

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090419\
 Data File : VU034225.D
 Acq On : 03 Sep 2019 14:38
 Operator : JC/SP
 Sample : VU0904WBSD01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0904WBSD01

Manual Integrations
 APPROVED

MMDadoda
 9/4/2019 4:57:58 PM

Quant Time: Sep 04 05:35:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 29 04:11:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	380974	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	617701	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	587844	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	320287	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.29	65	242161	49.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.22%	
35) Dibromofluoromethane	4.86	113	207948	48.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.08%	
50) Toluene-d8	7.55	98	792245	49.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.78%	
62) 4-Bromofluorobenzene	10.29	95	293645	47.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.12%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	69649	18.178	ug/l	100
3) Chloromethane	1.32	50	90070	16.188	ug/l	99
4) Vinyl Chloride	1.40	62	91650	17.972	ug/l	99
5) Bromomethane	1.62	94	52318	17.543	ug/l	100
6) Chloroethane	1.69	64	57138	18.327	ug/l	99
7) Trichlorofluoromethane	1.88	101	113703	19.243	ug/l	99
8) Diethyl Ether	2.09	74	49879	19.733	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	2.28	101	72237	19.298	ug/l	99
10) Methyl Iodide	2.40	142	55348	10.423	ug/l	99
11) Tert butyl alcohol	2.81	59	86722	77.037	ug/l	99
12) 1,1-Dichloroethene	2.27	96	73388	19.242	ug/l	98
13) Acrolein	2.19	56	21743	45.914	ug/l	97
14) Allyl chloride	2.58	41	132972m	18.543	ug/l	
15) Acrylonitrile	2.92	53	250290	96.893	ug/l	99
16) Acetone	2.31	43	206844	83.043	ug/l	99
17) Carbon Disulfide	2.47	76	197808	16.387	ug/l	99
18) Methyl Acetate	2.60	43	122784	19.076	ug/l	98
19) Methyl tert-butyl Ether	2.98	73	247869	19.835	ug/l	99
20) Methylene Chloride	2.69	84	89216	18.920	ug/l	99
21) trans-1,2-Dichloroethene	2.97	96	80054	19.340	ug/l	99
22) Diisopropyl ether	3.55	45	266964	20.317	ug/l	98
23) Vinyl Acetate	3.51	43	1089786	96.547	ug/l	100
24) 1,1-Dichloroethane	3.43	63	153464	19.782	ug/l	99
25) 2-Butanone	4.24	43	321207	92.691	ug/l	100
26) 2,2-Dichloropropane	4.21	77	113854	18.036	ug/l	99
27) cis-1,2-Dichloroethene	4.21	96	90018	19.376	ug/l	98
28) Bromochloromethane	4.52	49	68566	17.940	ug/l	99
29) Tetrahydrofuran	4.62	42	207638	97.160	ug/l	99
30) Chloroform	4.65	83	152459	19.697	ug/l	99
31) Cyclohexane	4.97	56	129210	17.725	ug/l	94
32) 1,1,1-Trichloroethane	4.89	97	124262	19.602	ug/l	99
36) 1,1-Dichloropropene	5.12	75	105693	18.090	ug/l	100
37) Ethyl Acetate	4.36	43	119066	18.198	ug/l	99
38) Carbon Tetrachloride	5.11	117	106279	18.845	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090419\
 Data File : VU034225.D
 Acq On : 03 Sep 2019 14:38
 Operator : JC/SP
 Sample : VU0904WBSD01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0904WBSD01

Manual Integrations
 APPROVED

MMDadoda
 9/4/2019 4:57:58 PM

Quant Time: Sep 04 05:35:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 29 04:11:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.40	83	120176	17.451	ug/l	98
40) Benzene	5.37	78	337607	19.098	ug/l	100
41) Methacrylonitrile	4.52	41	63234	18.845	ug/l	97
42) 1,2-Dichloroethane	5.39	62	116012	19.005	ug/l	98
43) Isopropyl Acetate	5.53	43	182023	18.287	ug/l	100
44) Trichloroethene	6.17	130	90479	19.491	ug/l	98
45) 1,2-Dichloropropane	6.41	63	93772	19.270	ug/l	100
46) Dibromomethane	6.54	93	59948	19.122	ug/l	100
47) Bromodichloromethane	6.74	83	116787	19.040	ug/l	100
48) Methyl methacrylate	6.60	41	86373	17.982	ug/l	97
49) 1,4-Dioxane	6.59	88	32216	267.692	ug/l	96
51) 4-Methyl-2-Pentanone	7.44	43	626802	91.182	ug/l	100
52) Toluene	7.62	92	212291	19.495	ug/l	99
53) t-1,3-Dichloropropene	7.86	75	123564	18.156	ug/l	98
54) cis-1,3-Dichloropropene	7.25	75	137177	18.449	ug/l	99
55) 1,1,2-Trichloroethane	8.05	97	87547	19.006	ug/l	98
56) Ethyl methacrylate	8.00	69	121590	16.576	ug/l	99
57) 1,3-Dichloropropane	8.22	76	148566	18.996	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.11	63	206813	81.158	ug/l	100
59) 2-Hexanone	8.34	43	468489	90.279	ug/l	98
60) Dibromochloromethane	8.46	129	92708	18.750	ug/l	99
61) 1,2-Dibromoethane	8.57	107	88867	18.315	ug/l	100
64) Tetrachloroethene	8.21	164	78779	19.955	ug/l	100
65) Chlorobenzene	9.10	112	230224	19.031	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.19	131	82022	18.698	ug/l	100
67) Ethyl Benzene	9.23	91	388239	18.933	ug/l	100
68) m/p-Xylenes	9.36	106	299054	38.353	ug/l	100
69) o-Xylene	9.76	106	143537	19.188	ug/l	99
70) Styrene	9.77	104	250630	19.540	ug/l	99
71) Bromoform	9.94	173	68245	17.906	ug/l #	100
73) Isopropylbenzene	10.15	105	386662	17.973	ug/l	100
74) N-amyl acetate	10.00	43	155498	17.185	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.44	83	146833	17.832	ug/l	99
76) 1,2,3-Trichloropropane	10.48	75	128213m	17.761	ug/l	
77) Bromobenzene	10.43	156	104256	18.015	ug/l	99
78) n-propylbenzene	10.57	91	451018	18.002	ug/l	99
79) 2-Chlorotoluene	10.64	91	274865	18.290	ug/l	99
80) 1,3,5-Trimethylbenzene	10.75	105	338856	18.584	ug/l	100
81) trans-1,4-Dichloro-2-buten	10.49	75	38683m	18.044	ug/l	
82) 4-Chlorotoluene	10.75	91	317382	18.364	ug/l	100
83) tert-Butylbenzene	11.08	119	314696	17.532	ug/l	99
84) 1,2,4-Trimethylbenzene	11.13	105	332636	18.372	ug/l	99
85) sec-Butylbenzene	11.30	105	383191	17.811	ug/l	99
86) p-Isopropyltoluene	11.46	119	352190	18.100	ug/l	99
87) 1,3-Dichlorobenzene	11.40	146	187327	18.284	ug/l	99
88) 1,4-Dichlorobenzene	11.49	146	190980	18.432	ug/l	98
89) n-Butylbenzene	11.87	91	299084	17.434	ug/l	100
90) Hexachloroethane	12.12	117	51474	15.301	ug/l	99
91) 1,2-Dichlorobenzene	11.86	146	185132	18.863	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	12.64	75	27272	16.625	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090419\
Data File : VU034225.D
Acq On : 03 Sep 2019 14:38
Operator : JC/SP
Sample : VU0904WBSD01
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VU0904WBSD01

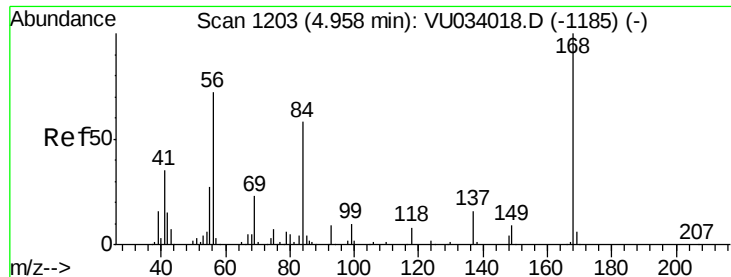
Manual Integrations
APPROVED

MMDadoda
9/4/2019 4:57:58 PM

Quant Time: Sep 04 05:35:11 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 29 04:11:12 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.49	180	118018	17.643	ug/l	98
94) Hexachlorobutadiene	13.67	225	59802	15.576	ug/l	97
95) Naphthalene	13.73	128	317091	17.083	ug/l	100
96) 1,2,3-Trichlorobenzene	13.97	180	115935	18.441	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034225.D

Acq: 03 Sep 2019 14:38

Instrument :

MSVOA_U

ClientSampleId :

VU0904WBSD01

Tot Ion:168 Resp: 380974

Ion Ratio Lower Upper

168 100

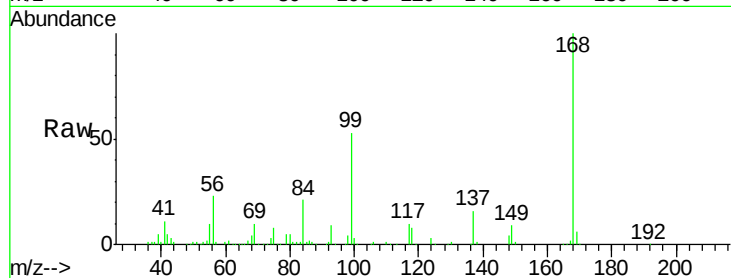
99 52.4 42.3 63.5

Manual Integrations

APPROVED

MMDadoda

9/4/2019 4:57:58 PM



Abundance Ion 167.90 (167.60 to 168.60): VU034018.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU034018.D (-1185) (-)

4.96

150000

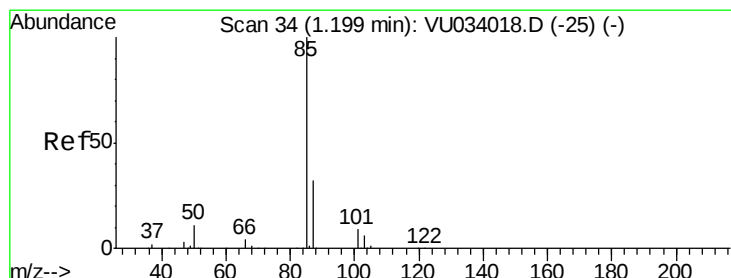
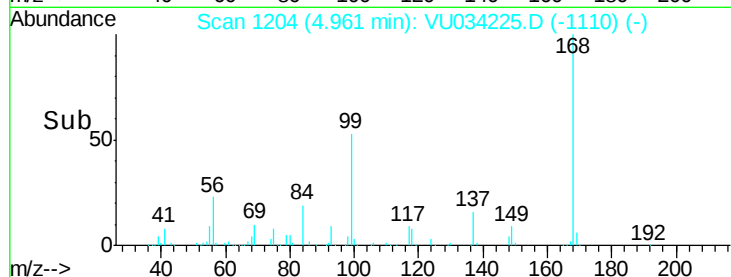
100000

50000

0

4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 18.178 ug/l

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU034225.D

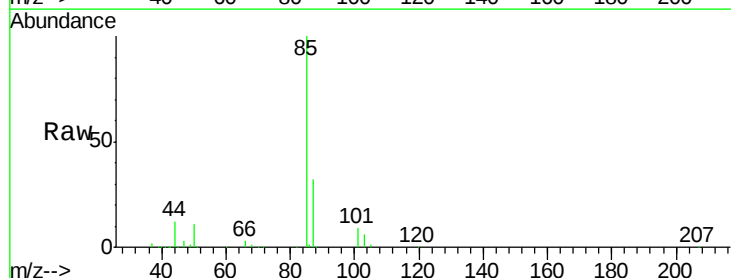
Acq: 03 Sep 2019 14:38

Tgt Ion: 85 Resp: 69649

Ion Ratio Lower Upper

85 100

87 32.2 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VU034018.D (-25) (-)

Ion 86.90 (86.60 to 87.60): VU034018.D (-25) (-)

1.20

80000

60000

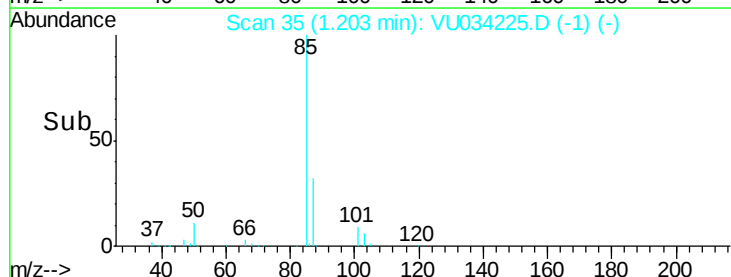
40000

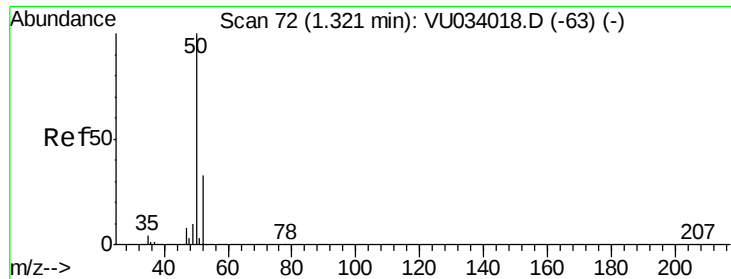
20000

0

1.15 1.20 1.25

Time-->





#3

Chloromethane

Concen: 16.188 ug/l

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034225.D

Acq: 03 Sep 2019 14:38

Instrument :

MSVOA_U

ClientSampleId :

VU0904WBSD01

Tot Ion: 50 Resp: 90070

Ion Ratio Lower Upper

50 100

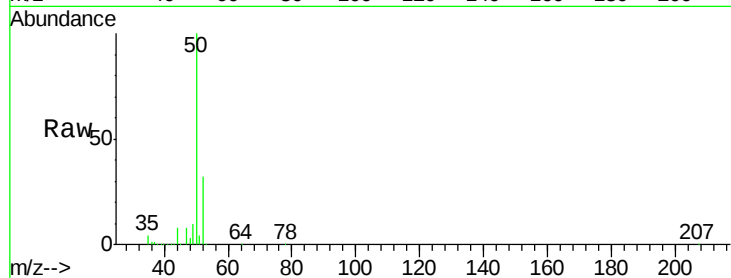
52 32.5 26.2 39.4

Manual Integrations

APPROVED

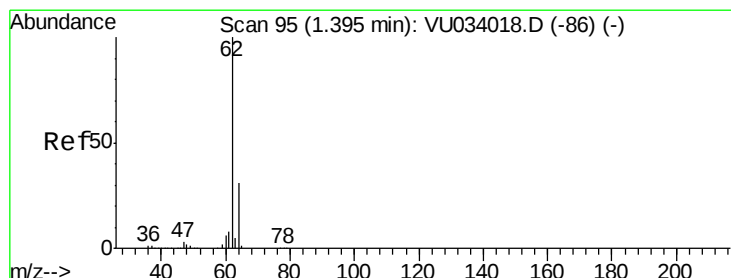
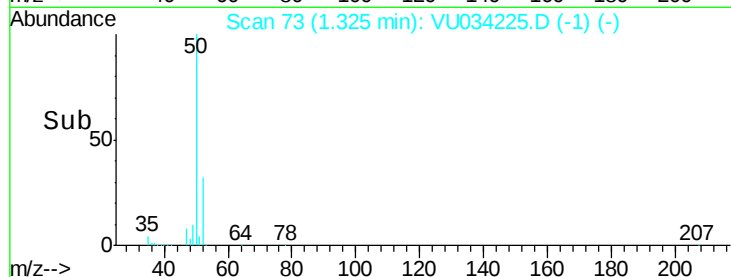
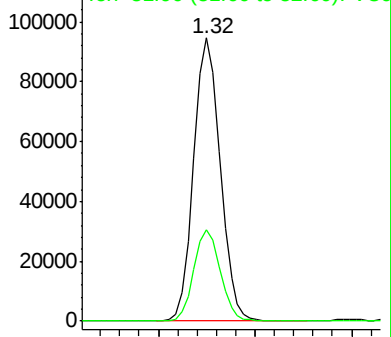
MMDadoda

9/4/2019 4:57:58 PM



Abundance Ion 49.90 (49.60 to 50.60): VU0

Ion 51.90 (51.60 to 52.60): VU0



#4

Vinyl Chloride

Concen: 17.972 ug/l

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU034225.D

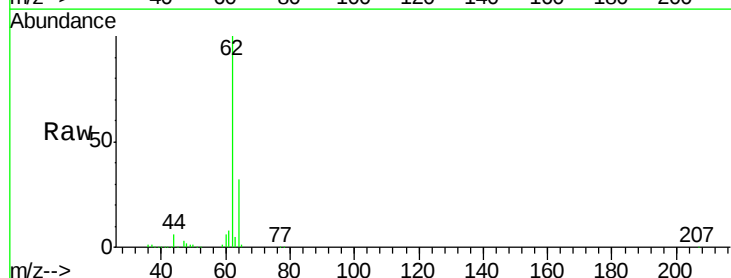
Acq: 03 Sep 2019 14:38

Tgt Ion: 62 Resp: 91650

Ion Ratio Lower Upper

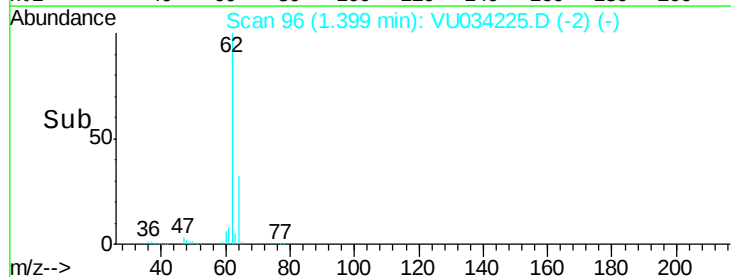
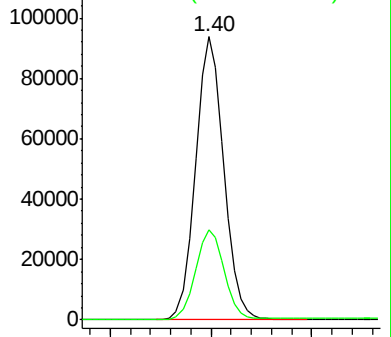
62 100

64 31.8 25.0 37.6



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0





#5

Bromomethane

Concen: 17.543 ug/l

RT: 1.62 min Scan# 165

Delta R.T. 0.02 min

Lab File: VU034225.D

Acq: 03 Sep 2019 14:38

Instrument :

MSVOA_U

ClientSampleId :

VU0904WBSD01

Tot Ion: 94 Resp: 52318

Ion Ratio Lower Upper

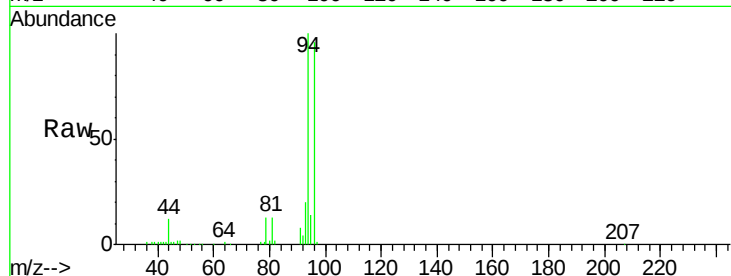
94 100

96 95.7 76.3 114.5

Manual Integrations
APPROVED

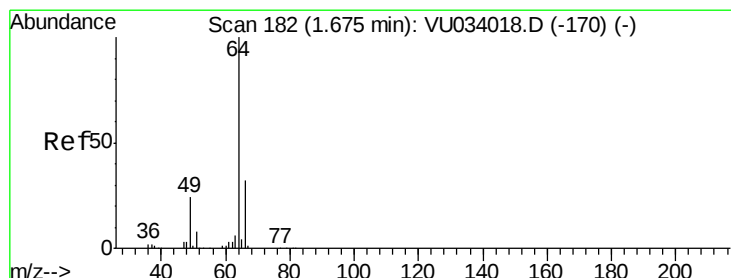
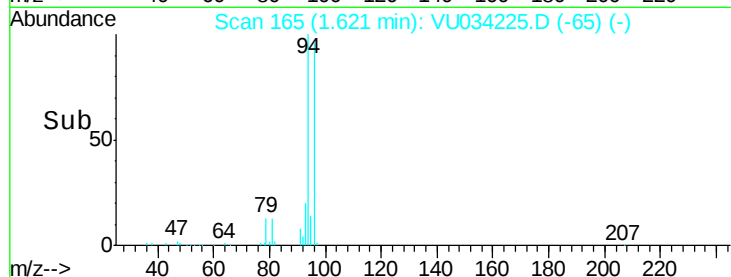
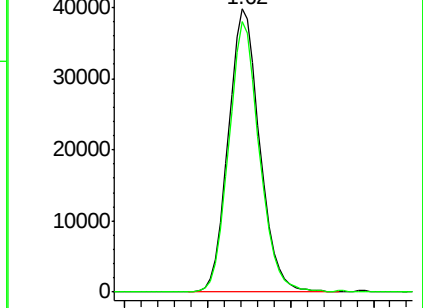
MMDadoda

9/4/2019 4:57:58 PM



Abundance Ion 93.90 (93.60 to 94.60): VU034018.D (-143) (-)

Ion 95.90 (95.60 to 96.60): VU034018.D (-143) (-)



#6

Chloroethane

Concen: 18.327 ug/l

RT: 1.69 min Scan# 188

Delta R.T. 0.02 min

Lab File: VU034225.D

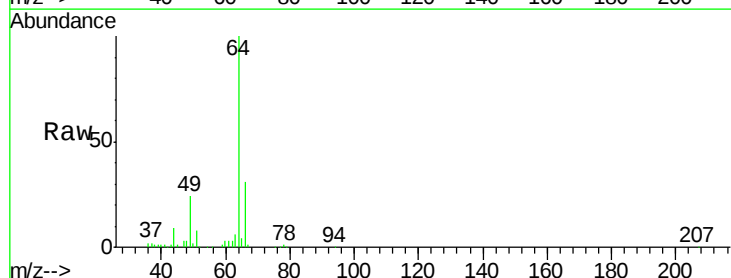
Acq: 03 Sep 2019 14:38

Tgt Ion: 64 Resp: 57138

Ion Ratio Lower Upper

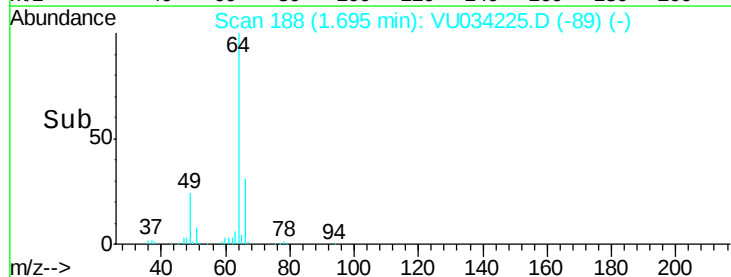
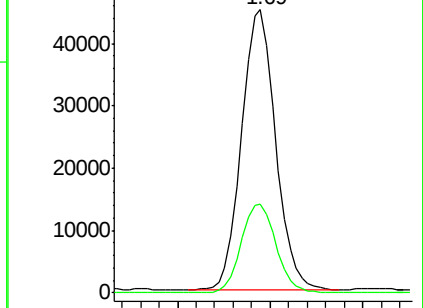
64 100

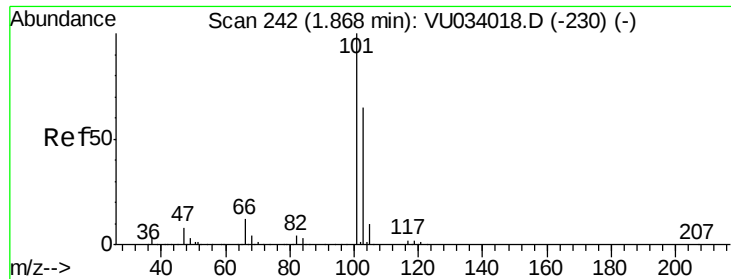
66 31.6 25.5 38.3



Abundance Ion 63.90 (63.60 to 64.60): VU034018.D (-170) (-)

Ion 65.90 (65.60 to 66.60): VU034018.D (-170) (-)





#7

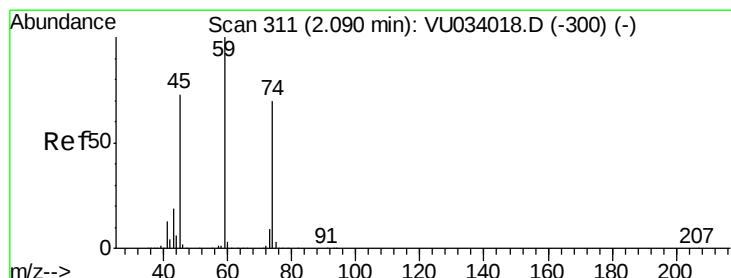
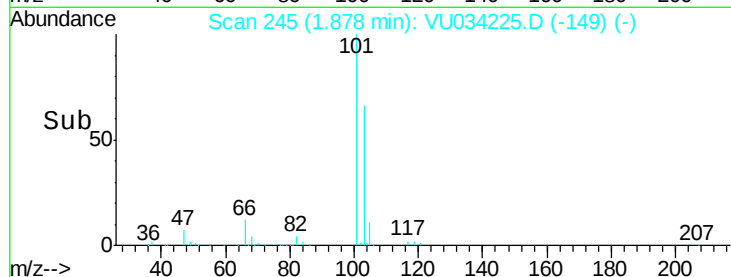
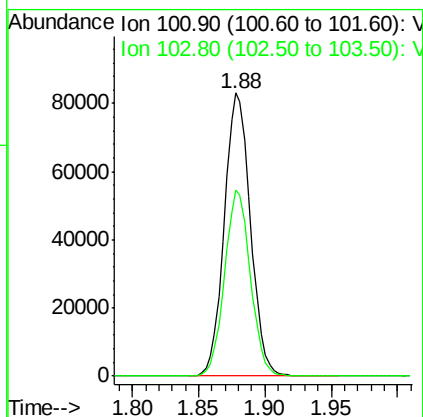
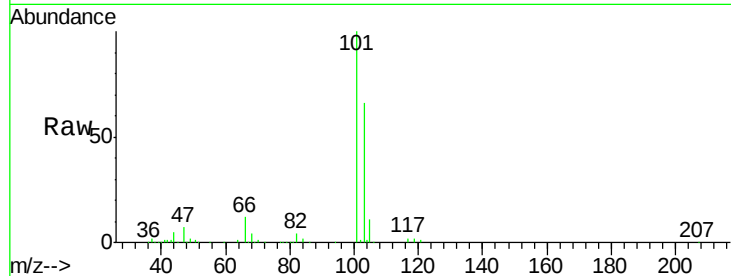
Trichlorofluoromethane
 Concen: 19.243 ug/l
 RT: 1.88 min Scan# 245
 Delta R.T. 0.01 min
 Lab File: VU034225.D
 Acq: 03 Sep 2019 14:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0904WBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.7	52.1	78.1

Manual Integrations
 APPROVED

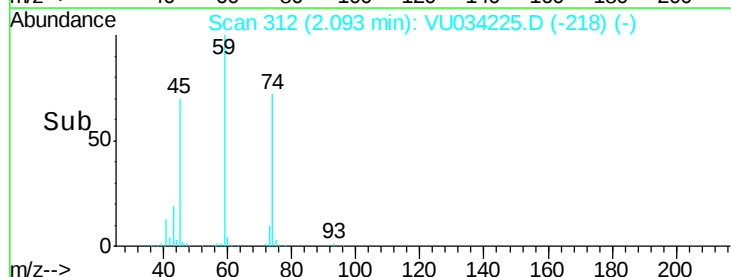
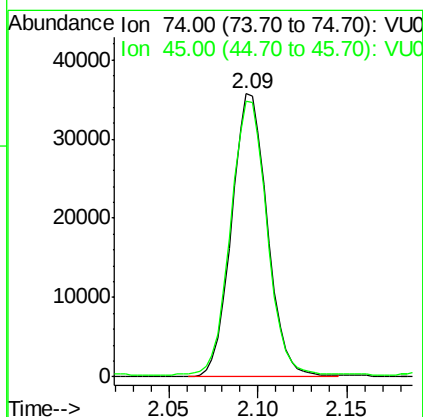
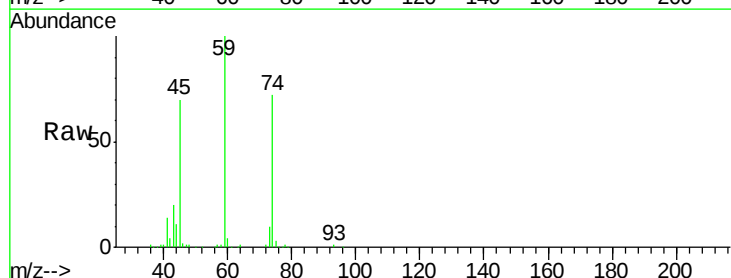
MMDadoda
 9/4/2019 4:57:58 PM

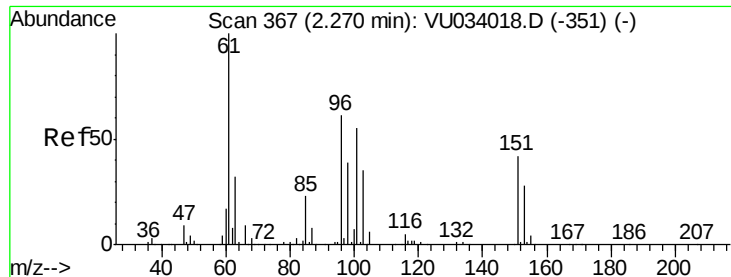


#8

Diethyl Ether
 Concen: 19.733 ug/l
 RT: 2.09 min Scan# 312
 Delta R.T. 0.00 min
 Lab File: VU034225.D
 Acq: 03 Sep 2019 14:38

Tgt Ion	Ratio	Lower	Upper
74	100		
45	97.9	51.8	155.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.298 ug/l

RT: 2.28 min Scan# 369

Delta R.T. 0.01 min

Lab File: VU034225.D

Acq: 03 Sep 2019 14:38

Instrument :

MSVOA_U

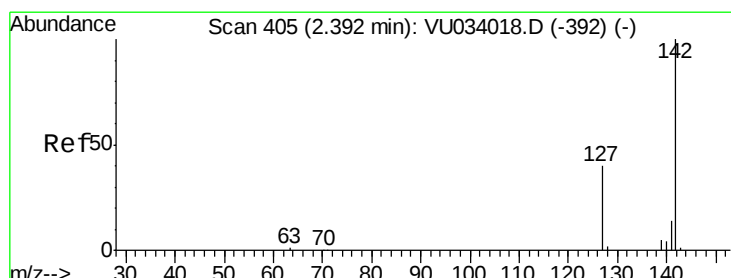
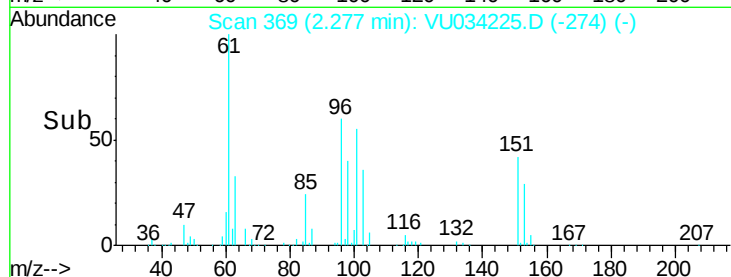
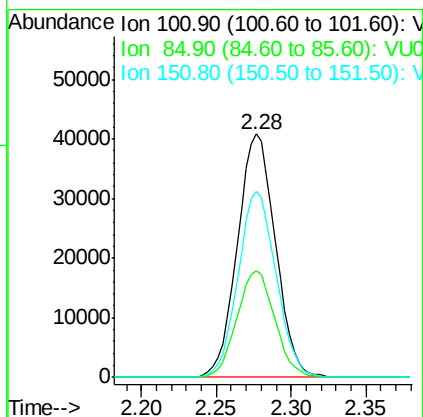
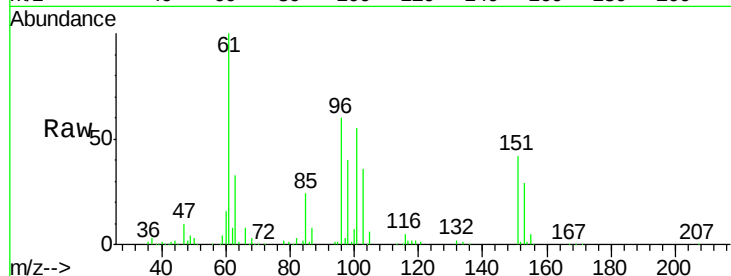
ClientSampleId :

VU0904WBSD01

Tot Ion:	101	Resp:	72237
Ion Ratio	Lower	Upper	
101	100		
85	43.5	34.2	51.2
151	76.5	61.4	92.2

Manual Integrations
APPROVED

MMDadoda
9/4/2019 4:57:58 PM



#10

Methyl Iodide

Concen: 10.423 ug/l

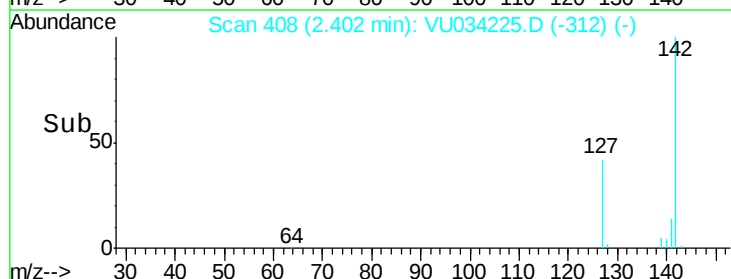
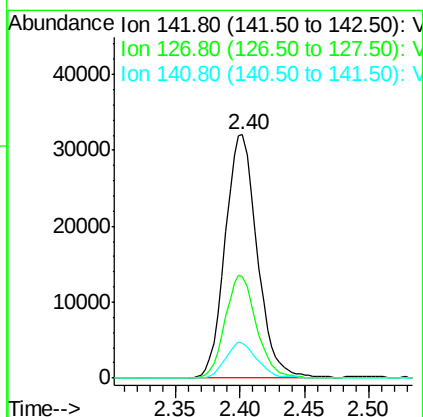
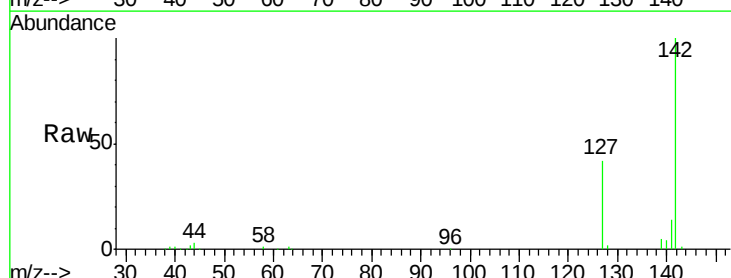
RT: 2.40 min Scan# 408

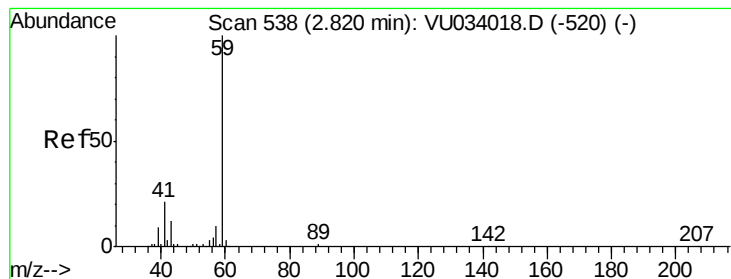
Delta R.T. 0.01 min

Lab File: VU034225.D

Acq: 03 Sep 2019 14:38

Tgt Ion:	142	Resp:	55348
Ion Ratio	Lower	Upper	
142	100		
127	41.0	32.6	48.8
141	14.3	11.3	16.9





#11

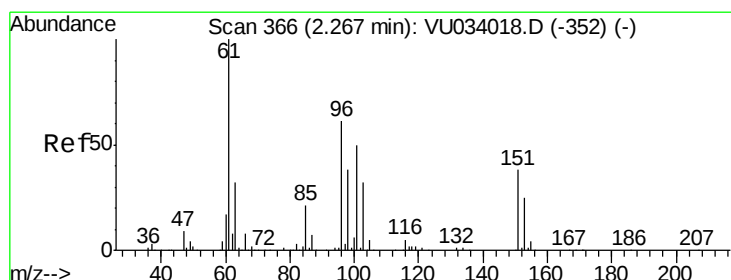
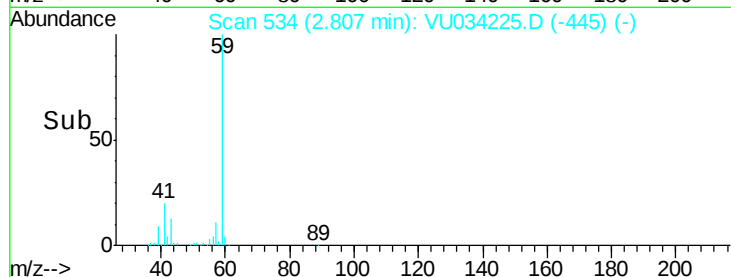
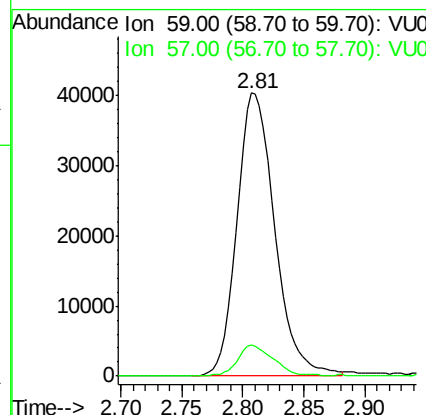
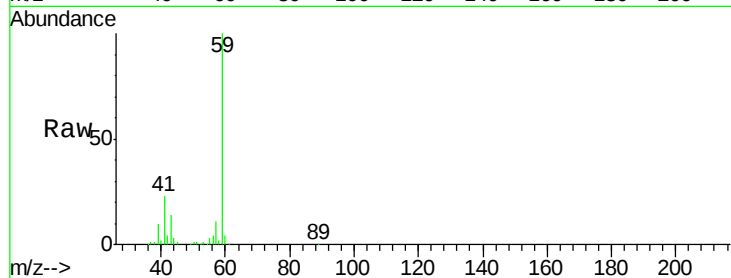
Tert butyl alcohol
 Concen: 77.037 ug/l
 RT: 2.81 min Scan# 534
 Delta R.T. -0.01 min
 Lab File: VU034225.D
 Acq: 03 Sep 2019 14:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0904WBSD01

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.5	8.0	12.0

Manual Integrations
 APPROVED

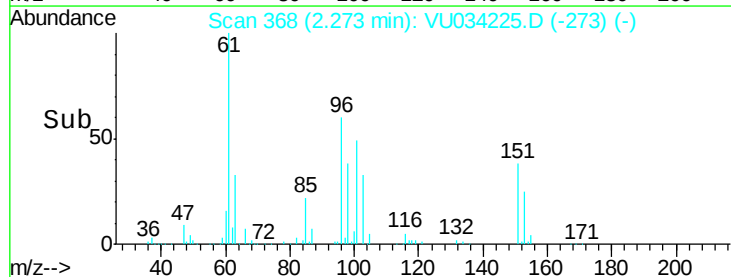
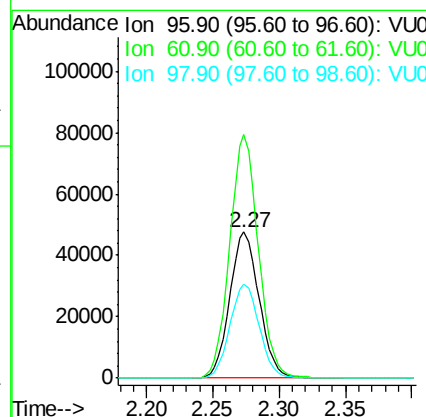
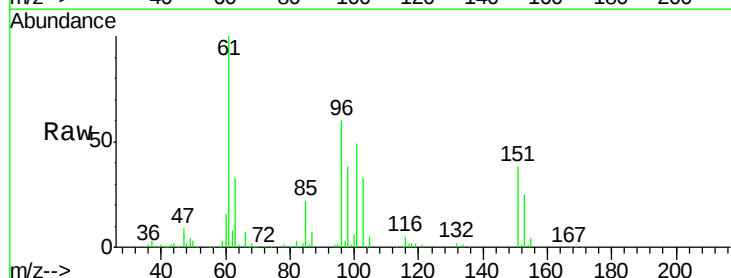
MMDadoda
 9/4/2019 4:57:58 PM

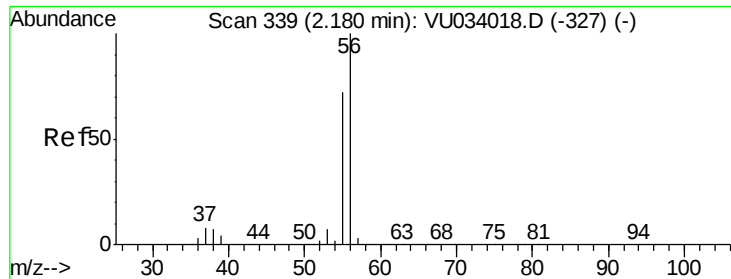


#12

1,1-Dichloroethene
 Concen: 19.242 ug/l
 RT: 2.27 min Scan# 368
 Delta R.T. 0.01 min
 Lab File: VU034225.D
 Acq: 03 Sep 2019 14:38

Tgt Ion	Ratio	Lower	Upper
96	100		
61	167.1	131.3	196.9
98	64.3	50.3	75.5





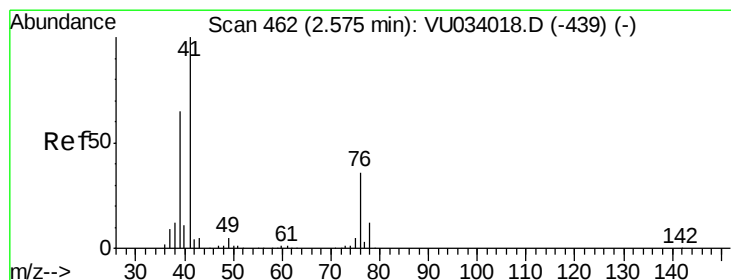
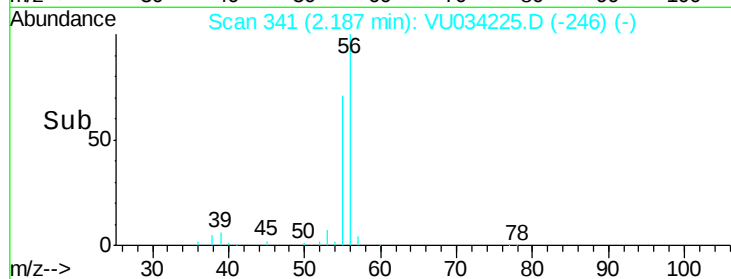
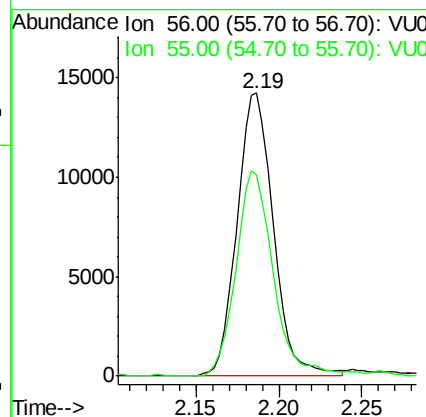
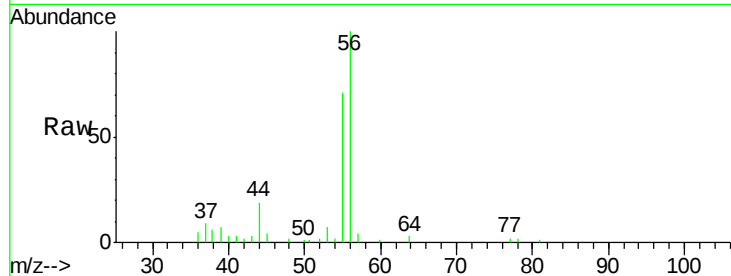
#13
 Acrolein
 Concen: 45.914 ug/l
 RT: 2.19 min Scan# 341
 Delta R.T. 0.01 min
 Lab File: VU034225.D
 Acq: 03 Sep 2019 14:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0904WBSD01

Tot Ion	Ion	Ratio	Lower	Upper
56	100			
55	73.8	57.1	85.7	

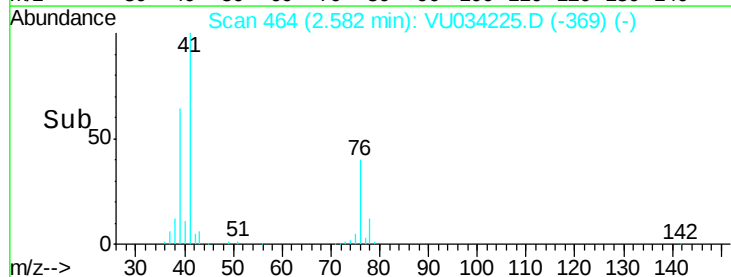
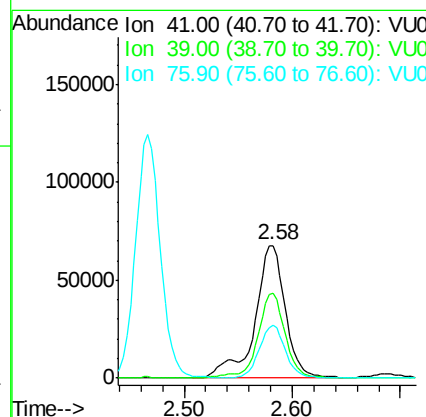
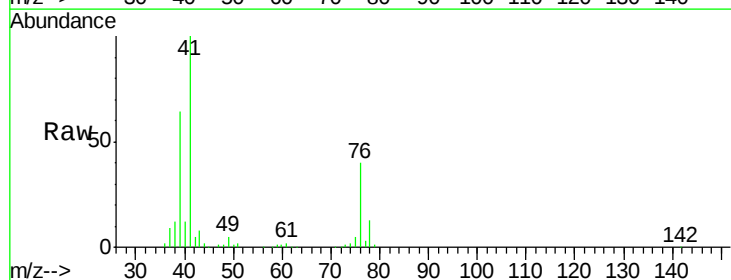
Manual Integrations
 APPROVED

MMDadoda
 9/4/2019 4:57:58 PM



#14
 Allyl chloride
 Concen: 18.543 ug/l m
 RT: 2.58 min Scan# 464
 Delta R.T. 0.01 min
 Lab File: VU034225.D
 Acq: 03 Sep 2019 14:38

Tgt Ion	Ion	Ratio	Lower	Upper
41	100			
39	57.1	46.8	70.2	
76	33.5	26.6	40.0	





#15

Acrylonitrile

Concen: 96.893 ug/l

RT: 2.92 min Scan# 569

Delta R.T. 0.00 min

Lab File: VU034225.D

Acq: 03 Sep 2019 14:38

Instrument :

MSVOA_U

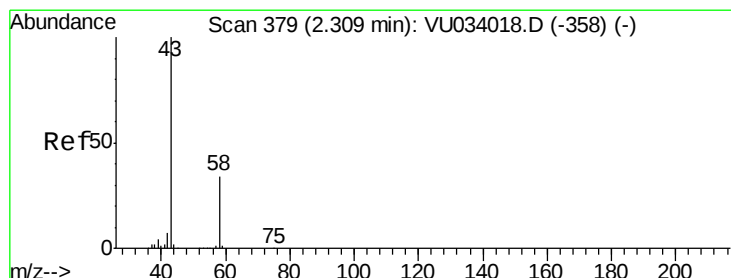
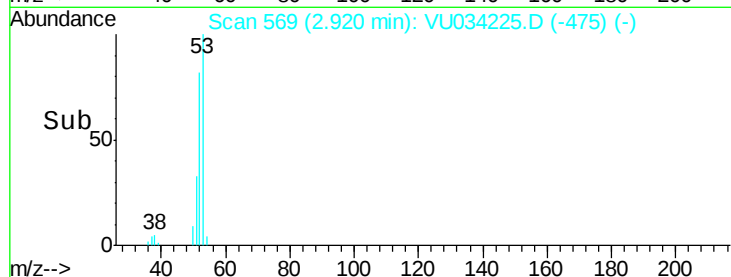
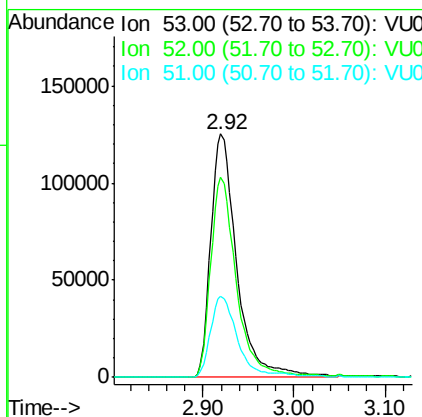
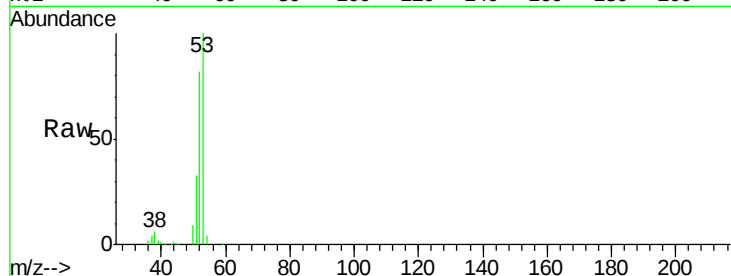
ClientSampleId :

VU0904WBSD01

Tot Ion:	53	Resp:	250290
Ion Ratio		Lower	Upper
53	100		
52	80.6	65.7	98.5
51	35.2	27.9	41.9

Manual Integrations
APPROVED

MMDadoda
9/4/2019 4:57:58 PM



#16

Acetone

Concen: 83.043 ug/l

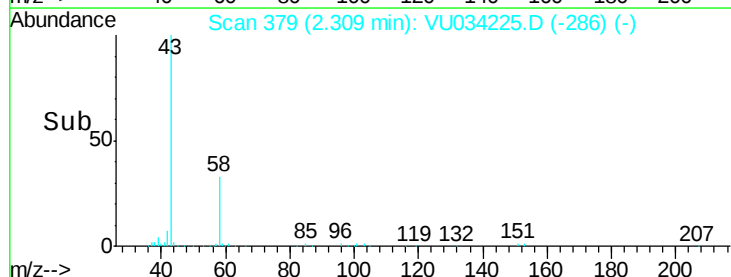
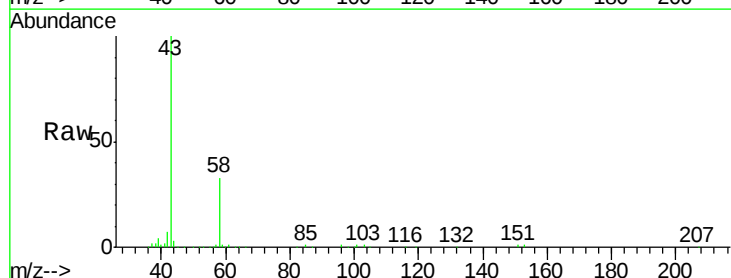
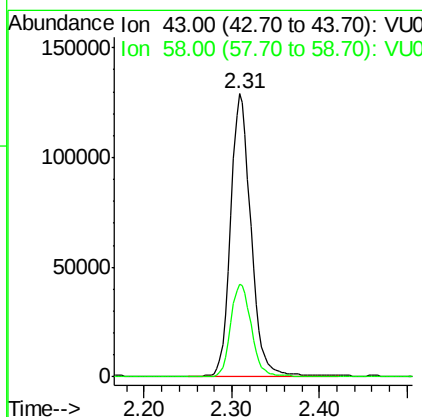
RT: 2.31 min Scan# 379

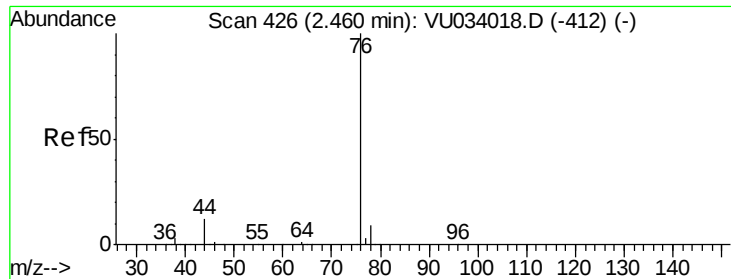
Delta R.T. 0.00 min

Lab File: VU034225.D

Acq: 03 Sep 2019 14:38

Tgt Ion:	43	Resp:	206844
Ion Ratio		Lower	Upper
43	100		
58	32.7	26.8	40.2





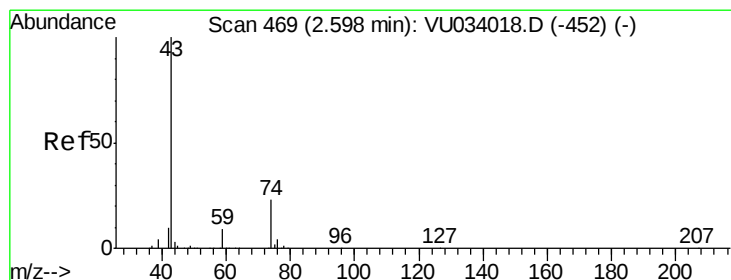
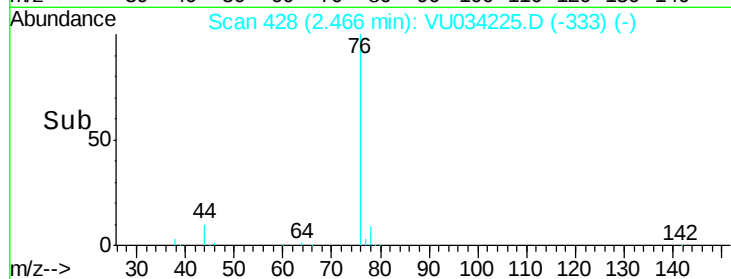
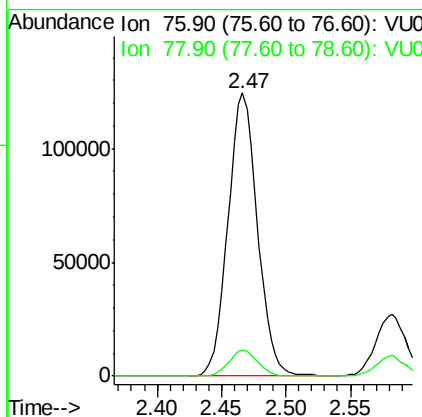
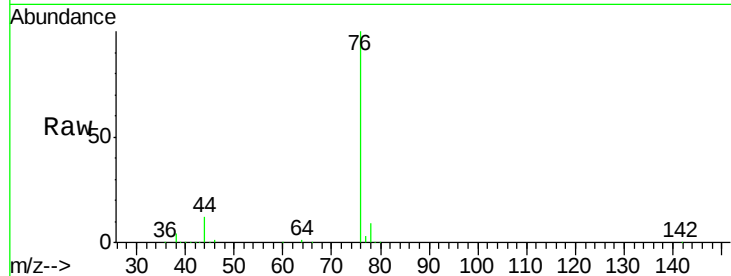
#17
Carbon Disulfide
Concen: 16.387 ug/l
RT: 2.47 min Scan# 428
Delta R.T. 0.01 min
Lab File: VU034225.D
Acq: 03 Sep 2019 14:38

Instrument :
MSVOA_U
ClientSampleId :
VU0904WBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.1	10.7

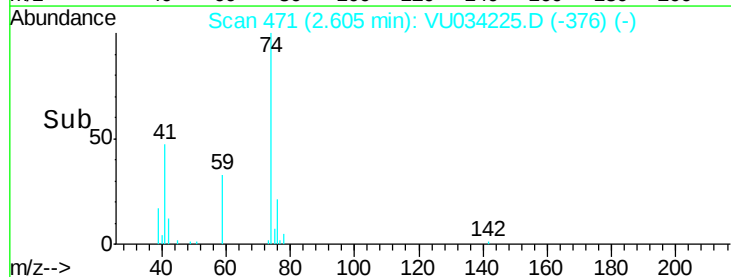
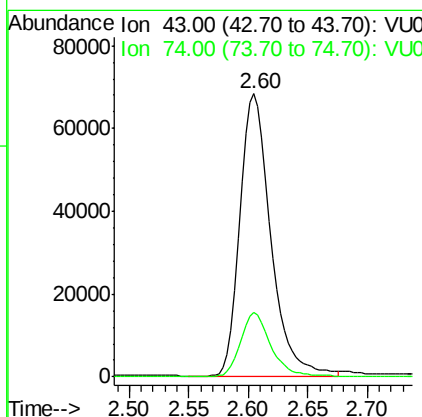
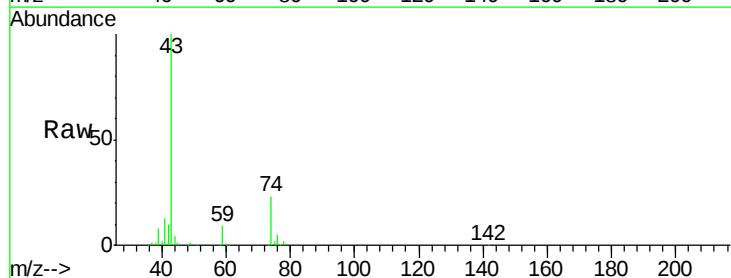
Manual Integrations
APPROVED

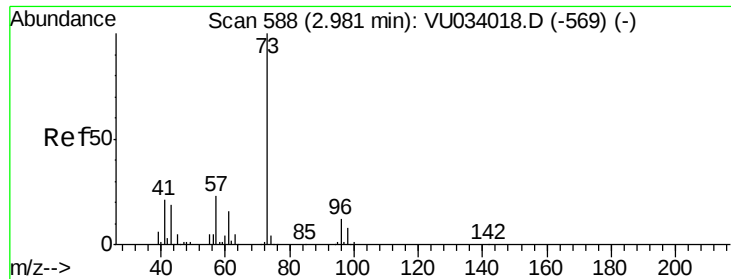
MMDadoda
9/4/2019 4:57:58 PM



#18
Methyl Acetate
Concen: 19.076 ug/l
RT: 2.60 min Scan# 471
Delta R.T. 0.01 min
Lab File: VU034225.D
Acq: 03 Sep 2019 14:38

Tgt Ion	Ratio	Lower	Upper
43	100		
74	22.8	19.2	28.8





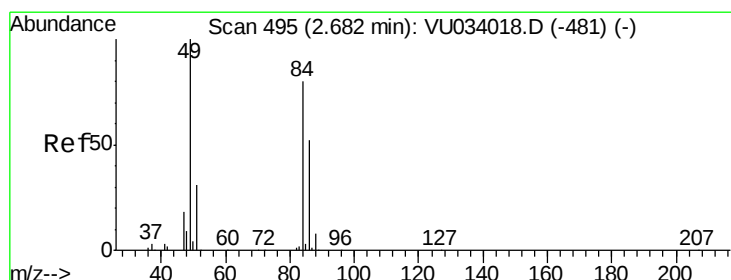
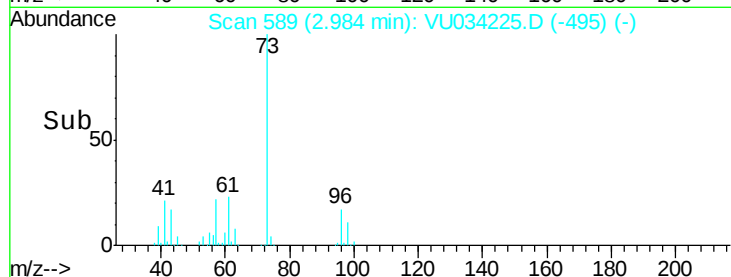
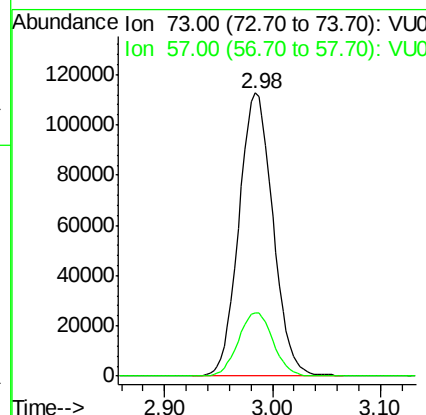
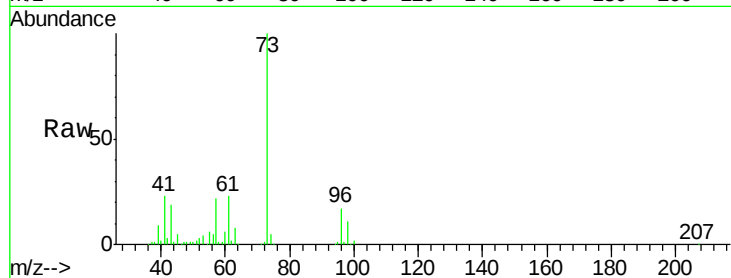
#19
Methvl tert-butvl Ether
Concen: 19.835 ug/l
RT: 2.98 min Scan# 589
Delta R.T. 0.00 min
Lab File: VU034225.D
Acq: 03 Sep 2019 14:38

Instrument :
MSVOA_U
ClientSampleId :
VU0904WBSD01

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.4	18.3	27.5

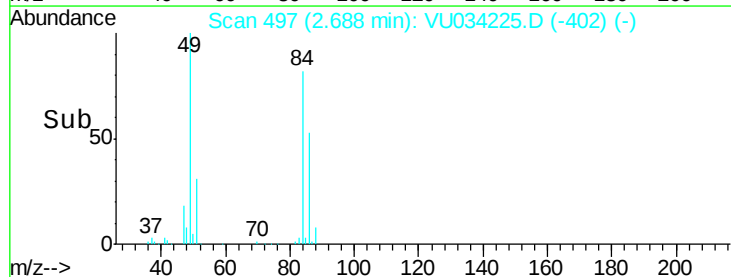
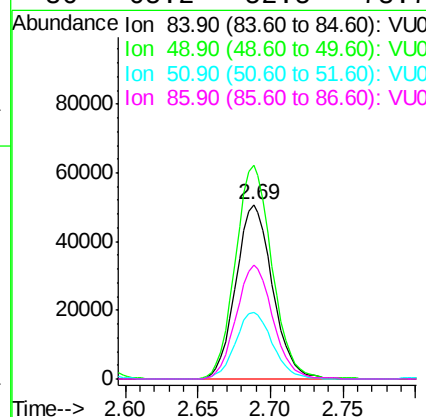
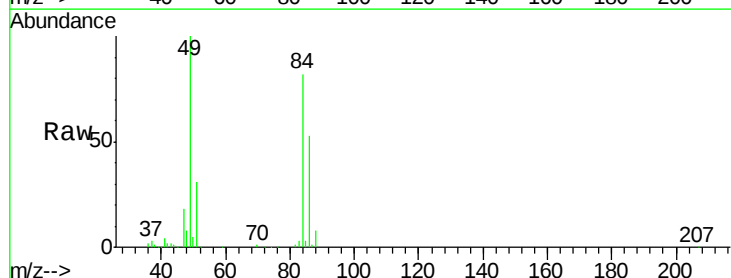
Manual Integrations
APPROVED

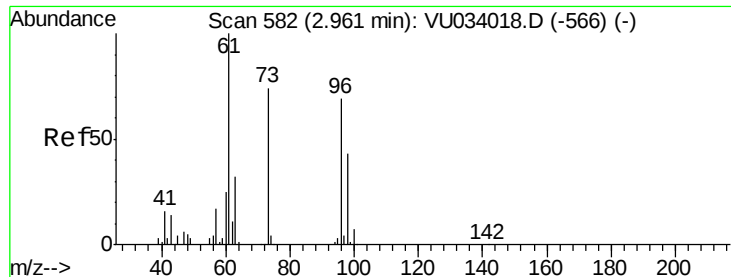
MMDadoda
9/4/2019 4:57:58 PM



#20
Methylene Chloride
Concen: 18.920 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.01 min
Lab File: VU034225.D
Acq: 03 Sep 2019 14:38

Tgt Ion	Ratio	Lower	Upper
84	100		
49	122.7	100.2	150.4
51	38.4	30.8	46.2
86	65.2	52.5	78.7





#21

trans-1,2-Dichloroethene

Concen: 19.340 ug/l

RT: 2.97 min Scan# 584

Delta R.T. 0.01 min

Lab File: VU034225.D

Acq: 03 Sep 2019 14:38

Instrument :

MSVOA_U

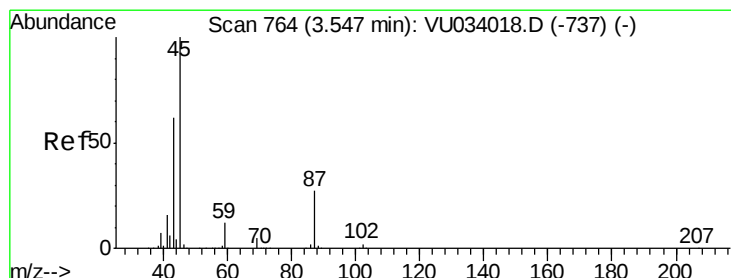
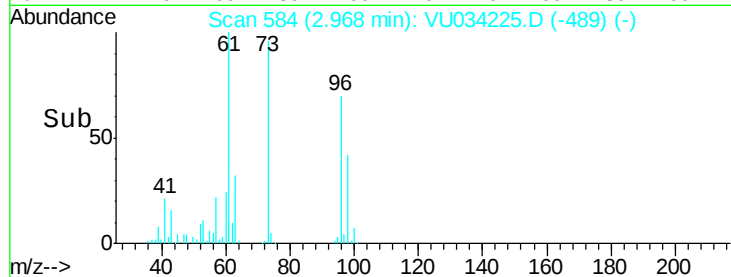
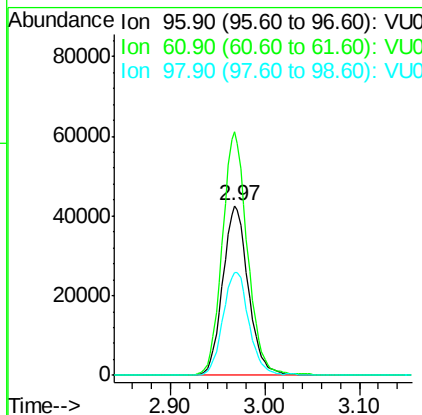
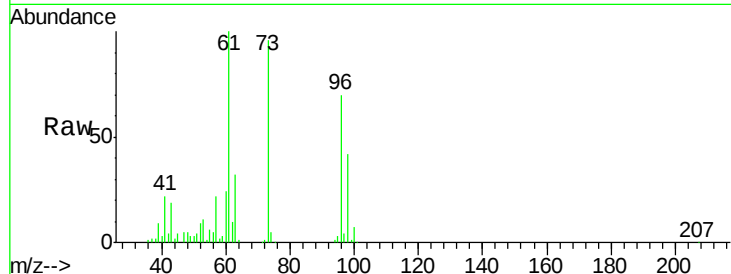
ClientSampleId :

VU0904WBSD01

Tot Ion:	96	Resp:	80054
Ion	Ratio	Lower	Upper
96	100		
61	143.7	115.5	173.3
98	60.8	50.1	75.1

Manual Integrations
APPROVED

MMDadoda
9/4/2019 4:57:58 PM



#22

Diisopropyl ether

Concen: 20.317 ug/l

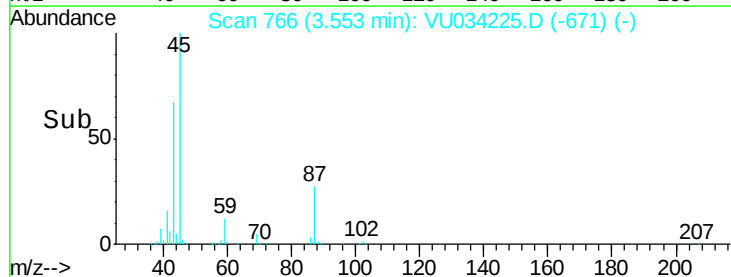
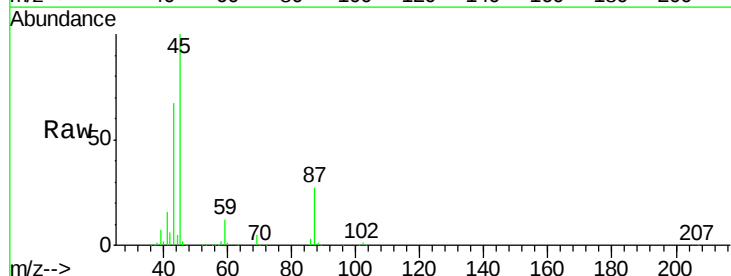
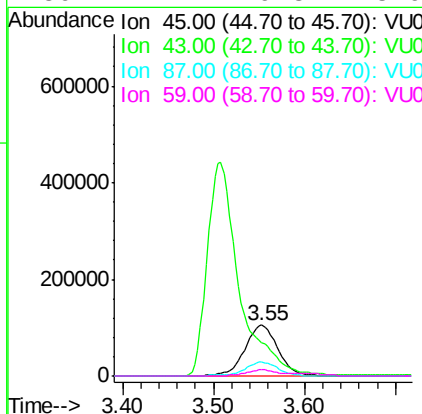
RT: 3.55 min Scan# 766

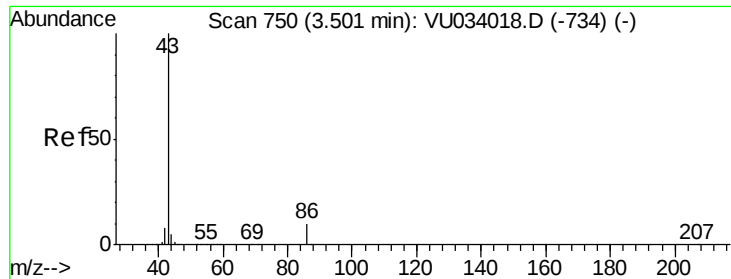
Delta R.T. 0.01 min

Lab File: VU034225.D

Acq: 03 Sep 2019 14:38

Tgt Ion:	45	Resp:	266964
Ion	Ratio	Lower	Upper
45	100		
43	65.0	49.7	74.5
87	27.0	21.8	32.8
59	11.7	9.3	13.9





#23

Vinyl Acetate

Concen: 96.547 ug/l

RT: 3.51 min Scan# 752

Delta R.T. 0.01 min

Lab File: VU034225.D

Acq: 03 Sep 2019 14:38

Instrument :

MSVOA_U

ClientSampleId :

VU0904WBSD01

Tot Ion: 43 Resp: 1089786

Ion Ratio Lower Upper

43 100

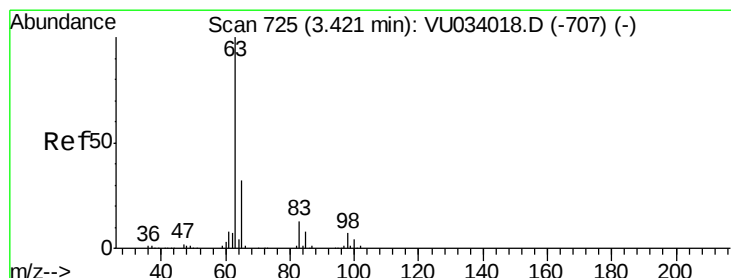
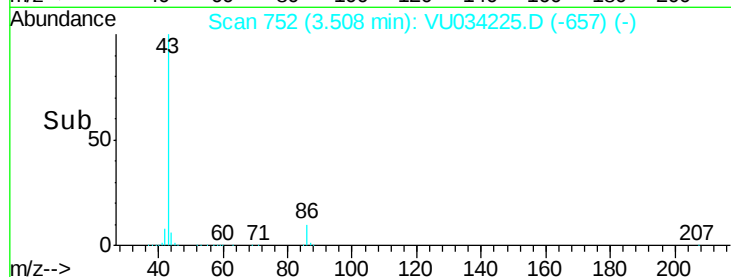
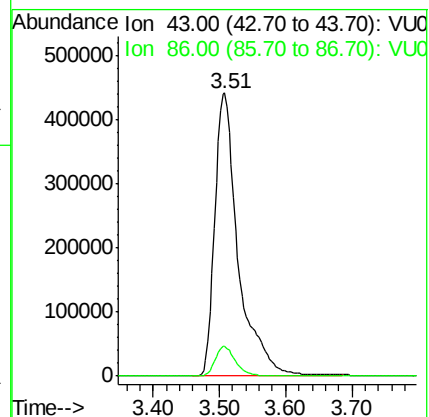
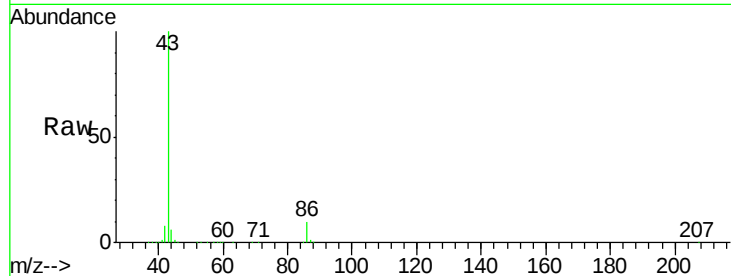
86 10.4 8.3 12.5

Manual Integrations

APPROVED

MMDadoda

9/4/2019 4:57:58 PM



#24

1,1-Dichloroethane

Concen: 19.782 ug/l

RT: 3.43 min Scan# 727

Delta R.T. 0.01 min

Lab File: VU034225.D

Acq: 03 Sep 2019 14:38

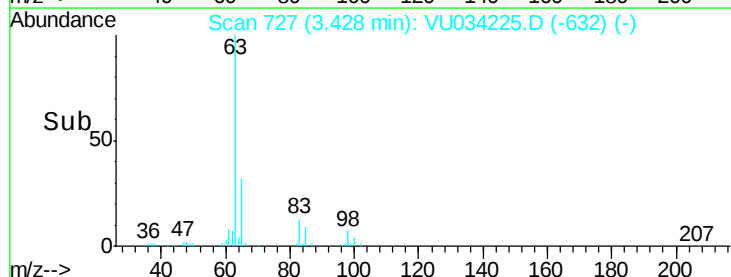
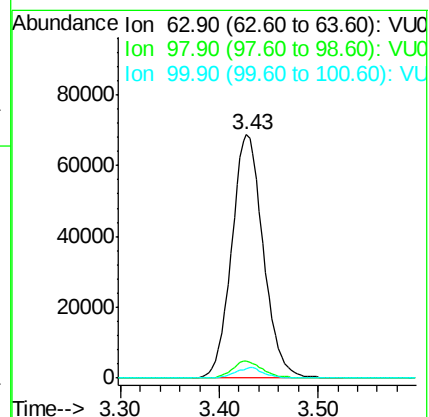
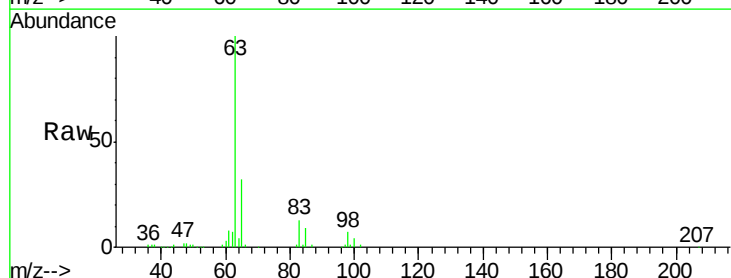
Tgt Ion: 63 Resp: 153464

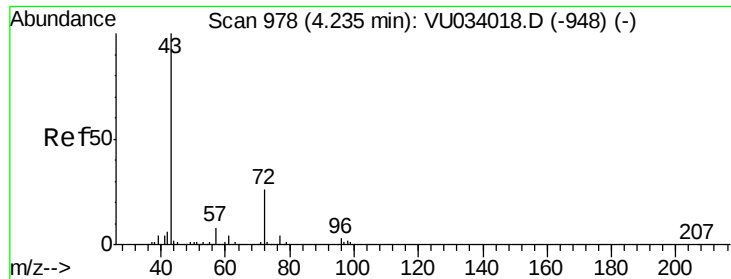
Ion Ratio Lower Upper

63 100

98 6.9 3.3 9.8

100 3.9 2.0 6.0





#25

2-Butanone

Concen: 92.691 ug/l

RT: 4.24 min Scan# 980

Delta R.T. 0.01 min

Lab File: VU034225.D

Acq: 03 Sep 2019 14:38

Instrument :

MSVOA_U

ClientSampleId :

VU0904WBSD01

Tot Ion: 43 Resp: 321207

Ion Ratio Lower Upper

43 100

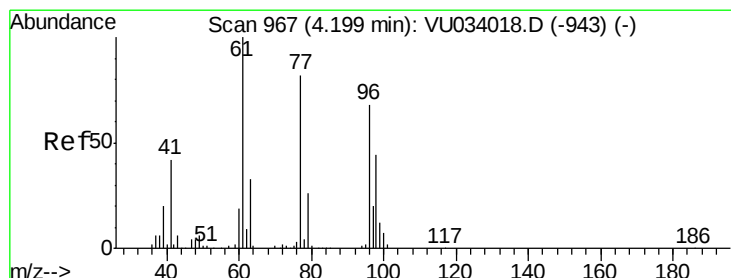
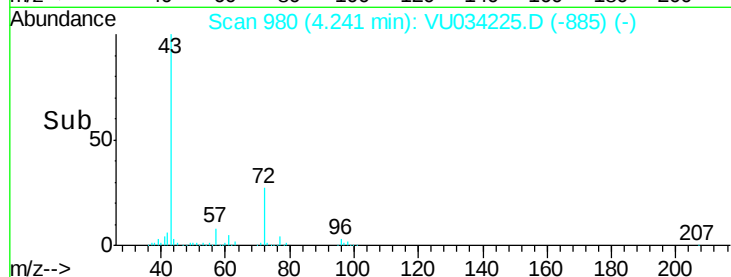
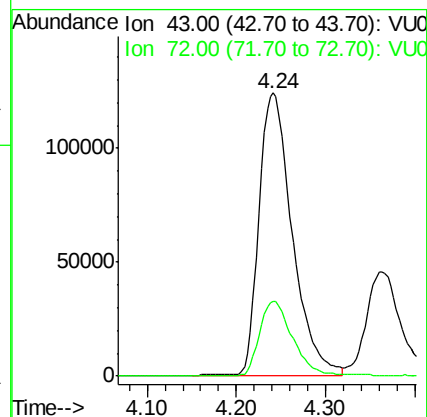
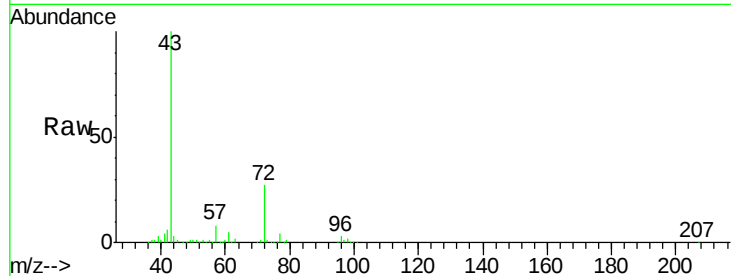
72 26.6 21.2 31.8

Manual Integrations

APPROVED

MMDadoda

9/4/2019 4:57:58 PM



#26

2,2-Dichloropropane

Concen: 18.036 ug/l

RT: 4.21 min Scan# 969

Delta R.T. 0.01 min

Lab File: VU034225.D

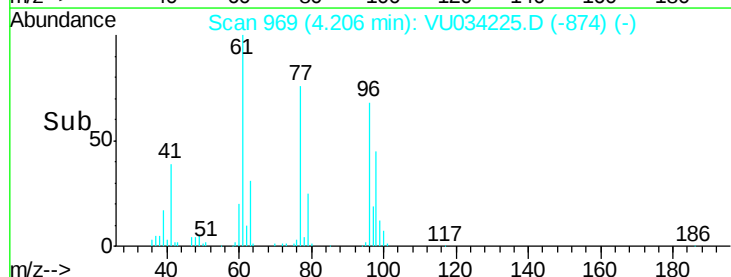
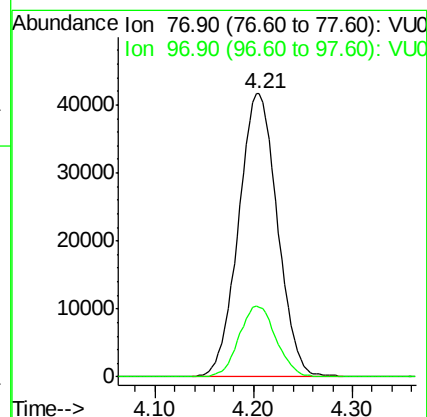
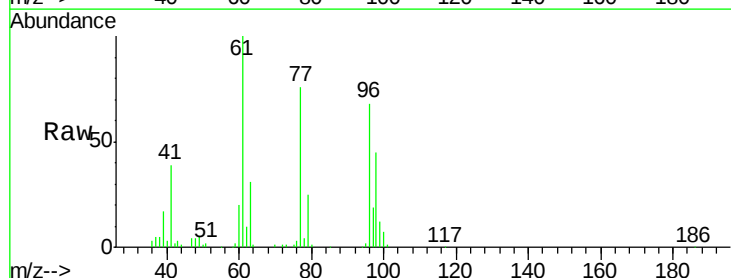
Acq: 03 Sep 2019 14:38

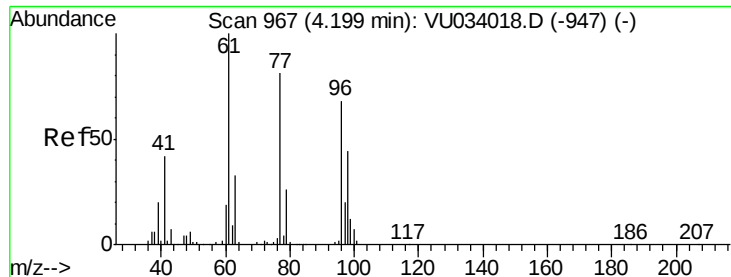
Tgt Ion: 77 Resp: 113854

Ion Ratio Lower Upper

77 100

97 23.8 11.6 34.7





#27

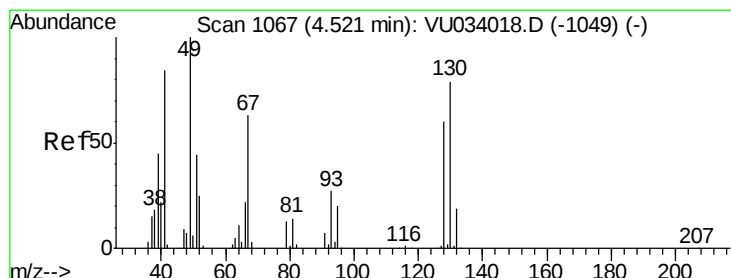
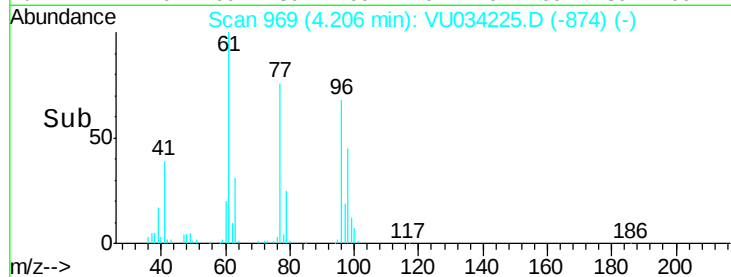
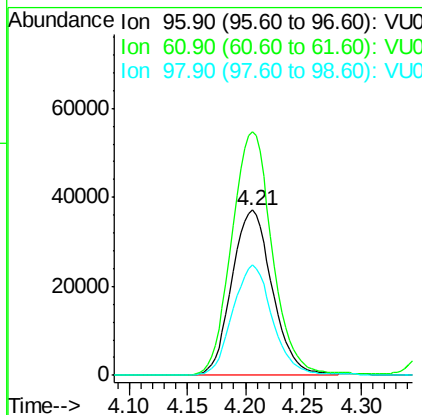
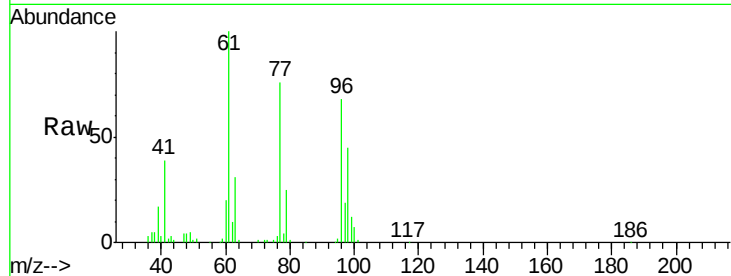
cis-1,2-Dichloroethene
 Concen: 19.376 ug/l
 RT: 4.21 min Scan# 969
 Delta R.T. 0.01 min
 Lab File: VU034225.D
 Acq: 03 Sep 2019 14:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0904WBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	148.3	0.0	303.0
98	65.5	0.0	129.2

Manual Integrations
 APPROVED

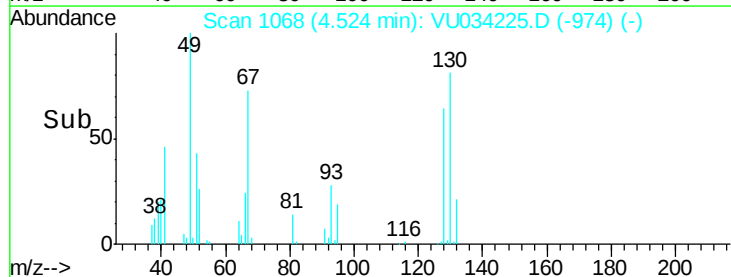
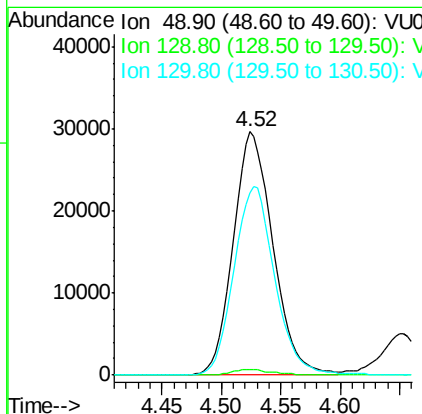
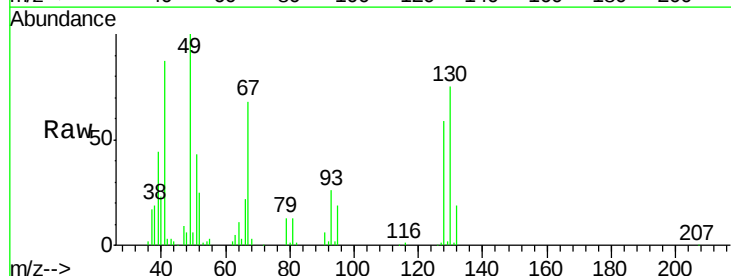
MMDadoda
 9/4/2019 4:57:58 PM

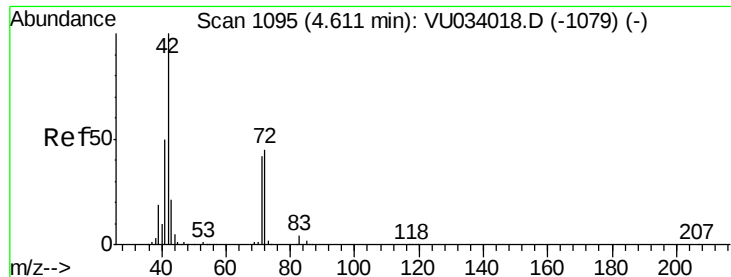


#28

Bromochloromethane
 Concen: 17.940 ug/l
 RT: 4.52 min Scan# 1068
 Delta R.T. 0.00 min
 Lab File: VU034225.D
 Acq: 03 Sep 2019 14:38

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	3.6
130	79.4	62.8	94.2





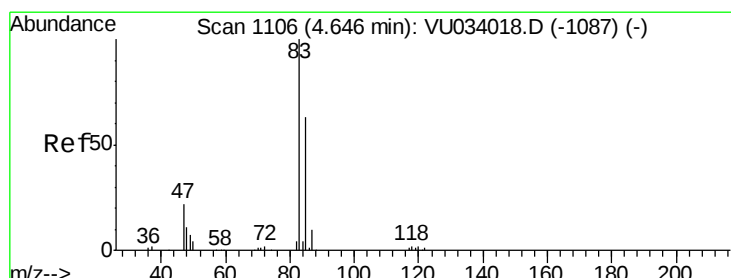
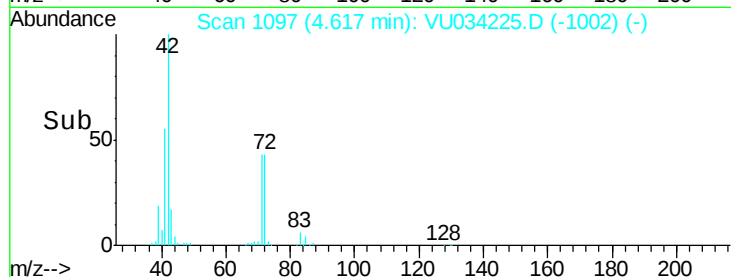
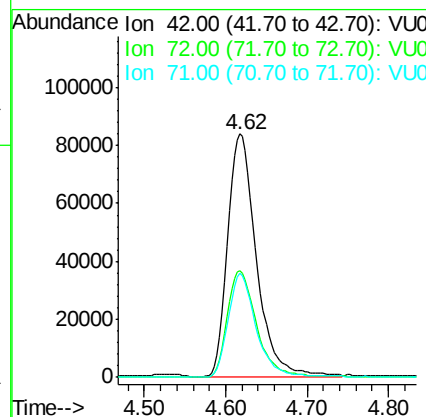
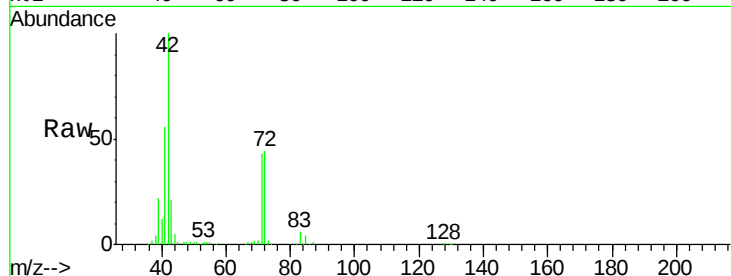
#29
Tetrahydrofuran
Concen: 97.160 ug/l
RT: 4.62 min Scan# 1097
Delta R.T. 0.01 min
Lab File: VU034225.D
Acq: 03 Sep 2019 14:38

Instrument :
MSVOA_U
ClientSampleId :
VU0904WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.8	35.8	53.6
71	41.6	34.0	51.0

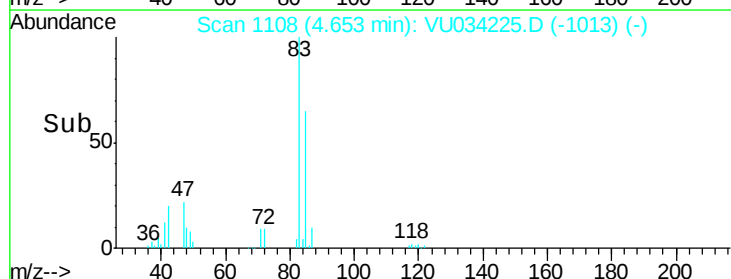
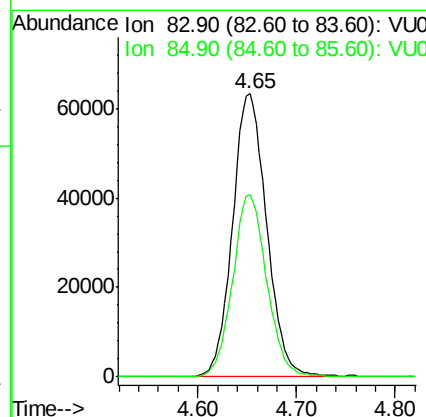
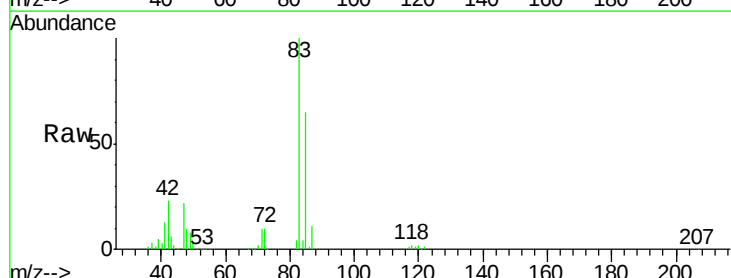
Manual Integrations
APPROVED

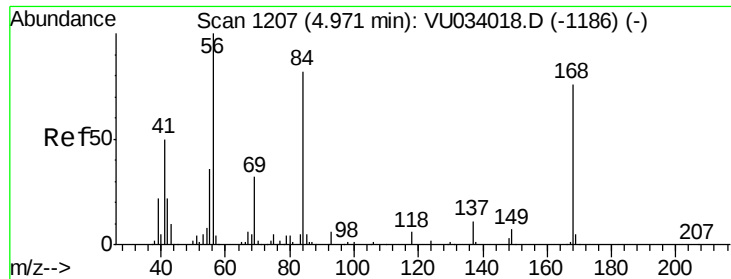
MMDadoda
9/4/2019 4:57:58 PM



#30
Chloroform
Concen: 19.697 ug/l
RT: 4.65 min Scan# 1108
Delta R.T. 0.01 min
Lab File: VU034225.D
Acq: 03 Sep 2019 14:38

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.3	50.7	76.1





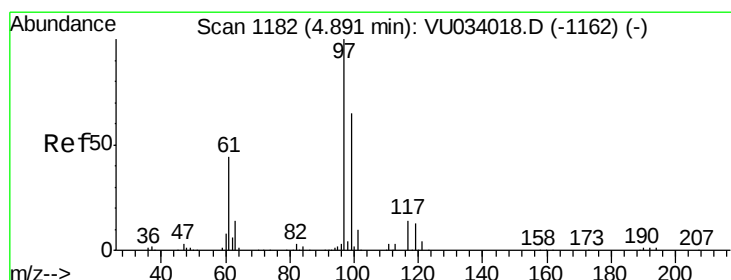
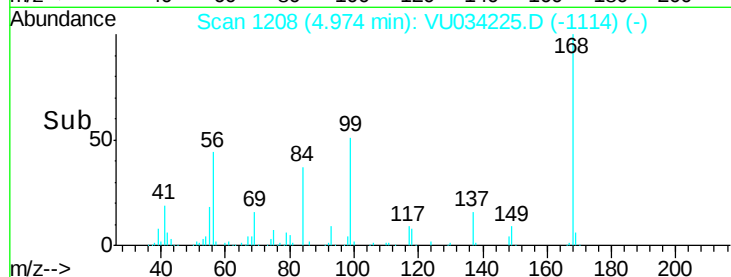
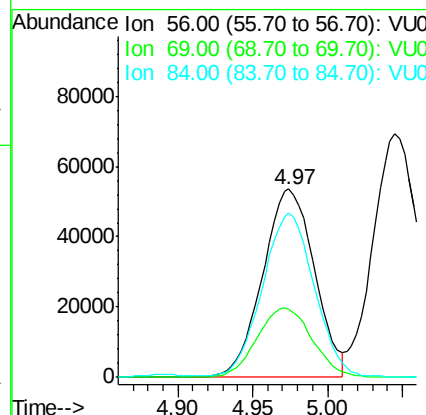
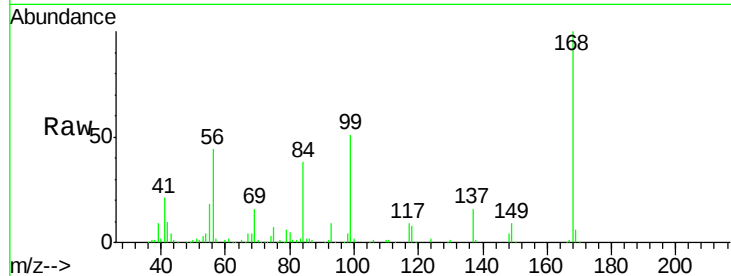
#31
Cyclohexane
Concen: 17.725 ug/l
RT: 4.97 min Scan# 1208
Delta R.T. 0.00 min
Lab File: VU034225.D
Acq: 03 Sep 2019 14:38

Instrument :
MSVOA_U
ClientSampleId :
VU0904WBSD01

Tot Ion	Ratio	Lower	Upper
56	100		
69	36.4	25.4	38.0
84	86.6	65.8	98.8

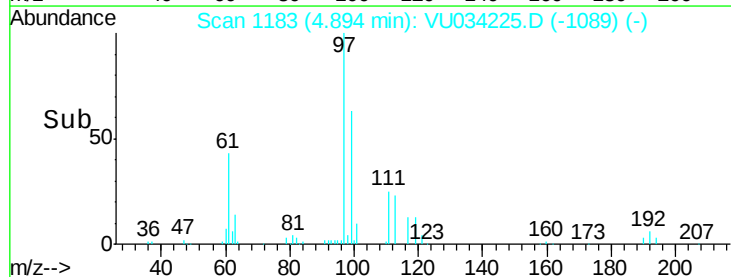
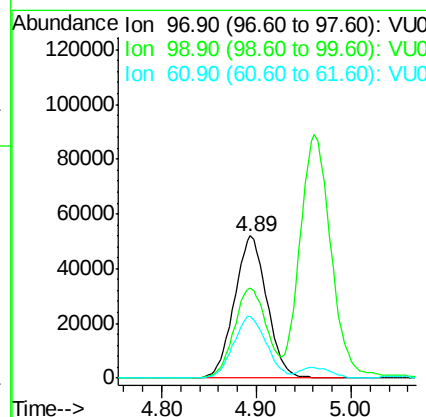
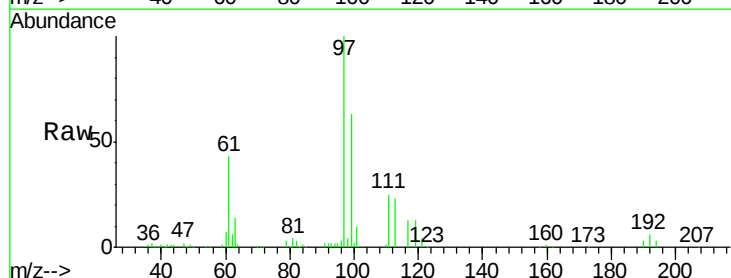
Manual Integrations
APPROVED

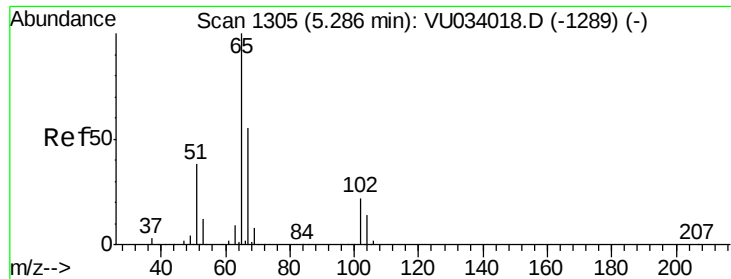
MMDadoda
9/4/2019 4:57:58 PM



#32
1,1,1-Trichloroethane
Concen: 19.602 ug/l
RT: 4.89 min Scan# 1183
Delta R.T. 0.00 min
Lab File: VU034225.D
Acq: 03 Sep 2019 14:38

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.5	51.8	77.6
61	43.9	35.3	52.9





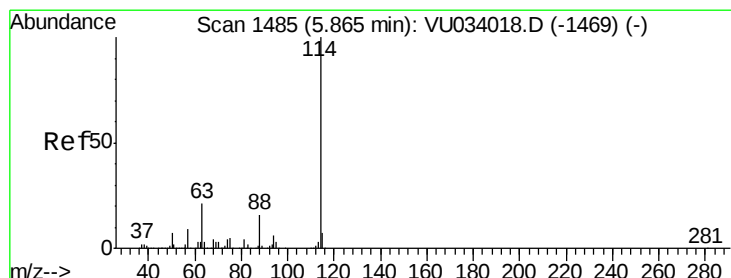
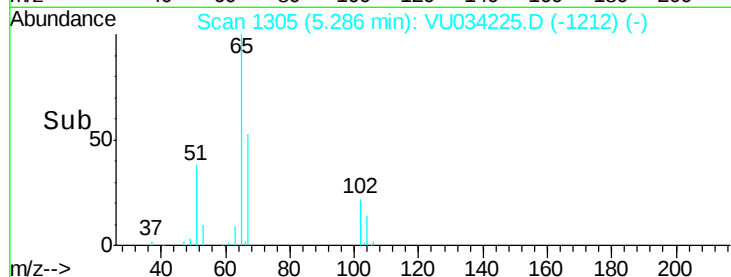
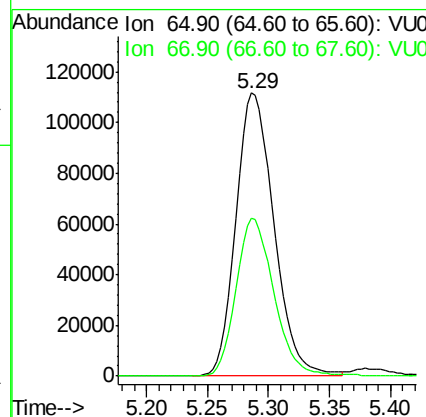
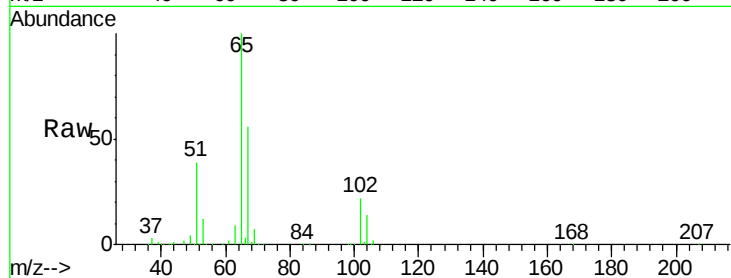
#33
 1,2-Dichloroethane-d4
 Concen: 49.607 ug/l
 RT: 5.29 min Scan# 1305
 Delta R.T. 0.00 min
 Lab File: VU034225.D
 Acq: 03 Sep 2019 14:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0904WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	242161		
67	55.6	0.0	110.6	

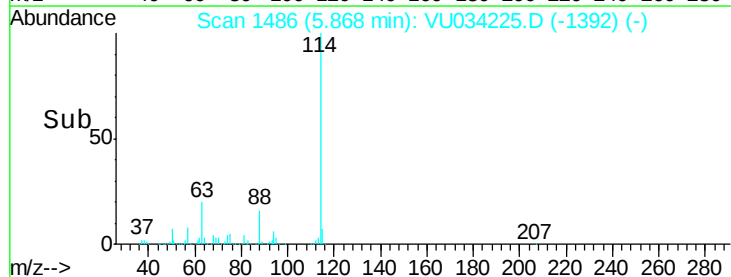
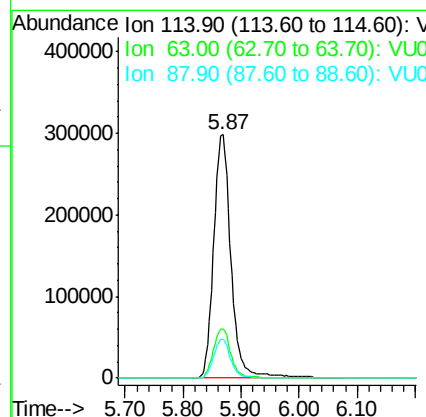
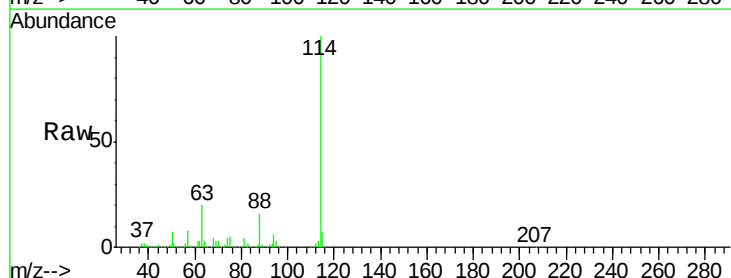
Manual Integrations
 APPROVED

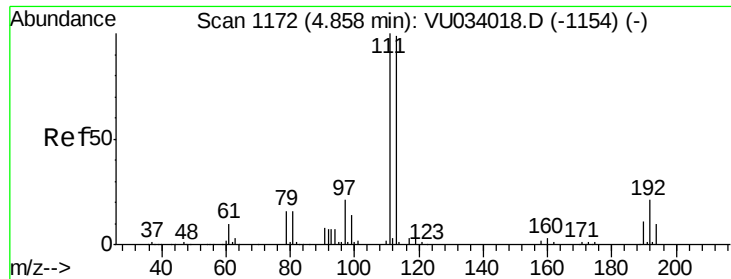
MMDadoda
 9/4/2019 4:57:58 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034225.D
 Acq: 03 Sep 2019 14:38

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	617701		
63	20.4	0.0	42.0	
88	16.0	0.0	32.0	





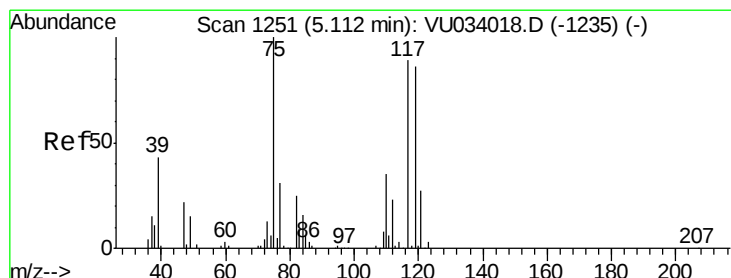
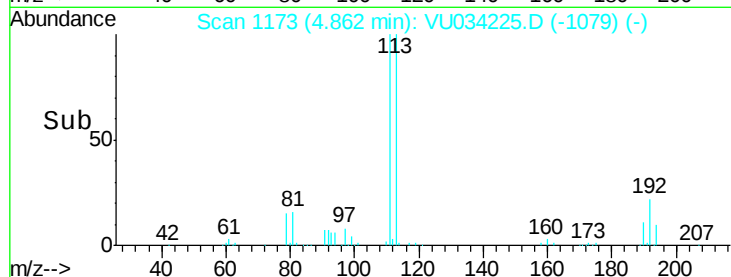
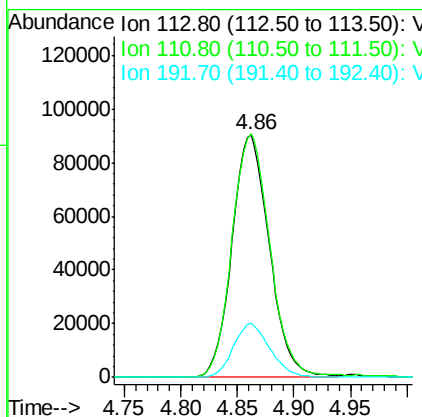
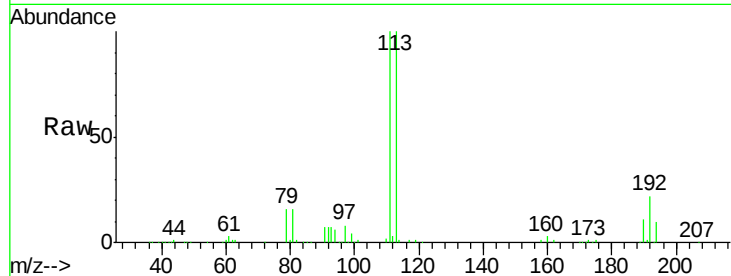
#35
 Dibromofluoromethane
 Concen: 48.537 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034225.D
 Acq: 03 Sep 2019 14:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0904WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	207948		
111	101.9		81.7	122.5
192	21.9		17.1	25.7

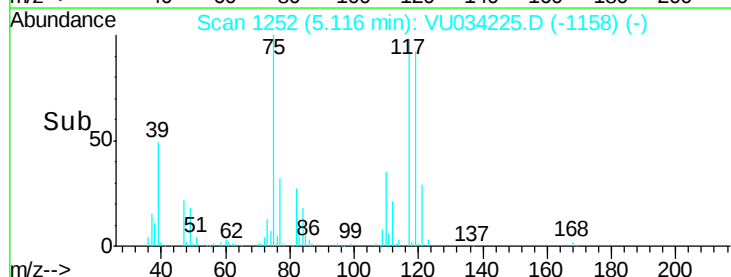
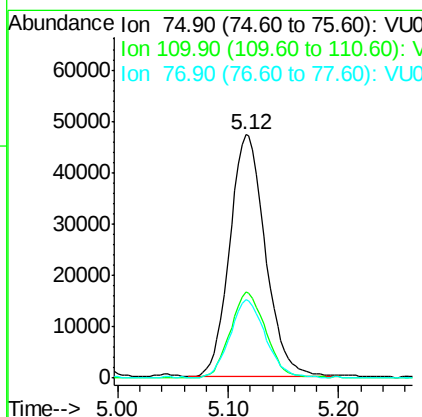
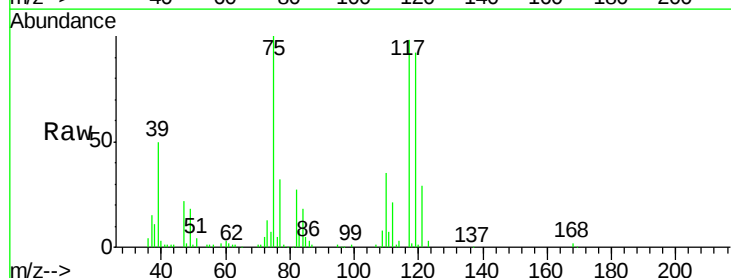
Manual Integrations
 APPROVED

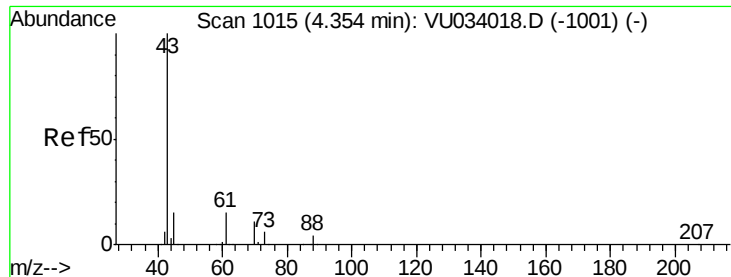
MMDadoda
 9/4/2019 4:57:58 PM



#36
 1,1-Dichloropropene
 Concen: 18.090 ug/l
 RT: 5.12 min Scan# 1252
 Delta R.T. 0.00 min
 Lab File: VU034225.D
 Acq: 03 Sep 2019 14:38

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	105693		
110	35.6		17.8	53.5
77	31.7		25.0	37.4





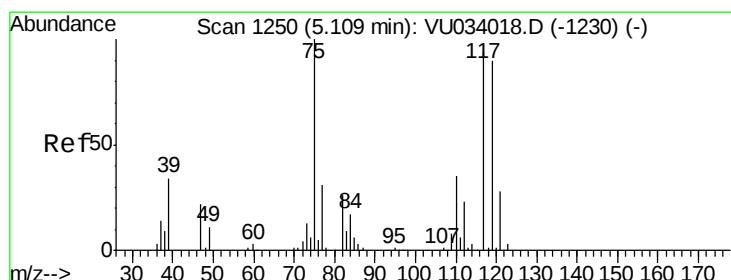
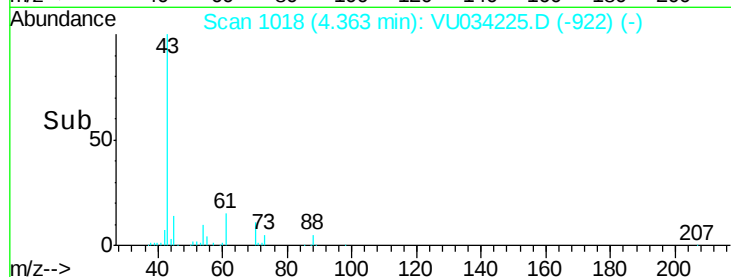
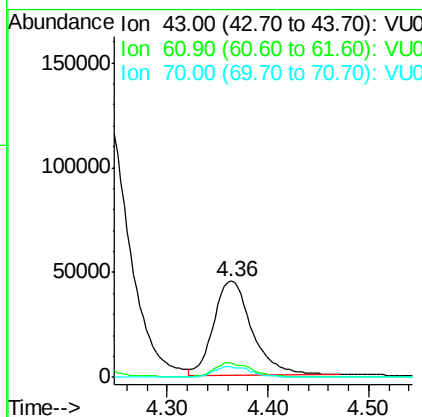
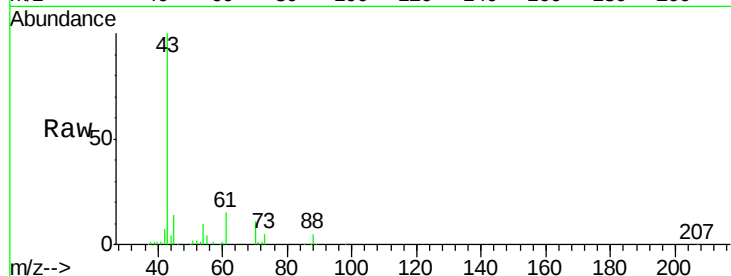
#37
Ethyl Acetate
Concen: 18.198 ug/l
RT: 4.36 min Scan# 1018
Delta R.T. 0.01 min
Lab File: VU034225.D
Acq: 03 Sep 2019 14:38

Instrument :
MSVOA_U
ClientSampleId :
VU0904WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.8	11.5	17.3
70	11.0	8.6	12.8

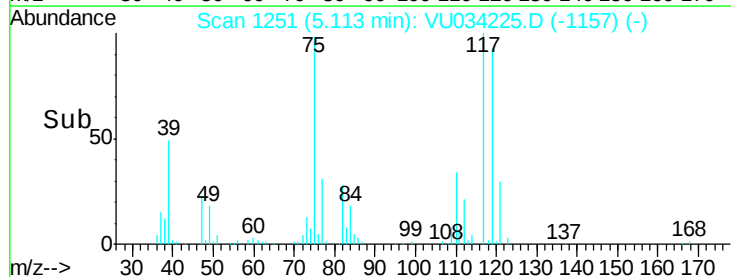
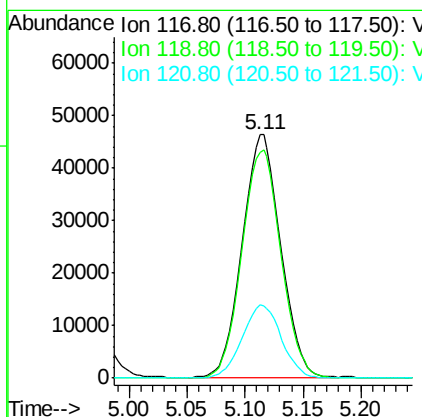
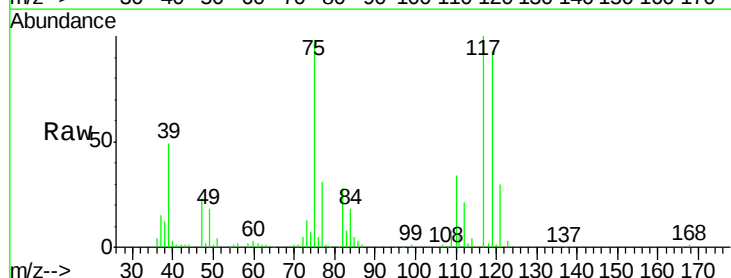
Manual Integrations
APPROVED

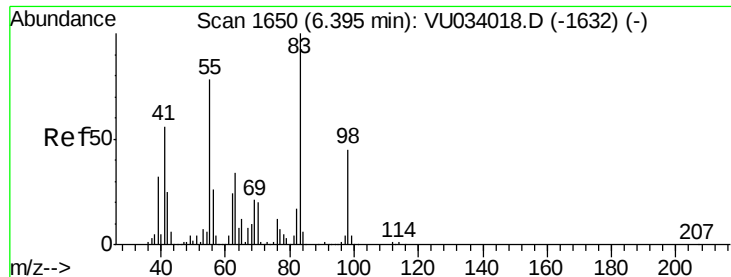
MMDadoda
9/4/2019 4:57:58 PM



#38
Carbon Tetrachloride
Concen: 18.845 ug/l
RT: 5.11 min Scan# 1251
Delta R.T. 0.00 min
Lab File: VU034225.D
Acq: 03 Sep 2019 14:38

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.2	77.0	115.4
121	30.0	23.9	35.9





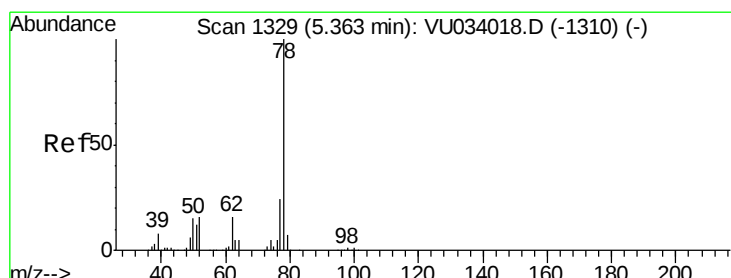
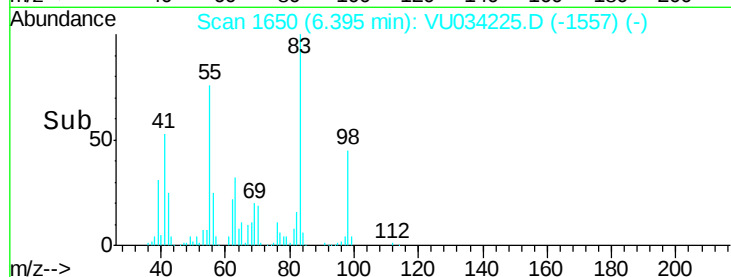
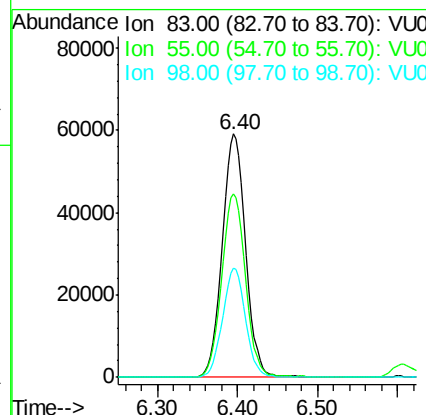
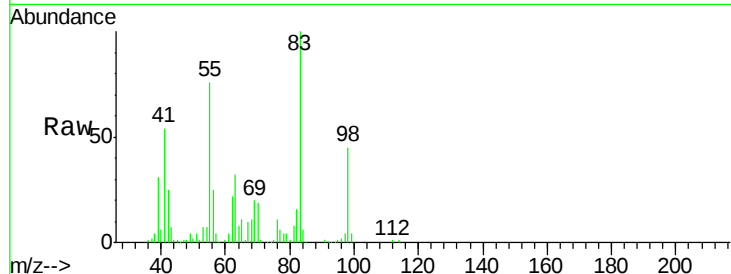
#39
Methvlcvclohexane
Concen: 17.451 ug/l
RT: 6.40 min Scan# 1650
Delta R.T. 0.00 min
Lab File: VU034225.D
Acq: 03 Sep 2019 14:38

Instrument :
MSVOA_U
ClientSampleId :
VU0904WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	120176		
55	75.5		62.3	93.5
98	44.6		36.2	54.2

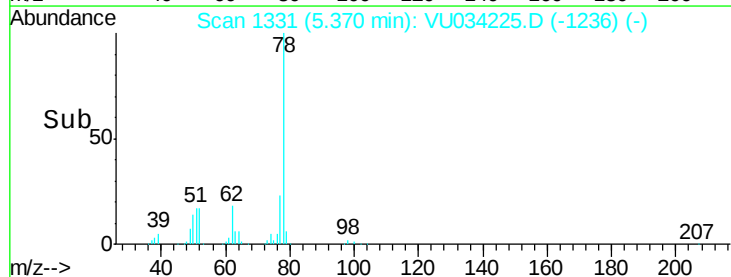
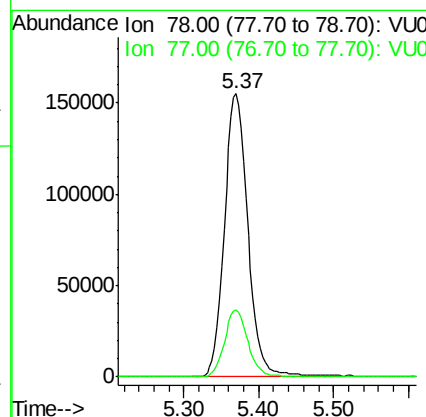
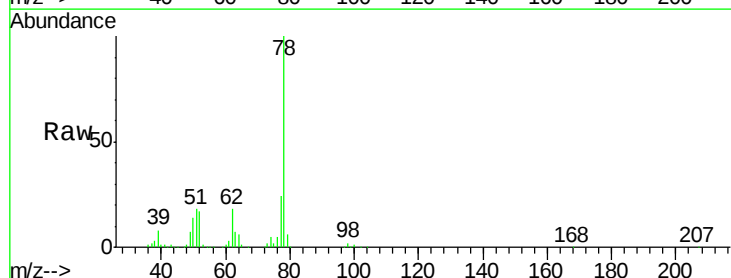
Manual Integrations
APPROVED

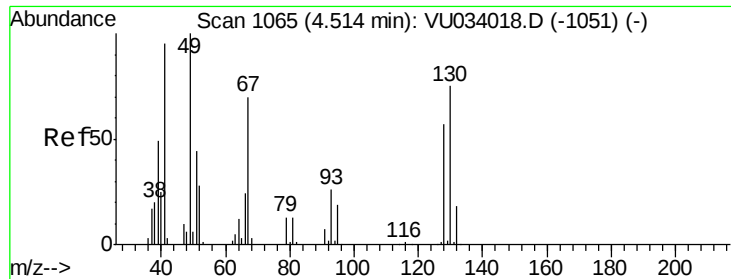
MMDadoda
9/4/2019 4:57:58 PM



#40
Benzene
Concen: 19.098 ug/l
RT: 5.37 min Scan# 1331
Delta R.T. 0.01 min
Lab File: VU034225.D
Acq: 03 Sep 2019 14:38

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	337607		
77	23.6		19.0	28.6





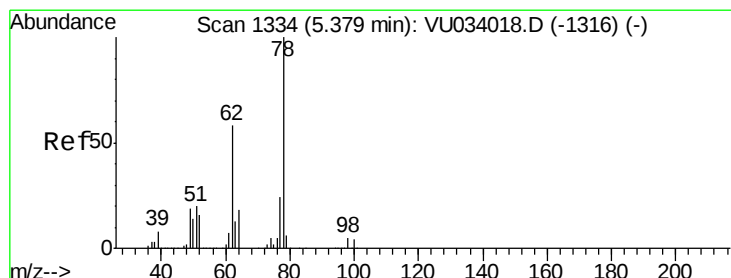
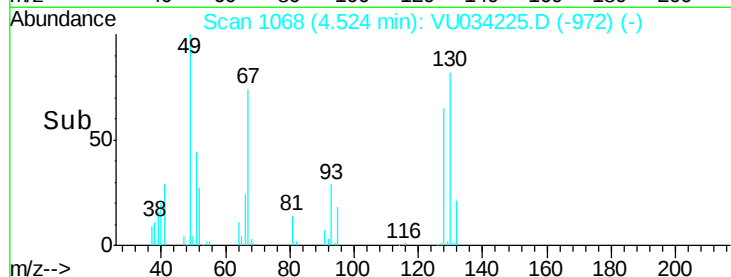
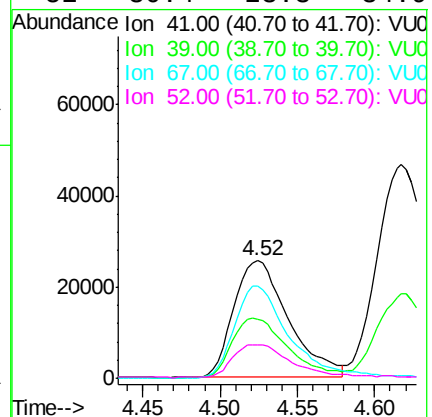
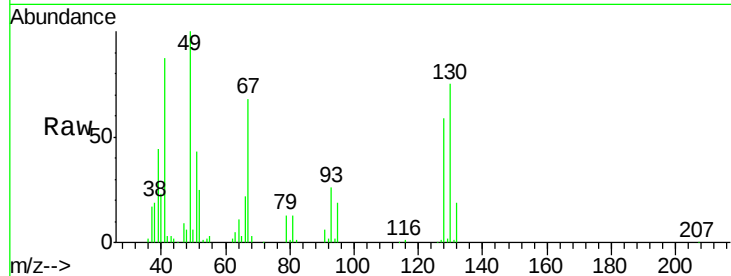
#41
Methacrylonitrile
Concen: 18.845 ug/l
RT: 4.52 min Scan# 1068
Delta R.T. 0.01 min
Lab File: VU034225.D
Acq: 03 Sep 2019 14:38

Instrument :
MSVOA_U
ClientSampleId :
VU0904WBSD01

Tot Ion:	41	Resp:	63234
Ion	Ratio	Lower	Upper
41	100		
39	53.1	42.1	63.1
67	79.8	61.0	91.4
52	30.4	23.3	34.9

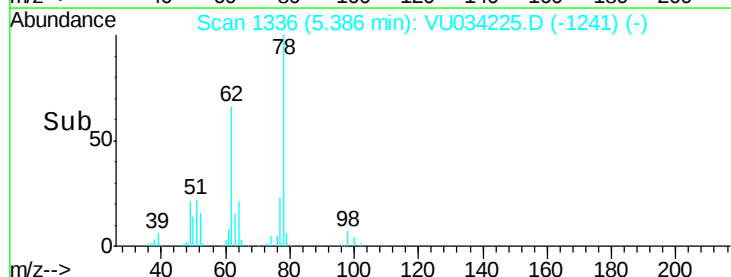
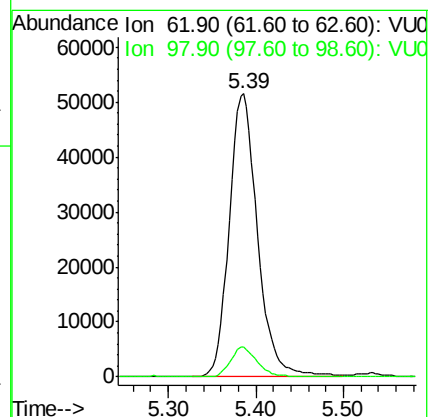
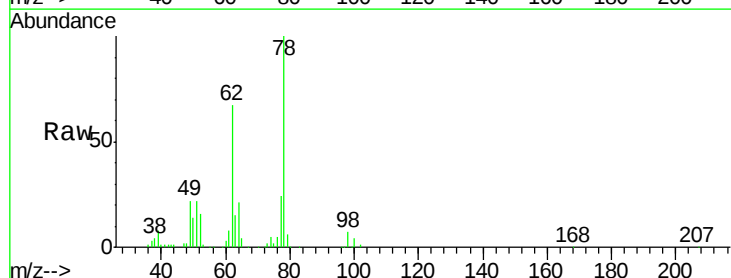
Manual Integrations
APPROVED

MMDadoda
9/4/2019 4:57:58 PM



#42
1,2-Dichloroethane
Concen: 19.005 ug/l
RT: 5.39 min Scan# 1336
Delta R.T. 0.01 min
Lab File: VU034225.D
Acq: 03 Sep 2019 14:38

Tgt Ion:	62	Resp:	116012
Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	18.2





#43

Isopropyl Acetate

Concen: 18.287 ug/l

RT: 5.53 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VU034225.D

Acq: 03 Sep 2019 14:38

Instrument :

MSVOA_U

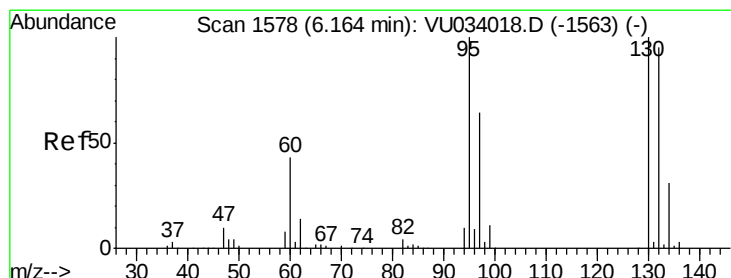
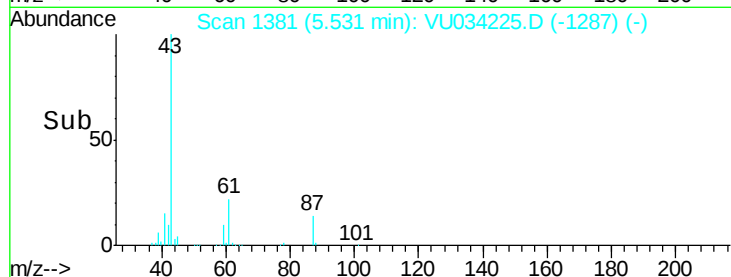
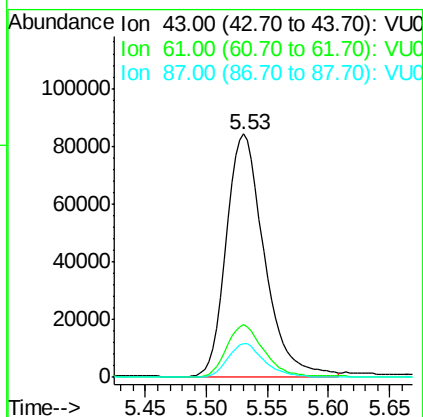
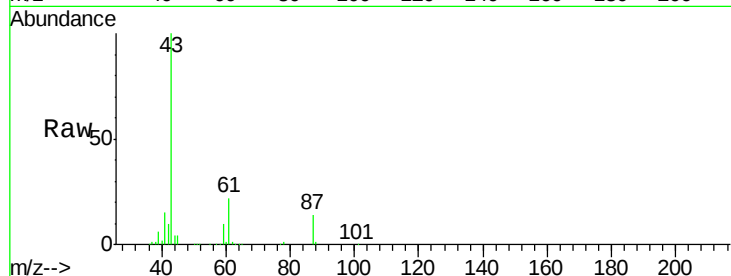
ClientSampleId :

VU0904WBSD01

Tot Ion:	43	Resp:	182023
Ion	Ratio	Lower	Upper
43	100		
61	21.5	17.2	25.8
87	13.5	10.8	16.2

Manual Integrations
APPROVED

MMDadoda
9/4/2019 4:57:58 PM



#44

Trichloroethene

Concen: 19.491 ug/l

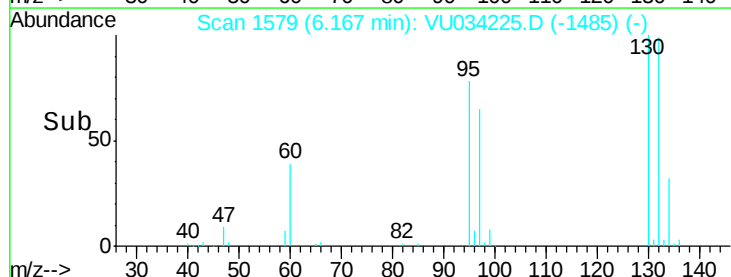
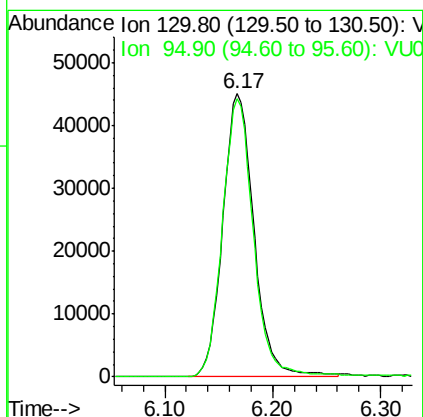
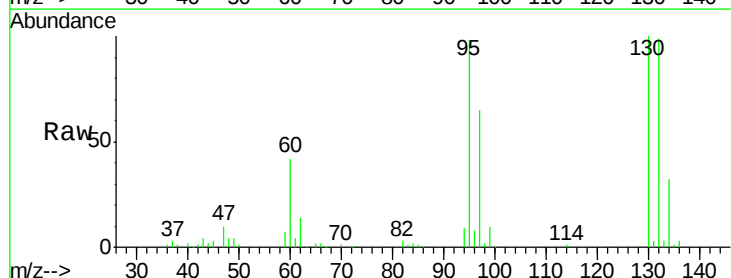
RT: 6.17 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VU034225.D

Acq: 03 Sep 2019 14:38

Tgt Ion:	130	Resp:	90479
Ion	Ratio	Lower	Upper
130	100		
95	98.1	0.0	199.6





#45

1,2-Dichloropropane

Concen: 19.270 ug/l

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU034225.D

Acq: 03 Sep 2019 14:38

Instrument :

MSVOA_U

ClientSampleId :

VU0904WBSD01

Tot Ion: 63 Resp: 93772

Ion Ratio Lower Upper

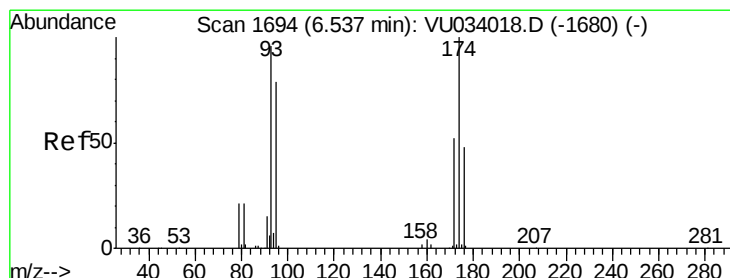
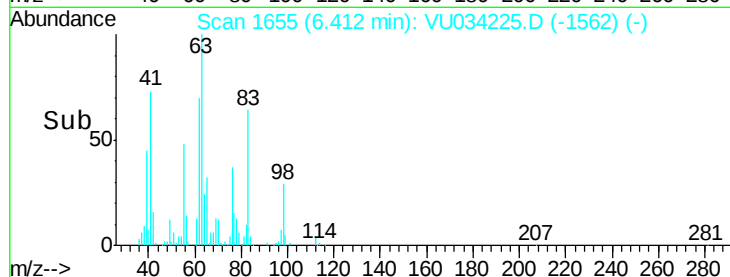
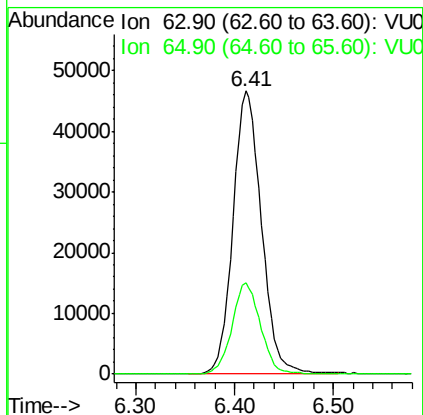
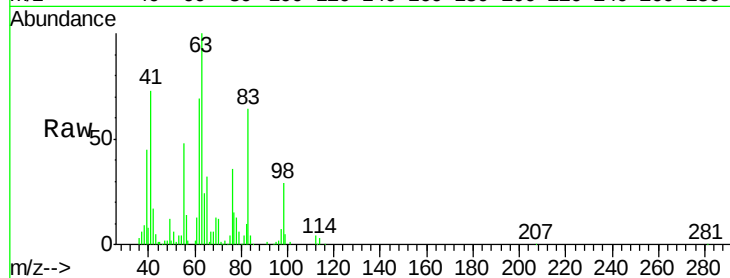
63 100

65 32.1 25.4 38.2

Manual Integrations
APPROVED

MMDadoda

9/4/2019 4:57:58 PM



#46

Dibromomethane

Concen: 19.122 ug/l

RT: 6.54 min Scan# 1695

Delta R.T. 0.00 min

Lab File: VU034225.D

Acq: 03 Sep 2019 14:38

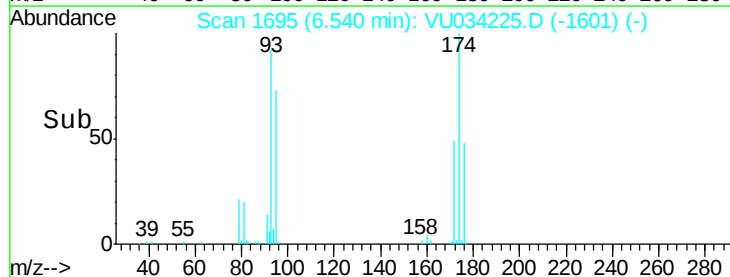
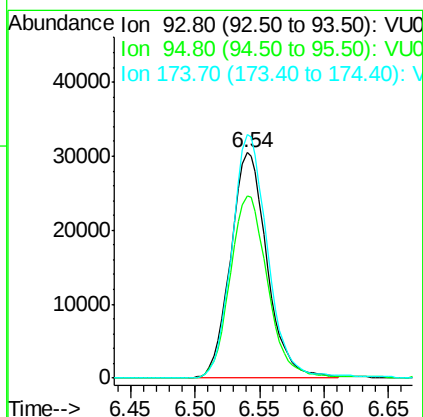
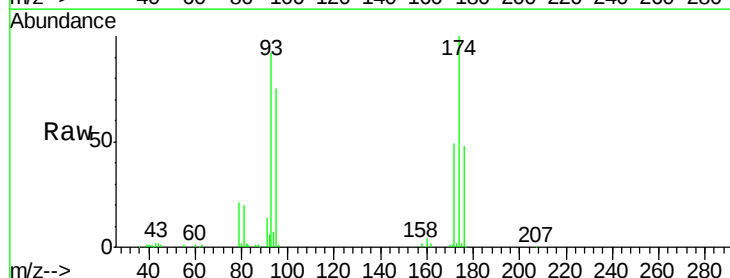
Tgt Ion: 93 Resp: 59948

Ion Ratio Lower Upper

93 100

95 83.1 66.7 100.1

174 105.6 84.9 127.3





#47

Bromodichloromethane

Concen: 19.040 ug/l

RT: 6.74 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VU034225.D

Acq: 03 Sep 2019 14:38

Instrument :

MSVOA_U

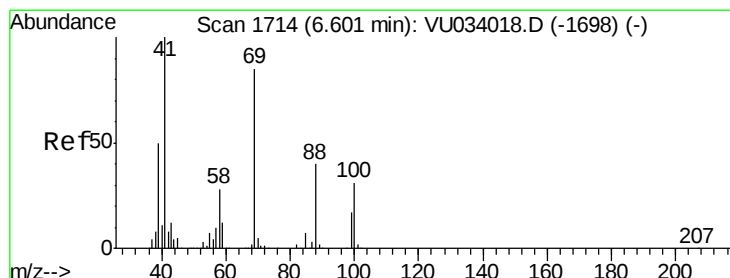
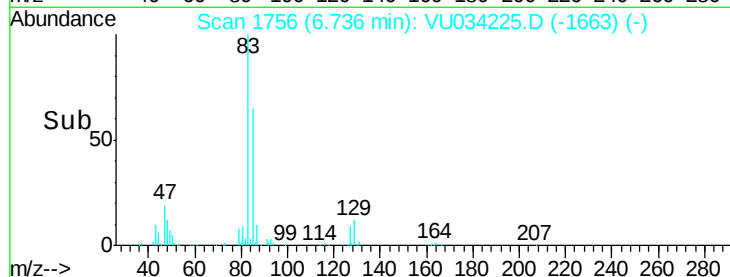
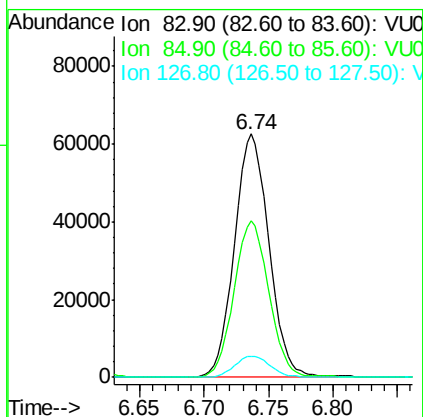
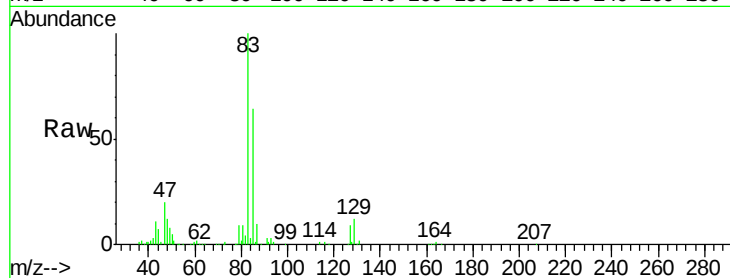
ClientSampleId :

VU0904WBSD01

Tot Ion:	83	Resp:	116787
Ion	Ratio	Lower	Upper
83	100		
85	64.0	51.2	76.8
127	8.7	7.0	10.6

Manual Integrations
APPROVED

MMDadoda
9/4/2019 4:57:58 PM



#48

Methyl methacrylate

Concen: 17.982 ug/l

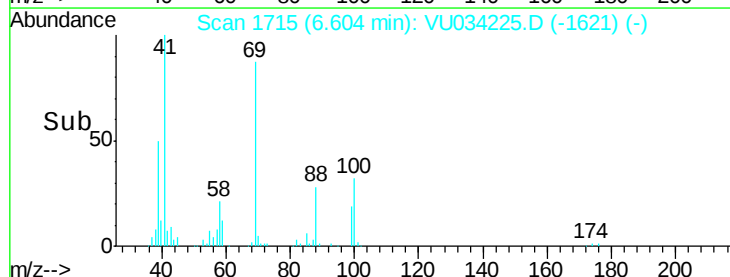
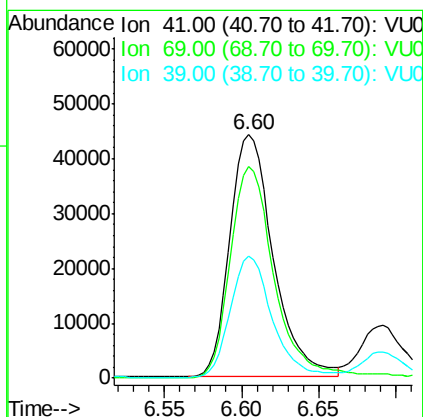
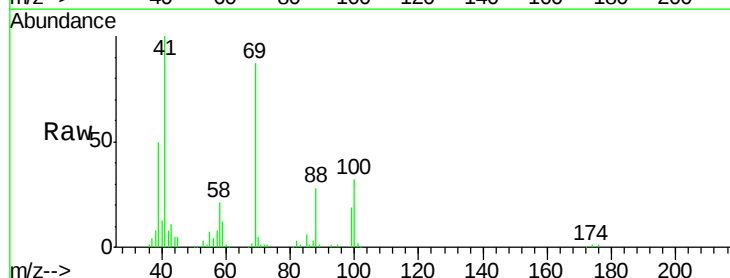
RT: 6.60 min Scan# 1715

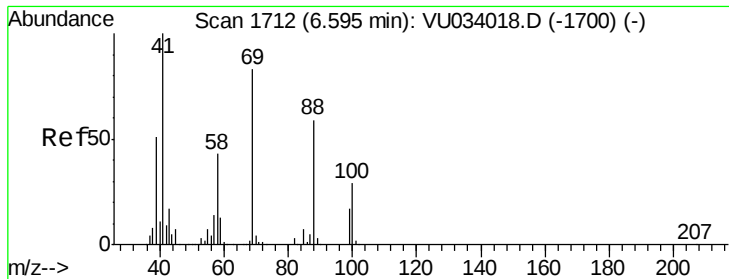
Delta R.T. 0.00 min

Lab File: VU034225.D

Acq: 03 Sep 2019 14:38

Tgt Ion:	41	Resp:	86373
Ion	Ratio	Lower	Upper
41	100		
69	89.6	69.5	104.3
39	48.4	40.3	60.5





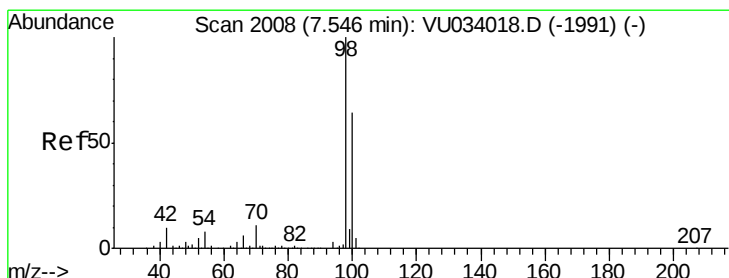
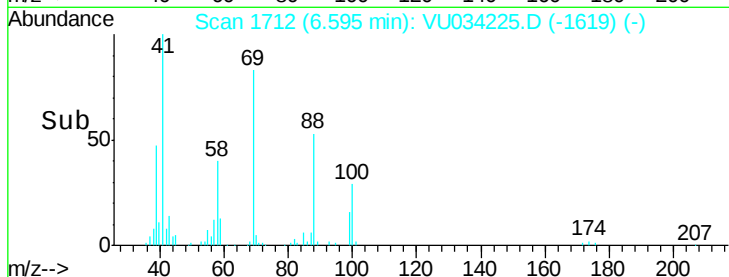
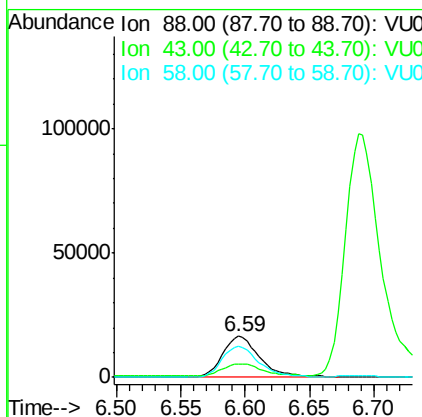
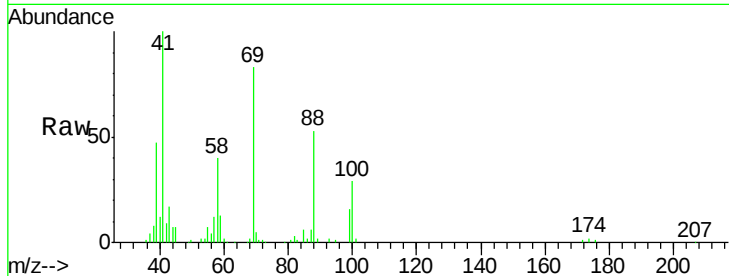
#49
1,4-Dioxane
Concen: 267.692 ug/l
RT: 6.59 min Scan# 1712
Delta R.T. 0.00 min
Lab File: VU034225.D
Acq: 03 Sep 2019 14:38

Instrument :
MSVOA_U
ClientSampled :
VU0904WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
88	100			
43	32.5	24.8	37.2	
58	78.3	59.3	88.9	

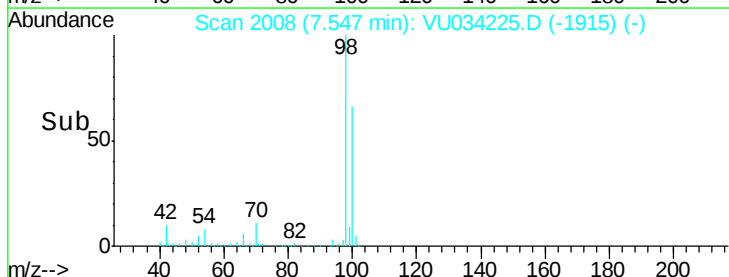
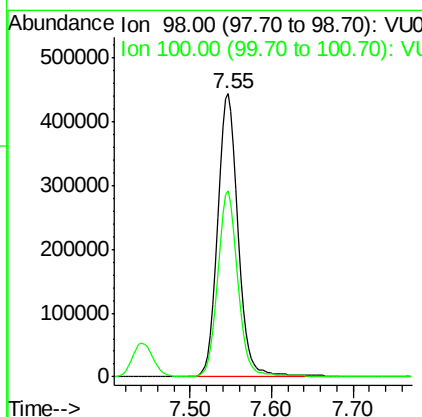
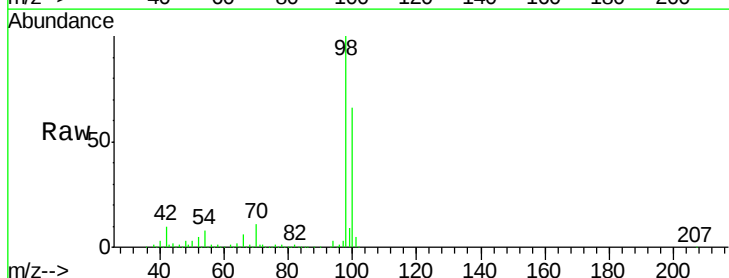
Manual Integrations
APPROVED

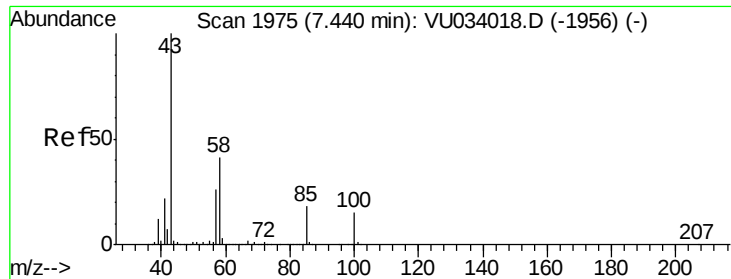
MMDadoda
9/4/2019 4:57:58 PM



#50
Toluene-d8
Concen: 49.385 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034225.D
Acq: 03 Sep 2019 14:38

Tgt Ion	Ratio	Resp	Lower	Upper
98	100			
100	64.4	50.3	75.5	





#51

4-Methyl-2-Pentanone

Concen: 91.182 ug/l

RT: 7.44 min Scan# 1975

Delta R.T. 0.00 min

Lab File: VU034225.D

Acq: 03 Sep 2019 14:38

Instrument :

MSVOA_U

ClientSampleId :

VU0904WBSD01

Tot Ion: 43 Resp: 626802

Ion Ratio Lower Upper

43 100

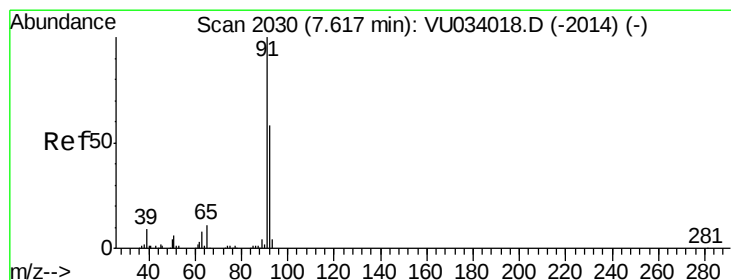
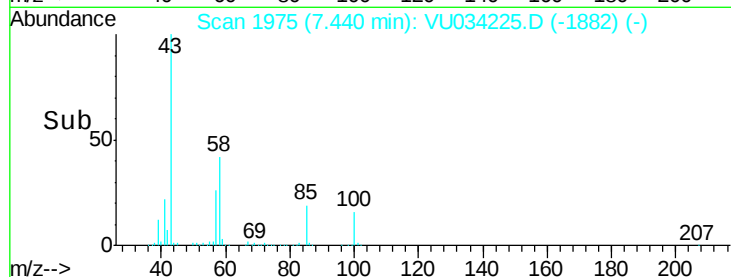
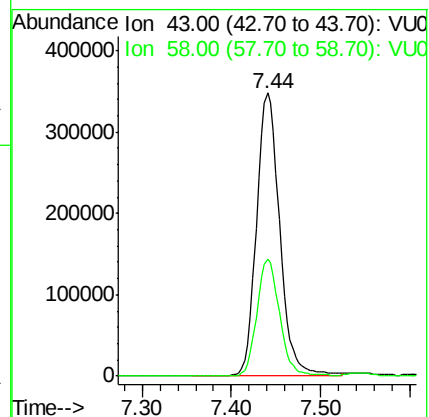
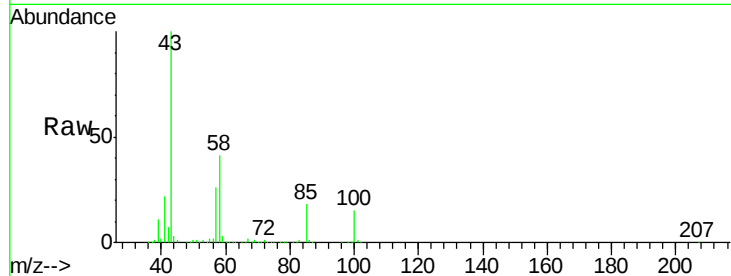
58 40.6 32.2 48.4

Manual Integrations

APPROVED

MMDadoda

9/4/2019 4:57:58 PM



#52

Toluene

Concen: 19.495 ug/l

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU034225.D

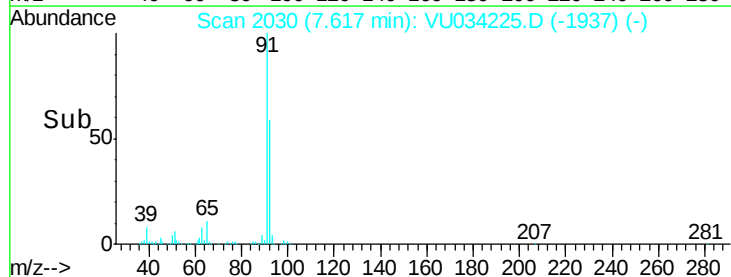
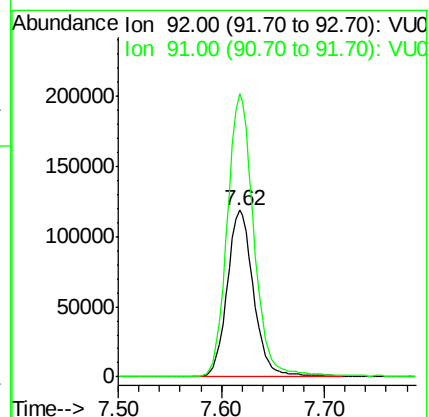
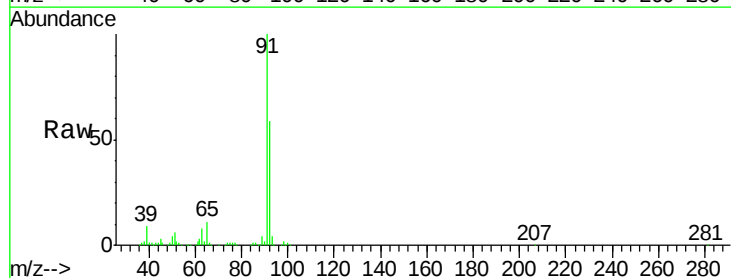
Acq: 03 Sep 2019 14:38

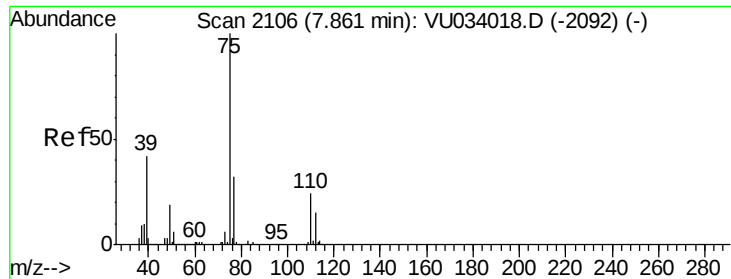
Tgt Ion: 92 Resp: 212291

Ion Ratio Lower Upper

92 100

91 171.8 138.3 207.5





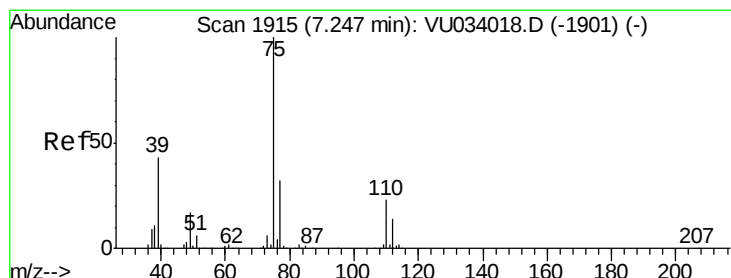
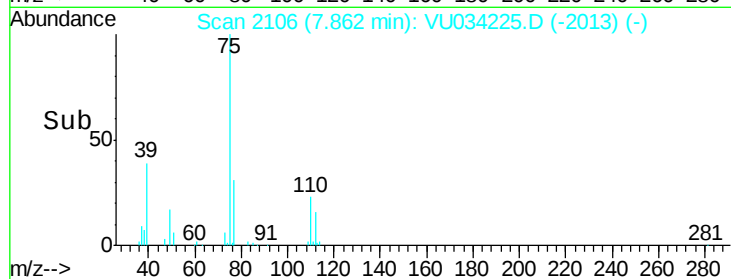
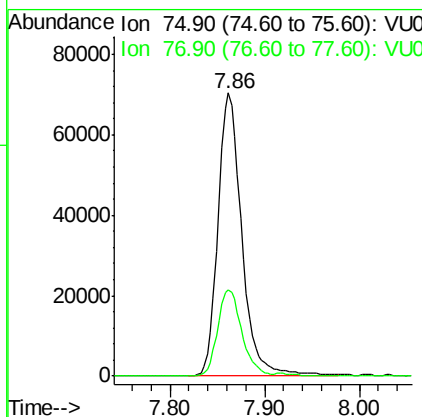
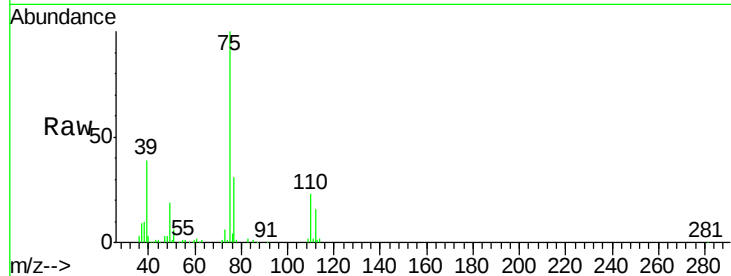
#53
t-1,3-Dichloropropene
Concen: 18.156 ug/l
RT: 7.86 min Scan# 2106
Delta R.T. 0.00 min
Lab File: VU034225.D
Acq: 03 Sep 2019 14:38

Instrument :
MSVOA_U
ClientSampleId :
VU0904WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
77	30.7	25.4	38.0

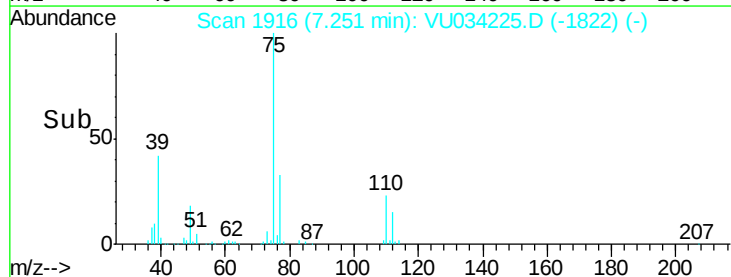
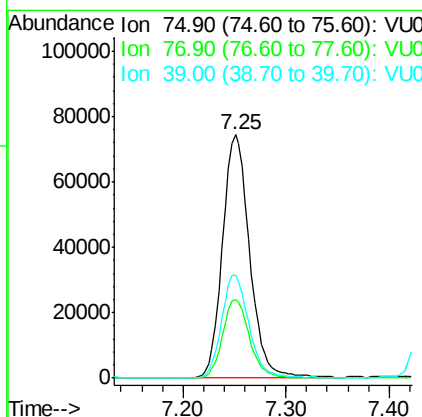
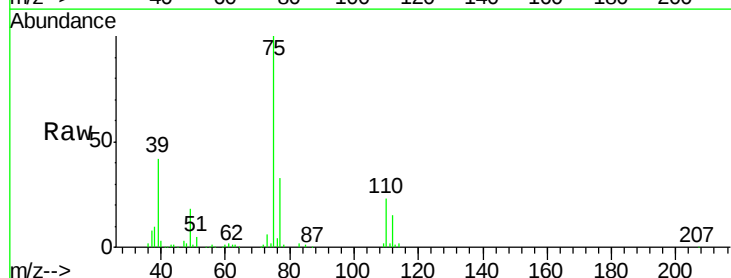
Manual Integrations
APPROVED

MMDadoda
9/4/2019 4:57:58 PM



#54
cis-1,3-Dichloropropene
Concen: 18.449 ug/l
RT: 7.25 min Scan# 1916
Delta R.T. 0.00 min
Lab File: VU034225.D
Acq: 03 Sep 2019 14:38

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.5	25.2	37.8
39	42.4	34.6	51.8





#55

1,1,2-Trichloroethane

Concen: 19.006 ug/l

RT: 8.05 min Scan# 2164

Delta R.T. 0.00 min

Lab File: VU034225.D

Acq: 03 Sep 2019 14:38

Instrument :

MSVOA_U

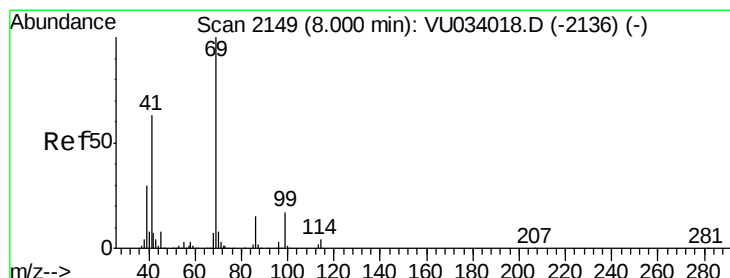
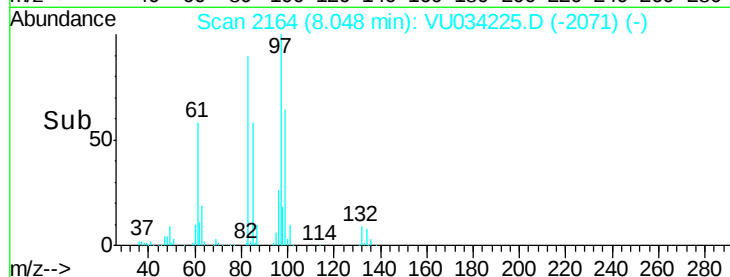
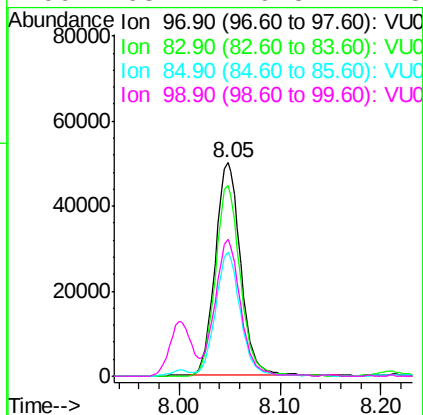
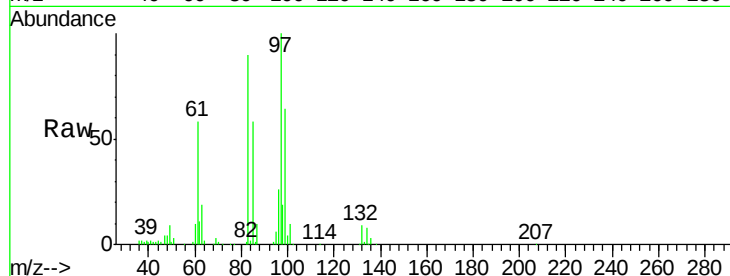
ClientSampleId :

VU0904WBSD01

Tot Ion:	97	Resp:	87547
Ion	Ratio	Lower	Upper
97	100		
83	89.6	70.1	105.1
85	58.3	45.0	67.4
99	63.7	49.8	74.8

Manual Integrations
APPROVED

MMDadoda
9/4/2019 4:57:58 PM



#56

Ethyl methacrylate

Concen: 16.576 ug/l

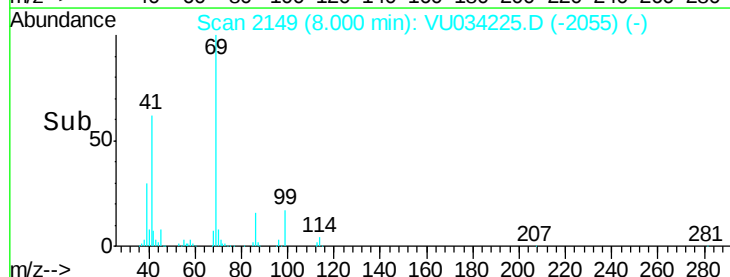
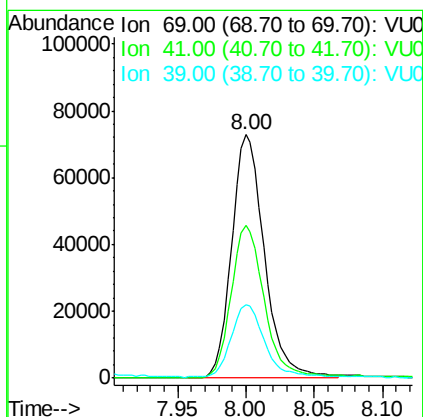
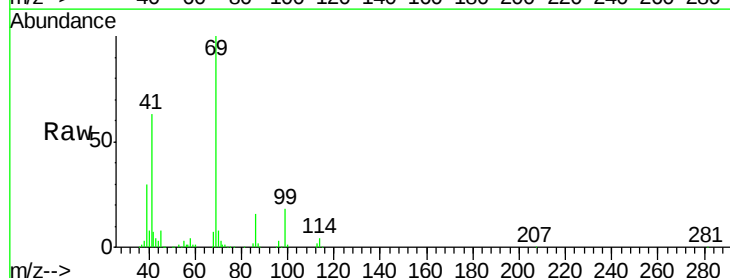
RT: 8.00 min Scan# 2149

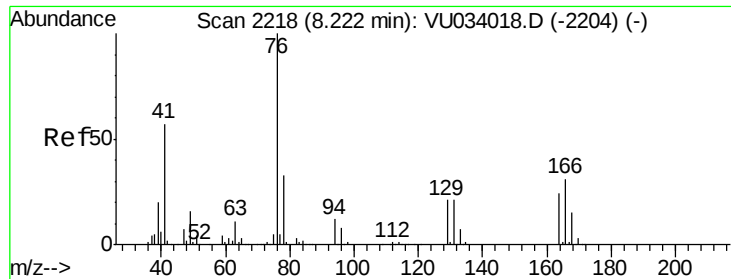
Delta R.T. 0.00 min

Lab File: VU034225.D

Acq: 03 Sep 2019 14:38

Tgt Ion:	69	Resp:	121590
Ion	Ratio	Lower	Upper
69	100		
41	64.2	50.7	76.1
39	30.4	24.2	36.2





#57

1,3-Dichloropropane

Concen: 18.996 ug/l

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VU034225.D

Acq: 03 Sep 2019 14:38

Instrument :

MSVOA_U

ClientSampleId :

VU0904WBSD01

Tot Ion: 76 Resp: 148566

Ion Ratio Lower Upper

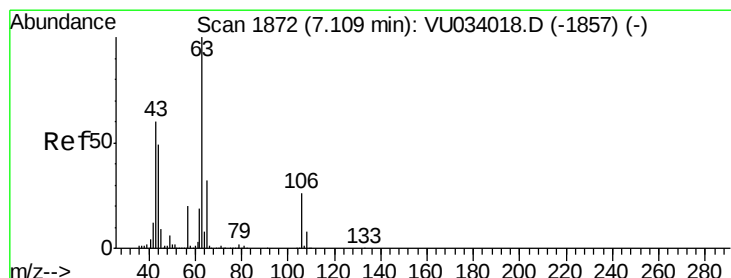
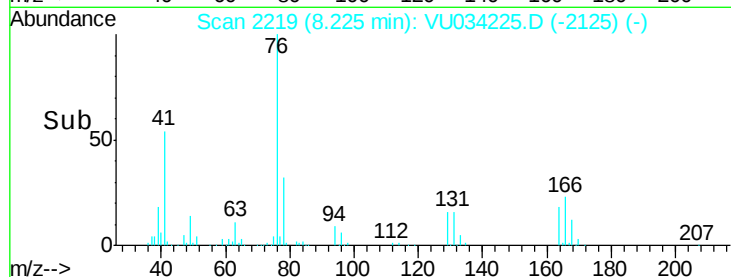
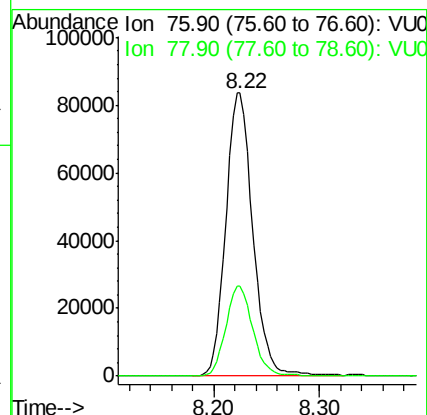
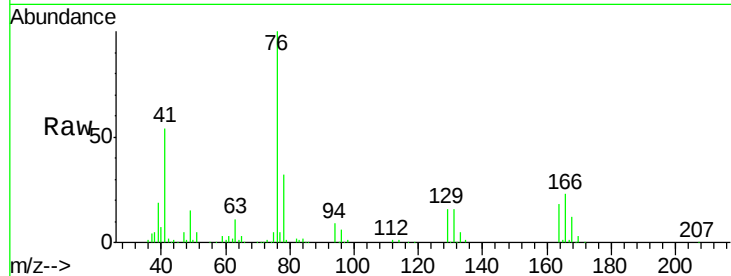
76 100

78 31.8 26.2 39.4

Manual Integrations
APPROVED

MMDadoda

9/4/2019 4:57:58 PM



#58

2-Chloroethyl Vinyl ether

Concen: 81.158 ug/l

RT: 7.11 min Scan# 1872

Delta R.T. 0.00 min

Lab File: VU034225.D

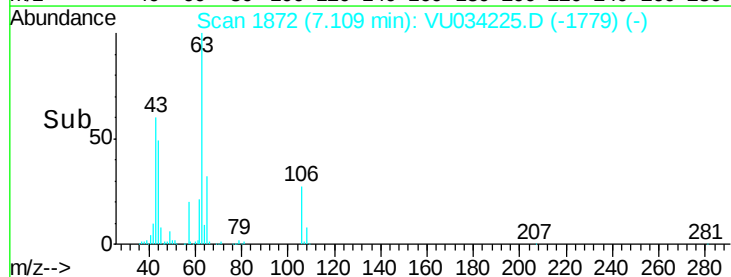
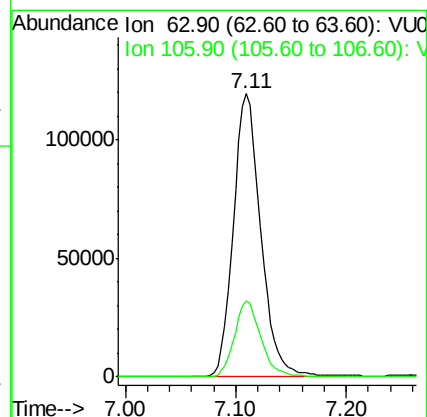
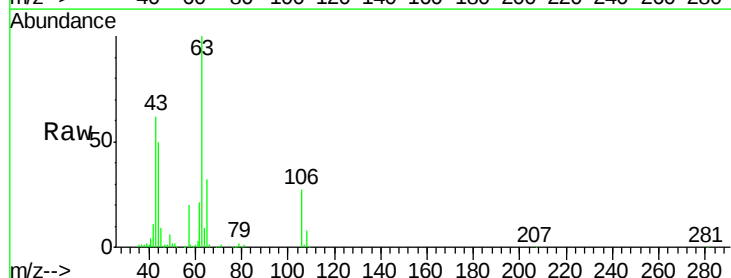
Acq: 03 Sep 2019 14:38

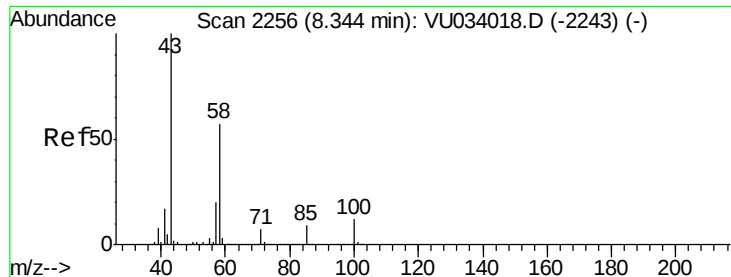
Tgt Ion: 63 Resp: 206813

Ion Ratio Lower Upper

63 100

106 25.8 20.7 31.1





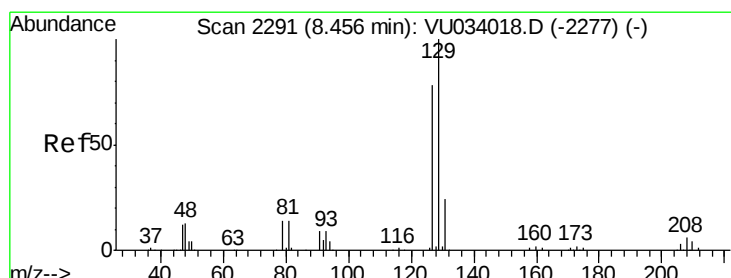
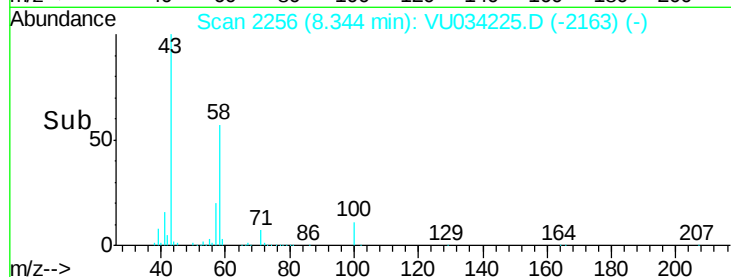
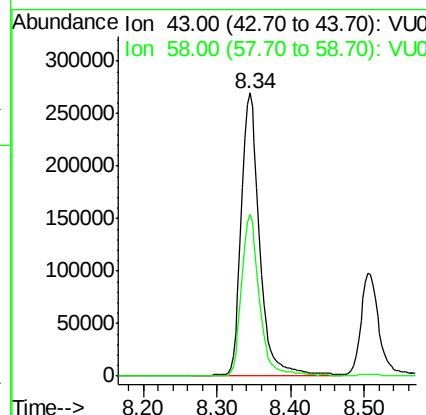
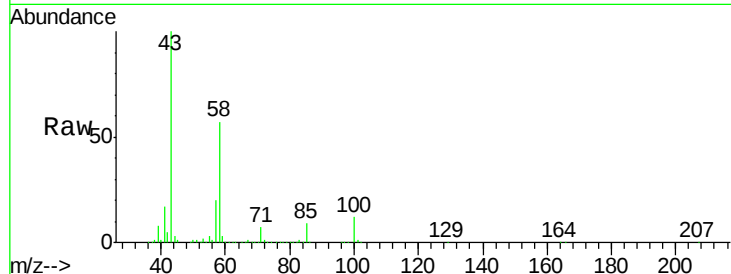
#59
2-Hexanone
Concen: 90.279 ug/l
RT: 8.34 min Scan# 2256
Delta R.T. 0.00 min
Lab File: VU034225.D
Acq: 03 Sep 2019 14:38

Instrument :
MSVOA_U
ClientSampleId :
VU0904WBSD01

Tot Ion: 43 Resp: 468489
Ion Ratio Lower Upper
43 100
58 55.6 28.4 85.3

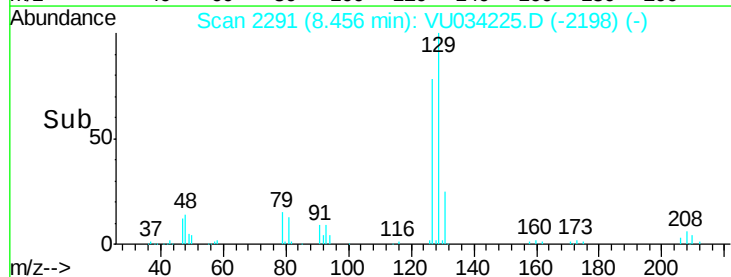
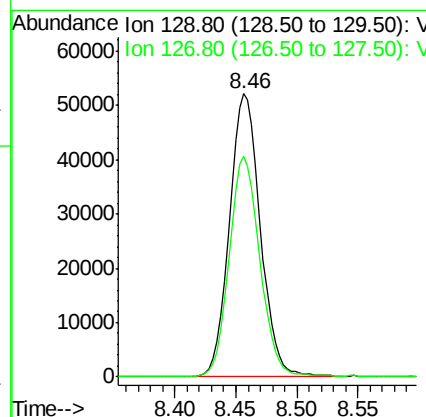
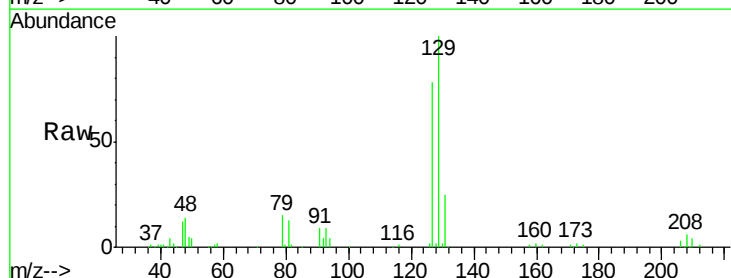
Manual Integrations
APPROVED

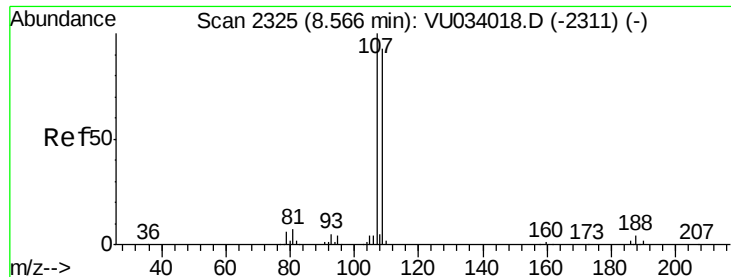
MMDadoda
9/4/2019 4:57:58 PM



#60
Dibromochloromethane
Concen: 18.750 ug/l
RT: 8.46 min Scan# 2291
Delta R.T. 0.00 min
Lab File: VU034225.D
Acq: 03 Sep 2019 14:38

Tgt Ion: 129 Resp: 92708
Ion Ratio Lower Upper
129 100
127 77.0 39.0 116.9





#61

1,2-Dibromoethane

Concen: 18.315 ug/l

RT: 8.57 min Scan# 2325

Delta R.T. 0.00 min

Lab File: VU034225.D

Acq: 03 Sep 2019 14:38

Instrument :

MSVOA_U

ClientSampleId :

VU0904WBSD01

Tot Ion:107 Resp: 88867

Ion Ratio Lower Upper

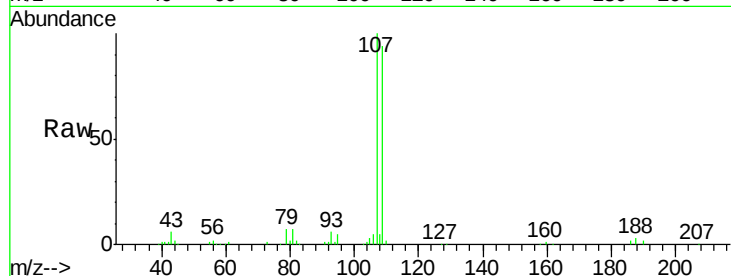
107 100

109 93.7 75.2 112.8

Manual Integrations
APPROVED

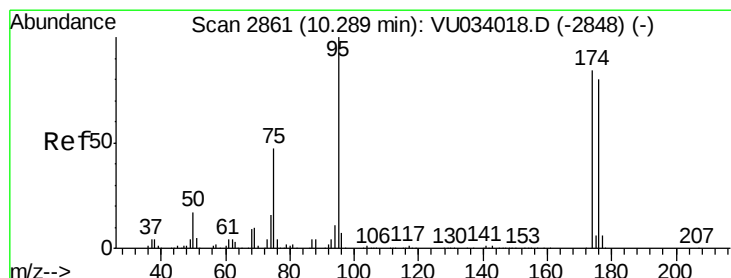
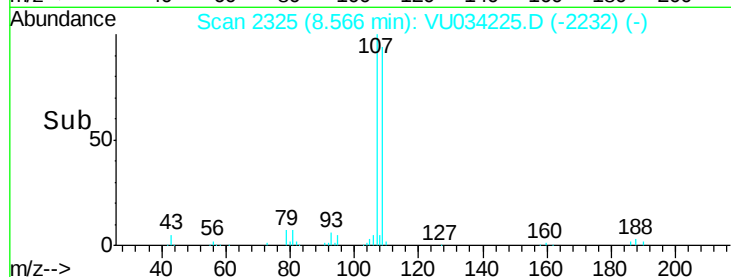
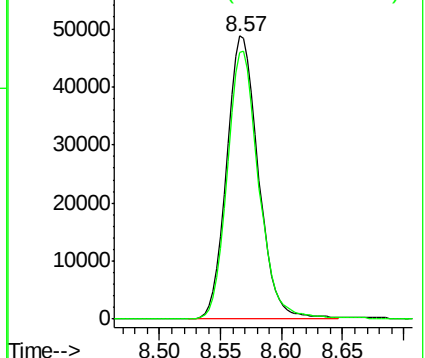
MMDadoda

9/4/2019 4:57:58 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 47.057 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VU034225.D

Acq: 03 Sep 2019 14:38

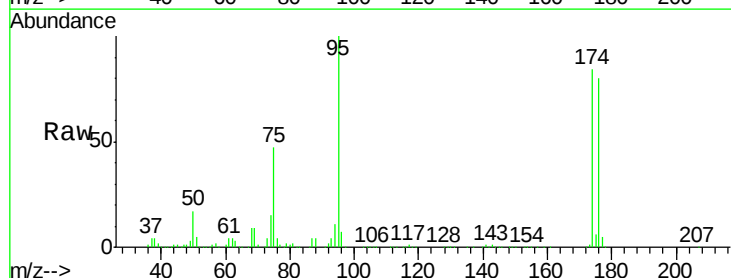
Tgt Ion: 95 Resp: 293645

Ion Ratio Lower Upper

95 100

174 86.1 0.0 168.8

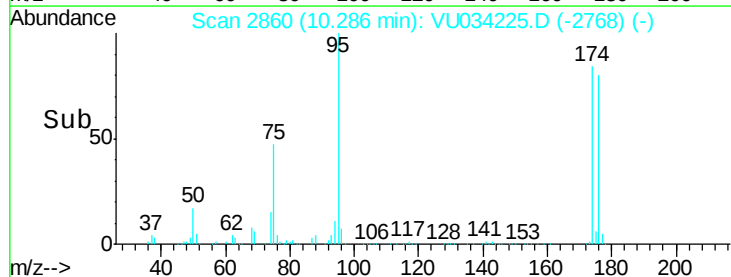
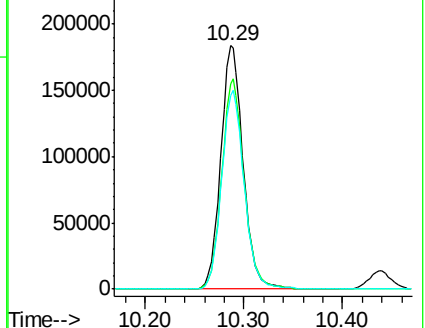
176 82.4 0.0 161.8

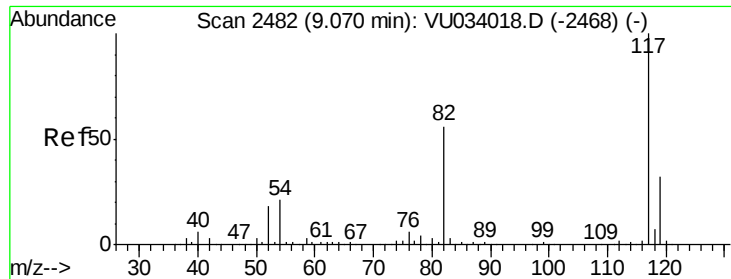


Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





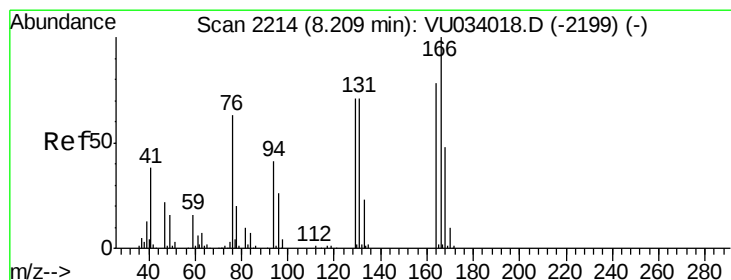
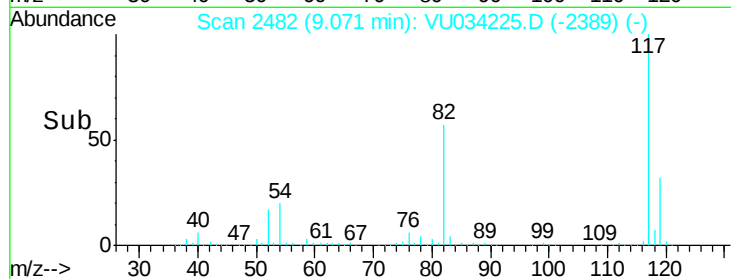
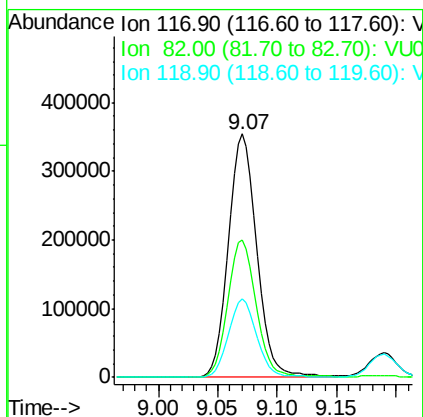
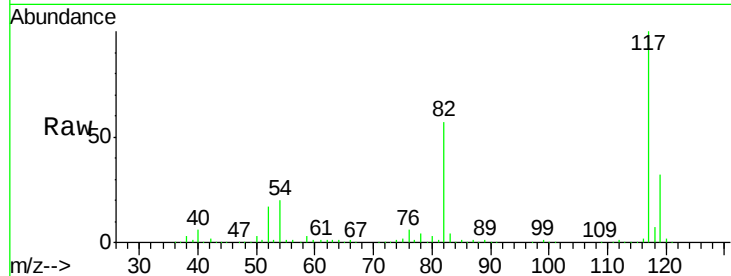
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034225.D
Acq: 03 Sep 2019 14:38

Instrument :
MSVOA_U
ClientSampleId :
VU0904WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.6	45.1	67.7
119	32.2	25.4	38.0

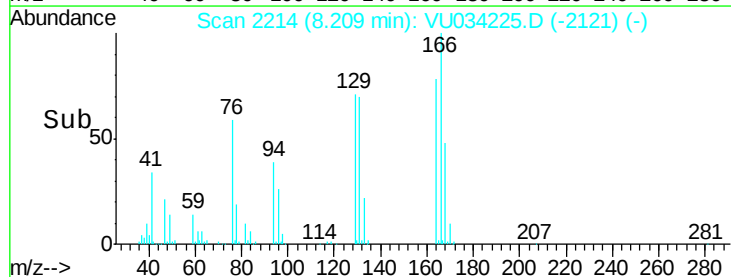
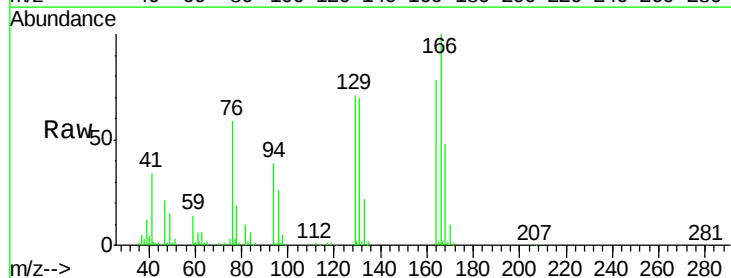
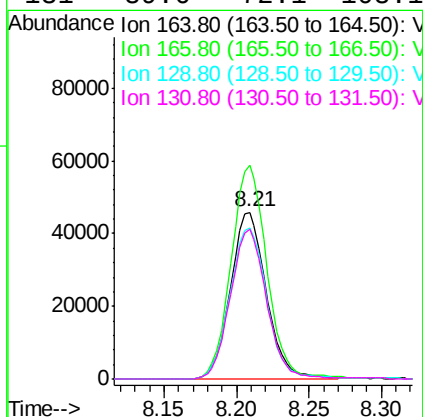
Manual Integrations
APPROVED

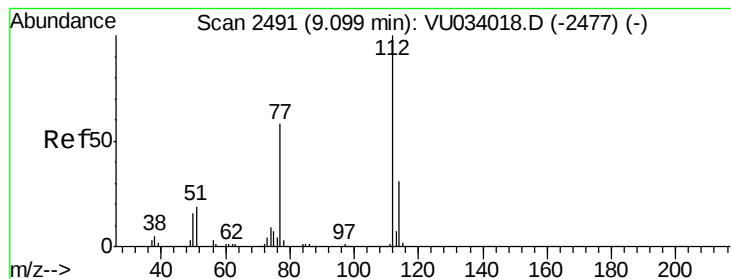
MMDadoda
9/4/2019 4:57:58 PM



#64
Tetrachloroethene
Concen: 19.955 ug/l
RT: 8.21 min Scan# 2214
Delta R.T. 0.00 min
Lab File: VU034225.D
Acq: 03 Sep 2019 14:38

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.1	102.2	153.2
129	90.7	72.4	108.6
131	89.6	72.1	108.1





#65

Chlorobenzene

Concen: 19.031 ug/l

RT: 9.10 min Scan# 2491

Delta R.T. 0.00 min

Lab File: VU034225.D

Acq: 03 Sep 2019 14:38

Instrument :

MSVOA_U

ClientSampleId :

VU0904WBSD01

Tot Ion:112 Resp: 230224

Ion Ratio Lower Upper

112 100

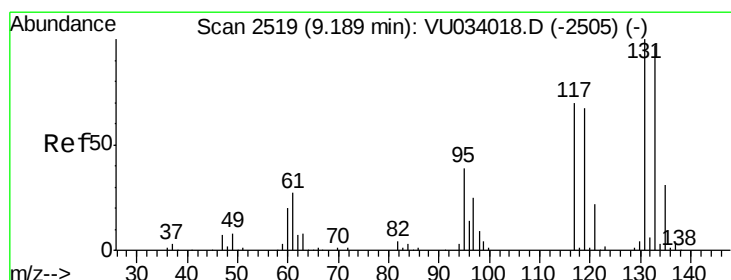
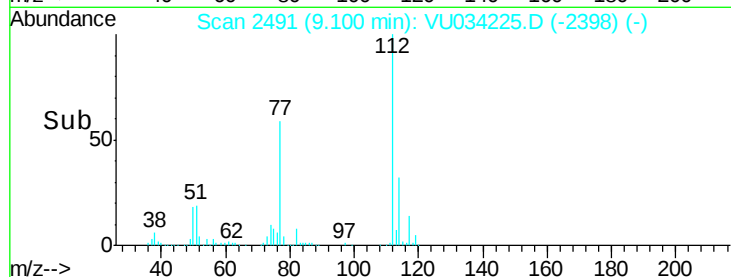
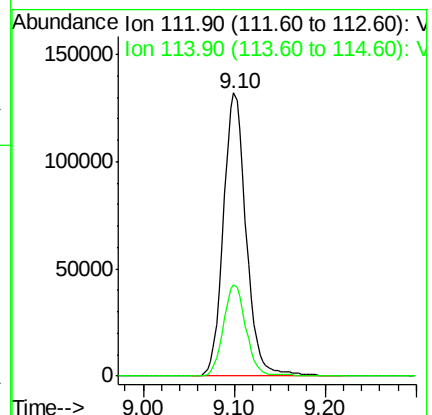
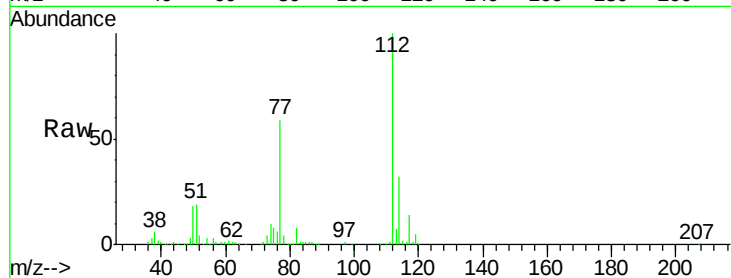
114 32.4 25.0 37.4

Manual Integrations

APPROVED

MMDadoda

9/4/2019 4:57:58 PM



#66

1,1,1,2-Tetrachloroethane

Concen: 18.698 ug/l

RT: 9.19 min Scan# 2519

Delta R.T. 0.00 min

Lab File: VU034225.D

Acq: 03 Sep 2019 14:38

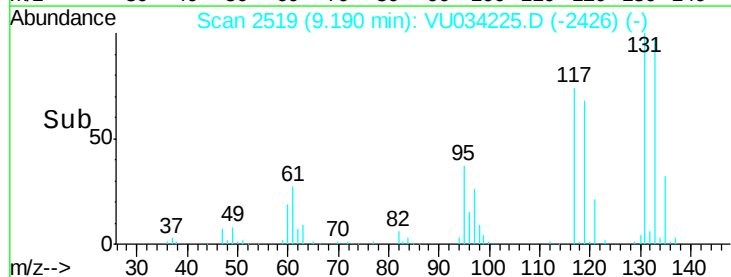
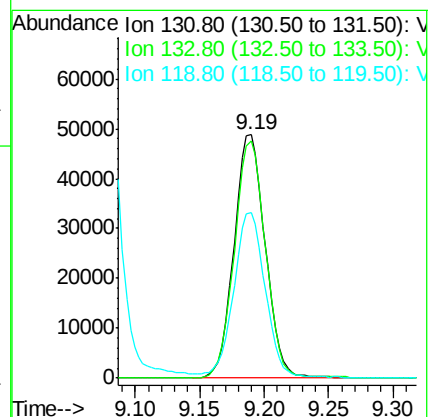
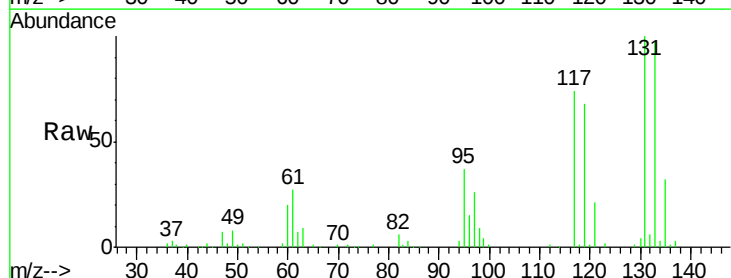
Tgt Ion:131 Resp: 82022

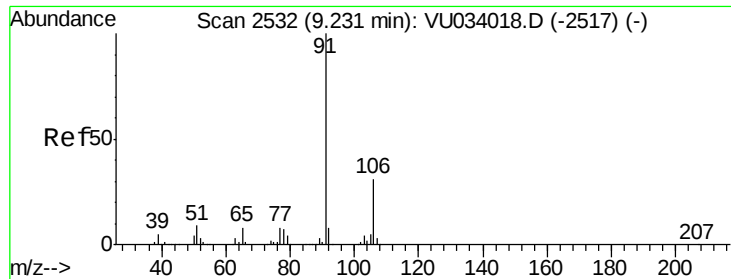
Ion Ratio Lower Upper

131 100

133 96.9 48.4 145.2

119 67.8 33.6 100.6





#67

Ethyl Benzene

Concen: 18.933 ug/l

RT: 9.23 min Scan# 2532

Delta R.T. 0.00 min

Lab File: VU034225.D

Acq: 03 Sep 2019 14:38

Instrument :

MSVOA_U

ClientSampleId :

VU0904WBSD01

Tot Ion: 91 Resp: 388239

Ion Ratio Lower Upper

91 100

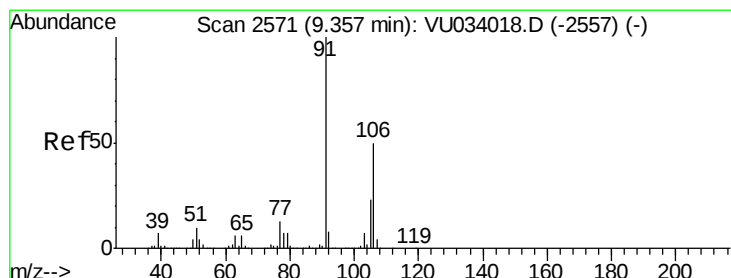
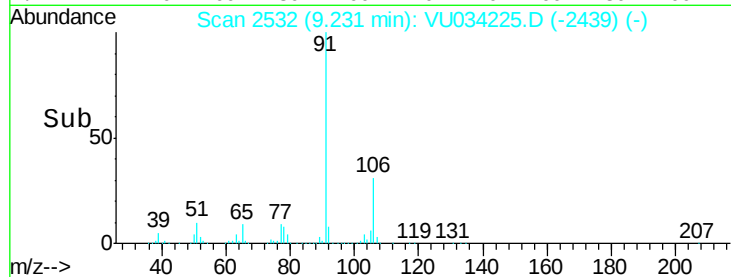
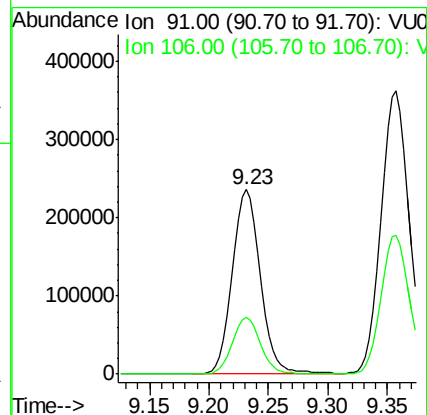
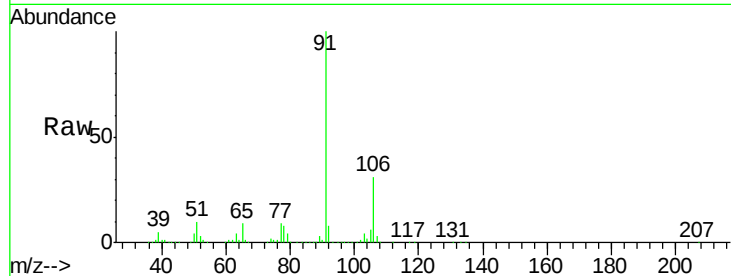
106 31.1 24.9 37.3

Manual Integrations

APPROVED

MMDadoda

9/4/2019 4:57:58 PM



#68

m/p-Xylenes

Concen: 38.353 ug/l

RT: 9.36 min Scan# 2571

Delta R.T. 0.00 min

Lab File: VU034225.D

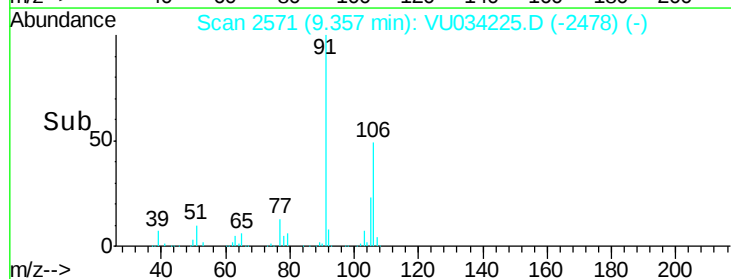
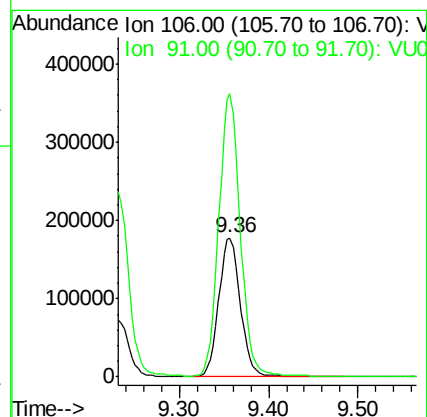
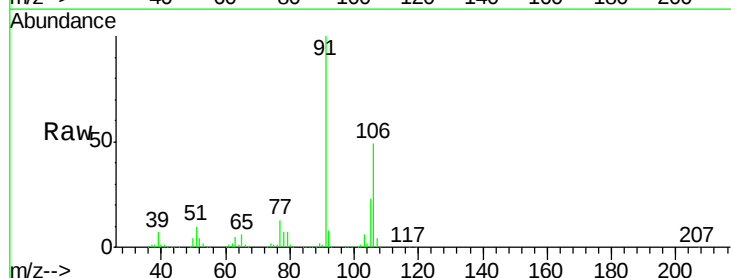
Acq: 03 Sep 2019 14:38

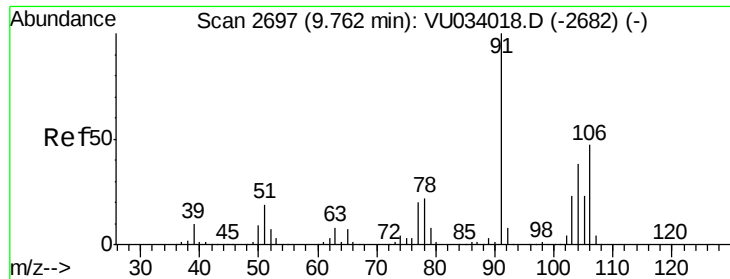
Tgt Ion: 106 Resp: 299054

Ion Ratio Lower Upper

106 100

91 201.9 161.6 242.4





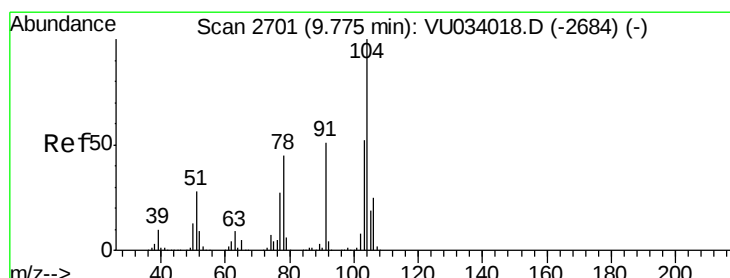
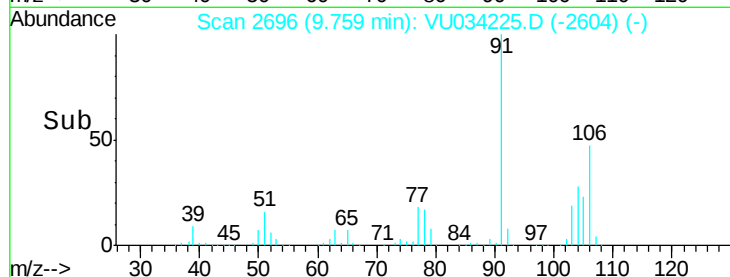
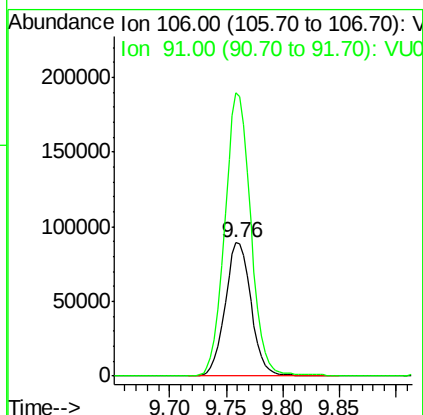
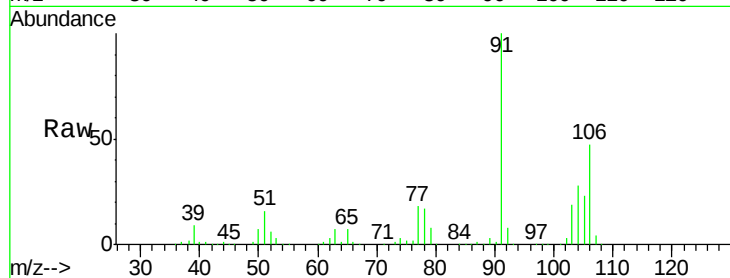
#69
o-Xylene
Concen: 19.188 ug/l
RT: 9.76 min Scan# 2696
Delta R.T. -0.00 min
Lab File: VU034225.D
Acq: 03 Sep 2019 14:38

Instrument :
MSVOA_U
ClientSampleId :
VU0904WBSD01

Tot Ion	Ion	Ratio	Lower	Upper
106	100			
91	210.6	106.0	318.0	

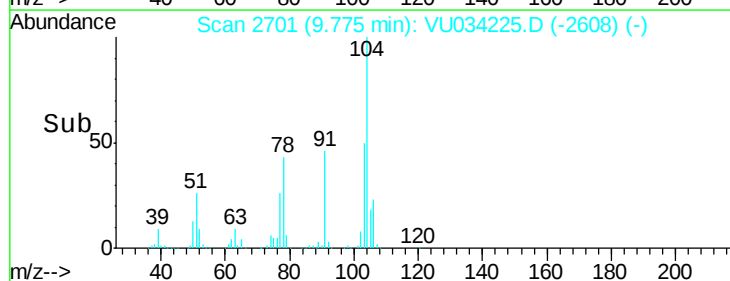
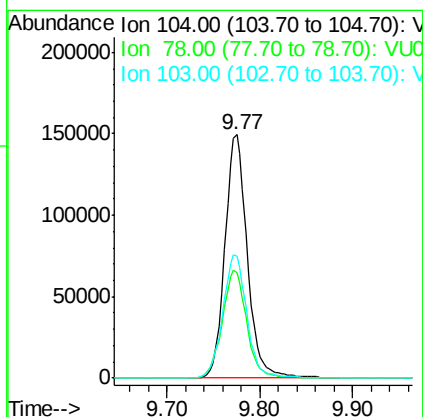
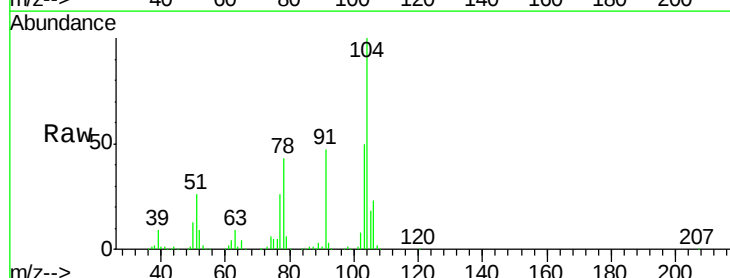
Manual Integrations
APPROVED

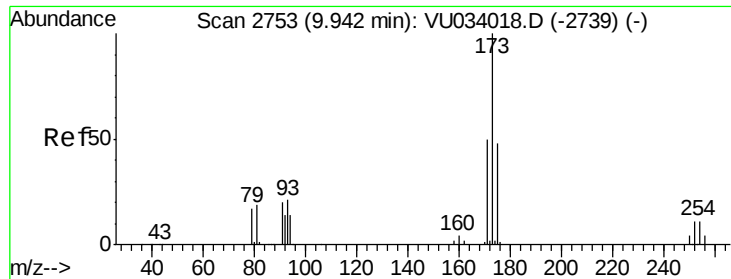
MMDadoda
9/4/2019 4:57:58 PM



#70
Styrene
Concen: 19.540 ug/l
RT: 9.77 min Scan# 2701
Delta R.T. 0.00 min
Lab File: VU034225.D
Acq: 03 Sep 2019 14:38

Tgt Ion	Ion	Ratio	Lower	Upper
104	100			
78	48.0	39.0	58.4	
103	54.6	44.0	66.0	





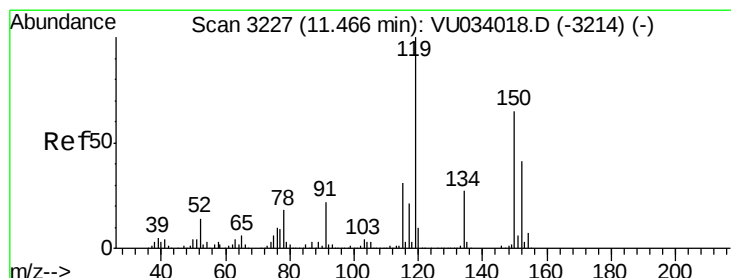
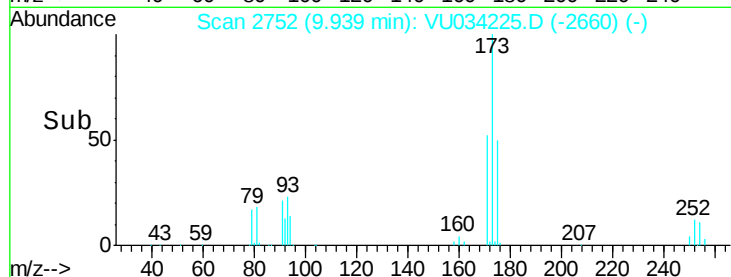
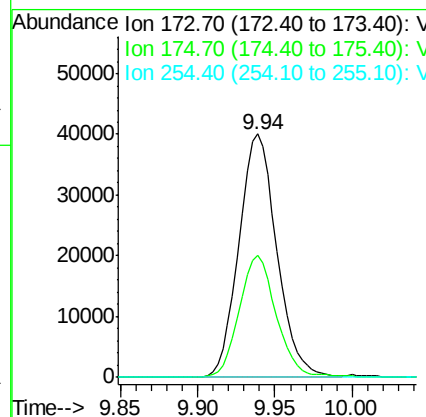
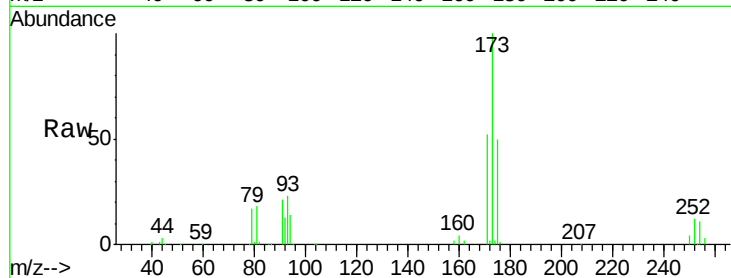
#71
Bromoform
Concen: 17.906 ug/l
RT: 9.94 min Scan# 2752
Delta R.T. -0.00 min
Lab File: VU034225.D
Acq: 03 Sep 2019 14:38

Instrument :
MSVOA_U
ClientSampleId :
VU0904WBSD01

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.9	24.6	73.6
254	0.0	0.0	0.0

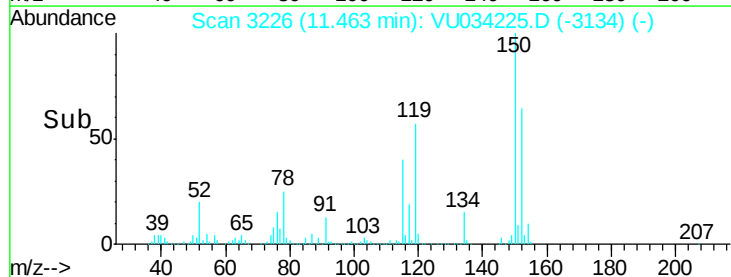
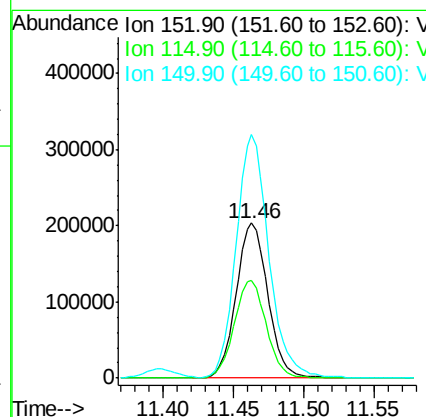
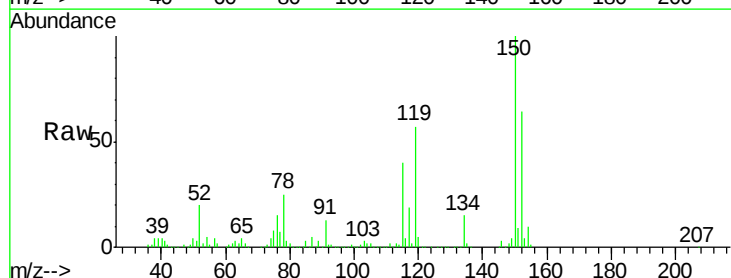
Manual Integrations
APPROVED

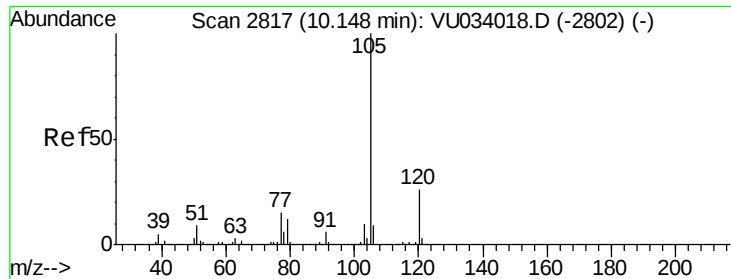
MMDadoda
9/4/2019 4:57:58 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034225.D
Acq: 03 Sep 2019 14:38

Tgt Ion	Ratio	Lower	Upper
152	100		
115	63.9	41.1	123.3
150	161.6	0.0	348.8





#73

Isopropylbenzene

Concen: 17.973 ug/l

RT: 10.15 min Scan# 2817

Delta R.T. 0.00 min

Lab File: VU034225.D

Acq: 03 Sep 2019 14:38

Instrument :

MSVOA_U

ClientSampleId :

VU0904WBSD01

Tot Ion: 105 Resp: 386662

Ion Ratio Lower Upper

105 100

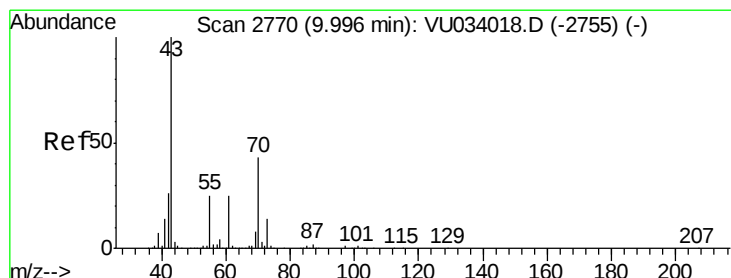
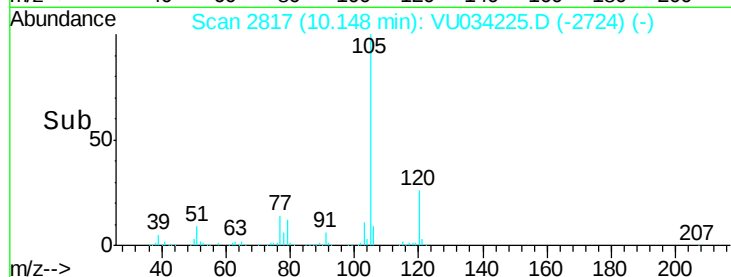
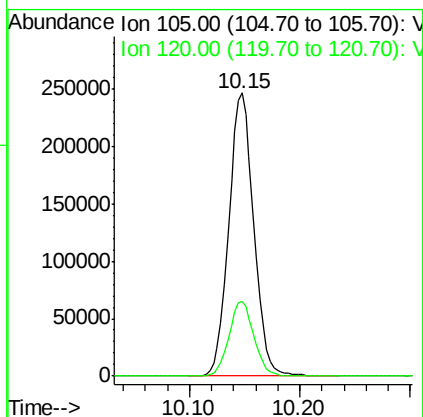
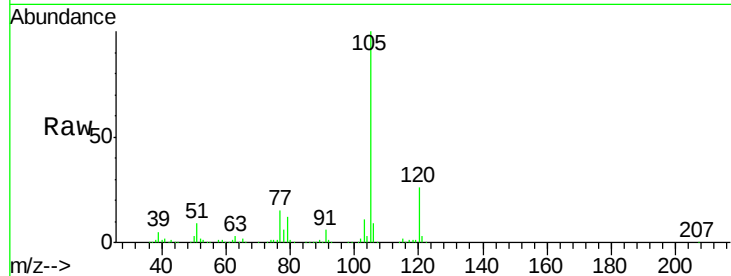
120 26.4 13.3 39.8

Manual Integrations

APPROVED

MMDadoda

9/4/2019 4:57:58 PM



#74

N-ethyl acetate

Concen: 17.185 ug/l

RT: 10.00 min Scan# 2770

Delta R.T. 0.00 min

Lab File: VU034225.D

Acq: 03 Sep 2019 14:38

Tgt Ion: 43 Resp: 155498

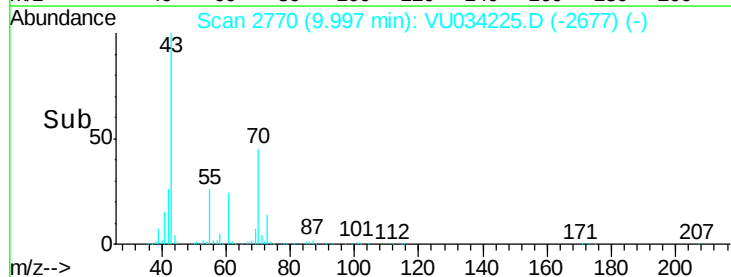
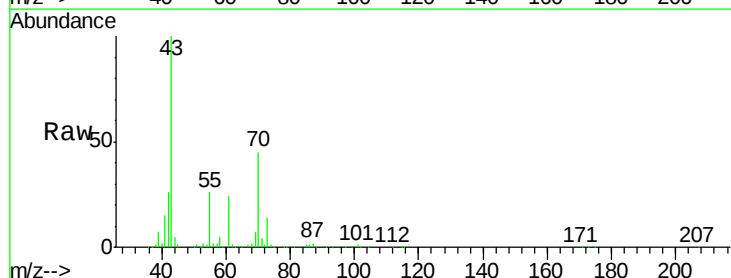
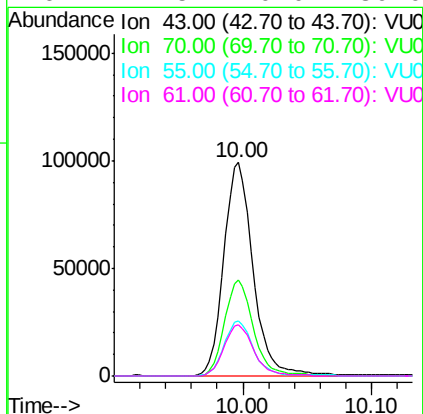
Ion Ratio Lower Upper

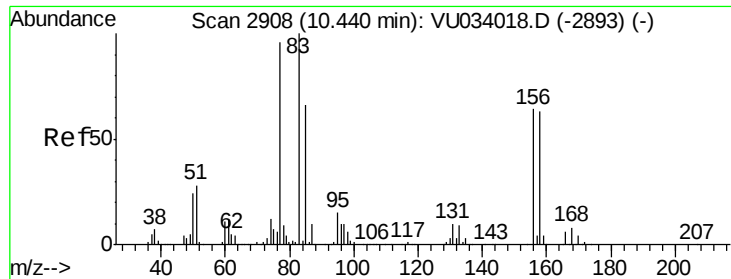
43 100

70 44.9 35.2 52.8

55 25.9 20.5 30.7

61 24.5 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 17.832 ug/l

RT: 10.44 min Scan# 2907

Delta R.T. -0.00 min

Lab File: VU034225.D

Acq: 03 Sep 2019 14:38

Instrument :

MSVOA_U

ClientSampleId :

VU0904WBSD01

Tot Ion: 83 Resp: 146833

Ion Ratio Lower Upper

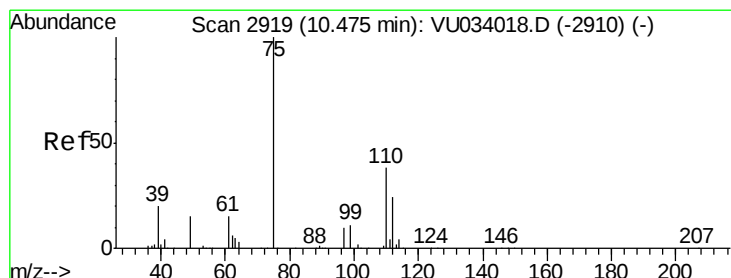
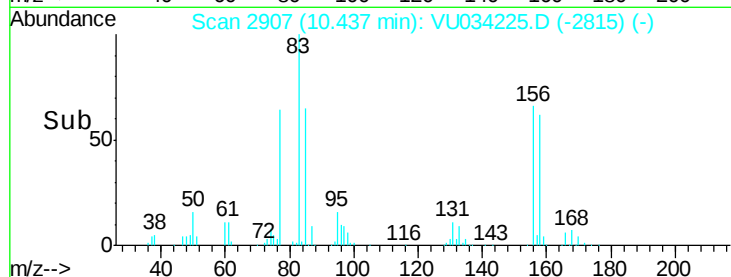
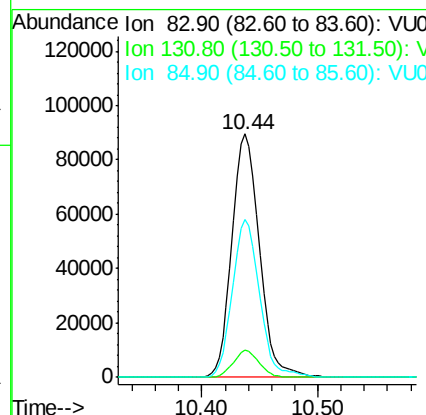
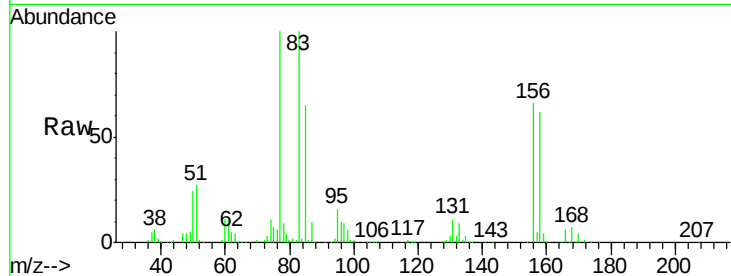
83 100

131 10.4 5.0 14.9

85 64.0 32.2 96.6

Manual Integrations
APPROVED

MMDadoda
9/4/2019 4:57:58 PM



#76

1,2,3-Trichloropropane

Concen: 17.761 ug/l m

RT: 10.48 min Scan# 2919

Delta R.T. 0.00 min

Lab File: VU034225.D

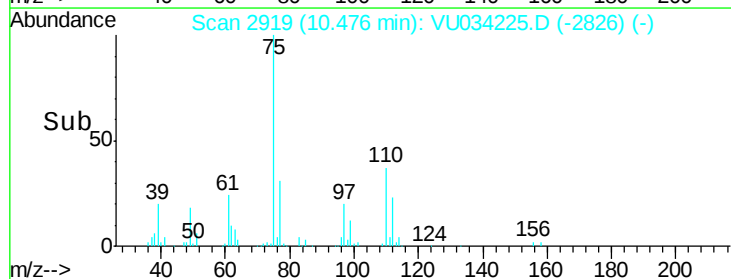
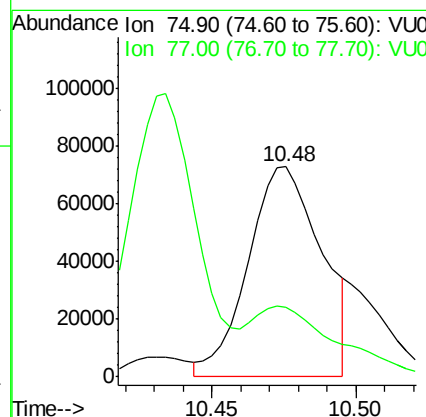
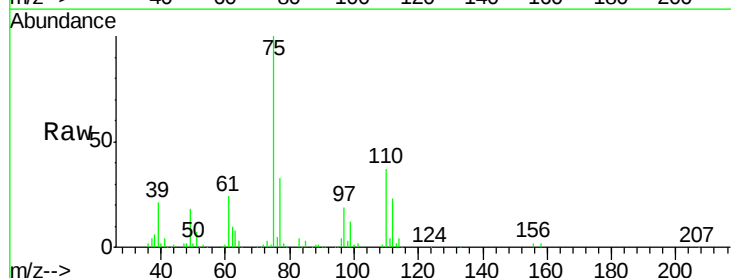
Acq: 03 Sep 2019 14:38

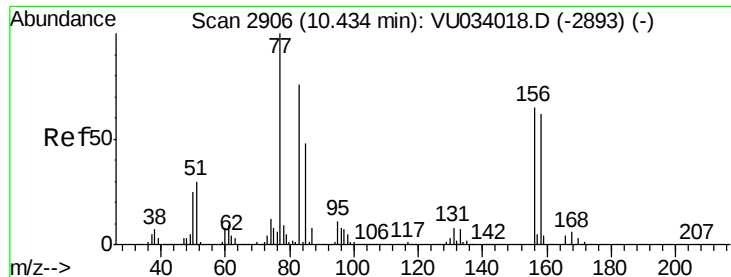
Tgt Ion: 75 Resp: 128213

Ion Ratio Lower Upper

75 100

77 39.5 20.1 60.2





#77

Bromobenzene

Concen: 18.015 ug/l

RT: 10.43 min Scan# 2906

Delta R.T. 0.00 min

Lab File: VU034225.D

Acq: 03 Sep 2019 14:38

Instrument :

MSVOA_U

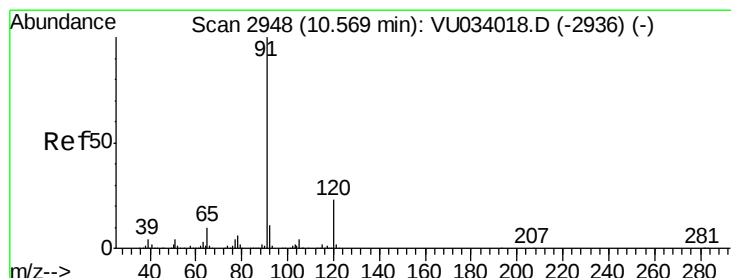
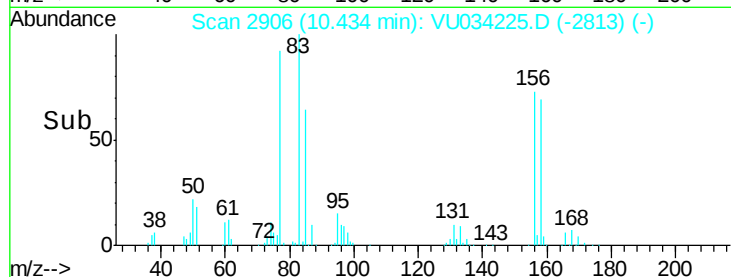
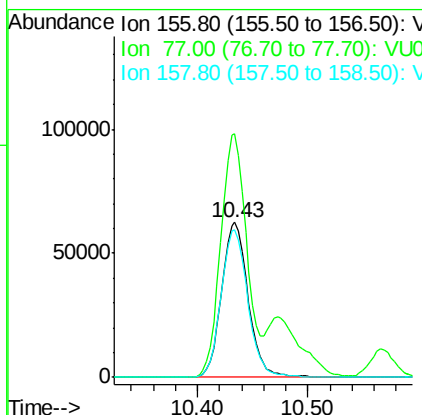
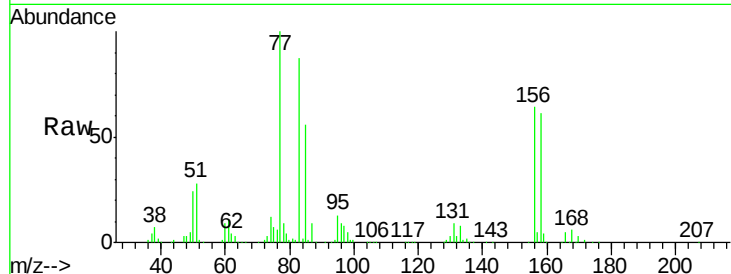
ClientSampled :

VU0904WBSD01

Tot Ion:	156	Resp:	104256
Ion Ratio	Lower	Upper	
156	100		
77	155.6	76.8	230.5
158	96.1	48.4	145.0

Manual Integrations
APPROVED

MMDadoda
9/4/2019 4:57:58 PM



#78

n-propylbenzene

Concen: 18.002 ug/l

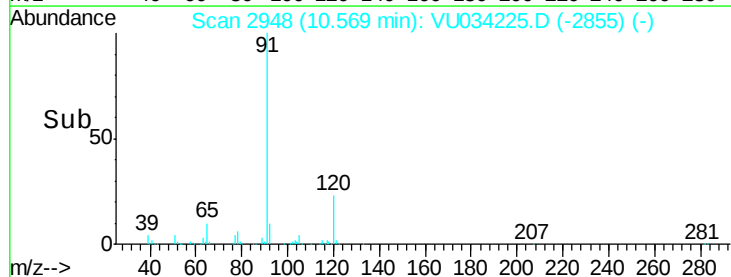
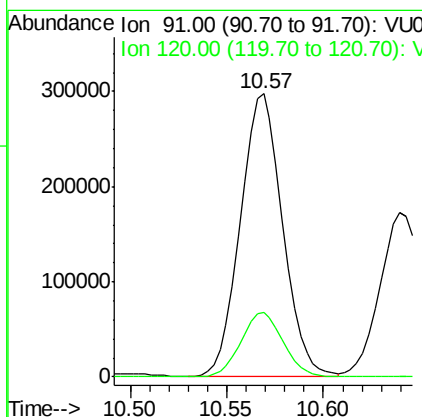
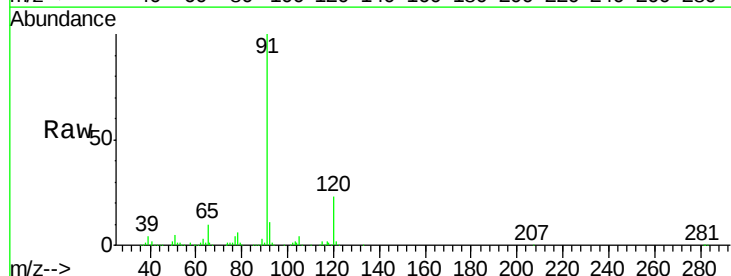
RT: 10.57 min Scan# 2948

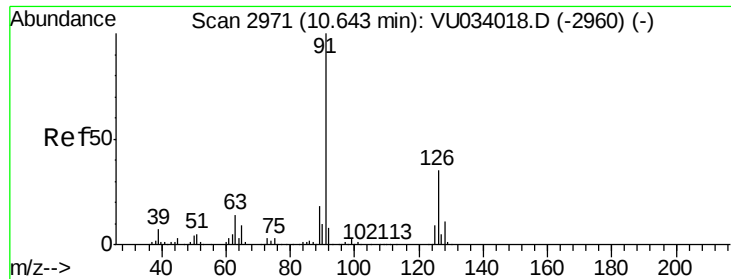
Delta R.T. 0.00 min

Lab File: VU034225.D

Acq: 03 Sep 2019 14:38

Tgt Ion:	91	Resp:	451018
Ion Ratio	Lower	Upper	
91	100		
120	22.8	11.7	35.0





#79

2-Chlorotoluene

Concen: 18.290 ug/l

RT: 10.64 min Scan# 2970

Delta R.T. -0.00 min

Lab File: VU034225.D

Acq: 03 Sep 2019 14:38

Instrument :

MSVOA_U

ClientSampleId :

VU0904WBSD01

Tot Ion: 91 Resp: 274865

Ion Ratio Lower Upper

91 100

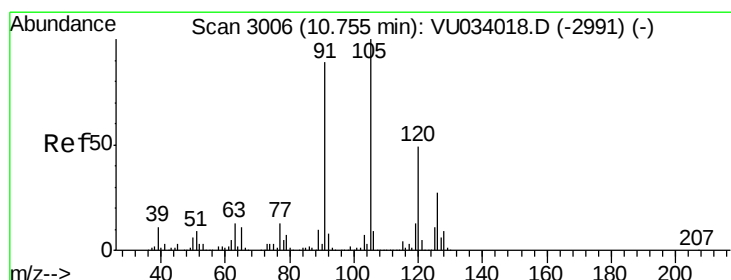
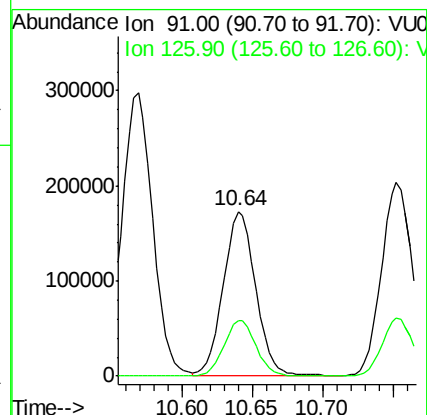
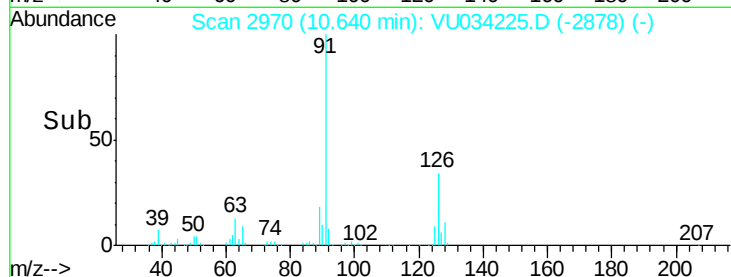
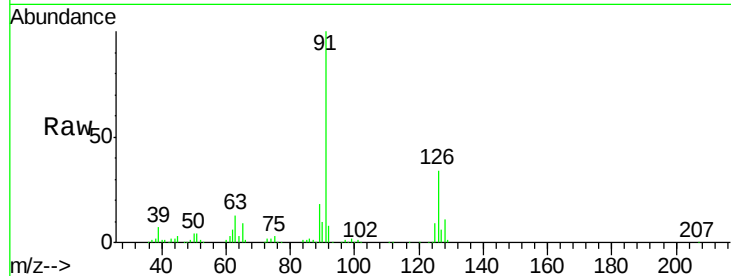
126 33.8 17.1 51.2

Manual Integrations

APPROVED

MMDadoda

9/4/2019 4:57:58 PM



#80

1,3,5-Trimethylbenzene

Concen: 18.584 ug/l

RT: 10.75 min Scan# 3005

Delta R.T. -0.00 min

Lab File: VU034225.D

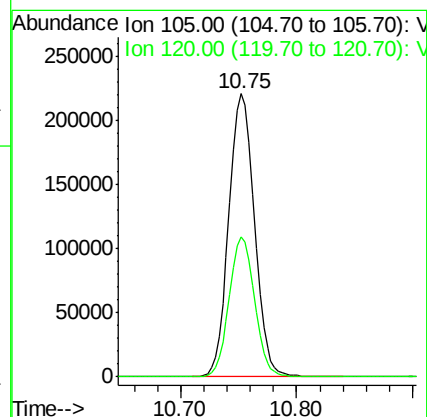
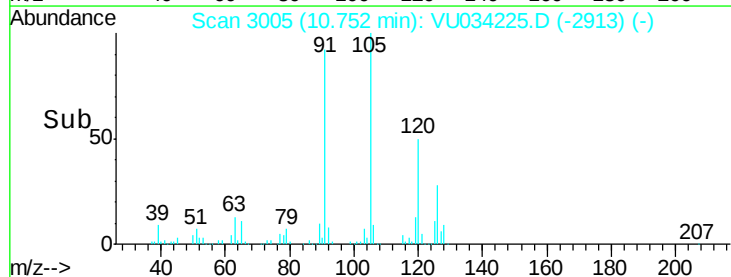
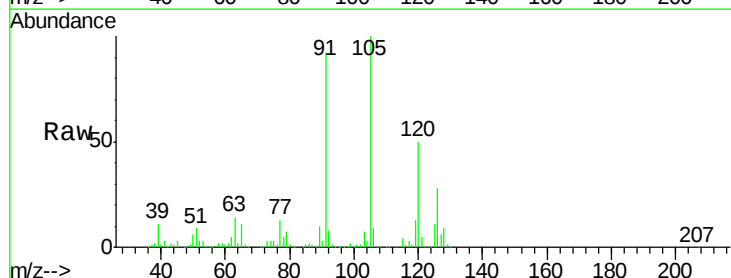
Acq: 03 Sep 2019 14:38

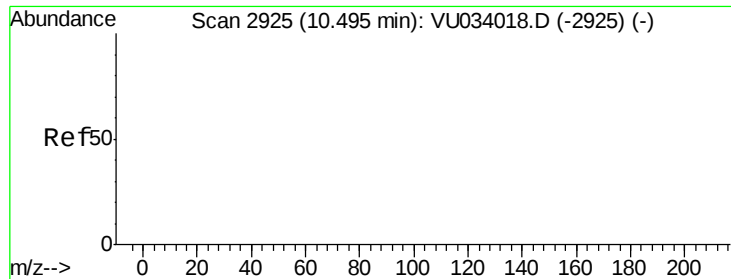
Tgt Ion: 105 Resp: 338856

Ion Ratio Lower Upper

105 100

120 49.0 24.6 73.6





#81

trans-1,4-Dichloro-2-butene

Concen: 18.044 ug/l m

RT: 10.49 min Scan# 2924

Delta R.T. -0.00 min

Lab File: VU034225.D

Acq: 03 Sep 2019 14:38

Instrument :

MSVOA_U

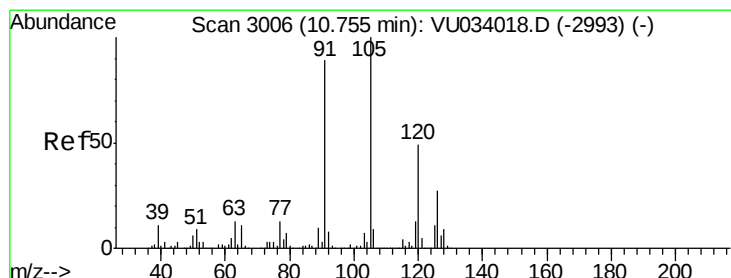
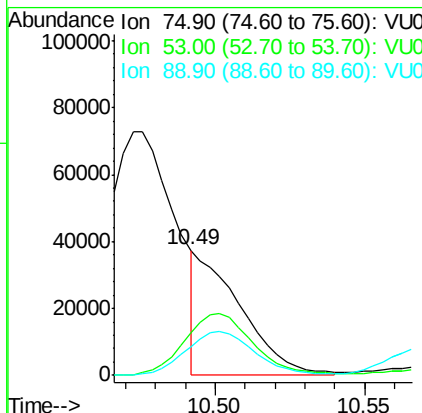
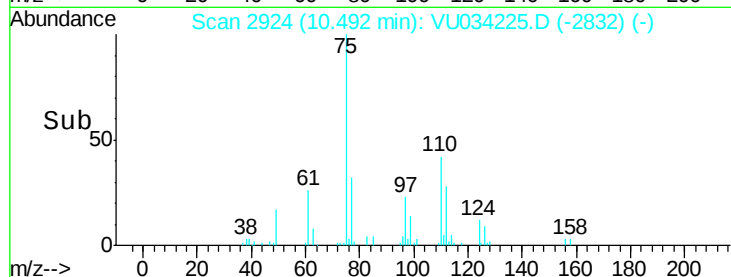
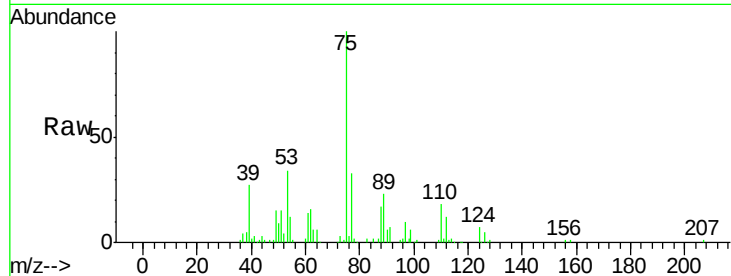
ClientSampleId :

VU0904WBSD01

Tot Ion:	75	Resp:	38683
Ion Ratio	Lower	Upper	
75	100		
53	0.0	0.0	0.0
89	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
9/4/2019 4:57:58 PM



#82

4-Chlorotoluene

Concen: 18.364 ug/l

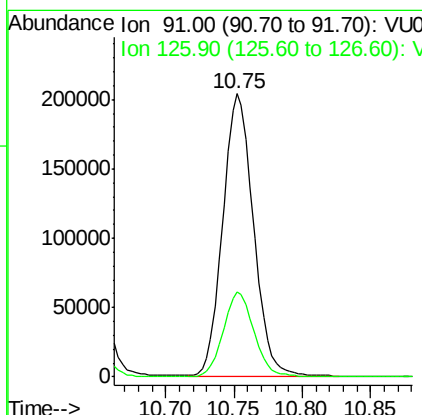
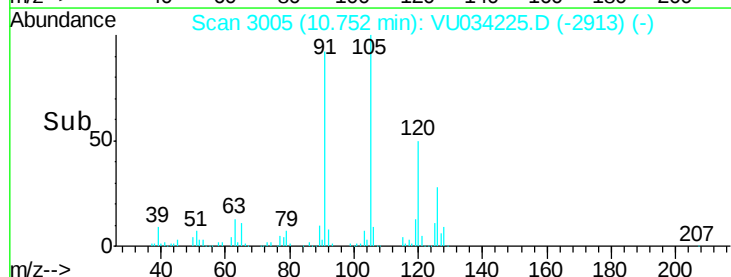
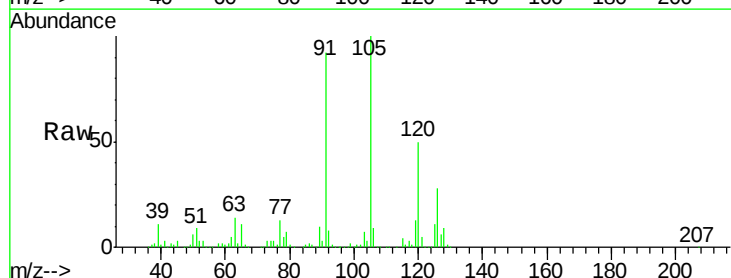
RT: 10.75 min Scan# 3005

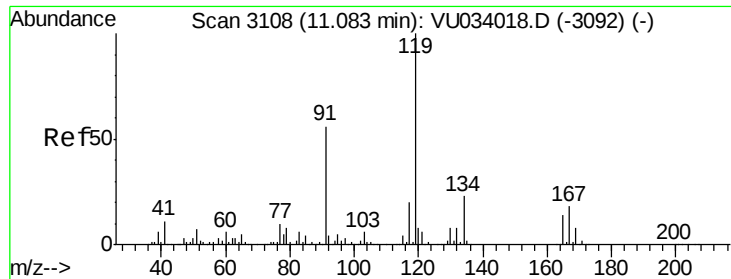
Delta R.T. -0.00 min

Lab File: VU034225.D

Acq: 03 Sep 2019 14:38

Tgt Ion:	91	Resp:	317382
Ion Ratio	Lower	Upper	
91	100		
126	30.0	15.0	45.1





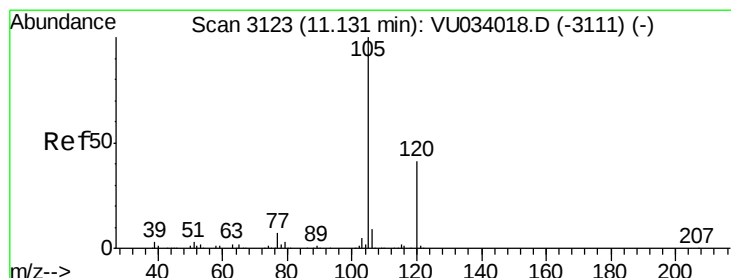
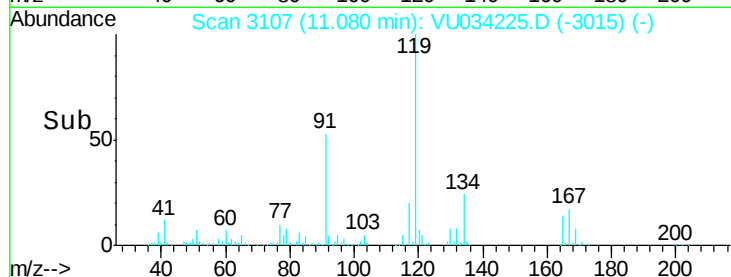
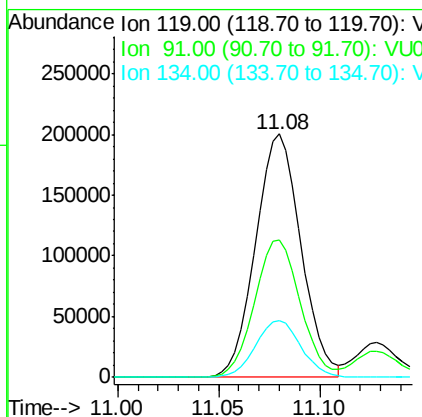
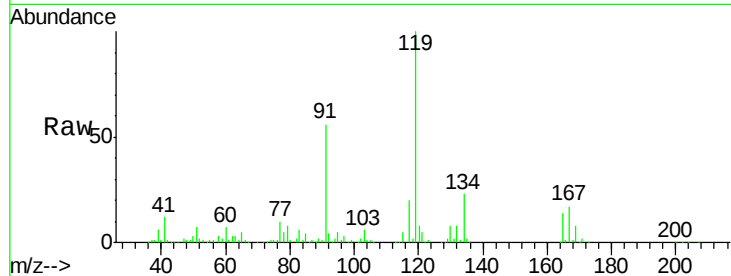
#83
 tert-Butylbenzene
 Concen: 17.532 ug/l
 RT: 11.08 min Scan# 3107
 Delta R.T. -0.00 min
 Lab File: VU034225.D
 Acq: 03 Sep 2019 14:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0904WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	314696		
91	56.7	27.9	83.6	
134	23.3	11.4	34.2	

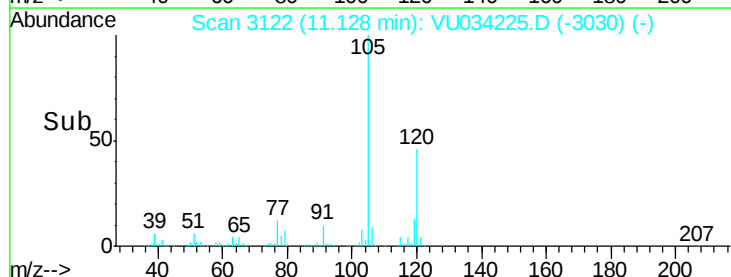
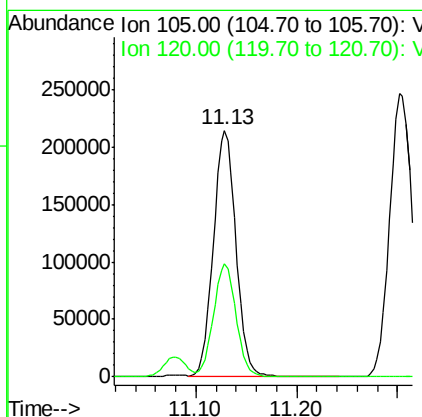
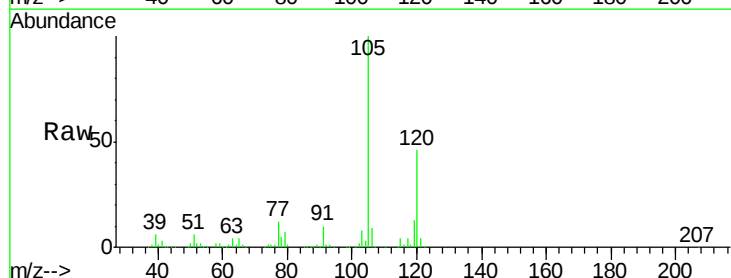
Manual Integrations
 APPROVED

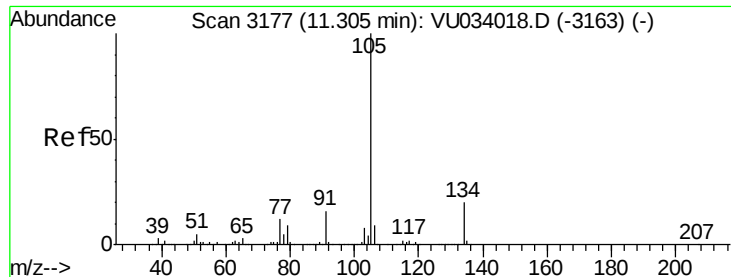
MMDadoda
 9/4/2019 4:57:58 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 18.372 ug/l
 RT: 11.13 min Scan# 3122
 Delta R.T. -0.00 min
 Lab File: VU034225.D
 Acq: 03 Sep 2019 14:38

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	332636		
120	46.0	22.6	67.8	





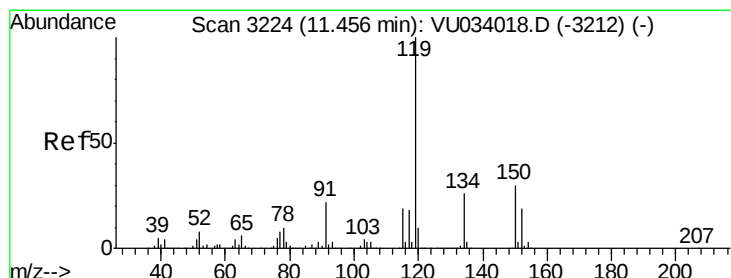
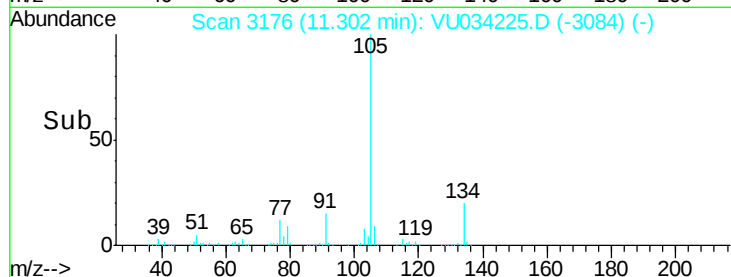
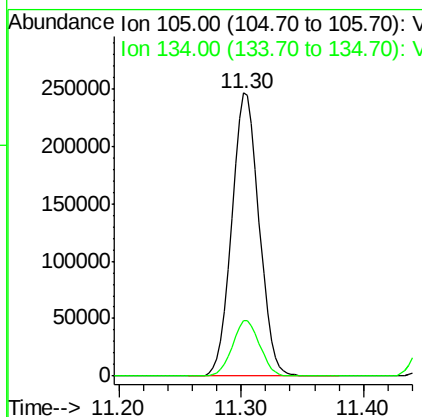
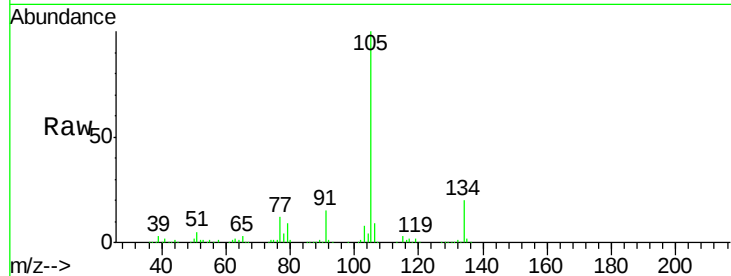
#85
 sec-Butylbenzene
 Concen: 17.811 ug/l
 RT: 11.30 min Scan# 3176
 Delta R.T. -0.00 min
 Lab File: VU034225.D
 Acq: 03 Sep 2019 14:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0904WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
105	100	383191		
134	19.7	10.0	30.0	

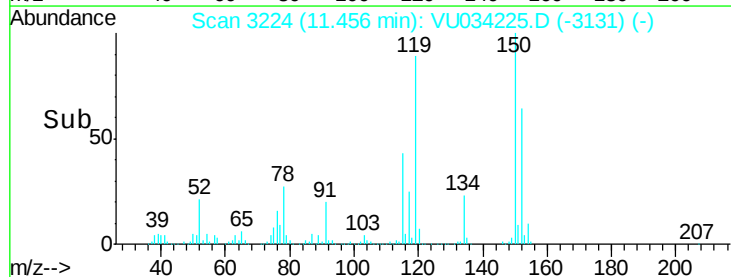
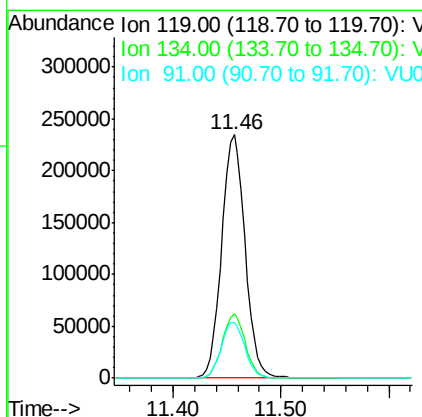
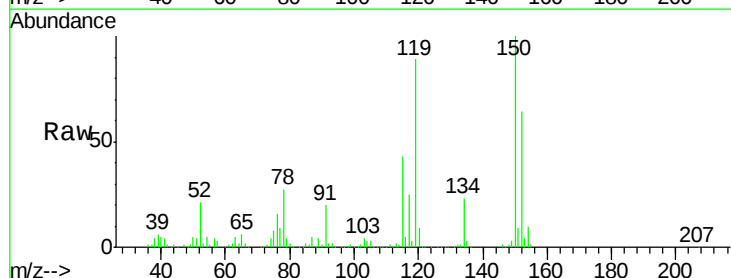
Manual Integrations
 APPROVED

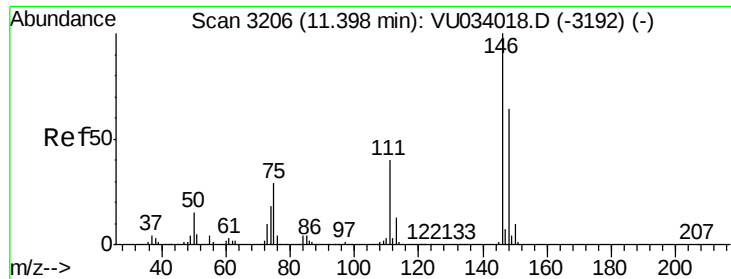
MMDadoda
 9/4/2019 4:57:58 PM



#86
 p-Isopropyltoluene
 Concen: 18.100 ug/l
 RT: 11.46 min Scan# 3224
 Delta R.T. 0.00 min
 Lab File: VU034225.D
 Acq: 03 Sep 2019 14:38

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	352190		
134	26.3	13.1	39.1	
91	23.1	11.2	33.6	





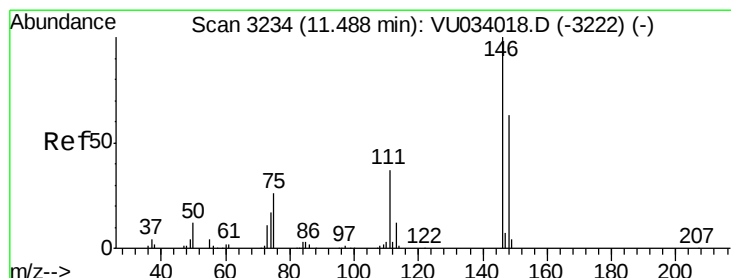
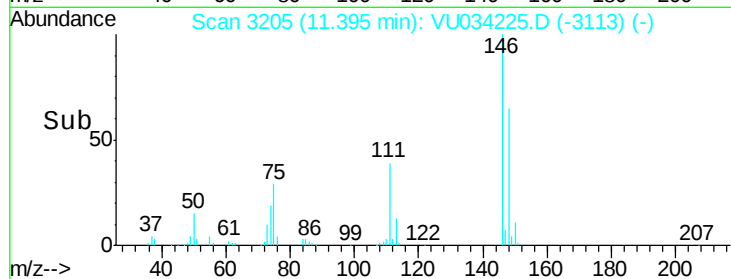
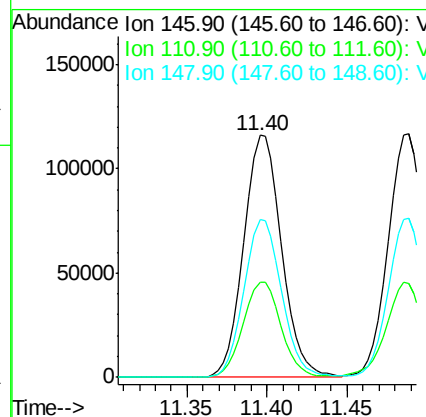
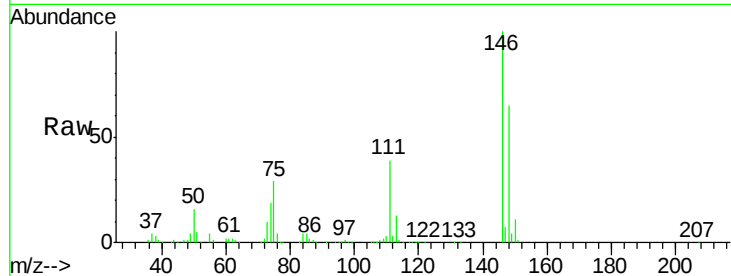
#87
 1,3-Dichlorobenzene
 Concen: 18.284 ug/l
 RT: 11.40 min Scan# 3205
 Delta R.T. -0.00 min
 Lab File: VU034225.D
 Acq: 03 Sep 2019 14:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0904WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.3	19.9	59.6
148	64.9	31.9	95.5

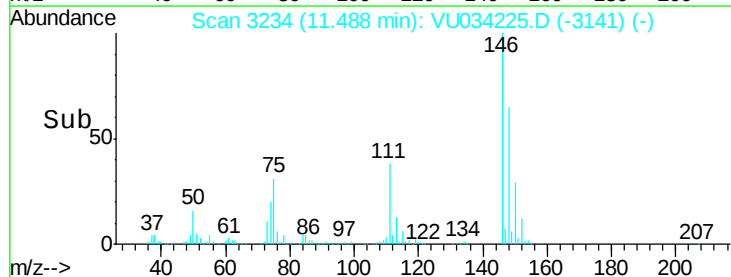
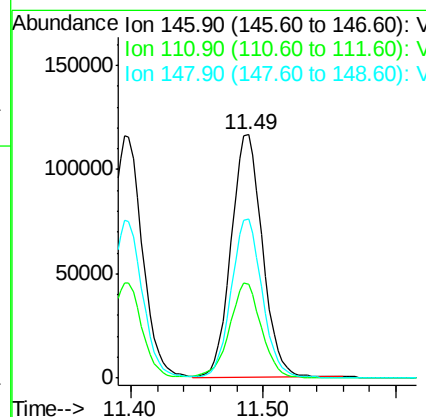
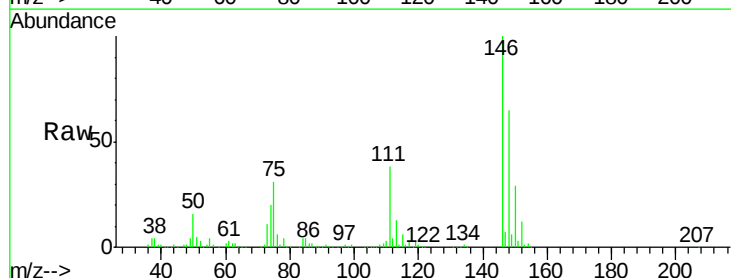
Manual Integrations
 APPROVED

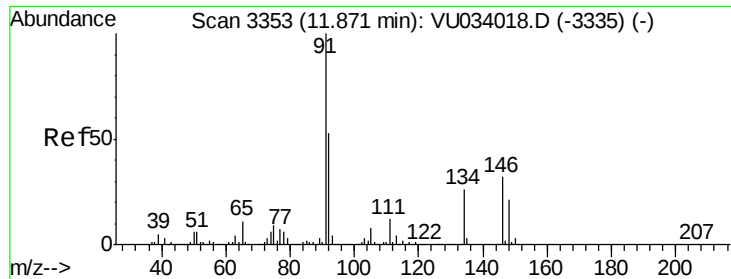
MMDadoda
 9/4/2019 4:57:58 PM



#88
 1,4-Dichlorobenzene
 Concen: 18.432 ug/l
 RT: 11.49 min Scan# 3234
 Delta R.T. 0.00 min
 Lab File: VU034225.D
 Acq: 03 Sep 2019 14:38

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.0	19.2	57.6
148	64.9	31.9	95.9





#89

n-Butylbenzene

Concen: 17.434 ug/l

RT: 11.87 min Scan# 3352

Delta R.T. -0.00 min

Lab File: VU034225.D

Acq: 03 Sep 2019 14:38

Instrument :

MSVOA_U

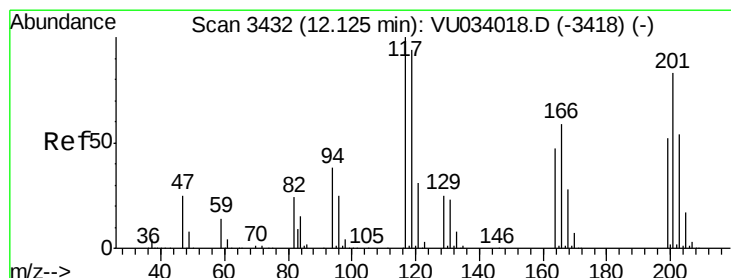
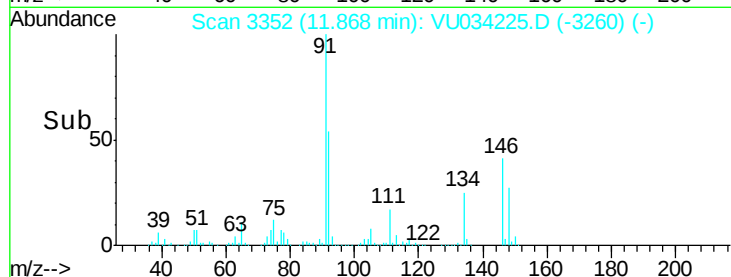
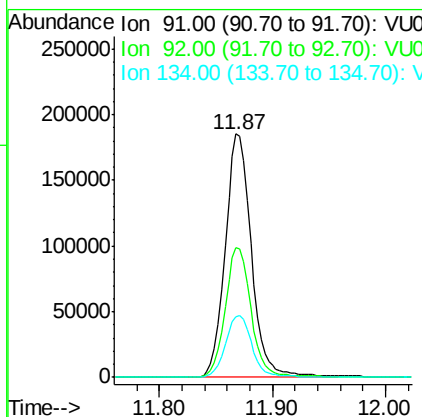
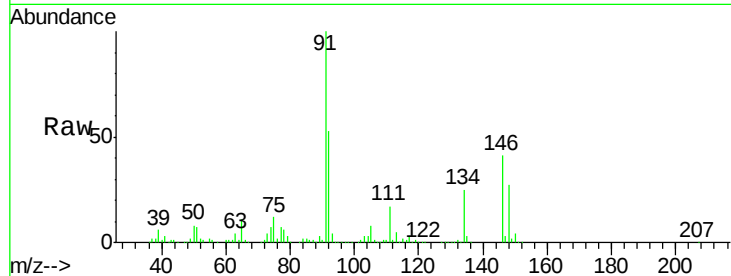
ClientSampleID :

VU0904WBSD01

Tot Ion:	91	Resp:	299084
Ion	Ratio	Lower	Upper
91	100		
92	52.9	26.3	78.9
134	25.7	12.9	38.7

Manual Integrations
APPROVED

MMDadoda
9/4/2019 4:57:58 PM



#90

Hexachloroethane

Concen: 15.301 ug/l

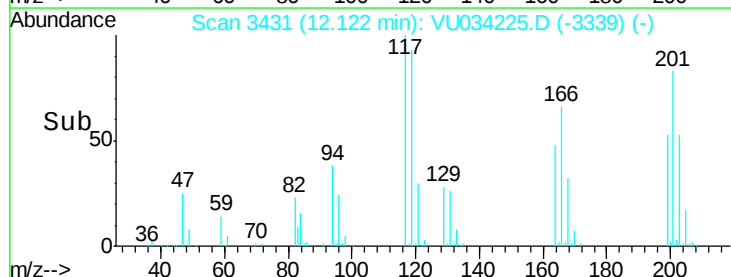
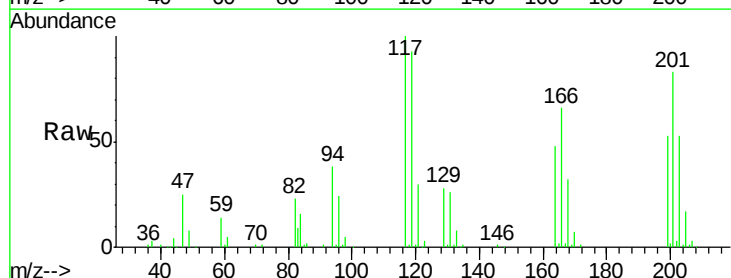
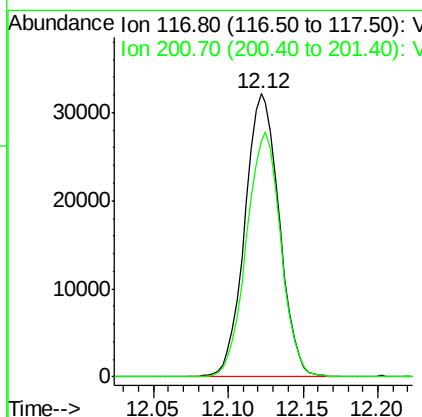
RT: 12.12 min Scan# 3431

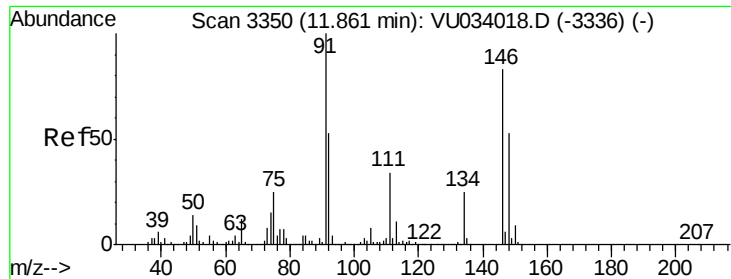
Delta R.T. -0.00 min

Lab File: VU034225.D

Acq: 03 Sep 2019 14:38

Tgt Ion:	117	Resp:	51474
Ion	Ratio	Lower	Upper
117	100		
201	86.2	42.5	127.6





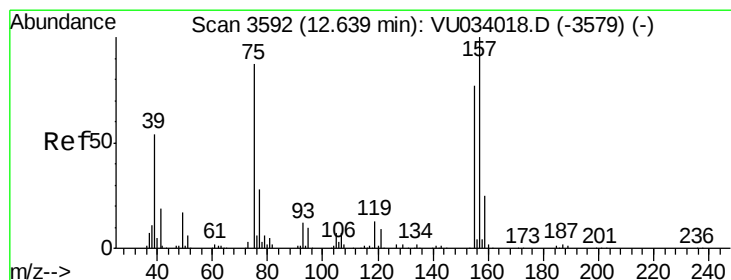
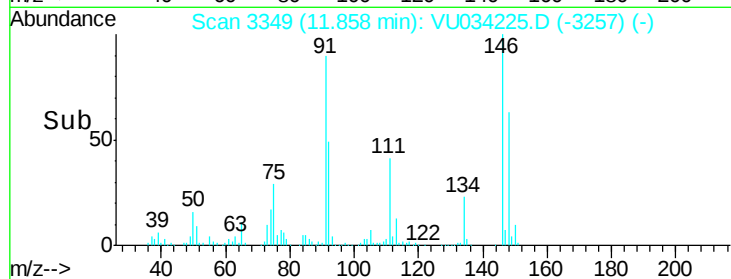
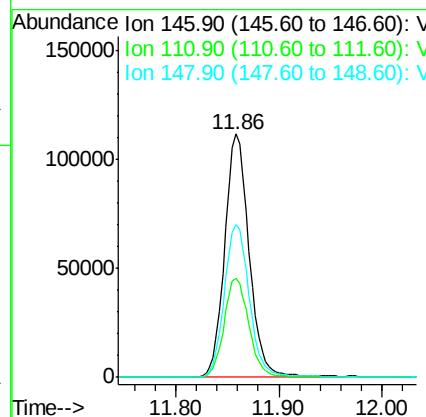
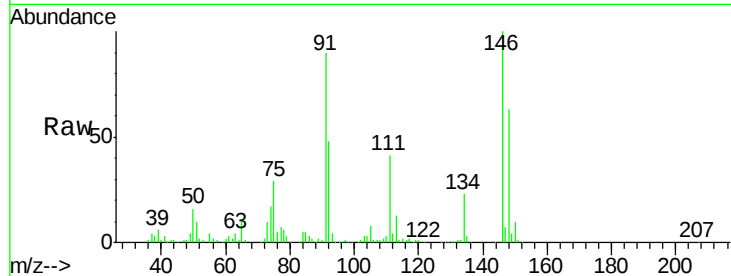
#91
 1,2-Dichlorobenzene
 Concen: 18.863 ug/l
 RT: 11.86 min Scan# 3349
 Delta R.T. -0.00 min
 Lab File: VU034225.D
 Acq: 03 Sep 2019 14:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0904WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	185132		
111	41.0	20.4	61.2	
148	64.1	32.3	96.8	

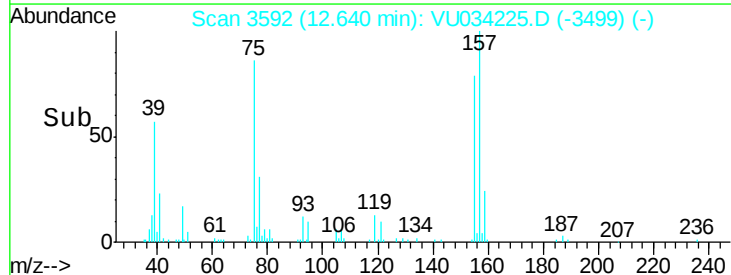
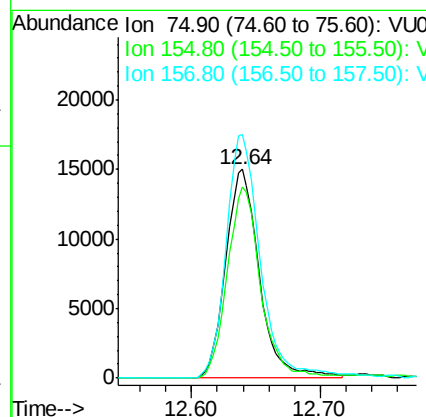
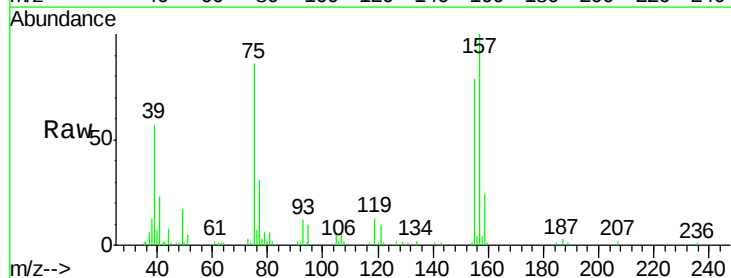
Manual Integrations
 APPROVED

MMDadoda
 9/4/2019 4:57:58 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 16.625 ug/l
 RT: 12.64 min Scan# 3592
 Delta R.T. 0.00 min
 Lab File: VU034225.D
 Acq: 03 Sep 2019 14:38

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	27272		
155	90.6	43.5	130.7	
157	117.9	56.9	170.6	





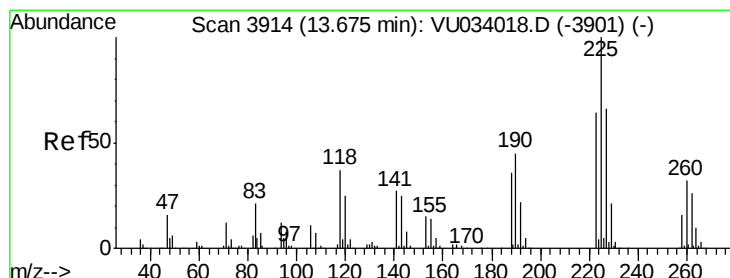
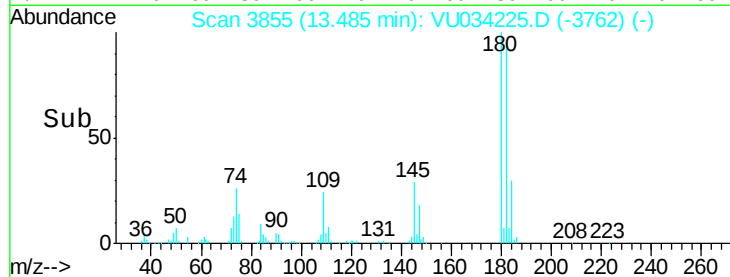
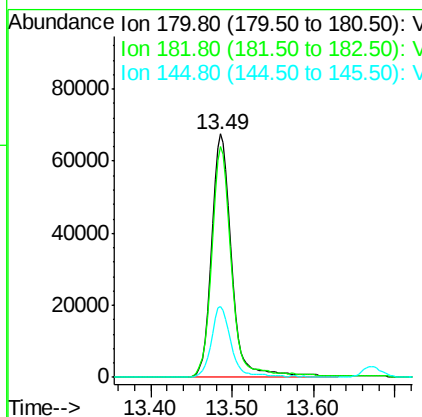
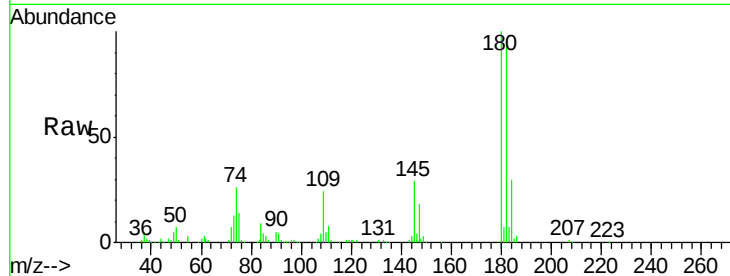
#93
 1,2,4-Trichlorobenzene
 Concen: 17.643 ug/l
 RT: 13.49 min Scan# 3855
 Delta R.T. 0.00 min
 Lab File: VU034225.D
 Acq: 03 Sep 2019 14:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0904WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	118018		
182	91.9	47.4	142.2	
145	28.3	14.1	42.3	

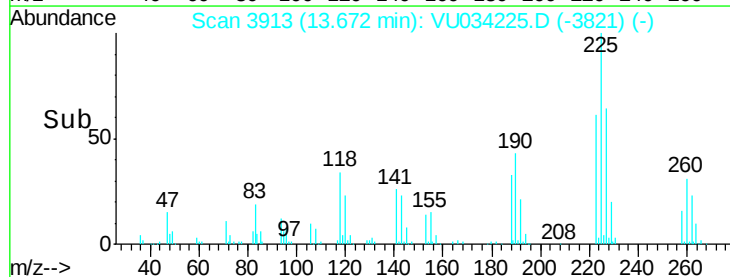
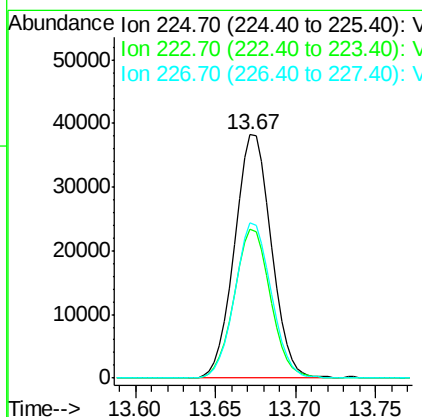
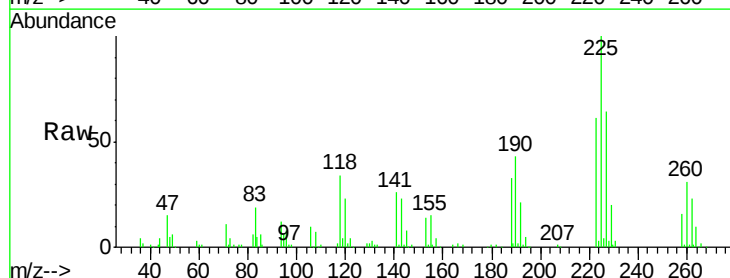
Manual Integrations
 APPROVED

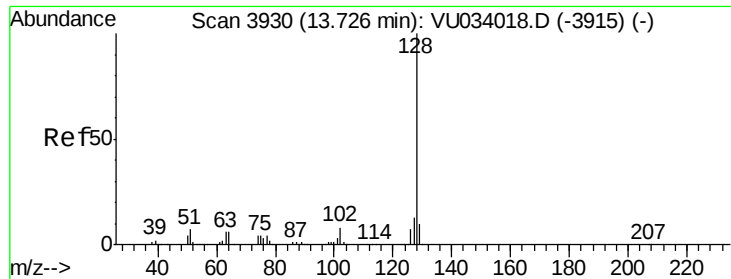
MMDadoda
 9/4/2019 4:57:58 PM



#94
 Hexachlorobutadiene
 Concen: 15.576 ug/l
 RT: 13.67 min Scan# 3913
 Delta R.T. -0.00 min
 Lab File: VU034225.D
 Acq: 03 Sep 2019 14:38

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	59802		
223	60.4	31.8	95.3	
227	63.1	32.6	97.8	





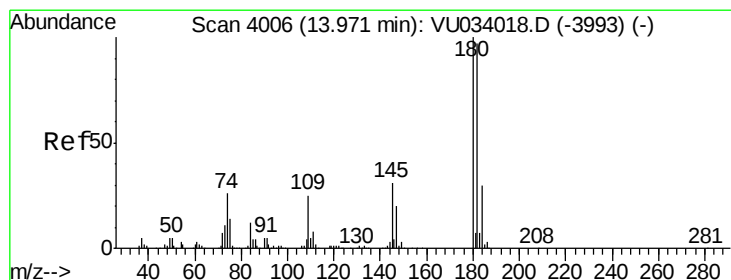
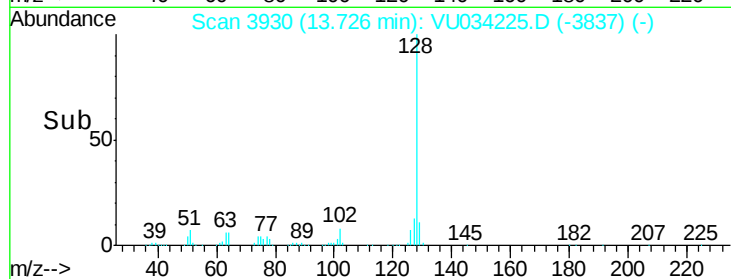
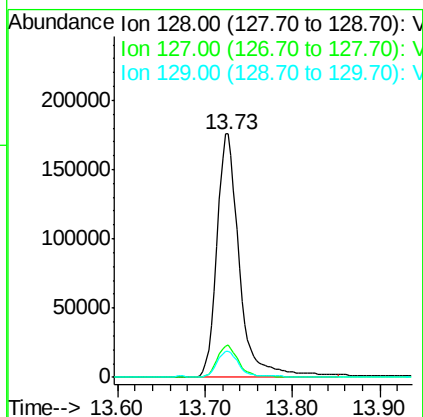
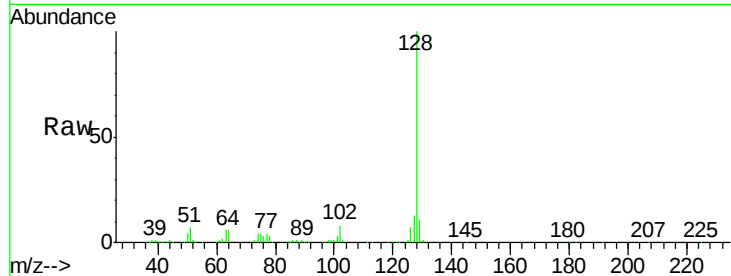
#95
Naphthalene
Concen: 17.083 ug/l
RT: 13.73 min Scan# 3930
Delta R.T. 0.00 min
Lab File: VU034225.D
Acq: 03 Sep 2019 14:38

Instrument :
MSVOA_U
ClientSampleId :
VU0904WBSD01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.4
129	10.5	8.4	12.6

Manual Integrations
APPROVED

MMDadoda
9/4/2019 4:57:58 PM



#96
1,2,3-Trichlorobenzene
Concen: 18.441 ug/l
RT: 13.97 min Scan# 4005
Delta R.T. -0.00 min
Lab File: VU034225.D
Acq: 03 Sep 2019 14:38

Tgt Ion	Ratio	Lower	Upper
180	100		
182	98.4	48.2	144.6
145	30.6	15.5	46.5

