

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU030719\
 Data File : VU029842.D
 Acq On : 06 Mar 2019 16:30
 Operator : JC/SP
 Sample : VSTDCCC010
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda

3/11/2019 4:50:46 PM

Quant Time: Mar 08 01:56:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U030719DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Fri Mar 08 00:30:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	5.74	96	64747	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.31	95	24950	1.07	ug/l	0.00
Spiked Amount 1.000			Recovery	=	107.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	28119	1.04	ug/l	0.00
Spiked Amount 1.000			Recovery	=	104.00%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.21	85	213981	9.877	ug/l	99
3) Chloromethane	1.33	50	183086	9.490	ug/l	100
4) Vinyl Chloride	1.40	62	218297	10.059	ug/l	99
5) Bromomethane	1.62	94	117368	7.919	ug/l	100
6) Chloroethane	1.69	64	129641	9.962	ug/l	98
7) Trichlorofluoromethane	1.88	101	295960	10.007	ug/l	98
8) 1,1,2-Trichloro-1,2,2-trif	2.29	101	169151	9.831	ug/l	97
9) 1,1-Dichloroethene	2.28	96	169352	10.056	ug/l	99
10) Iodomethane	2.41	142	193357	10.257	ug/l	99
11) Allyl Chloride	2.59	41	231912	9.796	ug/l	99
12) Acrylonitrile	2.93	53	70803	19.281	ug/l	99
13) Acetone	2.32	43	149091	49.021	ug/l	96
14) Carbon Disulfide	2.47	76	535643	9.821	ug/l	100
15) Methylene Chloride	2.69	84	192522	9.527	ug/l	99
16) trans-1,2-Dichloroethene	2.97	96	187037	9.831	ug/l	100
17) 1,1-Dichloroethane	3.44	63	327802	10.298	ug/l	99
18) 2-Butanone	4.27	43	216689	52.425	ug/l	99
19) Cyclohexane	4.98	56	257954m	10.437	ug/l	
20) Methylcyclohexane	6.41	83	305296	10.606	ug/l	99
21) 2,2-Dichloropropane	4.22	77	258134	9.921	ug/l	100
22) cis-1,2-Dichloroethene	4.22	96	205682	10.201	ug/l	99
23) Diethyl Ether	2.10	59	126896	10.050	ug/l	98
24) tert-Butyl Alcohol	2.83	59	131093	100.651	ug/l	98
25) Methyl tert-Butyl Ether	3.00	73	432935	10.208	ug/l	99
26) Bromochloromethane	4.54	128	91918	10.269	ug/l	97
27) Chloroform	4.67	83	323528	10.037	ug/l	98
28) 1,1,1-Trichloroethane	4.91	97	278031	10.173	ug/l	99
29) 1,1-Dichloropropene	5.13	75	246381	10.145	ug/l	98
30) Carbon Tetrachloride	5.13	117	246683	10.346	ug/l	99
31) Isopropyl Ether	3.58	45	451728	10.289	ug/l	100
32) Ethyl-t-butyl ether	4.07	59	443876	10.401	ug/l	100
33) Tert-Amyl methyl ether	5.58	73	422819	10.714	ug/l	99
34) Propionitrile	4.33	54	66540	54.119	ug/l	98
35) Benzene	5.38	78	735812	10.285	ug/l	99
36) 1,2-Dichloroethane	5.40	62	195999	10.030	ug/l	100
37) Trichloroethene	6.18	130	210042	10.055	ug/l	99
38) 1,2-Dichloropropane	6.43	63	186860	10.318	ug/l	100
39) Methacrylonitrile	4.55	41	53616	10.367	ug/l	99
40) Methyl acrylate	4.42	55	84877	10.383	ug/l	99
41) Tetrahydrofuran	4.65	42	53841	19.904	ug/l	98
42) 1-Chlorobutane	5.06	56	324331	10.453	ug/l	98

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Manual Integrations
 APPROVED

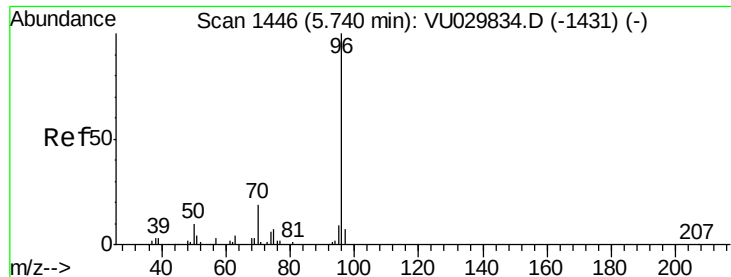
MMDadoda

3/11/2019 4:50:46 PM

Quant Time: Mar 08 01:56:12 2019
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 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Dibromomethane	6.56	93	97192	10.355	ug/l	99
44) Bromodichloromethane	6.75	83	238668	10.354	ug/l	99
45) 4-Methyl-2-Pentanone	7.46	43	528671	54.007	ug/l	100
46) t-1,4-Dichloro-2-butene	10.51	75	92213m	22.532	ug/l	
47) Methyl methacrylate	6.62	69	178765	22.195	ug/l	99
48) Ethyl methacrylate	8.02	69	180055	11.668	ug/l	99
49) Toluene	7.63	92	471211	10.725	ug/l	99
50) t-1,3-Dichloropropene	7.88	75	217997	10.791	ug/l	99
51) cis-1,3-Dichloropropene	7.27	75	268141	10.722	ug/l	99
52) 1,1,2-Trichloroethane	8.06	97	142644	10.267	ug/l	97
53) 1,3-Dichloropropane	8.24	76	236506	10.379	ug/l	99
54) 2-Hexanone	8.36	43	371456	54.638	ug/l	100
55) Dibromochloromethane	8.47	129	175469	10.642	ug/l	100
56) 1,2-Dibromoethane	8.59	107	134195	10.187	ug/l	98
58) Tetrachloroethene	8.22	164	215890	10.119	ug/l	99
59) Chlorobenzene	9.12	112	531601	10.528	ug/l	97
60) 1,1,1,2-Tetrachloroethane	9.21	131	187295	10.340	ug/l	99
61) Pentachloroethane	11.10	117	132171	10.481	ug/l	99
62) Hexachloroethane	12.14	117	141695	10.681	ug/l	98
63) Ethyl Benzene	9.24	91	902890	10.916	ug/l	100
64) m/p-Xylenes	9.37	106	728874	22.290	ug/l	100
65) o-Xylene	9.77	106	351875	11.204	ug/l	100
66) Styrene	9.79	104	593702	11.379	ug/l	100
67) Bromoform	9.95	173	106435	10.990	ug/l	100
69) Isopropylbenzene	10.16	105	925641	11.115	ug/l	99
70) 1,1,2,2-Tetrachloroethane	10.45	83	180104	10.630	ug/l	99
71) 1,2,3-Trichloropropane	10.49	75	128270m	10.186	ug/l	
72) Bromobenzene	10.45	156	237839	10.790	ug/l	97
73) n-propylbenzene	10.58	120	263505	11.255	ug/l	99
74) 2-Chlorotoluene	10.66	126	224999	10.834	ug/l	99
75) 1,3,5-Trimethylbenzene	10.77	105	786833	11.215	ug/l	100
76) 4-Chlorotoluene	10.77	126	232236	10.966	ug/l	100
77) tert-Butylbenzene	11.10	119	770108	11.095	ug/l	99
78) 1,2,4-Trimethylbenzene	11.14	105	804545	11.349	ug/l	99
79) sec-Butylbenzene	11.32	105	1044519	11.354	ug/l	100
80) Nitrobenzene	12.86	77	17028	55.361	ug/l	97
81) p-Isopropyltoluene	11.47	119	880301	11.430	ug/l	100
82) 1,3-Dichlorobenzene	11.41	146	466806	10.693	ug/l	100
83) 1,4-Dichlorobenzene	11.50	146	462153	10.834	ug/l	99
84) n-Butylbenzene	11.89	91	805592	11.480	ug/l	99
85) 1,2-Dichlorobenzene	11.87	146	434341	10.551	ug/l	100
86) 1,2-Dibromo-3-Chloropropan	12.65	75	26602	10.996	ug/l	100
87) 1,2,4-Trichlorobenzene	13.50	180	299402	11.357	ug/l	99
88) Hexachlorobutadiene	13.69	225	175180	10.550	ug/l	99
89) Naphthalene	13.74	128	507480	9.946	ug/l	100
90) 1,2,3-Trichlorobenzene	13.98	180	276685	11.172	ug/l	98

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



#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.74 min Scan# 1446

Delta R.T. -0.00 min

Lab File: VU029842.D

Acq: 06 Mar 2019 16:30

Instrument :

MSVOA_U

ClientSampleId :

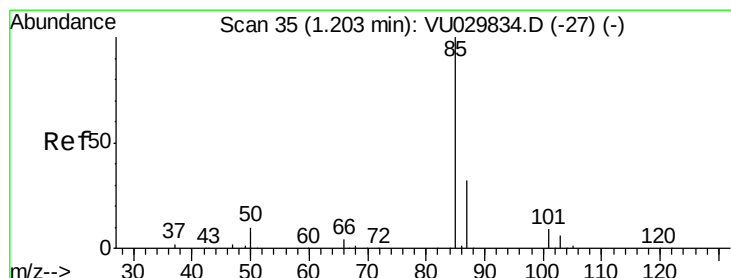
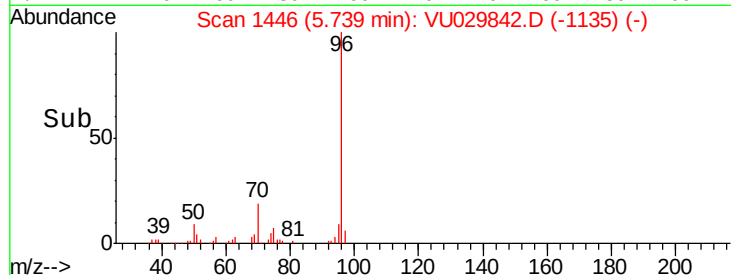
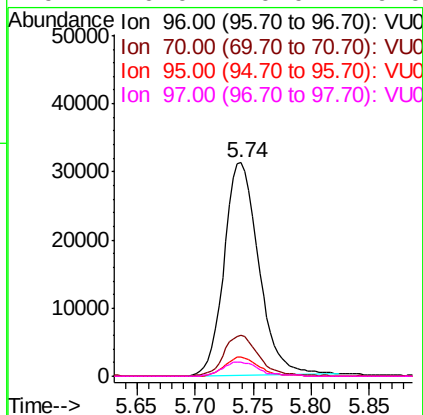
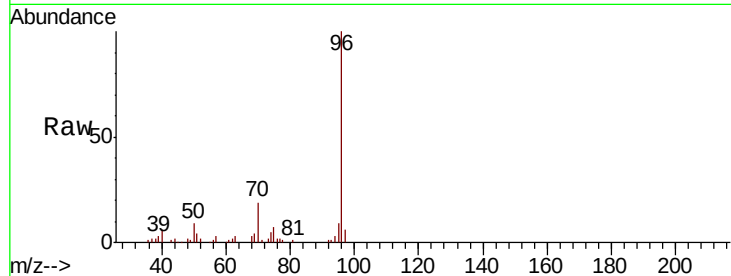
VSTDCCC010EC

Tgt Ion:	96	Resp:	64747
Ion	Ratio	Lower	Upper
96	100		
70	19.3	14.4	21.6
95	9.0	7.0	10.6
97	0.0	0.0	0.0

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 9.877 ug/l

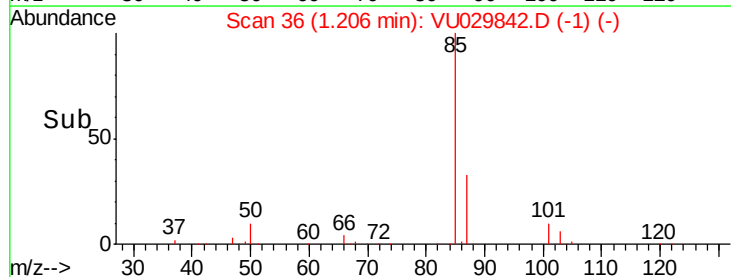
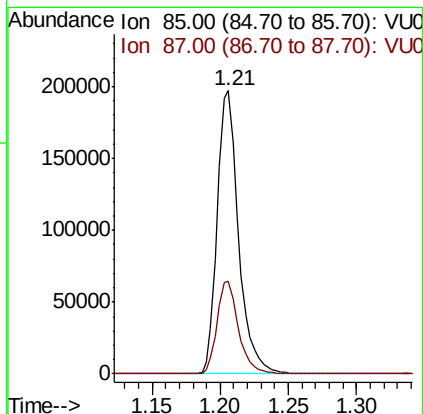
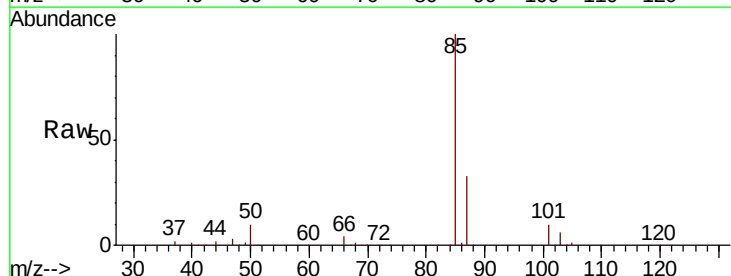
RT: 1.21 min Scan# 36

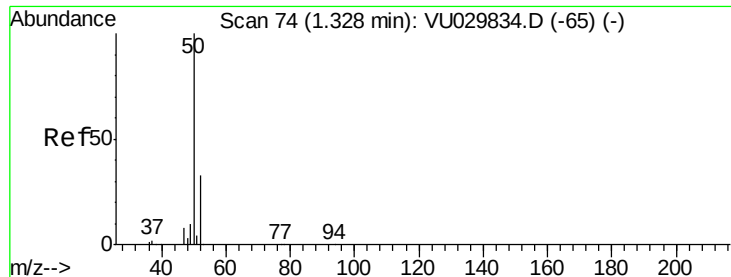
Delta R.T. 0.00 min

Lab File: VU029842.D

Acq: 06 Mar 2019 16:30

Tgt Ion:	85	Resp:	213981
Ion	Ratio	Lower	Upper
85	100		
87	32.8	16.2	48.6





#3

Chloromethane

Concen: 9.490 ug/l

RT: 1.33 min Scan# 74

Delta R.T. -0.00 min

Lab File: VU029842.D

Acq: 06 Mar 2019 16:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 50 Resp: 183086

Ion Ratio Lower Upper

50 100

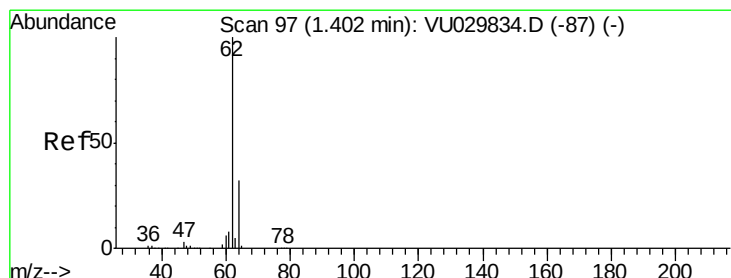
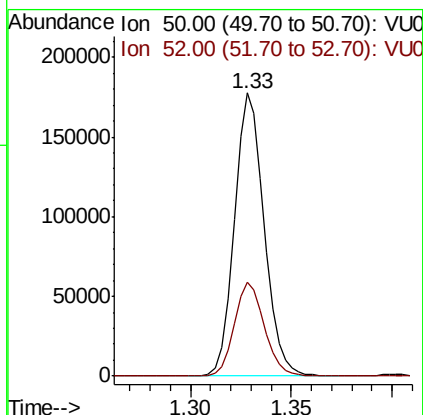
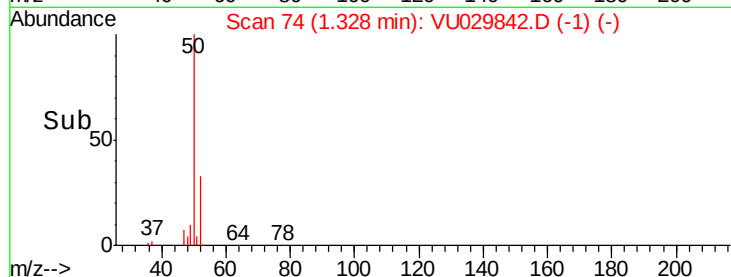
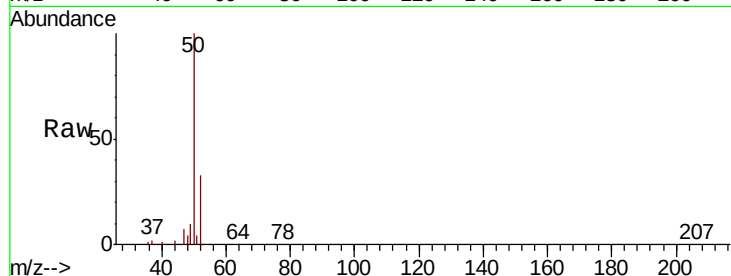
52 33.0 26.5 39.7

Manual Integrations

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#4

Vinyl Chloride

Concen: 10.059 ug/l

RT: 1.40 min Scan# 97

Delta R.T. -0.00 min

Lab File: VU029842.D

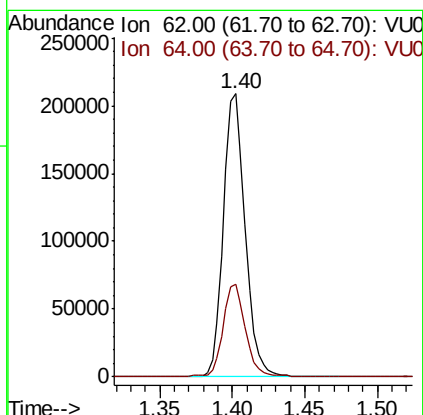
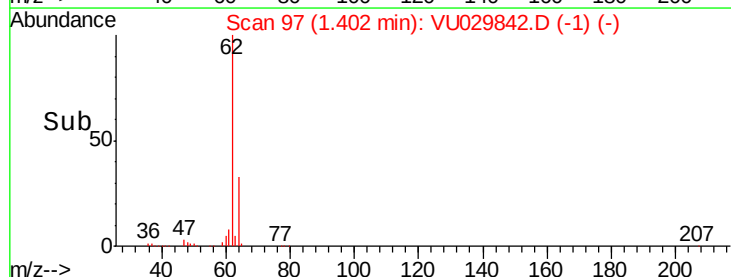
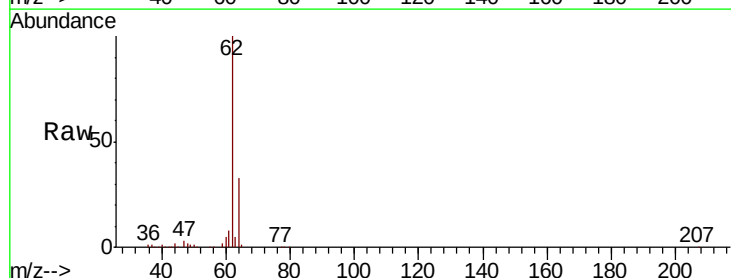
Acq: 06 Mar 2019 16:30

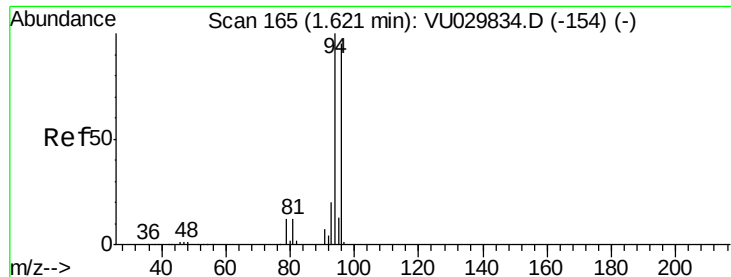
Tgt Ion: 62 Resp: 218297

Ion Ratio Lower Upper

62 100

64 32.6 25.7 38.5





#5

Bromomethane

Concen: 7.919 ug/l

RT: 1.62 min Scan# 165

Delta R.T. -0.00 min

Lab File: VU029842.D

Acq: 06 Mar 2019 16:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 94 Resp: 117368

Ion Ratio Lower Upper

94 100

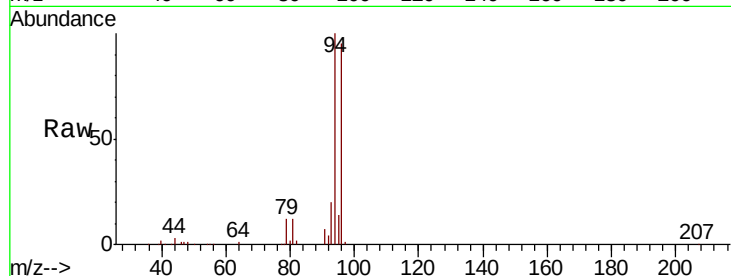
96 95.2 76.4 114.6

Manual Integrations

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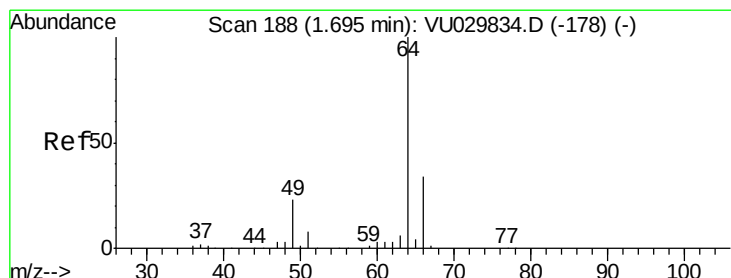
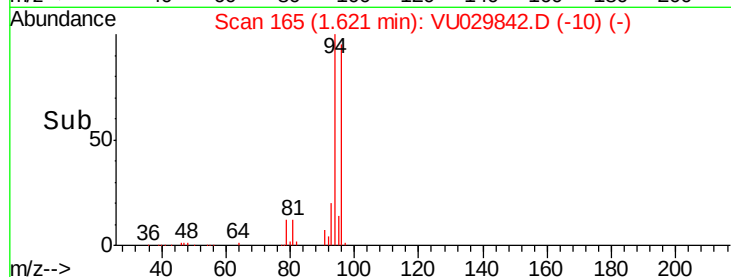
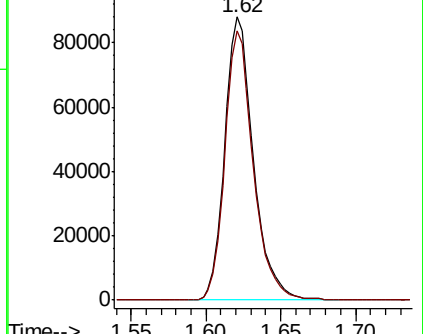
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Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0



#6

Chloroethane

Concen: 9.962 ug/l

RT: 1.69 min Scan# 188

Delta R.T. -0.00 min

Lab File: VU029842.D

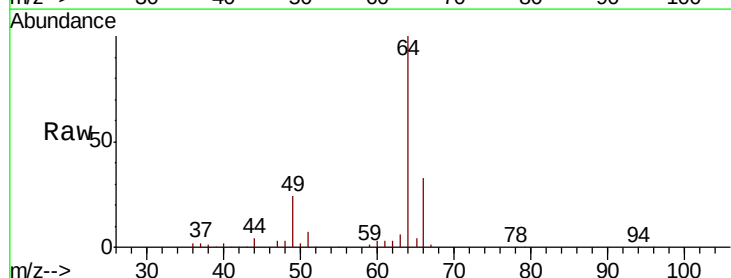
Acq: 06 Mar 2019 16:30

Tgt Ion: 64 Resp: 129641

Ion Ratio Lower Upper

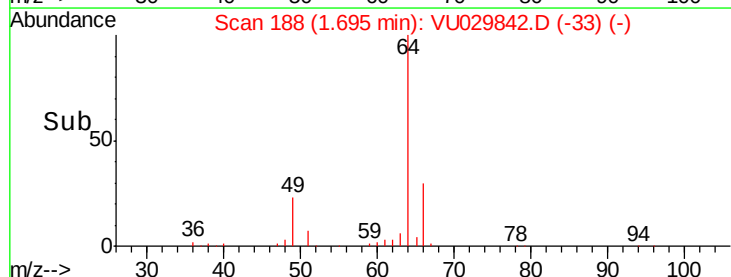
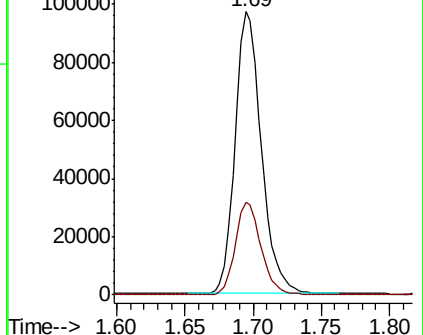
64 100

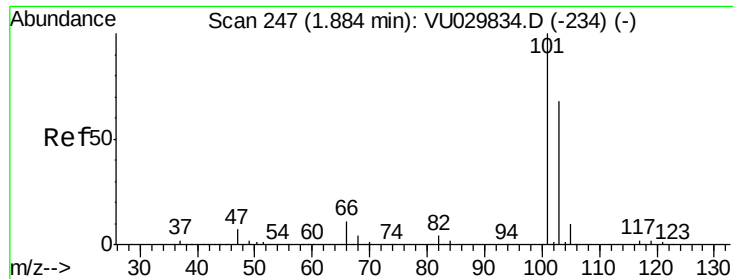
66 33.0 27.3 40.9



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0





#7

Trichlorofluoromethane
Concen: 10.007 ug/l
RT: 1.88 min Scan# 247
Delta R.T. -0.00 min
Lab File: VU029842.D
Acq: 06 Mar 2019 16:30

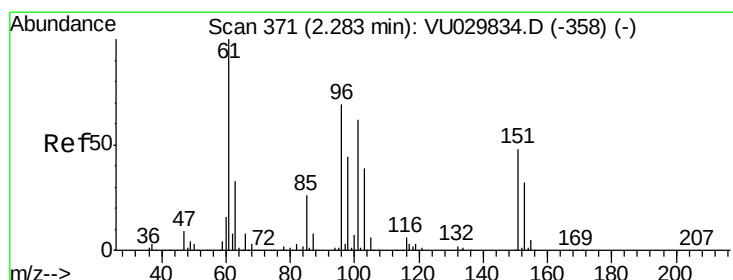
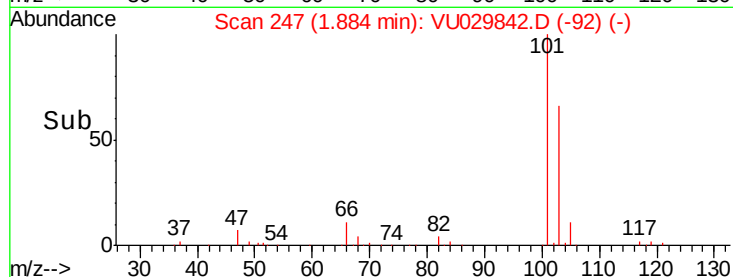
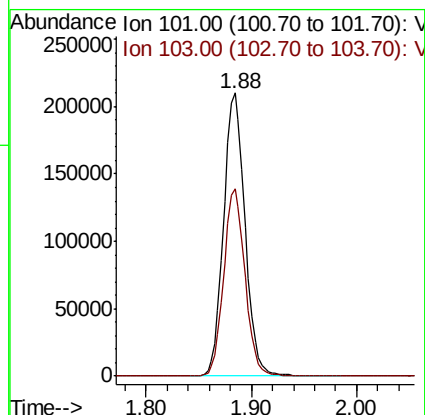
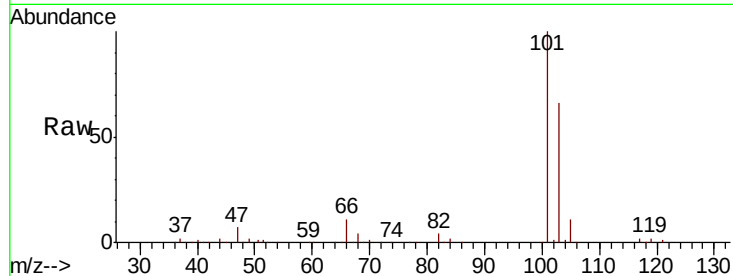
Instrument :
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VSTDCCC010EC

Tgt	Ion	Ratio	Resp	Lower	Upper
101	100		295960		
103	66.1	54.2	81.2		

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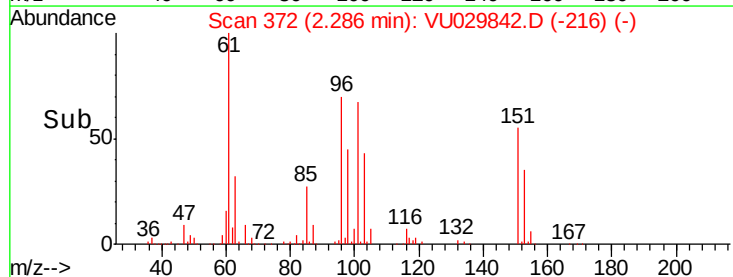
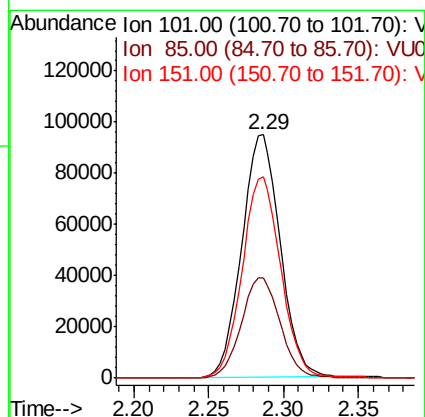
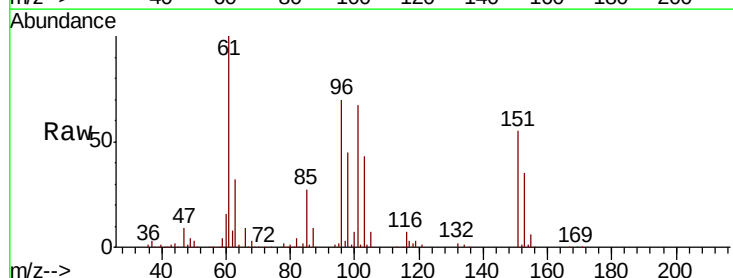
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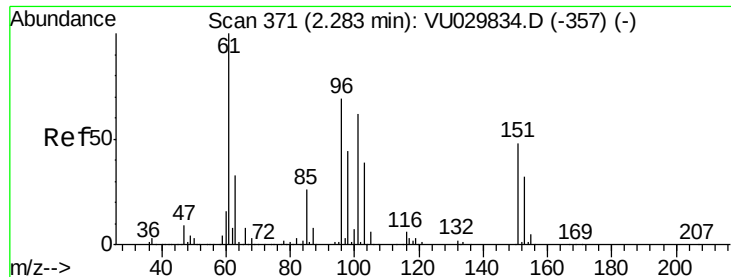


#8

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 9.831 ug/l
RT: 2.29 min Scan# 372
Delta R.T. 0.00 min
Lab File: VU029842.D
Acq: 06 Mar 2019 16:30

Tgt	Ion	Ratio	Resp	Lower	Upper
101	100		169151		
85	42.1	33.4	50.0		
151	84.2	64.6	97.0		





#9

1,1-Dichloroethene

Concen: 10.056 ug/l

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU029842.D

Acq: 06 Mar 2019 16:30

Instrument :

MSVOA_U

ClientSampleId :

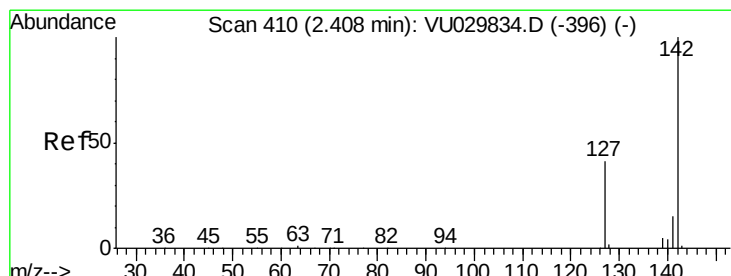
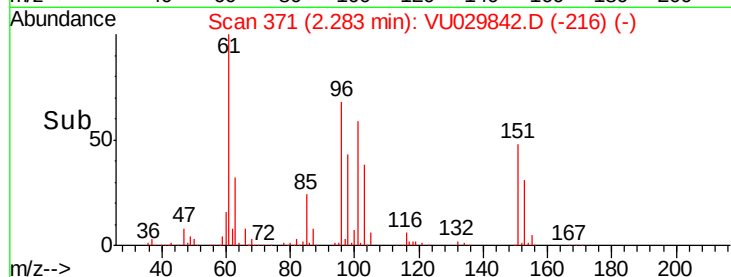
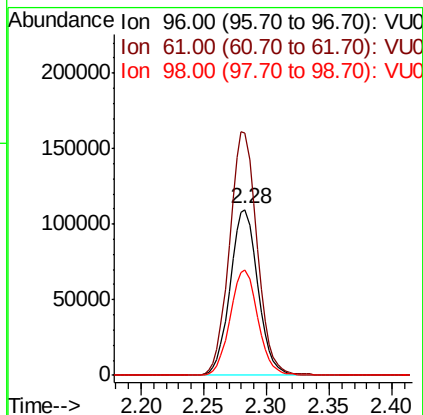
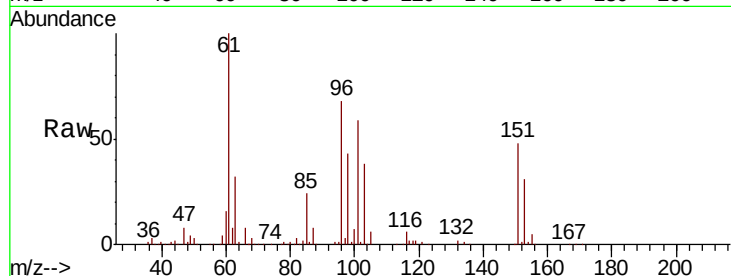
VSTDCCC010EC

Tgt Ion:	96	Resp:	169352
Ion Ratio	Lower	Upper	
96	100		
61	146.7	0.0	435.3
98	63.6	0.0	128.6

Manual Integrations
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#10

Iodomethane

Concen: 10.257 ug/l

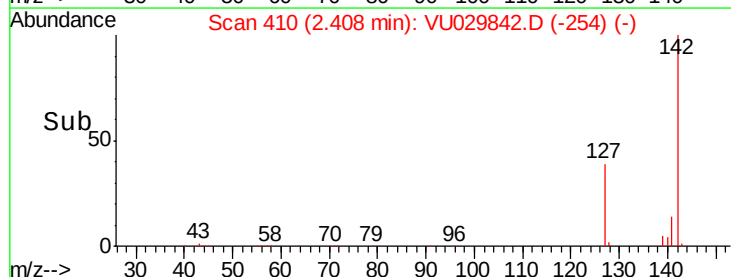
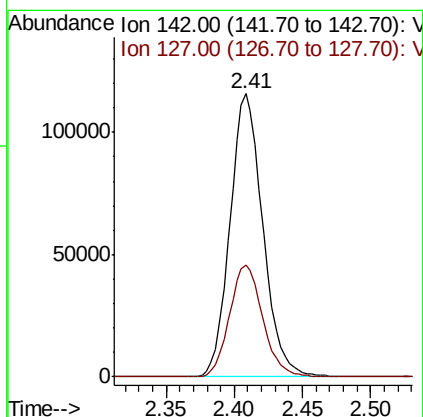
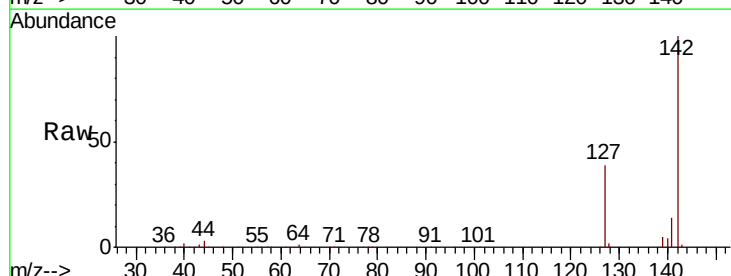
RT: 2.41 min Scan# 410

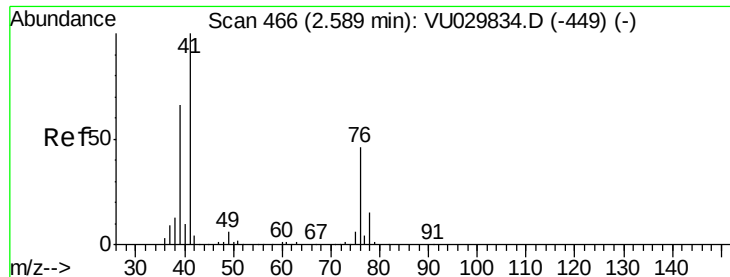
Delta R.T. 0.00 min

Lab File: VU029842.D

Acq: 06 Mar 2019 16:30

Tgt Ion:	142	Resp:	193357
Ion Ratio	Lower	Upper	
142	100		
127	39.9	32.3	48.5





#11
 Allyl Chloride
 Concen: 9.796 ug/l
 RT: 2.59 min Scan# 466
 Delta R.T. -0.00 min
 Lab File: VU029842.D
 Acq: 06 Mar 2019 16:30

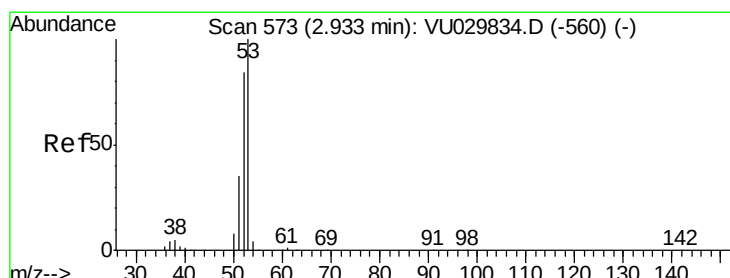
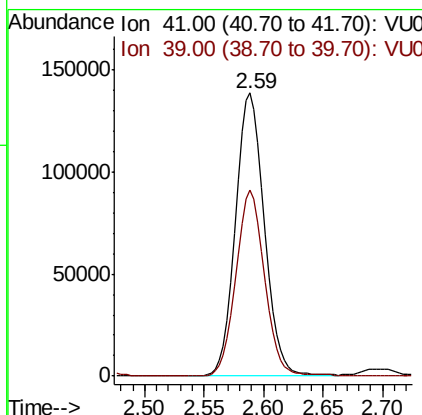
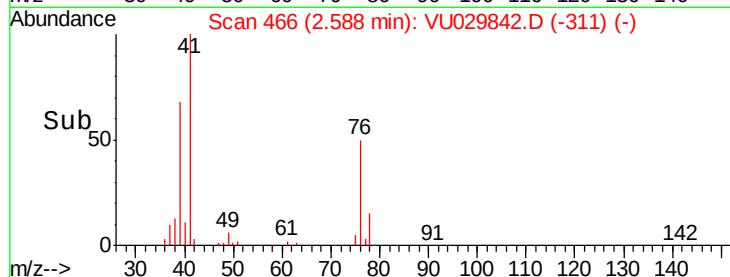
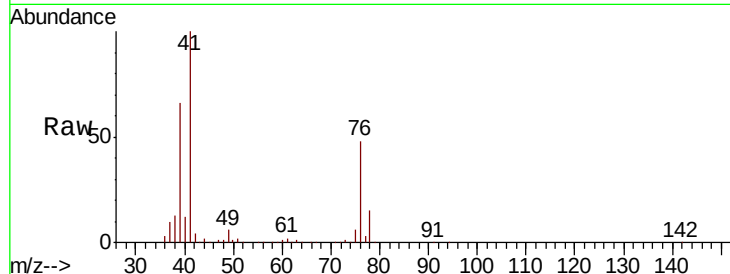
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 41 Resp: 231912
 Ion Ratio Lower Upper
 41 100
 39 65.4 51.6 77.4

Manual Integrations
 APPROVED

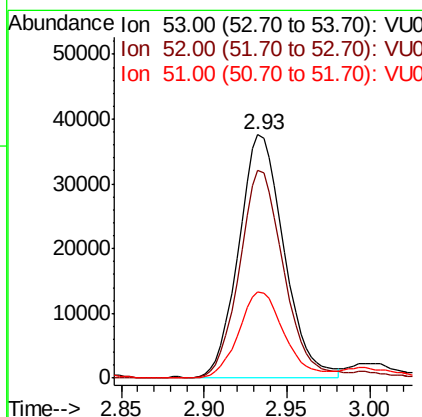
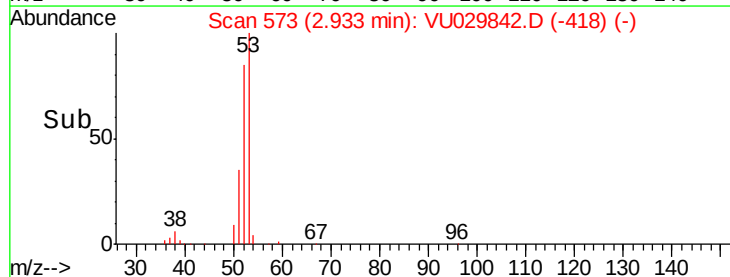
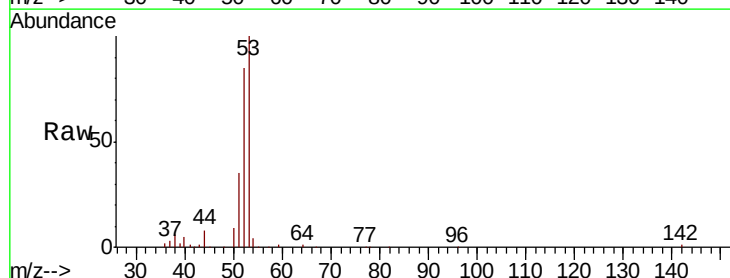
MMDadoda

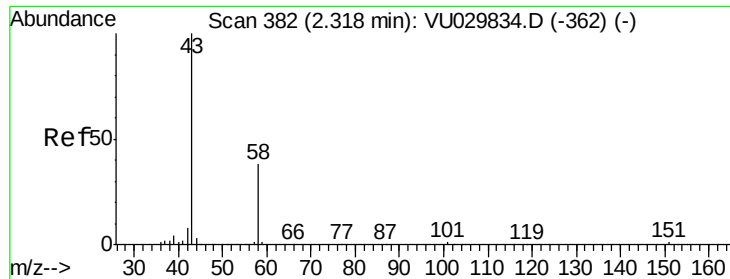
3/11/2019 4:50:46 PM



#12
 Acrylonitrile
 Concen: 19.281 ug/l
 RT: 2.93 min Scan# 573
 Delta R.T. -0.00 min
 Lab File: VU029842.D
 Acq: 06 Mar 2019 16:30

Tgt Ion: 53 Resp: 70803
 Ion Ratio Lower Upper
 53 100
 52 84.3 66.5 99.7
 51 35.9 28.6 42.8





#13
Acetone
Concen: 49.021 ug/l
RT: 2.32 min Scan# 382
Delta R.T. -0.00 min
Lab File: VU029842.D
Acq: 06 Mar 2019 16:30

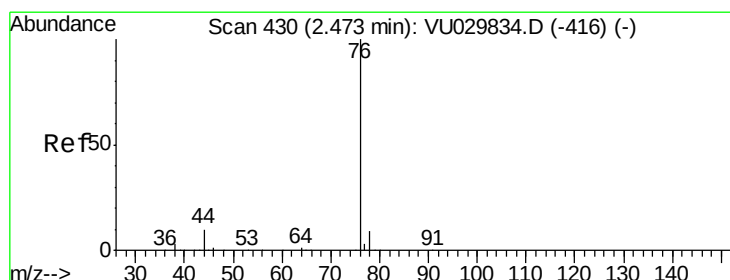
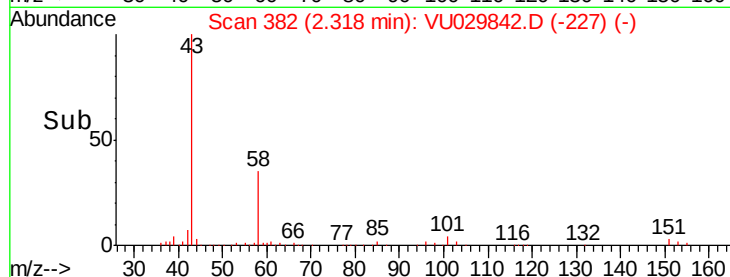
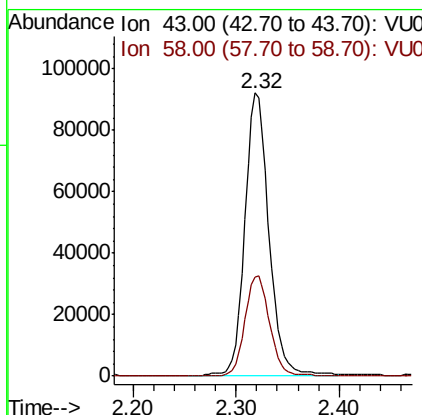
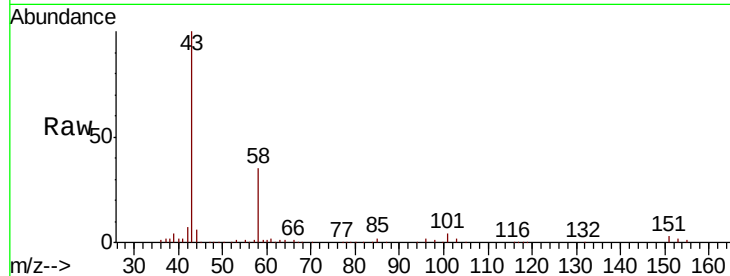
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 43 Resp: 149091
Ion Ratio Lower Upper
43 100
58 35.3 30.2 45.2

Manual Integrations
APPROVED

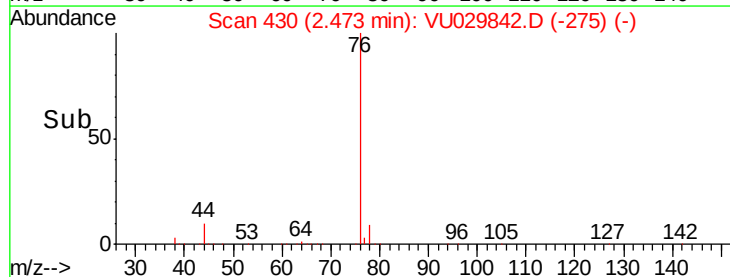
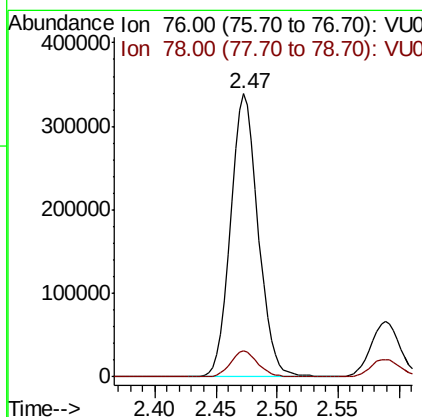
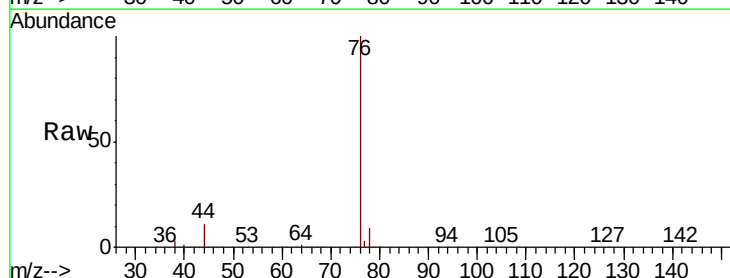
MMDadoda

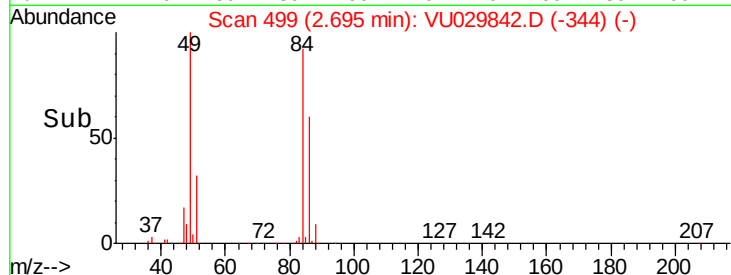
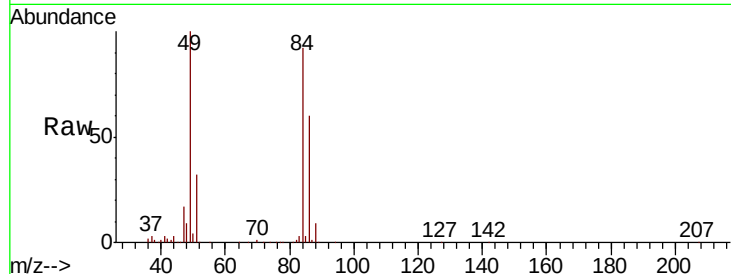
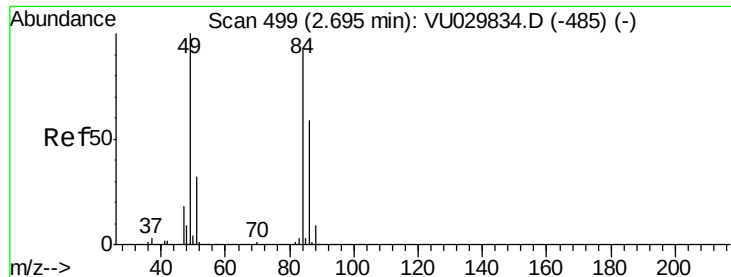
3/11/2019 4:50:46 PM



#14
Carbon Disulfide
Concen: 9.821 ug/l
RT: 2.47 min Scan# 430
Delta R.T. -0.00 min
Lab File: VU029842.D
Acq: 06 Mar 2019 16:30

Tgt Ion: 76 Resp: 535643
Ion Ratio Lower Upper
76 100
78 9.1 7.2 10.8





#15
Methylene Chloride
Concen: 9.527 ug/l
RT: 2.69 min Scan# 499
Delta R.T. -0.00 min
Lab File: VU029842.D
Acq: 06 Mar 2019 16:30

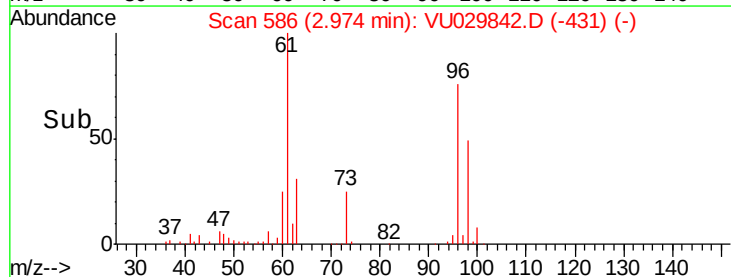
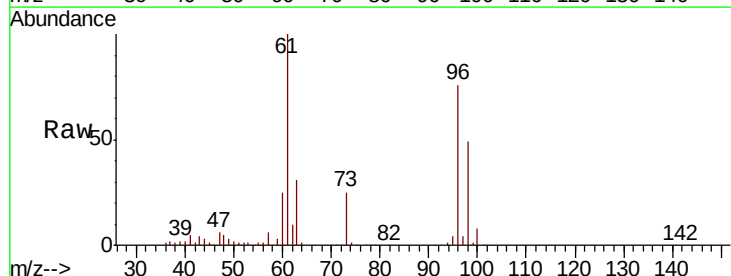
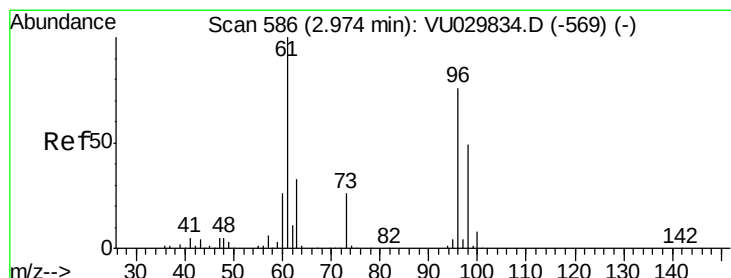
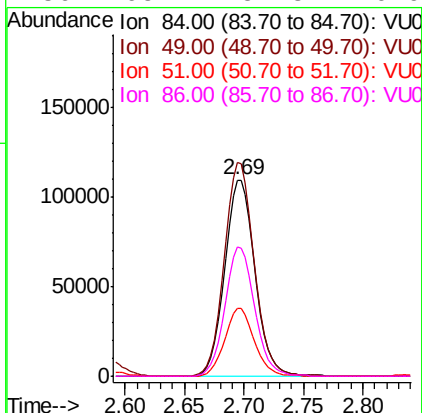
Tgt Ion	Ratio	Lower	Upper
84	100		
49	109.0	87.2	130.8
51	34.6	0.0	69.0
86	65.7	51.3	76.9

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Manual Integrations
APPROVED

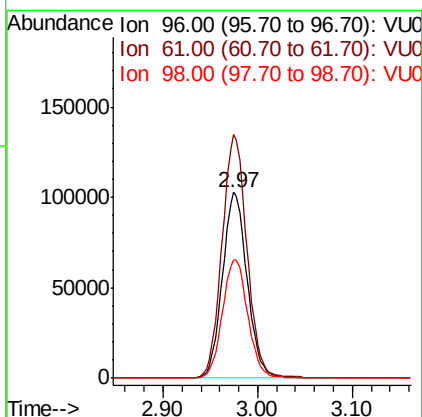
MMDadoda

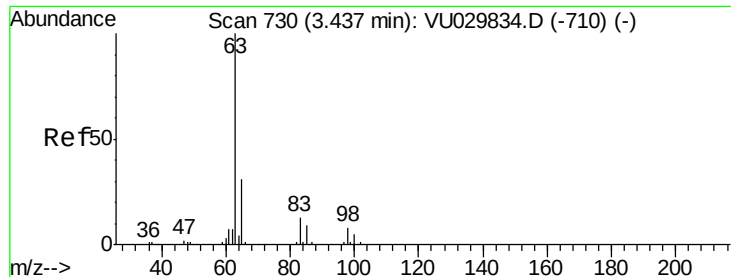
3/11/2019 4:50:46 PM



#16
trans-1,2-Dichloroethene
Concen: 9.831 ug/l
RT: 2.97 min Scan# 586
Delta R.T. -0.00 min
Lab File: VU029842.D
Acq: 06 Mar 2019 16:30

Tgt Ion	Ratio	Lower	Upper
96	100		
61	130.9	104.7	157.1
98	63.9	50.9	76.3





#17
 1,1-Dichloroethane
 Concen: 10.298 ug/l
 RT: 3.44 min Scan# 730
 Delta R.T. -0.00 min
 Lab File: VU029842.D
 Acq: 06 Mar 2019 16:30

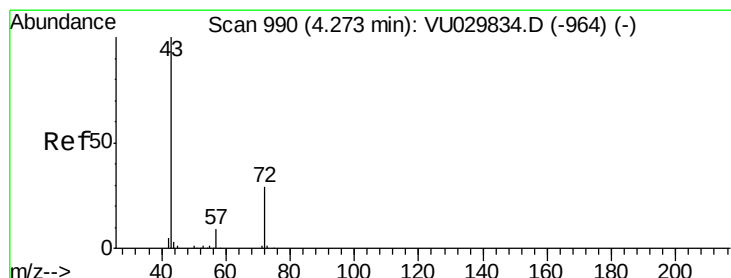
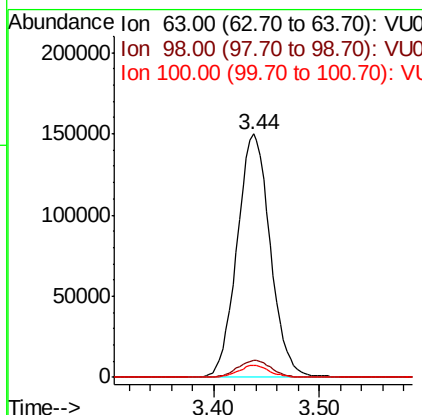
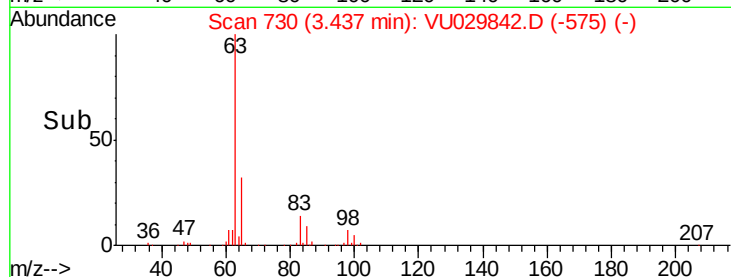
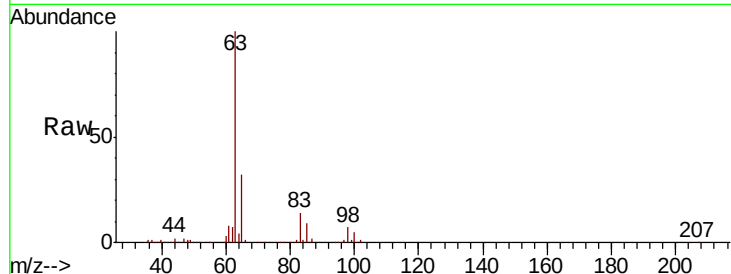
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.8	11.4
100	4.9	2.4	7.1

Manual Integrations
 APPROVED

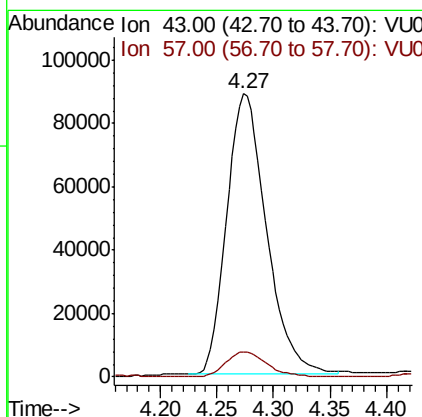
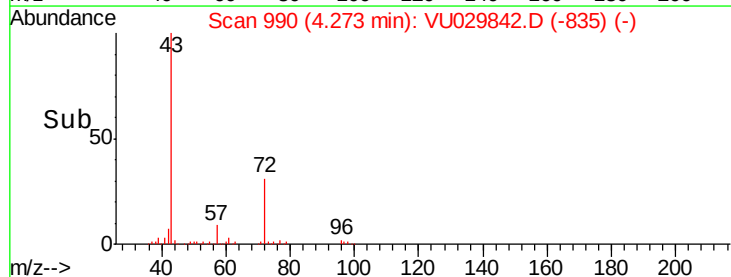
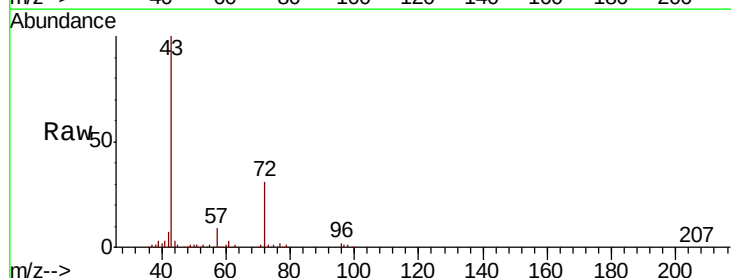
MMDadoda

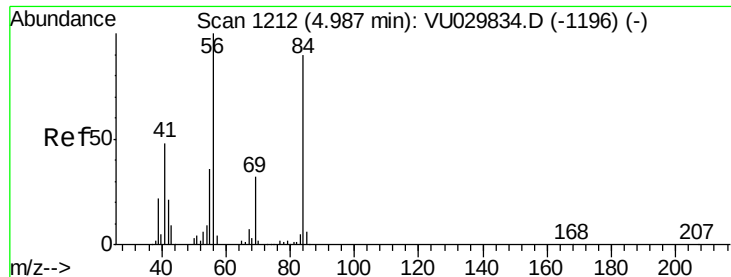
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#18
 2-Butanone
 Concen: 52.425 ug/l
 RT: 4.27 min Scan# 990
 Delta R.T. -0.00 min
 Lab File: VU029842.D
 Acq: 06 Mar 2019 16:30

Tgt Ion	Ratio	Lower	Upper
43	100		
57	8.8	0.0	18.6





#19
Cyclohexane
Concen: 10.437 ug/l m
RT: 4.98 min Scan# 1211
Delta R.T. -0.00 min
Lab File: VU029842.D
Acq: 06 Mar 2019 16:30

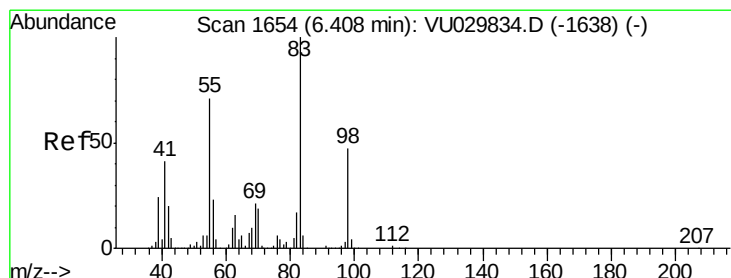
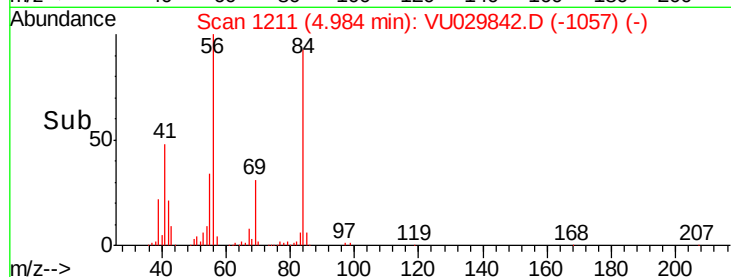
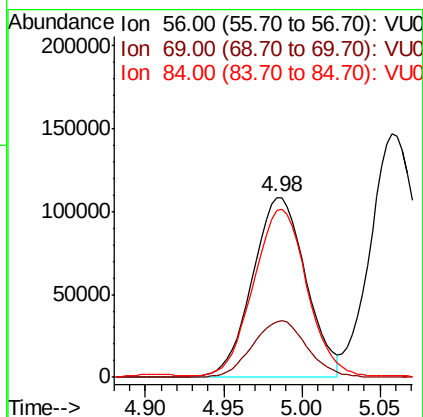
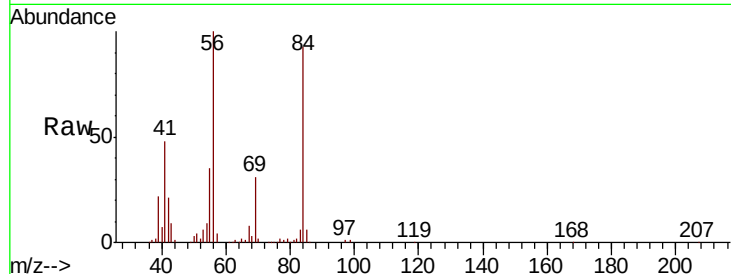
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
56	100		
69	32.0	29.4	44.2
84	92.4	84.6	127.0

Manual Integrations
APPROVED

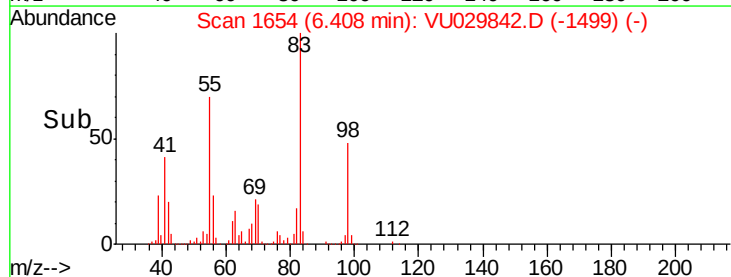
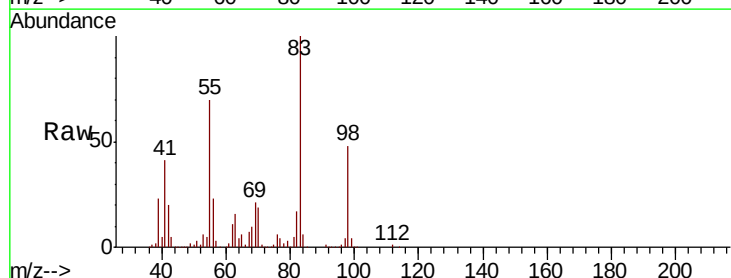
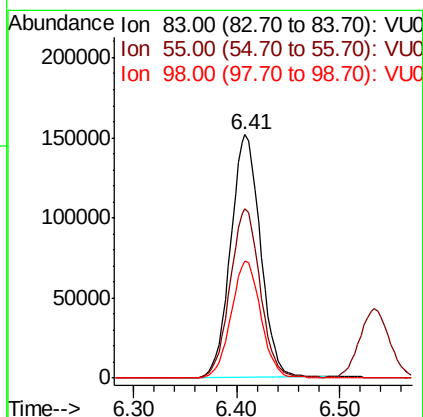
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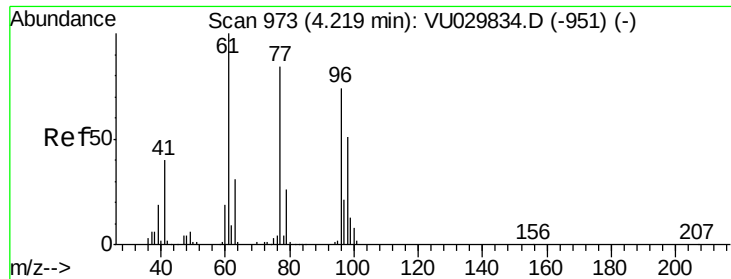
3/11/2019 4:50:46 PM



#20
Methylcyclohexane
Concen: 10.606 ug/l
RT: 6.41 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VU029842.D
Acq: 06 Mar 2019 16:30

Tgt Ion	Ratio	Lower	Upper
83	100		
55	69.8	55.9	83.9
98	47.9	37.0	55.4





#21
 2,2-Dichloropropane
 Concen: 9.921 ug/l
 RT: 4.22 min Scan# 973
 Delta R.T. -0.00 min
 Lab File: VU029842.D
 Acq: 06 Mar 2019 16:30

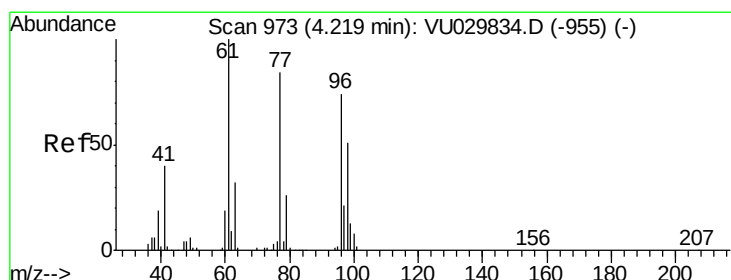
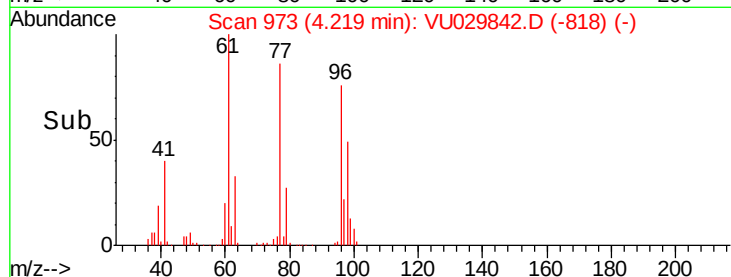
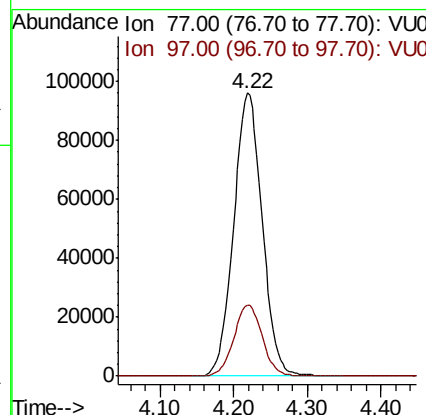
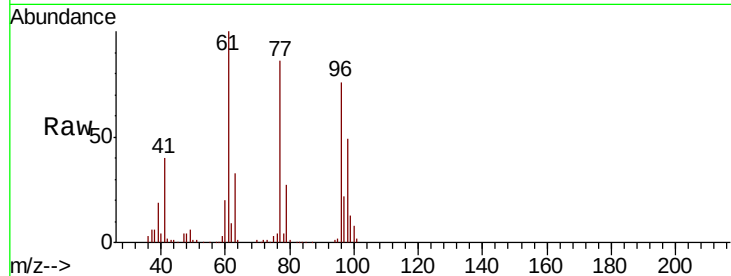
Instrument :
 MSVOA_U
 ClientSampled :
 VSTDCCC010EC

Tgt Ion: 77 Resp: 258134
 Ion Ratio Lower Upper
 77 100
 97 25.1 20.2 30.2

Manual Integrations
 APPROVED

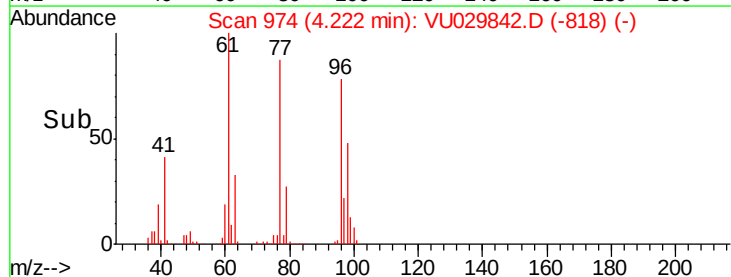
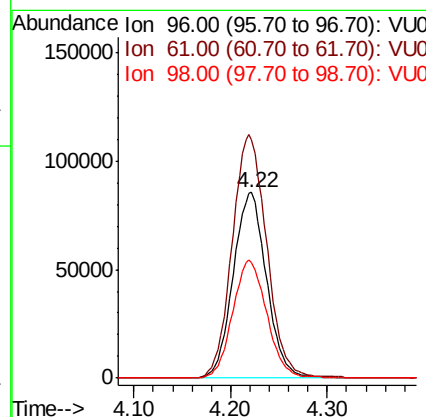
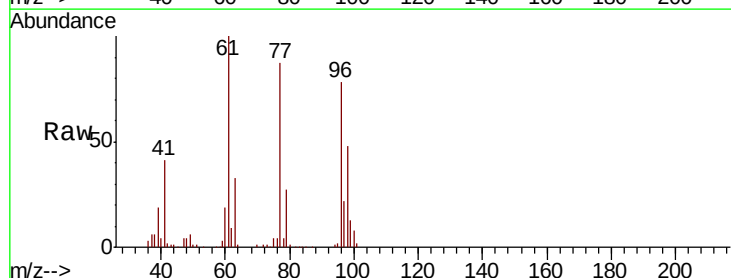
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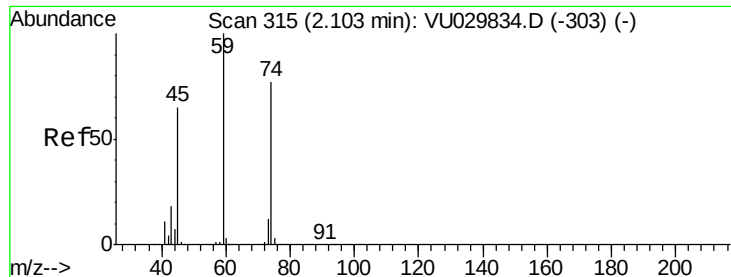
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#22
 cis-1,2-Dichloroethene
 Concen: 10.201 ug/l
 RT: 4.22 min Scan# 974
 Delta R.T. 0.00 min
 Lab File: VU029842.D
 Acq: 06 Mar 2019 16:30

Tgt Ion: 96 Resp: 205682
 Ion Ratio Lower Upper
 96 100
 61 135.4 0.0 339.0
 98 64.9 33.1 99.5





#23
Diethyl Ether
Concen: 10.050 ug/l
RT: 2.10 min Scan# 315
Delta R.T. -0.00 min
Lab File: VU029842.D
Acq: 06 Mar 2019 16:30

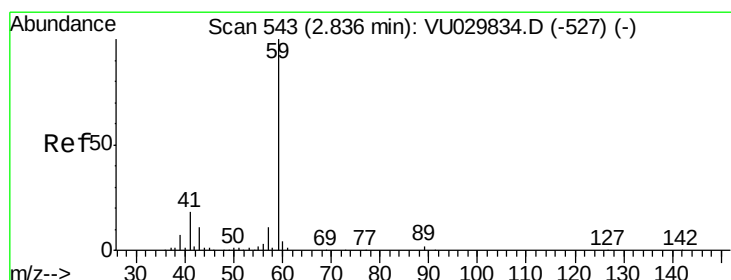
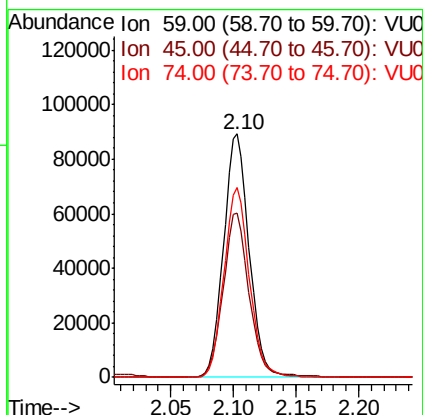
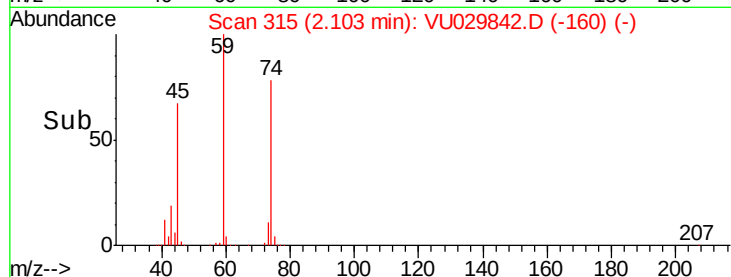
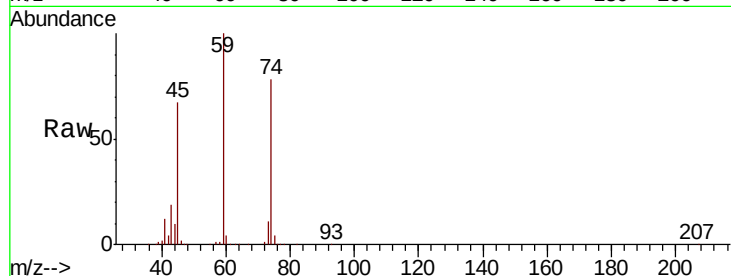
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
59	100		
45	68.2	52.7	79.1
74	77.7	61.8	92.6

Manual Integrations
APPROVED

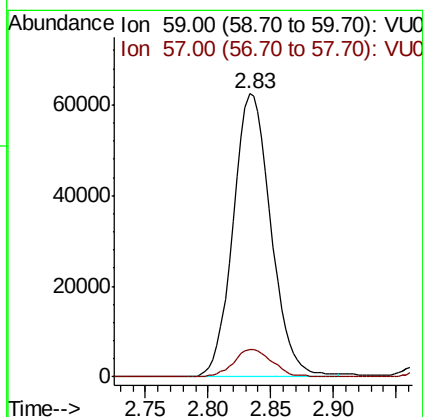
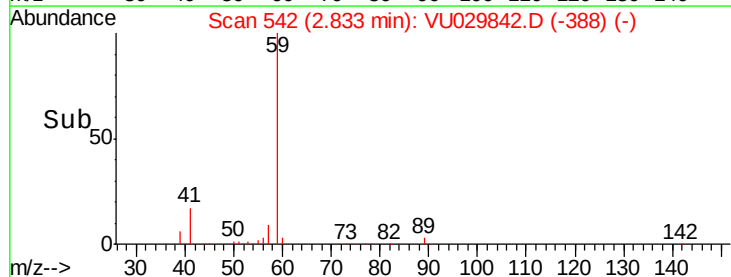
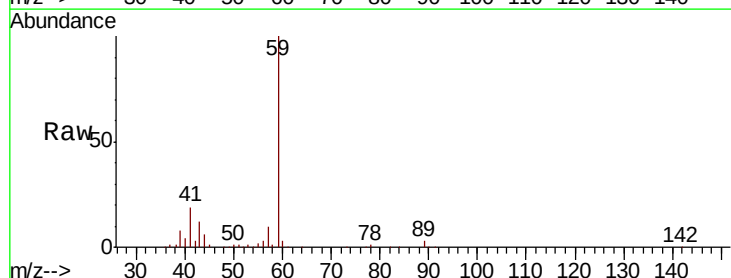
MMDadoda

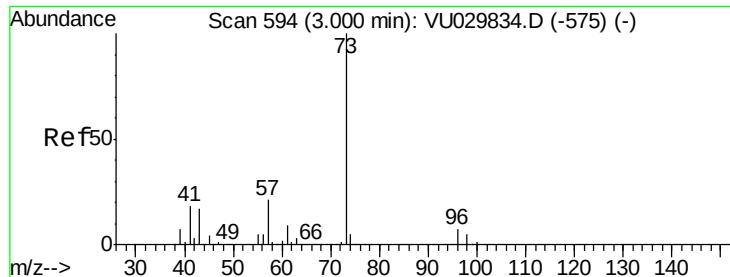
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#24
tert-Butyl Alcohol
Concen: 100.651 ug/l
RT: 2.83 min Scan# 542
Delta R.T. -0.00 min
Lab File: VU029842.D
Acq: 06 Mar 2019 16:30

Tgt Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.5	12.7





#25

Methyl tert-Butyl Ether
Concen: 10.208 ug/l
RT: 3.00 min Scan# 594
Delta R.T. -0.00 min
Lab File: VU029842.D
Acq: 06 Mar 2019 16:30

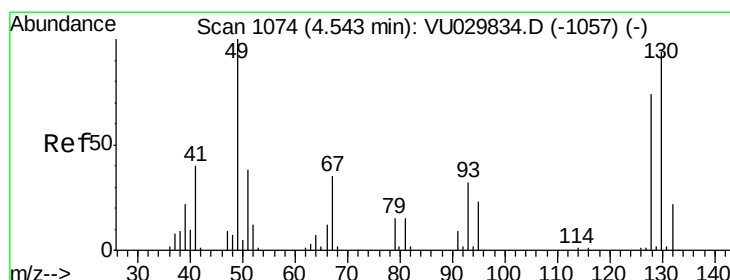
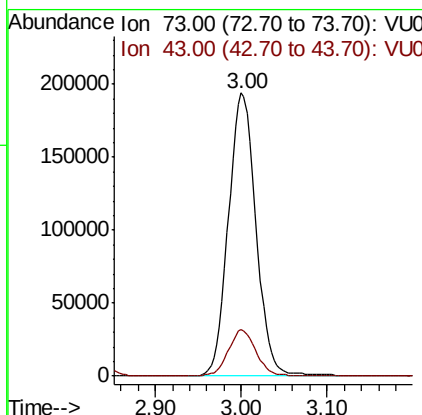
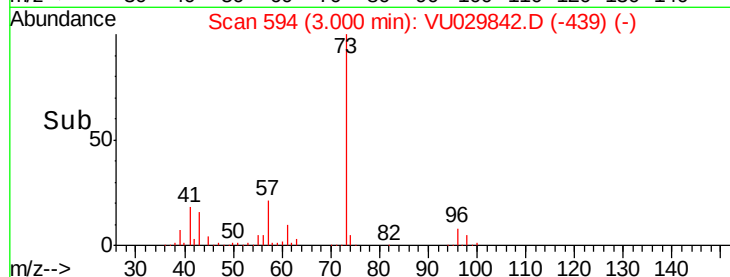
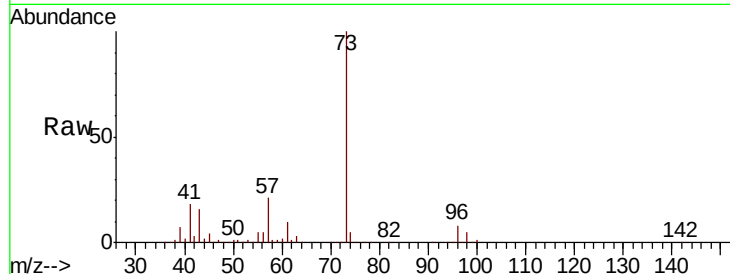
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
73	100		
43	16.1	13.1	19.7

Manual Integrations
APPROVED

MMDadoda

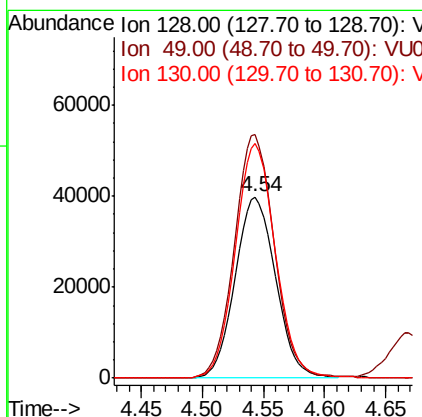
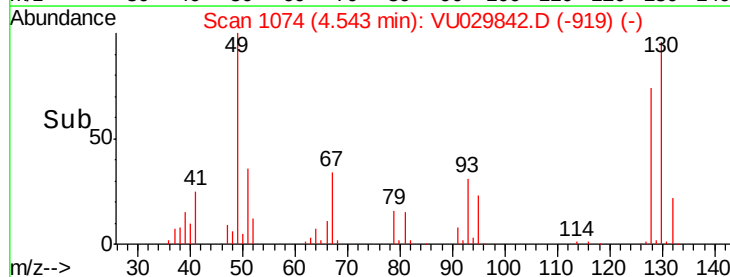
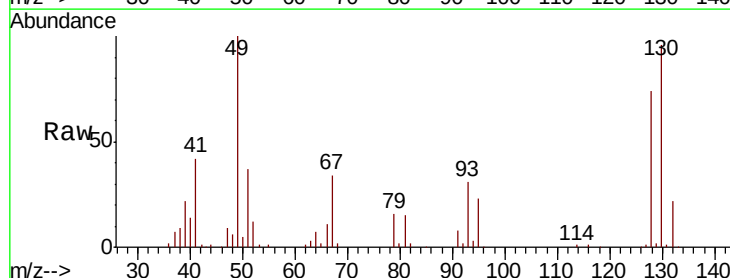
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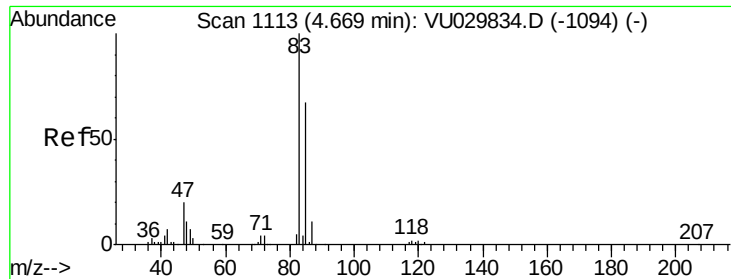


#26

Bromochloromethane
Concen: 10.269 ug/l
RT: 4.54 min Scan# 1074
Delta R.T. -0.00 min
Lab File: VU029842.D
Acq: 06 Mar 2019 16:30

Tgt Ion	Ratio	Lower	Upper
128	100		
49	132.1	0.0	270.6
130	126.9	104.2	156.4





#27
Chloroform
Concen: 10.037 ug/l
RT: 4.67 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VU029842.D
Acq: 06 Mar 2019 16:30

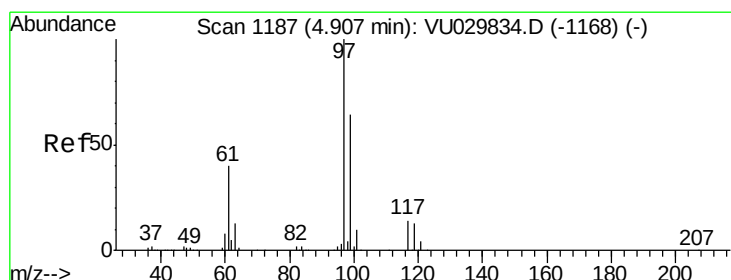
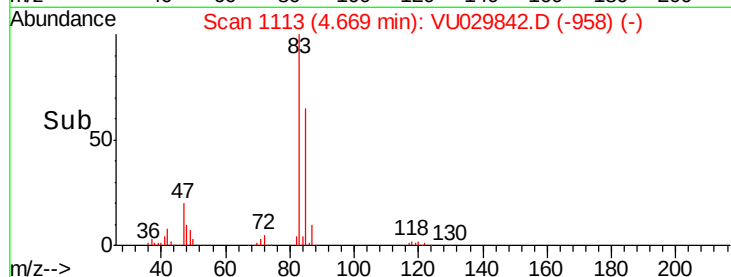
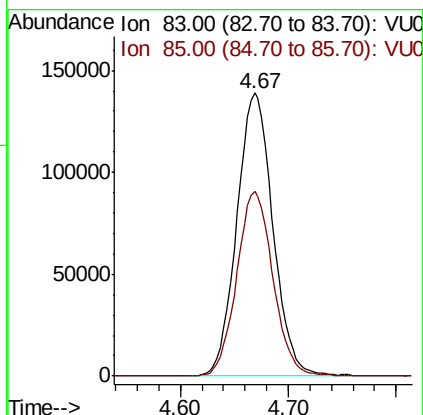
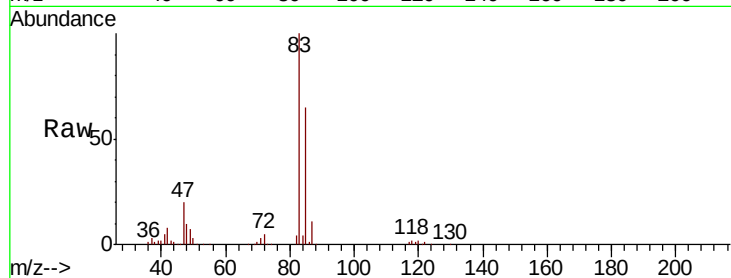
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	323528		
85	65.3	0.0	133.2	

Manual Integrations
APPROVED

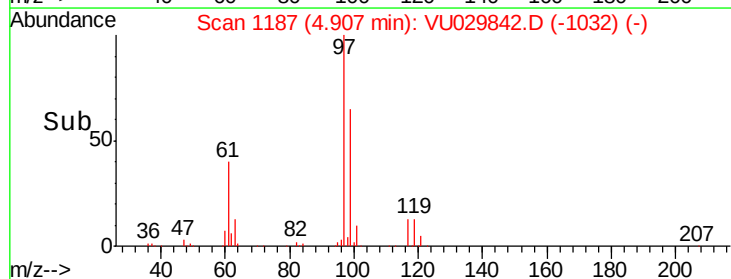
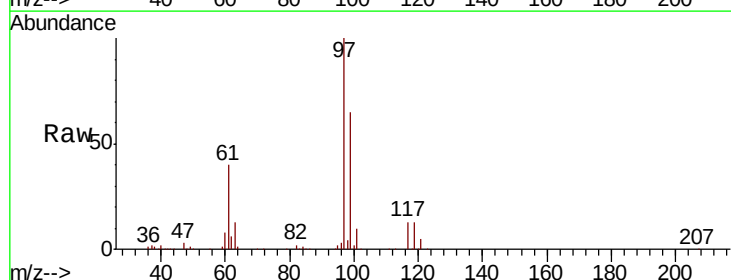
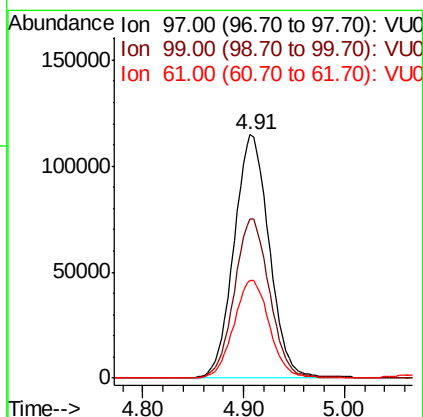
MMDadoda

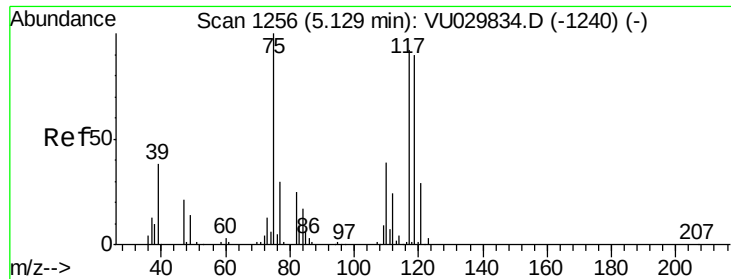
3/11/2019 4:50:46 PM



#28
1,1,1-Trichloroethane
Concen: 10.173 ug/l
RT: 4.91 min Scan# 1187
Delta R.T. -0.00 min
Lab File: VU029842.D
Acq: 06 Mar 2019 16:30

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	278031		
99	65.4	31.9	95.9	
61	40.7	20.4	61.3	





#29
 1,1-Dichloropropene
 Concen: 10.145 ug/l
 RT: 5.13 min Scan# 1256
 Delta R.T. -0.00 min
 Lab File: VU029842.D
 Acq: 06 Mar 2019 16:30

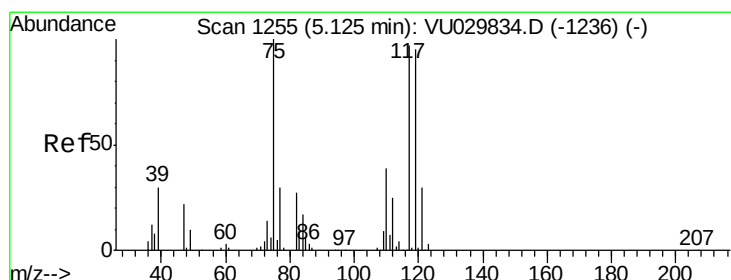
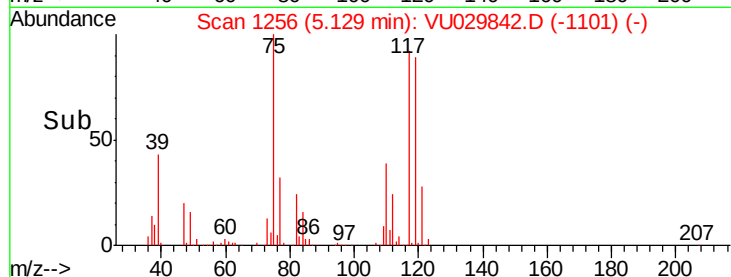
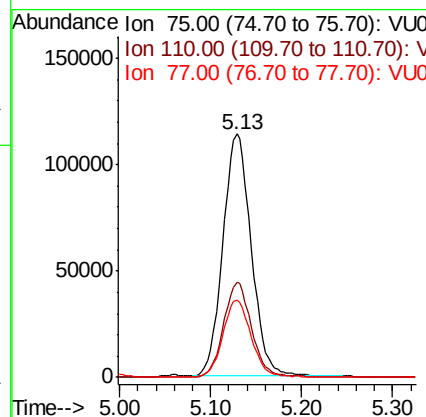
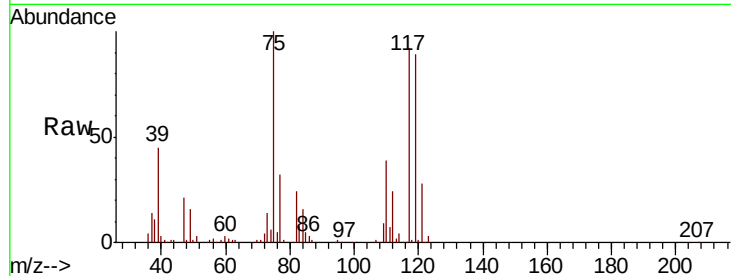
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	246381		
110	39.1	19.1	57.5	
77	31.5	23.9	35.9	

Manual Integrations
 APPROVED

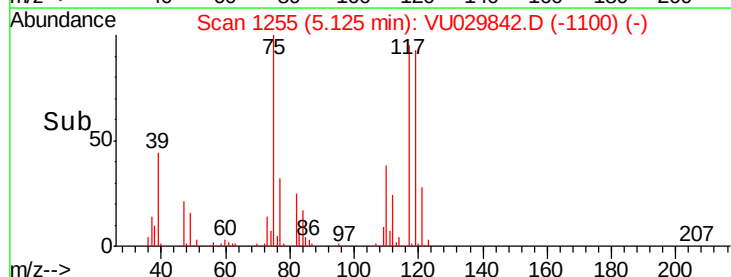
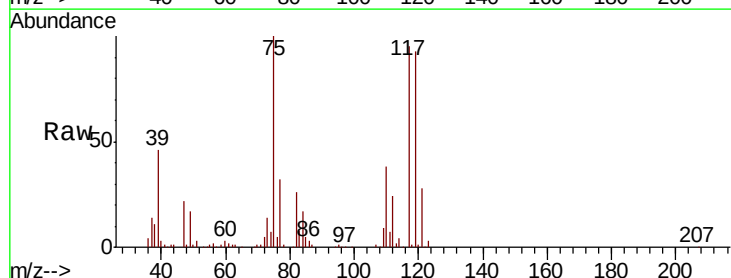
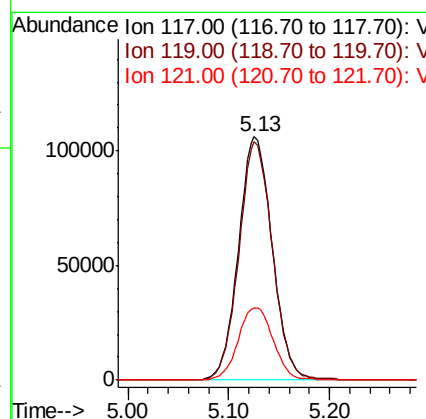
MMDadoda

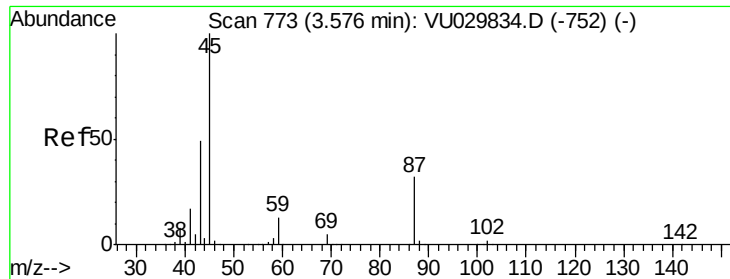
3/11/2019 4:50:46 PM



#30
 Carbon Tetrachloride
 Concen: 10.346 ug/l
 RT: 5.13 min Scan# 1255
 Delta R.T. -0.00 min
 Lab File: VU029842.D
 Acq: 06 Mar 2019 16:30

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	246683		
119	97.8	78.4	117.6	
121	29.7	25.0	37.4	





#31

Isopropyl Ether

Concen: 10.289 ug/l

RT: 3.58 min Scan# 773

Delta R.T. -0.00 min

Lab File: VU029842.D

Acq: 06 Mar 2019 16:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 45 Resp: 451728

Ion Ratio Lower Upper

45 100

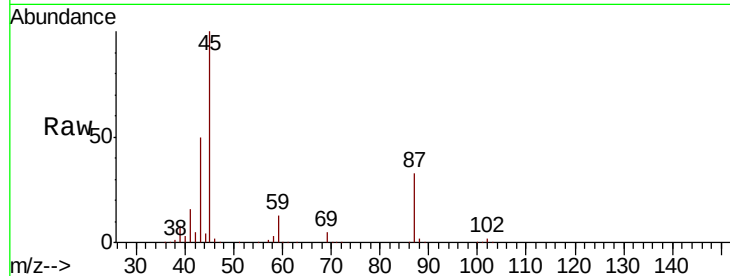
43 48.6 24.3 72.9

Manual Integrations

APPROVED

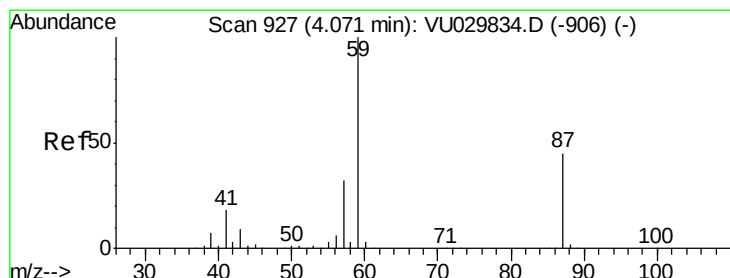
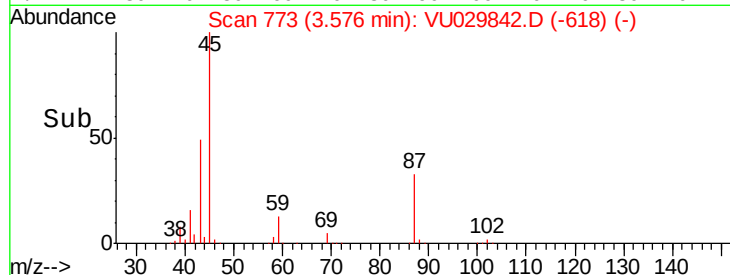
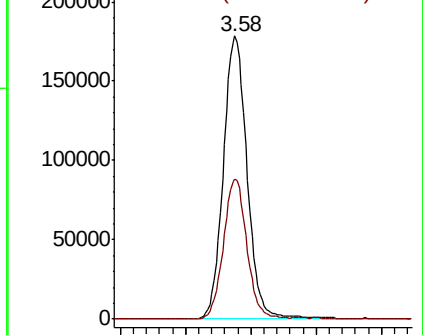
MMDadoda

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Abundance Ion 45.00 (44.70 to 45.70): VU0

Ion 43.00 (42.70 to 43.70): VU0



#32

Ethyl-t-butyl ether

Concen: 10.401 ug/l

RT: 4.07 min Scan# 928

Delta R.T. 0.00 min

Lab File: VU029842.D

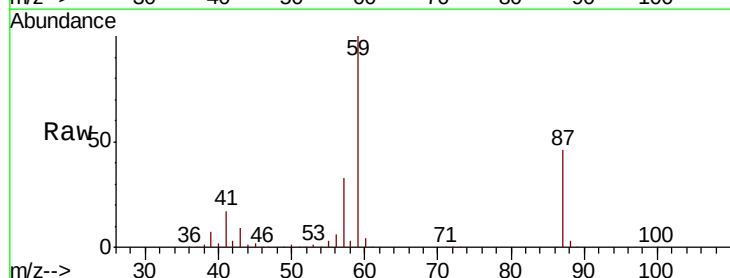
Acq: 06 Mar 2019 16:30

Tgt Ion: 59 Resp: 443876

Ion Ratio Lower Upper

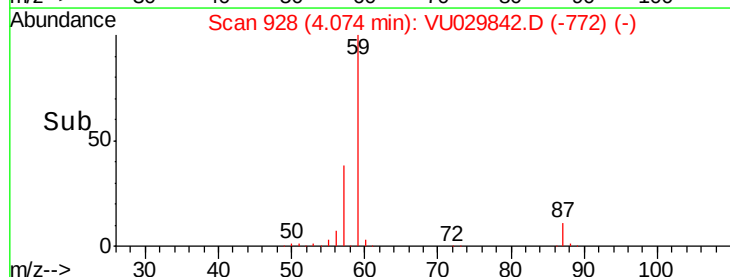
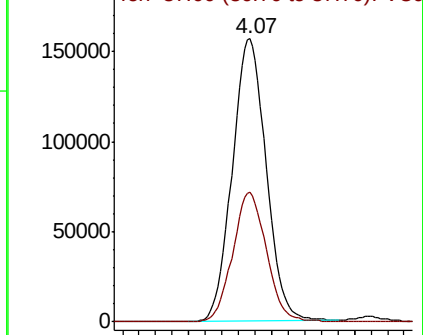
59 100

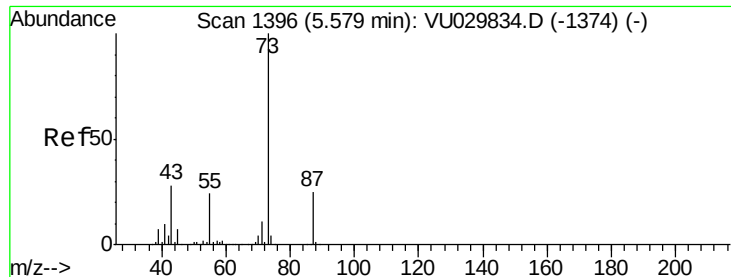
87 45.3 36.2 54.4



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 87.00 (86.70 to 87.70): VU0





#33
Tert-Amyl methyl ether
Concen: 10.714 ug/l
RT: 5.58 min Scan# 1396
Delta R.T. -0.00 min
Lab File: VU029842.D
Acq: 06 Mar 2019 16:30

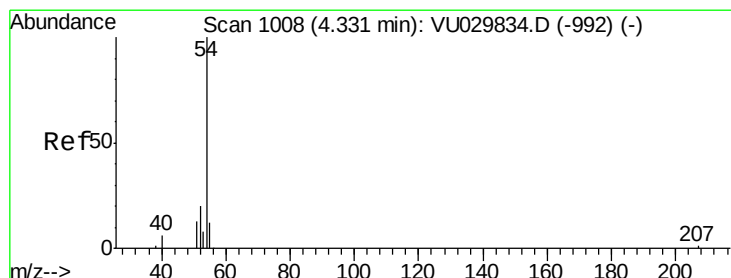
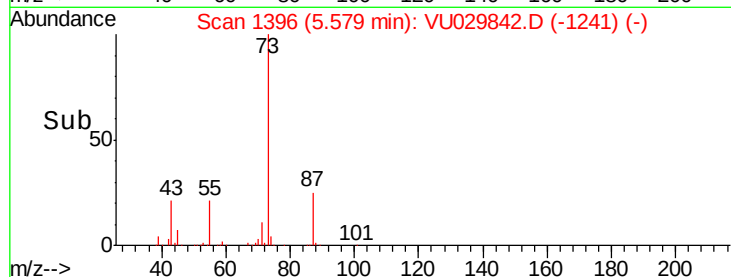
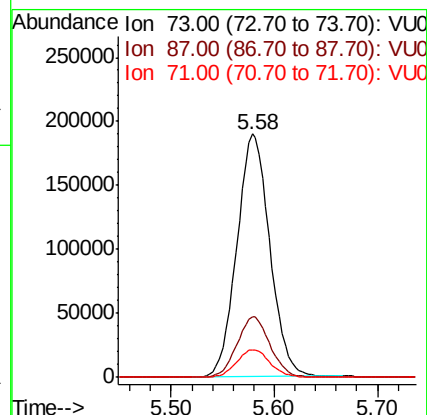
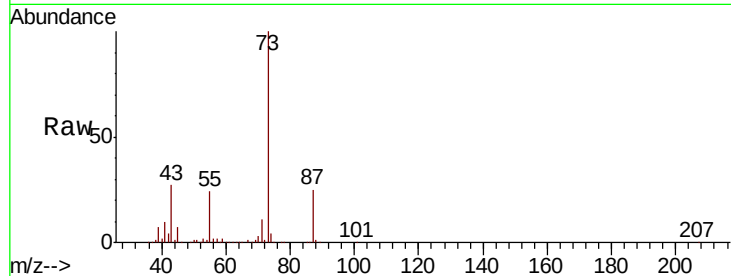
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
73	100		
87	25.1	19.7	29.5
71	11.4	9.4	14.2

Manual Integrations
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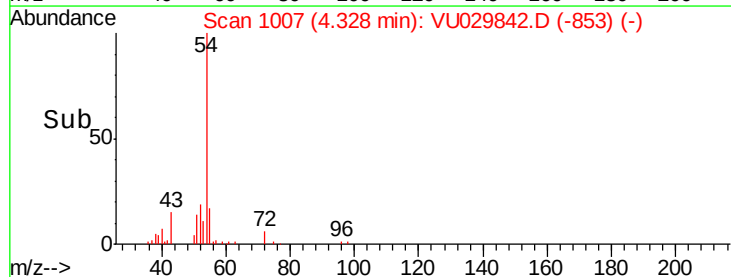
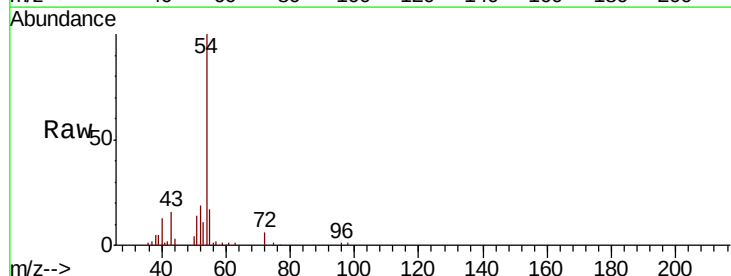
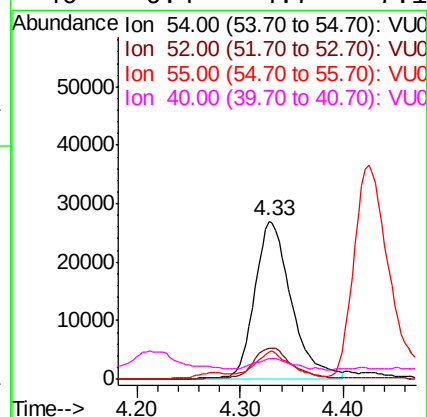
MMDadoda

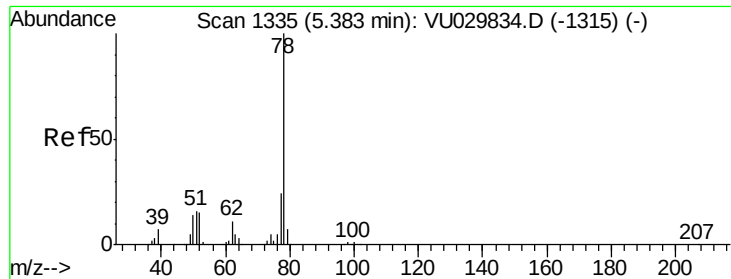
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#34
Propionitrile
Concen: 54.119 ug/l
RT: 4.33 min Scan# 1007
Delta R.T. -0.00 min
Lab File: VU029842.D
Acq: 06 Mar 2019 16:30

Tgt Ion	Ratio	Lower	Upper
54	100		
52	21.3	16.1	24.1
55	14.2	11.2	16.8
40	6.4	4.7	7.1





#35

Benzene

Concen: 10.285 ug/l

RT: 5.38 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VU029842.D

Acq: 06 Mar 2019 16:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 78 Resp: 735812

Ion Ratio Lower Upper

78 100

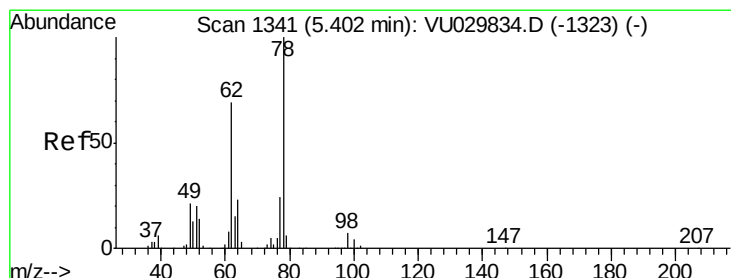
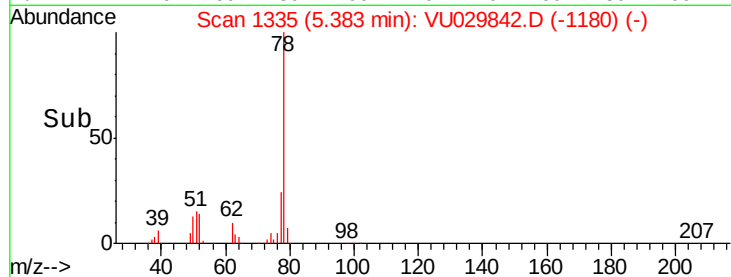
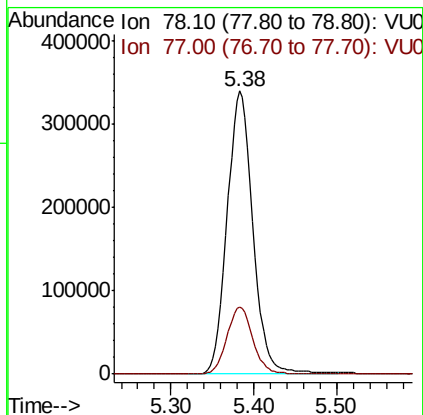
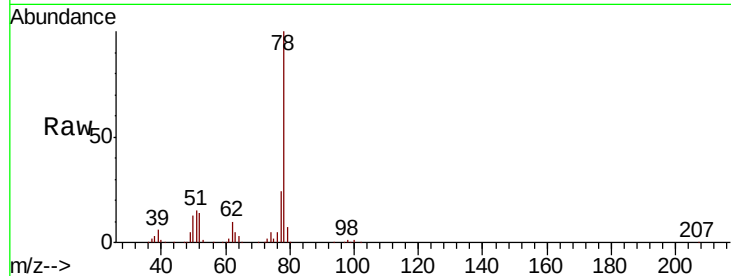
77 23.6 19.2 28.8

Manual Integrations

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#36

1,2-Dichloroethane

Concen: 10.030 ug/l

RT: 5.40 min Scan# 1341

Delta R.T. -0.00 min

Lab File: VU029842.D

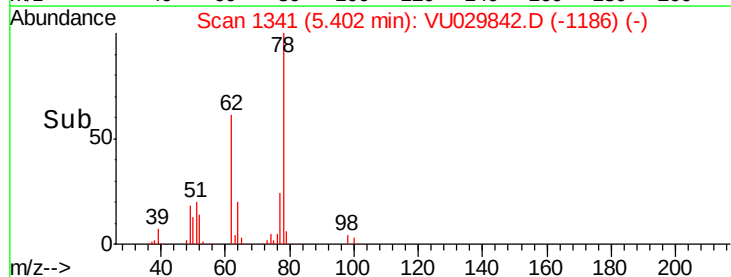
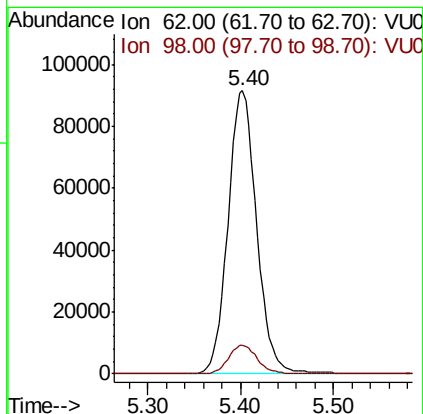
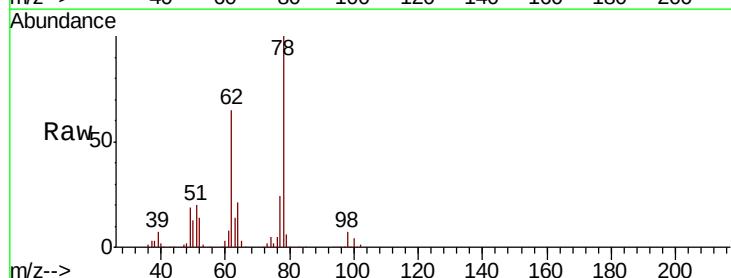
Acq: 06 Mar 2019 16:30

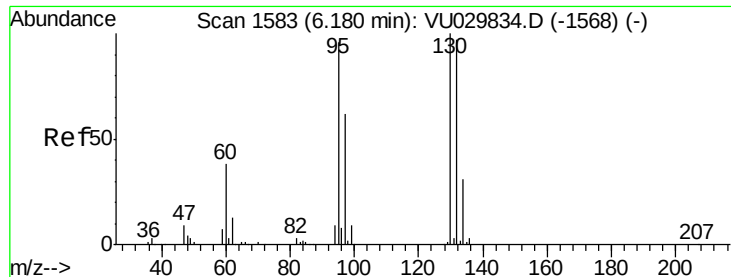
Tgt Ion: 62 Resp: 195999

Ion Ratio Lower Upper

62 100

98 10.2 8.2 12.2





#37

Trichloroethene

Concen: 10.055 ug/l

RT: 6.18 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VU029842.D

Acq: 06 Mar 2019 16:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 130 Resp: 210042

Ion Ratio Lower Upper

130 100

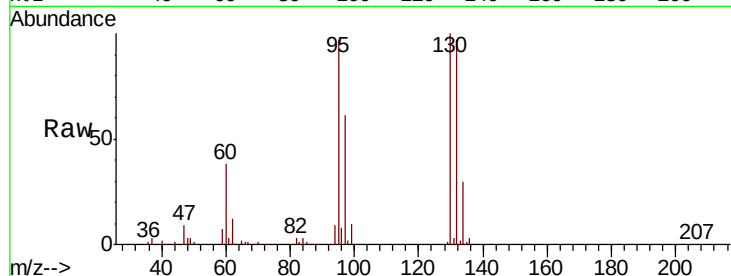
95 96.7 76.6 114.8

Manual Integrations

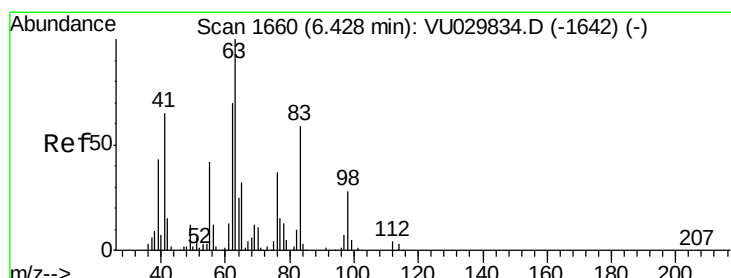
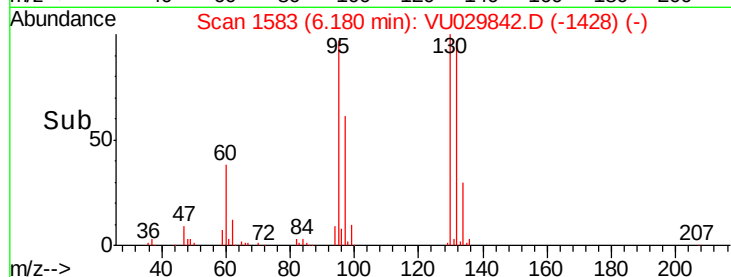
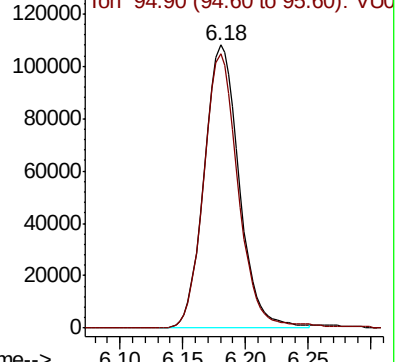
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Abundance Ion 129.90 (129.60 to 130.60): VU029834.D (-1568) (-)



#38

1,2-Dichloropropane

Concen: 10.318 ug/l

RT: 6.43 min Scan# 1660

Delta R.T. -0.00 min

Lab File: VU029842.D

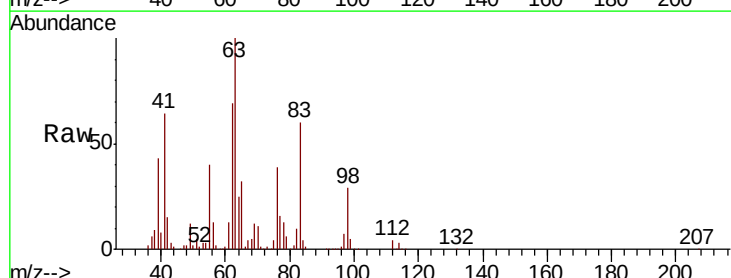
Acq: 06 Mar 2019 16:30

Tgt Ion: 63 Resp: 186860

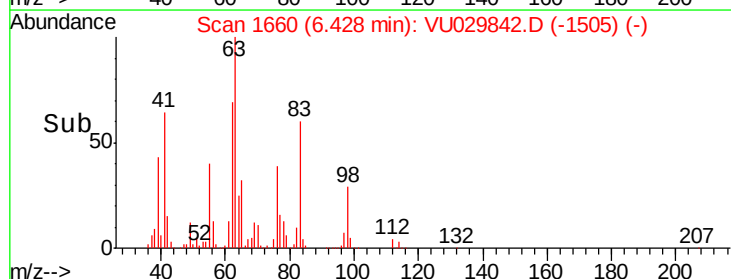
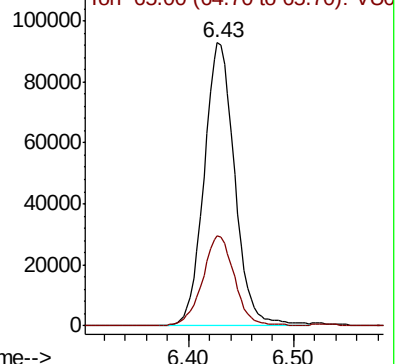
Ion Ratio Lower Upper

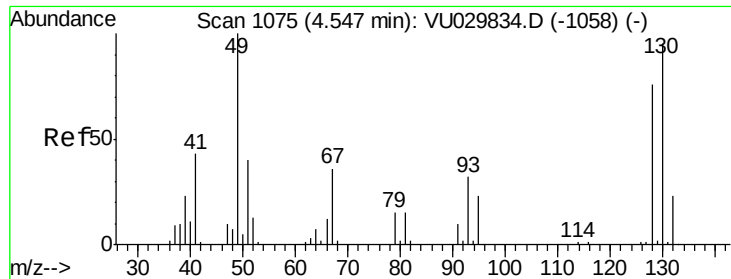
63 100

65 31.6 25.4 38.2



Abundance Ion 63.00 (62.70 to 63.70): VU029834.D (-1642) (-)





#39
Methacrylonitrile
Concen: 10.367 ug/l
RT: 4.55 min Scan# 1075
Delta R.T. -0.00 min
Lab File: VU029842.D
Acq: 06 Mar 2019 16:30

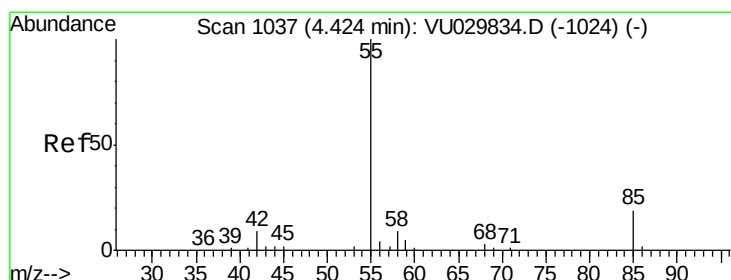
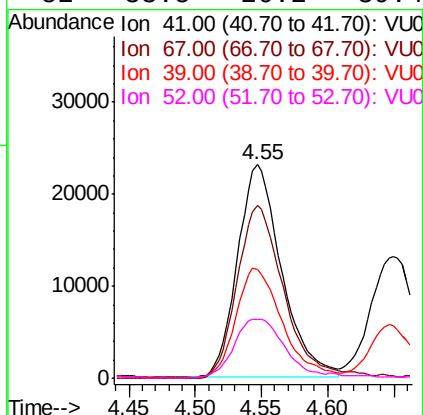
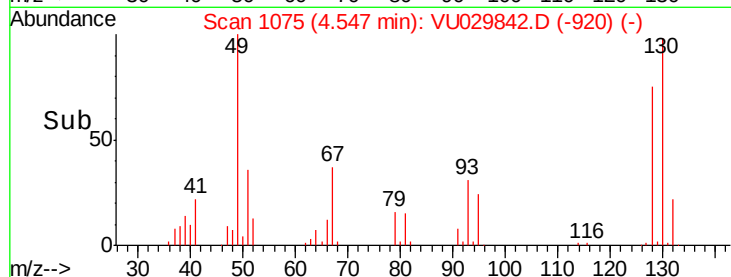
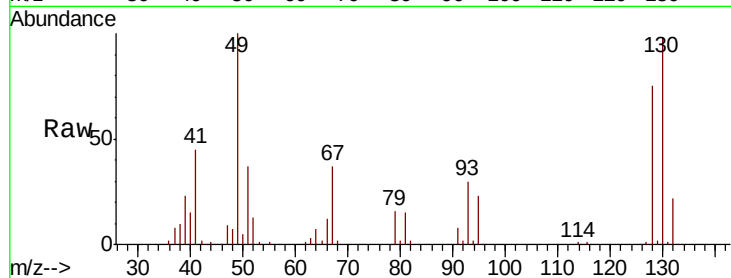
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
41	100		
67	86.2	68.4	102.6
39	54.7	42.6	63.8
52	33.5	26.2	39.4

Manual Integrations
APPROVED

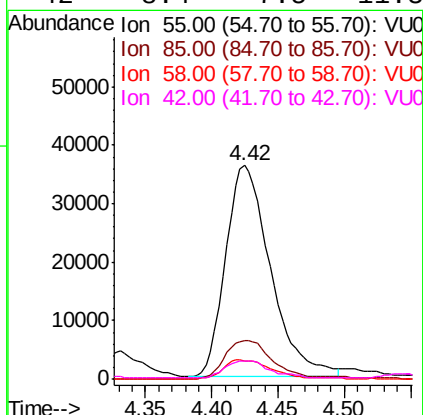
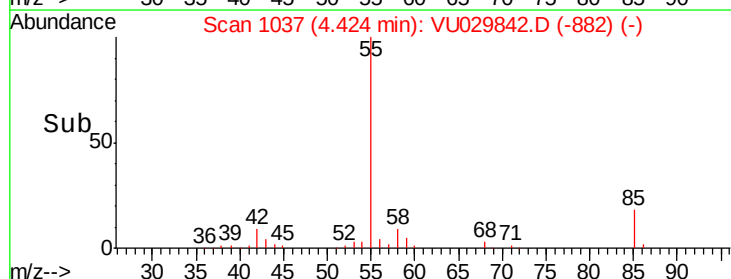
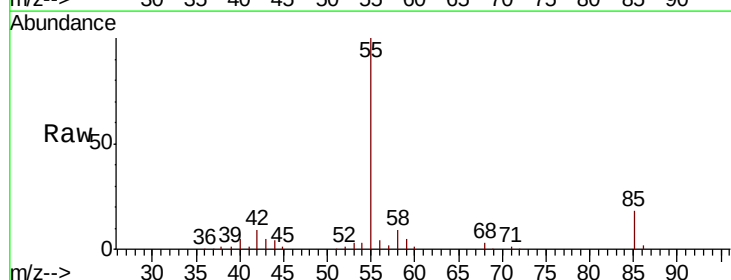
MMDadoda

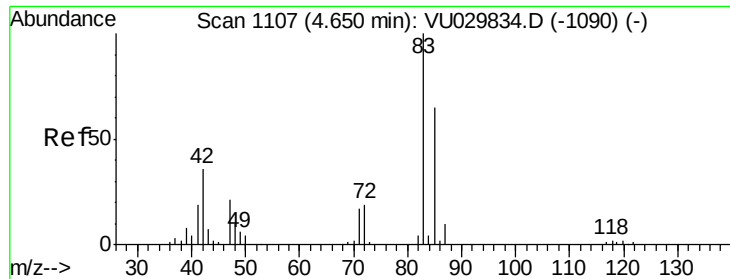
3/11/2019 4:50:46 PM



#40
Methyl acrylate
Concen: 10.383 ug/l
RT: 4.42 min Scan# 1037
Delta R.T. -0.00 min
Lab File: VU029842.D
Acq: 06 Mar 2019 16:30

Tgt Ion	Ratio	Lower	Upper
55	100		
85	19.4	15.2	22.8
58	9.5	7.6	11.4
42	8.4	7.5	11.3





#41

Tetrahydrofuran

Concen: 19.904 ug/l

RT: 4.65 min Scan# 1107

Delta R.T. -0.00 min

Lab File: VU029842.D

Acq: 06 Mar 2019 16:30

Instrument :

MSVOA_U

ClientSampleId :

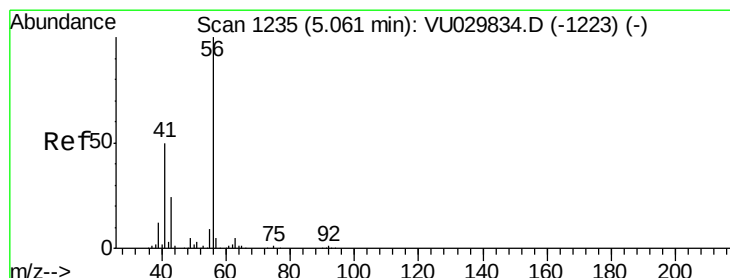
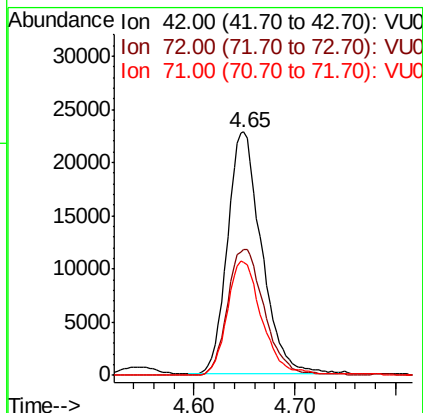
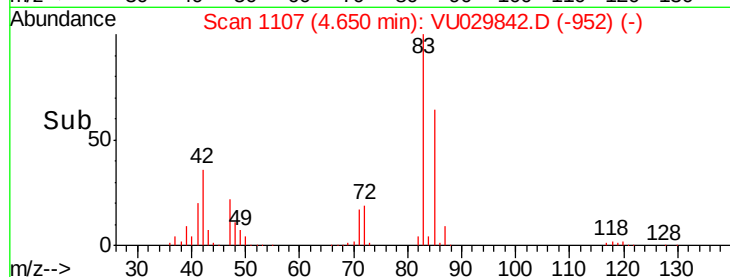
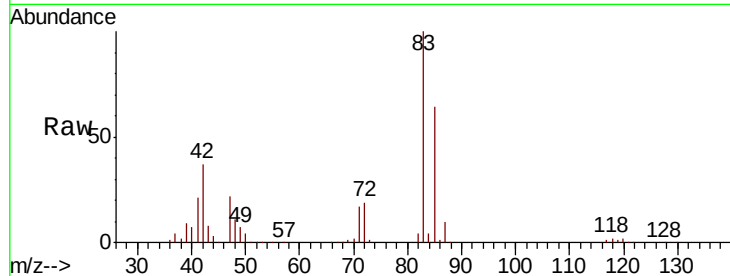
VSTDCCC010EC

Tgt Ion:	42	Resp:	53841
Ion Ratio	Lower	Upper	
42	100		
72	56.2	43.6	65.4
71	48.0	37.5	56.3

Manual Integrations
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#42

1-Chlorobutane

Concen: 10.453 ug/l

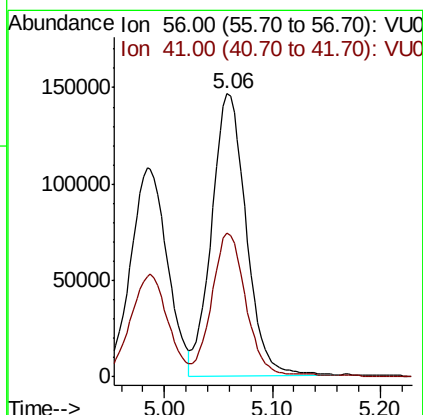
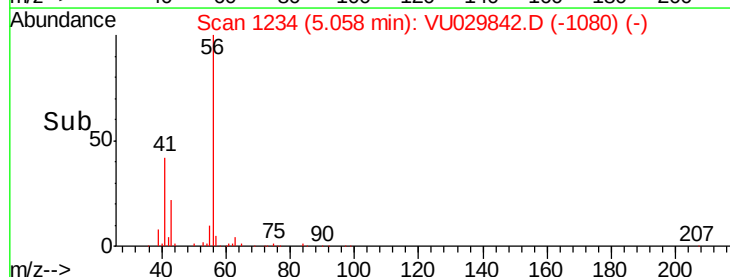
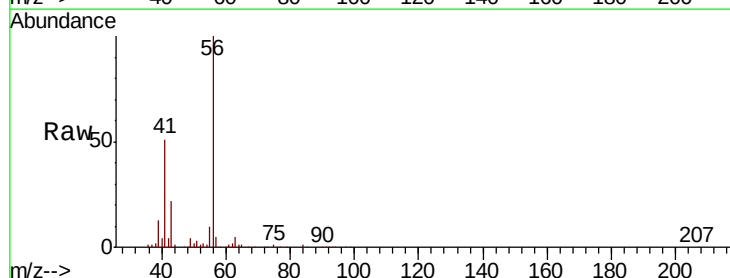
RT: 5.06 min Scan# 1234

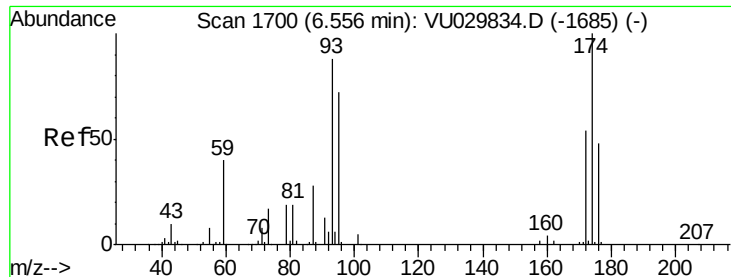
Delta R.T. -0.00 min

Lab File: VU029842.D

Acq: 06 Mar 2019 16:30

Tgt Ion:	56	Resp:	324331
Ion Ratio	Lower	Upper	
56	100		
41	51.3	25.0	75.0





#43

Dibromomethane

Concen: 10.355 ug/l

RT: 6.56 min Scan# 1700

Delta R.T. -0.00 min

Lab File: VU029842.D

Acq: 06 Mar 2019 16:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 93 Resp: 97192

Ion Ratio Lower Upper

93 100

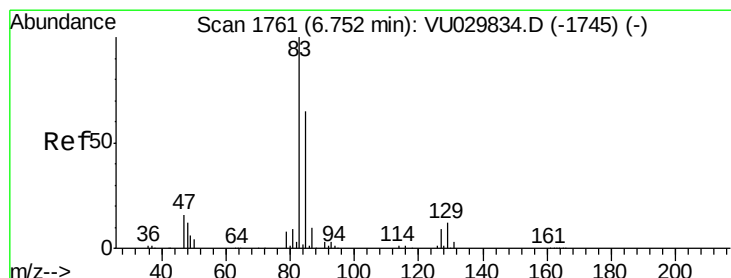
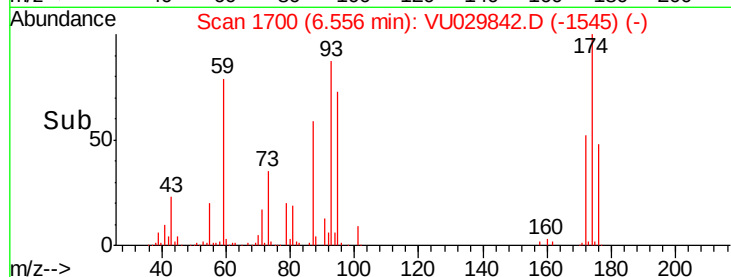
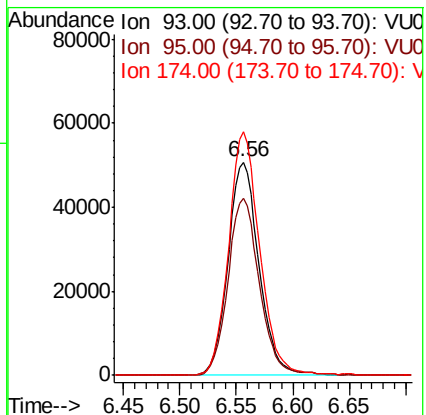
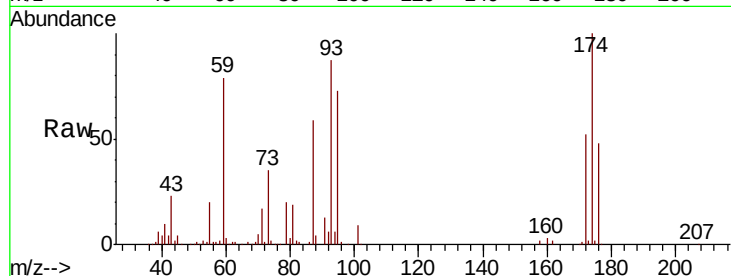
95 84.3 67.0 100.6

174 113.8 91.4 137.2

Manual Integrations
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#44

Bromodichloromethane

Concen: 10.354 ug/l

RT: 6.75 min Scan# 1761

Delta R.T. -0.00 min

Lab File: VU029842.D

Acq: 06 Mar 2019 16:30

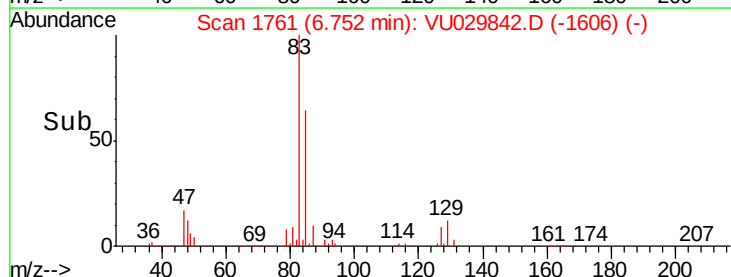
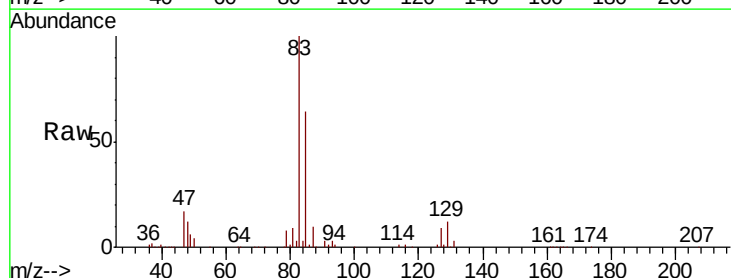
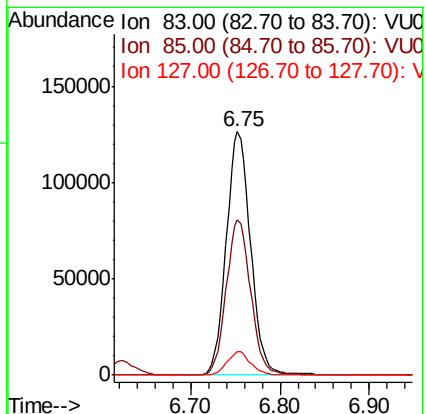
Tgt Ion: 83 Resp: 238668

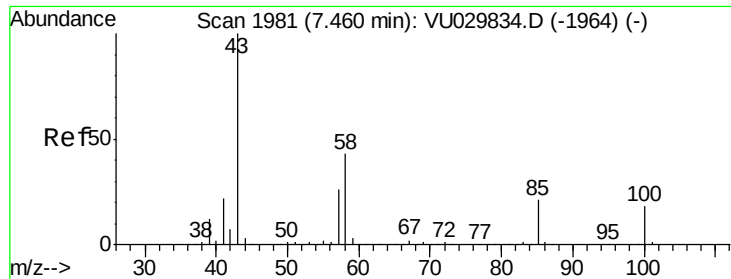
Ion Ratio Lower Upper

83 100

85 63.9 51.7 77.5

127 9.4 7.4 11.2





#45

4-Methyl-2-Pentanone

Concen: 54.007 ug/l

RT: 7.46 min Scan# 1981

Delta R.T. -0.00 min

Lab File: VU029842.D

Acq: 06 Mar 2019 16:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 43 Resp: 528671

Ion Ratio Lower Upper

43 100

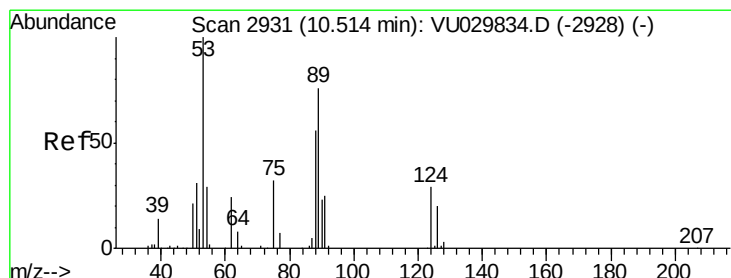
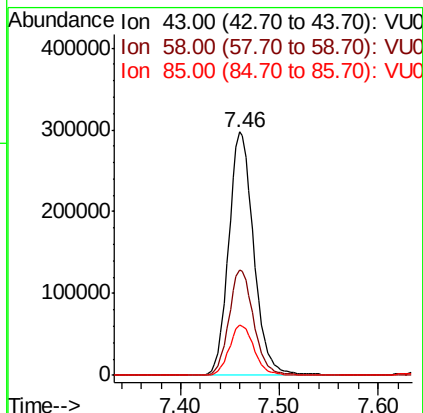
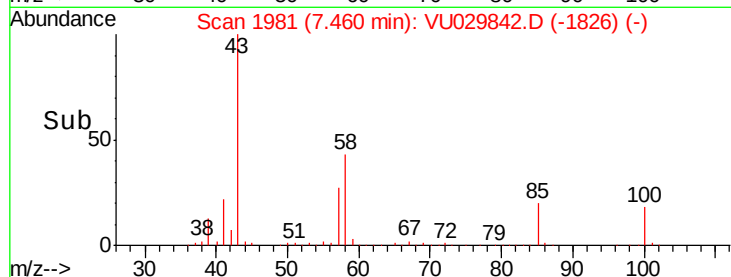
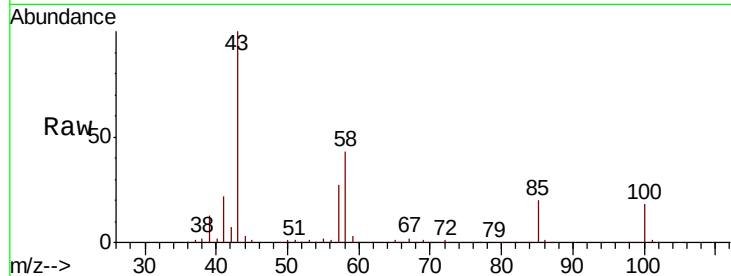
58 42.9 21.6 65.0

85 20.5 16.5 24.7

Manual Integrations
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#46

t-1,4-Dichloro-2-butene

Concen: 22.532 ug/l m

RT: 10.51 min Scan# 2931

Delta R.T. -0.00 min

Lab File: VU029842.D

Acq: 06 Mar 2019 16:30

Tgt Ion: 75 Resp: 92213

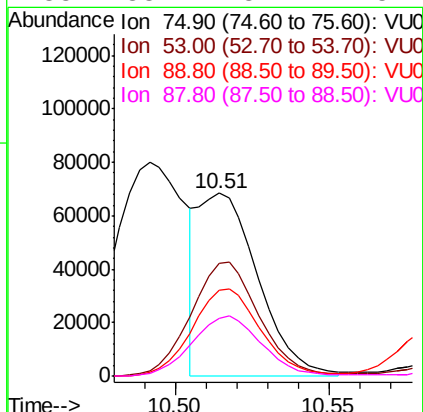
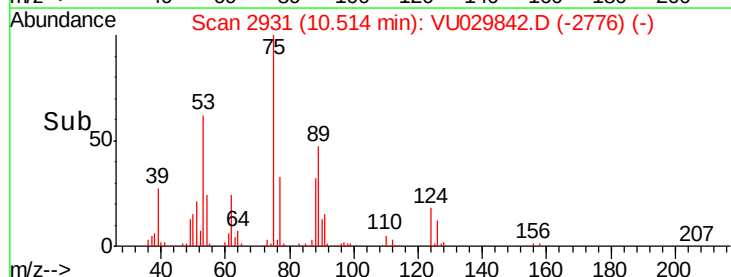
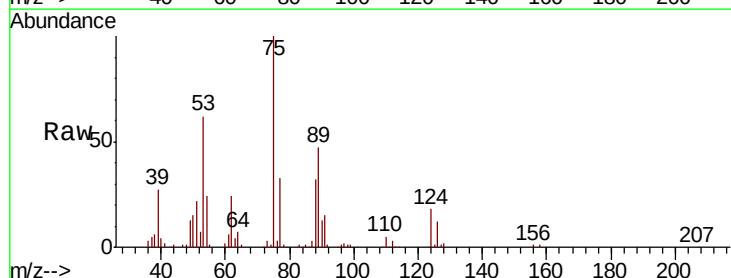
Ion Ratio Lower Upper

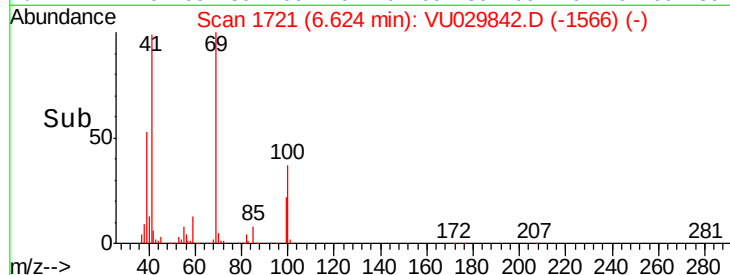
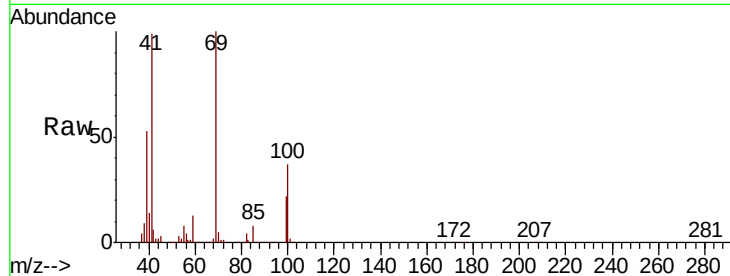
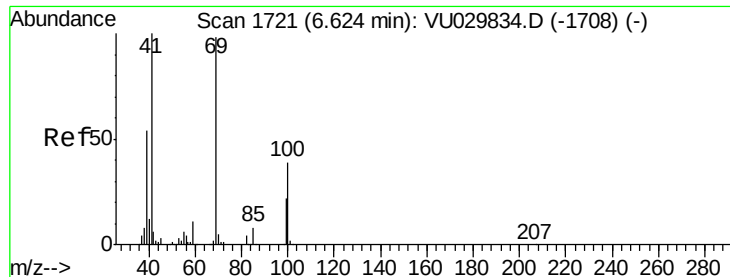
75 100

53 71.5 59.2 88.8

89 54.4 44.9 67.3

88 38.4 32.2 48.2





#47

Methyl methacrylate

Concen: 22.195 ug/l

RT: 6.62 min Scan# 1721

Delta R.T. -0.00 min

Lab File: VU029842.D

Acq: 06 Mar 2019 16:30

Tgt Ion	Ion	Ratio	Lower	Upper
69	100			
41	100.7	0.0	201.0	
39	53.4	43.3	64.9	
100	38.1	31.5	47.3	

Instrument :

MSVOA_U

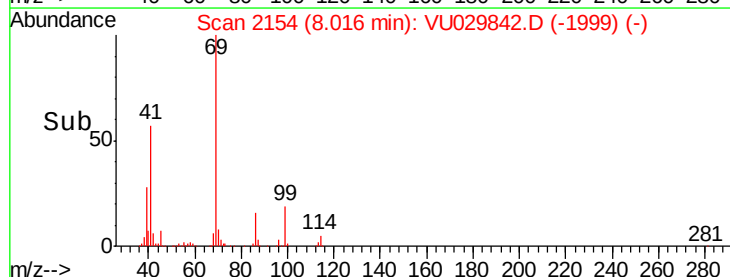
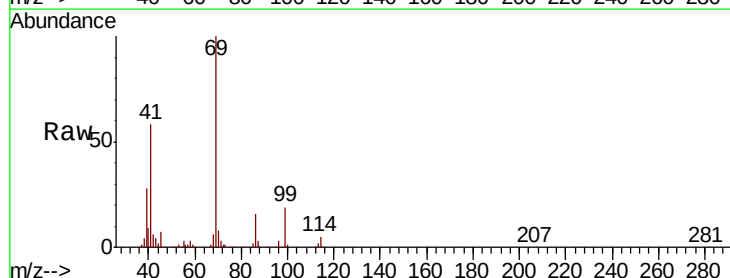
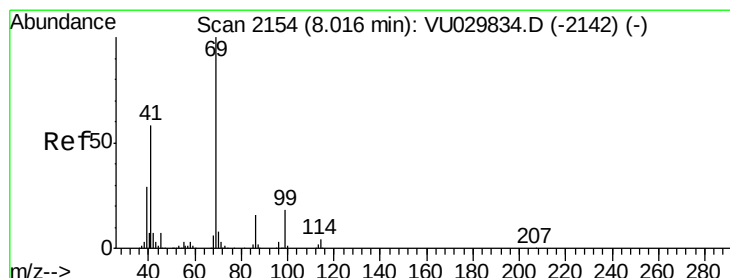
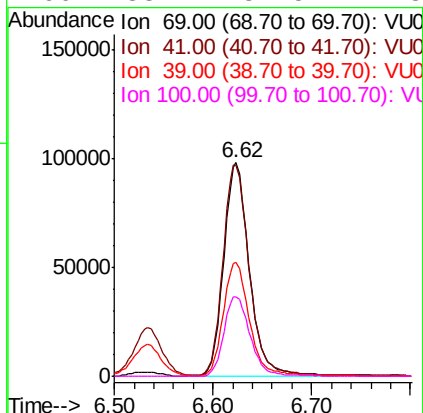
ClientSampleId :

VSTDCCC010EC

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#48

Ethyl methacrylate

Concen: 11.668 ug/l

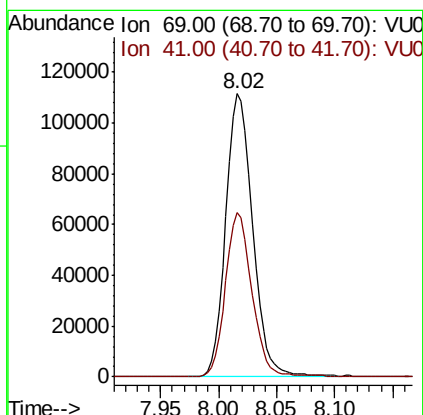
RT: 8.02 min Scan# 2154

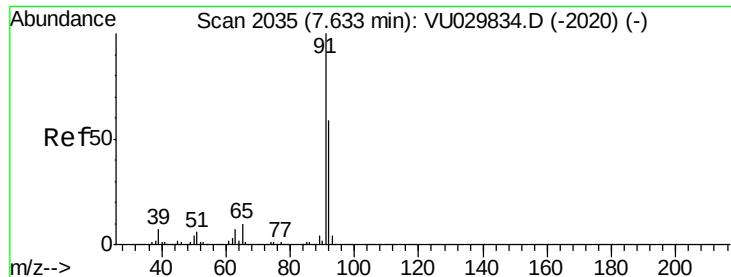
Delta R.T. -0.00 min

Lab File: VU029842.D

Acq: 06 Mar 2019 16:30

Tgt Ion	Ion	Ratio	Lower	Upper
69	100			
41	57.4	29.0	87.1	





#49

Toluene

Concen: 10.725 ug/l

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU029842.D

Acq: 06 Mar 2019 16:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 92 Resp: 471211

Ion Ratio Lower Upper

92 100

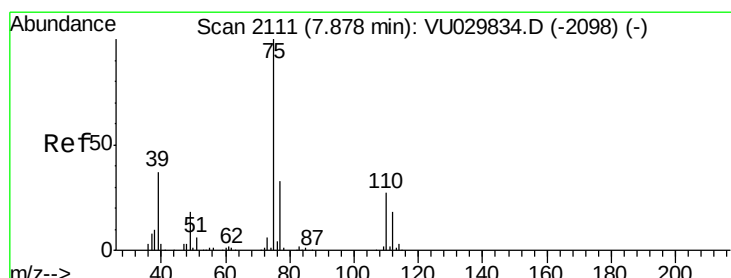
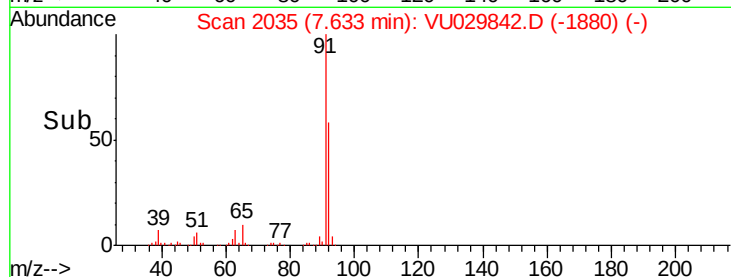
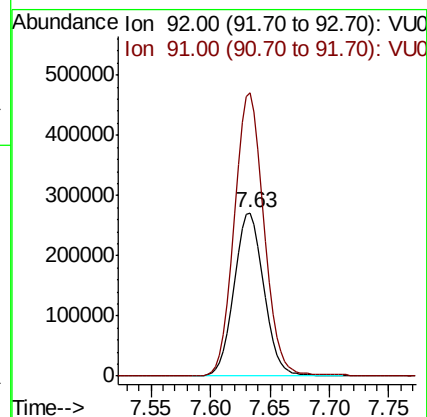
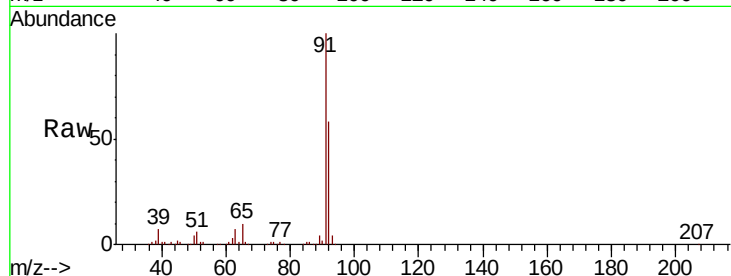
91 173.5 137.8 206.8

Manual Integrations

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#50

t-1,3-Dichloropropene

Concen: 10.791 ug/l

RT: 7.88 min Scan# 2111

Delta R.T. -0.00 min

Lab File: VU029842.D

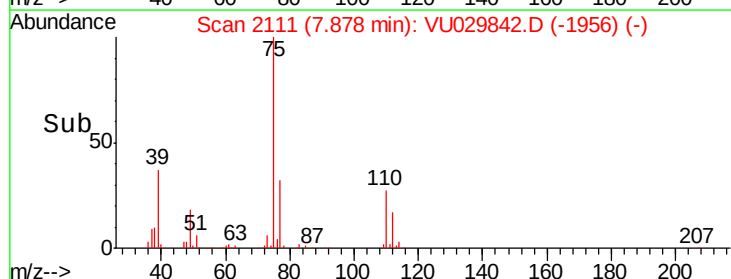
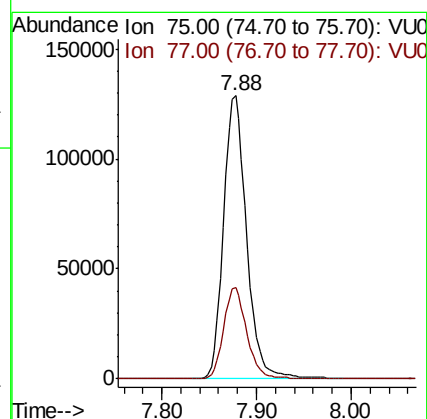
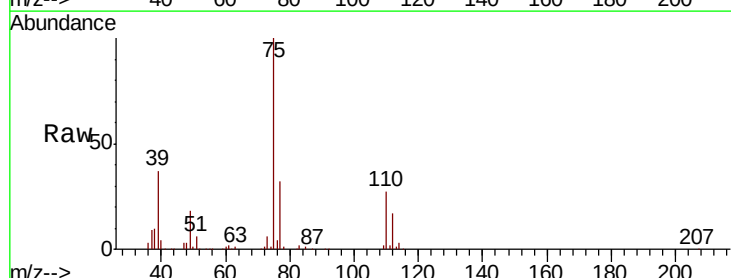
Acq: 06 Mar 2019 16:30

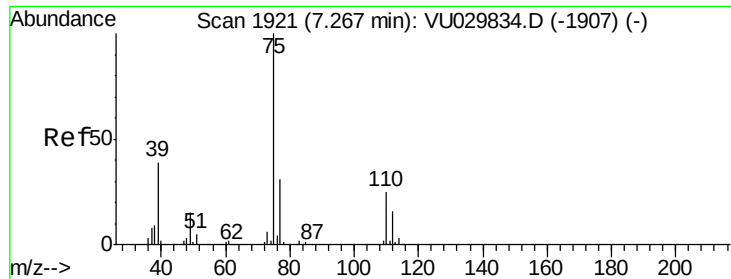
Tgt Ion: 75 Resp: 217997

Ion Ratio Lower Upper

75 100

77 32.2 26.4 39.6





#51
 cis-1,3-Dichloropropene
 Concen: 10.722 ug/l
 RT: 7.27 min Scan# 1921
 Delta R.T. -0.00 min
 Lab File: VU029842.D
 Acq: 06 Mar 2019 16:30

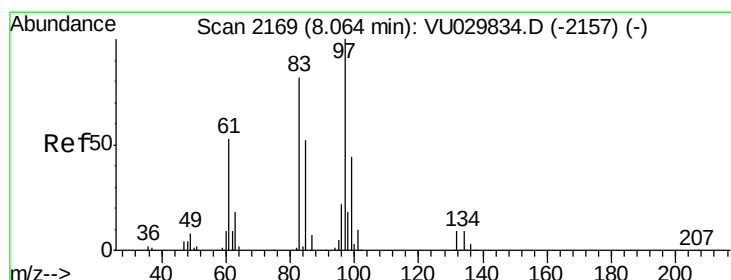
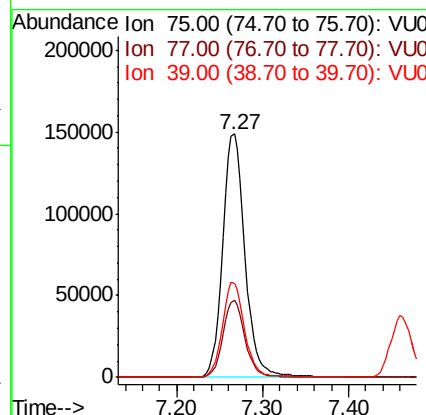
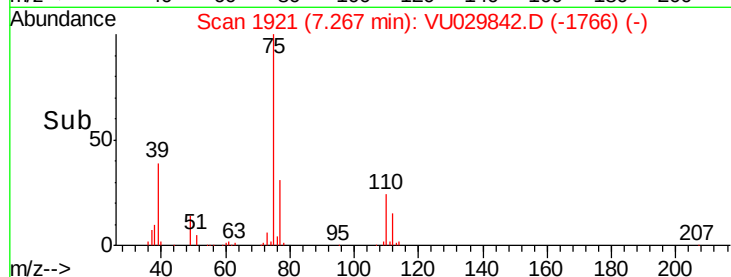
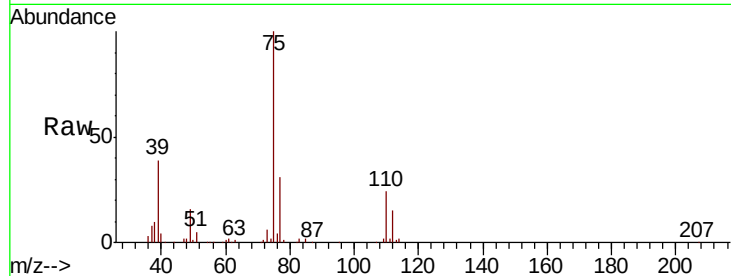
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.5	24.9	37.3
39	38.8	30.8	46.2

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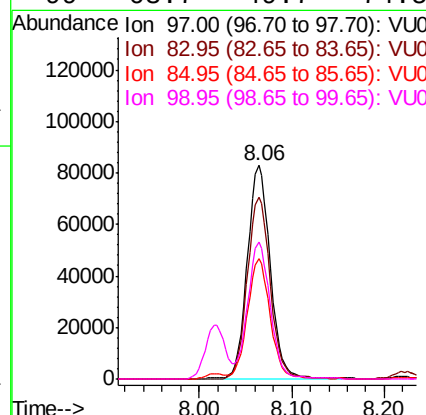
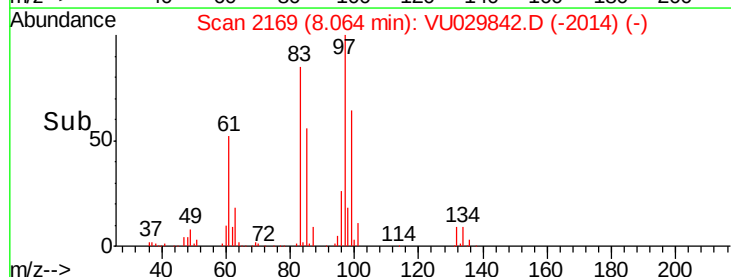
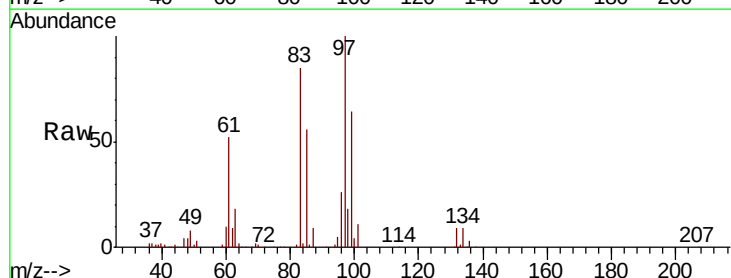
MMDadoda

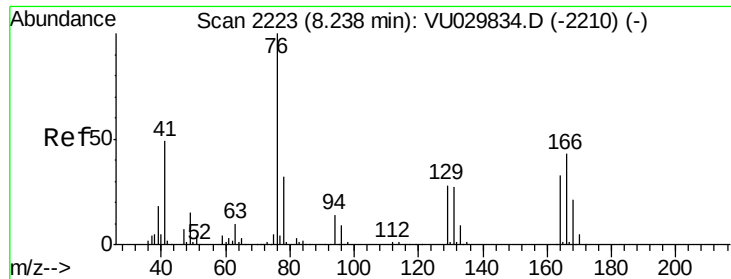
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#52
 1,1,2-Trichloroethane
 Concen: 10.267 ug/l
 RT: 8.06 min Scan# 2169
 Delta R.T. -0.00 min
 Lab File: VU029842.D
 Acq: 06 Mar 2019 16:30

Tgt Ion	Ratio	Lower	Upper
97	100		
83	84.8	65.9	98.9
85	56.0	43.0	64.6
99	63.7	49.7	74.5





#53
 1,3-Dichloropropane
 Concen: 10.379 ug/l
 RT: 8.24 min Scan# 2224
 Delta R.T. 0.00 min
 Lab File: VU029842.D
 Acq: 06 Mar 2019 16:30

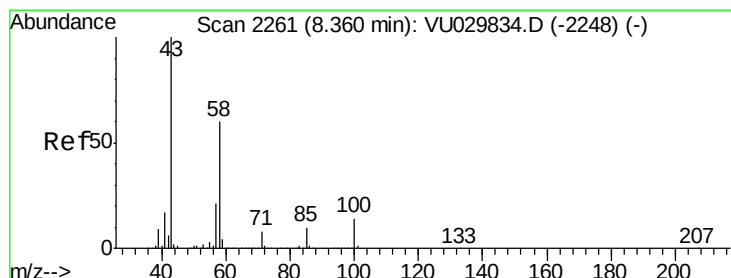
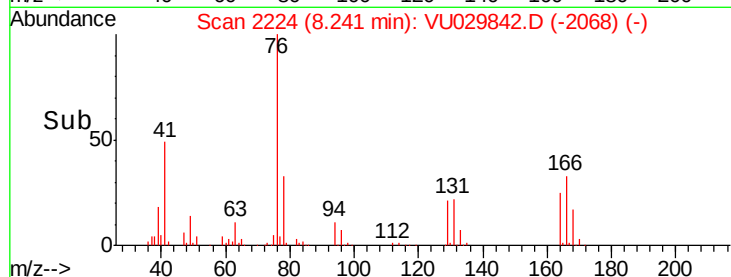
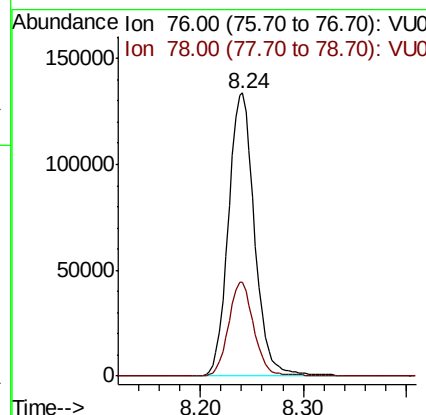
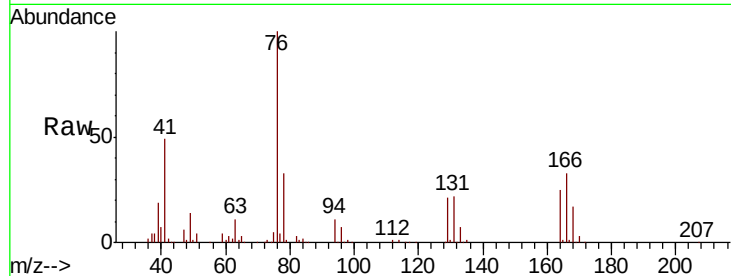
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 76 Resp: 236506
 Ion Ratio Lower Upper
 76 100
 78 32.4 25.7 38.5

Manual Integrations
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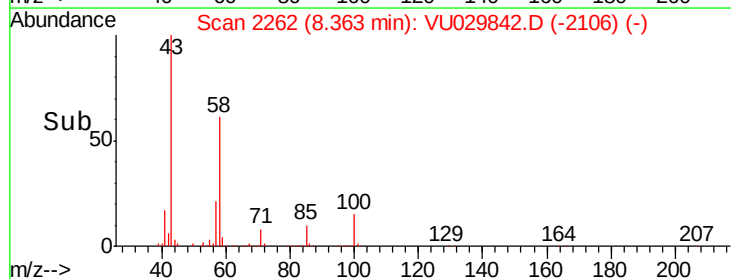
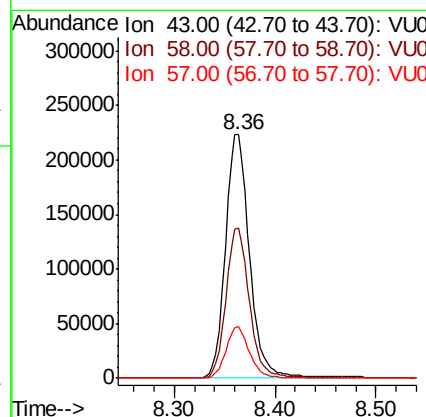
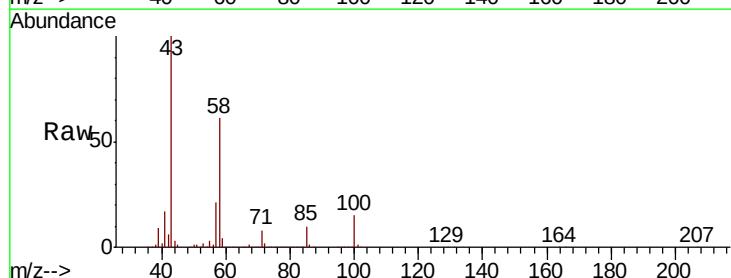
MMDadoda

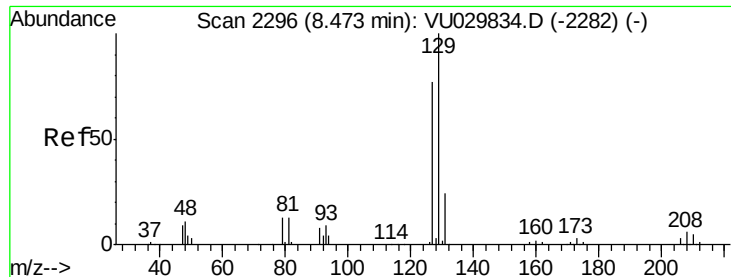
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#54
 2-Hexanone
 Concen: 54.638 ug/l
 RT: 8.36 min Scan# 2262
 Delta R.T. 0.00 min
 Lab File: VU029842.D
 Acq: 06 Mar 2019 16:30

Tgt Ion: 43 Resp: 371456
 Ion Ratio Lower Upper
 43 100
 58 60.0 39.6 79.6
 57 20.6 0.5 40.5





#55
Dibromochloromethane
Concen: 10.642 ug/l
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU029842.D
Acq: 06 Mar 2019 16:30

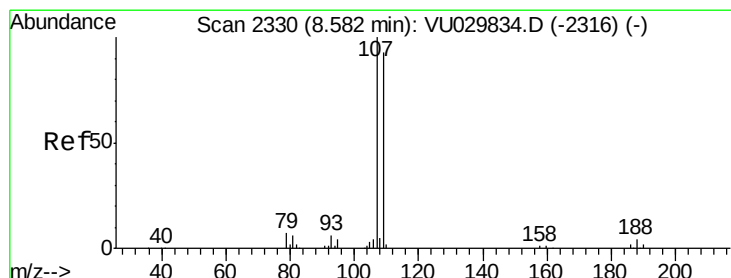
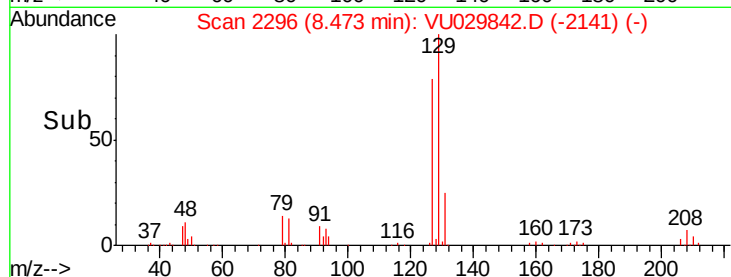
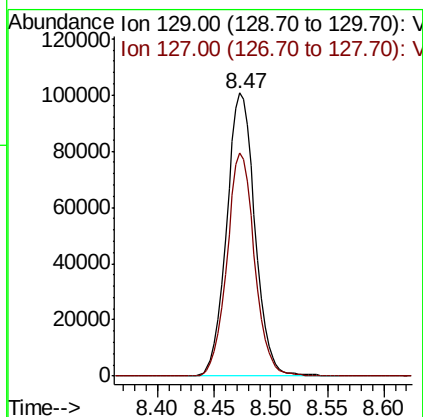
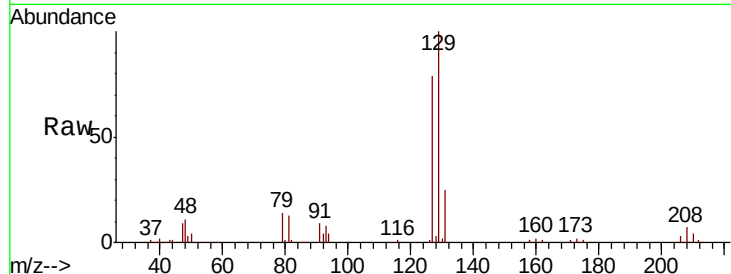
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tgt Ion:129 Resp: 175469
Ion Ratio Lower Upper
129 100
127 76.9 61.6 92.4

Manual Integrations
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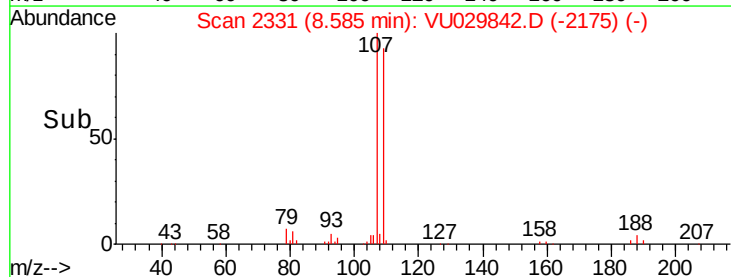
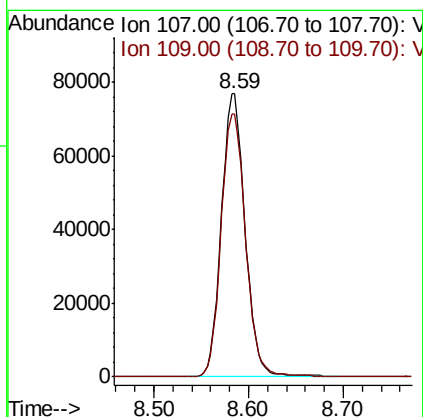
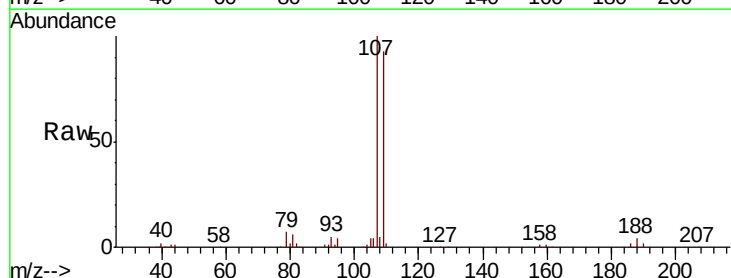
MMDadoda

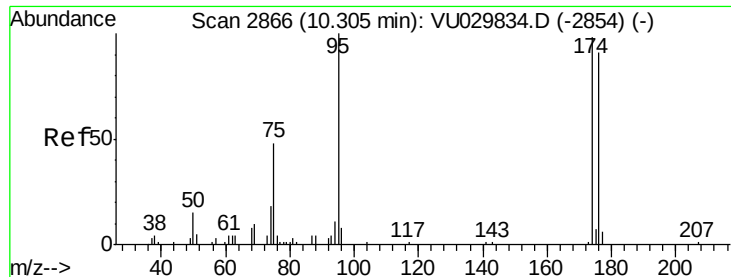
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#56
1,2-Dibromoethane
Concen: 10.187 ug/l
RT: 8.59 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VU029842.D
Acq: 06 Mar 2019 16:30

Tgt Ion:107 Resp: 134195
Ion Ratio Lower Upper
107 100
109 95.8 0.0 188.4





#57

4-Bromofluorobenzene

Concen: 10.187 ug/l

RT: 10.31 min Scan# 2866

Delta R.T. -0.00 min

Lab File: VU029842.D

Acq: 06 Mar 2019 16:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 95 Resp: 24950
Ion Ratio Lower Upper

95 100

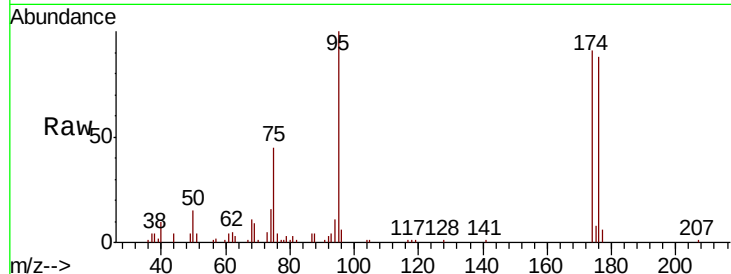
174 91.1 76.5 114.7

176 87.4 74.2 111.2

Manual Integrations
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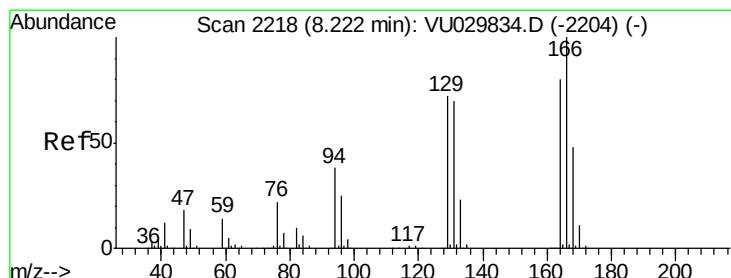
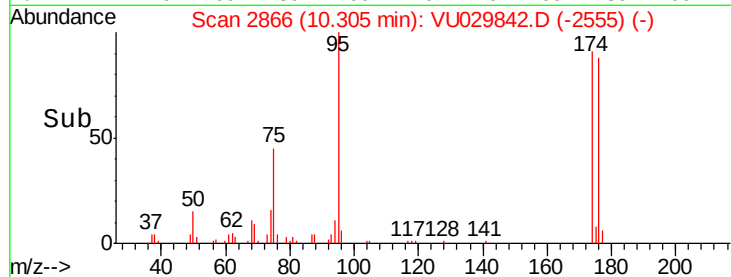
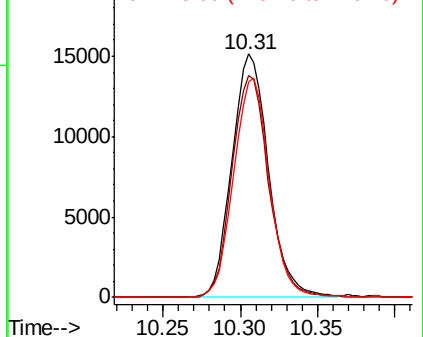


Abundance

Ion 95.00 (94.70 to 95.70): VU029842.D (-2555) (-)

Ion 174.00 (173.70 to 174.70): VU029842.D (-2555) (-)

Ion 176.00 (175.70 to 176.70): VU029842.D (-2555) (-)



#58

Tetrachloroethene

Concen: 10.119 ug/l

RT: 8.22 min Scan# 2218

Delta R.T. -0.00 min

Lab File: VU029842.D

Acq: 06 Mar 2019 16:30

Tgt Ion: 164 Resp: 215890
Ion Ratio Lower Upper

164 100

166 127.2 100.5 150.7

129 91.4 72.3 108.5

131 87.7 70.0 105.0

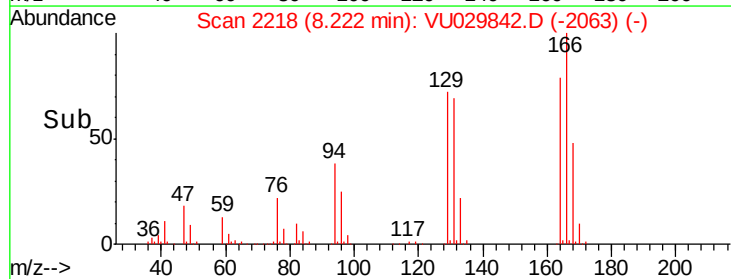
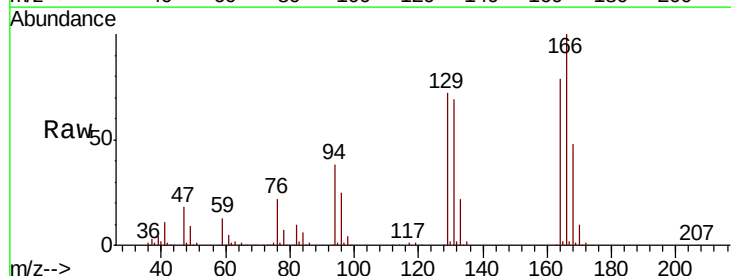
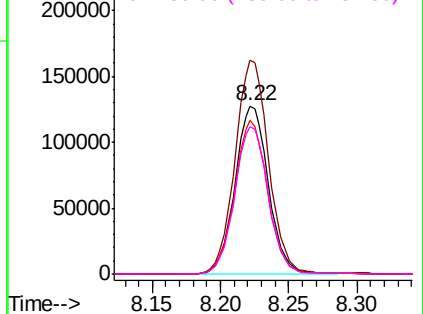
Abundance

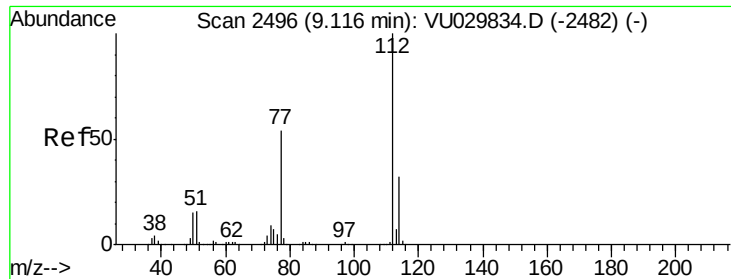
Ion 163.85 (163.55 to 164.55): VU029842.D (-2063) (-)

Ion 165.80 (165.50 to 166.50): VU029842.D (-2063) (-)

Ion 128.90 (128.60 to 129.60): VU029842.D (-2063) (-)

Ion 130.90 (130.60 to 131.60): VU029842.D (-2063) (-)





#59
Chlorobenzene
Concen: 10.528 ug/l
RT: 9.12 min Scan# 2496
Delta R.T. -0.00 min
Lab File: VU029842.D
Acq: 06 Mar 2019 16:30

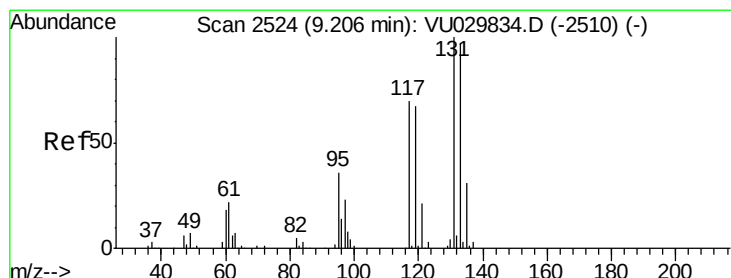
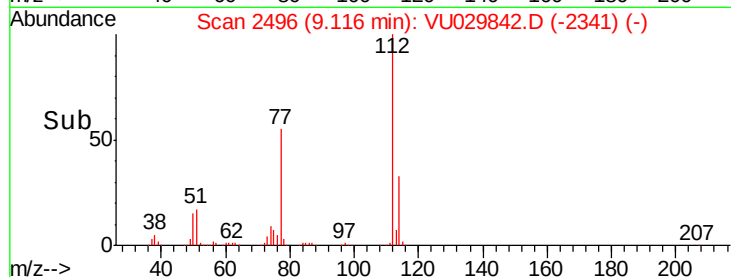
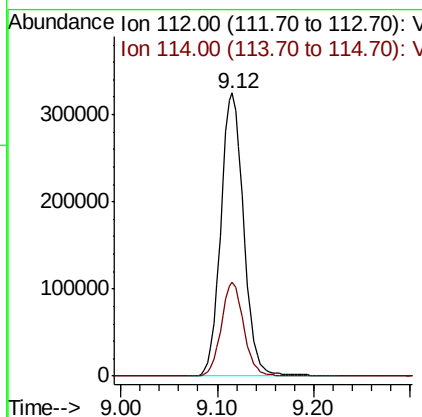
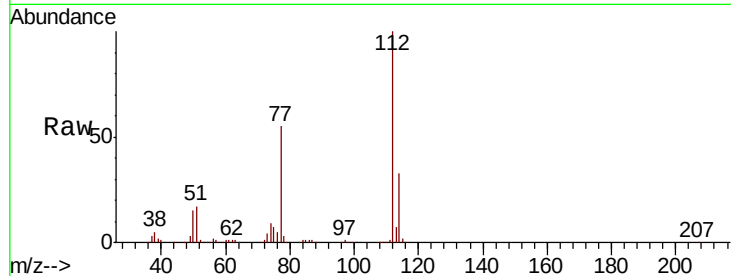
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
112	100		
114	33.2	25.4	38.2

Manual Integrations
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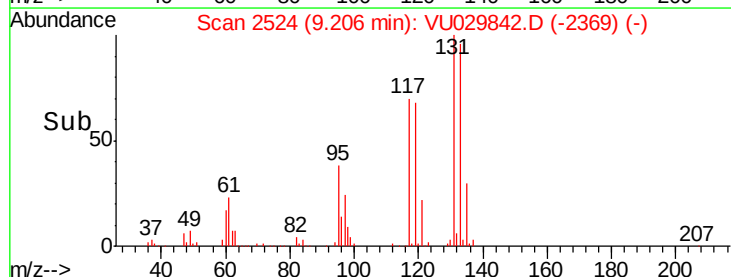
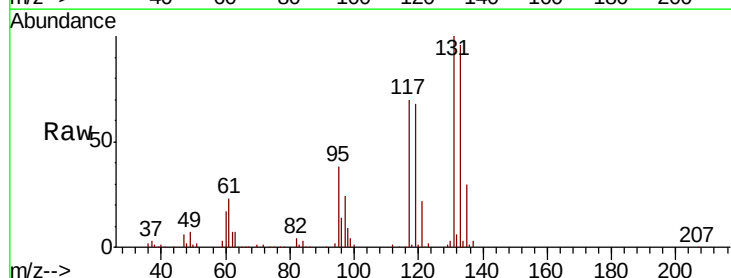
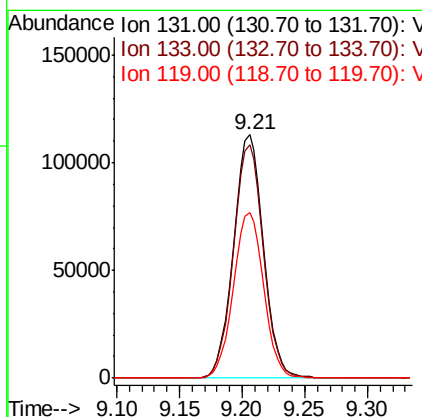
MMDadoda

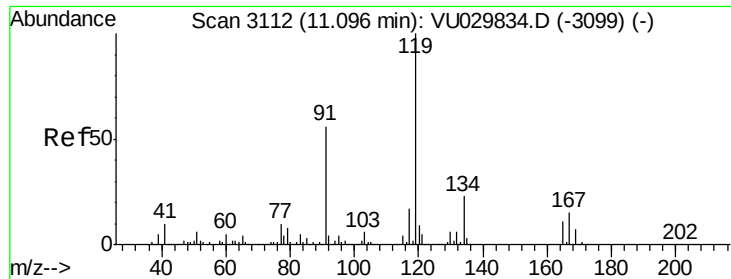
3/11/2019 4:50:46 PM



#60
1,1,1,2-Tetrachloroethane
Concen: 10.340 ug/l
RT: 9.21 min Scan# 2524
Delta R.T. -0.00 min
Lab File: VU029842.D
Acq: 06 Mar 2019 16:30

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.2	76.4	114.6
119	68.9	54.2	81.4





#61
 Pentachloroethane
 Concen: 10.481 ug/l
 RT: 11.10 min Scan# 3112
 Delta R.T. -0.00 min
 Lab File: VU029842.D
 Acq: 06 Mar 2019 16:30

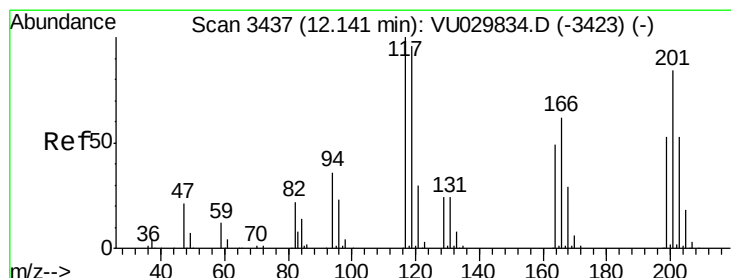
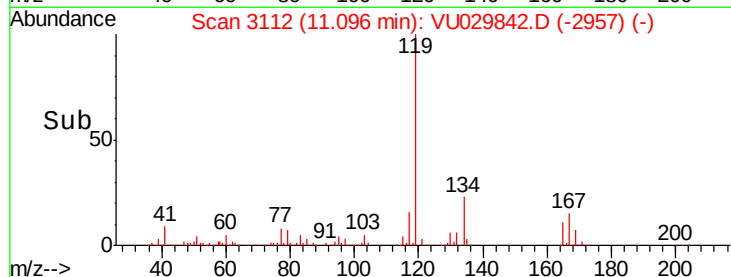
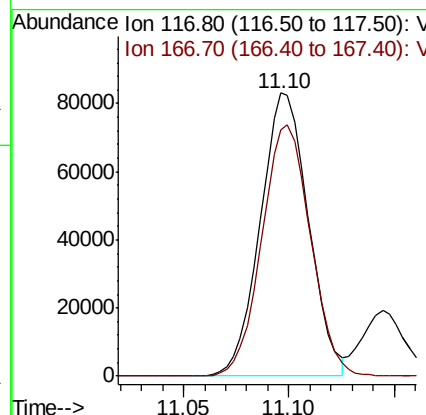
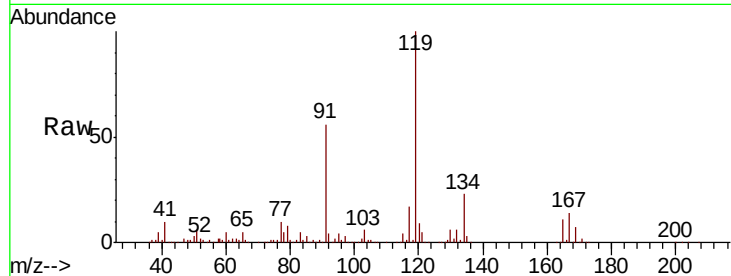
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion:117 Resp: 132171
 Ion Ratio Lower Upper
 117 100
 167 89.9 71.4 107.2

Manual Integrations
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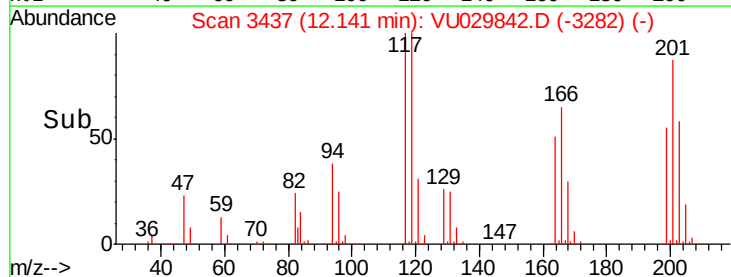
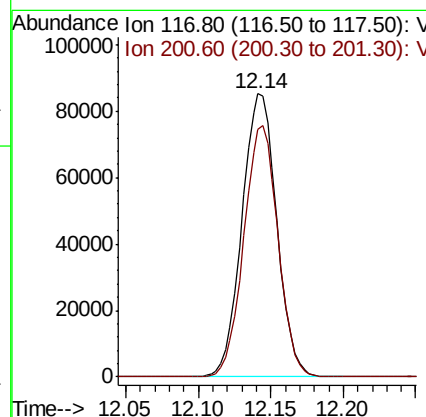
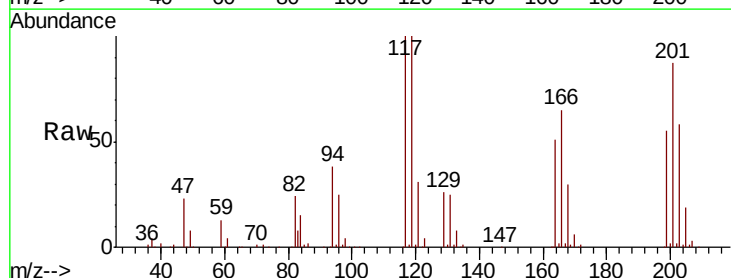
MMDadoda

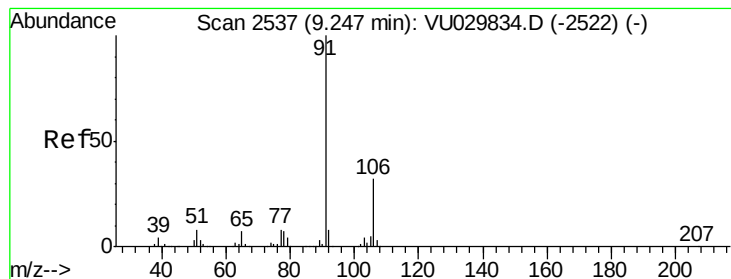
3/11/2019 4:50:46 PM



#62
 Hexachloroethane
 Concen: 10.681 ug/l
 RT: 12.14 min Scan# 3437
 Delta R.T. -0.00 min
 Lab File: VU029842.D
 Acq: 06 Mar 2019 16:30

Tgt Ion:117 Resp: 141695
 Ion Ratio Lower Upper
 117 100
 201 87.2 68.2 102.2





#63

Ethyl Benzene

Concen: 10.916 ug/l

RT: 9.24 min Scan# 2536

Delta R.T. -0.00 min

Lab File: VU029842.D

Acq: 06 Mar 2019 16:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 91 Resp: 902890

Ion Ratio Lower Upper

91 100

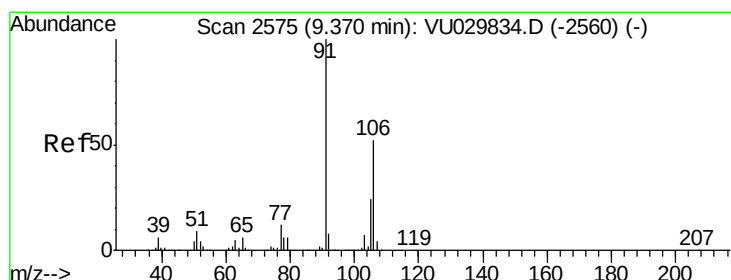
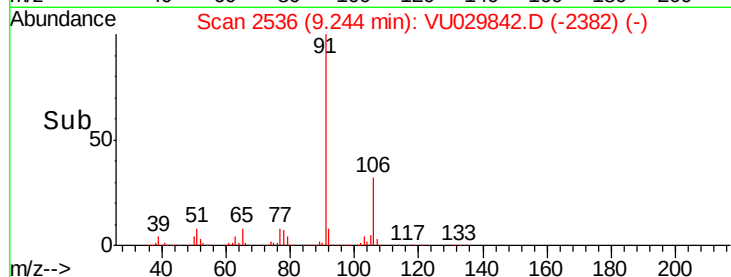
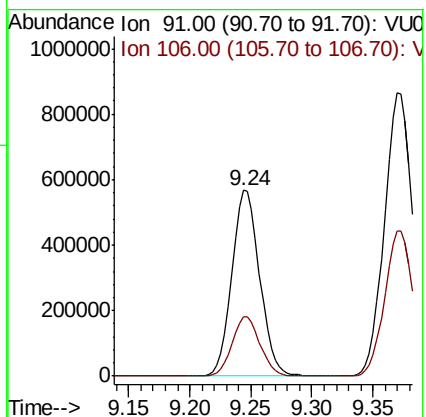
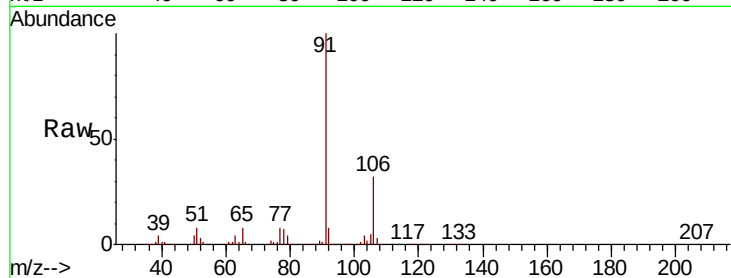
106 31.8 25.7 38.5

Manual Integrations

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#64

m/p-Xylenes

Concen: 22.290 ug/l

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU029842.D

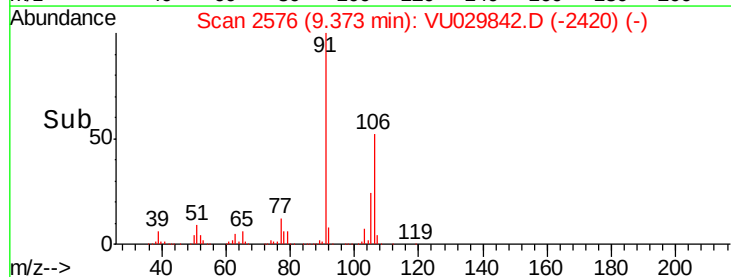
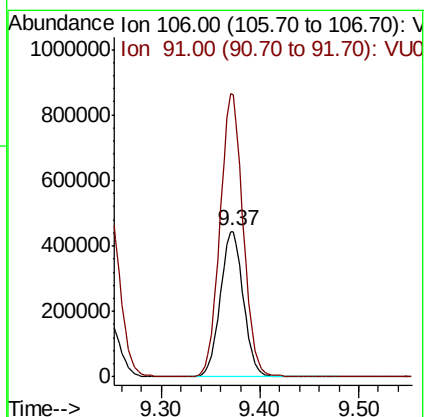
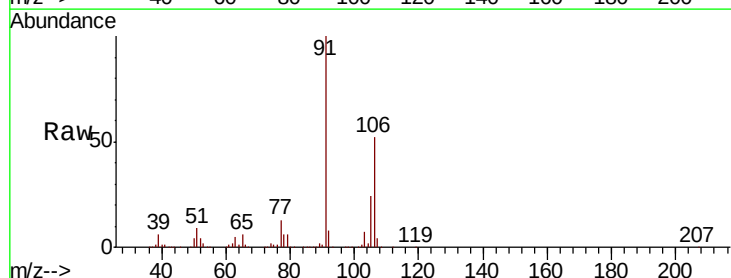
Acq: 06 Mar 2019 16:30

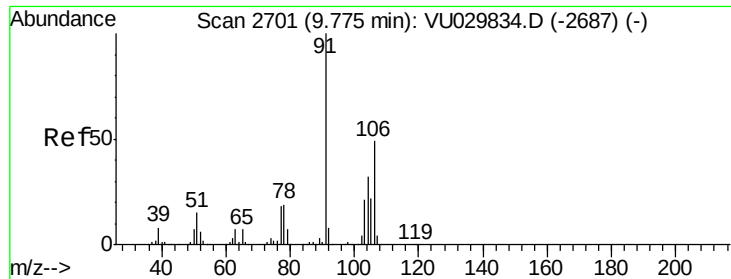
Tgt Ion: 106 Resp: 728874

Ion Ratio Lower Upper

106 100

91 194.8 155.3 232.9





#65
o-Xylene
Concen: 11.204 ug/l
RT: 9.77 min Scan# 2701
Delta R.T. -0.00 min
Lab File: VU029842.D
Acq: 06 Mar 2019 16:30

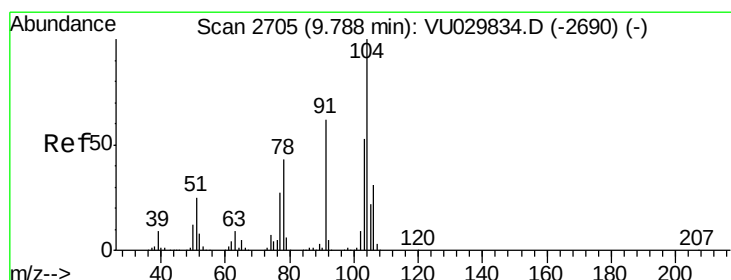
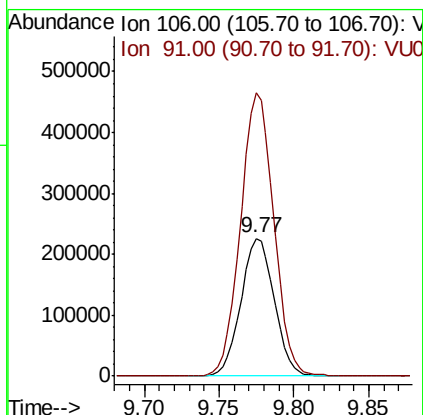
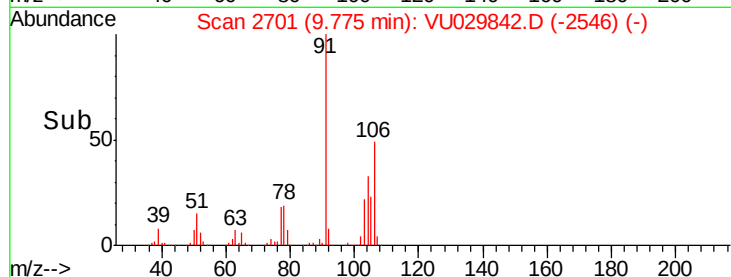
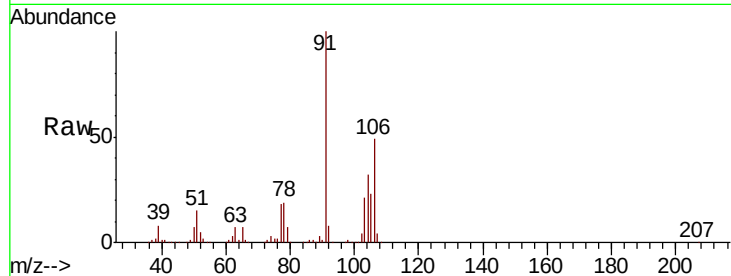
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tgt Ion:106 Resp: 351875
Ion Ratio Lower Upper
106 100
91 205.1 102.8 308.3

Manual Integrations
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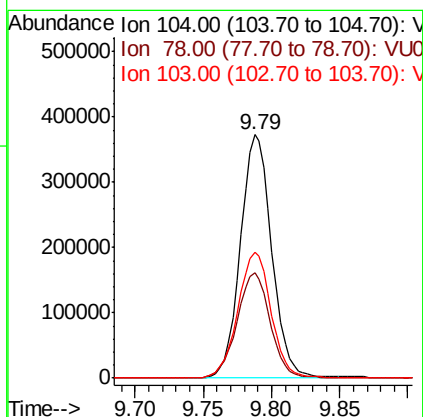
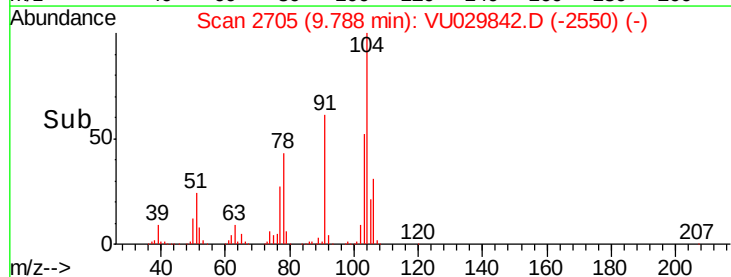
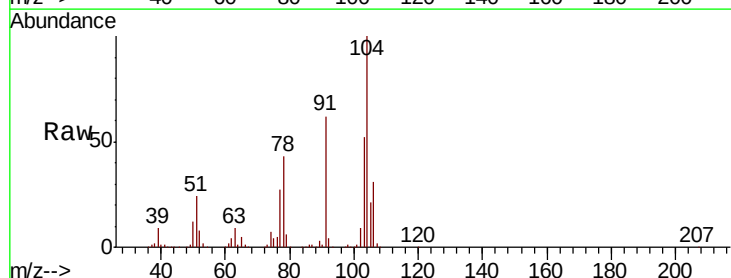
MMDadoda

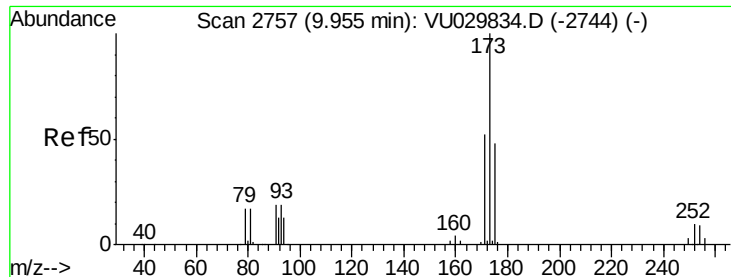
3/11/2019 4:50:46 PM



#66
Styrene
Concen: 11.379 ug/l
RT: 9.79 min Scan# 2705
Delta R.T. -0.00 min
Lab File: VU029842.D
Acq: 06 Mar 2019 16:30

Tgt Ion:104 Resp: 593702
Ion Ratio Lower Upper
104 100
78 46.4 37.2 55.8
103 55.5 44.7 67.1





#67

Bromoform

Concen: 10.990 ug/l

RT: 9.95 min Scan# 2757

Delta R.T. -0.00 min

Lab File: VU029842.D

Acq: 06 Mar 2019 16:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tgt Ion:173 Resp: 106435

Ion Ratio Lower Upper

173 100

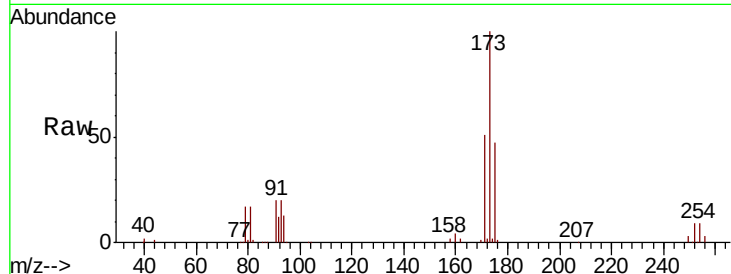
175 48.2 38.6 57.8

254 9.1 7.4 11.2

Manual Integrations
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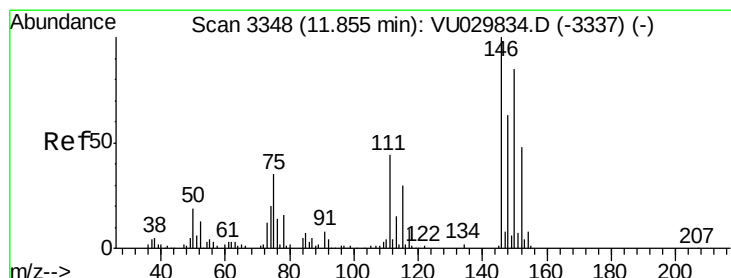
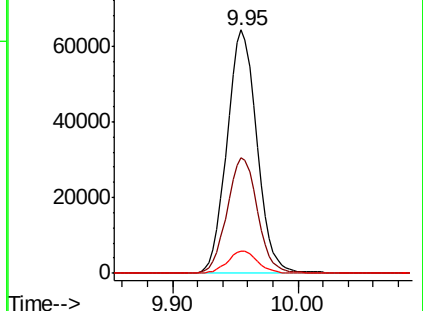
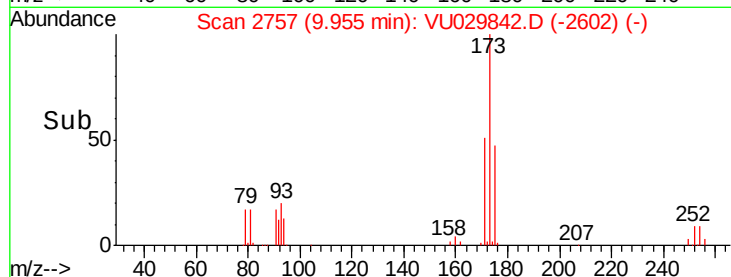
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 253.75 (253.45 to 254.45): V



#68

1,2-Dichlorobenzene-d4

Concen: 10.990 ug/l

RT: 11.86 min Scan# 3349

Delta R.T. 0.00 min

Lab File: VU029842.D

Acq: 06 Mar 2019 16:30

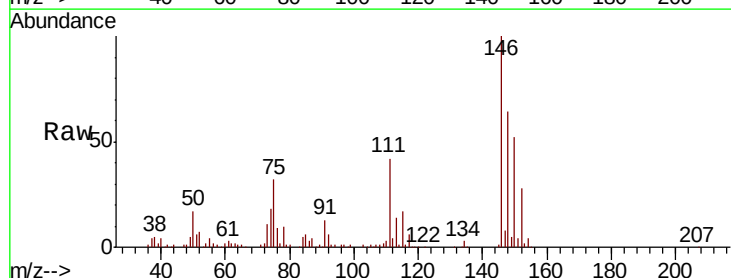
Tgt Ion:152 Resp: 28119

Ion Ratio Lower Upper

152 100

115 60.3 0.0 124.0

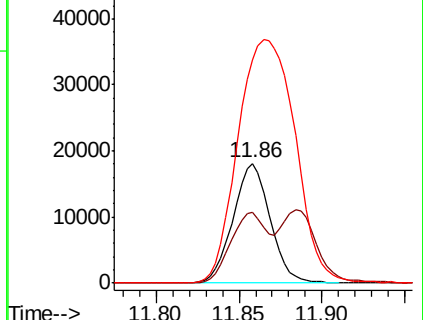
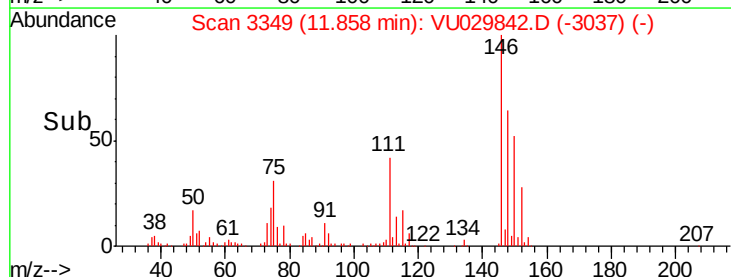
150 313.8 0.0 631.2

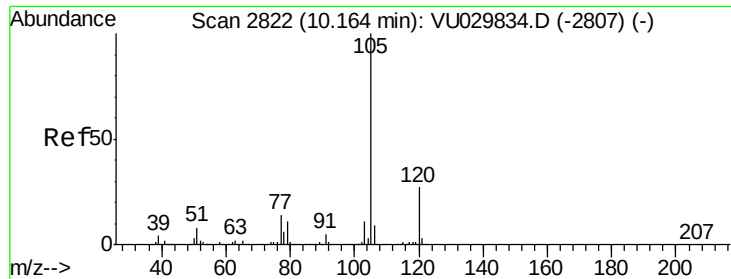


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#69

Isopropylbenzene

Concen: 11.115 ug/l

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU029842.D

Acq: 06 Mar 2019 16:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 105.00 Resp: 925641

Ion Ratio Lower Upper

105 100

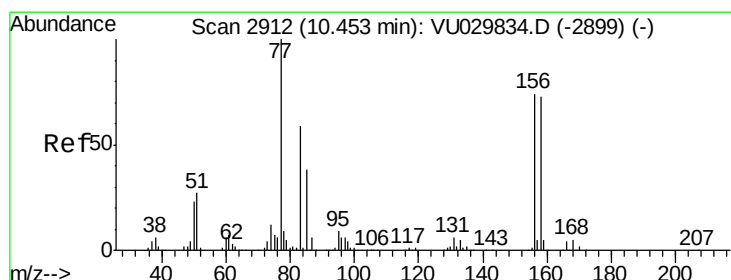
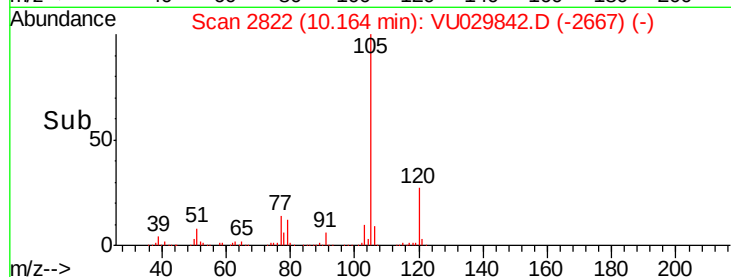
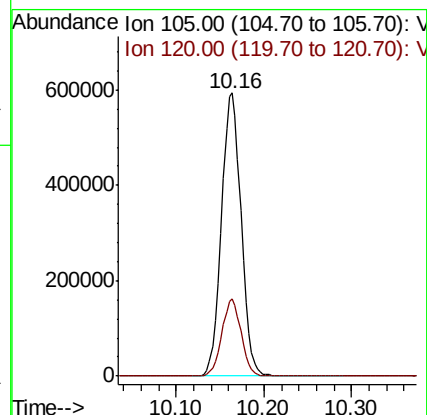
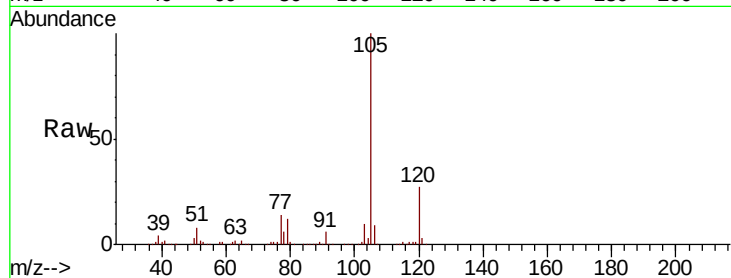
120 26.7 13.5 40.5

Manual Integrations

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#70

1,1,2,2-Tetrachloroethane

Concen: 10.630 ug/l

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU029842.D

Acq: 06 Mar 2019 16:30

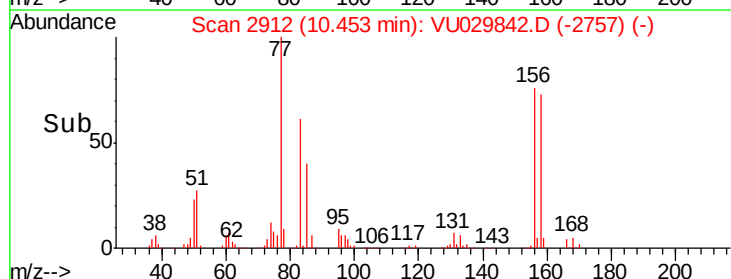
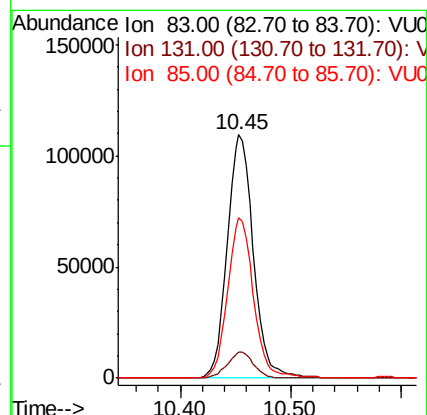
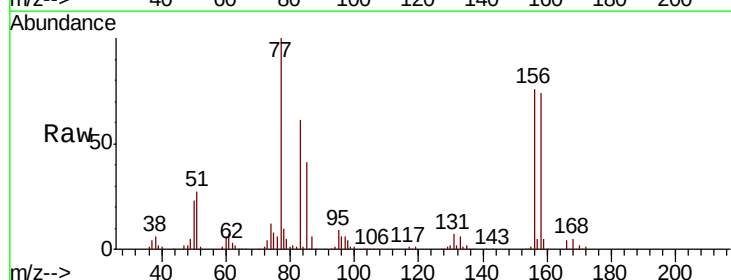
Tgt Ion: 83 Resp: 180104

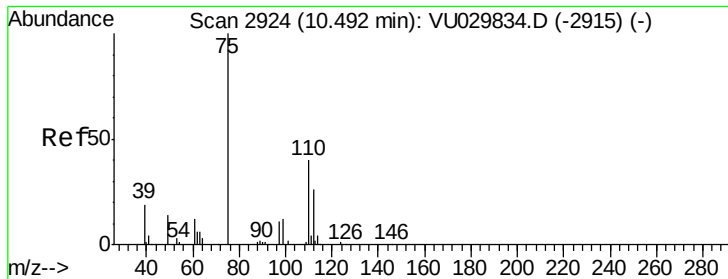
Ion Ratio Lower Upper

83 100

131 10.7 8.3 12.5

85 64.8 52.5 78.7





#71

1,2,3-Trichloropropane

Concen: 10.186 ug/l m

RT: 10.49 min Scan# 2924

Delta R.T. -0.00 min

Lab File: VU029842.D

Acq: 06 Mar 2019 16:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 75 Resp: 128270

Ion Ratio Lower Upper

75 100

77 53.9 0.0 16.4#

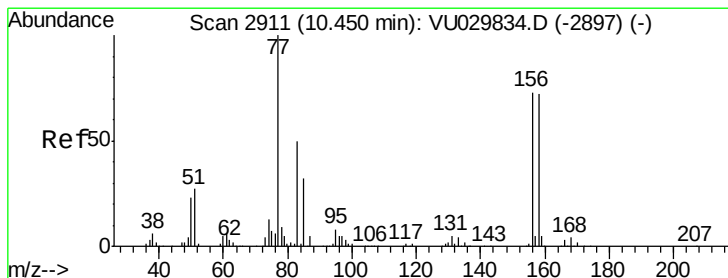
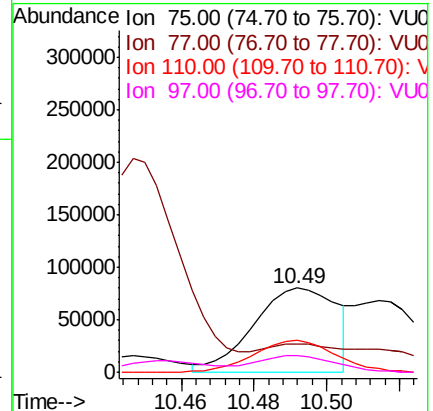
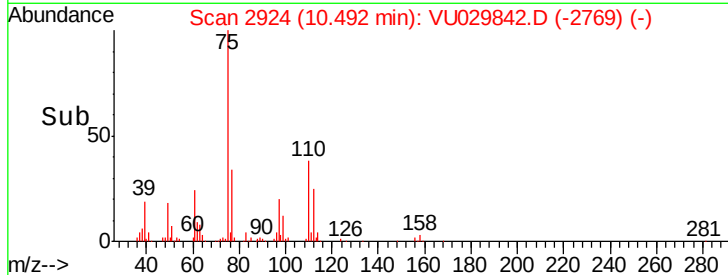
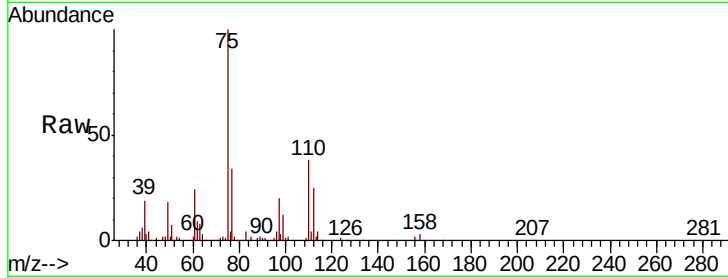
110 37.4 0.0 74.8

97 19.2 0.0 39.4

Manual Integrations
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#72

Bromobenzene

Concen: 10.790 ug/l

RT: 10.45 min Scan# 2911

Delta R.T. -0.00 min

Lab File: VU029842.D

Acq: 06 Mar 2019 16:30

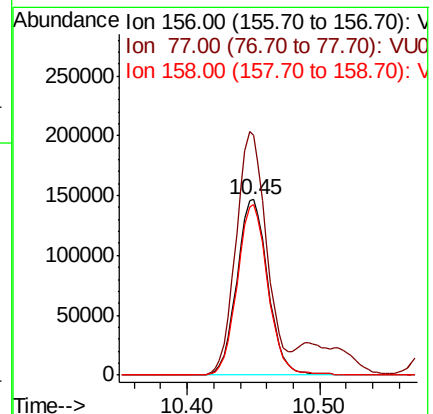
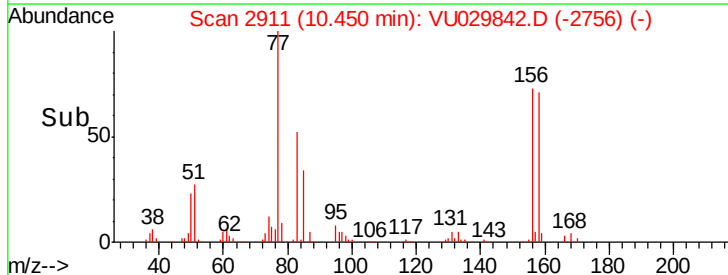
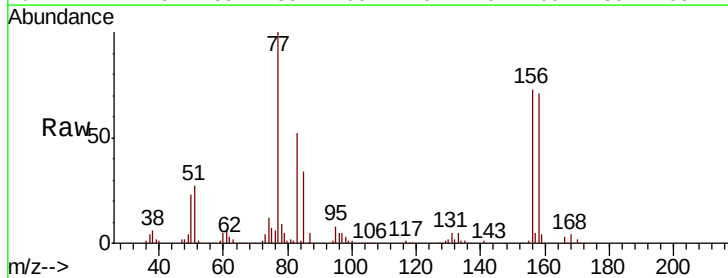
Tgt Ion: 156 Resp: 237839

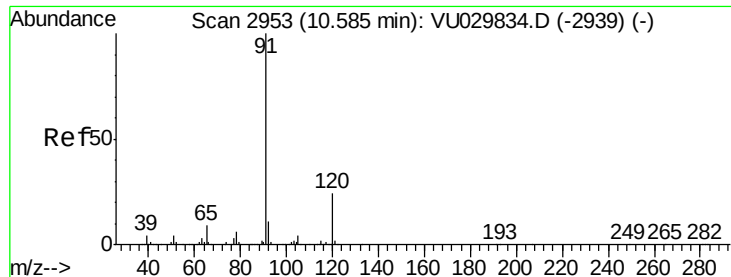
Ion Ratio Lower Upper

156 100

77 136.4 0.0 282.2

158 96.6 0.0 196.2





#73
n-propylbenzene
Concen: 11.255 ug/l
RT: 10.58 min Scan# 2953
Delta R.T. -0.00 min
Lab File: VU029842.D
Acq: 06 Mar 2019 16:30

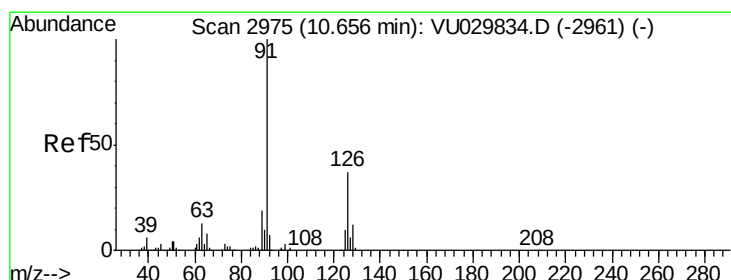
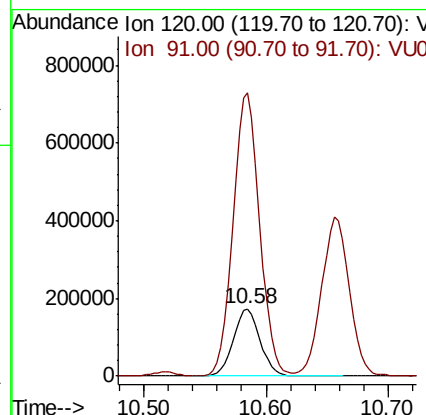
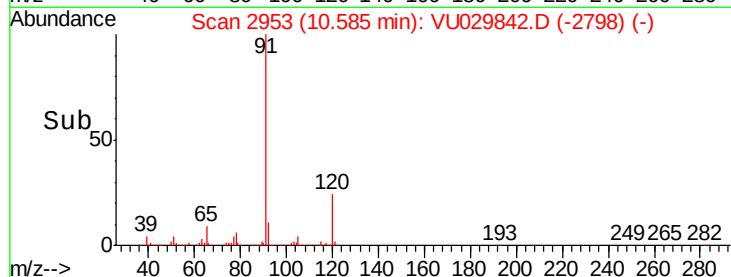
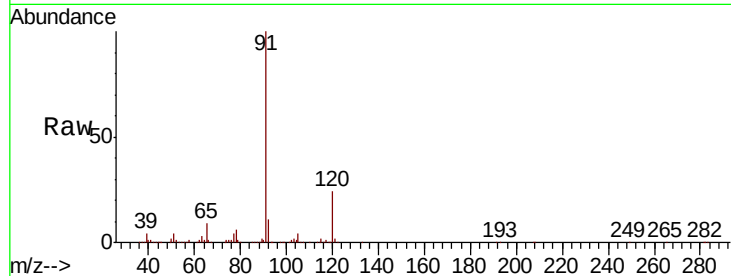
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tgt Ion:120 Resp: 263505
Ion Ratio Lower Upper
120 100
91 419.5 333.4 500.2

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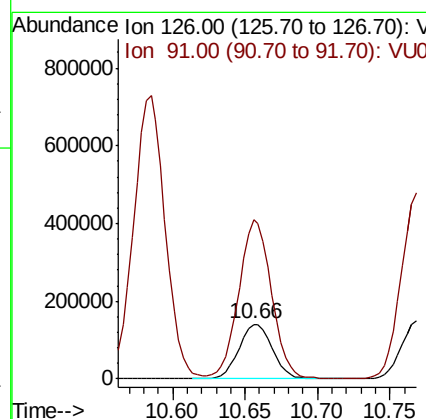
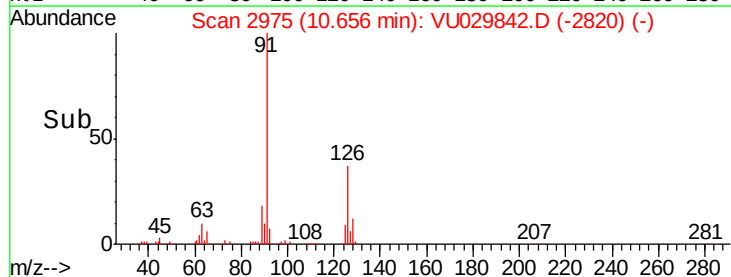
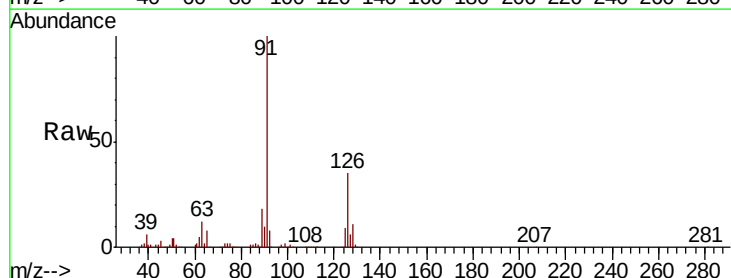
MMDadoda

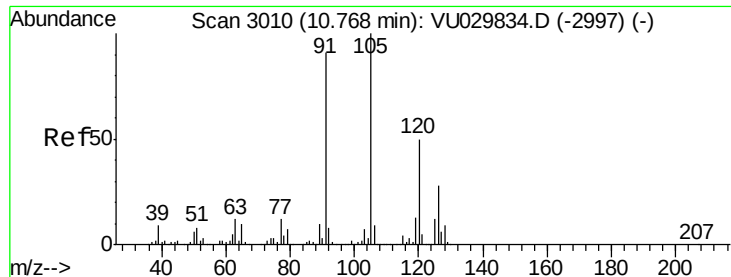
3/11/2019 4:50:46 PM



#74
2-Chlorotoluene
Concen: 10.834 ug/l
RT: 10.66 min Scan# 2975
Delta R.T. -0.00 min
Lab File: VU029842.D
Acq: 06 Mar 2019 16:30

Tgt Ion:126 Resp: 224999
Ion Ratio Lower Upper
126 100
91 282.1 0.0 569.0





#75

1,3,5-Trimethylbenzene

Concen: 11.215 ug/l

RT: 10.77 min Scan# 3010

Delta R.T. -0.00 min

Lab File: VU029842.D

Acq: 06 Mar 2019 16:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

Tgt Ion:105 Resp: 786833

Ion Ratio Lower Upper

105 100

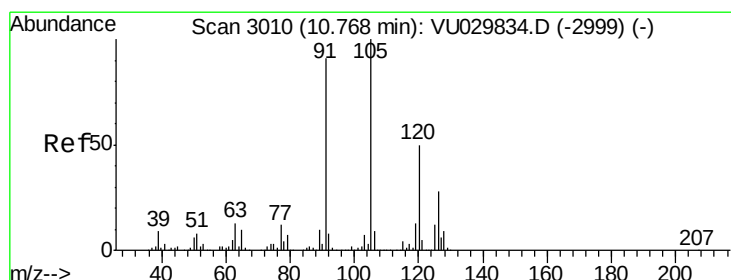
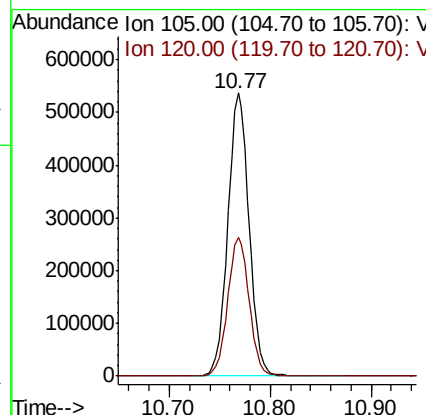
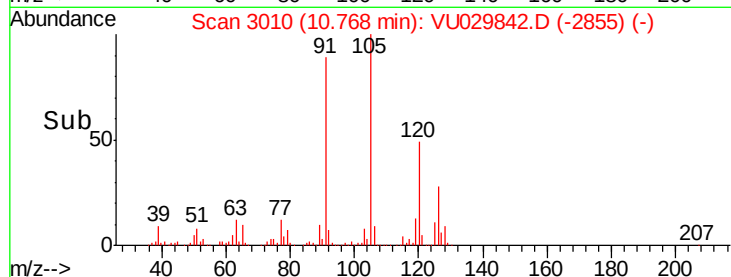
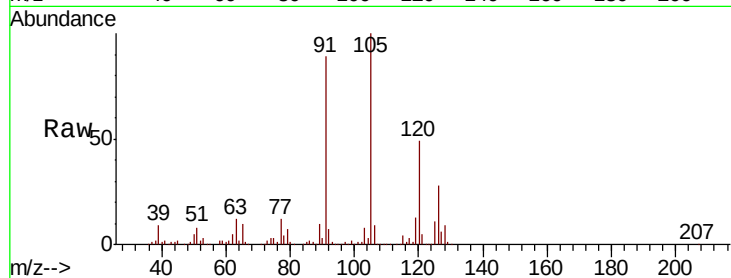
120 49.9 40.0 60.0

Manual Integrations

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#76

4-Chlorotoluene

Concen: 10.966 ug/l

RT: 10.77 min Scan# 3010

Delta R.T. -0.00 min

Lab File: VU029842.D

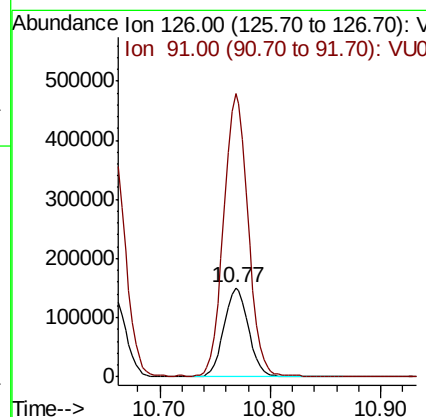
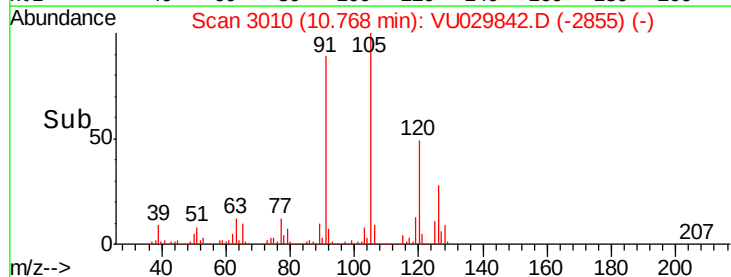
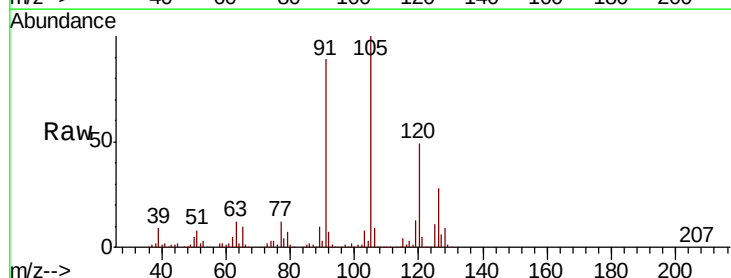
Acq: 06 Mar 2019 16:30

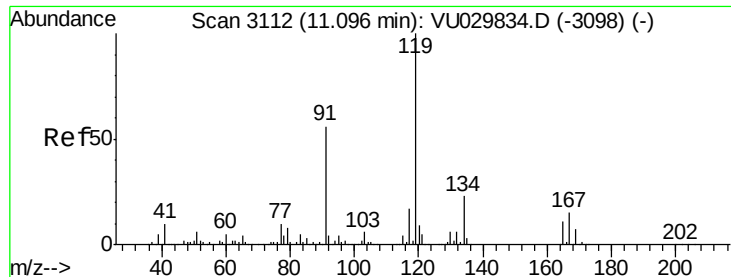
Tgt Ion:126 Resp: 232236

Ion Ratio Lower Upper

126 100

91 317.4 0.0 634.8





#77
 tert-Butylbenzene
 Concen: 11.095 ug/l
 RT: 11.10 min Scan# 3112
 Delta R.T. -0.00 min
 Lab File: VU029842.D
 Acq: 06 Mar 2019 16:30

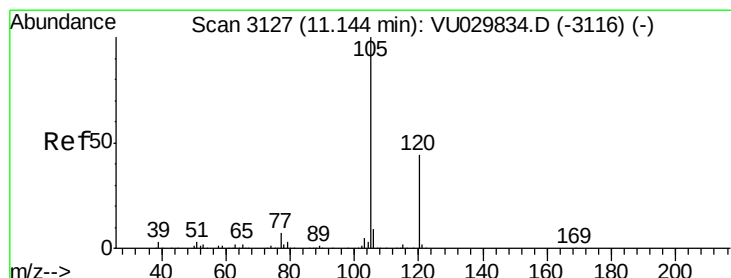
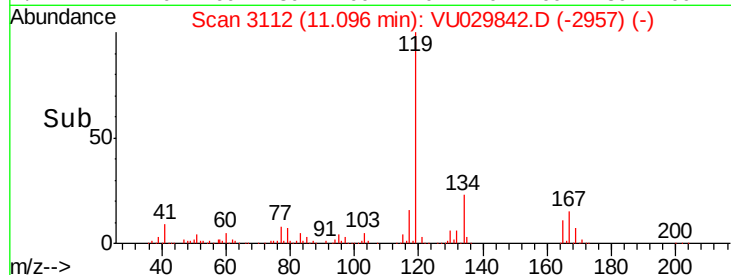
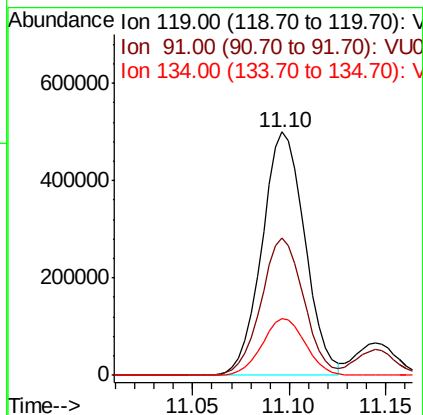
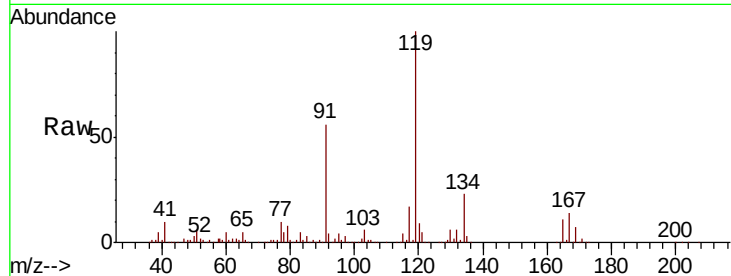
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
119	100		
91	56.1	27.7	83.1
134	23.5	18.7	28.1

Manual Integrations
 APPROVED

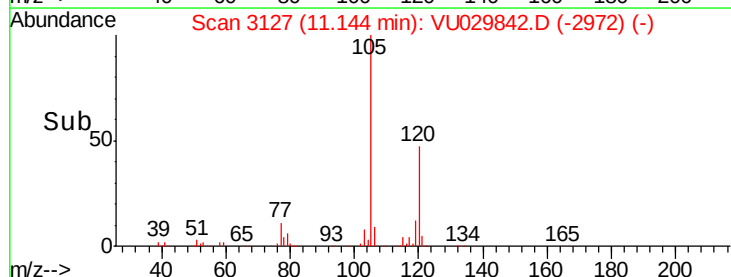
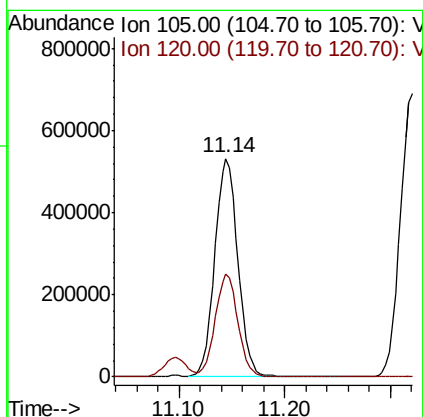
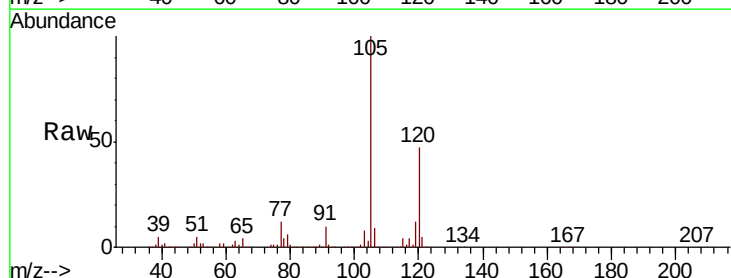
MMDadoda

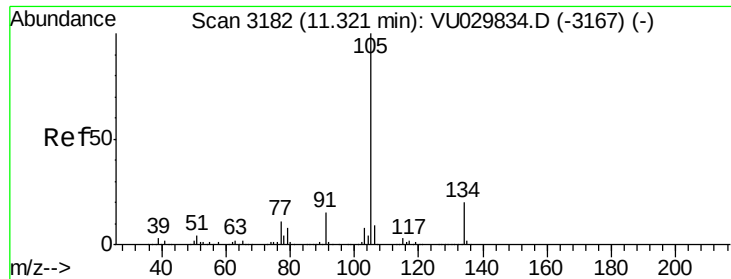
3/11/2019 4:50:46 PM



#78
 1,2,4-Trimethylbenzene
 Concen: 11.349 ug/l
 RT: 11.14 min Scan# 3127
 Delta R.T. -0.00 min
 Lab File: VU029842.D
 Acq: 06 Mar 2019 16:30

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.5	23.5	70.5





#79
 sec-Butylbenzene
 Concen: 11.354 ug/l
 RT: 11.32 min Scan# 3182
 Delta R.T. -0.00 min
 Lab File: VU029842.D
 Acq: 06 Mar 2019 16:30

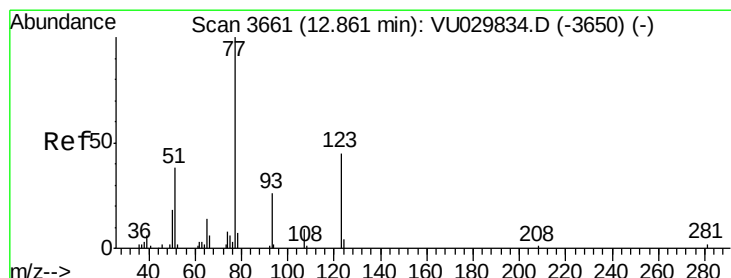
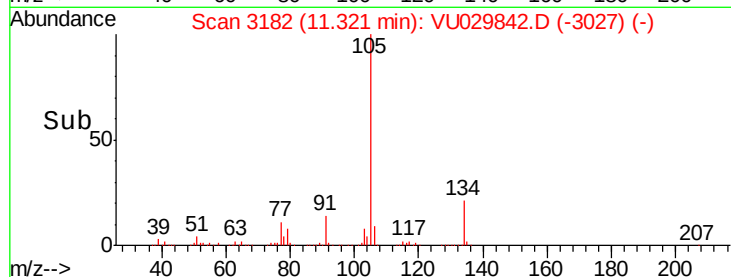
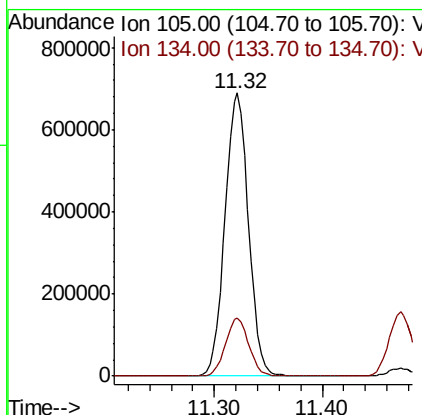
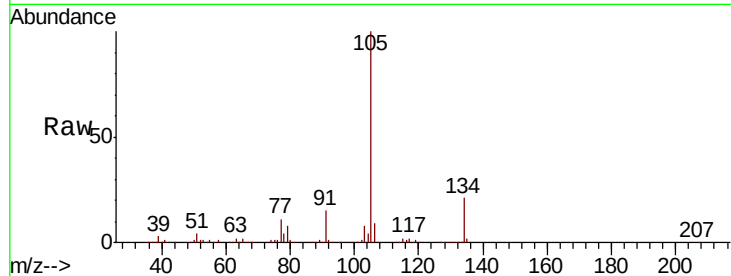
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 105 Resp: 1044519
 Ion Ratio Lower Upper
 105 100
 134 20.5 16.3 24.5

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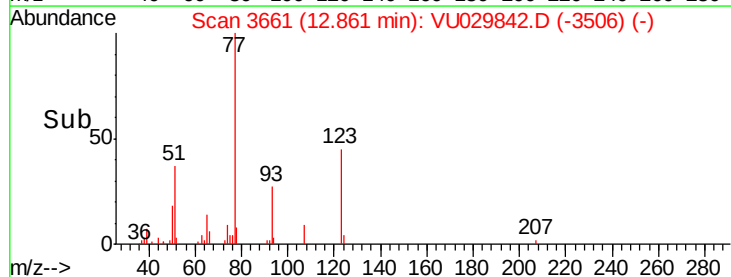
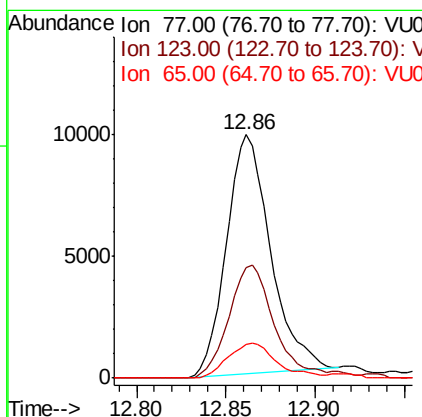
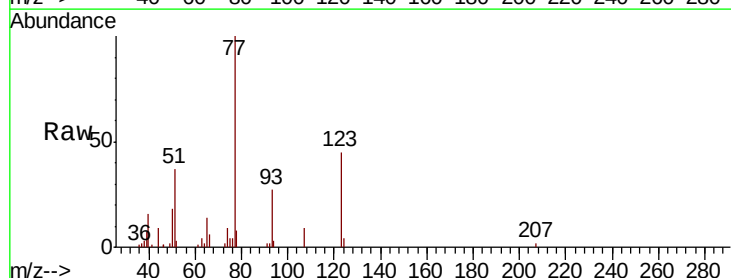
MMDadoda

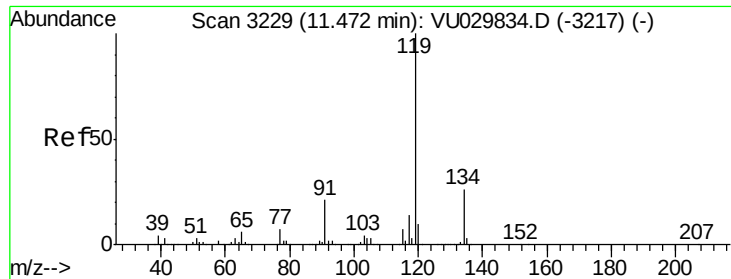
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#80
 Nitrobenzene
 Concen: 55.361 ug/l
 RT: 12.86 min Scan# 3661
 Delta R.T. -0.00 min
 Lab File: VU029842.D
 Acq: 06 Mar 2019 16:30

Tgt Ion: 77 Resp: 17028
 Ion Ratio Lower Upper
 77 100
 123 47.4 20.2 71.4
 65 14.1 14.0 17.8





#81
p-Isopropyltoluene
Concen: 11.430 ug/l
RT: 11.47 min Scan# 3229
Delta R.T. -0.00 min
Lab File: VU029842.D
Acq: 06 Mar 2019 16:30

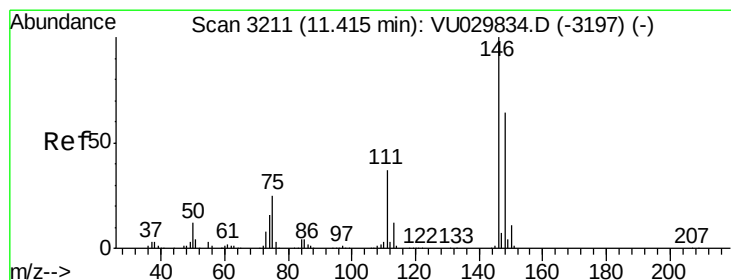
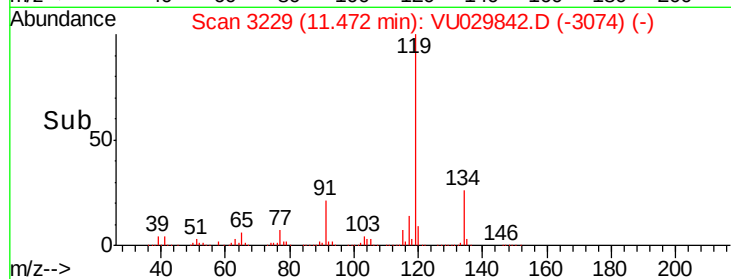
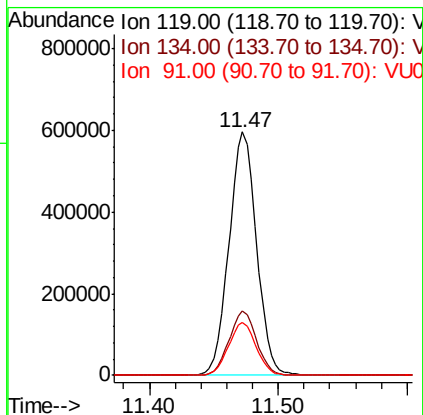
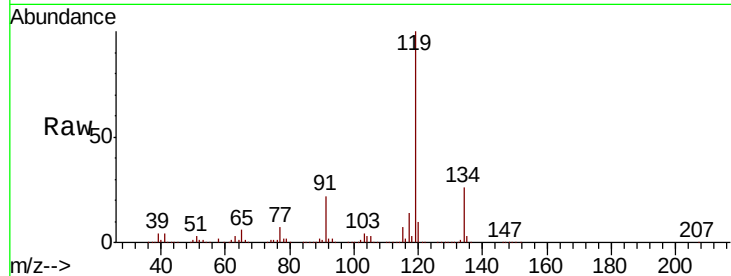
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.5	21.2	31.8
91	21.7	17.2	25.8

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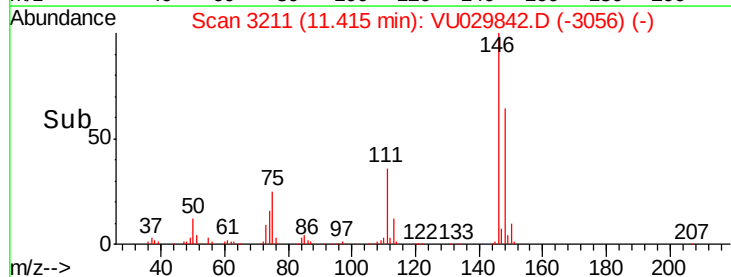
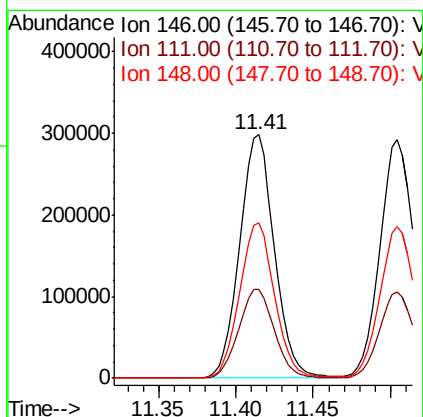
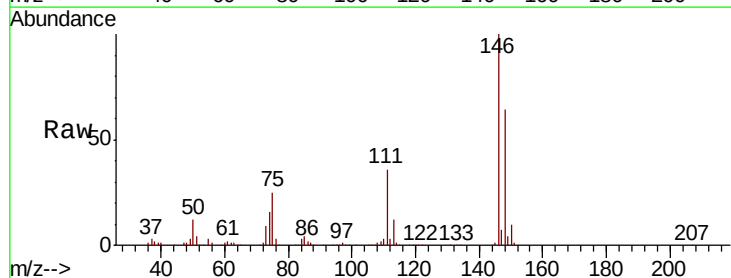
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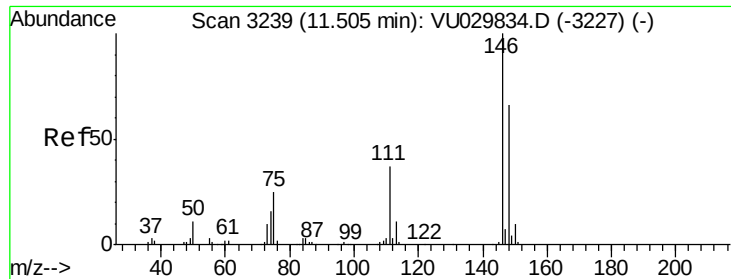
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#82
1,3-Dichlorobenzene
Concen: 10.693 ug/l
RT: 11.41 min Scan# 3211
Delta R.T. -0.00 min
Lab File: VU029842.D
Acq: 06 Mar 2019 16:30

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.4	30.2	45.4
148	64.1	51.2	76.8





#83
1,4-Dichlorobenzene
Concen: 10.834 ug/l
RT: 11.50 min Scan# 3239
Delta R.T. -0.00 min
Lab File: VU029842.D
Acq: 06 Mar 2019 16:30

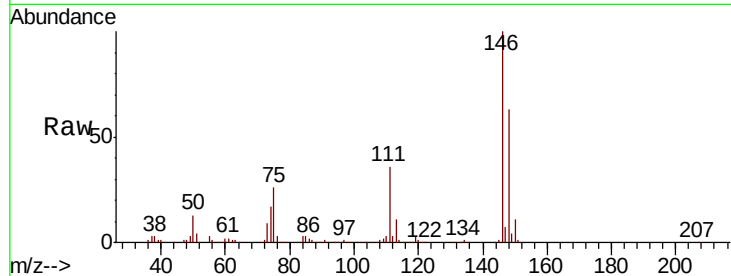
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.2	29.4	44.2
148	63.9	51.7	77.5

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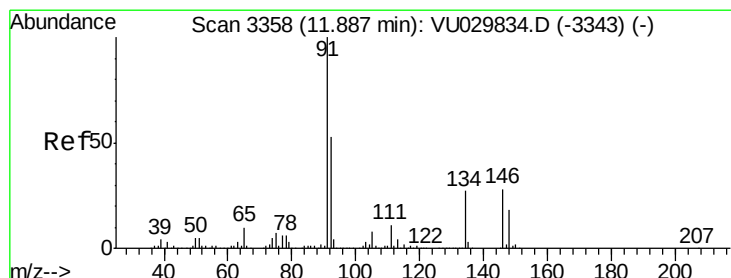
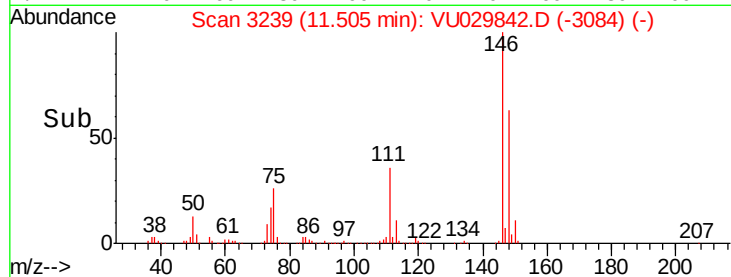
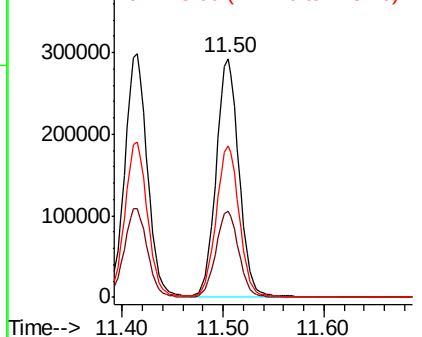


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#84
n-Butylbenzene
Concen: 11.480 ug/l
RT: 11.89 min Scan# 3358
Delta R.T. -0.00 min
Lab File: VU029842.D
Acq: 06 Mar 2019 16:30

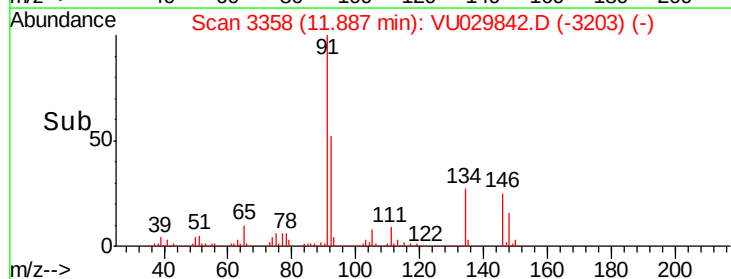
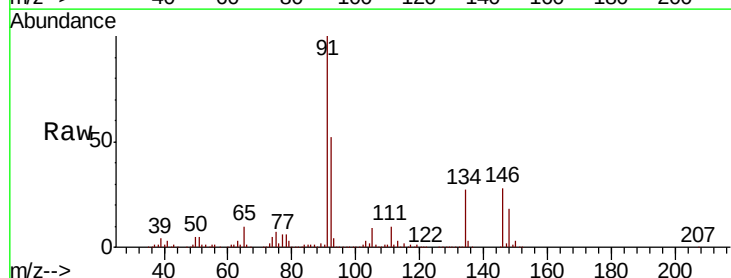
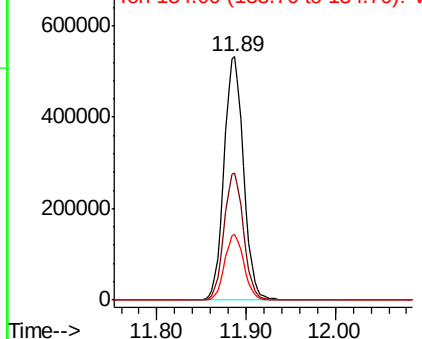
Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.3	42.6	63.8
134	26.9	21.7	32.5

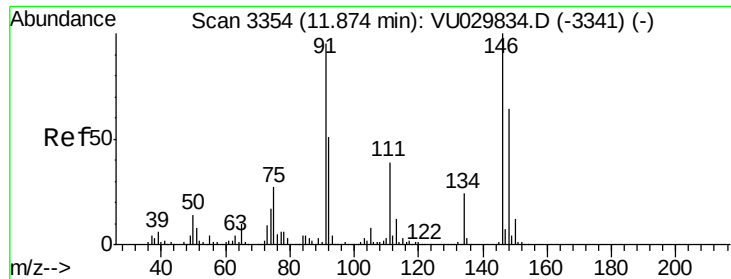
Abundance

Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0

Ion 134.00 (133.70 to 134.70): V





#85
 1,2-Dichlorobenzene
 Concen: 10.551 ug/l
 RT: 11.87 min Scan# 3354
 Delta R.T. -0.00 min
 Lab File: VU029842.D
 Acq: 06 Mar 2019 16:30

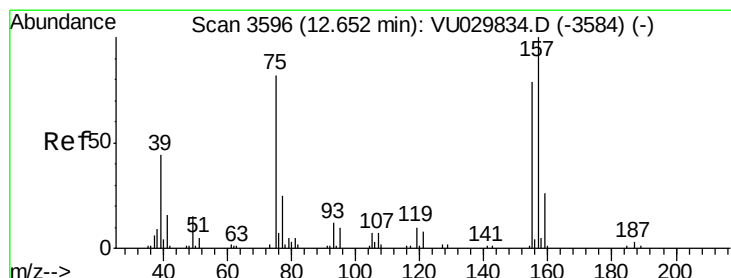
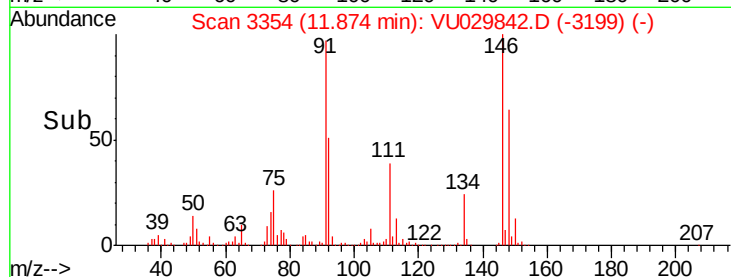
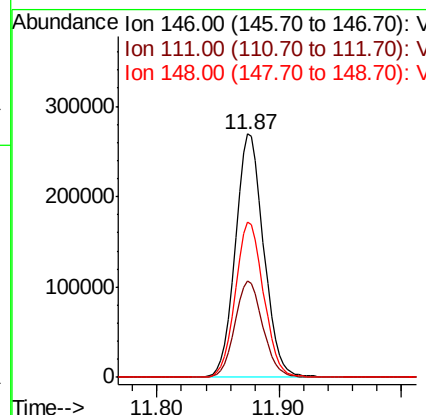
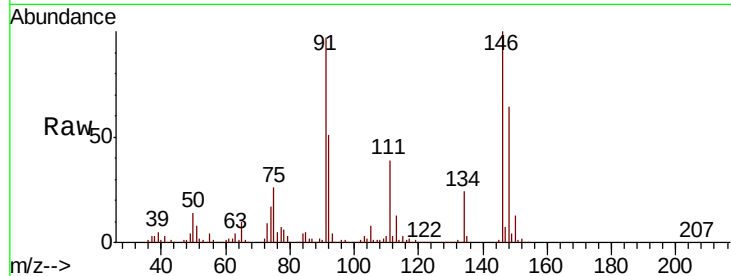
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.3	19.9	59.6
148	63.9	32.1	96.3

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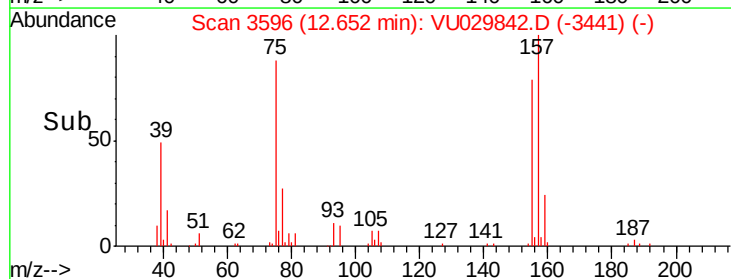
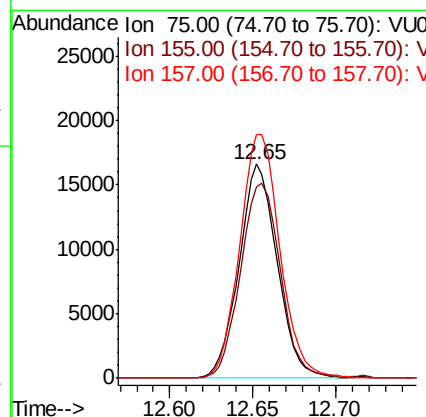
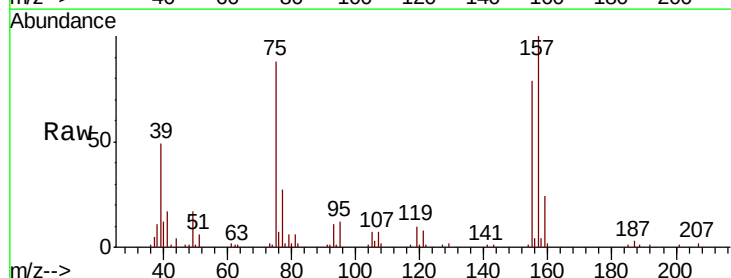
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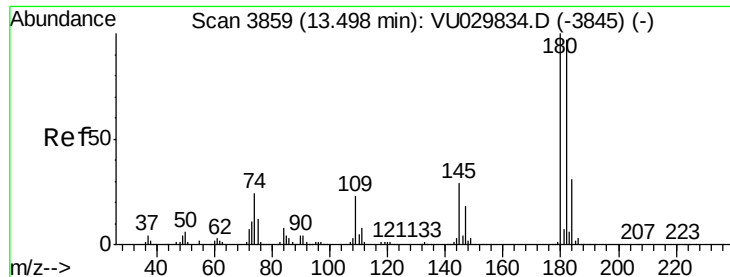
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#86
 1,2-Dibromo-3-Chloropropane
 Concen: 10.996 ug/l
 RT: 12.65 min Scan# 3596
 Delta R.T. -0.00 min
 Lab File: VU029842.D
 Acq: 06 Mar 2019 16:30

Tgt Ion	Ratio	Lower	Upper
75	100		
155	95.1	76.6	114.8
157	119.9	96.2	144.2





#87

1,2,4-Trichlorobenzene

Concen: 11.357 ug/l

RT: 13.50 min Scan# 3859

Delta R.T. -0.00 min

Lab File: VU029842.D

Acq: 06 Mar 2019 16:30

Instrument :

MSVOA_U

ClientSampleId :

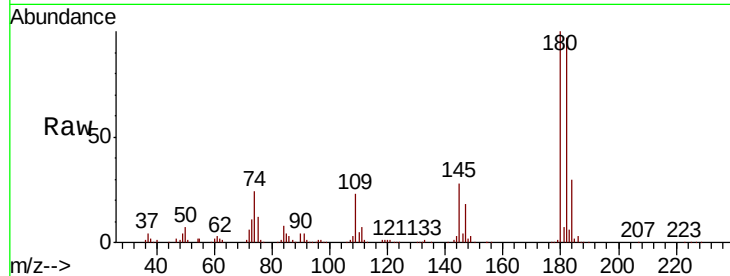
VSTDCCC010EC

Tgt Ion:	180	Resp:	299402
Ion Ratio	Lower	Upper	
180	100		
182	96.1	77.5	116.3
145	28.7	23.6	35.4

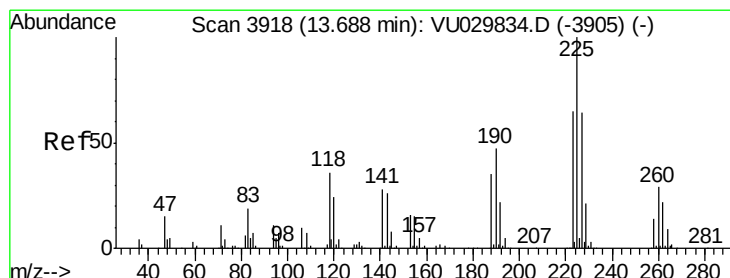
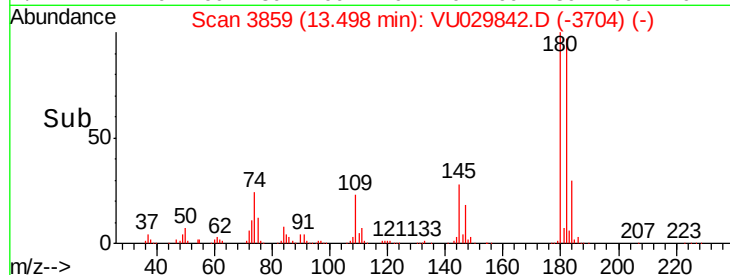
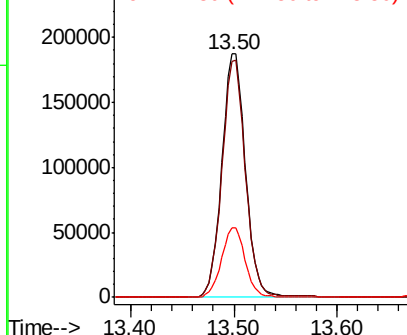
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Abundance Ion 179.70 (179.40 to 180.40): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V



#88

Hexachlorobutadiene

Concen: 10.550 ug/l

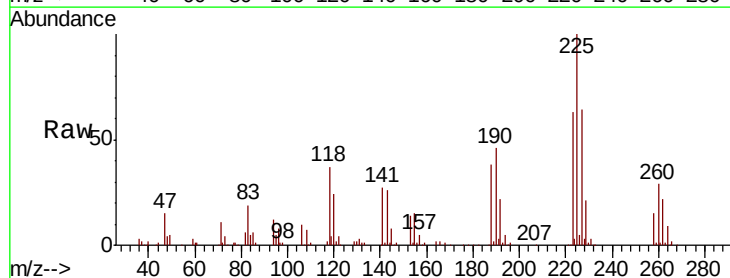
RT: 13.69 min Scan# 3918

Delta R.T. -0.00 min

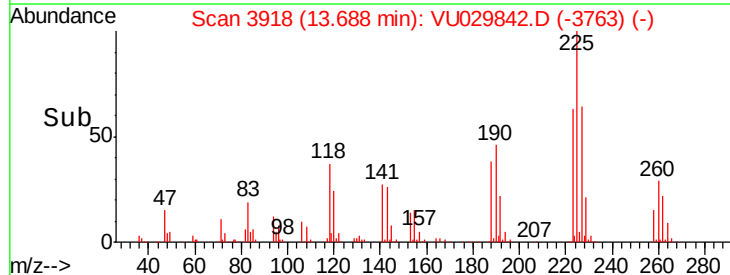
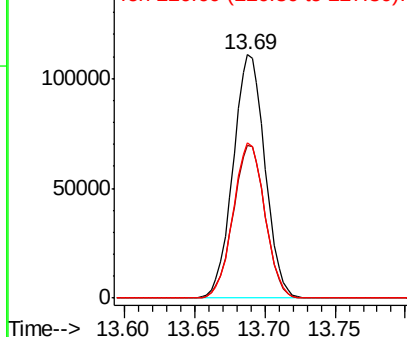
Lab File: VU029842.D

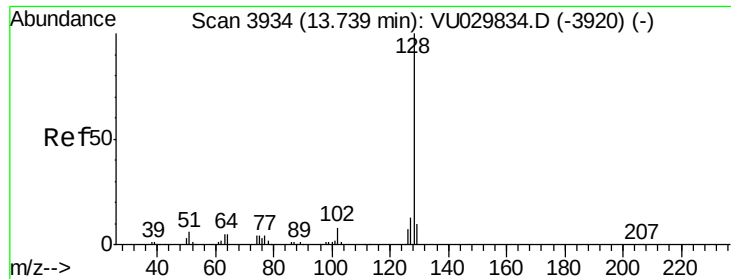
Acq: 06 Mar 2019 16:30

Tgt Ion:	225	Resp:	175180
Ion Ratio	Lower	Upper	
225	100		
223	62.7	51.2	76.8
227	63.5	50.9	76.3



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





#89
Naphthalene
Concen: 9.946 ug/l
RT: 13.74 min Scan# 3934
Delta R.T. 0.00 min
Lab File: VU029842.D
Acq: 06 Mar 2019 16:30

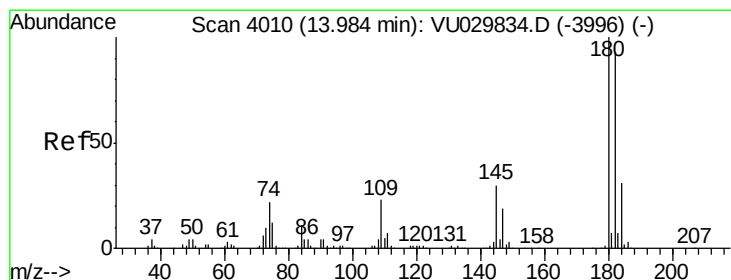
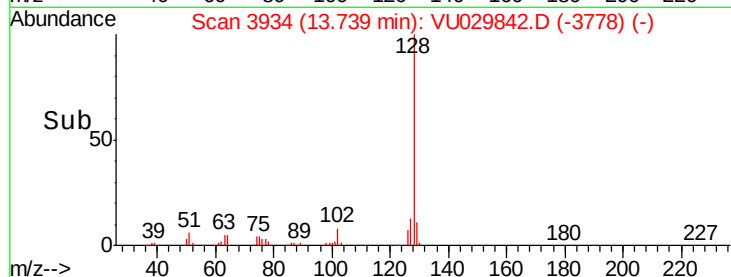
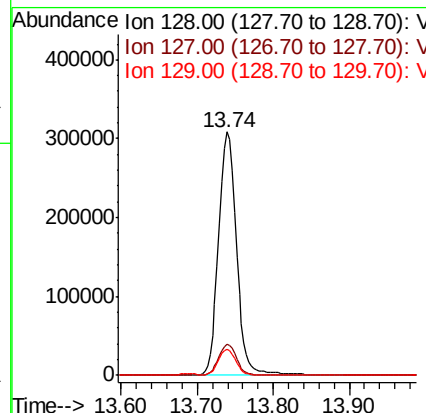
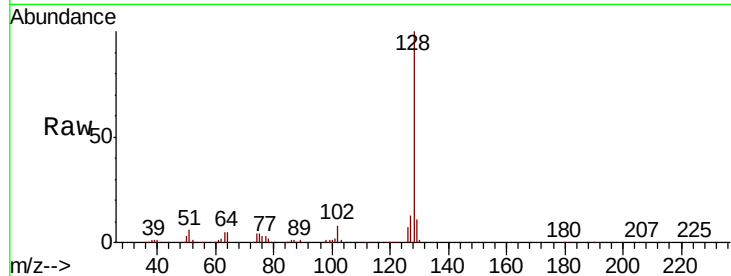
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.4
129	10.2	8.2	12.4

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#90
1,2,3-Trichlorobenzene
Concen: 11.172 ug/l
RT: 13.98 min Scan# 4010
Delta R.T. -0.00 min
Lab File: VU029842.D
Acq: 06 Mar 2019 16:30

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.7	74.8	112.2
145	30.9	24.6	36.8

