

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW053119\
 Data File : VW010631.D
 Acq On : 31 May 2019 12:43
 Operator : SY/VA
 Sample : VW0531SBS01
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0531SBS01

Manual Integrations
 APPROVED

MMDadoda
 6/4/2019 8:44:28 AM

Quant Time: Jun 01 05:06:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W052019S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 21 06:38:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	172455	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	286781	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	257395	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	127970	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	82342	46.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.52%	
35) Dibromofluoromethane	7.88	113	86773	49.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.74%	
50) Toluene-d8	10.32	98	332457	50.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.02%	
62) 4-Bromofluorobenzene	12.62	95	129947	49.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.16%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.00	85	24170	15.539	ug/l	99
3) Chloromethane	2.21	50	27322	15.079	ug/l	99
4) Vinyl Chloride	2.35	62	31450	14.985	ug/l	98
5) Bromomethane	2.75	94	24664	17.082	ug/l	100
6) Chloroethane	2.90	64	22803	16.925	ug/l	97
7) Trichlorofluoromethane	3.25	101	61619	19.886	ug/l	93
8) Diethyl Ether	3.68	74	19042	19.386	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	4.06	101	39231	20.559	ug/l	98
10) Methyl Iodide	4.26	142	31571	14.475	ug/l	98
11) Tert butyl alcohol	5.16	59	22346	139.565	ug/l #	87
12) 1,1-Dichloroethene	4.03	96	36364	19.963	ug/l	91
13) Acrolein	3.89	56	8038	70.101	ug/l	98
14) Allyl chloride	4.67	41	48920	18.553	ug/l	99
15) Acrylonitrile	5.37	53	36508	88.749	ug/l	99
16) Acetone	4.12	43	35599	97.976	ug/l	97
17) Carbon Disulfide	4.37	76	88661	16.318	ug/l	97
18) Methyl Acetate	4.68	43	18208	20.490	ug/l	96
19) Methyl tert-butyl Ether	5.43	73	88237	19.001	ug/l	92
20) Methylene Chloride	4.91	84	39427	14.937	ug/l	98
21) trans-1,2-Dichloroethene	5.42	96	41780	19.996	ug/l	93
22) Diisopropyl ether	6.31	45	104041	19.244	ug/l	99
23) Vinyl Acetate	6.26	43	285089	88.275	ug/l	99
24) 1,1-Dichloroethane	6.21	63	64769	20.075	ug/l	98
25) 2-Butanone	7.17	43	50337	96.806	ug/l	100
26) 2,2-Dichloropropane	7.16	77	68519	22.295	ug/l	96
27) cis-1,2-Dichloroethene	7.17	96	47096	20.733	ug/l	98
28) Bromochloromethane	7.51	49	24547	21.250	ug/l	95
29) Tetrahydrofuran	7.52	42	29499	83.838	ug/l	99
30) Chloroform	7.68	83	72252	20.762	ug/l	95
31) Cyclohexane	7.95	56	63180	18.694	ug/l	96
32) 1,1,1-Trichloroethane	7.87	97	68940	20.726	ug/l	99
36) 1,1-Dichloropropene	8.08	75	57184	21.405	ug/l	99
37) Ethyl Acetate	7.25	43	20701	18.222	ug/l	99
38) Carbon Tetrachloride	8.07	117	61777	21.436	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW053119\
 Data File : VW010631.D
 Acq On : 31 May 2019 12:43
 Operator : SY/VA
 Sample : VW0531SBS01
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0531SBS01

Manual Integrations
 APPROVED

MMDadoda
 6/4/2019 8:44:28 AM

Quant Time: Jun 01 05:06:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W052019S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 21 06:38:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	73171	20.443	ug/l	98
40) Benzene	8.32	78	158397	21.332	ug/l	98
41) Methacrylonitrile	7.48	41	13052	19.336	ug/l	94
42) 1,2-Dichloroethane	8.40	62	43635	20.561	ug/l	99
43) Isopropyl Acetate	8.43	43	40703	17.934	ug/l	97
44) Trichloroethene	9.09	130	48180	21.856	ug/l	99
45) 1,2-Dichloropropane	9.37	63	37103	21.039	ug/l	99
46) Dibromomethane	9.46	93	21682	21.023	ug/l	98
47) Bromodichloromethane	9.65	83	52251	20.161	ug/l	99
48) Methyl methacrylate	9.44	41	17914	17.253	ug/l	96
49) 1,4-Dioxane	9.45	88	5781	343.139	ug/l	98
51) 4-Methyl-2-Pentanone	10.21	43	104513	90.877	ug/l	99
52) Toluene	10.39	92	108182	21.694	ug/l	98
53) t-1,3-Dichloropropene	10.61	75	50545	19.257	ug/l	100
54) cis-1,3-Dichloropropene	10.07	75	60179	20.075	ug/l	99
55) 1,1,2-Trichloroethane	10.79	97	31212	21.046	ug/l	93
56) Ethyl methacrylate	10.65	69	37005	18.092	ug/l	100
57) 1,3-Dichloropropane	10.93	76	51166	20.596	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.93	63	86401	95.369	ug/l	98
59) 2-Hexanone	10.97	43	72023	87.792	ug/l	99
60) Dibromochloromethane	11.13	129	36720	19.564	ug/l	99
61) 1,2-Dibromoethane	11.24	107	30753	20.470	ug/l	99
64) Tetrachloroethene	10.86	164	39029	21.752	ug/l	97
65) Chlorobenzene	11.66	112	117841	21.482	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.73	131	41898	21.321	ug/l	99
67) Ethyl Benzene	11.73	91	206114	21.281	ug/l	99
68) m/p-Xylenes	11.84	106	161684	42.561	ug/l	100
69) o-Xylene	12.17	106	77231	21.458	ug/l	98
70) Styrene	12.18	104	128037	20.966	ug/l	100
71) Bromoform	12.35	173	18945	17.507	ug/l #	98
73) Isopropylbenzene	12.46	105	211933	20.870	ug/l	100
74) N-amyl acetate	12.27	43	38226	16.427	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.71	83	33893	18.350	ug/l	99
76) 1,2,3-Trichloropropane	12.77	75	24565m	18.911	ug/l	
77) Bromobenzene	12.75	156	47965	21.107	ug/l	98
78) n-propylbenzene	12.80	91	238558	20.158	ug/l	99
79) 2-Chlorotoluene	12.90	91	140283	20.441	ug/l	98
80) 1,3,5-Trimethylbenzene	12.94	105	175971	20.460	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.51	75	9595	15.416	ug/l	92
82) 4-Chlorotoluene	12.99	91	146083	20.507	ug/l	99
83) tert-Butylbenzene	13.21	119	154733	20.596	ug/l	99
84) 1,2,4-Trimethylbenzene	13.26	105	177752	20.751	ug/l	100
85) sec-Butylbenzene	13.38	105	218101	20.745	ug/l	100
86) p-Isopropyltoluene	13.50	119	199019	20.914	ug/l	100
87) 1,3-Dichlorobenzene	13.50	146	95619	21.447	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	93673	20.941	ug/l	97
89) n-Butylbenzene	13.83	91	183996	20.328	ug/l	99
90) Hexachloroethane	14.10	117	35331	19.182	ug/l	99
91) 1,2-Dichlorobenzene	13.87	146	85199	20.973	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.49	75	5598	16.300	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW053119\
Data File : VW010631.D
Acq On : 31 May 2019 12:43
Operator : SY/VA
Sample : VW0531SBS01
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0531SBS01

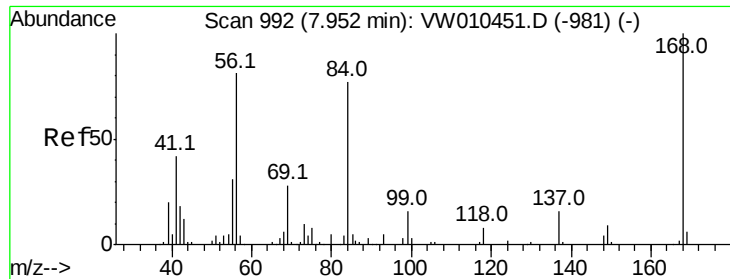
Manual Integrations
APPROVED

MMDadoda
6/4/2019 8:44:28 AM

Quant Time: Jun 01 05:06:15 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W052019S.M
Quant Title : SW846 8260
QLast Update : Tue May 21 06:38:43 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.14	180	57096	20.657	ug/l	99
94) Hexachlorobutadiene	15.24	225	32102	21.741	ug/l	98
95) Naphthalene	15.37	128	101615	17.514	ug/l	100
96) 1,2,3-Trichlorobenzene	15.56	180	49148	20.665	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW010631.D

Acq: 31 May 2019 12:43

Instrument :

MSVOA_W

ClientSampleId :

VW0531SBS01

Tot Ion:168 Resp: 172455

Ion Ratio Lower Upper

168 100

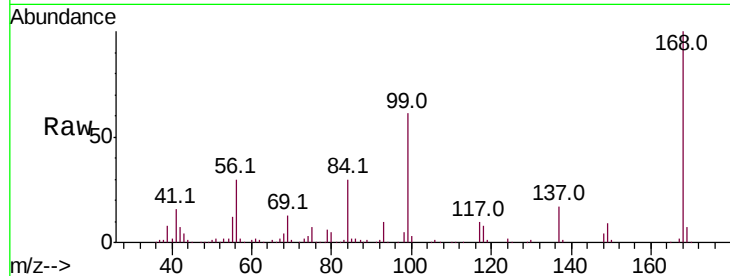
99 60.6 46.1 69.1

Manual Integrations

APPROVED

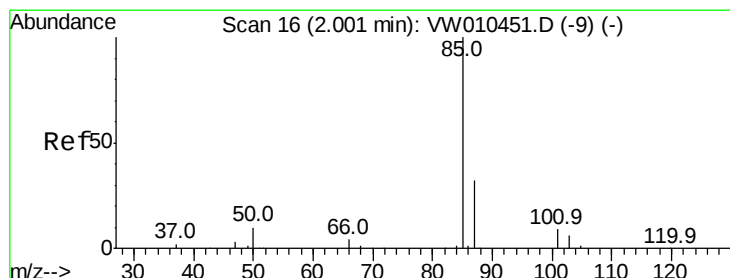
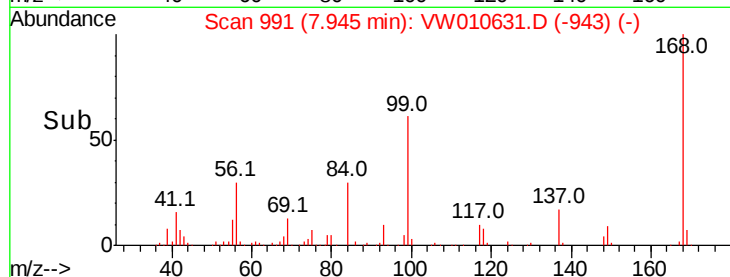
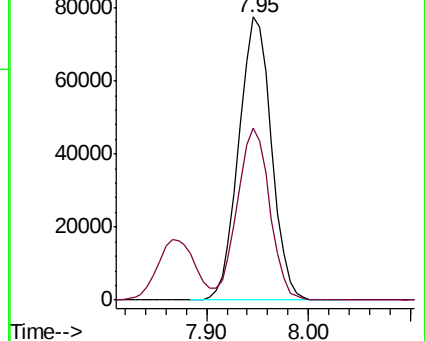
MMDadoda

6/4/2019 8:44:28 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: 15.539 ug/l

RT: 2.00 min Scan# 15

Delta R.T. -0.01 min

Lab File: VW010631.D

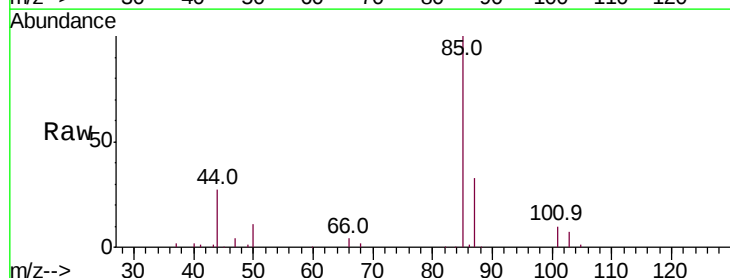
Acq: 31 May 2019 12:43

Tgt Ion: 85 Resp: 24170

Ion Ratio Lower Upper

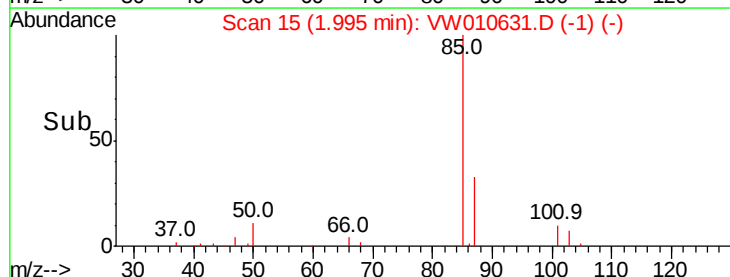
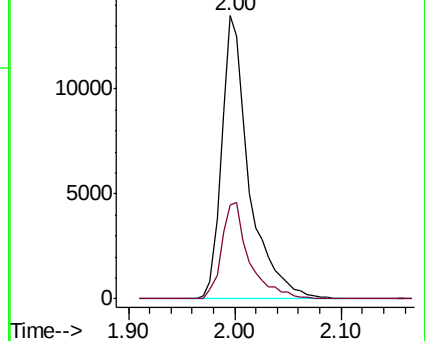
85 100

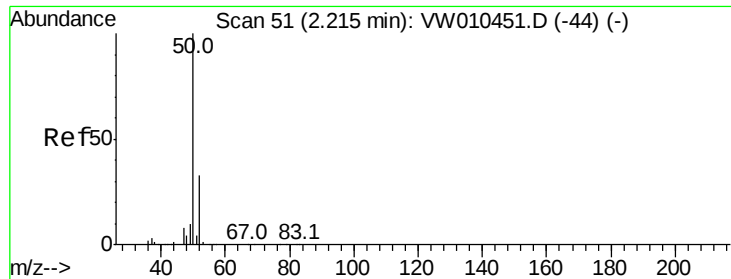
87 33.3 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#3

Chloromethane

Concen: 15.079 ug/l

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW010631.D

Acq: 31 May 2019 12:43

Instrument :

MSVOA_W

ClientSampleId :

VW0531SBS01

Tot Ion: 50 Resp: 27322

Ion Ratio Lower Upper

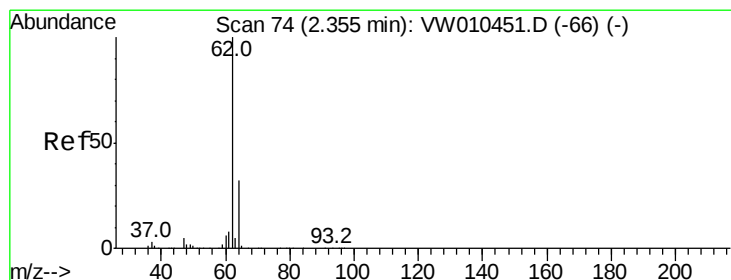
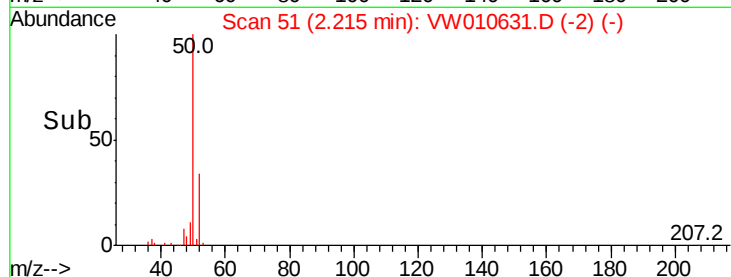
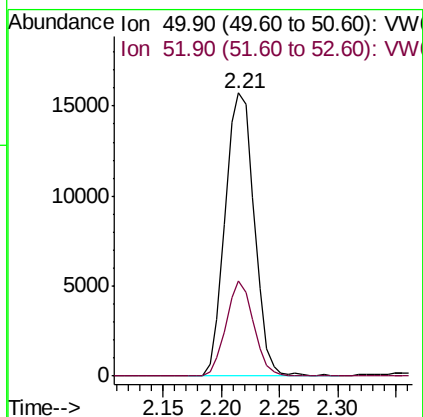
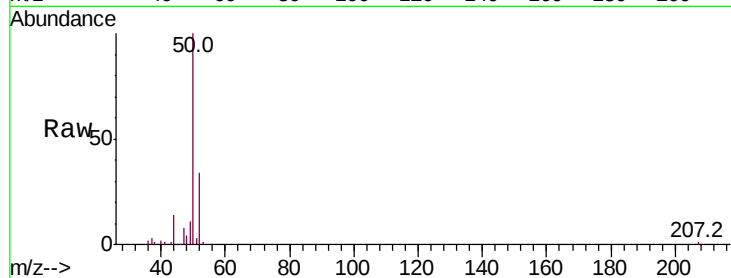
50 100

52 33.7 26.3 39.5

Manual Integrations
APPROVED

MMDadoda

6/4/2019 8:44:28 AM



#4

Vinyl Chloride

Concen: 14.985 ug/l

RT: 2.35 min Scan# 74

Delta R.T. -0.00 min

Lab File: VW010631.D

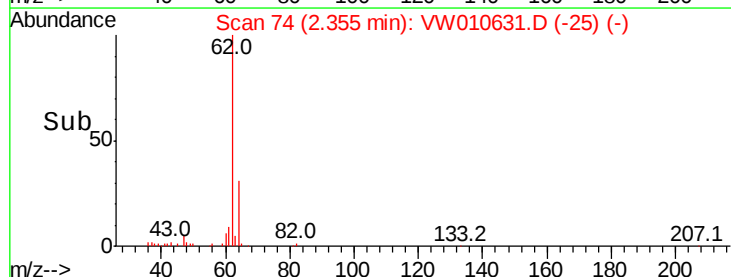
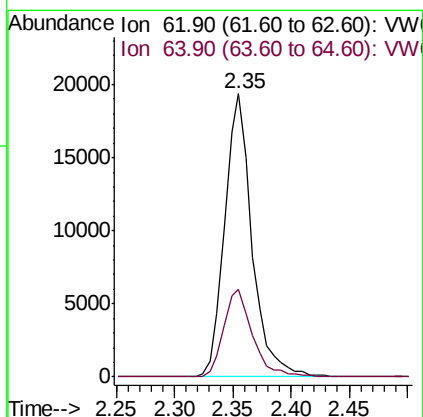
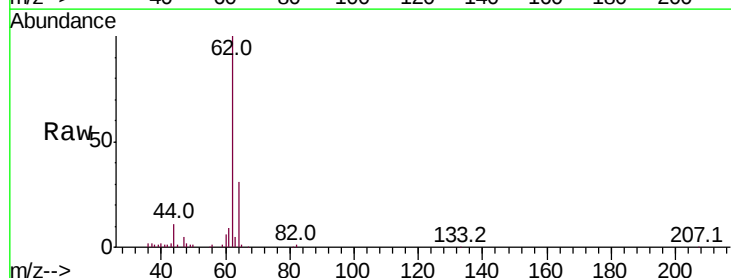
Acq: 31 May 2019 12:43

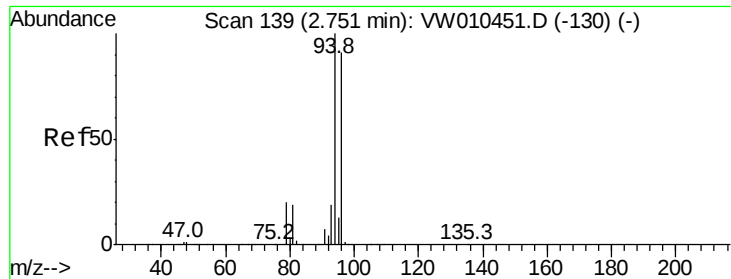
Tgt Ion: 62 Resp: 31450

Ion Ratio Lower Upper

62 100

64 31.1 25.8 38.8





#5

Bromomethane

Concen: 17.082 ug/l

RT: 2.75 min Scan# 138

Delta R.T. -0.01 min

Lab File: VW010631.D

Acq: 31 May 2019 12:43

Instrument :

MSVOA_W

ClientSampleId :

VW0531SBS01

Tot Ion: 94 Resp: 24664

Ion Ratio Lower Upper

94 100

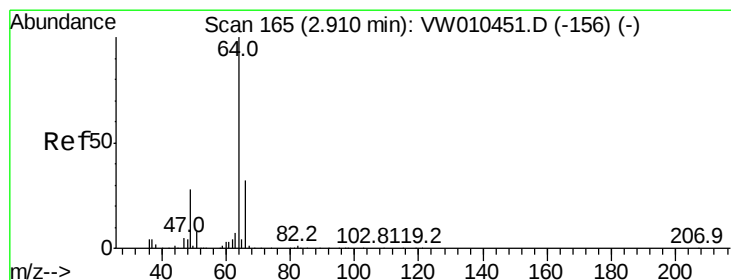
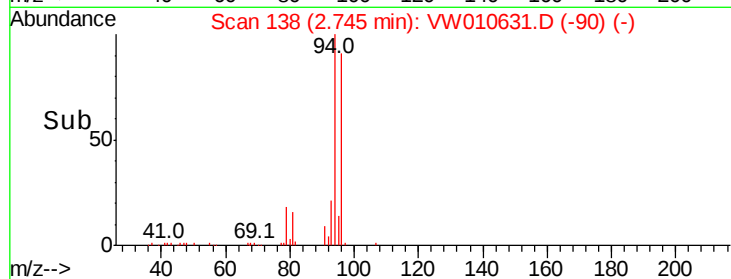
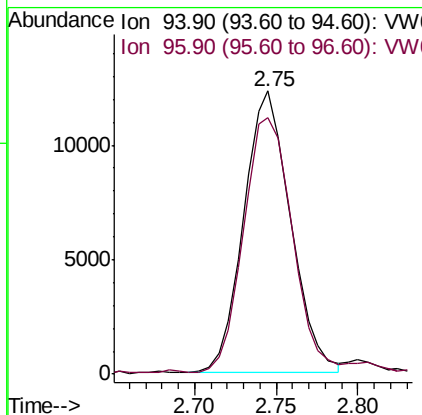
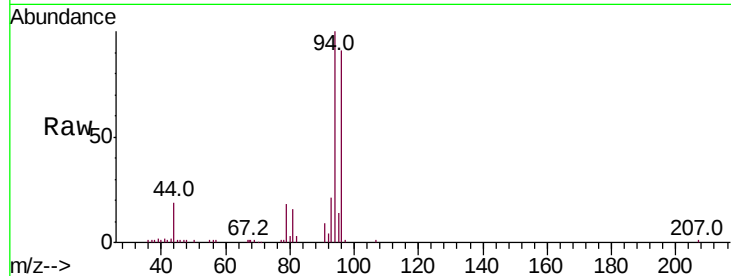
96 90.8 72.9 109.3

Manual Integrations

APPROVED

MMDadoda

6/4/2019 8:44:28 AM



#6

Chloroethane

Concen: 16.925 ug/l

RT: 2.90 min Scan# 164

Delta R.T. -0.01 min

Lab File: VW010631.D

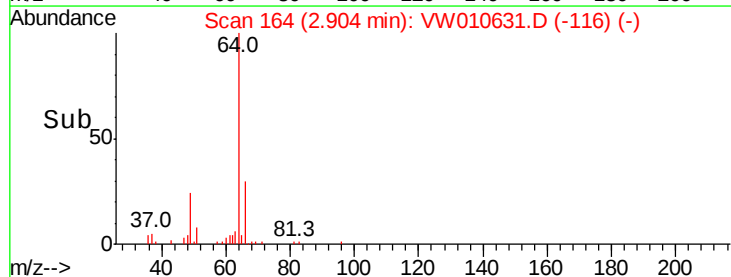
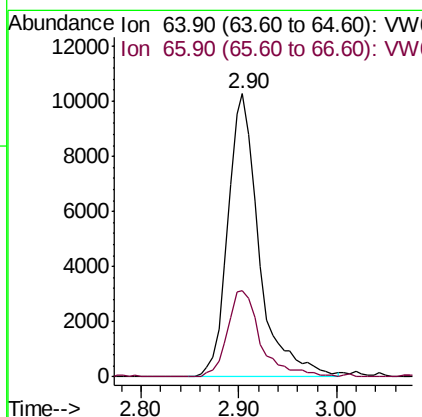
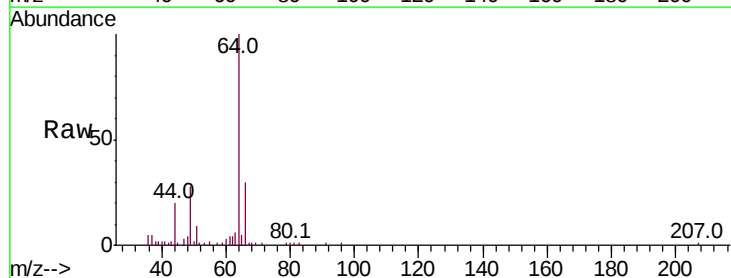
Acq: 31 May 2019 12:43

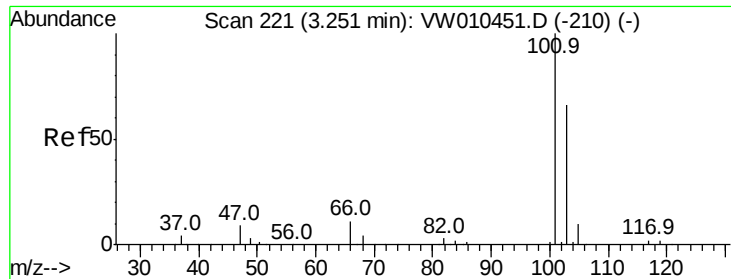
Tgt Ion: 64 Resp: 22803

Ion Ratio Lower Upper

64 100

66 30.3 25.5 38.3





#7

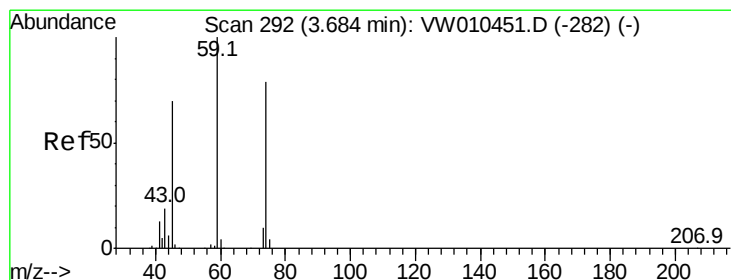
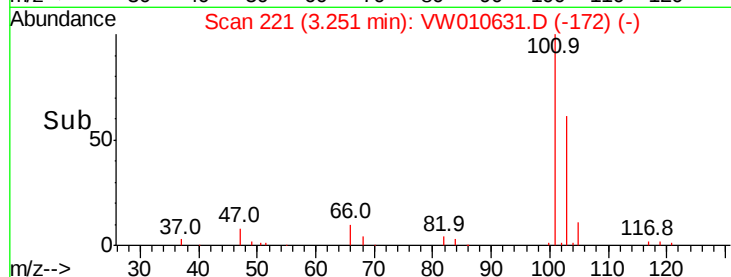
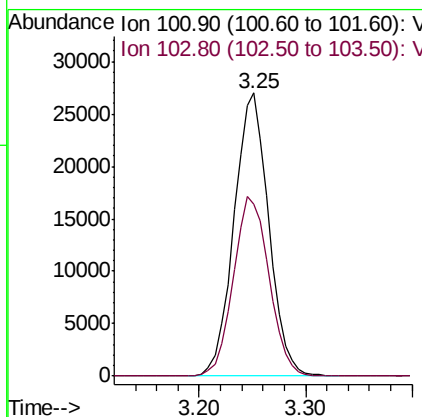
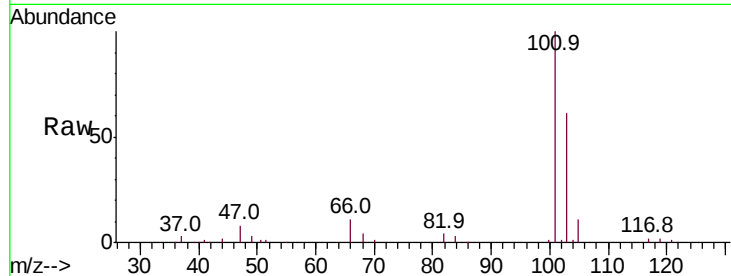
Trichlorofluoromethane
Concen: 19.886 ug/l
RT: 3.25 min Scan# 221
Delta R.T. -0.00 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Instrument :
MSVOA_W
ClientSampleId :
VW0531SBS01

Tot Ion:101 Resp: 61619
Ion Ratio Lower Upper
101 100
103 60.7 53.0 79.4

Manual Integrations
APPROVED

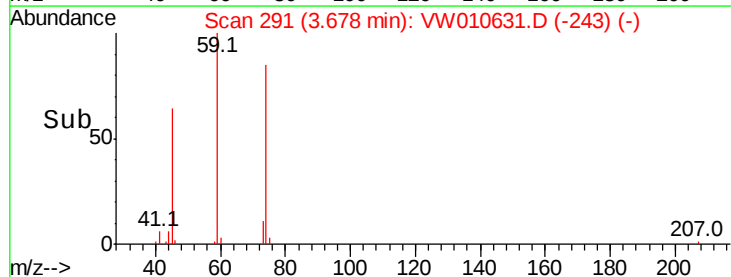
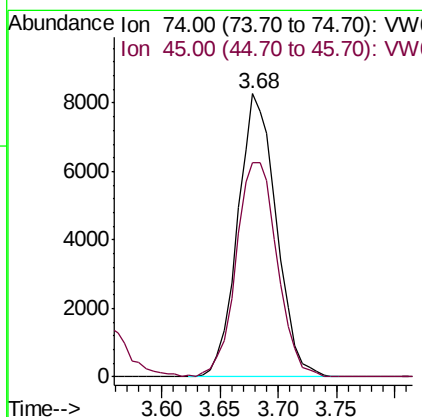
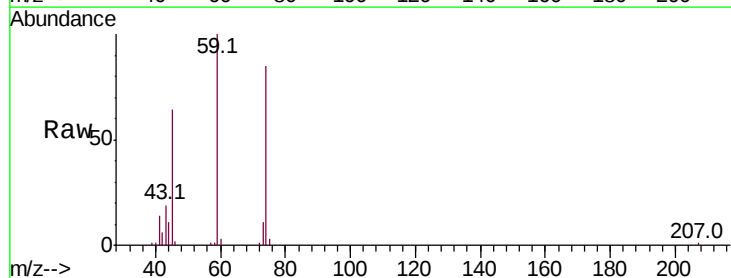
MMDadoda
6/4/2019 8:44:28 AM

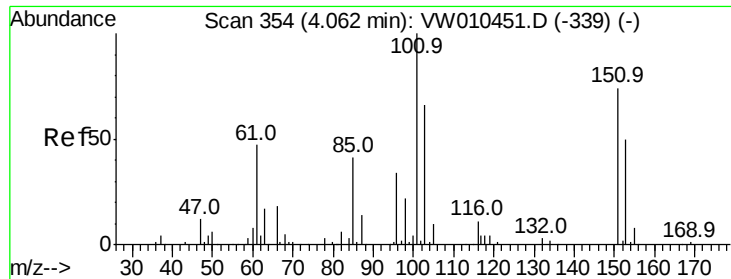


#8

Diethyl Ether
Concen: 19.386 ug/l
RT: 3.68 min Scan# 291
Delta R.T. -0.01 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Tgt Ion: 74 Resp: 19042
Ion Ratio Lower Upper
74 100
45 80.8 42.9 128.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.559 ug/l

RT: 4.06 min Scan# 353

Delta R.T. -0.01 min

Lab File: VW010631.D

Acq: 31 May 2019 12:43

Instrument :

MSVOA_W

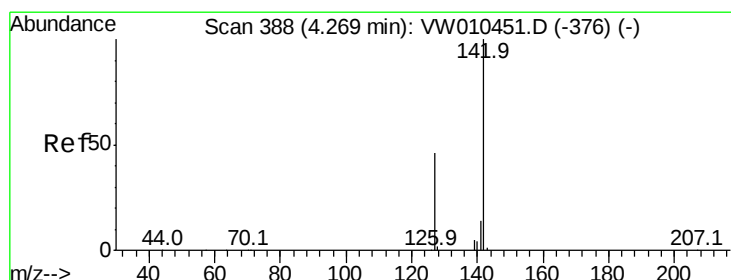
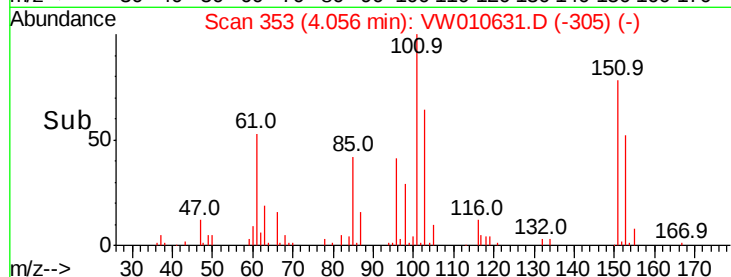
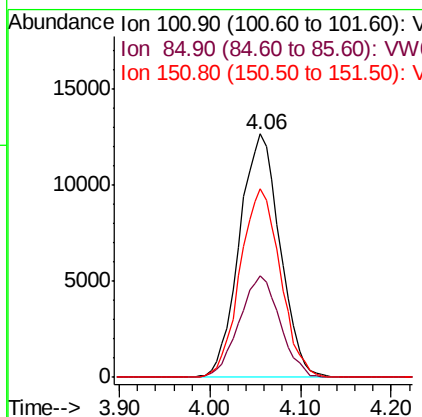
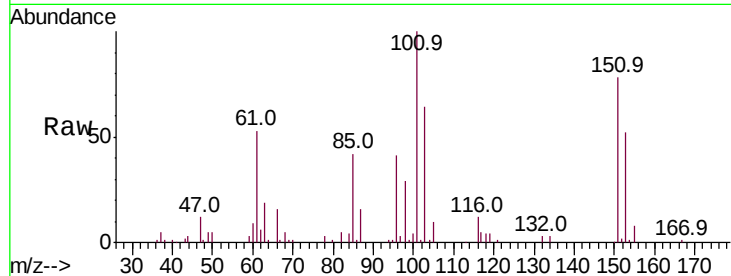
ClientSampleId :

VW0531SBS01

Tot Ion:	101	Resp:	39231
Ion Ratio	Lower	Upper	
101	100		
85	41.7	34.3	51.5
151	76.7	60.3	90.5

Manual Integrations
APPROVED

MMDadoda
6/4/2019 8:44:28 AM



#10

Methyl Iodide

Concen: 14.475 ug/l

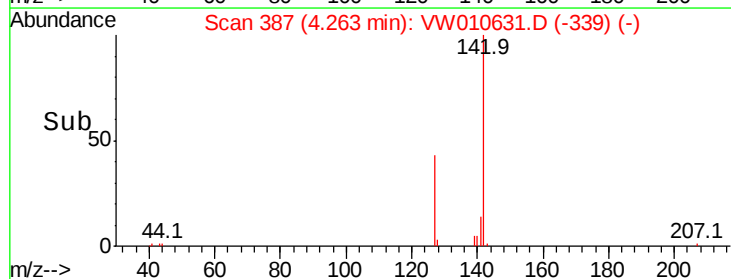
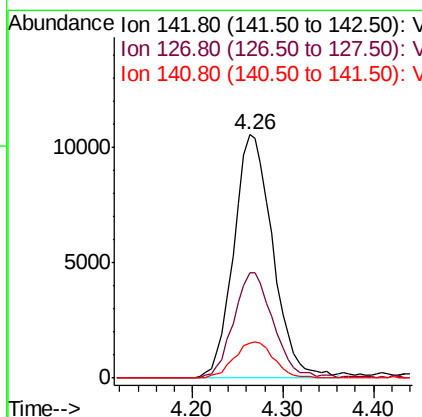
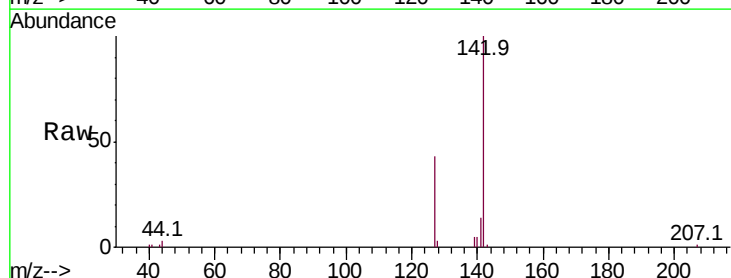
RT: 4.26 min Scan# 387

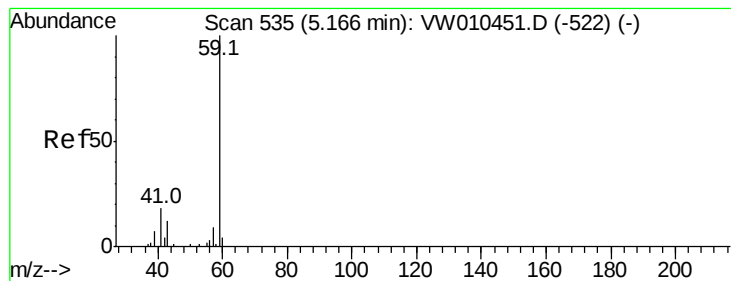
Delta R.T. -0.01 min

Lab File: VW010631.D

Acq: 31 May 2019 12:43

Tgt Ion:	142	Resp:	31571
Ion Ratio	Lower	Upper	
142	100		
127	43.8	36.1	54.1
141	15.0	11.3	16.9





#11

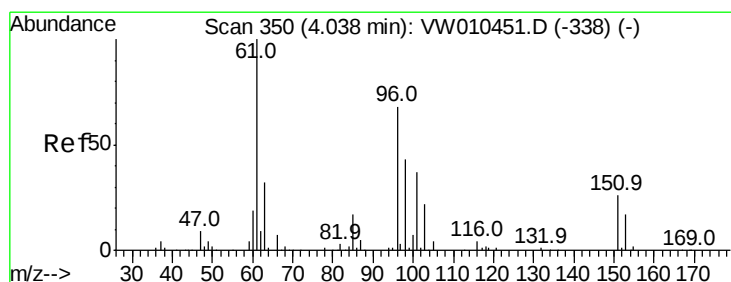
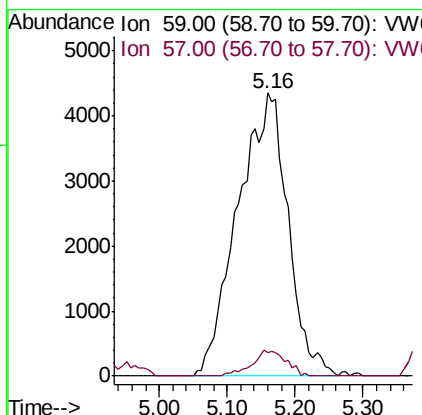
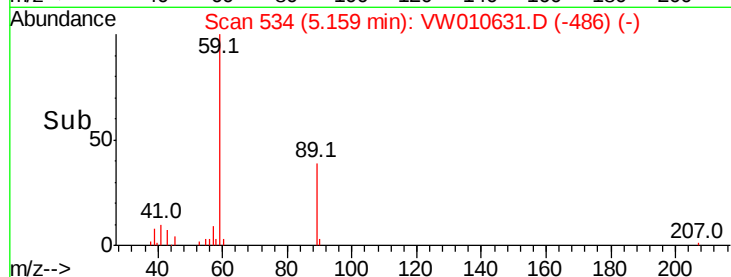
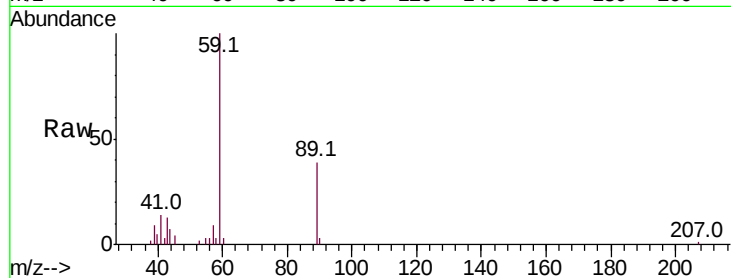
Tert butyl alcohol
Concen: 139.565 ug/l
RT: 5.16 min Scan# 534
Delta R.T. -0.01 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Instrument :
MSVOA_W
ClientSampled :
VW0531SBS01

Tot Ion	59	Resp	22346
Ion Ratio	100	Lower	Upper
57	6.2	8.8	13.2#

Manual Integrations
APPROVED

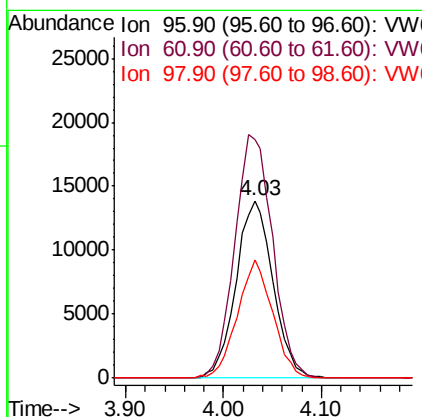
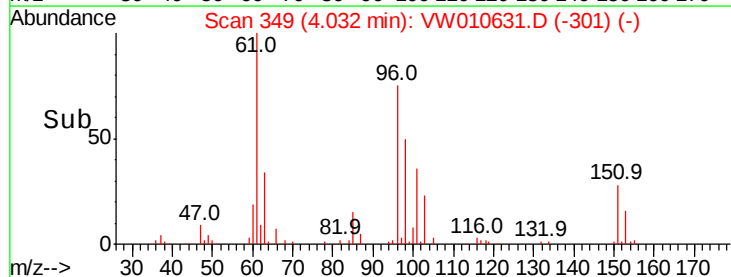
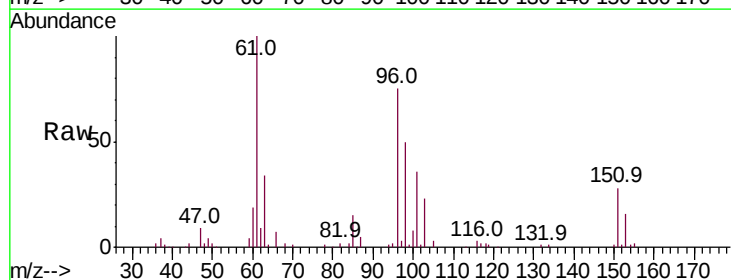
MMDadoda
6/4/2019 8:44:28 AM

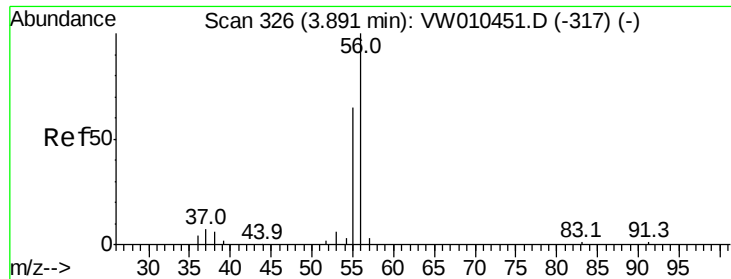


#12

1,1-Dichloroethene
Concen: 19.963 ug/l
RT: 4.03 min Scan# 349
Delta R.T. -0.01 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Tgt Ion	96	Resp	36364
Ion Ratio	100	Lower	Upper
61	134.2	118.3	177.5
98	66.5	51.0	76.6





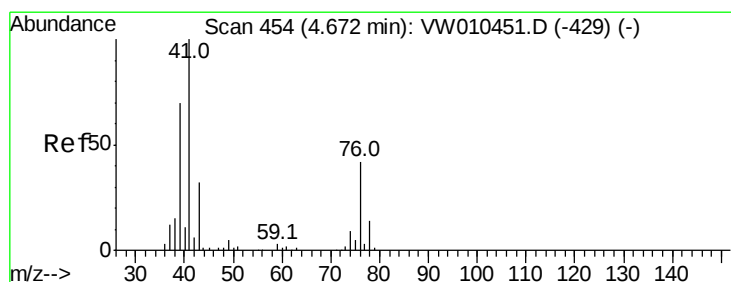
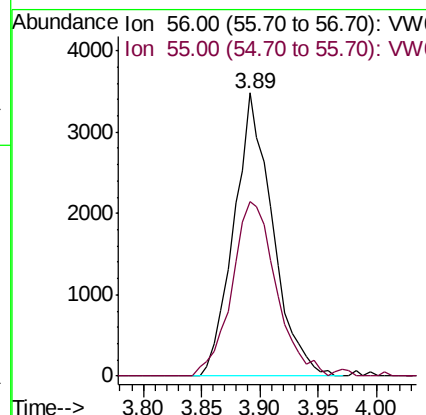
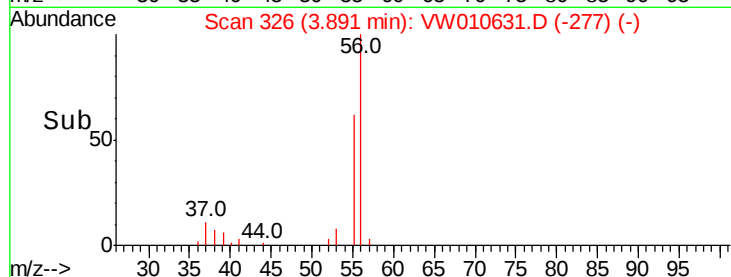
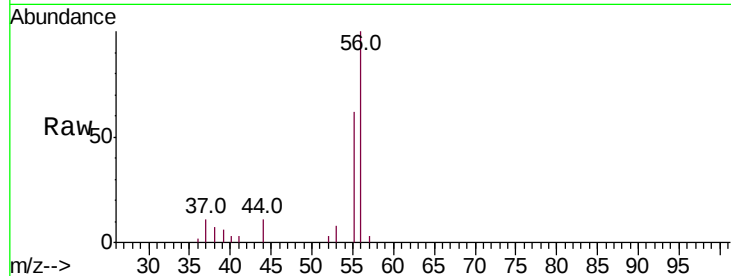
#13
Acrolein
Concen: 70.101 ug/l
RT: 3.89 min Scan# 326
Delta R.T. 0.00 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Instrument :
MSVOA_W
ClientSampleId :
VW0531SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
55	70.6	57.9	86.9

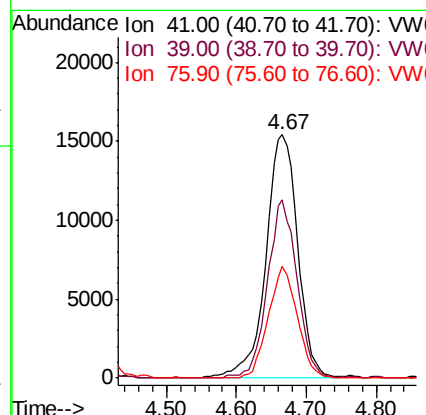
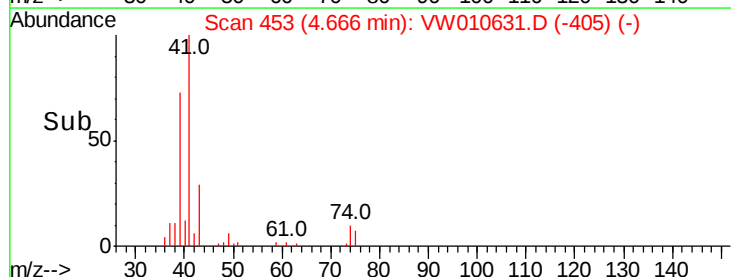
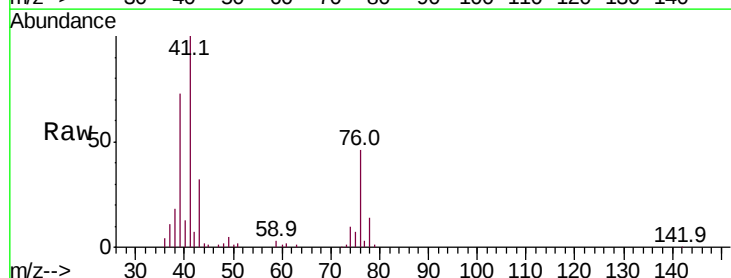
Manual Integrations
APPROVED

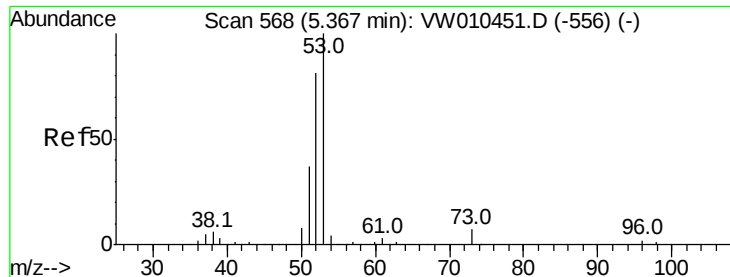
MMDadoda
6/4/2019 8:44:28 AM



#14
Allyl chloride
Concen: 18.553 ug/l
RT: 4.67 min Scan# 453
Delta R.T. -0.01 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Tgt Ion	Ratio	Lower	Upper
41	100		
39	68.1	55.0	82.4
76	41.7	32.8	49.2





#15

Acrylonitrile

Concen: 88.749 ug/l

RT: 5.37 min Scan# 568

Delta R.T. -0.00 min

Lab File: VW010631.D

Acq: 31 May 2019 12:43

Instrument :

MSVOA_W

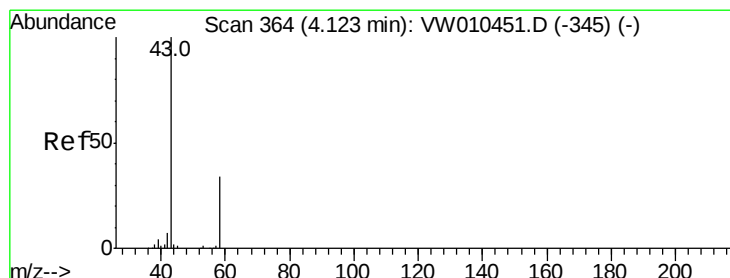
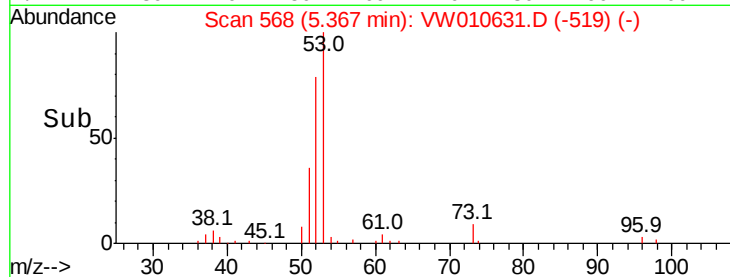
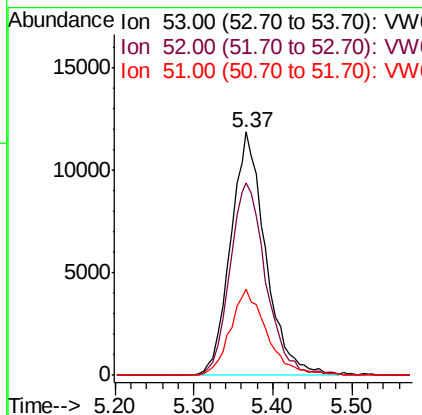
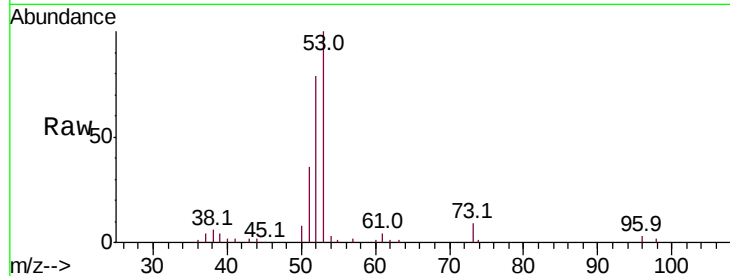
ClientSampleId :

VW0531SBS01

Tot Ion:	53	Resp:	36508
Ion	Ratio	Lower	Upper
53	100		
52	80.7	65.6	98.4
51	37.1	29.5	44.3

Manual Integrations
APPROVED

MMDadoda
6/4/2019 8:44:28 AM



#16

Acetone

Concen: 97.976 ug/l

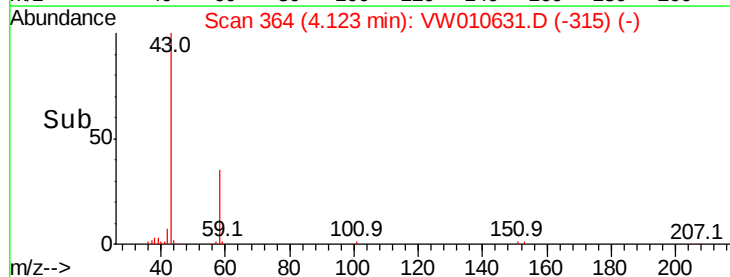
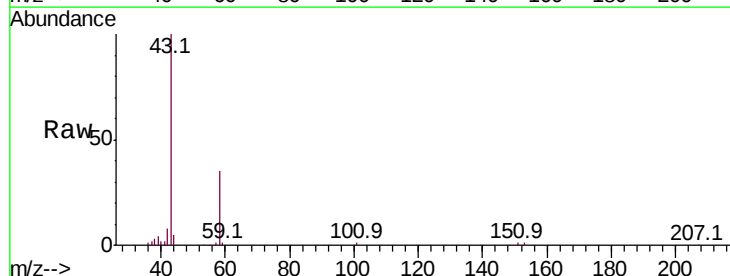
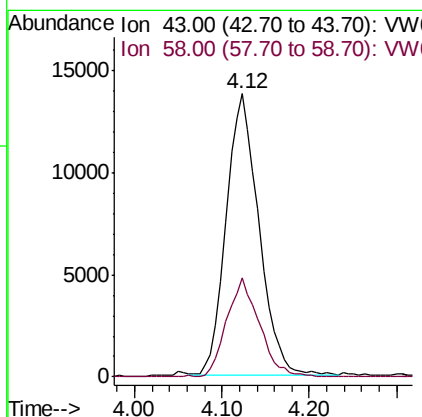
RT: 4.12 min Scan# 364

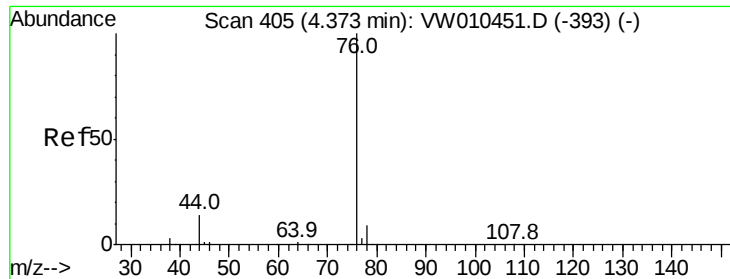
Delta R.T. -0.00 min

Lab File: VW010631.D

Acq: 31 May 2019 12:43

Tgt Ion:	43	Resp:	35599
Ion	Ratio	Lower	Upper
43	100		
58	35.3	27.0	40.4





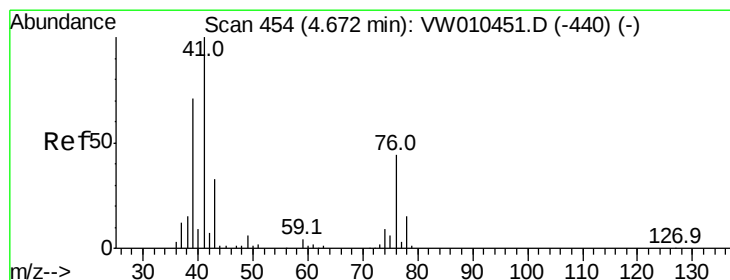
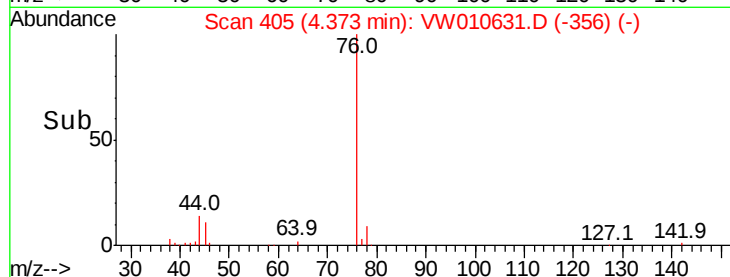
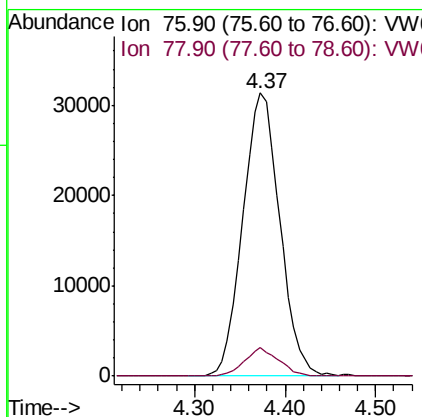
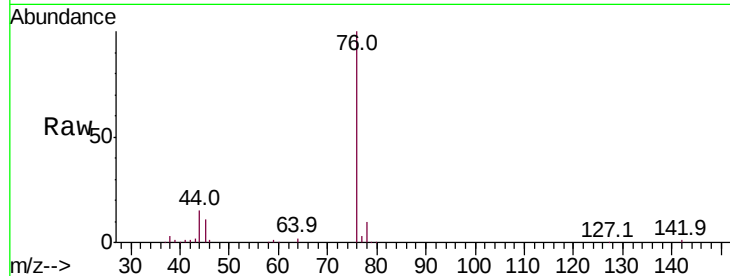
#17
Carbon Disulfide
Concen: 16.318 ug/l
RT: 4.37 min Scan# 405
Delta R.T. -0.00 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Instrument :
MSVOA_W
ClientSampleId :
VW0531SBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.9	7.1	10.7

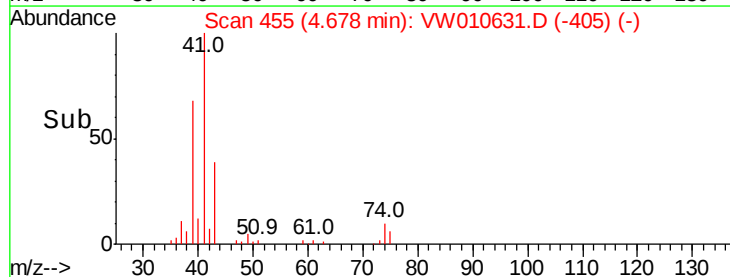
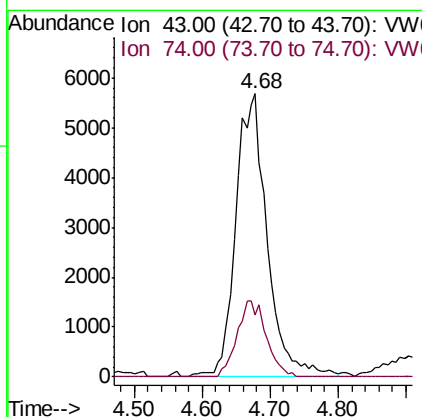
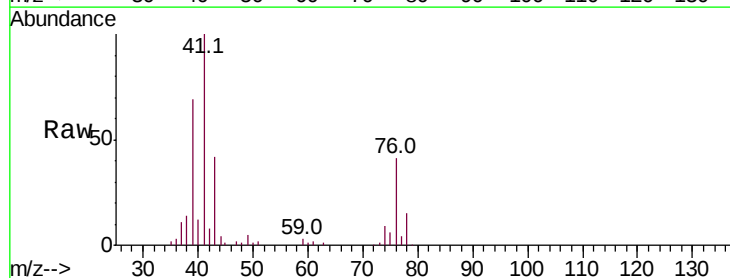
Manual Integrations
APPROVED

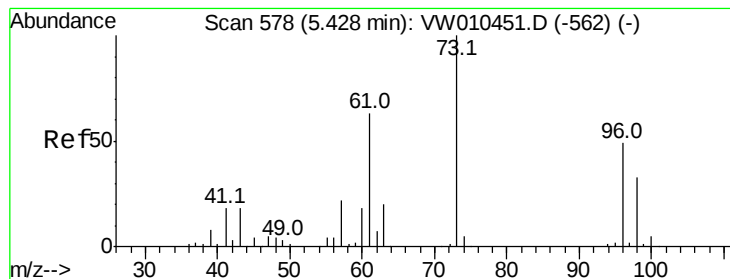
MMDadoda
6/4/2019 8:44:28 AM



#18
Methyl Acetate
Concen: 20.490 ug/l
RT: 4.68 min Scan# 455
Delta R.T. 0.01 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.7	21.6	32.4





#19

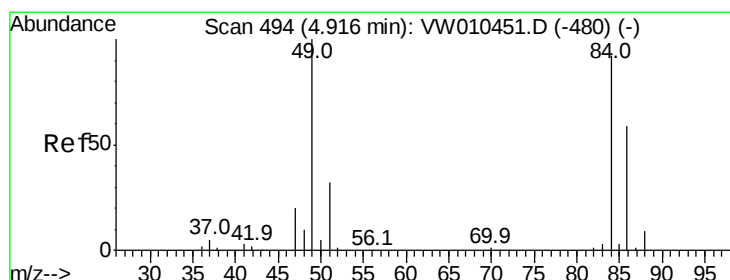
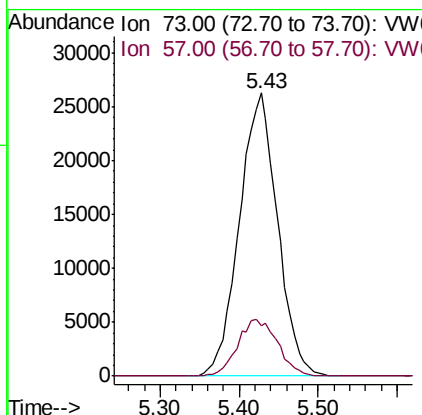
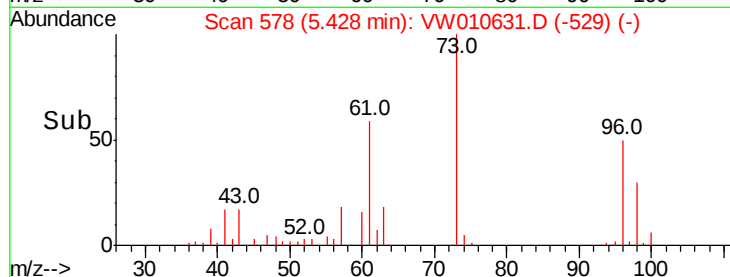
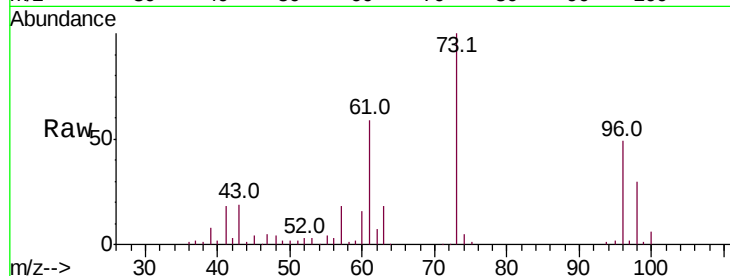
Methyl tert-butyl Ether
 Concen: 19.001 ug/l
 RT: 5.43 min Scan# 578
 Delta R.T. -0.00 min
 Lab File: VW010631.D
 Acq: 31 May 2019 12:43

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0531SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	18.0	17.4	26.0

Manual Integrations
 APPROVED

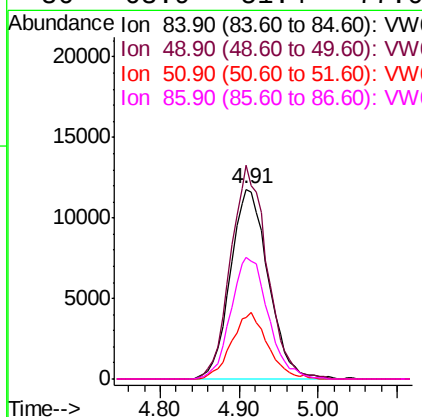
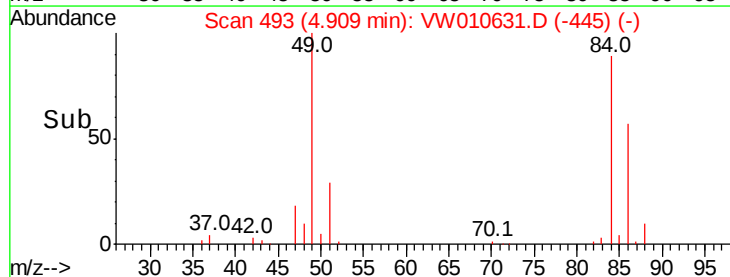
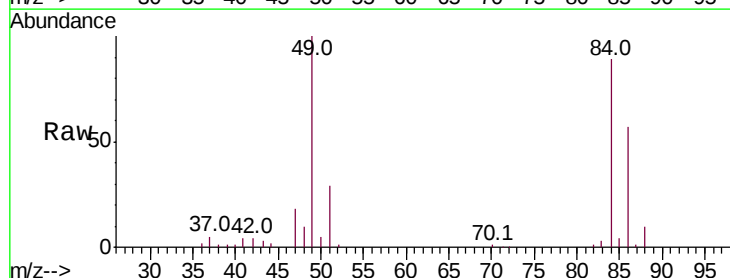
MMDadoda
 6/4/2019 8:44:28 AM

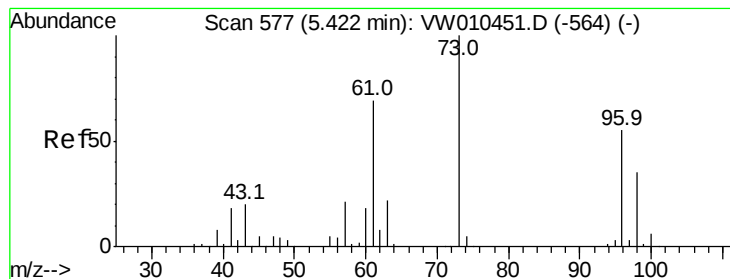


#20

Methylene Chloride
 Concen: 14.937 ug/l
 RT: 4.91 min Scan# 493
 Delta R.T. -0.01 min
 Lab File: VW010631.D
 Acq: 31 May 2019 12:43

Tgt Ion	Ratio	Lower	Upper
84	100		
49	112.6	87.2	130.8
51	32.6	27.7	41.5
86	63.9	51.4	77.0





#21

trans-1,2-Dichloroethene

Concen: 19.996 ug/l

RT: 5.42 min Scan# 577

Delta R.T. -0.00 min

Lab File: VW010631.D

Acq: 31 May 2019 12:43

Instrument :

MSVOA_W

ClientSampleId :

VW0531SBS01

Tot Ion: 96 Resp: 41780

Ion Ratio Lower Upper

96 100

61 114.0 101.4 152.0

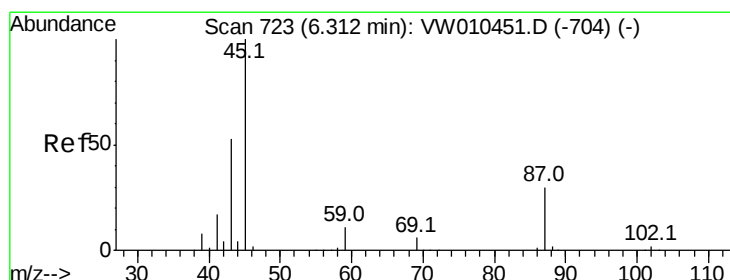
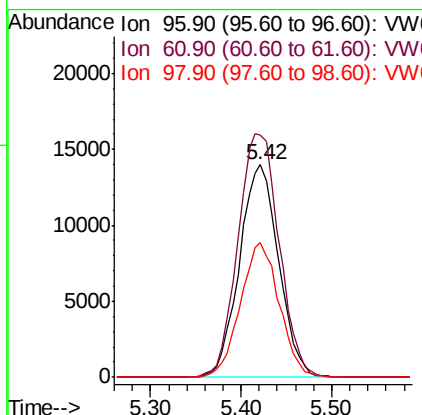
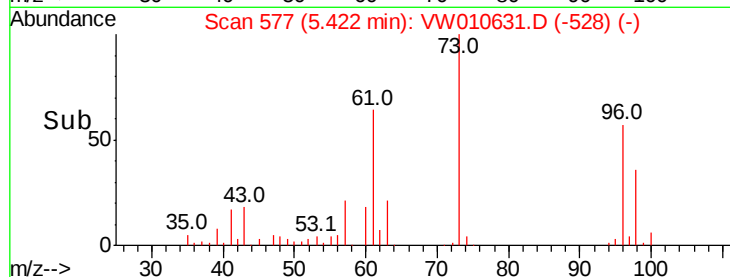
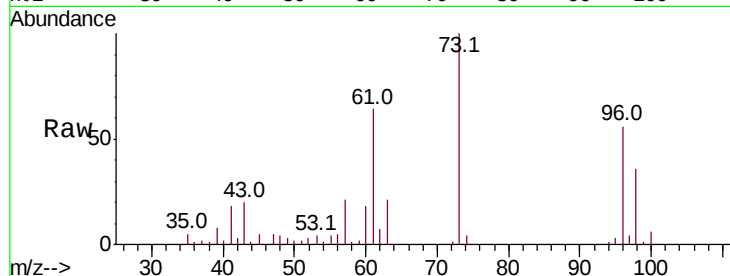
98 63.3 50.6 76.0

Manual Integrations

APPROVED

MMDadoda

6/4/2019 8:44:28 AM



#22

Diisopropyl ether

Concen: 19.244 ug/l

RT: 6.31 min Scan# 723

Delta R.T. -0.00 min

Lab File: VW010631.D

Acq: 31 May 2019 12:43

Tgt Ion: 45 Resp: 104041

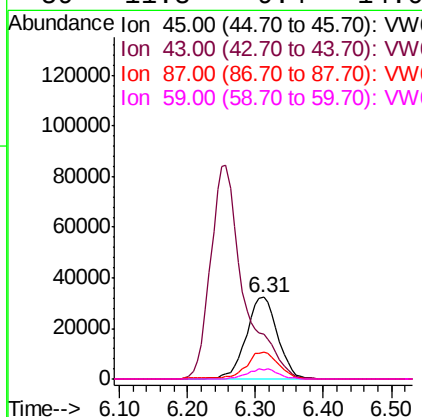
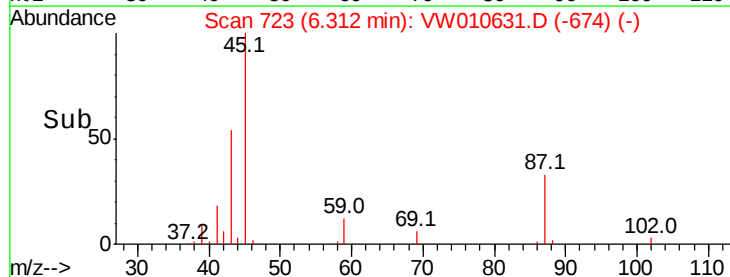
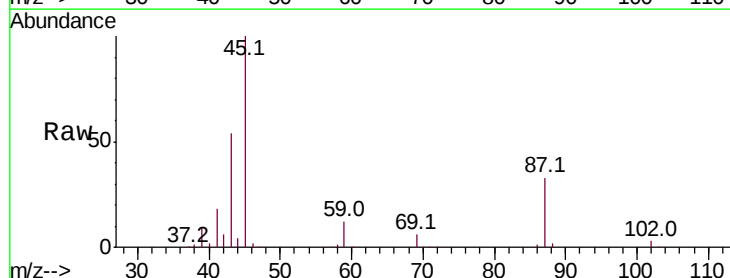
Ion Ratio Lower Upper

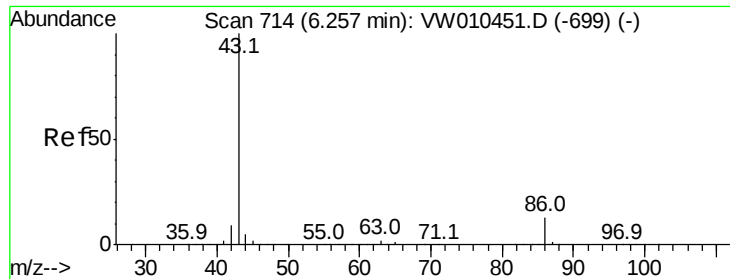
45 100

43 53.9 42.9 64.3

87 32.7 24.6 36.8

59 11.8 9.4 14.0





#23

Vinyl Acetate

Concen: 88.275 ug/l

RT: 6.26 min Scan# 714

Delta R.T. -0.00 min

Lab File: VW010631.D

Acq: 31 May 2019 12:43

Instrument :

MSVOA_W

ClientSampleId :

VW0531SBS01

Tot Ion: 43 Resp: 285089

Ion Ratio Lower Upper

43 100

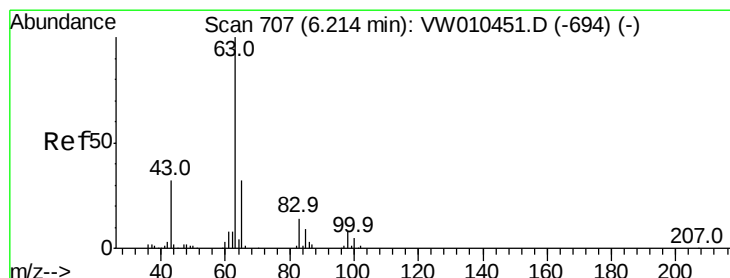
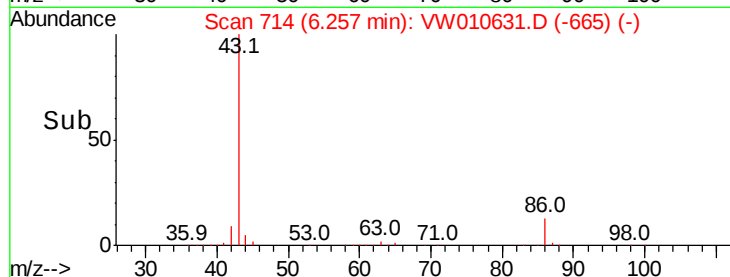
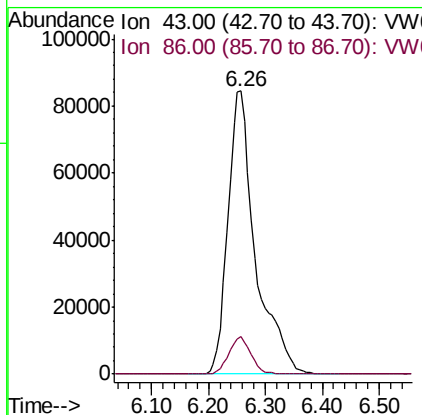
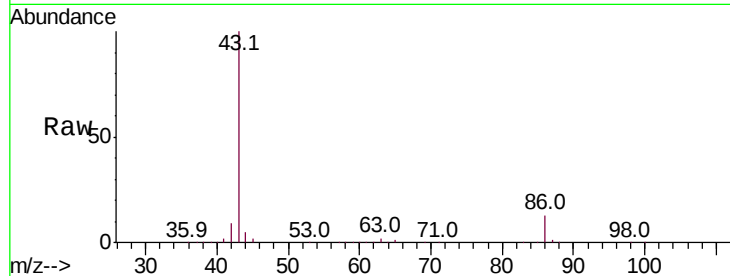
86 13.1 10.3 15.5

Manual Integrations

APPROVED

MMDadoda

6/4/2019 8:44:28 AM



#24

1,1-Dichloroethane

Concen: 20.075 ug/l

RT: 6.21 min Scan# 707

Delta R.T. -0.00 min

Lab File: VW010631.D

Acq: 31 May 2019 12:43

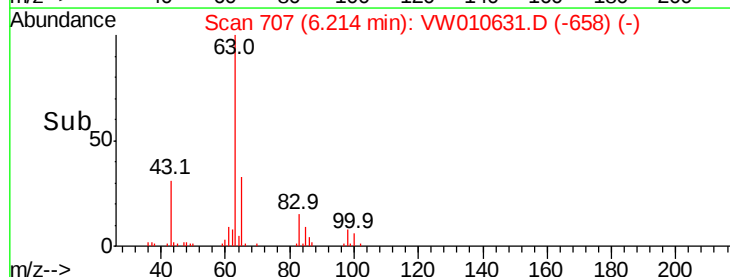
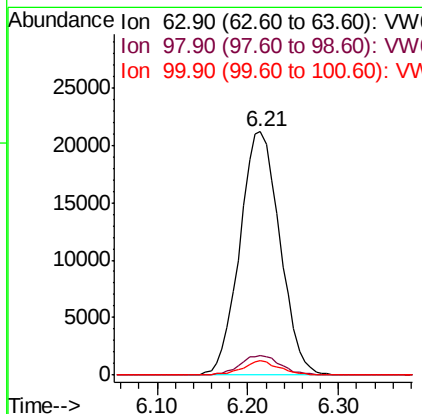
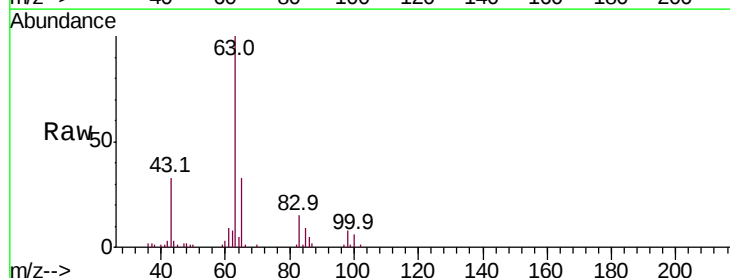
Tgt Ion: 63 Resp: 64769

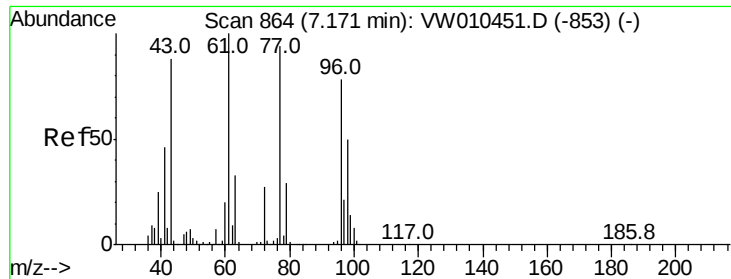
Ion Ratio Lower Upper

63 100

98 8.0 3.8 11.2

100 5.7 2.5 7.4





#25

2-Butanone

Concen: 96.806 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW010631.D

Acq: 31 May 2019 12:43

Instrument :

MSVOA_W

ClientSampleId :

VW0531SBS01

Tot Ion: 43 Resp: 50337

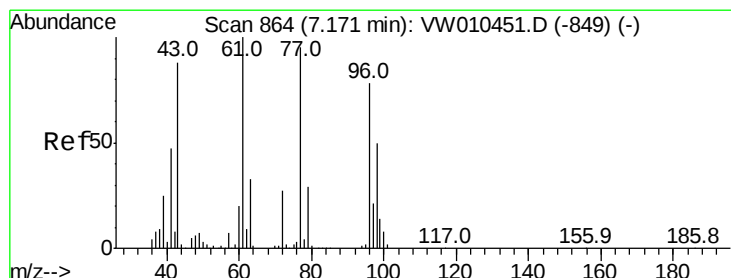
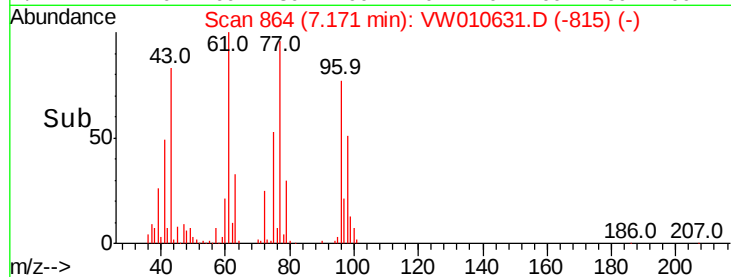
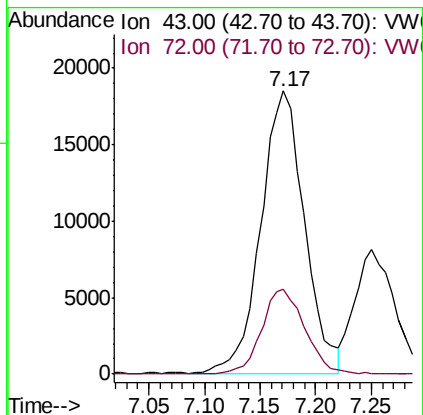
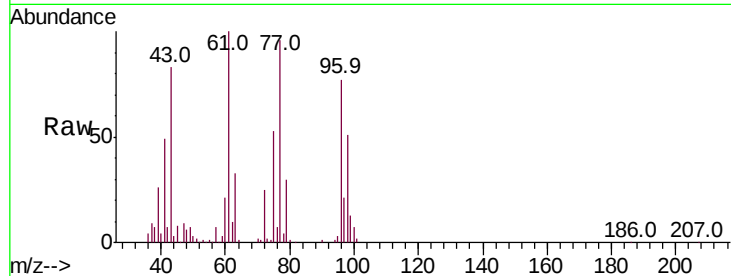
Ion Ratio Lower Upper

43 100

72 30.1 24.1 36.1

Manual Integrations
APPROVED

MMDadoda
6/4/2019 8:44:28 AM



#26

2,2-Dichloropropane

Concen: 22.295 ug/l

RT: 7.16 min Scan# 862

Delta R.T. -0.01 min

Lab File: VW010631.D

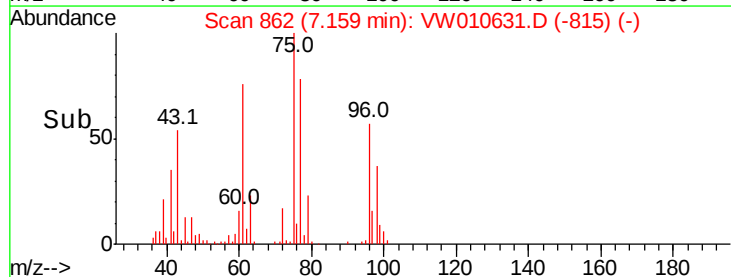
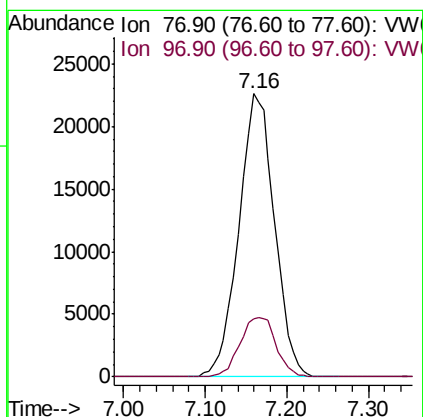
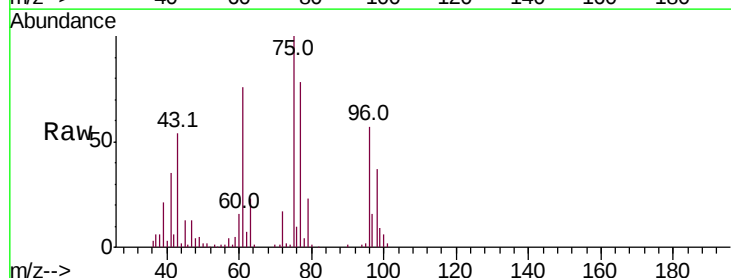
Acq: 31 May 2019 12:43

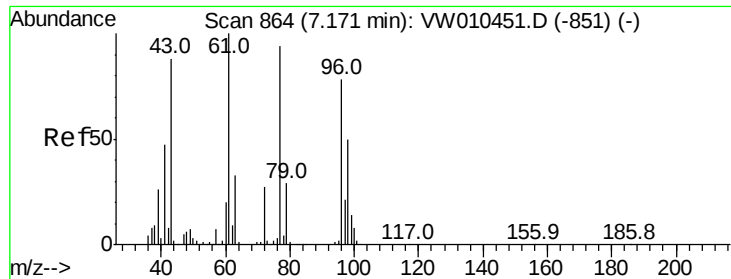
Tgt Ion: 77 Resp: 68519

Ion Ratio Lower Upper

77 100

97 21.2 11.7 35.0





#27

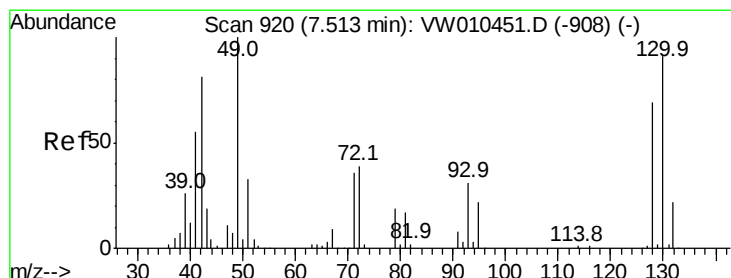
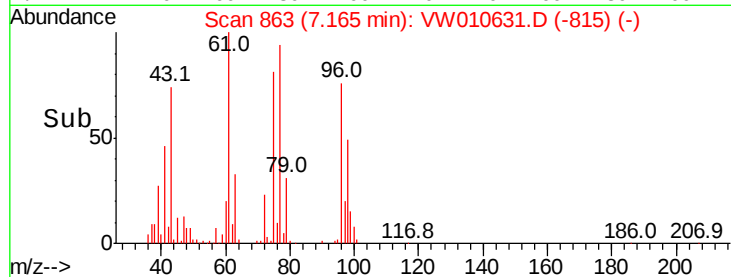
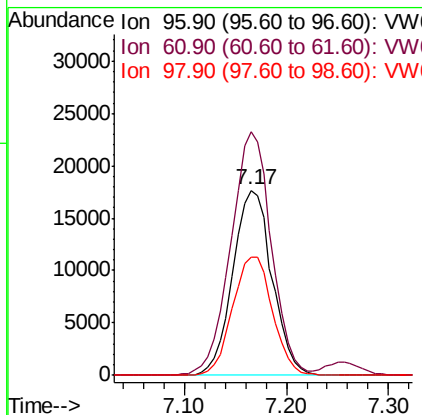
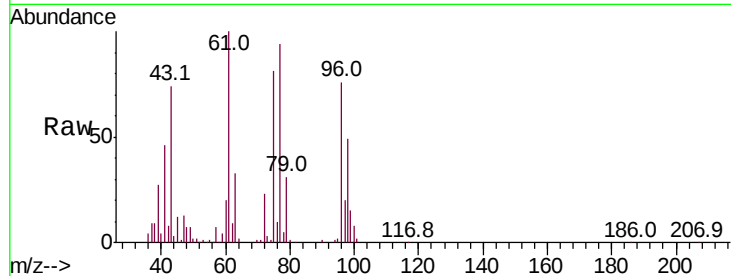
cis-1,2-Dichloroethene
Concen: 20.733 ug/l
RT: 7.17 min Scan# 863
Delta R.T. -0.01 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Instrument :
MSVOA_W
ClientSampleId :
VW0531SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	136.4	0.0	265.4
98	65.2	0.0	129.4

Manual Integrations
APPROVED

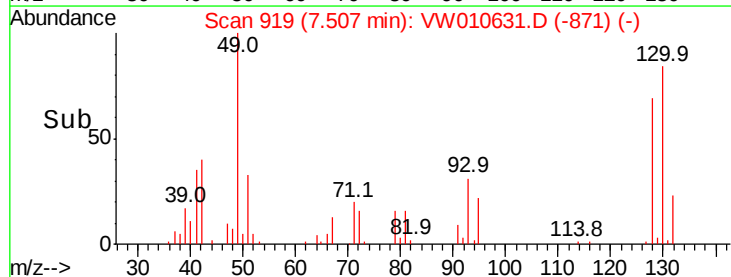
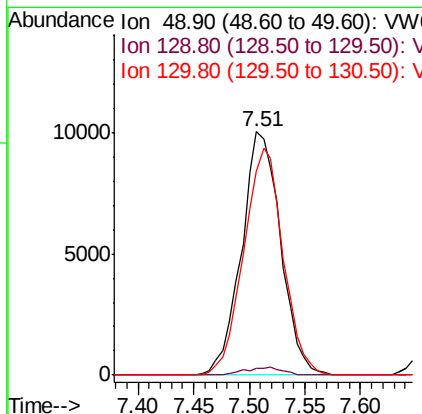
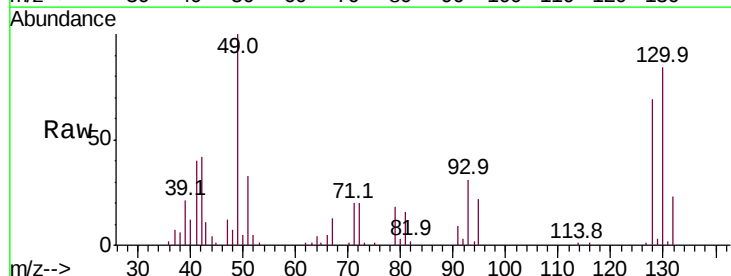
MMDadoda
6/4/2019 8:44:28 AM

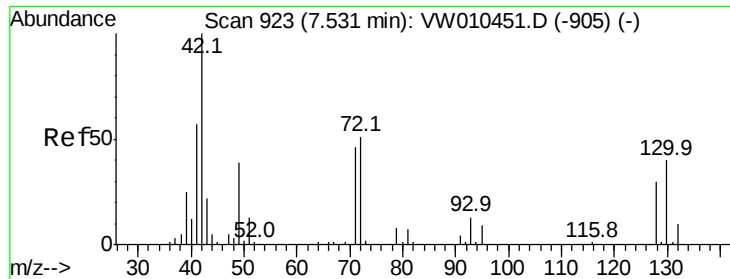


#28

Bromochloromethane
Concen: 21.250 ug/l
RT: 7.51 min Scan# 919
Delta R.T. -0.01 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Tgt Ion	Ratio	Lower	Upper
49	100		
129	3.0	0.0	4.8
130	93.8	71.2	106.8





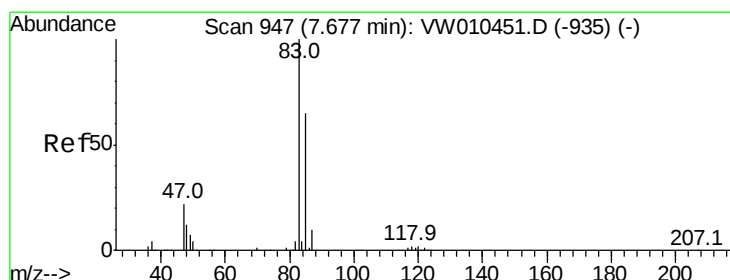
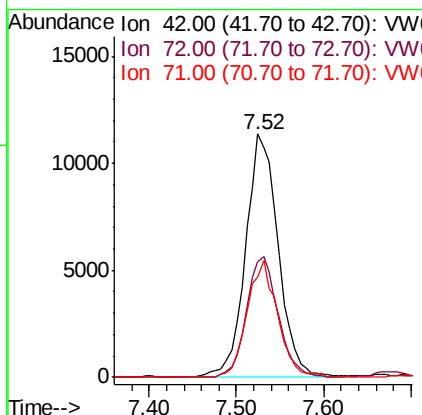
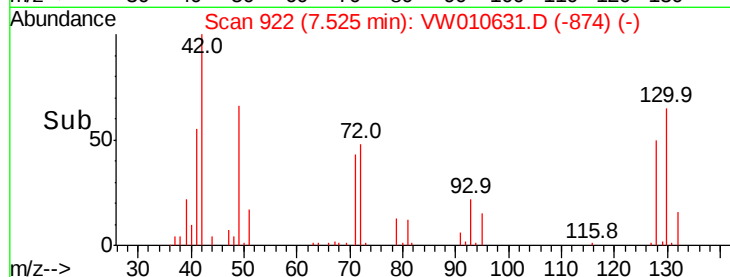
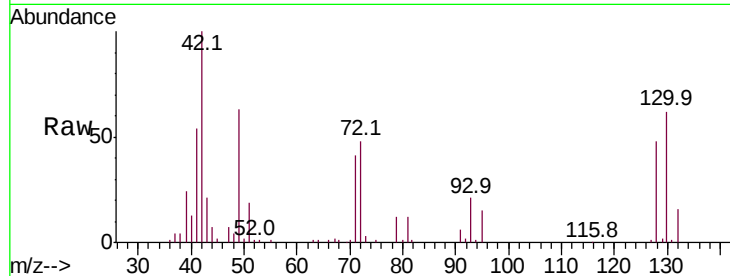
#29
Tetrahydrofuran
Concen: 83.838 ug/l
RT: 7.52 min Scan# 922
Delta R.T. -0.01 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Instrument :
MSVOA_W
ClientSampleId :
VW0531SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	47.9	38.5	57.7
71	45.1	36.5	54.7

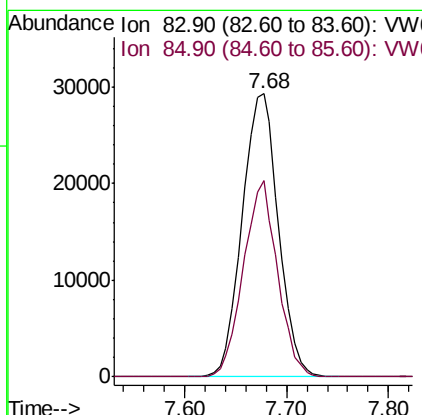
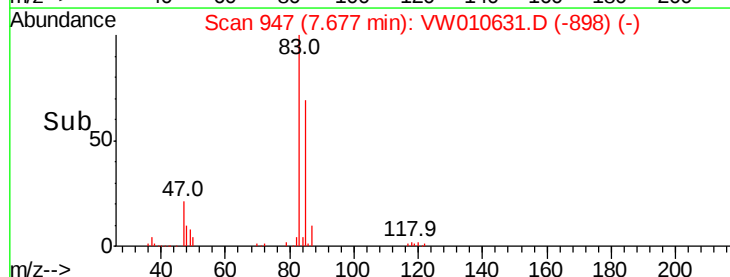
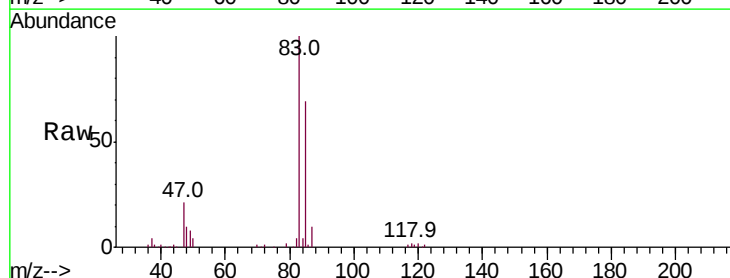
Manual Integrations
APPROVED

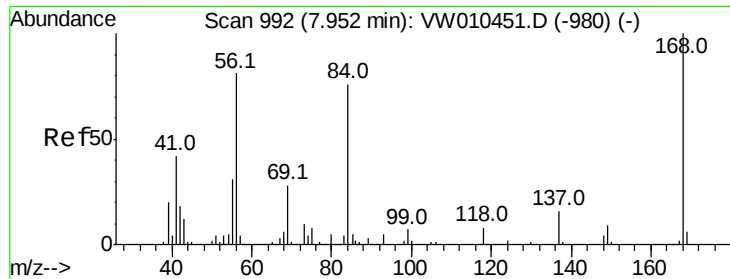
MMDadoda
6/4/2019 8:44:28 AM



#30
Chloroform
Concen: 20.762 ug/l
RT: 7.68 min Scan# 947
Delta R.T. -0.00 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Tgt Ion	Ratio	Lower	Upper
83	100		
85	69.3	52.2	78.4





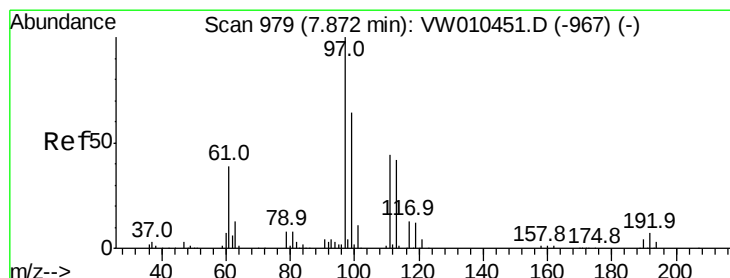
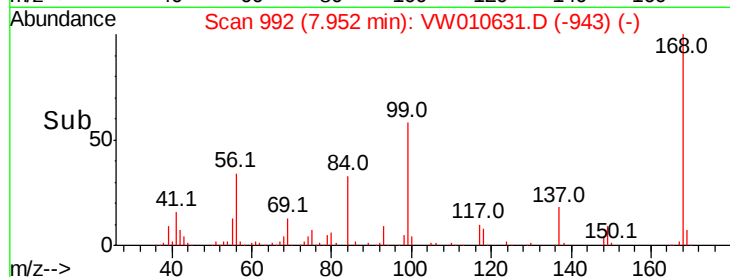
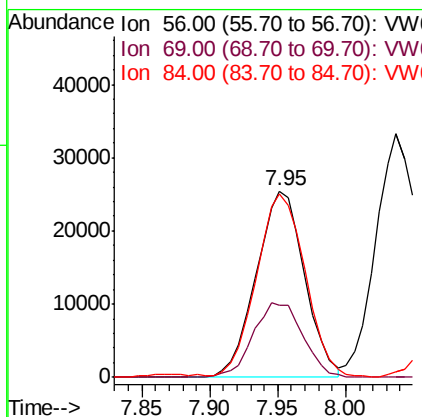
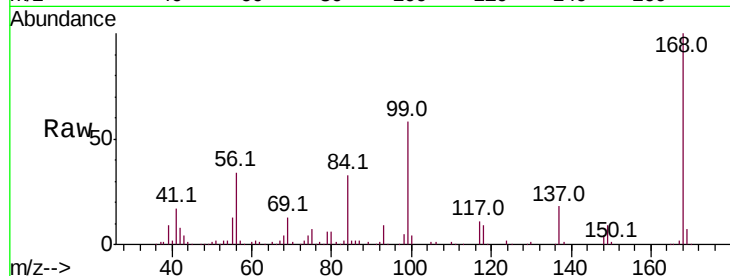
#31
Cyclohexane
Concen: 18.694 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.00 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Instrument :
MSVOA_W
ClientSampleId :
VW0531SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	38.8	28.2	42.2
84	97.4	75.8	113.8

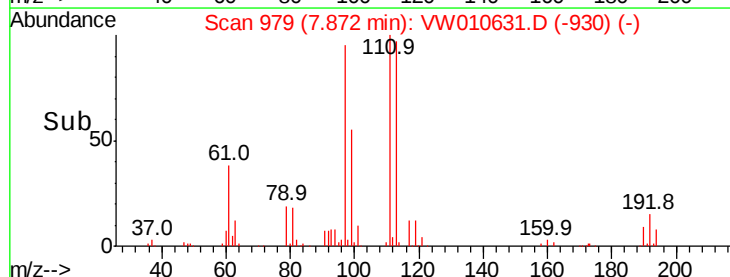
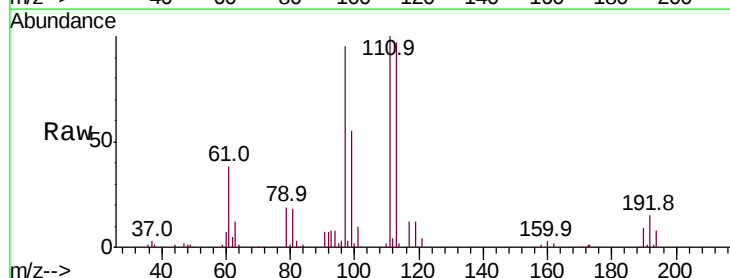
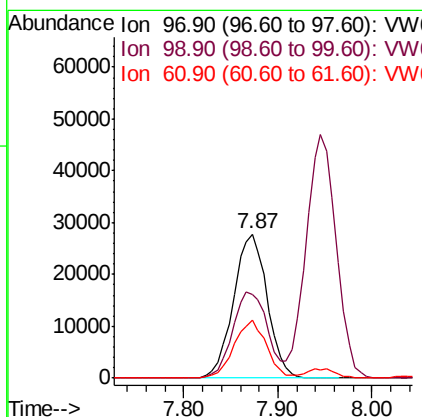
Manual Integrations
APPROVED

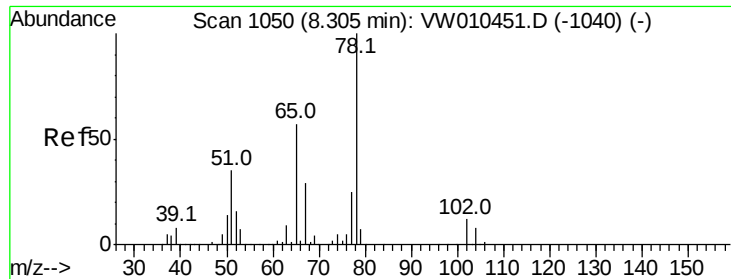
MMDadoda
6/4/2019 8:44:28 AM



#32
1,1,1-Trichloroethane
Concen: 20.726 ug/l
RT: 7.87 min Scan# 979
Delta R.T. -0.00 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.6	50.8	76.2
61	39.2	32.1	48.1





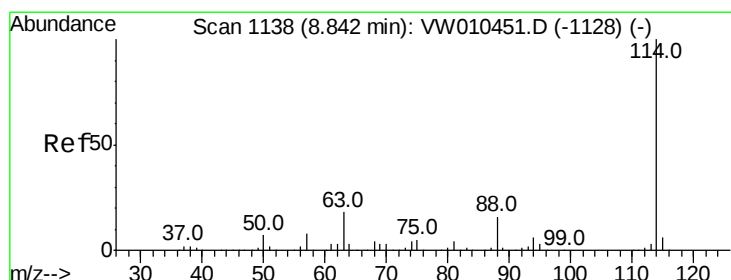
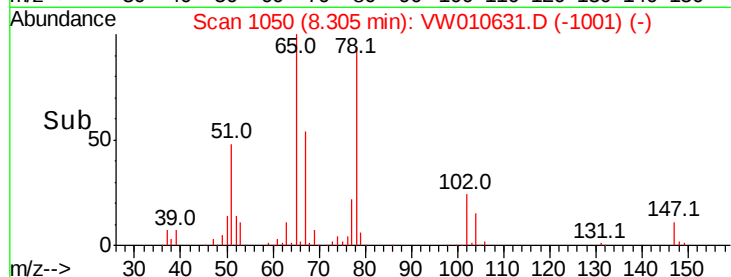
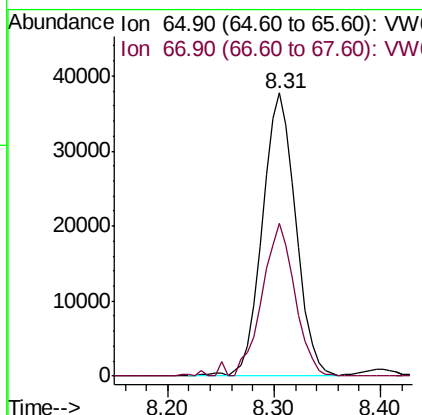
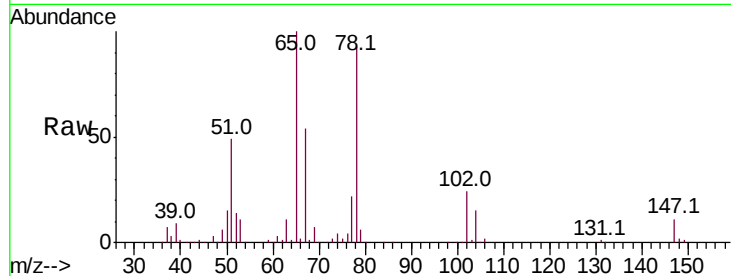
#33
 1,2-Dichloroethane-d4
 Concen: 46.259 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW010631.D
 Acq: 31 May 2019 12:43

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0531SBS01

Tot Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	103.6

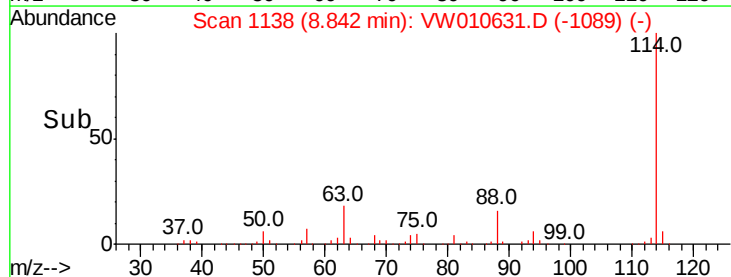
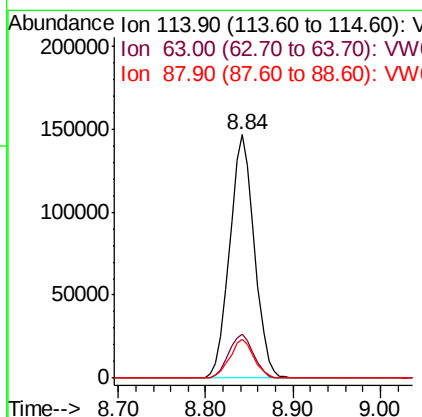
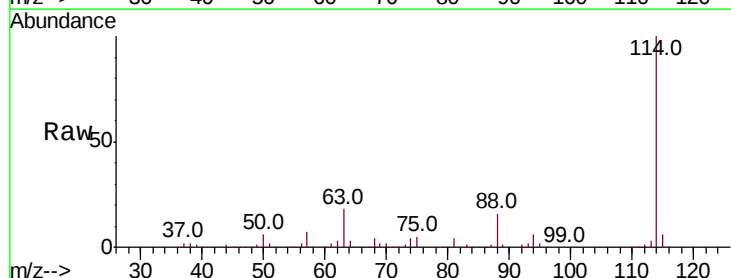
Manual Integrations
 APPROVED

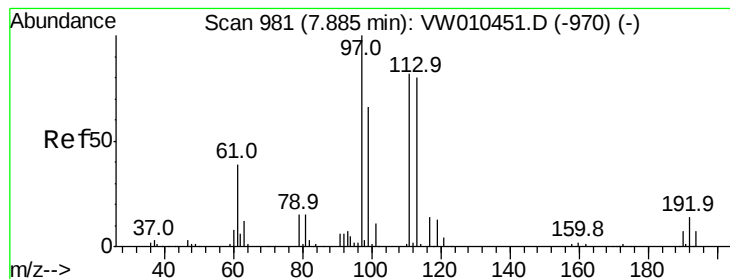
MMDadoda
 6/4/2019 8:44:28 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW010631.D
 Acq: 31 May 2019 12:43

Tgt Ion	Ratio	Lower	Upper
114	100		
63	17.9	0.0	36.0
88	15.7	0.0	32.0





#35

Dibromofluoromethane

Concen: 49.866 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW010631.D

Acq: 31 May 2019 12:43

Instrument :

MSVOA_W

ClientSampleId :

VW0531SBS01

Tot Ion:113 Resp: 86773

Ion Ratio Lower Upper

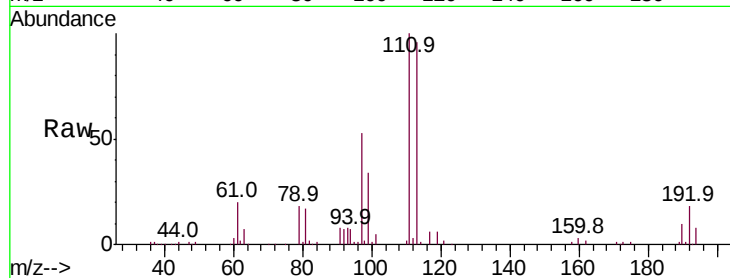
113 100

111 102.7 82.2 123.4

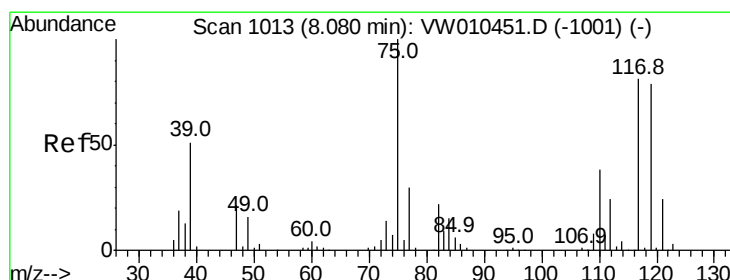
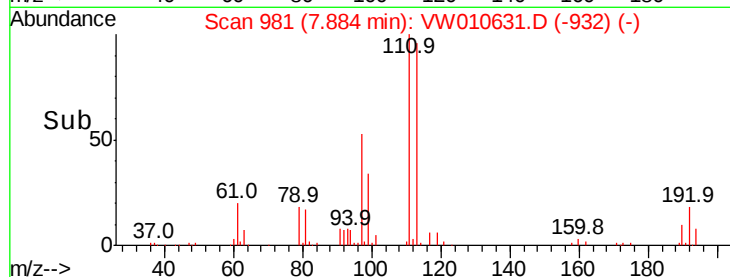
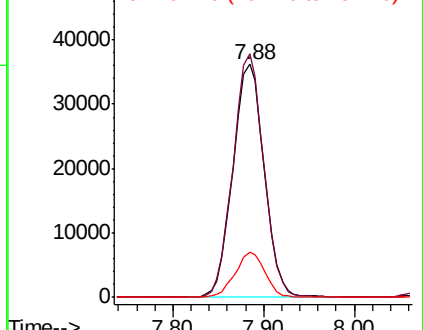
192 18.3 14.3 21.5

Manual Integrations
APPROVED

MMDadoda
6/4/2019 8:44:28 AM



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 21.405 ug/l

RT: 8.08 min Scan# 1013

Delta R.T. -0.00 min

Lab File: VW010631.D

Acq: 31 May 2019 12:43

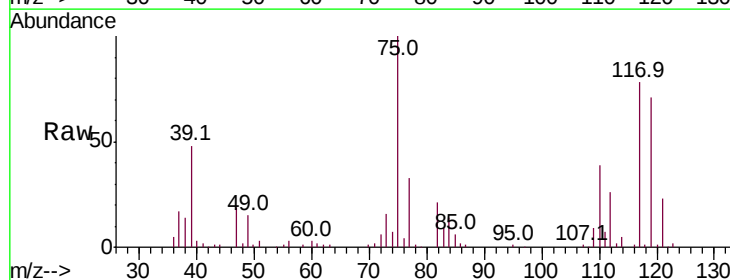
Tgt Ion: 75 Resp: 57184

Ion Ratio Lower Upper

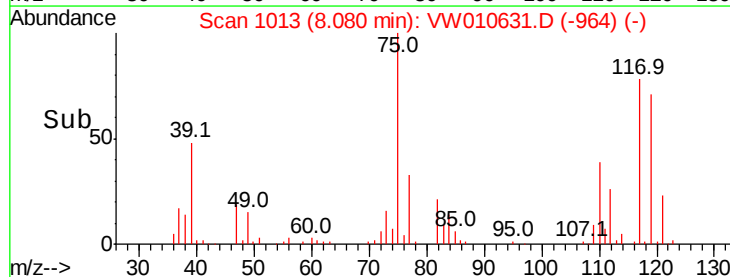
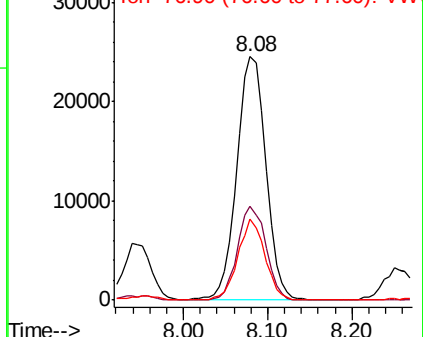
75 100

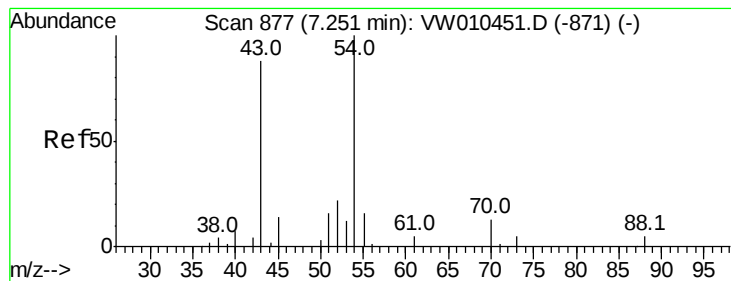
110 37.5 19.2 57.6

77 30.7 25.2 37.8



Abundance Ion 74.90 (74.60 to 75.60): VW
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VW





#37

Ethyl Acetate

Concen: 18.222 ug/l

RT: 7.25 min Scan# 877

Delta R.T. -0.00 min

Lab File: VW010631.D

Acq: 31 May 2019 12:43

Instrument :

MSVOA_W

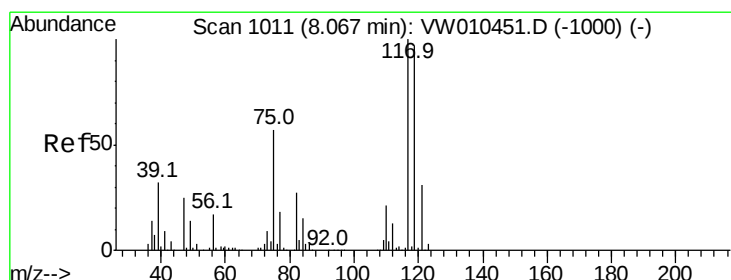
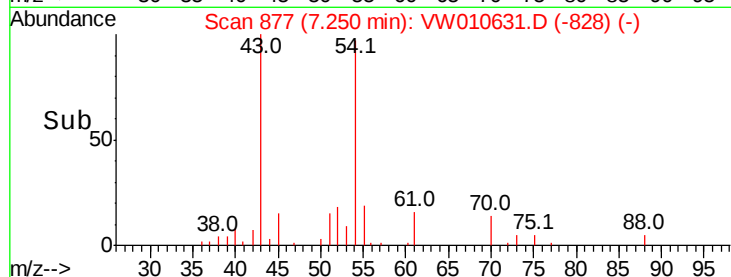
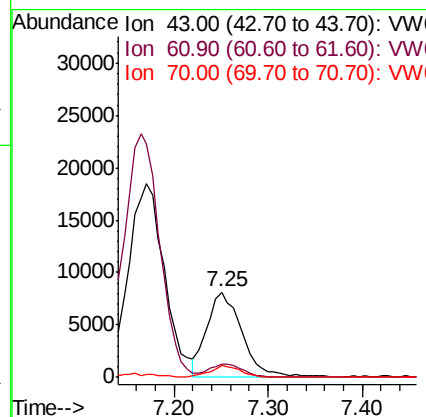
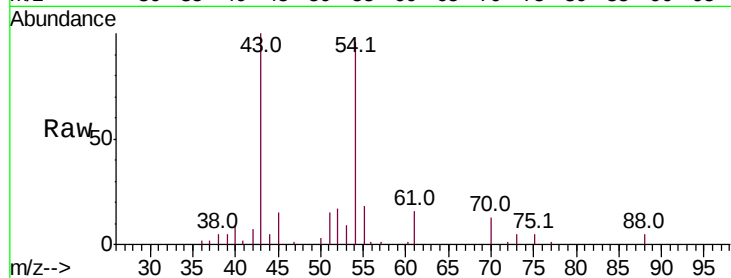
ClientSampleId :

VW0531SBS01

Tot Ion:	43	Resp:	20701
Ion	Ratio	Lower	Upper
43	100		
61	14.9	11.2	16.8
70	12.3	9.9	14.9

Manual Integrations
APPROVED

MMDadoda
6/4/2019 8:44:28 AM



#38

Carbon Tetrachloride

Concen: 21.436 ug/l

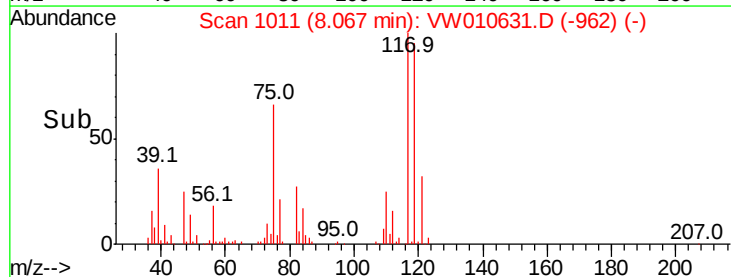
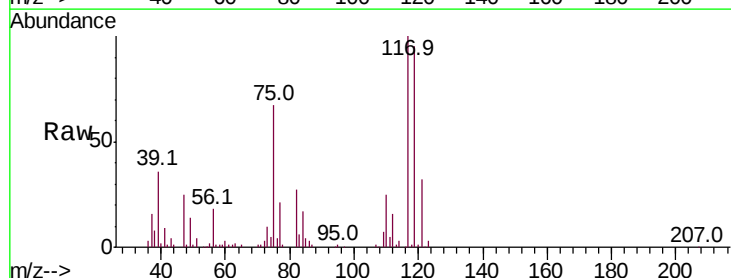
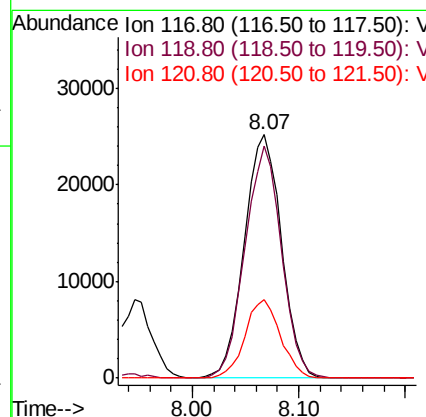
RT: 8.07 min Scan# 1011

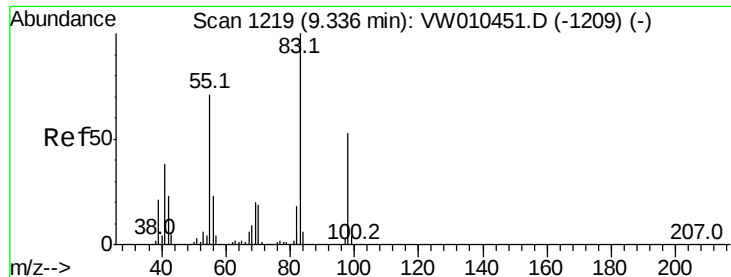
Delta R.T. -0.00 min

Lab File: VW010631.D

Acq: 31 May 2019 12:43

Tgt Ion:	117	Resp:	61777
Ion	Ratio	Lower	Upper
117	100		
119	95.1	77.4	116.0
121	32.2	25.0	37.6





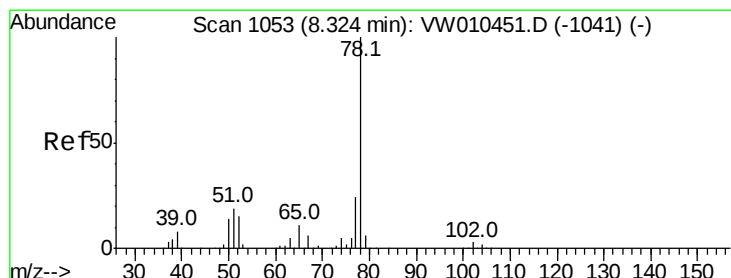
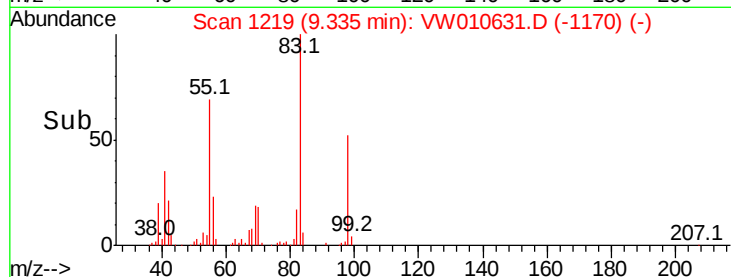
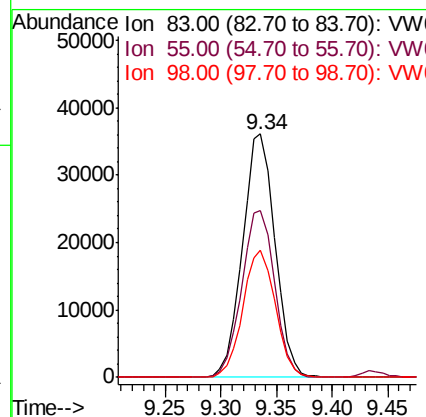
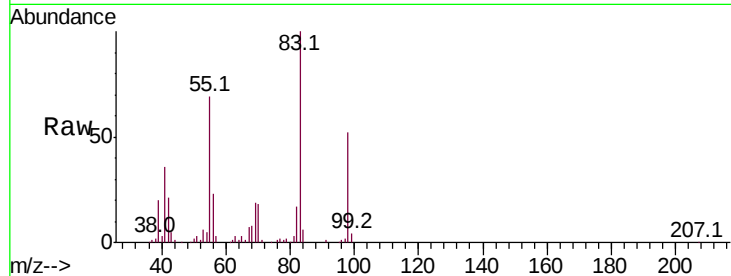
#39
Methvlcvclohexane
Concen: 20.443 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Instrument :
MSVOA_W
ClientSampleId :
VW0531SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	68.8	57.0	85.6
98	52.4	42.0	63.0

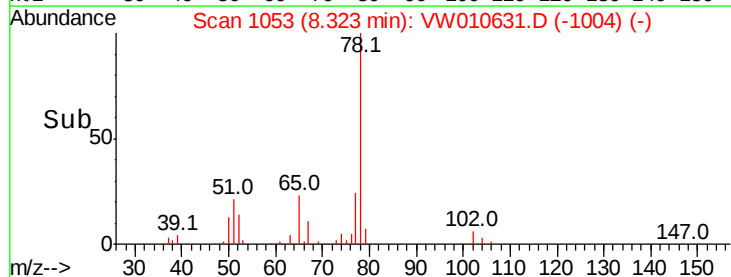
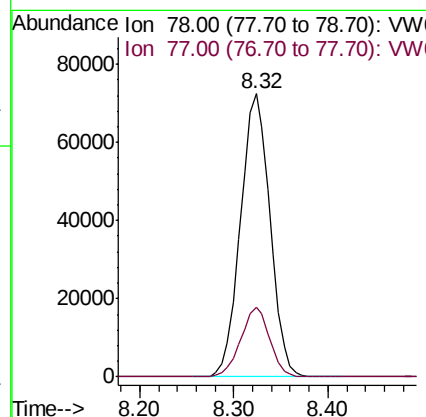
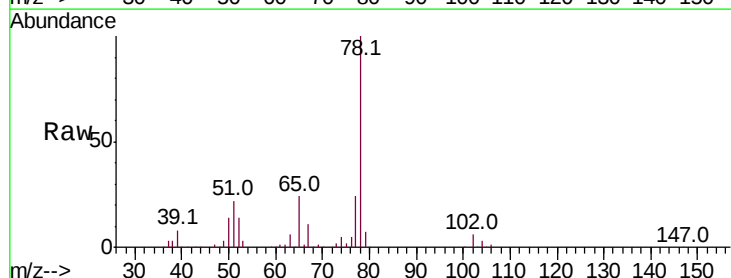
Manual Integrations
APPROVED

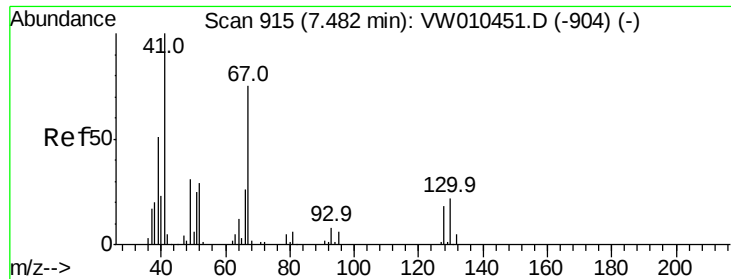
MMDadoda
6/4/2019 8:44:28 AM



#40
Benzene
Concen: 21.332 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.5	18.9	28.3





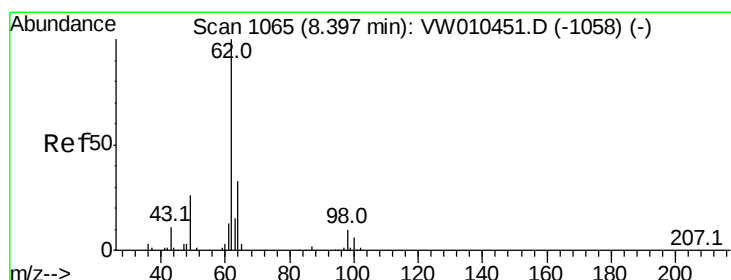
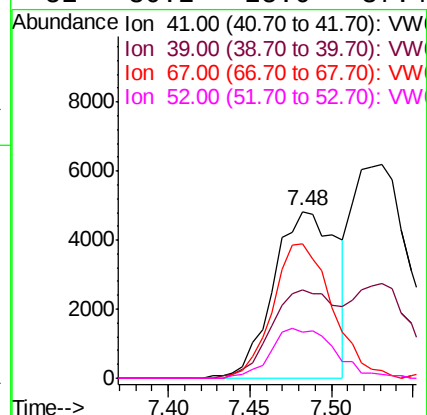
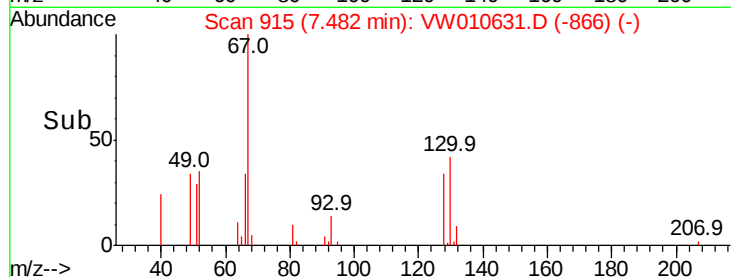
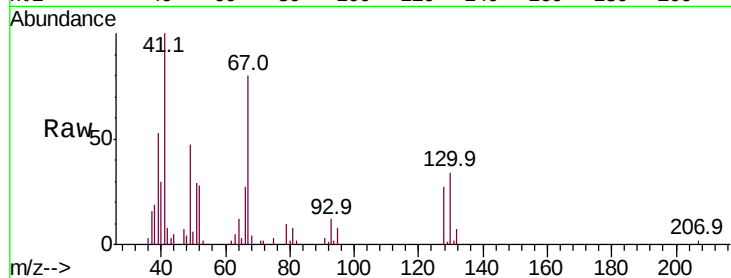
#41
Methacrylonitrile
Concen: 19.336 ug/l
RT: 7.48 min Scan# 915
Delta R.T. -0.00 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Instrument :
MSVOA_W
ClientSampleId :
VW0531SBS01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	55.1	47.4	71.2	
67	75.5	65.5	98.3	
52	30.2	25.0	37.4	

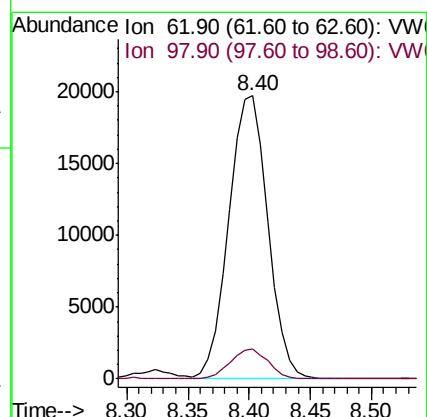
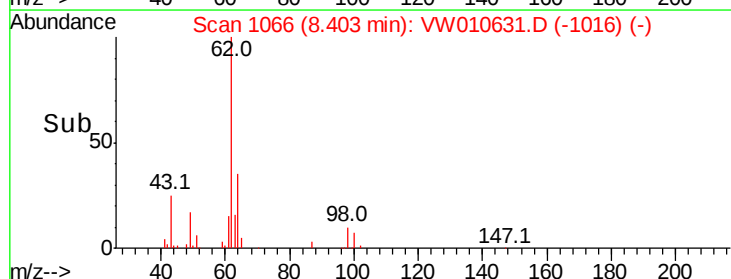
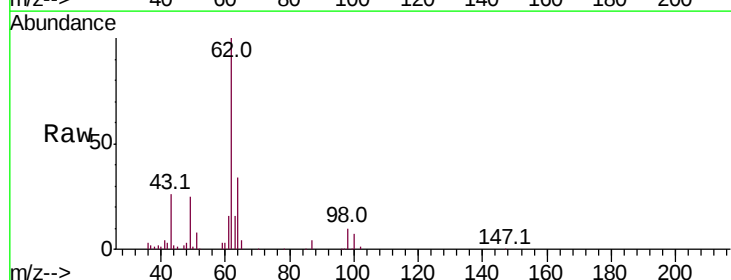
Manual Integrations
APPROVED

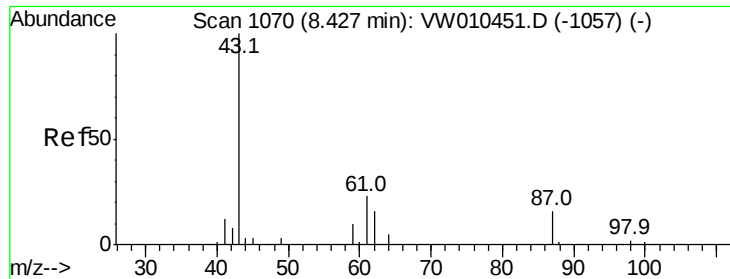
MMDadoda
6/4/2019 8:44:28 AM



#42
1,2-Dichloroethane
Concen: 20.561 ug/l
RT: 8.40 min Scan# 1066
Delta R.T. 0.01 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	10.2	0.0	21.0	





#43

Isopropyl Acetate

Concen: 17.934 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. -0.00 min

Lab File: VW010631.D

Acq: 31 May 2019 12:43

Instrument :

MSVOA_W

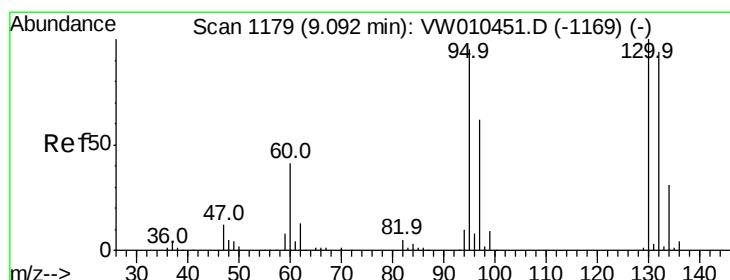
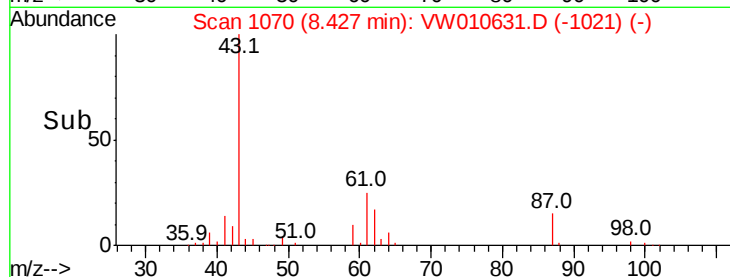
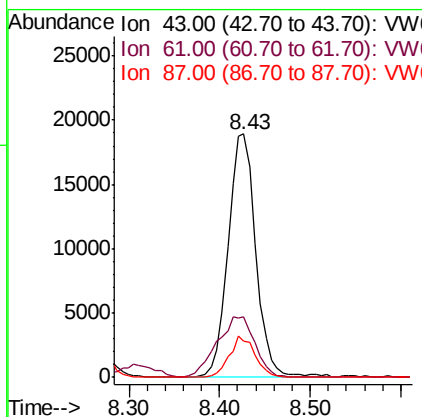
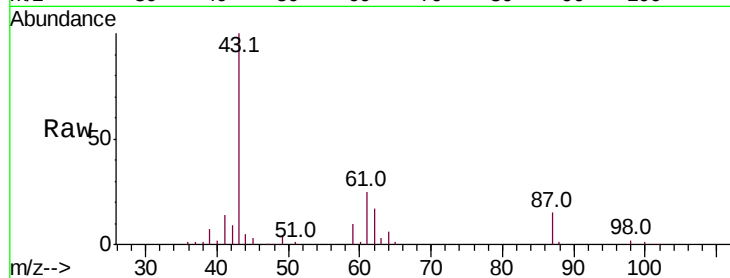
ClientSampleId :

VW0531SBS01

Tot Ion:	43	Resp:	40703
Ion	Ratio	Lower	Upper
43	100		
61	34.0	25.4	38.2
87	15.6	12.7	19.1

Manual Integrations
APPROVED

MMDadoda
6/4/2019 8:44:28 AM



#44

Trichloroethene

Concen: 21.856 ug/l

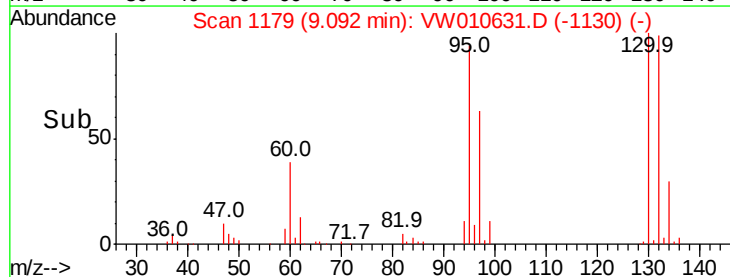
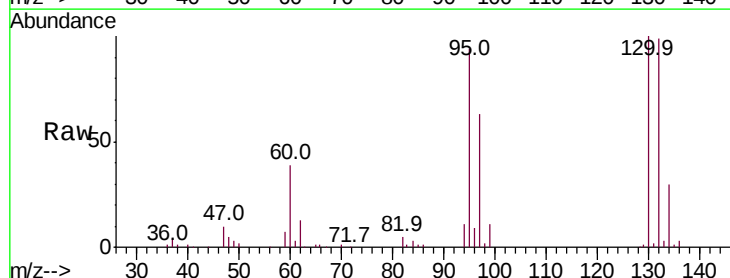
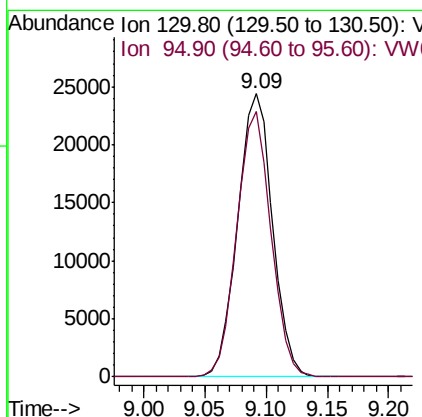
RT: 9.09 min Scan# 1179

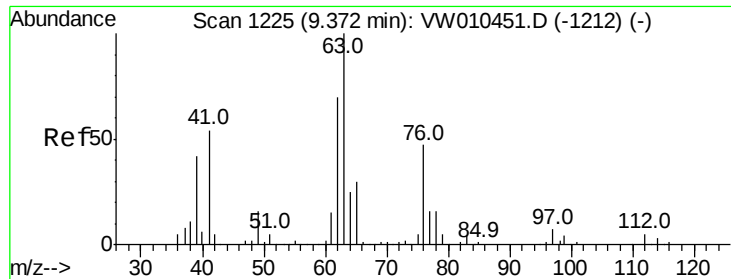
Delta R.T. -0.00 min

Lab File: VW010631.D

Acq: 31 May 2019 12:43

Tgt Ion:	130	Resp:	48180
Ion	Ratio	Lower	Upper
130	100		
95	93.8	0.0	189.6





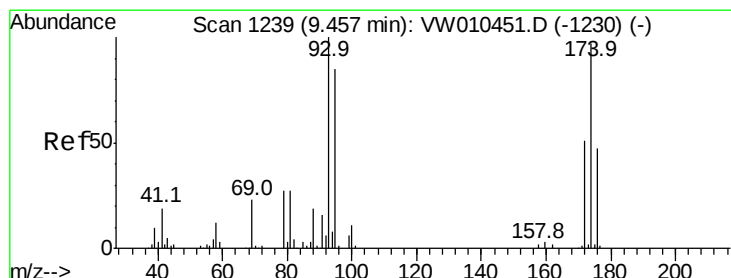
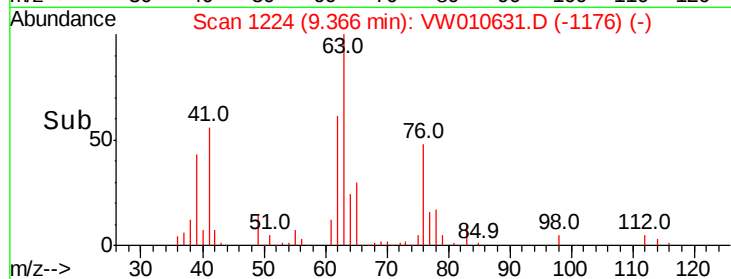
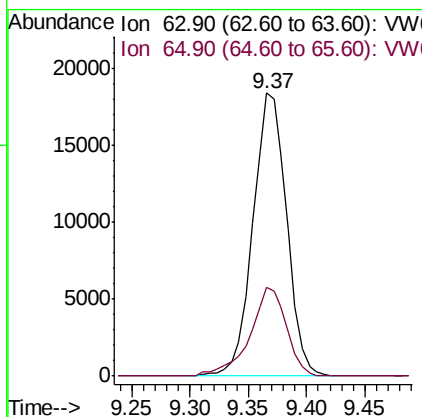
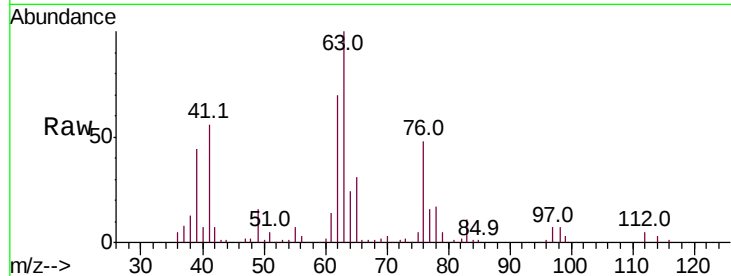
#45
 1,2-Dichloropropane
 Concen: 21.039 ug/l
 RT: 9.37 min Scan# 1224
 Delta R.T. -0.01 min
 Lab File: VW010631.D
 Acq: 31 May 2019 12:43

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0531SBS01

Tot Ion: 63 Resp: 37103
 Ion Ratio Lower Upper
 63 100
 65 31.2 24.3 36.5

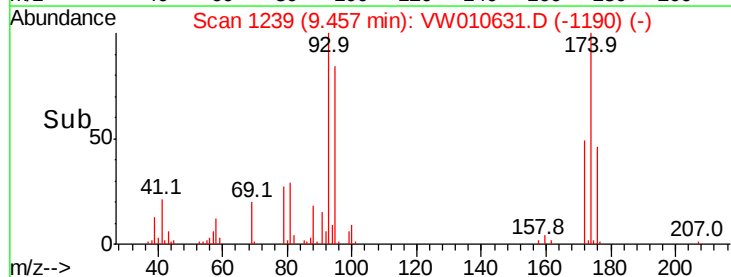
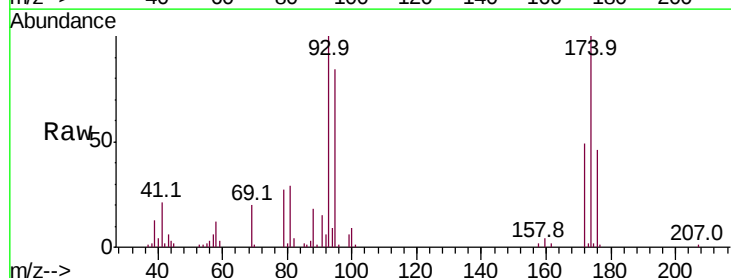
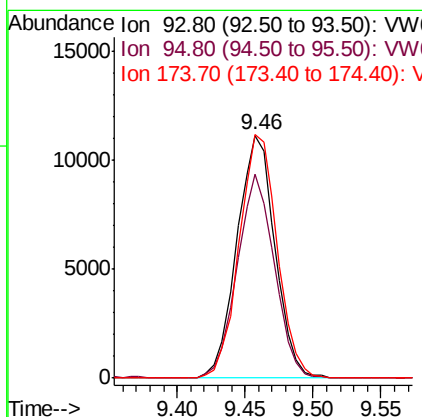
Manual Integrations
 APPROVED

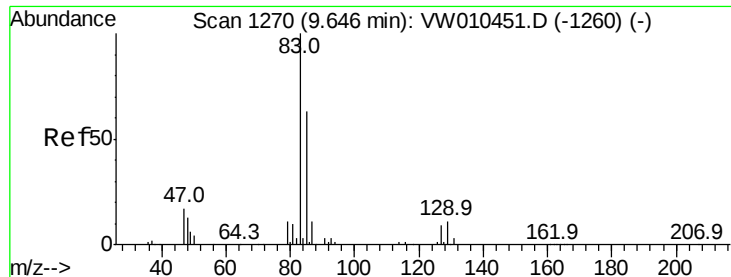
MMDadoda
 6/4/2019 8:44:28 AM



#46
 Dibromomethane
 Concen: 21.023 ug/l
 RT: 9.46 min Scan# 1239
 Delta R.T. -0.00 min
 Lab File: VW010631.D
 Acq: 31 May 2019 12:43

Tgt Ion: 93 Resp: 21682
 Ion Ratio Lower Upper
 93 100
 95 82.2 66.1 99.1
 174 100.3 77.1 115.7





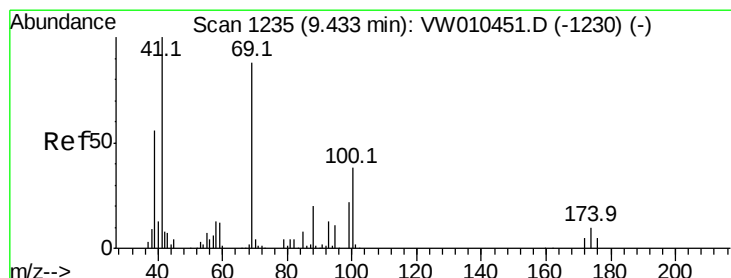
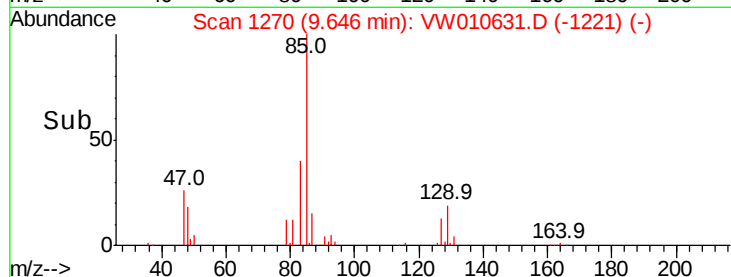
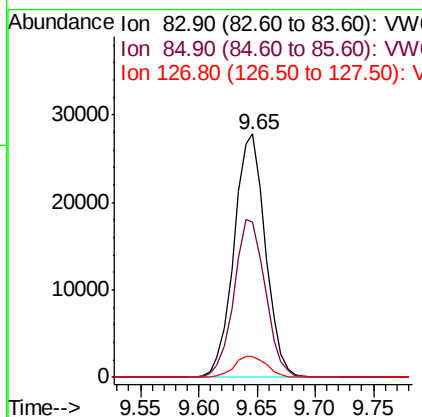
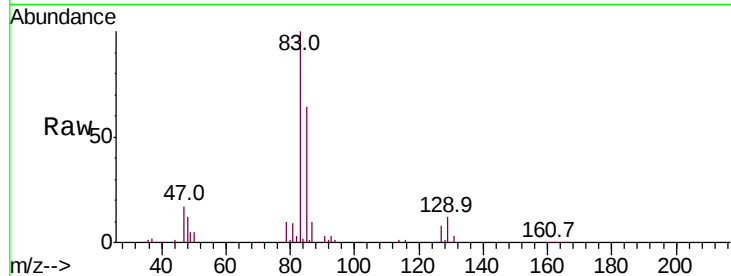
#47
 Bromodichloromethane
 Concen: 20.161 ug/l
 RT: 9.65 min Scan# 1270
 Delta R.T. -0.00 min
 Lab File: VW010631.D
 Acq: 31 May 2019 12:43

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0531SBS01

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
85	63.7	50.4	75.6	
127	8.5	7.4	11.0	

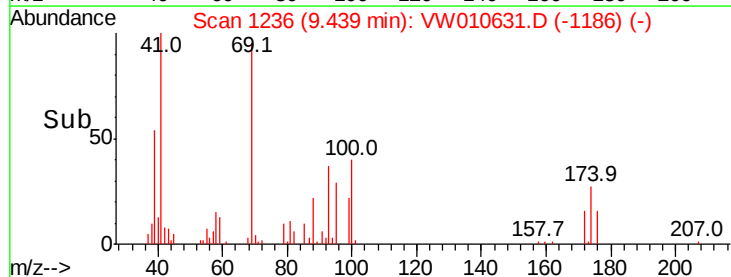
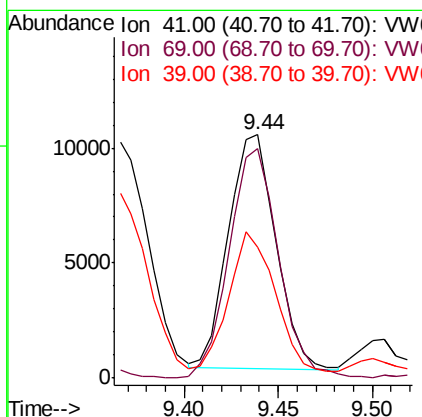
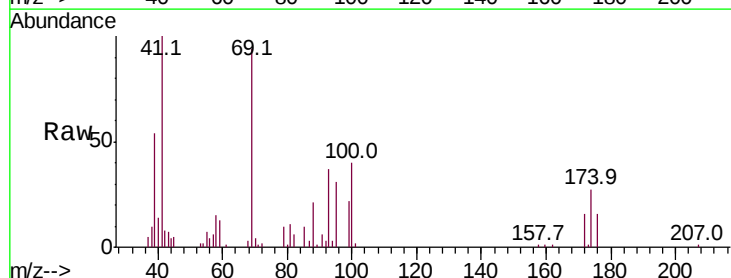
Manual Integrations
 APPROVED

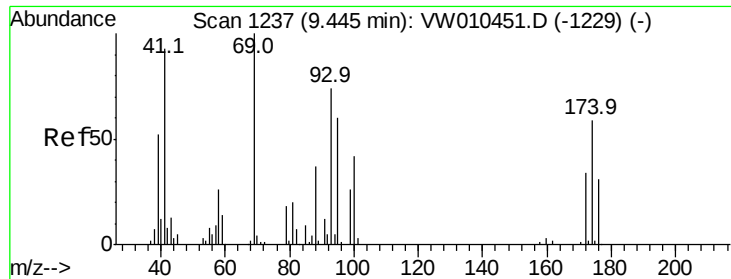
MMDadoda
 6/4/2019 8:44:28 AM



#48
 Methyl methacrylate
 Concen: 17.253 ug/l
 RT: 9.44 min Scan# 1236
 Delta R.T. 0.01 min
 Lab File: VW010631.D
 Acq: 31 May 2019 12:43

Tgt Ion	Ratio	Resp	Lower	Upper
41	100			
69	101.9	77.6	116.4	
39	64.7	49.8	74.8	





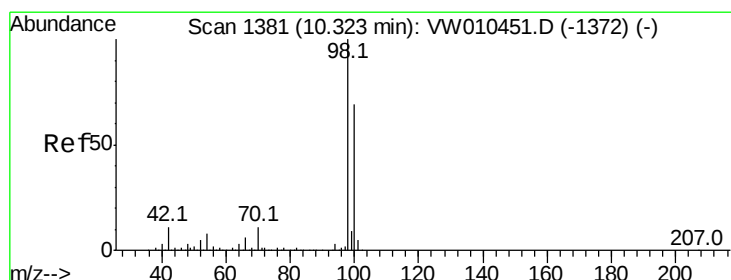
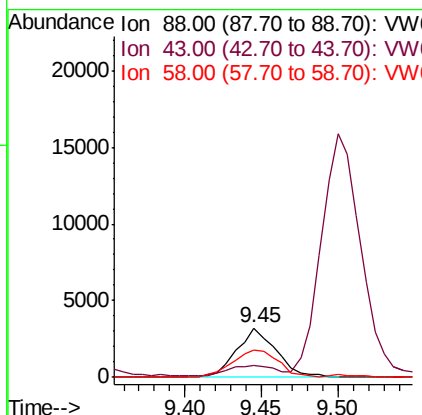
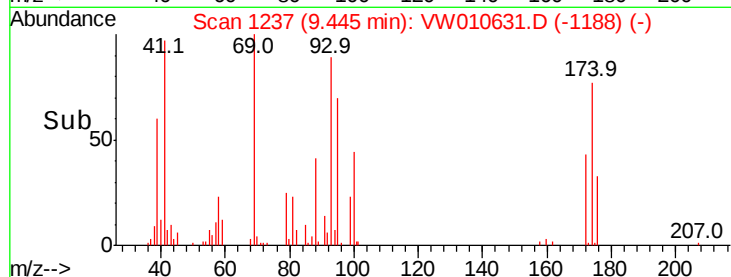
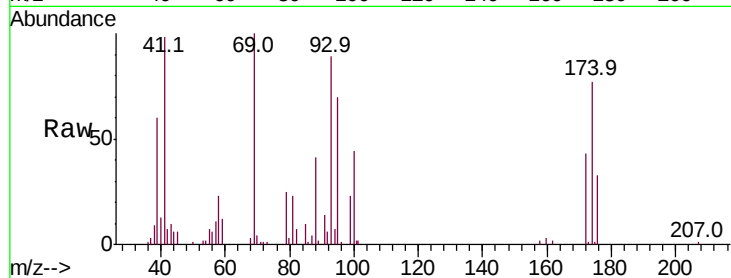
#49
1,4-Dioxane
Concen: 343.139 ug/l
RT: 9.45 min Scan# 1237
Delta R.T. -0.00 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Instrument :
MSVOA_W
ClientSampleId :
VW0531SBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	29.5	25.9	38.9
58	65.5	52.7	79.1

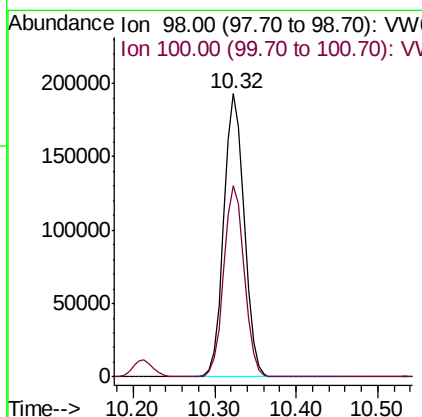
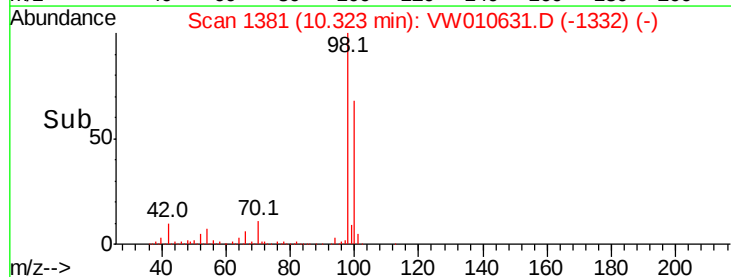
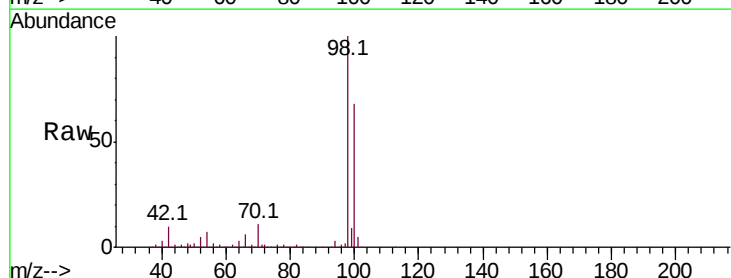
Manual Integrations
APPROVED

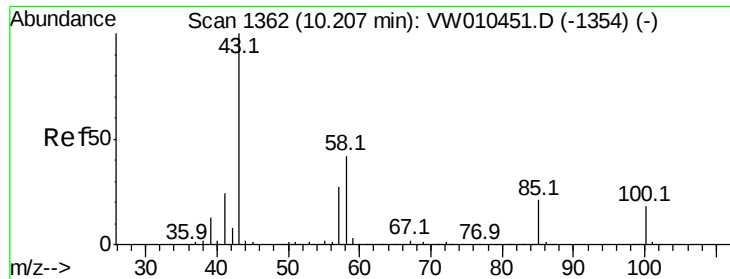
MMDadoda
6/4/2019 8:44:28 AM



#50
Toluene-d8
Concen: 50.011 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Tgt Ion	Ratio	Lower	Upper
98	100		
100	67.9	53.7	80.5





#51

4-Methyl-2-Pentanone

Concen: 90.877 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW010631.D

Acq: 31 May 2019 12:43

Instrument :

MSVOA_W

ClientSampleId :

VW0531SBS01

Tot Ion: 43 Resp: 104513

Ion Ratio Lower Upper

43 100

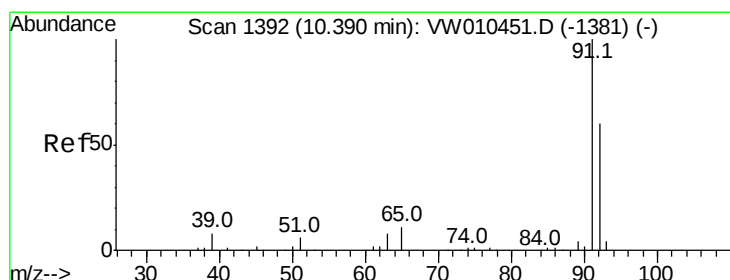
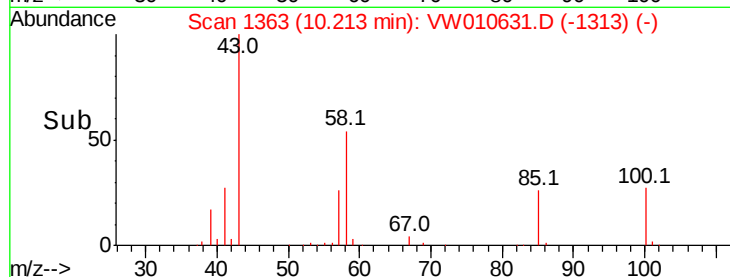
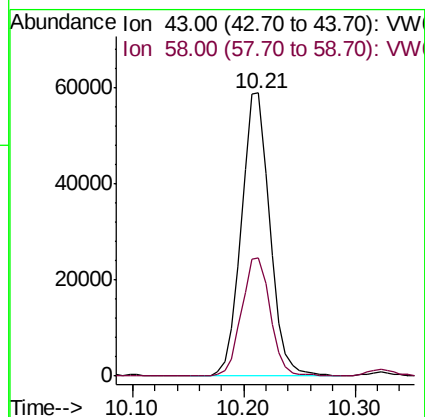
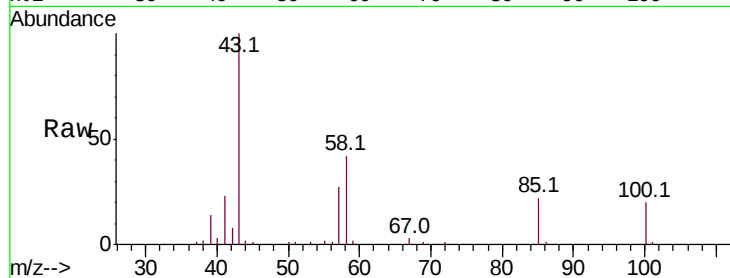
58 42.3 33.2 49.8

Manual Integrations

APPROVED

MMDadoda

6/4/2019 8:44:28 AM



#52

Toluene

Concen: 21.694 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW010631.D

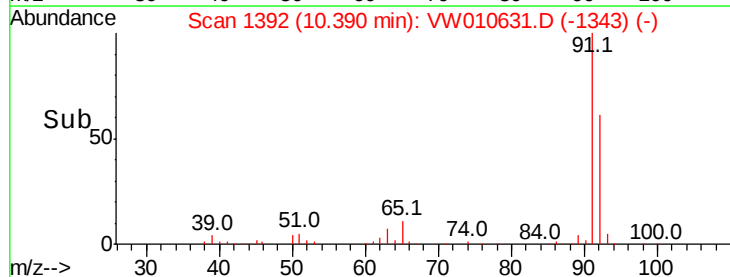
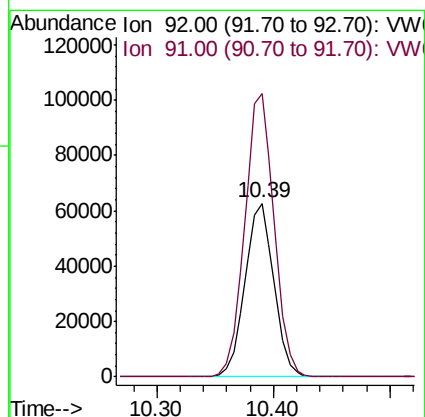
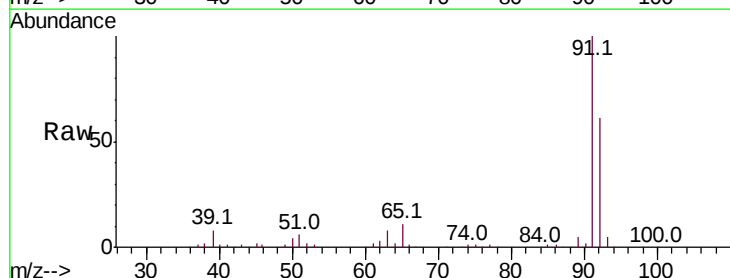
Acq: 31 May 2019 12:43

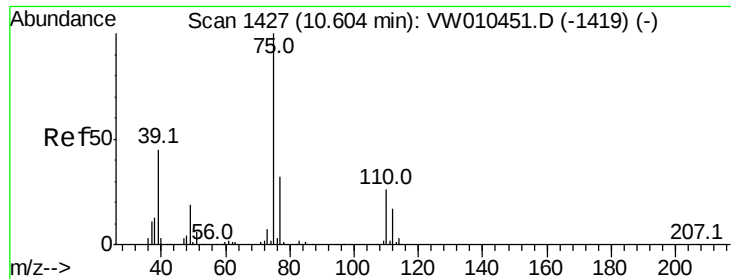
Tgt Ion: 92 Resp: 108182

Ion Ratio Lower Upper

92 100

91 166.2 135.4 203.0





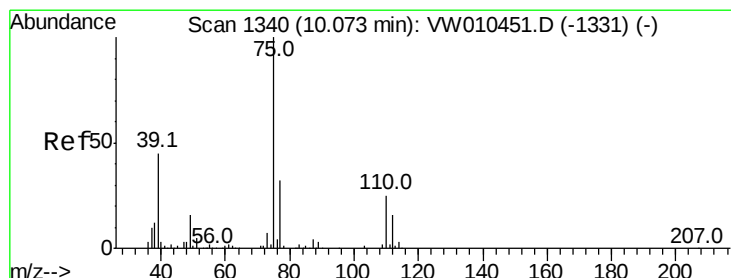
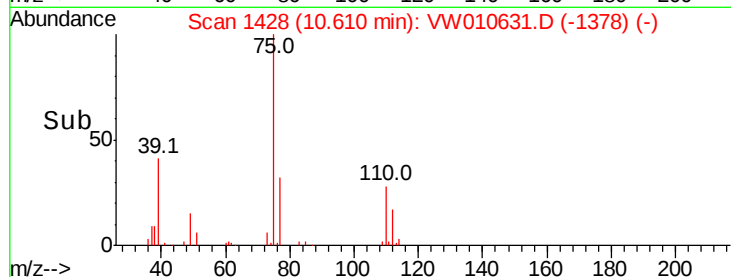
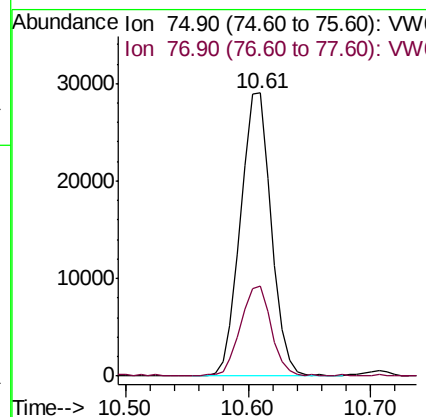
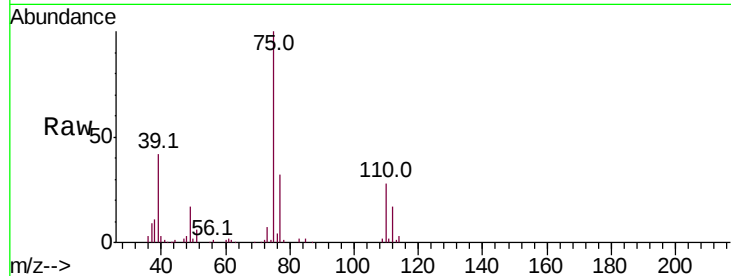
#53
 t-1,3-Dichloropropene
 Concen: 19.257 ug/l
 RT: 10.61 min Scan# 1428
 Delta R.T. 0.01 min
 Lab File: VW010631.D
 Acq: 31 May 2019 12:43

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0531SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.4	38.0

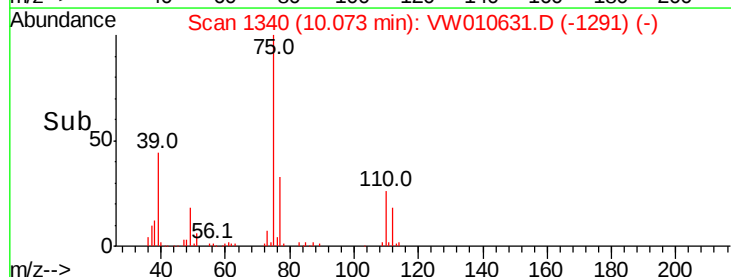
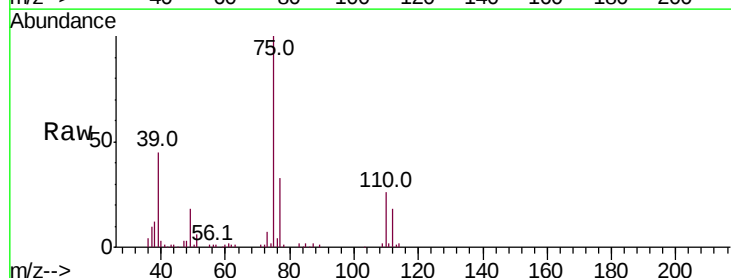
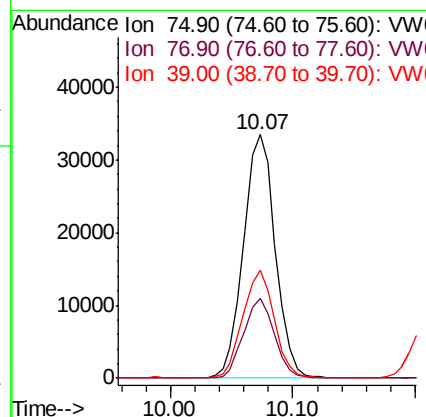
Manual Integrations
 APPROVED

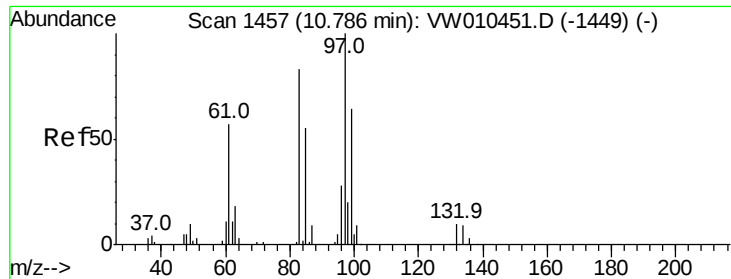
MMDadoda
 6/4/2019 8:44:28 AM



#54
 cis-1,3-Dichloropropene
 Concen: 20.075 ug/l
 RT: 10.07 min Scan# 1340
 Delta R.T. -0.00 min
 Lab File: VW010631.D
 Acq: 31 May 2019 12:43

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.7	25.7	38.5
39	44.5	36.2	54.4





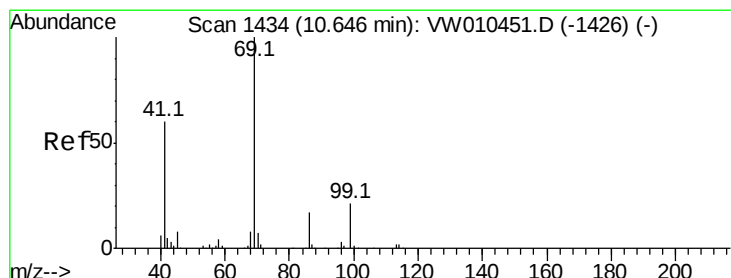
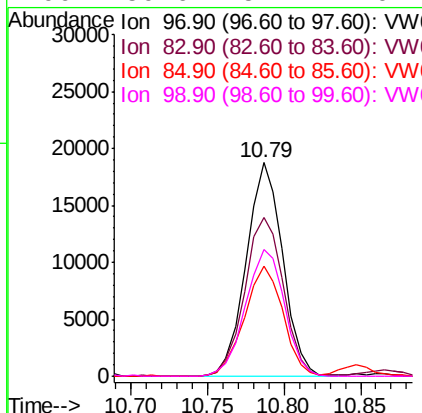
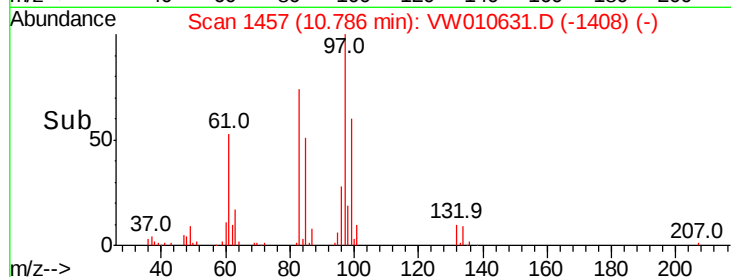
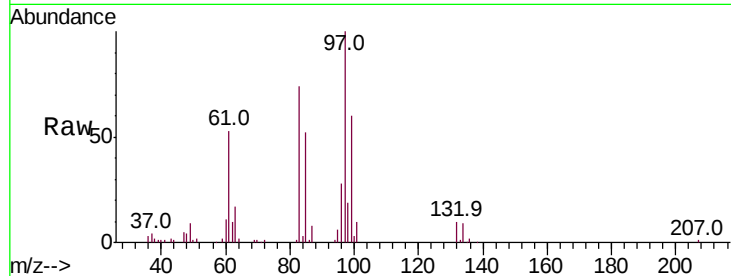
#55
 1,1,2-Trichloroethane
 Concen: 21.046 ug/l
 RT: 10.79 min Scan# 1457
 Delta R.T. -0.00 min
 Lab File: VW010631.D
 Acq: 31 May 2019 12:43

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0531SBS01

Tot Ion	Ratio	Resp	Lower	Upper
97	100	31212		
83	74.5	66.1	99.1	
85	51.7	44.2	66.4	
99	59.6	51.1	76.7	

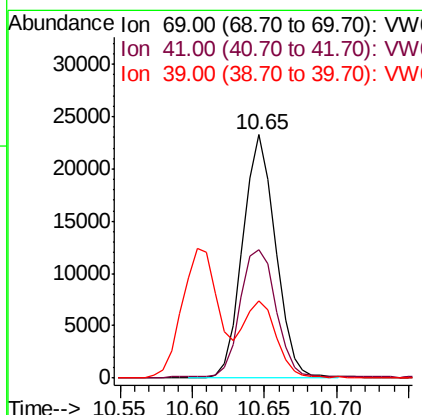
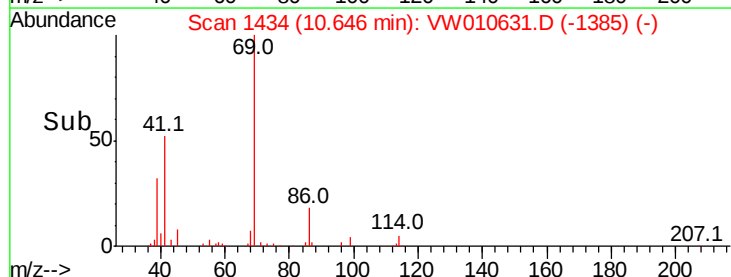
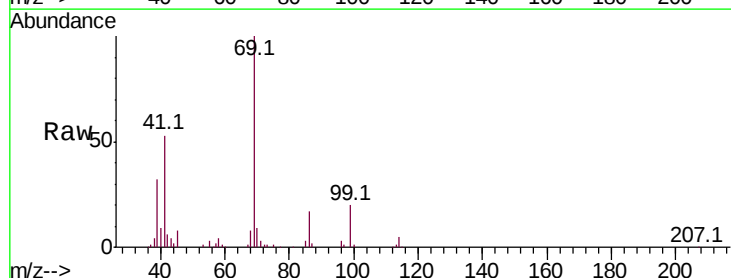
Manual Integrations
 APPROVED

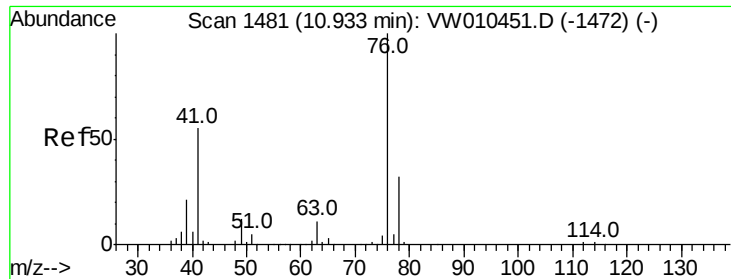
MMDadoda
 6/4/2019 8:44:28 AM



#56
 Ethyl methacrylate
 Concen: 18.092 ug/l
 RT: 10.65 min Scan# 1434
 Delta R.T. -0.00 min
 Lab File: VW010631.D
 Acq: 31 May 2019 12:43

Tgt Ion	Ratio	Resp	Lower	Upper
69	100	37005		
41	59.8	47.7	71.5	
39	31.1	25.3	37.9	





#57

1,3-Dichloropropane

Concen: 20.596 ug/l

RT: 10.93 min Scan# 1481

Delta R.T. -0.00 min

Lab File: VW010631.D

Acq: 31 May 2019 12:43

Instrument :
MSVOA_W

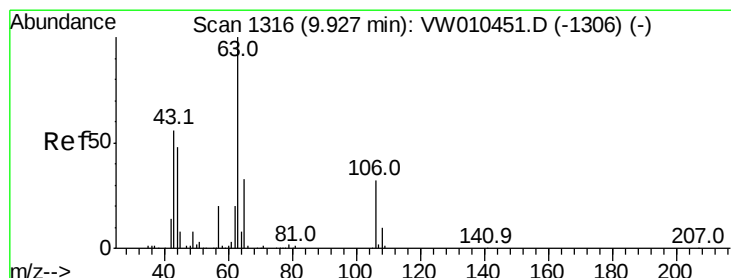
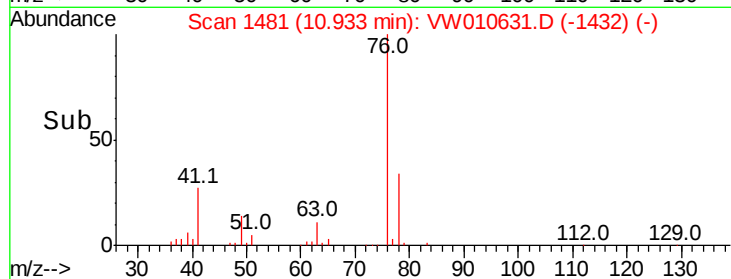
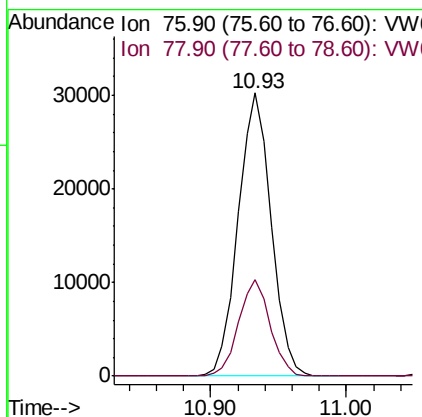
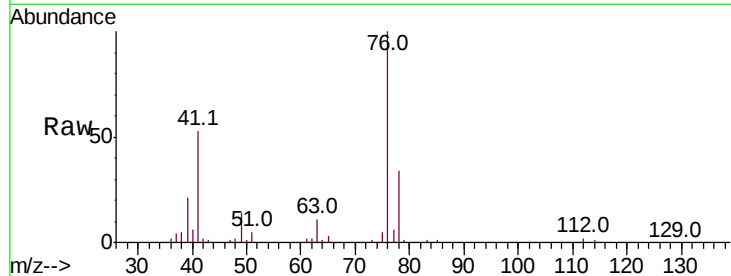
ClientSampleId :
VW0531SBS01

Tot Ion: 76 Resp: 51166

Ion	Ratio	Lower	Upper
76	100		
78	32.6	26.2	39.2

Manual Integrations
APPROVED

MMDadoda
6/4/2019 8:44:28 AM



#58

2-Chloroethyl Vinyl ether

Concen: 95.369 ug/l

RT: 9.93 min Scan# 1316

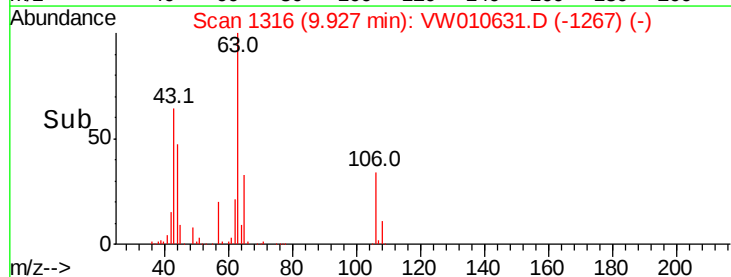
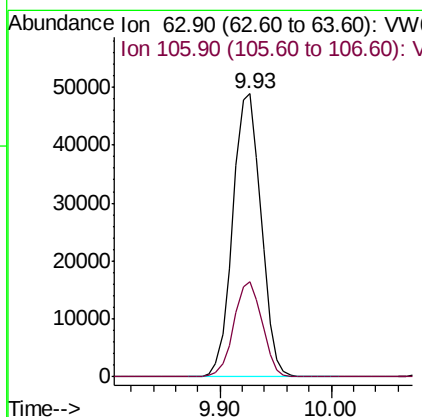
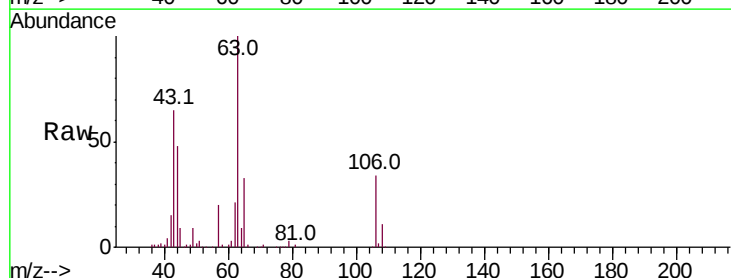
Delta R.T. -0.00 min

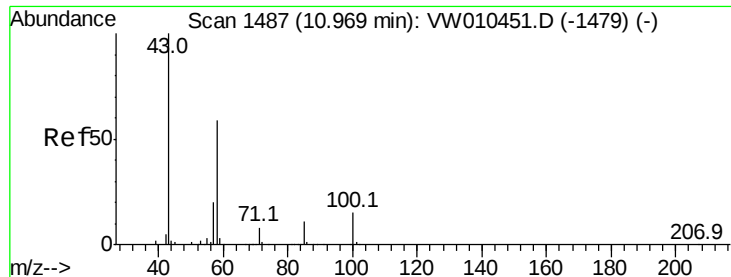
Lab File: VW010631.D

Acq: 31 May 2019 12:43

Tgt Ion: 63 Resp: 86401

Ion	Ratio	Lower	Upper
63	100		
106	33.4	25.8	38.6





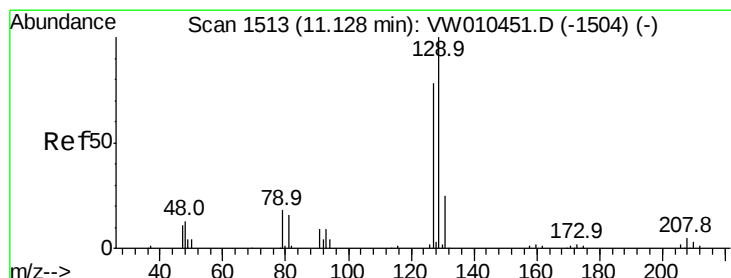
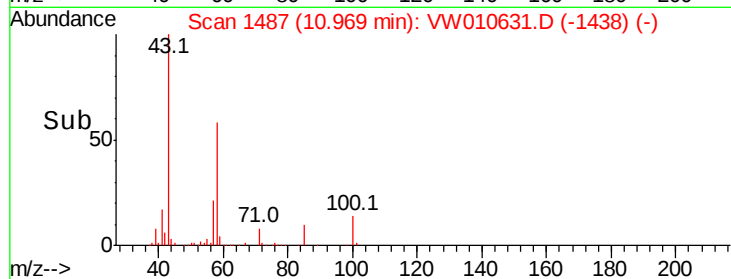
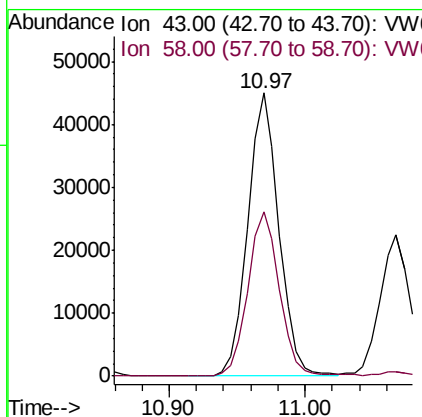
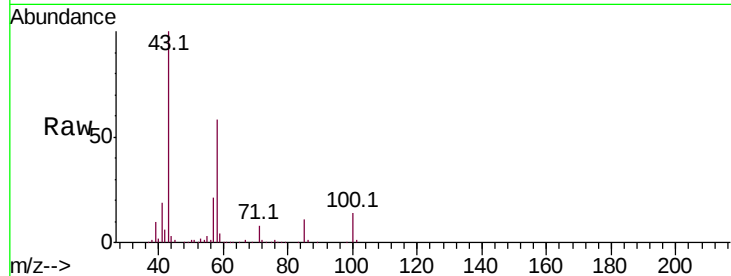
#59
2-Hexanone
Concen: 87.792 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Instrument :
MSVOA_W
ClientSampleId :
VW0531SBS01

Tot Ion	43	58	Ratio	100	58.9	Resp	72023	Lower	28.9	Upper	86.8
Ion	43	58	Ratio	100	58.9	Resp	72023	Lower	28.9	Upper	86.8

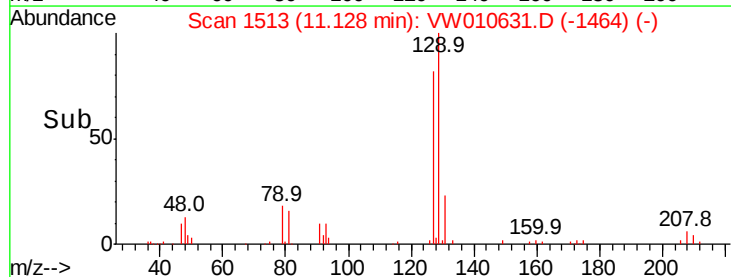
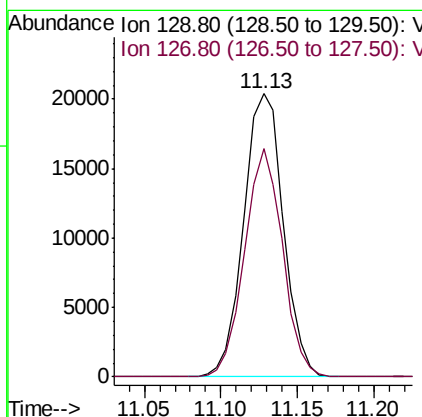
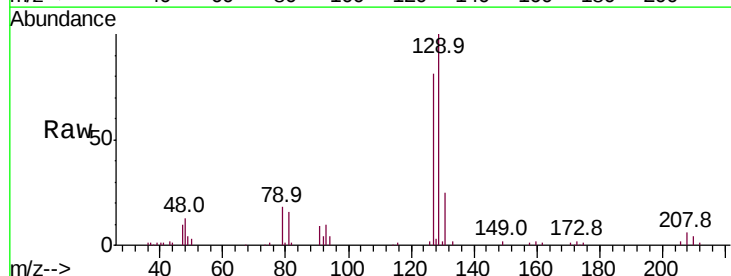
Manual Integrations
APPROVED

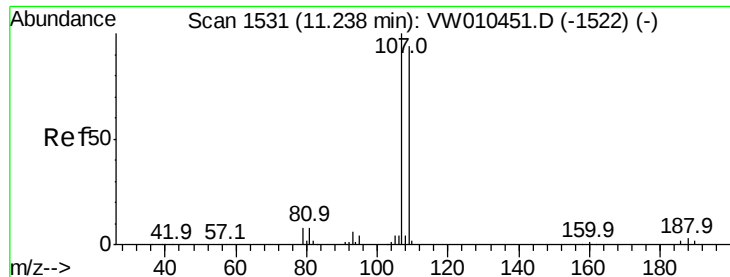
MMDadoda
6/4/2019 8:44:28 AM



#60
Dibromochloromethane
Concen: 19.564 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Tgt Ion	129	127	Ratio	100	77.3	Resp	36720	Lower	38.9	Upper	116.7
Ion	129	127	Ratio	100	77.3	Resp	36720	Lower	38.9	Upper	116.7





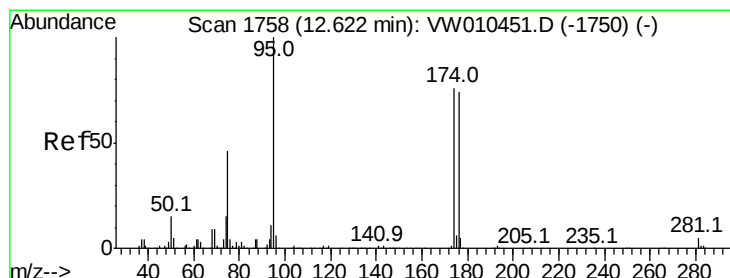
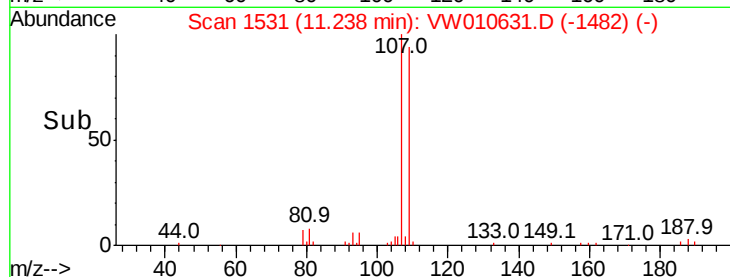
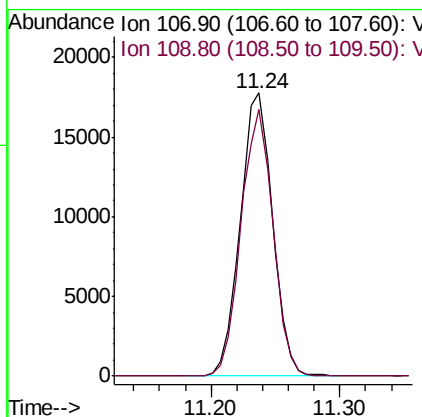
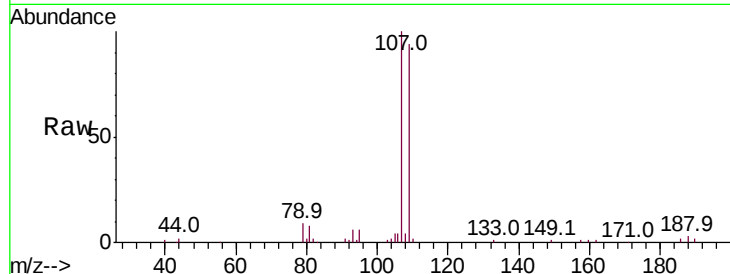
#61
 1,2-Dibromoethane
 Concen: 20.470 ug/l
 RT: 11.24 min Scan# 1531
 Delta R.T. -0.00 min
 Lab File: VW010631.D
 Acq: 31 May 2019 12:43

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0531SBS01

Tot Ion	Ratio	Lower	Upper
107	100		
109	92.7	75.0	112.4

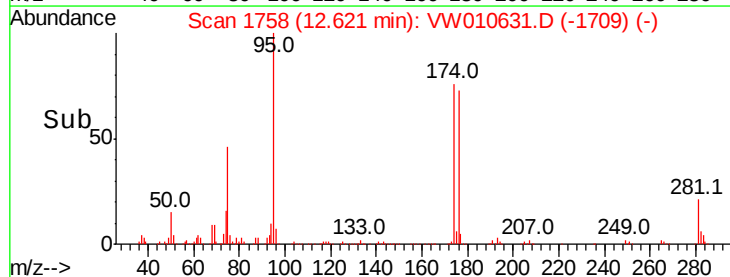
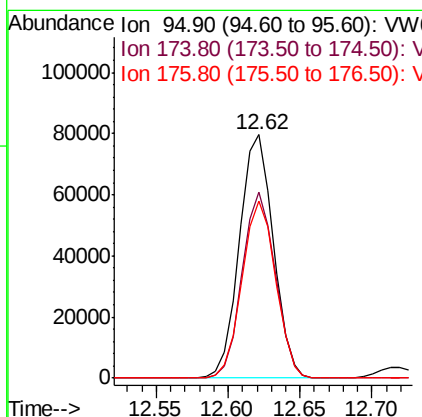
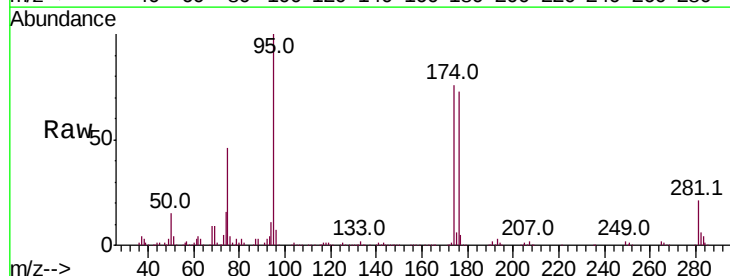
Manual Integrations
 APPROVED

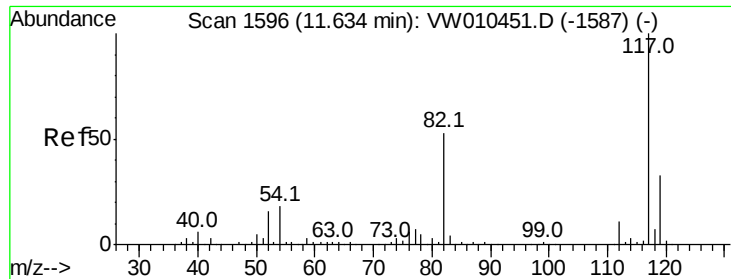
MMDadoda
 6/4/2019 8:44:28 AM



#62
 4-Bromofluorobenzene
 Concen: 49.076 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. -0.00 min
 Lab File: VW010631.D
 Acq: 31 May 2019 12:43

Tgt Ion	Ratio	Lower	Upper
95	100		
174	74.4	0.0	148.6
176	71.9	0.0	144.2





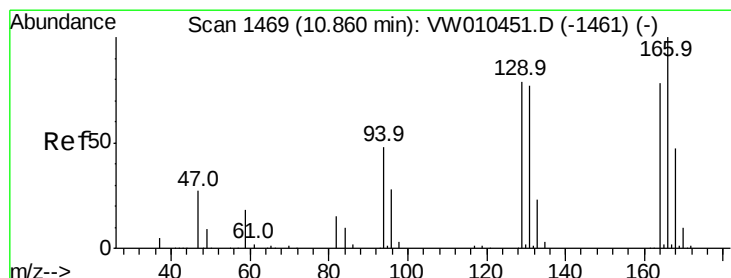
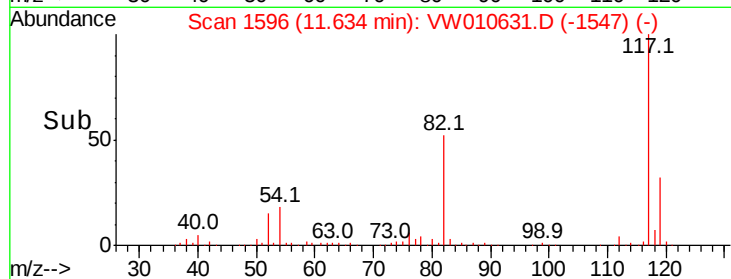
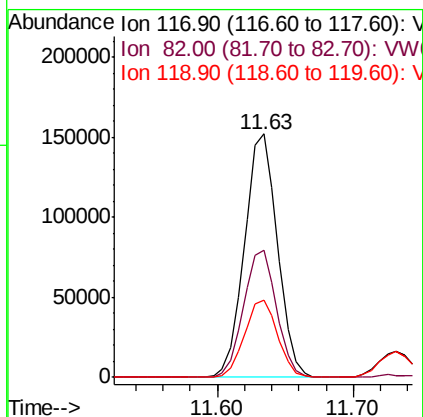
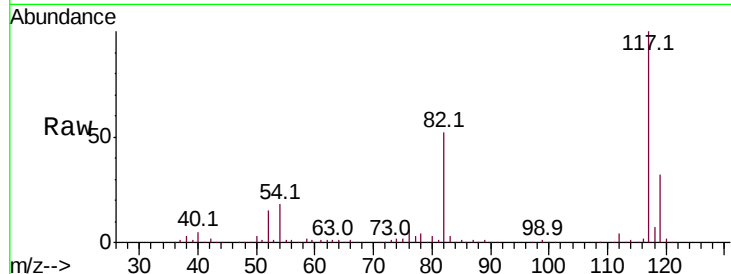
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Instrument :
MSVOA_W
ClientSampleId :
VW0531SBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	257395		
82	52.1		42.8	64.2
119	31.9		26.3	39.5

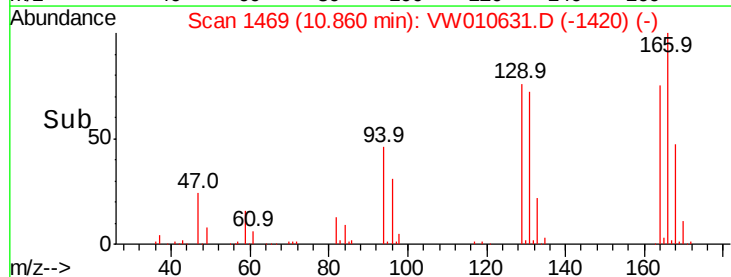
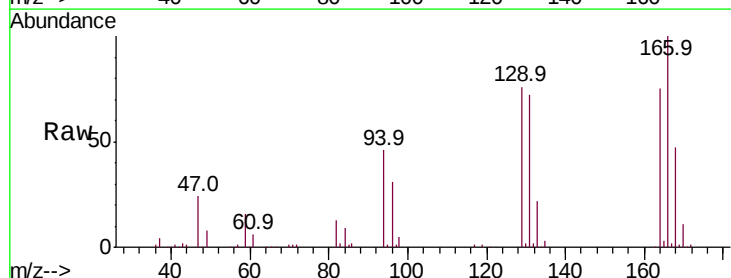
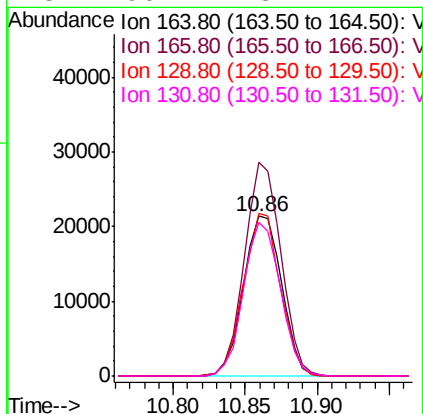
Manual Integrations
APPROVED

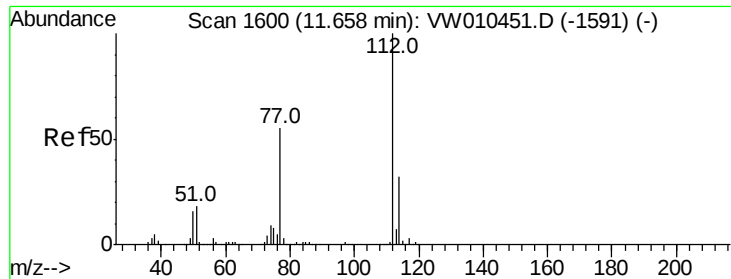
MMDadoda
6/4/2019 8:44:28 AM



#64
Tetrachloroethene
Concen: 21.752 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	39029		
166	134.0		101.9	152.9
129	101.7		80.6	121.0
131	96.7		78.2	117.2





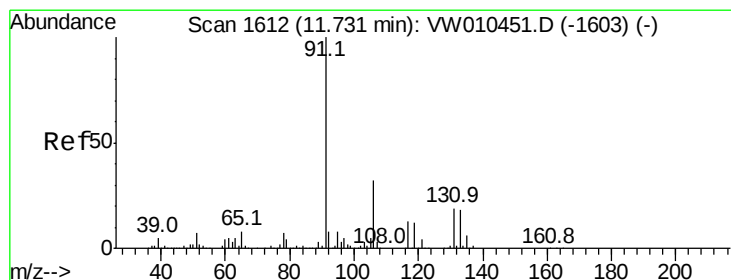
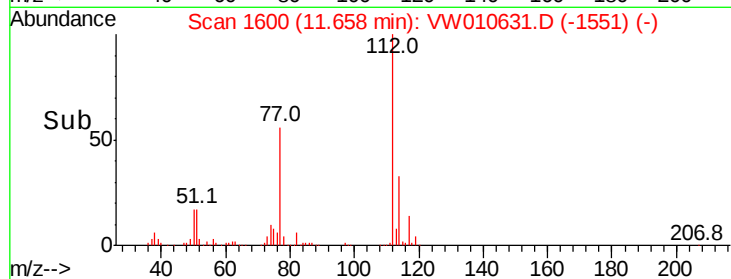
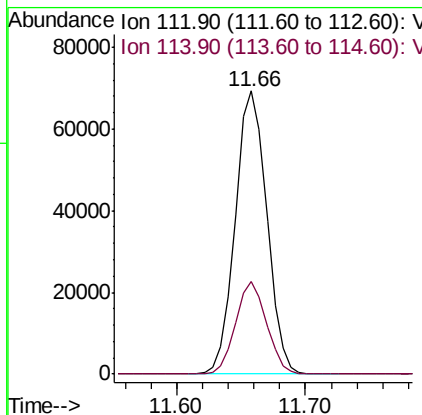
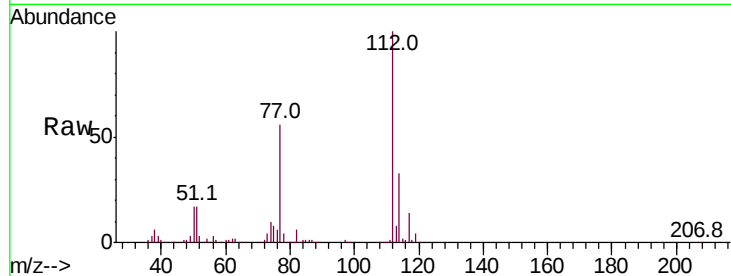
#65
Chlorobenzene
Concen: 21.482 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Instrument :
MSVOA_W
ClientSampleId :
VW0531SBS01

Tot Ion	Ratio	Resp	Lower	Upper
112	100	117841		
114	32.9	25.3	37.9	

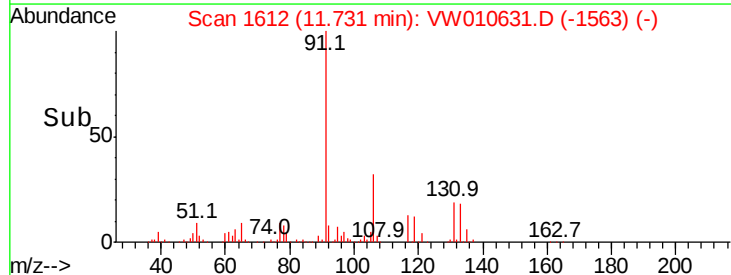
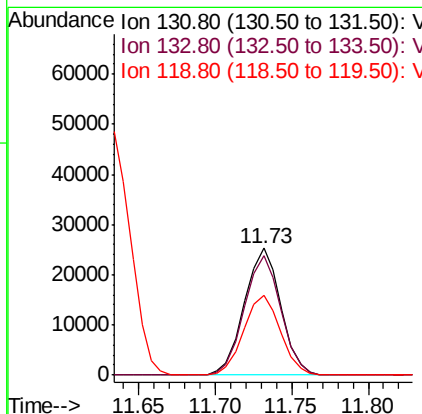
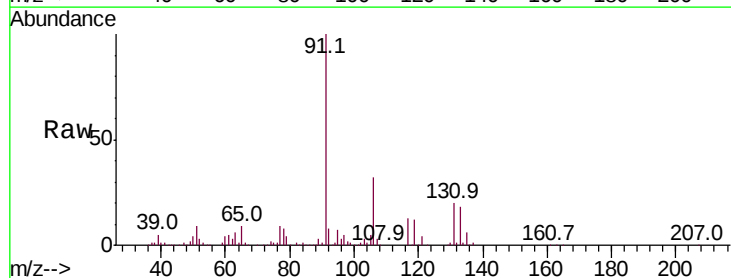
Manual Integrations
APPROVED

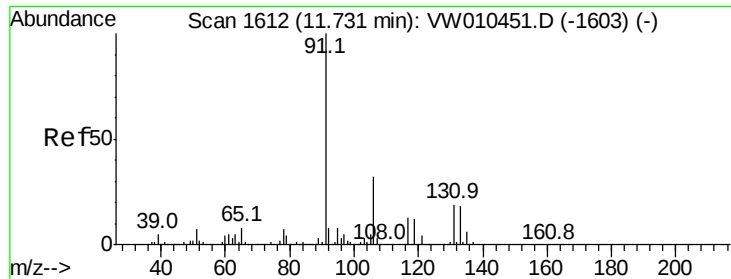
MMDadoda
6/4/2019 8:44:28 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 21.321 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	41898		
133	94.3	47.3	141.9	
119	63.2	32.1	96.5	





#67

Ethyl Benzene

Concen: 21.281 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW010631.D

Acq: 31 May 2019 12:43

Instrument :

MSVOA_W

ClientSampleId :

VW0531SBS01

Tot Ion: 91 Resp: 206114

Ion Ratio Lower Upper

91 100

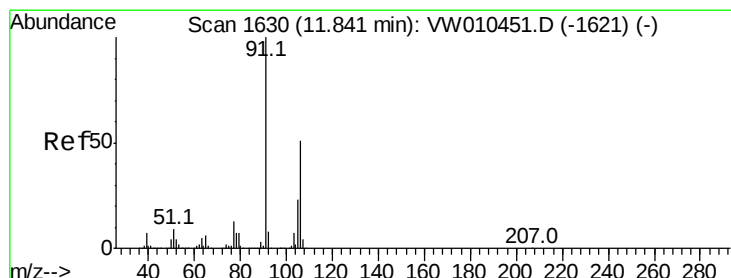
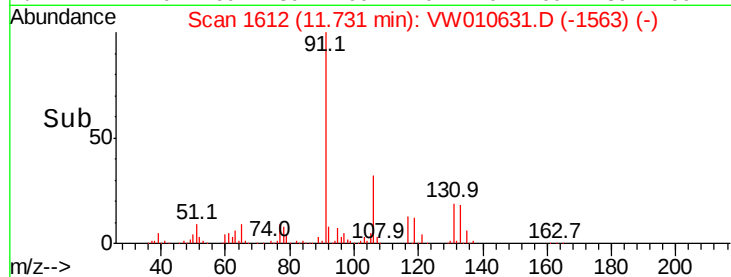
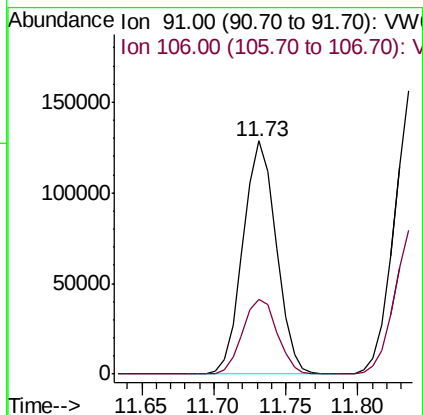
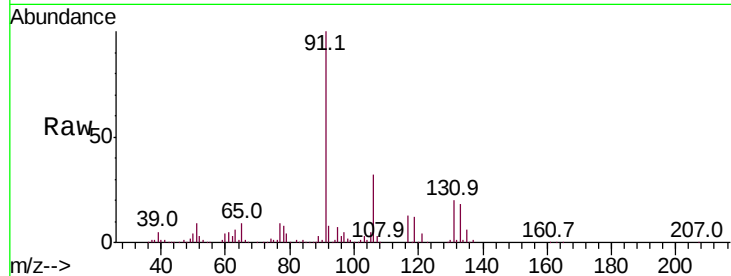
106 32.1 25.9 38.9

Manual Integrations

APPROVED

MMDadoda

6/4/2019 8:44:28 AM



#68

m/p-Xylenes

Concen: 42.561 ug/l

RT: 11.84 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VW010631.D

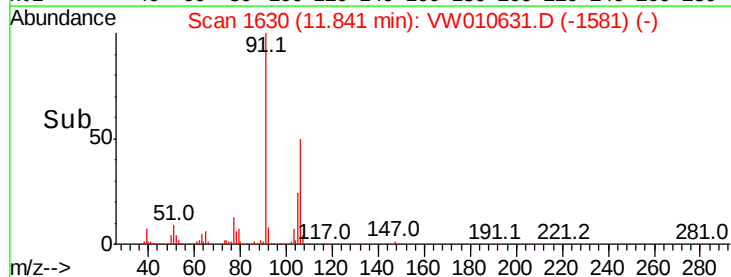
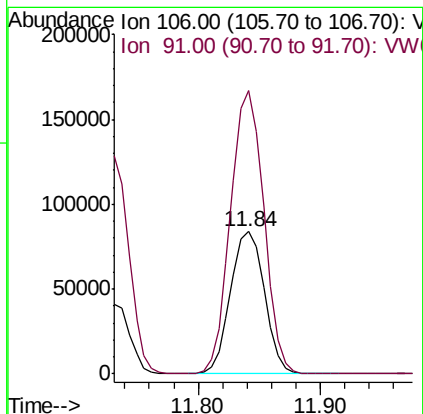
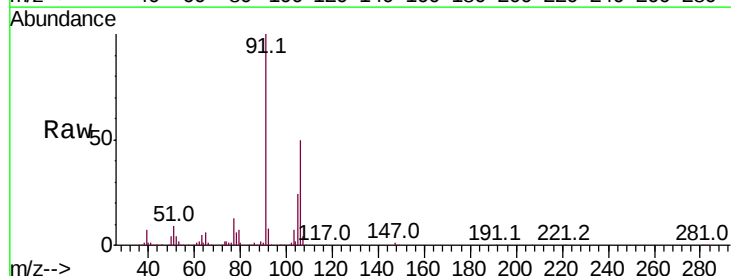
Acq: 31 May 2019 12:43

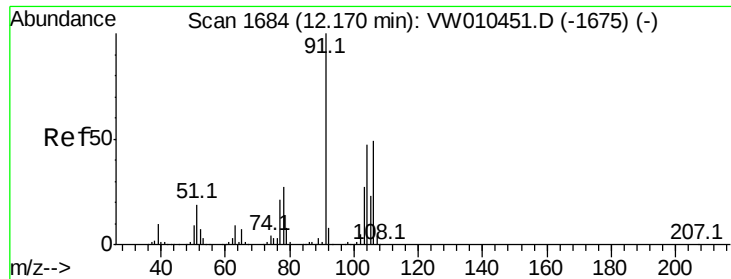
Tgt Ion:106 Resp: 161684

Ion Ratio Lower Upper

106 100

91 195.1 156.0 234.0





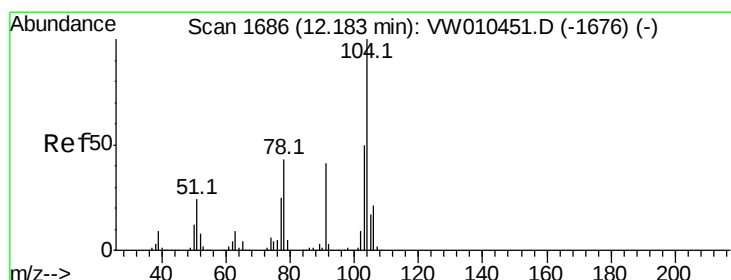
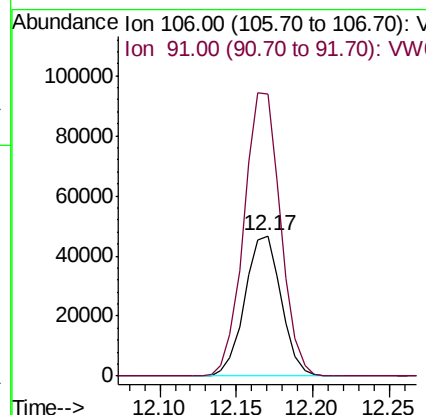
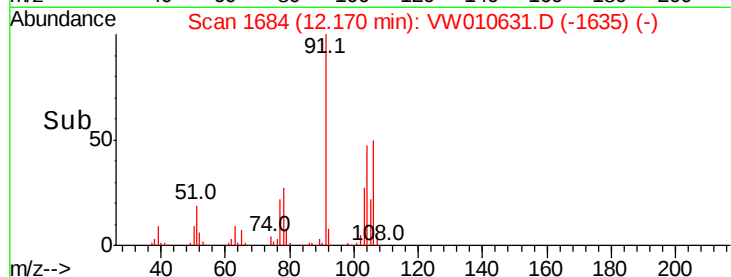
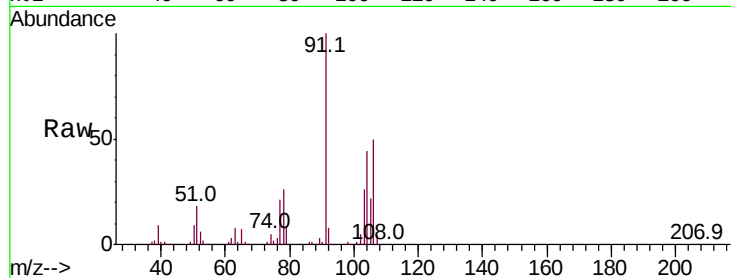
#69
o-Xylene
Concen: 21.458 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. -0.00 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Instrument :
MSVOA_W
ClientSampled :
VW0531SBS01

Tot Ion:106 Resp: 77231
Ion Ratio Lower Upper
106 100
91 202.6 103.2 309.4

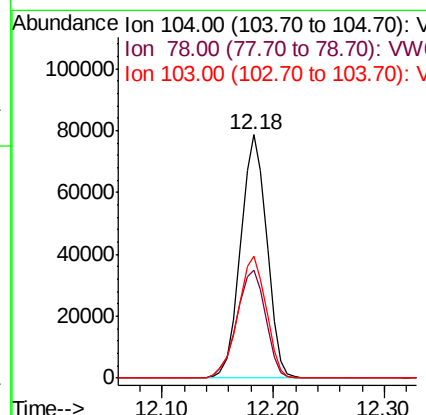
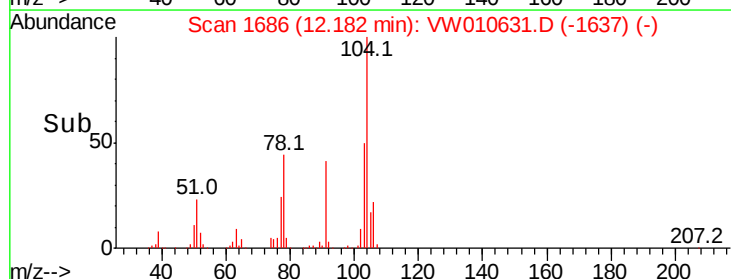
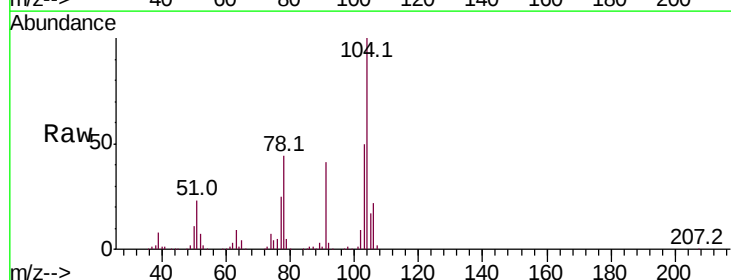
Manual Integrations
APPROVED

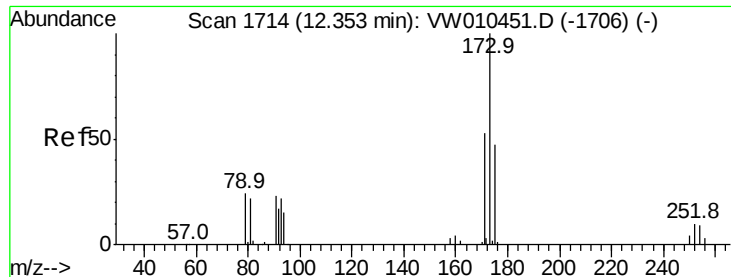
MMDadoda
6/4/2019 8:44:28 AM



#70
Styrene
Concen: 20.966 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Tgt Ion:104 Resp: 128037
Ion Ratio Lower Upper
104 100
78 49.1 39.0 58.4
103 53.7 43.0 64.6





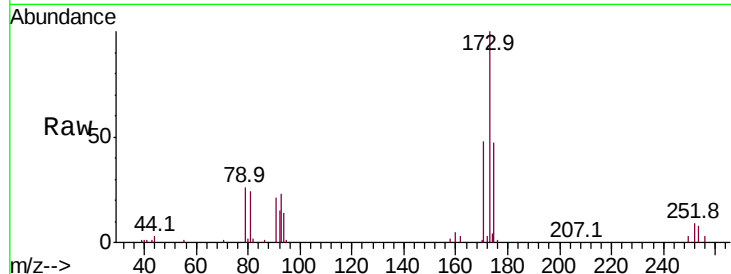
#71
Bromoform
Concen: 17.507 ug/l
RT: 12.35 min Scan# 1713
Delta R.T. -0.01 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Instrument :
MSVOA_W
ClientSampleId :
VW0531SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.5	24.4	73.4
254	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
6/4/2019 8:44:28 AM

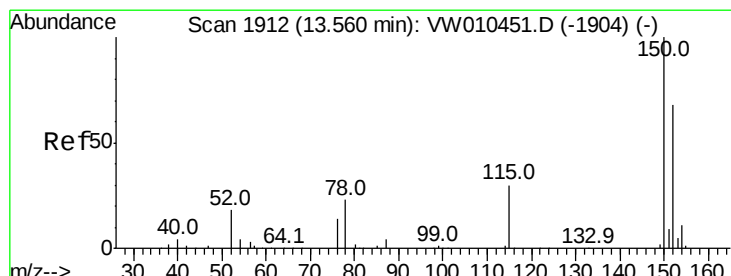
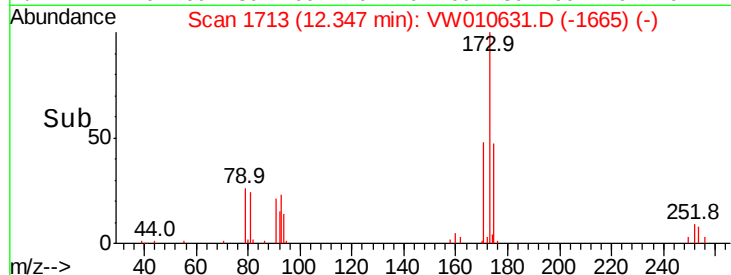
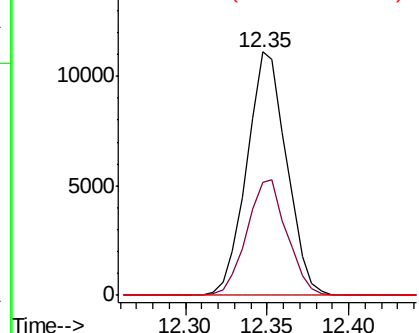


Abundance

Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

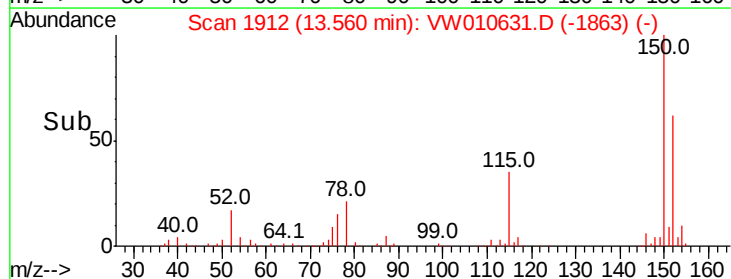
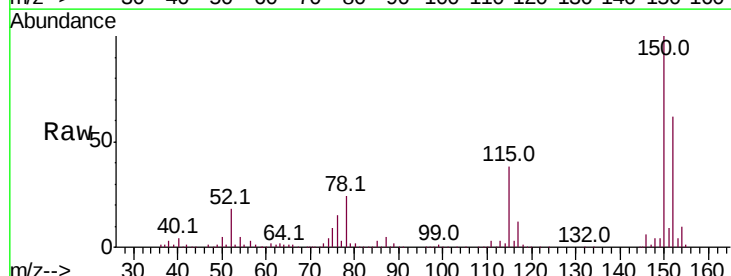
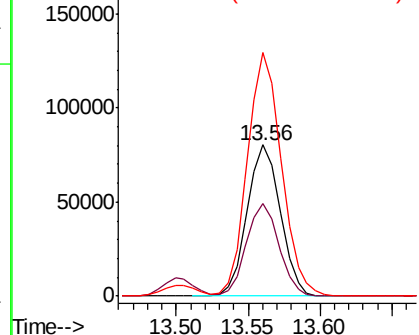
Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.3	30.3	91.0
150	165.2	0.0	349.8

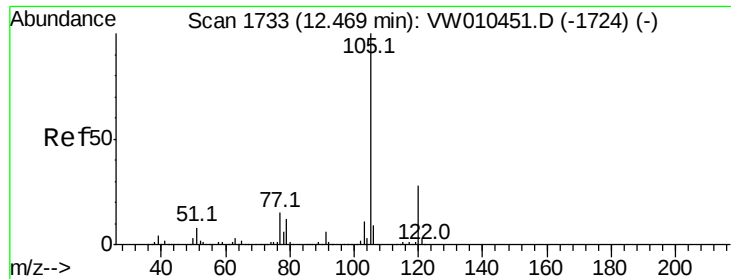
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.870 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.01 min

Lab File: VW010631.D

Acq: 31 May 2019 12:43

Instrument :

MSVOA_W

ClientSampleId :

VW0531SBS01

Tot Ion:105 Resp: 211933

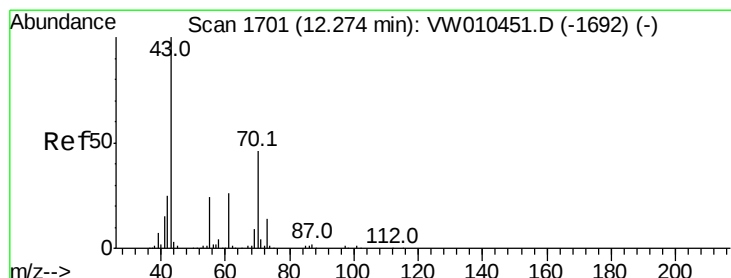
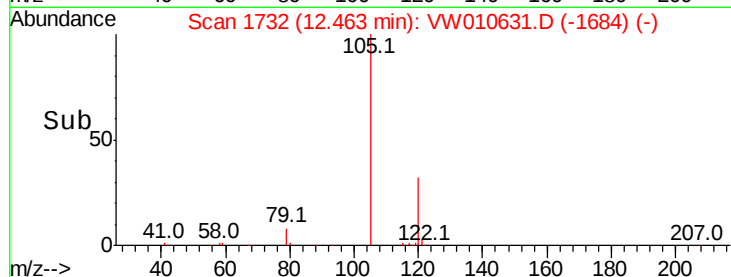
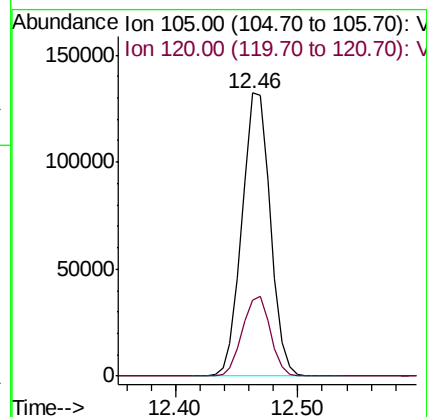
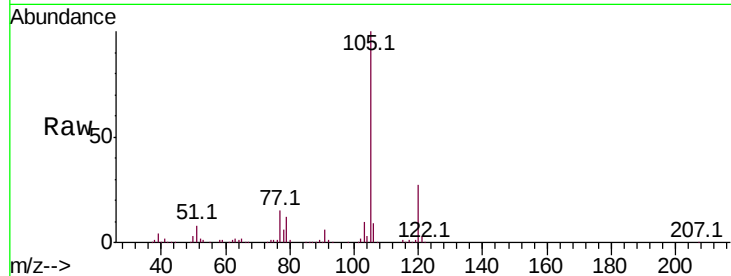
Ion Ratio Lower Upper

105 100

120 27.9 13.9 41.7

Manual Integrations
APPROVED

MMDadoda
6/4/2019 8:44:28 AM



#74

N-ethyl acetate

Concen: 16.427 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VW010631.D

Acq: 31 May 2019 12:43

Tgt Ion: 43 Resp: 38226

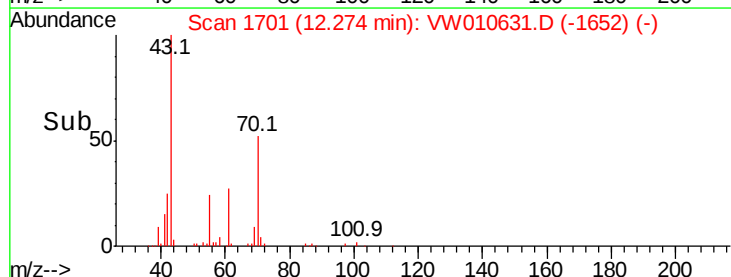
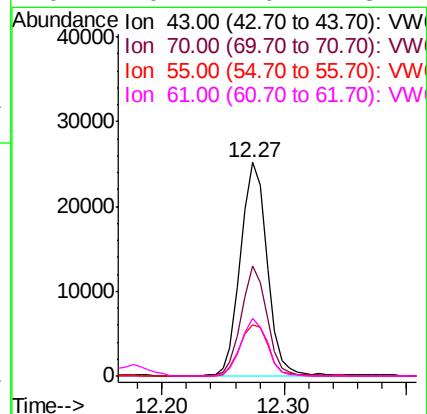
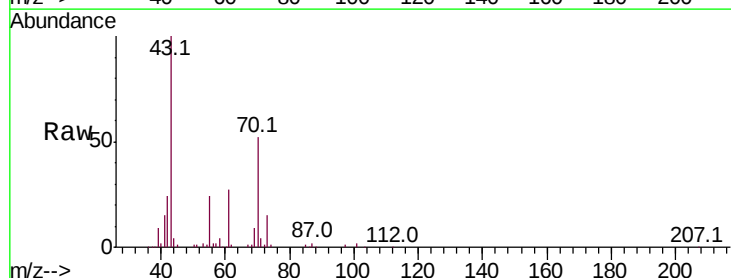
Ion Ratio Lower Upper

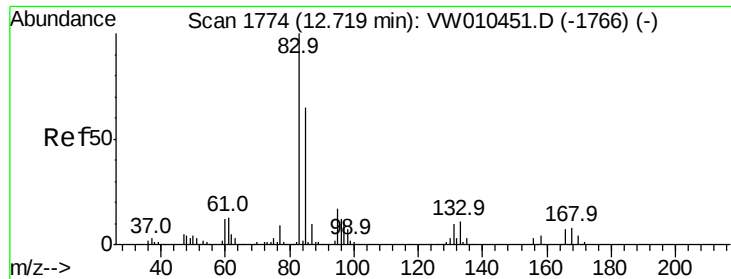
43 100

70 49.3 37.1 55.7

55 25.9 19.6 29.4

61 26.4 20.7 31.1





#75

1,1,2,2-Tetrachloroethane

Concen: 18.350 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.01 min

Lab File: VW010631.D

Acq: 31 May 2019 12:43

Instrument :

MSVOA_W

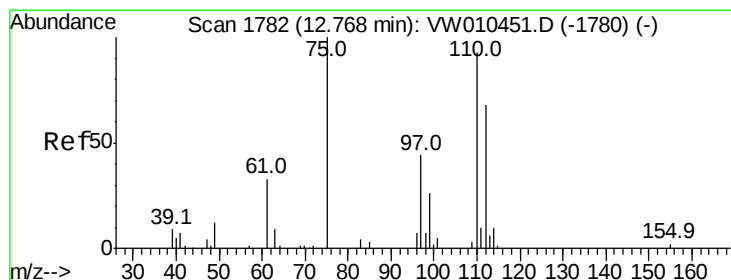
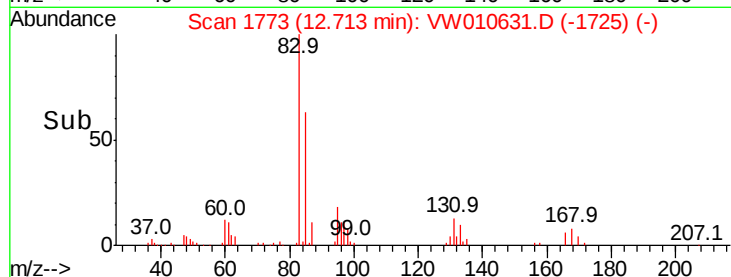
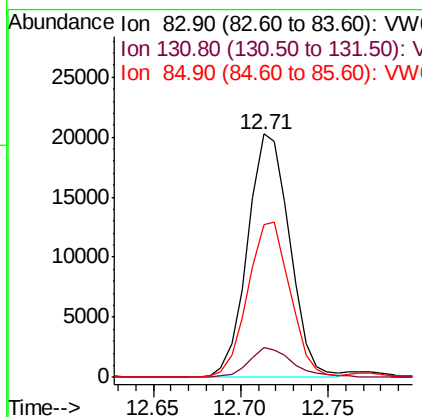
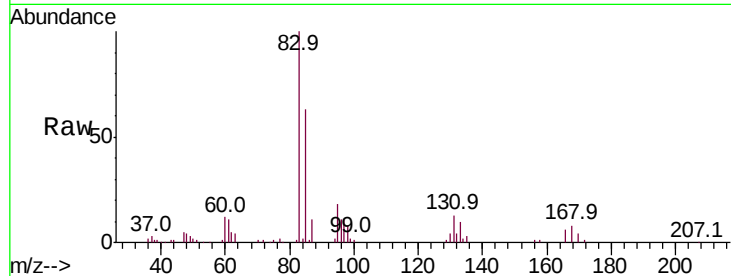
ClientSampleId :

VW0531SBS01

Tot Ion:	83	Resp:	33893
Ion Ratio	Lower	Upper	
83	100		
131	12.7	5.6	16.8
85	64.2	32.4	97.0

Manual Integrations
APPROVED

MMDadoda
6/4/2019 8:44:28 AM



#76

1,2,3-Trichloropropane

Concen: 18.911 ug/l m

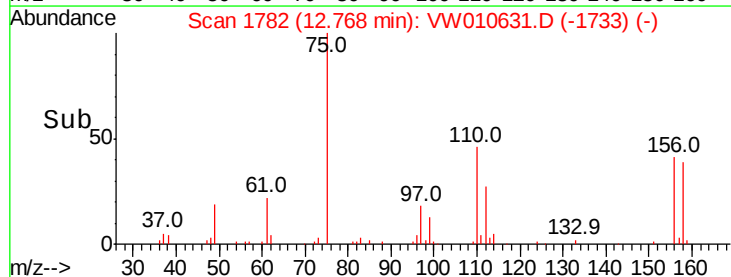
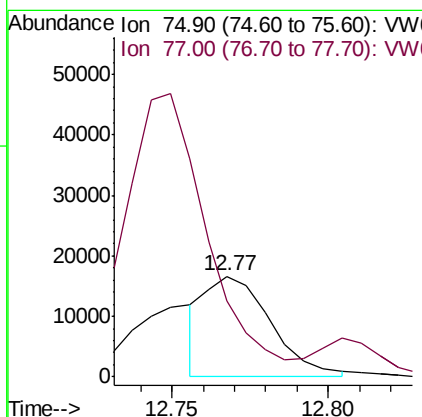
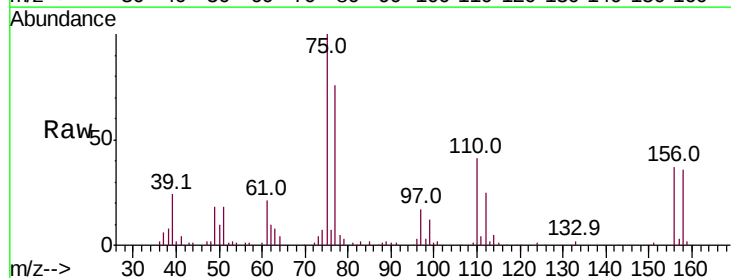
RT: 12.77 min Scan# 1782

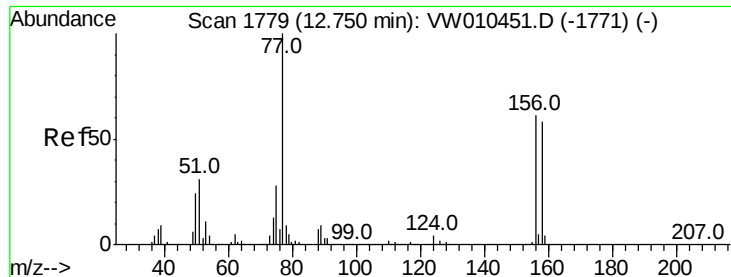
Delta R.T. -0.00 min

Lab File: VW010631.D

Acq: 31 May 2019 12:43

Tgt Ion:	75	Resp:	24565
Ion Ratio	Lower	Upper	
75	100		
77	351.7	170.0	510.1





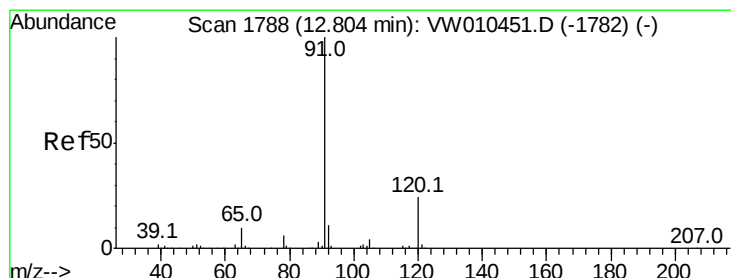
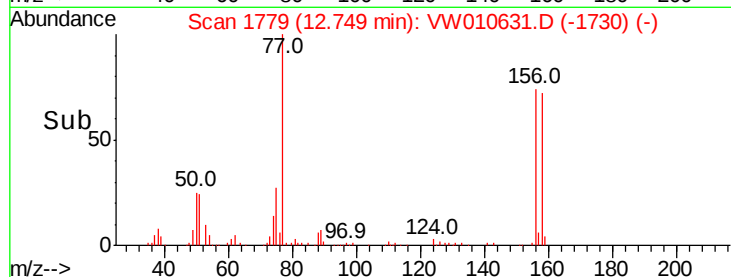
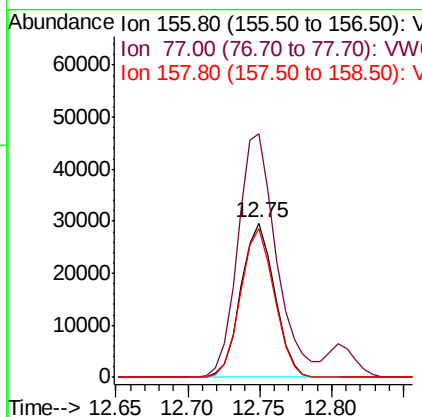
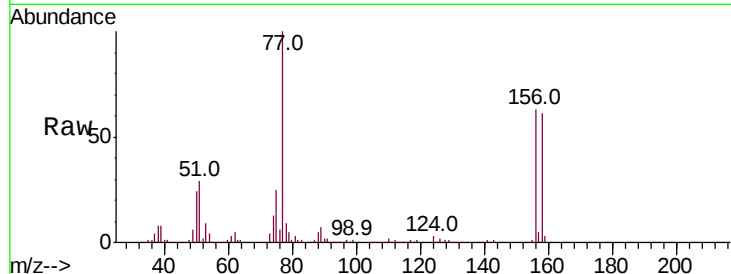
#77
Bromobenzene
Concen: 21.107 ug/l
RT: 12.75 min Scan# 1779
Delta R.T. -0.00 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Instrument :
MSVOA_W
ClientSampleId :
VW0531SBS01

Tot Ion	Ratio	Lower	Upper
156	100		
77	180.1	92.4	277.2
158	96.7	48.3	144.8

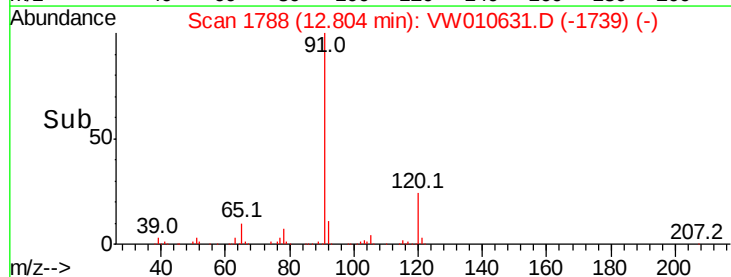
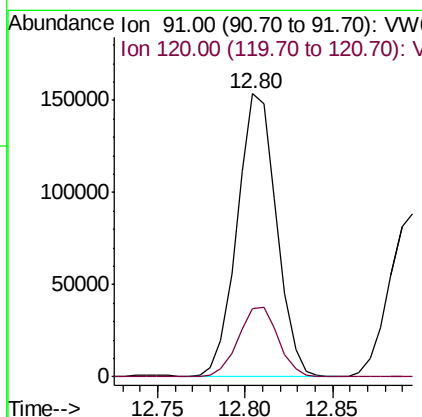
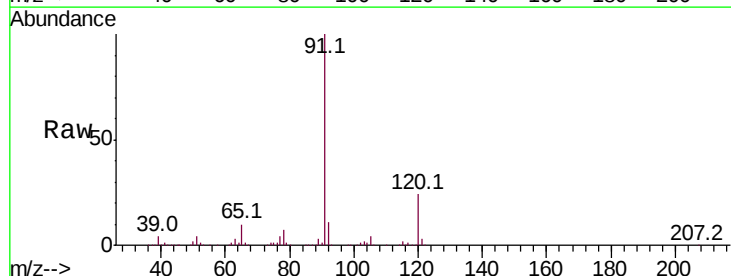
Manual Integrations
APPROVED

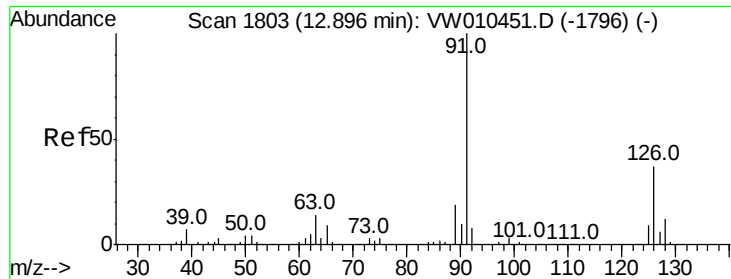
MMDadoda
6/4/2019 8:44:28 AM



#78
n-propylbenzene
Concen: 20.158 ug/l
RT: 12.80 min Scan# 1788
Delta R.T. -0.00 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Tgt Ion	Ratio	Lower	Upper
91	100		
120	25.1	12.3	36.8





#79

2-Chlorotoluene

Concen: 20.441 ug/l

RT: 12.90 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VW010631.D

Acq: 31 May 2019 12:43

Instrument :

MSVOA_W

ClientSampleId :

VW0531SBS01

Tot Ion: 91 Resp: 140283

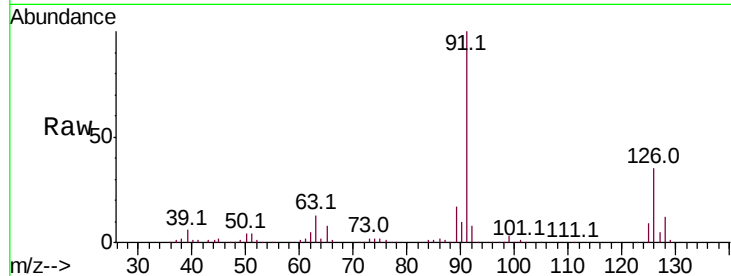
Ion Ratio Lower Upper

91 100

126 35.8 17.4 52.3

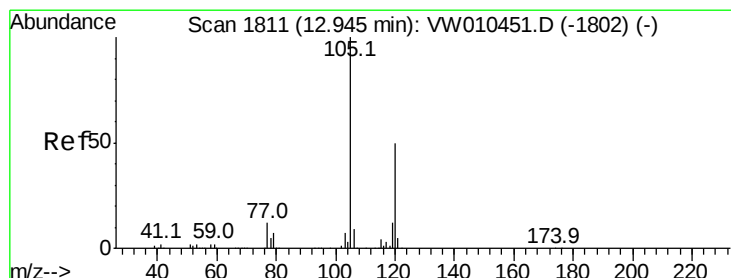
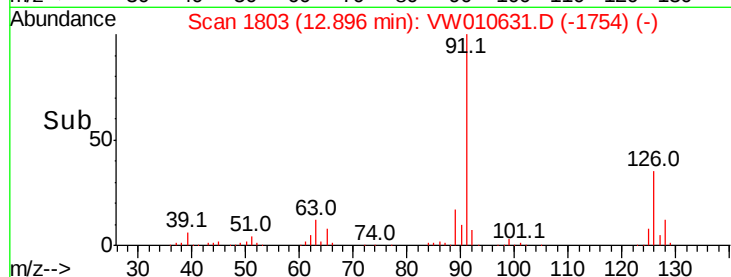
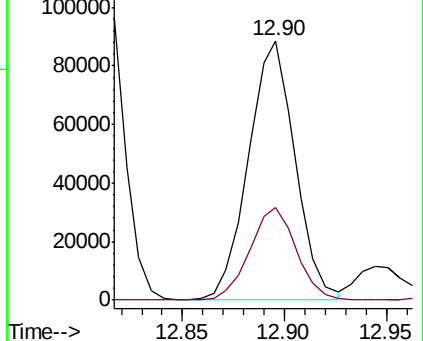
Manual Integrations
APPROVED

MMDadoda
6/4/2019 8:44:28 AM



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 20.460 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW010631.D

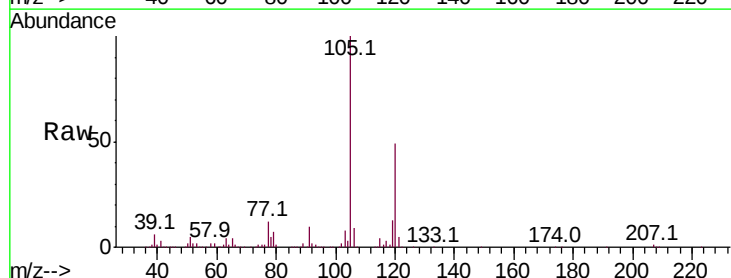
Acq: 31 May 2019 12:43

Tgt Ion:105 Resp: 175971

Ion Ratio Lower Upper

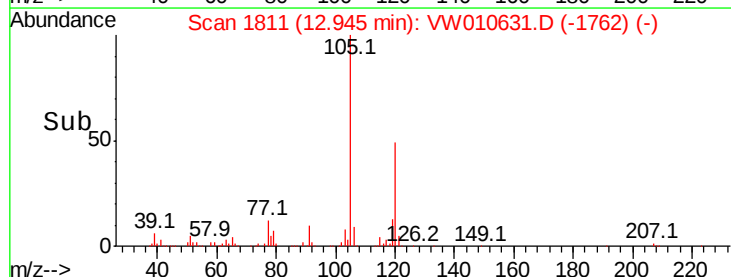
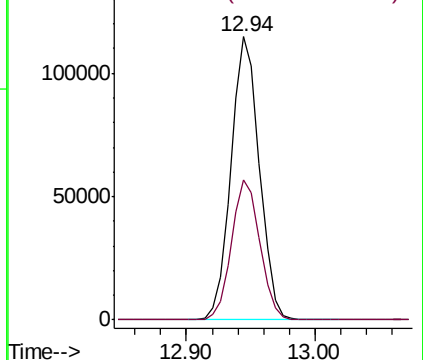
105 100

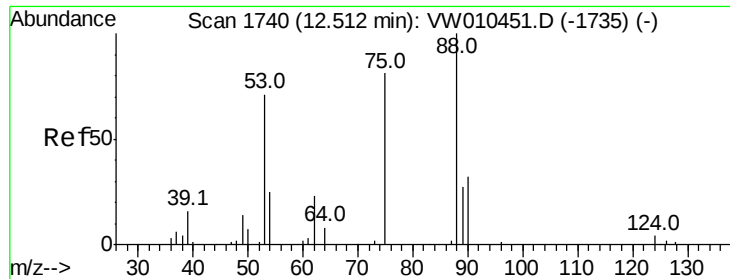
120 49.6 25.2 75.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





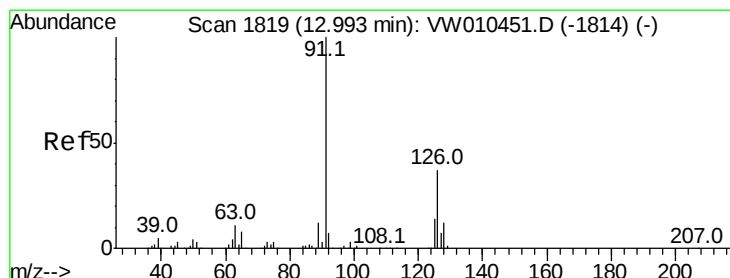
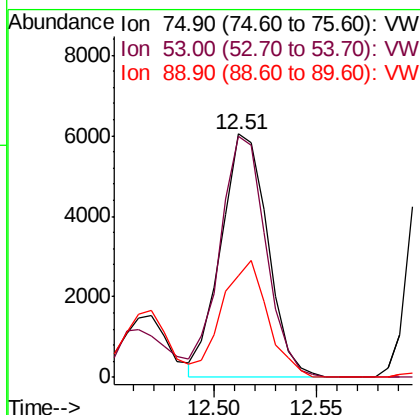
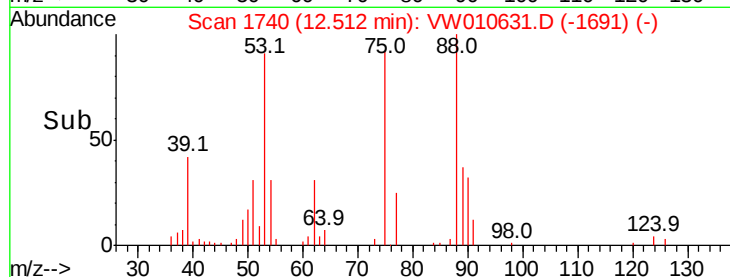
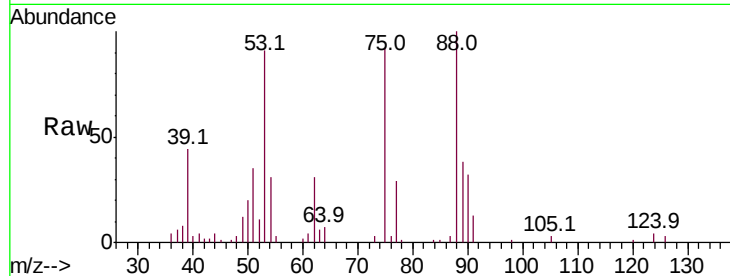
#81
trans-1,4-Dichloro-2-butene
Concen: 15.416 ug/l
RT: 12.51 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Instrument :
MSVOA_W
ClientSampleId :
VW0531SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	97.2	69.8	104.8
89	47.3	39.5	59.3

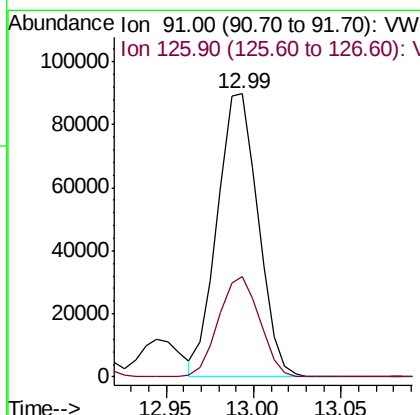
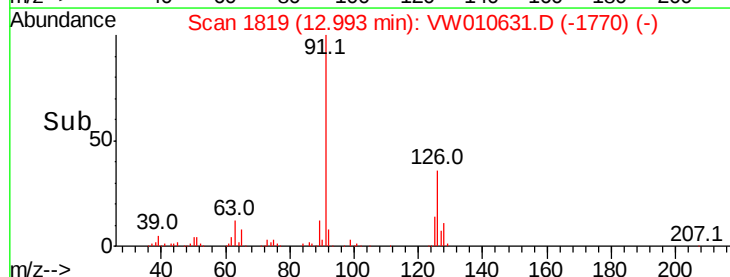
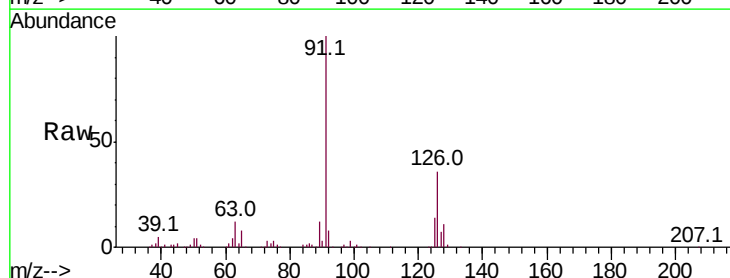
Manual Integrations
APPROVED

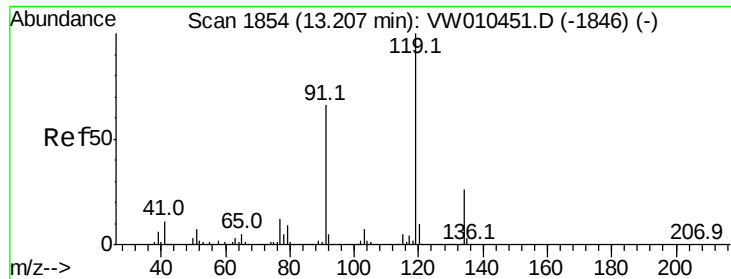
MMDadoda
6/4/2019 8:44:28 AM



#82
4-Chlorotoluene
Concen: 20.507 ug/l
RT: 12.99 min Scan# 1819
Delta R.T. -0.00 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.8	17.5	52.6





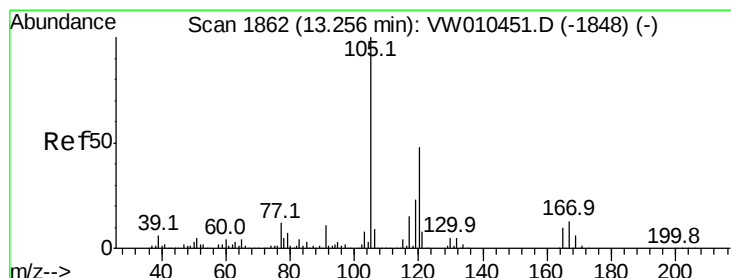
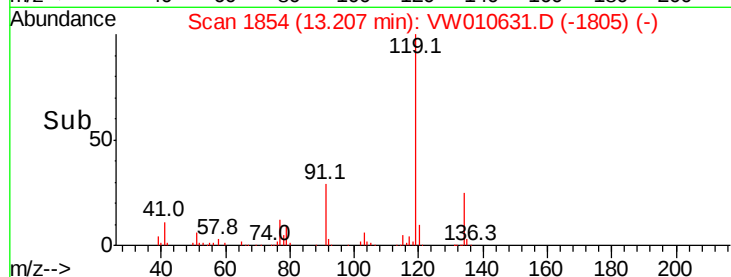
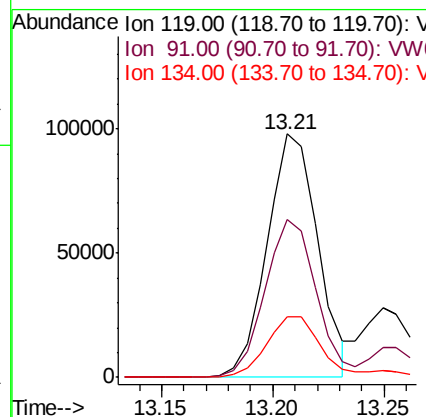
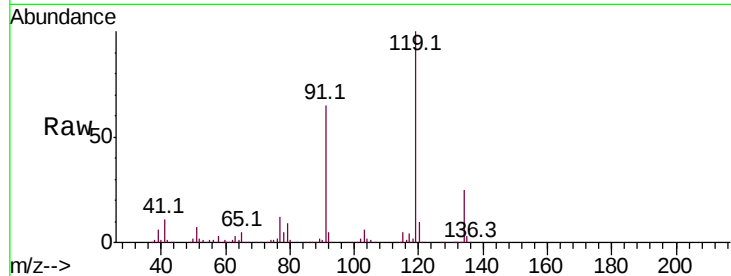
#83
tert-Butylbenzene
Concen: 20.596 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. -0.00 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Instrument :
MSVOA_W
ClientSampleId :
VW0531SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	154733		
91	65.7	33.1	99.5	
134	28.3	13.9	41.6	

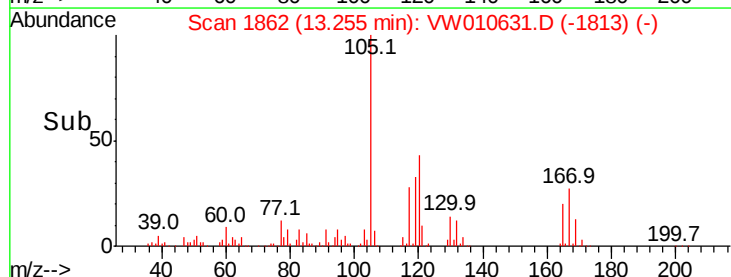
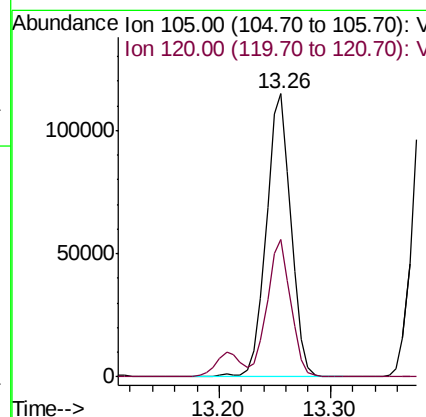
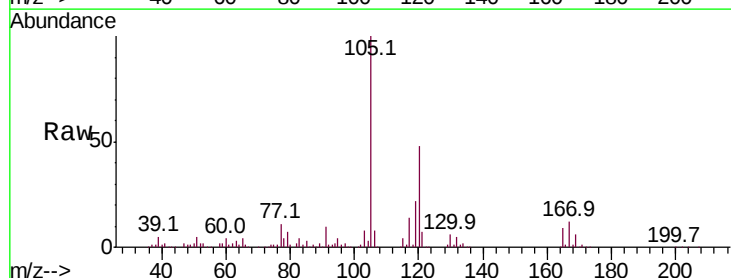
Manual Integrations
APPROVED

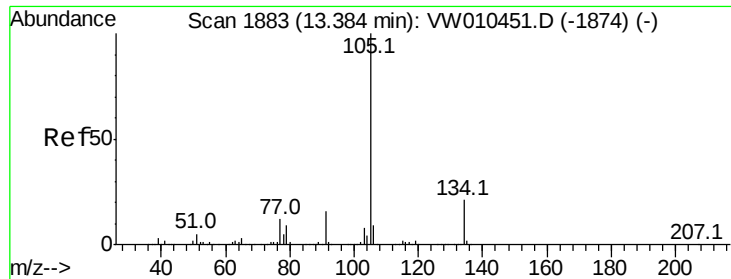
MMDadoda
6/4/2019 8:44:28 AM



#84
1,2,4-Trimethylbenzene
Concen: 20.751 ug/l
RT: 13.26 min Scan# 1862
Delta R.T. -0.00 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	177752		
120	46.7	23.4	70.2	





#85

sec-Butylbenzene

Concen: 20.745 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. -0.00 min

Lab File: VW010631.D

Acq: 31 May 2019 12:43

Instrument :

MSVOA_W

ClientSampleId :

VW0531SBS01

Tot Ion:105 Resp: 218101

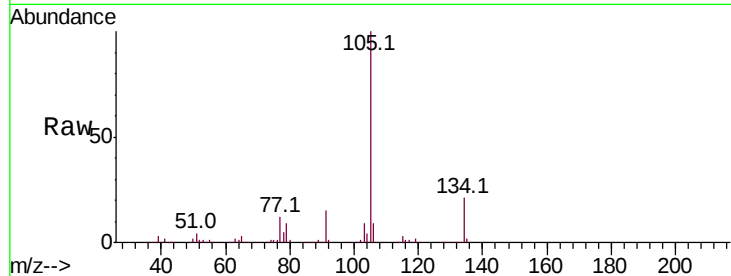
Ion Ratio Lower Upper

105 100

134 21.2 10.5 31.6

Manual Integrations
APPROVED

MMDadoda
6/4/2019 8:44:28 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.38

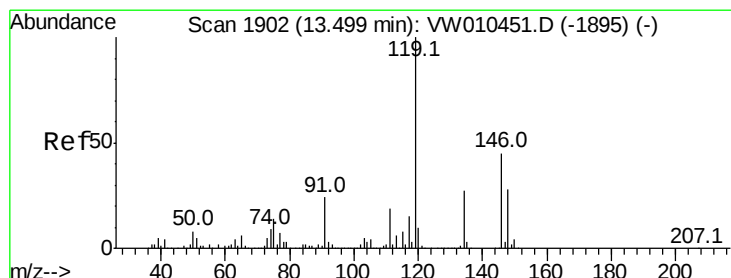
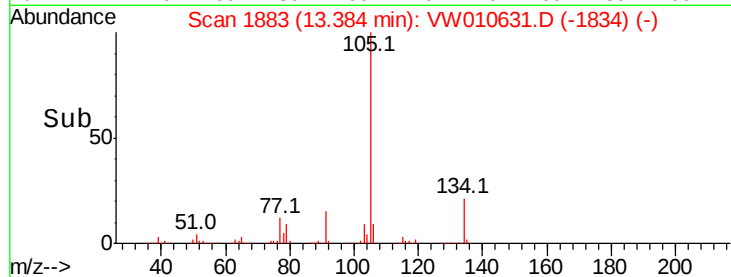
150000

100000

50000

0

Time--> 13.30 13.40



#86

p-Isopropyltoluene

Concen: 20.914 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW010631.D

Acq: 31 May 2019 12:43

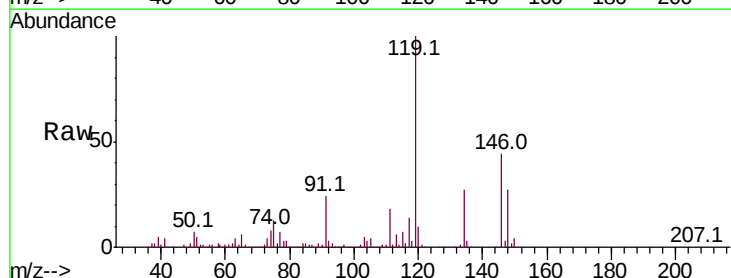
Tgt Ion:119 Resp: 199019

Ion Ratio Lower Upper

119 100

134 27.4 13.6 40.7

91 23.8 11.9 35.7



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

13.50

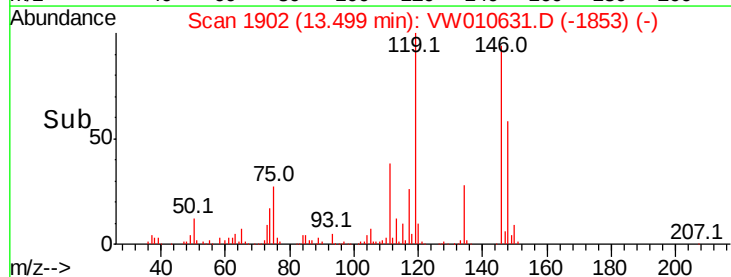
150000

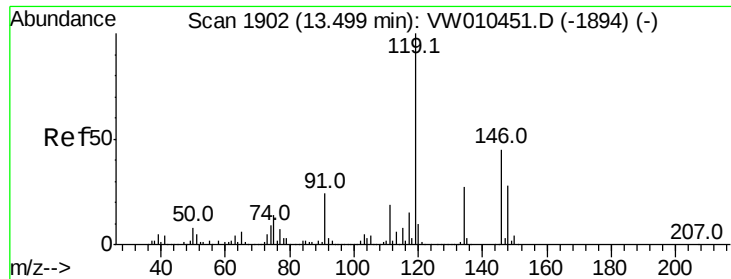
100000

50000

0

Time--> 13.40 13.50 13.60





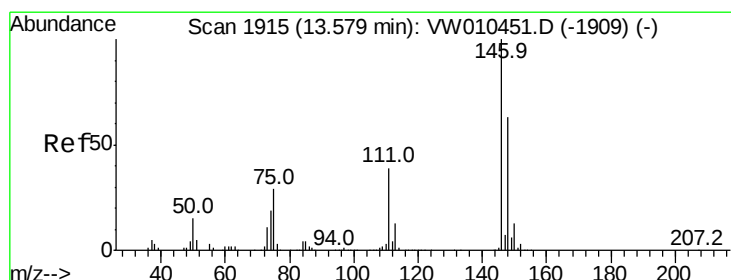
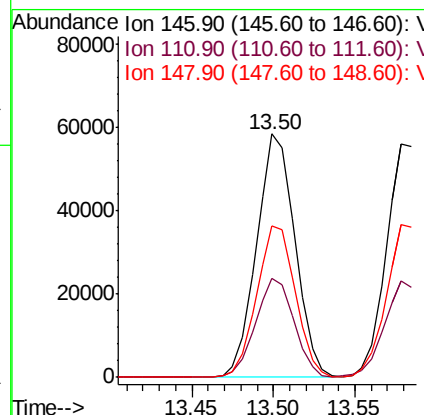
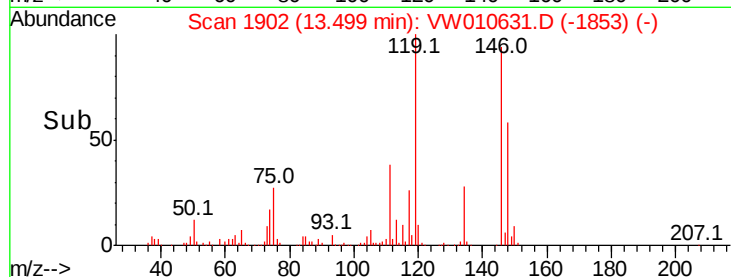
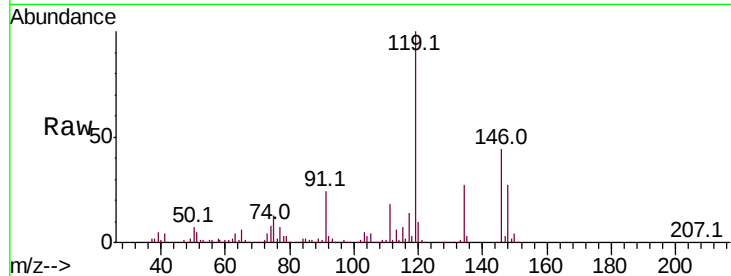
#87
 1,3-Dichlorobenzene
 Concen: 21.447 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW010631.D
 Acq: 31 May 2019 12:43

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0531SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.7	20.3	60.9
148	62.6	31.6	94.8

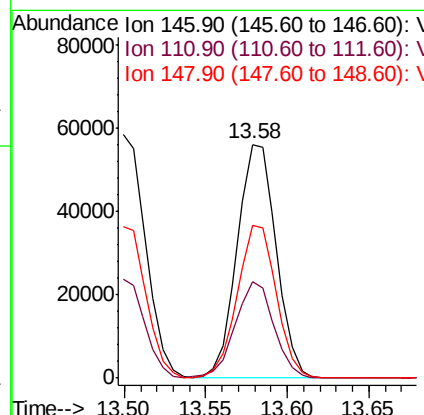
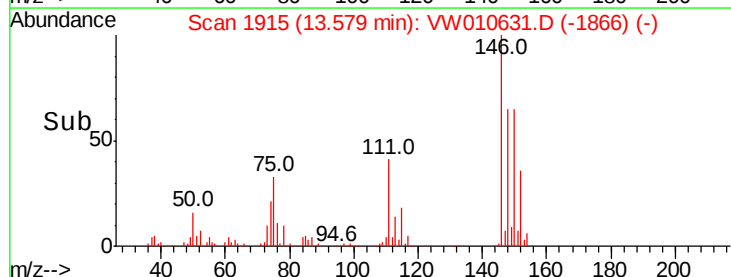
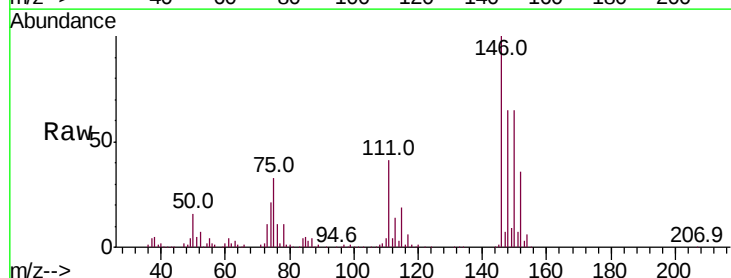
Manual Integrations
 APPROVED

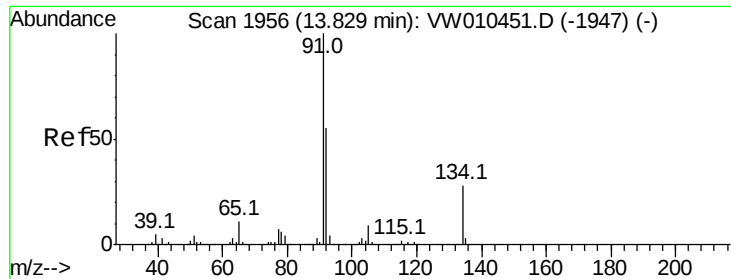
MMDadoda
 6/4/2019 8:44:28 AM



#88
 1,4-Dichlorobenzene
 Concen: 20.941 ug/l
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW010631.D
 Acq: 31 May 2019 12:43

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.0	19.9	59.6
148	65.4	31.6	94.8





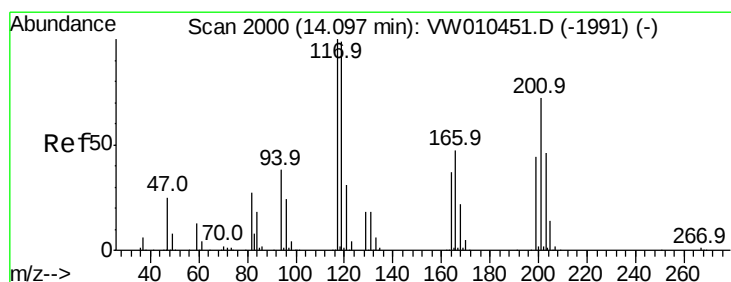
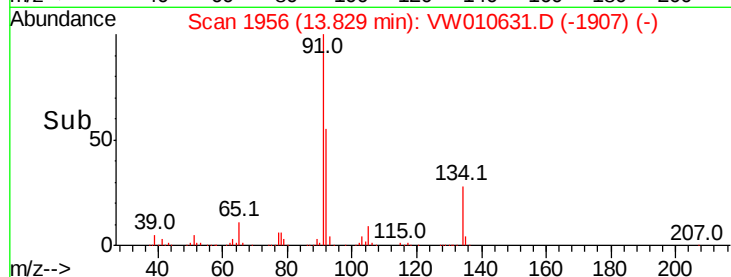
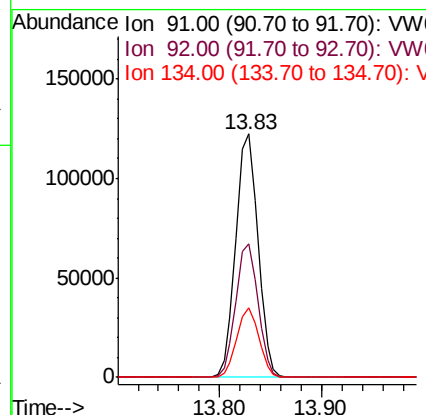
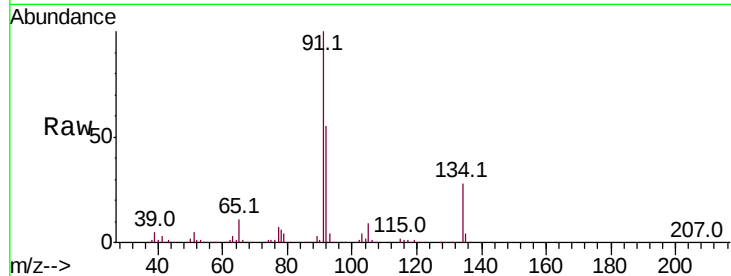
#89
n-Butylbenzene
Concen: 20.328 ug/l
RT: 13.83 min Scan# 1956
Delta R.T. -0.00 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Instrument :
MSVOA_W
ClientSampleId :
VW0531SBS01

Tot Ion	Ratio	Resp	Lower	Upper
91	100			
92	55.0	27.7	83.1	
134	28.3	13.9	41.6	

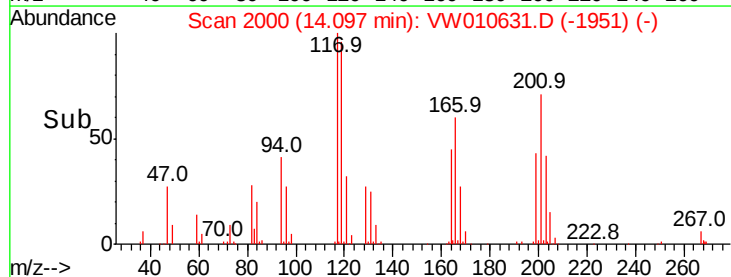
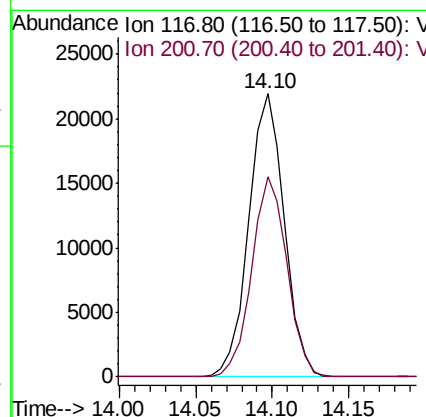
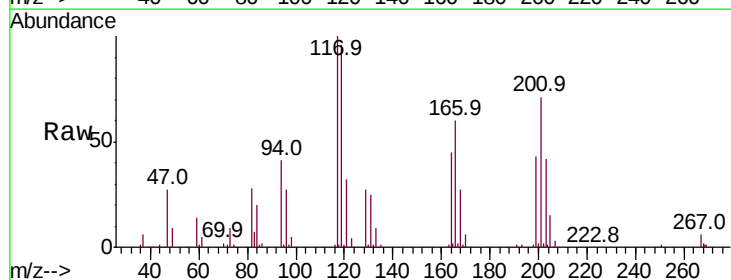
Manual Integrations
APPROVED

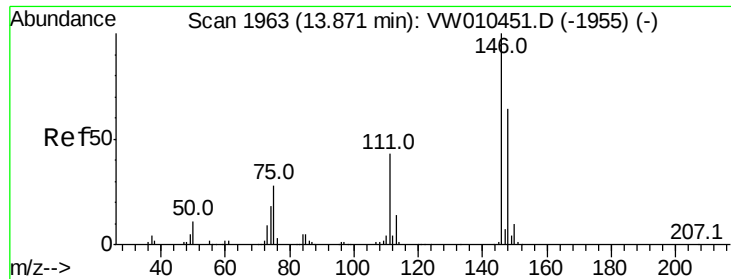
MMDadoda
6/4/2019 8:44:28 AM



#90
Hexachloroethane
Concen: 19.182 ug/l
RT: 14.10 min Scan# 2000
Delta R.T. -0.00 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
201	70.1	34.6	103.8	





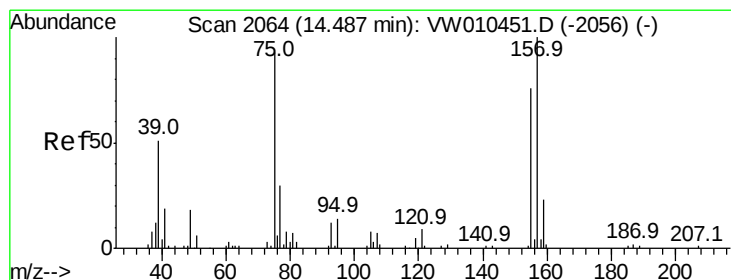
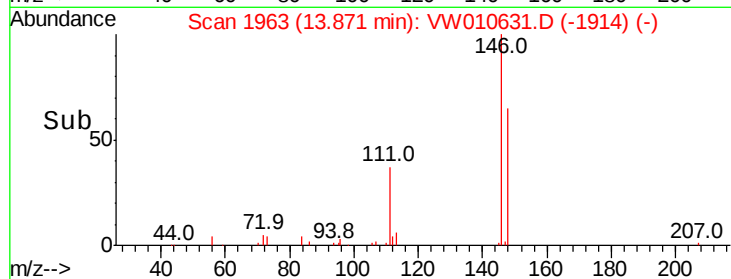
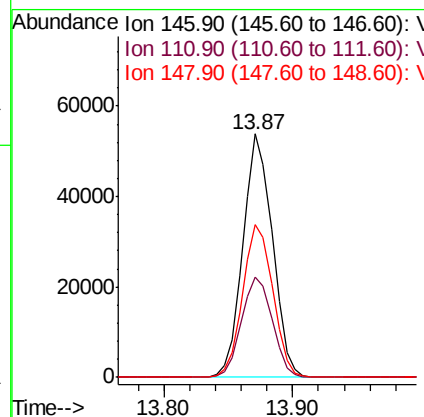
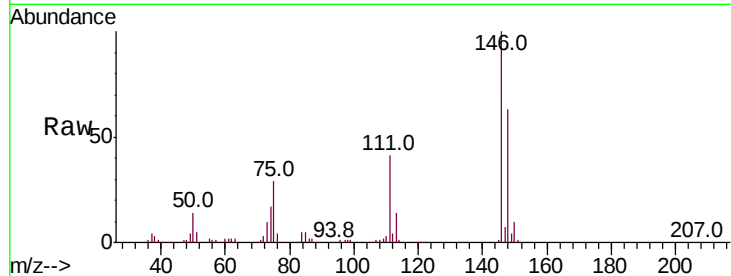
#91
1,2-Dichlorobenzene
Concen: 20.973 ug/l
RT: 13.87 min Scan# 1963
Delta R.T. -0.00 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Instrument :
MSVOA_W
ClientSampleId :
VW0531SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.3	64.0
148	64.1	32.0	96.0

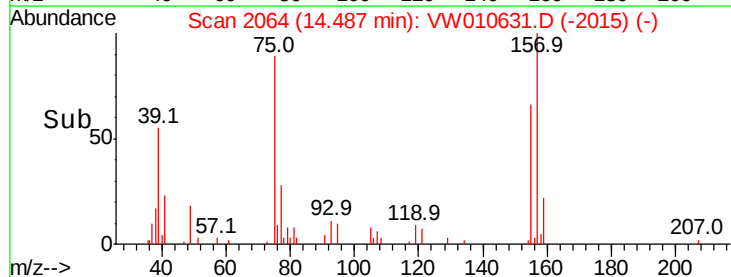
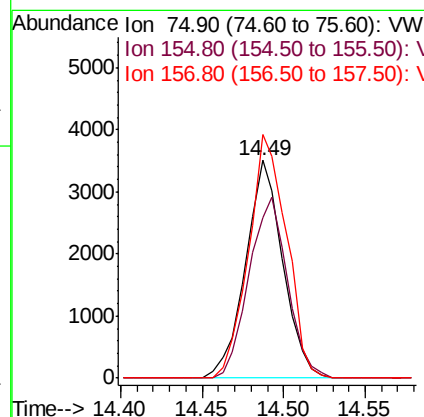
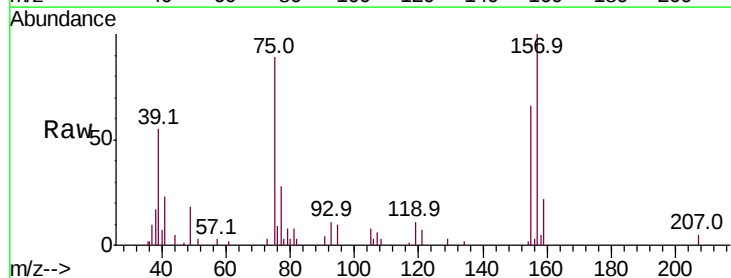
Manual Integrations
APPROVED

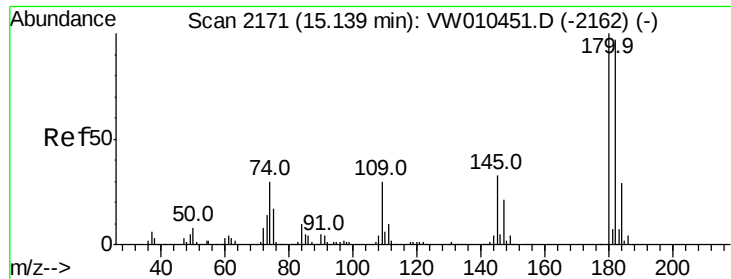
MMDadoda
6/4/2019 8:44:28 AM



#92
1,2-Dibromo-3-Chloropropane
Concen: 16.300 ug/l
RT: 14.49 min Scan# 2064
Delta R.T. -0.00 min
Lab File: VW010631.D
Acq: 31 May 2019 12:43

Tgt Ion	Ratio	Lower	Upper
75	100		
155	85.6	43.0	129.0
157	113.6	55.7	167.1





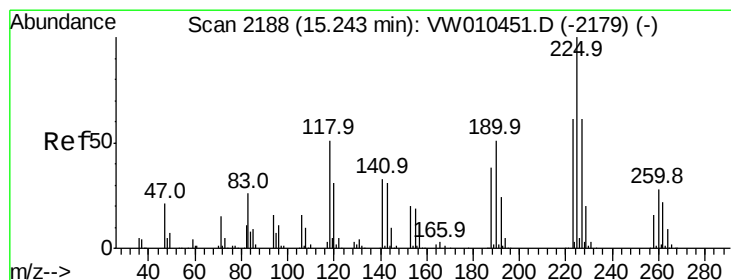
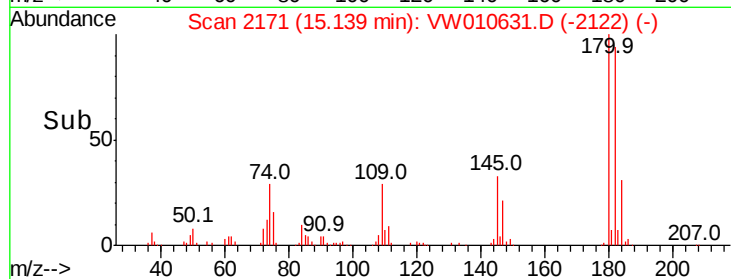
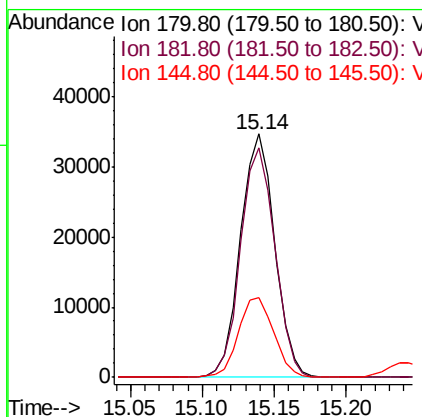
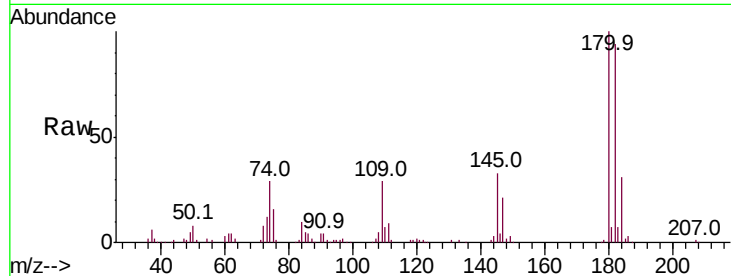
#93
 1,2,4-Trichlorobenzene
 Concen: 20.657 ug/l
 RT: 15.14 min Scan# 2171
 Delta R.T. -0.00 min
 Lab File: VW010631.D
 Acq: 31 May 2019 12:43

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0531SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	94.7	47.0	141.2	
145	33.9	16.7	50.0	

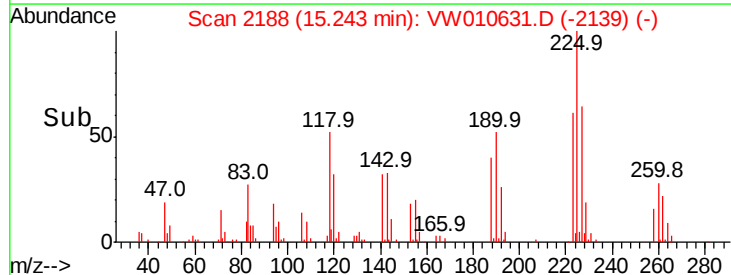
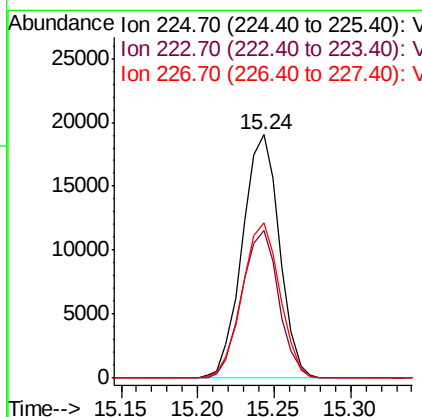
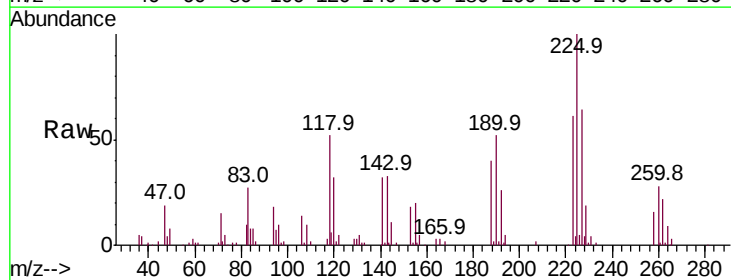
Manual Integrations
 APPROVED

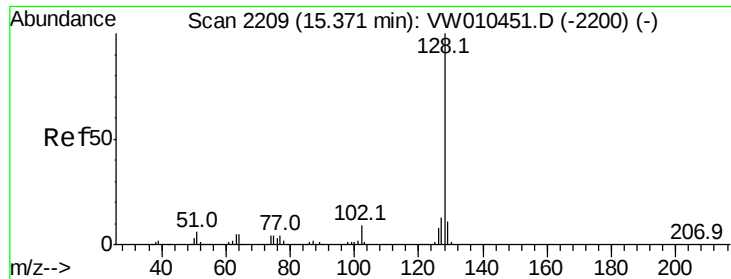
MMDadoda
 6/4/2019 8:44:28 AM



#94
 Hexachlorobutadiene
 Concen: 21.741 ug/l
 RT: 15.24 min Scan# 2188
 Delta R.T. -0.00 min
 Lab File: VW010631.D
 Acq: 31 May 2019 12:43

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	60.6	31.1	93.2	
227	64.3	31.1	93.5	





#95

Naphthalene

Concen: 17.514 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. -0.00 min

Lab File: VW010631.D

Acq: 31 May 2019 12:43

Instrument :

MSVOA_W

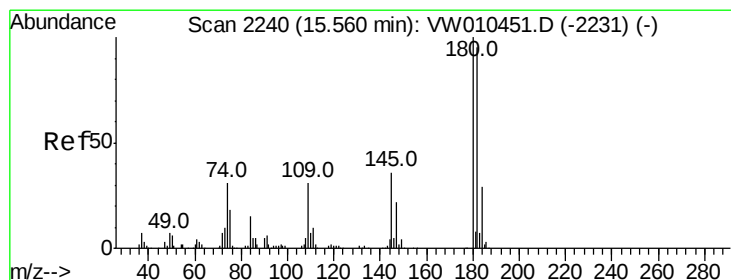
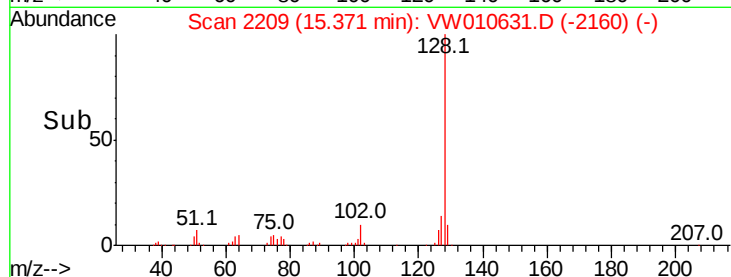
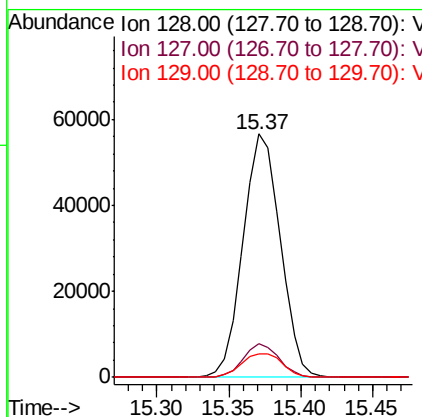
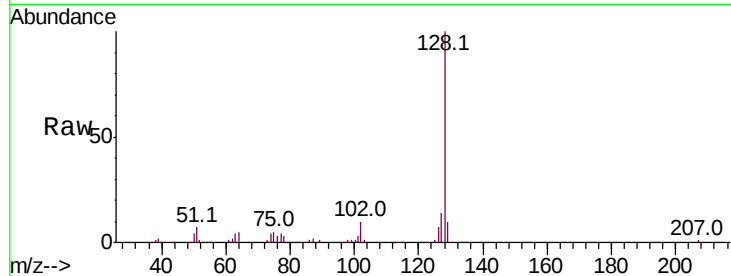
ClientSampleId :

VW0531SBS01

Tot Ion:	128	Resp:	101615
Ion Ratio	Lower	Upper	
128	100		
127	13.2	10.6	15.8
129	10.7	8.9	13.3

Manual Integrations
APPROVED

MMDadoda
6/4/2019 8:44:28 AM



#96

1,2,3-Trichlorobenzene

Concen: 20.665 ug/l

RT: 15.56 min Scan# 2240

Delta R.T. -0.00 min

Lab File: VW010631.D

Acq: 31 May 2019 12:43

Tgt Ion:	180	Resp:	49148
Ion Ratio	Lower	Upper	
180	100		
182	95.0	47.1	141.3
145	35.2	17.4	52.3

