

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU030719\
 Data File : VU029840.D
 Acq On : 06 Mar 2019 15:09
 Operator : JC/SP
 Sample : VU0307WBS01
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 Client Sampled :
 VU0307WBS01

Manual Integrations
 APPROVED

Quant Time: Mar 08 01:51:56 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

MMDadoda

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	3/11/2019 4:50:34 PM
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1) Fluorobenzene	5.74	96	63038	1.00	ug/l	0.00	
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System Monitoring Compounds

57) 4-Bromofluorobenzene	10.31	95	22492	0.99	ug/l	0.00	
Spiked Amount	1.000		Recovery	=	99.00%		
68) 1,2-Dichlorobenzene-d4	11.86	152	25661	0.98	ug/l	0.00	
Spiked Amount	1.000		Recovery	=	98.00%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	40152	1.904	ug/l	100
3) Chloromethane	1.33	50	36554	1.946	ug/l	98
4) Vinyl Chloride	1.40	62	41441	1.961	ug/l	98
5) Bromomethane	1.63	94	28441	1.971	ug/l	99
6) Chloroethane	1.70	64	25474	2.011	ug/l	99
7) Trichlorofluoromethane	1.88	101	54837	1.904	ug/l	99
8) 1,1,2-Trichloro-1,2,2-trif	2.29	101	32108	1.917	ug/l	99
9) 1,1-Dichloroethene	2.28	96	32029	1.953	ug/l	97
10) Iodomethane	2.41	142	30934	2.172	ug/l	99
11) Allyl Chloride	2.59	41	43926	1.906	ug/l	100
12) Acrylonitrile	2.93	53	13413	3.752	ug/l	100
13) Acetone	2.32	43	28164	9.511	ug/l	95
14) Carbon Disulfide	2.47	76	101268	1.907	ug/l	99
15) Methylene Chloride	2.69	84	38262	1.945	ug/l	99
16) trans-1,2-Dichloroethene	2.98	96	36399	1.965	ug/l	97
17) 1,1-Dichloroethane	3.44	63	58675	1.893	ug/l	98
18) 2-Butanone	4.28	43	38189	9.490	ug/l	99
19) Cyclohexane	4.98	56	47205m	1.962	ug/l	
20) Methylcyclohexane	6.41	83	52630	1.878	ug/l	99
21) 2,2-Dichloropropane	4.22	77	47601	1.879	ug/l	99
22) cis-1,2-Dichloroethene	4.22	96	38441	1.958	ug/l	97
23) Diethyl Ether	2.10	59	23808	1.937	ug/l	97
24) tert-Butyl Alcohol	2.83	59	23303	18.377	ug/l	97
25) Methyl tert-Butyl Ether	3.00	73	80696	1.954	ug/l	98
26) Bromochloromethane	4.54	128	18056	2.072	ug/l	94
27) Chloroform	4.67	83	60936	1.942	ug/l	98
28) 1,1,1-Trichloroethane	4.91	97	51458	1.934	ug/l	98
29) 1,1-Dichloropropene	5.13	75	44034	1.862	ug/l	97
30) Carbon Tetrachloride	5.13	117	42844	1.846	ug/l	99
31) Isopropyl Ether	3.57	45	84583	1.979	ug/l	99
32) Ethyl-t-butyl ether	4.07	59	80211	1.931	ug/l	99
33) Tert-Amyl methyl ether	5.58	73	74149	1.930	ug/l	98
34) Propionitrile	4.33	54	10874	9.084	ug/l	# 79
35) Benzene	5.38	78	133165	1.912	ug/l	99
36) 1,2-Dichloroethane	5.40	62	37203	1.956	ug/l	99
37) Trichloroethene	6.18	130	38901	1.913	ug/l	94
38) 1,2-Dichloropropane	6.43	63	33614	1.906	ug/l	99
39) Methacrylonitrile	4.55	41	9348	1.856	ug/l	99
40) Methyl acrylate	4.44	55	15634	1.964	ug/l	95
41) Tetrahydrofuran	4.65	42	10472	3.976	ug/l	93
42) 1-Chlorobutane	5.06	56	59161	1.958	ug/l	100

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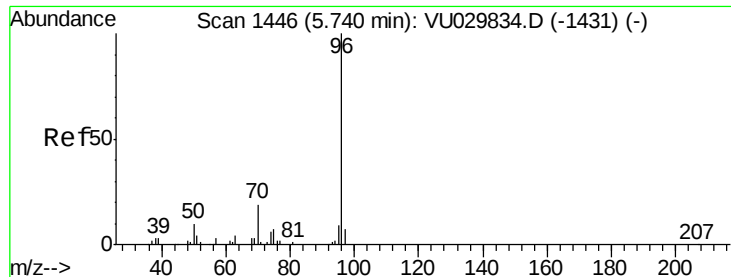
Manual Integrations
 APPROVED

Quant Time: Mar 08 01:51:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U030719DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	3/11/2019 4:50:34 PM
43) Dibromomethane	6.56	93	18821	2.060	ug/l	99	
44) Bromodichloromethane	6.75	83	41979	1.871	ug/l	97	
45) 4-Methyl-2-Pentanone	7.46	43	90466	9.492	ug/l	99	
46) t-1,4-Dichloro-2-butene	10.50	75	14236m	3.573	ug/l		
47) Methyl methacrylate	6.63	69	28452	3.628	ug/l	96	
48) Ethyl methacrylate	8.02	69	29203	1.944	ug/l	99	
49) Toluene	7.63	92	83403	1.950	ug/l	97	
50) t-1,3-Dichloropropene	7.88	75	36631	1.862	ug/l	96	
51) cis-1,3-Dichloropropene	7.27	75	46318	1.902	ug/l	100	
52) 1,1,2-Trichloroethane	8.06	97	26286	1.943	ug/l	96	
53) 1,3-Dichloropropane	8.24	76	42688	1.924	ug/l	95	
54) 2-Hexanone	8.36	43	60912	9.203	ug/l	99	
55) Dibromochloromethane	8.48	129	29939	1.865	ug/l	97	
56) 1,2-Dibromoethane	8.58	107	24662	1.923	ug/l	97	
58) Tetrachloroethene	8.22	164	40435	1.947	ug/l	98	
59) Chlorobenzene	9.12	112	93805	1.908	ug/l	99	
60) 1,1,1,2-Tetrachloroethane	9.21	131	33702	1.911	ug/l	99	
61) Pentachloroethane	11.10	117	23563	1.919	ug/l	94	
62) Hexachloroethane	12.14	117	23304	1.804	ug/l	100	
63) Ethyl Benzene	9.25	91	151254	1.878	ug/l	100	
64) m/p-Xylenes	9.37	106	120564	3.787	ug/l	99	
65) o-Xylene	9.78	106	59550	1.948	ug/l	98	
66) Styrene	9.79	104	99482	1.958	ug/l	97	
67) Bromoform	9.96	173	17625	1.869	ug/l	98	
69) Isopropylbenzene	10.16	105	157217	1.939	ug/l	99	
70) 1,1,2,2-Tetrachloroethane	10.46	83	32644	1.979	ug/l	97	
71) 1,2,3-Trichloropropane	10.49	75	23595m	1.925	ug/l		
72) Bromobenzene	10.45	156	41054	1.913	ug/l	99	
73) n-propylbenzene	10.58	120	42687	1.873	ug/l	99	
74) 2-Chlorotoluene	10.66	126	39806	1.969	ug/l	95	
75) 1,3,5-Trimethylbenzene	10.77	105	130617	1.912	ug/l	99	
76) 4-Chlorotoluene	10.77	126	37574	1.822	ug/l	92	
77) tert-Butylbenzene	11.10	119	129323	1.914	ug/l	99	
78) 1,2,4-Trimethylbenzene	11.14	105	131991	1.912	ug/l	98	
79) sec-Butylbenzene	11.32	105	174813	1.952	ug/l	99	
80) Nitrobenzene	12.88	77	1701m	5.680	ug/l		
81) p-Isopropyltoluene	11.47	119	142435	1.900	ug/l	99	
82) 1,3-Dichlorobenzene	11.41	146	80868	1.903	ug/l	99	
83) 1,4-Dichlorobenzene	11.50	146	81263	1.957	ug/l	98	
84) n-Butylbenzene	11.89	91	124579	1.823	ug/l	99	
85) 1,2-Dichlorobenzene	11.88	146	75963	1.895	ug/l	100	
86) 1,2-Dibromo-3-Chloropropan	12.66	75	4276	1.815	ug/l	98	
87) 1,2,4-Trichlorobenzene	13.50	180	47303	1.843	ug/l	98	
88) Hexachlorobutadiene	13.69	225	29819	1.844	ug/l	98	
89) Naphthalene	13.74	128	68443	1.772	ug/l	99	
90) 1,2,3-Trichlorobenzene	13.99	180	46632	1.934	ug/l	97	

(#) = 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: VU029840.D

Acq: 06 Mar 2019 15:09

Instrument :

MSVOA_U

ClientSampleId :

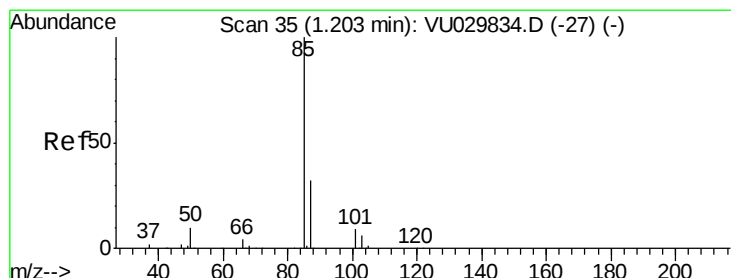
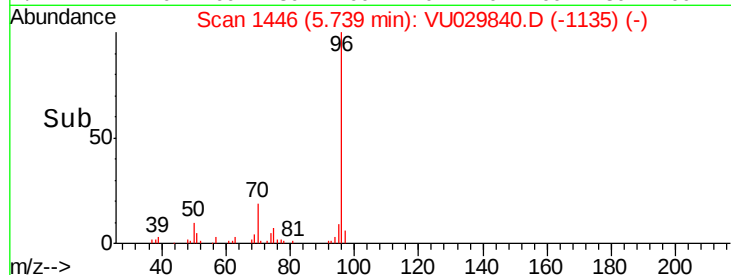
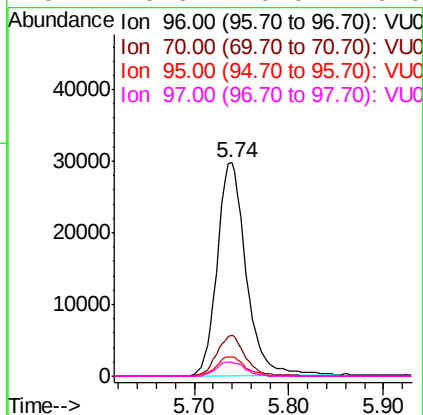
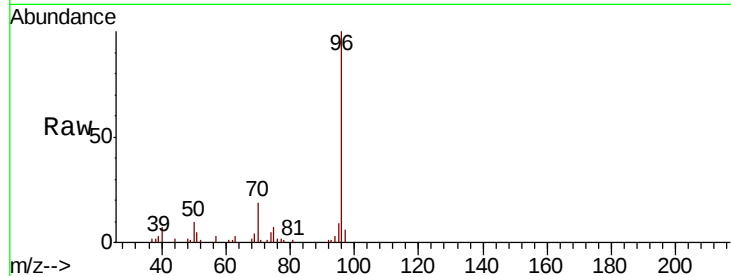
VU0307WBS01

Tgt Ion	Ratio	Lower	Upper
96	100		
70	18.9	14.4	21.6
95	9.0	7.0	10.6
97	6.6	0.0	0.0#

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#2

Dichlorodifluoromethane

Concen: 1.904 ug/l

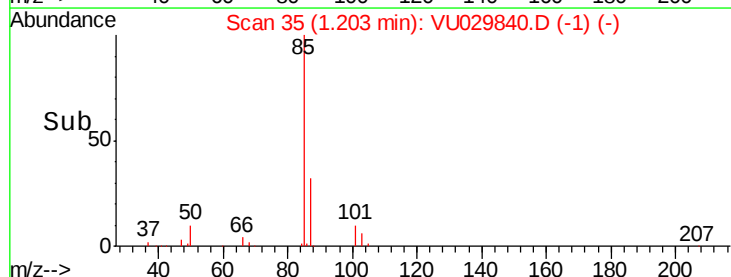
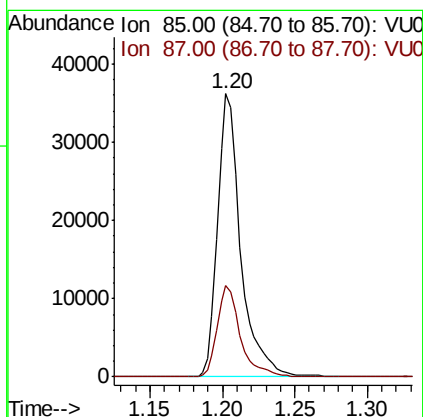
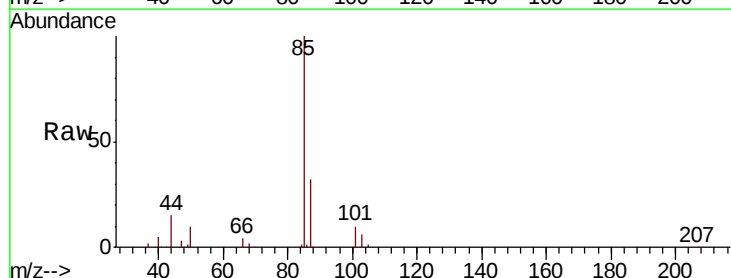
RT: 1.20 min Scan# 35

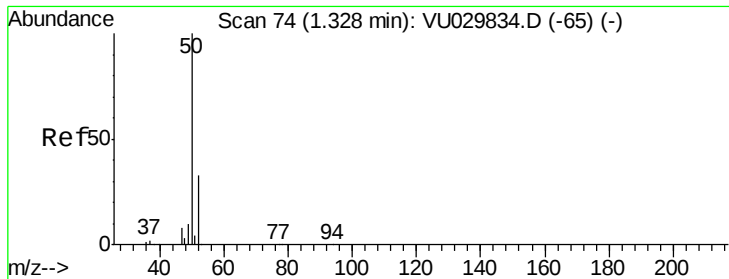
Delta R.T. -0.00 min

Lab File: VU029840.D

Acq: 06 Mar 2019 15:09

Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.5	16.2	48.6





#3

Chloromethane

Concen: 1.946 ug/l

RT: 1.33 min Scan# 74

Delta R.T. -0.00 min

Lab File: VU029840.D

Acq: 06 Mar 2019 15:09

Instrument :

MSVOA_U

ClientSampleId :

VU0307WBS01

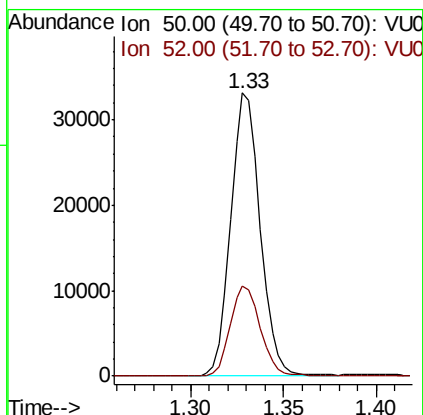
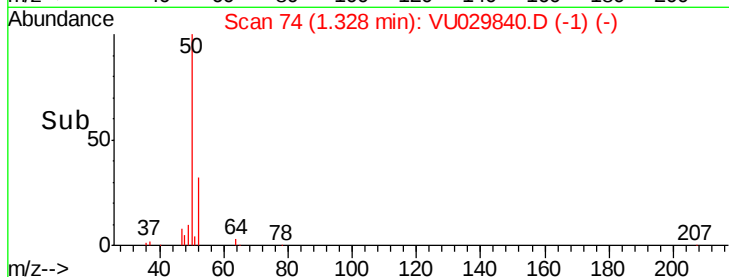
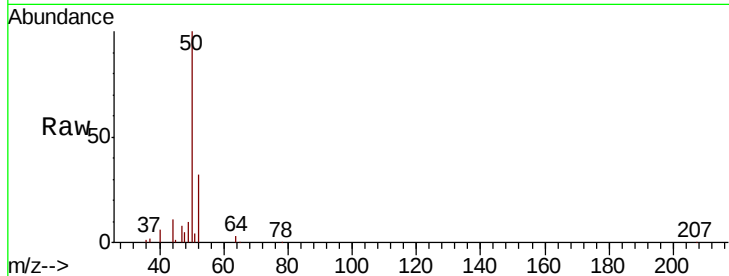
Tgt Ion: 50 Resp: 36554

Ion Ratio Lower Upper

50 100

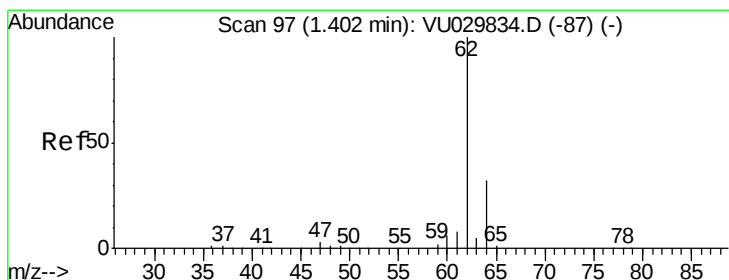
52 32.1 26.5 39.7

Manual Integrations
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3/11/2019 4:50:34 PM



#4

Vinyl Chloride

Concen: 1.961 ug/l

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU029840.D

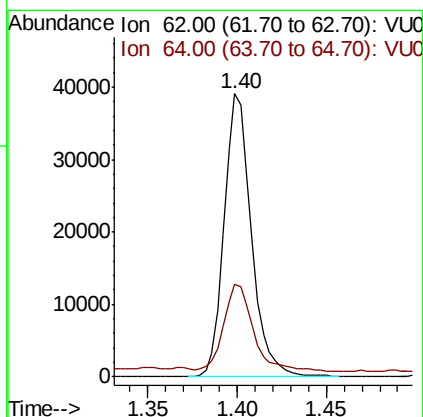
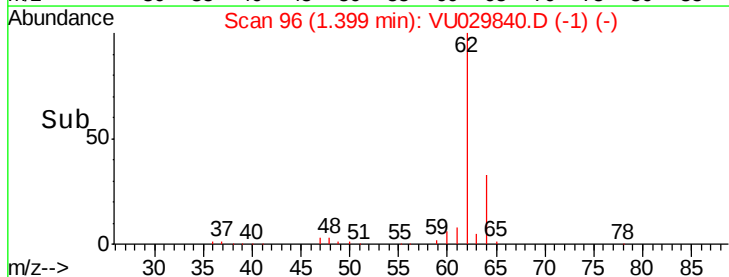
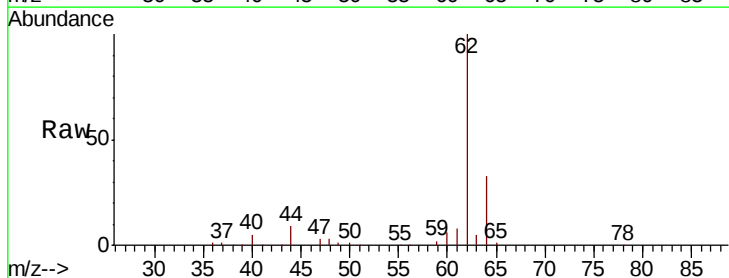
Acq: 06 Mar 2019 15:09

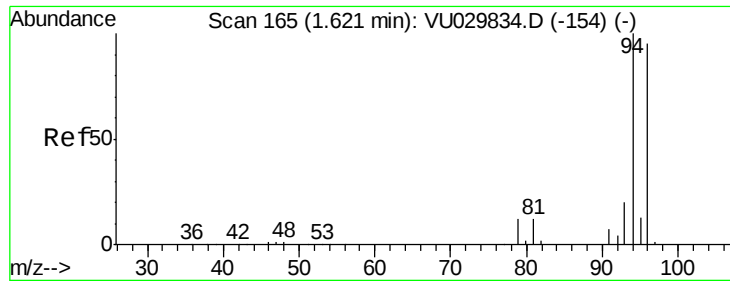
Tgt Ion: 62 Resp: 41441

Ion Ratio Lower Upper

62 100

64 30.8 25.7 38.5





#5

Bromomethane

Concen: 1.971 ug/l

RT: 1.63 min Scan# 167

Delta R.T. 0.01 min

Lab File: VU029840.D

Acq: 06 Mar 2019 15:09

Instrument :

MSVOA_U

ClientSampleId :

VU0307WBS01

Tgt Ion: 94 Resp: 28441

Ion Ratio Lower Upper

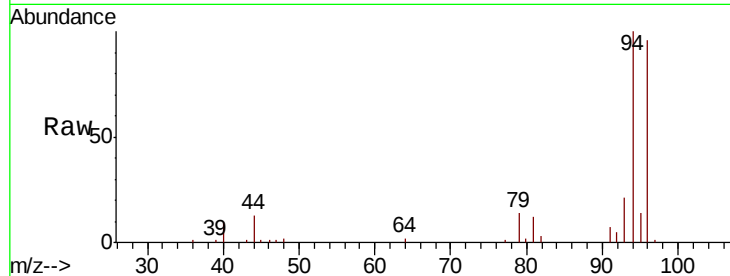
94 100

96 96.1 76.4 114.6

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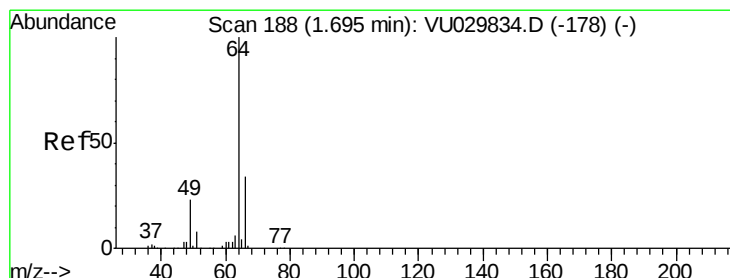
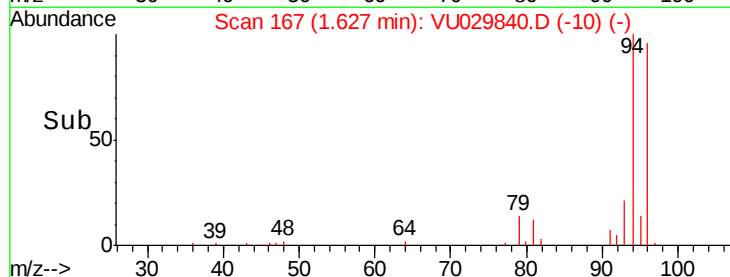
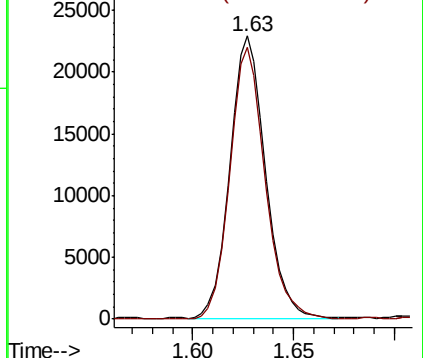
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Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0



#6

Chloroethane

Concen: 2.011 ug/l

RT: 1.70 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU029840.D

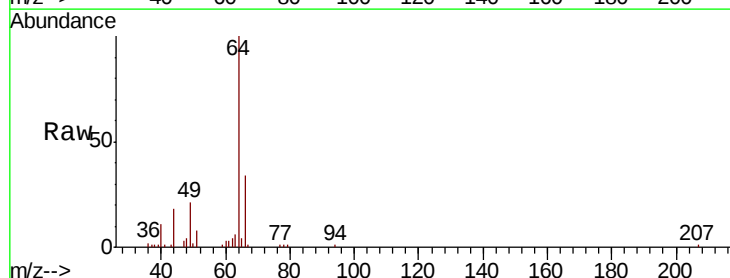
Acq: 06 Mar 2019 15:09

Tgt Ion: 64 Resp: 25474

Ion Ratio Lower Upper

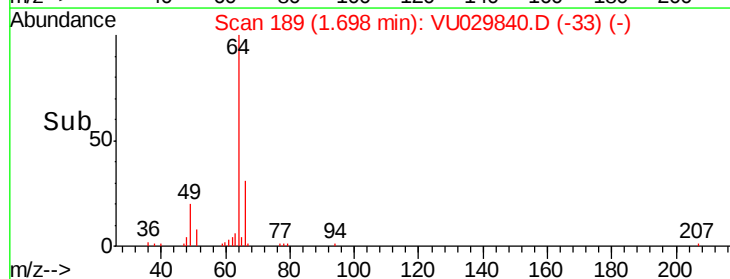
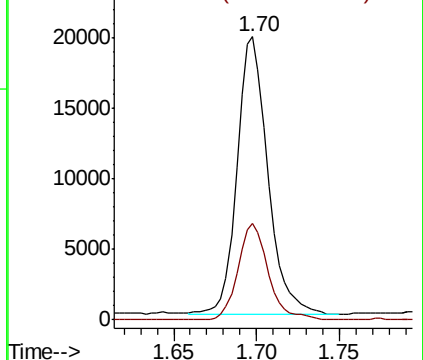
64 100

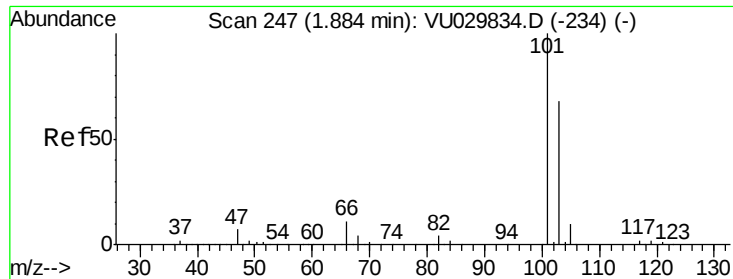
66 34.6 27.3 40.9



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0





#7

Trichlorofluoromethane

Concen: 1.904 ug/l

RT: 1.88 min Scan# 247

Delta R.T. -0.00 min

Lab File: VU029840.D

Acq: 06 Mar 2019 15:09

Instrument :

MSVOA_U

ClientSampleId :

VU0307WBS01

Tgt Ion:101 Resp: 54837

Ion Ratio Lower Upper

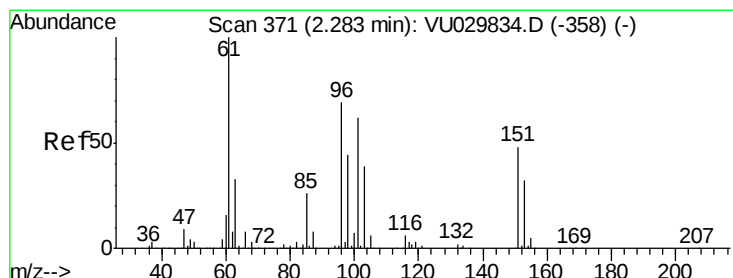
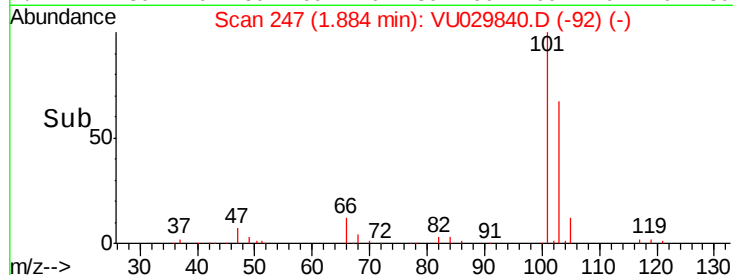
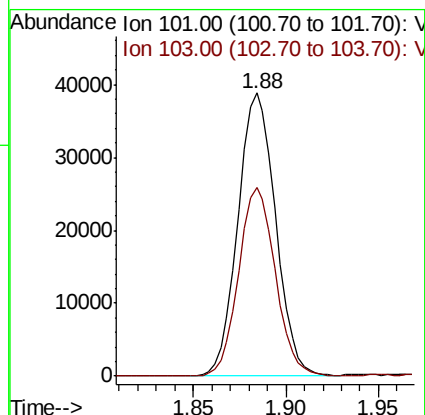
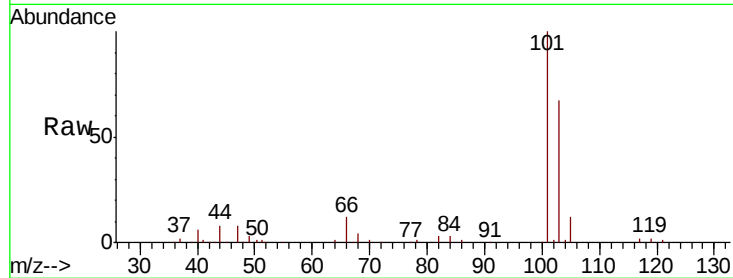
101 100

103 66.7 54.2 81.2

Manual Integrations
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#8

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

Concen: 1.917 ug/l

RT: 2.29 min Scan# 372

Delta R.T. 0.00 min

Lab File: VU029840.D

Acq: 06 Mar 2019 15:09

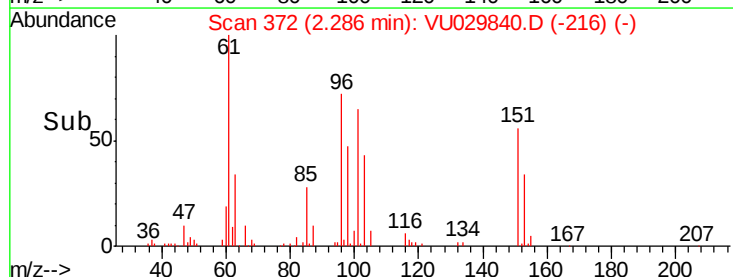
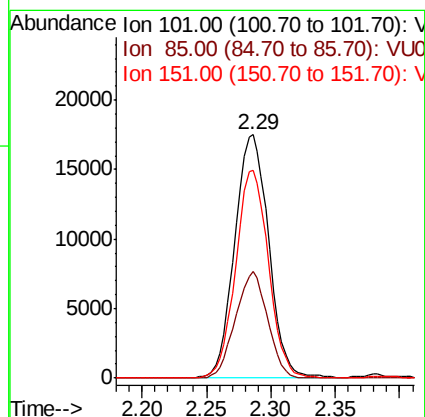
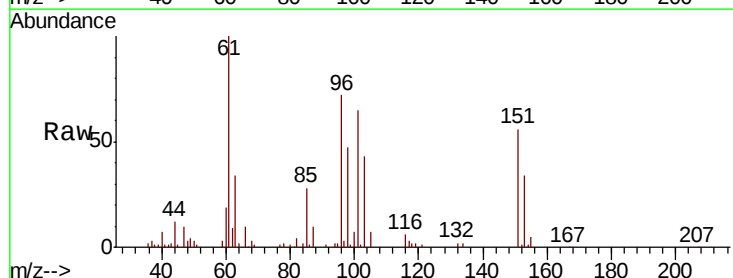
Tgt Ion:101 Resp: 32108

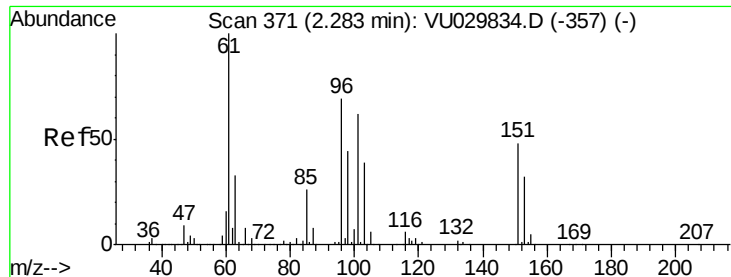
Ion Ratio Lower Upper

101 100

85 40.9 33.4 50.0

151 82.2 64.6 97.0





#9

1,1-Dichloroethene

Concen: 1.953 ug/l

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU029840.D

Acq: 06 Mar 2019 15:09

Instrument :

MSVOA_U

ClientSampleId :

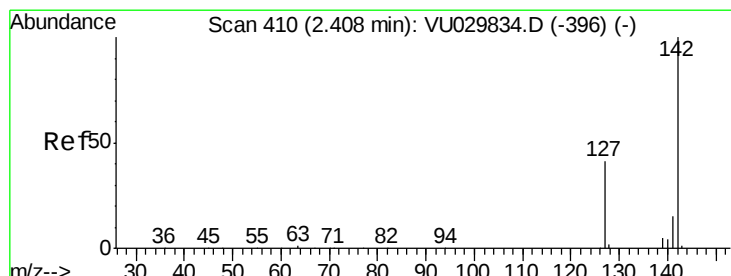
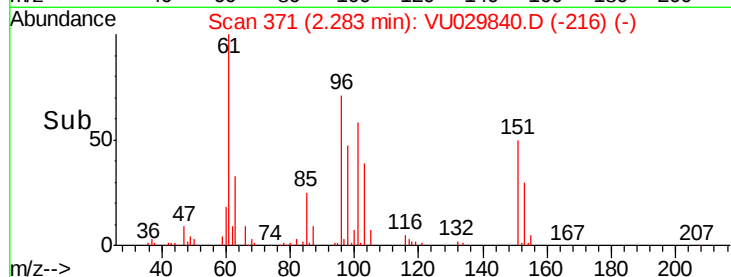
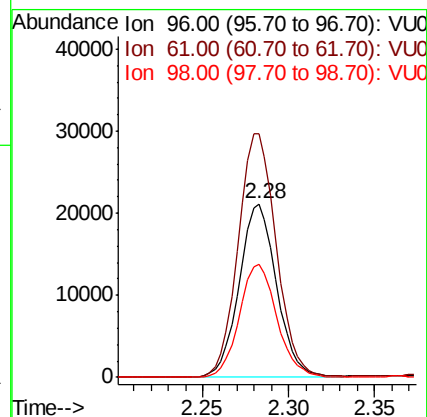
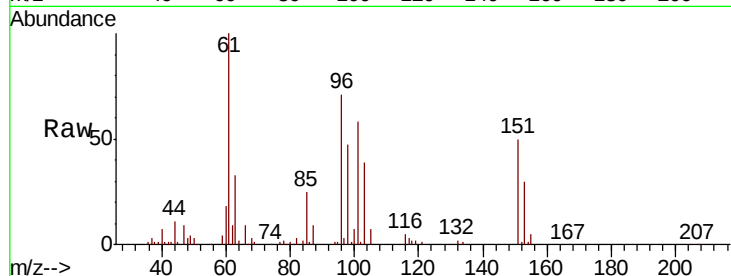
VU0307WBS01

Tgt Ion:	96	Resp:	32029
Ion	Ratio	Lower	Upper
96	100		
61	140.4	0.0	435.3
98	65.5	0.0	128.6

Manual Integrations
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3/11/2019 4:50:34 PM



#10

Iodomethane

Concen: 2.172 ug/l

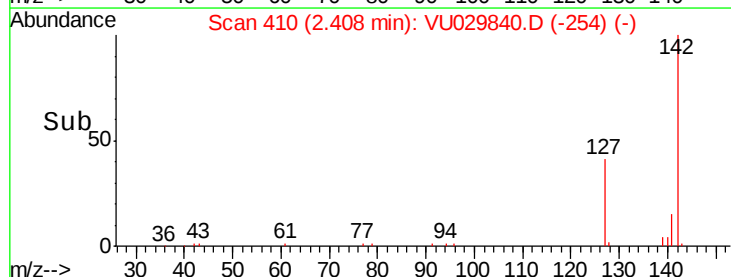
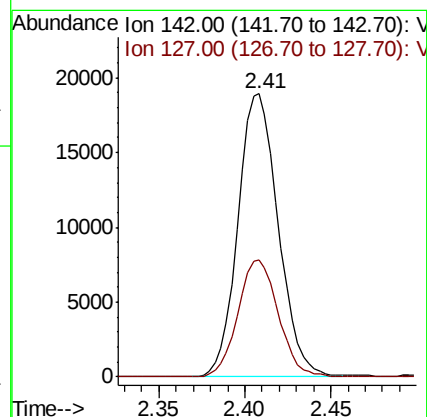
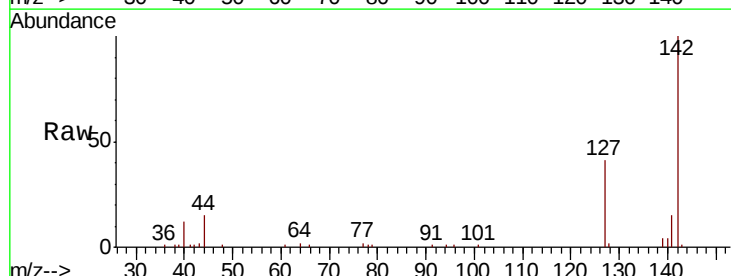
RT: 2.41 min Scan# 410

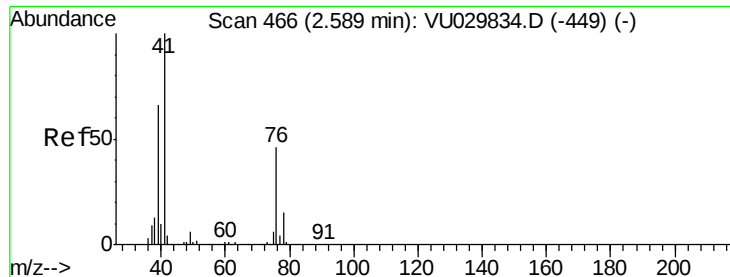
Delta R.T. 0.00 min

Lab File: VU029840.D

Acq: 06 Mar 2019 15:09

Tgt Ion:	142	Resp:	30934
Ion	Ratio	Lower	Upper
142	100		
127	41.3	32.3	48.5





#11
 Allyl Chloride
 Concen: 1.906 ug/l
 RT: 2.59 min Scan# 466
 Delta R.T. -0.00 min
 Lab File: VU029840.D
 Acq: 06 Mar 2019 15:09

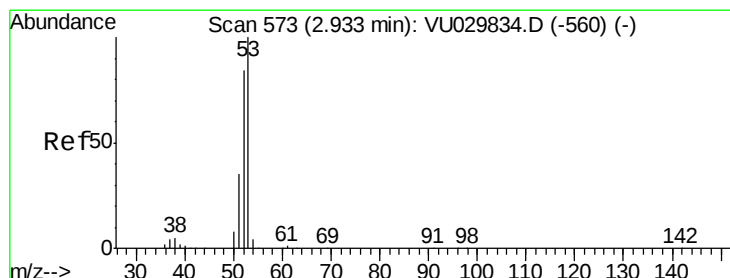
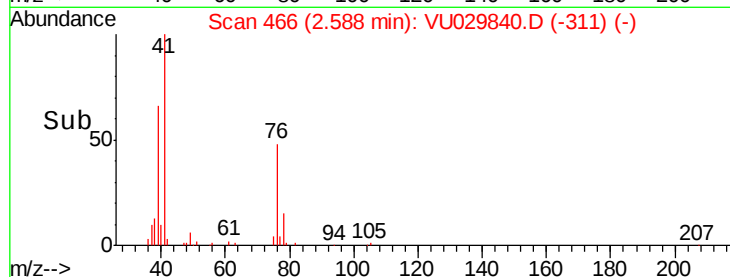
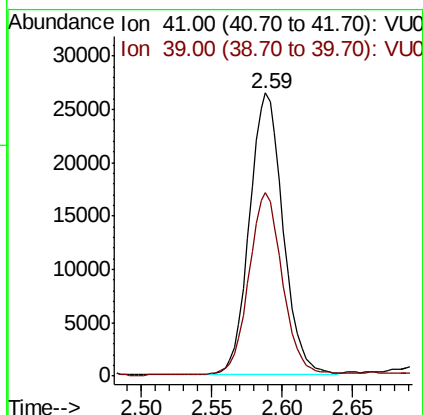
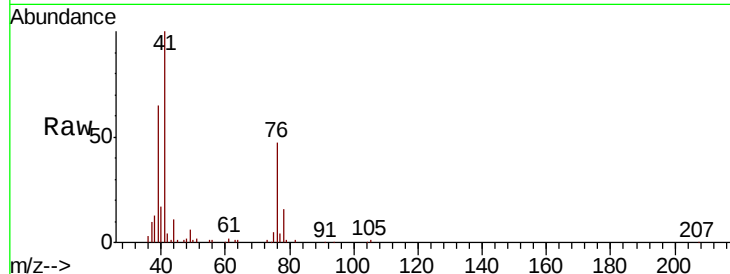
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0307WBS01

Tgt Ion: 41 Resp: 43926
 Ion Ratio Lower Upper
 41 100
 39 64.5 51.6 77.4

Manual Integrations
 APPROVED

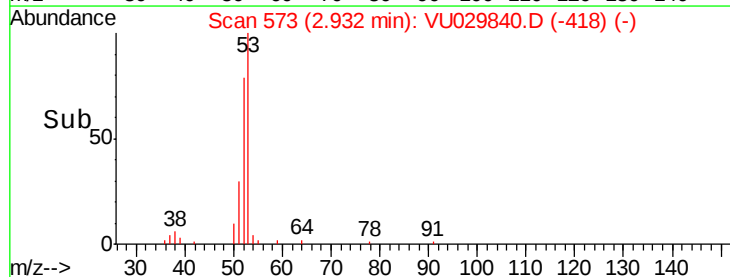
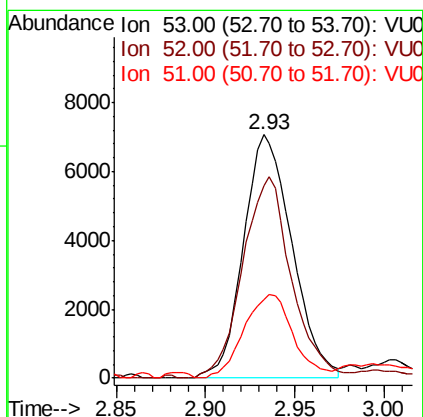
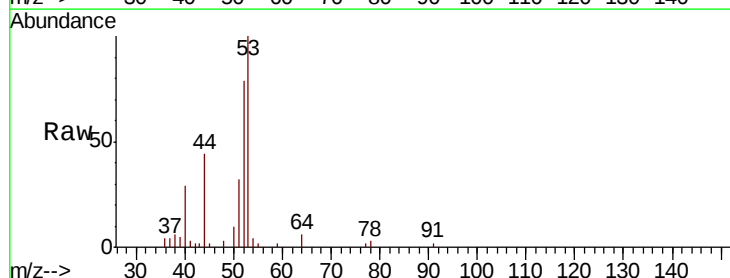
MMMadoda

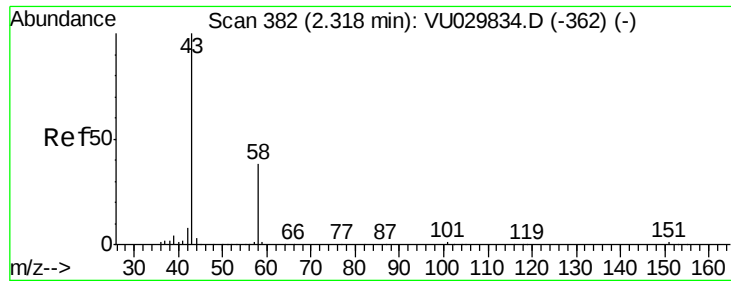
3/11/2019 4:50:34 PM



#12
 Acrylonitrile
 Concen: 3.752 ug/l
 RT: 2.93 min Scan# 573
 Delta R.T. -0.00 min
 Lab File: VU029840.D
 Acq: 06 Mar 2019 15:09

Tgt Ion: 53 Resp: 13413
 Ion Ratio Lower Upper
 53 100
 52 83.1 66.5 99.7
 51 35.0 28.6 42.8





#13
Acetone
Concen: 9.511 ug/l
RT: 2.32 min Scan# 383
Delta R.T. 0.00 min
Lab File: VU029840.D
Acq: 06 Mar 2019 15:09

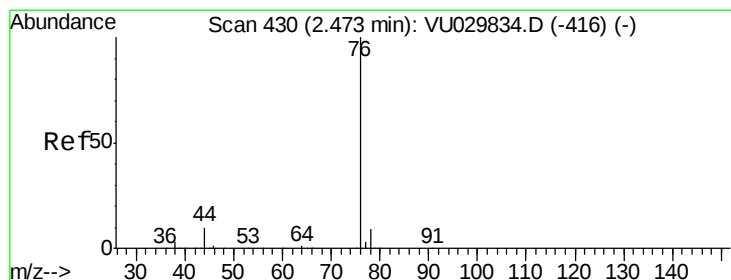
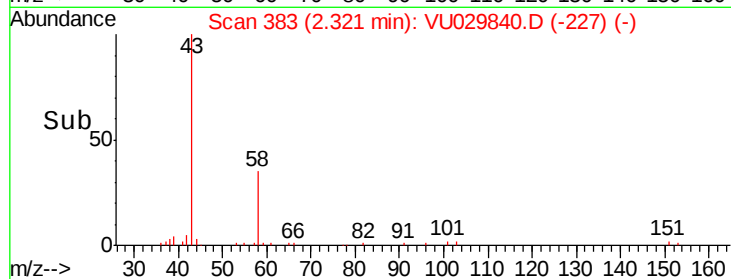
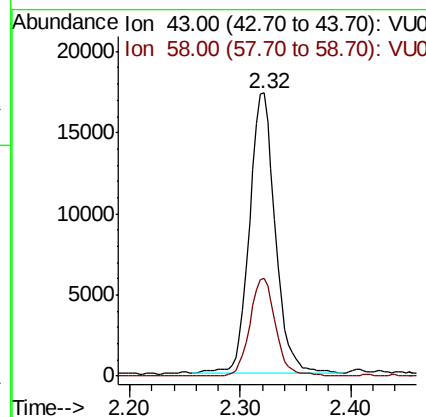
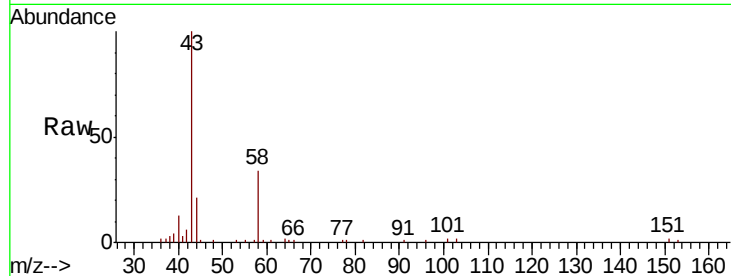
Instrument :
MSVOA_U
ClientSampleId :
VU0307WBS01

Tgt Ion: 43 Resp: 28164
Ion Ratio Lower Upper
43 100
58 34.7 30.2 45.2

Manual Integrations
APPROVED

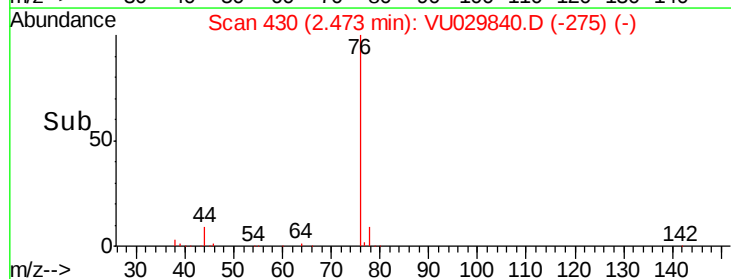
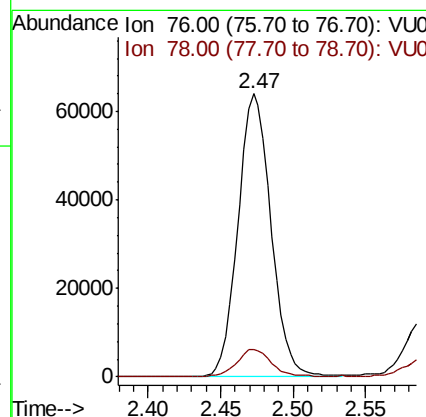
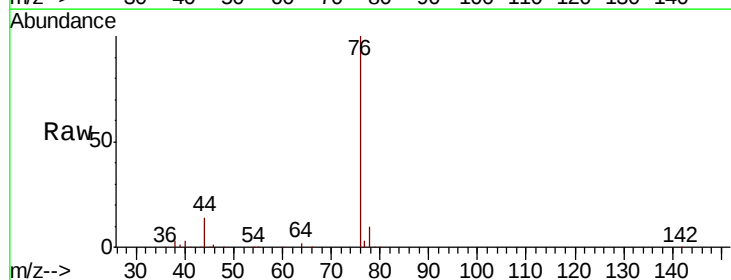
MMMadoda

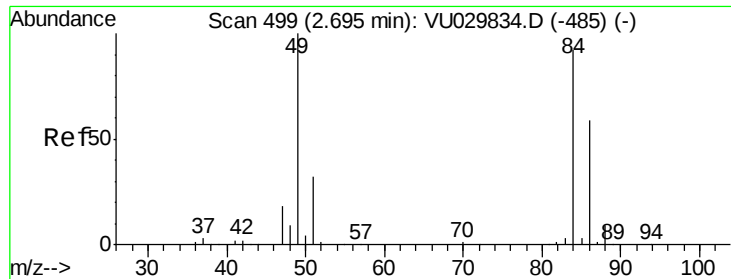
3/11/2019 4:50:34 PM



#14
Carbon Disulfide
Concen: 1.907 ug/l
RT: 2.47 min Scan# 430
Delta R.T. -0.00 min
Lab File: VU029840.D
Acq: 06 Mar 2019 15:09

Tgt Ion: 76 Resp: 101268
Ion Ratio Lower Upper
76 100
78 9.5 7.2 10.8





#15
Methylene Chloride
Concen: 1.945 ug/l
RT: 2.69 min Scan# 499
Delta R.T. -0.00 min
Lab File: VU029840.D
Acq: 06 Mar 2019 15:09

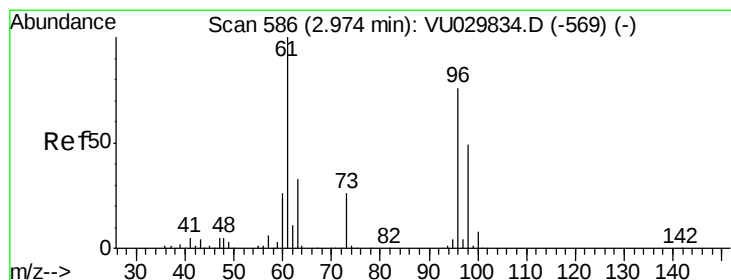
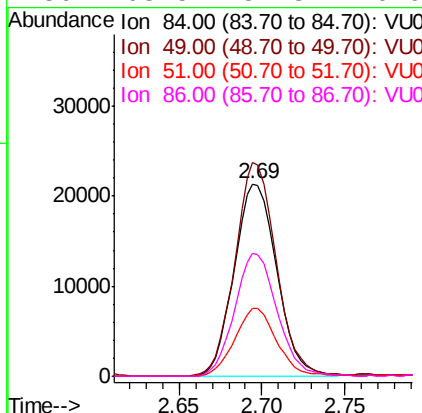
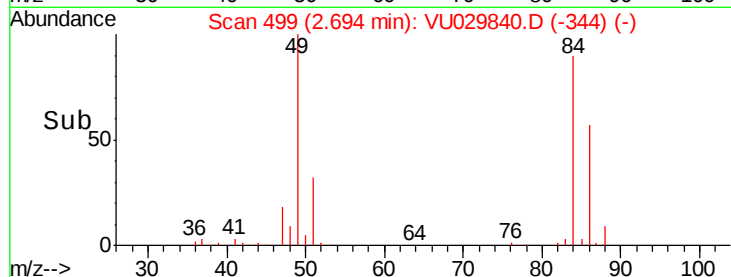
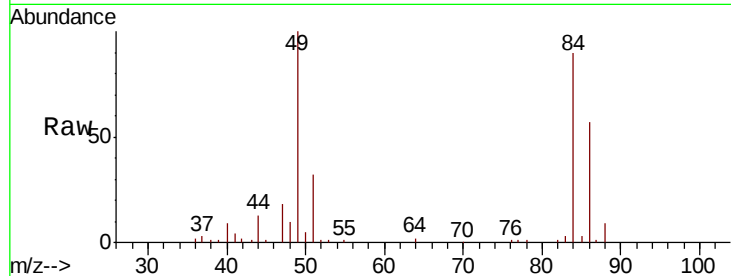
Instrument :
MSVOA_U
ClientSampled :
VU0307WBS01

Tgt Ion	Ratio	Lower	Upper
84	100		
49	110.9	87.2	130.8
51	35.0	0.0	69.0
86	63.5	51.3	76.9

Manual Integrations
APPROVED

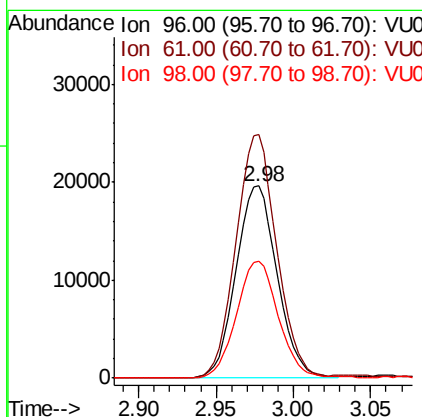
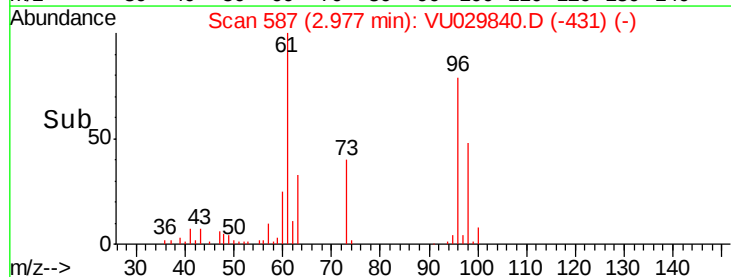
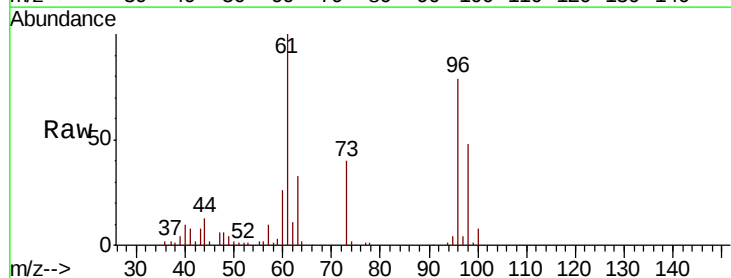
MMDadoda

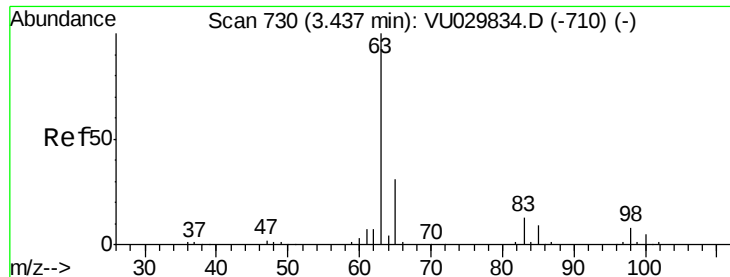
3/11/2019 4:50:34 PM



#16
trans-1,2-Dichloroethene
Concen: 1.965 ug/l
RT: 2.98 min Scan# 587
Delta R.T. 0.00 min
Lab File: VU029840.D
Acq: 06 Mar 2019 15:09

Tgt Ion	Ratio	Lower	Upper
96	100		
61	126.8	104.7	157.1
98	61.0	50.9	76.3





#17
 1,1-Dichloroethane
 Concen: 1.893 ug/l
 RT: 3.44 min Scan# 730
 Delta R.T. -0.00 min
 Lab File: VU029840.D
 Acq: 06 Mar 2019 15:09

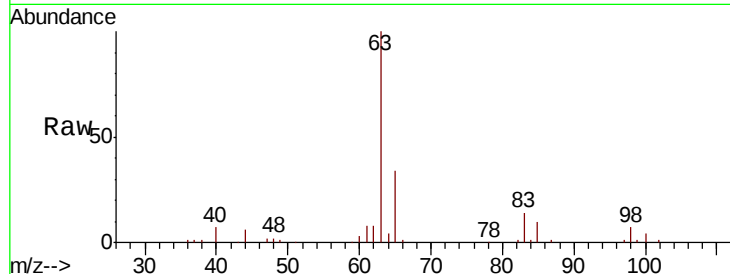
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0307WBS01

Tgt Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.8	11.4
100	3.9	2.4	7.1

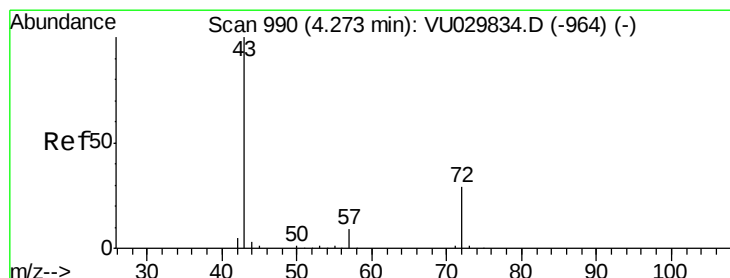
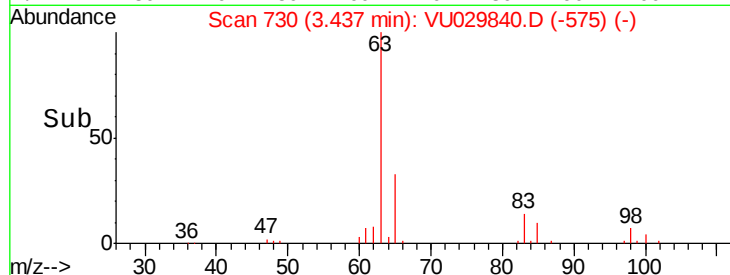
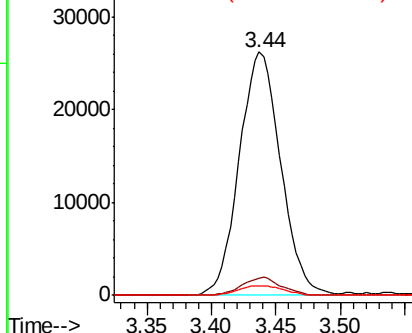
Manual Integrations
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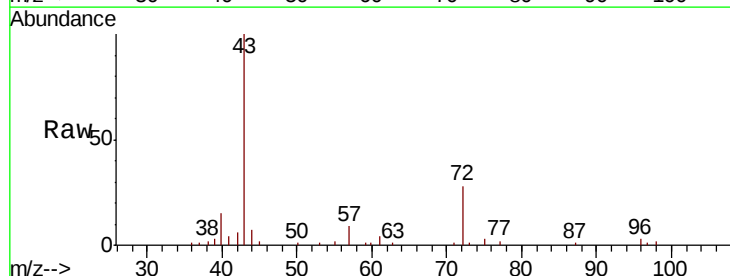


Abundance Ion 63.00 (62.70 to 63.70): VU029840.D (-575) (-)
 Ion 98.00 (97.70 to 98.70): VU029840.D (-575) (-)
 Ion 100.00 (99.70 to 100.70): VU029840.D (-575) (-)

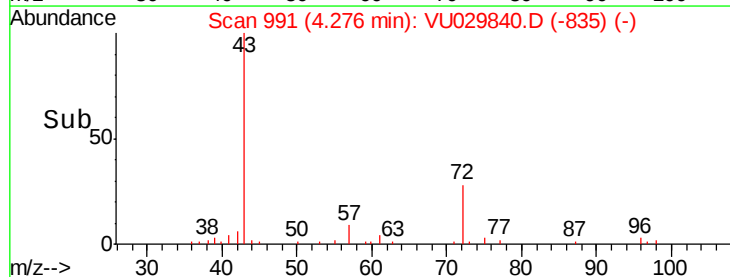
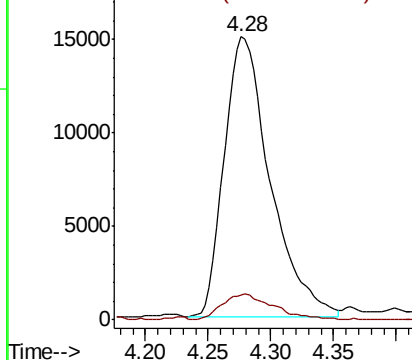


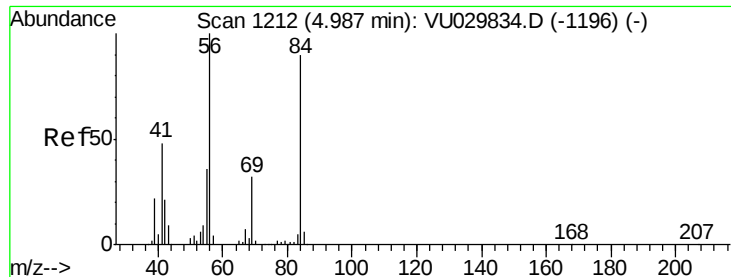
#18
 2-Butanone
 Concen: 9.490 ug/l
 RT: 4.28 min Scan# 991
 Delta R.T. 0.00 min
 Lab File: VU029840.D
 Acq: 06 Mar 2019 15:09

Tgt Ion	Ratio	Lower	Upper
43	100		
57	8.8	0.0	18.6



Abundance Ion 43.00 (42.70 to 43.70): VU029840.D (-835) (-)
 Ion 57.00 (56.70 to 57.70): VU029840.D (-835) (-)





#19
Cyclohexane
Concen: 1.962 ug/l m
RT: 4.98 min Scan# 1211
Delta R.T. -0.00 min
Lab File: VU029840.D
Acq: 06 Mar 2019 15:09

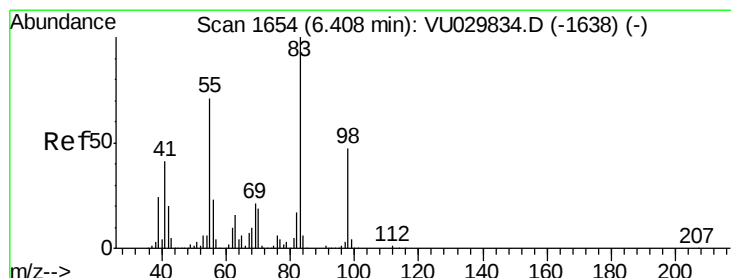
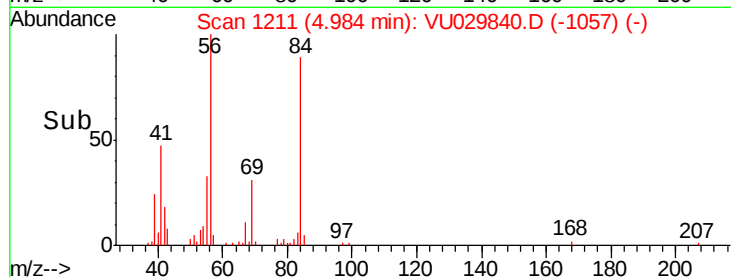
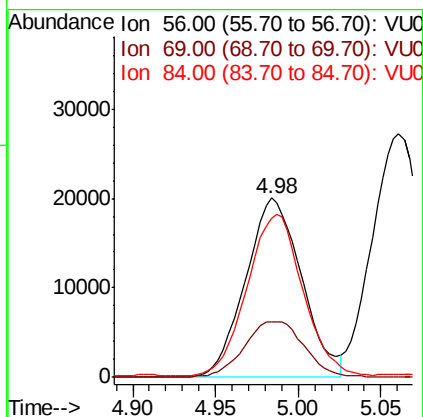
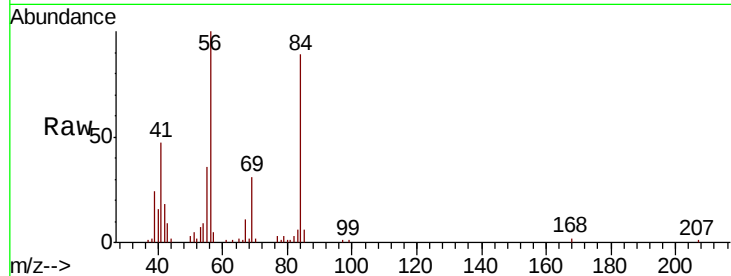
Instrument :
MSVOA_U
ClientSampleId :
VU0307WBS01

Tgt Ion	Ratio	Lower	Upper
56	100		
69	33.3	29.4	44.2
84	89.0	84.6	127.0

Manual Integrations
APPROVED

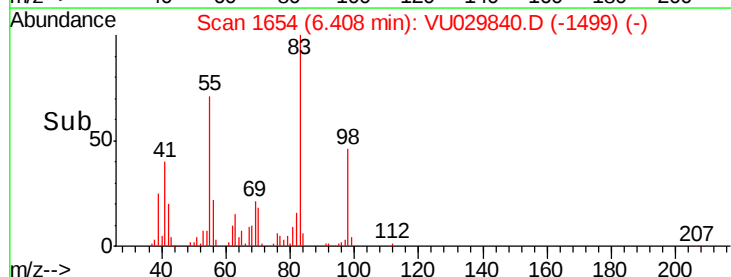
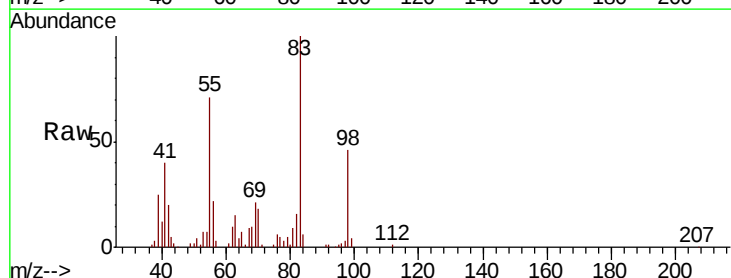
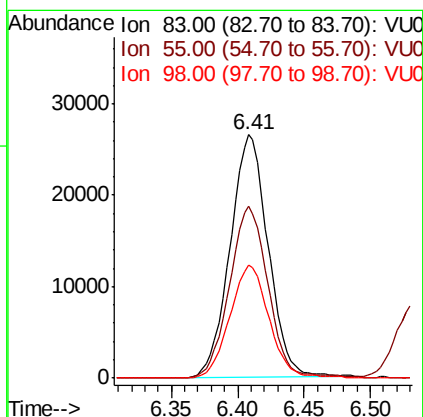
MM Dadoda

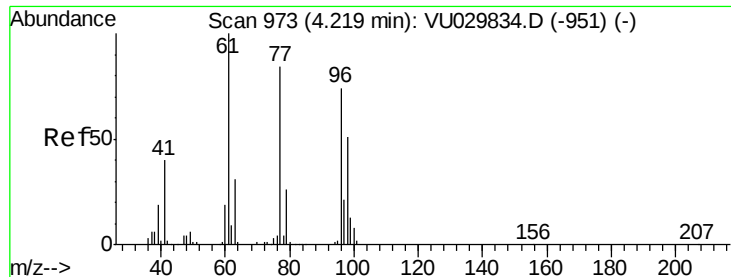
3/11/2019 4:50:34 PM



#20
Methylcyclohexane
Concen: 1.878 ug/l
RT: 6.41 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VU029840.D
Acq: 06 Mar 2019 15:09

Tgt Ion	Ratio	Lower	Upper
83	100		
55	71.3	55.9	83.9
98	46.2	37.0	55.4





#21

2,2-Dichloropropane

Concen: 1.879 ug/l

RT: 4.22 min Scan# 973

Delta R.T. -0.00 min

Lab File: VU029840.D

Acq: 06 Mar 2019 15:09

Instrument :

MSVOA_U

ClientSampleId :

VU0307WBS01

Tgt Ion: 77 Resp: 47601

Ion Ratio Lower Upper

77 100

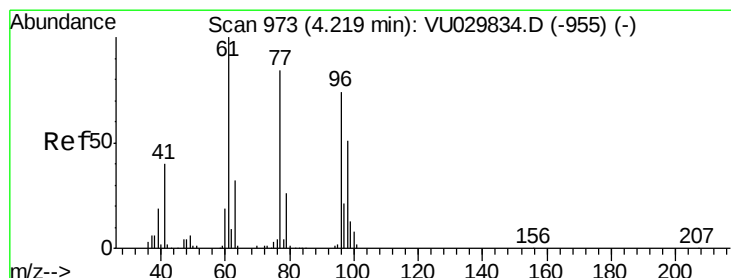
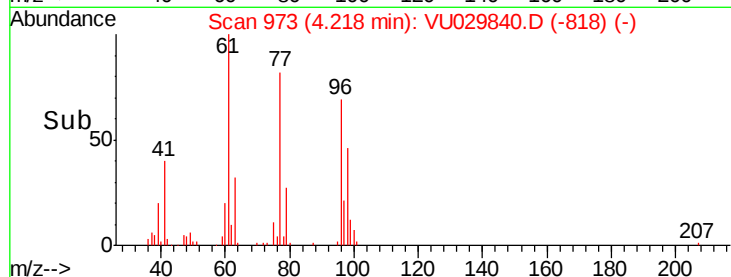
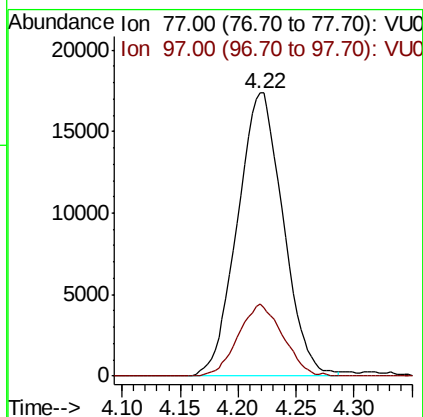
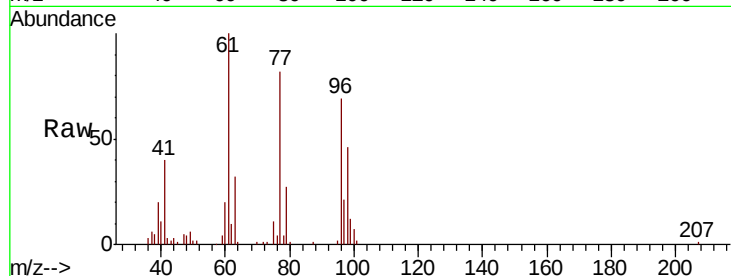
97 24.8 20.2 30.2

Manual Integrations

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MMDadoda

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#22

cis-1,2-Dichloroethene

Concen: 1.958 ug/l

RT: 4.22 min Scan# 974

Delta R.T. 0.00 min

Lab File: VU029840.D

Acq: 06 Mar 2019 15:09

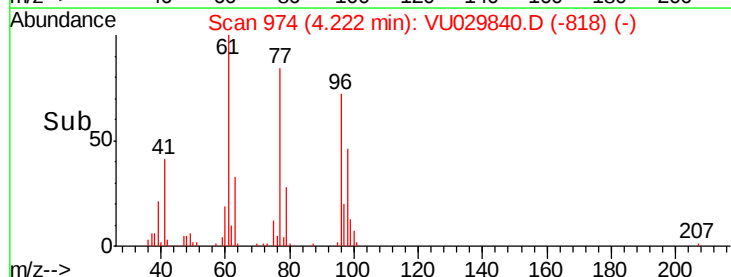
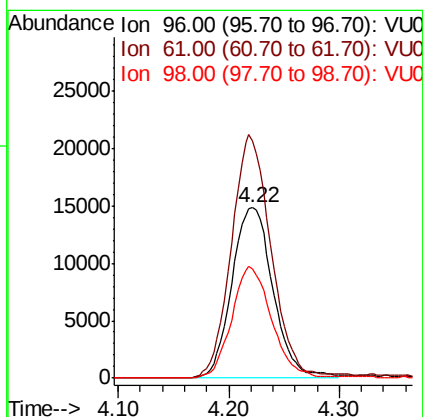
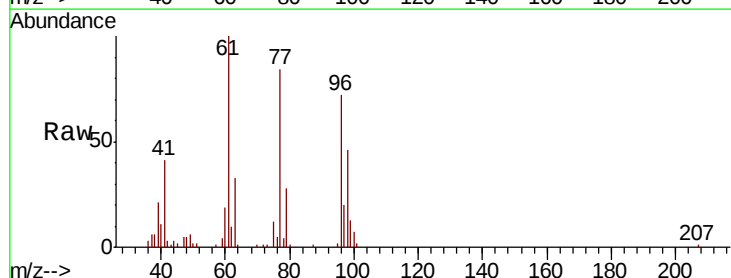
Tgt Ion: 96 Resp: 38441

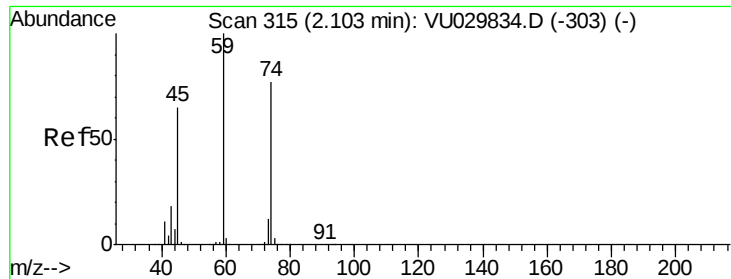
Ion Ratio Lower Upper

96 100

61 138.7 0.0 339.0

98 63.5 33.1 99.5





#23
Diethyl Ether
Concen: 1.937 ug/l
RT: 2.10 min Scan# 315
Delta R.T. -0.00 min
Lab File: VU029840.D
Acq: 06 Mar 2019 15:09

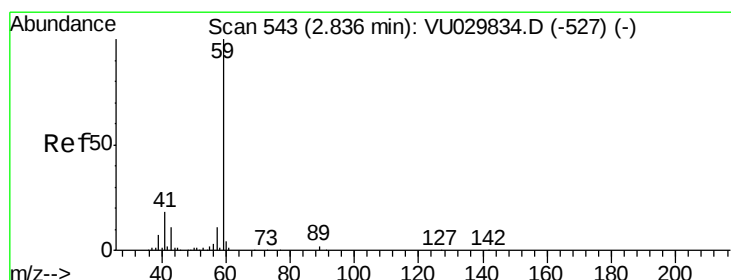
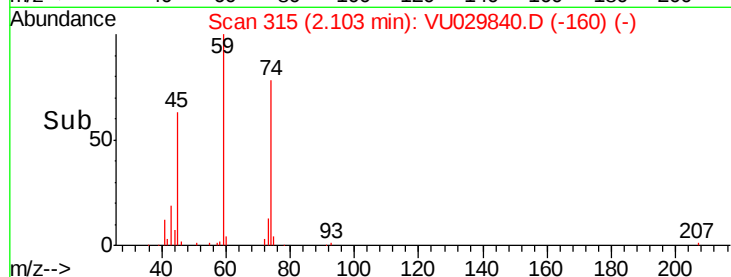
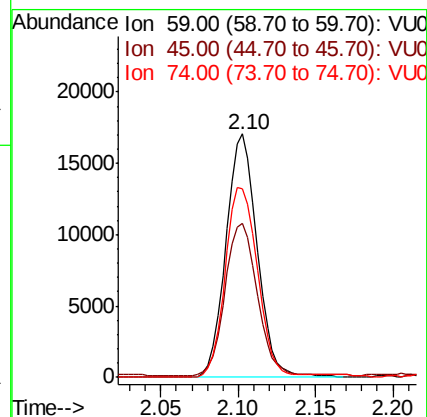
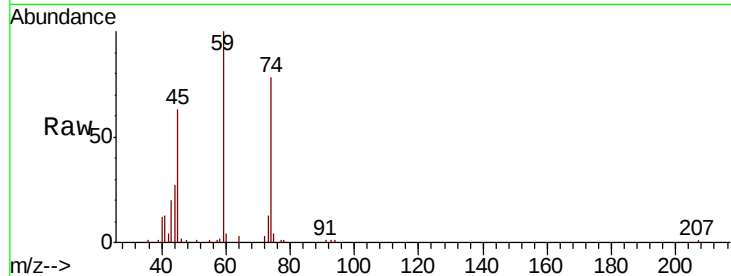
Instrument :
MSVOA_U
ClientSampleId :
VU0307WBS01

Tgt Ion	Ratio	Lower	Upper
59	100		
45	64.9	52.7	79.1
74	81.2	61.8	92.6

Manual Integrations
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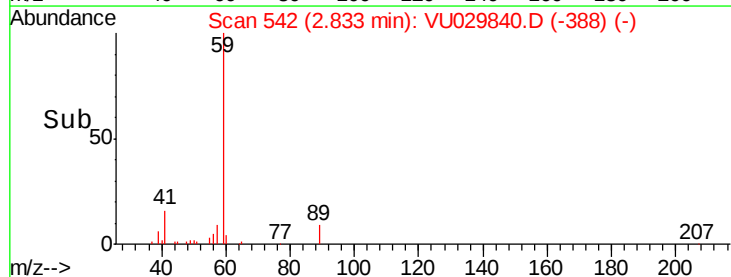
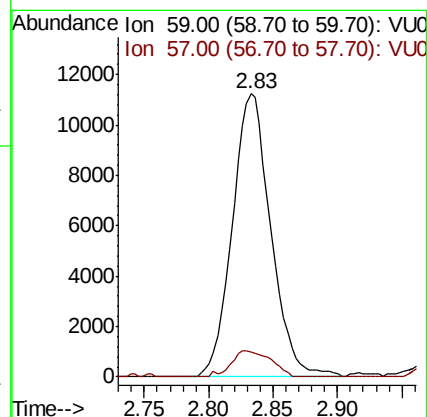
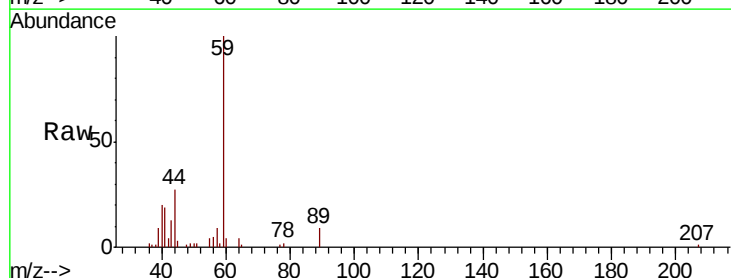
MMMadoda

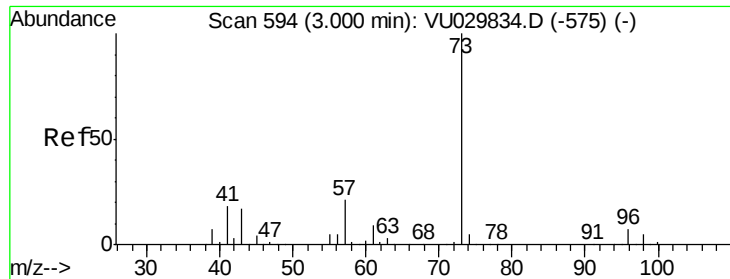
3/11/2019 4:50:34 PM



#24
tert-Butyl Alcohol
Concen: 18.377 ug/l
RT: 2.83 min Scan# 542
Delta R.T. -0.00 min
Lab File: VU029840.D
Acq: 06 Mar 2019 15:09

Tgt Ion	Ratio	Lower	Upper
59	100		
57	9.4	8.5	12.7





#25

Methyl tert-Butyl Ether
 Concen: 1.954 ug/l
 RT: 3.00 min Scan# 594
 Delta R.T. -0.00 min
 Lab File: VU029840.D
 Acq: 06 Mar 2019 15:09

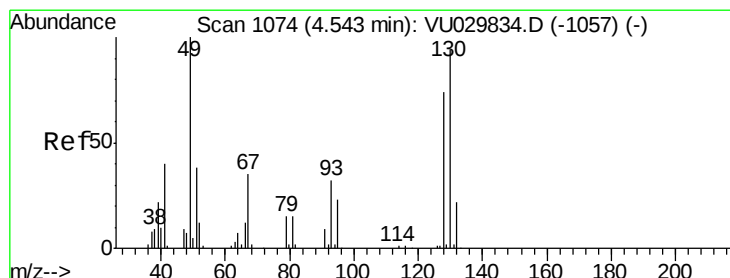
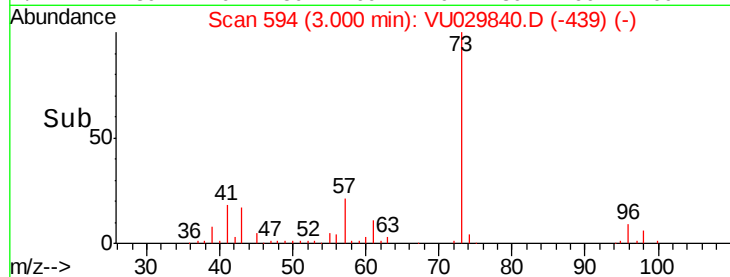
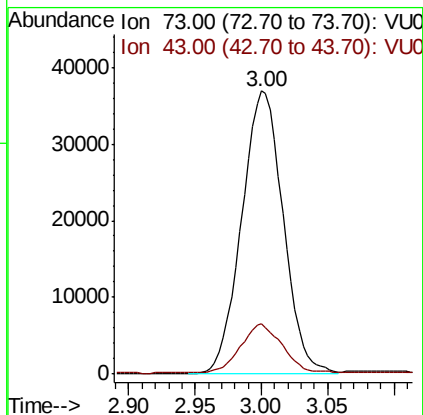
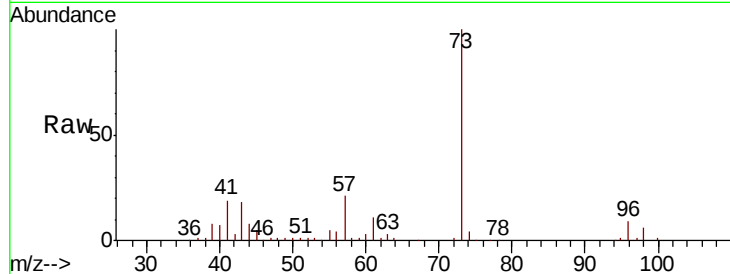
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0307WBS01

Tgt Ion	Ratio	Lower	Upper
73	100		
43	17.1	13.1	19.7

Manual Integrations
 APPROVED

MMDadoda

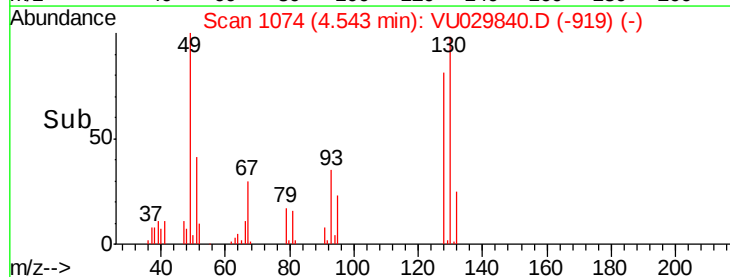
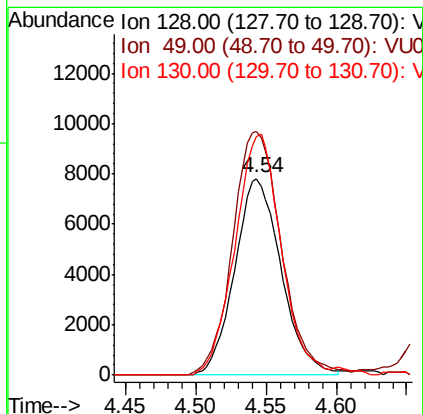
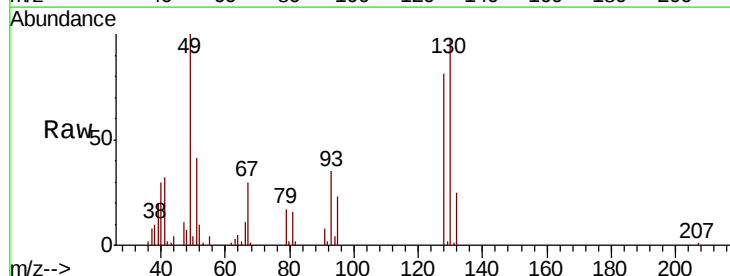
3/11/2019 4:50:34 PM

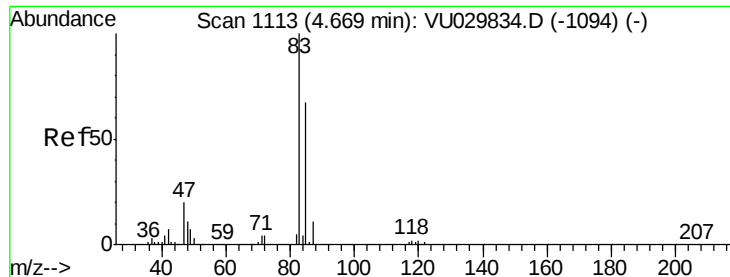


#26

Bromochloromethane
 Concen: 2.072 ug/l
 RT: 4.54 min Scan# 1074
 Delta R.T. -0.00 min
 Lab File: VU029840.D
 Acq: 06 Mar 2019 15:09

Tgt Ion	Ratio	Lower	Upper
128	100		
49	129.6	0.0	270.6
130	121.0	104.2	156.4





#27
Chloroform
Concen: 1.942 ug/l
RT: 4.67 min Scan# 1114
Delta R.T. 0.00 min
Lab File: VU029840.D
Acq: 06 Mar 2019 15:09

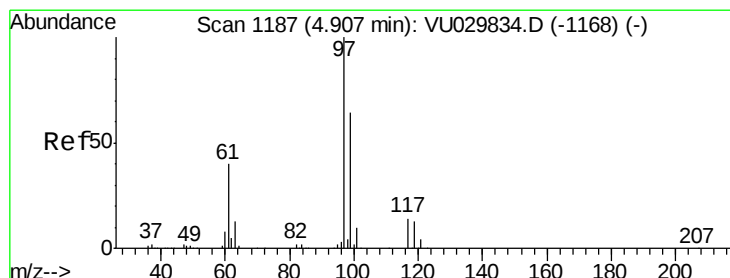
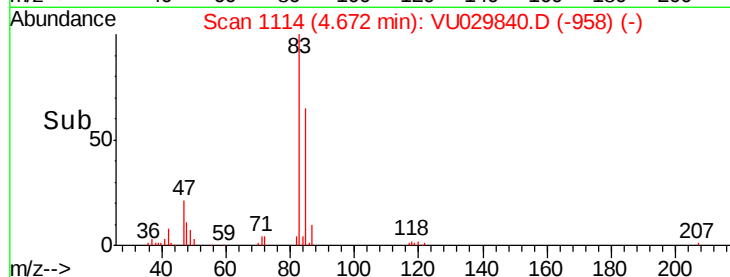
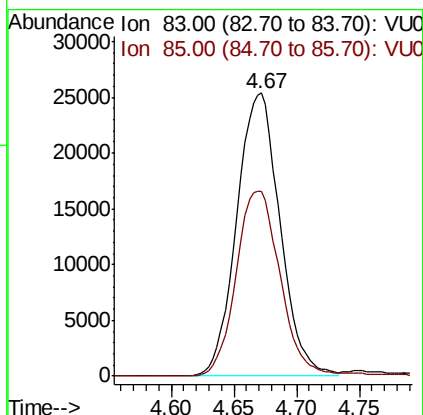
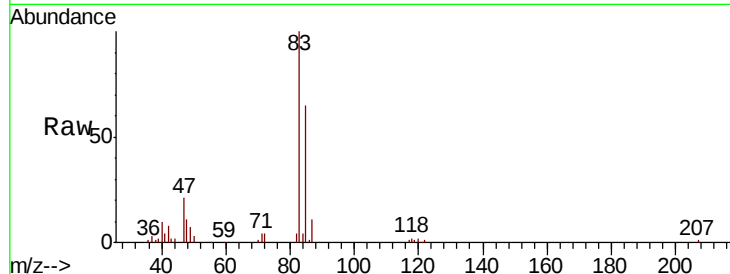
Instrument :
MSVOA_U
ClientSampleId :
VU0307WBS01

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.1	0.0	133.2

Manual Integrations
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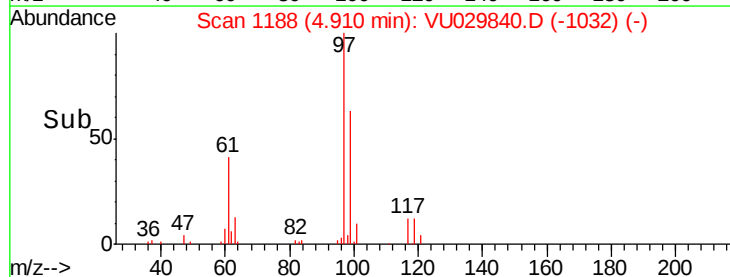
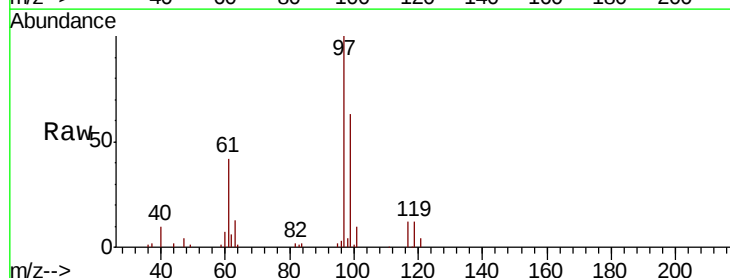
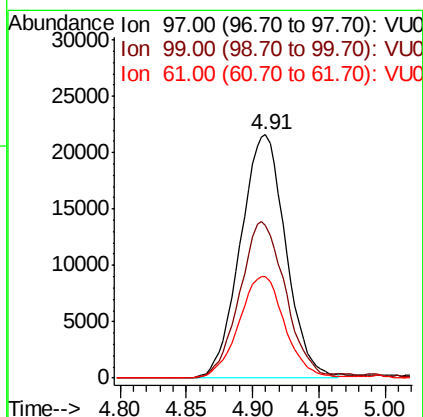
MMDadoda

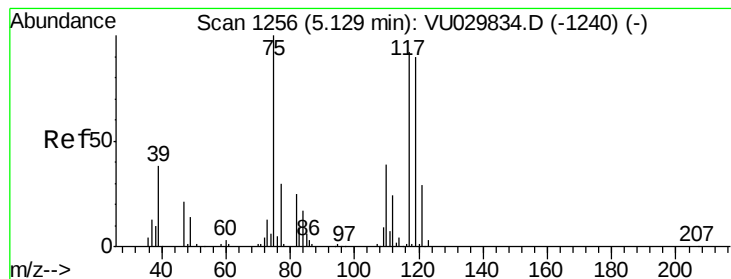
3/11/2019 4:50:34 PM



#28
1,1,1-Trichloroethane
Concen: 1.934 ug/l
RT: 4.91 min Scan# 1188
Delta R.T. 0.00 min
Lab File: VU029840.D
Acq: 06 Mar 2019 15:09

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.7	31.9	95.9
61	42.6	20.4	61.3





#29

1,1-Dichloropropene

Concen: 1.862 ug/l

RT: 5.13 min Scan# 1256

Delta R.T. -0.00 min

Lab File: VU029840.D

Acq: 06 Mar 2019 15:09

Instrument :

MSVOA_U

ClientSampleId :

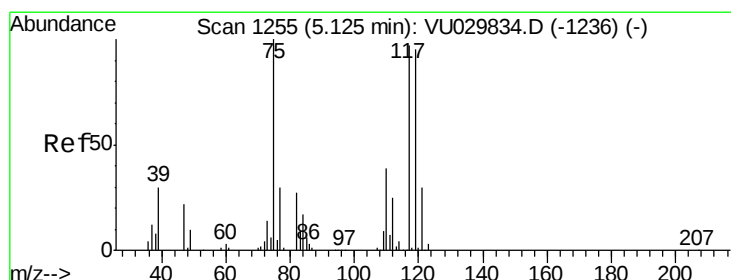
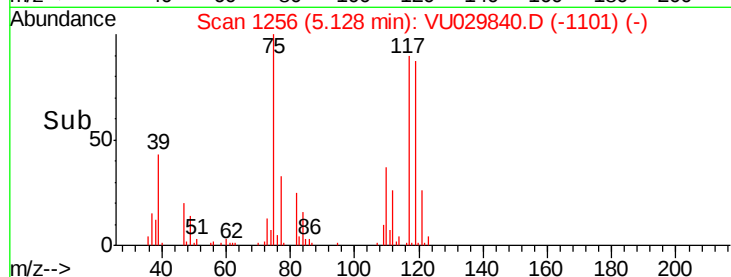
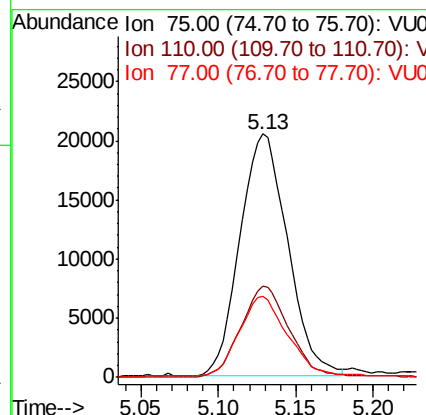
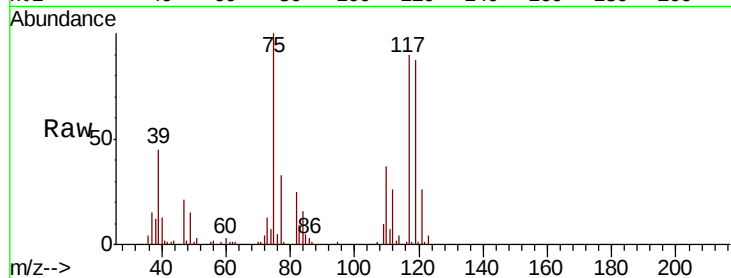
VU0307WBS01

Tgt Ion:	75	Resp:	44034
Ion	Ratio	Lower	Upper
75	100		
110	38.1	19.1	57.5
77	32.9	23.9	35.9

Manual Integrations
APPROVED

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3/11/2019 4:50:34 PM



#30

Carbon Tetrachloride

Concen: 1.846 ug/l

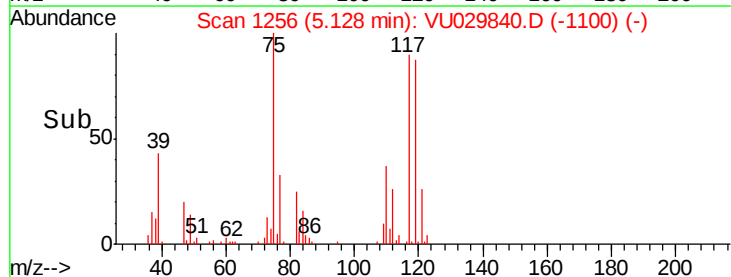
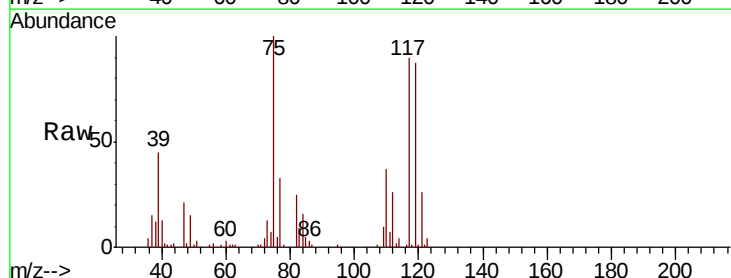
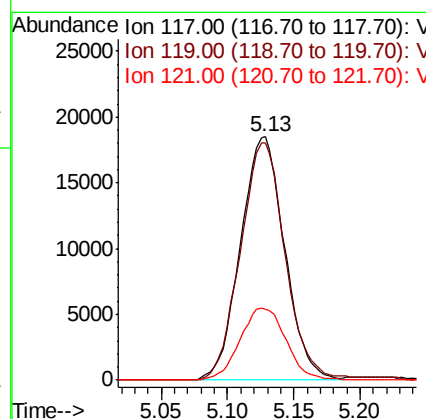
RT: 5.13 min Scan# 1256

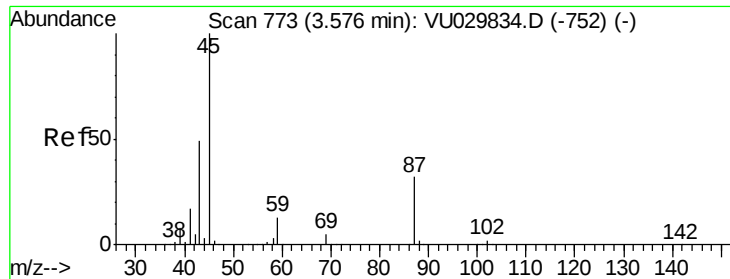
Delta R.T. 0.00 min

Lab File: VU029840.D

Acq: 06 Mar 2019 15:09

Tgt Ion:	117	Resp:	42844
Ion	Ratio	Lower	Upper
117	100		
119	97.2	78.4	117.6
121	29.3	25.0	37.4





#31

Isopropyl Ether

Concen: 1.979 ug/l

RT: 3.57 min Scan# 772

Delta R.T. -0.00 min

Lab File: VU029840.D

Acq: 06 Mar 2019 15:09

Instrument :

MSVOA_U

ClientSampleId :

VU0307WBS01

Tgt Ion: 45 Resp: 84583

Ion Ratio Lower Upper

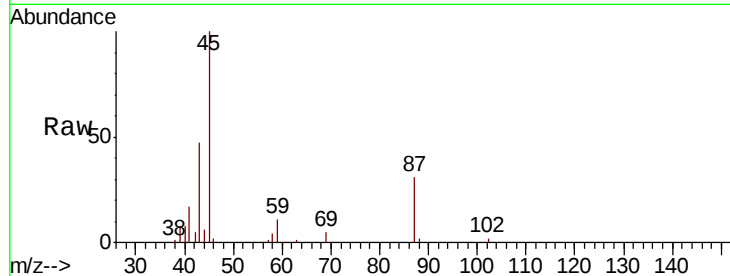
45 100

43 49.5 24.3 72.9

Manual Integrations
APPROVED

MMDadoda

3/11/2019 4:50:34 PM



Abundance Ion 45.00 (44.70 to 45.70): VU029834.D (-752) (-)

Ion 43.00 (42.70 to 43.70): VU029834.D (-752) (-)

3.57

40000

30000

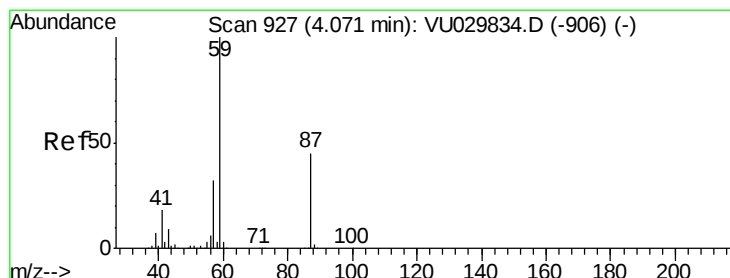
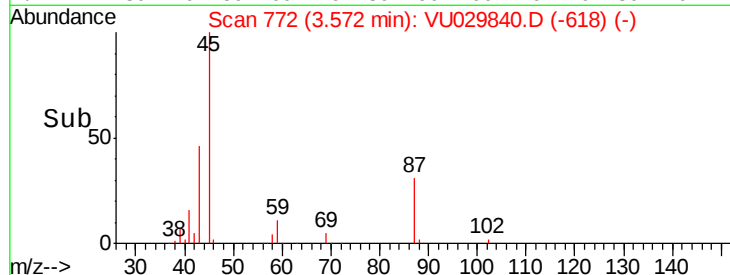
20000

10000

0

Time-->

3.50 3.55 3.60 3.65



#32

Ethyl-t-butyl ether

Concen: 1.931 ug/l

RT: 4.07 min Scan# 927

Delta R.T. -0.00 min

Lab File: VU029840.D

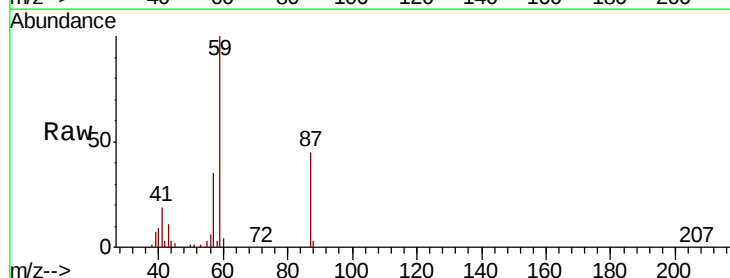
Acq: 06 Mar 2019 15:09

Tgt Ion: 59 Resp: 80211

Ion Ratio Lower Upper

59 100

87 45.9 36.2 54.4



Abundance Ion 59.00 (58.70 to 59.70): VU029834.D (-906) (-)

Ion 87.00 (86.70 to 87.70): VU029834.D (-906) (-)

4.07

30000

25000

20000

15000

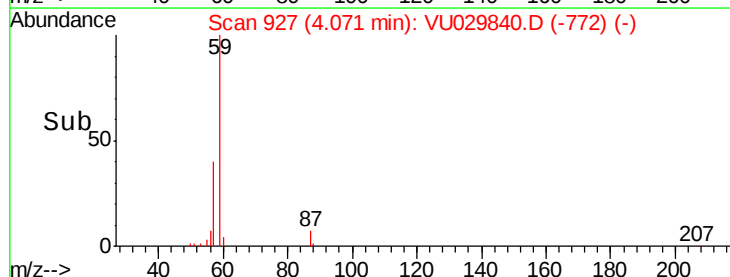
10000

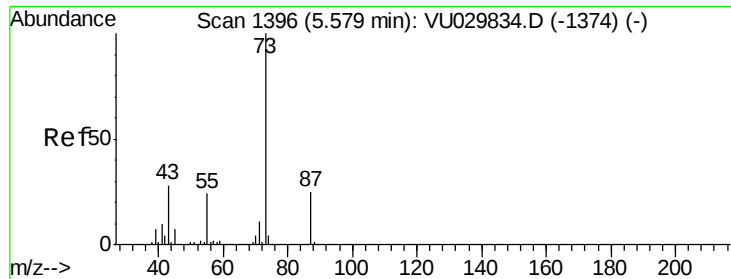
5000

0

Time-->

4.00 4.10 4.20





#33
Tert-Amyl methyl ether
Concen: 1.930 ug/l
RT: 5.58 min Scan# 1396
Delta R.T. -0.00 min
Lab File: VU029840.D
Acq: 06 Mar 2019 15:09

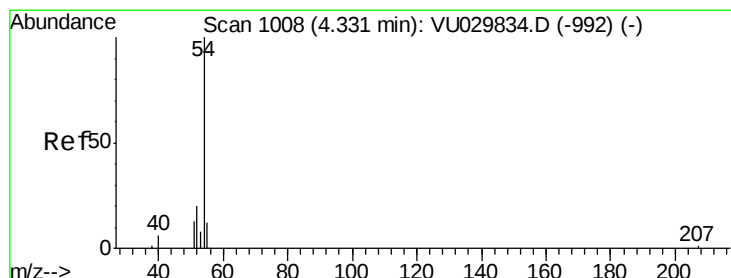
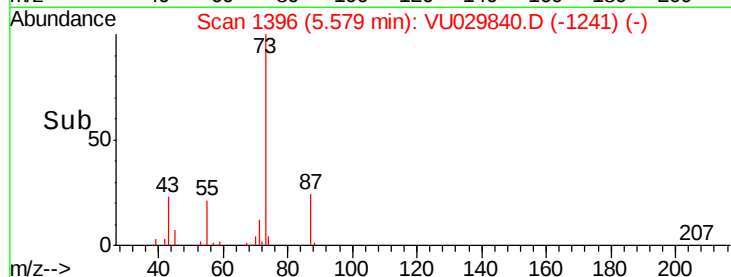
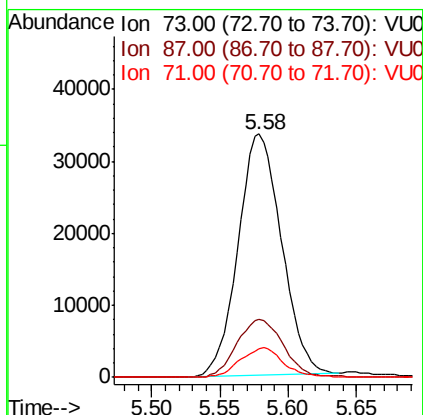
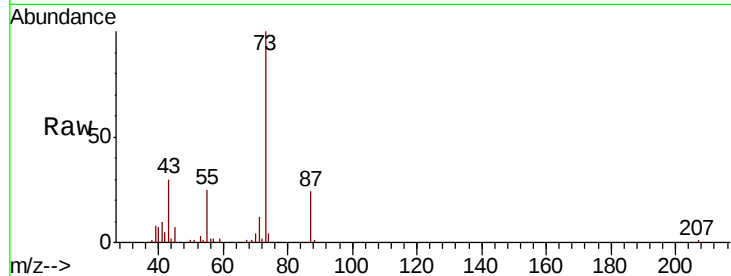
Instrument :
MSVOA_U
ClientSampleId :
VU0307WBS01

Tgt Ion	Ratio	Lower	Upper
73	100		
87	25.6	19.7	29.5
71	12.3	9.4	14.2

Manual Integrations
APPROVED

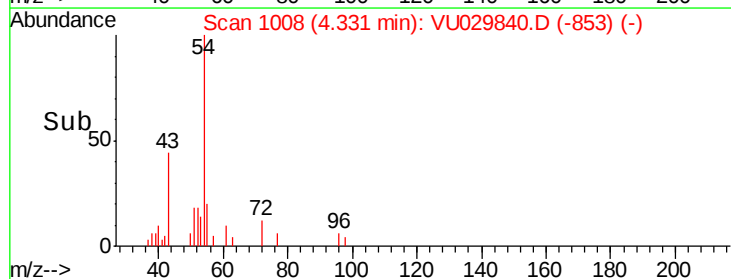
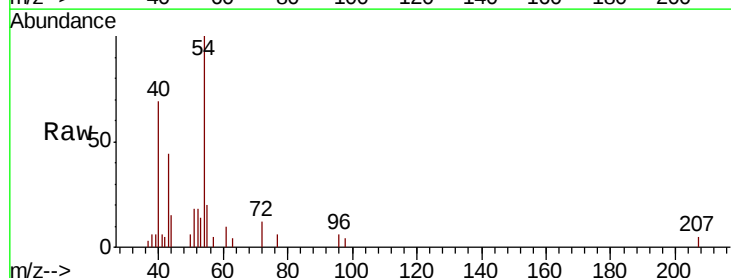
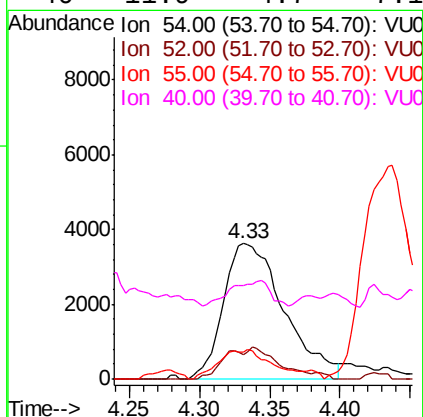
MM Dadoda

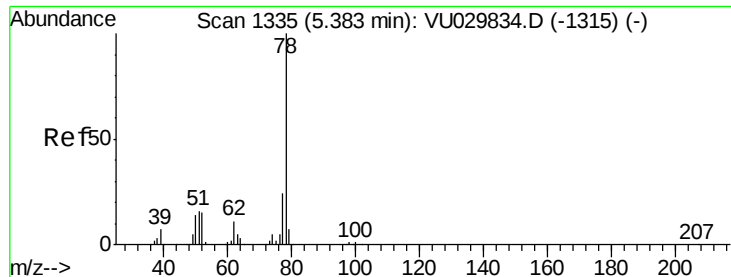
3/11/2019 4:50:34 PM



#34
Propionitrile
Concen: 9.084 ug/l
RT: 4.33 min Scan# 1008
Delta R.T. -0.00 min
Lab File: VU029840.D
Acq: 06 Mar 2019 15:09

Tgt Ion	Ratio	Lower	Upper
54	100		
52	8.2	16.1	24.1#
55	7.9	11.2	16.8#
40	11.9	4.7	7.1#





#35
Benzene
Concen: 1.912 ug/l
RT: 5.38 min Scan# 1335
Delta R.T. -0.00 min
Lab File: VU029840.D
Acq: 06 Mar 2019 15:09

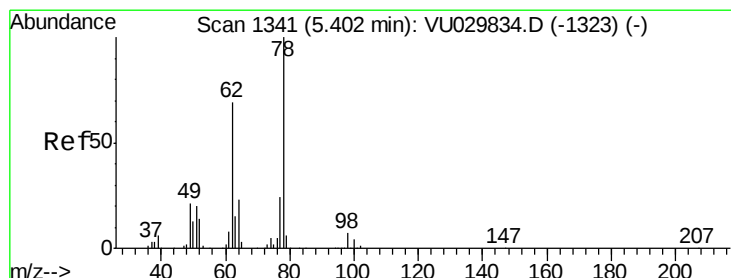
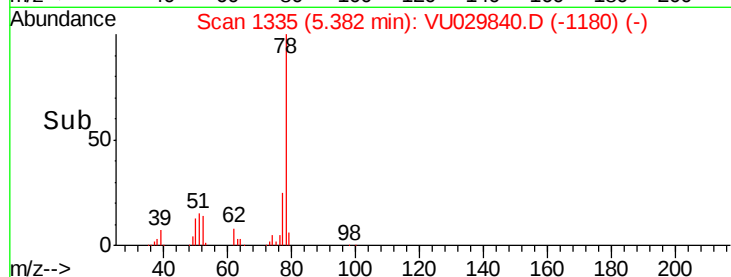
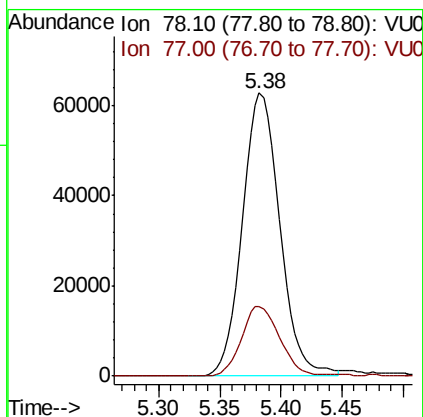
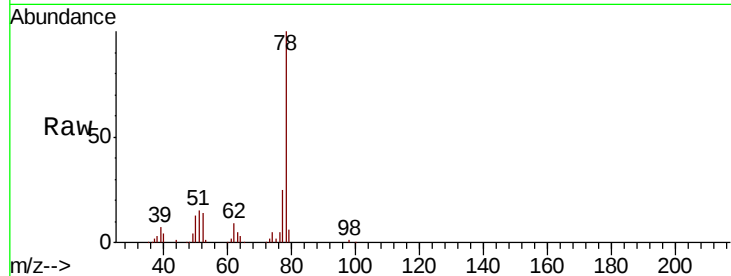
Instrument :
MSVOA_U
ClientSampleId :
VU0307WBS01

Tgt Ion: 78 Resp: 133165
Ion Ratio Lower Upper
78 100
77 24.5 19.2 28.8

Manual Integrations
APPROVED

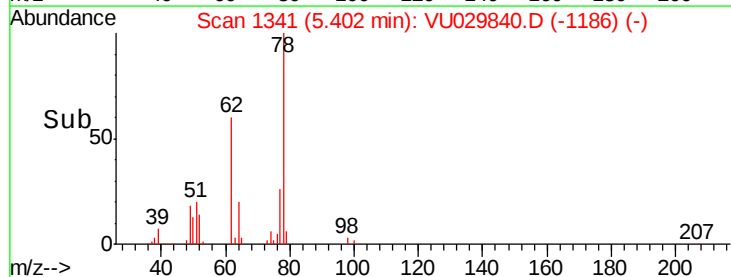
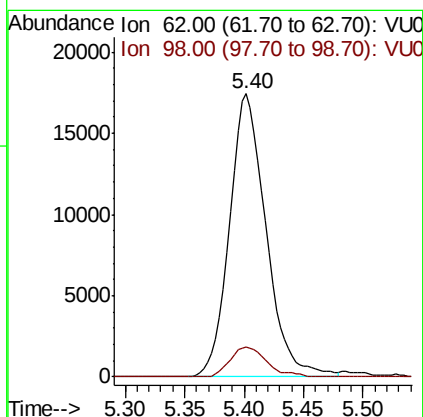
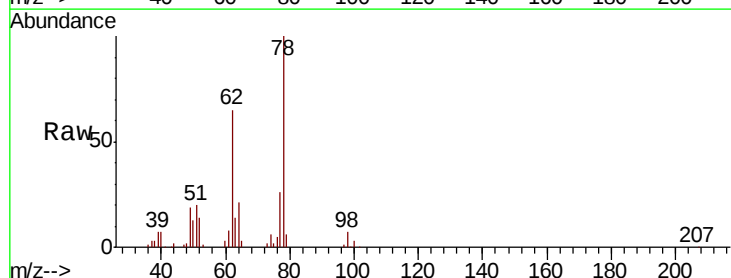
MM Dadoda

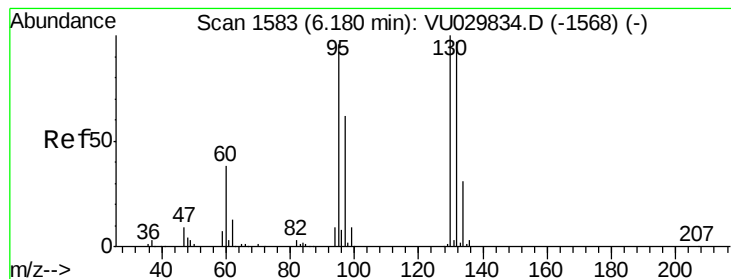
3/11/2019 4:50:34 PM



#36
1,2-Dichloroethane
Concen: 1.956 ug/l
RT: 5.40 min Scan# 1341
Delta R.T. -0.00 min
Lab File: VU029840.D
Acq: 06 Mar 2019 15:09

Tgt Ion: 62 Resp: 37203
Ion Ratio Lower Upper
62 100
98 10.6 8.2 12.2





#37

Trichloroethene

Concen: 1.913 ug/l

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU029840.D

Acq: 06 Mar 2019 15:09

Instrument :

MSVOA_U

ClientSampleId :

VU0307WBS01

Tgt Ion: 130 Resp: 38901

Ion Ratio Lower Upper

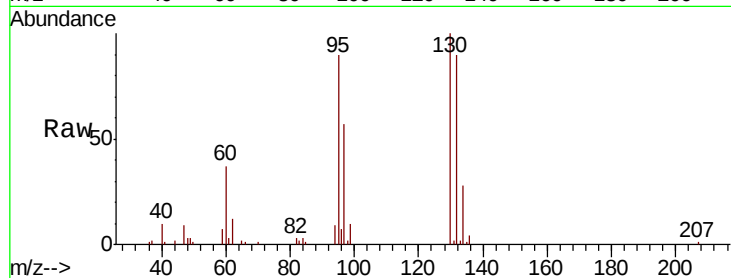
130 100

95 90.0 76.6 114.8

Manual Integrations
APPROVED

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3/11/2019 4:50:34 PM



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

Ion 94.90 (94.60 to 95.60): VU029834.D (-1568) (-)

6.18

20000

15000

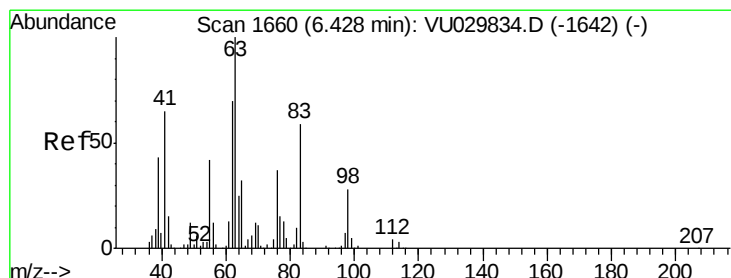
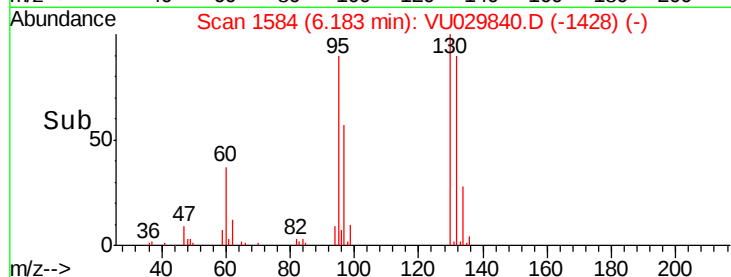
10000

5000

0

Time-->

6.10 6.15 6.20 6.25



#38

1,2-Dichloropropane

Concen: 1.906 ug/l

RT: 6.43 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VU029840.D

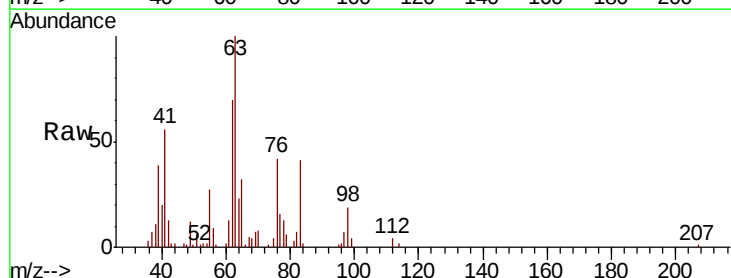
Acq: 06 Mar 2019 15:09

Tgt Ion: 63 Resp: 33614

Ion Ratio Lower Upper

63 100

65 32.5 25.4 38.2



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

Ion 65.00 (64.70 to 65.70): VU029834.D (-1642) (-)

6.43

20000

15000

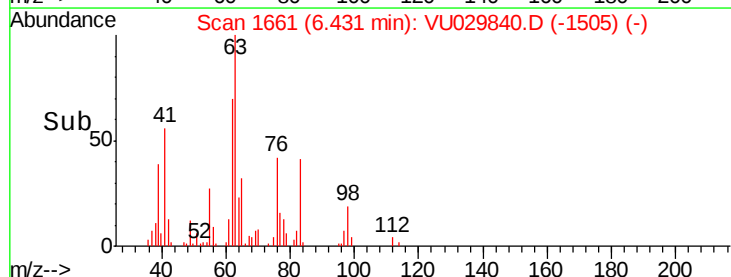
10000

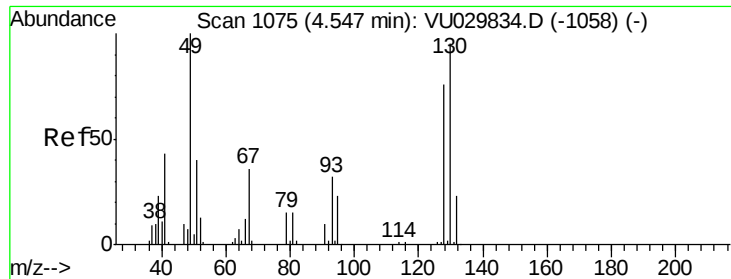
5000

0

Time-->

6.35 6.40 6.45 6.50





#39
Methacrylonitrile
Concen: 1.856 ug/l
RT: 4.55 min Scan# 1076
Delta R.T. 0.00 min
Lab File: VU029840.D
Acq: 06 Mar 2019 15:09

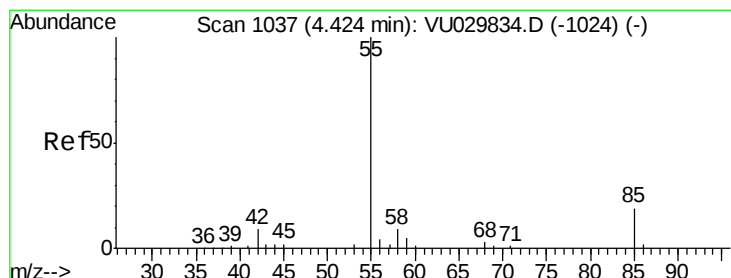
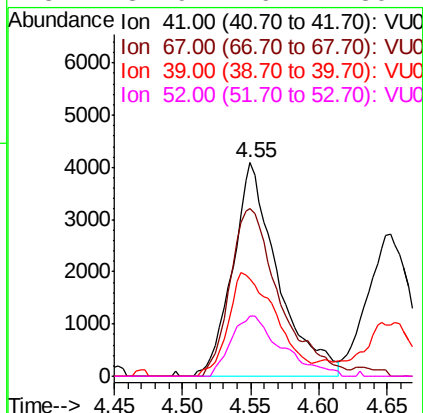
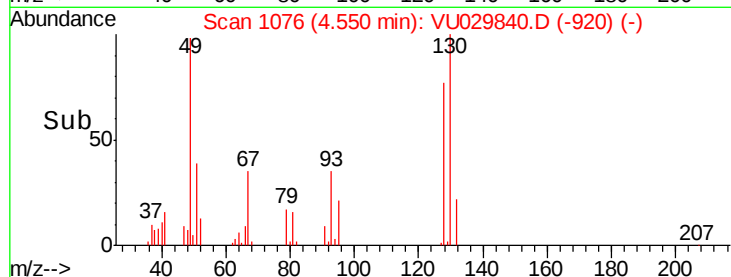
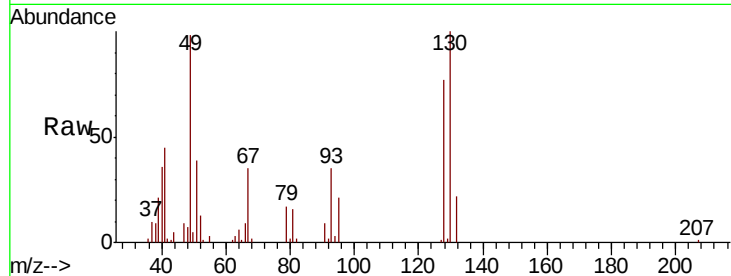
Instrument :
MSVOA_U
ClientSampleId :
VU0307WBS01

Tgt Ion:	41	Resp:	9348
Ion	Ratio	Lower	Upper
41	100		
67	86.5	68.4	102.6
39	51.9	42.6	63.8
52	31.9	26.2	39.4

Manual Integrations
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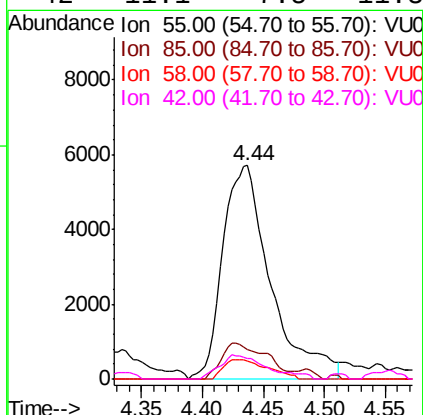
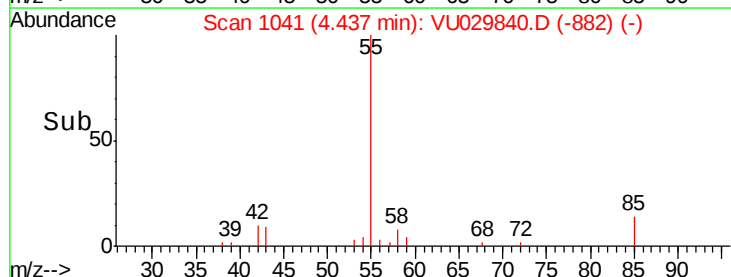
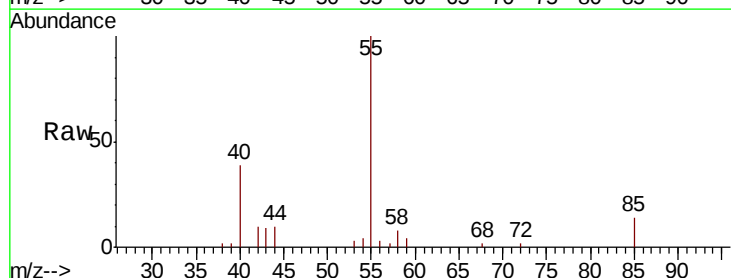
MM Dadoda

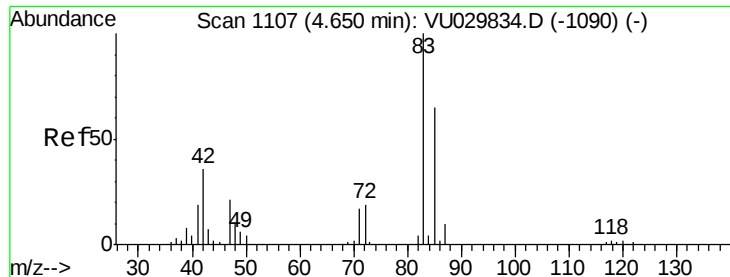
3/11/2019 4:50:34 PM



#40
Methyl acrylate
Concen: 1.964 ug/l
RT: 4.44 min Scan# 1041
Delta R.T. 0.01 min
Lab File: VU029840.D
Acq: 06 Mar 2019 15:09

Tgt Ion:	55	Resp:	15634
Ion	Ratio	Lower	Upper
55	100		
85	16.0	15.2	22.8
58	8.3	7.6	11.4
42	11.1	7.5	11.3





#41
Tetrahydrofuran
Concen: 3.976 ug/l
RT: 4.65 min Scan# 1107
Delta R.T. -0.00 min
Lab File: VU029840.D
Acq: 06 Mar 2019 15:09

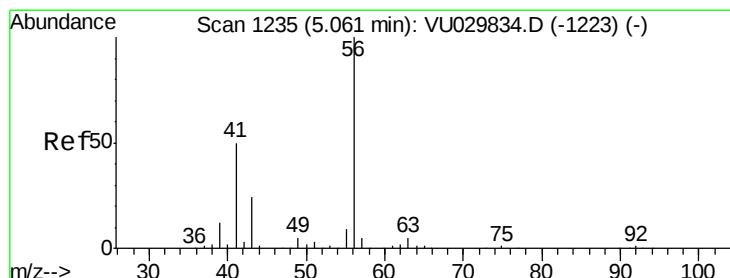
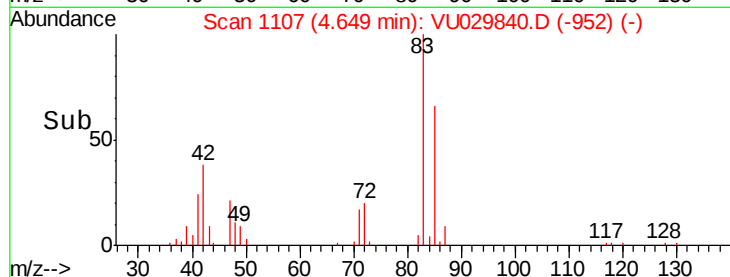
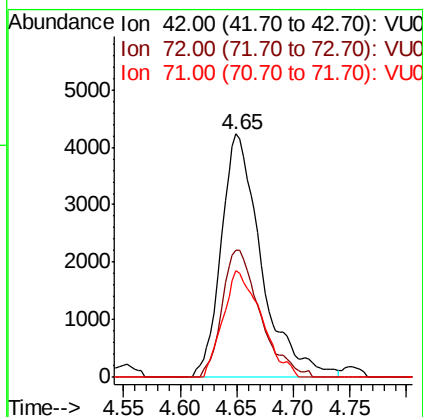
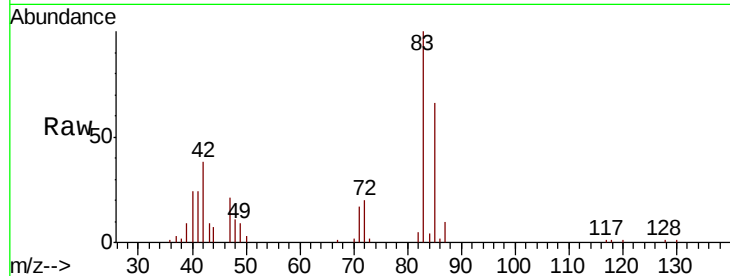
Instrument :
MSVOA_U
ClientSampleId :
VU0307WBS01

Tgt Ion	Ratio	Lower	Upper
42	100		
72	49.4	43.6	65.4
71	41.7	37.5	56.3

Manual Integrations
APPROVED

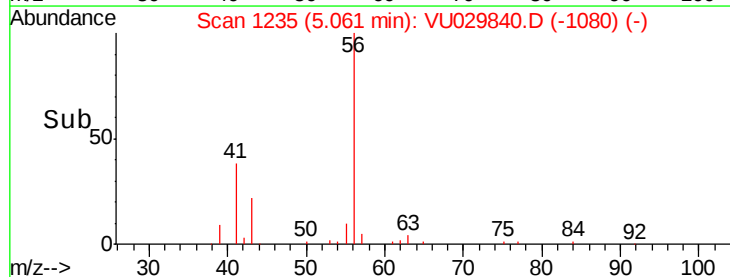
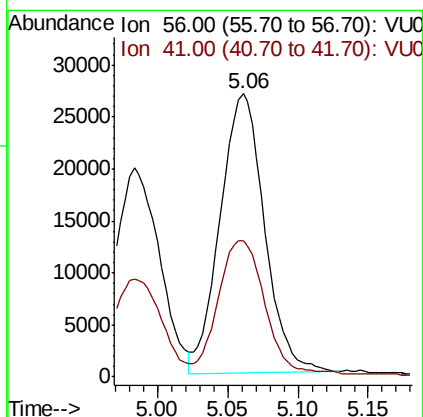
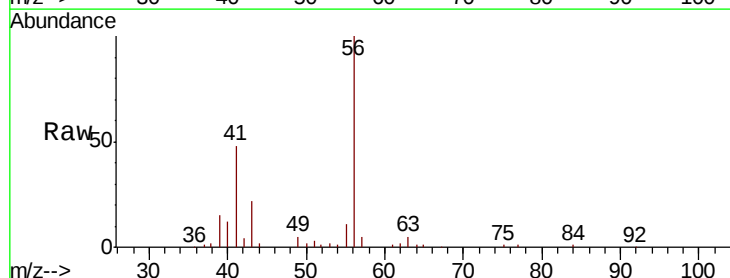
MMMadoda

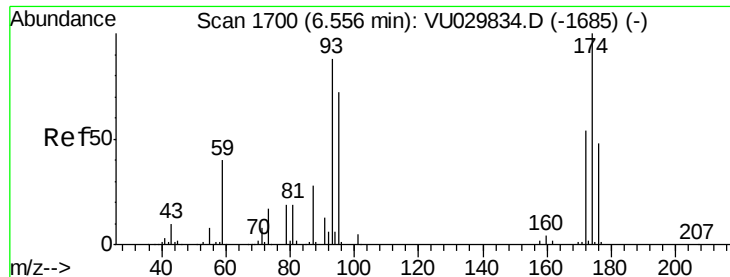
3/11/2019 4:50:34 PM



#42
1-Chlorobutane
Concen: 1.958 ug/l
RT: 5.06 min Scan# 1235
Delta R.T. -0.00 min
Lab File: VU029840.D
Acq: 06 Mar 2019 15:09

Tgt Ion	Ratio	Lower	Upper
56	100		
41	49.8	25.0	75.0





#43

Dibromomethane

Concen: 2.060 ug/l

RT: 6.56 min Scan# 1700

Delta R.T. -0.00 min

Lab File: VU029840.D

Acq: 06 Mar 2019 15:09

Instrument :

MSVOA_U

ClientSampleId :

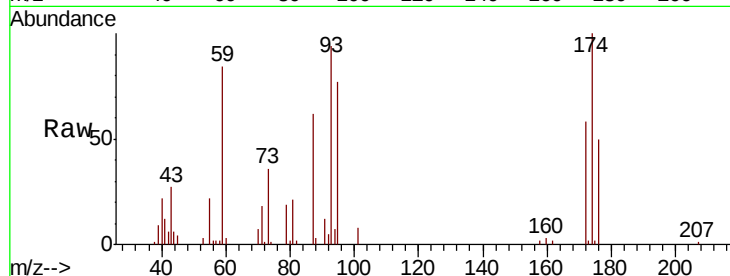
VU0307WBS01

Tgt Ion:	93	Resp:	18821
Ion	Ratio	Lower	Upper
93	100		
95	83.4	67.0	100.6
174	112.5	91.4	137.2

Manual Integrations
APPROVED

MMMadoda

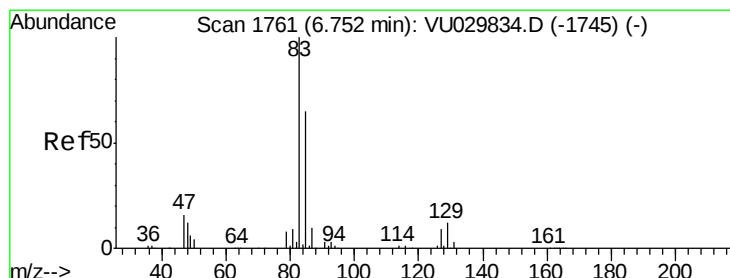
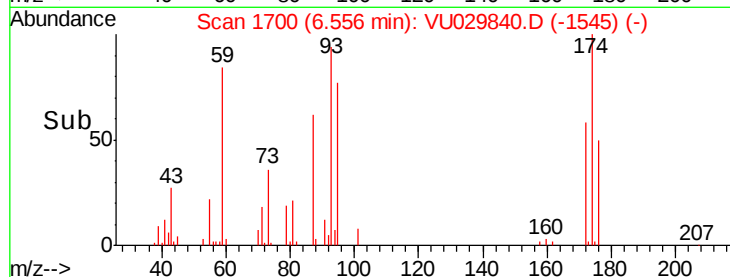
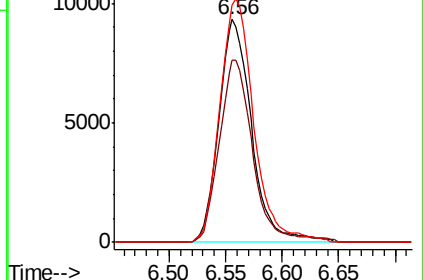
3/11/2019 4:50:34 PM



Abundance Ion 93.00 (92.70 to 93.70): VU029834.D (-1685) (-)

Ion 95.00 (94.70 to 95.70): VU029834.D (-1685) (-)

Ion 174.00 (173.70 to 174.70): VU029834.D (-1685) (-)



#44

Bromodichloromethane

Concen: 1.871 ug/l

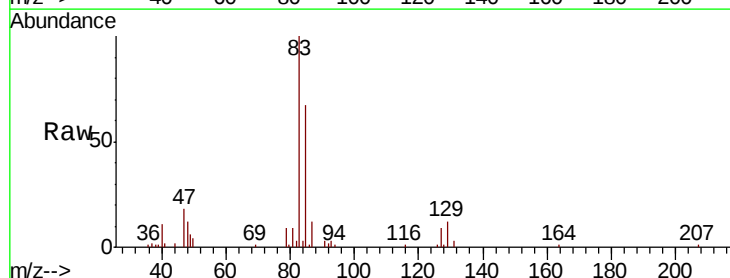
RT: 6.75 min Scan# 1761

Delta R.T. -0.00 min

Lab File: VU029840.D

Acq: 06 Mar 2019 15:09

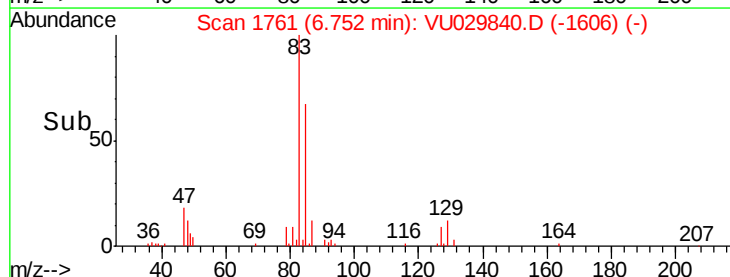
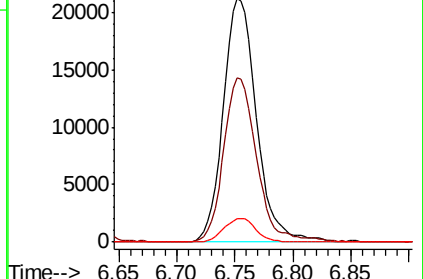
Tgt Ion:	83	Resp:	41979
Ion	Ratio	Lower	Upper
83	100		
85	67.3	51.7	77.5
127	9.5	7.4	11.2

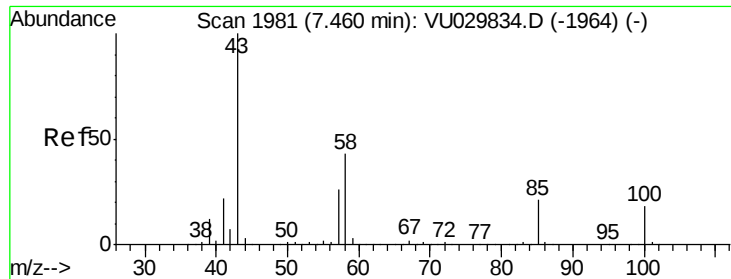


Abundance Ion 83.00 (82.70 to 83.70): VU029834.D (-1745) (-)

Ion 85.00 (84.70 to 85.70): VU029834.D (-1745) (-)

Ion 127.00 (126.70 to 127.70): VU029834.D (-1745) (-)





#45
4-Methyl-2-Pentanone
Concen: 9.492 ug/l
RT: 7.46 min Scan# 1982
Delta R.T. 0.00 min
Lab File: VU029840.D
Acq: 06 Mar 2019 15:09

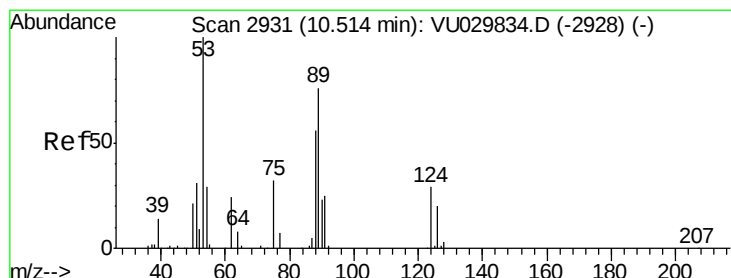
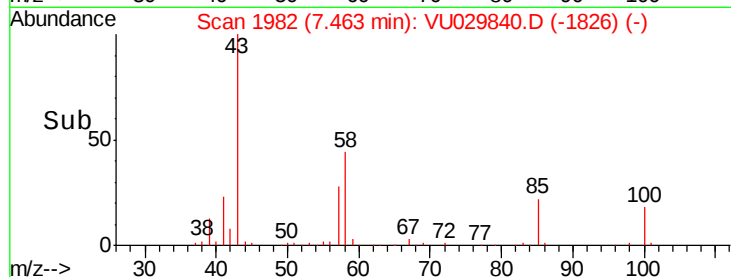
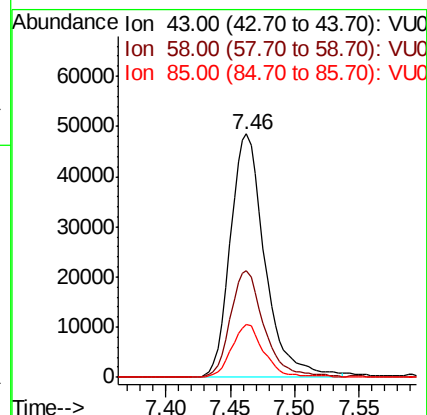
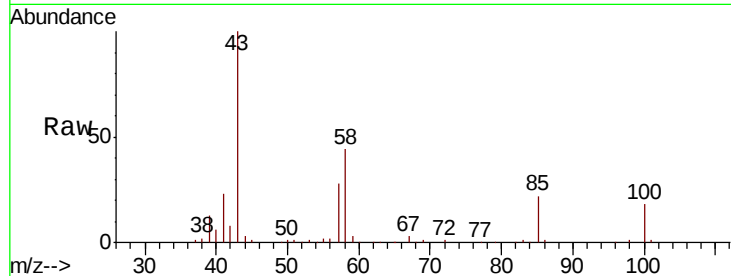
Instrument :
MSVOA_U
ClientSampleId :
VU0307WBS01

Tgt Ion	Ratio	Lower	Upper
43	100		
58	42.9	21.6	65.0
85	20.4	16.5	24.7

Manual Integrations
APPROVED

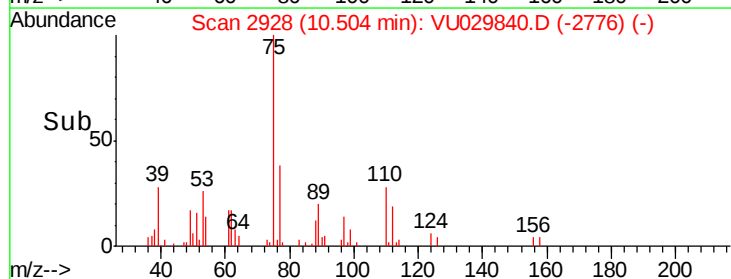
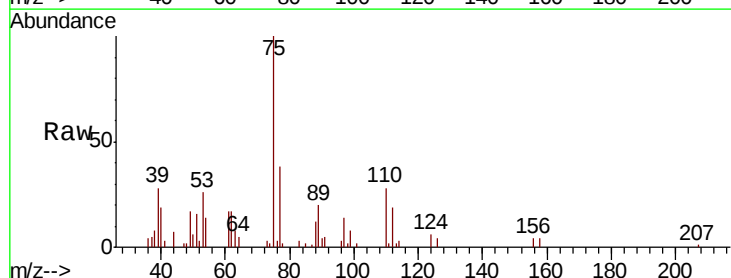
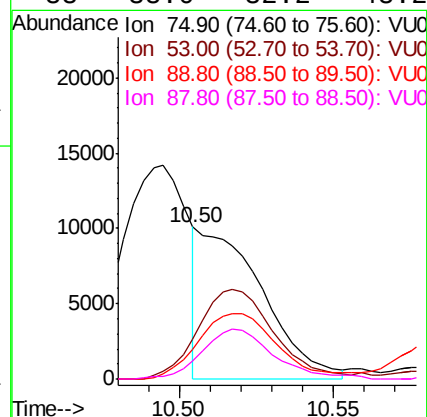
MMMadoda

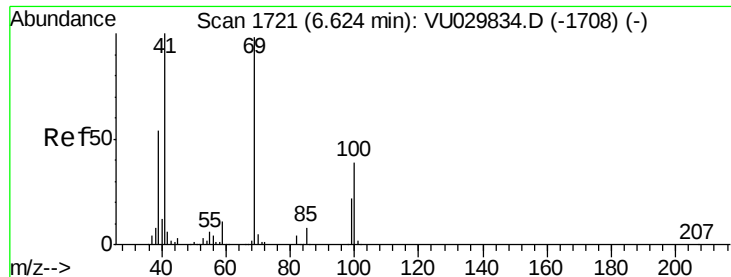
3/11/2019 4:50:34 PM



#46
t-1,4-Dichloro-2-butene
Concen: 3.573 ug/l m
RT: 10.50 min Scan# 2928
Delta R.T. -0.01 min
Lab File: VU029840.D
Acq: 06 Mar 2019 15:09

Tgt Ion	Ratio	Lower	Upper
75	100		
53	71.3	59.2	88.8
89	54.2	44.9	67.3
88	38.0	32.2	48.2





#47
Methyl methacrylate
Concen: 3.628 ug/l
RT: 6.63 min Scan# 1722
Delta R.T. 0.00 min
Lab File: VU029840.D
Acq: 06 Mar 2019 15:09

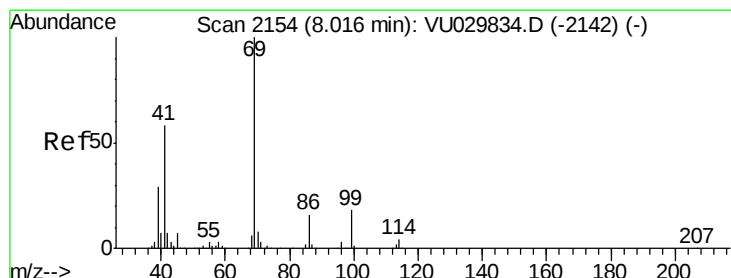
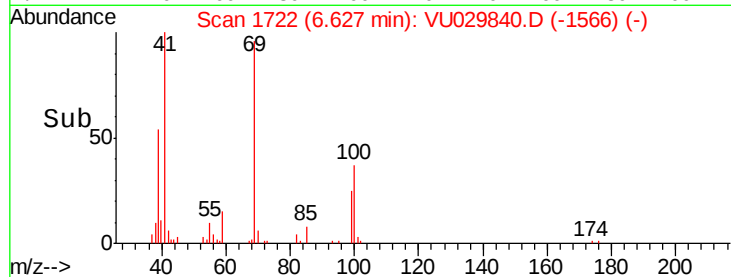
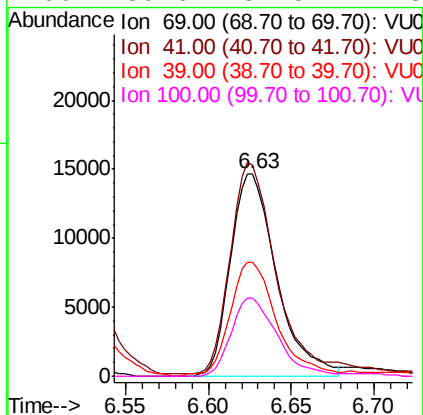
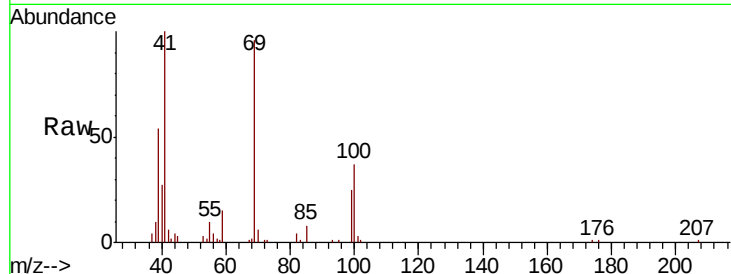
Instrument :
MSVOA_U
ClientSampleId :
VU0307WBS01

Tgt Ion	Ratio	Lower	Upper
69	100		
41	106.1	0.0	201.0
39	57.2	43.3	64.9
100	39.6	31.5	47.3

Manual Integrations
APPROVED

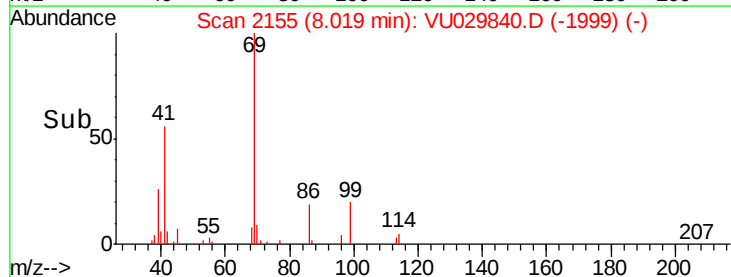
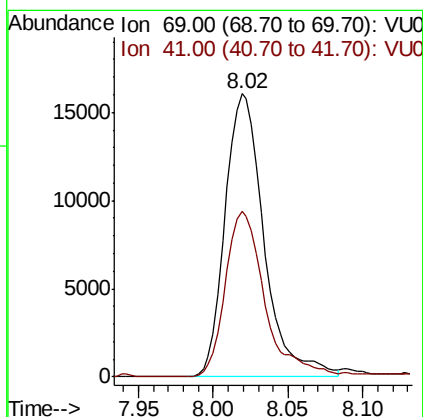
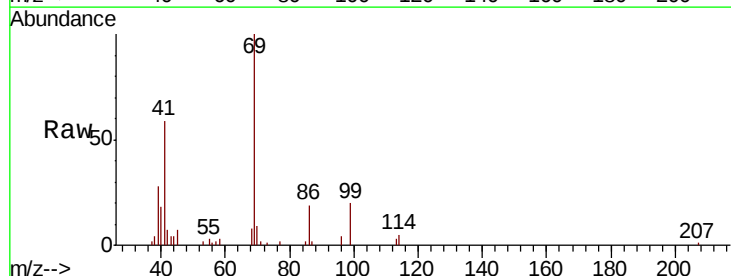
MMDadoda

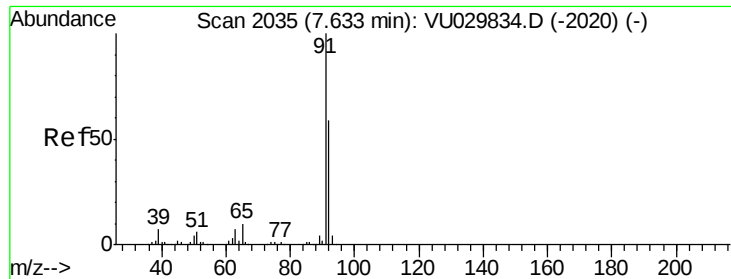
3/11/2019 4:50:34 PM



#48
Ethyl methacrylate
Concen: 1.944 ug/l
RT: 8.02 min Scan# 2155
Delta R.T. 0.00 min
Lab File: VU029840.D
Acq: 06 Mar 2019 15:09

Tgt Ion	Ratio	Lower	Upper
69	100		
41	59.0	29.0	87.1





#49

Toluene

Concen: 1.950 ug/l

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU029840.D

Acq: 06 Mar 2019 15:09

Instrument :

MSVOA_U

ClientSampleId :

VU0307WBS01

Tgt Ion: 92 Resp: 83403

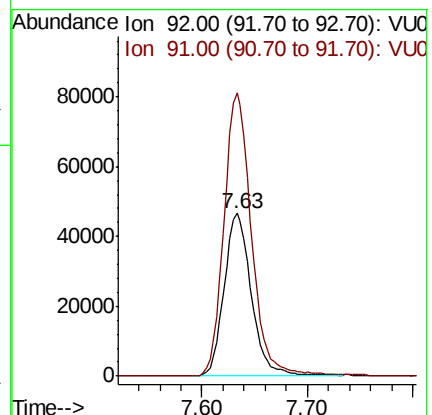
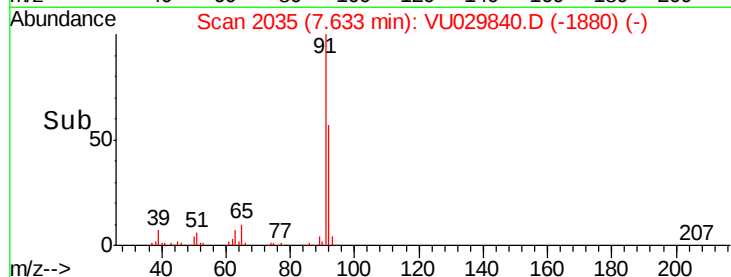
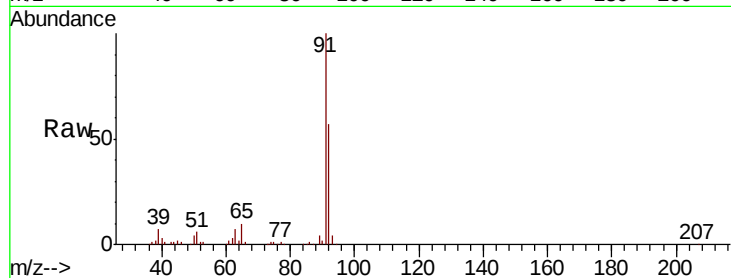
Ion Ratio Lower Upper

92 100

91 175.8 137.8 206.8

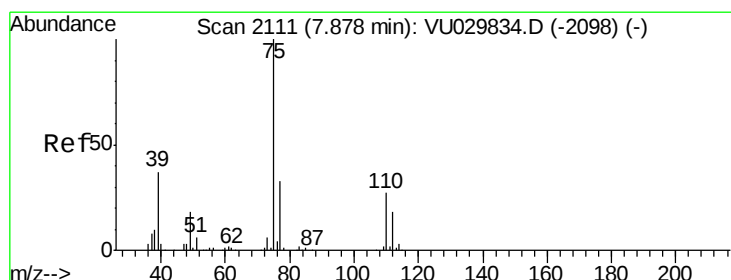
Manual Integrations

APPROVED



MMDadoda

3/11/2019 4:50:34 PM



#50

t-1,3-Dichloropropene

Concen: 1.862 ug/l

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VU029840.D

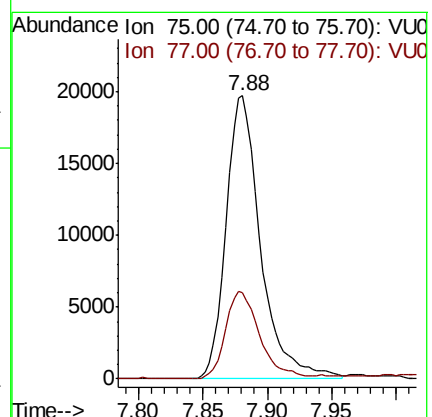
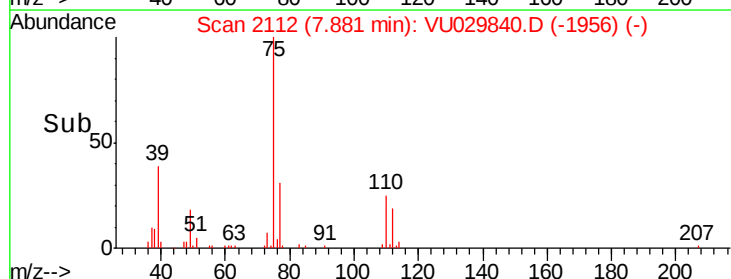
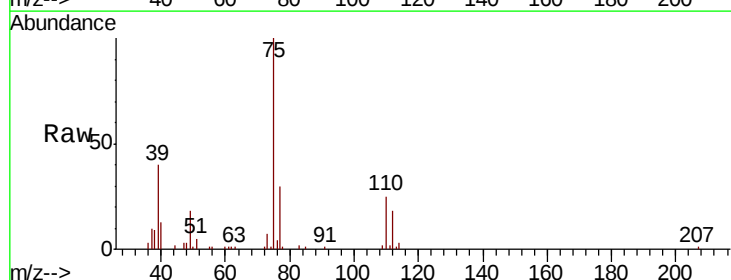
Acq: 06 Mar 2019 15:09

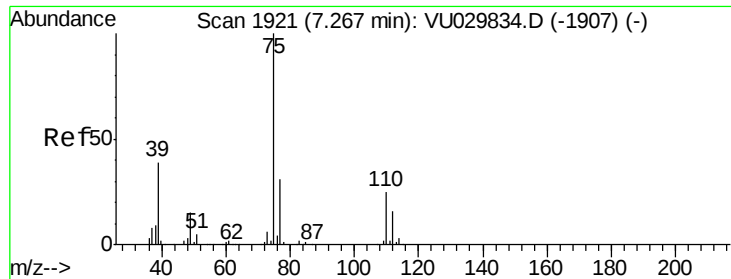
Tgt Ion: 75 Resp: 36631

Ion Ratio Lower Upper

75 100

77 30.5 26.4 39.6





#51
 cis-1,3-Dichloropropene
 Concen: 1.902 ug/l
 RT: 7.27 min Scan# 1921
 Delta R.T. -0.00 min
 Lab File: VU029840.D
 Acq: 06 Mar 2019 15:09

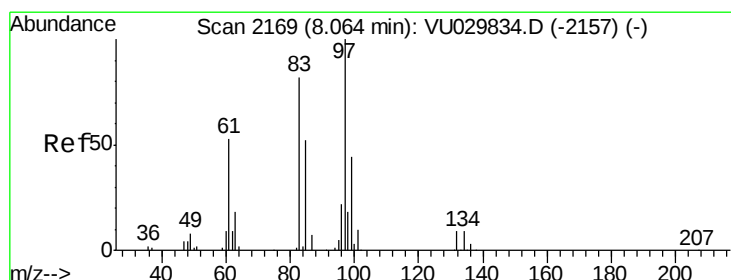
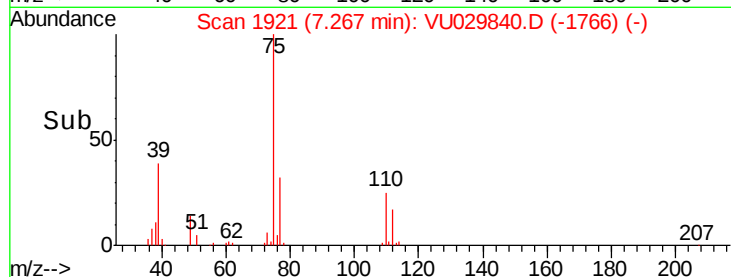
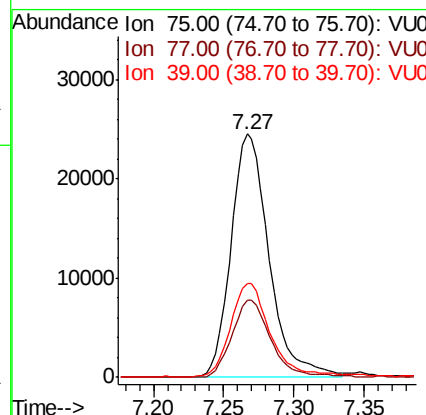
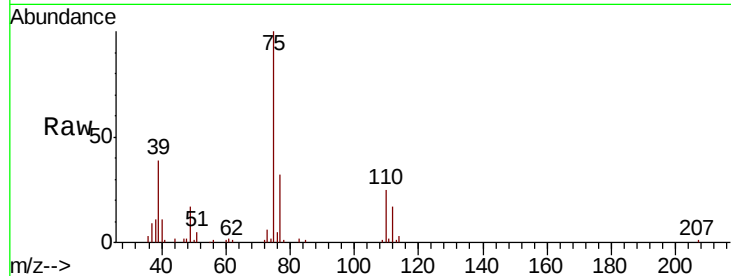
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0307WBS01

Tgt Ion:	75	Resp:	46318
Ion	Ratio	Lower	Upper
75	100		
77	31.5	24.9	37.3
39	38.5	30.8	46.2

Manual Integrations
 APPROVED

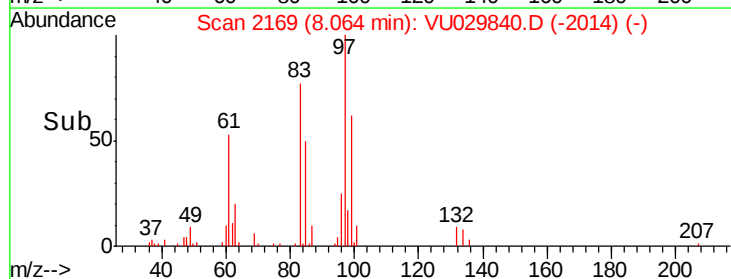
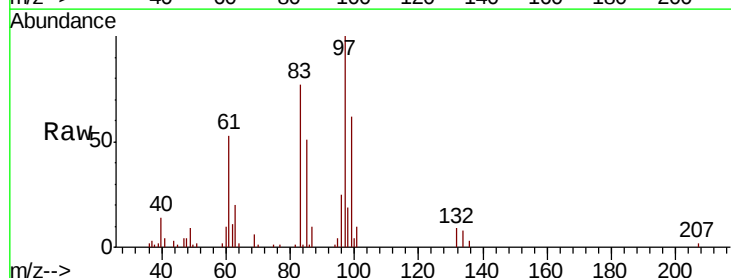
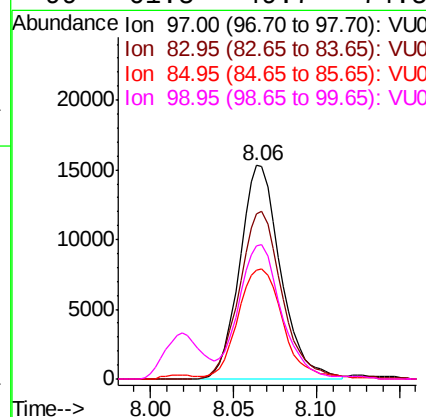
MMMadoda

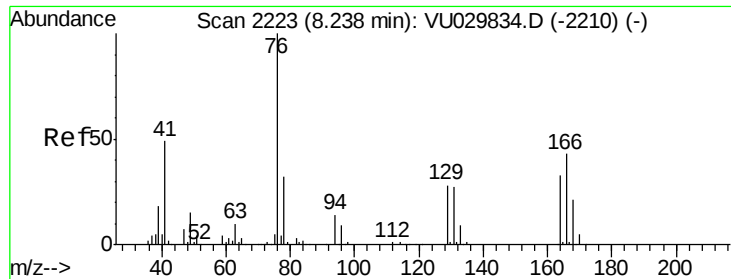
3/11/2019 4:50:34 PM



#52
 1,1,2-Trichloroethane
 Concen: 1.943 ug/l
 RT: 8.06 min Scan# 2169
 Delta R.T. -0.00 min
 Lab File: VU029840.D
 Acq: 06 Mar 2019 15:09

Tgt Ion:	97	Resp:	26286
Ion	Ratio	Lower	Upper
97	100		
83	77.1	65.9	98.9
85	50.0	43.0	64.6
99	61.5	49.7	74.5





#53
 1,3-Dichloropropane
 Concen: 1.924 ug/l
 RT: 8.24 min Scan# 2224
 Delta R.T. 0.00 min
 Lab File: VU029840.D
 Acq: 06 Mar 2019 15:09

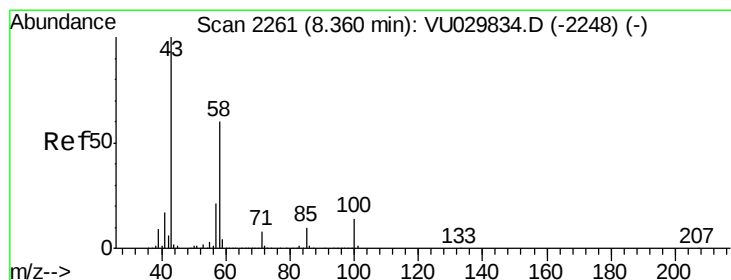
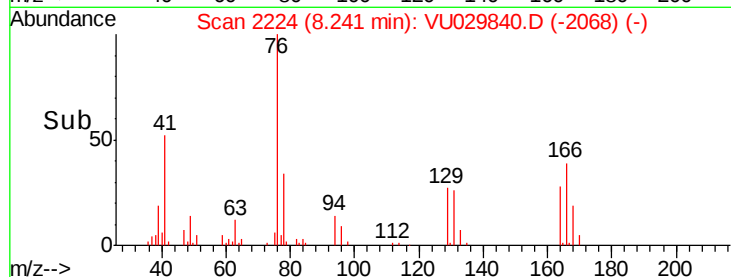
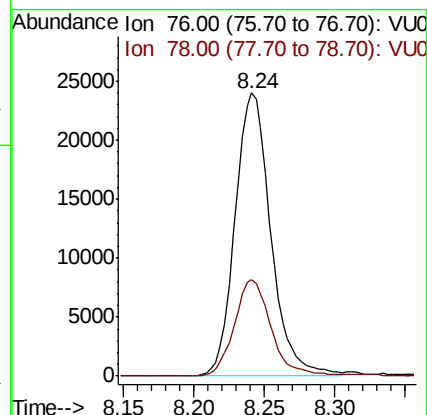
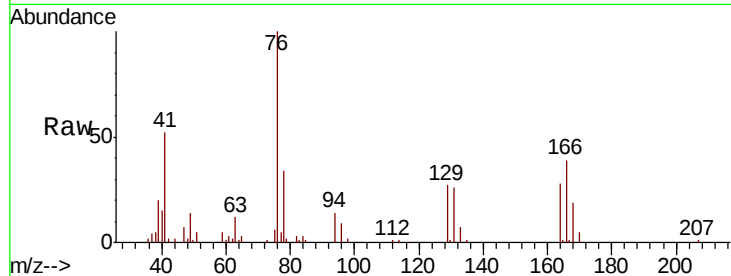
Instrument :
 MSVOA_U
 ClientSampled :
 VU0307WBS01

Tgt Ion: 76 Resp: 42688
 Ion Ratio Lower Upper
 76 100
 78 34.8 25.7 38.5

Manual Integrations
 APPROVED

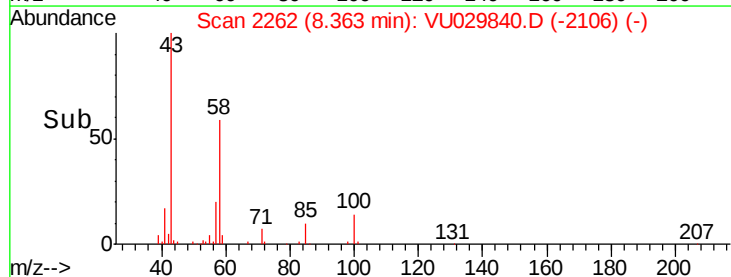
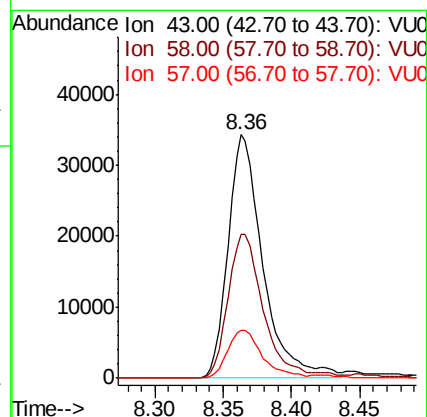
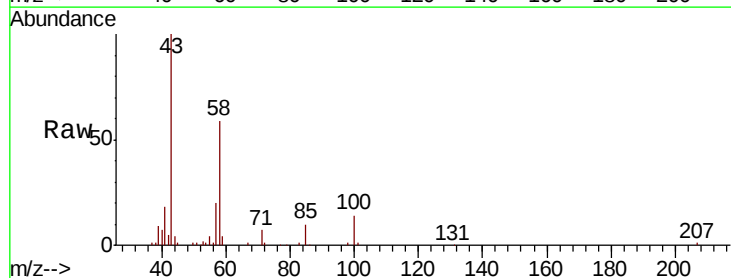
MM Dadoda

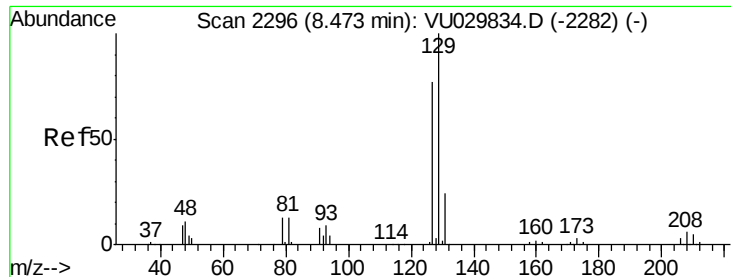
3/11/2019 4:50:34 PM



#54
 2-Hexanone
 Concen: 9.203 ug/l
 RT: 8.36 min Scan# 2262
 Delta R.T. 0.00 min
 Lab File: VU029840.D
 Acq: 06 Mar 2019 15:09

Tgt Ion: 43 Resp: 60912
 Ion Ratio Lower Upper
 43 100
 58 60.5 39.6 79.6
 57 19.7 0.5 40.5





#55
Dibromochloromethane
Concen: 1.865 ug/l
RT: 8.48 min Scan# 2297
Delta R.T. 0.00 min
Lab File: VU029840.D
Acq: 06 Mar 2019 15:09

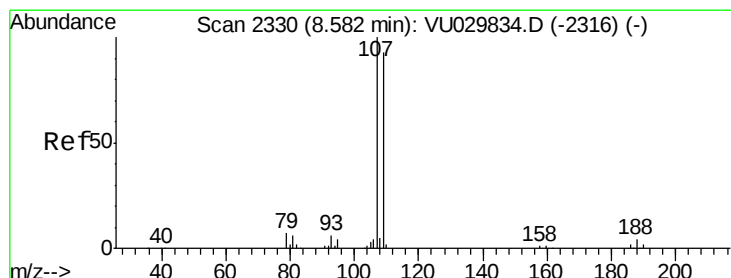
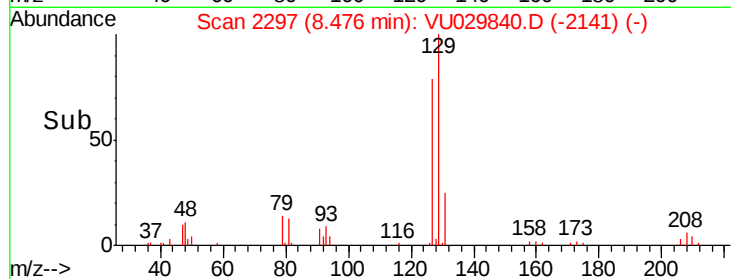
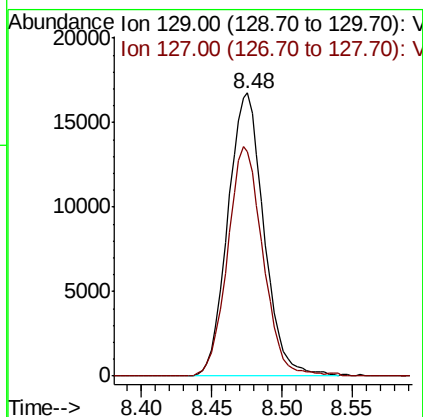
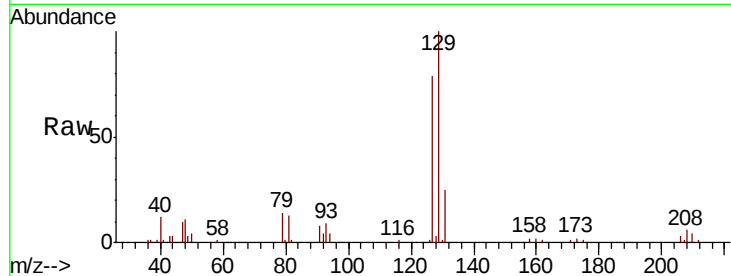
Instrument :
MSVOA_U
ClientSampleId :
VU0307WBS01

Tgt Ion	Ratio	Resp	Lower	Upper
129	100	29939		
127	79.5	61.6	92.4	

Manual Integrations
APPROVED

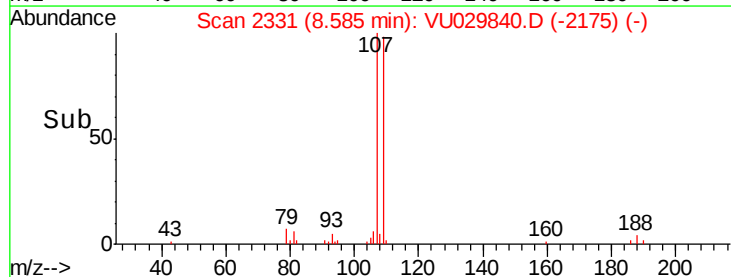
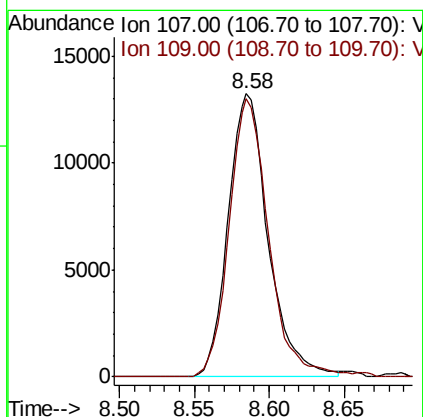
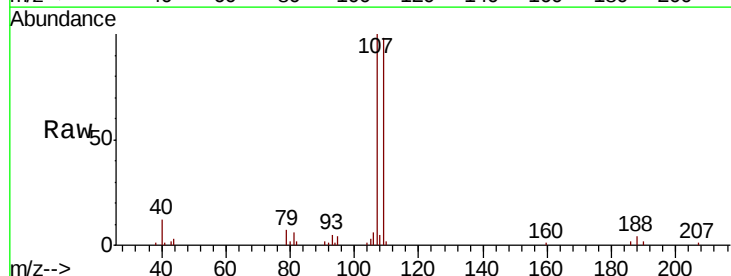
MMMadoda

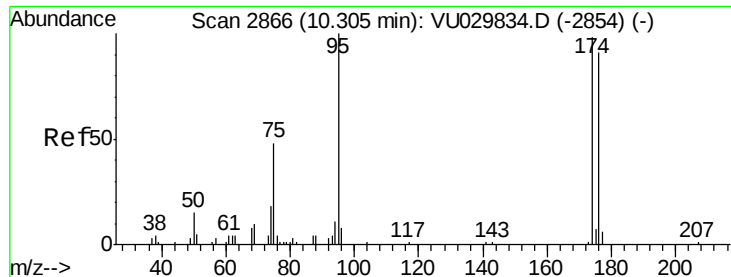
3/11/2019 4:50:34 PM



#56
1,2-Dibromoethane
Concen: 1.923 ug/l
RT: 8.58 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VU029840.D
Acq: 06 Mar 2019 15:09

Tgt Ion	Ratio	Resp	Lower	Upper
107	100	24662		
109	96.8	0.0	188.4	





#57
4-Bromofluorobenzene
Concen: 1.923 ug/l
RT: 10.31 min Scan# 2866
Delta R.T. -0.00 min
Lab File: VU029840.D
Acq: 06 Mar 2019 15:09

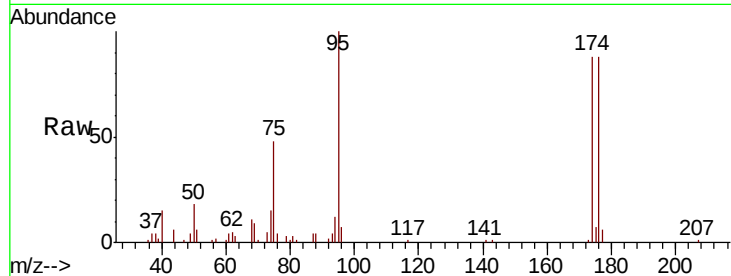
Instrument :
MSVOA_U
ClientSampleId :
VU0307WBS01

Tgt Ion	Ratio	Lower	Upper
95	100		
174	88.9	76.5	114.7
176	87.9	74.2	111.2

Manual Integrations
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3/11/2019 4:50:34 PM

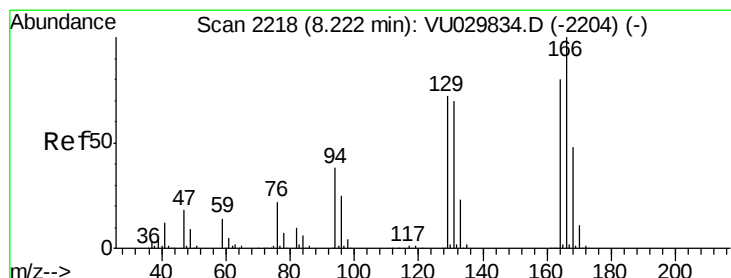
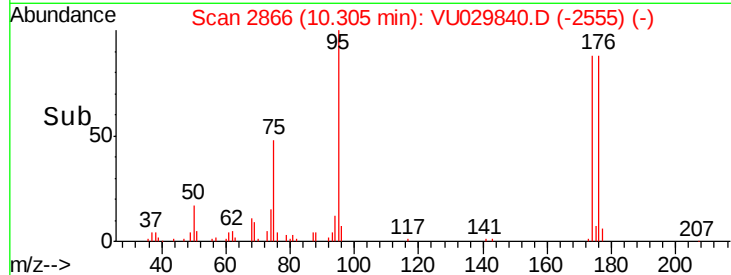
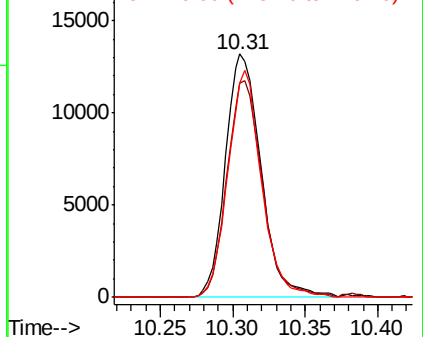


Abundance

Ion 95.00 (94.70 to 95.70): VU029840.D (-2555) (-)

Ion 174.00 (173.70 to 174.70): VU029840.D (-2555) (-)

Ion 176.00 (175.70 to 176.70): VU029840.D (-2555) (-)



#58
Tetrachloroethene
Concen: 1.947 ug/l
RT: 8.22 min Scan# 2218
Delta R.T. -0.00 min
Lab File: VU029840.D
Acq: 06 Mar 2019 15:09

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.3	100.5	150.7
129	85.9	72.3	108.5
131	88.3	70.0	105.0

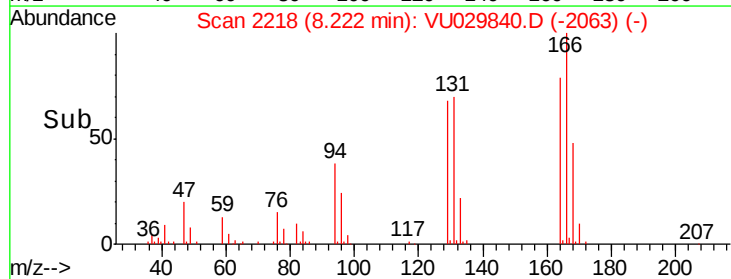
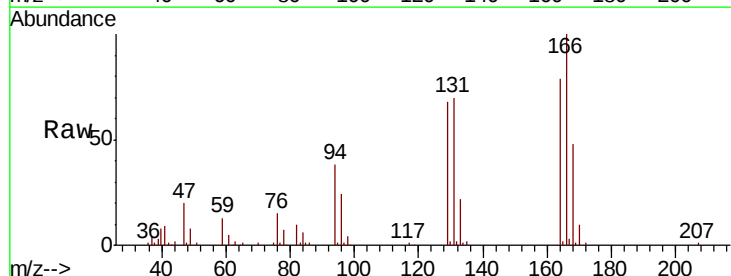
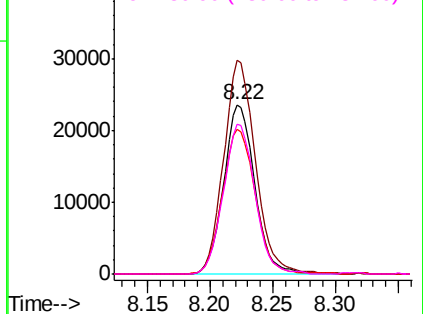
Abundance

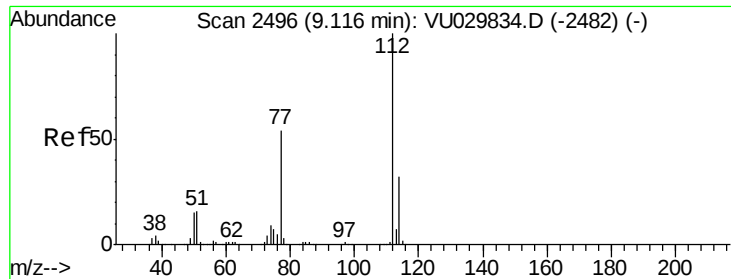
Ion 163.85 (163.55 to 164.55): VU029840.D (-2063) (-)

Ion 165.80 (165.50 to 166.50): VU029840.D (-2063) (-)

Ion 128.90 (128.60 to 129.60): VU029840.D (-2063) (-)

Ion 130.90 (130.60 to 131.60): VU029840.D (-2063) (-)





#59
Chlorobenzene
Concen: 1.908 ug/l
RT: 9.12 min Scan# 2496
Delta R.T. -0.00 min
Lab File: VU029840.D
Acq: 06 Mar 2019 15:09

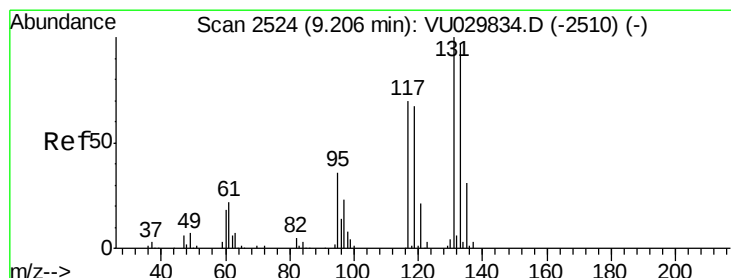
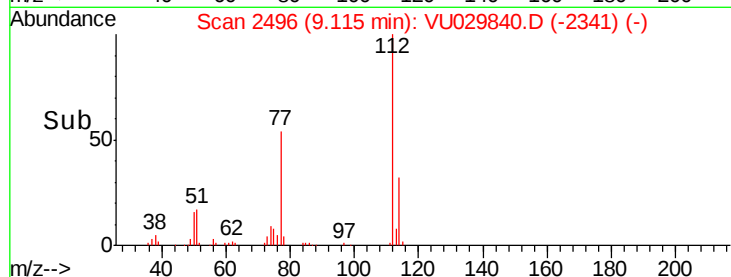
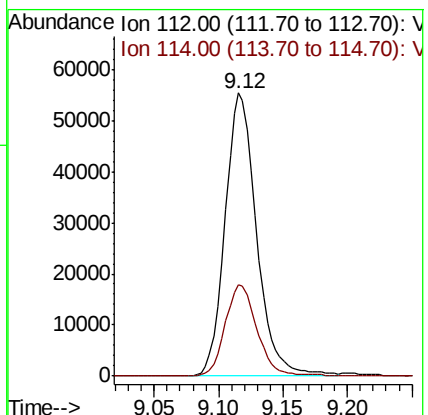
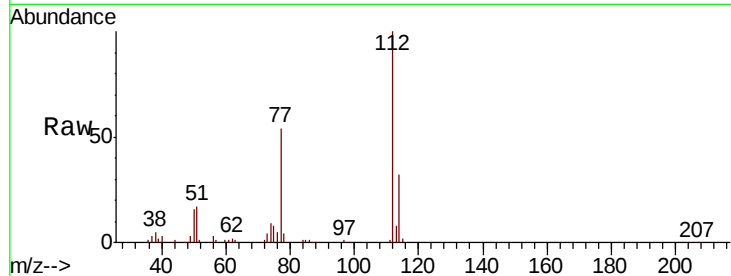
Instrument :
MSVOA_U
ClientSampleId :
VU0307WBS01

Tgt Ion:112 Resp: 93805
Ion Ratio Lower Upper
112 100
114 32.2 25.4 38.2

Manual Integrations
APPROVED

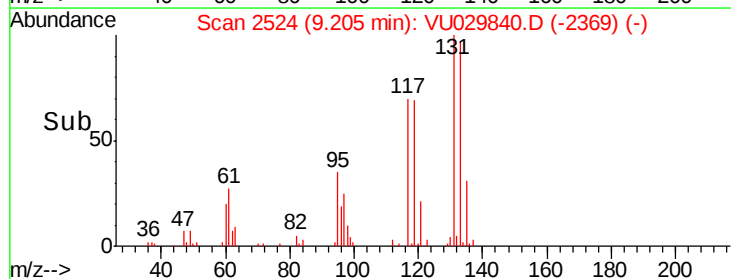
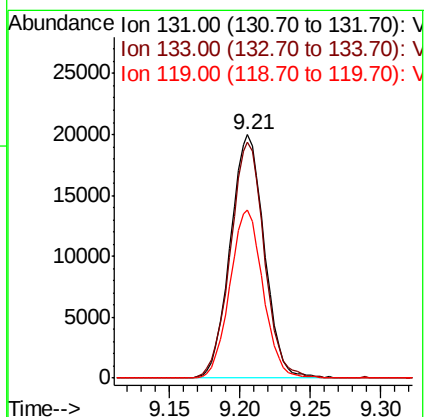
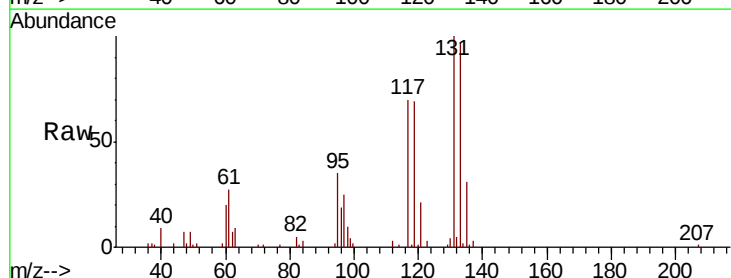
MMMadoda

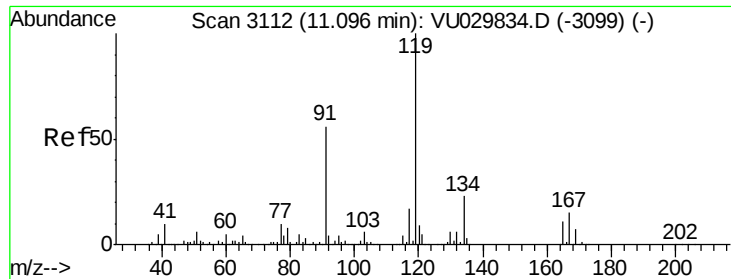
3/11/2019 4:50:34 PM



#60
1,1,1,2-Tetrachloroethane
Concen: 1.911 ug/l
RT: 9.21 min Scan# 2524
Delta R.T. -0.00 min
Lab File: VU029840.D
Acq: 06 Mar 2019 15:09

Tgt Ion:131 Resp: 33702
Ion Ratio Lower Upper
131 100
133 96.7 76.4 114.6
119 67.2 54.2 81.4





#61
 Pentachloroethane
 Concen: 1.919 ug/l
 RT: 11.10 min Scan# 3113
 Delta R.T. 0.00 min
 Lab File: VU029840.D
 Acq: 06 Mar 2019 15:09

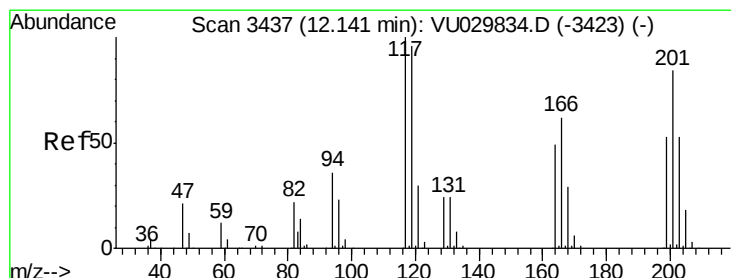
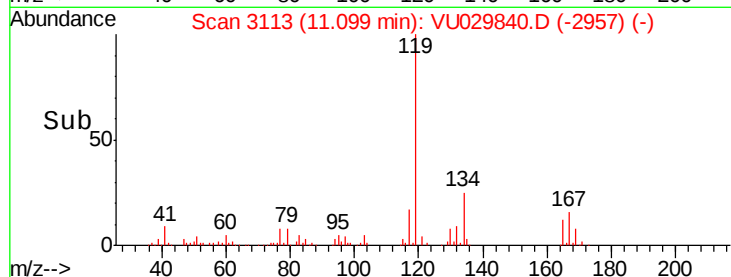
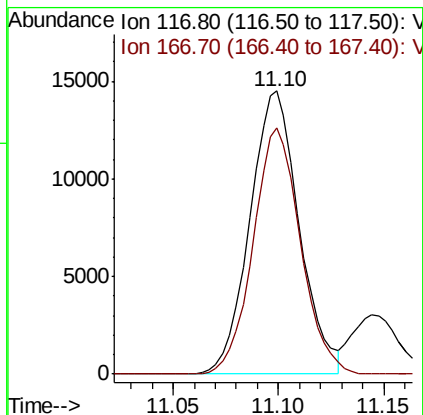
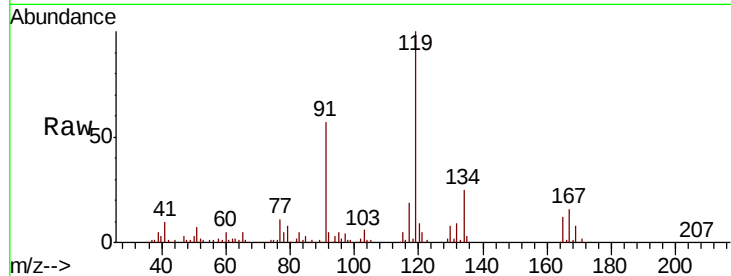
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0307WBS01

Tgt Ion:117 Resp: 23563
 Ion Ratio Lower Upper
 117 100
 167 83.5 71.4 107.2

Manual Integrations
 APPROVED

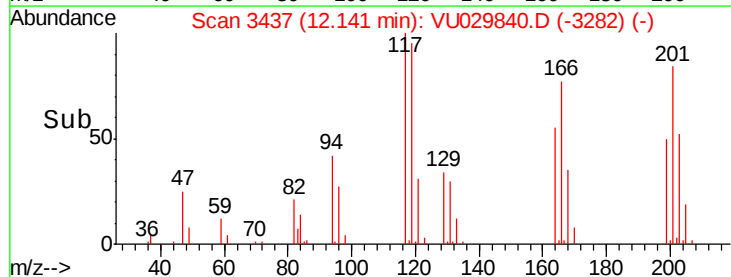
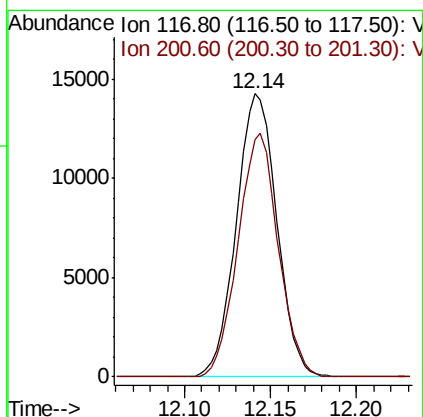
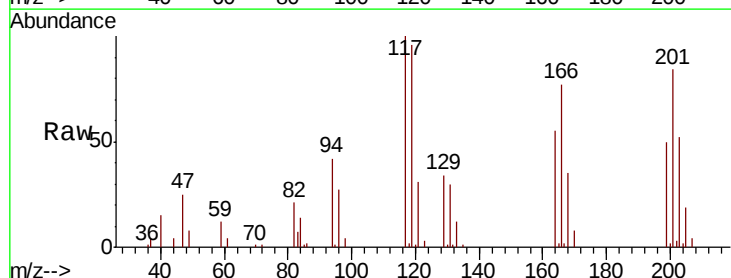
MMMadoda

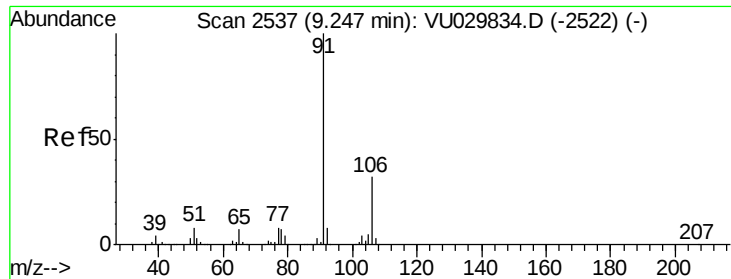
3/11/2019 4:50:34 PM



#62
 Hexachloroethane
 Concen: 1.804 ug/l
 RT: 12.14 min Scan# 3437
 Delta R.T. -0.00 min
 Lab File: VU029840.D
 Acq: 06 Mar 2019 15:09

Tgt Ion:117 Resp: 23304
 Ion Ratio Lower Upper
 117 100
 201 85.3 68.2 102.2





#63

Ethyl Benzene

Concen: 1.878 ug/l

RT: 9.25 min Scan# 2537

Delta R.T. -0.00 min

Lab File: VU029840.D

Acq: 06 Mar 2019 15:09

Instrument :

MSVOA_U

ClientSampleId :

VU0307WBS01

Tgt Ion: 91 Resp: 151254

Ion Ratio Lower Upper

91 100

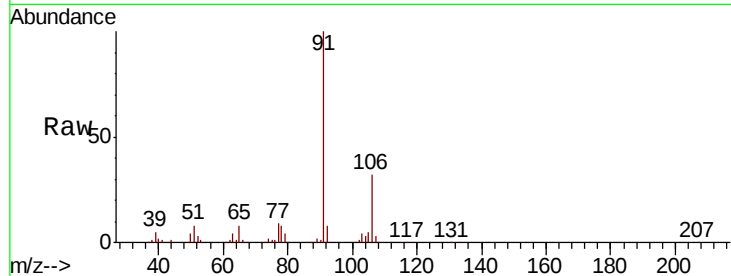
106 32.2 25.7 38.5

Manual Integrations

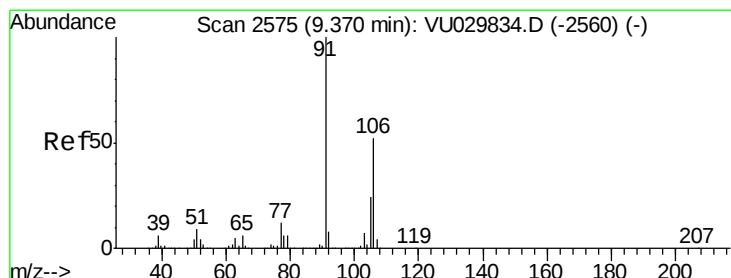
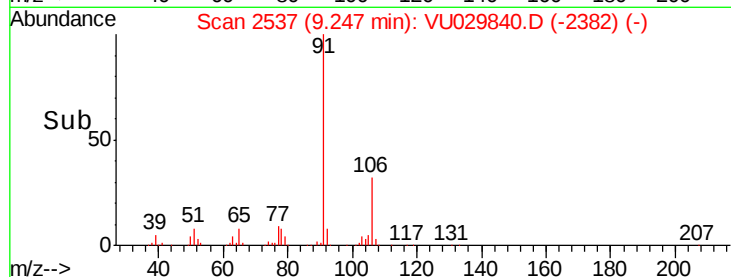
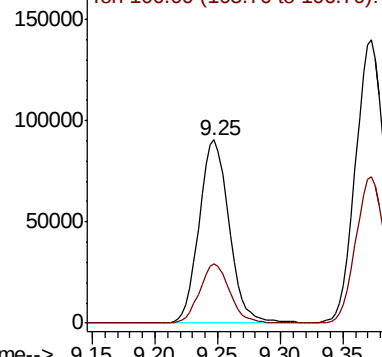
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Abundance Ion 91.00 (90.70 to 91.70): VU029840.D (-2382) (-)



#64

m/p-Xylenes

Concen: 3.787 ug/l

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU029840.D

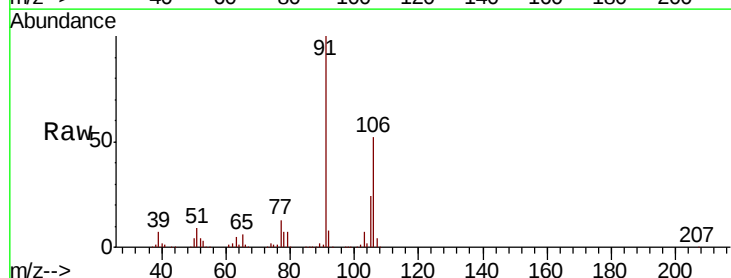
Acq: 06 Mar 2019 15:09

Tgt Ion: 106 Resp: 120564

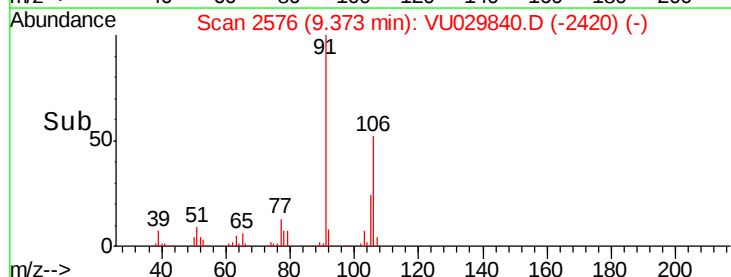
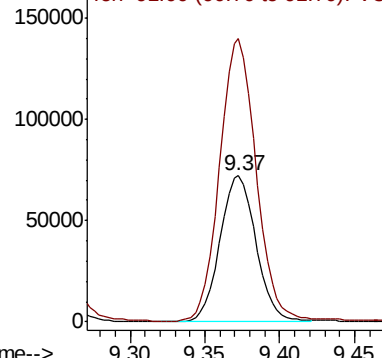
Ion Ratio Lower Upper

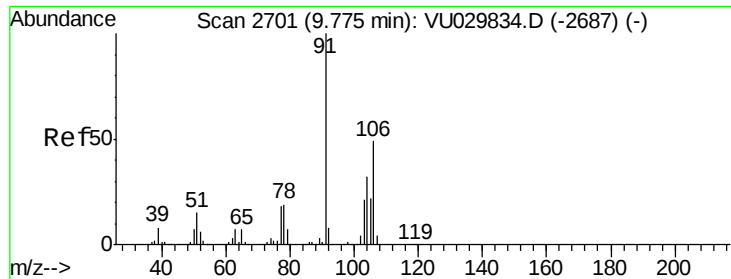
106 100

91 196.0 155.3 232.9



Abundance Ion 106.00 (105.70 to 106.70): VU029840.D (-2420) (-)



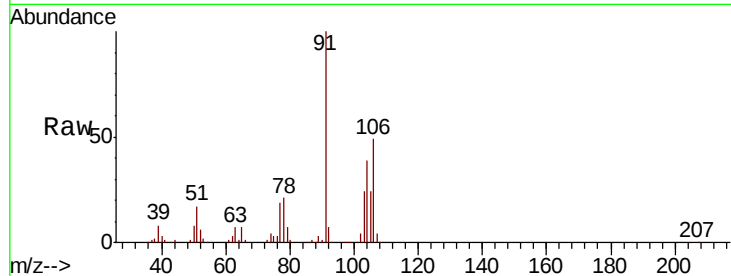


#65
o-Xylene
Concen: 1.948 ug/l
RT: 9.78 min Scan# 2702
Delta R.T. 0.00 min
Lab File: VU029840.D
Acq: 06 Mar 2019 15:09

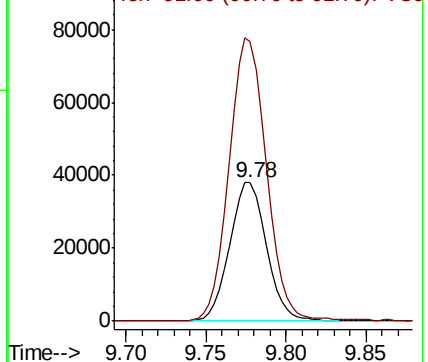
Instrument :
MSVOA_U
ClientSampleId :
VU0307WBS01

Tgt Ion:106 Resp: 59550
Ion Ratio Lower Upper
106 100
91 208.3 102.8 308.3

Manual Integrations
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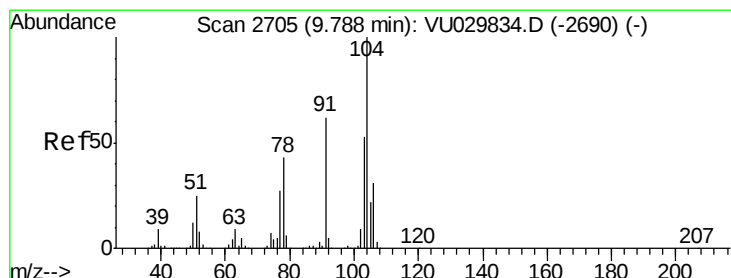
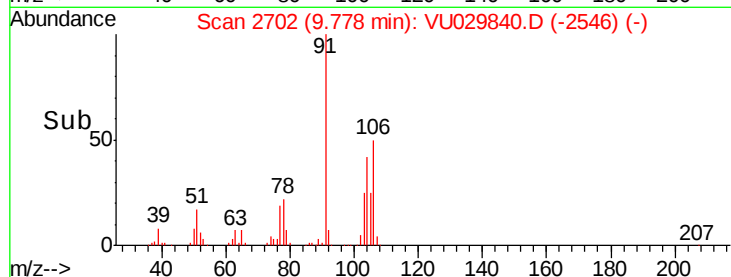


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0



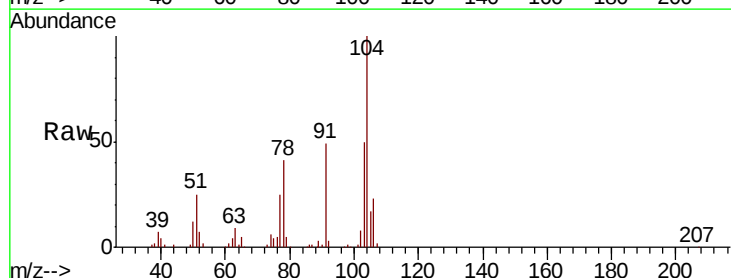
MMDadoda

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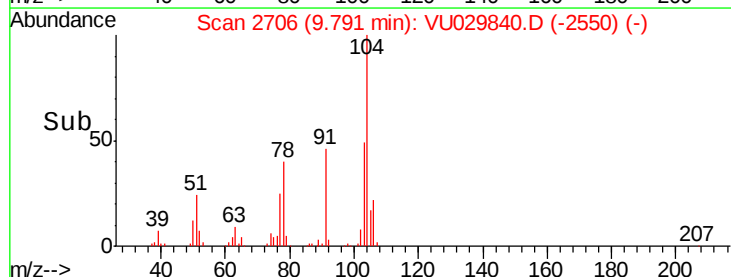
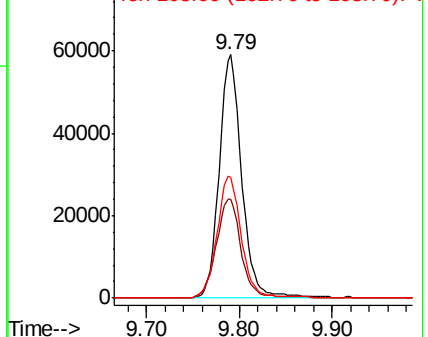


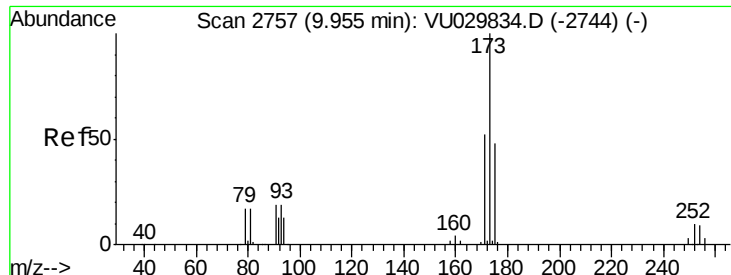
#66
Styrene
Concen: 1.958 ug/l
RT: 9.79 min Scan# 2706
Delta R.T. 0.00 min
Lab File: VU029840.D
Acq: 06 Mar 2019 15:09

Tgt Ion:104 Resp: 99482
Ion Ratio Lower Upper
104 100
78 45.3 37.2 55.8
103 53.3 44.7 67.1



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0
Ion 103.00 (102.70 to 103.70): V





#67

Bromoform

Concen: 1.869 ug/l

RT: 9.96 min Scan# 2758

Delta R.T. 0.00 min

Lab File: VU029840.D

Acq: 06 Mar 2019 15:09

Instrument :

MSVOA_U

ClientSampleId :

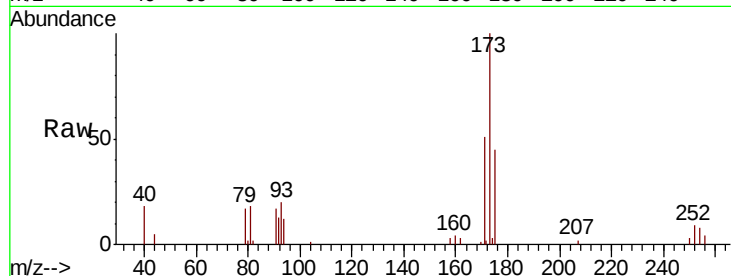
VU0307WBS01

Tgt Ion:	173	Resp:	17625
Ion Ratio	Lower	Upper	
173	100		
175	46.8	38.6	57.8
254	7.9	7.4	11.2

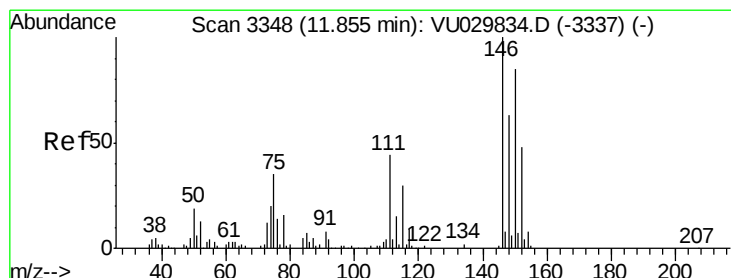
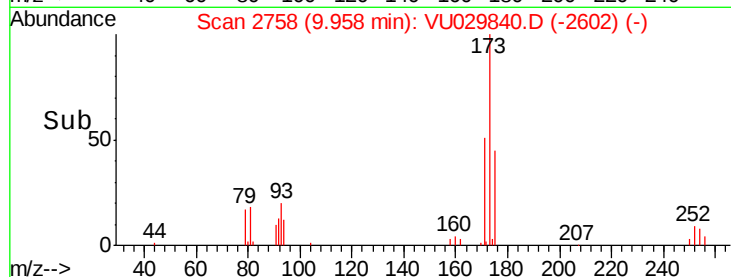
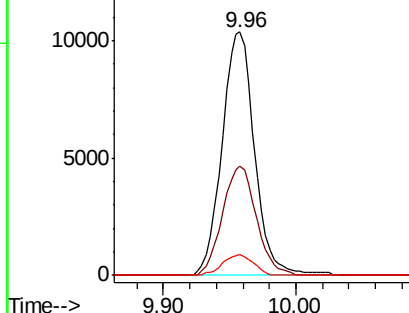
Manual Integrations
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Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 253.75 (253.45 to 254.45): V



#68

1,2-Dichlorobenzene-d4

Concen: 1.869 ug/l

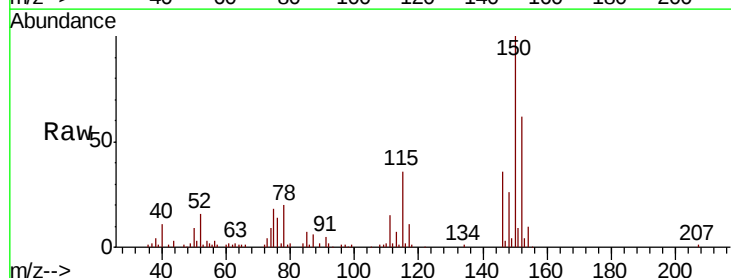
RT: 11.86 min Scan# 3349

Delta R.T. 0.00 min

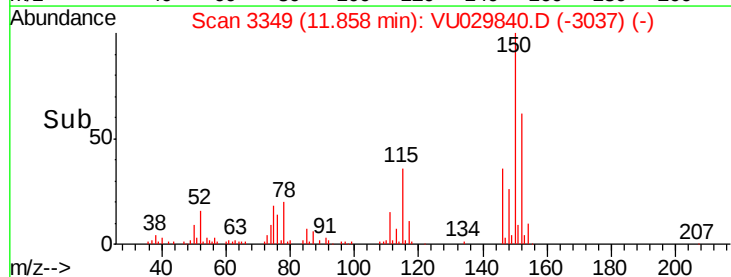
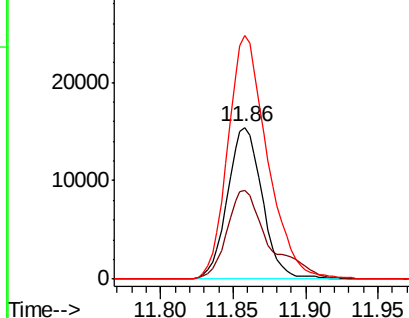
Lab File: VU029840.D

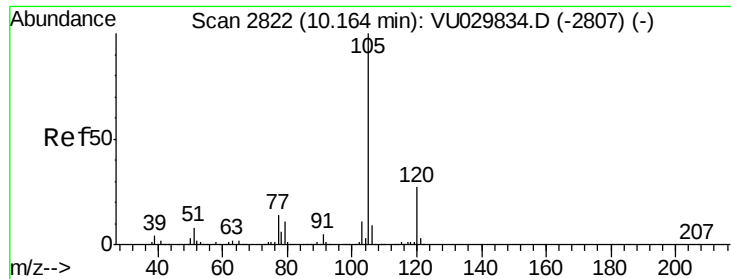
Acq: 06 Mar 2019 15:09

Tgt Ion:	152	Resp:	25661
Ion Ratio	Lower	Upper	
152	100		
115	70.4	0.0	124.0
150	182.5	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: 1.939 ug/l
RT: 10.16 min Scan# 2822
Delta R.T. -0.00 min
Lab File: VU029840.D
Acq: 06 Mar 2019 15:09

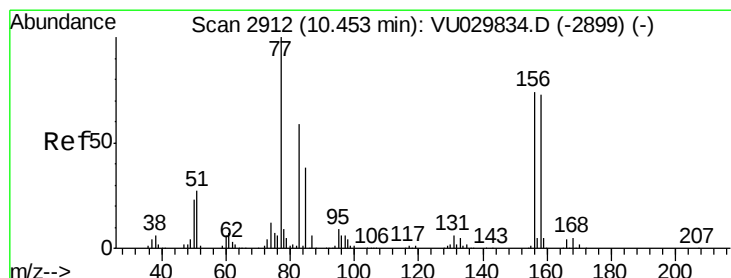
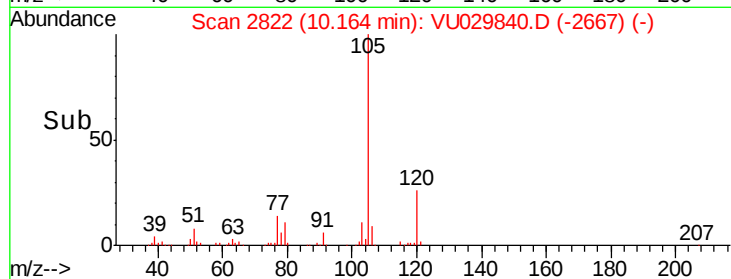
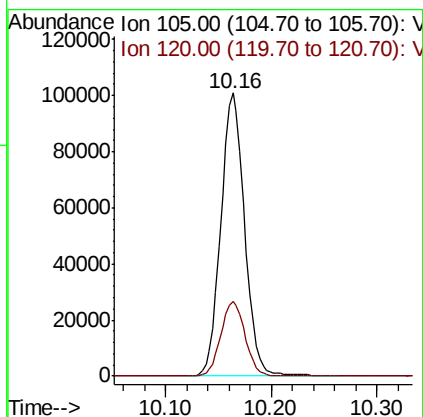
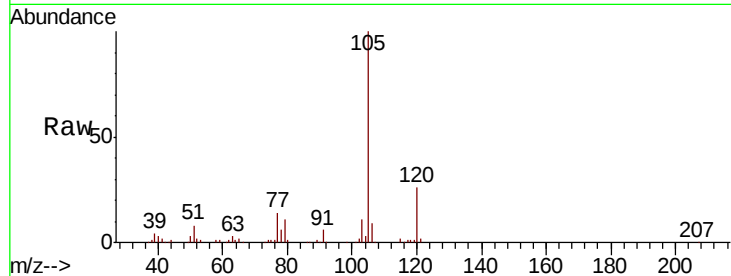
Instrument :
MSVOA_U
ClientSampleId :
VU0307WBS01

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.7	13.5	40.5

Manual Integrations
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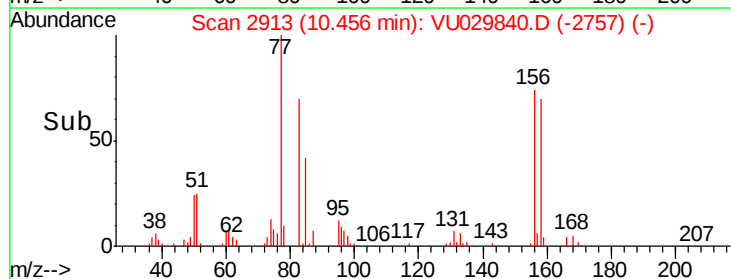
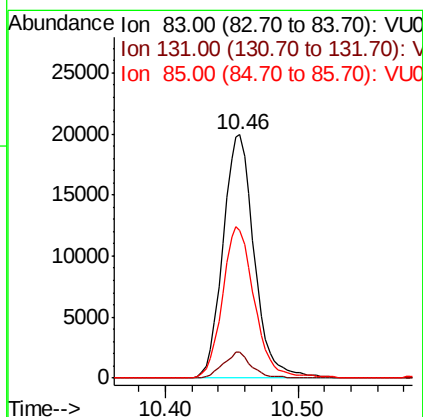
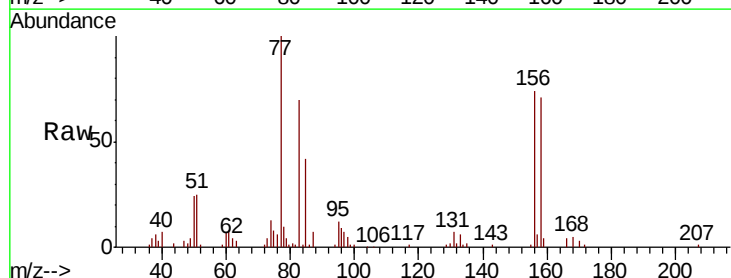
MMDadoda

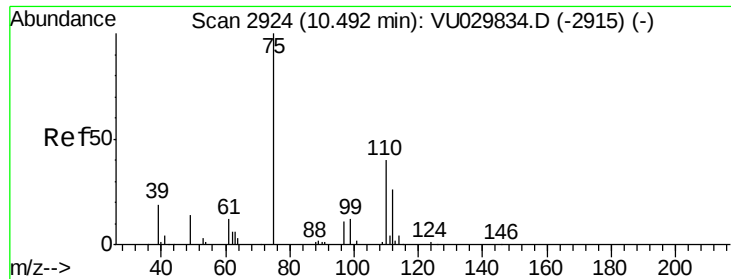
3/11/2019 4:50:34 PM



#70
1,1,2,2-Tetrachloroethane
Concen: 1.979 ug/l
RT: 10.46 min Scan# 2913
Delta R.T. 0.00 min
Lab File: VU029840.D
Acq: 06 Mar 2019 15:09

Tgt Ion	Ratio	Lower	Upper
83	100		
131	9.6	8.3	12.5
85	63.4	52.5	78.7





#71
 1,2,3-Trichloropropane
 Concen: 1.925 ug/l m
 RT: 10.49 min Scan# 2925
 Delta R.T. 0.00 min
 Lab File: VU029840.D
 Acq: 06 Mar 2019 15:09

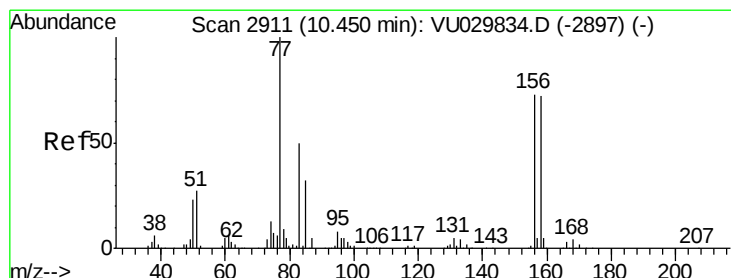
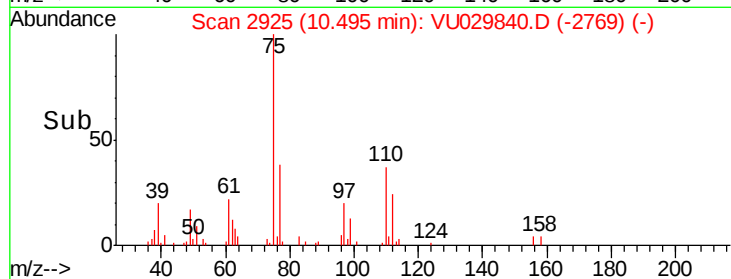
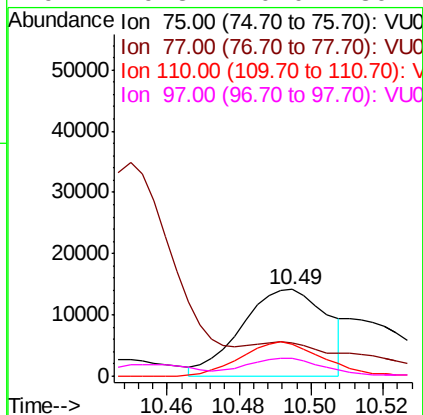
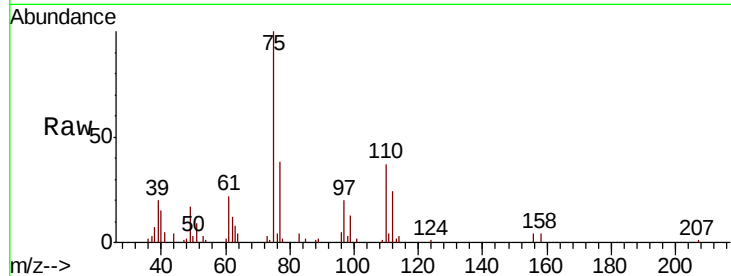
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0307WBS01

Tgt Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	16.4
110	38.3	0.0	74.8
97	19.3	0.0	39.4

Manual Integrations
 APPROVED

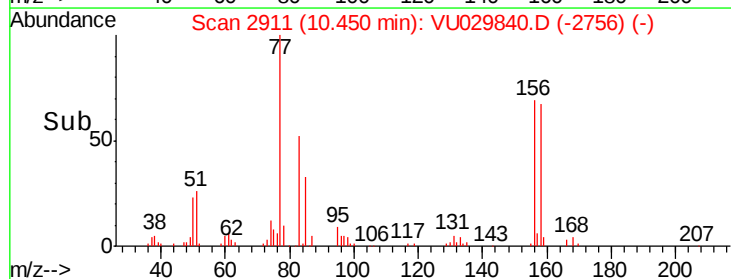
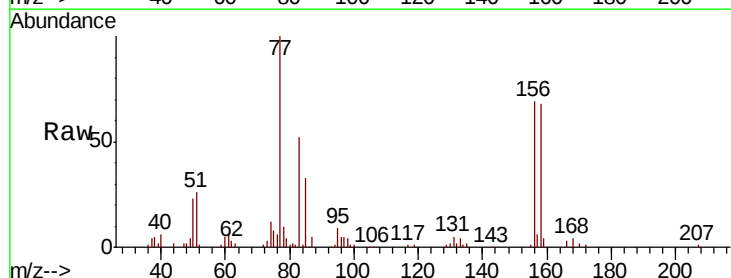
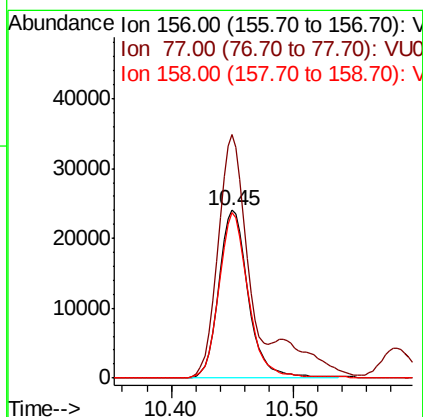
MMMadoda

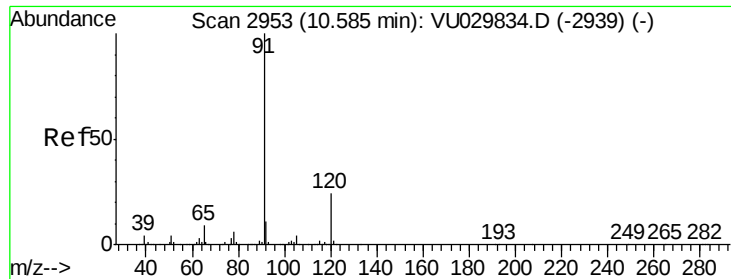
3/11/2019 4:50:34 PM



#72
 Bromobenzene
 Concen: 1.913 ug/l
 RT: 10.45 min Scan# 2911
 Delta R.T. -0.00 min
 Lab File: VU029840.D
 Acq: 06 Mar 2019 15:09

Tgt Ion	Ratio	Lower	Upper
156	100		
77	139.9	0.0	282.2
158	98.2	0.0	196.2





#73
n-propylbenzene
Concen: 1.873 ug/l
RT: 10.58 min Scan# 2953
Delta R.T. -0.00 min
Lab File: VU029840.D
Acq: 06 Mar 2019 15:09

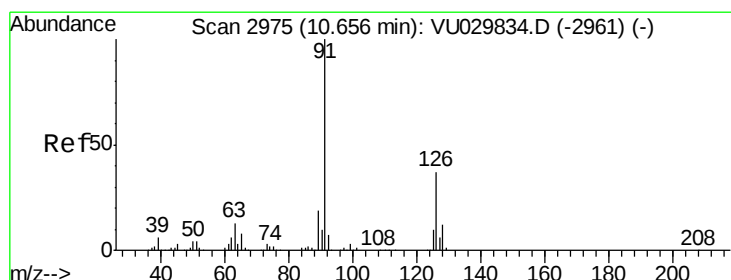
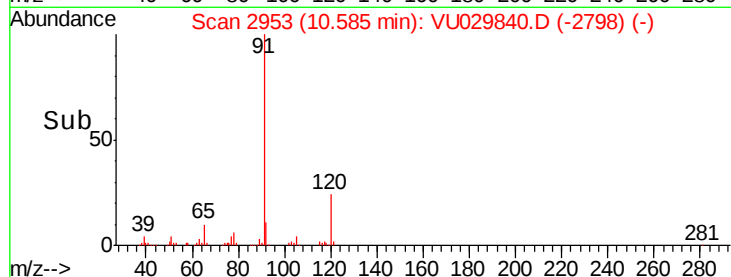
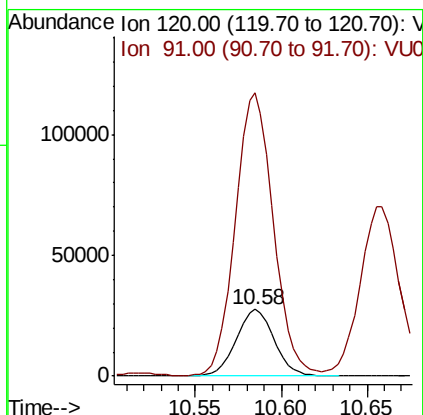
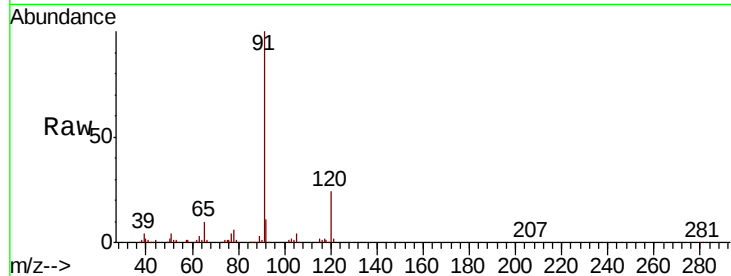
Instrument :
MSVOA_U
ClientSampleId :
VU0307WBS01

Tgt Ion:120 Resp: 42687
Ion Ratio Lower Upper
120 100
91 420.2 333.4 500.2

Manual Integrations
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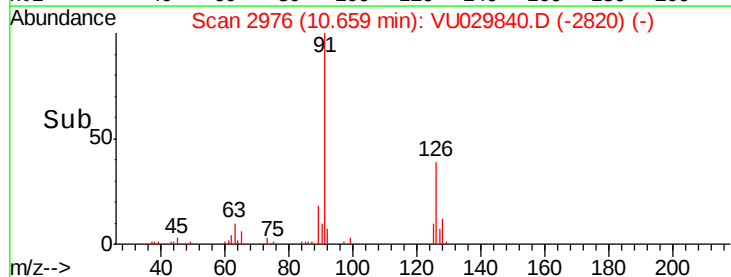
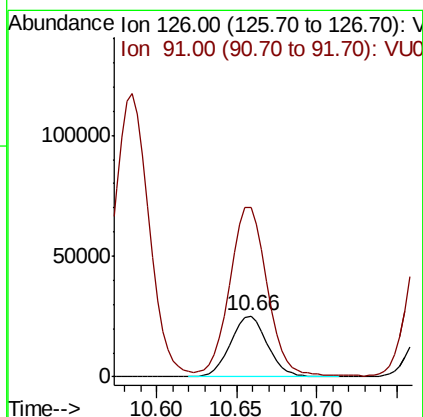
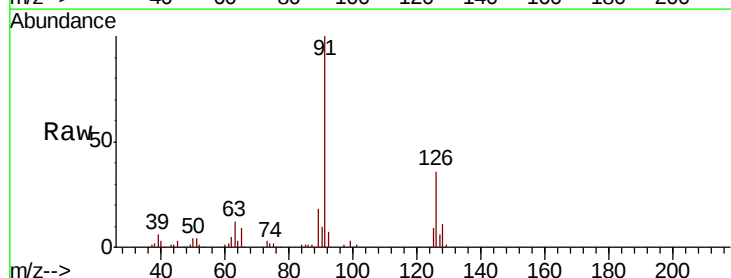
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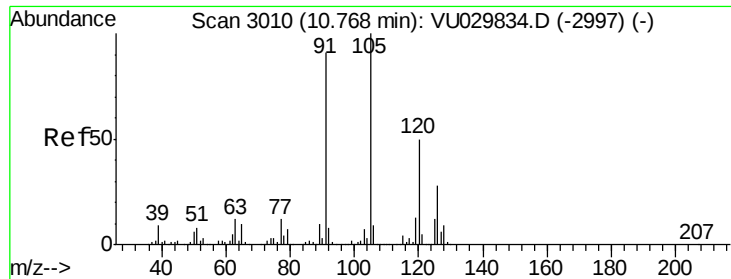
3/11/2019 4:50:34 PM



#74
2-Chlorotoluene
Concen: 1.969 ug/l
RT: 10.66 min Scan# 2976
Delta R.T. 0.00 min
Lab File: VU029840.D
Acq: 06 Mar 2019 15:09

Tgt Ion:126 Resp: 39806
Ion Ratio Lower Upper
126 100
91 275.3 0.0 569.0





#75
 1,3,5-Trimethylbenzene
 Concen: 1.912 ug/l
 RT: 10.77 min Scan# 3010
 Delta R.T. -0.00 min
 Lab File: VU029840.D
 Acq: 06 Mar 2019 15:09

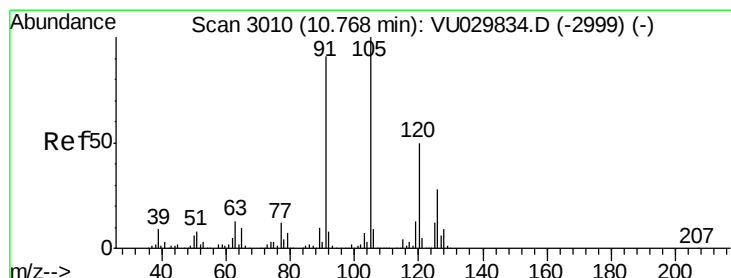
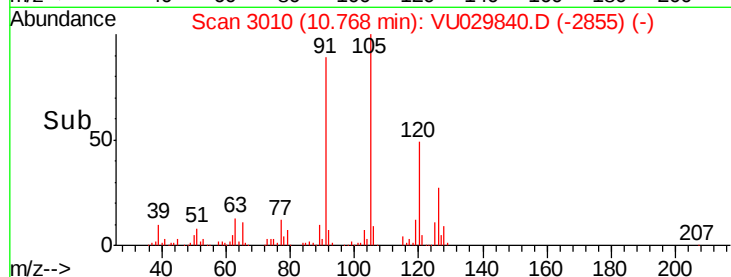
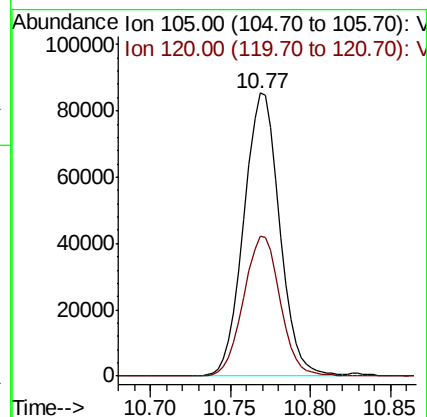
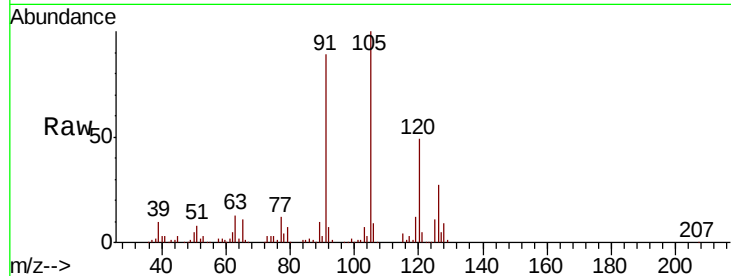
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0307WBS01

Tgt Ion:105 Resp: 130617
 Ion Ratio Lower Upper
 105 100
 120 50.8 40.0 60.0

Manual Integrations
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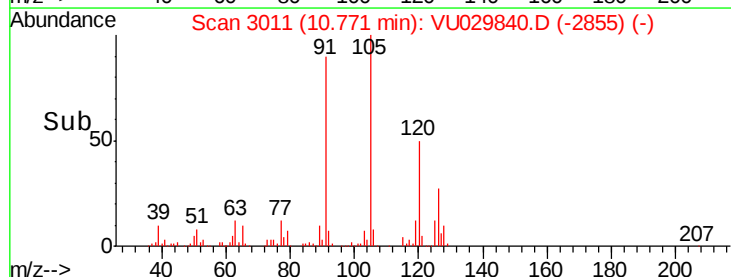
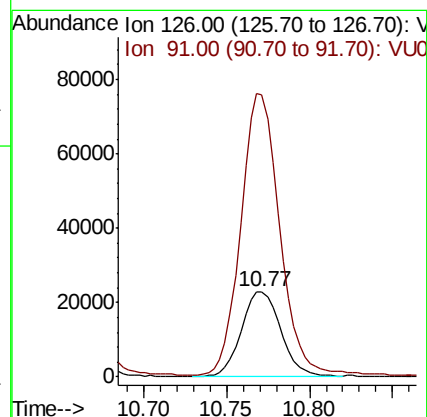
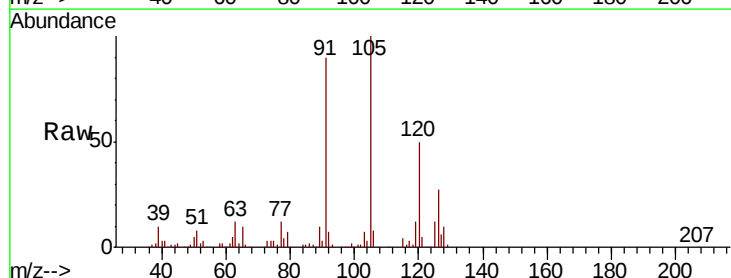
MMDadoda

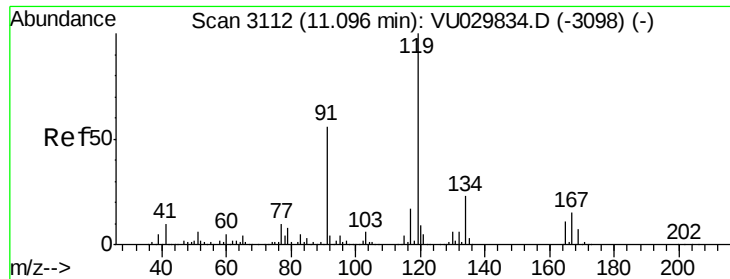
3/11/2019 4:50:34 PM



#76
 4-Chlorotoluene
 Concen: 1.822 ug/l
 RT: 10.77 min Scan# 3011
 Delta R.T. 0.00 min
 Lab File: VU029840.D
 Acq: 06 Mar 2019 15:09

Tgt Ion:126 Resp: 37574
 Ion Ratio Lower Upper
 126 100
 91 334.1 0.0 634.8





#77
 tert-Butylbenzene
 Concen: 1.914 ug/l
 RT: 11.10 min Scan# 3112
 Delta R.T. -0.00 min
 Lab File: VU029840.D
 Acq: 06 Mar 2019 15:09

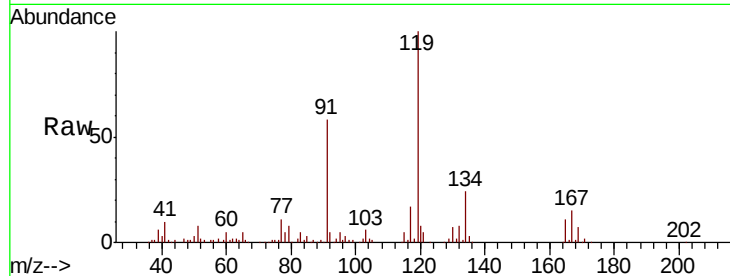
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0307WBS01

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	129323		
91	56.8	27.7	83.1	
134	23.3	18.7	28.1	

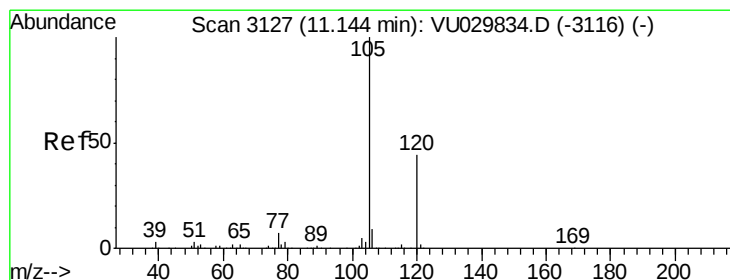
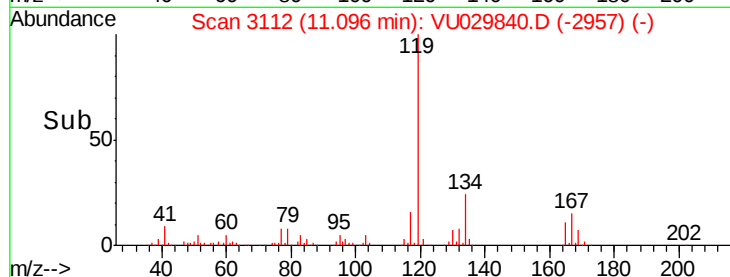
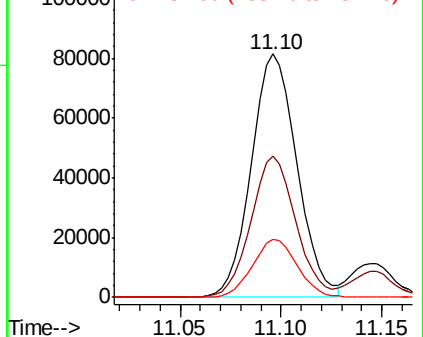
Manual Integrations
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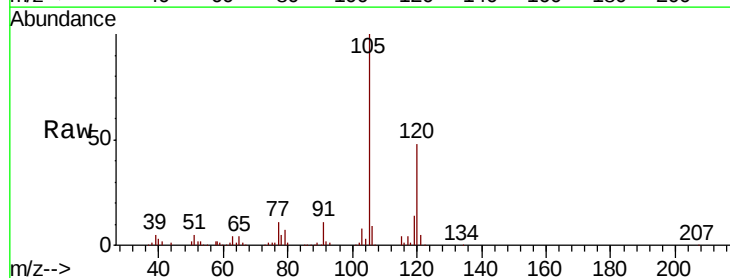


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): VU0
 Ion 134.00 (133.70 to 134.70): V

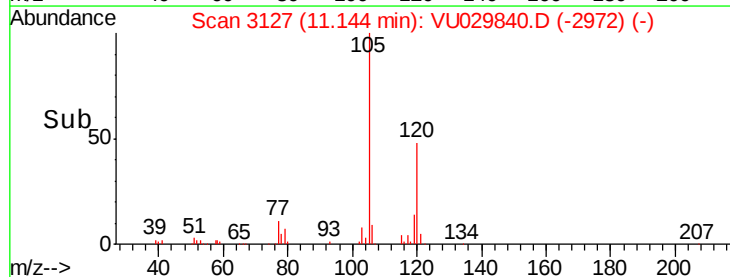
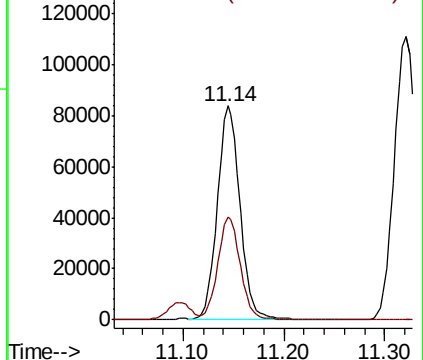


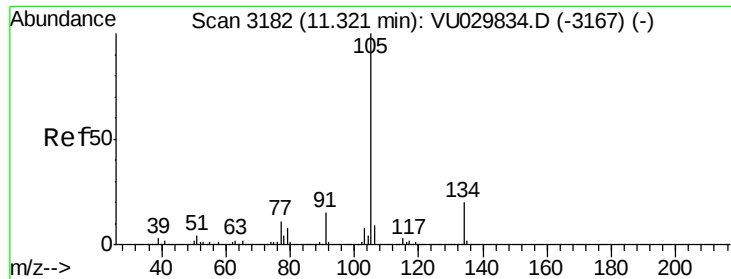
#78
 1,2,4-Trimethylbenzene
 Concen: 1.912 ug/l
 RT: 11.14 min Scan# 3127
 Delta R.T. -0.00 min
 Lab File: VU029840.D
 Acq: 06 Mar 2019 15:09

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	131991		
120	48.1	23.5	70.5	



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





#79

sec-Butylbenzene

Concen: 1.952 ug/l

RT: 11.32 min Scan# 3182

Delta R.T. -0.00 min

Lab File: VU029840.D

Acq: 06 Mar 2019 15:09

Instrument :

MSVOA_U

ClientSampleId :

VU0307WBS01

Tgt Ion: 105 Resp: 174813

Ion Ratio Lower Upper

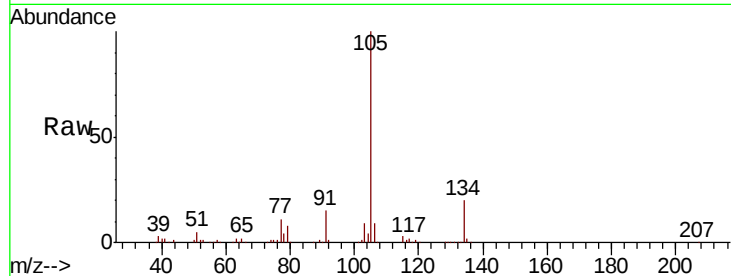
105 100

134 20.0 16.3 24.5

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

11.32

120000

100000

80000

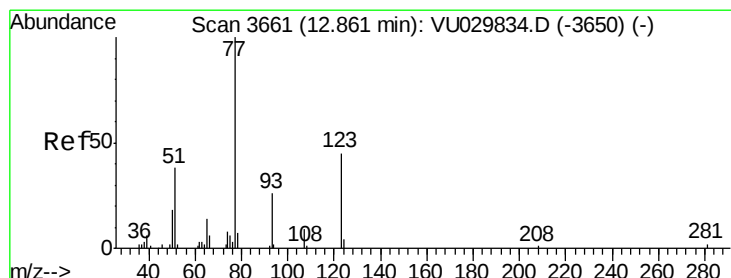
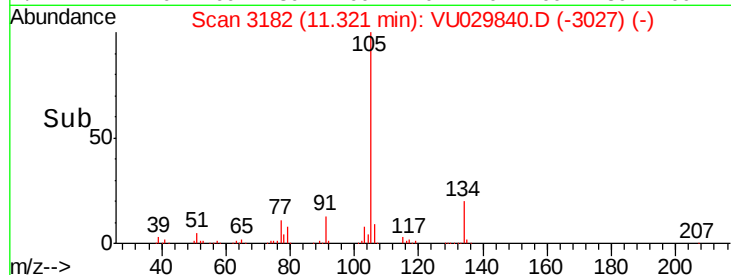
60000

40000

20000

0

Time-->



#80

Nitrobenzene

Concen: 5.680 ug/l m

RT: 12.88 min Scan# 3667

Delta R.T. 0.02 min

Lab File: VU029840.D

Acq: 06 Mar 2019 15:09

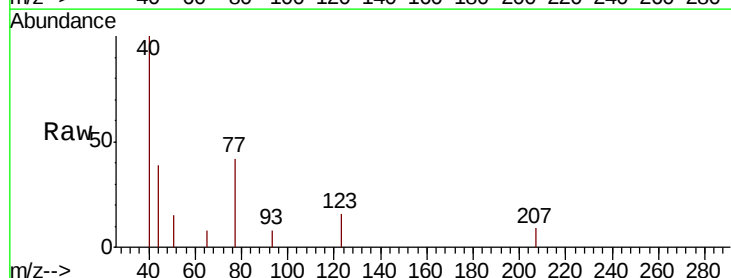
Tgt Ion: 77 Resp: 1701

Ion Ratio Lower Upper

77 100

123 39.7 20.2 71.4

65 4.6 14.0 17.8#



Abundance Ion 77.00 (76.70 to 77.70): VU0

Ion 123.00 (122.70 to 123.70): V

Ion 65.00 (64.70 to 65.70): VU0

12.88

1000

800

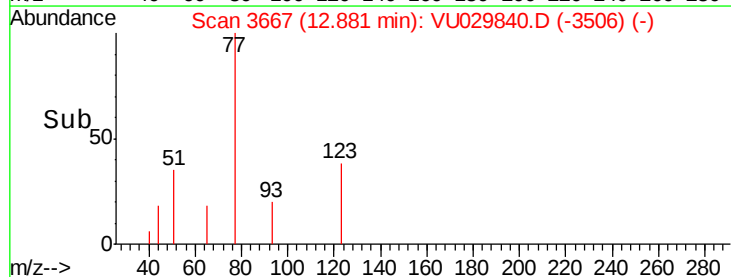
600

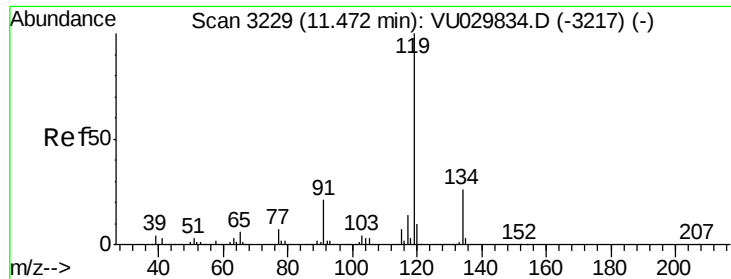
400

200

0

Time-->





#81
p-Isopropyltoluene
Concen: 1.900 ug/l
RT: 11.47 min Scan# 3229
Delta R.T. -0.00 min
Lab File: VU029840.D
Acq: 06 Mar 2019 15:09

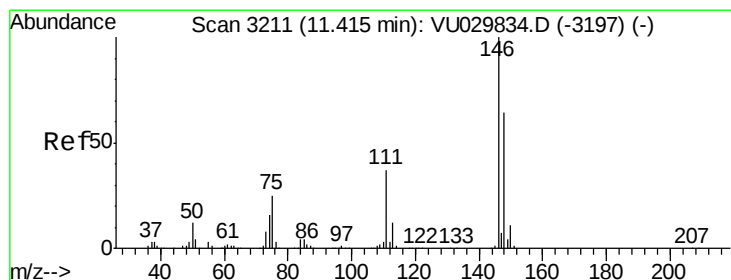
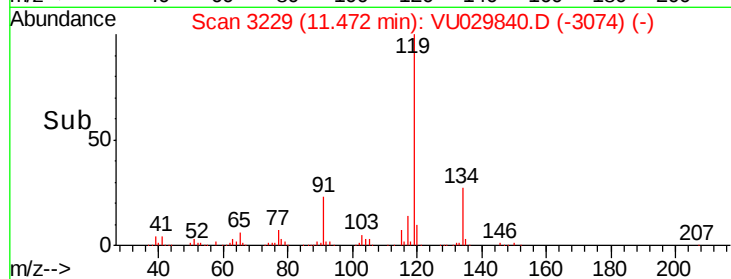
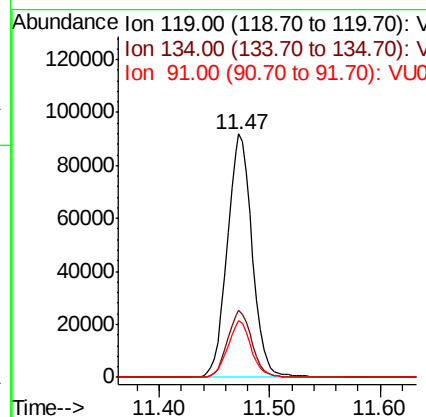
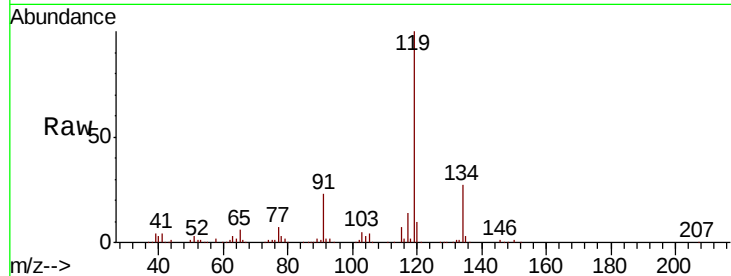
Instrument :
MSVOA_U
ClientSampleId :
VU0307WBS01

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.9	21.2	31.8
91	22.4	17.2	25.8

Manual Integrations
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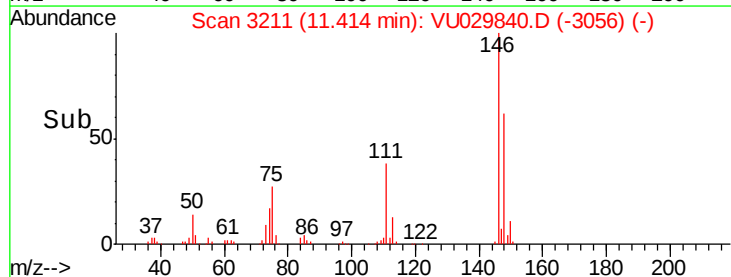
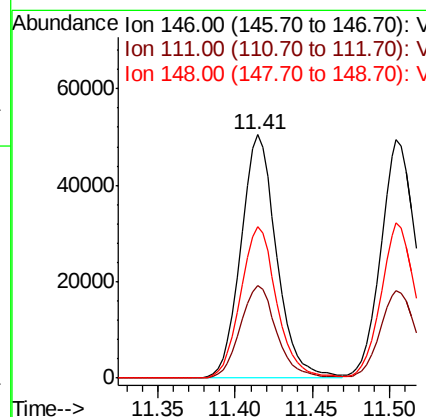
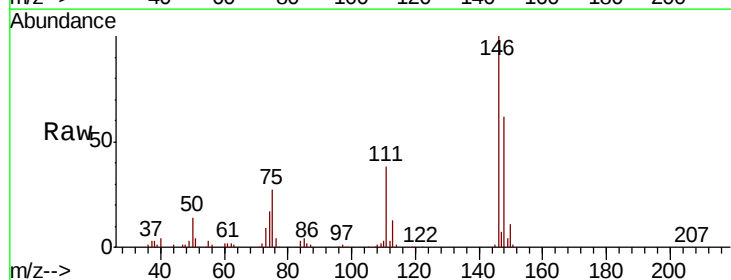
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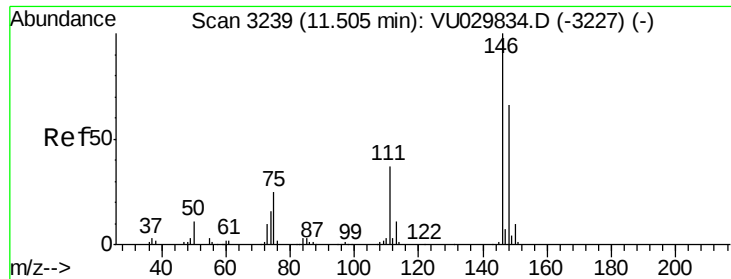
3/11/2019 4:50:34 PM



#82
1,3-Dichlorobenzene
Concen: 1.903 ug/l
RT: 11.41 min Scan# 3211
Delta R.T. -0.00 min
Lab File: VU029840.D
Acq: 06 Mar 2019 15:09

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.7	30.2	45.4
148	63.0	51.2	76.8





#83
 1,4-Dichlorobenzene
 Concen: 1.957 ug/l
 RT: 11.50 min Scan# 3239
 Delta R.T. -0.00 min
 Lab File: VU029840.D
 Acq: 06 Mar 2019 15:09

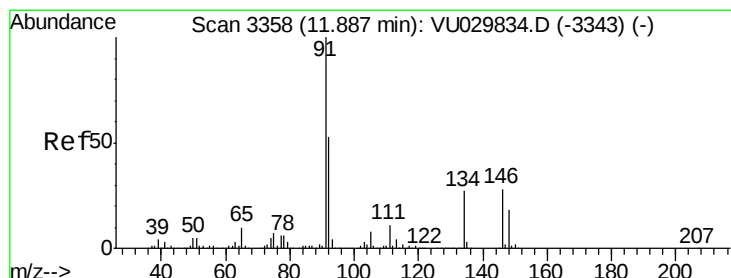
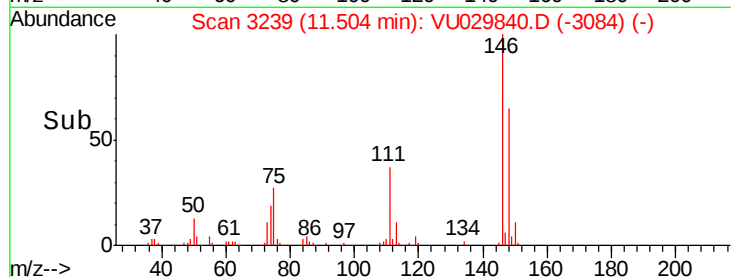
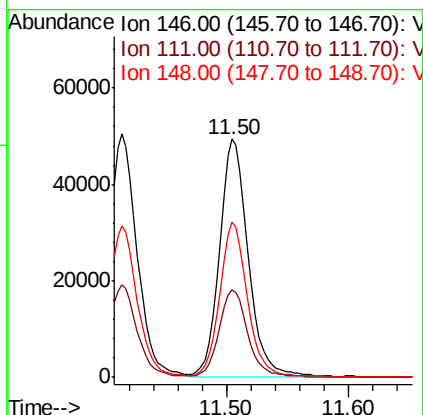
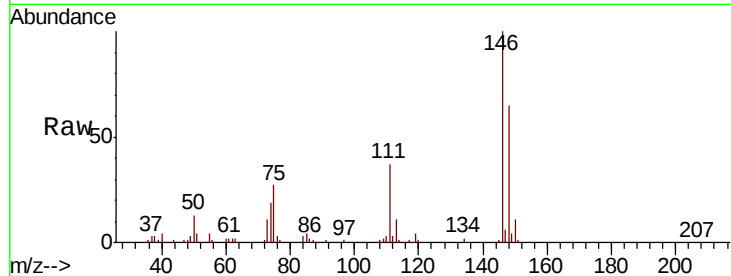
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0307WBS01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.9	29.4	44.2
148	61.9	51.7	77.5

Manual Integrations
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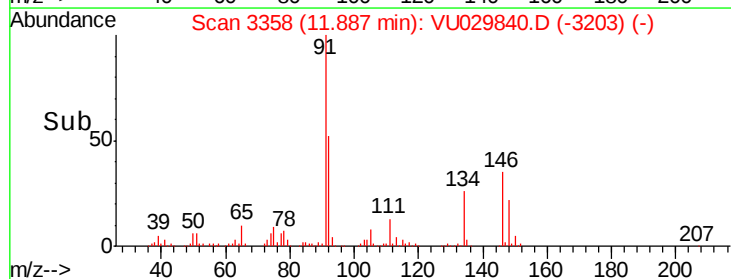
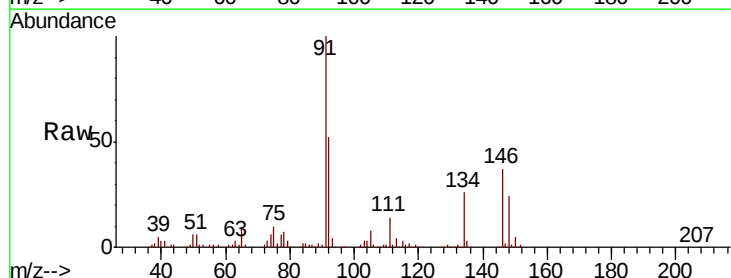
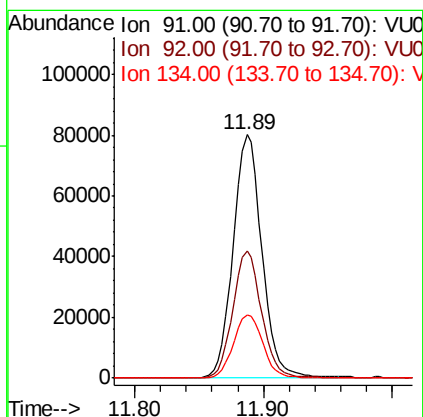
MMDadoda

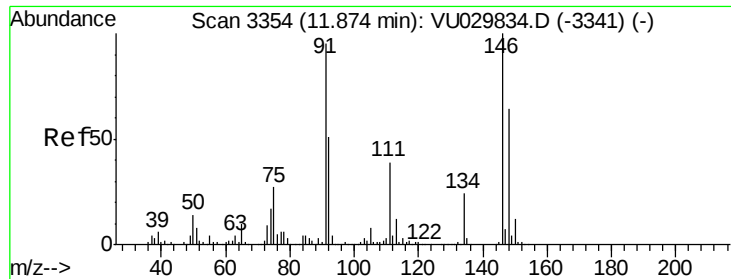
3/11/2019 4:50:34 PM



#84
 n-Butylbenzene
 Concen: 1.823 ug/l
 RT: 11.89 min Scan# 3358
 Delta R.T. -0.00 min
 Lab File: VU029840.D
 Acq: 06 Mar 2019 15:09

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.1	42.6	63.8
134	26.5	21.7	32.5





#85
 1,2-Dichlorobenzene
 Concen: 1.895 ug/l
 RT: 11.88 min Scan# 3355
 Delta R.T. 0.00 min
 Lab File: VU029840.D
 Acq: 06 Mar 2019 15:09

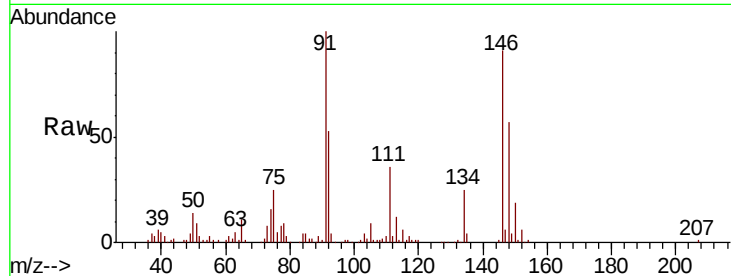
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0307WBS01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.1	19.9	59.6
148	64.2	32.1	96.3

Manual Integrations
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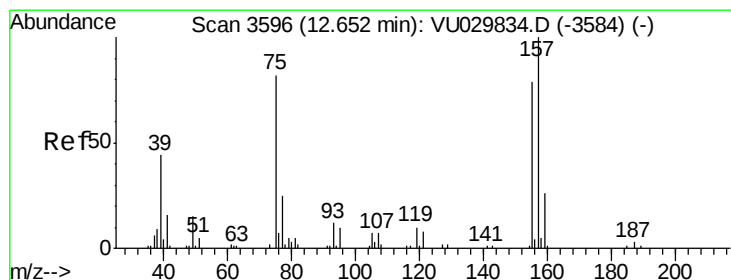
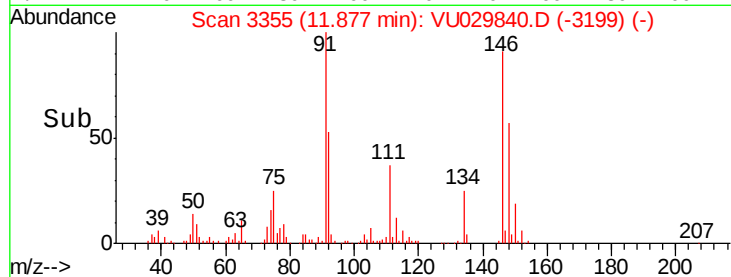
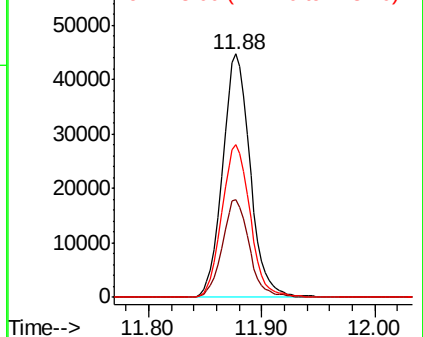


Abundance

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



#86
 1,2-Dibromo-3-Chloropropane
 Concen: 1.815 ug/l
 RT: 12.66 min Scan# 3597
 Delta R.T. 0.00 min
 Lab File: VU029840.D
 Acq: 06 Mar 2019 15:09

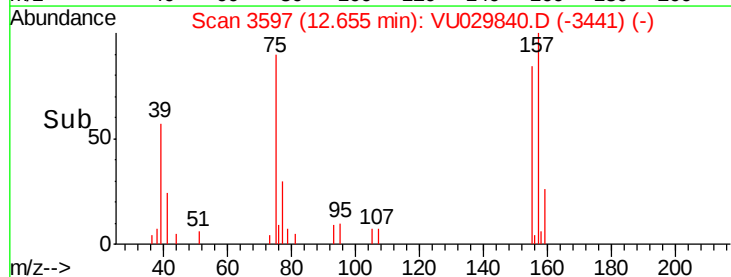
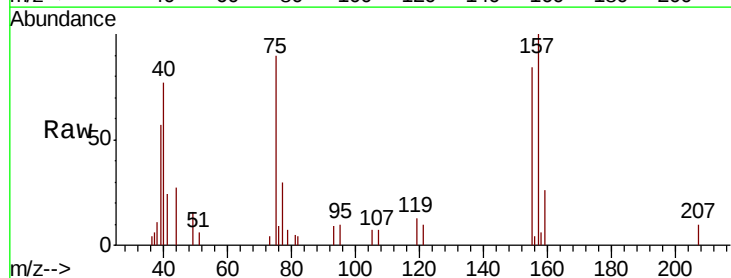
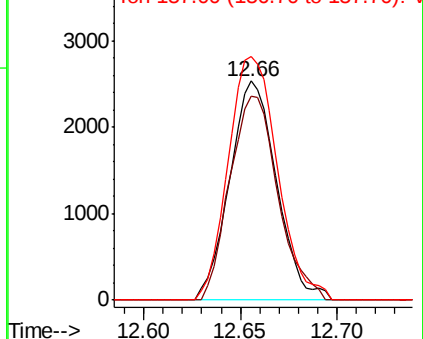
Tgt Ion	Ratio	Lower	Upper
75	100		
155	95.6	76.6	114.8
157	116.9	96.2	144.2

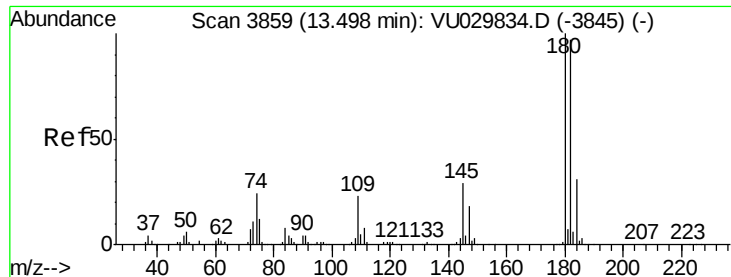
Abundance

Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V





#87

1,2,4-Trichlorobenzene

Concen: 1.843 ug/l

RT: 13.50 min Scan# 3860

Delta R.T. 0.00 min

Lab File: VU029840.D

Acq: 06 Mar 2019 15:09

Instrument :

MSVOA_U

ClientSampleId :

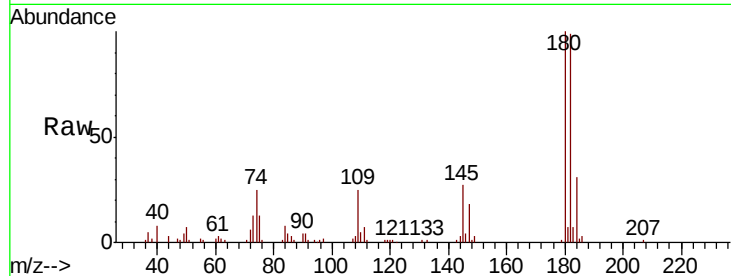
VU0307WBS01

Tgt Ion:	180	Resp:	47303
Ion Ratio	Lower	Upper	
180	100		
182	98.1	77.5	116.3
145	27.0	23.6	35.4

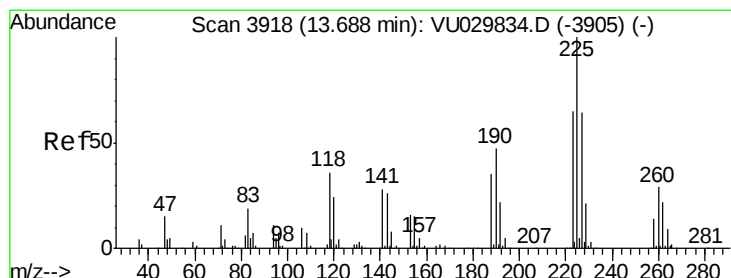
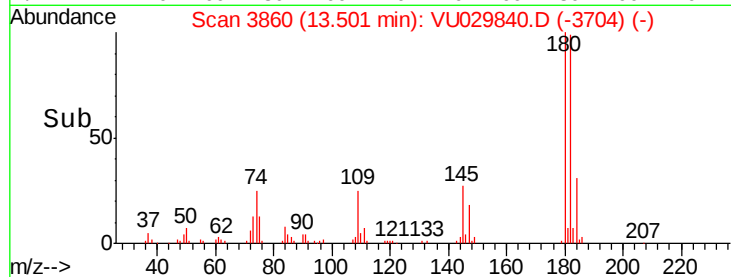
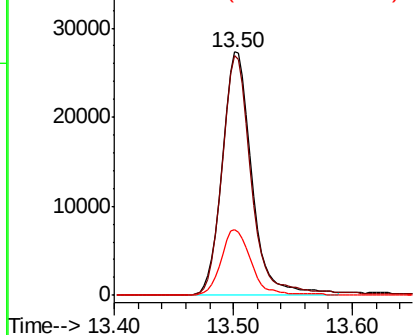
Manual Integrations
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Abundance Ion 179.70 (179.40 to 180.40): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V



#88

Hexachlorobutadiene

Concen: 1.844 ug/l

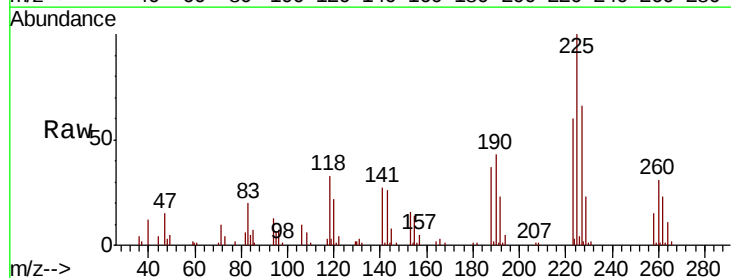
RT: 13.69 min Scan# 3919

Delta R.T. 0.00 min

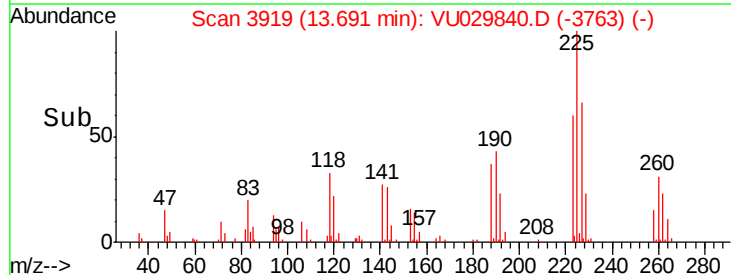
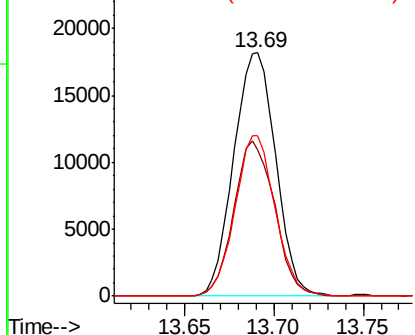
Lab File: VU029840.D

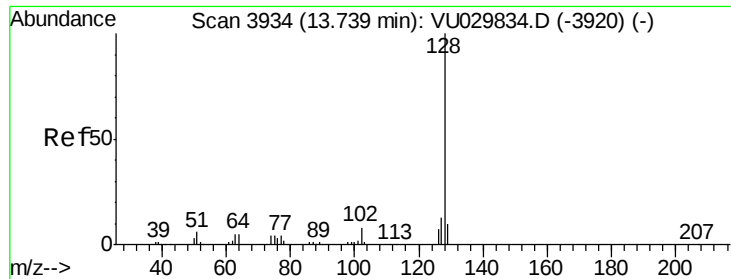
Acq: 06 Mar 2019 15:09

Tgt Ion:	225	Resp:	29819
Ion Ratio	Lower	Upper	
225	100		
223	61.7	51.2	76.8
227	62.9	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: 1.772 ug/l
RT: 13.74 min Scan# 3935
Delta R.T. 0.00 min
Lab File: VU029840.D
Acq: 06 Mar 2019 15:09

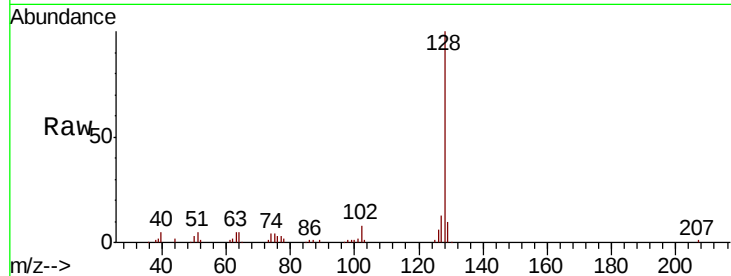
Instrument :
MSVOA_U
ClientSampleId :
VU0307WBS01

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.2	15.4
129	10.6	8.2	12.4

Manual Integrations
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3/11/2019 4:50:34 PM

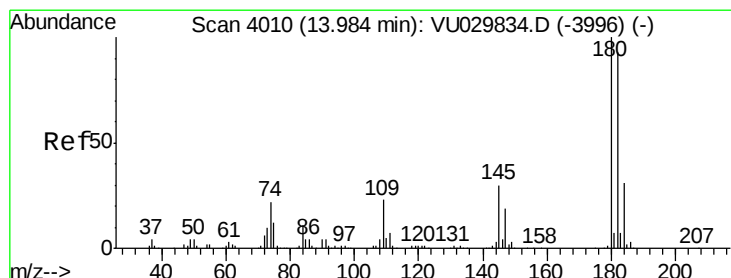
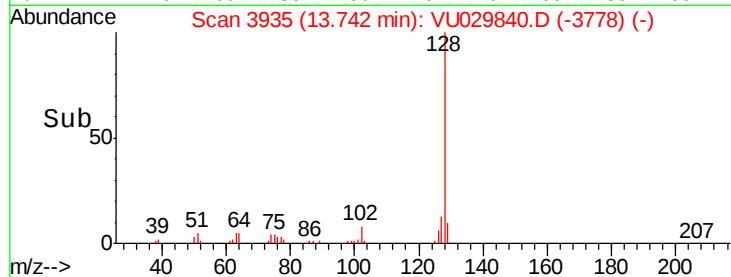
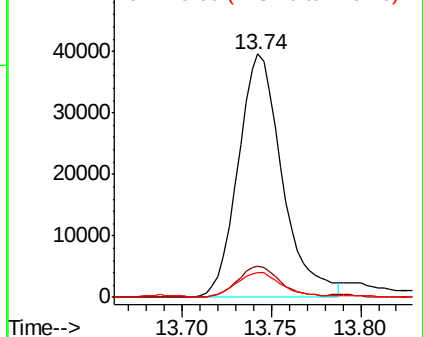


Abundance

Ion 128.00 (127.70 to 128.70): V

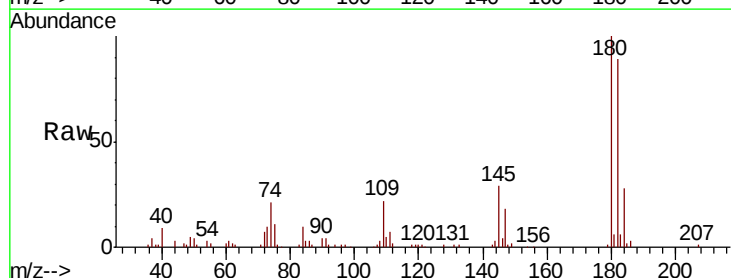
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#90
1,2,3-Trichlorobenzene
Concen: 1.934 ug/l
RT: 13.99 min Scan# 4011
Delta R.T. 0.00 min
Lab File: VU029840.D
Acq: 06 Mar 2019 15:09

Tgt Ion	Ratio	Lower	Upper
180	100		
182	91.3	74.8	112.2
145	28.6	24.6	36.8



Abundance

Ion 179.70 (179.40 to 180.40): V

Ion 181.70 (181.40 to 182.40): V

Ion 144.80 (144.50 to 145.50): V

