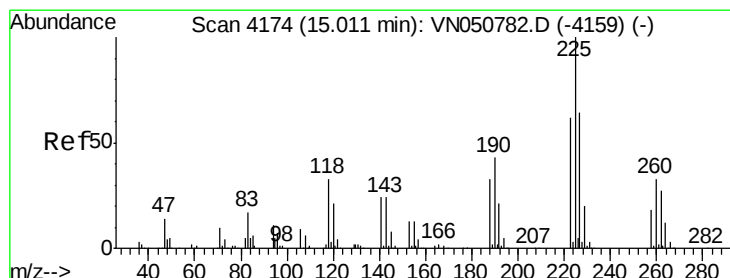
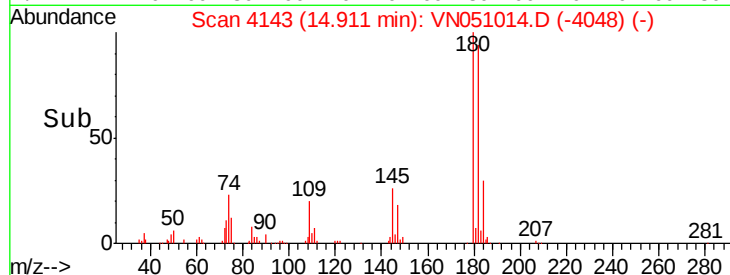
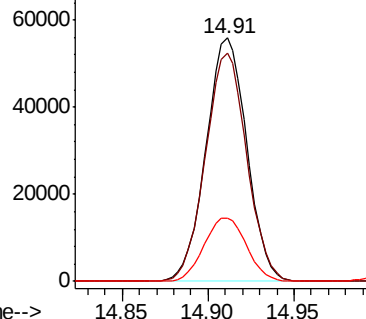
Manual Integrations
 APPROVED

MMDadoda
 9/5/2018 12:00:33 PM

9/5/2018 12:00:33 PM

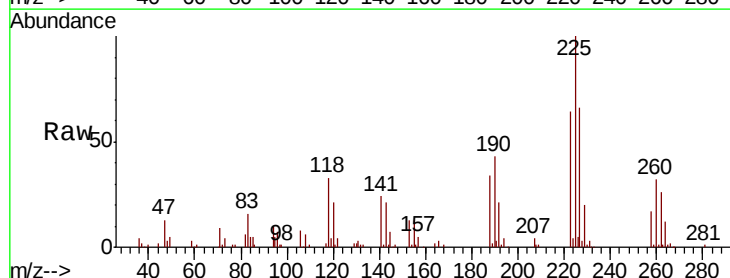


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

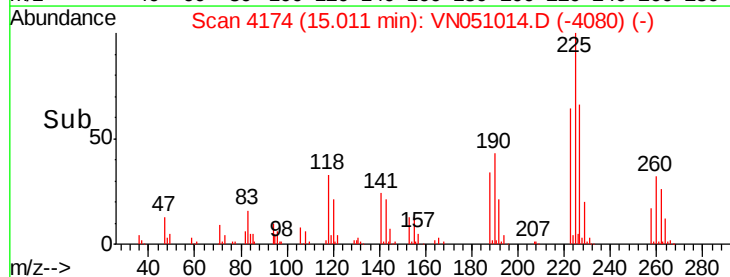
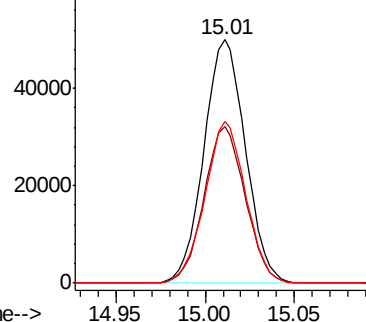


#94
 Hexachlorobutadiene
 Concen: 20.04 ug/l
 RT: 15.01 min Scan# 4174
 Delta R.T. 0.00 min
 Lab File: VN051014.D
 Acq: 4 Sep 2018 13:02

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	63.9	31.3	93.8	
227	65.0	32.0	96.2	



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95
Naphthalene
Concen: 16.02 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. 0.00 min
Lab File: VN051014.D
Acq: 4 Sep 2018 13:02

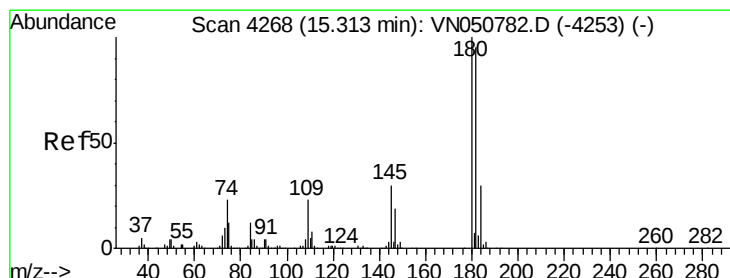
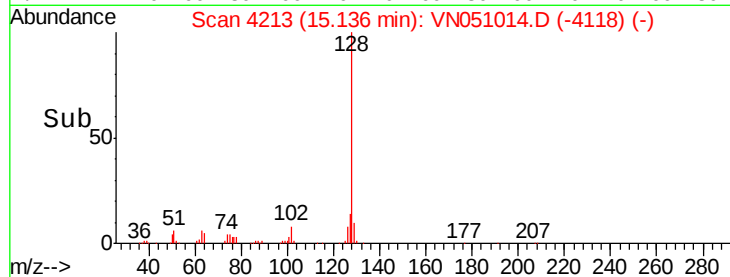
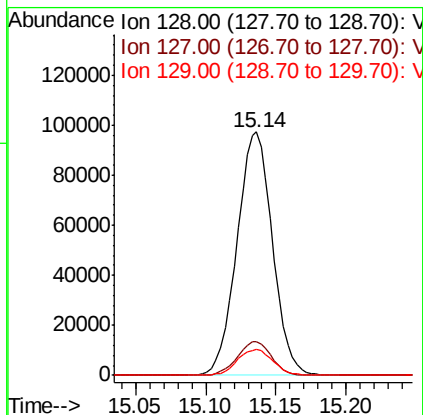
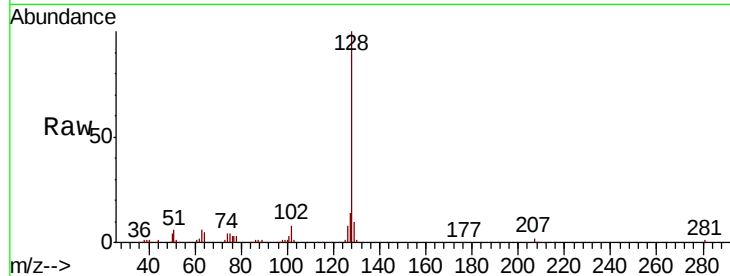
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	171416		
127	13.4	10.5	15.7	
129	10.8	8.7	13.1	

Manual Integrations
APPROVED

MMDadoda
9/5/2018 12:00:33 PM

9/5/2018 12:00:33 PM



#96
1,2,3-Trichlorobenzene
Concen: 17.18 ug/l
RT: 15.32 min Scan# 4269
Delta R.T. 0.00 min
Lab File: VN051014.D
Acq: 4 Sep 2018 13:02

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	96247		
182	95.6	48.0	144.2	
145	29.9	15.2	45.6	

