

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN111918\
 Data File : VN052378.D
 Acq On : 19 Nov 2018 11:36
 Operator : MD\SY
 Sample : VN1119WBS01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1119WBS01

Manual Integrations
 APPROVED

MMDadoda
 11/20/2018 11:39:12 AM

Quant Time: Nov 20 07:25:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 15 03:02:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	310408	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	509973	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	448341	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	196056	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	229056	52.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.50%	
35) Dibromofluoromethane	7.59	113	174770	53.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.26%	
50) Toluene-d8	10.09	98	666340	51.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.00%	
62) 4-Bromofluorobenzene	12.40	95	218278	51.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.56%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.86	85	67747	20.60	ug/l	97
3) Chloromethane	2.07	50	87696	19.18	ug/l	100
4) Vinyl Chloride	2.19	62	76406	19.34	ug/l	97
5) Bromomethane	2.58	94	42543	17.27	ug/l	97
6) Chloroethane	2.72	64	45841	20.52	ug/l	93
7) Trichlorofluoromethane	3.03	101	116575	21.32	ug/l	99
8) Diethyl Ether	3.42	74	38457	18.45	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.77	101	68552	19.85	ug/l	97
10) Methyl Iodide	3.96	142	68080	14.68	ug/l	96
11) Tert butyl alcohol	4.78	59	18909	81.67	ug/l	100
12) 1,1-Dichloroethene	3.75	96	59819	18.72	ug/l	97
13) Acrolein	3.62	56	19544	72.86	ug/l	95
14) Allyl chloride	4.33	41	132223	20.15	ug/l	98
15) Acrylonitrile	4.99	53	118490	89.63	ug/l	99
16) Acetone	3.82	43	123914	102.65	ug/l	97
17) Carbon Disulfide	4.06	76	192442	21.00	ug/l	96
18) Methyl Acetate	4.33	43	58249	17.50	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	178053	19.39	ug/l	98
20) Methylene Chloride	4.56	84	70936	18.88	ug/l	97
21) trans-1,2-Dichloroethene	5.05	96	64982	18.89	ug/l	98
22) Diisopropyl ether	5.95	45	273408	20.42	ug/l	98
23) Vinyl Acetate	5.90	43	800685	88.17	ug/l	99
24) 1,1-Dichloroethane	5.85	63	139788	19.47	ug/l	99
25) 2-Butanone	6.84	43	162981	95.92	ug/l	97
26) 2,2-Dichloropropane	6.83	77	100547	19.05	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	79364	19.82	ug/l	99
28) Bromochloromethane	7.20	49	76844	20.82	ug/l	99
29) Tetrahydrofuran	7.21	42	103809	93.00	ug/l	99
30) Chloroform	7.37	83	139840	20.44	ug/l	96
31) Cyclohexane	7.66	56	138952	20.22	ug/l	95
32) 1,1,1-Trichloroethane	7.57	97	115804	19.87	ug/l	97
36) 1,1-Dichloropropene	7.80	75	105149	20.57	ug/l	99
37) Ethyl Acetate	6.93	43	64018	17.26	ug/l	97
38) Carbon Tetrachloride	7.78	117	101183	21.55	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN111918\
 Data File : VN052378.D
 Acq On : 19 Nov 2018 11:36
 Operator : MD\SY
 Sample : VN1119WBS01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VN1119WBS01

Manual Integrations
 APPROVED

MMDadoda
 11/20/2018 11:39:12 AM

Quant Time: Nov 20 07:25:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 15 03:02:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	119367	20.46	ug/l	96
40) Benzene	8.04	78	294457	20.17	ug/l	96
41) Methacrylonitrile	7.17	41	36306	20.01	ug/l #	100
42) 1,2-Dichloroethane	8.13	62	112869	21.68	ug/l	99
43) Isopropyl Acetate	8.16	43	119640	16.71	ug/l	95
44) Trichloroethene	8.84	130	74419	20.69	ug/l	100
45) 1,2-Dichloropropane	9.12	63	82371	19.88	ug/l	96
46) Dibromomethane	9.21	93	47709	19.89	ug/l	98
47) Bromodichloromethane	9.40	83	107569	21.85	ug/l	99
48) Methyl methacrylate	9.20	41	59750	16.45	ug/l	99
49) 1,4-Dioxane	9.20	88	11338	406.63	ug/l	97
51) 4-Methyl-2-Pentanone	9.98	43	344664	95.65	ug/l	100
52) Toluene	10.15	92	181183	20.74	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	99510	20.04	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	117749	20.80	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	63364	20.01	ug/l	98
56) Ethyl methacrylate	10.43	69	72069	17.31	ug/l	98
57) 1,3-Dichloropropane	10.71	76	113219	20.19	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.69	63	233670	98.55	ug/l	99
59) 2-Hexanone	10.75	43	233912	94.38	ug/l	98
60) Dibromochloromethane	10.90	129	73544	21.47	ug/l	100
61) 1,2-Dibromoethane	11.00	107	59286	18.79	ug/l	97
64) Tetrachloroethene	10.63	164	66030	20.72	ug/l	98
65) Chlorobenzene	11.43	112	194531	20.53	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.51	131	68363	21.15	ug/l	99
67) Ethyl Benzene	11.51	91	350951	21.34	ug/l	99
68) m/p-Xylenes	11.62	106	255713	42.55	ug/l	98
69) o-Xylene	11.95	106	124278	21.57	ug/l	99
70) Styrene	11.96	104	194015	21.03	ug/l	98
71) Bromoform	12.13	173	42640	22.35	ug/l #	96
73) Isopropylbenzene	12.25	105	339889	21.56	ug/l	98
74) N-amyl acetate	12.07	43	92521	16.48	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	73986	19.42	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	58968m	17.73	ug/l	
77) Bromobenzene	12.53	156	75072	20.47	ug/l	100
78) n-propylbenzene	12.59	91	400313	21.71	ug/l	100
79) 2-Chlorotoluene	12.67	91	229777	21.34	ug/l	98
80) 1,3,5-Trimethylbenzene	12.73	105	274036	21.86	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	18776	18.31	ug/l	94
82) 4-Chlorotoluene	12.77	91	230319	20.87	ug/l	99
83) tert-Butylbenzene	12.99	119	238178	21.52	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	279074	22.18	ug/l	98
85) sec-Butylbenzene	13.17	105	330632	21.93	ug/l	100
86) p-Isopropyltoluene	13.29	119	278053	21.77	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	135975	20.88	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	133705	20.65	ug/l	99
89) n-Butylbenzene	13.61	91	242111	22.07	ug/l	100
90) Hexachloroethane	13.87	117	51162	22.62	ug/l	95
91) 1,2-Dichlorobenzene	13.65	146	126346	20.02	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	10858	19.32	ug/l	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN111918\
Data File : VN052378.D
Acq On : 19 Nov 2018 11:36
Operator : MD\SY
Sample : VN1119WBS01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS01

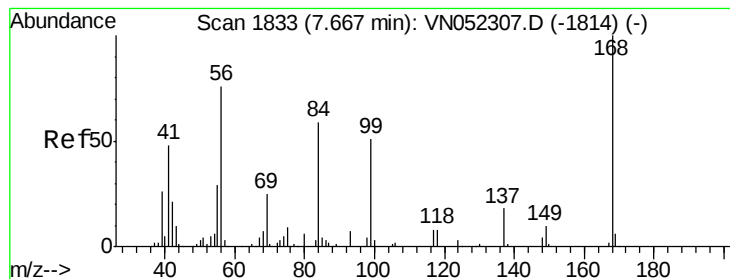
Manual Integrations
APPROVED

MMDadoda
11/20/2018 11:39:12 AM

Quant Time: Nov 20 07:25:44 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 15 03:02:37 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	55793	20.40	ug/l	99
94) Hexachlorobutadiene	15.01	225	34580	23.94	ug/l	97
95) Naphthalene	15.13	128	117352	18.63	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	49418	20.61	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN052378.D

Acq: 19 Nov 2018 11:36

Instrument :

MSVOA_N

ClientSampleId :

VN1119WBS01

Tgt Ion: 168 Resp: 310408

Ion Ratio Lower Upper

168 100

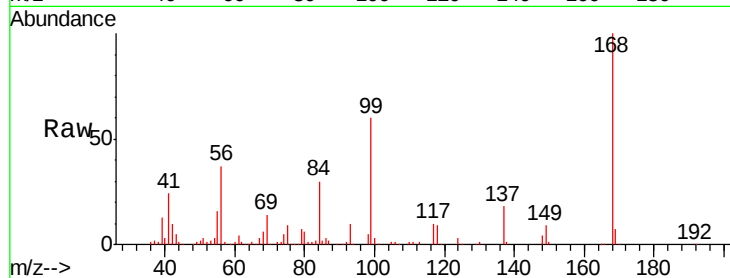
99 60.1 47.9 71.9

Manual Integrations

APPROVED

MMDadoda

11/20/2018 11:39:12 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

150000

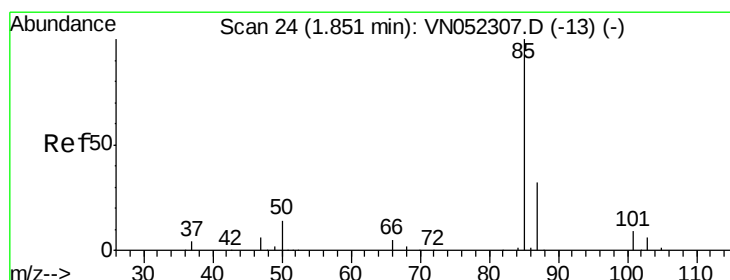
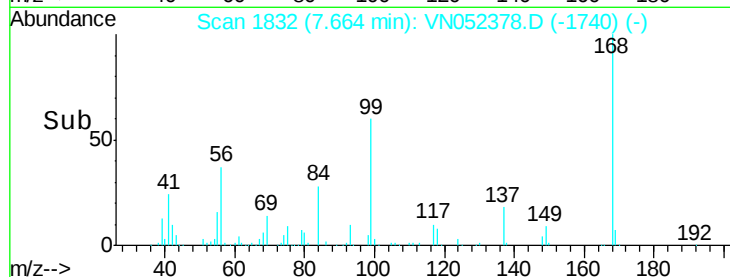
100000

50000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 20.60 ug/l

RT: 1.86 min Scan# 26

Delta R.T. 0.01 min

Lab File: VN052378.D

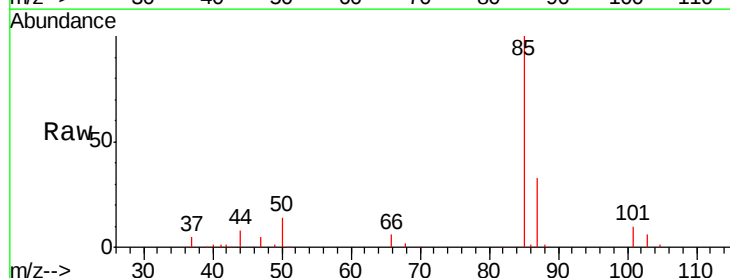
Acq: 19 Nov 2018 11:36

Tgt Ion: 85 Resp: 67747

Ion Ratio Lower Upper

85 100

87 33.2 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.86

60000

50000

40000

30000

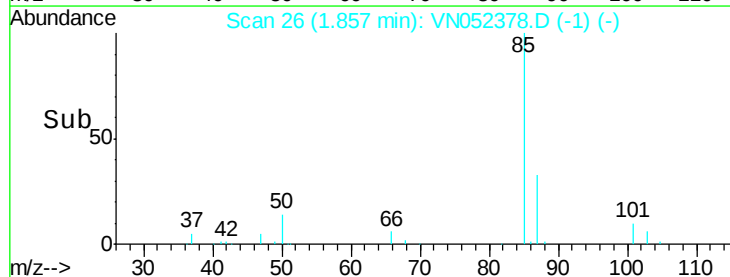
20000

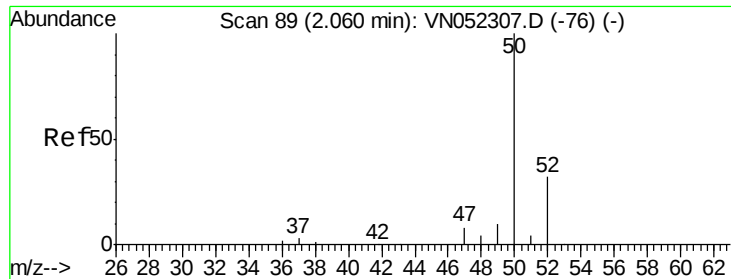
10000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 19.18 ug/l

RT: 2.07 min Scan# 91

Delta R.T. 0.01 min

Lab File: VN052378.D

Acq: 19 Nov 2018 11:36

Instrument :

MSVOA_N

ClientSampleId :

VN1119WBS01

Tgt Ion: 50 Resp: 87696

Ion Ratio Lower Upper

50 100

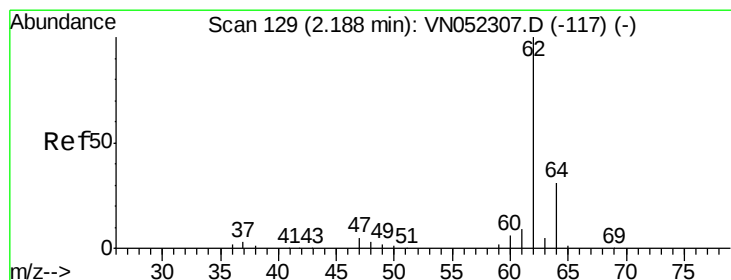
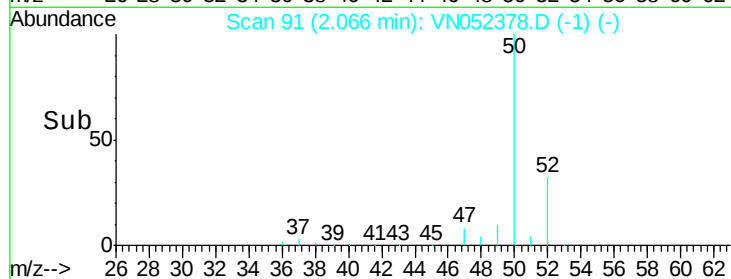
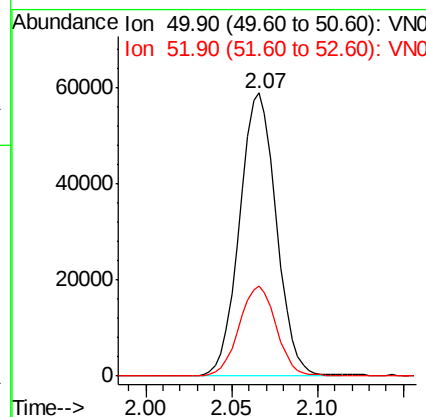
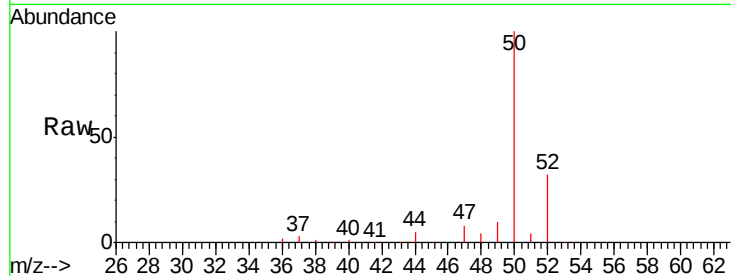
52 31.8 25.5 38.3

Manual Integrations

APPROVED

MMDadoda

11/20/2018 11:39:12 AM



#4

Vinyl Chloride

Concen: 19.34 ug/l

RT: 2.19 min Scan# 131

Delta R.T. 0.01 min

Lab File: VN052378.D

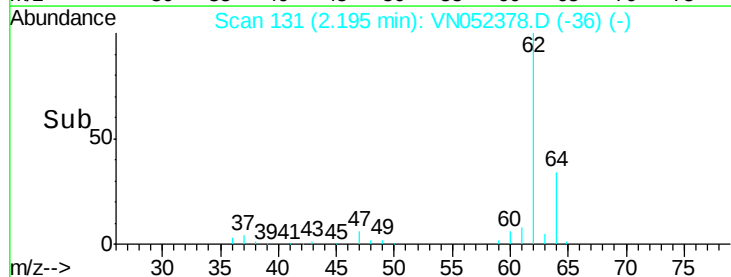
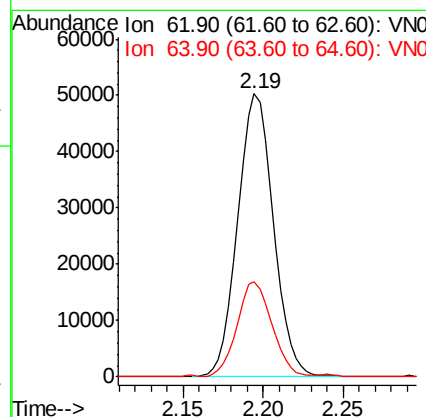
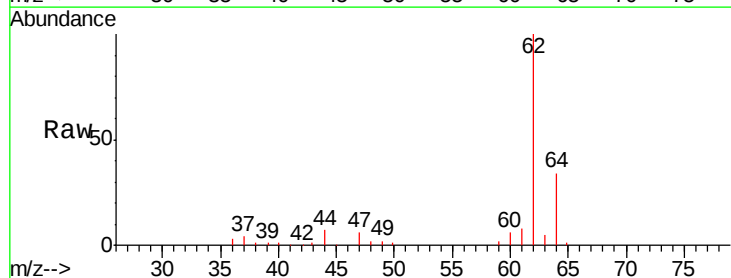
Acq: 19 Nov 2018 11:36

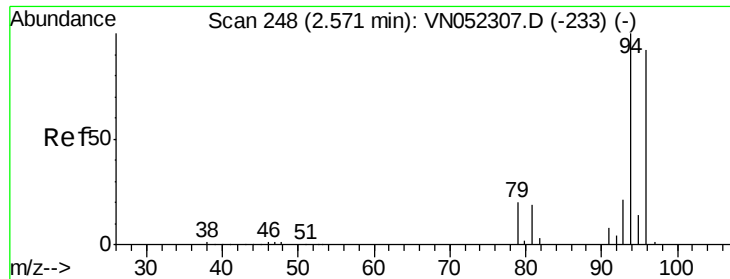
Tgt Ion: 62 Resp: 76406

Ion Ratio Lower Upper

62 100

64 33.4 25.2 37.8





#5

Bromomethane

Concen: 17.27 ug/l

RT: 2.58 min Scan# 251

Delta R.T. 0.01 min

Lab File: VN052378.D

Acq: 19 Nov 2018 11:36

Instrument :

MSVOA_N

ClientSampleId :

VN1119WBS01

Tgt Ion: 94 Resp: 42543

Ion Ratio Lower Upper

94 100

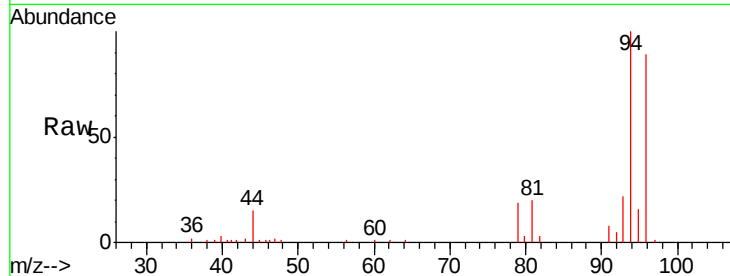
96 89.4 73.6 110.4

Manual Integrations

APPROVED

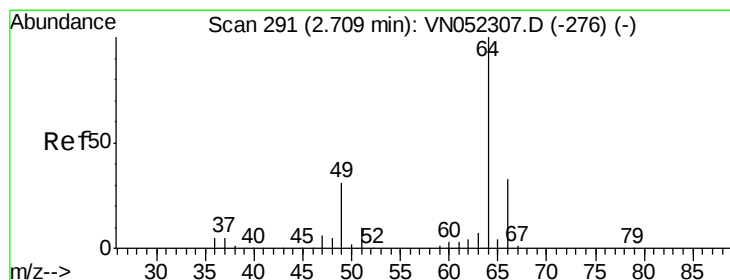
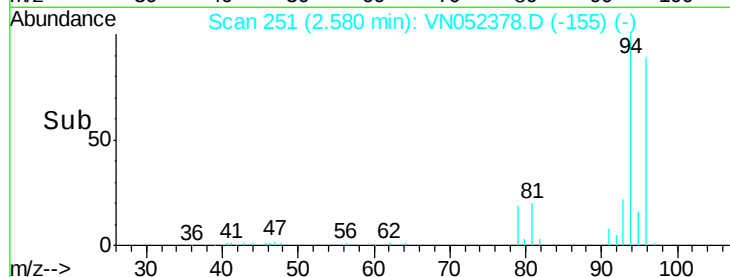
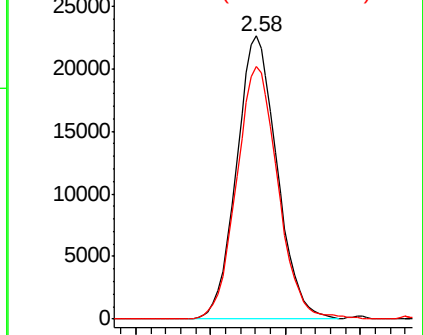
MMDadoda

11/20/2018 11:39:12 AM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 20.52 ug/l

RT: 2.72 min Scan# 293

Delta R.T. 0.01 min

Lab File: VN052378.D

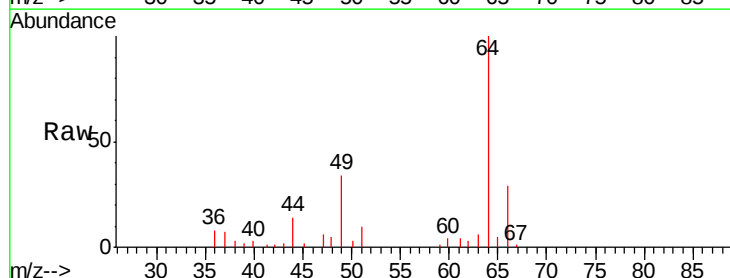
Acq: 19 Nov 2018 11:36

Tgt Ion: 64 Resp: 45841

Ion Ratio Lower Upper

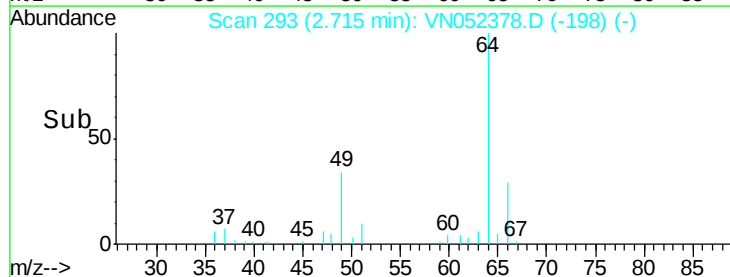
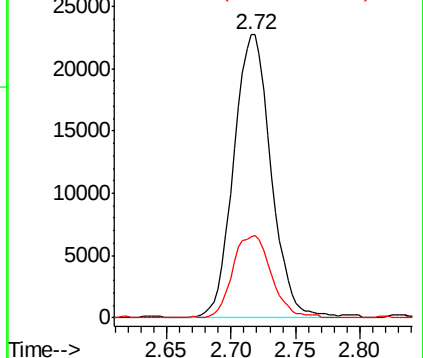
64 100

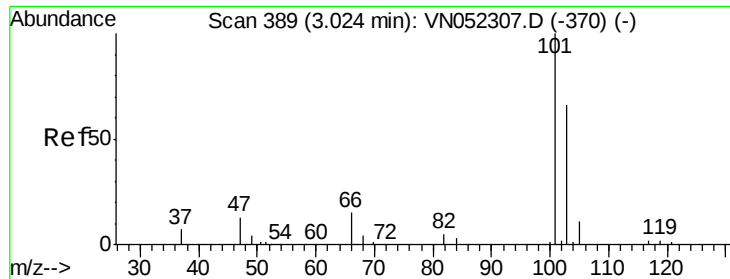
66 28.5 26.2 39.2



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

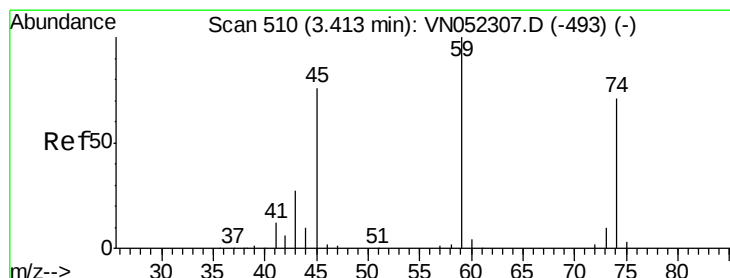
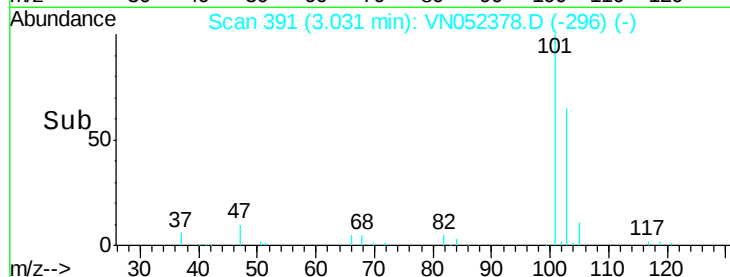
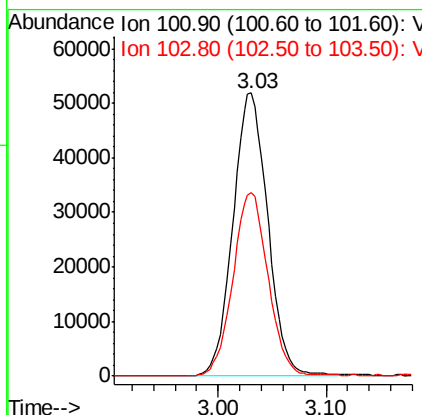
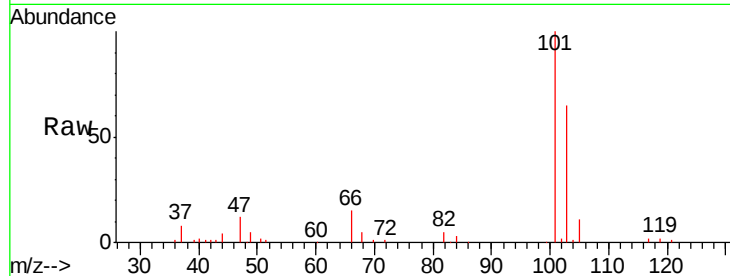
Trichlorofluoromethane
 Concen: 21.32 ug/l
 RT: 3.03 min Scan# 391
 Delta R.T. 0.01 min
 Lab File: VN052378.D
 Acq: 19 Nov 2018 11:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1119WBS01

Tgt Ion	Ratio	Resp	Lower	Upper
101	100	116575		
103	64.8	52.8	79.2	

Manual Integrations
 APPROVED

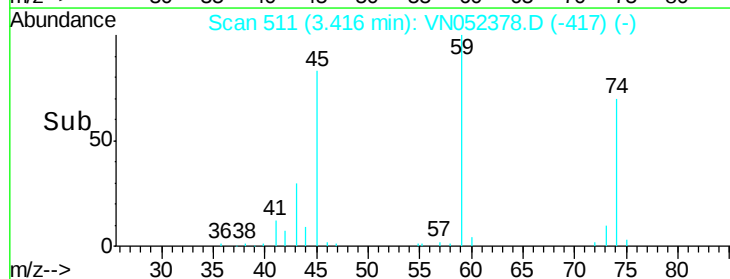
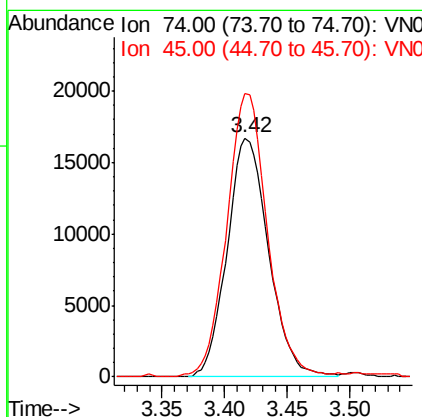
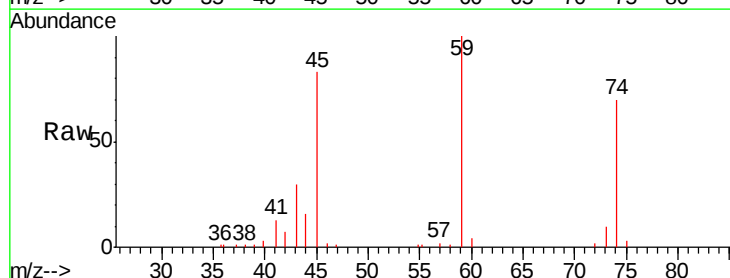
MMDadoda
 11/20/2018 11:39:12 AM

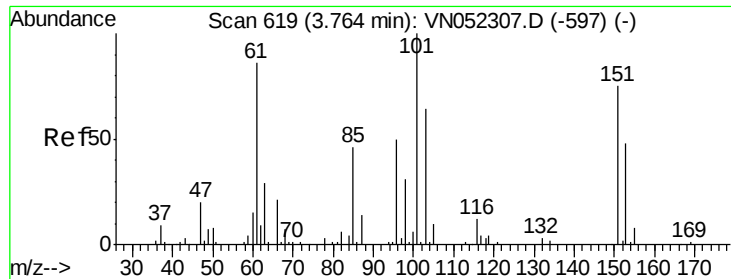


#8

Diethyl Ether
 Concen: 18.45 ug/l
 RT: 3.42 min Scan# 511
 Delta R.T. 0.00 min
 Lab File: VN052378.D
 Acq: 19 Nov 2018 11:36

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	38457		
45	116.4	54.3	162.9	





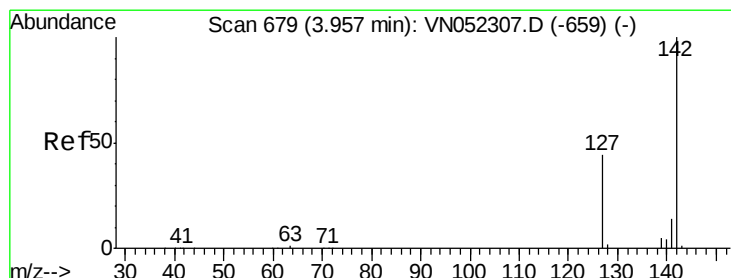
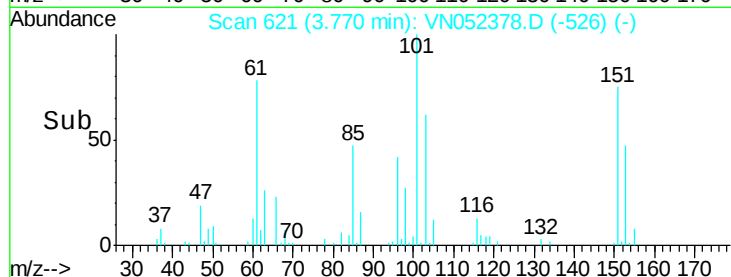
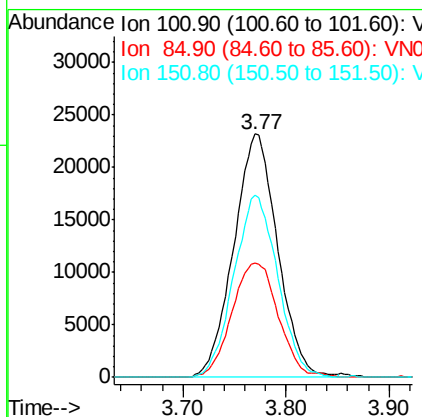
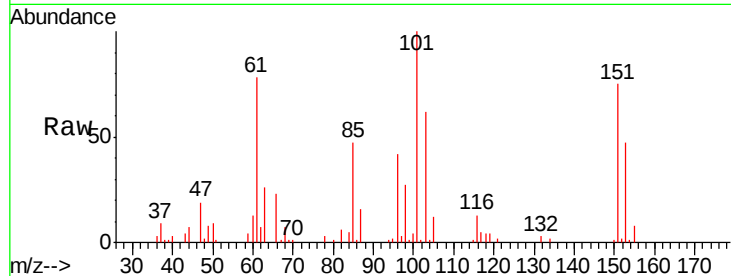
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 19.85 ug/l
 RT: 3.77 min Scan# 621
 Delta R.T. 0.01 min
 Lab File: VN052378.D
 Acq: 19 Nov 2018 11:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1119WBS01

Tgt Ion	Ratio	Lower	Upper
101	100		
85	49.7	37.4	56.0
151	74.9	58.6	88.0

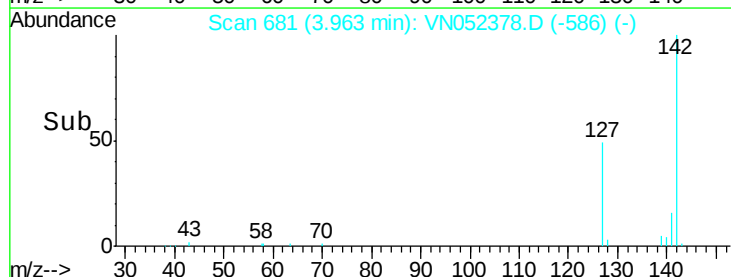
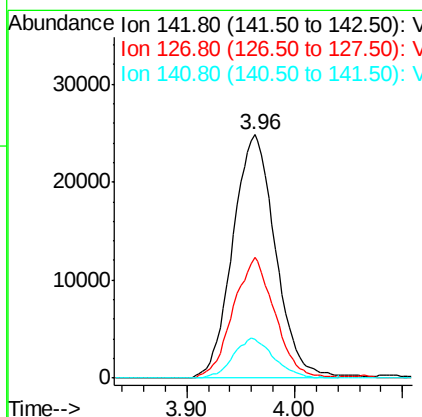
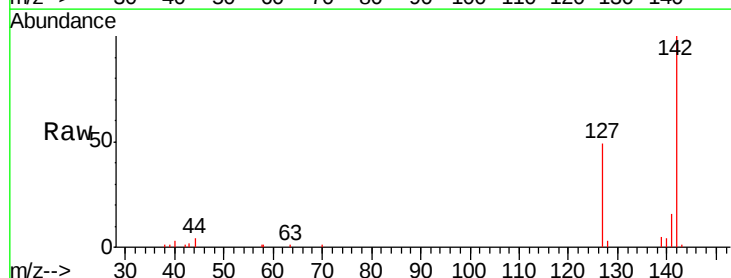
Manual Integrations
 APPROVED

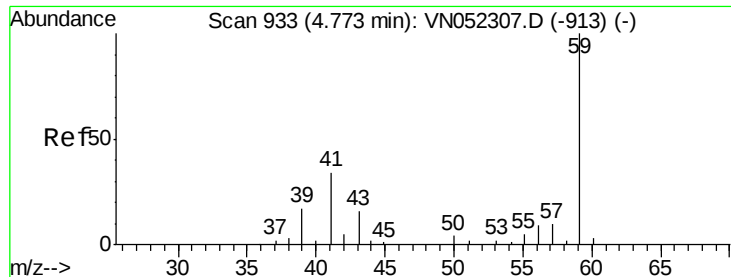
MMDadoda
 11/20/2018 11:39:12 AM



#10
 Methyl Iodide
 Concen: 14.68 ug/l
 RT: 3.96 min Scan# 681
 Delta R.T. 0.01 min
 Lab File: VN052378.D
 Acq: 19 Nov 2018 11:36

Tgt Ion	Ratio	Lower	Upper
142	100		
127	48.2	36.3	54.5
141	15.5	11.4	17.2





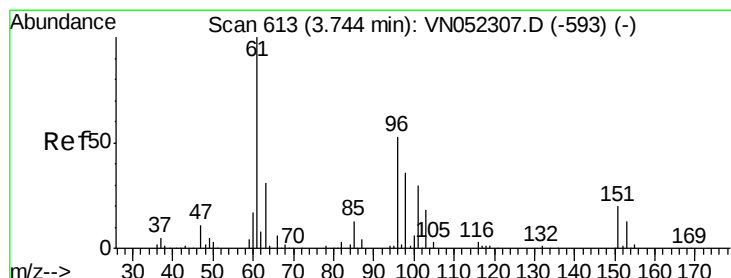
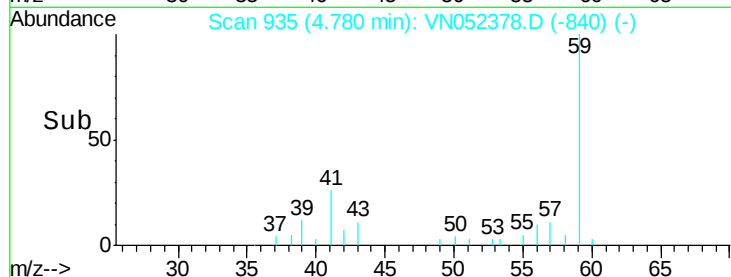
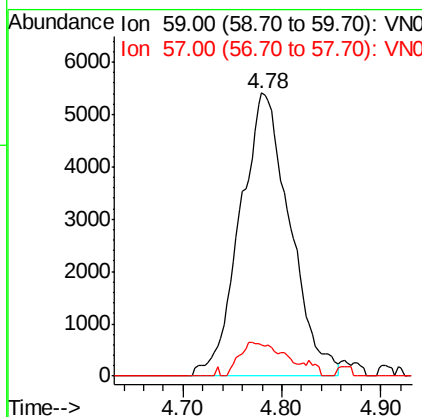
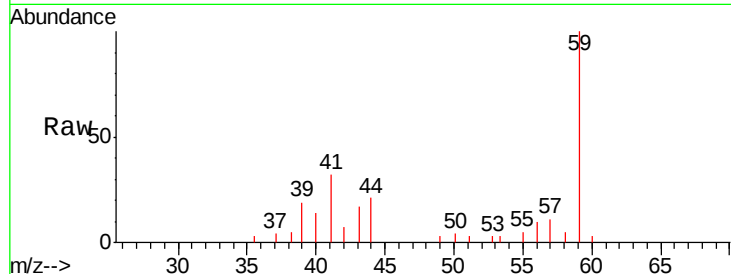
#11
Tert butyl alcohol
Concen: 81.67 ug/l
RT: 4.78 min Scan# 935
Delta R.T. 0.01 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS01

Tgt Ion: 59 Resp: 18909
Ion Ratio Lower Upper
59 100
57 10.4 8.5 12.7

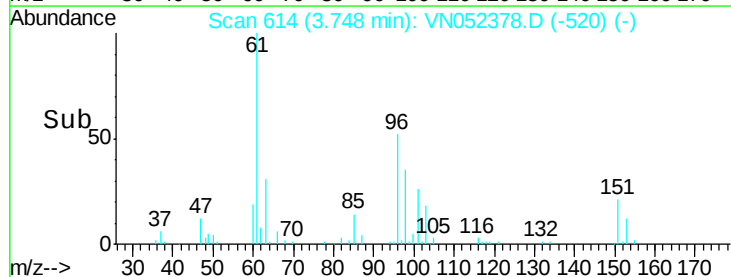
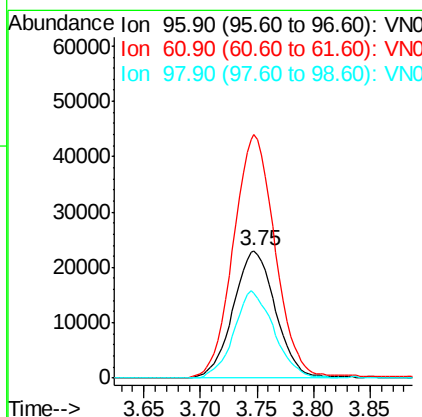
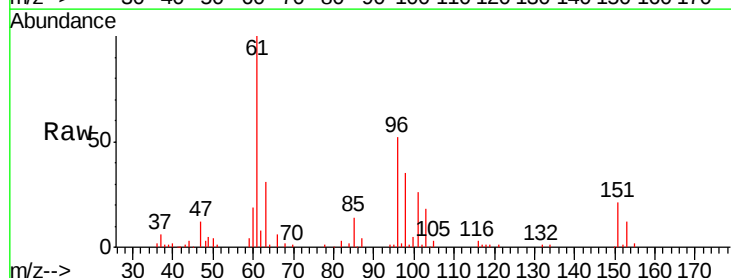
Manual Integrations
APPROVED

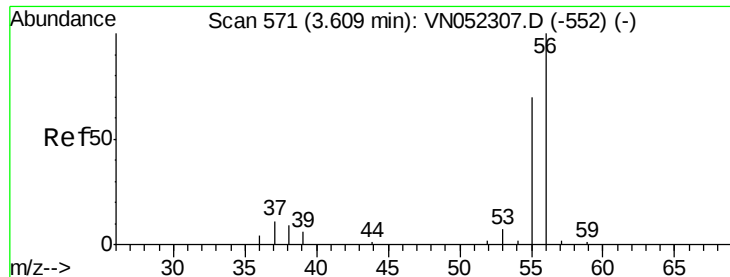
MMDadoda
11/20/2018 11:39:12 AM



#12
1,1-Dichloroethene
Concen: 18.72 ug/l
RT: 3.75 min Scan# 614
Delta R.T. 0.00 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Tgt Ion: 96 Resp: 59819
Ion Ratio Lower Upper
96 100
61 191.4 149.6 224.4
98 66.5 54.2 81.2





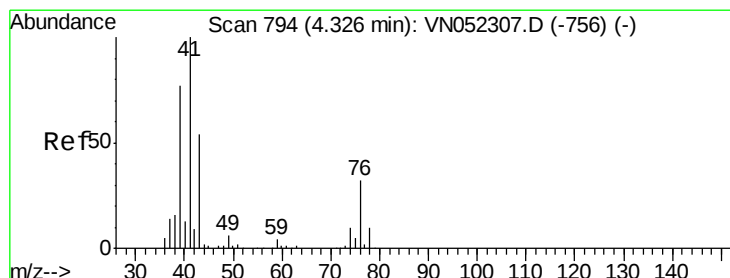
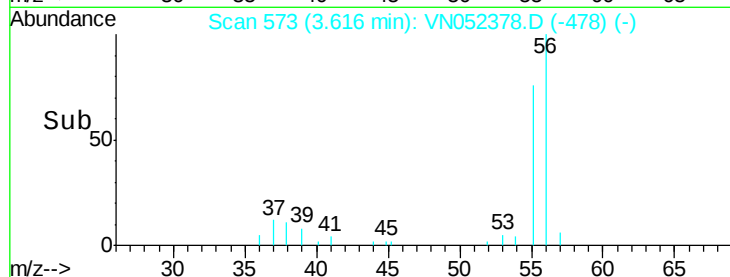
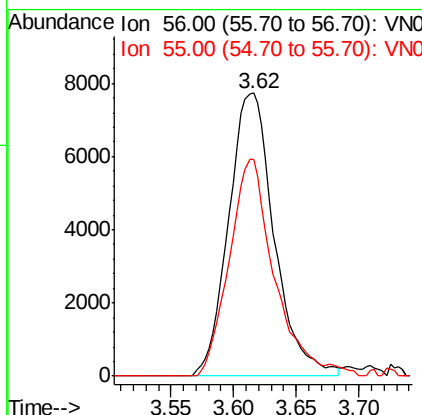
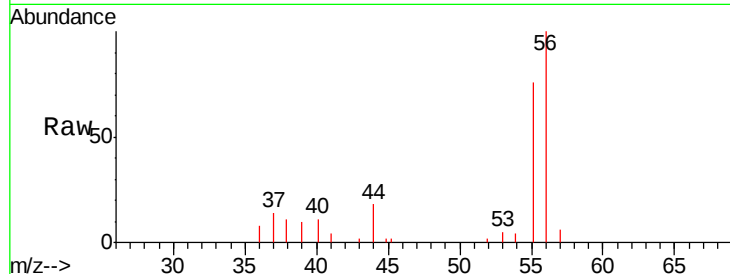
#13
Acrolein
Concen: 72.86 ug/l
RT: 3.62 min Scan# 573
Delta R.T. 0.01 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS01

Tgt Ion: 56 Resp: 19544
Ion Ratio Lower Upper
56 100
55 75.9 57.6 86.4

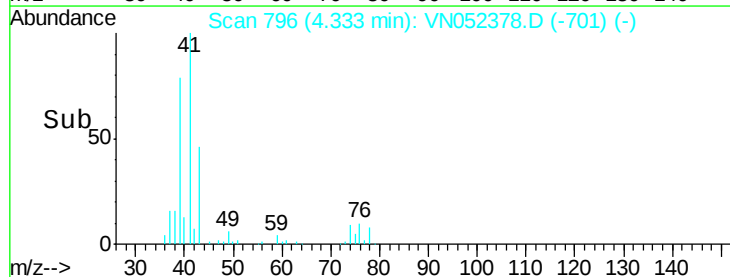
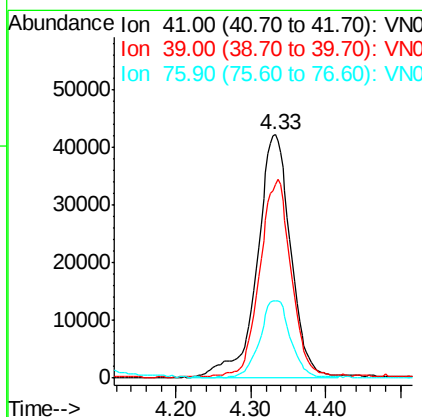
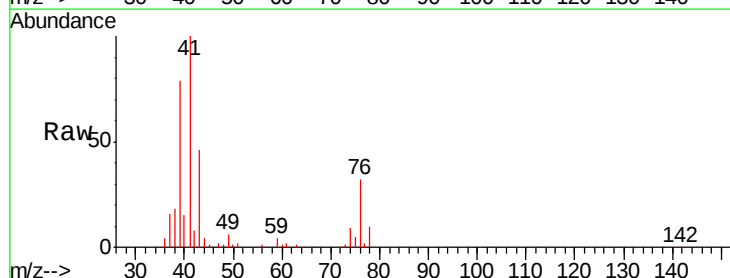
Manual Integrations
APPROVED

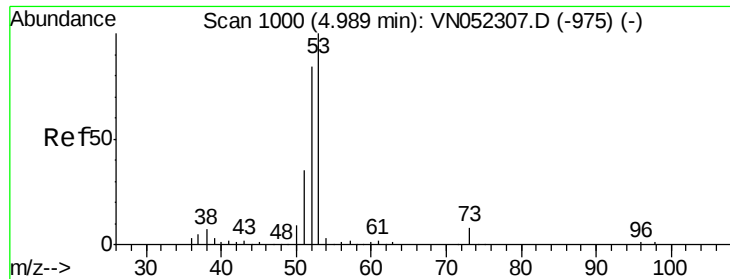
MMDadoda
11/20/2018 11:39:12 AM



#14
Allyl chloride
Concen: 20.15 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Tgt Ion: 41 Resp: 132223
Ion Ratio Lower Upper
41 100
39 75.2 59.1 88.7
76 28.9 24.1 36.1





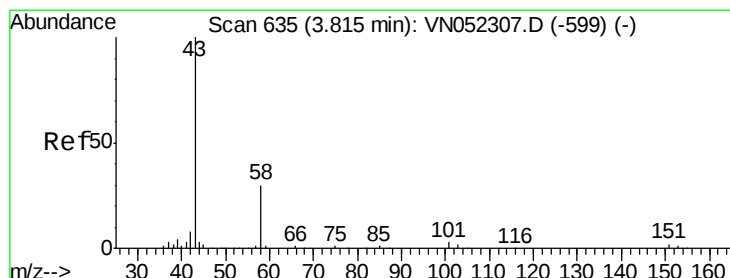
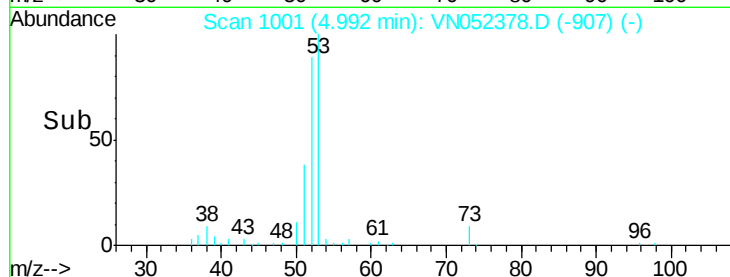
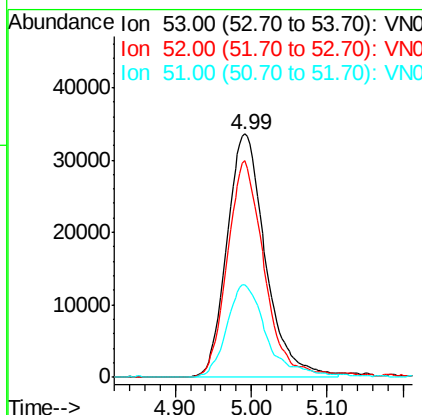
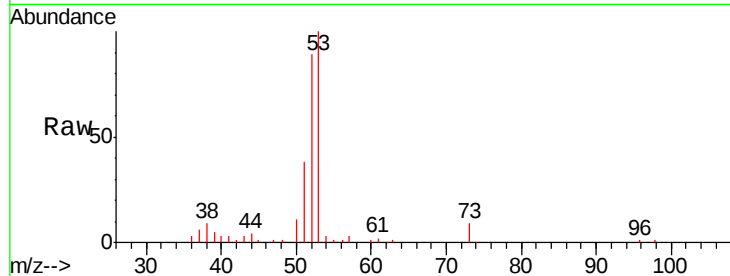
#15
 Acrylonitrile
 Concen: 89.63 ug/l
 RT: 4.99 min Scan# 1001
 Delta R.T. 0.00 min
 Lab File: VN052378.D
 Acq: 19 Nov 2018 11:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1119WBS01

Tgt Ion	Ratio	Lower	Upper
53	100		
52	84.1	67.5	101.3
51	36.8	29.9	44.9

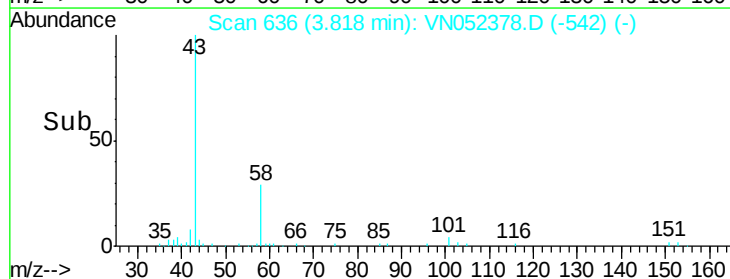
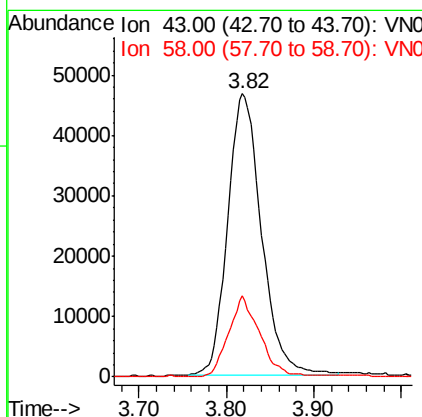
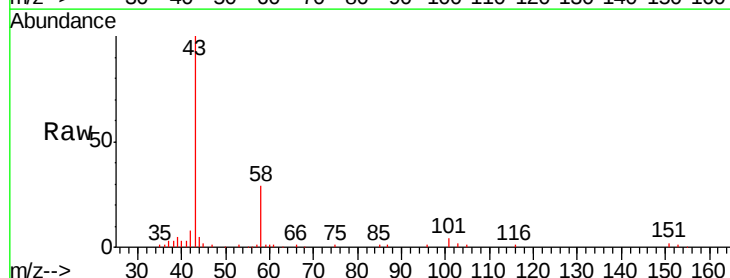
Manual Integrations
 APPROVED

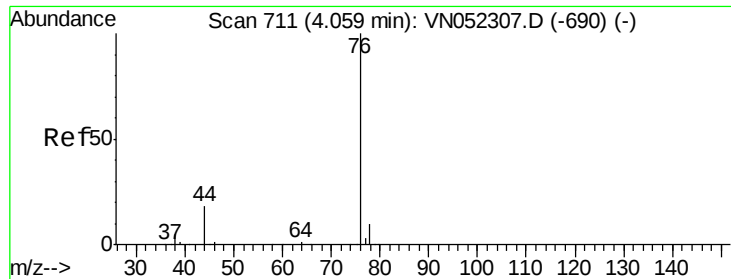
MMDadoda
 11/20/2018 11:39:12 AM



#16
 Acetone
 Concen: 102.65 ug/l
 RT: 3.82 min Scan# 636
 Delta R.T. 0.00 min
 Lab File: VN052378.D
 Acq: 19 Nov 2018 11:36

Tgt Ion	Ratio	Lower	Upper
43	100		
58	28.9	24.2	36.4





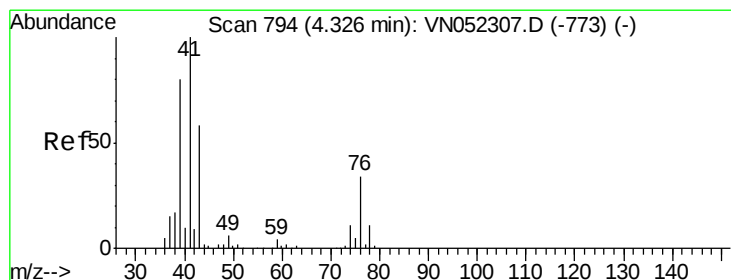
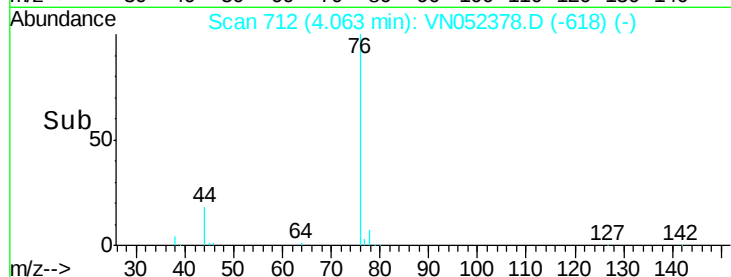
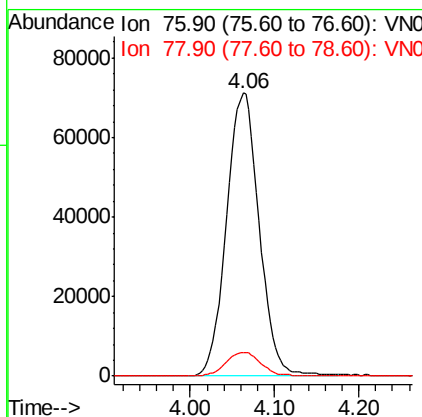
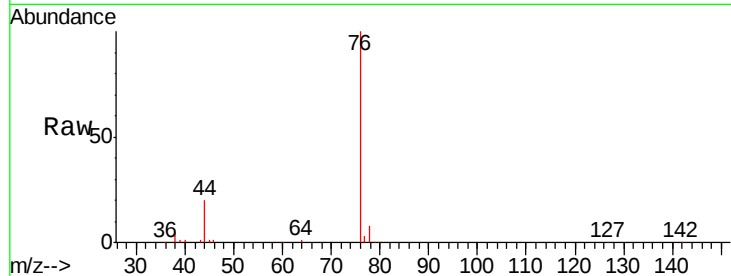
#17
Carbon Disulfide
Concen: 21.00 ug/l
RT: 4.06 min Scan# 712
Delta R.T. 0.00 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS01

Tgt Ion: 76 Resp: 192442
Ion Ratio Lower Upper
76 100
78 8.2 7.7 11.5

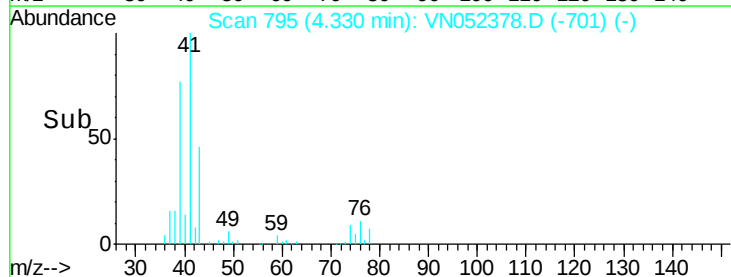
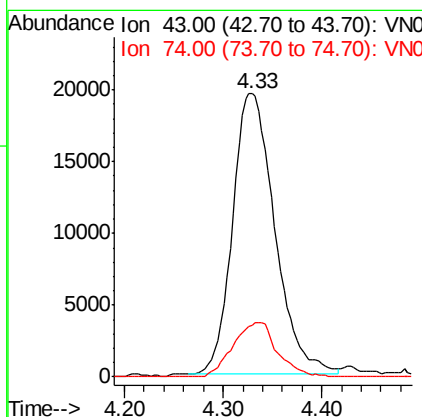
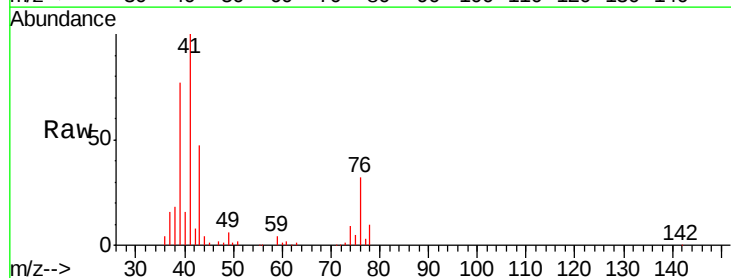
Manual Integrations
APPROVED

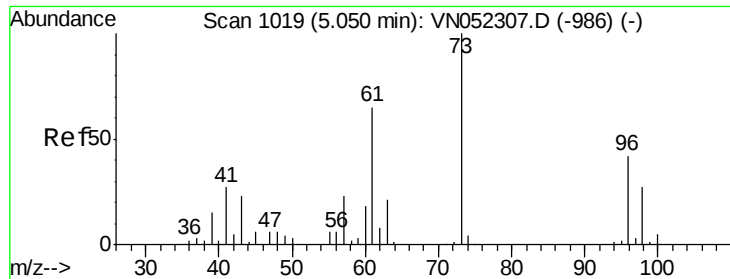
MMDadoda
11/20/2018 11:39:12 AM



#18
Methyl Acetate
Concen: 17.50 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Tgt Ion: 43 Resp: 58249
Ion Ratio Lower Upper
43 100
74 20.3 15.9 23.9





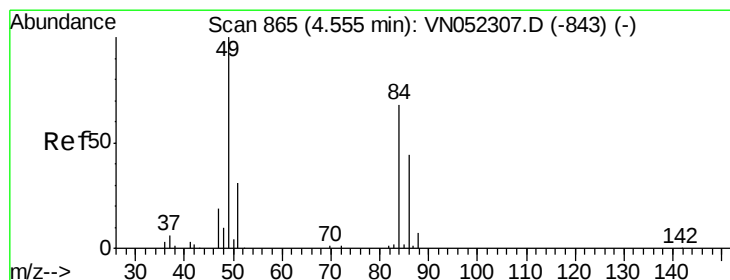
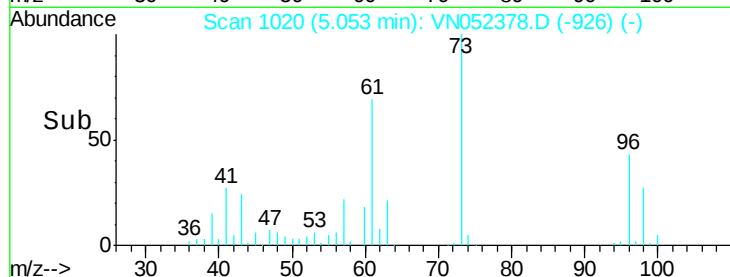
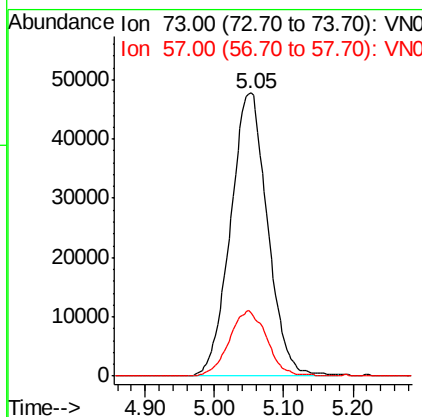
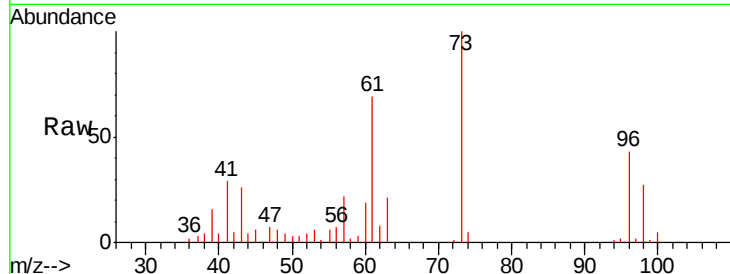
#19
Methyl tert-butyl Ether
Concen: 19.39 ug/l
RT: 5.05 min Scan# 1020
Delta R.T. 0.00 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS01

Tgt Ion: 73 Resp: 178053
Ion Ratio Lower Upper
73 100
57 22.3 18.7 28.1

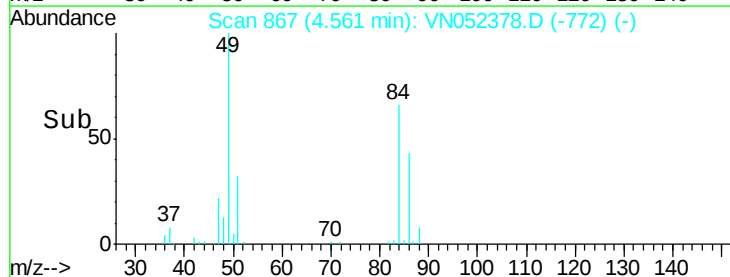
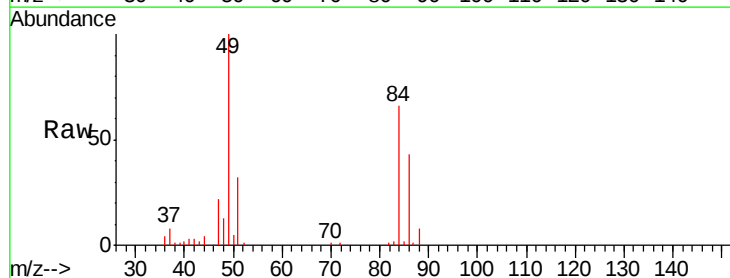
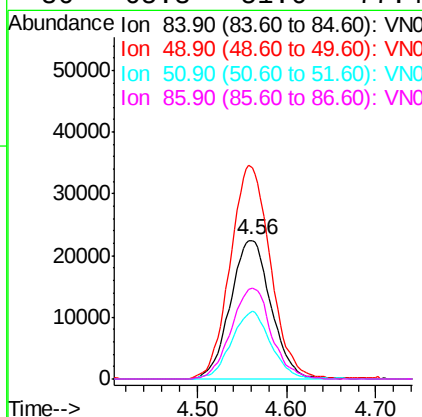
Manual Integrations
APPROVED

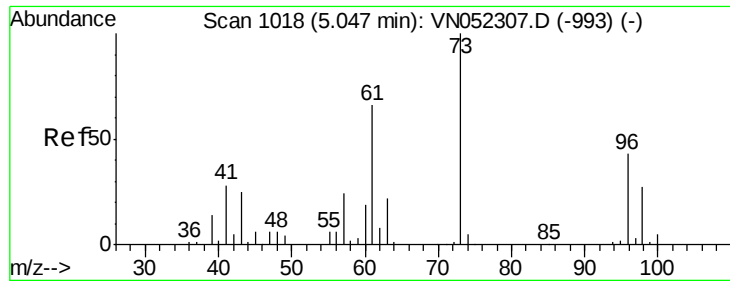
MMDadoda
11/20/2018 11:39:12 AM



#20
Methylene Chloride
Concen: 18.88 ug/l
RT: 4.56 min Scan# 867
Delta R.T. 0.01 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Tgt Ion: 84 Resp: 70936
Ion Ratio Lower Upper
84 100
49 152.2 118.2 177.2
51 48.4 36.1 54.1
86 65.3 51.6 77.4





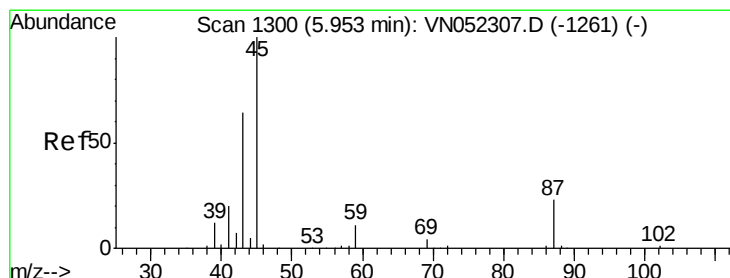
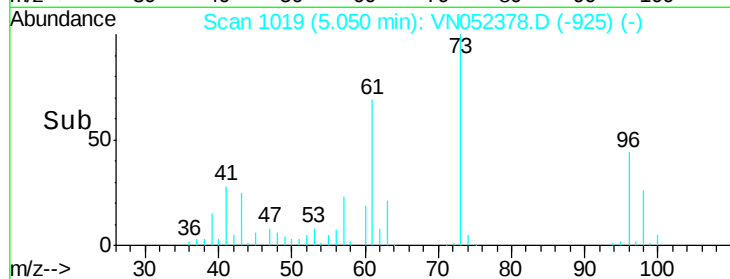
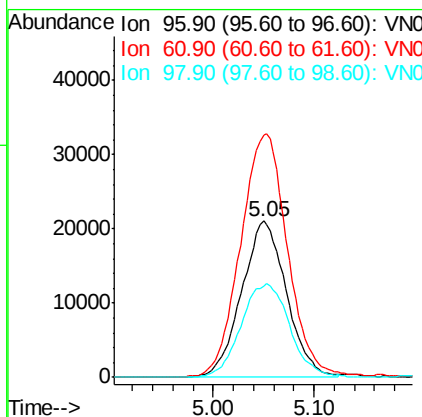
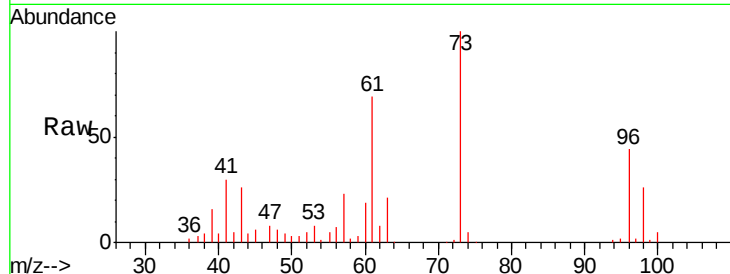
#21
trans-1,2-Dichloroethene
Concen: 18.89 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS01

Tgt Ion: 96 Resp: 64982
Ion Ratio Lower Upper
96 100
61 154.4 123.6 185.4
98 58.6 50.7 76.1

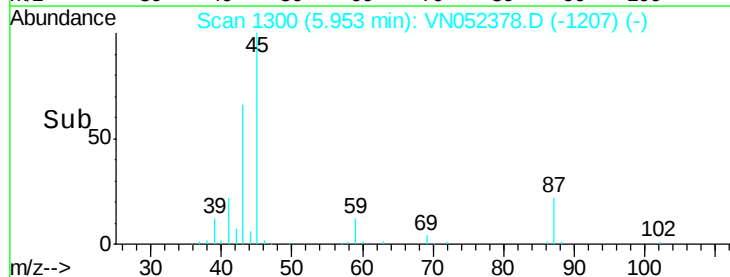
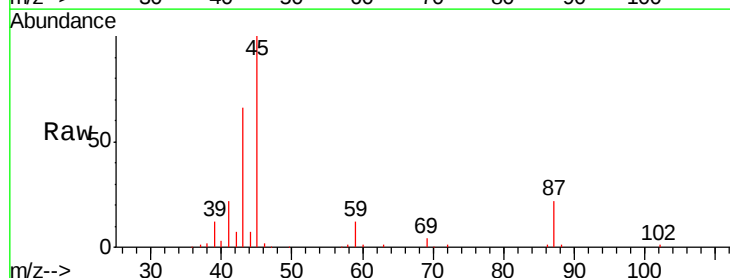
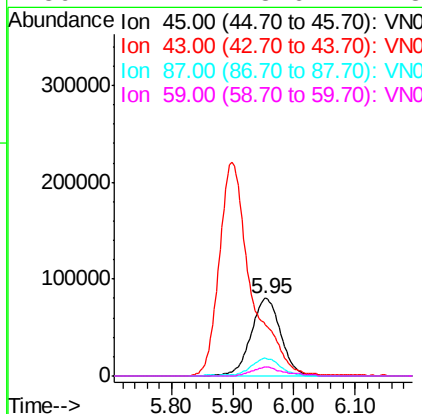
Manual Integrations
APPROVED

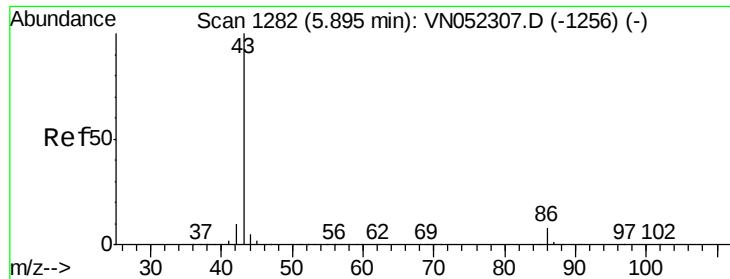
MMDadoda
11/20/2018 11:39:12 AM



#22
Diisopropyl ether
Concen: 20.42 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. -0.00 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Tgt Ion: 45 Resp: 273408
Ion Ratio Lower Upper
45 100
43 65.6 51.4 77.2
87 22.5 18.8 28.2
59 11.7 8.6 12.8





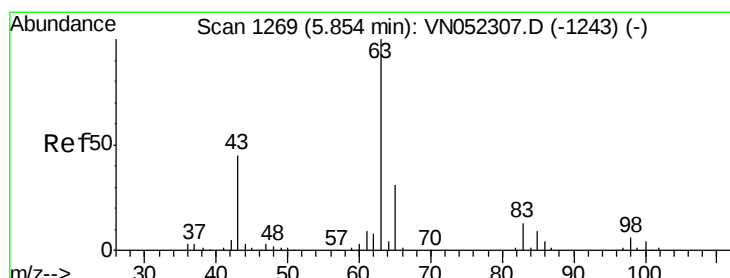
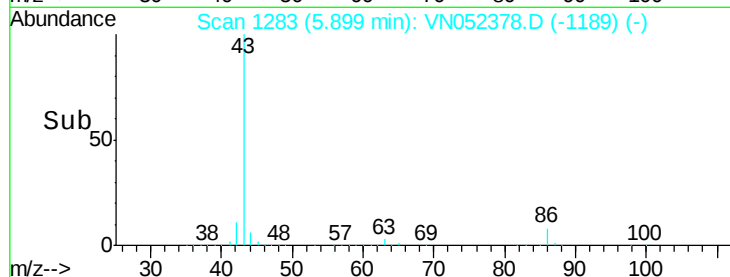
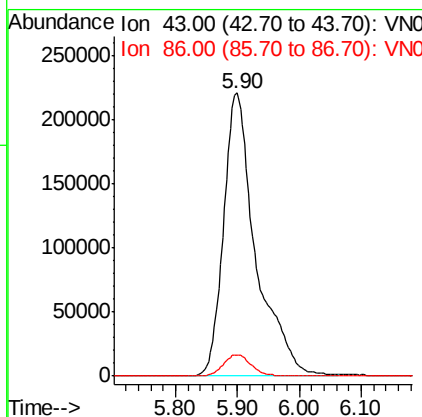
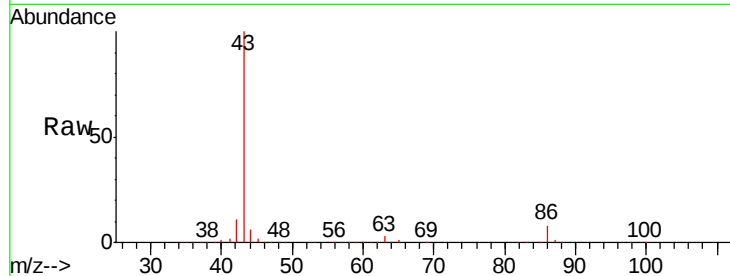
#23
 Vinyl Acetate
 Concen: 88.17 ug/l
 RT: 5.90 min Scan# 1283
 Delta R.T. 0.00 min
 Lab File: VN052378.D
 Acq: 19 Nov 2018 11:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1119WBS01

Tgt Ion: 43 Resp: 800685
 Ion Ratio Lower Upper
 43 100
 86 7.6 6.5 9.7

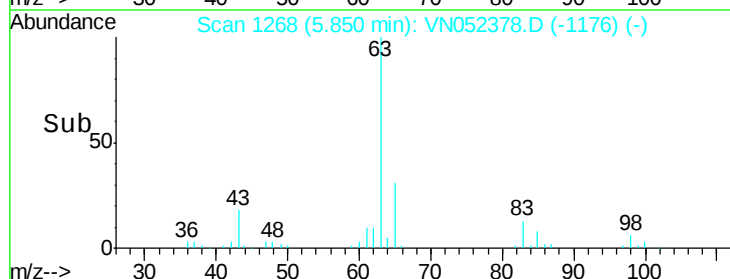
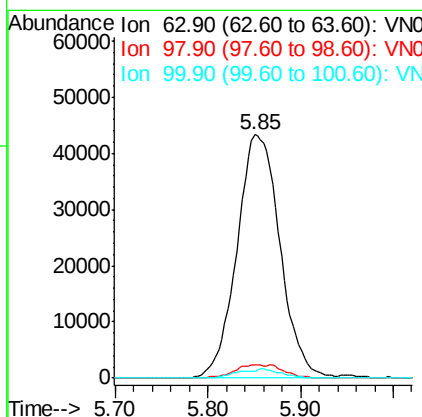
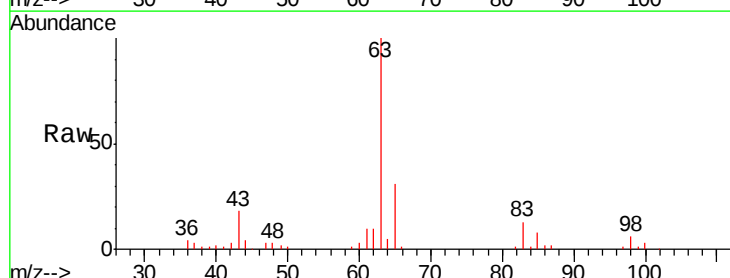
Manual Integrations
 APPROVED

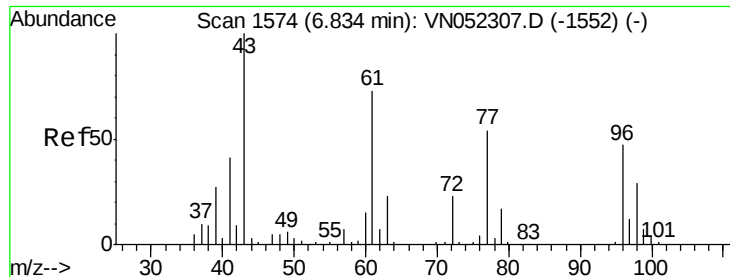
MMDadoda
 11/20/2018 11:39:12 AM



#24
 1,1-Dichloroethane
 Concen: 19.47 ug/l
 RT: 5.85 min Scan# 1268
 Delta R.T. -0.00 min
 Lab File: VN052378.D
 Acq: 19 Nov 2018 11:36

Tgt Ion: 63 Resp: 139788
 Ion Ratio Lower Upper
 63 100
 98 5.7 2.9 8.6
 100 2.9 1.9 5.7





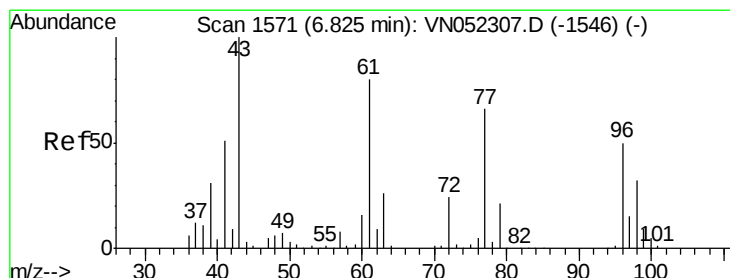
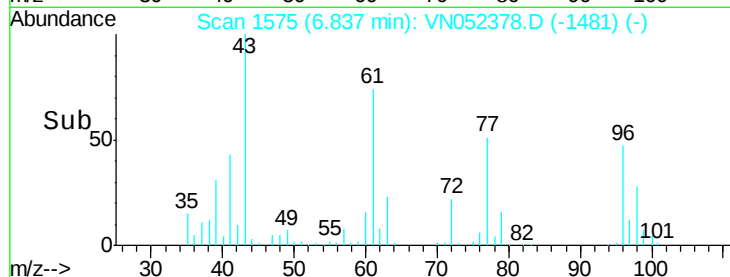
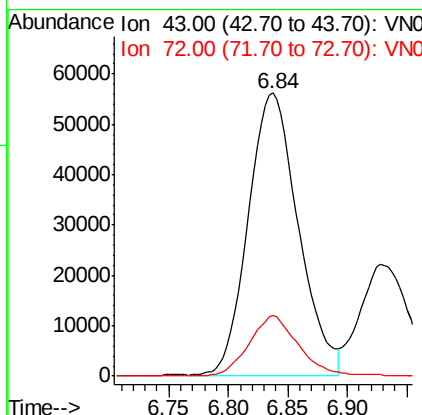
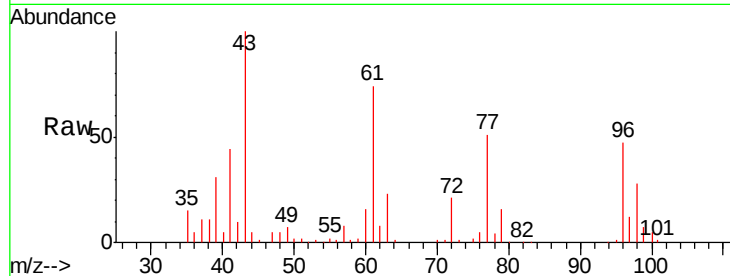
#25
2-Butanone
Concen: 95.92 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.00 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS01

Tgt Ion: 43 Resp: 162981
Ion Ratio Lower Upper
43 100
72 21.6 18.6 27.8

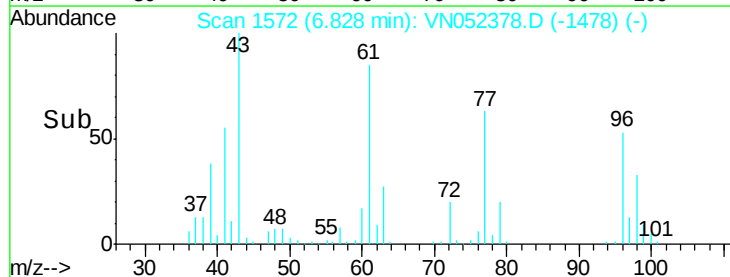
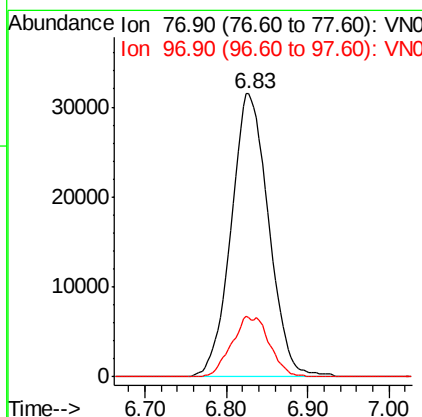
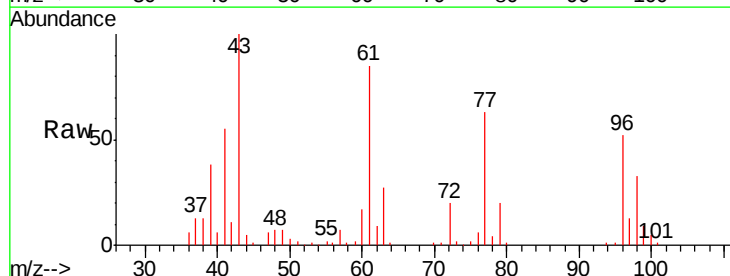
Manual Integrations
APPROVED

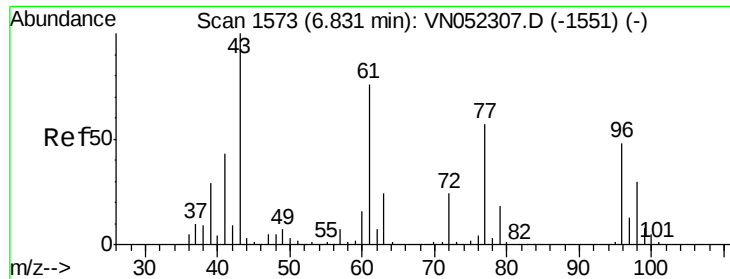
MMDadoda
11/20/2018 11:39:12 AM



#26
2,2-Dichloropropane
Concen: 19.05 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Tgt Ion: 77 Resp: 100547
Ion Ratio Lower Upper
77 100
97 21.5 11.1 33.1





#27

cis-1,2-Dichloroethene

Concen: 19.82 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VN052378.D

Acq: 19 Nov 2018 11:36

Instrument :

MSVOA_N

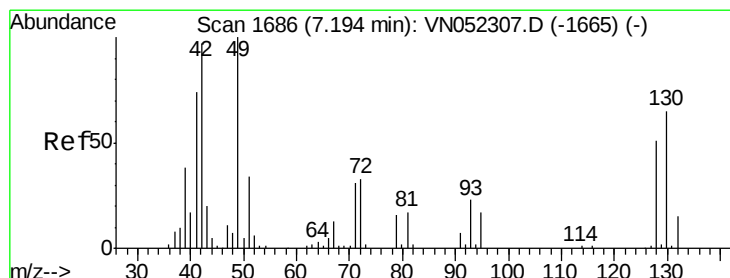
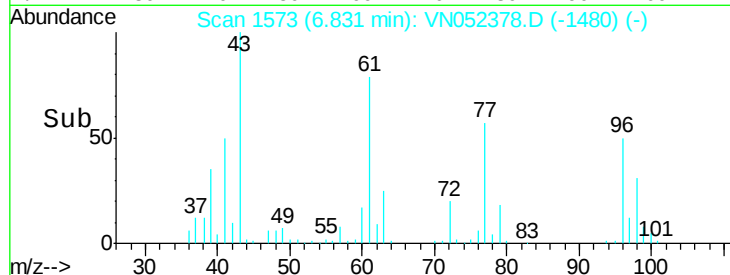
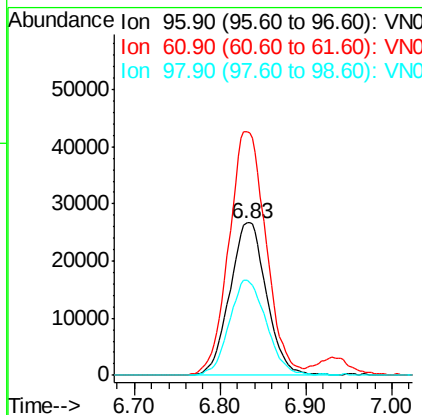
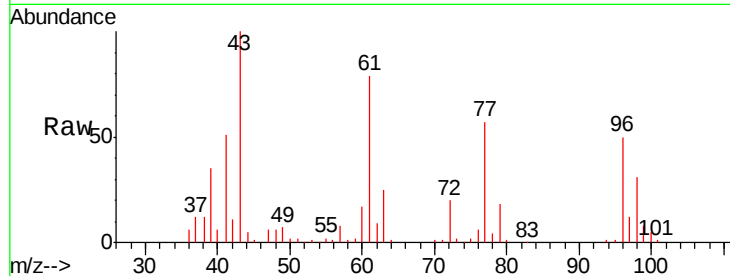
ClientSampleId :

VN1119WBS01

Tgt Ion:	96	Resp:	79364
Ion	Ratio	Lower	Upper
96	100		
61	160.7	0.0	316.8
98	62.8	0.0	126.6

Manual Integrations
APPROVED

MMDadoda
11/20/2018 11:39:12 AM



#28

Bromochloromethane

Concen: 20.82 ug/l

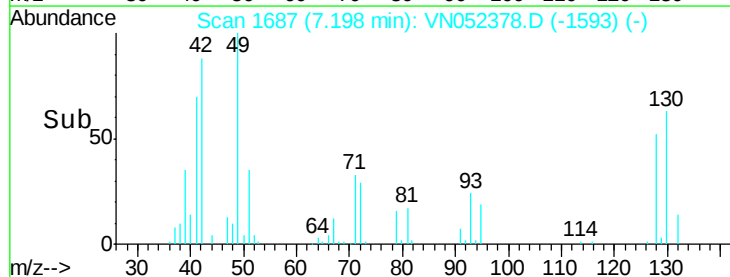
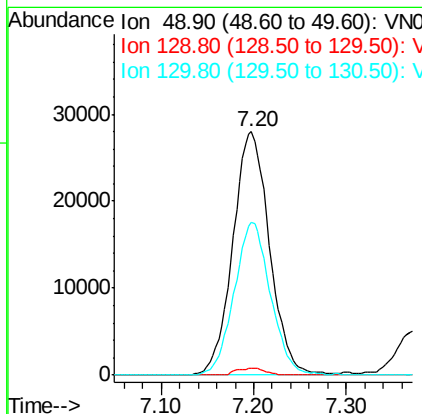
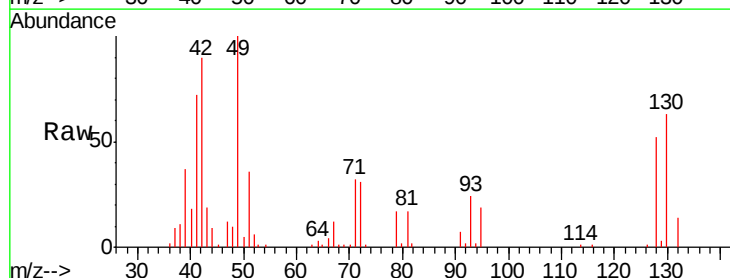
RT: 7.20 min Scan# 1687

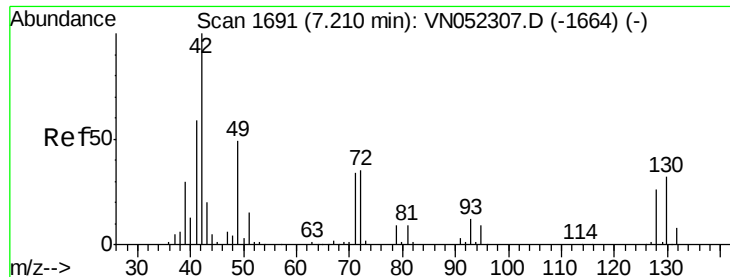
Delta R.T. 0.00 min

Lab File: VN052378.D

Acq: 19 Nov 2018 11:36

Tgt Ion:	49	Resp:	76844
Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	3.0
130	62.0	50.4	75.6





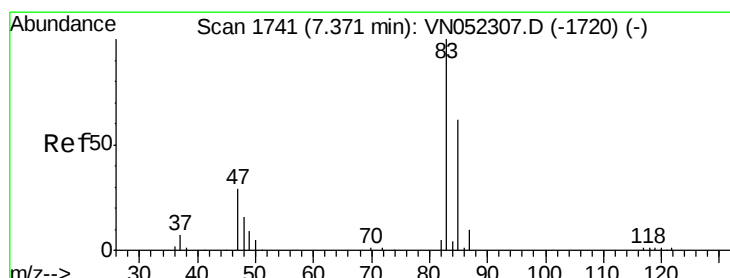
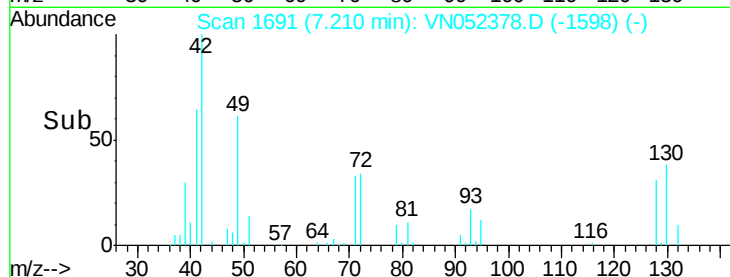
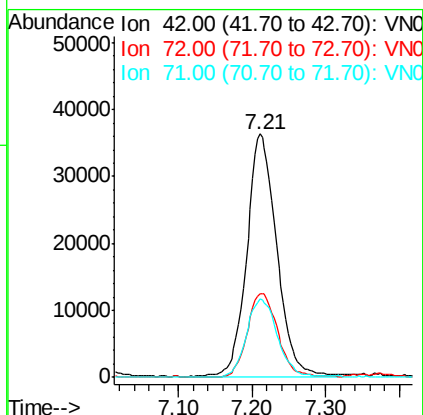
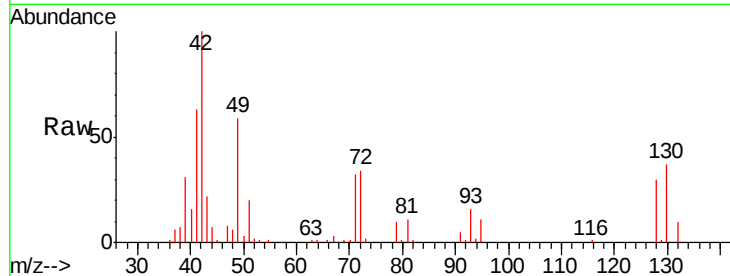
#29
Tetrahydrofuran
Concen: 93.00 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. -0.00 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS01

Tgt Ion	Ratio	Lower	Upper
42	100		
72	34.8	28.6	42.8
71	33.2	26.7	40.1

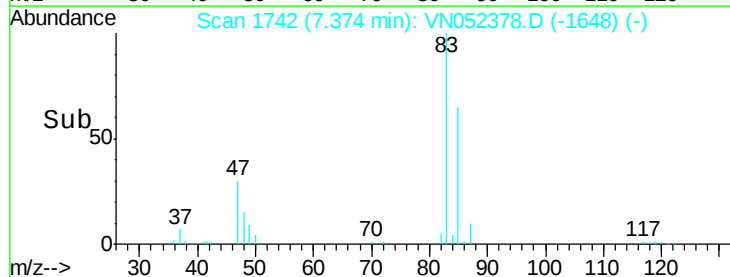
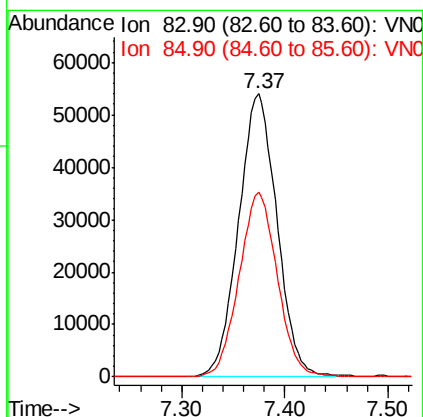
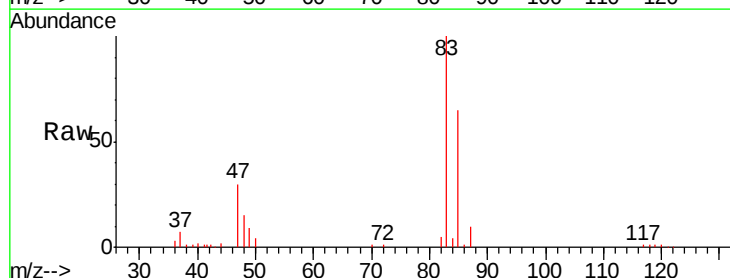
Manual Integrations
APPROVED

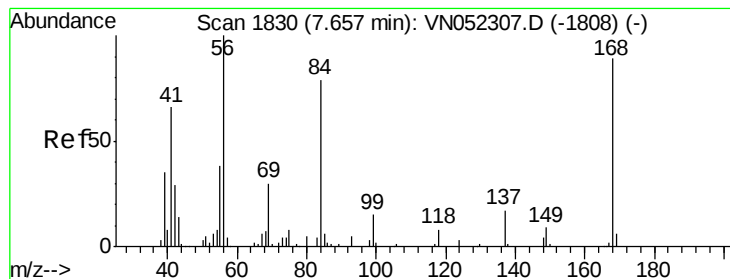
MMDadoda
11/20/2018 11:39:12 AM



#30
Chloroform
Concen: 20.44 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.2	49.4	74.2





#31

Cyclohexane

Concen: 20.22 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN052378.D

Acq: 19 Nov 2018 11:36

Instrument :

MSVOA_N

ClientSampleId :

VN1119WBS01

Tgt Ion: 56 Resp: 138952

Ion Ratio Lower Upper

56 100

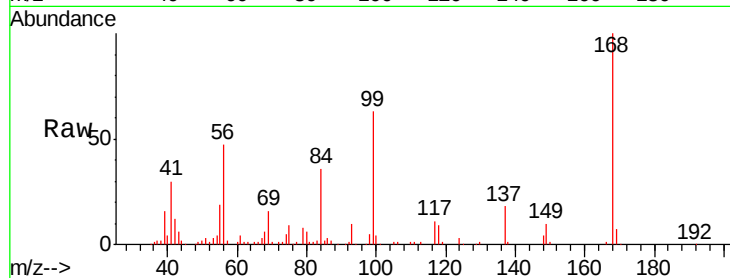
69 33.4 23.8 35.8

84 74.5 63.0 94.6

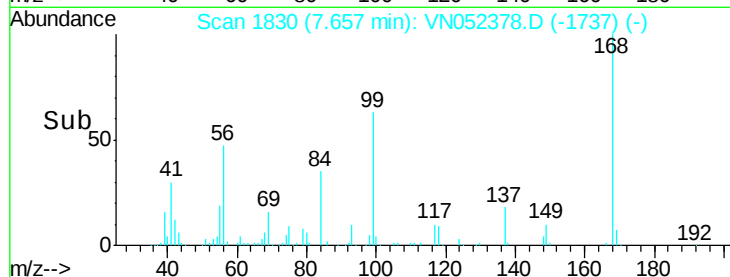
Manual Integrations
APPROVED

MMDadoda

11/20/2018 11:39:12 AM



Abundance Ion 56.00 (55.70 to 56.70): VN052378.D (-1737) (-)



Ion 69.00 (68.70 to 69.70): VN052378.D (-1737) (-)

Ion 84.00 (83.70 to 84.70): VN052378.D (-1737) (-)

Time-->

7.55 7.60 7.65 7.70

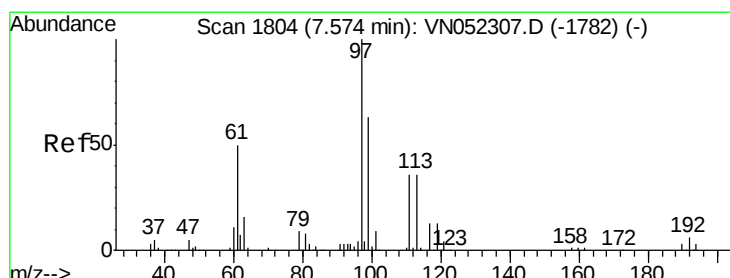
80000

60000

40000

20000

0



#32

1,1,1-Trichloroethane

Concen: 19.87 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. -0.00 min

Lab File: VN052378.D

Acq: 19 Nov 2018 11:36

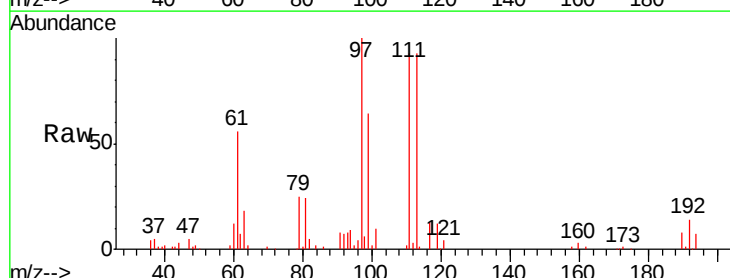
Tgt Ion: 97 Resp: 115804

Ion Ratio Lower Upper

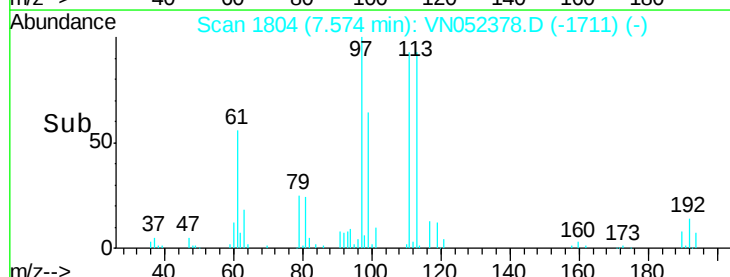
97 100

99 62.7 50.2 75.2

61 54.5 40.2 60.4



Abundance Ion 96.90 (96.60 to 97.60): VN052378.D (-1711) (-)



Ion 98.90 (98.60 to 99.60): VN052378.D (-1711) (-)

Ion 60.90 (60.60 to 61.60): VN052378.D (-1711) (-)

Time-->

7.50 7.55 7.60 7.65

100000

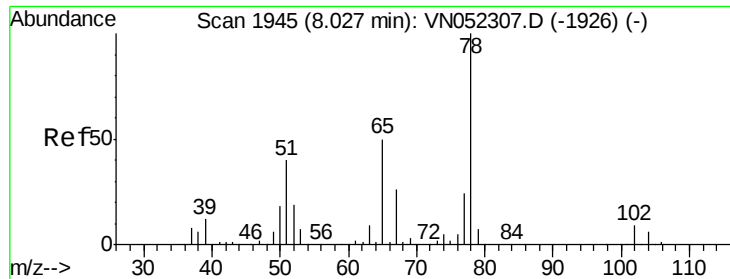
80000

60000

40000

20000

0



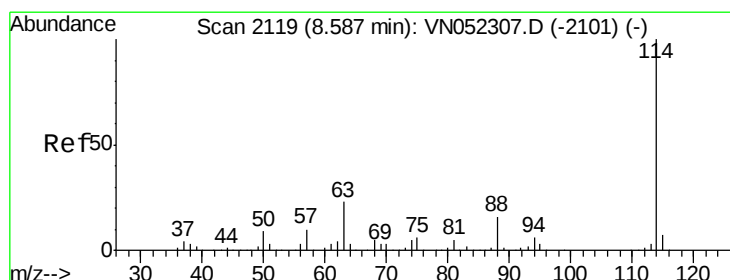
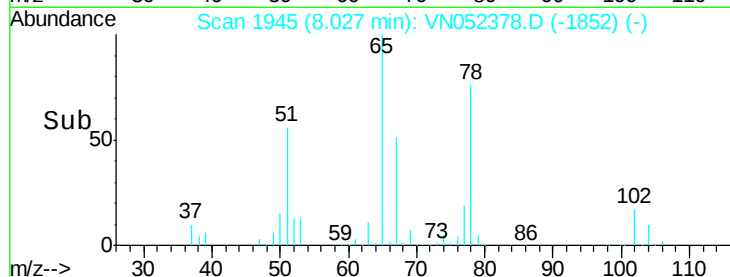
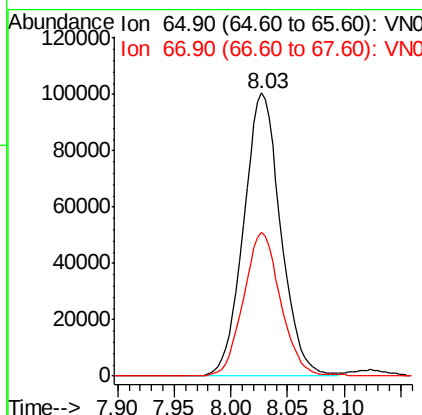
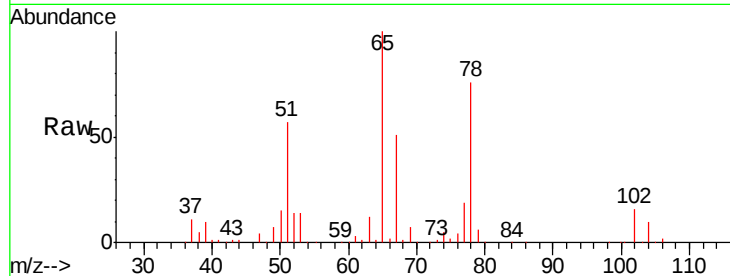
#33
 1,2-Dichloroethane-d4
 Concen: 19.87 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052378.D
 Acq: 19 Nov 2018 11:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1119WBS01

Tgt Ion	Ratio	Resp	Lower	Upper
65	100	229056		
67	50.8	0.0	105.2	

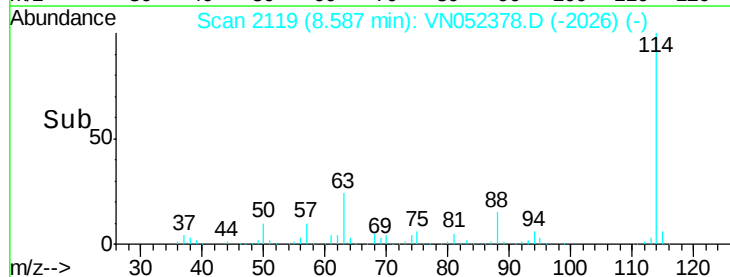
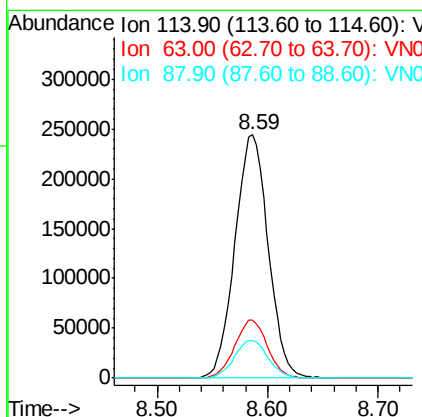
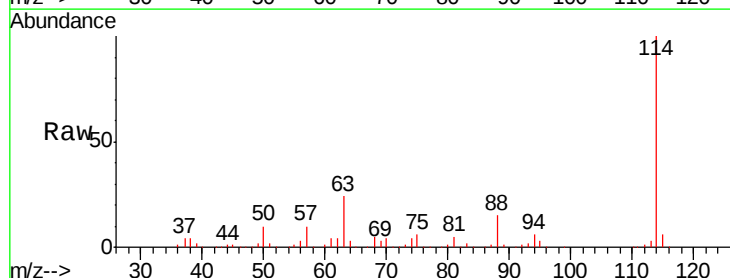
Manual Integrations
 APPROVED

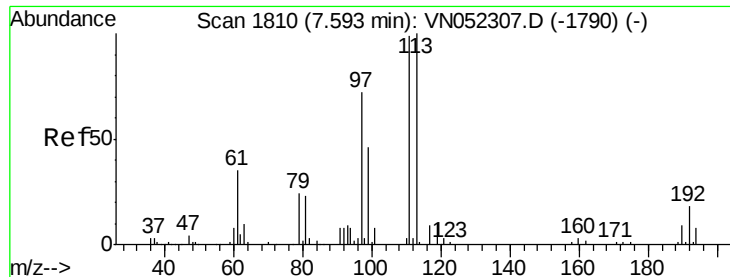
MMDadoda
 11/20/2018 11:39:12 AM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052378.D
 Acq: 19 Nov 2018 11:36

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	509973		
63	23.8	0.0	45.4	
88	15.4	0.0	31.2	





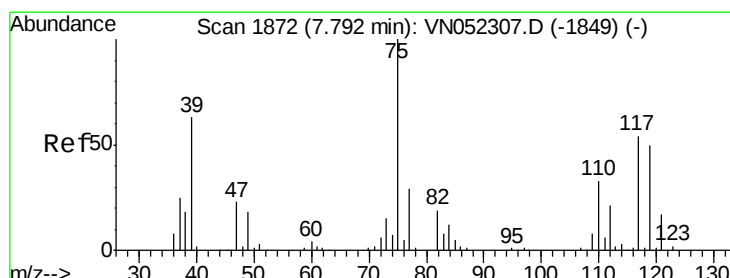
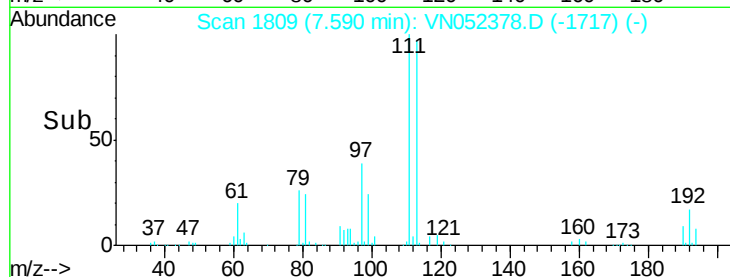
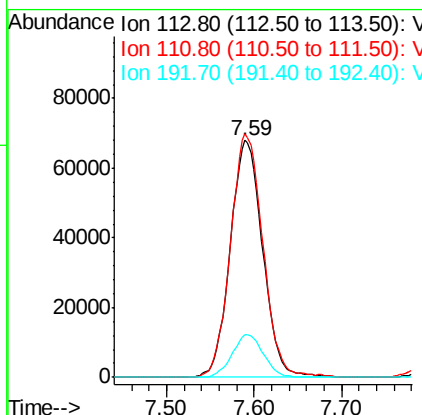
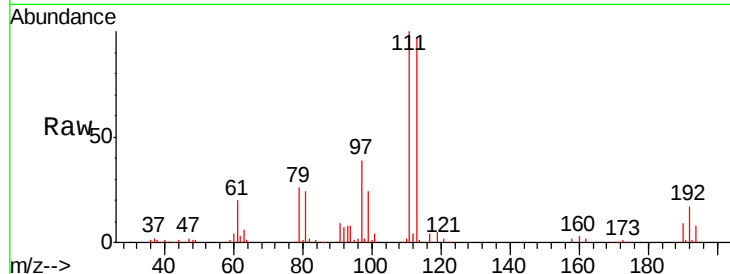
#35
 Dibromofluoromethane
 Concen: 50.00 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN052378.D
 Acq: 19 Nov 2018 11:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1119WBS01

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	174770		
111	102.9	81.0	121.6	
192	17.3	13.8	20.6	

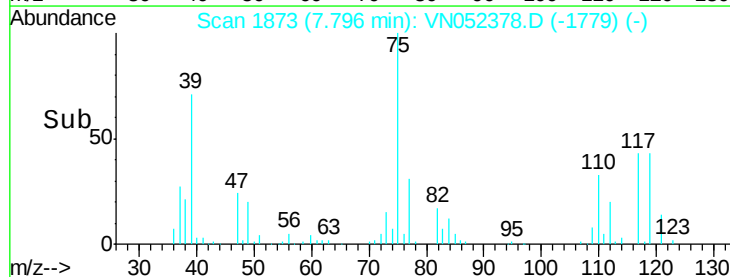
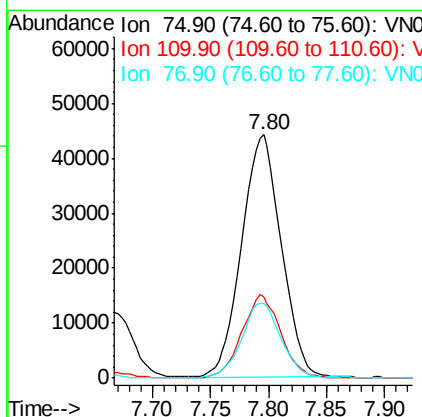
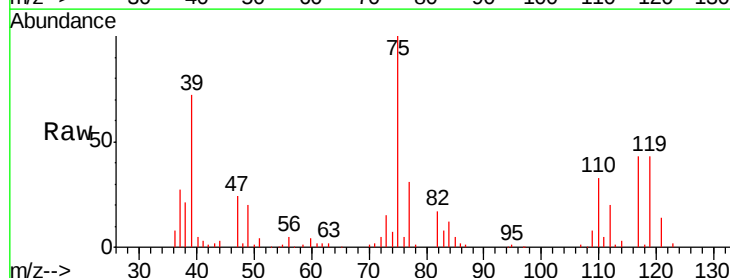
Manual Integrations
 APPROVED

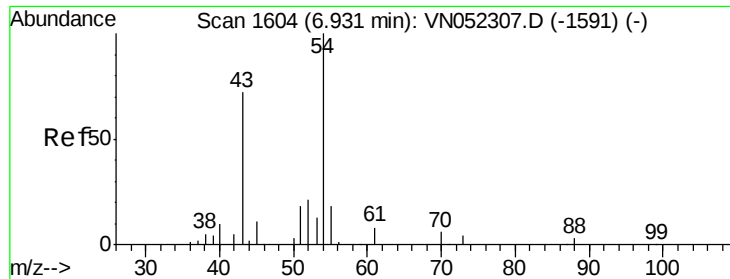
MMDadoda
 11/20/2018 11:39:12 AM



#36
 1,1-Dichloropropene
 Concen: 20.57 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VN052378.D
 Acq: 19 Nov 2018 11:36

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	105149		
110	33.5	16.5	49.5	
77	30.9	24.2	36.2	





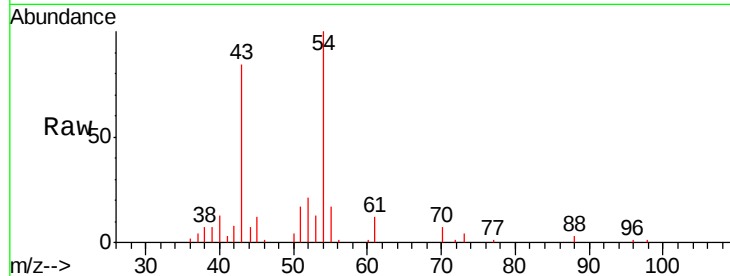
#37
Ethyl Acetate
Concen: 17.26 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS01

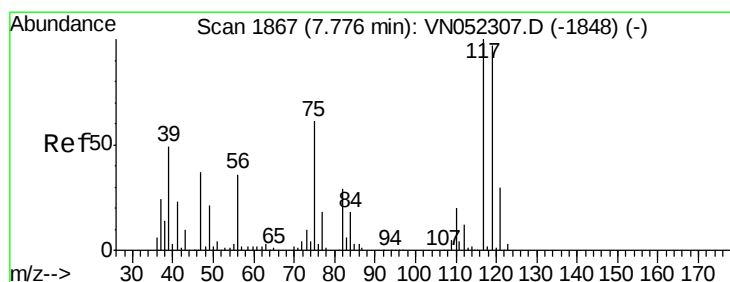
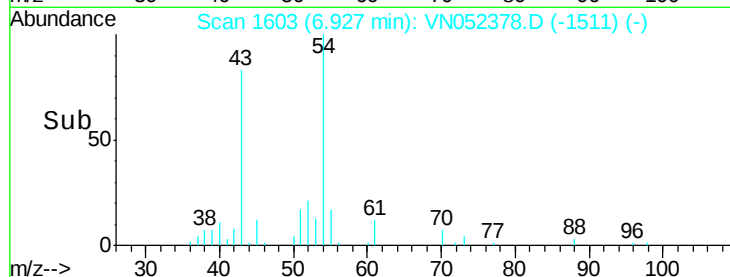
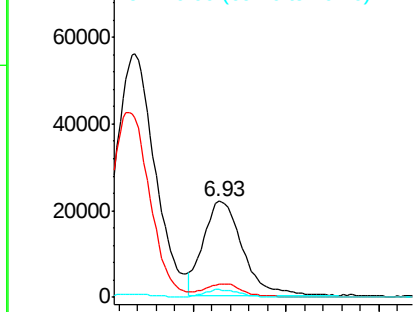
Tgt Ion: 43 Resp: 64018
Ion Ratio Lower Upper
43 100
61 14.1 10.3 15.5
70 7.6 5.6 8.4

Manual Integrations
APPROVED

MMDadoda
11/20/2018 11:39:12 AM

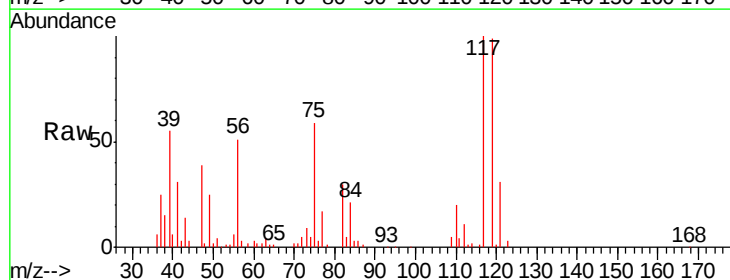


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

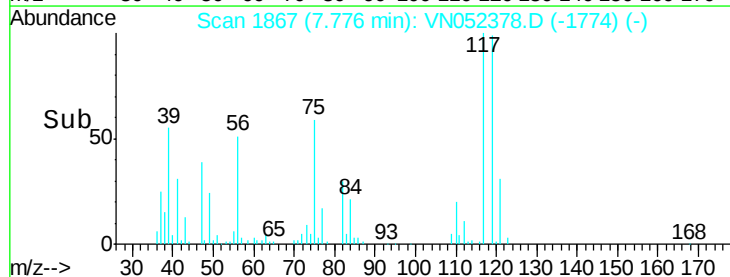
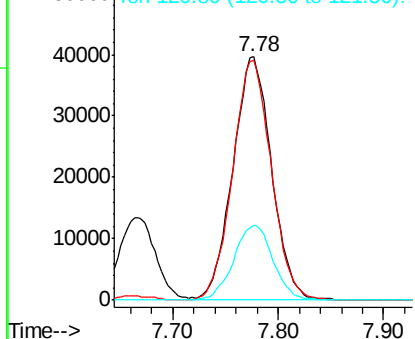


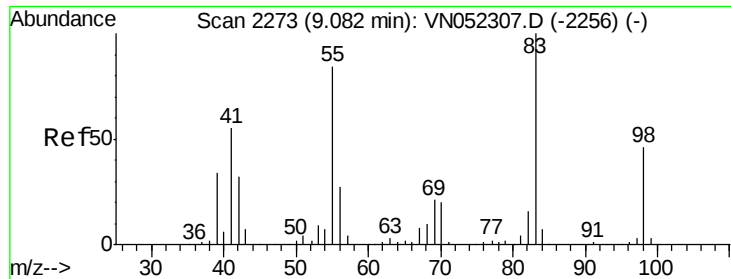
#38
Carbon Tetrachloride
Concen: 21.55 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. -0.00 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Tgt Ion: 117 Resp: 101183
Ion Ratio Lower Upper
117 100
119 98.7 77.4 116.0
121 30.7 24.0 36.0



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V





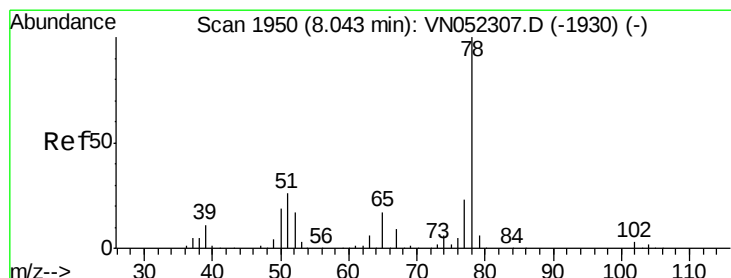
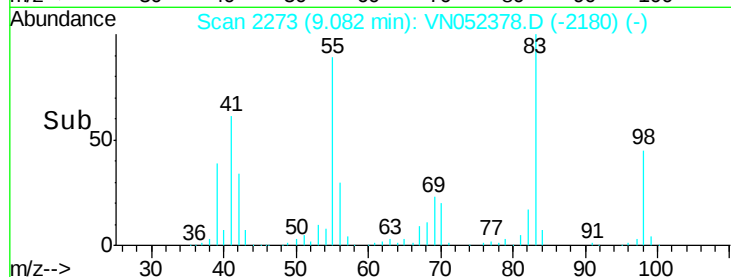
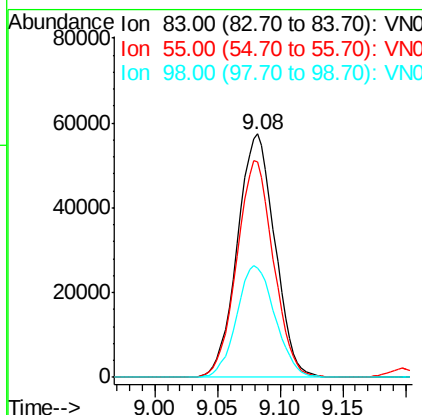
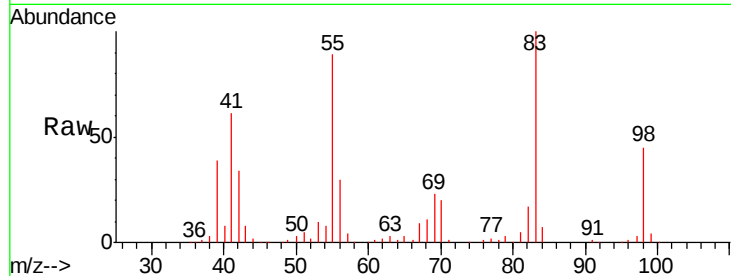
#39
Methylcyclohexane
Concen: 20.46 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS01

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	119367		
55	88.7	66.8	100.2	
98	44.9	36.4	54.6	

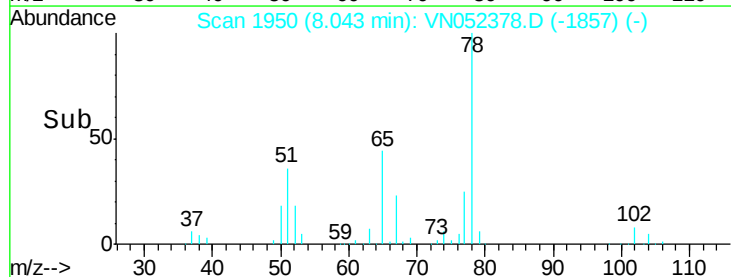
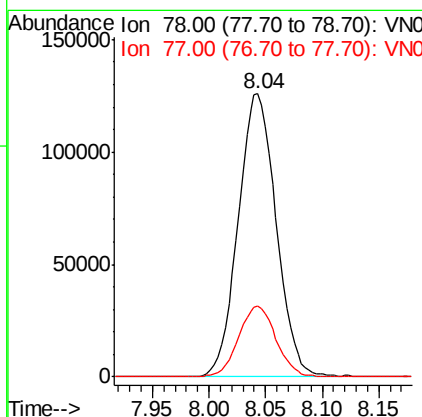
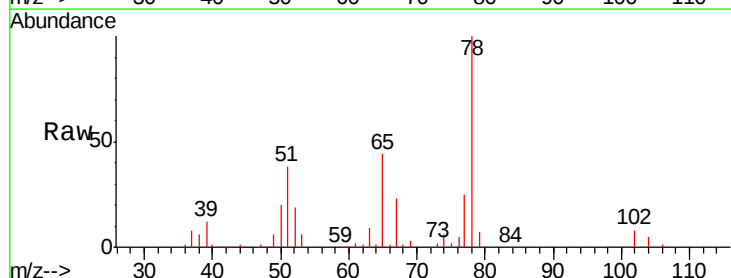
Manual Integrations
APPROVED

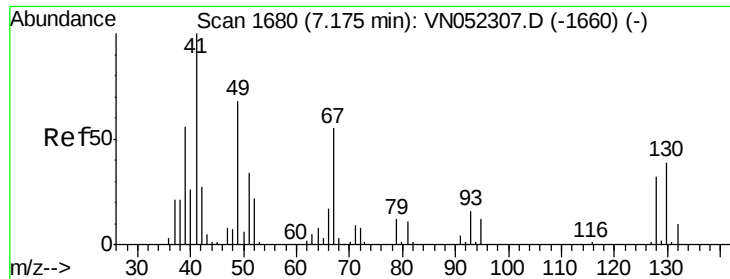
MMDadoda
11/20/2018 11:39:12 AM



#40
Benzene
Concen: 20.17 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. -0.00 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	294457		
77	25.2	18.7	28.1	





#41

Methacrylonitrile

Concen: 20.01 ug/l

RT: 7.17 min Scan# 1679

Delta R.T. -0.00 min

Lab File: VN052378.D

Acq: 19 Nov 2018 11:36

Instrument :

MSVOA_N

ClientSampleId :

VN1119WBS01

Tgt Ion: 41 Resp: 36306

Ion Ratio Lower Upper

41 100

39 63.6 0.0 0.0#

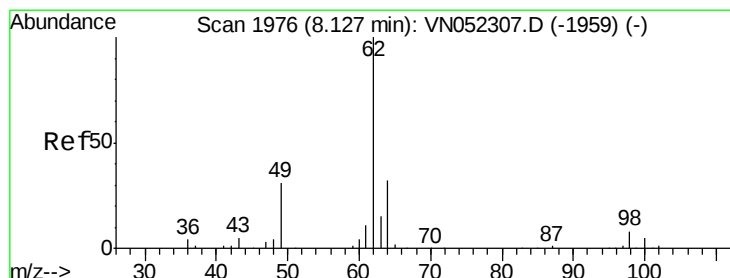
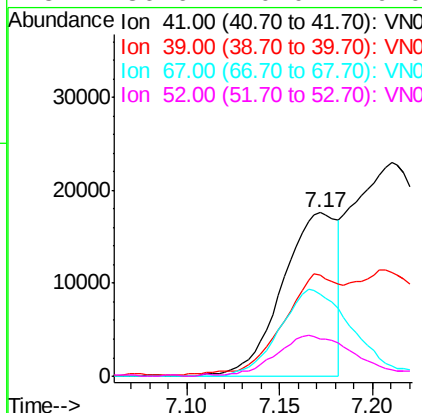
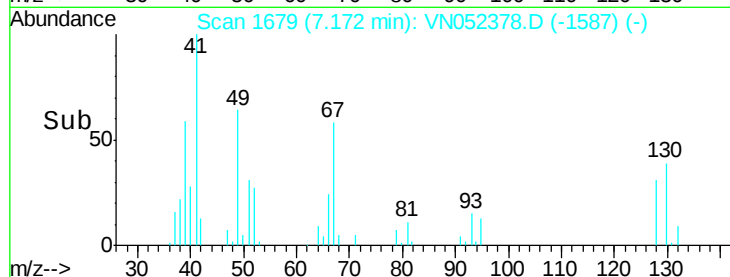
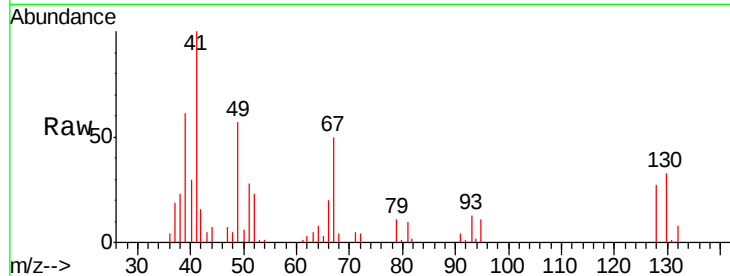
67 71.8 0.0 0.0#

52 36.6 0.0 0.0#

Manual Integrations
APPROVED

MMDadoda

11/20/2018 11:39:12 AM



#42

1,2-Dichloroethane

Concen: 21.68 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN052378.D

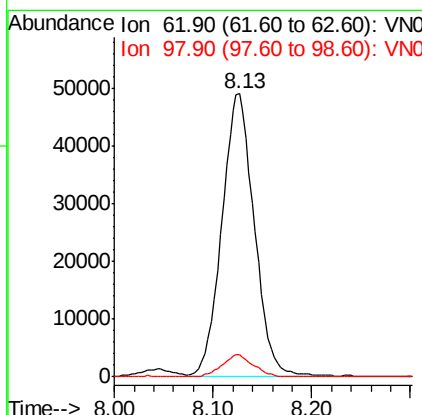
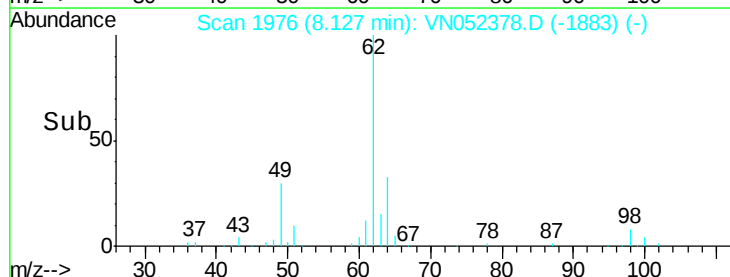
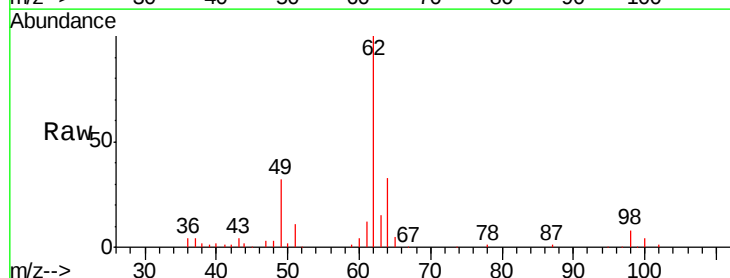
Acq: 19 Nov 2018 11:36

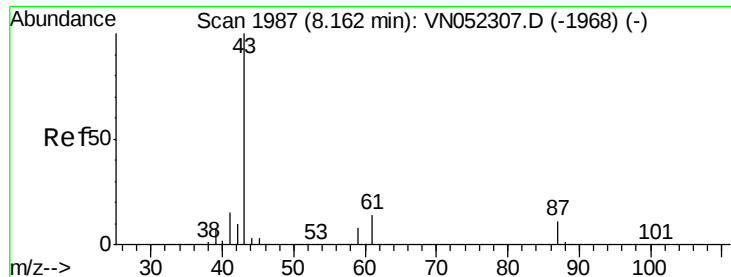
Tgt Ion: 62 Resp: 112869

Ion Ratio Lower Upper

62 100

98 7.4 0.0 15.6





#43

Isopropyl Acetate

Concen: 16.71 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. -0.00 min

Lab File: VN052378.D

Acq: 19 Nov 2018 11:36

Instrument :

MSVOA_N

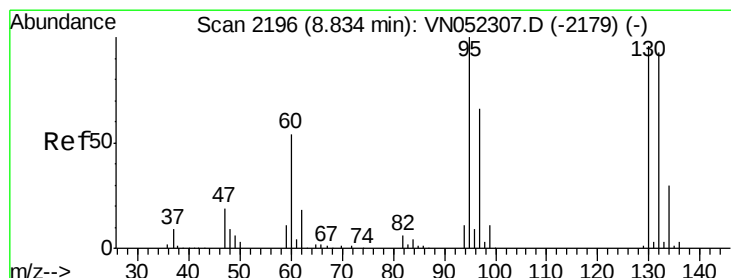
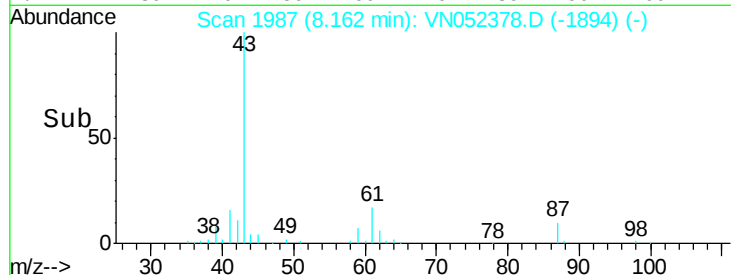
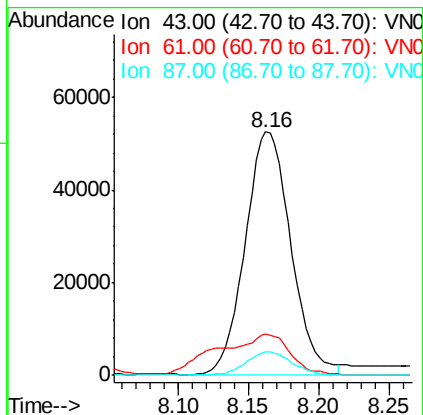
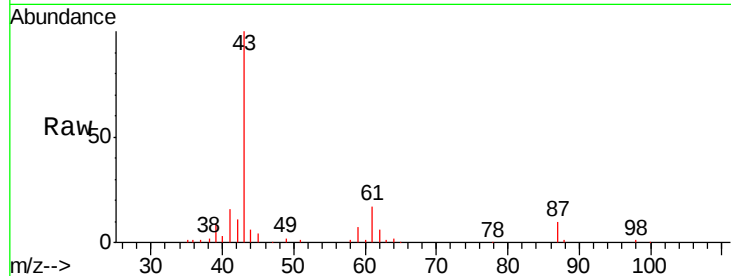
ClientSampleId :

VN1119WBS01

Tgt Ion:	43	Resp:	119640
Ion	Ratio	Lower	Upper
43	100		
61	12.2	12.0	18.0
87	9.7	8.3	12.5

Manual Integrations
APPROVED

MMDadoda
11/20/2018 11:39:12 AM



#44

Trichloroethene

Concen: 20.69 ug/l

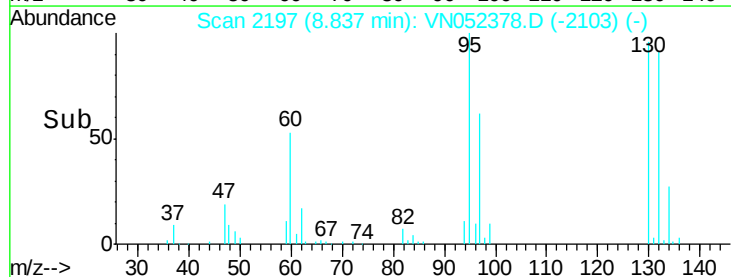
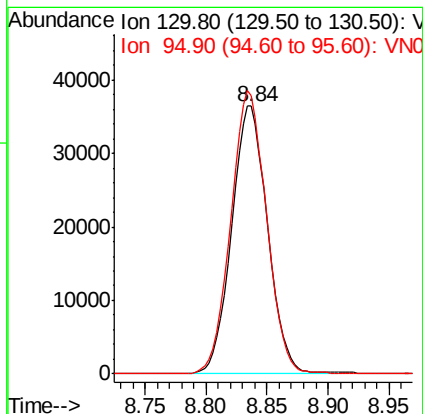
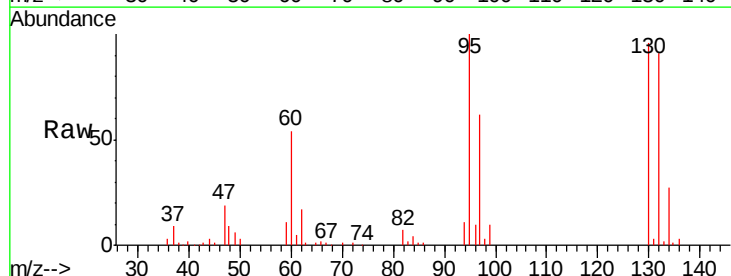
RT: 8.84 min Scan# 2197

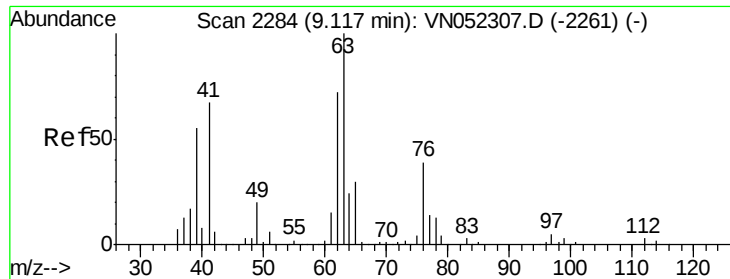
Delta R.T. 0.00 min

Lab File: VN052378.D

Acq: 19 Nov 2018 11:36

Tgt Ion:	130	Resp:	74419
Ion	Ratio	Lower	Upper
130	100		
95	104.0	0.0	208.4





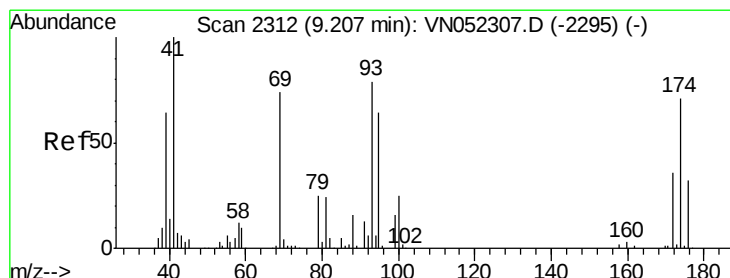
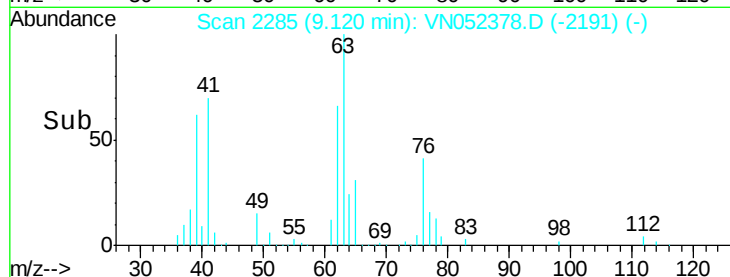
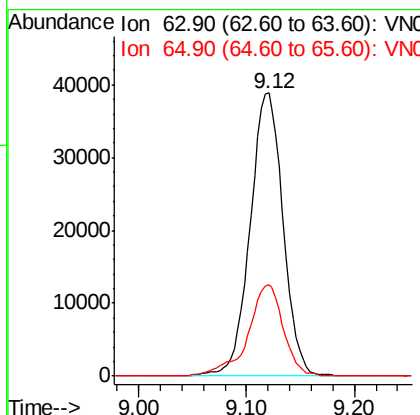
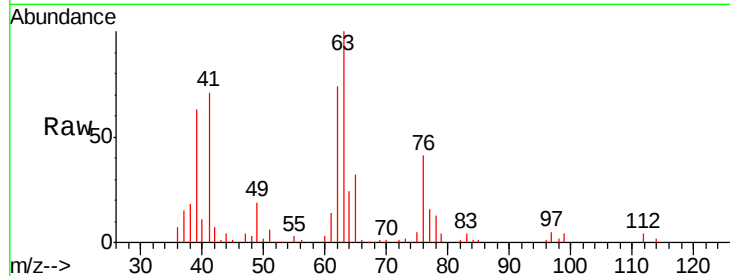
#45
 1,2-Dichloropropane
 Concen: 19.88 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN052378.D
 Acq: 19 Nov 2018 11:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1119WBS01

Tgt Ion: 63 Resp: 82371
 Ion Ratio Lower Upper
 63 100
 65 32.5 24.2 36.4

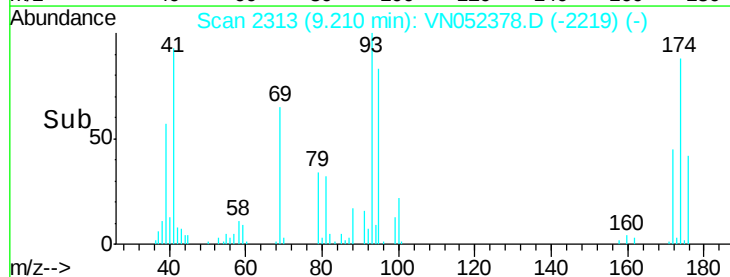
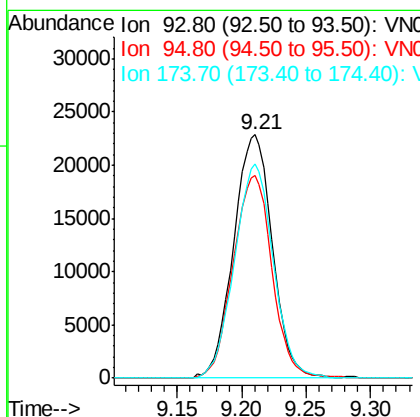
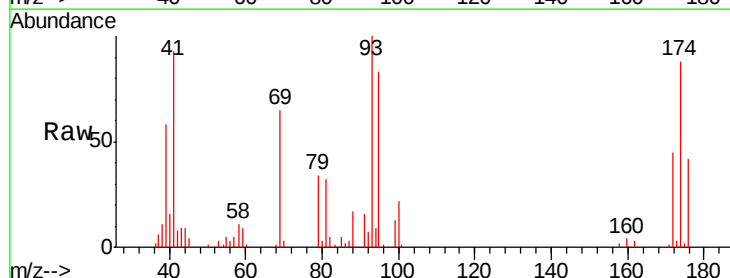
Manual Integrations
 APPROVED

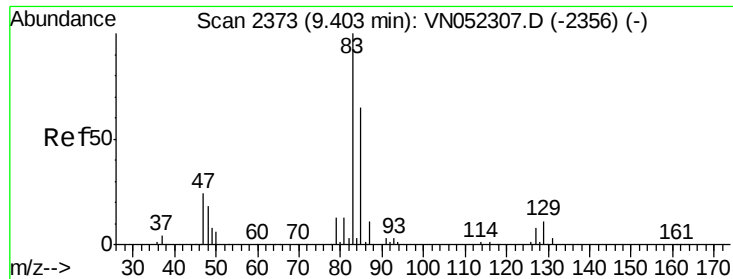
MMDadoda
 11/20/2018 11:39:12 AM



#46
 Dibromomethane
 Concen: 19.89 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN052378.D
 Acq: 19 Nov 2018 11:36

Tgt Ion: 93 Resp: 47709
 Ion Ratio Lower Upper
 93 100
 95 83.7 64.2 96.2
 174 88.4 70.9 106.3





#47

Bromodichloromethane

Concen: 21.85 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN052378.D

Acq: 19 Nov 2018 11:36

Instrument :

MSVOA_N

ClientSampleId :

VN1119WBS01

Tgt Ion: 83 Resp: 107569
Ion Ratio Lower Upper

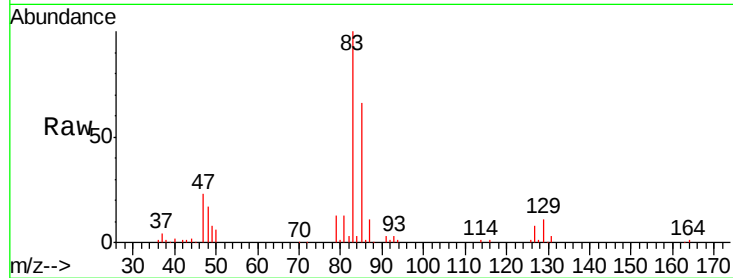
83 100

85 65.8 52.2 78.4

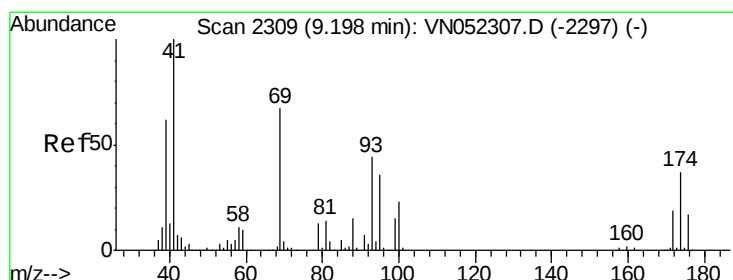
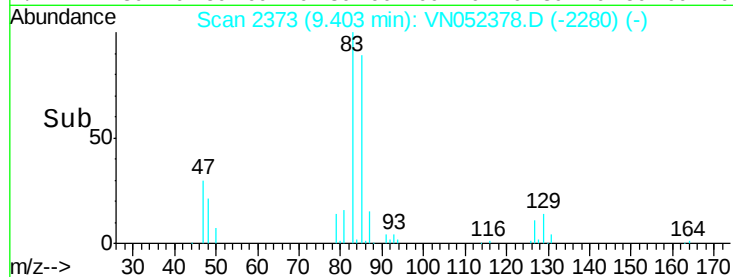
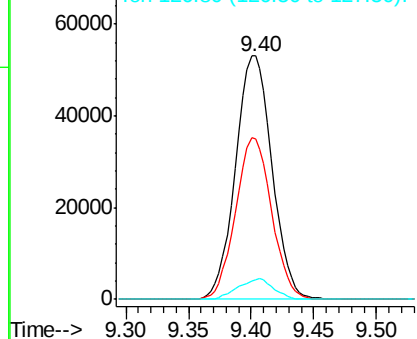
127 8.1 6.7 10.1

Manual Integrations
APPROVED

MMDadoda
11/20/2018 11:39:12 AM



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



#48

Methyl methacrylate

Concen: 16.45 ug/l

RT: 9.20 min Scan# 2309

Delta R.T. -0.00 min

Lab File: VN052378.D

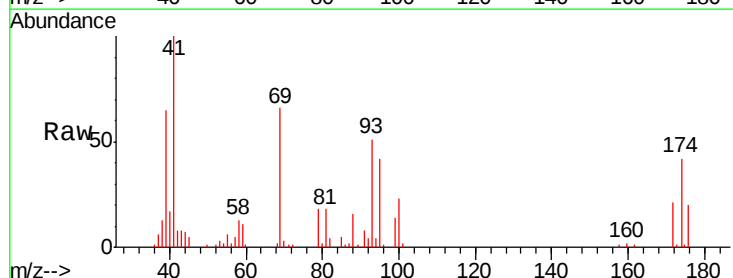
Acq: 19 Nov 2018 11:36

Tgt Ion: 41 Resp: 59750
Ion Ratio Lower Upper

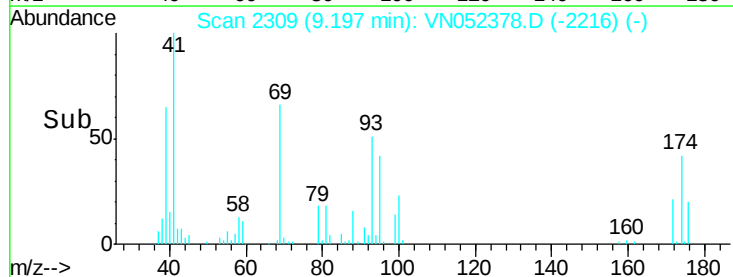
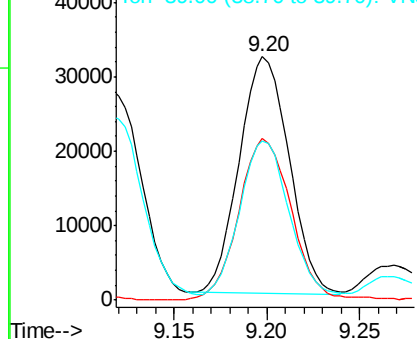
41 100

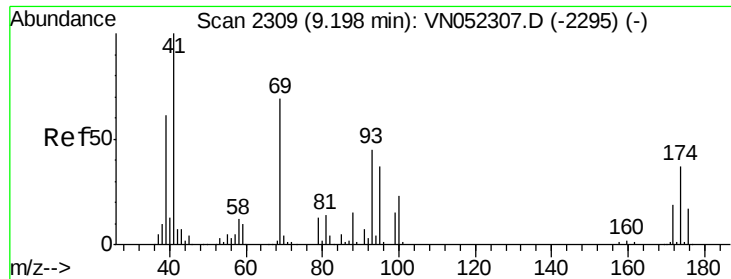
69 71.7 57.1 85.7

39 67.2 52.5 78.7



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





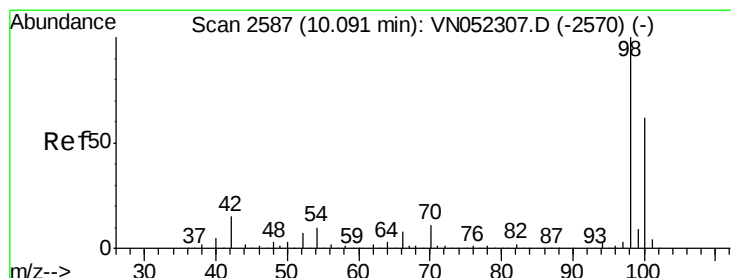
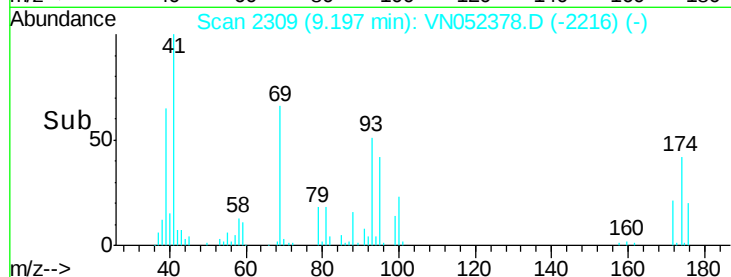
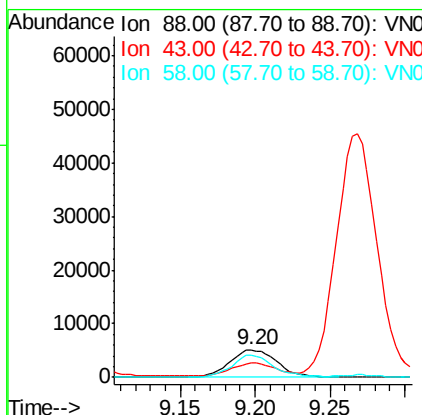
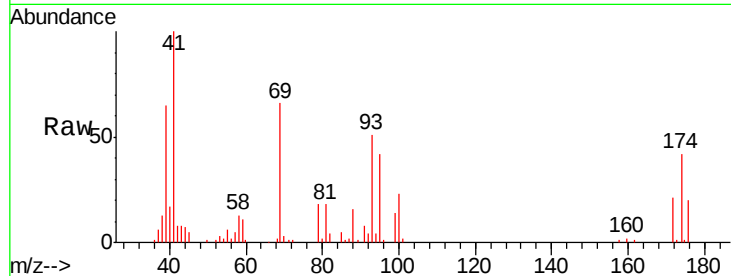
#49
1,4-Dioxane
Concen: 406.63 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS01

Tgt Ion	Ratio	Lower	Upper
88	100		
43	46.0	33.3	49.9
58	72.8	59.2	88.8

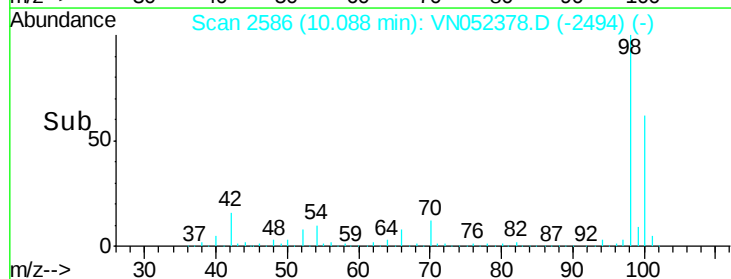
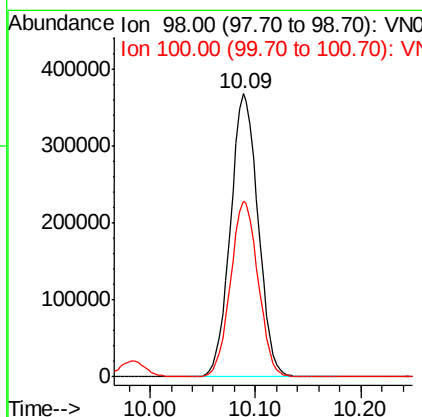
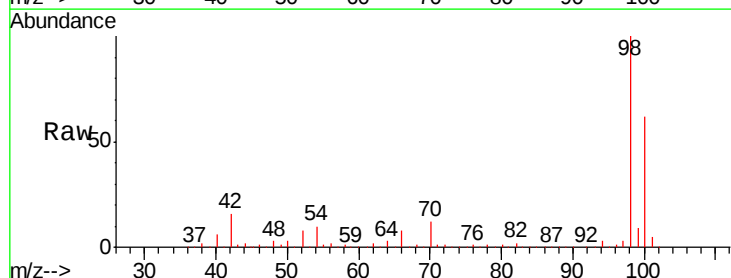
Manual Integrations
APPROVED

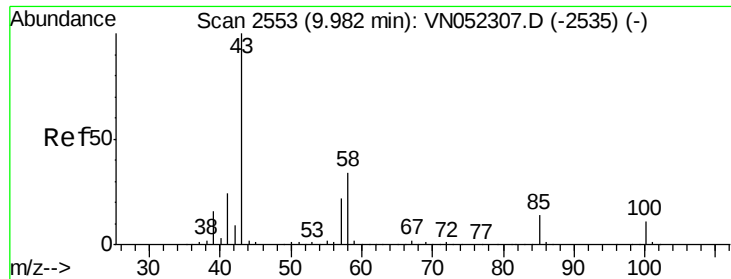
MMDadoda
11/20/2018 11:39:12 AM



#50
Toluene-d8
Concen: 406.63 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Tgt Ion	Ratio	Lower	Upper
98	100		
100	61.9	49.5	74.3





#51

4-Methyl-2-Pentanone

Concen: 95.65 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN052378.D

Acq: 19 Nov 2018 11:36

Instrument :

MSVOA_N

ClientSampleId :

VN1119WBS01

Tgt Ion: 43 Resp: 344664

Ion Ratio Lower Upper

43 100

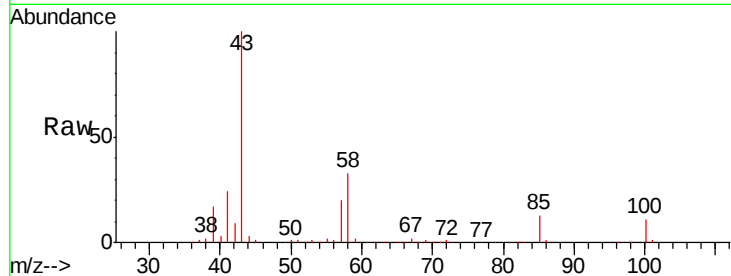
58 33.5 27.0 40.6

Manual Integrations

APPROVED

MMDadoda

11/20/2018 11:39:12 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

200000

150000

100000

50000

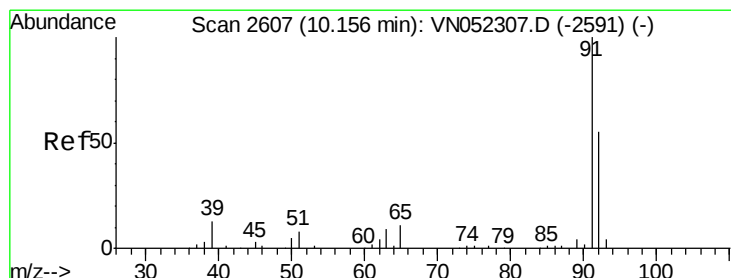
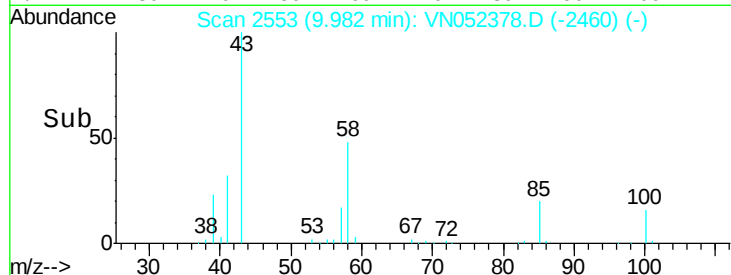
0

9.90

10.00

10.10

Time-->



#52

Toluene

Concen: 20.74 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VN052378.D

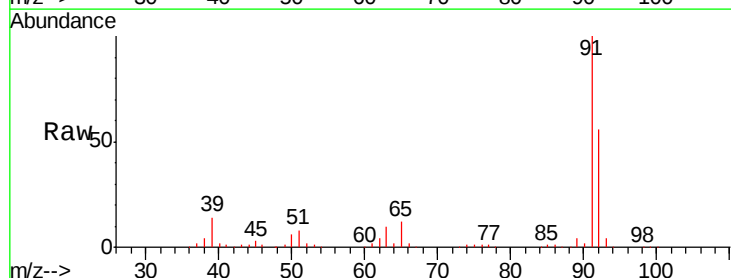
Acq: 19 Nov 2018 11:36

Tgt Ion: 92 Resp: 181183

Ion Ratio Lower Upper

92 100

91 178.0 143.6 215.4



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

200000

150000

100000

50000

0

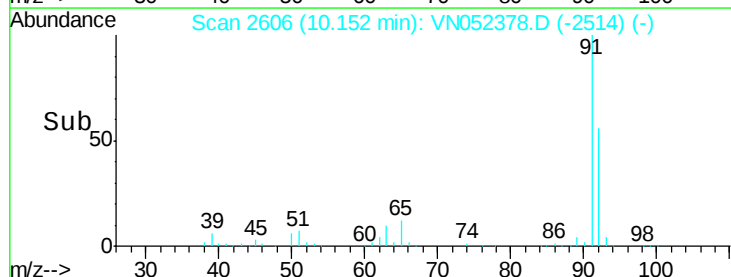
10.05

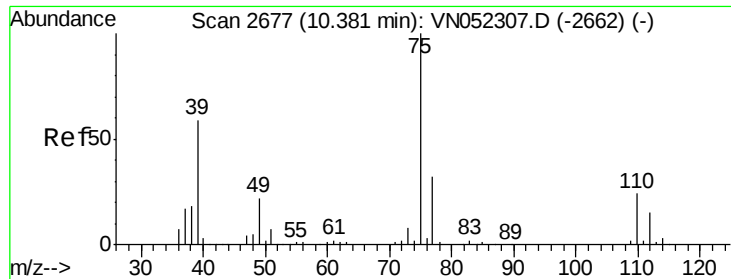
10.10

10.15

10.20

Time-->





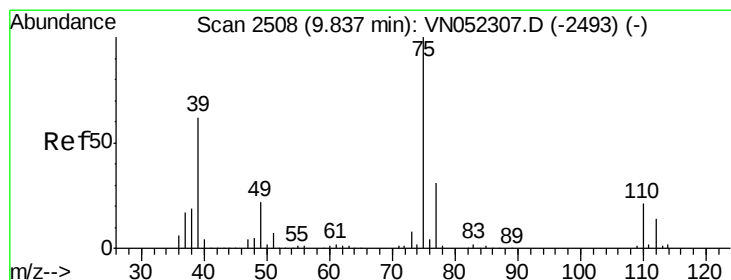
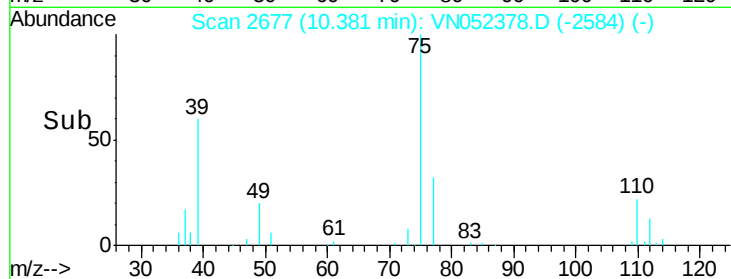
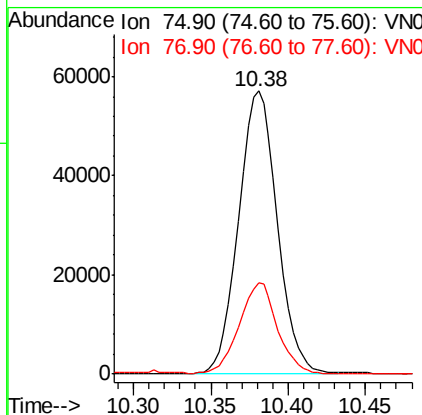
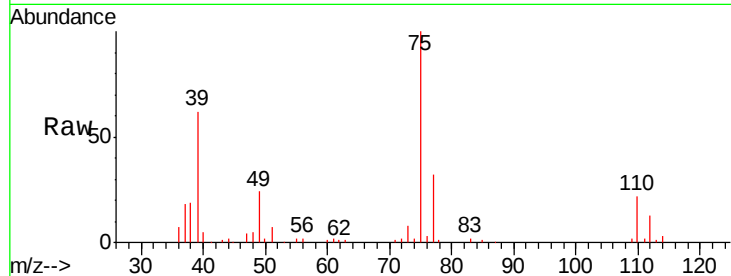
#53
t-1,3-Dichloropropene
Concen: 20.04 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS01

Tgt Ion: 75 Resp: 99510
Ion Ratio Lower Upper
75 100
77 31.8 25.7 38.5

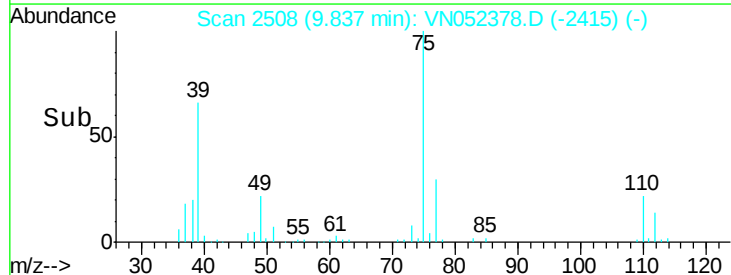
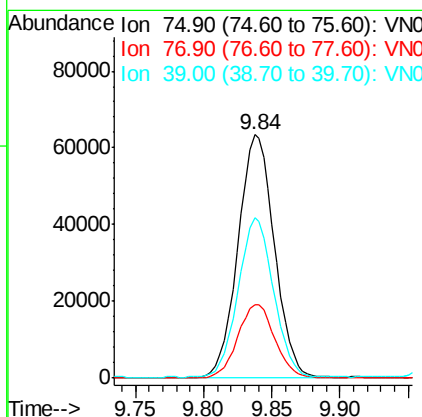
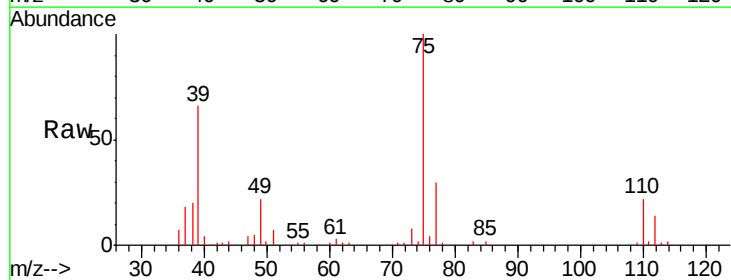
Manual Integrations
APPROVED

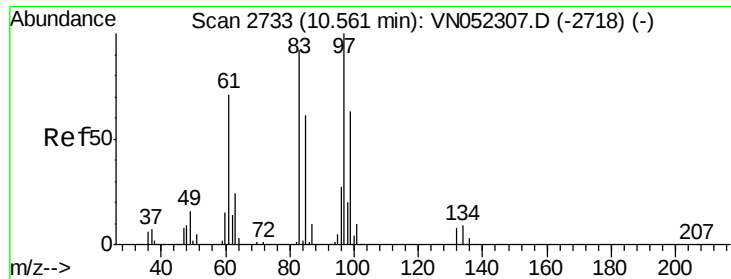
MMDadoda
11/20/2018 11:39:12 AM



#54
cis-1,3-Dichloropropene
Concen: 20.80 ug/l
RT: 9.84 min Scan# 2508
Delta R.T. -0.00 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Tgt Ion: 75 Resp: 117749
Ion Ratio Lower Upper
75 100
77 30.3 24.6 36.8
39 65.5 49.9 74.9





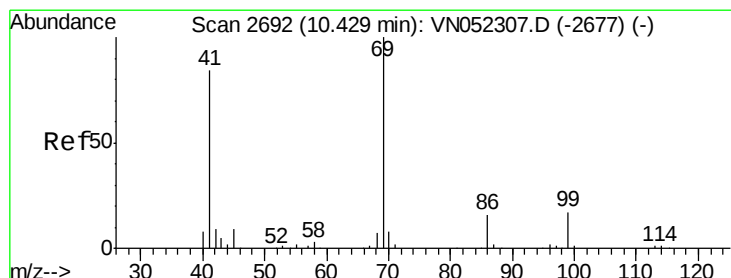
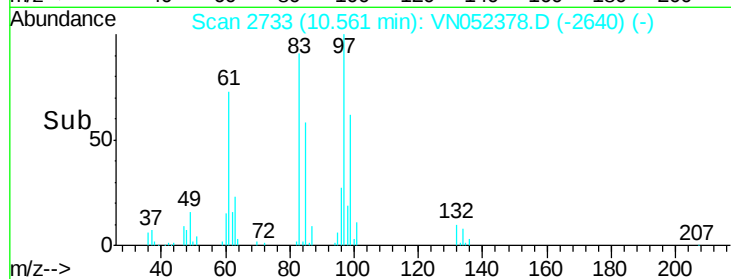
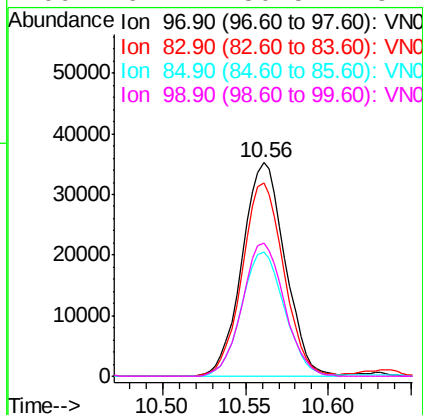
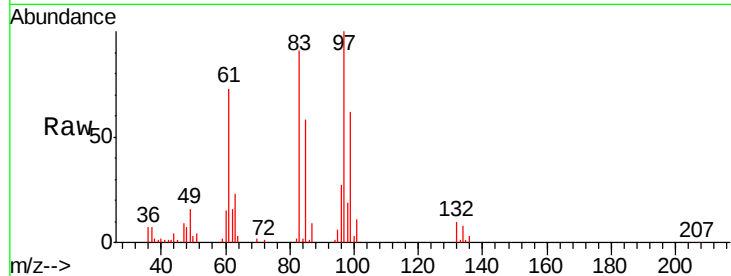
#55
 1,1,2-Trichloroethane
 Concen: 20.01 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN052378.D
 Acq: 19 Nov 2018 11:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1119WBS01

Tgt Ion:	97	Resp:	63364
Ion	Ratio	Lower	Upper
97	100		
83	90.5	73.8	110.6
85	58.0	49.0	73.4
99	62.1	50.5	75.7

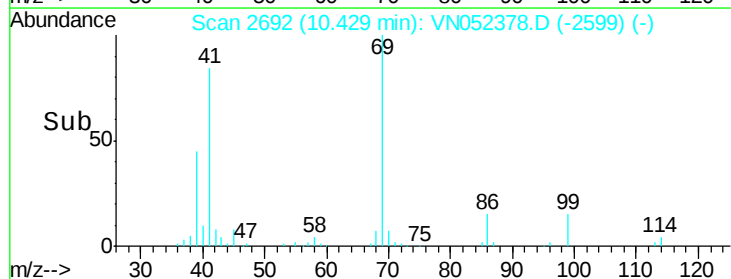
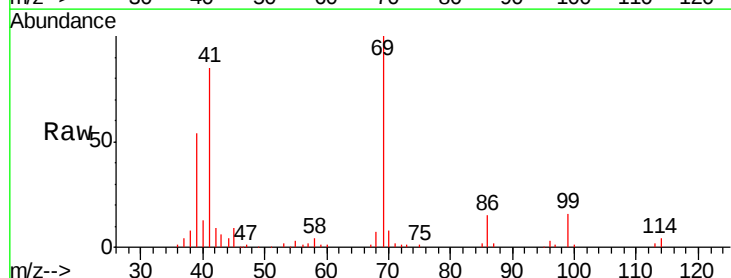
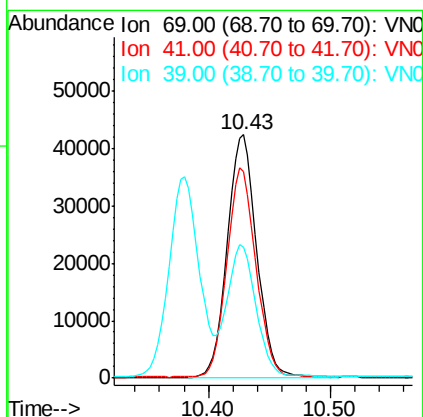
Manual Integrations
 APPROVED

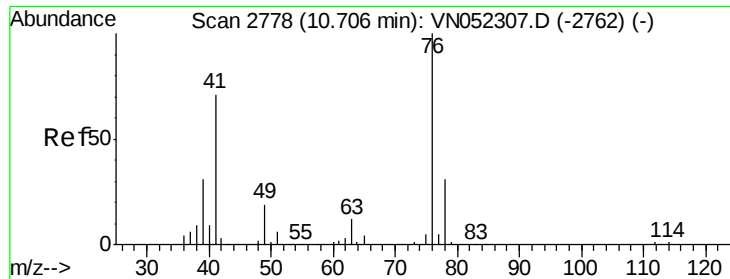
MMDadoda
 11/20/2018 11:39:12 AM



#56
 Ethyl methacrylate
 Concen: 17.31 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. -0.00 min
 Lab File: VN052378.D
 Acq: 19 Nov 2018 11:36

Tgt Ion:	69	Resp:	72069
Ion	Ratio	Lower	Upper
69	100		
41	84.0	64.8	97.2
39	51.0	41.0	61.6





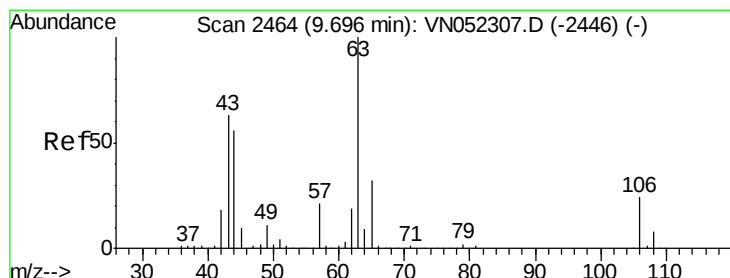
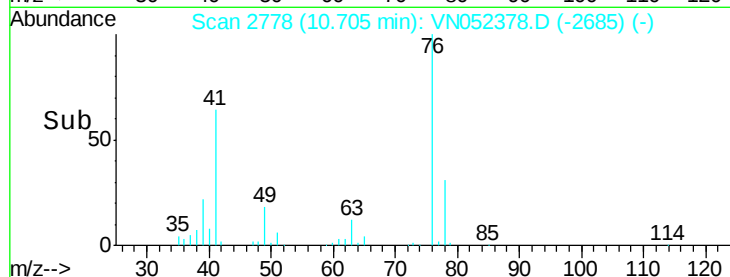
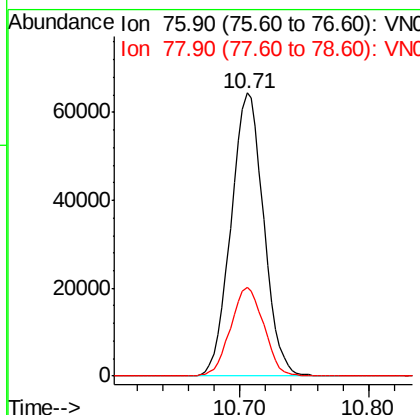
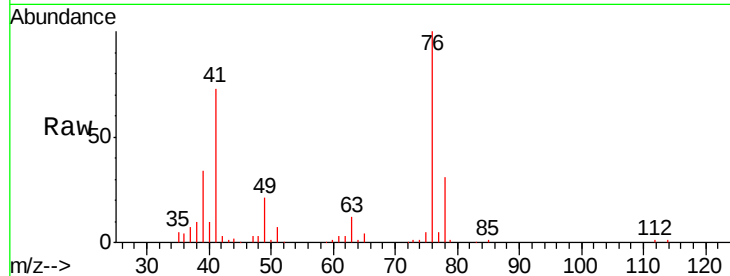
#57
 1,3-Dichloropropane
 Concen: 20.19 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. -0.00 min
 Lab File: VN052378.D
 Acq: 19 Nov 2018 11:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1119WBS01

Tgt Ion: 76 Resp: 113219
 Ion Ratio Lower Upper
 76 100
 78 31.8 25.7 38.5

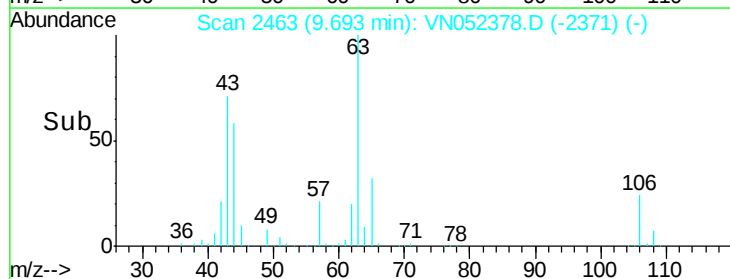
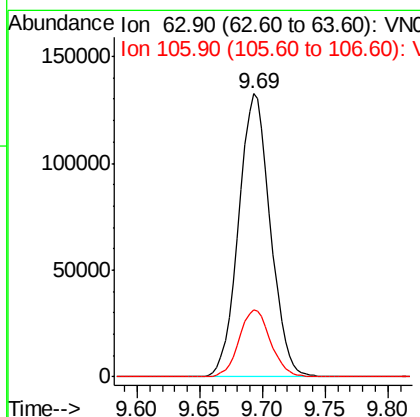
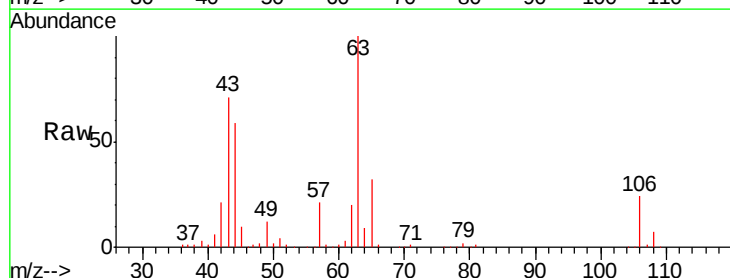
Manual Integrations
 APPROVED

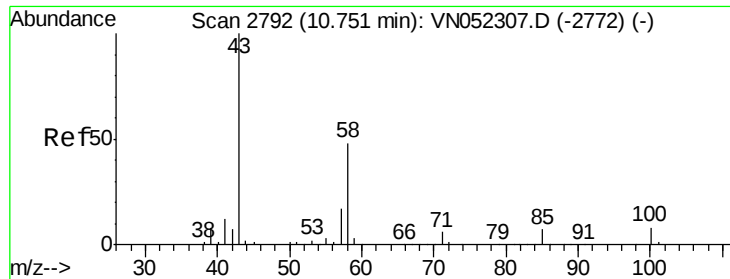
MMDadoda
 11/20/2018 11:39:12 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 98.55 ug/l
 RT: 9.69 min Scan# 2463
 Delta R.T. -0.00 min
 Lab File: VN052378.D
 Acq: 19 Nov 2018 11:36

Tgt Ion: 63 Resp: 233670
 Ion Ratio Lower Upper
 63 100
 106 23.5 19.3 28.9





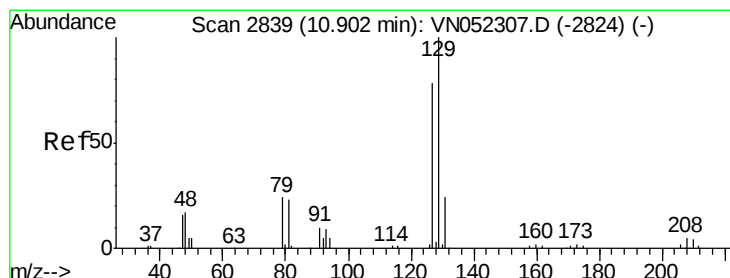
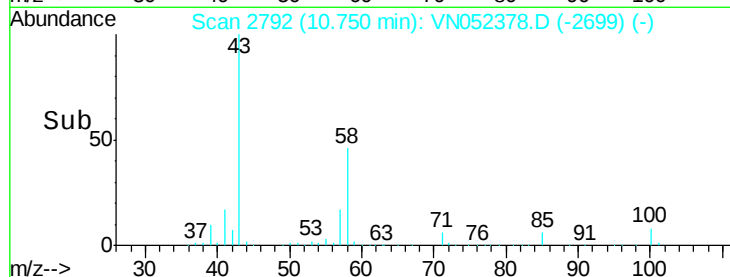
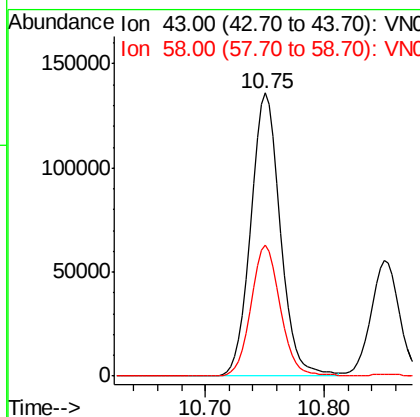
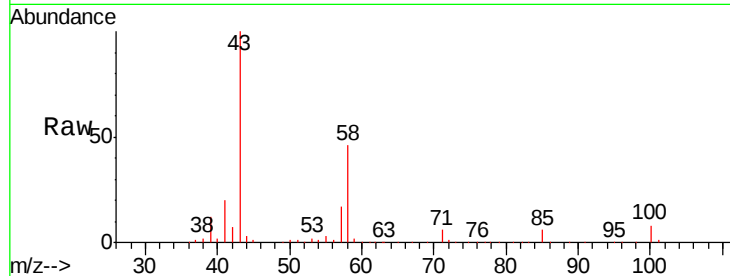
#59
2-Hexanone
Concen: 94.38 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS01

Tgt Ion: 43 Resp: 233912
Ion Ratio Lower Upper
43 100
58 45.8 23.5 70.6

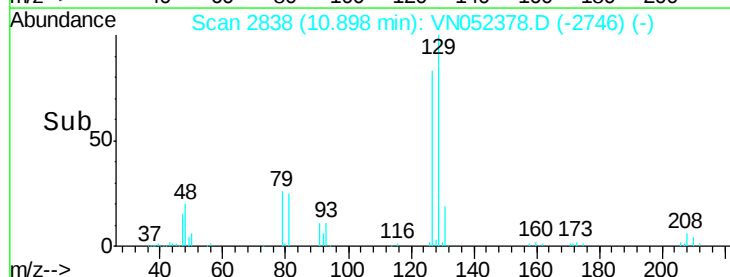
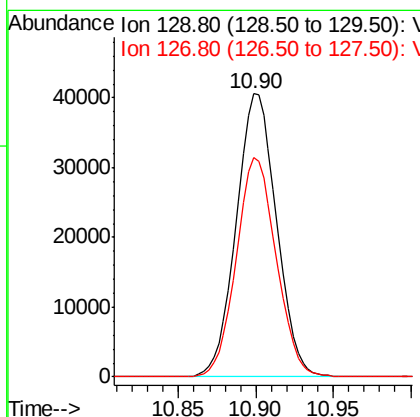
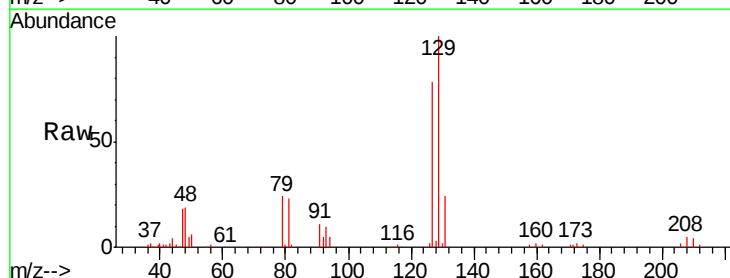
Manual Integrations
APPROVED

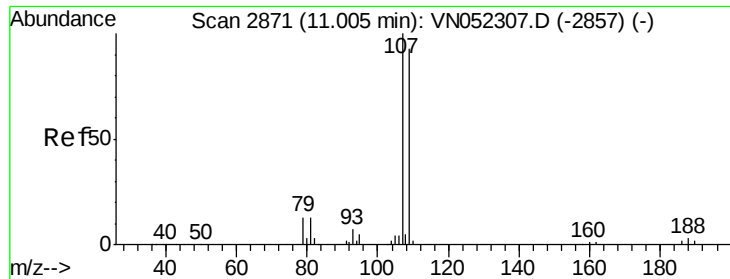
MMDadoda
11/20/2018 11:39:12 AM



#60
Dibromochloromethane
Concen: 21.47 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. -0.00 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Tgt Ion: 129 Resp: 73544
Ion Ratio Lower Upper
129 100
127 76.7 38.5 115.5





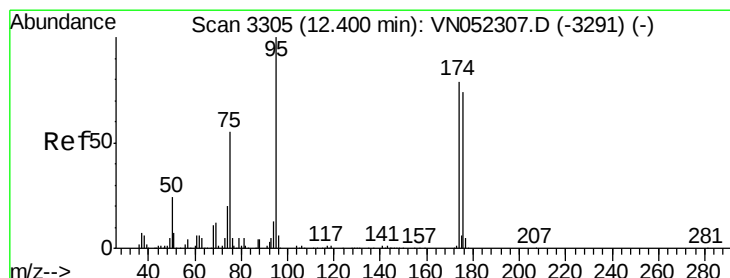
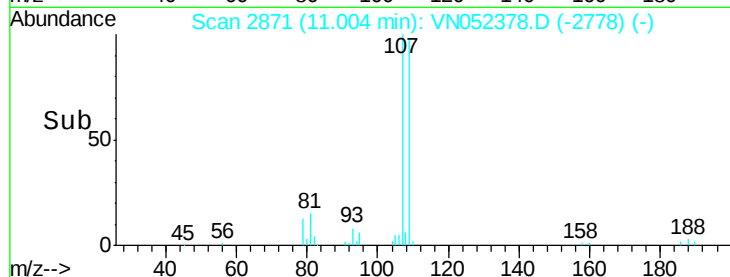
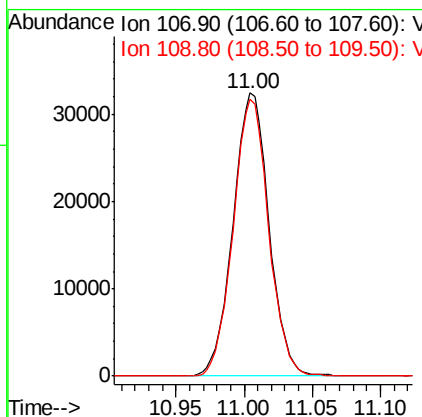
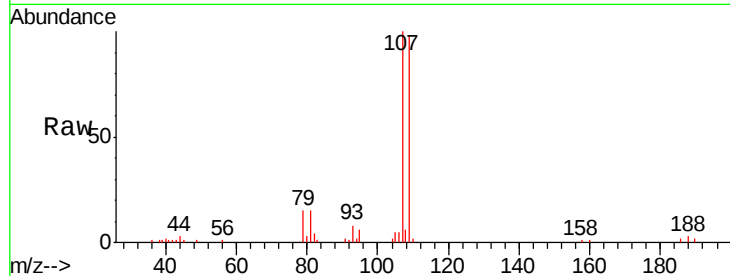
#61
 1,2-Dibromoethane
 Concen: 18.79 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN052378.D
 Acq: 19 Nov 2018 11:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1119WBS01

Tgt Ion	Ratio	Lower	Upper
107	100		
109	96.4	74.9	112.3

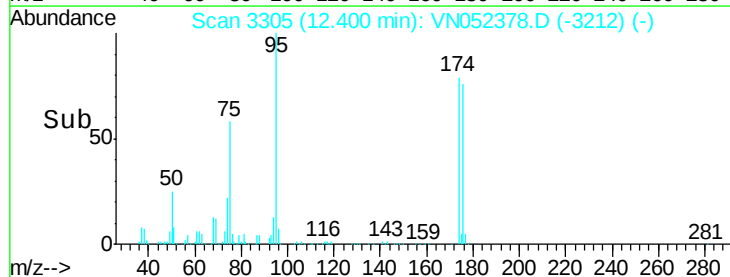
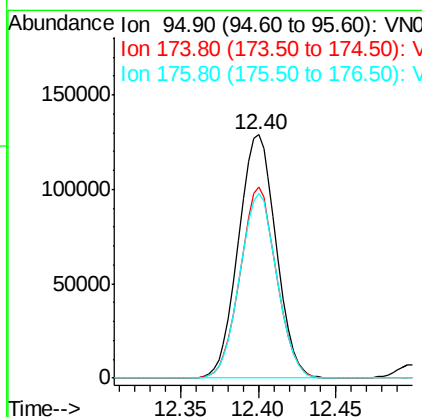
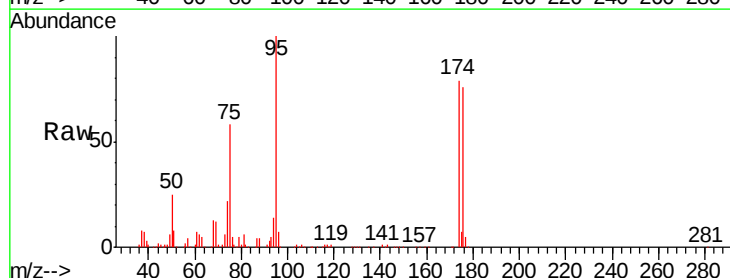
Manual Integrations
 APPROVED

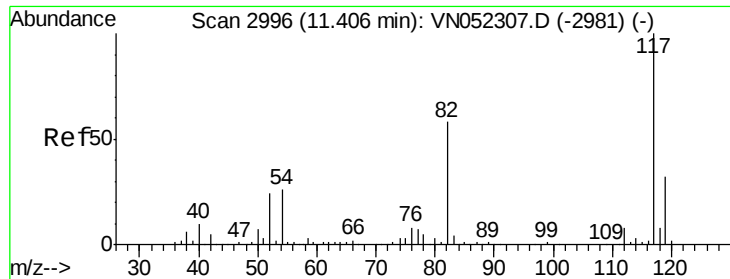
MMDadoda
 11/20/2018 11:39:12 AM



#62
 4-Bromofluorobenzene
 Concen: 18.79 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN052378.D
 Acq: 19 Nov 2018 11:36

Tgt Ion	Ratio	Lower	Upper
95	100		
174	75.8	0.0	156.0
176	74.7	0.0	148.4





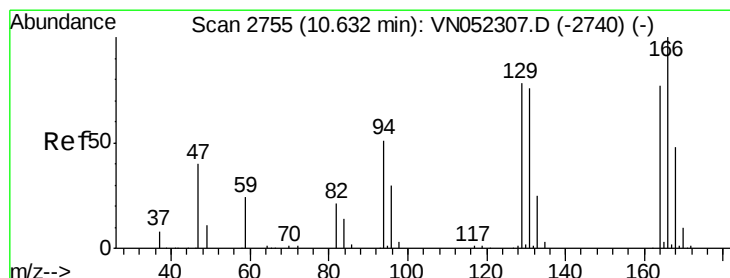
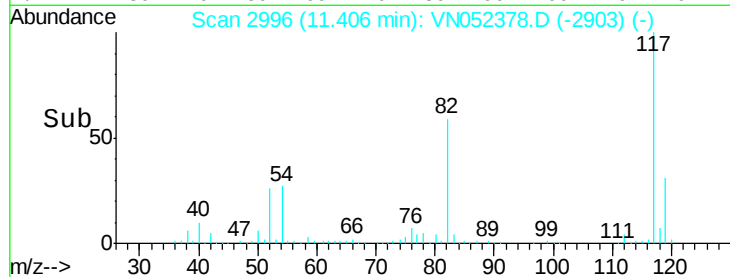
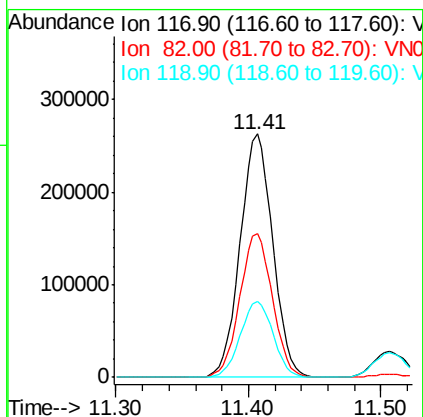
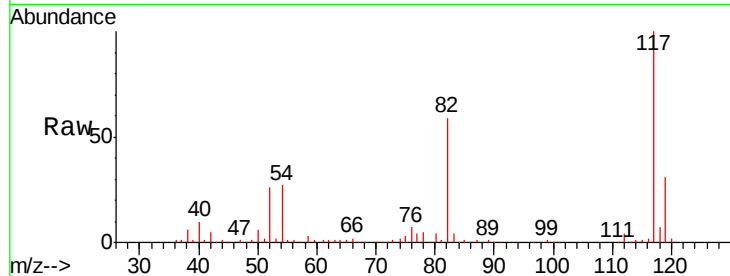
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS01

Tgt Ion	Ratio	Lower	Upper
117	100		
82	59.3	46.5	69.7
119	31.0	25.7	38.5

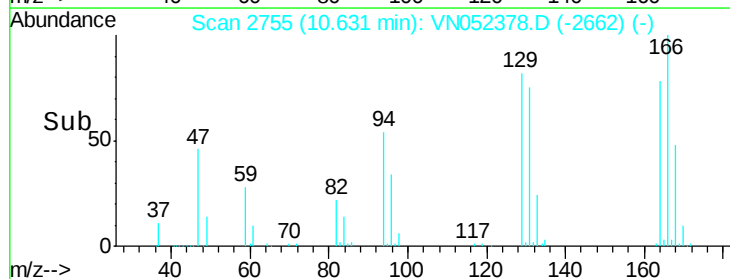
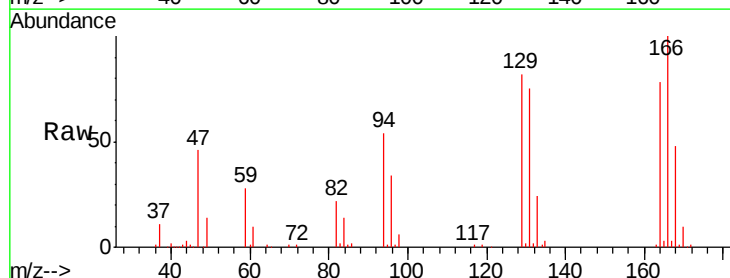
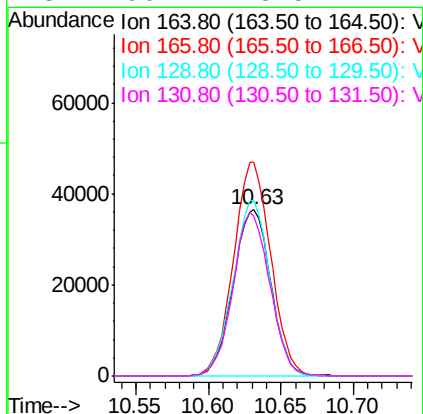
Manual Integrations
APPROVED

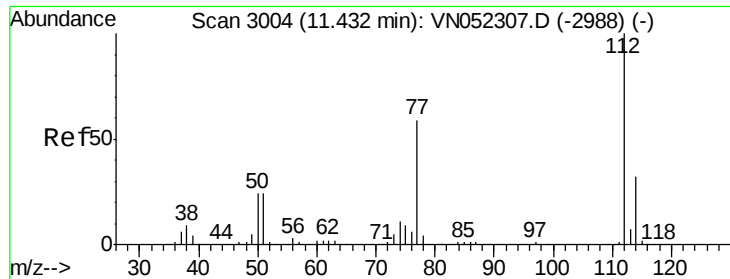
MMDadoda
11/20/2018 11:39:12 AM



#64
Tetrachloroethene
Concen: 20.72 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.6	103.8	155.6
129	105.8	80.7	121.1
131	96.2	78.5	117.7





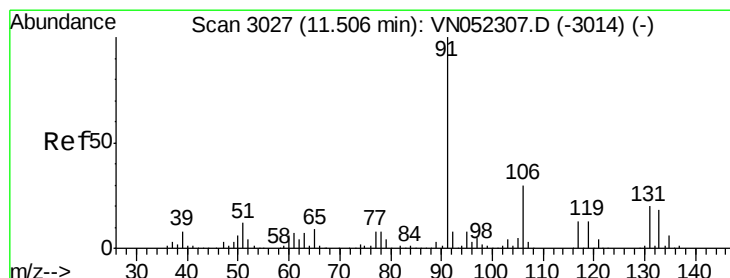
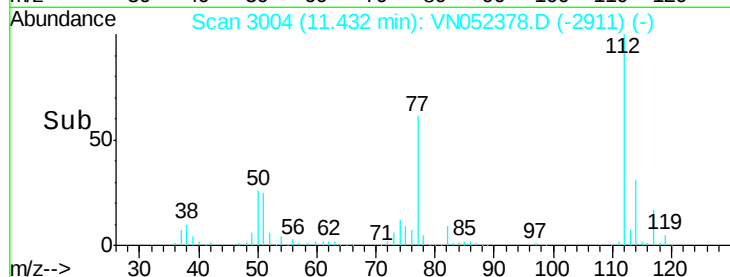
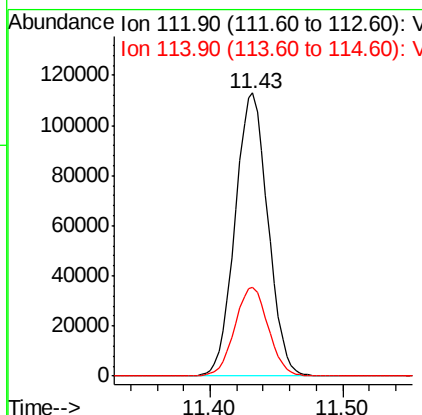
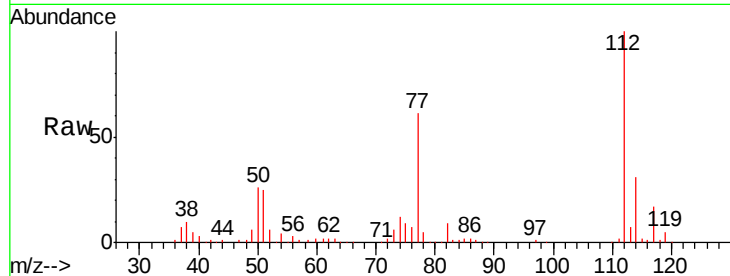
#65
Chlorobenzene
Concen: 20.53 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS01

Tgt Ion:112 Resp: 194531
Ion Ratio Lower Upper
112 100
114 31.5 25.9 38.9

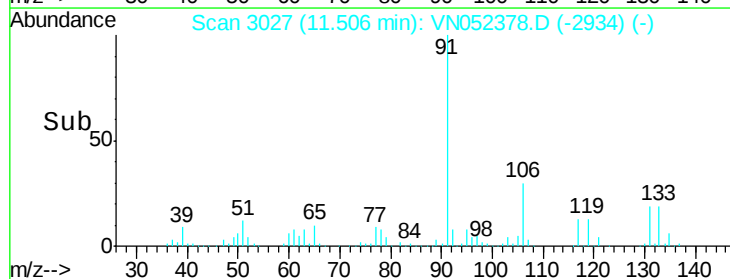
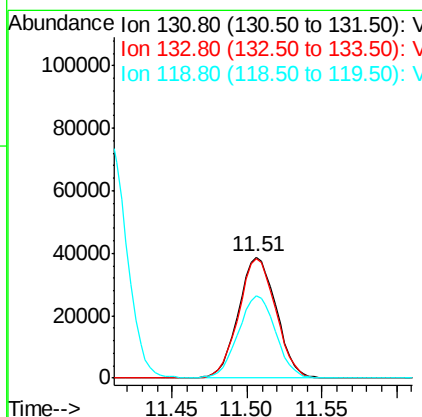
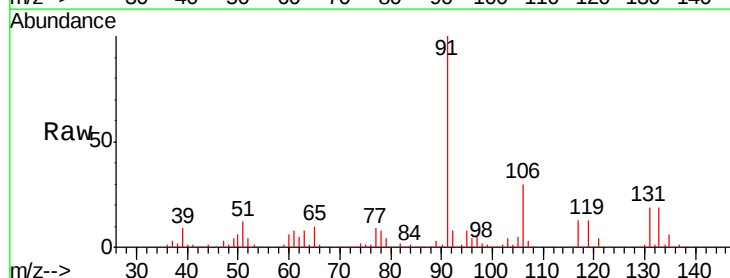
Manual Integrations
APPROVED

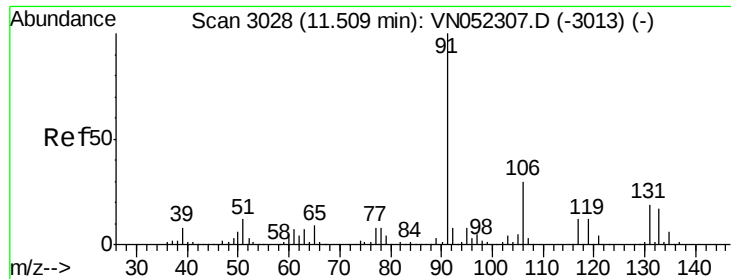
MMDadoda
11/20/2018 11:39:12 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 21.15 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Tgt Ion:131 Resp: 68363
Ion Ratio Lower Upper
131 100
133 97.0 47.4 142.3
119 66.9 33.3 99.9





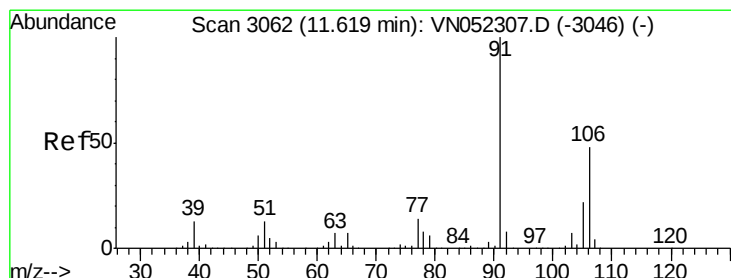
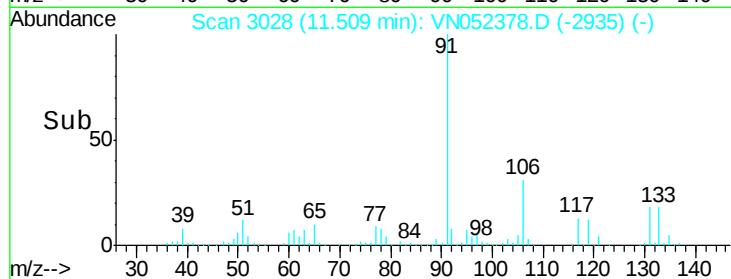
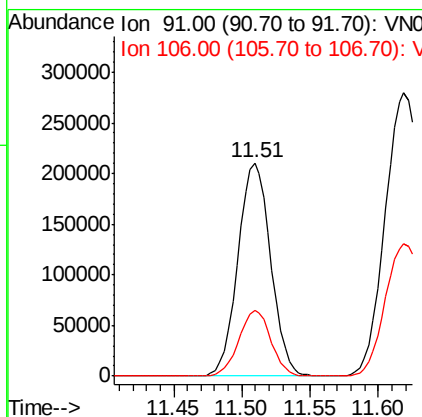
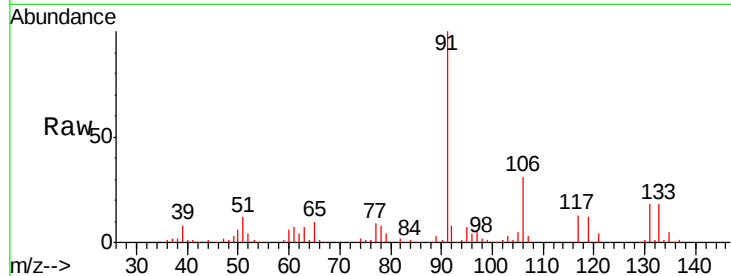
#67
Ethyl Benzene
Concen: 21.34 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS01

Tgt Ion: 91 Resp: 350951
Ion Ratio Lower Upper
91 100
106 30.6 24.2 36.2

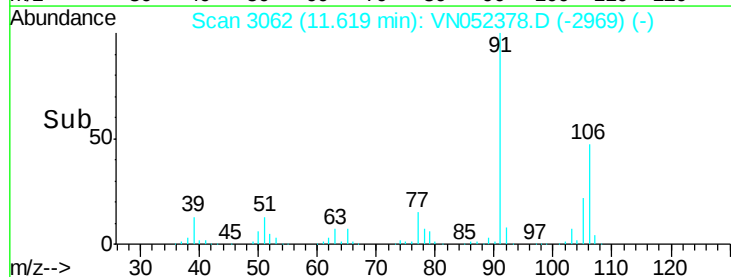
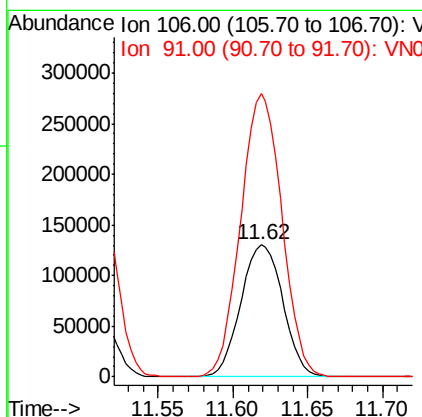
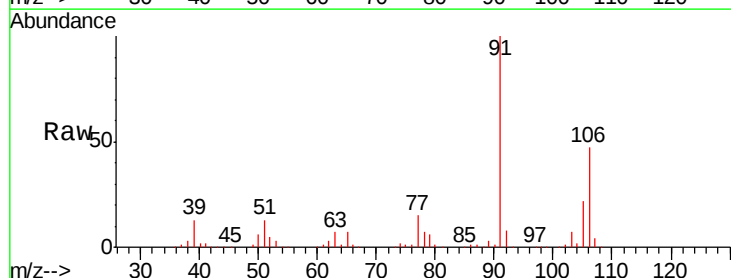
Manual Integrations
APPROVED

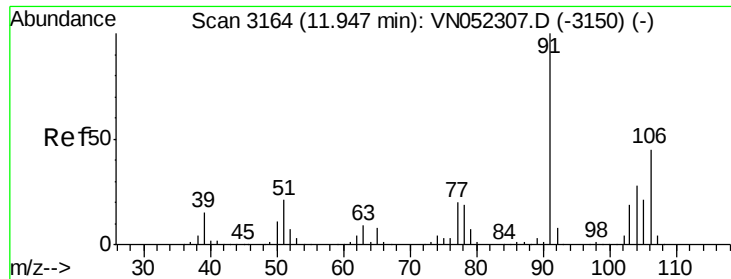
MMDadoda
11/20/2018 11:39:12 AM



#68
m/p-Xylenes
Concen: 42.55 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Tgt Ion: 106 Resp: 255713
Ion Ratio Lower Upper
106 100
91 210.0 165.5 248.3





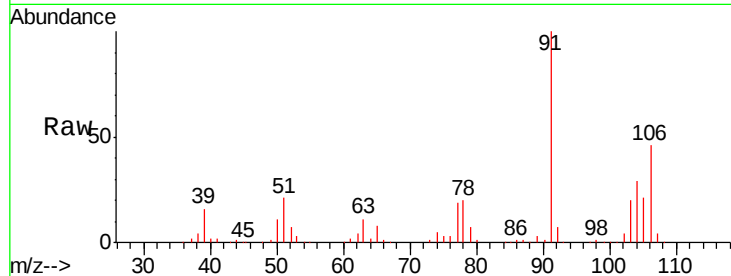
#69
o-Xylene
Concen: 21.57 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS01

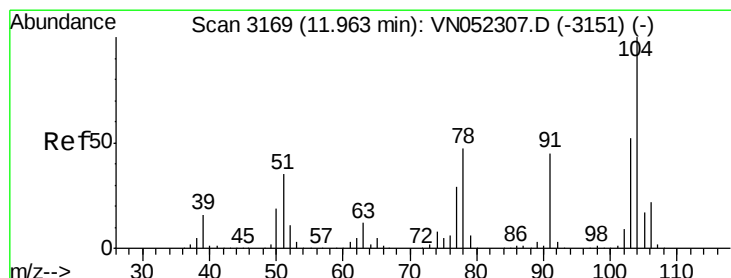
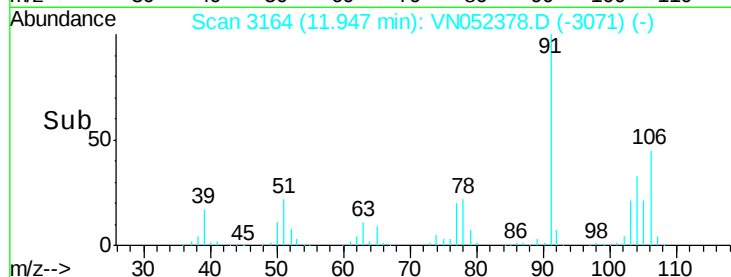
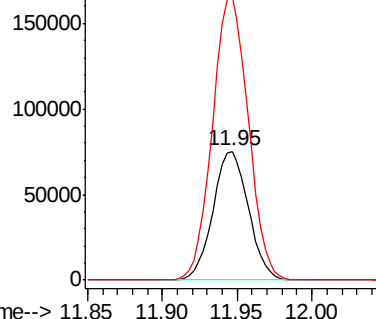
Tgt Ion:106 Resp: 124278
Ion Ratio Lower Upper
106 100
91 222.3 110.0 330.0

Manual Integrations
APPROVED

MMDadoda
11/20/2018 11:39:12 AM

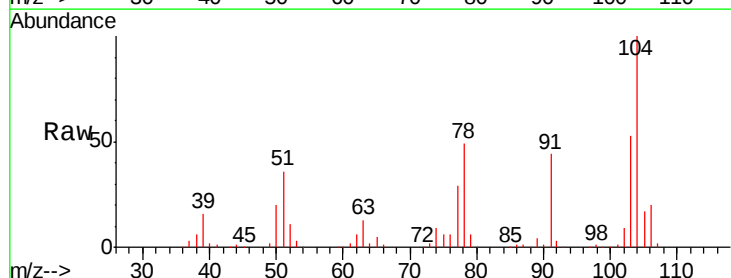


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

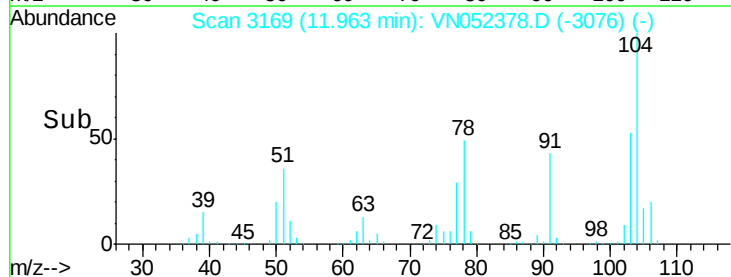
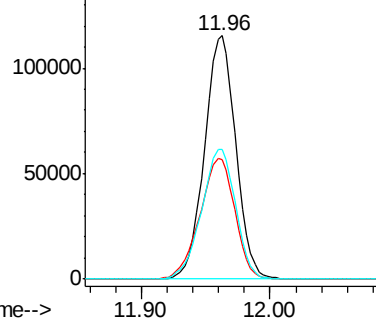


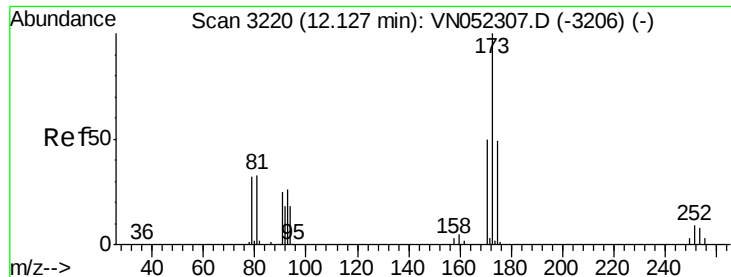
#70
Styrene
Concen: 21.03 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Tgt Ion:104 Resp: 194015
Ion Ratio Lower Upper
104 100
78 55.5 42.7 64.1
103 58.0 45.4 68.0



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN
Ion 103.00 (102.70 to 103.70): V





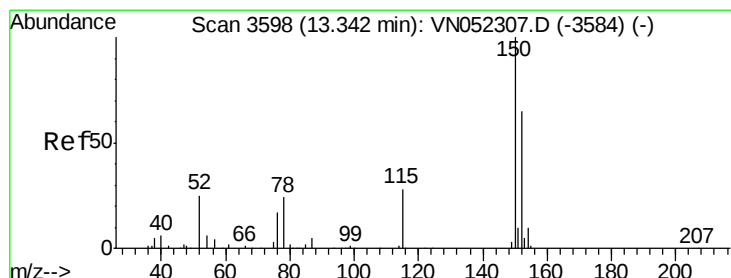
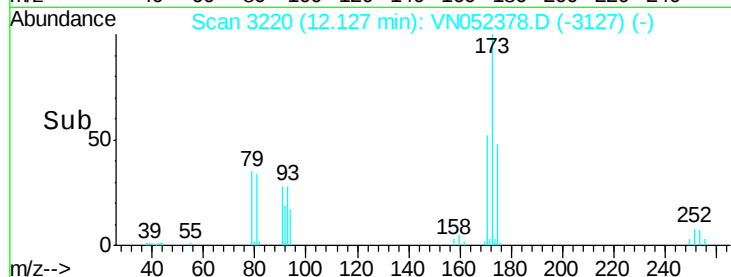
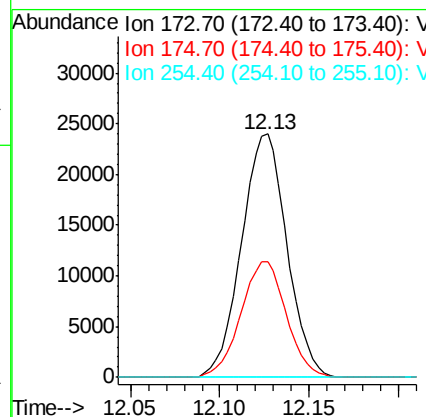
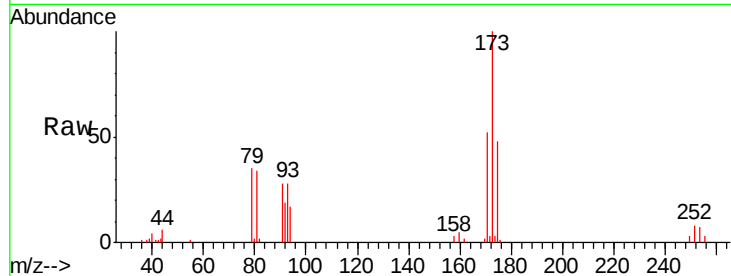
#71
Bromoform
Concen: 22.35 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. -0.00 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS01

Tgt Ion	Ratio	Lower	Upper
173	100		
175	47.5	25.0	75.0
254	0.0	0.0	0.0

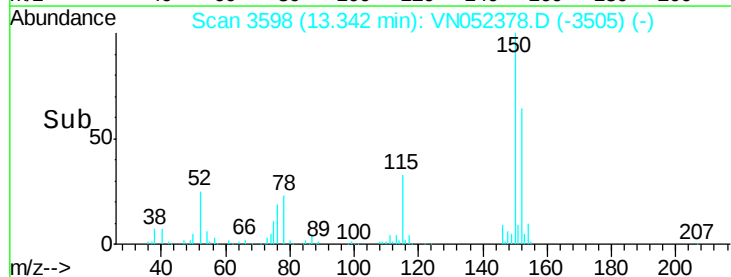
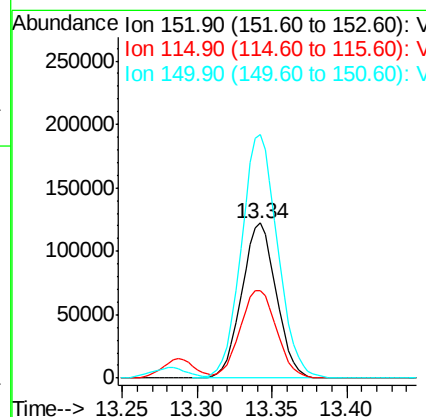
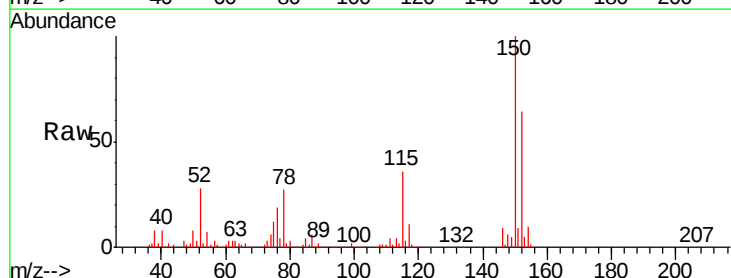
Manual Integrations
APPROVED

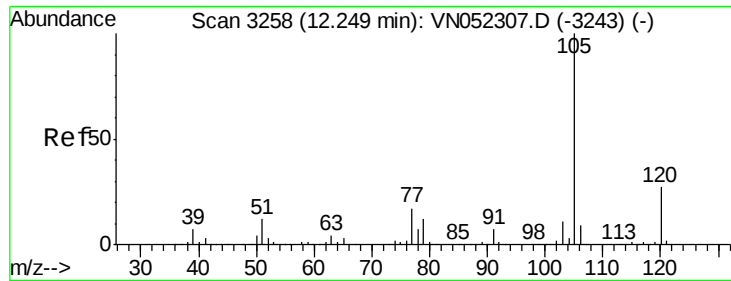
MMDadoda
11/20/2018 11:39:12 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.0	30.3	91.0
150	165.1	0.0	348.2





#73

Isopropylbenzene

Concen: 21.56 ug/l

RT: 12.25 min Scan# 3257

Delta R.T. -0.00 min

Lab File: VN052378.D

Acq: 19 Nov 2018 11:36

Instrument :

MSVOA_N

ClientSampleId :

VN1119WBS01

Tgt Ion: 105 Resp: 339889

Ion Ratio Lower Upper

105 100

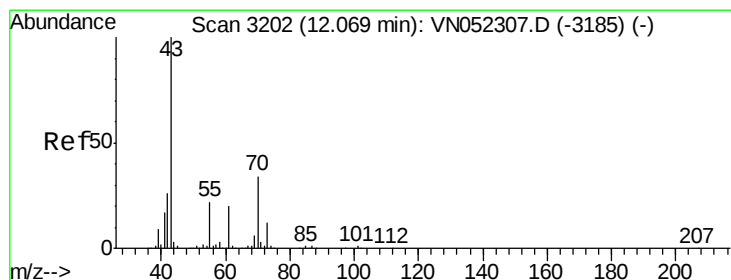
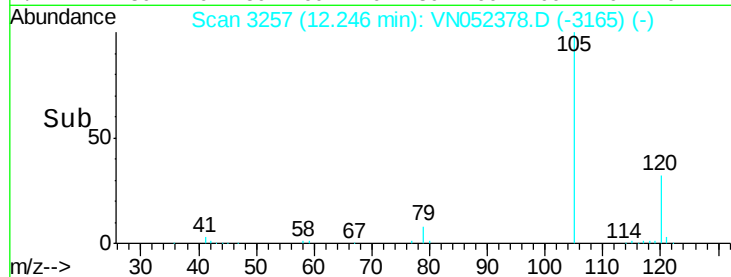
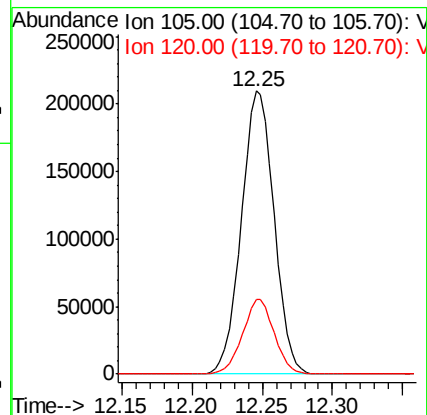
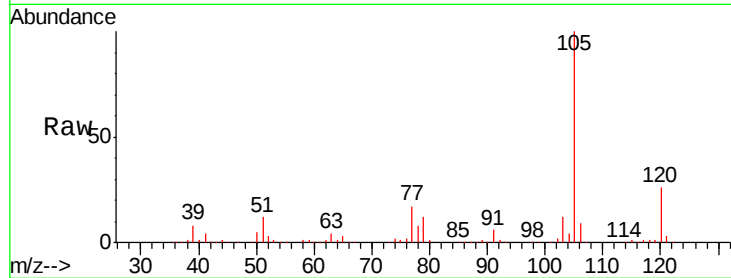
120 25.6 13.4 40.1

Manual Integrations

APPROVED

MMDadoda

11/20/2018 11:39:12 AM



#74

N-ethyl acetate

Concen: 16.48 ug/l

RT: 12.07 min Scan# 3201

Delta R.T. -0.00 min

Lab File: VN052378.D

Acq: 19 Nov 2018 11:36

Tgt Ion: 43 Resp: 92521

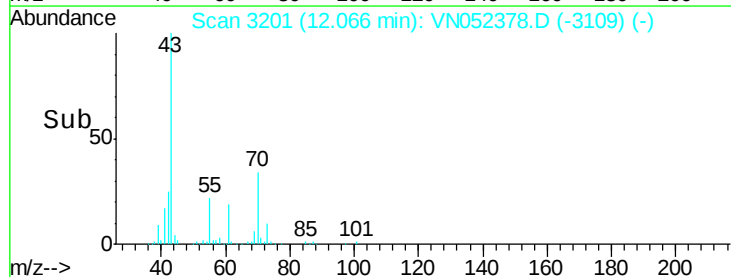
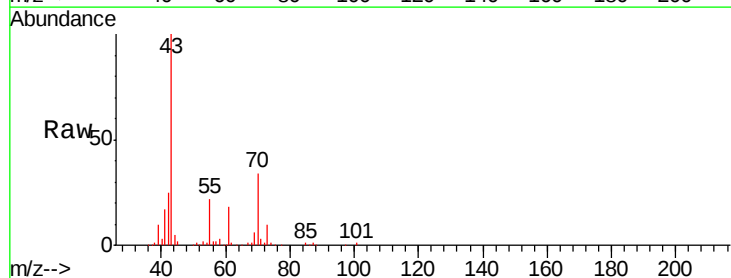
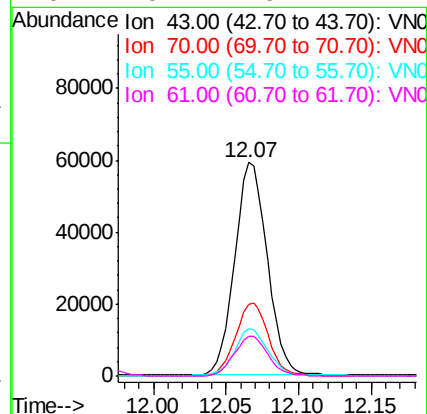
Ion Ratio Lower Upper

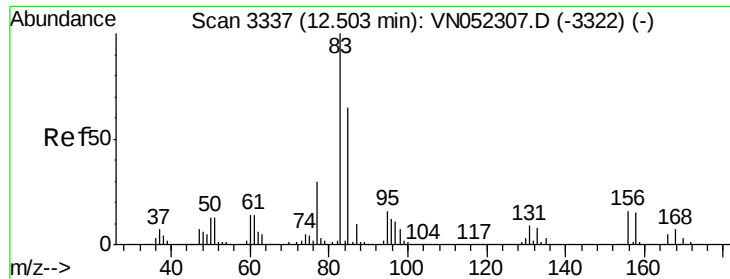
43 100

70 34.5 27.1 40.7

55 22.7 17.4 26.0

61 19.2 16.1 24.1





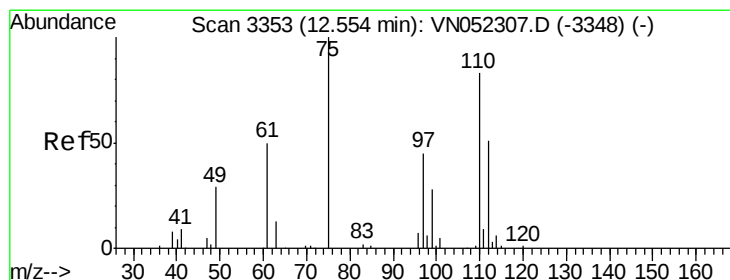
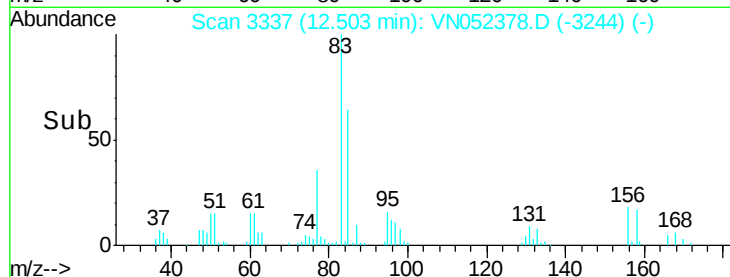
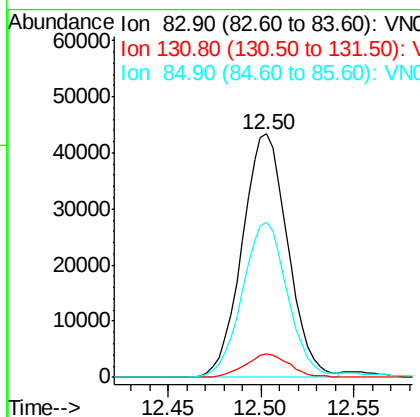
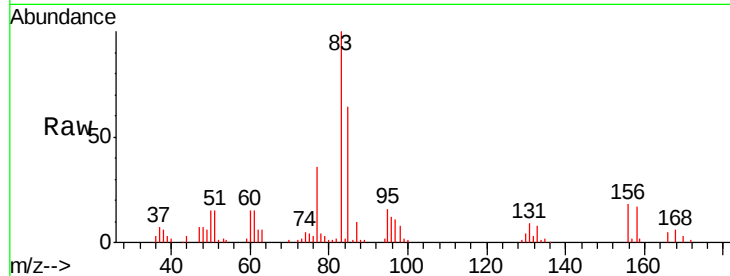
#75
 1,1,2,2-Tetrachloroethane
 Concen: 19.42 ug/l
 RT: 12.50 min Scan# 3337
 Delta R.T. -0.00 min
 Lab File: VN052378.D
 Acq: 19 Nov 2018 11:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1119WBS01

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	73986		
131	9.3	4.7	14.1	
85	64.7	32.4	97.2	

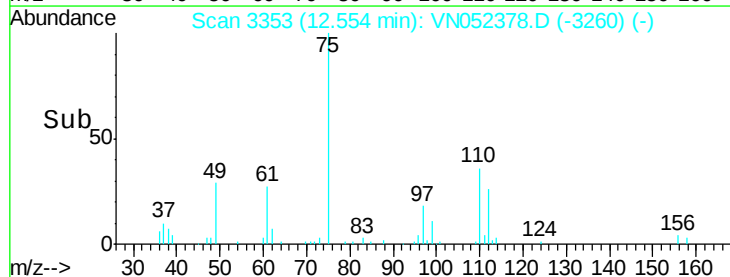
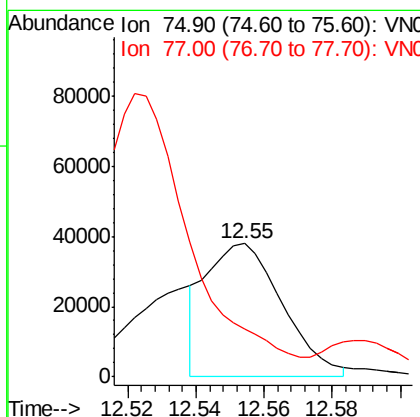
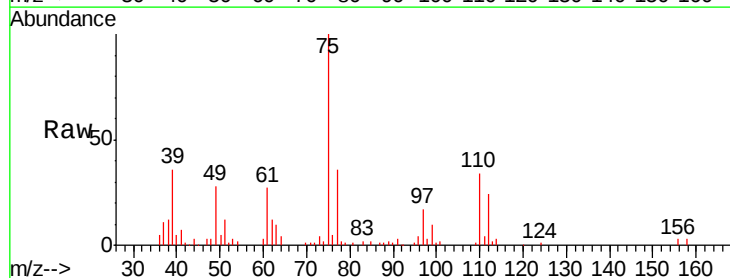
Manual Integrations
 APPROVED

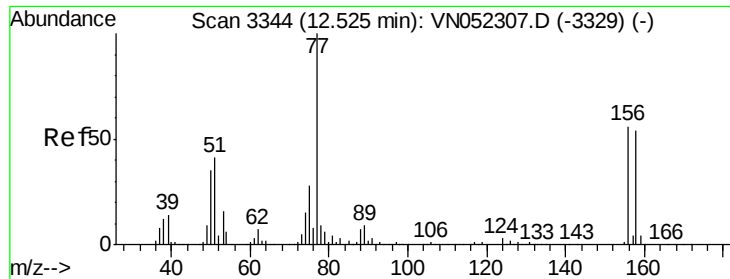
MMDadoda
 11/20/2018 11:39:12 AM



#76
 1,2,3-Trichloropropane
 Concen: 17.73 ug/l m
 RT: 12.55 min Scan# 3353
 Delta R.T. -0.00 min
 Lab File: VN052378.D
 Acq: 19 Nov 2018 11:36

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	58968		
77	0.0	0.0	0.0	





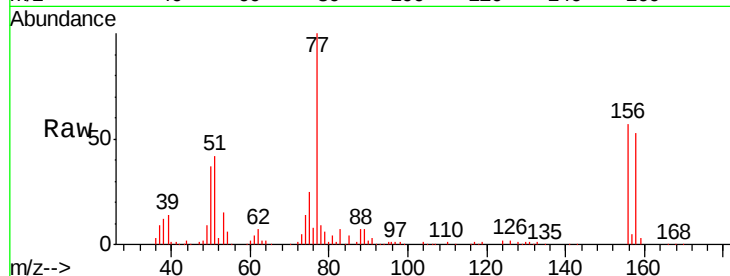
#77
Bromobenzene
Concen: 20.47 ug/l
RT: 12.53 min Scan# 3344
Delta R.T. -0.00 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Instrument :
MSVOA_N
ClientSampled :
VN1119WBS01

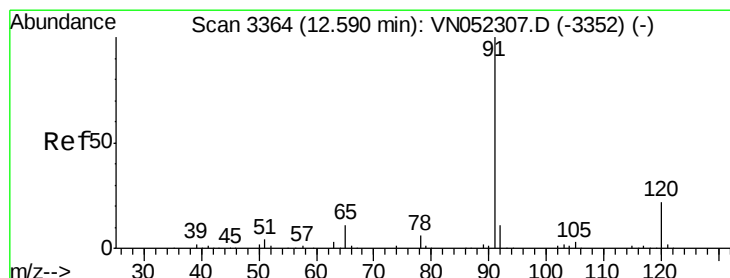
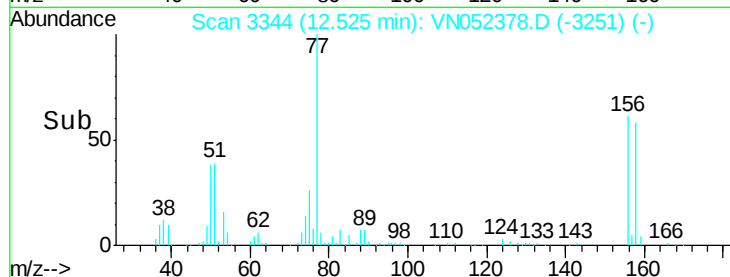
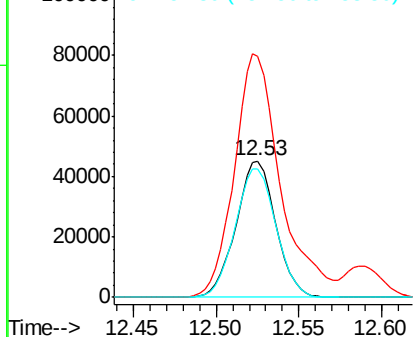
Tgt Ion: 156 Resp: 75072
Ion Ratio Lower Upper
156 100
77 207.1 103.6 310.9
158 97.1 48.1 144.4

Manual Integrations
APPROVED

MMDadoda
11/20/2018 11:39:12 AM

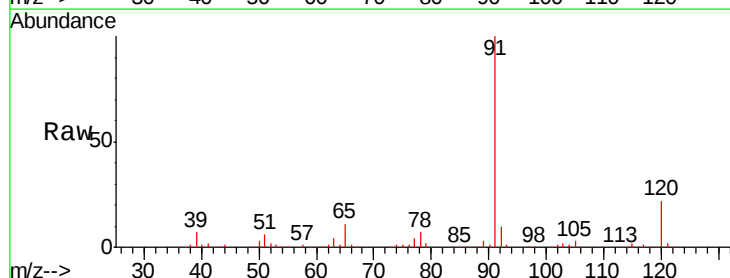


Abundance Ion 155.80 (155.50 to 156.50): V
Ion 77.00 (76.70 to 77.70): VN0
Ion 157.80 (157.50 to 158.50): V

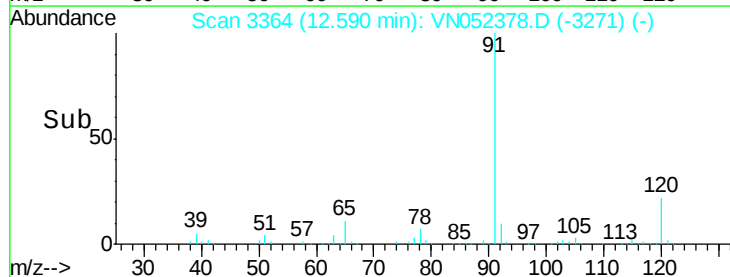
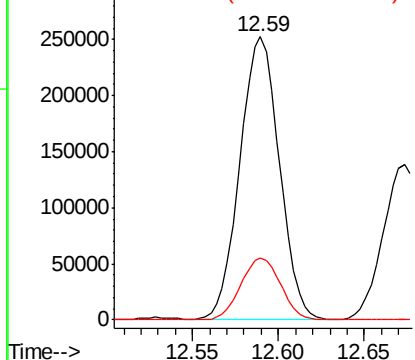


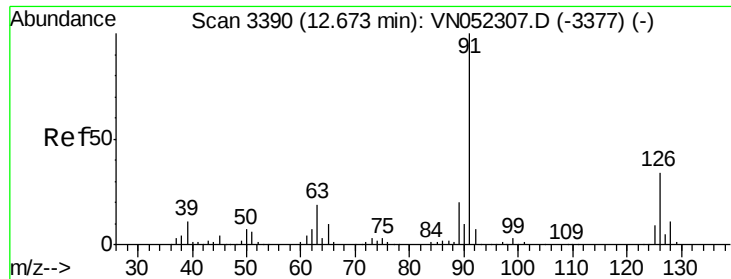
#78
n-propylbenzene
Concen: 21.71 ug/l
RT: 12.59 min Scan# 3364
Delta R.T. -0.00 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Tgt Ion: 91 Resp: 400313
Ion Ratio Lower Upper
91 100
120 22.0 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): VN0
Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 21.34 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN052378.D

Acq: 19 Nov 2018 11:36

Instrument :

MSVOA_N

ClientSampled :

VN1119WBS01

Tgt Ion: 91 Resp: 229777

Ion Ratio Lower Upper

91 100

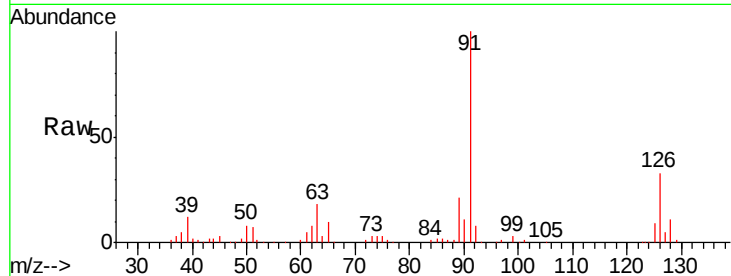
126 33.1 17.0 51.0

Manual Integrations

APPROVED

MMDadoda

11/20/2018 11:39:12 AM



Abundance Ion 91.00 (90.70 to 91.70): VN052307.D (-3377) (-)

Ion 125.90 (125.60 to 126.60): VN052307.D (-3377) (-)

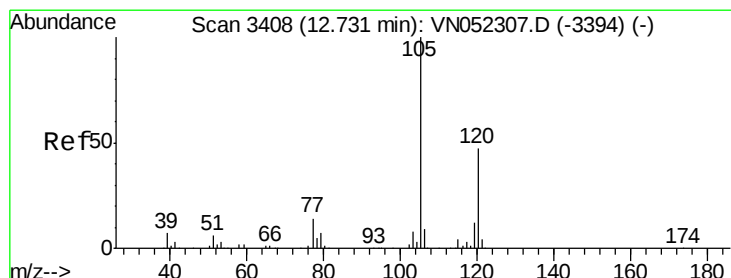
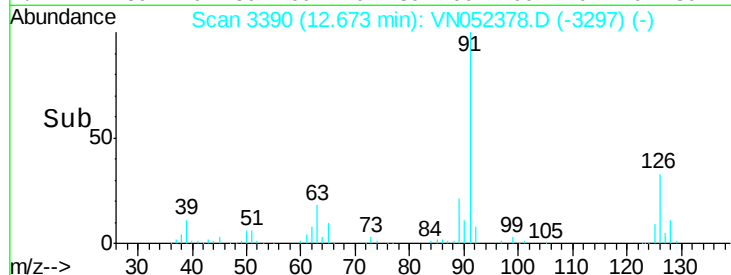
150000

100000

50000

0

Time--> 12.60 12.65 12.70



#80

1,3,5-Trimethylbenzene

Concen: 21.86 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN052378.D

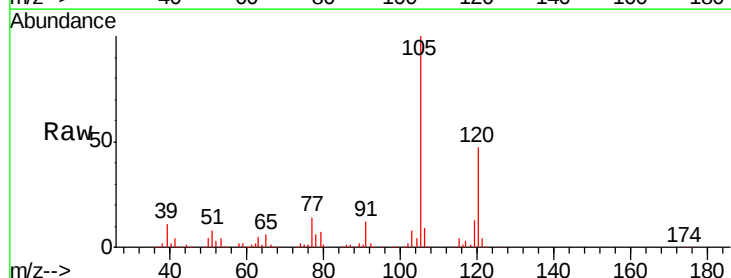
Acq: 19 Nov 2018 11:36

Tgt Ion: 105 Resp: 274036

Ion Ratio Lower Upper

105 100

120 47.3 23.7 71.1



Abundance Ion 105.00 (104.70 to 105.70): VN052307.D (-3394) (-)

Ion 120.00 (119.70 to 120.70): VN052307.D (-3394) (-)

200000

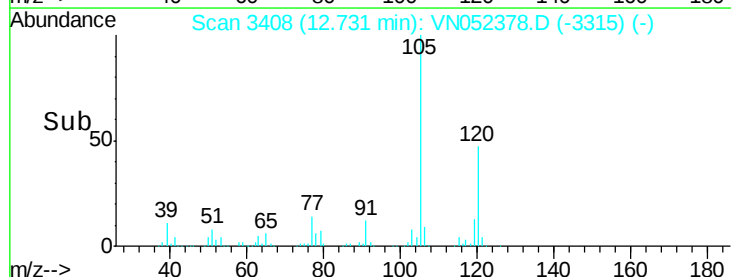
150000

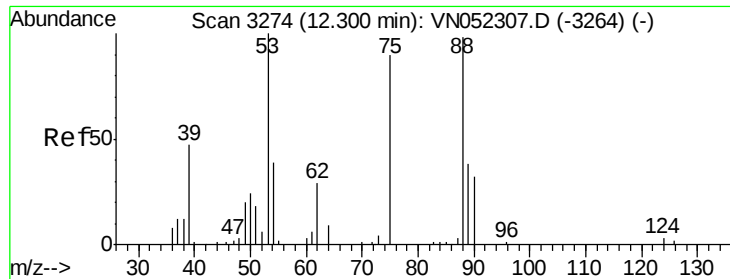
100000

50000

0

Time--> 12.70 12.80





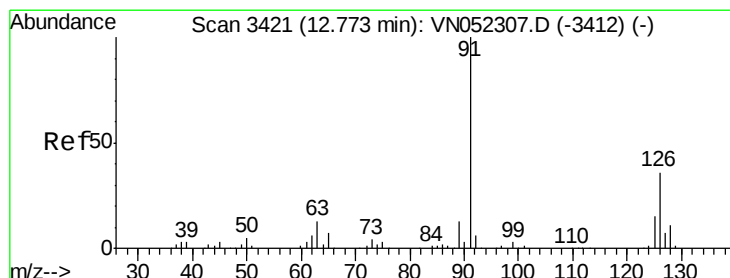
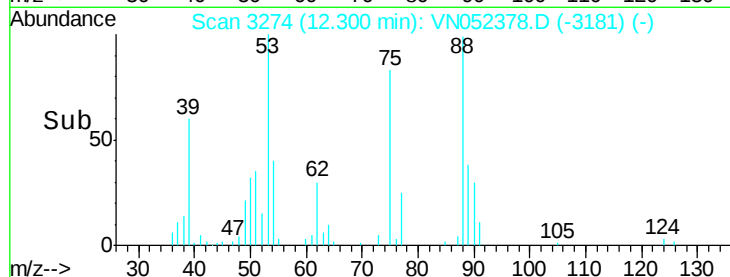
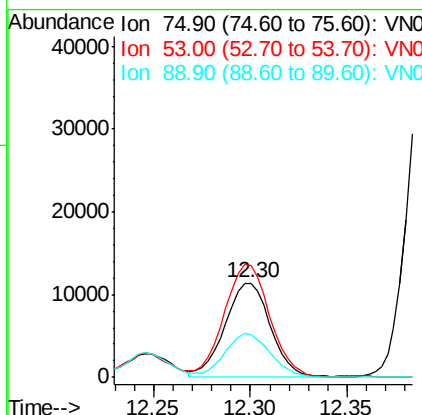
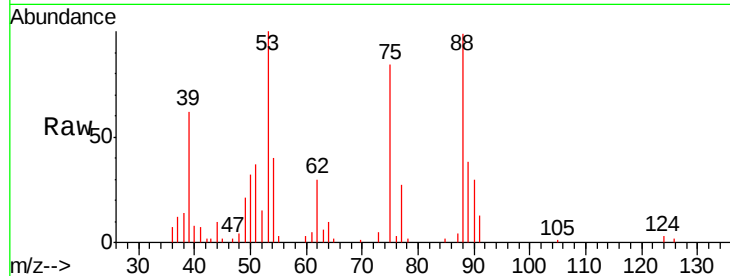
#81
trans-1,4-Dichloro-2-butene
Concen: 18.31 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. -0.00 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS01

Tgt Ion	Ratio	Lower	Upper
75	100		
53	120.0	90.2	135.2
89	45.9	35.4	53.0

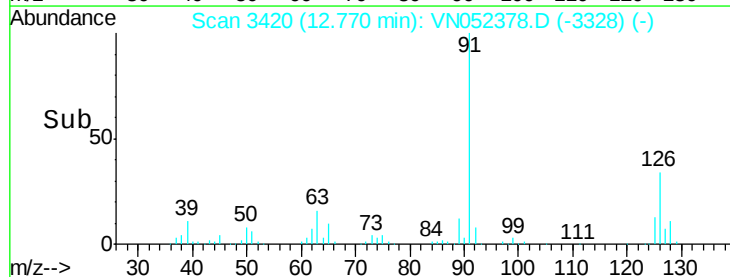
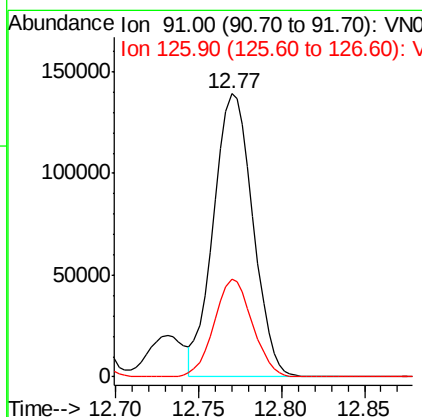
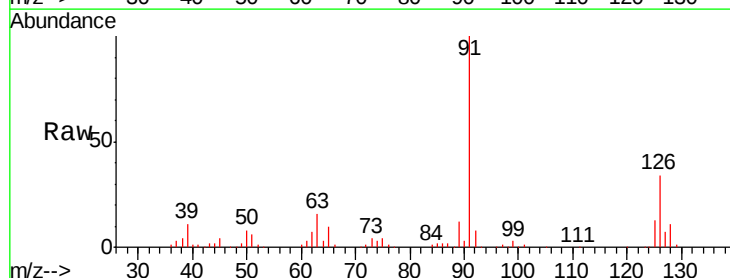
Manual Integrations
APPROVED

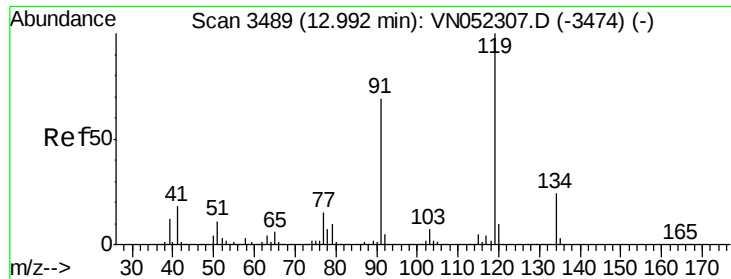
MMDadoda
11/20/2018 11:39:12 AM



#82
4-Chlorotoluene
Concen: 20.87 ug/l
RT: 12.77 min Scan# 3420
Delta R.T. -0.00 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.4	17.0	50.9





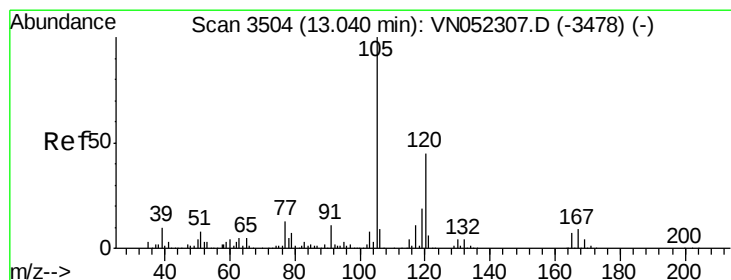
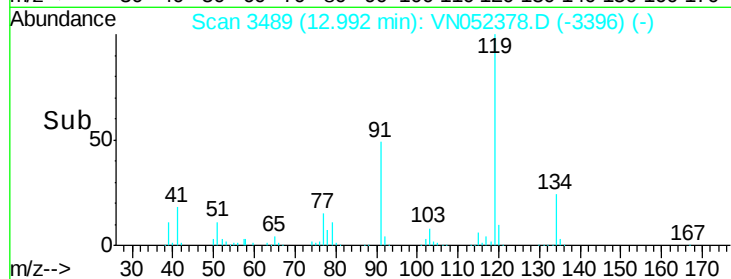
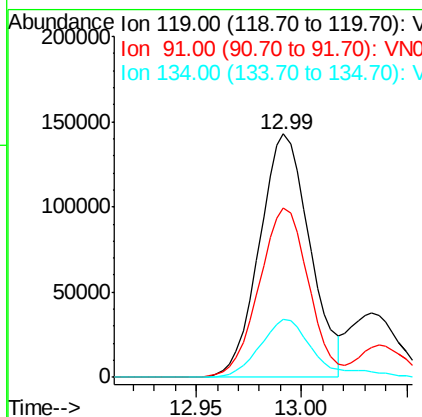
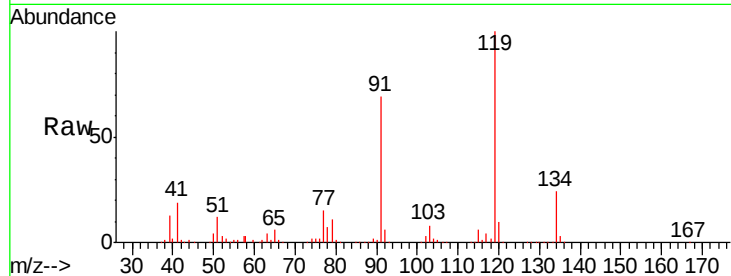
#83
 tert-Butylbenzene
 Concen: 21.52 ug/l
 RT: 12.99 min Scan# 3489
 Delta R.T. -0.00 min
 Lab File: VN052378.D
 Acq: 19 Nov 2018 11:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1119WBS01

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	238178		
91	68.3	33.8	101.3	
134	25.7	11.9	35.9	

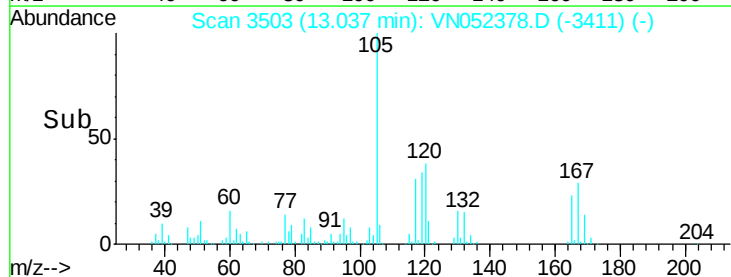
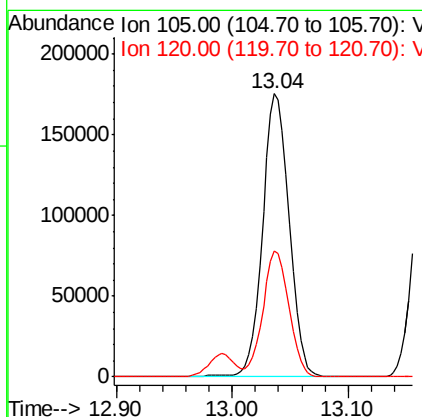
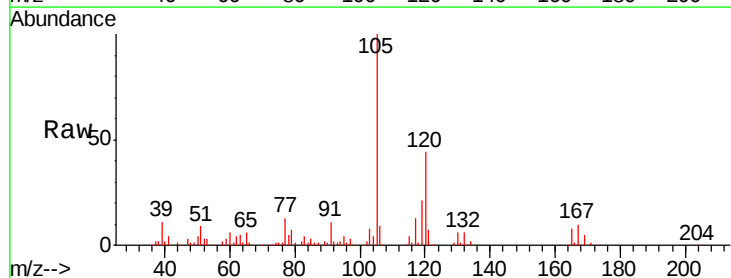
Manual Integrations
 APPROVED

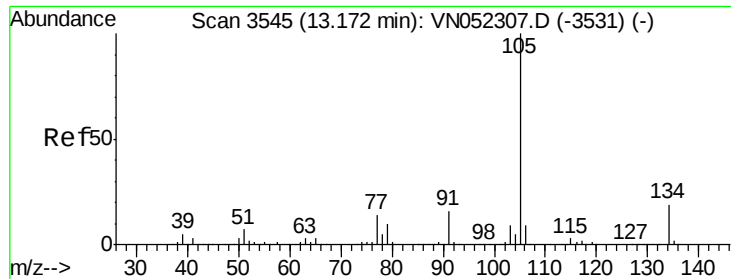
MMDadoda
 11/20/2018 11:39:12 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 22.18 ug/l
 RT: 13.04 min Scan# 3503
 Delta R.T. -0.00 min
 Lab File: VN052378.D
 Acq: 19 Nov 2018 11:36

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	279074		
120	43.5	22.5	67.5	





#85

sec-Butylbenzene

Concen: 21.93 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN052378.D

Acq: 19 Nov 2018 11:36

Instrument :

MSVOA_N

ClientSampleId :

VN1119WBS01

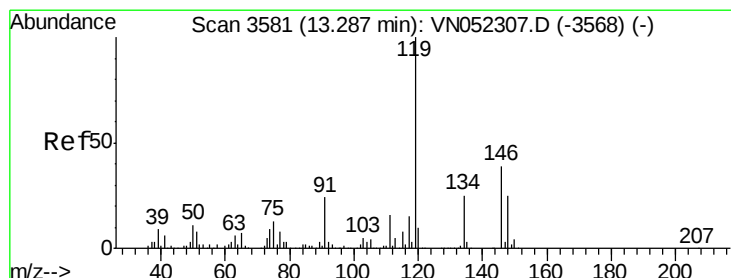
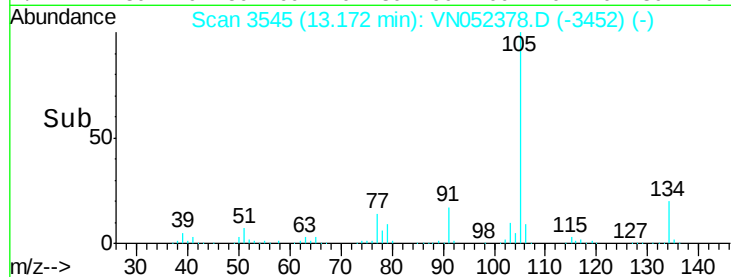
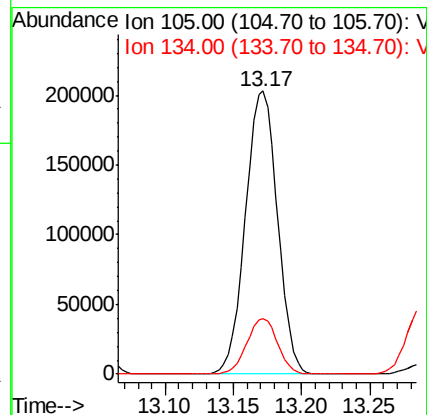
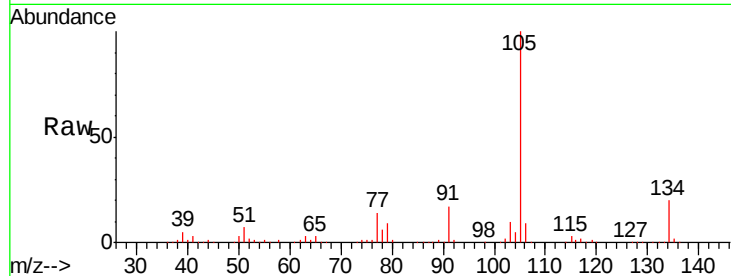
Tgt Ion:105 Resp: 330632
Ion Ratio Lower Upper

105 100

134 19.0 9.5 28.5

Manual Integrations
APPROVED

MMDadoda
11/20/2018 11:39:12 AM



#86

p-Isopropyltoluene

Concen: 21.77 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN052378.D

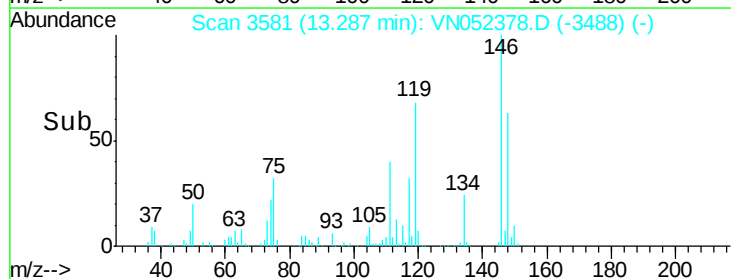
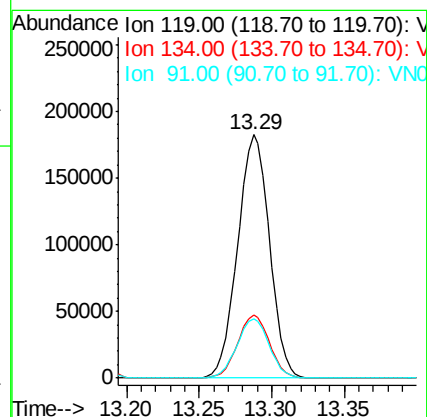
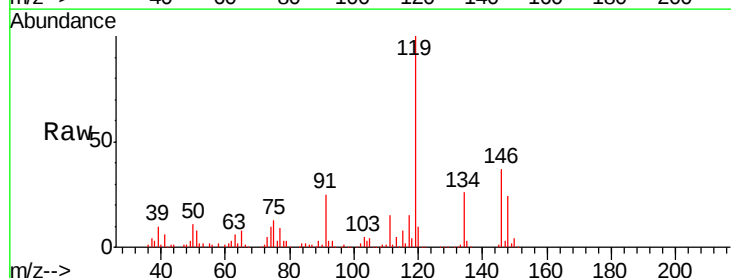
Acq: 19 Nov 2018 11:36

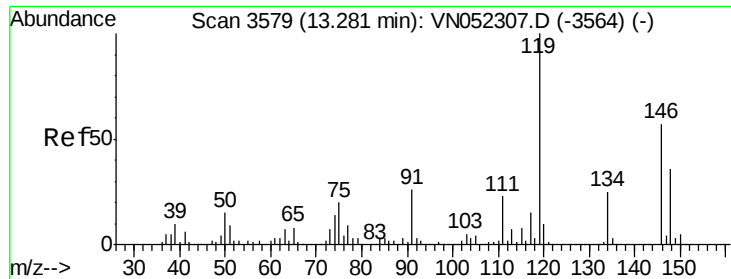
Tgt Ion:119 Resp: 278053
Ion Ratio Lower Upper

119 100

134 25.8 13.0 38.9

91 24.8 12.4 37.0





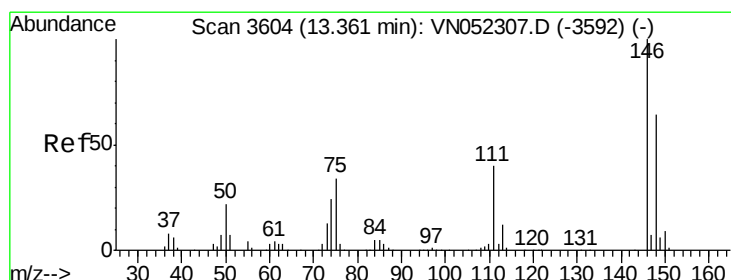
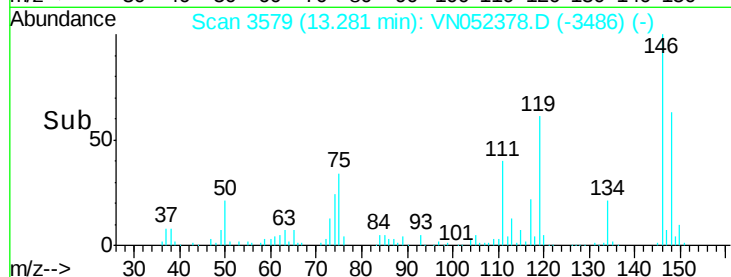
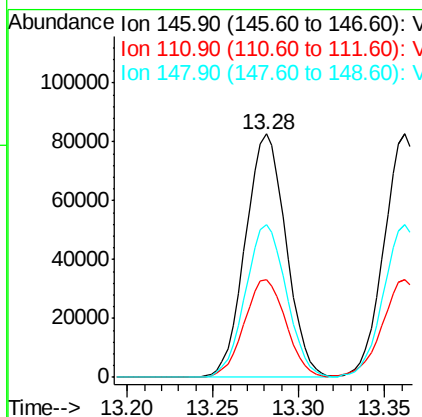
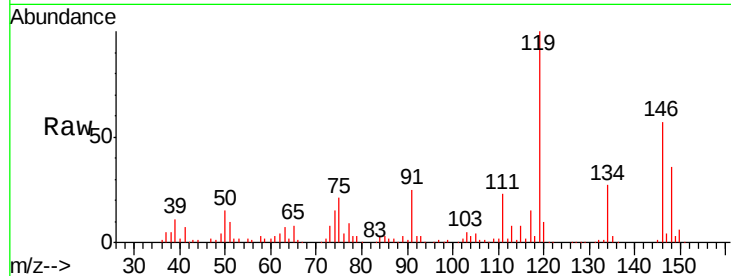
#87
 1,3-Dichlorobenzene
 Concen: 20.88 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN052378.D
 Acq: 19 Nov 2018 11:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1119WBS01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.1	20.3	61.0
148	63.1	31.8	95.4

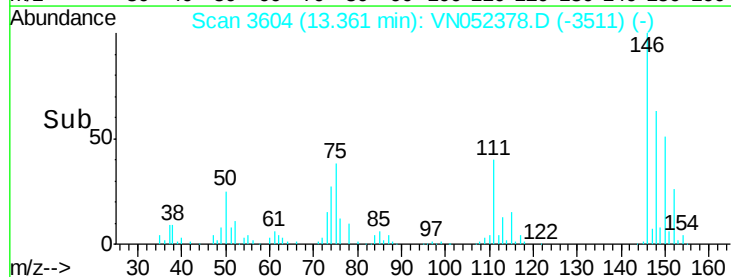
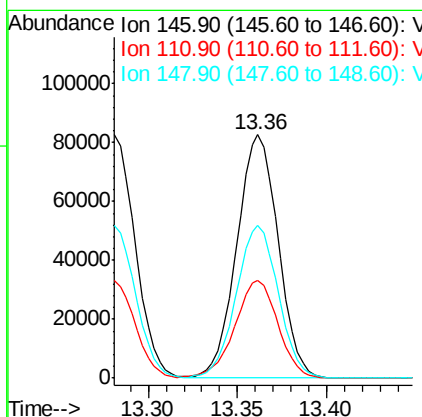
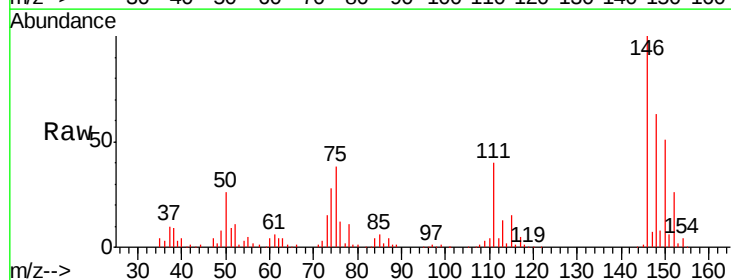
Manual Integrations
 APPROVED

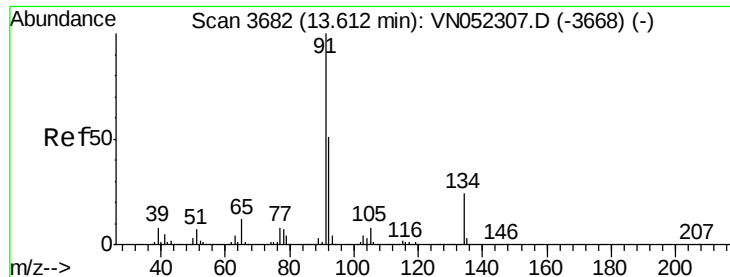
MMDadoda
 11/20/2018 11:39:12 AM



#88
 1,4-Dichlorobenzene
 Concen: 20.65 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. -0.00 min
 Lab File: VN052378.D
 Acq: 19 Nov 2018 11:36

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.0	20.6	61.8
148	63.9	32.4	97.2





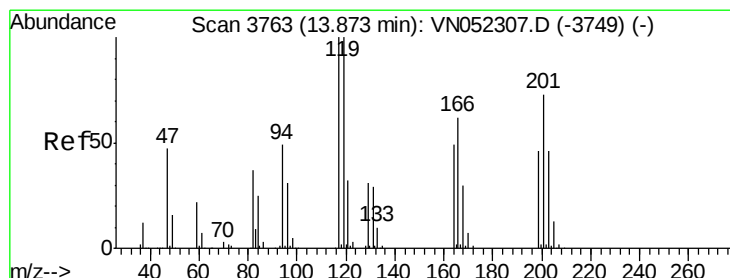
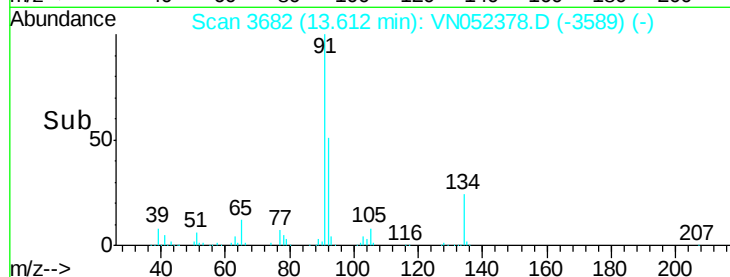
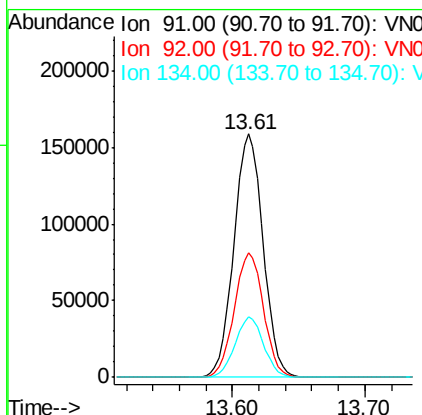
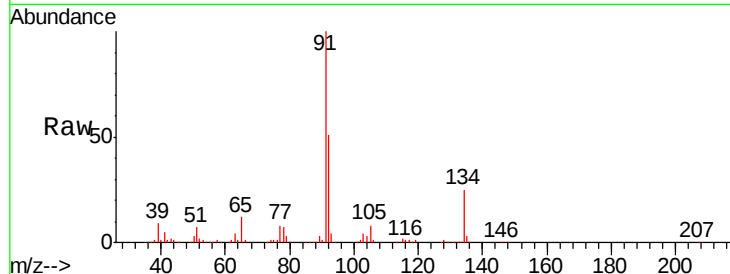
#89
n-Butylbenzene
Concen: 22.07 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS01

Tgt Ion	Ratio	Lower	Upper
91	100		
92	51.2	25.4	76.2
134	24.3	12.2	36.4

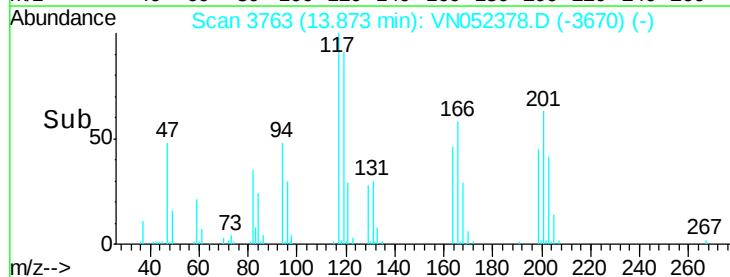
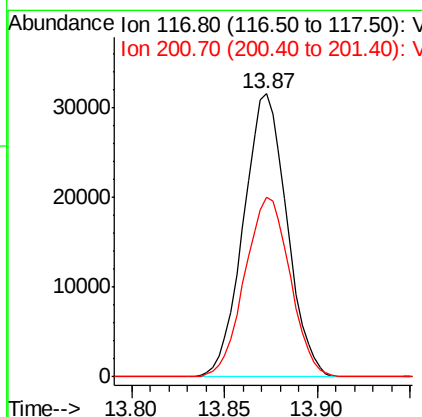
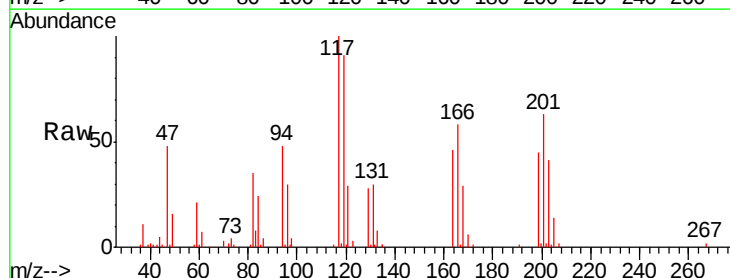
Manual Integrations
APPROVED

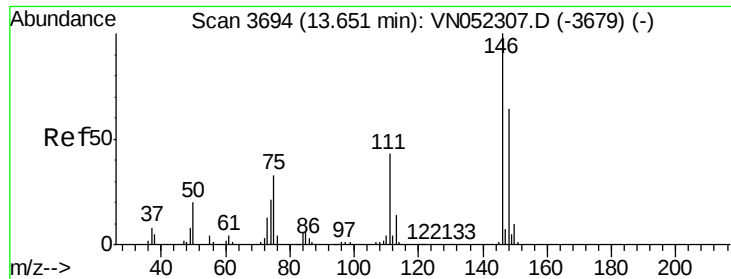
MMDadoda
11/20/2018 11:39:12 AM



#90
Hexachloroethane
Concen: 22.62 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Tgt Ion	Ratio	Lower	Upper
117	100		
201	66.1	35.3	105.9





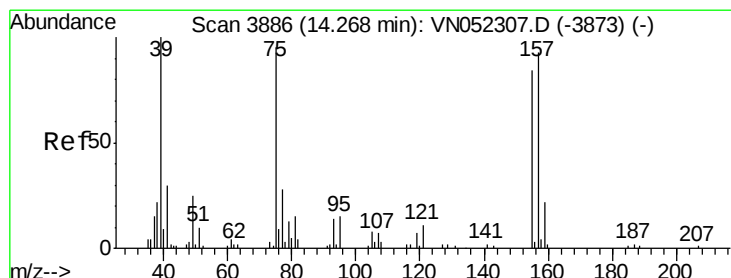
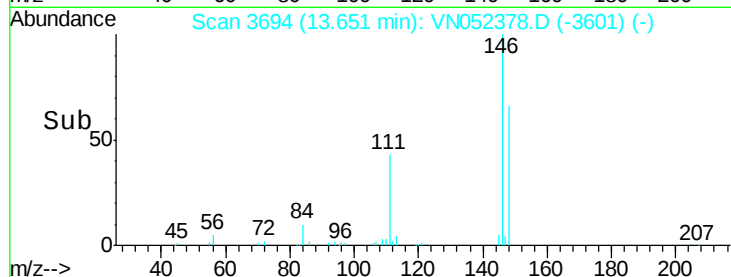
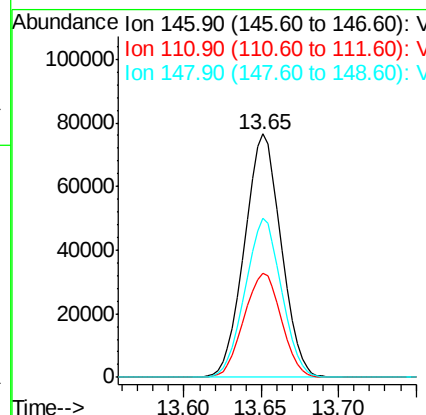
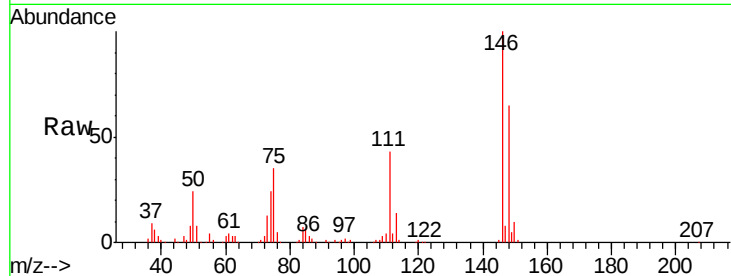
#91
 1,2-Dichlorobenzene
 Concen: 20.02 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN052378.D
 Acq: 19 Nov 2018 11:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1119WBS01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.5	21.3	63.9
148	64.6	31.6	94.8

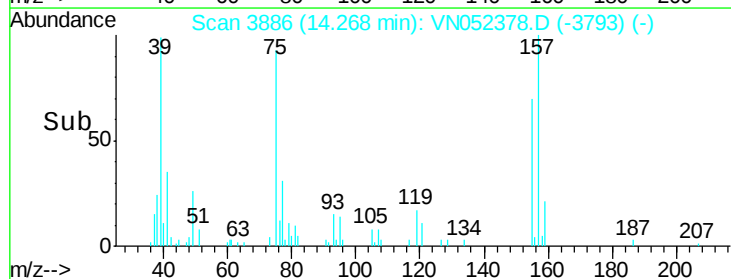
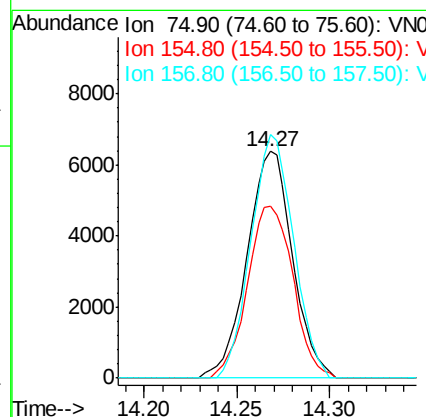
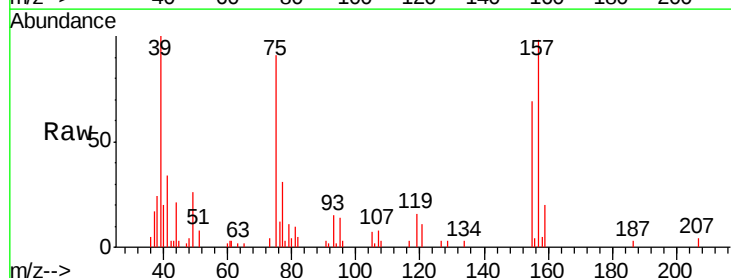
Manual Integrations
 APPROVED

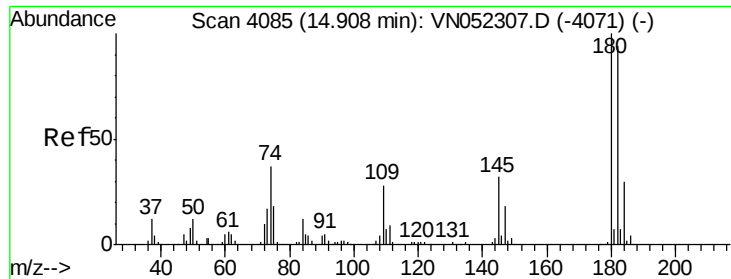
MMDadoda
 11/20/2018 11:39:12 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.32 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN052378.D
 Acq: 19 Nov 2018 11:36

Tgt Ion	Ratio	Lower	Upper
75	100		
155	75.8	42.4	127.3
157	100.7	49.6	149.0





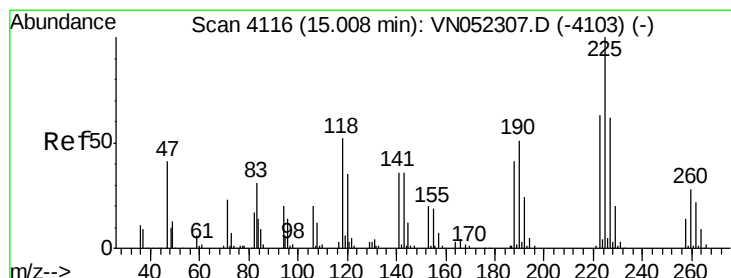
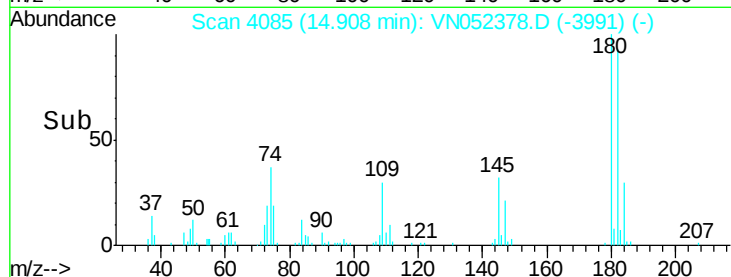
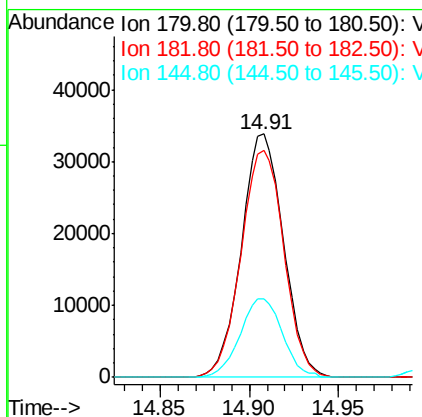
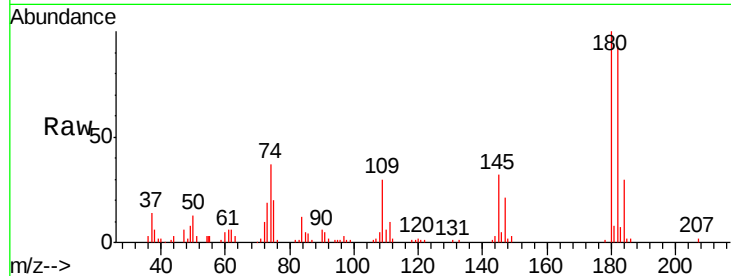
#93
 1,2,4-Trichlorobenzene
 Concen: 20.40 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN052378.D
 Acq: 19 Nov 2018 11:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1119WBS01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.6	142.9
145	32.4	15.5	46.5

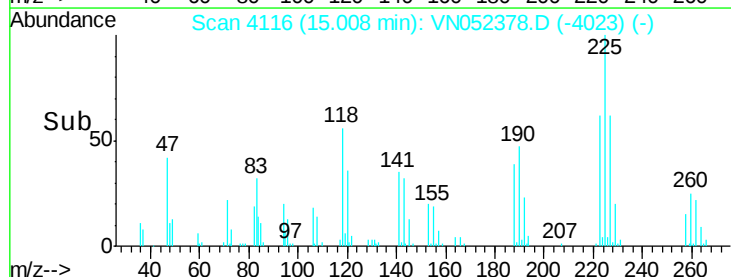
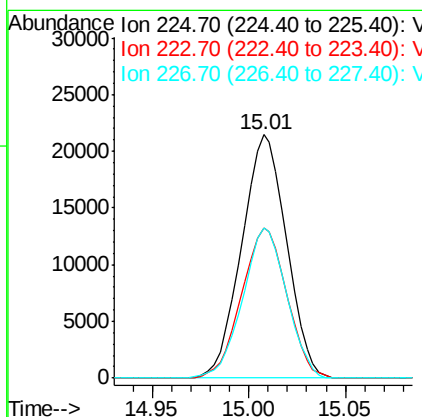
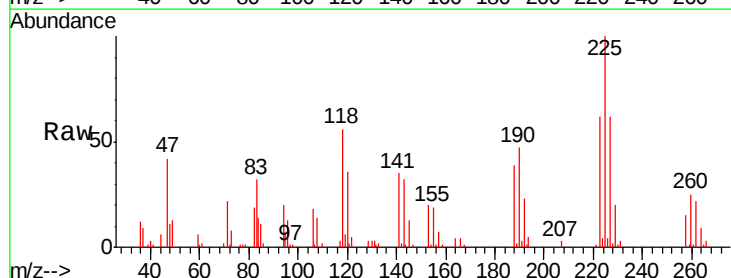
Manual Integrations
 APPROVED

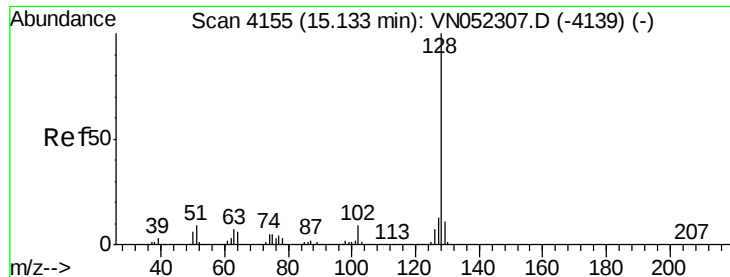
MMDadoda
 11/20/2018 11:39:12 AM



#94
 Hexachlorobutadiene
 Concen: 23.94 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN052378.D
 Acq: 19 Nov 2018 11:36

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.0	31.9	95.5
227	60.4	31.6	95.0





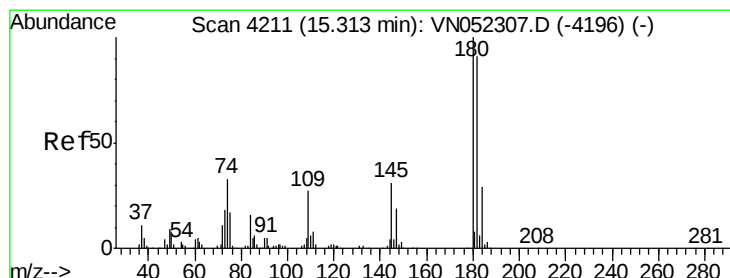
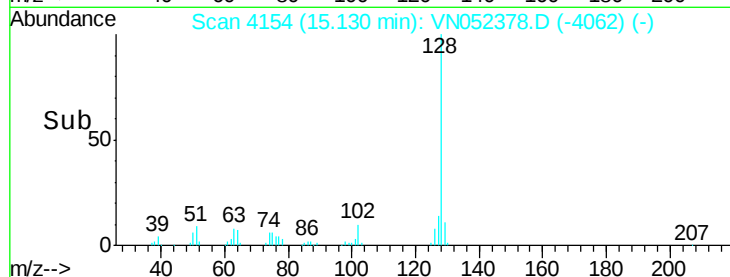
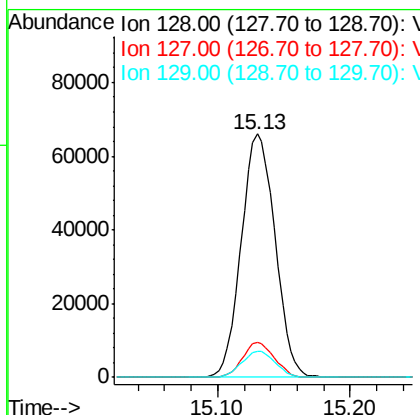
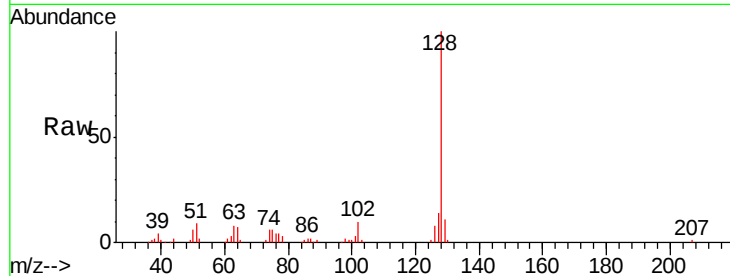
#95
Naphthalene
Concen: 18.63 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. -0.00 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS01

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	117352		
127	13.5	10.4	15.6	
129	10.5	8.6	13.0	

Manual Integrations
APPROVED

MMDadoda
11/20/2018 11:39:12 AM



#96
1,2,3-Trichlorobenzene
Concen: 20.61 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN052378.D
Acq: 19 Nov 2018 11:36

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	49418		
182	96.2	46.5	139.3	
145	35.2	16.4	49.2	

