

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072319\
 Data File : VU033374.D
 Acq On : 23 Jul 2019 11:54
 Operator : JC/SP
 Sample : VU0723WBSD01
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleID :
 VU0723WBSD01

Manual Integrations
 APPROVED

MMDadoda
 7/25/2019 11:15:48 AM

Quant Time: Jul 24 04:02:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U072219DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue Jul 23 03:43:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	5.72	96	29136	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.29	95	11264	0.99	ug/l	0.00
Spiked Amount 1.000			Recovery	=	99.00%	
68) 1,2-Dichlorobenzene-d4	11.85	152	11265	0.95	ug/l	0.00
Spiked Amount 1.000			Recovery	=	95.00%	
Target Compounds						
					Ovalue	
2) Dichlorodifluoromethane	1.20	85	25620	2.126	ug/l	100
3) Chloromethane	1.33	50	26701	2.008	ug/l	100
4) Vinyl Chloride	1.40	62	30359	2.046	ug/l	98
5) Bromomethane	1.62	94	20055	2.147	ug/l	98
6) Chloroethane	1.69	64	18752	1.799	ug/l	95
7) Trichlorofluoromethane	1.88	101	42195	2.071	ug/l	97
8) 1,1,2-Trichloro-1,2,2-trif	2.27	101	21479	2.043	ug/l	99
9) 1,1-Dichloroethene	2.27	96	21151	2.043	ug/l	99
10) Iodomethane	2.40	142	22433	1.612	ug/l	99
11) Allyl Chloride	2.58	41	34190	2.001	ug/l	98
12) Acrylonitrile	2.92	53	10269	3.553	ug/l	97
13) Acetone	2.31	43	22837	9.262	ug/l	100
14) Carbon Disulfide	2.46	76	78982	2.008	ug/l	98
15) Methylene Chloride	2.68	84	26509	1.899	ug/l	96
16) trans-1,2-Dichloroethene	2.96	96	24328	1.979	ug/l	97
17) 1,1-Dichloroethane	3.42	63	34325	2.080	ug/l	99
18) 2-Butanone	4.25	43	20235	8.598	ug/l	97
19) Cyclohexane	4.97	56	23380m	1.931	ug/l	
20) Methylcyclohexane	6.39	83	23212	1.904	ug/l	96
21) 2,2-Dichloropropane	4.20	77	28966	2.072	ug/l	100
22) cis-1,2-Dichloroethene	4.20	96	19420	2.084	ug/l	99
23) Diethyl Ether	2.09	59	16682	1.869	ug/l	98
24) tert-Butyl Alcohol	2.82	59	21469	15.008	ug/l	98
25) Methyl tert-Butyl Ether	2.98	73	57440	1.927	ug/l	99
26) Bromochloromethane	4.52	128	8811	2.151	ug/l	95
27) Chloroform	4.65	83	37482	1.988	ug/l	100
28) 1,1,1-Trichloroethane	4.89	97	29657	2.031	ug/l	98
29) 1,1-Dichloropropene	5.11	75	24595	2.042	ug/l	99
30) Carbon Tetrachloride	5.11	117	26798	2.085	ug/l	97
31) Isopropyl Ether	3.56	45	41124	1.972	ug/l	96
32) Ethyl-t-butyl ether	4.05	59	38177	1.904	ug/l	97
33) Tert-Amyl methyl ether	5.56	73	34033	1.888	ug/l	98
34) Propionitrile	4.32	54	6054	8.967	ug/l #	95
35) Benzene	5.37	78	70396	2.023	ug/l	97
36) 1,2-Dichloroethane	5.38	62	22569	1.949	ug/l	100
37) Trichloroethene	6.16	130	18517	2.016	ug/l	93
38) 1,2-Dichloropropane	6.41	63	18924	1.971	ug/l	100
39) Methacrylonitrile	4.53	41	5111	1.907	ug/l	99
40) Methyl acrylate	4.41	55	8946	2.146	ug/l #	88
41) Tetrahydrofuran	4.63	42	4633m	3.448	ug/l	
42) 1-Chlorobutane	5.04	56	31227	1.934	ug/l	91

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072319\
 Data File : VU033374.D
 Acq On : 23 Jul 2019 11:54
 Operator : JC/SP
 Sample : VU0723WBSD01
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleID :
 VU0723WBSD01

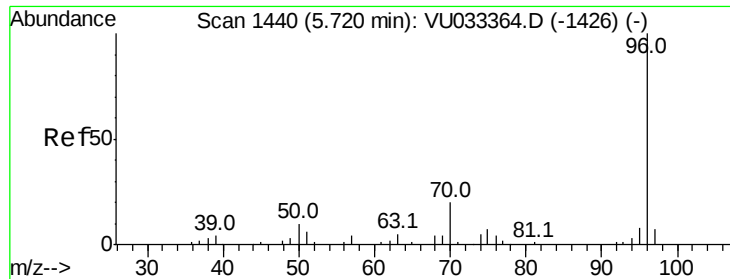
Manual Integrations
 APPROVED

MMDadoda
 7/25/2019 11:15:48 AM

Quant Time: Jul 24 04:02:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U072219DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue Jul 23 03:43:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Dibromomethane	6.54	93	10379	1.953	ug/l	99
44) Bromodichloromethane	6.74	83	25395	1.982	ug/l	95
45) 4-Methyl-2-Pentanone	7.45	43	47877	8.833	ug/l	96
46) t-1,4-Dichloro-2-butene	10.50	75	7786m	3.559	ug/l	
47) Methyl methacrylate	6.61	69	14779	3.648	ug/l	92
48) Ethyl methacrylate	8.01	69	12589	1.763	ug/l	95
49) Toluene	7.62	92	40491	2.032	ug/l	98
50) t-1,3-Dichloropropene	7.86	75	20894	1.955	ug/l	98
51) cis-1,3-Dichloropropene	7.25	75	24825	1.967	ug/l	94
52) 1,1,2-Trichloroethane	8.05	97	13745	1.935	ug/l	98
53) 1,3-Dichloropropane	8.23	76	23051	1.921	ug/l	99
54) 2-Hexanone	8.35	43	32670	8.562	ug/l	94
55) Dibromochloromethane	8.46	129	16074	1.937	ug/l	96
56) 1,2-Dibromoethane	8.57	107	12731	1.923	ug/l	99
58) Tetrachloroethene	8.21	164	16687	2.004	ug/l	98
59) Chlorobenzene	9.10	112	45394	1.987	ug/l	97
60) 1,1,1,2-Tetrachloroethane	9.19	131	17465	2.013	ug/l	99
61) Pentachloroethane	11.09	117	15134	2.125	ug/l	94
62) Hexachloroethane	12.13	117	14116	2.049	ug/l	99
63) Ethyl Benzene	9.23	91	70939	1.933	ug/l	97
64) m/p-Xylenes	9.36	106	55989	3.816	ug/l	98
65) o-Xylene	9.76	106	27504	1.956	ug/l	100
66) Styrene	9.78	104	45166	1.894	ug/l	99
67) Bromoform	9.94	173	8665	1.930	ug/l	98
69) Isopropylbenzene	10.15	105	71276	1.977	ug/l	98
70) 1,1,2,2-Tetrachloroethane	10.44	83	18509	1.966	ug/l	97
71) 1,2,3-Trichloropropane	10.48	75	12701m	1.748	ug/l	
72) Bromobenzene	10.44	156	19016	1.997	ug/l	99
73) n-propylbenzene	10.57	120	19683	1.916	ug/l	97
74) 2-Chlorotoluene	10.65	126	19447	2.073	ug/l	96
75) 1,3,5-Trimethylbenzene	10.76	105	63582	1.965	ug/l	99
76) 4-Chlorotoluene	10.76	126	19740	2.020	ug/l	90
77) tert-Butylbenzene	11.09	119	58894	1.920	ug/l	99
78) 1,2,4-Trimethylbenzene	11.13	105	62288	1.883	ug/l	96
79) sec-Butylbenzene	11.31	105	83269	1.972	ug/l	99
80) Nitrobenzene	12.86	77	1483m	3.790	ug/l	
81) p-Isopropyltoluene	11.46	119	67288	1.960	ug/l	99
82) 1,3-Dichlorobenzene	11.40	146	40766	2.014	ug/l	99
83) 1,4-Dichlorobenzene	11.49	146	40210	2.008	ug/l	99
84) n-Butylbenzene	11.87	91	65240	1.857	ug/l	97
85) 1,2-Dichlorobenzene	11.86	146	37684	1.986	ug/l	100
86) 1,2-Dibromo-3-Chloropropan	12.65	75	3058	2.065	ug/l	88
87) 1,2,4-Trichlorobenzene	13.49	180	20190	1.788	ug/l	96
88) Hexachlorobutadiene	13.68	225	14186	2.037	ug/l	97
89) Naphthalene	13.73	128	31449	1.804	ug/l	99
90) 1,2,3-Trichlorobenzene	13.98	180	19462	1.776	ug/l	98

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



#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.72 min Scan# 1441

Delta R.T. 0.00 min

Lab File: VU033374.D

Acq: 23 Jul 2019 11:54

Instrument :

MSVOA_U

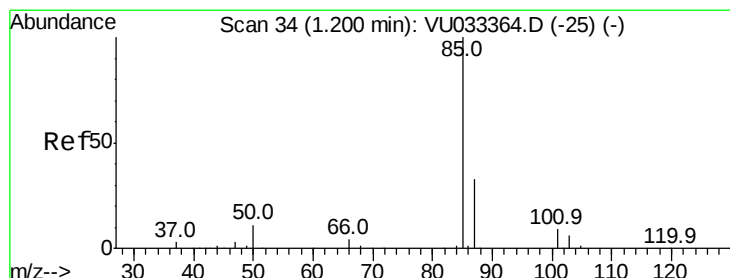
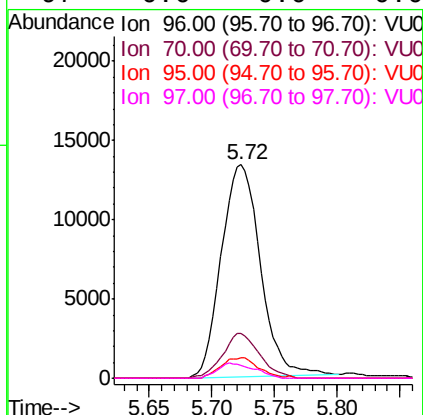
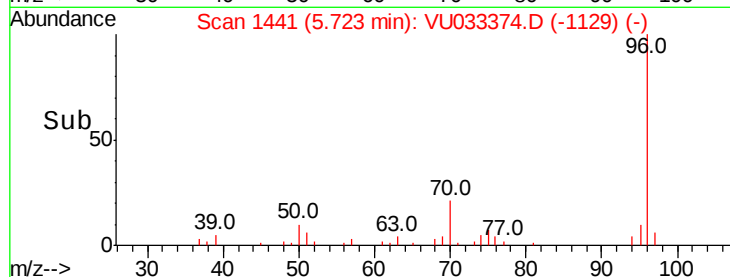
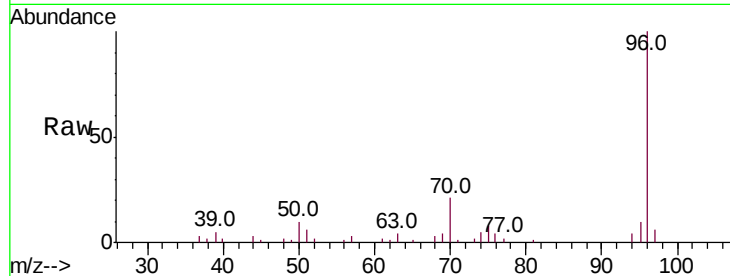
ClientSampleId :

VU0723WBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
70	20.0	16.4	24.6
95	9.5	6.7	10.1
97	6.6	0.0	0.0#

Manual Integrations
APPROVED

MMDadoda
7/25/2019 11:15:48 AM



#2

Dichlorodifluoromethane

Concen: 2.126 ug/l

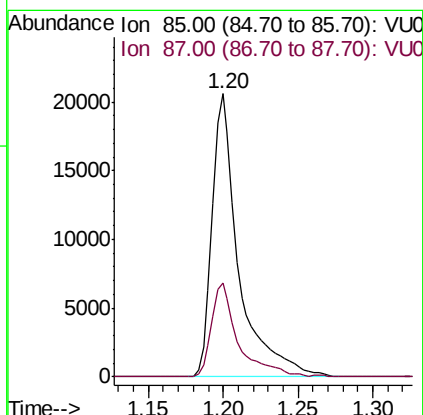
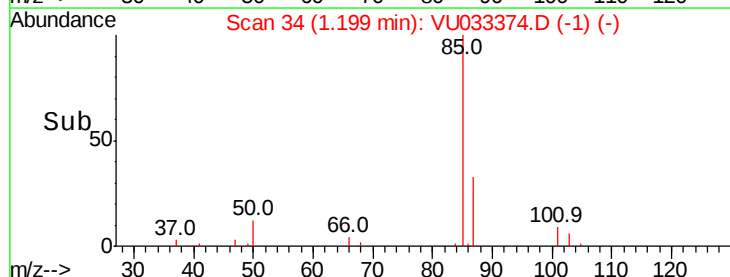
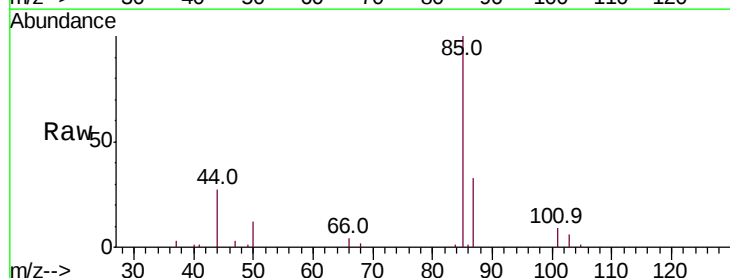
RT: 1.20 min Scan# 34

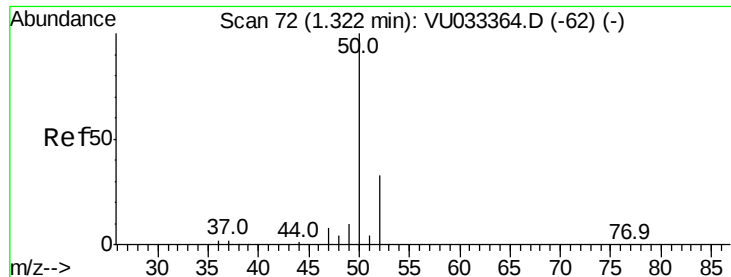
Delta R.T. -0.00 min

Lab File: VU033374.D

Acq: 23 Jul 2019 11:54

Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.3	16.6	49.7





#3

Chloromethane

Concen: 2.008 ug/l

RT: 1.33 min Scan# 74

Delta R.T. 0.01 min

Lab File: VU033374.D

Acq: 23 Jul 2019 11:54

Instrument :

MSVOA_U

ClientSampleId :

VU0723WBSD01

Tot Ion: 50 Resp: 26701

Ion Ratio Lower Upper

50 100

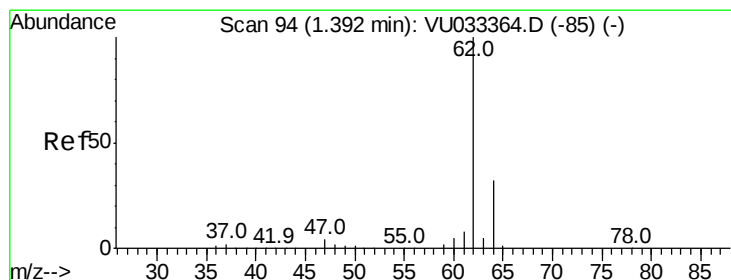
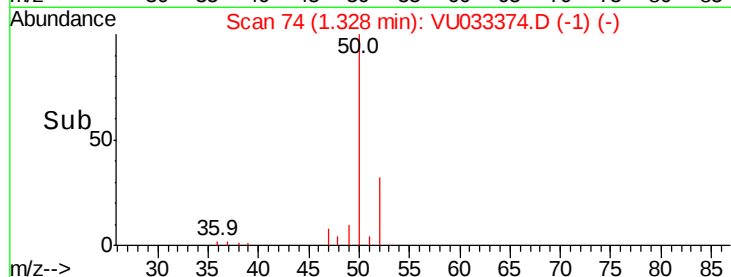
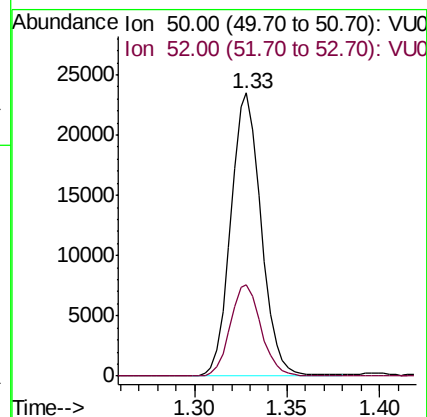
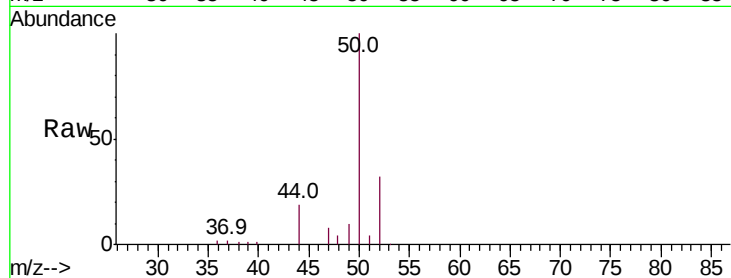
52 32.5 26.1 39.1

Manual Integrations

APPROVED

MMDadoda

7/25/2019 11:15:48 AM



#4

Vinyl Chloride

Concen: 2.046 ug/l

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033374.D

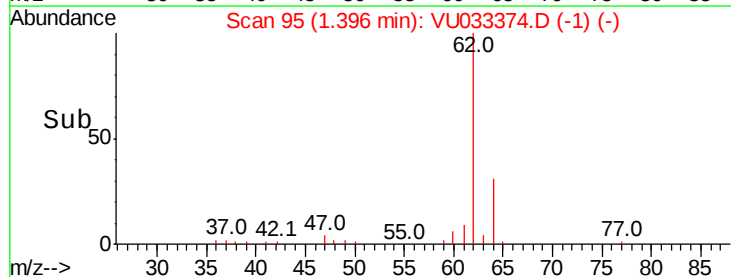
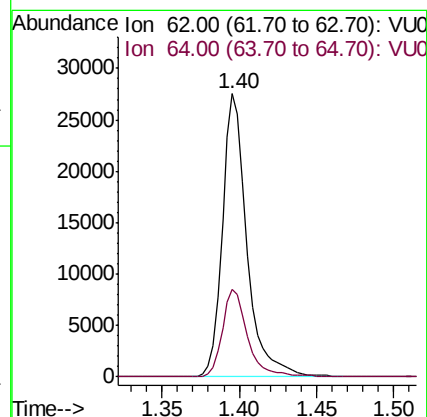
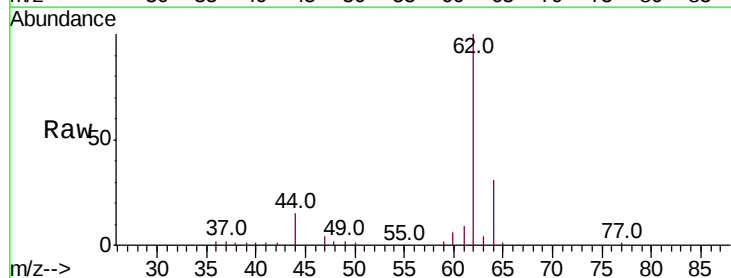
Acq: 23 Jul 2019 11:54

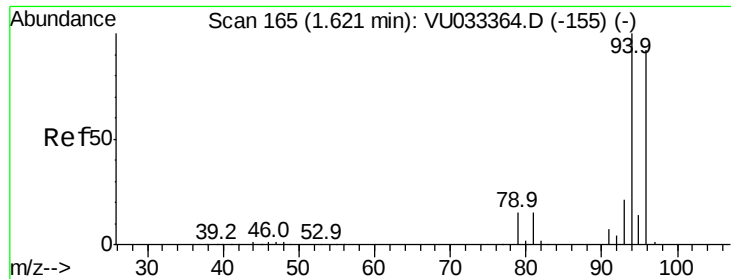
Tgt Ion: 62 Resp: 30359

Ion Ratio Lower Upper

62 100

64 31.0 25.6 38.4





#5

Bromomethane

Concen: 2.147 ug/l

RT: 1.62 min Scan# 165

Delta R.T. -0.00 min

Lab File: VU033374.D

Acq: 23 Jul 2019 11:54

Instrument :

MSVOA_U

ClientSampled :

VU0723WBSD01

Tot Ion: 94 Resp: 20055

Ion Ratio Lower Upper

94 100

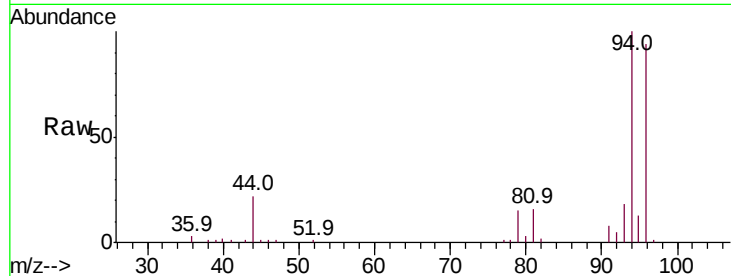
96 93.7 73.2 109.8

Manual Integrations

APPROVED

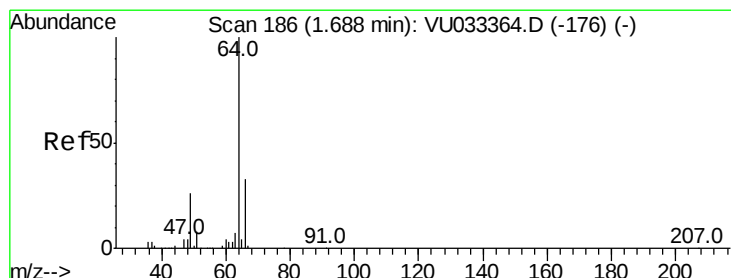
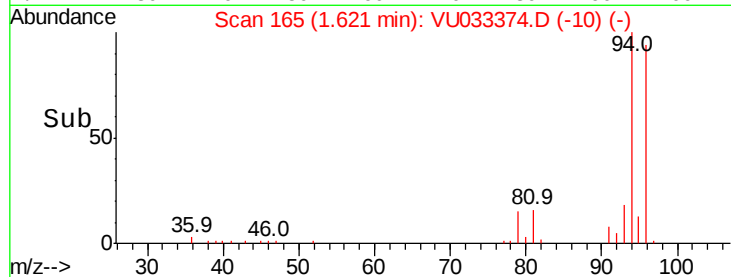
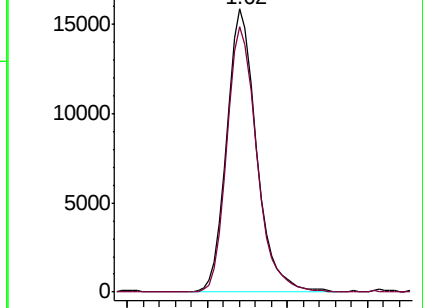
MMDadoda

7/25/2019 11:15:48 AM



Abundance Ion 94.00 (93.70 to 94.70): VU033364.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU033364.D (-155) (-)



#6

Chloroethane

Concen: 1.799 ug/l

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU033374.D

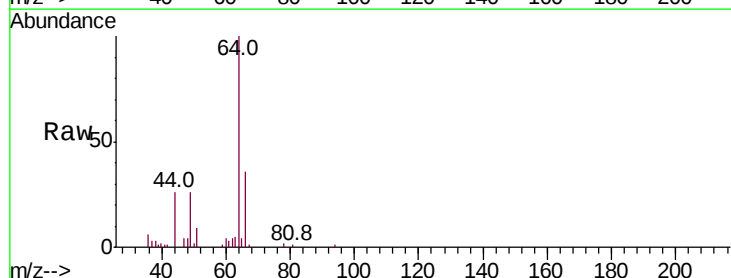
Acq: 23 Jul 2019 11:54

Tgt Ion: 64 Resp: 18752

Ion Ratio Lower Upper

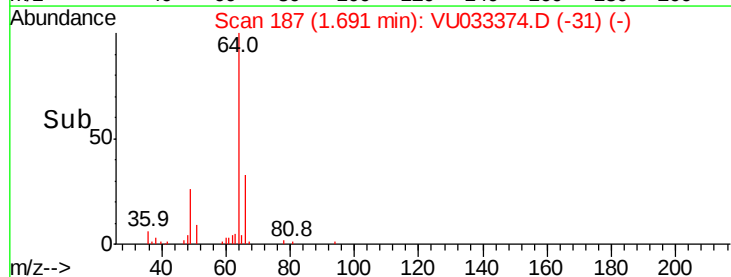
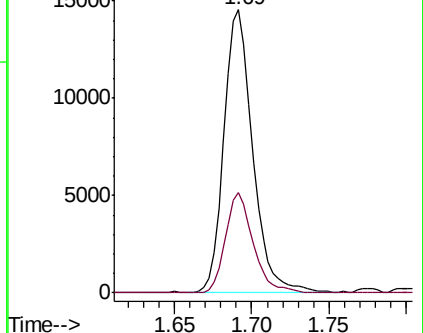
64 100

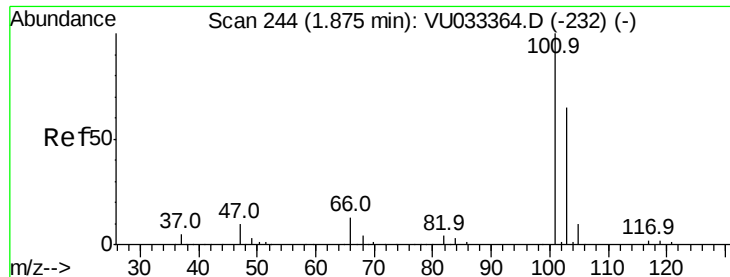
66 35.6 26.4 39.6



Abundance Ion 64.00 (63.70 to 64.70): VU033364.D (-176) (-)

Ion 66.00 (65.70 to 66.70): VU033364.D (-176) (-)





#7

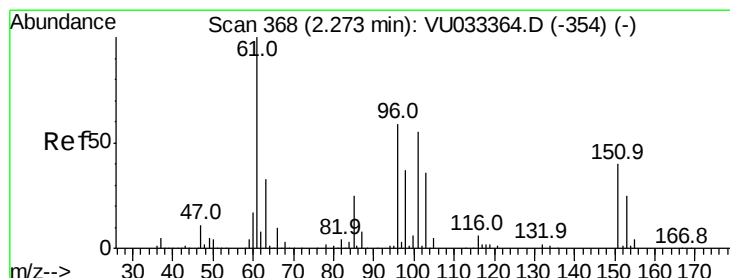
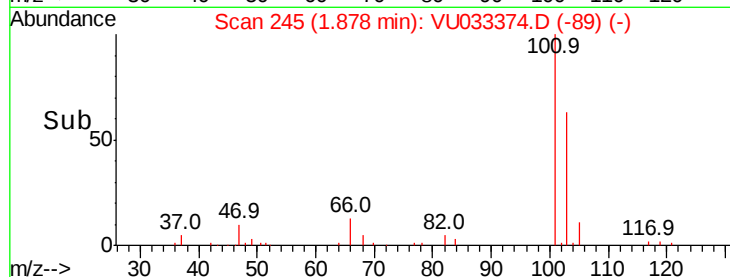
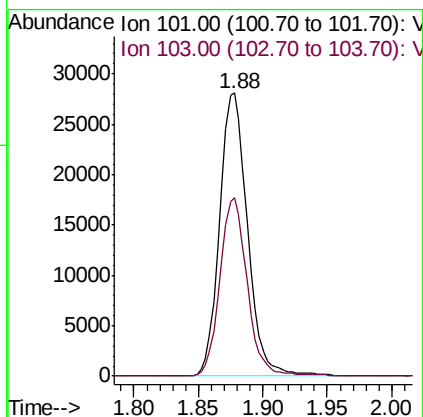
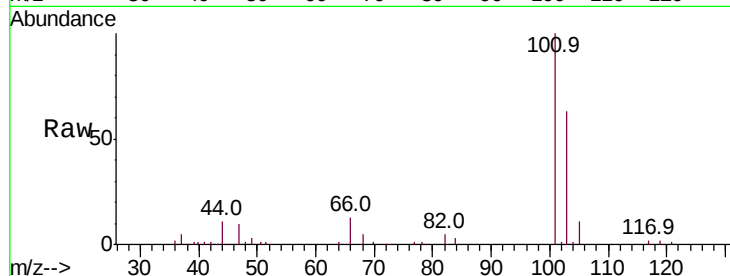
Trichlorofluoromethane
Concen: 2.071 ug/l
RT: 1.88 min Scan# 245
Delta R.T. 0.00 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Instrument :
MSVOA_U
ClientSampleId :
VU0723WBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.1	52.2	78.2

Manual Integrations
APPROVED

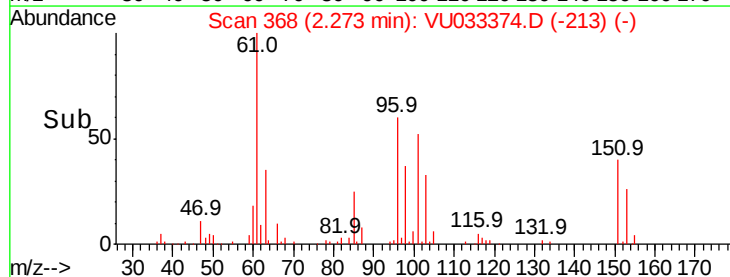
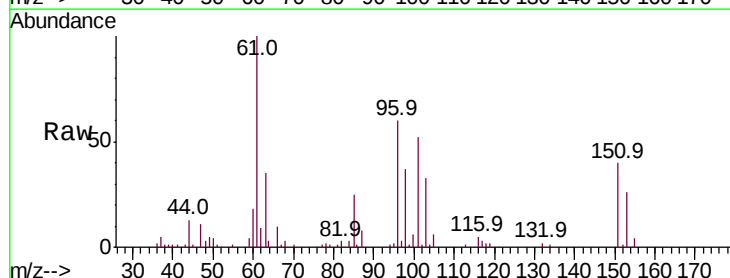
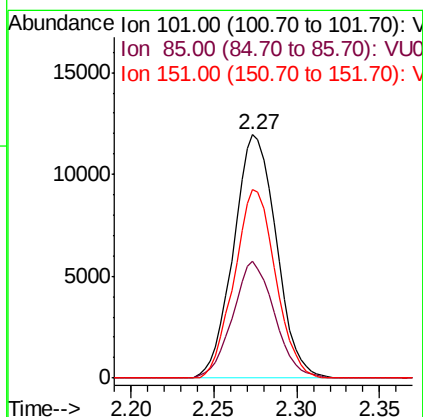
MMDadoda
7/25/2019 11:15:48 AM

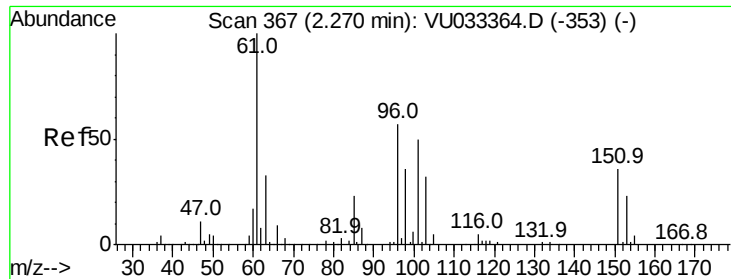


#8

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 2.043 ug/l
RT: 2.27 min Scan# 368
Delta R.T. -0.00 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Tgt Ion	Ratio	Lower	Upper
101	100		
85	46.6	37.5	56.3
151	74.4	58.3	87.5





#9

1,1-Dichloroethene

Concen: 2.043 ug/l

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033374.D

Acq: 23 Jul 2019 11:54

Instrument :

MSVOA_U

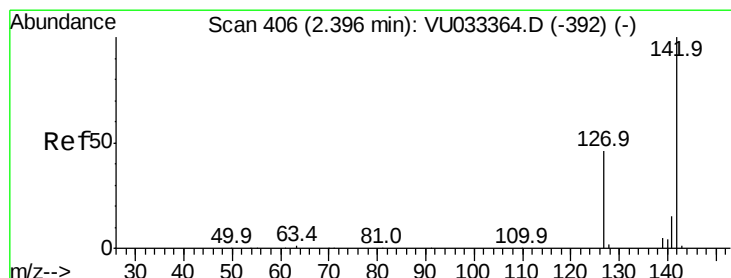
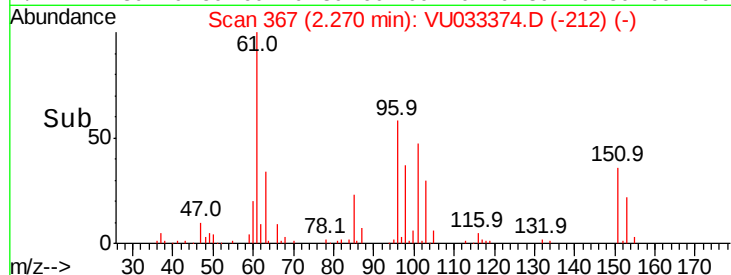
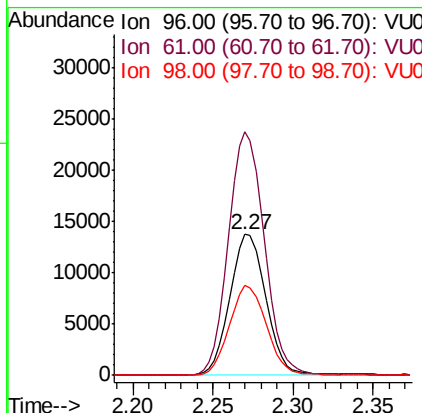
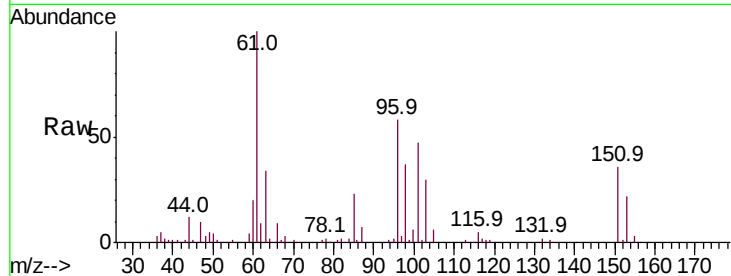
ClientSampleId :

VU0723WBSD01

Tot Ion:	96	Resp:	21151
Ion Ratio	Lower	Upper	
96	100		
61	173.0	0.0	525.6
98	63.7	0.0	126.4

Manual Integrations
APPROVED

MMDadoda
7/25/2019 11:15:48 AM



#10

Iodomethane

Concen: 1.612 ug/l

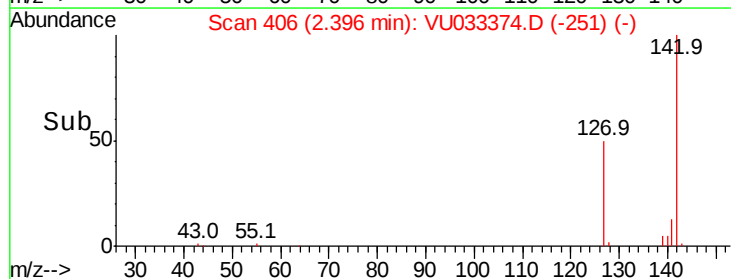
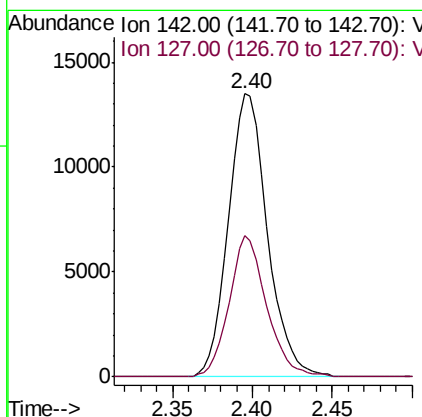
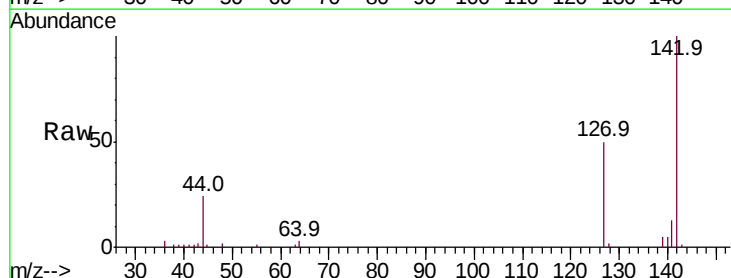
RT: 2.40 min Scan# 406

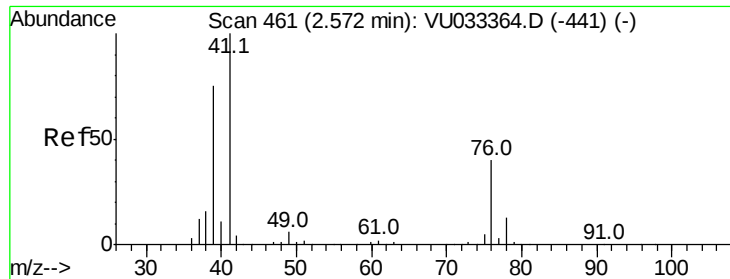
Delta R.T. -0.00 min

Lab File: VU033374.D

Acq: 23 Jul 2019 11:54

Tgt Ion:	142	Resp:	22433
Ion Ratio	Lower	Upper	
142	100		
127	47.8	37.8	56.6





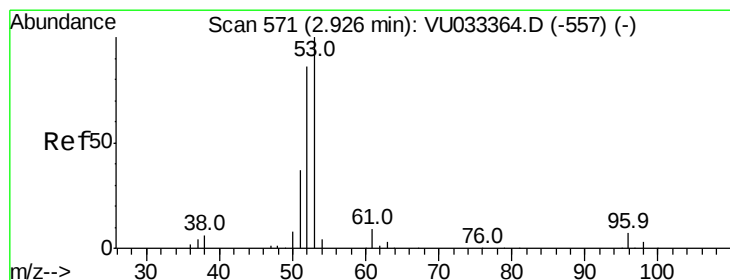
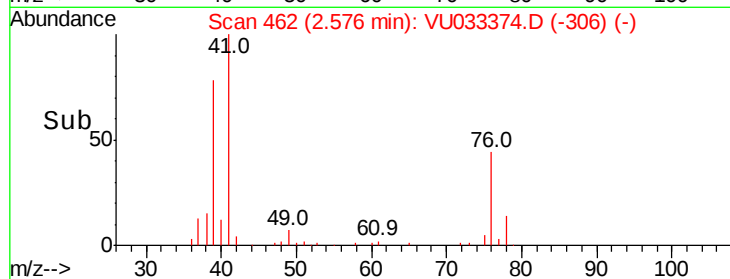
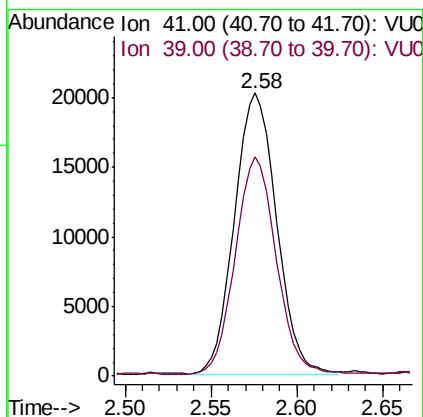
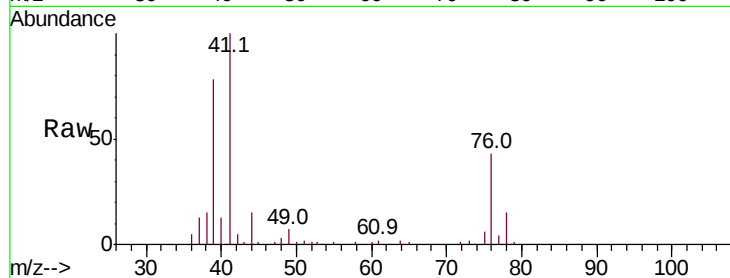
#11
Allvl Chloride
Concen: 2.001 ug/l
RT: 2.58 min Scan# 462
Delta R.T. 0.00 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Instrument :
MSVOA_U
ClientSampleId :
VU0723WBSD01

Tot Ion: 41 Resp: 34190
Ion Ratio Lower Upper
41 100
39 75.2 58.7 88.1

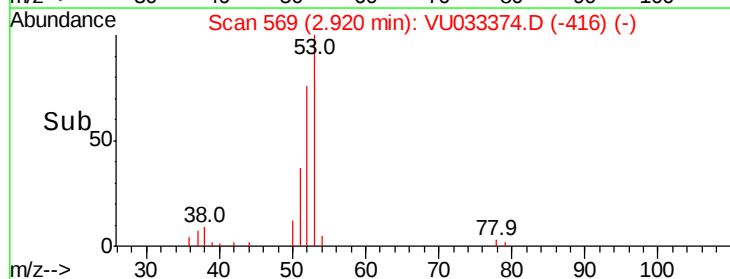
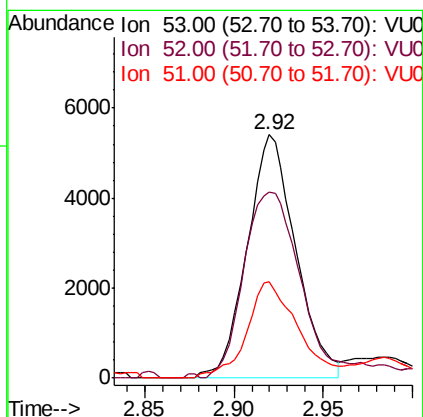
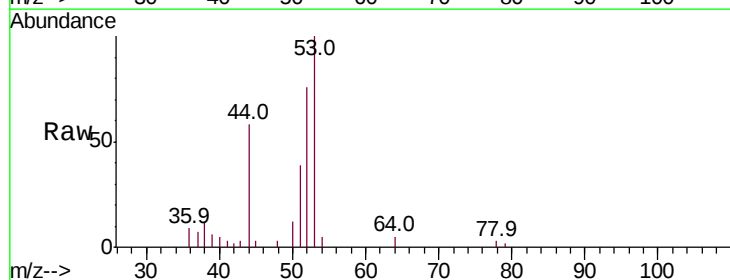
Manual Integrations
APPROVED

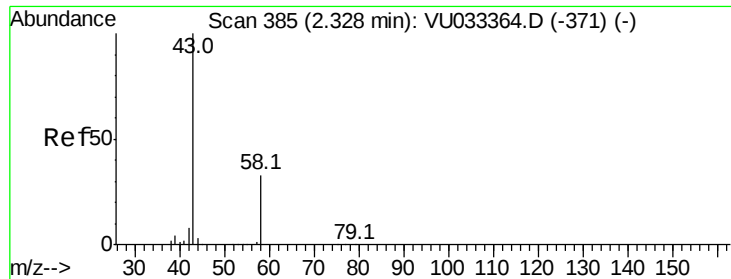
MMDadoda
7/25/2019 11:15:48 AM



#12
Acrylonitrile
Concen: 3.553 ug/l
RT: 2.92 min Scan# 569
Delta R.T. -0.01 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Tgt Ion: 53 Resp: 10269
Ion Ratio Lower Upper
53 100
52 88.6 69.8 104.8
51 41.1 29.1 43.7





#13

Acetone

Concen: 9.262 ug/l

RT: 2.31 min Scan# 379

Delta R.T. -0.02 min

Lab File: VU033374.D

Acq: 23 Jul 2019 11:54

Instrument :

MSVOA_U

ClientSampleId :

VU0723WBSD01

Tot Ion: 43 Resp: 22837

Ion Ratio Lower Upper

43 100

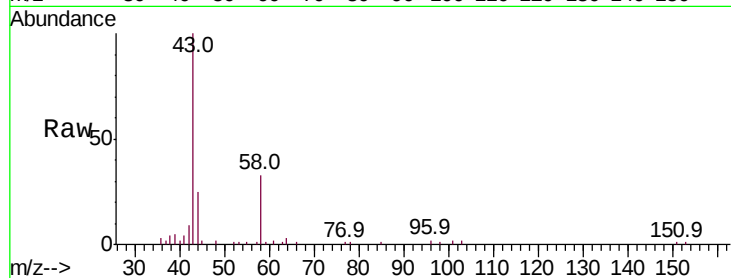
58 33.1 26.3 39.5

Manual Integrations

APPROVED

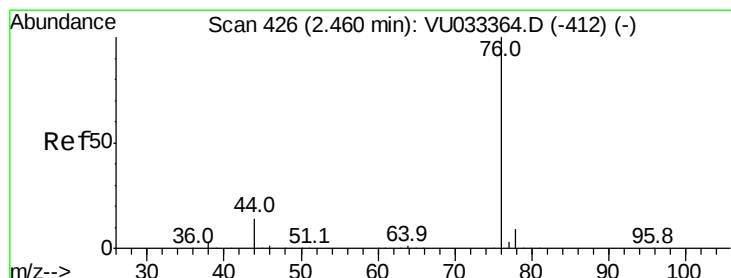
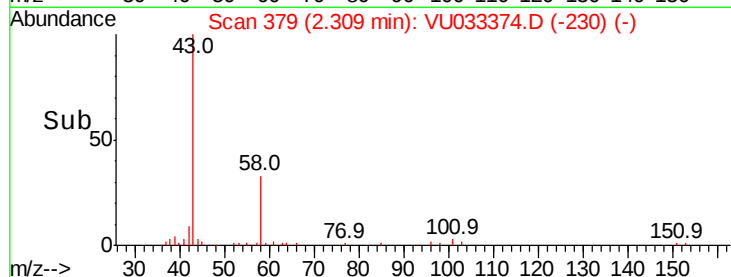
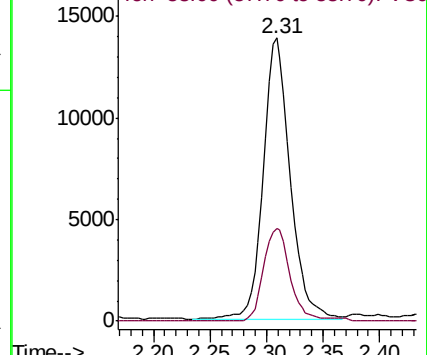
MMDadoda

7/25/2019 11:15:48 AM



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#14

Carbon Disulfide

Concen: 2.008 ug/l

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU033374.D

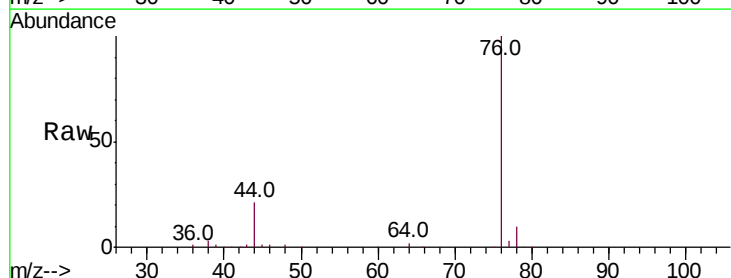
Acq: 23 Jul 2019 11:54

Tgt Ion: 76 Resp: 78982

Ion Ratio Lower Upper

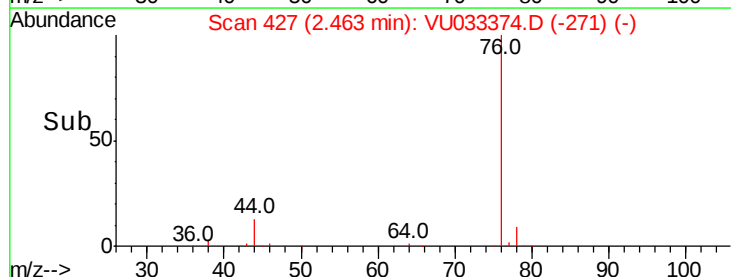
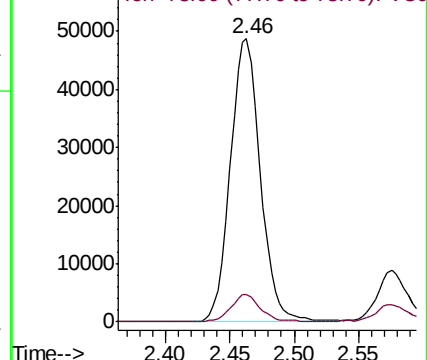
76 100

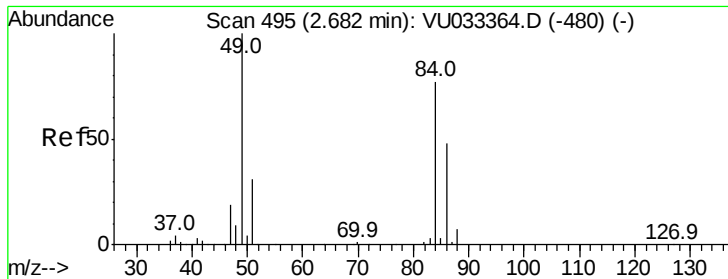
78 9.8 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0





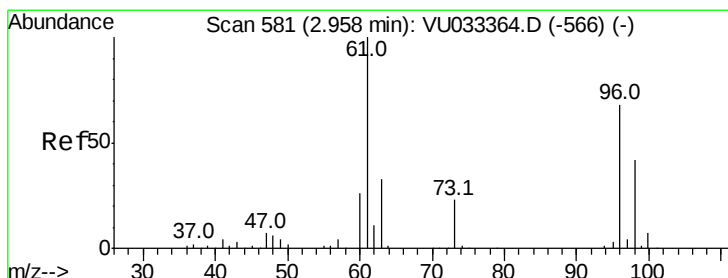
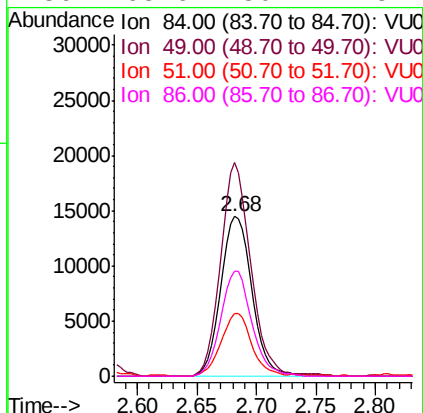
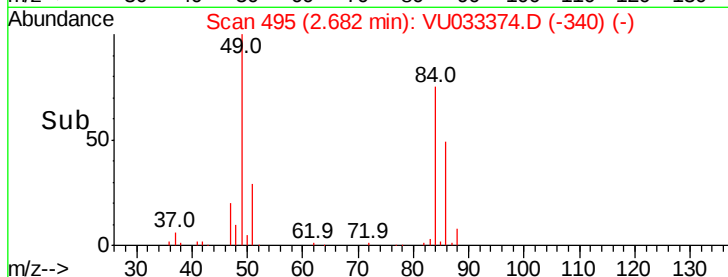
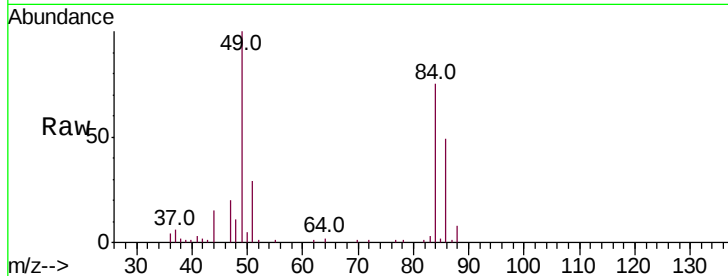
#15
Methylene Chloride
Concen: 1.899 ug/l
RT: 2.68 min Scan# 495
Delta R.T. -0.00 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Instrument :
MSVOA_U
ClientSampleId :
VU0723WBSD01

Tot Ion:	84	Resp:	26509
Ion	Ratio	Lower	Upper
84	100		
49	133.9	103.5	155.3
51	39.0	0.0	80.4
86	65.6	50.1	75.1

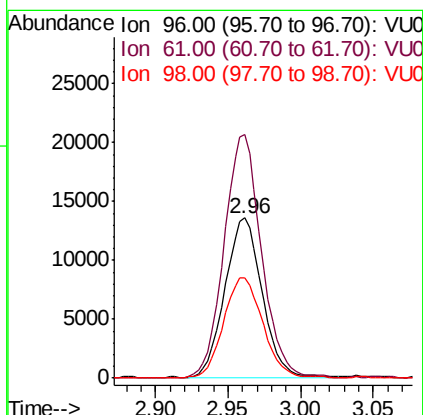
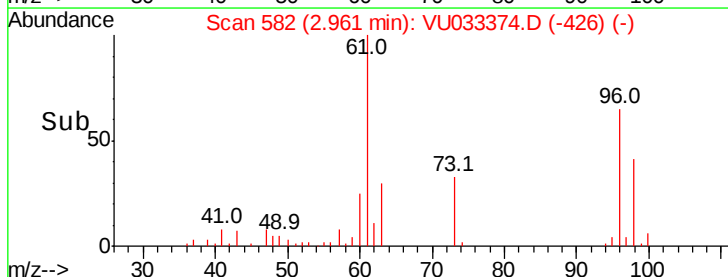
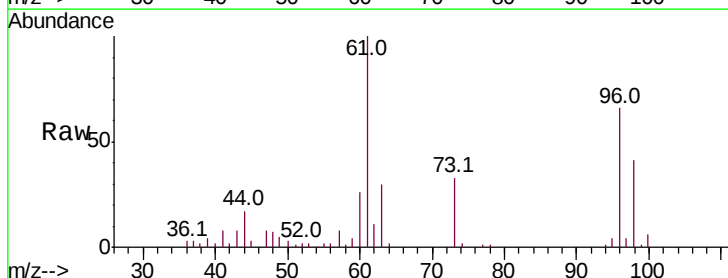
Manual Integrations
APPROVED

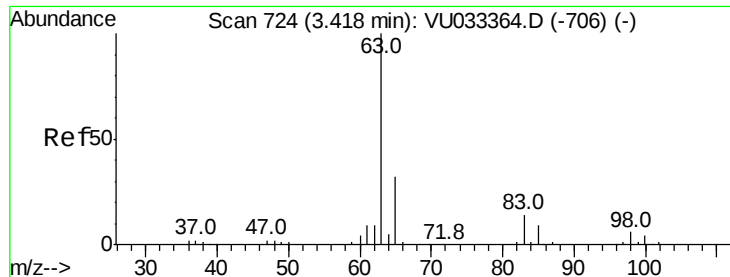
MMDadoda
7/25/2019 11:15:48 AM



#16
trans-1,2-Dichloroethene
Concen: 1.979 ug/l
RT: 2.96 min Scan# 582
Delta R.T. 0.00 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Tgt Ion:	96	Resp:	24328
Ion	Ratio	Lower	Upper
96	100		
61	152.3	118.0	177.0
98	62.4	49.4	74.2





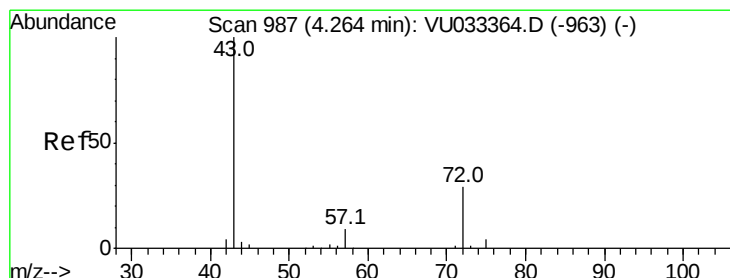
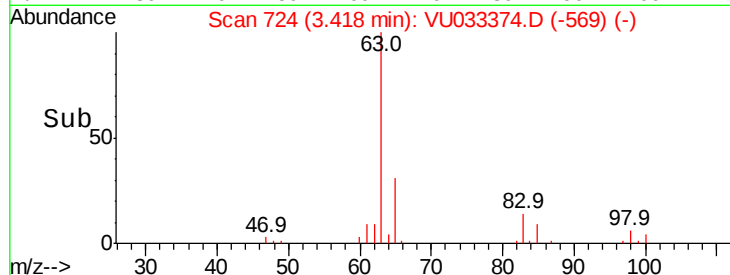
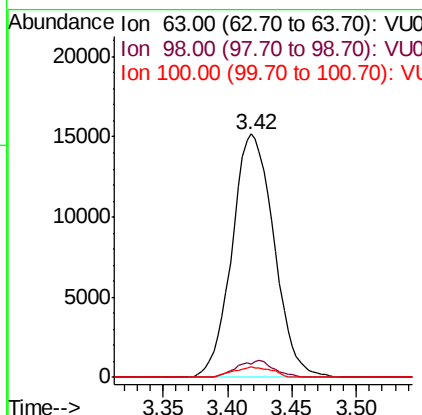
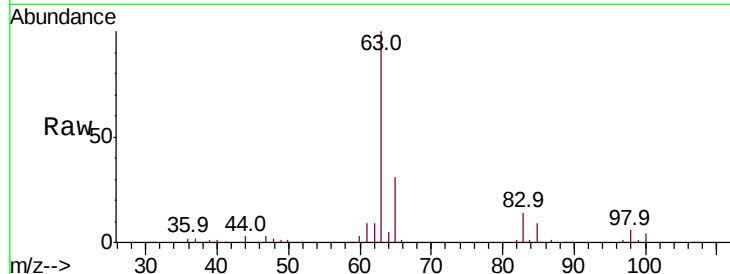
#17
 1,1-Dichloroethane
 Concen: 2.080 ug/l
 RT: 3.42 min Scan# 724
 Delta R.T. -0.00 min
 Lab File: VU033374.D
 Acq: 23 Jul 2019 11:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0723WBSD01

Tot Ion:	63	Resp:	34325
Ion	Ratio	Lower	Upper
63	100		
98	5.7	3.2	9.6
100	4.1	2.1	6.2

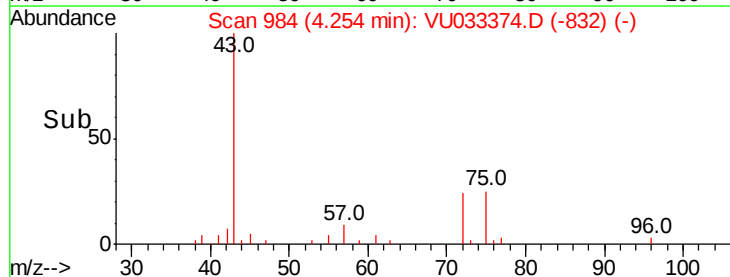
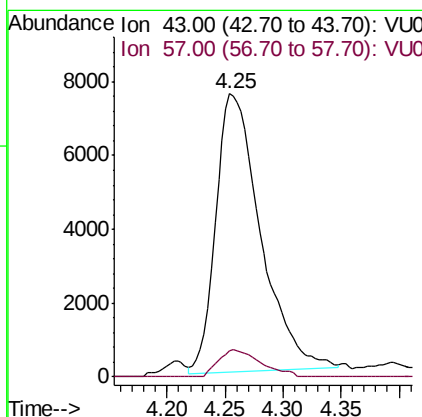
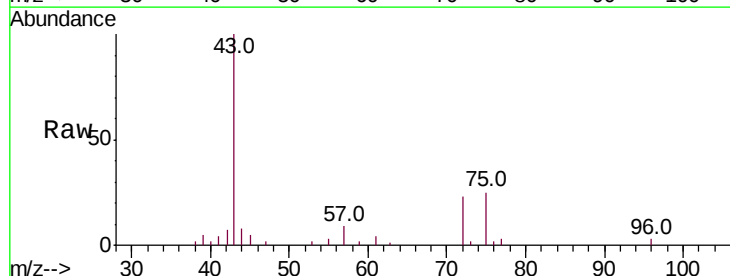
Manual Integrations
 APPROVED

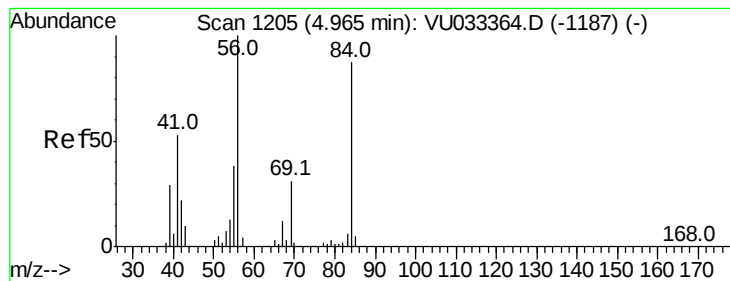
MMDadoda
 7/25/2019 11:15:48 AM



#18
 2-Butanone
 Concen: 8.598 ug/l
 RT: 4.25 min Scan# 984
 Delta R.T. -0.01 min
 Lab File: VU033374.D
 Acq: 23 Jul 2019 11:54

Tgt Ion:	43	Resp:	20235
Ion	Ratio	Lower	Upper
43	100		
57	9.4	0.0	17.0





#19

Cyclohexane

Concen: 1.931 ug/l m

RT: 4.97 min Scan# 1206

Delta R.T. 0.00 min

Lab File: VU033374.D

Acq: 23 Jul 2019 11:54

Instrument :

MSVOA_U

ClientSampleId :

VU0723WBSD01

Tot Ion: 56 Resp: 23380

Ion Ratio Lower Upper

56 100

69 31.3 25.0 37.4

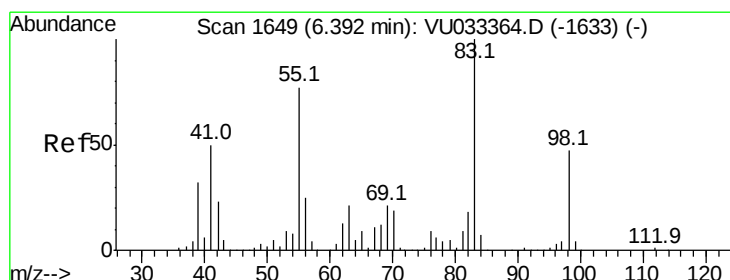
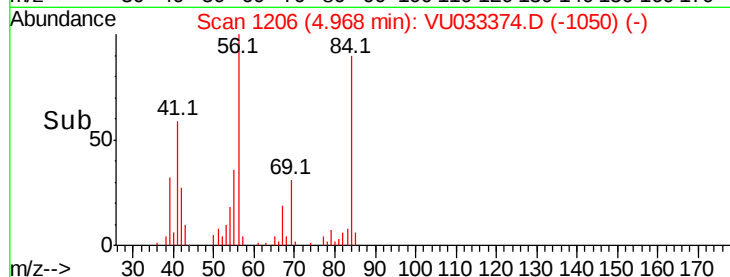
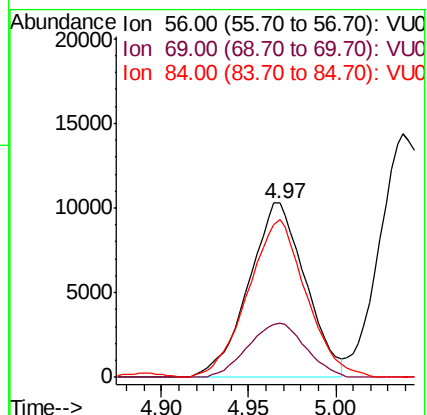
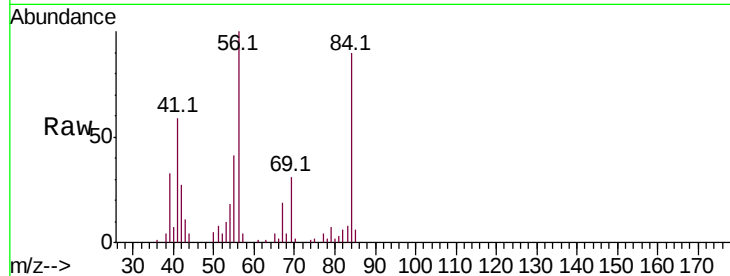
84 92.0 69.8 104.6

Manual Integrations

APPROVED

MMDadoda

7/25/2019 11:15:48 AM



#20

Methylcyclohexane

Concen: 1.904 ug/l

RT: 6.39 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VU033374.D

Acq: 23 Jul 2019 11:54

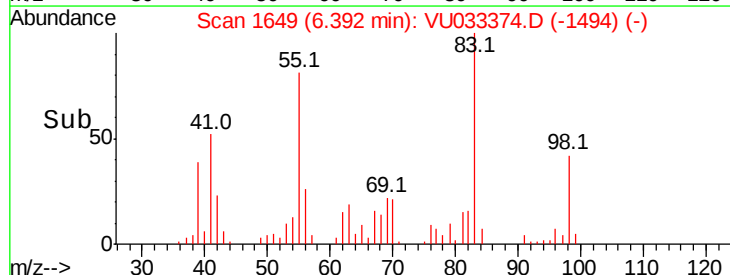
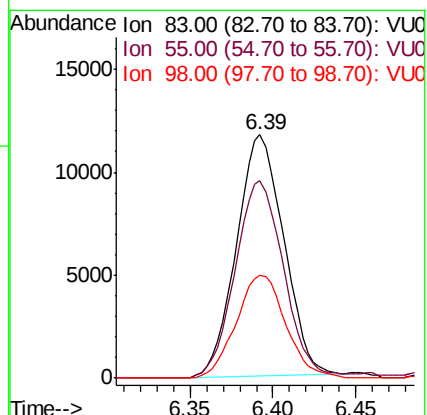
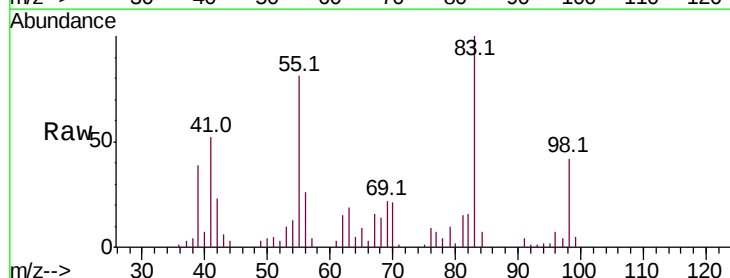
Tgt Ion: 83 Resp: 23212

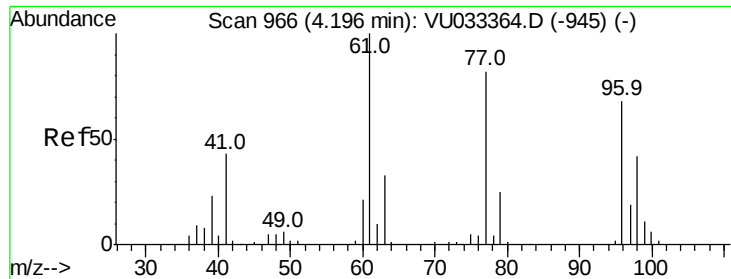
Ion Ratio Lower Upper

83 100

55 82.2 62.3 93.5

98 44.6 37.4 56.0





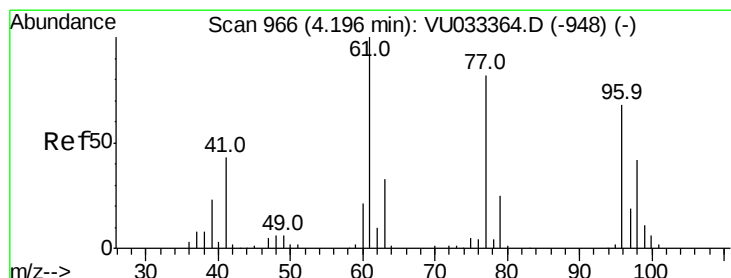
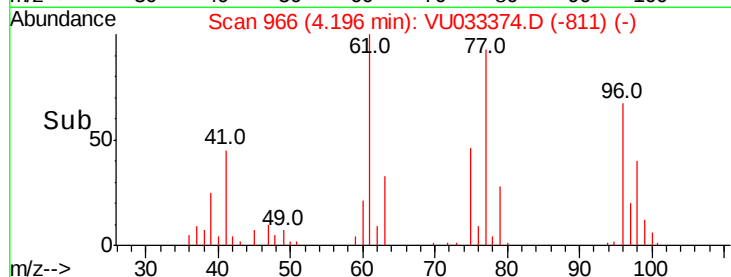
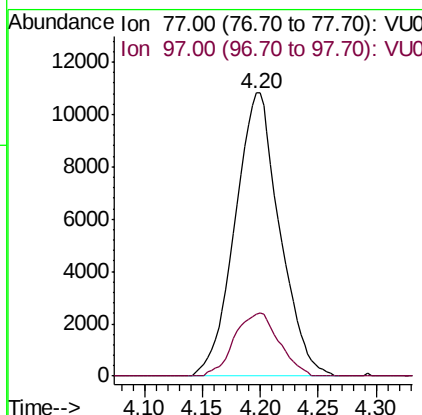
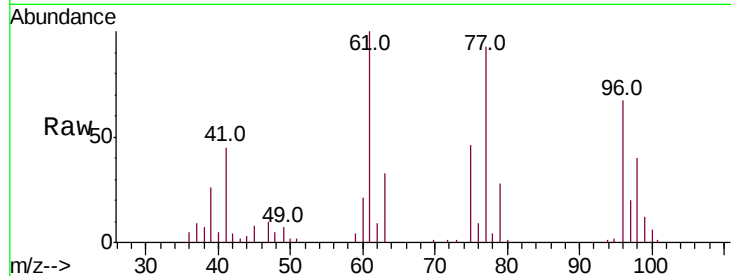
#21
2,2-Dichloropropane
Concen: 2.072 ug/l
RT: 4.20 min Scan# 966
Delta R.T. -0.00 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Instrument :
MSVOA_U
ClientSampleId :
VU0723WBSD01

Tot Ion: 77 Resp: 28966
Ion Ratio Lower Upper
77 100
97 22.2 17.8 26.8

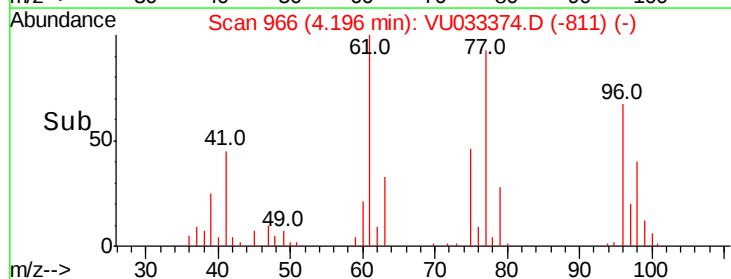
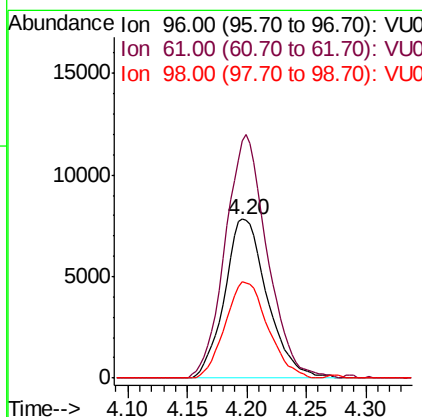
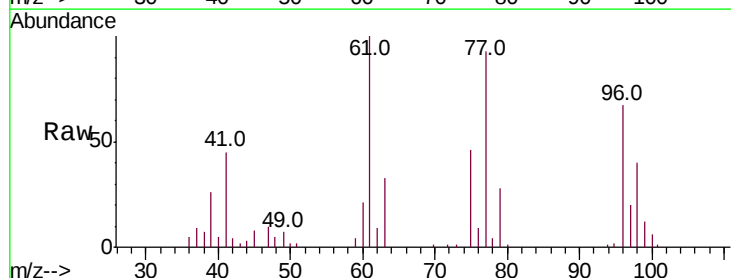
Manual Integrations
APPROVED

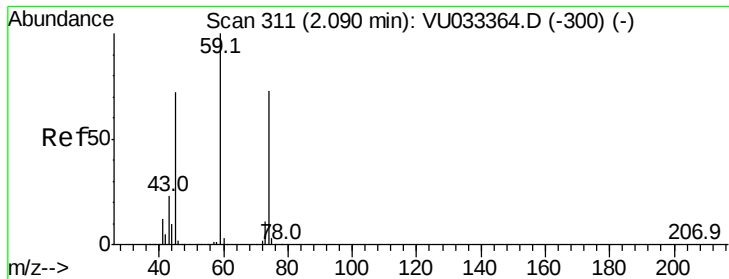
MMDadoda
7/25/2019 11:15:48 AM



#22
cis-1,2-Dichloroethene
Concen: 2.084 ug/l
RT: 4.20 min Scan# 966
Delta R.T. -0.00 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Tgt Ion: 96 Resp: 19420
Ion Ratio Lower Upper
96 100
61 150.7 0.0 376.3
98 60.6 31.9 95.9





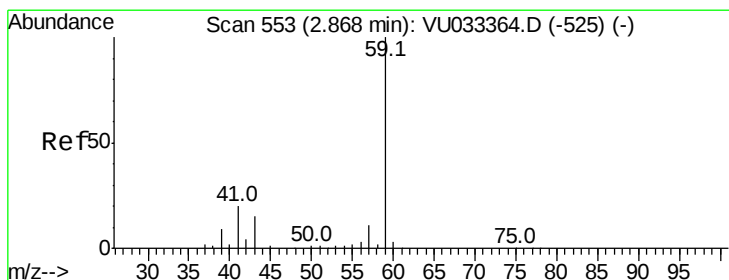
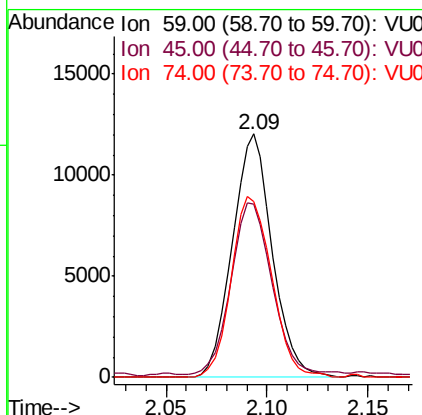
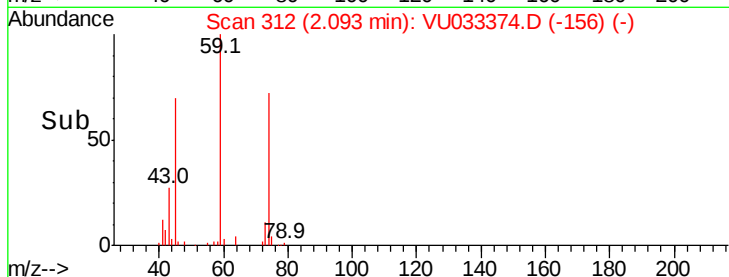
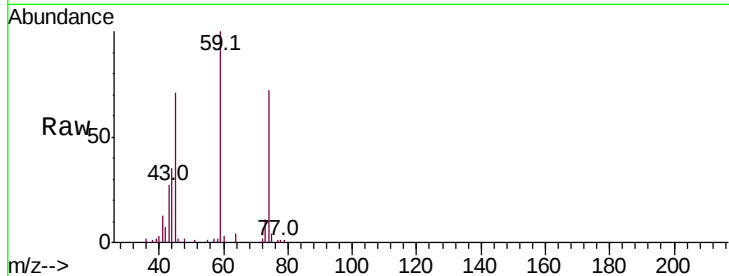
#23
Diethyl Ether
Concen: 1.869 ug/l
RT: 2.09 min Scan# 312
Delta R.T. 0.00 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Instrument :
MSVOA_U
ClientSampleId :
VU0723WBSD01

Tot Ion	59	Ratio	Lower	Upper
16682	100			
45	72.8	57.6	86.4	
74	75.3	57.8	86.6	

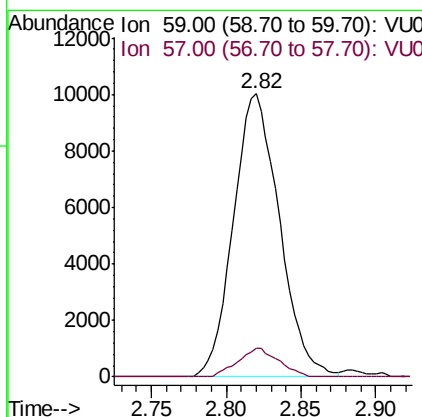
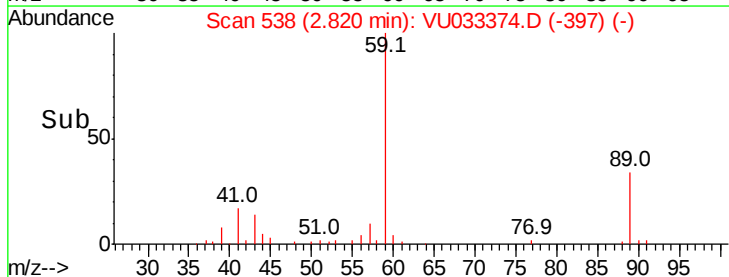
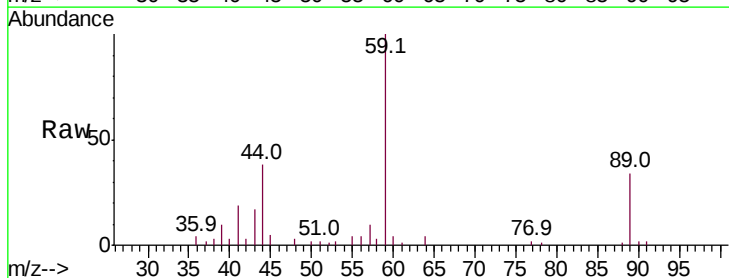
Manual Integrations
APPROVED

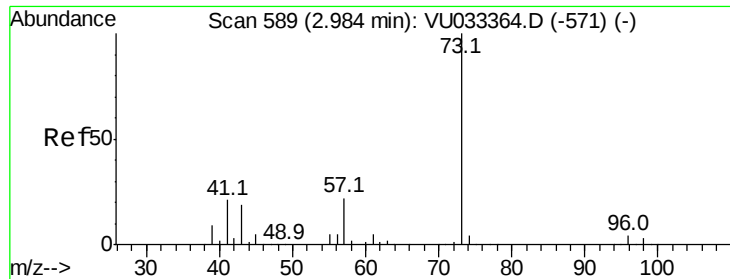
MMDadoda
7/25/2019 11:15:48 AM



#24
tert-Butyl Alcohol
Concen: 15.008 ug/l
RT: 2.82 min Scan# 538
Delta R.T. -0.05 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Tgt Ion	59	Ratio	Lower	Upper
21469	100			
57	9.0	7.8	11.8	





#25

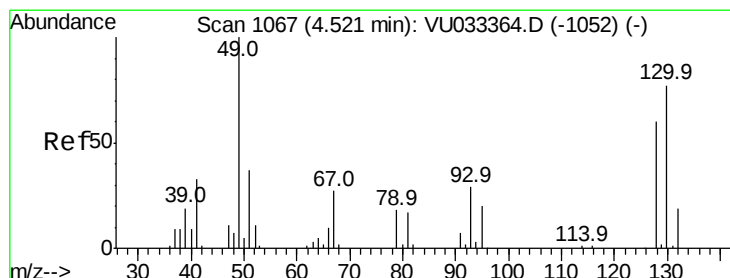
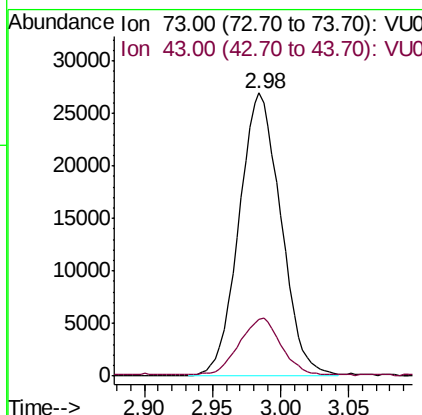
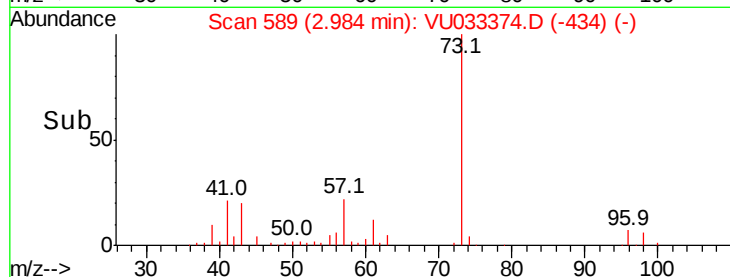
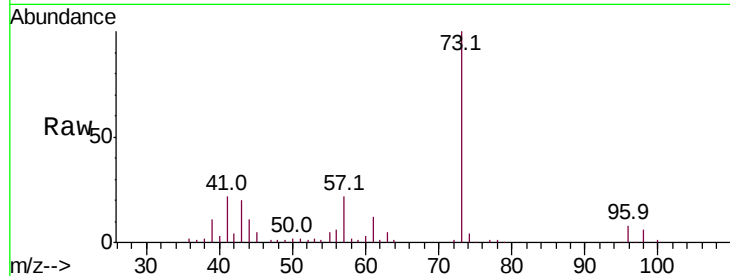
Methyl tert-Butyl Ether
 Concen: 1.927 ug/l
 RT: 2.98 min Scan# 589
 Delta R.T. -0.00 min
 Lab File: VU033374.D
 Acq: 23 Jul 2019 11:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0723WBSD01

Tot Ion: 73 Resp: 57440
 Ion Ratio Lower Upper
 73 100
 43 20.2 16.6 24.8

Manual Integrations
 APPROVED

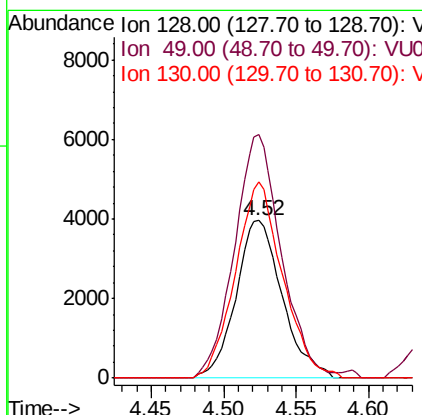
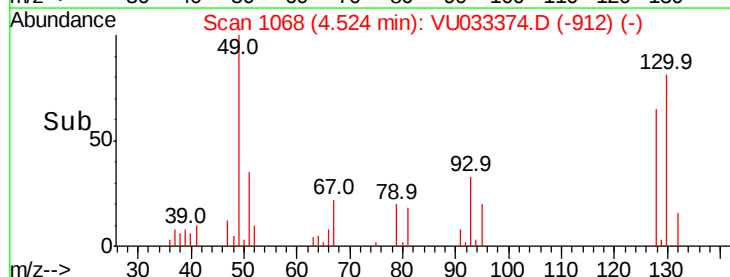
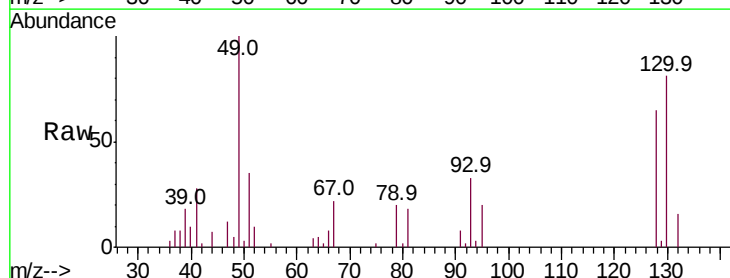
MMDadoda
 7/25/2019 11:15:48 AM

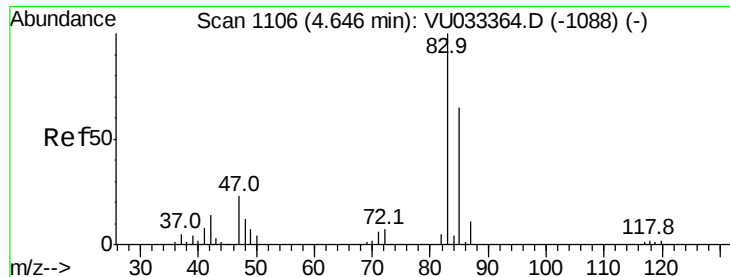


#26

Bromochloromethane
 Concen: 2.151 ug/l
 RT: 4.52 min Scan# 1068
 Delta R.T. 0.00 min
 Lab File: VU033374.D
 Acq: 23 Jul 2019 11:54

Tgt Ion: 128 Resp: 8811
 Ion Ratio Lower Upper
 128 100
 49 156.1 0.0 333.4
 130 126.5 103.4 155.2





#27

Chloroform

Concen: 1.988 ug/l

RT: 4.65 min Scan# 1107

Delta R.T. 0.00 min

Lab File: VU033374.D

Acq: 23 Jul 2019 11:54

Instrument :

MSVOA_U

ClientSampleId :

VU0723WBSD01

Tot Ion: 83 Resp: 37482

Ion Ratio Lower Upper

83 100

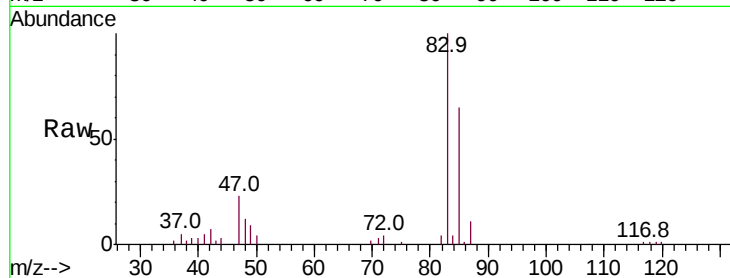
85 65.0 0.0 129.8

Manual Integrations

APPROVED

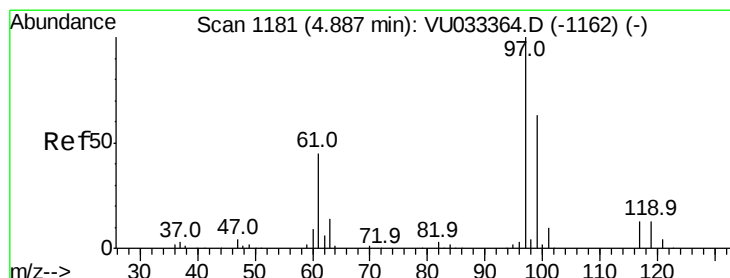
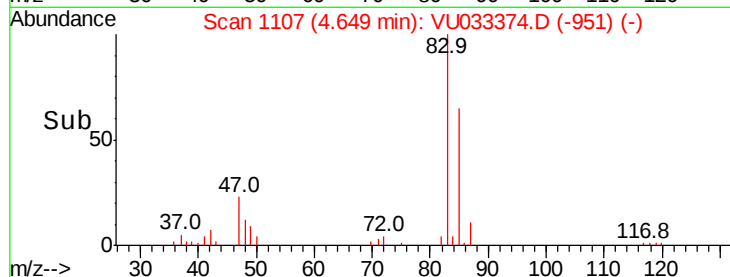
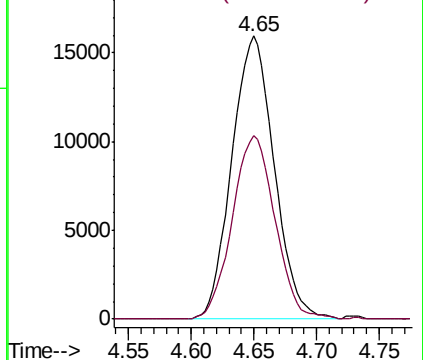
MMDadoda

7/25/2019 11:15:48 AM



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#28

1,1,1-Trichloroethane

Concen: 2.031 ug/l

RT: 4.89 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VU033374.D

Acq: 23 Jul 2019 11:54

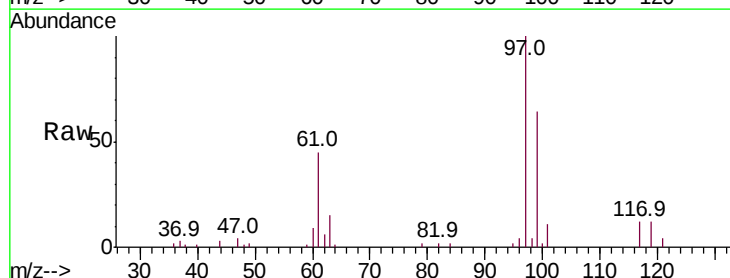
Tgt Ion: 97 Resp: 29657

Ion Ratio Lower Upper

97 100

99 63.0 31.9 95.5

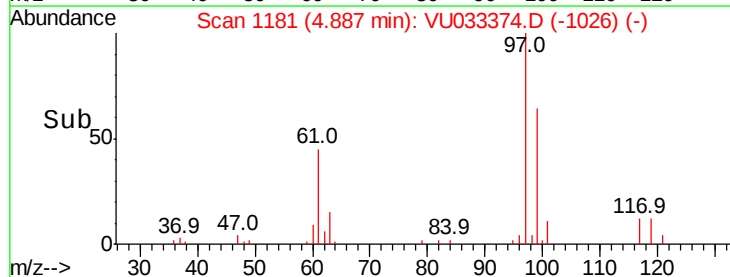
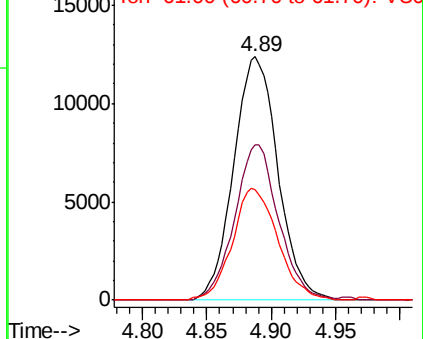
61 47.0 22.7 68.0

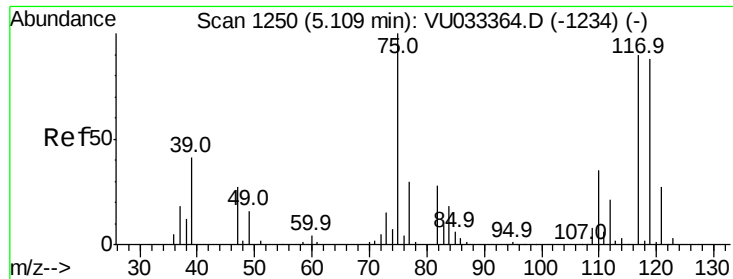


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 61.00 (60.70 to 61.70): VU0





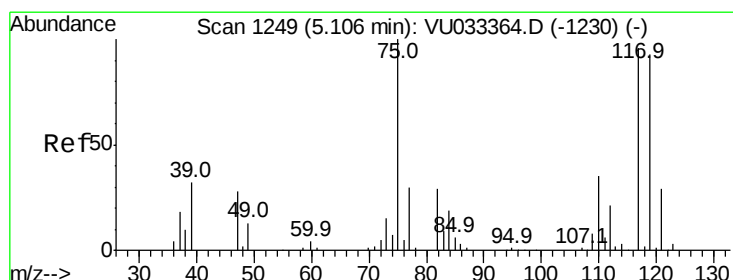
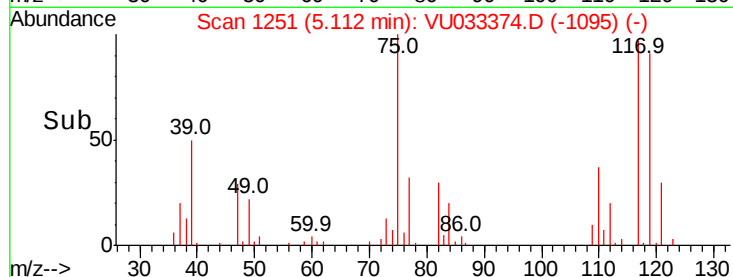
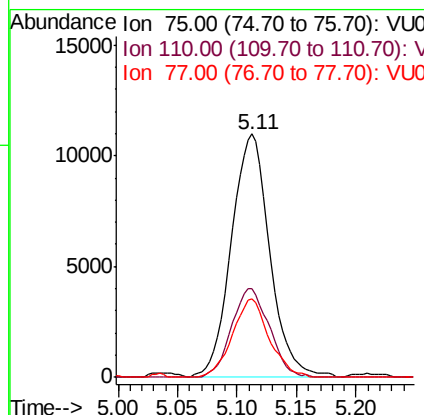
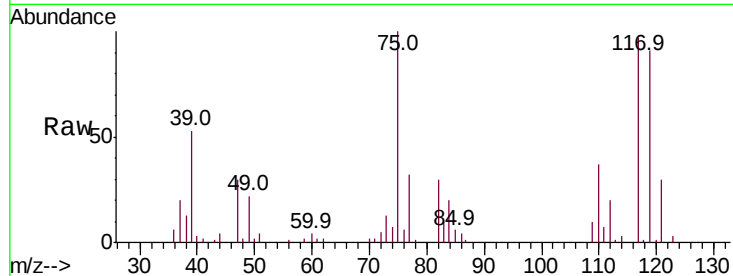
#29
 1,1-Dichloropropene
 Concen: 2.042 ug/l
 RT: 5.11 min Scan# 1251
 Delta R.T. 0.00 min
 Lab File: VU033374.D
 Acq: 23 Jul 2019 11:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0723WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
110	35.7	17.5	52.6
77	30.8	25.1	37.7

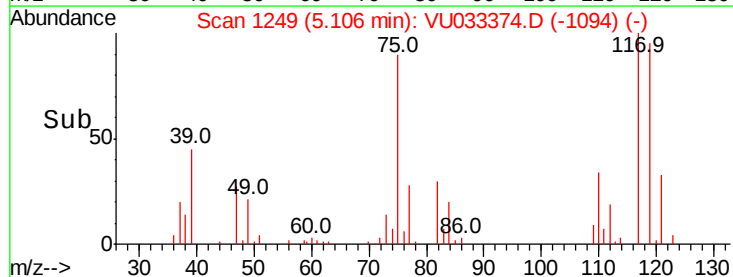
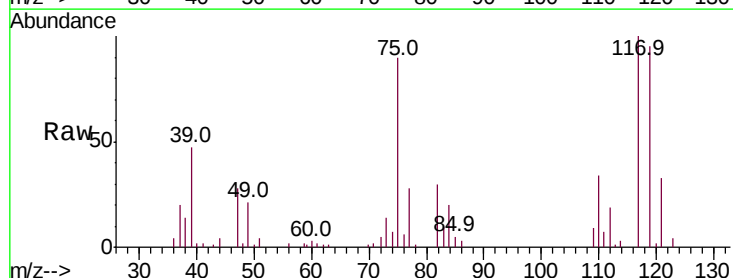
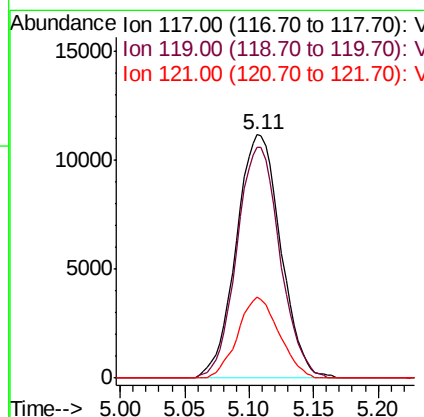
Manual Integrations
 APPROVED

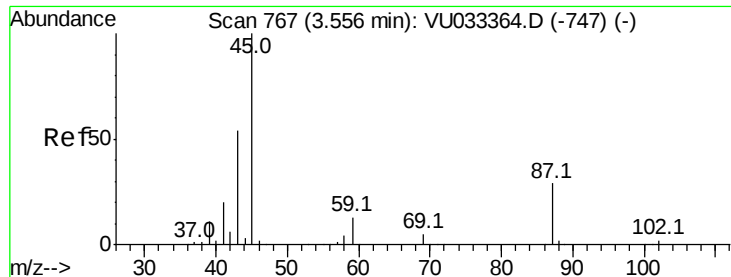
MMDadoda
 7/25/2019 11:15:48 AM



#30
 Carbon Tetrachloride
 Concen: 2.085 ug/l
 RT: 5.11 min Scan# 1249
 Delta R.T. -0.00 min
 Lab File: VU033374.D
 Acq: 23 Jul 2019 11:54

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.7	77.9	116.9
121	33.2	24.0	36.0





#31

Isopropyl Ether

Concen: 1.972 ug/l

RT: 3.56 min Scan# 767

Delta R.T. -0.00 min

Lab File: VU033374.D

Acq: 23 Jul 2019 11:54

Instrument :

MSVOA_U

ClientSampleId :

VU0723WBSD01

Tot Ion: 45 Resp: 41124

Ion Ratio Lower Upper

45 100

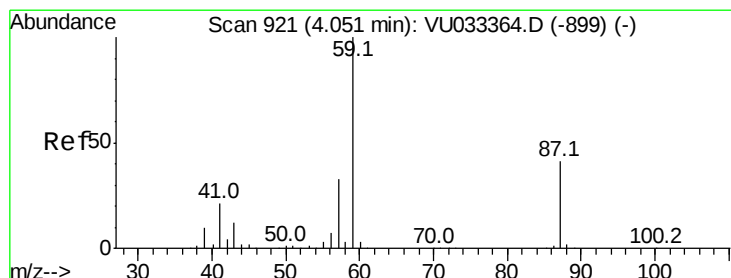
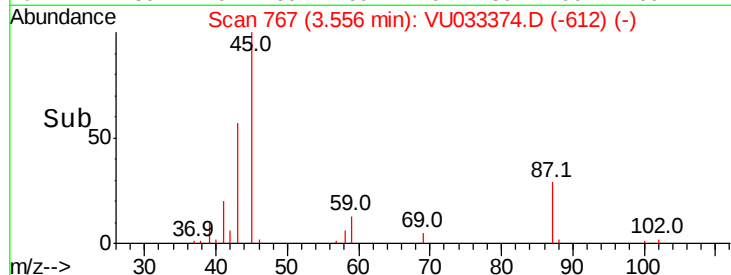
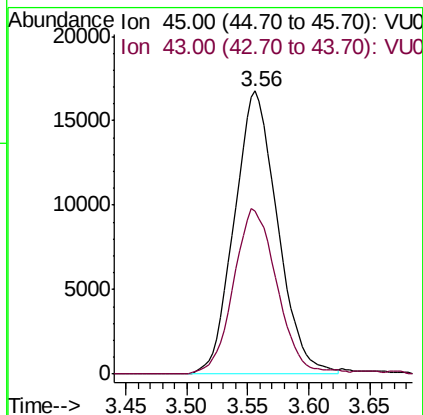
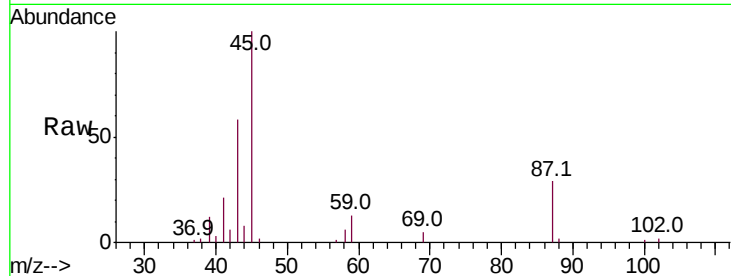
43 58.5 27.8 83.3

Manual Integrations

APPROVED

MMDadoda

7/25/2019 11:15:48 AM



#32

Ethyl-t-butyl ether

Concen: 1.904 ug/l

RT: 4.05 min Scan# 920

Delta R.T. -0.00 min

Lab File: VU033374.D

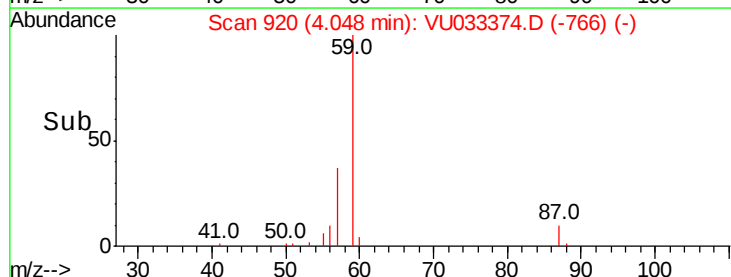
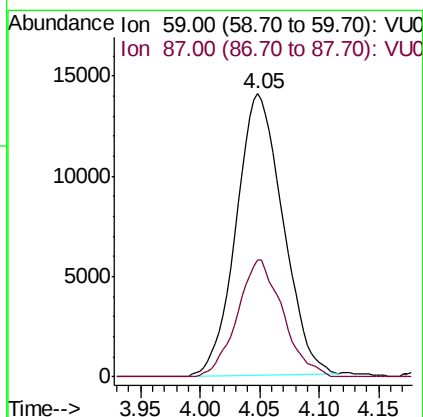
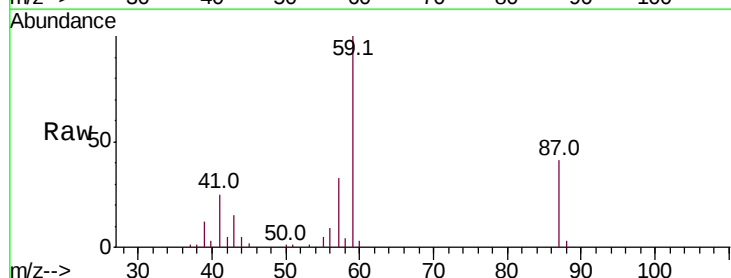
Acq: 23 Jul 2019 11:54

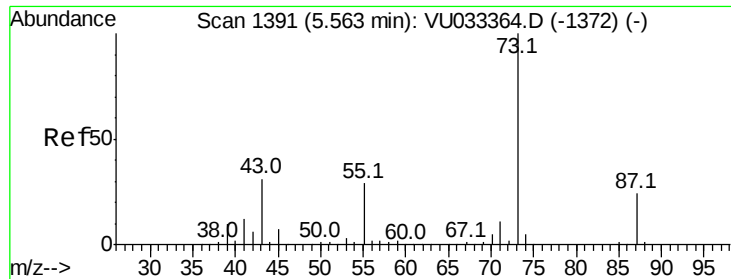
Tgt Ion: 59 Resp: 38177

Ion Ratio Lower Upper

59 100

87 40.5 33.8 50.6





#33

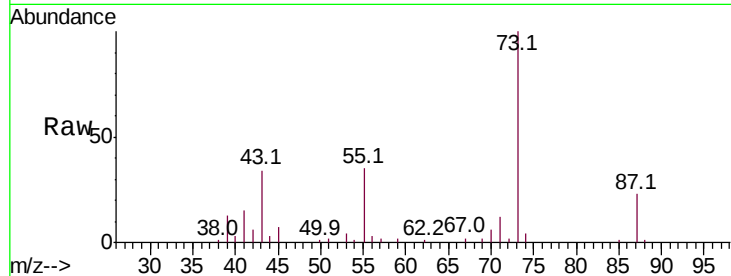
Tert-Amvl methvl ether
Concen: 1.888 ug/l
RT: 5.56 min Scan# 1391
Delta R.T. -0.00 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Instrument :
MSVOA_U
ClientSampleId :
VU0723WBSD01

Tot Ion	Ratio	Lower	Upper
73	100		
87	25.0	18.9	28.3
71	12.2	9.3	13.9

Manual Integrations
APPROVED

MMDadoda
7/25/2019 11:15:48 AM

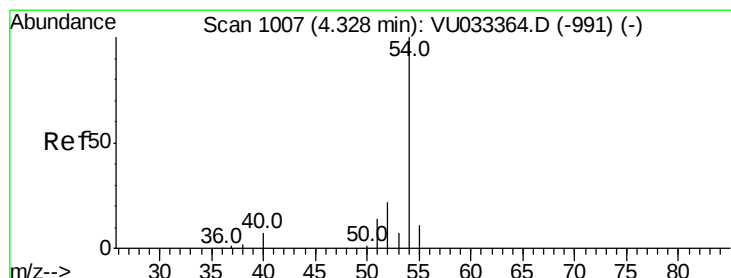
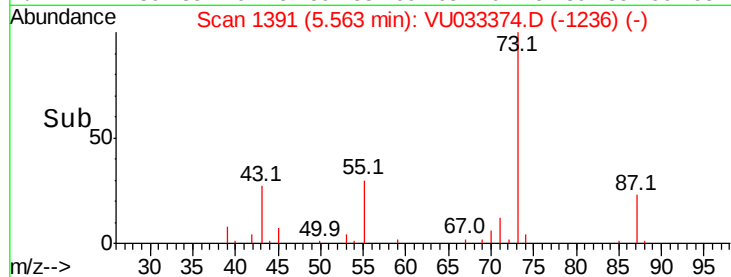
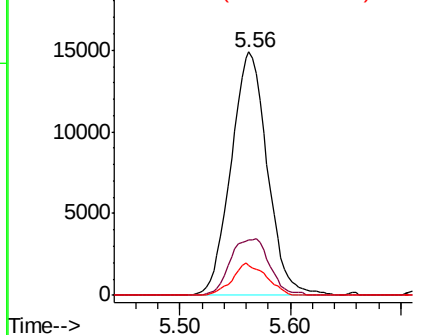


Abundance

Ion 73.00 (72.70 to 73.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

Ion 71.00 (70.70 to 71.70): VU0



#34

Propionitrile
Concen: 8.967 ug/l
RT: 4.32 min Scan# 1004
Delta R.T. -0.01 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Tgt Ion	Ratio	Lower	Upper
54	100		
52	21.6	17.1	25.7
55	19.1	11.6	17.4
40	2.0	3.5	5.3

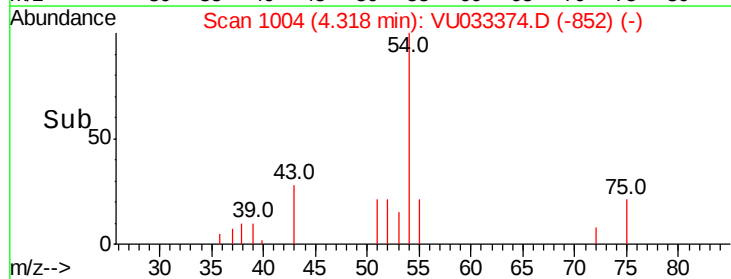
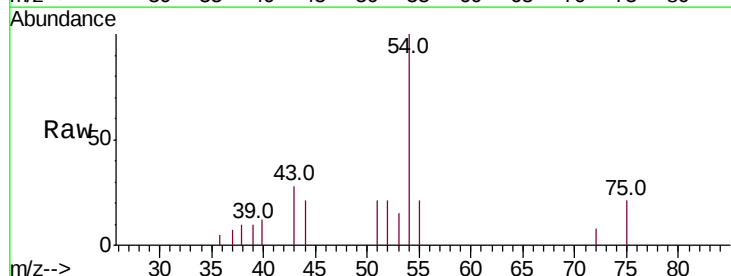
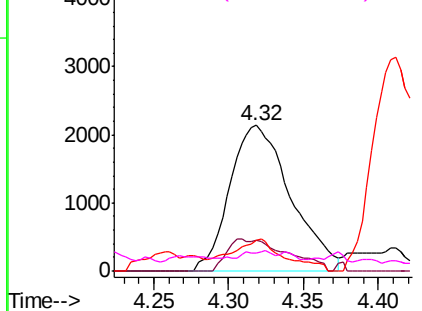
Abundance

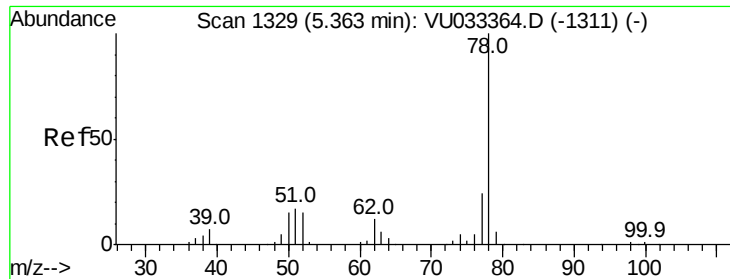
Ion 54.00 (53.70 to 54.70): VU0

Ion 52.00 (51.70 to 52.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 40.00 (39.70 to 40.70): VU0





#35

Benzene

Concen: 2.023 ug/l

RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VU033374.D

Acq: 23 Jul 2019 11:54

Instrument :

MSVOA_U

ClientSampleId :

VU0723WBSD01

Tot Ion: 78 Resp: 70396

Ion Ratio Lower Upper

78 100

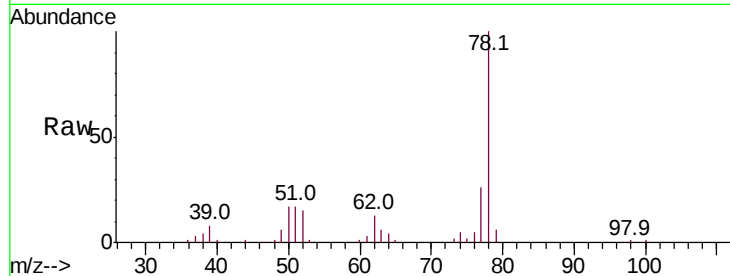
77 25.7 19.4 29.2

Manual Integrations

APPROVED

MMDadoda

7/25/2019 11:15:48 AM



Abundance Ion 78.10 (77.80 to 78.80): VU033364.D (-1311) (-)

Ion 77.00 (76.70 to 77.70): VU033364.D (-1311) (-)

5.37

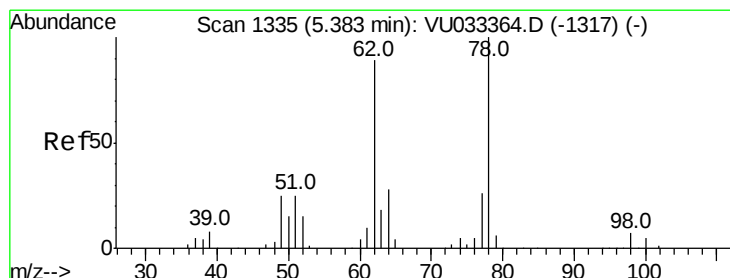
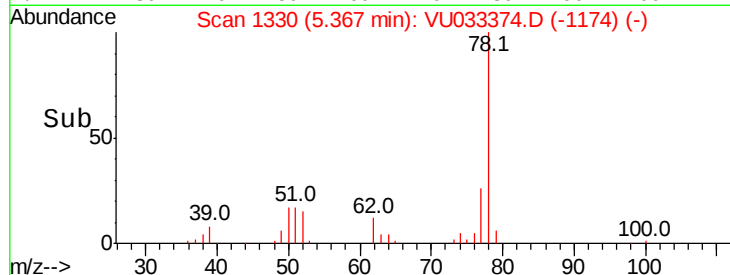
30000

20000

10000

0

Time--> 5.25 5.30 5.35 5.40 5.45



#36

1,2-Dichloroethane

Concen: 1.949 ug/l

RT: 5.38 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VU033374.D

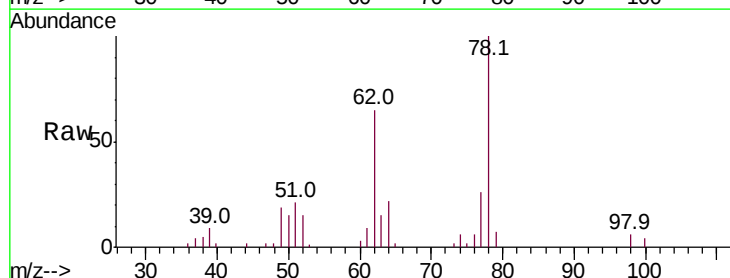
Acq: 23 Jul 2019 11:54

Tgt Ion: 62 Resp: 22569

Ion Ratio Lower Upper

62 100

98 8.3 6.5 9.7



Abundance Ion 62.00 (61.70 to 62.70): VU033364.D (-1317) (-)

Ion 98.00 (97.70 to 98.70): VU033364.D (-1317) (-)

5.38

12000

10000

8000

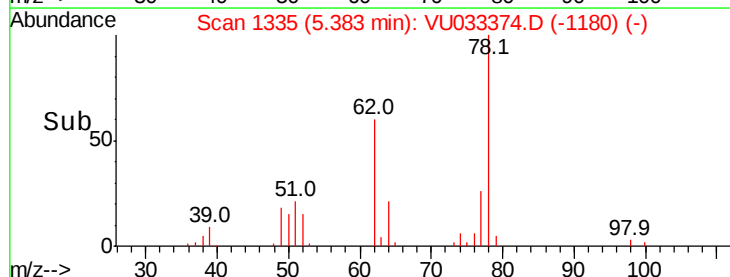
6000

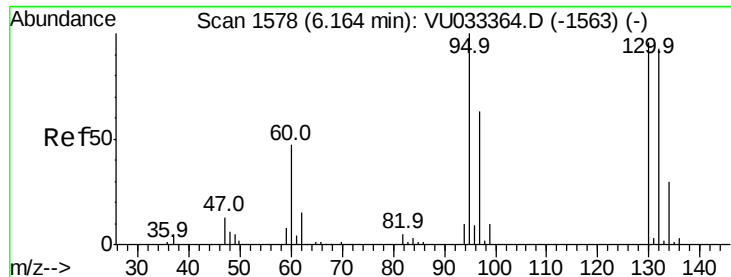
4000

2000

0

Time--> 5.30 5.35 5.40 5.45





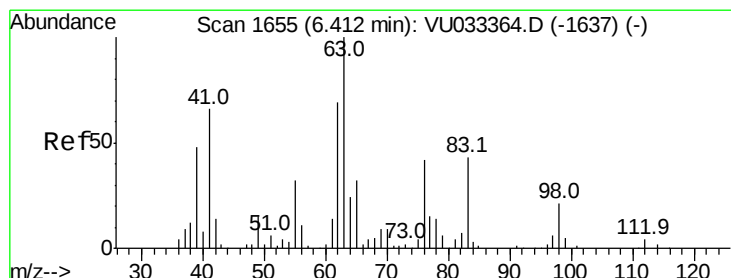
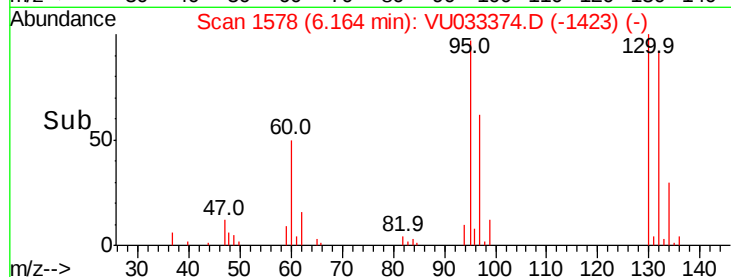
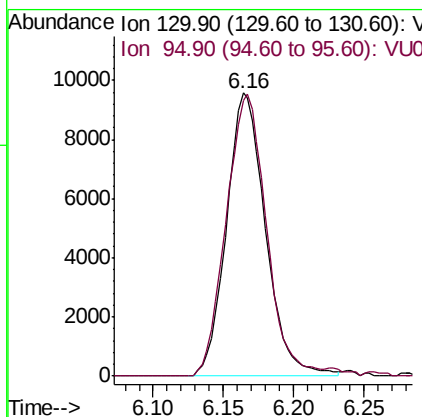
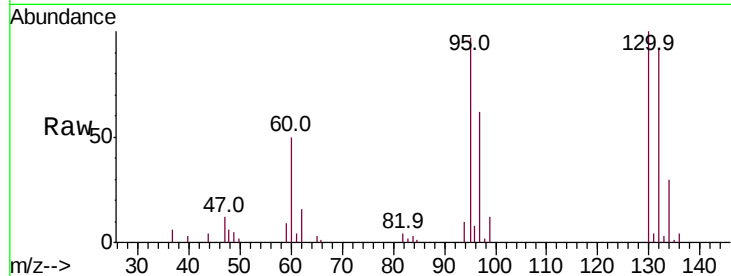
#37
 Trichloroethene
 Concen: 2.016 ug/l
 RT: 6.16 min Scan# 1578
 Delta R.T. -0.00 min
 Lab File: VU033374.D
 Acq: 23 Jul 2019 11:54

Instrument :
 MSVOA_U
 ClientSampleID :
 VU0723WBSD01

Tot Ion:130 Resp: 18517
 Ion Ratio Lower Upper
 130 100
 95 97.4 83.4 125.0

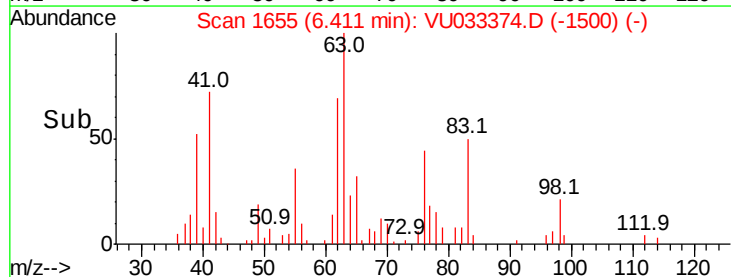
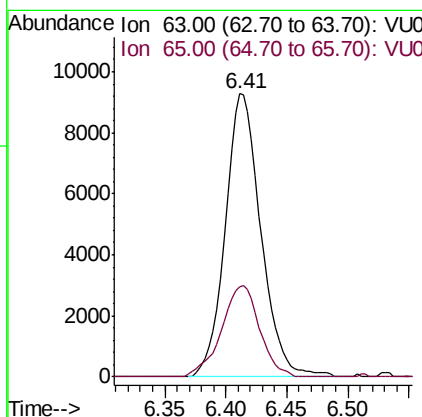
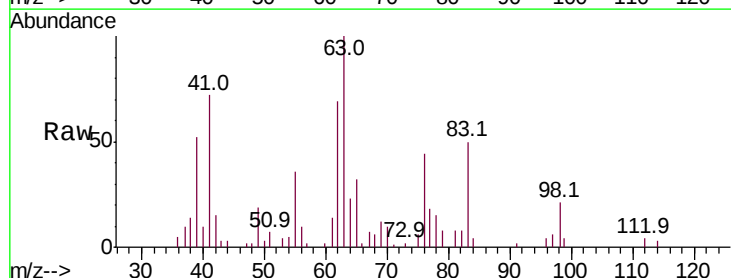
Manual Integrations
 APPROVED

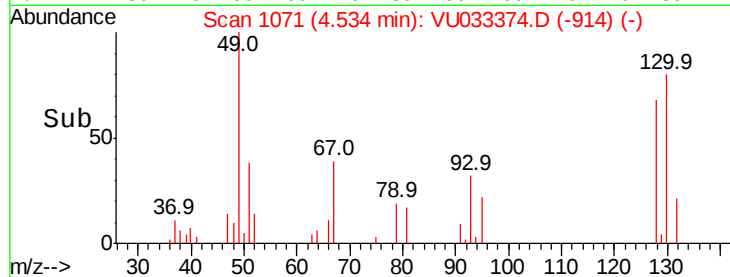
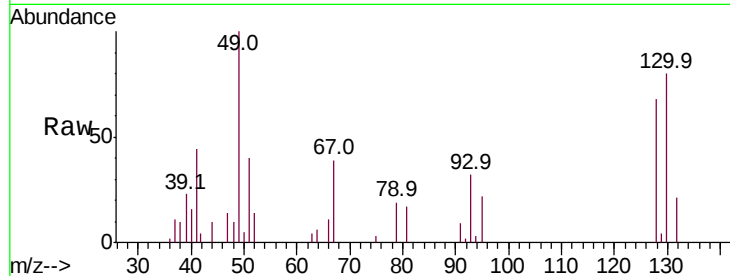
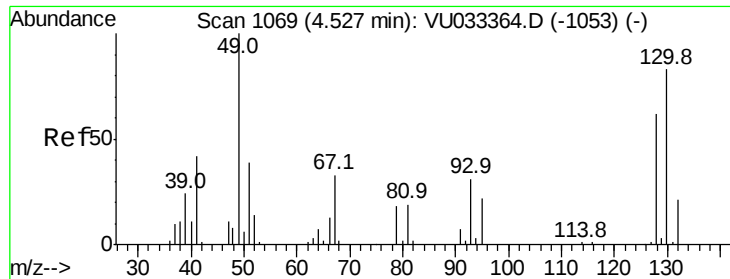
MMDadoda
 7/25/2019 11:15:48 AM



#38
 1,2-Dichloropropane
 Concen: 1.971 ug/l
 RT: 6.41 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: VU033374.D
 Acq: 23 Jul 2019 11:54

Tgt Ion: 63 Resp: 18924
 Ion Ratio Lower Upper
 63 100
 65 32.0 25.7 38.5





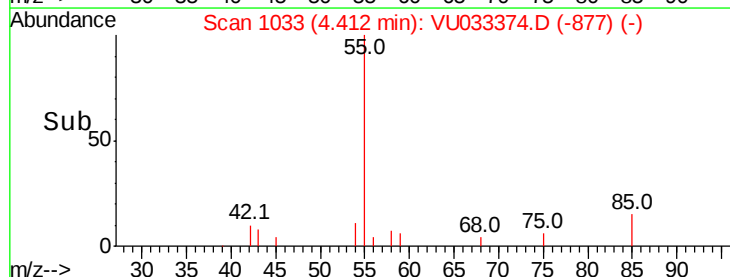
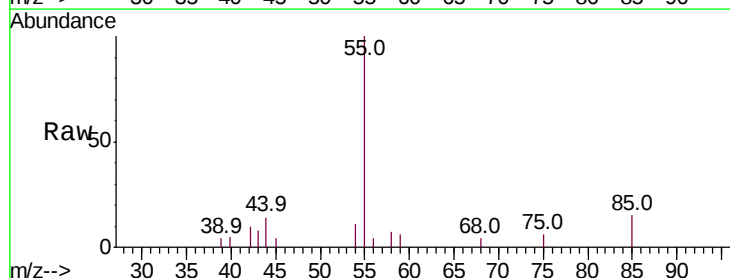
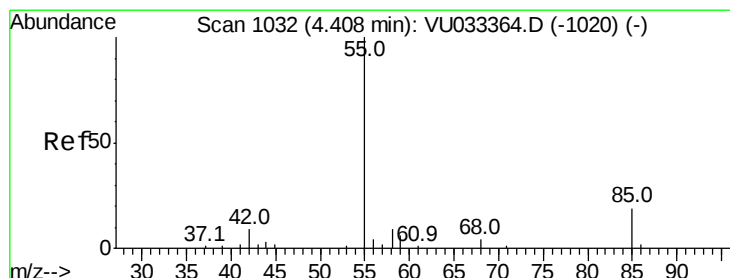
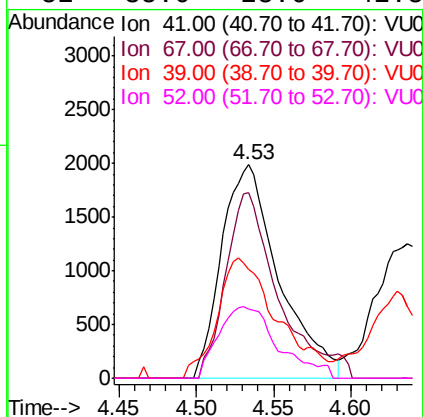
#39
Methacrylonitrile
Concen: 1.907 ug/l
RT: 4.53 min Scan# 1071
Delta R.T. 0.01 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Tot Ion	Ratio	Lower	Upper
41	100		
67	79.7	64.4	96.6
39	59.6	46.8	70.2
52	35.0	28.6	42.8

Instrument :
MSVOA_U
ClientSampleId :
VU0723WBSD01

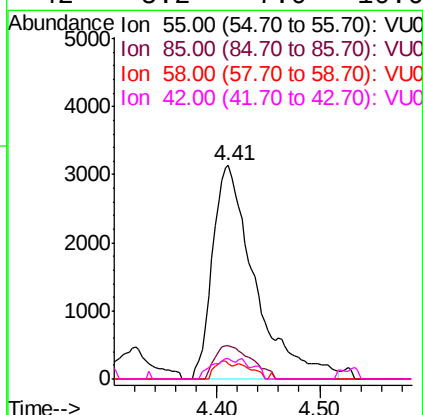
Manual Integrations
APPROVED

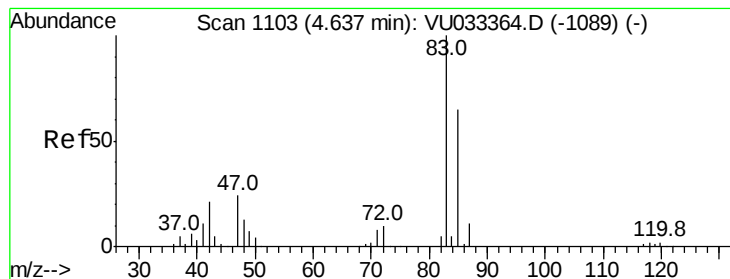
MMDadoda
7/25/2019 11:15:48 AM



#40
Methyl acrylate
Concen: 2.146 ug/l
RT: 4.41 min Scan# 1033
Delta R.T. 0.00 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Tgt Ion	Ratio	Lower	Upper
55	100		
85	13.4	14.8	22.2#
58	3.3	7.1	10.7#
42	5.2	7.0	10.6#





#41

Tetrahydrofuran

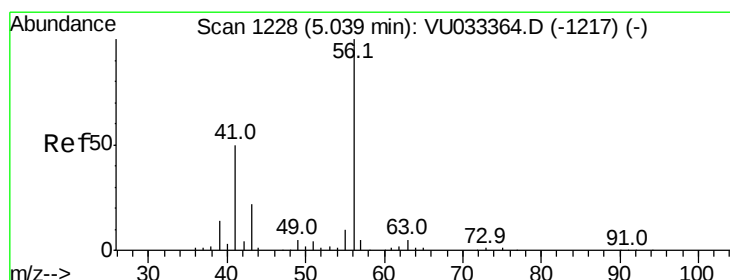
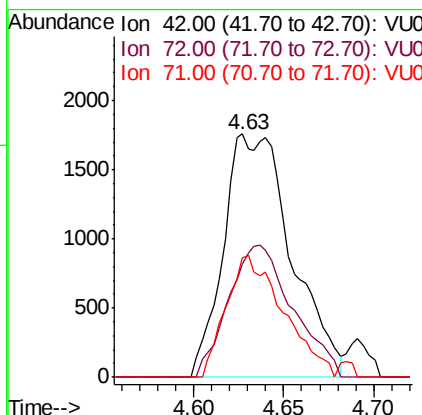
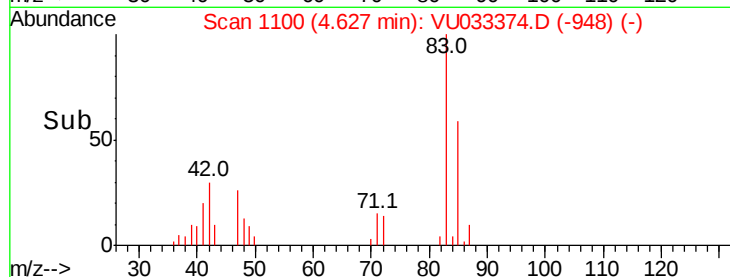
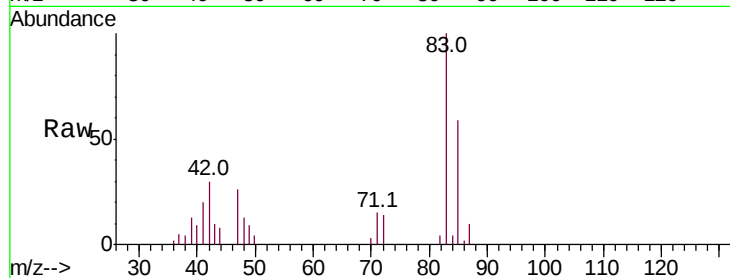
Concen: 3.448 ug/l m
RT: 4.63 min Scan# 1100
Delta R.T. -0.01 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Instrument :
MSVOA_U
ClientSampleId :
VU0723WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	51.3	38.7	58.1
71	42.3	34.6	52.0

Manual Integrations
APPROVED

MMDadoda
7/25/2019 11:15:48 AM

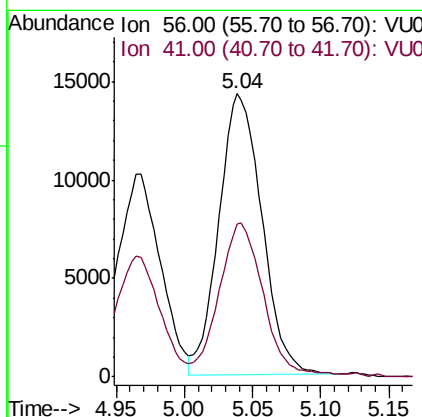
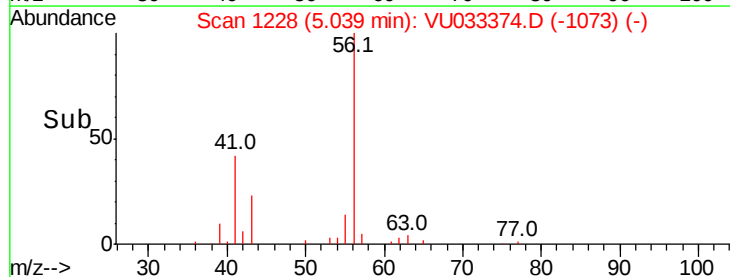
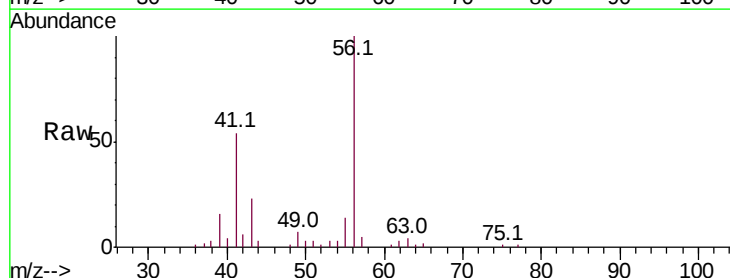


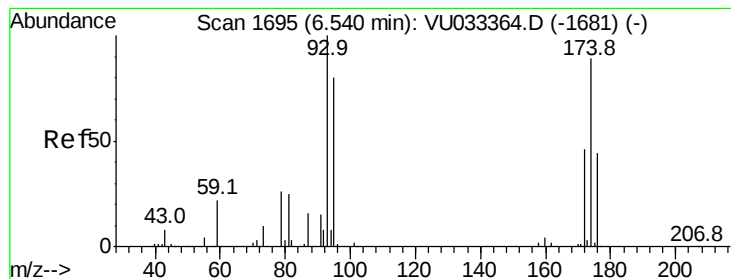
#42

1-Chlorobutane

Concen: 1.934 ug/l
RT: 5.04 min Scan# 1228
Delta R.T. -0.00 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Tgt Ion	Ratio	Lower	Upper
56	100		
41	57.4	25.7	77.1





#43

Dibromomethane

Concen: 1.953 ug/l

RT: 6.54 min Scan# 1696

Delta R.T. 0.00 min

Lab File: VU033374.D

Acq: 23 Jul 2019 11:54

Instrument :

MSVOA_U

ClientSampleId :

VU0723WBSD01

Tot Ion: 93 Resp: 10379

Ion Ratio Lower Upper

93 100

95 83.0 65.3 97.9

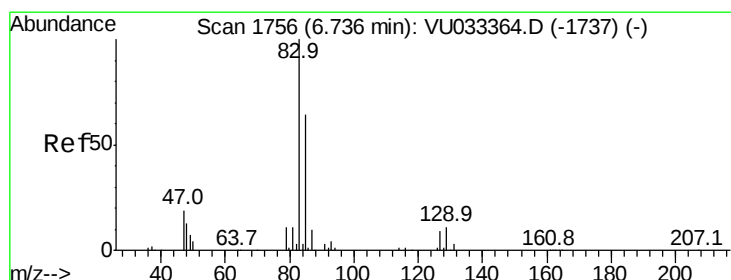
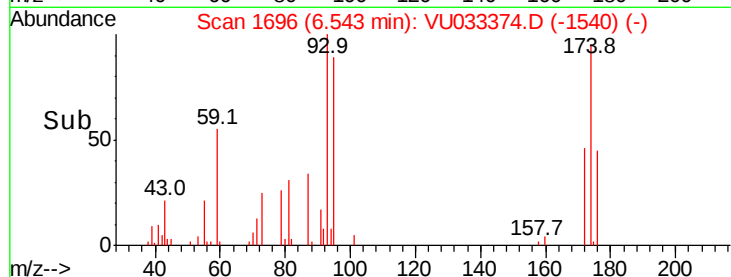
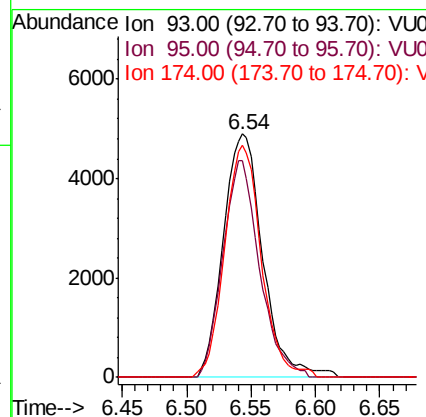
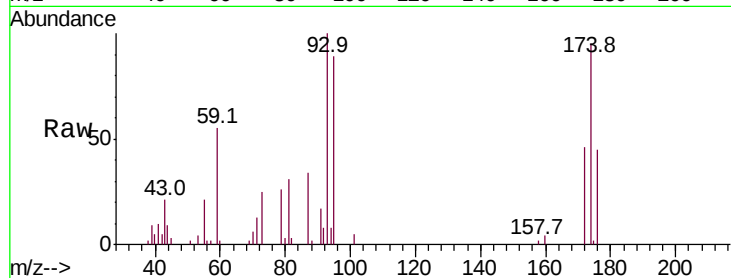
174 88.9 70.7 106.1

Manual Integrations

APPROVED

MMDadoda

7/25/2019 11:15:48 AM



#44

Bromodichloromethane

Concen: 1.982 ug/l

RT: 6.74 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VU033374.D

Acq: 23 Jul 2019 11:54

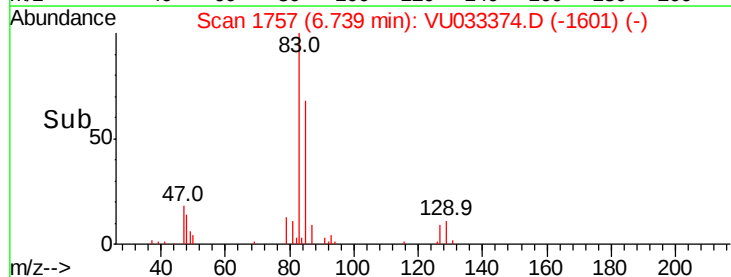
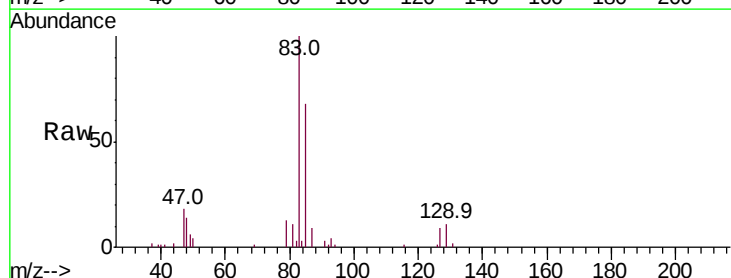
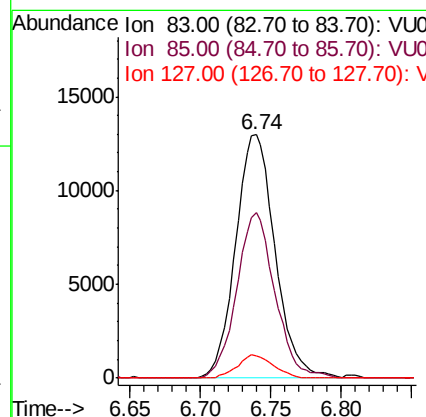
Tgt Ion: 83 Resp: 25395

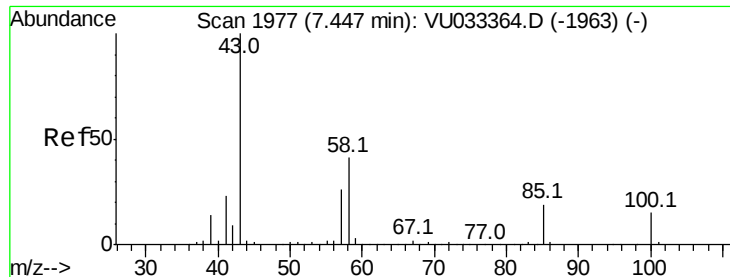
Ion Ratio Lower Upper

83 100

85 68.0 51.1 76.7

127 9.3 7.2 10.8





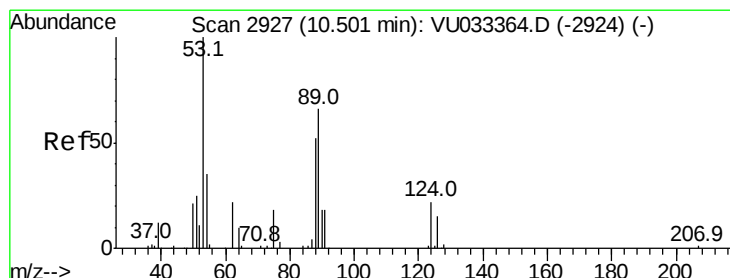
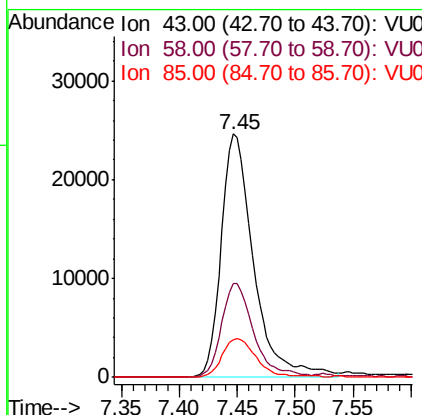
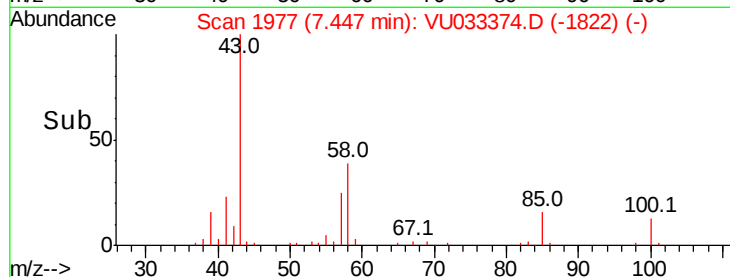
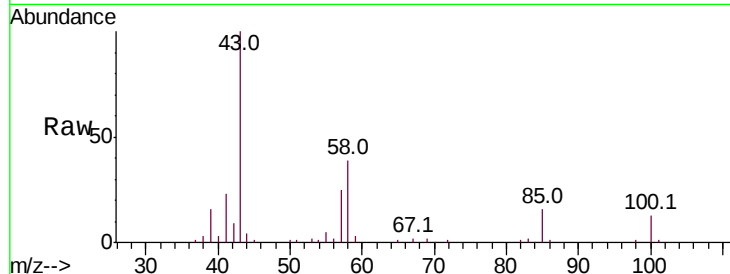
#45
4-Methyl-2-Pentanone
Concen: 8.833 ug/l
RT: 7.45 min Scan# 1977
Delta R.T. -0.00 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Instrument :
MSVOA_U
ClientSampleId :
VU0723WBSD01

Tot Ion	43	Resp	47877
Ion	Ratio	Lower	Upper
43	100		
58	38.1	20.3	60.8
85	16.6	15.0	22.6

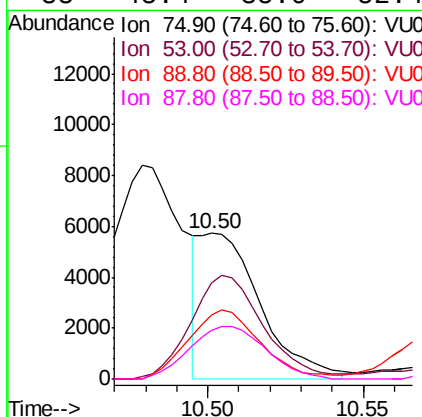
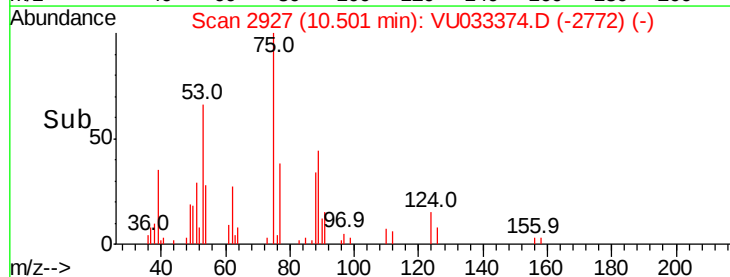
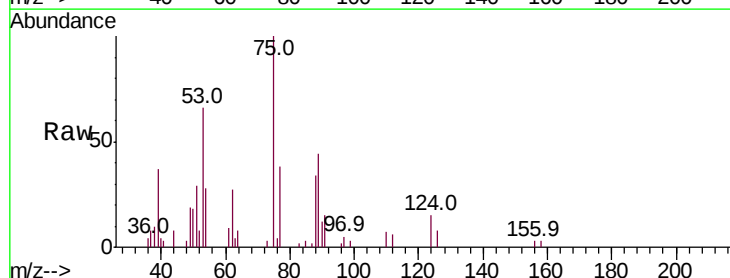
Manual Integrations
APPROVED

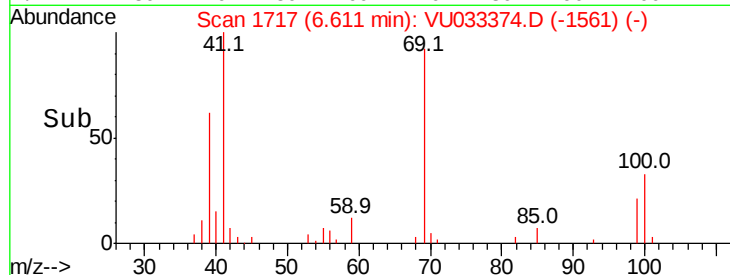
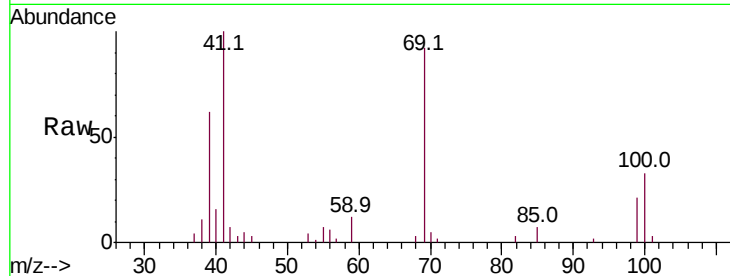
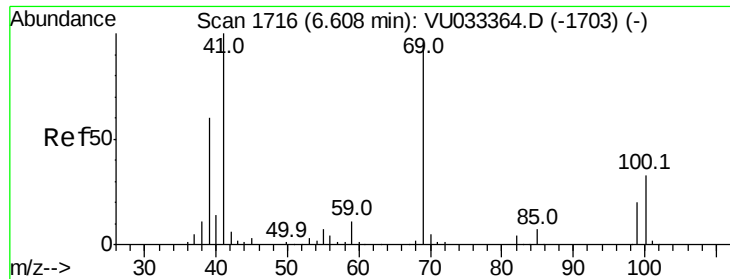
MMDadoda
7/25/2019 11:15:48 AM



#46
t-1,4-Dichloro-2-butene
Concen: 3.559 ug/l m
RT: 10.50 min Scan# 2927
Delta R.T. -0.00 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Tgt Ion	75	Resp	7786
Ion	Ratio	Lower	Upper
75	100		
53	85.4	62.9	94.3
89	56.0	43.0	64.4
88	45.4	35.0	52.4





#47

Methyl methacrylate

Concen: 3.648 ug/l

RT: 6.61 min Scan# 1717

Delta R.T. 0.00 min

Lab File: VU033374.D

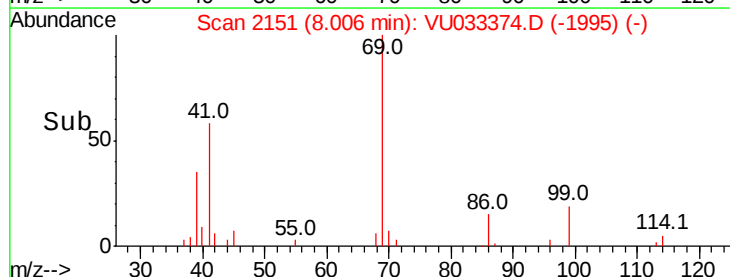
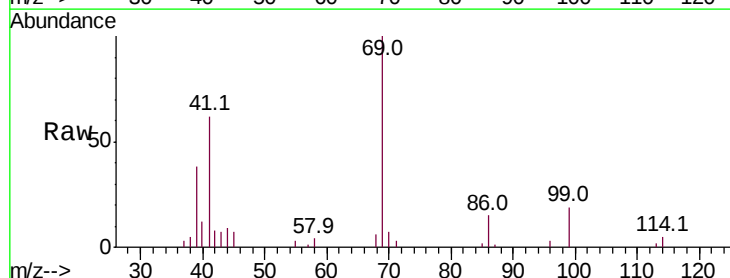
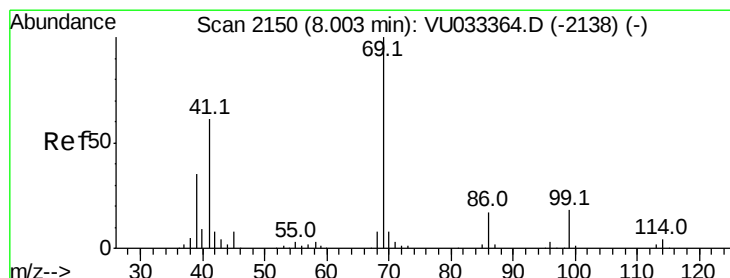
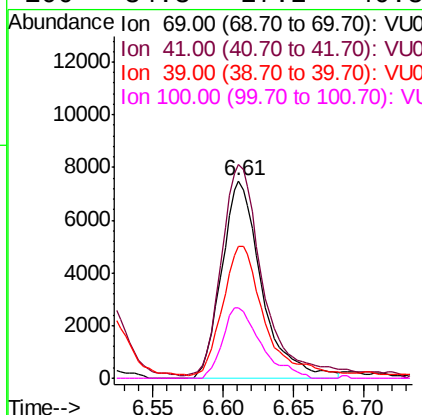
Acq: 23 Jul 2019 11:54

Tot Ion	Ion	Ratio	Resp	Lower	Upper
69	100				
41	117.3	0.0	208.2		
39	66.8	50.6	75.8		
100	34.3	27.2	40.8		

Instrument :
MSVOA_U
ClientSampleId :
VU0723WBSD01

Manual Integrations
APPROVED

MMDadoda
7/25/2019 11:15:48 AM



#48

Ethyl methacrylate

Concen: 1.763 ug/l

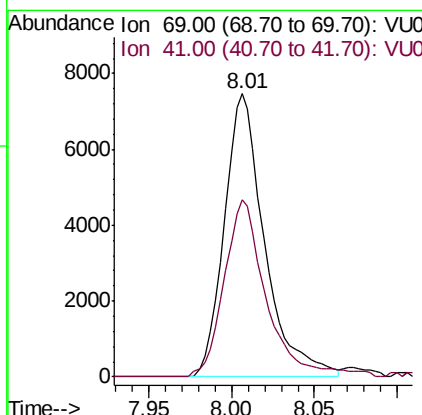
RT: 8.01 min Scan# 2151

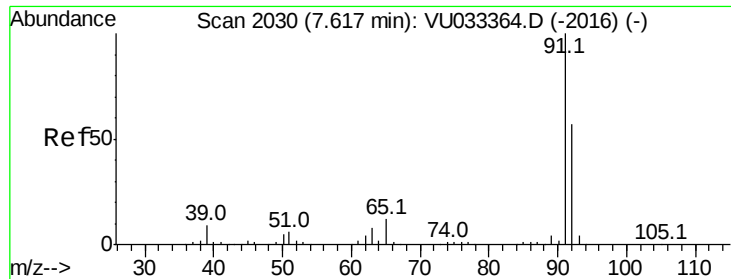
Delta R.T. 0.00 min

Lab File: VU033374.D

Acq: 23 Jul 2019 11:54

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100				
41	65.6	30.9	92.7		





#49

Toluene

Concen: 2.032 ug/l

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU033374.D

Acq: 23 Jul 2019 11:54

Instrument :

MSVOA_U

ClientSampleId :

VU0723WBSD01

Tot Ion: 92 Resp: 40491

Ion Ratio Lower Upper

92 100

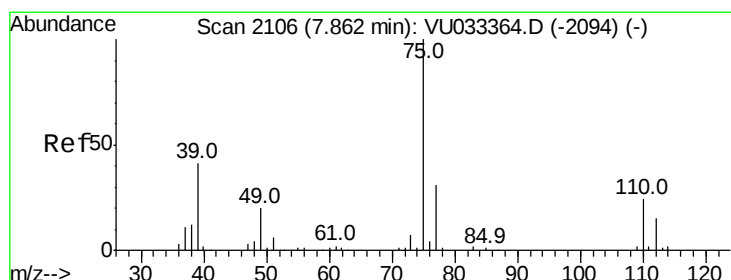
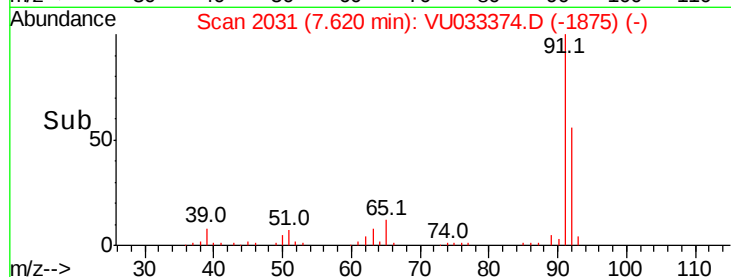
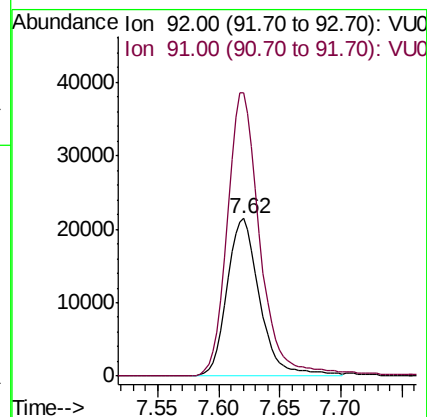
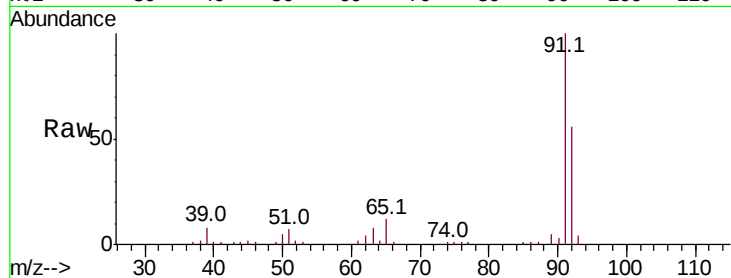
91 179.7 142.1 213.1

Manual Integrations

APPROVED

MMDadoda

7/25/2019 11:15:48 AM



#50

t-1,3-Dichloropropene

Concen: 1.955 ug/l

RT: 7.86 min Scan# 2107

Delta R.T. 0.00 min

Lab File: VU033374.D

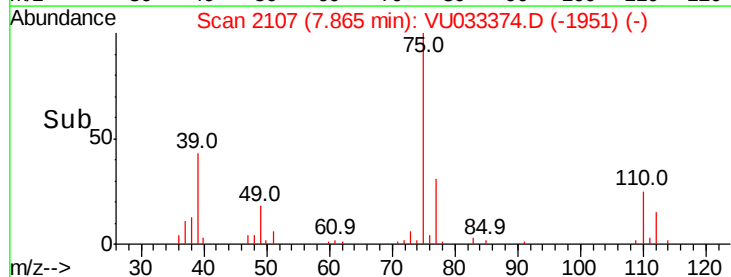
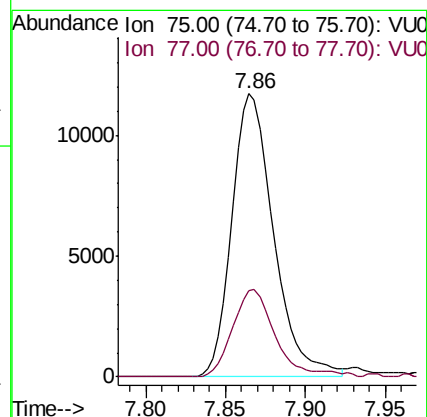
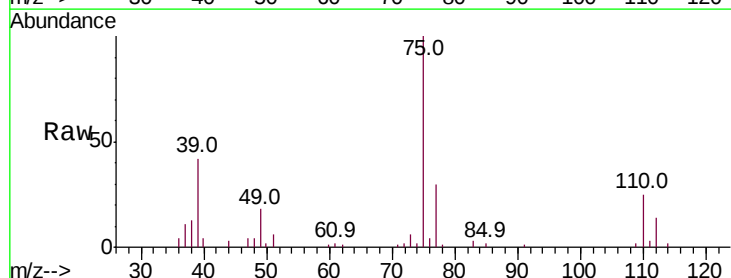
Acq: 23 Jul 2019 11:54

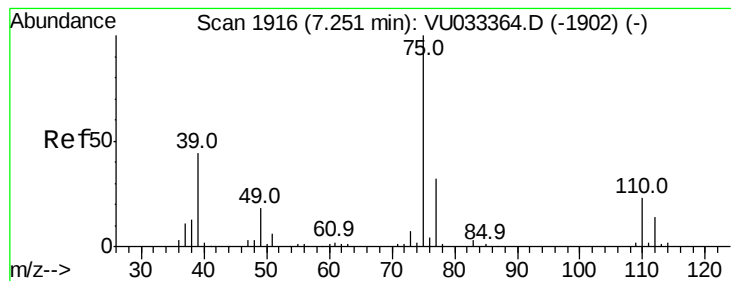
Tgt Ion: 75 Resp: 20894

Ion Ratio Lower Upper

75 100

77 30.4 25.2 37.8





#51

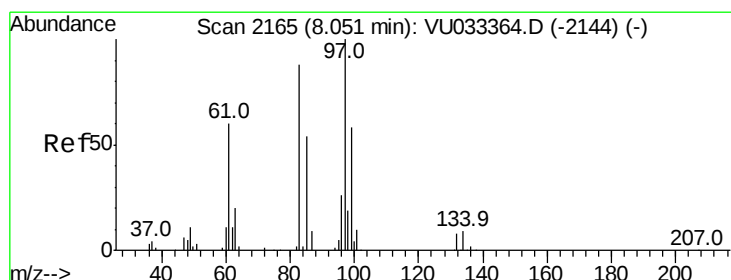
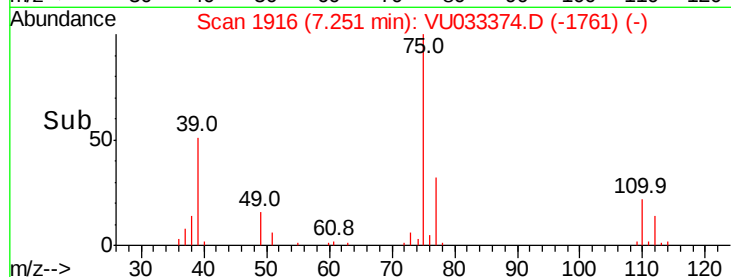
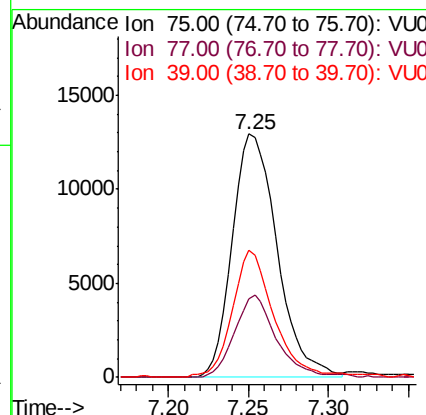
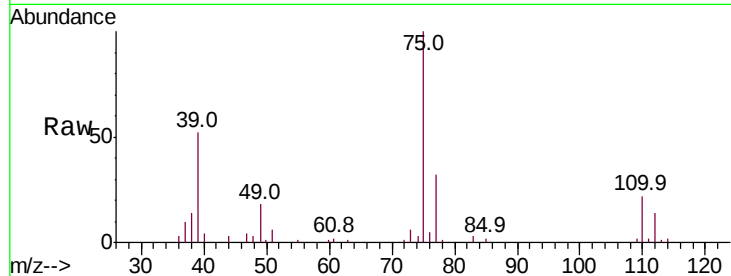
cis-1,3-Dichloropropene
Concen: 1.967 ug/l
RT: 7.25 min Scan# 1916
Delta R.T. -0.00 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Instrument :
MSVOA_U
ClientSampleId :
VU0723WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.4	25.8	38.8
39	51.0	35.2	52.8

Manual Integrations
APPROVED

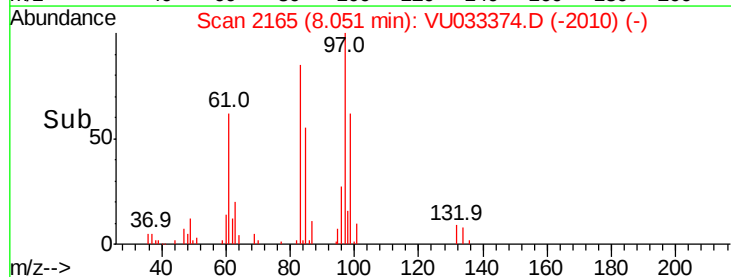
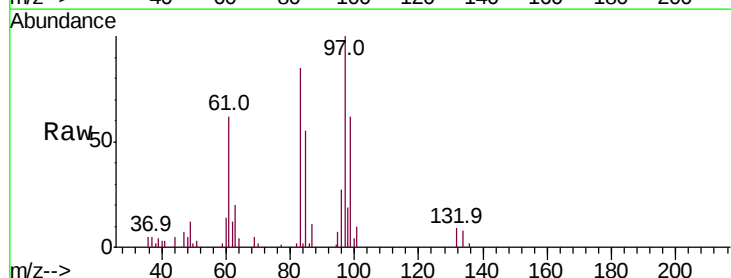
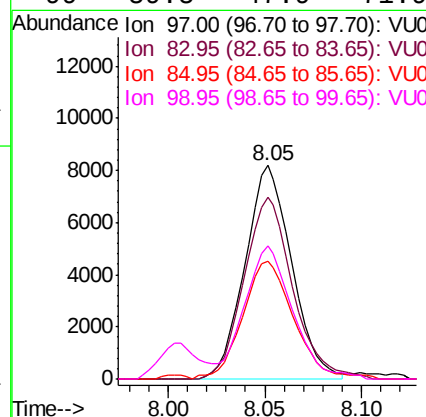
MMDadoda
7/25/2019 11:15:48 AM

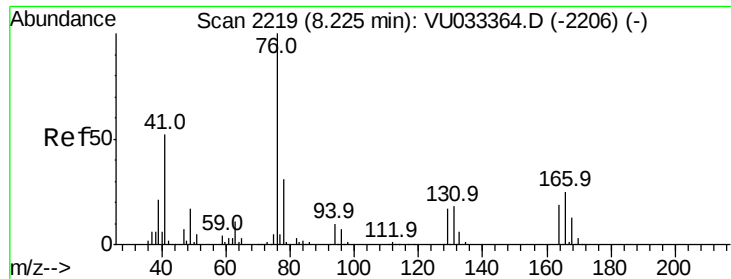


#52

1,1,2-Trichloroethane
Concen: 1.935 ug/l
RT: 8.05 min Scan# 2165
Delta R.T. -0.00 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Tgt Ion	Ratio	Lower	Upper
97	100		
83	85.1	70.2	105.2
85	55.2	43.5	65.3
99	59.5	47.9	71.9





#53

1,3-Dichloropropane

Concen: 1.921 ug/l

RT: 8.23 min Scan# 2220

Delta R.T. 0.00 min

Lab File: VU033374.D

Acq: 23 Jul 2019 11:54

Instrument :

MSVOA_U

ClientSampleId :

VU0723WBSD01

Tot Ion: 76 Resp: 23051

Ion Ratio Lower Upper

76 100

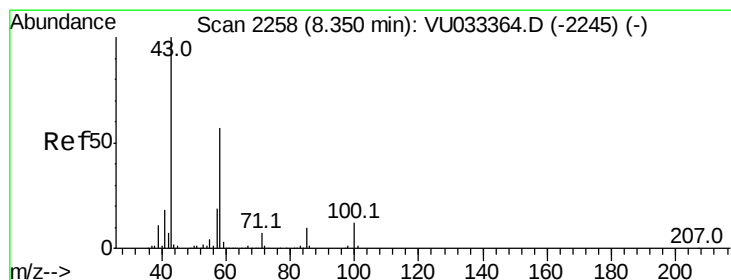
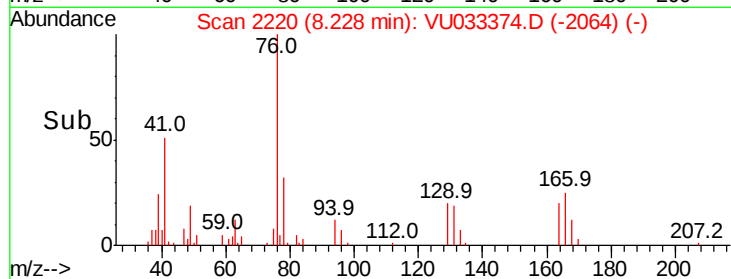
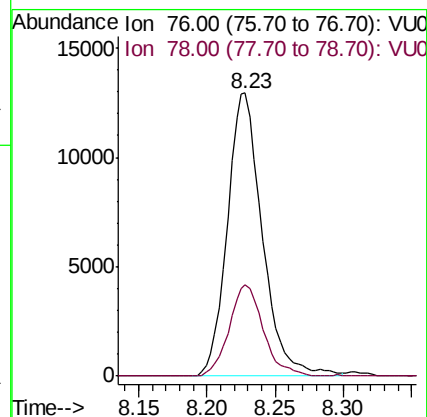
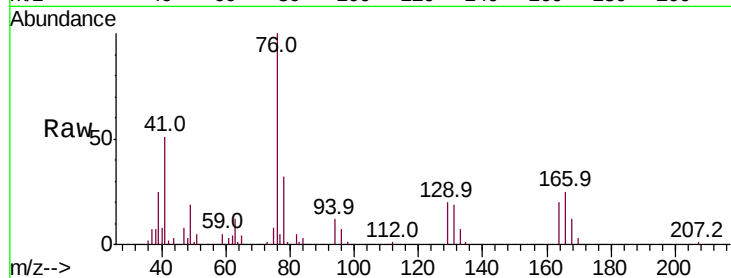
78 31.4 25.7 38.5

Manual Integrations

APPROVED

MMDadoda

7/25/2019 11:15:48 AM



#54

2-Hexanone

Concen: 8.562 ug/l

RT: 8.35 min Scan# 2259

Delta R.T. 0.00 min

Lab File: VU033374.D

Acq: 23 Jul 2019 11:54

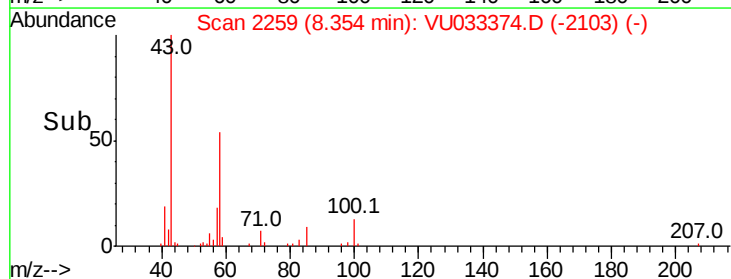
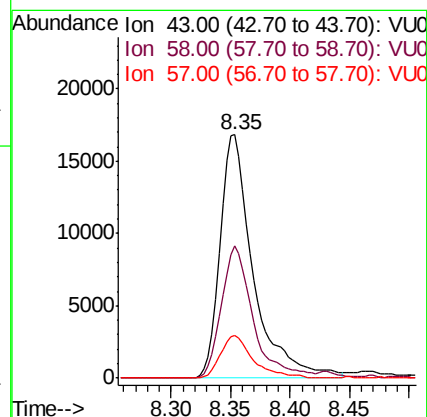
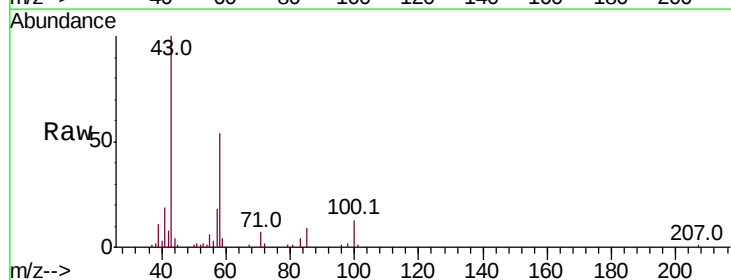
Tgt Ion: 43 Resp: 32670

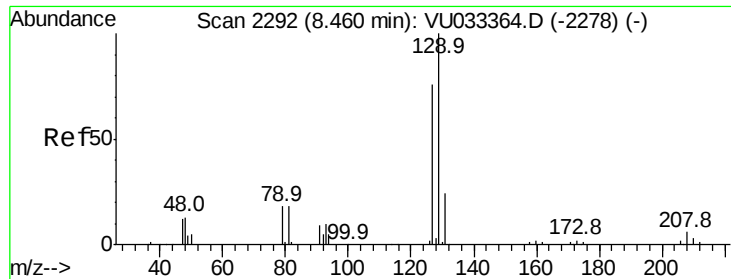
Ion Ratio Lower Upper

43 100

58 51.5 36.0 76.0

57 17.1 0.0 39.4





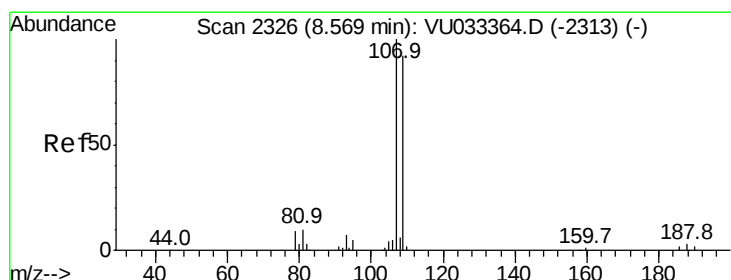
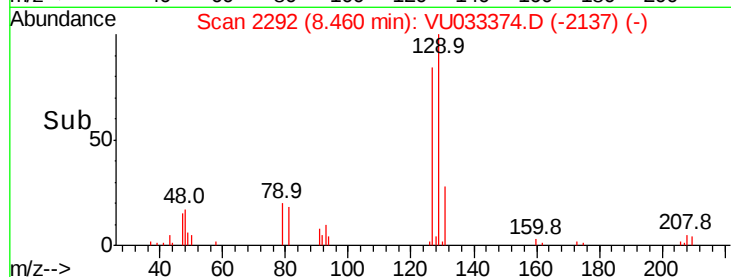
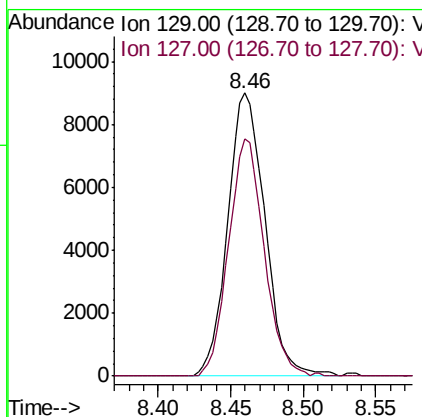
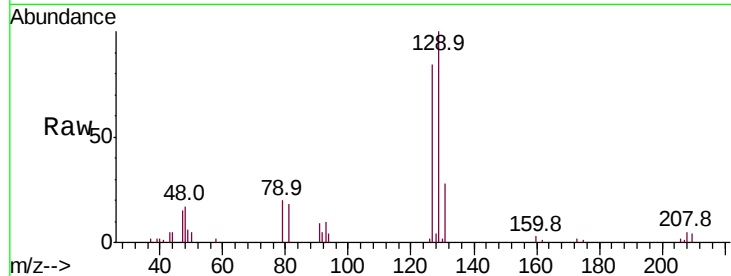
#55
Dibromochloromethane
Concen: 1.937 ug/l
RT: 8.46 min Scan# 2292
Delta R.T. -0.00 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Instrument :
MSVOA_U
ClientSampled :
VU0723WBSD01

Tot Ion:129 Resp: 16074
Ion Ratio Lower Upper
129 100
127 79.9 60.9 91.3

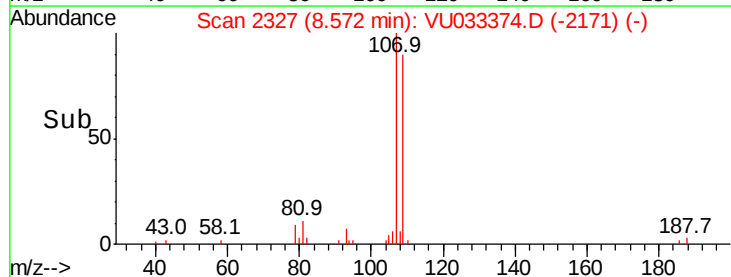
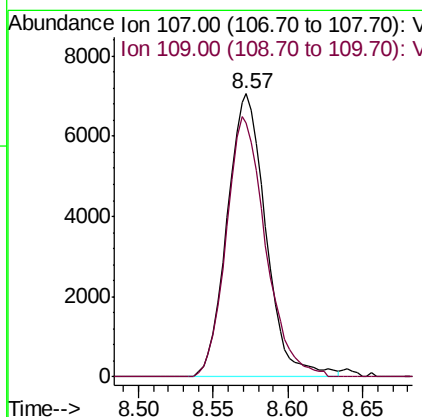
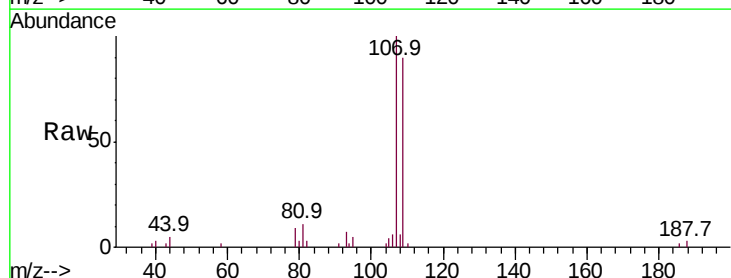
Manual Integrations
APPROVED

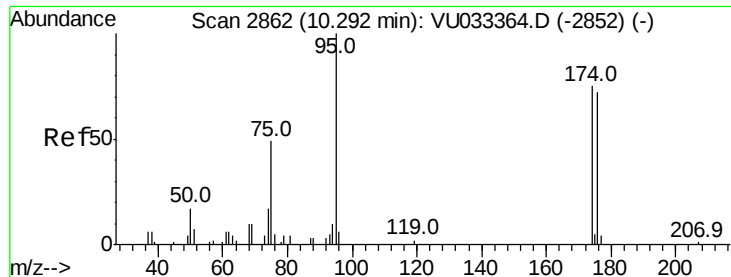
MMDadoda
7/25/2019 11:15:48 AM



#56
1,2-Dibromoethane
Concen: 1.923 ug/l
RT: 8.57 min Scan# 2327
Delta R.T. 0.00 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Tgt Ion:107 Resp: 12731
Ion Ratio Lower Upper
107 100
109 93.3 0.0 184.8





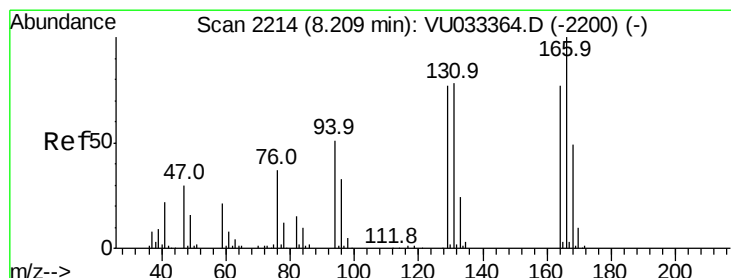
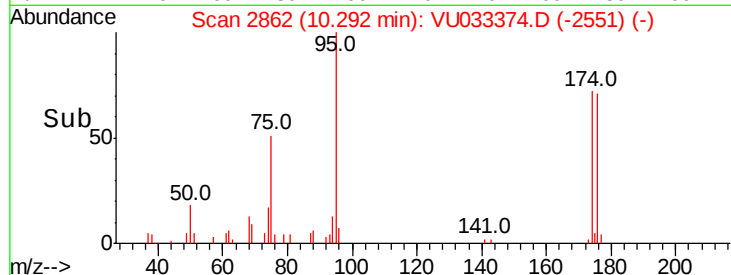
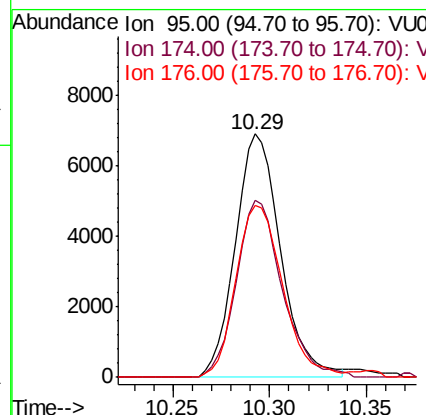
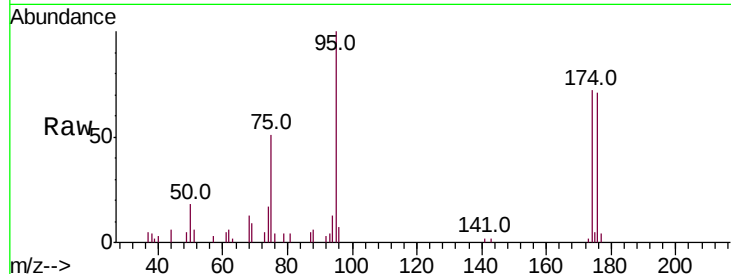
#57
4-Bromofluorobenzene
Concen: 0.985 ug/l
RT: 10.29 min Scan# 2862
Delta R.T. -0.00 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Instrument :
MSVOA_U
ClientSampleId :
VU0723WBSD01

Tot Ion	Ratio	Lower	Upper
95	100		
174	73.5	58.8	88.2
176	73.1	54.4	81.6

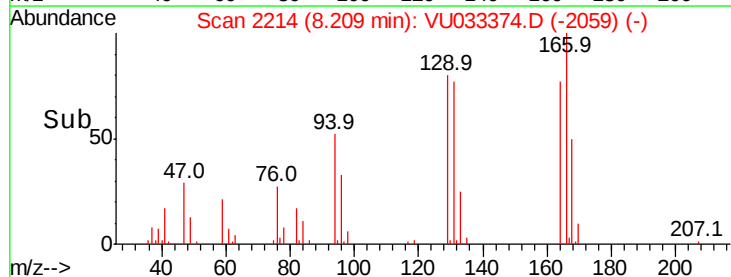
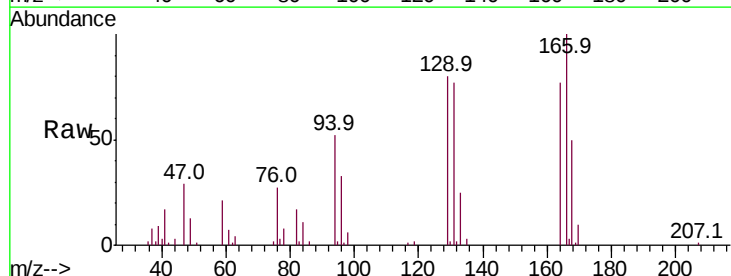
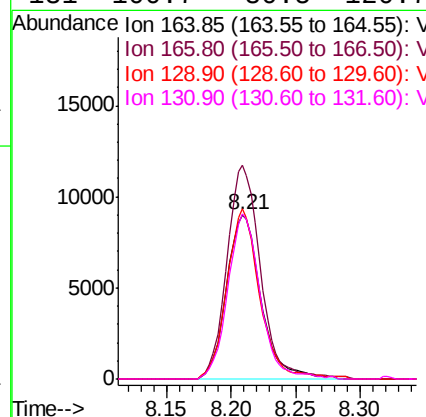
Manual Integrations
APPROVED

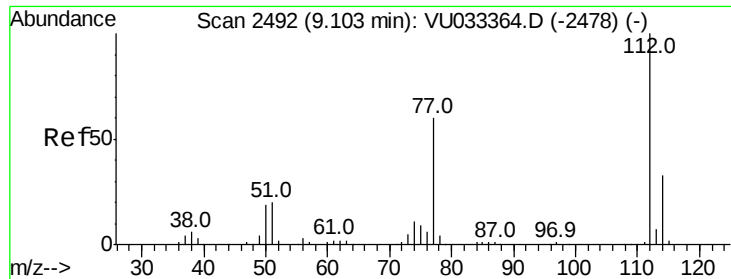
MMDadoda
7/25/2019 11:15:48 AM



#58
Tetrachloroethene
Concen: 2.004 ug/l
RT: 8.21 min Scan# 2214
Delta R.T. -0.00 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Tgt Ion	Ratio	Lower	Upper
164	100		
166	130.4	103.8	155.6
129	104.1	79.7	119.5
131	100.7	80.5	120.7





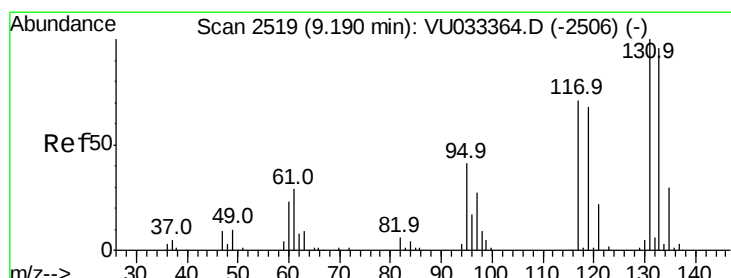
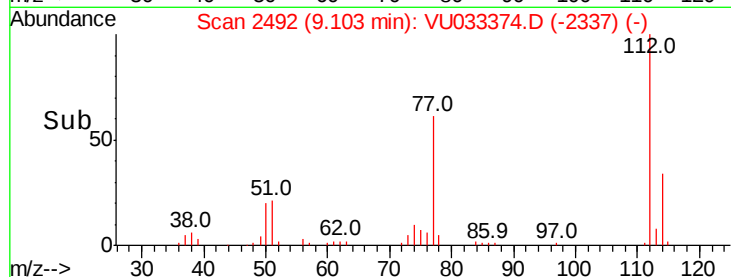
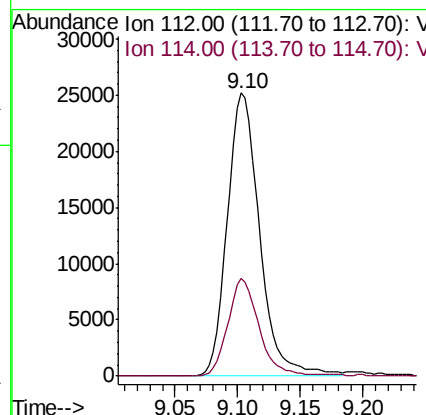
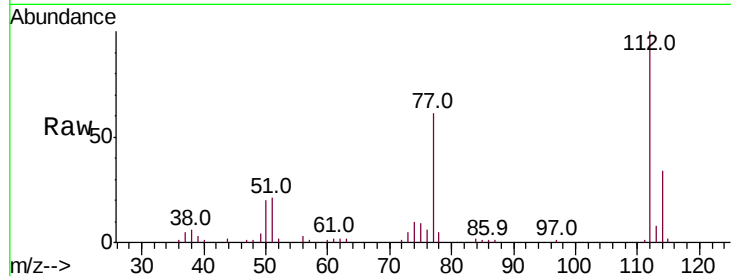
#59
Chlorobenzene
Concen: 1.987 ug/l
RT: 9.10 min Scan# 2492
Delta R.T. -0.00 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Instrument :
MSVOA_U
ClientSampleId :
VU0723WBSD01

Tot Ion:112 Resp: 45394
Ion Ratio Lower Upper
112 100
114 34.4 26.4 39.6

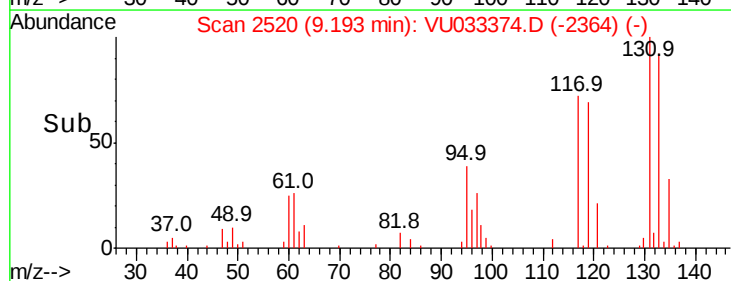
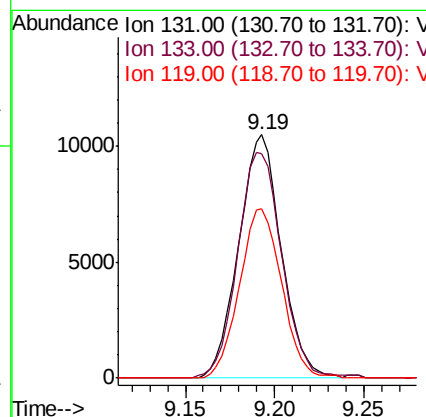
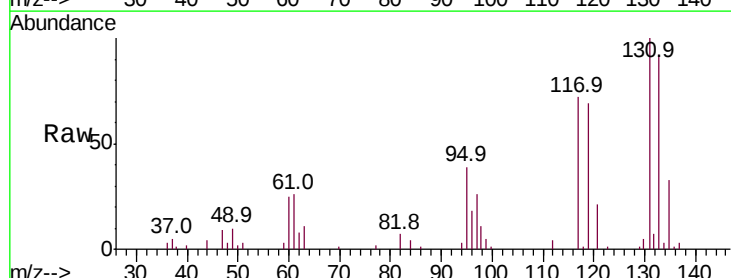
Manual Integrations
APPROVED

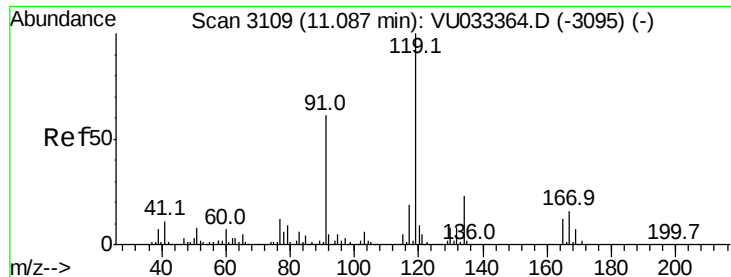
MMDadoda
7/25/2019 11:15:48 AM



#60
1,1,1,2-Tetrachloroethane
Concen: 2.013 ug/l
RT: 9.19 min Scan# 2520
Delta R.T. 0.00 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Tgt Ion:131 Resp: 17465
Ion Ratio Lower Upper
131 100
133 96.5 76.2 114.4
119 69.2 54.9 82.3





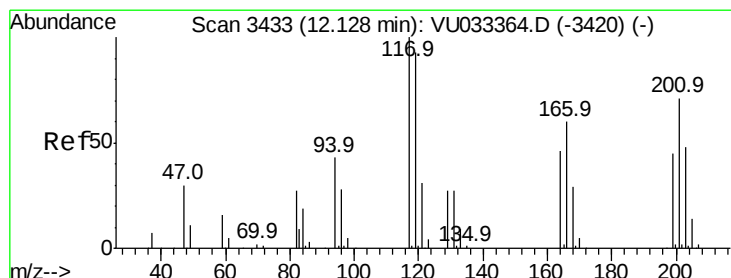
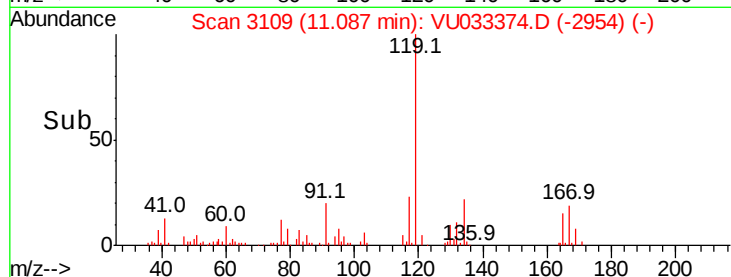
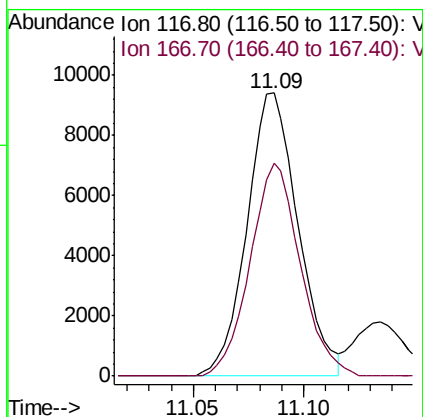
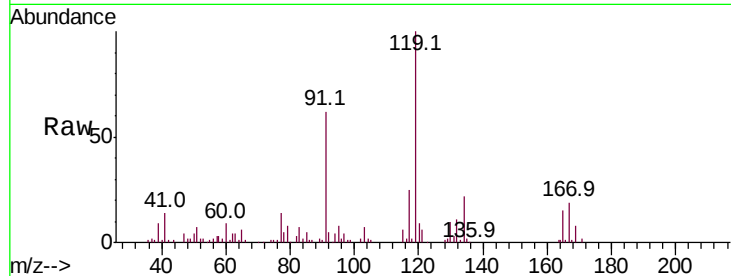
#61
Pentachloroethane
Concen: 2.125 ug/l
RT: 11.09 min Scan# 3109
Delta R.T. -0.00 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Instrument :
MSVOA_U
ClientSampleId :
VU0723WBSD01

Tot Ion:117 Resp: 15134
Ion Ratio Lower Upper
117 100
167 73.8 63.4 95.0

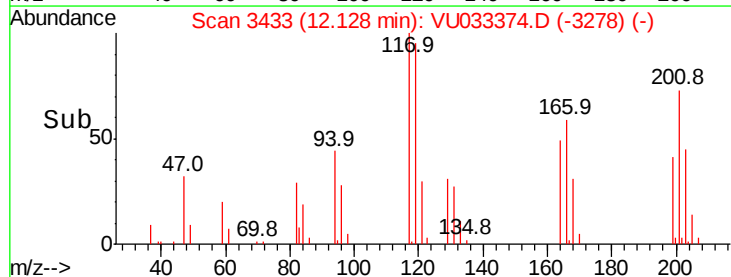
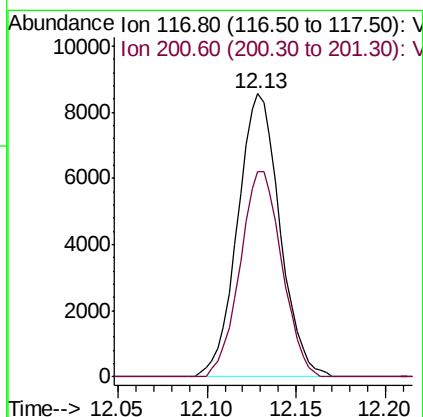
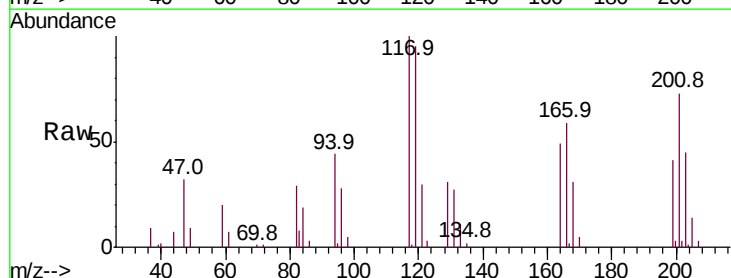
Manual Integrations
APPROVED

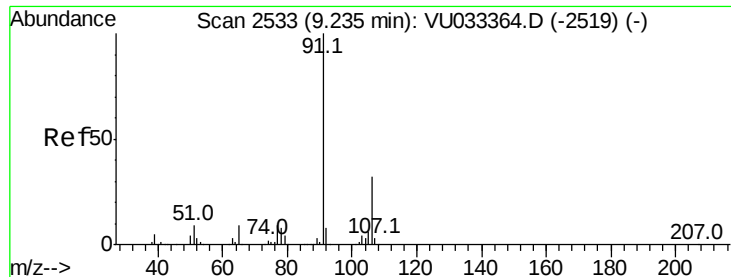
MMDadoda
7/25/2019 11:15:48 AM



#62
Hexachloroethane
Concen: 2.049 ug/l
RT: 12.13 min Scan# 3433
Delta R.T. -0.00 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Tgt Ion:117 Resp: 14116
Ion Ratio Lower Upper
117 100
201 71.7 57.9 86.9





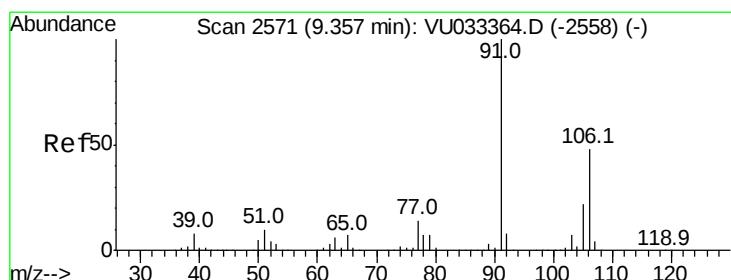
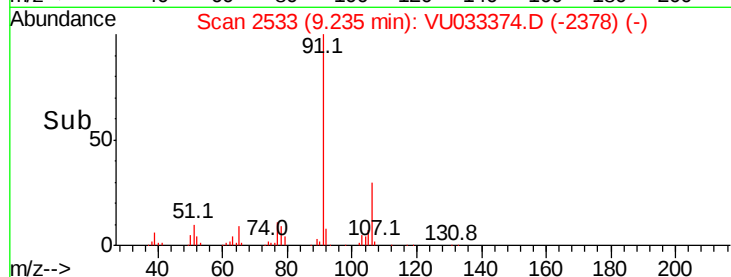
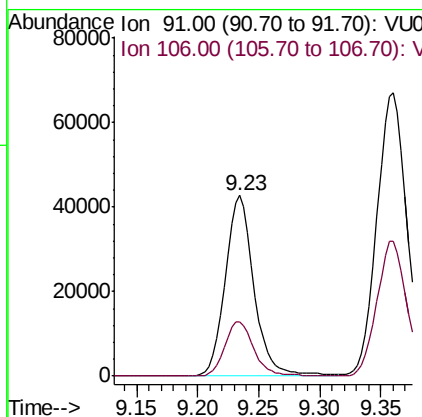
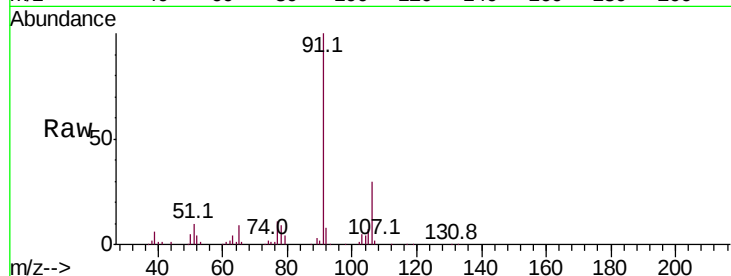
#63
Ethyl Benzene
Concen: 1.933 ug/l
RT: 9.23 min Scan# 2533
Delta R.T. -0.00 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Instrument :
MSVOA_U
ClientSampleId :
VU0723WBSD01

Tot Ion: 91 Resp: 70939
Ion Ratio Lower Upper
91 100
106 30.3 25.4 38.2

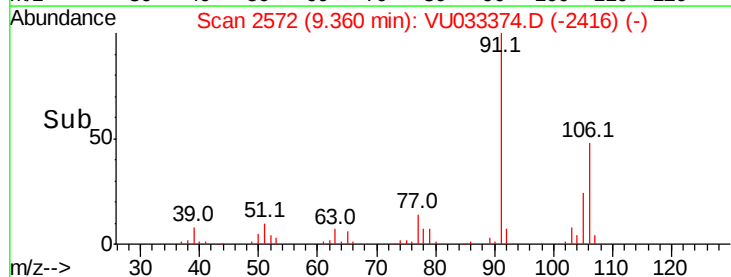
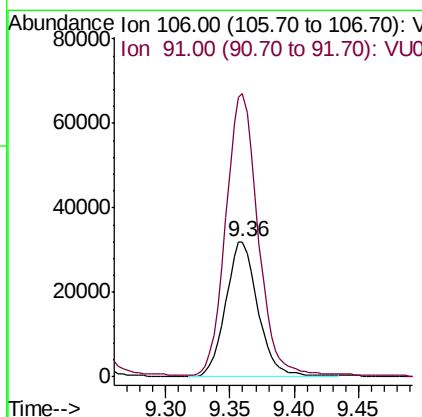
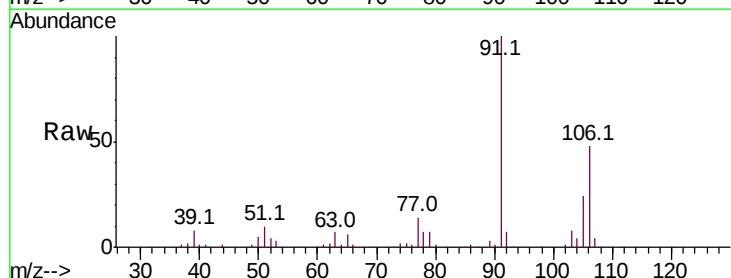
Manual Integrations
APPROVED

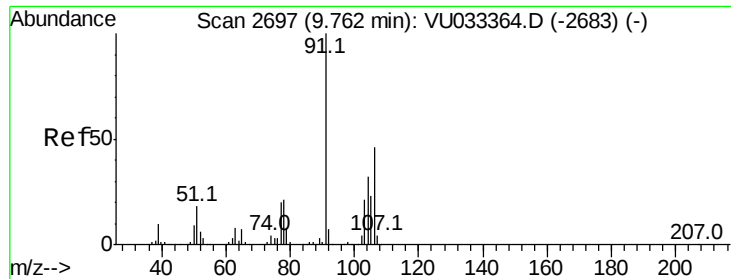
MMDadoda
7/25/2019 11:15:48 AM



#64
m/p-Xylenes
Concen: 3.816 ug/l
RT: 9.36 min Scan# 2572
Delta R.T. 0.00 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Tgt Ion: 106 Resp: 55989
Ion Ratio Lower Upper
106 100
91 205.4 167.1 250.7





#65

o-Xylene

Concen: 1.956 ug/l

RT: 9.76 min Scan# 2697

Delta R.T. -0.00 min

Lab File: VU033374.D

Acq: 23 Jul 2019 11:54

Instrument :

MSVOA_U

ClientSampleId :

VU0723WBSD01

Tot Ion:106 Resp: 27504

Ion Ratio Lower Upper

106 100

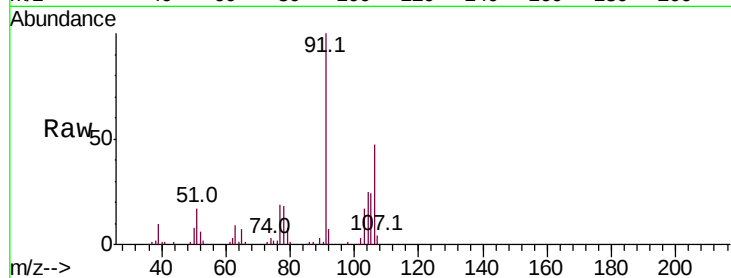
91 216.7 108.5 325.3

Manual Integrations

APPROVED

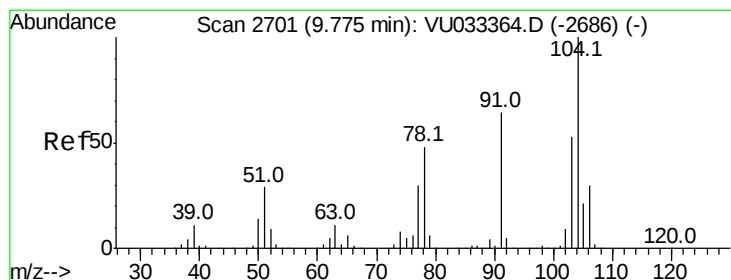
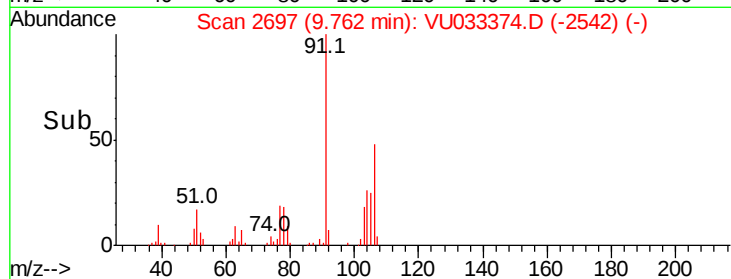
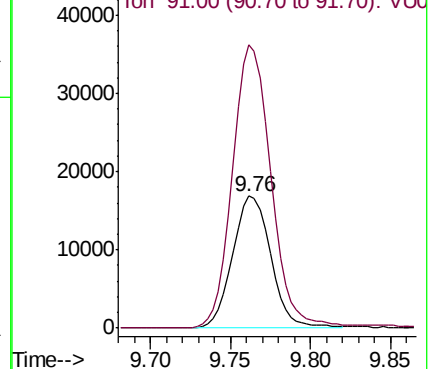
MMDadoda

7/25/2019 11:15:48 AM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#66

Styrene

Concen: 1.894 ug/l

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU033374.D

Acq: 23 Jul 2019 11:54

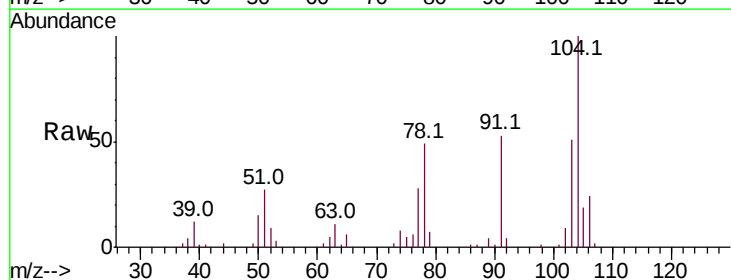
Tgt Ion:104 Resp: 45166

Ion Ratio Lower Upper

104 100

78 52.8 41.2 61.8

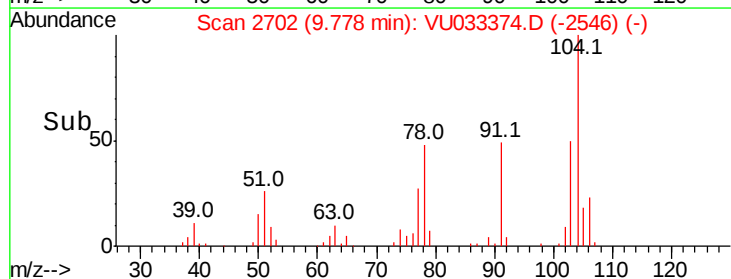
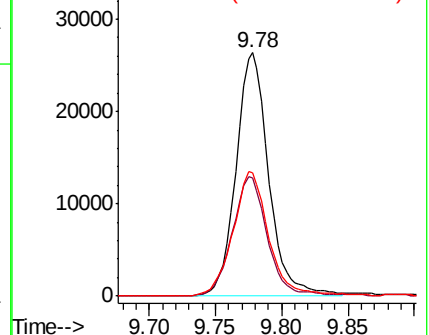
103 56.4 44.7 67.1

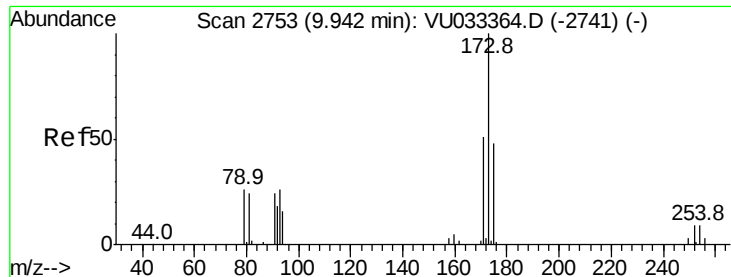


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0

Ion 103.00 (102.70 to 103.70): V





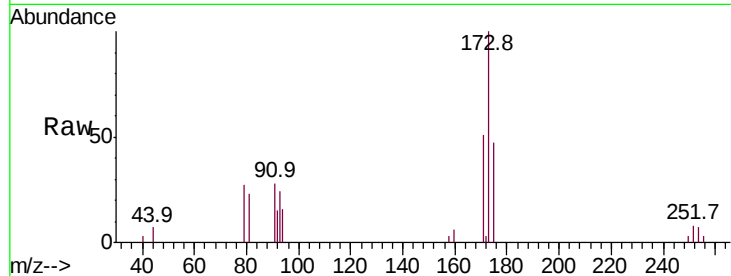
#67
Bromoform
Concen: 1.930 ug/l
RT: 9.94 min Scan# 2753
Delta R.T. -0.00 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Instrument :
MSVOA_U
ClientSampleID :
VU0723WBSD01

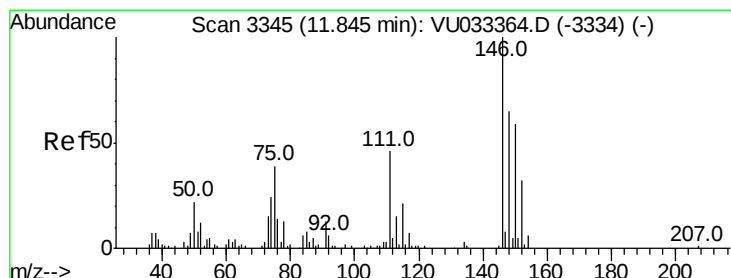
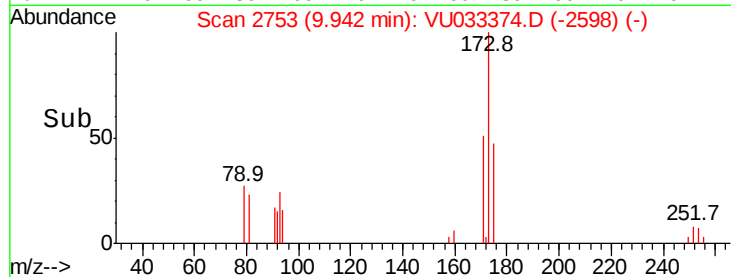
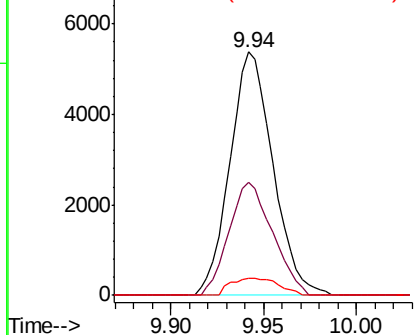
Tot Ion	Ratio	Lower	Upper
173	100		
175	46.9	38.6	58.0
254	7.8	6.8	10.2

Manual Integrations
APPROVED

MMDadoda
7/25/2019 11:15:48 AM



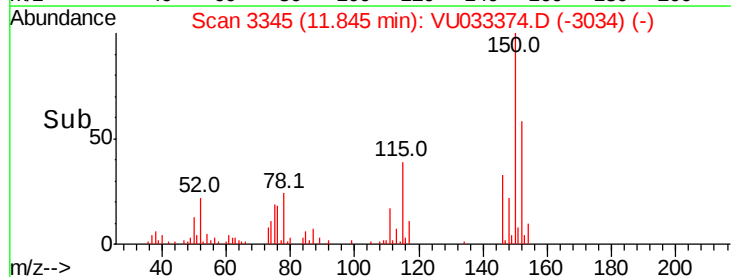
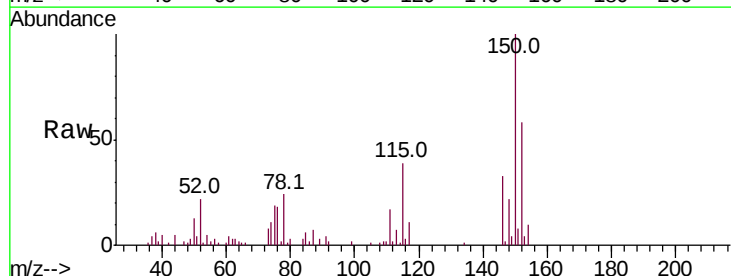
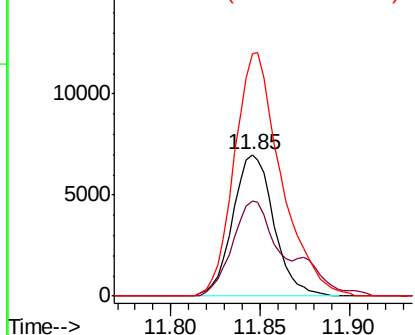
Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 253.75 (253.45 to 254.45): V

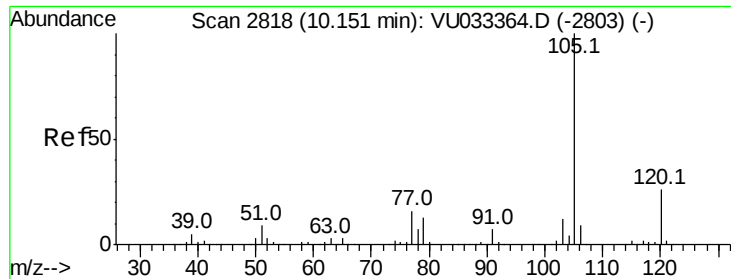


#68
1,2-Dichlorobenzene-d4
Concen: 0.954 ug/l
RT: 11.85 min Scan# 3345
Delta R.T. -0.00 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Tgt Ion	Ratio	Lower	Upper
152	100		
115	70.3	0.0	123.2
150	195.5	0.0	648.4

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





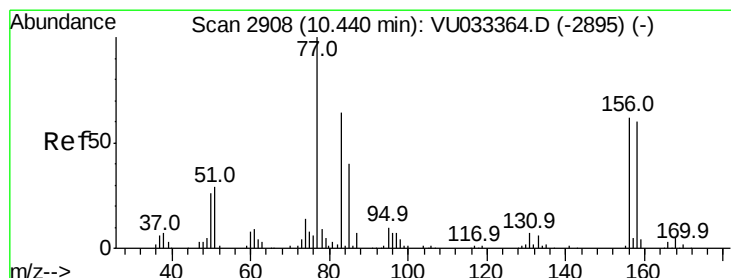
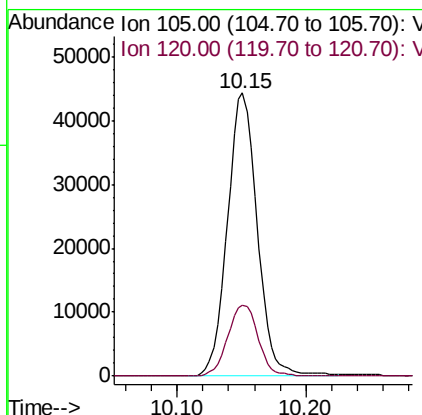
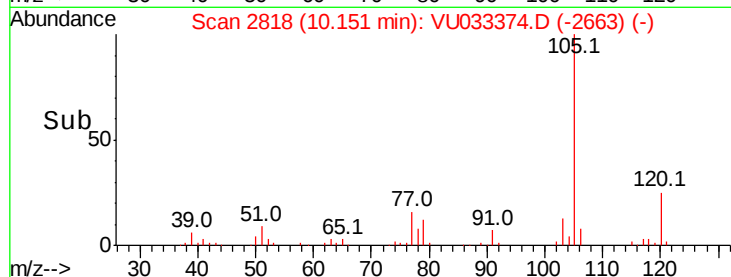
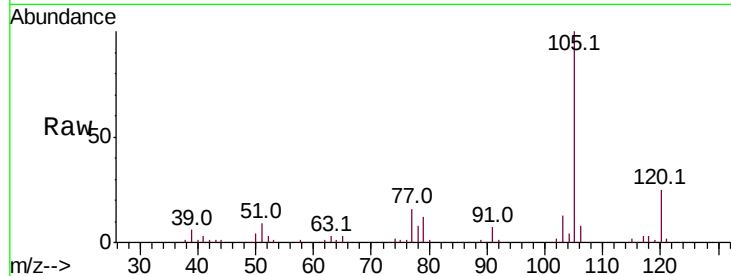
#69
Isopropylbenzene
Concen: 1.977 ug/l
RT: 10.15 min Scan# 2818
Delta R.T. -0.00 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Instrument :
MSVOA_U
ClientSampleID :
VU0723WBSD01

Tot Ion:105 Resp: 71276
Ion Ratio Lower Upper
105 100
120 25.6 13.4 40.1

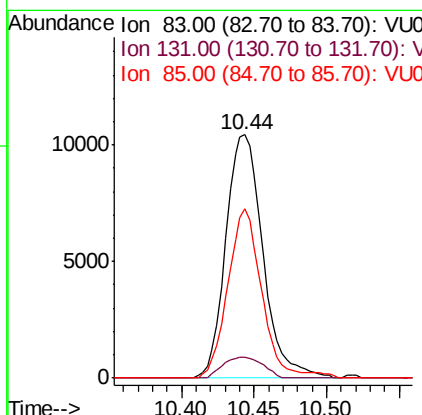
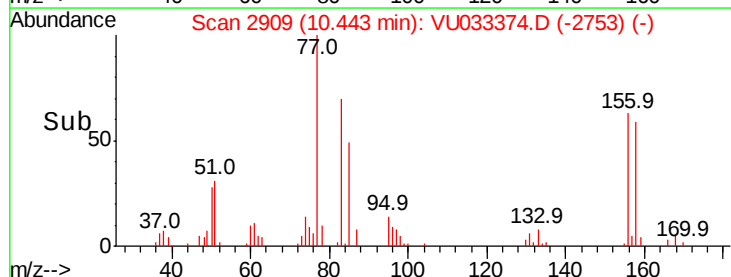
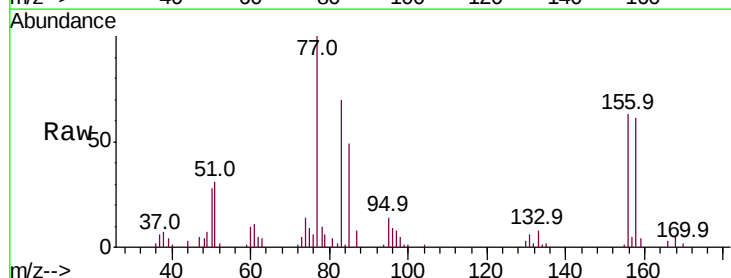
Manual Integrations
APPROVED

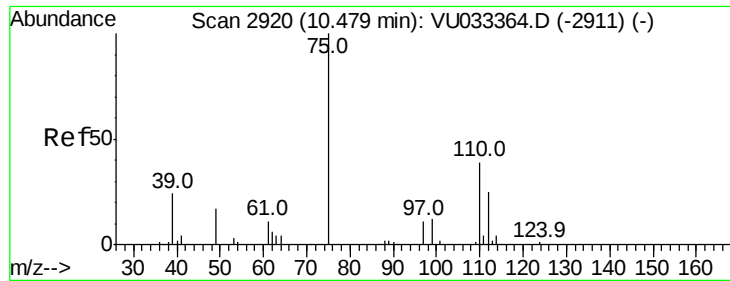
MMDadoda
7/25/2019 11:15:48 AM



#70
1,1,2,2-Tetrachloroethane
Concen: 1.966 ug/l
RT: 10.44 min Scan# 2909
Delta R.T. 0.00 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Tgt Ion: 83 Resp: 18509
Ion Ratio Lower Upper
83 100
131 9.2 8.0 12.0
85 62.6 51.8 77.8





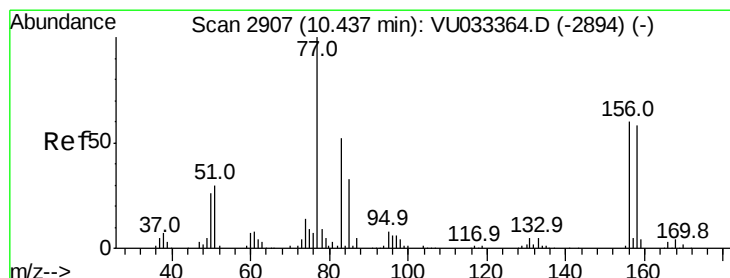
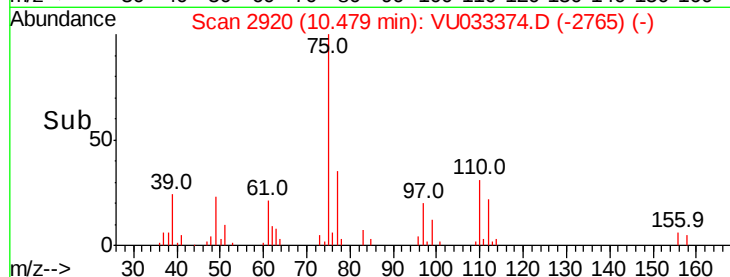
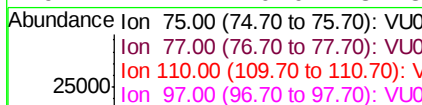
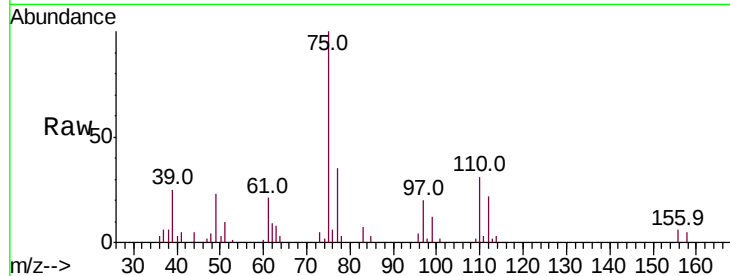
#71
1,2,3-Trichloropropane
Concen: 1.748 ug/l m
RT: 10.48 min Scan# 2920
Delta R.T. -0.00 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Instrument :
MSVOA_U
ClientSampleId :
VU0723WBSD01

Tot Ion	Ion	Ratio	Lower	Upper
75	75.00	100		
77	77.00	0.0	0.0	18.2
110	110.00	37.1	0.0	71.4
97	97.00	21.1	0.0	37.8

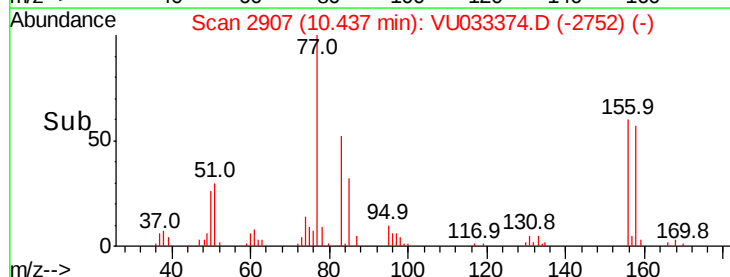
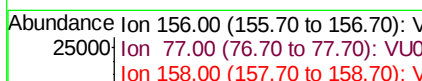
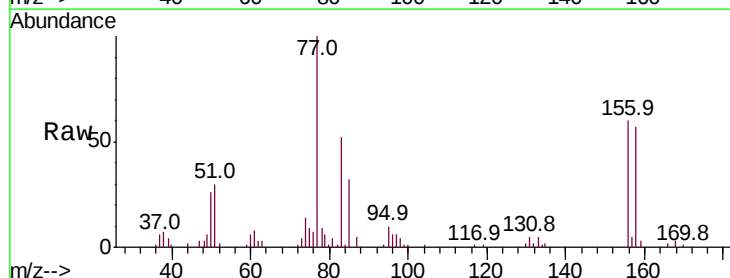
Manual Integrations
APPROVED

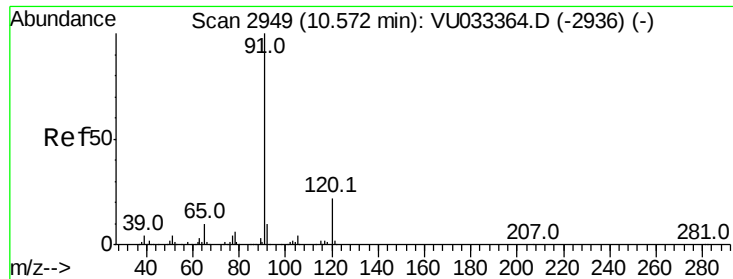
MMDadoda
7/25/2019 11:15:48 AM



#72
Bromobenzene
Concen: 1.997 ug/l
RT: 10.44 min Scan# 2907
Delta R.T. -0.00 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Tgt Ion	Ion	Ratio	Lower	Upper
156	156.00	100		
77	77.00	162.8	0.0	324.4
158	158.00	95.0	0.0	192.4





#73

n-propylbenzene

Concen: 1.916 ug/l

RT: 10.57 min Scan# 2949

Delta R.T. -0.00 min

Lab File: VU033374.D

Acq: 23 Jul 2019 11:54

Instrument :

MSVOA_U

ClientSampleId :

VU0723WBSD01

Tot Ion:120 Resp: 19683

Ion Ratio Lower Upper

120 100

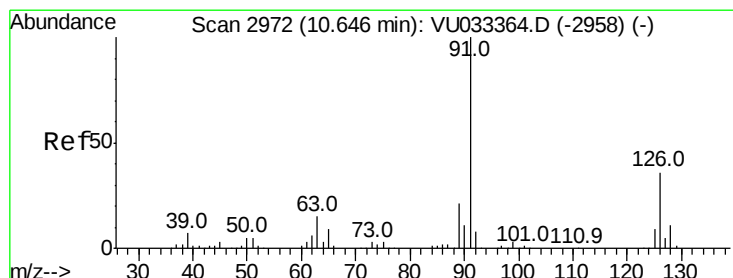
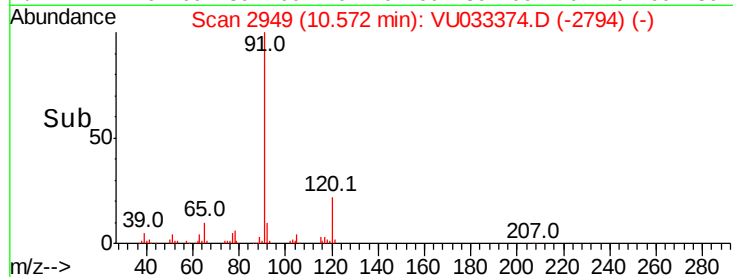
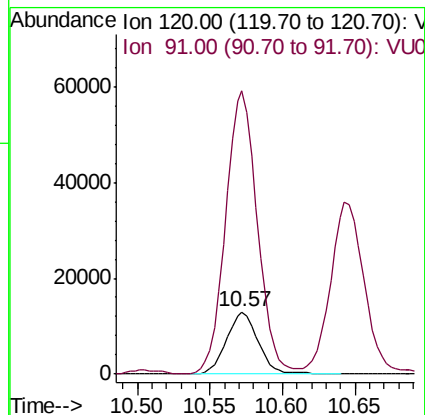
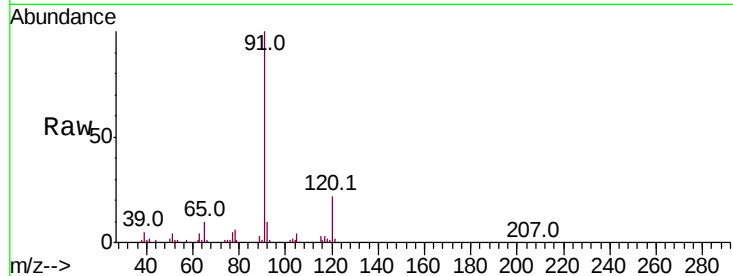
91 452.5 355.1 532.7

Manual Integrations

APPROVED

MMDadoda

7/25/2019 11:15:48 AM



#74

2-Chlorotoluene

Concen: 2.073 ug/l

RT: 10.65 min Scan# 2972

Delta R.T. -0.00 min

Lab File: VU033374.D

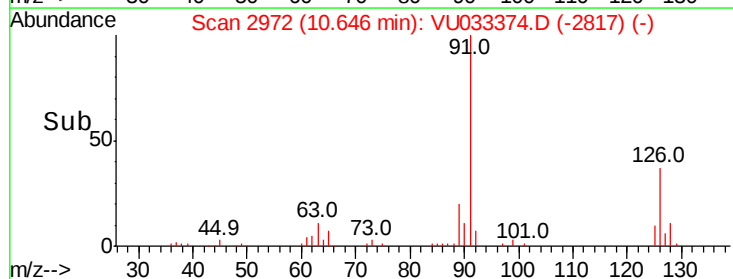
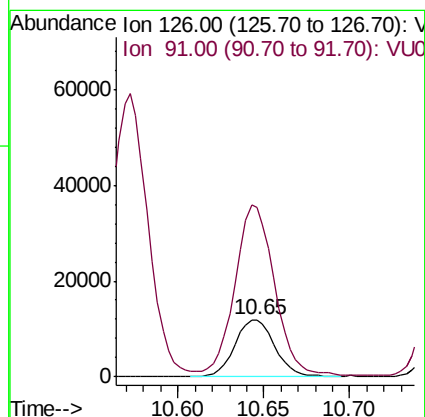
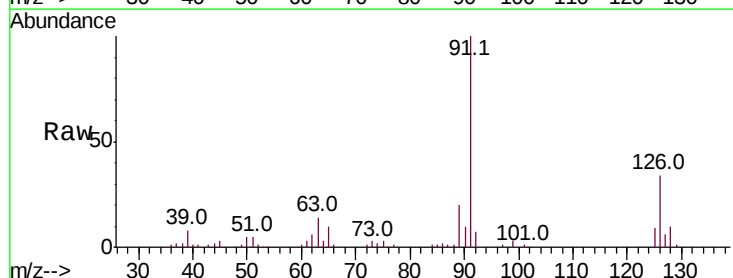
Acq: 23 Jul 2019 11:54

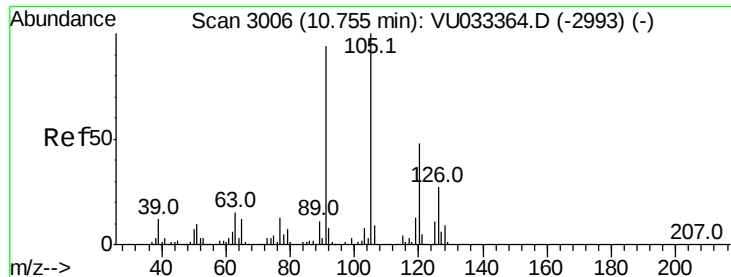
Tgt Ion:126 Resp: 19447

Ion Ratio Lower Upper

126 100

91 292.1 0.0 598.0





#75

1,3,5-Trimethylbenzene

Concen: 1.965 ug/l

RT: 10.76 min Scan# 3006

Delta R.T. -0.00 min

Lab File: VU033374.D

Acq: 23 Jul 2019 11:54

Instrument :

MSVOA_U

ClientSampleId :

VU0723WBSD01

Tot Ion:105 Resp: 63582

Ion Ratio Lower Upper

105 100

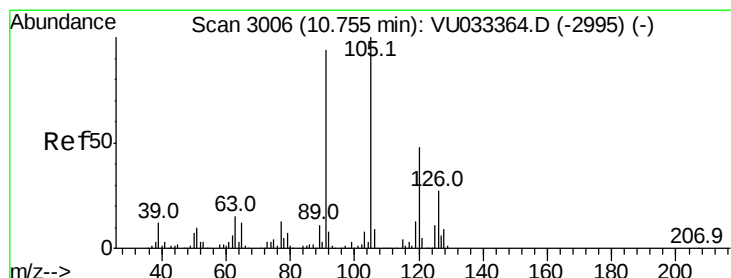
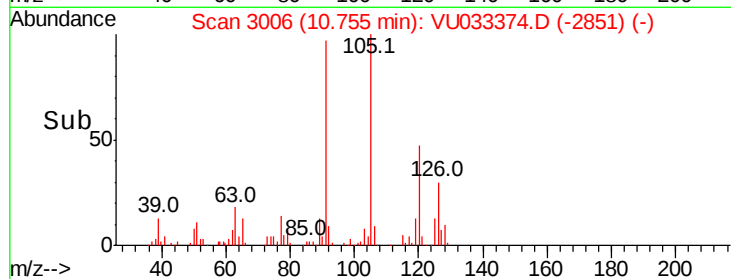
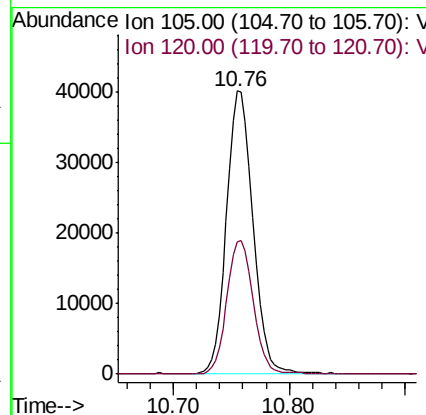
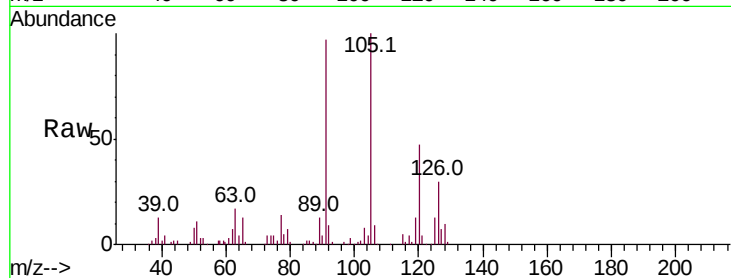
120 47.3 38.2 57.4

Manual Integrations

APPROVED

MMDadoda

7/25/2019 11:15:48 AM



#76

4-Chlorotoluene

Concen: 2.020 ug/l

RT: 10.76 min Scan# 3007

Delta R.T. 0.00 min

Lab File: VU033374.D

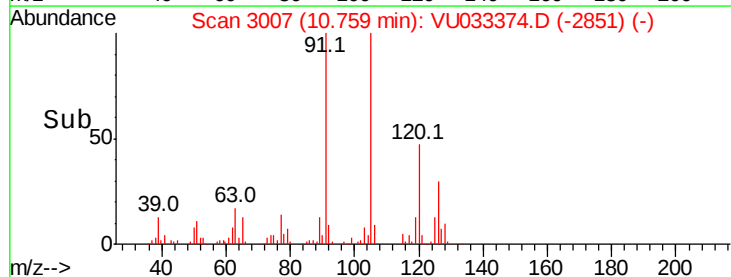
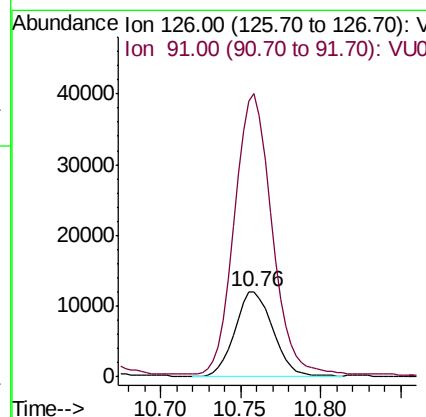
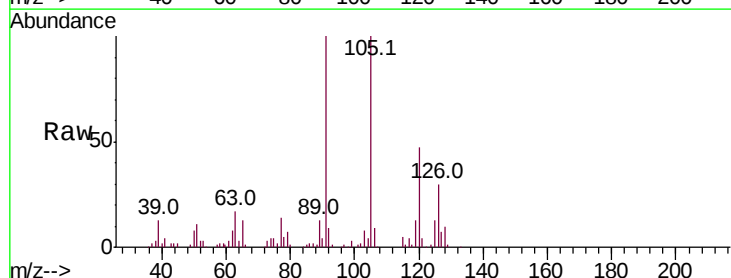
Acq: 23 Jul 2019 11:54

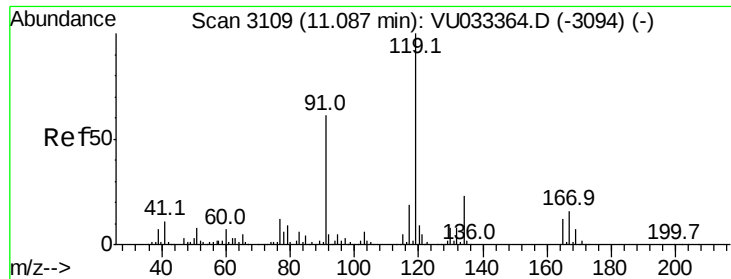
Tgt Ion:126 Resp: 19740

Ion Ratio Lower Upper

126 100

91 319.0 0.0 681.0





#77

tert-Butylbenzene

Concen: 1.920 ug/l

RT: 11.09 min Scan# 3109

Delta R.T. -0.00 min

Lab File: VU033374.D

Acq: 23 Jul 2019 11:54

Instrument :

MSVOA_U

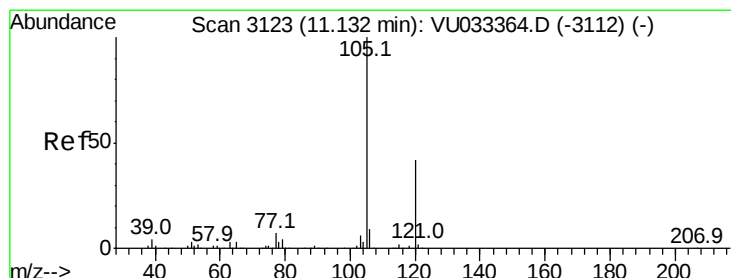
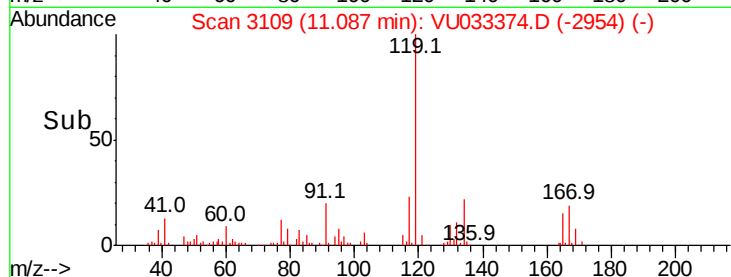
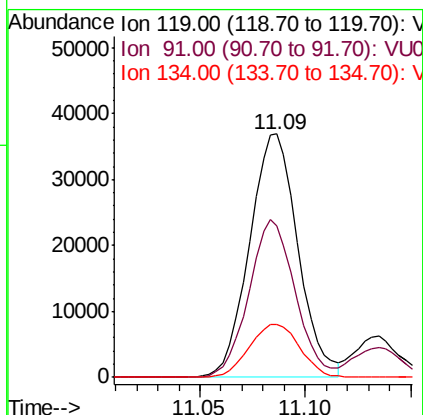
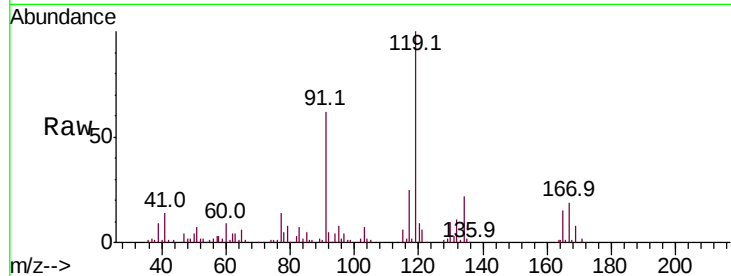
ClientSampleId :

VU0723WBSD01

Tot Ion:	119	Resp:	58894
Ion Ratio	Lower	Upper	
119	100		
91	61.8	30.4	91.3
134	23.1	18.5	27.7

Manual Integrations
APPROVED

MMDadoda
7/25/2019 11:15:48 AM



#78

1,2,4-Trimethylbenzene

Concen: 1.883 ug/l

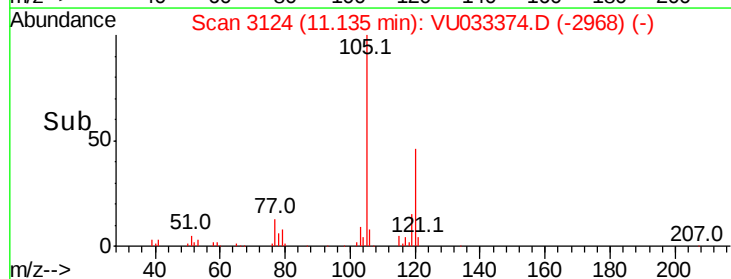
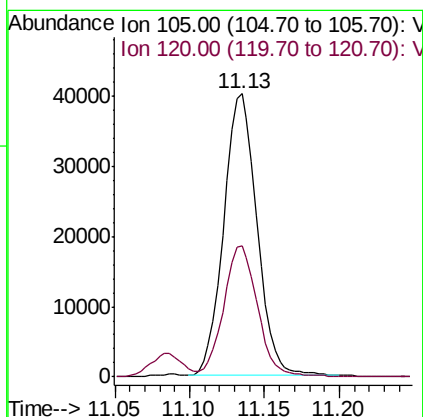
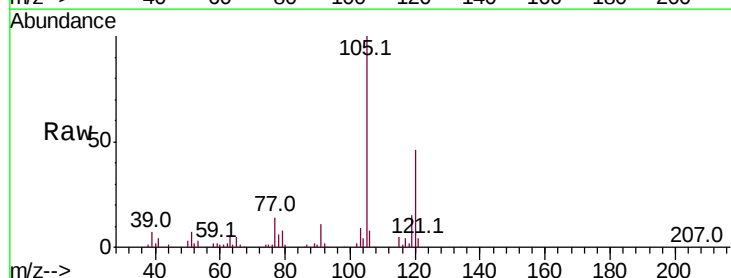
RT: 11.13 min Scan# 3124

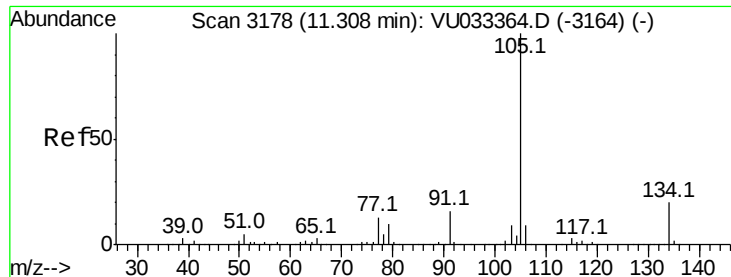
Delta R.T. 0.00 min

Lab File: VU033374.D

Acq: 23 Jul 2019 11:54

Tgt Ion:	105	Resp:	62288
Ion Ratio	Lower	Upper	
105	100		
120	47.3	22.5	67.5





#79

sec-Butylbenzene

Concen: 1.972 ug/l

RT: 11.31 min Scan# 3178

Delta R.T. -0.00 min

Lab File: VU033374.D

Acq: 23 Jul 2019 11:54

Instrument :

MSVOA_U

ClientSampleId :

VU0723WBSD01

Tot Ion:105 Resp: 83269

Ion Ratio Lower Upper

105 100

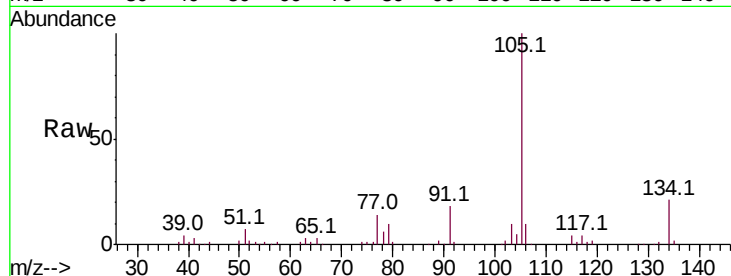
134 19.7 15.5 23.3

Manual Integrations

APPROVED

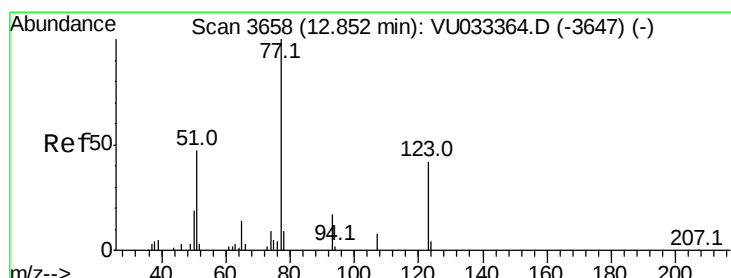
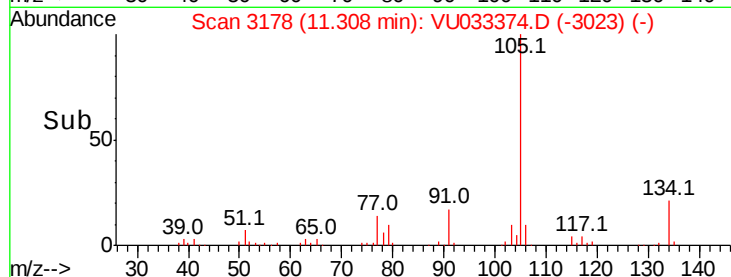
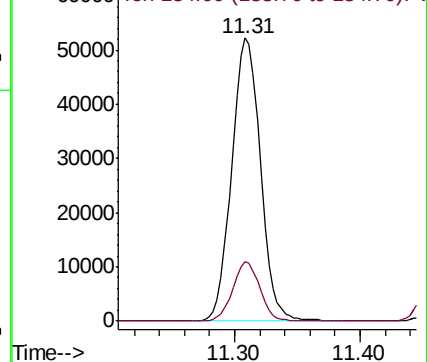
MMDadoda

7/25/2019 11:15:48 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#80

Nitrobenzene

Concen: 3.790 ug/l m

RT: 12.86 min Scan# 3662

Delta R.T. 0.01 min

Lab File: VU033374.D

Acq: 23 Jul 2019 11:54

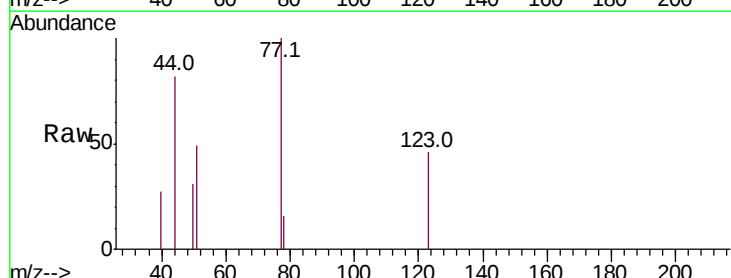
Tgt Ion: 77 Resp: 1483

Ion Ratio Lower Upper

77 100

123 20.7 19.3 68.3

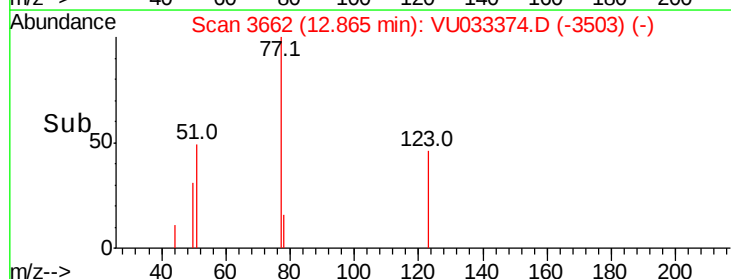
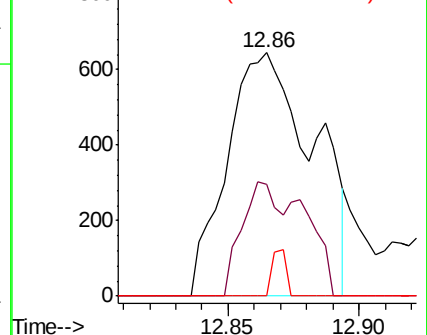
65 3.1 10.1 12.9#

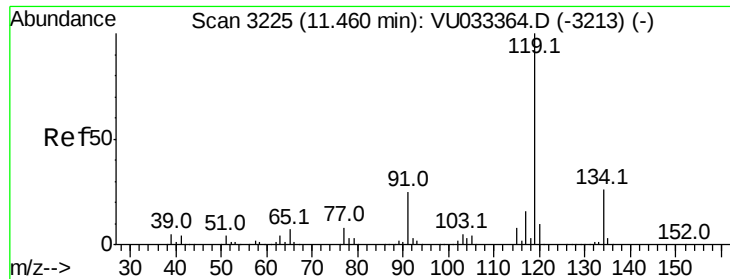


Abundance Ion 77.00 (76.70 to 77.70): VU0

Ion 123.00 (122.70 to 123.70): V

Ion 65.00 (64.70 to 65.70): VU0





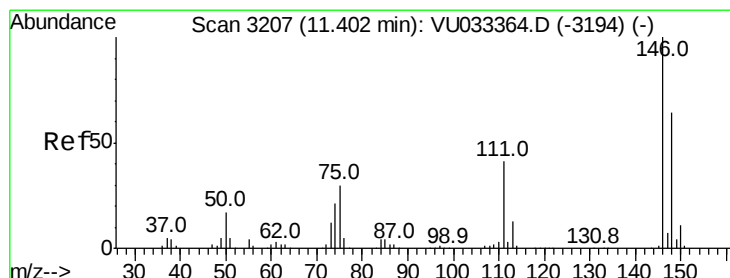
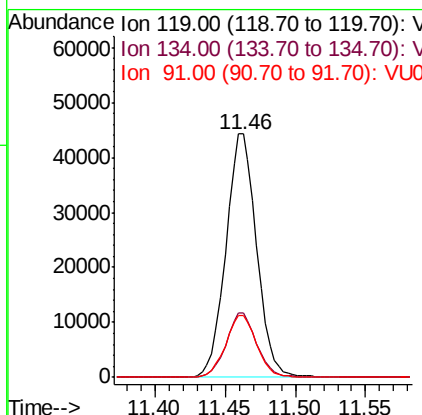
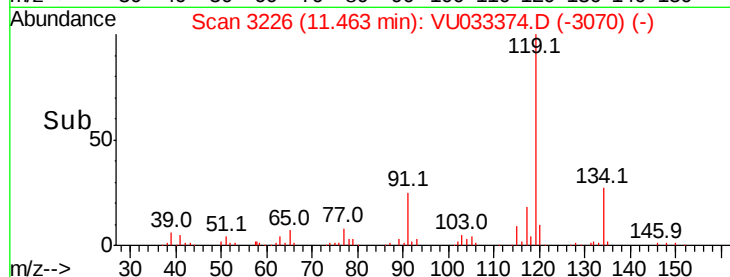
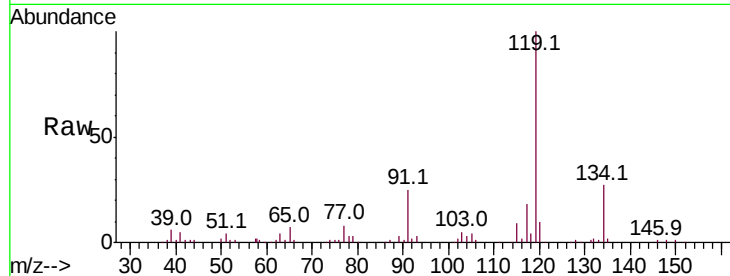
#81
p-Isopropyltoluene
Concen: 1.960 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. 0.00 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Instrument :
MSVOA_U
ClientSampleId :
VU0723WBSD01

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.1	21.0	31.4
91	25.9	19.8	29.6

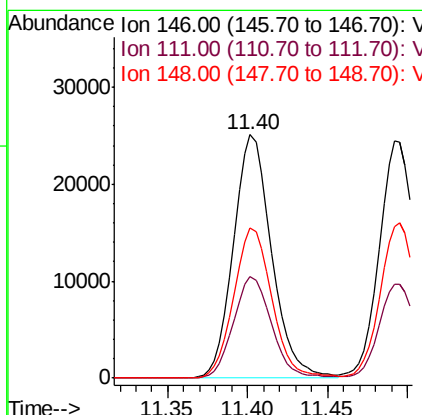
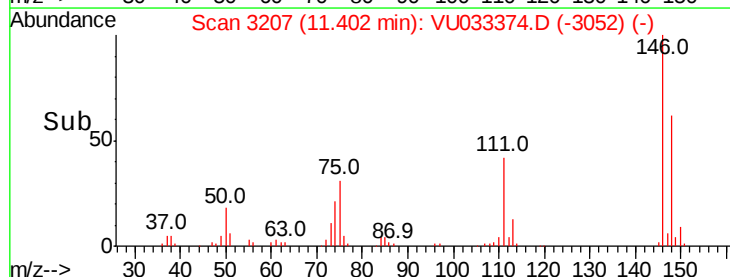
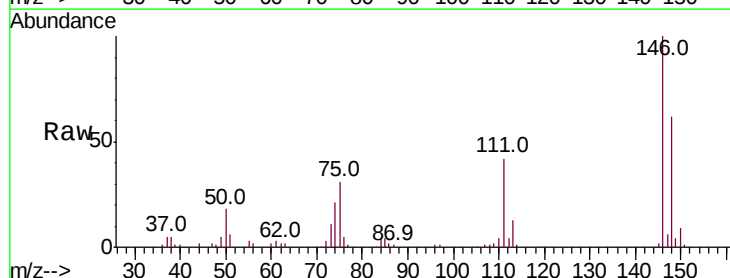
Manual Integrations
APPROVED

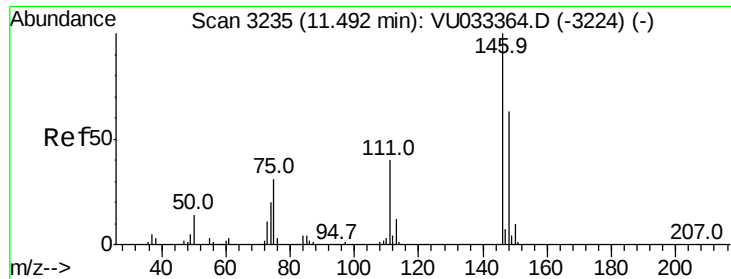
MMDadoda
7/25/2019 11:15:48 AM



#82
1,3-Dichlorobenzene
Concen: 2.014 ug/l
RT: 11.40 min Scan# 3207
Delta R.T. -0.00 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.6	33.3	49.9
148	61.7	50.8	76.2





#83

1,4-Dichlorobenzene

Concen: 2.008 ug/l

RT: 11.49 min Scan# 3235

Delta R.T. -0.00 min

Lab File: VU033374.D

Acq: 23 Jul 2019 11:54

Instrument :

MSVOA_U

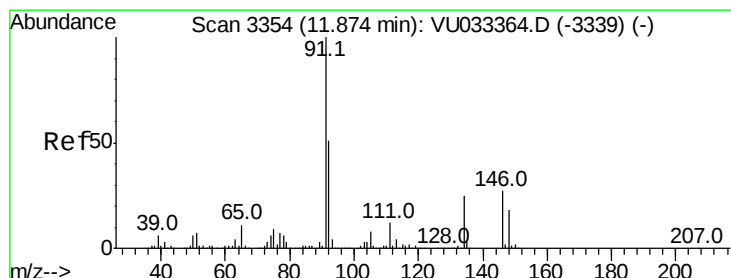
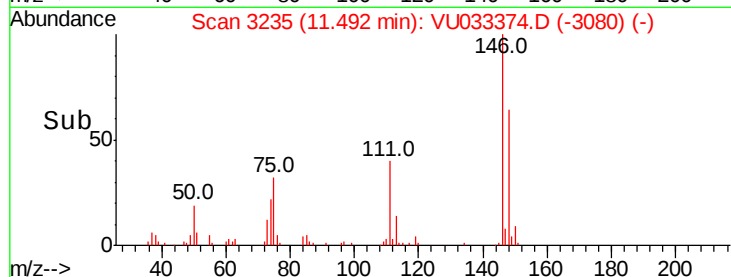
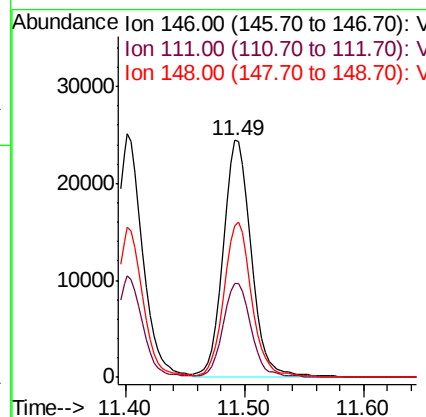
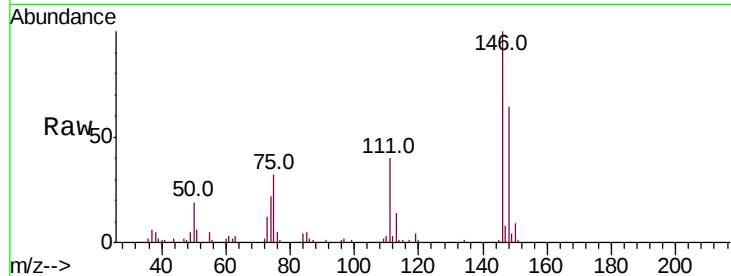
ClientSampleId :

VU0723WBSD01

Tot Ion:	146	Resp:	40210
Ion	Ratio	Lower	Upper
146	100		
111	39.7	32.2	48.4
148	64.9	51.0	76.4

Manual Integrations
APPROVED

MMDadoda
7/25/2019 11:15:48 AM



#84

n-Butylbenzene

Concen: 1.857 ug/l

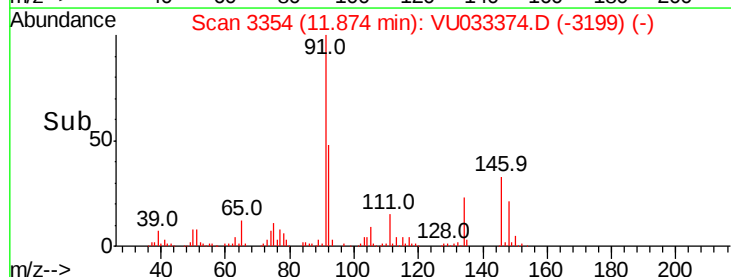
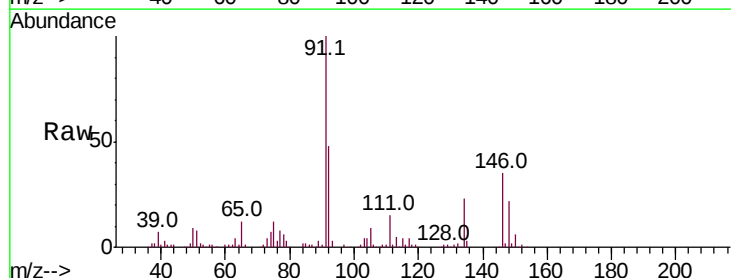
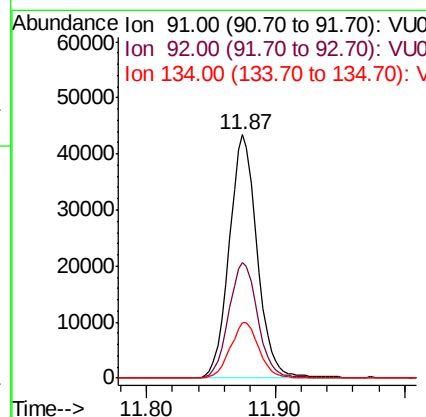
RT: 11.87 min Scan# 3354

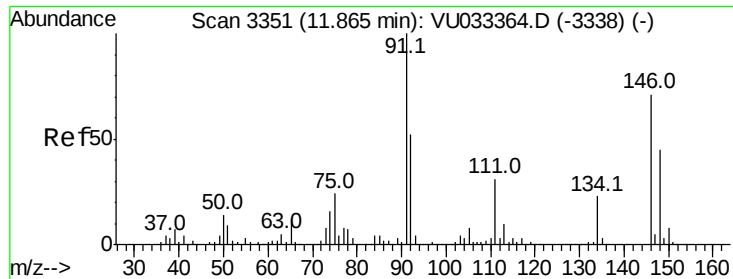
Delta R.T. -0.00 min

Lab File: VU033374.D

Acq: 23 Jul 2019 11:54

Tgt Ion:	91	Resp:	65240
Ion	Ratio	Lower	Upper
91	100		
92	49.2	41.0	61.6
134	23.4	19.5	29.3





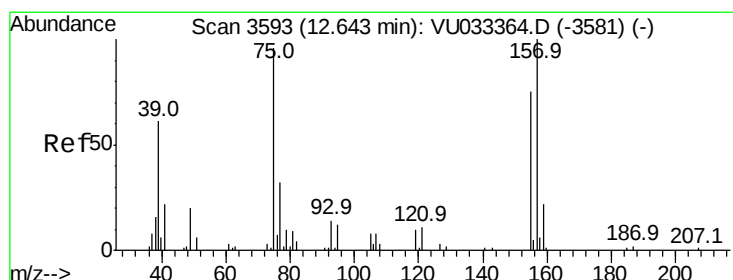
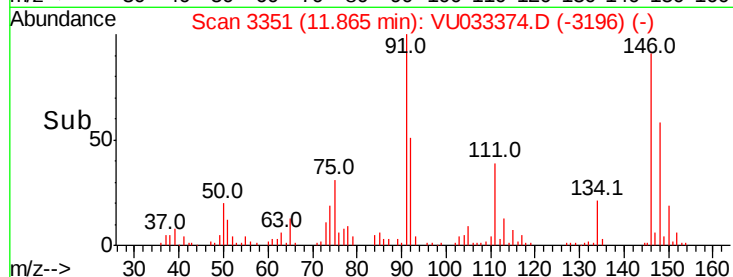
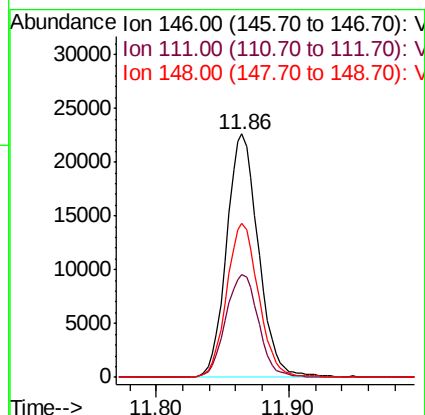
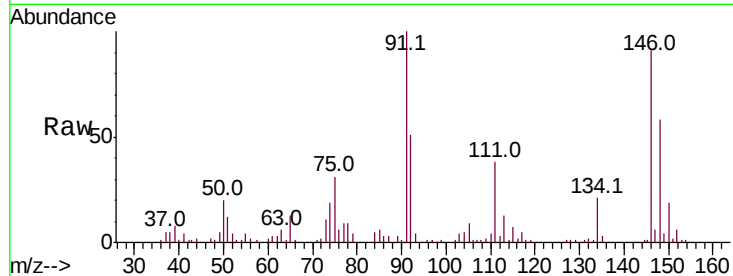
#85
 1,2-Dichlorobenzene
 Concen: 1.986 ug/l
 RT: 11.86 min Scan# 3351
 Delta R.T. -0.00 min
 Lab File: VU033374.D
 Acq: 23 Jul 2019 11:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0723WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.7	65.1
148	63.5	32.0	96.0

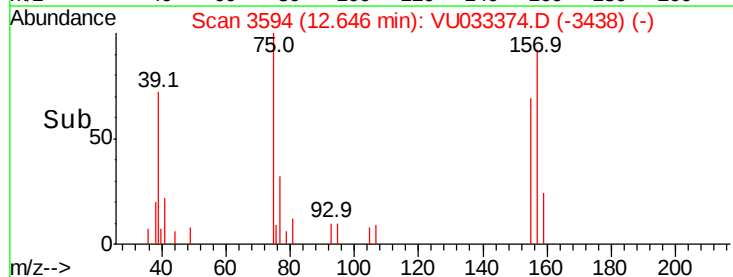
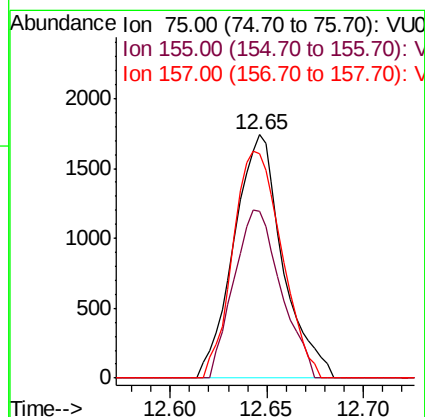
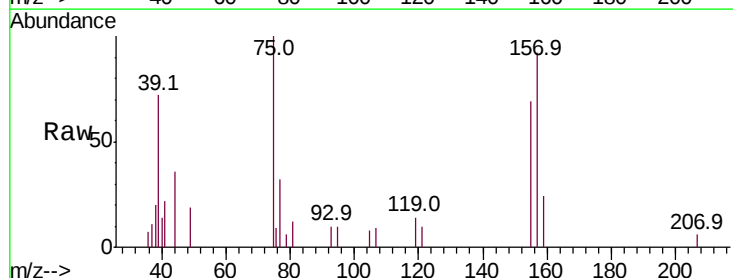
Manual Integrations
 APPROVED

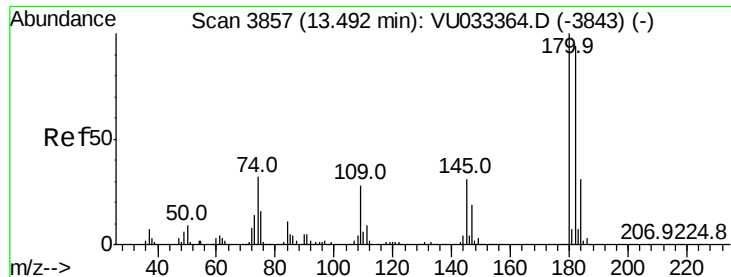
MMDadoda
 7/25/2019 11:15:48 AM



#86
 1,2-Dibromo-3-Chloropropane
 Concen: 2.065 ug/l
 RT: 12.65 min Scan# 3594
 Delta R.T. 0.00 min
 Lab File: VU033374.D
 Acq: 23 Jul 2019 11:54

Tgt Ion	Ratio	Lower	Upper
75	100		
155	66.7	63.3	94.9
157	93.1	82.5	123.7





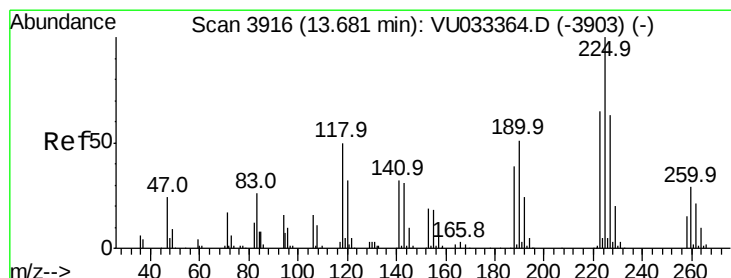
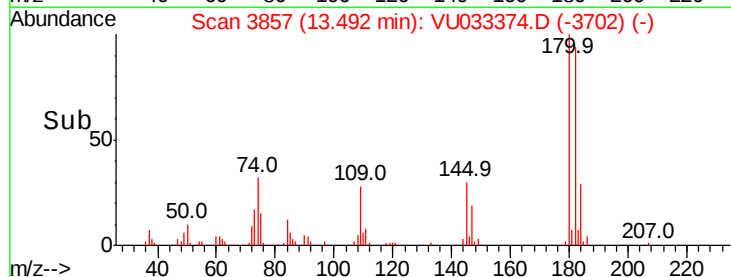
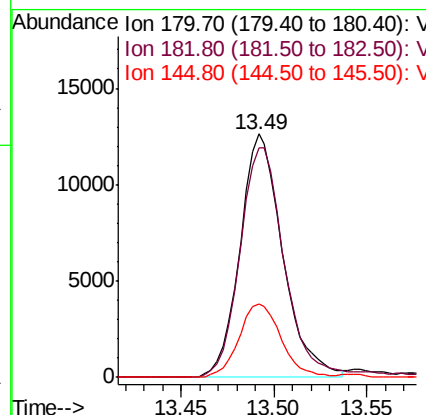
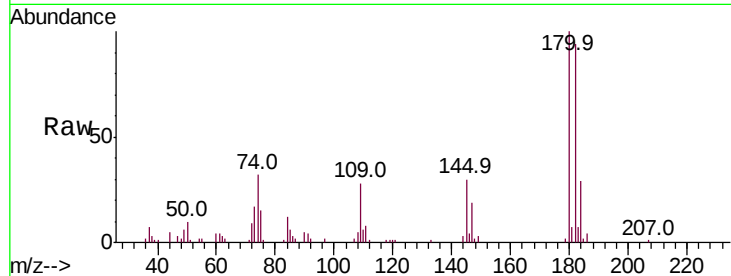
#87
 1,2,4-Trichlorobenzene
 Concen: 1.788 ug/l
 RT: 13.49 min Scan# 3857
 Delta R.T. -0.00 min
 Lab File: VU033374.D
 Acq: 23 Jul 2019 11:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0723WBSD01

Tot Ion:	180	Resp:	20190
Ion Ratio	Lower	Upper	
180	100		
182	99.1	76.2	114.4
145	29.8	25.0	37.4

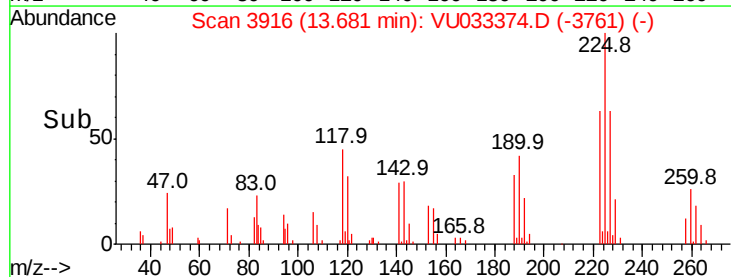
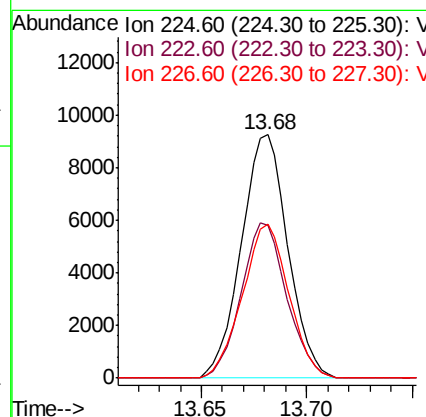
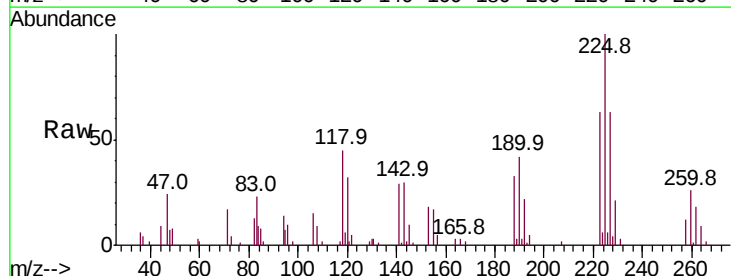
Manual Integrations
 APPROVED

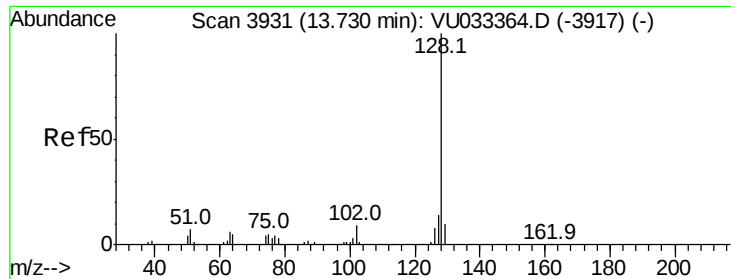
MMDadoda
 7/25/2019 11:15:48 AM



#88
 Hexachlorobutadiene
 Concen: 2.037 ug/l
 RT: 13.68 min Scan# 3916
 Delta R.T. -0.00 min
 Lab File: VU033374.D
 Acq: 23 Jul 2019 11:54

Tgt Ion:	225	Resp:	14186
Ion Ratio	Lower	Upper	
225	100		
223	62.4	52.2	78.4
227	63.1	51.7	77.5





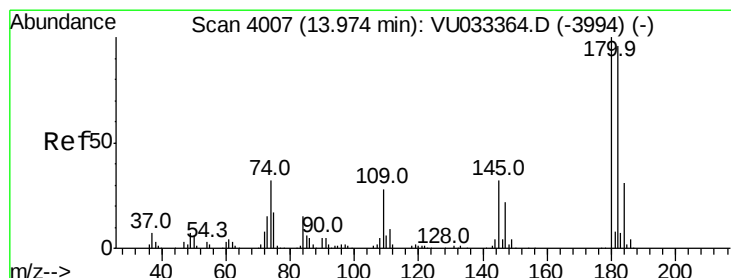
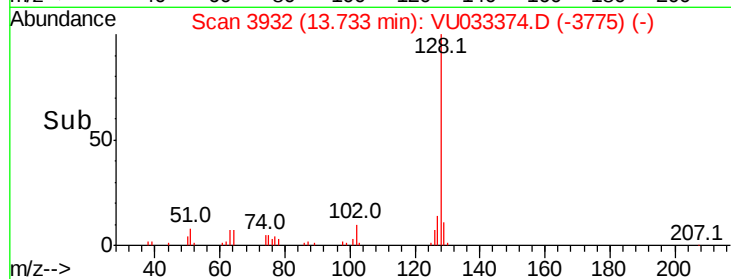
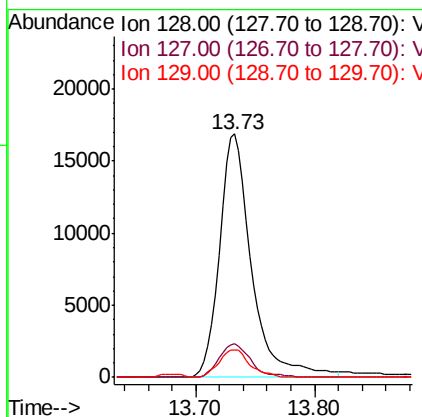
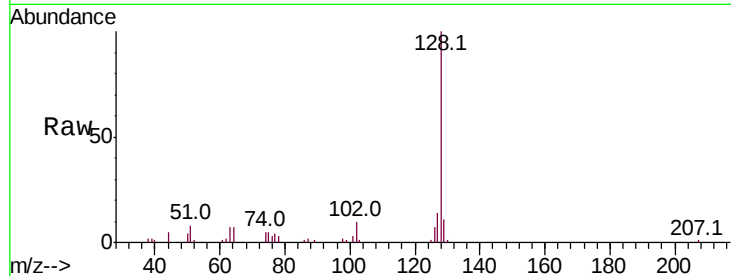
#89
Naphthalene
Concen: 1.804 ug/l
RT: 13.73 min Scan# 3932
Delta R.T. 0.00 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Instrument :
MSVOA_U
ClientSampleId :
VU0723WBSD01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.8	16.2
129	10.9	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
7/25/2019 11:15:48 AM



#90
1,2,3-Trichlorobenzene
Concen: 1.776 ug/l
RT: 13.98 min Scan# 4008
Delta R.T. 0.00 min
Lab File: VU033374.D
Acq: 23 Jul 2019 11:54

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.3	77.9	116.9
145	32.4	25.8	38.8

