

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090619\
 Data File : VU034292.D
 Acq On : 05 Sep 2019 18:38
 Operator : JC/SP
 Sample : VU0906WBSD02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0906WBSD02

Manual Integrations
 APPROVED

MMDadoda
 9/6/2019 3:22:18 PM

Quant Time: Sep 06 08:21:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 06 05:10:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	314373	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	467001	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	467378	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	305028	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.29	65	246830	51.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.78%	
35) Dibromofluoromethane	4.86	113	212608	48.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.86%	
50) Toluene-d8	7.55	98	846687	51.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.72%	
62) 4-Bromofluorobenzene	10.29	95	312722	49.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.22%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	62254	18.934	ug/l	97
3) Chloromethane	1.32	50	75181	21.115	ug/l	98
4) Vinyl Chloride	1.40	62	78438	19.145	ug/l	99
5) Bromomethane	1.62	94	48529	20.858	ug/l	99
6) Chloroethane	1.69	64	50257	20.514	ug/l	99
7) Trichlorofluoromethane	1.88	101	106440	19.376	ug/l	100
8) Diethyl Ether	2.10	74	48195	19.945	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	2.28	101	71439	19.634	ug/l	99
10) Methyl Iodide	2.40	142	43567	15.927	ug/l	98
11) Tert butyl alcohol	2.81	59	101007	100.516	ug/l	97
12) 1,1-Dichloroethene	2.27	96	66670	19.492	ug/l	98
13) Acrolein	2.18	56	64057	75.843	ug/l	96
14) Allyl chloride	2.58	41	127103m	19.437	ug/l	
15) Acrylonitrile	2.92	53	261737	104.594	ug/l	97
16) Acetone	2.31	43	214012	86.944	ug/l	99
17) Carbon Disulfide	2.47	76	140307	18.252	ug/l	100
18) Methyl Acetate	2.60	43	115713	19.319	ug/l	99
19) Methyl tert-butyl Ether	2.98	73	263001	21.096	ug/l	98
20) Methylene Chloride	2.69	84	86897	21.324	ug/l	99
21) trans-1,2-Dichloroethene	2.97	96	73030	20.261	ug/l	97
22) Diisopropyl ether	3.55	45	271913	21.323	ug/l	95
23) Vinyl Acetate	3.51	43	1106132	106.487	ug/l	100
24) 1,1-Dichloroethane	3.43	63	150143	19.715	ug/l	100
25) 2-Butanone	4.24	43	334632	101.843	ug/l	100
26) 2,2-Dichloropropane	4.20	77	116721	19.056	ug/l	99
27) cis-1,2-Dichloroethene	4.21	96	90235	20.613	ug/l	99
28) Bromochloromethane	4.53	49	71062	20.287	ug/l	100
29) Tetrahydrofuran	4.62	42	213725	106.894	ug/l	99
30) Chloroform	4.65	83	154246	19.926	ug/l	98
31) Cyclohexane	4.97	56	111819	20.070	ug/l	95
32) 1,1,1-Trichloroethane	4.89	97	125865	20.337	ug/l	99
36) 1,1-Dichloropropene	5.12	75	96912	19.135	ug/l	99
37) Ethyl Acetate	4.36	43	120247	20.081	ug/l	99
38) Carbon Tetrachloride	5.11	117	105433	19.497	ug/l	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090619\
 Data File : VU034292.D
 Acq On : 05 Sep 2019 18:38
 Operator : JC/SP
 Sample : VU0906WBSD02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0906WBSD02

Manual Integrations
 APPROVED

MMDadoda
 9/6/2019 3:22:18 PM

Quant Time: Sep 06 08:21:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 06 05:10:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.40	83	105329	19.454	ug/l	98
40) Benzene	5.37	78	326243	19.963	ug/l	100
41) Methacrylonitrile	4.52	41	67451	21.147	ug/l	99
42) 1,2-Dichloroethane	5.38	62	111434	19.639	ug/l	100
43) Isopropyl Acetate	5.53	43	188229	20.150	ug/l	98
44) Trichloroethene	6.17	130	89453	19.780	ug/l	96
45) 1,2-Dichloropropane	6.41	63	94882	19.860	ug/l	99
46) Dibromomethane	6.54	93	59498	19.840	ug/l	99
47) Bromodichloromethane	6.74	83	119981	19.436	ug/l	98
48) Methyl methacrylate	6.60	41	86824	19.569	ug/l	98
49) 1,4-Dioxane	6.59	88	36608	377.859	ug/l	99
51) 4-Methyl-2-Pentanone	7.44	43	653184	101.017	ug/l	100
52) Toluene	7.62	92	205445	20.040	ug/l	97
53) t-1,3-Dichloropropene	7.86	75	123304	19.269	ug/l	98
54) cis-1,3-Dichloropropene	7.25	75	140329	19.981	ug/l	99
55) 1,1,2-Trichloroethane	8.05	97	90067	19.348	ug/l	100
56) Ethyl methacrylate	8.00	69	130301	20.367	ug/l	98
57) 1,3-Dichloropropane	8.22	76	148348	19.571	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.11	63	203792	96.126	ug/l	98
59) 2-Hexanone	8.34	43	483984	100.194	ug/l	100
60) Dibromochloromethane	8.46	129	99086	19.845	ug/l	100
61) 1,2-Dibromoethane	8.57	107	90208	19.799	ug/l	99
64) Tetrachloroethene	8.21	164	78758	19.424	ug/l	98
65) Chlorobenzene	9.10	112	235586	19.868	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.19	131	87931	19.431	ug/l	99
67) Ethyl Benzene	9.23	91	392130	20.226	ug/l	99
68) m/p-Xylenes	9.36	106	299303	40.996	ug/l	98
69) o-Xylene	9.76	106	147656	20.681	ug/l	100
70) Styrene	9.77	104	262536	20.973	ug/l	99
71) Bromoform	9.94	173	76261	19.445	ug/l #	100
73) Isopropylbenzene	10.15	105	404491	20.377	ug/l	100
74) N-amyl acetate	10.00	43	160654	20.106	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.44	83	157584	19.612	ug/l	99
76) 1,2,3-Trichloropropane	10.48	75	127199m	19.104	ug/l	
77) Bromobenzene	10.43	156	110292	19.871	ug/l	100
78) n-propylbenzene	10.57	91	468693	20.444	ug/l	100
79) 2-Chlorotoluene	10.64	91	284656	20.350	ug/l	100
80) 1,3,5-Trimethylbenzene	10.75	105	355310	21.402	ug/l	98
81) trans-1,4-Dichloro-2-buten	10.49	75	41068m	20.743	ug/l	
82) 4-Chlorotoluene	10.75	91	329663	20.479	ug/l	99
83) tert-Butylbenzene	11.08	119	337602	20.328	ug/l	99
84) 1,2,4-Trimethylbenzene	11.13	105	350319	20.963	ug/l	99
85) sec-Butylbenzene	11.30	105	411486	20.987	ug/l	99
86) p-Isopropyltoluene	11.46	119	374777	20.709	ug/l	100
87) 1,3-Dichlorobenzene	11.40	146	198721	19.620	ug/l	100
88) 1,4-Dichlorobenzene	11.49	146	205707	19.472	ug/l	98
89) n-Butylbenzene	11.87	91	321038	20.414	ug/l	99
90) Hexachloroethane	12.12	117	53900	18.616	ug/l	100
91) 1,2-Dichlorobenzene	11.86	146	199825	20.075	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	12.64	75	29970	20.298	ug/l	99

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU090619\
Data File : VU034292.D
Acq On : 05 Sep 2019 18:38
Operator : JC/SP
Sample : VU0906WBSD02
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VU0906WBSD02

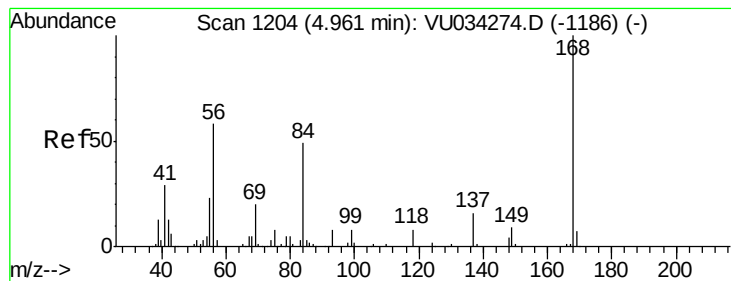
Manual Integrations
APPROVED

MMDadoda
9/6/2019 3:22:18 PM

Quant Time: Sep 06 08:21:55 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
Quant Title : SW846 8260
QLast Update : Fri Sep 06 05:10:13 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.49	180	125645	19.654	ug/l	99
94) Hexachlorobutadiene	13.67	225	64830	18.619	ug/l	99
95) Naphthalene	13.73	128	342271	19.467	ug/l	99
96) 1,2,3-Trichlorobenzene	13.97	180	129939	20.290	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: VU034292.D

Acq: 05 Sep 2019 18:38

Instrument :

MSVOA_U

ClientSampleId :

VU0906WBSD02

Tot Ion:168 Resp: 314373

Ion Ratio Lower Upper

168 100

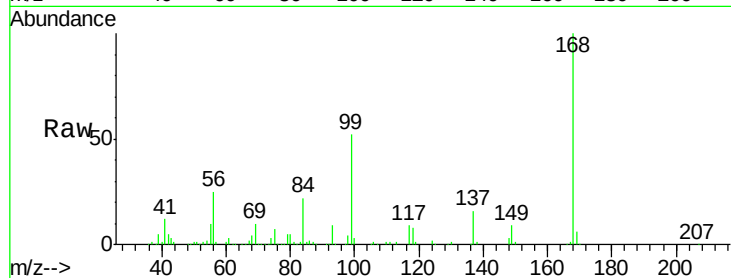
99 51.6 41.6 62.4

Manual Integrations

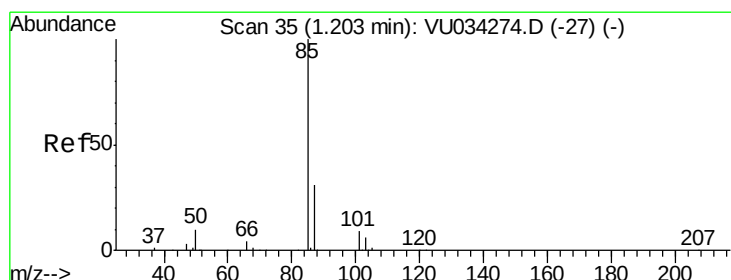
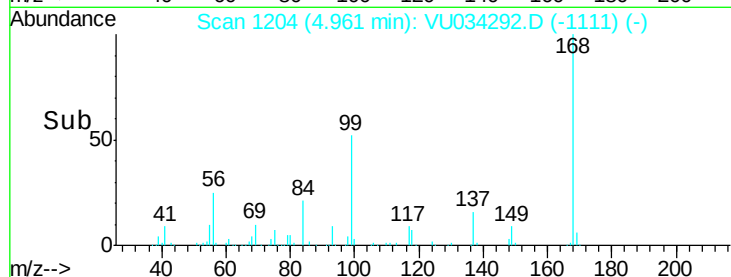
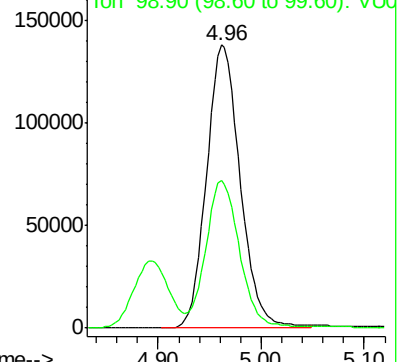
APPROVED

MMDadoda

9/6/2019 3:22:18 PM



Abundance Ion 167.90 (167.60 to 168.60): VU034274.D (-1186) (-)



#2

Dichlorodifluoromethane

Concen: 18.934 ug/l

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU034292.D

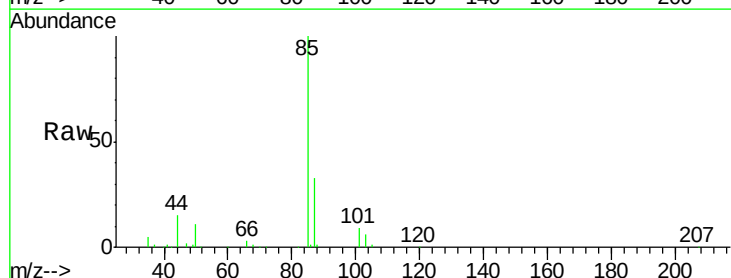
Acq: 05 Sep 2019 18:38

Tgt Ion: 85 Resp: 62254

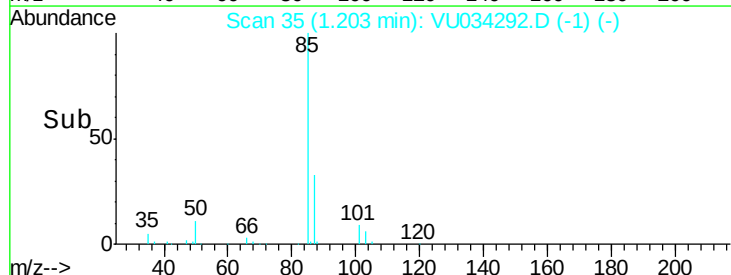
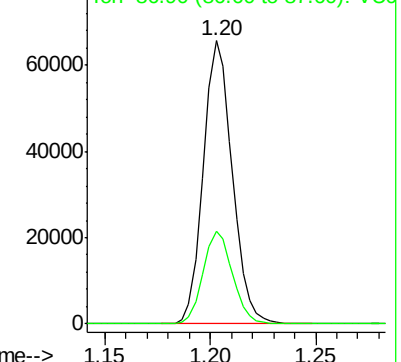
Ion Ratio Lower Upper

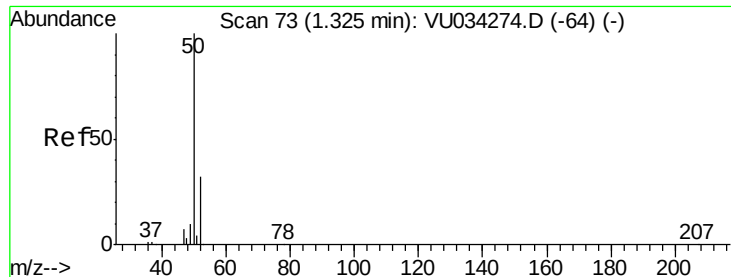
85 100

87 32.8 15.7 47.0



Abundance Ion 84.90 (84.60 to 85.60): VU034274.D (-27) (-)





#3

Chloromethane

Concen: 21.115 ug/l

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034292.D

Acq: 05 Sep 2019 18:38

Instrument :

MSVOA_U

ClientSampleId :

VU0906WBSD02

Tot Ion: 50 Resp: 75181

Ion Ratio Lower Upper

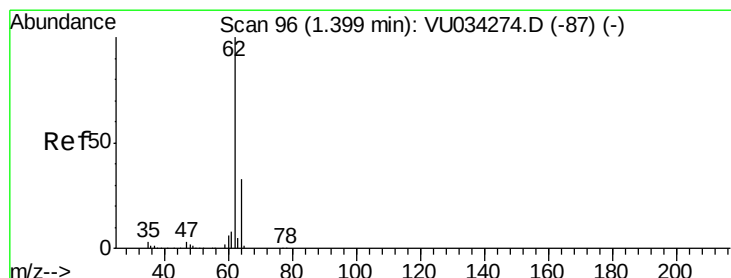
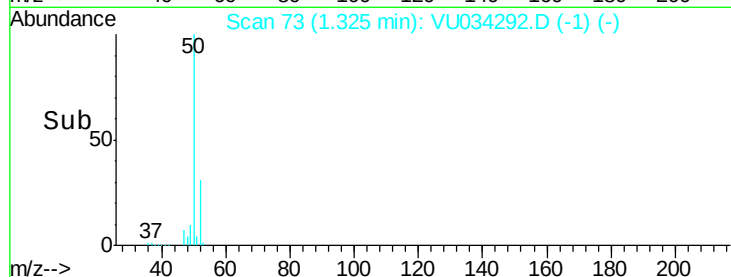
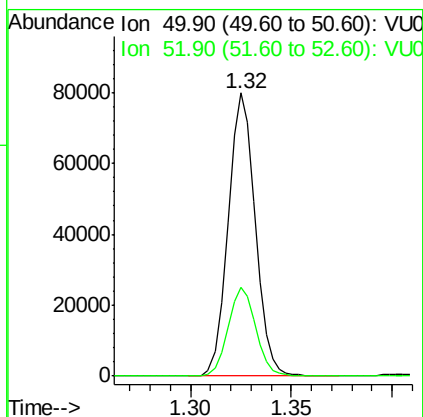
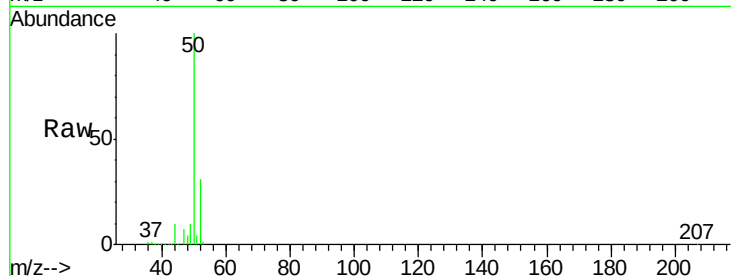
50 100

52 31.3 25.8 38.6

Manual Integrations
APPROVED

MMDadoda

9/6/2019 3:22:18 PM



#4

Vinyl Chloride

Concen: 19.145 ug/l

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU034292.D

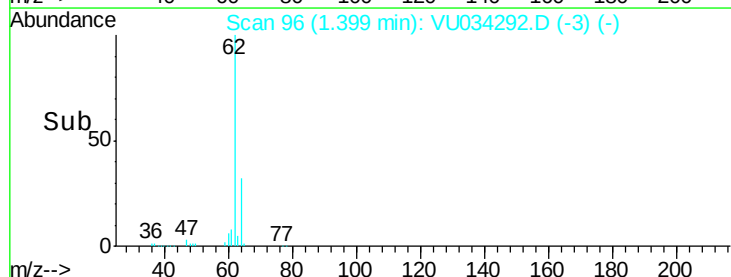
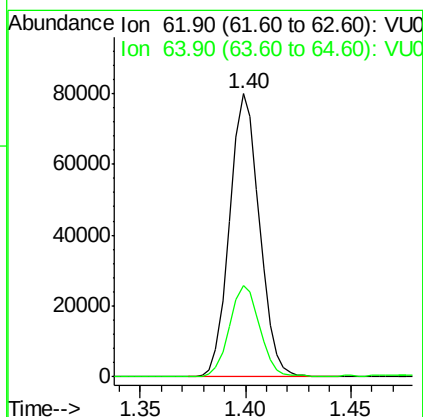
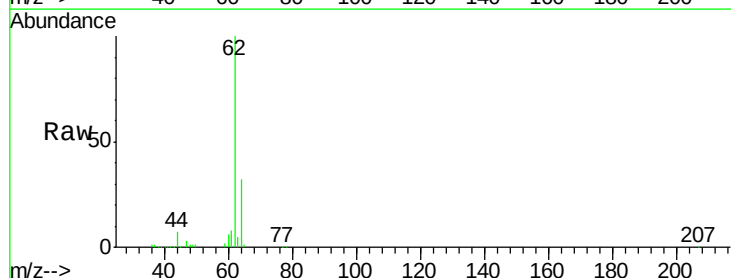
Acq: 05 Sep 2019 18:38

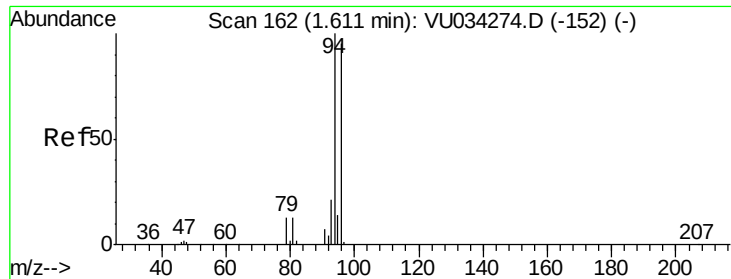
Tgt Ion: 62 Resp: 78438

Ion Ratio Lower Upper

62 100

64 32.4 26.2 39.4





#5

Bromomethane

Concen: 20.858 ug/l

RT: 1.62 min Scan# 165

Delta R.T. 0.01 min

Lab File: VU034292.D

Acq: 05 Sep 2019 18:38

Instrument :

MSVOA_U

ClientSampleId :

VU0906WBSD02

Tot Ion: 94 Resp: 48529

Ion Ratio Lower Upper

94 100

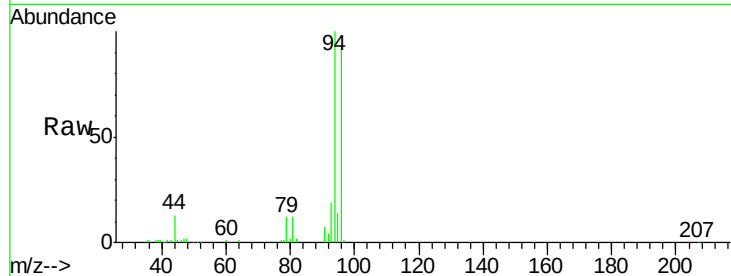
96 93.3 75.7 113.5

Manual Integrations

APPROVED

MMDadoda

9/6/2019 3:22:18 PM



Abundance Ion 93.90 (93.60 to 94.60): VU034292.D (-165) (-)

Ion 95.90 (95.60 to 96.60): VU034292.D (-165) (-)

1.62

40000

30000

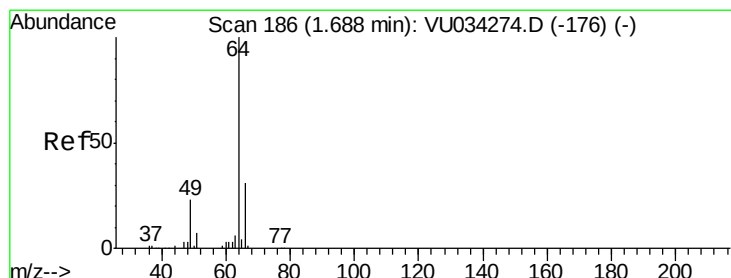
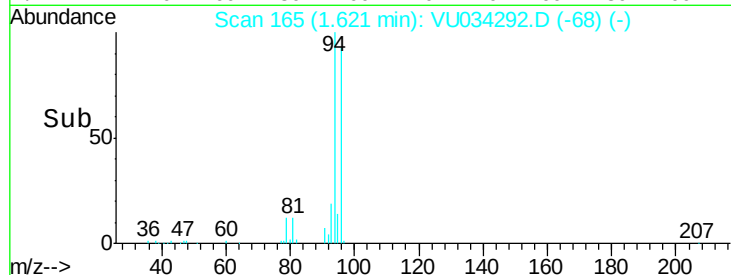
20000

10000

0

Time-->

1.55 1.60 1.65 1.70



#6

Chloroethane

Concen: 20.514 ug/l

RT: 1.69 min Scan# 188

Delta R.T. 0.01 min

Lab File: VU034292.D

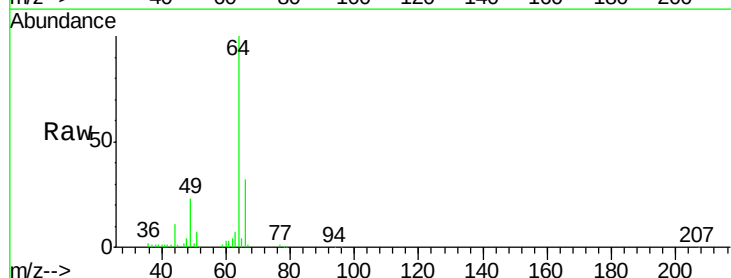
Acq: 05 Sep 2019 18:38

Tgt Ion: 64 Resp: 50257

Ion Ratio Lower Upper

64 100

66 32.0 25.0 37.6



Abundance Ion 63.90 (63.60 to 64.60): VU034292.D (-188) (-)

Ion 65.90 (65.60 to 66.60): VU034292.D (-188) (-)

1.69

40000

30000

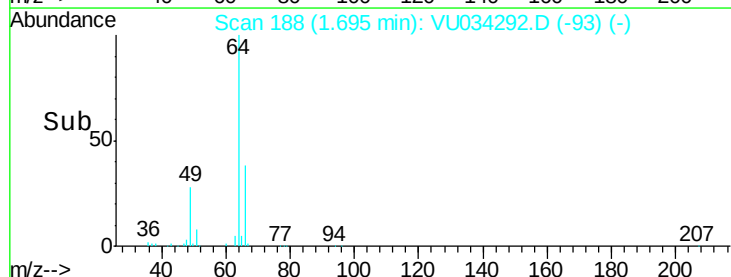
20000

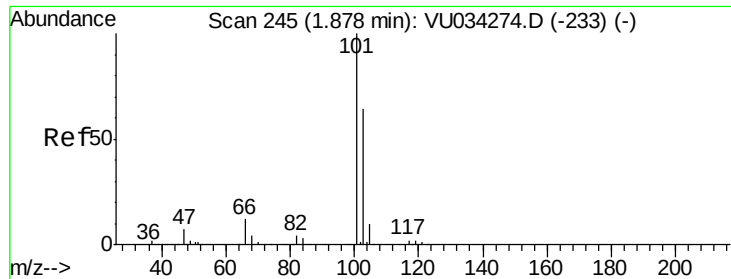
10000

0

Time-->

1.65 1.70 1.75





#7

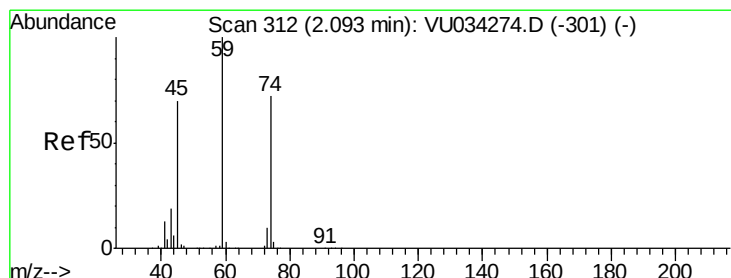
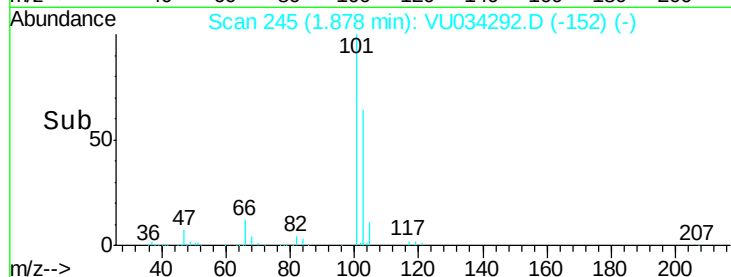
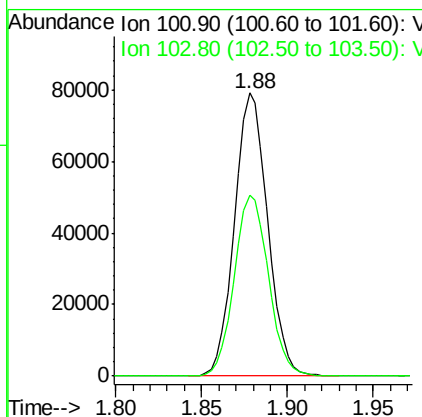
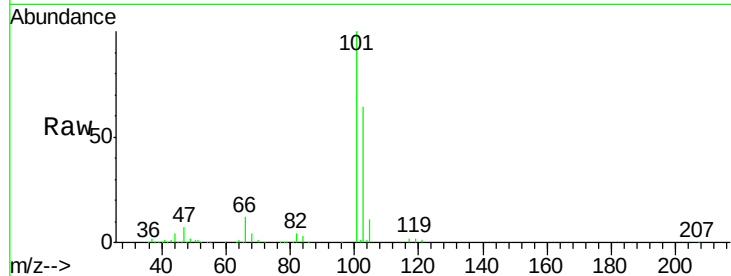
Trichlorofluoromethane
 Concen: 19.376 ug/l
 RT: 1.88 min Scan# 245
 Delta R.T. 0.00 min
 Lab File: VU034292.D
 Acq: 05 Sep 2019 18:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0906WBSD02

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.9	51.0	76.6

Manual Integrations
 APPROVED

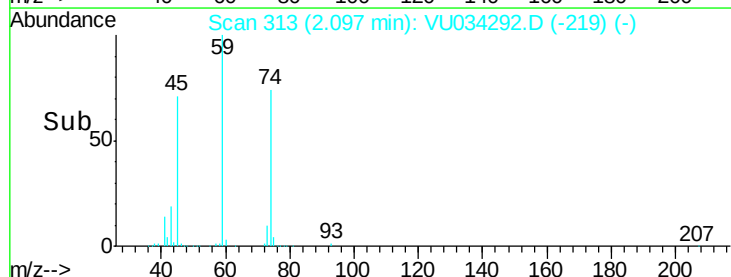
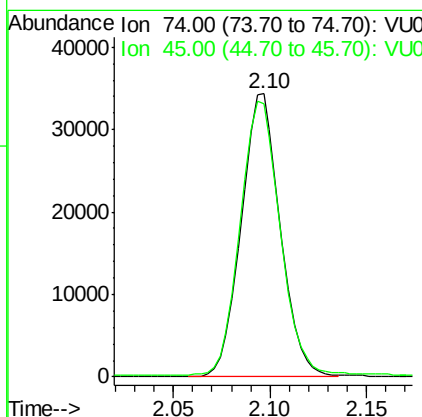
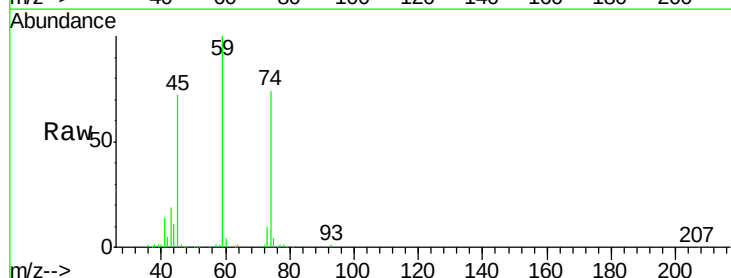
MMDadoda
 9/6/2019 3:22:18 PM

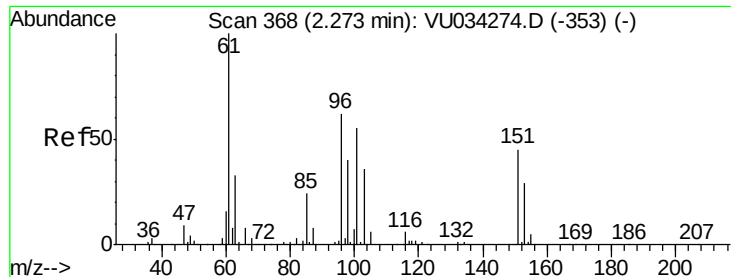


#8

Diethyl Ether
 Concen: 19.945 ug/l
 RT: 2.10 min Scan# 313
 Delta R.T. 0.00 min
 Lab File: VU034292.D
 Acq: 05 Sep 2019 18:38

Tgt Ion	Ratio	Lower	Upper
74	100		
45	99.0	48.2	144.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.634 ug/l

RT: 2.28 min Scan# 369

Delta R.T. 0.00 min

Lab File: VU034292.D

Acq: 05 Sep 2019 18:38

Instrument :

MSVOA_U

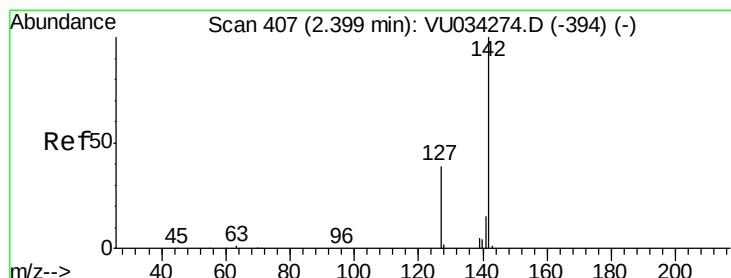
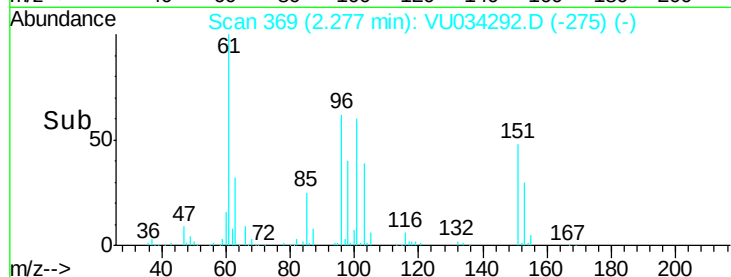
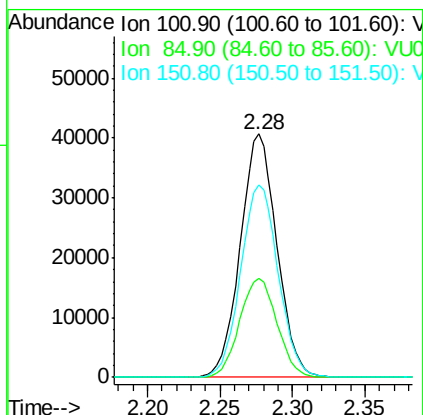
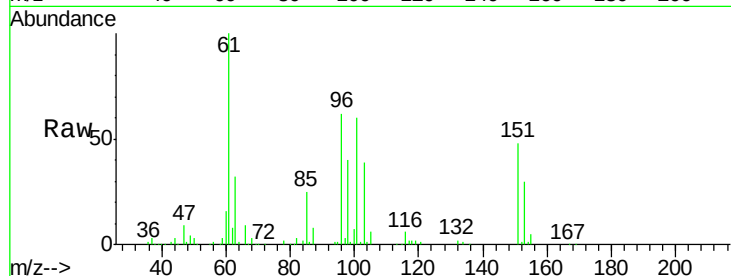
ClientSampleId :

VU0906WBSD02

Tot Ion:	101	Resp:	71439
Ion Ratio	Lower	Upper	
101	100		
85	41.2	34.4	51.6
151	81.1	64.4	96.6

Manual Integrations
APPROVED

MMDadoda
9/6/2019 3:22:18 PM



#10

Methyl Iodide

Concen: 15.927 ug/l

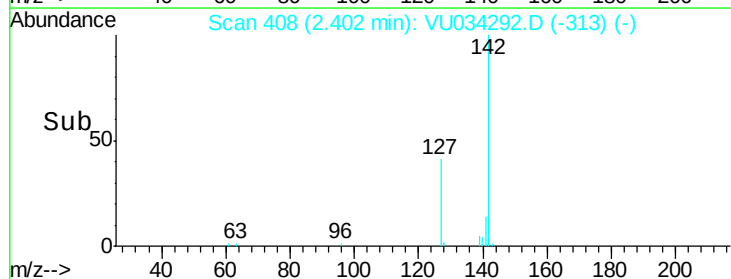
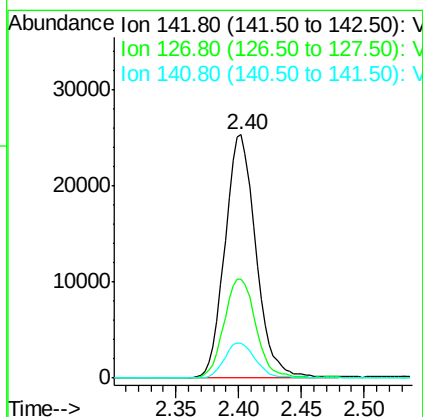
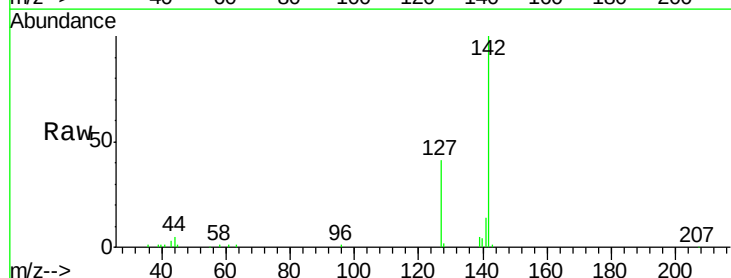
RT: 2.40 min Scan# 408

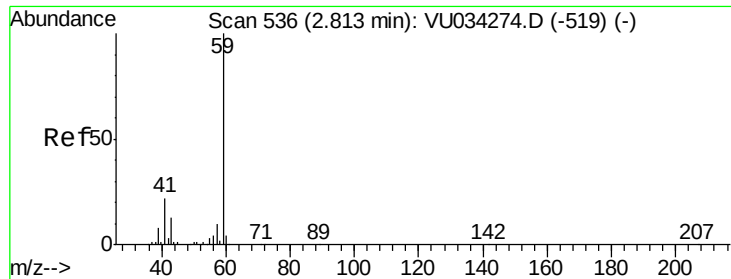
Delta R.T. 0.00 min

Lab File: VU034292.D

Acq: 05 Sep 2019 18:38

Tgt Ion:	142	Resp:	43567
Ion Ratio	Lower	Upper	
142	100		
127	41.6	32.1	48.1
141	14.4	11.5	17.3





#11

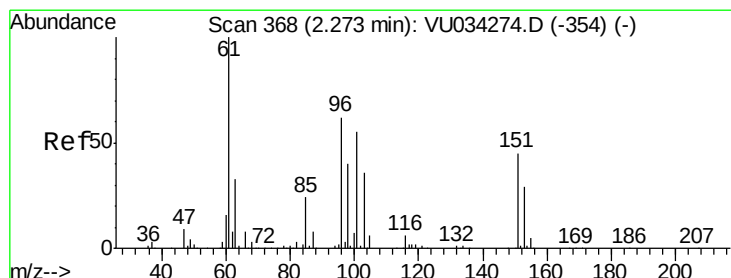
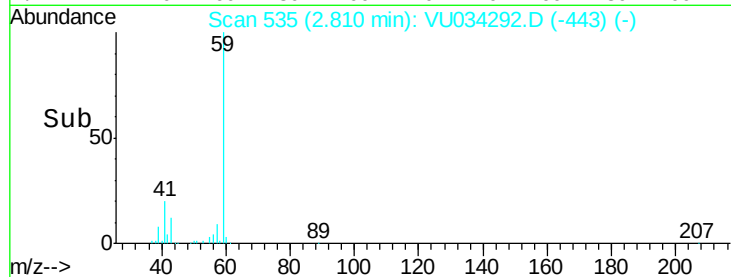
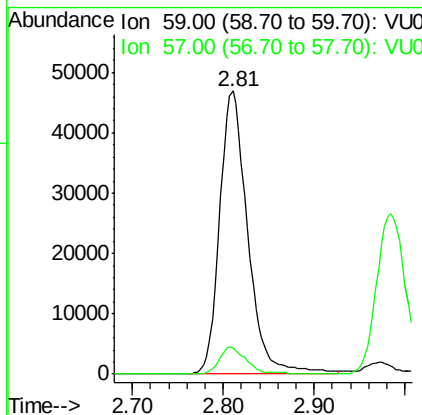
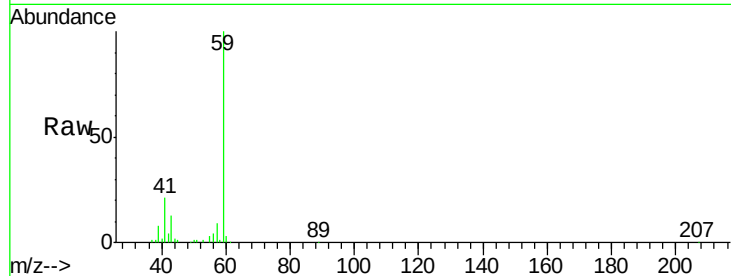
Tert butyl alcohol
 Concen: 100.516 ug/l
 RT: 2.81 min Scan# 535
 Delta R.T. -0.00 min
 Lab File: VU034292.D
 Acq: 05 Sep 2019 18:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0906WBSD02

Tot Ion	Ratio	Lower	Upper
59	100		
57	8.9	7.9	11.9

Manual Integrations
 APPROVED

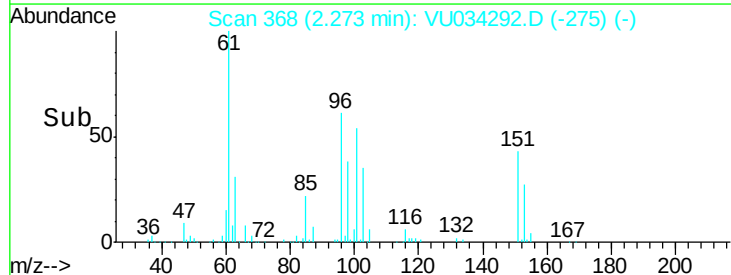
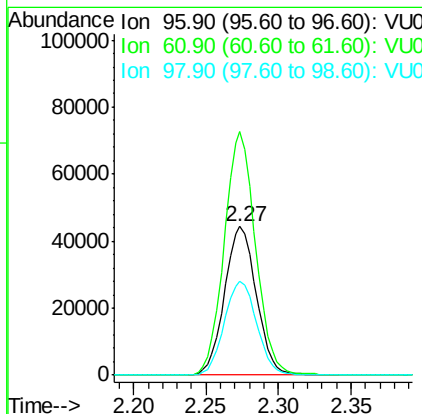
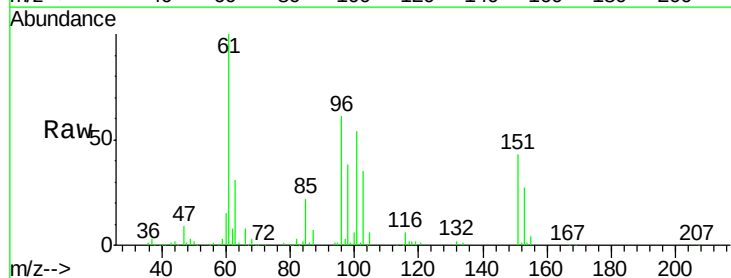
MMDadoda
 9/6/2019 3:22:18 PM

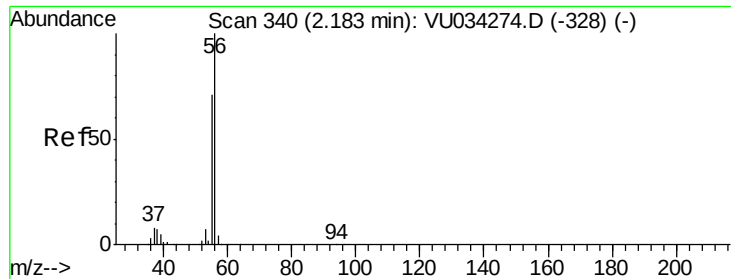


#12

1,1-Dichloroethene
 Concen: 19.492 ug/l
 RT: 2.27 min Scan# 368
 Delta R.T. 0.00 min
 Lab File: VU034292.D
 Acq: 05 Sep 2019 18:38

Tgt Ion	Ratio	Lower	Upper
96	100		
61	164.1	130.0	195.0
98	63.0	52.2	78.4





#13

Acrolein

Concen: 75.843 ug/l

RT: 2.18 min Scan# 340

Delta R.T. 0.00 min

Lab File: VU034292.D

Acq: 05 Sep 2019 18:38

Instrument :

MSVOA_U

ClientSampleId :

VU0906WBSD02

Tot Ion: 56 Resp: 64057

Ion Ratio Lower Upper

56 100

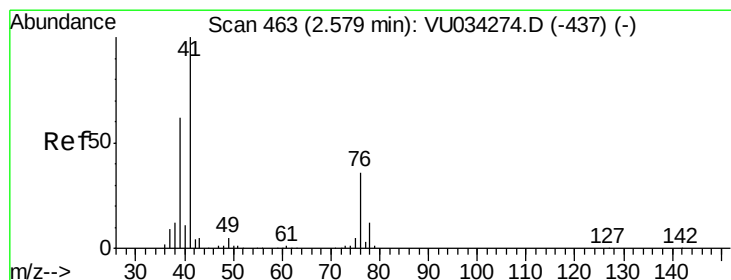
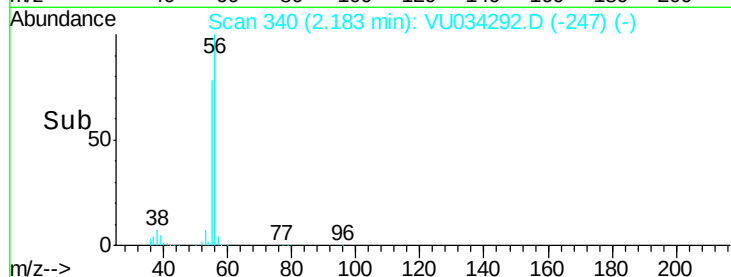
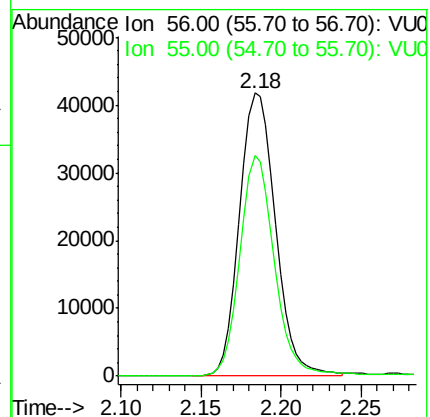
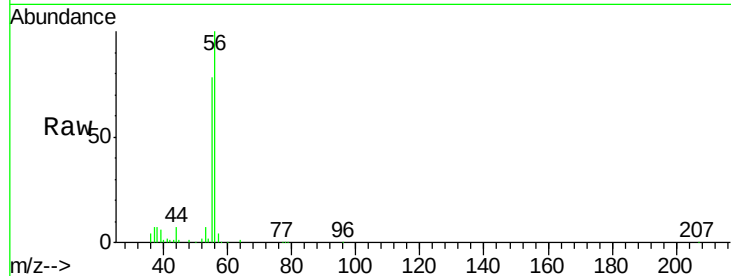
55 74.8 57.4 86.2

Manual Integrations

APPROVED

MMDadoda

9/6/2019 3:22:18 PM



#14

Allyl chloride

Concen: 19.437 ug/l m

RT: 2.58 min Scan# 464

Delta R.T. 0.00 min

Lab File: VU034292.D

Acq: 05 Sep 2019 18:38

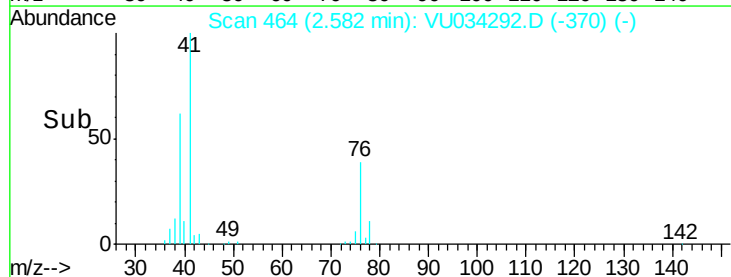
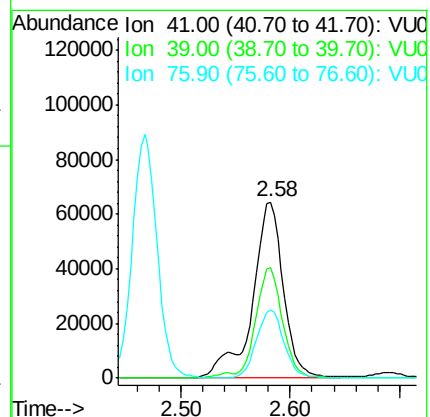
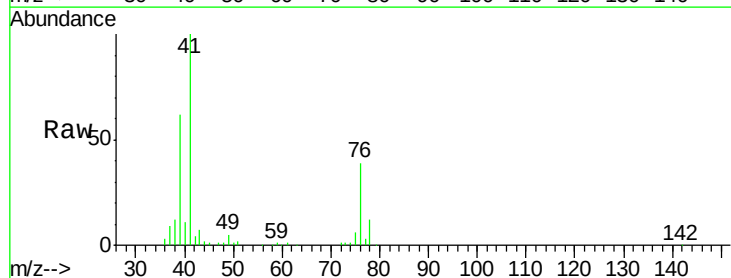
Tgt Ion: 41 Resp: 127103

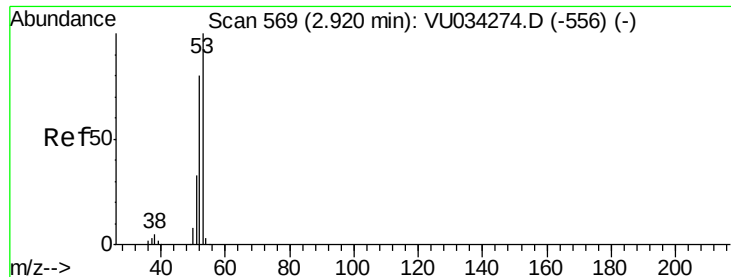
Ion Ratio Lower Upper

41 100

39 53.1 43.5 65.3

76 34.4 27.0 40.6





#15

Acrylonitrile

Concen: 104.594 ug/l

RT: 2.92 min Scan# 569

Delta R.T. 0.00 min

Lab File: VU034292.D

Acq: 05 Sep 2019 18:38

Instrument :

MSVOA_U

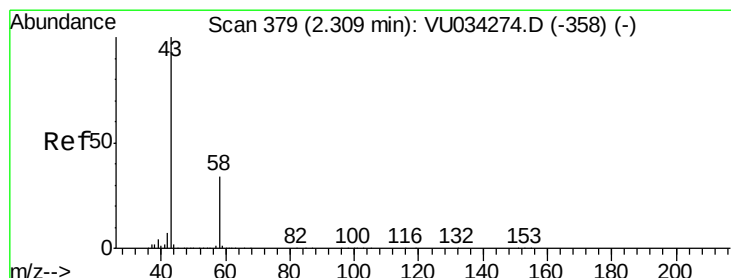
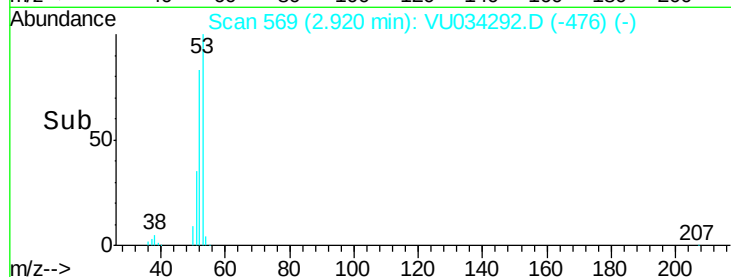
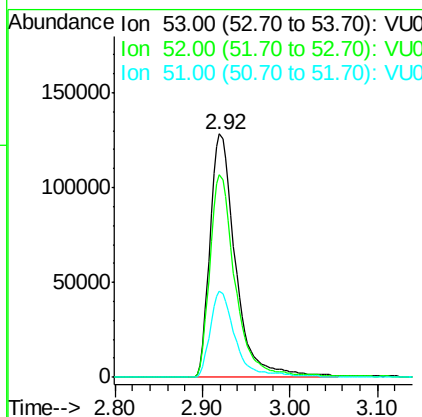
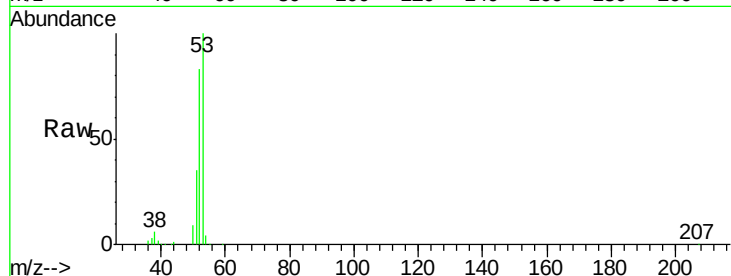
ClientSampleId :

VU0906WBSD02

Tot Ion:	53	Resp:	261737
Ion Ratio	Lower	Upper	
53	100		
52	82.8	64.1	96.1
51	34.9	27.4	41.0

Manual Integrations
APPROVED

MMDadoda
9/6/2019 3:22:18 PM



#16

Acetone

Concen: 86.944 ug/l

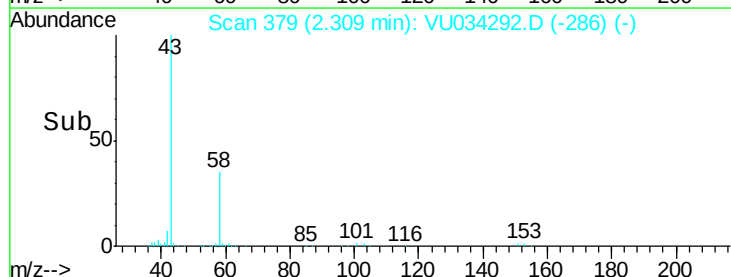
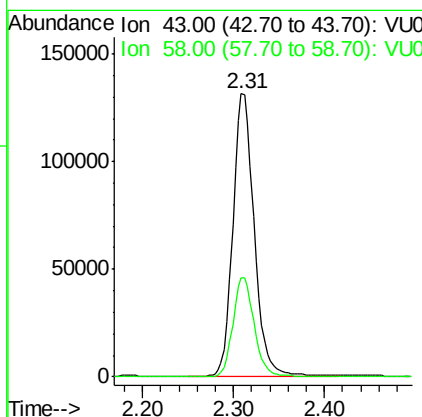
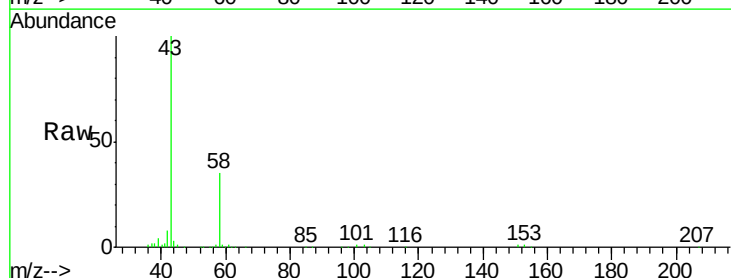
RT: 2.31 min Scan# 379

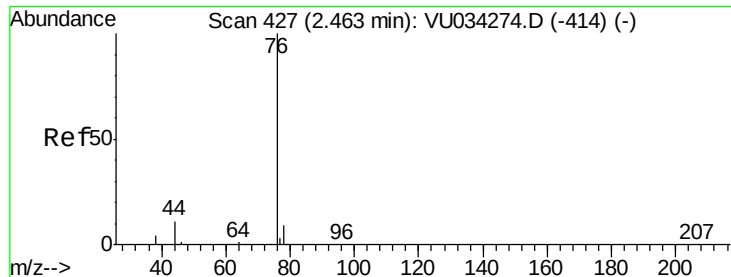
Delta R.T. 0.00 min

Lab File: VU034292.D

Acq: 05 Sep 2019 18:38

Tgt Ion:	43	Resp:	214012
Ion Ratio	Lower	Upper	
43	100		
58	35.1	27.6	41.4





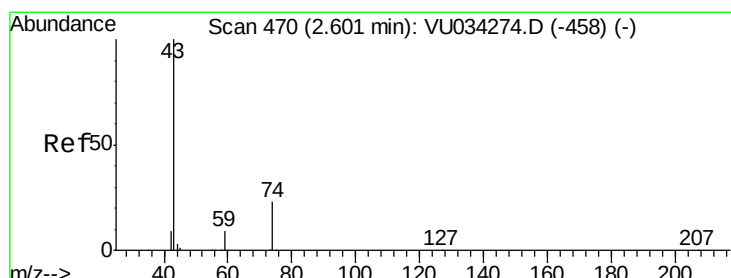
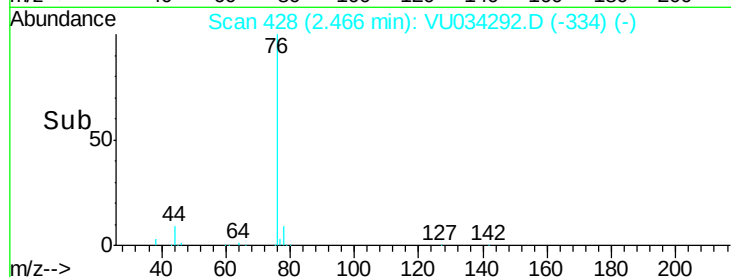
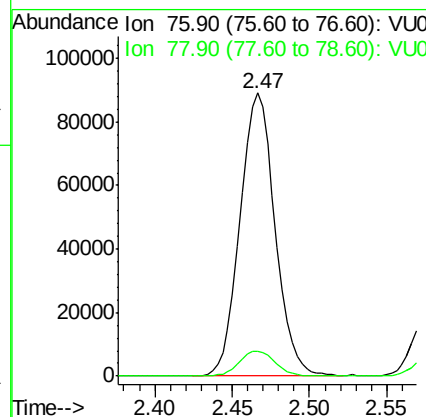
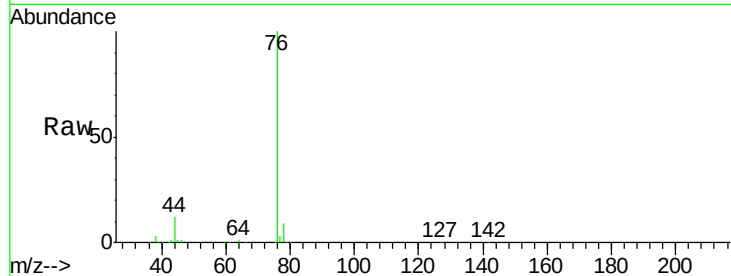
#17
Carbon Disulfide
Concen: 18.252 ug/l
RT: 2.47 min Scan# 428
Delta R.T. 0.00 min
Lab File: VU034292.D
Acq: 05 Sep 2019 18:38

Instrument :
MSVOA_U
ClientSampleId :
VU0906WBSD02

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.2	10.8

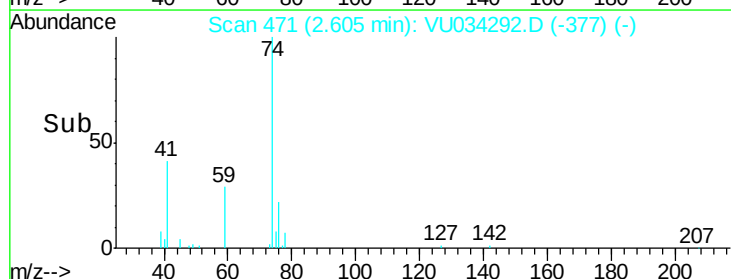
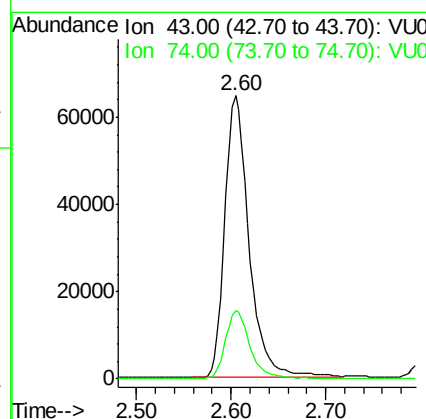
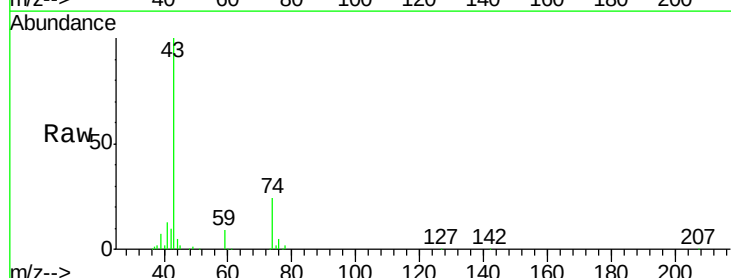
Manual Integrations
APPROVED

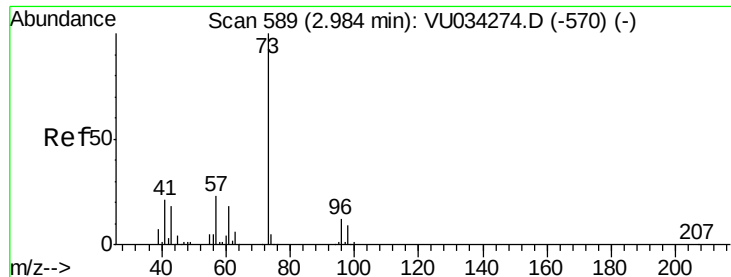
MMDadoda
9/6/2019 3:22:18 PM



#18
Methyl Acetate
Concen: 19.319 ug/l
RT: 2.60 min Scan# 471
Delta R.T. 0.00 min
Lab File: VU034292.D
Acq: 05 Sep 2019 18:38

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.3	18.9	28.3





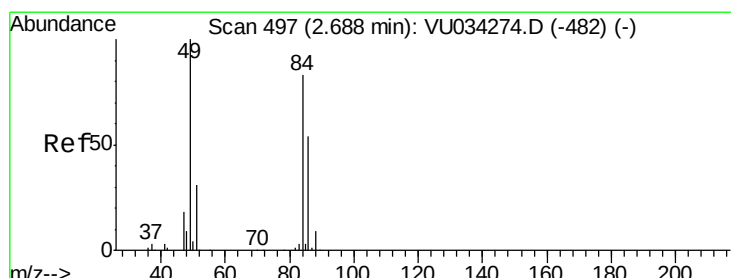
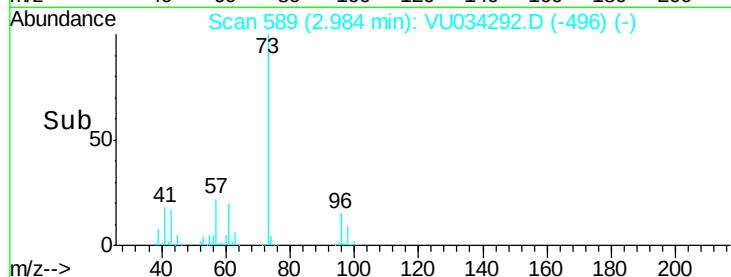
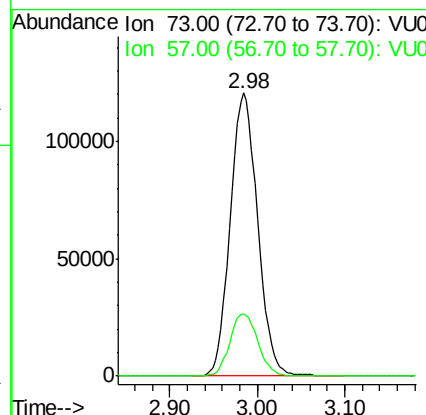
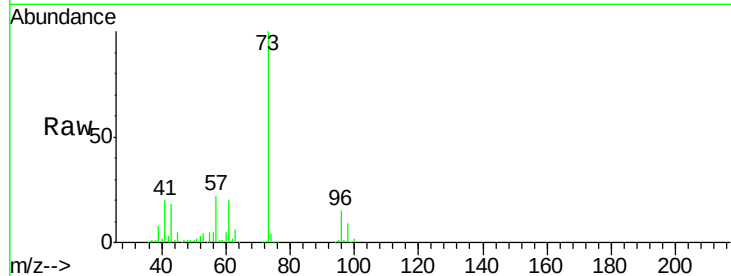
#19
Methyl tert-butyl Ether
Concen: 21.096 ug/l
RT: 2.98 min Scan# 589
Delta R.T. 0.00 min
Lab File: VU034292.D
Acq: 05 Sep 2019 18:38

Instrument :
MSVOA_U
ClientSampleId :
VU0906WBSD02

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.0	18.2	27.4

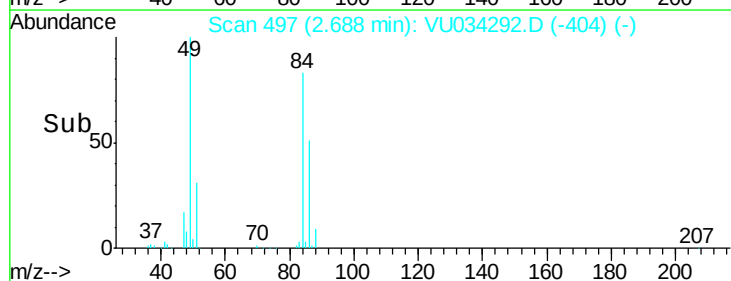
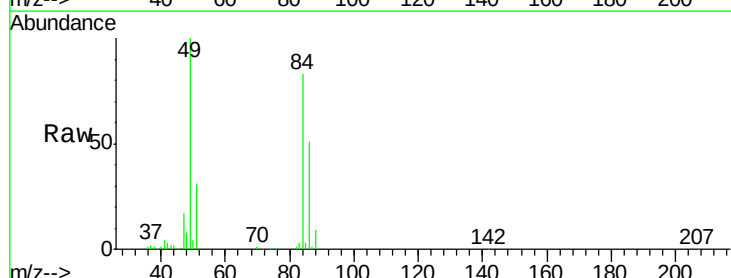
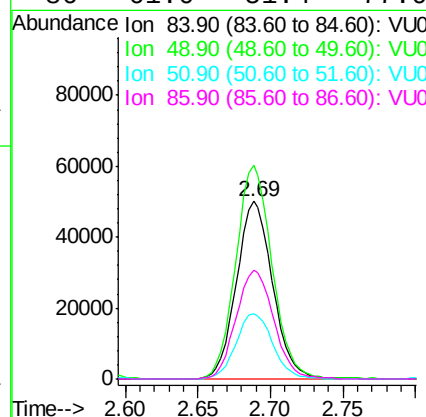
Manual Integrations
APPROVED

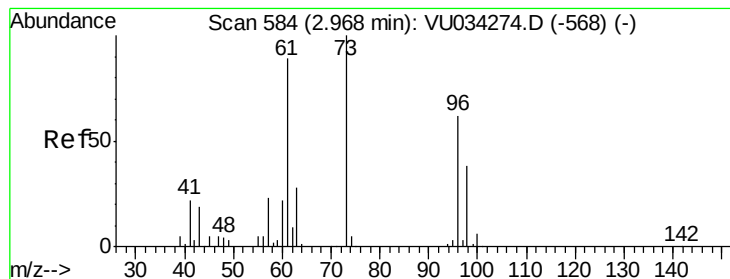
MMDadoda
9/6/2019 3:22:18 PM



#20
Methylene Chloride
Concen: 21.324 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU034292.D
Acq: 05 Sep 2019 18:38

Tgt Ion	Ratio	Lower	Upper
84	100		
49	120.1	96.0	144.0
51	36.9	30.0	45.0
86	61.0	51.4	77.0





#21

trans-1,2-Dichloroethene

Concen: 20.261 ug/l

RT: 2.97 min Scan# 584

Delta R.T. 0.00 min

Lab File: VU034292.D

Acq: 05 Sep 2019 18:38

Instrument :

MSVOA_U

ClientSampleId :

VU0906WBSD02

Tot Ion: 96 Resp: 73030

Ion Ratio Lower Upper

96 100

61 140.3 114.8 172.2

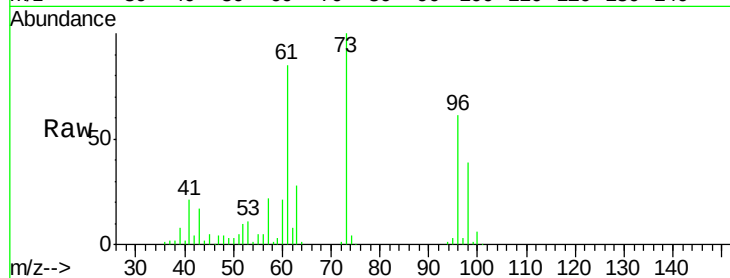
98 64.5 49.8 74.8

Manual Integrations

APPROVED

MMDadoda

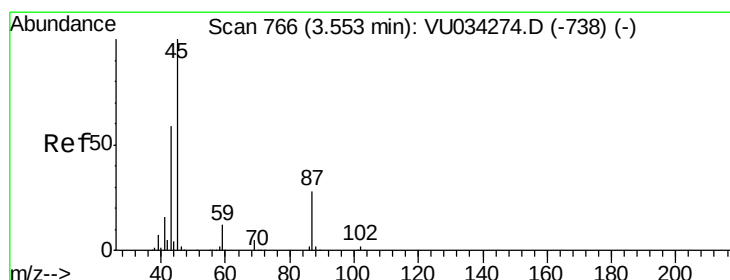
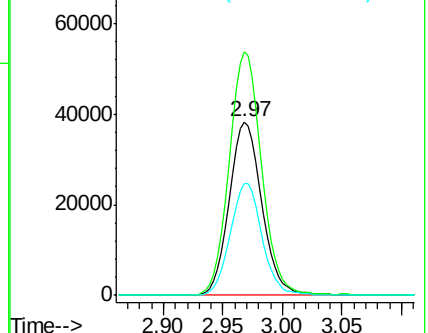
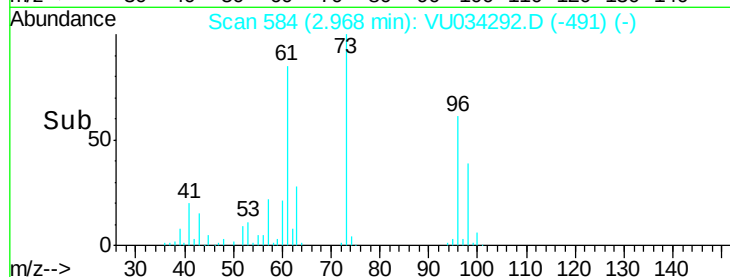
9/6/2019 3:22:18 PM



Abundance Ion 95.90 (95.60 to 96.60): VU034292.D (-491) (-)

Ion 60.90 (60.60 to 61.60): VU034292.D (-491) (-)

Ion 97.90 (97.60 to 98.60): VU034292.D (-491) (-)



#22

Diisopropyl ether

Concen: 21.323 ug/l

RT: 3.55 min Scan# 766

Delta R.T. 0.00 min

Lab File: VU034292.D

Acq: 05 Sep 2019 18:38

Tgt Ion: 45 Resp: 271913

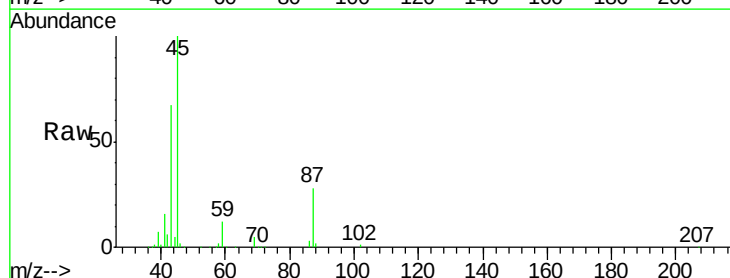
Ion Ratio Lower Upper

45 100

43 65.4 47.5 71.3

87 27.9 22.2 33.4

59 12.1 9.4 14.2

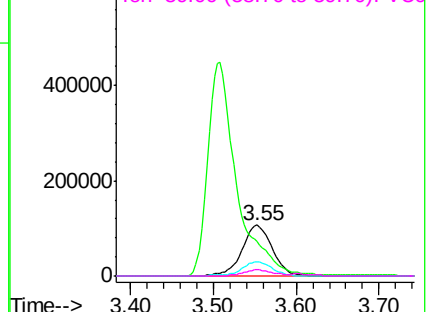
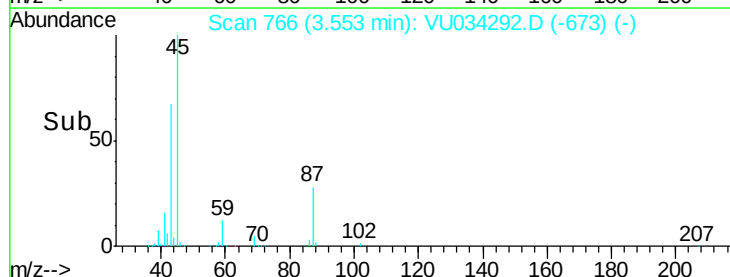


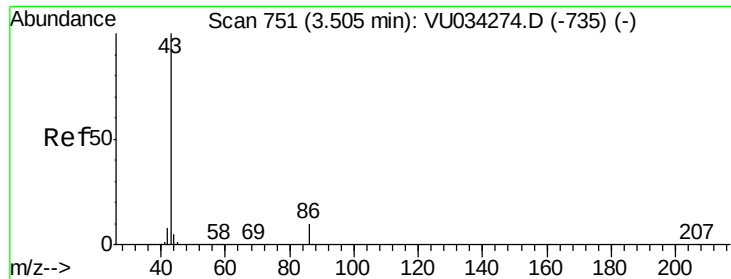
Abundance Ion 45.00 (44.70 to 45.70): VU034292.D (-673) (-)

Ion 43.00 (42.70 to 43.70): VU034292.D (-673) (-)

Ion 87.00 (86.70 to 87.70): VU034292.D (-673) (-)

Ion 59.00 (58.70 to 59.70): VU034292.D (-673) (-)





#23

Vinyl Acetate

Concen: 106.487 ug/l

RT: 3.51 min Scan# 752

Delta R.T. 0.00 min

Lab File: VU034292.D

Acq: 05 Sep 2019 18:38

Instrument :

MSVOA_U

ClientSampleId :

VU0906WBSD02

Tot Ion: 43 Resp: 1106132

Ion Ratio Lower Upper

43 100

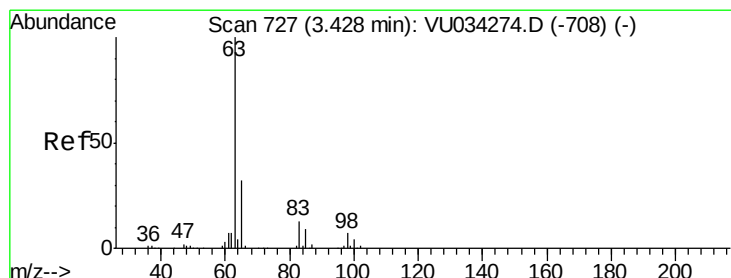
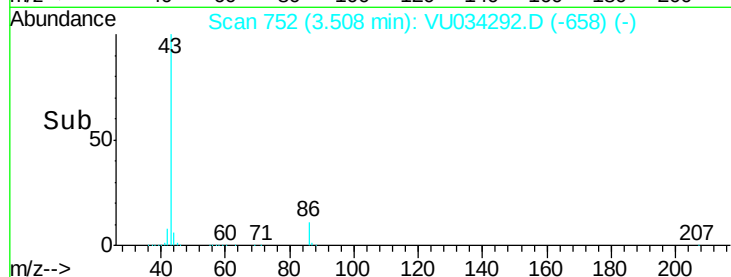
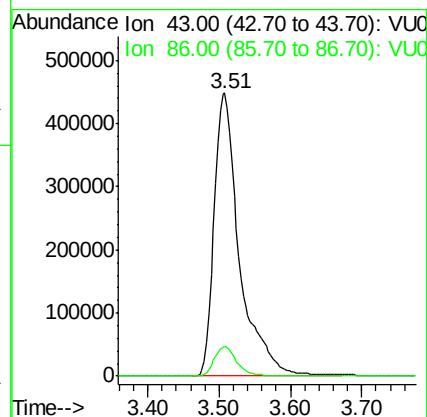
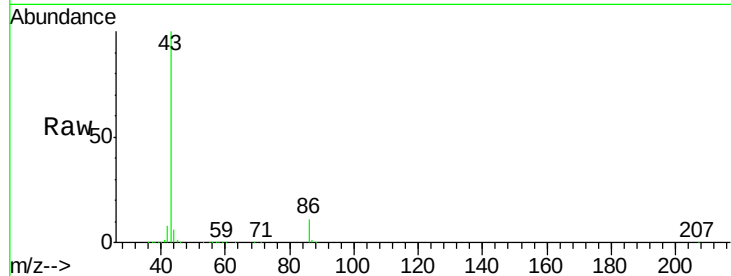
86 10.6 8.3 12.5

Manual Integrations

APPROVED

MMDadoda

9/6/2019 3:22:18 PM



#24

1,1-Dichloroethane

Concen: 19.715 ug/l

RT: 3.43 min Scan# 727

Delta R.T. 0.00 min

Lab File: VU034292.D

Acq: 05 Sep 2019 18:38

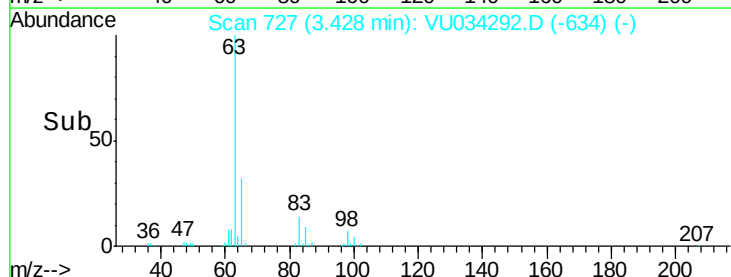
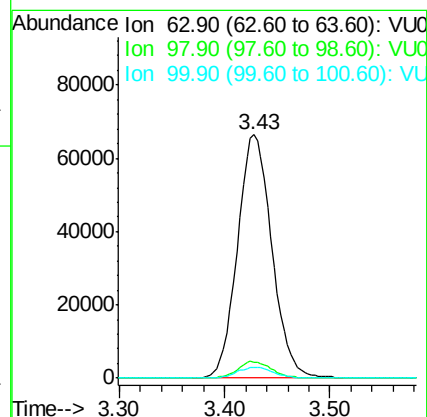
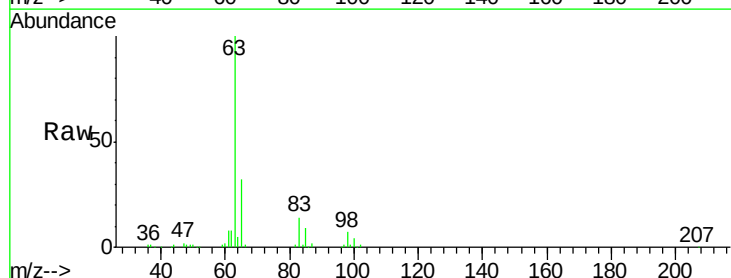
Tgt Ion: 63 Resp: 150143

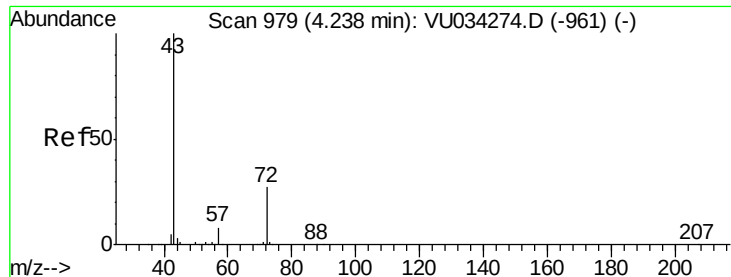
Ion Ratio Lower Upper

63 100

98 6.7 3.5 10.4

100 4.3 2.1 6.5





#25

2-Butanone

Concen: 101.843 ug/l

RT: 4.24 min Scan# 980

Delta R.T. 0.00 min

Lab File: VU034292.D

Acq: 05 Sep 2019 18:38

Instrument :

MSVOA_U

ClientSampleId :

VU0906WBSD02

Tot Ion: 43 Resp: 334632

Ion Ratio Lower Upper

43 100

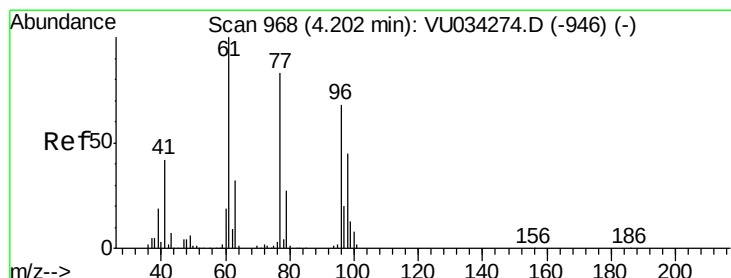
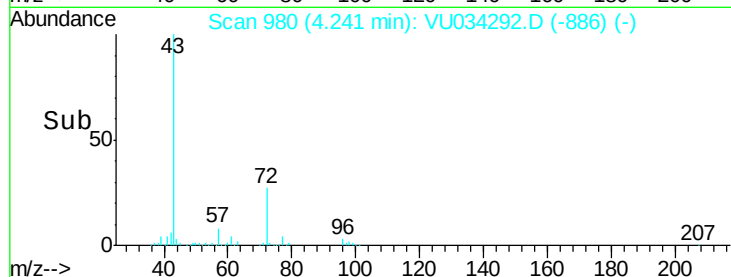
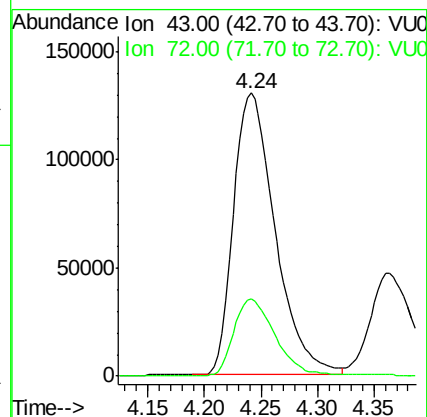
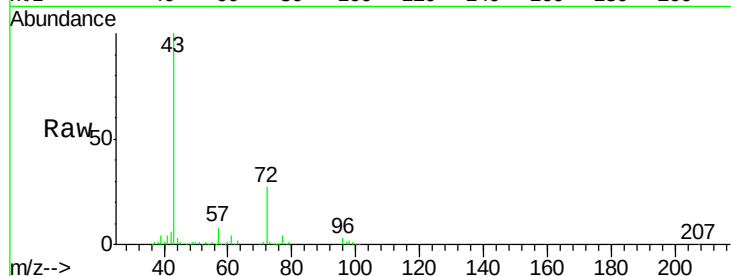
72 27.0 21.8 32.6

Manual Integrations

APPROVED

MMDadoda

9/6/2019 3:22:18 PM



#26

2,2-Dichloropropane

Concen: 19.056 ug/l

RT: 4.20 min Scan# 968

Delta R.T. 0.00 min

Lab File: VU034292.D

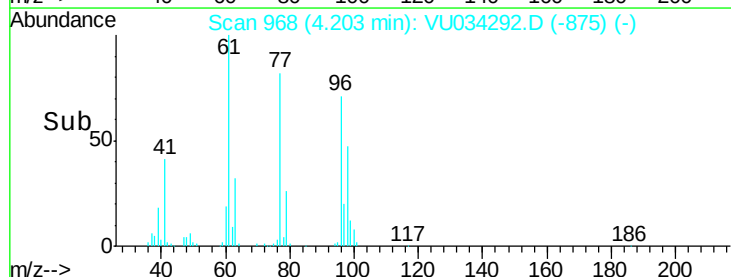
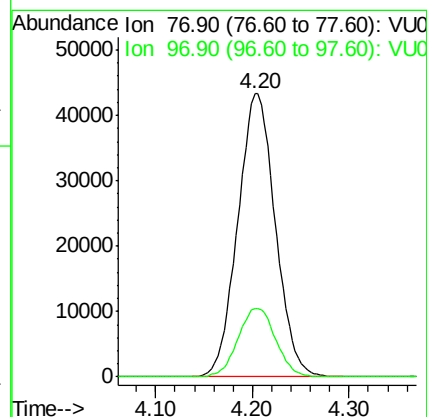
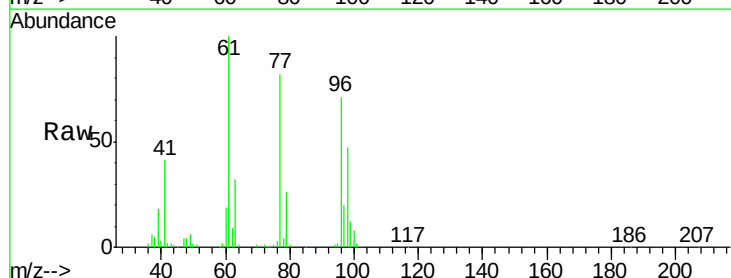
Acq: 05 Sep 2019 18:38

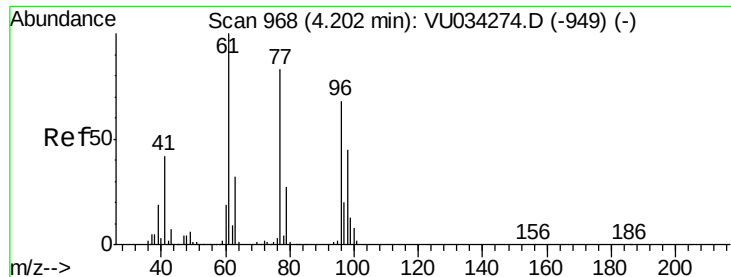
Tgt Ion: 77 Resp: 116721

Ion Ratio Lower Upper

77 100

97 24.2 11.8 35.3





#27

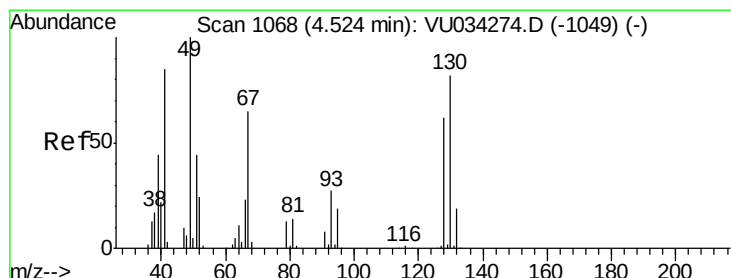
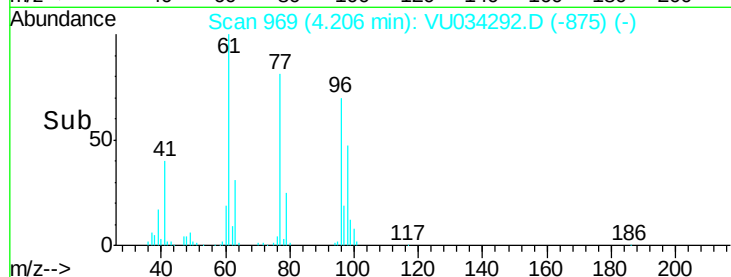
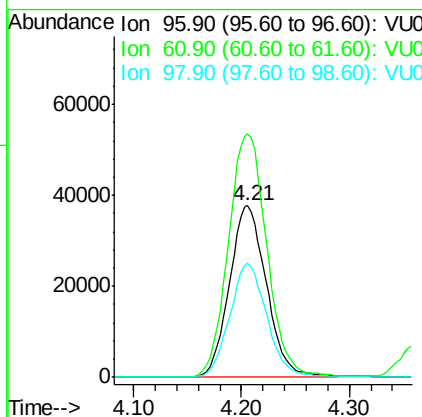
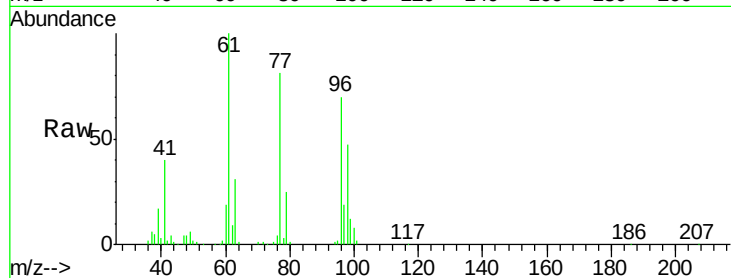
cis-1,2-Dichloroethene
 Concen: 20.613 ug/l
 RT: 4.21 min Scan# 969
 Delta R.T. 0.00 min
 Lab File: VU034292.D
 Acq: 05 Sep 2019 18:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0906WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	147.6	0.0	297.4	
98	66.6	0.0	130.0	

Manual Integrations
 APPROVED

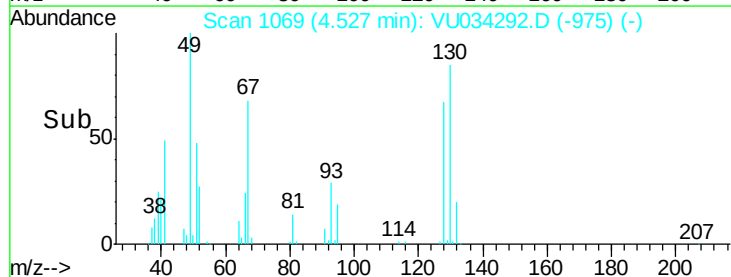
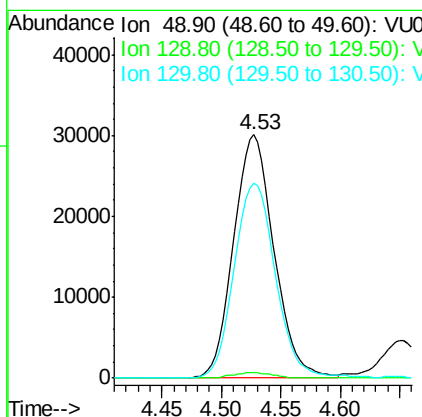
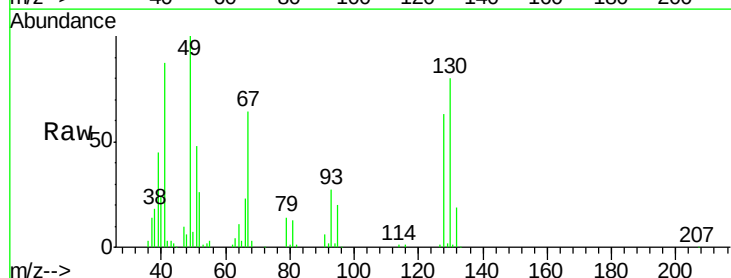
MMDadoda
 9/6/2019 3:22:18 PM

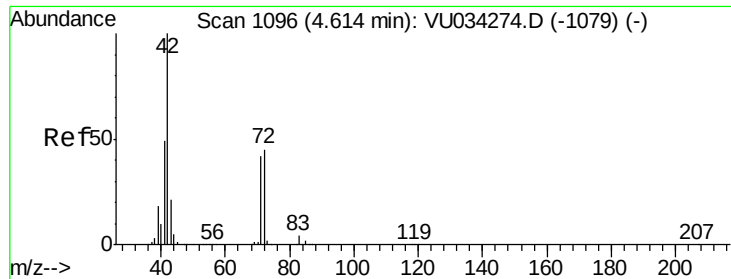


#28

Bromochloromethane
 Concen: 20.287 ug/l
 RT: 4.53 min Scan# 1069
 Delta R.T. 0.00 min
 Lab File: VU034292.D
 Acq: 05 Sep 2019 18:38

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	2.1	0.0	3.8	
130	81.3	65.2	97.8	





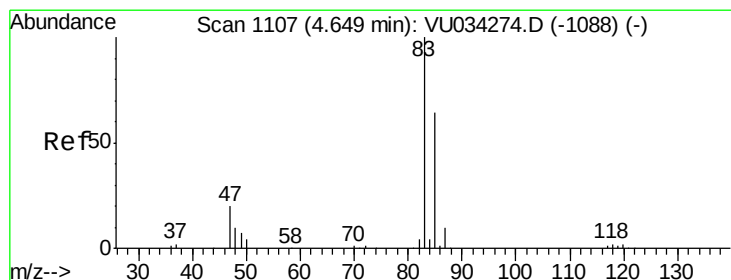
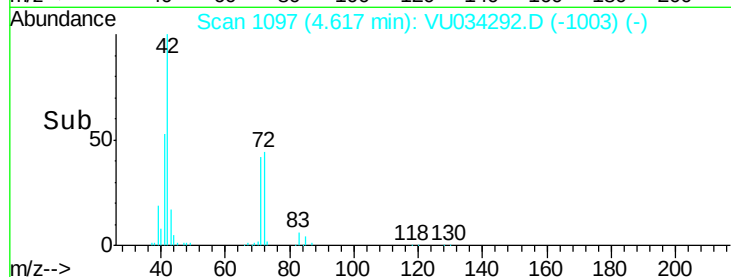
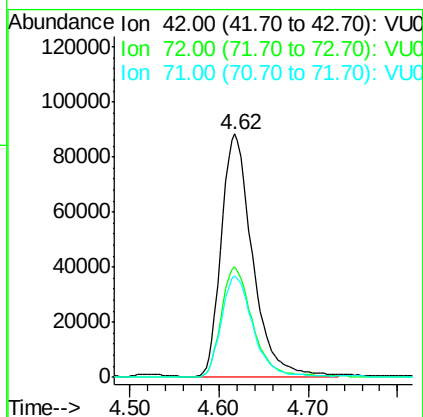
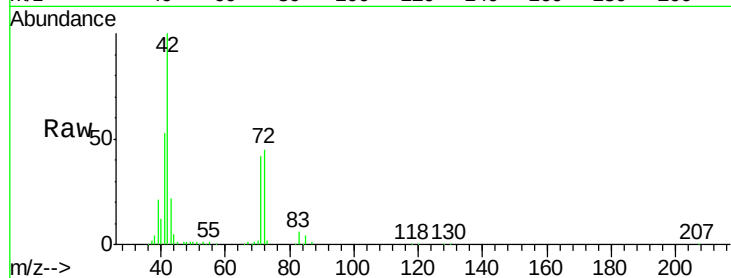
#29
Tetrahydrofuran
Concen: 106.894 ug/l
RT: 4.62 min Scan# 1097
Delta R.T. 0.00 min
Lab File: VU034292.D
Acq: 05 Sep 2019 18:38

Instrument :
MSVOA_U
ClientSampleId :
VU0906WBSD02

Tot Ion	Ratio	Lower	Upper
42	100		
72	46.0	36.6	54.8
71	42.5	34.3	51.5

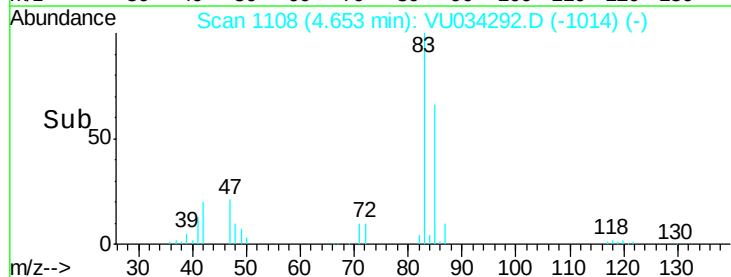
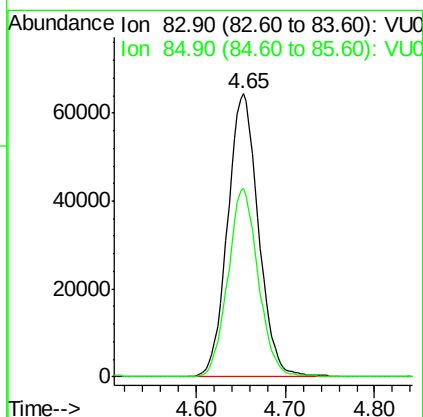
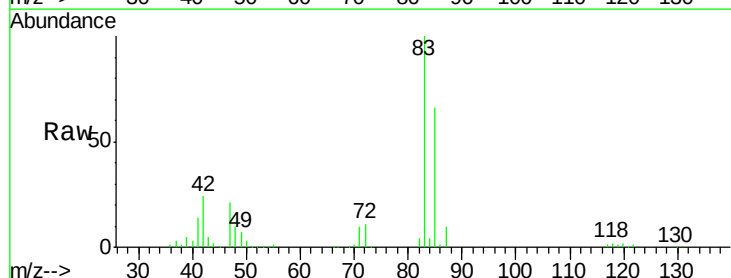
Manual Integrations
APPROVED

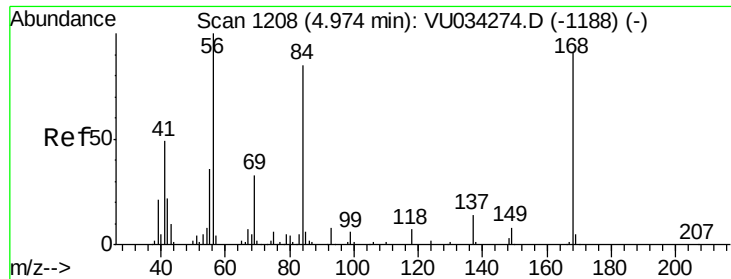
MMDadoda
9/6/2019 3:22:18 PM



#30
Chloroform
Concen: 19.926 ug/l
RT: 4.65 min Scan# 1108
Delta R.T. 0.00 min
Lab File: VU034292.D
Acq: 05 Sep 2019 18:38

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.3	51.5	77.3





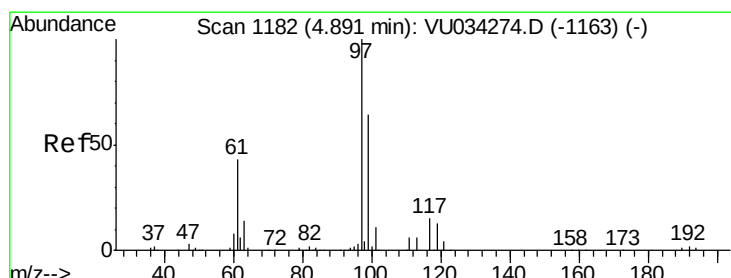
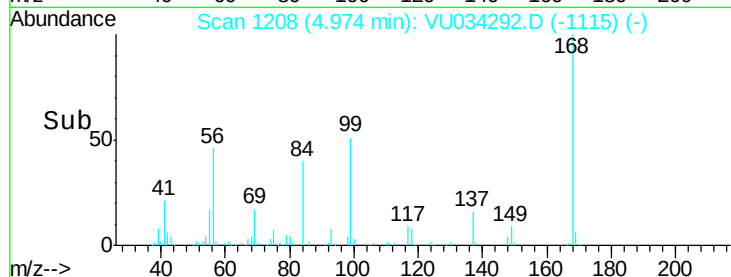
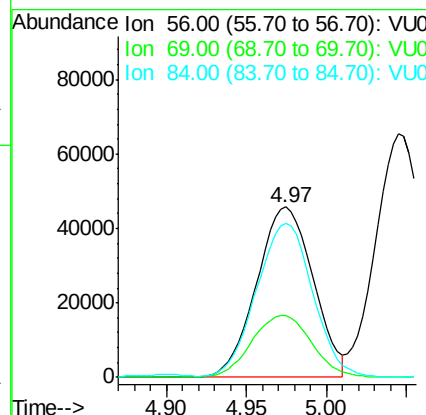
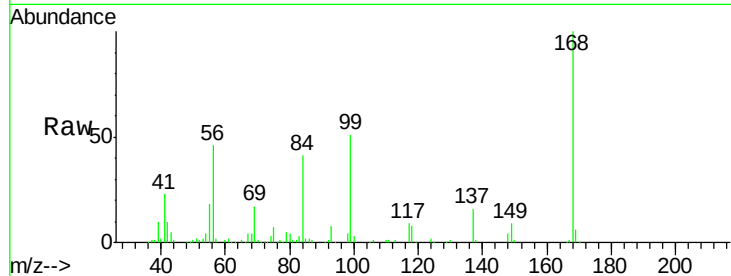
#31
Cyclohexane
Concen: 20.070 ug/l
RT: 4.97 min Scan# 1208
Delta R.T. 0.00 min
Lab File: VU034292.D
Acq: 05 Sep 2019 18:38

Instrument :
MSVOA_U
ClientSampleId :
VU0906WBSD02

Tot Ion	Ratio	Lower	Upper
56	100		
69	36.0	26.7	40.1
84	89.7	68.2	102.4

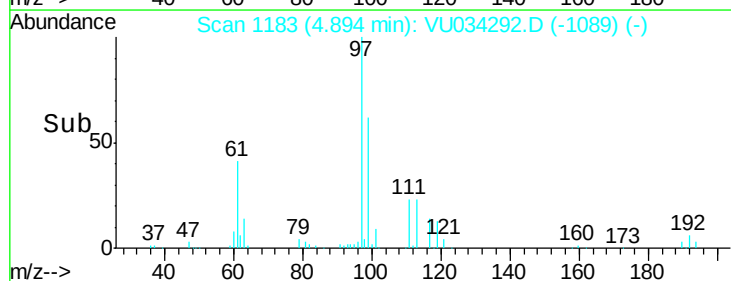
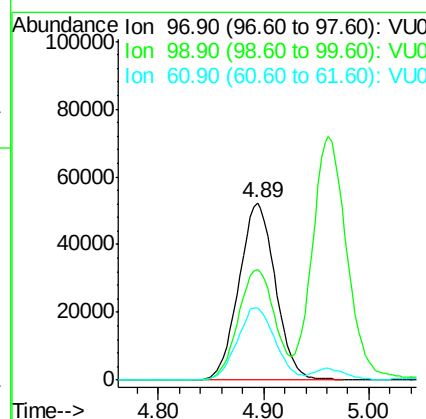
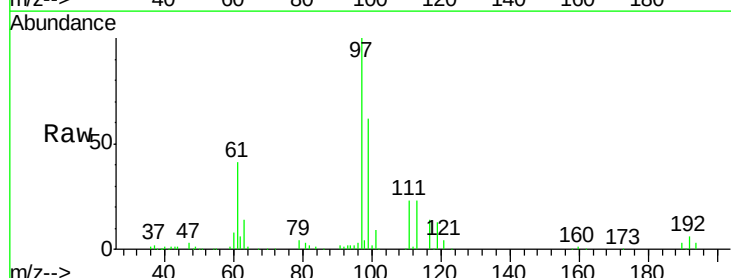
Manual Integrations
APPROVED

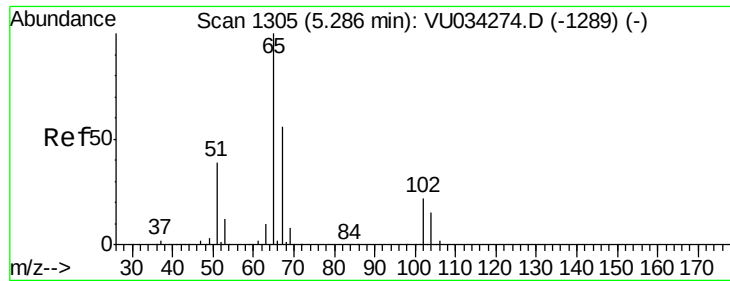
MMDadoda
9/6/2019 3:22:18 PM



#32
1,1,1-Trichloroethane
Concen: 20.337 ug/l
RT: 4.89 min Scan# 1183
Delta R.T. 0.00 min
Lab File: VU034292.D
Acq: 05 Sep 2019 18:38

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.6	50.9	76.3
61	42.4	34.7	52.1





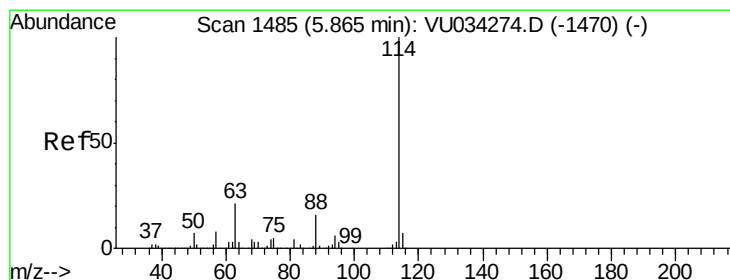
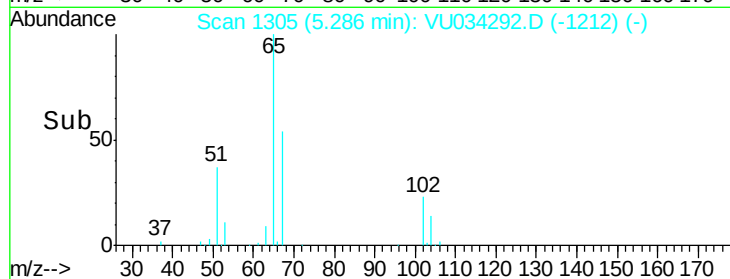
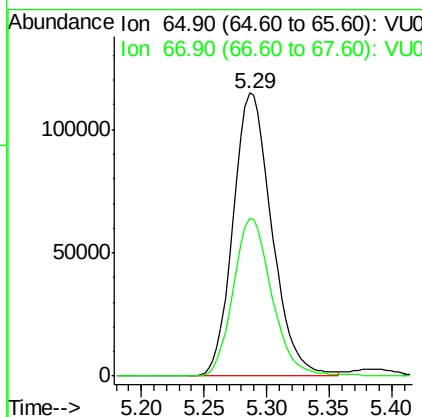
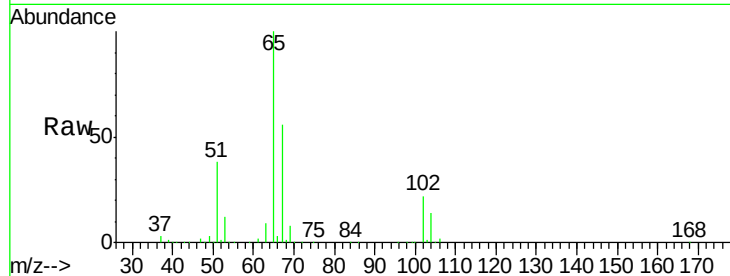
#33
 1,2-Dichloroethane-d4
 Concen: 51.892 ug/l
 RT: 5.29 min Scan# 1305
 Delta R.T. 0.00 min
 Lab File: VU034292.D
 Acq: 05 Sep 2019 18:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0906WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	55.6	0.0	112.4	

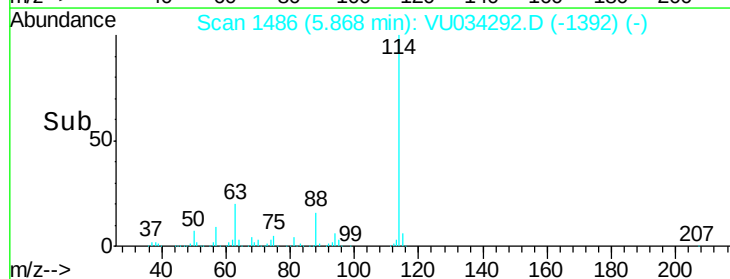
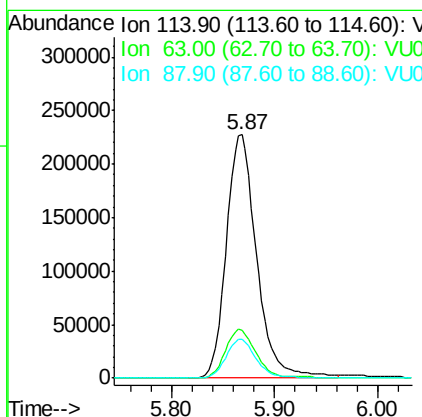
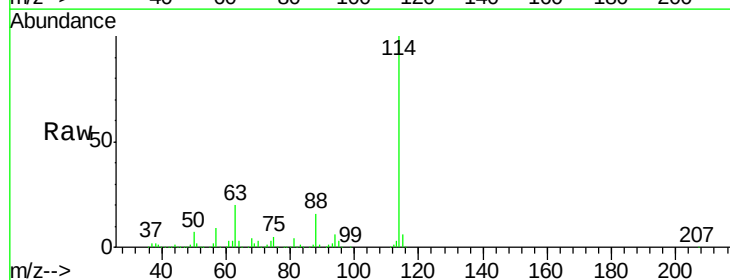
Manual Integrations
 APPROVED

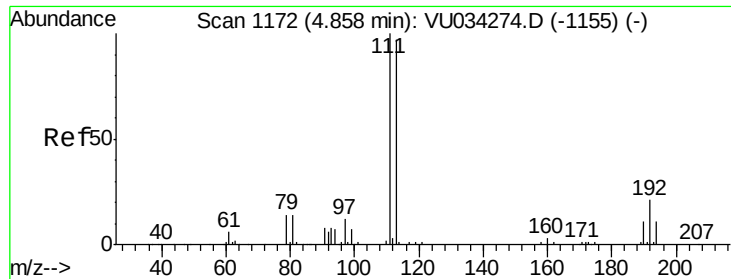
MMDadoda
 9/6/2019 3:22:18 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034292.D
 Acq: 05 Sep 2019 18:38

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	19.6	0.0	42.4	
88	15.8	0.0	32.4	





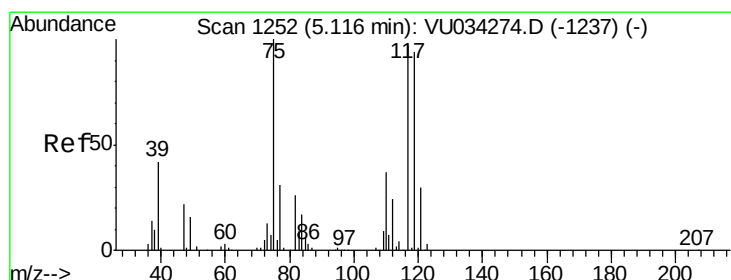
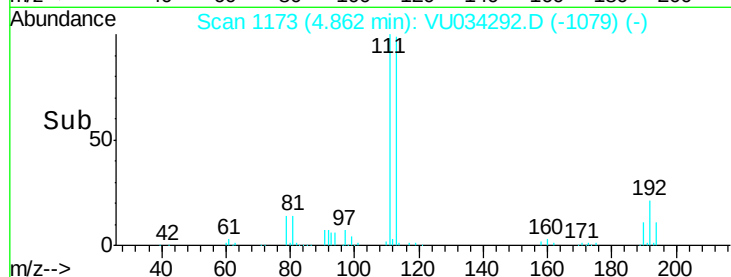
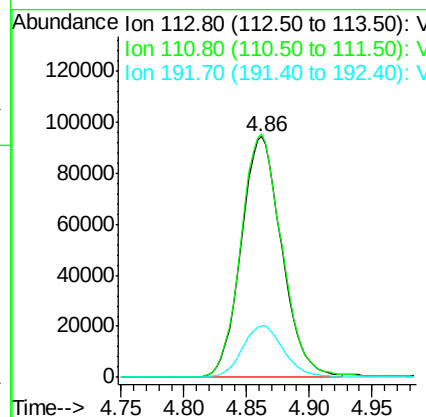
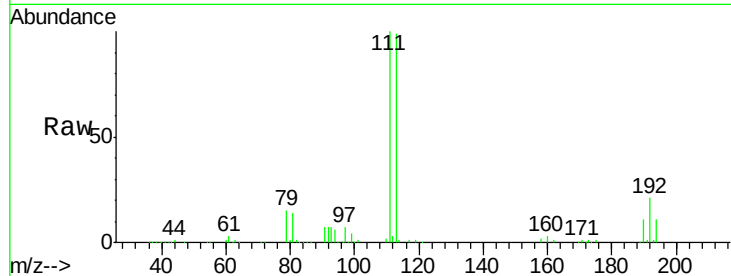
#35
 Dibromofluoromethane
 Concen: 48.926 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034292.D
 Acq: 05 Sep 2019 18:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0906WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
113	100	212608		
111	102.5	81.5	122.3	
192	22.0	17.8	26.8	

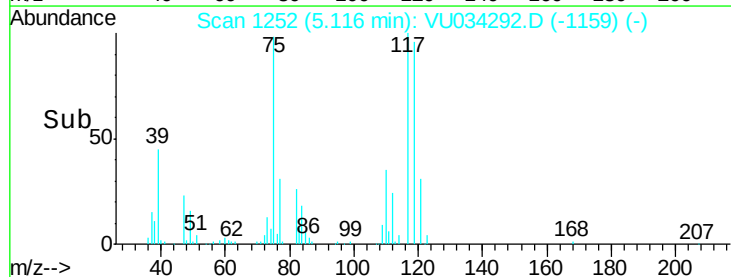
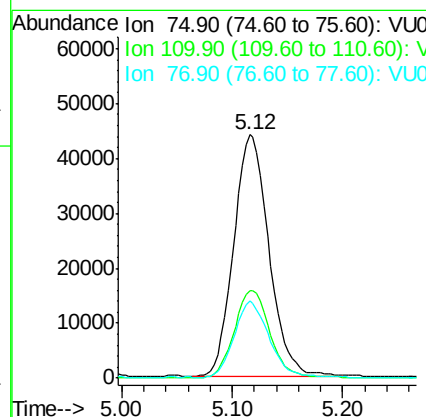
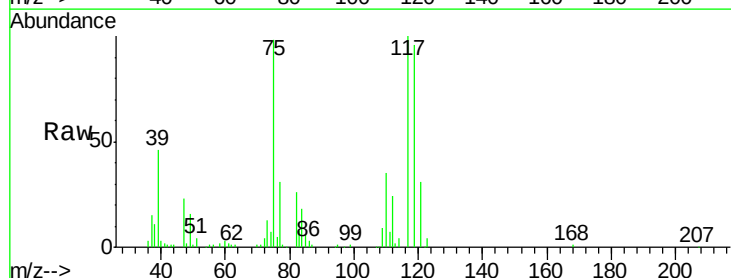
Manual Integrations
 APPROVED

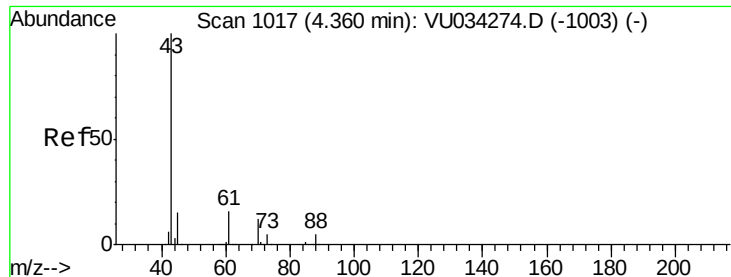
MMDadoda
 9/6/2019 3:22:18 PM



#36
 1,1-Dichloropropene
 Concen: 19.135 ug/l
 RT: 5.12 min Scan# 1252
 Delta R.T. 0.00 min
 Lab File: VU034292.D
 Acq: 05 Sep 2019 18:38

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	96912		
110	37.3	18.3	54.9	
77	31.5	24.9	37.3	





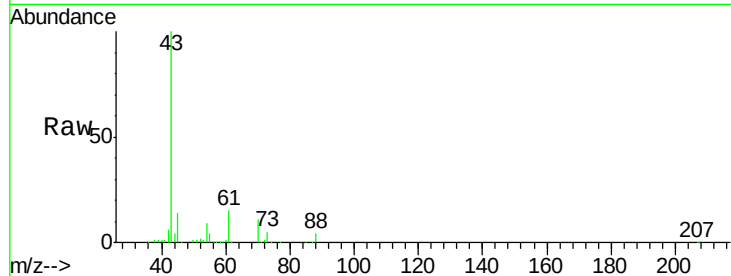
#37
Ethyl Acetate
Concen: 20.081 ug/l
RT: 4.36 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VU034292.D
Acq: 05 Sep 2019 18:38

Instrument :
MSVOA_U
ClientSampled :
VU0906WBSD02

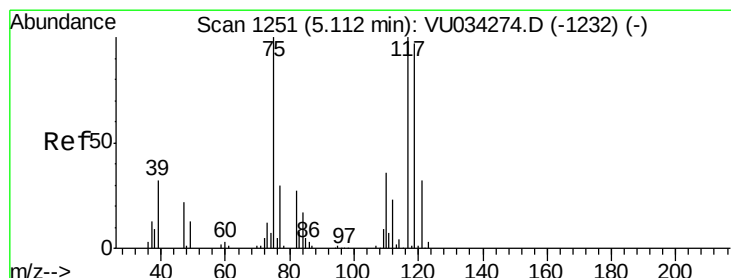
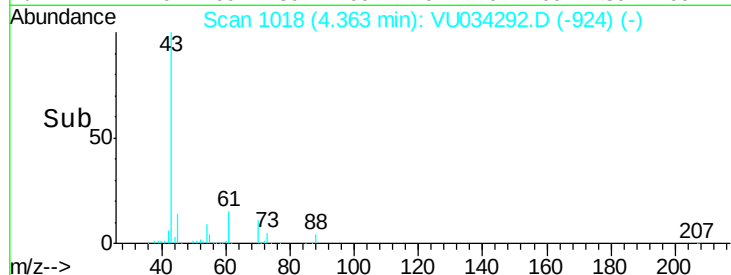
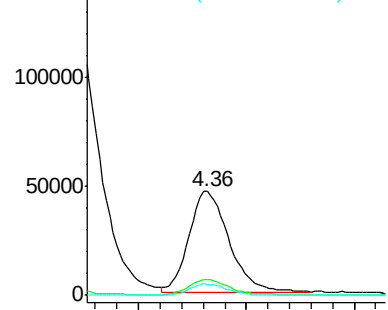
Tot Ion:	43	Resp:	120247
Ion	Ratio	Lower	Upper
43	100		
61	15.6	12.3	18.5
70	11.0	9.1	13.7

Manual Integrations
APPROVED

MMDadoda
9/6/2019 3:22:18 PM



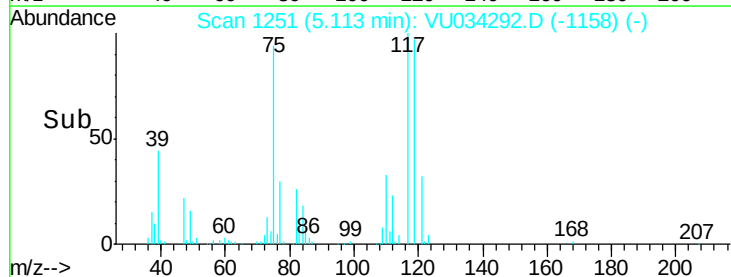
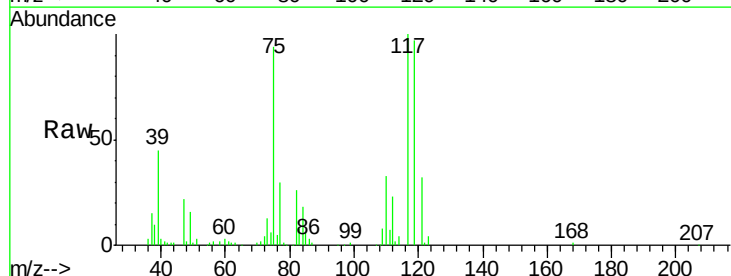
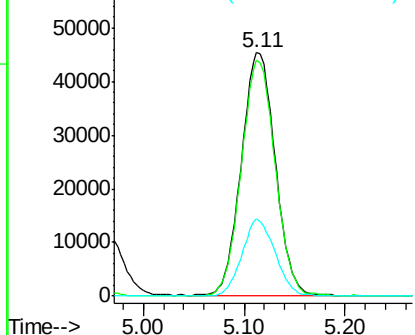
Abundance Ion 43.00 (42.70 to 43.70): VU034292.D (-1158) (-)
Ion 60.90 (60.60 to 61.60): VU034292.D (-1158) (-)
Ion 70.00 (69.70 to 70.70): VU034292.D (-1158) (-)

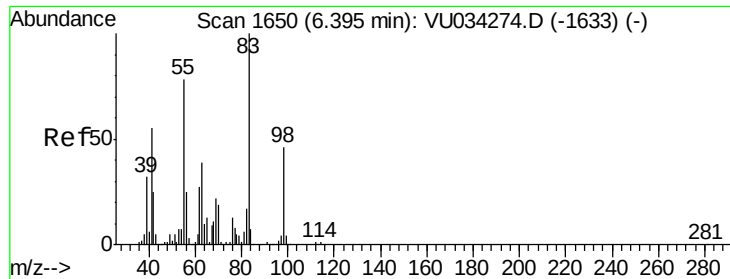


#38
Carbon Tetrachloride
Concen: 19.497 ug/l
RT: 5.11 min Scan# 1251
Delta R.T. 0.00 min
Lab File: VU034292.D
Acq: 05 Sep 2019 18:38

Tgt Ion:	117	Resp:	105433
Ion	Ratio	Lower	Upper
117	100		
119	97.0	77.8	116.6
121	31.6	25.2	37.8

Abundance Ion 116.80 (116.50 to 117.50): VU034292.D (-1158) (-)
Ion 118.80 (118.50 to 119.50): VU034292.D (-1158) (-)
Ion 120.80 (120.50 to 121.50): VU034292.D (-1158) (-)





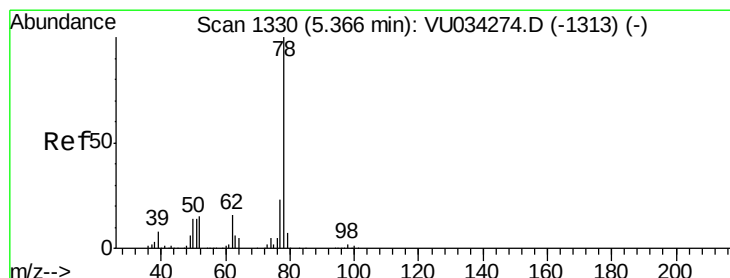
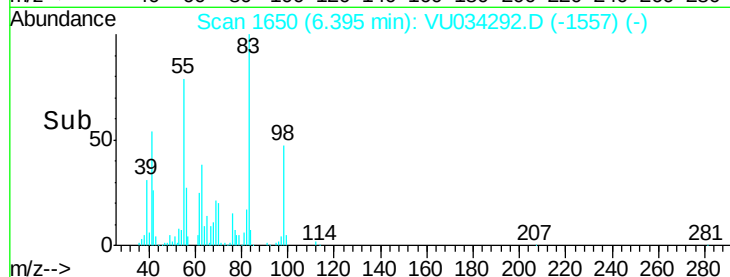
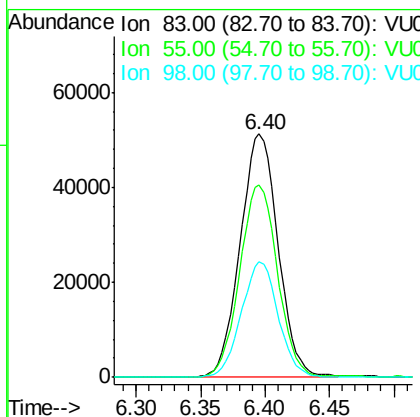
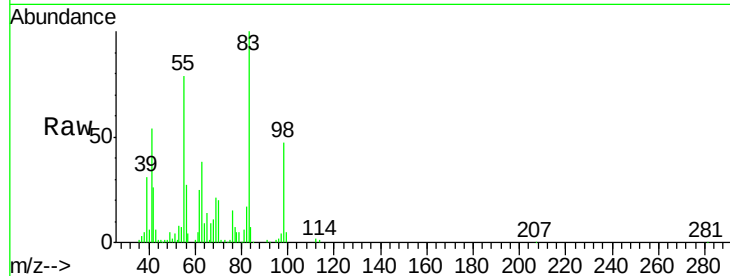
#39
Methylvlcyclohexane
Concen: 19.454 ug/l
RT: 6.40 min Scan# 1650
Delta R.T. 0.00 min
Lab File: VU034292.D
Acq: 05 Sep 2019 18:38

Instrument :
MSVOA_U
ClientSampleId :
VU0906WBSD02

Tot Ion	Ratio	Lower	Upper
83	100		
55	79.3	62.1	93.1
98	47.3	37.0	55.6

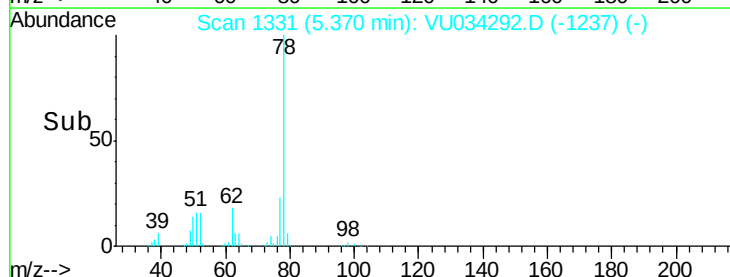
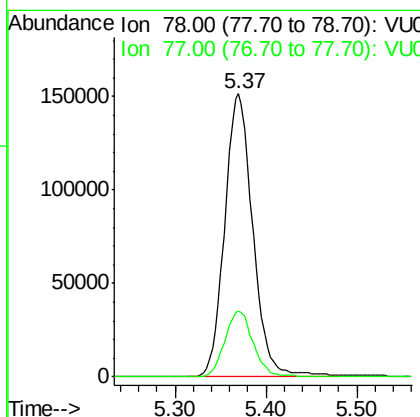
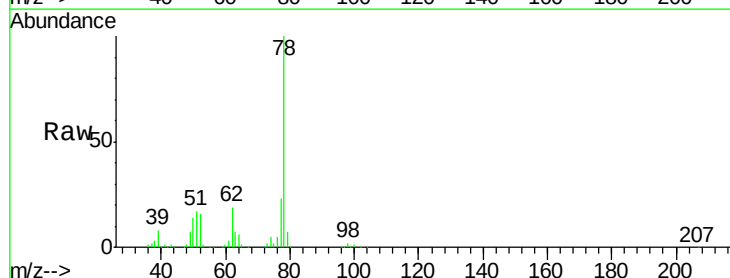
Manual Integrations
APPROVED

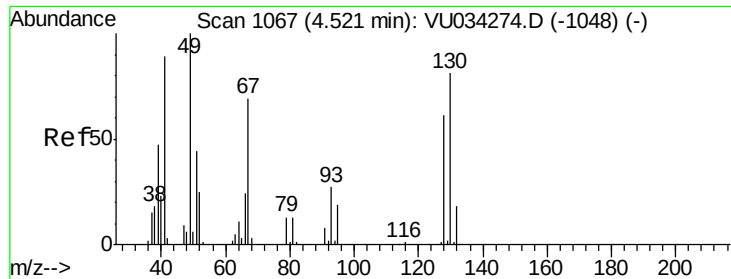
MMDadoda
9/6/2019 3:22:18 PM



#40
Benzene
Concen: 19.963 ug/l
RT: 5.37 min Scan# 1331
Delta R.T. 0.00 min
Lab File: VU034292.D
Acq: 05 Sep 2019 18:38

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.7	28.1





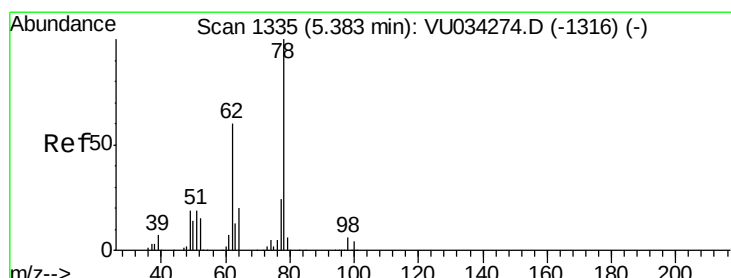
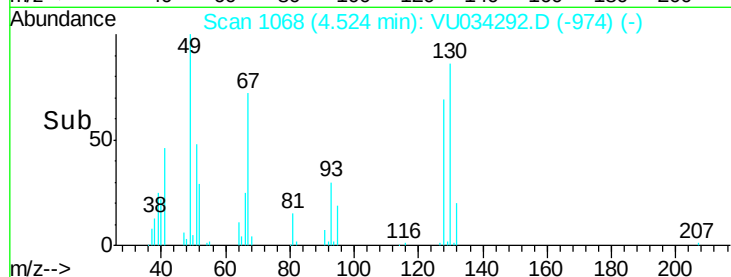
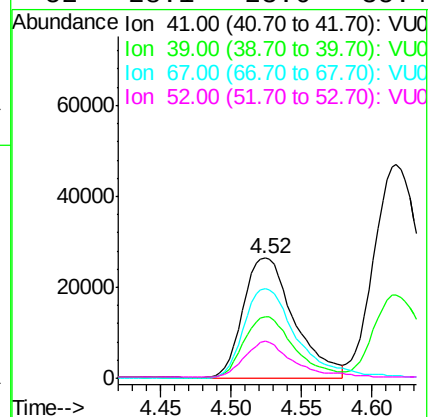
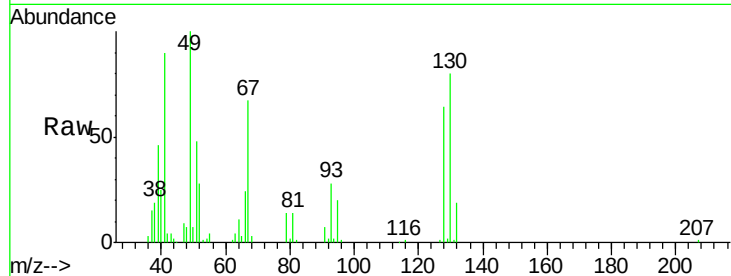
#41
Methacrylonitrile
Concen: 21.147 ug/l
RT: 4.52 min Scan# 1068
Delta R.T. 0.00 min
Lab File: VU034292.D
Acq: 05 Sep 2019 18:38

Instrument :
MSVOA_U
ClientSampleId :
VU0906WBSD02

Tot Ion	41	Resp	67451
Ion	Ratio	Lower	Upper
41	100		
39	50.0	41.0	61.4
67	77.8	62.4	93.6
52	28.1	23.6	35.4

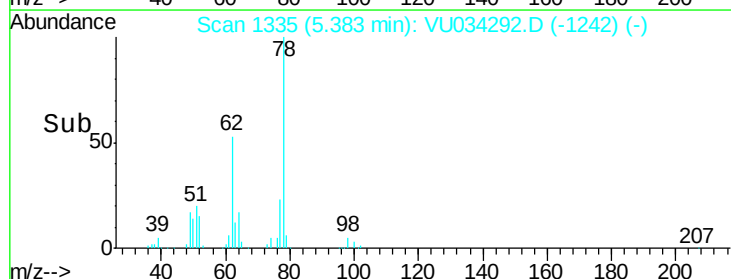
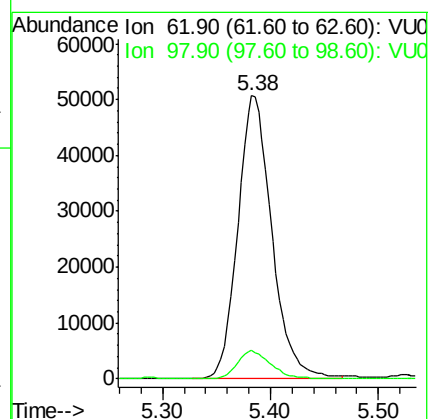
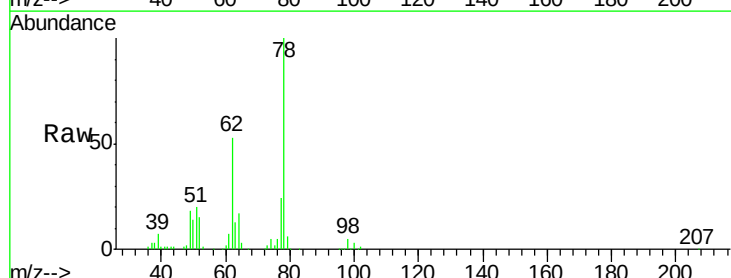
Manual Integrations
APPROVED

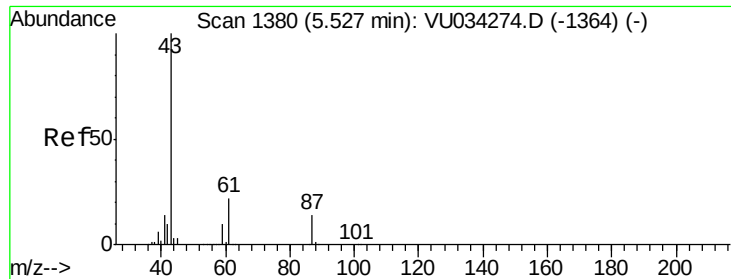
MMDadoda
9/6/2019 3:22:18 PM



#42
1,2-Dichloroethane
Concen: 19.639 ug/l
RT: 5.38 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VU034292.D
Acq: 05 Sep 2019 18:38

Tgt Ion	62	Resp	111434
Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	20.0





#43

Isopropyl Acetate

Concen: 20.150 ug/l

RT: 5.53 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VU034292.D

Acq: 05 Sep 2019 18:38

Instrument :

MSVOA_U

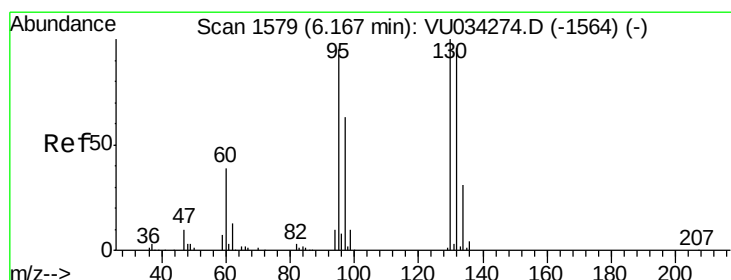
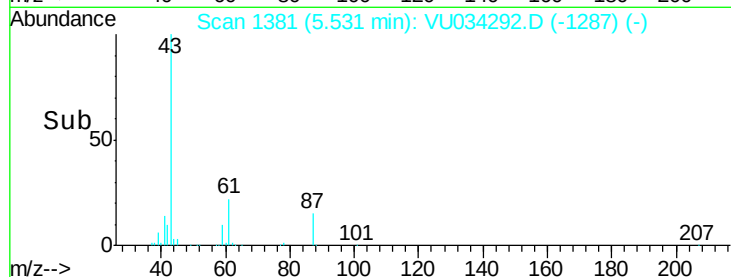
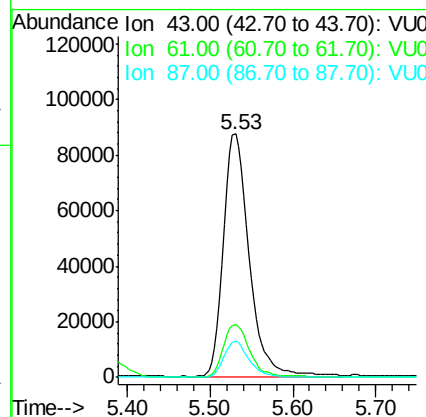
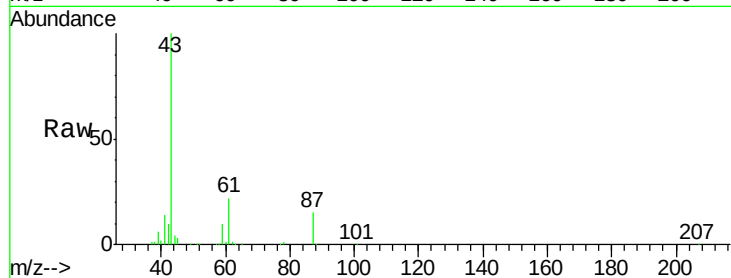
ClientSampleId :

VU0906WBSD02

Tot Ion:	43	Resp:	188229
Ion	Ratio	Lower	Upper
43	100		
61	22.2	17.1	25.7
87	14.4	11.1	16.7

Manual Integrations
APPROVED

MMDadoda
9/6/2019 3:22:18 PM



#44

Trichloroethene

Concen: 19.780 ug/l

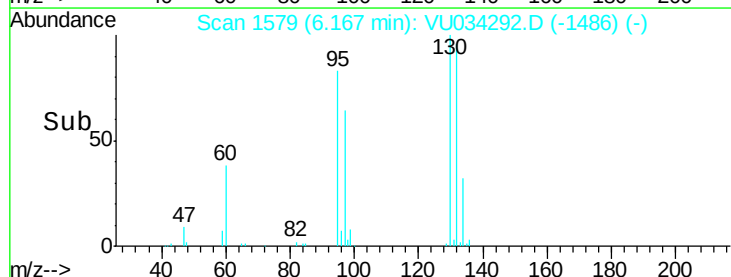
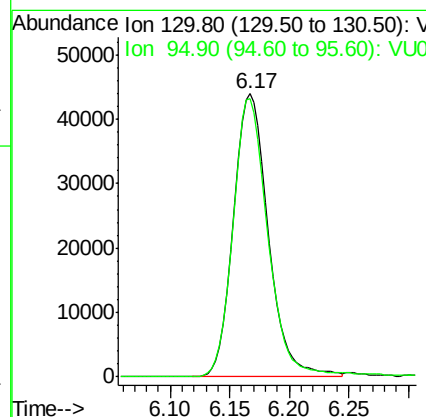
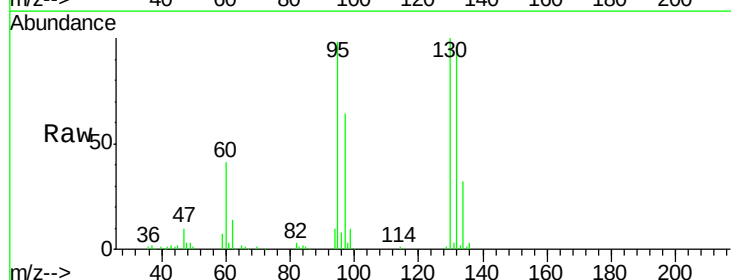
RT: 6.17 min Scan# 1579

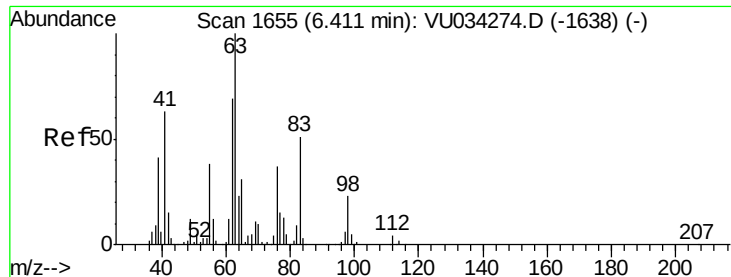
Delta R.T. 0.00 min

Lab File: VU034292.D

Acq: 05 Sep 2019 18:38

Tgt Ion:	130	Resp:	89453
Ion	Ratio	Lower	Upper
130	100		
95	98.2	0.0	189.2





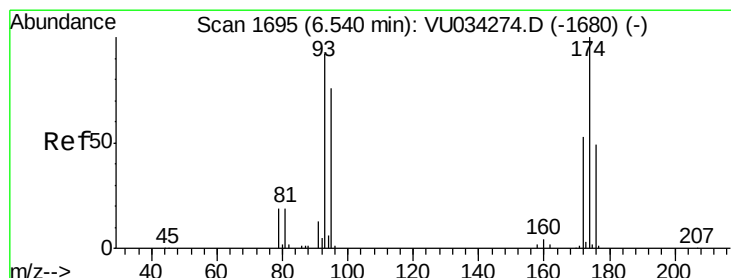
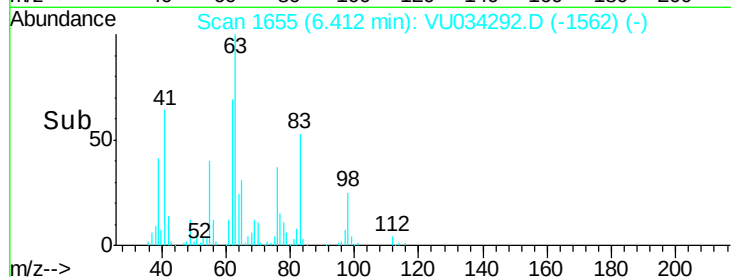
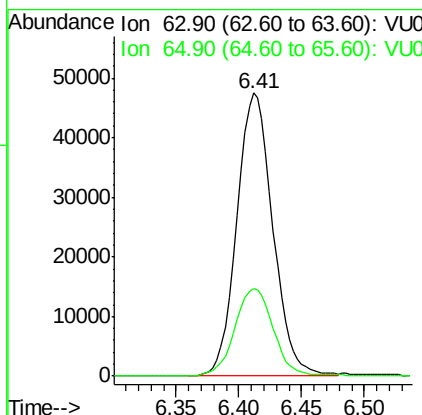
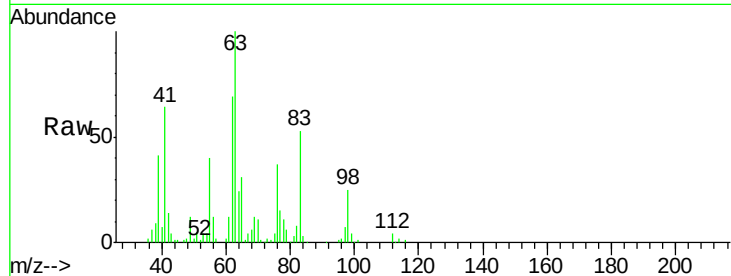
#45
 1,2-Dichloropropane
 Concen: 19.860 ug/l
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU034292.D
 Acq: 05 Sep 2019 18:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0906WBSD02

Tot Ion: 63 Resp: 94882
 Ion Ratio Lower Upper
 63 100
 65 31.1 24.6 37.0

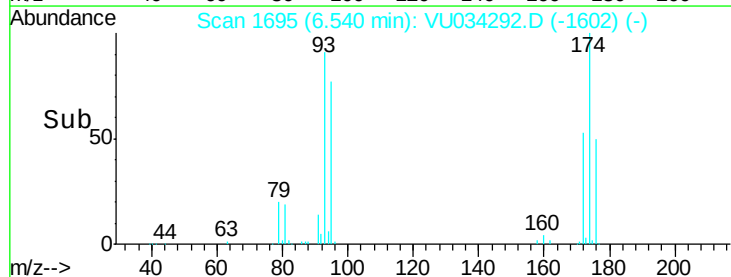
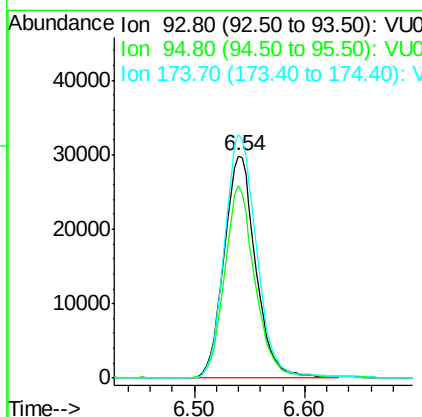
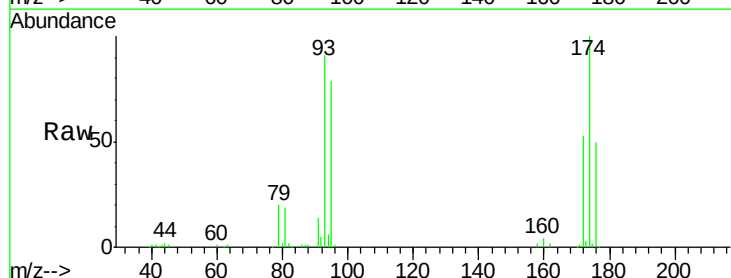
Manual Integrations
 APPROVED

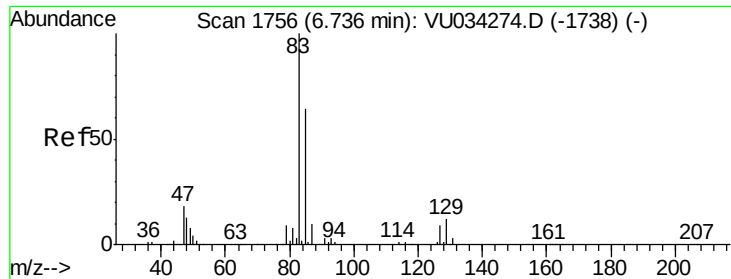
MMDadoda
 9/6/2019 3:22:18 PM



#46
 Dibromomethane
 Concen: 19.840 ug/l
 RT: 6.54 min Scan# 1695
 Delta R.T. 0.00 min
 Lab File: VU034292.D
 Acq: 05 Sep 2019 18:38

Tgt Ion: 93 Resp: 59498
 Ion Ratio Lower Upper
 93 100
 95 83.8 66.5 99.7
 174 108.9 87.8 131.6





#47

Bromodichloromethane

Concen: 19.436 ug/l

RT: 6.74 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VU034292.D

Acq: 05 Sep 2019 18:38

Instrument :

MSVOA_U

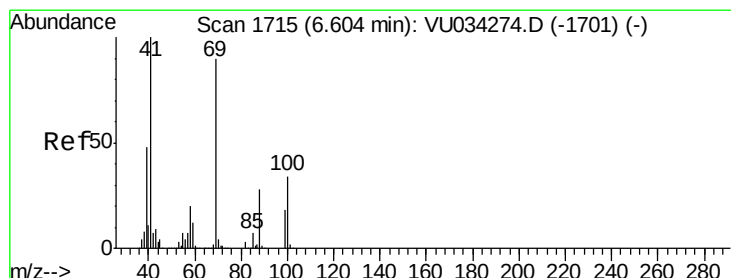
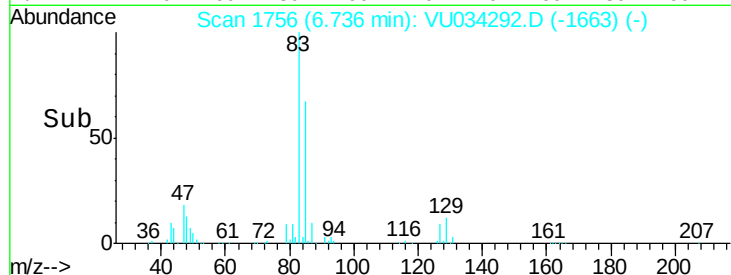
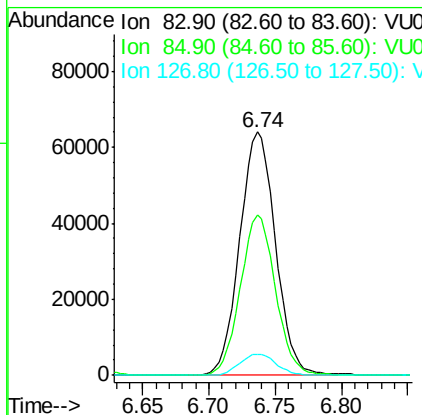
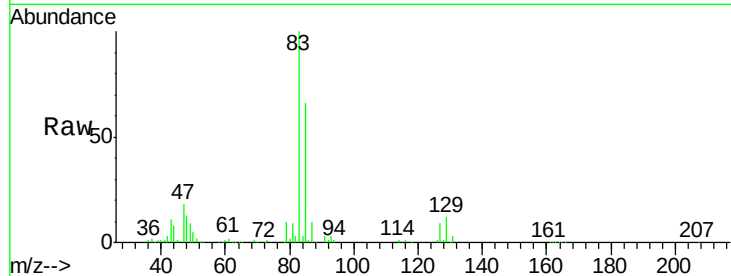
ClientSampleId :

VU0906WBSD02

Tot Ion:	83	Resp:	119981
Ion	Ratio	Lower	Upper
83	100		
85	65.8	51.1	76.7
127	8.8	7.2	10.8

Manual Integrations
APPROVED

MMDadoda
9/6/2019 3:22:18 PM



#48

Methyl methacrylate

Concen: 19.569 ug/l

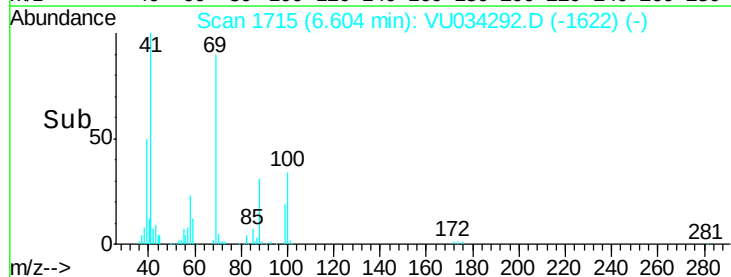
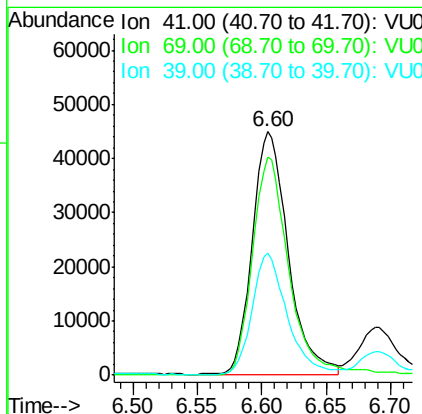
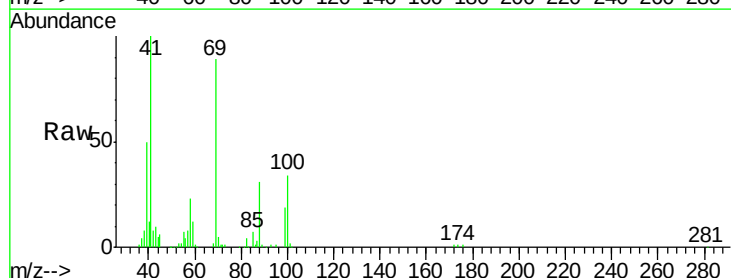
RT: 6.60 min Scan# 1715

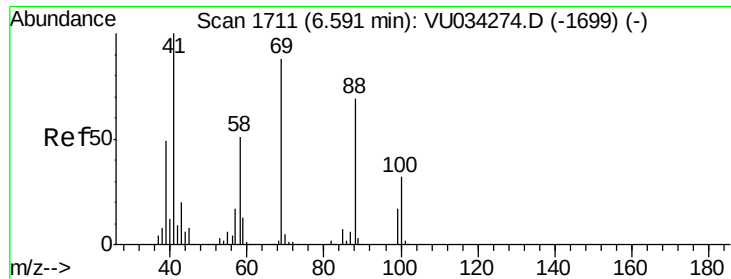
Delta R.T. 0.00 min

Lab File: VU034292.D

Acq: 05 Sep 2019 18:38

Tgt Ion:	41	Resp:	86824
Ion	Ratio	Lower	Upper
41	100		
69	92.5	72.8	109.2
39	49.3	38.6	58.0





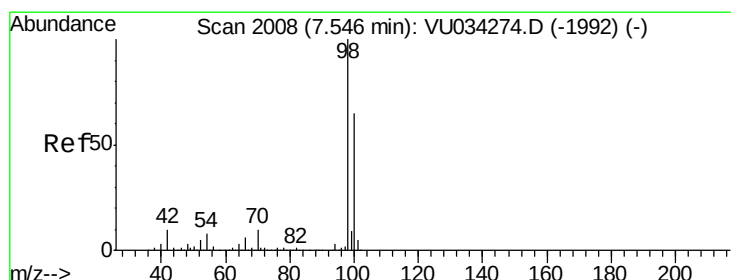
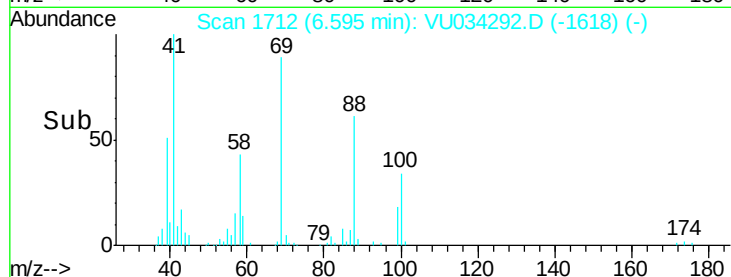
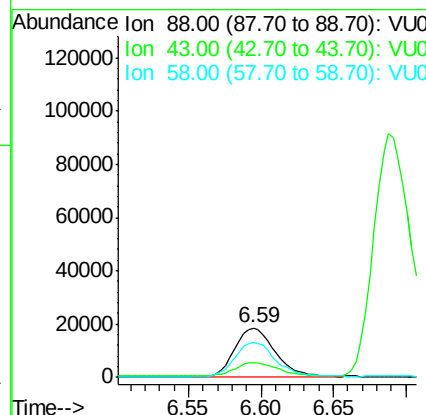
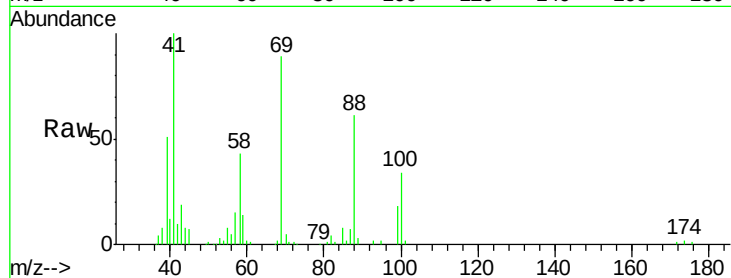
#49
1,4-Dioxane
Concen: 377.859 ug/l
RT: 6.59 min Scan# 1712
Delta R.T. 0.00 min
Lab File: VU034292.D
Acq: 05 Sep 2019 18:38

Instrument :
MSVOA_U
ClientSampleId :
VU0906WBSD02

Tot Ion	Ratio	Lower	Upper
88	100		
43	28.0	23.8	35.6
58	72.4	58.4	87.6

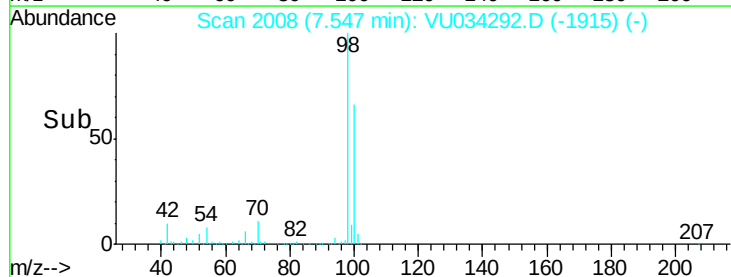
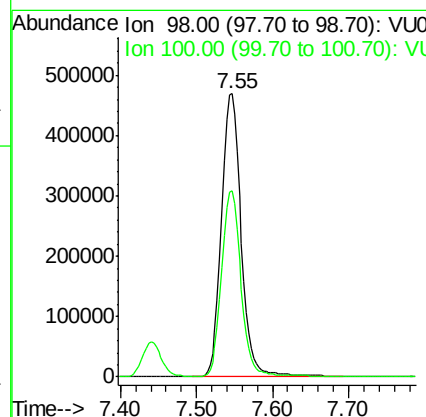
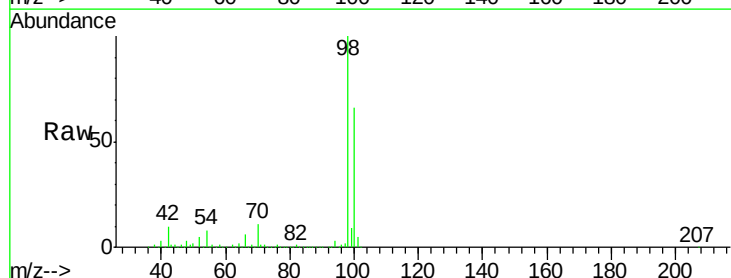
Manual Integrations
APPROVED

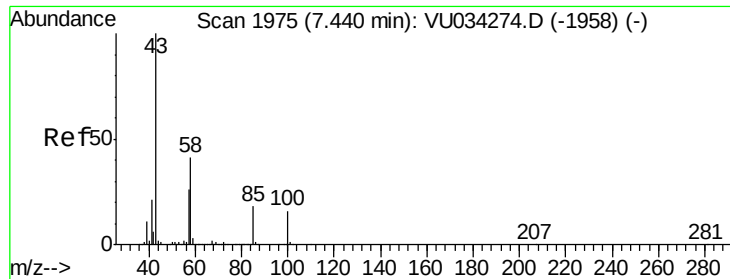
MMDadoda
9/6/2019 3:22:18 PM



#50
Toluene-d8
Concen: 51.861 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034292.D
Acq: 05 Sep 2019 18:38

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.1	51.7	77.5





#51

4-Methyl-2-Pentanone

Concen: 101.017 ug/l

RT: 7.44 min Scan# 1975

Delta R.T. 0.00 min

Lab File: VU034292.D

Acq: 05 Sep 2019 18:38

Instrument :

MSVOA_U

ClientSampleId :

VU0906WBSD02

Tot Ion: 43 Resp: 653184

Ion Ratio Lower Upper

43 100

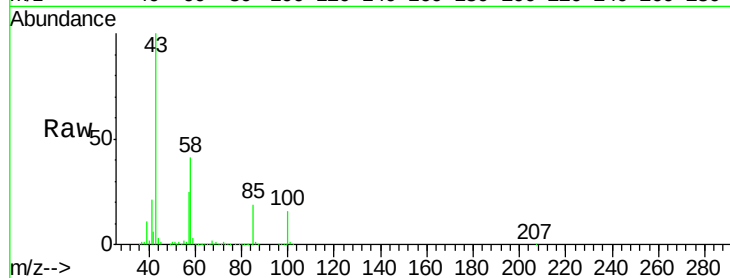
58 41.2 33.0 49.4

Manual Integrations

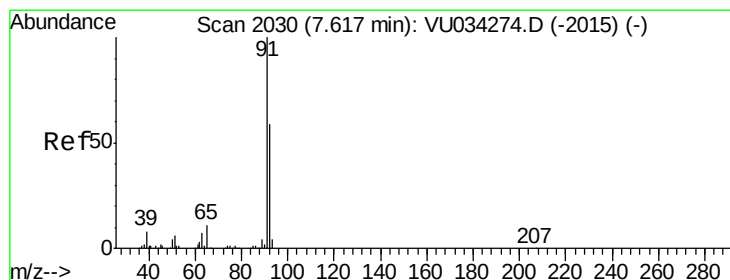
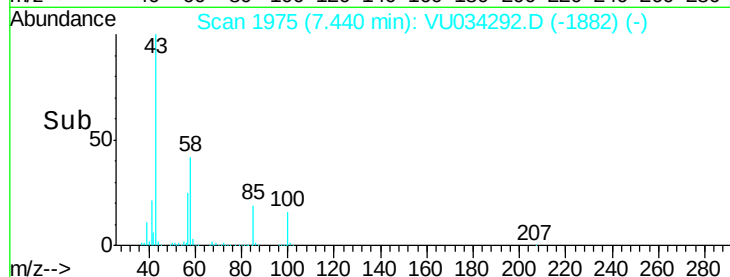
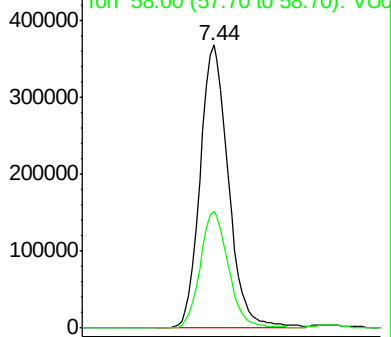
APPROVED

MMDadoda

9/6/2019 3:22:18 PM



Abundance Ion 43.00 (42.70 to 43.70): VU034292.D (-1882) (-)



#52

Toluene

Concen: 20.040 ug/l

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU034292.D

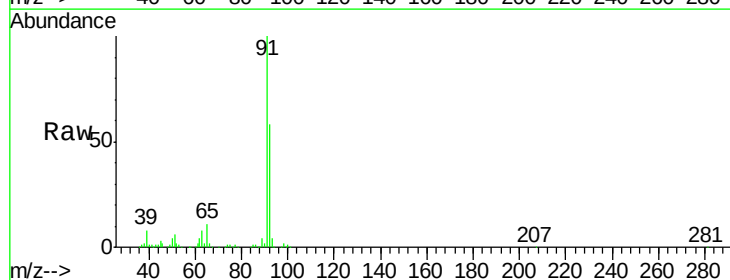
Acq: 05 Sep 2019 18:38

Tgt Ion: 92 Resp: 205445

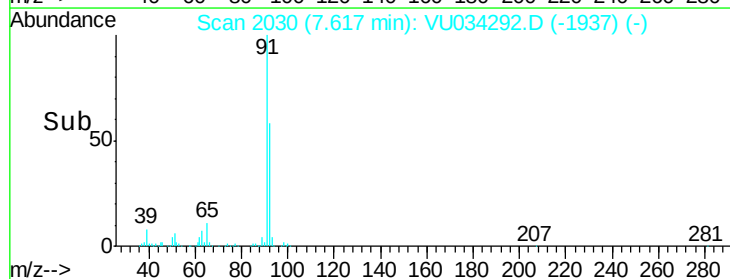
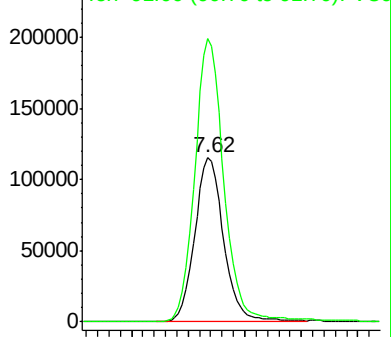
Ion Ratio Lower Upper

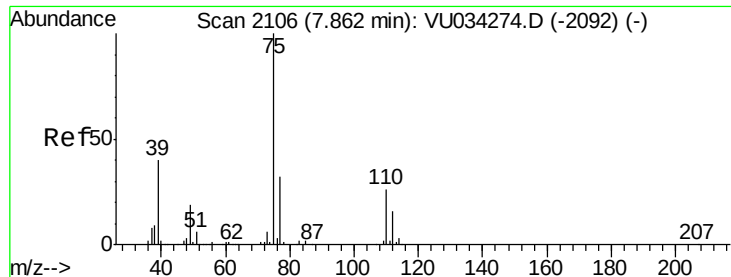
92 100

91 174.4 136.6 205.0



Abundance Ion 92.00 (91.70 to 92.70): VU034292.D (-1937) (-)





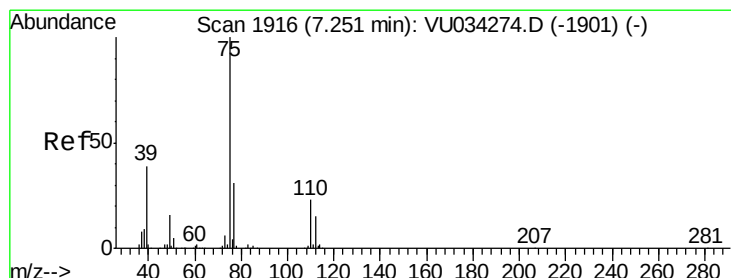
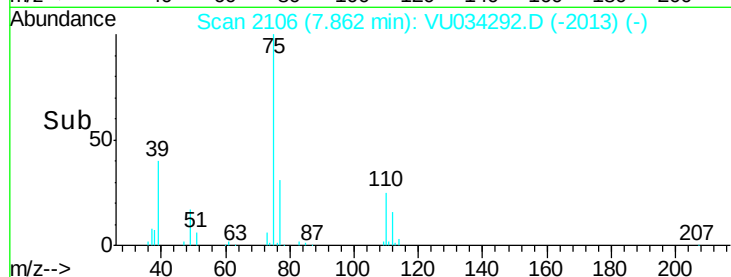
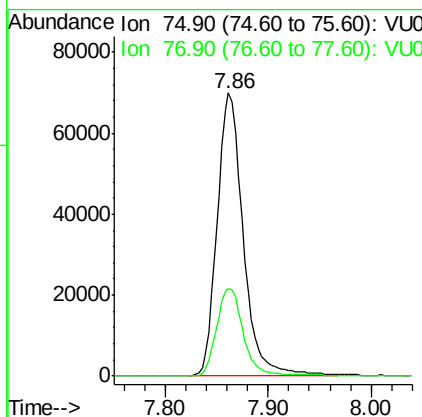
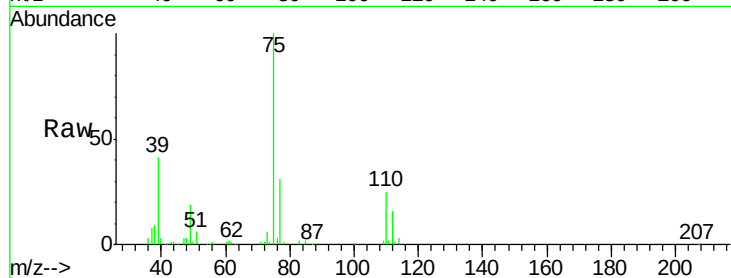
#53
t-1,3-Dichloropropene
Concen: 19.269 ug/l
RT: 7.86 min Scan# 2106
Delta R.T. 0.00 min
Lab File: VU034292.D
Acq: 05 Sep 2019 18:38

Instrument :
MSVOA_U
ClientSampleId :
VU0906WBSD02

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.7	38.5

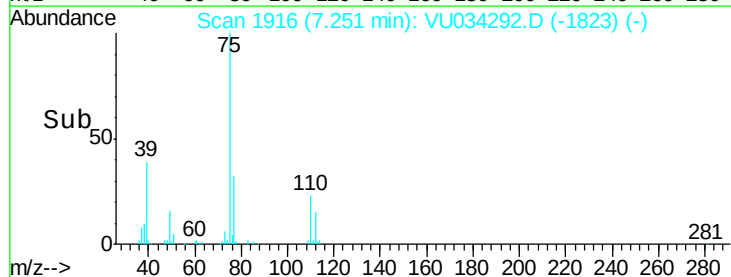
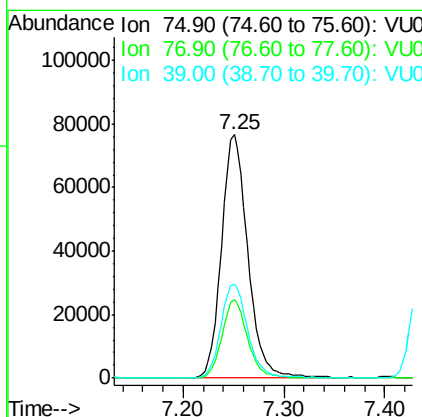
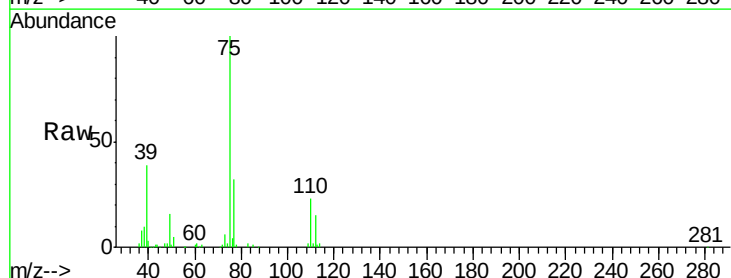
Manual Integrations
APPROVED

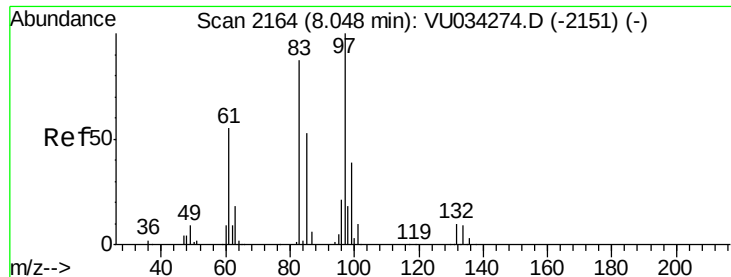
MMDadoda
9/6/2019 3:22:18 PM



#54
cis-1,3-Dichloropropene
Concen: 19.981 ug/l
RT: 7.25 min Scan# 1916
Delta R.T. 0.00 min
Lab File: VU034292.D
Acq: 05 Sep 2019 18:38

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.4	25.1	37.7
39	38.6	31.2	46.8





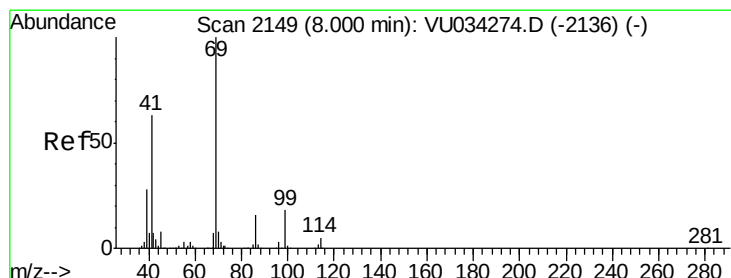
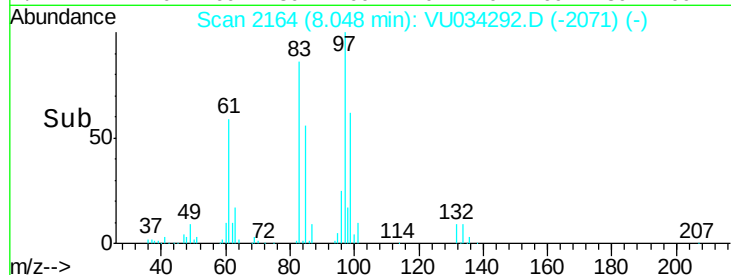
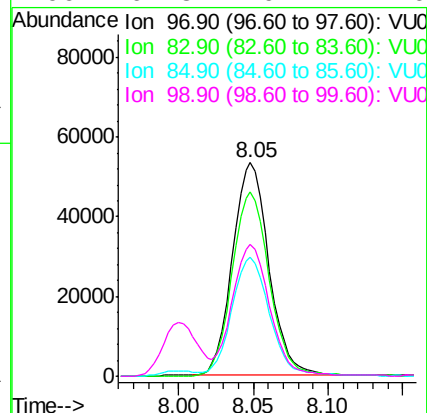
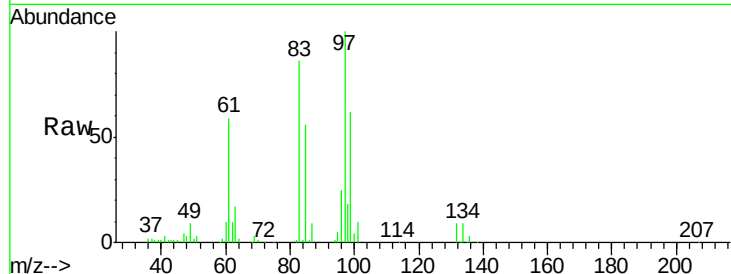
#55
 1,1,2-Trichloroethane
 Concen: 19.348 ug/l
 RT: 8.05 min Scan# 2164
 Delta R.T. 0.00 min
 Lab File: VU034292.D
 Acq: 05 Sep 2019 18:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0906WBSD02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		90067		
83	86.5	69.0	103.6		
85	55.3	44.2	66.2		
99	61.8	49.4	74.0		

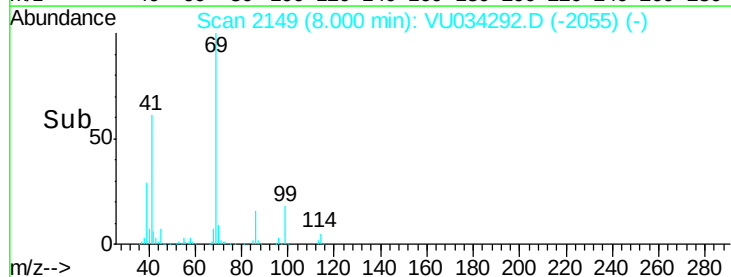
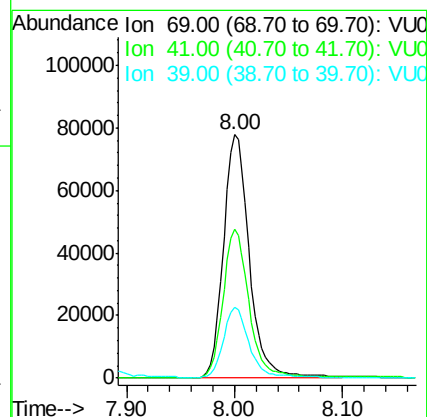
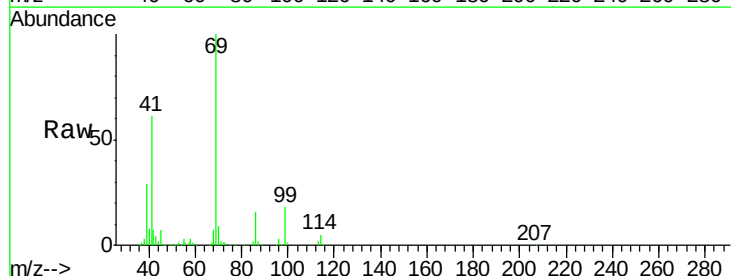
Manual Integrations
 APPROVED

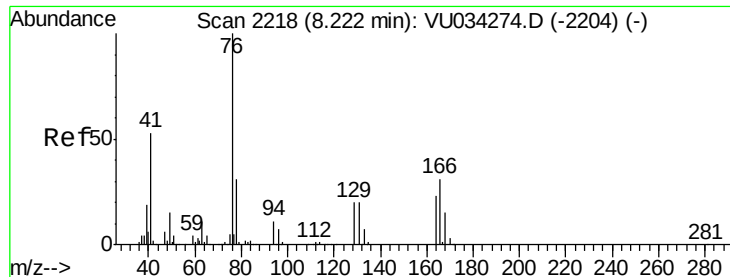
MMDadoda
 9/6/2019 3:22:18 PM



#56
 Ethyl methacrylate
 Concen: 20.367 ug/l
 RT: 8.00 min Scan# 2149
 Delta R.T. 0.00 min
 Lab File: VU034292.D
 Acq: 05 Sep 2019 18:38

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		130301		
41	60.1	49.5	74.3		
39	27.6	22.5	33.7		





#57

1,3-Dichloropropane

Concen: 19.571 ug/l

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VU034292.D

Acq: 05 Sep 2019 18:38

Instrument :

MSVOA_U

ClientSampleId :

VU0906WBSD02

Tot Ion: 76 Resp: 148348

Ion Ratio Lower Upper

76 100

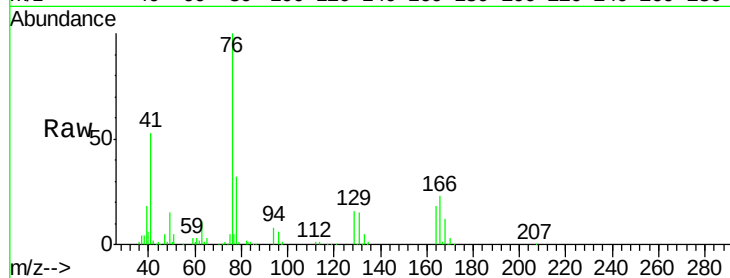
78 32.6 25.4 38.2

Manual Integrations

APPROVED

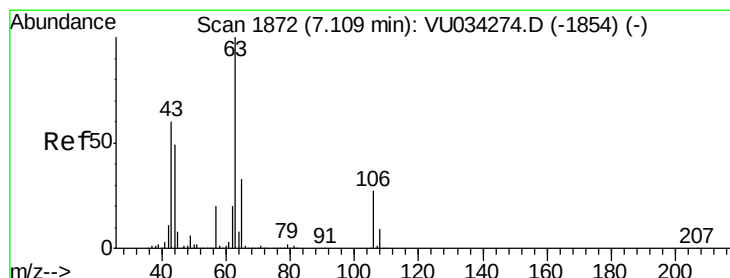
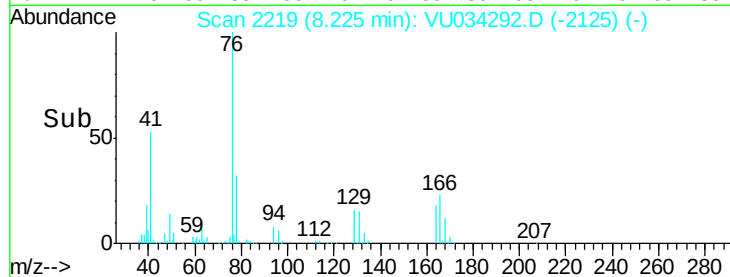
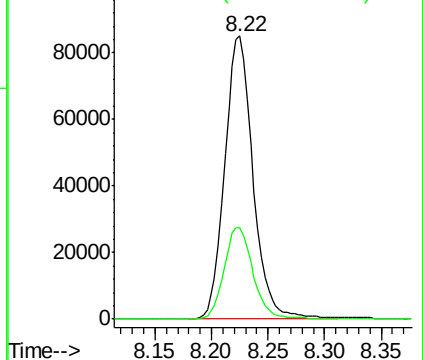
MMDadoda

9/6/2019 3:22:18 PM



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



#58

2-Chloroethyl Vinyl ether

Concen: 96.126 ug/l

RT: 7.11 min Scan# 1872

Delta R.T. 0.00 min

Lab File: VU034292.D

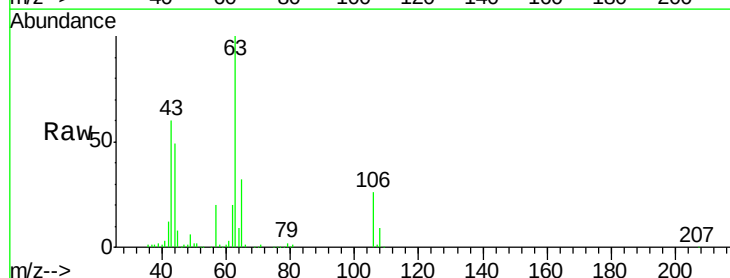
Acq: 05 Sep 2019 18:38

Tgt Ion: 63 Resp: 203792

Ion Ratio Lower Upper

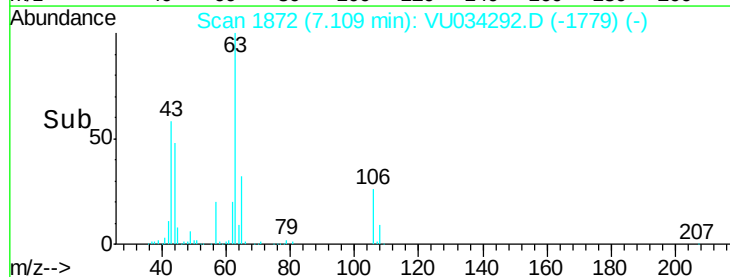
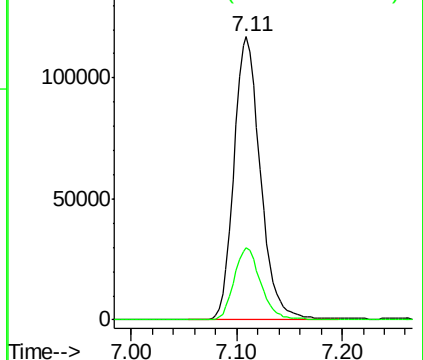
63 100

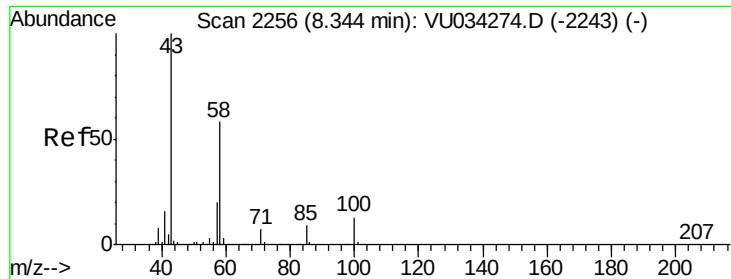
106 25.8 21.6 32.4



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 105.90 (105.60 to 106.60): V





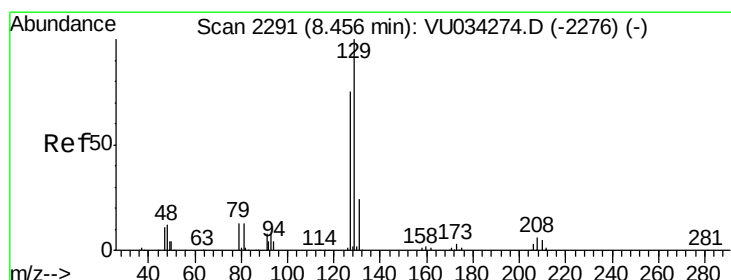
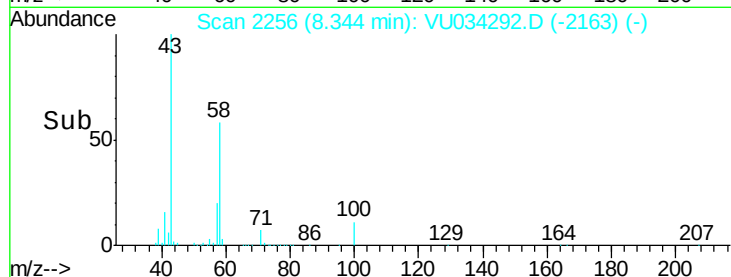
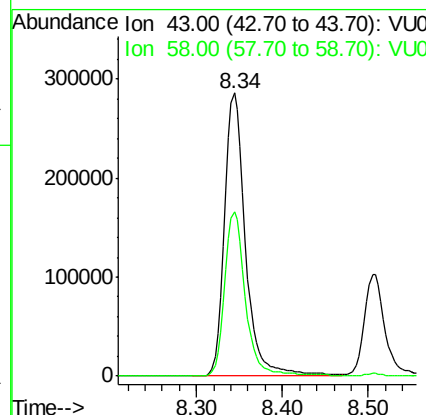
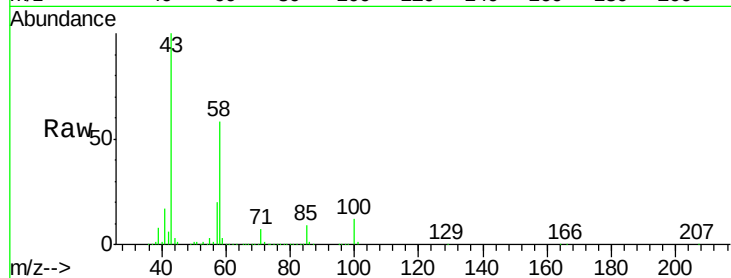
#59
2-Hexanone
Concen: 100.194 ug/l
RT: 8.34 min Scan# 2256
Delta R.T. 0.00 min
Lab File: VU034292.D
Acq: 05 Sep 2019 18:38

Instrument :
MSVOA_U
ClientSampleId :
VU0906WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
58	57.6	28.8	86.5

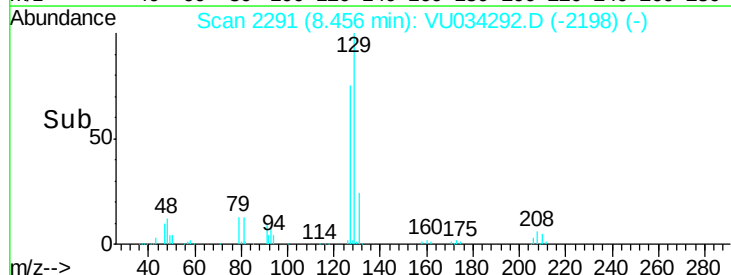
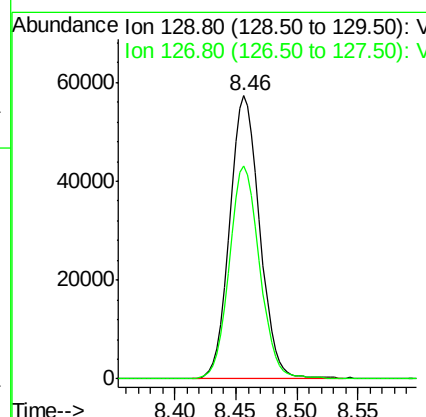
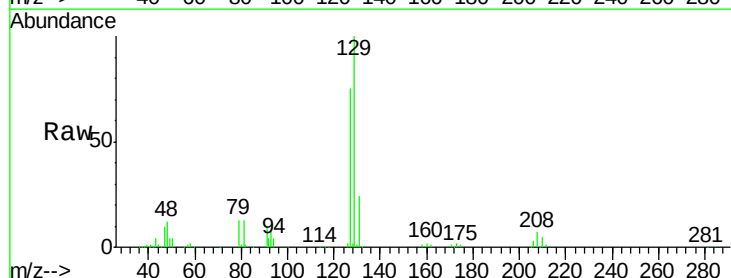
Manual Integrations
APPROVED

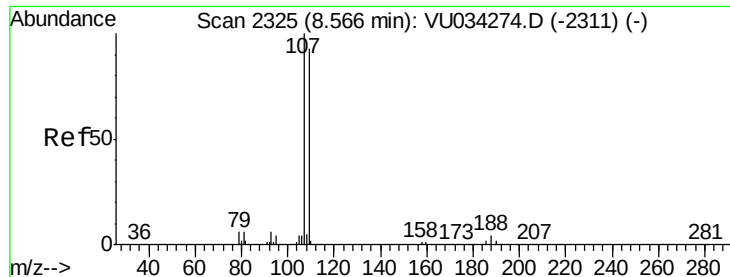
MMDadoda
9/6/2019 3:22:18 PM



#60
Dibromochloromethane
Concen: 19.845 ug/l
RT: 8.46 min Scan# 2291
Delta R.T. 0.00 min
Lab File: VU034292.D
Acq: 05 Sep 2019 18:38

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.0	37.9	113.7





#61

1,2-Dibromoethane

Concen: 19.799 ug/l

RT: 8.57 min Scan# 2326

Delta R.T. 0.00 min

Lab File: VU034292.D

Acq: 05 Sep 2019 18:38

Instrument :

MSVOA_U

ClientSampleId :

VU0906WBSD02

Tot Ion:107 Resp: 90208

Ion Ratio Lower Upper

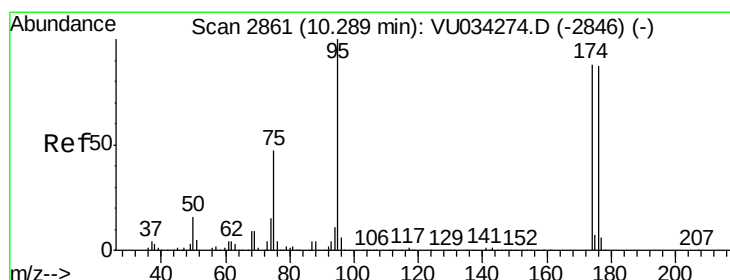
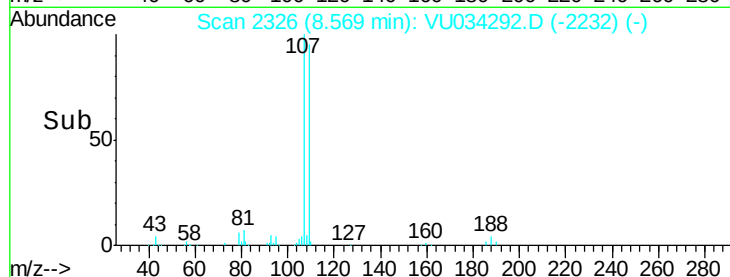
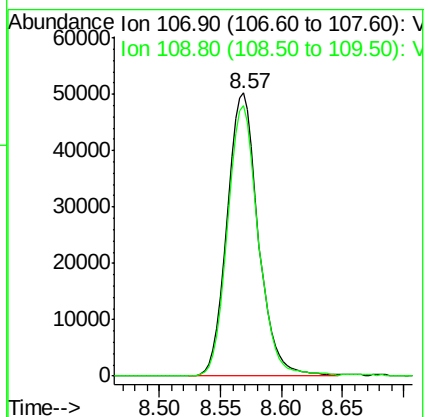
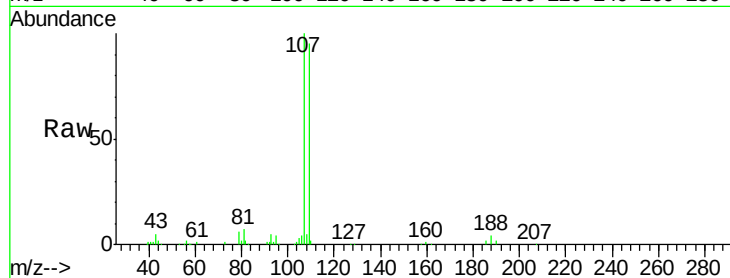
107 100

109 94.6 75.0 112.6

Manual Integrations
APPROVED

MMDadoda

9/6/2019 3:22:18 PM



#62

4-Bromofluorobenzene

Concen: 49.612 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VU034292.D

Acq: 05 Sep 2019 18:38

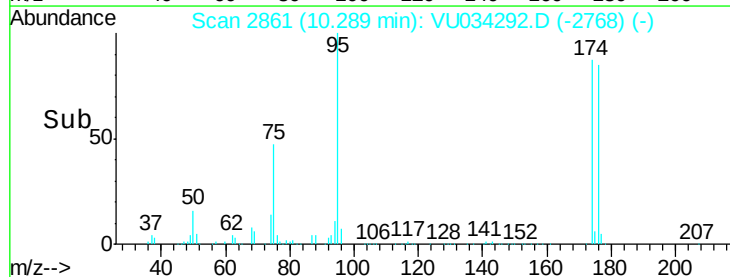
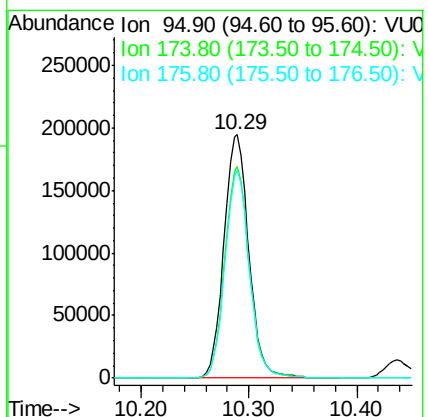
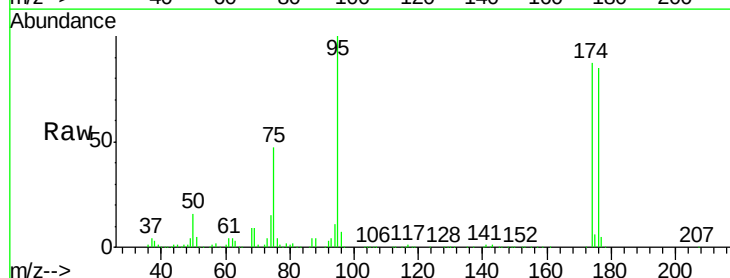
Tgt Ion: 95 Resp: 312722

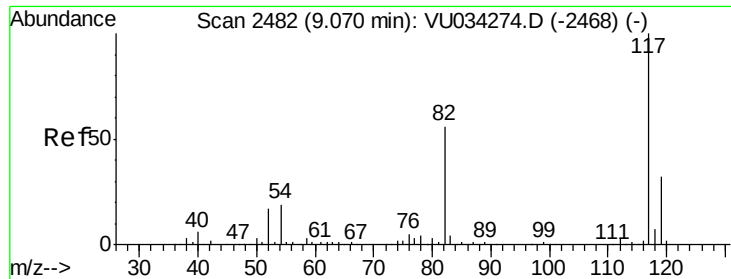
Ion Ratio Lower Upper

95 100

174 86.6 0.0 175.2

176 83.8 0.0 168.0





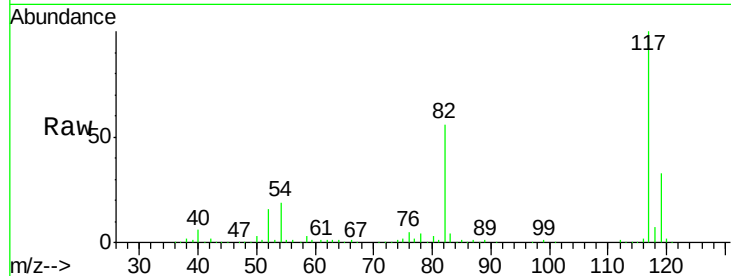
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034292.D
Acq: 05 Sep 2019 18:38

Instrument :
MSVOA_U
ClientSampleId :
VU0906WBSD02

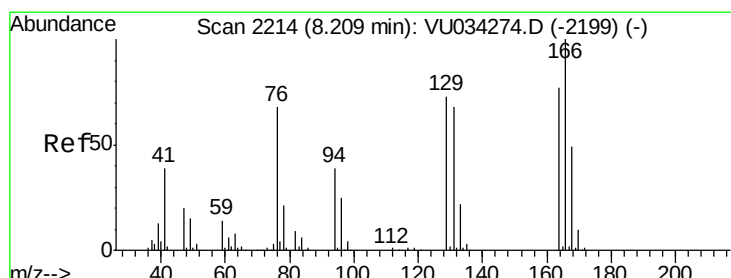
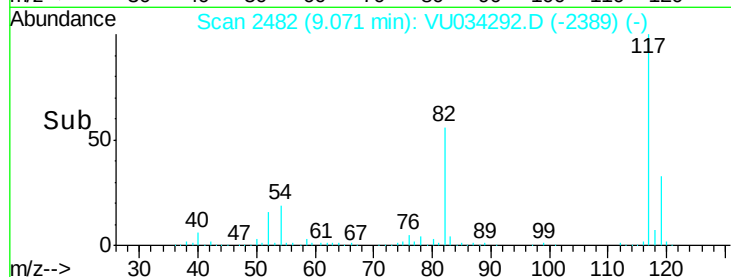
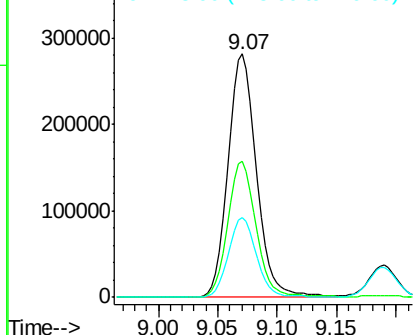
Tot Ion	Ratio	Lower	Upper
117	100		
82	55.7	44.6	67.0
119	32.9	25.9	38.9

Manual Integrations
APPROVED

MMDadoda
9/6/2019 3:22:18 PM



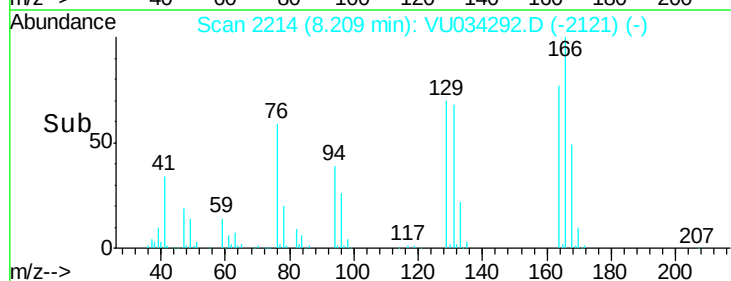
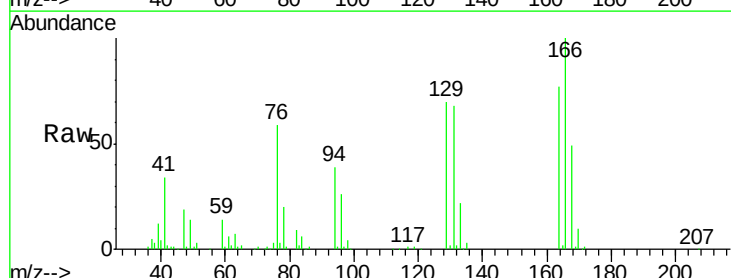
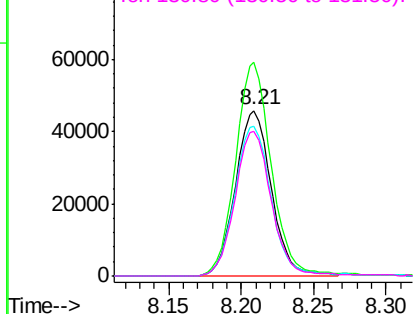
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

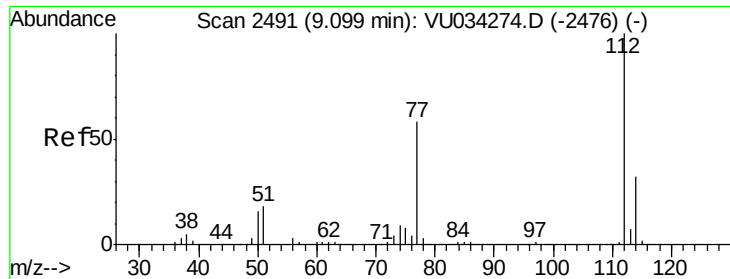


#64
Tetrachloroethene
Concen: 19.424 ug/l
RT: 8.21 min Scan# 2214
Delta R.T. 0.00 min
Lab File: VU034292.D
Acq: 05 Sep 2019 18:38

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.3	103.7	155.5
129	90.7	75.8	113.8
131	87.9	70.7	106.1

Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





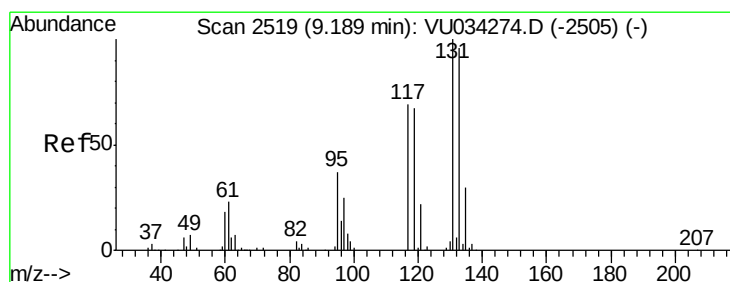
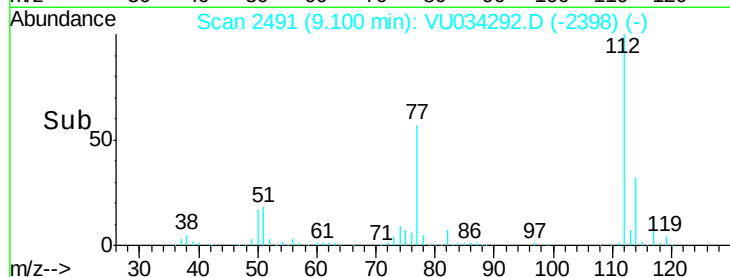
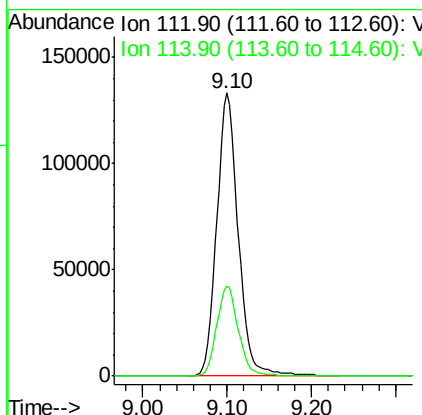
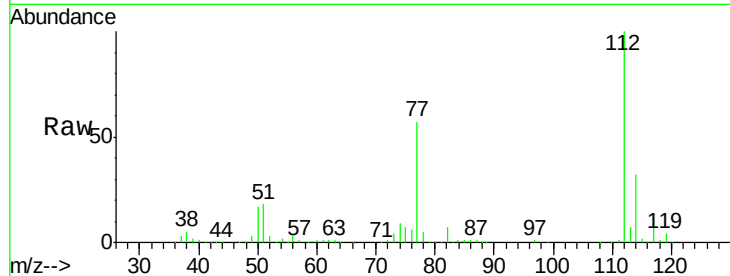
#65
Chlorobenzene
Concen: 19.868 ug/l
RT: 9.10 min Scan# 2491
Delta R.T. 0.00 min
Lab File: VU034292.D
Acq: 05 Sep 2019 18:38

Instrument :
MSVOA_U
ClientSampleId :
VU0906WBSD02

Tot Ion:112 Resp: 235586
Ion Ratio Lower Upper
112 100
114 32.0 25.9 38.9

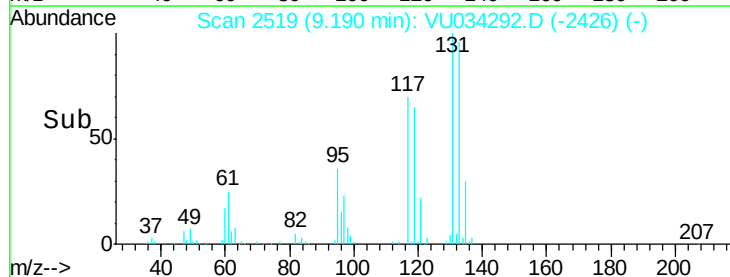
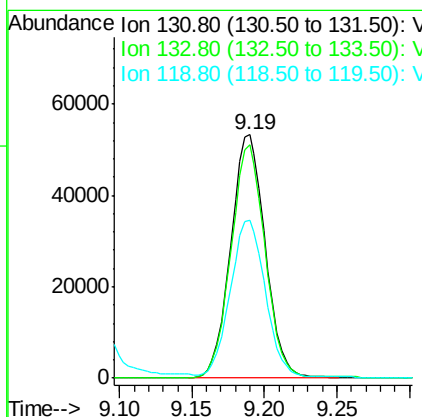
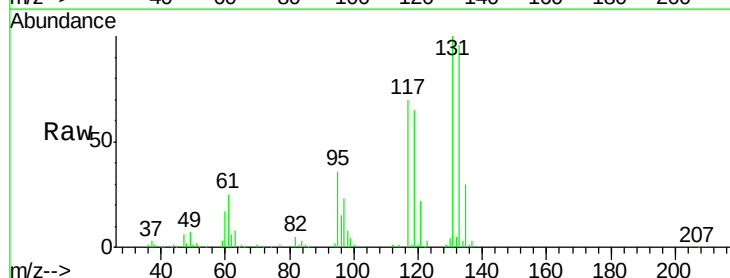
Manual Integrations
APPROVED

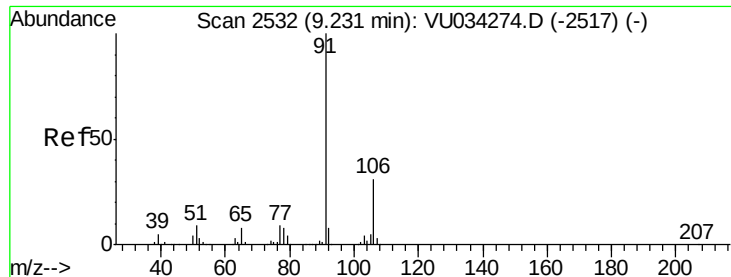
MMDadoda
9/6/2019 3:22:18 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.431 ug/l
RT: 9.19 min Scan# 2519
Delta R.T. 0.00 min
Lab File: VU034292.D
Acq: 05 Sep 2019 18:38

Tgt Ion:131 Resp: 87931
Ion Ratio Lower Upper
131 100
133 94.9 47.9 143.7
119 65.7 33.1 99.5





#67

Ethyl Benzene

Concen: 20.226 ug/l

RT: 9.23 min Scan# 2532

Delta R.T. 0.00 min

Lab File: VU034292.D

Acq: 05 Sep 2019 18:38

Instrument :

MSVOA_U

ClientSampleId :

VU0906WBSD02

Tot Ion: 91 Resp: 392130

Ion Ratio Lower Upper

91 100

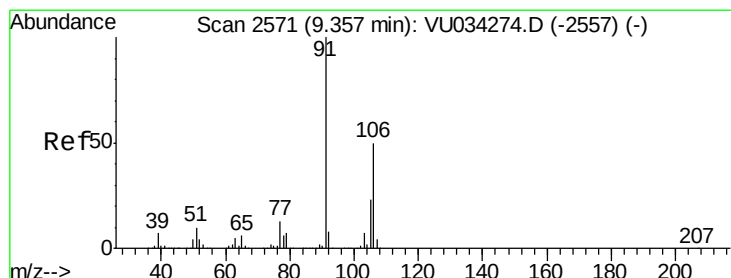
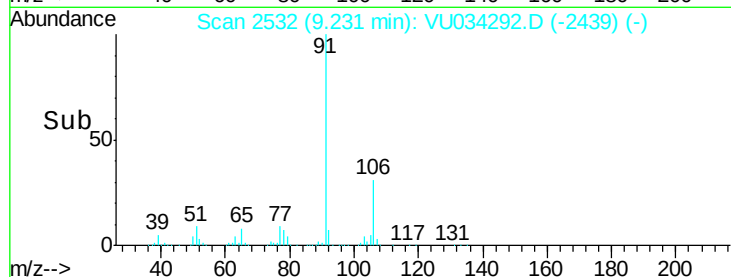
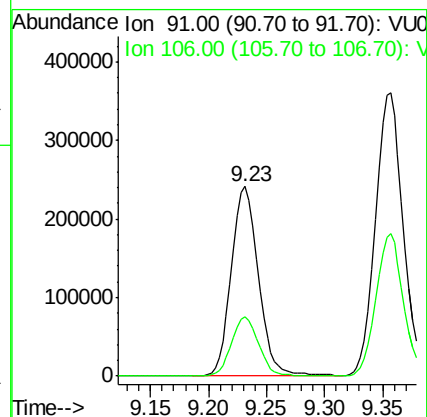
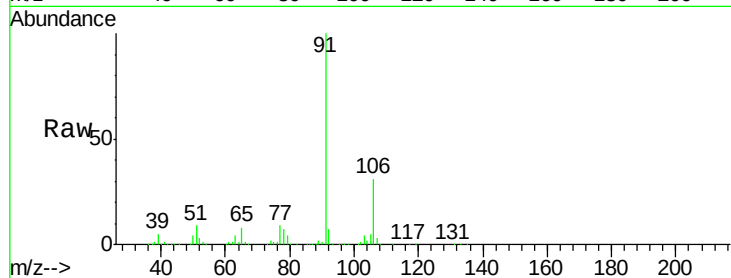
106 31.3 24.8 37.2

Manual Integrations

APPROVED

MMDadoda

9/6/2019 3:22:18 PM



#68

m/p-Xylenes

Concen: 40.996 ug/l

RT: 9.36 min Scan# 2571

Delta R.T. 0.00 min

Lab File: VU034292.D

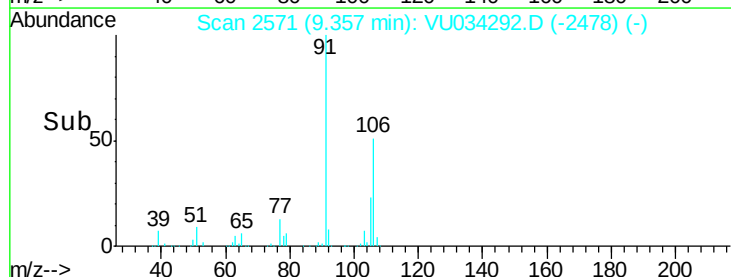
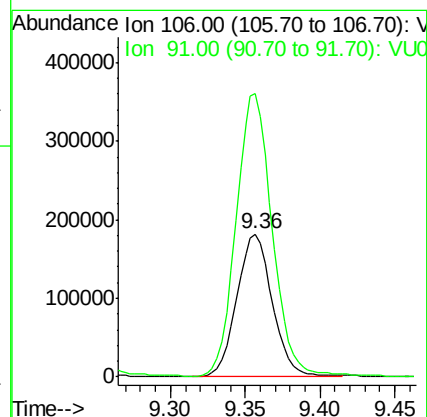
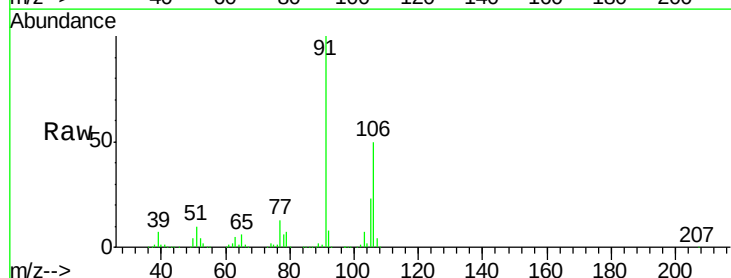
Acq: 05 Sep 2019 18:38

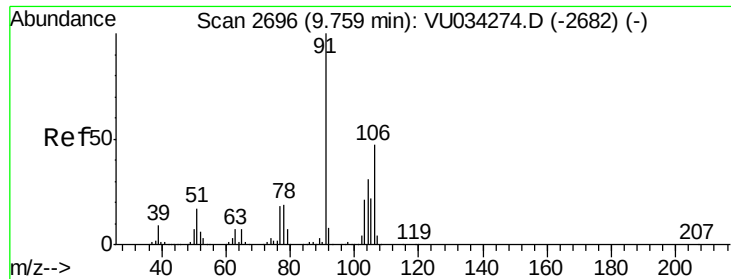
Tgt Ion: 106 Resp: 299303

Ion Ratio Lower Upper

106 100

91 203.4 160.1 240.1





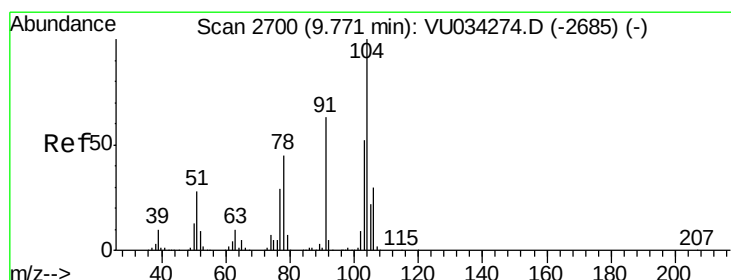
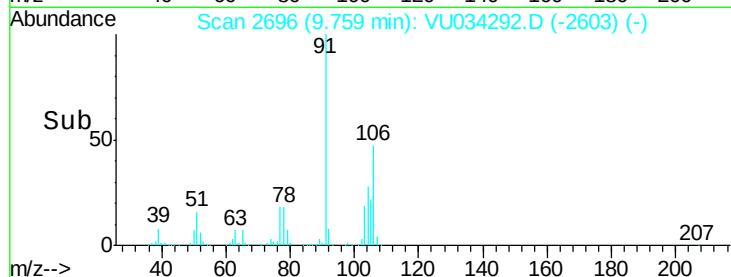
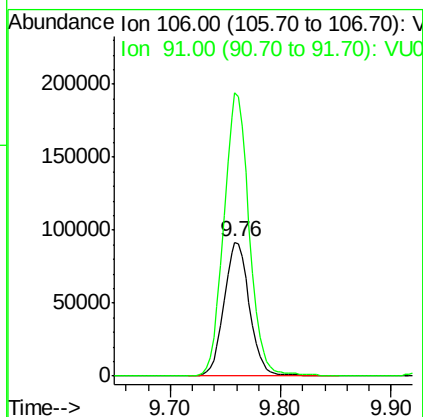
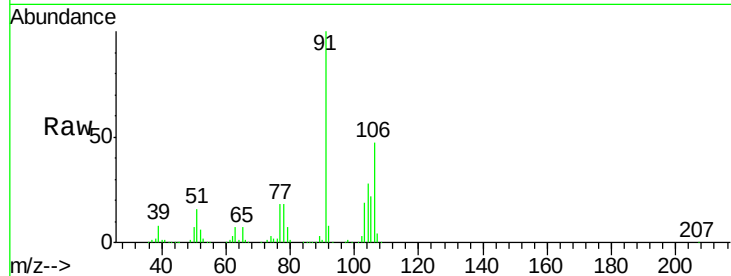
#69
o-Xylene
Concen: 20.681 ug/l
RT: 9.76 min Scan# 2696
Delta R.T. 0.00 min
Lab File: VU034292.D
Acq: 05 Sep 2019 18:38

Instrument :
MSVOA_U
ClientSampleId :
VU0906WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
106	100	147656		
91	210.7	105.1	315.3	

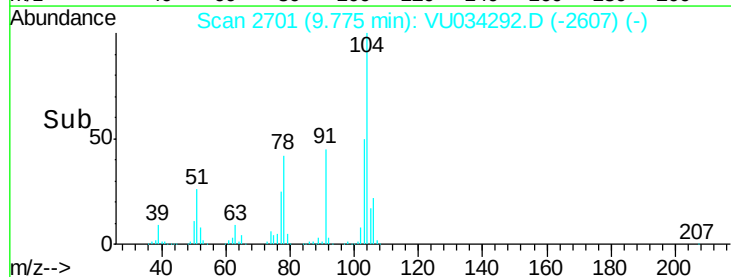
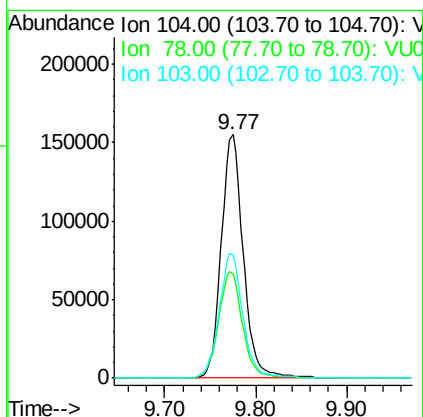
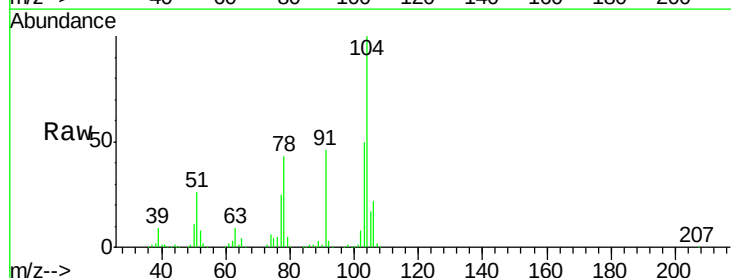
Manual Integrations
APPROVED

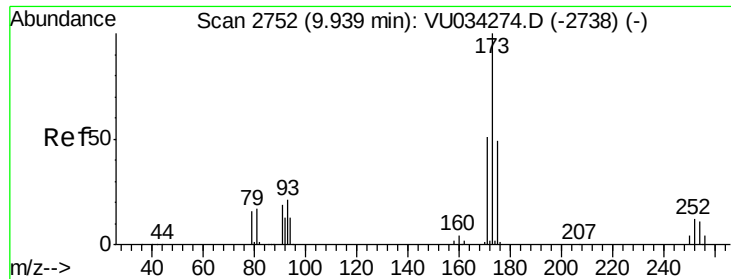
MMDadoda
9/6/2019 3:22:18 PM



#70
Styrene
Concen: 20.973 ug/l
RT: 9.77 min Scan# 2701
Delta R.T. 0.00 min
Lab File: VU034292.D
Acq: 05 Sep 2019 18:38

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	262536		
78	47.5	38.6	57.8	
103	54.7	44.2	66.4	





#71

Bromoform

Concen: 19.445 ug/l

RT: 9.94 min Scan# 2752

Delta R.T. 0.00 min

Lab File: VU034292.D

Acq: 05 Sep 2019 18:38

Instrument :

MSVOA_U

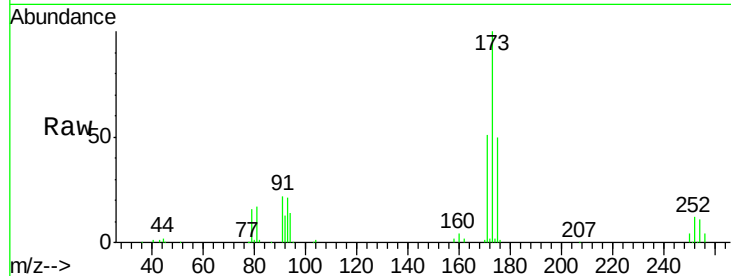
ClientSampleId :

VU0906WBSD02

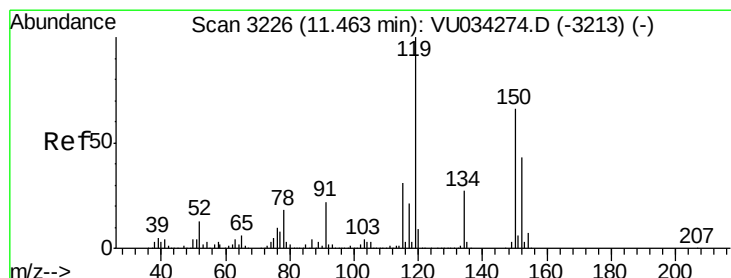
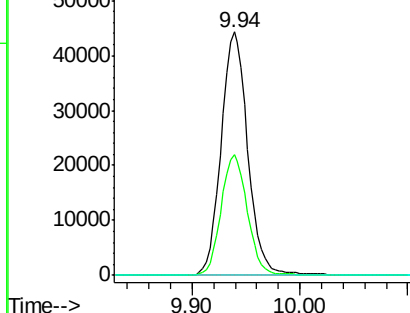
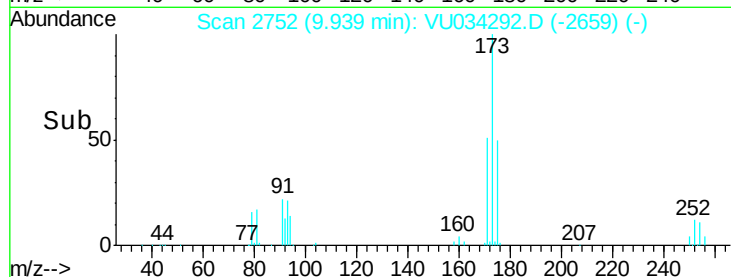
Tot Ion:	173	Resp:	76261
Ion Ratio	Lower	Upper	
173	100		
175	48.8	24.4	73.2
254	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
9/6/2019 3:22:18 PM



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

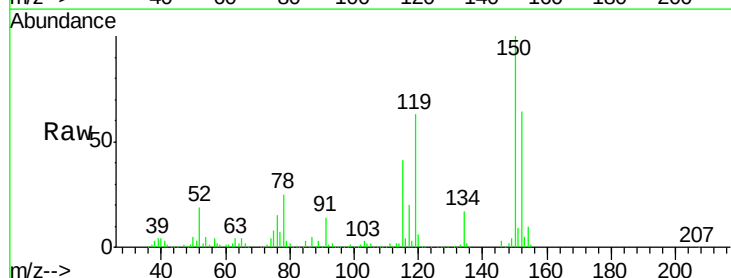
RT: 11.46 min Scan# 3226

Delta R.T. 0.00 min

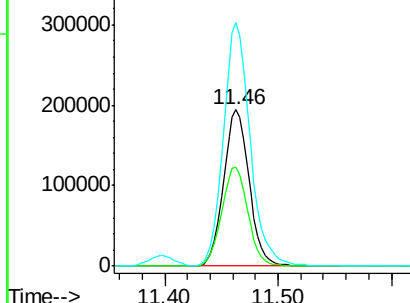
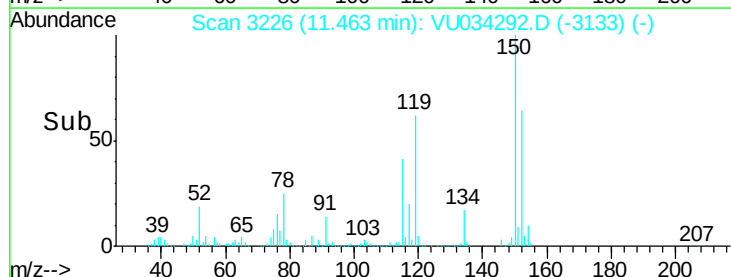
Lab File: VU034292.D

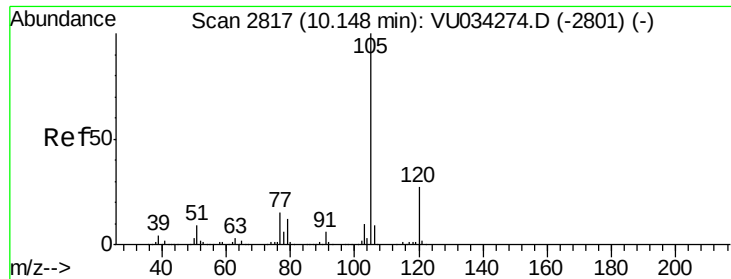
Acq: 05 Sep 2019 18:38

Tgt Ion:	152	Resp:	305028
Ion Ratio	Lower	Upper	
152	100		
115	65.0	39.1	117.3
150	162.5	0.0	345.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.377 ug/l

RT: 10.15 min Scan# 2817

Delta R.T. 0.00 min

Lab File: VU034292.D

Acq: 05 Sep 2019 18:38

Instrument :

MSVOA_U

ClientSampleId :

VU0906WBSD02

Tot Ion: 105 Resp: 404491

Ion Ratio Lower Upper

105 100

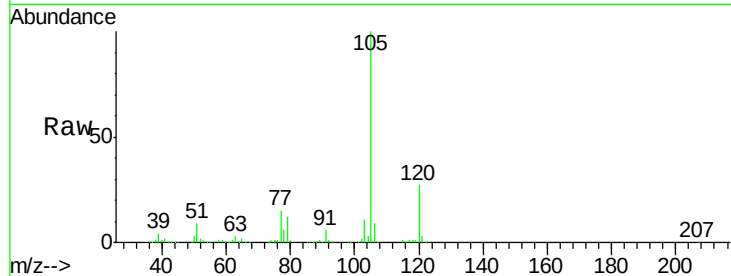
120 26.9 13.4 40.2

Manual Integrations

APPROVED

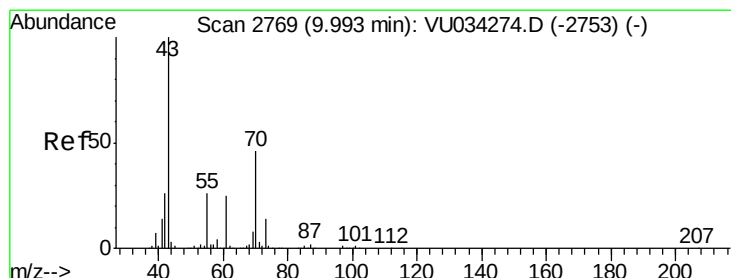
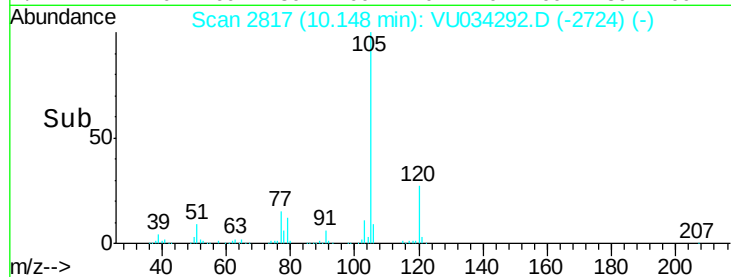
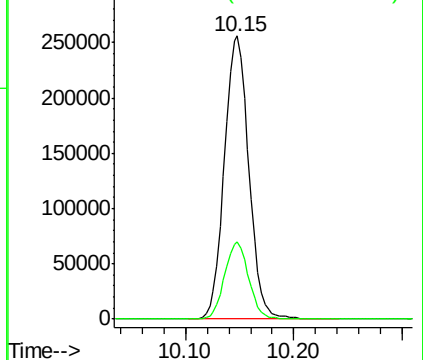
MMDadoda

9/6/2019 3:22:18 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 20.106 ug/l

RT: 10.00 min Scan# 2770

Delta R.T. 0.00 min

Lab File: VU034292.D

Acq: 05 Sep 2019 18:38

Tgt Ion: 43 Resp: 160654

Ion Ratio Lower Upper

43 100

70 45.5 36.4 54.6

55 26.8 21.2 31.8

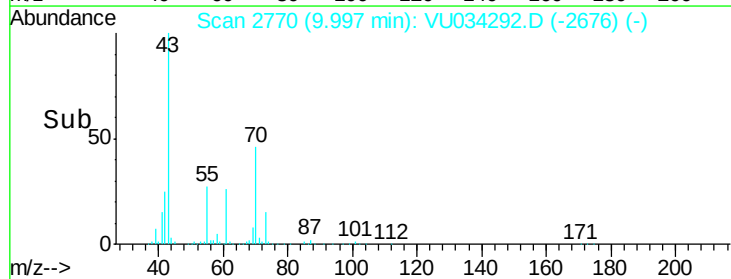
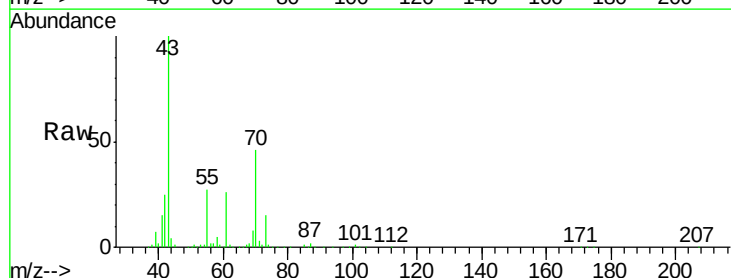
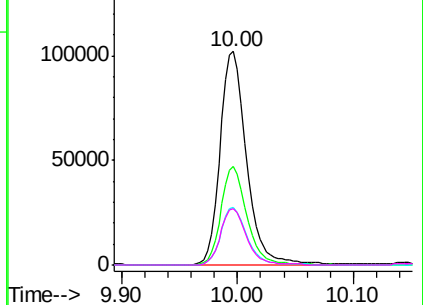
61 26.2 20.4 30.6

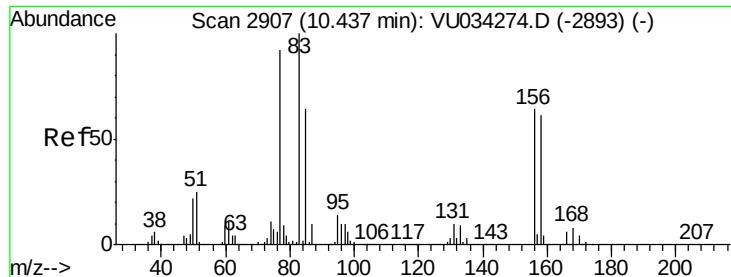
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0





#75

1,1,2,2-Tetrachloroethane

Concen: 19.612 ug/l

RT: 10.44 min Scan# 2907

Delta R.T. 0.00 min

Lab File: VU034292.D

Acq: 05 Sep 2019 18:38

Instrument :

MSVOA_U

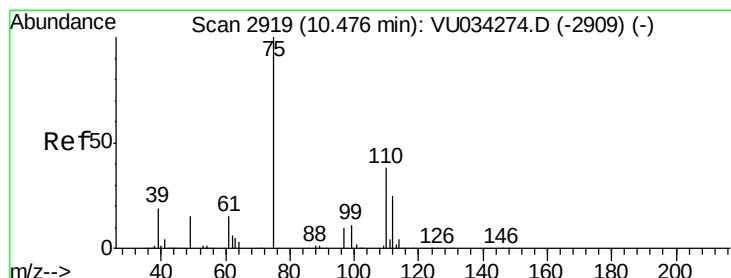
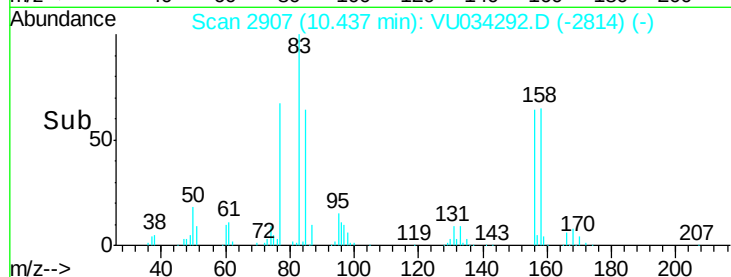
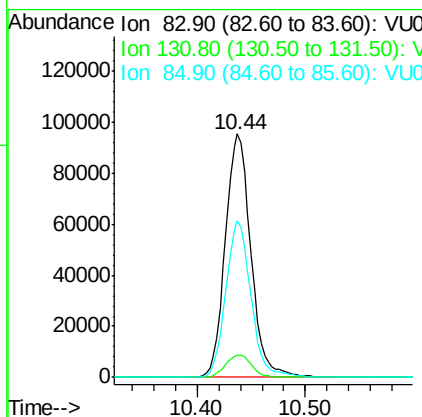
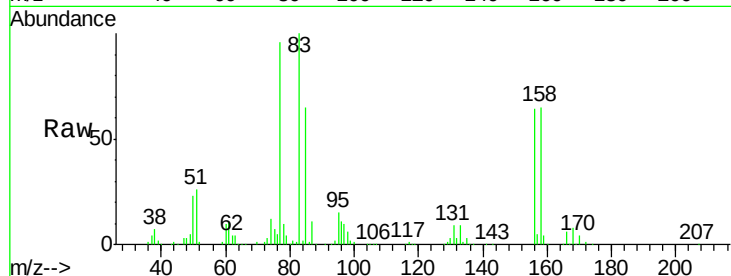
ClientSampleId :

VU0906WBSD02

Tot Ion	83	Resp	157584
Ion Ratio	Lower	Upper	
83	100		
131	9.3	5.1	15.2
85	63.4	32.0	96.2

Manual Integrations
APPROVED

MMDadoda
9/6/2019 3:22:18 PM



#76

1,2,3-Trichloropropane

Concen: 19.104 ug/l m

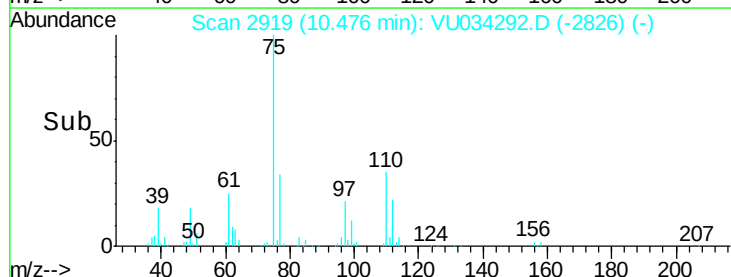
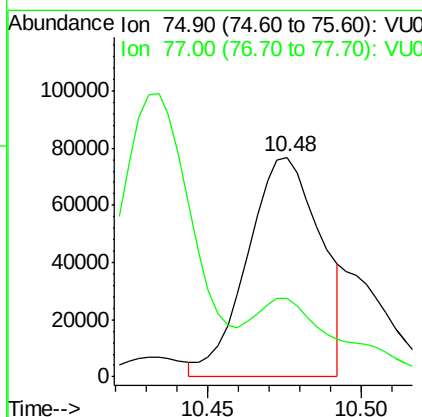
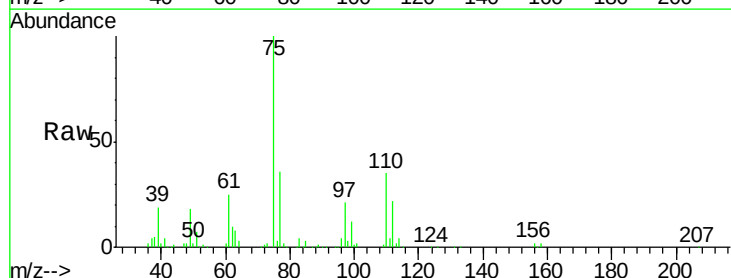
RT: 10.48 min Scan# 2919

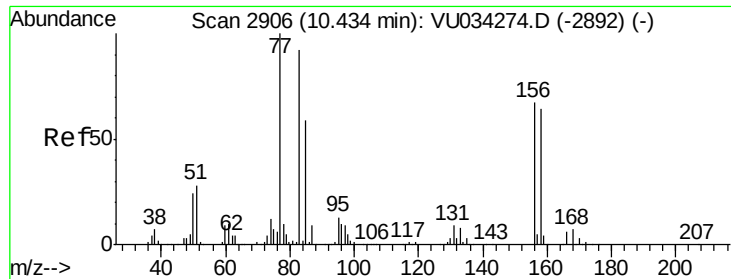
Delta R.T. 0.00 min

Lab File: VU034292.D

Acq: 05 Sep 2019 18:38

Tgt Ion	75	Resp	127199
Ion Ratio	Lower	Upper	
75	100		
77	43.8	20.8	62.2





#77

Bromobenzene

Concen: 19.871 ug/l

RT: 10.43 min Scan# 2906

Delta R.T. 0.00 min

Lab File: VU034292.D

Acq: 05 Sep 2019 18:38

Instrument :

MSVOA_U

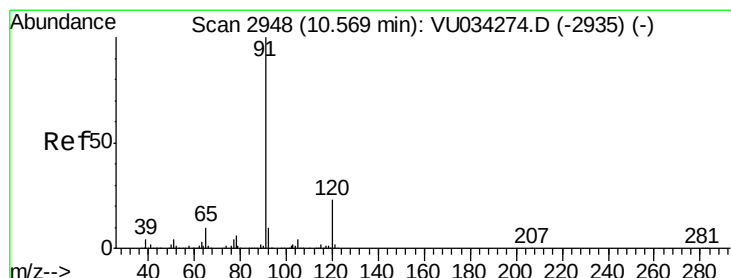
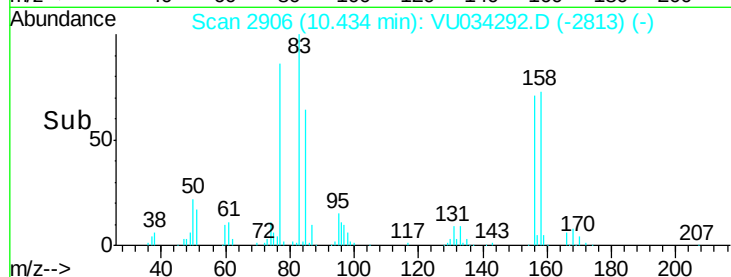
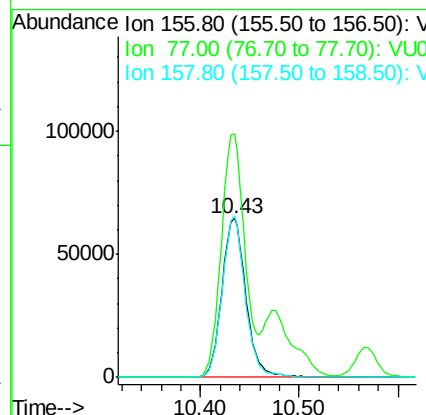
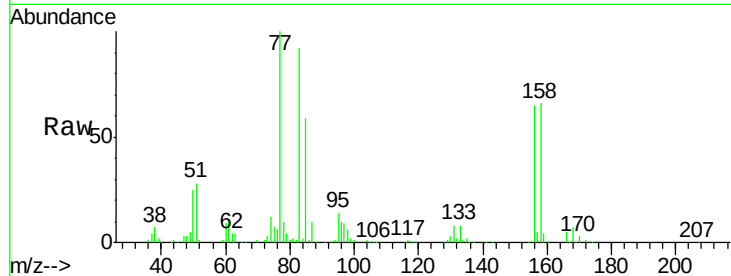
ClientSampleID :

VU0906WBSD02

Tot Ion:	156	Resp:	110292
Ion Ratio	Lower	Upper	
156	100		
77	151.5	75.6	226.9
158	96.9	48.2	144.6

Manual Integrations
APPROVED

MMDadoda
9/6/2019 3:22:18 PM



#78

n-propylbenzene

Concen: 20.444 ug/l

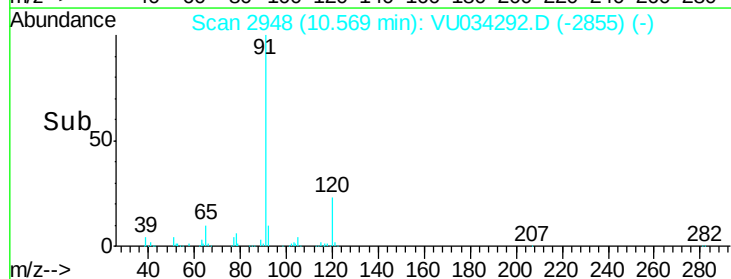
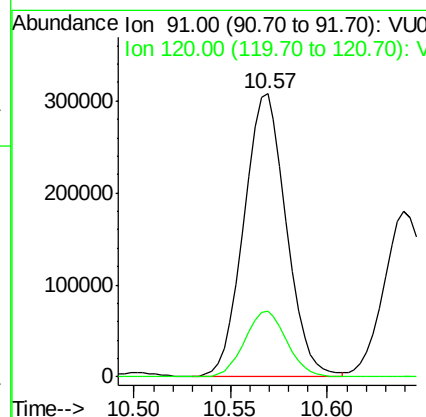
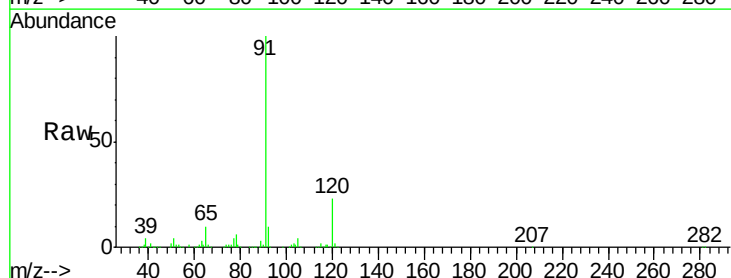
RT: 10.57 min Scan# 2948

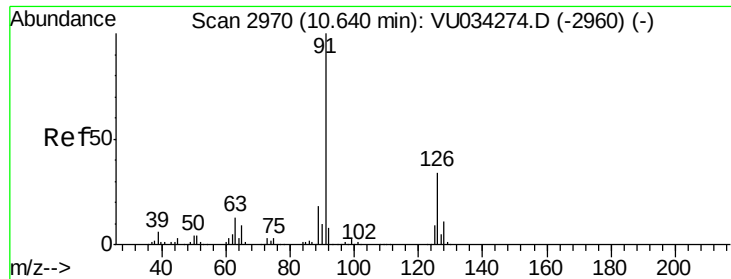
Delta R.T. 0.00 min

Lab File: VU034292.D

Acq: 05 Sep 2019 18:38

Tgt Ion:	91	Resp:	468693
Ion Ratio	Lower	Upper	
91	100		
120	23.4	11.7	35.0





#79

2-Chlorotoluene

Concen: 20.350 ug/l

RT: 10.64 min Scan# 2970

Delta R.T. 0.00 min

Lab File: VU034292.D

Acq: 05 Sep 2019 18:38

Instrument :

MSVOA_U

ClientSampleId :

VU0906WBSD02

Tot Ion: 91 Resp: 284656

Ion Ratio Lower Upper

91 100

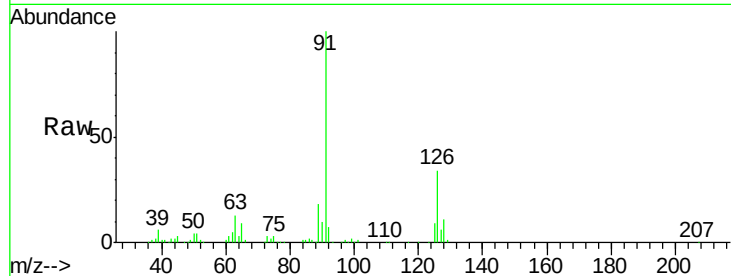
126 34.5 17.3 51.9

Manual Integrations

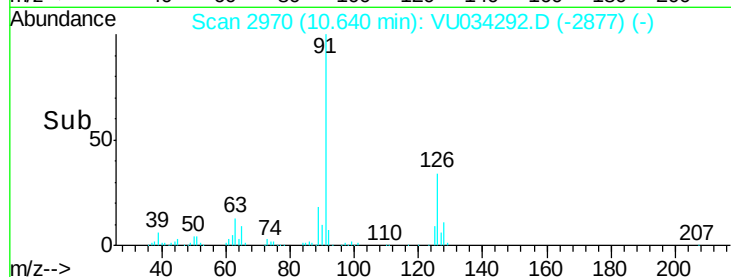
APPROVED

MMDadoda

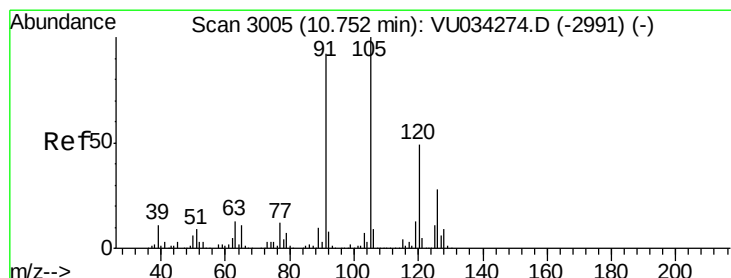
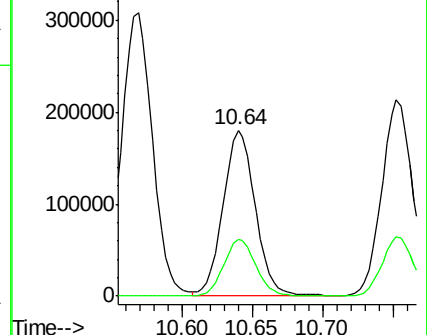
9/6/2019 3:22:18 PM



Abundance Ion 91.00 (90.70 to 91.70): VU034292.D (-2877) (-)



Ion 125.90 (125.60 to 126.60): VU034292.D (-2877) (-)



#80

1,3,5-Trimethylbenzene

Concen: 21.402 ug/l

RT: 10.75 min Scan# 3005

Delta R.T. 0.00 min

Lab File: VU034292.D

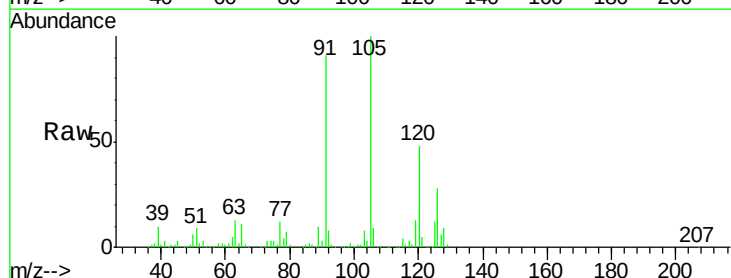
Acq: 05 Sep 2019 18:38

Tgt Ion: 105 Resp: 355310

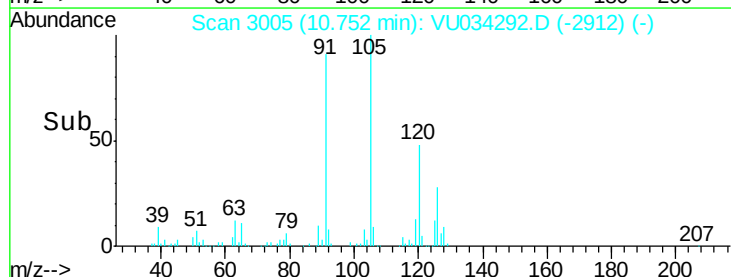
Ion Ratio Lower Upper

105 100

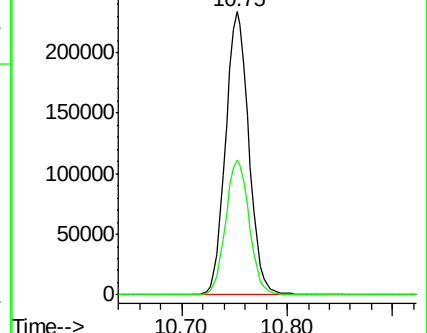
120 48.6 24.9 74.7

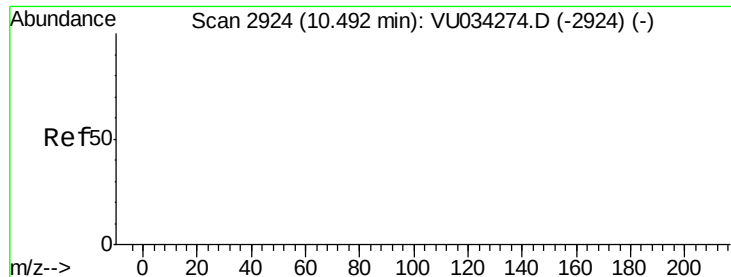


Abundance Ion 105.00 (104.70 to 105.70): VU034292.D (-2912) (-)



Ion 120.00 (119.70 to 120.70): VU034292.D (-2912) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 20.743 ug/l m

RT: 10.49 min Scan# 2924

Delta R.T. 0.00 min

Lab File: VU034292.D

Acq: 05 Sep 2019 18:38

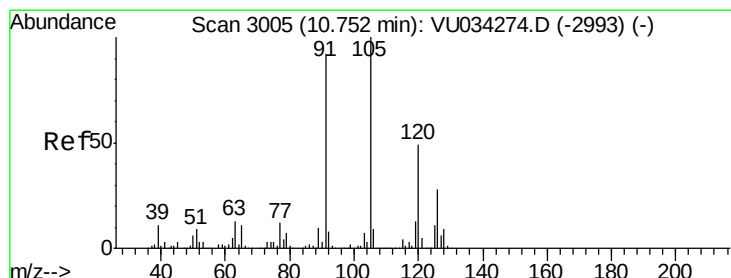
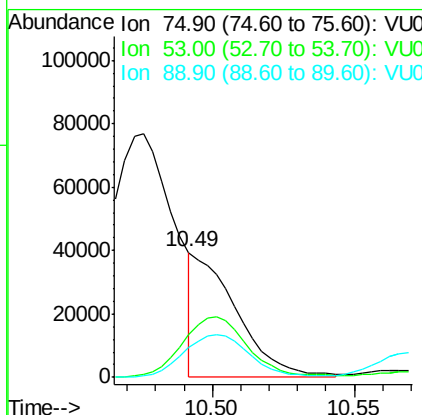
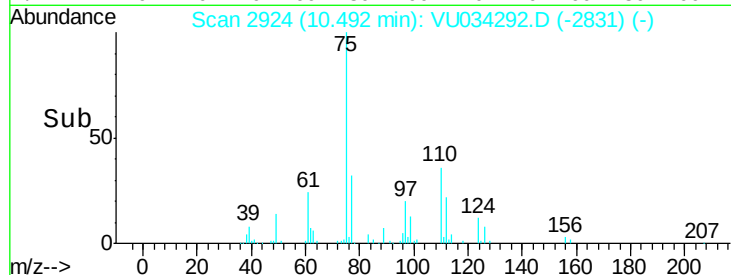
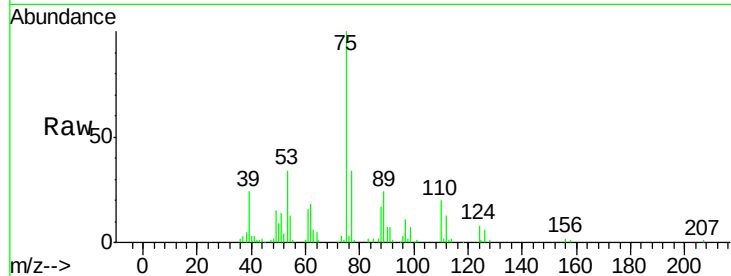
Instrument :
MSVOA_U

ClientSampled :
VU0906WBSD02

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	0.0	0.0
89	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
9/6/2019 3:22:18 PM



#82

4-Chlorotoluene

Concen: 20.479 ug/l

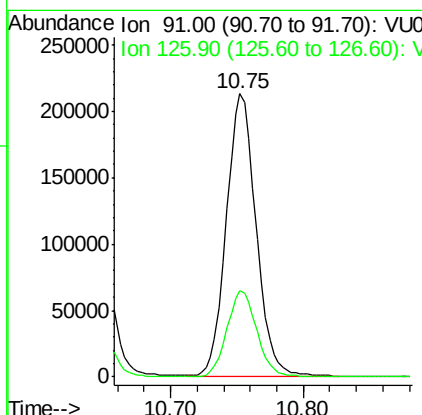
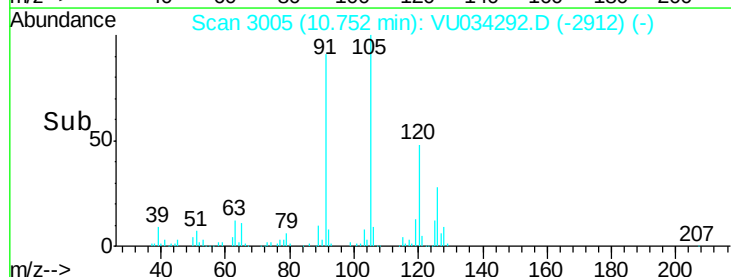
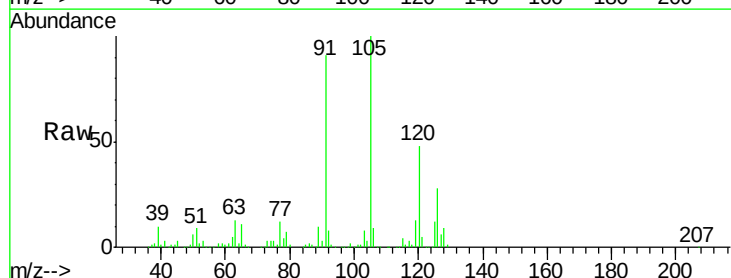
RT: 10.75 min Scan# 3005

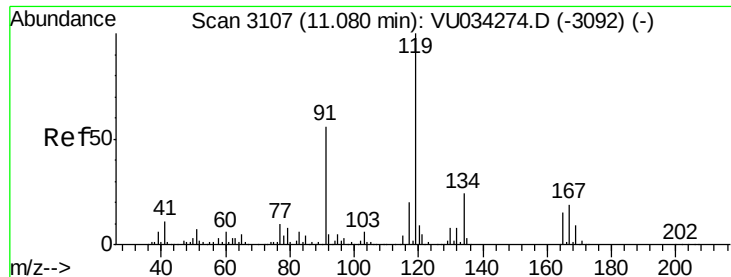
Delta R.T. 0.00 min

Lab File: VU034292.D

Acq: 05 Sep 2019 18:38

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.2	15.3	45.8





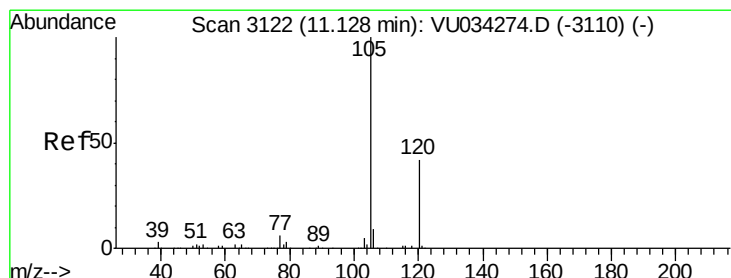
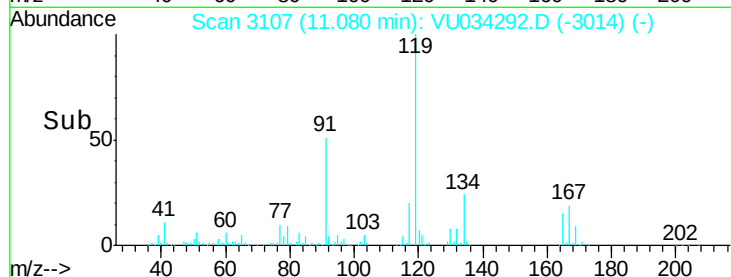
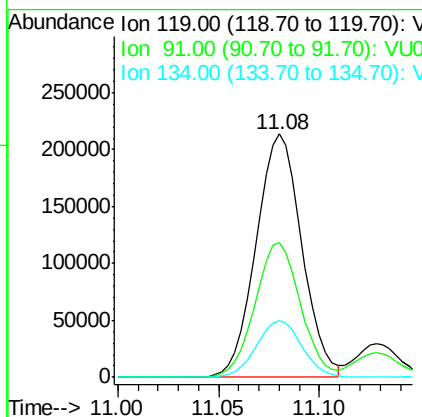
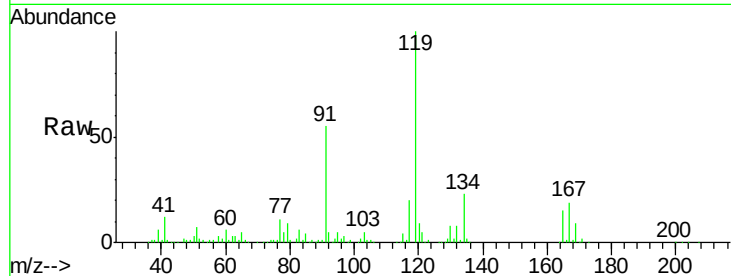
#83
 tert-Butylbenzene
 Concen: 20.328 ug/l
 RT: 11.08 min Scan# 3107
 Delta R.T. 0.00 min
 Lab File: VU034292.D
 Acq: 05 Sep 2019 18:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0906WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
119	100	337602		
91	55.0		27.8	83.4
134	23.3		11.7	35.0

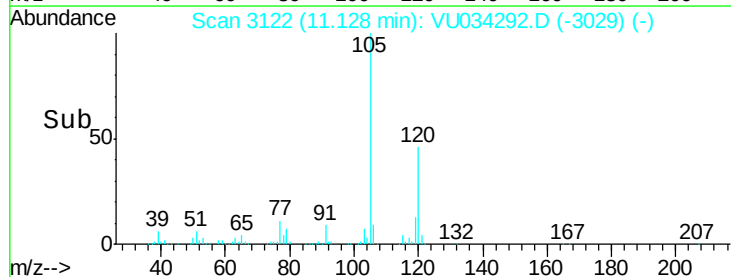
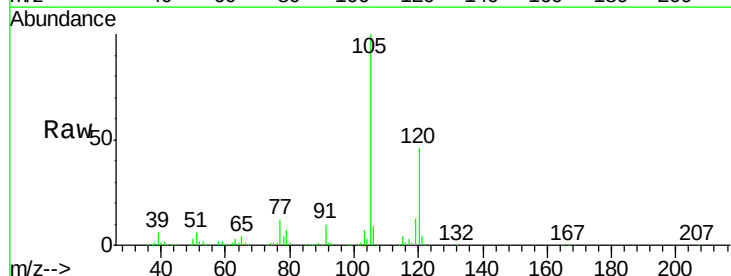
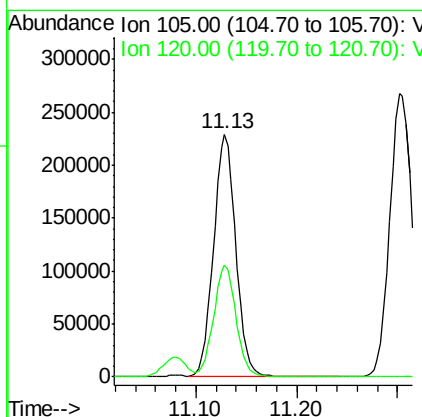
Manual Integrations
 APPROVED

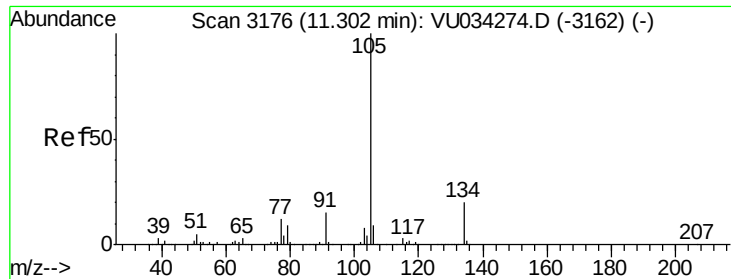
MMDadoda
 9/6/2019 3:22:18 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 20.963 ug/l
 RT: 11.13 min Scan# 3122
 Delta R.T. 0.00 min
 Lab File: VU034292.D
 Acq: 05 Sep 2019 18:38

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	350319		
120	46.6		22.9	68.8





#85

sec-Butylbenzene

Concen: 20.987 ug/l

RT: 11.30 min Scan# 3176

Delta R.T. 0.00 min

Lab File: VU034292.D

Acq: 05 Sep 2019 18:38

Instrument :

MSVOA_U

ClientSampleId :

VU0906WBSD02

Tot Ion:105 Resp: 411486

Ion Ratio Lower Upper

105 100

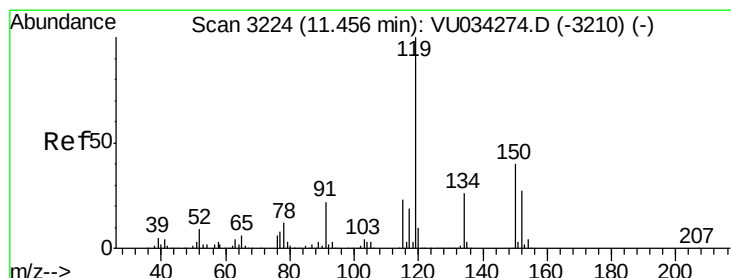
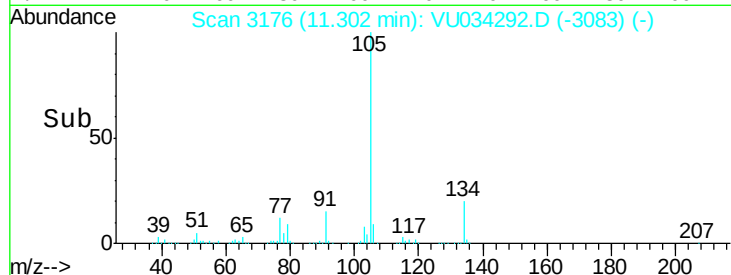
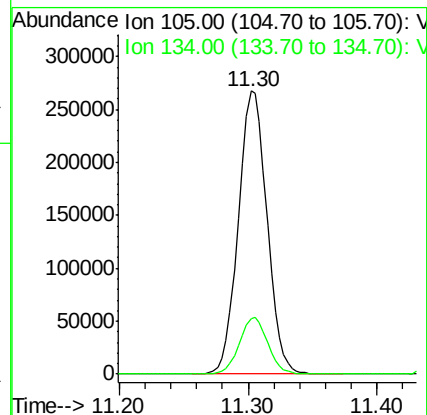
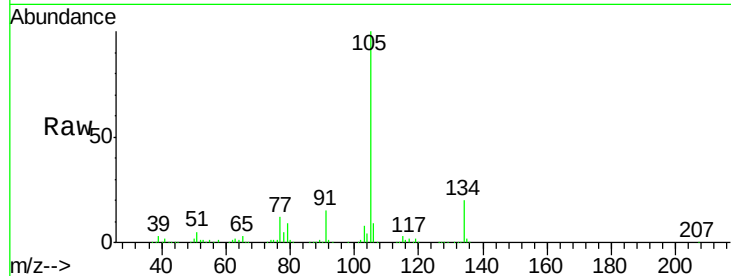
134 19.8 10.1 30.3

Manual Integrations

APPROVED

MMDadoda

9/6/2019 3:22:18 PM



#86

p-Isopropyltoluene

Concen: 20.709 ug/l

RT: 11.46 min Scan# 3224

Delta R.T. 0.00 min

Lab File: VU034292.D

Acq: 05 Sep 2019 18:38

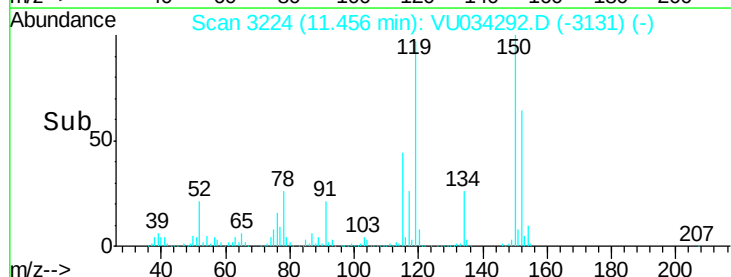
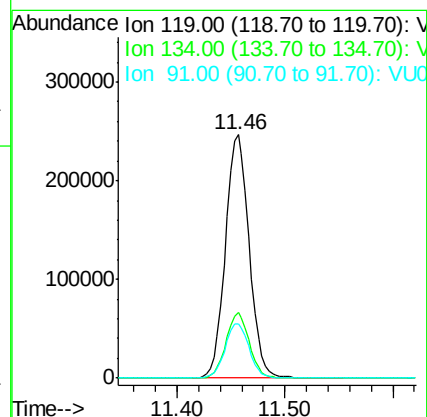
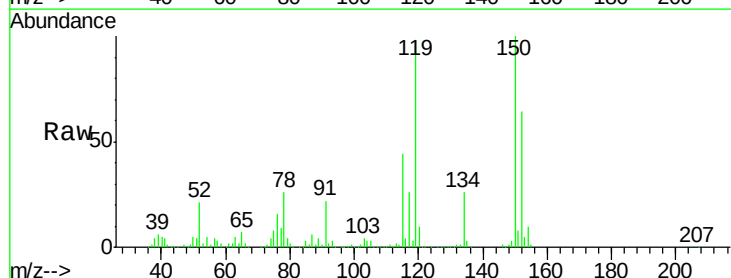
Tgt Ion:119 Resp: 374777

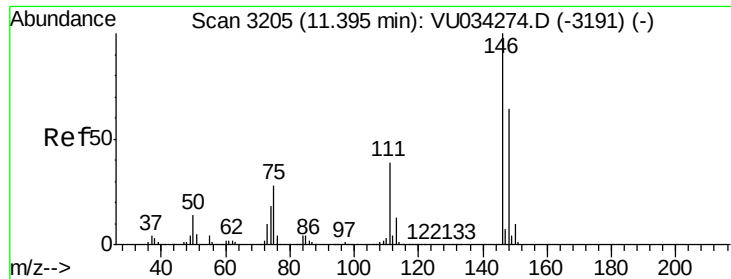
Ion Ratio Lower Upper

119 100

134 26.6 13.3 39.8

91 22.6 11.2 33.6





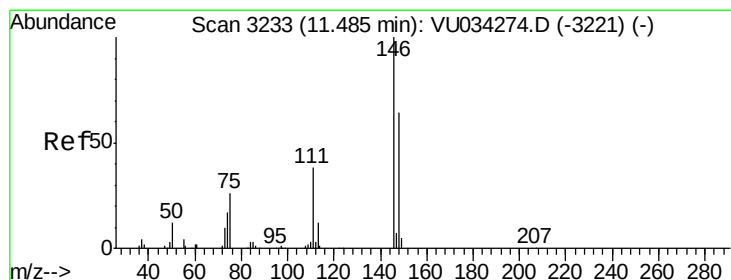
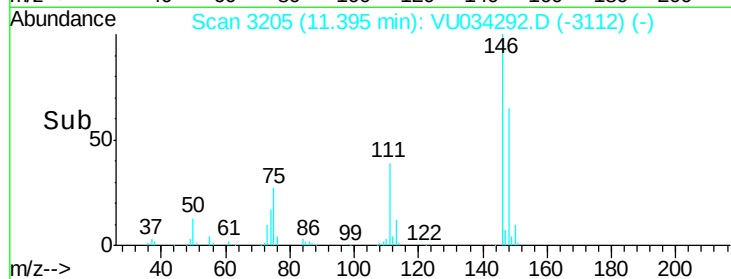
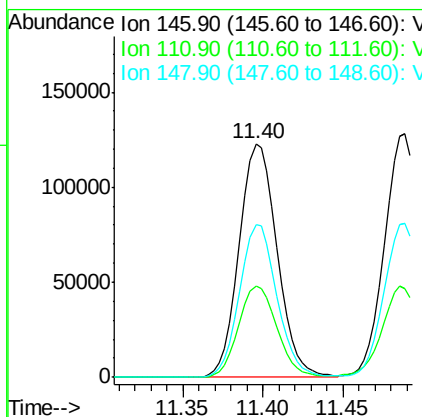
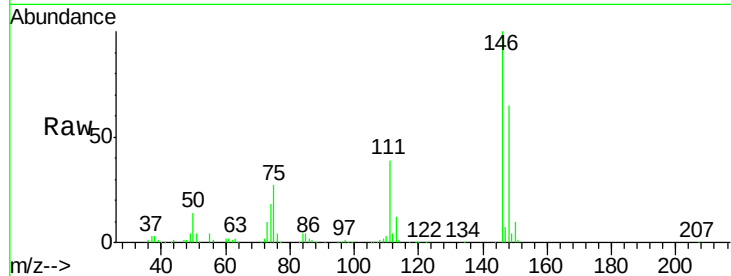
#87
 1,3-Dichlorobenzene
 Concen: 19.620 ug/l
 RT: 11.40 min Scan# 3205
 Delta R.T. 0.00 min
 Lab File: VU034292.D
 Acq: 05 Sep 2019 18:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0906WBSD02

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.4	19.5	58.5
148	64.3	32.1	96.3

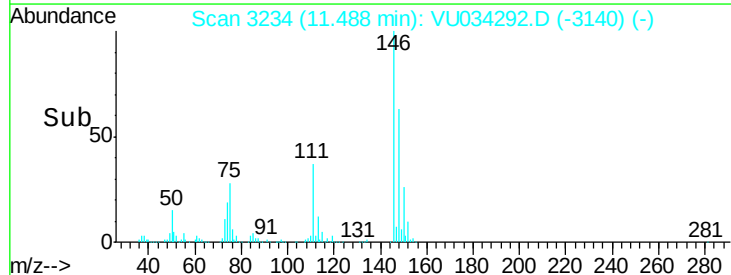
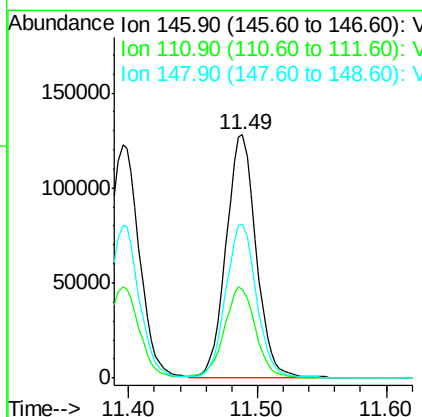
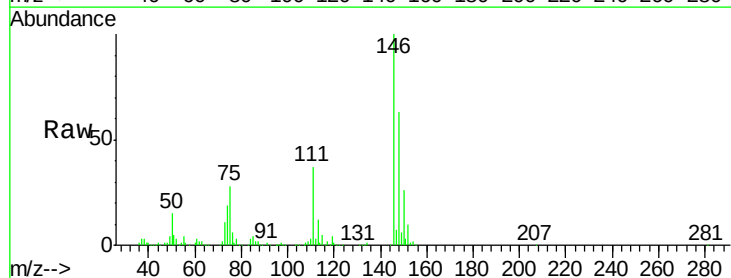
Manual Integrations
 APPROVED

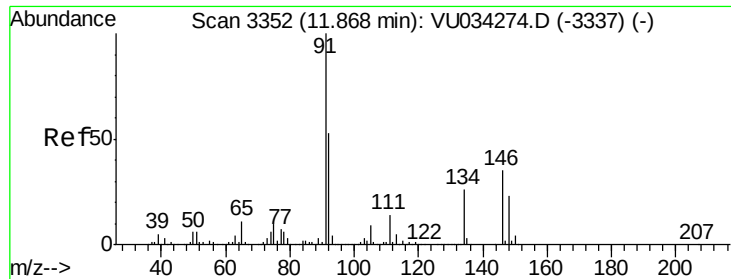
MMDadoda
 9/6/2019 3:22:18 PM



#88
 1,4-Dichlorobenzene
 Concen: 19.472 ug/l
 RT: 11.49 min Scan# 3234
 Delta R.T. 0.00 min
 Lab File: VU034292.D
 Acq: 05 Sep 2019 18:38

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.3	19.1	57.3
148	65.1	32.0	96.0





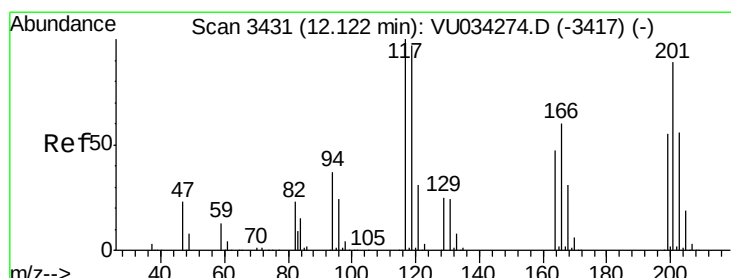
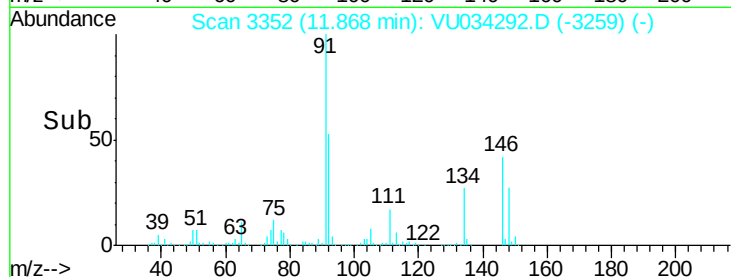
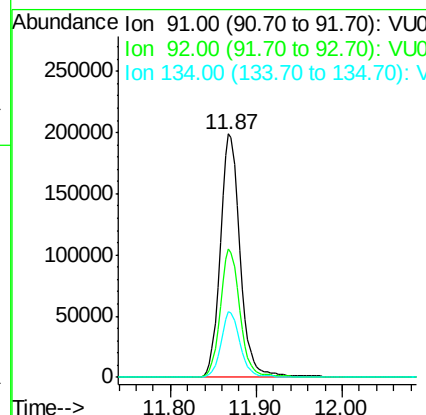
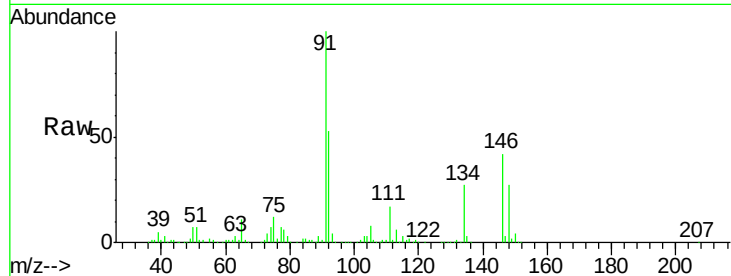
#89
n-Butylbenzene
Concen: 20.414 ug/l
RT: 11.87 min Scan# 3352
Delta R.T. 0.00 min
Lab File: VU034292.D
Acq: 05 Sep 2019 18:38

Instrument :
MSVOA_U
ClientSampleId :
VU0906WBSD02

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.4	26.5	79.4
134	26.1	13.2	39.6

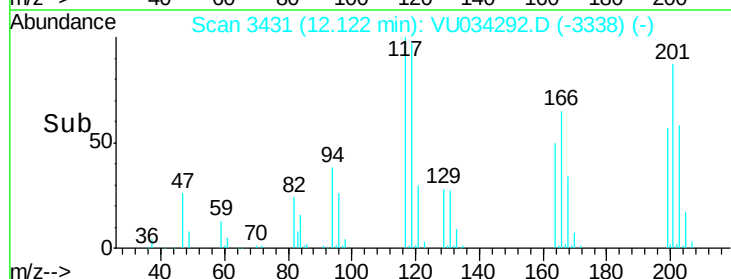
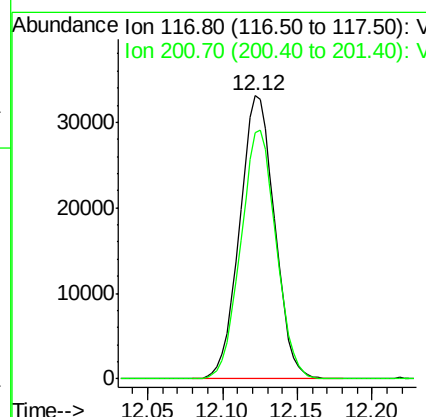
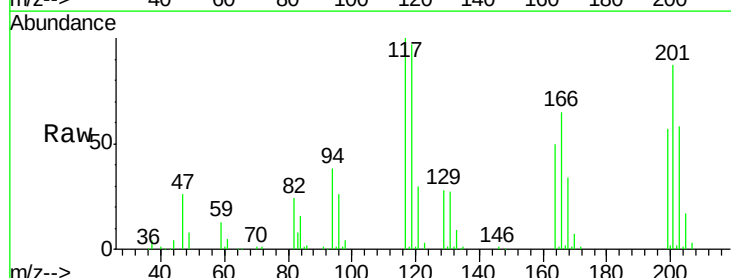
Manual Integrations
APPROVED

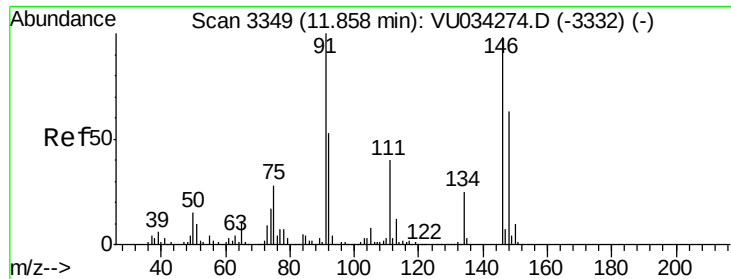
MMDadoda
9/6/2019 3:22:18 PM



#90
Hexachloroethane
Concen: 18.616 ug/l
RT: 12.12 min Scan# 3431
Delta R.T. 0.00 min
Lab File: VU034292.D
Acq: 05 Sep 2019 18:38

Tgt Ion	Ratio	Lower	Upper
117	100		
201	88.4	44.1	132.4





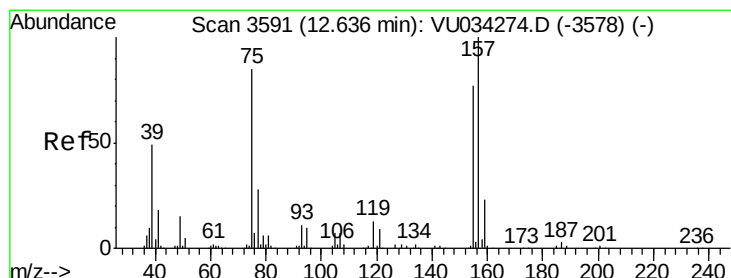
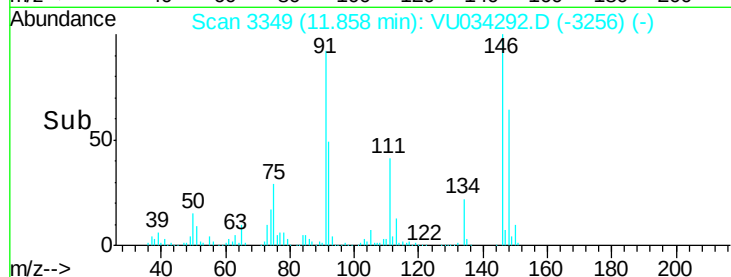
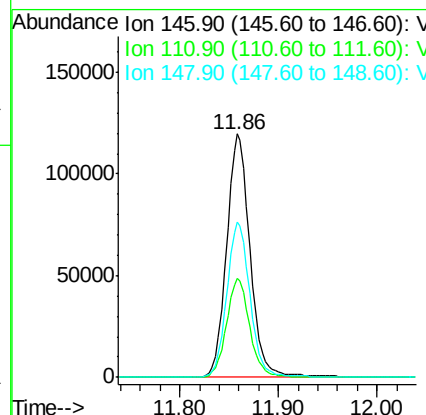
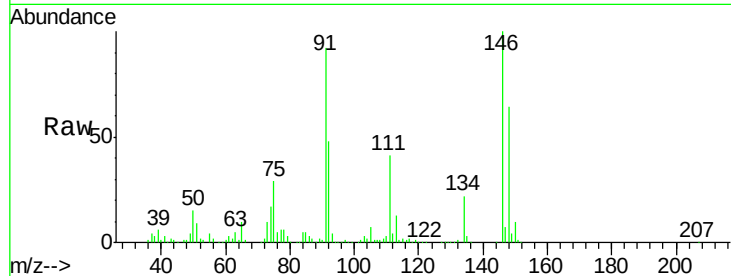
#91
 1,2-Dichlorobenzene
 Concen: 20.075 ug/l
 RT: 11.86 min Scan# 3349
 Delta R.T. 0.00 min
 Lab File: VU034292.D
 Acq: 05 Sep 2019 18:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0906WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
146	100	199825		
111	40.2	20.0	60.0	
148	63.2	31.6	94.8	

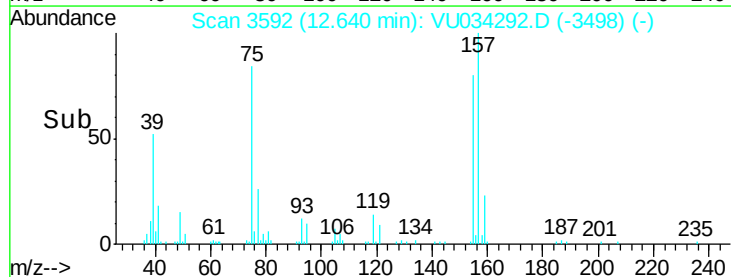
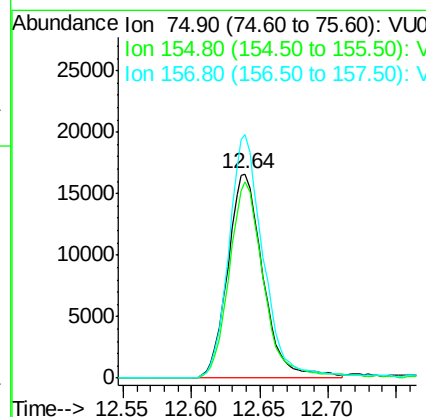
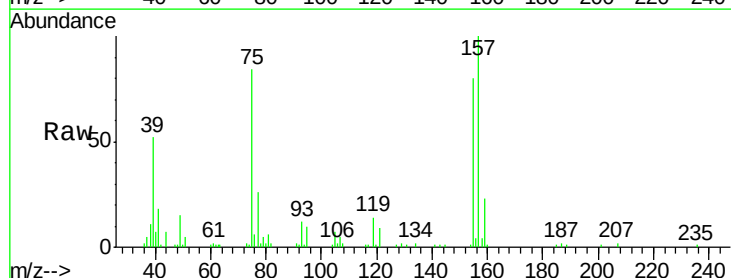
Manual Integrations
 APPROVED

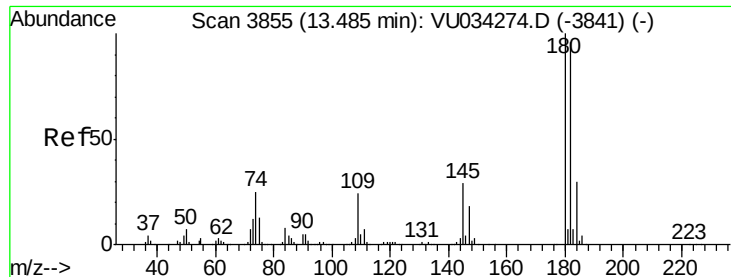
MMDadoda
 9/6/2019 3:22:18 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.298 ug/l
 RT: 12.64 min Scan# 3592
 Delta R.T. 0.00 min
 Lab File: VU034292.D
 Acq: 05 Sep 2019 18:38

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	29970		
155	92.0	44.6	134.0	
157	116.3	58.2	174.6	





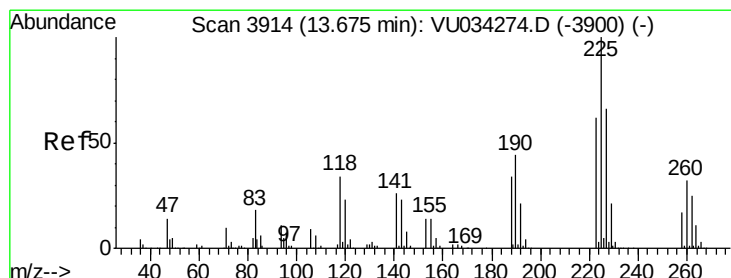
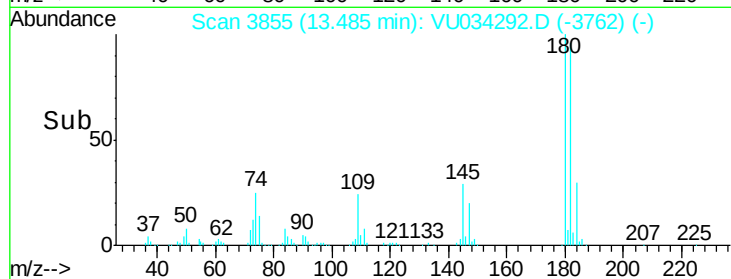
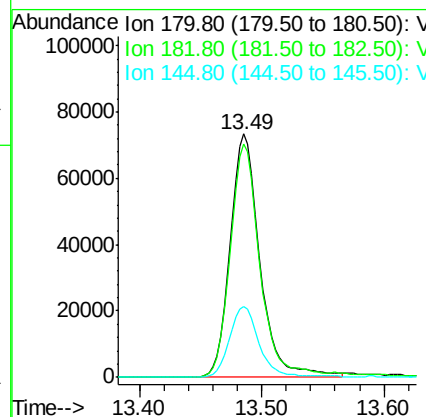
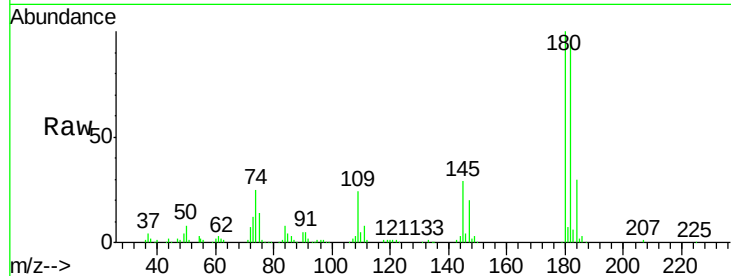
#93
 1,2,4-Trichlorobenzene
 Concen: 19.654 ug/l
 RT: 13.49 min Scan# 3855
 Delta R.T. 0.00 min
 Lab File: VU034292.D
 Acq: 05 Sep 2019 18:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0906WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
180	100	125645		
182	95.4	47.9	143.8	
145	29.4	14.4	43.0	

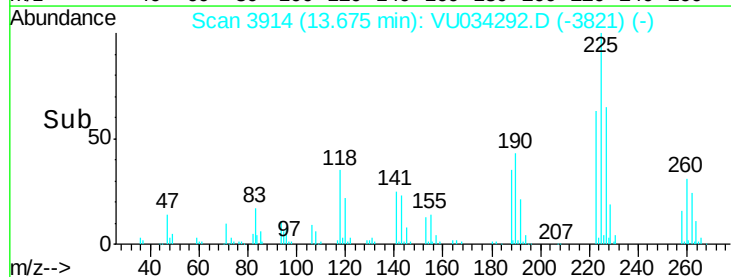
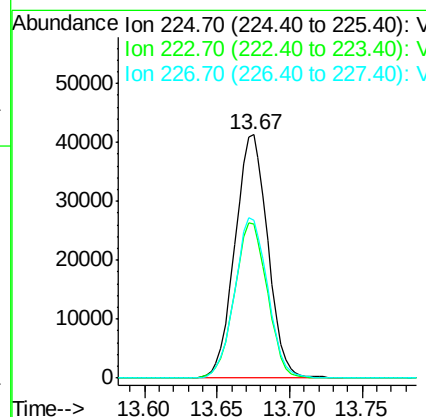
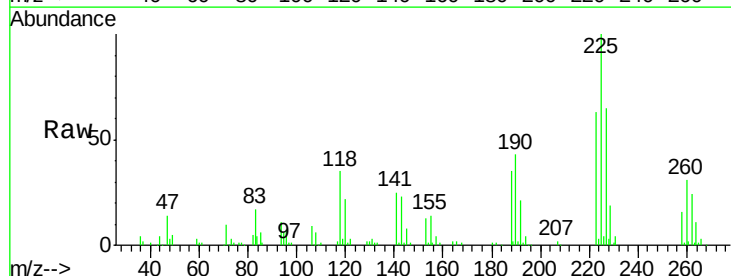
Manual Integrations
 APPROVED

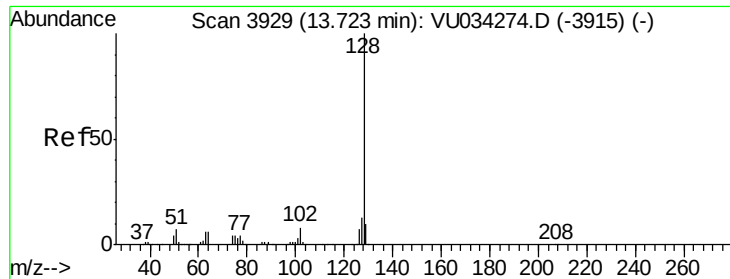
MMDadoda
 9/6/2019 3:22:18 PM



#94
 Hexachlorobutadiene
 Concen: 18.619 ug/l
 RT: 13.67 min Scan# 3914
 Delta R.T. 0.00 min
 Lab File: VU034292.D
 Acq: 05 Sep 2019 18:38

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	64830		
223	63.6	31.6	94.7	
227	66.2	32.3	96.8	





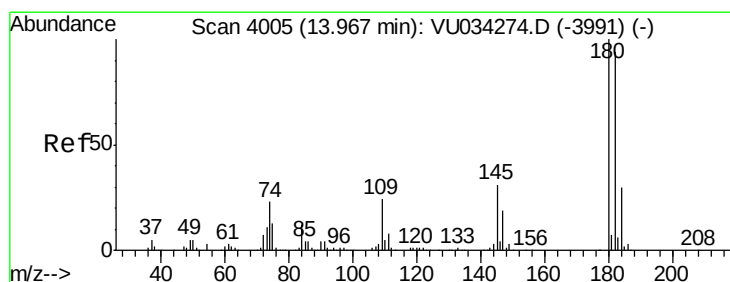
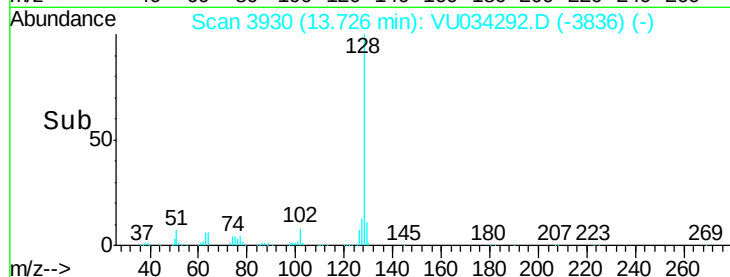
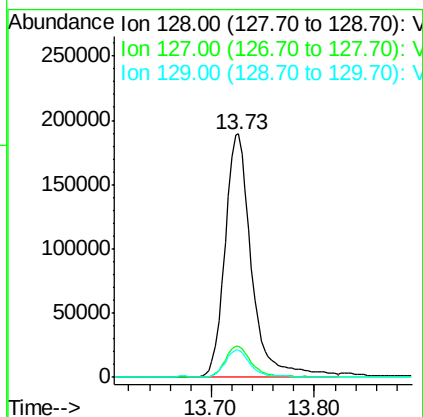
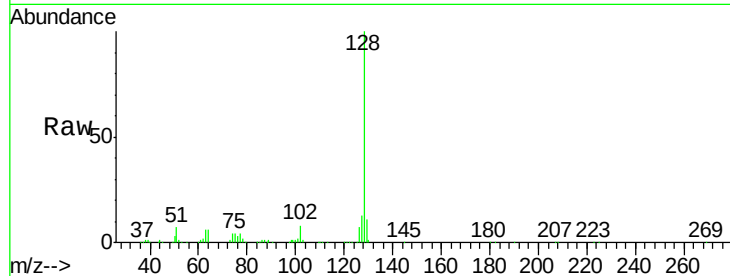
#95
Naphthalene
Concen: 19.467 ug/l
RT: 13.73 min Scan# 3930
Delta R.T. 0.00 min
Lab File: VU034292.D
Acq: 05 Sep 2019 18:38

Instrument :
MSVOA_U
ClientSampleId :
VU0906WBSD02

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.6	15.8
129	10.6	8.4	12.6

Manual Integrations
APPROVED

MMDadoda
9/6/2019 3:22:18 PM



#96
1,2,3-Trichlorobenzene
Concen: 20.290 ug/l
RT: 13.97 min Scan# 4006
Delta R.T. 0.00 min
Lab File: VU034292.D
Acq: 05 Sep 2019 18:38

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.1	48.4	145.0
145	29.8	15.4	46.4

