

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081919\
 Data File : VU033839.D
 Acq On : 19 Aug 2019 11:34
 Operator : JC/SP
 Sample : MDL07
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Manual Integrations
 APPROVED

MMDadoda
 8/20/2019 8:39:05 AM

Quant Time: Aug 19 16:04:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMUTR081419WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Aug 17 01:44:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	166003	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	174652	5.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.47	152	80458	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	96735	5.15	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	103.00%
7) Chloroethane-d5	1.67	69	79720	5.43	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	108.60%
11) 1,1-Dichloroethene-d2	2.26	65	45873	5.31	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	106.20%
20) 2-Butanone-d5	4.19	46	192933	53.14	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	106.28%
24) Chloroform-d	4.62	84	145454	5.19	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	103.80%
26) 1,2-Dichloroethane-d4	5.29	65	78746	5.37	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	107.40%
32) Benzene-d6	5.32	84	283555	5.28	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	105.60%
36) 1,2-Dichloropropane-d6	6.31	67	90886	5.34	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	106.80%
41) Toluene-d8	7.55	98	234852	4.76	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.20%
43) trans-1,3-Dichloropropene-	7.84	79	32351	4.80	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	96.00%
46) 2-Hexanone-d5	8.30	63	127673	47.58	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	95.16%
56) 1,1,2,2-Tetrachloroethane-	10.41	84	72781	4.95	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.00%
66) 1,2-Dichlorobenzene-d4	11.85	152	91810	5.63	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	112.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.20	85	5934	0.247	ug/L	93
3) Chloromethane	1.32	50	6820	0.273	ug/L	98
5) Vinyl chloride	1.39	62	6728	0.247	ug/L #	67
6) Bromomethane	1.62	94	4226	0.267	ug/L	90
8) Chloroethane	1.69	64	4187	0.260	ug/L	94
9) Trichlorofluoromethane	1.87	101	8966	0.240	ug/L	95
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	6320	0.319	ug/L #	85
12) 1,1-Dichloroethene	2.27	96	5767	0.301	ug/L #	1
13) Acetone	2.34	43	11039	2.853	ug/L	90
14) Carbon disulfide	2.46	76	16175	0.249	ug/L #	94
15) Methyl Acetate	2.61	43	2236	0.222	ug/L	93
16) Methylene chloride	2.68	84	7888	0.353	ug/L	90
17) Methyl tert-butyl Ether	2.98	73	11898	0.240	ug/L	97
18) trans-1,2-Dichloroethene	2.96	96	5662	0.276	ug/L	95
19) 1,1-Dichloroethane	3.42	63	7625	0.237	ug/L	94
21) 2-Butanone	4.29	43	9782	2.042	ug/L	89
22) cis-1,2-Dichloroethene	4.20	96	4163	0.238	ug/L	87

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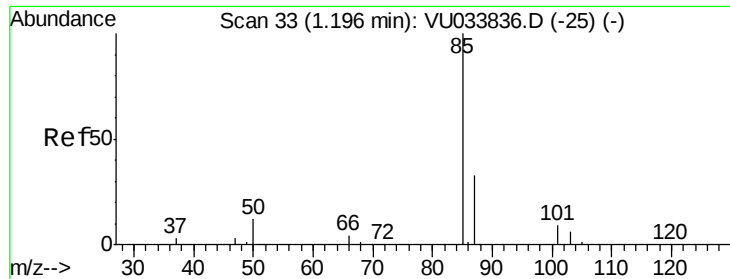
MMDadoda
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.52	128	1882	0.224	ug/L #	88
25) Chloroform	4.65	83	12800	0.370	ug/L	93
27) 1,2-Dichloroethane	5.39	62	5405	0.254	ug/L #	94
29) 1,1,1-Trichloroethane	4.88	97	6991	0.246	ug/L	98
30) Cyclohexane	4.96	56	4860	0.189	ug/L	96
31) Carbon tetrachloride	5.11	117	6086	0.241	ug/L	97
33) Benzene	5.37	78	16112	0.231	ug/L	100
34) Trichloroethene	6.17	95	4459	0.243	ug/L	96
35) Methylcyclohexane	6.39	83	5730	0.209	ug/L	98
37) 1,2-Dichloropropane	6.41	63	4411	0.234	ug/L #	94
38) Bromodichloromethane	6.74	83	5432	0.228	ug/L	98
39) cis-1,3-Dichloropropene	7.25	75	5213	0.205	ug/L	92
40) 4-Methyl-2-pentanone	7.45	43	20310	1.862	ug/L #	90
42) Toluene	7.62	91	16583	0.226	ug/L	93
44) trans-1,3-Dichloropropene	7.87	75	4836	0.227	ug/L	89
45) 1,1,2-Trichloroethane	8.05	97	3287	0.244	ug/L	98
47) Tetrachloroethene	8.21	164	3737	0.245	ug/L	89
48) 2-Hexanone	8.35	43	27356	3.468	ug/L	94
49) Dibromochloromethane	8.46	129	3931	0.240	ug/L	93
50) 1,2-Dibromoethane	8.58	107	3354	0.257	ug/L #	83
51) Chlorobenzene	9.10	112	10870	0.230	ug/L	99
52) Ethylbenzene	9.23	91	15361	0.202	ug/L	100
53) m,p-Xylene	9.36	106	5432	0.190	ug/L	85
54) o-Xylene	9.76	106	4984	0.183	ug/L	98
55) Styrene	9.78	104	7662	0.162	ug/L	91
57) 1,1,2,2-Tetrachloroethane	10.44	83	4327	0.244	ug/L #	82
59) Isopropylbenzene	10.15	105	12849	0.209	ug/L	98
60) Bromoform	9.94	173	1958	0.238	ug/L #	84
61) 1,2,3-Trichloropropane	10.48	75	3105	0.291	ug/L #	92
62) 1,3,5-Trimethylbenzene	10.76	105	9483	0.191	ug/L	99
63) 1,2,4-Trimethylbenzene	11.13	105	9285	0.187	ug/L	97
64) 1,3-Dichlorobenzene	11.40	146	7289	0.222	ug/L	92
65) 1,4-Dichlorobenzene	11.49	146	8325	0.247	ug/L	93
67) 1,2-Dichlorobenzene	11.86	146	8780	0.277	ug/L	99
69) 1,3,5-Trichlorobenzene	12.88	180	5914	0.229	ug/L	95
70) 1,2,4-trichlorobenzene	13.49	180	4115	0.205	ug/L	85
71) Naphthalene	13.74	128	5250m	0.170	ug/L	
72) 1,2,3-Trichlorobenzene	13.99	180	3326	0.176	ug/L	97

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



#2

Dichlorodifluoromethane

Concen: 0.247 ug/L

RT: 1.20 min Scan# 33

Delta R.T. -0.00 min

Lab File: VU033839.D

Acq: 19 Aug 2019 11:34

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion: 85 Resp: 5934

Ion Ratio Lower Upper

85 100

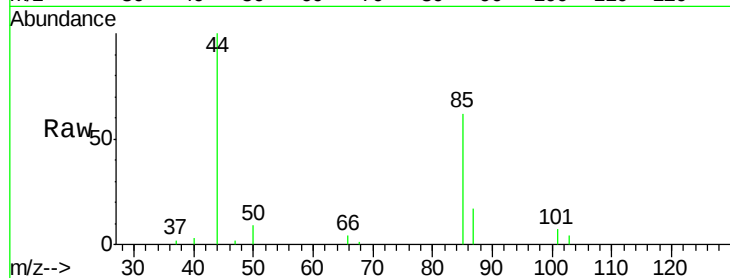
87 28.3 25.6 38.4

Manual Integrations

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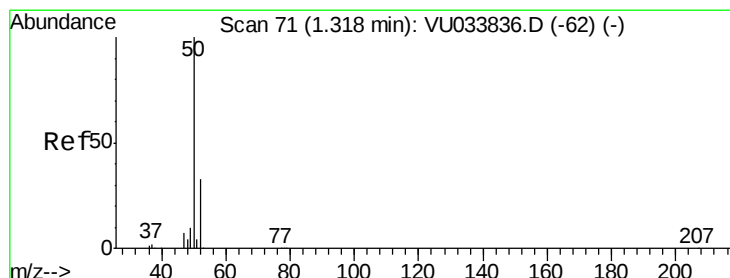
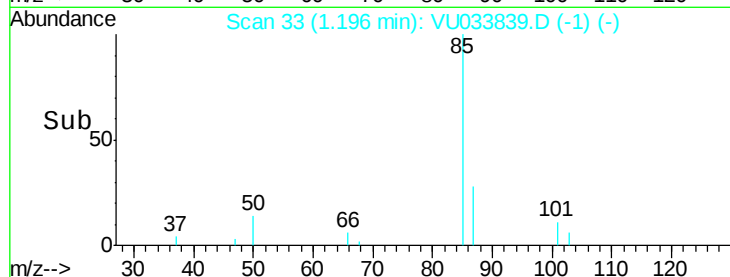
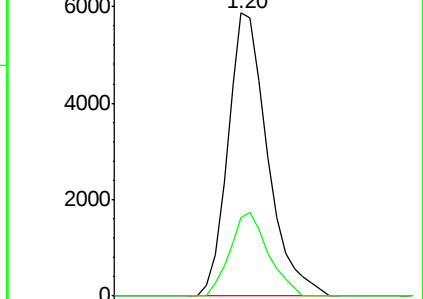
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Abundance Ion 85.00 (84.70 to 85.70): VU033839.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU033839.D (-1) (-)



#3

Chloromethane

Concen: 0.273 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU033839.D

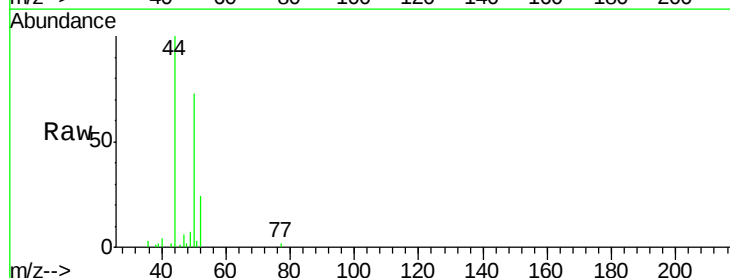
Acq: 19 Aug 2019 11:34

Tgt Ion: 50 Resp: 6820

Ion Ratio Lower Upper

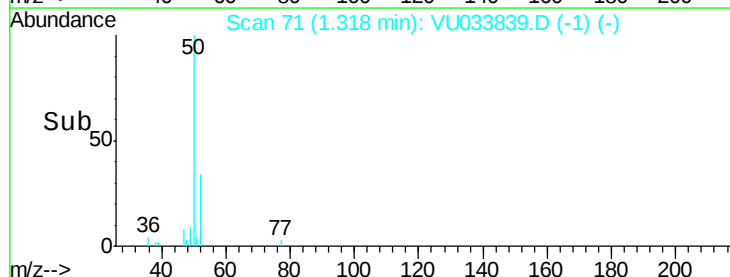
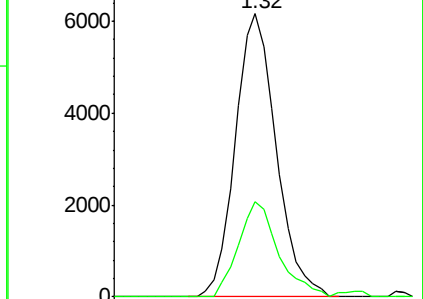
50 100

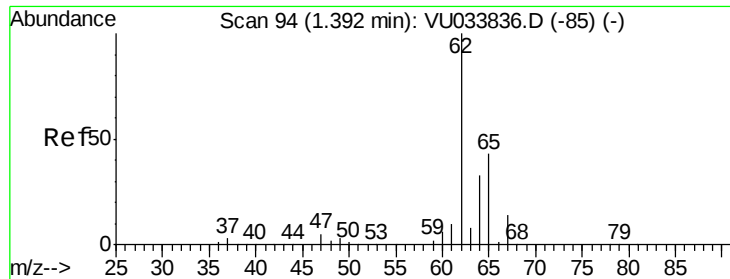
52 33.6 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VU033839.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU033839.D (-1) (-)





#5

Vinyl chloride

Concen: 0.247 ug/L

RT: 1.39 min Scan# 94

Delta R.T. -0.00 min

Lab File: VU033839.D

Acq: 19 Aug 2019 11:34

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion: 62 Resp: 6728

Ion Ratio Lower Upper

62 100

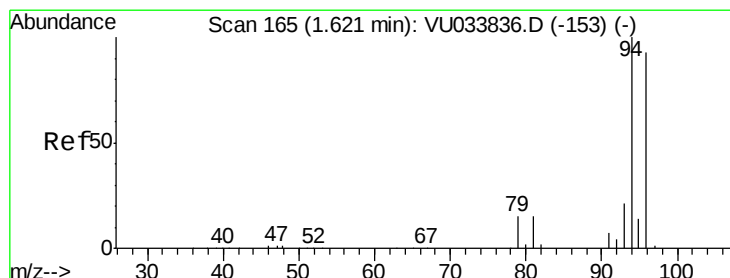
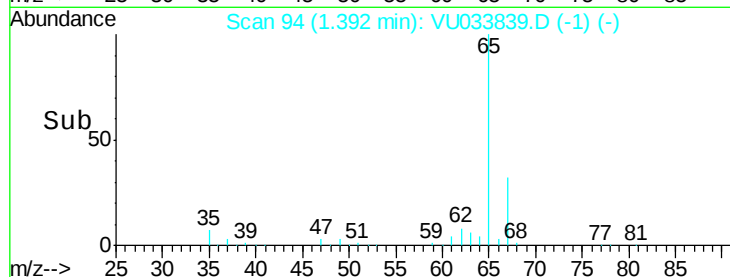
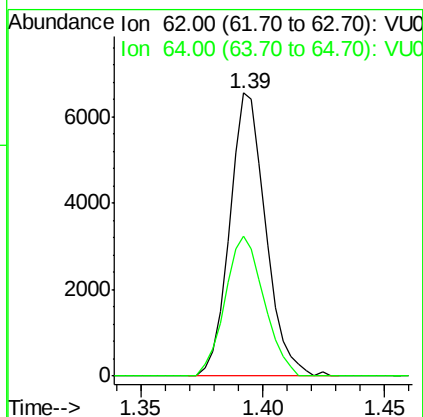
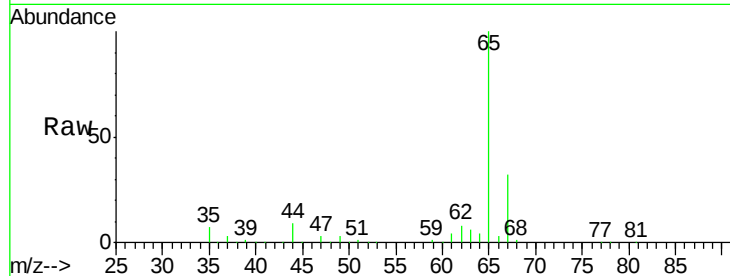
64 49.4 21.9 40.7#

Manual Integrations

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#6

Bromomethane

Concen: 0.267 ug/L

RT: 1.62 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU033839.D

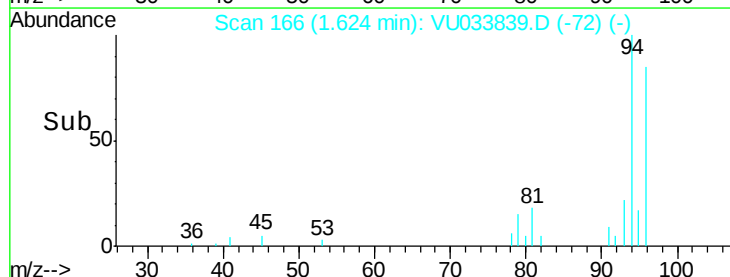
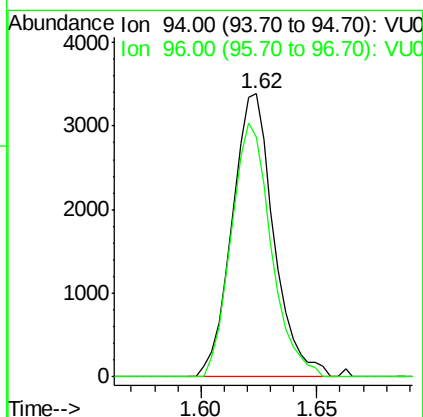
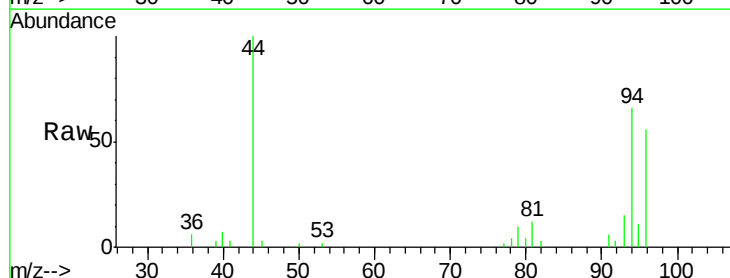
Acq: 19 Aug 2019 11:34

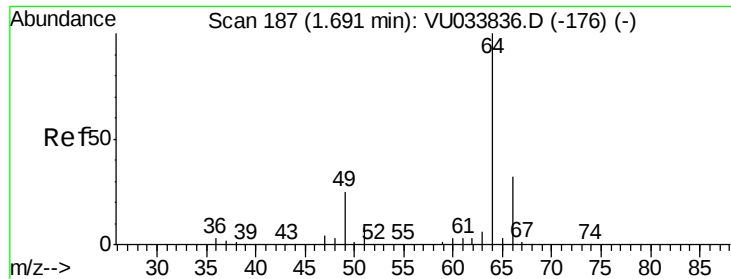
Tgt Ion: 94 Resp: 4226

Ion Ratio Lower Upper

94 100

96 84.7 66.4 123.2





#8

Chloroethane

Concen: 0.260 ug/L

RT: 1.69 min Scan# 187

Delta R.T. -0.00 min

Lab File: VU033839.D

Acq: 19 Aug 2019 11:34

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion: 64 Resp: 4187

Ion Ratio Lower Upper

64 100

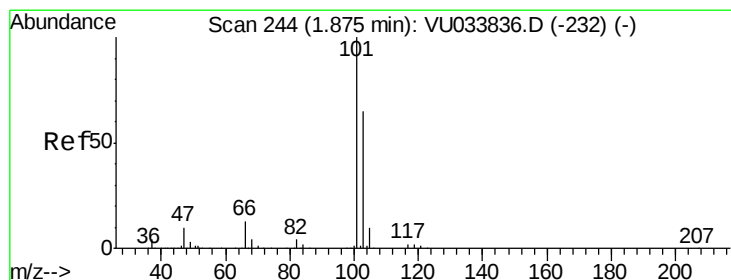
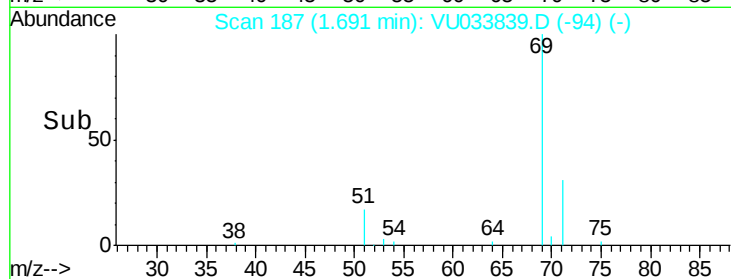
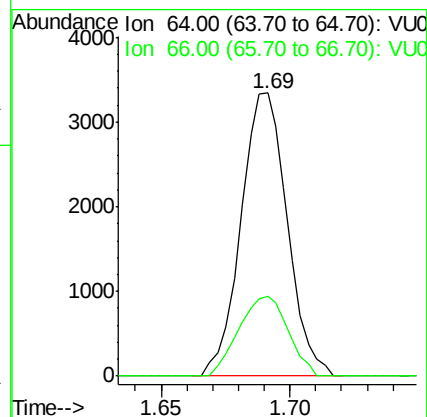
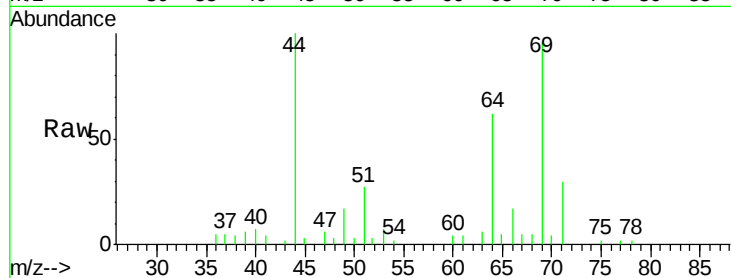
66 28.2 21.9 40.7

Manual Integrations

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#9

Trichlorofluoromethane

Concen: 0.240 ug/L

RT: 1.87 min Scan# 244

Delta R.T. -0.00 min

Lab File: VU033839.D

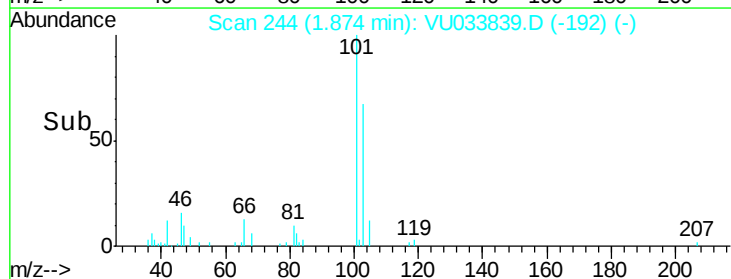
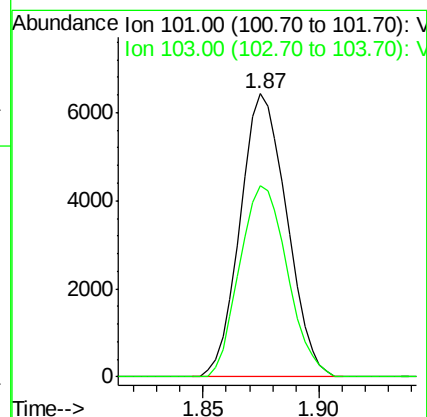
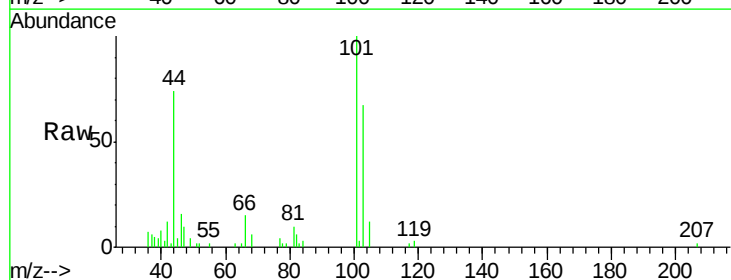
Acq: 19 Aug 2019 11:34

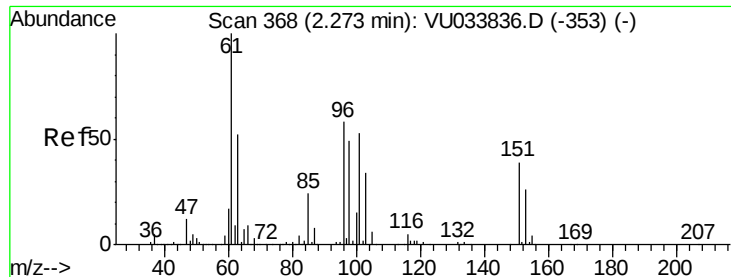
Tgt Ion: 101 Resp: 8966

Ion Ratio Lower Upper

101 100

103 69.1 52.3 78.5





#10

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

Concen: 0.319 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU033839.D

Acq: 19 Aug 2019 11:34

Instrument :

MSVOA_U

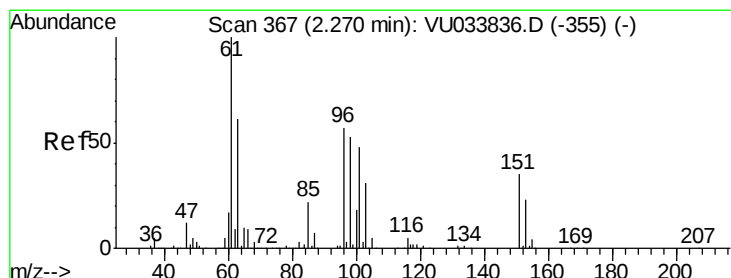
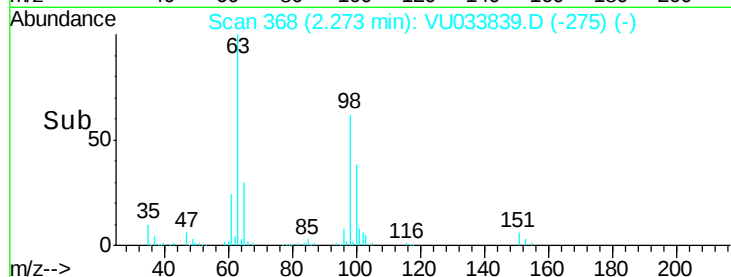
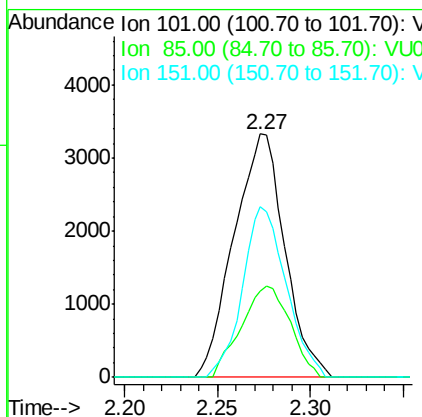
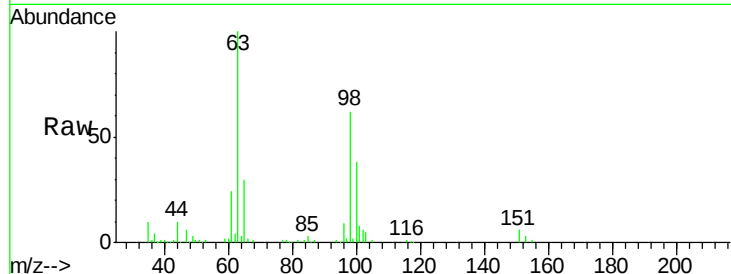
ClientSampleId :

MDL07

Tot Ion:	101	Resp:	6320
Ion Ratio	Lower	Upper	
101	100		
85	36.1	36.2	54.2#
151	60.3	58.7	88.1

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 0.301 ug/L

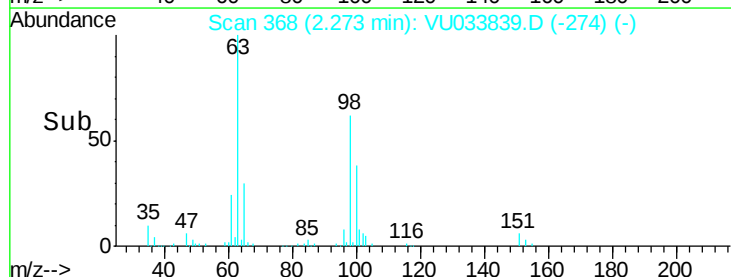
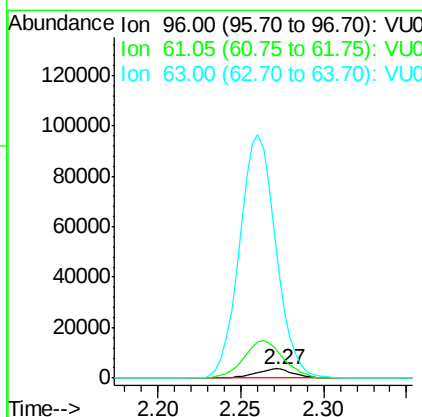
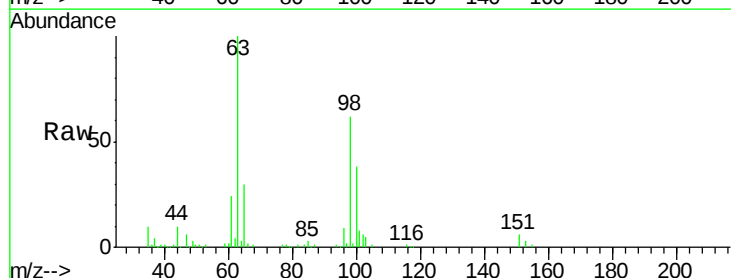
RT: 2.27 min Scan# 368

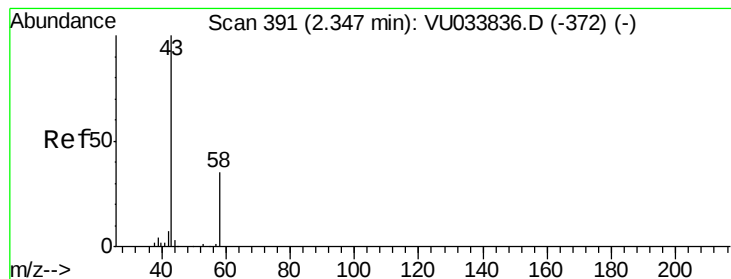
Delta R.T. 0.00 min

Lab File: VU033839.D

Acq: 19 Aug 2019 11:34

Tgt Ion:	96	Resp:	5767
Ion Ratio	Lower	Upper	
96	100		
61	278.9	123.8	230.0#
63	1172.1	78.0	144.9#





#13

Acetone

Concen: 2.853 ug/L

RT: 2.34 min Scan# 389

Delta R.T. -0.01 min

Lab File: VU033839.D

Acq: 19 Aug 2019 11:34

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion: 43 Resp: 11039

Ion Ratio Lower Upper

43 100

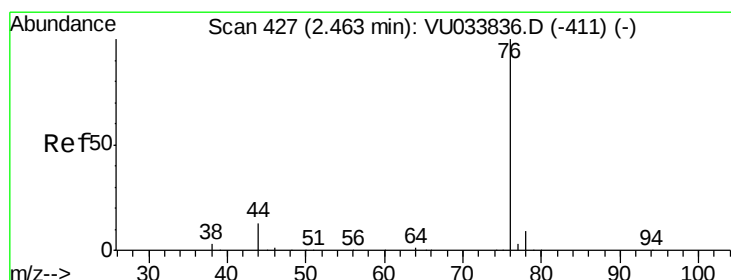
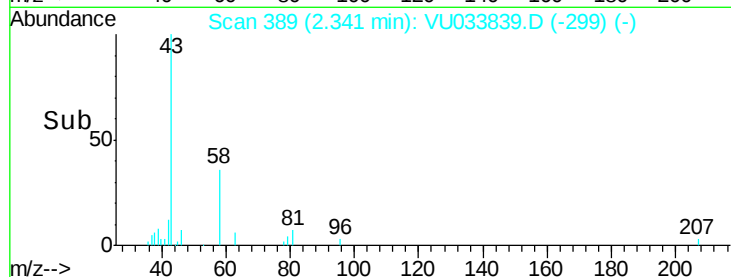
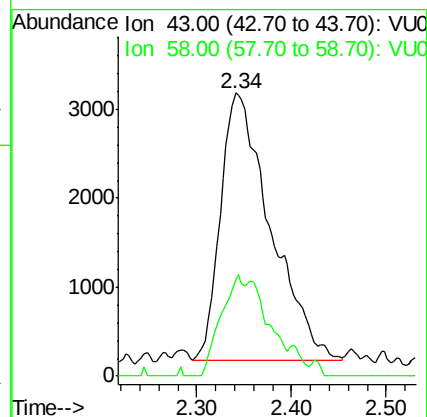
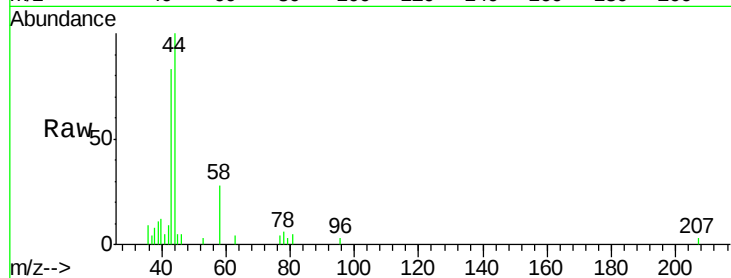
58 17.7 0.0 27.0

Manual Integrations

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#14

Carbon disulfide

Concen: 0.249 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU033839.D

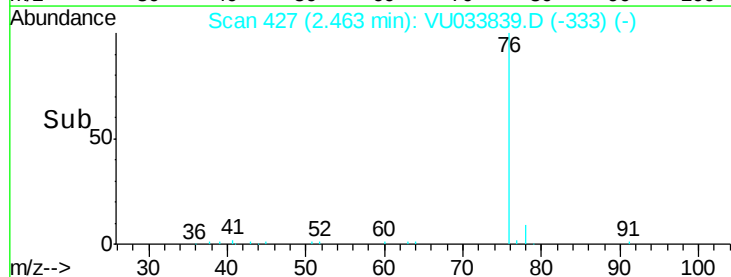
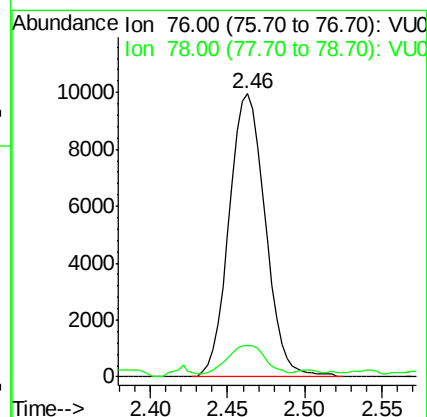
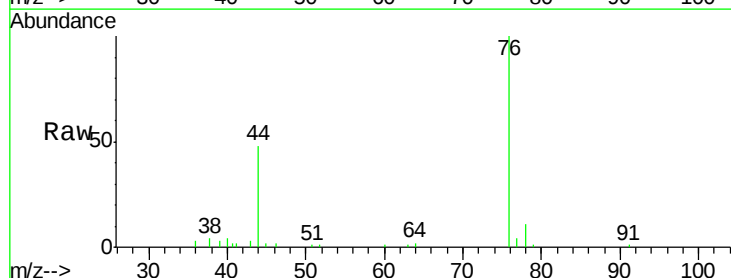
Acq: 19 Aug 2019 11:34

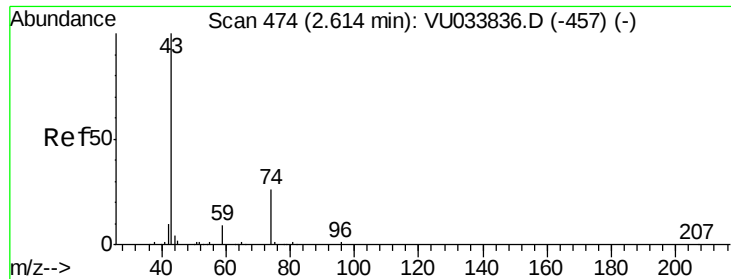
Tgt Ion: 76 Resp: 16175

Ion Ratio Lower Upper

76 100

78 11.1 7.2 10.8#





#15

Methyl Acetate

Concen: 0.222 ug/L

RT: 2.61 min Scan# 473

Delta R.T. -0.01 min

Lab File: VU033839.D

Acq: 19 Aug 2019 11:34

Instrument :

MSVOA_U

ClientSampled :

MDL07

Tot Ion: 43 Resp: 2236

Ion Ratio Lower Upper

43 100

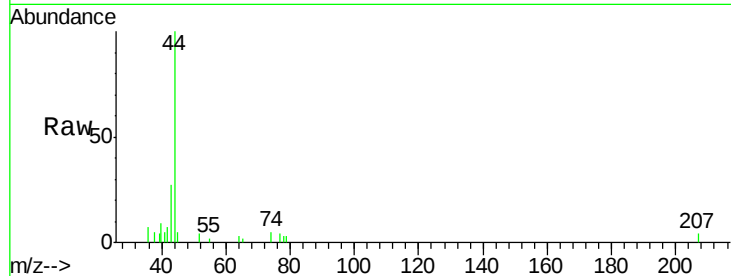
74 27.1 18.8 28.2

Manual Integrations

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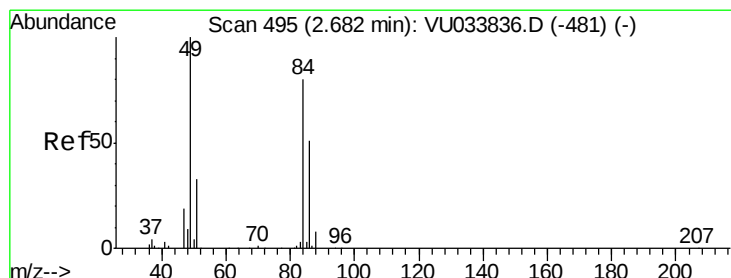
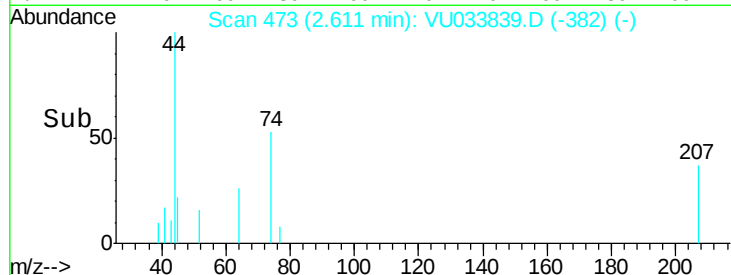
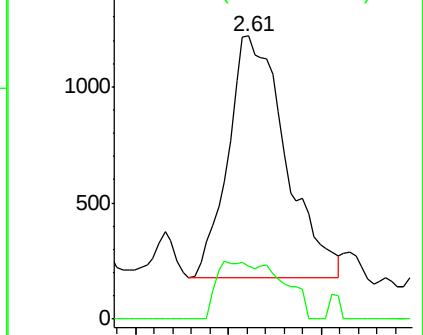
MMDadoda

8/20/2019 8:39:05 AM



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0



#16

Methylene chloride

Concen: 0.353 ug/L

RT: 2.68 min Scan# 495

Delta R.T. -0.00 min

Lab File: VU033839.D

Acq: 19 Aug 2019 11:34

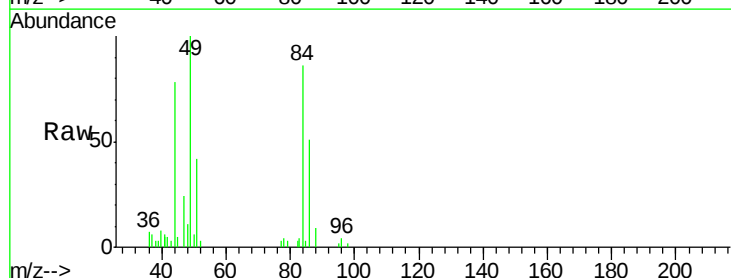
Tgt Ion: 84 Resp: 7888

Ion Ratio Lower Upper

84 100

86 59.1 46.0 85.4

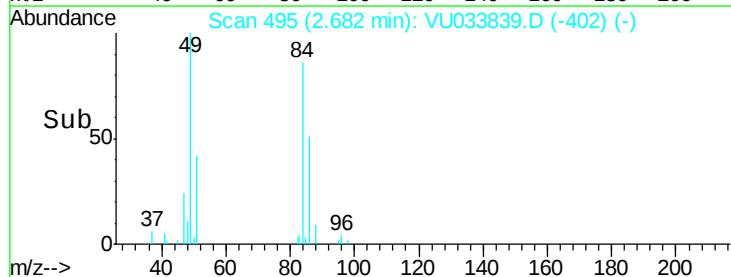
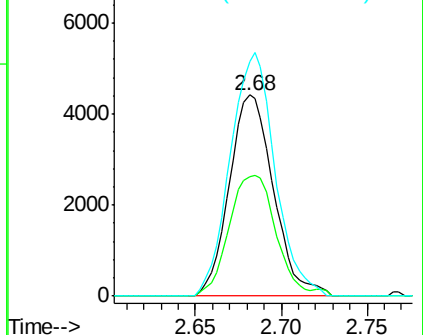
49 116.8 90.4 168.0

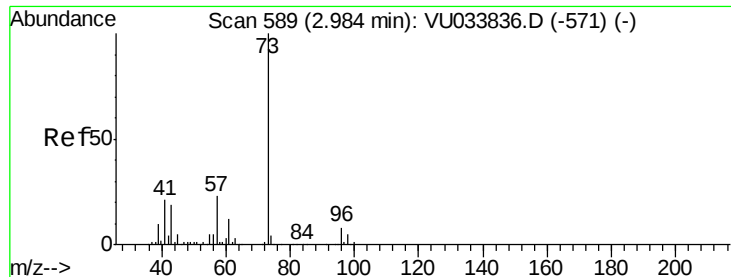


Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0





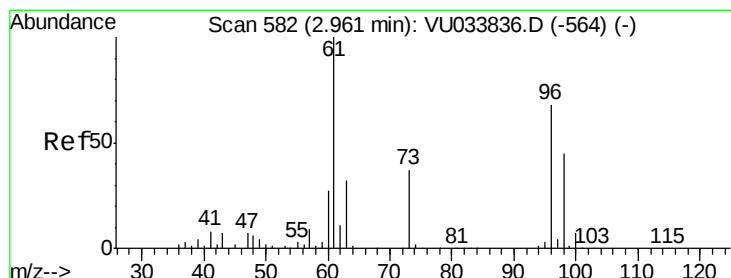
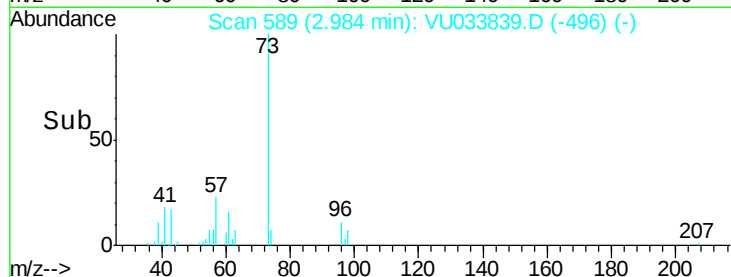
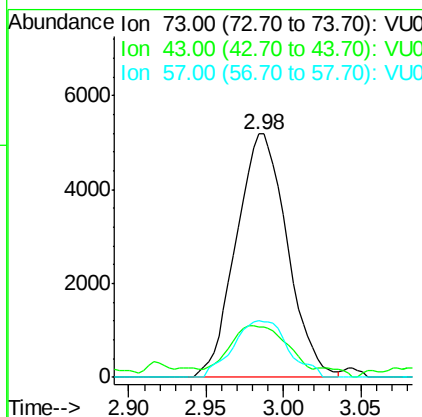
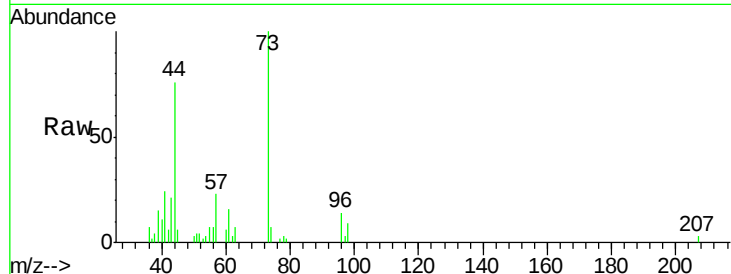
#17
Methvl tert-butvl Ether
Concen: 0.240 ug/L
RT: 2.98 min Scan# 589
Delta R.T. -0.00 min
Lab File: VU033839.D
Acq: 19 Aug 2019 11:34

Instrument :
MSVOA_U
ClientSampleId :
MDL07

Tot Ion:	73	Resp:	11898
Ion	Ratio	Lower	Upper
73	100		
43	18.3	16.2	24.4
57	24.9	18.9	28.3

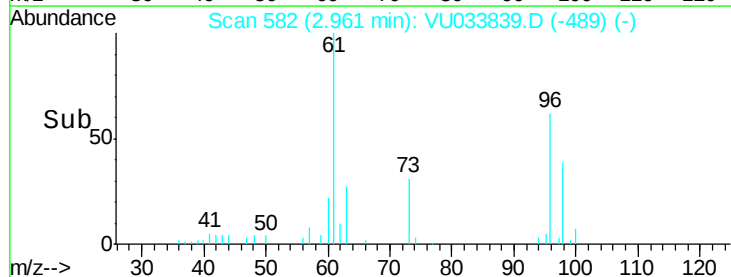
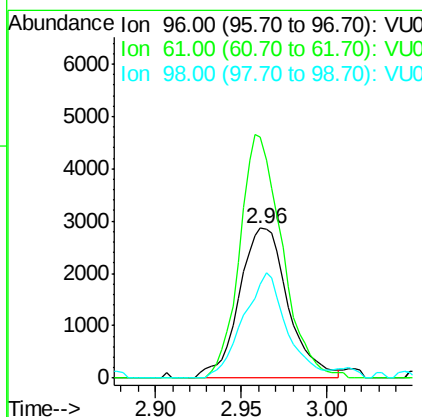
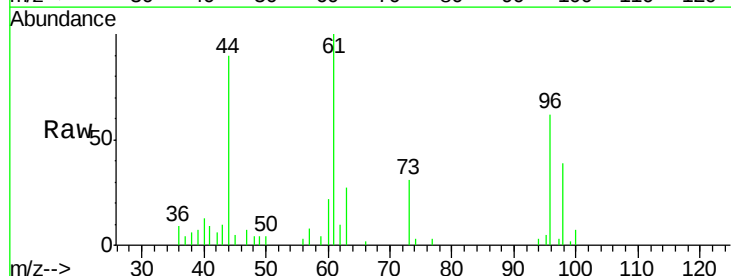
Manual Integrations
APPROVED

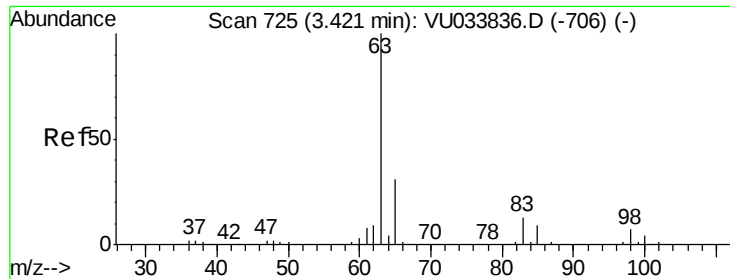
MMDadoda
8/20/2019 8:39:05 AM



#18
trans-1,2-Dichloroethene
Concen: 0.276 ug/L
RT: 2.96 min Scan# 582
Delta R.T. -0.00 min
Lab File: VU033839.D
Acq: 19 Aug 2019 11:34

Tgt Ion:	96	Resp:	5662
Ion	Ratio	Lower	Upper
96	100		
61	161.3	107.2	199.0
98	62.7	43.0	79.8





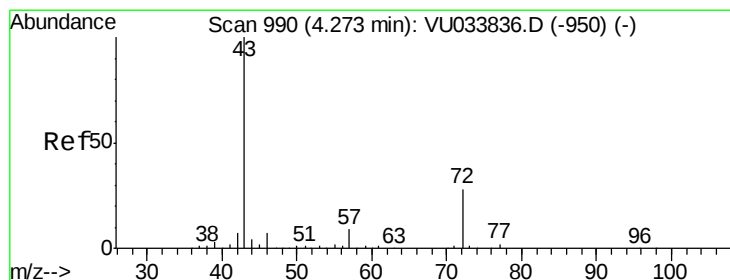
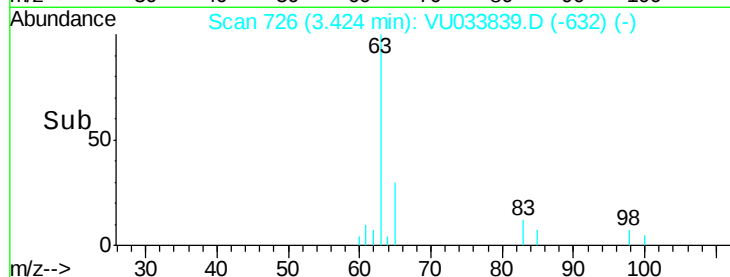
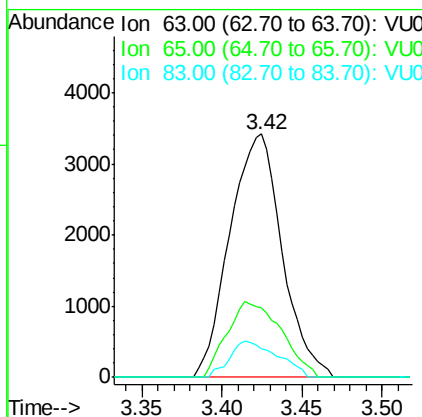
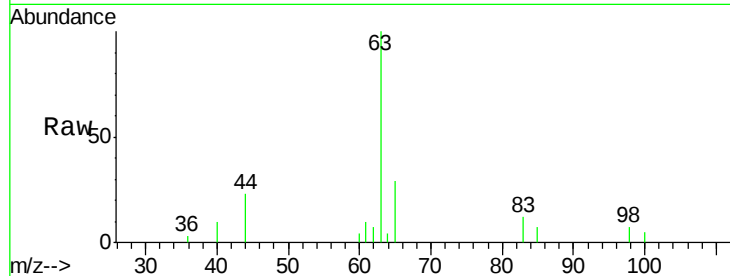
#19
 1,1-Dichloroethane
 Concen: 0.237 ug/L
 RT: 3.42 min Scan# 726
 Delta R.T. 0.00 min
 Lab File: VU033839.D
 Acq: 19 Aug 2019 11:34

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Tot Ion	Ratio	Lower	Upper
63	100		
65	28.7	22.4	41.6
83	11.9	9.7	17.9

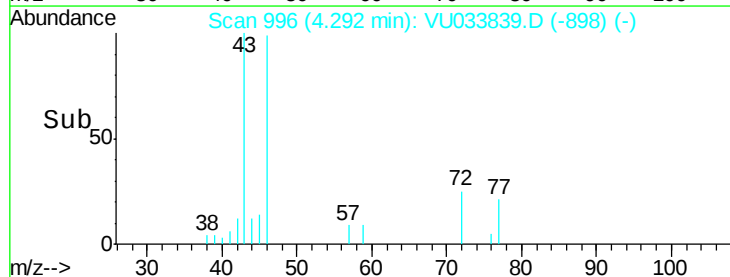
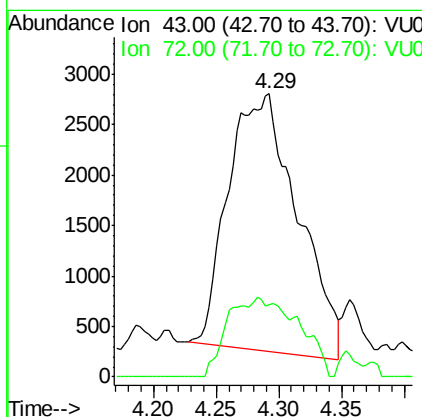
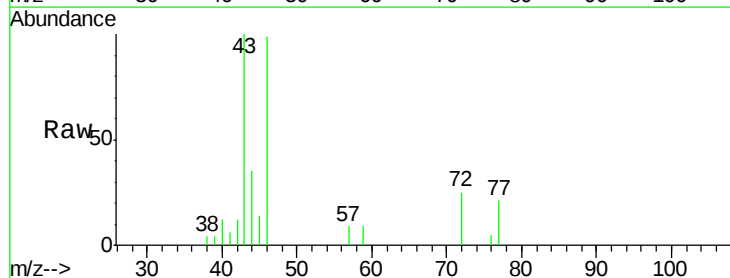
Manual Integrations
 APPROVED

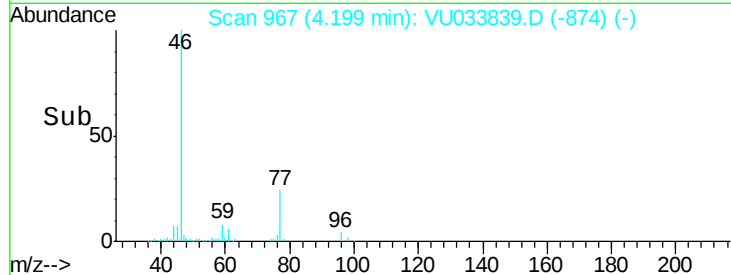
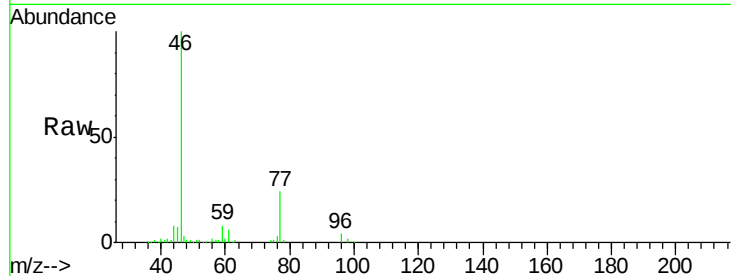
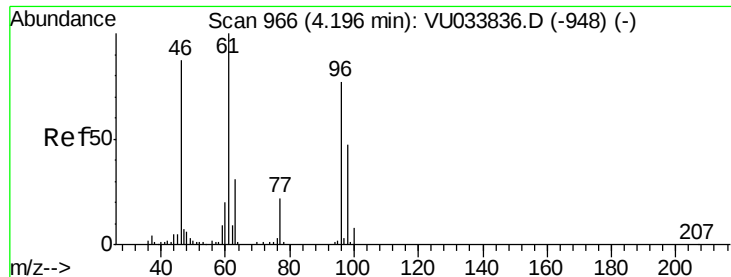
MMDadoda
 8/20/2019 8:39:05 AM



#21
 2-Butanone
 Concen: 2.042 ug/L
 RT: 4.29 min Scan# 996
 Delta R.T. 0.02 min
 Lab File: VU033839.D
 Acq: 19 Aug 2019 11:34

Tgt Ion	Ratio	Lower	Upper
43	100		
72	31.8	13.1	39.1





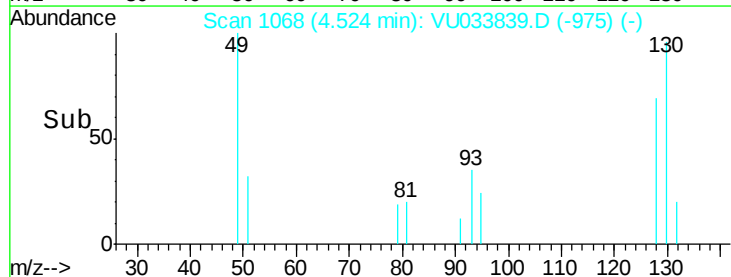
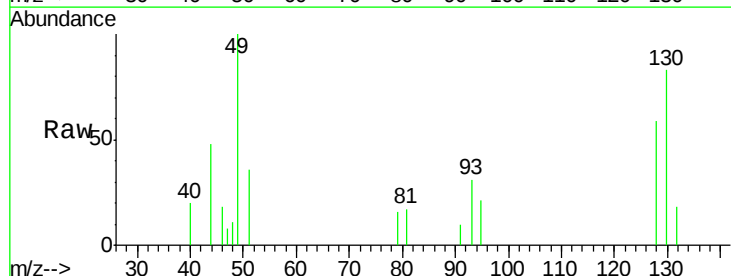
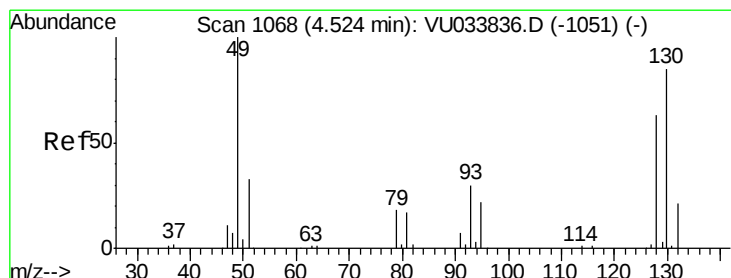
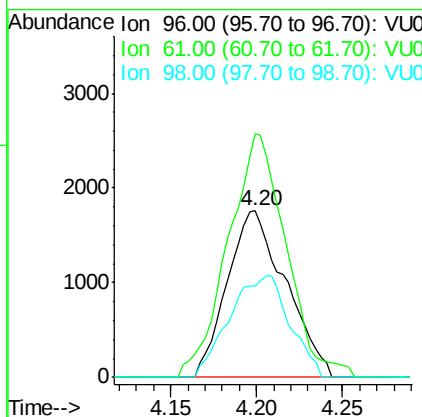
#22
cis-1,2-Dichloroethene
Concen: 0.238 ug/L
RT: 4.20 min Scan# 967
Delta R.T. -0.00 min
Lab File: VU033839.D
Acq: 19 Aug 2019 11:34

Tot Ion	Ion	Ratio	Lower	Upper
96	100			
61	146.2	91.7	170.3	
98	55.1	45.1	83.9	

Instrument :
MSVOA_U
ClientSampleId :
MDL07

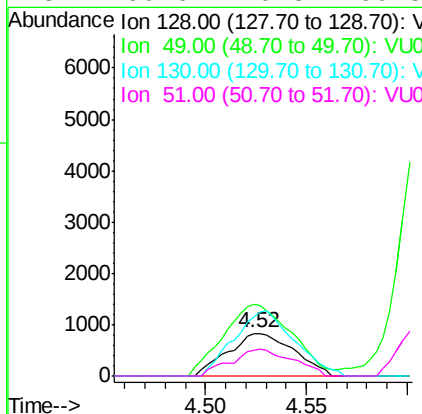
Manual Integrations
APPROVED

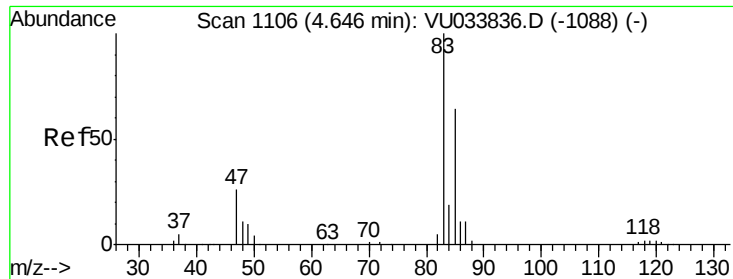
MMDadoda
8/20/2019 8:39:05 AM



#23
Bromochloromethane
Concen: 0.224 ug/L
RT: 4.52 min Scan# 1068
Delta R.T. -0.00 min
Lab File: VU033839.D
Acq: 19 Aug 2019 11:34

Tgt Ion	Ion	Ratio	Lower	Upper
128	100			
49	168.2	106.8	198.4	
130	139.6	88.3	164.1	
51	60.6	40.3	60.5	





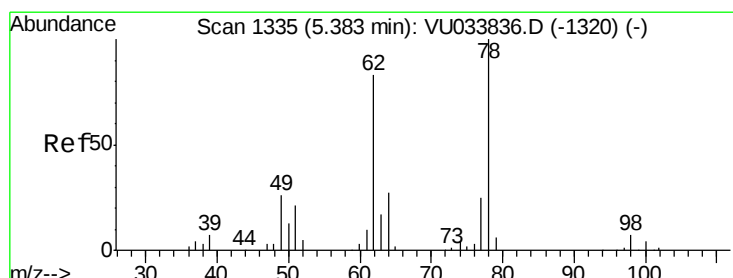
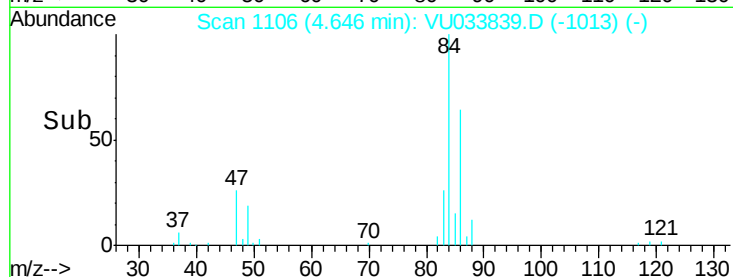
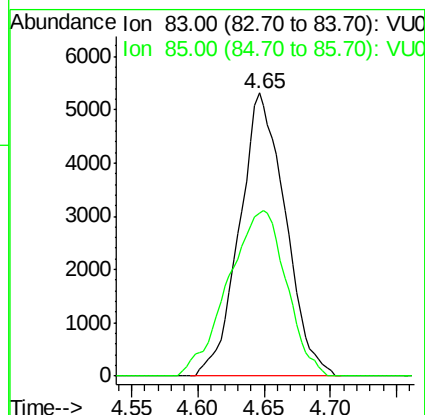
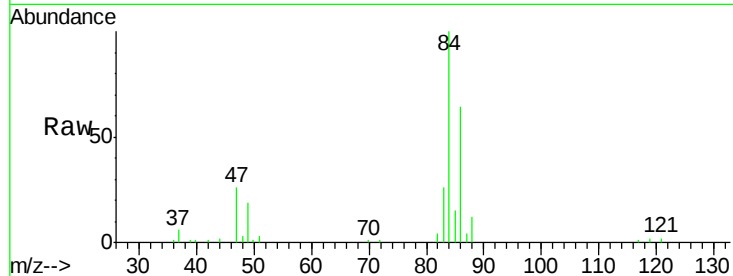
#25
Chloroform
Concen: 0.370 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VU033839.D
Acq: 19 Aug 2019 11:34

Instrument :
MSVOA_U
ClientSampleId :
MDL07

Tot Ion: 83 Resp: 12800
Ion Ratio Lower Upper
83 100
85 57.8 44.2 82.0

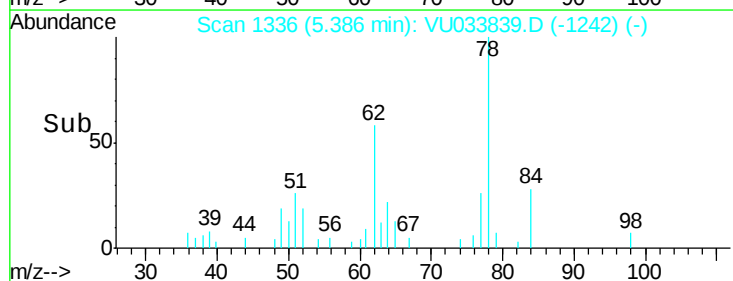
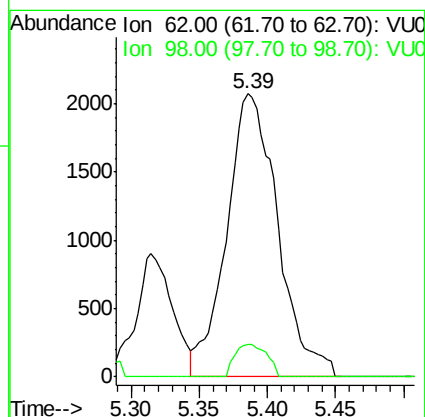
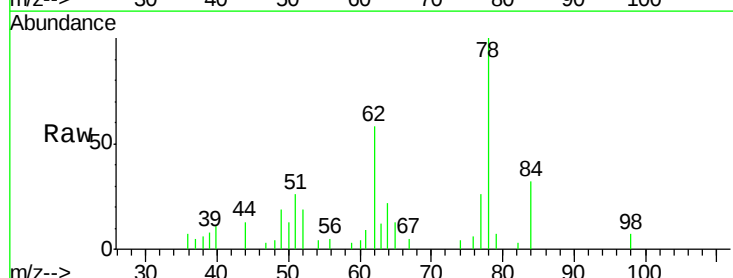
Manual Integrations
APPROVED

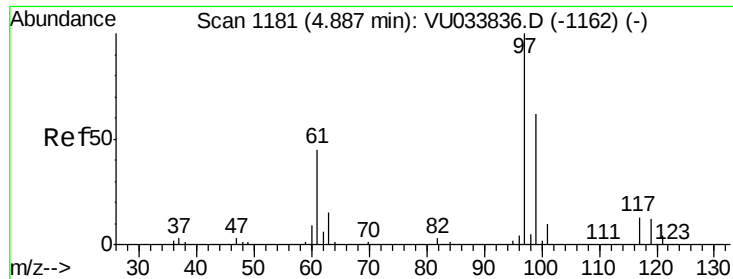
MMDadoda
8/20/2019 8:39:05 AM



#27
1,2-Dichloroethane
Concen: 0.254 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. 0.00 min
Lab File: VU033839.D
Acq: 19 Aug 2019 11:34

Tgt Ion: 62 Resp: 5405
Ion Ratio Lower Upper
62 100
98 11.5 7.4 11.0#





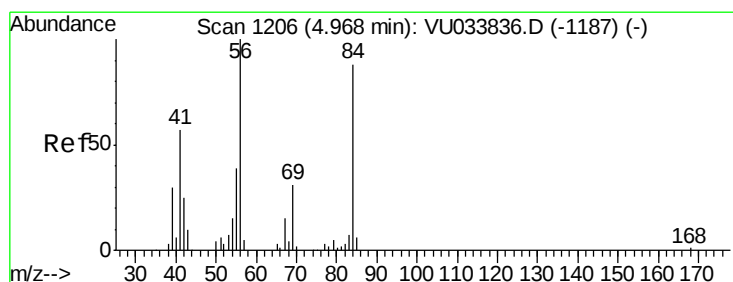
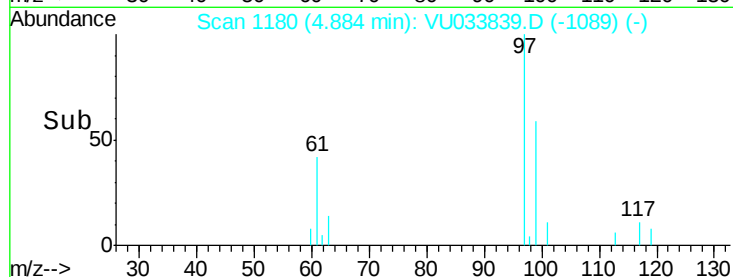
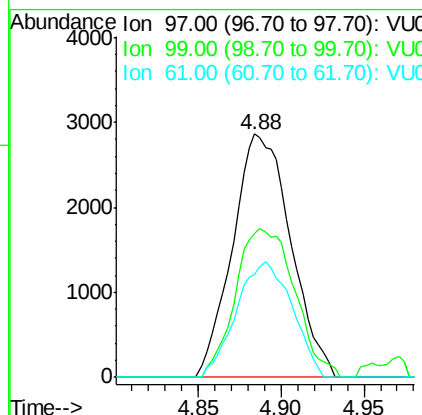
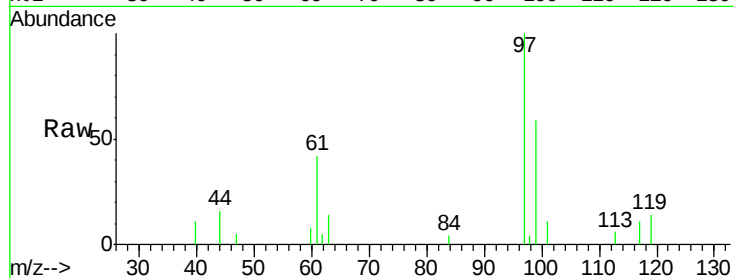
#29
1,1,1-Trichloroethane
Concen: 0.246 ug/L
RT: 4.88 min Scan# 1180
Delta R.T. -0.01 min
Lab File: VU033839.D
Acq: 19 Aug 2019 11:34

Instrument :
MSVOA_U
ClientSampled :
MDL07

Tot Ion	Ratio	Lower	Upper
97	100		
99	62.3	50.8	76.2
61	45.4	37.4	56.0

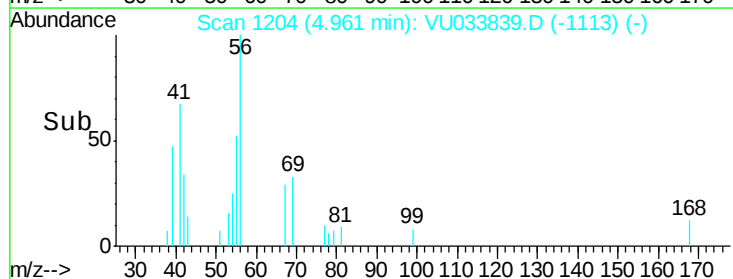
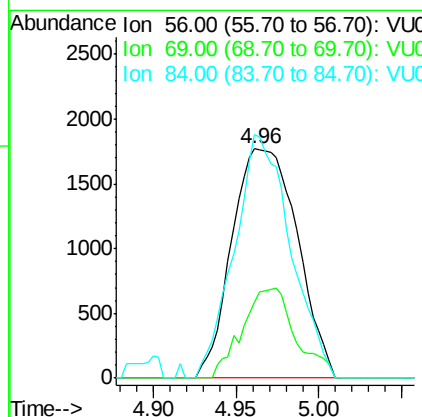
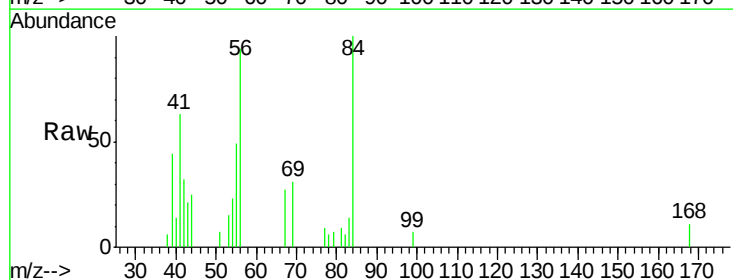
Manual Integrations
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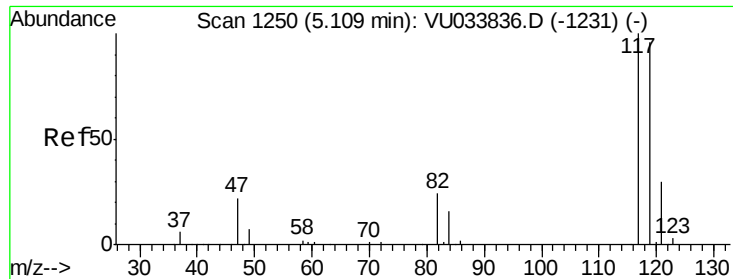
MMDadoda
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#30
Cyclohexane
Concen: 0.189 ug/L
RT: 4.96 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VU033839.D
Acq: 19 Aug 2019 11:34

Tgt Ion	Ratio	Lower	Upper
56	100		
69	32.0	25.2	37.8
84	91.5	69.8	104.6





#31

Carbon tetrachloride

Concen: 0.241 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VU033839.D

Acq: 19 Aug 2019 11:34

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion:117 Resp: 6086

Ion Ratio Lower Upper

117 100

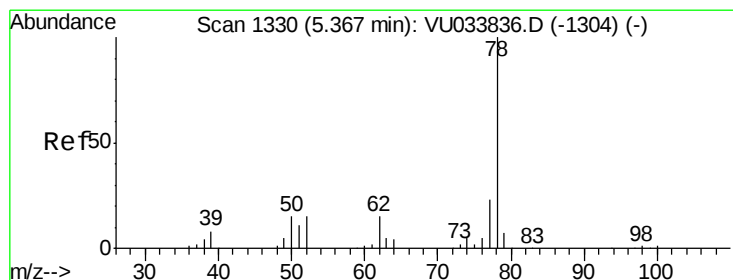
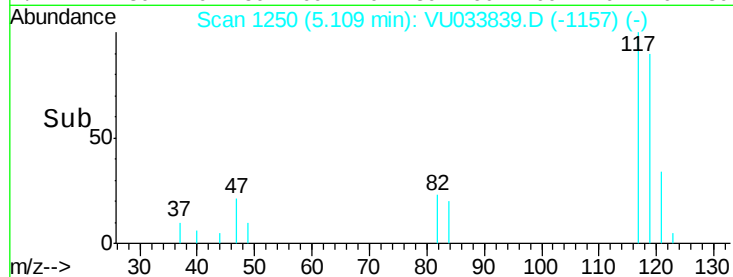
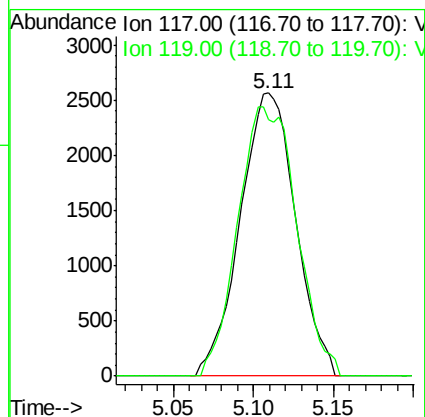
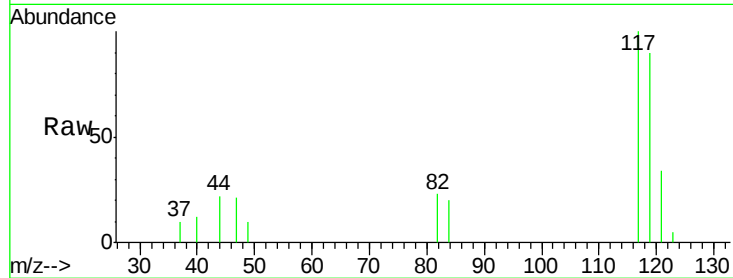
119 100.9 78.5 117.7

Manual Integrations

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#33

Benzene

Concen: 0.231 ug/L

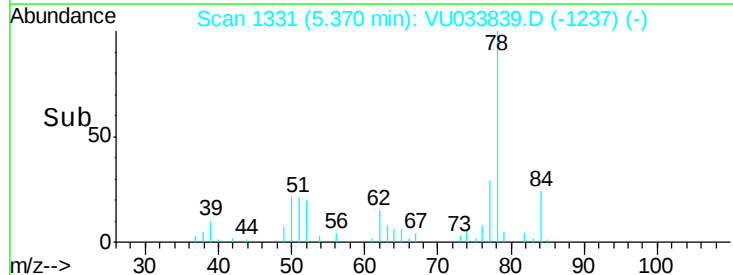
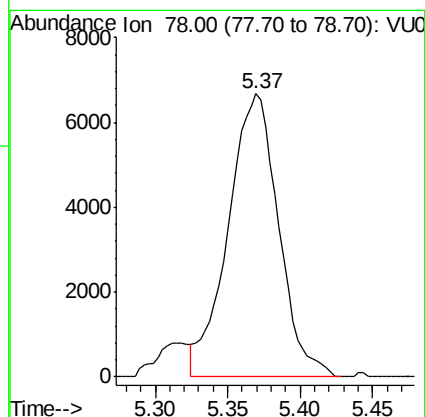
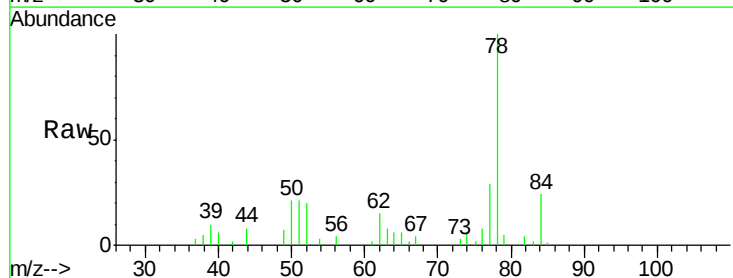
RT: 5.37 min Scan# 1331

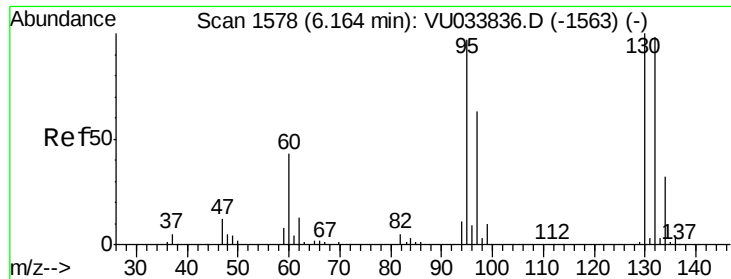
Delta R.T. 0.00 min

Lab File: VU033839.D

Acq: 19 Aug 2019 11:34

Tgt Ion: 78 Resp: 16112





#34

Trichloroethene

Concen: 0.243 ug/L

RT: 6.17 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VU033839.D

Acq: 19 Aug 2019 11:34

Instrument :

MSVOA_U

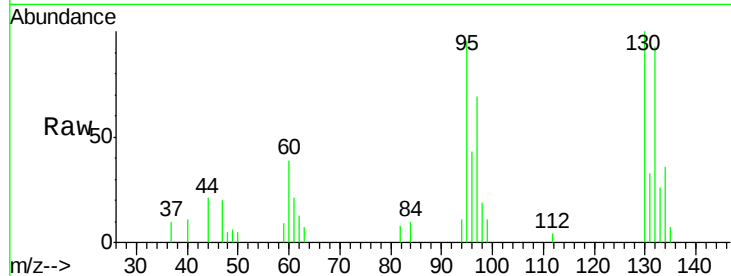
ClientSampleId :

MDL07

Tot Ion:	95	Resp:	4459
Ion	Ratio	Lower	Upper
95	100		
97	72.2	45.4	84.4
132	97.6	68.9	127.9
130	104.9	70.5	130.9

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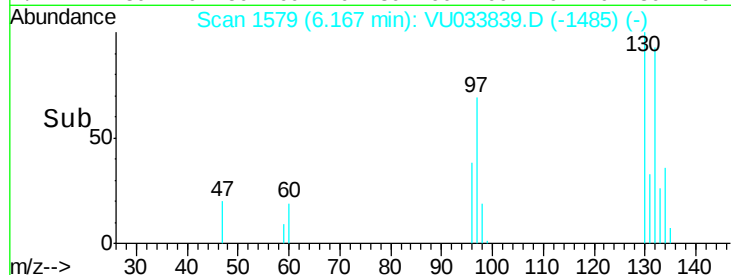
Abundance Ion 95.00 (94.70 to 95.70): VU033839.D (-1563) (-)

Ion 97.00 (96.70 to 97.70): VU033839.D (-1563) (-)

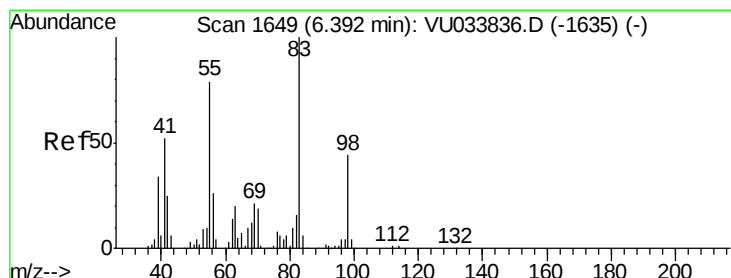
Ion 132.00 (131.70 to 132.70): VU033839.D (-1563) (-)

Ion 130.00 (129.70 to 130.70): VU033839.D (-1563) (-)

Time-->



Time-->



#35

Methylcyclohexane

Concen: 0.209 ug/L

RT: 6.39 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VU033839.D

Acq: 19 Aug 2019 11:34

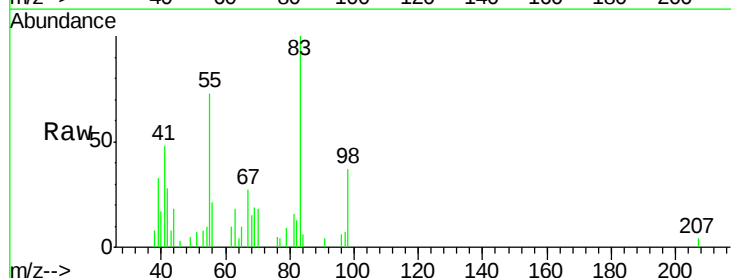
Tgt Ion:	83	Resp:	5730
Ion	Ratio	Lower	Upper
83	100		
55	81.6	65.0	97.6
98	42.2	36.2	54.4

Abundance Ion 83.00 (82.70 to 83.70): VU033839.D (-1556) (-)

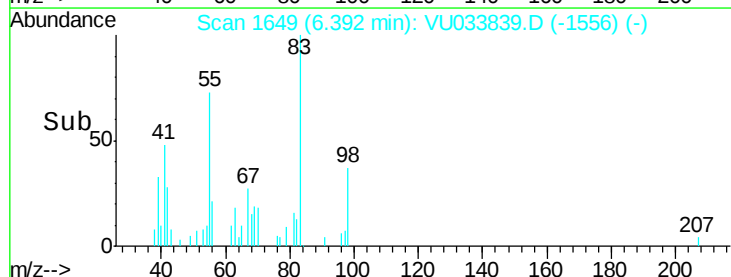
Ion 55.00 (54.70 to 55.70): VU033839.D (-1556) (-)

Ion 98.00 (97.70 to 98.70): VU033839.D (-1556) (-)

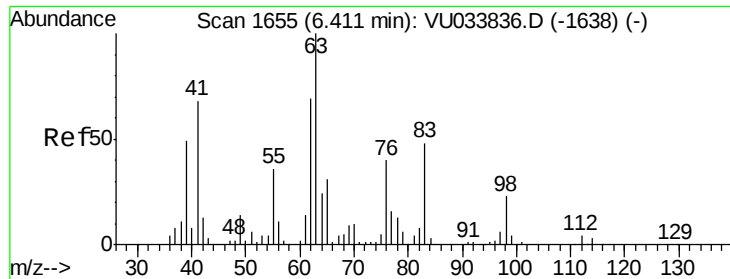
Time-->



Time-->



Time-->



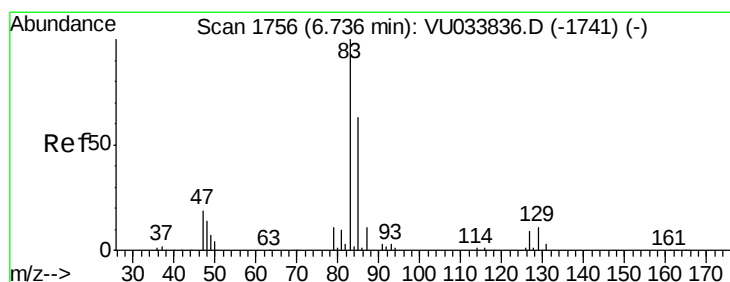
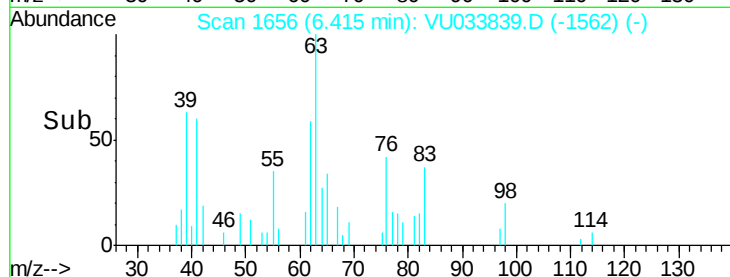
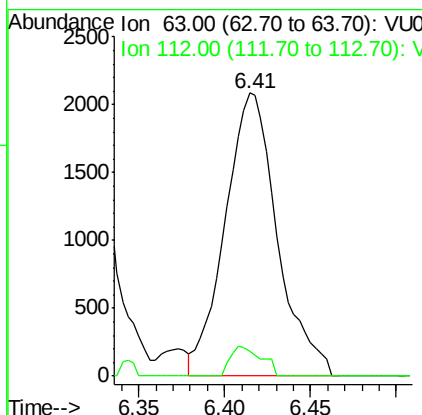
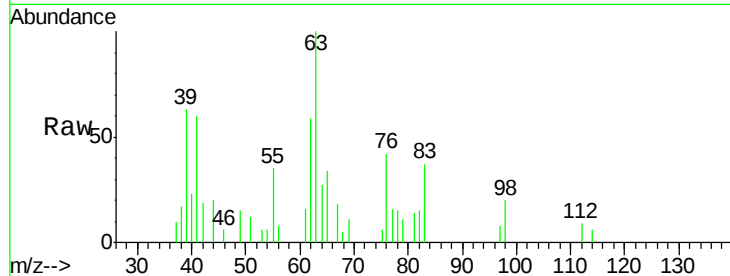
#37
 1,2-Dichloropropane
 Concen: 0.234 ug/L
 RT: 6.41 min Scan# 1656
 Delta R.T. 0.00 min
 Lab File: VU033839.D
 Acq: 19 Aug 2019 11:34

Instrument :
 MSVOA_U
 ClientSampled :
 MDL07

Tot Ion: 63 Resp: 4411
 Ion Ratio Lower Upper
 63 100
 112 6.2 3.3 4.9#

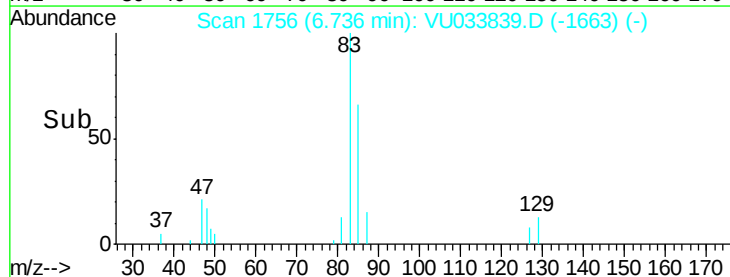
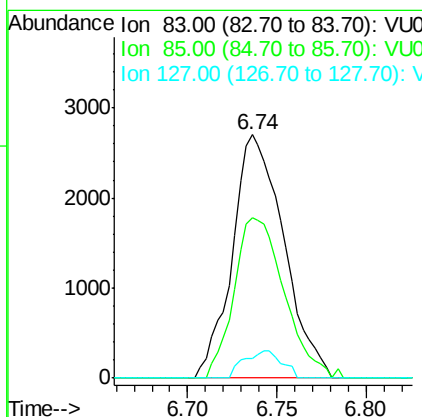
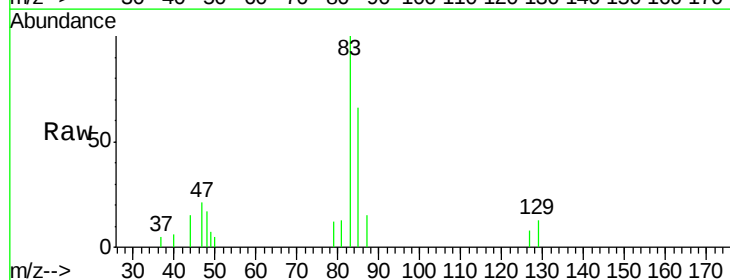
Manual Integrations
 APPROVED

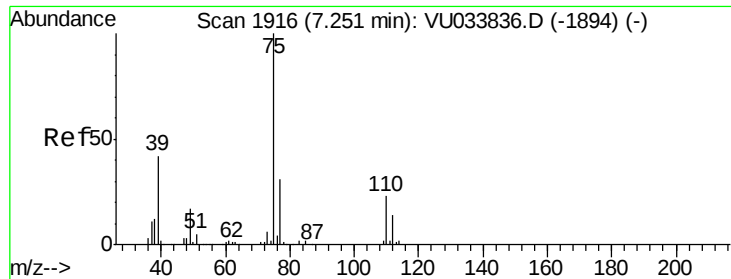
MMDadoda
 8/20/2019 8:39:05 AM



#38
 Bromodichloromethane
 Concen: 0.228 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. -0.00 min
 Lab File: VU033839.D
 Acq: 19 Aug 2019 11:34

Tgt Ion: 83 Resp: 5432
 Ion Ratio Lower Upper
 83 100
 85 65.7 45.0 83.6
 127 8.1 7.8 11.6





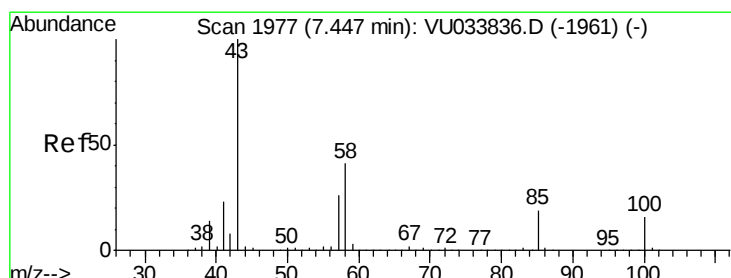
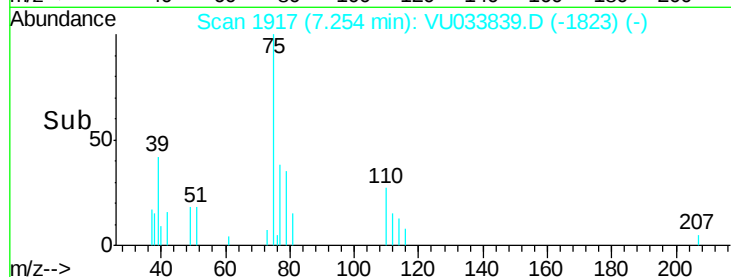
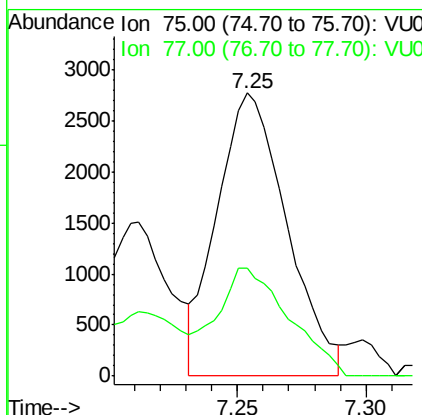
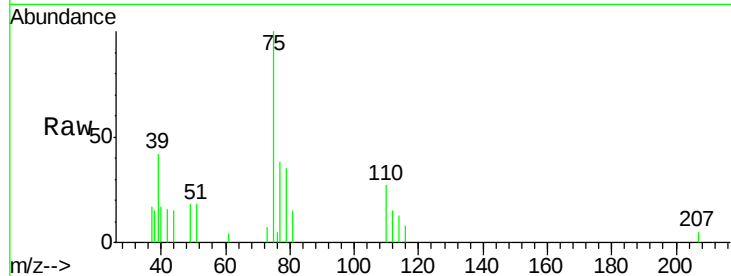
#39
 cis-1,3-Dichloropropene
 Concen: 0.205 ug/L
 RT: 7.25 min Scan# 1917
 Delta R.T. 0.00 min
 Lab File: VU033839.D
 Acq: 19 Aug 2019 11:34

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Tot Ion: 75 Resp: 5213
 Ion Ratio Lower Upper
 75 100
 77 38.0 23.6 43.8

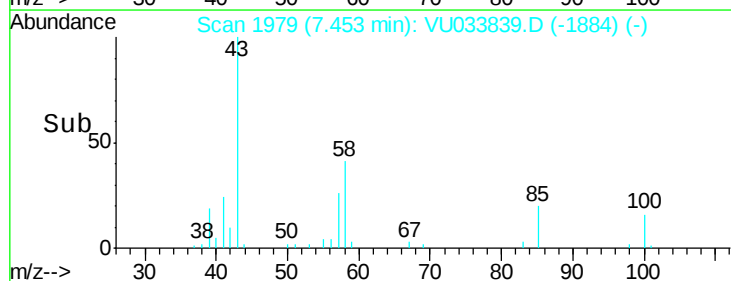
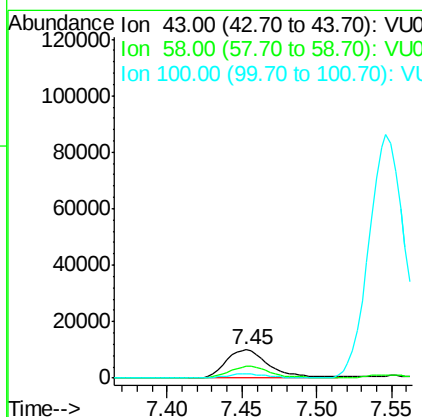
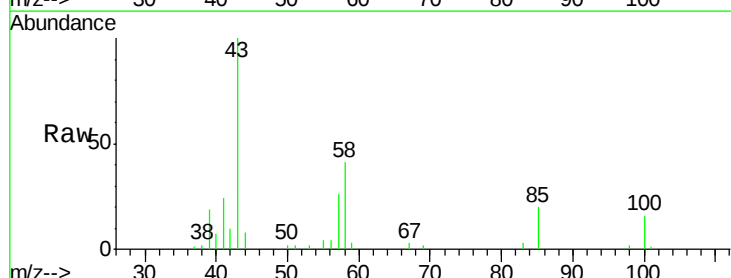
Manual Integrations
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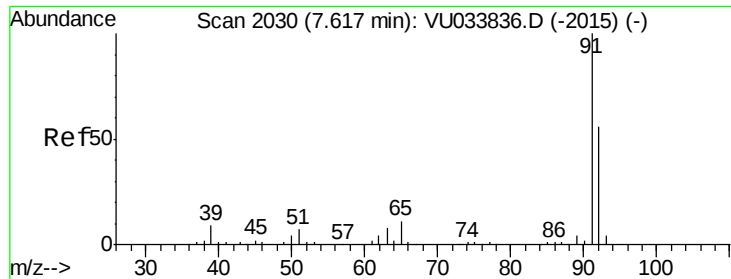
MMDadoda
 8/20/2019 8:39:05 AM



#40
 4-Methyl-2-pentanone
 Concen: 1.862 ug/L
 RT: 7.45 min Scan# 1979
 Delta R.T. 0.01 min
 Lab File: VU033839.D
 Acq: 19 Aug 2019 11:34

Tgt Ion: 43 Resp: 20310
 Ion Ratio Lower Upper
 43 100
 58 40.3 32.2 48.4
 100 0.0 11.9 17.9#





#42

Toluene

Concen: 0.226 ug/L

RT: 7.62 min Scan# 2032

Delta R.T. 0.01 min

Lab File: VU033839.D

Acq: 19 Aug 2019 11:34

Instrument :

MSVOA_U

ClientSampled :

MDL07

Tot Ion: 91 Resp: 16583

Ion Ratio Lower Upper

91 100

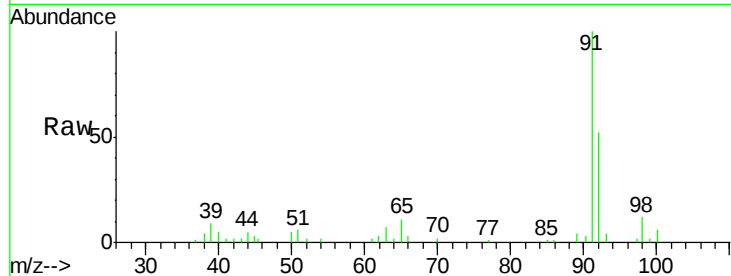
92 51.7 40.0 74.4

Manual Integrations

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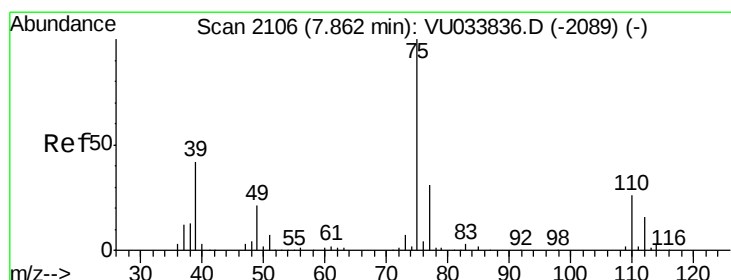
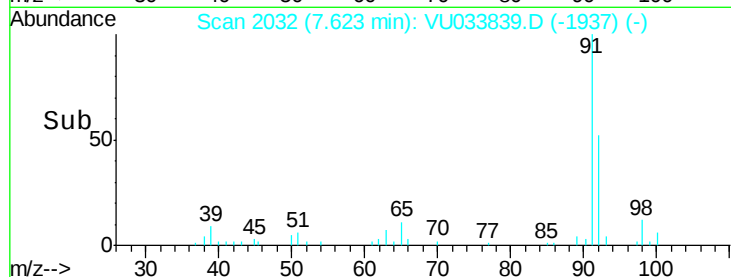
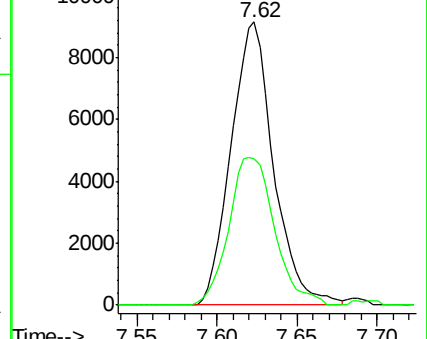
MMDadoda

8/20/2019 8:39:05 AM



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0



#44

trans-1,3-Dichloropropene

Concen: 0.227 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. 0.01 min

Lab File: VU033839.D

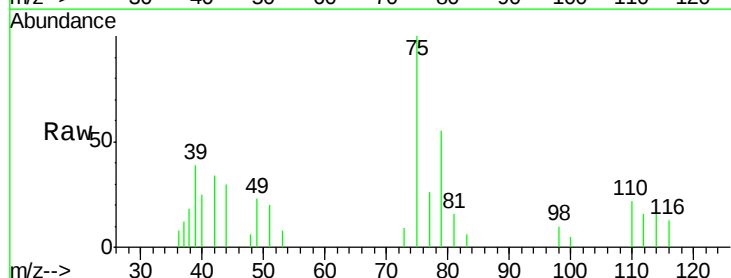
Acq: 19 Aug 2019 11:34

Tgt Ion: 75 Resp: 4836

Ion Ratio Lower Upper

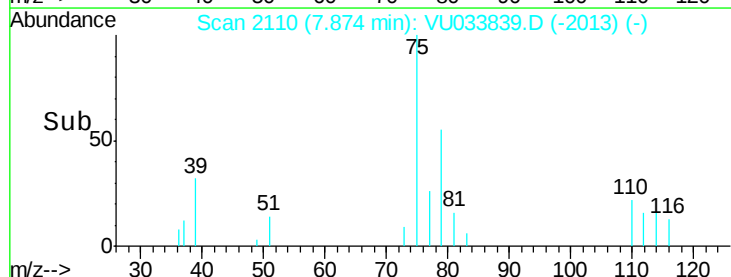
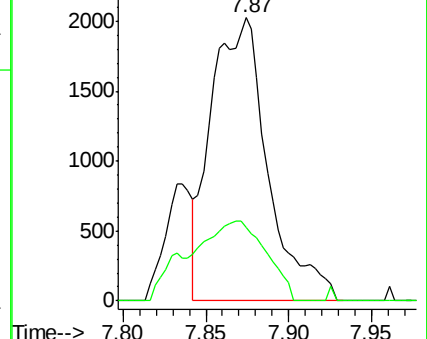
75 100

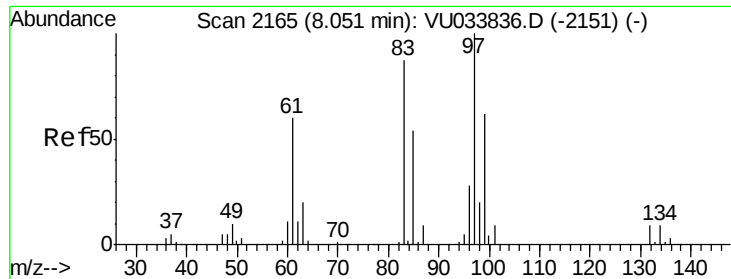
77 25.9 22.3 41.3



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0





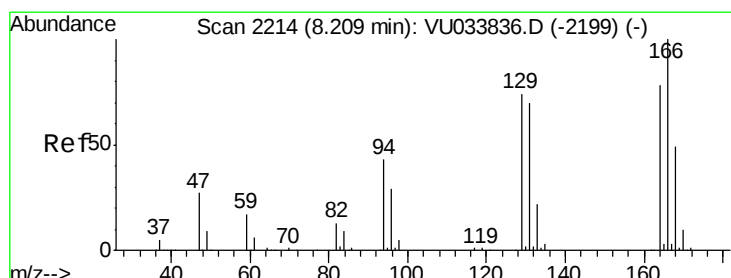
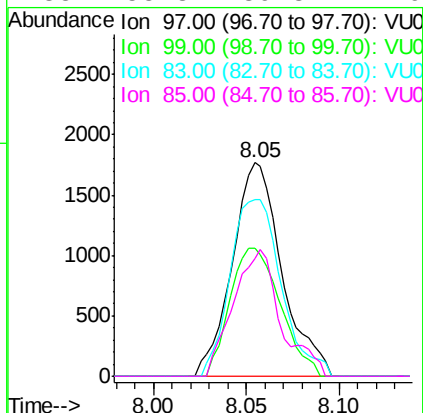
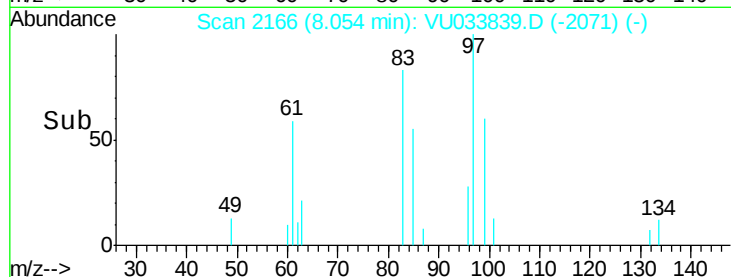
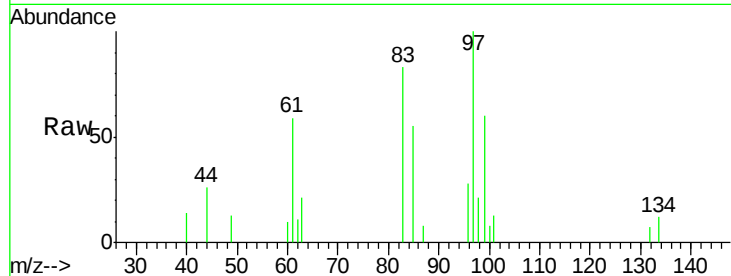
#45
1,1,2-Trichloroethane
Concen: 0.244 ug/L
RT: 8.05 min Scan# 2166
Delta R.T. 0.01 min
Lab File: VU033839.D
Acq: 19 Aug 2019 11:34

Instrument :
MSVOA_U
ClientSampled :
MDL07

Tot Ion:	97	Resp:	3287
Ion	Ratio	Lower	Upper
97	100		
99	60.0	42.6	79.0
83	82.9	59.8	111.1
85	55.3	39.3	72.9

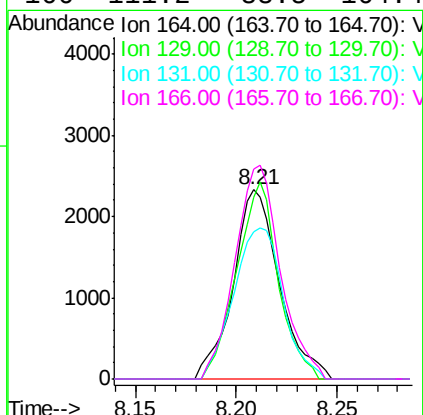
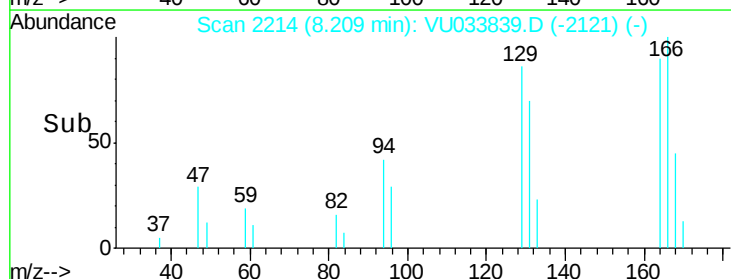
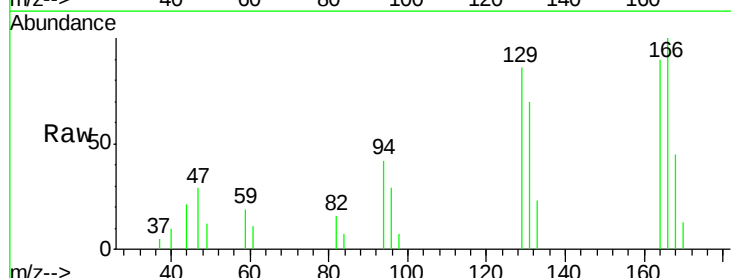
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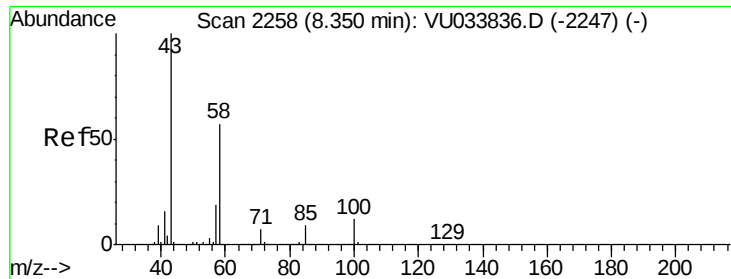
MMDadoda
8/20/2019 8:39:05 AM



#47
Tetrachloroethene
Concen: 0.245 ug/L
RT: 8.21 min Scan# 2214
Delta R.T. -0.00 min
Lab File: VU033839.D
Acq: 19 Aug 2019 11:34

Tgt Ion:	164	Resp:	3737
Ion	Ratio	Lower	Upper
164	100		
129	96.0	66.1	122.7
131	78.1	65.2	121.2
166	111.2	88.5	164.4





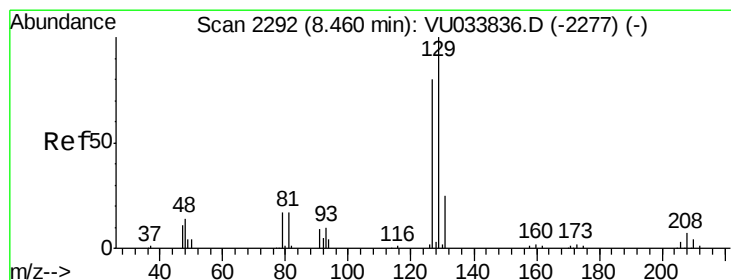
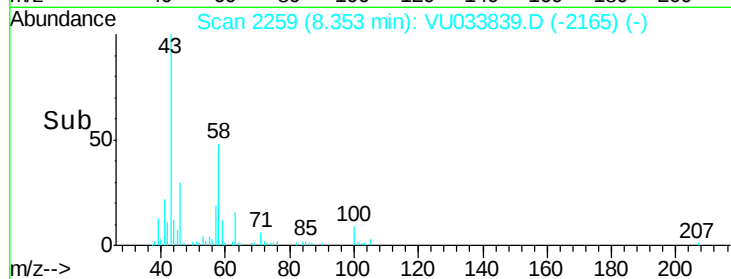
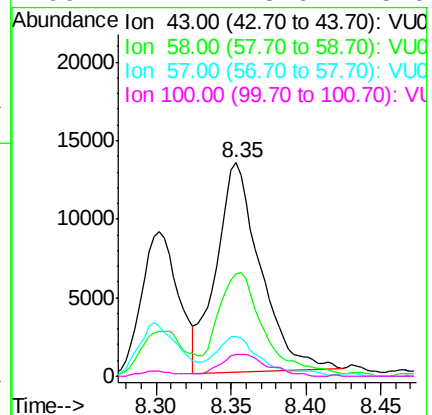
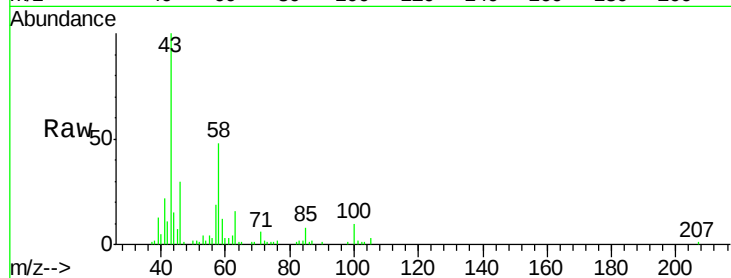
#48
2-Hexanone
Concen: 3.468 ug/L
RT: 8.35 min Scan# 2259
Delta R.T. 0.00 min
Lab File: VU033839.D
Acq: 19 Aug 2019 11:34

Instrument :
MSVOA_U
ClientSampleId :
MDL07

Tot Ion:	43	Resp:	27356
Ion	Ratio	Lower	Upper
43	100		
58	51.5	45.2	67.8
57	15.9	15.7	23.5
100	11.2	8.6	13.0

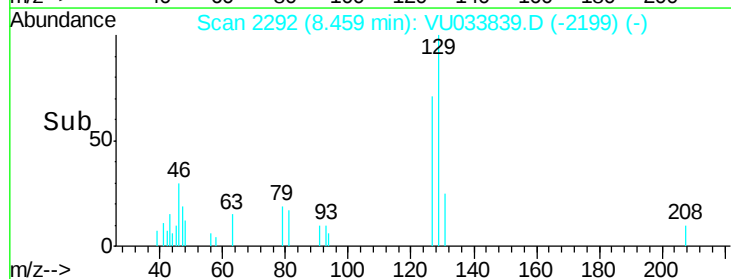
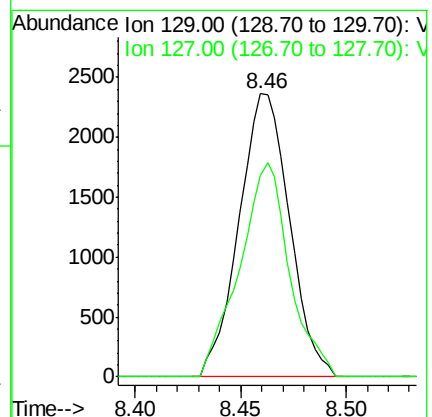
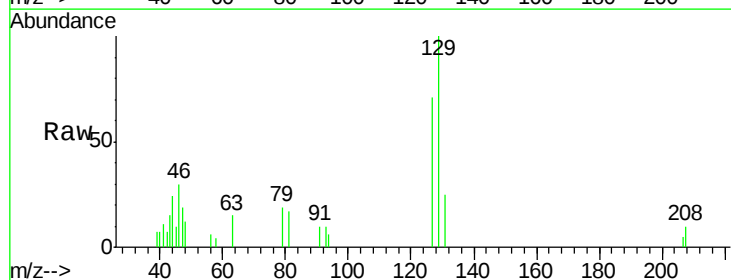
Manual Integrations
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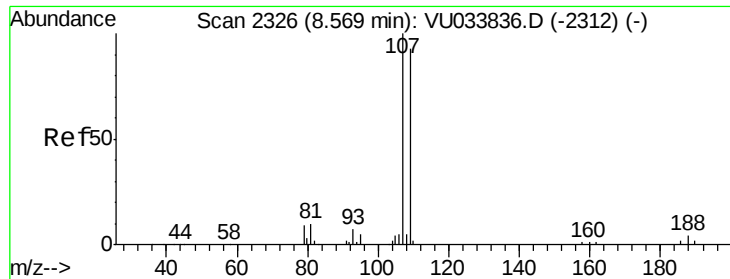
MMDadoda
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#49
Dibromochloromethane
Concen: 0.240 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. -0.00 min
Lab File: VU033839.D
Acq: 19 Aug 2019 11:34

Tgt Ion:	129	Resp:	3931
Ion	Ratio	Lower	Upper
129	100		
127	71.3	54.2	100.6





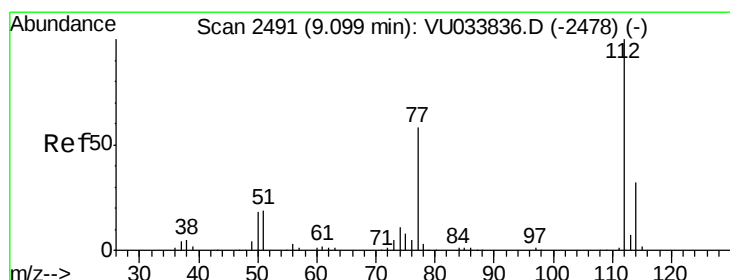
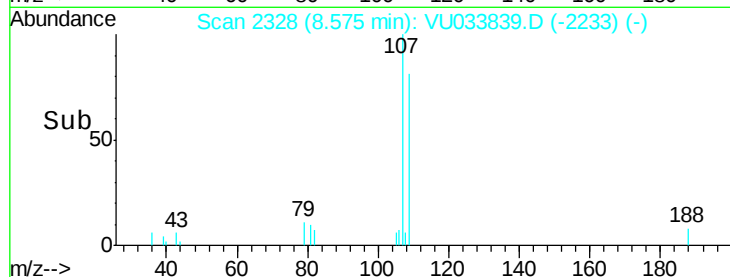
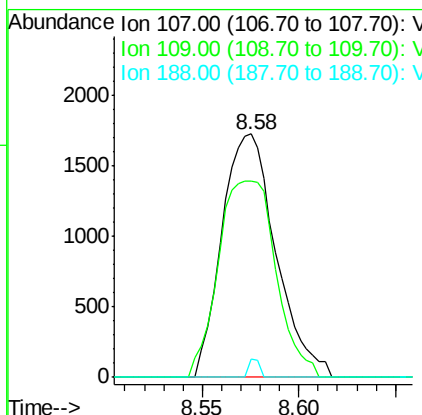
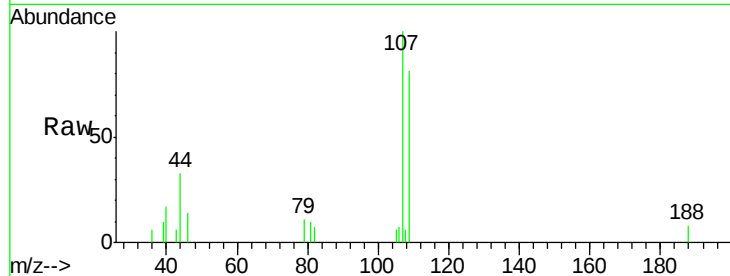
#50
1,2-Dibromoethane
Concen: 0.257 ug/L
RT: 8.58 min Scan# 2328
Delta R.T. 0.01 min
Lab File: VU033839.D
Acq: 19 Aug 2019 11:34

Instrument :
MSVOA_U
ClientSampleId :
MDL07

Tot Ion	Ratio	Lower	Upper
107	100		
109	80.6	68.3	126.8
188	7.5	3.0	4.6#

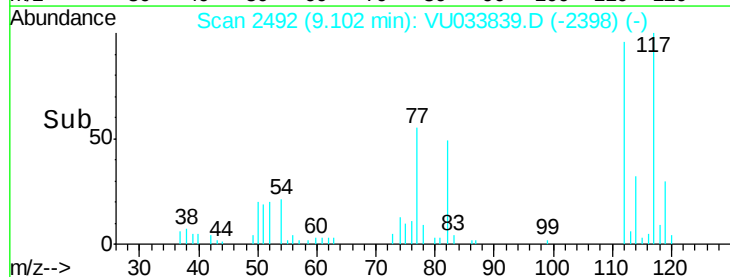
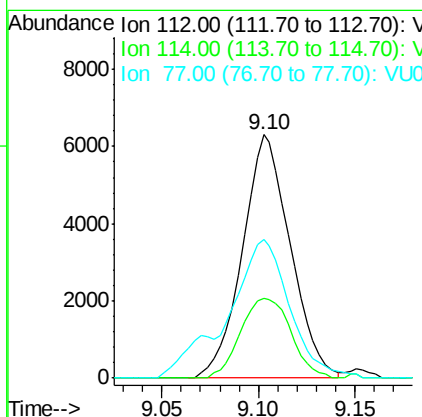
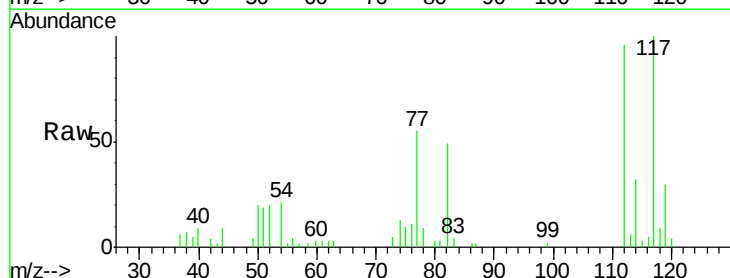
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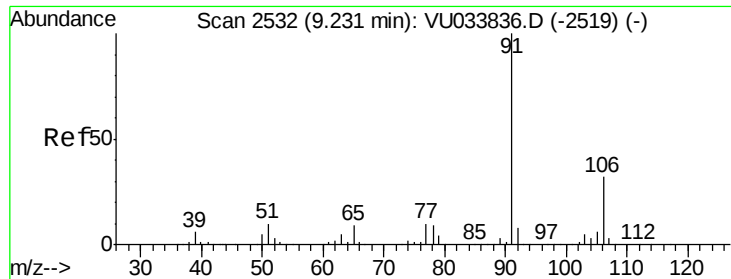
MMDadoda
8/20/2019 8:39:05 AM



#51
Chlorobenzene
Concen: 0.230 ug/L
RT: 9.10 min Scan# 2492
Delta R.T. 0.00 min
Lab File: VU033839.D
Acq: 19 Aug 2019 11:34

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.8	22.5	41.7
77	56.8	45.3	67.9





#52

Ethylbenzene

Concen: 0.202 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033839.D

Acq: 19 Aug 2019 11:34

Instrument :

MSVOA_U

ClientSampled :

MDL07

Tot Ion: 91 Resp: 15361

Ion Ratio Lower Upper

91 100

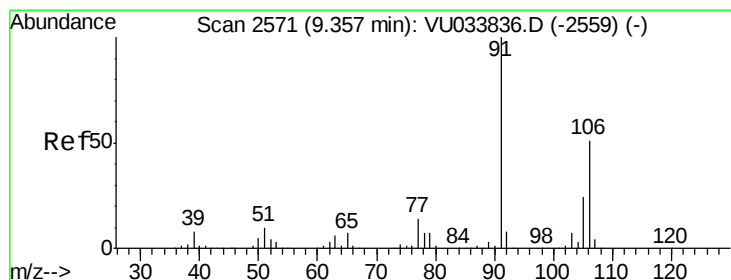
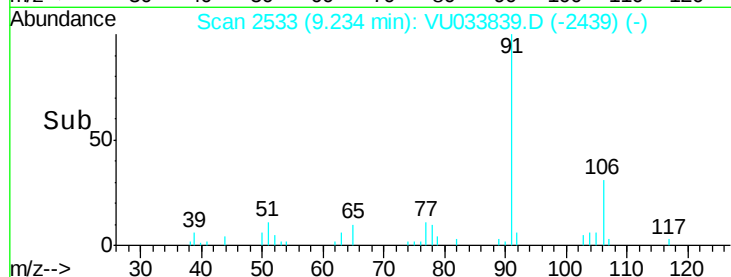
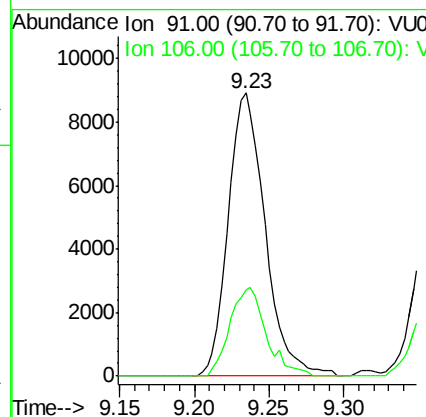
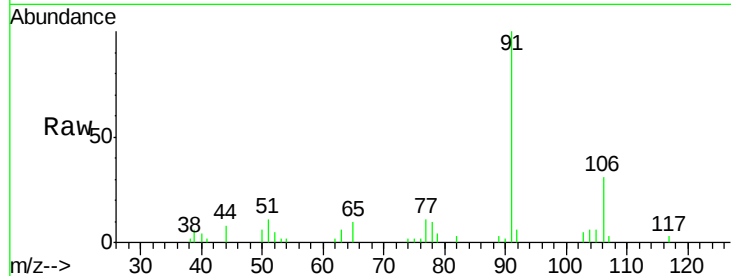
106 30.5 21.6 40.0

Manual Integrations

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MMDadoda

8/20/2019 8:39:05 AM



#53

m,p-Xylene

Concen: 0.190 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033839.D

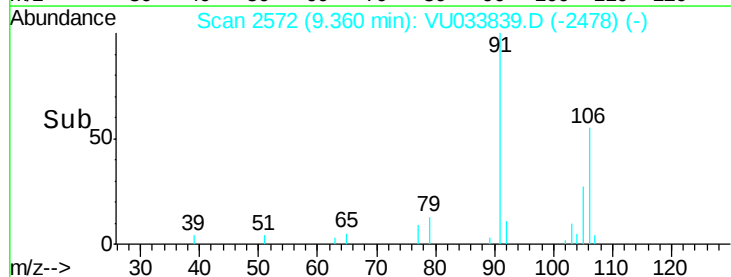
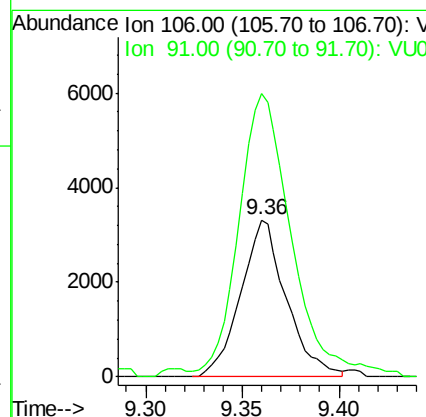
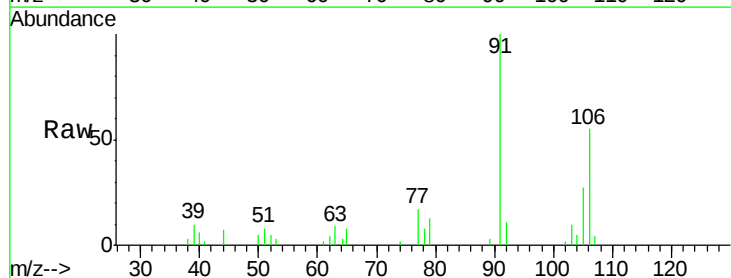
Acq: 19 Aug 2019 11:34

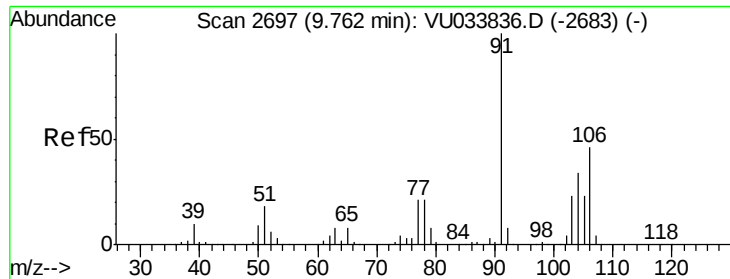
Tgt Ion: 106 Resp: 5432

Ion Ratio Lower Upper

106 100

91 180.7 142.7 265.1





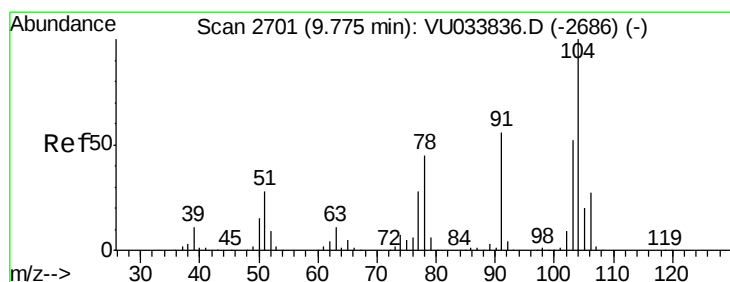
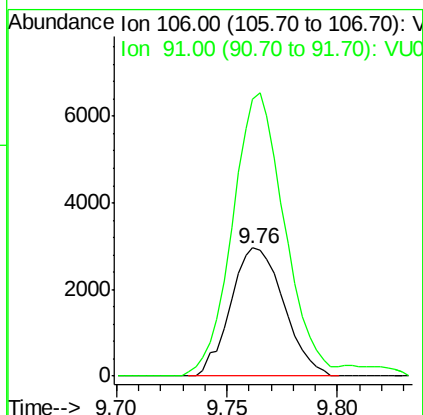
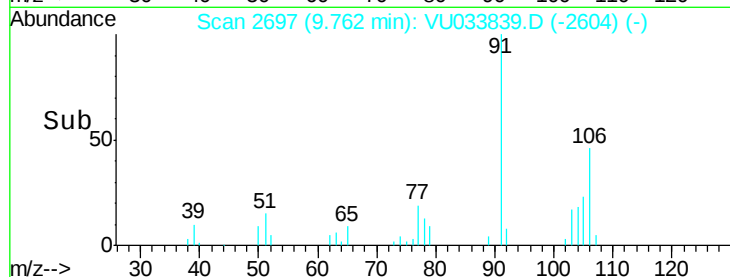
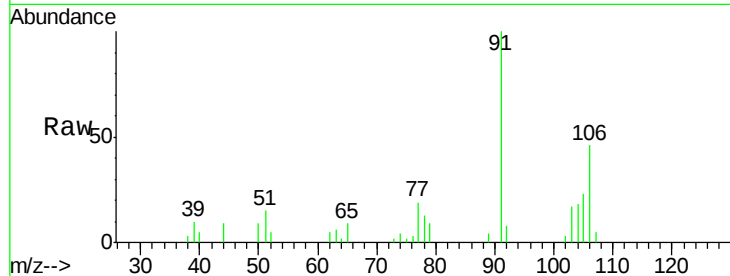
#54
o-Xylene
Concen: 0.183 ug/L
RT: 9.76 min Scan# 2697
Delta R.T. -0.00 min
Lab File: VU033839.D
Acq: 19 Aug 2019 11:34

Instrument :
MSVOA_U
ClientSampleId :
MDL07

Tot Ion:106 Resp: 4984
Ion Ratio Lower Upper
106 100
91 216.0 149.5 277.7

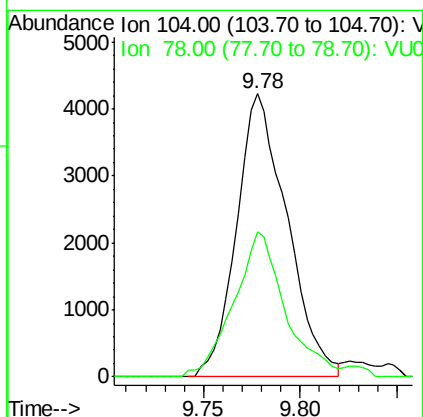
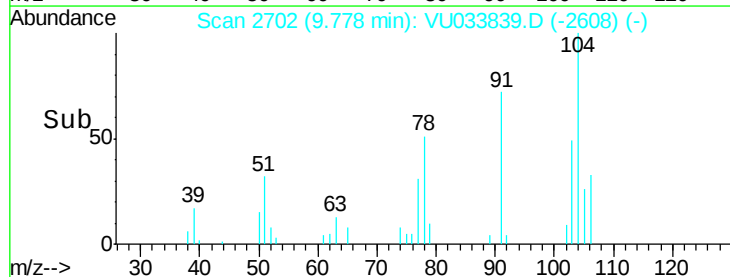
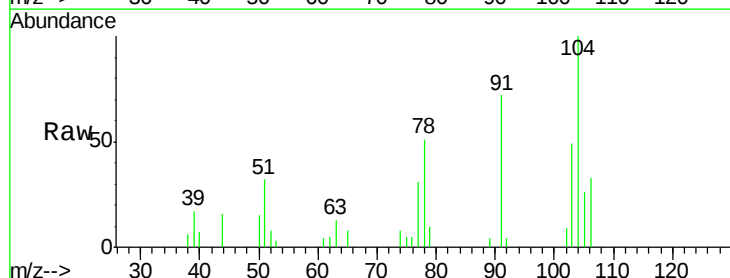
Manual Integrations
APPROVED

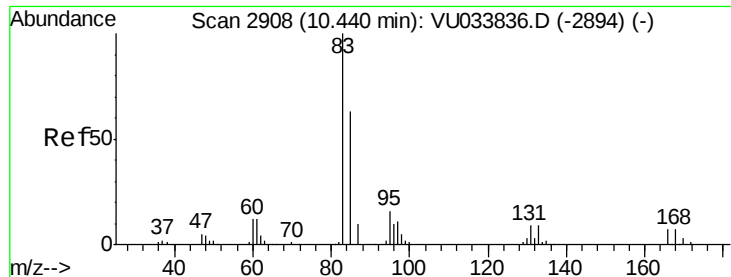
MMDadoda
8/20/2019 8:39:05 AM



#55
Styrene
Concen: 0.162 ug/L
RT: 9.78 min Scan# 2702
Delta R.T. 0.00 min
Lab File: VU033839.D
Acq: 19 Aug 2019 11:34

Tgt Ion:104 Resp: 7662
Ion Ratio Lower Upper
104 100
78 51.3 31.8 59.0





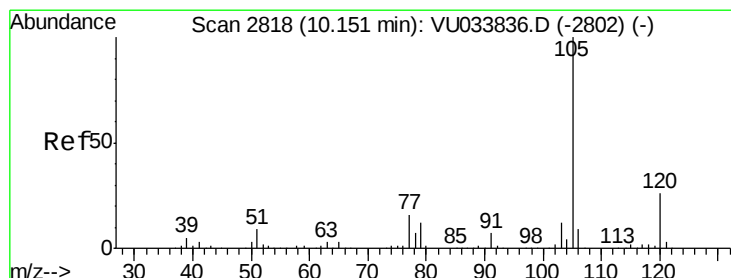
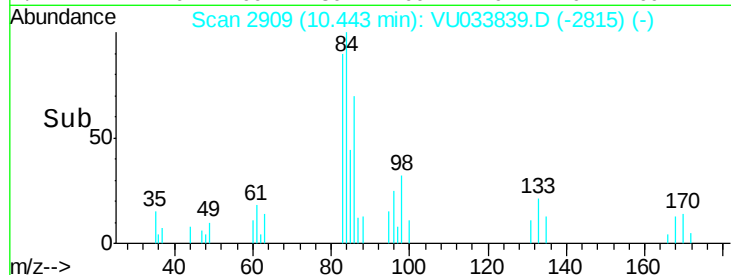
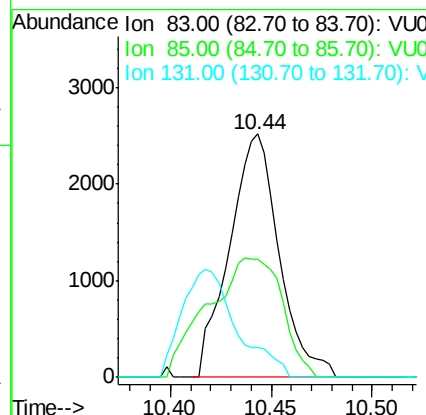
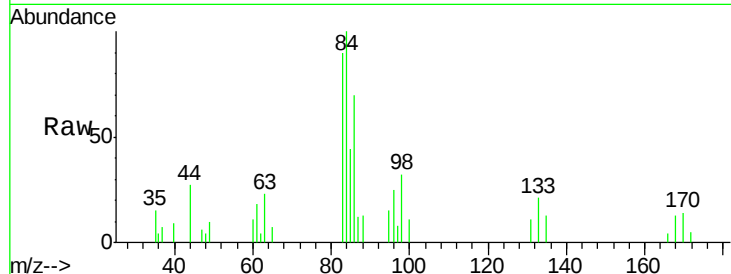
#57
 1,1,2,2-Tetrachloroethane
 Concen: 0.244 ug/L
 RT: 10.44 min Scan# 2909
 Delta R.T. 0.00 min
 Lab File: VU033839.D
 Acq: 19 Aug 2019 11:34

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Tot Ion	83	Resp	4327
Ion Ratio	Lower	Upper	
83	100		
85	48.5	44.4	82.4
131	12.4	7.6	11.4#

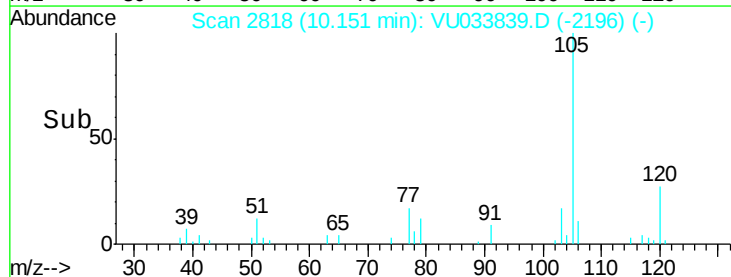
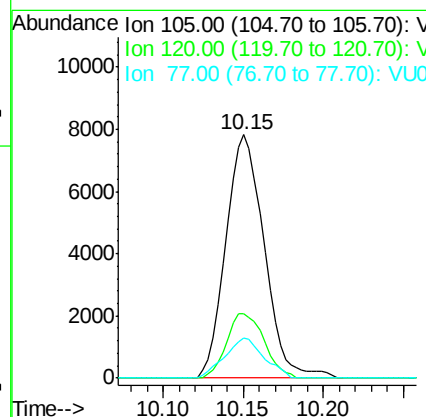
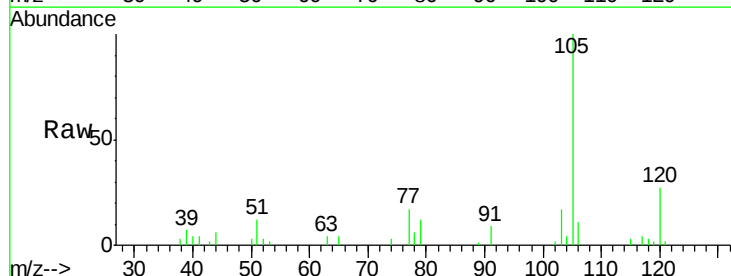
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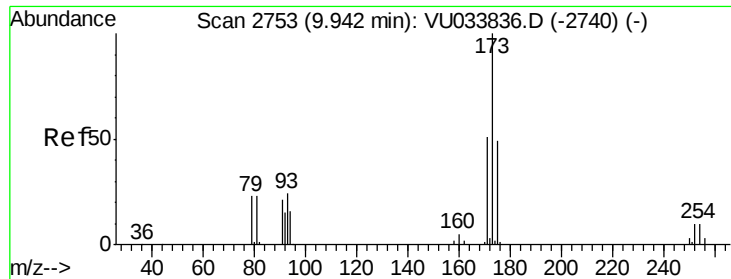
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#59
 Isopropylbenzene
 Concen: 0.209 ug/L
 RT: 10.15 min Scan# 2818
 Delta R.T. -0.00 min
 Lab File: VU033839.D
 Acq: 19 Aug 2019 11:34

Tgt Ion	105	Resp	12849
Ion Ratio	Lower	Upper	
105	100		
120	25.8	21.5	32.3
77	16.6	12.8	19.2





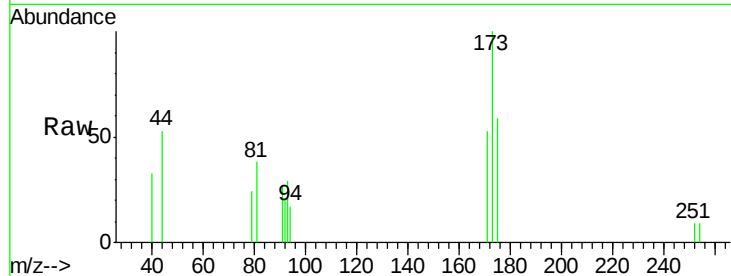
#60
Bromoform
Concen: 0.238 ug/L
RT: 9.94 min Scan# 2753
Delta R.T. -0.00 min
Lab File: VU033839.D
Acq: 19 Aug 2019 11:34

Instrument :
MSVOA_U
ClientSampleId :
MDL07

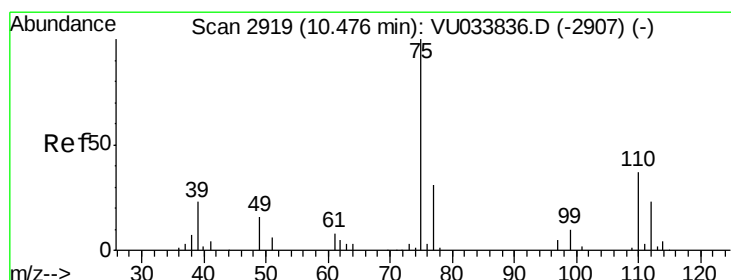
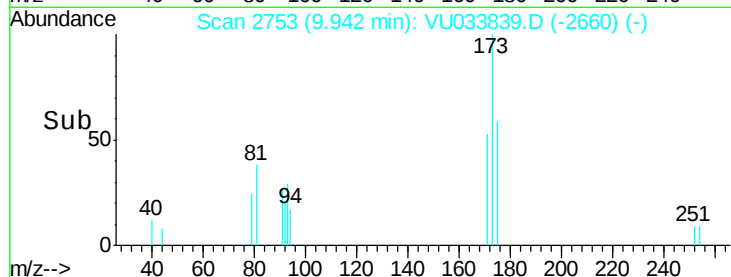
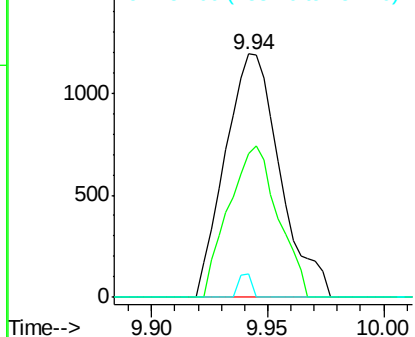
Tot Ion	Ratio	Lower	Upper
173	100		
175	55.9	36.6	55.0#
254	2.1	7.0	10.4#

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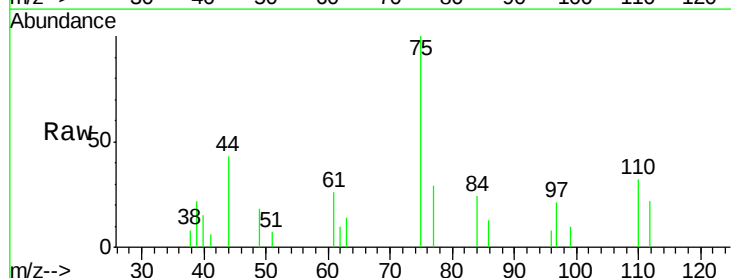


Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V

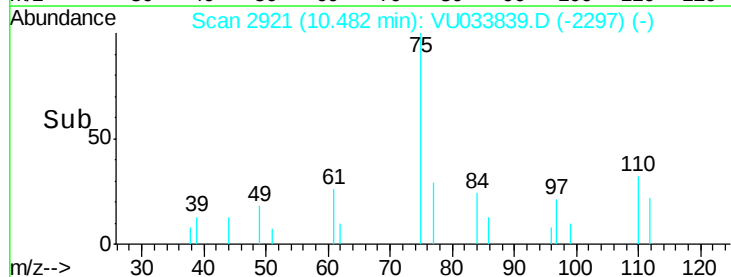
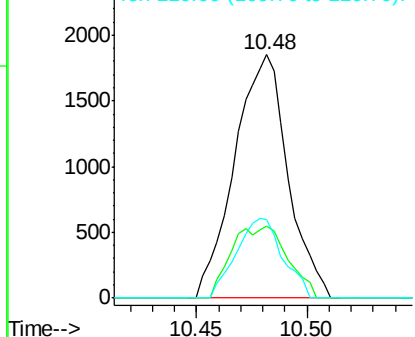


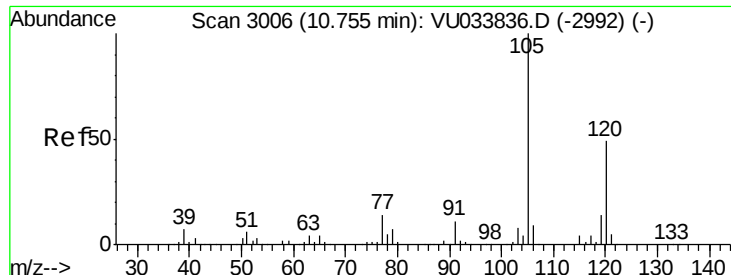
#61
1,2,3-Trichloropropane
Concen: 0.291 ug/L
RT: 10.48 min Scan# 2921
Delta R.T. 0.01 min
Lab File: VU033839.D
Acq: 19 Aug 2019 11:34

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.8	38.6
110	28.6	28.9	43.3#



Abundance Ion 75.00 (74.70 to 75.70): VU0
Ion 77.00 (76.70 to 77.70): VU0
Ion 110.00 (109.70 to 110.70): V





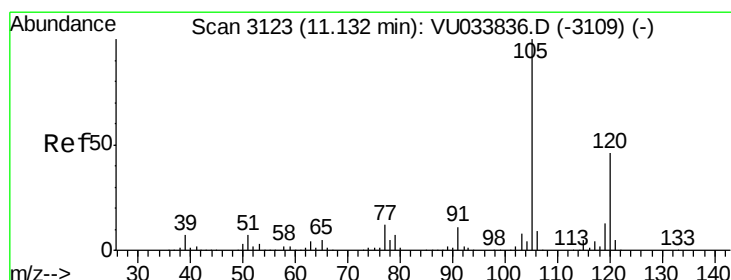
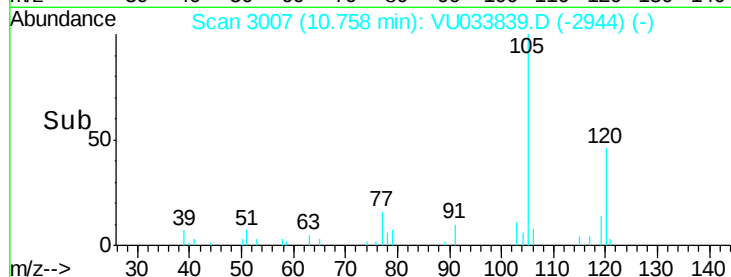
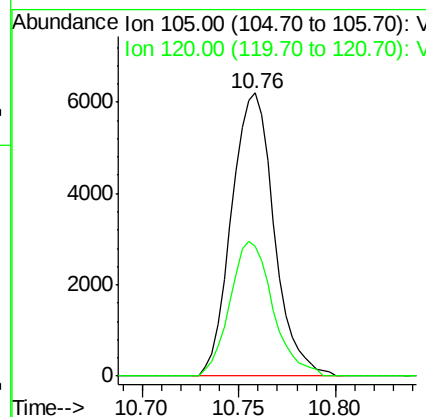
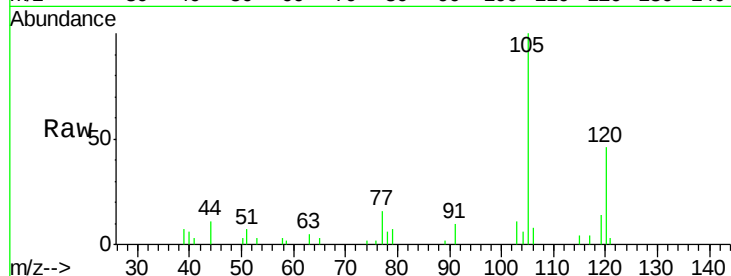
#62
 1,3,5-Trimethylbenzene
 Concen: 0.191 ug/L
 RT: 10.76 min Scan# 3007
 Delta R.T. 0.00 min
 Lab File: VU033839.D
 Acq: 19 Aug 2019 11:34

Instrument :
 MSVOA_U
 ClientSampled :
 MDL07

Tot Ion:105 Resp: 9483
 Ion Ratio Lower Upper
 105 100
 120 47.9 38.6 58.0

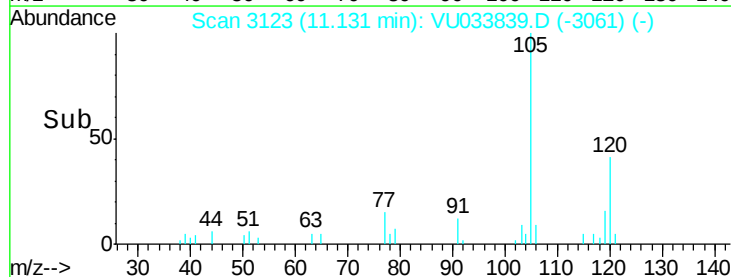
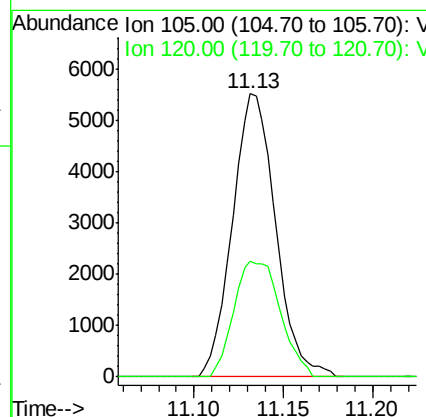
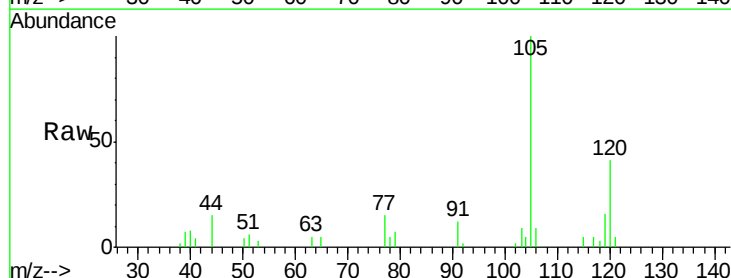
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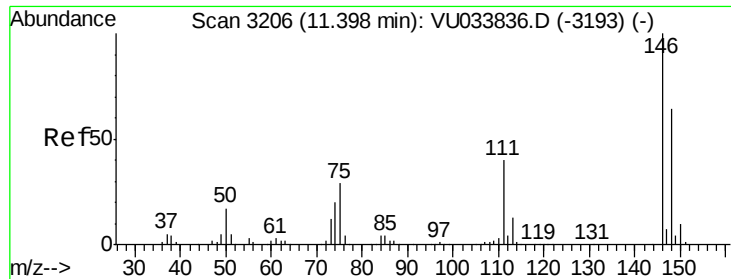
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#63
 1,2,4-Trimethylbenzene
 Concen: 0.187 ug/L
 RT: 11.13 min Scan# 3123
 Delta R.T. -0.00 min
 Lab File: VU033839.D
 Acq: 19 Aug 2019 11:34

Tgt Ion:105 Resp: 9285
 Ion Ratio Lower Upper
 105 100
 120 43.8 36.5 54.7





#64

1,3-Dichlorobenzene

Concen: 0.222 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. -0.00 min

Lab File: VU033839.D

Acq: 19 Aug 2019 11:34

Instrument :

MSVOA_U

ClientSampled :

MDL07

Tot Ion:146 Resp: 7289

Ion Ratio Lower Upper

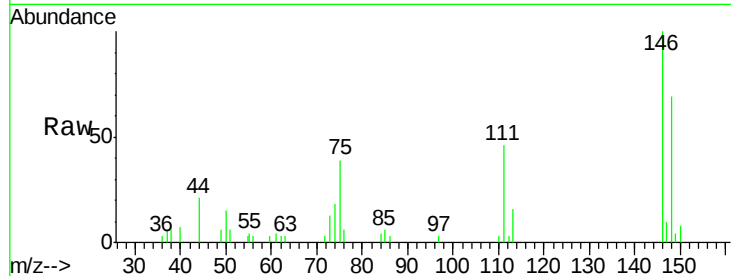
146 100

111 45.7 28.5 52.9

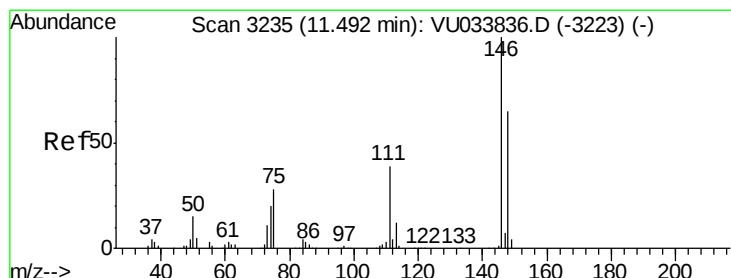
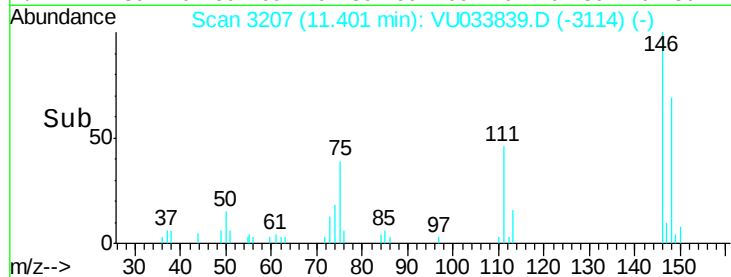
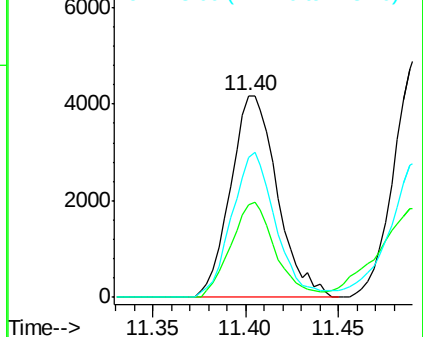
148 69.3 44.6 82.8

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Abundance Ion 145.95 (145.65 to 146.65): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V



#65

1,4-Dichlorobenzene

Concen: 0.247 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. -0.00 min

Lab File: VU033839.D

Acq: 19 Aug 2019 11:34

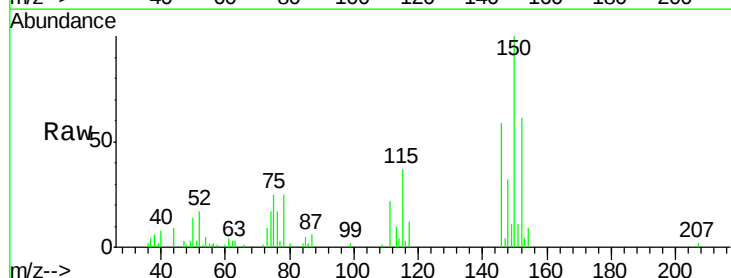
Tgt Ion:146 Resp: 8325

Ion Ratio Lower Upper

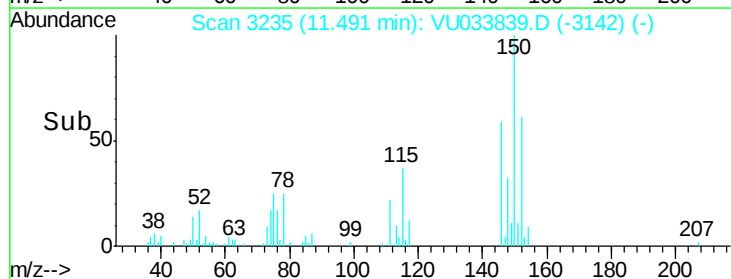
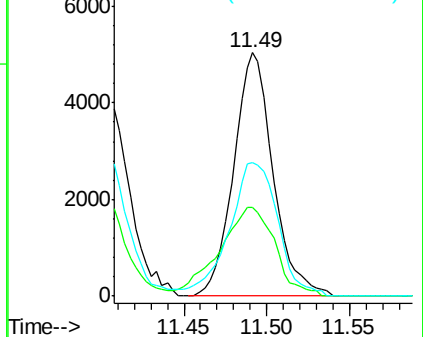
146 100

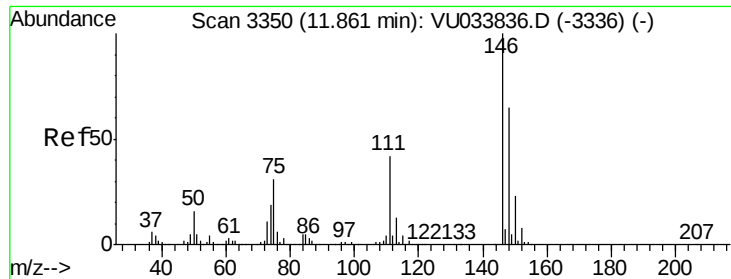
111 36.7 26.2 48.8

148 55.0 44.2 82.0



Abundance Ion 145.95 (145.65 to 146.65): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V





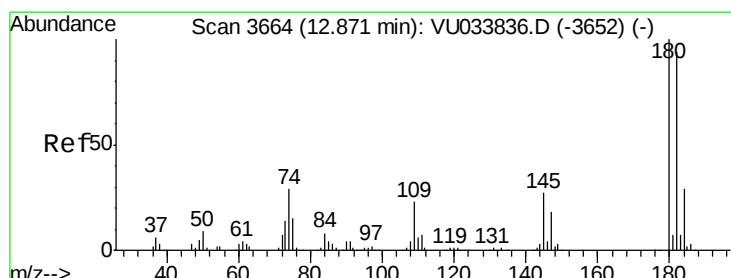
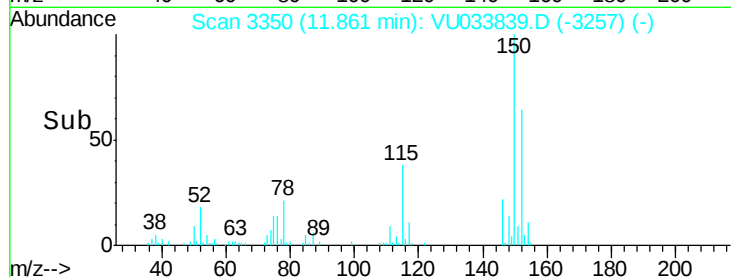
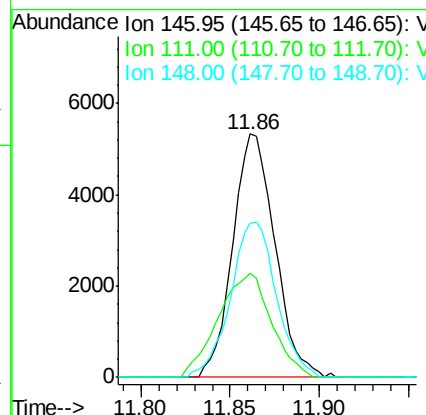
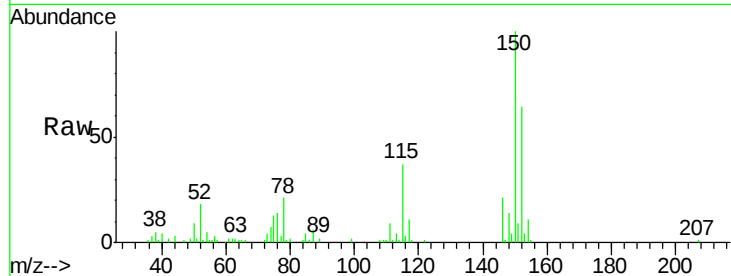
#67
 1,2-Dichlorobenzene
 Concen: 0.277 ug/L
 RT: 11.86 min Scan# 3350
 Delta R.T. -0.00 min
 Lab File: VU033839.D
 Acq: 19 Aug 2019 11:34

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.8	32.7	49.1
148	63.4	50.6	76.0

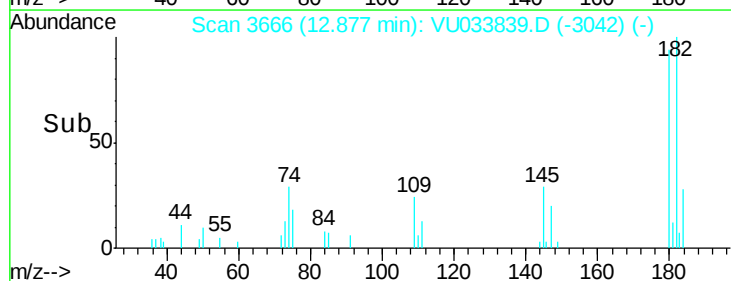
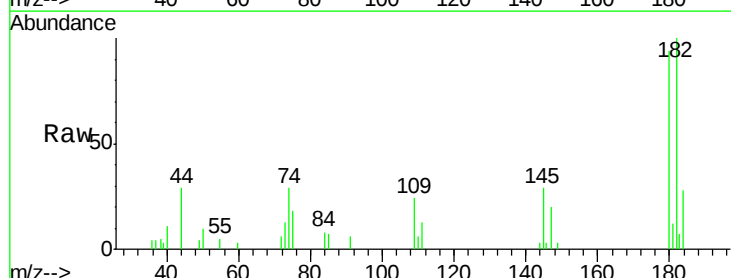
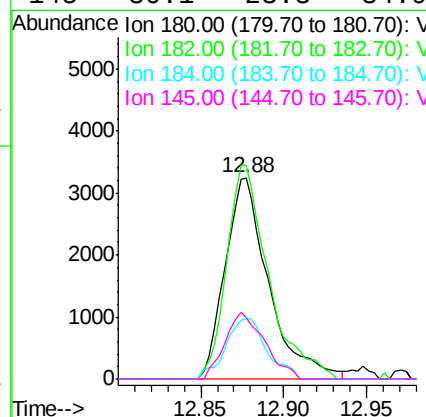
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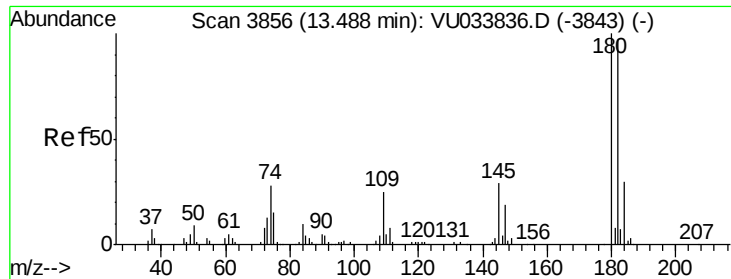
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#69
 1,3,5-Trichlorobenzene
 Concen: 0.229 ug/L
 RT: 12.88 min Scan# 3666
 Delta R.T. 0.01 min
 Lab File: VU033839.D
 Acq: 19 Aug 2019 11:34

Tgt Ion	Ratio	Lower	Upper
180	100		
182	102.1	76.6	114.8
184	28.3	24.4	36.6
145	30.1	23.3	34.9





#70

1,2,4-trichlorobenzene

Concen: 0.205 ug/L

RT: 13.49 min Scan# 3857

Delta R.T. 0.00 min

Lab File: VU033839.D

Acq: 19 Aug 2019 11:34

Instrument :

MSVOA_U

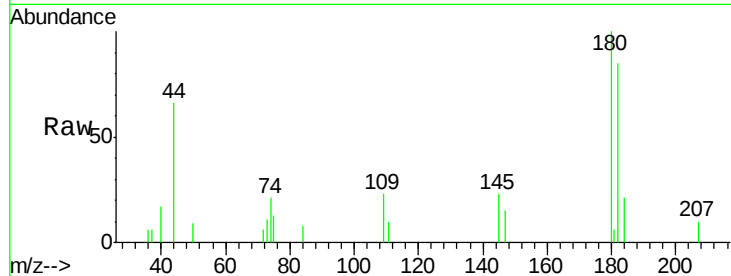
ClientSampled :

MDL07

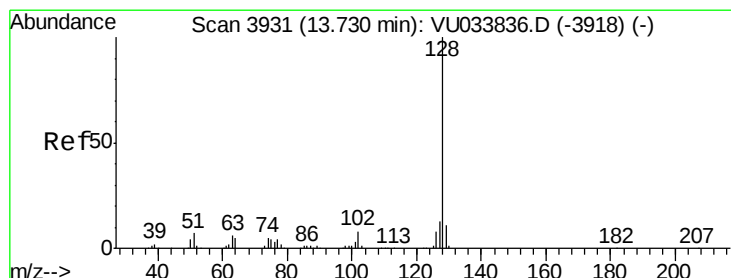
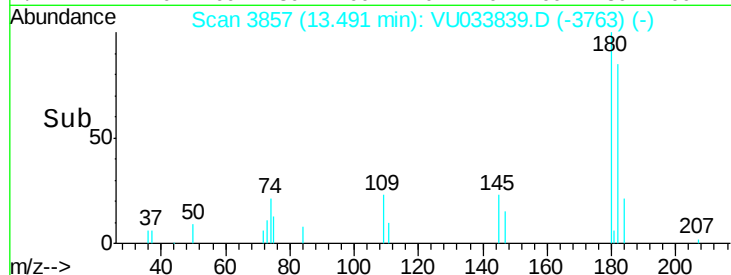
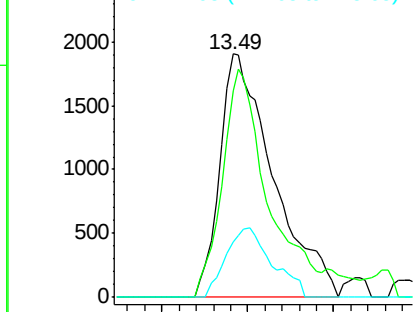
Tot Ion:	180	Resp:	4115
Ion Ratio	Lower	Upper	
180	100		
182	80.0	77.4	116.2
145	24.4	23.5	35.3

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Abundance Ion 179.90 (179.60 to 180.60): V
Ion 182.00 (181.70 to 182.70): V
Ion 144.95 (144.65 to 145.65): V



#71

Naphthalene

Concen: 0.170 ug/L m

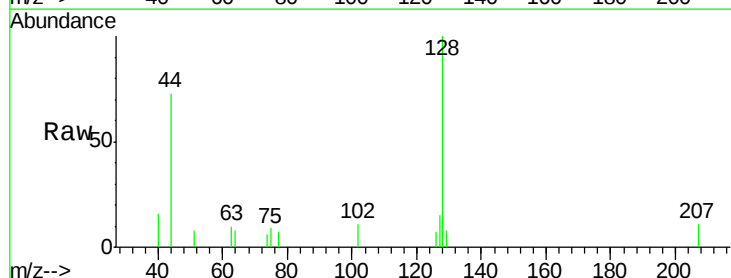
RT: 13.74 min Scan# 3934

Delta R.T. 0.01 min

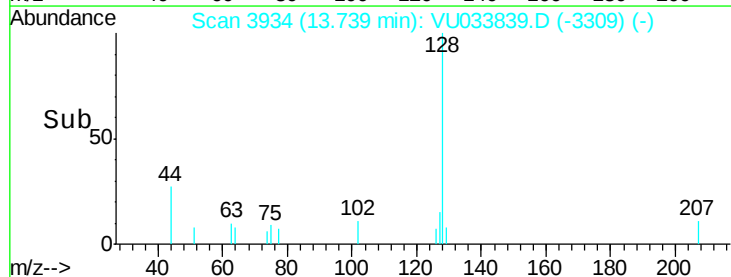
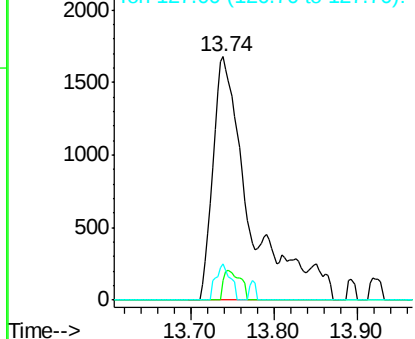
Lab File: VU033839.D

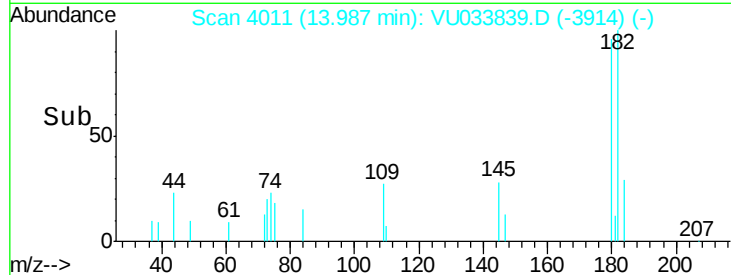
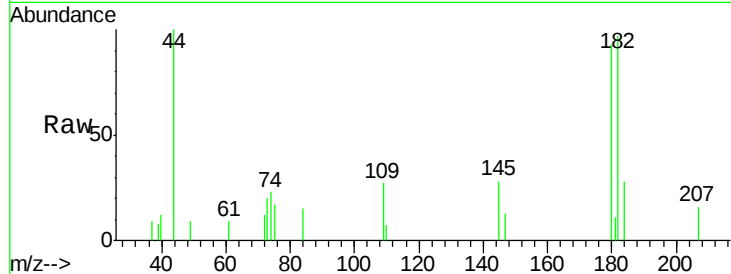
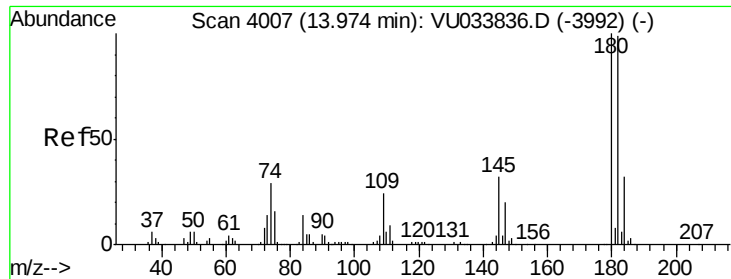
Acq: 19 Aug 2019 11:34

Tgt Ion:	128	Resp:	5250
Ion Ratio	Lower	Upper	
128	100		
129	5.3	8.5	12.7#
127	5.7	11.2	16.8#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V





#72
 1,2,3-Trichlorobenzene
 Concen: 0.176 ug/L
 RT: 13.99 min Scan# 4011
 Delta R.T. 0.01 min
 Lab File: VU033839.D
 Acq: 19 Aug 2019 11:34

Tot Ion:	180	Resp:	3326
Ion Ratio	Lower	Upper	
180	100		
182	95.1	75.7	113.5
145	24.7	24.3	36.5

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

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