

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW062019\
 Data File : VW010903.D
 Acq On : 20 Jun 2019 20:51
 Operator : SY/VA
 Sample : VSTDCCC050
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 6/21/2019 3:20:41 PM

Quant Time: Jun 21 08:46:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W060419S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 05 03:21:19 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	204189	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	339071	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	310365	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	150905	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	149357	62.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	124.12%	
35) Dibromofluoromethane	7.88	113	113775	61.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	123.64%	
50) Toluene-d8	10.32	98	455722	56.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.94%	
62) 4-Bromofluorobenzene	12.62	95	172331	58.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.36%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.00	85	92048	48.782	ug/l	97
3) Chloromethane	2.21	50	153291	55.217	ug/l	100
4) Vinyl Chloride	2.36	62	133153	51.913	ug/l	97
5) Bromomethane	2.75	94	78359	55.632	ug/l	96
6) Chloroethane	2.90	64	85311	55.411	ug/l	97
7) Trichlorofluoromethane	3.25	101	189448	56.899	ug/l	99
8) Diethyl Ether	3.68	74	73886	62.096	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	4.06	101	116371	56.849	ug/l	98
10) Methyl Iodide	4.27	142	109844	51.890	ug/l	97
11) Tert butyl alcohol	5.17	59	75990	387.566	ug/l	97
12) 1,1-Dichloroethene	4.03	96	110276	55.846	ug/l	95
13) Acrolein	3.89	56	19465	242.947	ug/l	99
14) Allyl chloride	4.67	41	267686	61.481	ug/l	98
15) Acrylonitrile	5.37	53	195973	339.023	ug/l	99
16) Acetone	4.12	43	223588	346.715	ug/l	100
17) Carbon Disulfide	4.37	76	320876	51.189	ug/l	100
18) Methyl Acetate	4.67	43	100671	72.521	ug/l	97
19) Methyl tert-butyl Ether	5.43	73	367656	64.556	ug/l	100
20) Methylene Chloride	4.92	84	136429	60.306	ug/l	95
21) trans-1,2-Dichloroethene	5.42	96	132446	59.084	ug/l	99
22) Diisopropyl ether	6.31	45	571215	65.531	ug/l	98
23) Vinyl Acetate	6.26	43	1732421	329.325	ug/l	99
24) 1,1-Dichloroethane	6.22	63	274708	62.886	ug/l	98
25) 2-Butanone	7.17	43	318318	355.978	ug/l	98
26) 2,2-Dichloropropane	7.17	77	208928	58.776	ug/l	99
27) cis-1,2-Dichloroethene	7.17	96	152639	61.874	ug/l	98
28) Bromochloromethane	7.51	49	123190	63.191	ug/l	95
29) Tetrahydrofuran	7.53	42	194043	344.996	ug/l	98
30) Chloroform	7.68	83	253686	63.491	ug/l	98
31) Cyclohexane	7.95	56	262887	54.137	ug/l	98
32) 1,1,1-Trichloroethane	7.87	97	211495	60.595	ug/l	99
36) 1,1-Dichloropropene	8.08	75	201207	57.972	ug/l	100
37) Ethyl Acetate	7.25	43	128790	66.963	ug/l	100
38) Carbon Tetrachloride	8.07	117	174460	58.228	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW062019\
 Data File : VW010903.D
 Acq On : 20 Jun 2019 20:51
 Operator : SY/VA
 Sample : VSTDCCC050
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleID :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 6/21/2019 3:20:41 PM

Quant Time: Jun 21 08:46:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W060419S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 05 03:21:19 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	242773	55.024	ug/l	97
40) Benzene	8.32	78	570759	60.280	ug/l	99
41) Methacrylonitrile	7.48	41	75566	66.100	ug/l	98
42) 1,2-Dichloroethane	8.40	62	194036	64.569	ug/l	99
43) Isopropyl Acetate	8.43	43	251889	67.790	ug/l	99
44) Trichloroethene	9.09	130	136349	58.377	ug/l	99
45) 1,2-Dichloropropane	9.37	63	158934	63.410	ug/l	97
46) Dibromomethane	9.46	93	74306	63.827	ug/l	98
47) Bromodichloromethane	9.64	83	189694	62.860	ug/l	96
48) Methyl methacrylate	9.44	41	119995	66.980	ug/l	96
49) 1,4-Dioxane	9.45	88	24524	1347.376	ug/l	98
51) 4-Methyl-2-Pentanone	10.21	43	668740	352.294	ug/l	98
52) Toluene	10.39	92	353309	60.646	ug/l	98
53) t-1,3-Dichloropropene	10.60	75	200432	62.706	ug/l	98
54) cis-1,3-Dichloropropene	10.07	75	233015	61.952	ug/l	99
55) 1,1,2-Trichloroethane	10.79	97	108776	64.859	ug/l	99
56) Ethyl methacrylate	10.65	69	169973	65.865	ug/l	96
57) 1,3-Dichloropropane	10.93	76	205817	65.120	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.93	63	406837	300.987	ug/l	98
59) 2-Hexanone	10.97	43	475544	346.631	ug/l	98
60) Dibromochloromethane	11.13	129	117111	62.992	ug/l	99
61) 1,2-Dibromoethane	11.24	107	100682	63.362	ug/l	99
64) Tetrachloroethene	10.87	164	126256	61.269	ug/l	99
65) Chlorobenzene	11.66	112	361764	59.274	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.73	131	129104	61.107	ug/l	99
67) Ethyl Benzene	11.73	91	691551	58.958	ug/l	99
68) m/p-Xylenes	11.84	106	492943	117.398	ug/l	97
69) o-Xylene	12.16	106	236507	59.389	ug/l	97
70) Styrene	12.18	104	422342	61.051	ug/l	99
71) Bromoform	12.35	173	66447	60.811	ug/l #	100
73) Isopropylbenzene	12.46	105	654951	57.756	ug/l	99
74) N-amyl acetate	12.27	43	244692	66.766	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.71	83	135430	62.733	ug/l	100
76) 1,2,3-Trichloropropane	12.77	75	98361m	62.069	ug/l	
77) Bromobenzene	12.75	156	147706	59.671	ug/l	97
78) n-propylbenzene	12.80	91	799712	58.485	ug/l	100
79) 2-Chlorotoluene	12.90	91	462442	59.196	ug/l	99
80) 1,3,5-Trimethylbenzene	12.94	105	553435	59.625	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.51	75	41142	59.669	ug/l	95
82) 4-Chlorotoluene	12.99	91	479870	59.525	ug/l	99
83) tert-Butylbenzene	13.21	119	461182	58.545	ug/l	99
84) 1,2,4-Trimethylbenzene	13.26	105	559621	59.915	ug/l	99
85) sec-Butylbenzene	13.38	105	667072	58.162	ug/l	99
86) p-Isopropyltoluene	13.50	119	598549	58.359	ug/l	99
87) 1,3-Dichlorobenzene	13.50	146	285807	59.873	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	283144	59.830	ug/l	99
89) n-Butylbenzene	13.83	91	605851	59.204	ug/l	99
90) Hexachloroethane	14.10	117	108054	58.829	ug/l	98
91) 1,2-Dichlorobenzene	13.87	146	259295	60.402	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.49	75	24119	65.061	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW062019\
Data File : VW010903.D
Acq On : 20 Jun 2019 20:51
Operator : SY/VA
Sample : VSTDCCC050
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

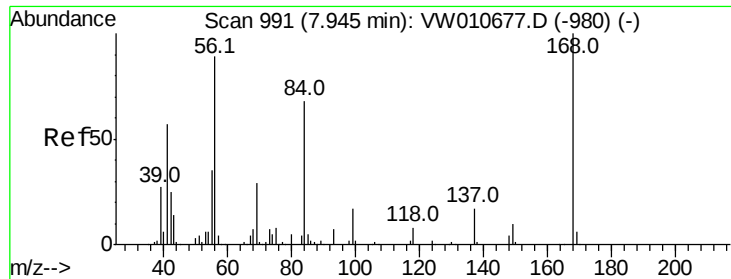
Manual Integrations
APPROVED

MMDadoda
6/21/2019 3:20:41 PM

Quant Time: Jun 21 08:46:21 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W060419S.M
Quant Title : SW846 8260
QLast Update : Wed Jun 05 03:21:19 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.14	180	185973	61.734	ug/l	100
94) Hexachlorobutadiene	15.24	225	112422	59.461	ug/l	98
95) Naphthalene	15.37	128	354266	64.725	ug/l	99
96) 1,2,3-Trichlorobenzene	15.56	180	164774	64.315	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW010903.D

Acq: 20 Jun 2019 20:51

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 204189

Ion Ratio Lower Upper

168 100

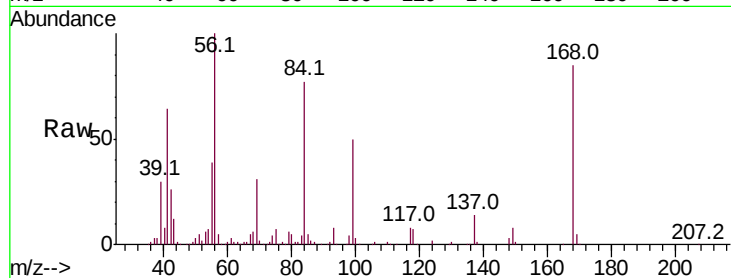
99 59.5 47.7 71.5

Manual Integrations

APPROVED

MMDadoda

6/21/2019 3:20:41 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

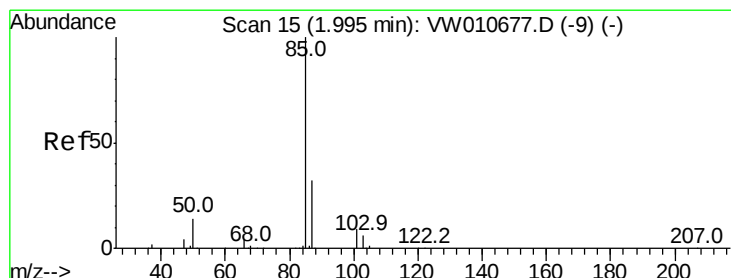
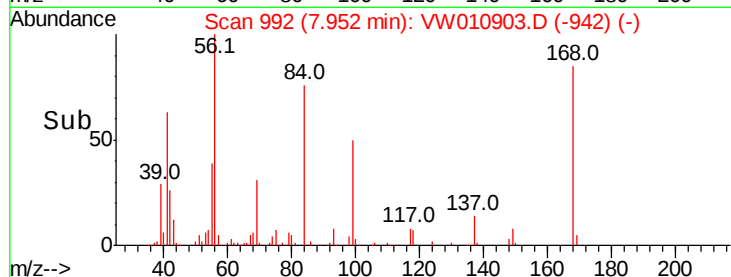
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: 48.782 ug/l

RT: 2.00 min Scan# 15

Delta R.T. 0.00 min

Lab File: VW010903.D

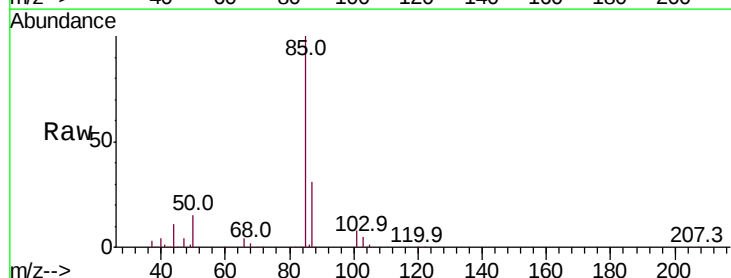
Acq: 20 Jun 2019 20:51

Tgt Ion: 85 Resp: 92048

Ion Ratio Lower Upper

85 100

87 30.7 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.00

60000

50000

40000

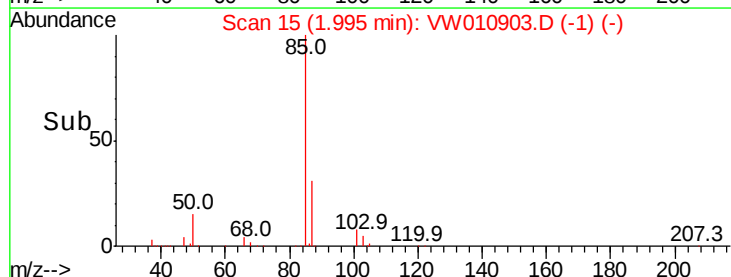
30000

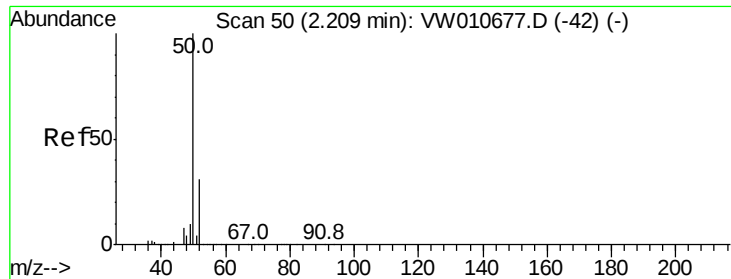
20000

10000

0

Time--> 1.90 2.00 2.10





#3

Chloromethane

Concen: 55.217 ug/l

RT: 2.21 min Scan# 51

Delta R.T. 0.01 min

Lab File: VW010903.D

Acq: 20 Jun 2019 20:51

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 153291

Ion Ratio Lower Upper

50 100

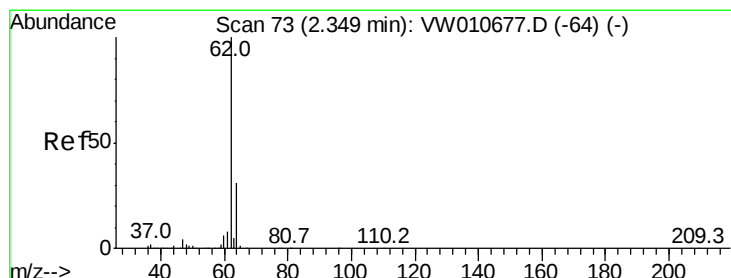
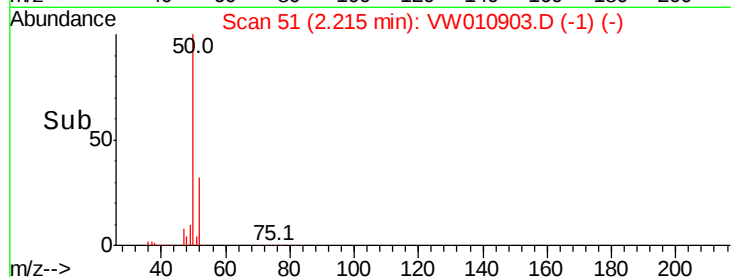
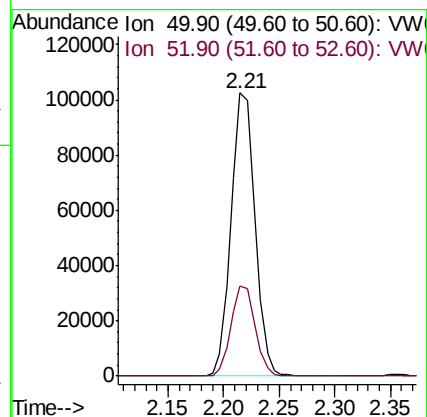
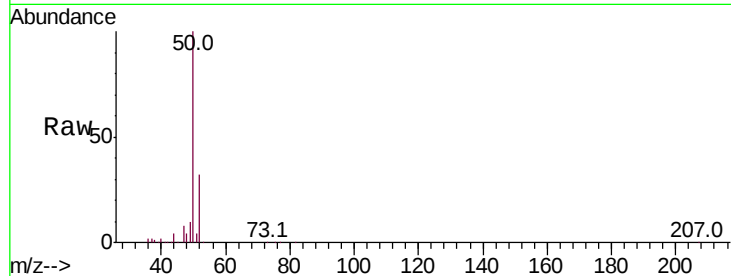
52 31.7 25.2 37.8

Manual Integrations

APPROVED

MMDadoda

6/21/2019 3:20:41 PM



#4

Vinyl Chloride

Concen: 51.913 ug/l

RT: 2.36 min Scan# 74

Delta R.T. 0.01 min

Lab File: VW010903.D

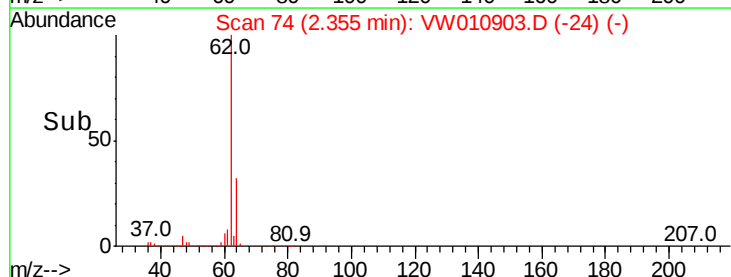
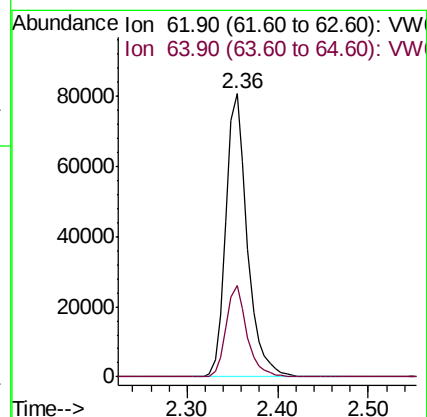
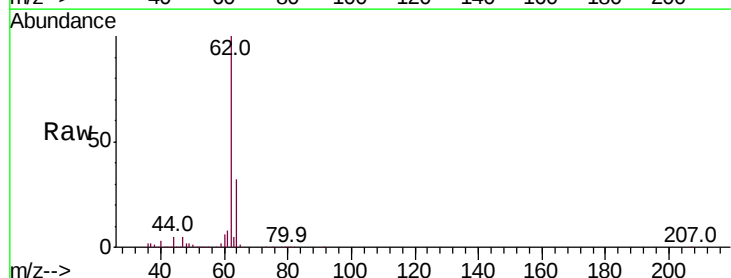
Acq: 20 Jun 2019 20:51

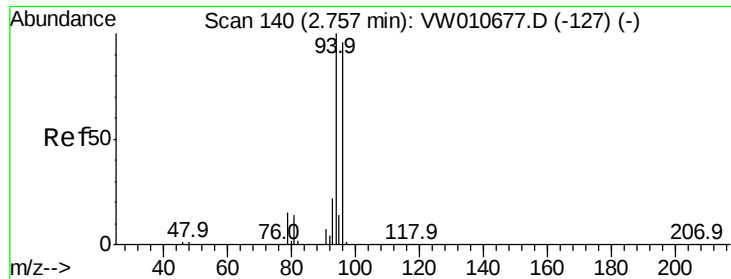
Tgt Ion: 62 Resp: 133153

Ion Ratio Lower Upper

62 100

64 32.1 24.5 36.7





#5

Bromomethane

Concen: 55.632 ug/l

RT: 2.75 min Scan# 138

Delta R.T. -0.01 min

Lab File: VW010903.D

Acq: 20 Jun 2019 20:51

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

Tot Ion: 94 Resp: 78359

Ion Ratio Lower Upper

94 100

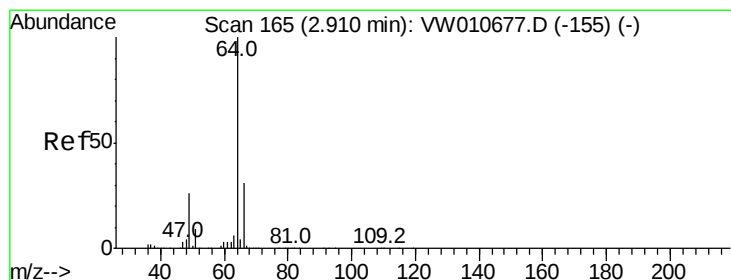
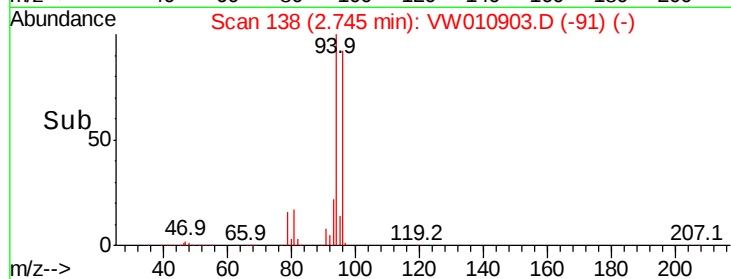
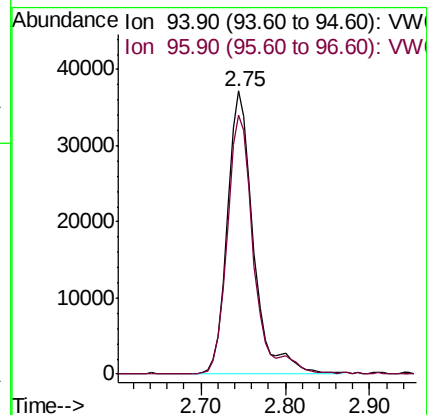
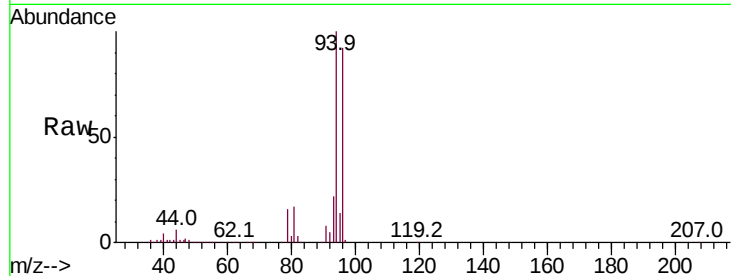
96 91.6 76.5 114.7

Manual Integrations

APPROVED

MMDadoda

6/21/2019 3:20:41 PM



#6

Chloroethane

Concen: 55.411 ug/l

RT: 2.90 min Scan# 164

Delta R.T. -0.01 min

Lab File: VW010903.D

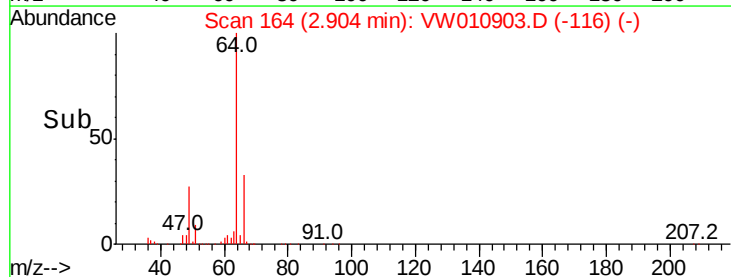
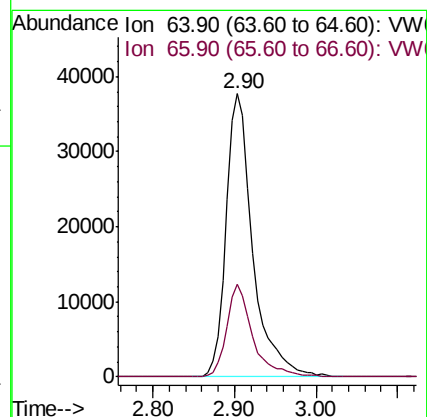
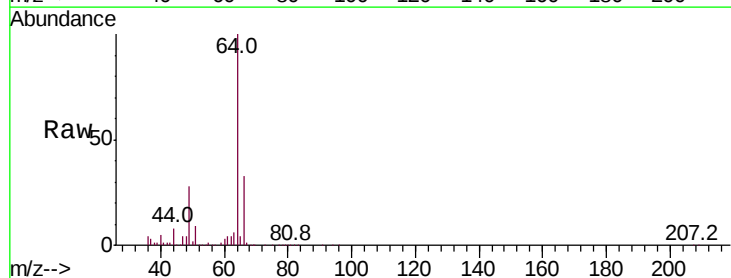
Acq: 20 Jun 2019 20:51

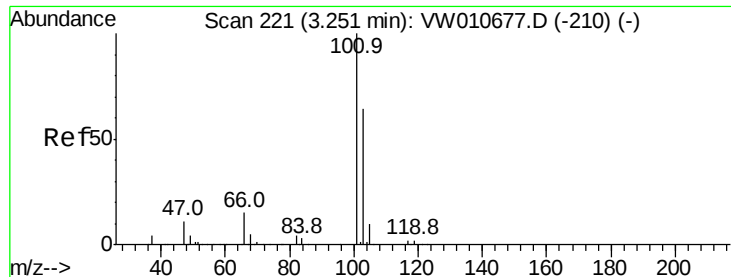
Tgt Ion: 64 Resp: 85311

Ion Ratio Lower Upper

64 100

66 32.8 25.1 37.7





#7

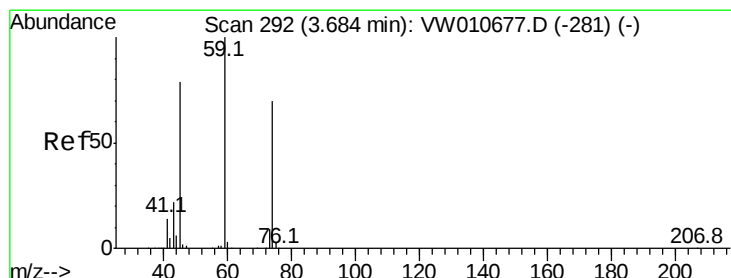
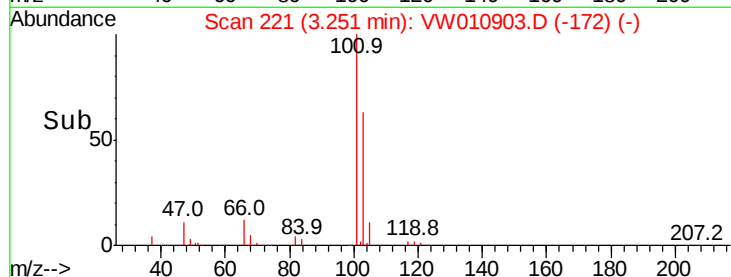
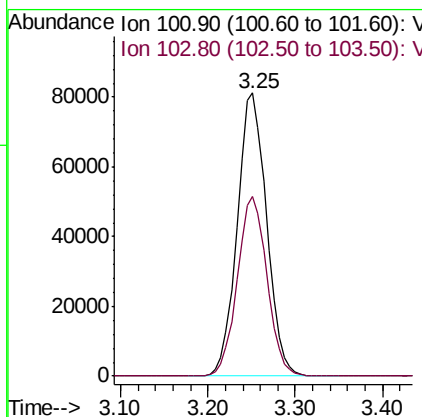
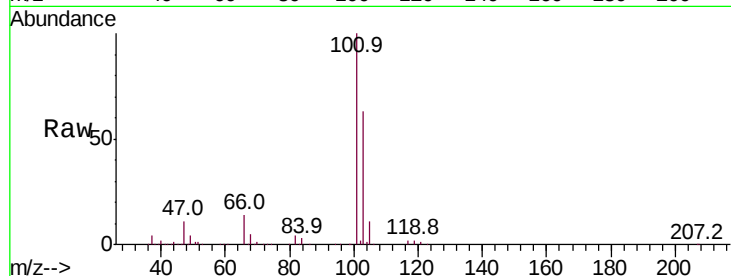
Trichlorofluoromethane
 Concen: 56.899 ug/l
 RT: 3.25 min Scan# 221
 Delta R.T. 0.00 min
 Lab File: VW010903.D
 Acq: 20 Jun 2019 20:51

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.3	51.2	76.8

Manual Integrations
 APPROVED

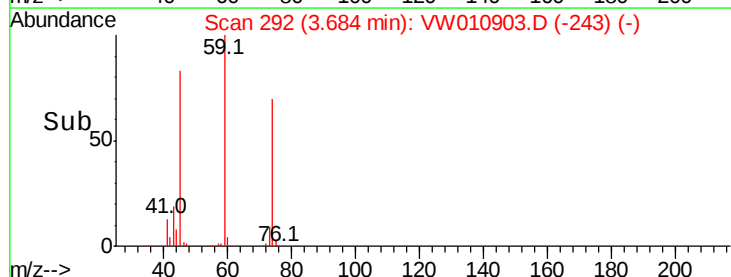
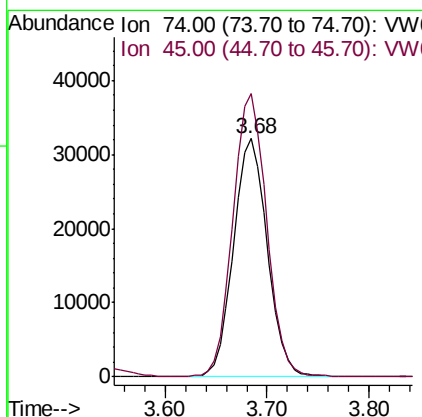
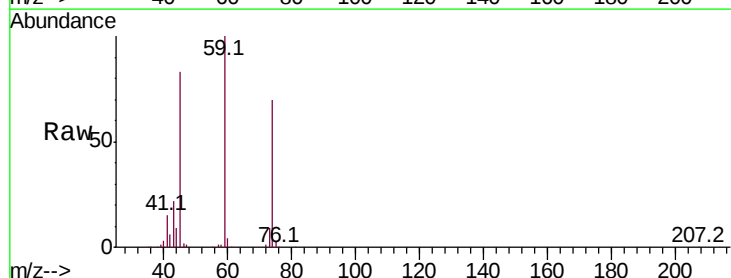
MMDadoda
 6/21/2019 3:20:41 PM

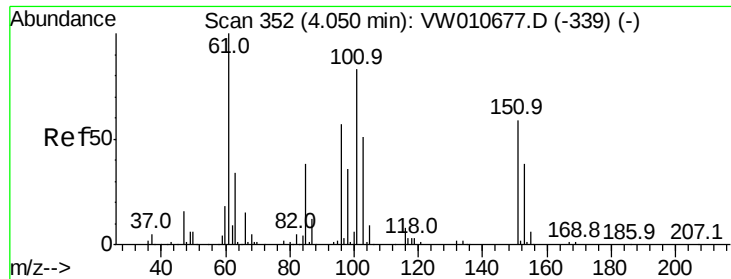


#8

Diethyl Ether
 Concen: 62.096 ug/l
 RT: 3.68 min Scan# 292
 Delta R.T. 0.00 min
 Lab File: VW010903.D
 Acq: 20 Jun 2019 20:51

Tgt Ion	Ratio	Lower	Upper
74	100		
45	118.2	56.9	170.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 56.849 ug/l

RT: 4.06 min Scan# 353

Delta R.T. 0.01 min

Lab File: VW010903.D

Acq: 20 Jun 2019 20:51

Instrument :

MSVOA_W

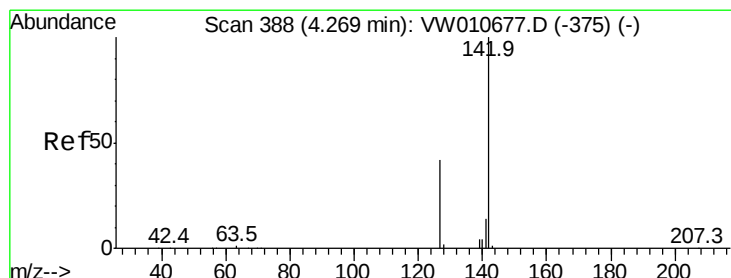
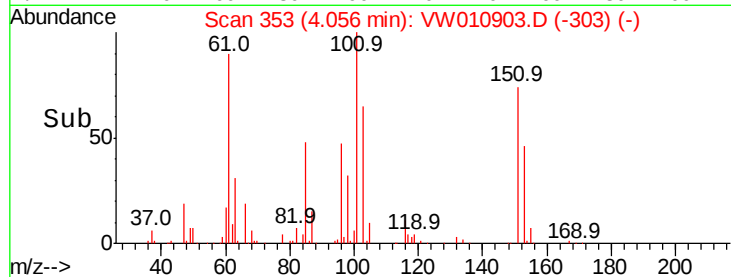
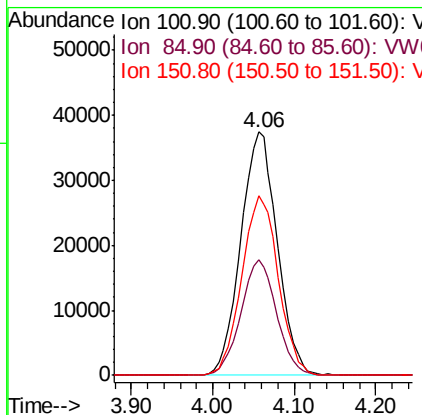
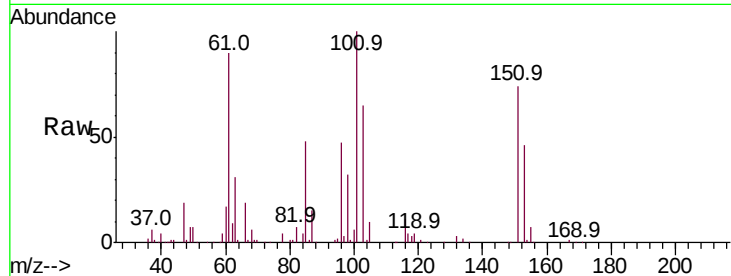
ClientSampleId :

VSTDCCC050EC

Tot Ion:	101	Resp:	116371
Ion Ratio	Lower	Upper	
101	100		
85	46.3	35.8	53.8
151	74.0	58.1	87.1

Manual Integrations
APPROVED

MMDadoda
6/21/2019 3:20:41 PM



#10

Methyl Iodide

Concen: 51.890 ug/l

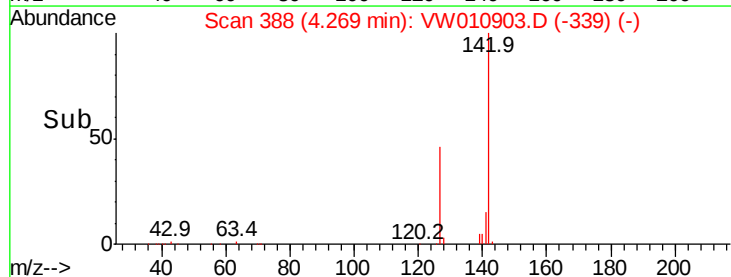
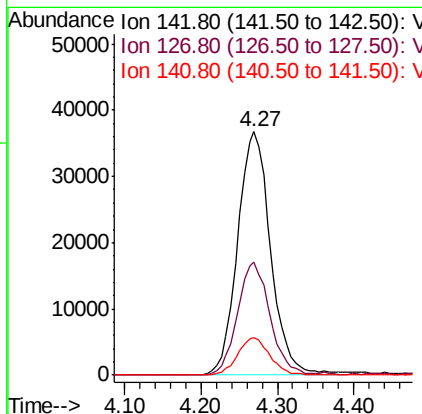
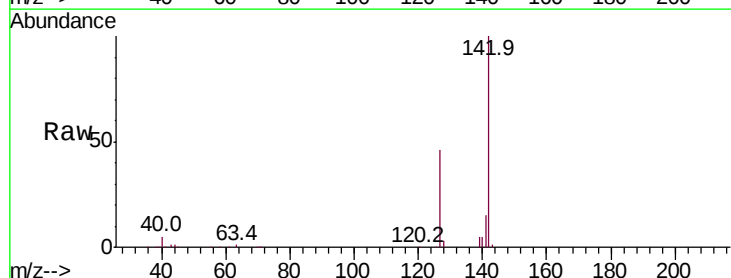
RT: 4.27 min Scan# 388

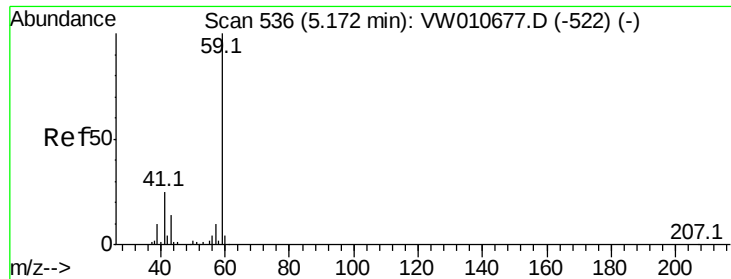
Delta R.T. 0.00 min

Lab File: VW010903.D

Acq: 20 Jun 2019 20:51

Tgt Ion:	142	Resp:	109844
Ion Ratio	Lower	Upper	
142	100		
127	45.8	34.6	51.8
141	15.1	11.6	17.4





#11

Tert butyl alcohol

Concen: 387.566 ug/l

RT: 5.17 min Scan# 535

Delta R.T. -0.01 min

Lab File: VW010903.D

Acq: 20 Jun 2019 20:51

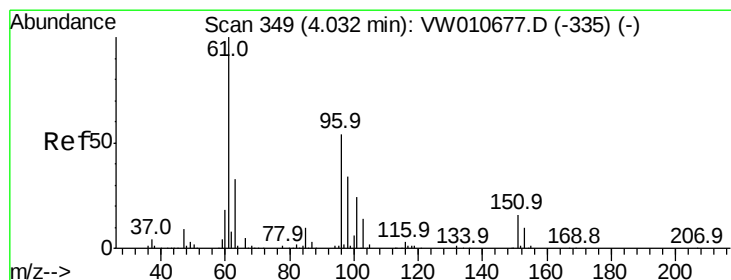
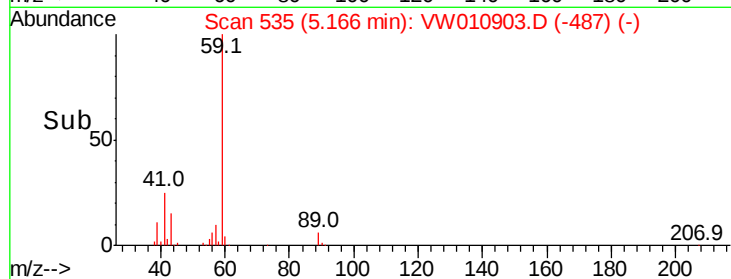
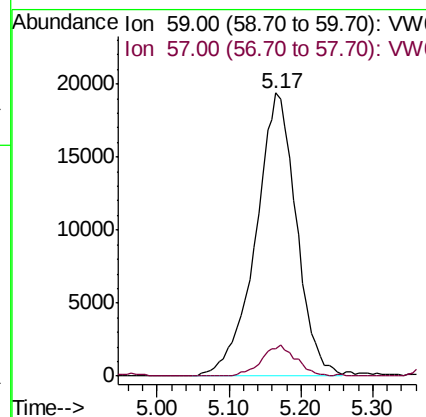
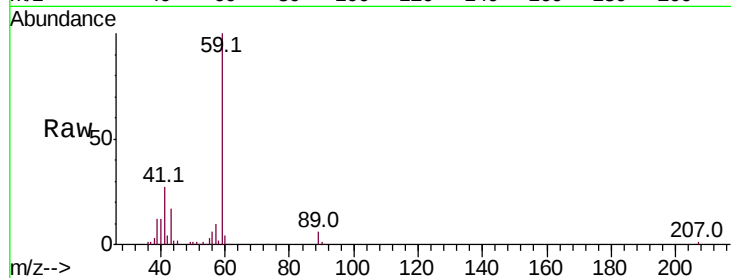
Instrument :
MSVOA_W

ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.4	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
6/21/2019 3:20:41 PM



#12

1,1-Dichloroethene

Concen: 55.846 ug/l

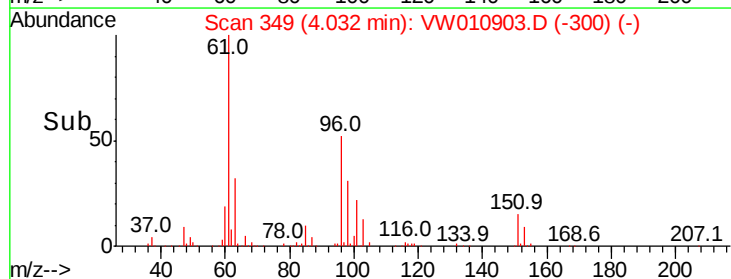
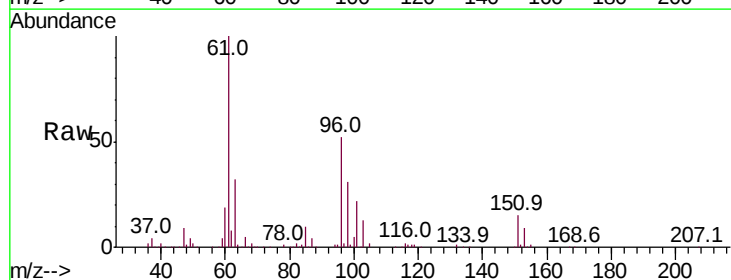
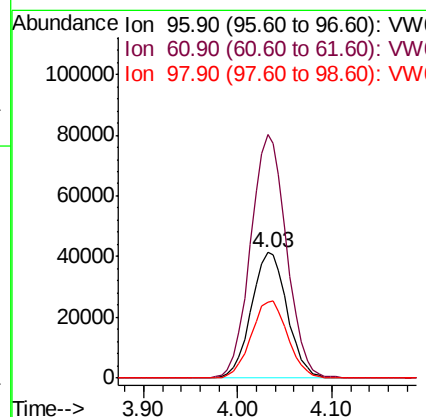
RT: 4.03 min Scan# 349

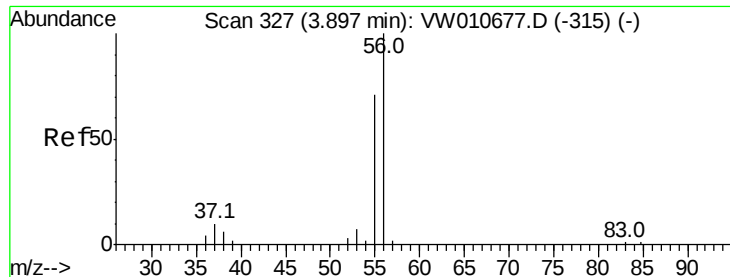
Delta R.T. 0.00 min

Lab File: VW010903.D

Acq: 20 Jun 2019 20:51

Tgt Ion	Ratio	Lower	Upper
96	100		
61	194.1	149.1	223.7
98	61.0	51.1	76.7





#13

Acrolein

Concen: 242.947 ug/l

RT: 3.89 min Scan# 326

Delta R.T. -0.01 min

Lab File: VW010903.D

Acq: 20 Jun 2019 20:51

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

Tot Ion: 56 Resp: 19465

Ion Ratio Lower Upper

56 100

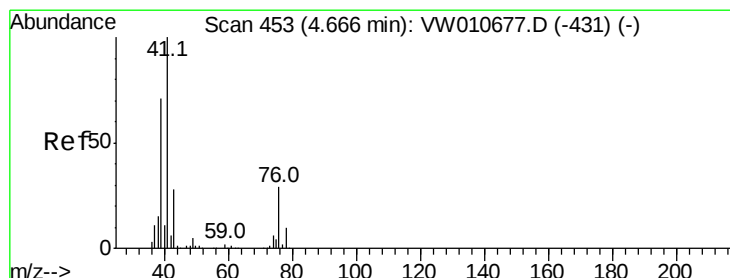
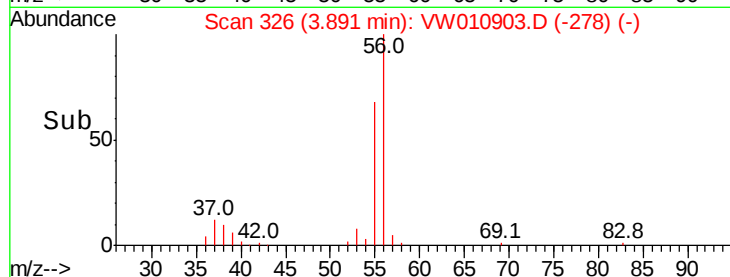
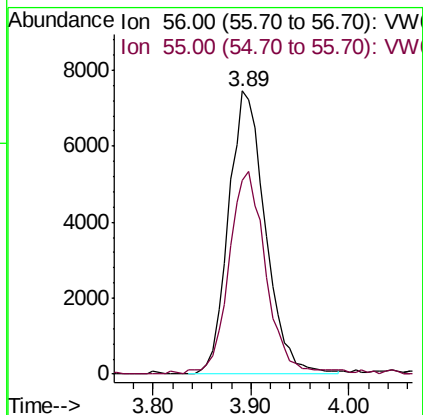
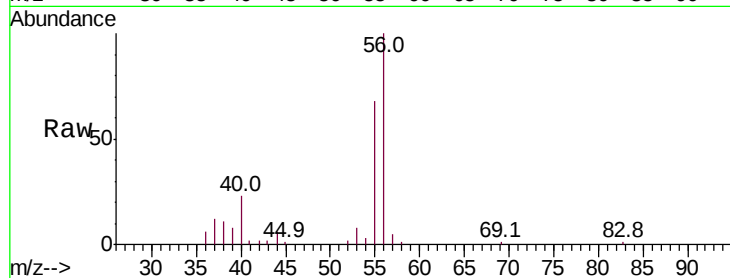
55 71.5 57.6 86.4

Manual Integrations

APPROVED

MMDadoda

6/21/2019 3:20:41 PM



#14

Allyl chloride

Concen: 61.481 ug/l

RT: 4.67 min Scan# 453

Delta R.T. 0.00 min

Lab File: VW010903.D

Acq: 20 Jun 2019 20:51

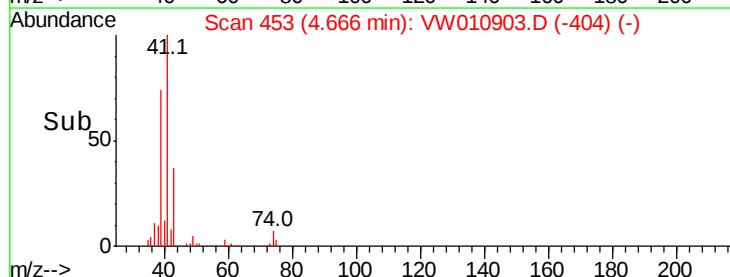
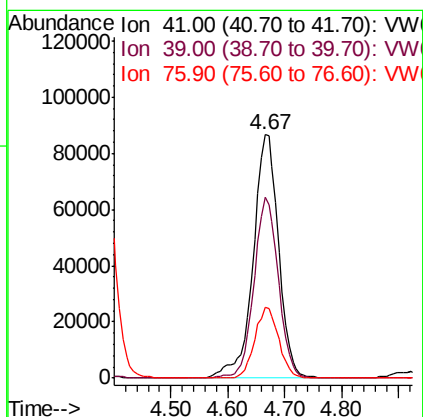
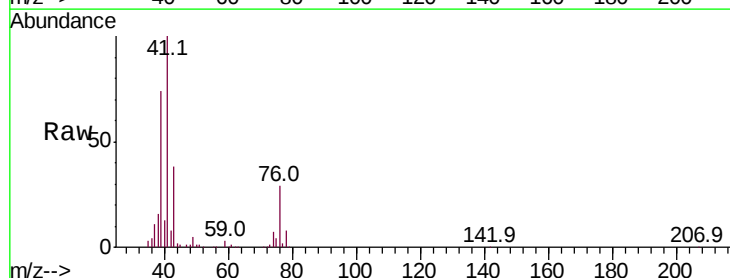
Tgt Ion: 41 Resp: 267686

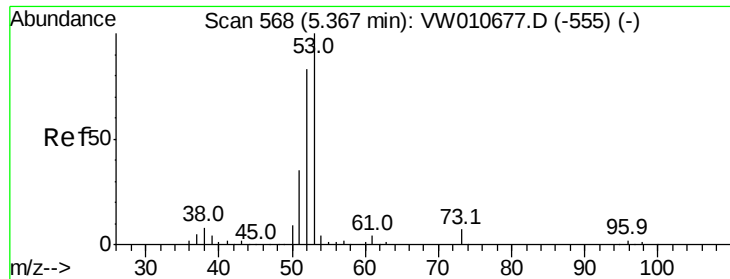
Ion Ratio Lower Upper

41 100

39 71.1 55.8 83.6

76 27.4 22.7 34.1





#15

Acrylonitrile

Concen: 339.023 ug/l

RT: 5.37 min Scan# 568

Delta R.T. 0.00 min

Lab File: VW010903.D

Acq: 20 Jun 2019 20:51

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

Tot Ion: 53 Resp: 195973

Ion Ratio Lower Upper

53 100

52 84.3 66.6 100.0

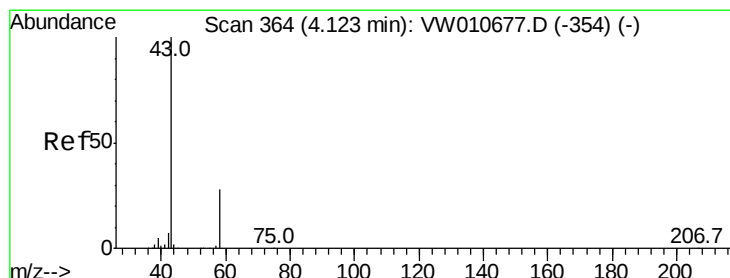
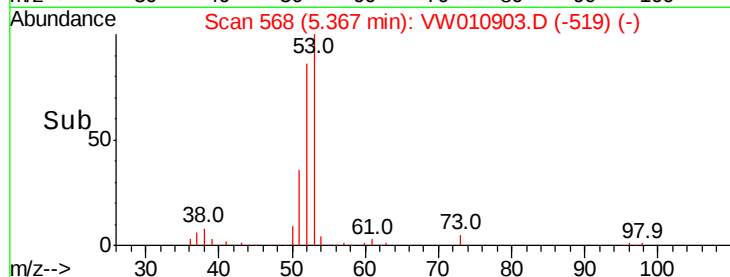
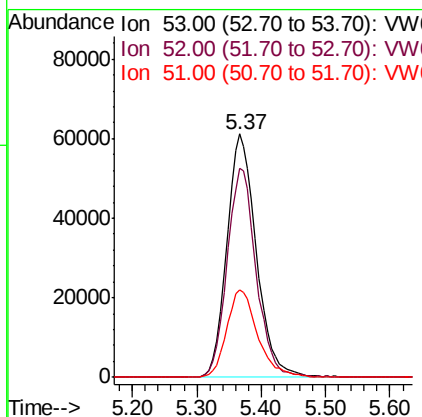
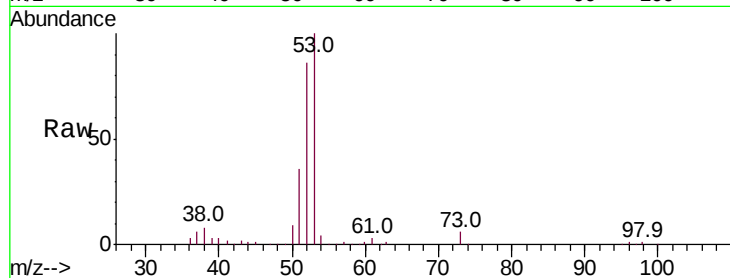
51 37.7 29.8 44.8

Manual Integrations

APPROVED

MMDadoda

6/21/2019 3:20:41 PM



#16

Acetone

Concen: 346.715 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.00 min

Lab File: VW010903.D

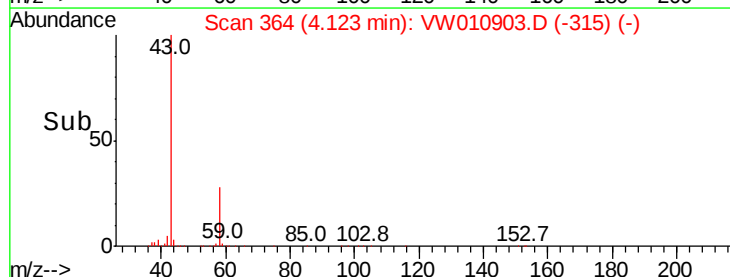
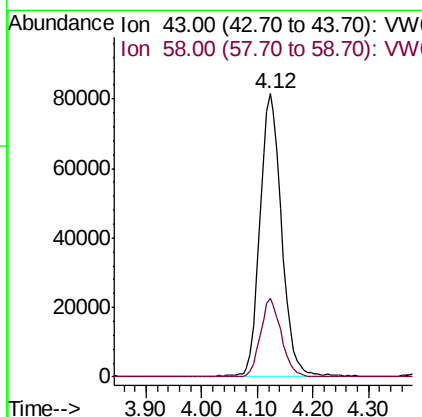
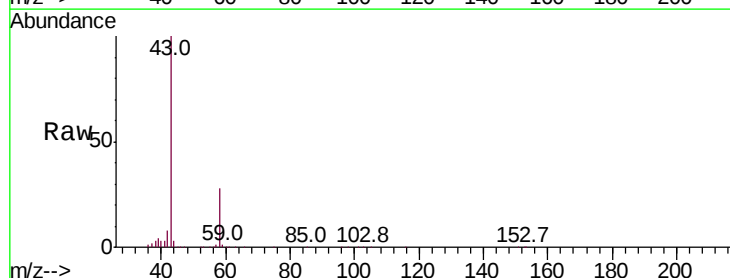
Acq: 20 Jun 2019 20:51

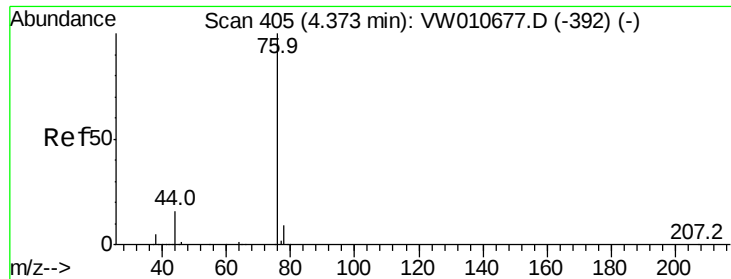
Tgt Ion: 43 Resp: 223588

Ion Ratio Lower Upper

43 100

58 27.6 22.1 33.1





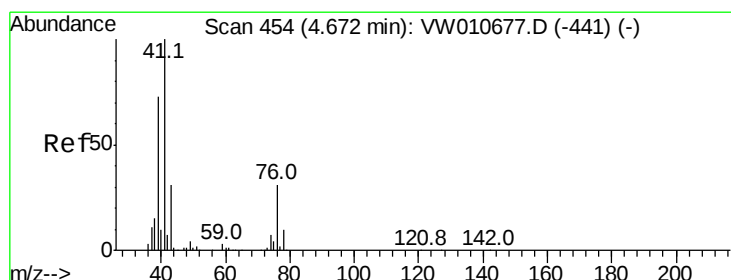
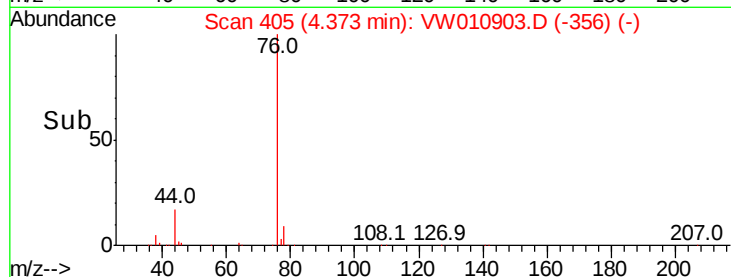
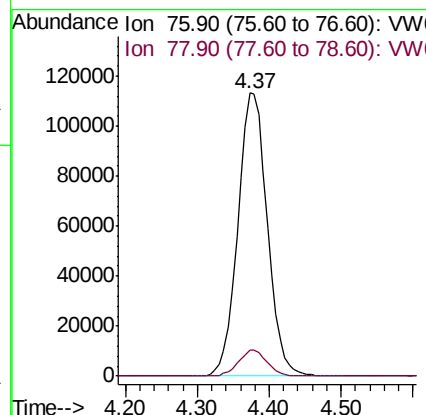
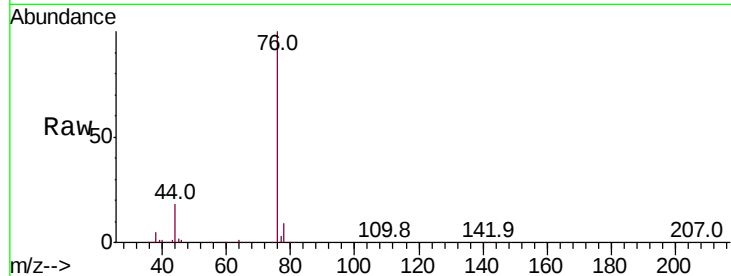
#17
Carbon Disulfide
Concen: 51.189 ug/l
RT: 4.37 min Scan# 405
Delta R.T. 0.00 min
Lab File: VW010903.D
Acq: 20 Jun 2019 20:51

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.5	11.3

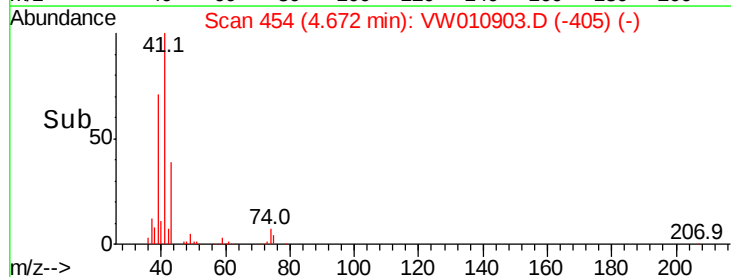
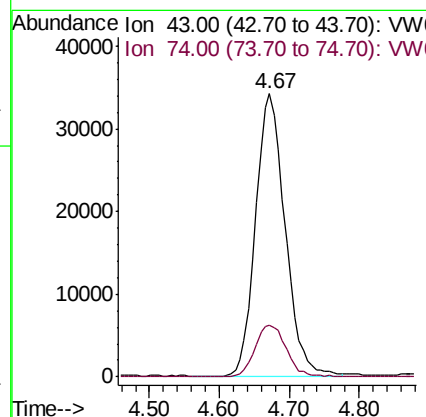
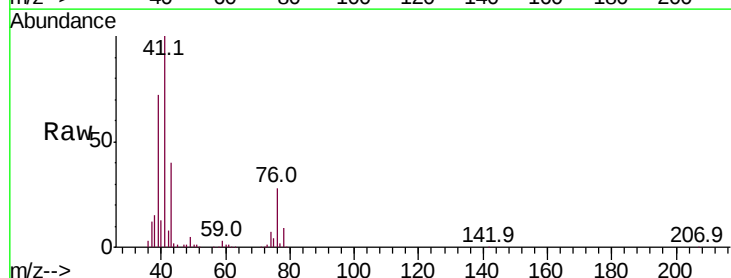
Manual Integrations
APPROVED

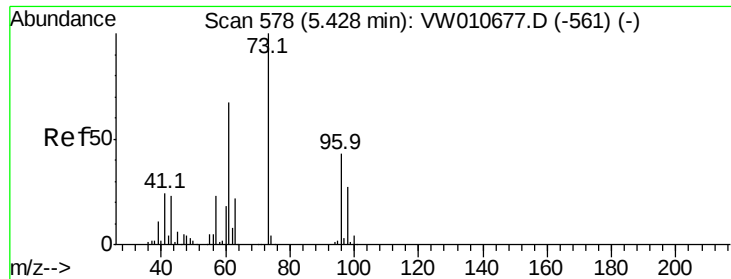
MMDadoda
6/21/2019 3:20:41 PM



#18
Methyl Acetate
Concen: 72.521 ug/l
RT: 4.67 min Scan# 454
Delta R.T. 0.00 min
Lab File: VW010903.D
Acq: 20 Jun 2019 20:51

Tgt Ion	Ratio	Lower	Upper
43	100		
74	19.5	16.7	25.1





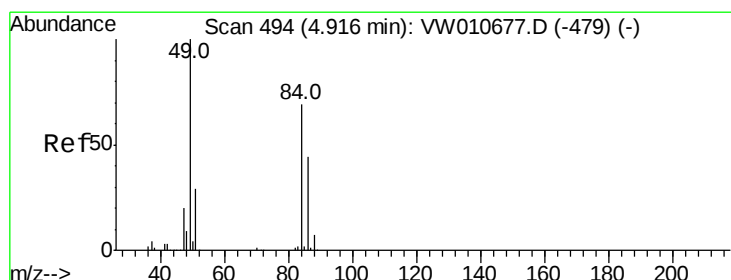
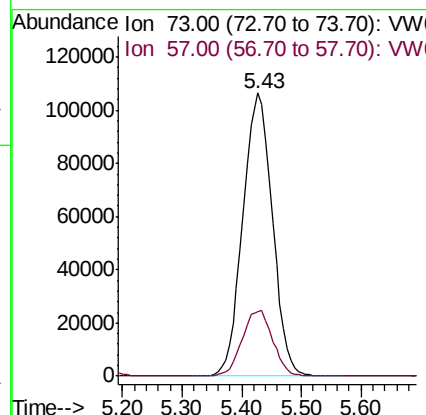
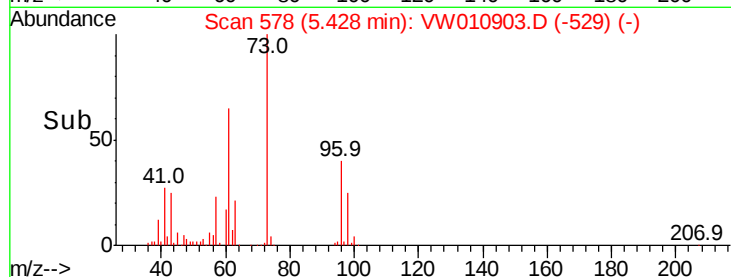
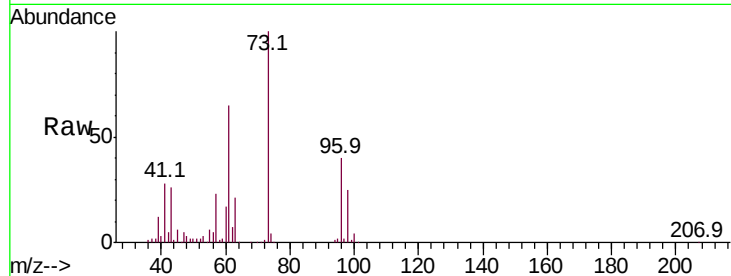
#19
Methvl tert-butvl Ether
Concen: 64.556 ug/l
RT: 5.43 min Scan# 578
Delta R.T. 0.00 min
Lab File: VW010903.D
Acq: 20 Jun 2019 20:51

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion: 73 Resp: 367656
Ion Ratio Lower Upper
73 100
57 23.0 18.6 27.8

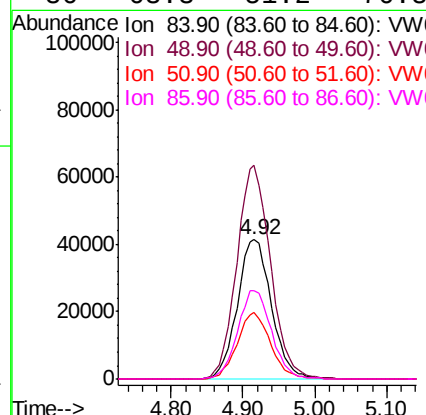
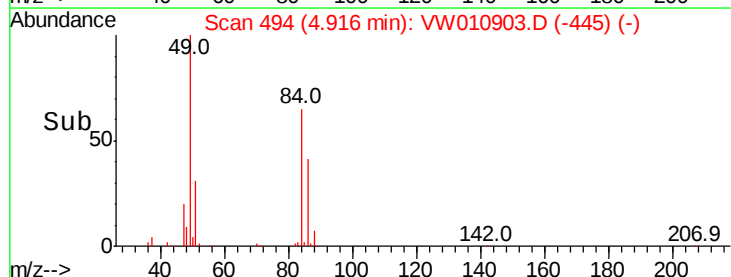
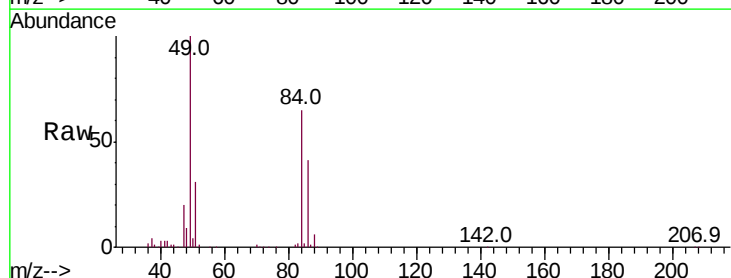
Manual Integrations
APPROVED

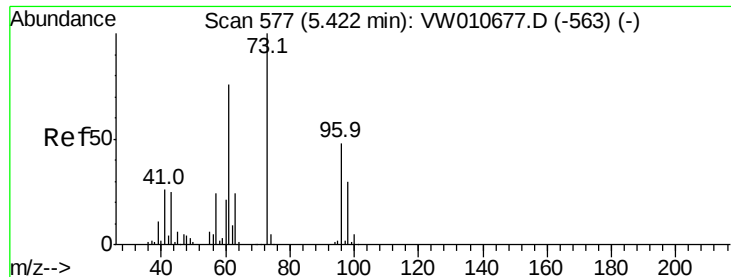
MMDadoda
6/21/2019 3:20:41 PM



#20
Methylene Chloride
Concen: 60.306 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW010903.D
Acq: 20 Jun 2019 20:51

Tgt Ion: 84 Resp: 136429
Ion Ratio Lower Upper
84 100
49 153.4 116.7 175.1
51 47.5 34.2 51.2
86 63.3 51.2 76.8





#21

trans-1,2-Dichloroethene

Concen: 59.084 ug/l

RT: 5.42 min Scan# 577

Delta R.T. 0.00 min

Lab File: VW010903.D

Acq: 20 Jun 2019 20:51

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

Tot Ion: 96 Resp: 132446

Ion Ratio Lower Upper

96 100

61 159.0 126.0 189.0

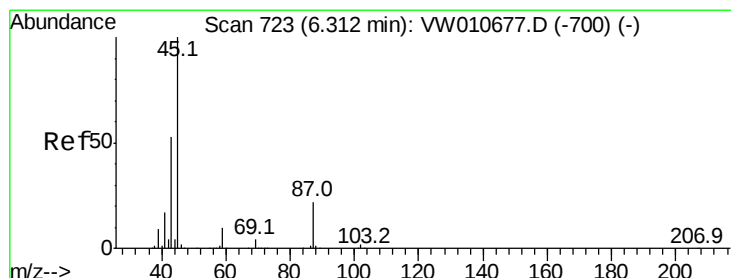
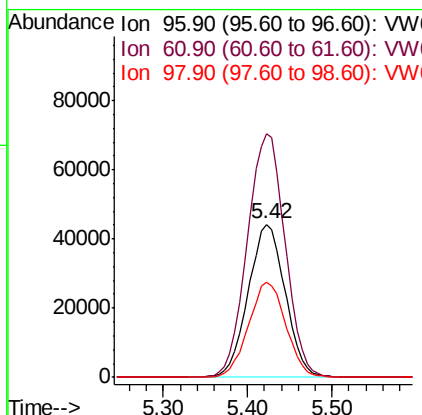
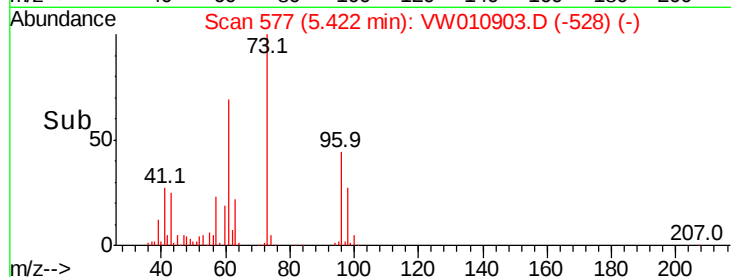
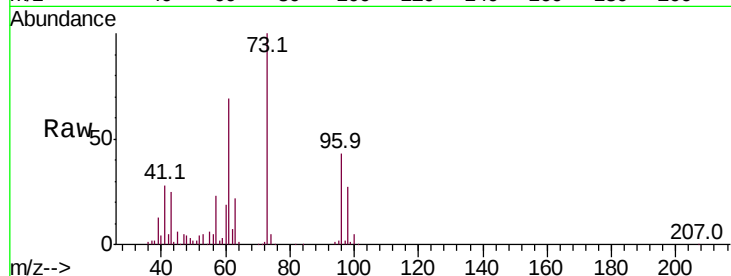
98 62.2 49.6 74.4

Manual Integrations

APPROVED

MMDadoda

6/21/2019 3:20:41 PM



#22

Diisopropyl ether

Concen: 65.531 ug/l

RT: 6.31 min Scan# 723

Delta R.T. 0.00 min

Lab File: VW010903.D

Acq: 20 Jun 2019 20:51

Tgt Ion: 45 Resp: 571215

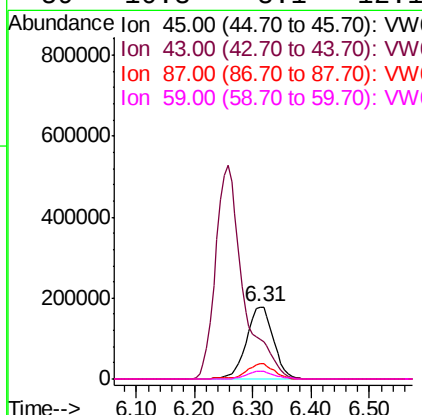
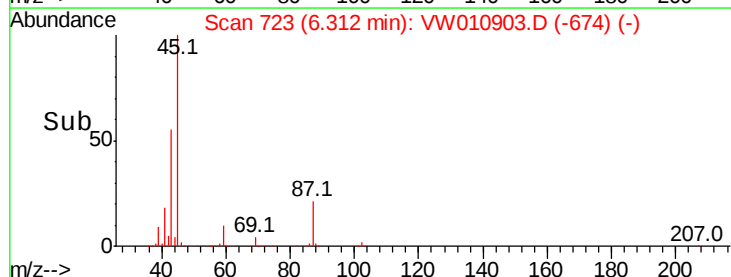
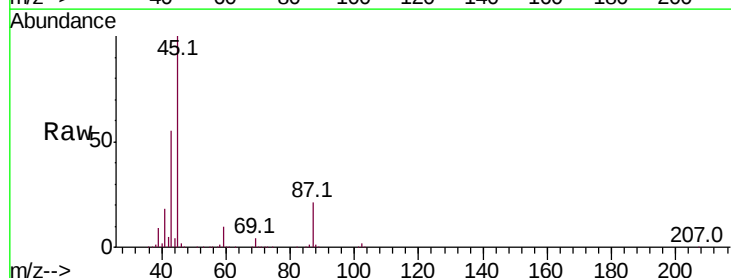
Ion Ratio Lower Upper

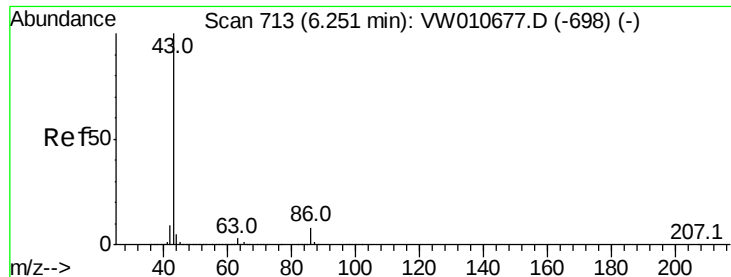
45 100

43 54.4 42.5 63.7

87 21.1 17.4 26.2

59 10.3 8.1 12.1





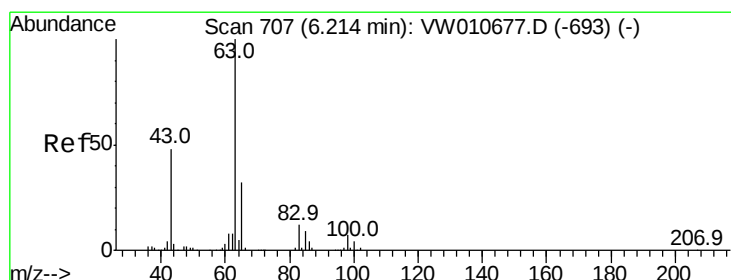
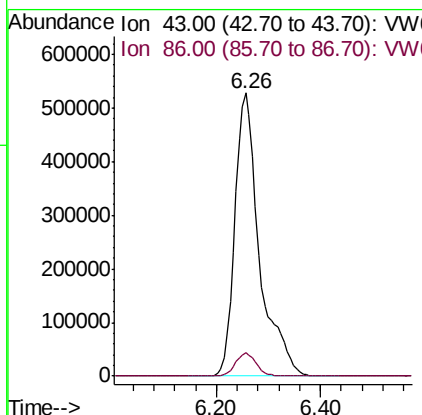
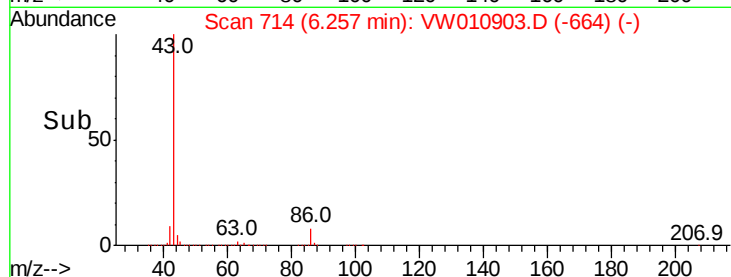
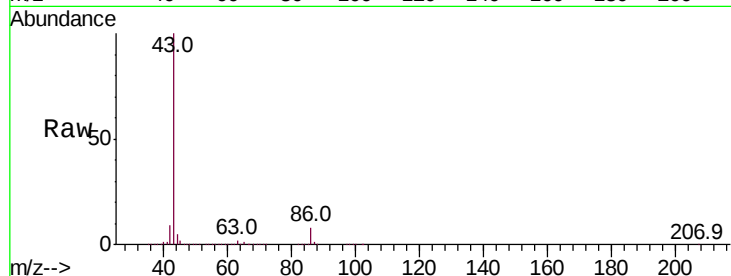
#23
 Vinyl Acetate
 Concen: 329.325 ug/l
 RT: 6.26 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VW010903.D
 Acq: 20 Jun 2019 20:51

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 43 Resp: 1732421
 Ion Ratio Lower Upper
 43 100
 86 8.1 6.6 10.0

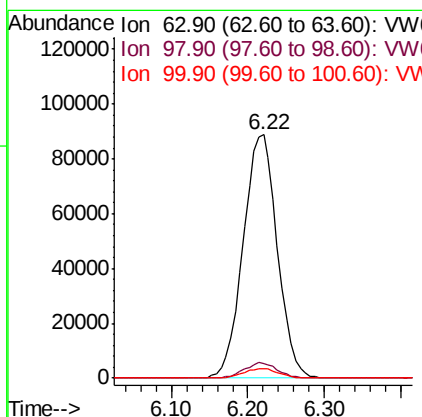
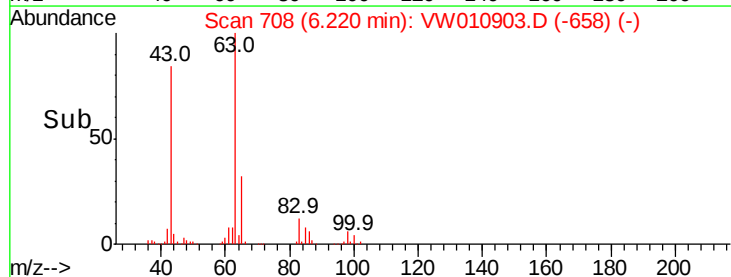
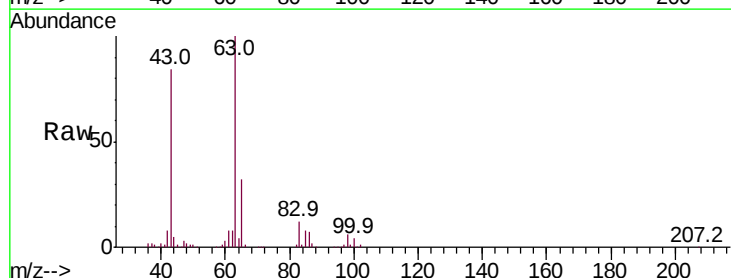
Manual Integrations
 APPROVED

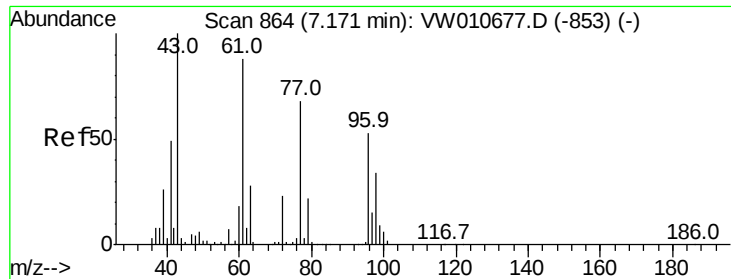
MMDadoda
 6/21/2019 3:20:41 PM



#24
 1,1-Dichloroethane
 Concen: 62.886 ug/l
 RT: 6.22 min Scan# 708
 Delta R.T. 0.01 min
 Lab File: VW010903.D
 Acq: 20 Jun 2019 20:51

Tgt Ion: 63 Resp: 274708
 Ion Ratio Lower Upper
 63 100
 98 6.1 3.4 10.2
 100 3.9 2.1 6.3





#25

2-Butanone

Concen: 355.978 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW010903.D

Acq: 20 Jun 2019 20:51

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 318318

Ion Ratio Lower Upper

43 100

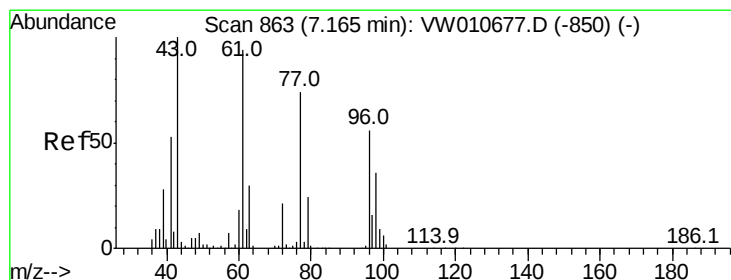
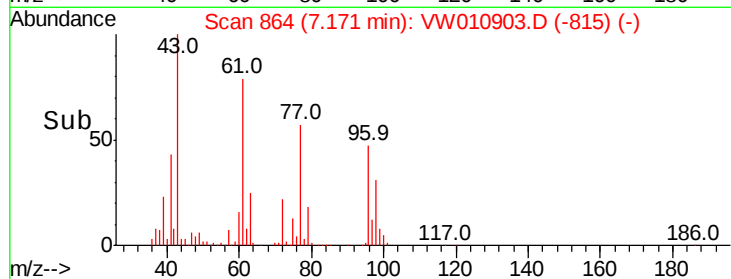
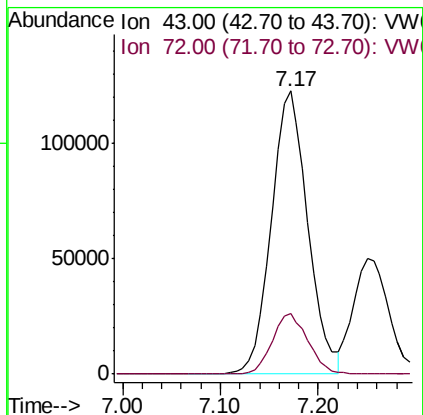
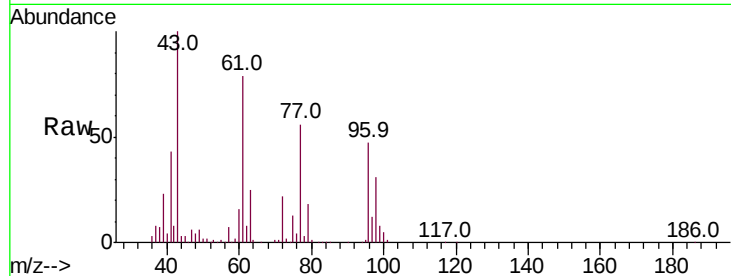
72 21.7 18.1 27.1

Manual Integrations

APPROVED

MMDadoda

6/21/2019 3:20:41 PM



#26

2,2-Dichloropropane

Concen: 58.776 ug/l

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW010903.D

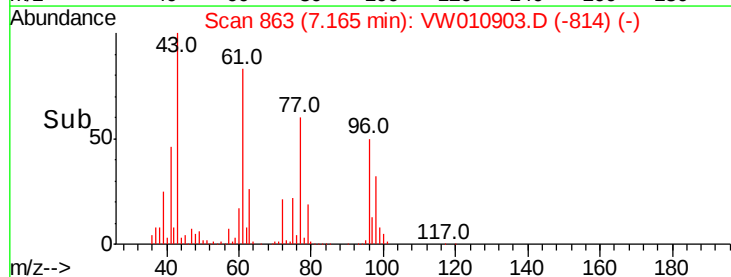
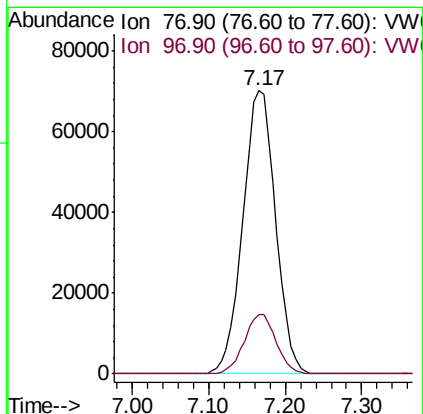
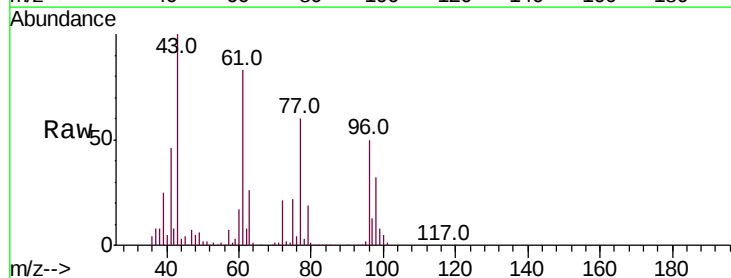
Acq: 20 Jun 2019 20:51

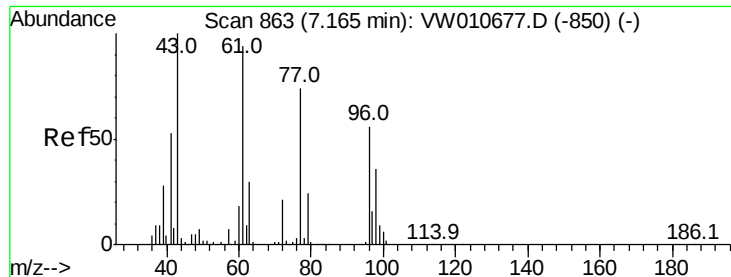
Tgt Ion: 77 Resp: 208928

Ion Ratio Lower Upper

77 100

97 20.5 10.5 31.6





#27

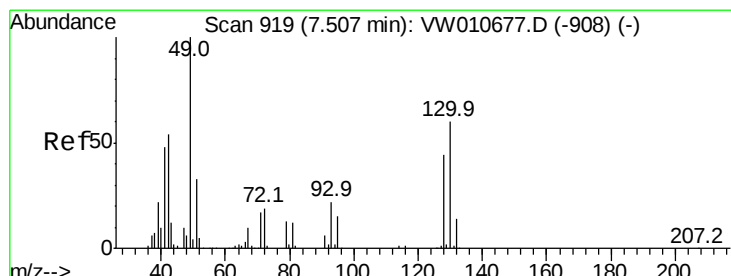
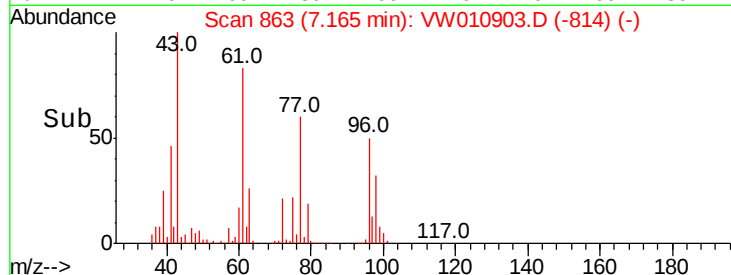
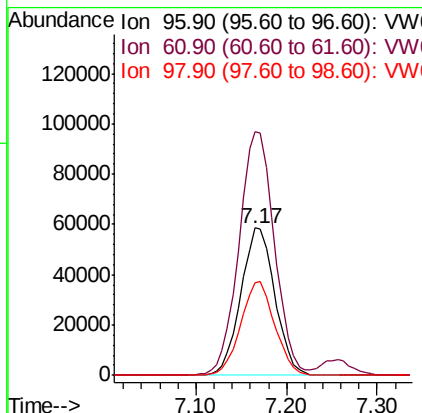
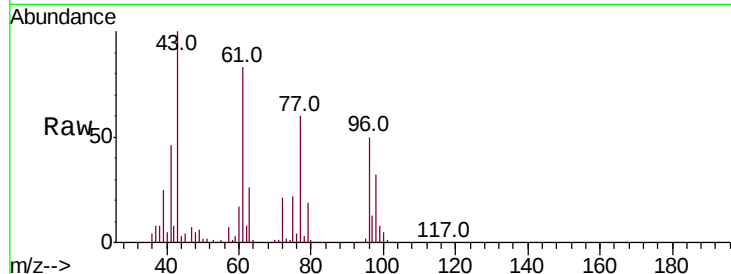
cis-1,2-Dichloroethene
Concen: 61.874 ug/l
RT: 7.17 min Scan# 863
Delta R.T. 0.00 min
Lab File: VW010903.D
Acq: 20 Jun 2019 20:51

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
96	100		
61	171.7	0.0	336.4
98	63.6	0.0	128.0

Manual Integrations
APPROVED

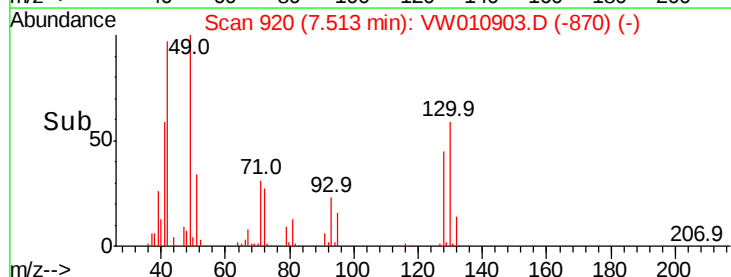
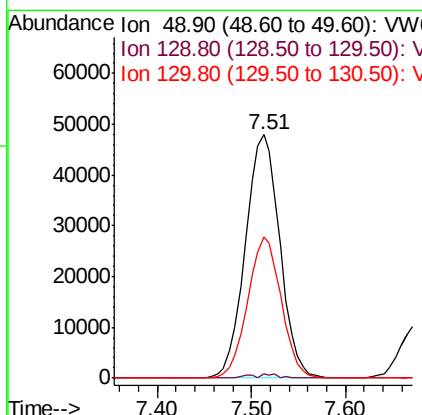
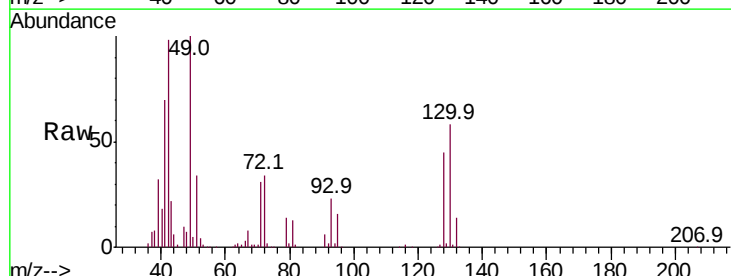
MMDadoda
6/21/2019 3:20:41 PM

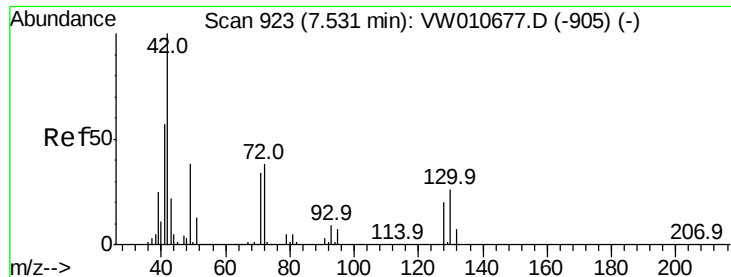


#28

Bromochloromethane
Concen: 63.191 ug/l
RT: 7.51 min Scan# 920
Delta R.T. 0.01 min
Lab File: VW010903.D
Acq: 20 Jun 2019 20:51

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.9	0.0	3.2
130	56.4	48.3	72.5





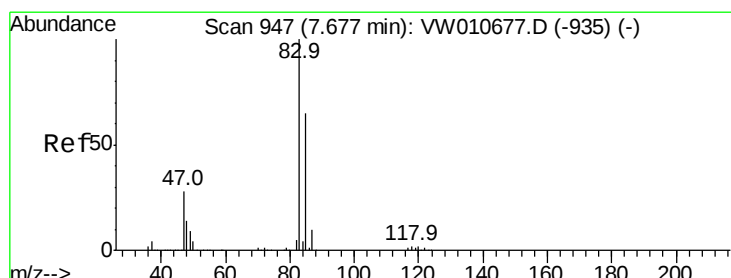
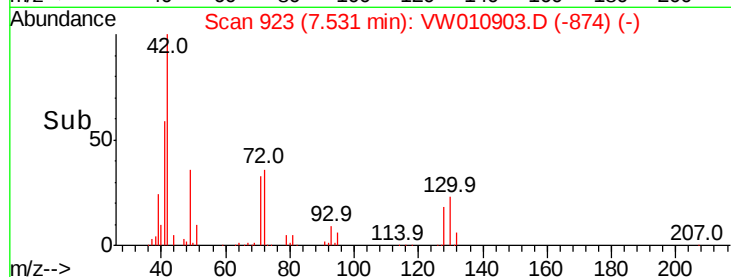
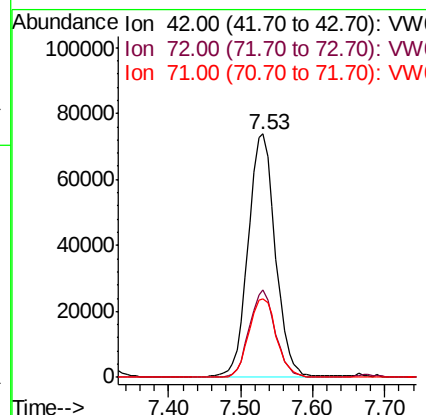
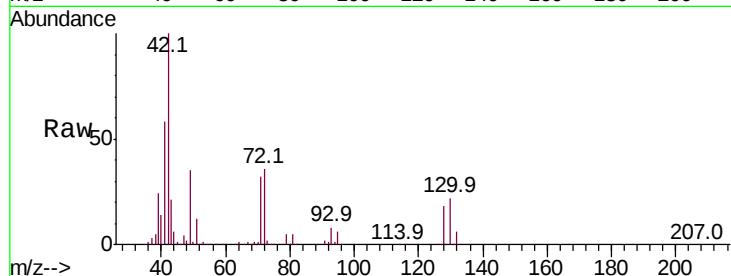
#29
Tetrahydrofuran
Concen: 344.996 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.00 min
Lab File: VW010903.D
Acq: 20 Jun 2019 20:51

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	34.2	28.7	43.1
71	32.8	26.6	39.8

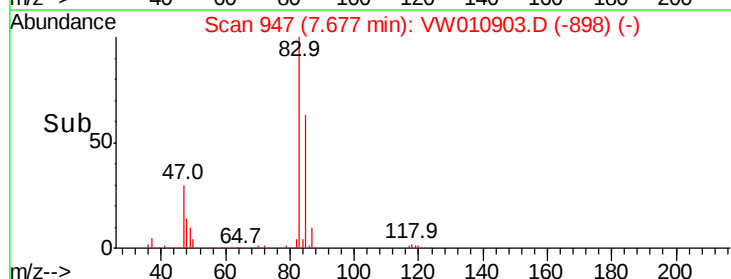
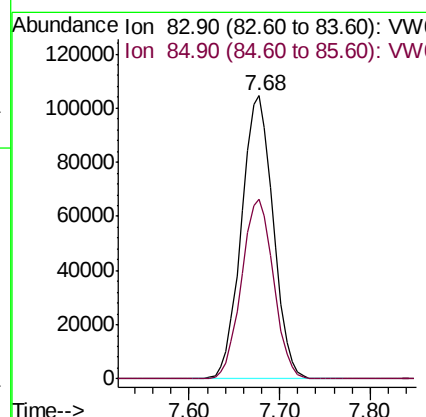
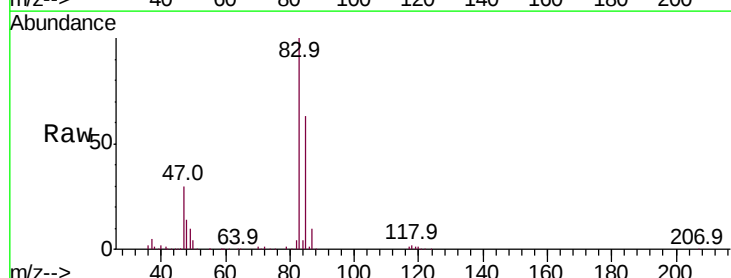
Manual Integrations
APPROVED

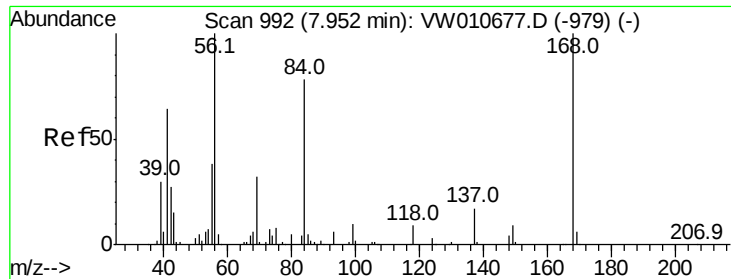
MMDadoda
6/21/2019 3:20:41 PM



#30
Chloroform
Concen: 63.491 ug/l
RT: 7.68 min Scan# 947
Delta R.T. 0.00 min
Lab File: VW010903.D
Acq: 20 Jun 2019 20:51

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.3	51.8	77.8





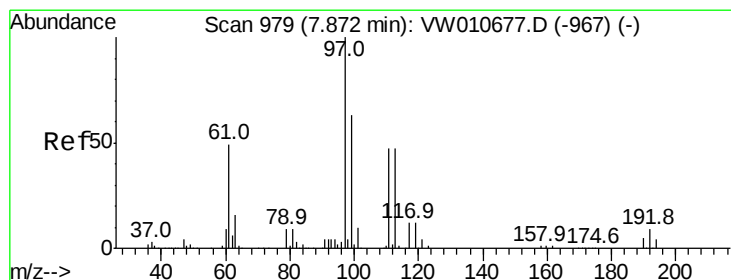
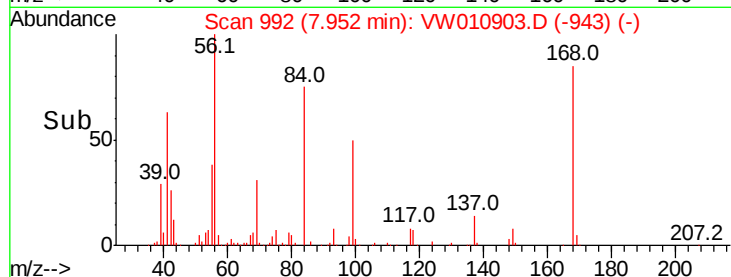
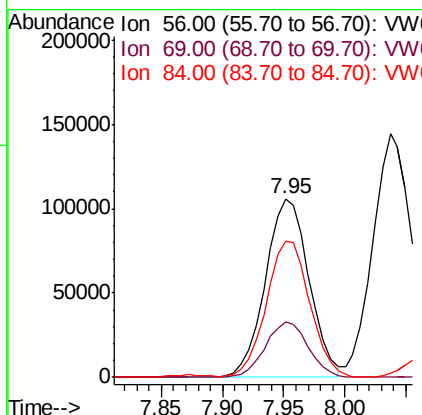
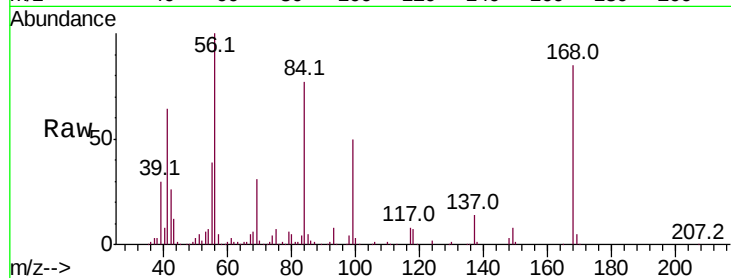
#31
Cyclohexane
Concen: 54.137 ug/l
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW010903.D
Acq: 20 Jun 2019 20:51

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
56	100		
69	30.9	25.2	37.8
84	75.3	62.2	93.2

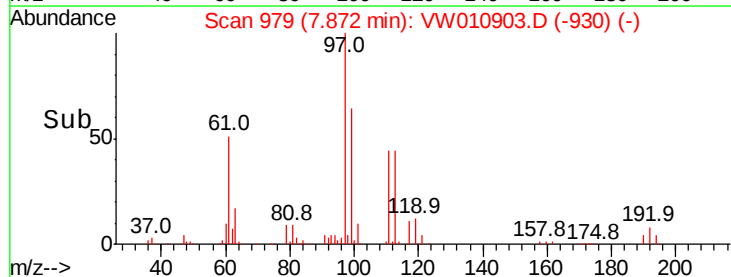
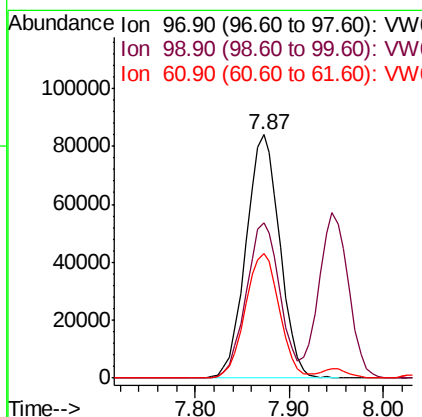
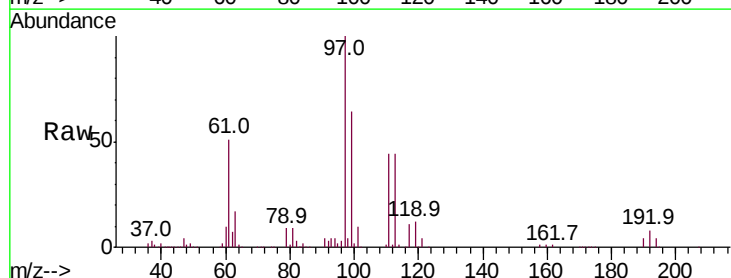
Manual Integrations
APPROVED

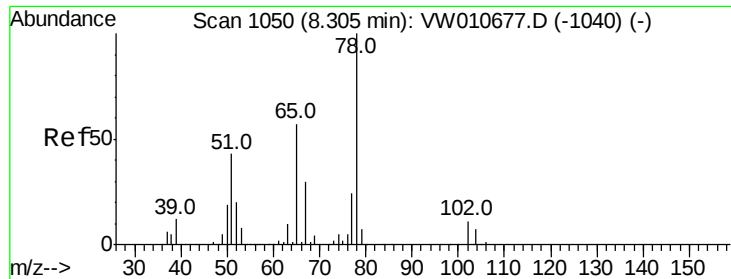
MMDadoda
6/21/2019 3:20:41 PM



#32
1,1,1-Trichloroethane
Concen: 60.595 ug/l
RT: 7.87 min Scan# 979
Delta R.T. 0.00 min
Lab File: VW010903.D
Acq: 20 Jun 2019 20:51

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.5	51.3	76.9
61	51.8	40.4	60.6





#33

1,2-Dichloroethane-d4

Concen: 62.059 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW010903.D

Acq: 20 Jun 2019 20:51

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

Tot Ion: 65 Resp: 149357

Ion Ratio Lower Upper

65 100

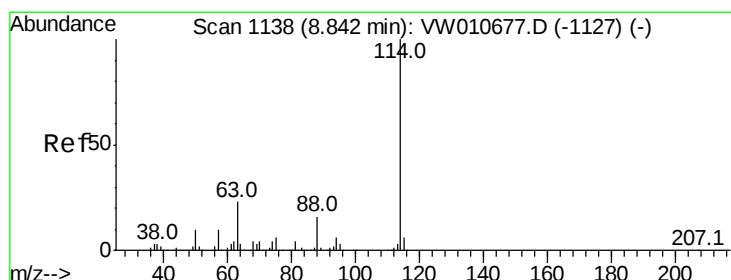
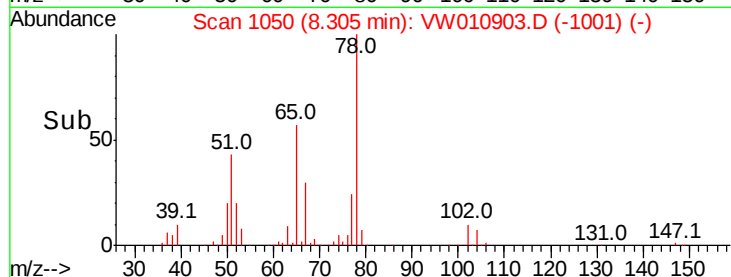
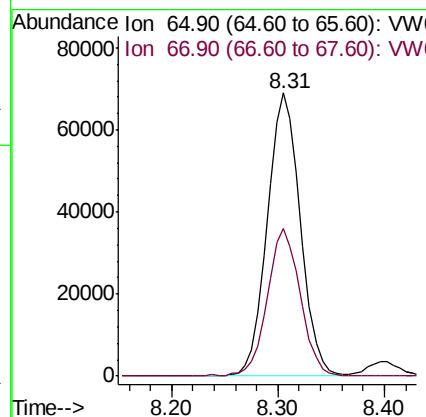
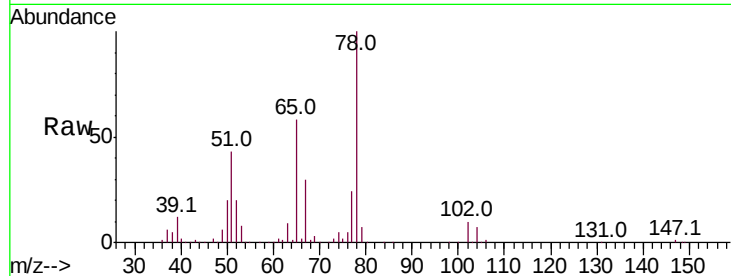
67 52.0 0.0 102.6

Manual Integrations

APPROVED

MMDadoda

6/21/2019 3:20:41 PM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW010903.D

Acq: 20 Jun 2019 20:51

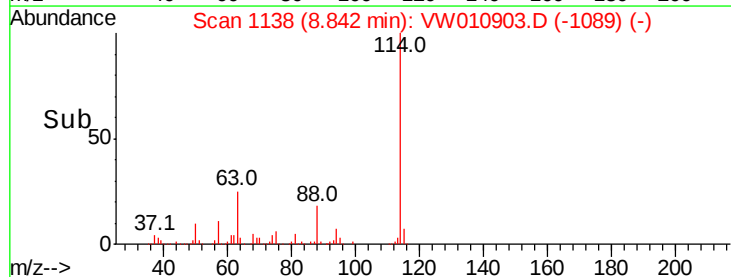
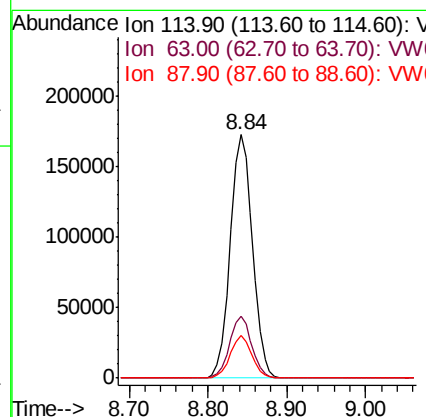
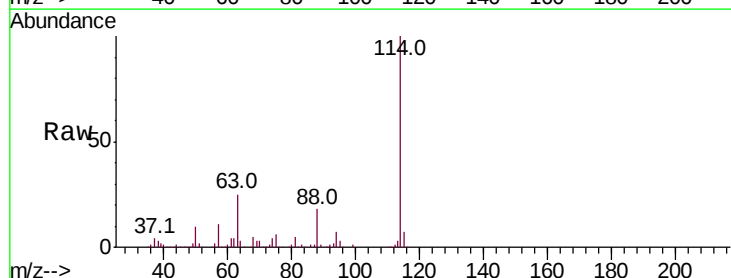
Tgt Ion: 114 Resp: 339071

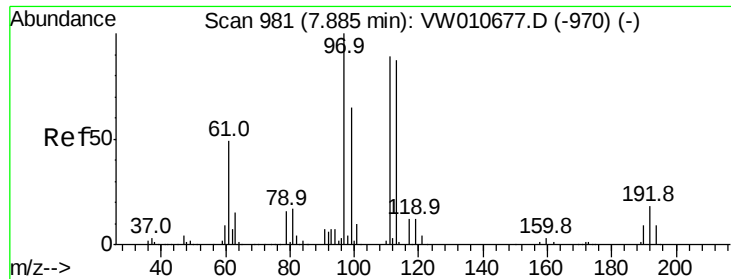
Ion Ratio Lower Upper

114 100

63 25.2 0.0 46.4

88 17.7 0.0 32.2





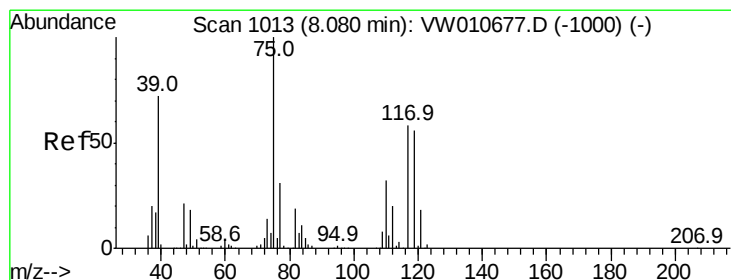
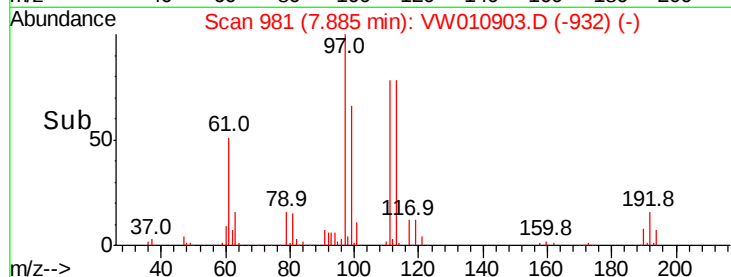
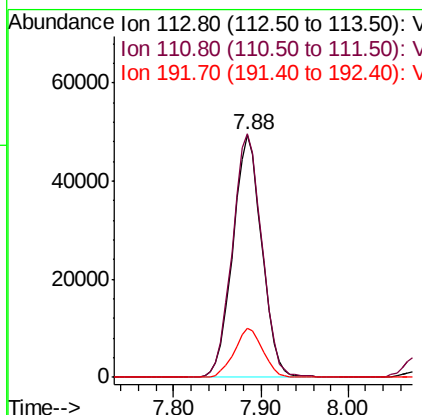
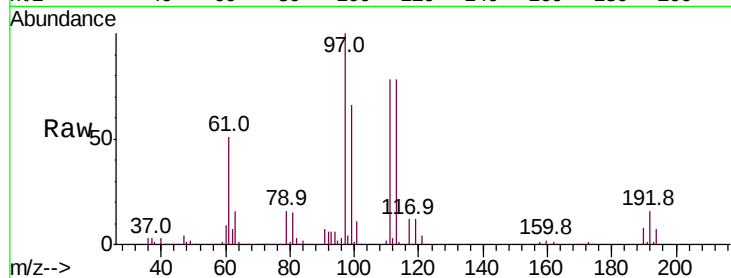
#35
 Dibromofluoromethane
 Concen: 61.821 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW010903.D
 Acq: 20 Jun 2019 20:51

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	102.8	82.6	123.8	
192	19.9	16.4	24.6	

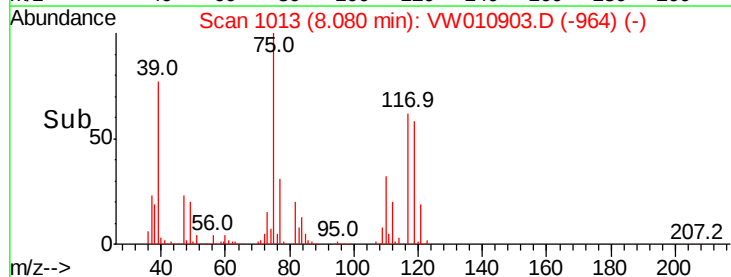
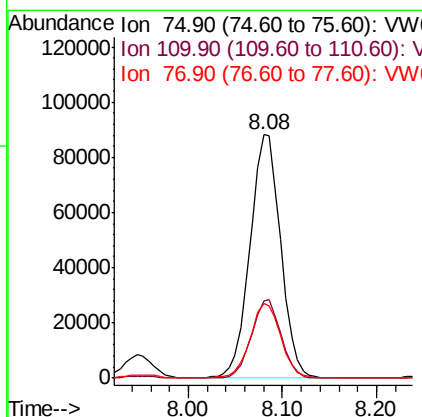
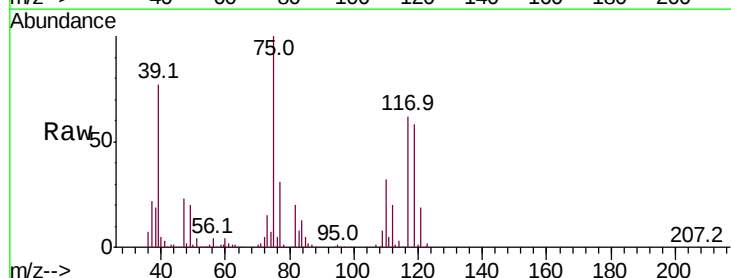
Manual Integrations
 APPROVED

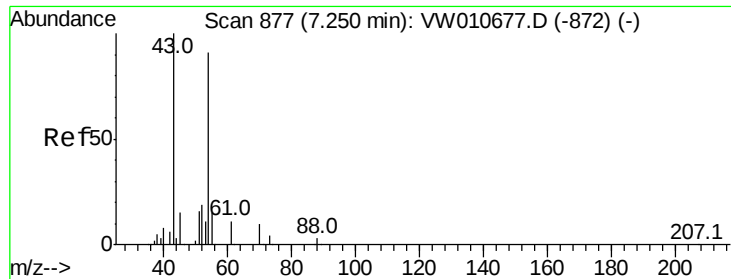
MMDadoda
 6/21/2019 3:20:41 PM



#36
 1,1-Dichloropropene
 Concen: 57.972 ug/l
 RT: 8.08 min Scan# 1013
 Delta R.T. 0.00 min
 Lab File: VW010903.D
 Acq: 20 Jun 2019 20:51

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	31.3	15.8	47.3	
77	31.0	24.7	37.1	





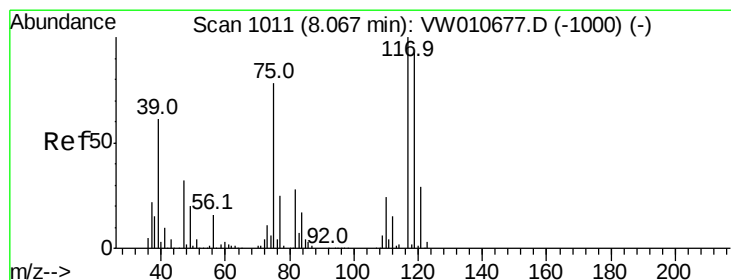
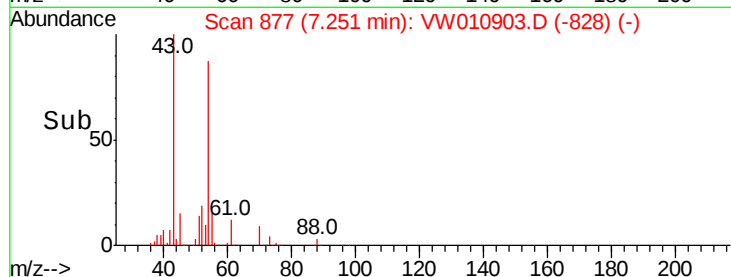
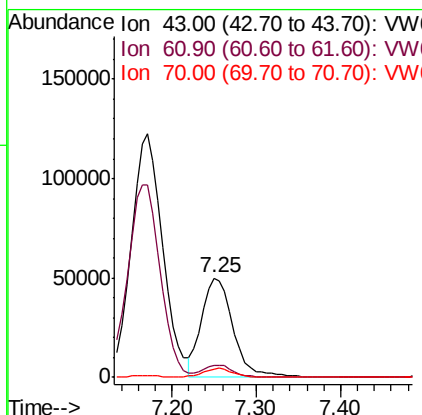
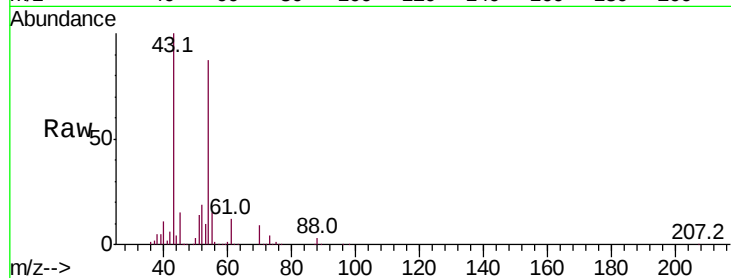
#37
Ethyl Acetate
Concen: 66.963 ug/l
RT: 7.25 min Scan# 877
Delta R.T. 0.00 min
Lab File: VW010903.D
Acq: 20 Jun 2019 20:51

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	11.9	9.7	14.5
70	8.8	7.2	10.8

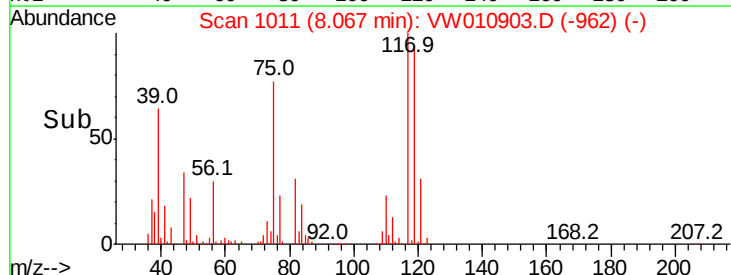
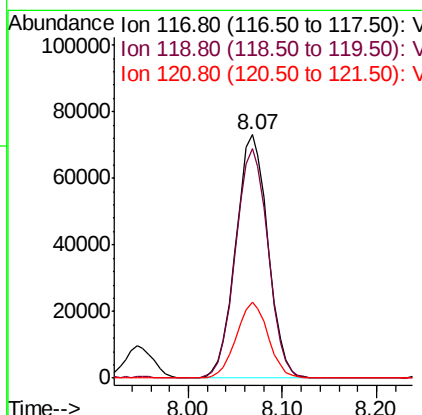
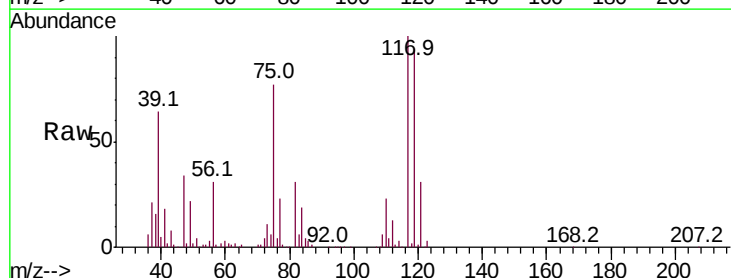
Manual Integrations
APPROVED

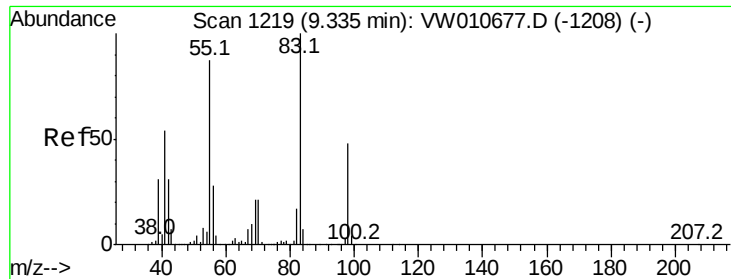
MMDadoda
6/21/2019 3:20:41 PM



#38
Carbon Tetrachloride
Concen: 58.228 ug/l
RT: 8.07 min Scan# 1011
Delta R.T. 0.00 min
Lab File: VW010903.D
Acq: 20 Jun 2019 20:51

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.3	74.2	111.4
121	31.1	22.9	34.3





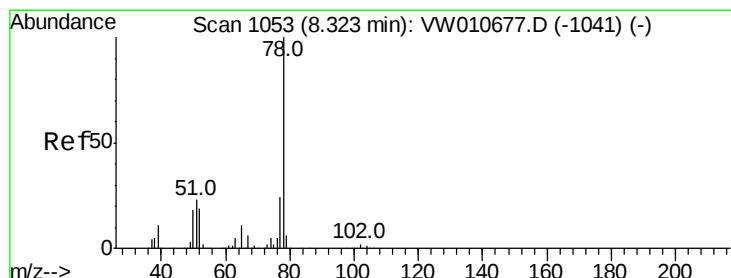
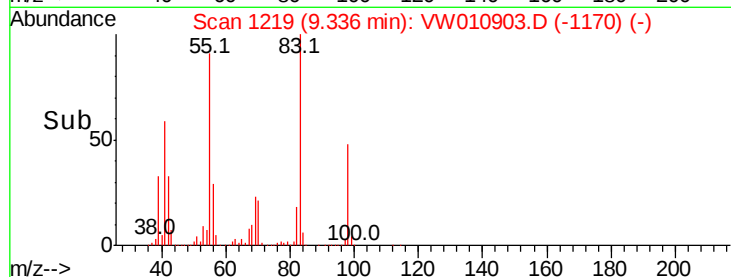
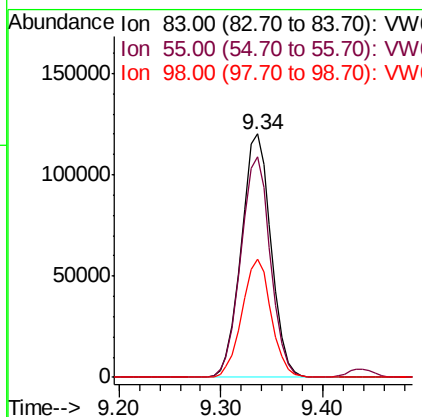
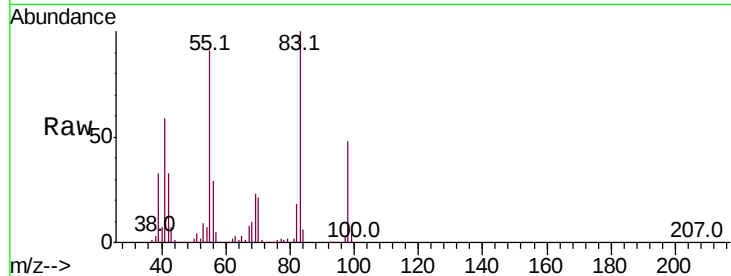
#39
Methvlcvclohexane
Concen: 55.024 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW010903.D
Acq: 20 Jun 2019 20:51

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	83	Resp	242773
Ion Ratio	100	Lower	Upper
83	100		
55	90.8	70.0	105.0
98	48.3	38.1	57.1

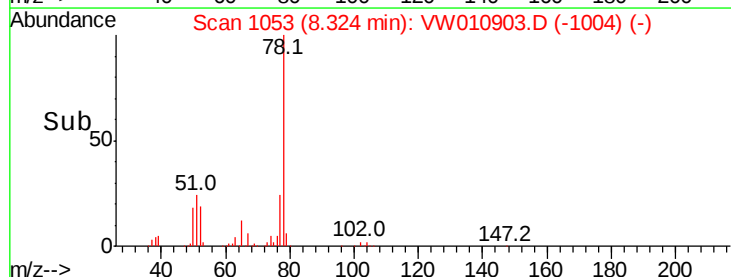
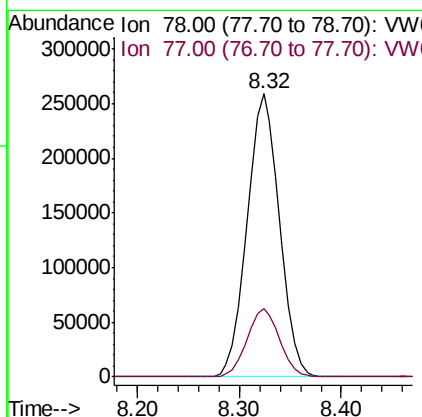
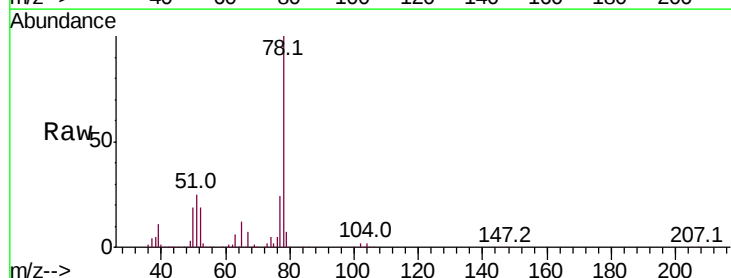
Manual Integrations
APPROVED

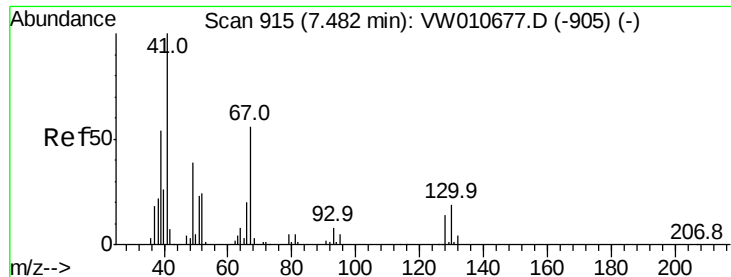
MMDadoda
6/21/2019 3:20:41 PM



#40
Benzene
Concen: 60.280 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. 0.00 min
Lab File: VW010903.D
Acq: 20 Jun 2019 20:51

Tgt Ion	78	Resp	570759
Ion Ratio	100	Lower	Upper
78	100		
77	24.3	19.1	28.7





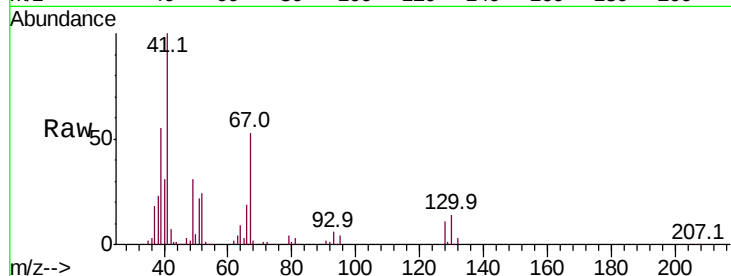
#41
Methacrylonitrile
Concen: 66.100 ug/l
RT: 7.48 min Scan# 915
Delta R.T. 0.00 min
Lab File: VW010903.D
Acq: 20 Jun 2019 20:51

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

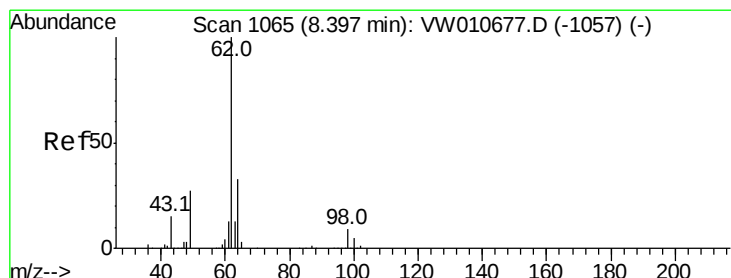
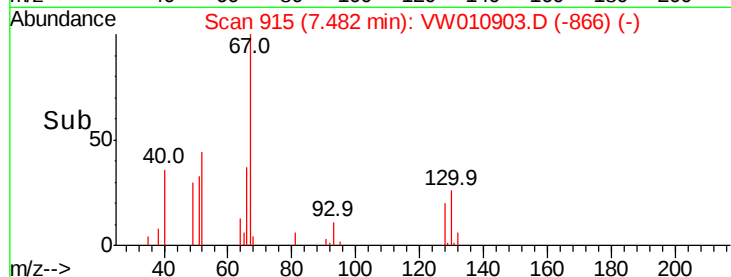
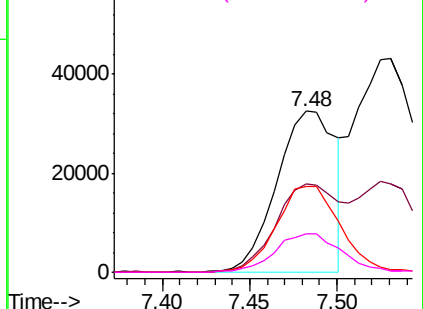
Tot Ion	41	Resp	75566
Ion	Ratio	Lower	Upper
41	100		
39	62.2	47.3	70.9
67	58.8	47.2	70.8
52	27.5	21.3	31.9

Manual Integrations
APPROVED

MMDadoda
6/21/2019 3:20:41 PM

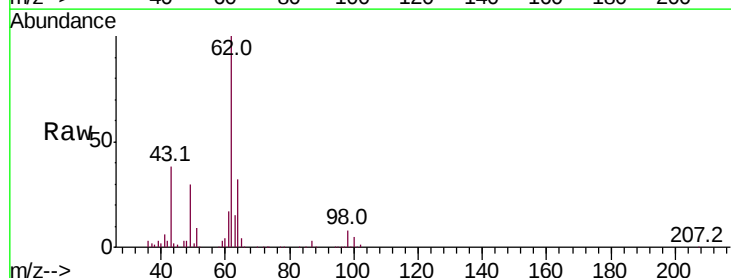


Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 39.00 (38.70 to 39.70): VW
Ion 67.00 (66.70 to 67.70): VW
Ion 52.00 (51.70 to 52.70): VW

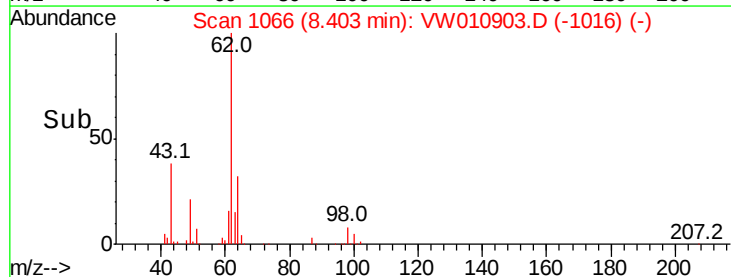
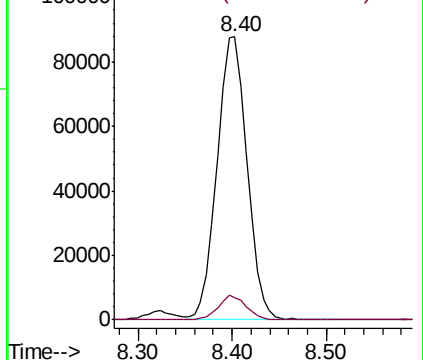


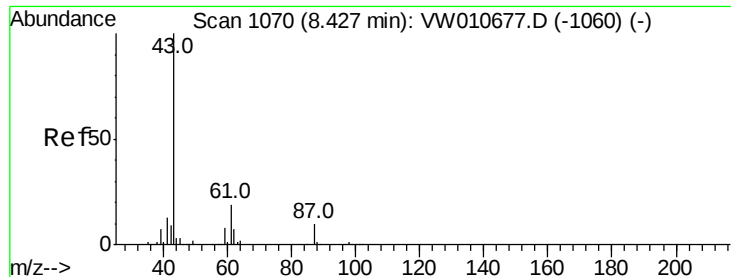
#42
1,2-Dichloroethane
Concen: 64.569 ug/l
RT: 8.40 min Scan# 1066
Delta R.T. 0.01 min
Lab File: VW010903.D
Acq: 20 Jun 2019 20:51

Tgt Ion	62	Resp	194036
Ion	Ratio	Lower	Upper
62	100		
98	8.1	0.0	17.2



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





#43

Isopropyl Acetate

Concen: 67.790 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. 0.00 min

Lab File: VW010903.D

Acq: 20 Jun 2019 20:51

Instrument :

MSVOA_W

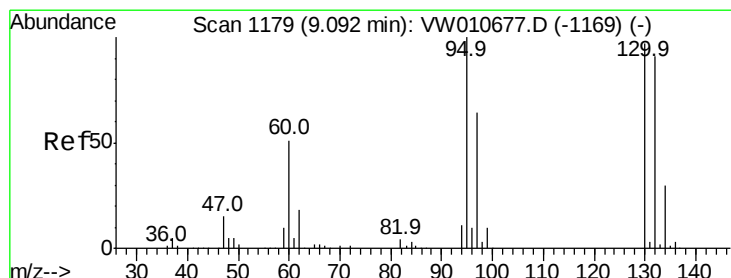
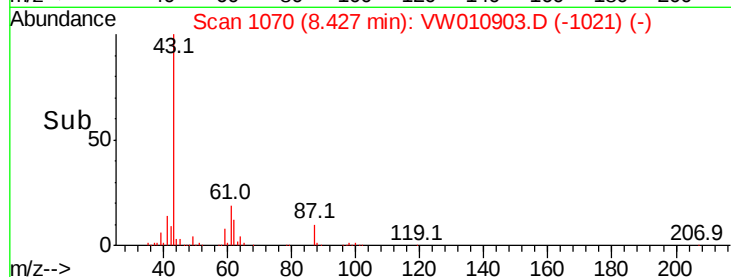
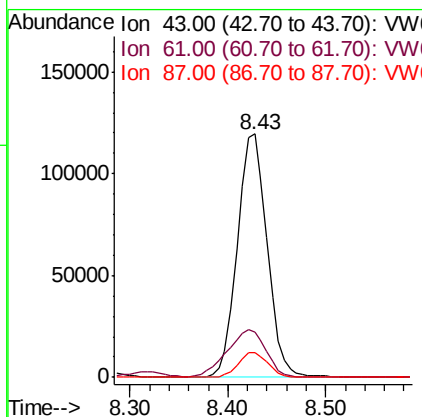
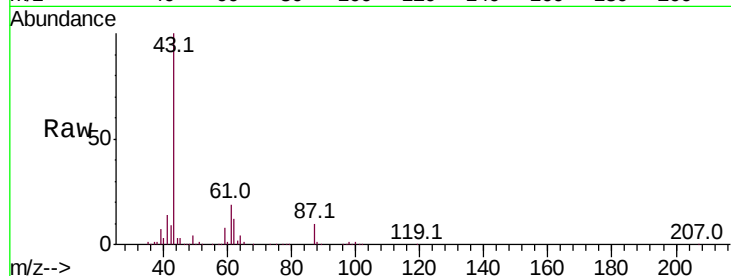
ClientSampleId :

VSTDCCC050EC

Tot Ion:	43	Resp:	251889
Ion	Ratio	Lower	Upper
43	100		
61	25.7	21.2	31.8
87	10.2	8.3	12.5

Manual Integrations
APPROVED

MMDadoda
6/21/2019 3:20:41 PM



#44

Trichloroethene

Concen: 58.377 ug/l

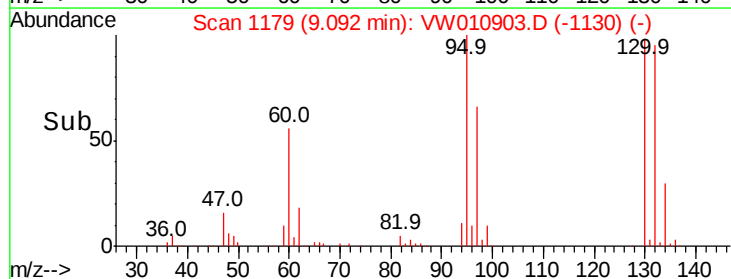
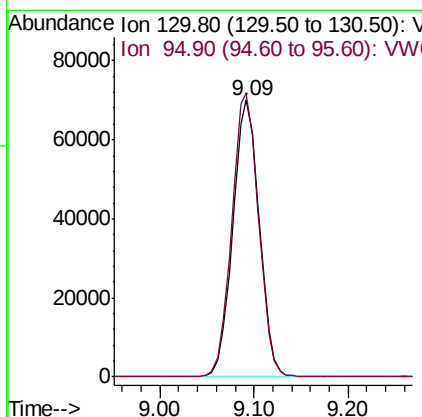
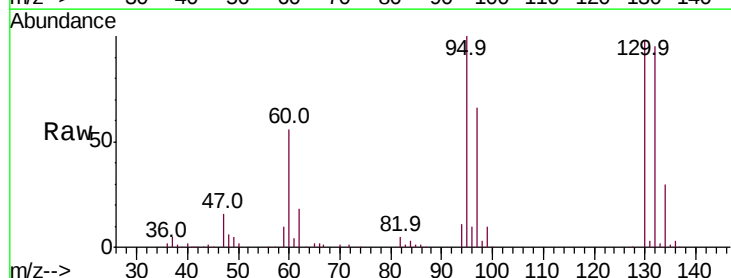
RT: 9.09 min Scan# 1179

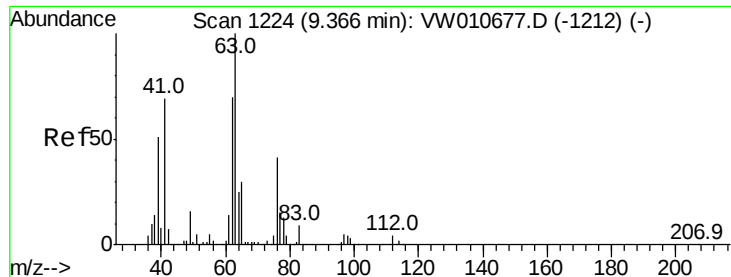
Delta R.T. 0.00 min

Lab File: VW010903.D

Acq: 20 Jun 2019 20:51

Tgt Ion:	130	Resp:	136349
Ion	Ratio	Lower	Upper
130	100		
95	102.2	0.0	207.0





#45

1,2-Dichloropropane

Concen: 63.410 ug/l

RT: 9.37 min Scan# 1225

Delta R.T. 0.01 min

Lab File: VW010903.D

Acq: 20 Jun 2019 20:51

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

Tot Ion: 63 Resp: 158934

Ion Ratio Lower Upper

63 100

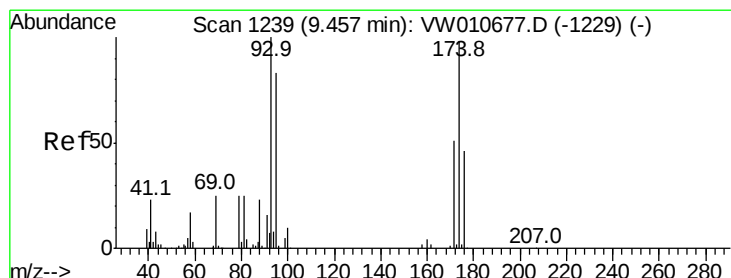
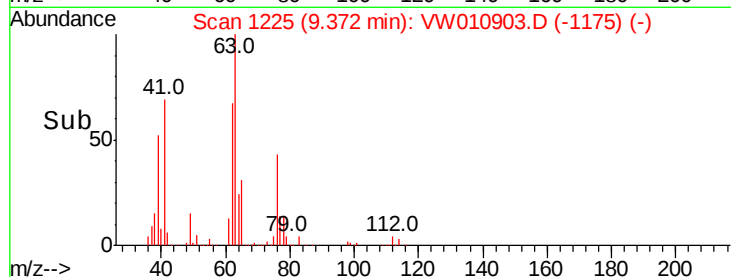
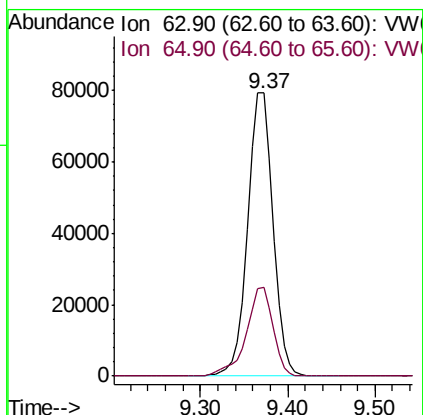
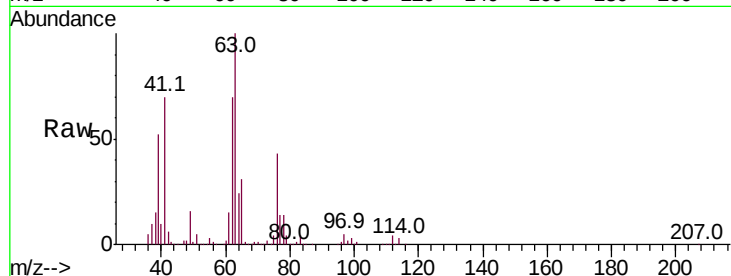
65 31.4 23.8 35.6

Manual Integrations

APPROVED

MMDadoda

6/21/2019 3:20:41 PM



#46

Dibromomethane

Concen: 63.827 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. 0.00 min

Lab File: VW010903.D

Acq: 20 Jun 2019 20:51

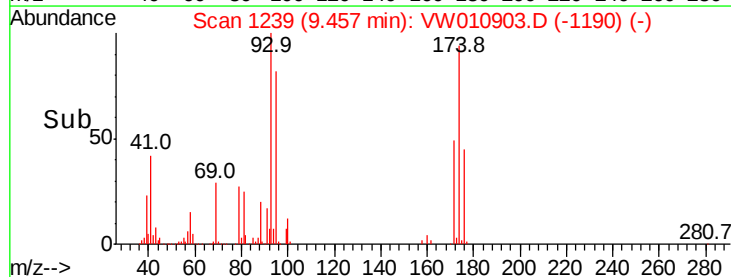
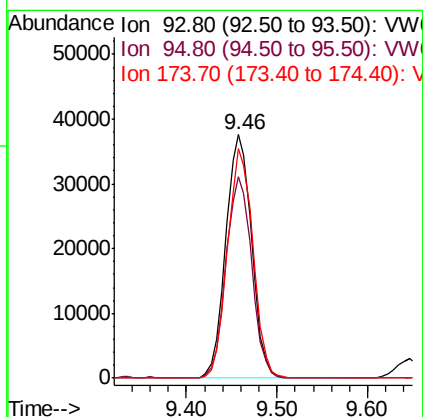
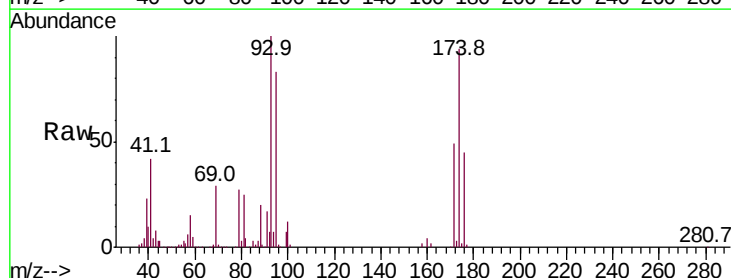
Tgt Ion: 93 Resp: 74306

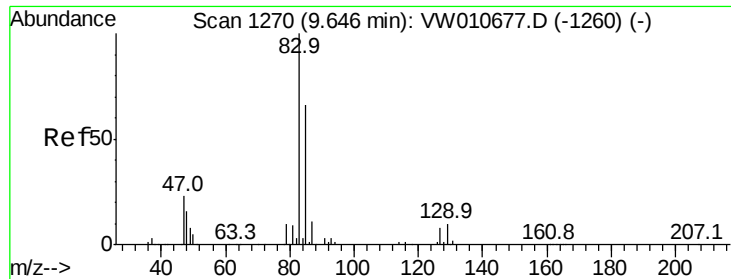
Ion Ratio Lower Upper

93 100

95 82.3 65.8 98.8

174 93.0 77.4 116.0





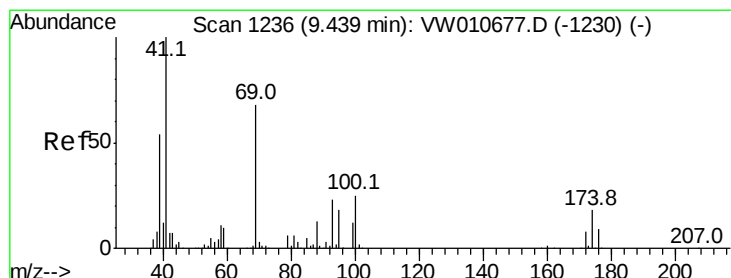
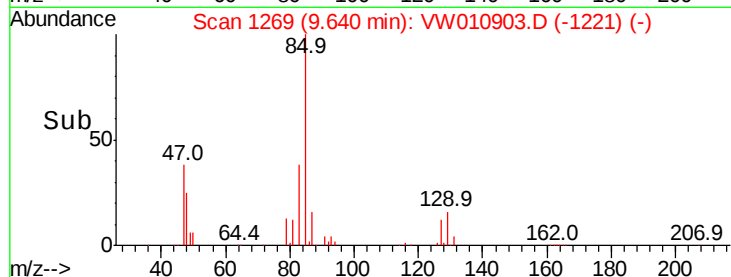
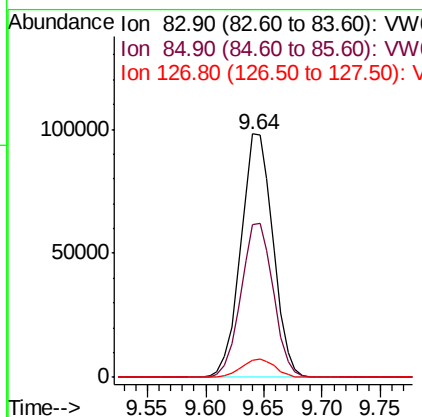
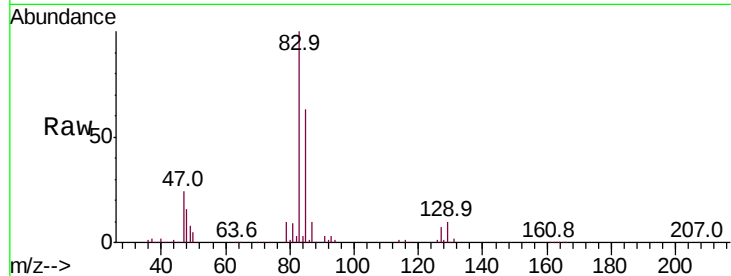
#47
Bromodichloromethane
Concen: 62.860 ug/l
RT: 9.64 min Scan# 1269
Delta R.T. -0.01 min
Lab File: VW010903.D
Acq: 20 Jun 2019 20:51

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
83	100	189694		
85	62.6	53.0	79.4	
127	7.2	6.4	9.6	

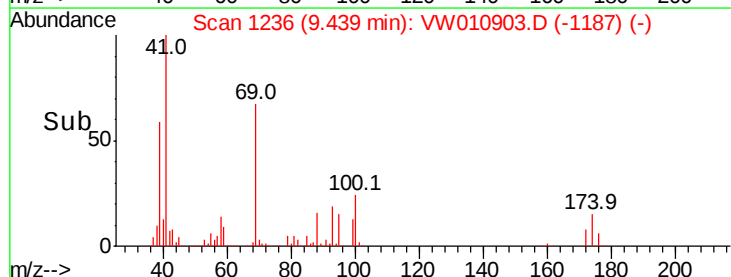
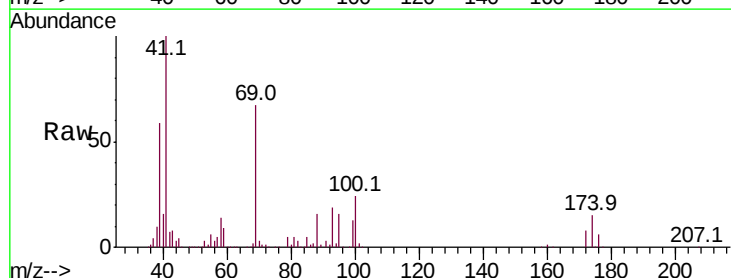
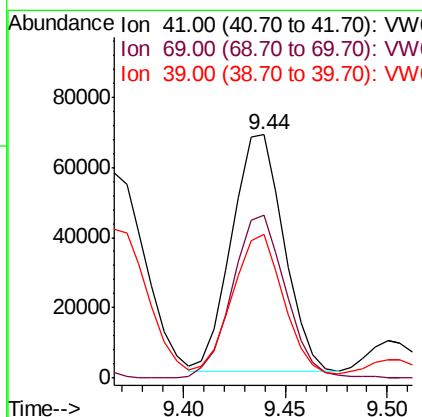
Manual Integrations
APPROVED

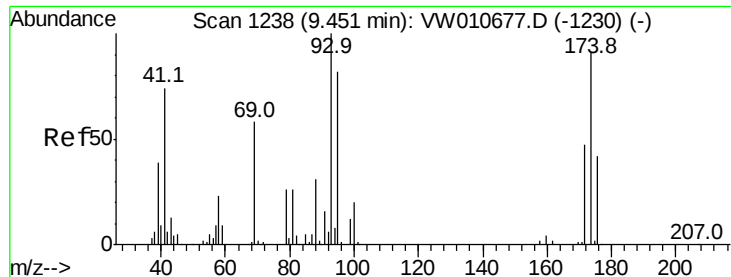
MMDadoda
6/21/2019 3:20:41 PM



#48
Methyl methacrylate
Concen: 66.980 ug/l
RT: 9.44 min Scan# 1236
Delta R.T. 0.00 min
Lab File: VW010903.D
Acq: 20 Jun 2019 20:51

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	119995		
69	70.6	56.6	85.0	
39	61.2	44.4	66.6	





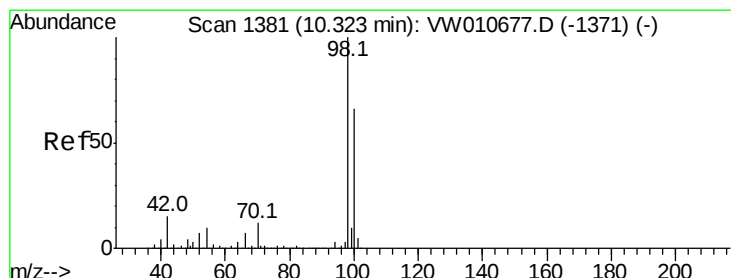
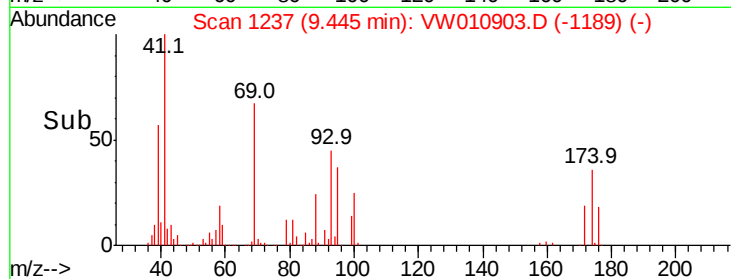
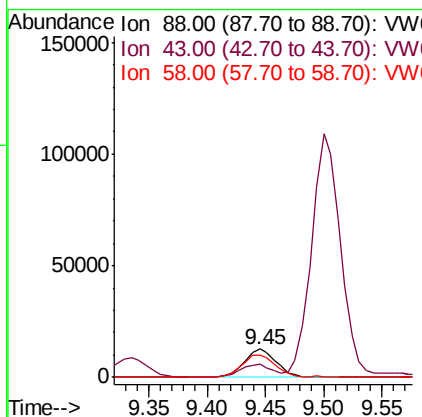
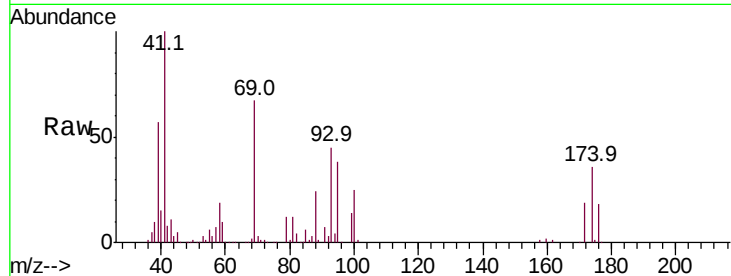
#49
1,4-Dioxane
Concen: 1347.376 ug/l
RT: 9.45 min Scan# 1237
Delta R.T. -0.01 min
Lab File: VW010903.D
Acq: 20 Jun 2019 20:51

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
88	100		
43	43.4	34.2	51.4
58	83.2	69.0	103.4

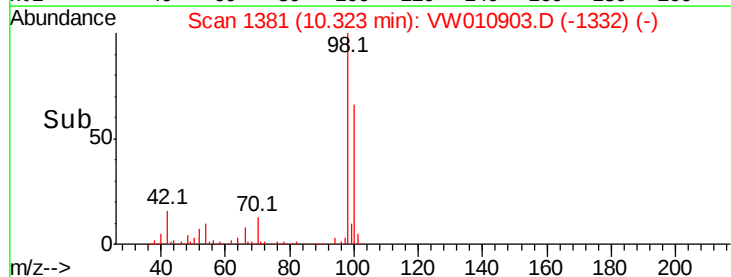
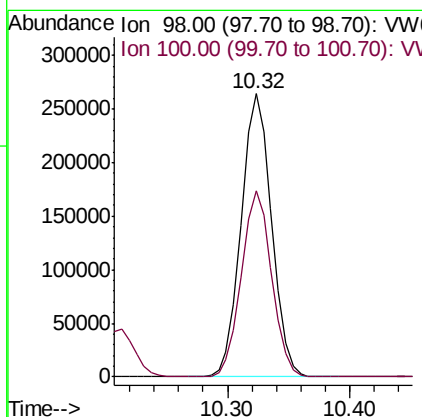
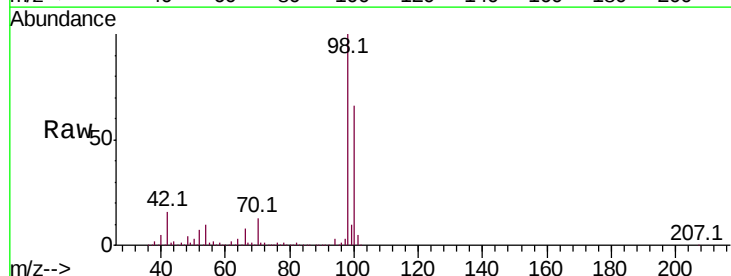
Manual Integrations
APPROVED

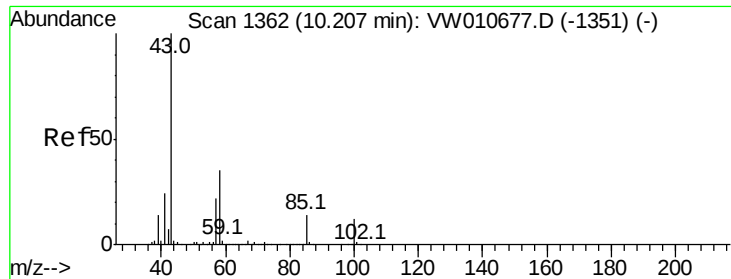
MMDadoda
6/21/2019 3:20:41 PM



#50
Toluene-d8
Concen: 56.468 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW010903.D
Acq: 20 Jun 2019 20:51

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.3	53.0	79.6





#51

4-Methyl-2-Pentanone

Concen: 352.294 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW010903.D

Acq: 20 Jun 2019 20:51

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 668740

Ion Ratio Lower Upper

43 100

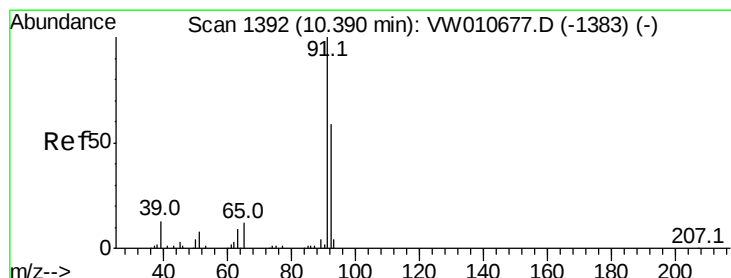
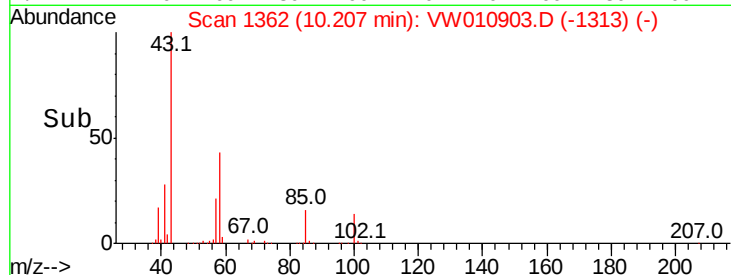
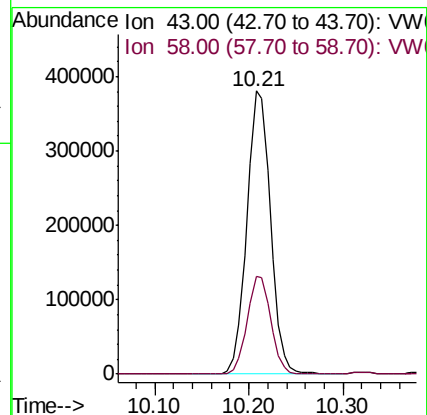
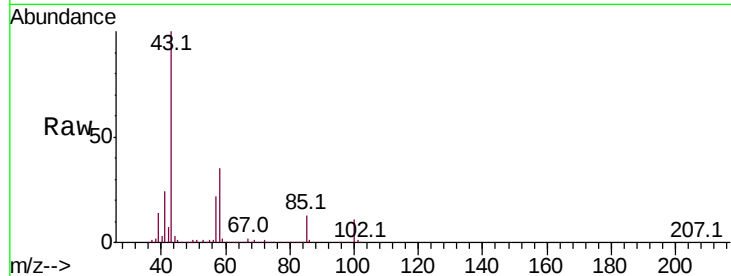
58 34.6 28.4 42.6

Manual Integrations

APPROVED

MMDadoda

6/21/2019 3:20:41 PM



#52

Toluene

Concen: 60.646 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW010903.D

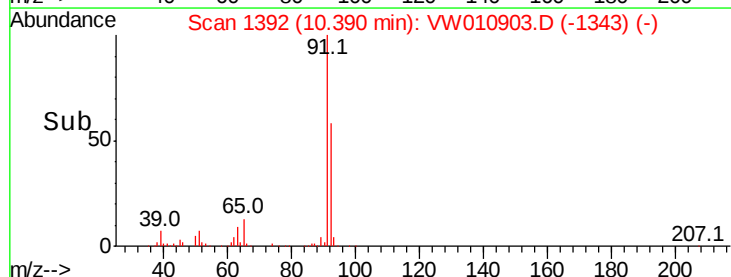
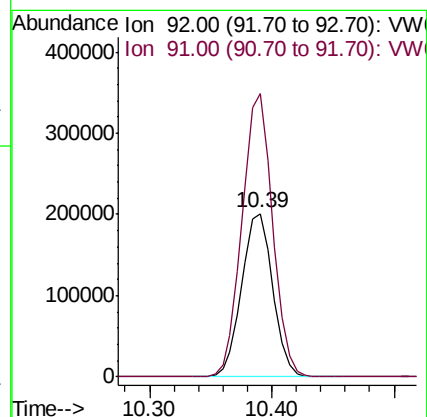
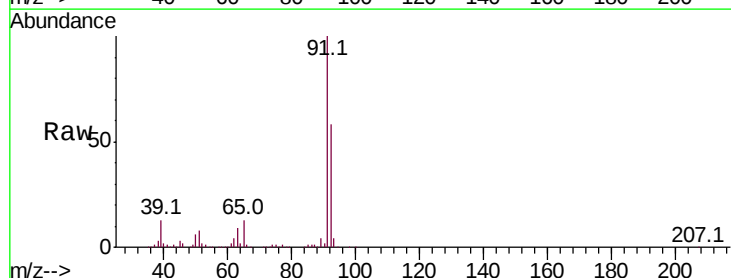
Acq: 20 Jun 2019 20:51

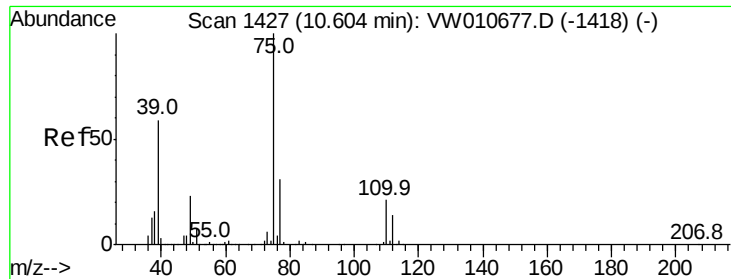
Tgt Ion: 92 Resp: 353309

Ion Ratio Lower Upper

92 100

91 171.3 134.9 202.3





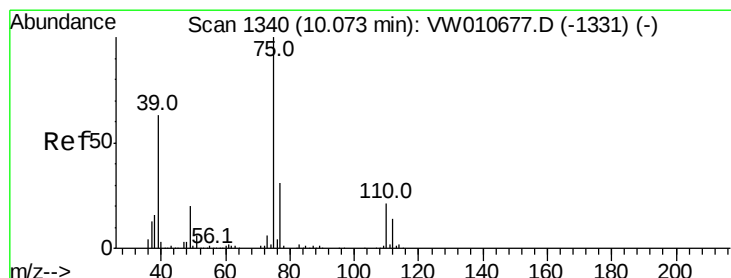
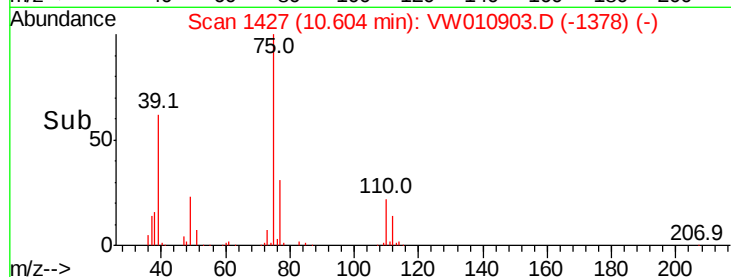
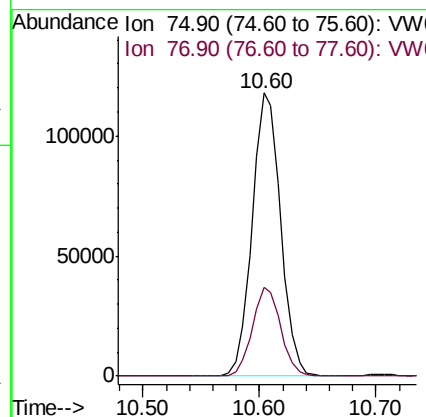
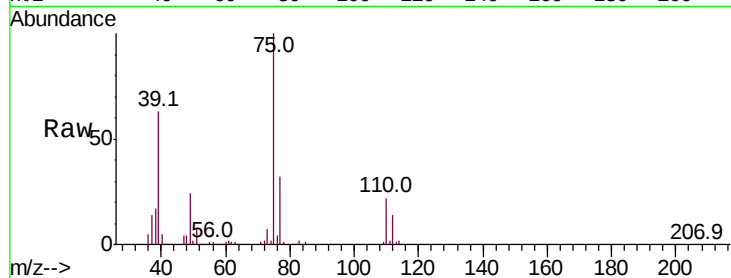
#53
 t-1,3-Dichloropropene
 Concen: 62.706 ug/l
 RT: 10.60 min Scan# 1427
 Delta R.T. 0.00 min
 Lab File: VW010903.D
 Acq: 20 Jun 2019 20:51

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.5	24.6	36.8

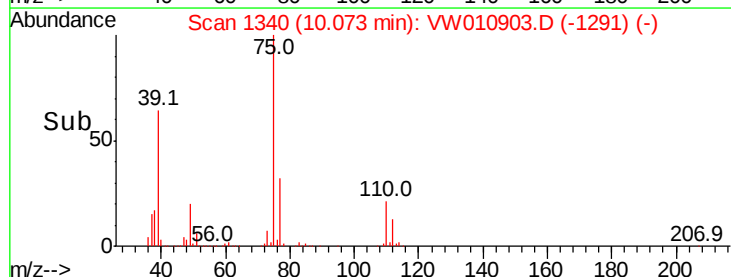
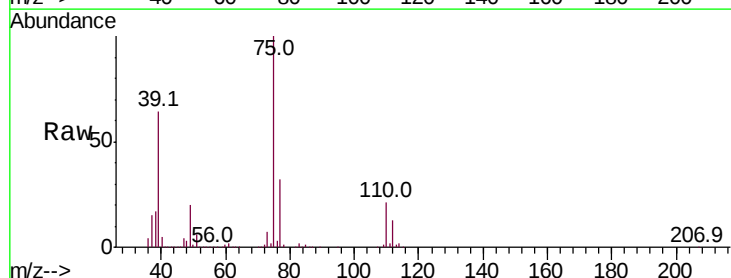
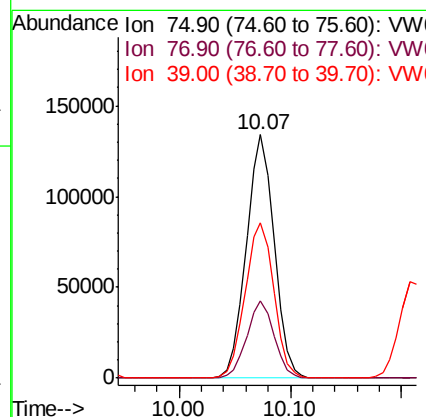
Manual Integrations
 APPROVED

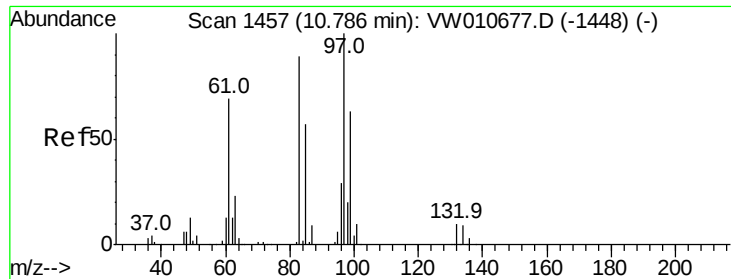
MMDadoda
 6/21/2019 3:20:41 PM



#54
 cis-1,3-Dichloropropene
 Concen: 61.952 ug/l
 RT: 10.07 min Scan# 1340
 Delta R.T. 0.00 min
 Lab File: VW010903.D
 Acq: 20 Jun 2019 20:51

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.2	37.8
39	63.7	50.1	75.1





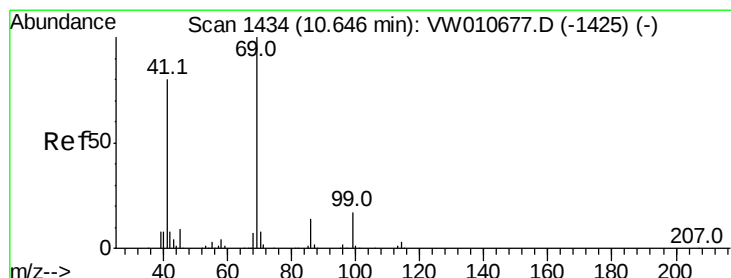
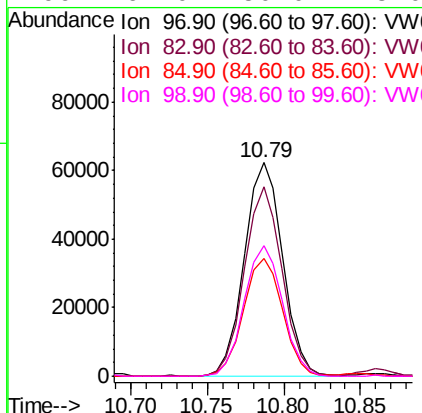
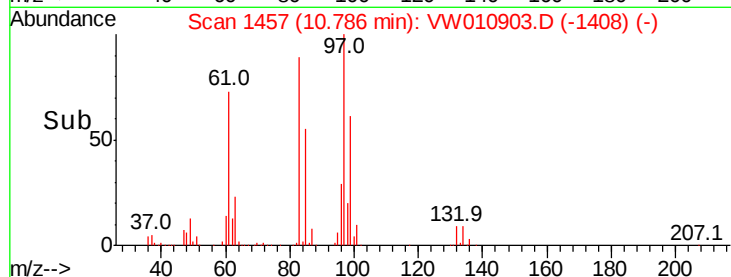
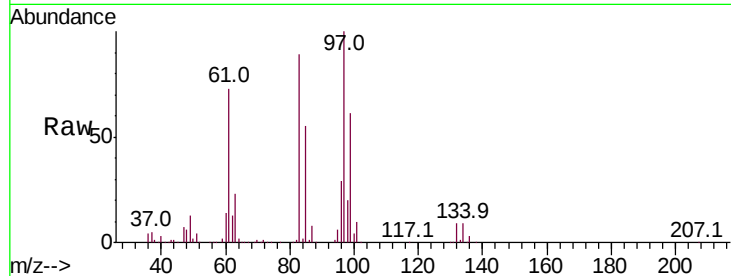
#55
 1,1,2-Trichloroethane
 Concen: 64.859 ug/l
 RT: 10.79 min Scan# 1457
 Delta R.T. 0.00 min
 Lab File: VW010903.D
 Acq: 20 Jun 2019 20:51

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	97	Resp	108776
Ion	Ratio	Lower	Upper
97	100		
83	88.8	71.1	106.7
85	55.1	45.2	67.8
99	61.0	50.0	75.0

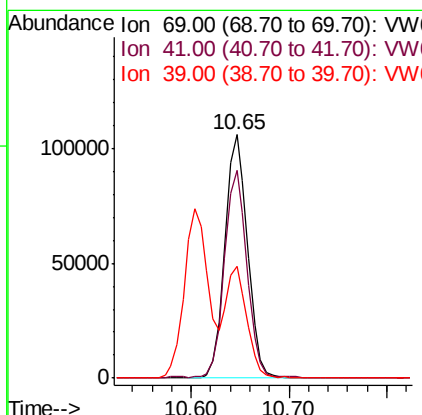
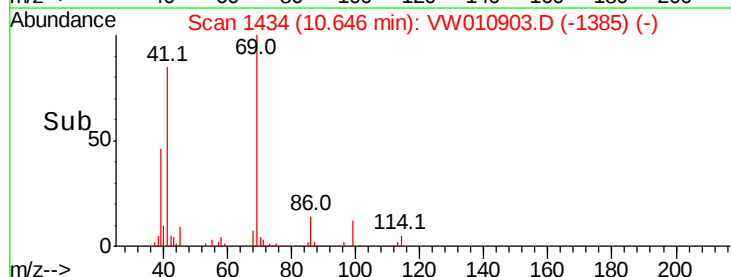
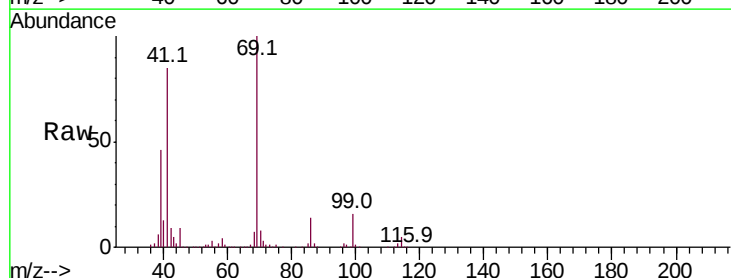
Manual Integrations
 APPROVED

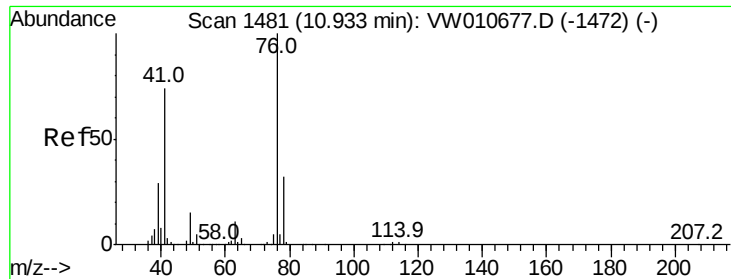
MMDadoda
 6/21/2019 3:20:41 PM



#56
 Ethyl methacrylate
 Concen: 65.865 ug/l
 RT: 10.65 min Scan# 1434
 Delta R.T. 0.00 min
 Lab File: VW010903.D
 Acq: 20 Jun 2019 20:51

Tgt Ion	69	Resp	169973
Ion	Ratio	Lower	Upper
69	100		
41	84.3	64.8	97.2
39	42.3	32.2	48.2





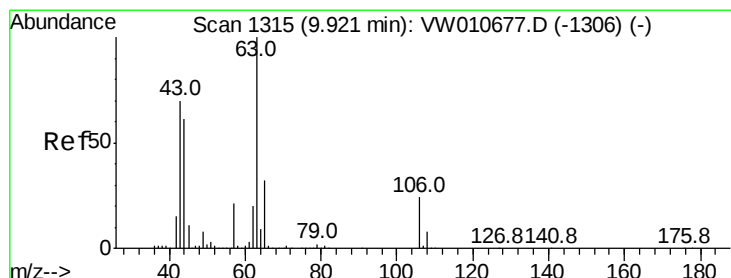
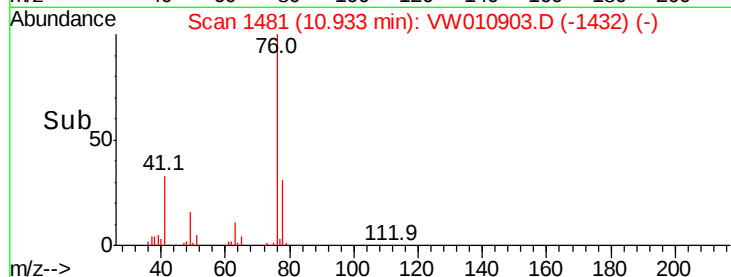
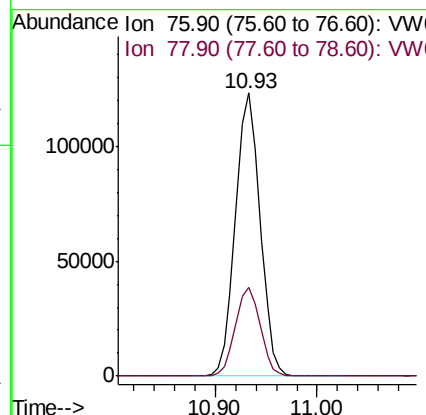
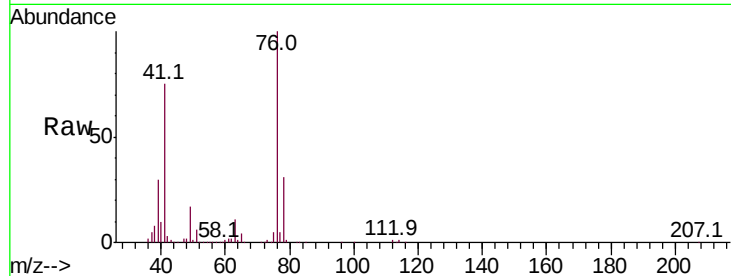
#57
 1,3-Dichloropropane
 Concen: 65.120 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. 0.00 min
 Lab File: VW010903.D
 Acq: 20 Jun 2019 20:51

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
76	100		
78	31.6	25.7	38.5

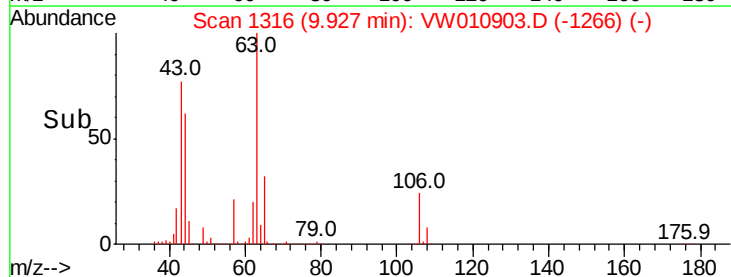
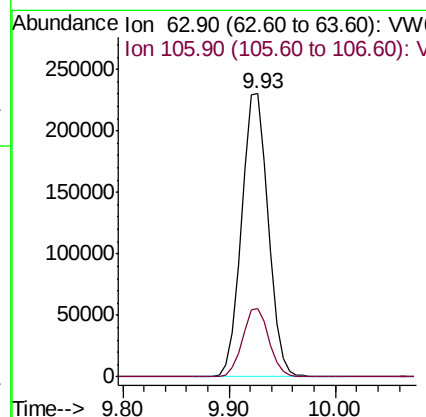
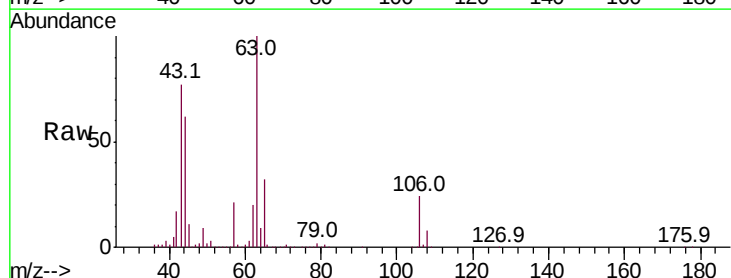
Manual Integrations
 APPROVED

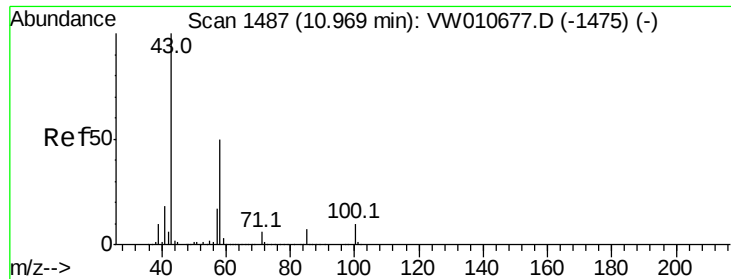
MMDadoda
 6/21/2019 3:20:41 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 300.987 ug/l
 RT: 9.93 min Scan# 1316
 Delta R.T. 0.01 min
 Lab File: VW010903.D
 Acq: 20 Jun 2019 20:51

Tgt Ion	Ratio	Lower	Upper
63	100		
106	23.9	20.1	30.1





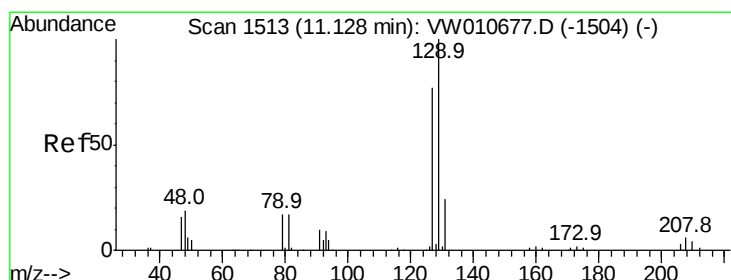
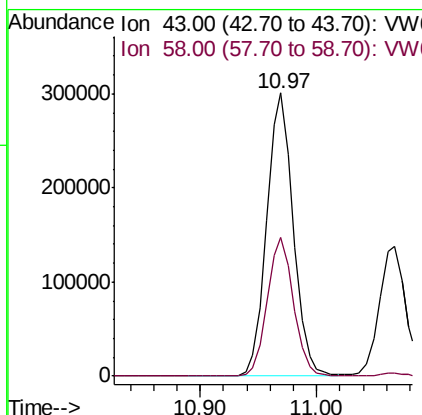
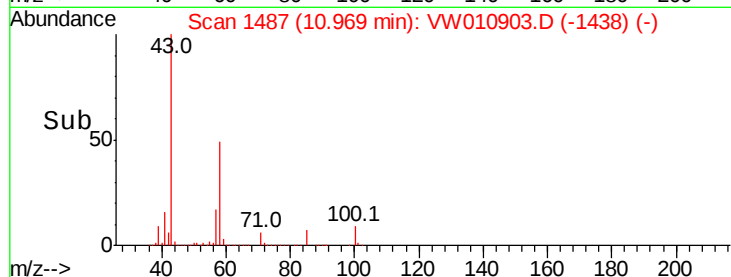
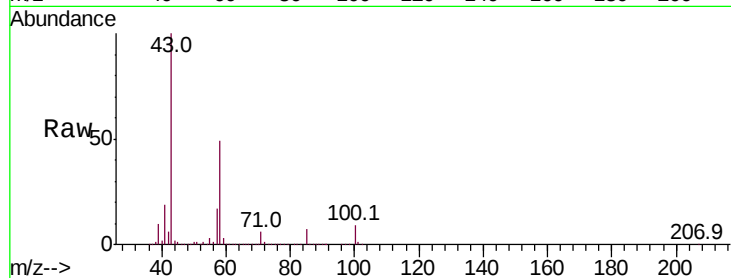
#59
2-Hexanone
Concen: 346.631 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW010903.D
Acq: 20 Jun 2019 20:51

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 475544
Ion Ratio Lower Upper
43 100
58 48.6 24.9 74.6

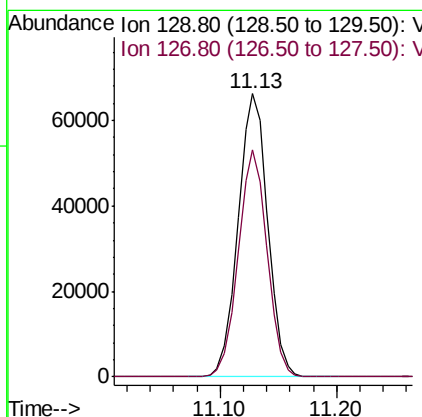
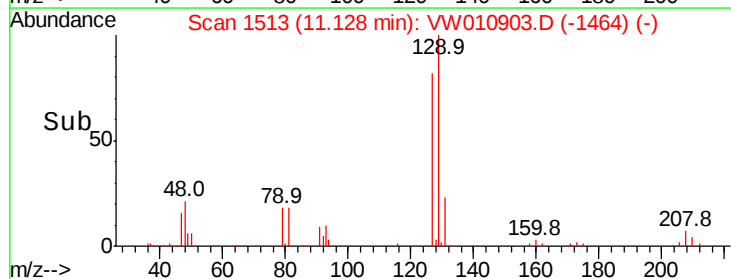
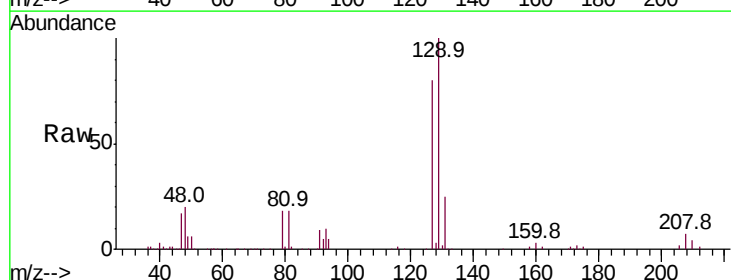
Manual Integrations
APPROVED

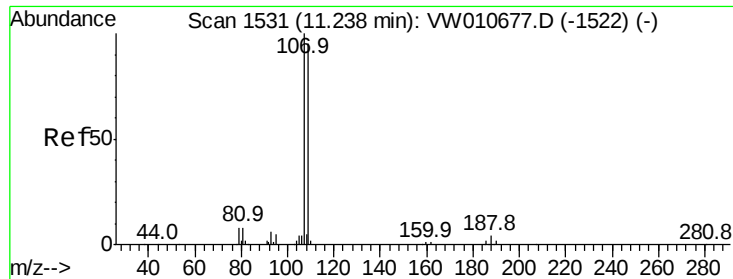
MMDadoda
6/21/2019 3:20:41 PM



#60
Dibromochloromethane
Concen: 62.992 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW010903.D
Acq: 20 Jun 2019 20:51

Tgt Ion:129 Resp: 117111
Ion Ratio Lower Upper
129 100
127 78.1 38.6 116.0





#61

1,2-Dibromoethane

Concen: 63.362 ug/l

RT: 11.24 min Scan# 1531

Delta R.T. 0.00 min

Lab File: VW010903.D

Acq: 20 Jun 2019 20:51

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

Tot Ion:107 Resp: 100682

Ion Ratio Lower Upper

107 100

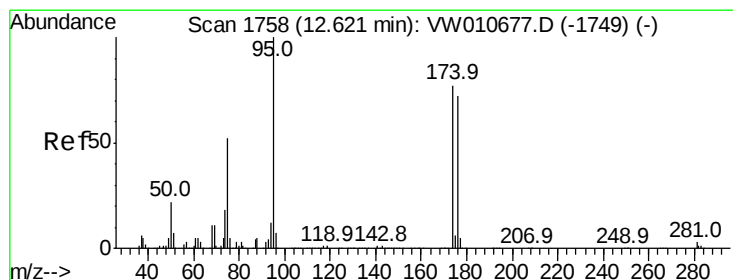
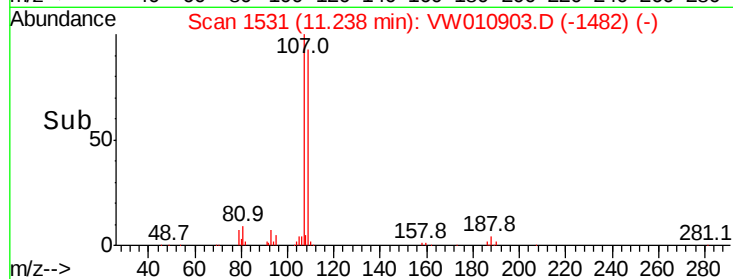
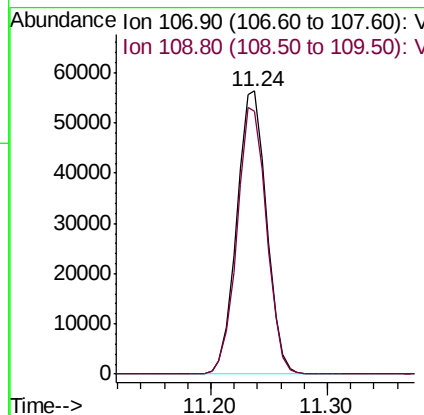
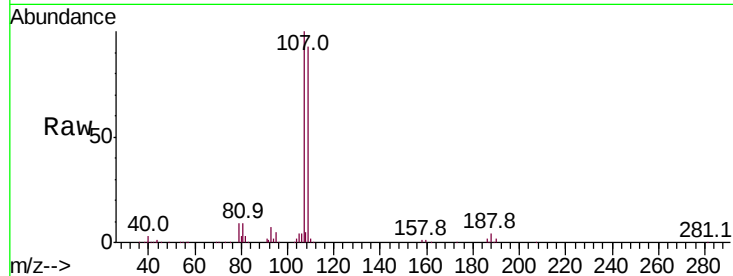
109 93.5 75.8 113.8

Manual Integrations

APPROVED

MMDadoda

6/21/2019 3:20:41 PM



#62

4-Bromofluorobenzene

Concen: 58.682 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW010903.D

Acq: 20 Jun 2019 20:51

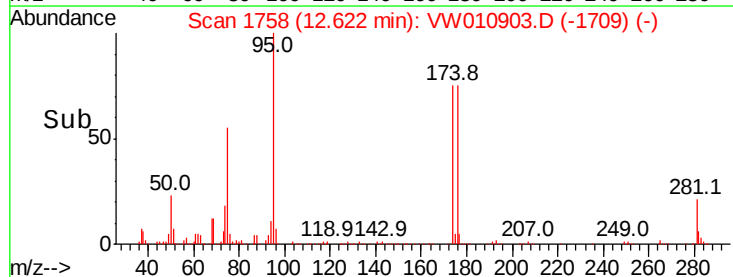
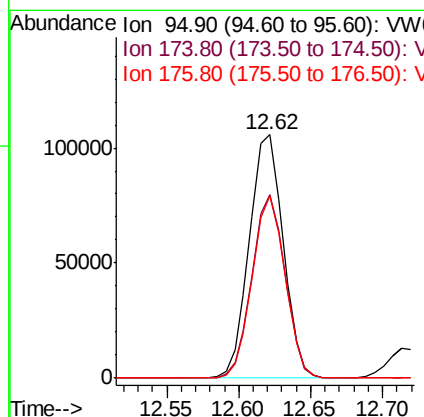
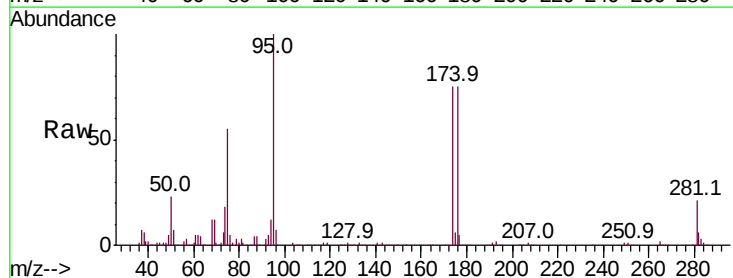
Tgt Ion: 95 Resp: 172331

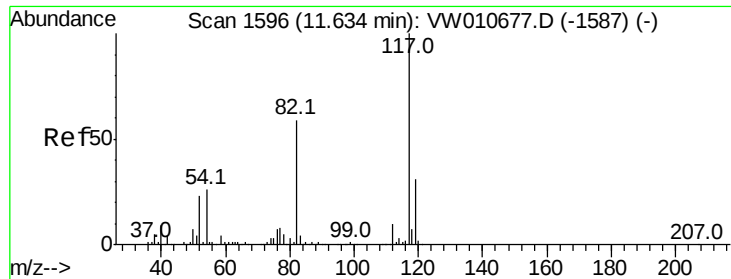
Ion Ratio Lower Upper

95 100

174 73.8 0.0 150.4

176 72.1 0.0 144.8





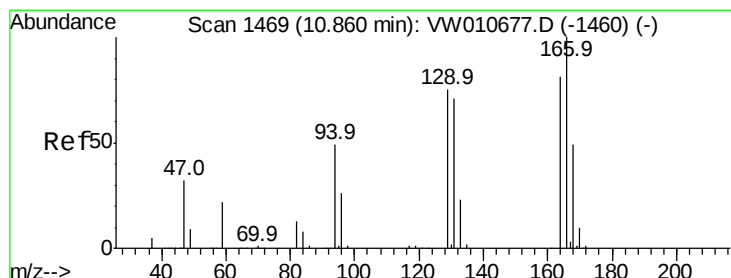
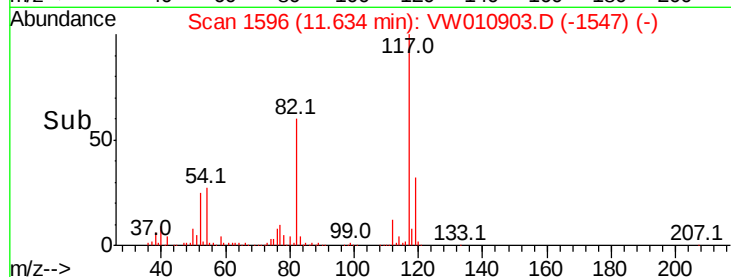
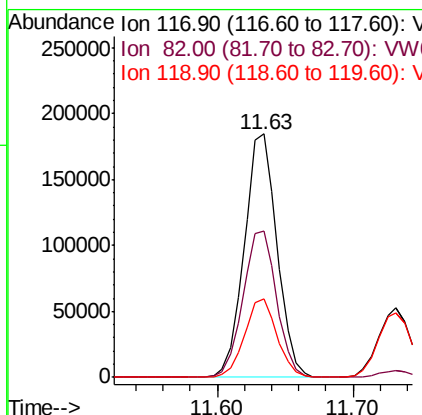
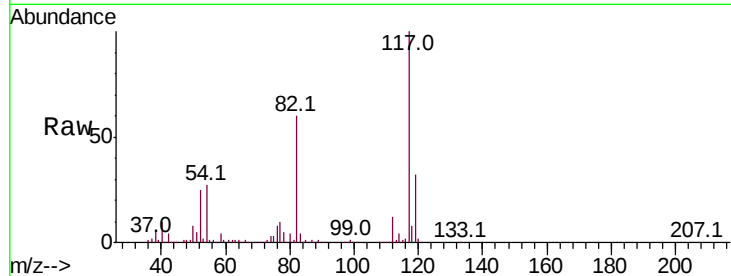
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW010903.D
Acq: 20 Jun 2019 20:51

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
117	100			
82	60.1	47.0	70.4	
119	32.5	25.1	37.7	

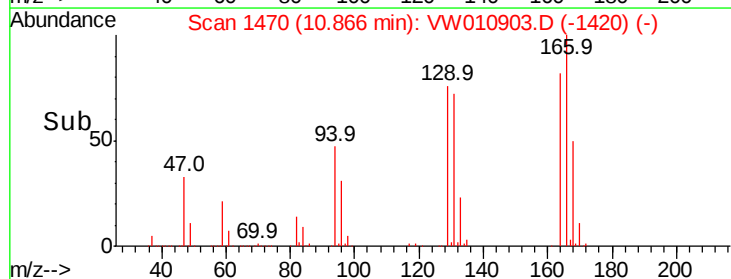
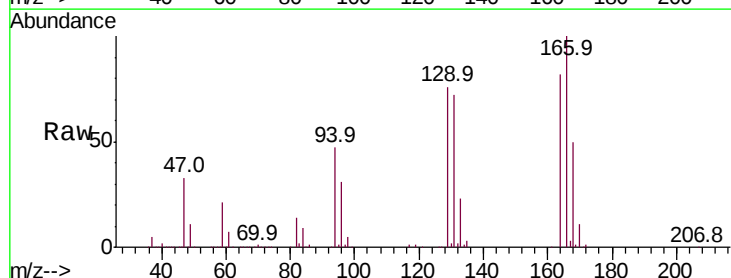
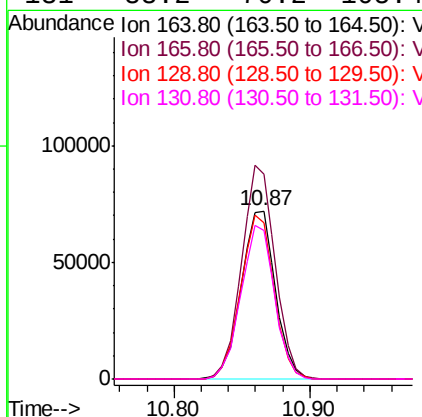
Manual Integrations
APPROVED

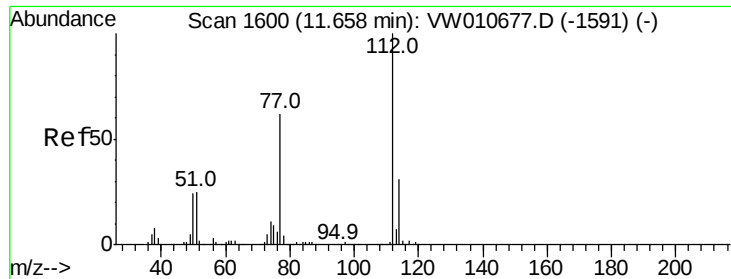
MMDadoda
6/21/2019 3:20:41 PM



#64
Tetrachloroethene
Concen: 61.269 ug/l
RT: 10.87 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VW010903.D
Acq: 20 Jun 2019 20:51

Tgt Ion	Ratio	Resp	Lower	Upper
164	100			
166	122.0	99.2	148.8	
129	92.9	74.6	112.0	
131	88.2	70.2	105.4	





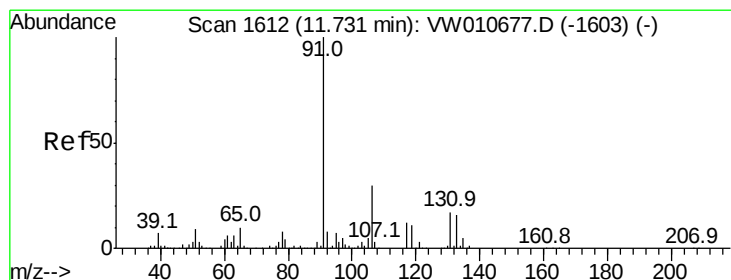
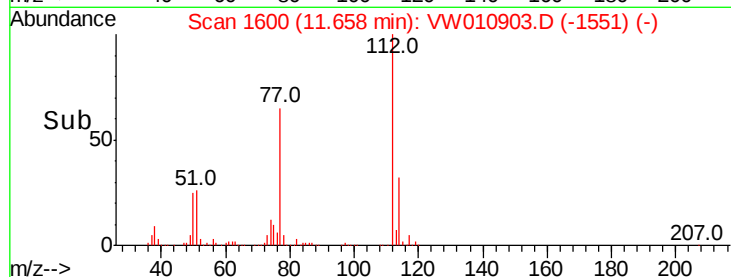
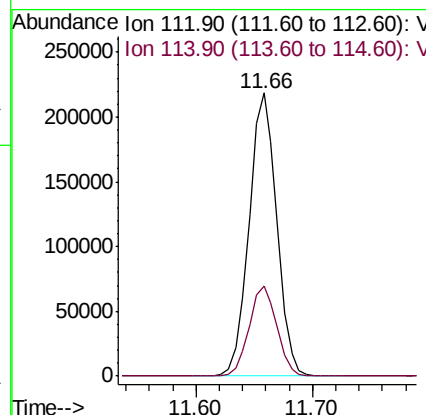
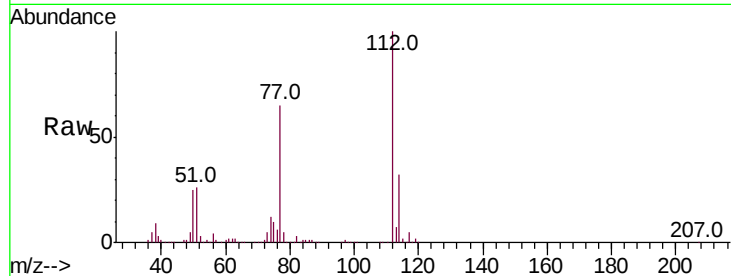
#65
Chlorobenzene
Concen: 59.274 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW010903.D
Acq: 20 Jun 2019 20:51

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion:112 Resp: 361764
Ion Ratio Lower Upper
112 100
114 31.9 24.8 37.2

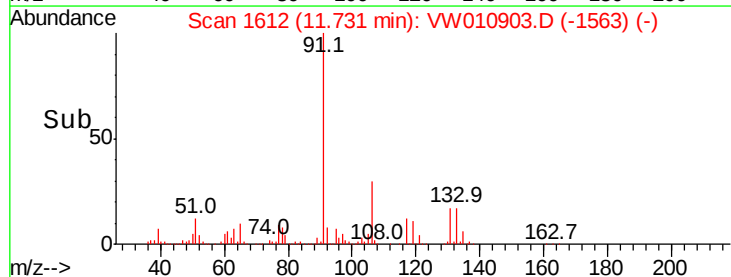
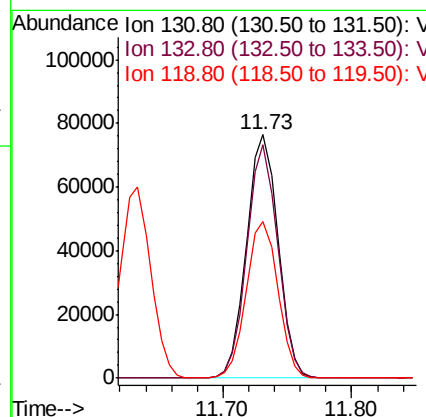
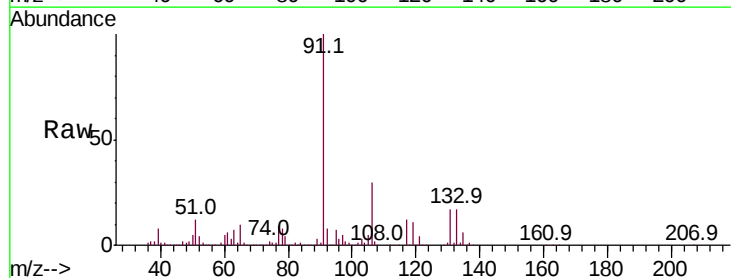
Manual Integrations
APPROVED

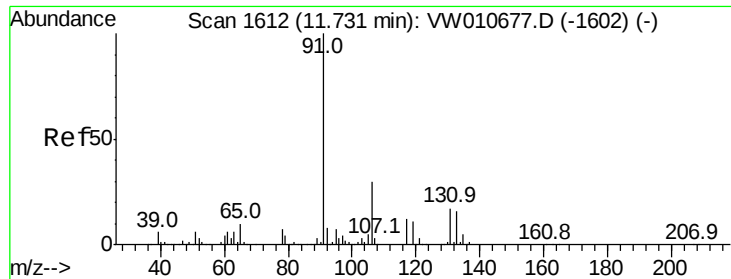
MMDadoda
6/21/2019 3:20:41 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 61.107 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW010903.D
Acq: 20 Jun 2019 20:51

Tgt Ion:131 Resp: 129104
Ion Ratio Lower Upper
131 100
133 93.5 47.3 141.9
119 64.9 32.4 97.0





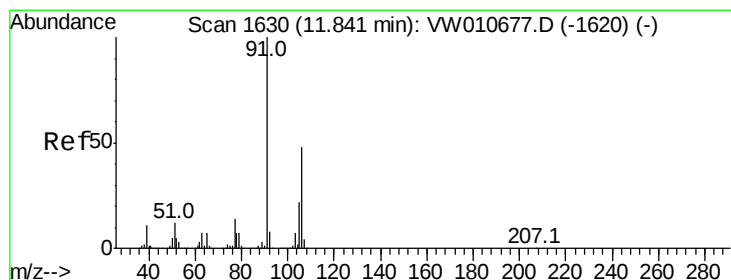
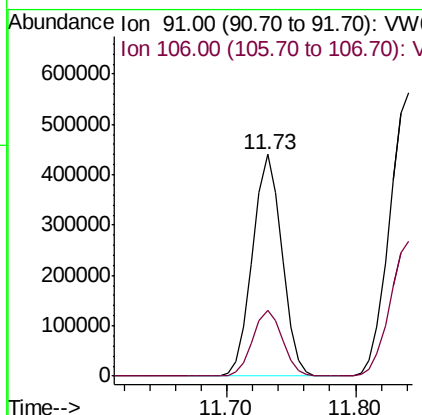
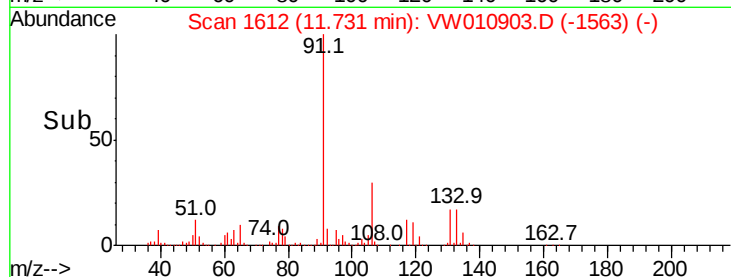
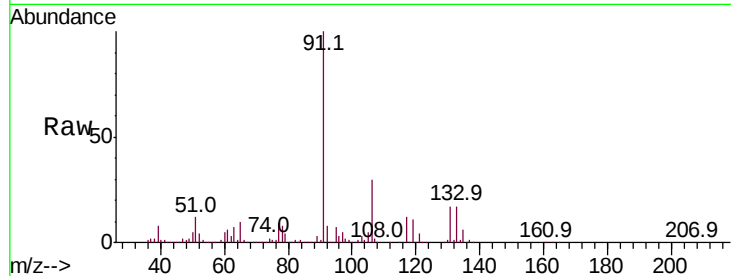
#67
Ethyl Benzene
Concen: 58.958 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW010903.D
Acq: 20 Jun 2019 20:51

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 691551
Ion Ratio Lower Upper
91 100
106 29.6 24.2 36.4

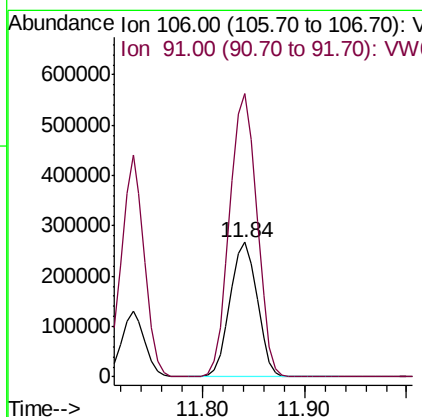
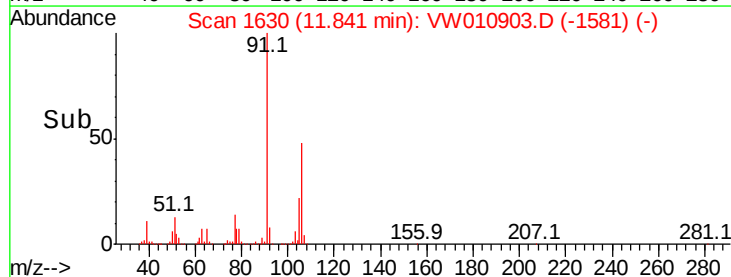
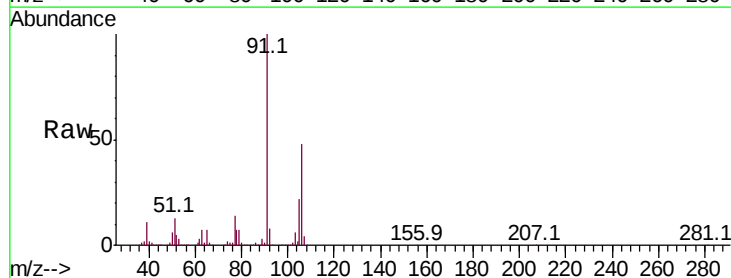
Manual Integrations
APPROVED

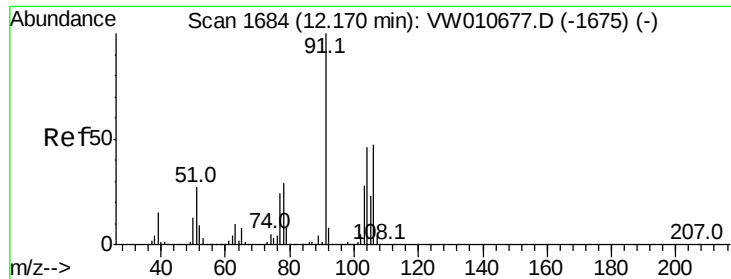
MMDadoda
6/21/2019 3:20:41 PM



#68
m/p-Xylenes
Concen: 117.398 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW010903.D
Acq: 20 Jun 2019 20:51

Tgt Ion: 106 Resp: 492943
Ion Ratio Lower Upper
106 100
91 212.2 166.5 249.7





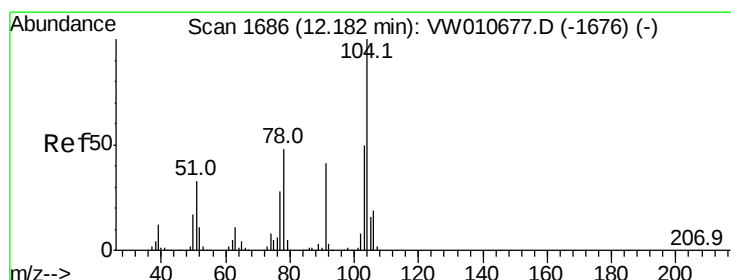
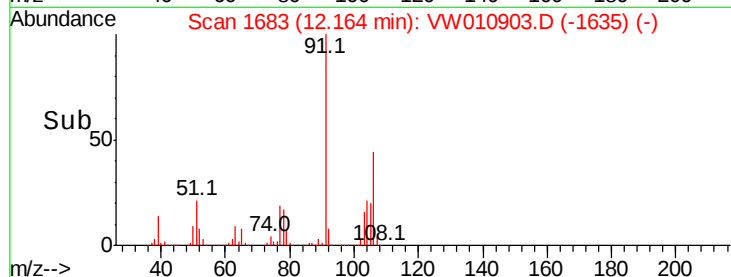
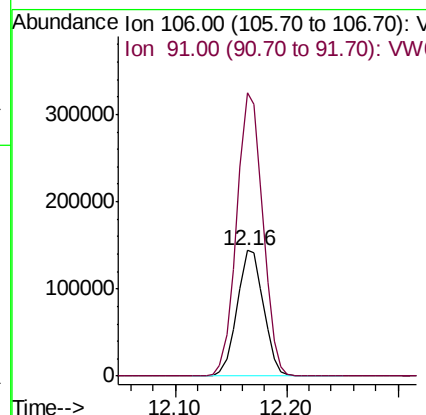
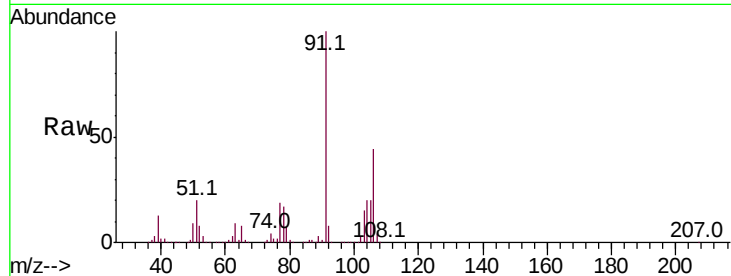
#69
o-Xylene
Concen: 59.389 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.01 min
Lab File: VW010903.D
Acq: 20 Jun 2019 20:51

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
106	100		
91	223.2	108.9	326.6

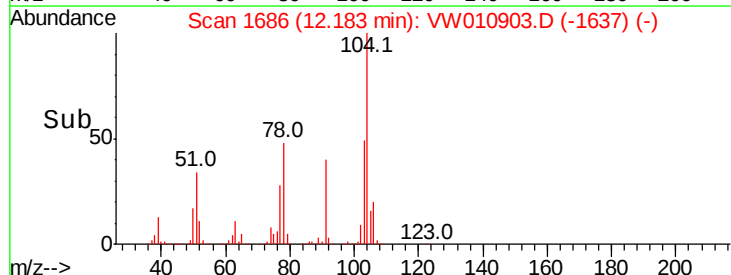
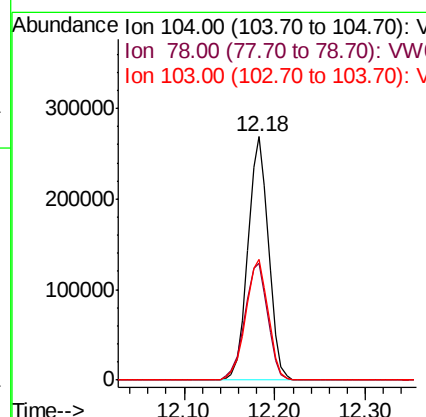
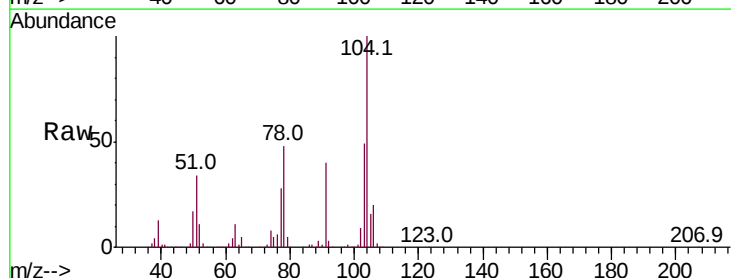
Manual Integrations
APPROVED

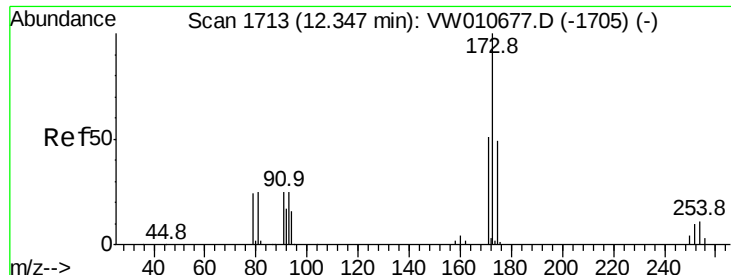
MMDadoda
6/21/2019 3:20:41 PM



#70
Styrene
Concen: 61.051 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW010903.D
Acq: 20 Jun 2019 20:51

Tgt Ion	Ratio	Lower	Upper
104	100		
78	53.7	42.7	64.1
103	54.0	43.6	65.4





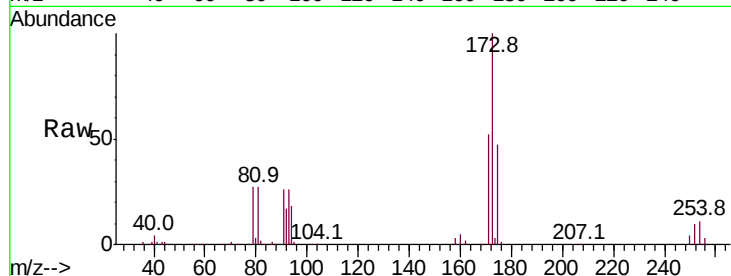
#71
Bromoform
Concen: 60.811 ug/l
RT: 12.35 min Scan# 1713
Delta R.T. 0.00 min
Lab File: VW010903.D
Acq: 20 Jun 2019 20:51

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.4	24.3	72.8
254	0.1	0.1	0.1#

Manual Integrations
APPROVED

MMDadoda
6/21/2019 3:20:41 PM

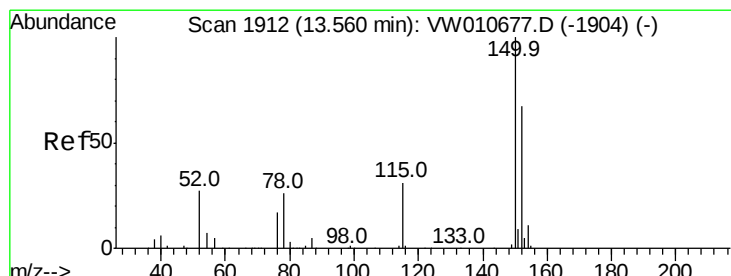
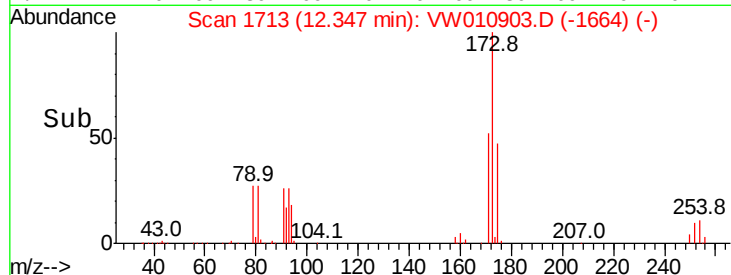
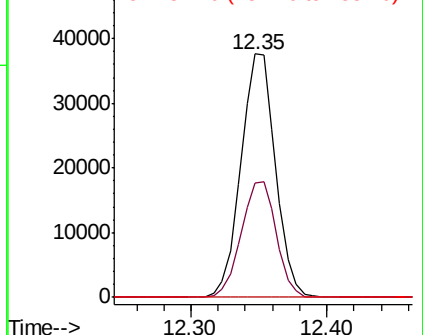


Abundance

Ion 172.70 (172.40 to 173.40): V

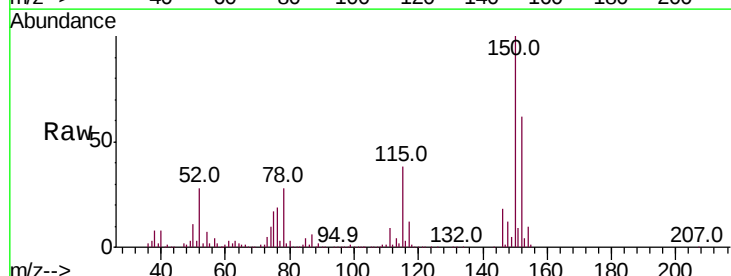
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW010903.D
Acq: 20 Jun 2019 20:51

Tgt Ion	Ratio	Lower	Upper
152	100		
115	61.0	29.8	89.3
150	174.8	0.0	345.0

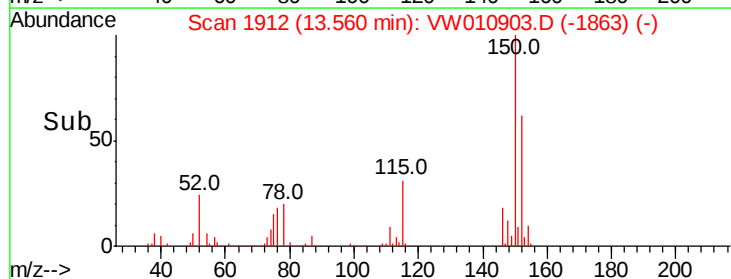
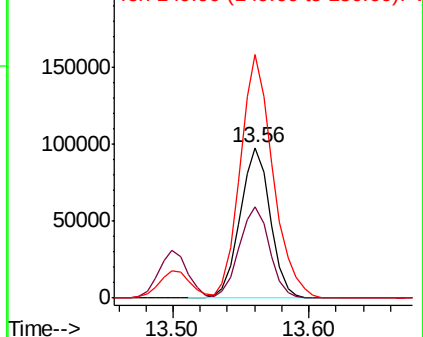


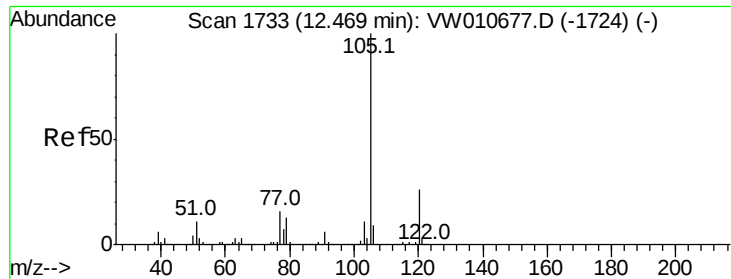
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 57.756 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.01 min

Lab File: VW010903.D

Acq: 20 Jun 2019 20:51

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 654951

Ion Ratio Lower Upper

105 100

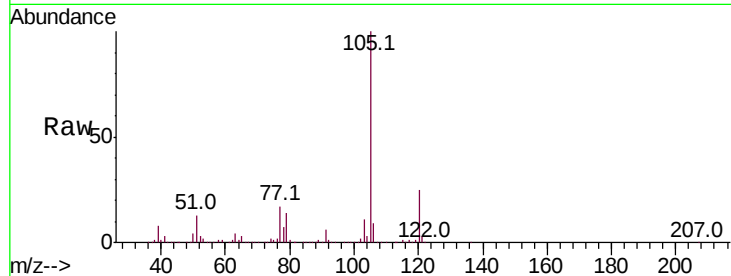
120 25.5 13.1 39.1

Manual Integrations

APPROVED

MMDadoda

6/21/2019 3:20:41 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.46

400000

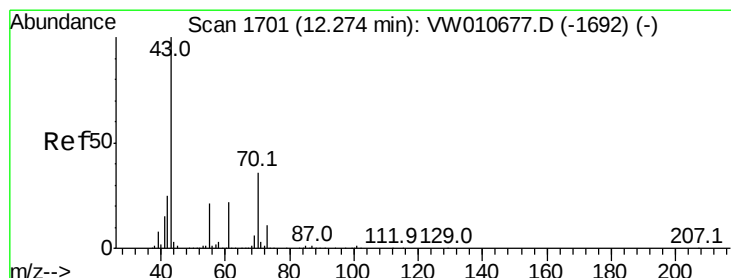
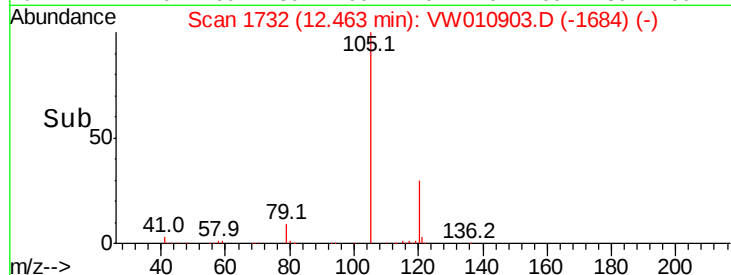
300000

200000

100000

0

Time-->



#74

N-ethyl acetate

Concen: 66.766 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VW010903.D

Acq: 20 Jun 2019 20:51

Tgt Ion: 43 Resp: 244692

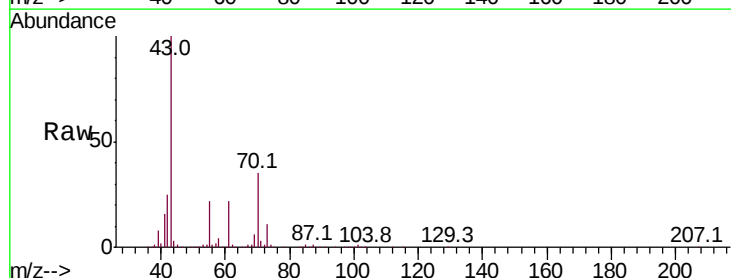
Ion Ratio Lower Upper

43 100

70 35.6 29.2 43.8

55 22.3 17.5 26.3

61 21.6 17.4 26.2



Abundance Ion 43.00 (42.70 to 43.70): VV

Ion 70.00 (69.70 to 70.70): VV

Ion 55.00 (54.70 to 55.70): VV

Ion 61.00 (60.70 to 61.70): VV

250000

200000

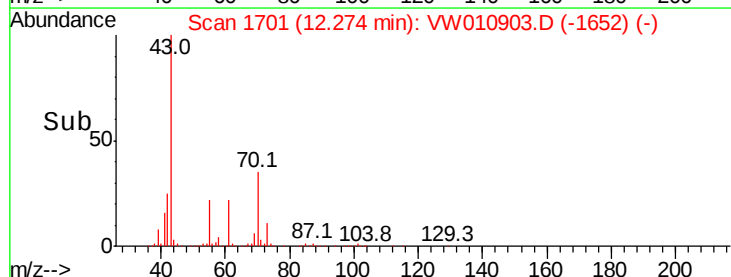
150000

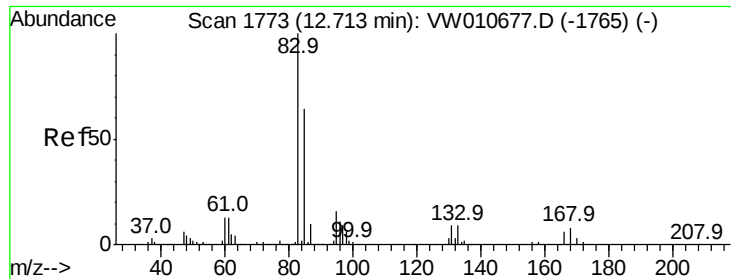
100000

50000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 62.733 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW010903.D

Acq: 20 Jun 2019 20:51

Instrument :

MSVOA_W

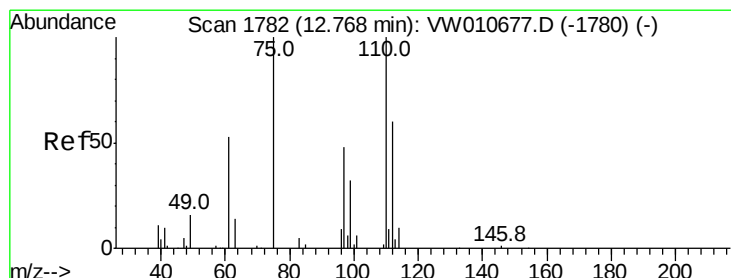
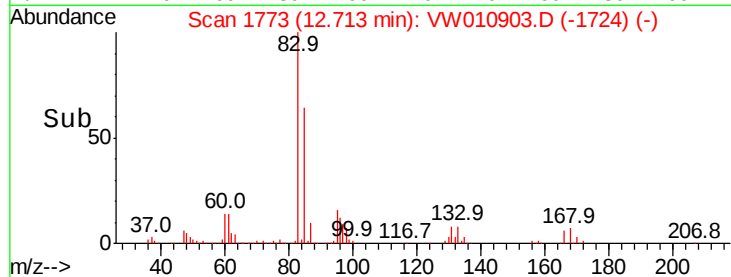
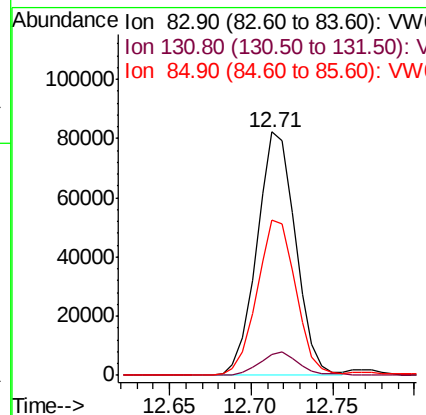
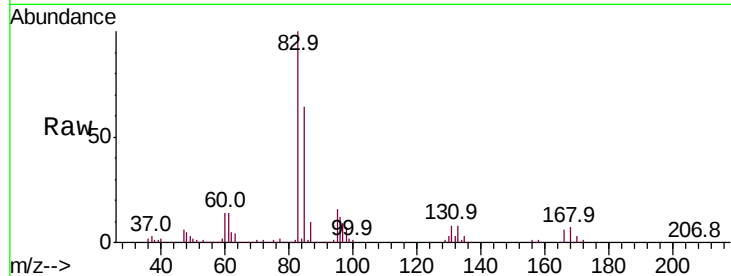
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	135430
Ion Ratio	Lower	Upper	
83	100		
131	9.8	4.9	14.7
85	64.0	31.9	95.9

Manual Integrations
APPROVED

MMDadoda
6/21/2019 3:20:41 PM



#76

1,2,3-Trichloropropane

Concen: 62.069 ug/l m

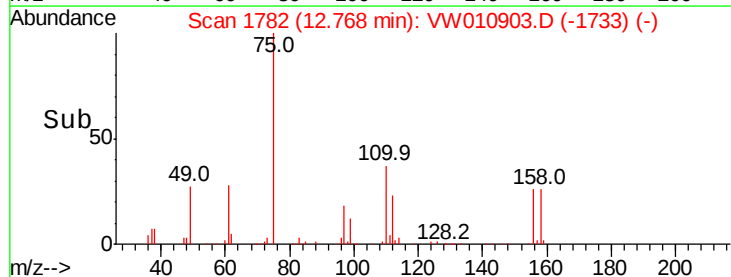
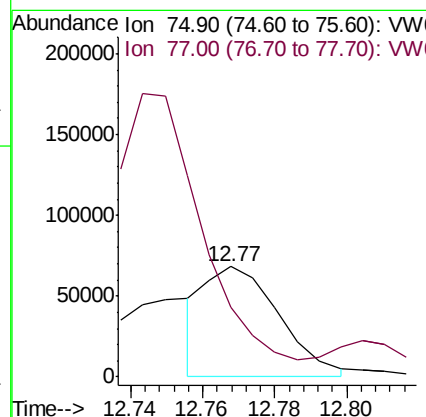
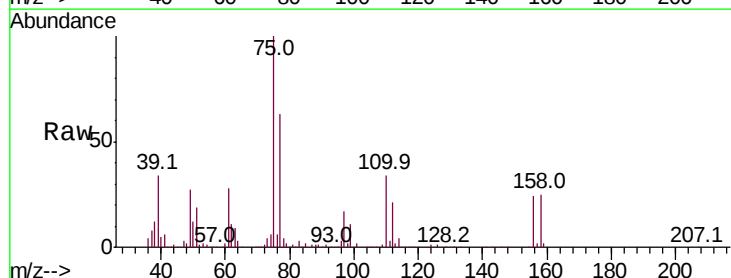
RT: 12.77 min Scan# 1782

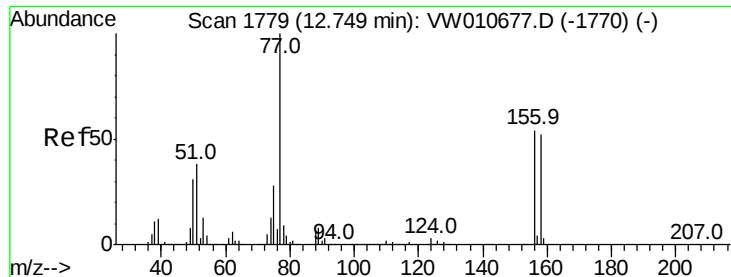
Delta R.T. 0.00 min

Lab File: VW010903.D

Acq: 20 Jun 2019 20:51

Tgt Ion:	75	Resp:	98361
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 59.671 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. 0.00 min

Lab File: VW010903.D

Acq: 20 Jun 2019 20:51

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

Tot Ion:156 Resp: 147706

Ion Ratio Lower Upper

156 100

77 218.3 106.5 319.4

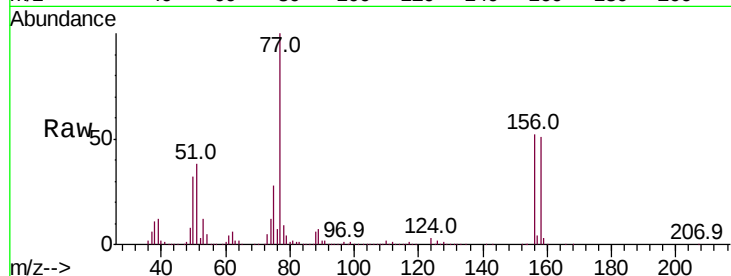
158 97.3 48.3 144.9

Manual Integrations

APPROVED

MMDadoda

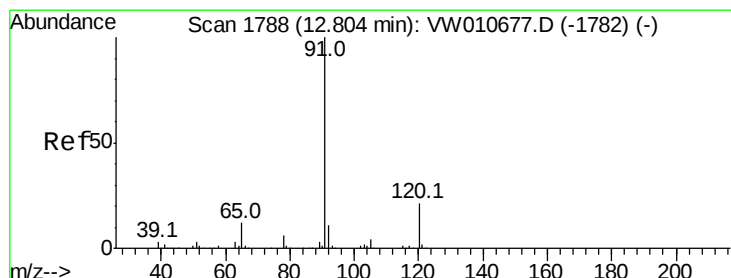
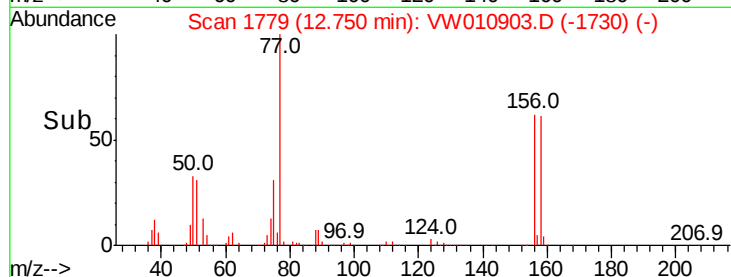
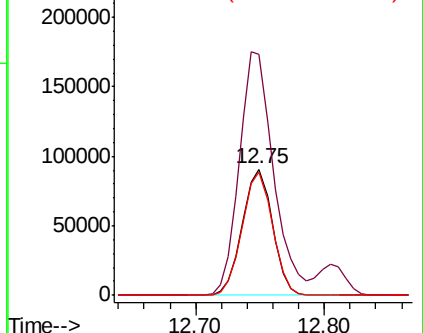
6/21/2019 3:20:41 PM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.30): VW

Ion 157.80 (157.50 to 158.10): V



#78

n-propylbenzene

Concen: 58.485 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. 0.00 min

Lab File: VW010903.D

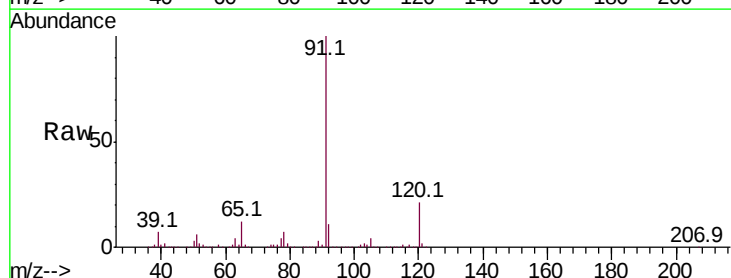
Acq: 20 Jun 2019 20:51

Tgt Ion: 91 Resp: 799712

Ion Ratio Lower Upper

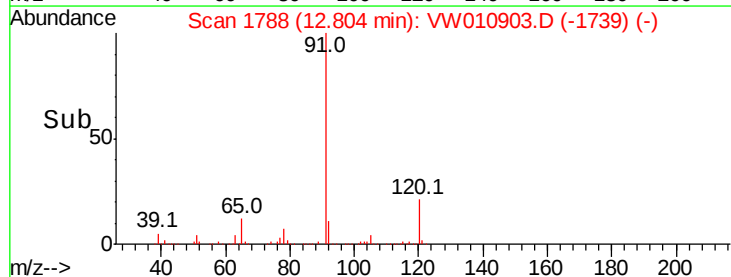
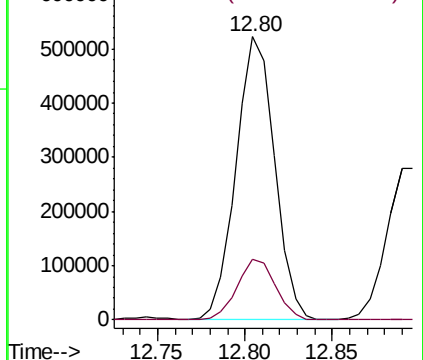
91 100

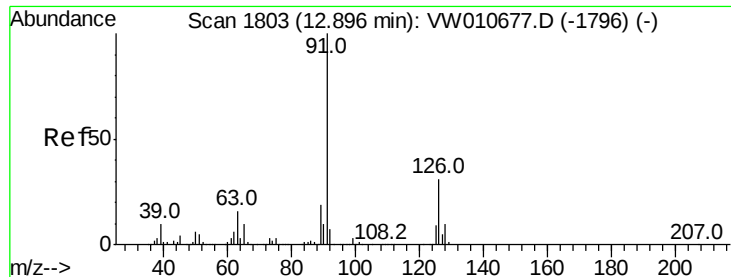
120 21.5 10.8 32.4



Abundance Ion 91.00 (90.70 to 91.30): VW

Ion 120.00 (119.70 to 120.30): V





#79

2-Chlorotoluene

Concen: 59.196 ug/l

RT: 12.90 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VW010903.D

Acq: 20 Jun 2019 20:51

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 462442

Ion Ratio Lower Upper

91 100

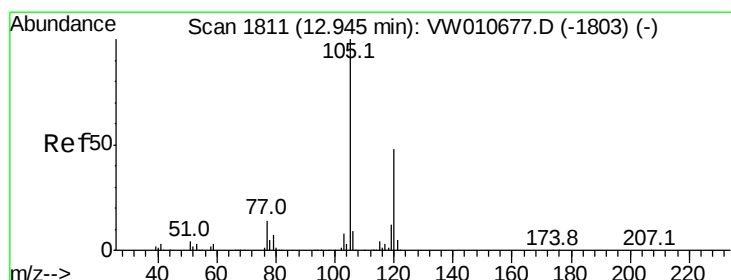
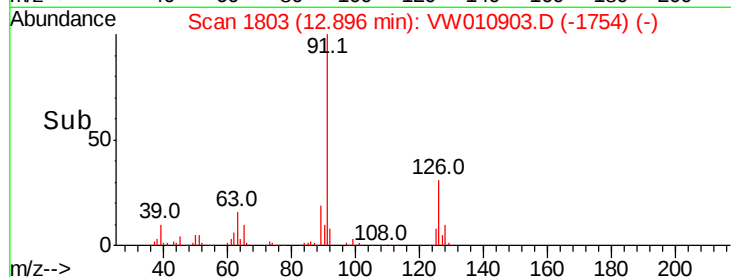
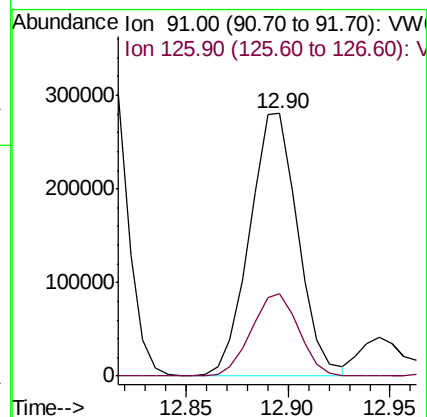
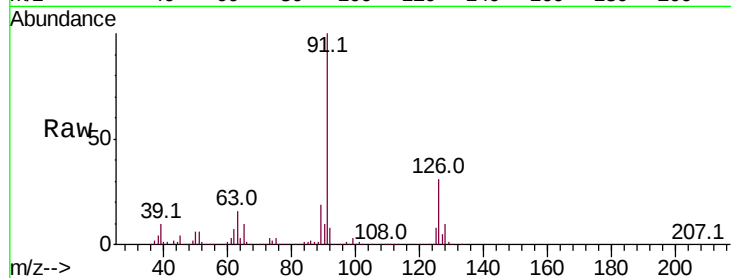
126 31.0 15.7 47.0

Manual Integrations

APPROVED

MMDadoda

6/21/2019 3:20:41 PM



#80

1,3,5-Trimethylbenzene

Concen: 59.625 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW010903.D

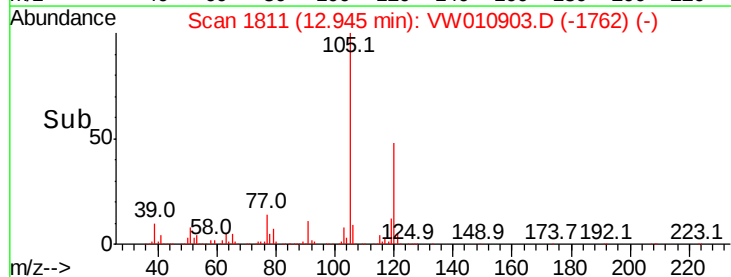
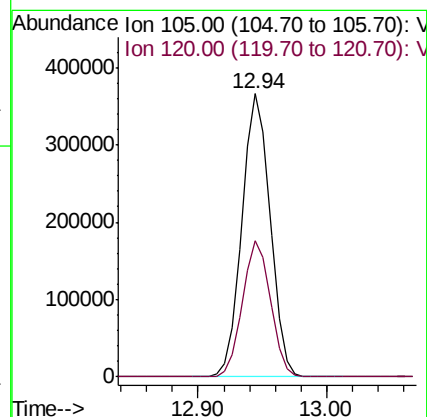
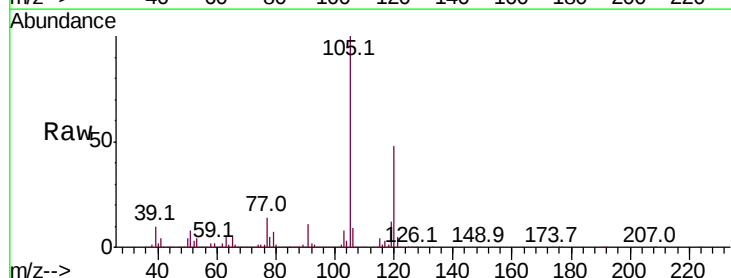
Acq: 20 Jun 2019 20:51

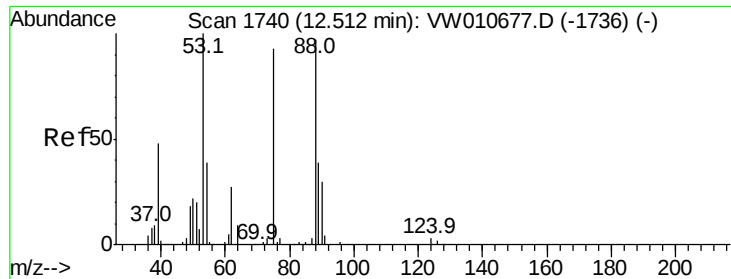
Tgt Ion: 105 Resp: 553435

Ion Ratio Lower Upper

105 100

120 47.9 24.3 72.8





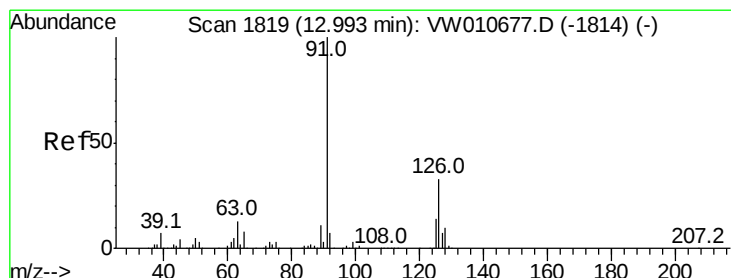
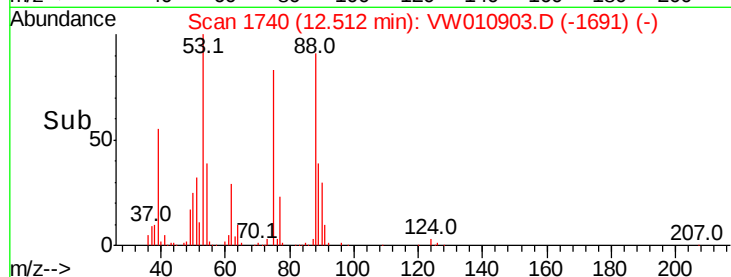
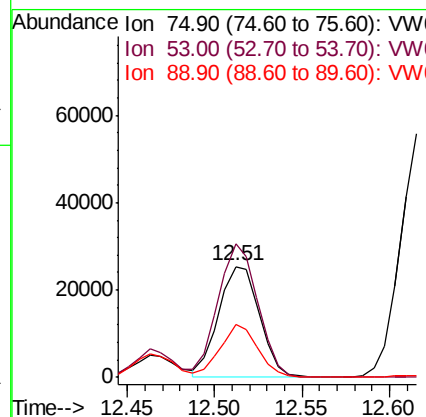
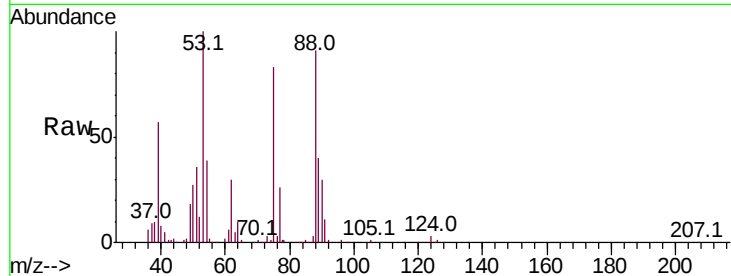
#81
trans-1,4-Dichloro-2-butene
Concen: 59.669 ug/l
RT: 12.51 min Scan# 1740
Delta R.T. 0.00 min
Lab File: VW010903.D
Acq: 20 Jun 2019 20:51

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
75	100		
53	120.1	90.1	135.1
89	44.2	34.6	52.0

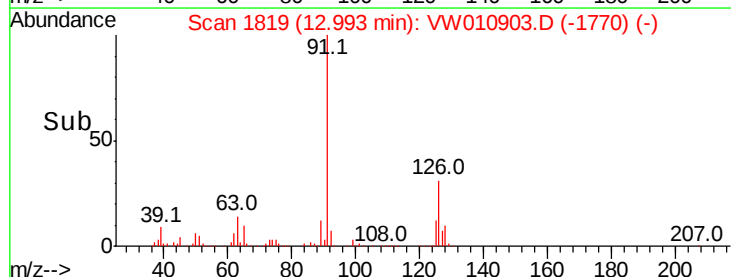
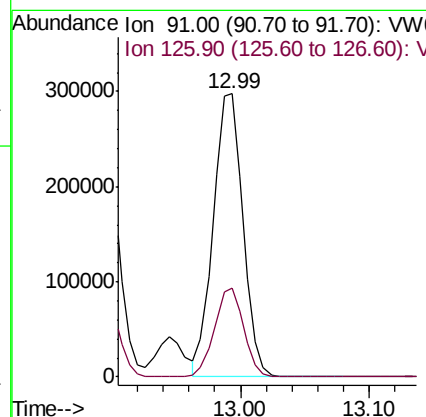
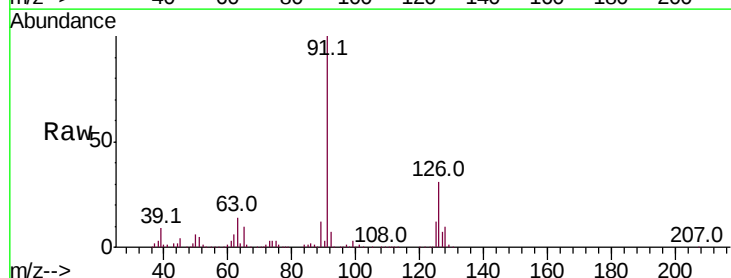
Manual Integrations
APPROVED

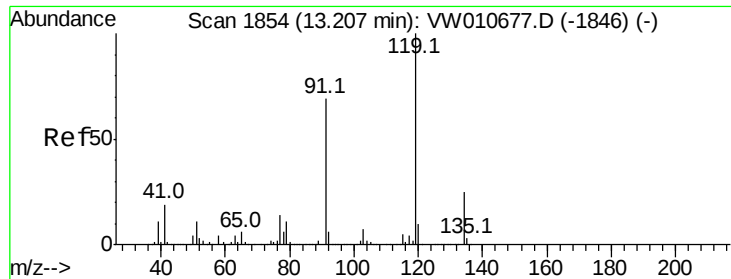
MMDadoda
6/21/2019 3:20:41 PM



#82
4-Chlorotoluene
Concen: 59.525 ug/l
RT: 12.99 min Scan# 1819
Delta R.T. 0.00 min
Lab File: VW010903.D
Acq: 20 Jun 2019 20:51

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.1	15.9	47.7





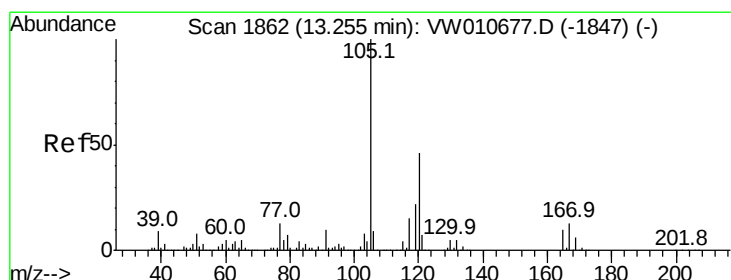
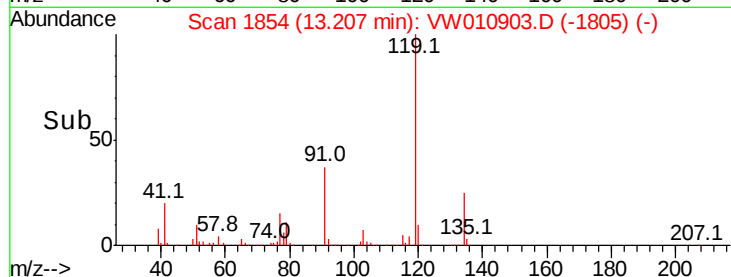
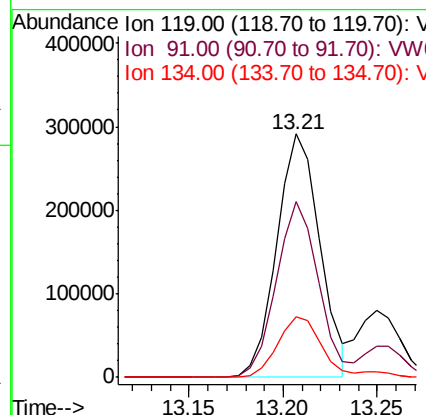
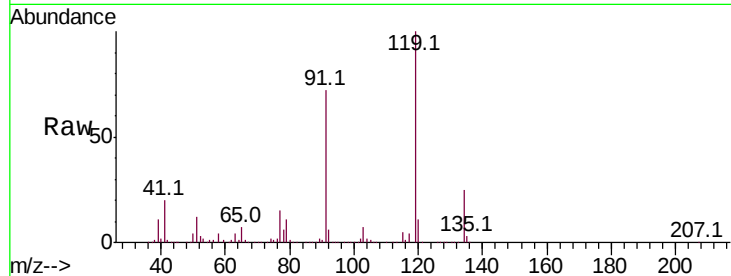
#83
tert-Butylbenzene
Concen: 58.545 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. 0.00 min
Lab File: VW010903.D
Acq: 20 Jun 2019 20:51

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
119	100		
91	71.2	35.1	105.3
134	26.9	13.6	40.7

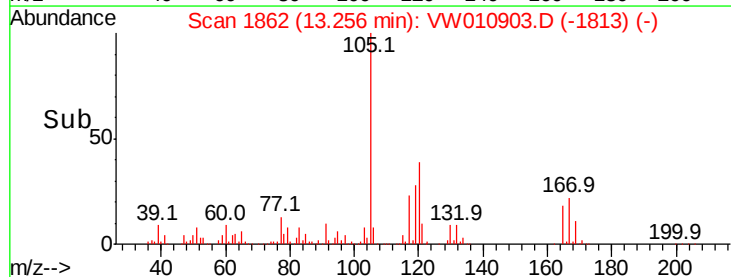
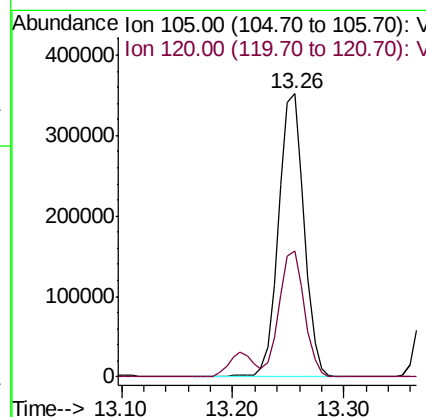
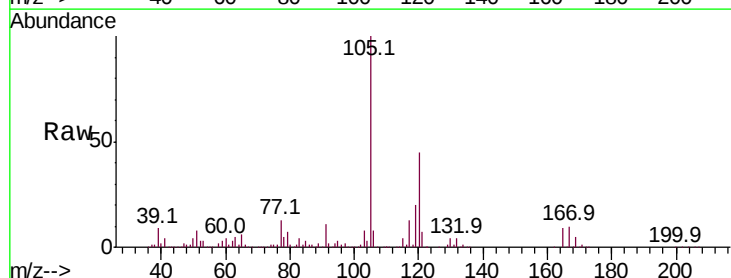
Manual Integrations
APPROVED

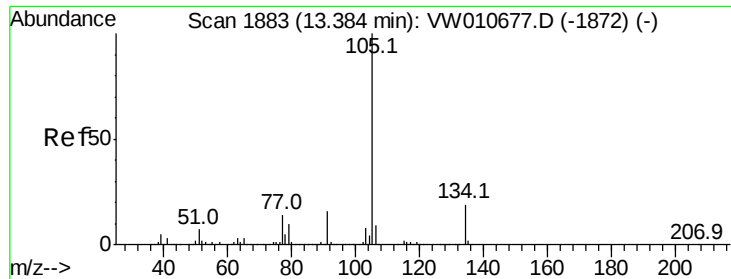
MMDadoda
6/21/2019 3:20:41 PM



#84
1,2,4-Trimethylbenzene
Concen: 59.915 ug/l
RT: 13.26 min Scan# 1862
Delta R.T. 0.00 min
Lab File: VW010903.D
Acq: 20 Jun 2019 20:51

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.5	67.5





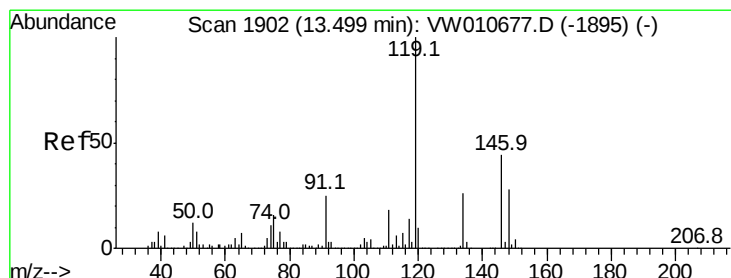
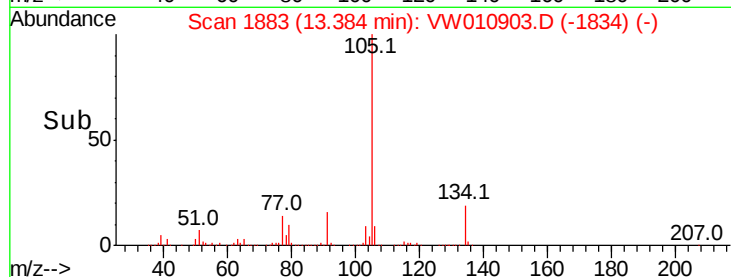
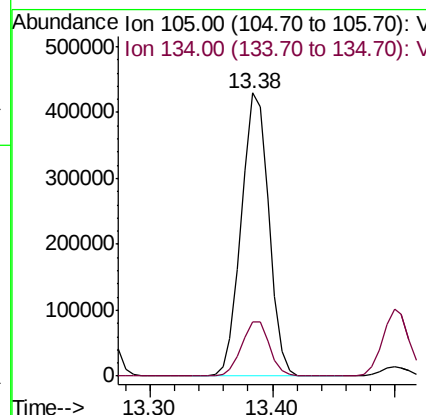
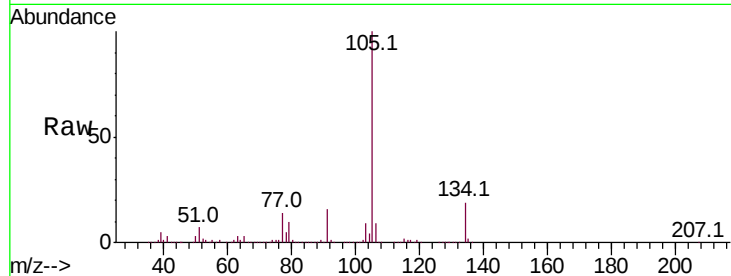
#85
 sec-Butylbenzene
 Concen: 58.162 ug/l
 RT: 13.38 min Scan# 1883
 Delta R.T. 0.00 min
 Lab File: VW010903.D
 Acq: 20 Jun 2019 20:51

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.7	28.9

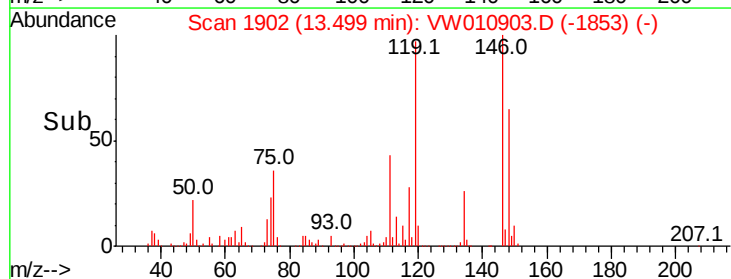
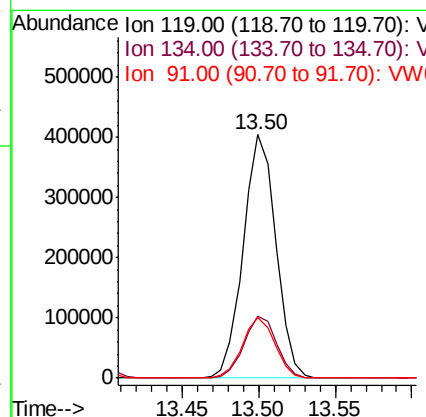
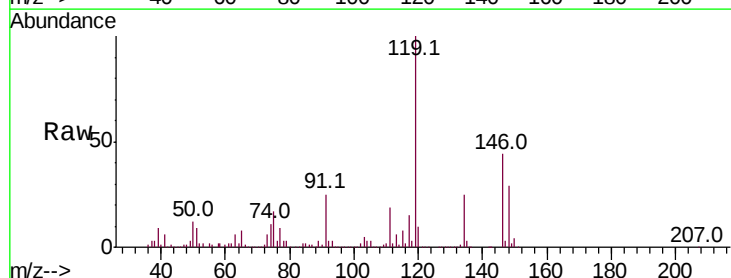
Manual Integrations
 APPROVED

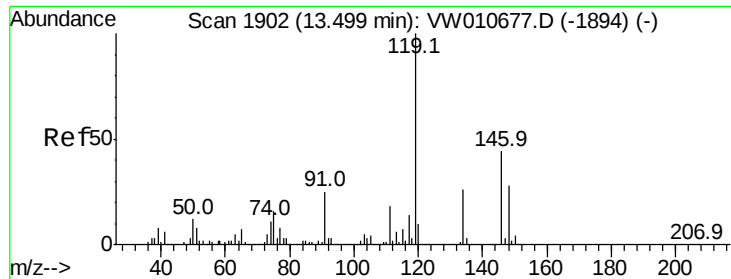
MMDadoda
 6/21/2019 3:20:41 PM



#86
 p-Isopropyltoluene
 Concen: 58.359 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW010903.D
 Acq: 20 Jun 2019 20:51

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.6	13.0	39.0
91	24.7	12.2	36.4





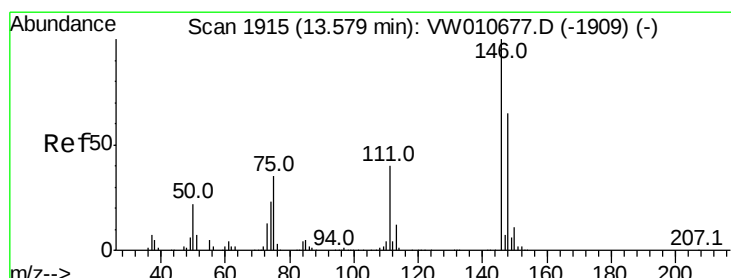
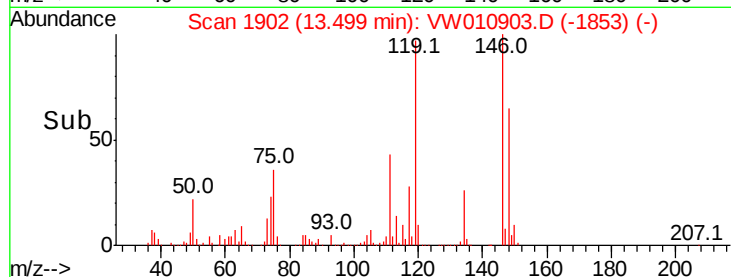
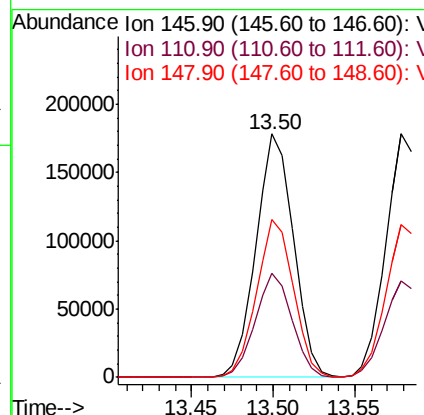
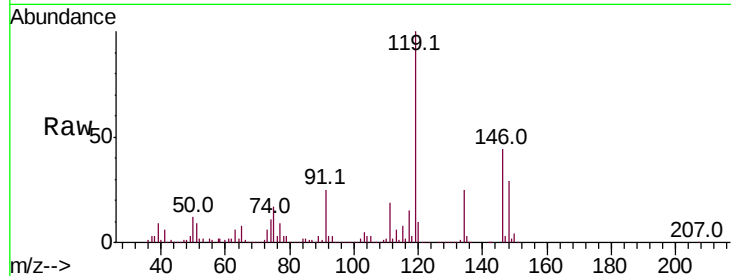
#87
 1,3-Dichlorobenzene
 Concen: 59.873 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW010903.D
 Acq: 20 Jun 2019 20:51

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
146	100	285807		
111	41.7	20.4	61.3	
148	63.9	31.5	94.5	

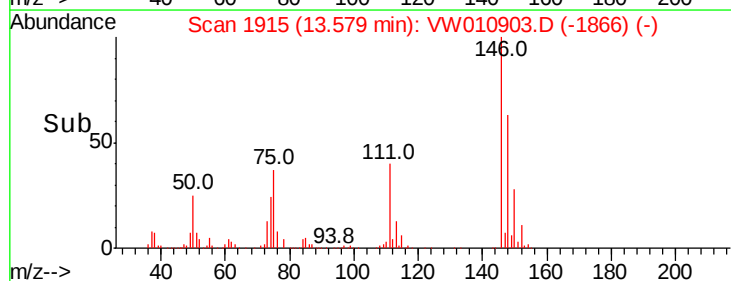
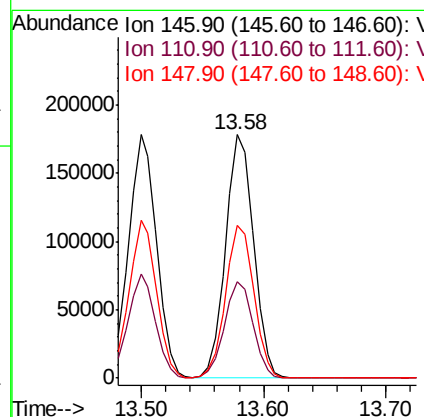
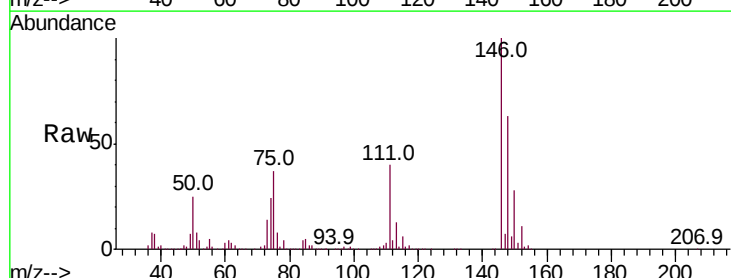
Manual Integrations
 APPROVED

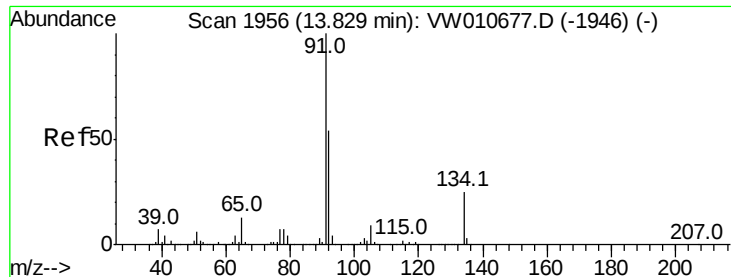
MMDadoda
 6/21/2019 3:20:41 PM



#88
 1,4-Dichlorobenzene
 Concen: 59.830 ug/l
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW010903.D
 Acq: 20 Jun 2019 20:51

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	283144		
111	40.3	20.3	60.9	
148	63.5	32.4	97.2	





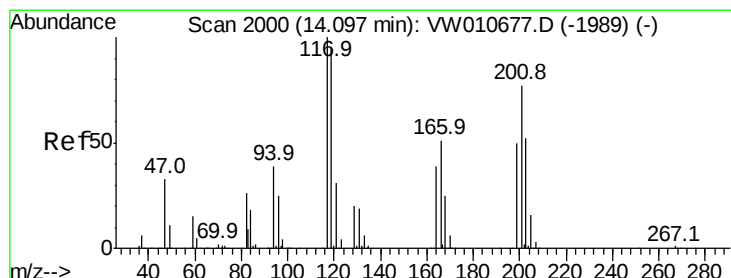
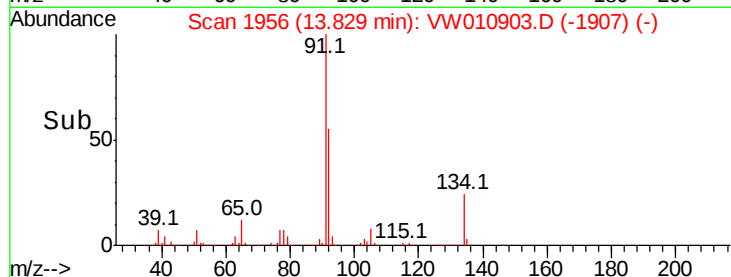
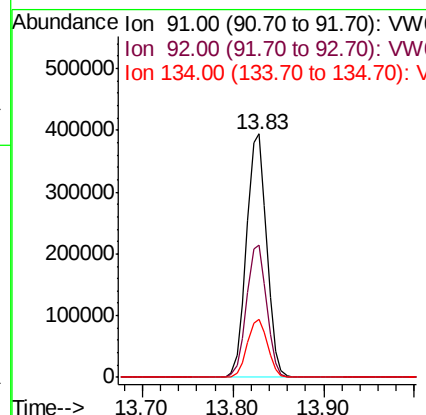
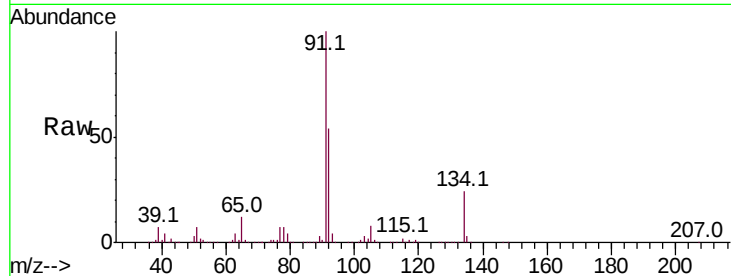
#89
n-Butylbenzene
Concen: 59.204 ug/l
RT: 13.83 min Scan# 1956
Delta R.T. 0.00 min
Lab File: VW010903.D
Acq: 20 Jun 2019 20:51

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
91	100		
92	54.3	27.3	81.8
134	24.0	12.3	36.9

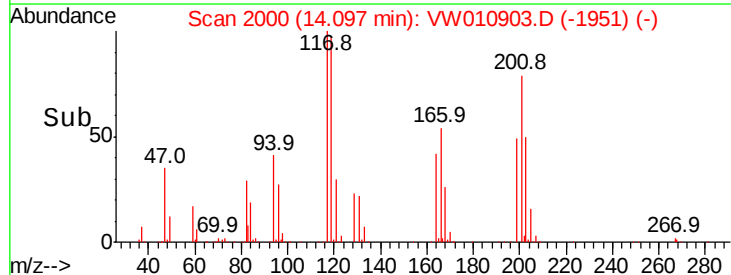
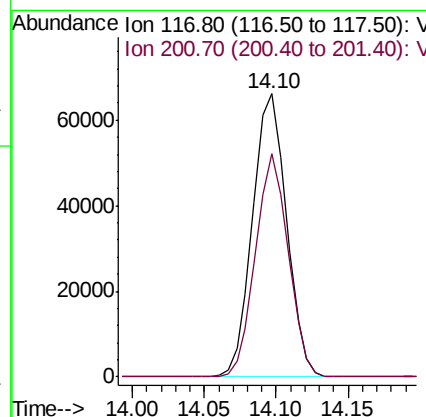
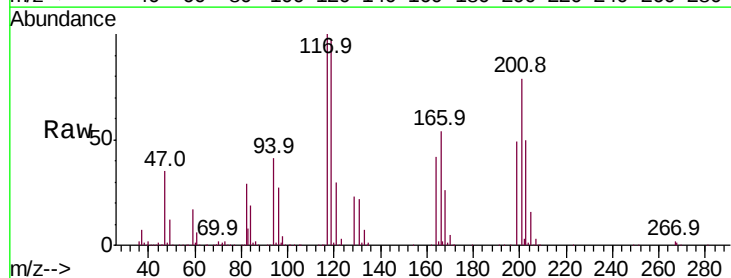
Manual Integrations
APPROVED

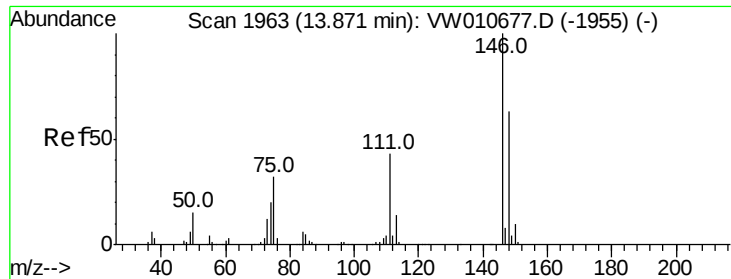
MMDadoda
6/21/2019 3:20:41 PM



#90
Hexachloroethane
Concen: 58.829 ug/l
RT: 14.10 min Scan# 2000
Delta R.T. 0.00 min
Lab File: VW010903.D
Acq: 20 Jun 2019 20:51

Tgt Ion	Ratio	Lower	Upper
117	100		
201	75.9	38.8	116.4





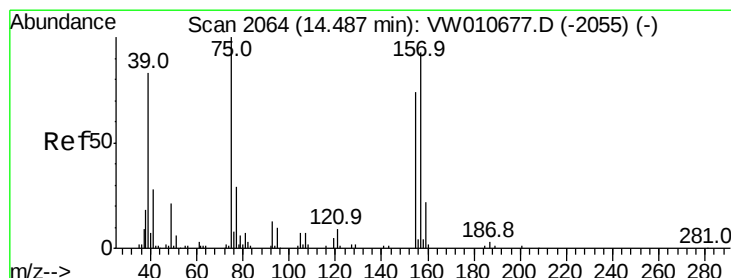
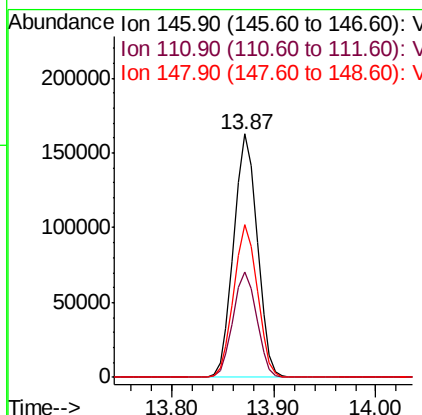
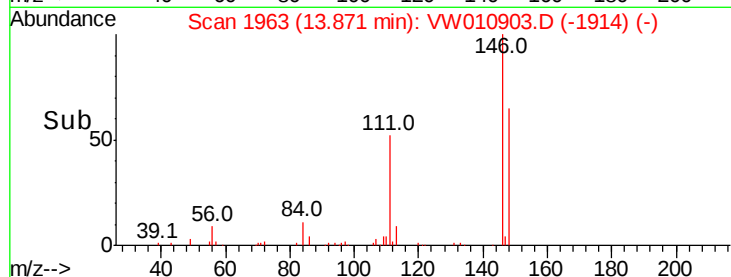
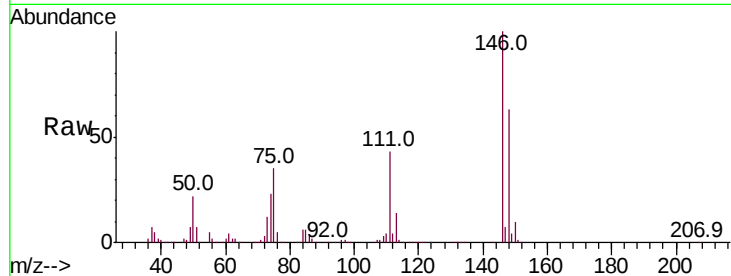
#91
 1,2-Dichlorobenzene
 Concen: 60.402 ug/l
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW010903.D
 Acq: 20 Jun 2019 20:51

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
146	100	259295		
111	43.8	21.5	64.5	
148	62.9	31.9	95.5	

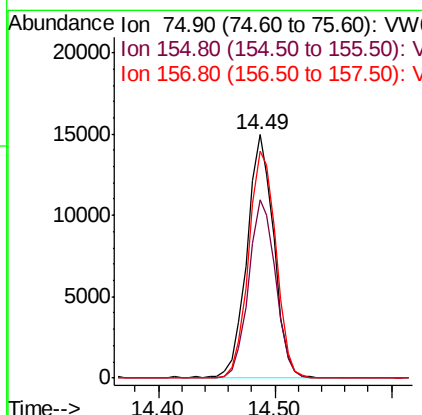
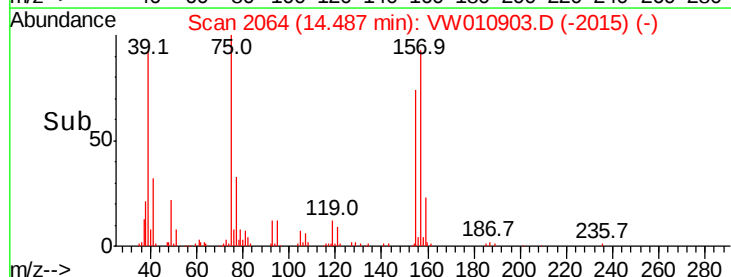
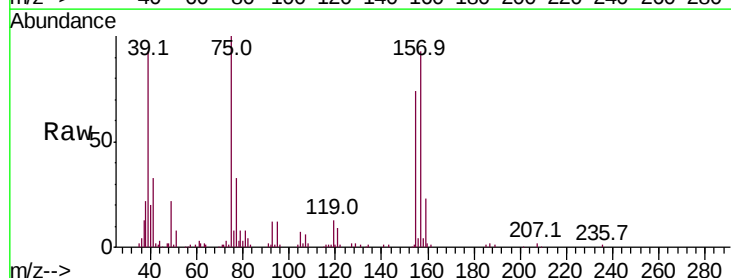
Manual Integrations
 APPROVED

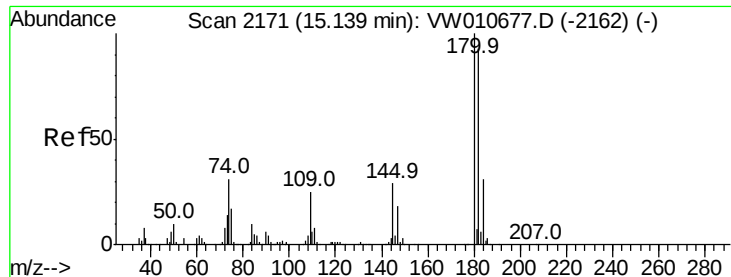
MMDadoda
 6/21/2019 3:20:41 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 65.061 ug/l
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VW010903.D
 Acq: 20 Jun 2019 20:51

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	24119		
155	73.5	38.8	116.4	
157	95.0	48.4	145.0	





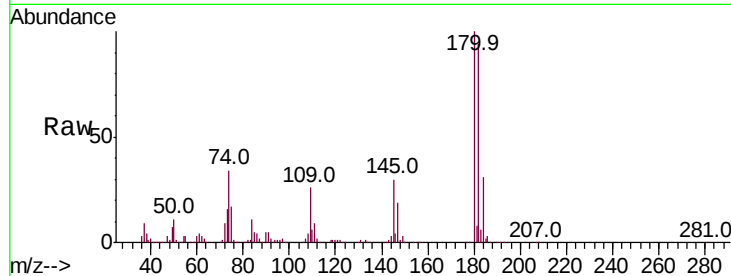
#93
 1,2,4-Trichlorobenzene
 Concen: 61.734 ug/l
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.00 min
 Lab File: VW010903.D
 Acq: 20 Jun 2019 20:51

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	94.5	47.1	141.4	
145	30.3	15.2	45.5	

Manual Integrations
 APPROVED

MMDadoda
 6/21/2019 3:20:41 PM

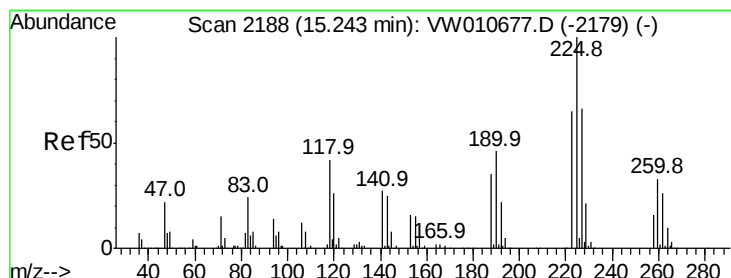
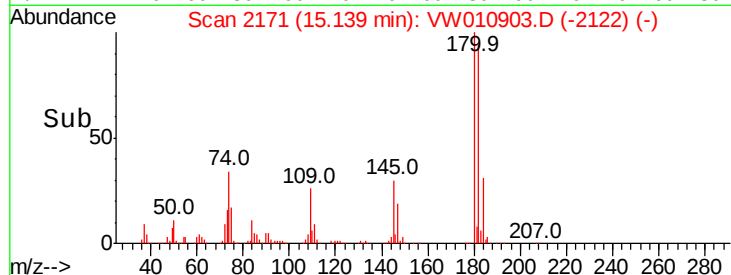
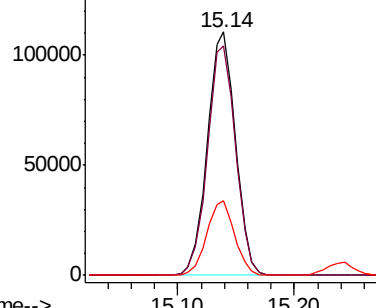


Abundance

Ion 179.80 (179.50 to 180.50): V

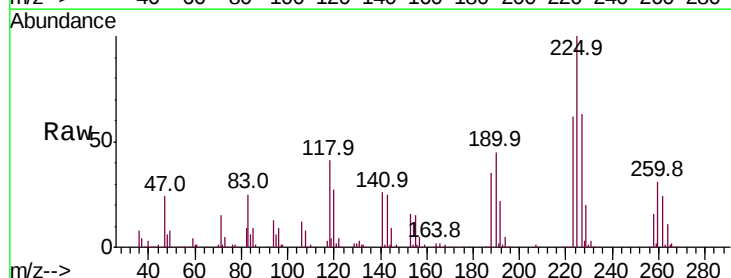
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 59.461 ug/l
 RT: 15.24 min Scan# 2188
 Delta R.T. 0.00 min
 Lab File: VW010903.D
 Acq: 20 Jun 2019 20:51

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	61.9	32.2	96.6	
227	63.9	32.0	96.0	

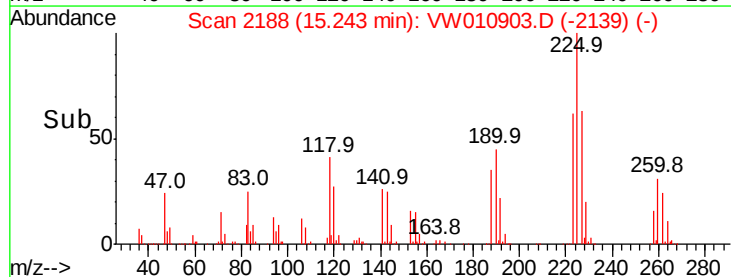
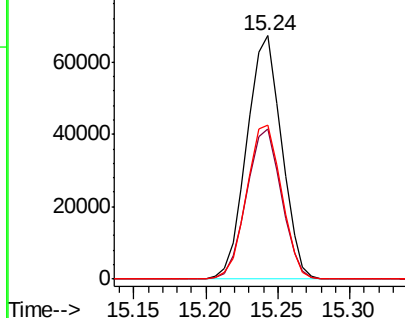


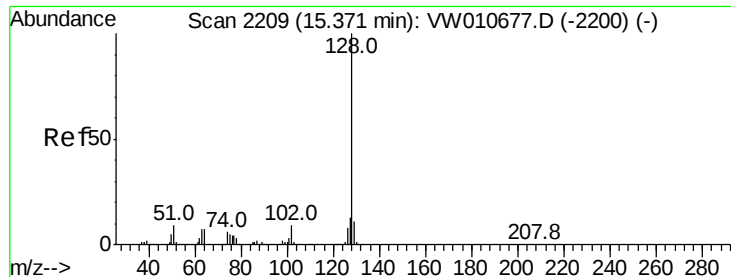
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 64.725 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW010903.D

Acq: 20 Jun 2019 20:51

Instrument :

MSVOA_W

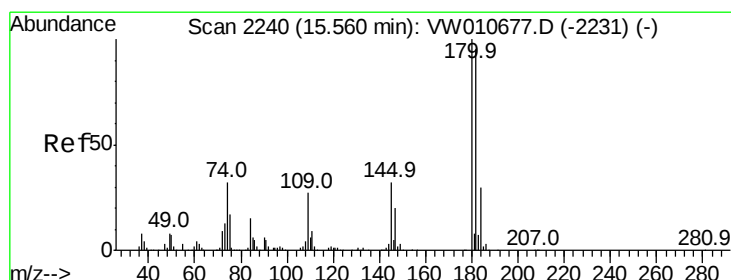
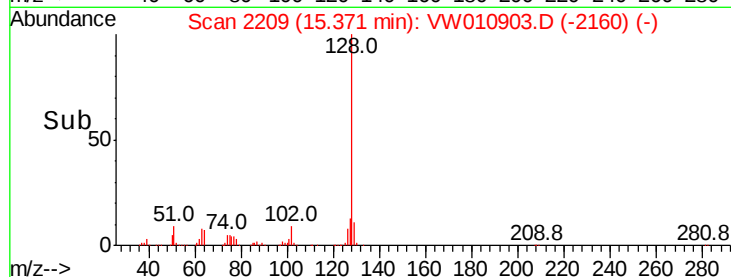
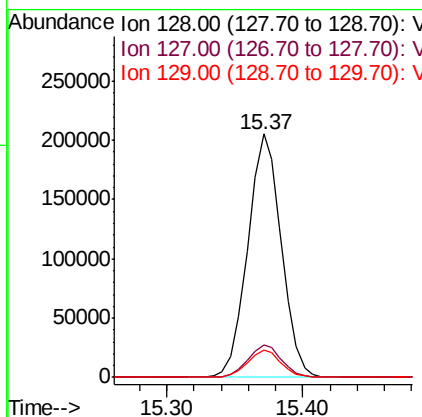
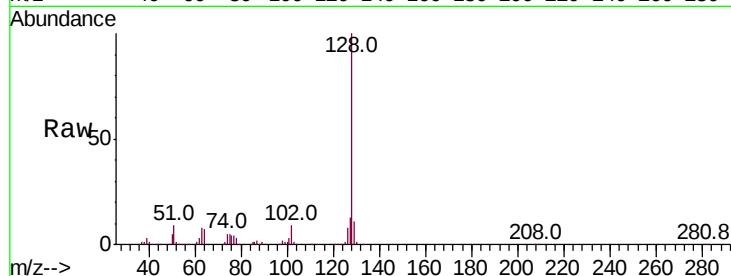
ClientSampleId :

VSTDCCC050EC

Tot Ion:	128	Resp:	354266
Ion Ratio	Lower	Upper	
128	100		
127	13.4	10.6	15.8
129	11.1	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
6/21/2019 3:20:41 PM



#96

1,2,3-Trichlorobenzene

Concen: 64.315 ug/l

RT: 15.56 min Scan# 2240

Delta R.T. 0.00 min

Lab File: VW010903.D

Acq: 20 Jun 2019 20:51

Tgt Ion:	180	Resp:	164774
Ion Ratio	Lower	Upper	
180	100		
182	94.6	47.0	141.0
145	32.0	16.1	48.3

