

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW081719\
 Data File : VW011954.D
 Acq On : 16 Aug 2019 10:34
 Operator : SY/VA
 Sample : VW0817SBS01
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0817SBS01

Manual Integrations
 APPROVED

MMDadoda
 8/19/2019 10:55:19 AM

Quant Time: Aug 17 05:09:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W072719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 00:23:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	228206	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	364253	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	313666	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	150486	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	132844	50.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.40%	
35) Dibromofluoromethane	7.88	113	107827	52.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.54%	
50) Toluene-d8	10.32	98	441367	52.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.50%	
62) 4-Bromofluorobenzene	12.62	95	155422	52.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.20%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	31017	24.388	ug/l	94
3) Chloromethane	2.21	50	48333	21.916	ug/l	95
4) Vinyl Chloride	2.36	62	60881	22.930	ug/l	97
5) Bromomethane	2.76	94	30122	20.496	ug/l	94
6) Chloroethane	2.92	64	33040	21.785	ug/l	97
7) Trichlorofluoromethane	3.26	101	29131	24.550	ug/l	98
8) Diethyl Ether	3.68	74	27544	20.473	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	4.07	101	52156	23.171	ug/l	99
10) Methyl Iodide	4.27	142	68168	21.430	ug/l	99
11) Tert butyl alcohol	5.17	59	17326	77.272	ug/l	99
12) 1,1-Dichloroethene	4.04	96	51769	21.782	ug/l	97
13) Acrolein	3.90	56	12916	68.693	ug/l	92
14) Allyl chloride	4.66	41	108822	21.528	ug/l	99
15) Acrylonitrile	5.37	53	68352	101.774	ug/l	98
16) Acetone	4.12	43	71835	86.179	ug/l	98
17) Carbon Disulfide	4.38	76	154378	20.754	ug/l	98
18) Methyl Acetate	4.67	43	38514	20.567	ug/l	99
19) Methyl tert-butyl Ether	5.42	73	81010	21.480	ug/l	97
20) Methylene Chloride	4.92	84	58099	20.210	ug/l	94
21) trans-1,2-Dichloroethene	5.42	96	55782	21.770	ug/l	98
22) Diisopropyl ether	6.31	45	205343	21.546	ug/l	99
23) Vinyl Acetate	6.26	43	623788	104.164	ug/l	100
24) 1,1-Dichloroethane	6.21	63	109771	21.506	ug/l	98
25) 2-Butanone	7.17	43	101879	93.404	ug/l	95
26) 2,2-Dichloropropane	7.17	77	63247	20.149	ug/l	99
27) cis-1,2-Dichloroethene	7.17	96	59343	21.043	ug/l	99
28) Bromochloromethane	7.51	49	50108	22.117	ug/l	99
29) Tetrahydrofuran	7.53	42	63141	101.273	ug/l	99
30) Chloroform	7.68	83	101088	21.467	ug/l	98
31) Cyclohexane	7.96	56	106158	21.667	ug/l	95
32) 1,1,1-Trichloroethane	7.87	97	80439	22.430	ug/l	99
36) 1,1-Dichloropropene	8.08	75	85973	22.699	ug/l	99
37) Ethyl Acetate	7.25	43	44384	20.368	ug/l	98
38) Carbon Tetrachloride	8.07	117	73185	22.571	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW081719\
 Data File : VW011954.D
 Acq On : 16 Aug 2019 10:34
 Operator : SY/VA
 Sample : VW0817SBS01
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleID :
 VW0817SBS01

Manual Integrations
 APPROVED

MMDadoda
 8/19/2019 10:55:19 AM

Quant Time: Aug 17 05:09:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W072719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 00:23:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	95234	22.835	ug/l	99
40) Benzene	8.32	78	233914	22.048	ug/l	99
41) Methacrylonitrile	7.48	41	26953	20.692	ug/l	97
42) 1,2-Dichloroethane	8.40	62	71533	21.536	ug/l	99
43) Isopropyl Acetate	8.42	43	82720	20.641	ug/l	100
44) Trichloroethene	9.09	130	56744	22.253	ug/l	100
45) 1,2-Dichloropropane	9.37	63	62178	21.904	ug/l	99
46) Dibromomethane	9.46	93	27909	21.541	ug/l	100
47) Bromodichloromethane	9.65	83	72203	21.245	ug/l	97
48) Methyl methacrylate	9.43	41	39536	20.538	ug/l	97
49) 1,4-Dioxane	9.45	88	7881	420.102	ug/l	92
51) 4-Methyl-2-Pentanone	10.21	43	215424	103.346	ug/l	100
52) Toluene	10.39	92	142204	22.196	ug/l	100
53) t-1,3-Dichloropropene	10.61	75	74154	20.887	ug/l	99
54) cis-1,3-Dichloropropene	10.07	75	90805	21.512	ug/l	98
55) 1,1,2-Trichloroethane	10.79	97	39617	21.551	ug/l	97
56) Ethyl methacrylate	10.65	69	57354	21.321	ug/l	100
57) 1,3-Dichloropropane	10.93	76	74138	21.317	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.92	63	153487	125.668	ug/l	99
59) 2-Hexanone	10.97	43	148890	101.162	ug/l	99
60) Dibromochloromethane	11.13	129	42948	21.047	ug/l	99
61) 1,2-Dibromoethane	11.23	107	36516	20.991	ug/l	100
64) Tetrachloroethene	10.87	164	47303	23.162	ug/l	93
65) Chlorobenzene	11.66	112	138978	22.038	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.73	131	49307	22.447	ug/l	99
67) Ethyl Benzene	11.73	91	271749	22.626	ug/l	99
68) m/p-Xylenes	11.84	106	198384	45.420	ug/l	99
69) o-Xylene	12.16	106	91706	22.594	ug/l	99
70) Styrene	12.18	104	155316	22.132	ug/l	99
71) Bromoform	12.35	173	23567	21.043	ug/l	# 98
73) Isopropylbenzene	12.46	105	257446	22.932	ug/l	99
74) N-amyl acetate	12.27	43	75368	21.443	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.71	83	46560	22.048	ug/l	98
76) 1,2,3-Trichloropropane	12.77	75	32915m	20.671	ug/l	
77) Bromobenzene	12.75	156	54921	22.133	ug/l	99
78) n-propylbenzene	12.80	91	318824	23.335	ug/l	99
79) 2-Chlorotoluene	12.89	91	177635	22.568	ug/l	99
80) 1,3,5-Trimethylbenzene	12.94	105	216692	23.026	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.51	75	15035	21.761	ug/l	99
82) 4-Chlorotoluene	12.99	91	182778	22.132	ug/l	99
83) tert-Butylbenzene	13.21	119	179930	22.864	ug/l	99
84) 1,2,4-Trimethylbenzene	13.25	105	216154	22.801	ug/l	100
85) sec-Butylbenzene	13.38	105	260358	23.186	ug/l	100
86) p-Isopropyltoluene	13.50	119	232702	22.840	ug/l	100
87) 1,3-Dichlorobenzene	13.50	146	106680	21.926	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	107126	22.133	ug/l	99
89) n-Butylbenzene	13.82	91	231247	22.744	ug/l	99
90) Hexachloroethane	14.10	117	40105	22.261	ug/l	99
91) 1,2-Dichlorobenzene	13.87	146	95073	22.093	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.49	75	7415	20.591	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW081719\
Data File : VW011954.D
Acq On : 16 Aug 2019 10:34
Operator : SY/VA
Sample : VW0817SBSD01
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0817SBSD01

Manual Integrations
APPROVED

MMDadoda
8/19/2019 10:55:19 AM

Quant Time: Aug 17 05:09:44 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W072719S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 27 00:23:30 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	63956	21.088	ug/l	99
94) Hexachlorobutadiene	15.24	225	43423	22.959	ug/l	98
95) Naphthalene	15.37	128	111885	20.121	ug/l	99
96) 1,2,3-Trichlorobenzene	15.56	180	56271	21.167	ug/l	100

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

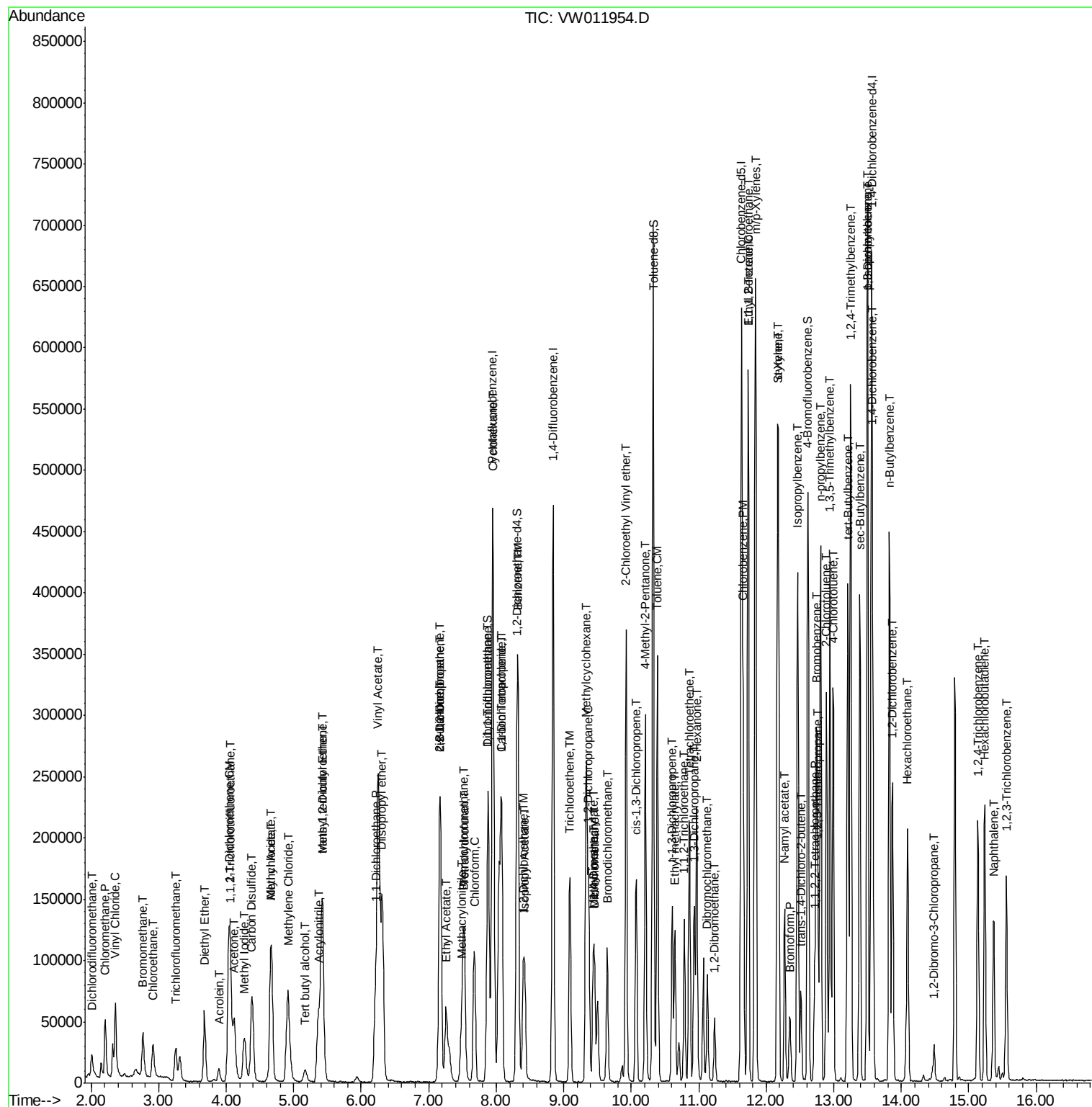
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW081719\
Data File : VW011954.D
Acq On : 16 Aug 2019 10:34
Operator : SY/VA
Sample : VW0817SBSD01
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 5 Sample Multiplier: 1

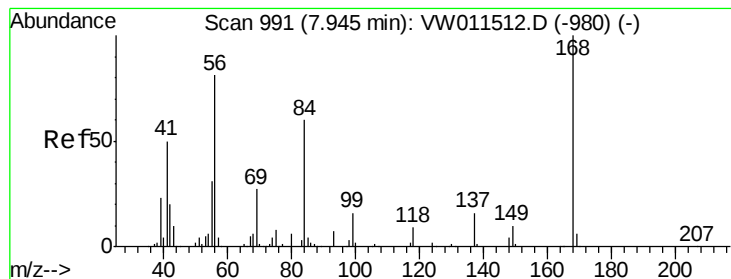
Instrument :
MSVOA_W
ClientSampleId :
VW0817SBSD01

Manual Integrations
APPROVED

MMDadoda
8/19/2019 10:55:19 AM

Quant Time: Aug 17 05:09:44 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W072719S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 27 00:23:30 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW011954.D

Acq: 16 Aug 2019 10:34

Instrument :

MSVOA_W

ClientSampleId :

VW0817SBSD01

Tot Ion:168 Resp: 228206

Ion Ratio Lower Upper

168 100

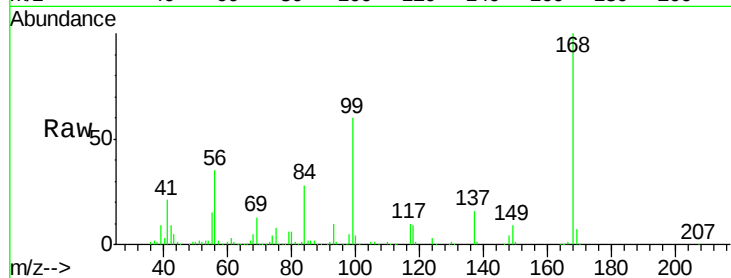
99 59.8 48.2 72.4

Manual Integrations

APPROVED

MMDadoda

8/19/2019 10:55:19 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

60000

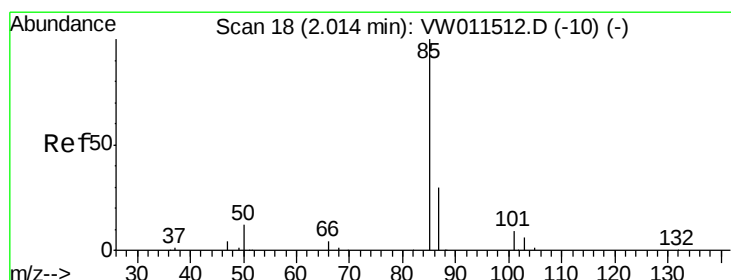
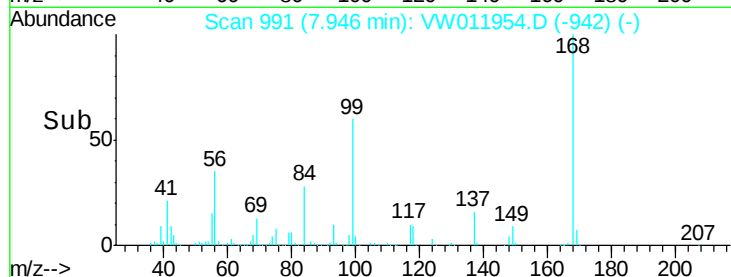
40000

20000

0

7.90 8.00

Time-->



#2

Dichlorodifluoromethane

Concen: 24.388 ug/l

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW011954.D

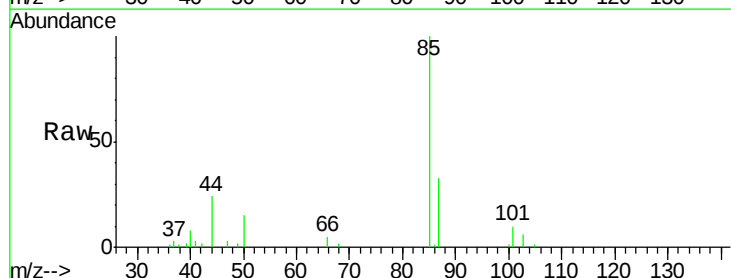
Acq: 16 Aug 2019 10:34

Tgt Ion: 85 Resp: 31017

Ion Ratio Lower Upper

85 100

87 33.4 15.2 45.6



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

12000

10000

8000

6000

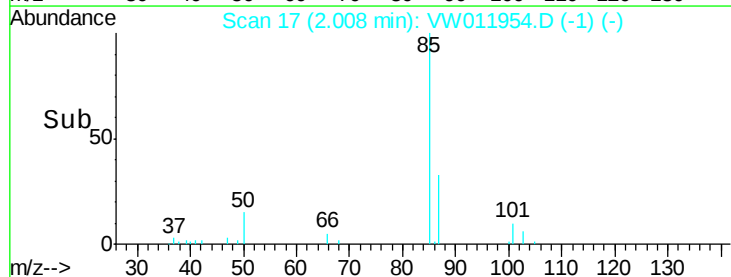
4000

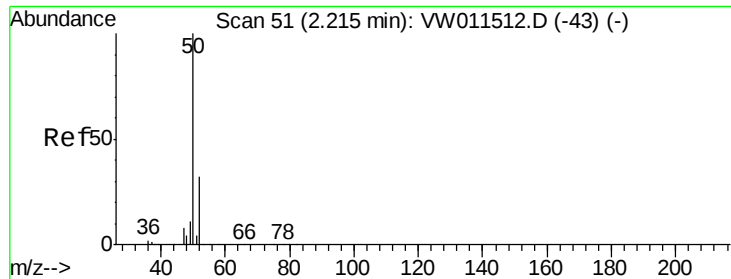
2000

0

1.90 2.00 2.10 2.20

Time-->





#3

Chloromethane

Concen: 21.916 ug/l

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW011954.D

Acq: 16 Aug 2019 10:34

Instrument :

MSVOA_W

ClientSampleId :

VW0817SBSD01

Tot Ion: 50 Resp: 48333

Ion Ratio Lower Upper

50 100

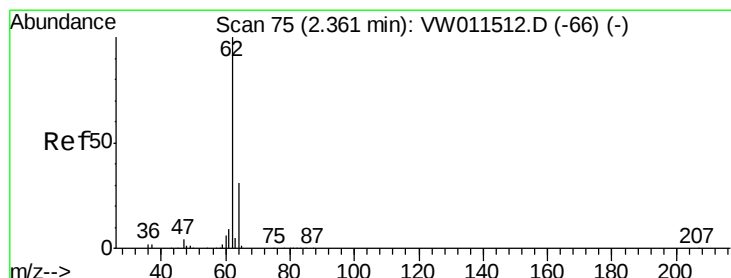
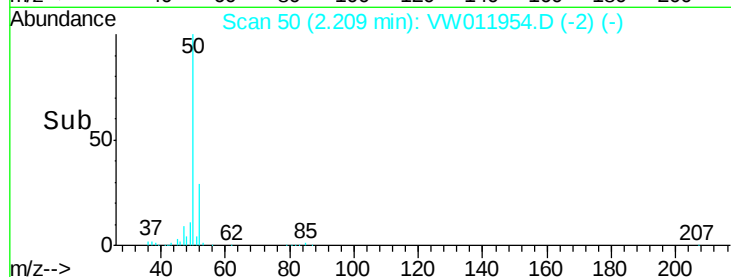
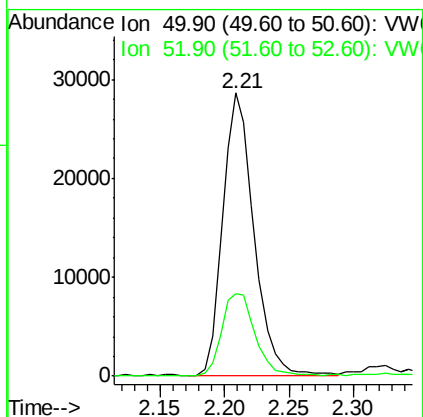
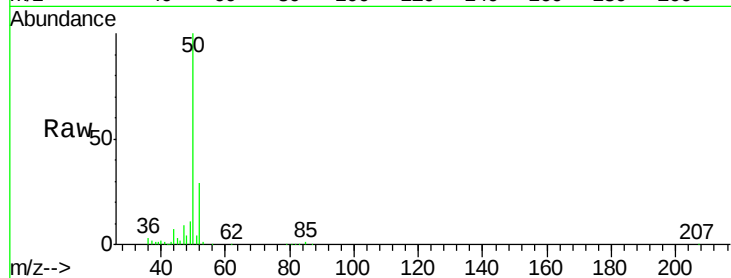
52 29.1 25.4 38.2

Manual Integrations

APPROVED

MMDadoda

8/19/2019 10:55:19 AM



#4

Vinyl Chloride

Concen: 22.930 ug/l

RT: 2.36 min Scan# 75

Delta R.T. 0.00 min

Lab File: VW011954.D

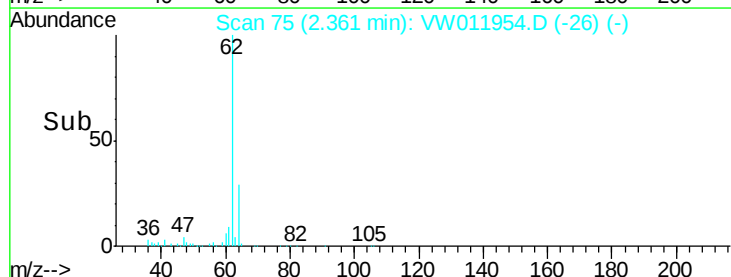
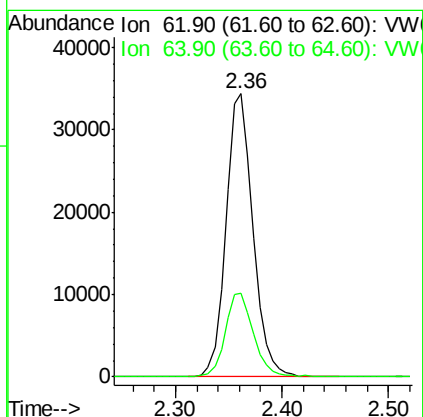
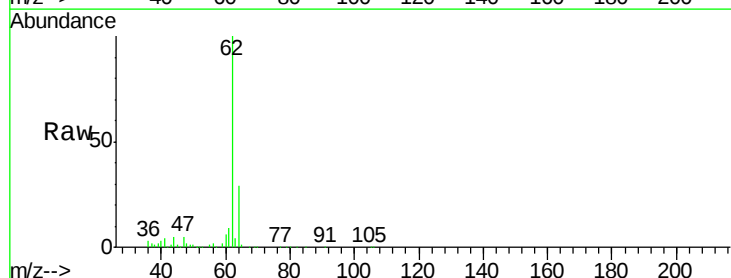
Acq: 16 Aug 2019 10:34

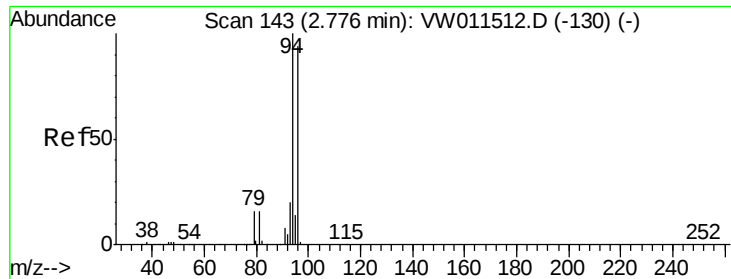
Tgt Ion: 62 Resp: 60881

Ion Ratio Lower Upper

62 100

64 29.3 25.0 37.4





#5

Bromomethane

Concen: 20.496 ug/l

RT: 2.76 min Scan# 141

Delta R.T. -0.01 min

Lab File: VW011954.D

Acq: 16 Aug 2019 10:34

Instrument :

MSVOA_W

ClientSampleId :

VW0817SBSD01

Tot Ion: 94 Resp: 30122

Ion Ratio Lower Upper

94 100

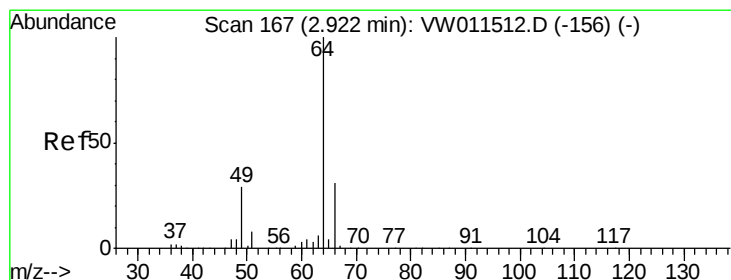
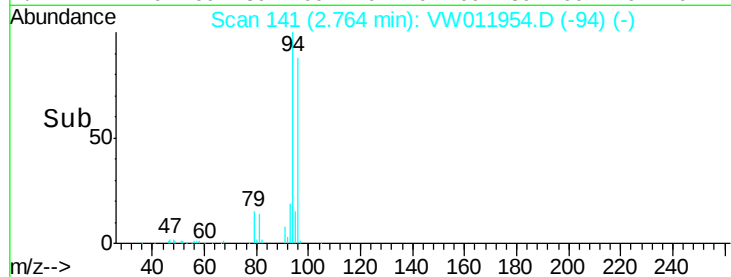
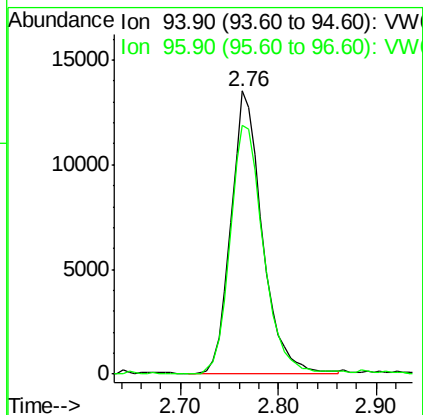
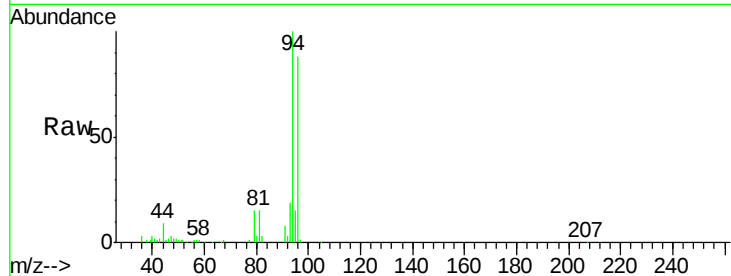
96 88.0 75.0 112.6

Manual Integrations

APPROVED

MMDadoda

8/19/2019 10:55:19 AM



#6

Chloroethane

Concen: 21.785 ug/l

RT: 2.92 min Scan# 166

Delta R.T. -0.01 min

Lab File: VW011954.D

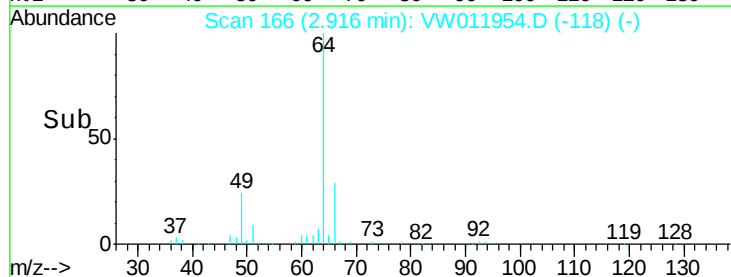
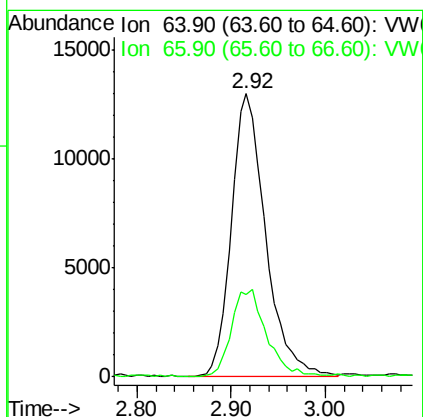
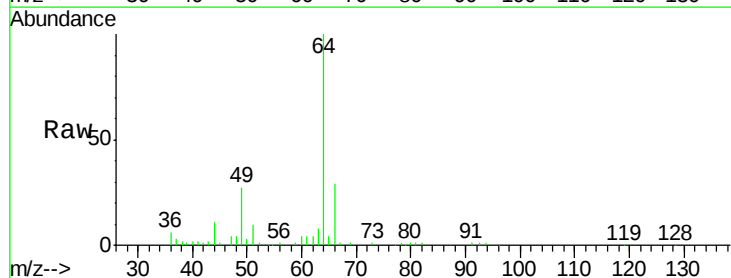
Acq: 16 Aug 2019 10:34

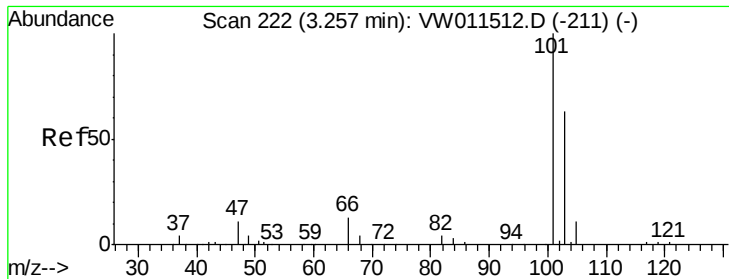
Tgt Ion: 64 Resp: 33040

Ion Ratio Lower Upper

64 100

66 29.1 24.6 36.8





#7

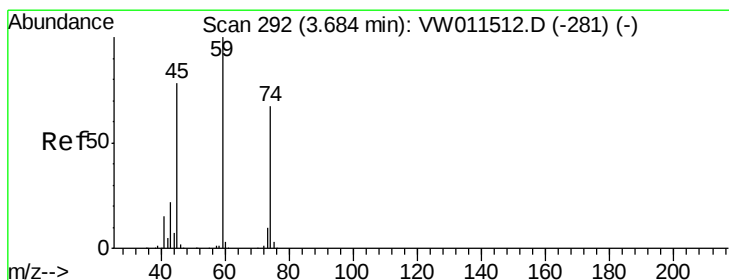
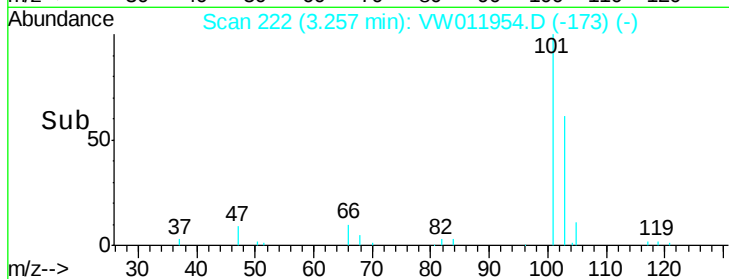
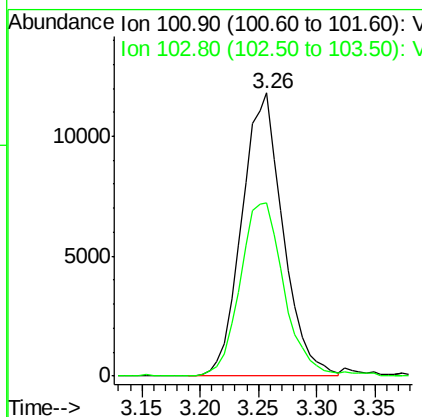
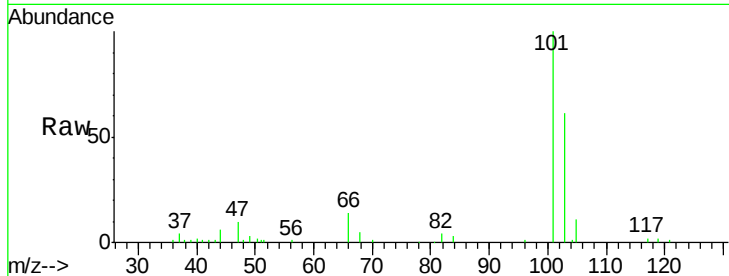
Trichlorofluoromethane
 Concen: 24.550 ug/l
 RT: 3.26 min Scan# 222
 Delta R.T. 0.00 min
 Lab File: VW011954.D
 Acq: 16 Aug 2019 10:34

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0817SBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	61.3	50.2	75.4

Manual Integrations
 APPROVED

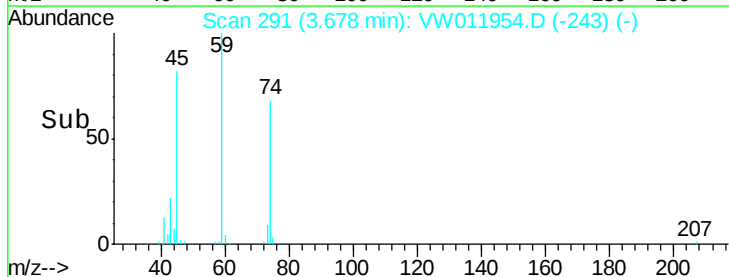
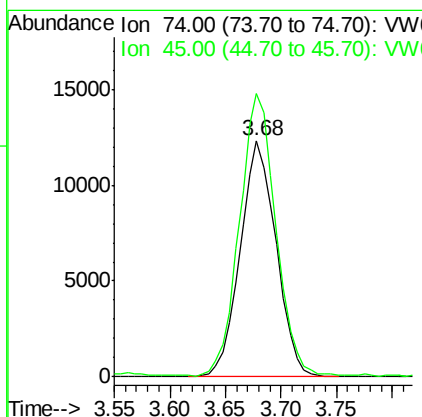
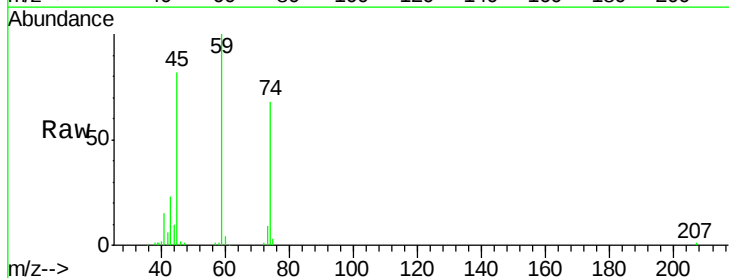
MMDadoda
 8/19/2019 10:55:19 AM

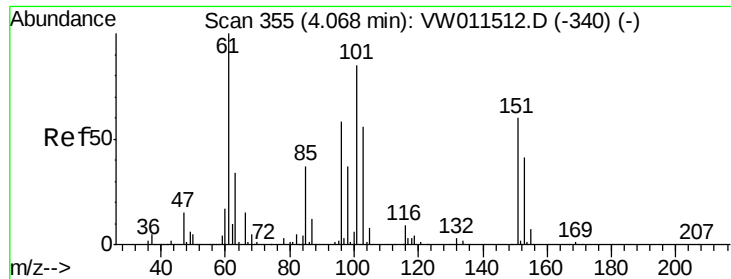


#8

Diethyl Ether
 Concen: 20.473 ug/l
 RT: 3.68 min Scan# 291
 Delta R.T. -0.01 min
 Lab File: VW011954.D
 Acq: 16 Aug 2019 10:34

Tgt Ion	Ratio	Lower	Upper
74	100		
45	121.2	59.6	178.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.171 ug/l

RT: 4.07 min Scan# 355

Delta R.T. 0.00 min

Lab File: VW011954.D

Acq: 16 Aug 2019 10:34

Instrument :

MSVOA_W

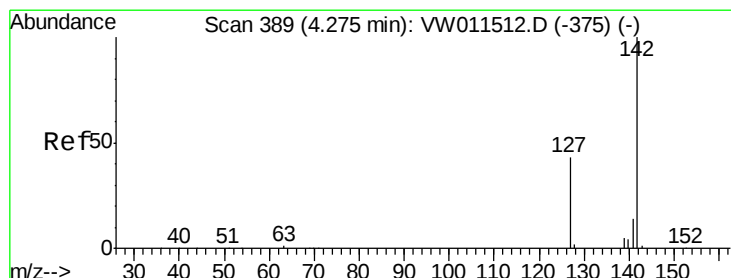
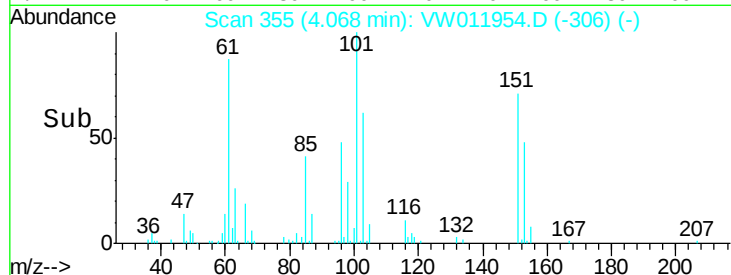
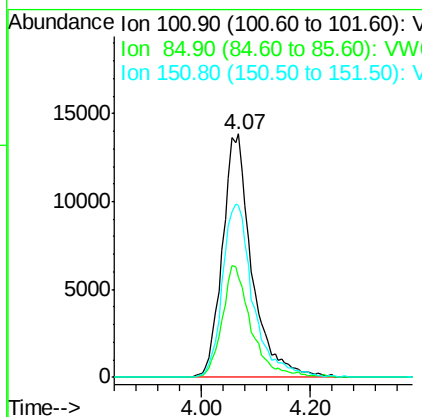
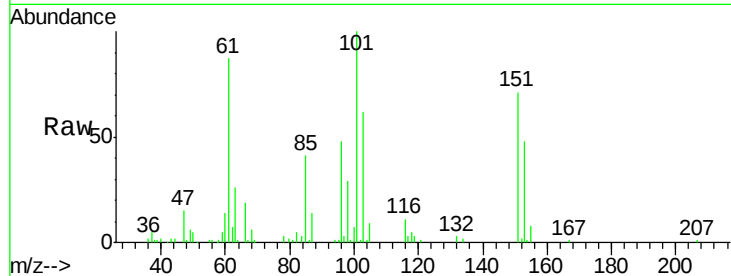
ClientSampleId :

VW0817SBSD01

Tot Ion:	101	Resp:	52156
Ion Ratio	Lower	Upper	
101	100		
85	44.8	36.6	54.8
151	74.1	60.2	90.2

Manual Integrations
APPROVED

MMDadoda
8/19/2019 10:55:19 AM



#10

Methyl Iodide

Concen: 21.430 ug/l

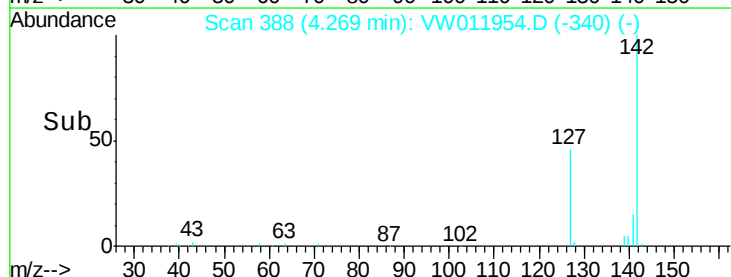
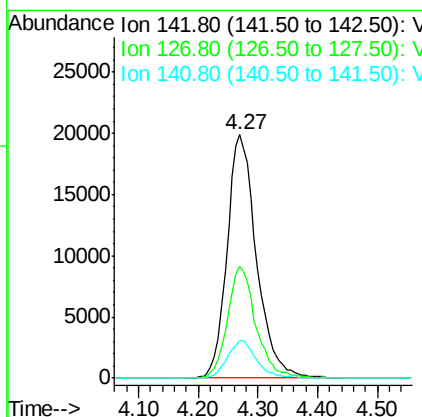
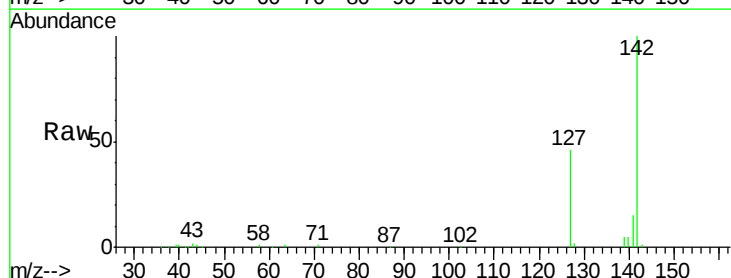
RT: 4.27 min Scan# 388

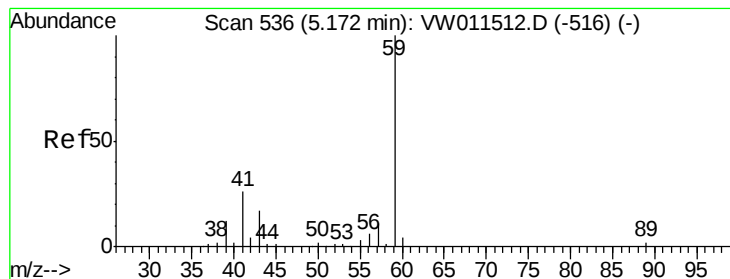
Delta R.T. -0.01 min

Lab File: VW011954.D

Acq: 16 Aug 2019 10:34

Tgt Ion:	142	Resp:	68168
Ion Ratio	Lower	Upper	
142	100		
127	44.3	35.0	52.6
141	14.9	11.9	17.9





#11

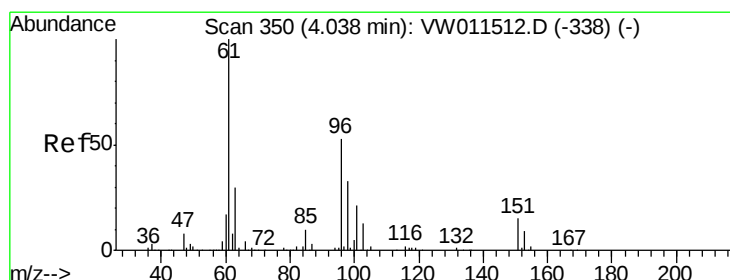
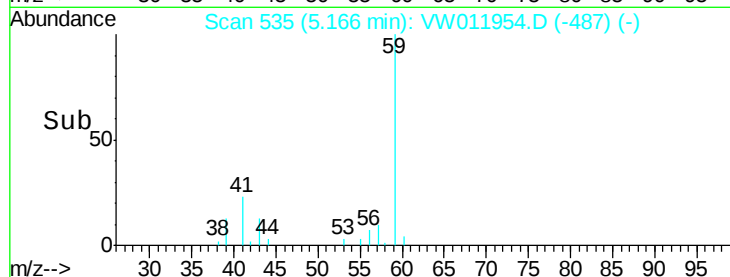
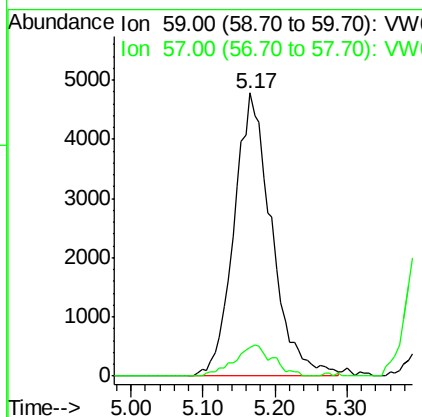
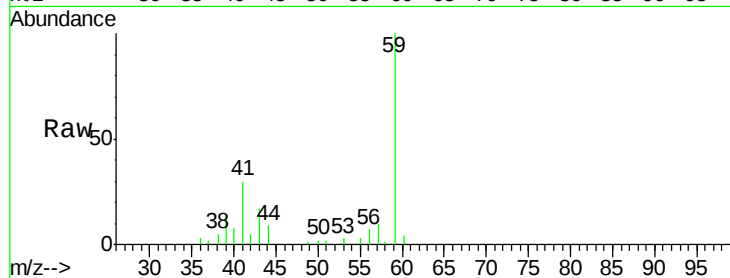
Tert butyl alcohol
 Concen: 77.272 ug/l
 RT: 5.17 min Scan# 535
 Delta R.T. -0.01 min
 Lab File: VW011954.D
 Acq: 16 Aug 2019 10:34

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0817SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
59	100		17326		
57	11.2			8.5	12.7

Manual Integrations
 APPROVED

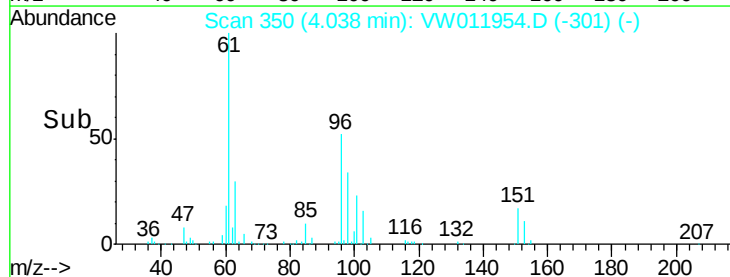
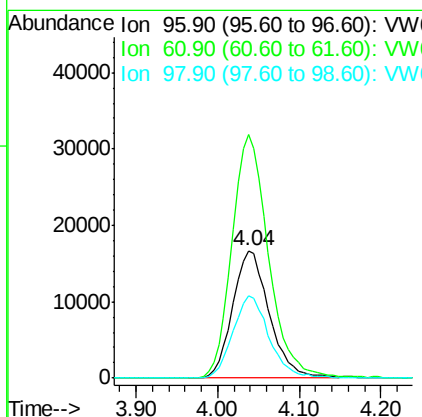
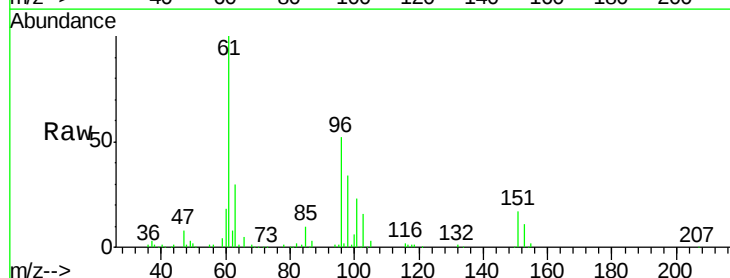
MMDadoda
 8/19/2019 10:55:19 AM

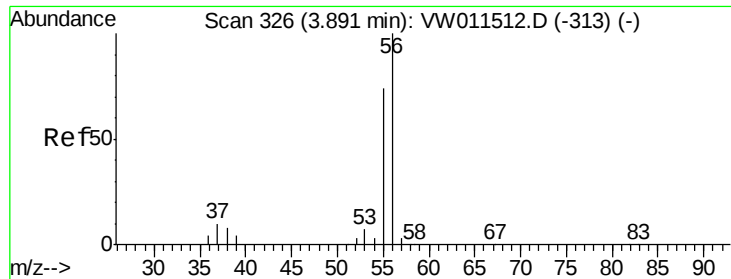


#12

1,1-Dichloroethene
 Concen: 21.782 ug/l
 RT: 4.04 min Scan# 350
 Delta R.T. 0.00 min
 Lab File: VW011954.D
 Acq: 16 Aug 2019 10:34

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
96	100		51769		
61	191.1			149.9	224.9
98	64.5			49.1	73.7





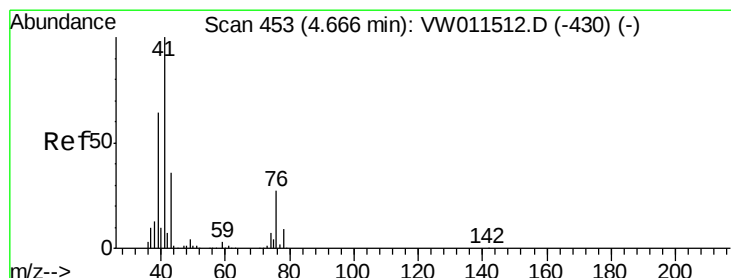
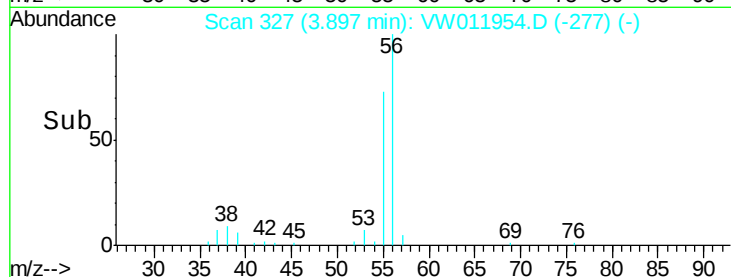
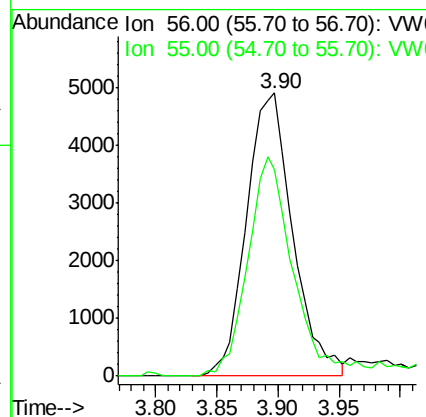
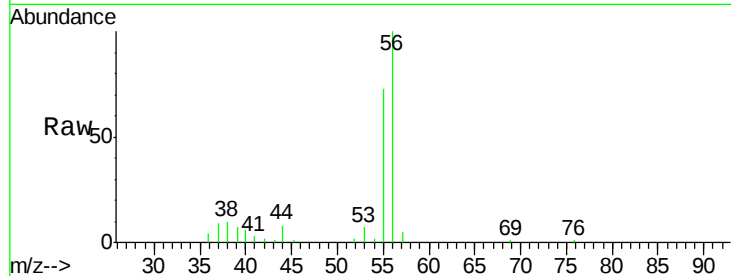
#13
Acrolein
Concen: 68.693 ug/l
RT: 3.90 min Scan# 327
Delta R.T. 0.01 min
Lab File: VW011954.D
Acq: 16 Aug 2019 10:34

Instrument :
MSVOA_W
ClientSampleId :
VW0817SBSD01

Tot Ion	Ratio	Lower	Upper
56	100		
55	76.2	56.0	84.0

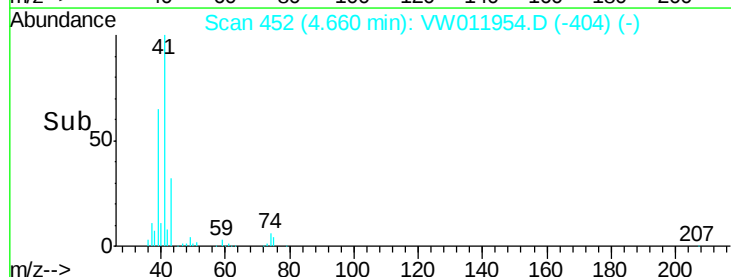
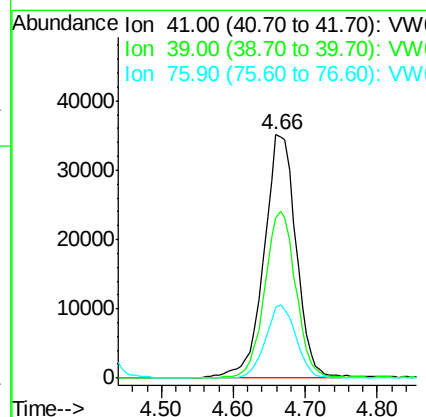
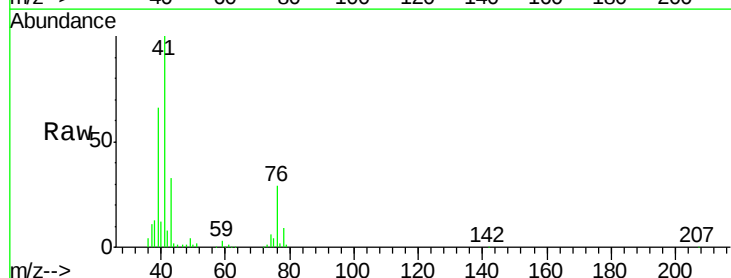
Manual Integrations
APPROVED

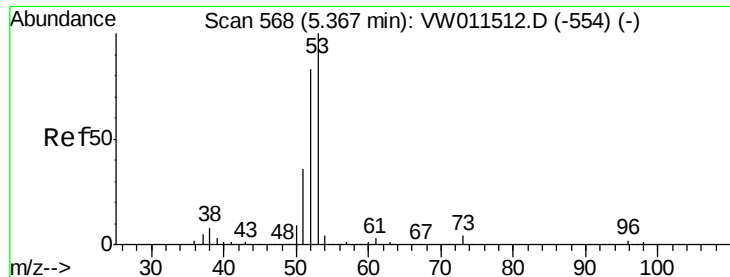
MMDadoda
8/19/2019 10:55:19 AM



#14
Allyl chloride
Concen: 21.528 ug/l
RT: 4.66 min Scan# 452
Delta R.T. -0.01 min
Lab File: VW011954.D
Acq: 16 Aug 2019 10:34

Tgt Ion	Ratio	Lower	Upper
41	100		
39	65.8	52.6	78.8
76	28.5	22.0	33.0





#15

Acrylonitrile

Concen: 101.774 ug/l

RT: 5.37 min Scan# 568

Delta R.T. 0.00 min

Lab File: VW011954.D

Acq: 16 Aug 2019 10:34

Instrument :

MSVOA_W

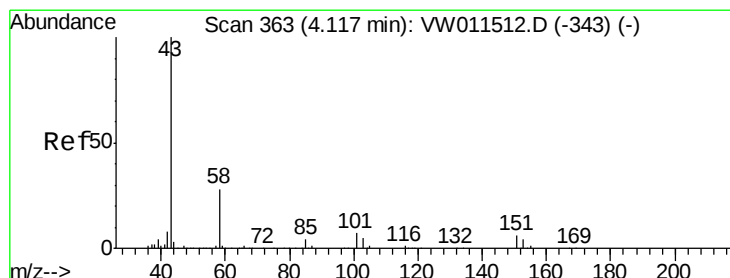
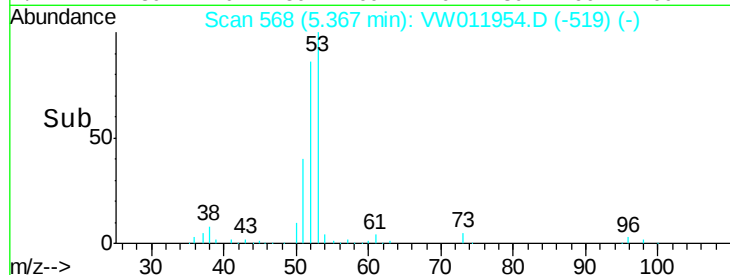
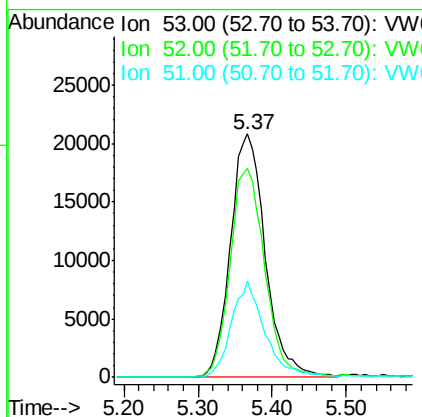
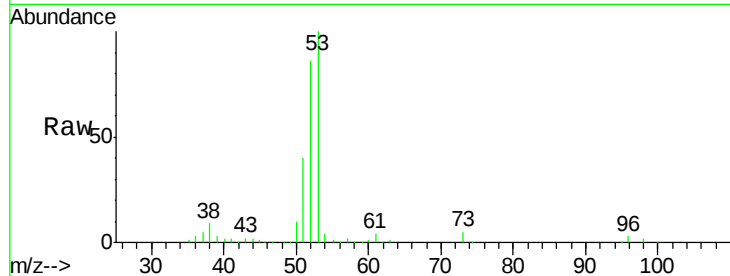
ClientSampleId :

VW0817SBS01

Tot Ion:	53	Resp:	68352
Ion	Ratio	Lower	Upper
53	100		
52	85.7	67.2	100.8
51	37.9	30.0	45.0

Manual Integrations
APPROVED

MMDadoda
8/19/2019 10:55:19 AM



#16

Acetone

Concen: 86.179 ug/l

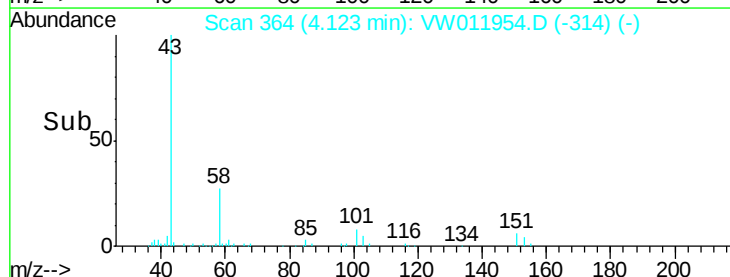
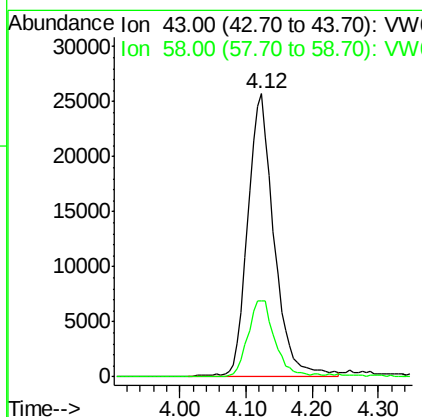
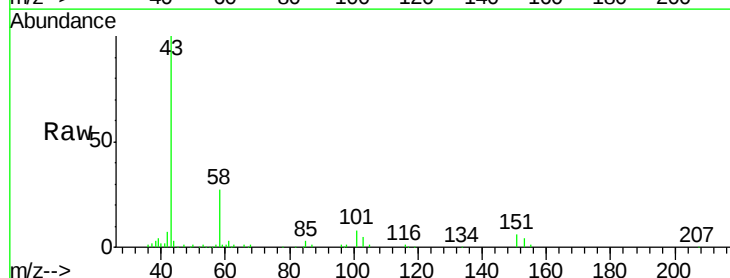
RT: 4.12 min Scan# 364

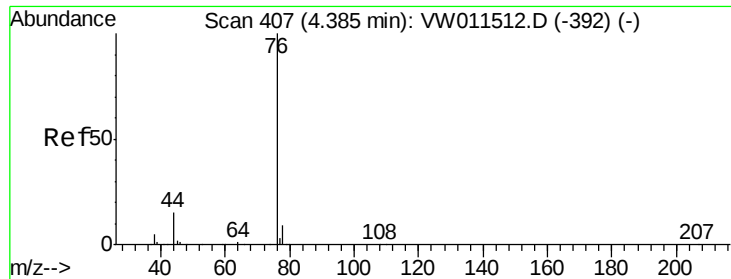
Delta R.T. 0.01 min

Lab File: VW011954.D

Acq: 16 Aug 2019 10:34

Tgt Ion:	43	Resp:	71835
Ion	Ratio	Lower	Upper
43	100		
58	26.7	22.3	33.5





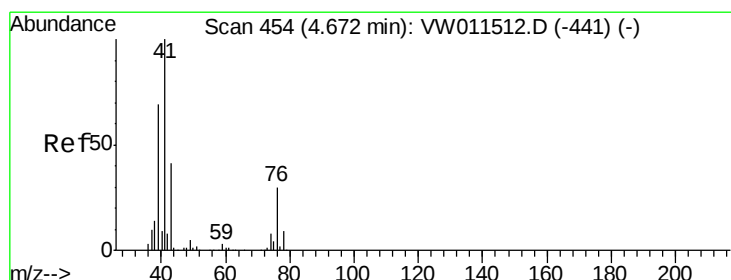
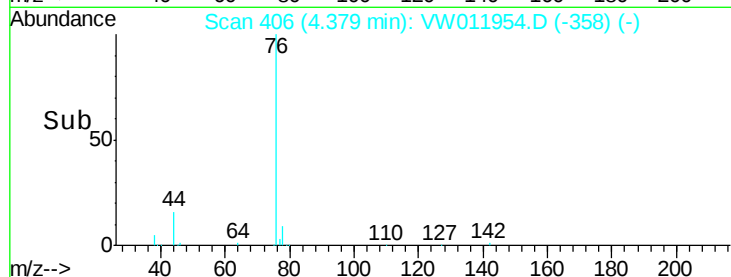
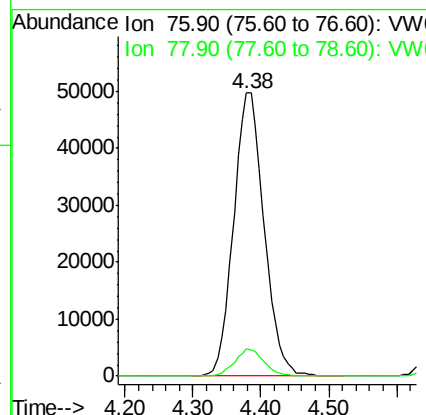
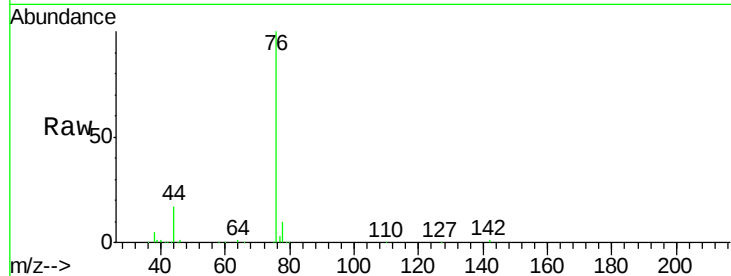
#17
Carbon Disulfide
Concen: 20.754 ug/l
RT: 4.38 min Scan# 406
Delta R.T. -0.01 min
Lab File: VW011954.D
Acq: 16 Aug 2019 10:34

Instrument :
MSVOA_W
ClientSampleId :
VW0817SBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.6	7.1	10.7

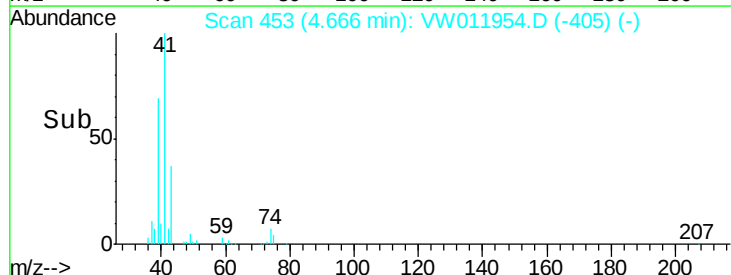
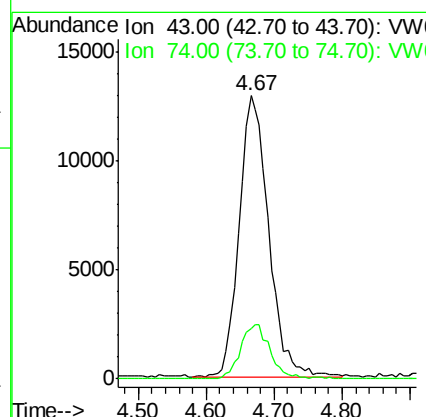
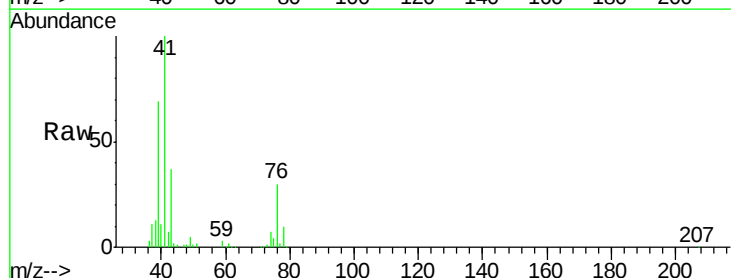
Manual Integrations
APPROVED

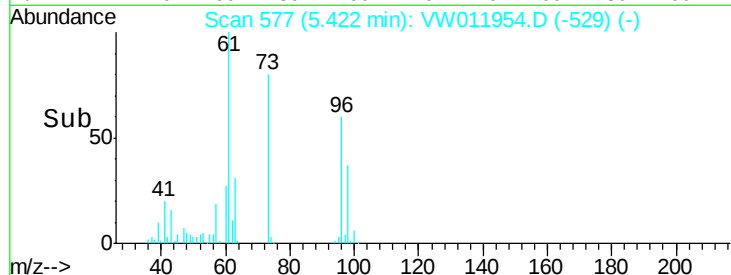
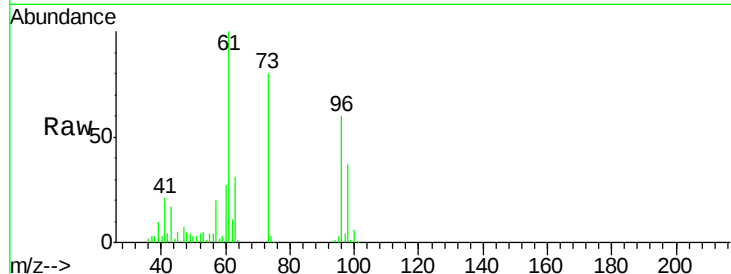
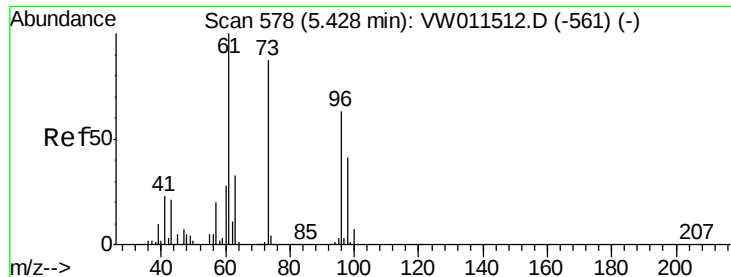
MMDadoda
8/19/2019 10:55:19 AM



#18
Methyl Acetate
Concen: 20.567 ug/l
RT: 4.67 min Scan# 453
Delta R.T. -0.01 min
Lab File: VW011954.D
Acq: 16 Aug 2019 10:34

Tgt Ion	Ratio	Lower	Upper
43	100		
74	19.3	15.9	23.9





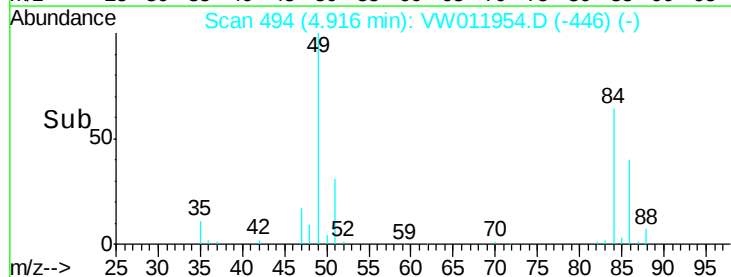
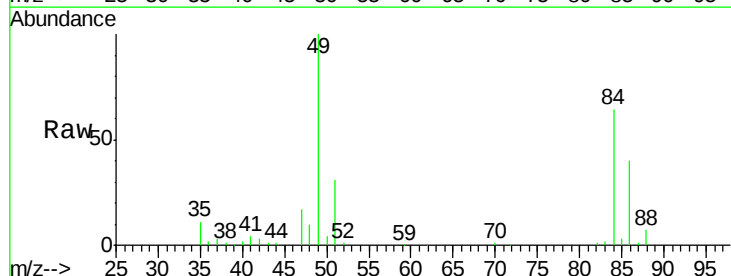
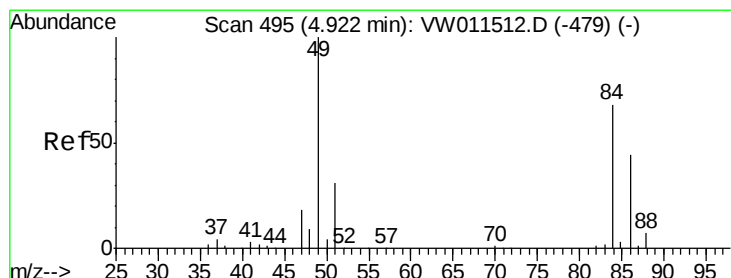
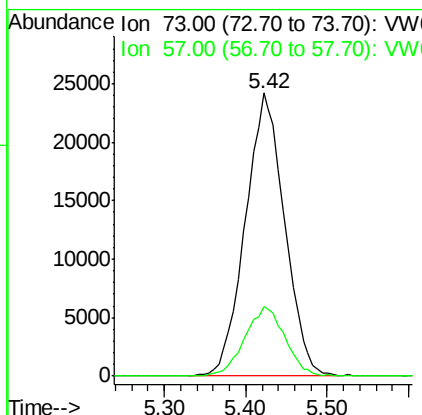
#19
Methvl tert-butvl Ether
Concen: 21.480 ug/l
RT: 5.42 min Scan# 577
Delta R.T. -0.01 min
Lab File: VW011954.D
Acq: 16 Aug 2019 10:34

Tot Ion	73	Resp	81010
Ion Ratio	100	Lower	Upper
57	24.7	18.4	27.6

Instrument :
MSVOA_W
ClientSampleId :
VW0817SBS01

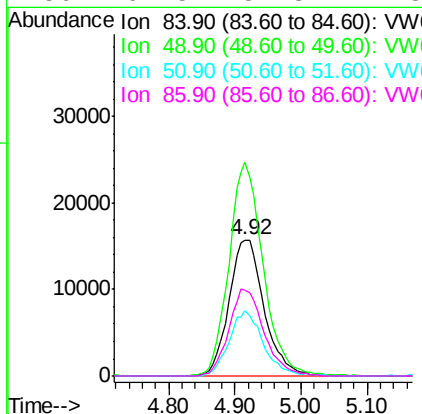
Manual Integrations
APPROVED

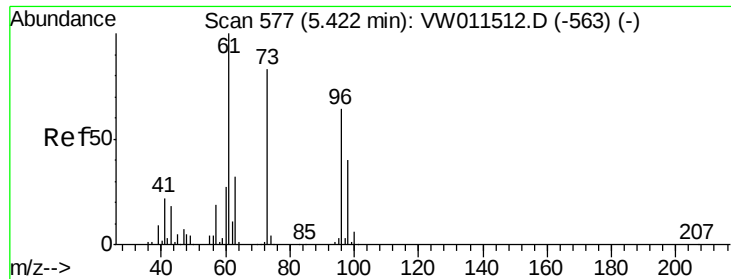
MMDadoda
8/19/2019 10:55:19 AM



#20
Methylene Chloride
Concen: 20.210 ug/l
RT: 4.92 min Scan# 494
Delta R.T. -0.01 min
Lab File: VW011954.D
Acq: 16 Aug 2019 10:34

Tgt Ion	84	Resp	58099
Ion Ratio	100	Lower	Upper
49	156.6	117.8	176.6
51	48.0	37.0	55.4
86	62.5	51.8	77.8





#21

trans-1,2-Dichloroethene

Concen: 21.770 ug/l

RT: 5.42 min Scan# 576

Delta R.T. -0.01 min

Lab File: VW011954.D

Acq: 16 Aug 2019 10:34

Instrument :

MSVOA_W

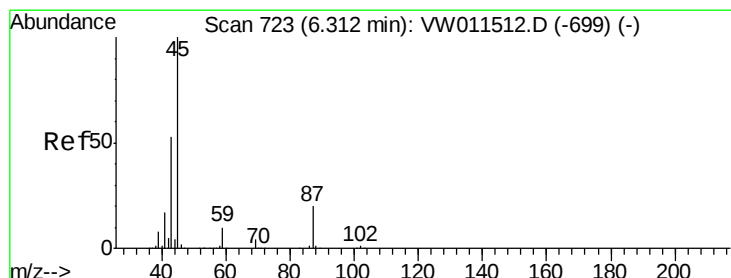
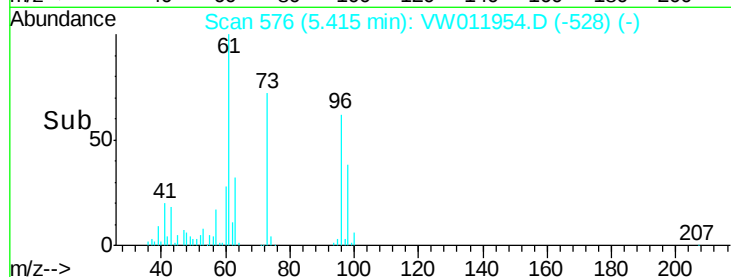
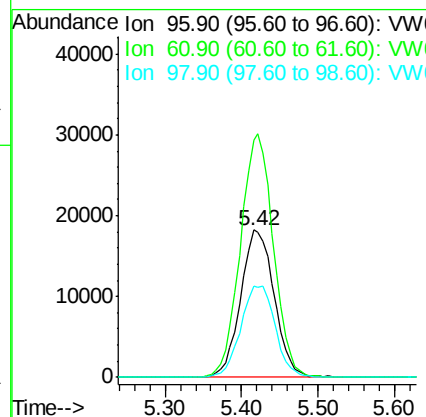
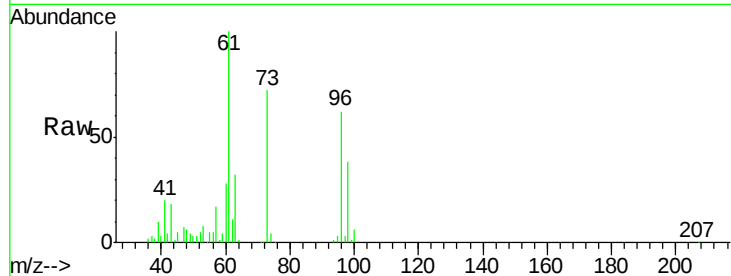
ClientSampleId :

VW0817SBS01

Tot Ion:	96	Resp:	55782
Ion	Ratio	Lower	Upper
96	100		
61	160.9	125.7	188.5
98	61.8	50.3	75.5

Manual Integrations
APPROVED

MMDadoda
8/19/2019 10:55:19 AM



#22

Diisopropyl ether

Concen: 21.546 ug/l

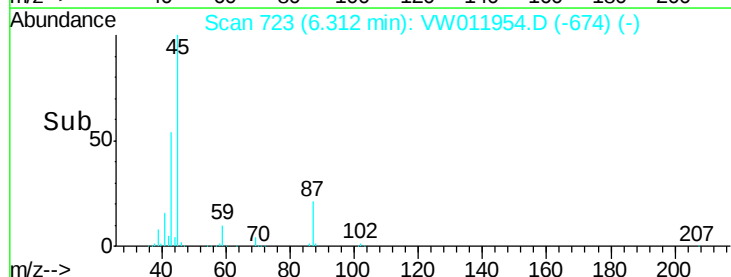
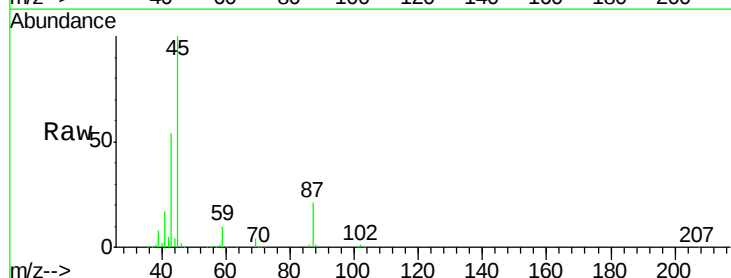
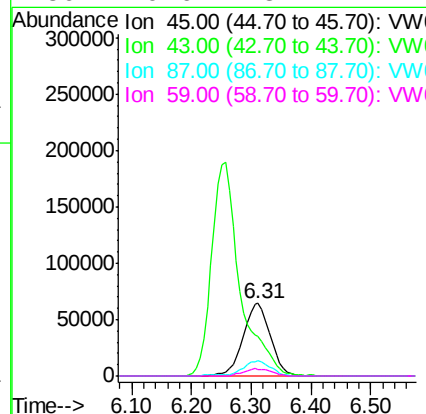
RT: 6.31 min Scan# 723

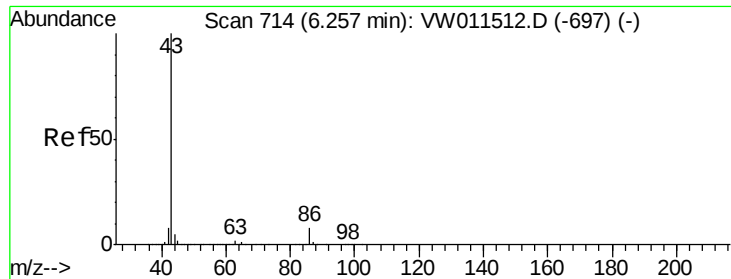
Delta R.T. 0.00 min

Lab File: VW011954.D

Acq: 16 Aug 2019 10:34

Tgt Ion:	45	Resp:	205343
Ion	Ratio	Lower	Upper
45	100		
43	53.8	42.6	63.8
87	20.7	16.4	24.6
59	9.6	8.2	12.2





#23

Vinyl Acetate

Concen: 104.164 ug/l

RT: 6.26 min Scan# 714

Delta R.T. 0.00 min

Lab File: VW011954.D

Acq: 16 Aug 2019 10:34

Instrument :

MSVOA_W

ClientSampleId :

VW0817SBS01

Tot Ion: 43 Resp: 623788

Ion Ratio Lower Upper

43 100

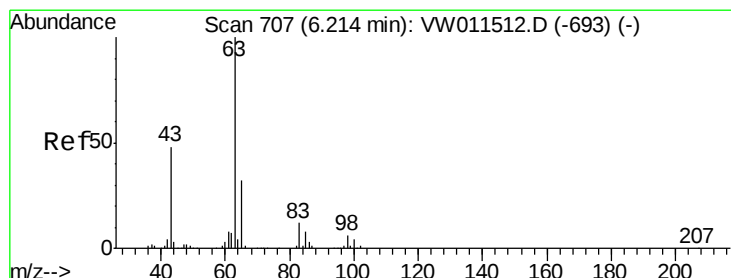
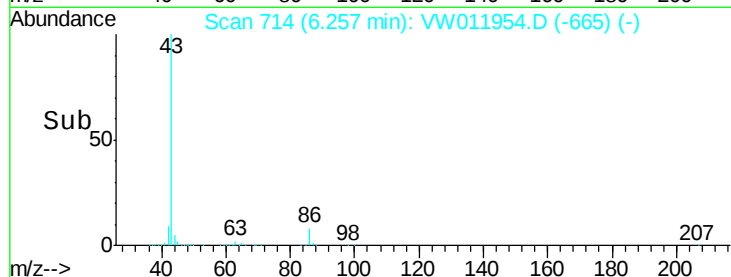
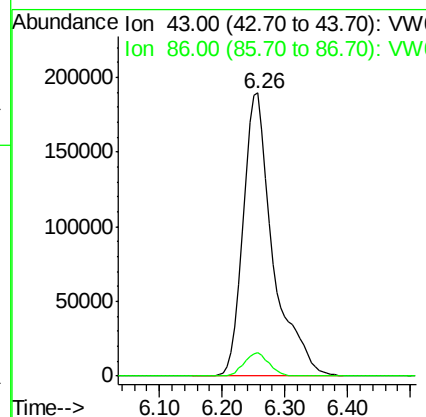
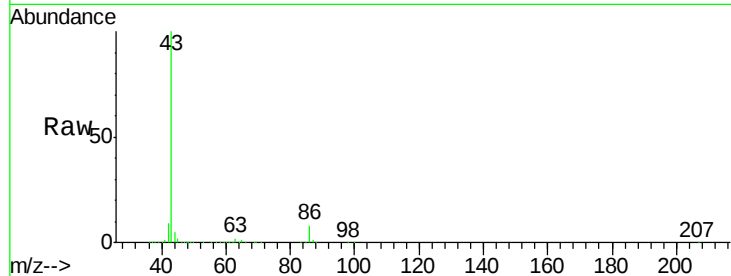
86 8.2 6.5 9.7

Manual Integrations

APPROVED

MMDadoda

8/19/2019 10:55:19 AM



#24

1,1-Dichloroethane

Concen: 21.506 ug/l

RT: 6.21 min Scan# 707

Delta R.T. 0.00 min

Lab File: VW011954.D

Acq: 16 Aug 2019 10:34

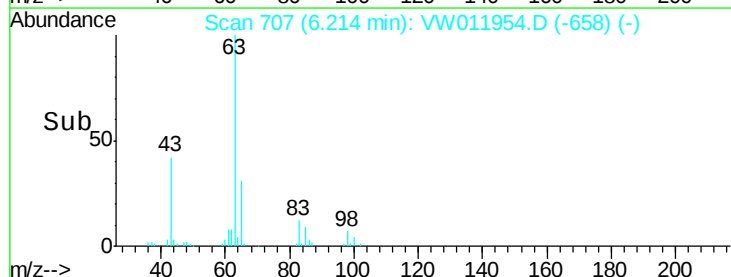
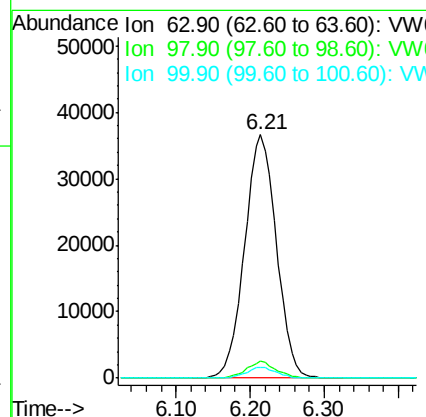
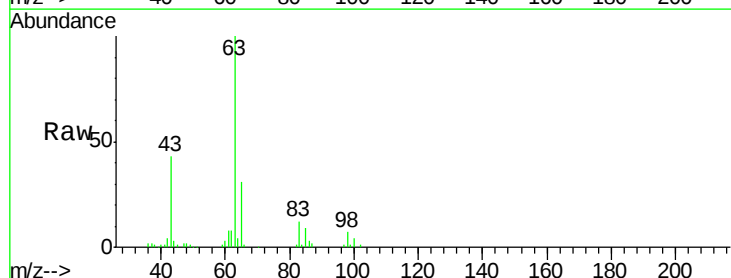
Tgt Ion: 63 Resp: 109771

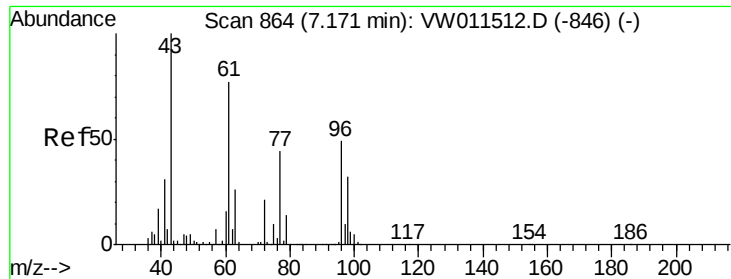
Ion Ratio Lower Upper

63 100

98 7.1 2.9 8.8

100 4.2 2.1 6.3





#25

2-Butanone

Concen: 93.404 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW011954.D

Acq: 16 Aug 2019 10:34

Instrument :

MSVOA_W

ClientSampleID :

VW0817SBS01

Tot Ion: 43 Resp: 101879

Ion Ratio Lower Upper

43 100

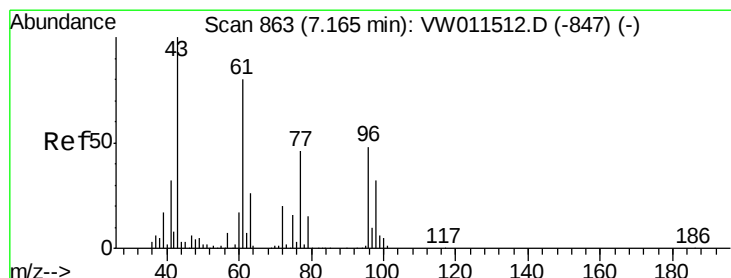
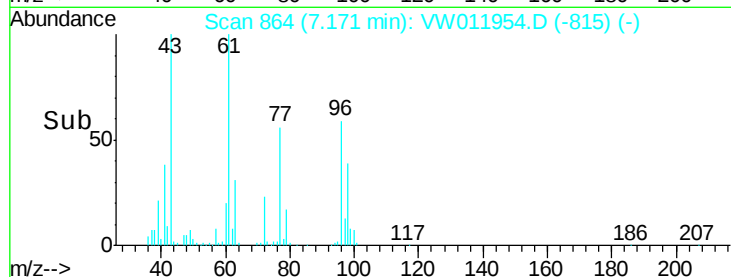
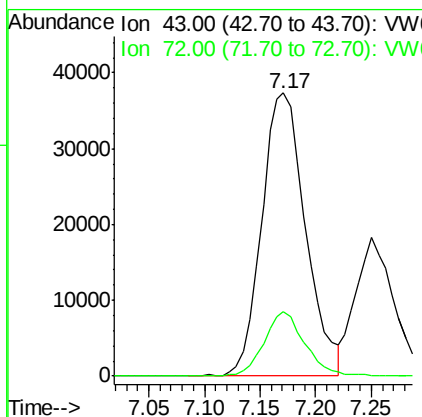
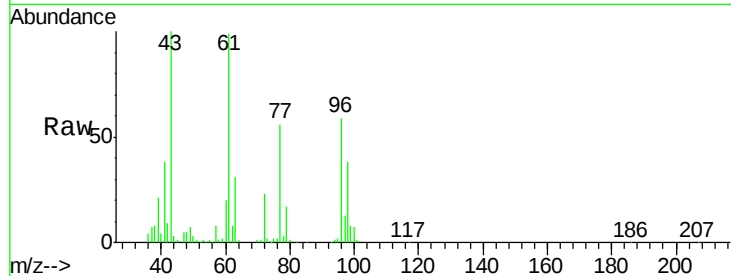
72 22.9 16.6 24.8

Manual Integrations

APPROVED

MMDadoda

8/19/2019 10:55:19 AM



#26

2,2-Dichloropropane

Concen: 20.149 ug/l

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW011954.D

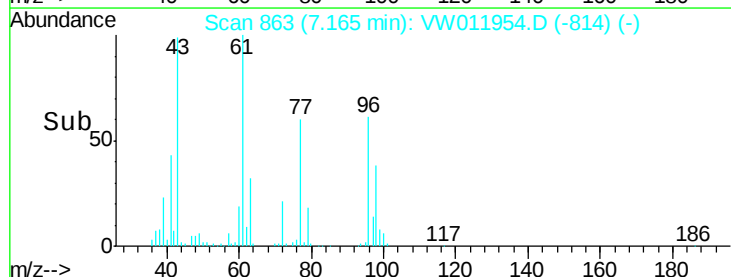
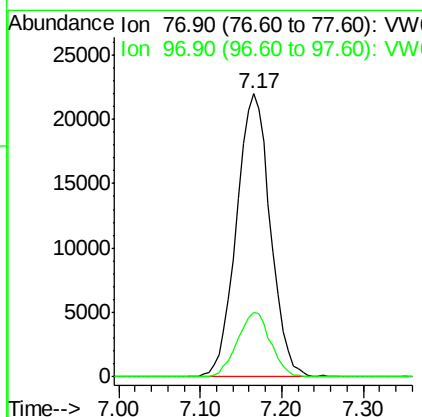
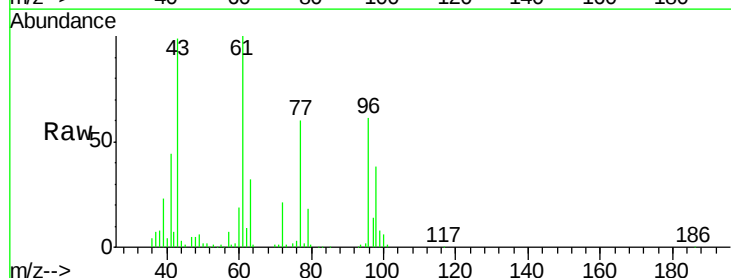
Acq: 16 Aug 2019 10:34

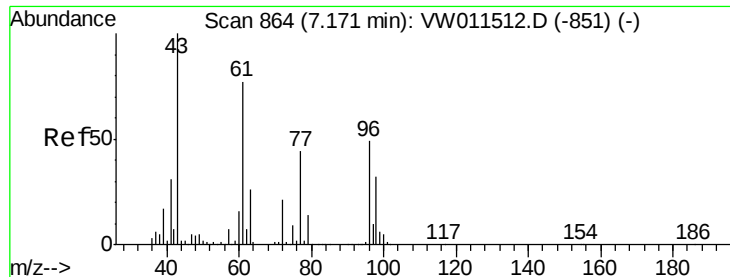
Tgt Ion: 77 Resp: 63247

Ion Ratio Lower Upper

77 100

97 22.2 10.8 32.4





#27

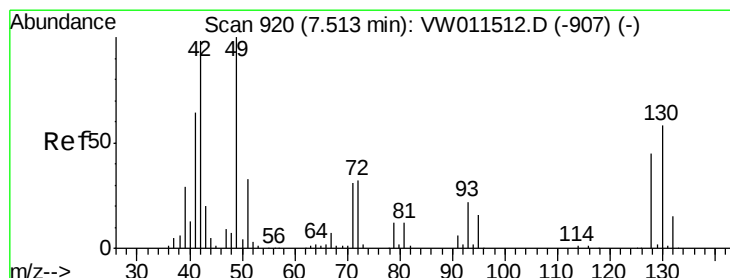
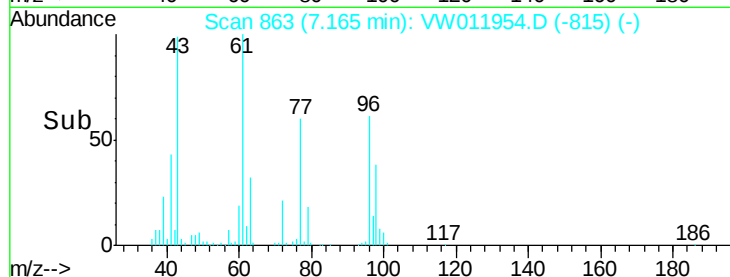
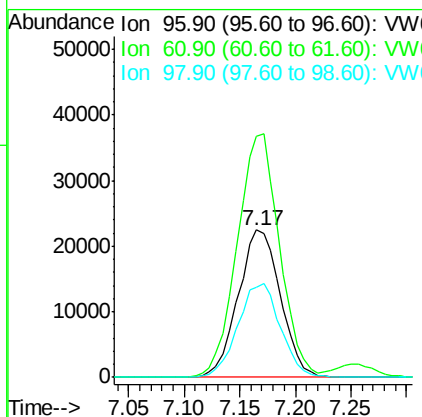
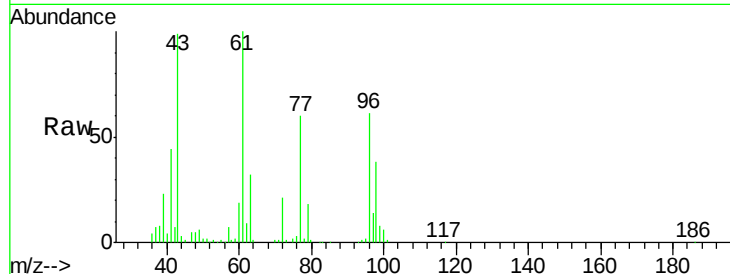
cis-1,2-Dichloroethene
Concen: 21.043 ug/l
RT: 7.17 min Scan# 863
Delta R.T. -0.01 min
Lab File: VW011954.D
Acq: 16 Aug 2019 10:34

Instrument :
MSVOA_W
ClientSampleId :
VW0817SBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	59343		
61	164.8	0.0	328.4	
98	63.9	0.0	128.8	

Manual Integrations
APPROVED

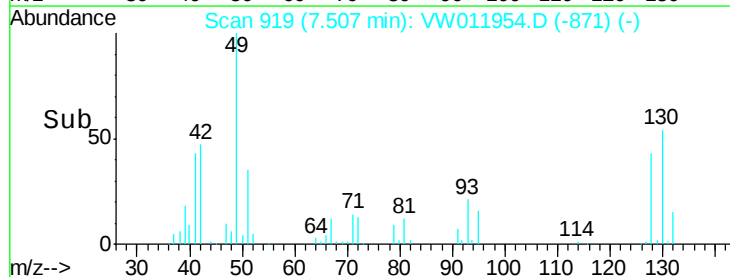
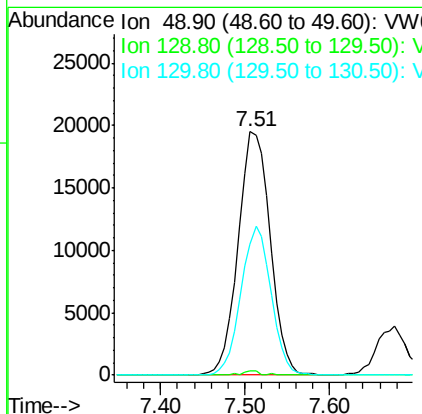
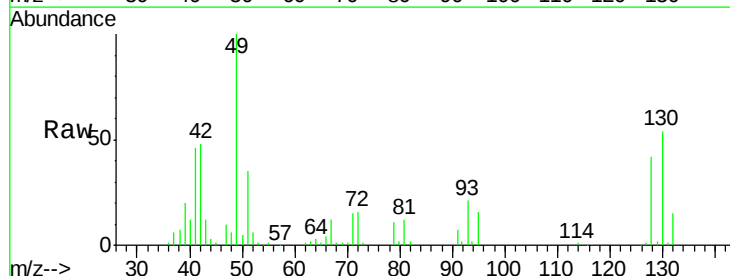
MMDadoda
8/19/2019 10:55:19 AM

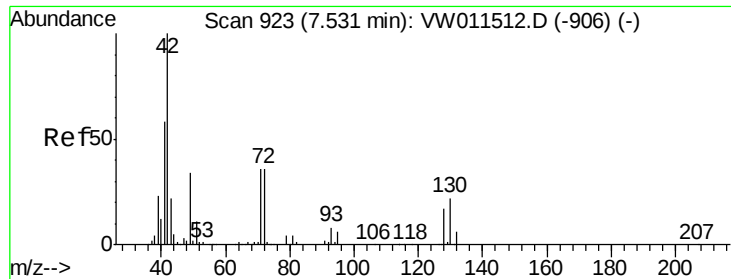


#28

Bromochloromethane
Concen: 22.117 ug/l
RT: 7.51 min Scan# 919
Delta R.T. -0.01 min
Lab File: VW011954.D
Acq: 16 Aug 2019 10:34

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	50108		
129	0.9	0.0	1.0	
130	57.5	46.3	69.5	





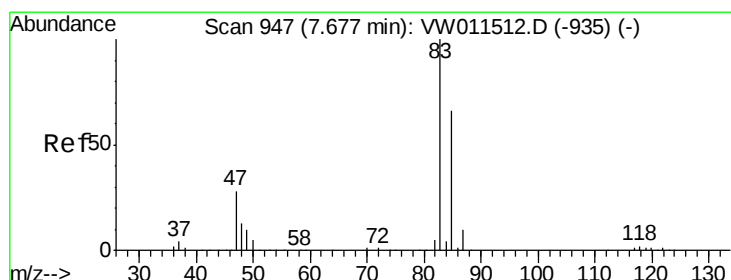
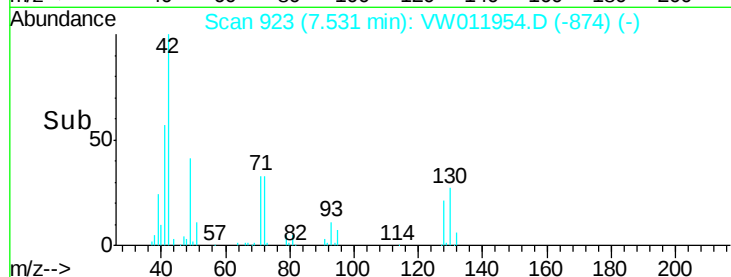
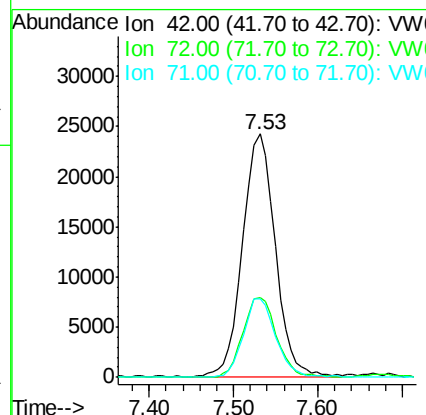
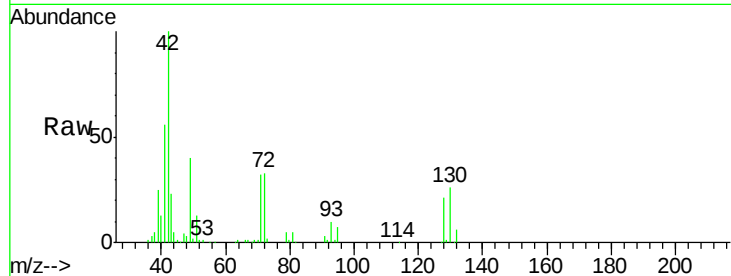
#29
Tetrahydrofuran
Concen: 101.273 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.00 min
Lab File: VW011954.D
Acq: 16 Aug 2019 10:34

Instrument :
MSVOA_W
ClientSampleId :
VW0817SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	34.3	27.1	40.7
71	31.8	26.2	39.4

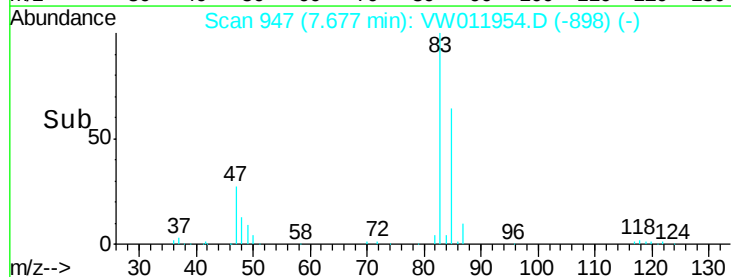
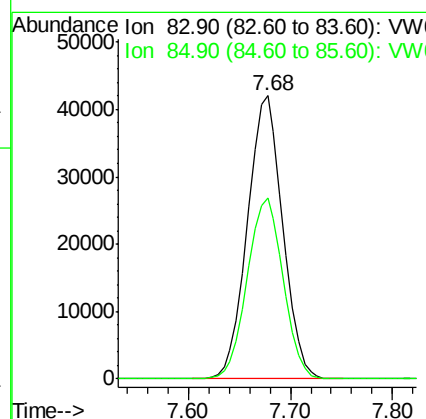
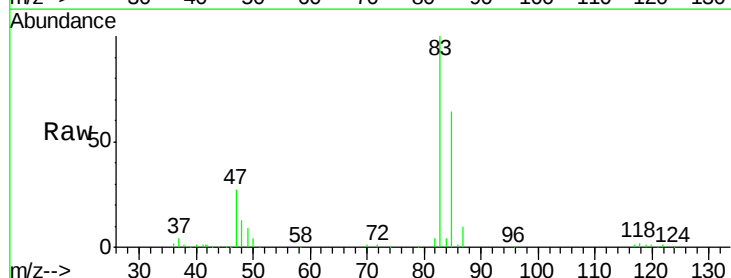
Manual Integrations
APPROVED

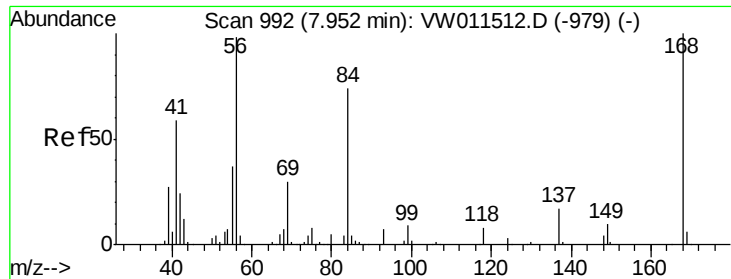
MMDadoda
8/19/2019 10:55:19 AM



#30
Chloroform
Concen: 21.467 ug/l
RT: 7.68 min Scan# 947
Delta R.T. 0.00 min
Lab File: VW011954.D
Acq: 16 Aug 2019 10:34

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.8	52.5	78.7





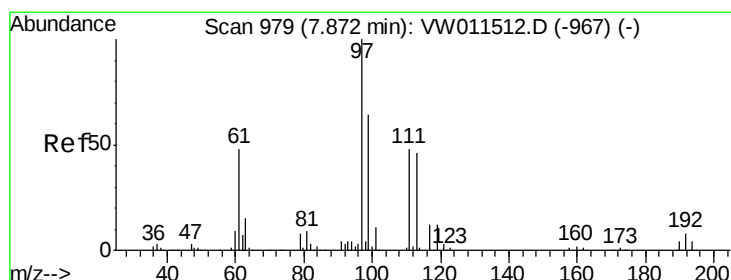
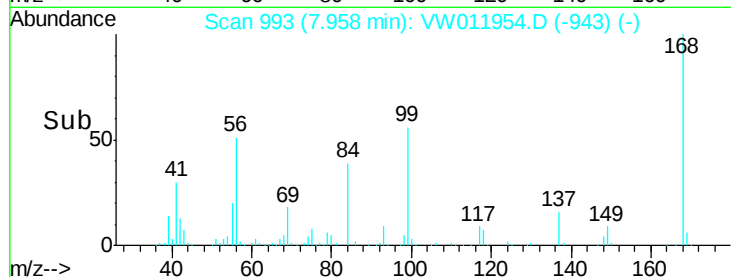
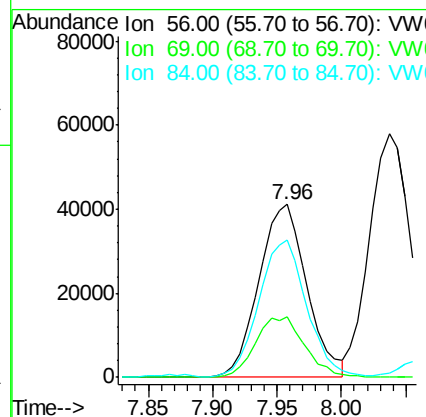
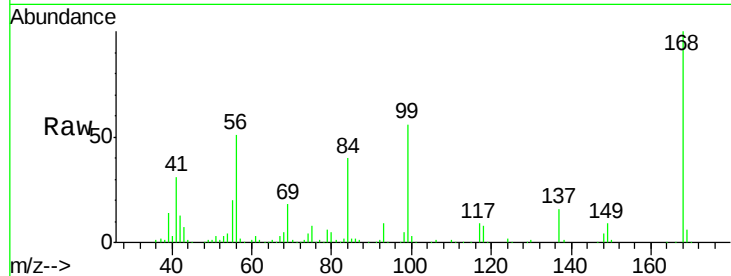
#31
Cyclohexane
Concen: 21.667 ug/l
RT: 7.96 min Scan# 993
Delta R.T. 0.01 min
Lab File: VW011954.D
Acq: 16 Aug 2019 10:34

Instrument :
MSVOA_W
ClientSampleId :
VW0817SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	34.8	24.3	36.5
84	78.5	60.4	90.6

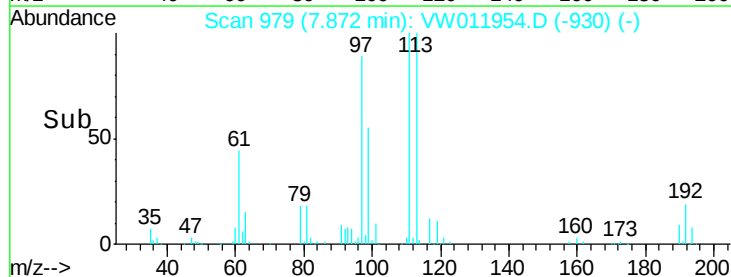
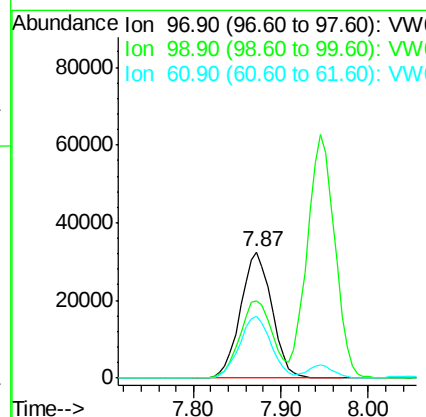
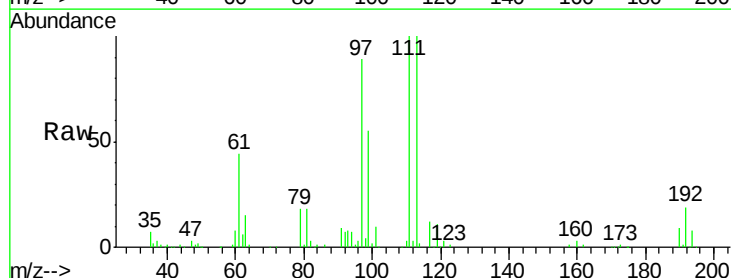
Manual Integrations
APPROVED

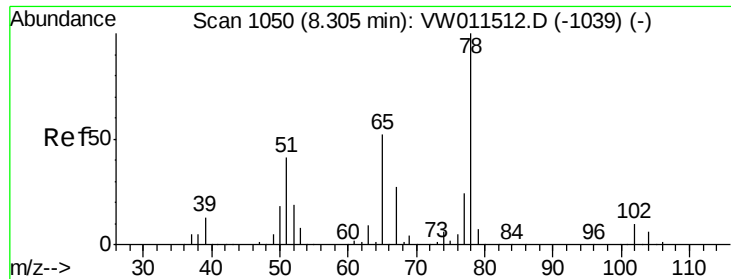
MMDadoda
8/19/2019 10:55:19 AM



#32
1,1,1-Trichloroethane
Concen: 22.430 ug/l
RT: 7.87 min Scan# 979
Delta R.T. 0.00 min
Lab File: VW011954.D
Acq: 16 Aug 2019 10:34

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.0	76.6
61	49.5	39.8	59.6





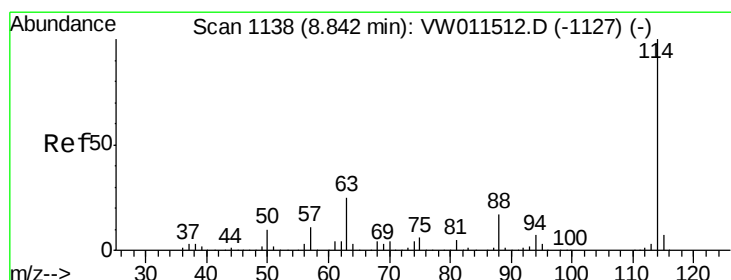
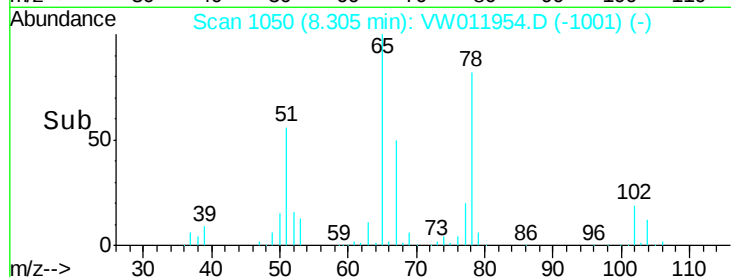
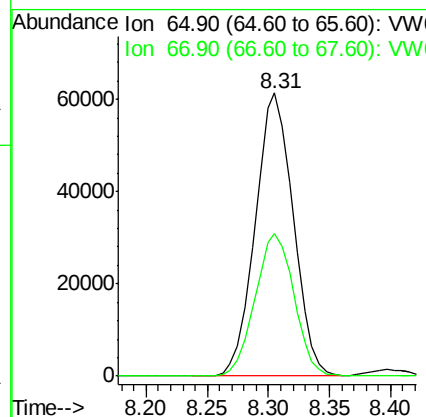
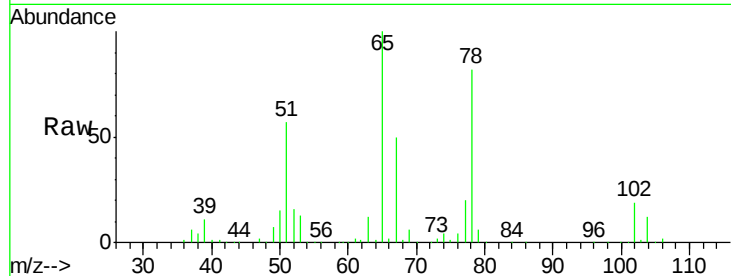
#33
 1,2-Dichloroethane-d4
 Concen: 50.695 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW011954.D
 Acq: 16 Aug 2019 10:34

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0817SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	51.6	0.0		105.2

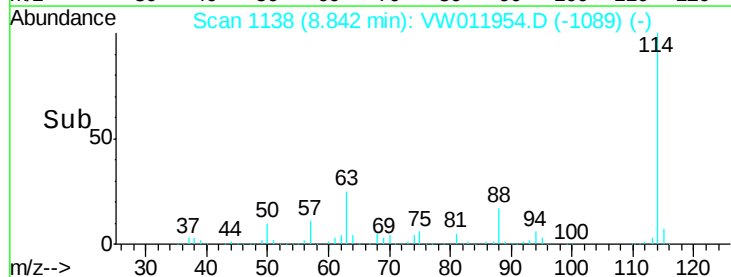
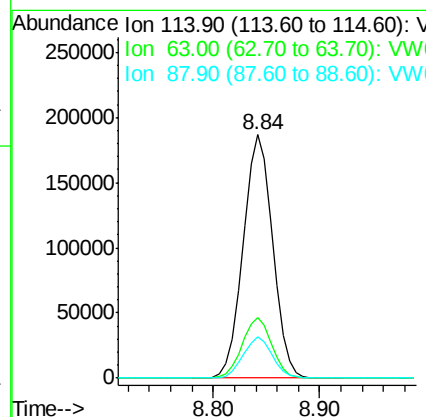
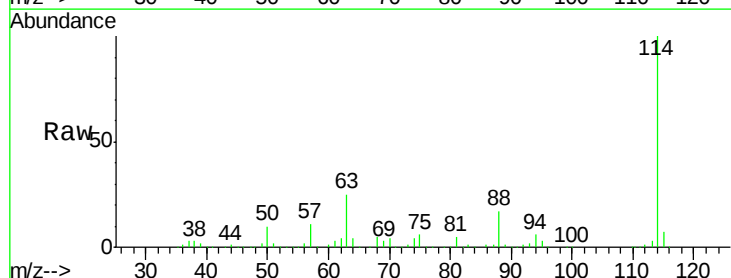
Manual Integrations
 APPROVED

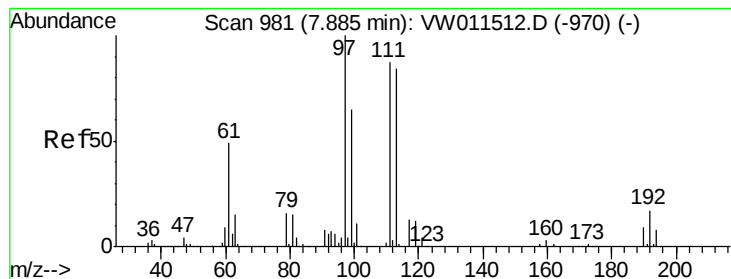
MMDadoda
 8/19/2019 10:55:19 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW011954.D
 Acq: 16 Aug 2019 10:34

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	25.1	0.0		49.2
88	16.9	0.0		33.8





#35

Dibromofluoromethane

Concen: 52.765 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW011954.D

Acq: 16 Aug 2019 10:34

Instrument :

MSVOA_W

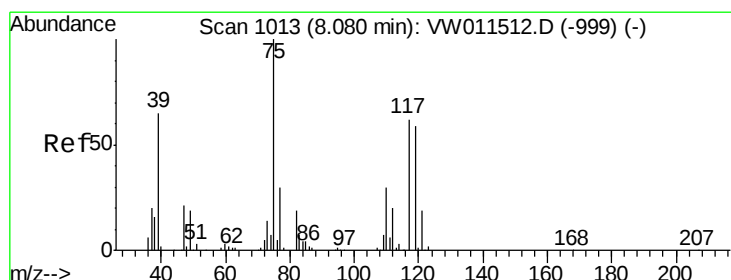
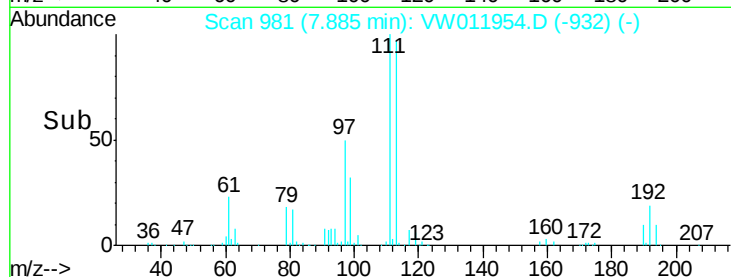
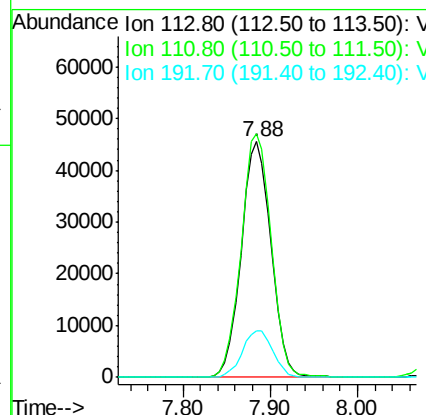
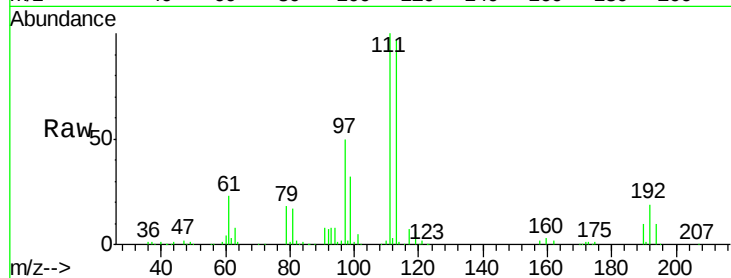
ClientSampleId :

VW0817SBS01

Tot Ion:	113	Resp:	107827
Ion Ratio	Lower	Upper	
113	100		
111	104.2	82.7	124.1
192	20.4	16.1	24.1

Manual Integrations
APPROVED

MMDadoda
8/19/2019 10:55:19 AM



#36

1,1-Dichloropropene

Concen: 22.699 ug/l

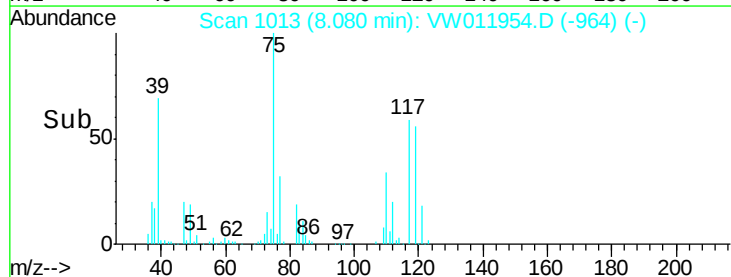
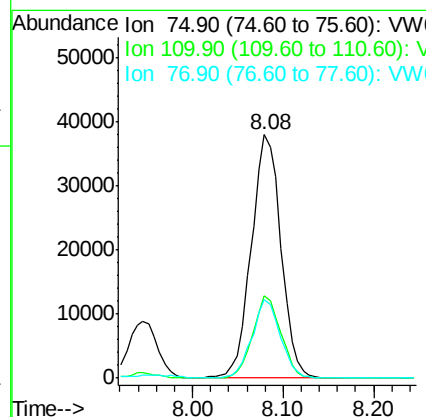
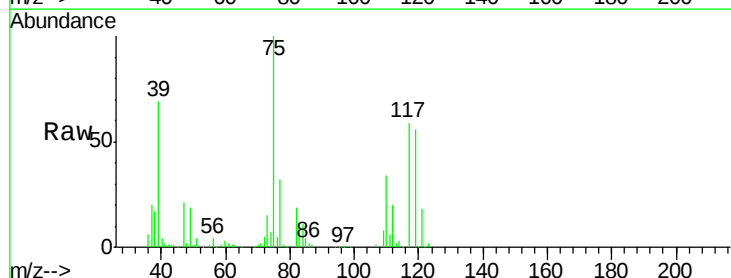
RT: 8.08 min Scan# 1013

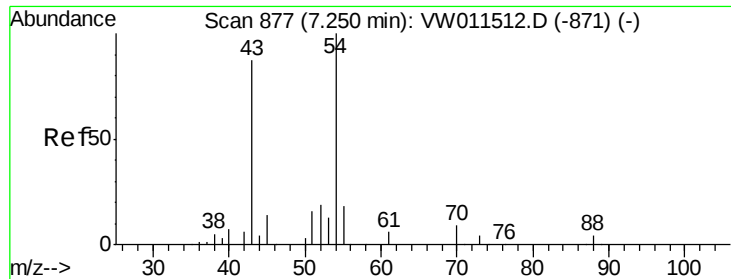
Delta R.T. 0.00 min

Lab File: VW011954.D

Acq: 16 Aug 2019 10:34

Tgt Ion:	75	Resp:	85973
Ion Ratio	Lower	Upper	
75	100		
110	32.1	15.6	46.8
77	31.1	24.3	36.5





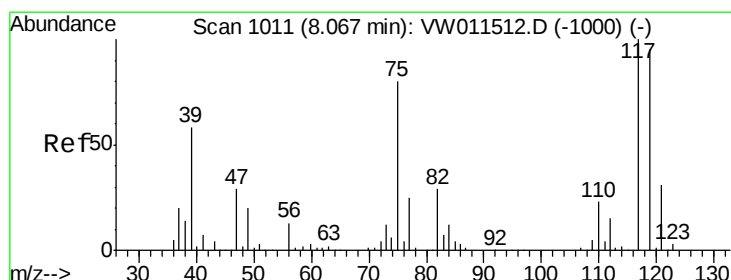
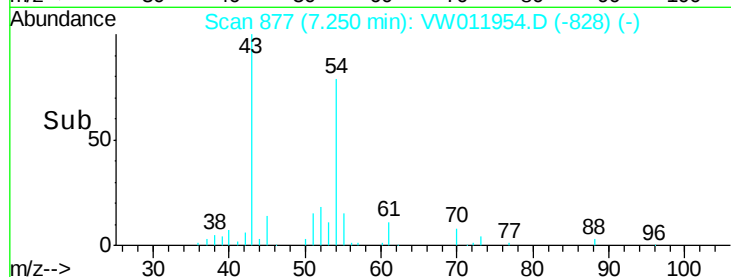
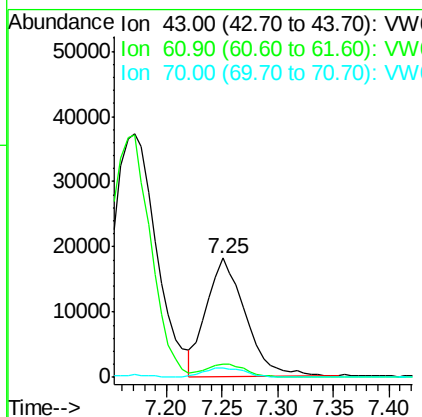
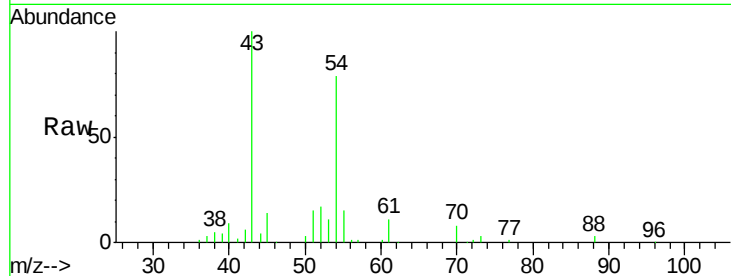
#37
Ethyl Acetate
Concen: 20.368 ug/l
RT: 7.25 min Scan# 877
Delta R.T. 0.00 min
Lab File: VW011954.D
Acq: 16 Aug 2019 10:34

Instrument :
MSVOA_W
ClientSampleID :
VW0817SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	12.1	8.8	13.2
70	8.5	7.1	10.7

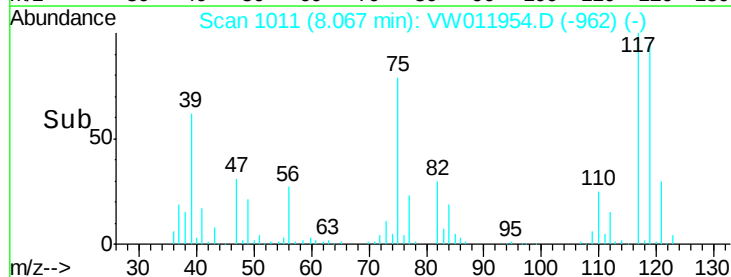
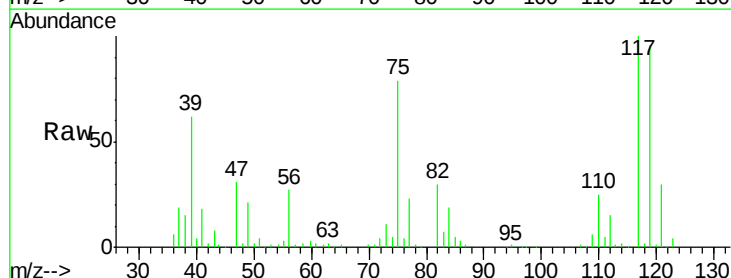
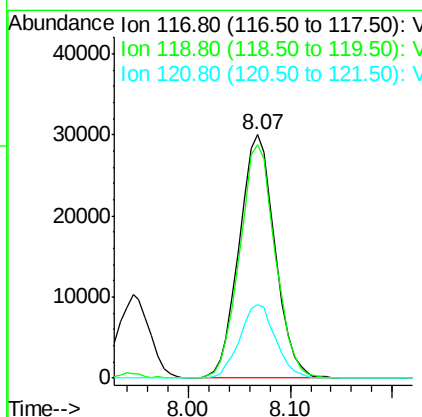
Manual Integrations
APPROVED

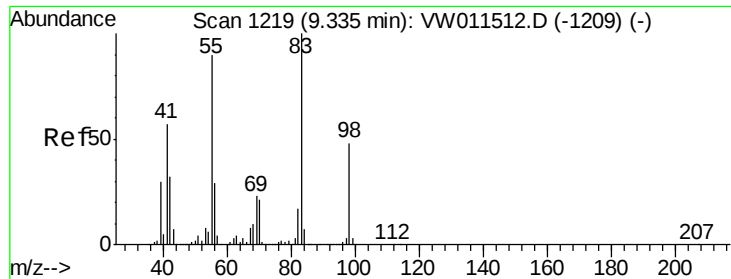
MMDadoda
8/19/2019 10:55:19 AM



#38
Carbon Tetrachloride
Concen: 22.571 ug/l
RT: 8.07 min Scan# 1011
Delta R.T. 0.00 min
Lab File: VW011954.D
Acq: 16 Aug 2019 10:34

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.0	75.8	113.6
121	30.2	24.7	37.1





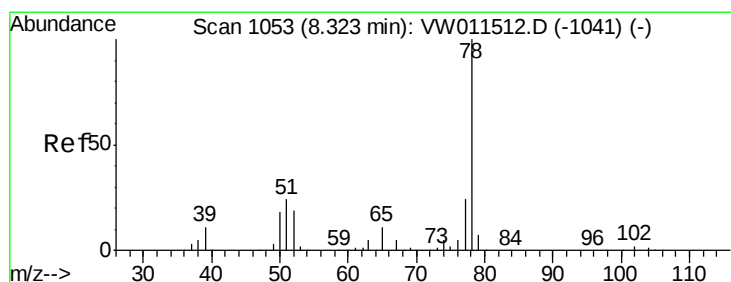
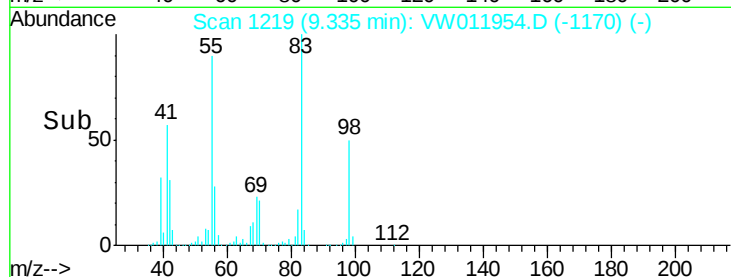
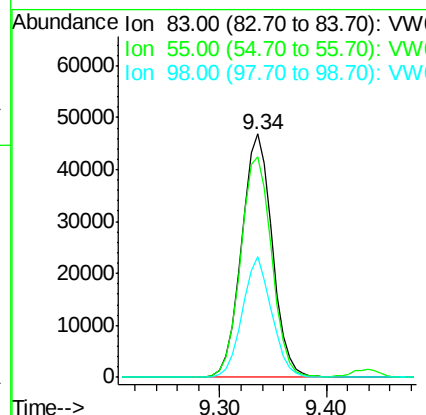
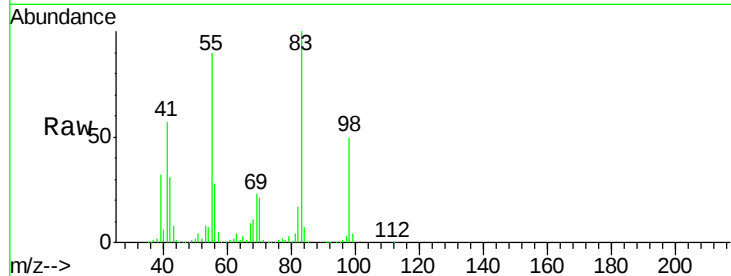
#39
Methvlcvclohexane
Concen: 22.835 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW011954.D
Acq: 16 Aug 2019 10:34

Instrument :
MSVOA_W
ClientSampleId :
VW0817SBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
55	90.5	72.1	108.1
98	49.8	38.6	57.8

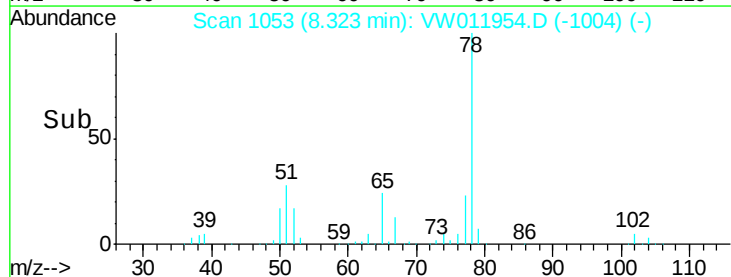
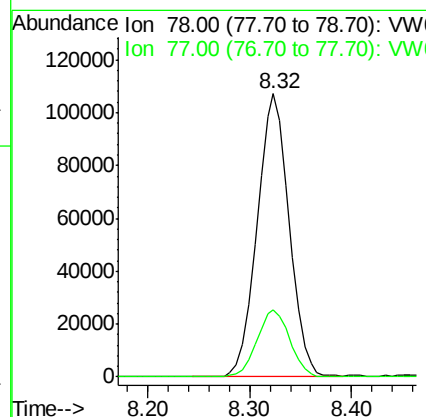
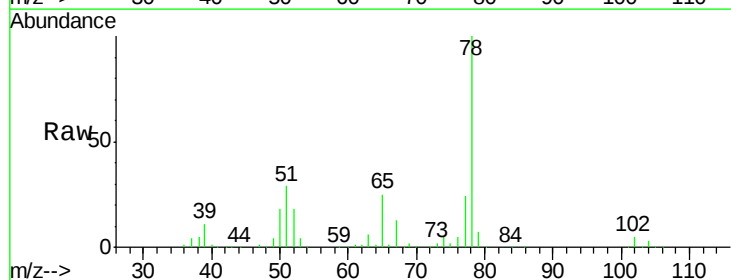
Manual Integrations
APPROVED

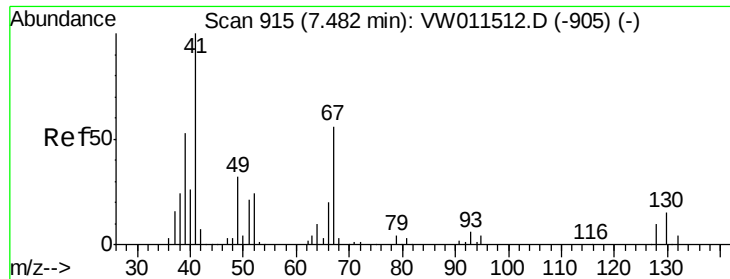
MMDadoda
8/19/2019 10:55:19 AM



#40
Benzene
Concen: 22.048 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. 0.00 min
Lab File: VW011954.D
Acq: 16 Aug 2019 10:34

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.4	29.0





#41

Methacrylonitrile

Concen: 20.692 ug/l

RT: 7.48 min Scan# 915

Delta R.T. 0.00 min

Lab File: VW011954.D

Acq: 16 Aug 2019 10:34

Instrument :

MSVOA_W

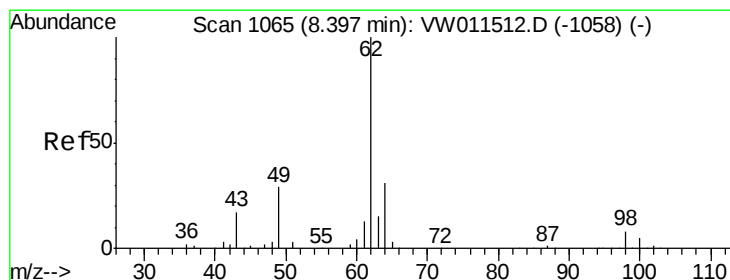
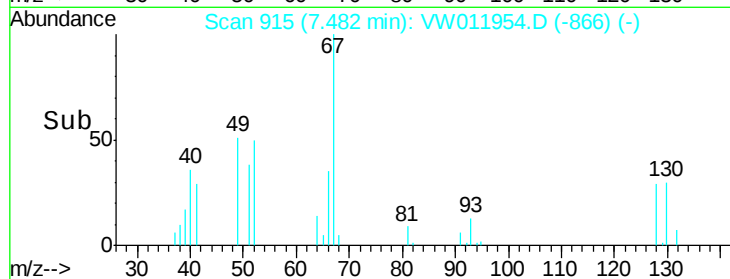
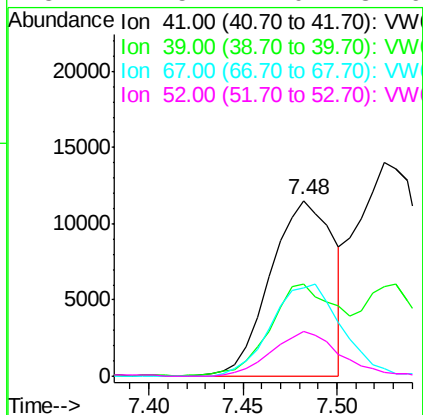
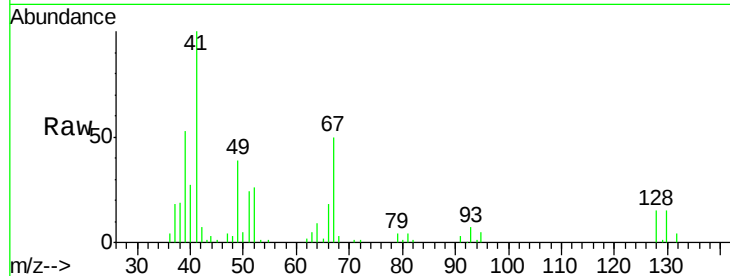
ClientSampleId :

VW0817SBS01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	57.2	43.0	64.4	
67	58.5	47.5	71.3	
52	27.5	21.0	31.6	

Manual Integrations
APPROVED

MMDadoda
8/19/2019 10:55:19 AM



#42

1,2-Dichloroethane

Concen: 21.536 ug/l

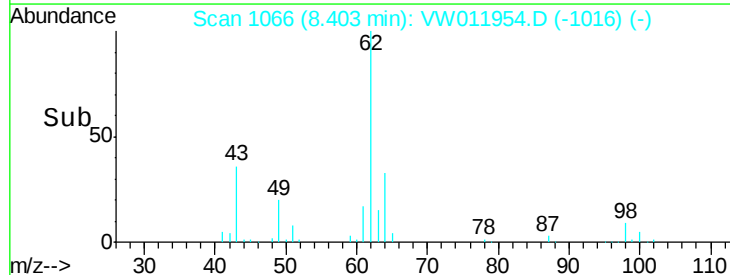
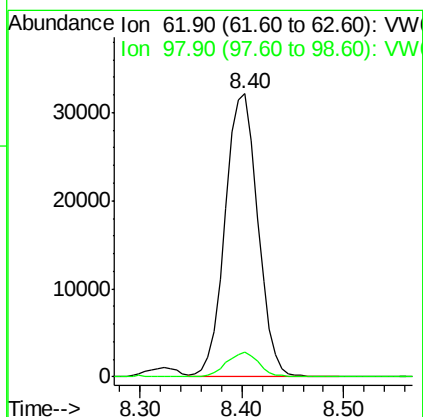
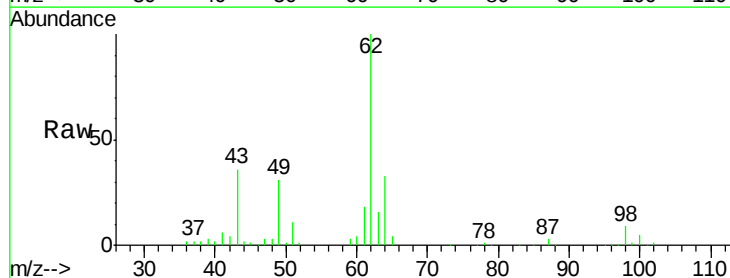
RT: 8.40 min Scan# 1066

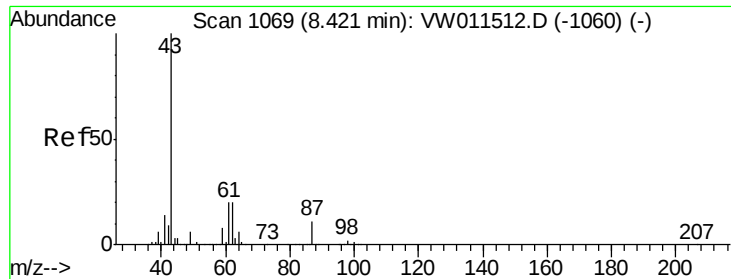
Delta R.T. 0.01 min

Lab File: VW011954.D

Acq: 16 Aug 2019 10:34

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	8.7	0.0	16.8	





#43

Isopropyl Acetate

Concen: 20.641 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VW011954.D

Acq: 16 Aug 2019 10:34

Instrument :

MSVOA_W

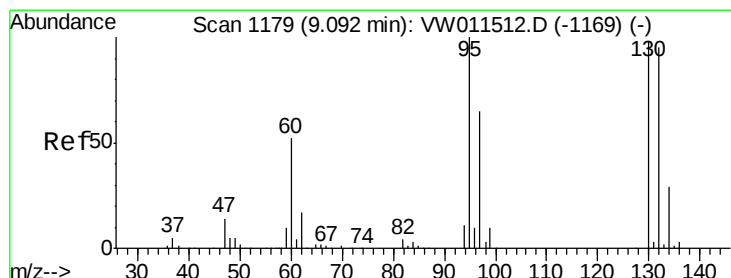
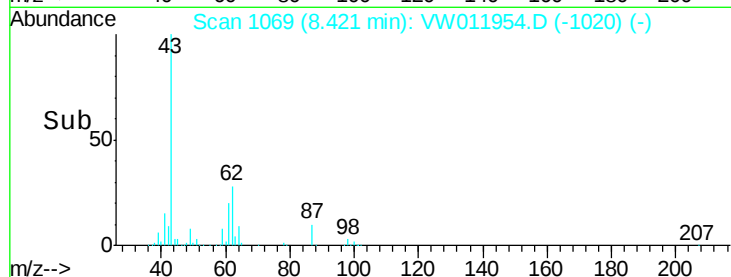
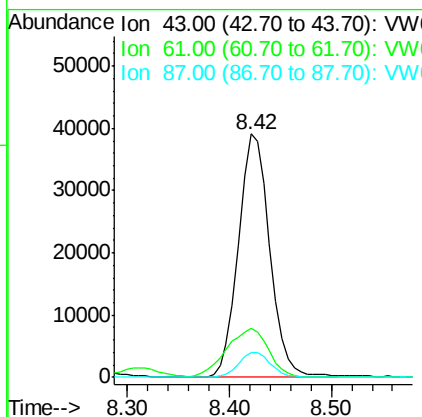
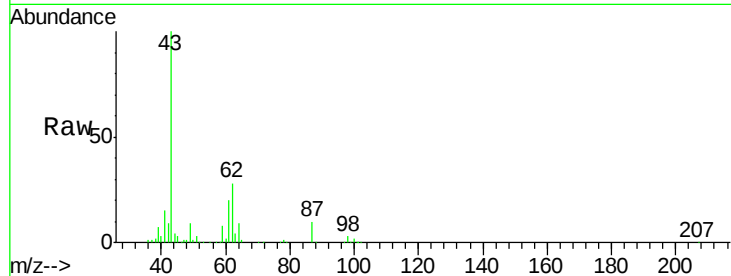
ClientSampleId :

VW0817SBS01

Tot Ion:	43	Resp:	82720
Ion	Ratio	Lower	Upper
43	100		
61	26.7	21.5	32.3
87	10.8	8.4	12.6

Manual Integrations
APPROVED

MMDadoda
8/19/2019 10:55:19 AM



#44

Trichloroethene

Concen: 22.253 ug/l

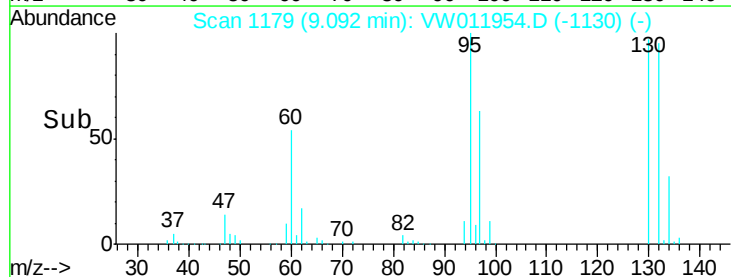
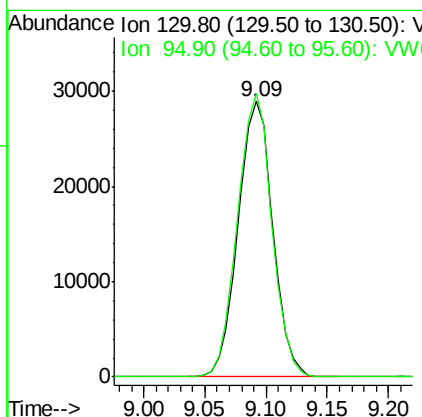
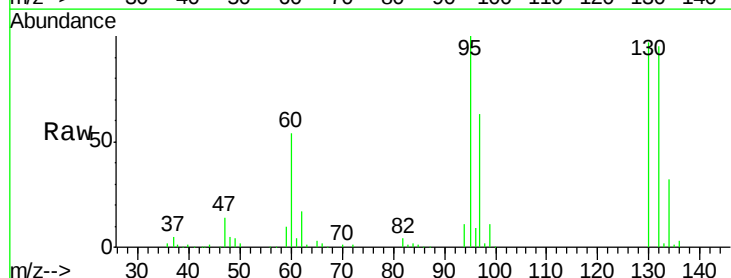
RT: 9.09 min Scan# 1179

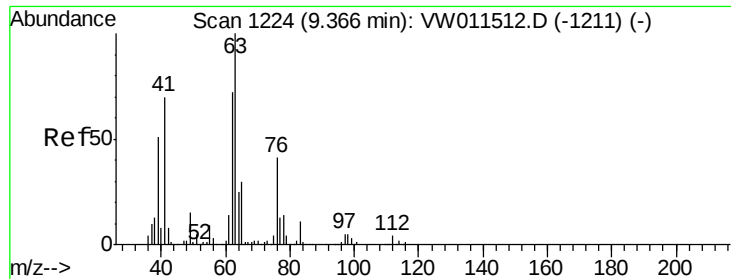
Delta R.T. 0.00 min

Lab File: VW011954.D

Acq: 16 Aug 2019 10:34

Tgt Ion:	130	Resp:	56744
Ion	Ratio	Lower	Upper
130	100		
95	102.9	0.0	204.8





#45

1,2-Dichloropropane

Concen: 21.904 ug/l

RT: 9.37 min Scan# 1225

Delta R.T. 0.01 min

Lab File: VW011954.D

Acq: 16 Aug 2019 10:34

Instrument :

MSVOA_W

ClientSampled :

VW0817SBS01

Tot Ion: 63 Resp: 62178

Ion Ratio Lower Upper

63 100

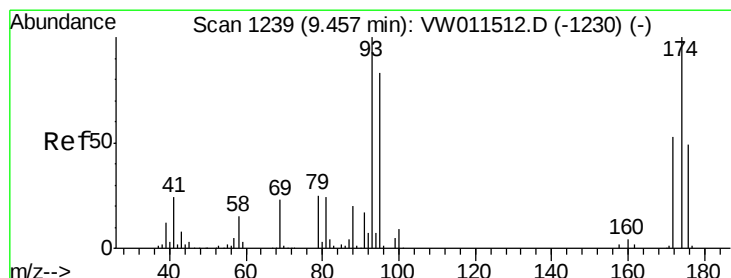
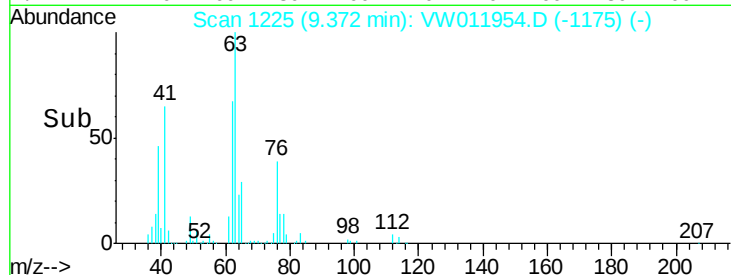
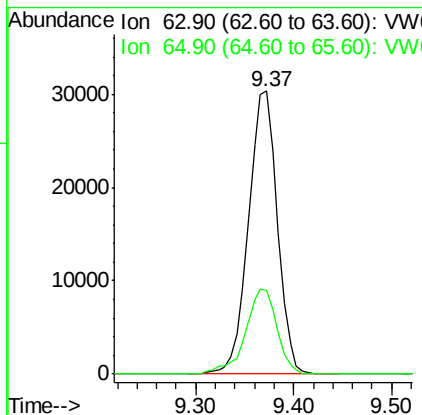
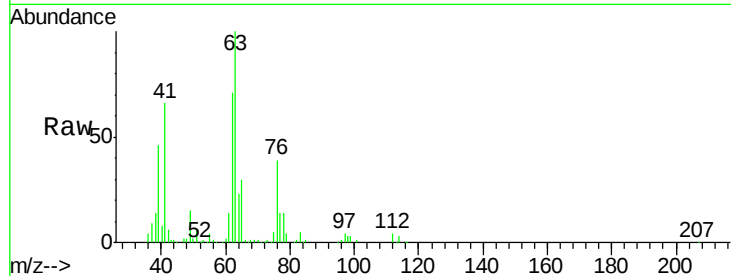
65 29.6 24.2 36.4

Manual Integrations

APPROVED

MMDadoda

8/19/2019 10:55:19 AM



#46

Dibromomethane

Concen: 21.541 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. 0.00 min

Lab File: VW011954.D

Acq: 16 Aug 2019 10:34

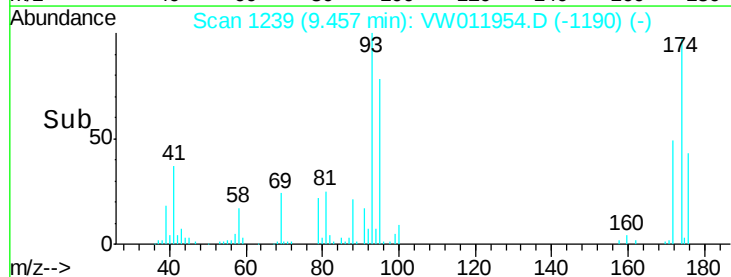
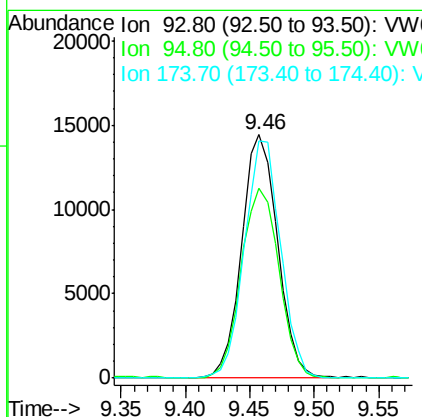
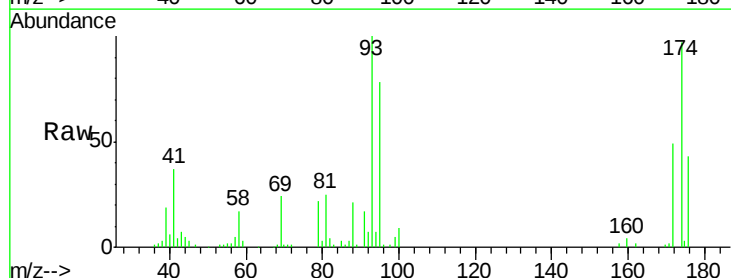
Tgt Ion: 93 Resp: 27909

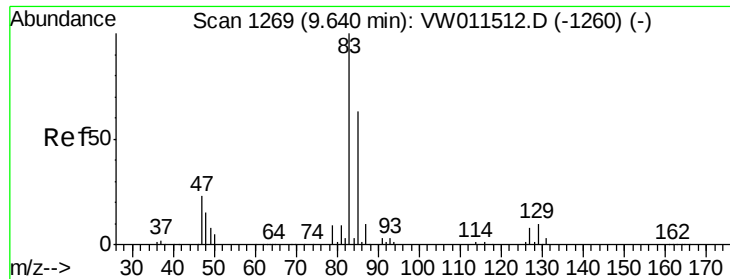
Ion Ratio Lower Upper

93 100

95 82.1 66.2 99.2

174 97.9 78.2 117.4





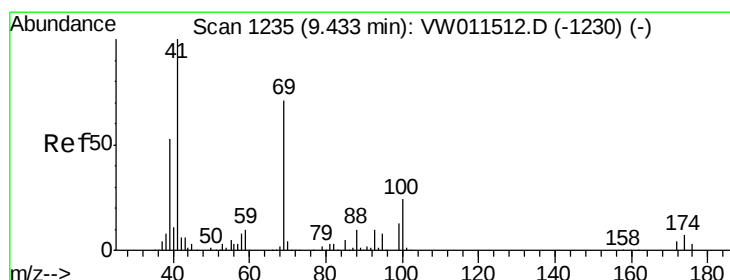
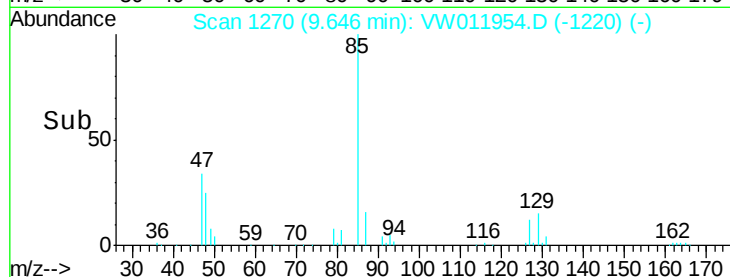
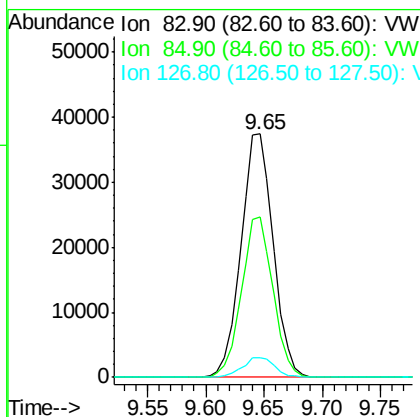
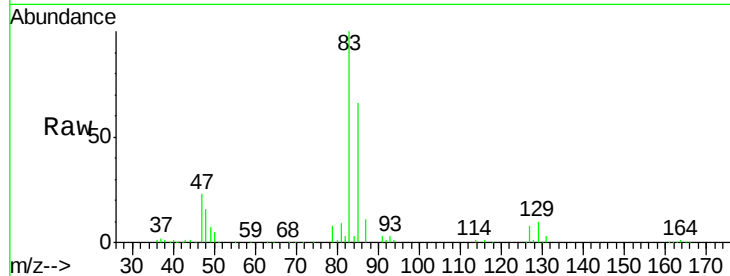
#47
Bromodichloromethane
Concen: 21.245 ug/l
RT: 9.65 min Scan# 1270
Delta R.T. 0.01 min
Lab File: VW011954.D
Acq: 16 Aug 2019 10:34

Instrument :
MSVOA_W
ClientSampleId :
VW0817SBS01

Tot Ion	83	Resp	72203
Ion Ratio	100	Lower	Upper
85	65.9	50.5	75.7
127	7.9	6.4	9.6

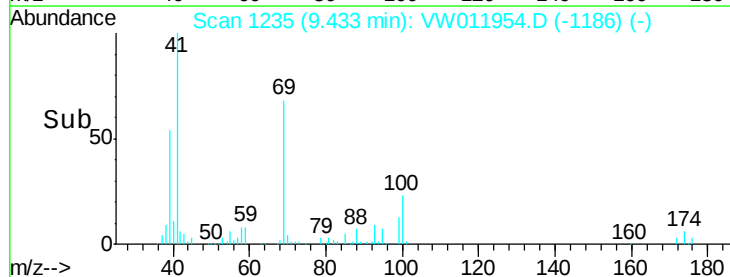
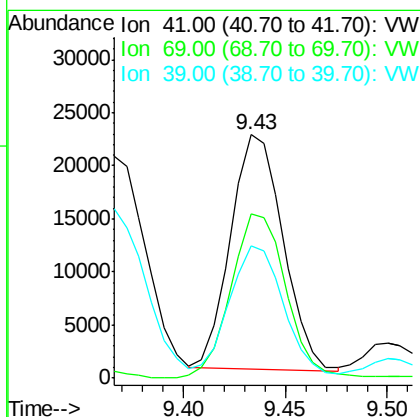
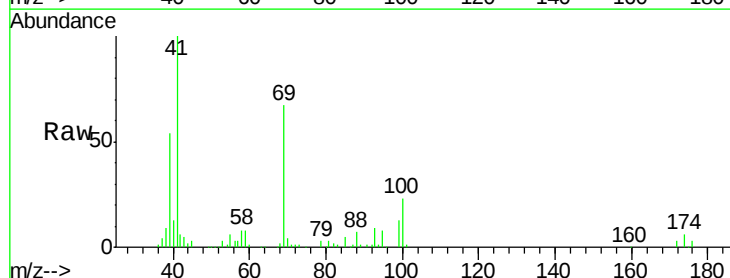
Manual Integrations
APPROVED

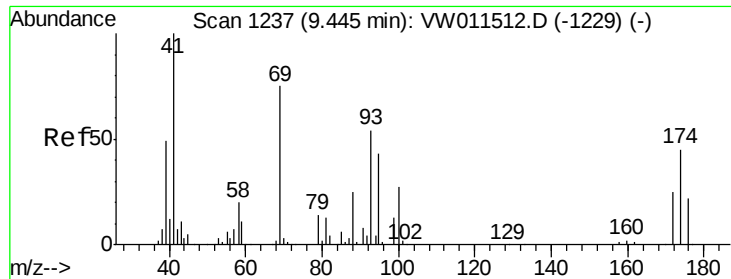
MMDadoda
8/19/2019 10:55:19 AM



#48
Methyl methacrylate
Concen: 20.538 ug/l
RT: 9.43 min Scan# 1235
Delta R.T. 0.00 min
Lab File: VW011954.D
Acq: 16 Aug 2019 10:34

Tgt Ion	41	Resp	39536
Ion Ratio	100	Lower	Upper
69	74.5	57.1	85.7
39	59.1	45.4	68.2





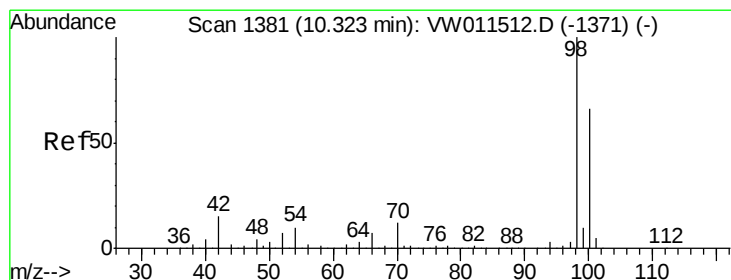
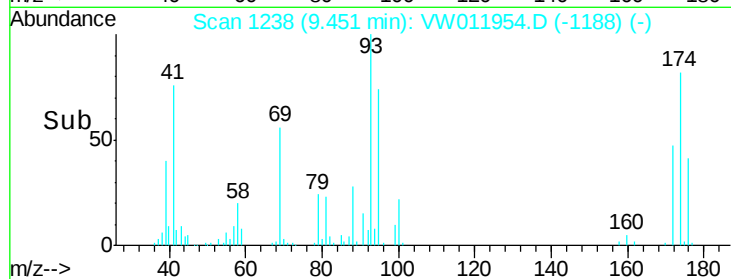
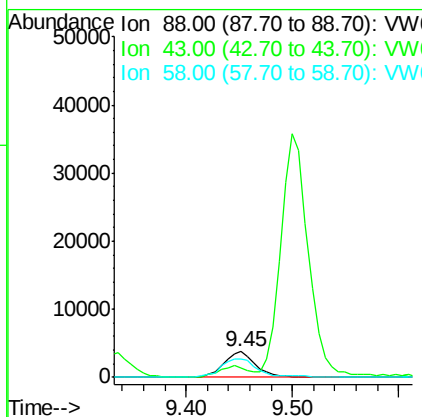
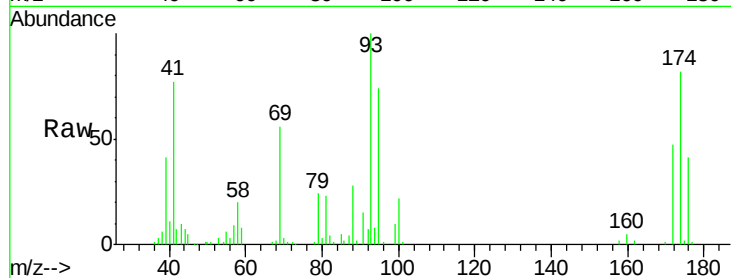
#49
1,4-Dioxane
Concen: 420.102 ug/l
RT: 9.45 min Scan# 1238
Delta R.T. 0.01 min
Lab File: VW011954.D
Acq: 16 Aug 2019 10:34

Instrument :
MSVOA_W
ClientSampleId :
VW0817SBSD01

Tot Ion	88	Resp	7881
Ion Ratio	100	Lower	Upper
88	100		
43	40.5	34.0	51.0
58	77.6	69.7	104.5

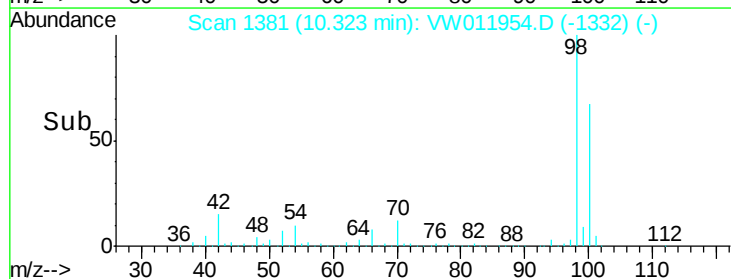
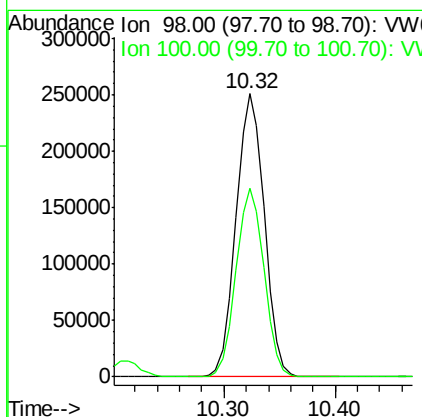
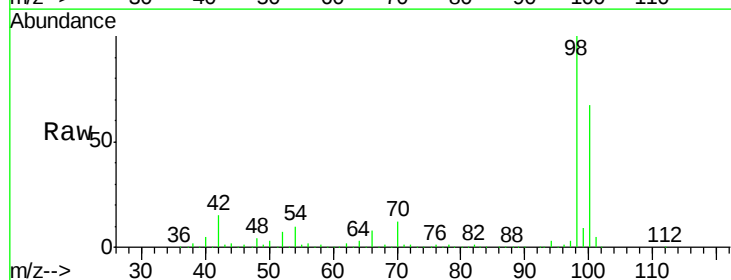
Manual Integrations
APPROVED

MMDadoda
8/19/2019 10:55:19 AM



#50
Toluene-d8
Concen: 52.752 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW011954.D
Acq: 16 Aug 2019 10:34

Tgt Ion	98	Resp	441367
Ion Ratio	100	Lower	Upper
98	100		
100	65.8	52.7	79.1





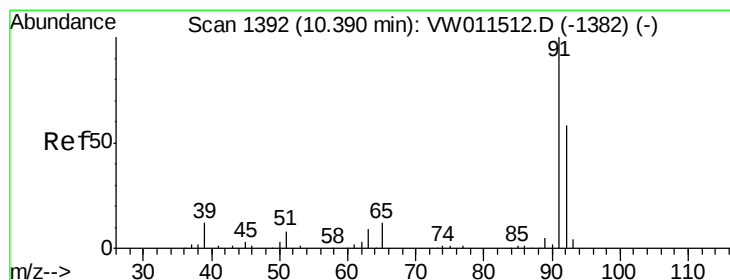
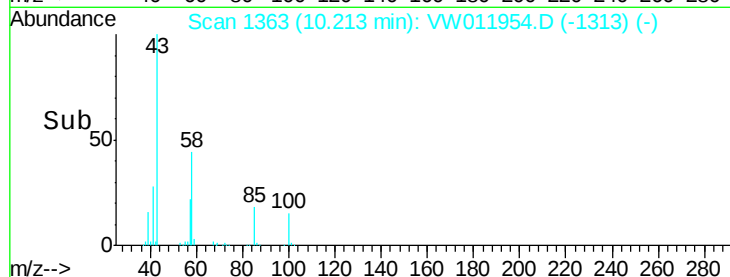
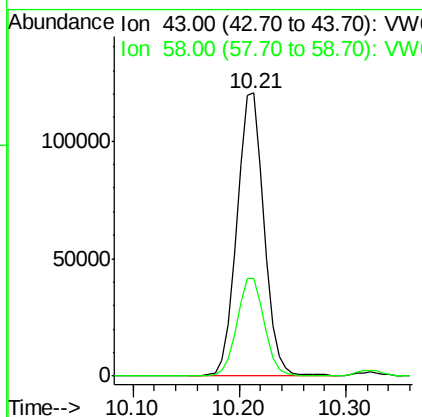
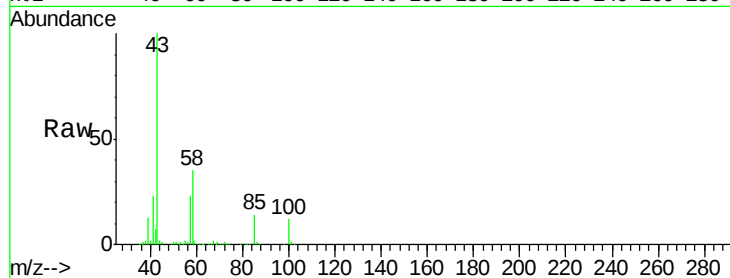
#51
4-Methyl-2-Pentanone
Concen: 103.346 ug/l
RT: 10.21 min Scan# 1363
Delta R.T. 0.01 min
Lab File: VW011954.D
Acq: 16 Aug 2019 10:34

Instrument :
MSVOA_W
ClientSampleId :
VW0817SBSD01

Tot Ion	43	Resp	215424
Ion Ratio	100	Lower	Upper
43	100		
58	34.9	28.2	42.2

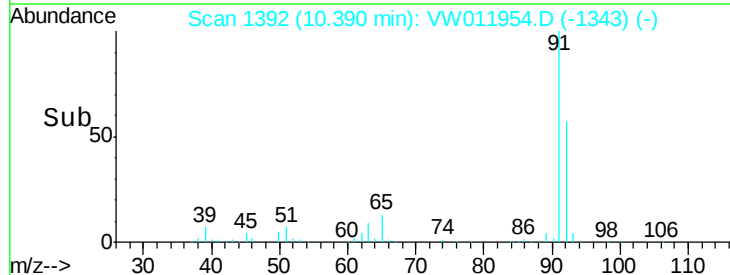
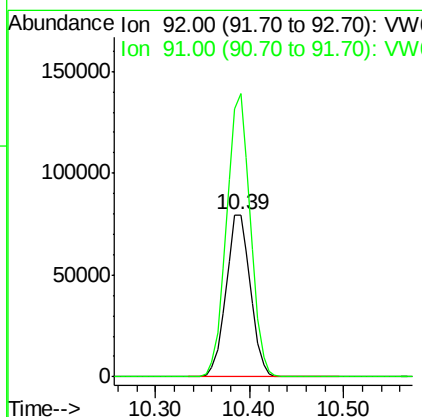
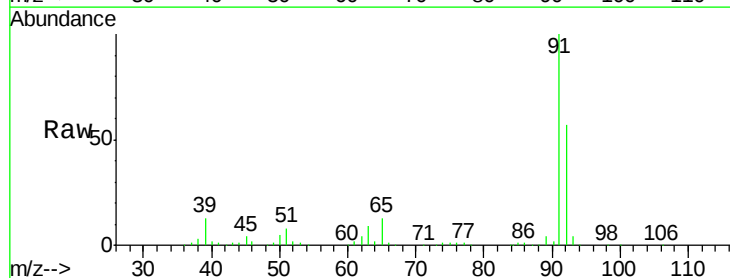
Manual Integrations
APPROVED

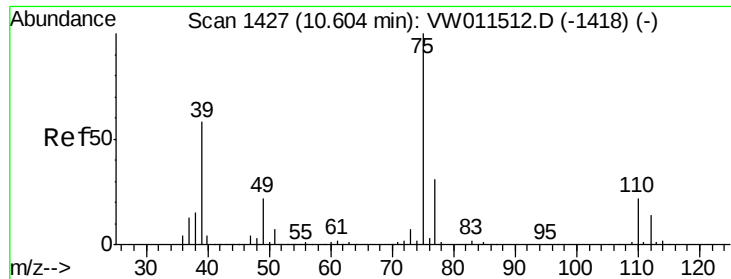
MMDadoda
8/19/2019 10:55:19 AM



#52
Toluene
Concen: 22.196 ug/l
RT: 10.39 min Scan# 1392
Delta R.T. 0.00 min
Lab File: VW011954.D
Acq: 16 Aug 2019 10:34

Tgt Ion	92	Resp	142204
Ion Ratio	100	Lower	Upper
92	100		
91	170.7	136.7	205.1





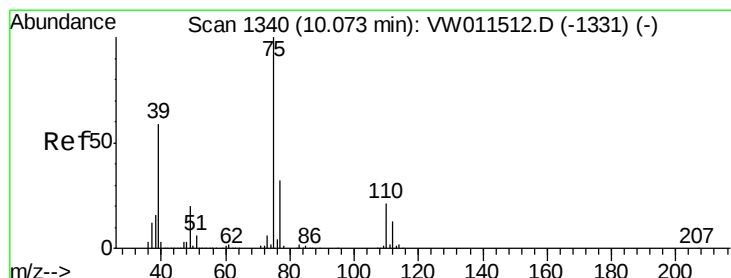
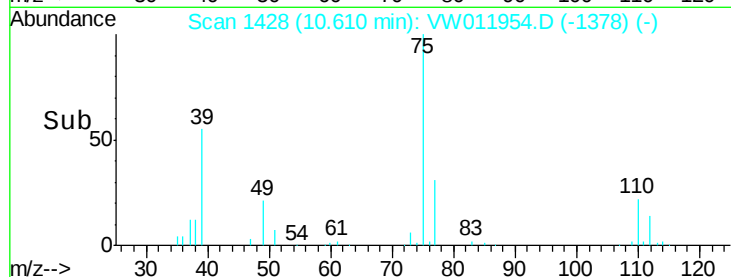
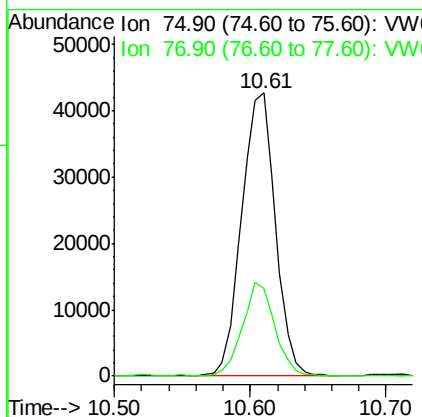
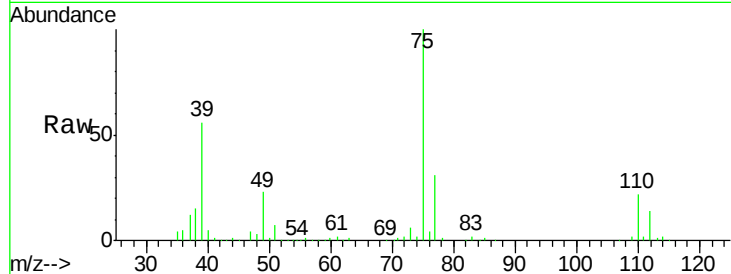
#53
t-1,3-Dichloropropene
Concen: 20.887 ug/l
RT: 10.61 min Scan# 1428
Delta R.T. 0.01 min
Lab File: VW011954.D
Acq: 16 Aug 2019 10:34

Instrument :
MSVOA_W
ClientSampleId :
VW0817SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
77	30.7	25.0	37.4

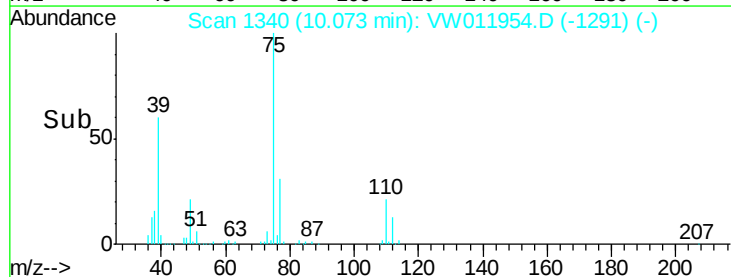
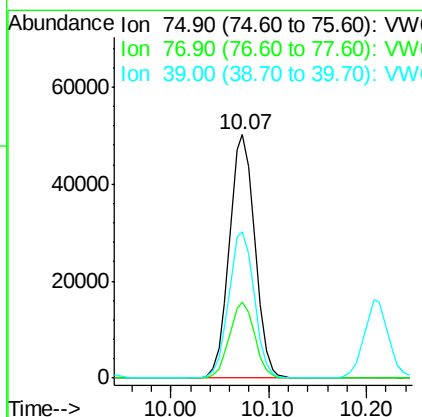
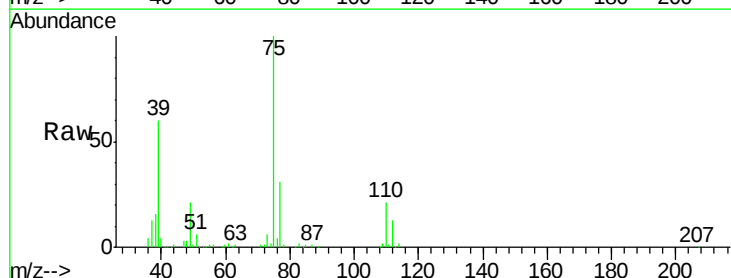
Manual Integrations
APPROVED

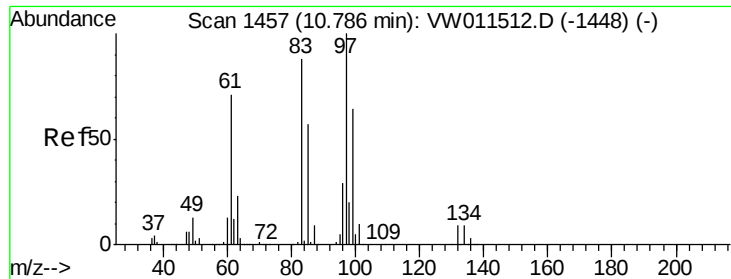
MMDadoda
8/19/2019 10:55:19 AM



#54
cis-1,3-Dichloropropene
Concen: 21.512 ug/l
RT: 10.07 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VW011954.D
Acq: 16 Aug 2019 10:34

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.6	38.4
39	60.2	47.0	70.4





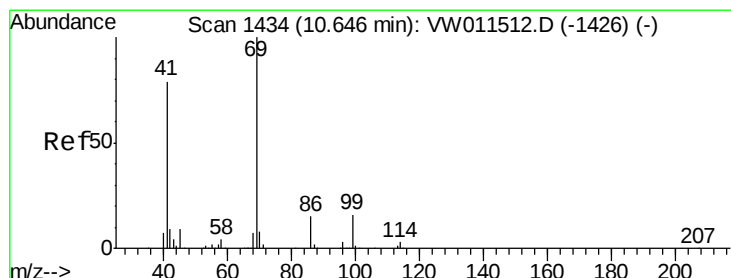
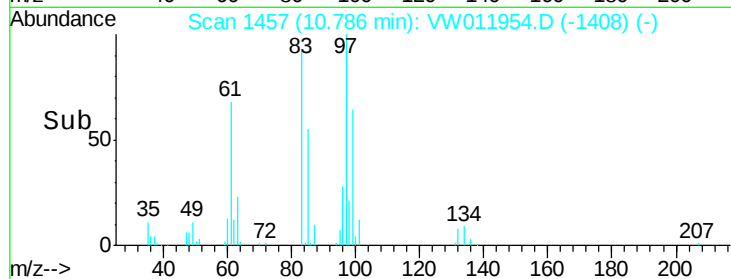
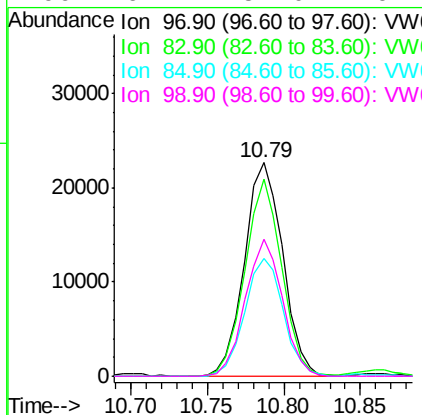
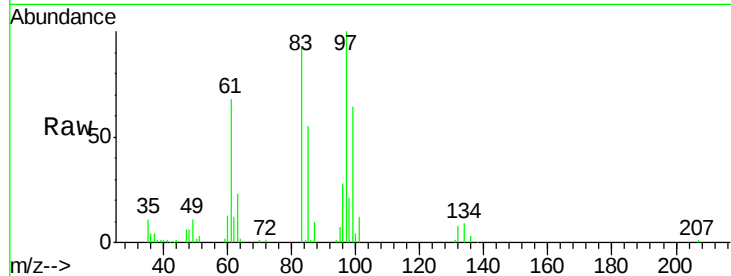
#55
 1,1,2-Trichloroethane
 Concen: 21.551 ug/l
 RT: 10.79 min Scan# 1457
 Delta R.T. 0.00 min
 Lab File: VW011954.D
 Acq: 16 Aug 2019 10:34

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0817SBSD01

Tot Ion:	97	Resp:	39617
Ion	Ratio	Lower	Upper
97	100		
83	92.1	70.5	105.7
85	55.1	45.8	68.6
99	64.4	51.0	76.4

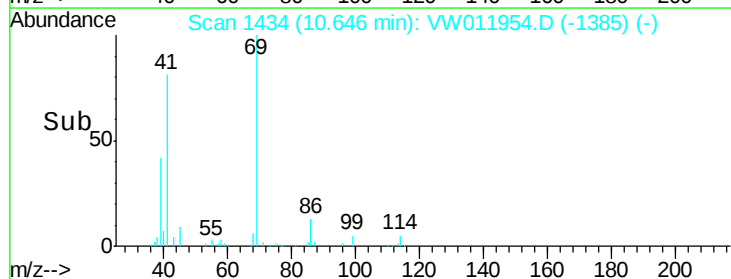
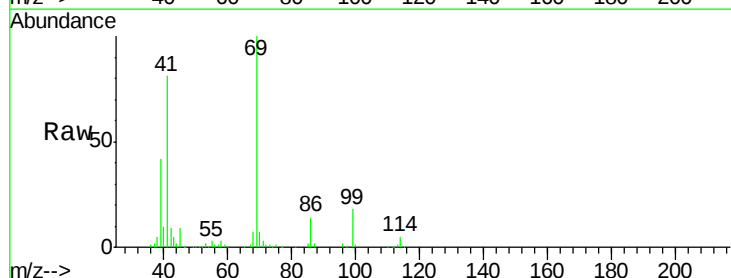
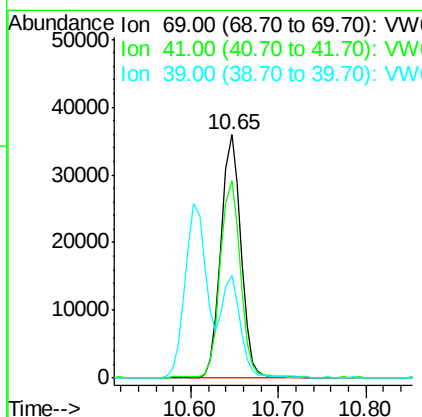
Manual Integrations
 APPROVED

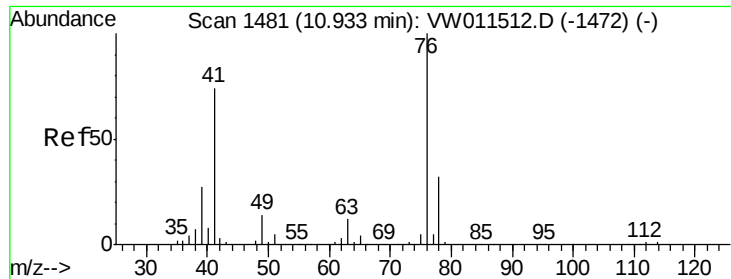
MMDadoda
 8/19/2019 10:55:19 AM



#56
 Ethyl methacrylate
 Concen: 21.321 ug/l
 RT: 10.65 min Scan# 1434
 Delta R.T. 0.00 min
 Lab File: VW011954.D
 Acq: 16 Aug 2019 10:34

Tgt Ion:	69	Resp:	57354
Ion	Ratio	Lower	Upper
69	100		
41	82.9	66.6	99.8
39	38.3	30.3	45.5





#57

1,3-Dichloropropane

Concen: 21.317 ug/l

RT: 10.93 min Scan# 1481

Delta R.T. 0.00 min

Lab File: VW011954.D

Acq: 16 Aug 2019 10:34

Instrument :

MSVOA_W

ClientSampleId :

VW0817SBS01

Tot Ion: 76 Resp: 74138

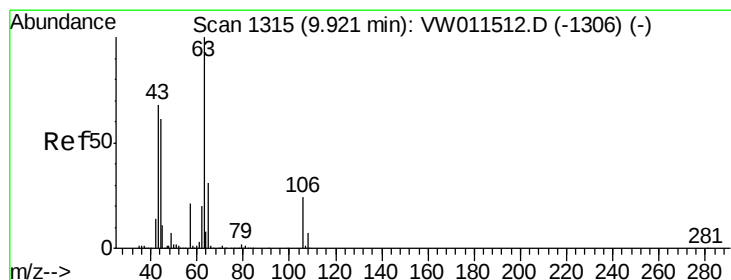
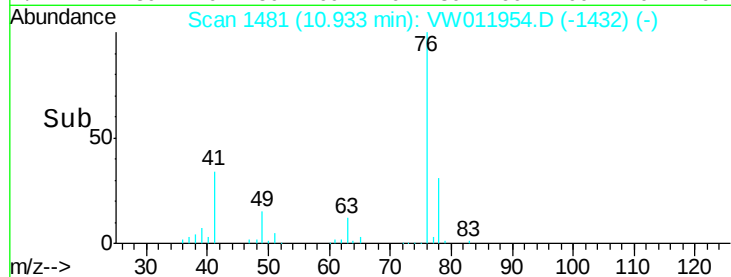
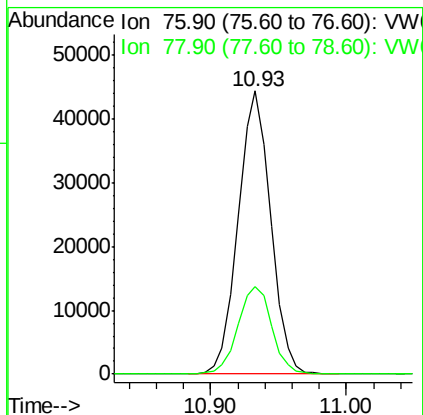
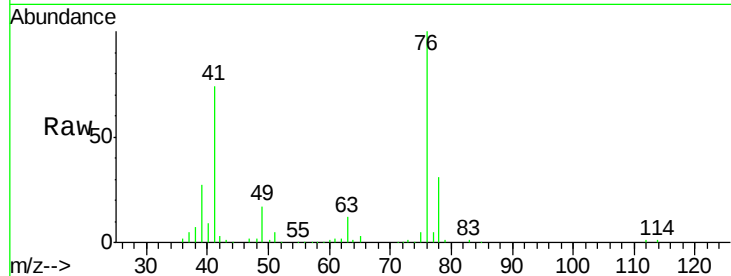
Ion Ratio Lower Upper

76 100

78 32.0 25.2 37.8

Manual Integrations
APPROVED

MMDadoda
8/19/2019 10:55:19 AM



#58

2-Chloroethyl Vinyl ether

Concen: 125.668 ug/l

RT: 9.92 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VW011954.D

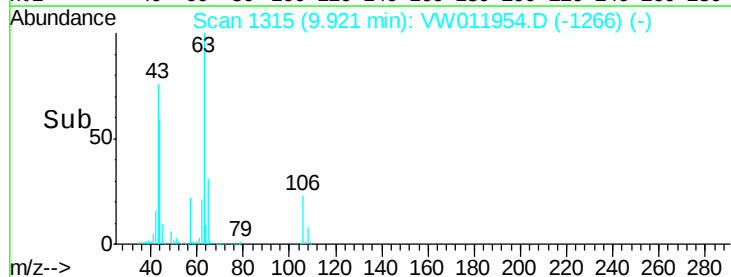
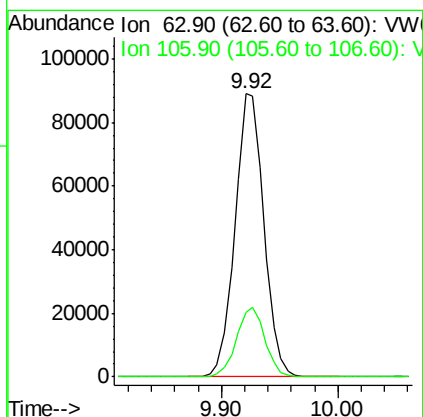
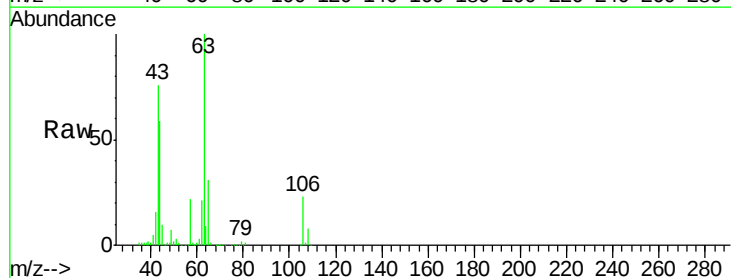
Acq: 16 Aug 2019 10:34

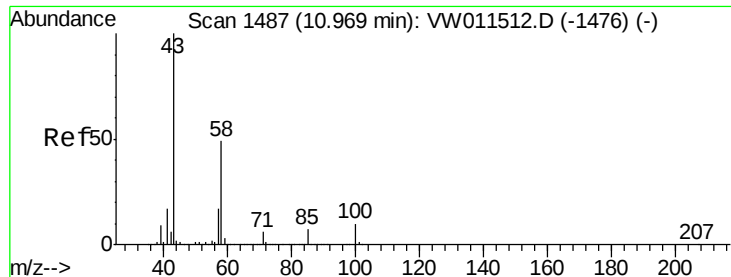
Tgt Ion: 63 Resp: 153487

Ion Ratio Lower Upper

63 100

106 24.2 19.7 29.5





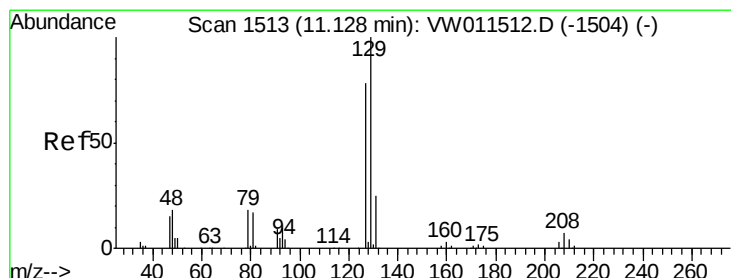
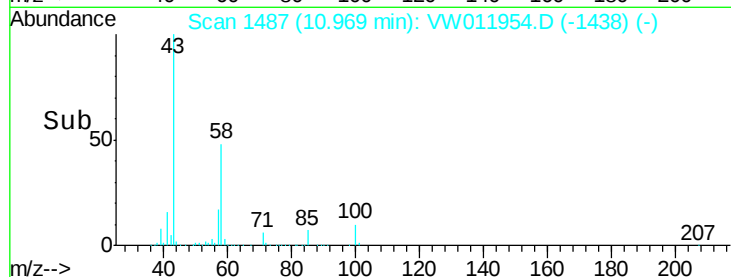
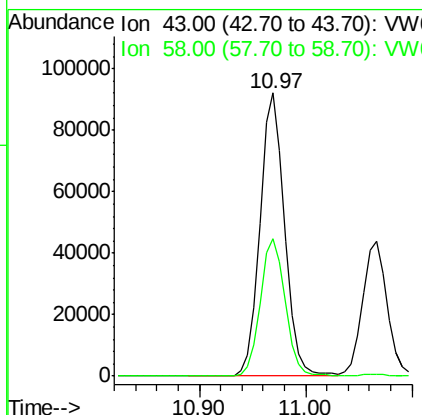
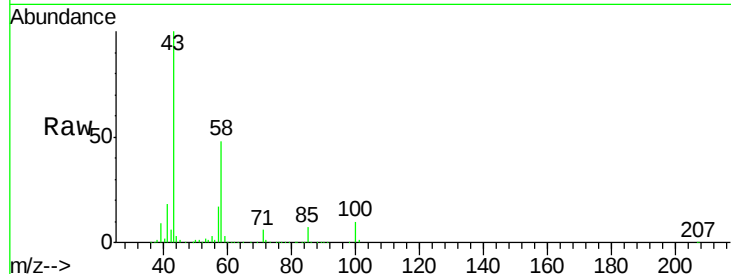
#59
2-Hexanone
Concen: 101.162 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW011954.D
Acq: 16 Aug 2019 10:34

Instrument :
MSVOA_W
ClientSampleId :
VW0817SBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
58	49.3	24.3	72.9

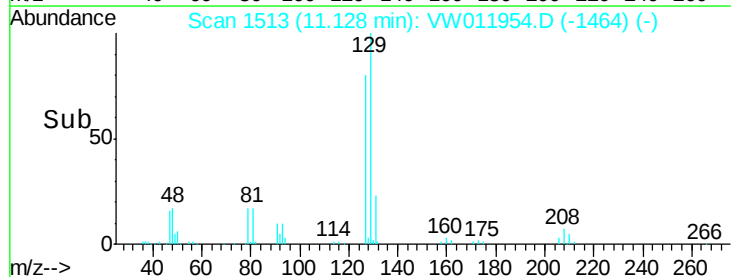
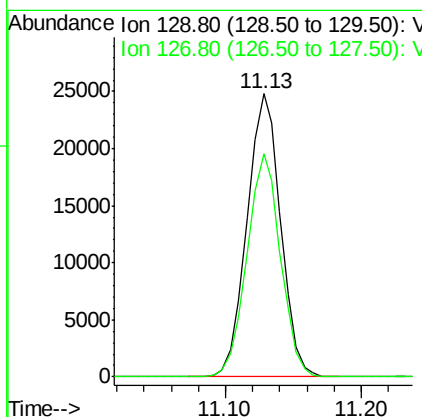
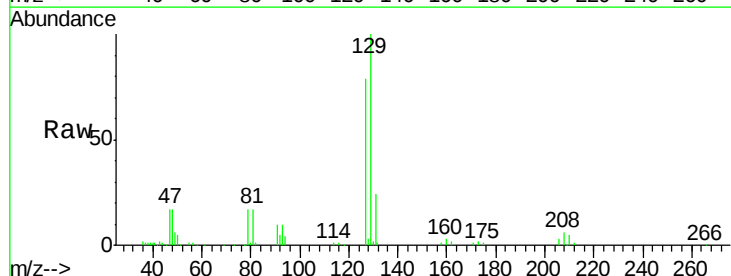
Manual Integrations
APPROVED

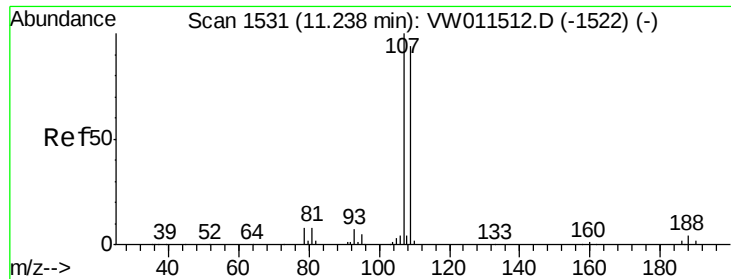
MMDadoda
8/19/2019 10:55:19 AM



#60
Dibromochloromethane
Concen: 21.047 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW011954.D
Acq: 16 Aug 2019 10:34

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.6	38.9	116.7





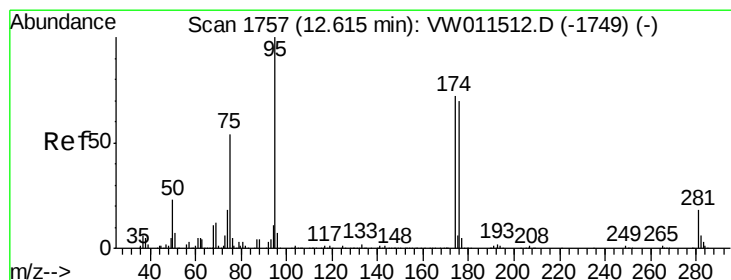
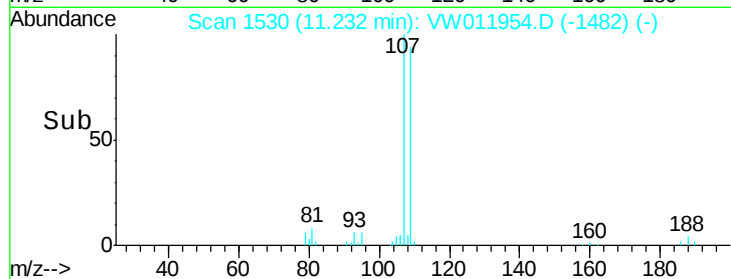
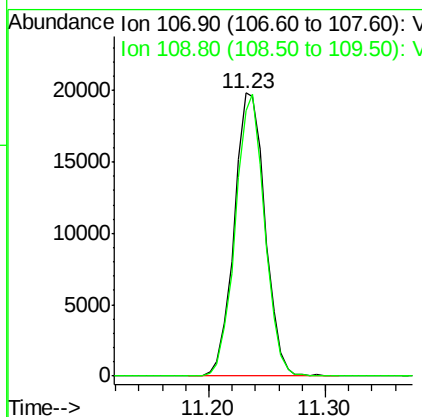
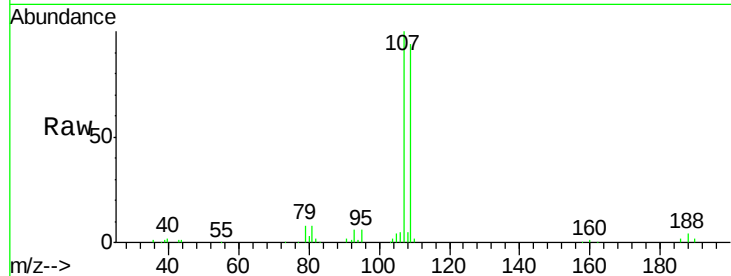
#61
 1,2-Dibromoethane
 Concen: 20.991 ug/l
 RT: 11.23 min Scan# 1530
 Delta R.T. -0.01 min
 Lab File: VW011954.D
 Acq: 16 Aug 2019 10:34

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0817SBSD01

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.2	75.0	112.6

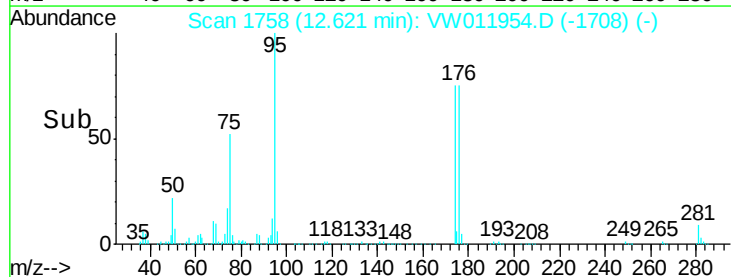
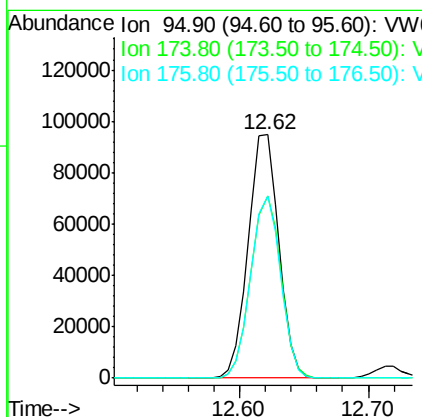
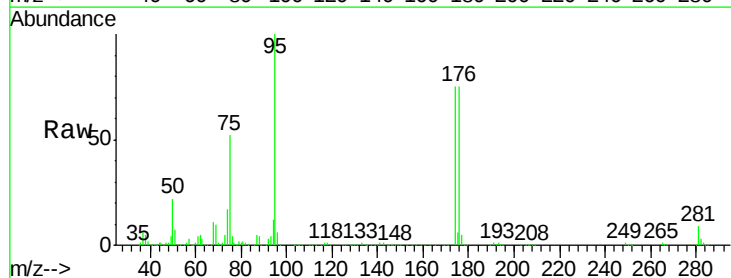
Manual Integrations
 APPROVED

MMDadoda
 8/19/2019 10:55:19 AM



#62
 4-Bromofluorobenzene
 Concen: 52.104 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.01 min
 Lab File: VW011954.D
 Acq: 16 Aug 2019 10:34

Tgt Ion	Ratio	Lower	Upper
95	100		
174	74.2	0.0	150.2
176	73.1	0.0	144.4





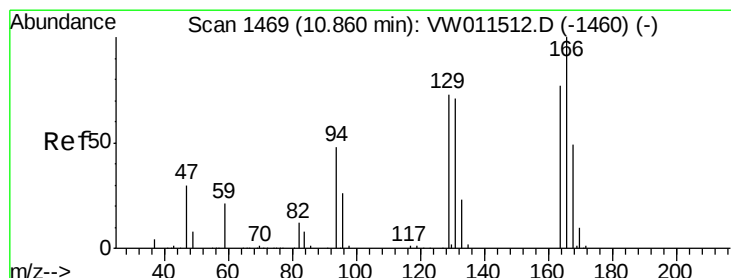
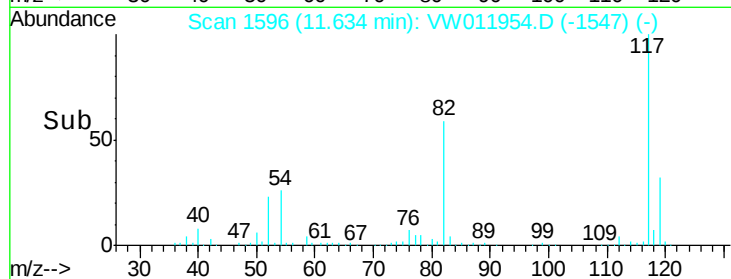
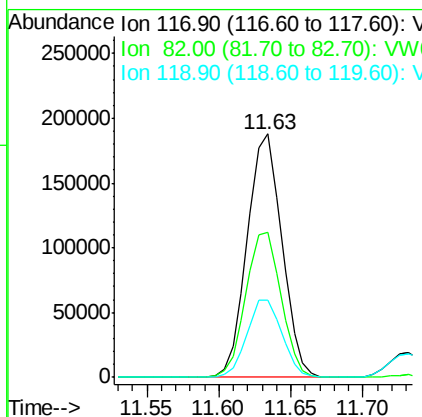
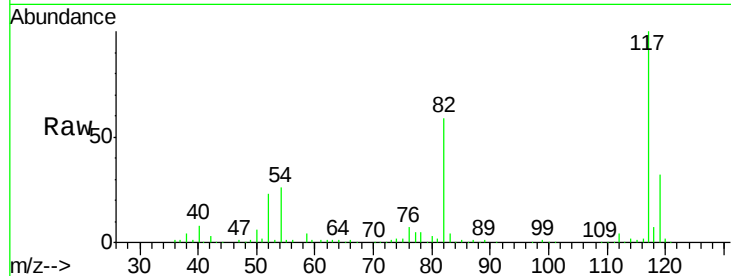
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW011954.D
Acq: 16 Aug 2019 10:34

Instrument :
MSVOA_W
ClientSampleId :
VW0817SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	313666		
82	59.5	47.9	71.9	
119	31.6	26.2	39.2	

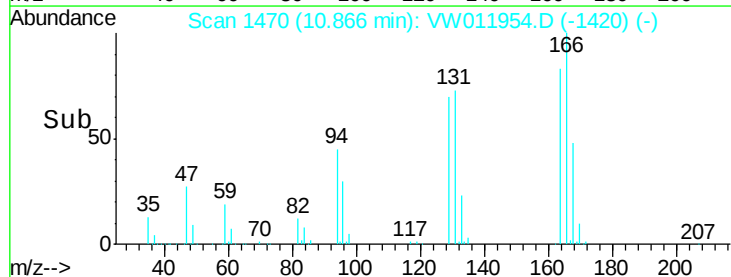
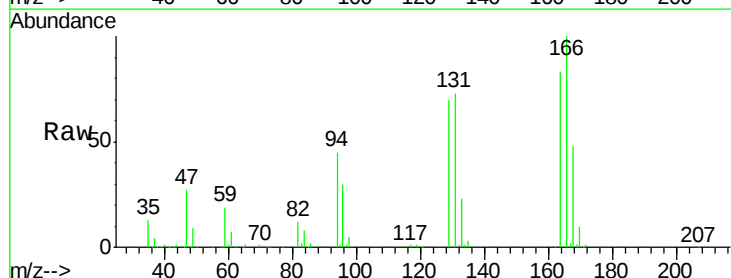
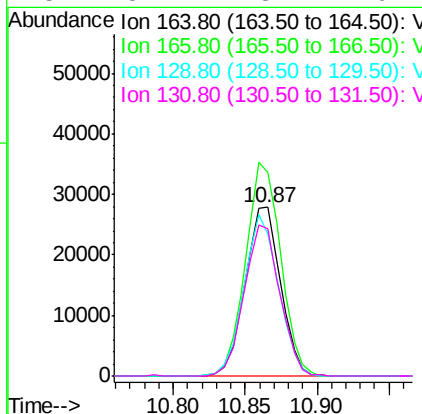
Manual Integrations
APPROVED

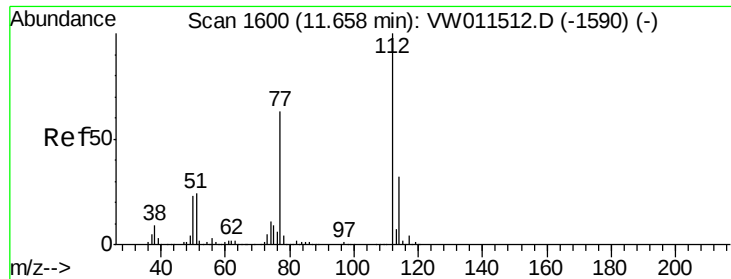
MMDadoda
8/19/2019 10:55:19 AM



#64
Tetrachloroethene
Concen: 23.162 ug/l
RT: 10.87 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VW011954.D
Acq: 16 Aug 2019 10:34

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	47303		
166	120.6	103.5	155.3	
129	84.6	75.2	112.8	
131	87.7	73.4	110.2	





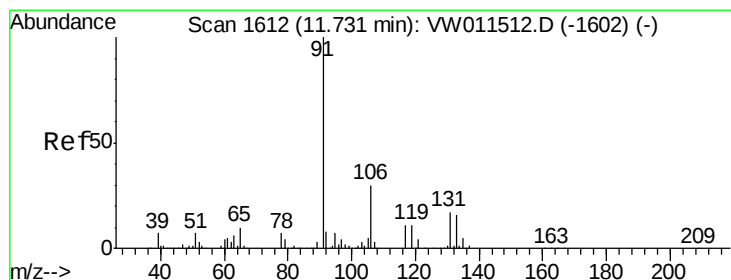
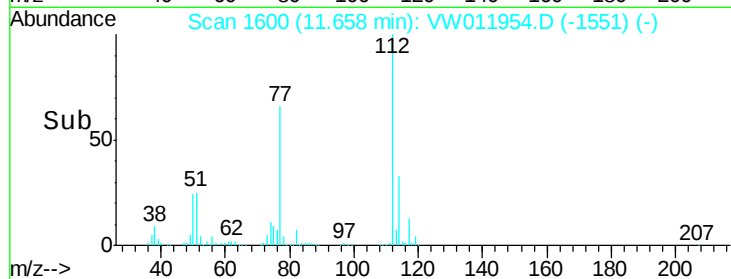
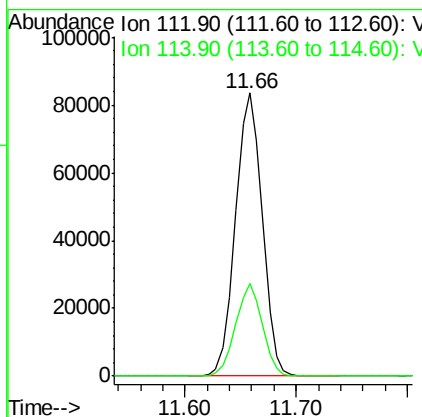
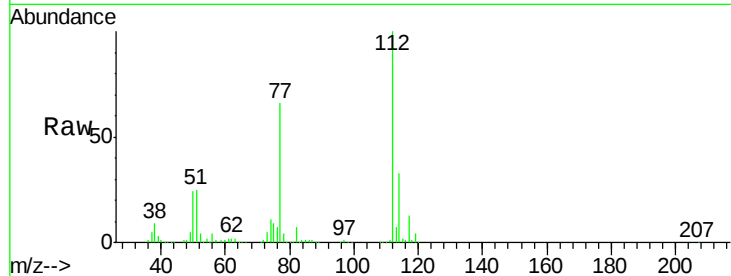
#65
Chlorobenzene
Concen: 22.038 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW011954.D
Acq: 16 Aug 2019 10:34

Instrument :
MSVOA_W
ClientSampleId :
VW0817SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
112	100	138978		
114	32.6	25.6	38.4	

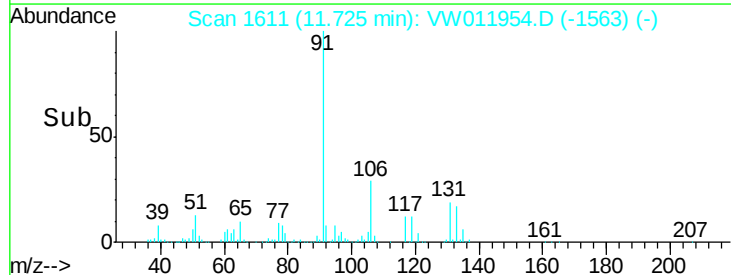
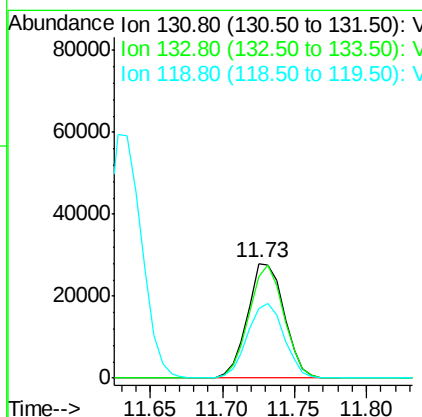
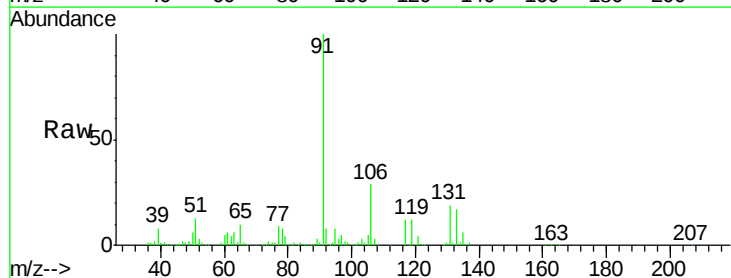
Manual Integrations
APPROVED

MMDadoda
8/19/2019 10:55:19 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 22.447 ug/l
RT: 11.73 min Scan# 1611
Delta R.T. -0.01 min
Lab File: VW011954.D
Acq: 16 Aug 2019 10:34

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	49307		
133	94.0	47.4	142.2	
119	65.0	32.3	96.9	





#67

Ethyl Benzene

Concen: 22.626 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW011954.D

Acq: 16 Aug 2019 10:34

Instrument :

MSVOA_W

ClientSampleId :

VW0817SBS01

Tot Ion: 91 Resp: 271749

Ion Ratio Lower Upper

91 100

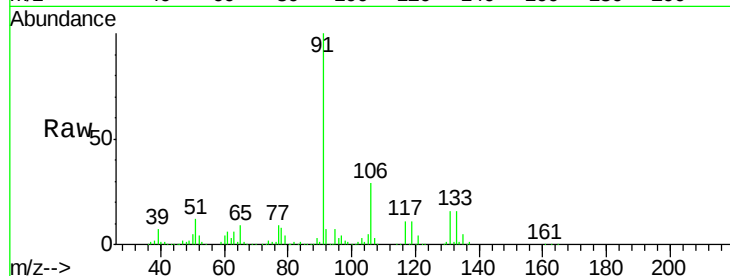
106 29.1 23.8 35.6

Manual Integrations

APPROVED

MMDadoda

8/19/2019 10:55:19 AM



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V

250000

200000

150000

100000

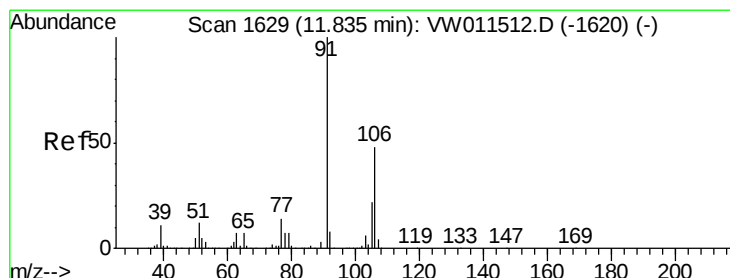
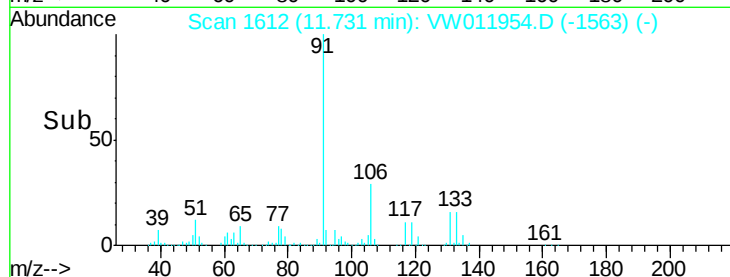
50000

0

11.65 11.70 11.75 11.80

11.73

Time-->



#68

m/p-Xylenes

Concen: 45.420 ug/l

RT: 11.84 min Scan# 1630

Delta R.T. 0.01 min

Lab File: VW011954.D

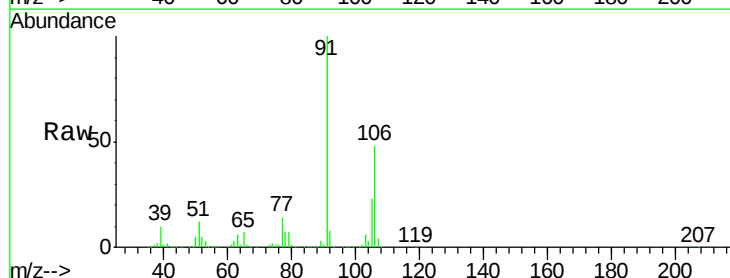
Acq: 16 Aug 2019 10:34

Tgt Ion:106 Resp: 198384

Ion Ratio Lower Upper

106 100

91 209.1 168.2 252.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

250000

200000

150000

100000

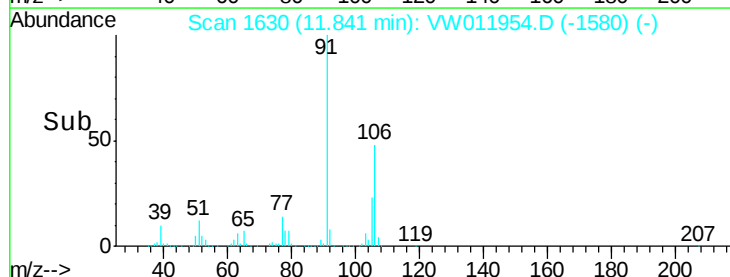
50000

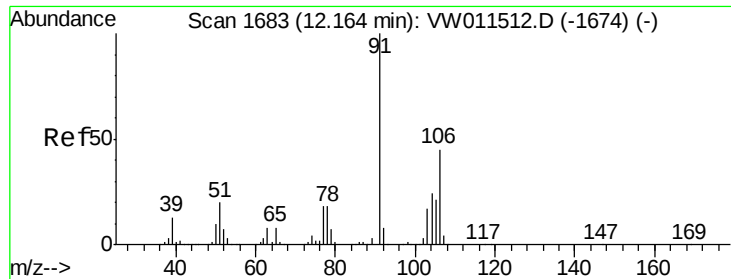
0

11.80 11.84 11.88

11.84

Time-->





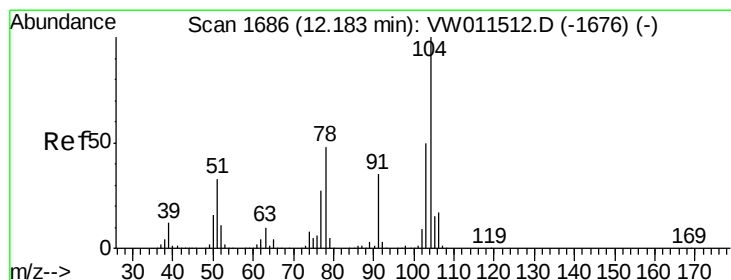
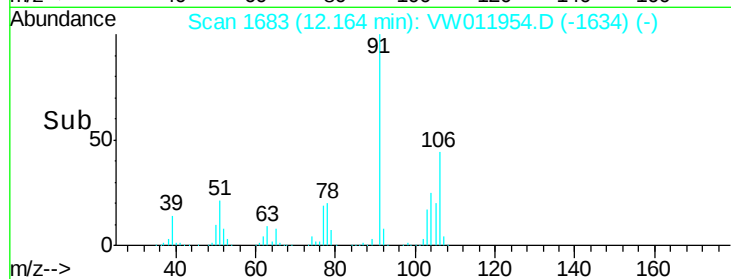
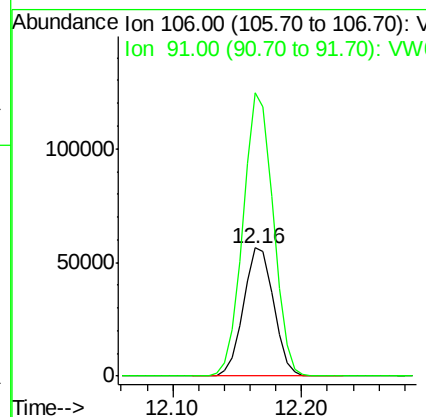
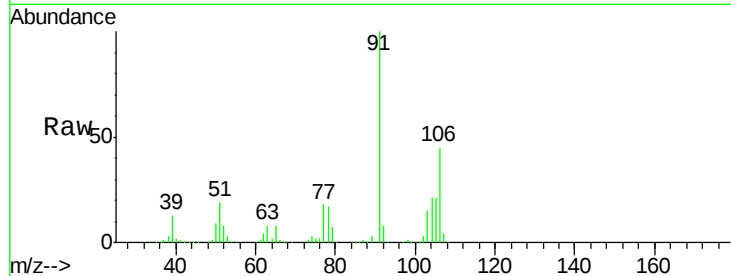
#69
o-Xylene
Concen: 22.594 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW011954.D
Acq: 16 Aug 2019 10:34

Instrument :
MSVOA_W
ClientSampleID :
VW0817SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	91706		
91	219.7	110.5	331.5		

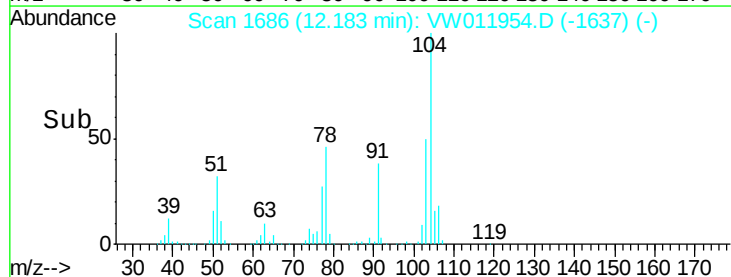
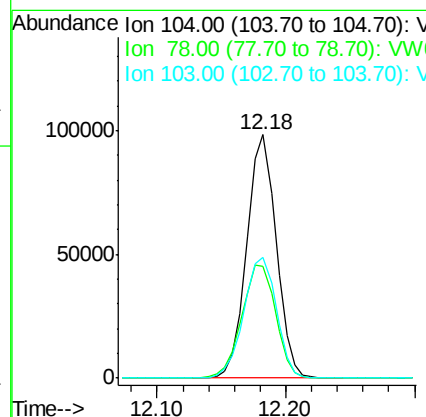
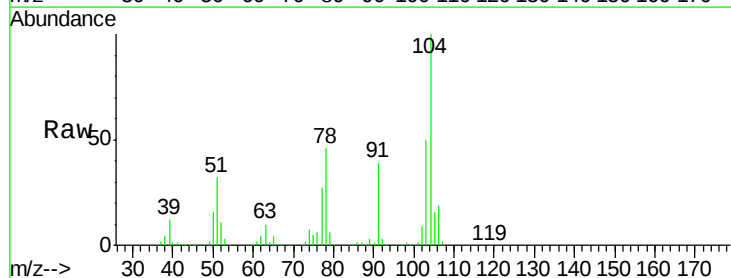
Manual Integrations
APPROVED

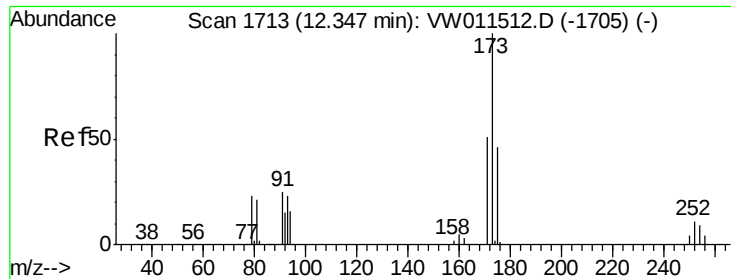
MMDadoda
8/19/2019 10:55:19 AM



#70
Styrene
Concen: 22.132 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW011954.D
Acq: 16 Aug 2019 10:34

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	155316		
78	53.8	43.4	65.0		
103	55.3	43.9	65.9		





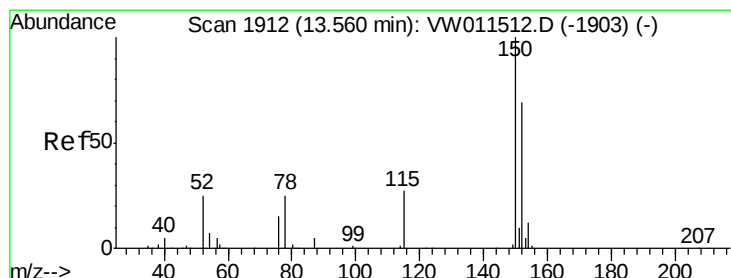
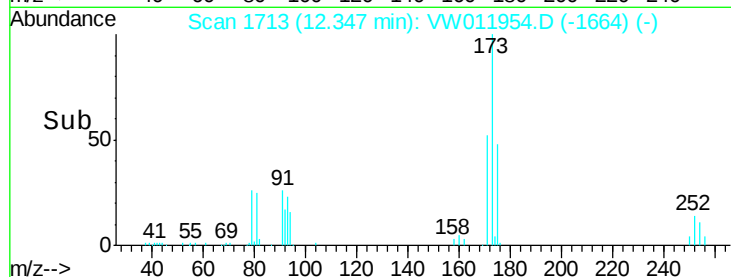
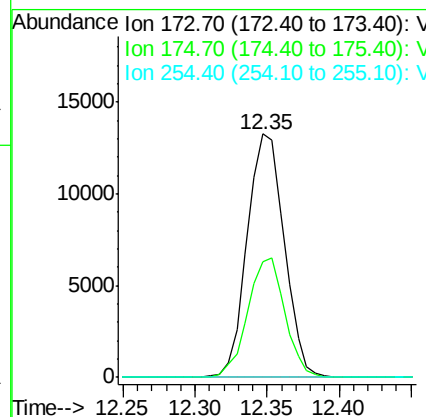
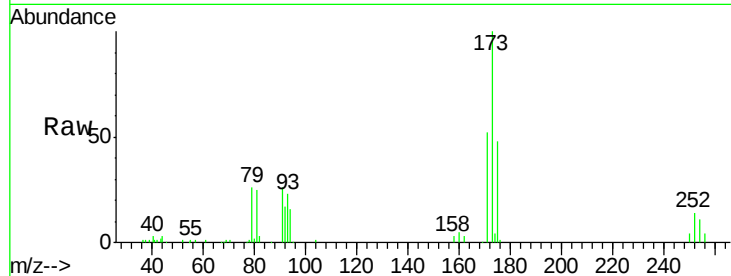
#71
Bromoform
Concen: 21.043 ug/l
RT: 12.35 min Scan# 1713
Delta R.T. 0.00 min
Lab File: VW011954.D
Acq: 16 Aug 2019 10:34

Instrument :
MSVOA_W
ClientSampleId :
VW0817SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.9	23.6	71.0
254	0.0	0.1	0.1#

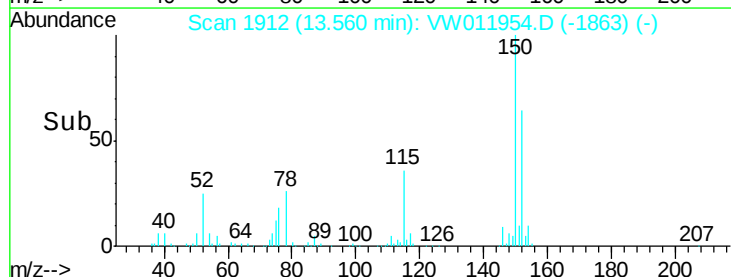
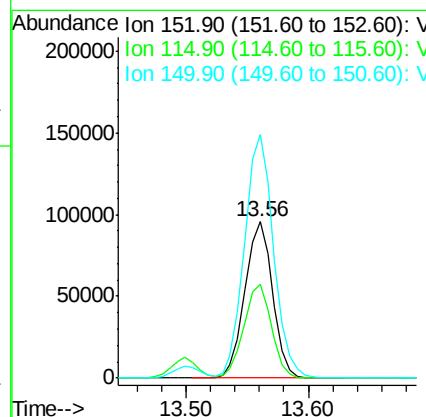
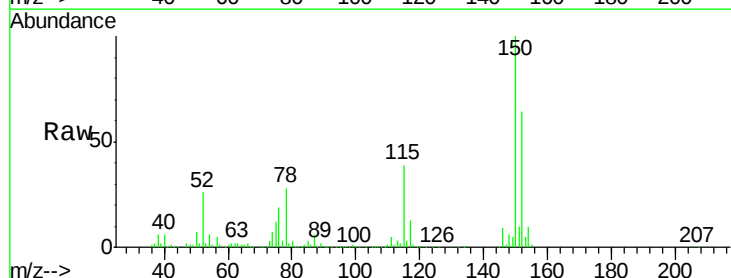
Manual Integrations
APPROVED

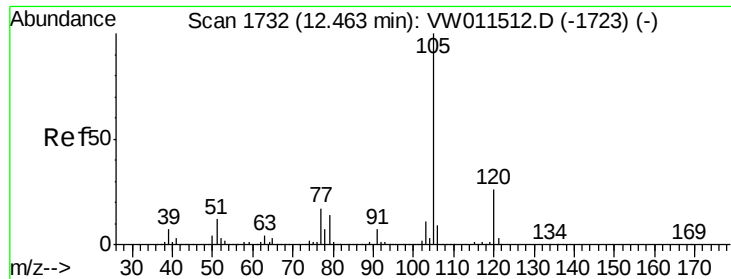
MMDadoda
8/19/2019 10:55:19 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW011954.D
Acq: 16 Aug 2019 10:34

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.7	30.5	91.5
150	163.3	0.0	352.6





#73

Isopropylbenzene

Concen: 22.932 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW011954.D

Acq: 16 Aug 2019 10:34

Instrument :

MSVOA_W

ClientSampled :

VW0817SBS01

Tot Ion: 105 Resp: 257446

Ion Ratio Lower Upper

105 100

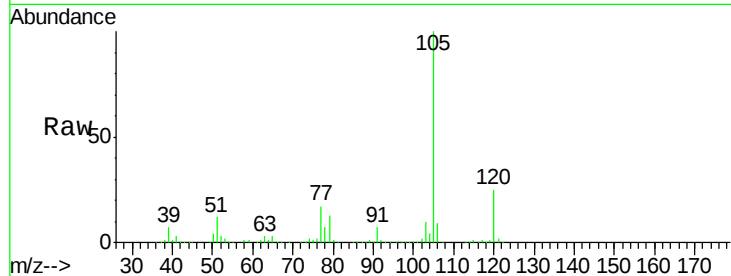
120 25.4 12.9 38.7

Manual Integrations

APPROVED

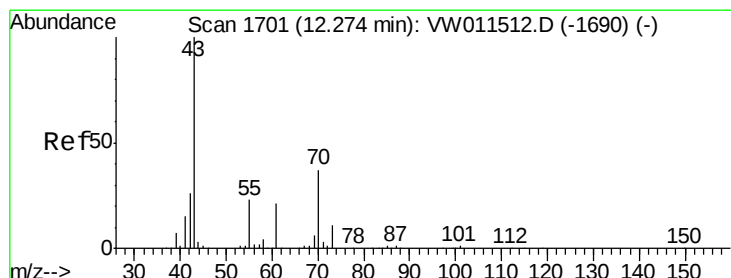
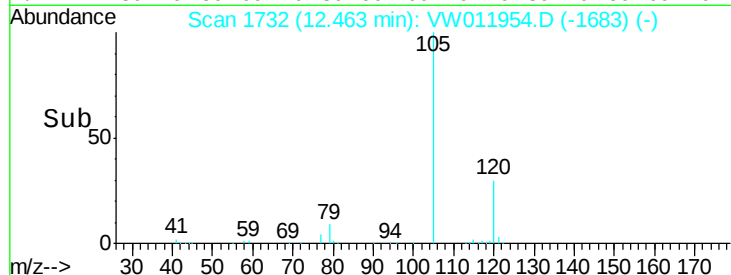
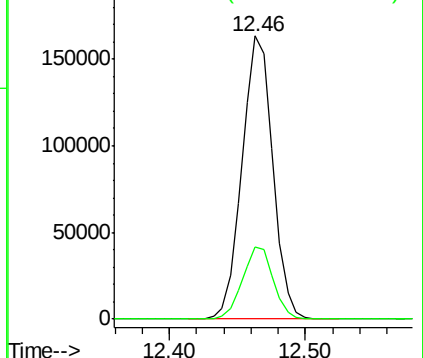
MMDadoda

8/19/2019 10:55:19 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 21.443 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VW011954.D

Acq: 16 Aug 2019 10:34

Tgt Ion: 43 Resp: 75368

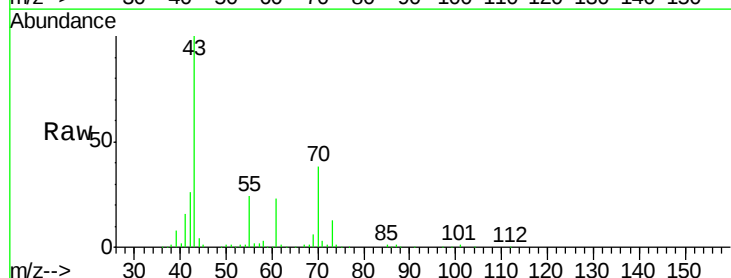
Ion Ratio Lower Upper

43 100

70 35.4 28.6 43.0

55 23.6 17.8 26.8

61 22.0 17.0 25.6

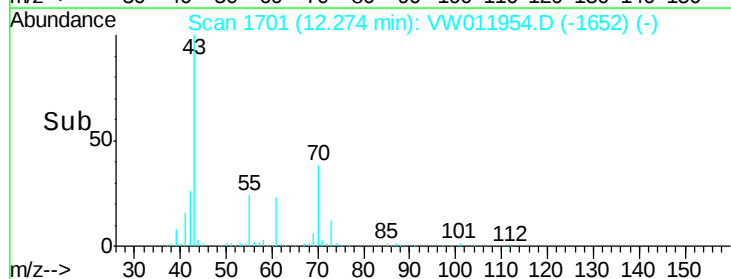
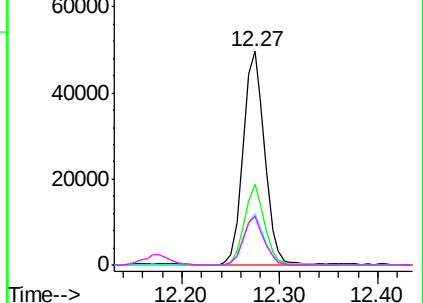


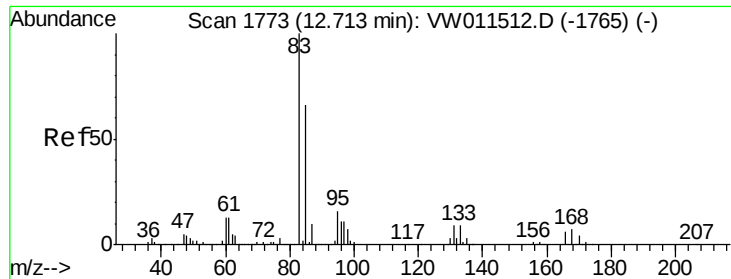
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW





#75

1,1,2,2-Tetrachloroethane

Concen: 22.048 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW011954.D

Acq: 16 Aug 2019 10:34

Instrument :

MSVOA_W

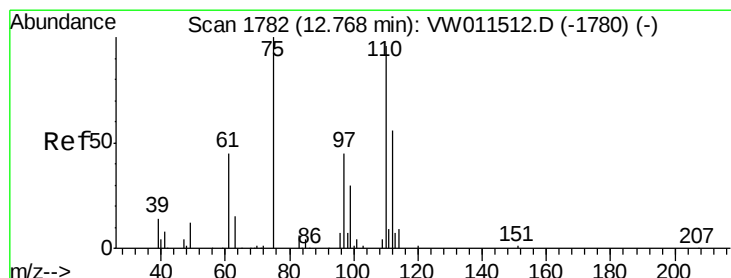
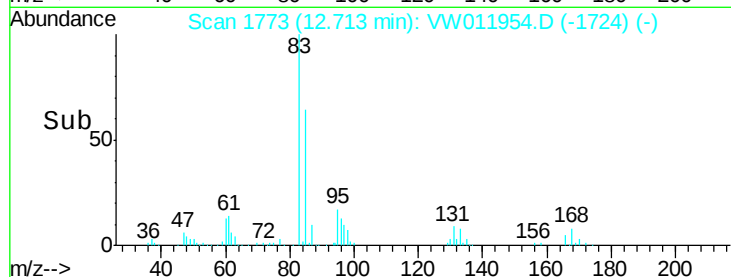
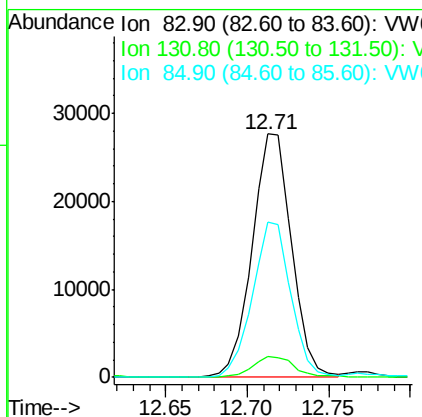
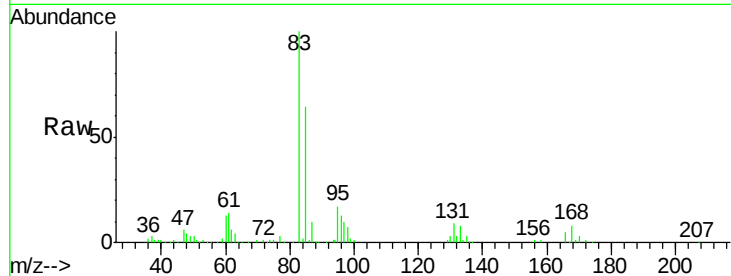
ClientSampleId :

VW0817SBSD01

Tot Ion:	83	Resp:	46560
Ion Ratio	Lower	Upper	
83	100		
131	9.4	4.9	14.6
85	62.1	31.8	95.4

Manual Integrations
APPROVED

MMDadoda
8/19/2019 10:55:19 AM



#76

1,2,3-Trichloropropane

Concen: 20.671 ug/l m

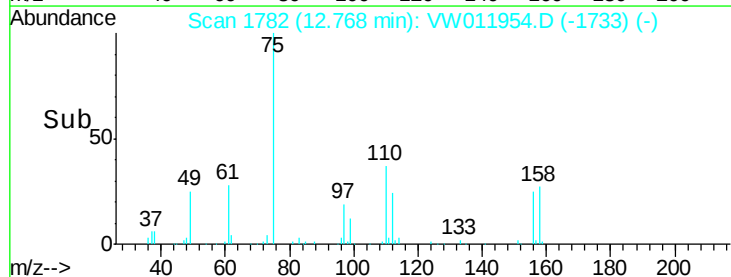
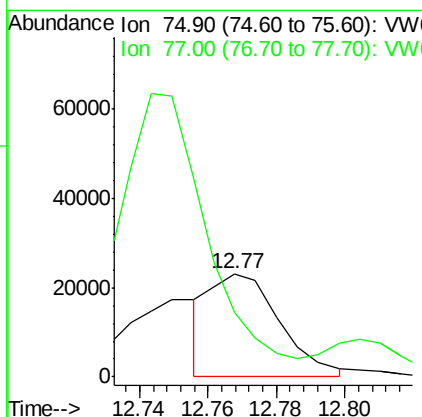
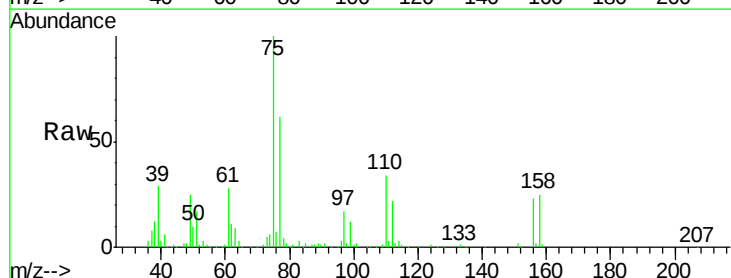
RT: 12.77 min Scan# 1782

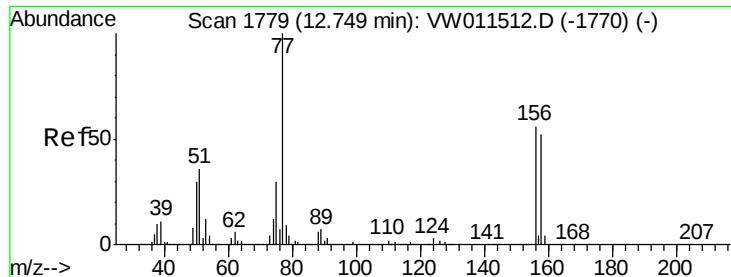
Delta R.T. 0.00 min

Lab File: VW011954.D

Acq: 16 Aug 2019 10:34

Tgt Ion:	75	Resp:	32915
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 22.133 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. 0.00 min

Lab File: VW011954.D

Acq: 16 Aug 2019 10:34

Instrument :

MSVOA_W

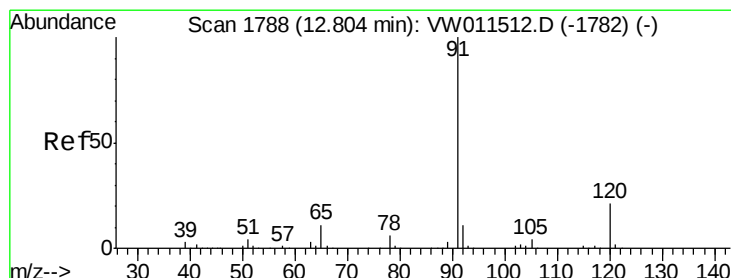
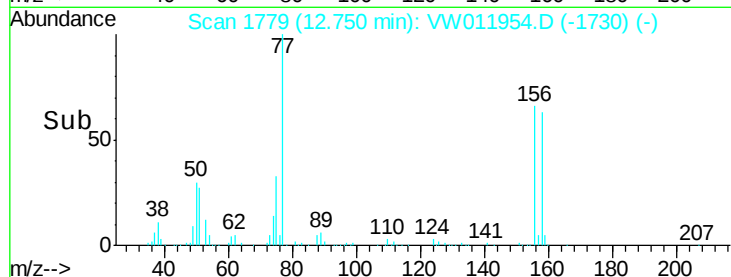
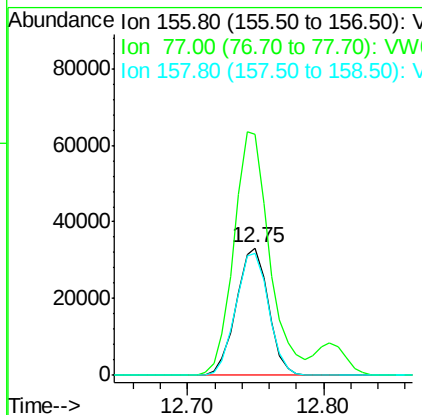
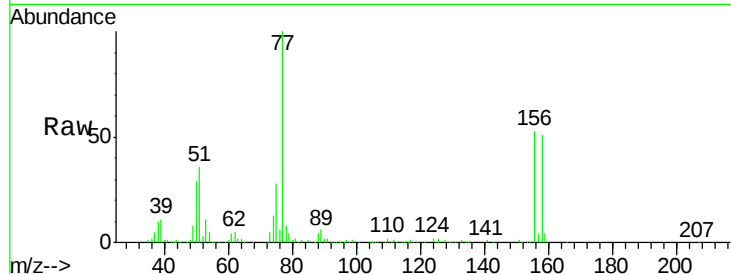
ClientSampleId :

VW0817SBSD01

Tot Ion	Ratio	Lower	Upper
156	100		
77	211.0	106.5	319.4
158	98.1	48.0	144.2

Manual Integrations
APPROVED

MMDadoda
8/19/2019 10:55:19 AM



#78

n-propylbenzene

Concen: 23.335 ug/l

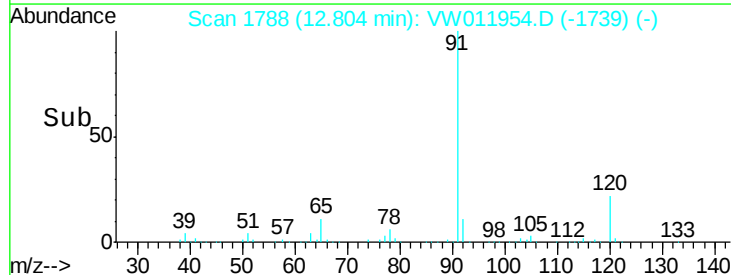
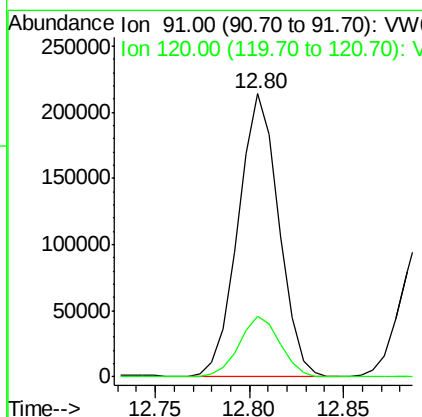
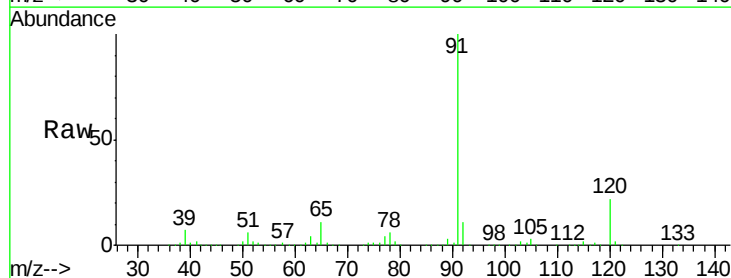
RT: 12.80 min Scan# 1788

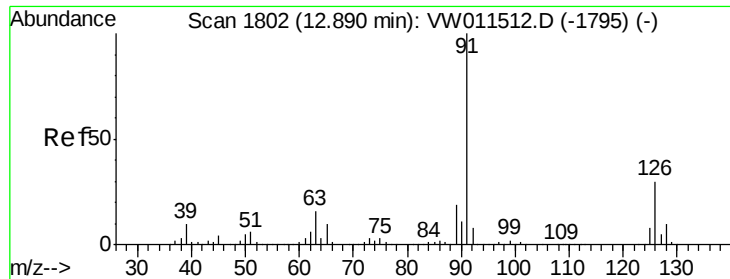
Delta R.T. 0.00 min

Lab File: VW011954.D

Acq: 16 Aug 2019 10:34

Tgt Ion	Ratio	Lower	Upper
91	100		
120	21.5	10.9	32.7





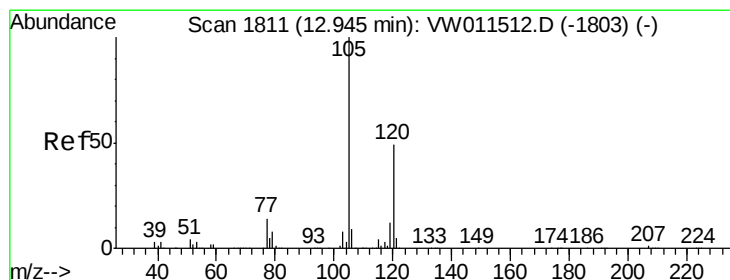
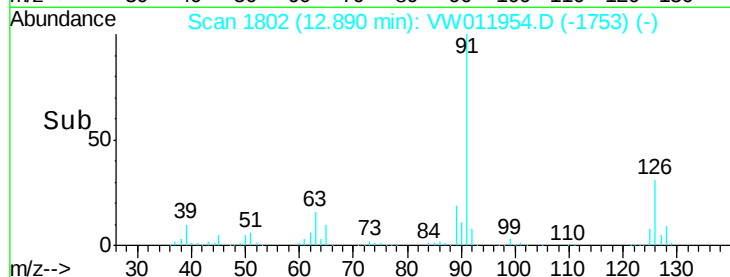
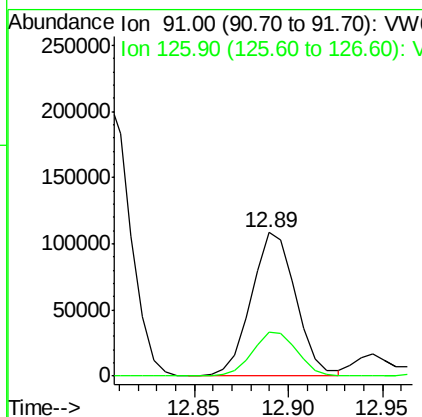
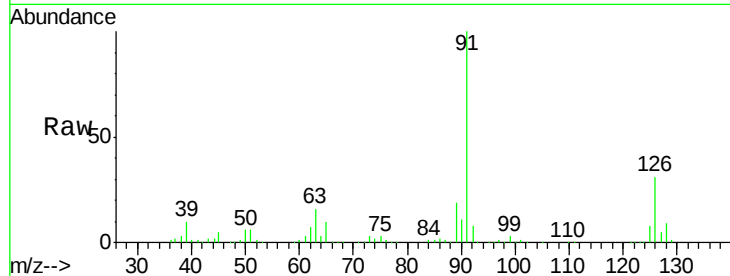
#79
 2-Chlorotoluene
 Concen: 22.568 ug/l
 RT: 12.89 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VW011954.D
 Acq: 16 Aug 2019 10:34

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0817SBSD01

Tot Ion: 91 Resp: 177635
 Ion Ratio Lower Upper
 91 100
 126 30.9 15.7 47.1

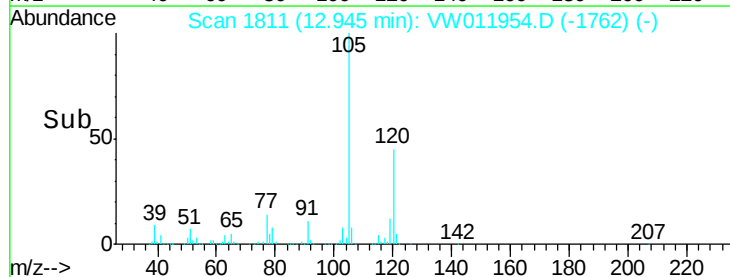
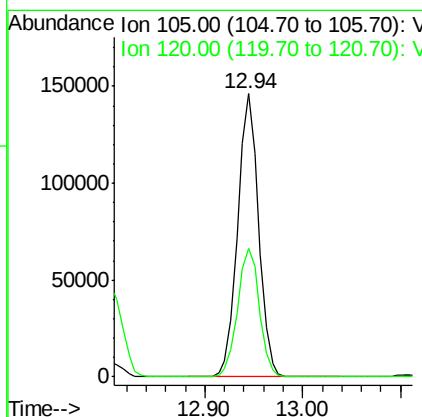
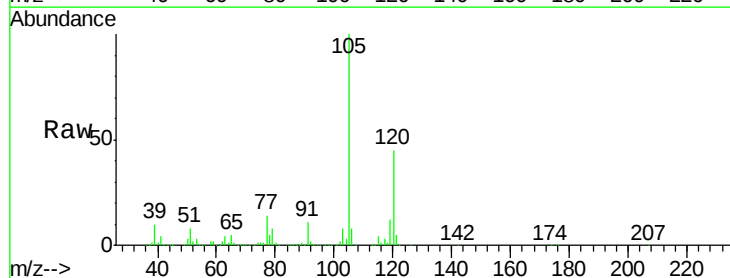
Manual Integrations
 APPROVED

MMDadoda
 8/19/2019 10:55:19 AM



#80
 1,3,5-Trimethylbenzene
 Concen: 23.026 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. 0.00 min
 Lab File: VW011954.D
 Acq: 16 Aug 2019 10:34

Tgt Ion:105 Resp: 216692
 Ion Ratio Lower Upper
 105 100
 120 47.0 24.1 72.3





#81

trans-1,4-Dichloro-2-butene

Concen: 21.761 ug/l

RT: 12.51 min Scan# 1740

Delta R.T. 0.00 min

Lab File: VW011954.D

Acq: 16 Aug 2019 10:34

Instrument :

MSVOA_W

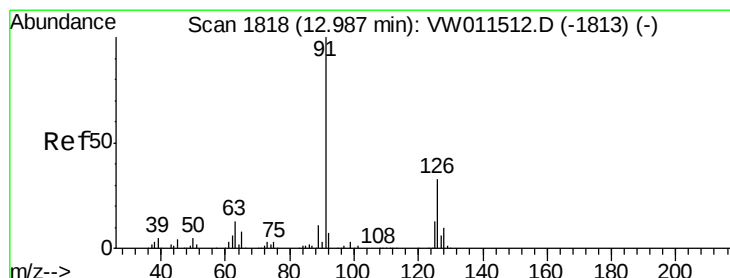
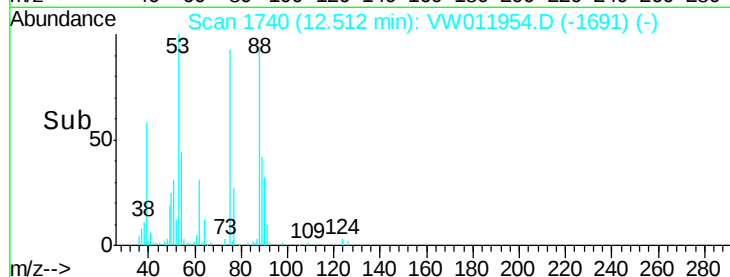
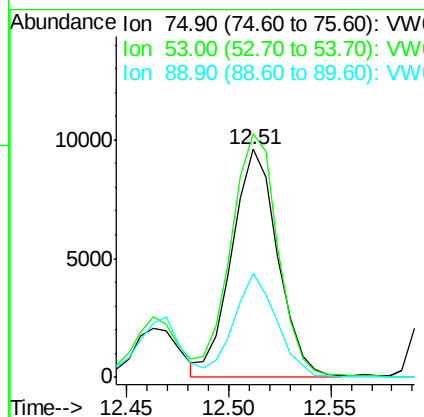
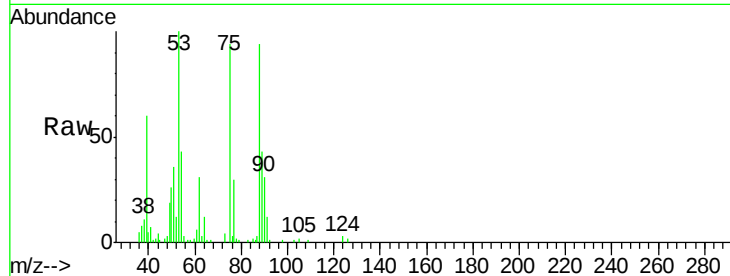
ClientSampleId :

VW0817SBSD01

Tot Ion:	75	Resp:	15035
Ion	Ratio	Lower	Upper
75	100		
53	110.4	88.0	132.0
89	42.3	35.3	52.9

Manual Integrations
APPROVED

MMDadoda
8/19/2019 10:55:19 AM



#82

4-Chlorotoluene

Concen: 22.132 ug/l

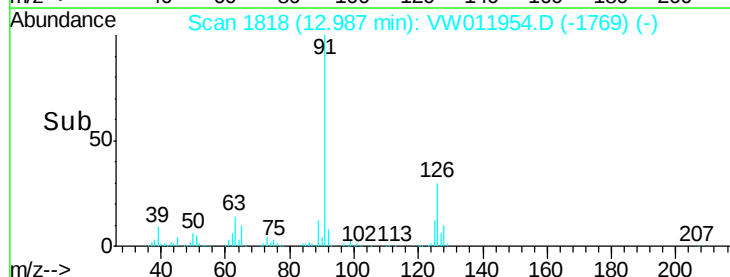
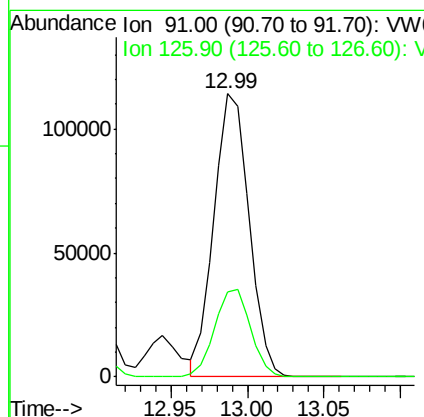
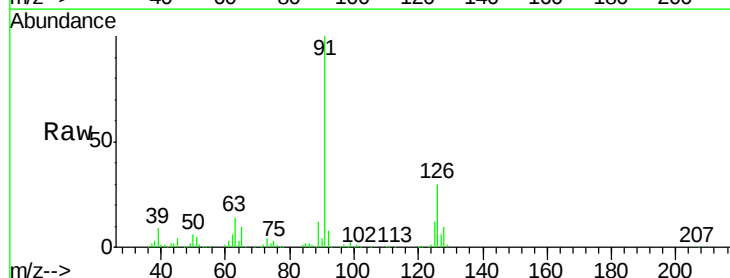
RT: 12.99 min Scan# 1818

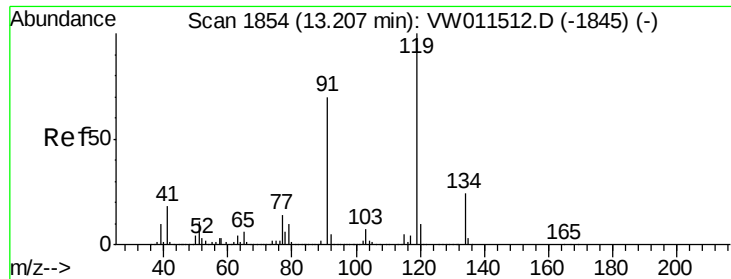
Delta R.T. 0.00 min

Lab File: VW011954.D

Acq: 16 Aug 2019 10:34

Tgt Ion:	91	Resp:	182778
Ion	Ratio	Lower	Upper
91	100		
126	31.7	15.6	46.8





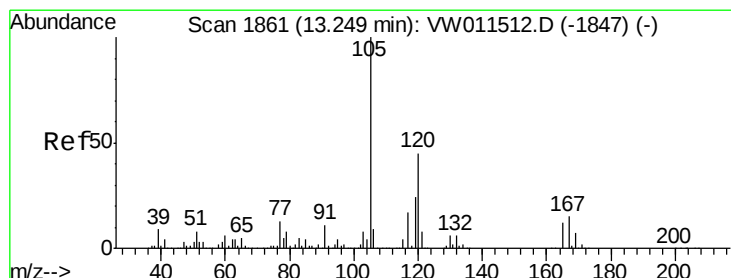
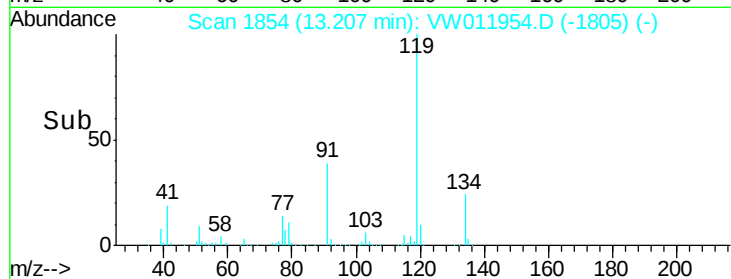
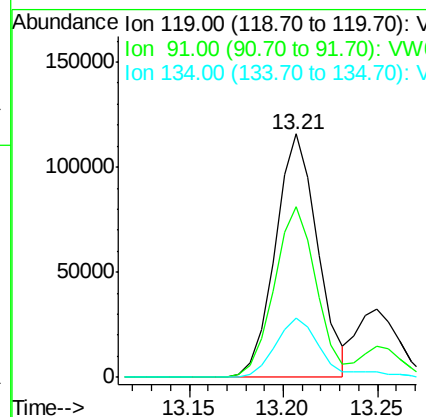
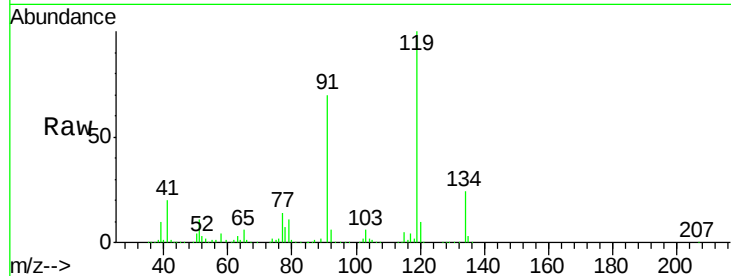
#83
 tert-Butylbenzene
 Concen: 22.864 ug/l
 RT: 13.21 min Scan# 1854
 Delta R.T. 0.00 min
 Lab File: VW011954.D
 Acq: 16 Aug 2019 10:34

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0817SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	179930		
91	69.4	34.5	103.6	
134	26.7	12.4	37.4	

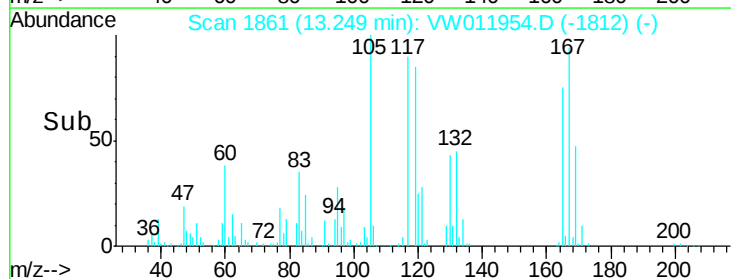
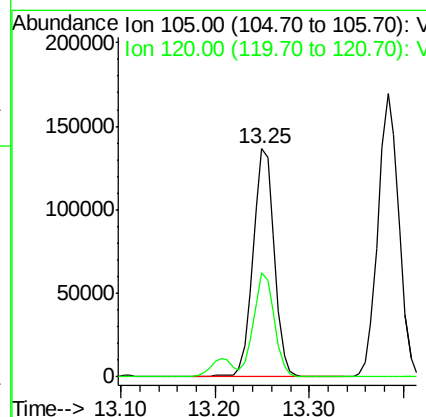
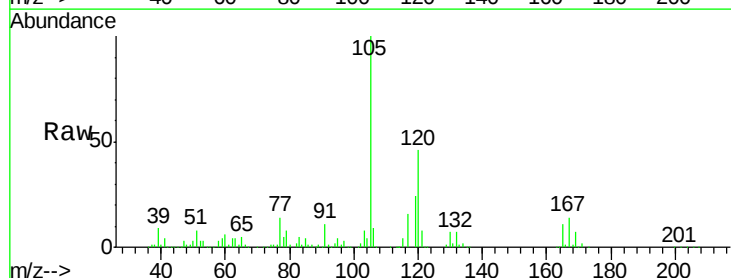
Manual Integrations
 APPROVED

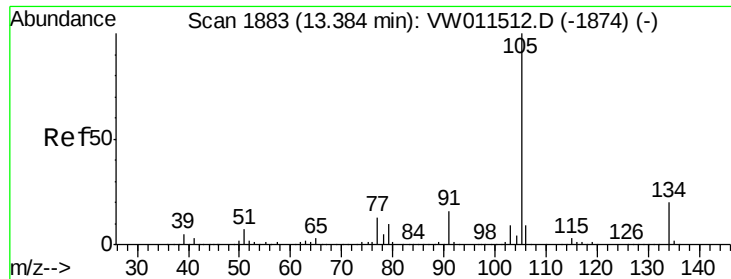
MMDadoda
 8/19/2019 10:55:19 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 22.801 ug/l
 RT: 13.25 min Scan# 1861
 Delta R.T. 0.00 min
 Lab File: VW011954.D
 Acq: 16 Aug 2019 10:34

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	216154		
120	44.1	22.1	66.5	





#85

sec-Butylbenzene

Concen: 23.186 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VW011954.D

Acq: 16 Aug 2019 10:34

Instrument :

MSVOA_W

ClientSampleId :

VW0817SBSD01

Tot Ion:105 Resp: 260358

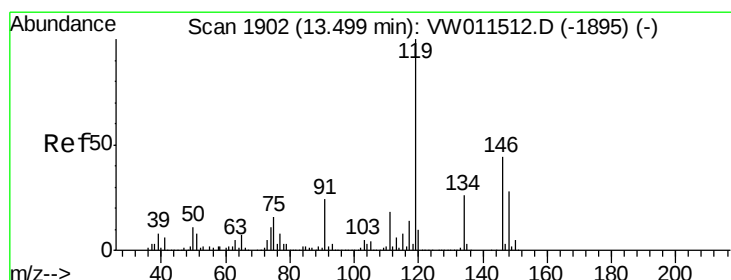
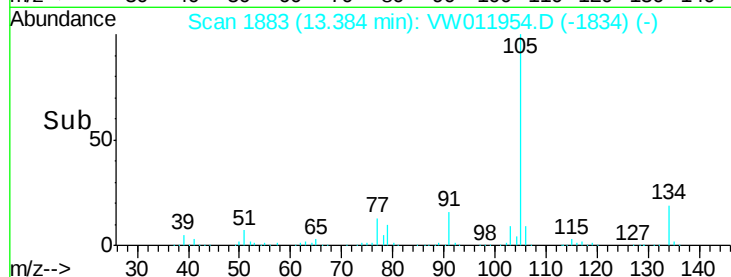
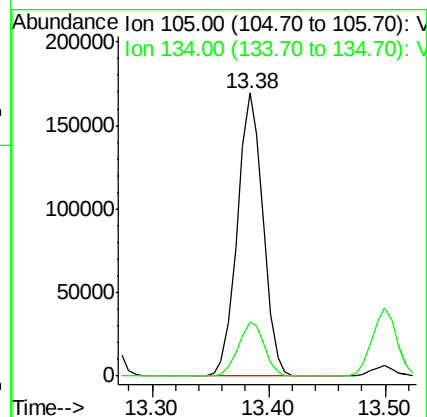
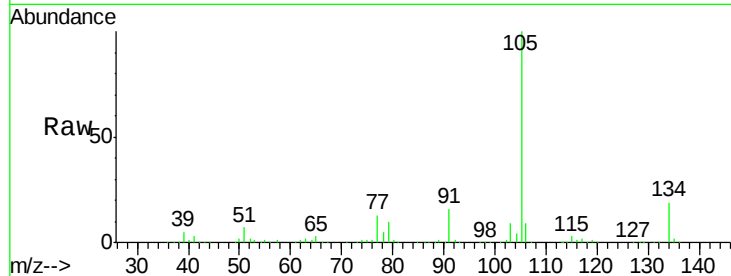
Ion Ratio Lower Upper

105 100

134 19.4 9.7 29.1

Manual Integrations
APPROVED

MMDadoda
8/19/2019 10:55:19 AM



#86

p-Isopropyltoluene

Concen: 22.840 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW011954.D

Acq: 16 Aug 2019 10:34

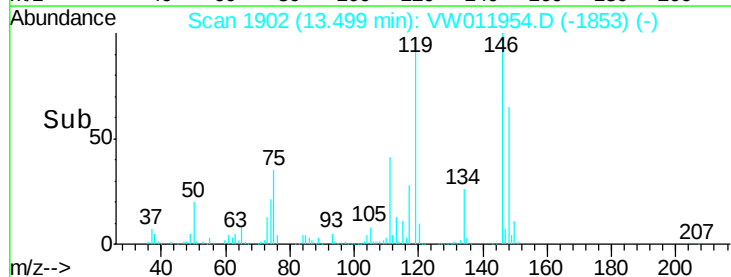
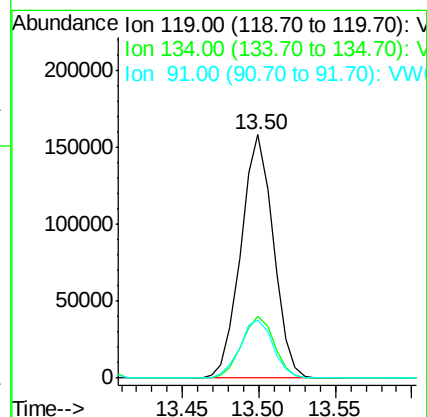
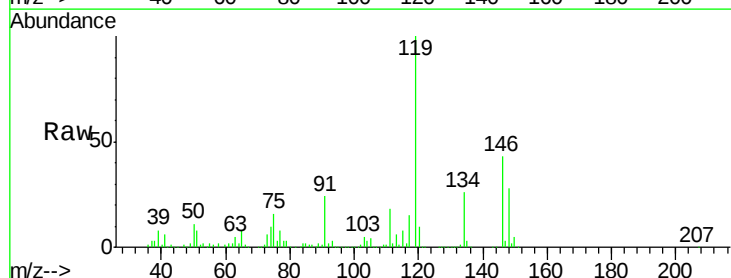
Tgt Ion:119 Resp: 232702

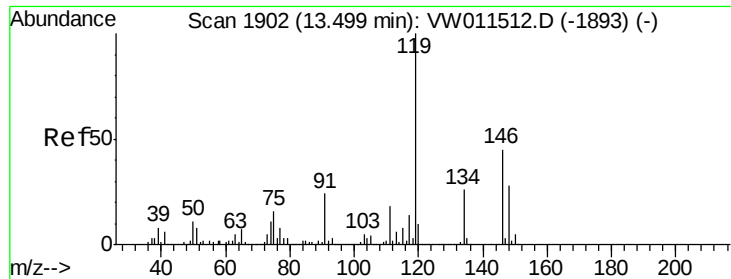
Ion Ratio Lower Upper

119 100

134 25.7 12.8 38.4

91 24.5 12.1 36.3





#87

1,3-Dichlorobenzene

Concen: 21.926 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW011954.D

Acq: 16 Aug 2019 10:34

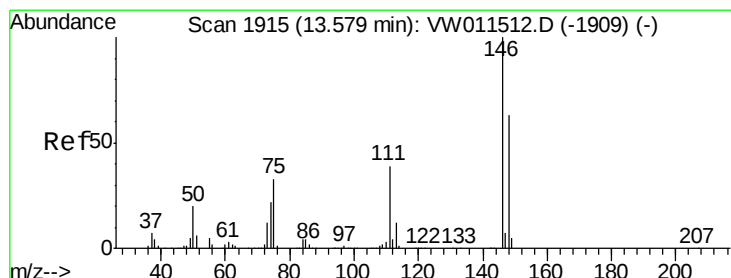
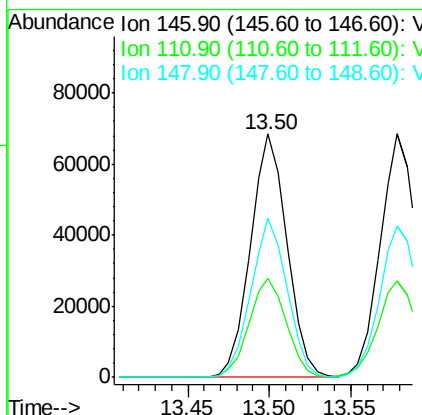
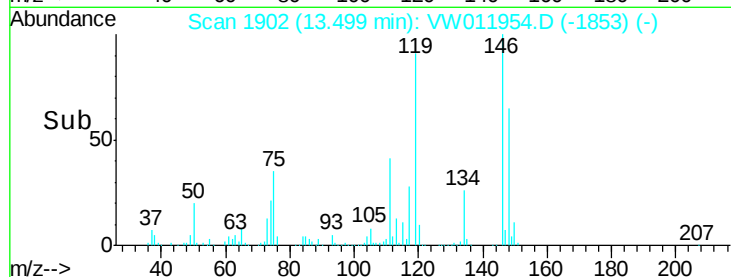
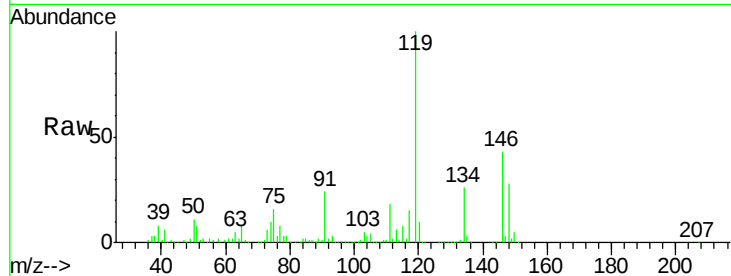
Instrument :
MSVOA_W

ClientSampleId :
VW0817SBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	106680		
111	41.4	20.5	61.6	
148	64.7	31.8	95.3	

Manual Integrations
APPROVED

MMDadoda
8/19/2019 10:55:19 AM



#88

1,4-Dichlorobenzene

Concen: 22.133 ug/l

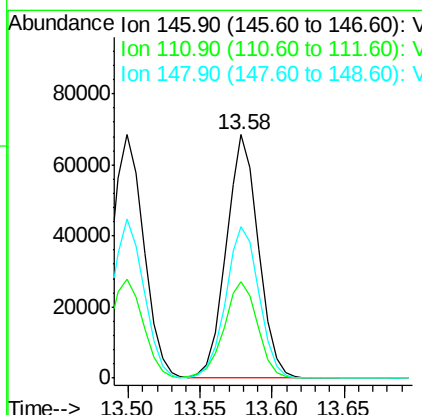
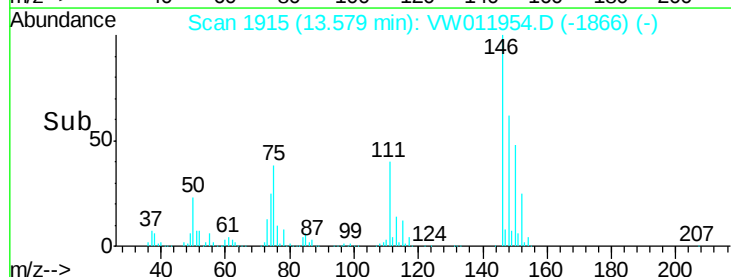
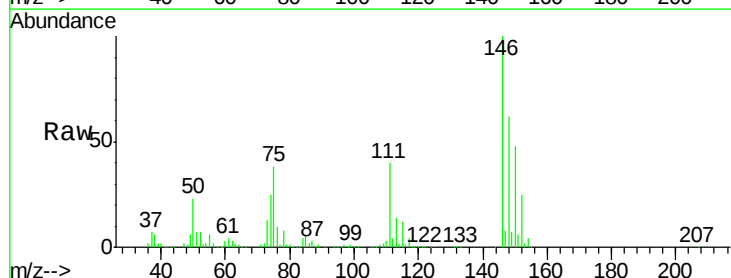
RT: 13.58 min Scan# 1915

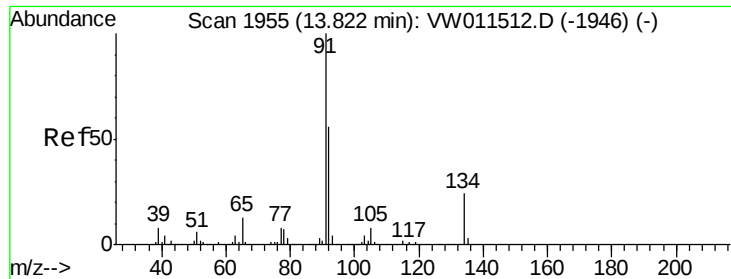
Delta R.T. 0.00 min

Lab File: VW011954.D

Acq: 16 Aug 2019 10:34

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	107126		
111	41.5	20.1	60.2	
148	64.3	31.9	95.9	





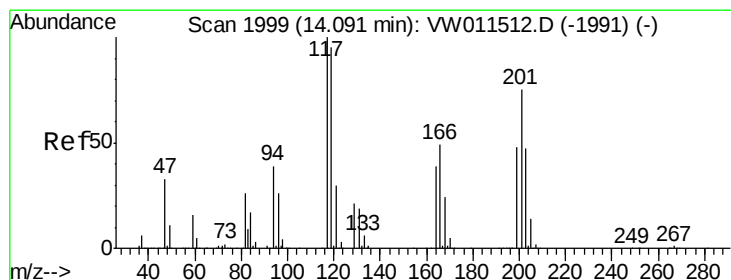
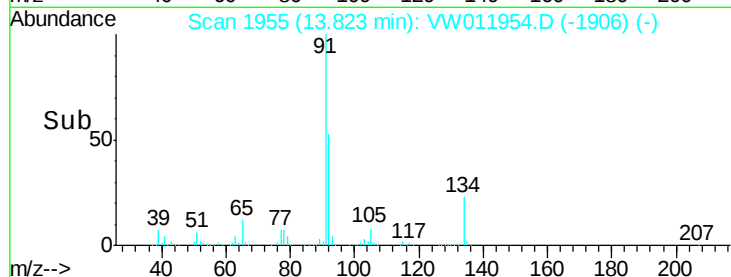
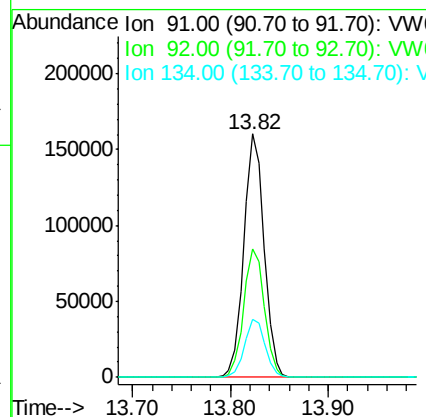
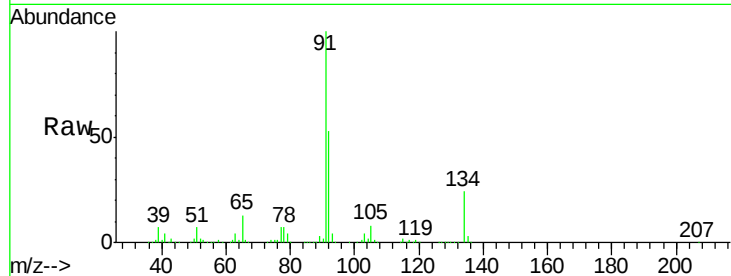
#89
n-Butylbenzene
Concen: 22.744 ug/l
RT: 13.82 min Scan# 1955
Delta R.T. 0.00 min
Lab File: VW011954.D
Acq: 16 Aug 2019 10:34

Instrument :
MSVOA_W
ClientSampleId :
VW0817SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.9	27.5	82.4
134	24.2	12.2	36.6

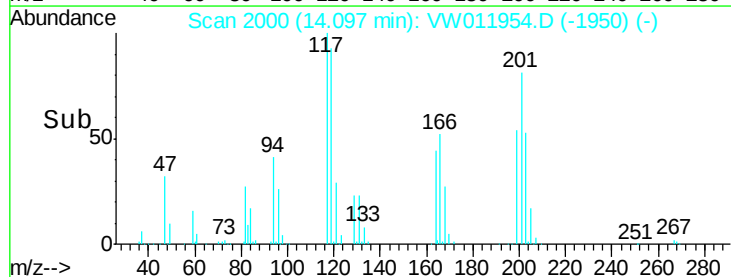
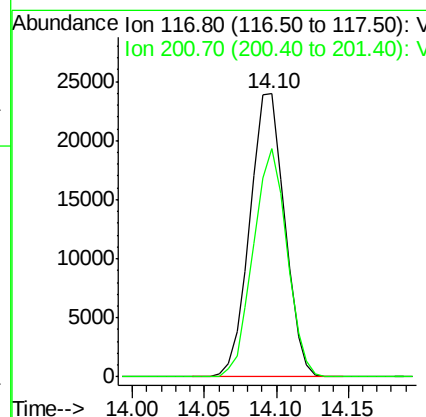
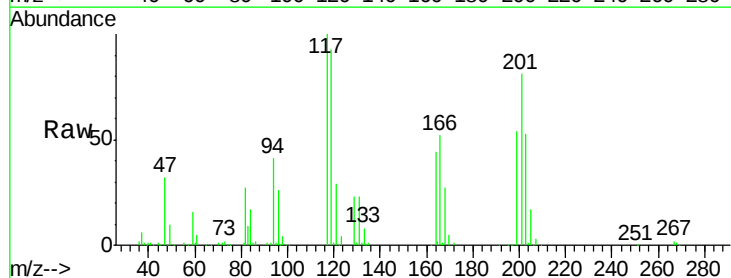
Manual Integrations
APPROVED

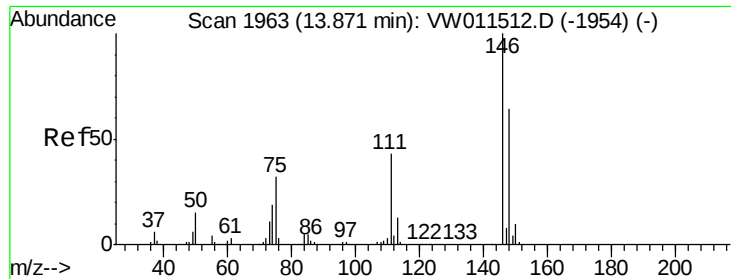
MMDadoda
8/19/2019 10:55:19 AM



#90
Hexachloroethane
Concen: 22.261 ug/l
RT: 14.10 min Scan# 2000
Delta R.T. 0.01 min
Lab File: VW011954.D
Acq: 16 Aug 2019 10:34

Tgt Ion	Ratio	Lower	Upper
117	100		
201	78.0	39.4	118.2





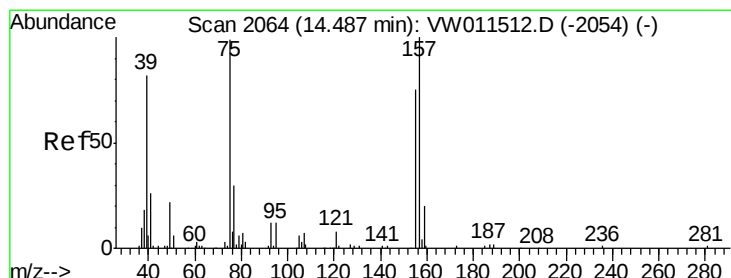
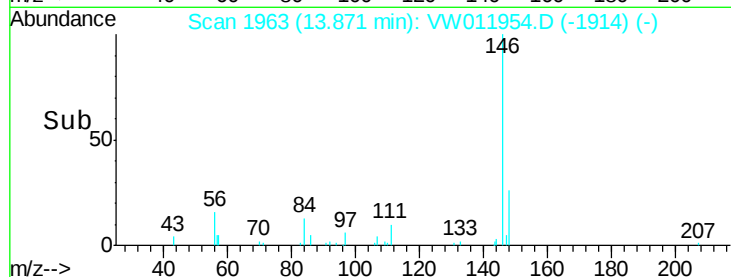
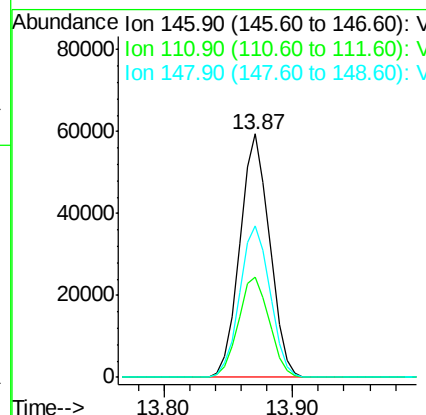
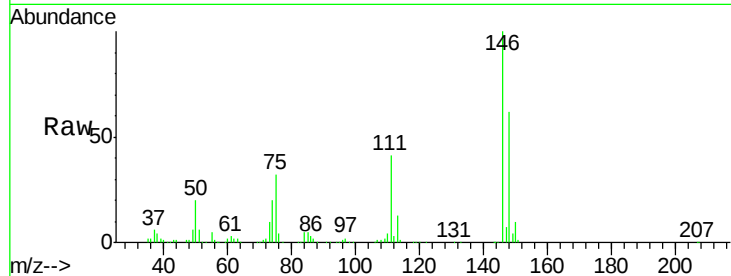
#91
 1,2-Dichlorobenzene
 Concen: 22.093 ug/l
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW011954.D
 Acq: 16 Aug 2019 10:34

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0817SBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.6	65.0
148	63.6	32.0	96.2

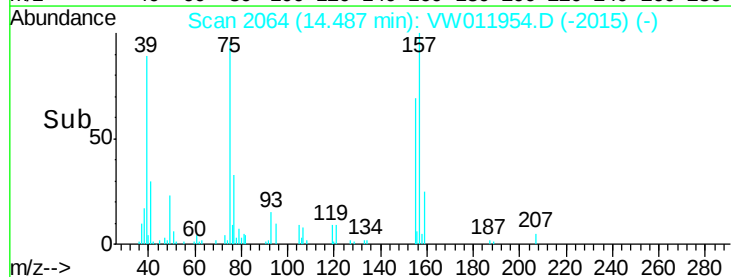
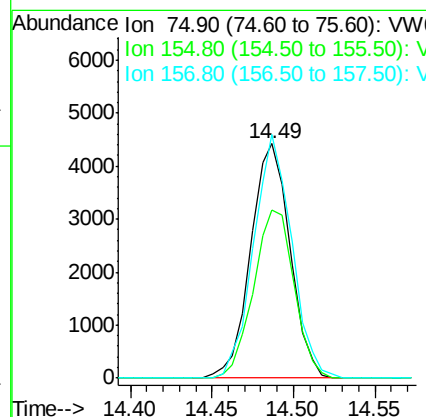
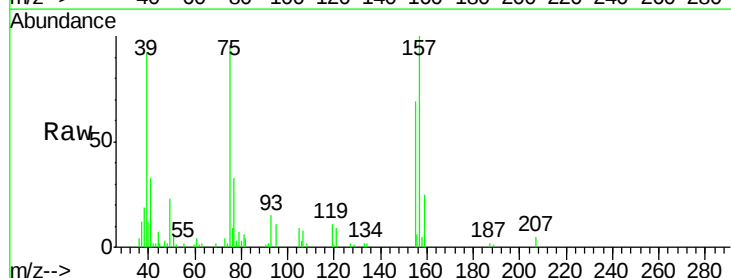
Manual Integrations
 APPROVED

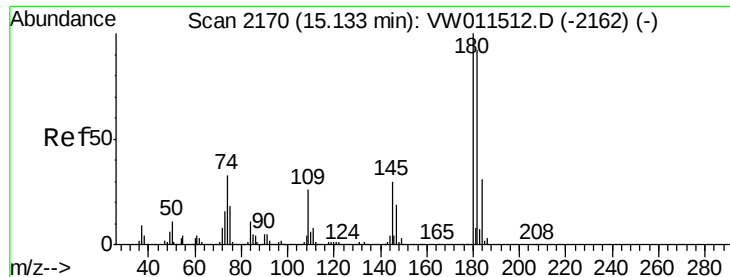
MMDadoda
 8/19/2019 10:55:19 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.591 ug/l
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VW011954.D
 Acq: 16 Aug 2019 10:34

Tgt Ion	Ratio	Lower	Upper
75	100		
155	73.6	38.2	114.6
157	100.5	48.9	146.7





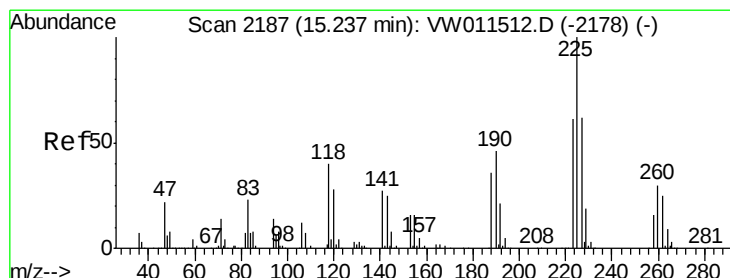
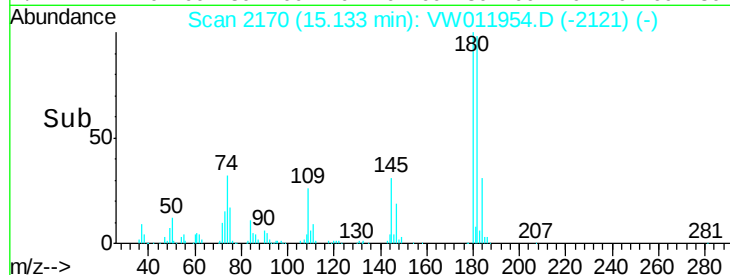
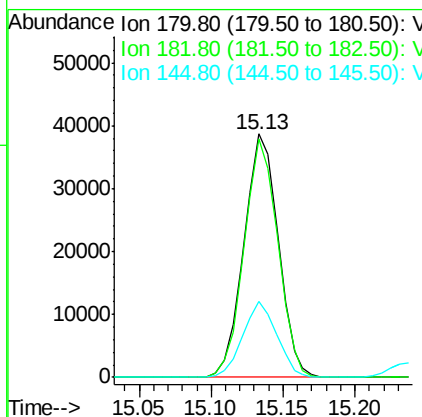
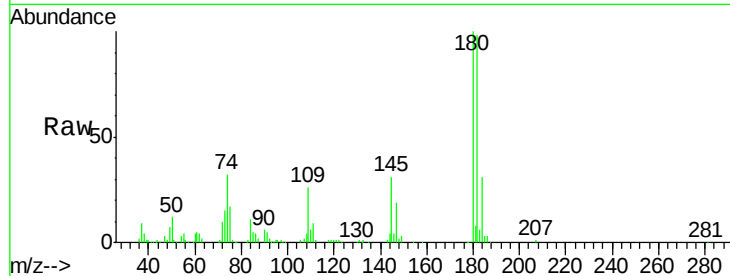
#93
 1,2,4-Trichlorobenzene
 Concen: 21.088 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW011954.D
 Acq: 16 Aug 2019 10:34

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0817SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	63956		
182	96.0		47.4	142.2
145	31.0		15.4	46.1

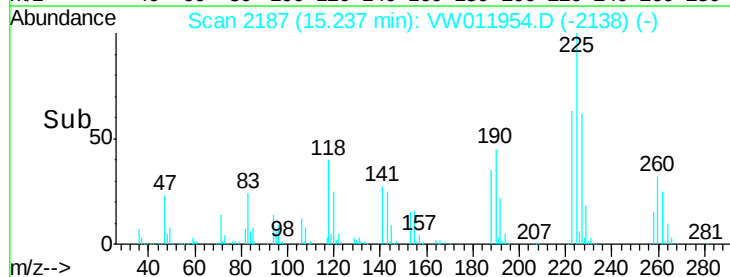
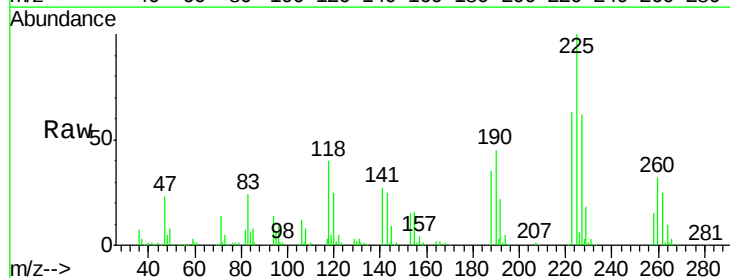
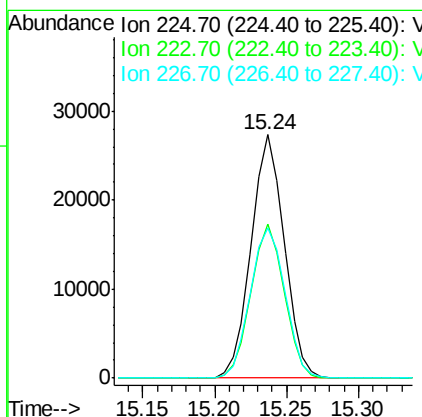
Manual Integrations
 APPROVED

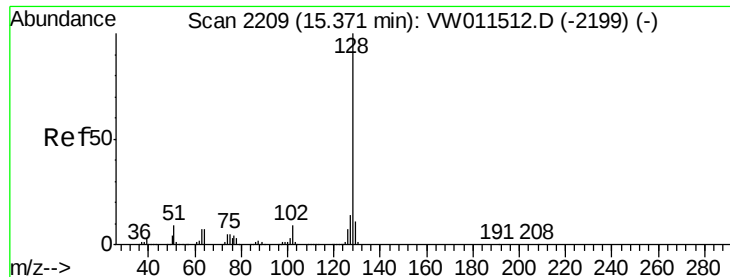
MMDadoda
 8/19/2019 10:55:19 AM



#94
 Hexachlorobutadiene
 Concen: 22.959 ug/l
 RT: 15.24 min Scan# 2187
 Delta R.T. 0.00 min
 Lab File: VW011954.D
 Acq: 16 Aug 2019 10:34

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	43423		
223	63.5		30.8	92.3
227	64.8		31.6	94.7





#95

Naphthalene

Concen: 20.121 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW011954.D

Acq: 16 Aug 2019 10:34

Instrument :

MSVOA_W

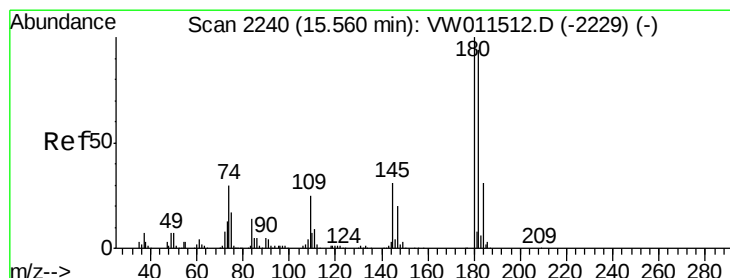
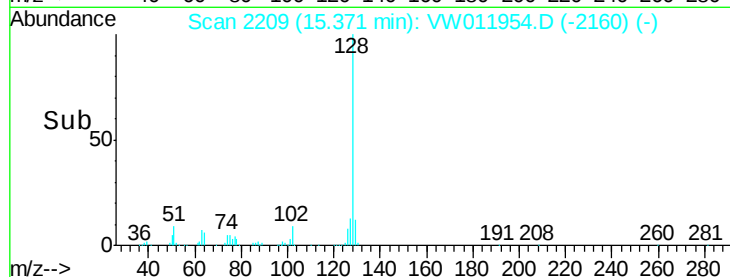
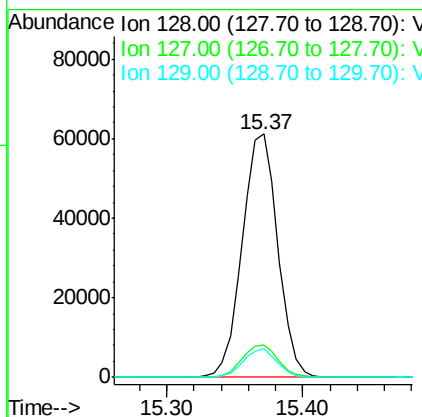
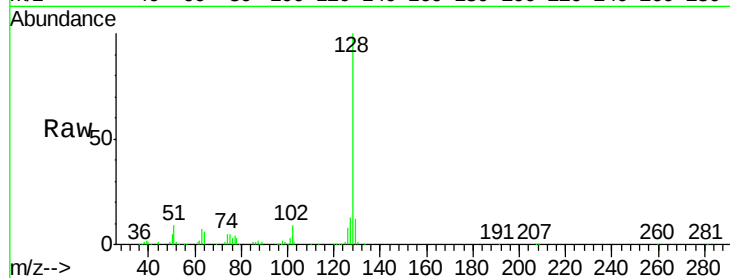
ClientSampleId :

VW0817SBS01

Tot Ion:	128	Resp:	111885
Ion Ratio	Lower	Upper	
128	100		
127	13.6	10.6	16.0
129	11.2	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
8/19/2019 10:55:19 AM



#96

1,2,3-Trichlorobenzene

Concen: 21.167 ug/l

RT: 15.56 min Scan# 2240

Delta R.T. 0.00 min

Lab File: VW011954.D

Acq: 16 Aug 2019 10:34

Tgt Ion:	180	Resp:	56271
Ion Ratio	Lower	Upper	
180	100		
182	95.0	47.4	142.2
145	31.7	15.9	47.7

