

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071119\
 Data File : VU033207.D
 Acq On : 12 Jul 2019 00:08
 Operator : JC/SP
 Sample : VSTDCCC010
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

Manual Integrations
 APPROVED

Quant Time: Jul 12 06:53:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U071119DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Fri Jul 12 05:19:33 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	5.72	96	32939	1.00	ug/l	0.00

System Monitoring Compounds

57) 4-Bromofluorobenzene	10.29	95	13264	1.07	ug/l	0.00
Spiked Amount 1.000			Recovery	=	107.00%	
68) 1,2-Dichlorobenzene-d4	11.85	152	14001	1.04	ug/l	0.00
Spiked Amount 1.000			Recovery	=	104.00%	

MMDadoda

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.20	85	126911	9.860	ug/l	100
3) Chloromethane	1.32	50	136350	9.070	ug/l	99
4) Vinyl Chloride	1.40	62	151971	9.807	ug/l	99
5) Bromomethane	1.62	94	90784	9.389	ug/l	97
6) Chloroethane	1.69	64	93122	9.797	ug/l	96
7) Trichlorofluoromethane	1.87	101	207321	9.887	ug/l	100
8) 1,1,2-Trichloro-1,2,2-trif	2.27	101	103959	9.660	ug/l	100
9) 1,1-Dichloroethene	2.27	96	104413	9.609	ug/l	98
10) Iodomethane	2.40	142	126732	11.050	ug/l	97
11) Allyl Chloride	2.58	41	171369	9.439	ug/l	100
12) Acrylonitrile	2.92	53	59617	19.809	ug/l	99
13) Acetone	2.31	43	119069	44.129	ug/l	98
14) Carbon Disulfide	2.46	76	387990	9.781	ug/l	98
15) Methylene Chloride	2.68	84	130304	8.971	ug/l	98
16) trans-1,2-Dichloroethene	2.96	96	121636	9.774	ug/l	95
17) 1,1-Dichloroethane	3.42	63	179433	9.931	ug/l	100
18) 2-Butanone	4.25	43	139200	51.641	ug/l	100
19) Cyclohexane	4.97	56	145992m	10.571	ug/l	
20) Methylcyclohexane	6.39	83	157391	10.871	ug/l	100
21) 2,2-Dichloropropane	4.20	77	124095	8.175	ug/l	98
22) cis-1,2-Dichloroethene	4.20	96	103668	10.030	ug/l	99
23) Diethyl Ether	2.09	59	90588	9.563	ug/l	97
24) tert-Butyl Alcohol	2.82	59	113880	98.623	ug/l	99
25) Methyl tert-Butyl Ether	2.98	73	313930	9.911	ug/l	99
26) Bromochloromethane	4.52	128	45471	9.931	ug/l	99
27) Chloroform	4.65	83	186552	9.351	ug/l	100
28) 1,1,1-Trichloroethane	4.89	97	159660	10.109	ug/l	99
29) 1,1-Dichloropropene	5.11	75	139355	10.462	ug/l	100
30) Carbon Tetrachloride	5.11	117	140134	10.048	ug/l	97
31) Isopropyl Ether	3.55	45	248730	10.255	ug/l	99
32) Ethyl-t-butyl ether	4.05	59	251578	10.635	ug/l	97
33) Tert-Amyl methyl ether	5.56	73	236243	10.839	ug/l	99
34) Propionitrile	4.31	54	40622	53.189	ug/l #	95
35) Benzene	5.36	78	396444	10.209	ug/l	99
36) 1,2-Dichloroethane	5.38	62	128686	10.237	ug/l	100
37) Trichloroethene	6.16	130	103173	10.164	ug/l	96
38) 1,2-Dichloropropane	6.41	63	106370	10.126	ug/l	100
39) Methacrylonitrile	4.52	41	33458	10.566	ug/l	98
40) Methyl acrylate	4.40	55	52295	11.153	ug/l	98
41) Tetrahydrofuran	4.62	42	33539	20.191	ug/l	100
42) 1-Chlorobutane	5.04	56	189054	10.451	ug/l	99

7/16/2019 4:02:40 PM

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071119\
 Data File : VU033207.D
 Acq On : 12 Jul 2019 00:08
 Operator : JC/SP
 Sample : VSTDCCC010
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 20 Sample Multiplier: 1

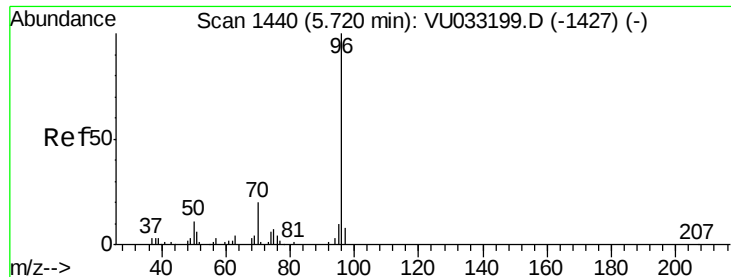
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

Manual Integrations
 APPROVED

Quant Time: Jul 12 06:53:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U071119DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Fri Jul 12 05:19:33 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Dibromomethane	6.54	93	57399	10.219	ug/l	98
44) Bromodichloromethane	6.74	83	138361	9.996	ug/l	97
45) 4-Methyl-2-Pentanone	7.45	43	350496	55.413	ug/l	99
46) t-1,4-Dichloro-2-butene	10.50	75	59646m	22.148	ug/l	
47) Methyl methacrylate	6.61	69	104694	23.040	ug/l	100
48) Ethyl methacrylate	8.00	69	96531	11.303	ug/l	99
49) Toluene	7.62	92	248726	10.858	ug/l	100
50) t-1,3-Dichloropropene	7.86	75	127468	10.380	ug/l	99
51) cis-1,3-Dichloropropene	7.25	75	147314	10.384	ug/l	99
52) 1,1,2-Trichloroethane	8.05	97	79026	10.135	ug/l	98
53) 1,3-Dichloropropane	8.22	76	136646	10.339	ug/l	100
54) 2-Hexanone	8.35	43	247613	56.012	ug/l	99
55) Dibromochloromethane	8.46	129	94688	10.493	ug/l	98
56) 1,2-Dibromoethane	8.57	107	75936	10.527	ug/l	100
58) Tetrachloroethene	8.21	164	95665	10.313	ug/l	98
59) Chlorobenzene	9.10	112	272335	10.579	ug/l	97
60) 1,1,1,2-Tetrachloroethane	9.19	131	99033	10.439	ug/l	99
61) Pentachloroethane	11.09	117	77304	10.367	ug/l	99
62) Hexachloroethane	12.13	117	77513	10.706	ug/l	100
63) Ethyl Benzene	9.23	91	480488	11.415	ug/l	99
64) m/p-Xylenes	9.36	106	377627	22.959	ug/l	99
65) o-Xylene	9.76	106	179718	11.240	ug/l	98
66) Styrene	9.77	104	315284	11.682	ug/l	100
67) Bromoform	9.94	173	54556	10.633	ug/l	99
69) Isopropylbenzene	10.15	105	472946	11.378	ug/l	99
70) 1,1,2,2-Tetrachloroethane	10.44	83	110869	10.445	ug/l	100
71) 1,2,3-Trichloropropane	10.48	75	81767m	10.279	ug/l	
72) Bromobenzene	10.43	156	116802	10.833	ug/l	98
73) n-propylbenzene	10.57	120	137454	11.674	ug/l	100
74) 2-Chlorotoluene	10.64	126	118729	11.173	ug/l	99
75) 1,3,5-Trimethylbenzene	10.76	105	427139	11.871	ug/l	99
76) 4-Chlorotoluene	10.76	126	120916	11.145	ug/l	94
77) tert-Butylbenzene	11.08	119	396454	11.443	ug/l	100
78) 1,2,4-Trimethylbenzene	11.13	105	435409	11.842	ug/l	100
79) sec-Butylbenzene	11.31	105	545807	11.479	ug/l	99
80) Nitrobenzene	12.85	77	18377	44.547	ug/l #	97
81) p-Isopropyltoluene	11.46	119	452211	11.695	ug/l	100
82) 1,3-Dichlorobenzene	11.40	146	239737	10.775	ug/l	99
83) 1,4-Dichlorobenzene	11.49	146	243116	10.853	ug/l	100
84) n-Butylbenzene	11.87	91	438503	11.379	ug/l	99
85) 1,2-Dichlorobenzene	11.86	146	227539	10.692	ug/l	99
86) 1,2-Dibromo-3-Chloropropan	12.64	75	18179	10.812	ug/l	97
87) 1,2,4-Trichlorobenzene	13.49	180	147819	11.281	ug/l	100
88) Hexachlorobutadiene	13.68	225	78436	10.362	ug/l	99
89) Naphthalene	13.73	128	287030	9.731	ug/l	99
90) 1,2,3-Trichlorobenzene	13.97	180	141693	11.321	ug/l	98

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



#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.72 min Scan# 1440

Delta R.T. -0.00 min

Lab File: VU033207.D

Acq: 12 Jul 2019 00:08

Instrument :

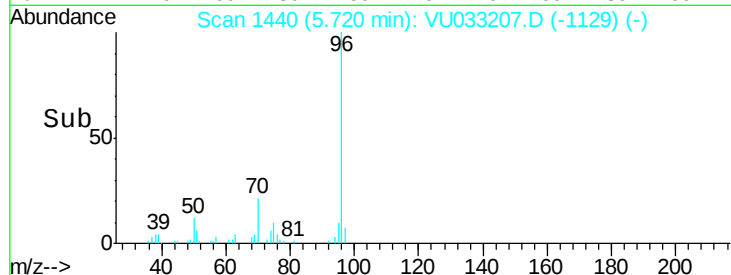
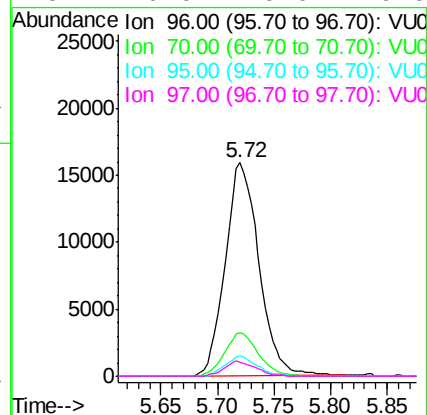
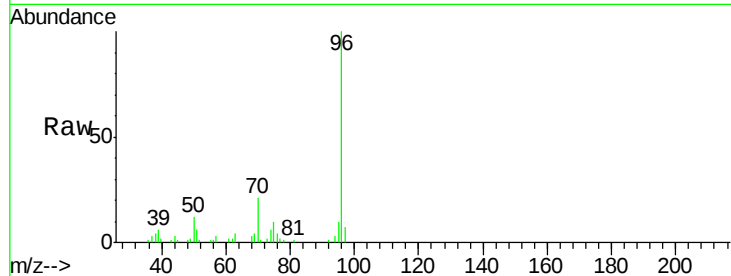
MSVOA_U

ClientSampleId :

VSTDCCC010EC

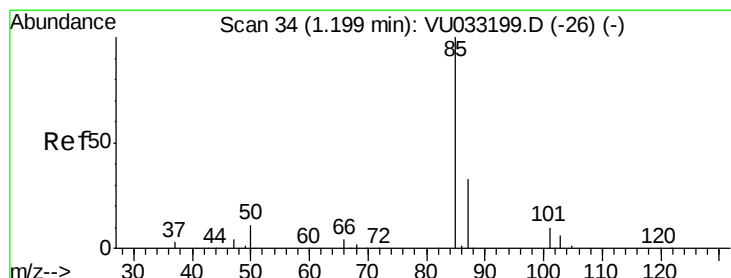
Tot Ion:	96	Resp:	32939
Ion	Ratio	Lower	Upper
96	100		
70	20.4	16.2	24.4
95	8.9	7.8	11.8
97	0.0	0.0	0.0

Manual Integrations
APPROVED



MMDadoda

7/16/2019 4:02:40 PM



#2

Dichlorodifluoromethane

Concen: 9.860 ug/l

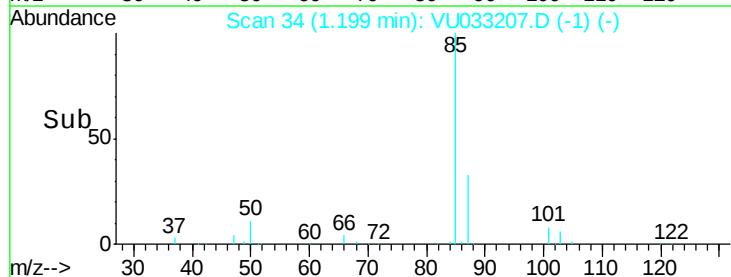
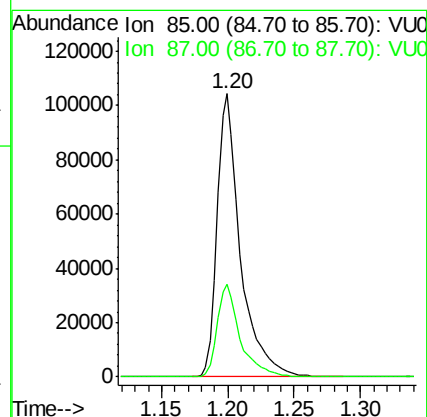
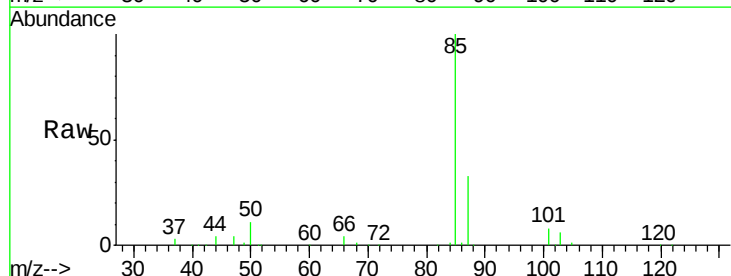
RT: 1.20 min Scan# 34

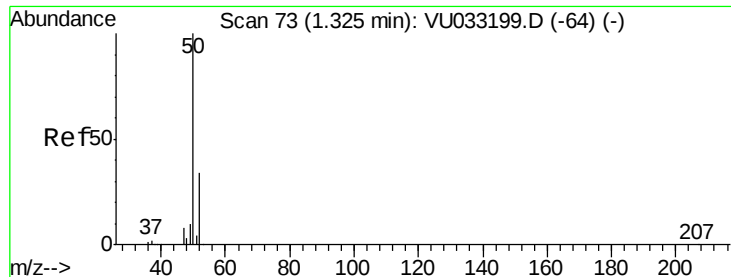
Delta R.T. -0.00 min

Lab File: VU033207.D

Acq: 12 Jul 2019 00:08

Tgt Ion:	85	Resp:	126911
Ion	Ratio	Lower	Upper
85	100		
87	32.8	16.4	49.1





#3

Chloromethane

Concen: 9.070 ug/l

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU033207.D

Acq: 12 Jul 2019 00:08

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

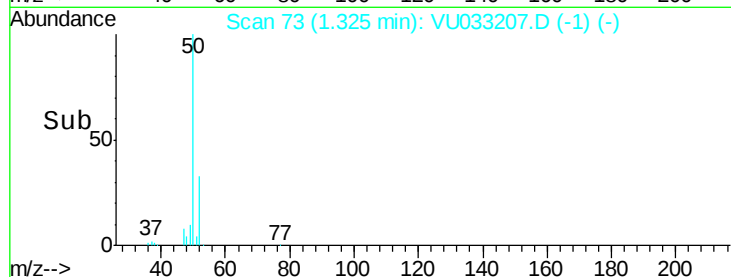
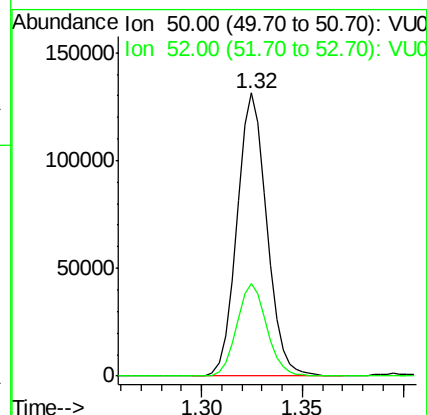
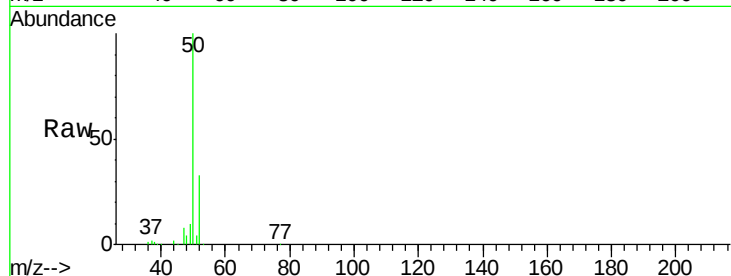
Tot Ion: 50 Resp: 136350

Ion Ratio Lower Upper

50 100

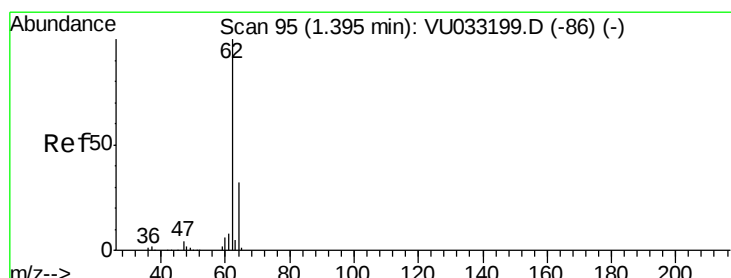
52 32.9 27.0 40.4

Manual Integrations
APPROVED



MMDadoda

7/16/2019 4:02:40 PM



#4

Vinyl Chloride

Concen: 9.807 ug/l

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU033207.D

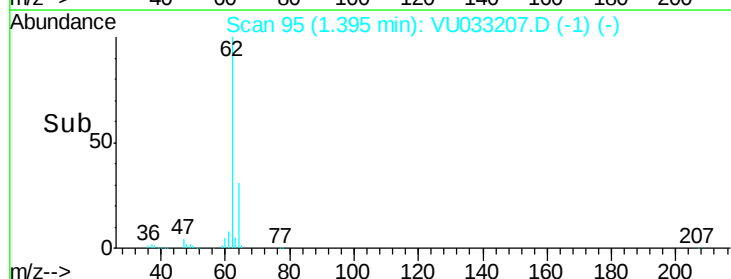
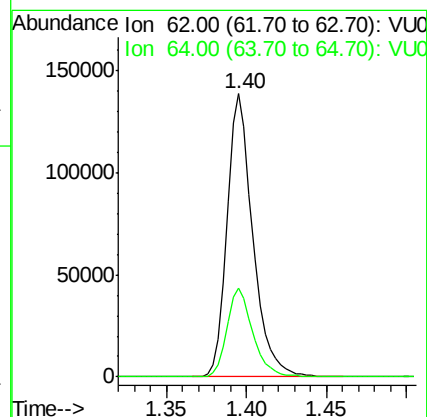
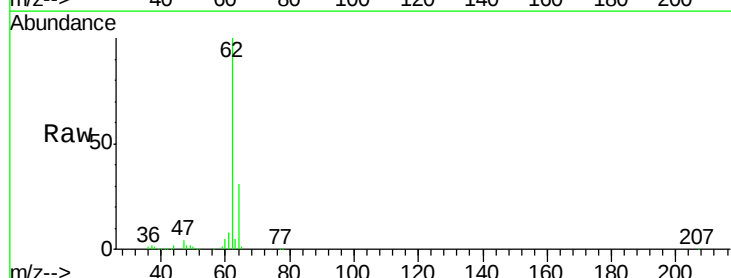
Acq: 12 Jul 2019 00:08

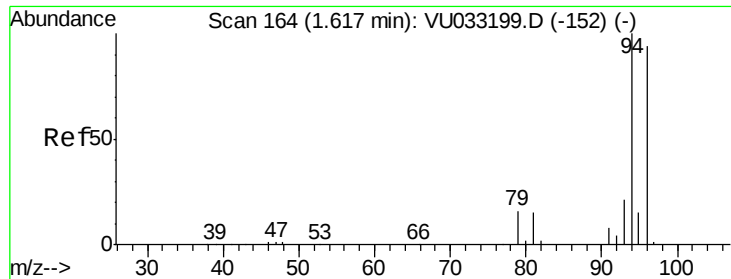
Tgt Ion: 62 Resp: 151971

Ion Ratio Lower Upper

62 100

64 31.4 25.7 38.5





#5

Bromomethane

Concen: 9.389 ug/l

RT: 1.62 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU033207.D

Acq: 12 Jul 2019 00:08

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

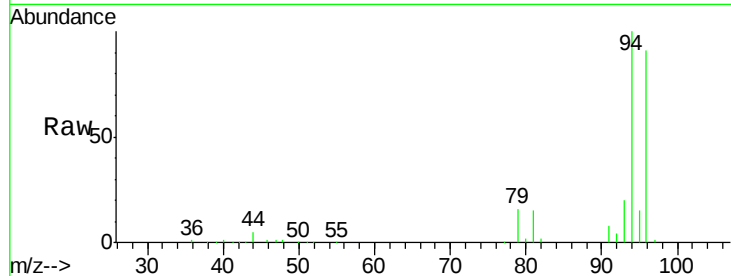
Tot Ion: 94 Resp: 90784

Ion Ratio Lower Upper

94 100

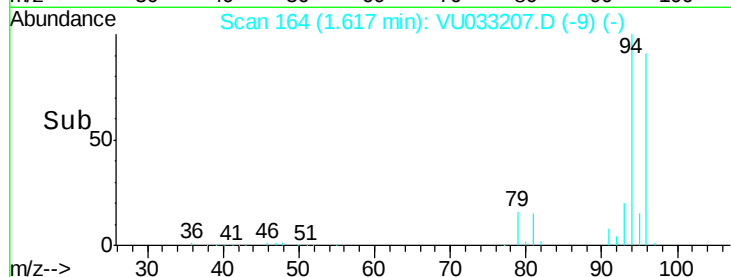
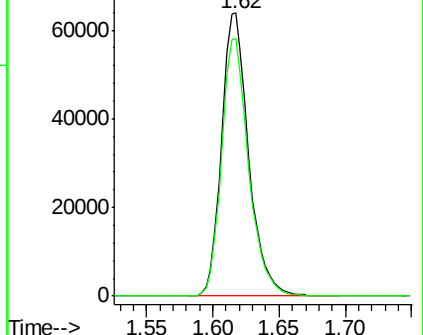
96 91.0 74.8 112.2

Manual Integrations
APPROVED



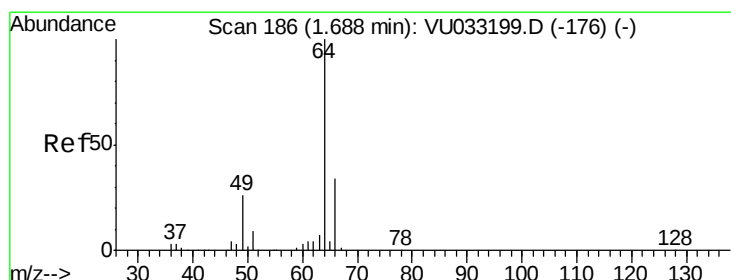
Abundance Ion 94.00 (93.70 to 94.70): VU033207.D (-9) (-)

Ion 96.00 (95.70 to 96.70): VU033207.D (-9) (-)



MMDadoda

7/16/2019 4:02:40 PM



#6

Chloroethane

Concen: 9.797 ug/l

RT: 1.69 min Scan# 186

Delta R.T. -0.00 min

Lab File: VU033207.D

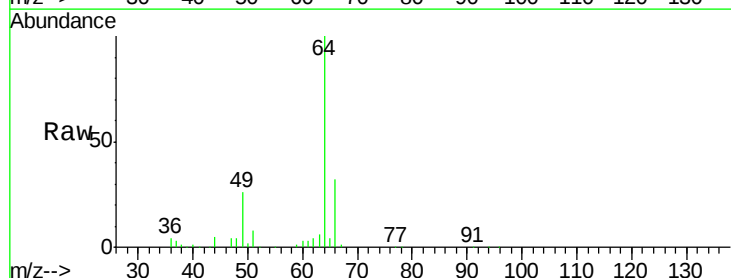
Acq: 12 Jul 2019 00:08

Tgt Ion: 64 Resp: 93122

Ion Ratio Lower Upper

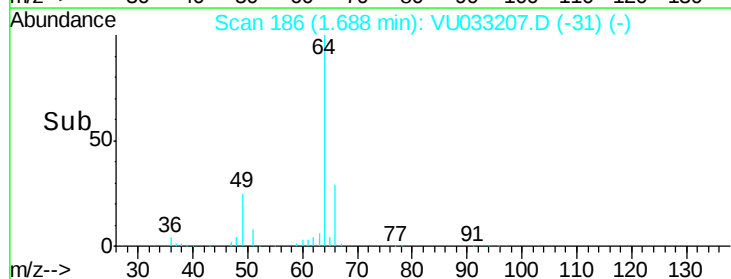
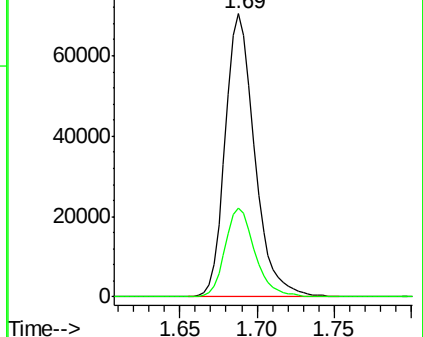
64 100

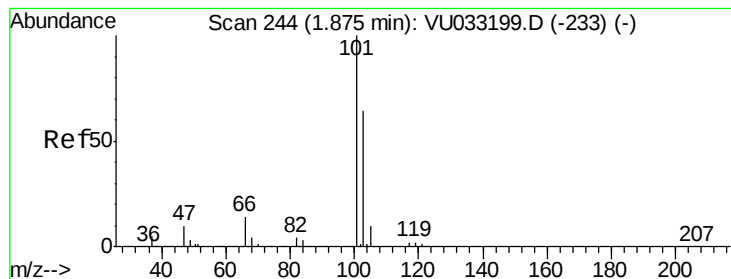
66 31.6 27.0 40.4



Abundance Ion 64.00 (63.70 to 64.70): VU033207.D (-31) (-)

Ion 66.00 (65.70 to 66.70): VU033207.D (-31) (-)





#7

Trichlorofluoromethane

Concen: 9.887 ug/l

RT: 1.87 min Scan# 244

Delta R.T. -0.00 min

Lab File: VU033207.D

Acq: 12 Jul 2019 00:08

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tot Ion:101 Resp: 207321

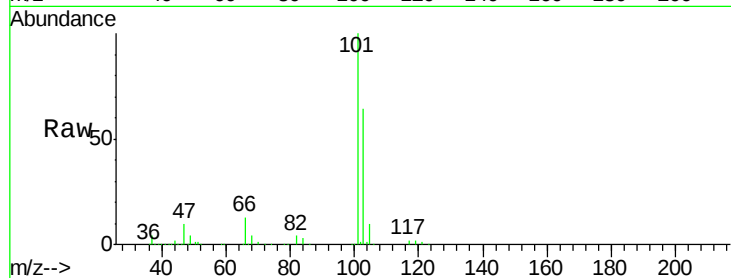
Ion Ratio Lower Upper

101 100

103 63.5 51.0 76.6

Manual Integrations

APPROVED



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

150000

100000

50000

0

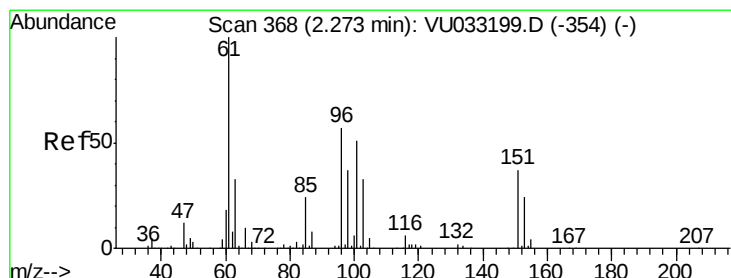
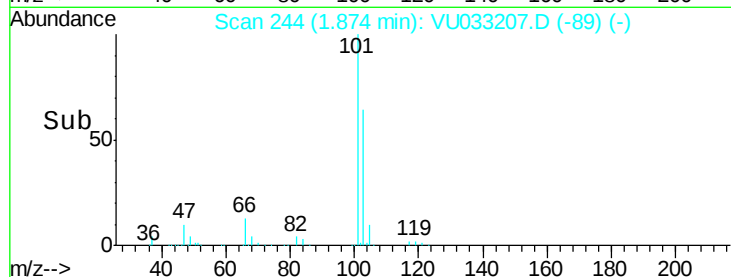
1.87

1.85 1.90 1.95

Time-->

MMDadoda

7/16/2019 4:02:40 PM



#8

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 9.660 ug/l

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU033207.D

Acq: 12 Jul 2019 00:08

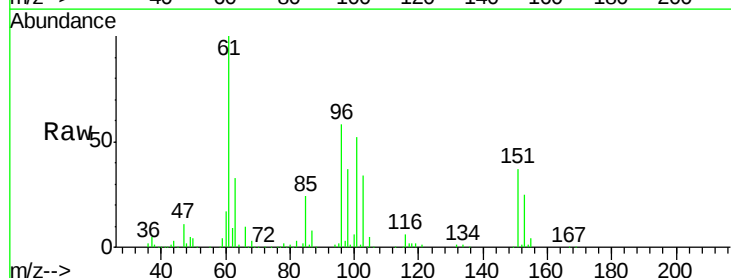
Tgt Ion:101 Resp: 103959

Ion Ratio Lower Upper

101 100

85 47.2 37.7 56.5

151 72.3 58.2 87.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V

80000

60000

40000

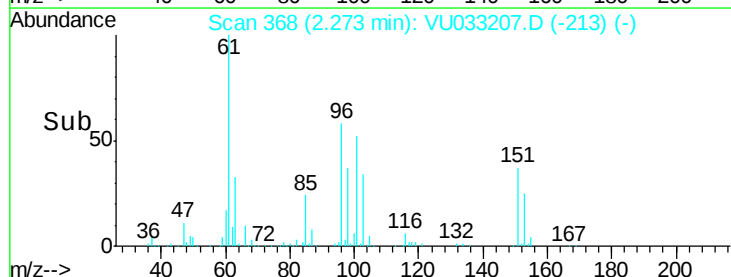
20000

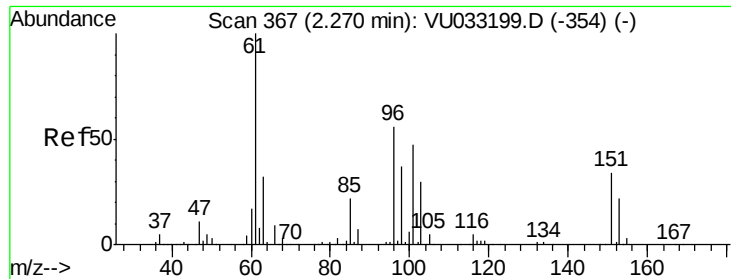
0

2.27

2.20 2.25 2.30 2.35

Time-->





#9

1,1-Dichloroethene

Concen: 9.609 ug/l

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033207.D

Acq: 12 Jul 2019 00:08

Instrument :

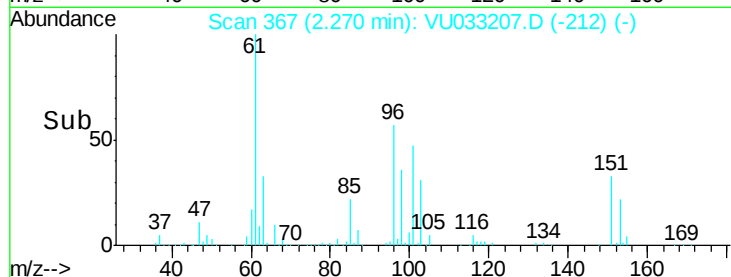
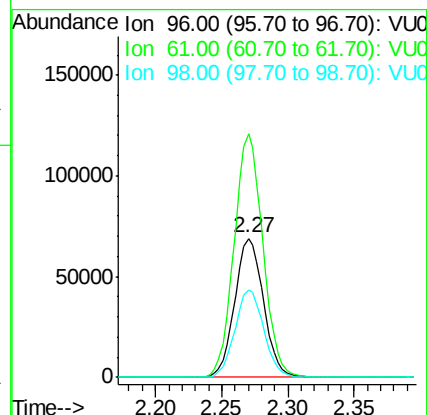
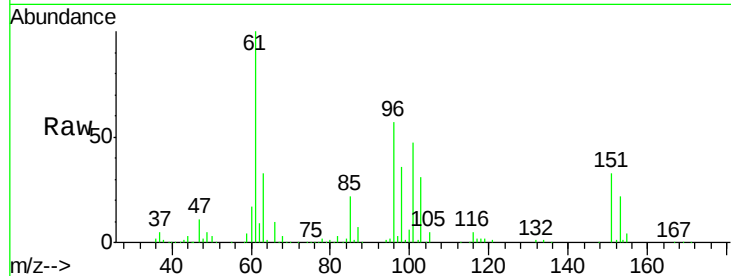
MSVOA_U

ClientSampleId :

VSTDCCC010EC

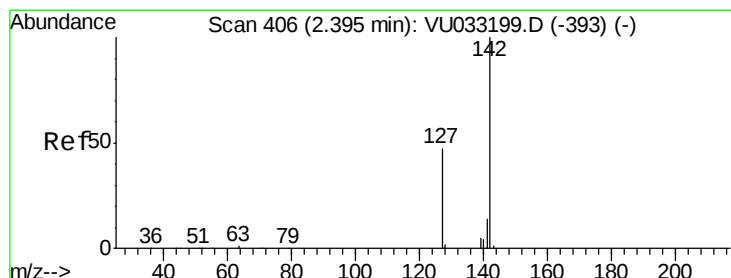
Tot Ion:	96	Resp:	104413
Ion	Ratio	Lower	Upper
96	100		
61	175.2	0.0	533.7
98	63.4	0.0	129.8

Manual Integrations
APPROVED



MMDadoda

7/16/2019 4:02:40 PM



#10

Iodomethane

Concen: 11.050 ug/l

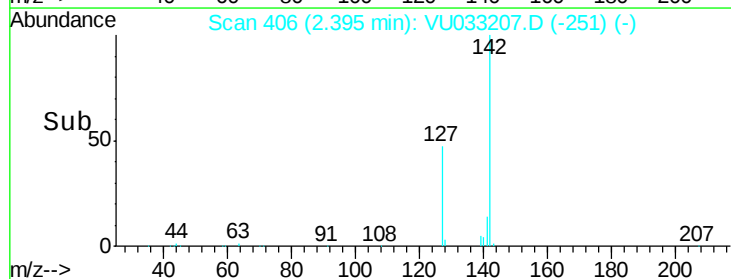
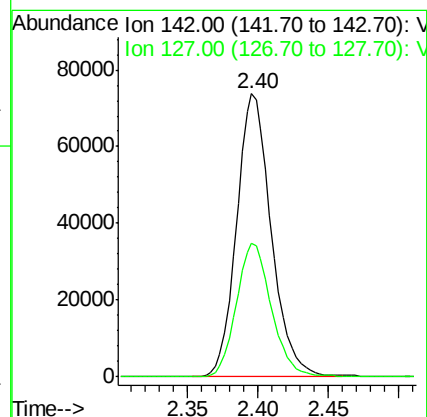
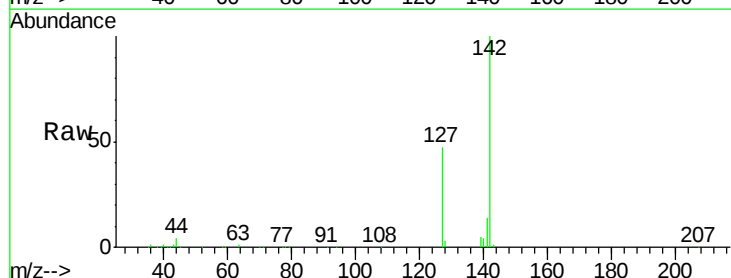
RT: 2.40 min Scan# 406

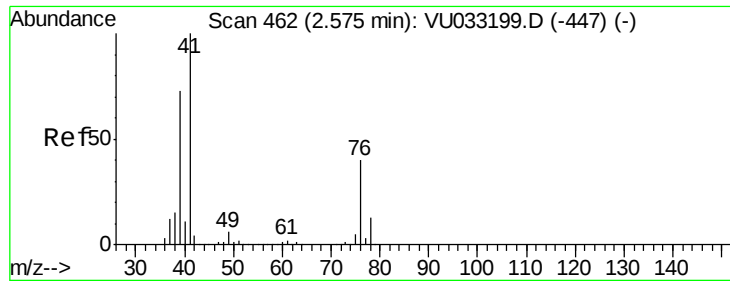
Delta R.T. -0.00 min

Lab File: VU033207.D

Acq: 12 Jul 2019 00:08

Tgt Ion:	142	Resp:	126732
Ion	Ratio	Lower	Upper
142	100		
127	47.9	37.0	55.4



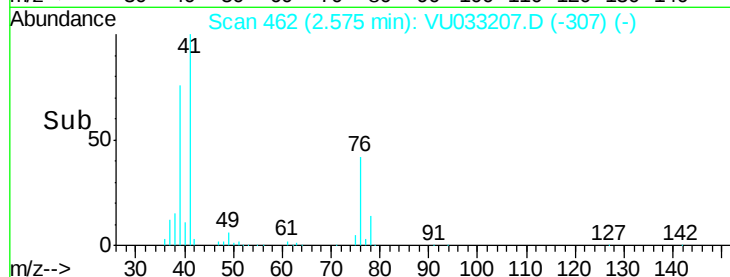
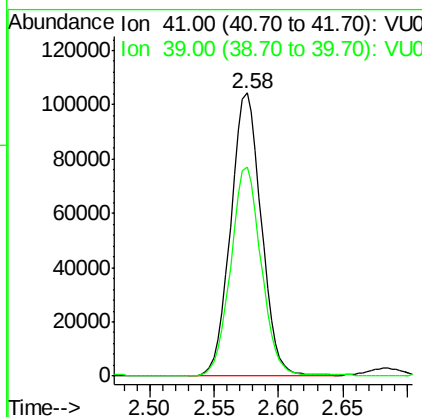
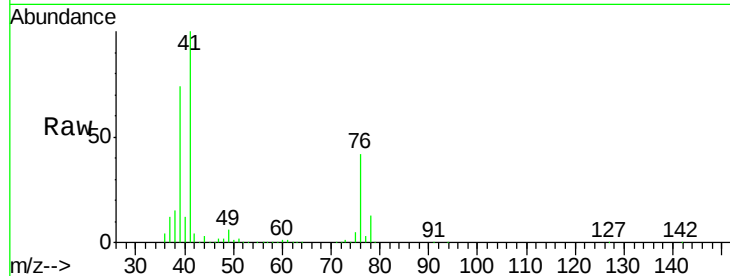


#11
Allvl Chloride
Concen: 9.439 ug/l
RT: 2.58 min Scan# 462
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

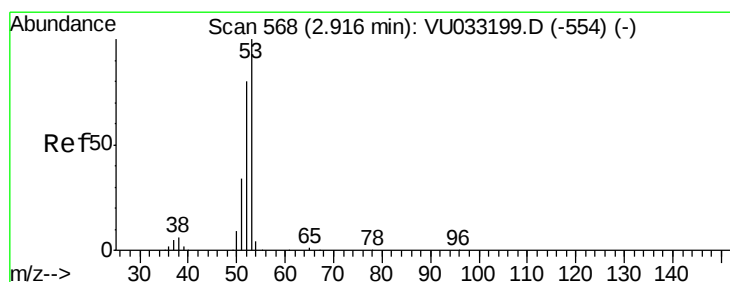
Tot Ion: 41 Resp: 171369
Ion Ratio Lower Upper
41 100
39 73.3 58.7 88.1

Manual Integrations
APPROVED



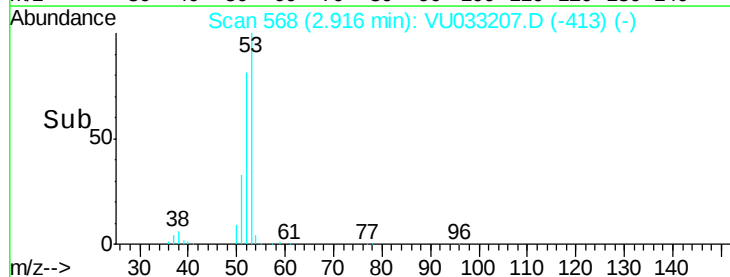
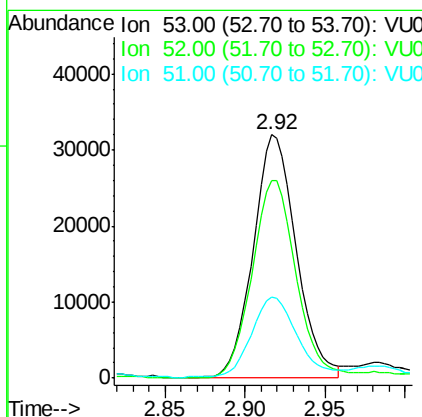
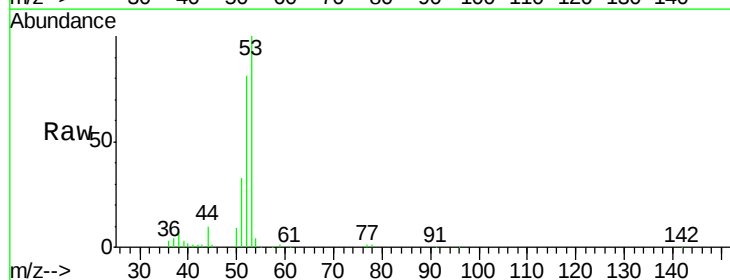
MMDadoda

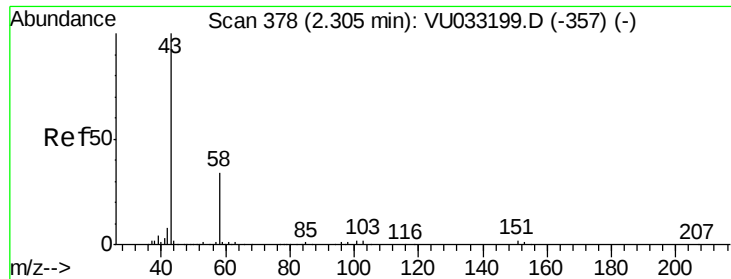
7/16/2019 4:02:40 PM



#12
Acrylonitrile
Concen: 19.809 ug/l
RT: 2.92 min Scan# 568
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

Tgt Ion: 53 Resp: 59617
Ion Ratio Lower Upper
53 100
52 83.5 68.3 102.5
51 35.8 28.7 43.1



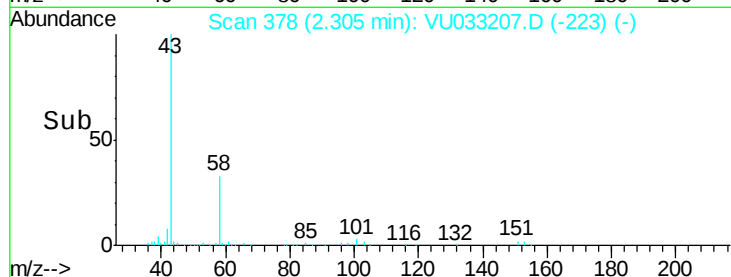
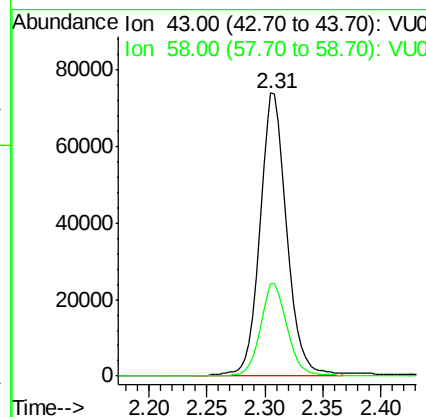
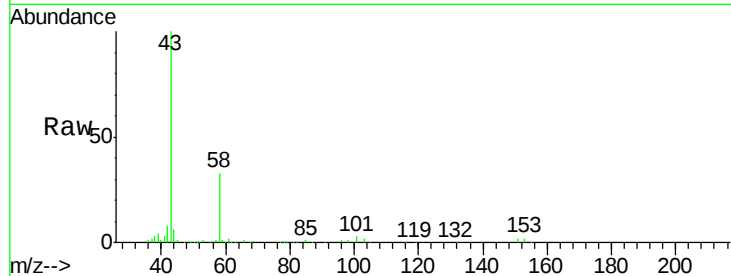


#13
Acetone
Concen: 44.129 ug/l
RT: 2.31 min Scan# 378
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

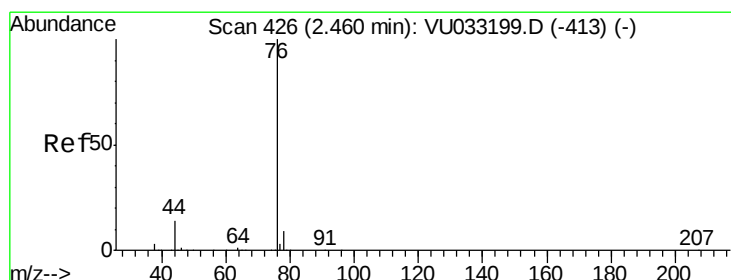
Tot Ion: 43 Resp: 119069
Ion Ratio Lower Upper
43 100
58 32.5 27.1 40.7

Manual Integrations
APPROVED



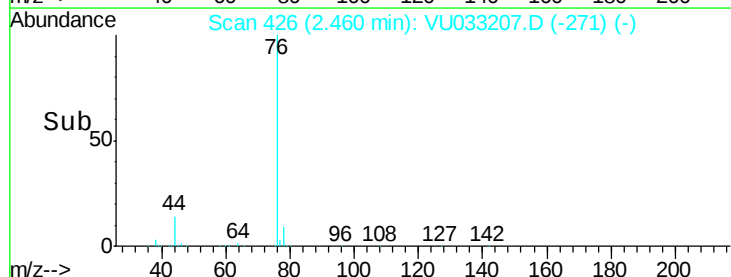
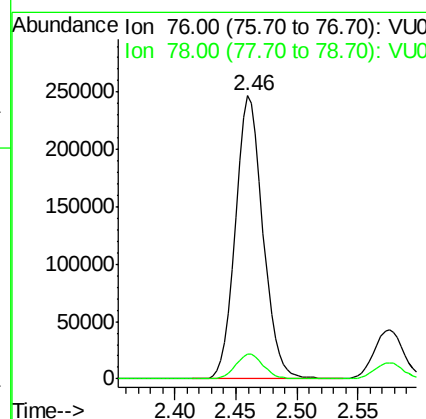
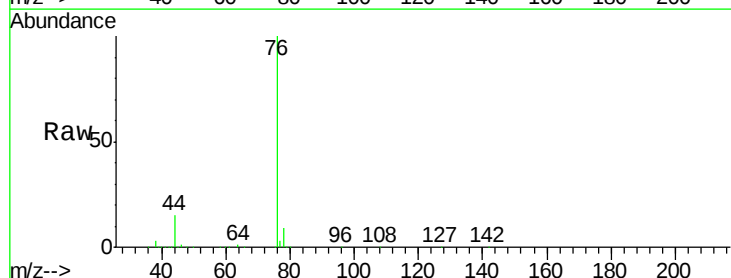
MMDadoda

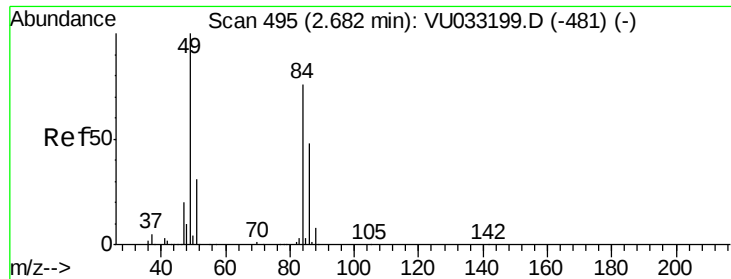
7/16/2019 4:02:40 PM



#14
Carbon Disulfide
Concen: 9.781 ug/l
RT: 2.46 min Scan# 426
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

Tgt Ion: 76 Resp: 387990
Ion Ratio Lower Upper
76 100
78 8.6 7.4 11.0



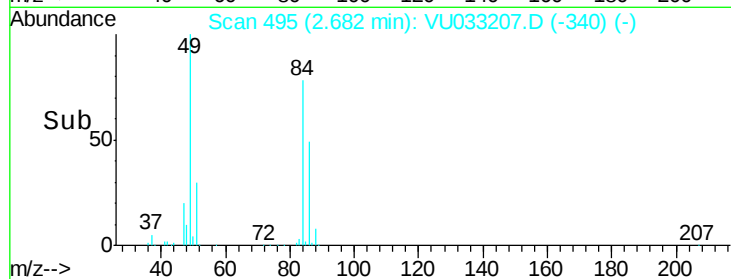
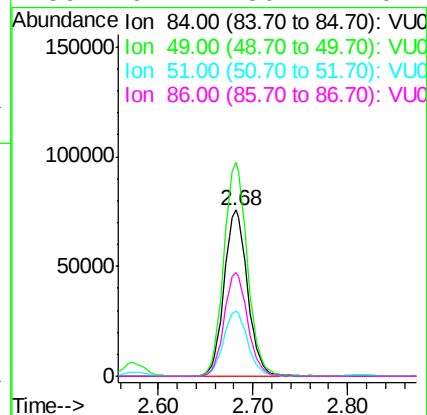
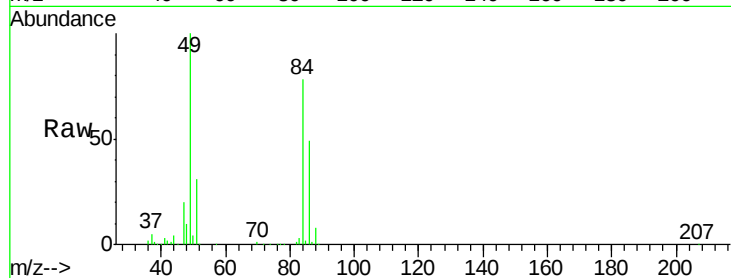


#15
Methvlene Chloride
Concen: 8.971 ug/l
RT: 2.68 min Scan# 495
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

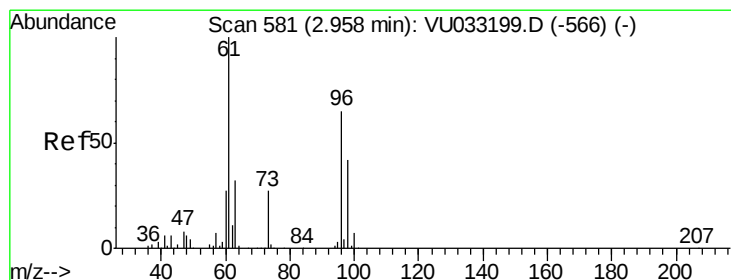
Tot Ion:	84	Resp:	130304
Ion Ratio	Lower	Upper	
84	100		
49	128.7	105.8	158.8
51	39.3	0.0	82.0
86	62.7	50.7	76.1

Manual Integrations
APPROVED



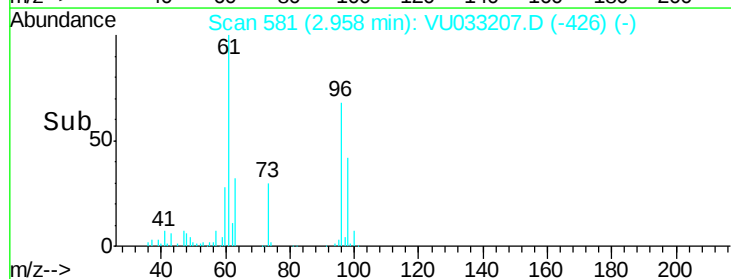
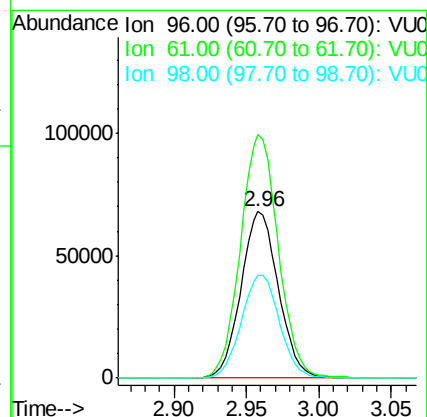
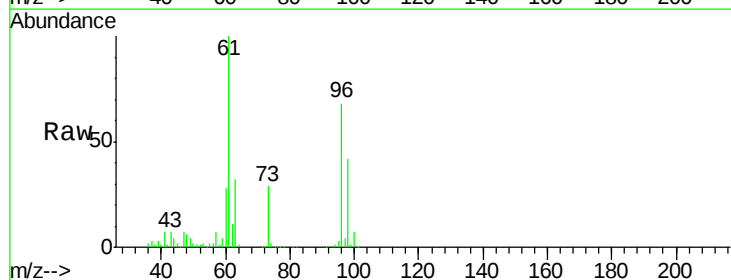
MMDadoda

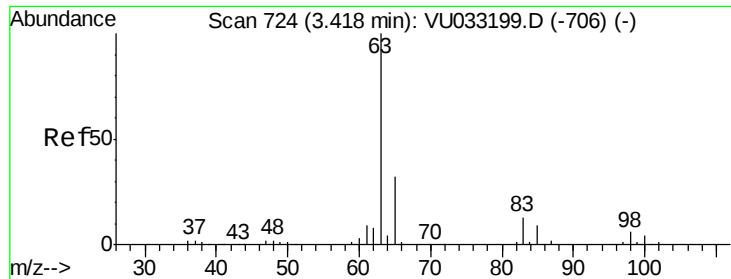
7/16/2019 4:02:40 PM



#16
trans-1,2-Dichloroethene
Concen: 9.774 ug/l
RT: 2.96 min Scan# 581
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

Tgt Ion:	96	Resp:	121636
Ion Ratio	Lower	Upper	
96	100		
61	146.0	122.6	184.0
98	61.9	52.0	78.0



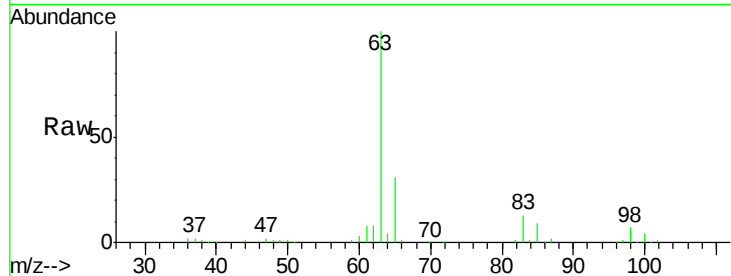


#17
 1,1-Dichloroethane
 Concen: 9.931 ug/l
 RT: 3.42 min Scan# 724
 Delta R.T. -0.00 min
 Lab File: VU033207.D
 Acq: 12 Jul 2019 00:08

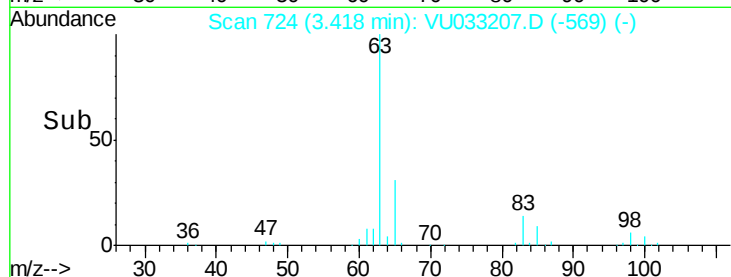
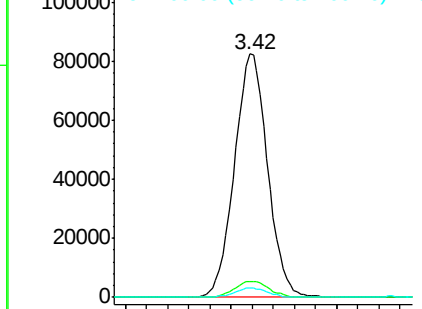
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.3	9.8
100	3.7	1.8	5.4

Manual Integrations
 APPROVED

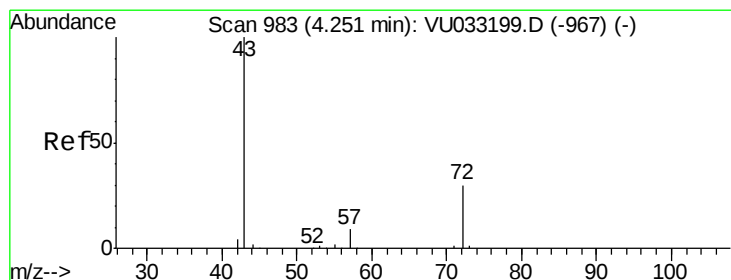


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0
 Ion 100.00 (99.70 to 100.70): VU0



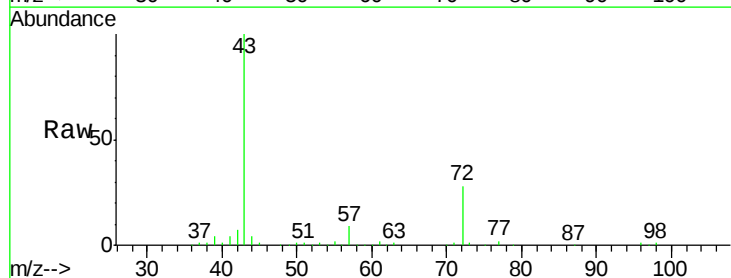
MMDadoda

7/16/2019 4:02:40 PM

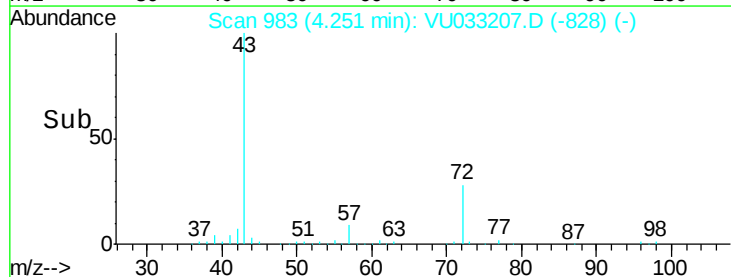
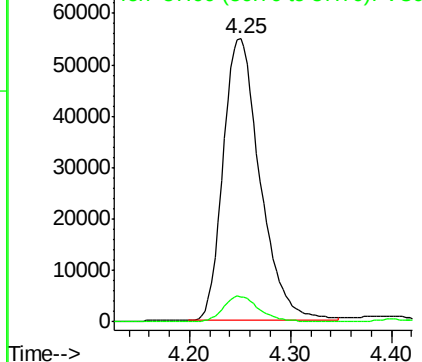


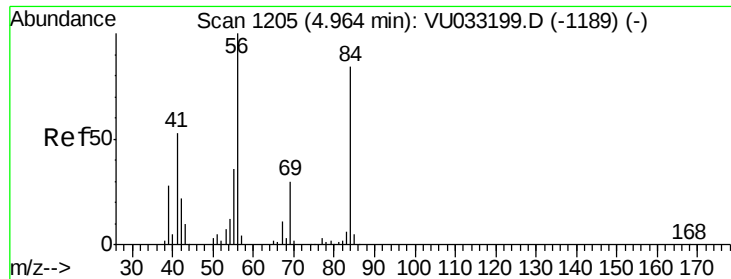
#18
 2-Butanone
 Concen: 51.641 ug/l
 RT: 4.25 min Scan# 983
 Delta R.T. -0.00 min
 Lab File: VU033207.D
 Acq: 12 Jul 2019 00:08

Tgt Ion	Ratio	Lower	Upper
43	100		
57	9.0	0.0	18.4



Abundance Ion 43.00 (42.70 to 43.70): VU0
 Ion 57.00 (56.70 to 57.70): VU0



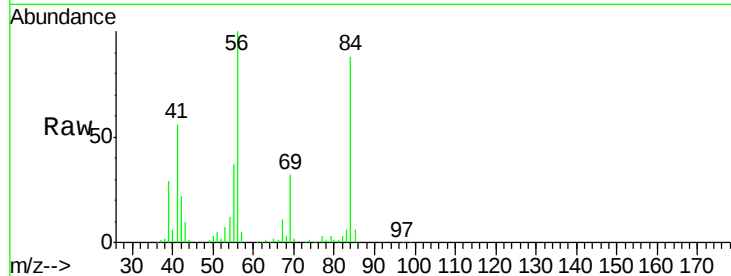


#19
Cyclohexane
Concen: 10.571 ug/l m
RT: 4.97 min Scan# 1206
Delta R.T. 0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

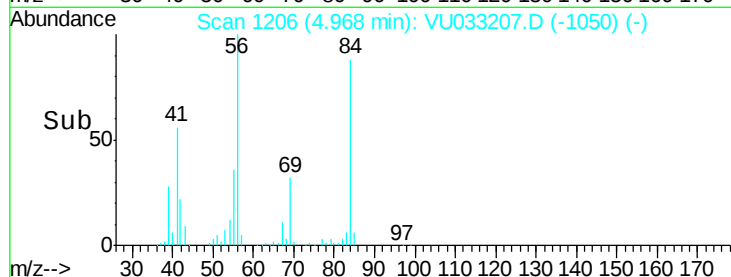
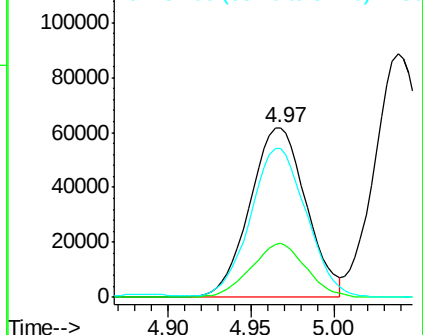
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
56	100		
69	31.1	24.6	37.0
84	86.4	67.5	101.3

Manual Integrations
APPROVED

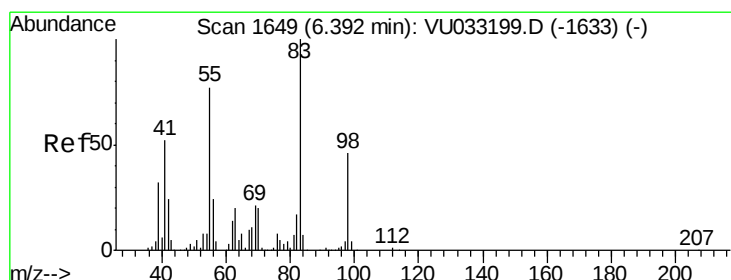


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0



MM Dadoda

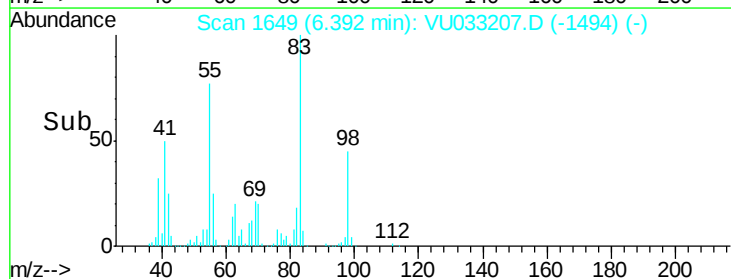
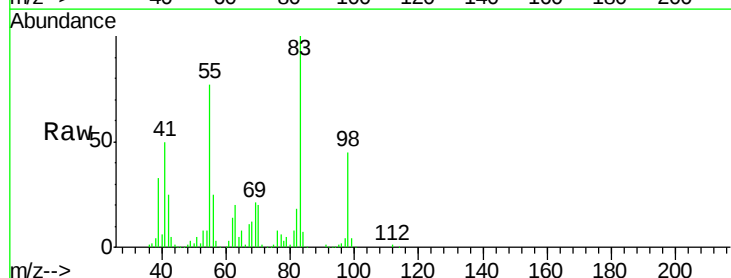
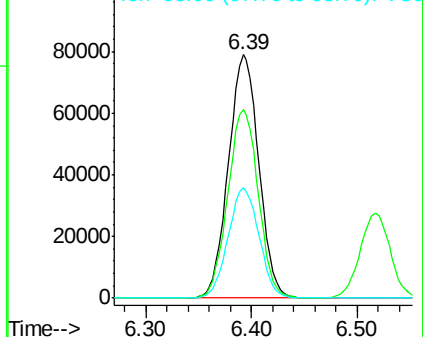
7/16/2019 4:02:40 PM

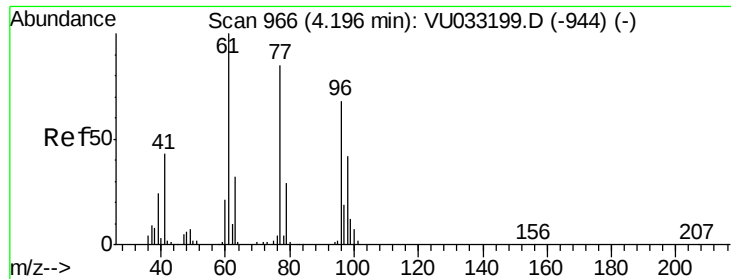


#20
Methylcyclohexane
Concen: 10.871 ug/l
RT: 6.39 min Scan# 1649
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

Tgt Ion	Ratio	Lower	Upper
83	100		
55	77.4	62.0	93.0
98	45.9	36.3	54.5

Abundance Ion 83.00 (82.70 to 83.70): VU0
Ion 55.00 (54.70 to 55.70): VU0
Ion 98.00 (97.70 to 98.70): VU0



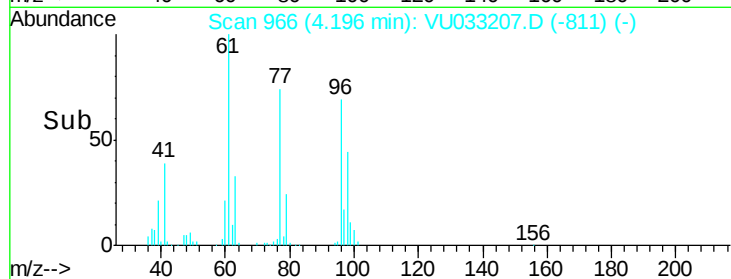
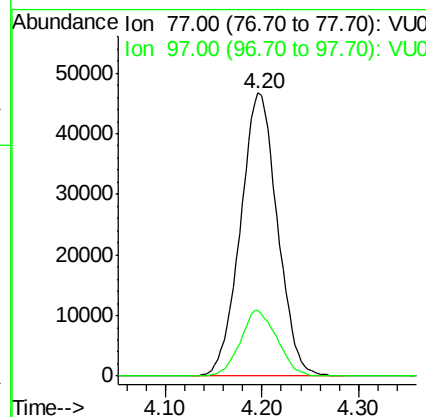
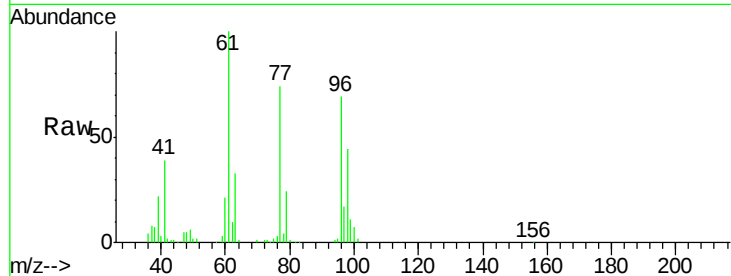


#21
2,2-Dichloropropane
Concen: 8.175 ug/l
RT: 4.20 min Scan# 966
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

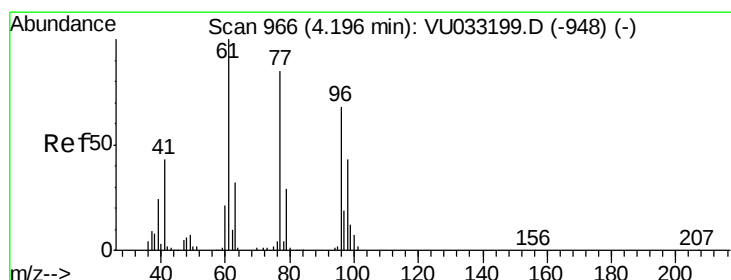
Tot Ion: 77 Resp: 124095
Ion Ratio Lower Upper
77 100
97 23.1 17.6 26.4

Manual Integrations
APPROVED



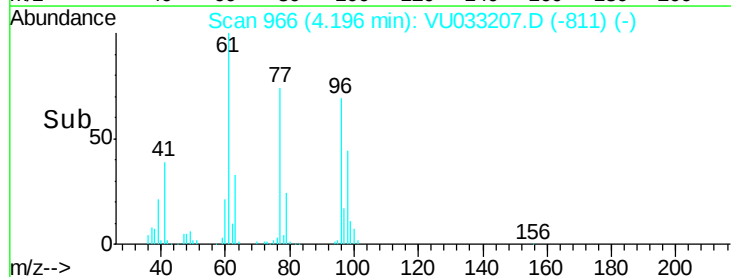
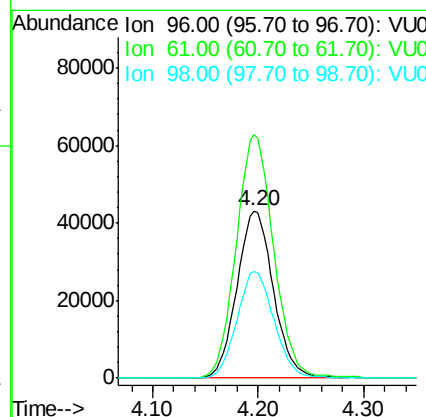
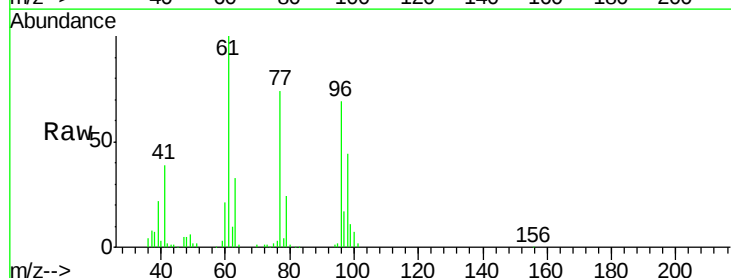
MMDadoda

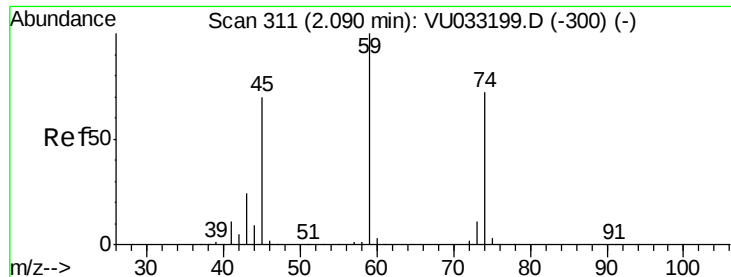
7/16/2019 4:02:40 PM



#22
cis-1,2-Dichloroethene
Concen: 10.030 ug/l
RT: 4.20 min Scan# 966
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

Tgt Ion: 96 Resp: 103668
Ion Ratio Lower Upper
96 100
61 149.3 0.0 377.3
98 64.7 32.3 96.8



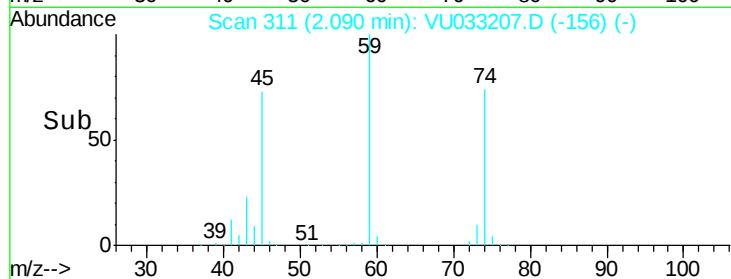
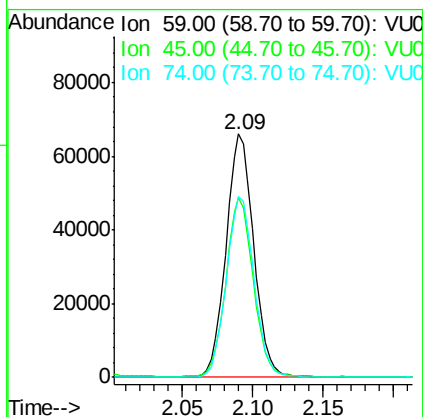
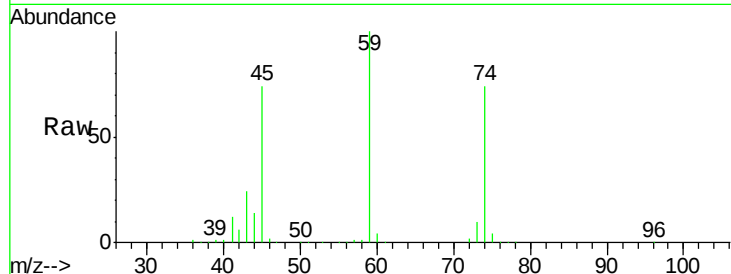


#23
Diethyl Ether
Concen: 9.563 ug/l
RT: 2.09 min Scan# 311
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

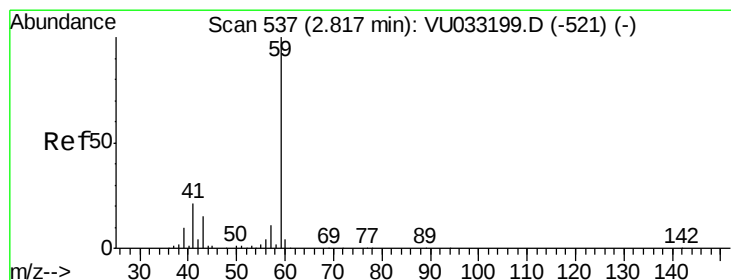
Tot Ion	Ratio	Lower	Upper
59	100		
45	72.5	55.7	83.5
74	74.3	58.1	87.1

Manual Integrations
APPROVED



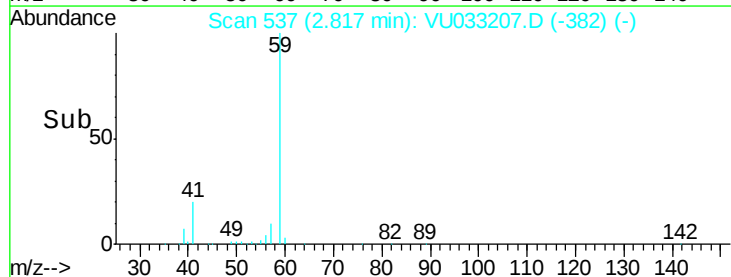
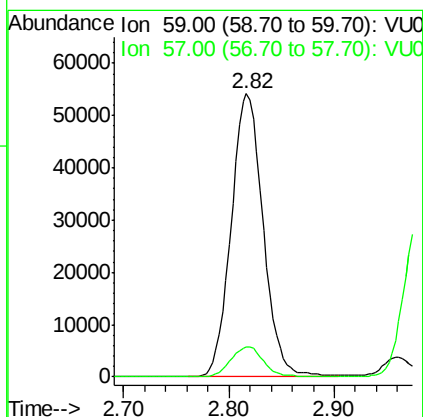
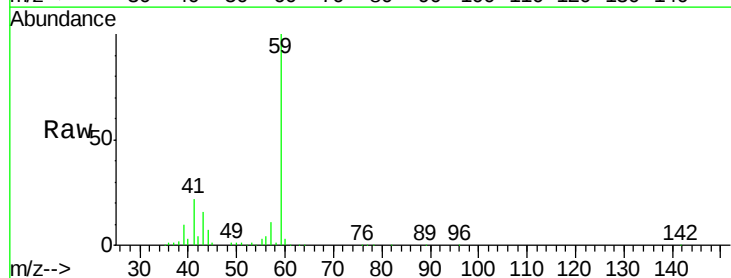
MMDadoda

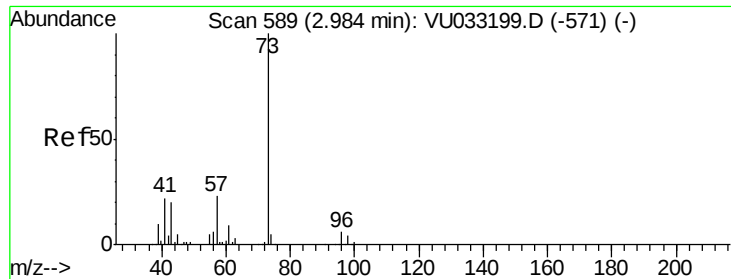
7/16/2019 4:02:40 PM



#24
tert-Butyl Alcohol
Concen: 98.623 ug/l
RT: 2.82 min Scan# 537
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

Tgt Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.5	12.7



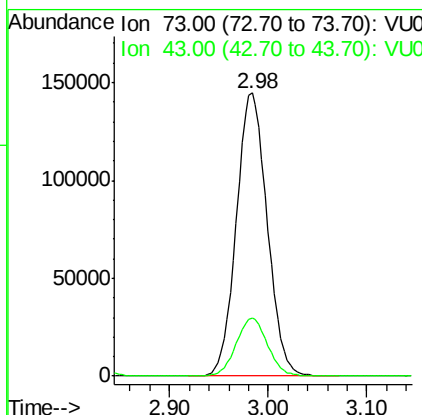
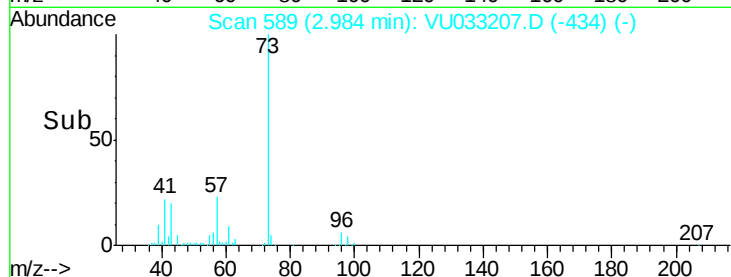
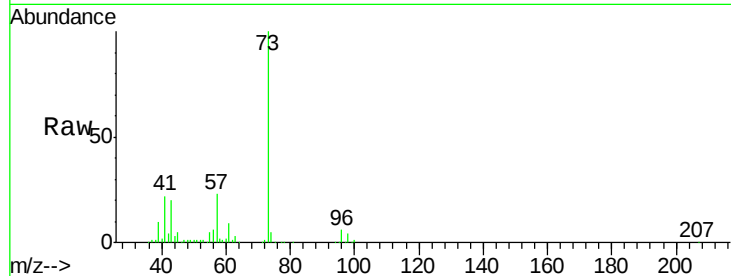


#25
Methvl tert-Butvl Ether
Concen: 9.911 ug/l
RT: 2.98 min Scan# 589
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

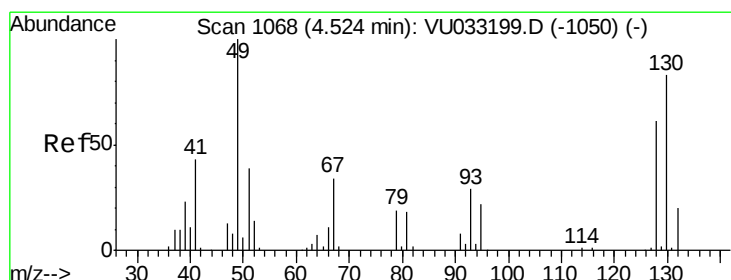
Tot Ion: 73 Resp: 313930
Ion Ratio Lower Upper
73 100
43 20.4 16.1 24.1

Manual Integrations
APPROVED



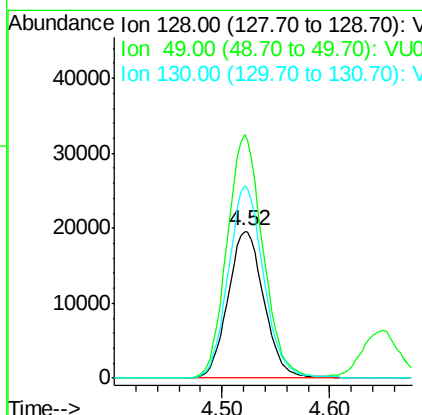
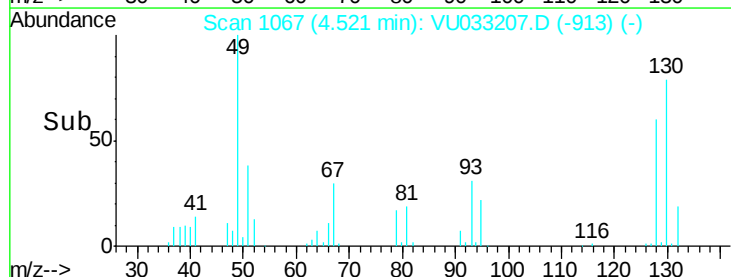
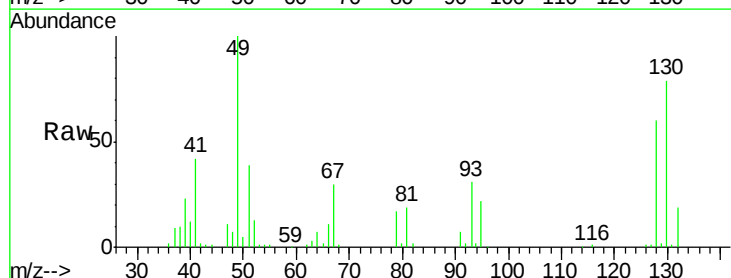
MMDadoda

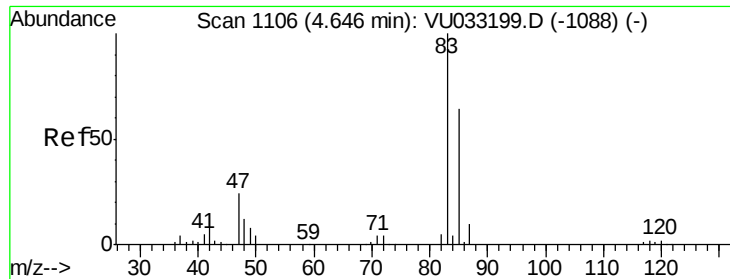
7/16/2019 4:02:40 PM



#26
Bromochloromethane
Concen: 9.931 ug/l
RT: 4.52 min Scan# 1067
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

Tgt Ion: 128 Resp: 45471
Ion Ratio Lower Upper
128 100
49 165.2 0.0 328.6
130 128.9 104.1 156.1



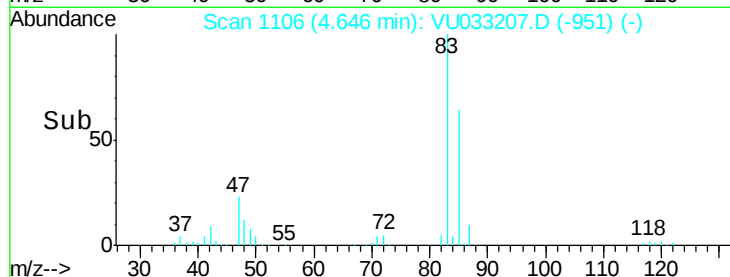
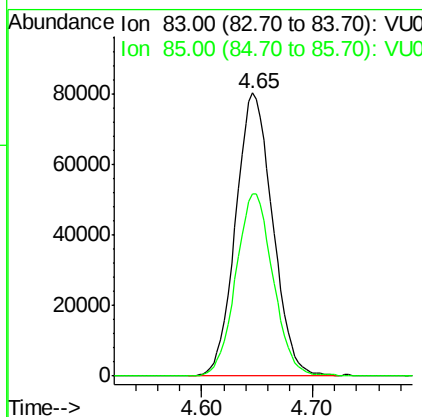
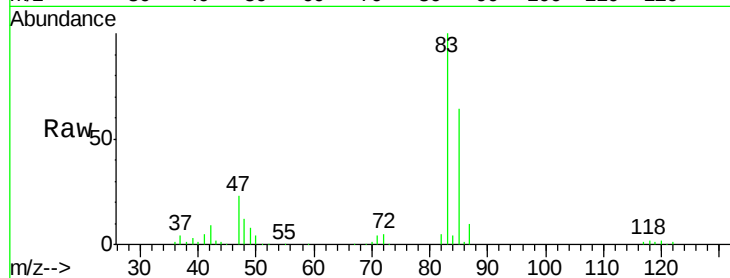


#27
Chloroform
Concen: 9.351 ug/l
RT: 4.65 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

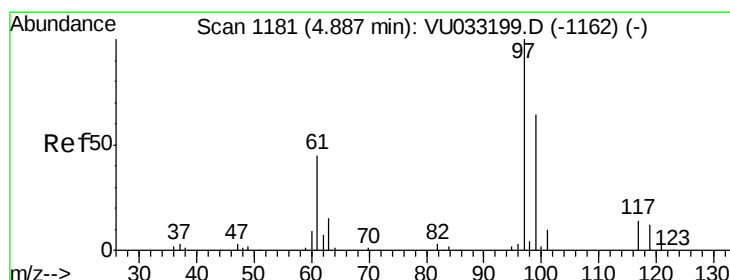
Tot Ion	83	Resp	186552
Ion Ratio	100	Lower	Upper
85	64.4	0.0	128.4

Manual Integrations
APPROVED



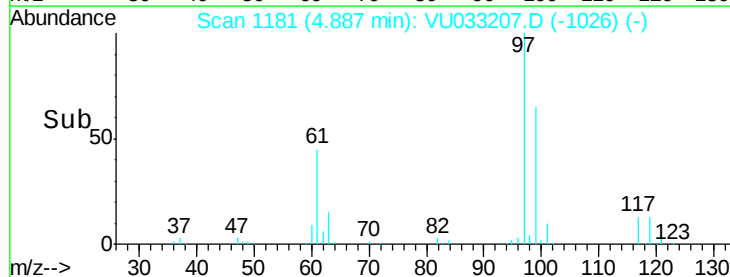
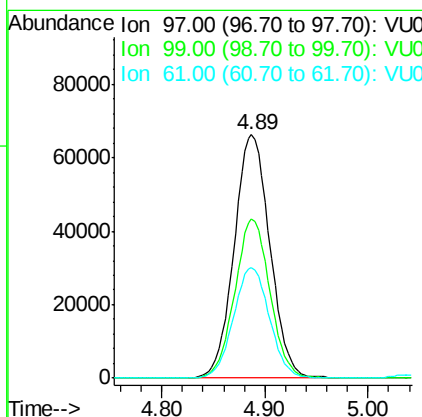
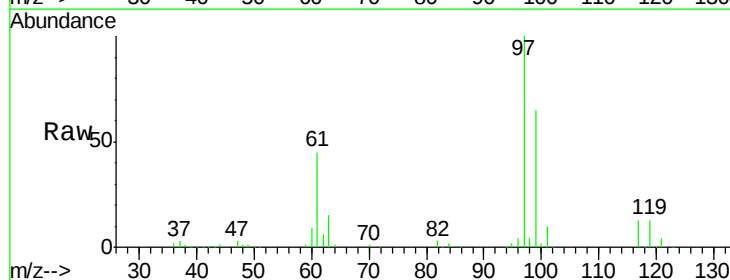
MMDadoda

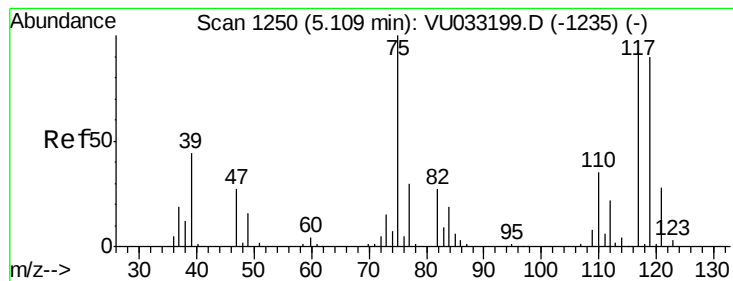
7/16/2019 4:02:40 PM



#28
1,1,1-Trichloroethane
Concen: 10.109 ug/l
RT: 4.89 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

Tgt Ion	97	Resp	159660
Ion Ratio	100	Lower	Upper
99	64.4	31.9	95.5
61	45.7	22.6	67.7





#29

1,1-Dichloropropene

Concen: 10.462 ug/l

RT: 5.11 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VU033207.D

Acq: 12 Jul 2019 00:08

Instrument :

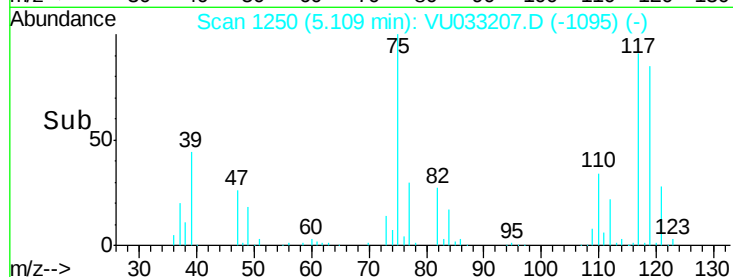
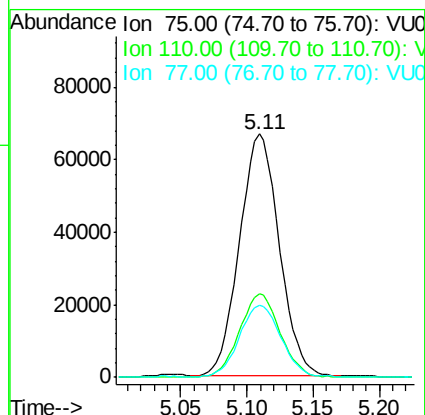
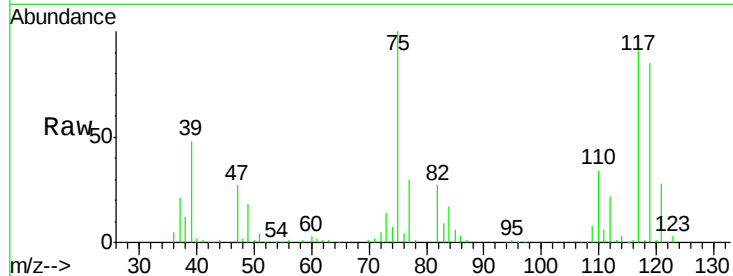
MSVOA_U

ClientSampleId :

VSTDCCC010EC

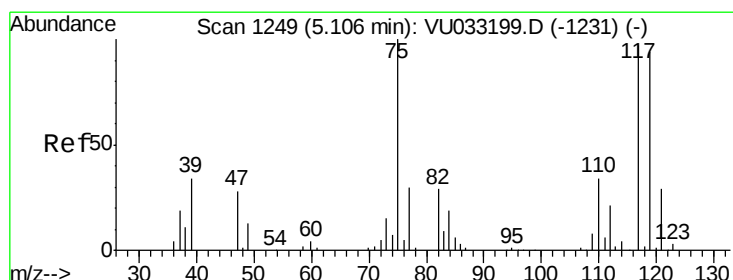
Tot Ion:	75	Resp:	139355
Ion Ratio	Lower	Upper	
75	100		
110	35.2	17.5	52.6
77	30.6	24.6	37.0

Manual Integrations
APPROVED



MMDadoda

7/16/2019 4:02:40 PM



#30

Carbon Tetrachloride

Concen: 10.048 ug/l

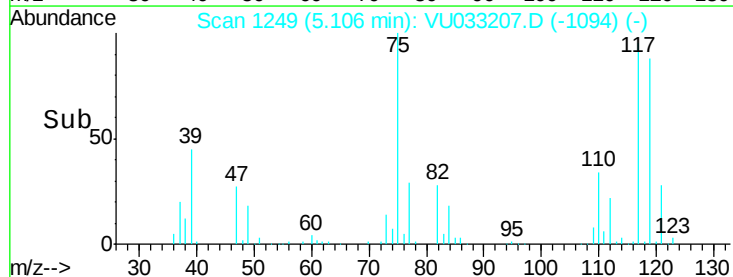
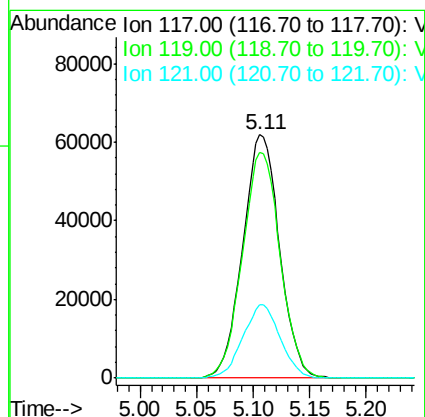
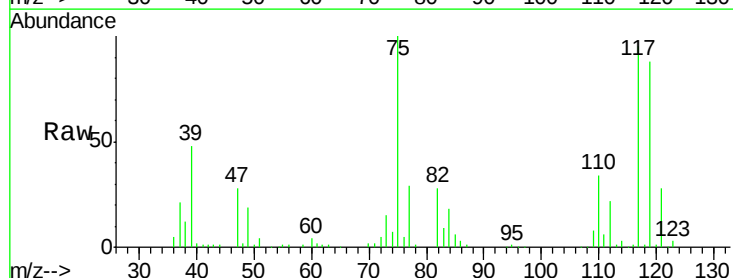
RT: 5.11 min Scan# 1249

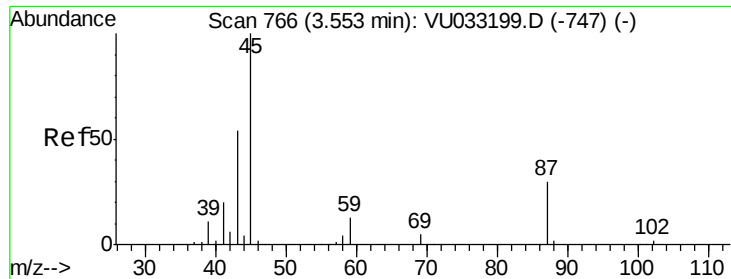
Delta R.T. -0.00 min

Lab File: VU033207.D

Acq: 12 Jul 2019 00:08

Tgt Ion:	117	Resp:	140134
Ion Ratio	Lower	Upper	
117	100		
119	92.9	77.4	116.0
121	29.9	24.2	36.2





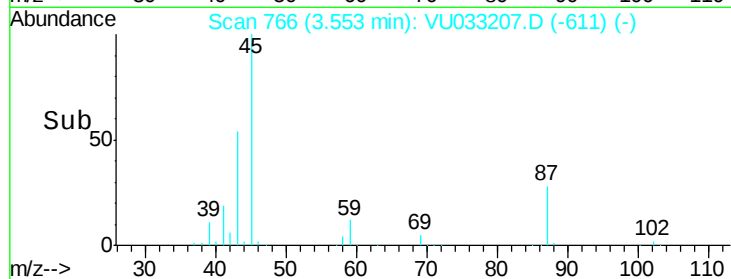
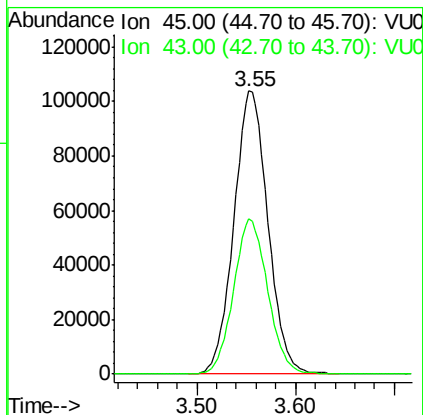
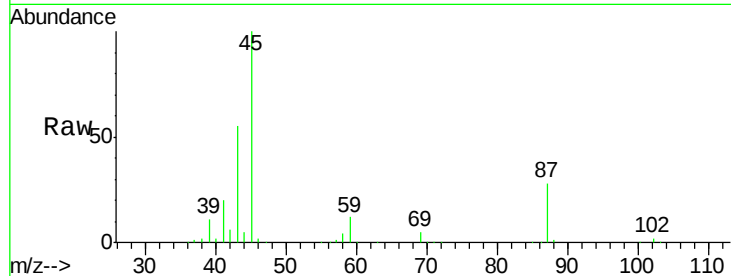
#31

Isopropyl Ether
Concen: 10.255 ug/l
RT: 3.55 min Scan# 766
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

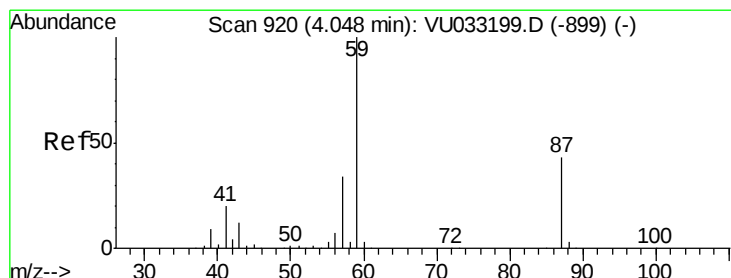
Tot Ion	45	43	Ratio	100	55.1	Resp	248730	Lower	27.3	Upper	81.8
Ion	45	43	Ratio	100	55.1	Resp	248730	Lower	27.3	Upper	81.8

Manual Integrations
APPROVED



MMDadoda

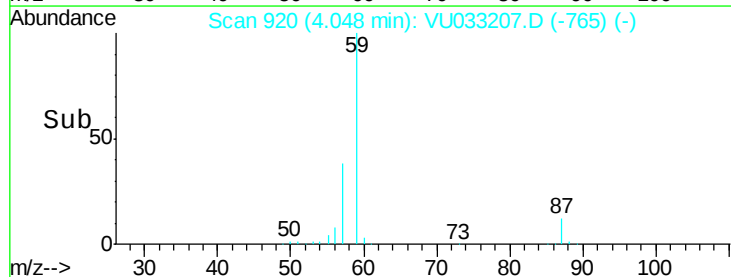
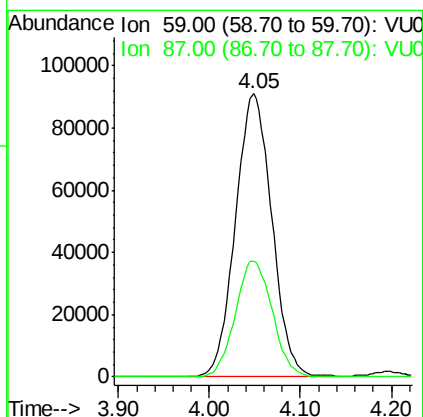
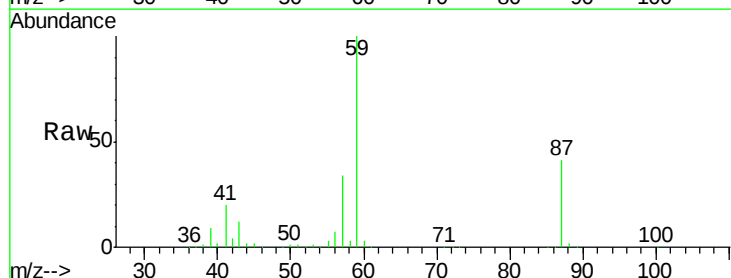
7/16/2019 4:02:40 PM

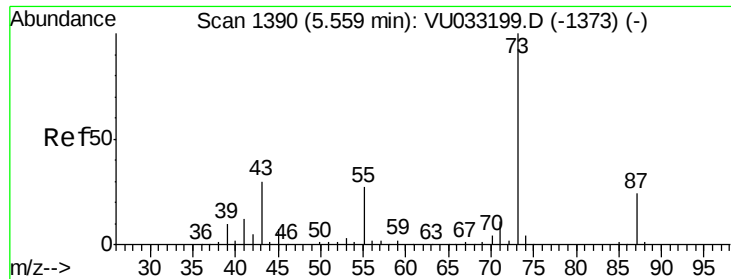


#32

Ethyl-t-butyl ether
Concen: 10.635 ug/l
RT: 4.05 min Scan# 920
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

Tgt Ion	59	87	Ratio	100	41.5	Resp	251578	Lower	34.5	Upper	51.7
Ion	59	87	Ratio	100	41.5	Resp	251578	Lower	34.5	Upper	51.7



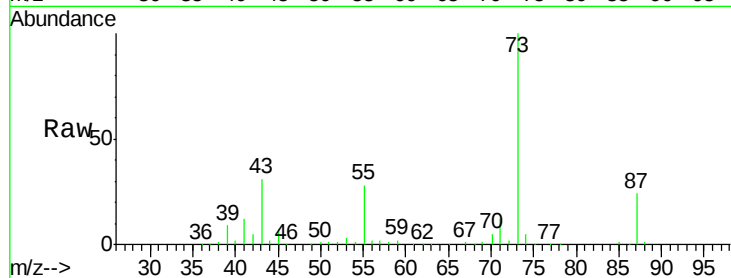


#33
Tert-Butyl methyl ether
Concen: 10.839 ug/l
RT: 5.56 min Scan# 1390
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

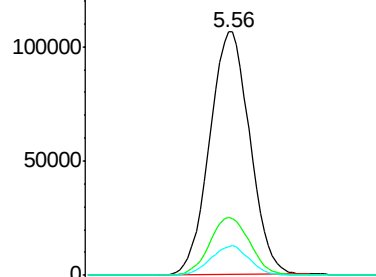
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
73	100		
87	24.0	19.8	29.6
71	11.8	9.1	13.7

Manual Integrations
APPROVED

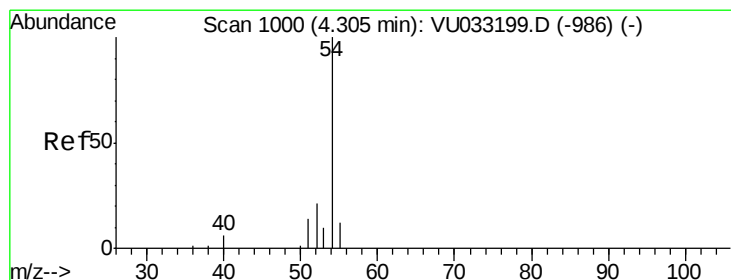
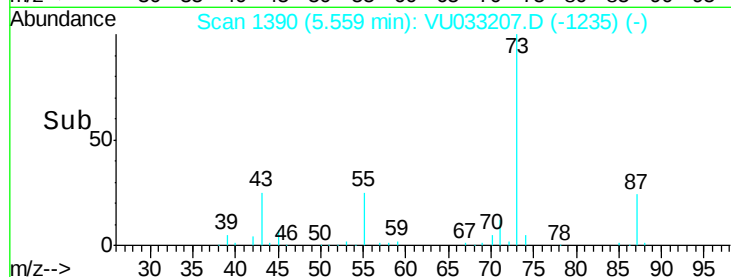


Abundance Ion 73.00 (72.70 to 73.70): VU033207.D (-1235) (-)



MMDadoda

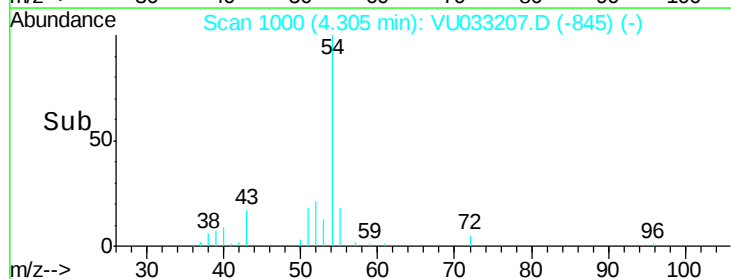
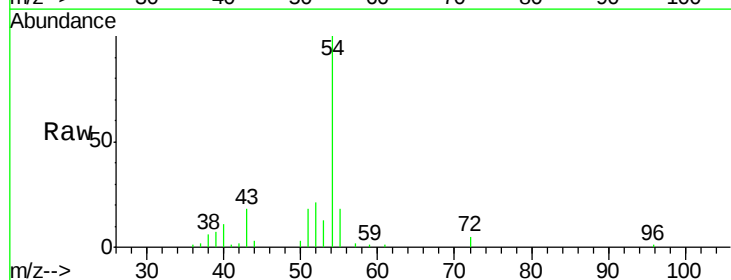
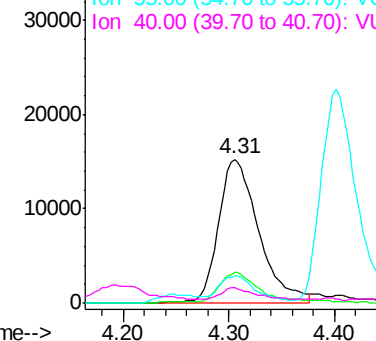
7/16/2019 4:02:40 PM

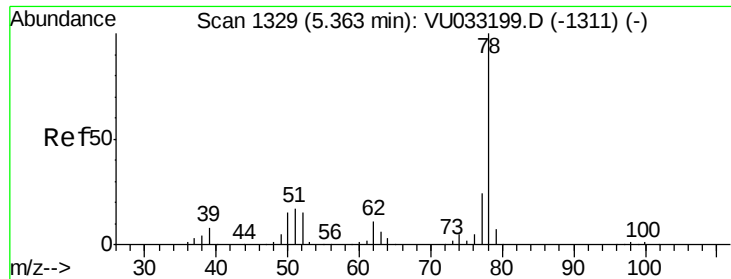


#34
Propionitrile
Concen: 53.189 ug/l
RT: 4.31 min Scan# 1000
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

Tgt Ion	Ratio	Lower	Upper
54	100		
52	18.5	16.7	25.1
55	14.3	12.9	19.3
40	7.2	4.8	7.2#

Abundance Ion 54.00 (53.70 to 54.70): VU033207.D (-845) (-)





#35

Benzene

Concen: 10.209 ug/l

RT: 5.36 min Scan# 1329

Delta R.T. -0.00 min

Lab File: VU033207.D

Acq: 12 Jul 2019 00:08

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tot Ion: 78 Resp: 396444

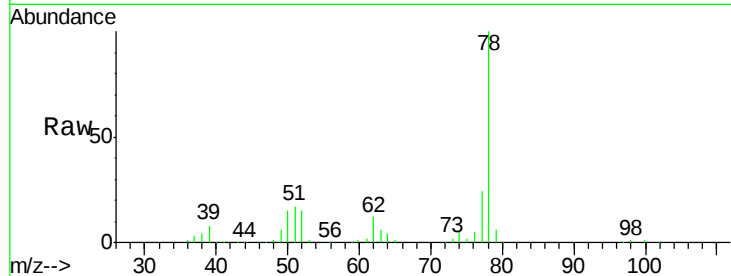
Ion Ratio Lower Upper

78 100

77 24.4 19.3 28.9

Manual Integrations

APPROVED



Abundance Ion 78.10 (77.80 to 78.80): VU0

Ion 77.00 (76.70 to 77.70): VU0

5.36

200000

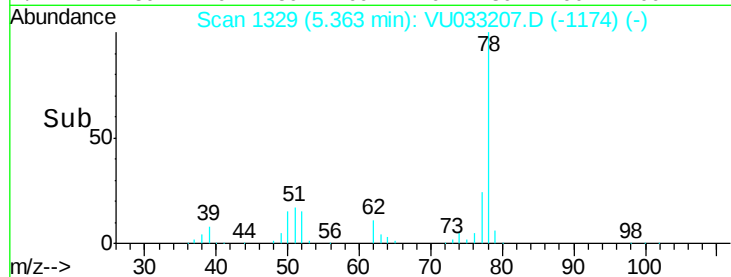
150000

100000

50000

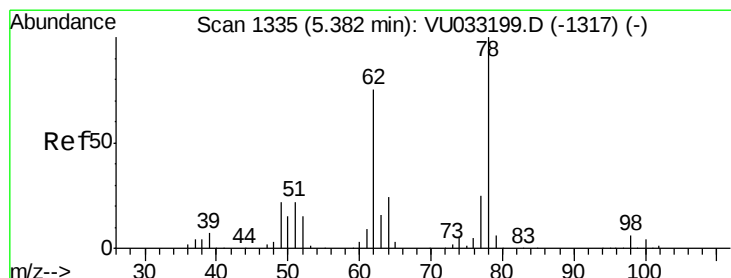
0

Time--> 5.25 5.30 5.35 5.40 5.45



MMDadoda

7/16/2019 4:02:40 PM



#36

1,2-Dichloroethane

Concen: 10.237 ug/l

RT: 5.38 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VU033207.D

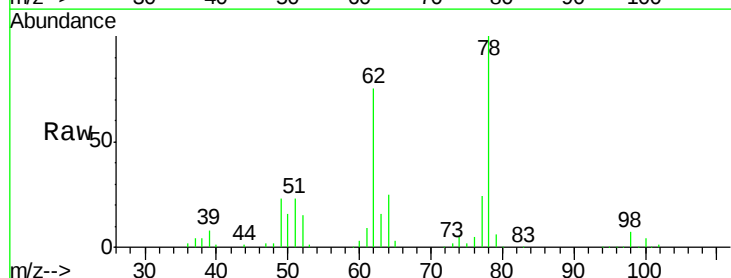
Acq: 12 Jul 2019 00:08

Tgt Ion: 62 Resp: 128686

Ion Ratio Lower Upper

62 100

98 8.5 6.7 10.1



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

5.38

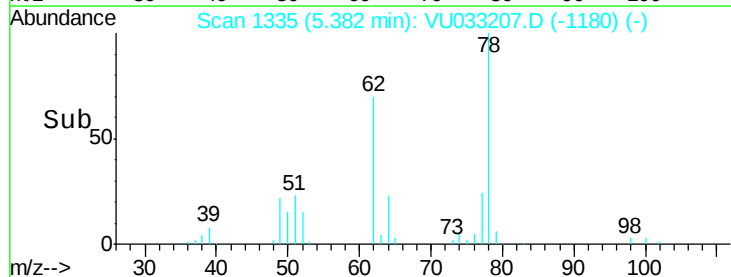
60000

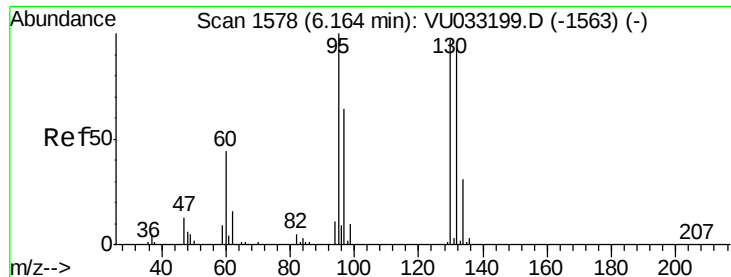
40000

20000

0

Time--> 5.30 5.40 5.50



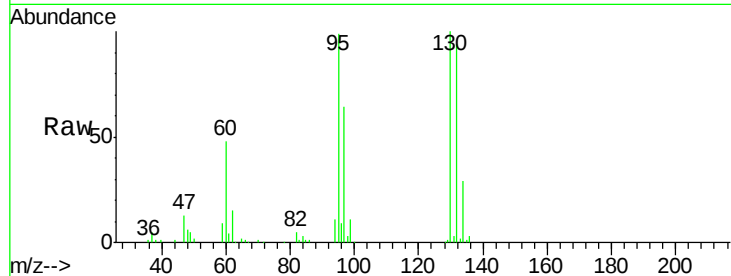


#37
 Trichloroethene
 Concen: 10.164 ug/l
 RT: 6.16 min Scan# 1578
 Delta R.T. -0.00 min
 Lab File: VU033207.D
 Acq: 12 Jul 2019 00:08

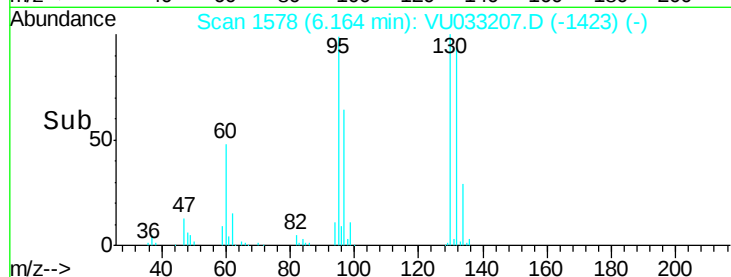
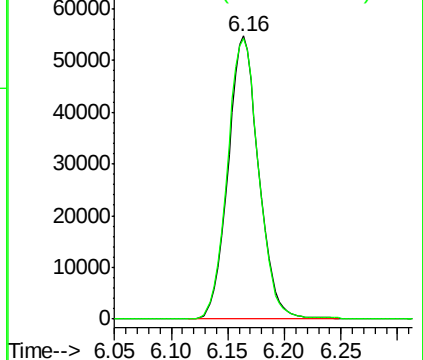
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
130	100		
95	99.0	82.4	123.6

Manual Integrations
 APPROVED

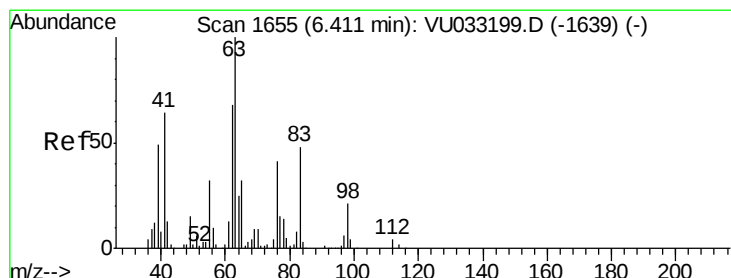


Abundance Ion 129.90 (129.60 to 130.60): VU033199.D (-1563) (-)



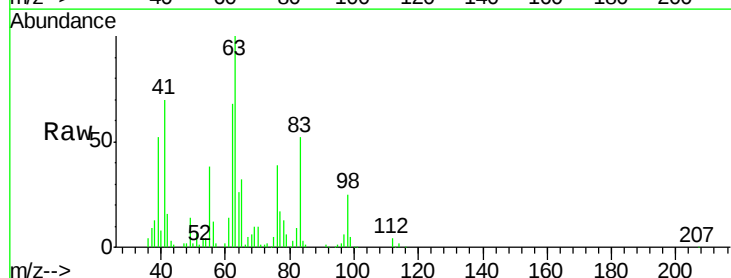
MMDadoda

7/16/2019 4:02:40 PM

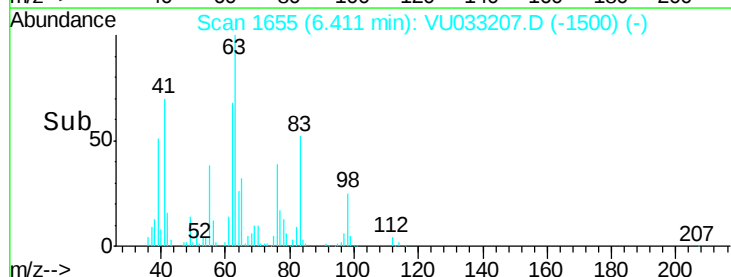
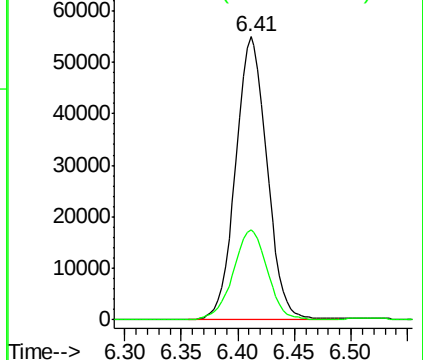


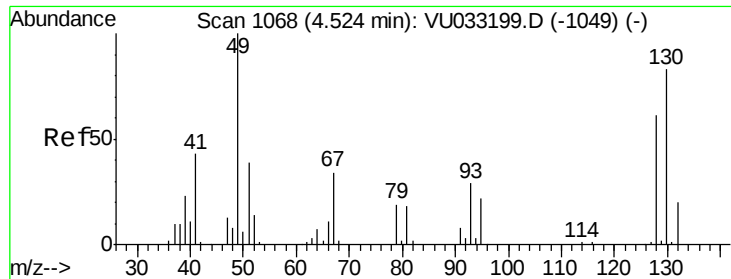
#38
 1,2-Dichloropropane
 Concen: 10.126 ug/l
 RT: 6.41 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: VU033207.D
 Acq: 12 Jul 2019 00:08

Tgt Ion	Ratio	Lower	Upper
63	100		
65	31.6	25.3	37.9



Abundance Ion 63.00 (62.70 to 63.70): VU033199.D (-1639) (-)



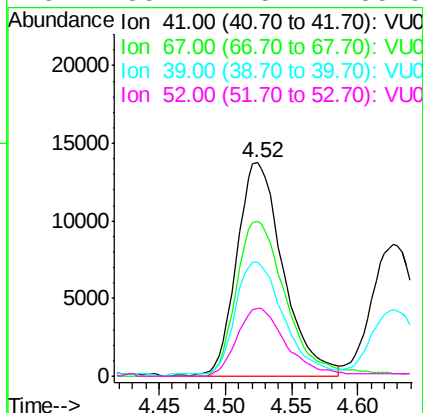
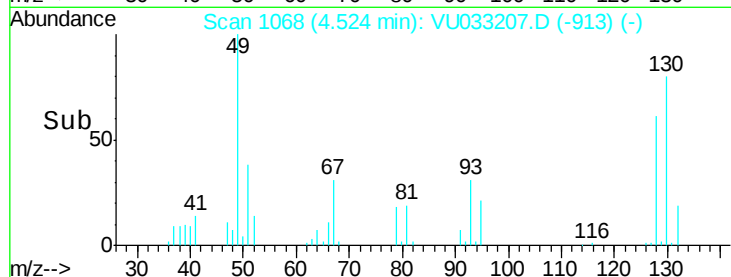
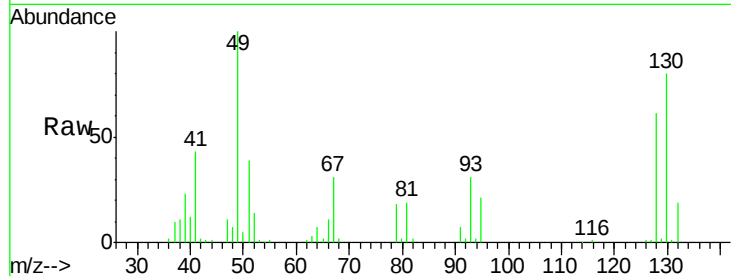


#39
Methacrylonitrile
Concen: 10.566 ug/l
RT: 4.52 min Scan# 1068
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

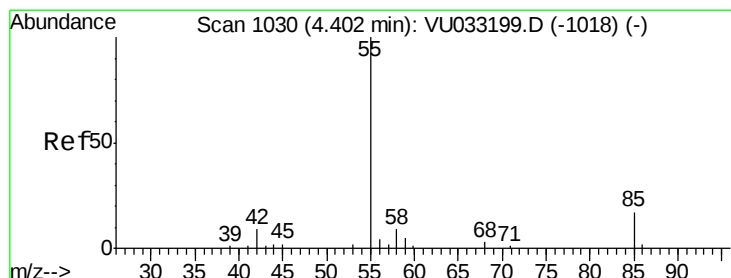
Tot Ion:	41	Resp:	33458
Ion	Ratio	Lower	Upper
41	100		
67	76.2	61.0	91.4
39	52.8	44.4	66.6
52	33.7	25.7	38.5

Manual Integrations
APPROVED



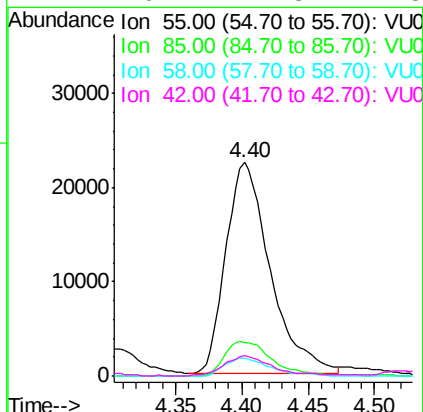
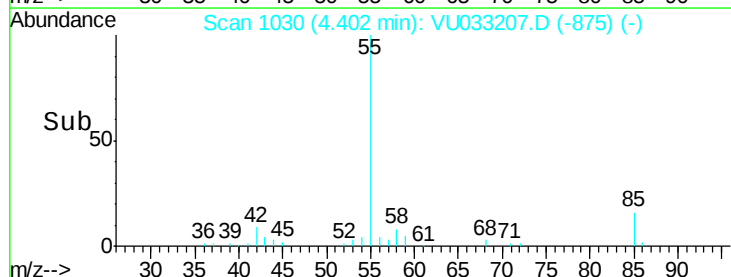
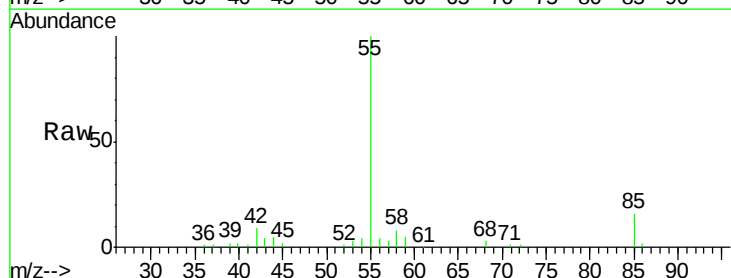
MMDadoda

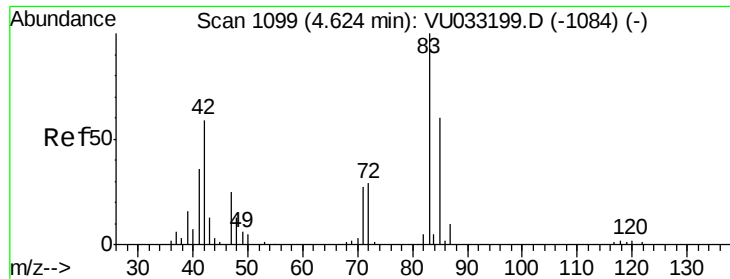
7/16/2019 4:02:40 PM



#40
Methyl acrylate
Concen: 11.153 ug/l
RT: 4.40 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

Tgt Ion:	55	Resp:	52295
Ion	Ratio	Lower	Upper
55	100		
85	17.5	13.0	19.6
58	8.8	7.0	10.4
42	10.1	7.8	11.8



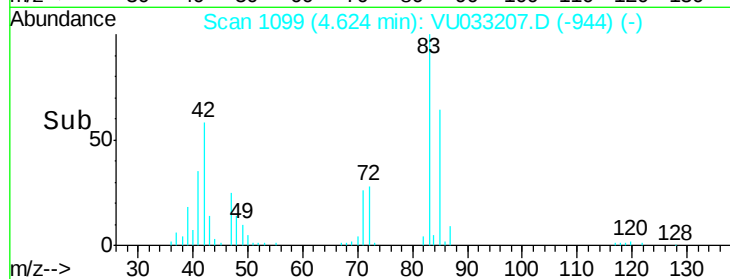
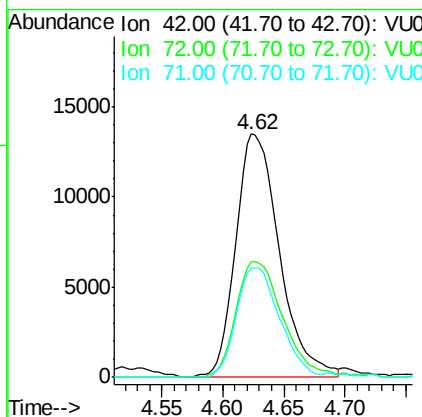
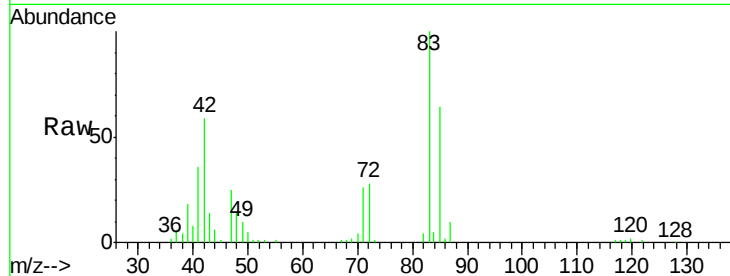


#41
Tetrahydrofuran
Concen: 20.191 ug/l
RT: 4.62 min Scan# 1099
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

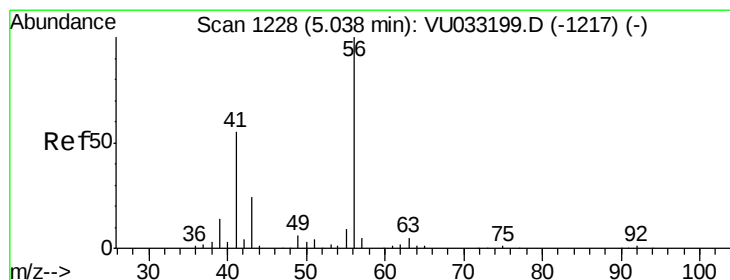
Tot Ion	Ratio	Lower	Upper
42	100		
72	50.6	40.7	61.1
71	44.4	35.4	53.0

Manual Integrations
APPROVED



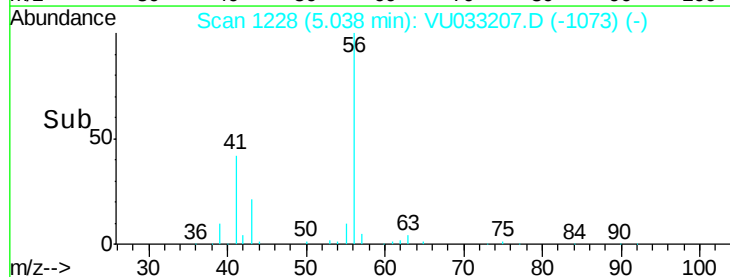
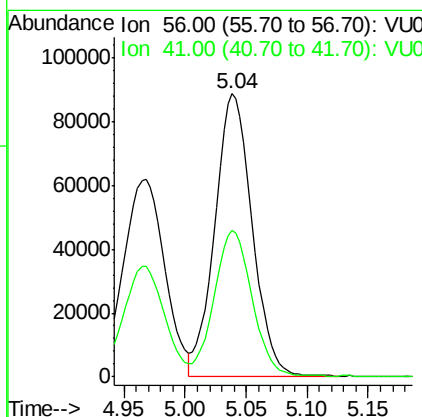
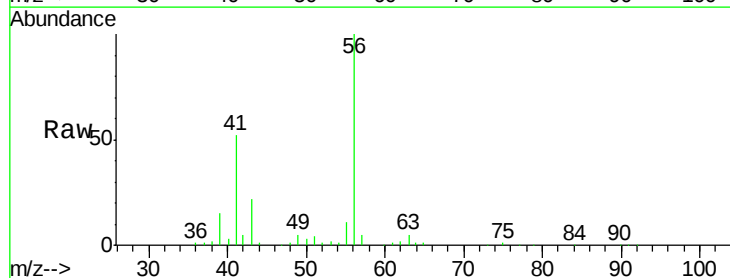
MMDadoda

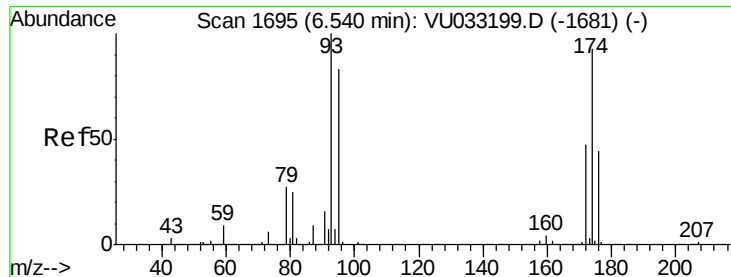
7/16/2019 4:02:40 PM



#42
1-Chlorobutane
Concen: 10.451 ug/l
RT: 5.04 min Scan# 1228
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

Tgt Ion	Ratio	Lower	Upper
56	100		
41	52.2	26.5	79.4



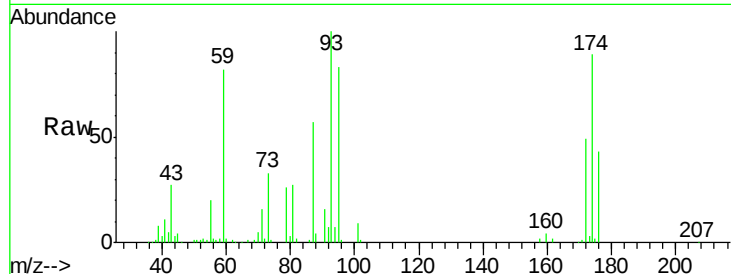


#43
Dibromomethane
Concen: 10.219 ug/l
RT: 6.54 min Scan# 1695
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
93	100		
95	83.4	67.5	101.3
174	90.5	74.2	111.2

Manual Integrations
APPROVED

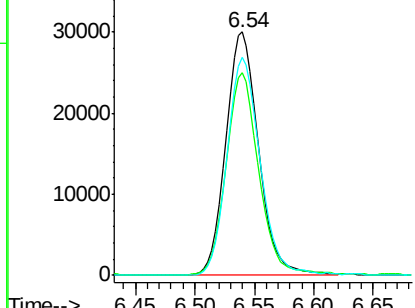


Abundance

Ion 93.00 (92.70 to 93.70): VU033199.D (-1681) (-)

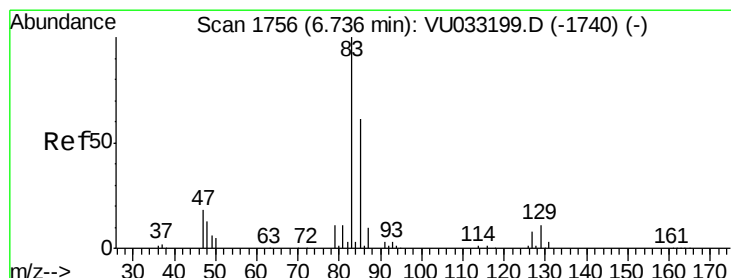
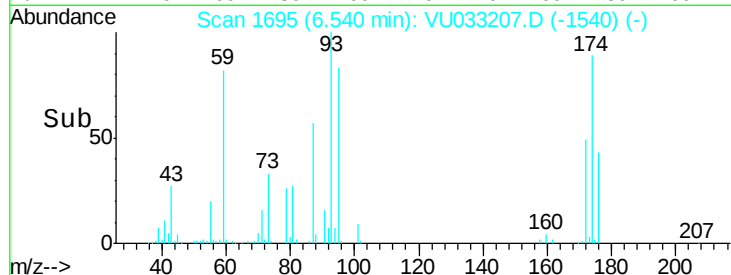
Ion 95.00 (94.70 to 95.70): VU033207.D (-1540) (-)

Ion 174.00 (173.70 to 174.70): VU033207.D (-1540) (-)



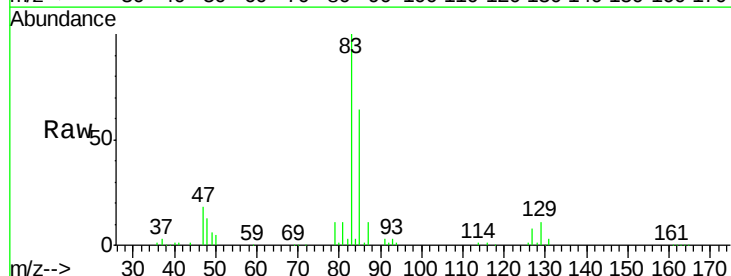
MMDadoda

7/16/2019 4:02:40 PM



#44
Bromodichloromethane
Concen: 9.996 ug/l
RT: 6.74 min Scan# 1756
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.0	49.1	73.7
127	8.4	6.6	9.8

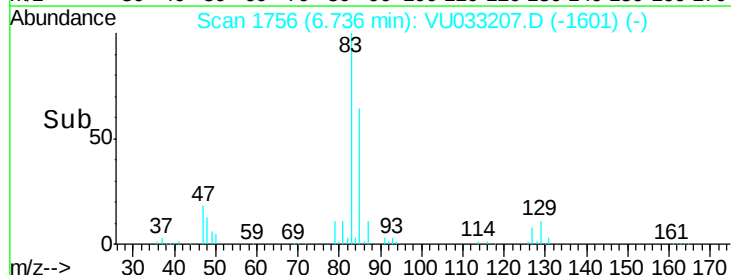
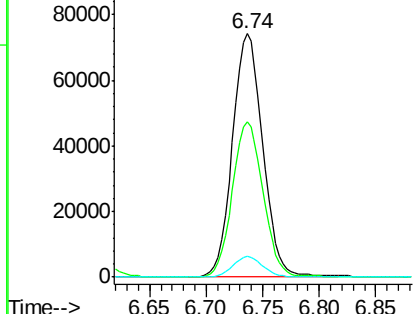


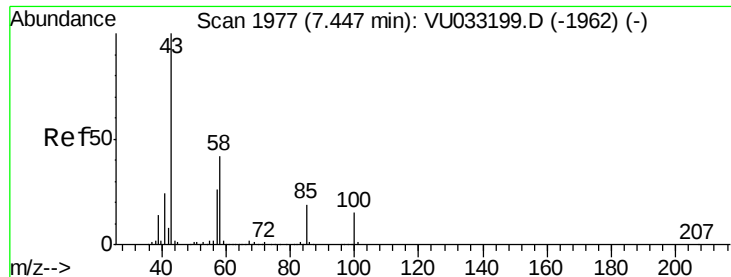
Abundance

Ion 83.00 (82.70 to 83.70): VU033199.D (-1740) (-)

Ion 85.00 (84.70 to 85.70): VU033207.D (-1601) (-)

Ion 127.00 (126.70 to 127.70): VU033207.D (-1601) (-)



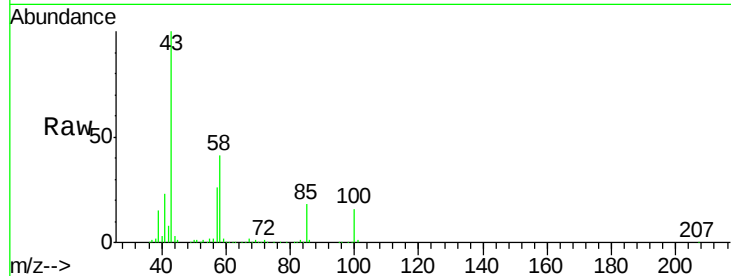


#45
4-Methyl-2-Pentanone
Concen: 55.413 ug/l
RT: 7.45 min Scan# 1977
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

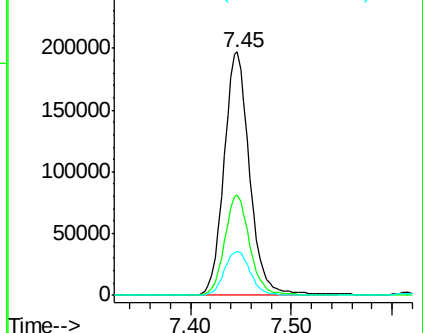
Instrument :
MSVOA_U
ClientSampled :
VSTDCCC010EC

Tot Ion	43	Resp	350496
Ion	Ratio	Lower	Upper
43	100		
58	40.3	20.4	61.2
85	18.3	14.7	22.1

Manual Integrations
APPROVED

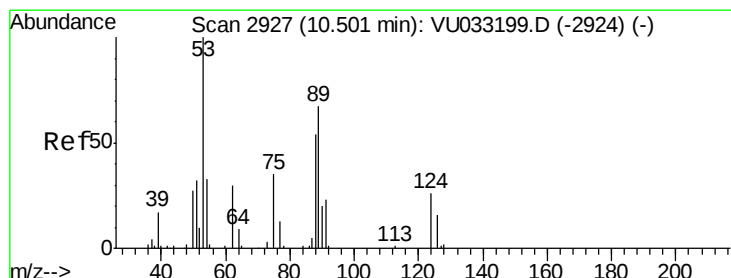
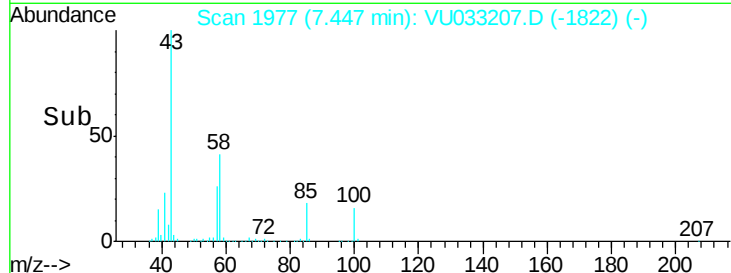


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 85.00 (84.70 to 85.70): VU0



MMDadoda

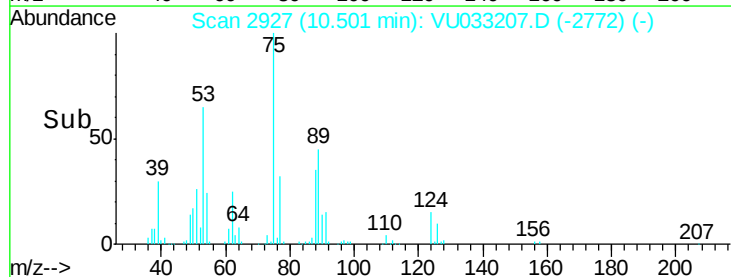
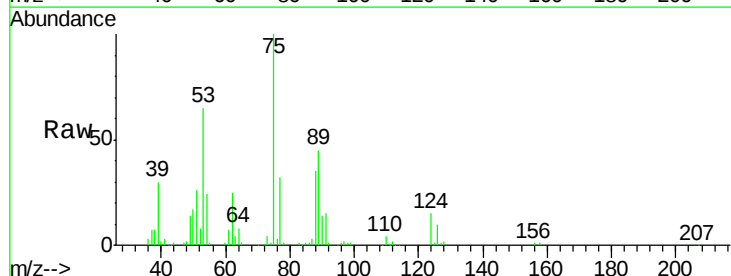
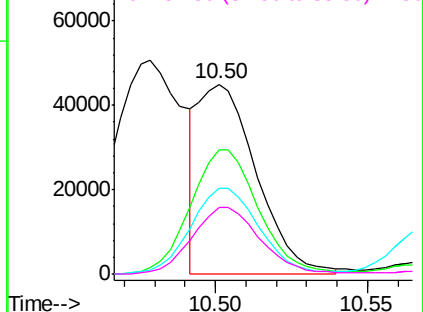
7/16/2019 4:02:40 PM

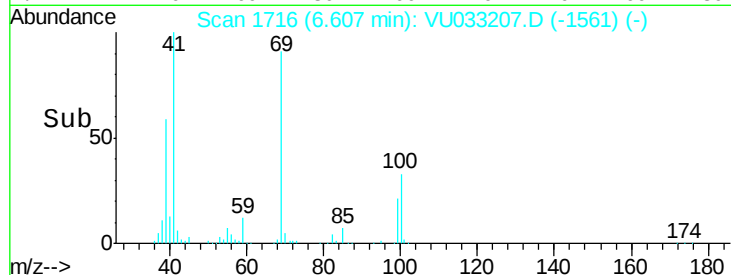
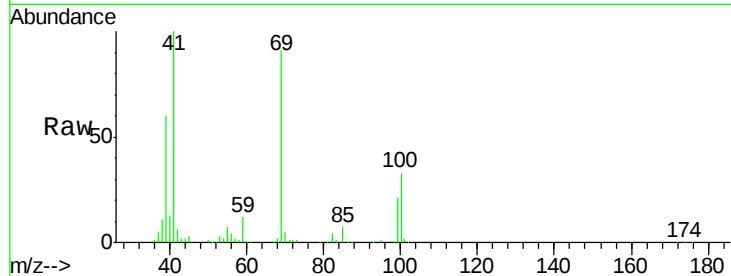
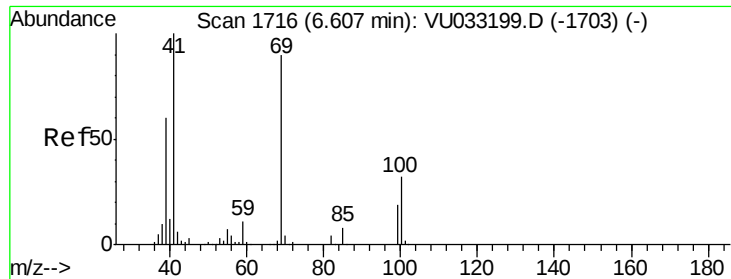


#46
t-1,4-Dichloro-2-butene
Concen: 22.148 ug/l m
RT: 10.50 min Scan# 2927
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

Tgt Ion	75	Resp	59646
Ion	Ratio	Lower	Upper
75	100		
53	77.2	63.8	95.6
89	53.4	44.0	66.0
88	41.3	34.0	51.0

Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 53.00 (52.70 to 53.70): VU0
Ion 88.80 (88.50 to 89.50): VU0
Ion 87.80 (87.50 to 88.50): VU0



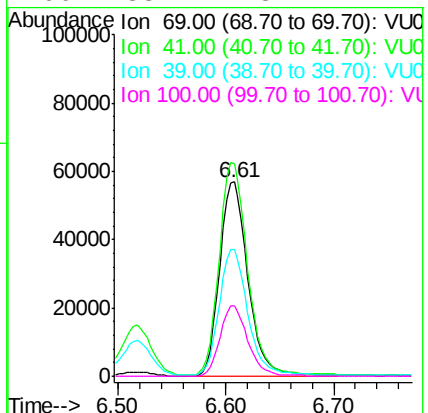


#47
Methyl methacrylate
Concen: 23.040 ug/l
RT: 6.61 min Scan# 1716
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

Tot Ion	Ratio	Lower	Upper
69	100		
41	108.8	0.0	217.0
39	64.9	52.1	78.1
100	35.4	28.2	42.4

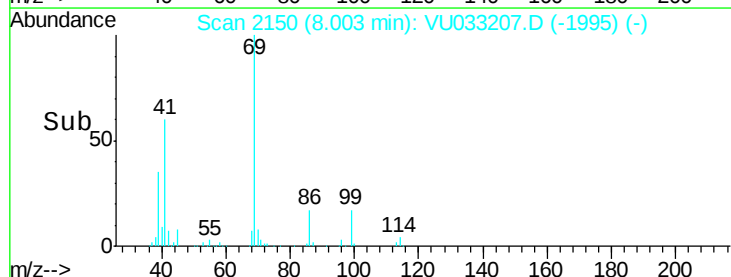
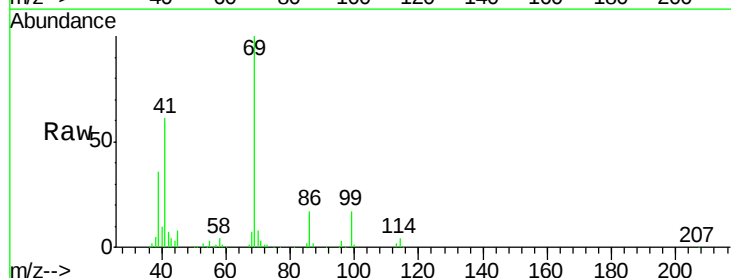
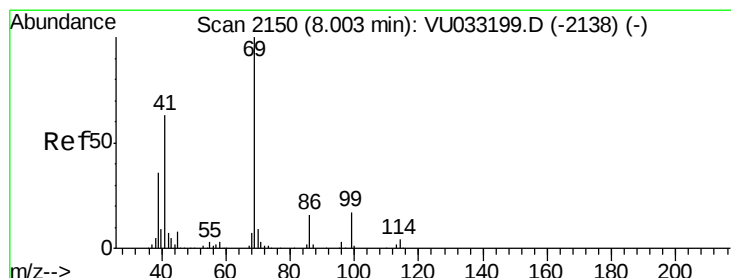
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Manual Integrations
APPROVED



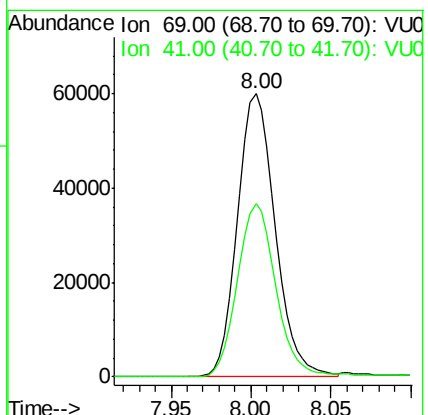
MMDadoda

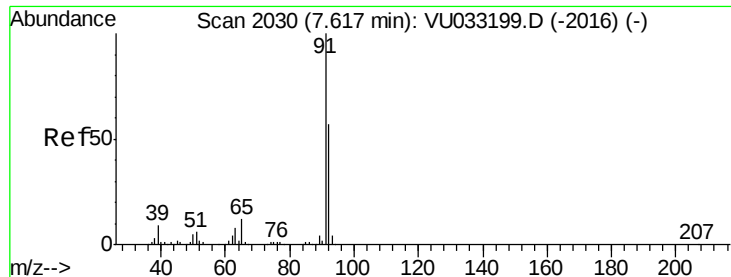
7/16/2019 4:02:40 PM



#48
Ethyl methacrylate
Concen: 11.303 ug/l
RT: 8.00 min Scan# 2150
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

Tgt Ion	Ratio	Lower	Upper
69	100		
41	63.5	31.3	93.8





#49

Toluene

Concen: 10.858 ug/l

RT: 7.62 min Scan# 2030

Delta R.T. -0.00 min

Lab File: VU033207.D

Acq: 12 Jul 2019 00:08

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tot Ion: 92 Resp: 248726

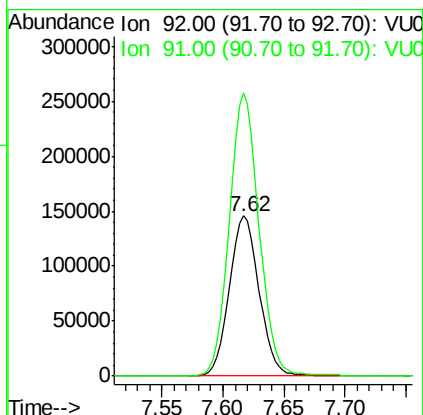
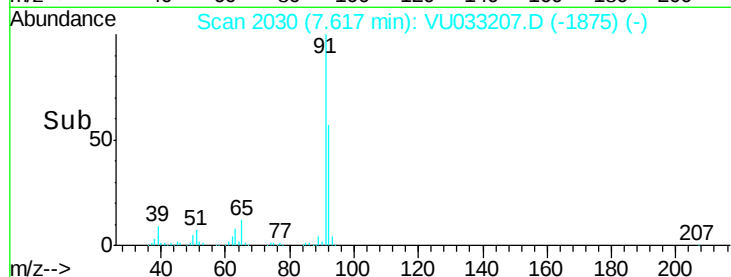
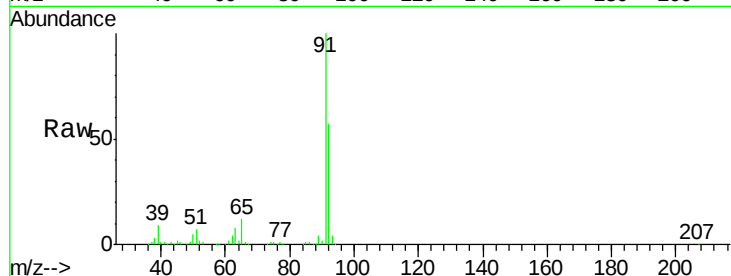
Ion Ratio Lower Upper

92 100

91 176.0 141.2 211.8

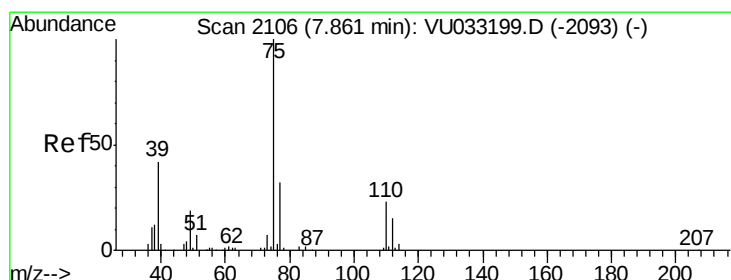
Manual Integrations

APPROVED



MMDadoda

7/16/2019 4:02:40 PM



#50

t-1,3-Dichloropropene

Concen: 10.380 ug/l

RT: 7.86 min Scan# 2106

Delta R.T. -0.00 min

Lab File: VU033207.D

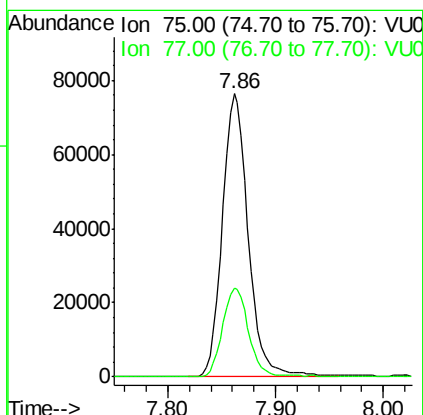
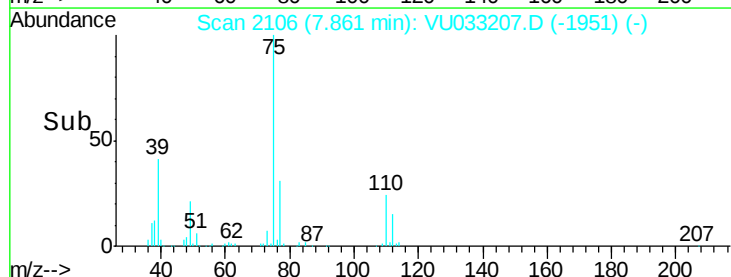
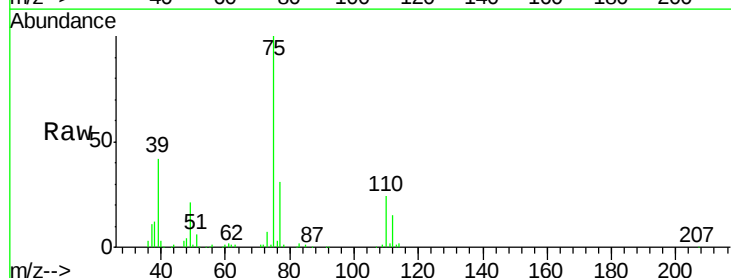
Acq: 12 Jul 2019 00:08

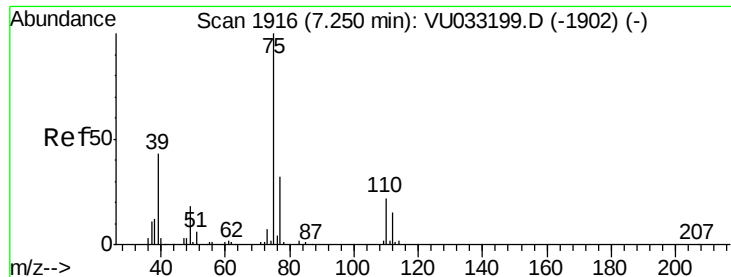
Tgt Ion: 75 Resp: 127468

Ion Ratio Lower Upper

75 100

77 31.2 25.2 37.8





#51

cis-1,3-Dichloropropene

Concen: 10.384 ug/l

RT: 7.25 min Scan# 1916

Delta R.T. -0.00 min

Lab File: VU033207.D

Acq: 12 Jul 2019 00:08

Instrument :

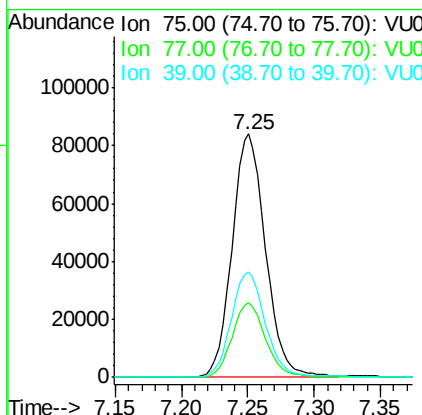
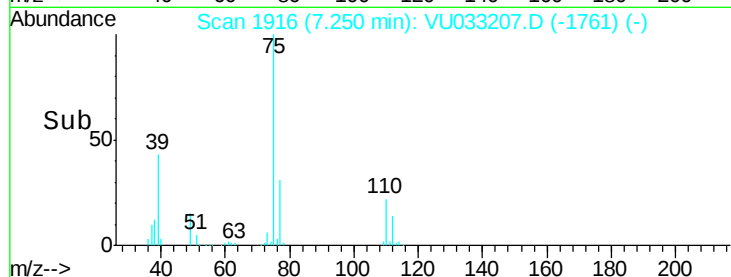
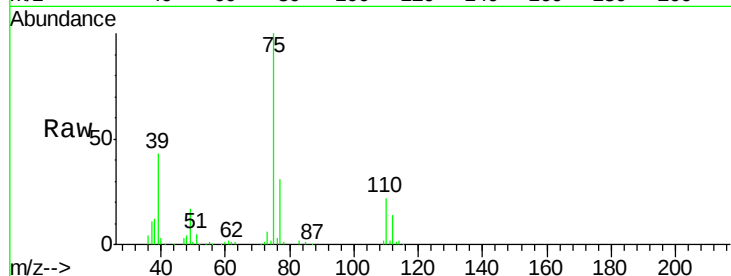
MSVOA_U

ClientSampleId :

VSTDCCC010EC

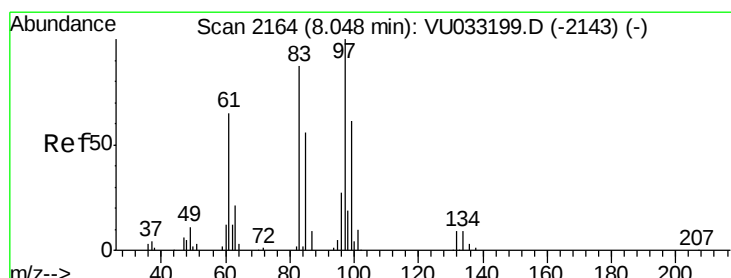
Tot Ion:	75	Resp:	147314
Ion Ratio		Lower	Upper
75	100		
77	30.8	25.4	38.0
39	43.4	34.5	51.7

Manual Integrations
APPROVED



MMDadoda

7/16/2019 4:02:40 PM



#52

1,1,2-Trichloroethane

Concen: 10.135 ug/l

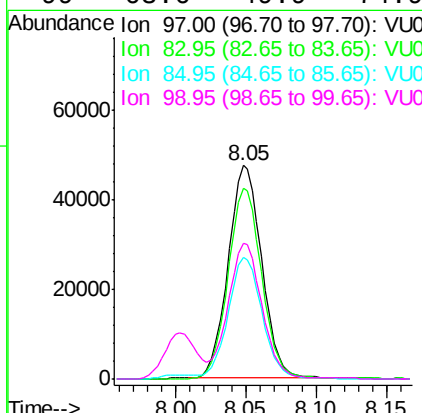
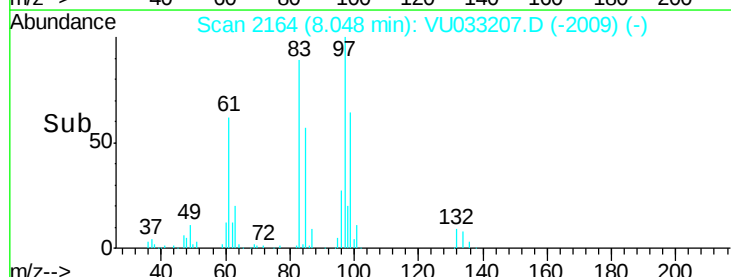
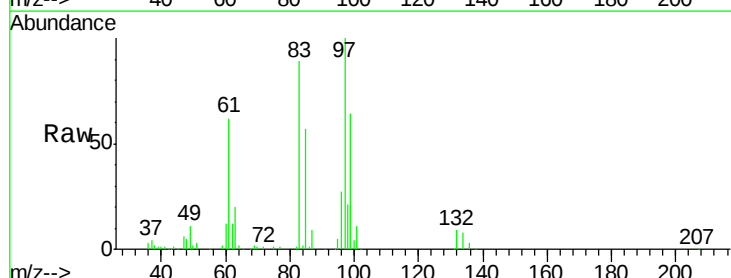
RT: 8.05 min Scan# 2164

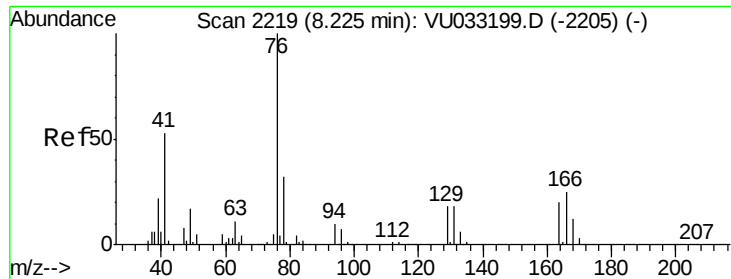
Delta R.T. -0.00 min

Lab File: VU033207.D

Acq: 12 Jul 2019 00:08

Tgt Ion:	97	Resp:	79026
Ion Ratio		Lower	Upper
97	100		
83	89.4	69.9	104.9
85	56.9	45.2	67.8
99	63.6	49.9	74.9



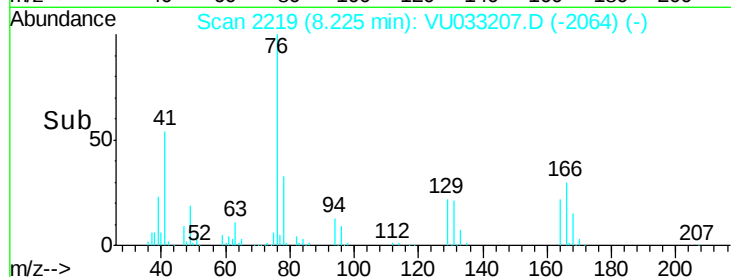
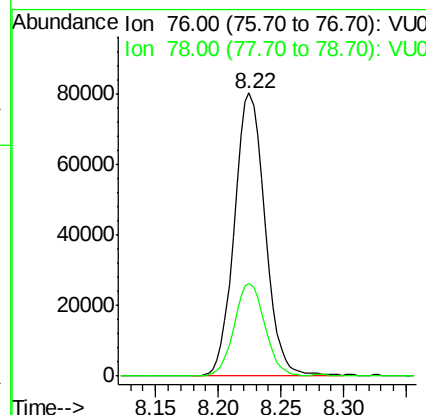
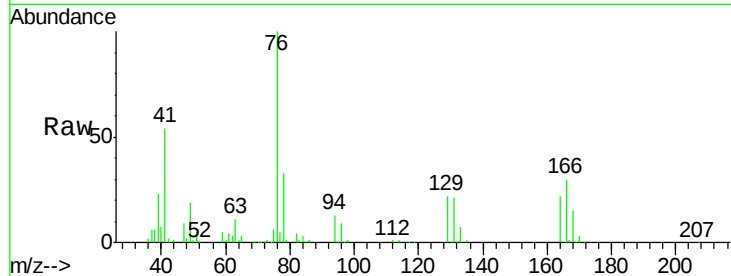


#53
 1,3-Dichloropropane
 Concen: 10.339 ug/l
 RT: 8.22 min Scan# 2219
 Delta R.T. -0.00 min
 Lab File: VU033207.D
 Acq: 12 Jul 2019 00:08

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

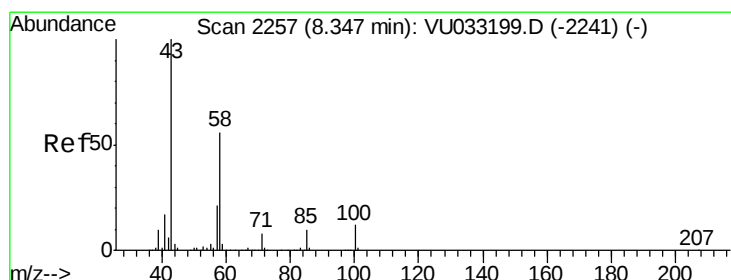
Tot Ion	Ratio	Lower	Upper
76	100		
78	32.7	25.9	38.9

Manual Integrations
 APPROVED



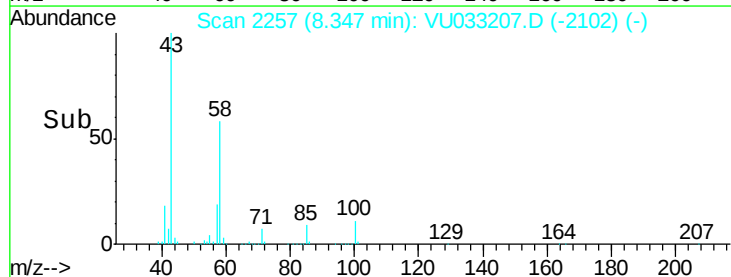
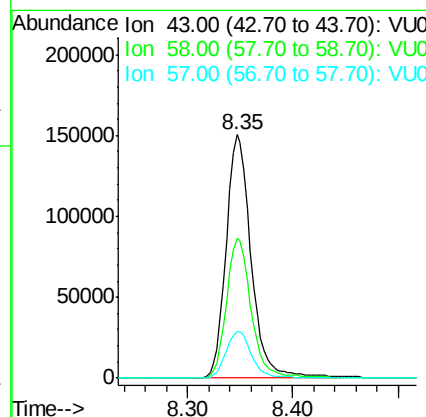
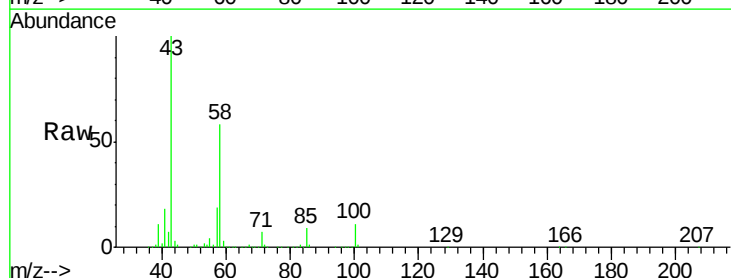
MMDadoda

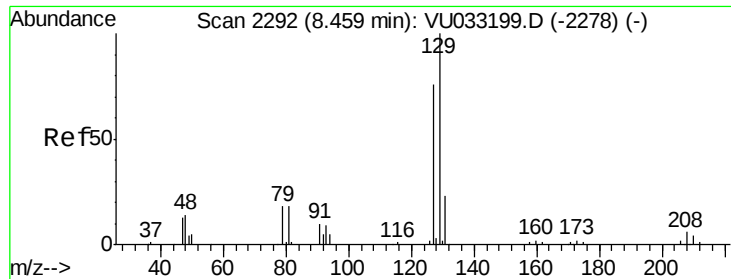
7/16/2019 4:02:40 PM



#54
 2-Hexanone
 Concen: 56.012 ug/l
 RT: 8.35 min Scan# 2257
 Delta R.T. -0.00 min
 Lab File: VU033207.D
 Acq: 12 Jul 2019 00:08

Tgt Ion	Ratio	Lower	Upper
43	100		
58	56.8	35.8	75.8
57	19.4	0.2	40.2





#55

Dibromochloromethane

Concen: 10.493 ug/l

RT: 8.46 min Scan# 2292

Delta R.T. -0.00 min

Lab File: VU033207.D

Acq: 12 Jul 2019 00:08

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

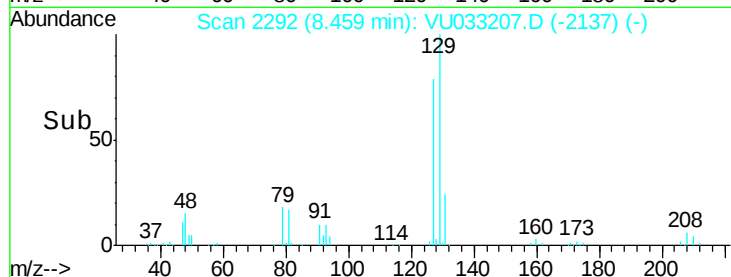
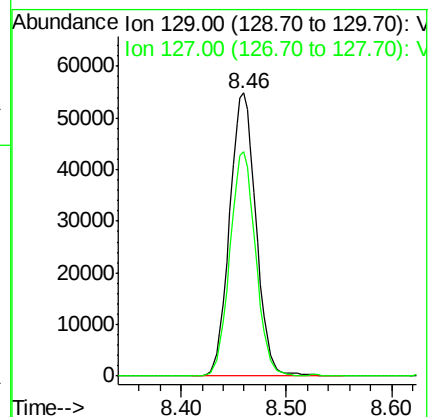
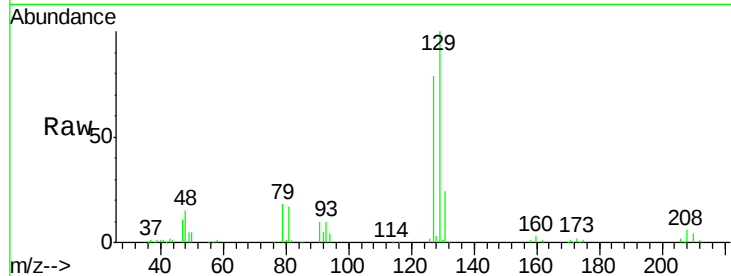
Tot Ion:129 Resp: 94688

Ion Ratio Lower Upper

129 100

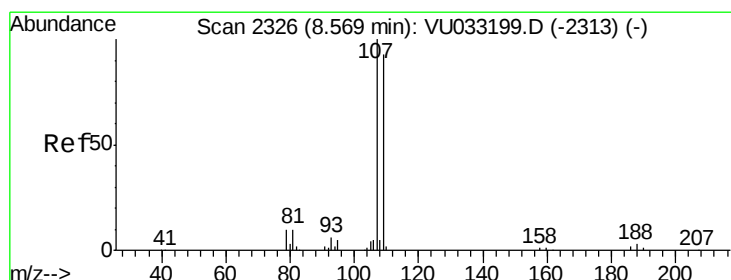
127 77.0 62.9 94.3

Manual Integrations
APPROVED



MMDadoda

7/16/2019 4:02:40 PM



#56

1,2-Dibromoethane

Concen: 10.527 ug/l

RT: 8.57 min Scan# 2326

Delta R.T. -0.00 min

Lab File: VU033207.D

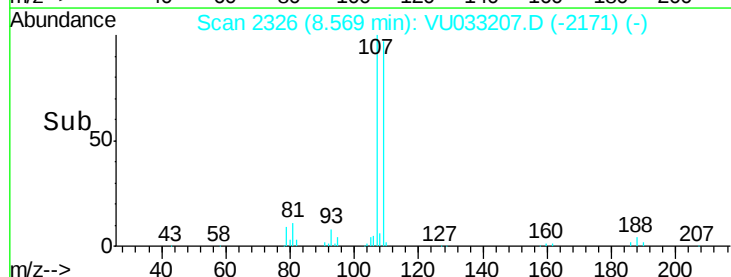
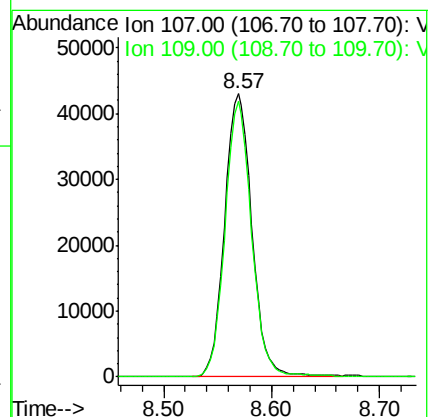
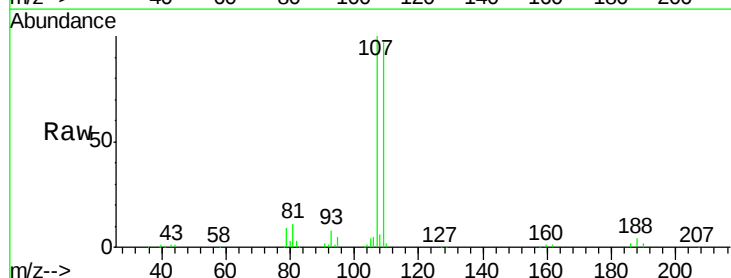
Acq: 12 Jul 2019 00:08

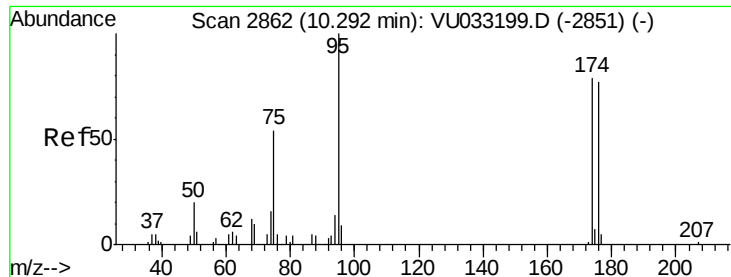
Tgt Ion:107 Resp: 75936

Ion Ratio Lower Upper

107 100

109 94.6 0.0 189.2



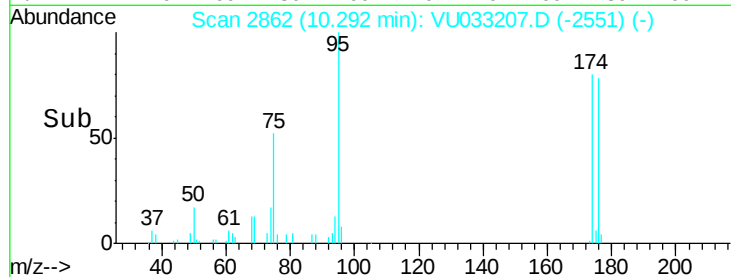
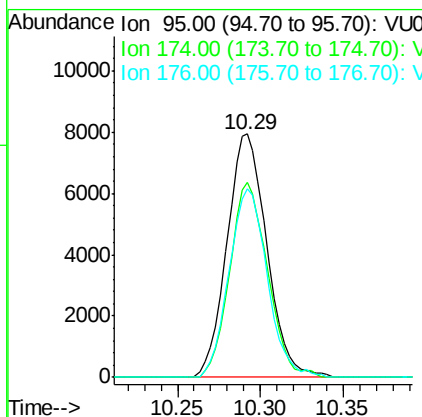
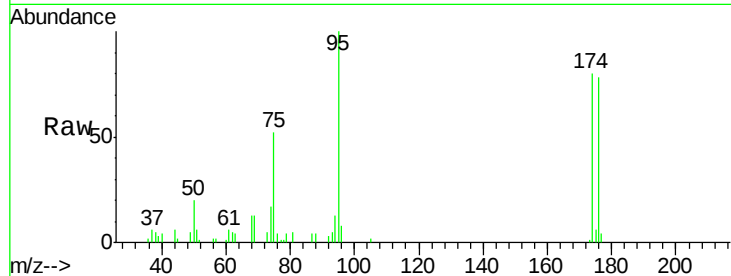


#57
4-Bromofluorobenzene
Concen: 1.066 ug/l
RT: 10.29 min Scan# 2862
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

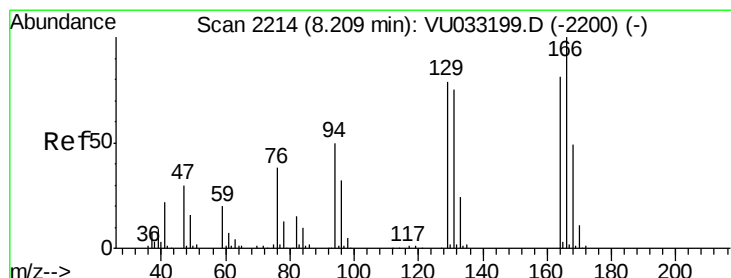
Tot Ion:	95	Resp:	13264
Ion	Ratio	Lower	Upper
95	100		
174	76.3	63.8	95.8
176	74.3	64.5	96.7

Manual Integrations
APPROVED



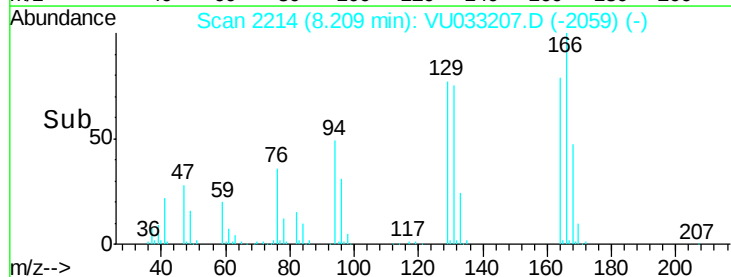
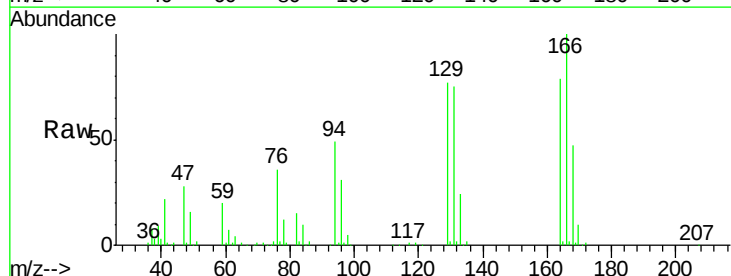
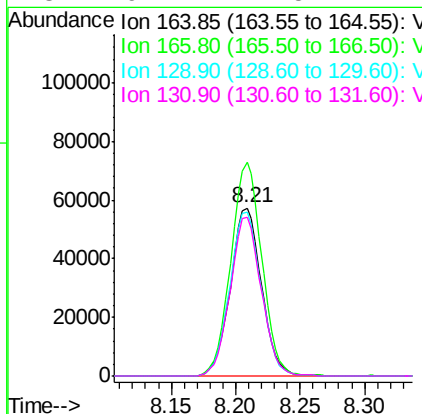
MMDadoda

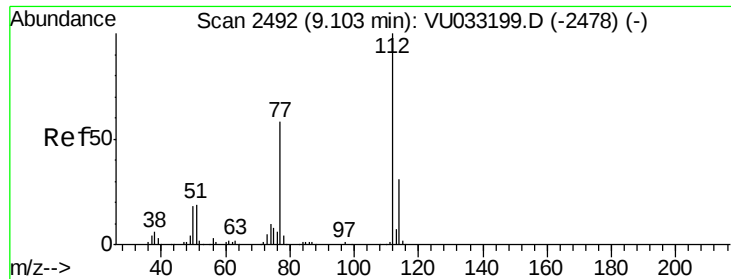
7/16/2019 4:02:40 PM



#58
Tetrachloroethene
Concen: 10.313 ug/l
RT: 8.21 min Scan# 2214
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

Tgt Ion:	164	Resp:	95665
Ion	Ratio	Lower	Upper
164	100		
166	126.9	99.3	148.9
129	97.2	78.0	117.0
131	94.7	74.5	111.7



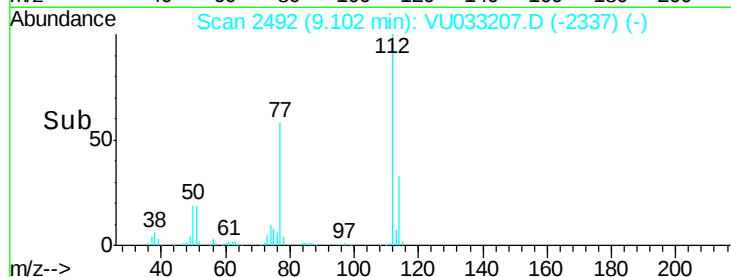
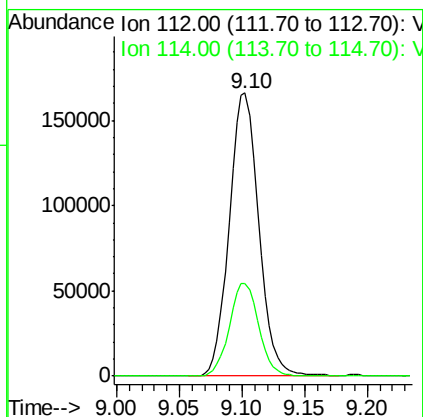
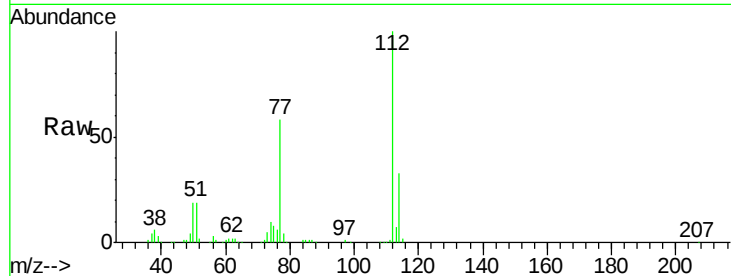


#59
Chlorobenzene
Concen: 10.579 ug/l
RT: 9.10 min Scan# 2492
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

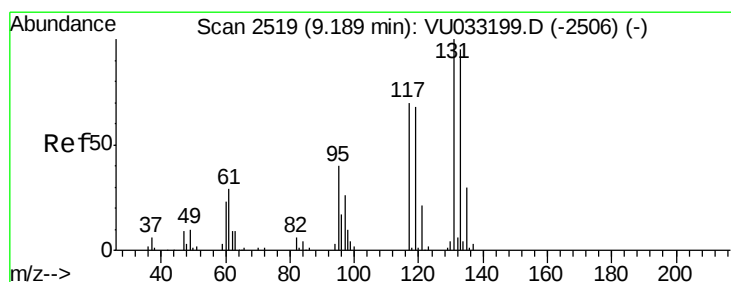
Tot Ion	Ratio	Lower	Upper
112	100		
114	33.0	25.1	37.7

Manual Integrations
APPROVED



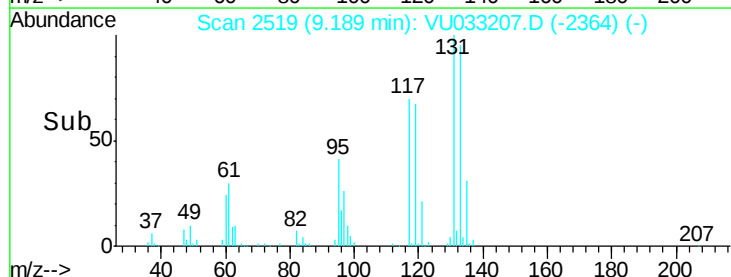
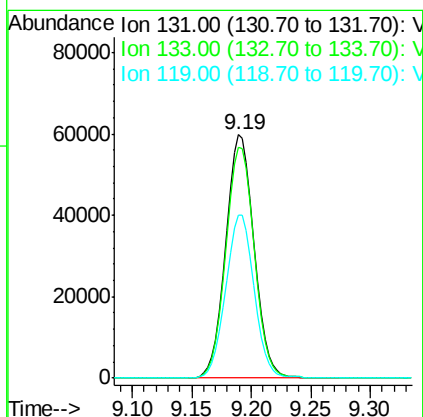
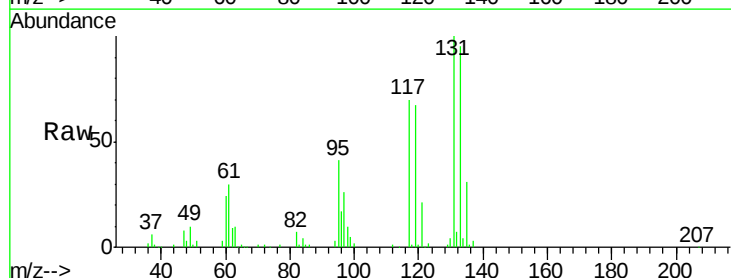
MMDadoda

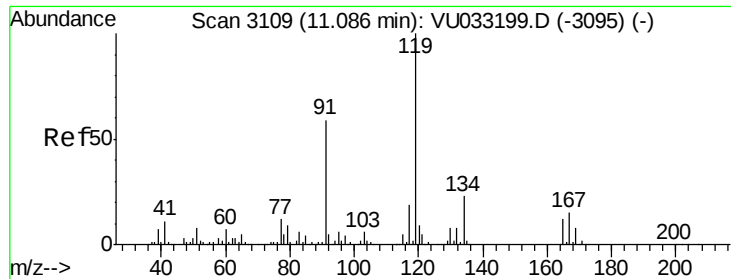
7/16/2019 4:02:40 PM



#60
1,1,1,2-Tetrachloroethane
Concen: 10.439 ug/l
RT: 9.19 min Scan# 2519
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.4	76.7	115.1
119	67.2	54.2	81.2





#61

Pentachloroethane

Concen: 10.367 ug/l

RT: 11.09 min Scan# 3109

Delta R.T. -0.00 min

Lab File: VU033207.D

Acq: 12 Jul 2019 00:08

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

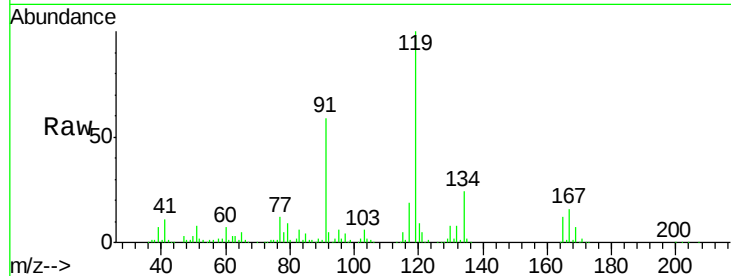
Tot Ion:117 Resp: 77304

Ion Ratio Lower Upper

117 100

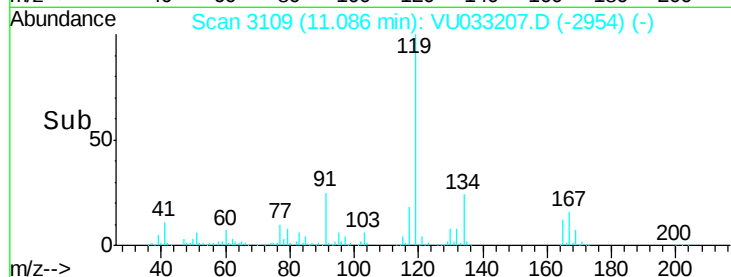
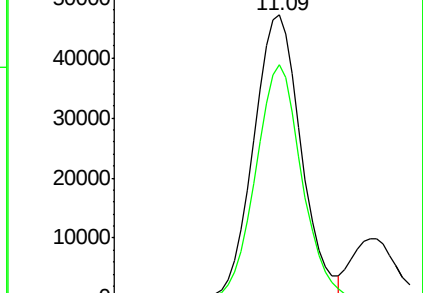
167 80.0 63.6 95.4

Manual Integrations
APPROVED



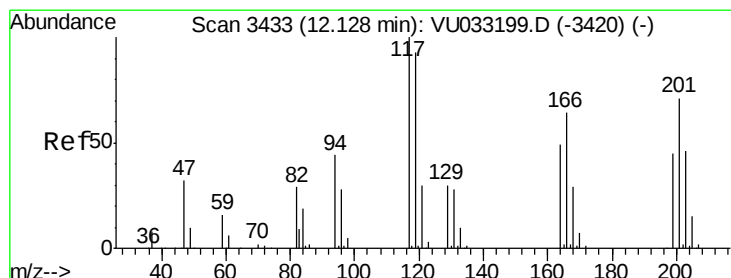
Abundance Ion 116.80 (116.50 to 117.50): V

Ion 166.70 (166.40 to 167.40): V



MMDadoda

7/16/2019 4:02:40 PM



#62

Hexachloroethane

Concen: 10.706 ug/l

RT: 12.13 min Scan# 3433

Delta R.T. -0.00 min

Lab File: VU033207.D

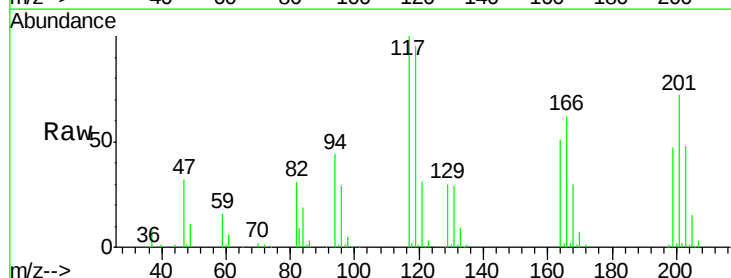
Acq: 12 Jul 2019 00:08

Tgt Ion:117 Resp: 77513

Ion Ratio Lower Upper

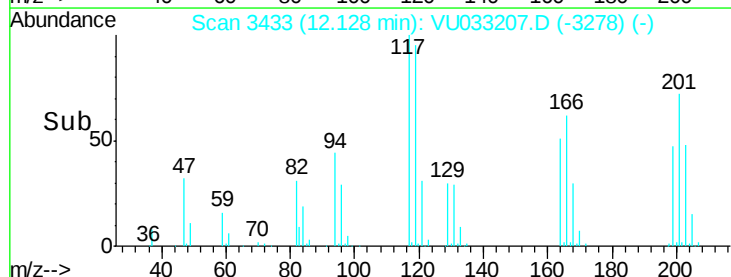
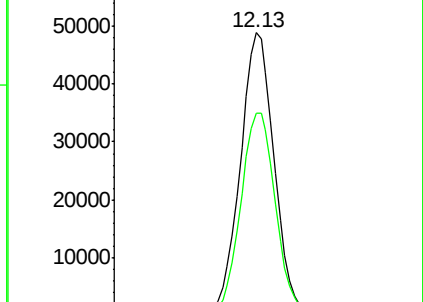
117 100

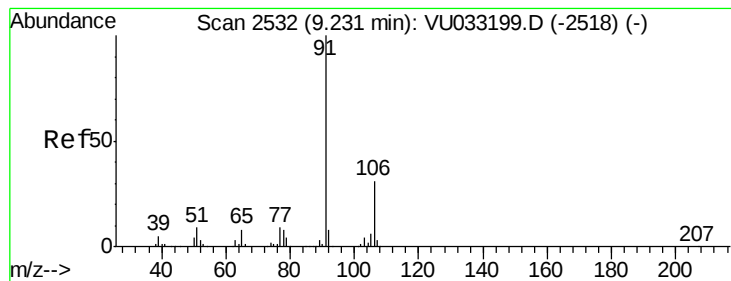
201 73.5 58.5 87.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.60 (200.30 to 201.30): V





#63

Ethyl Benzene

Concen: 11.415 ug/l

RT: 9.23 min Scan# 2532

Delta R.T. -0.00 min

Lab File: VU033207.D

Acq: 12 Jul 2019 00:08

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 480488

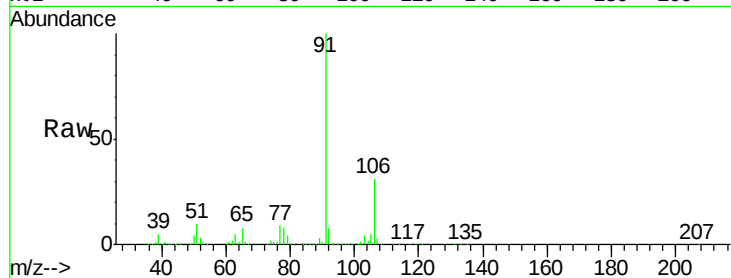
Ion Ratio Lower Upper

91 100

106 30.8 24.9 37.3

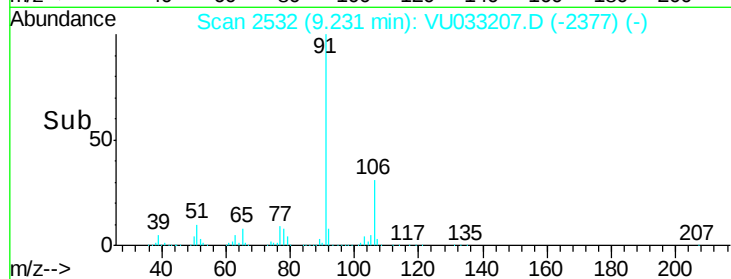
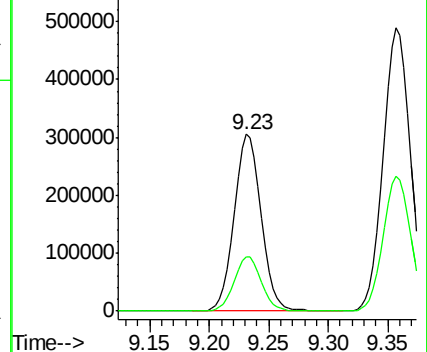
Manual Integrations

APPROVED



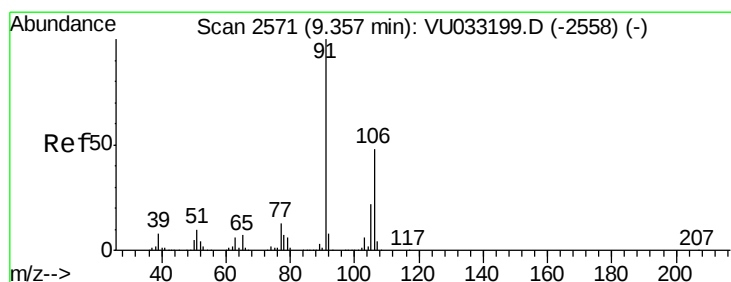
Abundance Ion 91.00 (90.70 to 91.70): VU033207.D (-2377) (-)

Ion 106.00 (105.70 to 106.70): VU033207.D (-2377) (-)



MMDadoda

7/16/2019 4:02:40 PM



#64

m/p-Xylenes

Concen: 22.959 ug/l

RT: 9.36 min Scan# 2571

Delta R.T. -0.00 min

Lab File: VU033207.D

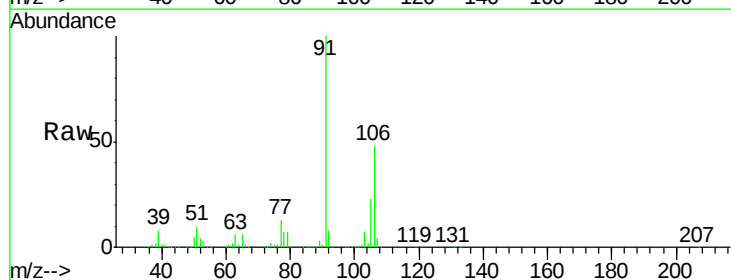
Acq: 12 Jul 2019 00:08

Tgt Ion: 106 Resp: 377627

Ion Ratio Lower Upper

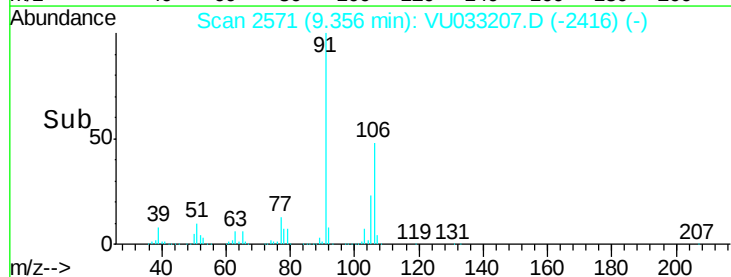
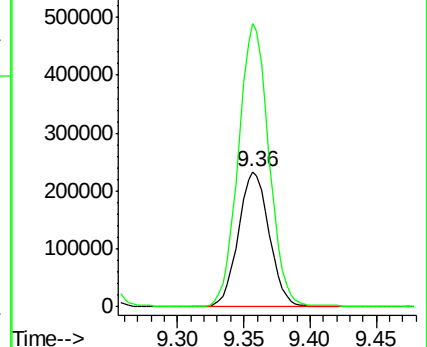
106 100

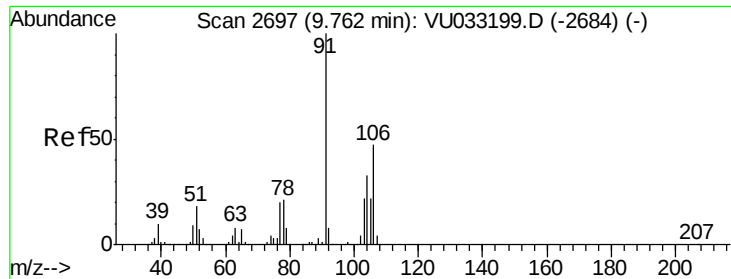
91 207.0 164.8 247.2



Abundance Ion 106.00 (105.70 to 106.70): VU033207.D (-2416) (-)

Ion 91.00 (90.70 to 91.70): VU033207.D (-2416) (-)



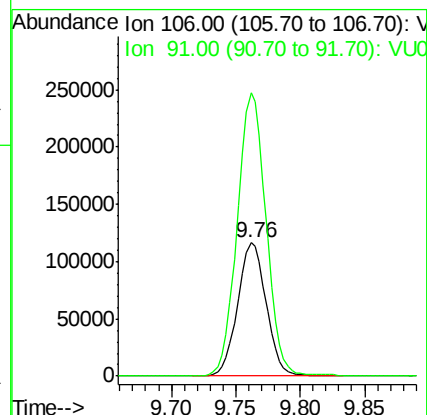
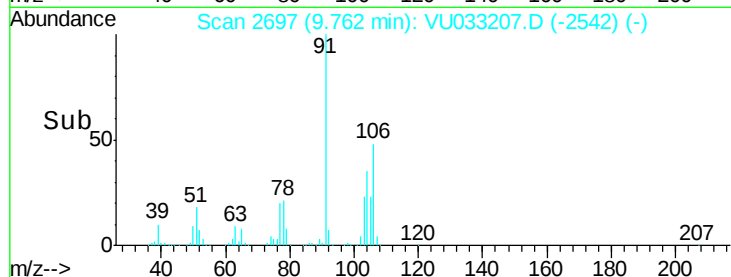
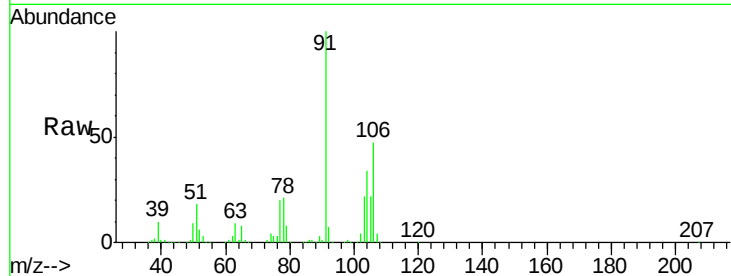


#65
o-Xylene
Concen: 11.240 ug/l
RT: 9.76 min Scan# 2697
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

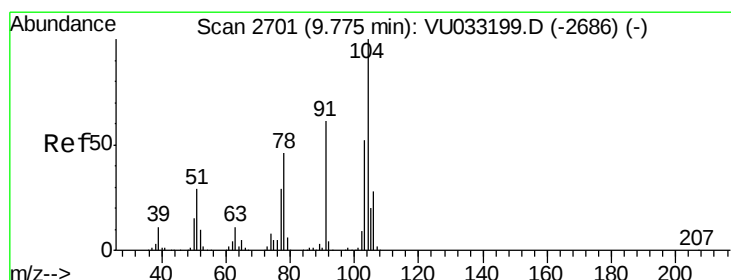
Tot Ion	Ratio	Lower	Upper
106	100		
91	214.4	108.6	325.8

Manual Integrations
APPROVED



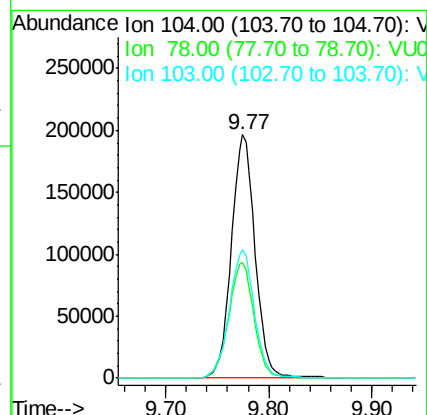
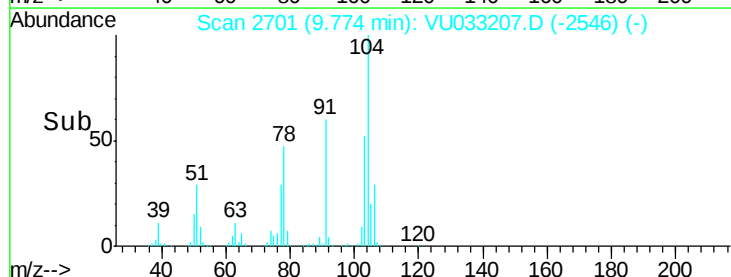
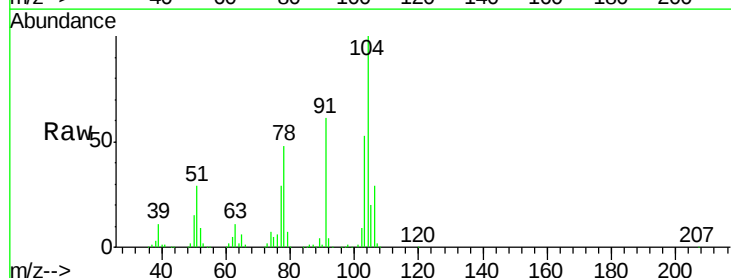
MMDadoda

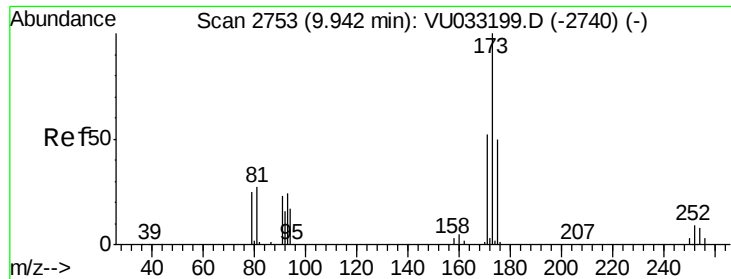
7/16/2019 4:02:40 PM



#66
Styrene
Concen: 11.682 ug/l
RT: 9.77 min Scan# 2701
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

Tgt Ion	Ratio	Lower	Upper
104	100		
78	50.5	40.4	60.6
103	55.6	44.3	66.5





#67

Bromoform

Concen: 10.633 ug/l

RT: 9.94 min Scan# 2753

Delta R.T. -0.00 min

Lab File: VU033207.D

Acq: 12 Jul 2019 00:08

Instrument :

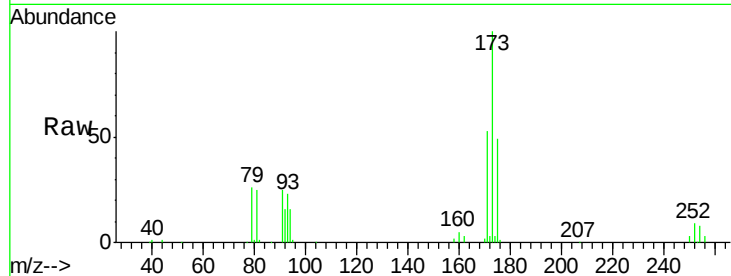
MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.5	39.4	59.0
254	8.2	6.9	10.3

Manual Integrations
APPROVED

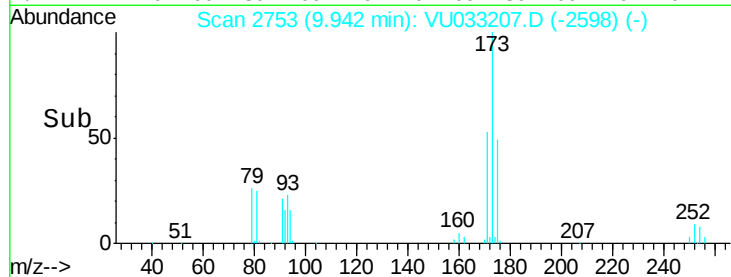
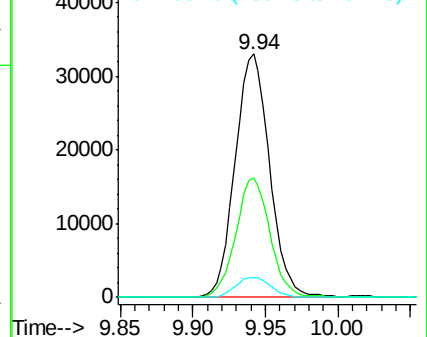


Abundance

Ion 172.90 (172.60 to 173.60): V

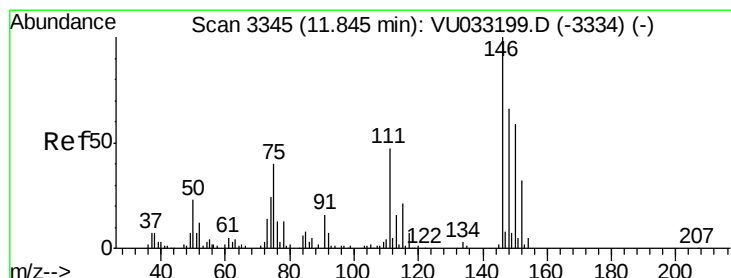
Ion 174.90 (174.60 to 175.60): V

Ion 253.75 (253.45 to 254.45): V



MMDadoda

7/16/2019 4:02:40 PM



#68

1,2-Dichlorobenzene-d4

Concen: 1.039 ug/l

RT: 11.85 min Scan# 3345

Delta R.T. -0.00 min

Lab File: VU033207.D

Acq: 12 Jul 2019 00:08

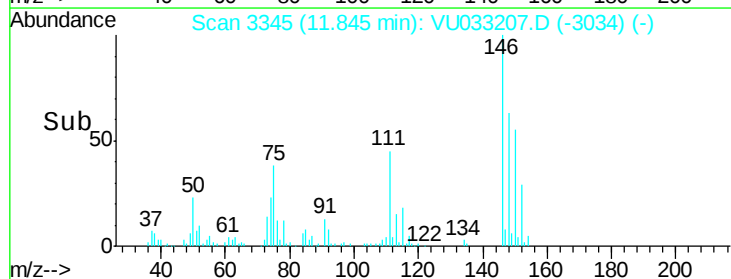
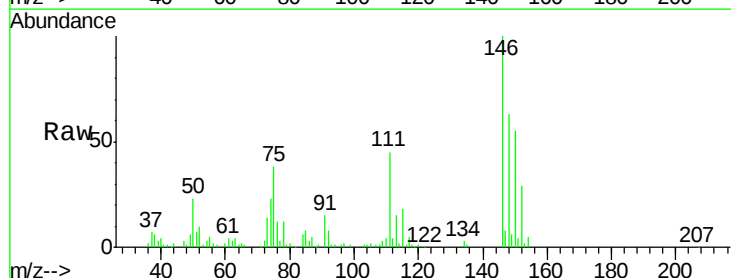
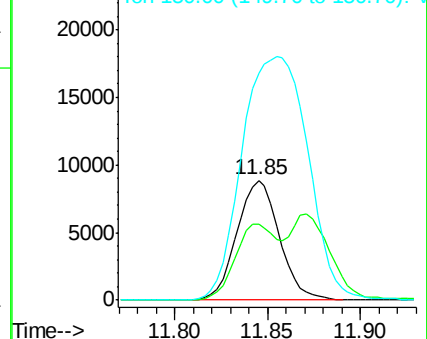
Tgt Ion	Ratio	Lower	Upper
152	100		
115	64.3	0.0	131.0
150	318.2	0.0	634.4

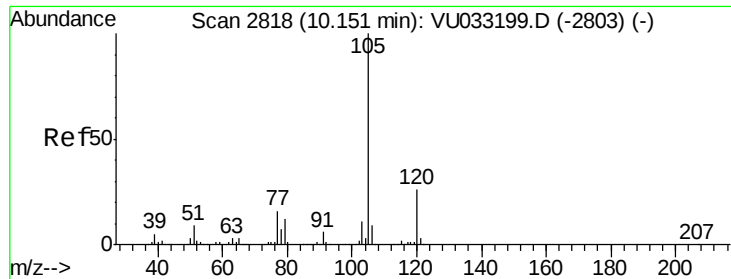
Abundance

Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#69

Isopropylbenzene

Concen: 11.378 ug/l

RT: 10.15 min Scan# 2818

Delta R.T. -0.00 min

Lab File: VU033207.D

Acq: 12 Jul 2019 00:08

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

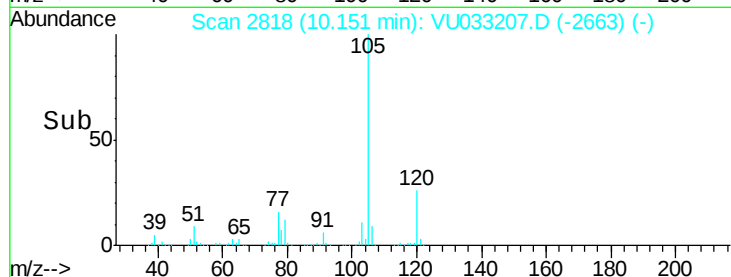
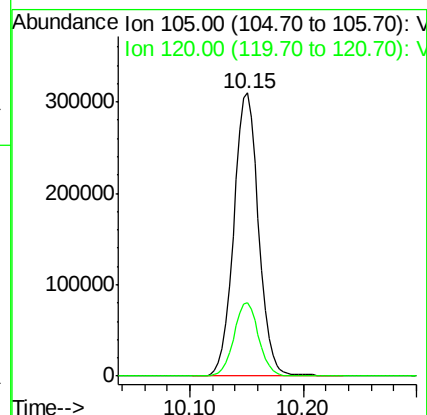
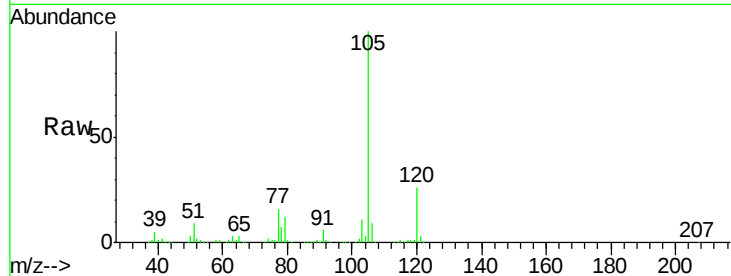
Tot Ion: 105 Resp: 472946

Ion Ratio Lower Upper

105 100

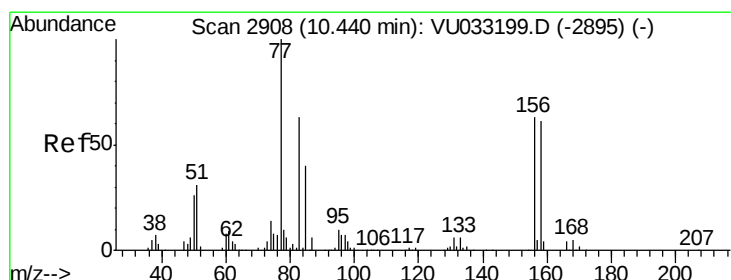
120 26.0 13.2 39.6

Manual Integrations
APPROVED



MMDadoda

7/16/2019 4:02:40 PM



#70

1,1,2,2-Tetrachloroethane

Concen: 10.445 ug/l

RT: 10.44 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VU033207.D

Acq: 12 Jul 2019 00:08

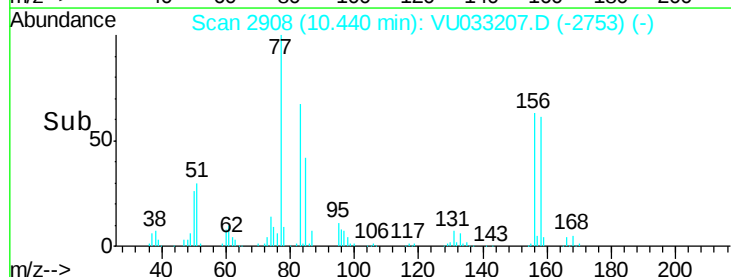
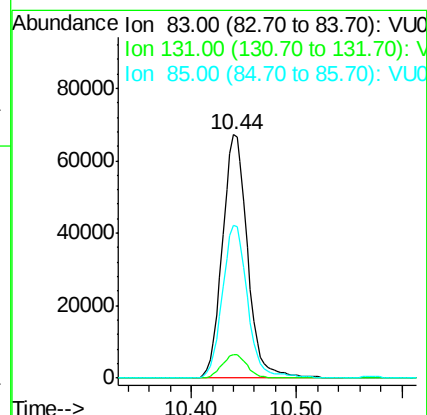
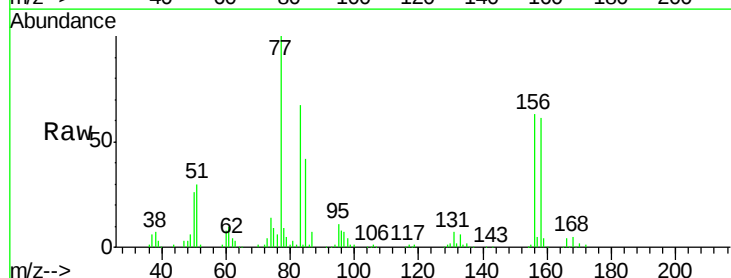
Tgt Ion: 83 Resp: 110869

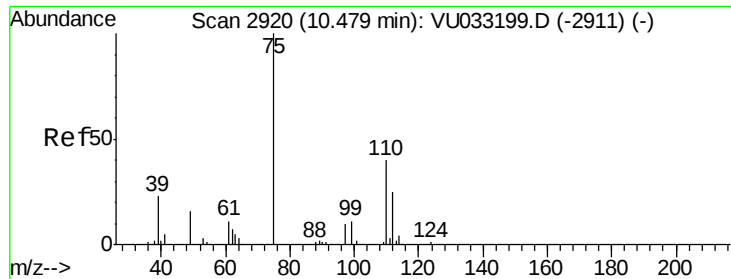
Ion Ratio Lower Upper

83 100

131 9.7 8.0 12.0

85 63.2 50.6 76.0



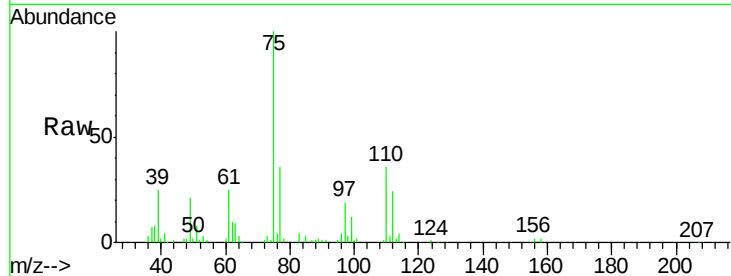


#71
1,2,3-Trichloropropane
Concen: 10.279 ug/l m
RT: 10.48 min Scan# 2920
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

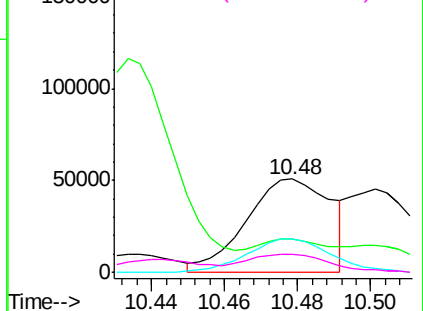
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
75	100		
77	8.8	0.0	15.4
110	35.2	0.0	72.2
97	19.1	0.0	37.2

Manual Integrations
APPROVED

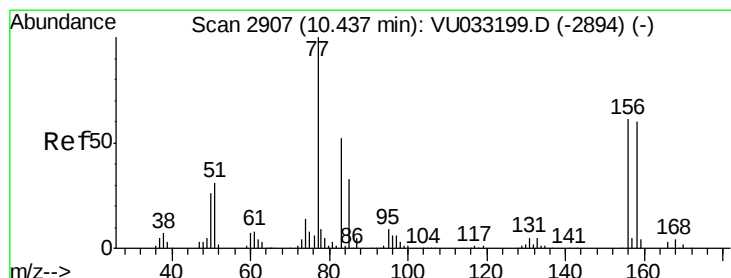
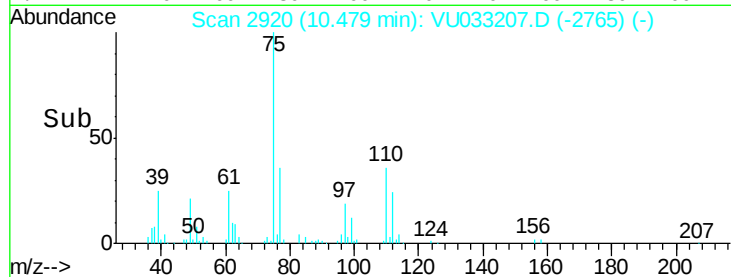


Abundance Ion 75.00 (74.70 to 75.70): VU033199.D (-2911) (-)
Ion 77.00 (76.70 to 77.70): VU033199.D (-2911) (-)
Ion 110.00 (109.70 to 110.70): VU033199.D (-2911) (-)
Ion 97.00 (96.70 to 97.70): VU033199.D (-2911) (-)



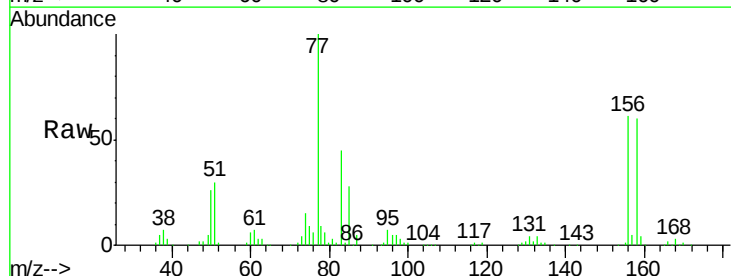
MMDadoda

7/16/2019 4:02:40 PM

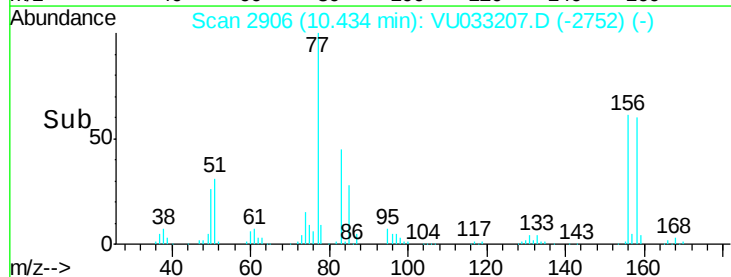
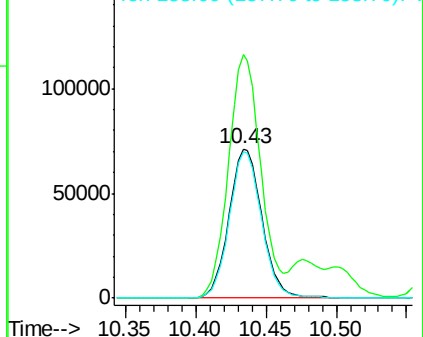


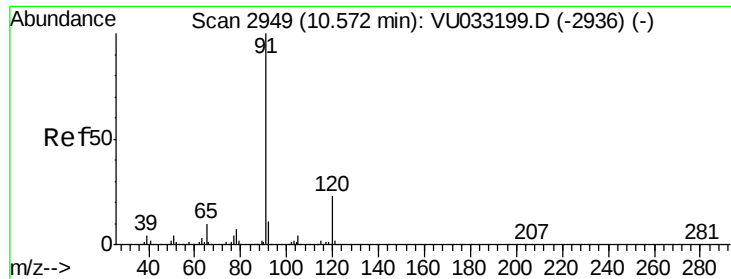
#72
Bromobenzene
Concen: 10.833 ug/l
RT: 10.43 min Scan# 2906
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

Tgt Ion	Ratio	Lower	Upper
156	100		
77	159.8	0.0	326.0
158	96.1	0.0	193.2



Abundance Ion 156.00 (155.70 to 156.70): VU033199.D (-2894) (-)
Ion 77.00 (76.70 to 77.70): VU033199.D (-2894) (-)
Ion 158.00 (157.70 to 158.70): VU033199.D (-2894) (-)





#73

n-propylbenzene

Concen: 11.674 ug/l

RT: 10.57 min Scan# 2949

Delta R.T. -0.00 min

Lab File: VU033207.D

Acq: 12 Jul 2019 00:08

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

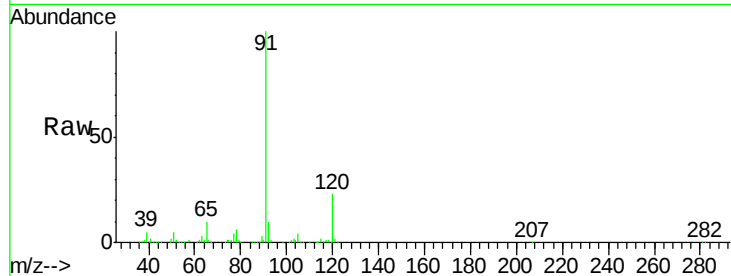
Tot Ion:120 Resp: 137454

Ion Ratio Lower Upper

120 100

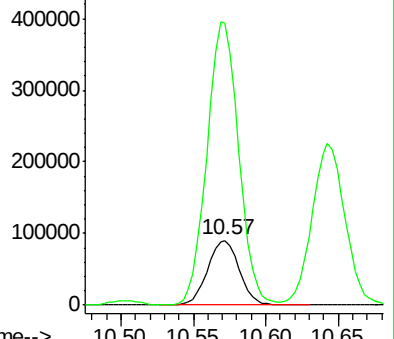
91 435.3 349.0 523.4

Manual Integrations
APPROVED



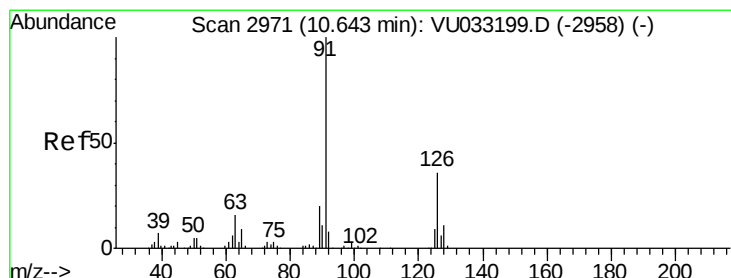
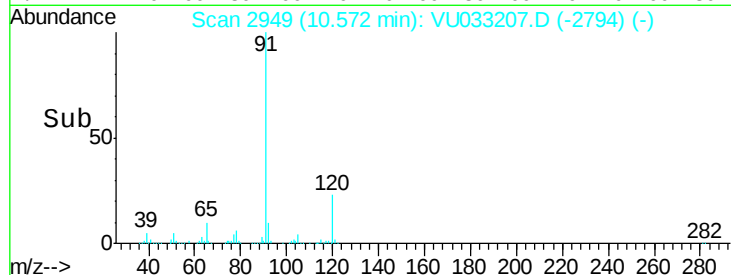
Abundance Ion 120.00 (119.70 to 120.70): V

Ion 91.00 (90.70 to 91.70): VU0



MMDadoda

7/16/2019 4:02:40 PM



#74

2-Chlorotoluene

Concen: 11.173 ug/l

RT: 10.64 min Scan# 2971

Delta R.T. -0.00 min

Lab File: VU033207.D

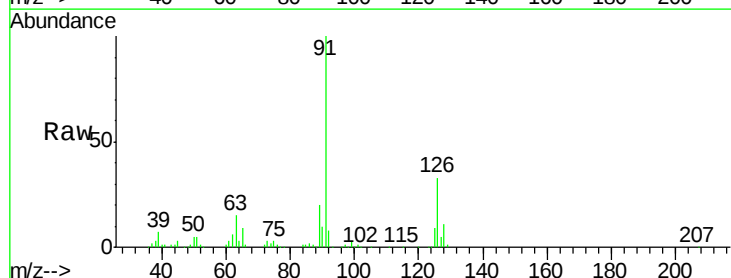
Acq: 12 Jul 2019 00:08

Tgt Ion:126 Resp: 118729

Ion Ratio Lower Upper

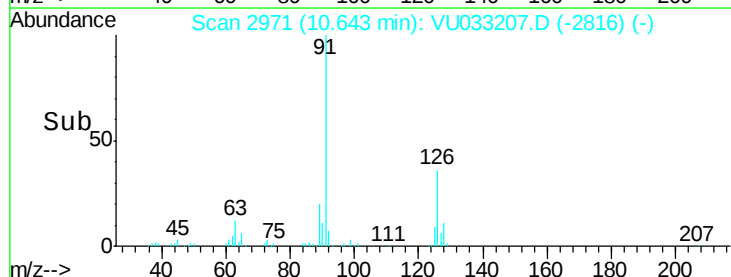
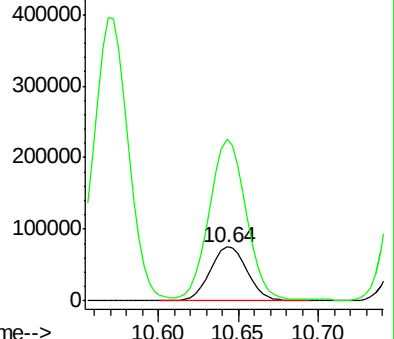
126 100

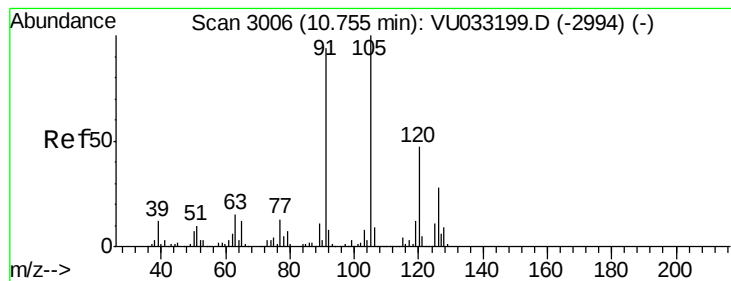
91 294.2 0.0 592.2



Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU0





#75

1,3,5-Trimethylbenzene

Concen: 11.871 ug/l

RT: 10.76 min Scan# 3006

Delta R.T. -0.00 min

Lab File: VU033207.D

Acq: 12 Jul 2019 00:08

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

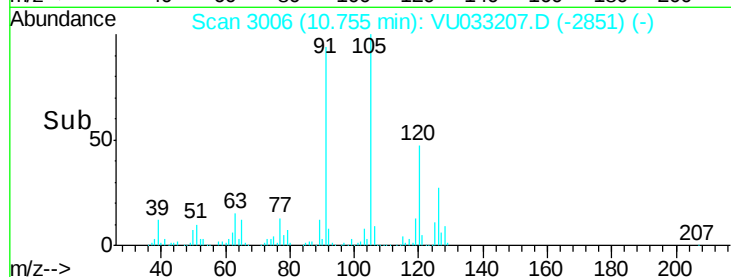
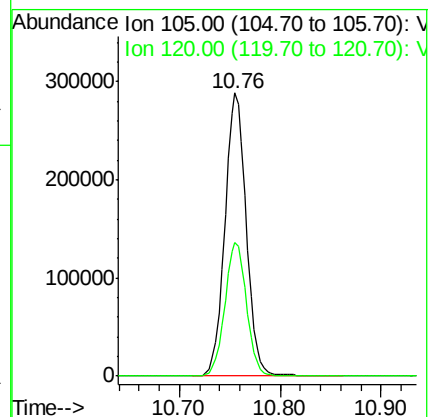
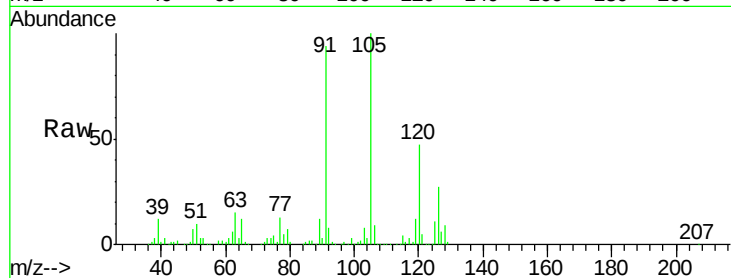
Tot Ion:105 Resp: 427139

Ion Ratio Lower Upper

105 100

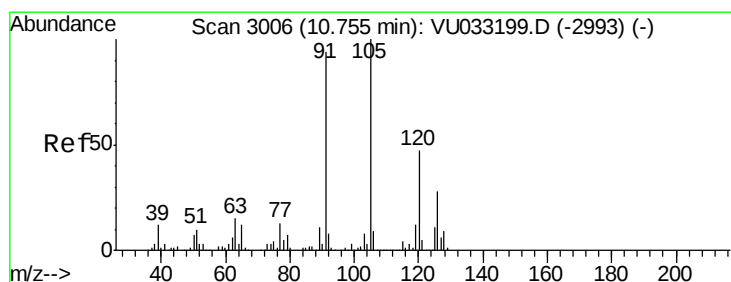
120 48.1 37.8 56.8

Manual Integrations
APPROVED



MMDadoda

7/16/2019 4:02:40 PM



#76

4-Chlorotoluene

Concen: 11.145 ug/l

RT: 10.76 min Scan# 3006

Delta R.T. -0.00 min

Lab File: VU033207.D

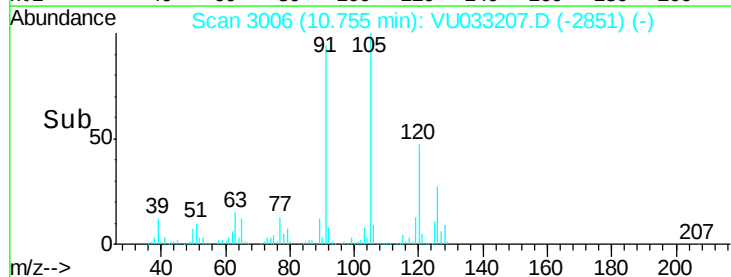
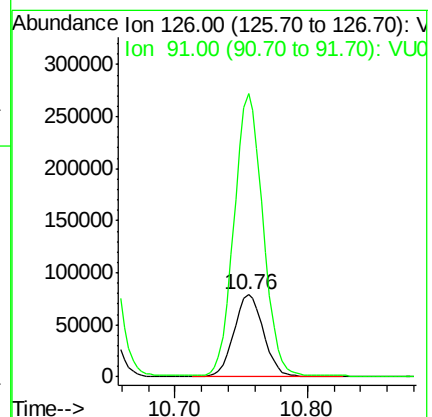
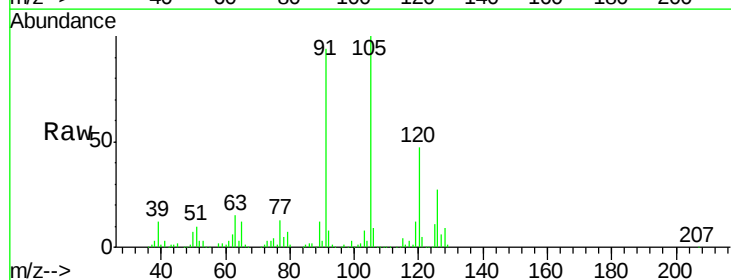
Acq: 12 Jul 2019 00:08

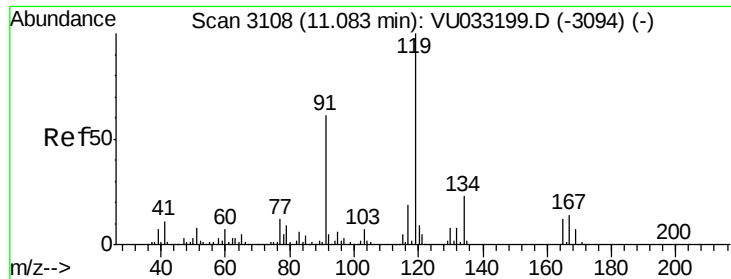
Tgt Ion:126 Resp: 120916

Ion Ratio Lower Upper

126 100

91 343.9 0.0 663.4



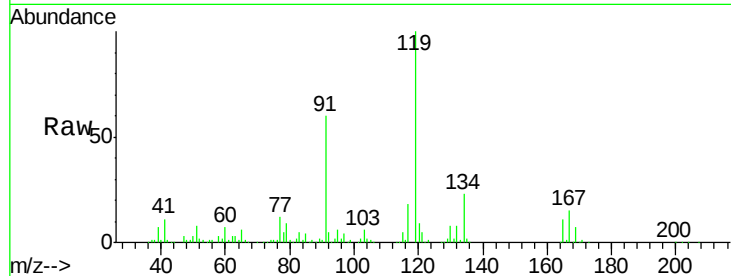


#77
tert-Butylbenzene
Concen: 11.443 ug/l
RT: 11.08 min Scan# 3108
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

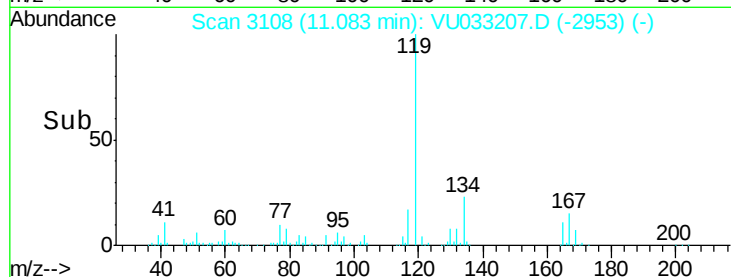
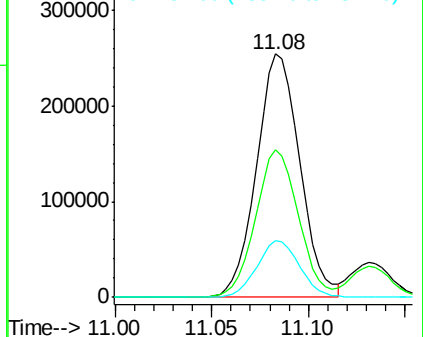
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
91	59.8	29.8	89.5
134	23.1	18.2	27.4

Manual Integrations
APPROVED

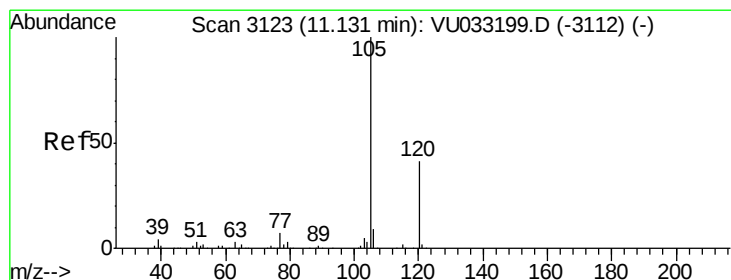


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V



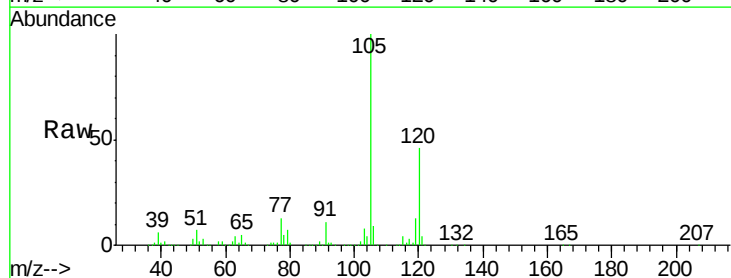
MMDadoda

7/16/2019 4:02:40 PM

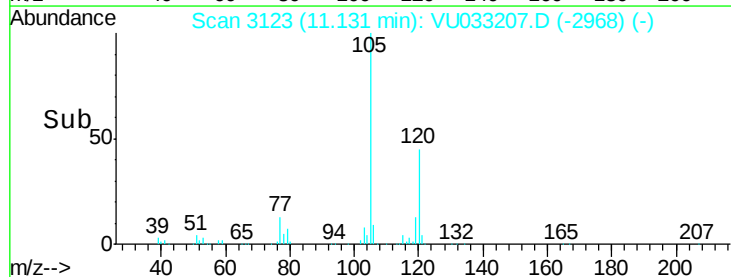
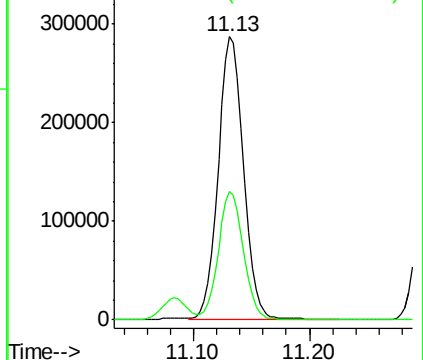


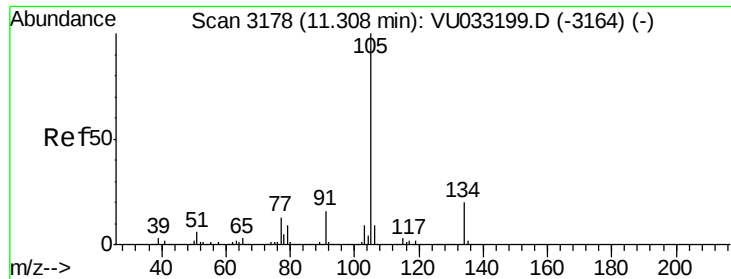
#78
1,2,4-Trimethylbenzene
Concen: 11.842 ug/l
RT: 11.13 min Scan# 3123
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.4	22.6	67.8



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#79

sec-Butylbenzene

Concen: 11.479 ug/l

RT: 11.31 min Scan# 3178

Delta R.T. -0.00 min

Lab File: VU033207.D

Acq: 12 Jul 2019 00:08

Instrument :

MSVOA_U

ClientSampled :

VSTDCCC010EC

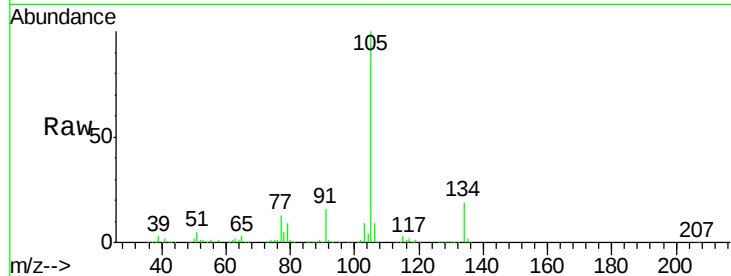
Tot Ion:105 Resp: 545807

Ion Ratio Lower Upper

105 100

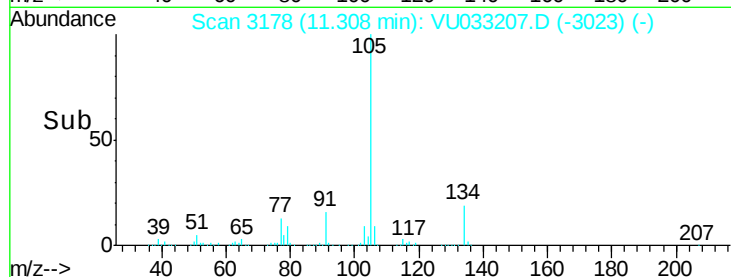
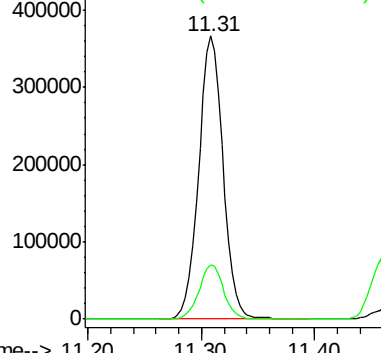
134 19.3 15.8 23.8

Manual Integrations
APPROVED



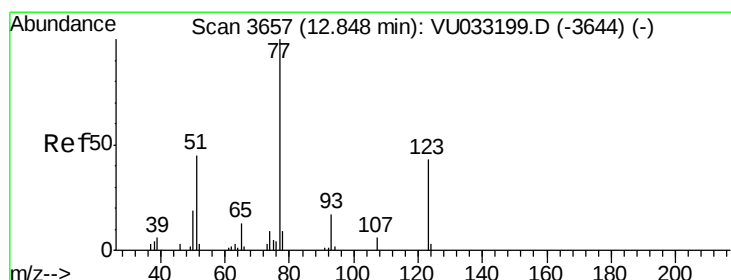
Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



MMDadoda

7/16/2019 4:02:40 PM



#80

Nitrobenzene

Concen: 44.547 ug/l

RT: 12.85 min Scan# 3658

Delta R.T. 0.00 min

Lab File: VU033207.D

Acq: 12 Jul 2019 00:08

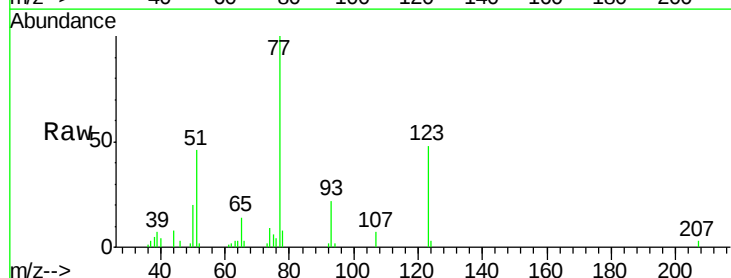
Tgt Ion: 77 Resp: 18377

Ion Ratio Lower Upper

77 100

123 46.3 20.9 74.1

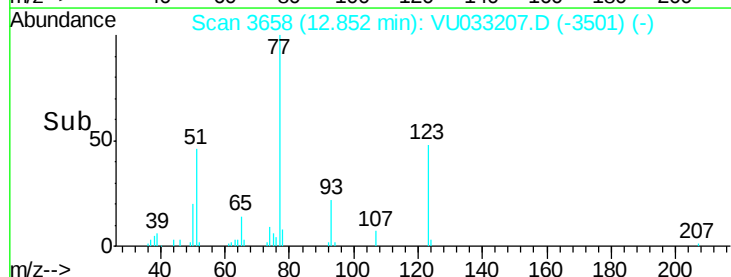
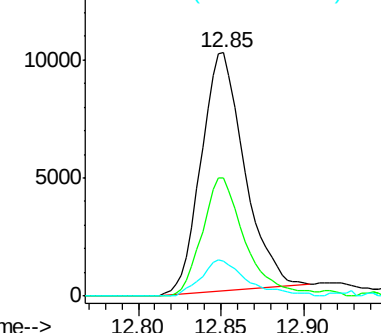
65 16.2 10.7 13.7#

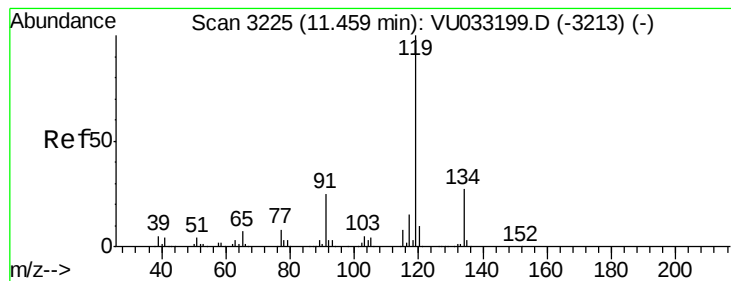


Abundance Ion 77.00 (76.70 to 77.70): VU0

Ion 123.00 (122.70 to 123.70): V

Ion 65.00 (64.70 to 65.70): VU0





#81

p-Isopropyltoluene

Concen: 11.695 ug/l

RT: 11.46 min Scan# 3225

Delta R.T. -0.00 min

Lab File: VU033207.D

Acq: 12 Jul 2019 00:08

Instrument :

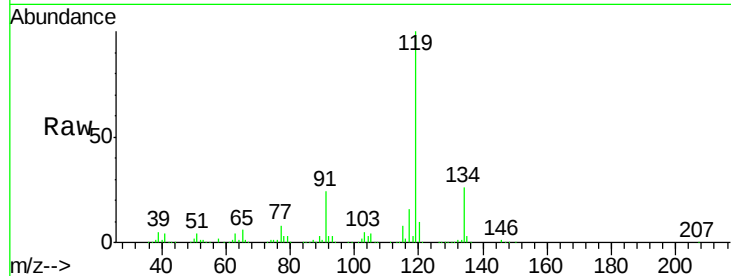
MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tot Ion:	119	Resp:	452211
Ion Ratio	Lower	Upper	
119	100		
134	26.5	21.1	31.7
91	24.8	19.7	29.5

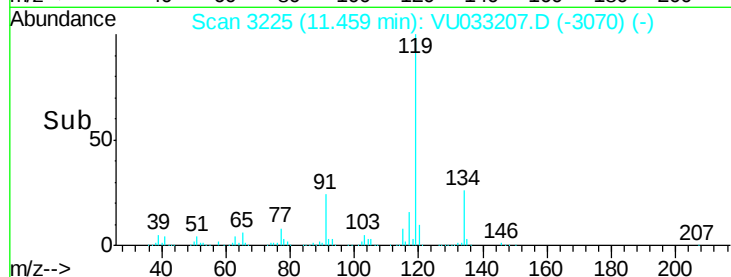
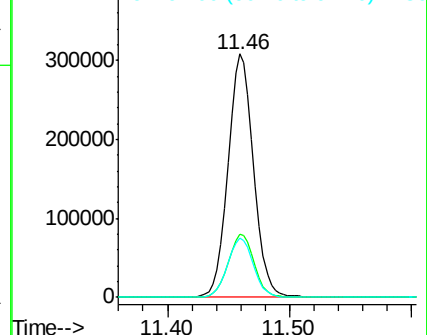
Manual Integrations
APPROVED



Abundance Ion 119.00 (118.70 to 119.70): V

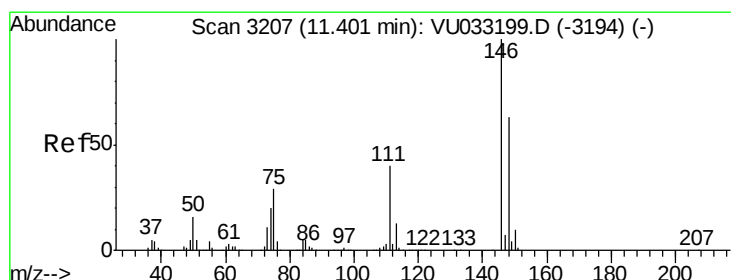
Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



MMDadoda

7/16/2019 4:02:40 PM



#82

1,3-Dichlorobenzene

Concen: 10.775 ug/l

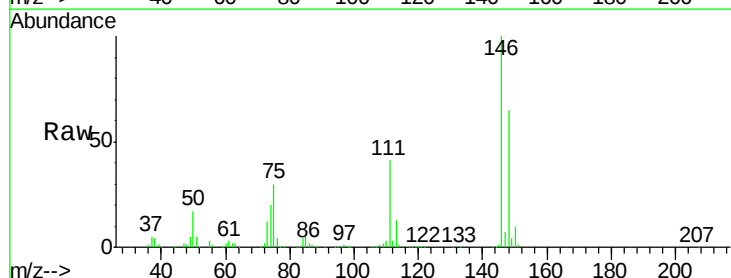
RT: 11.40 min Scan# 3207

Delta R.T. -0.00 min

Lab File: VU033207.D

Acq: 12 Jul 2019 00:08

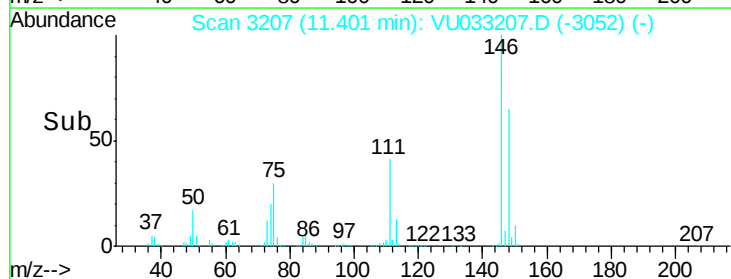
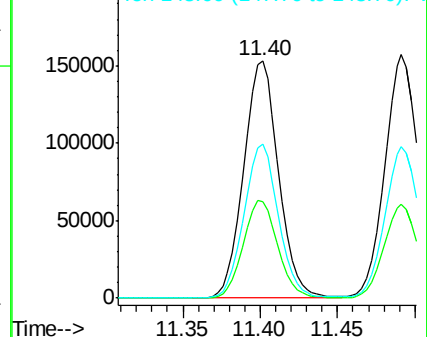
Tgt Ion:	146	Resp:	239737
Ion Ratio	Lower	Upper	
146	100		
111	40.9	32.2	48.4
148	64.1	50.8	76.2

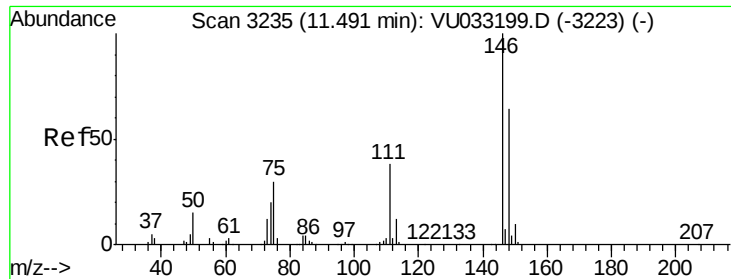


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



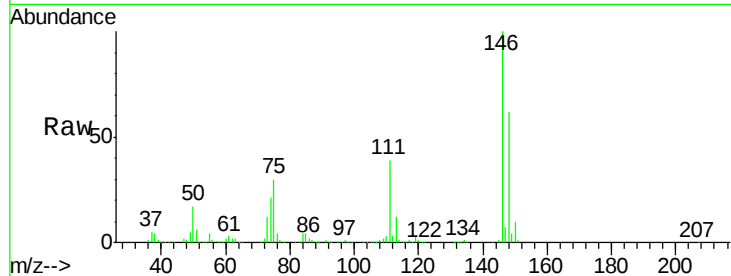


#83
 1,4-Dichlorobenzene
 Concen: 10.853 ug/l
 RT: 11.49 min Scan# 3235
 Delta R.T. -0.00 min
 Lab File: VU033207.D
 Acq: 12 Jul 2019 00:08

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.6	30.8	46.2
148	62.9	50.6	76.0

Manual Integrations
 APPROVED

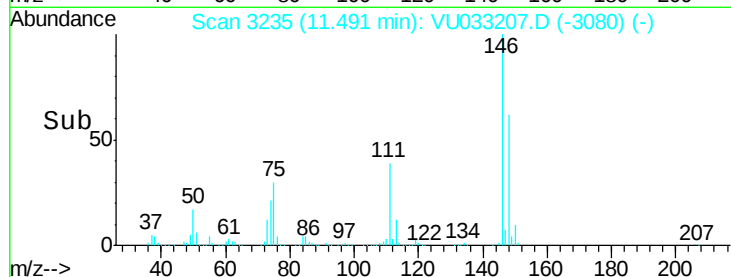
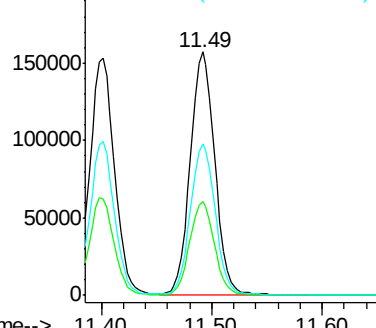


Abundance

Ion 146.00 (145.70 to 146.70): V

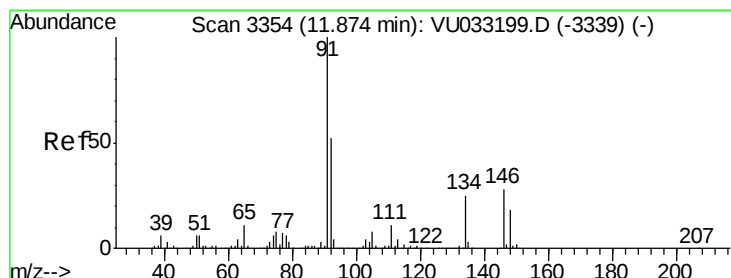
Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



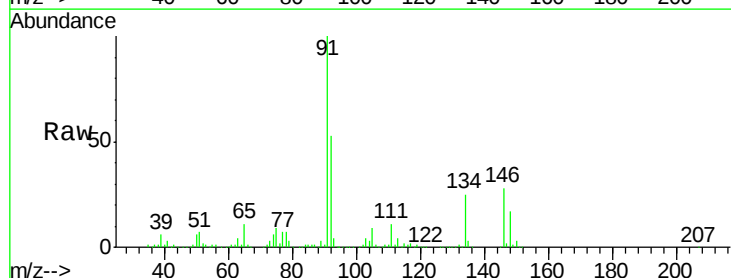
MMDadoda

7/16/2019 4:02:40 PM



#84
 n-Butylbenzene
 Concen: 11.379 ug/l
 RT: 11.87 min Scan# 3354
 Delta R.T. -0.00 min
 Lab File: VU033207.D
 Acq: 12 Jul 2019 00:08

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.1	41.5	62.3
134	25.2	19.6	29.4

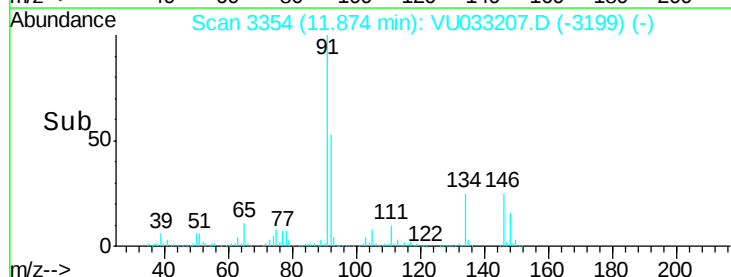
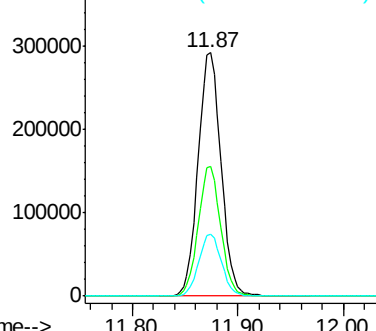


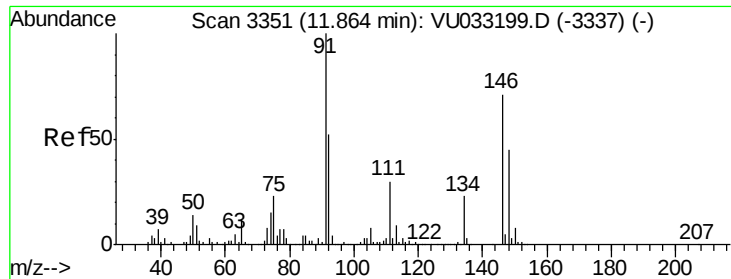
Abundance

Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0

Ion 134.00 (133.70 to 134.70): V



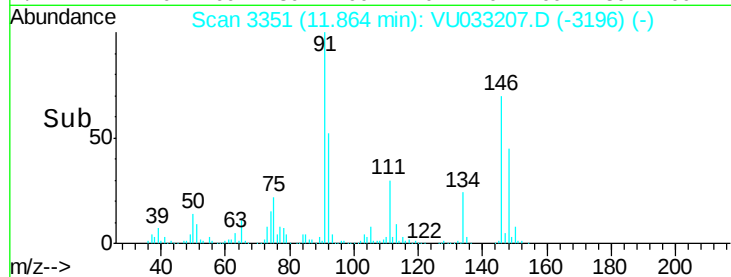
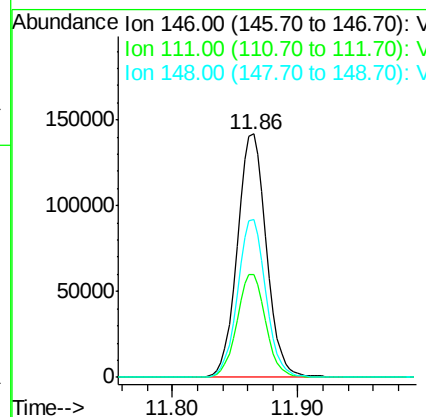
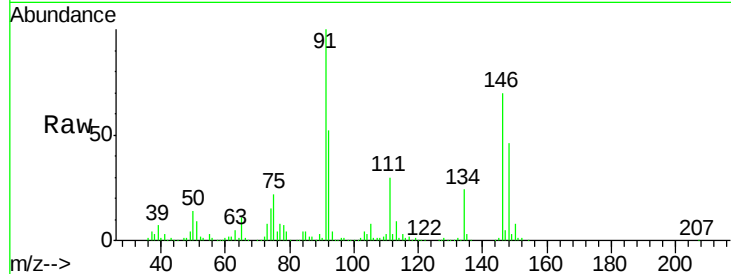


#85
 1,2-Dichlorobenzene
 Concen: 10.692 ug/l
 RT: 11.86 min Scan# 3351
 Delta R.T. -0.00 min
 Lab File: VU033207.D
 Acq: 12 Jul 2019 00:08

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

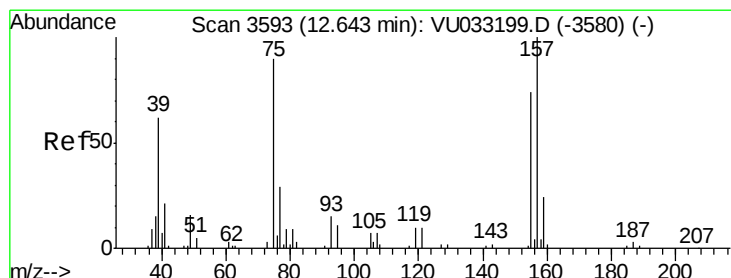
Tot Ion	Ratio	Lower	Upper
146	100		
111	41.9	21.3	63.7
148	63.4	32.0	96.0

Manual Integrations
 APPROVED



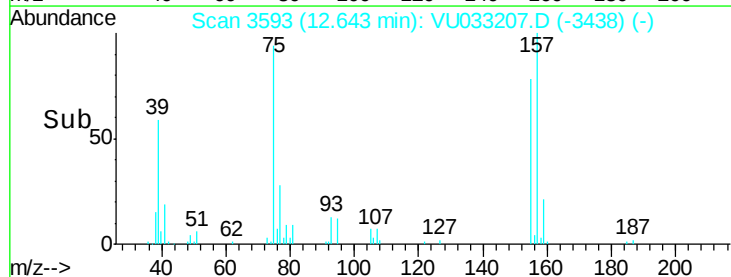
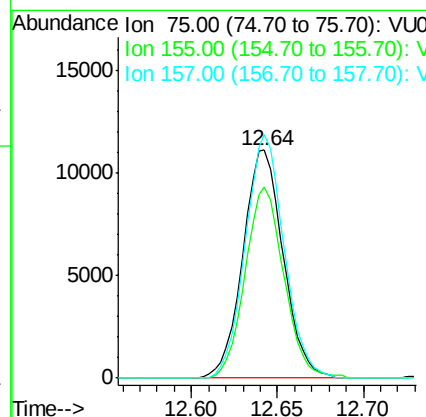
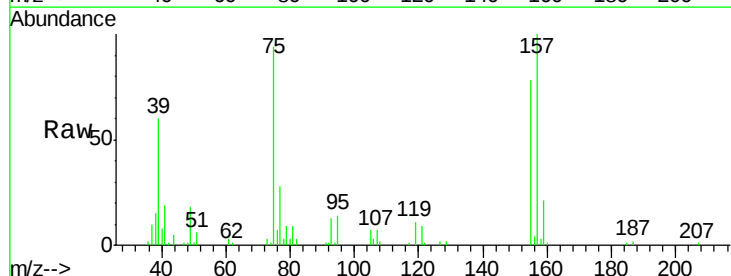
MMDadoda

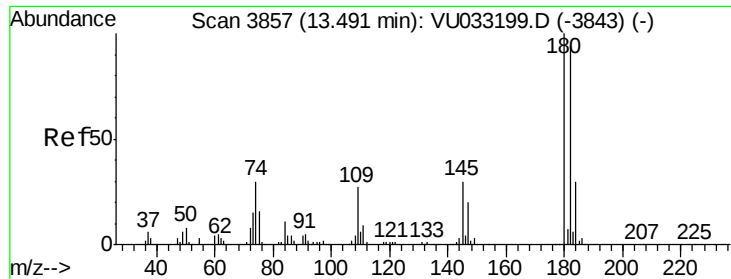
7/16/2019 4:02:40 PM



#86
 1,2-Dibromo-3-Chloropropane
 Concen: 10.812 ug/l
 RT: 12.64 min Scan# 3593
 Delta R.T. -0.00 min
 Lab File: VU033207.D
 Acq: 12 Jul 2019 00:08

Tgt Ion	Ratio	Lower	Upper
75	100		
155	80.2	60.6	90.8
157	102.4	82.5	123.7





#87

1,2,4-Trichlorobenzene

Concen: 11.281 ug/l

RT: 13.49 min Scan# 3857

Delta R.T. -0.00 min

Lab File: VU033207.D

Acq: 12 Jul 2019 00:08

Instrument :

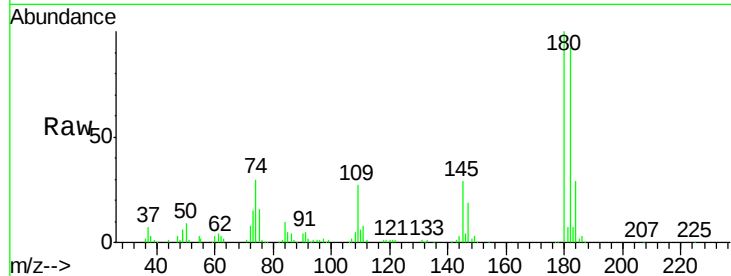
MSVOA_U

ClientSampleId :

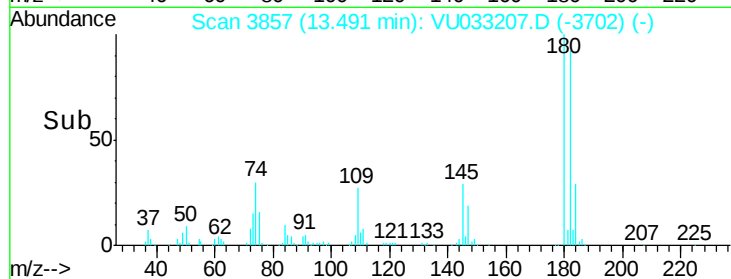
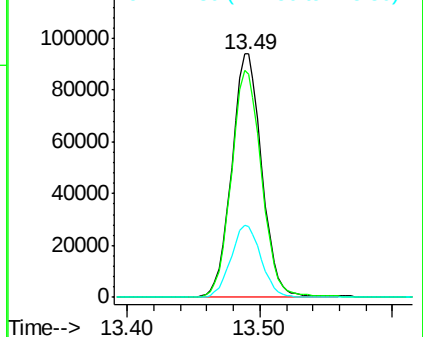
VSTDCCC010EC

Tot Ion:	180	Resp:	147819
Ion Ratio	Lower	Upper	
180	100		
182	94.5	75.4	113.2
145	30.1	24.5	36.7

Manual Integrations
APPROVED

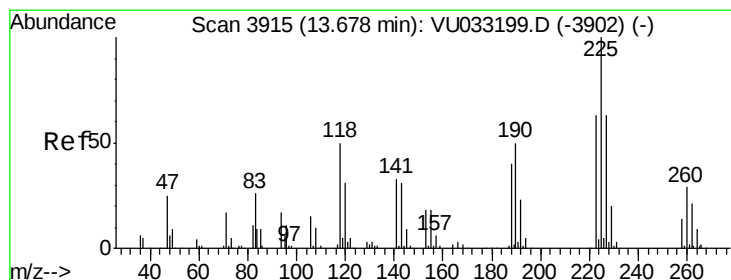


Abundance Ion 179.70 (179.40 to 180.40): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V



MMDadoda

7/16/2019 4:02:40 PM



#88

Hexachlorobutadiene

Concen: 10.362 ug/l

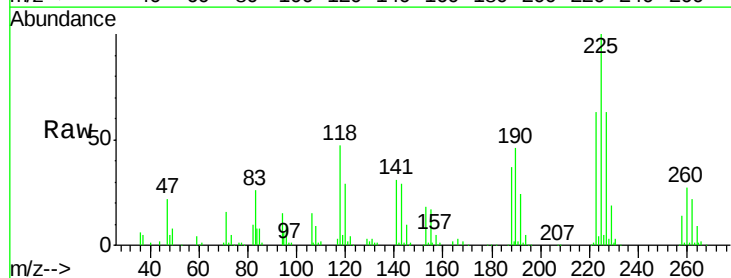
RT: 13.68 min Scan# 3916

Delta R.T. 0.00 min

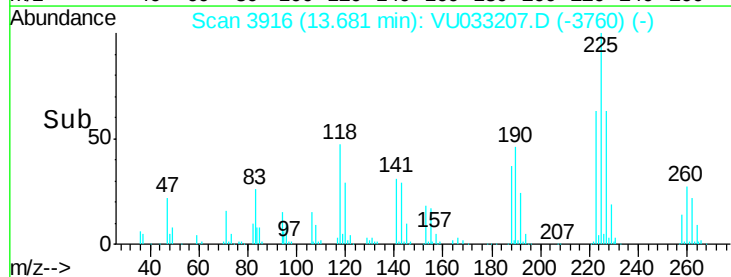
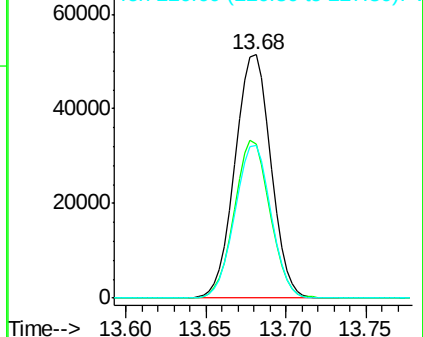
Lab File: VU033207.D

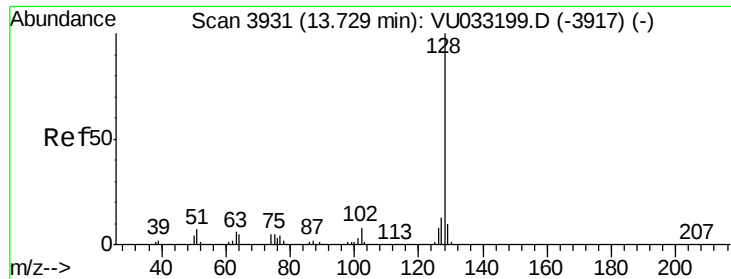
Acq: 12 Jul 2019 00:08

Tgt Ion:	225	Resp:	78436
Ion Ratio	Lower	Upper	
225	100		
223	64.2	51.1	76.7
227	63.2	51.2	76.8



Abundance Ion 224.60 (224.30 to 225.30): V
Ion 222.60 (222.30 to 223.30): V
Ion 226.60 (226.30 to 227.30): V



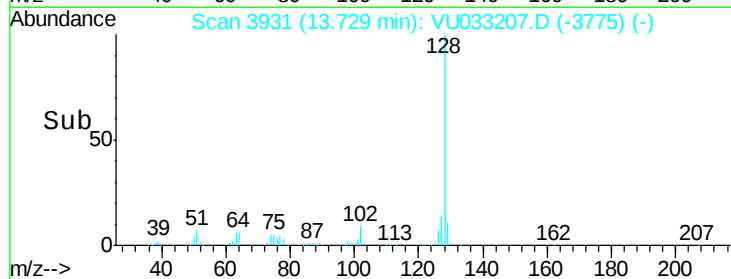
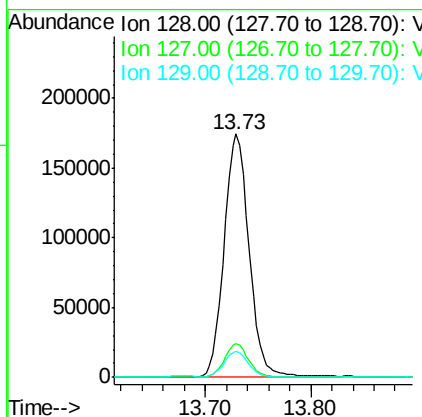
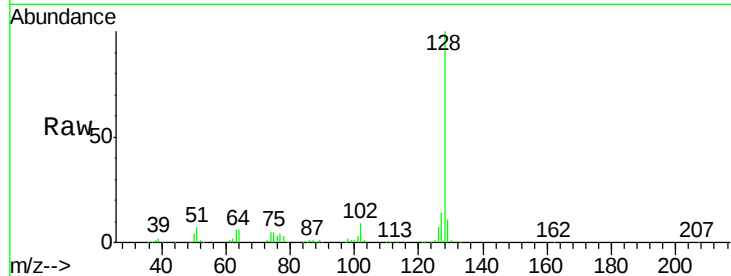


#89
Naphthalene
Concen: 9.731 ug/l
RT: 13.73 min Scan# 3931
Delta R.T. 0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

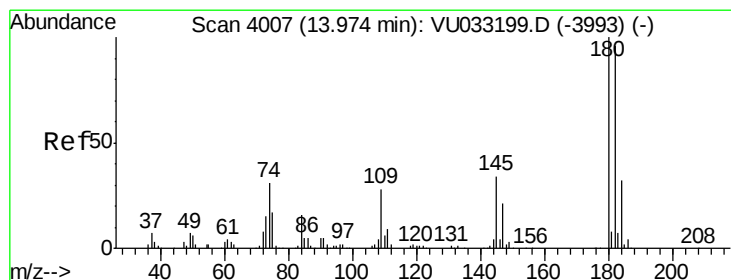
Tot Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.4	15.6
129	10.4	8.6	12.8

Manual Integrations
APPROVED



MMDadoda

7/16/2019 4:02:40 PM



#90
1,2,3-Trichlorobenzene
Concen: 11.321 ug/l
RT: 13.97 min Scan# 4007
Delta R.T. -0.00 min
Lab File: VU033207.D
Acq: 12 Jul 2019 00:08

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.2	76.2	114.4
145	32.0	26.6	40.0

