

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW051219\
 Data File : VW010400.D
 Acq On : 12 May 2019 11:14
 Operator : SY/VA
 Sample : VW0512SBS01
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0512SBS01

Manual Integrations
 APPROVED

MMDadoda
 5/13/2019 12:27:10 PM

Quant Time: May 13 05:42:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W050919S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 10 03:41:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	1276135	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	2052838	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	1839022	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	936365	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	640137	47.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.36%	
35) Dibromofluoromethane	7.88	113	570842	47.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.04%	
50) Toluene-d8	10.32	98	2283414	46.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.36%	
62) 4-Bromofluorobenzene	12.62	95	826130	47.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.96%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	194450	20.111	ug/l	99
3) Chloromethane	2.21	50	256693	19.650	ug/l	96
4) Vinyl Chloride	2.37	62	341907	21.060	ug/l	98
5) Bromomethane	2.76	94	190808	20.381	ug/l	98
6) Chloroethane	2.92	64	198523	21.145	ug/l	96
7) Trichlorofluoromethane	3.24	101	149515	18.397	ug/l	96
8) Diethyl Ether	3.67	74	157309	22.018	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	4.06	101	291221	21.868	ug/l	96
10) Methyl Iodide	4.26	142	401333	21.281	ug/l	95
11) Tert butyl alcohol	5.19	59	73151	76.348	ug/l	99
12) 1,1-Dichloroethene	4.03	96	299714	21.538	ug/l	94
13) Acrolein	3.89	56	97291	76.912	ug/l	96
14) Allyl chloride	4.65	41	461942	22.239	ug/l	92
15) Acrylonitrile	5.37	53	343545	86.752	ug/l	99
16) Acetone	4.12	43	303528	85.819	ug/l	97
17) Carbon Disulfide	4.37	76	850730	20.214	ug/l	98
18) Methyl Acetate	4.67	43	155880	17.794	ug/l	97
19) Methyl tert-butyl Ether	5.42	73	350940	21.185	ug/l	96
20) Methylene Chloride	4.91	84	316500	21.455	ug/l	96
21) trans-1,2-Dichloroethene	5.41	96	327628	21.873	ug/l	99
22) Diisopropyl ether	6.31	45	975408	24.196	ug/l	95
23) Vinyl Acetate	6.25	43	2891013	104.441	ug/l	97
24) 1,1-Dichloroethane	6.21	63	611981	22.548	ug/l	99
25) 2-Butanone	7.17	43	452430	83.618	ug/l	98
26) 2,2-Dichloropropane	7.16	77	301855	22.353	ug/l	98
27) cis-1,2-Dichloroethene	7.17	96	343388	22.292	ug/l	98
28) Bromochloromethane	7.51	49	268036	26.786	ug/l	99
29) Tetrahydrofuran	7.53	42	290102	82.895	ug/l	95
30) Chloroform	7.67	83	586016	23.071	ug/l	97
31) Cyclohexane	7.95	56	596301	21.457	ug/l	97
32) 1,1,1-Trichloroethane	7.87	97	442684	22.500	ug/l	99
36) 1,1-Dichloropropene	8.08	75	489291	21.982	ug/l	99
37) Ethyl Acetate	7.25	43	206345	17.411	ug/l	97
38) Carbon Tetrachloride	8.06	117	416413	21.824	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW051219\
 Data File : VW010400.D
 Acq On : 12 May 2019 11:14
 Operator : SY/VA
 Sample : VW0512SBS01
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0512SBS01

Manual Integrations
 APPROVED

MMDadoda
 5/13/2019 12:27:10 PM

Quant Time: May 13 05:42:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W050919S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 10 03:41:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	580366	21.314	ug/l	97
40) Benzene	8.32	78	1361817	22.340	ug/l	99
41) Methacrylonitrile	7.48	41	114647	17.250	ug/l	94
42) 1,2-Dichloroethane	8.40	62	393149	22.532	ug/l	97
43) Isopropyl Acetate	8.43	43	365690	18.606	ug/l	97
44) Trichloroethene	9.09	130	332286	21.774	ug/l	99
45) 1,2-Dichloropropane	9.37	63	345863	22.826	ug/l	96
46) Dibromomethane	9.46	93	167862	21.444	ug/l	100
47) Bromodichloromethane	9.64	83	426326	22.705	ug/l	99
48) Methyl methacrylate	9.44	41	171557	18.460	ug/l	87
49) 1,4-Dioxane	9.45	88	44791	328.114	ug/l	96
51) 4-Methyl-2-Pentanone	10.21	43	1011213	89.724	ug/l	96
52) Toluene	10.39	92	841795	22.593	ug/l	100
53) t-1,3-Dichloropropene	10.60	75	410502	21.583	ug/l	96
54) cis-1,3-Dichloropropene	10.07	75	504149	22.382	ug/l	91
55) 1,1,2-Trichloroethane	10.79	97	234382	21.081	ug/l	94
56) Ethyl methacrylate	10.65	69	291285	19.840	ug/l	90
57) 1,3-Dichloropropane	10.93	76	436050	21.939	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.93	63	769650	109.489	ug/l	99
59) 2-Hexanone	10.97	43	700401	87.897	ug/l	94
60) Dibromochloromethane	11.13	129	257240	21.502	ug/l	98
61) 1,2-Dibromoethane	11.24	107	220279	20.639	ug/l	99
64) Tetrachloroethene	10.86	164	280408	21.816	ug/l	95
65) Chlorobenzene	11.66	112	863495	22.683	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.73	131	290004	22.539	ug/l	97
67) Ethyl Benzene	11.73	91	1600578	22.855	ug/l	99
68) m/p-Xylenes	11.84	106	1207573	46.410	ug/l	100
69) o-Xylene	12.17	106	535438	22.748	ug/l	100
70) Styrene	12.18	104	960276	23.414	ug/l	98
71) Bromoform	12.35	173	144806	19.688	ug/l #	99
73) Isopropylbenzene	12.46	105	1532549	22.454	ug/l	100
74) N-amyl acetate	12.27	43	340633	19.318	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.71	83	281347	18.709	ug/l	99
76) 1,2,3-Trichloropropane	12.77	75	204243m	18.708	ug/l	
77) Bromobenzene	12.75	156	339387	22.023	ug/l	99
78) n-propylbenzene	12.80	91	1927298	22.863	ug/l	99
79) 2-Chlorotoluene	12.90	91	1084879	22.599	ug/l	99
80) 1,3,5-Trimethylbenzene	12.94	105	1329781	23.111	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.51	75	83937	17.363	ug/l	96
82) 4-Chlorotoluene	12.99	91	1153356	22.930	ug/l	99
83) tert-Butylbenzene	13.21	119	1109709	23.122	ug/l	97
84) 1,2,4-Trimethylbenzene	13.26	105	1337692	23.395	ug/l	99
85) sec-Butylbenzene	13.39	105	1594831	22.510	ug/l	100
86) p-Isopropyltoluene	13.50	119	1443967	22.955	ug/l	99
87) 1,3-Dichlorobenzene	13.50	146	694664	22.574	ug/l	100
88) 1,4-Dichlorobenzene	13.58	146	688203	22.535	ug/l	99
89) n-Butylbenzene	13.83	91	1425865	22.606	ug/l	98
90) Hexachloroethane	14.10	117	248478	21.297	ug/l	93
91) 1,2-Dichlorobenzene	13.87	146	611415	22.445	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.49	75	44005	16.250	ug/l	94

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW051219\
Data File : VW010400.D
Acq On : 12 May 2019 11:14
Operator : SY/VA
Sample : VW0512SBS01
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0512SBS01

Manual Integrations
APPROVED

MMDadoda
5/13/2019 12:27:10 PM

Quant Time: May 13 05:42:40 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W050919S.M
Quant Title : SW846 8260
QLast Update : Fri May 10 03:41:21 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.14	180	423999	22.806	ug/l	100
94) Hexachlorobutadiene	15.24	225	269385	22.602	ug/l	98
95) Naphthalene	15.38	128	708768	19.082	ug/l	100
96) 1,2,3-Trichlorobenzene	15.56	180	380243	22.640	ug/l	99

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

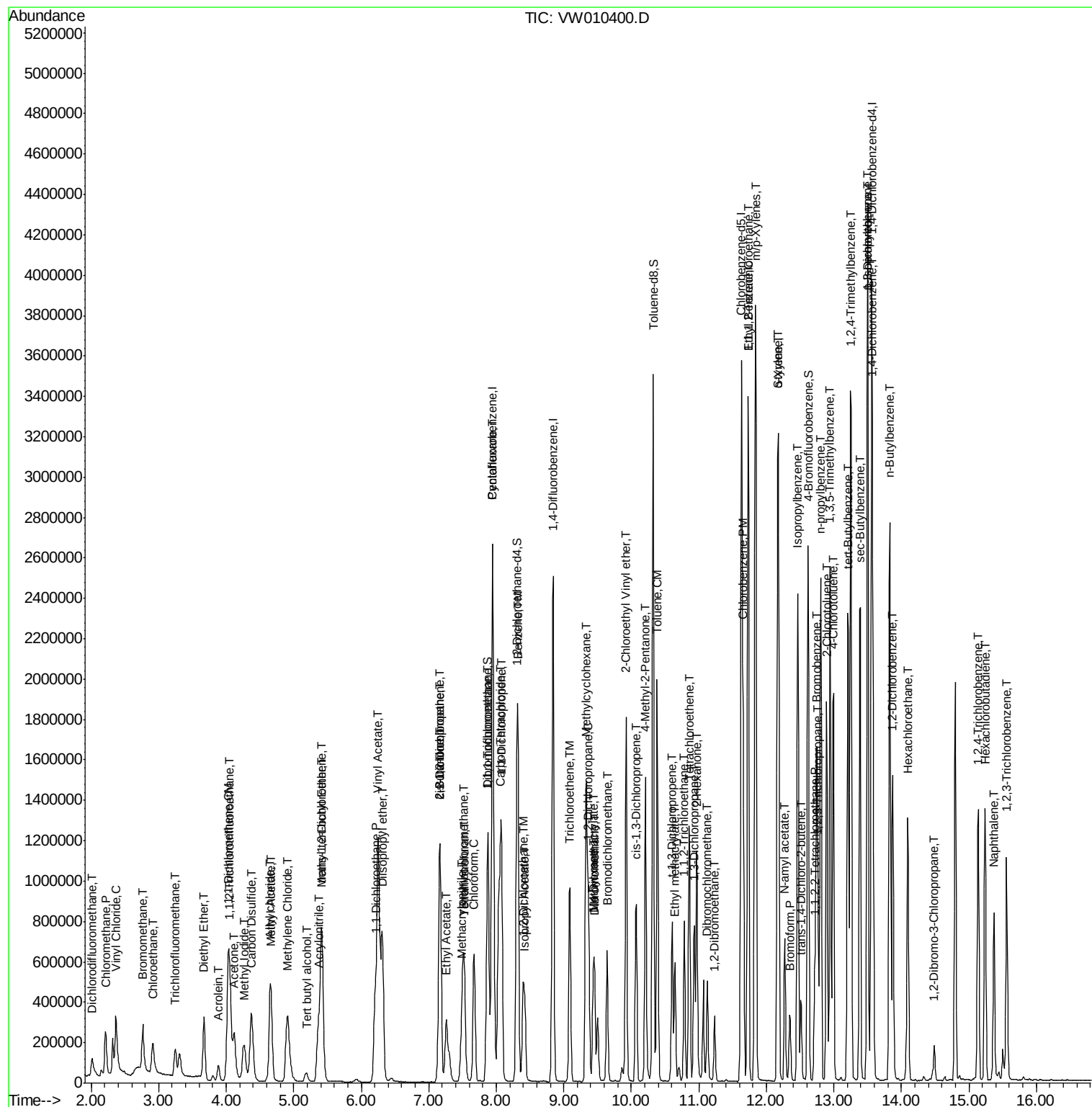
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW051219\
 Data File : VW010400.D
 Acq On : 12 May 2019 11:14
 Operator : SY/VA
 Sample : VW0512SBS01
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 4 Sample Multiplier: 1

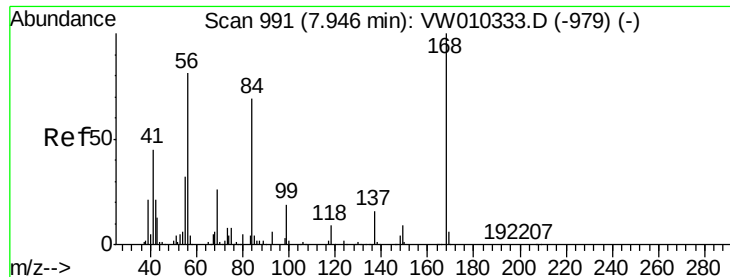
Instrument :
 MSVOA_W
 Client Sample Id :
 VW0512SBS01

Manual Integrations
 APPROVED

MMDadoda
 5/13/2019 12:27:10 PM

Quant Time: May 13 05:42:40 2019
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W050919S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 10 03:41:21 2019
 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

Instrument :

MSVOA_W

ClientSampleId :

VW0512SBS01

Tot Ion:168 Resp: 1276135

Ion Ratio Lower Upper

168 100

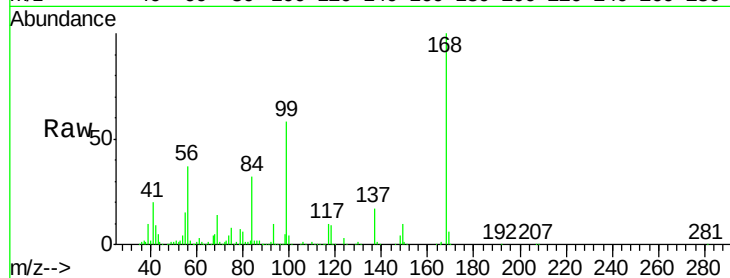
99 58.0 48.4 72.6

Manual Integrations

APPROVED

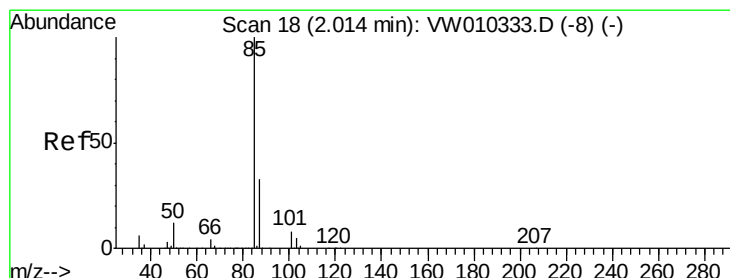
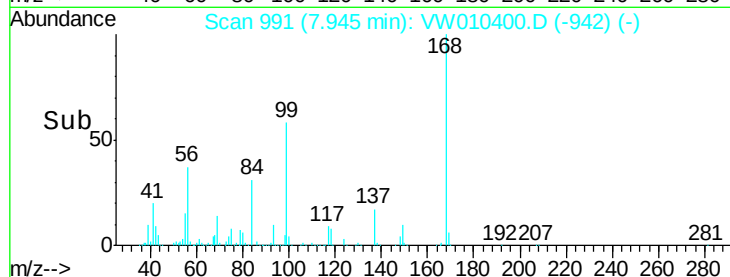
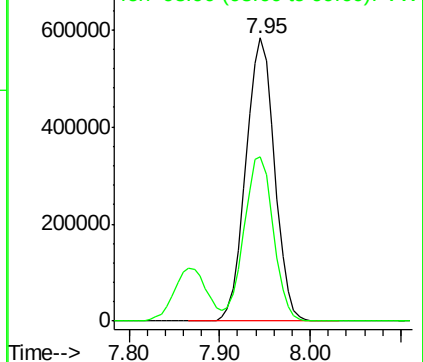
MMDadoda

5/13/2019 12:27:10 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: 20.111 ug/l

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW010400.D

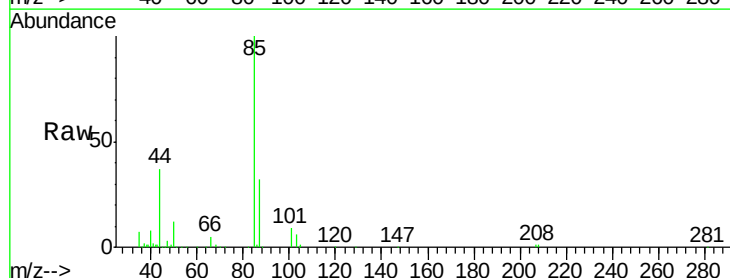
Acq: 12 May 2019 11:14

Tgt Ion: 85 Resp: 194450

Ion Ratio Lower Upper

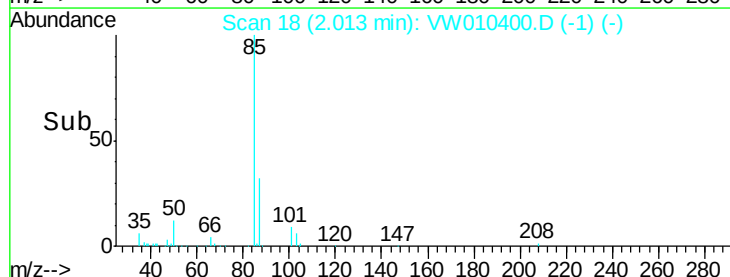
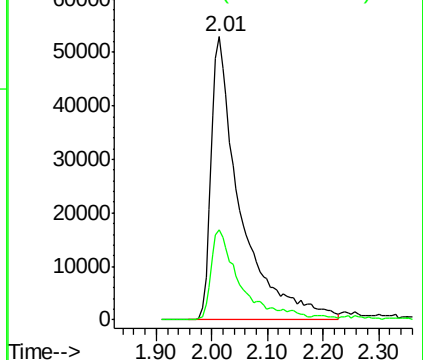
85 100

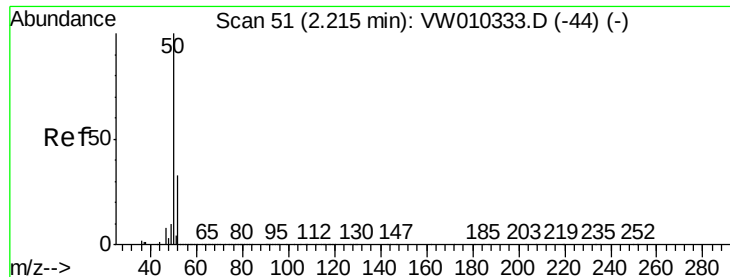
87 31.9 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#3

Chloromethane

Concen: 19.650 ug/l

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

Instrument :

MSVOA_W

ClientSampleId :

VW0512SBS01

Tot Ion: 50 Resp: 256693

Ion Ratio Lower Upper

50 100

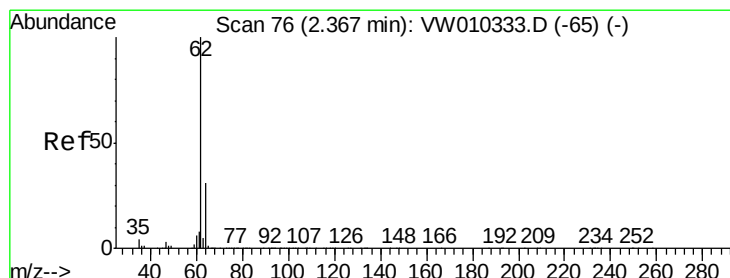
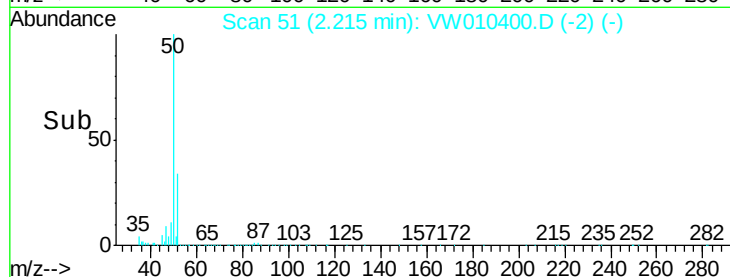
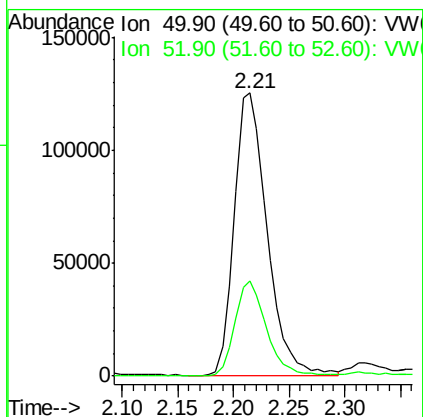
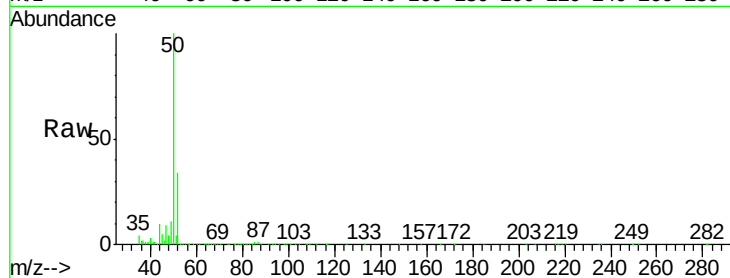
52 33.7 25.0 37.6

Manual Integrations

APPROVED

MMDadoda

5/13/2019 12:27:10 PM



#4

Vinyl Chloride

Concen: 21.060 ug/l

RT: 2.37 min Scan# 76

Delta R.T. -0.00 min

Lab File: VW010400.D

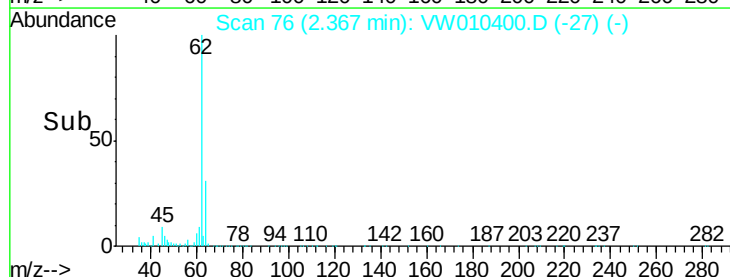
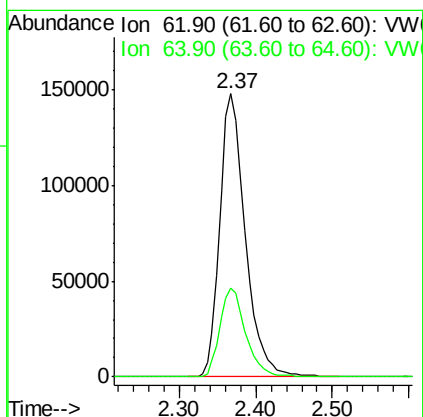
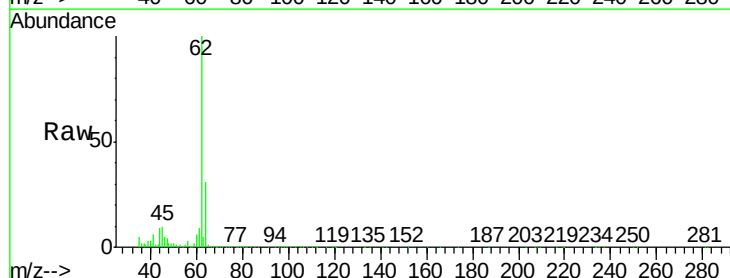
Acq: 12 May 2019 11:14

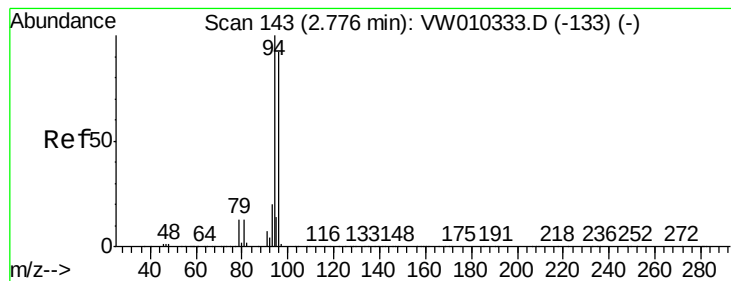
Tgt Ion: 62 Resp: 341907

Ion Ratio Lower Upper

62 100

64 31.2 25.9 38.9





#5

Bromomethane

Concen: 20.381 ug/l

RT: 2.76 min Scan# 141

Delta R.T. -0.01 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

Instrument :

MSVOA_W

ClientSampleId :

VW0512SBS01

Tot Ion: 94 Resp: 190808

Ion Ratio Lower Upper

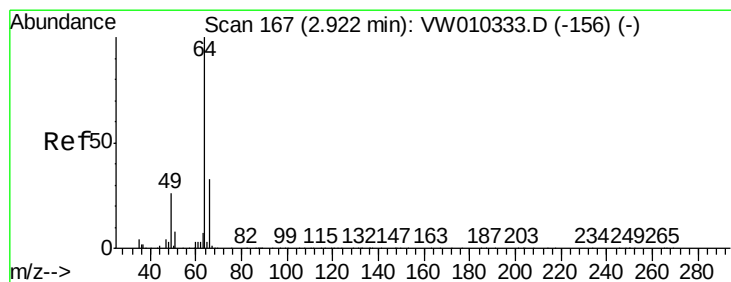
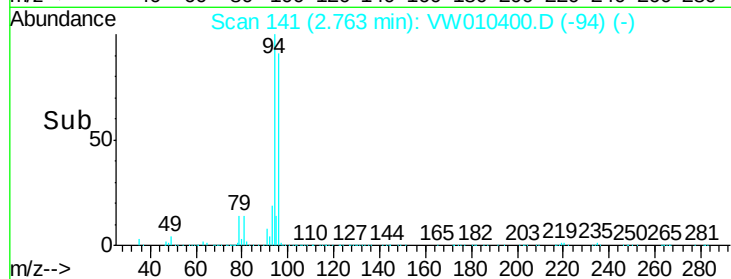
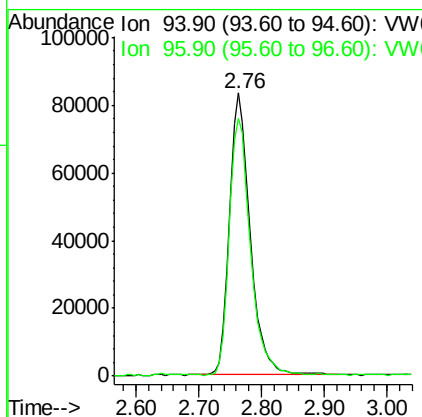
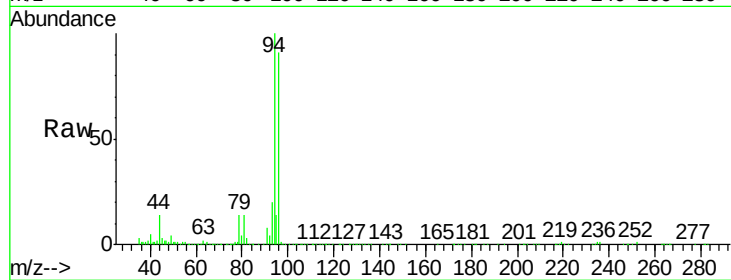
94 100

96 90.5 74.2 111.2

Manual Integrations
APPROVED

MMDadoda

5/13/2019 12:27:10 PM



#6

Chloroethane

Concen: 21.145 ug/l

RT: 2.92 min Scan# 166

Delta R.T. -0.01 min

Lab File: VW010400.D

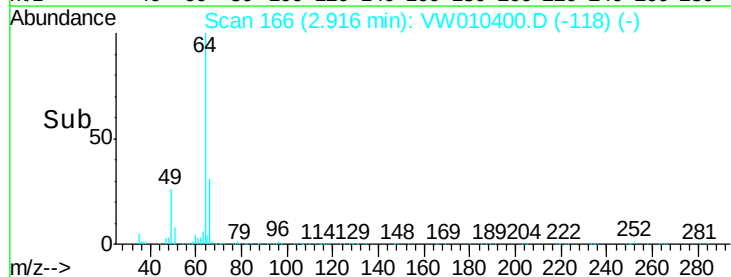
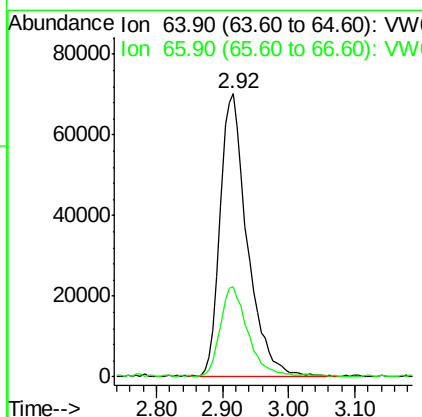
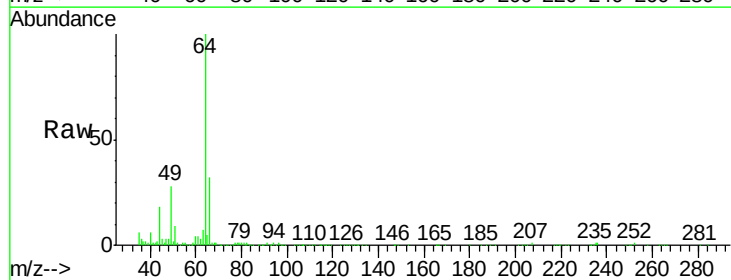
Acq: 12 May 2019 11:14

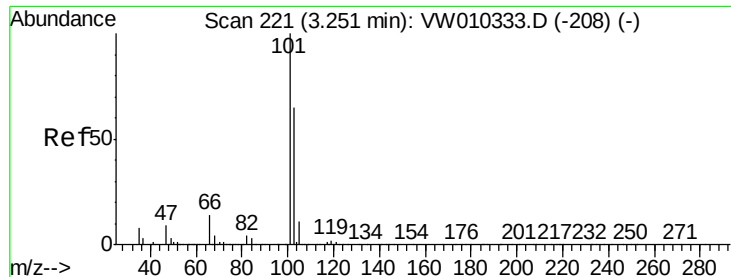
Tgt Ion: 64 Resp: 198523

Ion Ratio Lower Upper

64 100

66 31.6 23.4 35.0





#7

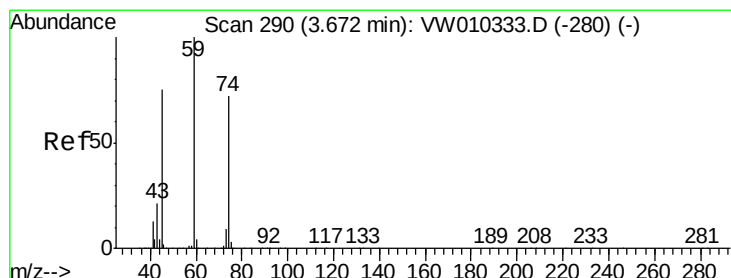
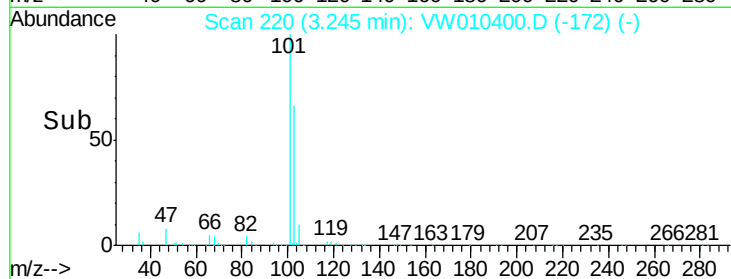
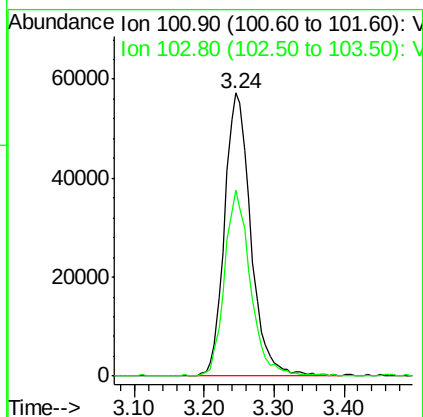
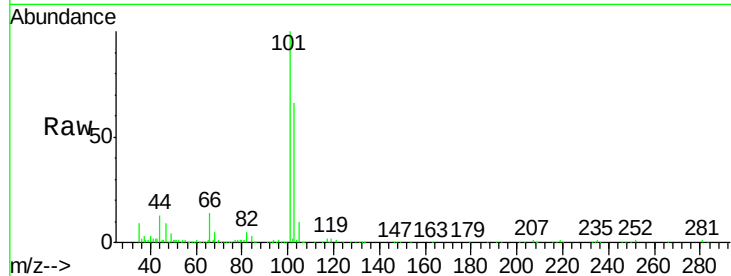
Trichlorofluoromethane
Concen: 18.397 ug/l
RT: 3.24 min Scan# 220
Delta R.T. -0.01 min
Lab File: VW010400.D
Acq: 12 May 2019 11:14

Instrument :
MSVOA_W
ClientSampleId :
VW0512SBS01

Tot Ion	Ratio	Resp	Lower	Upper
101	100	149515		
103	65.6	49.8	74.6	

Manual Integrations
APPROVED

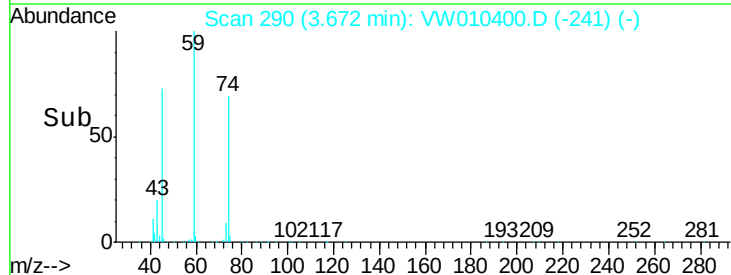
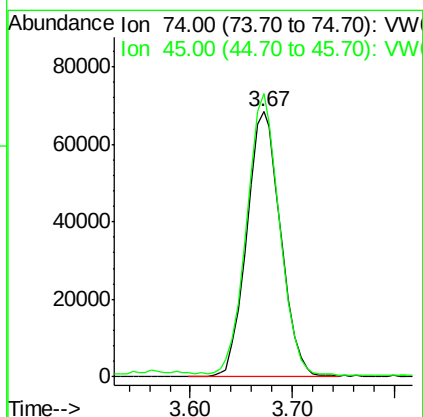
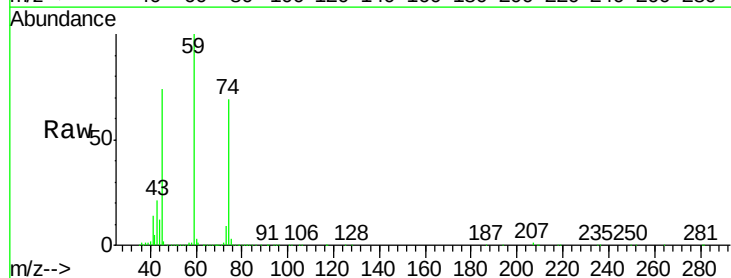
MMDadoda
5/13/2019 12:27:10 PM

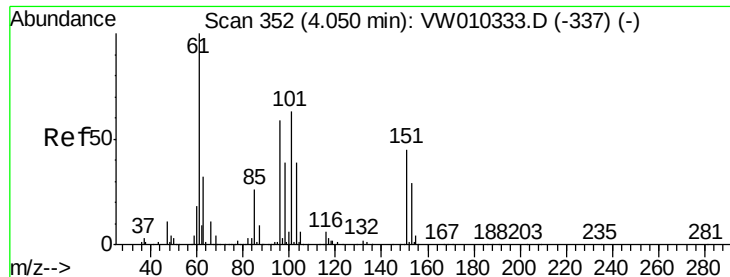


#8

Diethyl Ether
Concen: 22.018 ug/l
RT: 3.67 min Scan# 290
Delta R.T. -0.00 min
Lab File: VW010400.D
Acq: 12 May 2019 11:14

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	157309		
45	104.4	56.0	168.0	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.868 ug/l

RT: 4.06 min Scan# 353

Delta R.T. 0.01 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

Instrument :

MSVOA_W

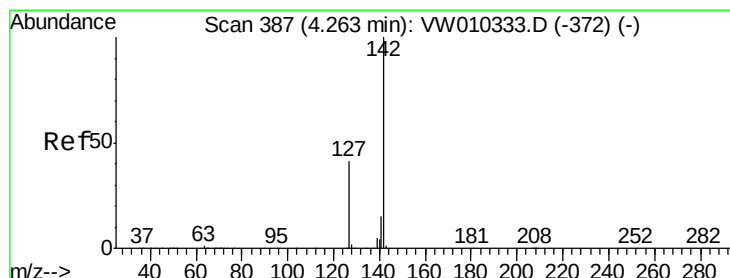
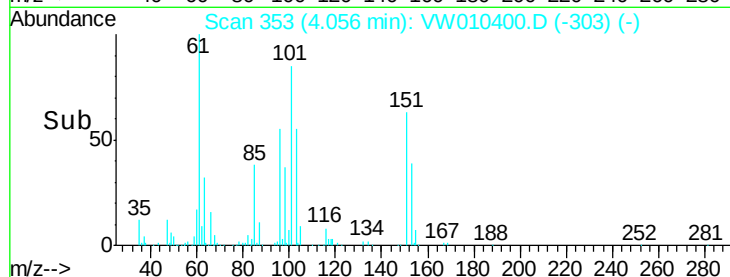
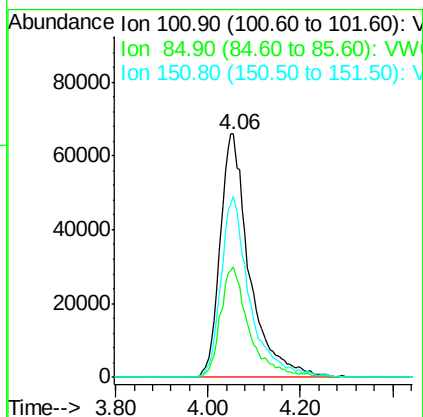
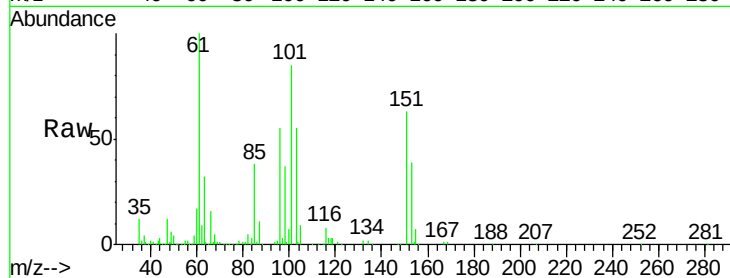
ClientSampleId :

VW0512SBS01

Tot Ion:	101	Resp:	291221
Ion Ratio	Lower	Upper	
101	100		
85	43.5	36.3	54.5
151	71.3	60.2	90.2

Manual Integrations
APPROVED

MMDadoda
5/13/2019 12:27:10 PM



#10

Methyl Iodide

Concen: 21.281 ug/l

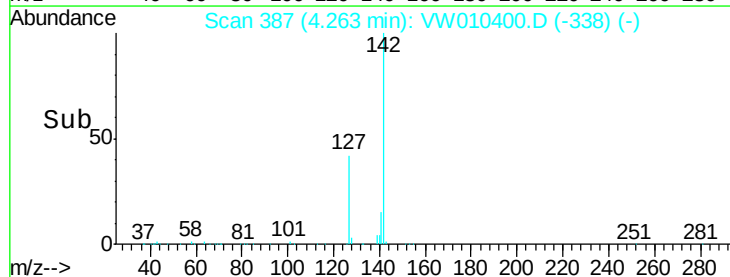
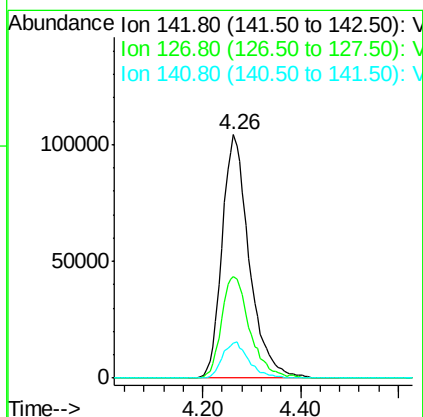
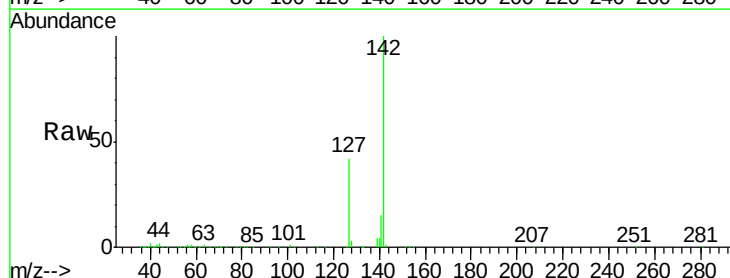
RT: 4.26 min Scan# 387

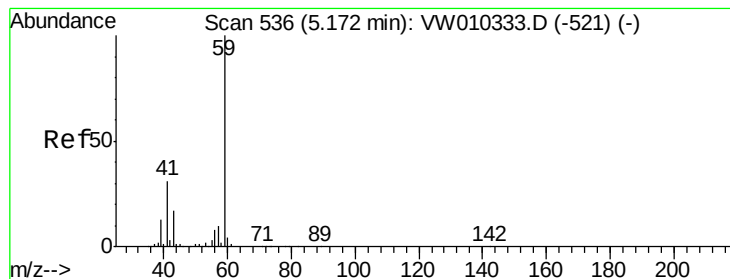
Delta R.T. -0.00 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

Tgt Ion:	142	Resp:	401333
Ion Ratio	Lower	Upper	
142	100		
127	43.6	38.1	57.1
141	14.6	12.2	18.2





#11

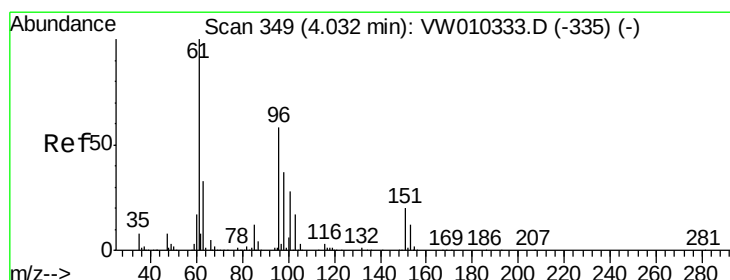
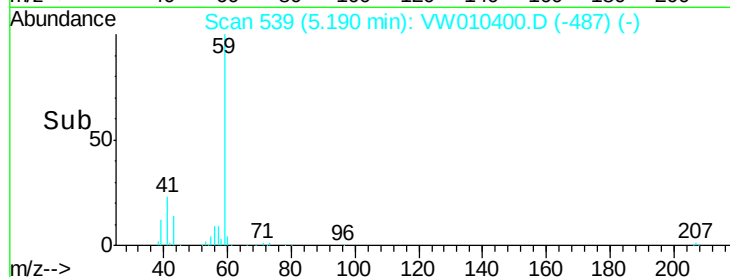
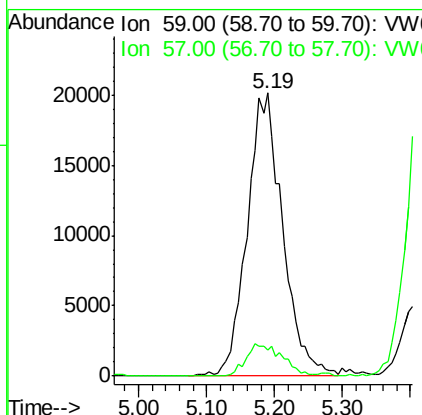
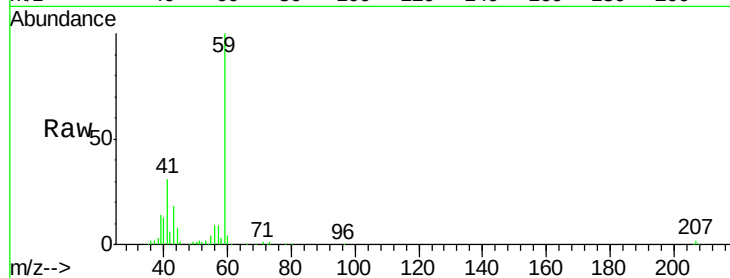
Tert butyl alcohol
Concen: 76.348 ug/l
RT: 5.19 min Scan# 539
Delta R.T. 0.02 min
Lab File: VW010400.D
Acq: 12 May 2019 11:14

Instrument :
MSVOA_W
ClientSampleId :
VW0512SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.6	9.0	13.4

Manual Integrations
APPROVED

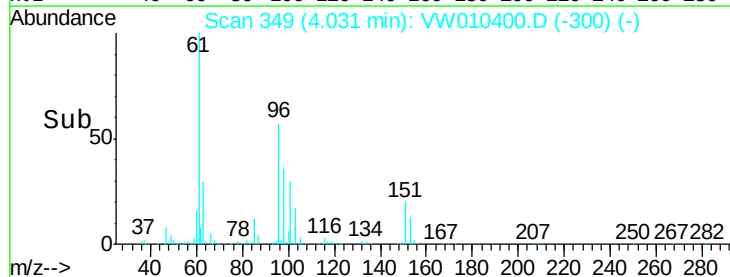
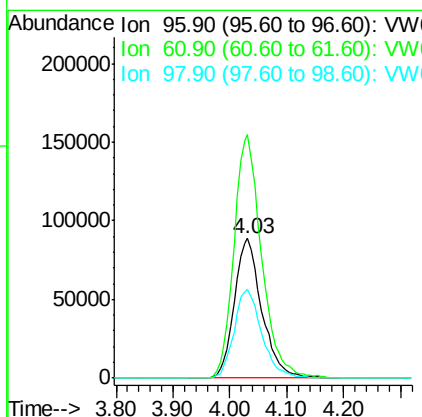
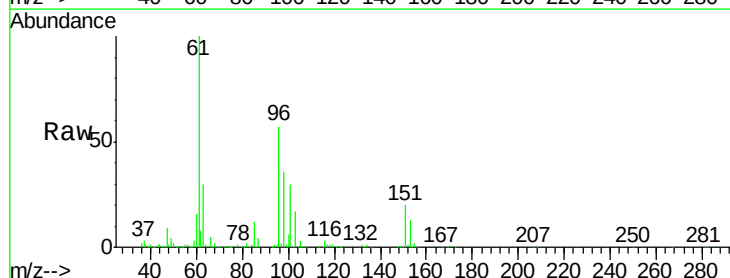
MMDadoda
5/13/2019 12:27:10 PM

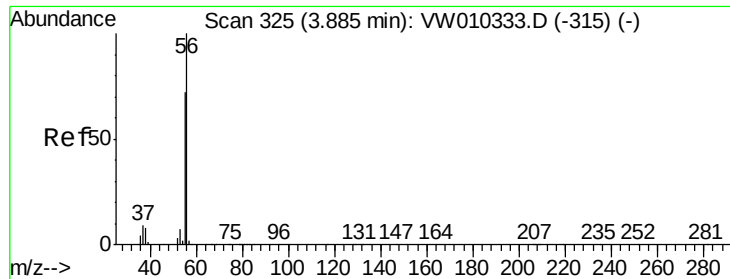


#12

1,1-Dichloroethene
Concen: 21.538 ug/l
RT: 4.03 min Scan# 349
Delta R.T. -0.00 min
Lab File: VW010400.D
Acq: 12 May 2019 11:14

Tgt Ion	Ratio	Lower	Upper
96	100		
61	174.2	147.4	221.2
98	63.4	49.7	74.5





#13

Acrolein

Concen: 76.912 ug/l

RT: 3.89 min Scan# 325

Delta R.T. -0.00 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

Instrument :

MSVOA_W

ClientSampleId :

VW0512SBS01

Tot Ion: 56 Resp: 97291

Ion Ratio Lower Upper

56 100

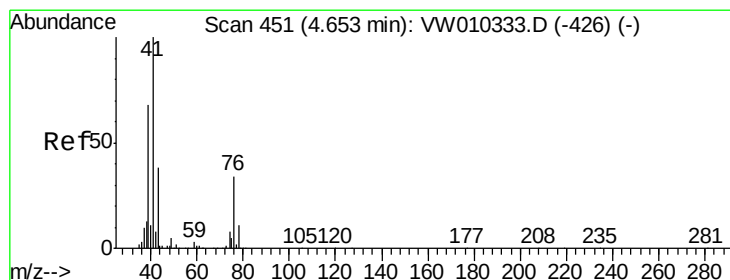
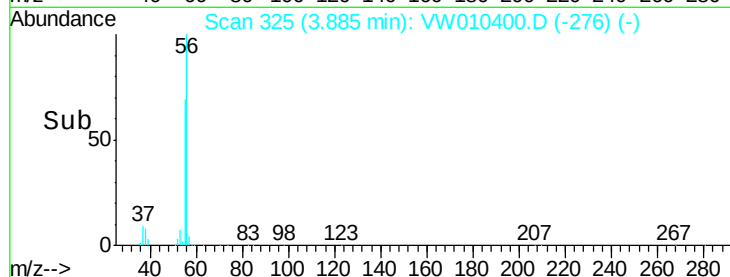
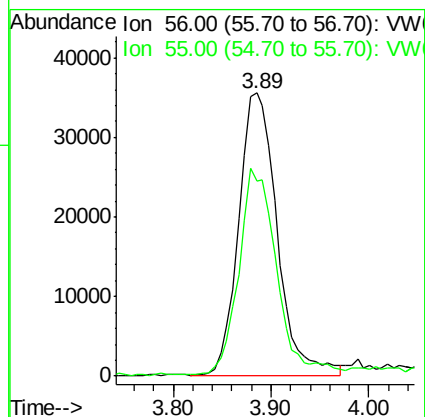
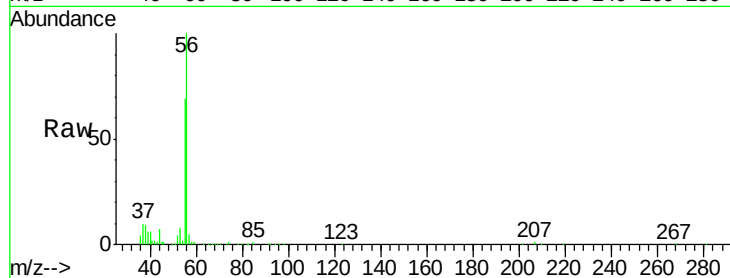
55 71.2 54.2 81.2

Manual Integrations

APPROVED

MMDadoda

5/13/2019 12:27:10 PM



#14

Allyl chloride

Concen: 22.239 ug/l

RT: 4.65 min Scan# 451

Delta R.T. -0.00 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

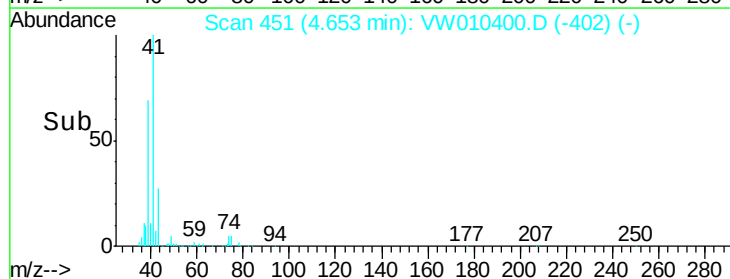
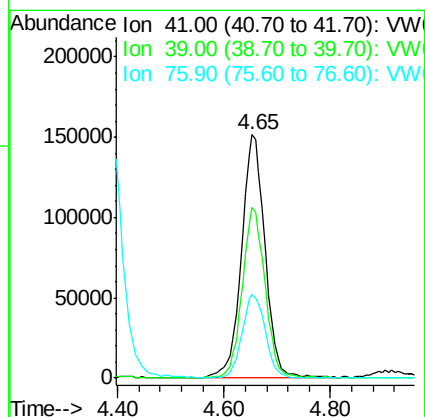
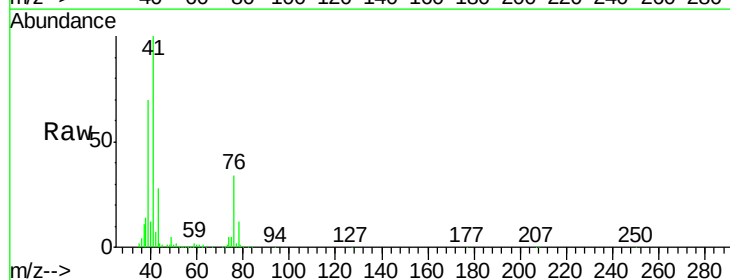
Tgt Ion: 41 Resp: 461942

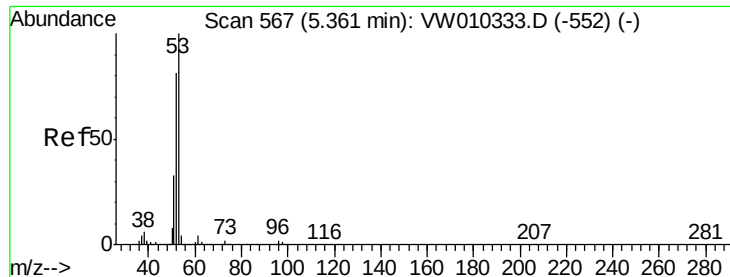
Ion Ratio Lower Upper

41 100

39 67.6 60.2 90.4

76 34.0 25.0 37.6





#15

Acrylonitrile

Concen: 86.752 ug/l

RT: 5.37 min Scan# 568

Delta R.T. 0.01 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

Instrument :

MSVOA_W

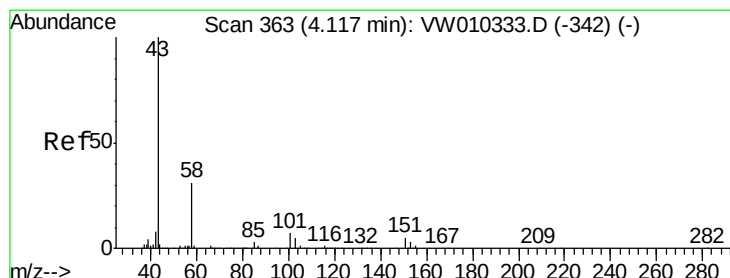
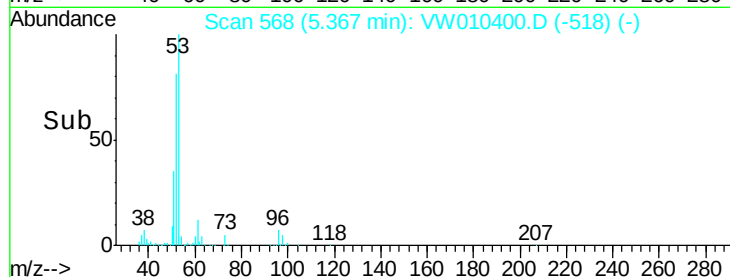
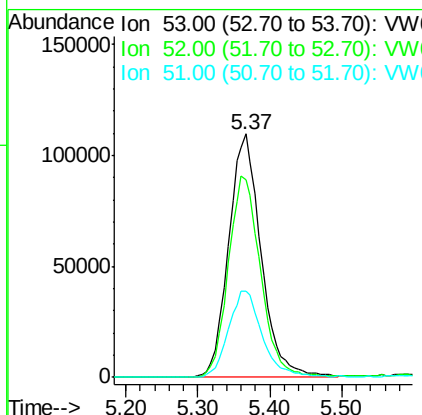
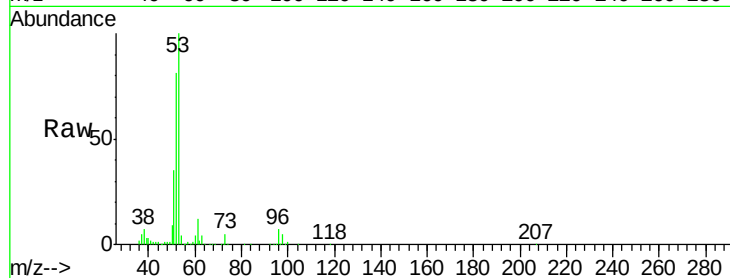
ClientSampleId :

VW0512SBS01

Tot Ion:	53	Resp:	343545
Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.6	100.0
51	37.2	30.3	45.5

Manual Integrations
APPROVED

MMDadoda
5/13/2019 12:27:10 PM



#16

Acetone

Concen: 85.819 ug/l

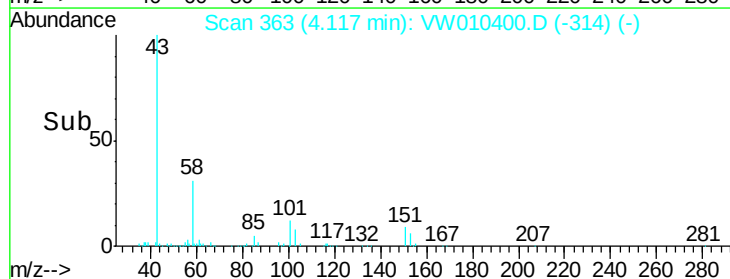
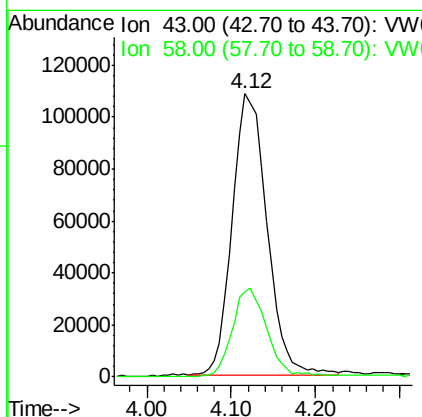
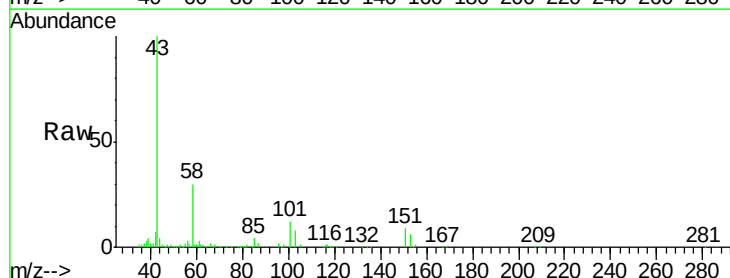
RT: 4.12 min Scan# 363

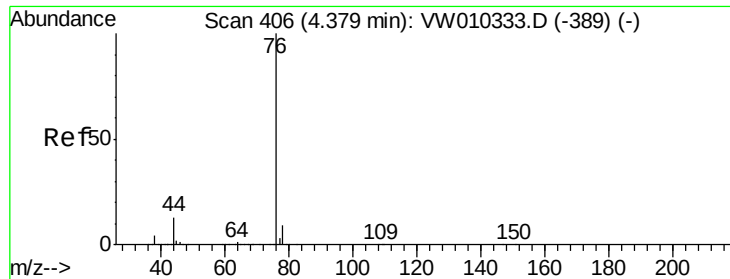
Delta R.T. -0.00 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

Tgt Ion:	43	Resp:	303528
Ion	Ratio	Lower	Upper
43	100		
58	29.9	22.7	34.1





#17

Carbon Disulfide

Concen: 20.214 ug/l

RT: 4.37 min Scan# 405

Delta R.T. -0.01 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

Instrument :

MSVOA_W

ClientSampleId :

VW0512SBS01

Tot Ion: 76 Resp: 850730

Ion Ratio Lower Upper

76 100

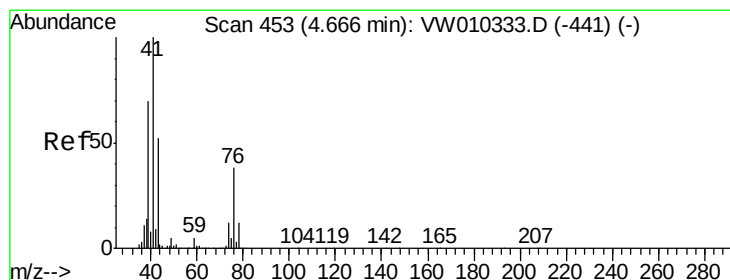
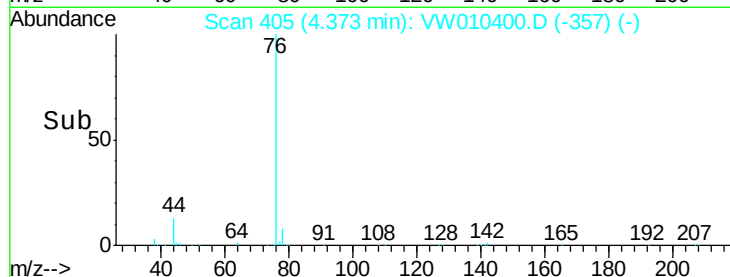
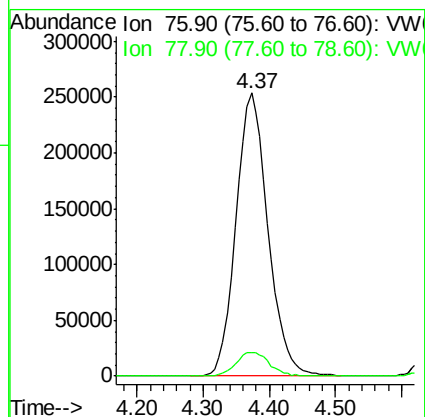
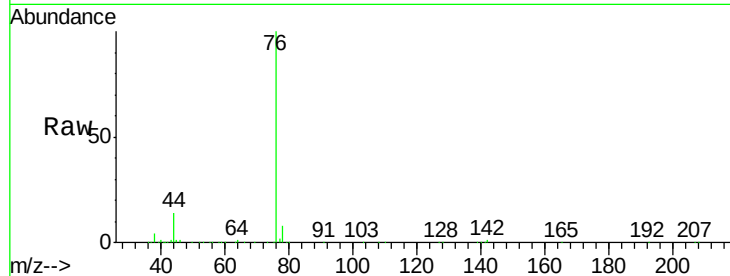
78 8.4 7.4 11.2

Manual Integrations

APPROVED

MMDadoda

5/13/2019 12:27:10 PM



#18

Methyl Acetate

Concen: 17.794 ug/l

RT: 4.67 min Scan# 454

Delta R.T. 0.01 min

Lab File: VW010400.D

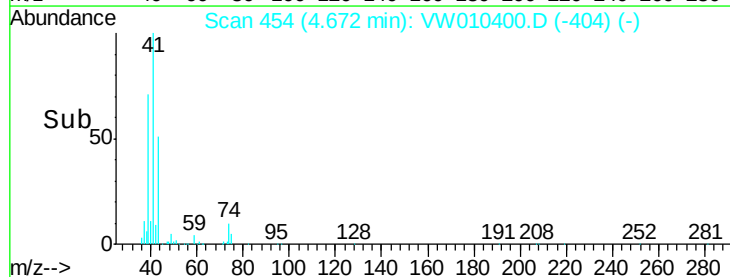
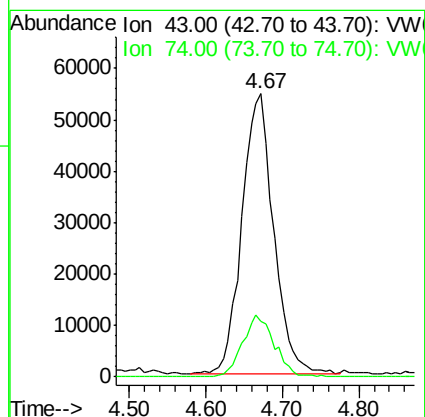
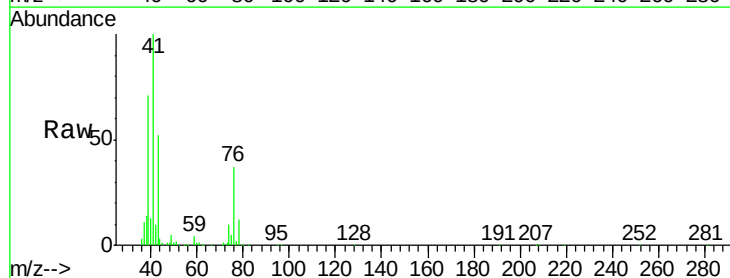
Acq: 12 May 2019 11:14

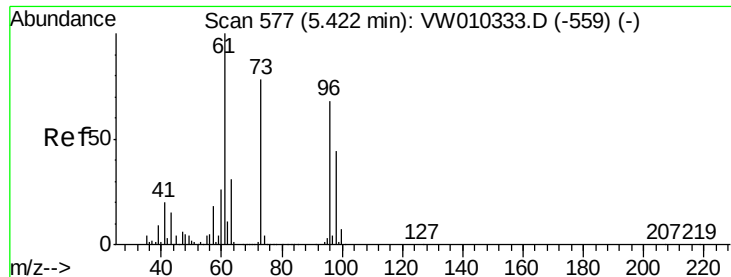
Tgt Ion: 43 Resp: 155880

Ion Ratio Lower Upper

43 100

74 22.4 16.8 25.2





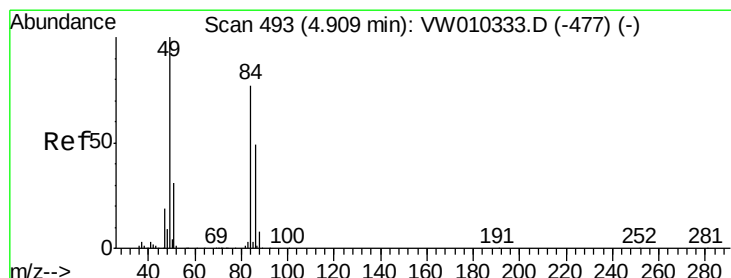
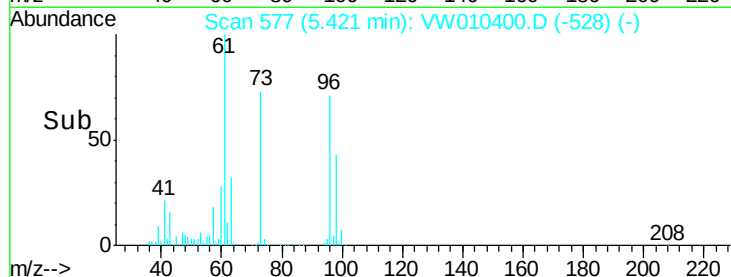
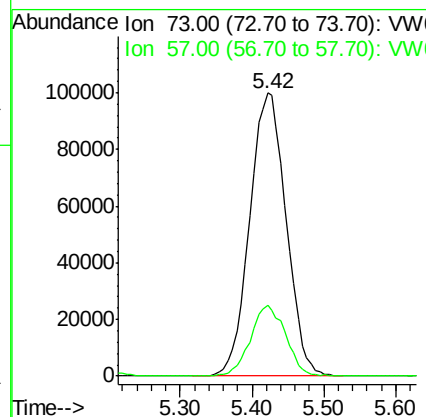
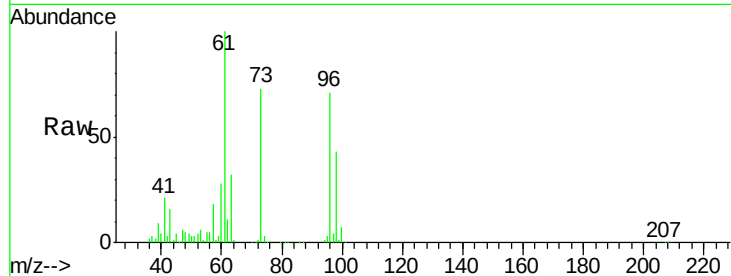
#19
Methyl tert-butyl Ether
Concen: 21.185 ug/l
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW010400.D
Acq: 12 May 2019 11:14

Instrument :
MSVOA_W
ClientSampleId :
VW0512SBS01

Tot Ion: 73 Resp: 350940
Ion Ratio Lower Upper
73 100
57 25.1 18.5 27.7

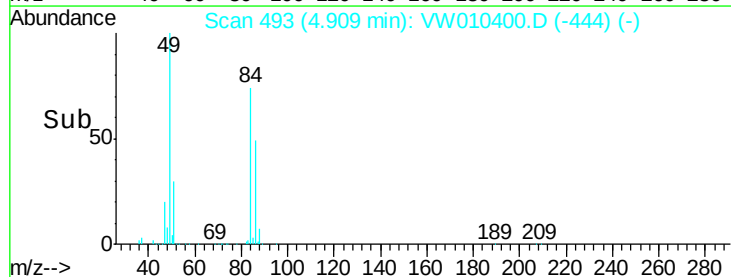
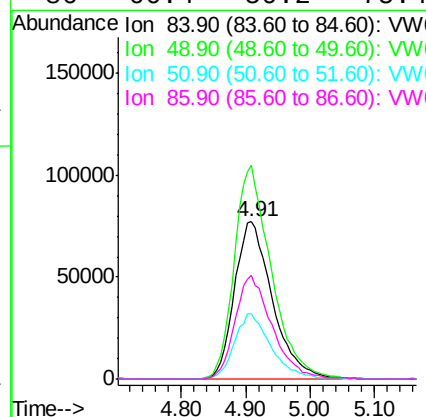
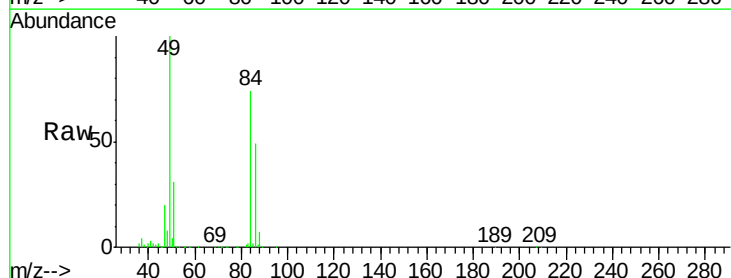
Manual Integrations
APPROVED

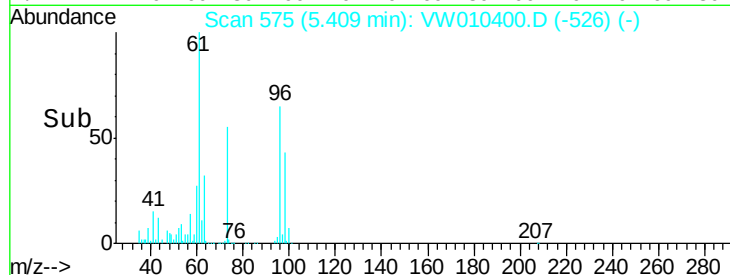
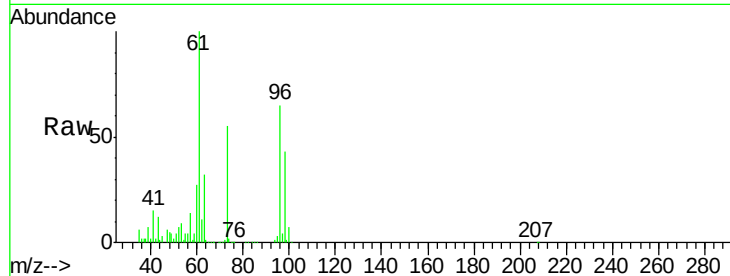
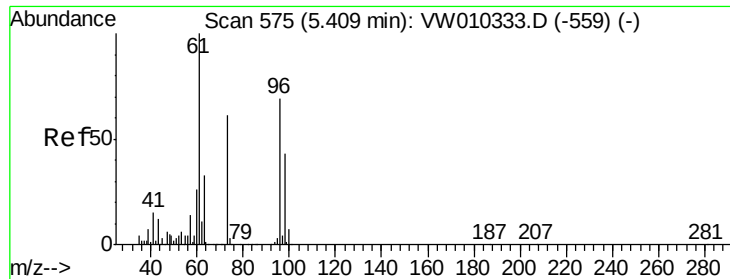
MMDadoda
5/13/2019 12:27:10 PM



#20
Methylene Chloride
Concen: 21.455 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.00 min
Lab File: VW010400.D
Acq: 12 May 2019 11:14

Tgt Ion: 84 Resp: 316500
Ion Ratio Lower Upper
84 100
49 135.9 112.3 168.5
51 41.5 33.9 50.9
86 66.4 50.2 75.4





#21

trans-1,2-Dichloroethene

Concen: 21.873 ug/l

RT: 5.41 min Scan# 575

Delta R.T. -0.00 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

Tot Ion:	96	Resp:	327628
Ion Ratio	Lower	Upper	
96	100		
61	152.7	122.3	183.5
98	65.8	50.5	75.7

Instrument :

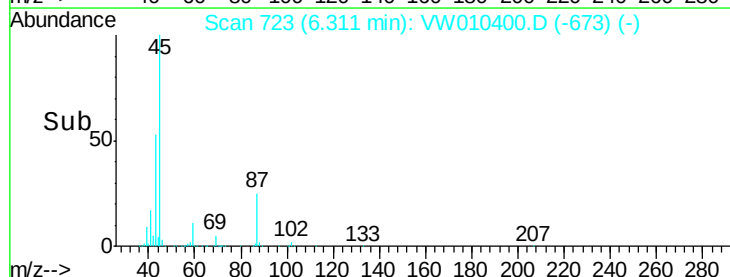
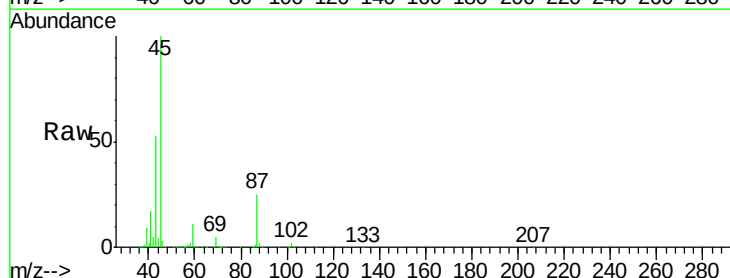
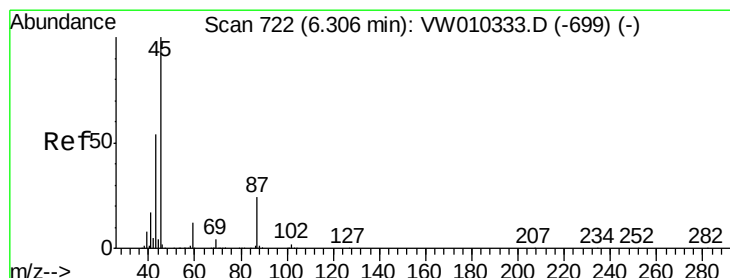
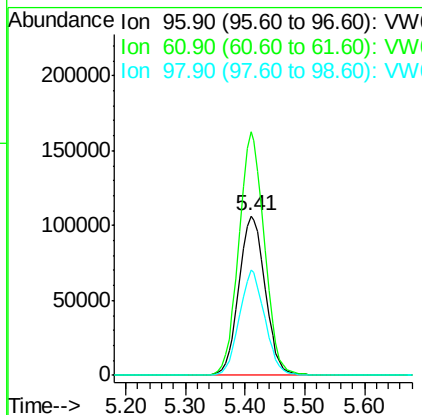
MSVOA_W

ClientSampled :

VW0512SBS01

Manual Integrations
APPROVED

MMDadoda
5/13/2019 12:27:10 PM



#22

Diisopropyl ether

Concen: 24.196 ug/l

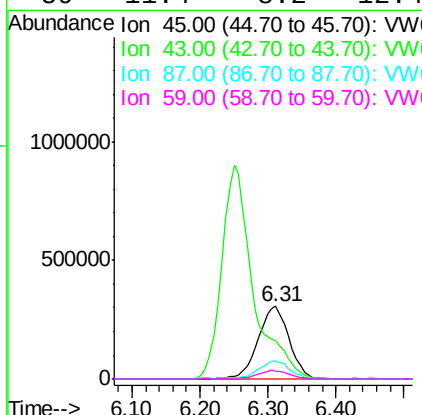
RT: 6.31 min Scan# 723

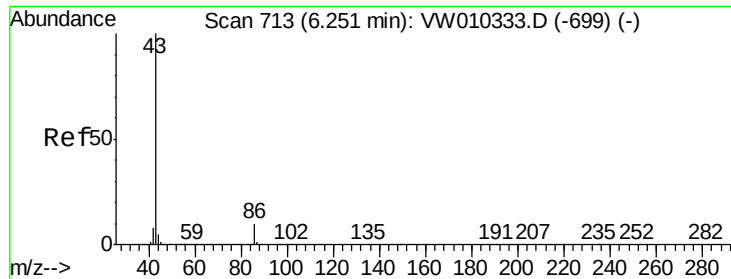
Delta R.T. 0.01 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

Tgt Ion:	45	Resp:	975408
Ion Ratio	Lower	Upper	
45	100		
43	53.1	46.1	69.1
87	25.1	18.3	27.5
59	11.4	8.2	12.4





#23

Vinyl Acetate

Concen: 104.441 ug/l

RT: 6.25 min Scan# 713

Delta R.T. -0.00 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

Instrument :

MSVOA_W

ClientSampleId :

VW0512SBS01

Tot Ion: 43 Resp: 2891013

Ion Ratio Lower Upper

43 100

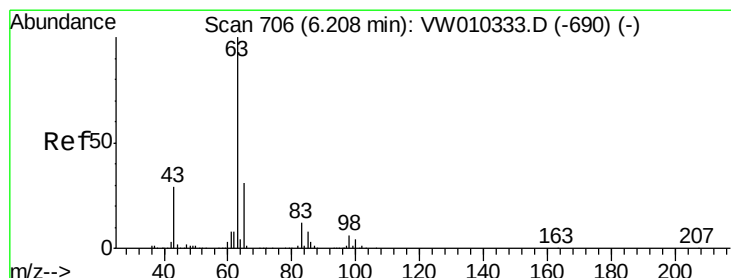
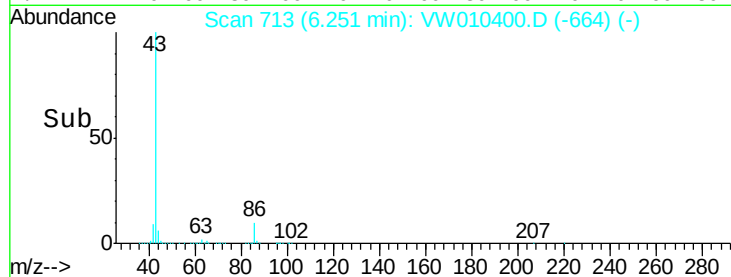
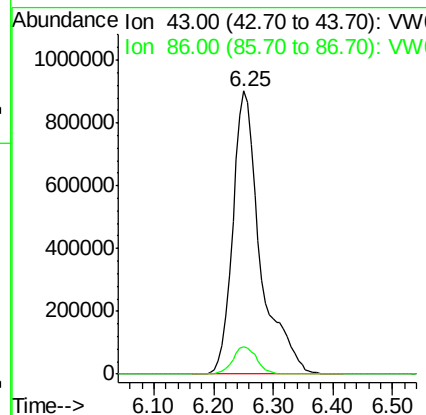
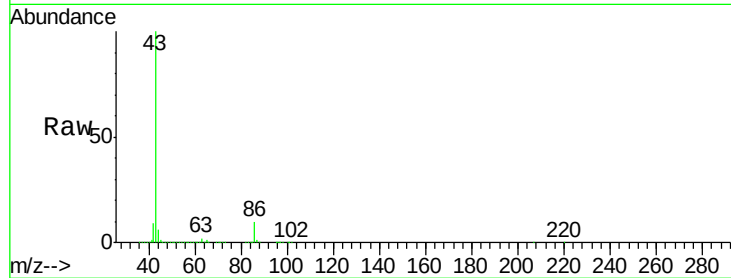
86 9.8 7.0 10.6

Manual Integrations

APPROVED

MMDadoda

5/13/2019 12:27:10 PM



#24

1,1-Dichloroethane

Concen: 22.548 ug/l

RT: 6.21 min Scan# 706

Delta R.T. -0.00 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

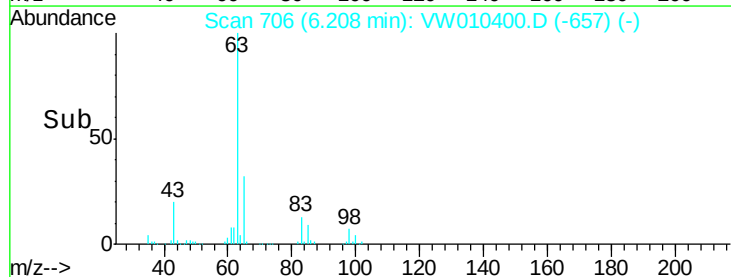
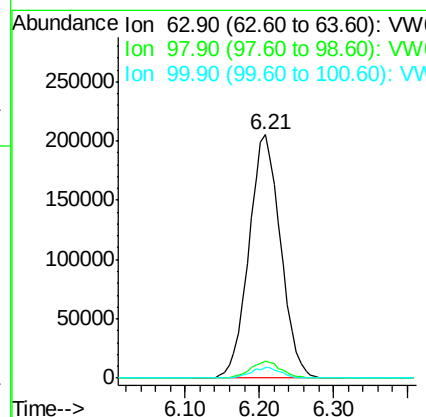
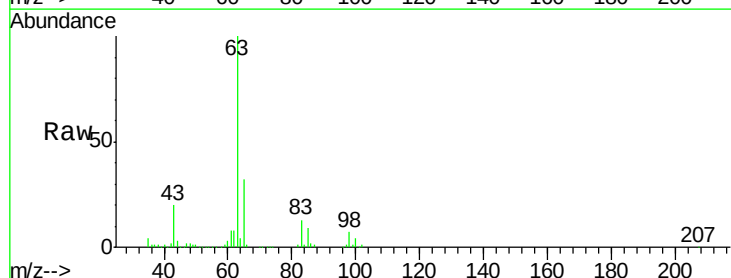
Tgt Ion: 63 Resp: 611981

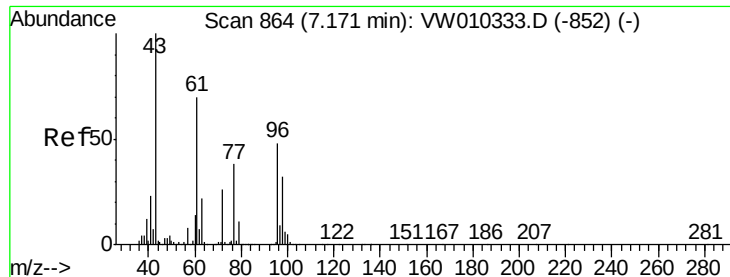
Ion Ratio Lower Upper

63 100

98 6.7 3.3 9.8

100 4.2 2.0 6.0





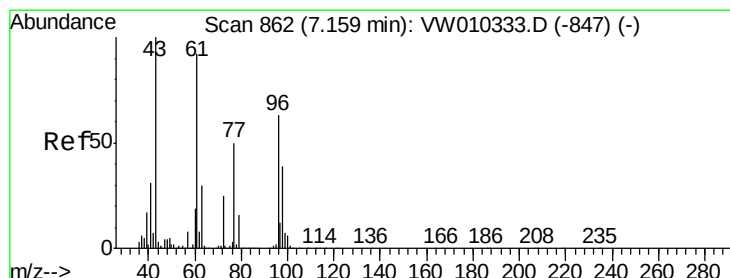
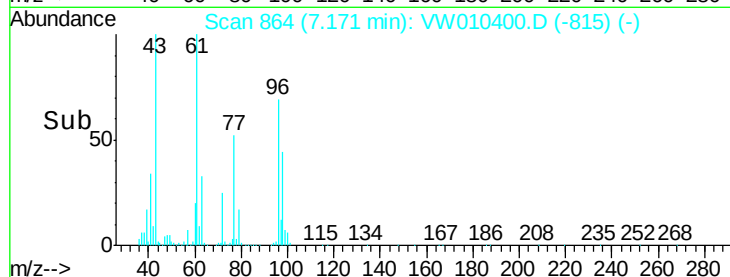
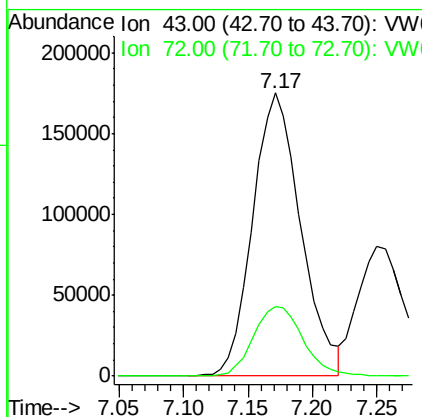
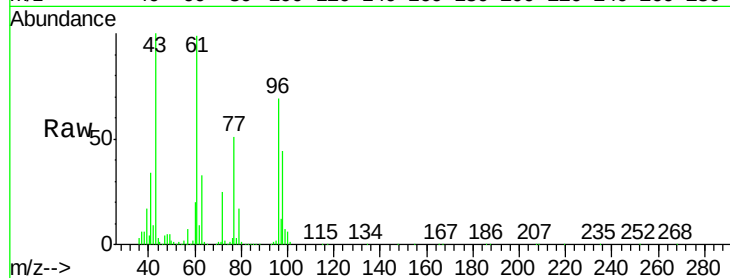
#25
2-Butanone
Concen: 83.618 ug/l
RT: 7.17 min Scan# 864
Delta R.T. -0.00 min
Lab File: VW010400.D
Acq: 12 May 2019 11:14

Instrument :
MSVOA_W
ClientSampleId :
VW0512SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
72	24.8	19.1	28.7

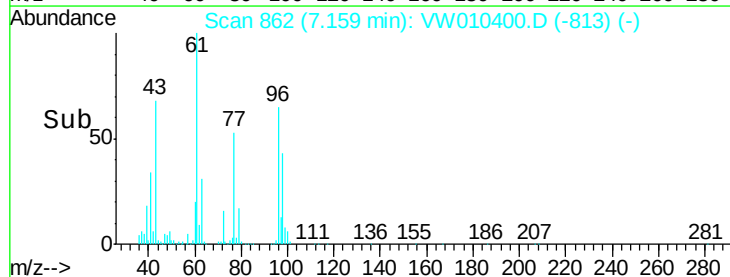
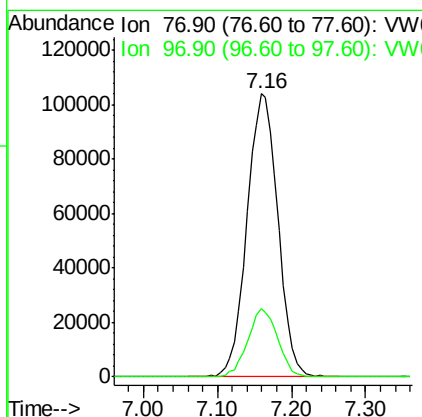
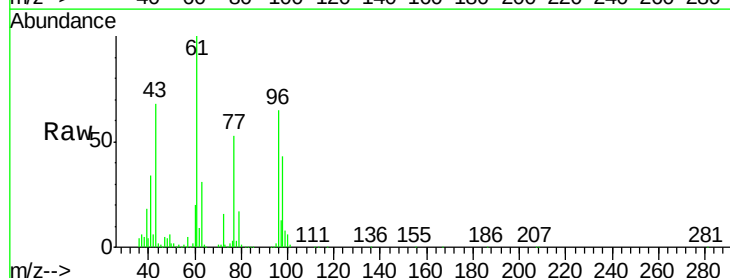
Manual Integrations
APPROVED

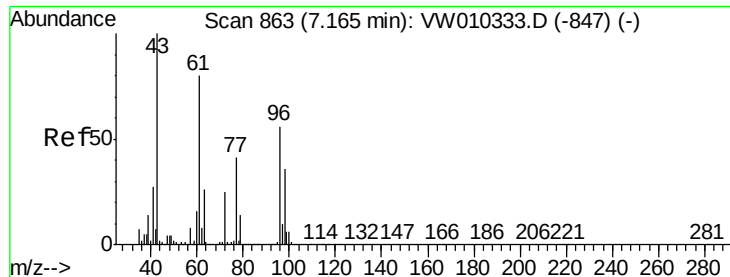
MMDadoda
5/13/2019 12:27:10 PM



#26
2,2-Dichloropropane
Concen: 22.353 ug/l
RT: 7.16 min Scan# 862
Delta R.T. -0.00 min
Lab File: VW010400.D
Acq: 12 May 2019 11:14

Tgt Ion	Ratio	Lower	Upper
77	100		
97	23.4	11.3	33.9





#27

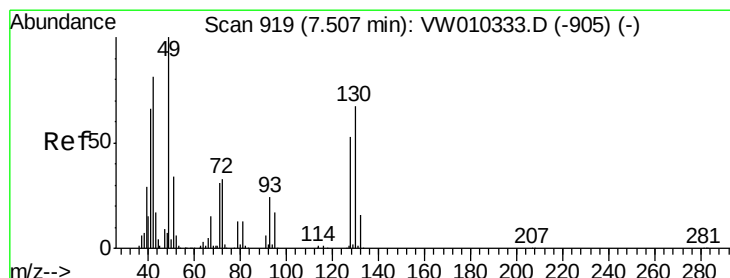
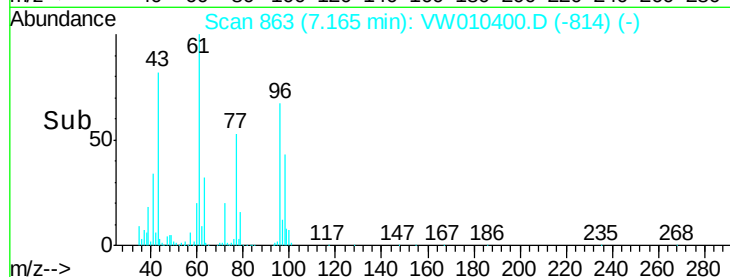
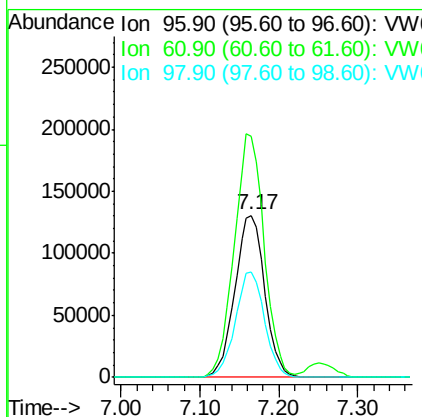
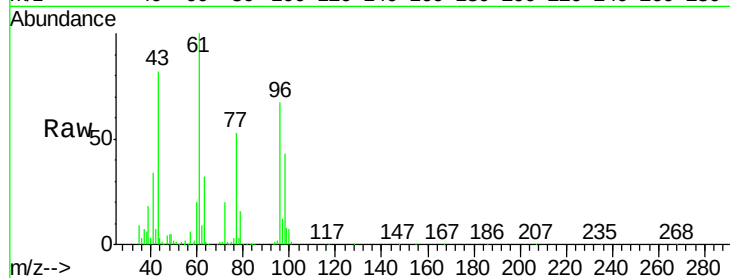
cis-1,2-Dichloroethene
Concen: 22.292 ug/l
RT: 7.17 min Scan# 863
Delta R.T. -0.00 min
Lab File: VW010400.D
Acq: 12 May 2019 11:14

Instrument :
MSVOA_W
ClientSampleId :
VW0512SBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	343388		
61	150.5	0.0	309.4	
98	63.8	0.0	128.6	

Manual Integrations
APPROVED

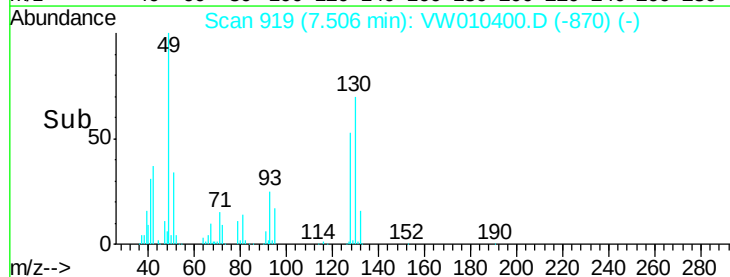
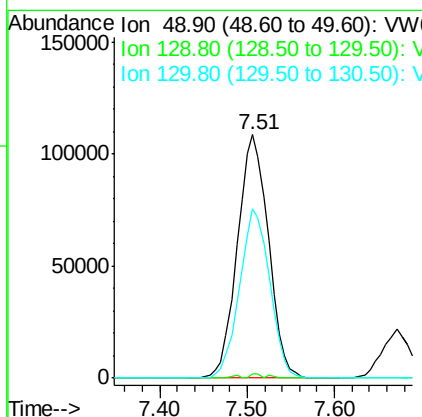
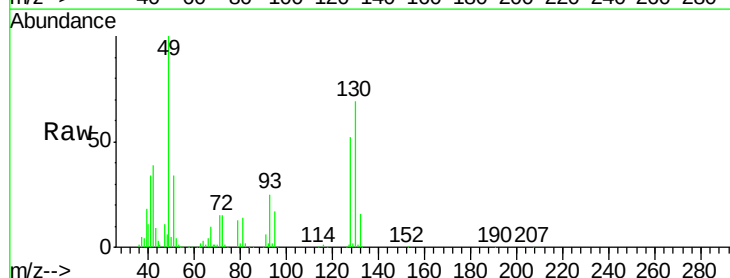
MMDadoda
5/13/2019 12:27:10 PM

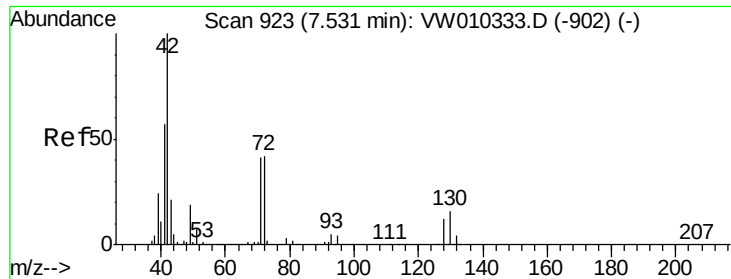


#28

Bromochloromethane
Concen: 26.786 ug/l
RT: 7.51 min Scan# 919
Delta R.T. -0.00 min
Lab File: VW010400.D
Acq: 12 May 2019 11:14

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	268036		
129	0.8	0.0	3.8	
130	67.8	54.6	82.0	





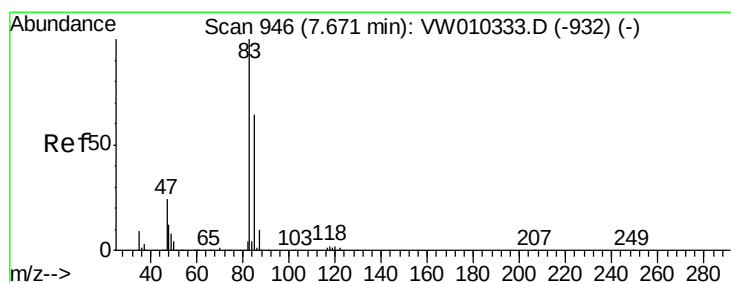
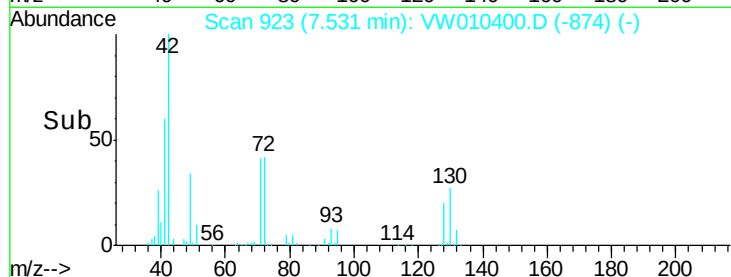
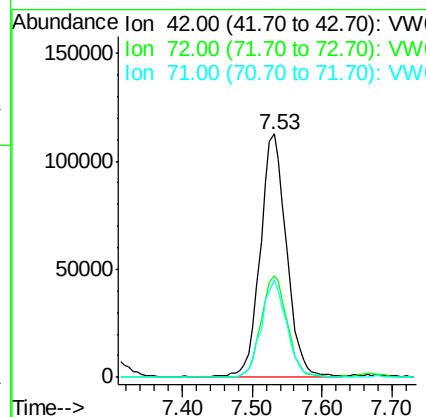
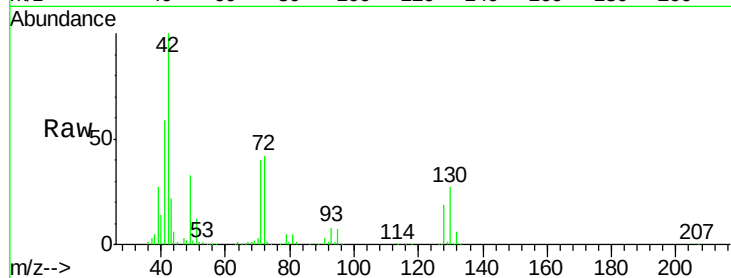
#29
Tetrahydrofuran
Concen: 82.895 ug/l
RT: 7.53 min Scan# 923
Delta R.T. -0.00 min
Lab File: VW010400.D
Acq: 12 May 2019 11:14

Instrument :
MSVOA_W
ClientSampleId :
VW0512SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	42.0	31.0	46.6
71	39.5	29.7	44.5

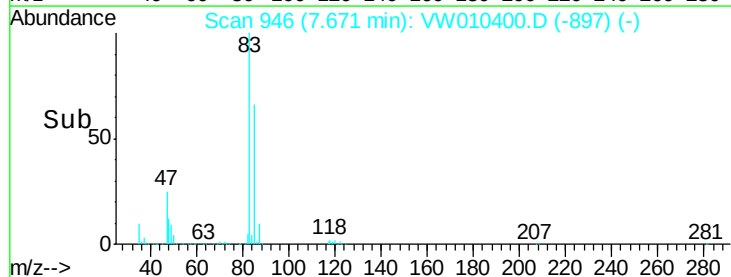
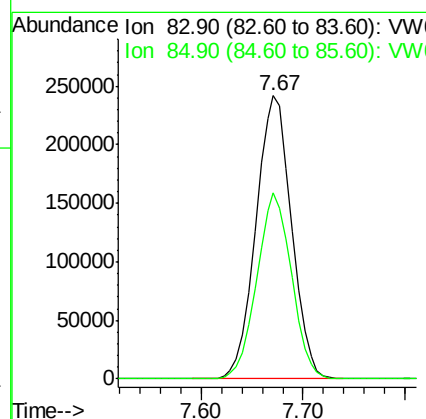
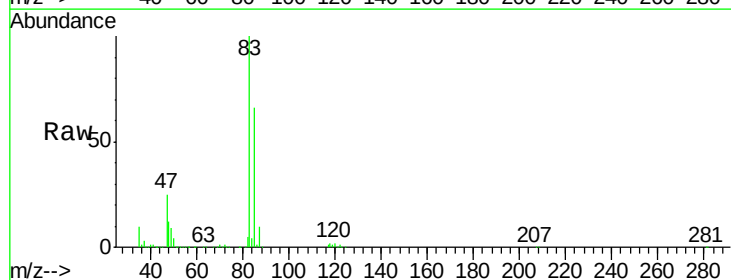
Manual Integrations
APPROVED

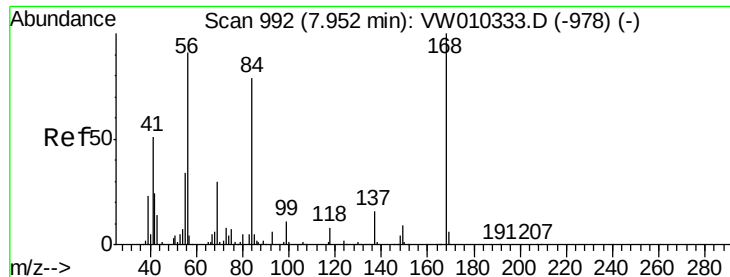
MMDadoda
5/13/2019 12:27:10 PM



#30
Chloroform
Concen: 23.071 ug/l
RT: 7.67 min Scan# 946
Delta R.T. -0.00 min
Lab File: VW010400.D
Acq: 12 May 2019 11:14

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.7	50.7	76.1





#31

Cyclohexane

Concen: 21.457 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

Instrument :

MSVOA_W

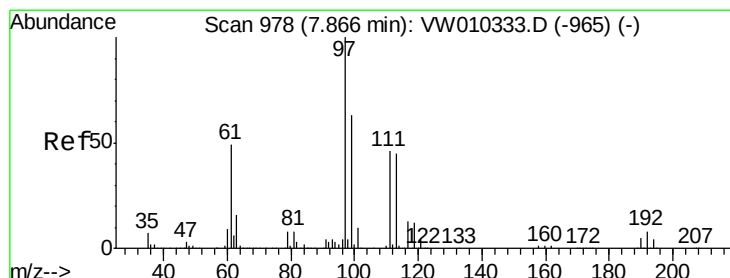
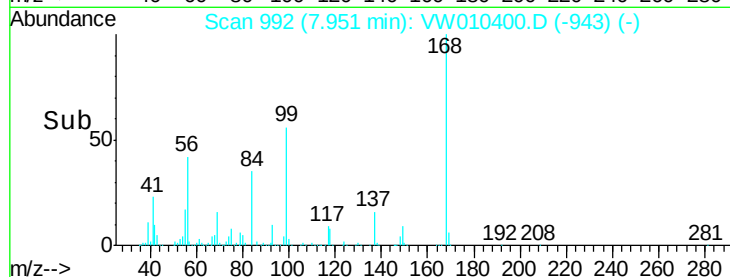
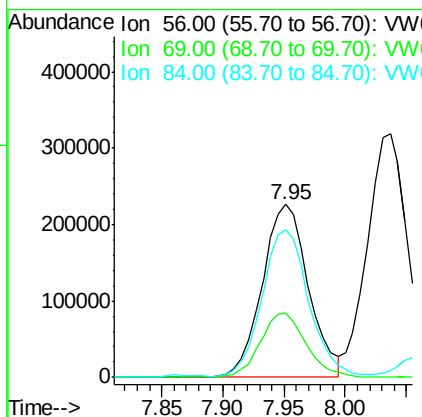
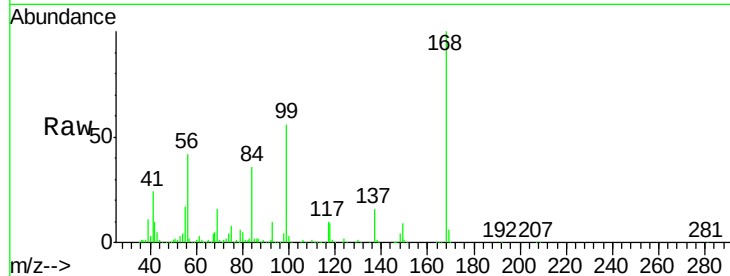
ClientSampleId :

VW0512SBS01

Tot Ion:	56	Resp:	596301
Ion Ratio	Lower	Upper	
56	100		
69	37.0	26.6	40.0
84	84.2	66.2	99.2

Manual Integrations
APPROVED

MMDadoda
5/13/2019 12:27:10 PM



#32

1,1,1-Trichloroethane

Concen: 22.500 ug/l

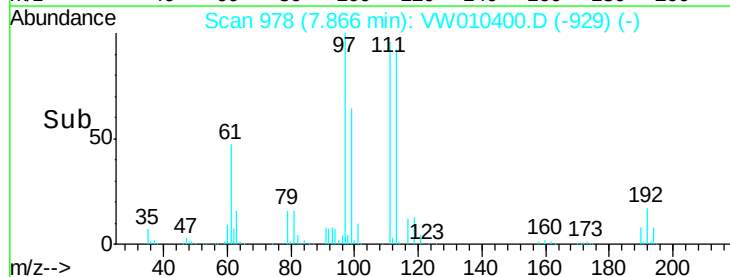
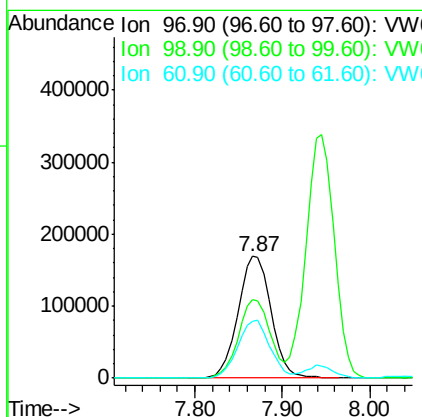
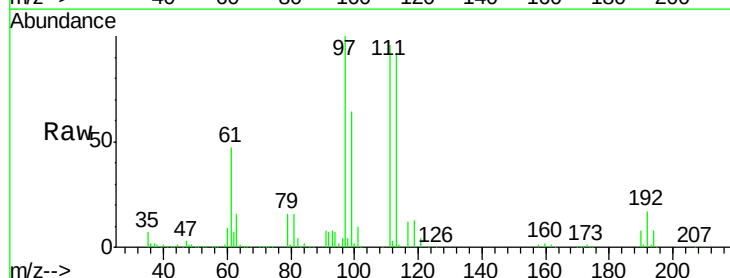
RT: 7.87 min Scan# 978

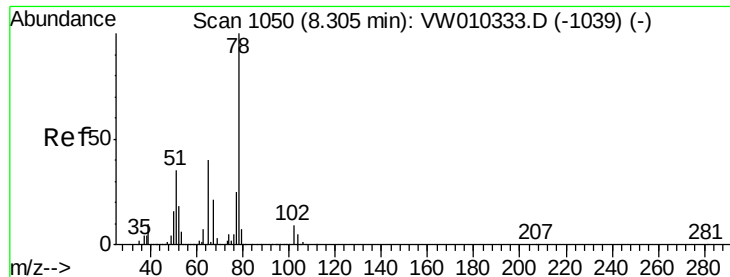
Delta R.T. -0.00 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

Tgt Ion:	97	Resp:	442684
Ion Ratio	Lower	Upper	
97	100		
99	62.8	50.2	75.2
61	46.8	38.2	57.2





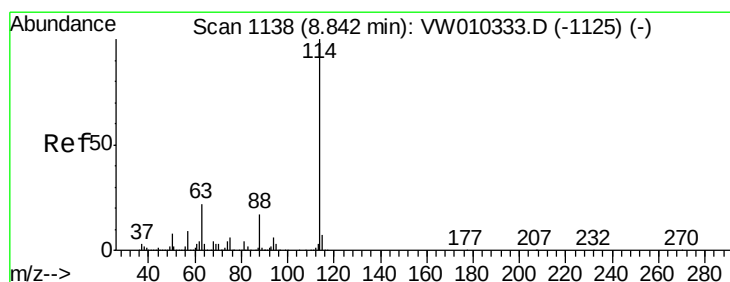
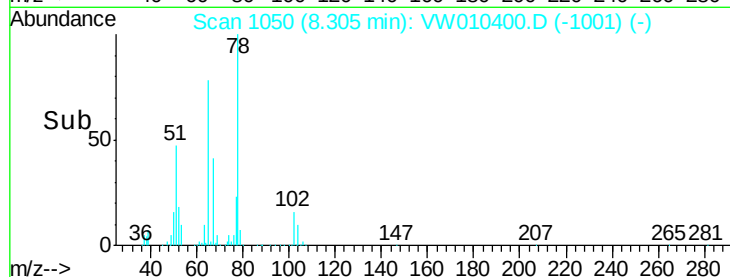
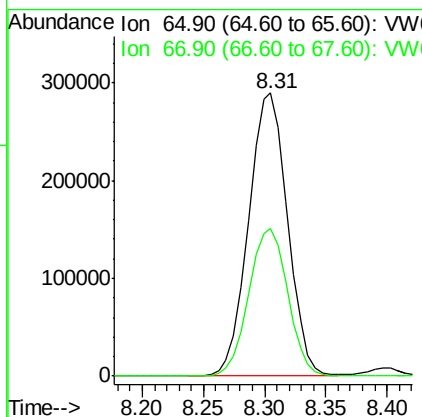
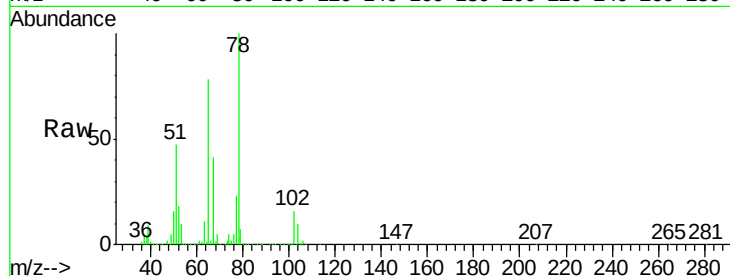
#33
 1,2-Dichloroethane-d4
 Concen: 47.183 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW010400.D
 Acq: 12 May 2019 11:14

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0512SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	52.4	0.0	100.8	

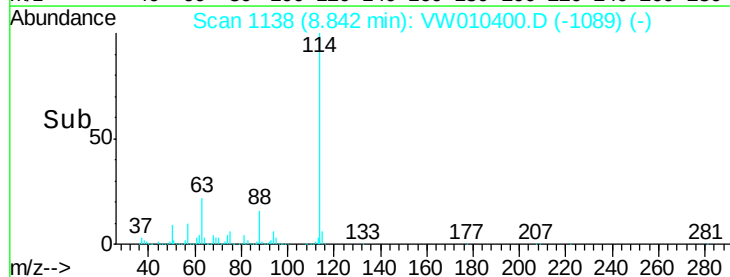
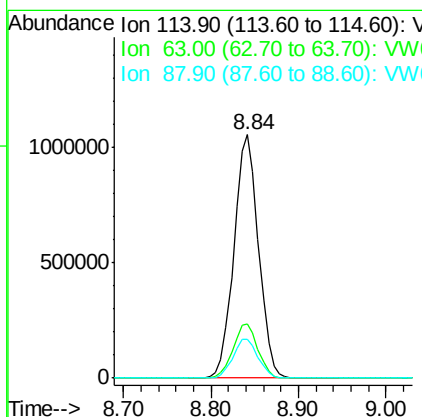
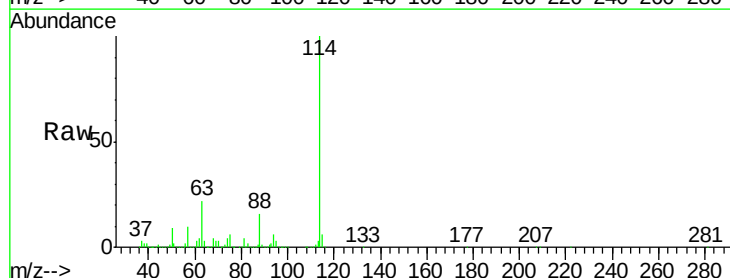
Manual Integrations
 APPROVED

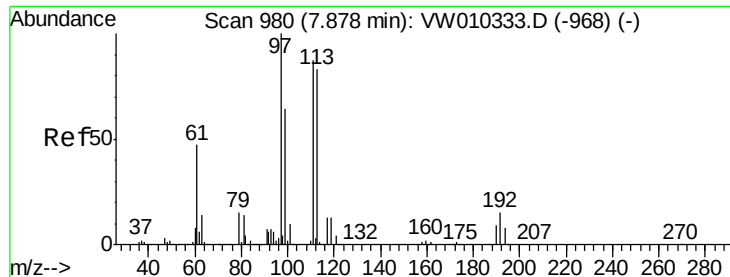
MMDadoda
 5/13/2019 12:27:10 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW010400.D
 Acq: 12 May 2019 11:14

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	22.2	0.0	46.2	
88	16.0	0.0	32.6	





#35

Dibromofluoromethane

Concen: 47.519 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.00 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

Instrument :

MSVOA_W

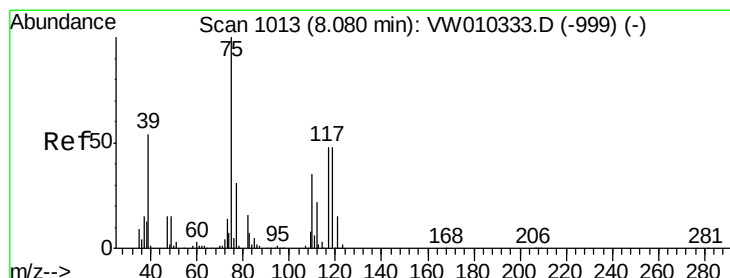
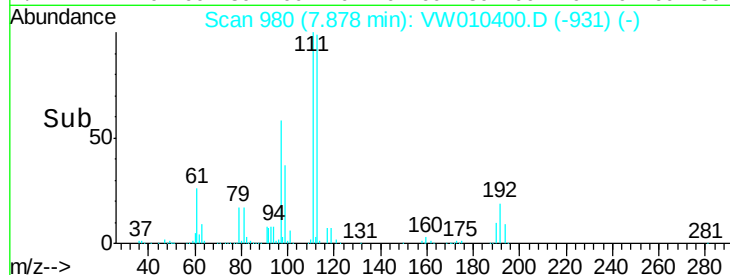
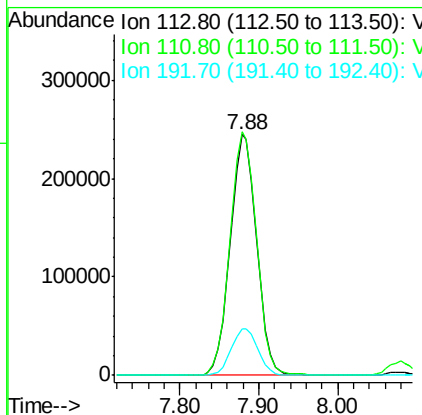
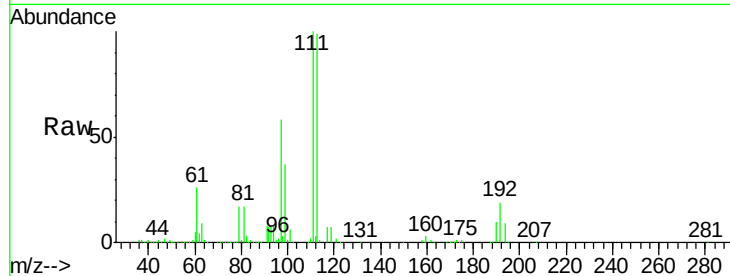
ClientSampleId :

VW0512SBS01

Tot Ion:	113	Resp:	570842
Ion Ratio	Lower	Upper	
113	100		
111	101.8	82.6	123.8
192	19.5	15.4	23.2

Manual Integrations
APPROVED

MMDadoda
5/13/2019 12:27:10 PM



#36

1,1-Dichloropropene

Concen: 21.982 ug/l

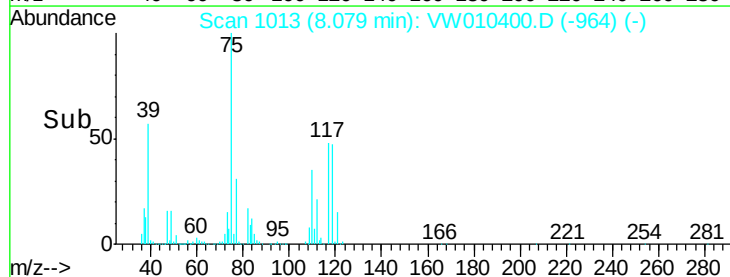
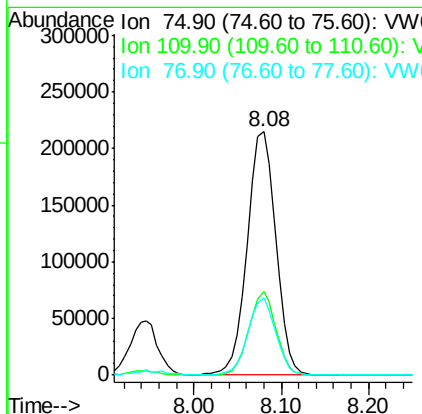
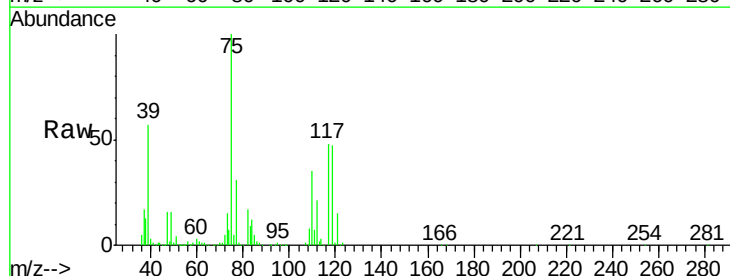
RT: 8.08 min Scan# 1013

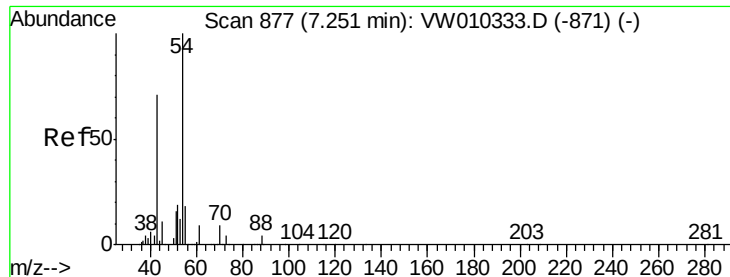
Delta R.T. -0.00 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

Tgt Ion:	75	Resp:	489291
Ion Ratio	Lower	Upper	
75	100		
110	32.7	16.6	49.8
77	30.9	24.8	37.2





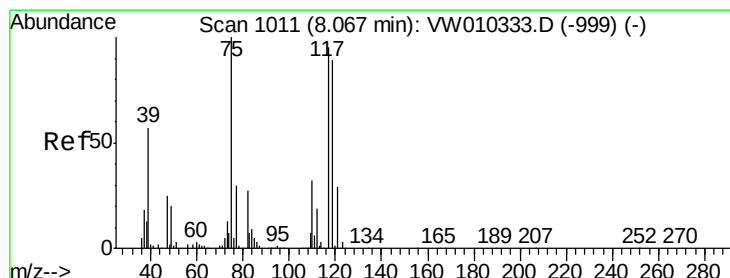
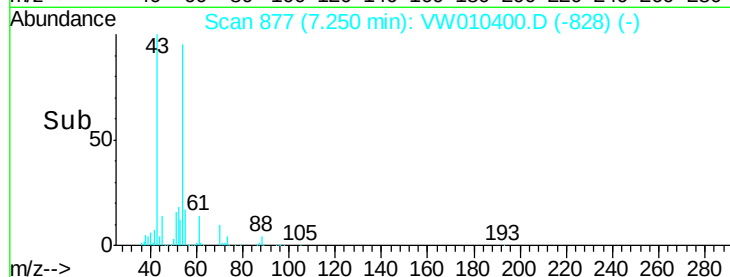
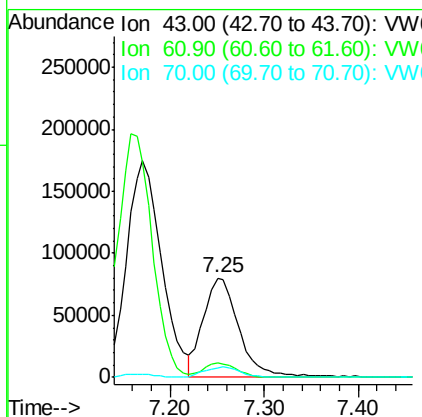
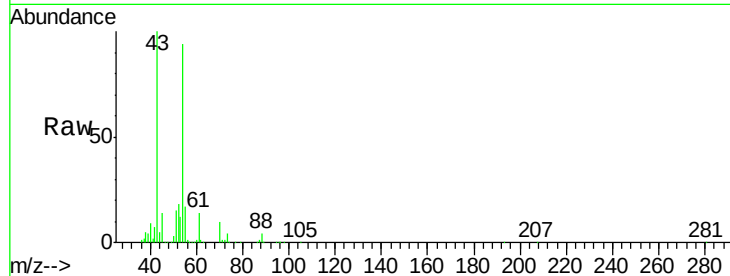
#37
Ethyl Acetate
Concen: 17.411 ug/l
RT: 7.25 min Scan# 877
Delta R.T. -0.00 min
Lab File: VW010400.D
Acq: 12 May 2019 11:14

Instrument :
MSVOA_W
ClientSampleId :
VW0512SBS01

Tot Ion	Ratio	Resp	Lower	Upper
43	100	206345		
61	13.4		9.8	14.8
70	10.0		7.4	11.0

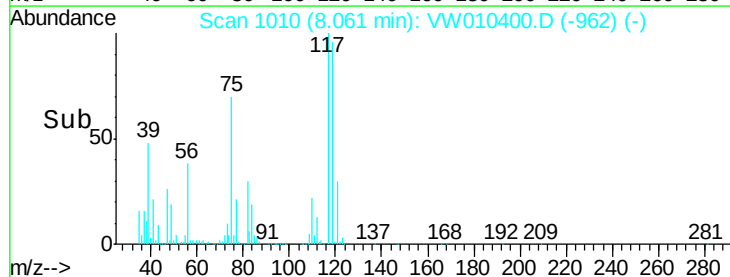
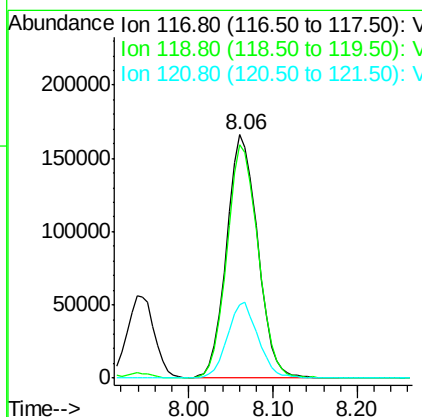
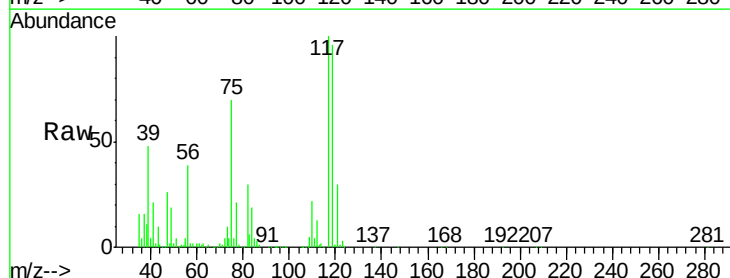
Manual Integrations
APPROVED

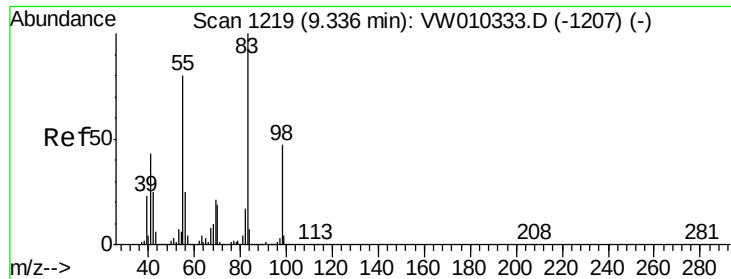
MMDadoda
5/13/2019 12:27:10 PM



#38
Carbon Tetrachloride
Concen: 21.824 ug/l
RT: 8.06 min Scan# 1010
Delta R.T. -0.01 min
Lab File: VW010400.D
Acq: 12 May 2019 11:14

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	416413		
119	95.5		75.3	112.9
121	29.9		24.4	36.6





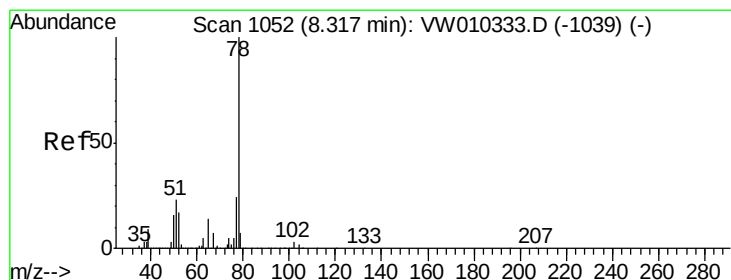
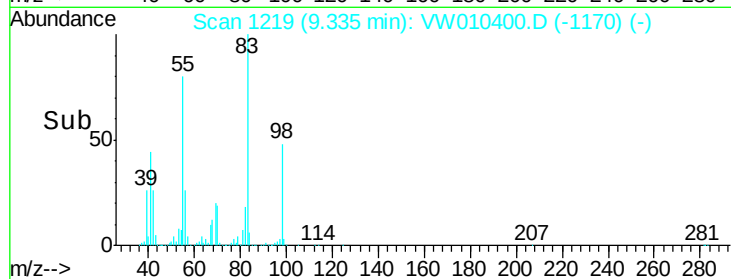
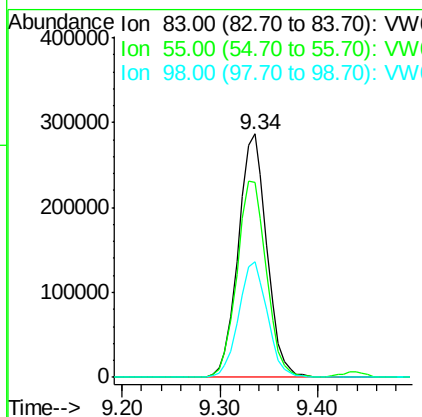
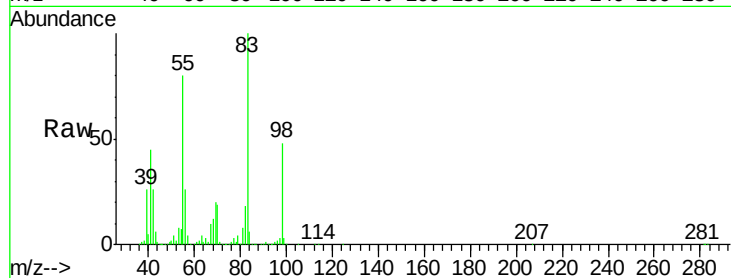
#39
Methylvlcyclohexane
Concen: 21.314 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW010400.D
Acq: 12 May 2019 11:14

Instrument :
MSVOA_W
ClientSampleId :
VW0512SBS01

Tot Ion	83	Resp	580366
Ion	Ratio	Lower	Upper
83	100		
55	80.1	67.1	100.7
98	47.7	39.2	58.8

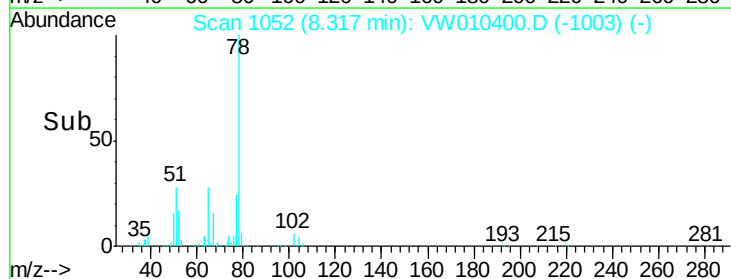
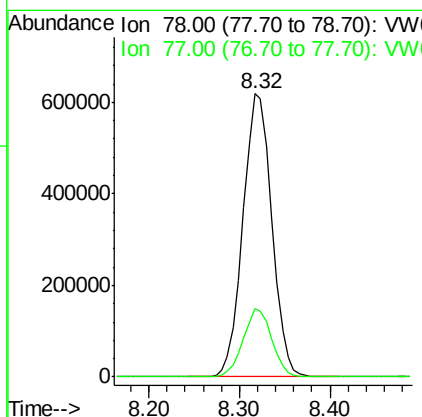
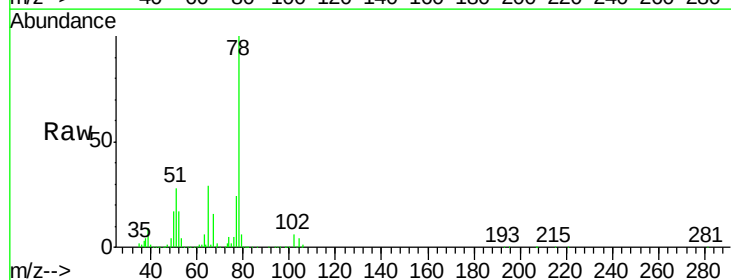
Manual Integrations
APPROVED

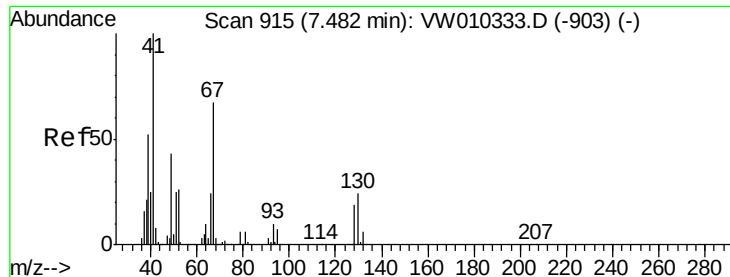
MMDadoda
5/13/2019 12:27:10 PM



#40
Benzene
Concen: 22.340 ug/l
RT: 8.32 min Scan# 1052
Delta R.T. -0.00 min
Lab File: VW010400.D
Acq: 12 May 2019 11:14

Tgt Ion	78	Resp	1361817
Ion	Ratio	Lower	Upper
78	100		
77	24.3	19.1	28.7





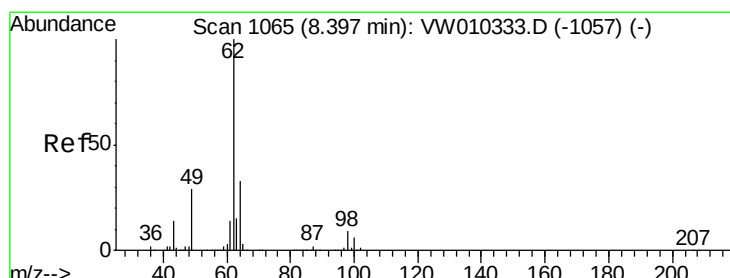
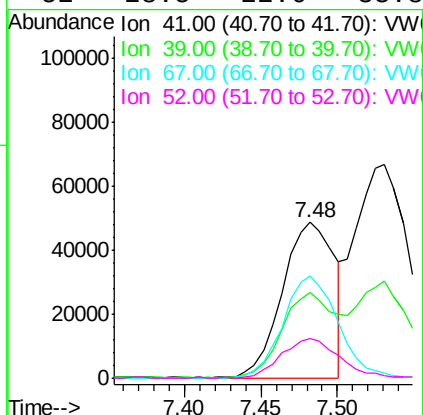
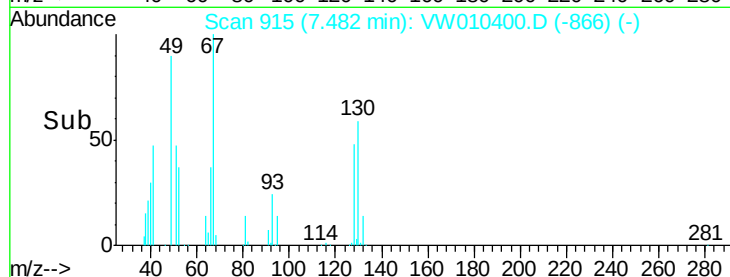
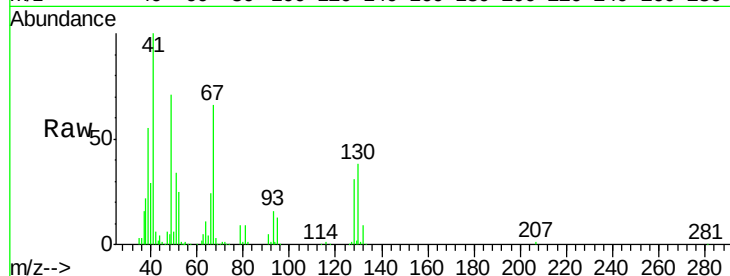
#41
Methacrylonitrile
Concen: 17.250 ug/l
RT: 7.48 min Scan# 915
Delta R.T. -0.00 min
Lab File: VW010400.D
Acq: 12 May 2019 11:14

Instrument :
MSVOA_W
ClientSampled :
VW0512SBS01

Tot Ion	Ratio	Lower	Upper
41	100		
39	60.3	45.0	67.4
67	70.7	50.7	76.1
52	28.5	22.6	33.8

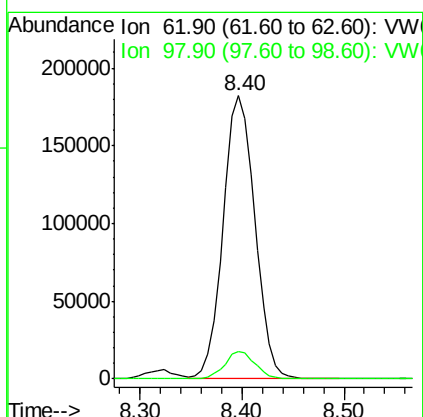
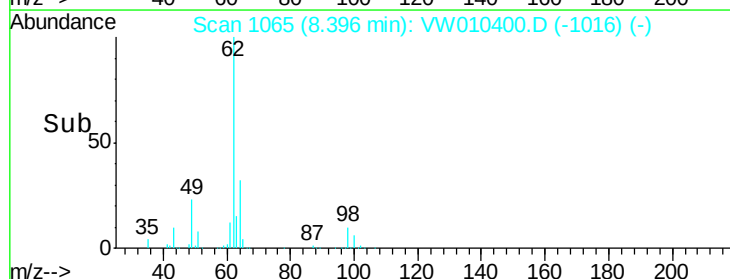
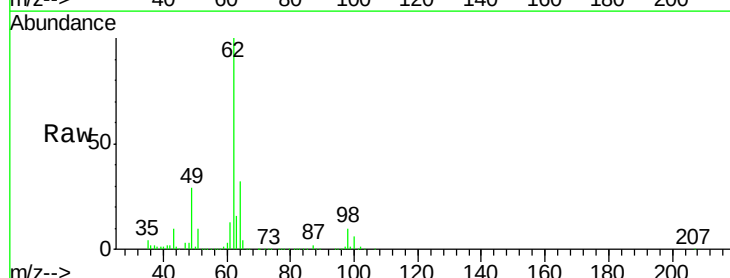
Manual Integrations
APPROVED

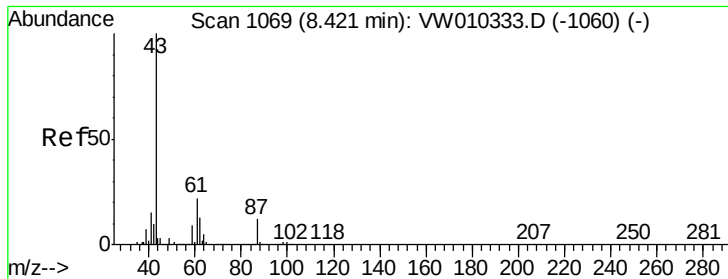
MMDadoda
5/13/2019 12:27:10 PM



#42
1,2-Dichloroethane
Concen: 22.532 ug/l
RT: 8.40 min Scan# 1065
Delta R.T. -0.00 min
Lab File: VW010400.D
Acq: 12 May 2019 11:14

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	16.6





#43

Isopropyl Acetate

Concen: 18.606 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. 0.01 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

Instrument :

MSVOA_W

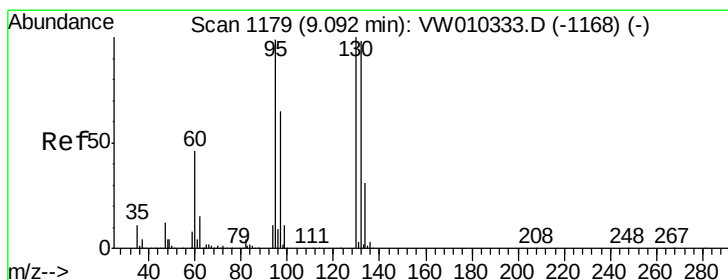
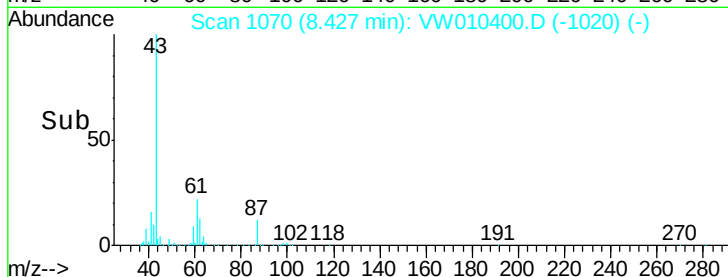
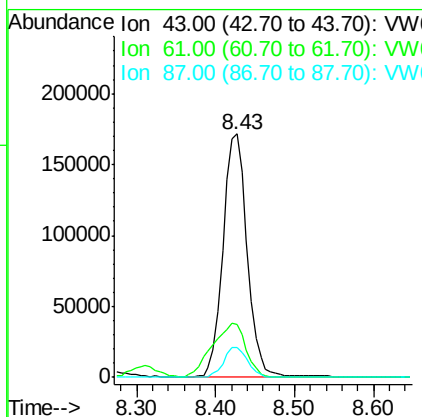
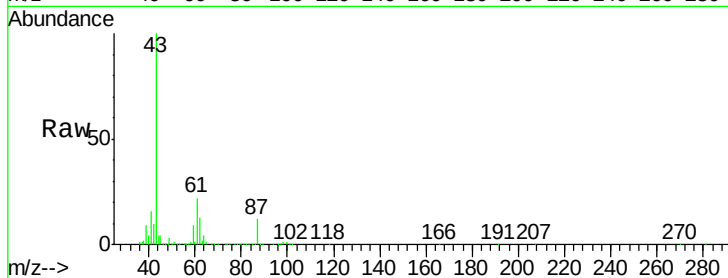
ClientSampleId :

VW0512SBS01

Tot Ion:	43	Resp:	365690
Ion	Ratio	Lower	Upper
43	100		
61	30.8	23.0	34.6
87	12.3	9.3	13.9

Manual Integrations
APPROVED

MMDadoda
5/13/2019 12:27:10 PM



#44

Trichloroethene

Concen: 21.774 ug/l

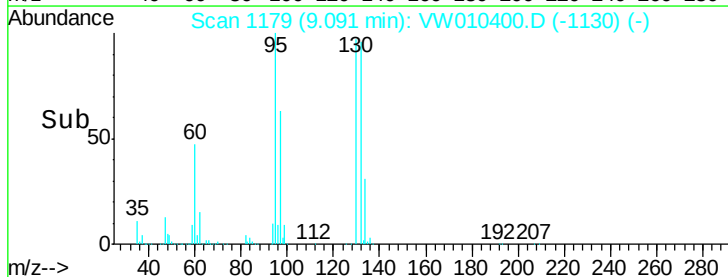
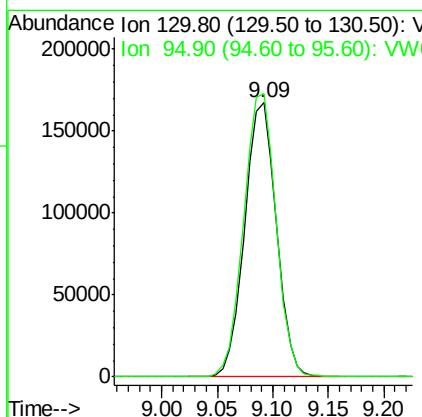
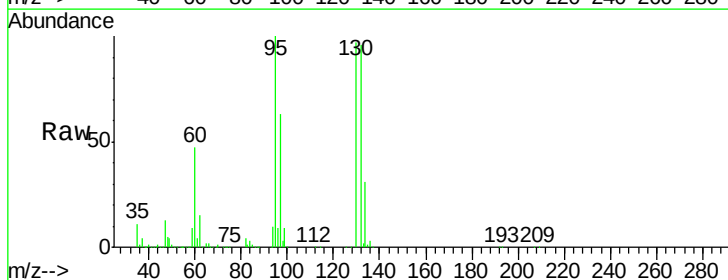
RT: 9.09 min Scan# 1179

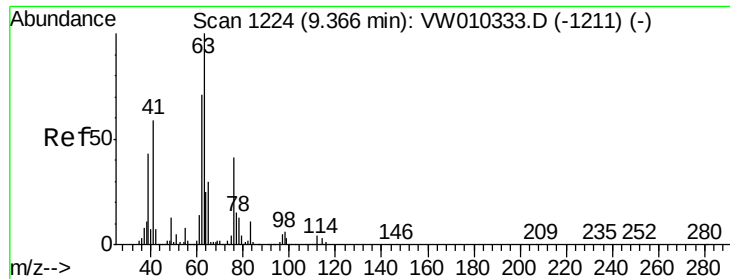
Delta R.T. -0.00 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

Tgt Ion:	130	Resp:	332286
Ion	Ratio	Lower	Upper
130	100		
95	103.2	0.0	205.4





#45

1,2-Dichloropropane

Concen: 22.826 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. -0.00 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

Instrument :

MSVOA_W

ClientSampleId :

VW0512SBS01

Tot Ion: 63 Resp: 345863

Ion Ratio Lower Upper

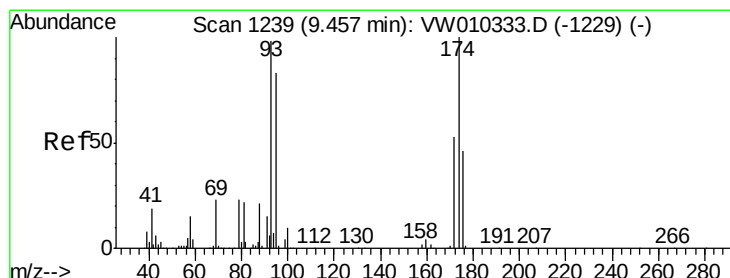
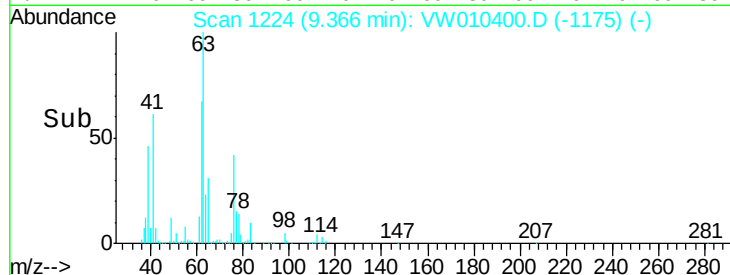
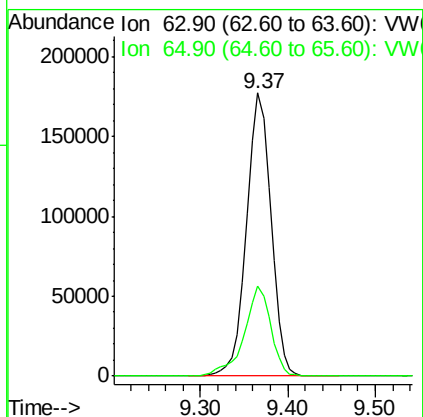
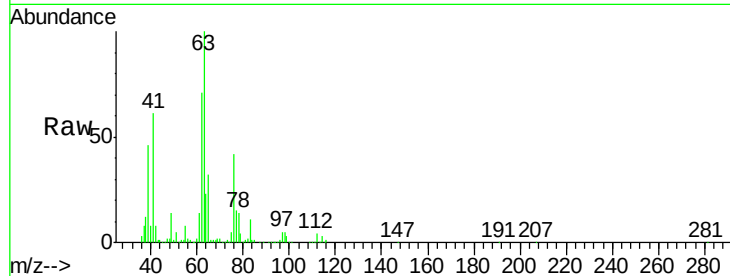
63 100

65 31.7 23.8 35.6

Manual Integrations
APPROVED

MMDadoda

5/13/2019 12:27:10 PM



#46

Dibromomethane

Concen: 21.444 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. -0.00 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

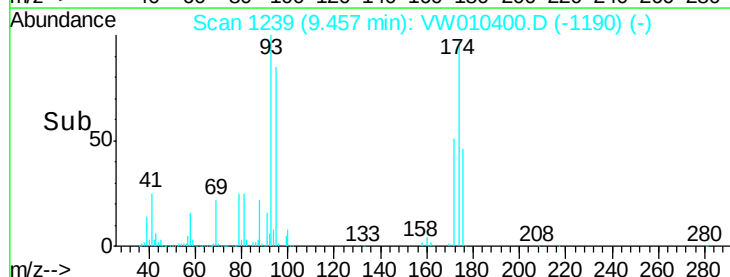
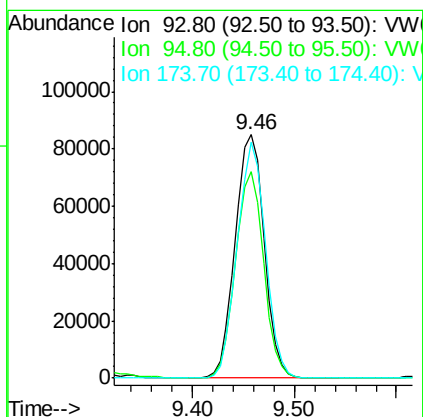
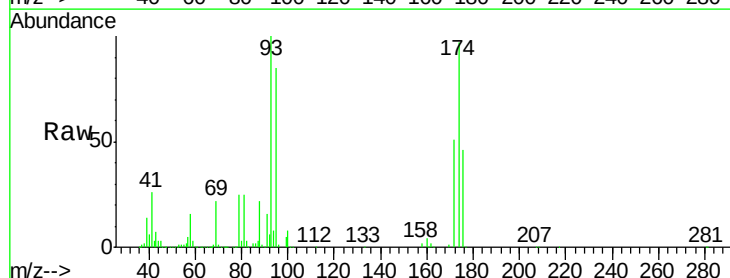
Tgt Ion: 93 Resp: 167862

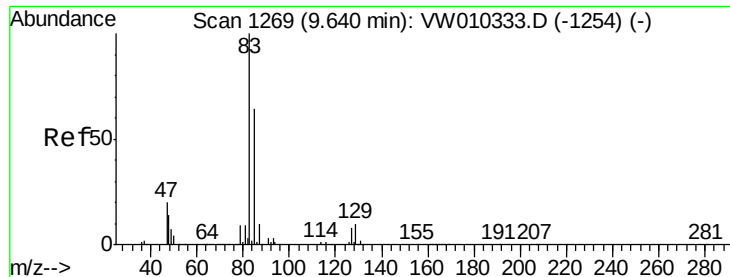
Ion Ratio Lower Upper

93 100

95 82.5 65.8 98.8

174 94.3 75.5 113.3





#47

Bromodichloromethane

Concen: 22.705 ug/l

RT: 9.64 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

Instrument :

MSVOA_W

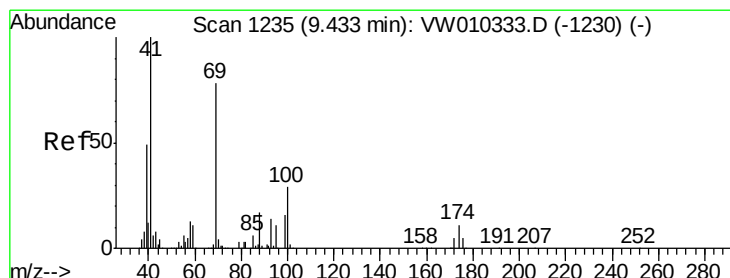
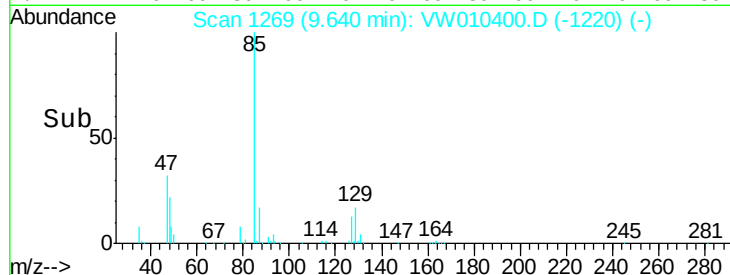
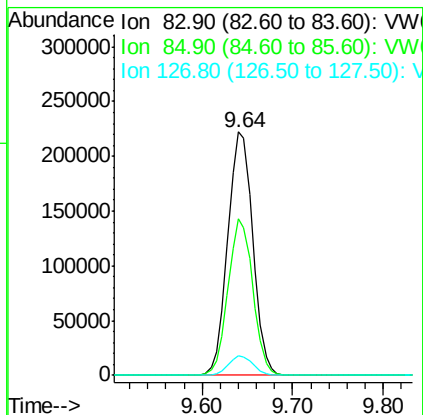
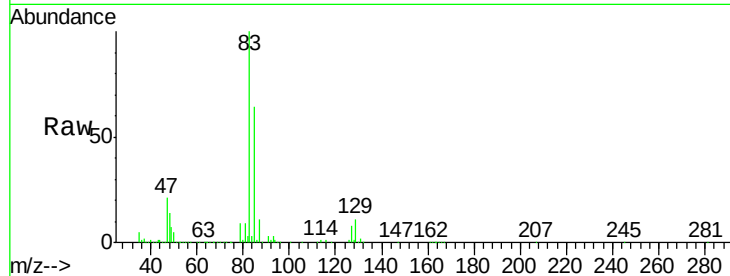
ClientSampleId :

VW0512SBS01

Tot Ion	83	Resp	426326
Ion Ratio	Lower	Upper	
83	100		
85	64.4	50.6	75.8
127	8.3	6.6	10.0

Manual Integrations
APPROVED

MMDadoda
5/13/2019 12:27:10 PM



#48

Methyl methacrylate

Concen: 18.460 ug/l

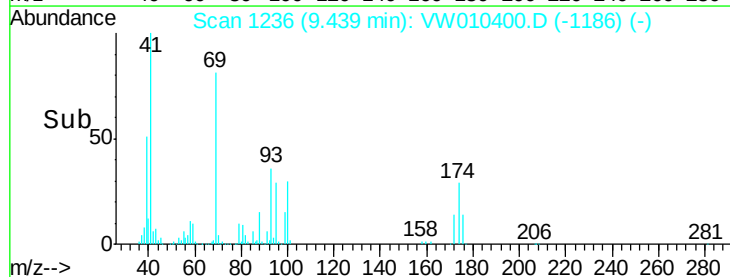
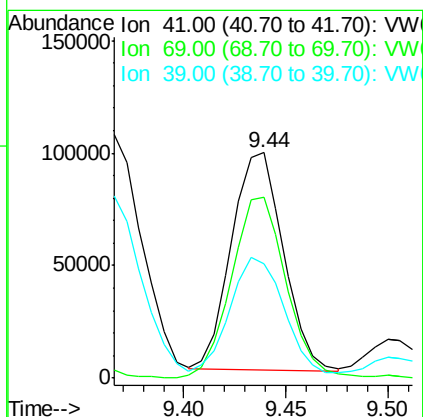
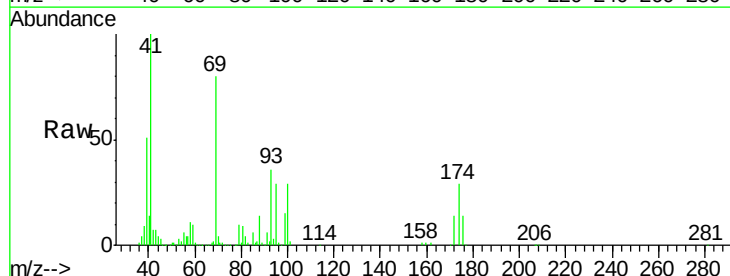
RT: 9.44 min Scan# 1236

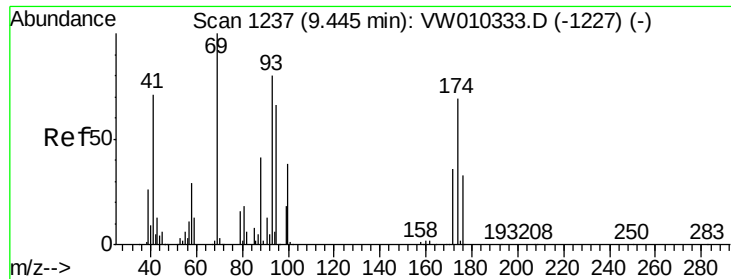
Delta R.T. 0.01 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

Tgt Ion	41	Resp	171557
Ion Ratio	Lower	Upper	
41	100		
69	86.8	60.1	90.1
39	54.2	51.0	76.6





#49

1,4-Dioxane

Concen: 328.114 ug/l

RT: 9.45 min Scan# 1237

Delta R.T. -0.00 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

Instrument :

MSVOA_W

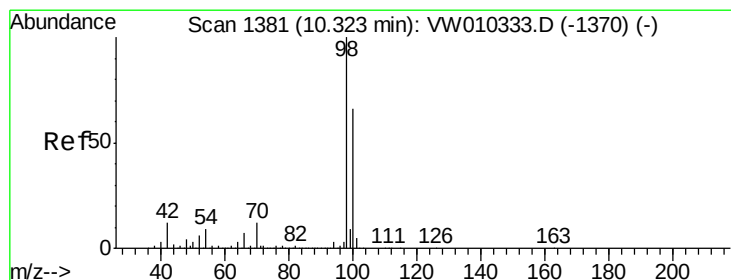
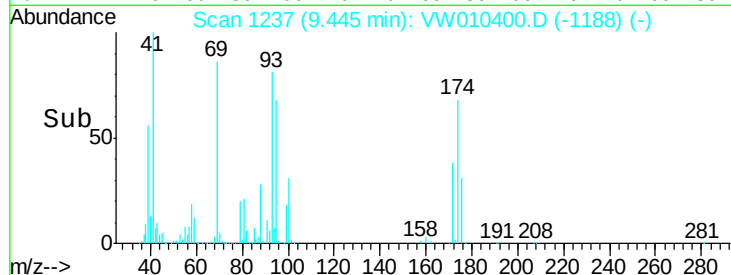
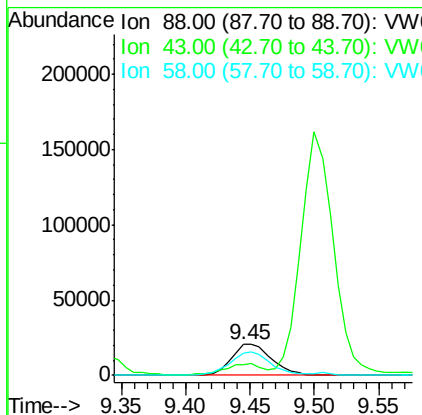
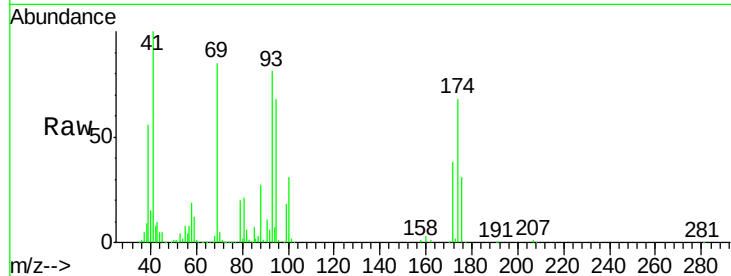
ClientSampled :

VW0512SBS01

Tot Ion:	88	Resp:	44791
Ion	Ratio	Lower	Upper
88	100		
43	33.6	31.9	47.9
58	76.0	61.8	92.6

Manual Integrations
APPROVED

MMDadoda
5/13/2019 12:27:10 PM



#50

Toluene-d8

Concen: 46.679 ug/l

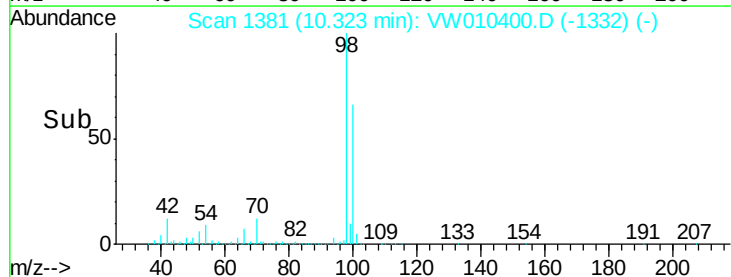
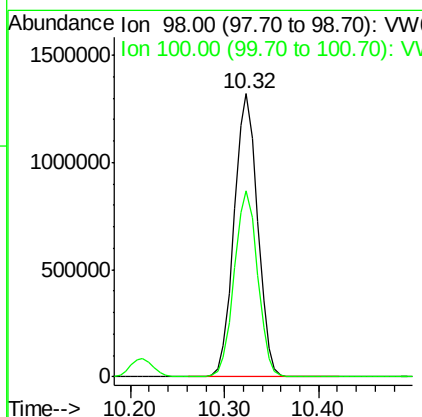
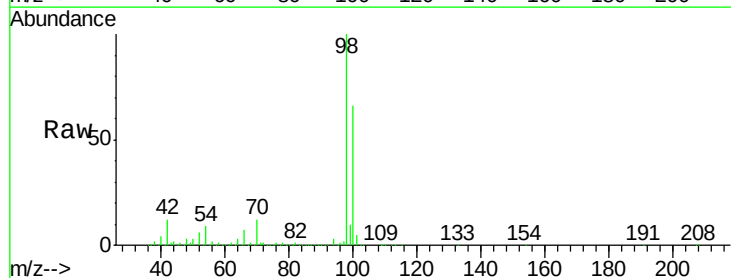
RT: 10.32 min Scan# 1381

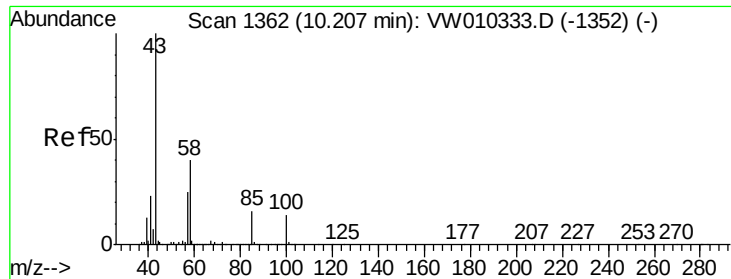
Delta R.T. -0.00 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

Tgt Ion:	98	Resp:	2283414
Ion	Ratio	Lower	Upper
98	100		
100	65.7	52.3	78.5





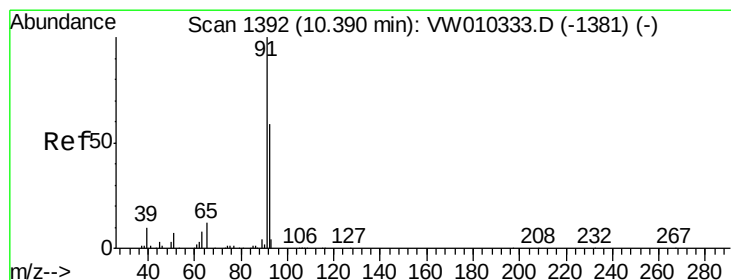
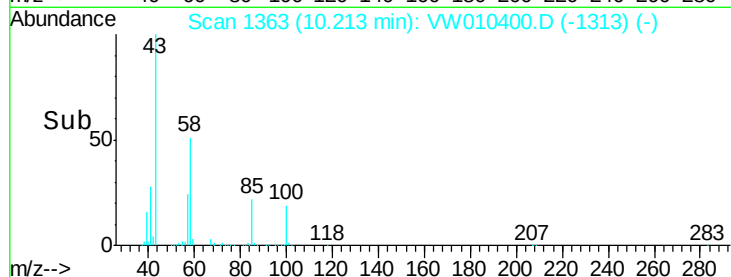
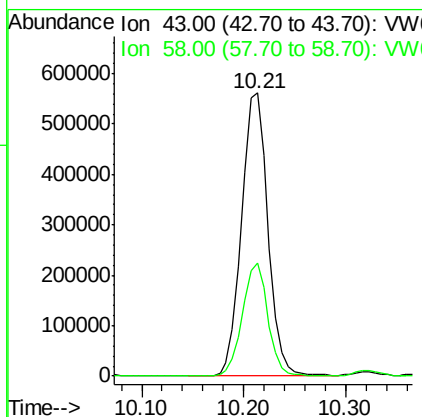
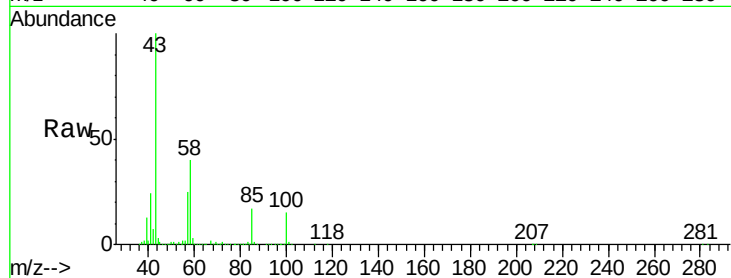
#51
4-Methyl-2-Pentanone
Concen: 89.724 ug/l
RT: 10.21 min Scan# 1363
Delta R.T. 0.01 min
Lab File: VW010400.D
Acq: 12 May 2019 11:14

Instrument :
MSVOA_W
ClientSampleId :
VW0512SBS01

Tot Ion: 43 Resp: 1011213
Ion Ratio Lower Upper
43 100
58 38.6 28.9 43.3

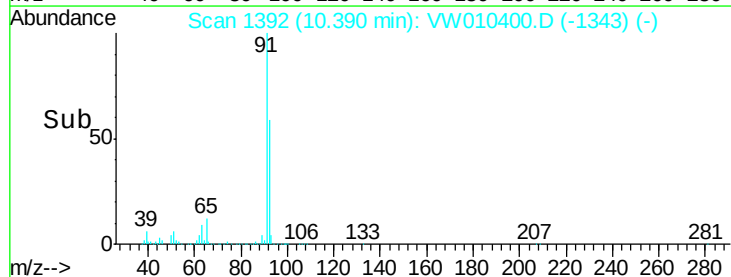
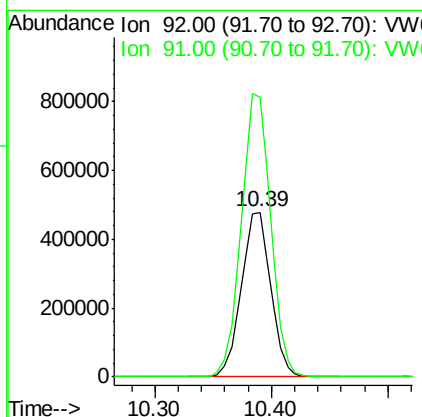
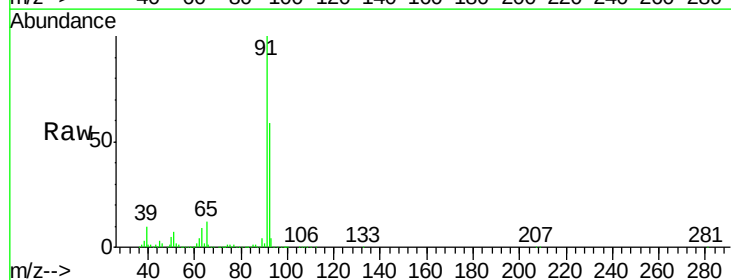
Manual Integrations
APPROVED

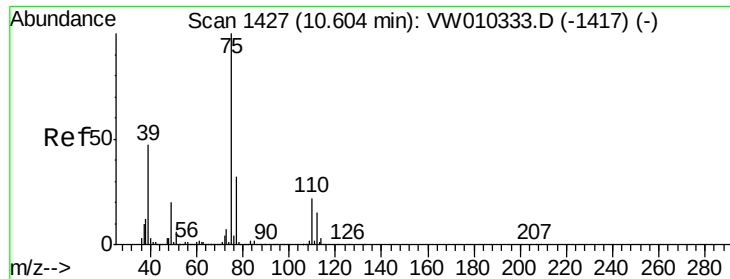
MMDadoda
5/13/2019 12:27:10 PM



#52
Toluene
Concen: 22.593 ug/l
RT: 10.39 min Scan# 1392
Delta R.T. -0.00 min
Lab File: VW010400.D
Acq: 12 May 2019 11:14

Tgt Ion: 92 Resp: 841795
Ion Ratio Lower Upper
92 100
91 172.9 138.5 207.7





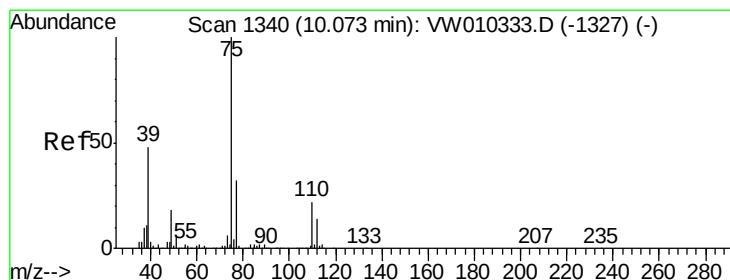
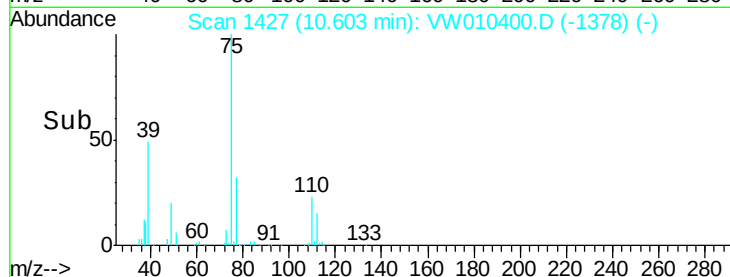
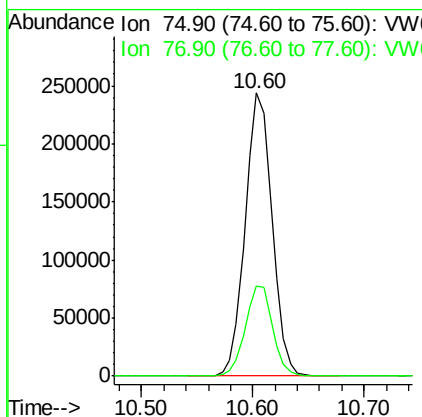
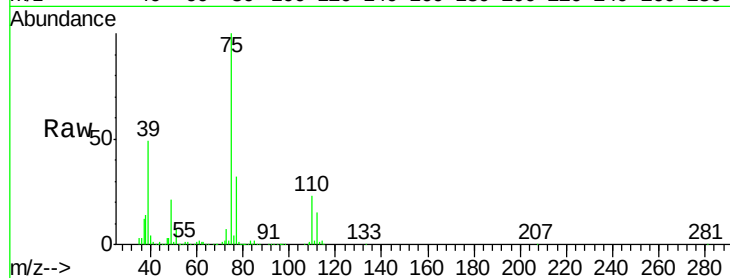
#53
 t-1,3-Dichloropropene
 Concen: 21.583 ug/l
 RT: 10.60 min Scan# 1427
 Delta R.T. -0.00 min
 Lab File: VW010400.D
 Acq: 12 May 2019 11:14

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0512SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.6	26.9	40.3

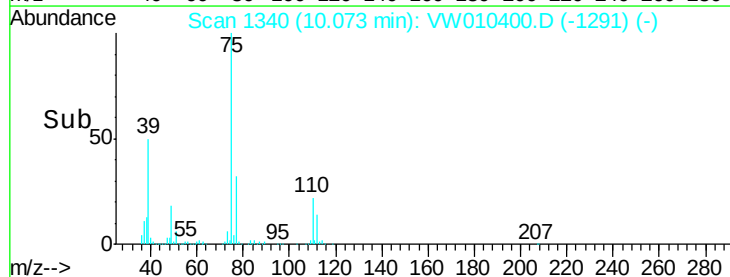
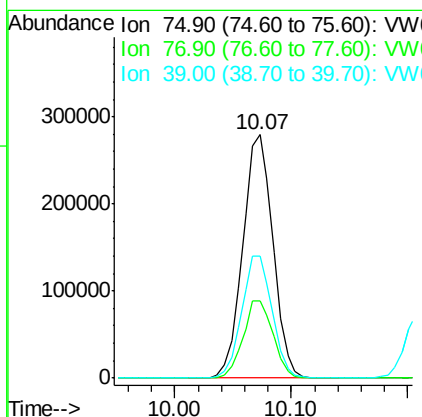
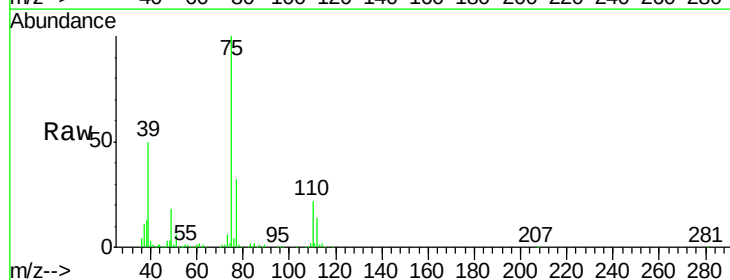
Manual Integrations
 APPROVED

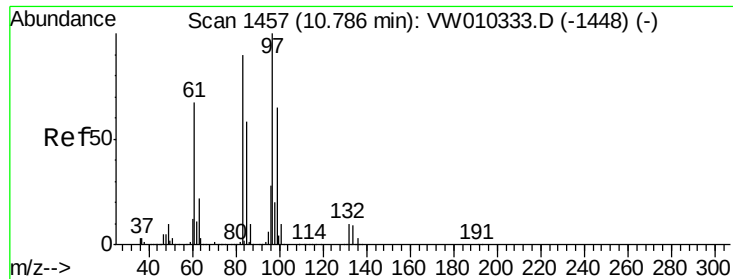
MMDadoda
 5/13/2019 12:27:10 PM



#54
 cis-1,3-Dichloropropene
 Concen: 22.382 ug/l
 RT: 10.07 min Scan# 1340
 Delta R.T. -0.00 min
 Lab File: VW010400.D
 Acq: 12 May 2019 11:14

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.6	38.4
39	49.8	47.8	71.6





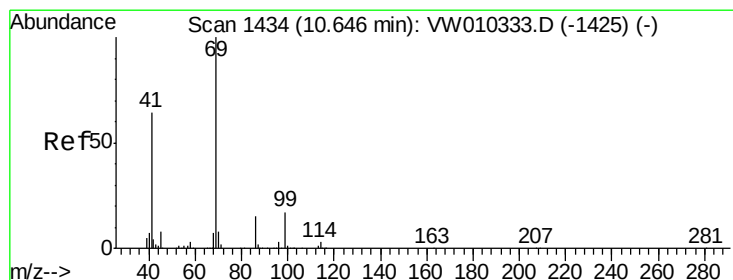
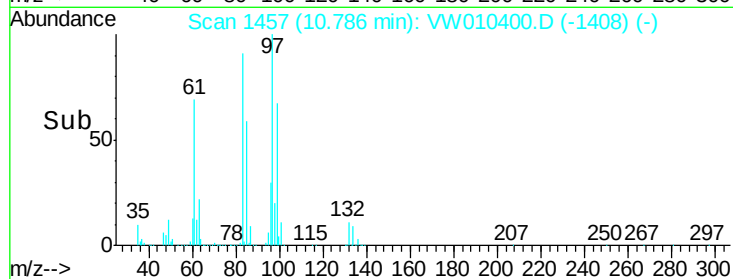
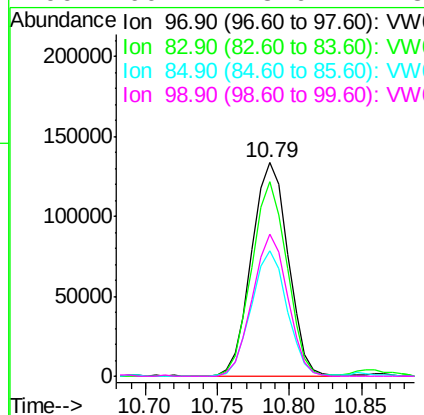
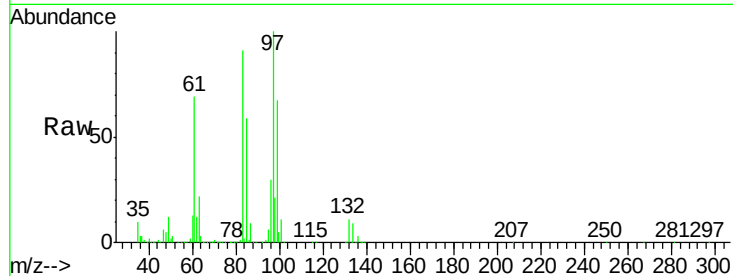
#55
 1,1,2-Trichloroethane
 Concen: 21.081 ug/l
 RT: 10.79 min Scan# 1457
 Delta R.T. -0.00 min
 Lab File: VW010400.D
 Acq: 12 May 2019 11:14

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0512SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		234382		
83	90.9	68.9	103.3		
85	58.5	42.9	64.3		
99	66.7	48.6	72.8		

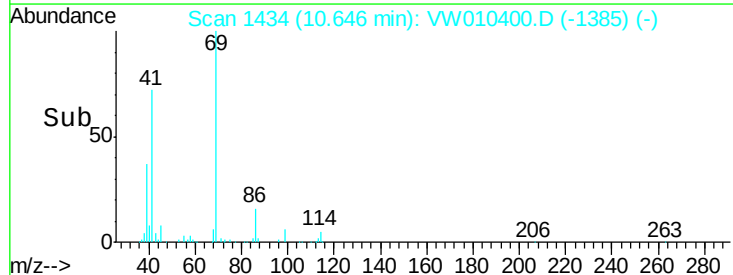
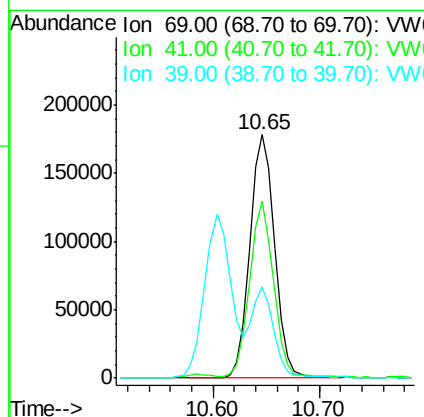
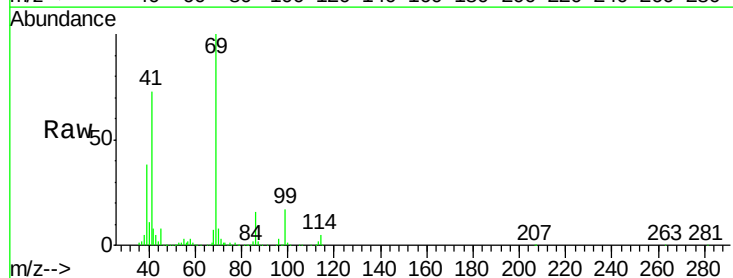
Manual Integrations
 APPROVED

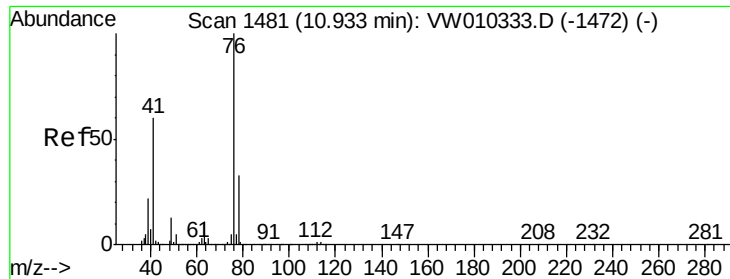
MMDadoda
 5/13/2019 12:27:10 PM



#56
 Ethyl methacrylate
 Concen: 19.840 ug/l
 RT: 10.65 min Scan# 1434
 Delta R.T. -0.00 min
 Lab File: VW010400.D
 Acq: 12 May 2019 11:14

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		291285		
41	69.5	61.0	91.6		
39	33.8	33.8	50.6		





#57

1,3-Dichloropropane

Concen: 21.939 ug/l

RT: 10.93 min Scan# 1481

Delta R.T. -0.00 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

Instrument :

MSVOA_W

ClientSampleId :

VW0512SBS01

Tot Ion: 76 Resp: 436050

Ion Ratio Lower Upper

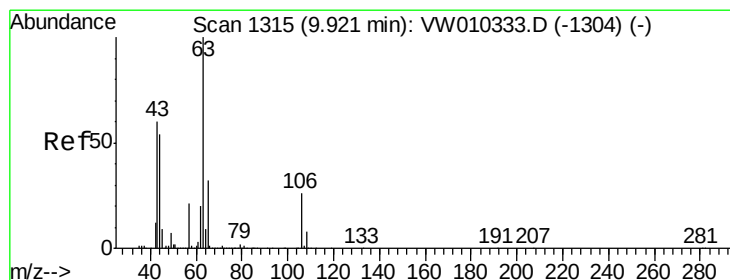
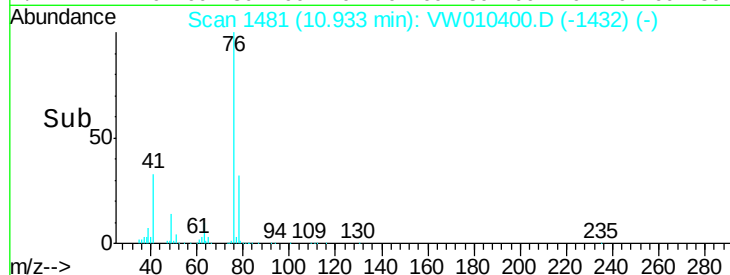
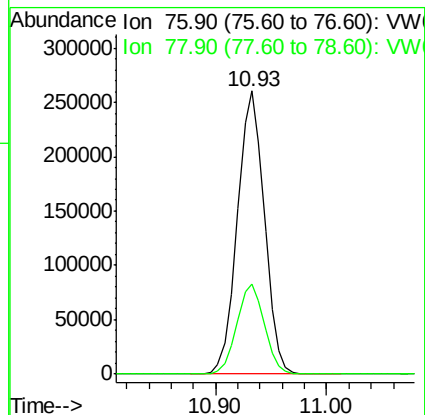
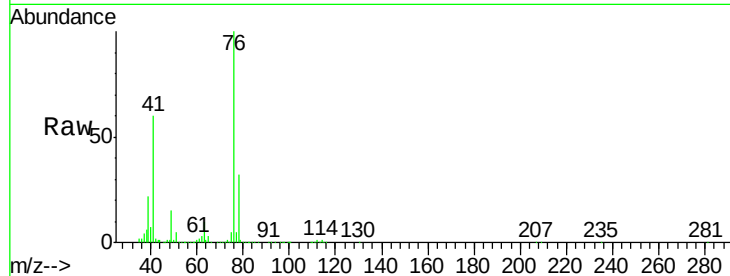
76 100

78 32.5 25.8 38.8

Manual Integrations
APPROVED

MMDadoda

5/13/2019 12:27:10 PM



#58

2-Chloroethyl Vinyl ether

Concen: 109.489 ug/l

RT: 9.93 min Scan# 1316

Delta R.T. 0.01 min

Lab File: VW010400.D

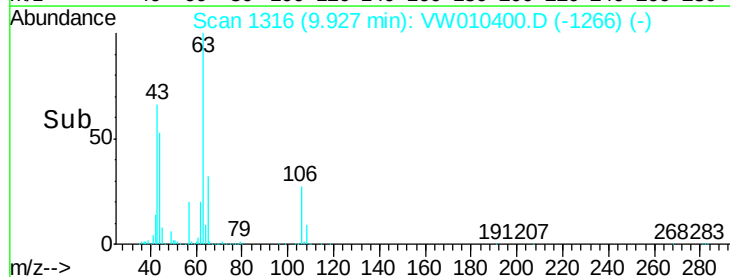
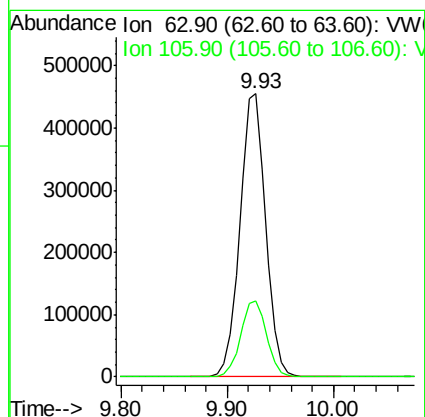
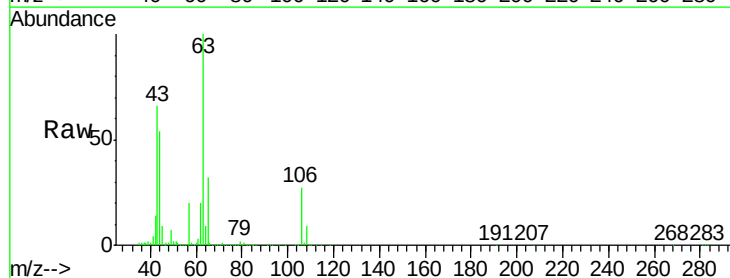
Acq: 12 May 2019 11:14

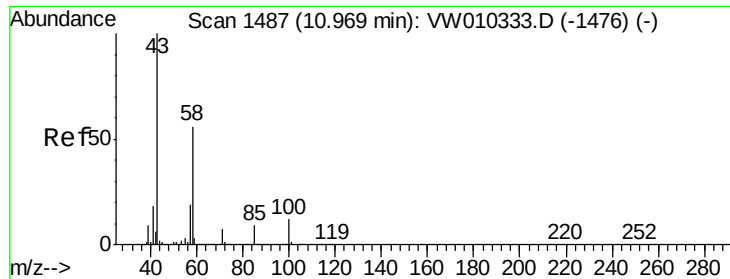
Tgt Ion: 63 Resp: 769650

Ion Ratio Lower Upper

63 100

106 27.0 21.4 32.0





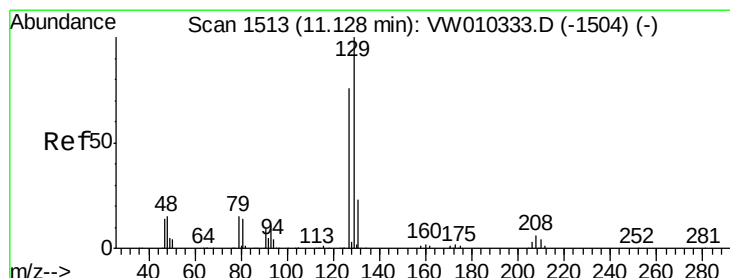
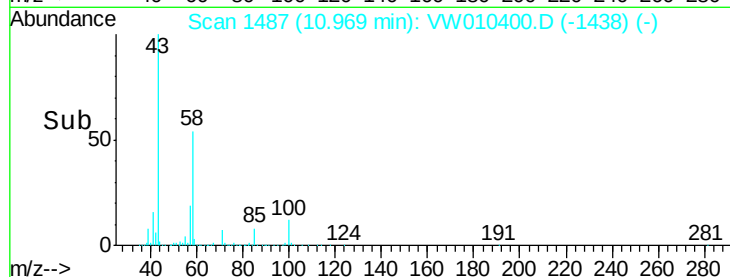
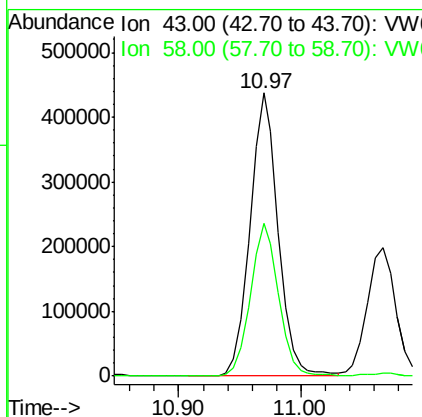
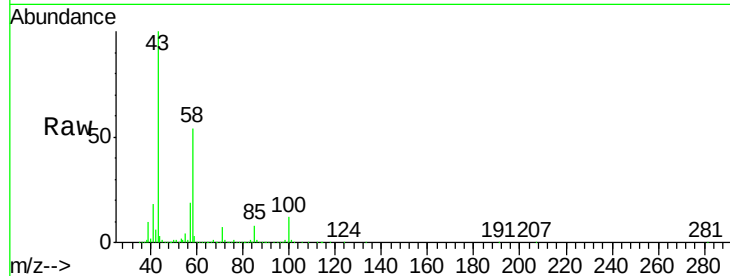
#59
2-Hexanone
Concen: 87.897 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VW010400.D
Acq: 12 May 2019 11:14

Instrument :
MSVOA_W
ClientSampleId :
VW0512SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	53.8	24.9	74.7

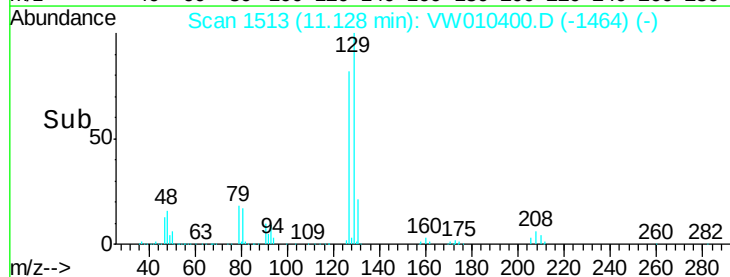
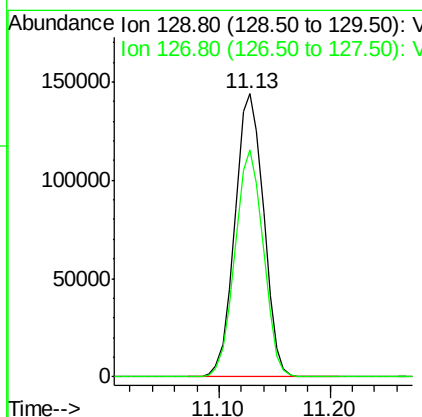
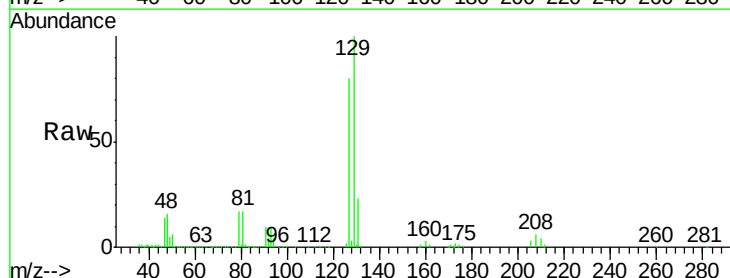
Manual Integrations
APPROVED

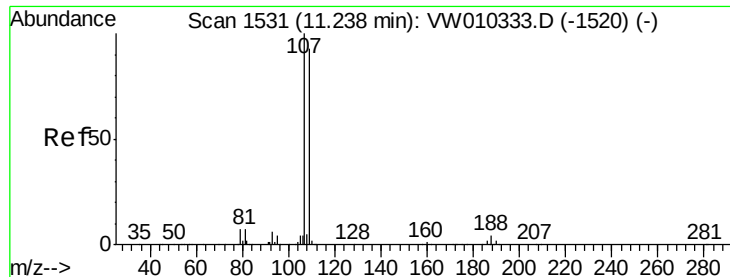
MMDadoda
5/13/2019 12:27:10 PM



#60
Dibromochloromethane
Concen: 21.502 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW010400.D
Acq: 12 May 2019 11:14

Tgt Ion	Ratio	Lower	Upper
129	100		
127	79.0	38.6	116.0





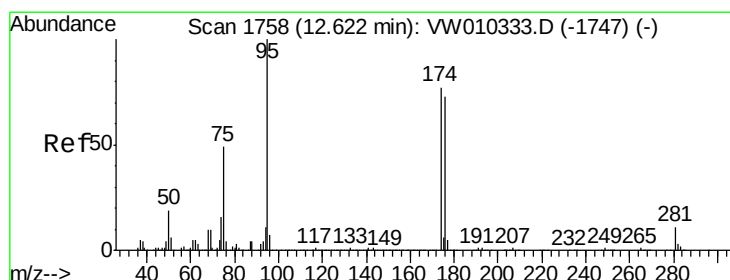
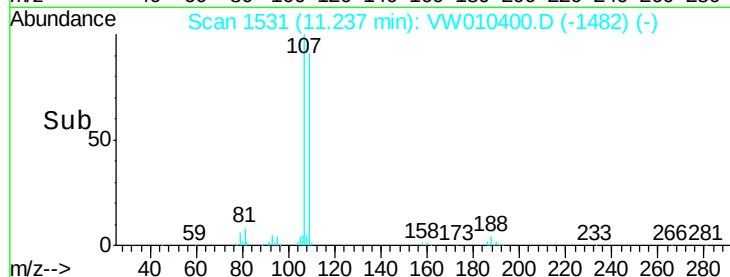
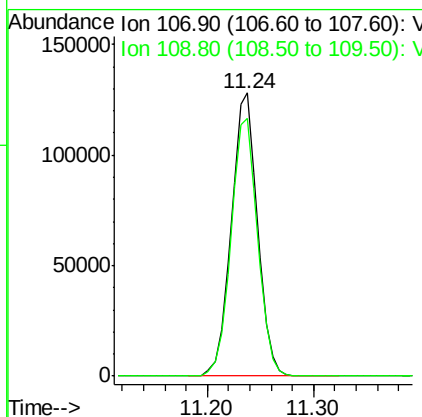
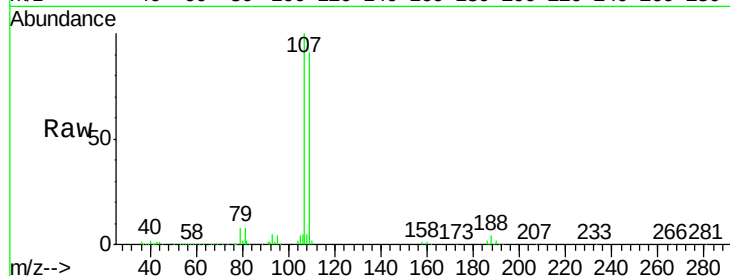
#61
 1,2-Dibromoethane
 Concen: 20.639 ug/l
 RT: 11.24 min Scan# 1531
 Delta R.T. -0.00 min
 Lab File: VW010400.D
 Acq: 12 May 2019 11:14

Instrument :
 MSVOA_W
 ClientSampled :
 VW0512SBS01

Tot Ion	Ratio	Resp	Lower	Upper
107	100	220279		
109	93.1	73.6	110.4	

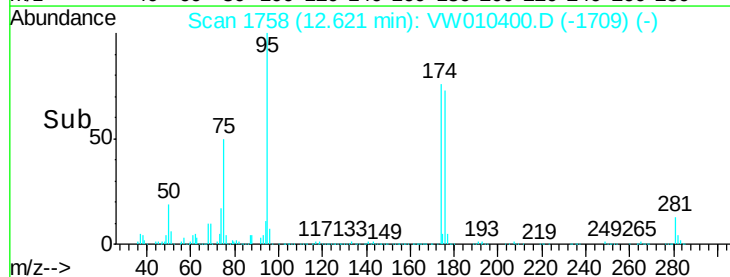
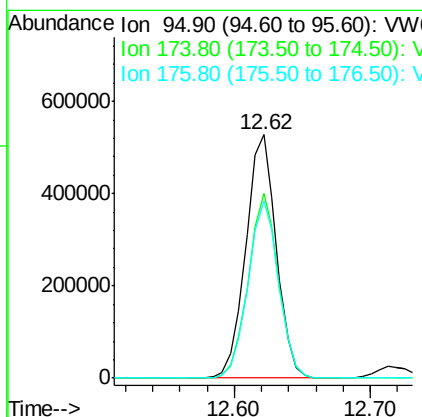
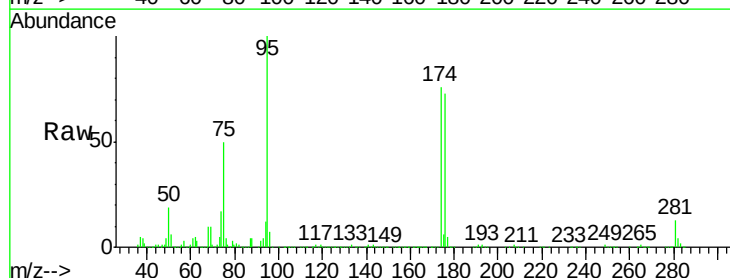
Manual Integrations
 APPROVED

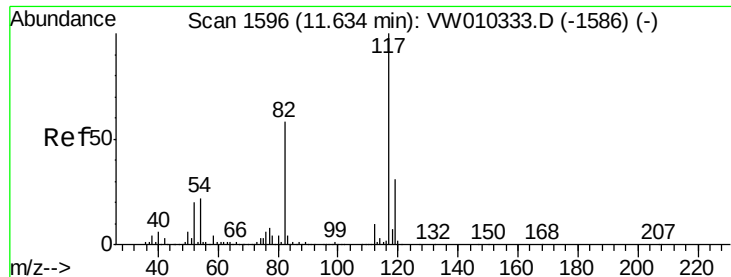
MMDadoda
 5/13/2019 12:27:10 PM



#62
 4-Bromofluorobenzene
 Concen: 47.977 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. -0.00 min
 Lab File: VW010400.D
 Acq: 12 May 2019 11:14

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	826130		
174	75.1	0.0	151.4	
176	72.9	0.0	146.2	





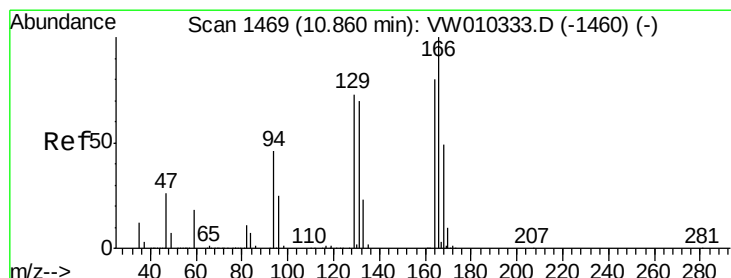
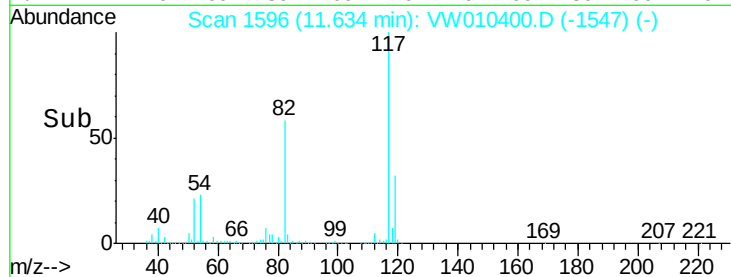
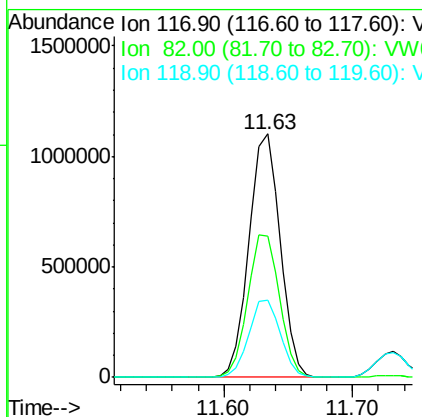
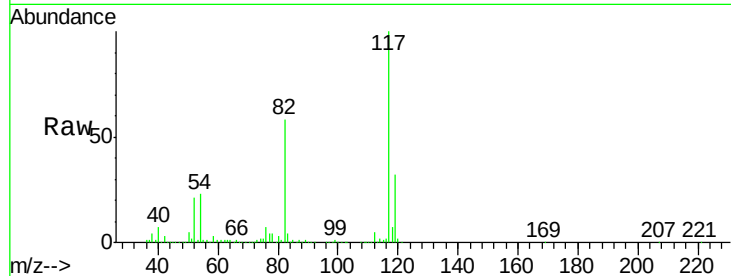
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW010400.D
Acq: 12 May 2019 11:14

Instrument :
MSVOA_W
ClientSampled :
VW0512SBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	58.1	45.2	67.8
119	31.7	25.4	38.2

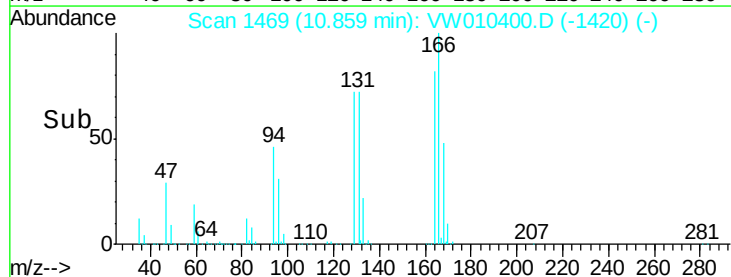
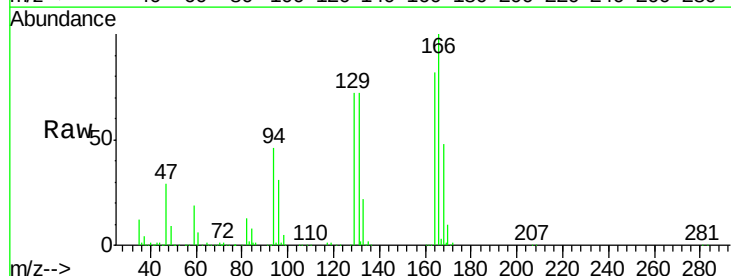
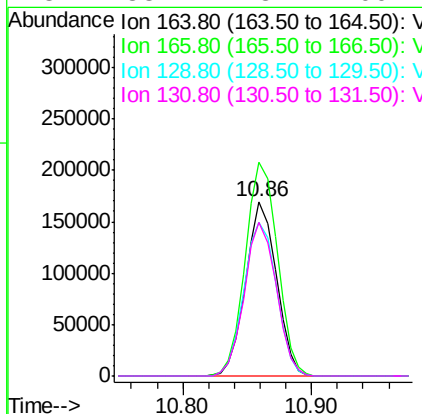
Manual Integrations
APPROVED

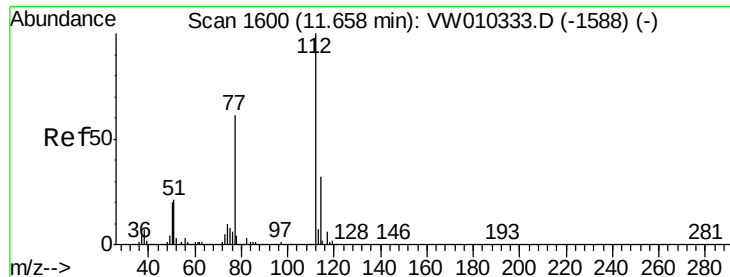
MMDadoda
5/13/2019 12:27:10 PM



#64
Tetrachloroethene
Concen: 21.816 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VW010400.D
Acq: 12 May 2019 11:14

Tgt Ion	Ratio	Lower	Upper
164	100		
166	122.6	101.2	151.8
129	88.5	77.8	116.6
131	88.1	73.1	109.7





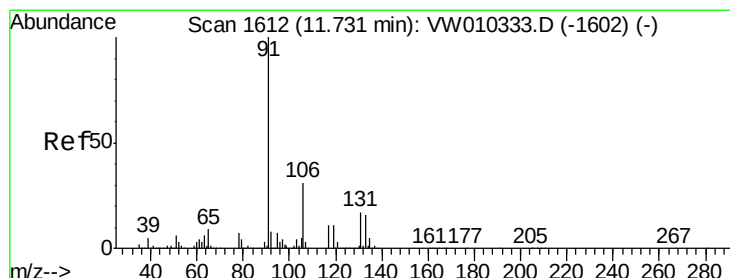
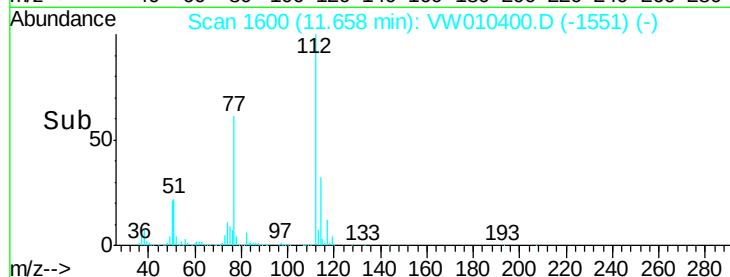
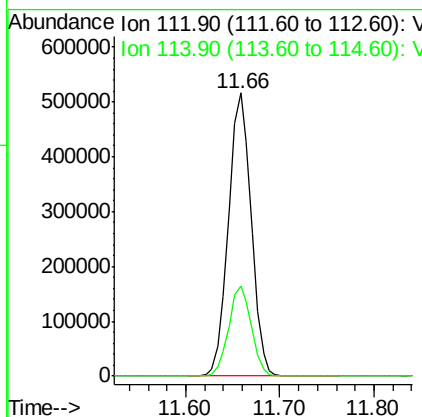
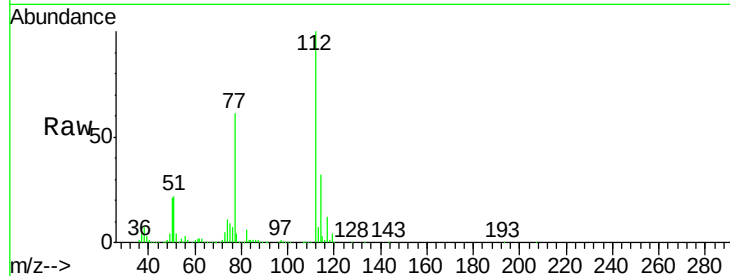
#65
Chlorobenzene
Concen: 22.683 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW010400.D
Acq: 12 May 2019 11:14

Instrument :
MSVOA_W
ClientSampleId :
VW0512SBS01

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.9	26.5	39.7

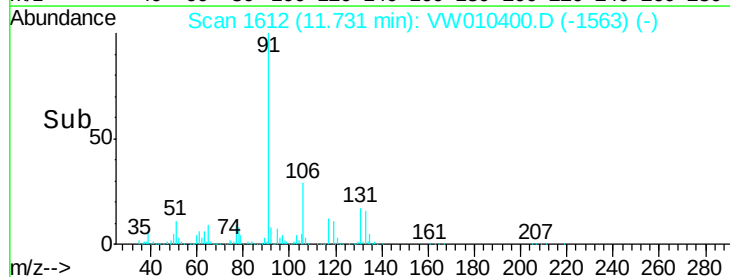
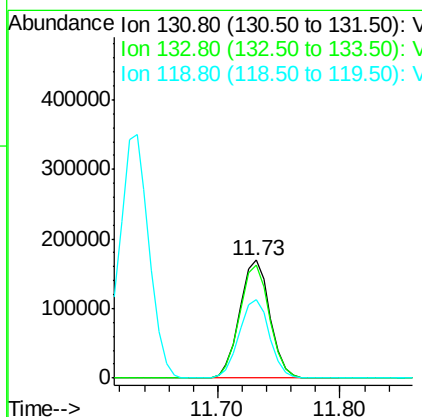
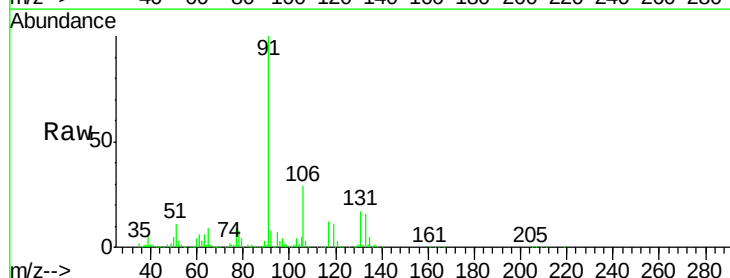
Manual Integrations
APPROVED

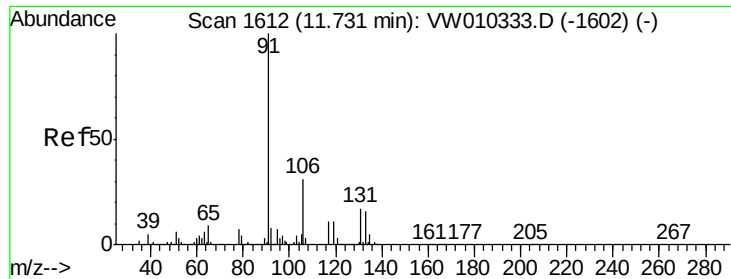
MMDadoda
5/13/2019 12:27:10 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 22.539 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW010400.D
Acq: 12 May 2019 11:14

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.4	46.5	139.5
119	66.6	31.9	95.5





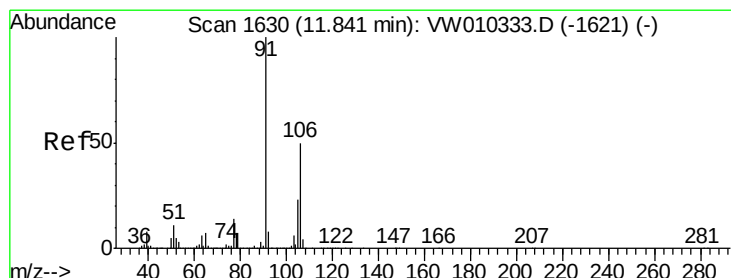
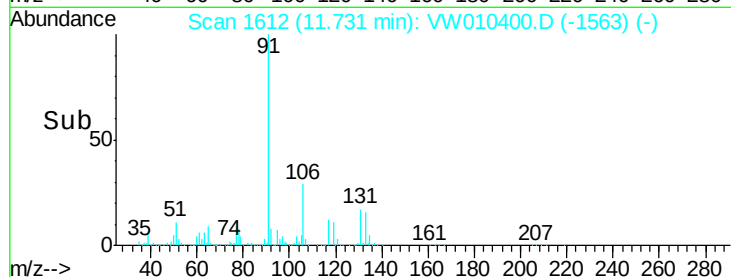
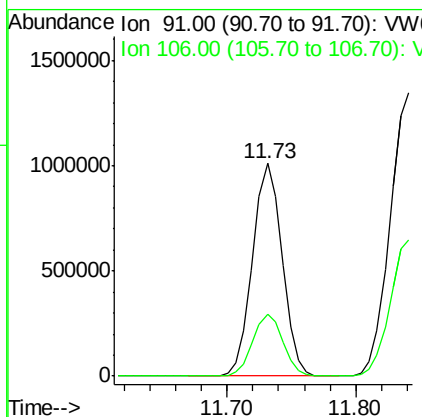
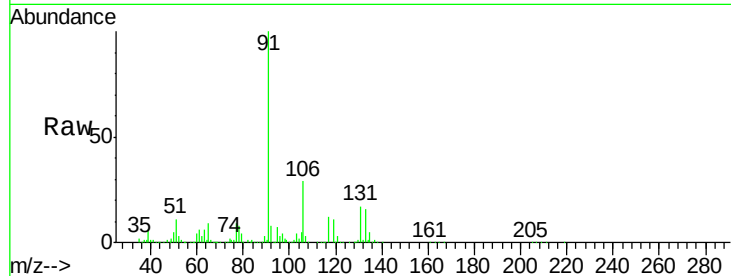
#67
Ethyl Benzene
Concen: 22.855 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW010400.D
Acq: 12 May 2019 11:14

Instrument :
MSVOA_W
ClientSampled :
VW0512SBS01

Tot Ion: 91 Resp: 1600578
Ion Ratio Lower Upper
91 100
106 29.4 23.8 35.8

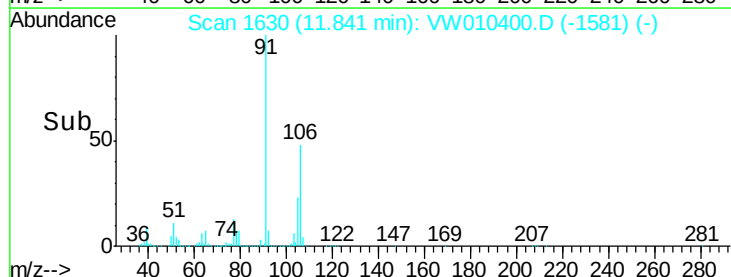
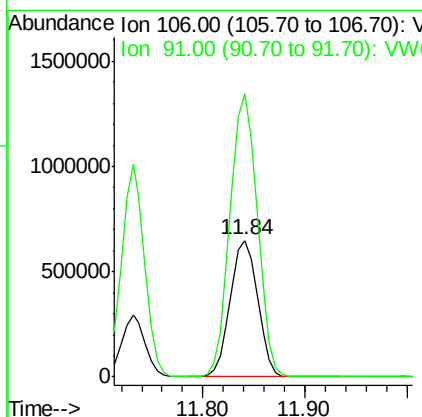
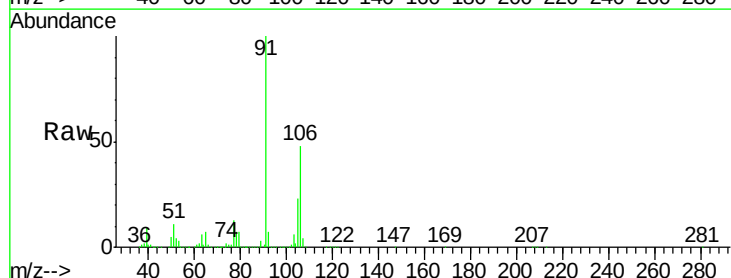
Manual Integrations
APPROVED

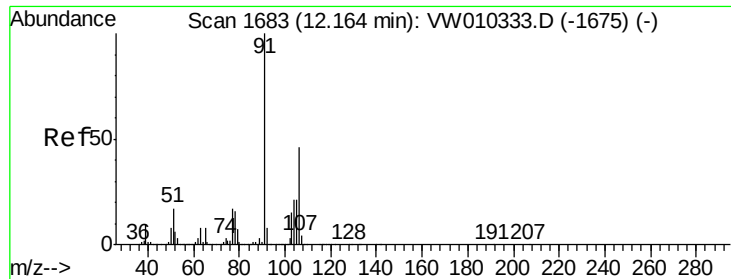
MMDadoda
5/13/2019 12:27:10 PM



#68
m/p-Xylenes
Concen: 46.410 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW010400.D
Acq: 12 May 2019 11:14

Tgt Ion:106 Resp: 1207573
Ion Ratio Lower Upper
106 100
91 206.1 165.0 247.6





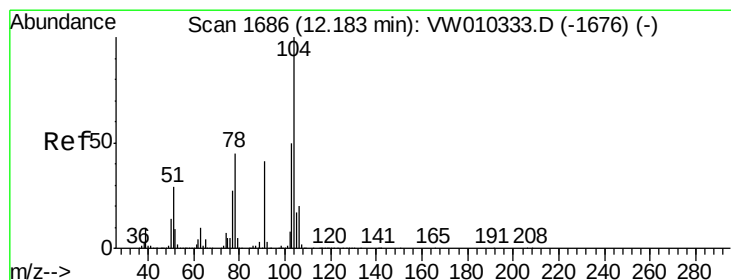
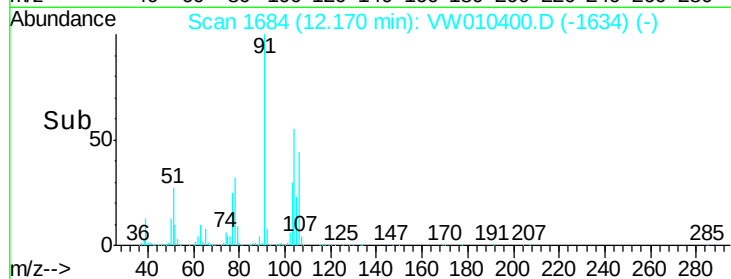
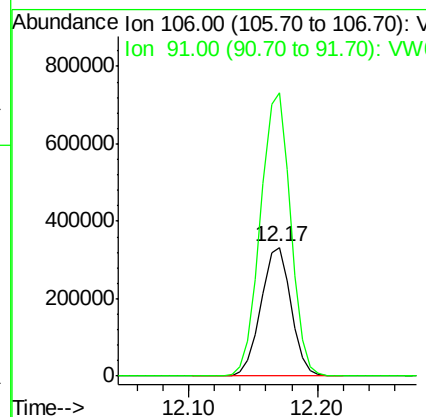
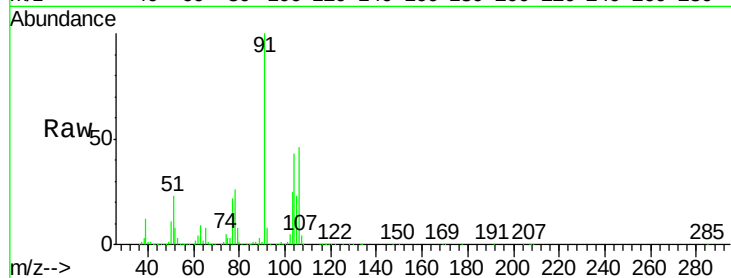
#69
o-Xylene
Concen: 22.748 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. 0.01 min
Lab File: VW010400.D
Acq: 12 May 2019 11:14

Instrument :
MSVOA_W
ClientSampleId :
VW0512SBS01

Tot Ion	Ratio	Lower	Upper
106	100		
91	220.5	110.5	331.4

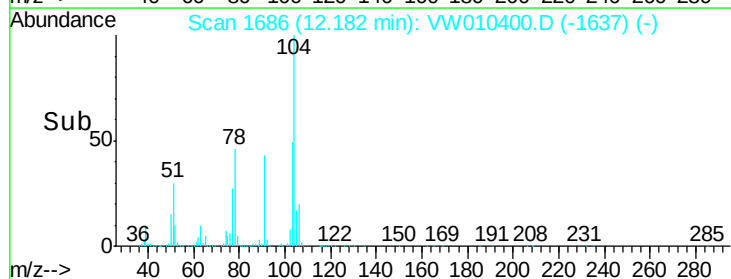
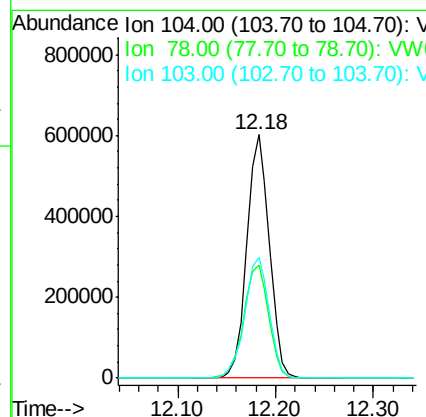
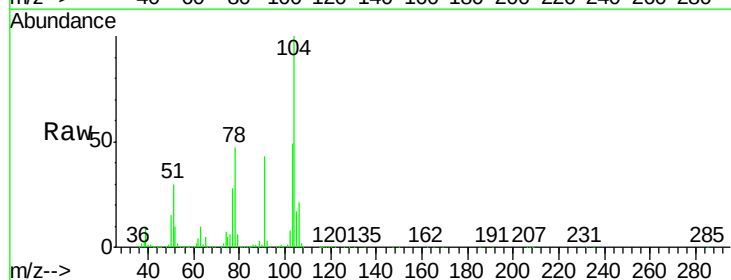
Manual Integrations
APPROVED

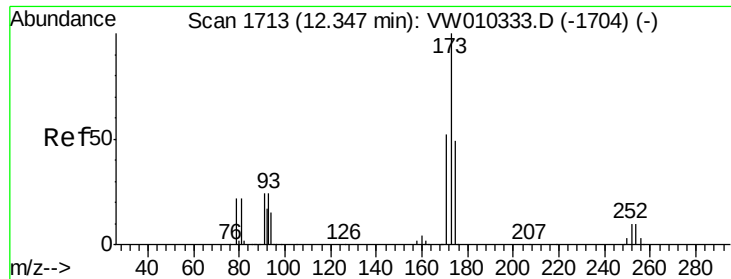
MMDadoda
5/13/2019 12:27:10 PM



#70
Styrene
Concen: 23.414 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VW010400.D
Acq: 12 May 2019 11:14

Tgt Ion	Ratio	Lower	Upper
104	100		
78	51.5	42.5	63.7
103	53.8	43.6	65.4





#71

Bromoform

Concen: 19.688 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

Instrument :

MSVOA_W

ClientSampleId :

VW0512SBS01

Tot Ion:173 Resp: 144806

Ion Ratio Lower Upper

173 100

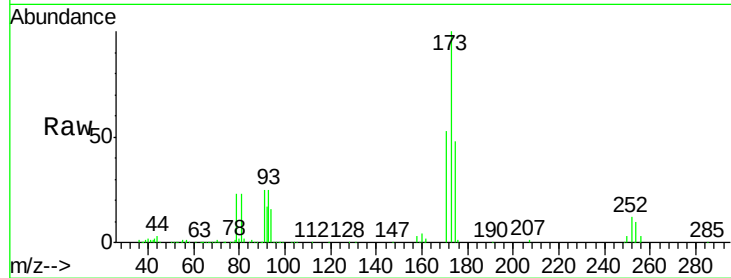
175 48.3 23.8 71.4

254 0.2 0.1 0.1#

Manual Integrations
APPROVED

MMDadoda

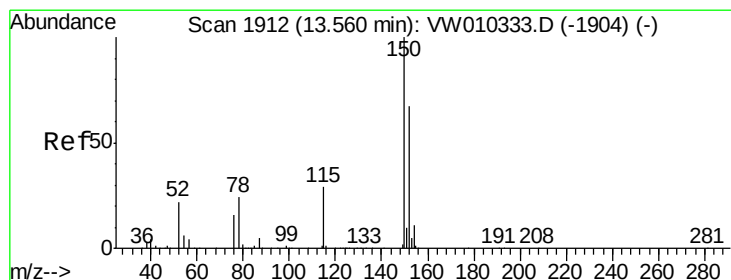
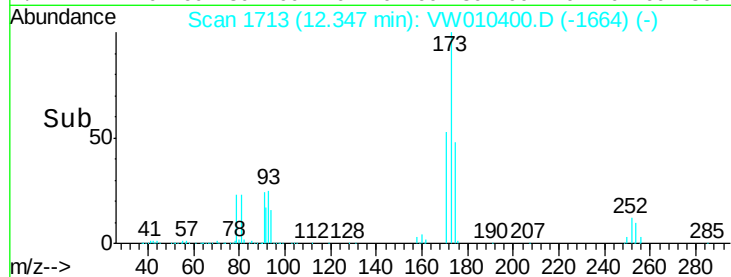
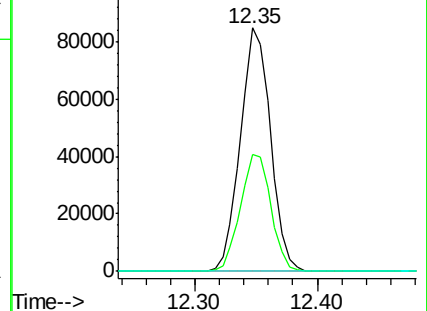
5/13/2019 12:27:10 PM



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: VW010400.D

Acq: 12 May 2019 11:14

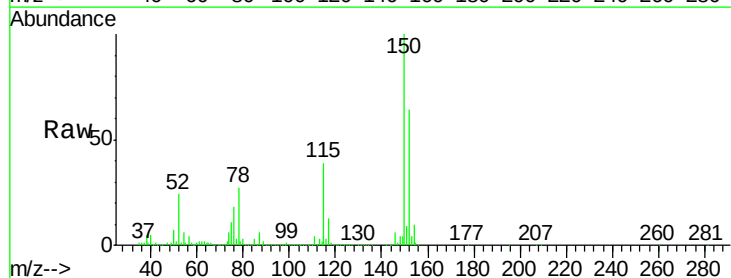
Tgt Ion:152 Resp: 936365

Ion Ratio Lower Upper

152 100

115 59.4 30.4 91.2

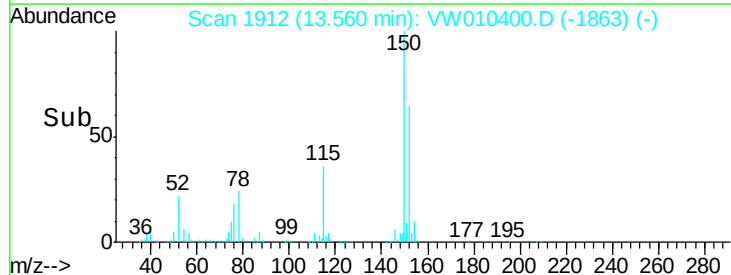
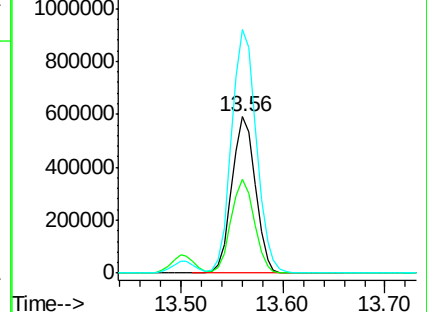
150 164.5 0.0 347.0

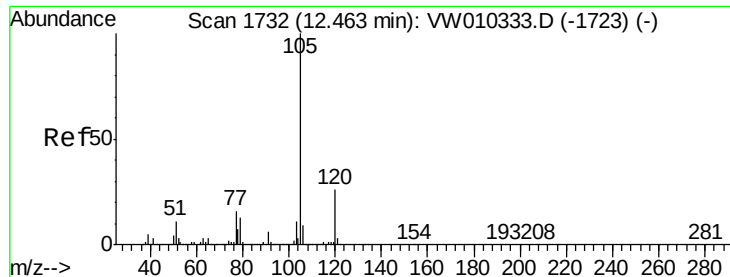


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 22.454 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

Instrument :

MSVOA_W

ClientSampleId :

VW0512SBS01

Tot Ion:105 Resp: 1532549

Ion Ratio Lower Upper

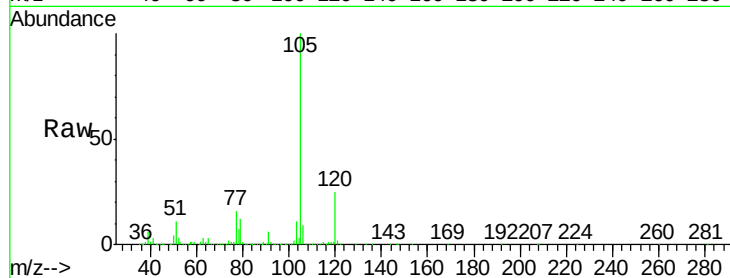
105 100

120 25.9 13.1 39.1

Manual Integrations
APPROVED

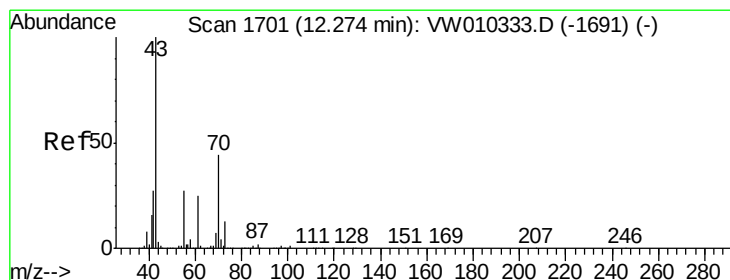
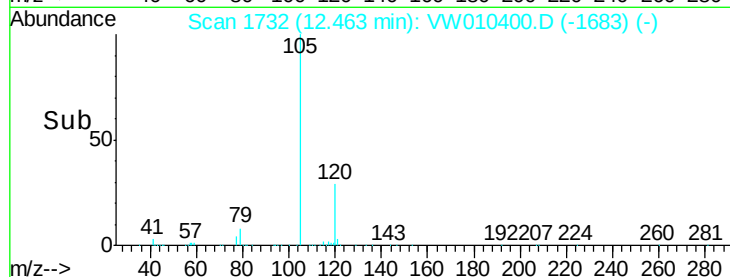
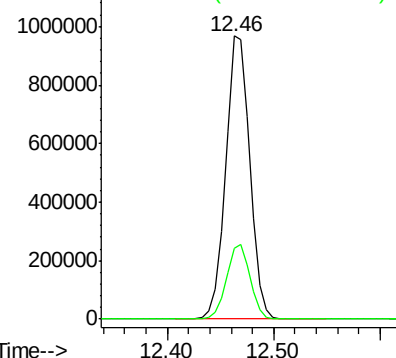
MMDadoda

5/13/2019 12:27:10 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 19.318 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

Tgt Ion: 43 Resp: 340633

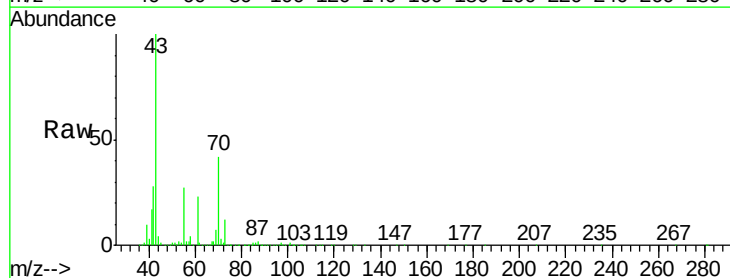
Ion Ratio Lower Upper

43 100

70 43.6 31.3 46.9

55 28.7 20.0 30.0

61 23.9 17.8 26.8

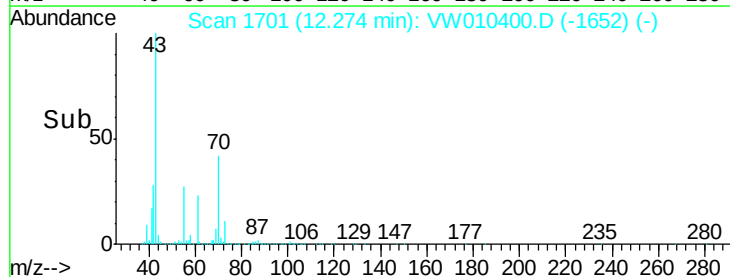
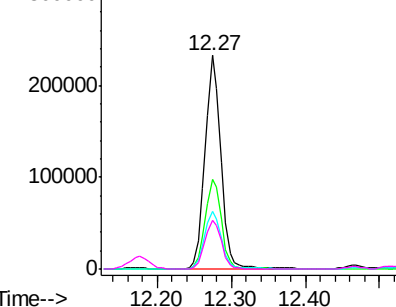


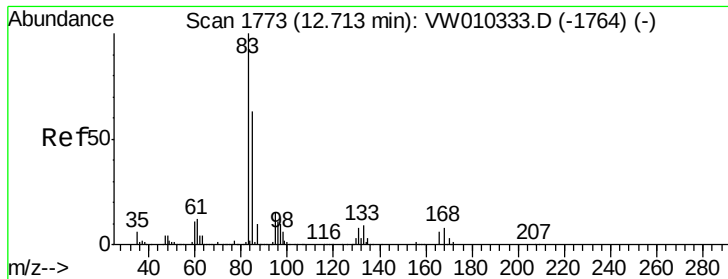
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW





#75

1,1,2,2-Tetrachloroethane

Concen: 18.709 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

Instrument :

MSVOA_W

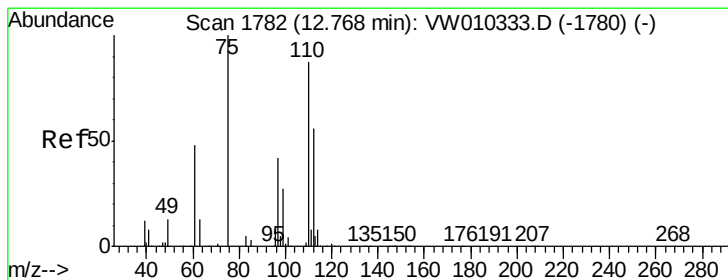
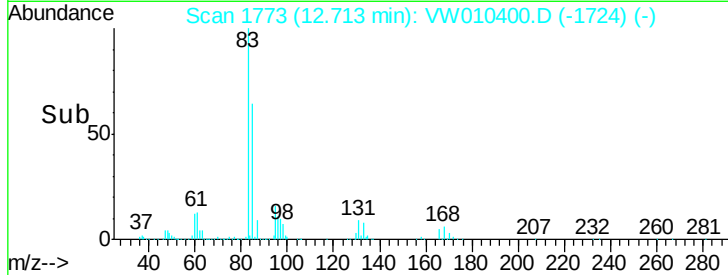
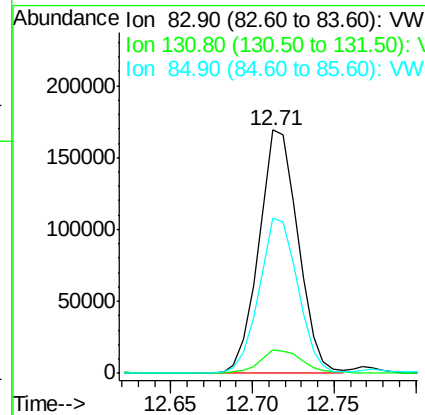
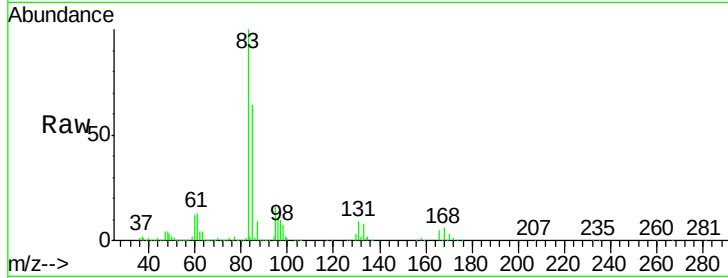
ClientSampleId :

VW0512SBS01

Tot Ion:	83	Resp:	281347
Ion Ratio	Lower	Upper	
83	100		
131	10.5	5.3	15.8
85	63.7	32.0	96.2

Manual Integrations
APPROVED

MMDadoda
5/13/2019 12:27:10 PM



#76

1,2,3-Trichloropropane

Concen: 18.708 ug/l m

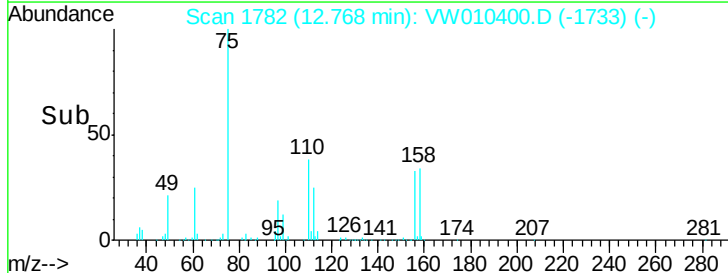
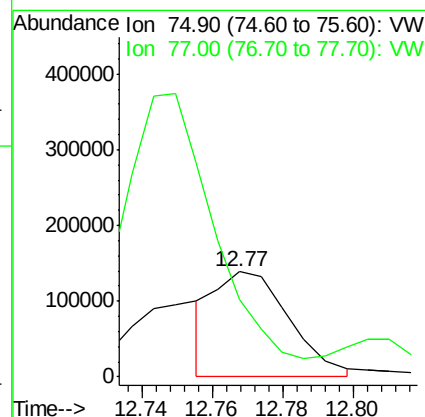
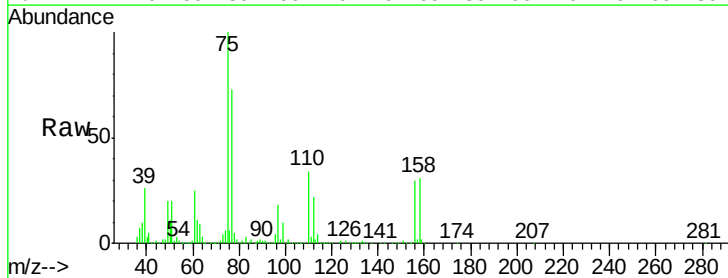
RT: 12.77 min Scan# 1782

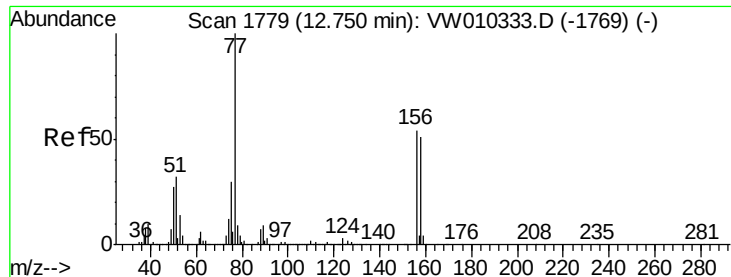
Delta R.T. -0.00 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

Tgt Ion:	75	Resp:	204243
Ion Ratio	Lower	Upper	
75	100		
77	342.6	0.0	0.0#





#77

Bromobenzene

Concen: 22.023 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. -0.00 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

Instrument :

MSVOA_W

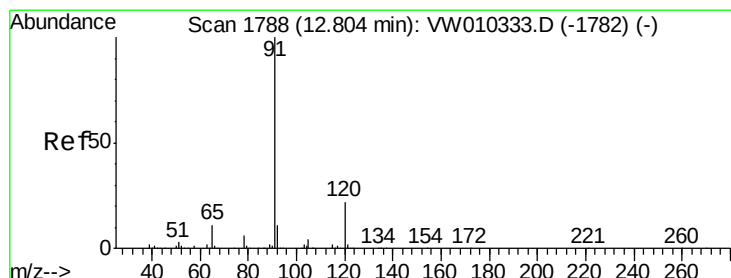
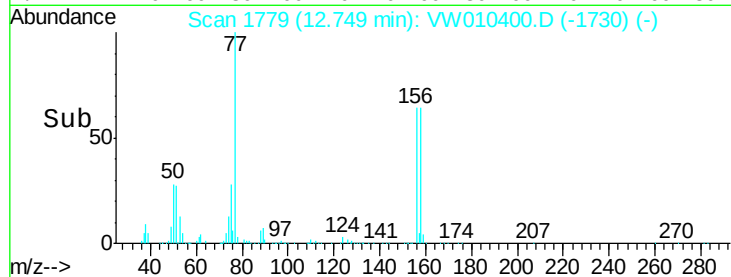
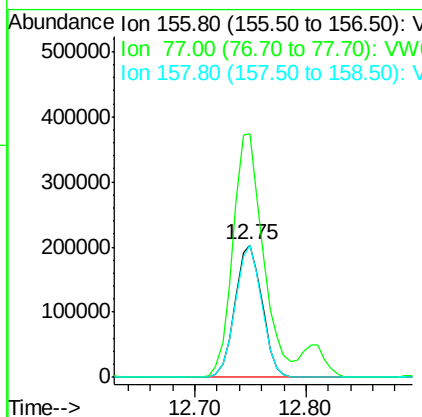
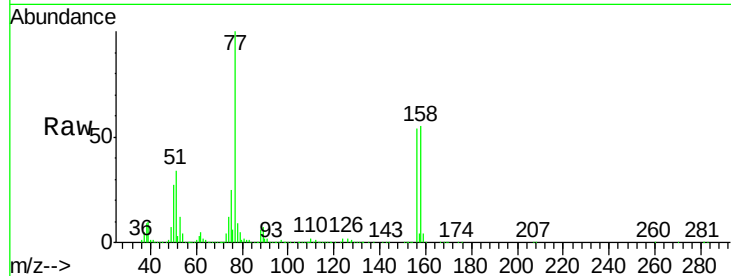
ClientSampleId :

VW0512SBS01

Tot Ion:	156	Resp:	339387
Ion Ratio	Lower	Upper	
156	100		
77	206.2	102.5	307.4
158	98.3	48.8	146.4

Manual Integrations
APPROVED

MMDadoda
5/13/2019 12:27:10 PM



#78

n-propylbenzene

Concen: 22.863 ug/l

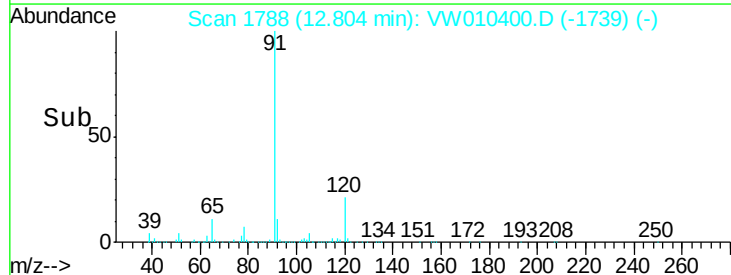
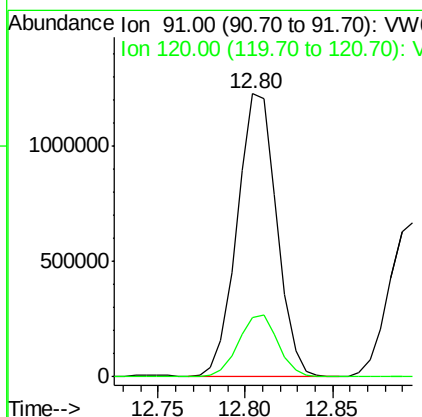
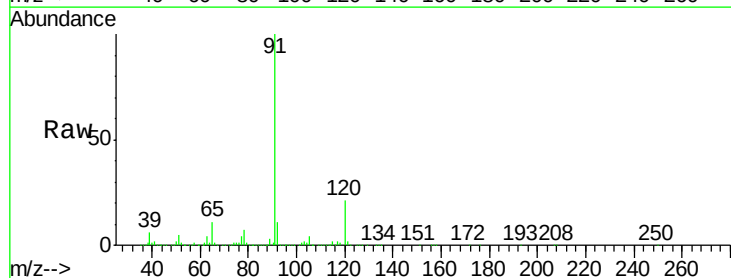
RT: 12.80 min Scan# 1788

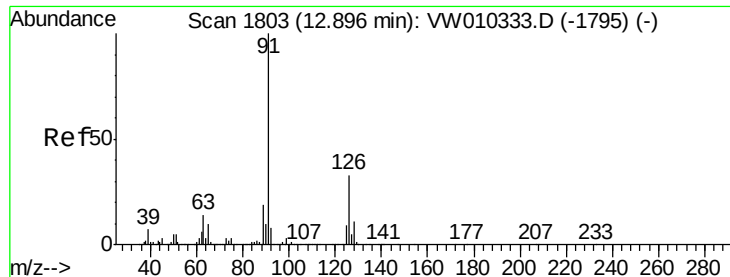
Delta R.T. -0.00 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

Tgt Ion:	91	Resp:	1927298
Ion Ratio	Lower	Upper	
91	100		
120	21.8	11.1	33.1





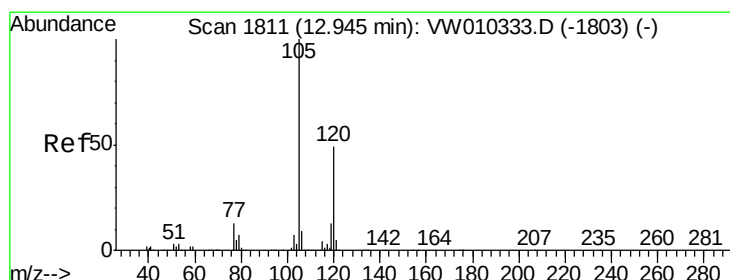
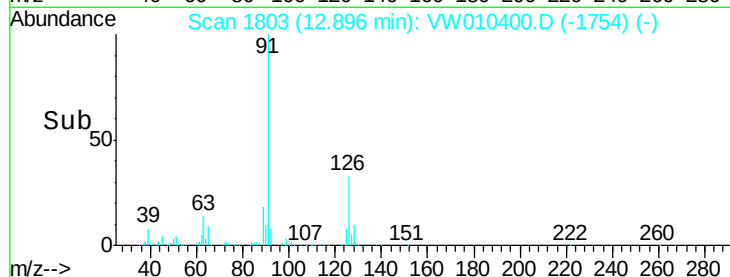
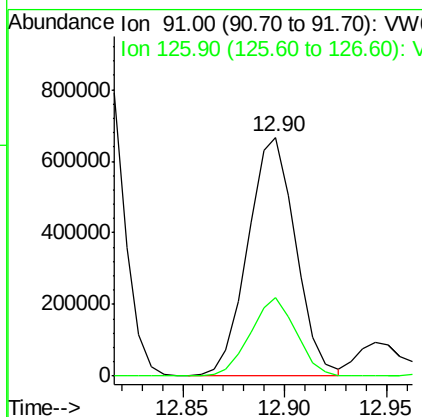
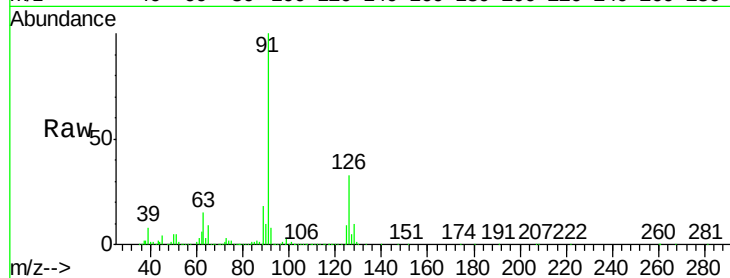
#79
 2-Chlorotoluene
 Concen: 22.599 ug/l
 RT: 12.90 min Scan# 1803
 Delta R.T. -0.00 min
 Lab File: VW010400.D
 Acq: 12 May 2019 11:14

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0512SBS01

Tot Ion: 91 Resp: 1084879
 Ion Ratio Lower Upper
 91 100
 126 31.7 16.3 48.8

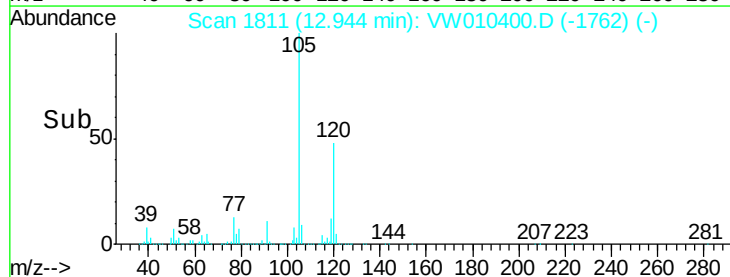
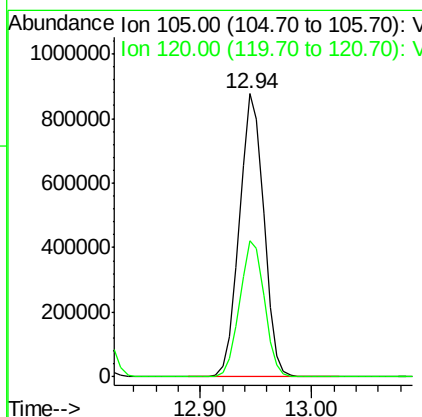
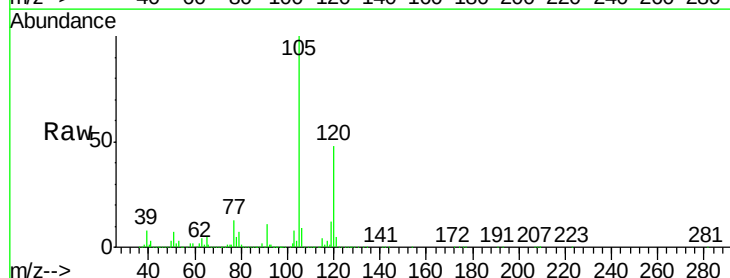
Manual Integrations
 APPROVED

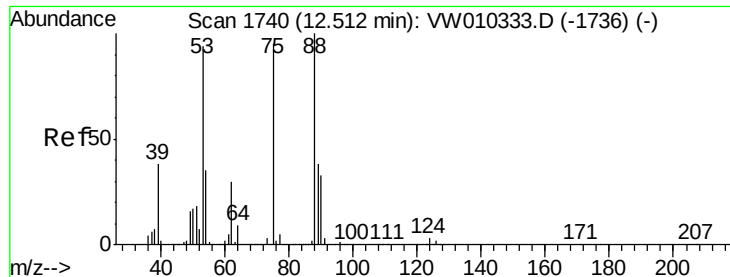
MMDadoda
 5/13/2019 12:27:10 PM



#80
 1,3,5-Trimethylbenzene
 Concen: 23.111 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. -0.00 min
 Lab File: VW010400.D
 Acq: 12 May 2019 11:14

Tgt Ion: 105 Resp: 1329781
 Ion Ratio Lower Upper
 105 100
 120 48.5 24.3 72.8





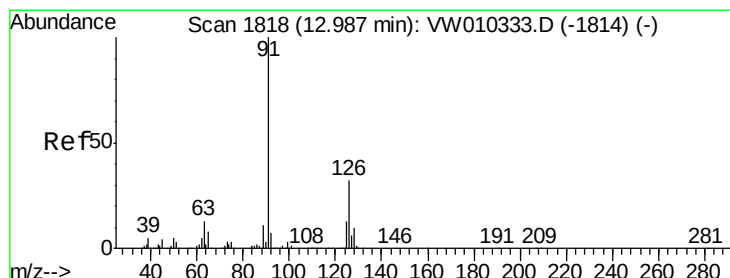
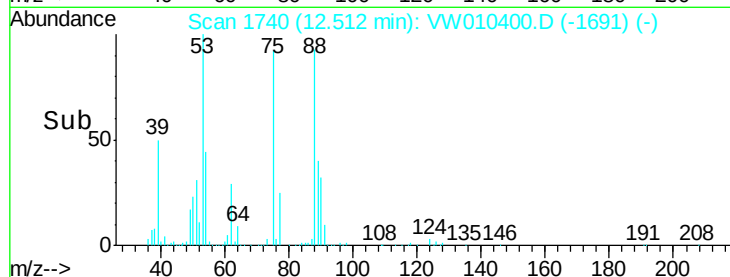
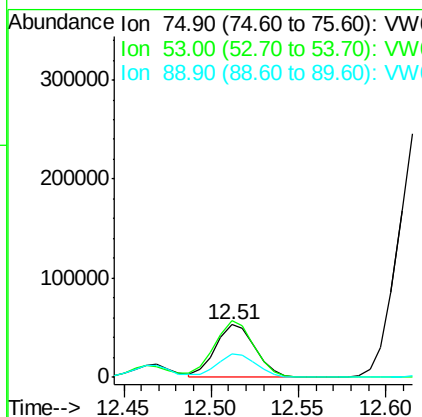
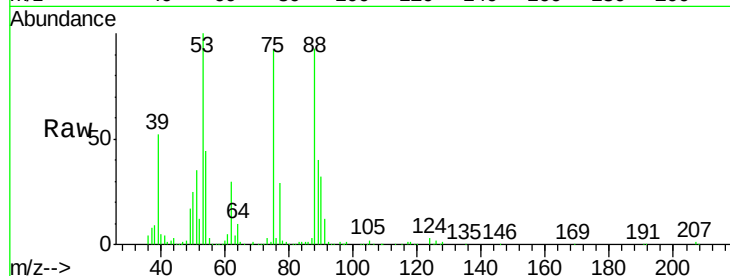
#81
trans-1,4-Dichloro-2-butene
Concen: 17.363 ug/l
RT: 12.51 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VW010400.D
Acq: 12 May 2019 11:14

Instrument :
MSVOA_W
ClientSampleId :
VW0512SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	107.2	89.8	134.8
89	44.2	36.6	54.8

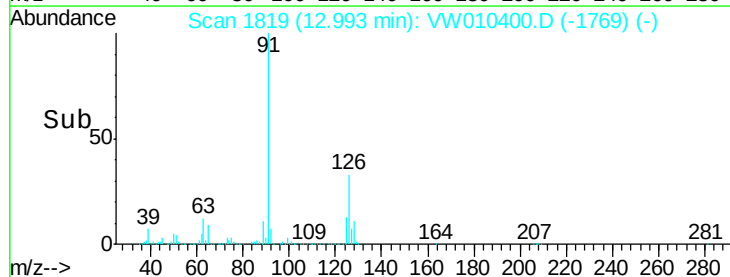
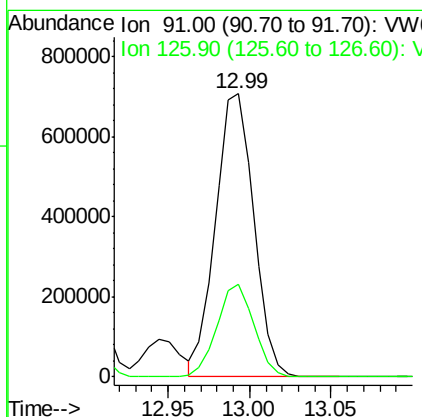
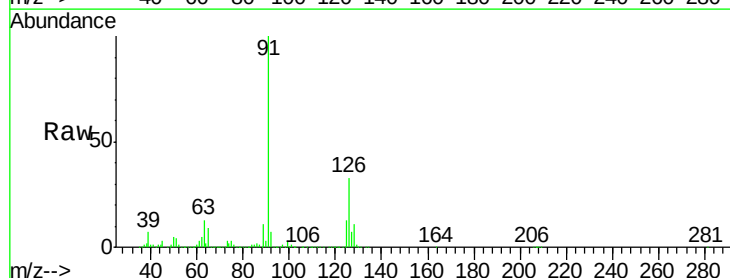
Manual Integrations
APPROVED

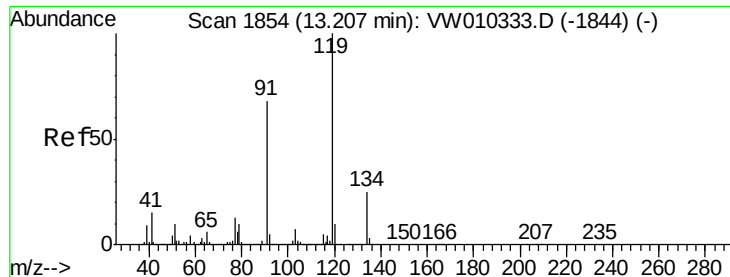
MMDadoda
5/13/2019 12:27:10 PM



#82
4-Chlorotoluene
Concen: 22.930 ug/l
RT: 12.99 min Scan# 1819
Delta R.T. 0.01 min
Lab File: VW010400.D
Acq: 12 May 2019 11:14

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.9	16.4	49.1





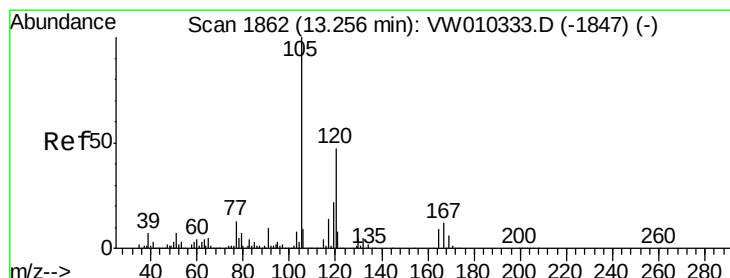
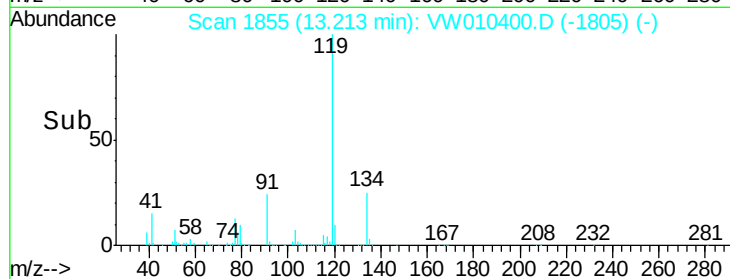
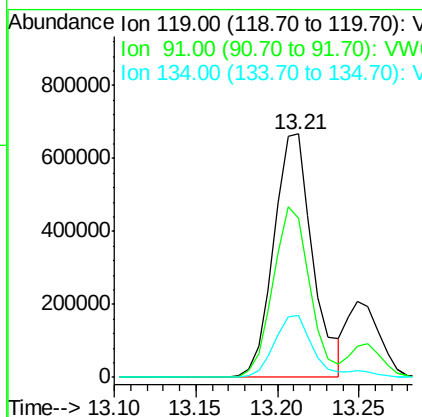
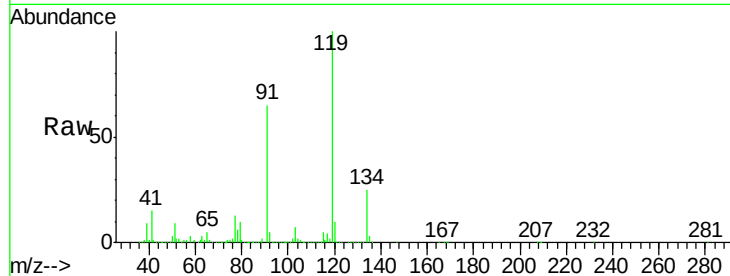
#83
tert-Butylbenzene
Concen: 23.122 ug/l
RT: 13.21 min Scan# 1855
Delta R.T. 0.01 min
Lab File: VW010400.D
Acq: 12 May 2019 11:14

Instrument :
MSVOA_W
ClientSampleId :
VW0512SBS01

Tot Ion:119 Resp: 1109709
Ion Ratio Lower Upper
119 100
91 66.5 34.8 104.4
134 26.4 13.7 41.1

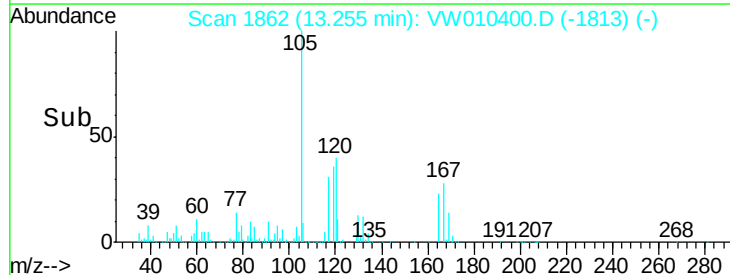
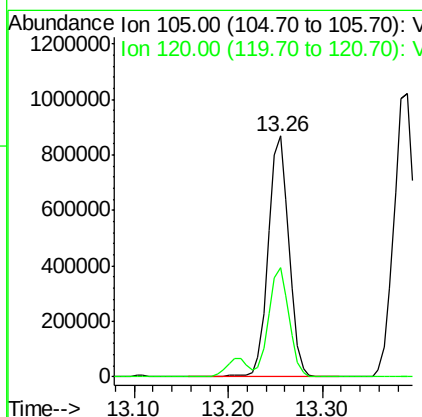
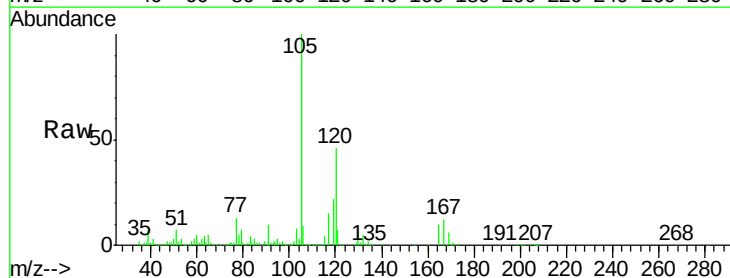
Manual Integrations
APPROVED

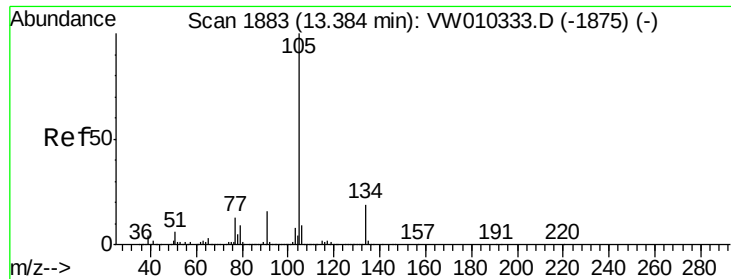
MMDadoda
5/13/2019 12:27:10 PM



#84
1,2,4-Trimethylbenzene
Concen: 23.395 ug/l
RT: 13.26 min Scan# 1862
Delta R.T. -0.00 min
Lab File: VW010400.D
Acq: 12 May 2019 11:14

Tgt Ion:105 Resp: 1337692
Ion Ratio Lower Upper
105 100
120 44.7 22.6 67.7





#85

sec-Butylbenzene

Concen: 22.510 ug/l

RT: 13.39 min Scan# 1884

Delta R.T. 0.01 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

Instrument :

MSVOA_W

ClientSampled :

VW0512SBS01

Tot Ion:105 Resp: 1594831

Ion Ratio Lower Upper

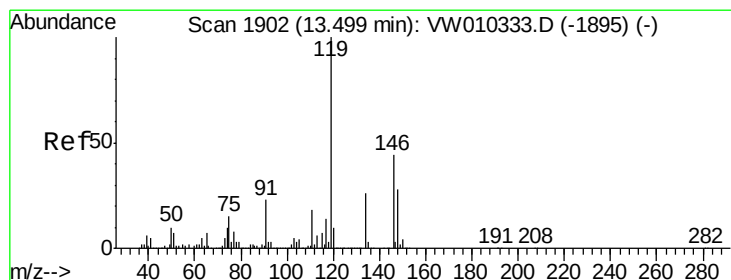
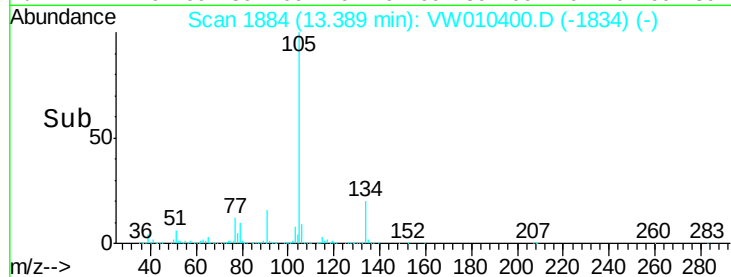
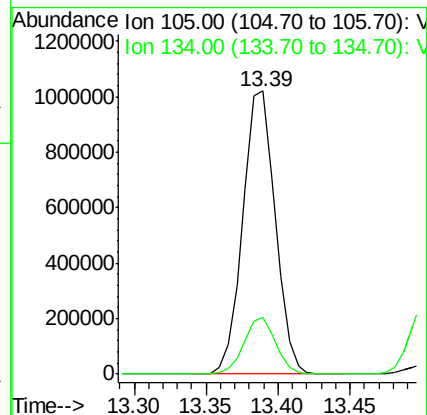
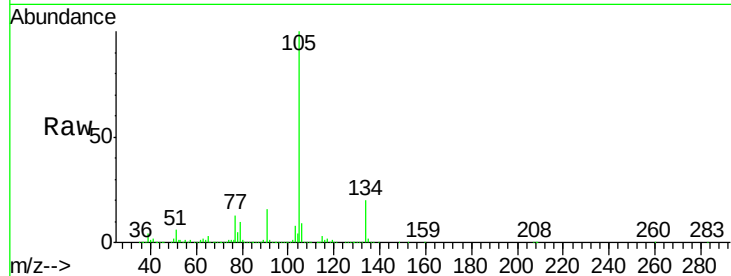
105 100

134 19.5 9.8 29.5

Manual Integrations
APPROVED

MMDadoda

5/13/2019 12:27:10 PM



#86

p-Isopropyltoluene

Concen: 22.955 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

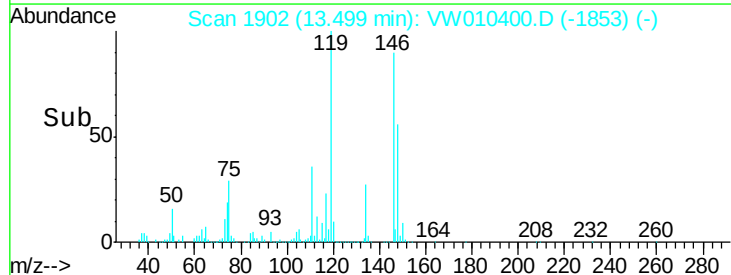
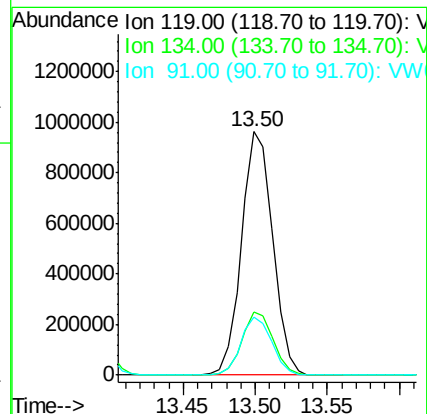
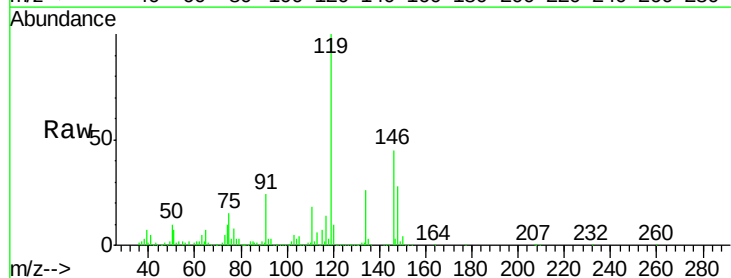
Tgt Ion:119 Resp: 1443967

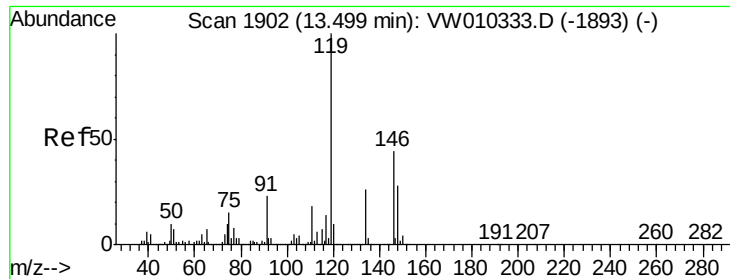
Ion Ratio Lower Upper

119 100

134 25.8 13.0 38.9

91 23.8 12.3 36.9





#87

1,3-Dichlorobenzene

Concen: 22.574 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

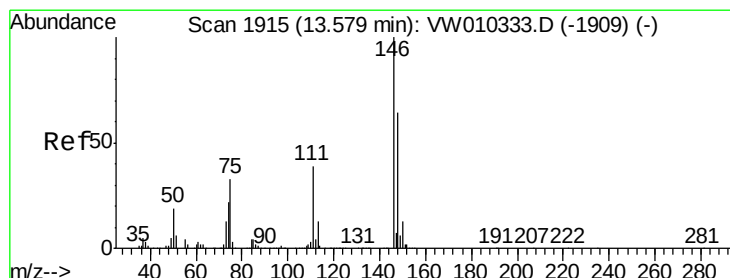
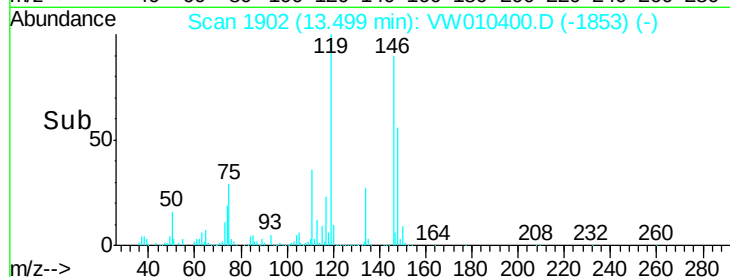
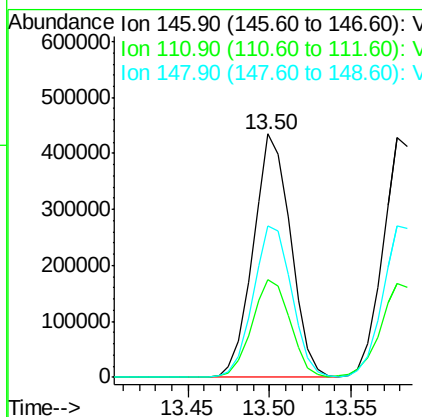
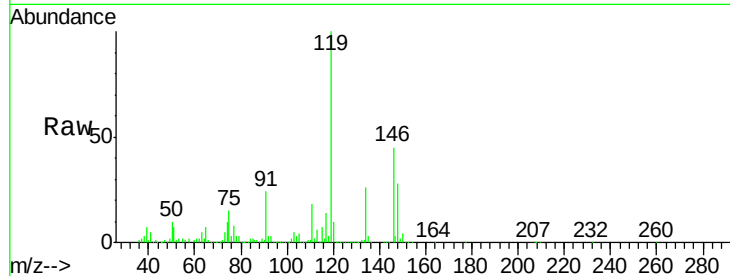
Instrument :
MSVOA_W

ClientSampleId :
VW0512SBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	694664		
111	41.1	20.3	61.0	
148	63.9	32.0	96.2	

Manual Integrations
APPROVED

MMDadoda
5/13/2019 12:27:10 PM



#88

1,4-Dichlorobenzene

Concen: 22.535 ug/l

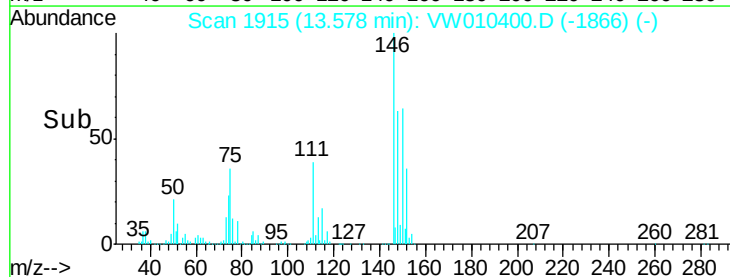
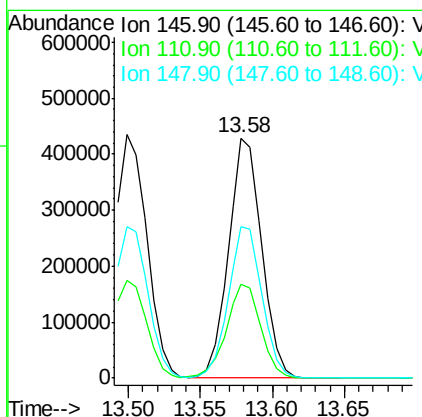
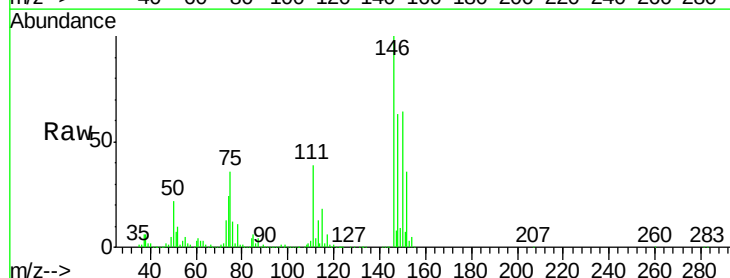
RT: 13.58 min Scan# 1915

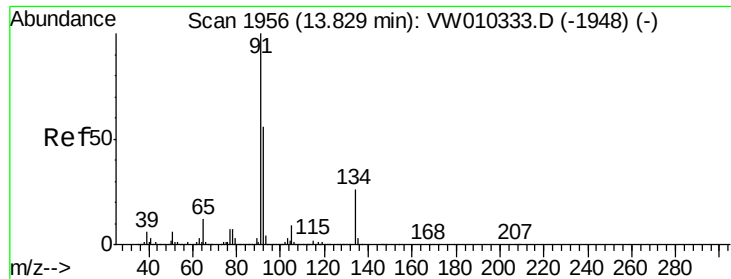
Delta R.T. -0.00 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	688203		
111	40.8	20.1	60.3	
148	64.0	31.8	95.3	





#89

n-Butylbenzene

Concen: 22.606 ug/l

RT: 13.83 min Scan# 1956

Delta R.T. -0.00 min

Lab File: VW010400.D

Acq: 12 May 2019 11:14

Instrument :

MSVOA_W

ClientSampleId :

VW0512SBS01

Tot Ion: 91 Resp: 1425865

Ion Ratio Lower Upper

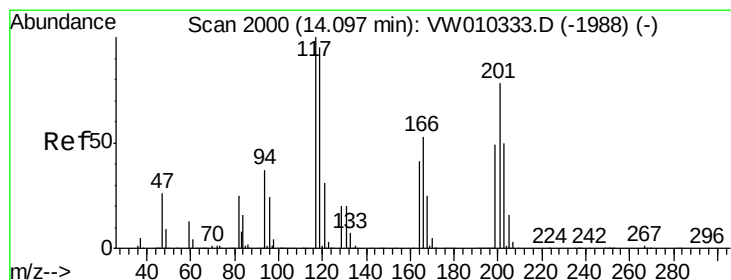
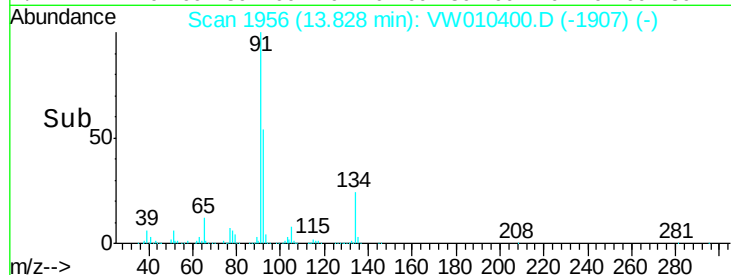
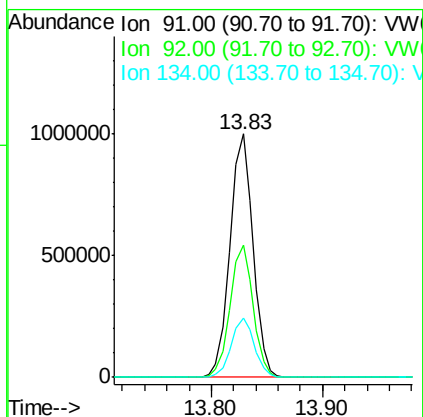
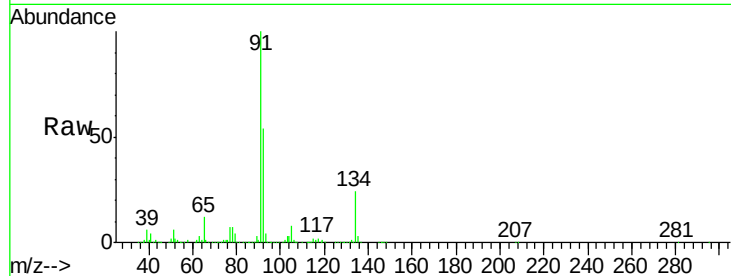
91 100

92 54.4 26.5 79.4

134 24.7 12.4 37.0

Manual Integrations
APPROVED

MMDadoda
5/13/2019 12:27:10 PM



#90

Hexachloroethane

Concen: 21.297 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. -0.00 min

Lab File: VW010400.D

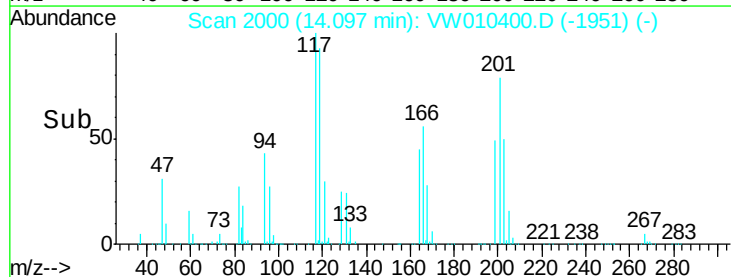
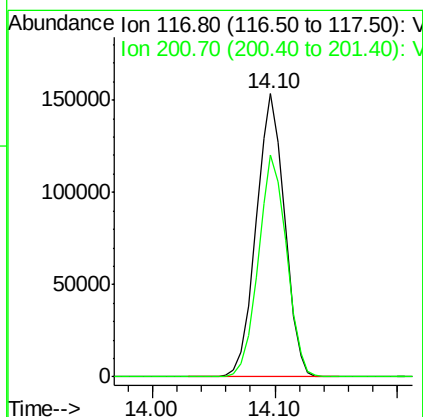
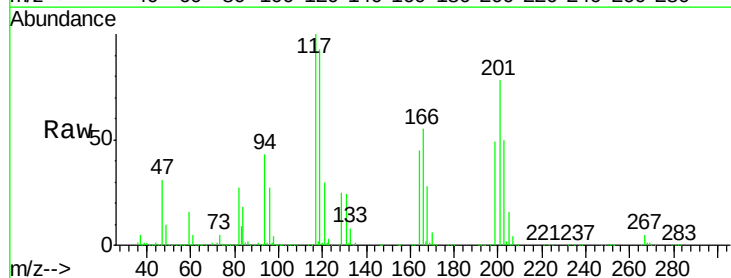
Acq: 12 May 2019 11:14

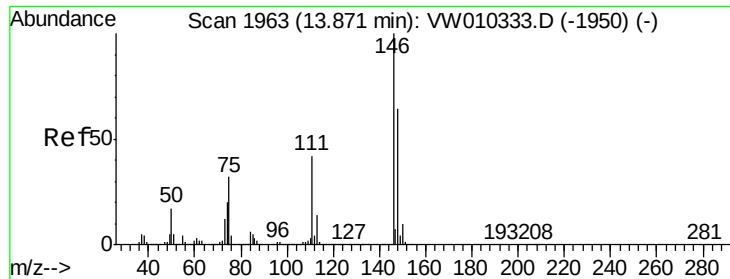
Tgt Ion: 117 Resp: 248478

Ion Ratio Lower Upper

117 100

201 78.1 36.1 108.3





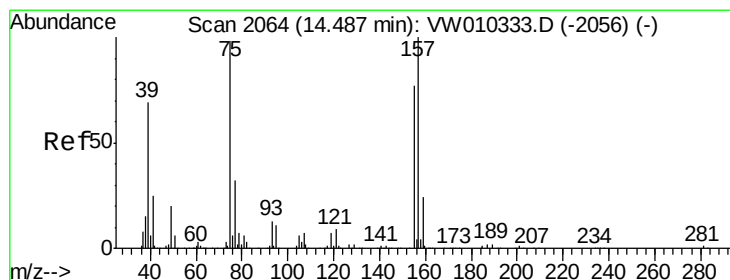
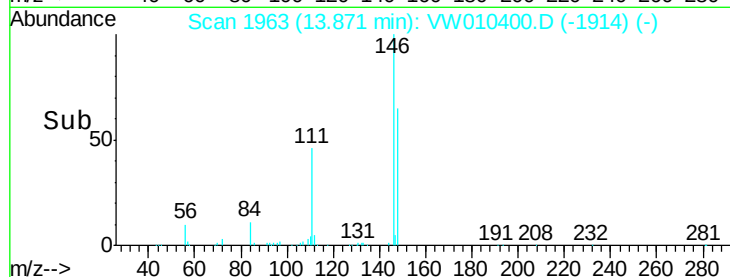
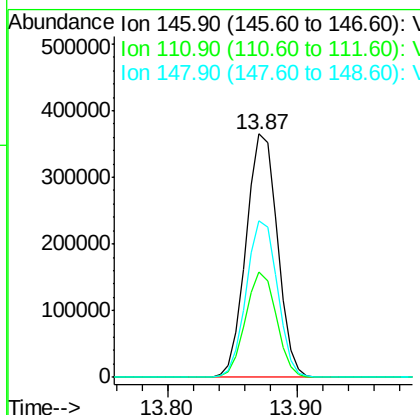
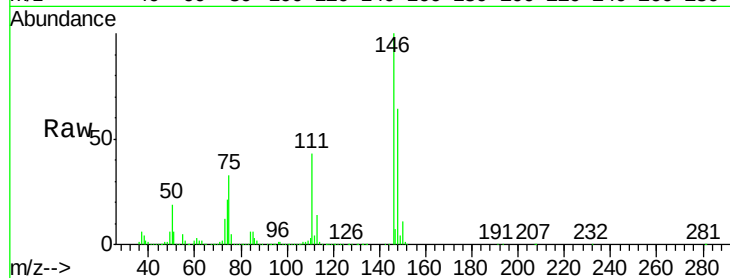
#91
 1,2-Dichlorobenzene
 Concen: 22.445 ug/l
 RT: 13.87 min Scan# 1963
 Delta R.T. -0.00 min
 Lab File: VW010400.D
 Acq: 12 May 2019 11:14

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0512SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.5	20.9	62.8
148	64.0	31.9	95.7

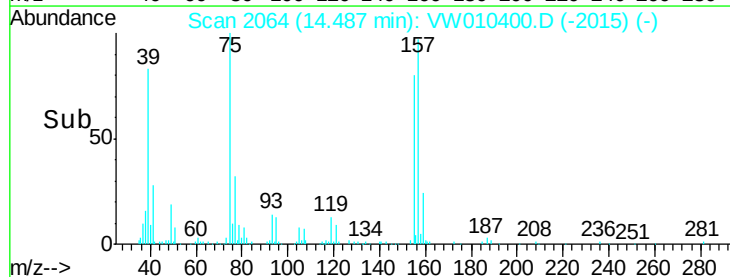
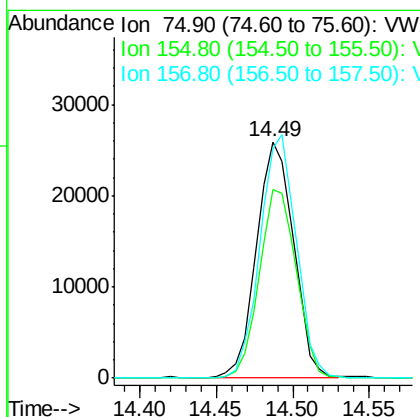
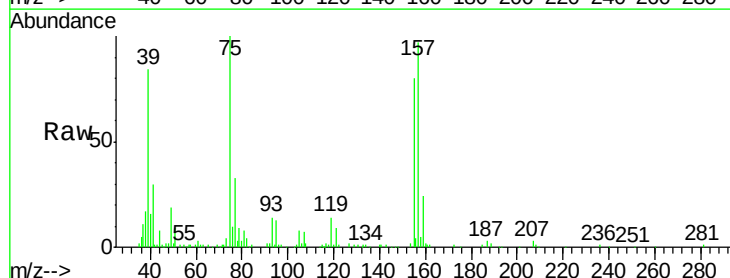
Manual Integrations
 APPROVED

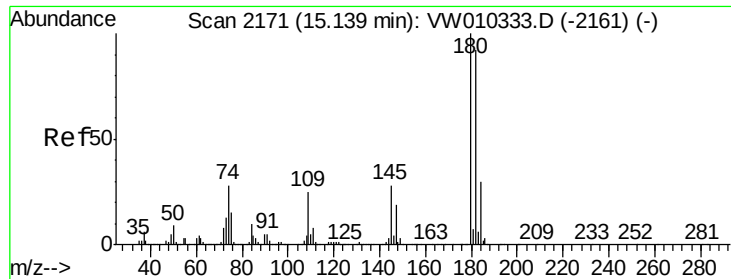
MMDadoda
 5/13/2019 12:27:10 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 16.250 ug/l
 RT: 14.49 min Scan# 2064
 Delta R.T. -0.00 min
 Lab File: VW010400.D
 Acq: 12 May 2019 11:14

Tgt Ion	Ratio	Lower	Upper
75	100		
155	79.6	37.1	111.5
157	100.4	47.3	141.9





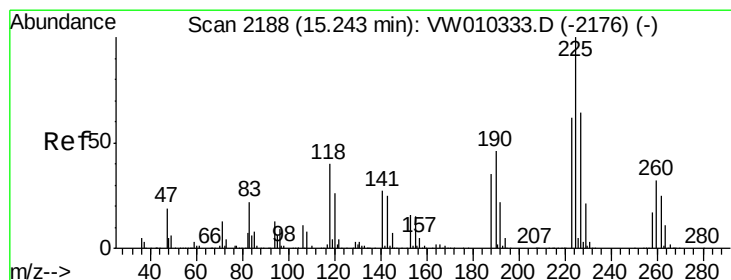
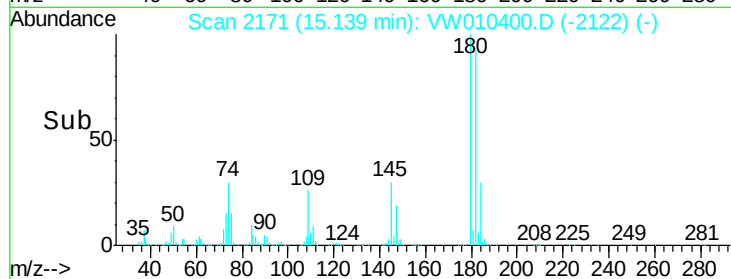
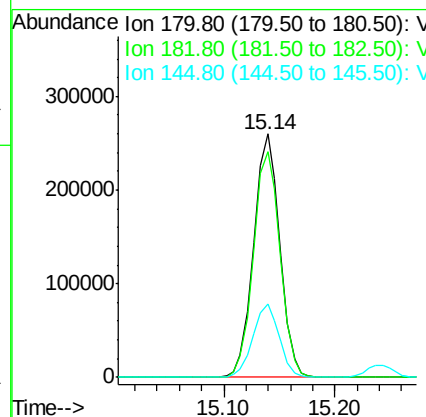
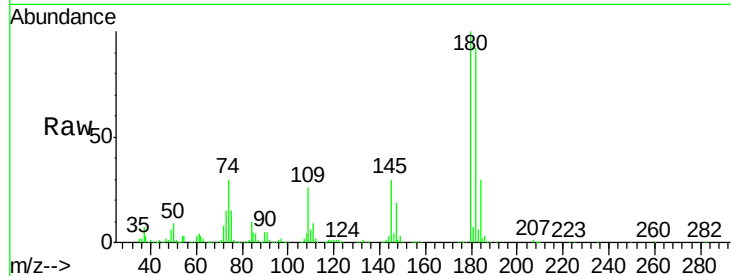
#93
 1,2,4-Trichlorobenzene
 Concen: 22.806 ug/l
 RT: 15.14 min Scan# 2171
 Delta R.T. -0.00 min
 Lab File: VW010400.D
 Acq: 12 May 2019 11:14

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0512SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	423999		
182	94.7	47.1	141.4	
145	30.4	15.2	45.6	

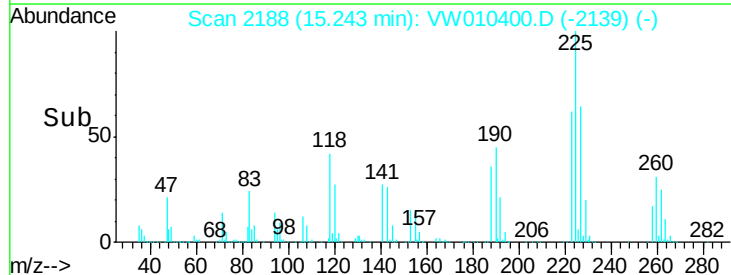
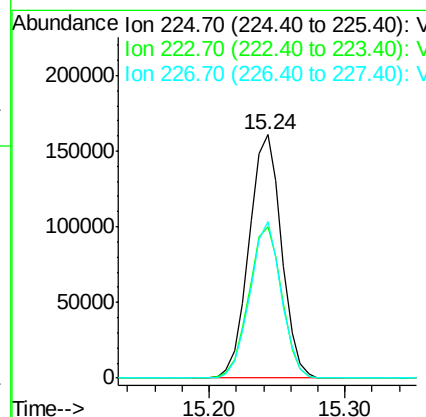
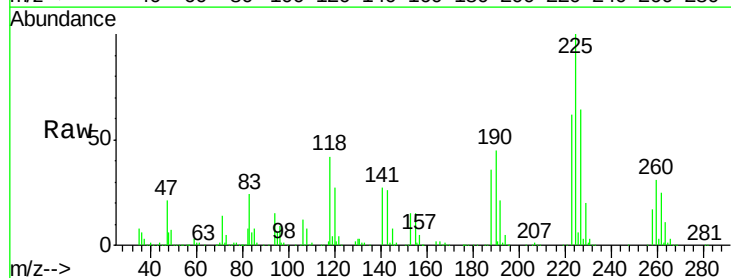
Manual Integrations
 APPROVED

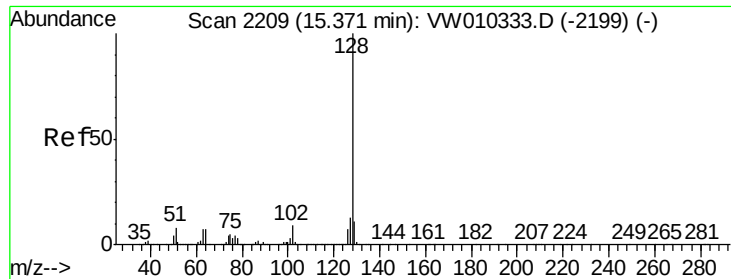
MMDadoda
 5/13/2019 12:27:10 PM



#94
 Hexachlorobutadiene
 Concen: 22.602 ug/l
 RT: 15.24 min Scan# 2188
 Delta R.T. -0.00 min
 Lab File: VW010400.D
 Acq: 12 May 2019 11:14

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	269385		
223	62.9	31.9	95.5	
227	61.8	31.8	95.3	





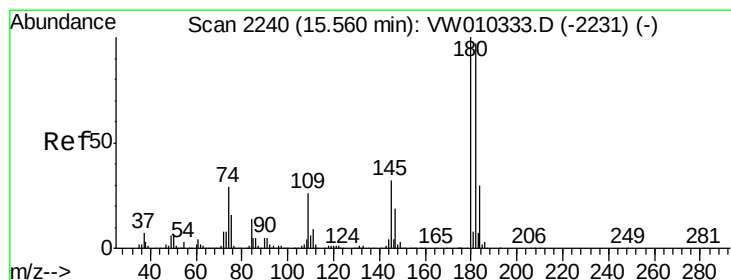
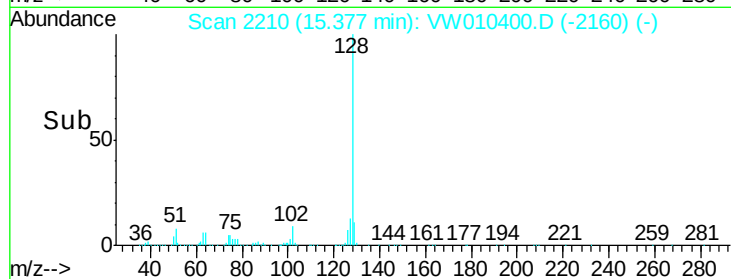
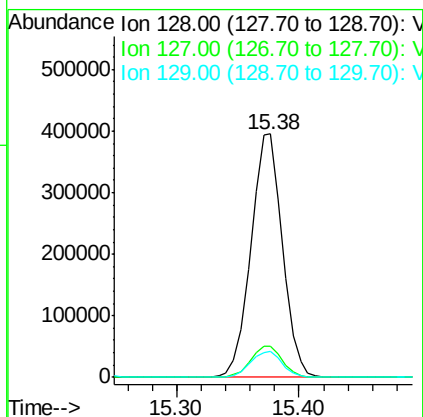
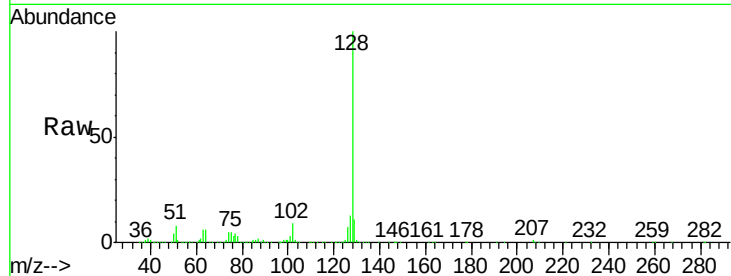
#95
Naphthalene
Concen: 19.082 ug/l
RT: 15.38 min Scan# 2210
Delta R.T. 0.01 min
Lab File: VW010400.D
Acq: 12 May 2019 11:14

Instrument :
MSVOA_W
ClientSampleId :
VW0512SBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.6	15.8
129	10.8	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
5/13/2019 12:27:10 PM



#96
1,2,3-Trichlorobenzene
Concen: 22.640 ug/l
RT: 15.56 min Scan# 2240
Delta R.T. -0.00 min
Lab File: VW010400.D
Acq: 12 May 2019 11:14

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.0	47.8	143.3
145	32.1	16.4	49.2

