

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU031419\
 Data File : VU030012.D
 Acq On : 12 Mar 2019 17:40
 Operator : JC/SP
 Sample : VU0314WBSD01
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0314WBSD01

Manual Integrations
 APPROVED

Quant Time: Mar 13 06:50:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U031419DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Wed Mar 13 04:21:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	5.74	96	59289	1.00	ug/l	0.00

System Monitoring Compounds

57) 4-Bromofluorobenzene	10.31	95	20919	0.97	ug/l	0.00
Spiked Amount 1.000			Recovery	=	97.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	24420	1.00	ug/l	0.00
Spiked Amount 1.000			Recovery	=	100.00%	

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Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.21	85	41507	1.909	ug/l	98
3) Chloromethane	1.33	50	46962	1.904	ug/l	97
4) Vinyl Chloride	1.40	62	40844	1.932	ug/l	100
5) Bromomethane	1.63	94	23966	1.983	ug/l	97
6) Chloroethane	1.70	64	23979	1.964	ug/l	96
7) Trichlorofluoromethane	1.88	101	54442	1.985	ug/l	99
8) 1,1,2-Trichloro-1,2,2-trif	2.29	101	28121	1.885	ug/l	97
9) 1,1-Dichloroethene	2.28	96	29327	1.982	ug/l	95
10) Iodomethane	2.41	142	20781	1.621	ug/l	97
11) Allyl Chloride	2.59	41	39921	1.908	ug/l	98
12) Acrylonitrile	2.93	53	13876	4.331	ug/l	95
13) Acetone	2.32	43	25235	9.047	ug/l	94
14) Carbon Disulfide	2.48	76	94068	1.825	ug/l	99
15) Methylene Chloride	2.70	84	35485	2.015	ug/l	97
16) trans-1,2-Dichloroethene	2.98	96	32977	1.930	ug/l	96
17) 1,1-Dichloroethane	3.44	63	56253	1.948	ug/l	98
18) 2-Butanone	4.28	43	35812	9.274	ug/l	99
19) Cyclohexane	4.98	56	45741m	1.849	ug/l	
20) Methylcyclohexane	6.41	83	49620	1.817	ug/l	96
21) 2,2-Dichloropropane	4.22	77	44036	1.813	ug/l	97
22) cis-1,2-Dichloroethene	4.22	96	37307	1.964	ug/l	96
23) Diethyl Ether	2.10	59	21946	1.986	ug/l	98
24) tert-Butyl Alcohol	2.83	59	24596	20.793	ug/l	99
25) Methyl tert-Butyl Ether	3.00	73	74439	1.993	ug/l	96
26) Bromochloromethane	4.55	128	16067	1.934	ug/l	97
27) Chloroform	4.67	83	57041	1.877	ug/l	100
28) 1,1,1-Trichloroethane	4.91	97	49688	1.988	ug/l	99
29) 1,1-Dichloropropene	5.13	75	42222	1.855	ug/l	99
30) Carbon Tetrachloride	5.13	117	41520	1.858	ug/l	98
31) Isopropyl Ether	3.57	45	76813	1.890	ug/l	98
32) Ethyl-t-butyl ether	4.07	59	77135	1.970	ug/l	98
33) Tert-Amyl methyl ether	5.58	73	68667	1.916	ug/l	98
34) Propionitrile	4.33	54	10648	9.892	ug/l #	95
35) Benzene	5.39	78	128974	1.937	ug/l	100
36) 1,2-Dichloroethane	5.40	62	33796	1.898	ug/l	98
37) Trichloroethene	6.18	130	37426	1.951	ug/l	94
38) 1,2-Dichloropropane	6.43	63	32475	1.918	ug/l	100
39) Methacrylonitrile	4.55	41	9216	1.963	ug/l #	88
40) Methyl acrylate	4.43	55	12972	1.749	ug/l #	99
41) Tetrahydrofuran	4.65	42	8797	3.388	ug/l	96
42) 1-Chlorobutane	5.06	56	54968	1.844	ug/l	99

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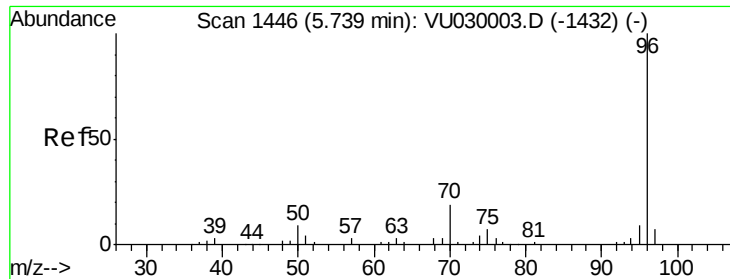
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0314WBSD01

Manual Integrations
 APPROVED

Quant Time: Mar 13 06:50:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U031419DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Wed Mar 13 04:21:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Dibromomethane	6.56	93	17305	1.976	ug/l	96
44) Bromodichloromethane	6.76	83	40409	1.934	ug/l	95
45) 4-Methyl-2-Pentanone	7.46	43	84080	9.717	ug/l	100
46) t-1,4-Dichloro-2-butene	10.51	75	13142m	4.177	ug/l	
47) Methyl methacrylate	6.63	69	27875	3.799	ug/l	97
48) Ethyl methacrylate	8.02	69	27492	1.987	ug/l	98
49) Toluene	7.63	92	77734	1.937	ug/l	98
50) t-1,3-Dichloropropene	7.88	75	35631	1.904	ug/l	97
51) cis-1,3-Dichloropropene	7.27	75	43270	1.840	ug/l	99
52) 1,1,2-Trichloroethane	8.06	97	24552	1.983	ug/l	95
53) 1,3-Dichloropropane	8.24	76	40859	1.973	ug/l	99
54) 2-Hexanone	8.37	43	60705	9.737	ug/l	97
55) Dibromochloromethane	8.48	129	29235	1.963	ug/l	98
56) 1,2-Dibromoethane	8.58	107	23180	1.945	ug/l	97
58) Tetrachloroethene	8.22	164	33720	1.936	ug/l	99
59) Chlorobenzene	9.12	112	89716	1.957	ug/l	100
60) 1,1,1,2-Tetrachloroethane	9.21	131	31570	1.949	ug/l	98
61) Pentachloroethane	11.10	117	23890	1.911	ug/l	94
62) Hexachloroethane	12.14	117	23401	1.858	ug/l	95
63) Ethyl Benzene	9.25	91	142584	1.894	ug/l	99
64) m/p-Xylenes	9.37	106	113910	3.845	ug/l	100
65) o-Xylene	9.77	106	54088	1.861	ug/l	97
66) Styrene	9.79	104	91216	1.915	ug/l	99
67) Bromoform	9.96	173	15771	1.853	ug/l	99
69) Isopropylbenzene	10.16	105	145912	1.926	ug/l	99
70) 1,1,2,2-Tetrachloroethane	10.45	83	31078	2.037	ug/l	96
71) 1,2,3-Trichloropropane	10.49	75	21751m	1.896	ug/l	
72) Bromobenzene	10.45	156	39108	1.968	ug/l	98
73) n-propylbenzene	10.58	120	41381	1.925	ug/l	97
74) 2-Chlorotoluene	10.66	126	35806	1.902	ug/l	93
75) 1,3,5-Trimethylbenzene	10.77	105	124747	1.933	ug/l	99
76) 4-Chlorotoluene	10.77	126	36609	1.905	ug/l	97
77) tert-Butylbenzene	11.10	119	121674	1.926	ug/l	98
78) 1,2,4-Trimethylbenzene	11.14	105	126225	1.923	ug/l	99
79) sec-Butylbenzene	11.32	105	165324	1.953	ug/l	100
80) Nitrobenzene	12.88	77	1924	7.058	ug/l #	96
81) p-Isopropyltoluene	11.47	119	136641	1.925	ug/l	99
82) 1,3-Dichlorobenzene	11.41	146	78669	1.961	ug/l	99
83) 1,4-Dichlorobenzene	11.50	146	77081	1.911	ug/l	98
84) n-Butylbenzene	11.89	91	122538	1.848	ug/l	99
85) 1,2-Dichlorobenzene	11.88	146	74569	1.997	ug/l	99
86) 1,2-Dibromo-3-Chloropropan	12.65	75	4209	1.915	ug/l	96
87) 1,2,4-Trichlorobenzene	13.50	180	49202	1.826	ug/l	96
88) Hexachlorobutadiene	13.69	225	29684	2.032	ug/l	98
89) Naphthalene	13.74	128	77488	1.835	ug/l	98
90) 1,2,3-Trichlorobenzene	13.98	180	46012	1.884	ug/l	100

(#) = 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: VU030012.D

Acq: 12 Mar 2019 17:40

Instrument :

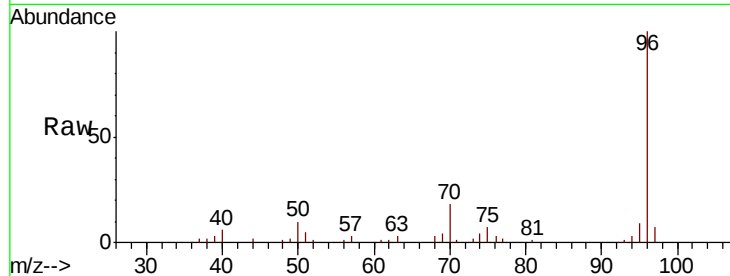
MSVOA_U

ClientSampleId :

VU0314WBSD01

Tgt Ion:	96	Resp:	59289
Ion	Ratio	Lower	Upper
96	100		
70	19.0	15.5	23.3
95	8.9	6.6	9.8
97	6.9	0.0	0.0#

Manual Integrations
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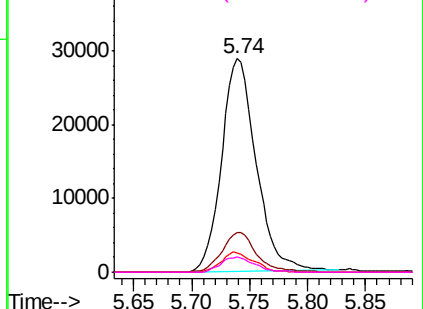
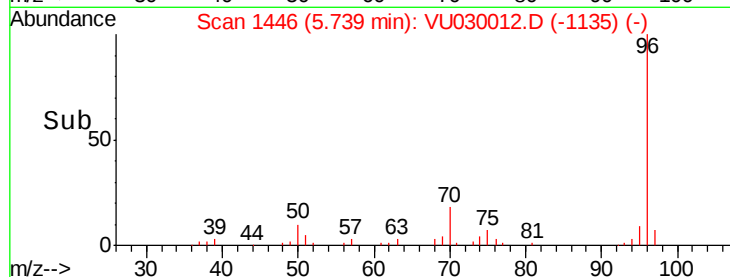


Abundance Ion 96.00 (95.70 to 96.70): VU030012.D (-1135) (-)

Ion 70.00 (69.70 to 70.70): VU030012.D (-1135) (-)

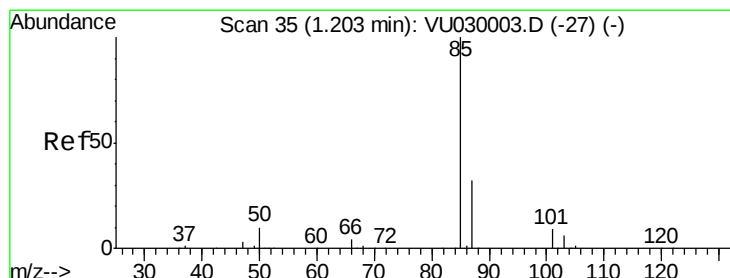
Ion 95.00 (94.70 to 95.70): VU030012.D (-1135) (-)

Ion 97.00 (96.70 to 97.70): VU030012.D (-1135) (-)



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#2

Dichlorodifluoromethane

Concen: 1.909 ug/l

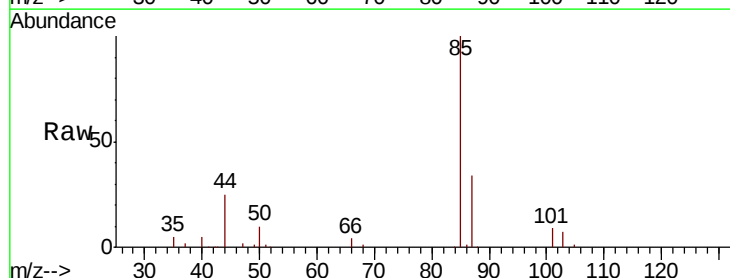
RT: 1.21 min Scan# 36

Delta R.T. 0.00 min

Lab File: VU030012.D

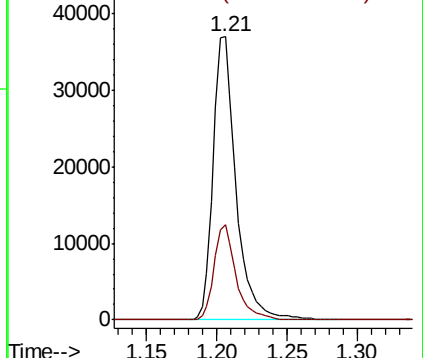
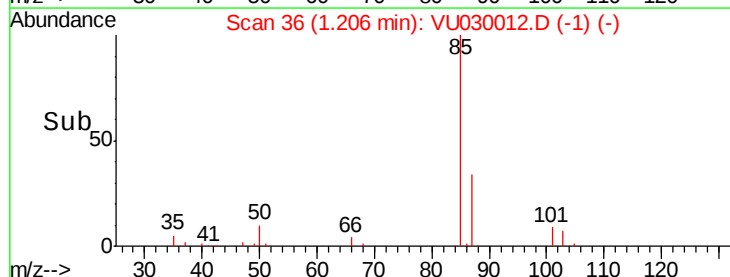
Acq: 12 Mar 2019 17:40

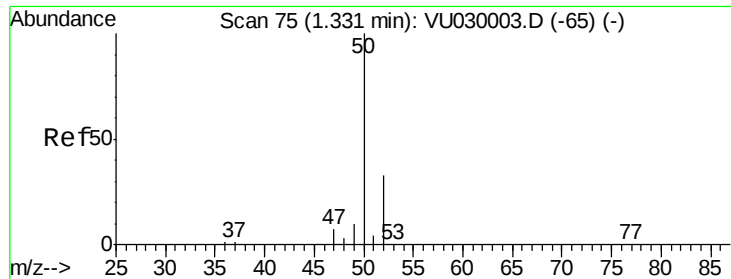
Tgt Ion:	85	Resp:	41507
Ion	Ratio	Lower	Upper
85	100		
87	33.5	16.2	48.6



Abundance Ion 85.00 (84.70 to 85.70): VU030012.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU030012.D (-1) (-)





#3

Chloromethane

Concen: 1.904 ug/l

RT: 1.33 min Scan# 75

Delta R.T. -0.00 min

Lab File: VU030012.D

Acq: 12 Mar 2019 17:40

Instrument :

MSVOA_U

ClientSampleId :

VU0314WBSD01

Tgt Ion: 50 Resp: 46962

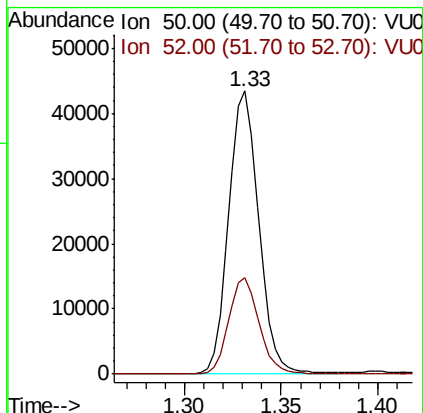
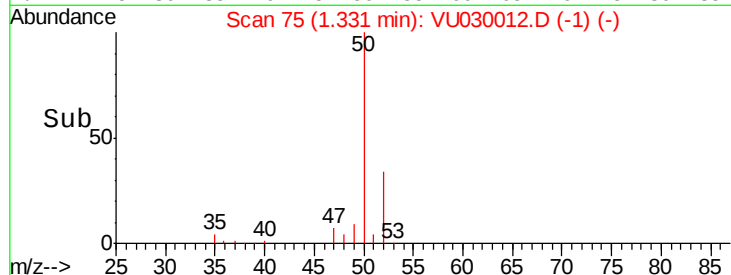
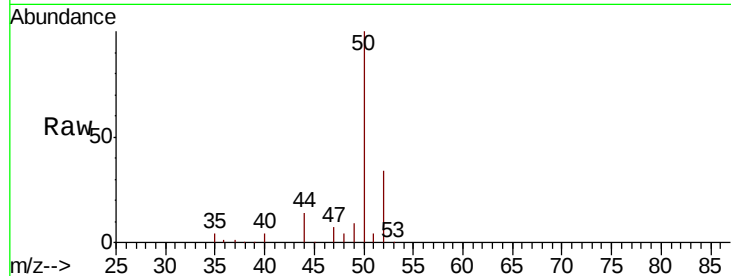
Ion Ratio Lower Upper

50 100

52 34.0 26.1 39.1

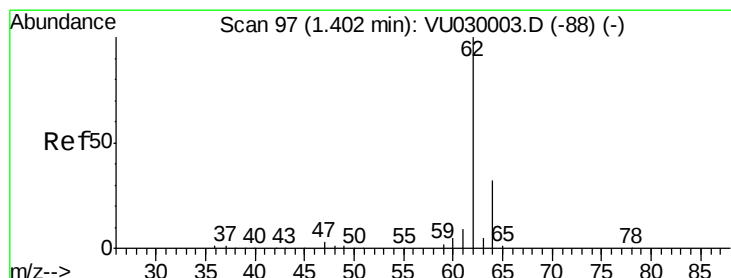
Manual Integrations

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#4

Vinyl Chloride

Concen: 1.932 ug/l

RT: 1.40 min Scan# 97

Delta R.T. -0.00 min

Lab File: VU030012.D

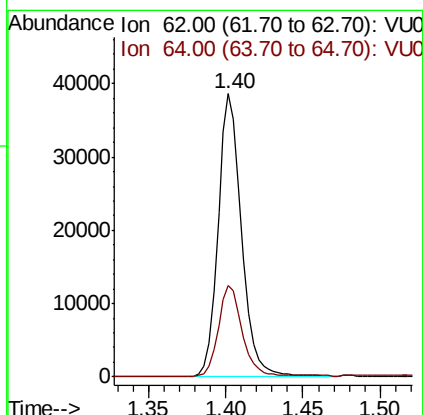
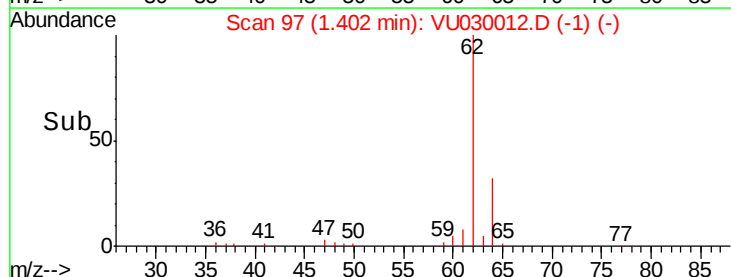
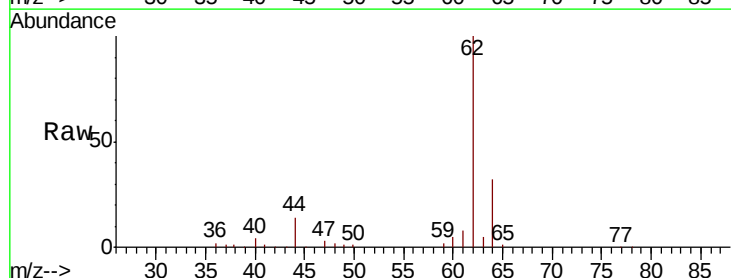
Acq: 12 Mar 2019 17:40

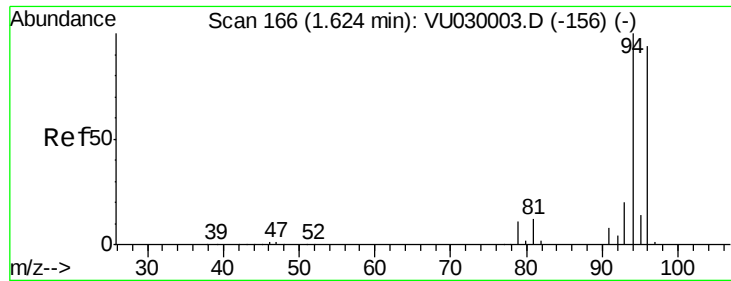
Tgt Ion: 62 Resp: 40844

Ion Ratio Lower Upper

62 100

64 32.4 26.0 39.0





#5

Bromomethane

Concen: 1.983 ug/l

RT: 1.63 min Scan# 167

Delta R.T. 0.00 min

Lab File: VU030012.D

Acq: 12 Mar 2019 17:40

Instrument :

MSVOA_U

ClientSampleId :

VU0314WBSD01

Tgt Ion: 94 Resp: 23966

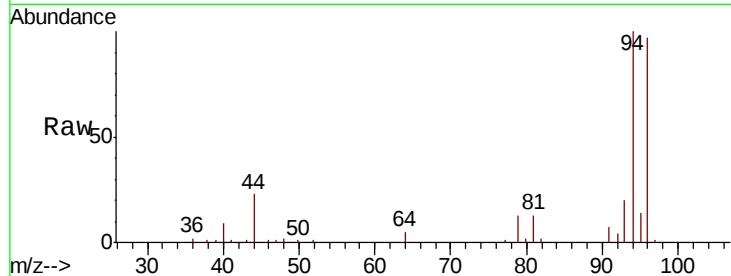
Ion Ratio Lower Upper

94 100

96 97.2 75.2 112.8

Manual Integrations

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Abundance Ion 94.00 (93.70 to 94.70): VU030012.D (-11) (-)

Ion 96.00 (95.70 to 96.70): VU030012.D (-11) (-)

1.63

20000

15000

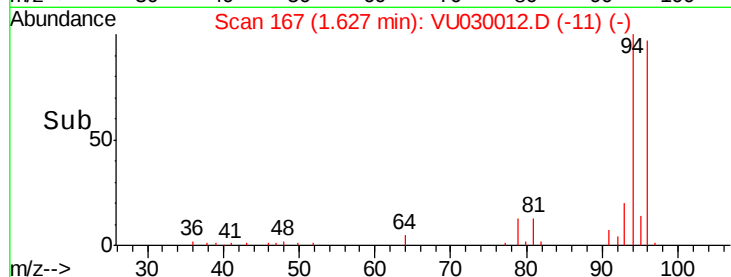
10000

5000

0

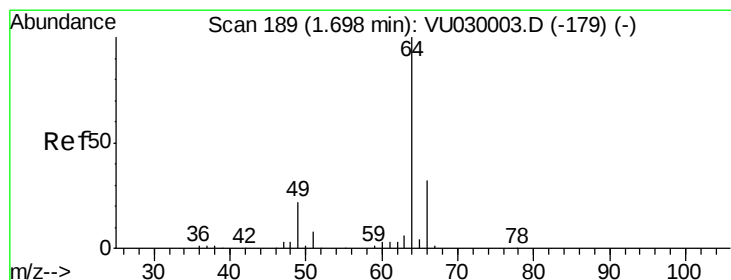
Time-->

1.60 1.65 1.70



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#6

Chloroethane

Concen: 1.964 ug/l

RT: 1.70 min Scan# 189

Delta R.T. -0.00 min

Lab File: VU030012.D

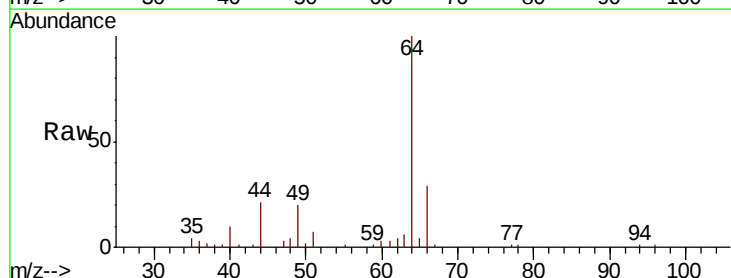
Acq: 12 Mar 2019 17:40

Tgt Ion: 64 Resp: 23979

Ion Ratio Lower Upper

64 100

66 30.1 25.8 38.6



Abundance Ion 64.00 (63.70 to 64.70): VU030012.D (-34) (-)

Ion 66.00 (65.70 to 66.70): VU030012.D (-34) (-)

1.70

20000

15000

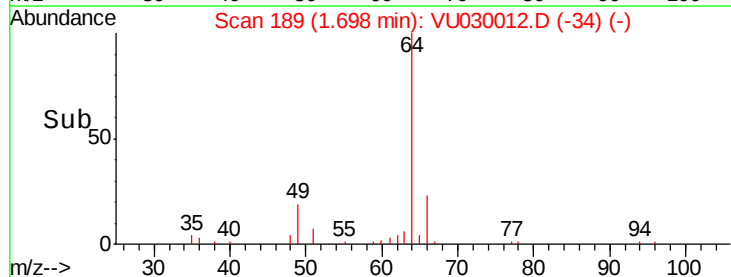
10000

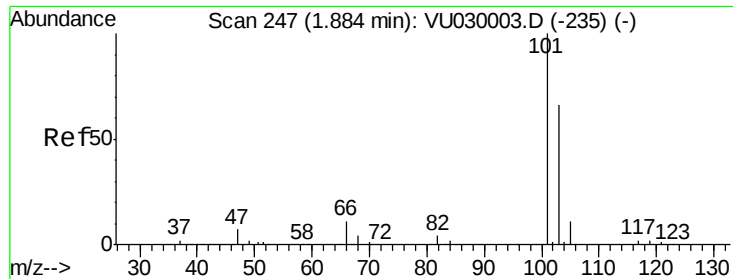
5000

0

Time-->

1.65 1.70 1.75





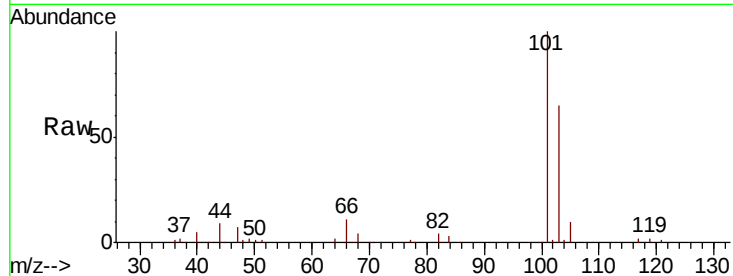
#7

Trichlorofluoromethane
Concen: 1.985 ug/l
RT: 1.88 min Scan# 247
Delta R.T. -0.00 min
Lab File: VU030012.D
Acq: 12 Mar 2019 17:40

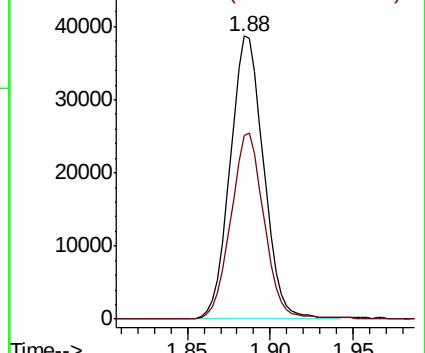
Instrument :
MSVOA_U
ClientSampleId :
VU0314WBSD01

Tgt Ion:101 Resp: 54442
Ion Ratio Lower Upper
101 100
103 64.8 52.6 79.0

Manual Integrations
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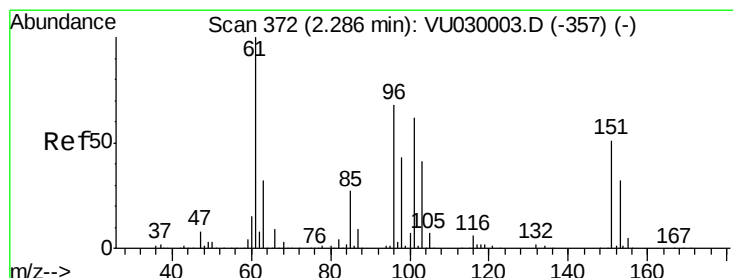
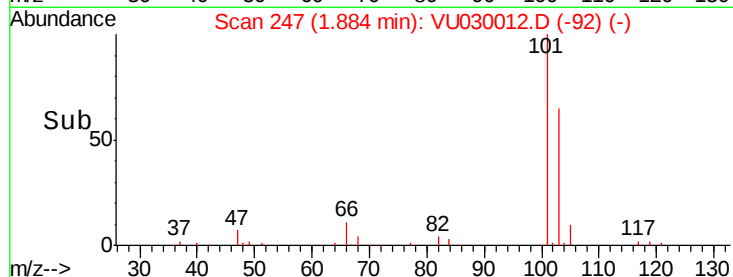


Abundance Ion 101.00 (100.70 to 101.70): V
Ion 103.00 (102.70 to 103.70): V



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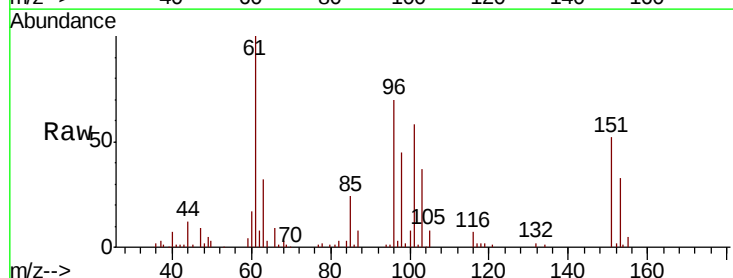
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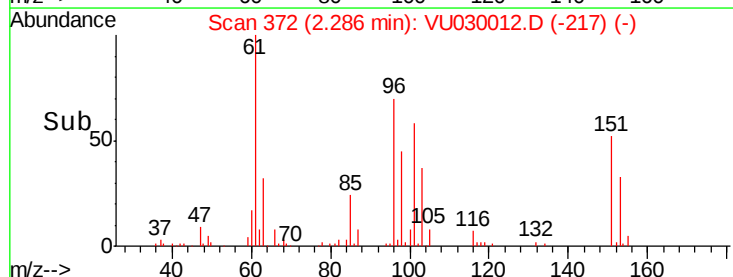
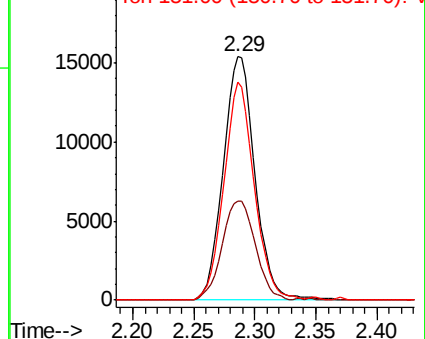
#8

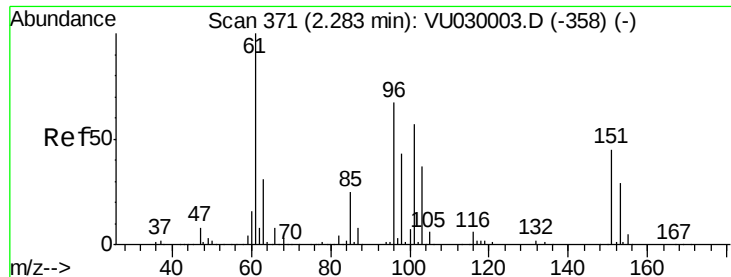
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 1.885 ug/l
RT: 2.29 min Scan# 372
Delta R.T. -0.00 min
Lab File: VU030012.D
Acq: 12 Mar 2019 17:40

Tgt Ion:101 Resp: 28121
Ion Ratio Lower Upper
101 100
85 42.6 33.6 50.4
151 84.4 65.0 97.4



Abundance Ion 101.00 (100.70 to 101.70): V
Ion 85.00 (84.70 to 85.70): VU
Ion 151.00 (150.70 to 151.70): V





#9

1,1-Dichloroethene

Concen: 1.982 ug/l

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU030012.D

Acq: 12 Mar 2019 17:40

Instrument :

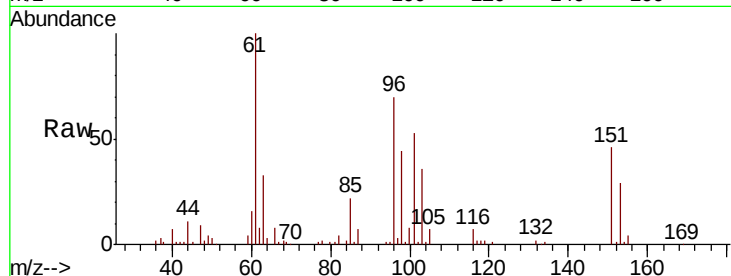
MSVOA_U

ClientSampleId :

VU0314WBSD01

Tgt Ion:	96	Resp:	29327
Ion	Ratio	Lower	Upper
96	100		
61	142.2	0.0	447.0
98	62.1	0.0	129.2

Manual Integrations
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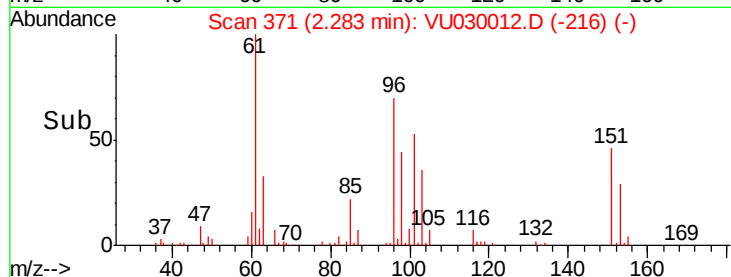


Abundance Ion 96.00 (95.70 to 96.70): VU030012.D (-216) (-)

Ion 61.00 (60.70 to 61.70): VU030012.D (-216) (-)

Ion 98.00 (97.70 to 98.70): VU030012.D (-216) (-)

Time-->



Time-->

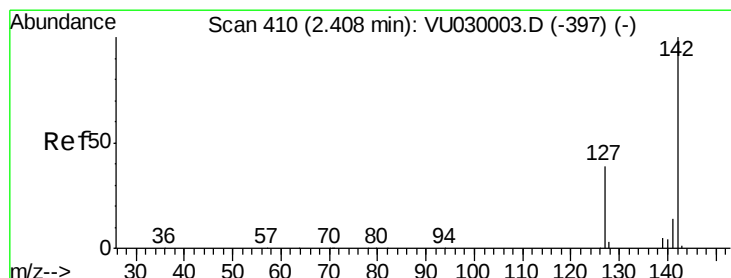
2.28

2.30

2.35

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#10

Iodomethane

Concen: 1.621 ug/l

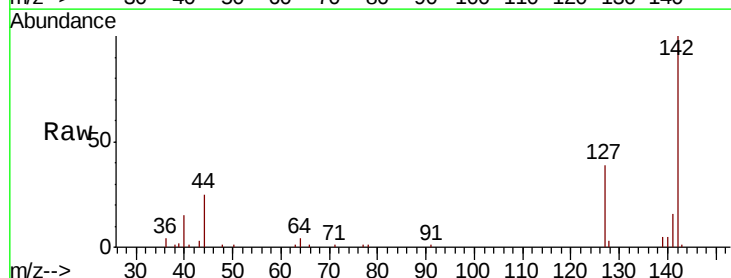
RT: 2.41 min Scan# 410

Delta R.T. -0.00 min

Lab File: VU030012.D

Acq: 12 Mar 2019 17:40

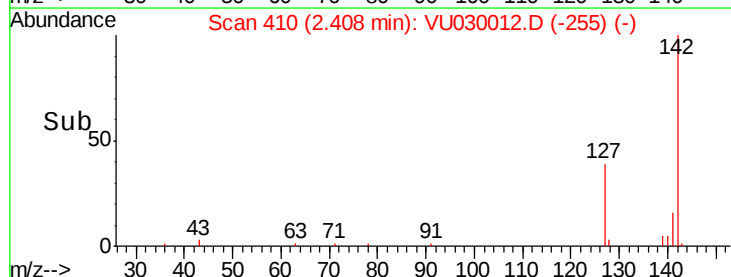
Tgt Ion:	142	Resp:	20781
Ion	Ratio	Lower	Upper
142	100		
127	38.3	32.2	48.4



Abundance Ion 142.00 (141.70 to 142.70): VU030012.D (-255) (-)

Ion 127.00 (126.70 to 127.70): VU030012.D (-255) (-)

Time-->

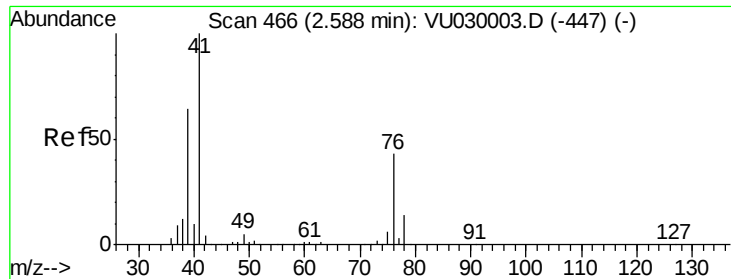


Time-->

2.41

2.45

2.50

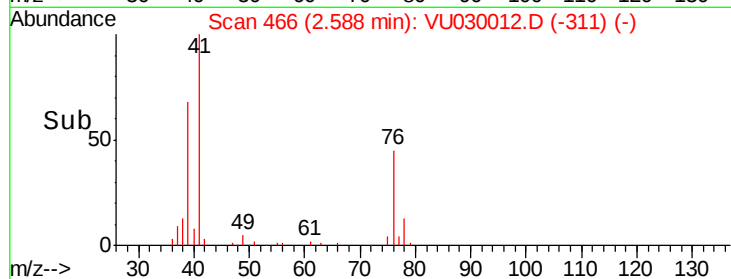
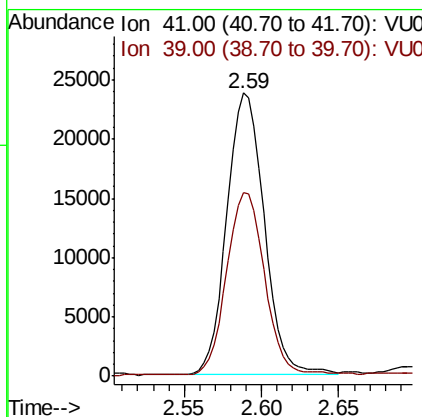
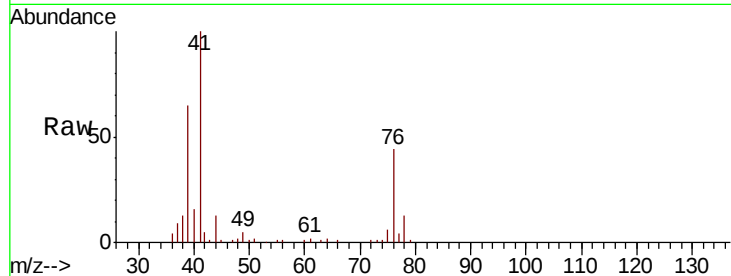


#11
 Allyl Chloride
 Concen: 1.908 ug/l
 RT: 2.59 min Scan# 466
 Delta R.T. -0.00 min
 Lab File: VU030012.D
 Acq: 12 Mar 2019 17:40

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0314WBSD01

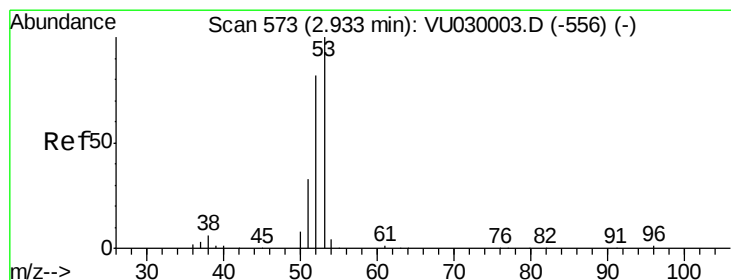
Tgt Ion: 41 Resp: 39921
 Ion Ratio Lower Upper
 41 100
 39 65.0 50.8 76.2

Manual Integrations
 APPROVED



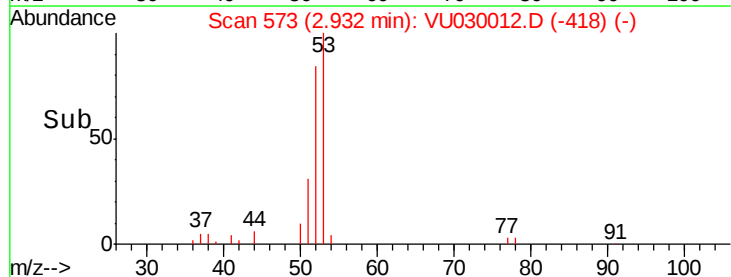
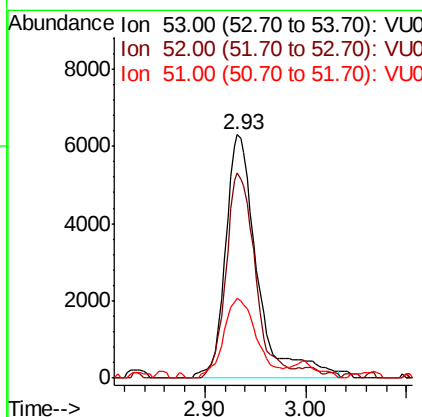
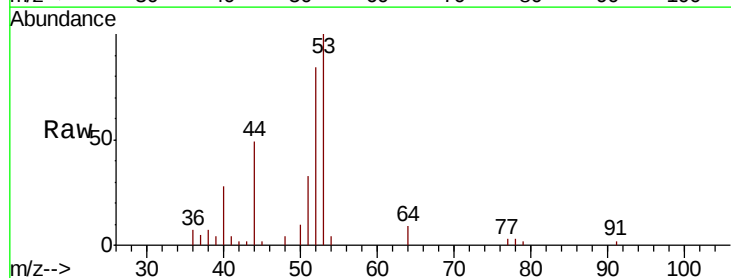
MMDadoda

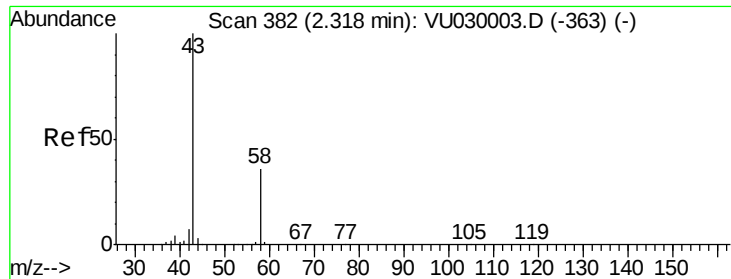
3/13/2019 12:56:33 PM



#12
 Acrylonitrile
 Concen: 4.331 ug/l
 RT: 2.93 min Scan# 573
 Delta R.T. -0.00 min
 Lab File: VU030012.D
 Acq: 12 Mar 2019 17:40

Tgt Ion: 53 Resp: 13876
 Ion Ratio Lower Upper
 53 100
 52 77.3 66.3 99.5
 51 33.9 26.9 40.3





#13

Acetone

Concen: 9.047 ug/l

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VU030012.D

Acq: 12 Mar 2019 17:40

Instrument :

MSVOA_U

ClientSampleId :

VU0314WBSD01

Tgt Ion: 43 Resp: 25235

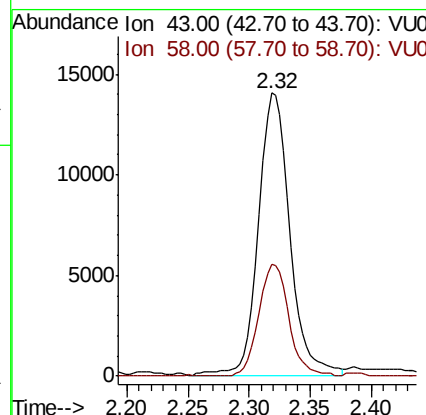
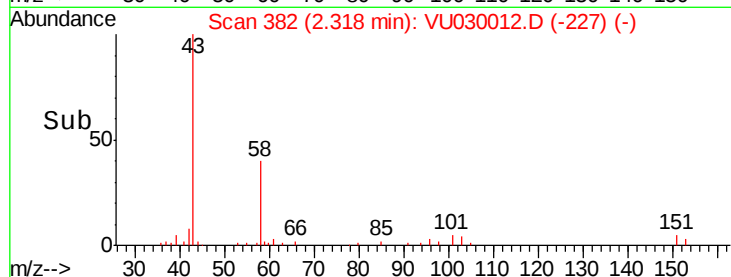
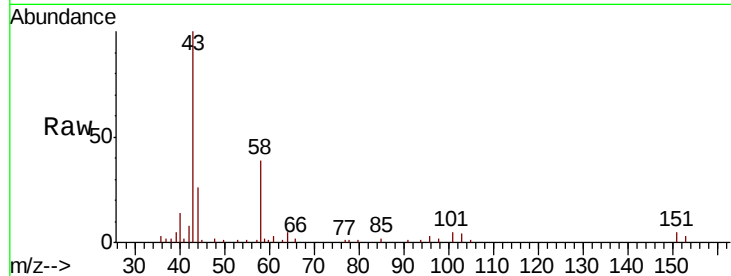
Ion Ratio Lower Upper

43 100

58 39.4 28.6 43.0

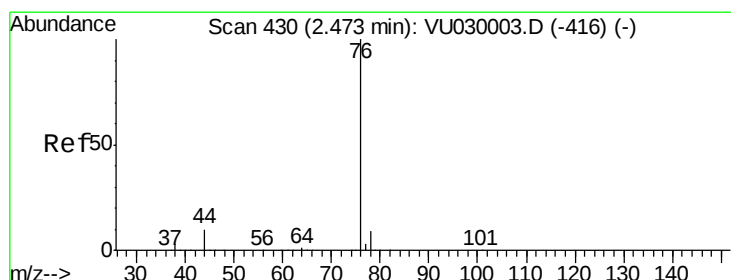
Manual Integrations

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#14

Carbon Disulfide

Concen: 1.825 ug/l

RT: 2.48 min Scan# 431

Delta R.T. 0.00 min

Lab File: VU030012.D

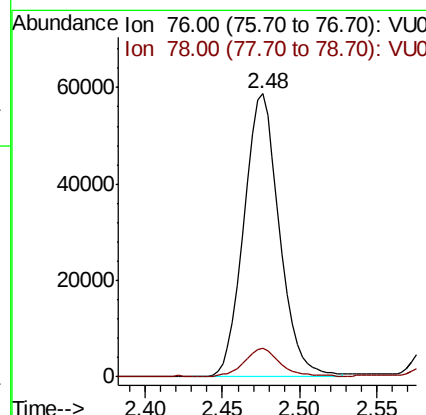
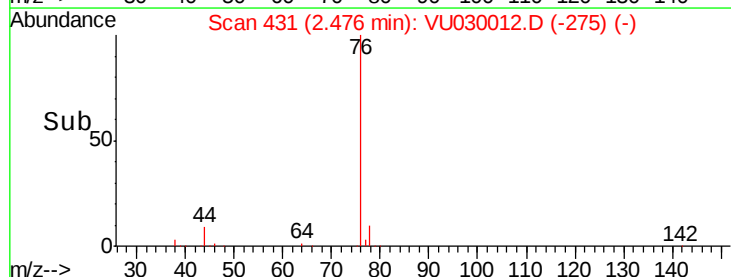
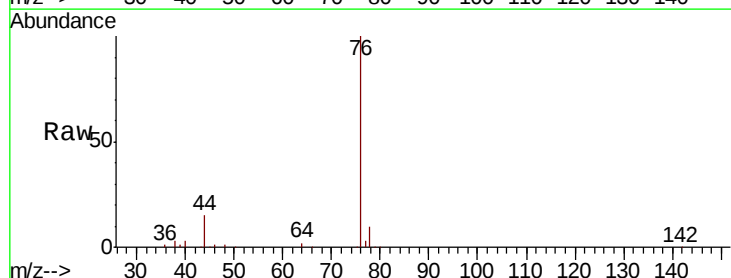
Acq: 12 Mar 2019 17:40

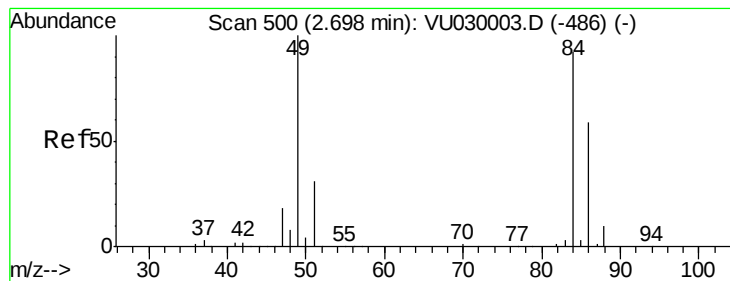
Tgt Ion: 76 Resp: 94068

Ion Ratio Lower Upper

76 100

78 9.8 7.4 11.2





#15

Methylene Chloride

Concen: 2.015 ug/l

RT: 2.70 min Scan# 500

Delta R.T. -0.00 min

Lab File: VU030012.D

Acq: 12 Mar 2019 17:40

Instrument :

MSVOA_U

ClientSampleId :

VU0314WBSD01

Tgt Ion: 84 Resp: 35485

Ion Ratio Lower Upper

84 100

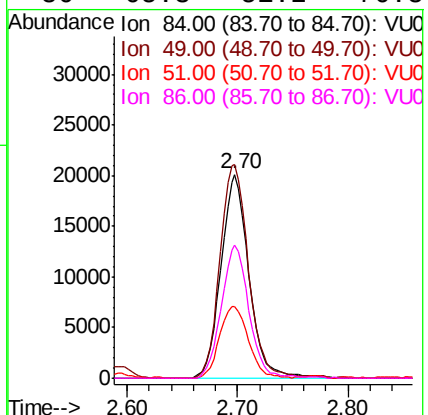
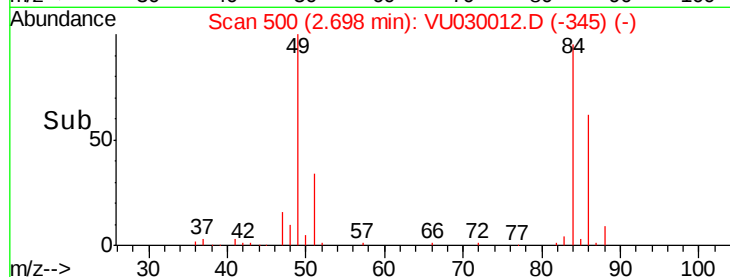
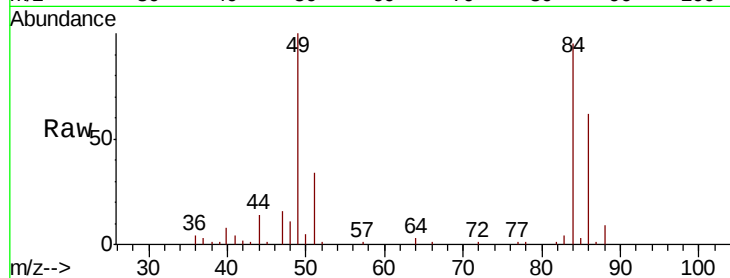
49 104.9 86.5 129.7

51 35.3 0.0 66.8

86 65.3 51.2 76.8

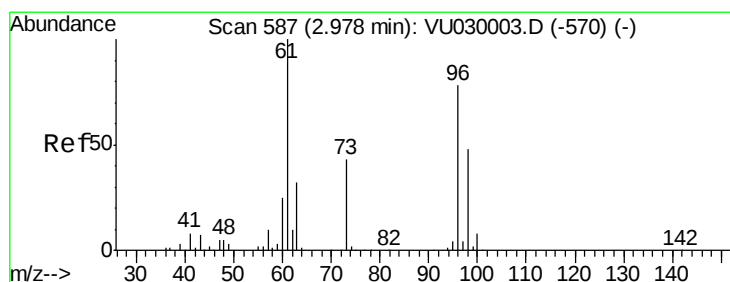
Manual Integrations

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#16

trans-1,2-Dichloroethene

Concen: 1.930 ug/l

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU030012.D

Acq: 12 Mar 2019 17:40

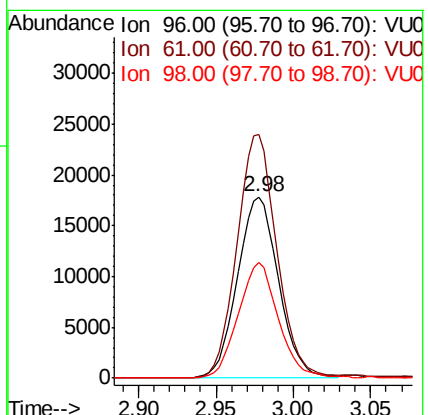
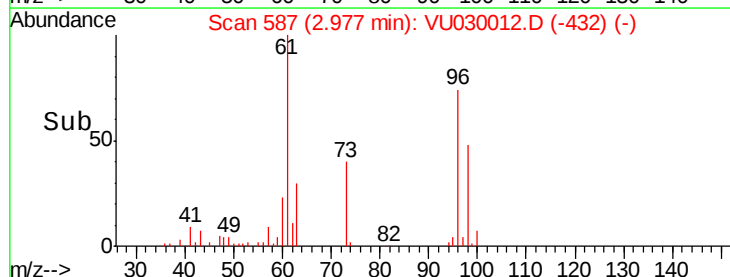
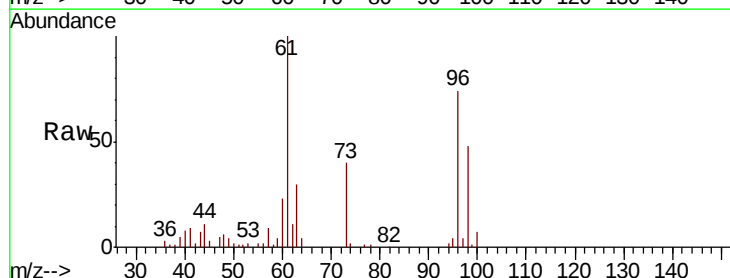
Tgt Ion: 96 Resp: 32977

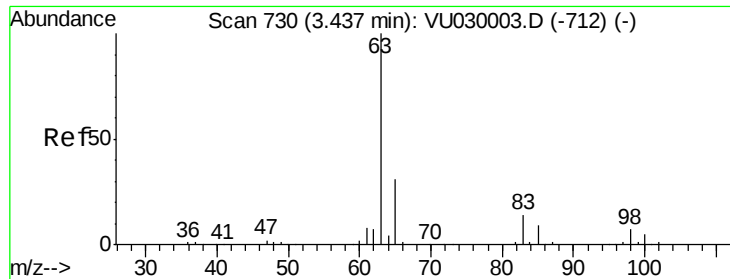
Ion Ratio Lower Upper

96 100

61 134.3 103.0 154.6

98 63.9 49.5 74.3



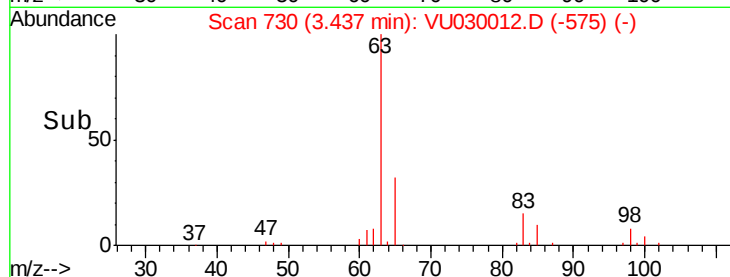
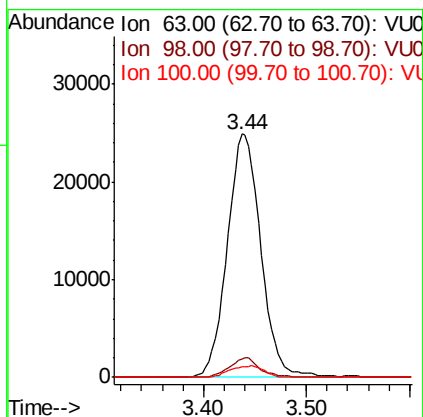
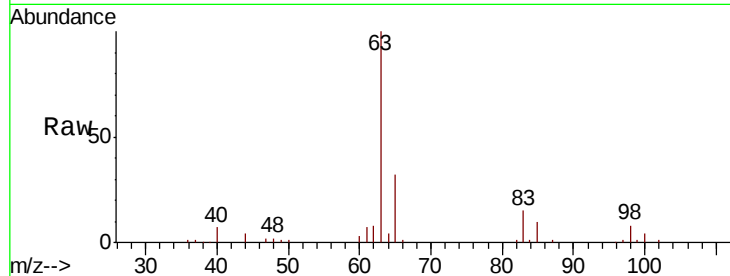


#17
 1,1-Dichloroethane
 Concen: 1.948 ug/l
 RT: 3.44 min Scan# 730
 Delta R.T. -0.00 min
 Lab File: VU030012.D
 Acq: 12 Mar 2019 17:40

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0314WBSD01

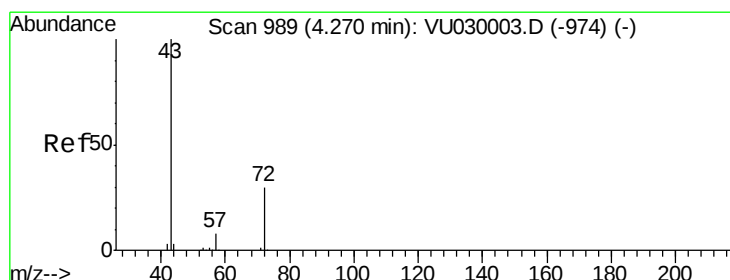
Tgt Ion:	63	Resp:	56253
Ion	Ratio	Lower	Upper
63	100		
98	7.8	3.4	10.2
100	4.4	2.3	6.8

Manual Integrations
 APPROVED



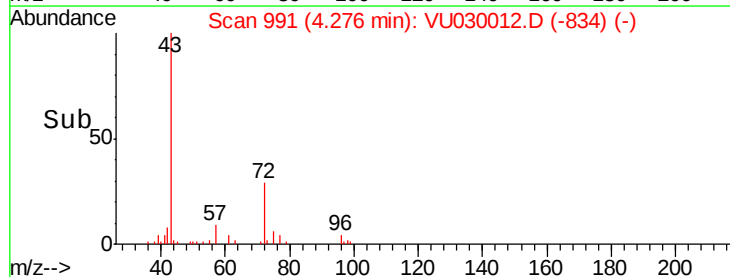
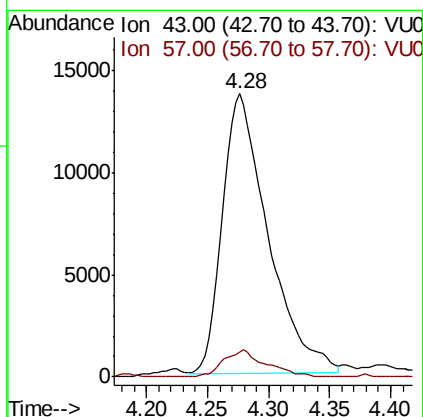
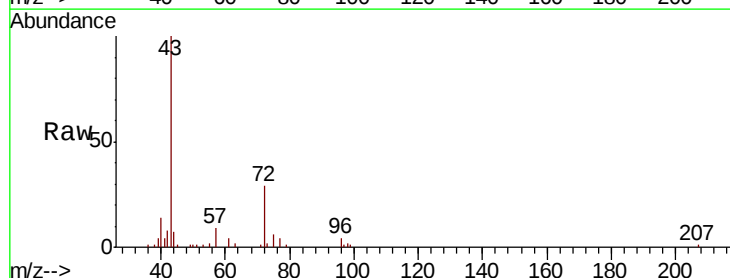
MMDadoda

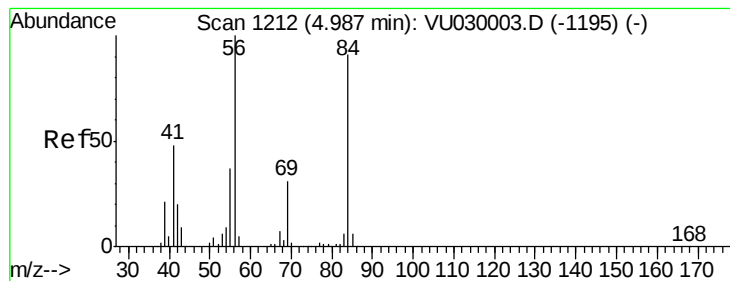
3/13/2019 12:56:33 PM



#18
 2-Butanone
 Concen: 9.274 ug/l
 RT: 4.28 min Scan# 991
 Delta R.T. 0.01 min
 Lab File: VU030012.D
 Acq: 12 Mar 2019 17:40

Tgt Ion:	43	Resp:	35812
Ion	Ratio	Lower	Upper
43	100		
57	8.8	0.0	16.8





#19

Cyclohexane

Concen: 1.849 ug/l m

RT: 4.98 min Scan# 1211

Delta R.T. -0.00 min

Lab File: VU030012.D

Acq: 12 Mar 2019 17:40

Instrument :

MSVOA_U

ClientSampleId :

VU0314WBSD01

Tgt Ion: 56 Resp: 45741

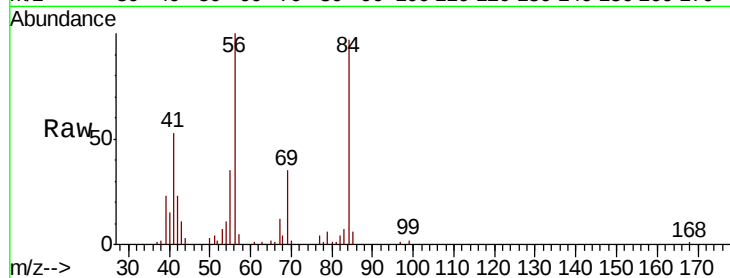
Ion Ratio Lower Upper

56 100

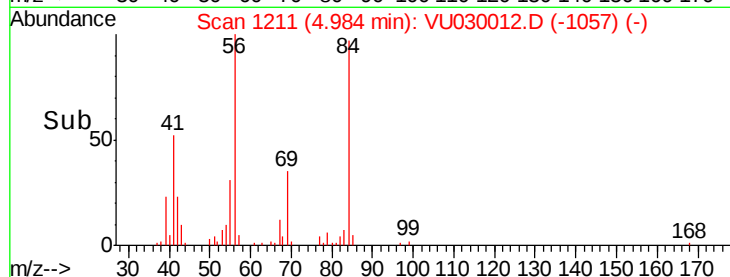
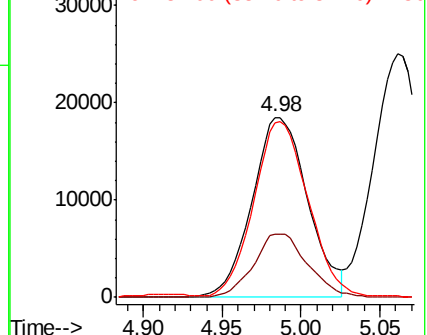
69 34.1 25.7 38.5

84 94.2 72.9 109.3

Manual Integrations
APPROVED

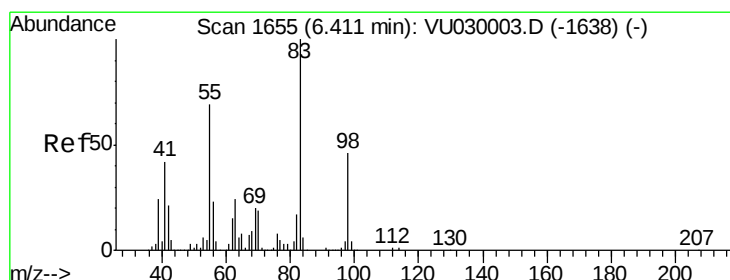


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0



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#20

Methylcyclohexane

Concen: 1.817 ug/l

RT: 6.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VU030012.D

Acq: 12 Mar 2019 17:40

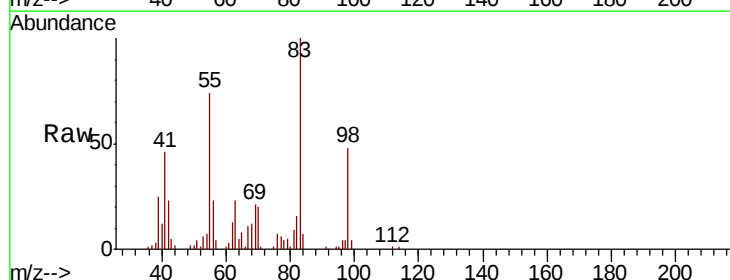
Tgt Ion: 83 Resp: 49620

Ion Ratio Lower Upper

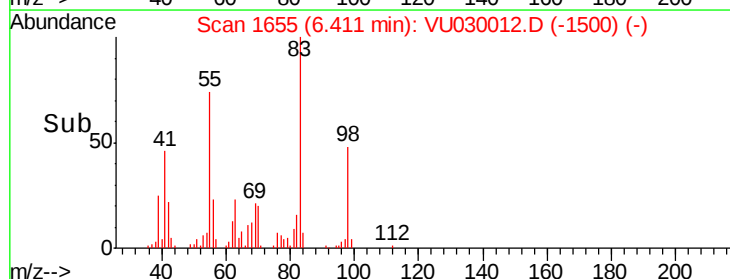
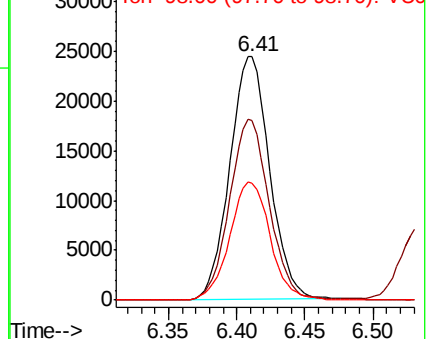
83 100

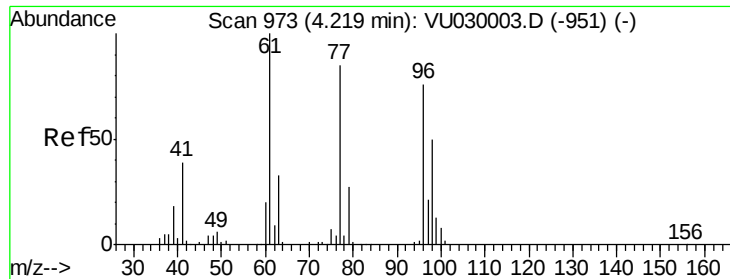
55 73.1 55.6 83.4

98 49.3 37.4 56.0



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



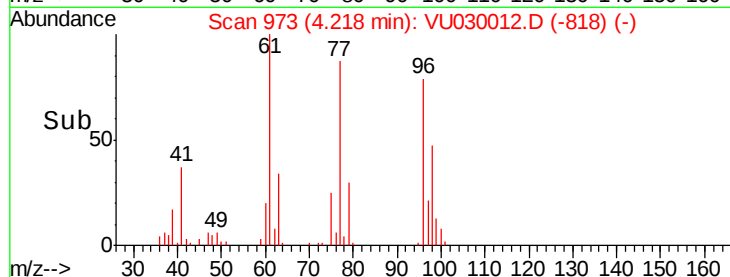
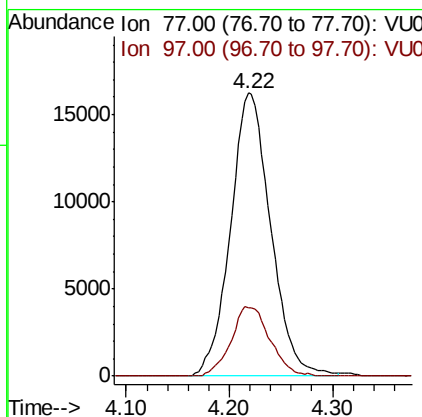
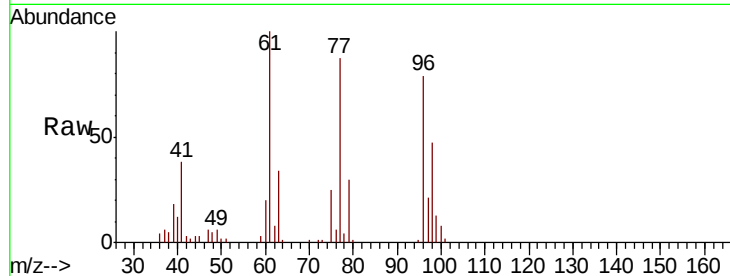


#21
 2,2-Dichloropropane
 Concen: 1.813 ug/l
 RT: 4.22 min Scan# 973
 Delta R.T. -0.00 min
 Lab File: VU030012.D
 Acq: 12 Mar 2019 17:40

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0314WBSD01

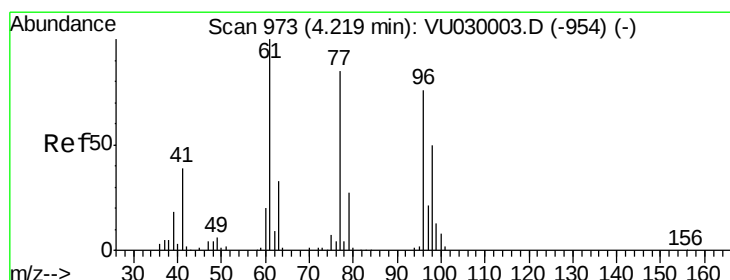
Tgt Ion: 77 Resp: 44036
 Ion Ratio Lower Upper
 77 100
 97 23.6 20.2 30.4

Manual Integrations
 APPROVED



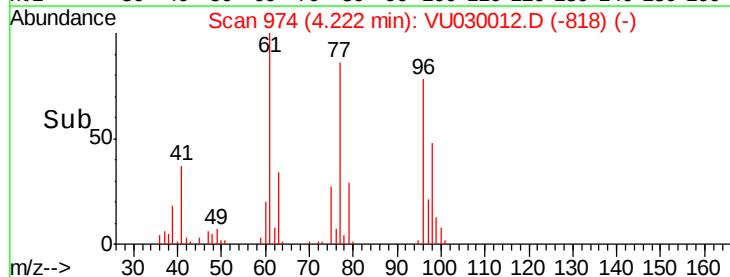
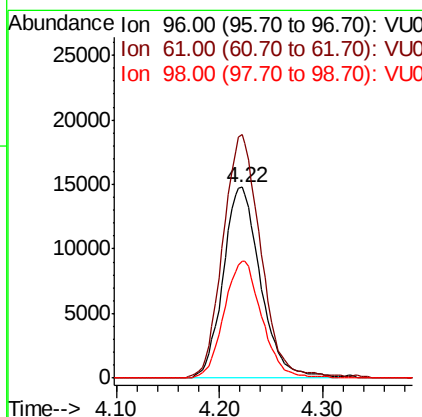
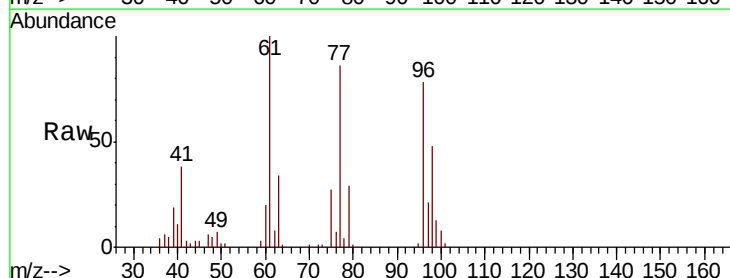
MMDadoda

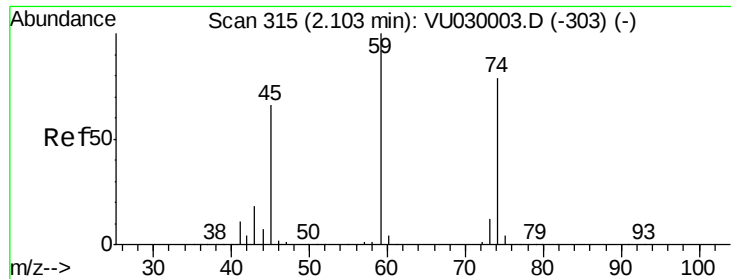
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#22
 cis-1,2-Dichloroethene
 Concen: 1.964 ug/l
 RT: 4.22 min Scan# 974
 Delta R.T. 0.00 min
 Lab File: VU030012.D
 Acq: 12 Mar 2019 17:40

Tgt Ion: 96 Resp: 37307
 Ion Ratio Lower Upper
 96 100
 61 129.1 0.0 335.8
 98 61.5 32.6 97.7



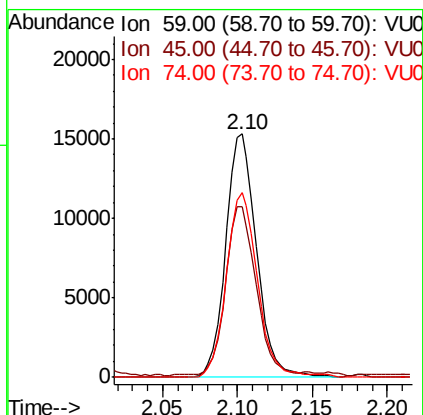
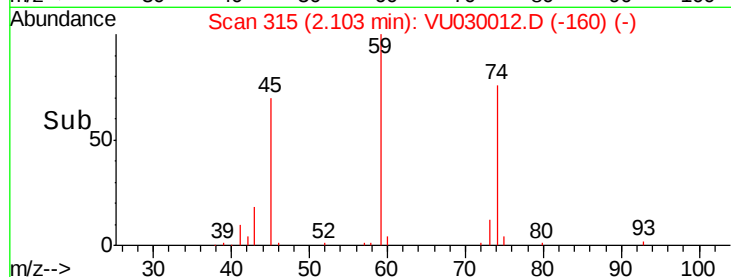
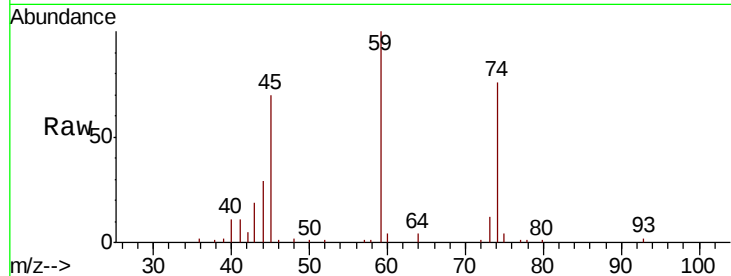


#23
Diethyl Ether
Concen: 1.986 ug/l
RT: 2.10 min Scan# 315
Delta R.T. -0.00 min
Lab File: VU030012.D
Acq: 12 Mar 2019 17:40

Instrument :
MSVOA_U
ClientSampleId :
VU0314WBSD01

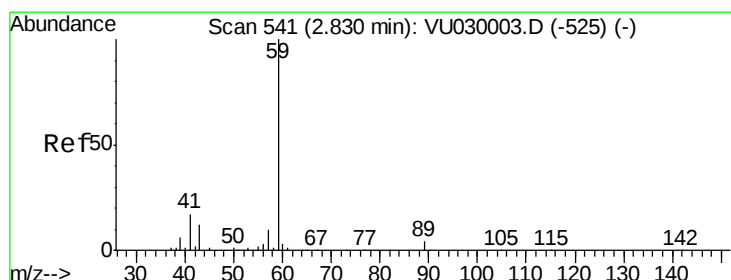
Tgt Ion	Ratio	Lower	Upper
59	100		
45	67.6	52.3	78.5
74	76.9	61.1	91.7

Manual Integrations
APPROVED



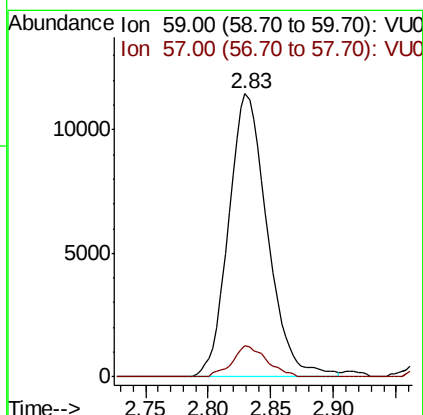
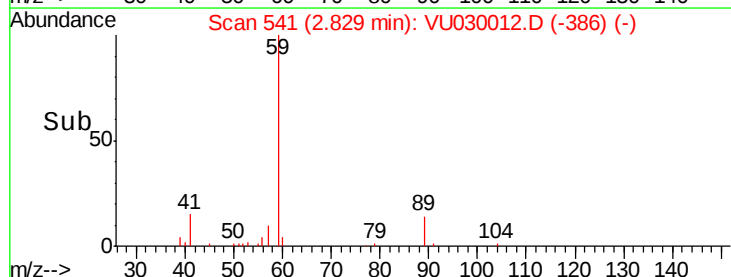
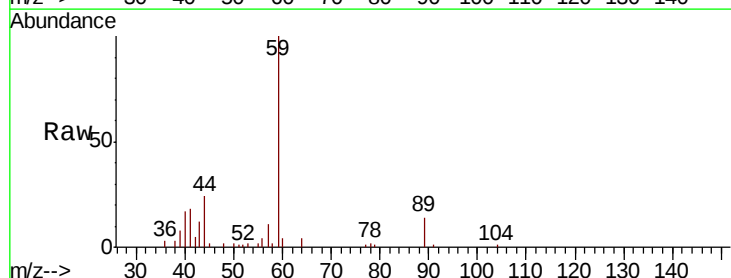
MMDadoda

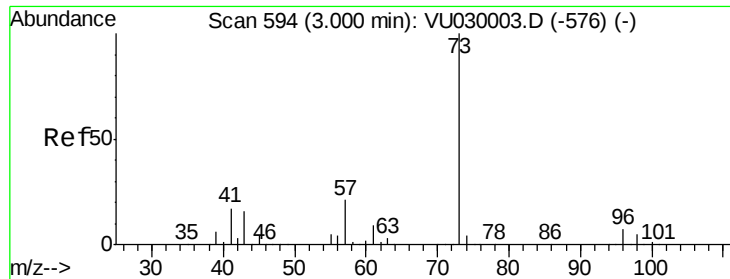
3/13/2019 12:56:33 PM



#24
tert-Butyl Alcohol
Concen: 20.793 ug/l
RT: 2.83 min Scan# 541
Delta R.T. -0.00 min
Lab File: VU030012.D
Acq: 12 Mar 2019 17:40

Tgt Ion	Ratio	Lower	Upper
59	100		
57	9.8	7.7	11.5





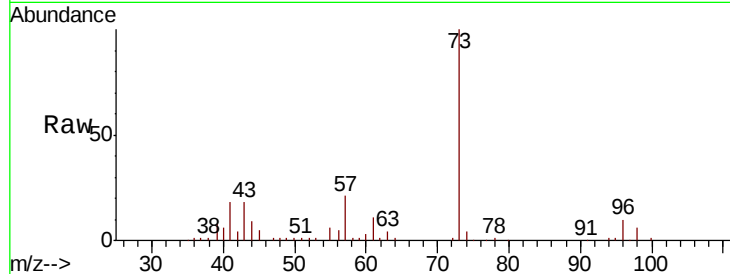
#25

Methyl tert-Butyl Ether
Concen: 1.993 ug/l
RT: 3.00 min Scan# 594
Delta R.T. -0.00 min
Lab File: VU030012.D
Acq: 12 Mar 2019 17:40

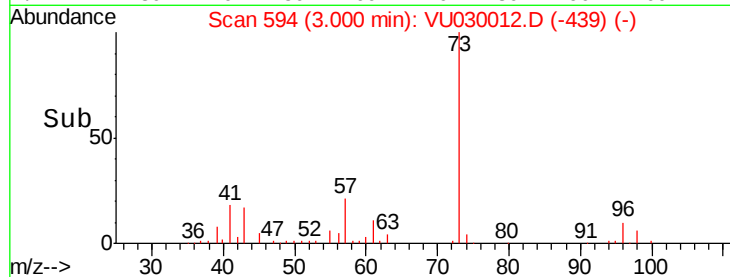
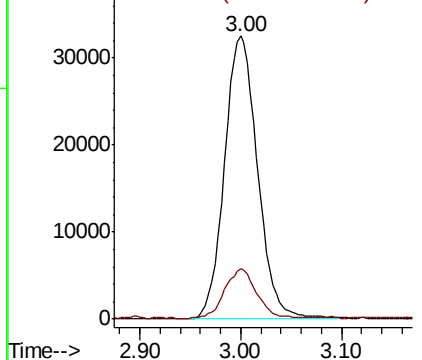
Instrument :
MSVOA_U
ClientSampleId :
VU0314WBSD01

Tgt Ion	Ratio	Lower	Upper
73	100		
43	18.0	13.1	19.7

Manual Integrations
APPROVED

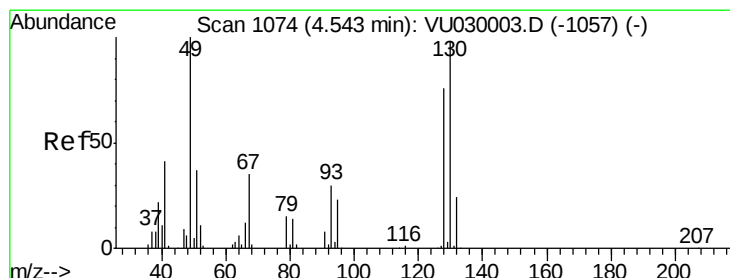


Abundance Ion 73.00 (72.70 to 73.70): VU030003.D (-576) (-)
Ion 43.00 (42.70 to 43.70): VU030003.D (-576) (-)



MMDadoda

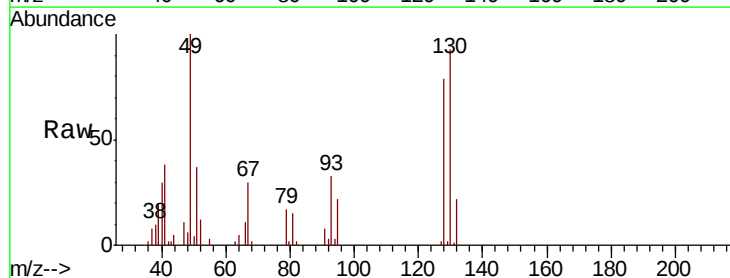
3/13/2019 12:56:33 PM



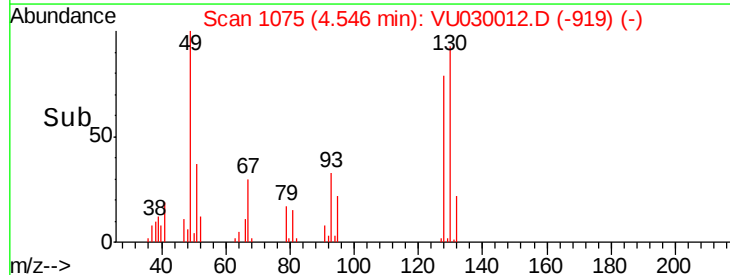
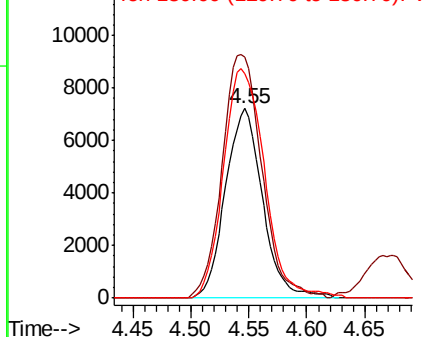
#26

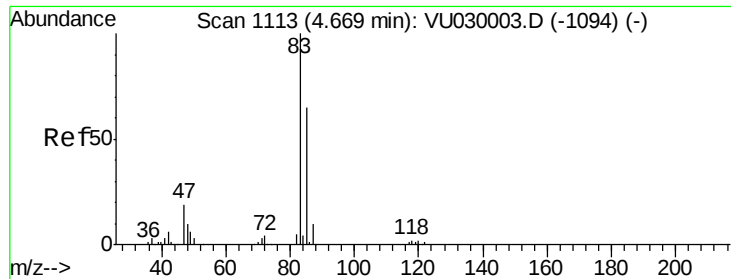
Bromochloromethane
Concen: 1.934 ug/l
RT: 4.55 min Scan# 1075
Delta R.T. 0.00 min
Lab File: VU030012.D
Acq: 12 Mar 2019 17:40

Tgt Ion	Ratio	Lower	Upper
128	100		
49	137.2	0.0	270.4
130	133.9	102.6	153.8



Abundance Ion 128.00 (127.70 to 128.70): VU030003.D (-1057) (-)
Ion 49.00 (48.70 to 49.70): VU030003.D (-1057) (-)
Ion 130.00 (129.70 to 130.70): VU030003.D (-1057) (-)



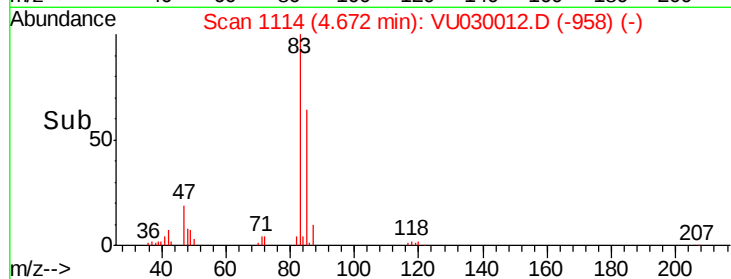
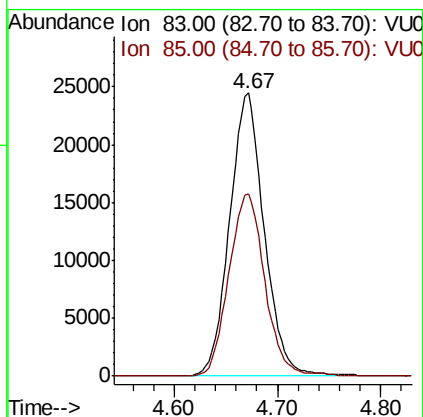
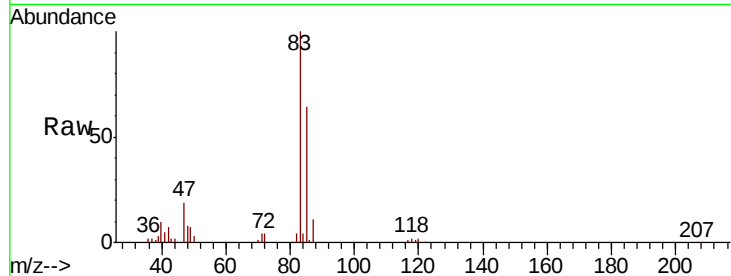


#27
Chloroform
Concen: 1.877 ug/l
RT: 4.67 min Scan# 1114
Delta R.T. 0.00 min
Lab File: VU030012.D
Acq: 12 Mar 2019 17:40

Instrument :
MSVOA_U
ClientSampleId :
VU0314WBSD01

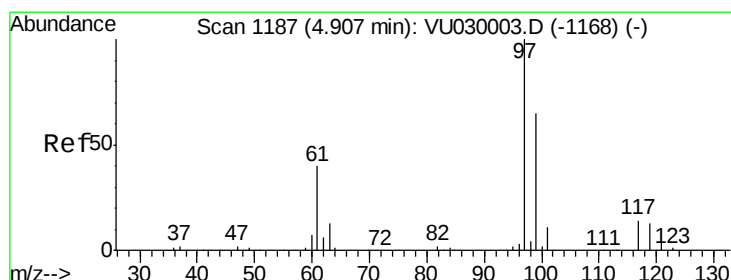
Tgt Ion: 83 Resp: 57041
Ion Ratio Lower Upper
83 100
85 64.5 0.0 129.0

Manual Integrations
APPROVED



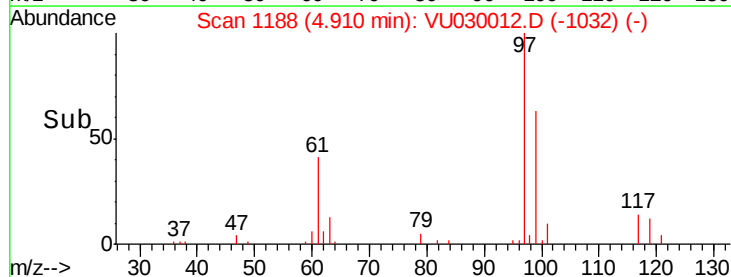
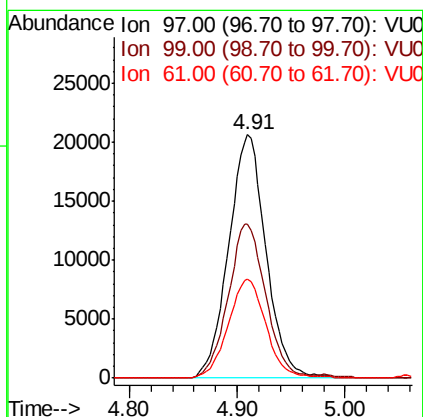
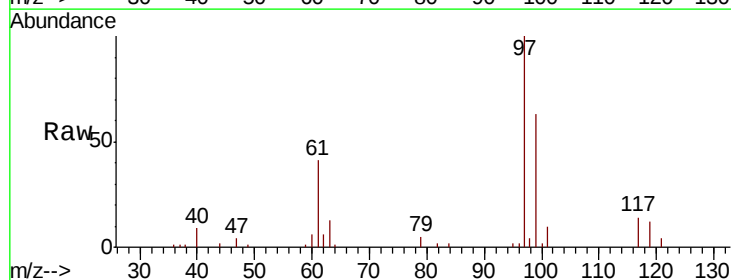
MMDadoda

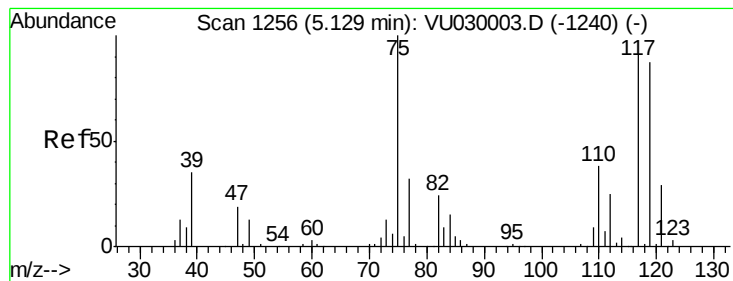
3/13/2019 12:56:33 PM



#28
1,1,1-Trichloroethane
Concen: 1.988 ug/l
RT: 4.91 min Scan# 1188
Delta R.T. 0.00 min
Lab File: VU030012.D
Acq: 12 Mar 2019 17:40

Tgt Ion: 97 Resp: 49688
Ion Ratio Lower Upper
97 100
99 63.5 32.4 97.0
61 41.2 20.4 61.2





#29

1,1-Dichloropropene

Concen: 1.855 ug/l

RT: 5.13 min Scan# 1256

Delta R.T. -0.00 min

Lab File: VU030012.D

Acq: 12 Mar 2019 17:40

Instrument :

MSVOA_U

ClientSampleId :

VU0314WBSD01

Tgt Ion: 75 Resp: 42222

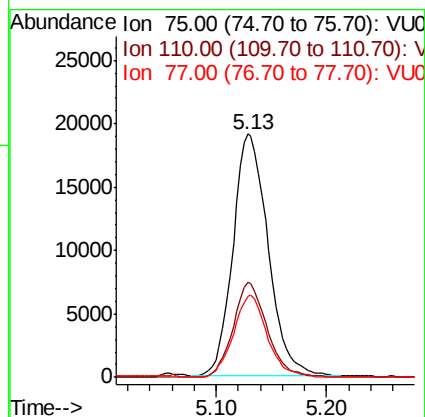
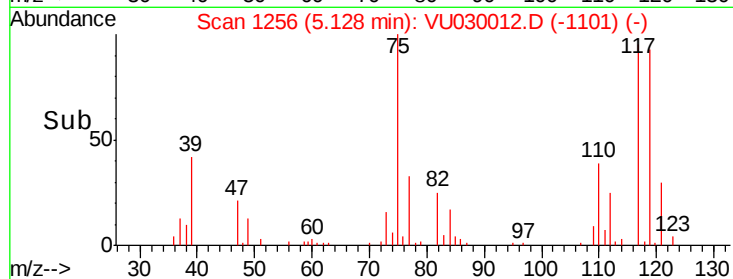
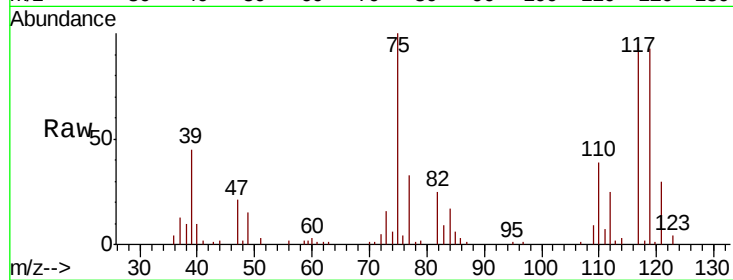
Ion Ratio Lower Upper

75 100

110 37.7 19.1 57.3

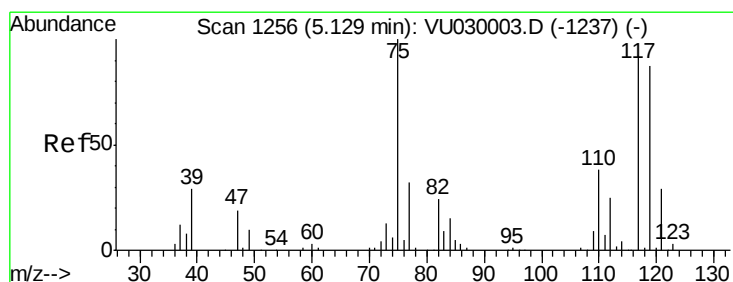
77 32.7 25.2 37.8

Manual Integrations
APPROVED



MMDadoda

3/13/2019 12:56:33 PM



#30

Carbon Tetrachloride

Concen: 1.858 ug/l

RT: 5.13 min Scan# 1256

Delta R.T. -0.00 min

Lab File: VU030012.D

Acq: 12 Mar 2019 17:40

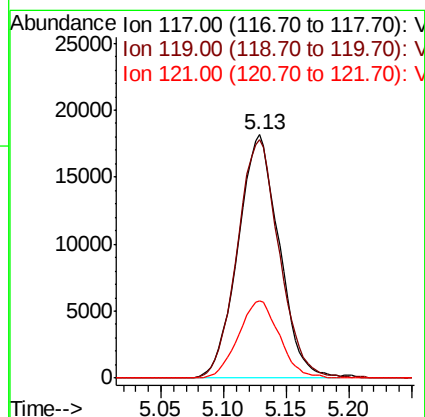
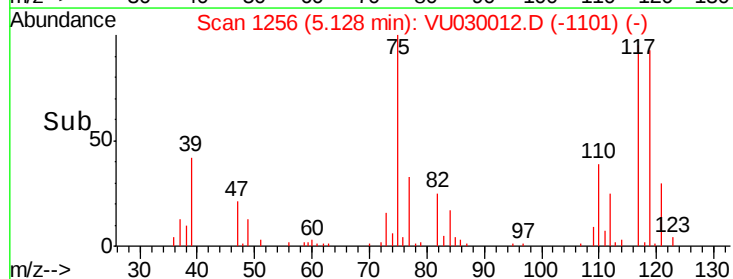
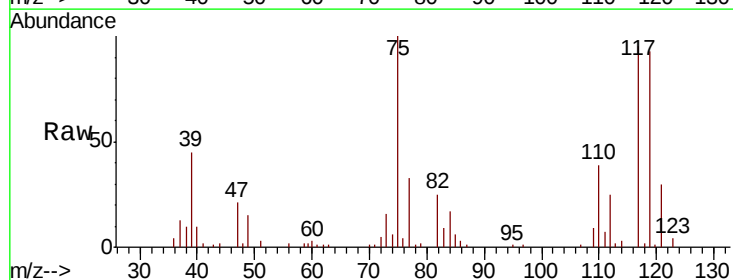
Tgt Ion: 117 Resp: 41520

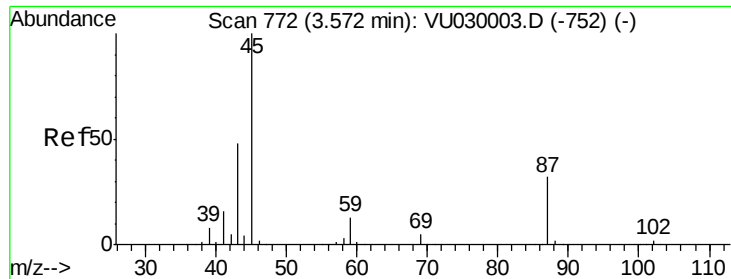
Ion Ratio Lower Upper

117 100

119 98.1 76.3 114.5

121 32.0 25.1 37.7



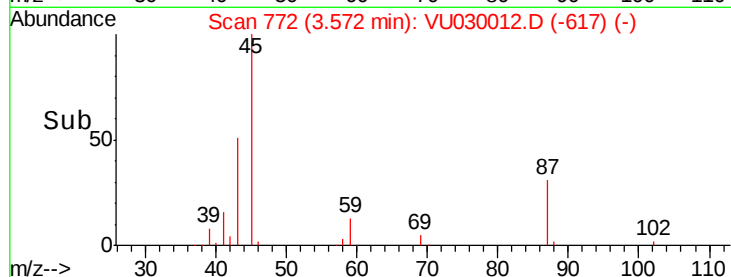
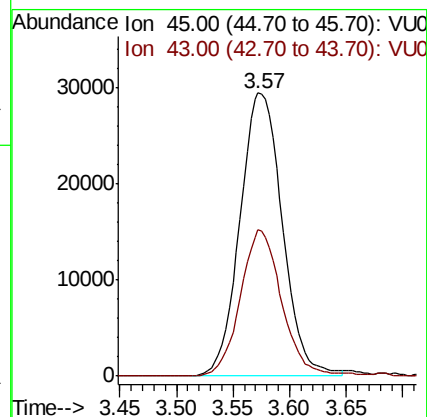
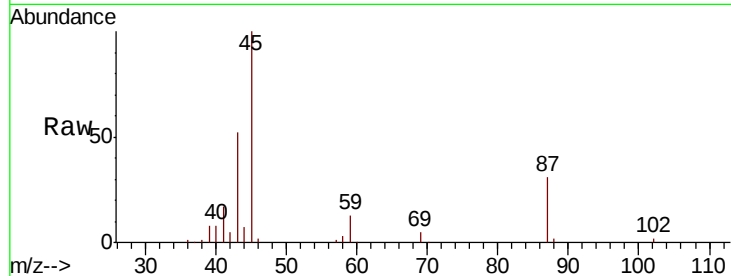


#31
Isopropyl Ether
Concen: 1.890 ug/l
RT: 3.57 min Scan# 772
Delta R.T. -0.00 min
Lab File: VU030012.D
Acq: 12 Mar 2019 17:40

Instrument :
MSVOA_U
ClientSampleId :
VU0314WBSD01

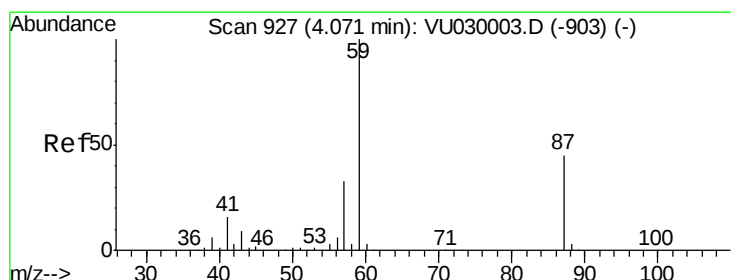
Tgt Ion: 45 Resp: 76813
Ion Ratio Lower Upper
45 100
43 50.4 24.5 73.5

Manual Integrations
APPROVED



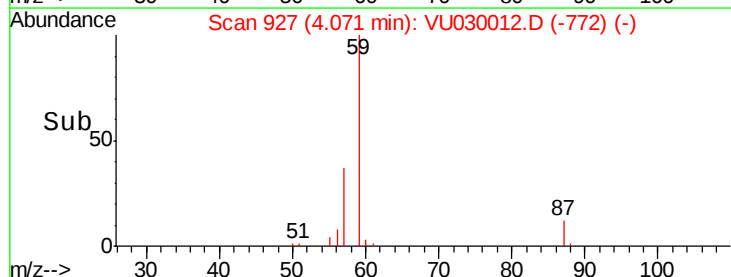
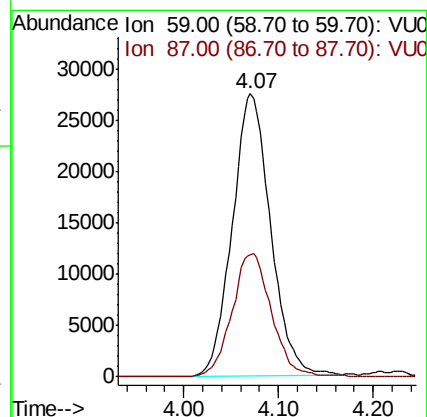
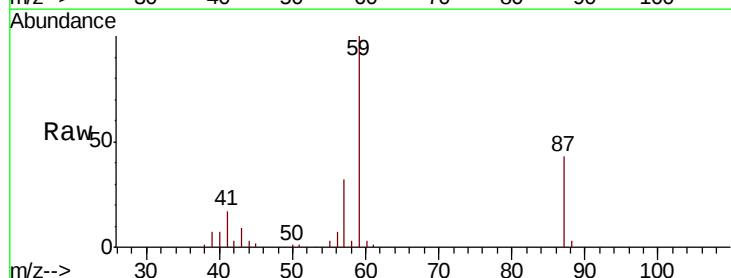
MMDadoda

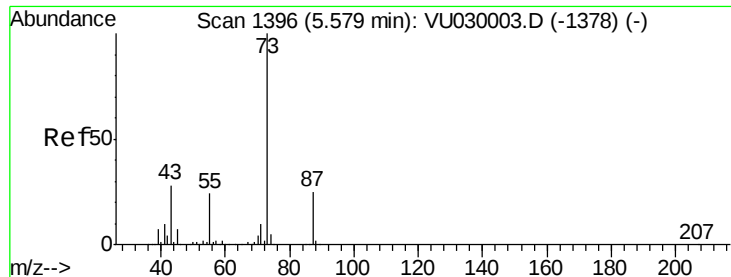
3/13/2019 12:56:33 PM



#32
Ethyl-t-butyl ether
Concen: 1.970 ug/l
RT: 4.07 min Scan# 927
Delta R.T. -0.00 min
Lab File: VU030012.D
Acq: 12 Mar 2019 17:40

Tgt Ion: 59 Resp: 77135
Ion Ratio Lower Upper
59 100
87 43.7 36.2 54.4



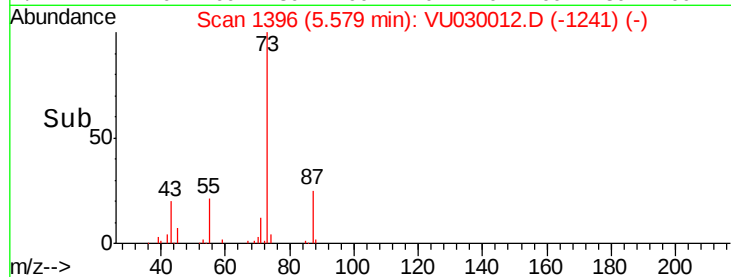
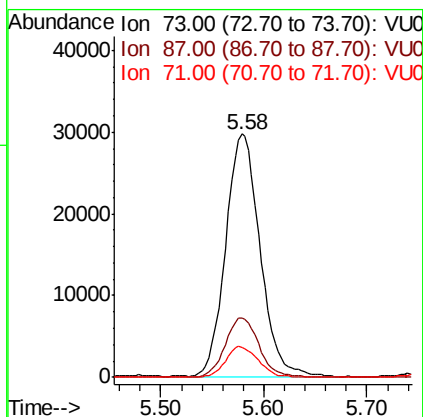
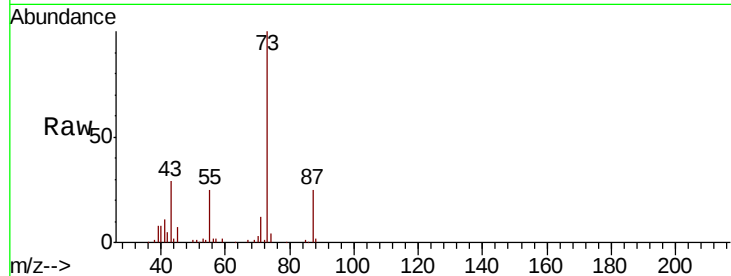


#33
Tert-Amyl methyl ether
Concen: 1.916 ug/l
RT: 5.58 min Scan# 1396
Delta R.T. -0.00 min
Lab File: VU030012.D
Acq: 12 Mar 2019 17:40

Instrument :
MSVOA_U
ClientSampleId :
VU0314WBSD01

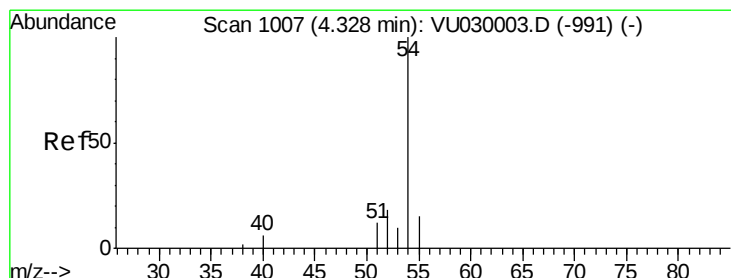
Tgt Ion	Ratio	Lower	Upper
73	100		
87	24.2	19.7	29.5
71	12.2	8.6	13.0

Manual Integrations
APPROVED



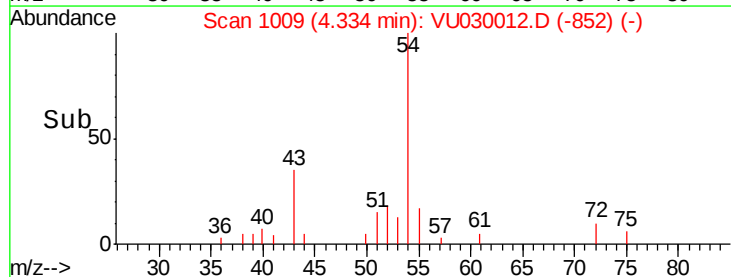
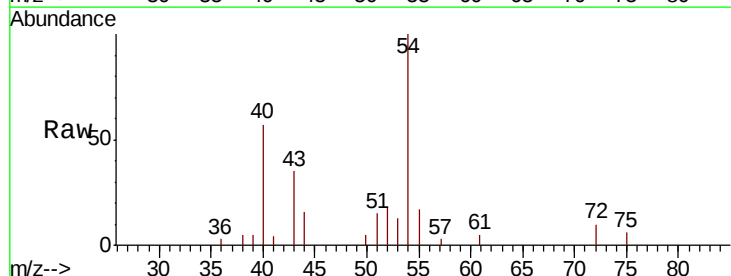
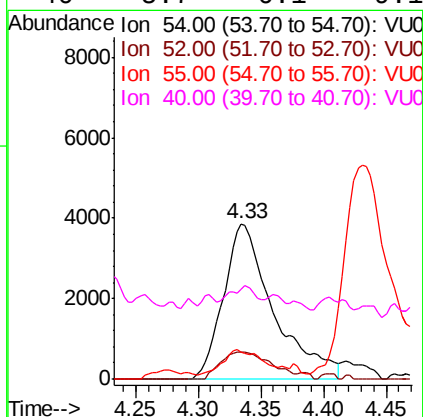
MMDadoda

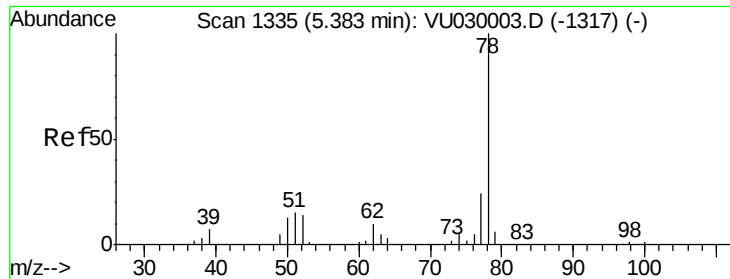
3/13/2019 12:56:33 PM



#34
Propionitrile
Concen: 9.892 ug/l
RT: 4.33 min Scan# 1009
Delta R.T. 0.01 min
Lab File: VU030012.D
Acq: 12 Mar 2019 17:40

Tgt Ion	Ratio	Lower	Upper
54	100		
52	17.4	15.8	23.6
55	13.2	12.5	18.7
40	5.7	6.1	9.1#





#35

Benzene

Concen: 1.937 ug/l

RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU030012.D

Acq: 12 Mar 2019 17:40

Instrument :

MSVOA_U

ClientSampleId :

VU0314WBSD01

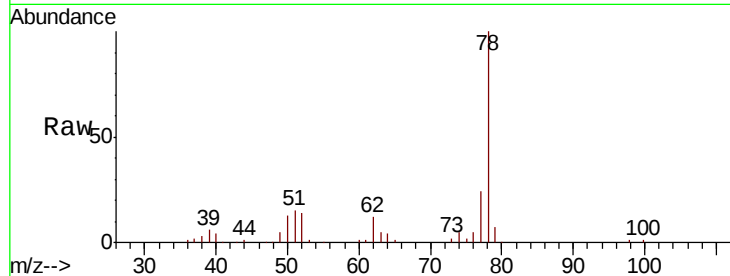
Tgt Ion: 78 Resp: 128974

Ion Ratio Lower Upper

78 100

77 23.5 18.9 28.3

Manual Integrations
APPROVED



Abundance Ion 78.10 (77.80 to 78.80): VU030003.D (-1317) (-)

Ion 77.00 (76.70 to 77.70): VU030003.D (-1317) (-)

5.39

60000

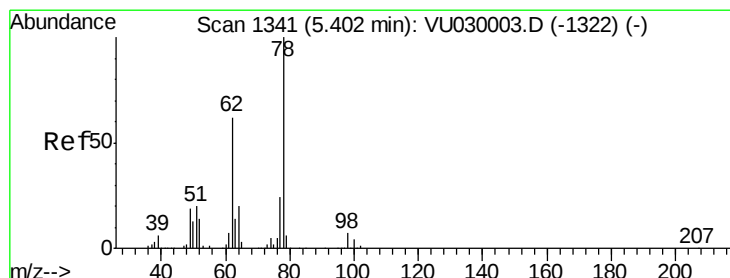
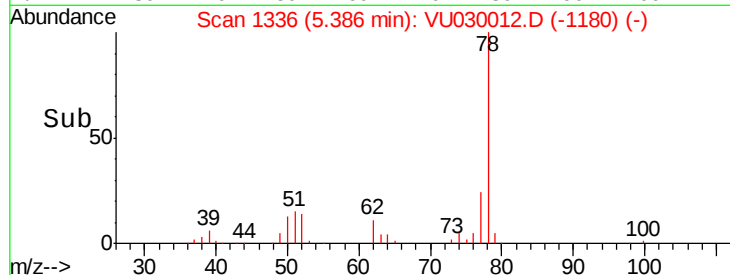
40000

20000

0

5.30 5.40 5.50

Time-->



#36

1,2-Dichloroethane

Concen: 1.898 ug/l

RT: 5.40 min Scan# 1341

Delta R.T. -0.00 min

Lab File: VU030012.D

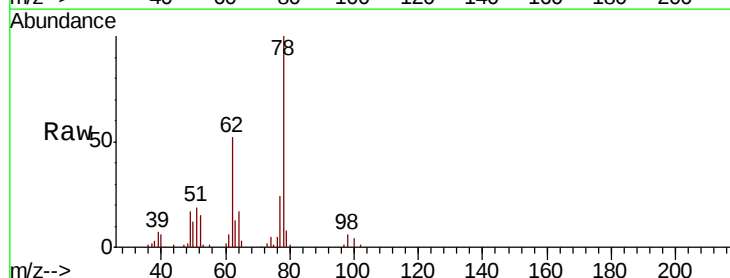
Acq: 12 Mar 2019 17:40

Tgt Ion: 62 Resp: 33796

Ion Ratio Lower Upper

62 100

98 9.6 8.4 12.6



Abundance Ion 62.00 (61.70 to 62.70): VU030003.D (-1322) (-)

Ion 98.00 (97.70 to 98.70): VU030003.D (-1322) (-)

5.40

15000

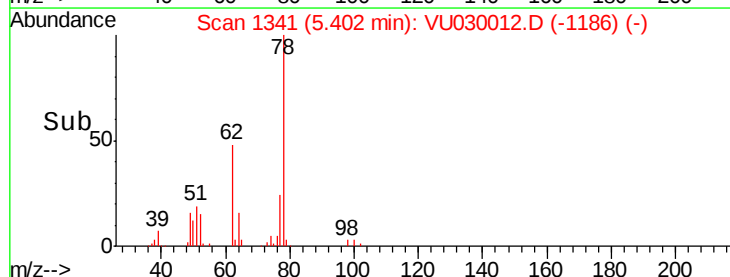
10000

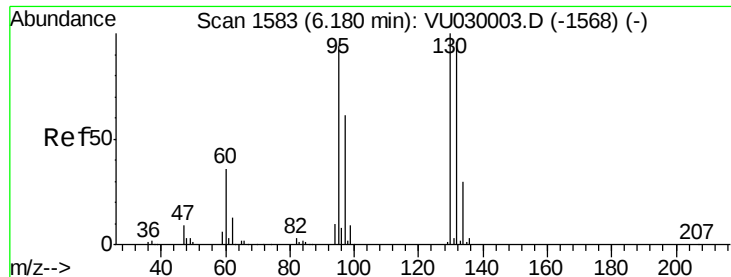
5000

0

5.30 5.35 5.40 5.45

Time-->



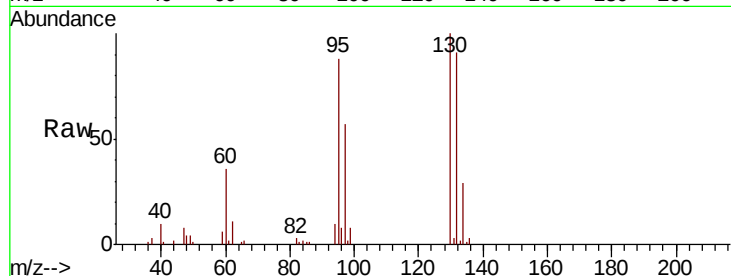


#37
 Trichloroethene
 Concen: 1.951 ug/l
 RT: 6.18 min Scan# 1583
 Delta R.T. -0.00 min
 Lab File: VU030012.D
 Acq: 12 Mar 2019 17:40

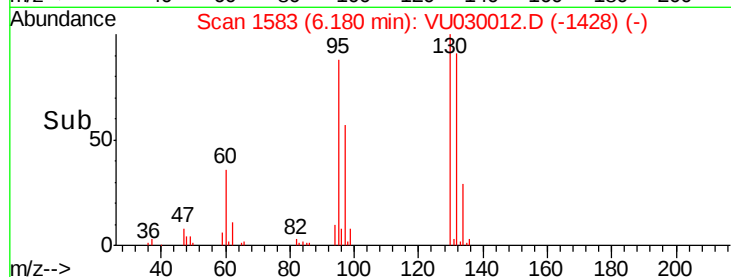
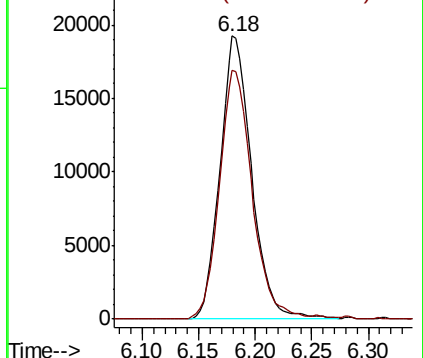
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0314WBSD01

Tgt Ion: 130 Resp: 37426
 Ion Ratio Lower Upper
 130 100
 95 87.9 75.2 112.8

Manual Integrations
 APPROVED

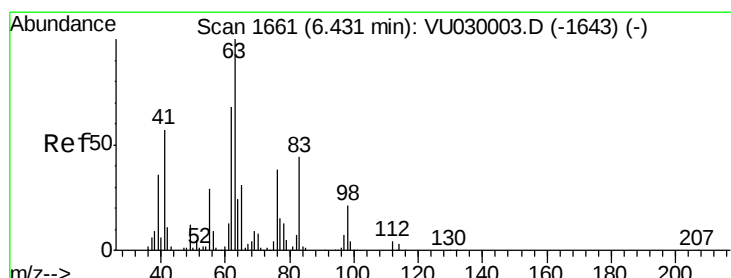


Abundance Ion 129.90 (129.60 to 130.60): VU030003.D (-1568) (-)
 Ion 94.90 (94.60 to 95.60): VU030003.D (-1568) (-)



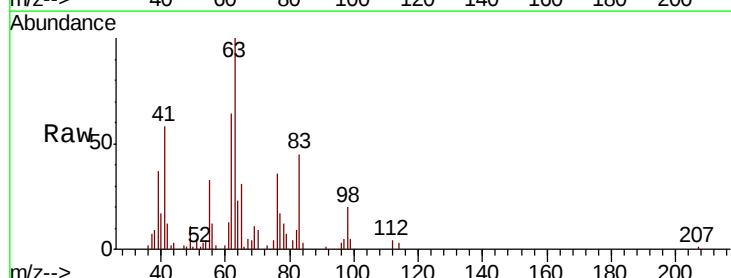
MMDadoda

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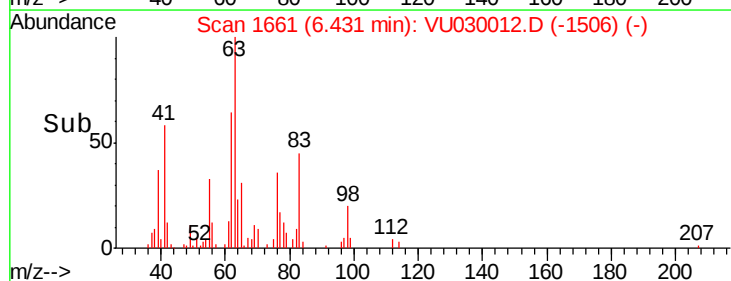
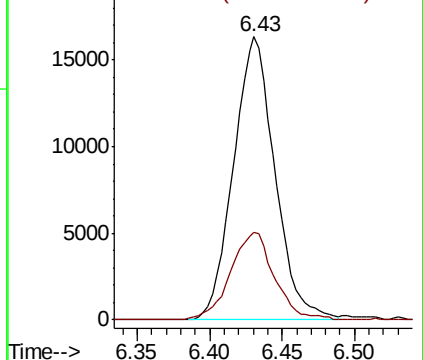


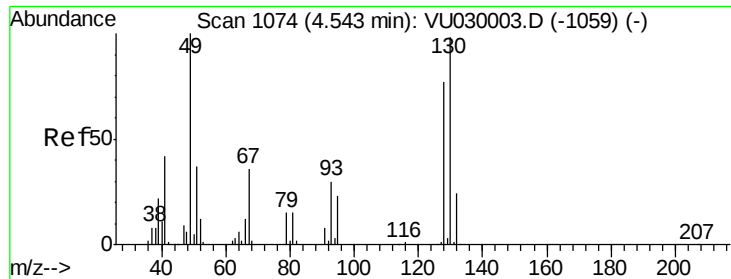
#38
 1,2-Dichloropropane
 Concen: 1.918 ug/l
 RT: 6.43 min Scan# 1661
 Delta R.T. -0.00 min
 Lab File: VU030012.D
 Acq: 12 Mar 2019 17:40

Tgt Ion: 63 Resp: 32475
 Ion Ratio Lower Upper
 63 100
 65 31.1 24.9 37.3



Abundance Ion 63.00 (62.70 to 63.70): VU030003.D (-1643) (-)
 Ion 65.00 (64.70 to 65.70): VU030003.D (-1643) (-)



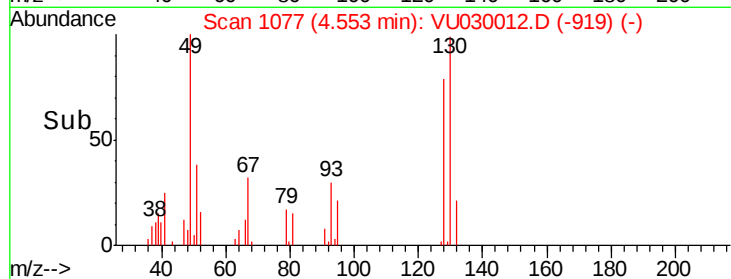
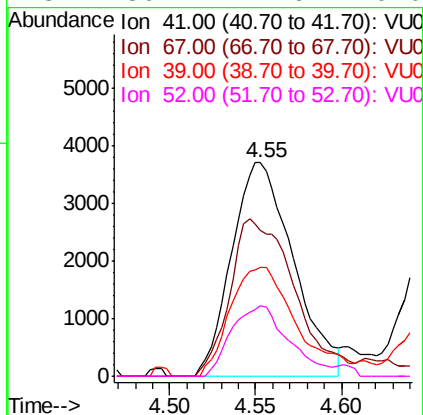
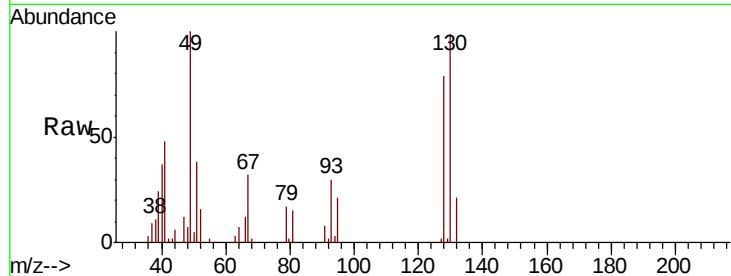


#39
Methacrylonitrile
Concen: 1.963 ug/l
RT: 4.55 min Scan# 1077
Delta R.T. 0.01 min
Lab File: VU030012.D
Acq: 12 Mar 2019 17:40

Instrument :
MSVOA_U
ClientSampleId :
VU0314WBSD01

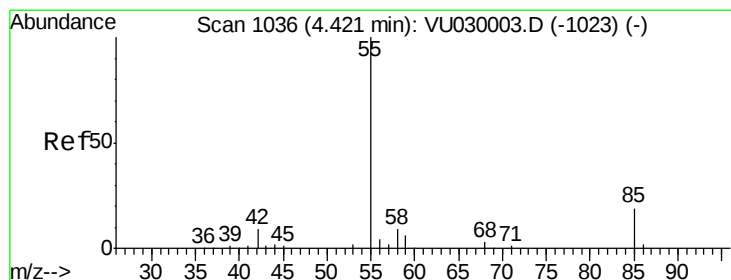
Tgt Ion	Ratio	Lower	Upper
41	100		
67	77.5	71.4	107.0
39	55.0	41.9	62.9
52	30.7	12.6	19.0

Manual Integrations
APPROVED



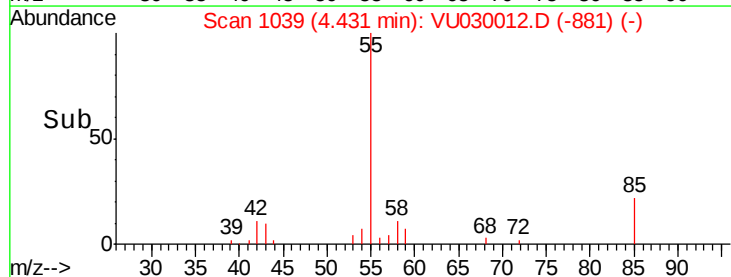
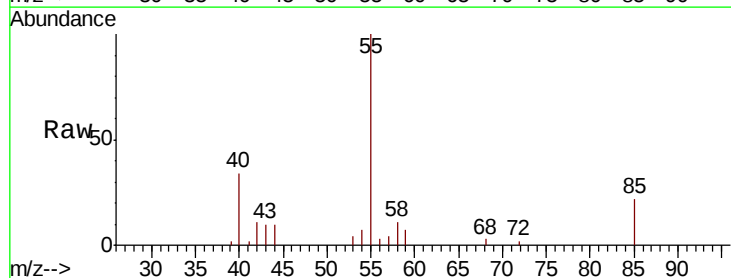
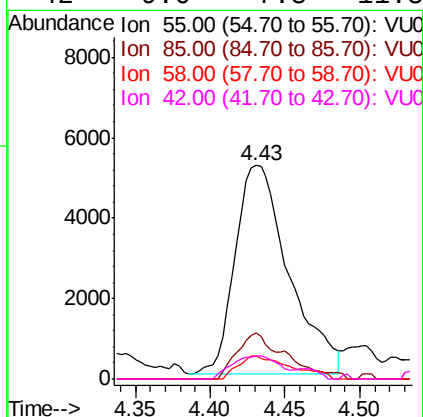
MMDadoda

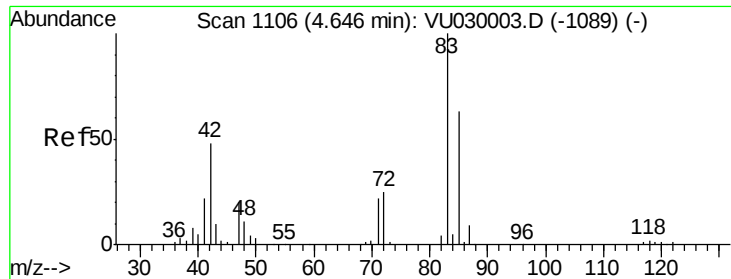
3/13/2019 12:56:33 PM



#40
Methyl acrylate
Concen: 1.749 ug/l
RT: 4.43 min Scan# 1039
Delta R.T. 0.01 min
Lab File: VU030012.D
Acq: 12 Mar 2019 17:40

Tgt Ion	Ratio	Lower	Upper
55	100		
85	20.1	16.2	24.2
58	10.8	7.0	10.6
42	9.6	7.8	11.8



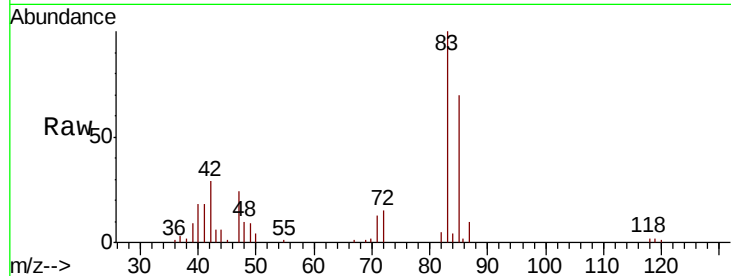


#41
Tetrahydrofuran
Concen: 3.388 ug/l
RT: 4.65 min Scan# 1108
Delta R.T. 0.01 min
Lab File: VU030012.D
Acq: 12 Mar 2019 17:40

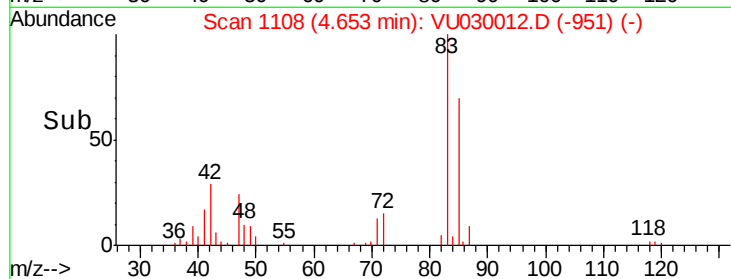
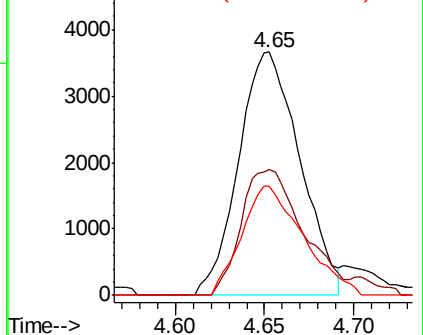
Instrument :
MSVOA_U
ClientSampleId :
VU0314WBSD01

Tgt Ion	Ratio	Lower	Upper
42	100		
72	52.6	44.9	67.3
71	45.0	37.8	56.8

Manual Integrations
APPROVED

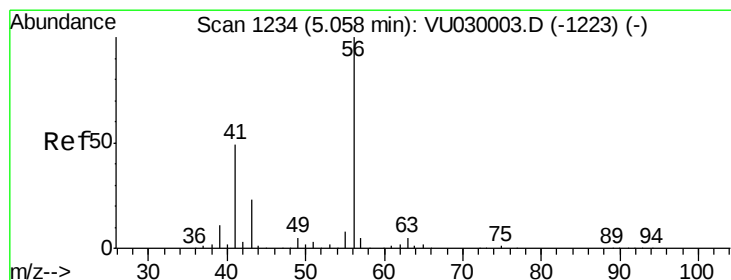


Abundance Ion 42.00 (41.70 to 42.70): VU0
Ion 72.00 (71.70 to 72.70): VU0
Ion 71.00 (70.70 to 71.70): VU0



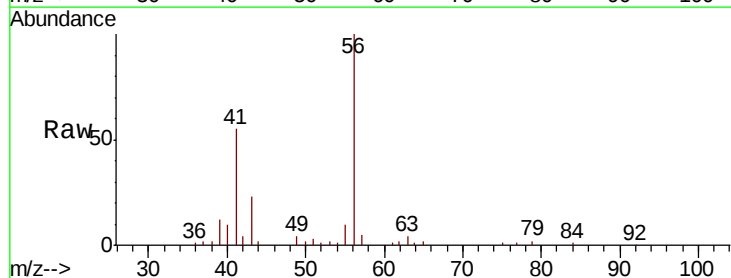
MMDadoda

3/13/2019 12:56:33 PM

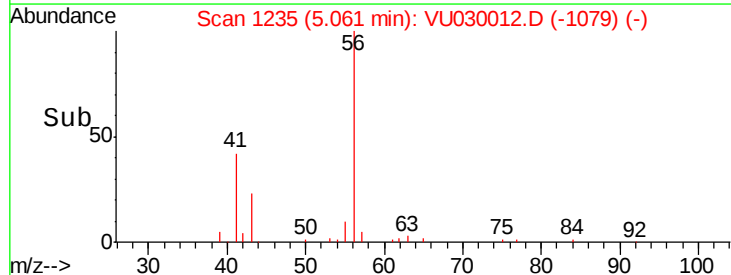
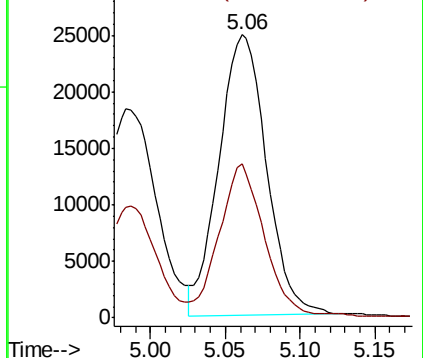


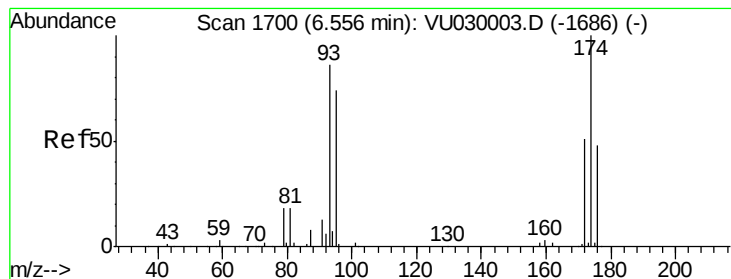
#42
1-Chlorobutane
Concen: 1.844 ug/l
RT: 5.06 min Scan# 1235
Delta R.T. 0.00 min
Lab File: VU030012.D
Acq: 12 Mar 2019 17:40

Tgt Ion	Ratio	Lower	Upper
56	100		
41	49.8	24.7	74.1



Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 41.00 (40.70 to 41.70): VU0





#43

Dibromomethane

Concen: 1.976 ug/l

RT: 6.56 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VU030012.D

Acq: 12 Mar 2019 17:40

Instrument :

MSVOA_U

ClientSampleId :

VU0314WBSD01

Tgt Ion: 93 Resp: 17305

Ion Ratio Lower Upper

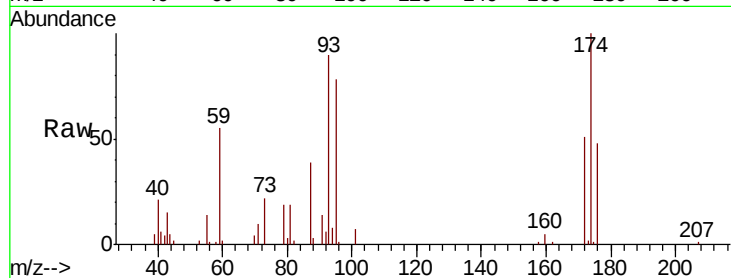
93 100

95 83.5 68.6 102.8

174 109.4 91.8 137.8

Manual Integrations

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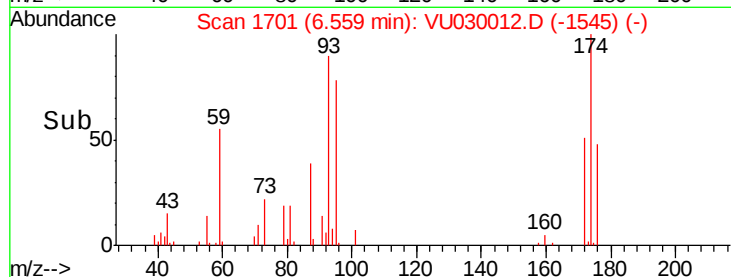
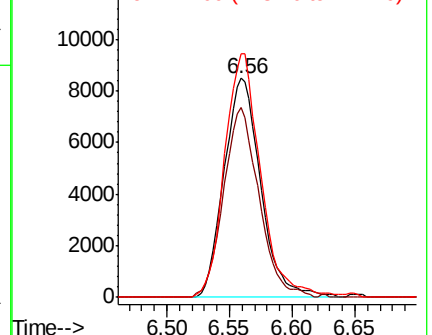


Abundance

Ion 93.00 (92.70 to 93.70): VU030003.D (-1686) (-)

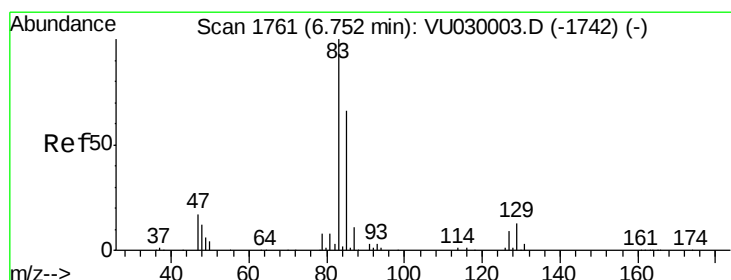
Ion 95.00 (94.70 to 95.70): VU030003.D (-1686) (-)

Ion 174.00 (173.70 to 174.70): VU030003.D (-1686) (-)



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#44

Bromodichloromethane

Concen: 1.934 ug/l

RT: 6.76 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VU030012.D

Acq: 12 Mar 2019 17:40

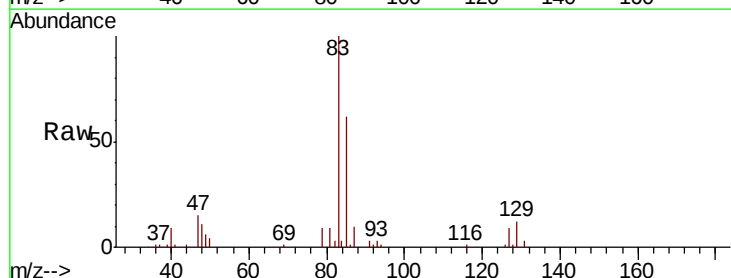
Tgt Ion: 83 Resp: 40409

Ion Ratio Lower Upper

83 100

85 61.9 53.2 79.8

127 8.8 7.4 11.0

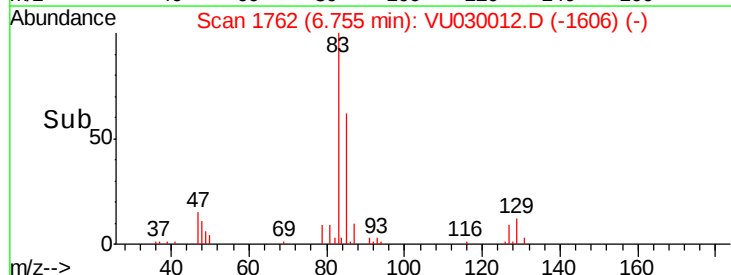
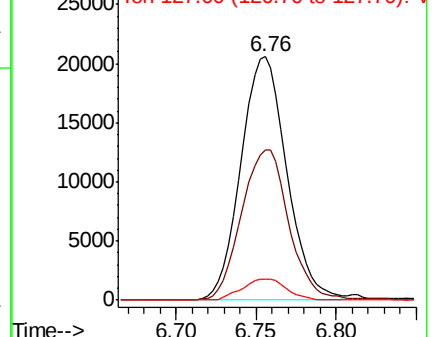


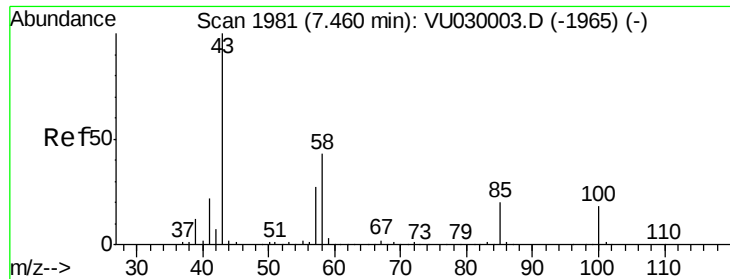
Abundance

Ion 83.00 (82.70 to 83.70): VU030003.D (-1742) (-)

Ion 85.00 (84.70 to 85.70): VU030003.D (-1742) (-)

Ion 127.00 (126.70 to 127.70): VU030003.D (-1742) (-)



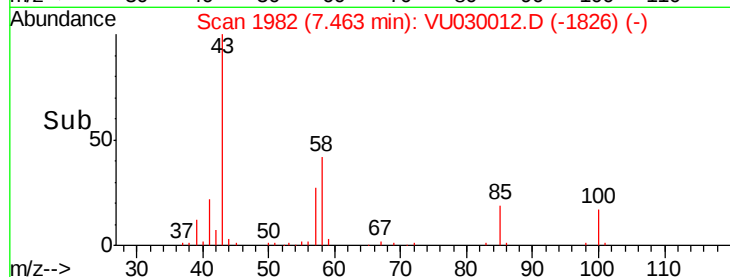
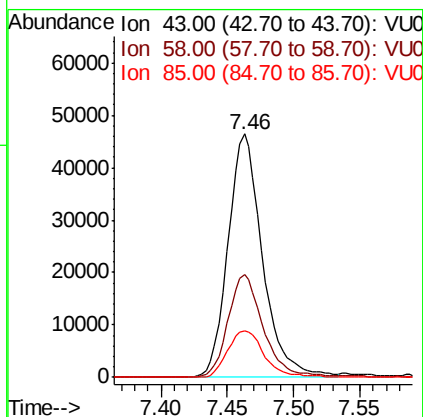
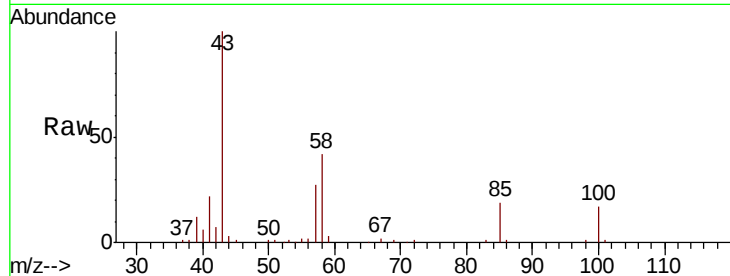


#45
4-Methyl-2-Pentanone
Concen: 9.717 ug/l
RT: 7.46 min Scan# 1982
Delta R.T. 0.00 min
Lab File: VU030012.D
Acq: 12 Mar 2019 17:40

Instrument :
MSVOA_U
ClientSampleId :
VU0314WBSD01

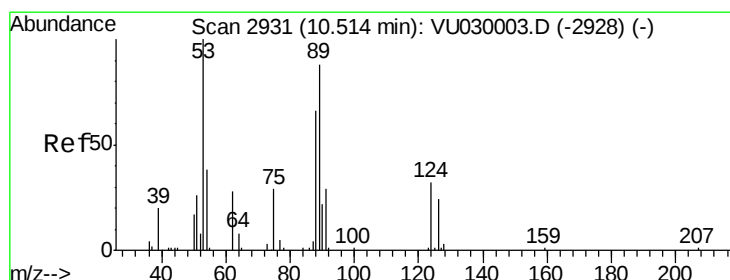
Tgt Ion	Ratio	Lower	Upper
43	100		
58	43.4	21.6	64.6
85	20.7	16.3	24.5

Manual Integrations
APPROVED



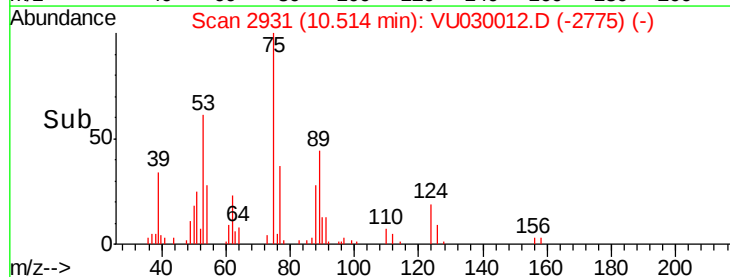
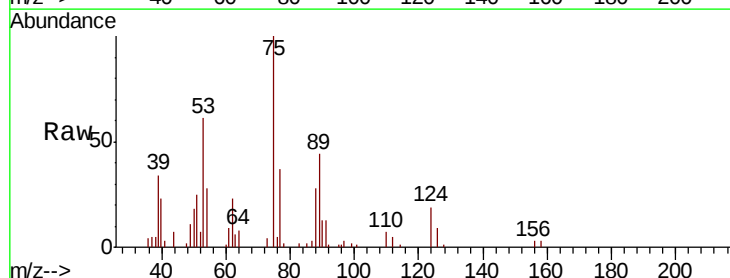
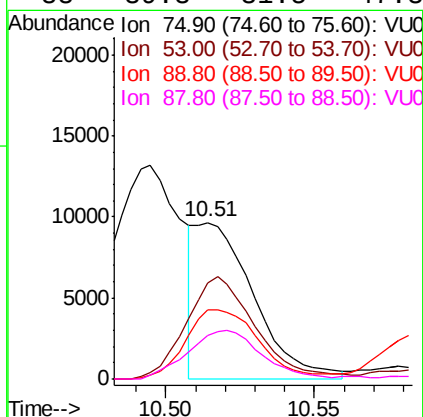
MMDadoda

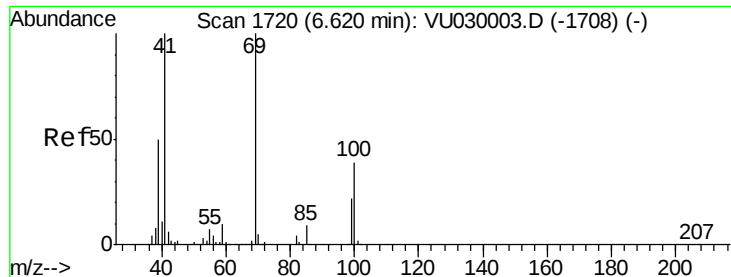
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#46
t-1,4-Dichloro-2-butene
Concen: 4.177 ug/l m
RT: 10.51 min Scan# 2931
Delta R.T. 0.00 min
Lab File: VU030012.D
Acq: 12 Mar 2019 17:40

Tgt Ion	Ratio	Lower	Upper
75	100		
53	77.7	57.0	85.6
89	55.2	43.6	65.4
88	39.3	31.5	47.3





#47

Methyl methacrylate

Concen: 3.799 ug/l

RT: 6.63 min Scan# 1722

Delta R.T. 0.01 min

Lab File: VU030012.D

Acq: 12 Mar 2019 17:40

Instrument :

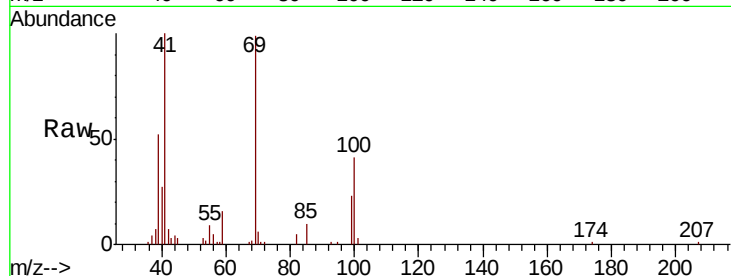
MSVOA_U

ClientSampleId :

VU0314WBSD01

Tgt Ion	Ion	Ratio	Lower	Upper
69	100			
41	102.2	0.0	197.8	
39	54.3	40.2	60.4	
100	38.7	31.0	46.6	

Manual Integrations
APPROVED



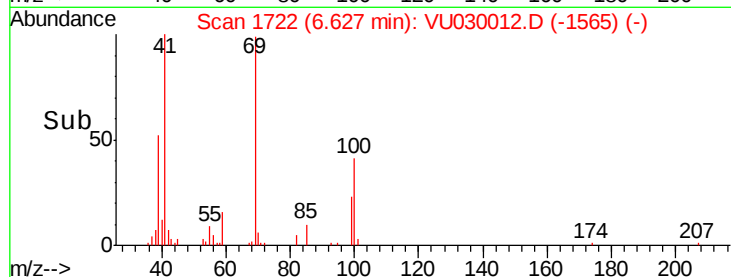
Abundance Ion 69.00 (68.70 to 69.70): VU030003.D (-1708) (-)

Ion 41.00 (40.70 to 41.70): VU030003.D (-1708) (-)

Ion 39.00 (38.70 to 39.70): VU030003.D (-1708) (-)

Ion 100.00 (99.70 to 100.70): VU030003.D (-1708) (-)

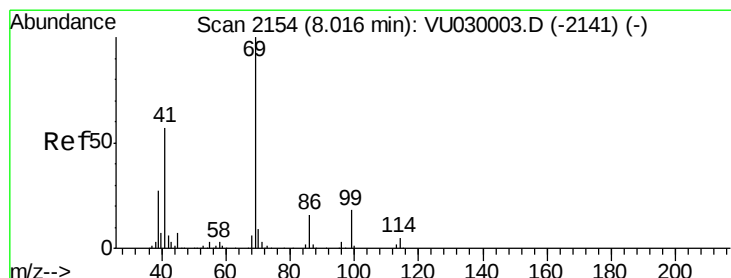
Time-->



Time-->

MMDadoda

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#48

Ethyl methacrylate

Concen: 1.987 ug/l

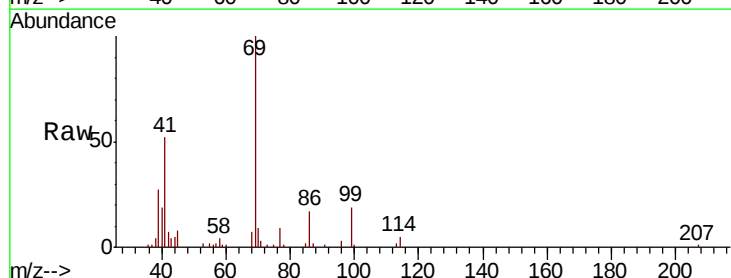
RT: 8.02 min Scan# 2155

Delta R.T. 0.00 min

Lab File: VU030012.D

Acq: 12 Mar 2019 17:40

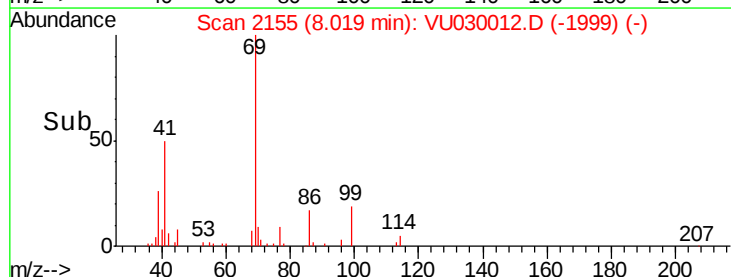
Tgt Ion	Ion	Ratio	Lower	Upper
69	100			
41	57.6	28.1	84.4	



Abundance Ion 69.00 (68.70 to 69.70): VU030003.D (-2141) (-)

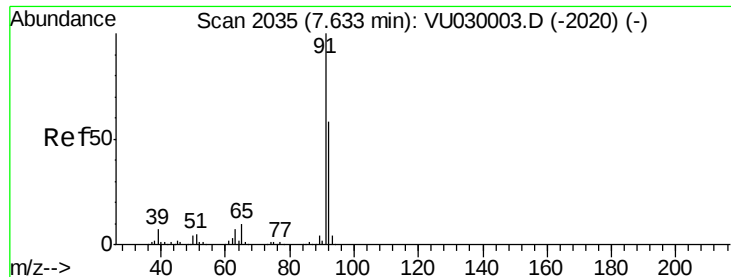
Ion 41.00 (40.70 to 41.70): VU030003.D (-2141) (-)

Time-->



Time-->

Time-->



#49

Toluene

Concen: 1.937 ug/l

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU030012.D

Acq: 12 Mar 2019 17:40

Instrument :

MSVOA_U

ClientSampleId :

VU0314WBSD01

Tgt Ion: 92 Resp: 77734

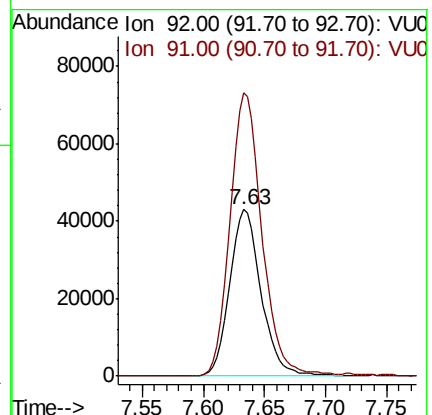
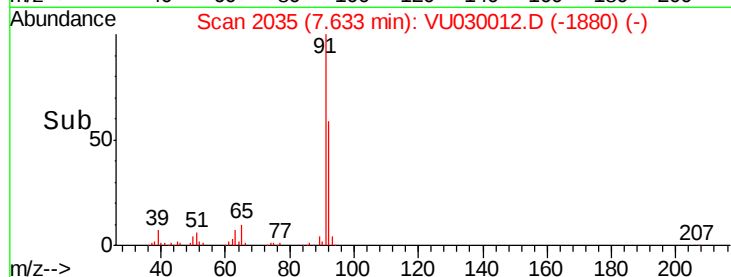
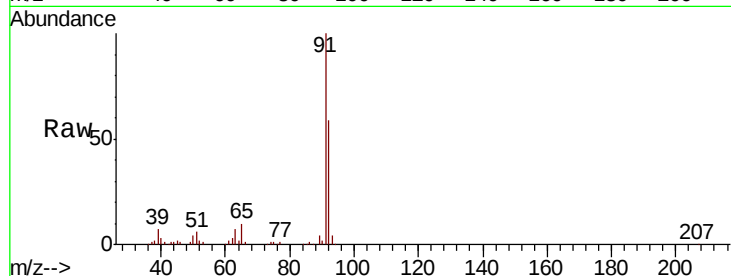
Ion Ratio Lower Upper

92 100

91 172.4 140.1 210.1

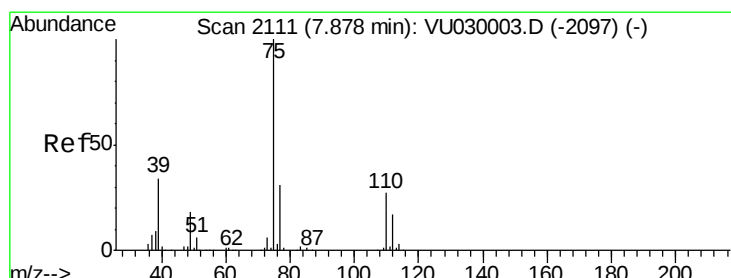
Manual Integrations

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#50

t-1,3-Dichloropropene

Concen: 1.904 ug/l

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VU030012.D

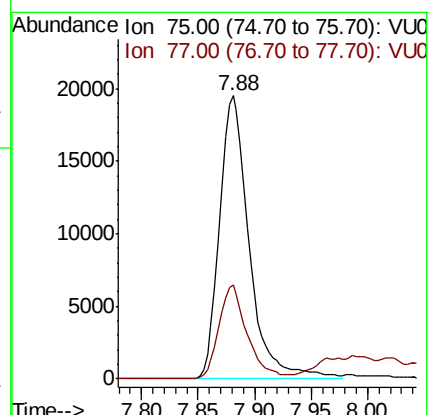
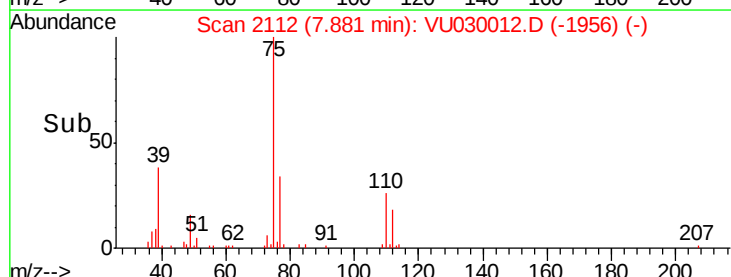
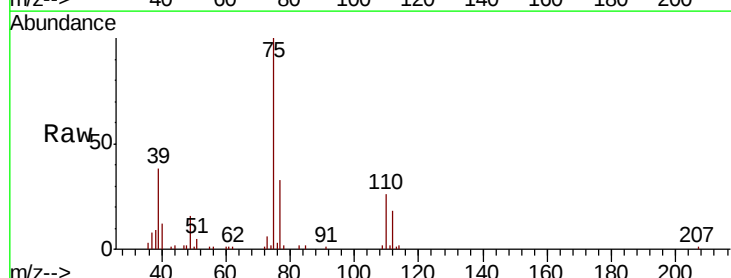
Acq: 12 Mar 2019 17:40

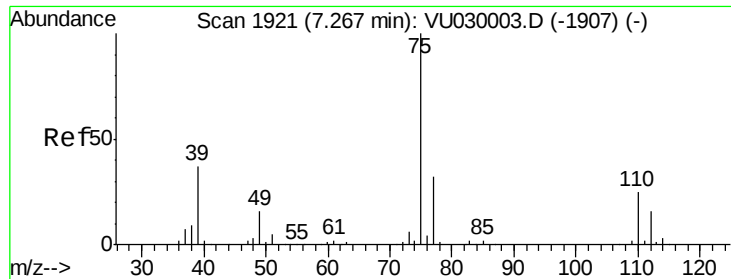
Tgt Ion: 75 Resp: 35631

Ion Ratio Lower Upper

75 100

77 33.3 25.1 37.7



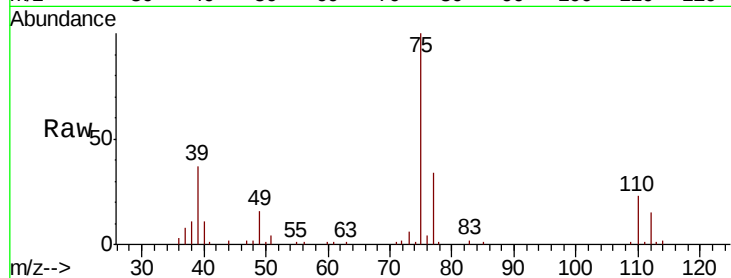


#51
 cis-1,3-Dichloropropene
 Concen: 1.840 ug/l
 RT: 7.27 min Scan# 1921
 Delta R.T. -0.00 min
 Lab File: VU030012.D
 Acq: 12 Mar 2019 17:40

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0314WBSD01

Tgt Ion	Ratio	Lower	Upper
75	100		
77	33.5	26.0	39.0
39	36.9	29.5	44.3

Manual Integrations
 APPROVED

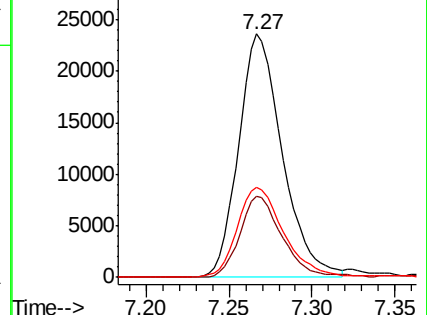
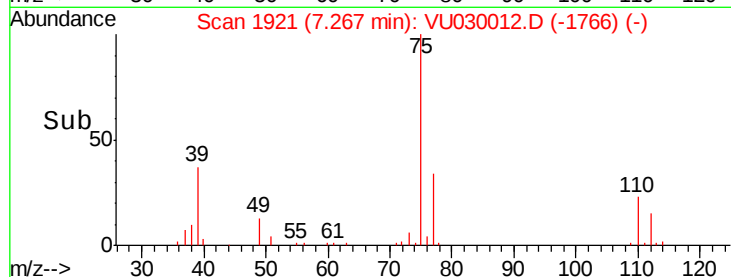


Abundance

Ion 75.00 (74.70 to 75.70): VU030012.D (-1766) (-)

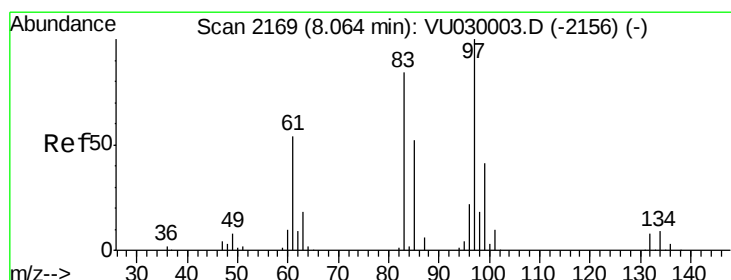
Ion 77.00 (76.70 to 77.70): VU030012.D (-1766) (-)

Ion 39.00 (38.70 to 39.70): VU030012.D (-1766) (-)



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#52
 1,1,2-Trichloroethane
 Concen: 1.983 ug/l
 RT: 8.06 min Scan# 2169
 Delta R.T. -0.00 min
 Lab File: VU030012.D
 Acq: 12 Mar 2019 17:40

Tgt Ion	Ratio	Lower	Upper
97	100		
83	89.6	67.4	101.0
85	55.8	42.6	64.0
99	56.3	48.9	73.3

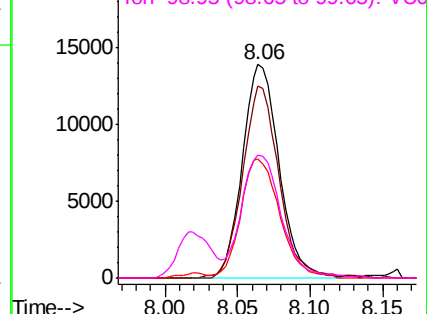
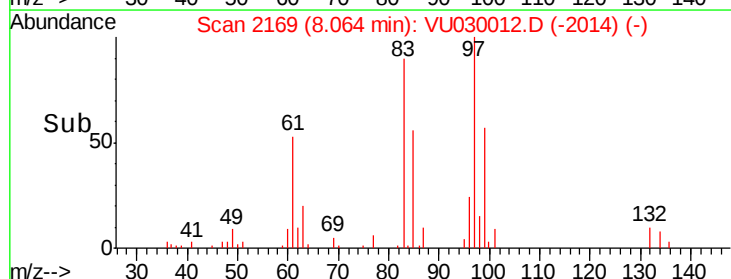
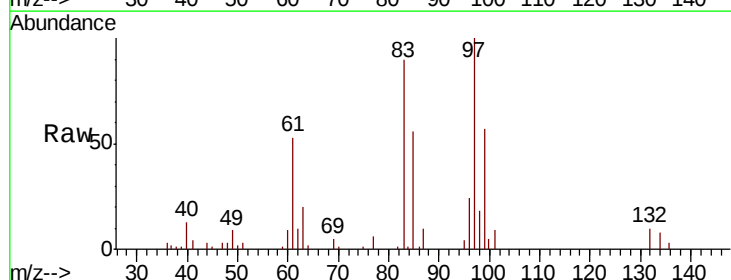
Abundance

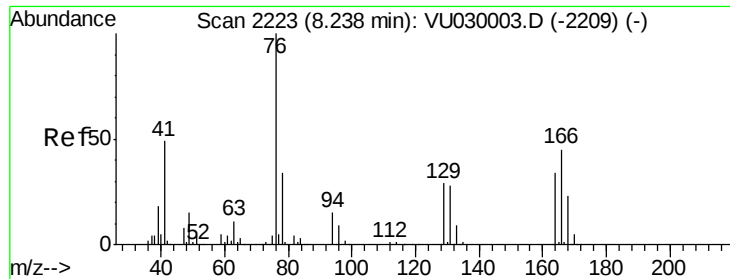
Ion 97.00 (96.70 to 97.70): VU030012.D (-2014) (-)

Ion 82.95 (82.65 to 83.65): VU030012.D (-2014) (-)

Ion 84.95 (84.65 to 85.65): VU030012.D (-2014) (-)

Ion 98.95 (98.65 to 99.65): VU030012.D (-2014) (-)



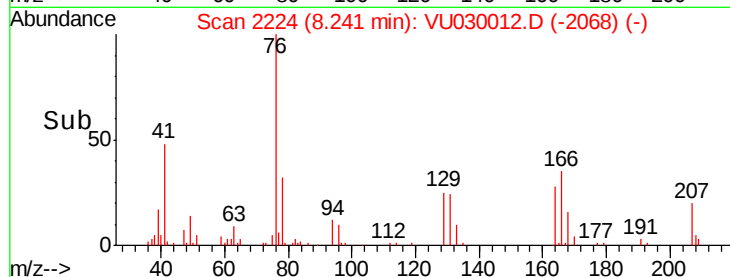
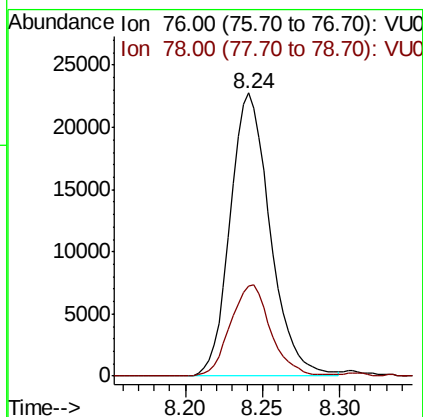
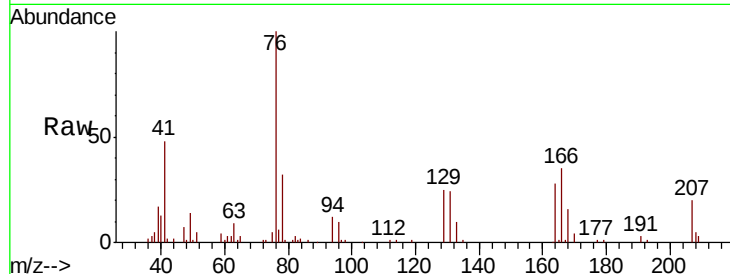


#53
 1,3-Dichloropropane
 Concen: 1.973 ug/l
 RT: 8.24 min Scan# 2224
 Delta R.T. 0.00 min
 Lab File: VU030012.D
 Acq: 12 Mar 2019 17:40

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0314WBSD01

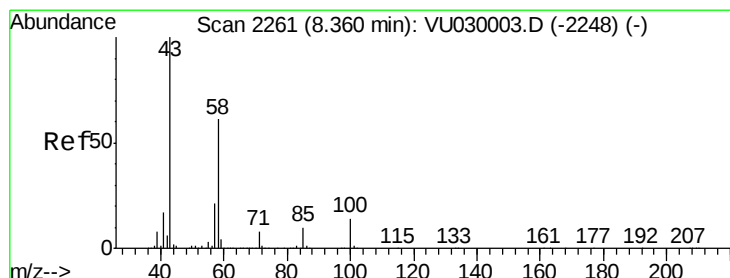
Tgt Ion: 76 Resp: 40859
 Ion Ratio Lower Upper
 76 100
 78 32.4 26.4 39.6

Manual Integrations
 APPROVED



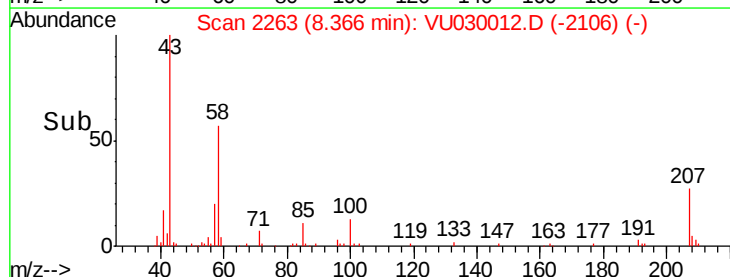
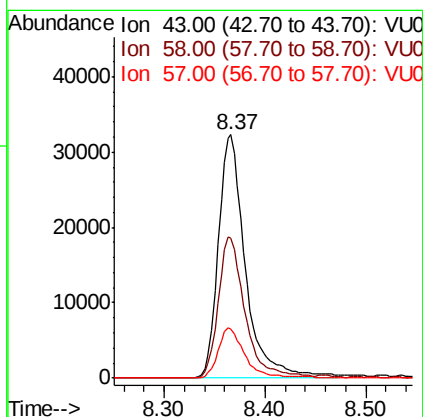
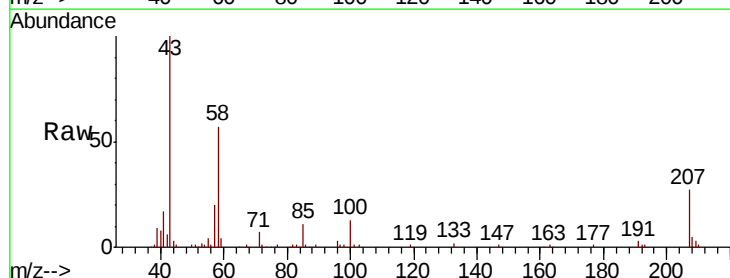
MMDadoda

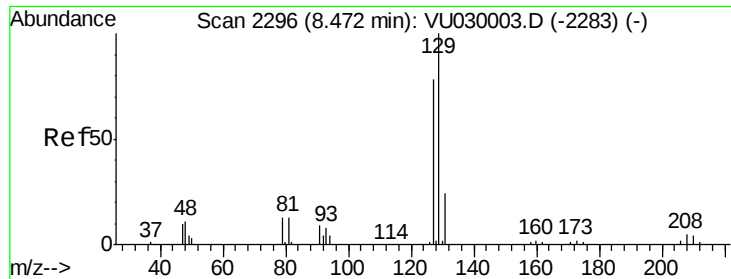
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#54
 2-Hexanone
 Concen: 9.737 ug/l
 RT: 8.37 min Scan# 2263
 Delta R.T. 0.01 min
 Lab File: VU030012.D
 Acq: 12 Mar 2019 17:40

Tgt Ion: 43 Resp: 60705
 Ion Ratio Lower Upper
 43 100
 58 57.2 40.3 80.3
 57 20.2 0.6 40.6



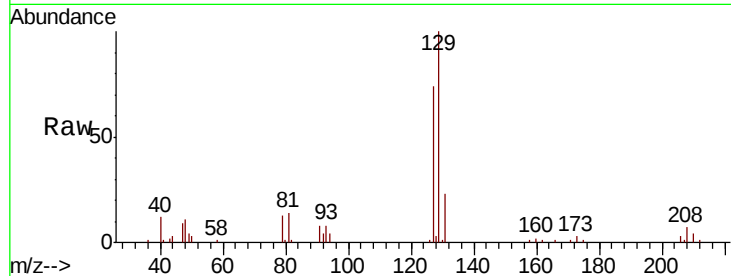


#55
 Dibromochloromethane
 Concen: 1.963 ug/l
 RT: 8.48 min Scan# 2297
 Delta R.T. 0.00 min
 Lab File: VU030012.D
 Acq: 12 Mar 2019 17:40

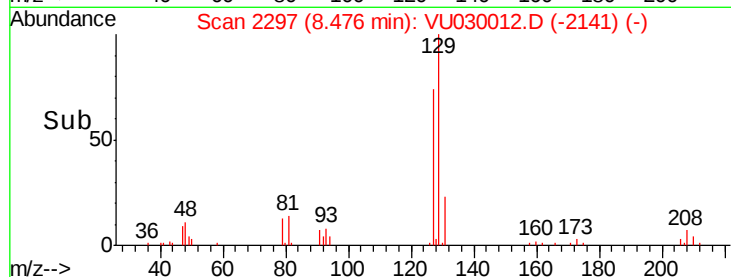
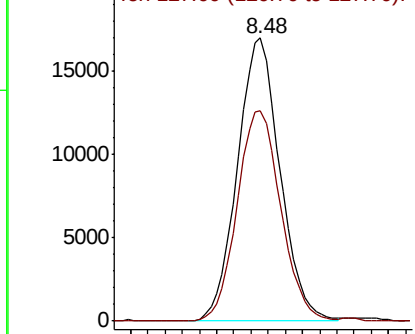
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0314WBSD01

Tgt Ion	Ratio	Lower	Upper
129	100		
127	75.9	62.4	93.6

Manual Integrations
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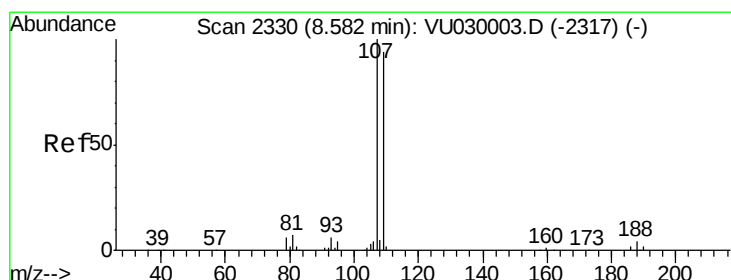


Abundance Ion 129.00 (128.70 to 129.70): V
 Ion 127.00 (126.70 to 127.70): V



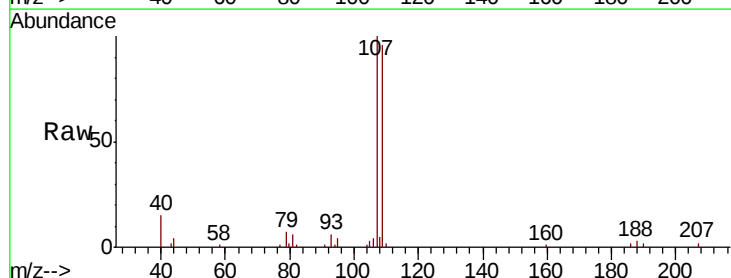
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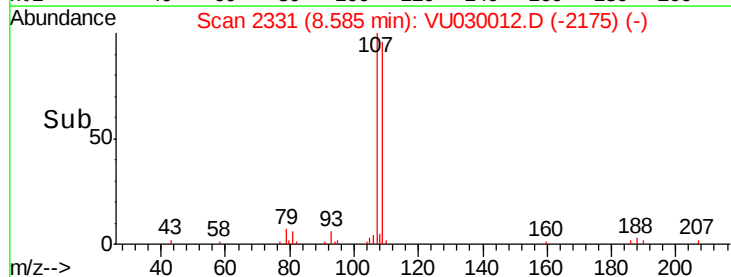
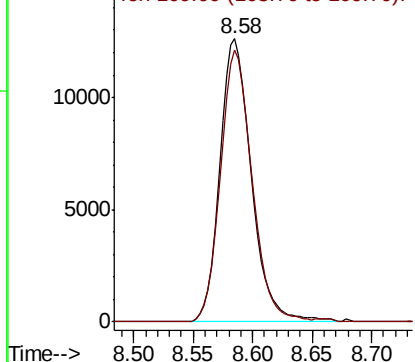


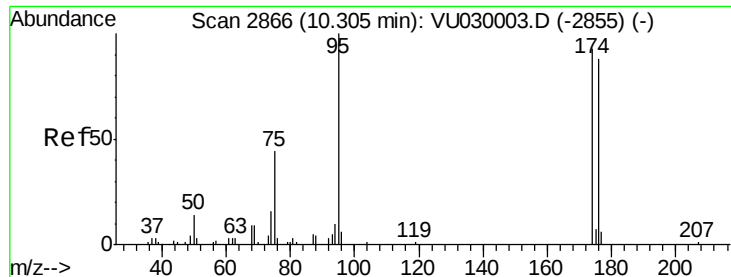
#56
 1,2-Dibromoethane
 Concen: 1.945 ug/l
 RT: 8.58 min Scan# 2331
 Delta R.T. 0.00 min
 Lab File: VU030012.D
 Acq: 12 Mar 2019 17:40

Tgt Ion	Ratio	Lower	Upper
107	100		
109	95.8	0.0	186.8



Abundance Ion 107.00 (106.70 to 107.70): V
 Ion 109.00 (108.70 to 109.70): V





#57

4-Bromofluorobenzene

Concen: 1.945 ug/l

RT: 10.31 min Scan# 2867

Delta R.T. 0.00 min

Lab File: VU030012.D

Acq: 12 Mar 2019 17:40

Instrument :

MSVOA_U

ClientSampleId :

VU0314WBSD01

Tgt Ion: 95 Resp: 20919

Ion Ratio Lower Upper

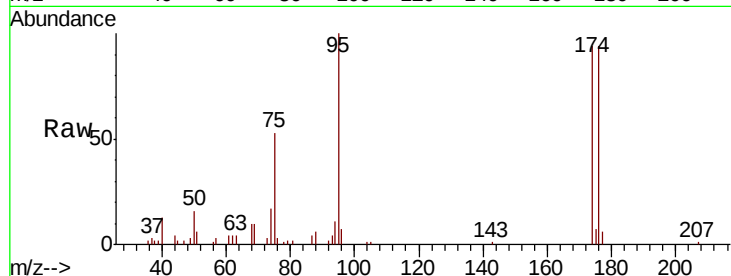
95 100

174 92.1 78.1 117.1

176 89.0 70.8 106.2

Manual Integrations

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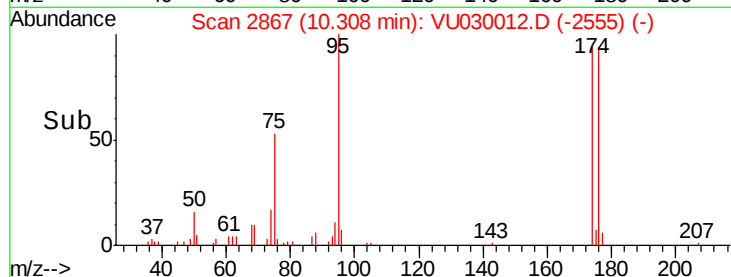
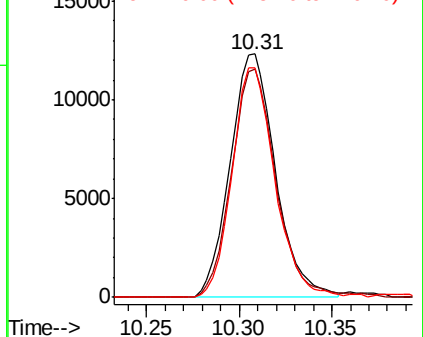


Abundance

Ion 95.00 (94.70 to 95.70): VU030003.D (-2855) (-)

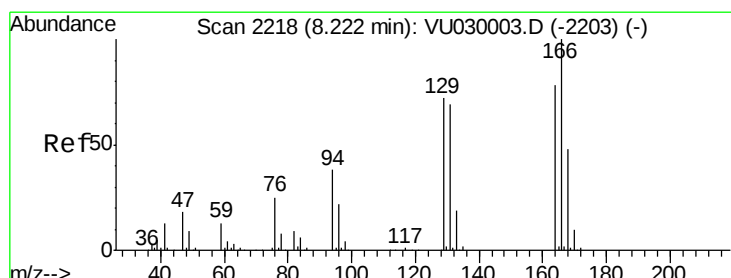
Ion 174.00 (173.70 to 174.70): VU030003.D (-2855) (-)

Ion 176.00 (175.70 to 176.70): VU030003.D (-2855) (-)



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#58

Tetrachloroethene

Concen: 1.936 ug/l

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VU030012.D

Acq: 12 Mar 2019 17:40

Tgt Ion: 164 Resp: 33720

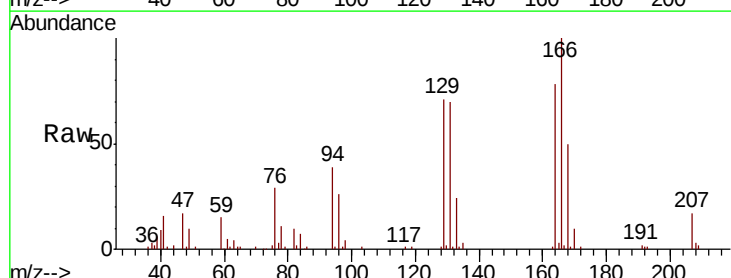
Ion Ratio Lower Upper

164 100

166 127.5 103.2 154.8

129 91.0 74.5 111.7

131 89.1 70.9 106.3



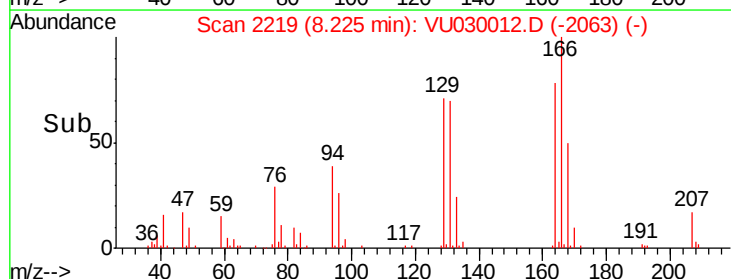
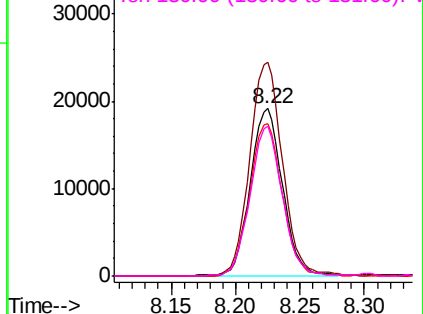
Abundance

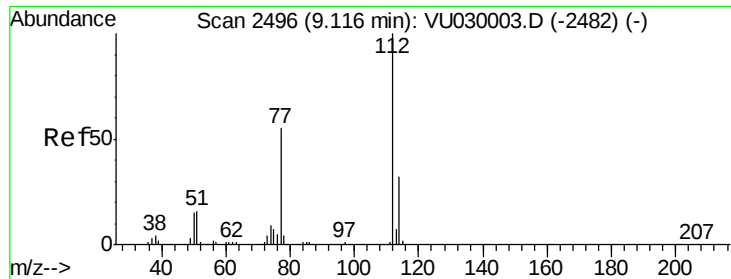
Ion 163.85 (163.55 to 164.55): VU030003.D (-2203) (-)

Ion 165.80 (165.50 to 166.50): VU030003.D (-2203) (-)

Ion 128.90 (128.60 to 129.60): VU030003.D (-2203) (-)

Ion 130.90 (130.60 to 131.60): VU030003.D (-2203) (-)



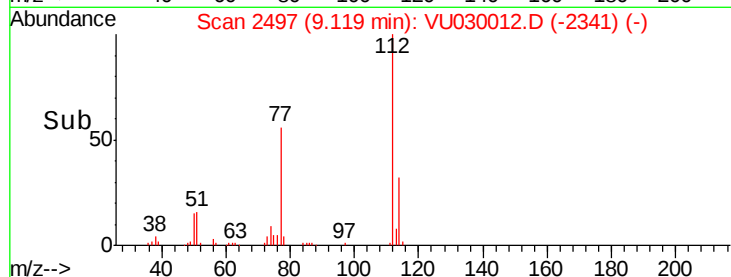
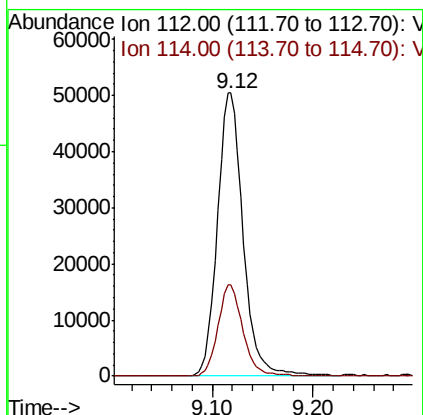
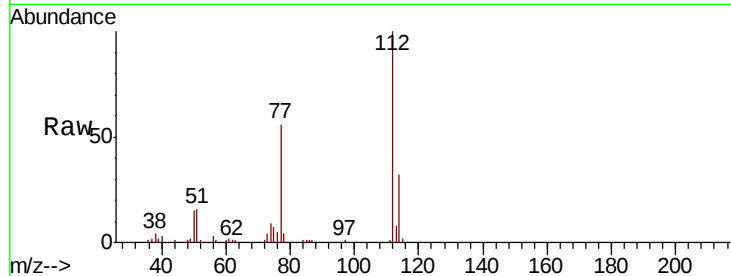


#59
Chlorobenzene
Concen: 1.957 ug/l
RT: 9.12 min Scan# 2497
Delta R.T. 0.00 min
Lab File: VU030012.D
Acq: 12 Mar 2019 17:40

Instrument :
MSVOA_U
ClientSampleId :
VU0314WBSD01

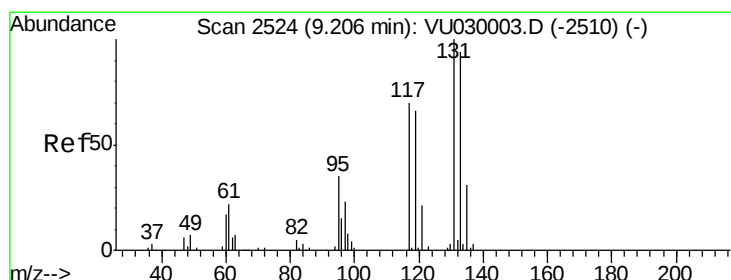
Tgt Ion:112 Resp: 89716
Ion Ratio Lower Upper
112 100
114 32.1 25.6 38.4

Manual Integrations
APPROVED



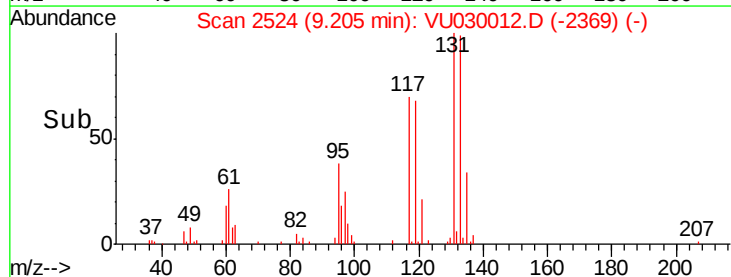
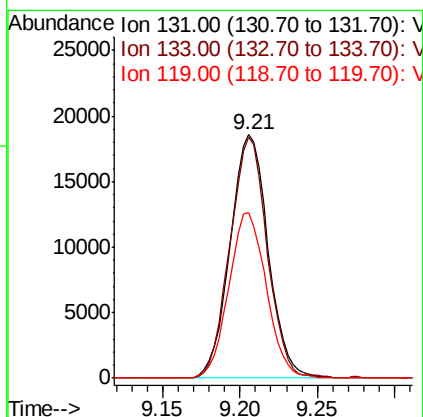
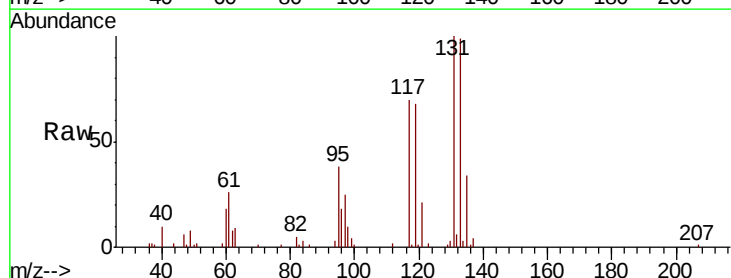
MMDadoda

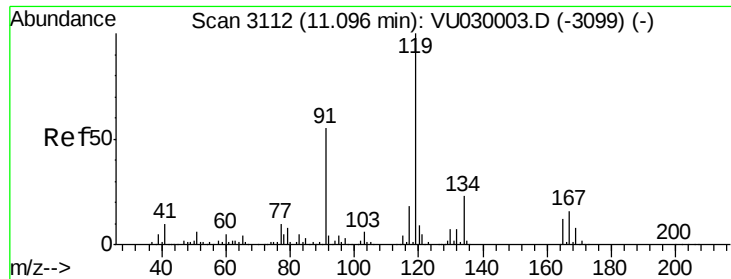
3/13/2019 12:56:33 PM



#60
1,1,1,2-Tetrachloroethane
Concen: 1.949 ug/l
RT: 9.21 min Scan# 2524
Delta R.T. -0.00 min
Lab File: VU030012.D
Acq: 12 Mar 2019 17:40

Tgt Ion:131 Resp: 31570
Ion Ratio Lower Upper
131 100
133 97.0 75.6 113.4
119 67.1 53.3 79.9



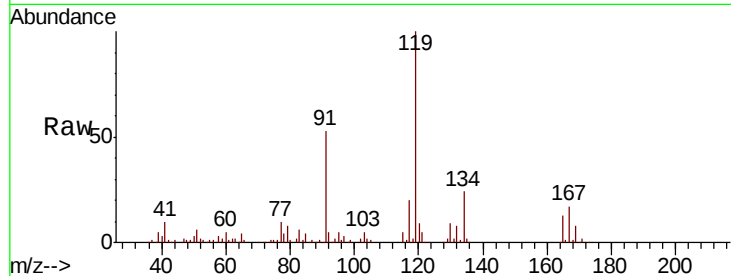


#61
 Pentachloroethane
 Concen: 1.911 ug/l
 RT: 11.10 min Scan# 3113
 Delta R.T. 0.00 min
 Lab File: VU030012.D
 Acq: 12 Mar 2019 17:40

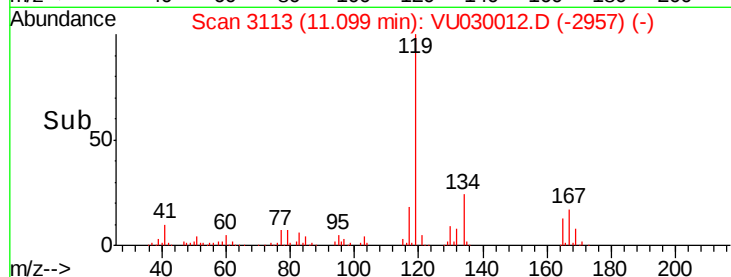
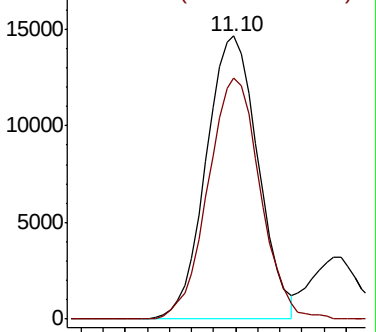
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0314WBSD01

Tgt Ion:117 Resp: 23890
 Ion Ratio Lower Upper
 117 100
 167 85.8 73.1 109.7

Manual Integrations
 APPROVED

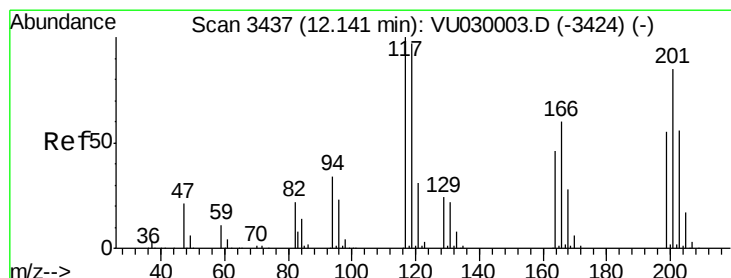


Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 166.70 (166.40 to 167.40): V



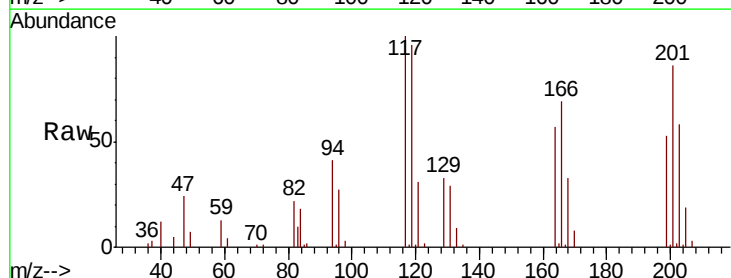
MMDadoda

3/13/2019 12:56:33 PM

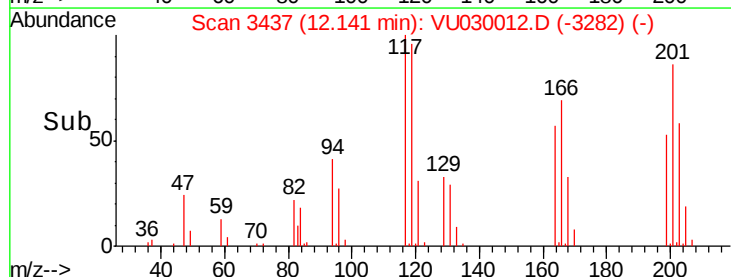
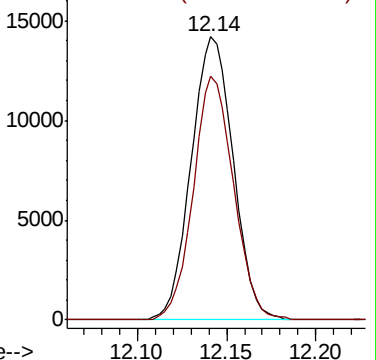


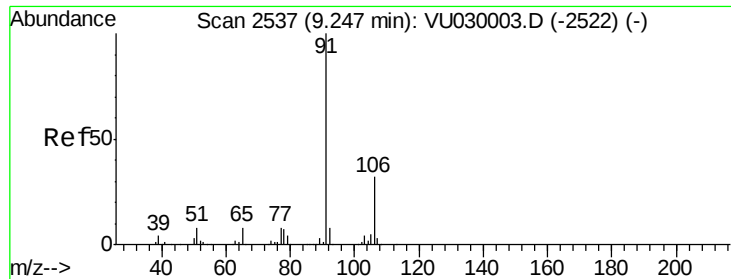
#62
 Hexachloroethane
 Concen: 1.858 ug/l
 RT: 12.14 min Scan# 3437
 Delta R.T. -0.00 min
 Lab File: VU030012.D
 Acq: 12 Mar 2019 17:40

Tgt Ion:117 Resp: 23401
 Ion Ratio Lower Upper
 117 100
 201 82.7 69.5 104.3



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 200.60 (200.30 to 201.30): V



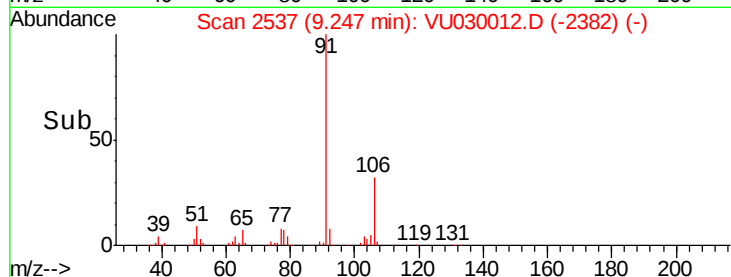
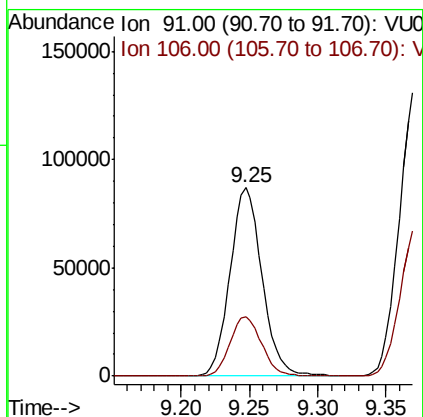
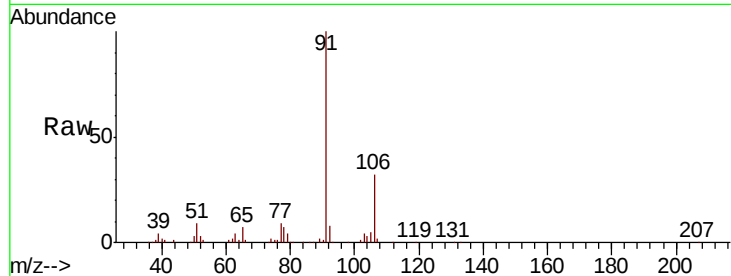


#63
Ethyl Benzene
Concen: 1.894 ug/l
RT: 9.25 min Scan# 2537
Delta R.T. -0.00 min
Lab File: VU030012.D
Acq: 12 Mar 2019 17:40

Instrument :
MSVOA_U
ClientSampleId :
VU0314WBSD01

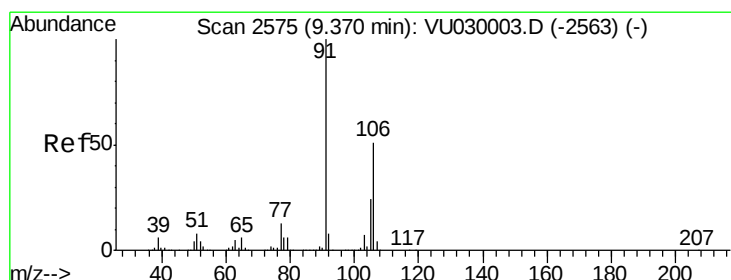
Tgt Ion: 91 Resp: 142584
Ion Ratio Lower Upper
91 100
106 31.6 25.7 38.5

Manual Integrations
APPROVED



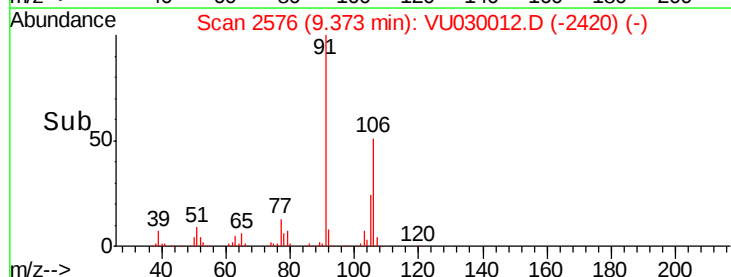
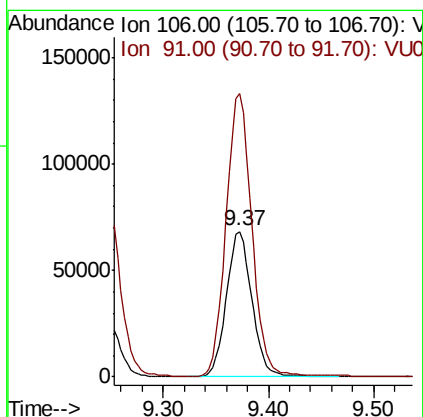
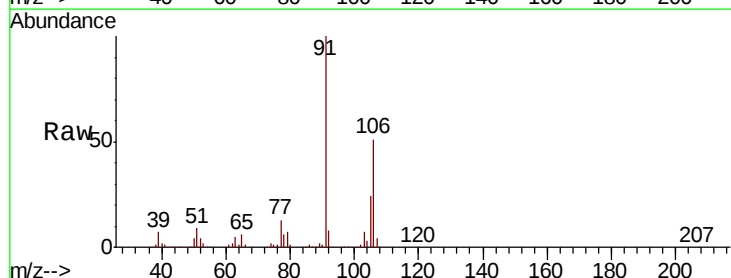
MMDadoda

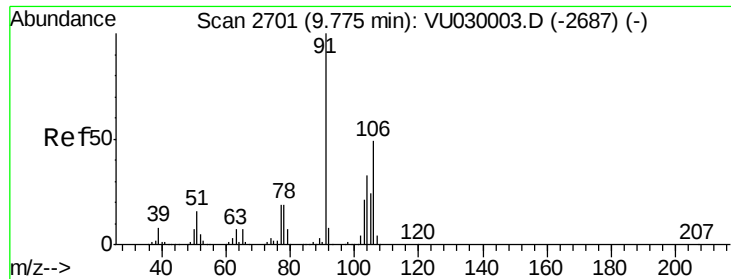
3/13/2019 12:56:33 PM



#64
m/p-Xylenes
Concen: 3.845 ug/l
RT: 9.37 min Scan# 2576
Delta R.T. 0.00 min
Lab File: VU030012.D
Acq: 12 Mar 2019 17:40

Tgt Ion: 106 Resp: 113910
Ion Ratio Lower Upper
106 100
91 196.7 157.9 236.9



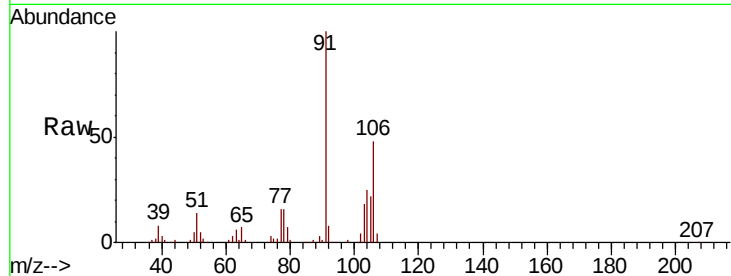


#65
o-Xylene
Concen: 1.861 ug/l
RT: 9.77 min Scan# 2701
Delta R.T. -0.00 min
Lab File: VU030012.D
Acq: 12 Mar 2019 17:40

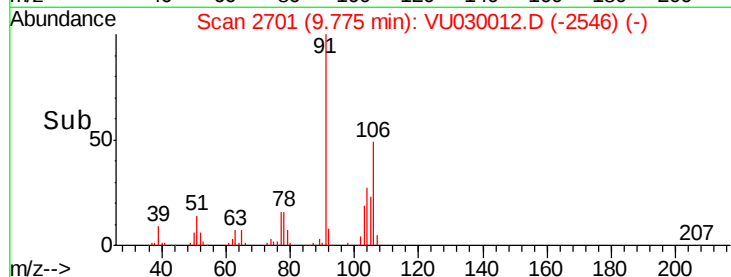
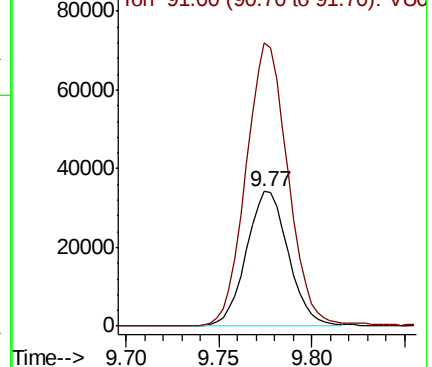
Instrument :
MSVOA_U
ClientSampleId :
VU0314WBSD01

Tgt Ion:106 Resp: 54088
Ion Ratio Lower Upper
106 100
91 211.4 103.2 309.4

Manual Integrations
APPROVED

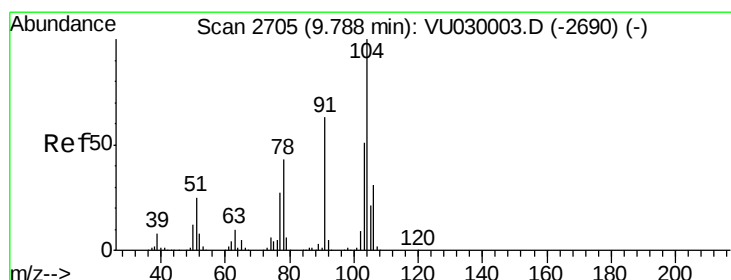


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0



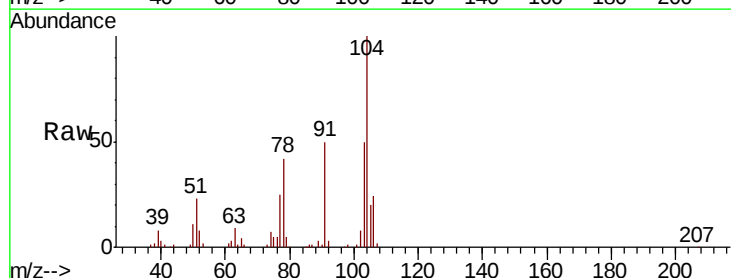
MMDadoda

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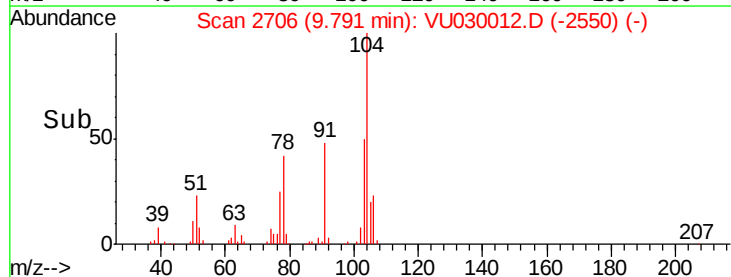
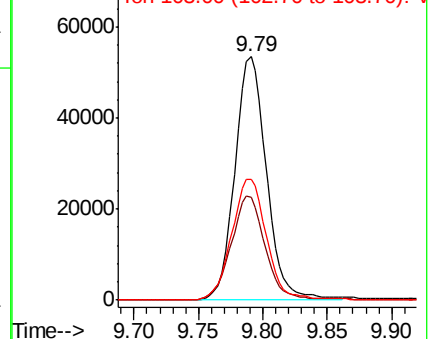


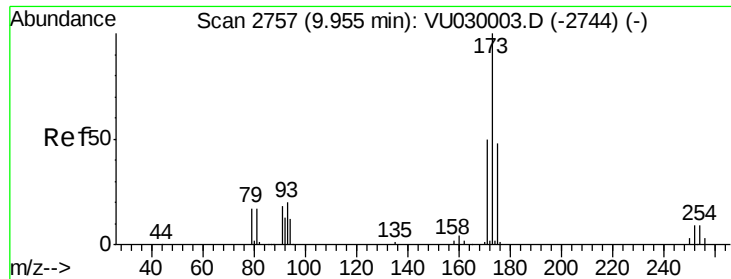
#66
Styrene
Concen: 1.915 ug/l
RT: 9.79 min Scan# 2706
Delta R.T. 0.00 min
Lab File: VU030012.D
Acq: 12 Mar 2019 17:40

Tgt Ion:104 Resp: 91216
Ion Ratio Lower Upper
104 100
78 45.7 37.0 55.4
103 54.3 43.8 65.6



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: 1.853 ug/l

RT: 9.96 min Scan# 2758

Delta R.T. 0.00 min

Lab File: VU030012.D

Acq: 12 Mar 2019 17:40

Instrument :

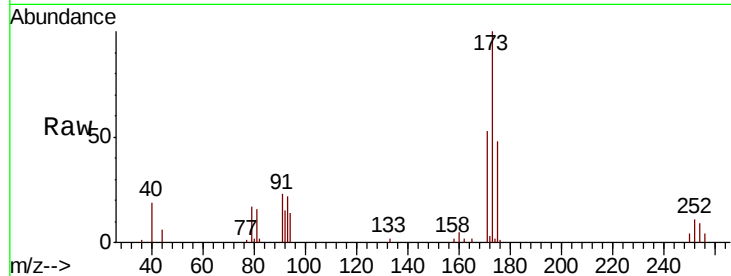
MSVOA_U

ClientSampleId :

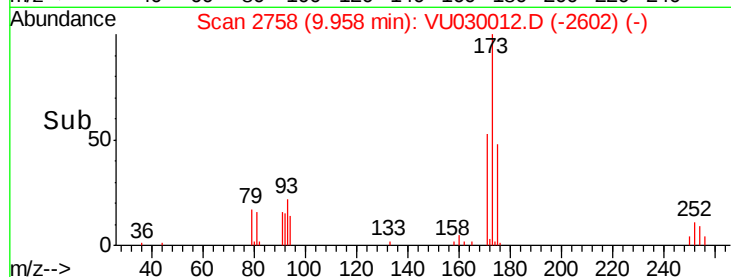
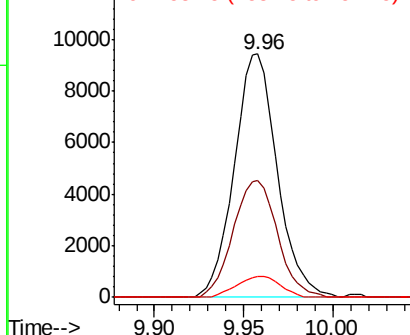
VU0314WBSD01

Tgt Ion:	173	Resp:	15771
Ion Ratio	Lower	Upper	
173	100		
175	49.5	39.0	58.4
254	8.7	7.0	10.4

Manual Integrations
APPROVED

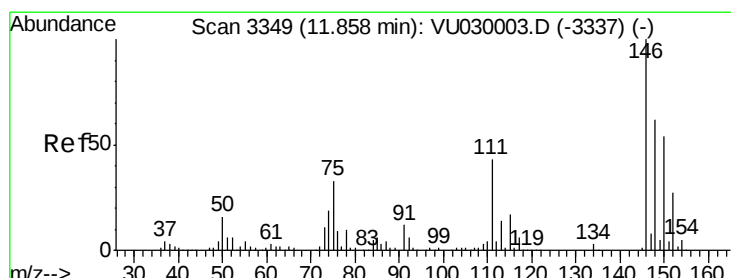


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 253.75 (253.45 to 254.45): V



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#68

1,2-Dichlorobenzene-d4

Concen: 1.853 ug/l

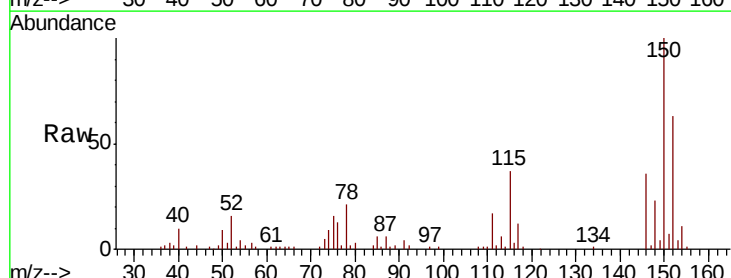
RT: 11.86 min Scan# 3349

Delta R.T. -0.00 min

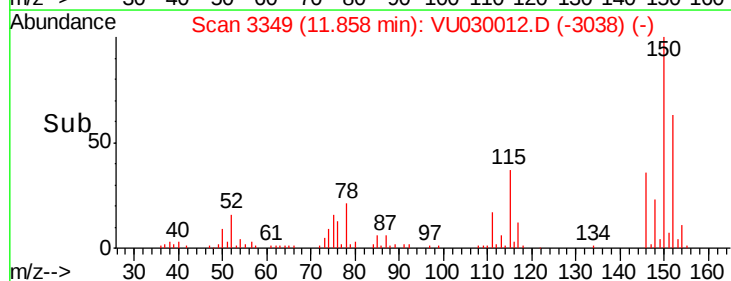
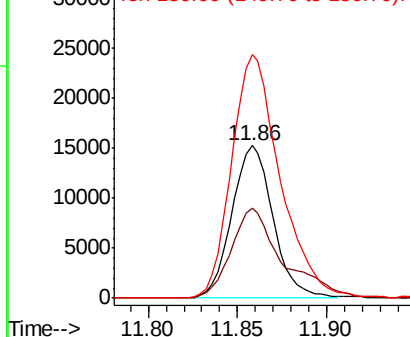
Lab File: VU030012.D

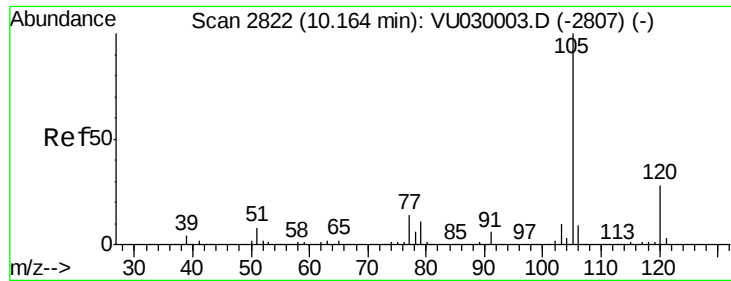
Acq: 12 Mar 2019 17:40

Tgt Ion:	152	Resp:	24420
Ion Ratio	Lower	Upper	
152	100		
115	74.1	0.0	126.8
150	189.6	0.0	634.2



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



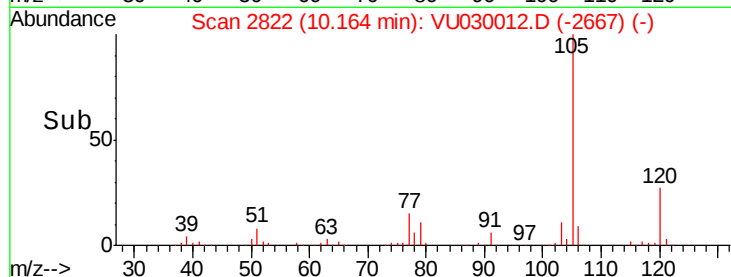
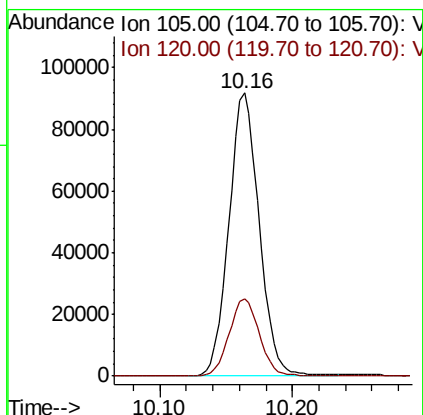
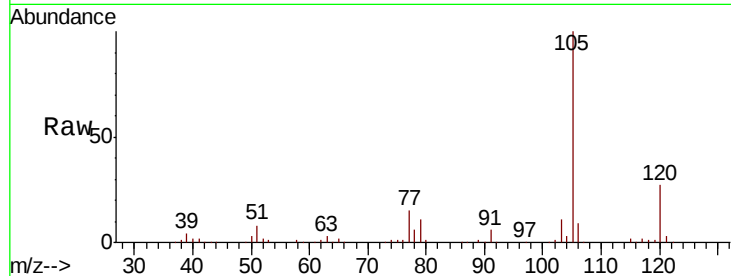


#69
Isopropylbenzene
Concen: 1.926 ug/l
RT: 10.16 min Scan# 2822
Delta R.T. -0.00 min
Lab File: VU030012.D
Acq: 12 Mar 2019 17:40

Instrument :
MSVOA_U
ClientSampleId :
VU0314WBSD01

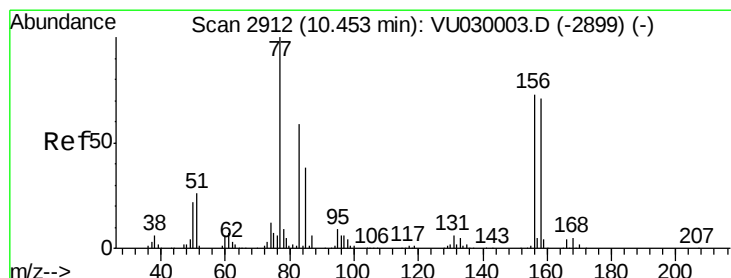
Tgt Ion: 105 Resp: 145912
Ion Ratio Lower Upper
105 100
120 27.4 13.5 40.5

Manual Integrations
APPROVED



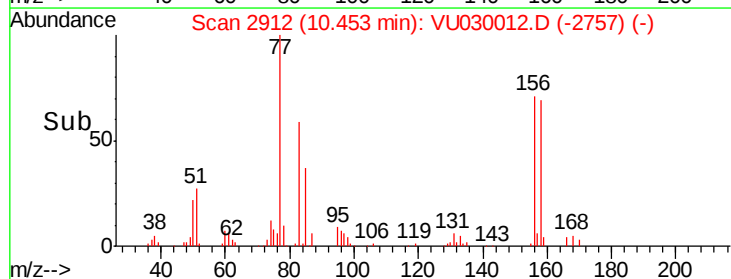
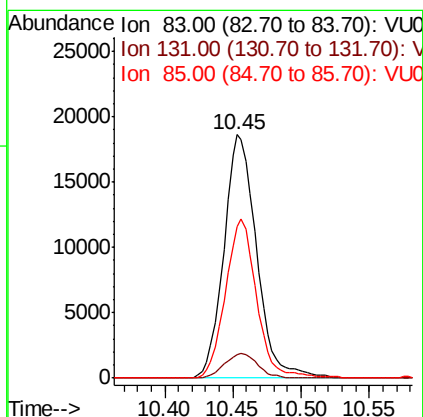
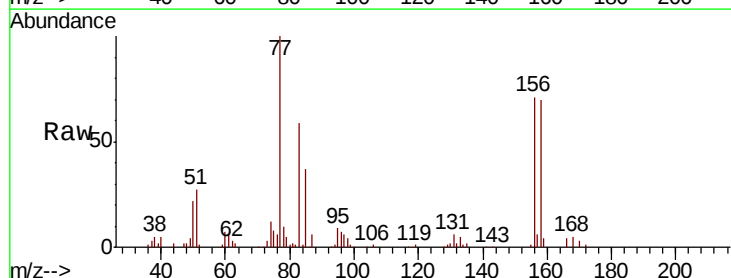
MMDadoda

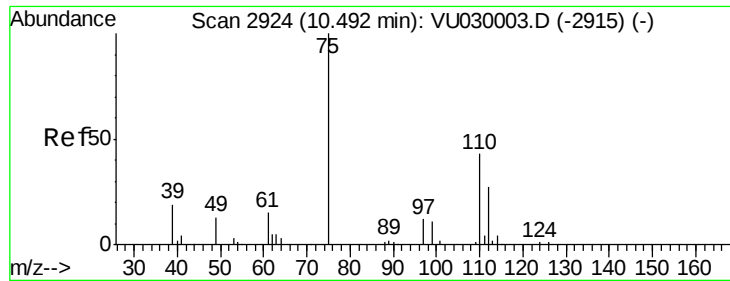
3/13/2019 12:56:33 PM



#70
1,1,2,2-Tetrachloroethane
Concen: 2.037 ug/l
RT: 10.45 min Scan# 2912
Delta R.T. -0.00 min
Lab File: VU030012.D
Acq: 12 Mar 2019 17:40

Tgt Ion: 83 Resp: 31078
Ion Ratio Lower Upper
83 100
131 10.1 8.4 12.6
85 62.2 52.6 78.8





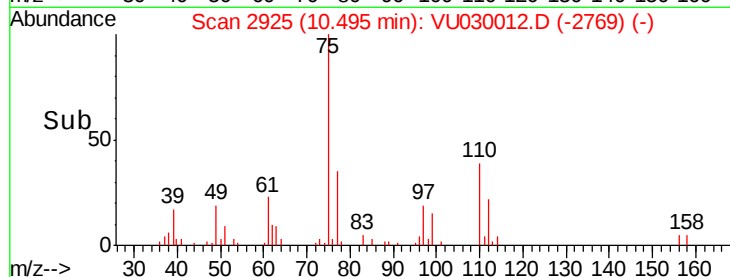
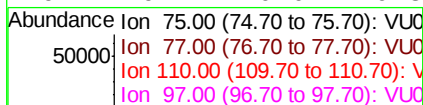
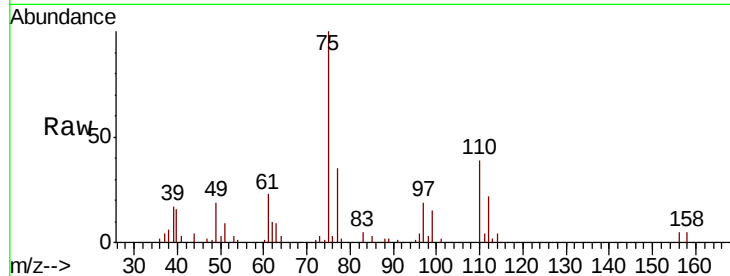
#71

1,2,3-Trichloropropane
Concen: 1.896 ug/l m
RT: 10.49 min Scan# 2925
Delta R.T. 0.00 min
Lab File: VU030012.D
Acq: 12 Mar 2019 17:40

Instrument :
MSVOA_U
ClientSampleId :
VU0314WBSD01

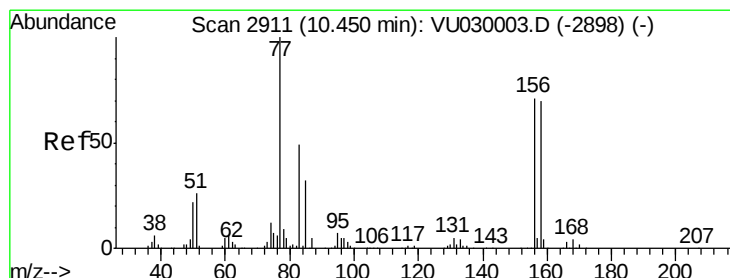
Tgt Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	16.8
110	38.4	0.0	76.8
97	19.4	0.0	40.8

Manual Integrations
APPROVED



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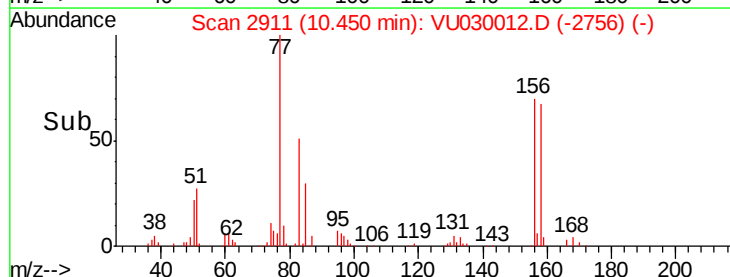
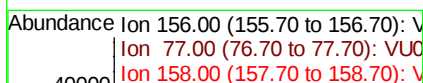
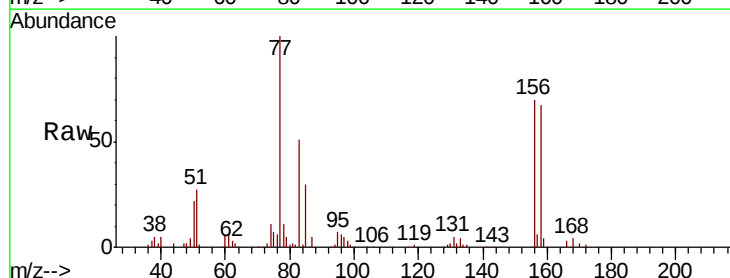
3/13/2019 12:56:33 PM

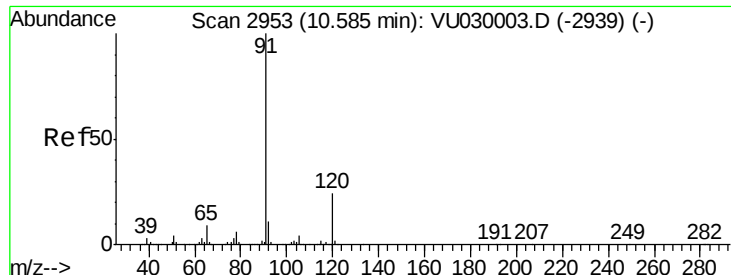


#72

Bromobenzene
Concen: 1.968 ug/l
RT: 10.45 min Scan# 2911
Delta R.T. -0.00 min
Lab File: VU030012.D
Acq: 12 Mar 2019 17:40

Tgt Ion	Ratio	Lower	Upper
156	100		
77	141.5	0.0	278.6
158	96.3	0.0	195.2



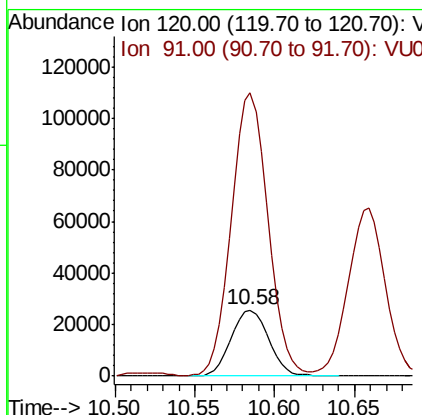
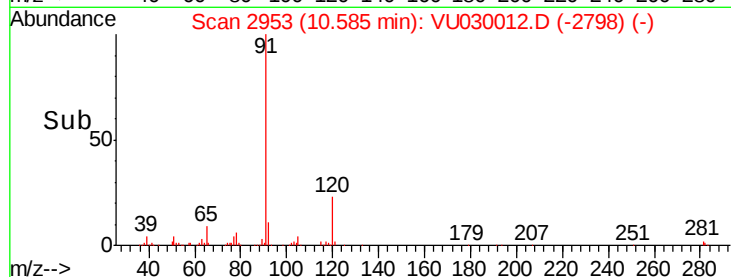
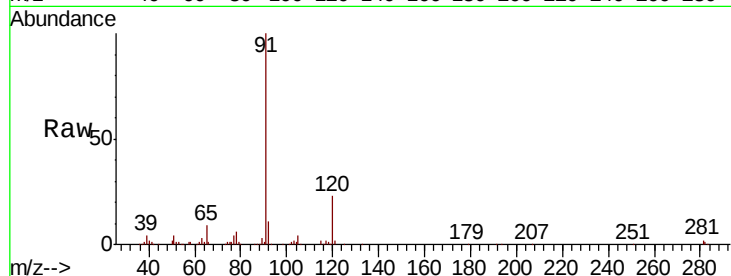


#73
n-propylbenzene
Concen: 1.925 ug/l
RT: 10.58 min Scan# 2953
Delta R.T. -0.00 min
Lab File: VU030012.D
Acq: 12 Mar 2019 17:40

Instrument :
MSVOA_U
ClientSampleId :
VU0314WBSD01

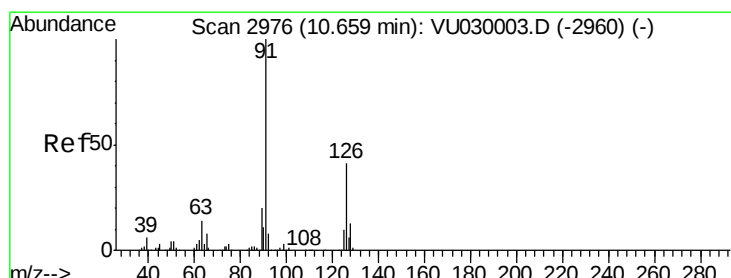
Tgt Ion:120 Resp: 41381
Ion Ratio Lower Upper
120 100
91 411.4 335.4 503.0

Manual Integrations
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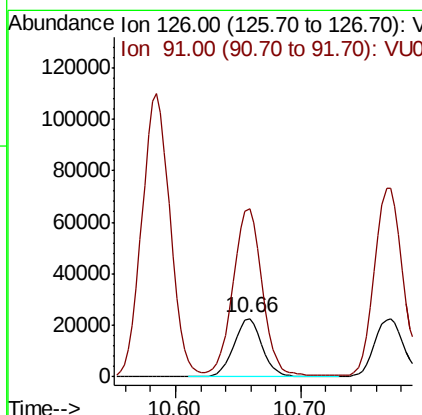
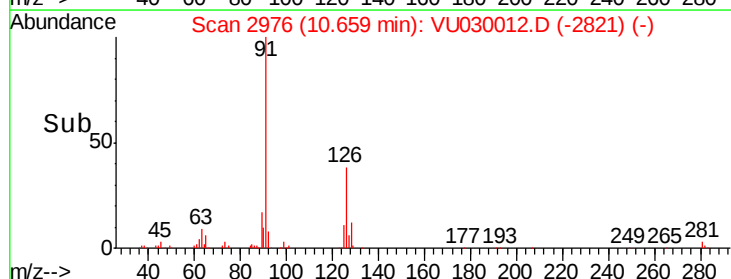
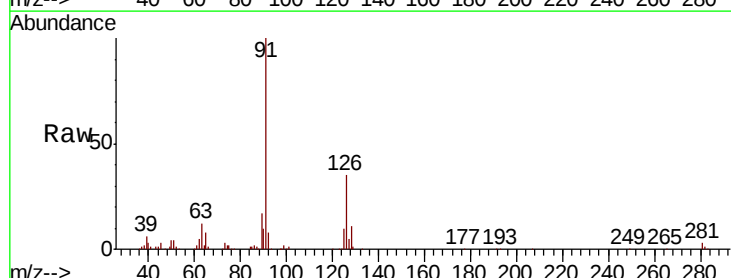
MMDadoda

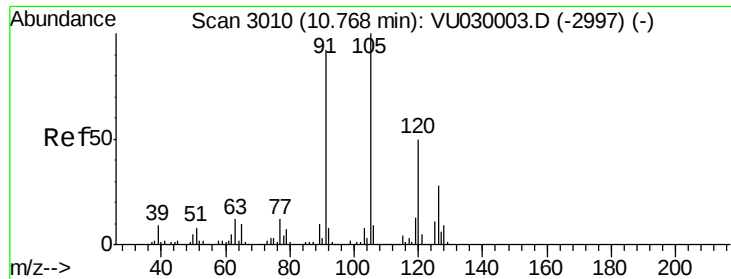
3/13/2019 12:56:33 PM



#74
2-Chlorotoluene
Concen: 1.902 ug/l
RT: 10.66 min Scan# 2976
Delta R.T. -0.00 min
Lab File: VU030012.D
Acq: 12 Mar 2019 17:40

Tgt Ion:126 Resp: 35806
Ion Ratio Lower Upper
126 100
91 293.8 0.0 561.0





#75

1,3,5-Trimethylbenzene

Concen: 1.933 ug/l

RT: 10.77 min Scan# 3010

Delta R.T. -0.00 min

Lab File: VU030012.D

Acq: 12 Mar 2019 17:40

Instrument :

MSVOA_U

ClientSampleId :

VU0314WBSD01

Tgt Ion:105 Resp: 124747

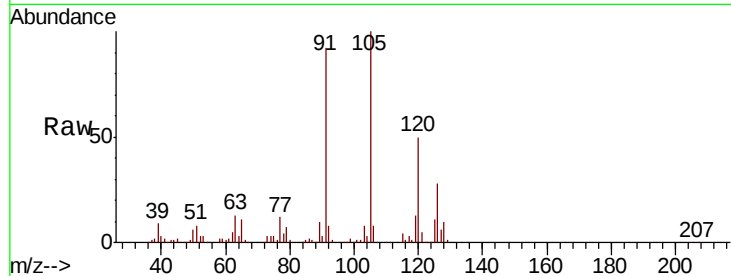
Ion Ratio Lower Upper

105 100

120 49.4 39.8 59.8

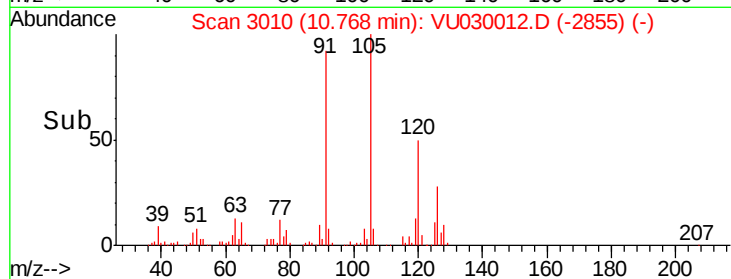
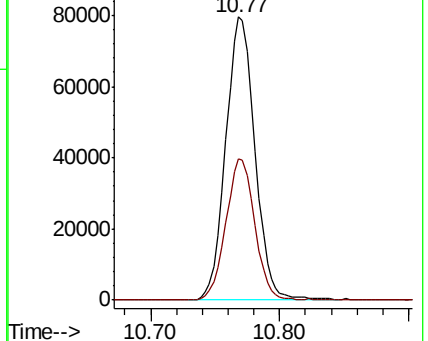
Manual Integrations

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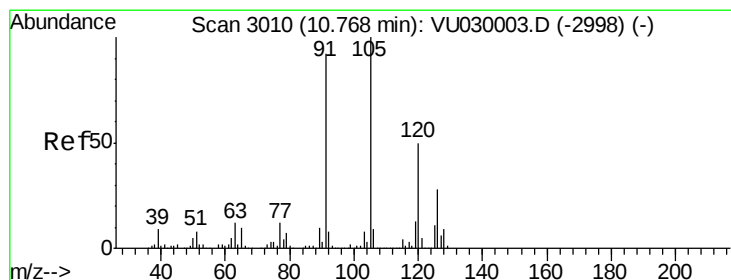
Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



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#76

4-Chlorotoluene

Concen: 1.905 ug/l

RT: 10.77 min Scan# 3011

Delta R.T. 0.00 min

Lab File: VU030012.D

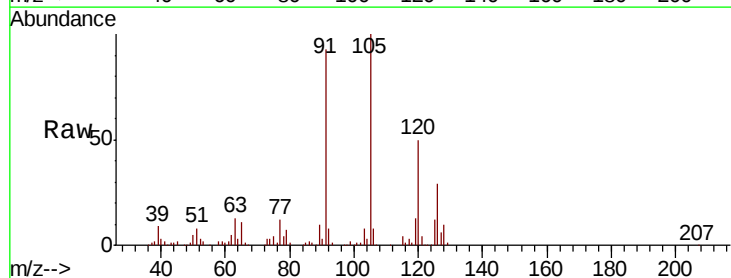
Acq: 12 Mar 2019 17:40

Tgt Ion:126 Resp: 36609

Ion Ratio Lower Upper

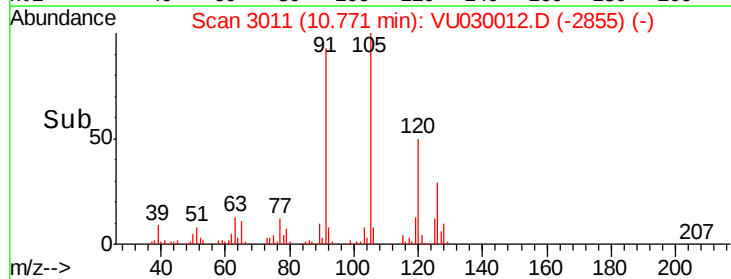
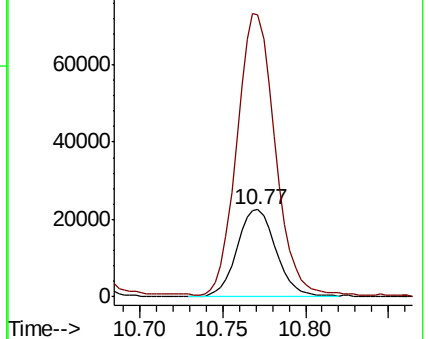
126 100

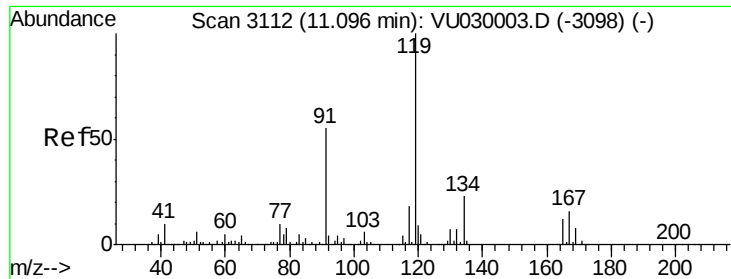
91 315.7 0.0 641.8



Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU0



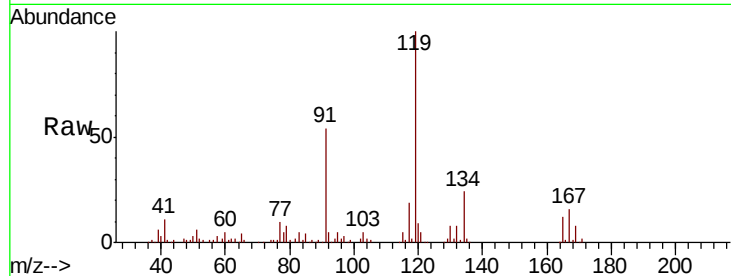


#77
 tert-Butylbenzene
 Concen: 1.926 ug/l
 RT: 11.10 min Scan# 3112
 Delta R.T. -0.00 min
 Lab File: VU030012.D
 Acq: 12 Mar 2019 17:40

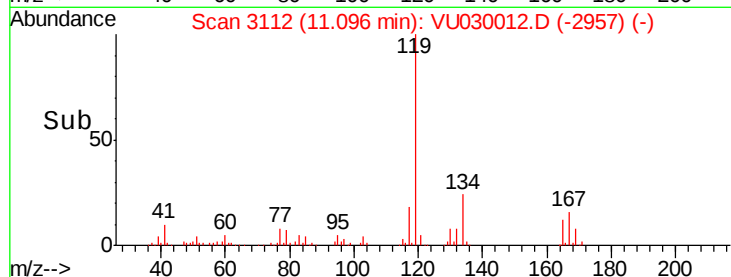
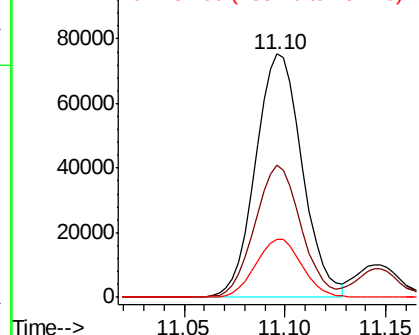
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0314WBSD01

Tgt Ion	Ratio	Lower	Upper
119	100		
91	53.7	27.6	82.8
134	23.9	18.7	28.1

Manual Integrations
 APPROVED

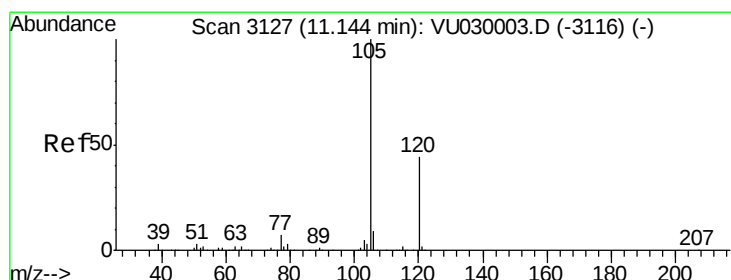


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): VU0
 Ion 134.00 (133.70 to 134.70): V



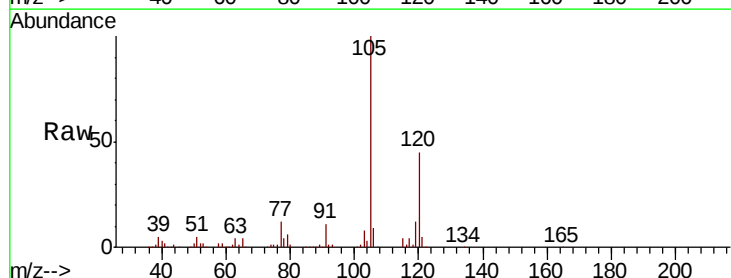
MMDadoda

3/13/2019 12:56:33 PM

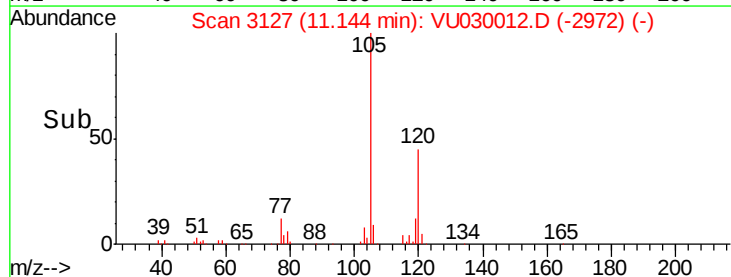
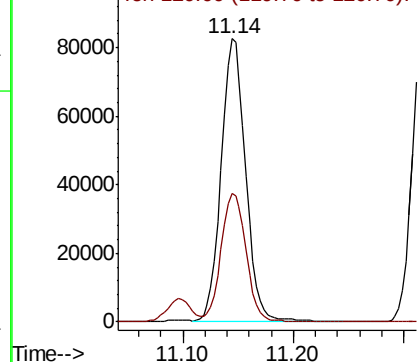


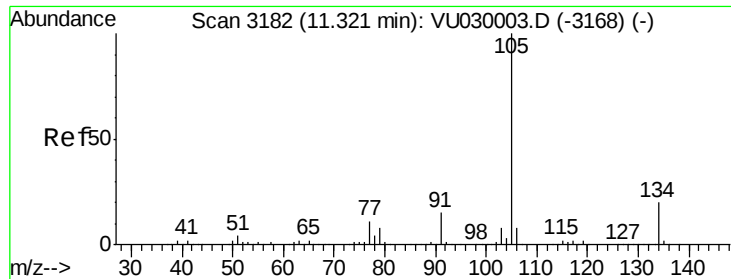
#78
 1,2,4-Trimethylbenzene
 Concen: 1.923 ug/l
 RT: 11.14 min Scan# 3127
 Delta R.T. -0.00 min
 Lab File: VU030012.D
 Acq: 12 Mar 2019 17:40

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.1	23.5	70.6



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





#79

sec-Butylbenzene

Concen: 1.953 ug/l

RT: 11.32 min Scan# 3182

Delta R.T. -0.00 min

Lab File: VU030012.D

Acq: 12 Mar 2019 17:40

Instrument :

MSVOA_U

ClientSampleId :

VU0314WBSD01

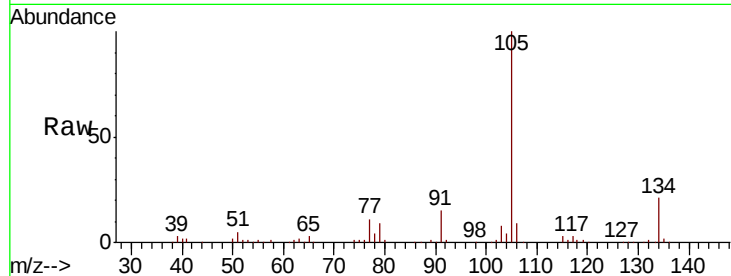
Tgt Ion: 105 Resp: 165324

Ion Ratio Lower Upper

105 100

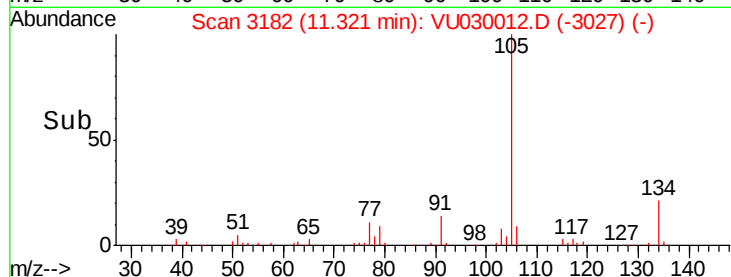
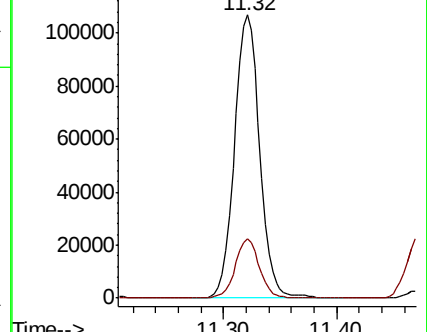
134 20.0 16.1 24.1

Manual Integrations
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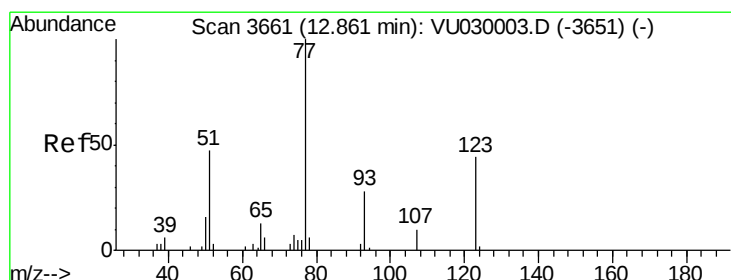
Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



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#80

Nitrobenzene

Concen: 7.058 ug/l

RT: 12.88 min Scan# 3666

Delta R.T. 0.02 min

Lab File: VU030012.D

Acq: 12 Mar 2019 17:40

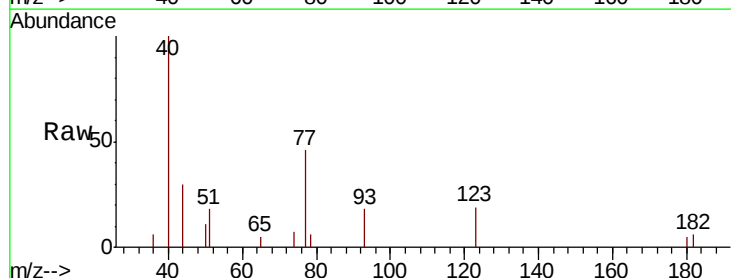
Tgt Ion: 77 Resp: 1924

Ion Ratio Lower Upper

77 100

123 42.8 19.9 70.5

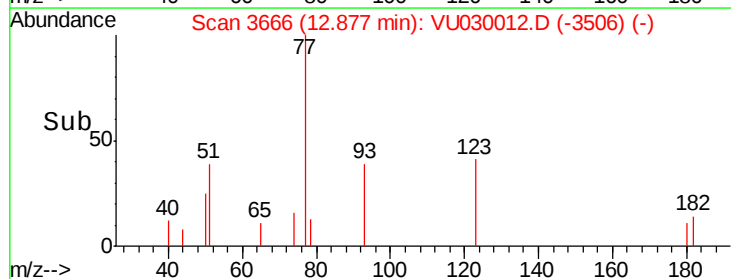
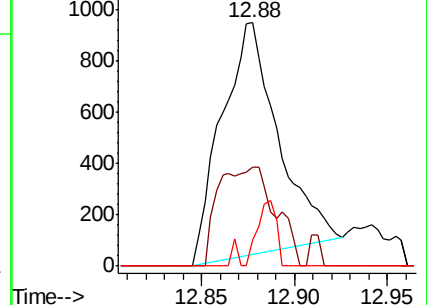
65 9.4 10.8 13.8#

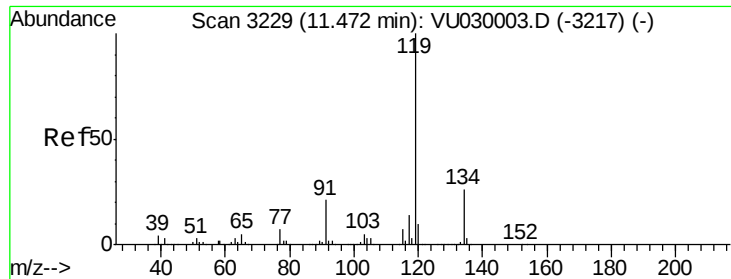


Abundance Ion 77.00 (76.70 to 77.70): VU0

Ion 123.00 (122.70 to 123.70): V

Ion 65.00 (64.70 to 65.70): VU0



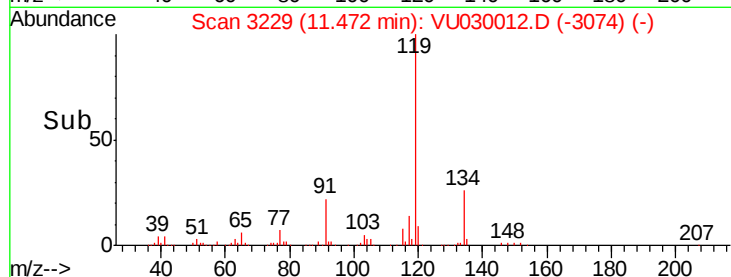
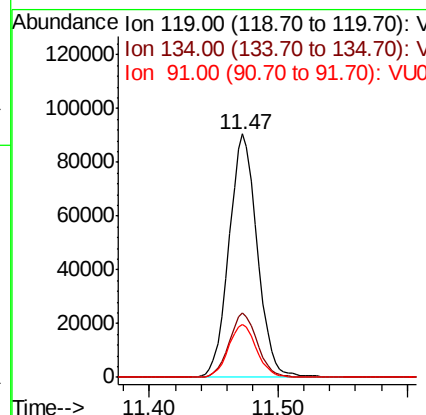
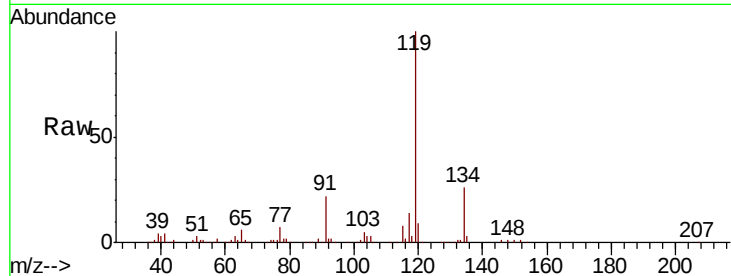


#81
p-Isopropyltoluene
Concen: 1.925 ug/l
RT: 11.47 min Scan# 3229
Delta R.T. -0.00 min
Lab File: VU030012.D
Acq: 12 Mar 2019 17:40

Instrument :
MSVOA_U
ClientSampleId :
VU0314WBSD01

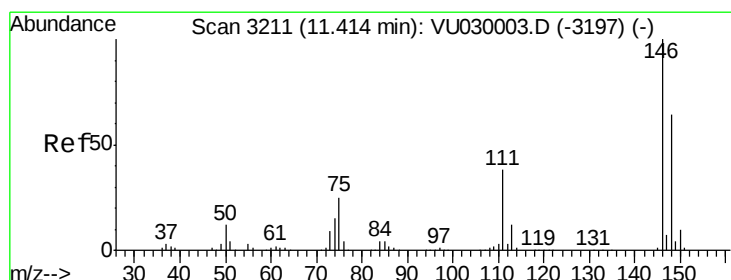
Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.5	21.2	31.8
91	21.9	17.0	25.6

Manual Integrations
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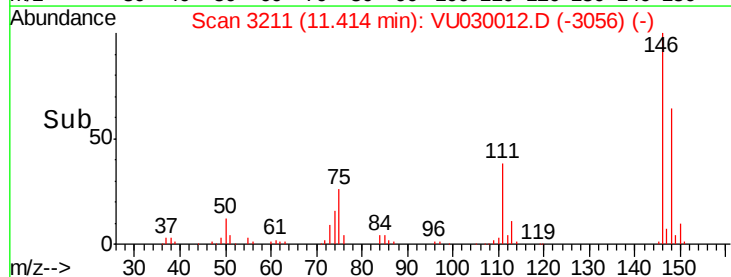
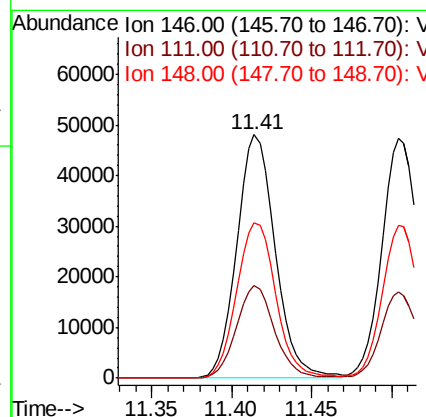
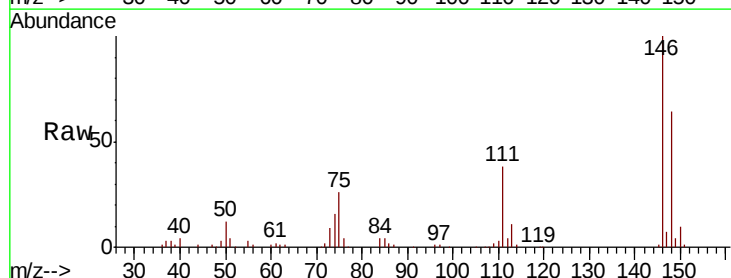
MMDadoda

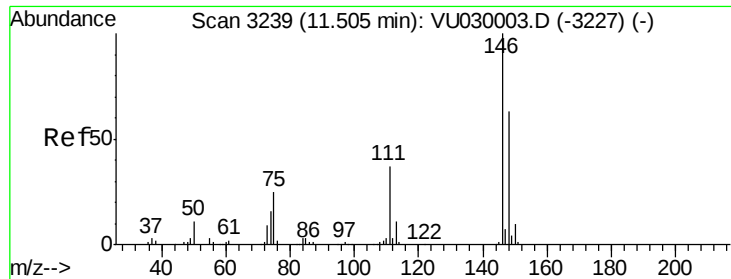
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#82
1,3-Dichlorobenzene
Concen: 1.961 ug/l
RT: 11.41 min Scan# 3211
Delta R.T. -0.00 min
Lab File: VU030012.D
Acq: 12 Mar 2019 17:40

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.8	30.3	45.5
148	65.1	51.1	76.7



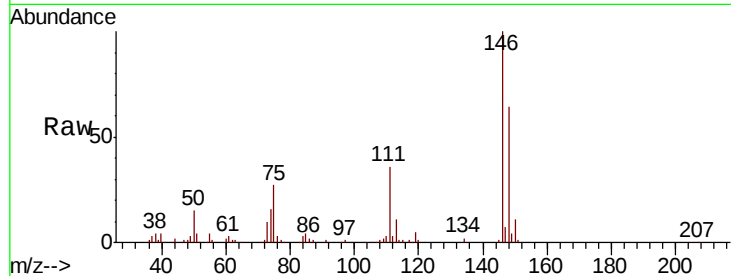


#83
 1,4-Dichlorobenzene
 Concen: 1.911 ug/l
 RT: 11.50 min Scan# 3239
 Delta R.T. -0.00 min
 Lab File: VU030012.D
 Acq: 12 Mar 2019 17:40

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0314WBSD01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	34.6	29.3	43.9
148	64.3	50.6	76.0

Manual Integrations
 APPROVED

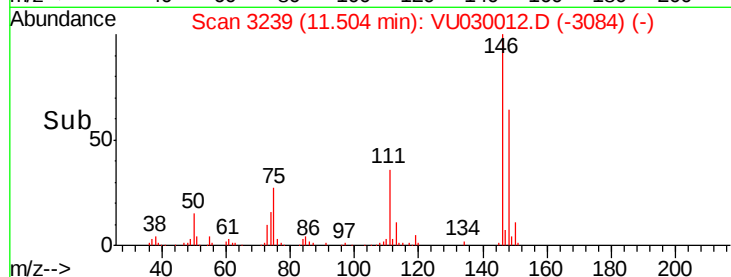
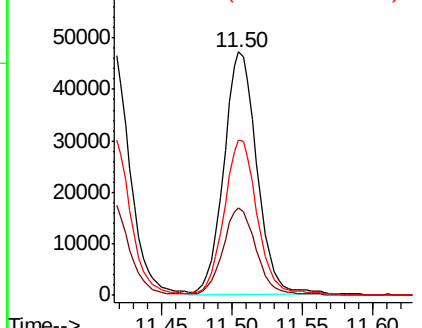


Abundance

Ion 146.00 (145.70 to 146.70): V

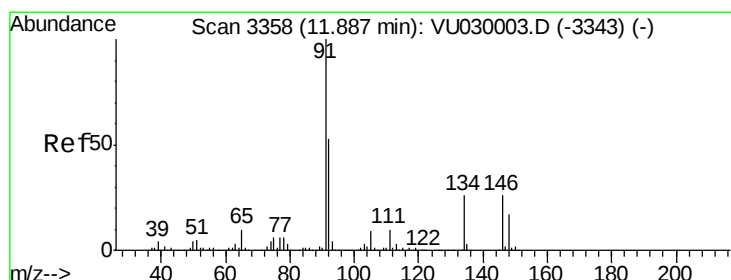
Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



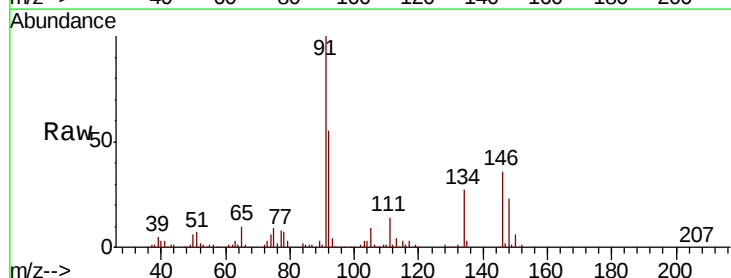
MMDadoda

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#84
 n-Butylbenzene
 Concen: 1.848 ug/l
 RT: 11.89 min Scan# 3358
 Delta R.T. -0.00 min
 Lab File: VU030012.D
 Acq: 12 Mar 2019 17:40

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.6	42.4	63.6
134	27.2	21.4	32.0

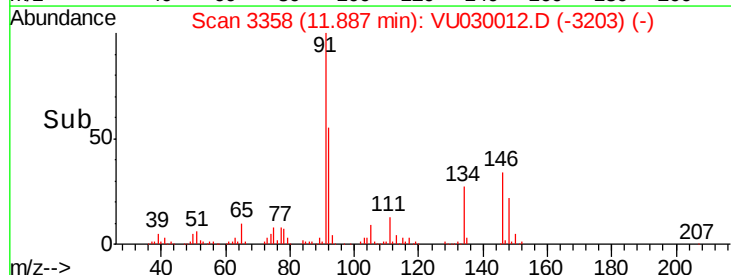
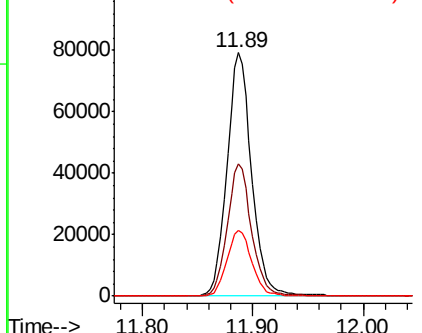


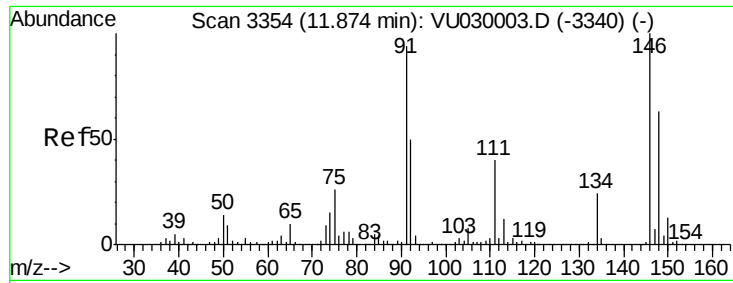
Abundance

Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0

Ion 134.00 (133.70 to 134.70): V



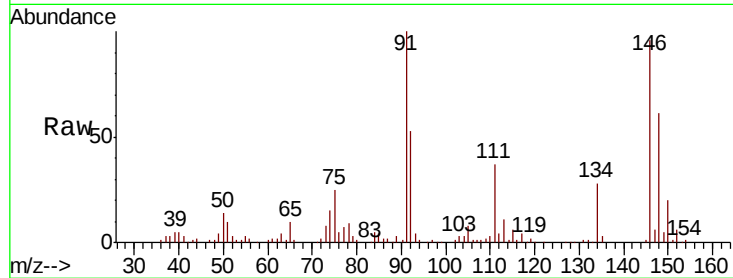


#85
 1,2-Dichlorobenzene
 Concen: 1.997 ug/l
 RT: 11.88 min Scan# 3355
 Delta R.T. 0.00 min
 Lab File: VU030012.D
 Acq: 12 Mar 2019 17:40

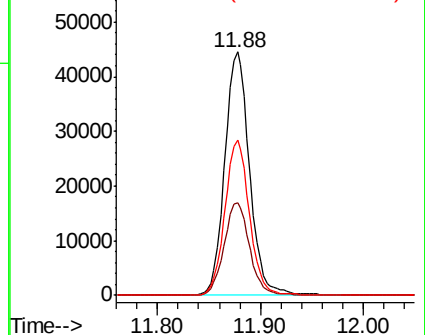
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0314WBSD01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.1	19.9	59.7
148	63.1	31.7	95.1

Manual Integrations
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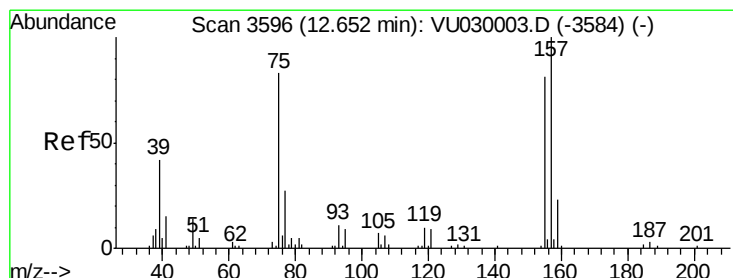
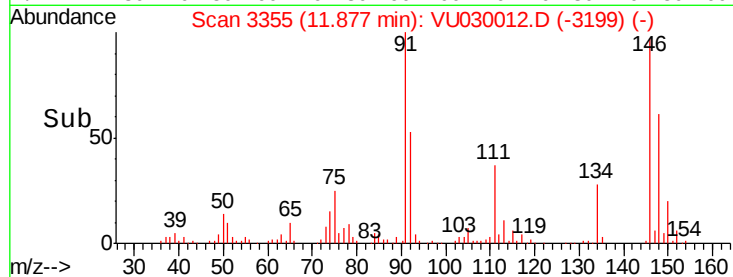


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V



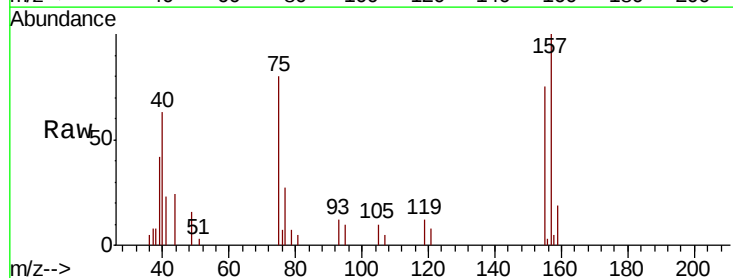
MMDadoda

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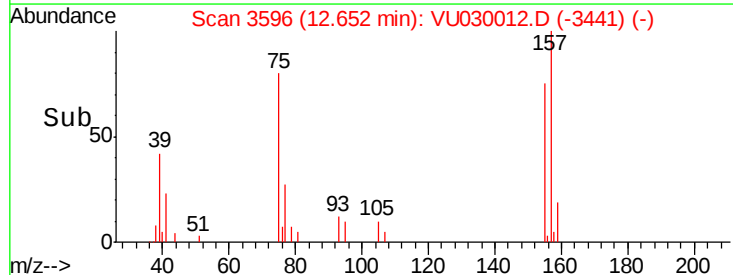
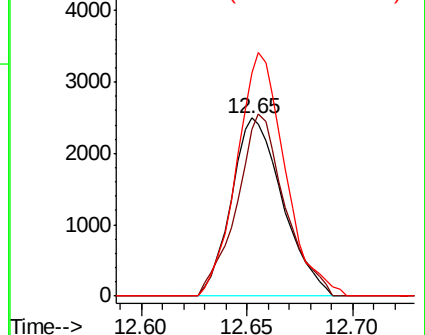


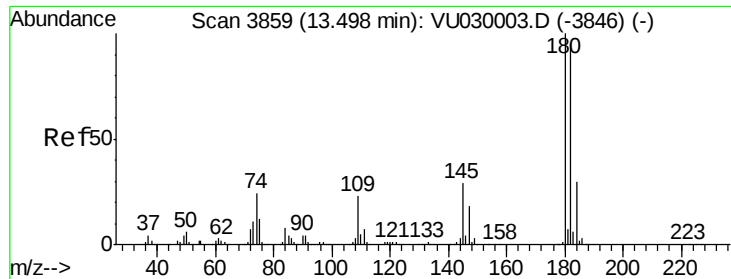
#86
 1,2-Dibromo-3-Chloropropane
 Concen: 1.915 ug/l
 RT: 12.65 min Scan# 3596
 Delta R.T. -0.00 min
 Lab File: VU030012.D
 Acq: 12 Mar 2019 17:40

Tgt Ion	Ratio	Lower	Upper
75	100		
155	96.2	78.2	117.4
157	128.7	97.2	145.8



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



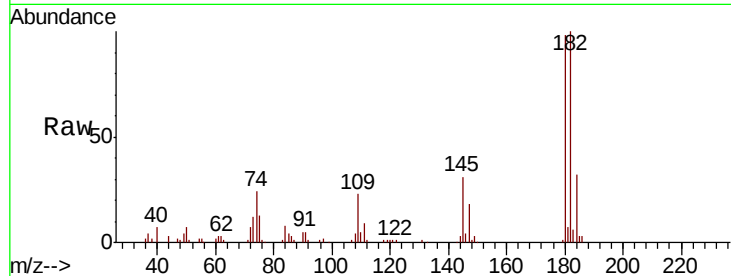


#87
1,2,4-Trichlorobenzene
Concen: 1.826 ug/l
RT: 13.50 min Scan# 3860
Delta R.T. 0.00 min
Lab File: VU030012.D
Acq: 12 Mar 2019 17:40

Instrument :
MSVOA_U
ClientSampleId :
VU0314WBSD01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	99.3	76.2	114.2
145	29.9	23.0	34.6

Manual Integrations
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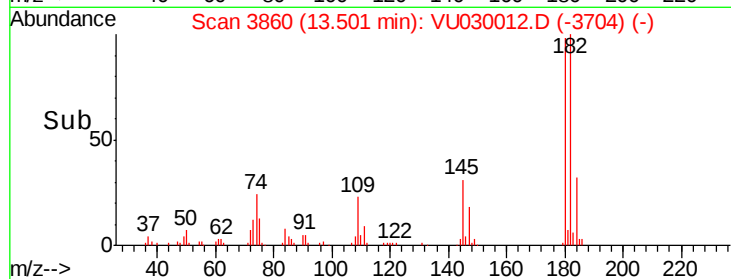
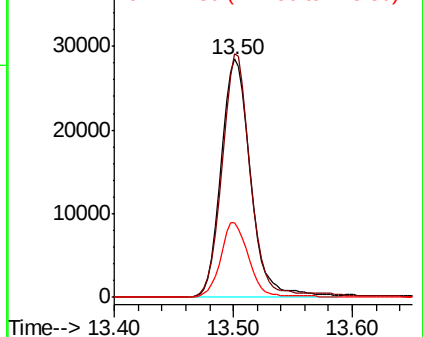


Abundance

Ion 179.70 (179.40 to 180.40): V

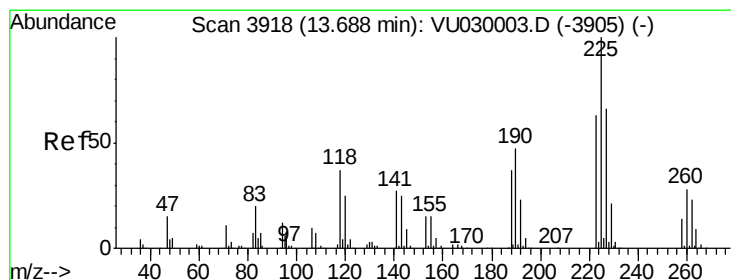
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



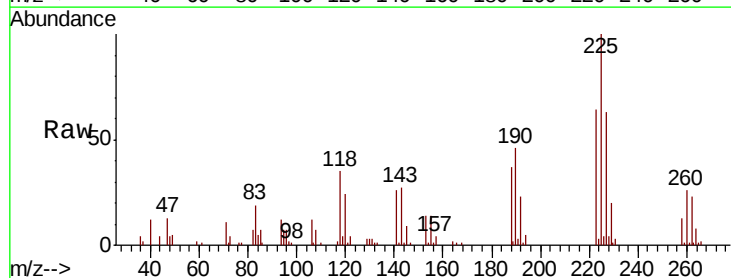
MMDadoda

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#88
Hexachlorobutadiene
Concen: 2.032 ug/l
RT: 13.69 min Scan# 3918
Delta R.T. -0.00 min
Lab File: VU030012.D
Acq: 12 Mar 2019 17:40

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.3	50.7	76.1
227	64.4	52.6	78.8

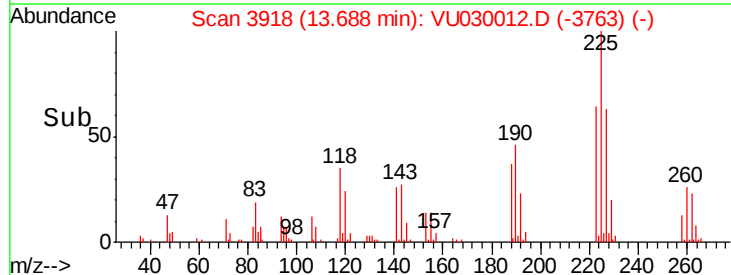
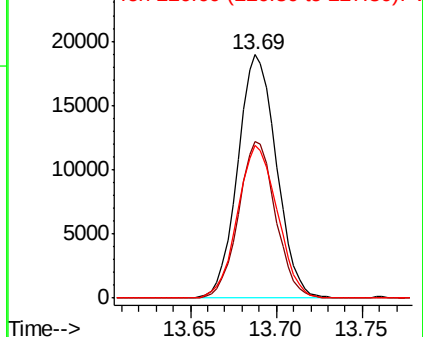


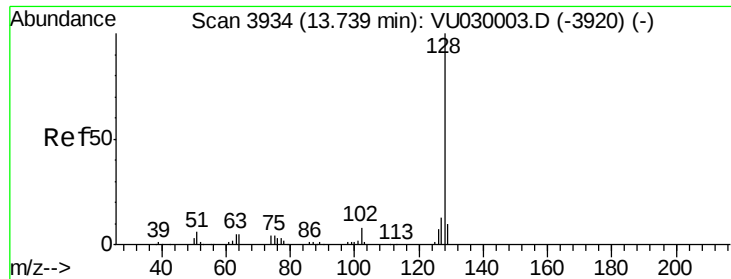
Abundance

Ion 224.60 (224.30 to 225.30): V

Ion 222.60 (222.30 to 223.30): V

Ion 226.60 (226.30 to 227.30): V



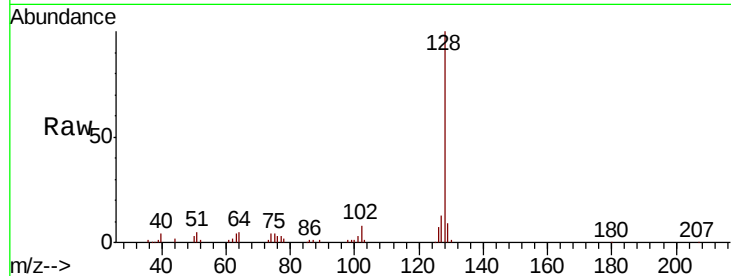


#89
Naphthalene
Concen: 1.835 ug/l
RT: 13.74 min Scan# 3935
Delta R.T. 0.00 min
Lab File: VU030012.D
Acq: 12 Mar 2019 17:40

Instrument :
MSVOA_U
ClientSampleId :
VU0314WBSD01

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.1	15.1
129	9.1	8.5	12.7

Manual Integrations
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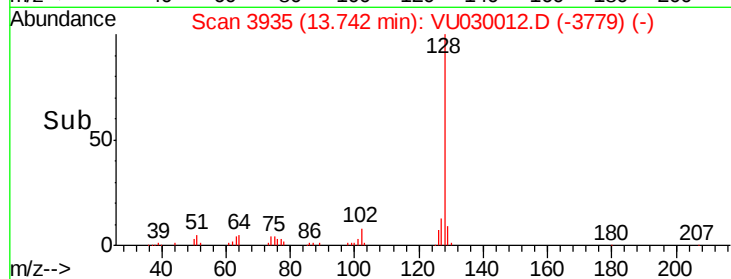
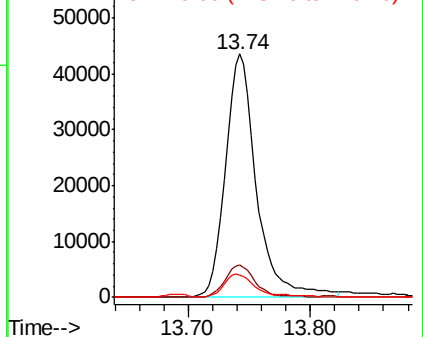


Abundance

Ion 128.00 (127.70 to 128.70): V

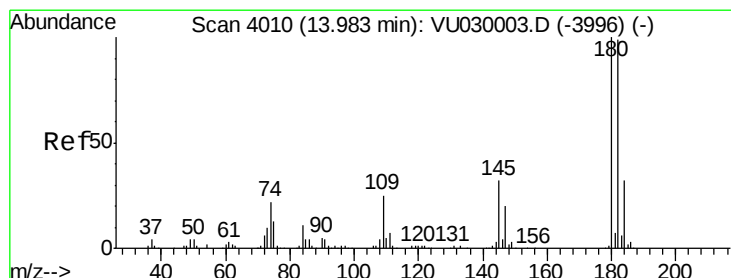
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



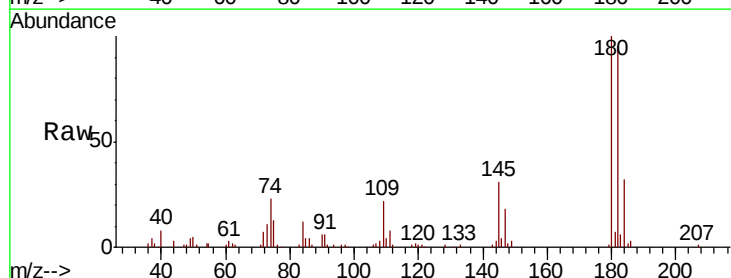
MMDadoda

3/13/2019 12:56:33 PM



#90
1,2,3-Trichlorobenzene
Concen: 1.884 ug/l
RT: 13.98 min Scan# 4010
Delta R.T. -0.00 min
Lab File: VU030012.D
Acq: 12 Mar 2019 17:40

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.5	77.6	116.4
145	30.9	24.7	37.1



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

