

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U110118\
 Data File : VU027896.D
 Acq On : 01 Nov 2018 12:00
 Operator : MD/SY
 Sample : MDL03
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Manual Integrations
 APPROVED

MMDadoda
 11/5/2018 4:10:23 PM

Quant Time: Nov 02 07:20:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR103018WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Nov 02 08:02:52 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	85911	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	81721	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	40261	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	23835	3.55	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	71.00%
7) Chloroethane-d5	1.68	69	19481	3.76	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	75.20%
11) 1,1-Dichloroethene-d2	2.28	63	37516	2.94	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	58.80%#
20) 2-Butanone-d5	4.20	46	86918	43.41	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	86.82%
24) Chloroform-d	4.66	84	43275	3.58	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	71.60%
26) 1,2-Dichloroethane-d4	5.31	65	31219	4.50	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.00%
32) Benzene-d6	5.34	84	88182	3.94	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	78.80%
36) 1,2-Dichloropropane-d6	6.34	67	31050	3.92	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	78.40%
41) Toluene-d8	7.57	98	81345	3.82	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	76.40%
43) trans-1,3-Dichloropropene-	7.85	79	11870	3.87	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	77.40%
46) 2-Hexanone-d5	8.31	63	69335	41.34	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	82.68%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	22477	4.01	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	80.20%
64) 1,2-Dichlorobenzene-d4	11.86	152	30933	4.02	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	80.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.21	85	2479	0.293	ug/L	99
3) Chloromethane	1.33	50	2788	0.332	ug/L	92
5) Vinyl chloride	1.40	62	2672	0.320	ug/L #	75
6) Bromomethane	1.63	94	1003	0.366	ug/L	78
8) Chloroethane	1.70	64	1682m	0.344	ug/L	
9) Trichlorofluoromethane	1.89	101	3735	0.337	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	2084	0.368	ug/L #	83
12) 1,1-Dichloroethene	2.29	96	1875	0.351	ug/L #	1
13) Acetone	2.33	43	4682	3.709	ug/L	84
14) Carbon disulfide	2.48	76	5647	0.296	ug/L	96
15) Methyl Acetate	2.62	43	1164m	0.345	ug/L	
16) Methylene chloride	2.71	84	2256	0.376	ug/L	88
17) Methyl tert-butyl Ether	3.01	73	5495	0.345	ug/L #	84
18) trans-1,2-Dichloroethene	2.99	96	1777	0.313	ug/L	92
19) 1,1-Dichloroethane	3.45	63	4257	0.356	ug/L	98
21) 2-Butanone	4.29	43	6887	3.138	ug/L	80
22) cis-1,2-Dichloroethene	4.23	96	1895	0.289	ug/L	65

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 APPROVED

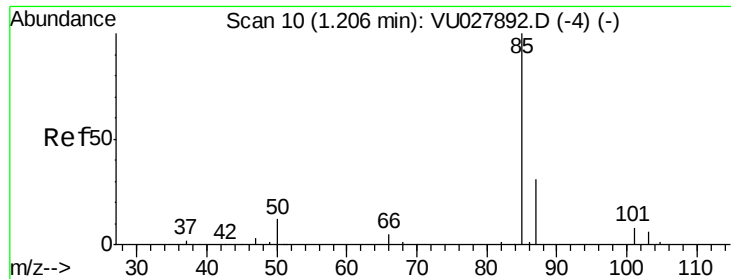
MMDadoda
 11/5/2018 4:10:23 PM

Quant Time: Nov 02 07:20:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR103018WMA.M
 Quant Title : TRACE VOA SOM01.0
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 Response via : Initial Calibration

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

23) Bromochloromethane	4.55	128	811	0.299	ug/L	84
25) Chloroform	4.68	83	9290	0.765	ug/L	95
27) 1,2-Dichloroethane	5.41	62	3027	0.357	ug/L #	78
29) 1,1,1-Trichloroethane	4.91	97	3724m	0.353	ug/L	
30) Cyclohexane	4.99	56	3851	0.311	ug/L #	84
31) Carbon tetrachloride	5.14	117	3151	0.348	ug/L	90
33) Benzene	5.39	78	8384	0.324	ug/L	100
34) Trichloroethene	6.19	95	2071	0.307	ug/L	94
35) Methylcyclohexane	6.42	83	3690	0.322	ug/L	90
37) 1,2-Dichloropropane	6.44	63	2551	0.346	ug/L #	90
38) Bromodichloromethane	6.76	83	2802	0.325	ug/L #	93
39) cis-1,3-Dichloropropene	7.28	75	3321	0.314	ug/L	97
40) 4-Methyl-2-pentanone	7.47	43	16668	3.200	ug/L #	89
42) Toluene	7.64	91	8853	0.327	ug/L	96
44) trans-1,3-Dichloropropene	7.89	75	2967m	0.327	ug/L	
45) 1,1,2-Trichloroethane	8.07	97	1371	0.302	ug/L	89
47) Tetrachloroethene	8.23	164	1876	0.363	ug/L	87
48) 2-Hexanone	8.37	43	12835	3.418	ug/L	98
49) Dibromochloromethane	8.48	129	1750	0.320	ug/L	97
50) 1,2-Dibromoethane	8.59	107	1483	0.342	ug/L #	91
51) Chlorobenzene	9.12	112	5352	0.319	ug/L	97
52) Ethylbenzene	9.25	91	9711	0.315	ug/L	97
53) m,p-xylene	9.38	106	3502	0.313	ug/L	95
54) o-xylene	9.78	106	3428	0.312	ug/L	94
55) Styrene	9.79	104	5309	0.288	ug/L	96
56) Isopropylbenzene	10.17	105	9122	0.305	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	1950	0.330	ug/L #	94
59) 1,2,3-Trichloropropane	10.50	75	1193	0.267	ug/L	93
61) Bromoform	9.96	173	873	0.295	ug/L #	77
62) 1,3-Dichlorobenzene	11.42	146	4345	0.336	ug/L	94
63) 1,4-Dichlorobenzene	11.51	146	4412	0.341	ug/L	96
65) 1,2-Dichlorobenzene	11.88	146	3754	0.307	ug/L #	91
66) 1,2-Dibromo-3-chloropropan	12.66	75	203m	0.212	ug/L	
67) 1,3,5-Trichlorobenzene	12.89	180	3087	0.296	ug/L	92
68) 1,2,4-trichlorobenzene	13.51	180	2445	0.276	ug/L	89
69) Naphthalene	13.75	128	3682	0.267	ug/L	95
70) 1,2,3-Trichlorobenzene	13.99	180	2522	0.312	ug/L	96

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



#2

Dichlorodifluoromethane

Concen: 0.293 ug/L

RT: 1.21 min Scan# 11

Delta R.T. 0.00 min

Lab File: VU027896.D

Acq: 01 Nov 2018 12:00

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tot Ion: 85 Resp: 2479

Ion Ratio Lower Upper

85 100

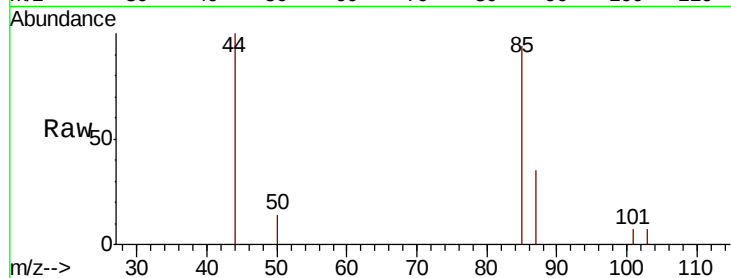
87 31.1 25.2 37.8

Manual Integrations

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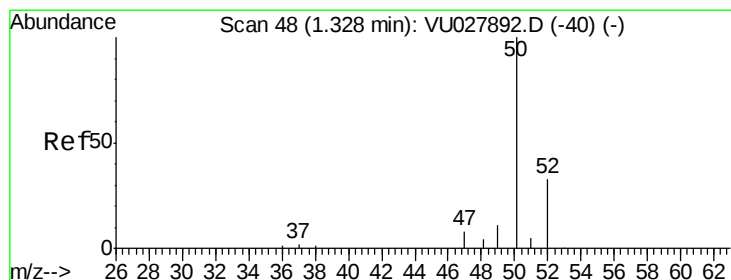
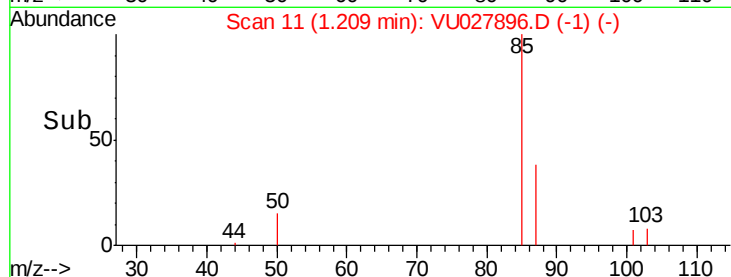
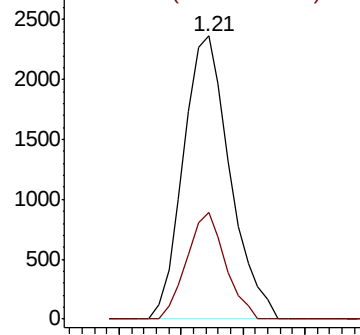
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Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 0.332 ug/L

RT: 1.33 min Scan# 49

Delta R.T. 0.00 min

Lab File: VU027896.D

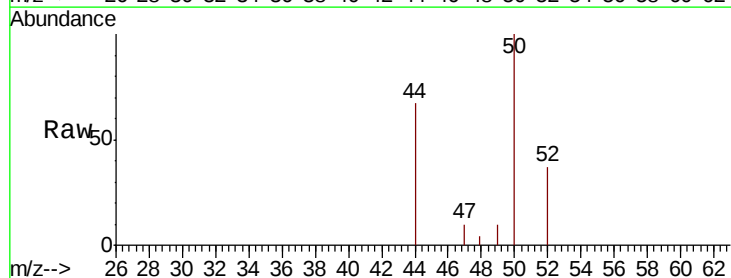
Acq: 01 Nov 2018 12:00

Tgt Ion: 50 Resp: 2788

Ion Ratio Lower Upper

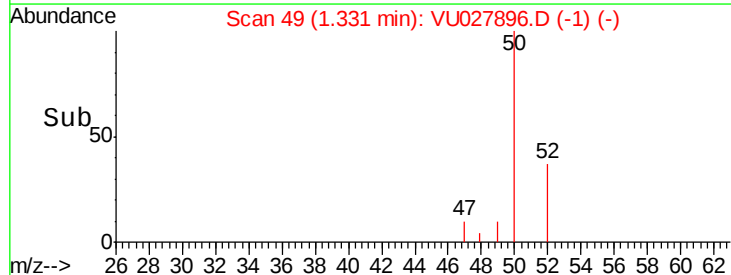
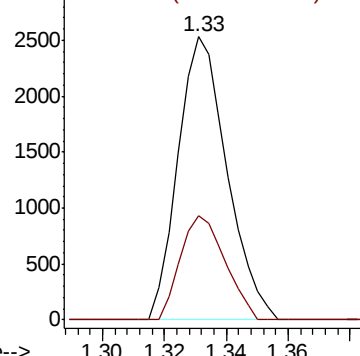
50 100

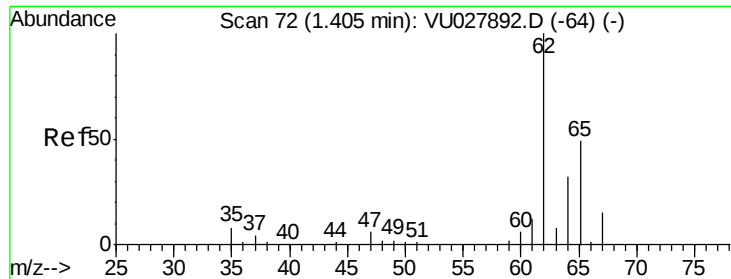
52 36.6 22.3 41.5



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 0.320 ug/L

RT: 1.40 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU027896.D

Acq: 01 Nov 2018 12:00

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tot Ion: 62 Resp: 2672

Ion Ratio Lower Upper

62 100

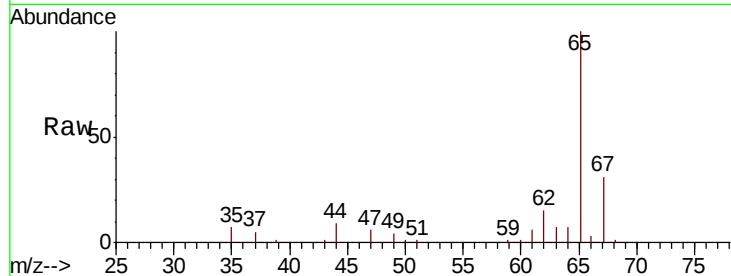
64 48.8 24.0 44.6#

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Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0

3000

2500

2000

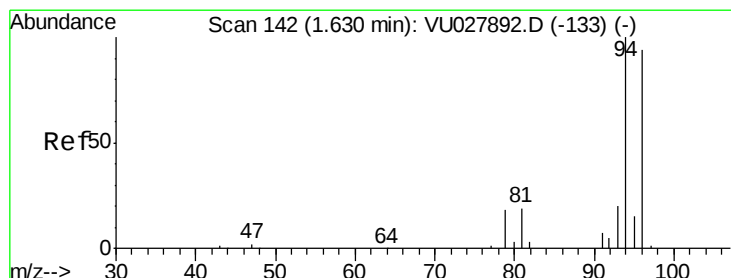
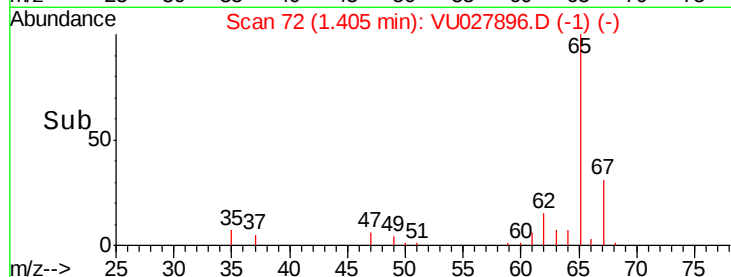
1500

1000

500

0

Time--> 1.36 1.38 1.40 1.42 1.44



#6

Bromomethane

Concen: 0.366 ug/L

RT: 1.63 min Scan# 143

Delta R.T. 0.00 min

Lab File: VU027896.D

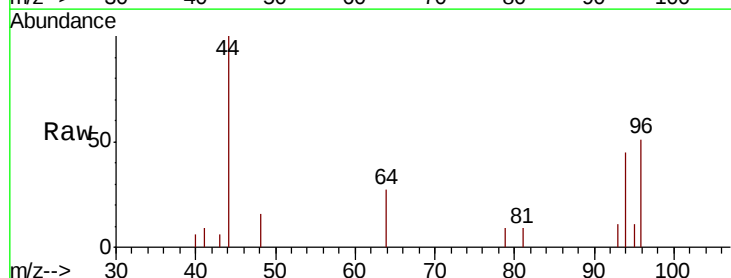
Acq: 01 Nov 2018 12:00

Tgt Ion: 94 Resp: 1003

Ion Ratio Lower Upper

94 100

96 114.3 65.0 120.6



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

1000

800

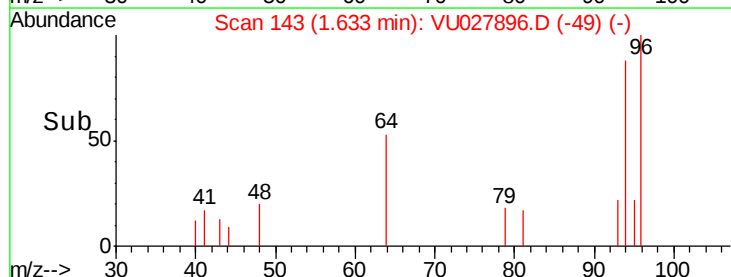
600

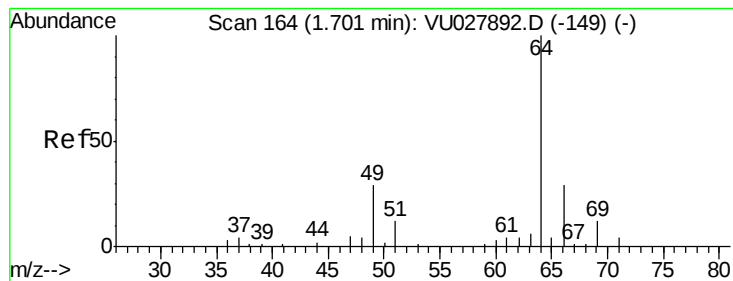
400

200

0

Time--> 1.60 1.65





#8

Chloroethane

Concen: 0.344 ug/L m

RT: 1.70 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU027896.D

Acq: 01 Nov 2018 12:00

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tot Ion: 64 Resp: 1682

Ion Ratio Lower Upper

64 100

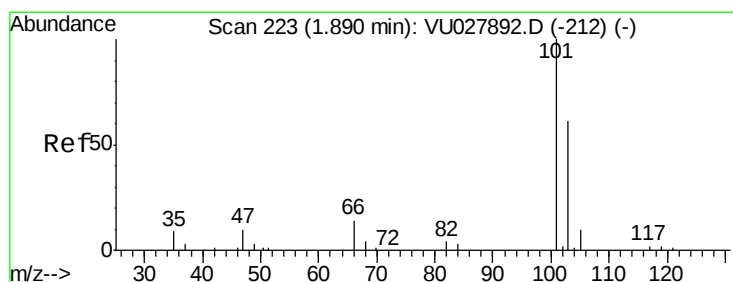
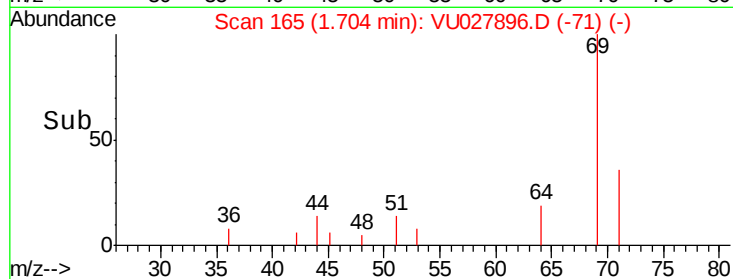
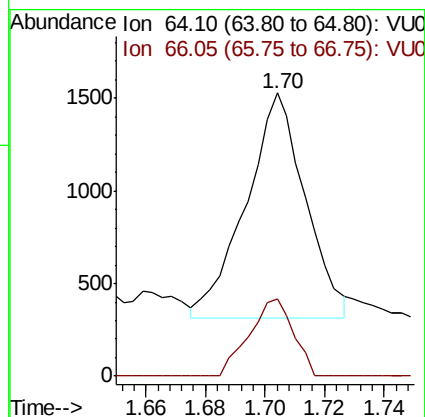
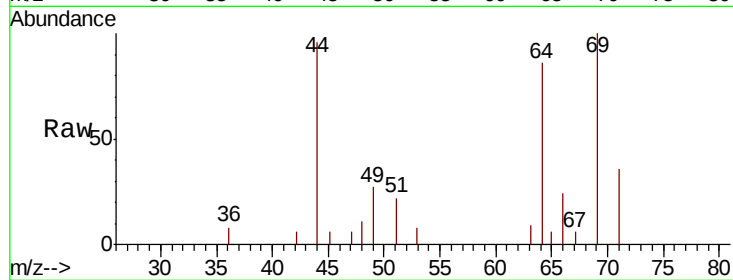
66 27.4 21.8 40.6

Manual Integrations

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#9

Trichlorofluoromethane

Concen: 0.337 ug/L

RT: 1.89 min Scan# 223

Delta R.T. -0.00 min

Lab File: VU027896.D

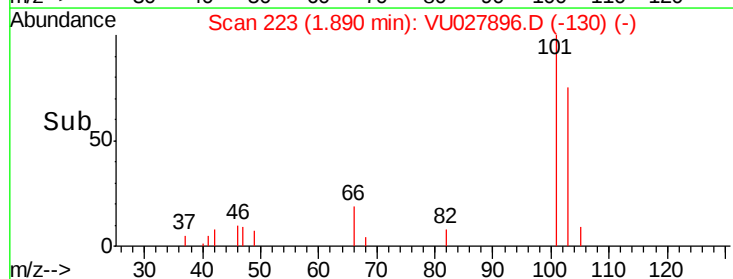
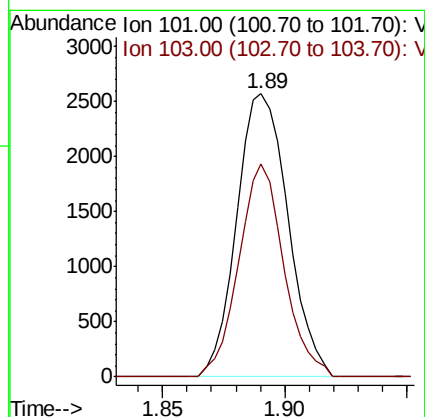
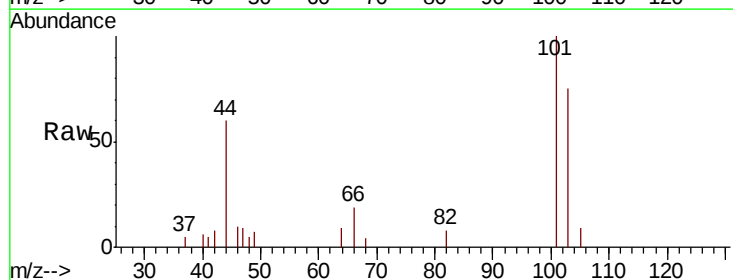
Acq: 01 Nov 2018 12:00

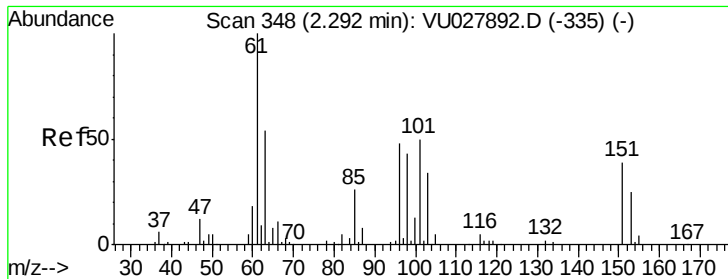
Tgt Ion: 101 Resp: 3735

Ion Ratio Lower Upper

101 100

103 66.1 51.4 77.0





#10

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

Concen: 0.368 ug/L

RT: 2.29 min Scan# 347

Delta R.T. -0.00 min

Lab File: VU027896.D

Acq: 01 Nov 2018 12:00

Instrument :

MSVOA_U

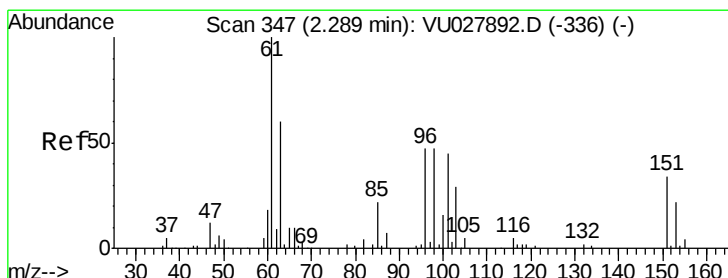
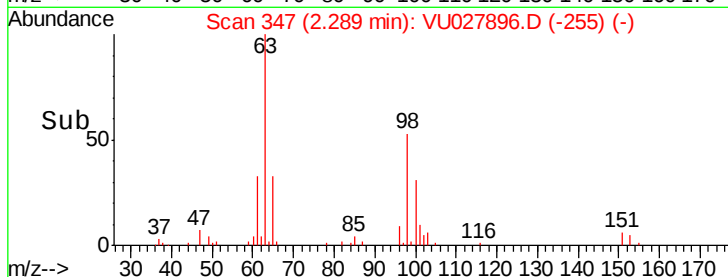
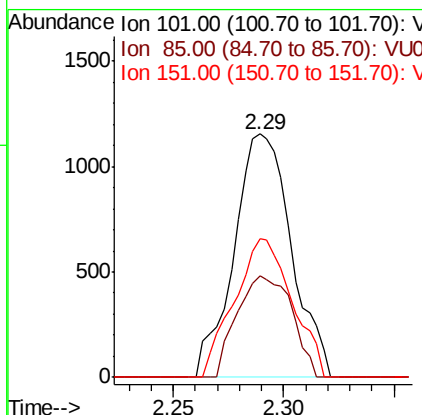
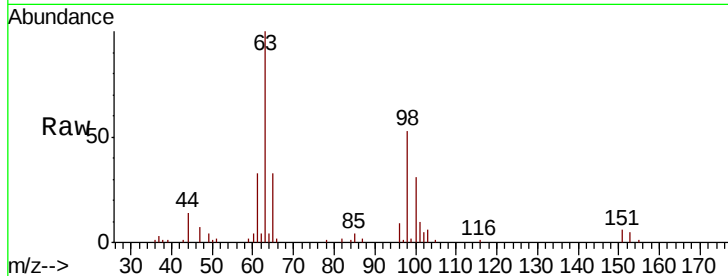
ClientSampled :

MDL03

Tot Ion:	101	Resp:	2084
Ion Ratio	Lower	Upper	
101	100		
85	39.6	37.1	55.7
151	56.9	59.9	89.9#

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 0.351 ug/L

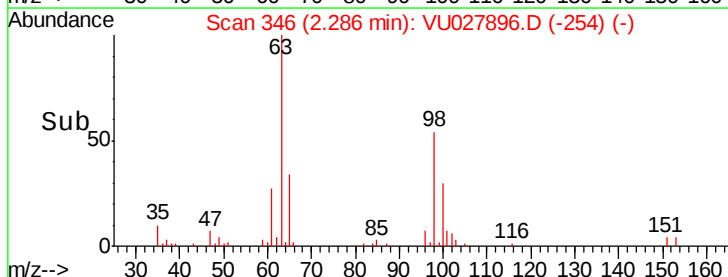
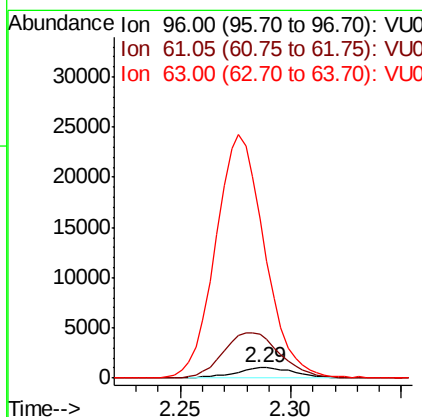
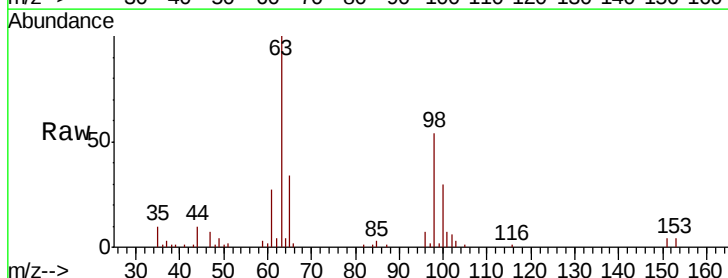
RT: 2.29 min Scan# 346

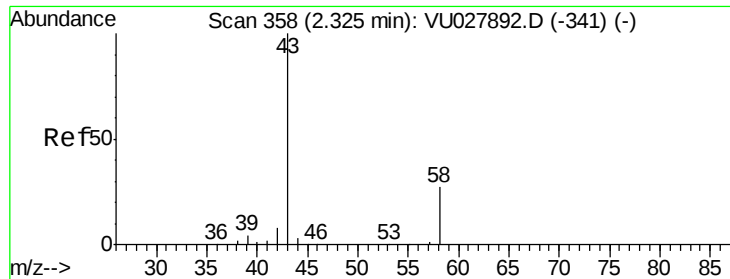
Delta R.T. -0.00 min

Lab File: VU027896.D

Acq: 01 Nov 2018 12:00

Tgt Ion:	96	Resp:	1875
Ion Ratio	Lower	Upper	
96	100		
61	414.3	141.1	262.1#
63	1517.1	113.0	209.9#





#13

Acetone

Concen: 3.709 ug/L

RT: 2.33 min Scan# 359

Delta R.T. 0.00 min

Lab File: VU027896.D

Acq: 01 Nov 2018 12:00

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tot Ion: 43 Resp: 4682

Ion Ratio Lower Upper

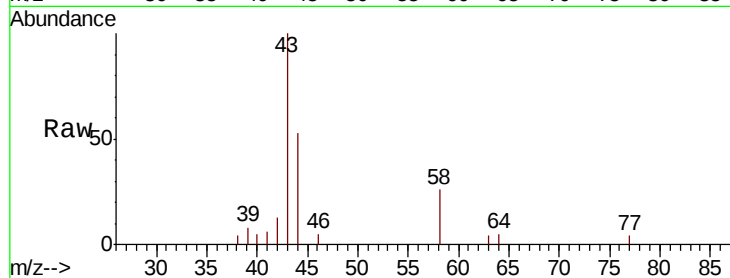
43 100

58 22.1 0.0 61.4

Manual Integrations
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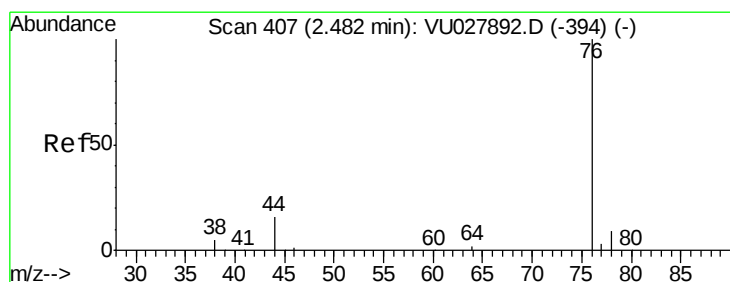
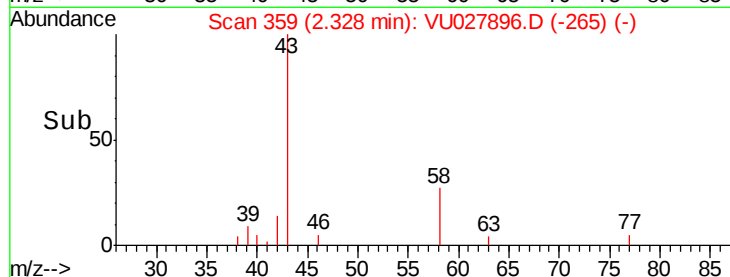
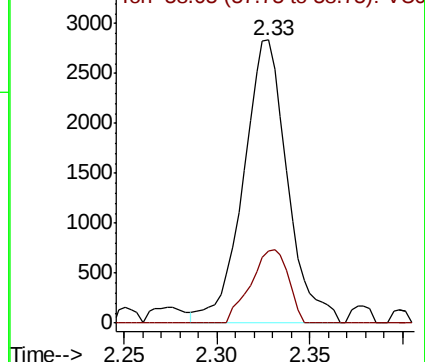
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Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#14

Carbon disulfide

Concen: 0.296 ug/L

RT: 2.48 min Scan# 406

Delta R.T. -0.00 min

Lab File: VU027896.D

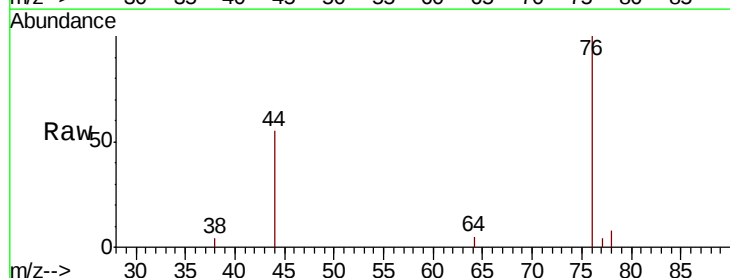
Acq: 01 Nov 2018 12:00

Tgt Ion: 76 Resp: 5647

Ion Ratio Lower Upper

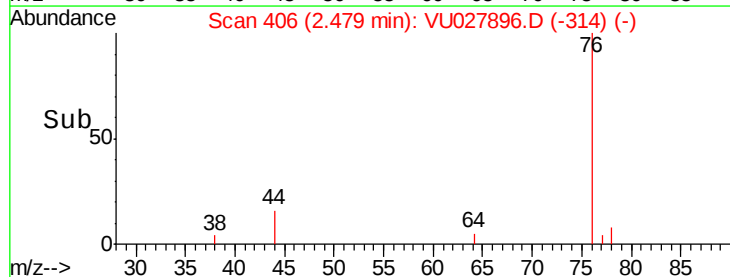
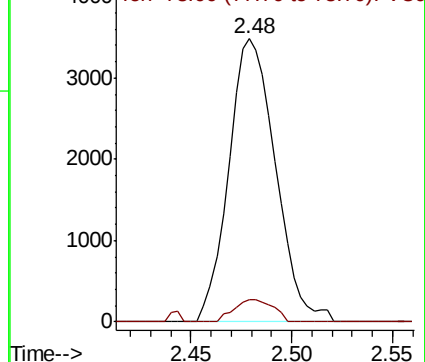
76 100

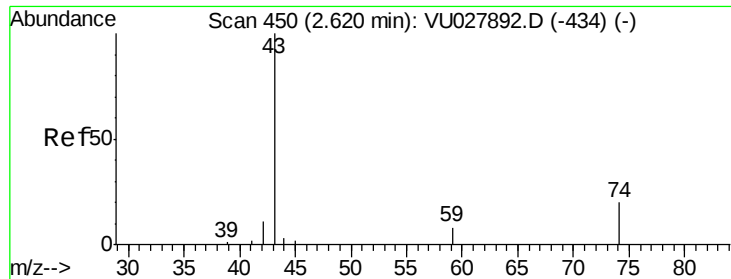
78 8.0 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0





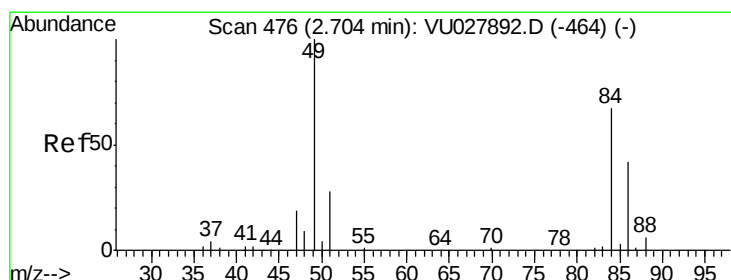
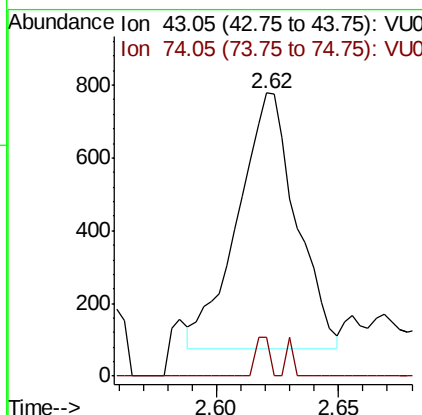
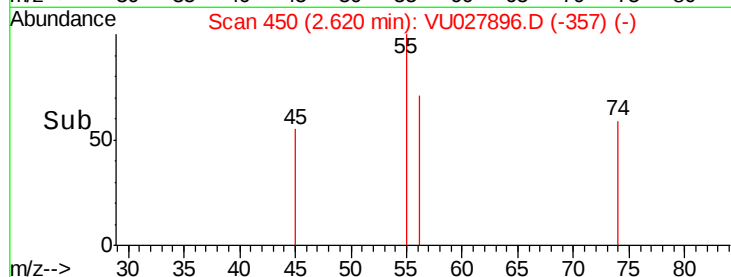
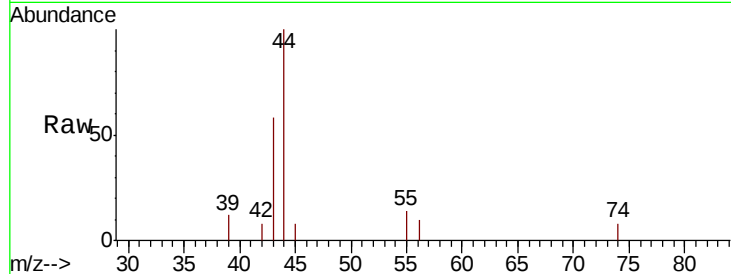
#15
Methvl Acetate
Concen: 0.345 ug/L m
RT: 2.62 min Scan# 450
Delta R.T. 0.00 min
Lab File: VU027896.D
Acq: 01 Nov 2018 12:00

Instrument :
MSVOA_U
ClientSampled :
MDL03

Tot Ion: 43 Resp: 1164
Ion Ratio Lower Upper
43 100
74 3.6 14.9 22.3#

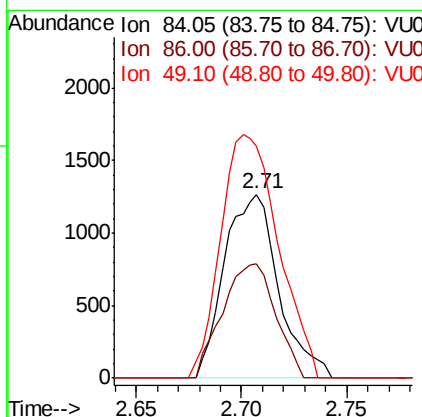
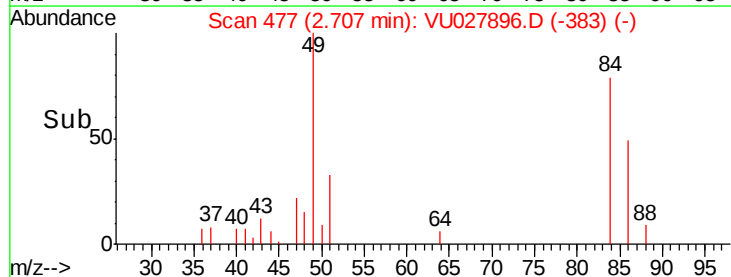
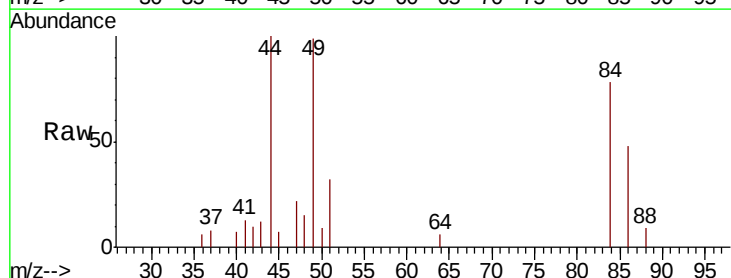
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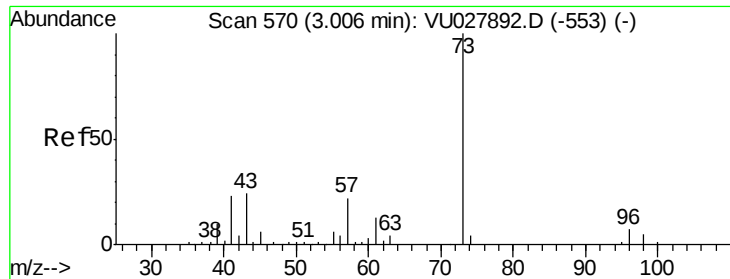
MMDadoda
11/5/2018 4:10:23 PM



#16
Methylene chloride
Concen: 0.376 ug/L
RT: 2.71 min Scan# 477
Delta R.T. 0.00 min
Lab File: VU027896.D
Acq: 01 Nov 2018 12:00

Tgt Ion: 84 Resp: 2256
Ion Ratio Lower Upper
84 100
86 61.9 46.7 86.7
49 125.9 101.3 188.1





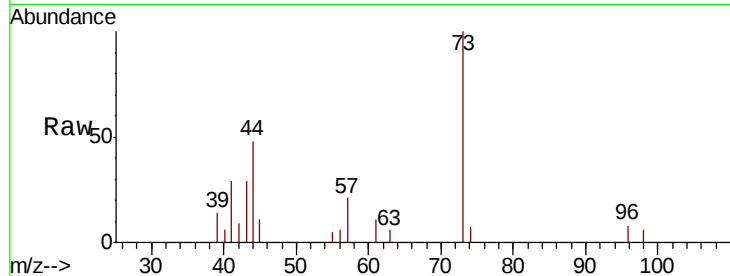
#17
Methvl tert-butvl Ether
Concen: 0.345 ug/L
RT: 3.01 min Scan# 570
Delta R.T. 0.00 min
Lab File: VU027896.D
Acq: 01 Nov 2018 12:00

Instrument :
MSVOA_U
ClientSampleId :
MDL03

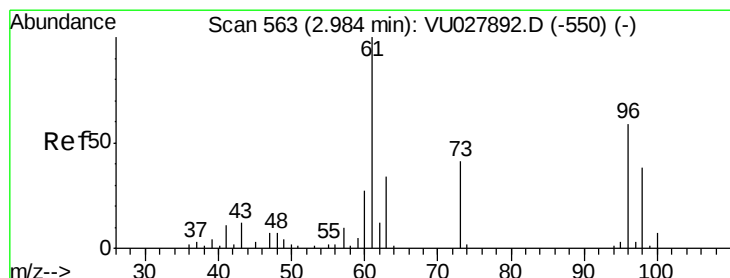
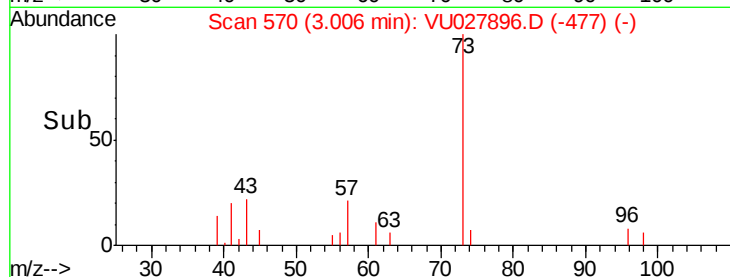
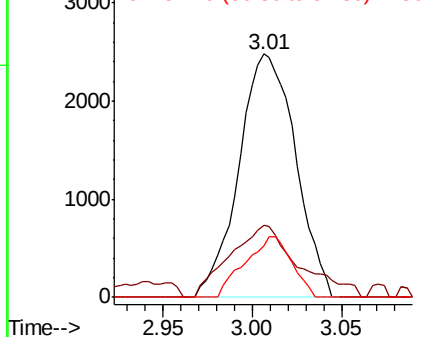
Tot Ion	Ratio	Lower	Upper
73	100		
43	35.9	18.7	28.1#
57	20.4	18.7	28.1

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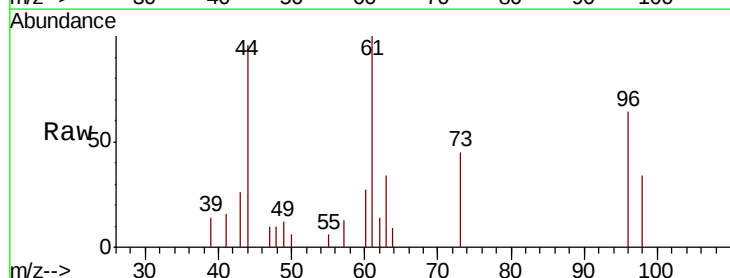


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

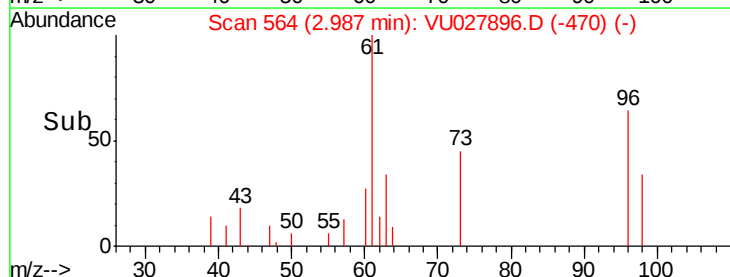
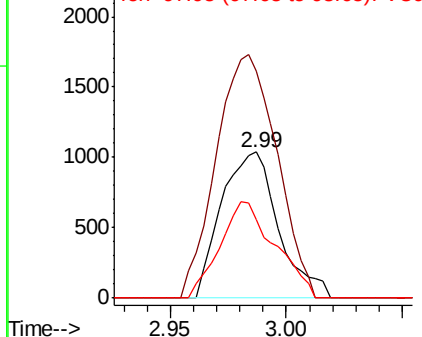


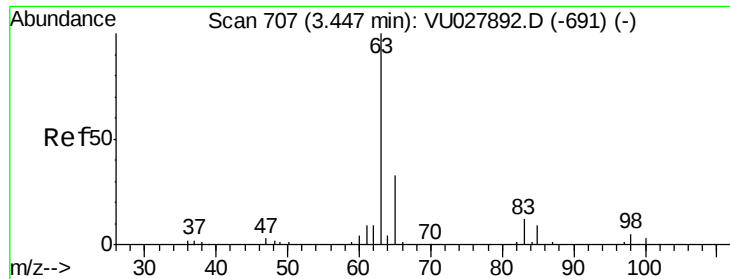
#18
trans-1,2-Dichloroethene
Concen: 0.313 ug/L
RT: 2.99 min Scan# 564
Delta R.T. 0.00 min
Lab File: VU027896.D
Acq: 01 Nov 2018 12:00

Tgt Ion	Ratio	Lower	Upper
96	100		
61	155.5	115.2	214.0
98	53.6	44.0	81.8



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0





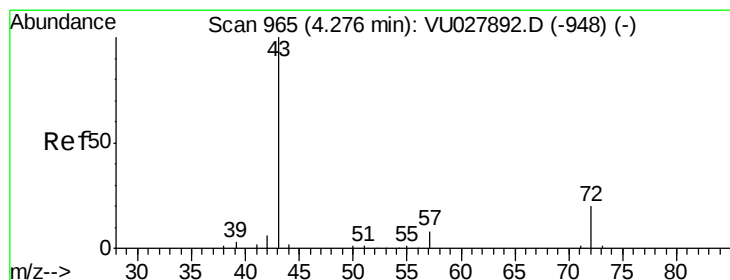
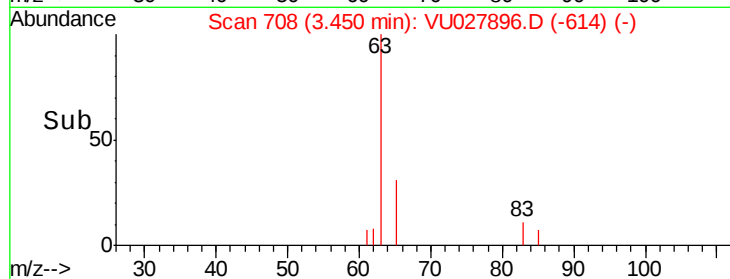
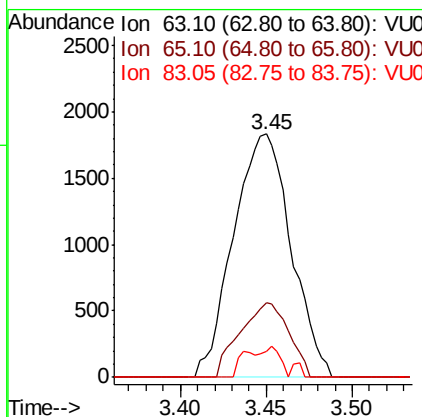
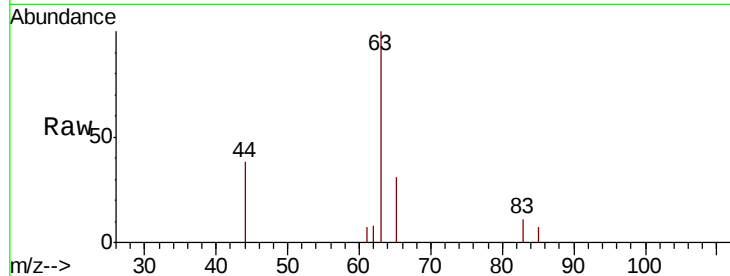
#19
 1,1-Dichloroethane
 Concen: 0.356 ug/L
 RT: 3.45 min Scan# 708
 Delta R.T. 0.00 min
 Lab File: VU027896.D
 Acq: 01 Nov 2018 12:00

Instrument :
 MSVOA_U
 ClientSampled :
 MDL03

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.9	21.8	40.4
83	10.8	9.4	17.4

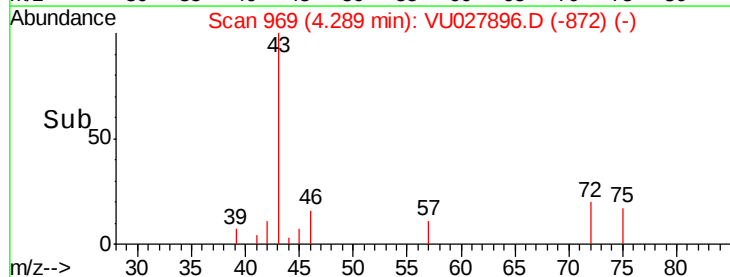
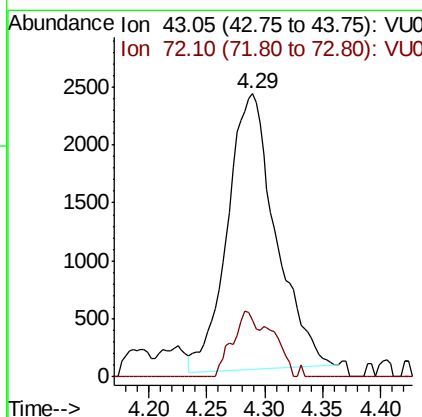
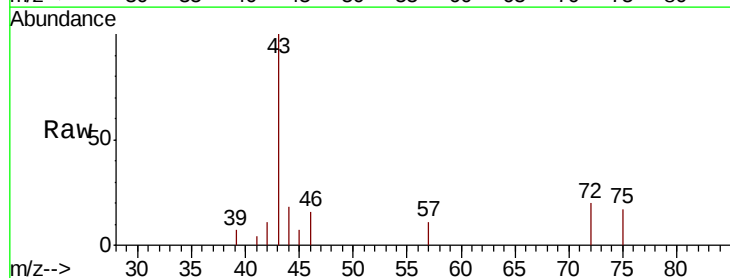
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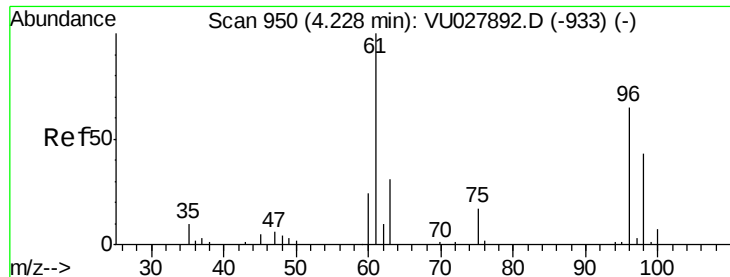
MMDadoda
 11/5/2018 4:10:23 PM



#21
 2-Butanone
 Concen: 3.138 ug/L
 RT: 4.29 min Scan# 969
 Delta R.T. 0.01 min
 Lab File: VU027896.D
 Acq: 01 Nov 2018 12:00

Tgt Ion	Ratio	Lower	Upper
43	100		
72	12.3	10.9	32.9





#22

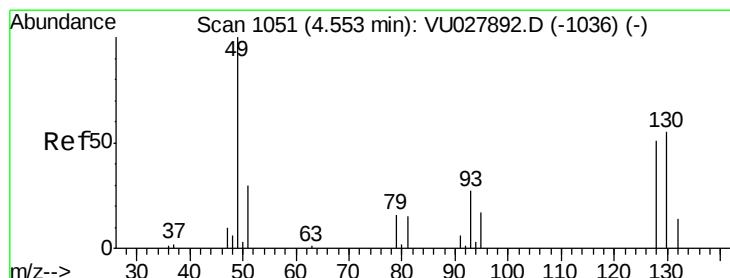
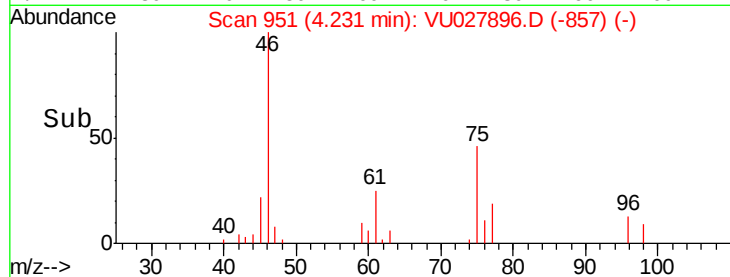
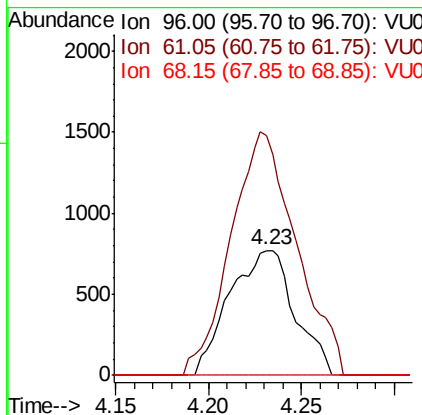
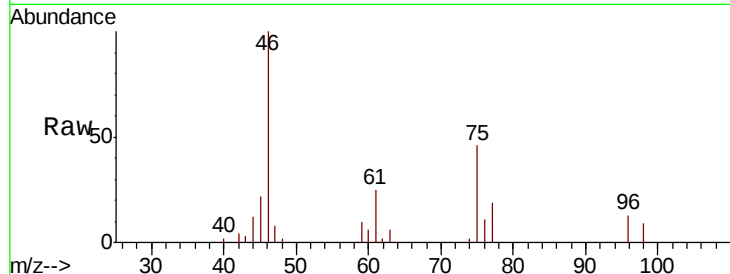
cis-1,2-Dichloroethene
Concen: 0.289 ug/L
RT: 4.23 min Scan# 951
Delta R.T. 0.00 min
Lab File: VU027896.D
Acq: 01 Nov 2018 12:00

Instrument :
MSVOA_U
ClientSampled :
MDL03

Tot Ion	Ratio	Lower	Upper
96	100		
61	192.7	104.0	193.2
68	0.0	0.0	0.0

Manual Integrations
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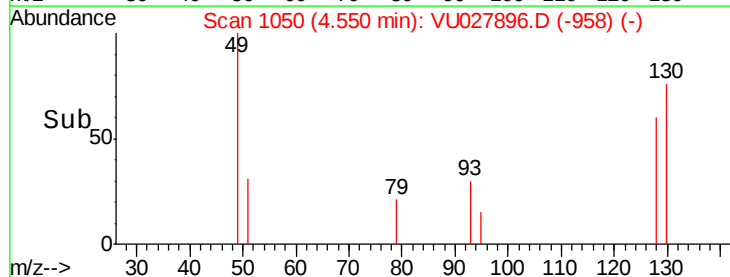
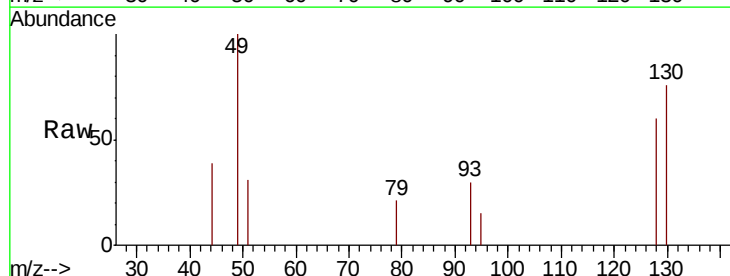
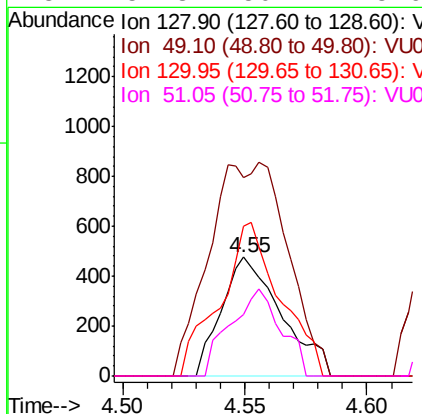
MMDadoda
11/5/2018 4:10:23 PM

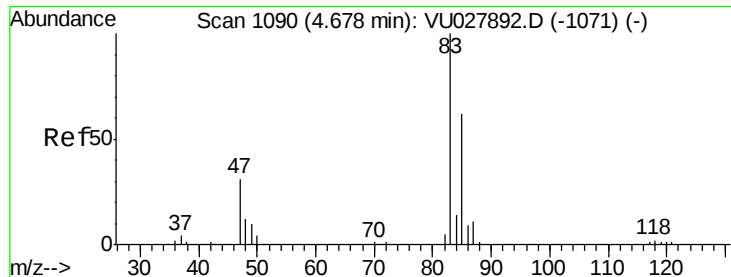


#23

Bromochloromethane
Concen: 0.299 ug/L
RT: 4.55 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VU027896.D
Acq: 01 Nov 2018 12:00

Tgt Ion	Ratio	Lower	Upper
128	100		
49	166.8	142.0	263.8
130	126.5	86.1	159.9
51	51.3	50.4	75.6





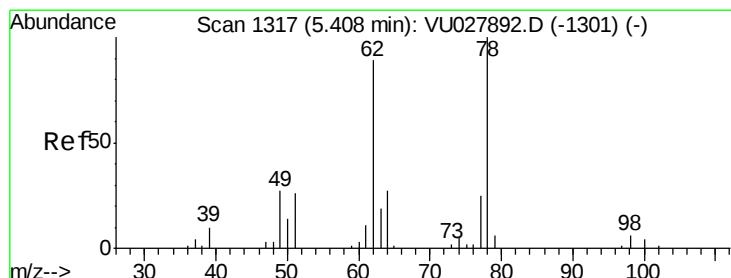
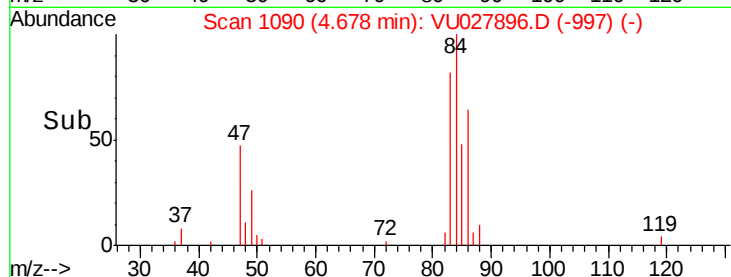
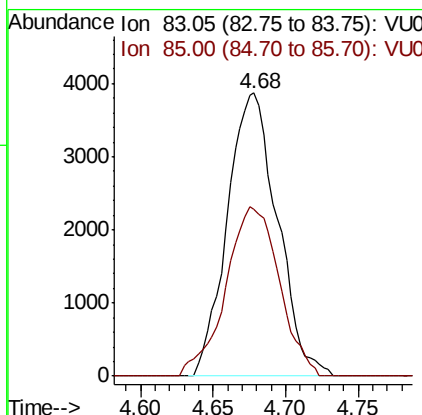
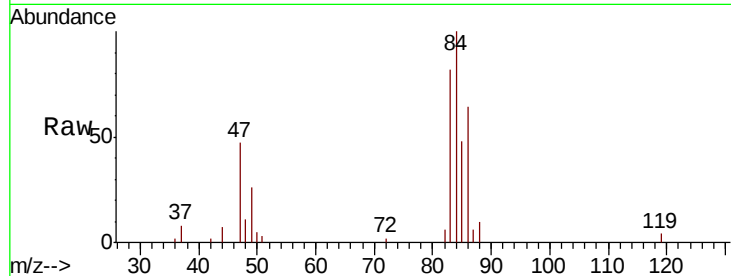
#25
Chloroform
Concen: 0.765 ug/L
RT: 4.68 min Scan# 1090
Delta R.T. -0.00 min
Lab File: VU027896.D
Acq: 01 Nov 2018 12:00

Instrument :
MSVOA_U
ClientSampled :
MDL03

Tot Ion: 83 Resp: 9290
Ion Ratio Lower Upper
83 100
85 59.1 44.0 81.8

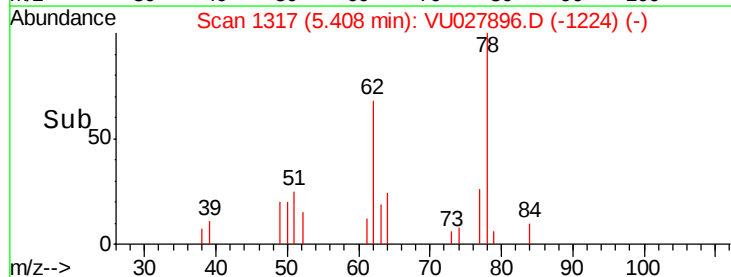
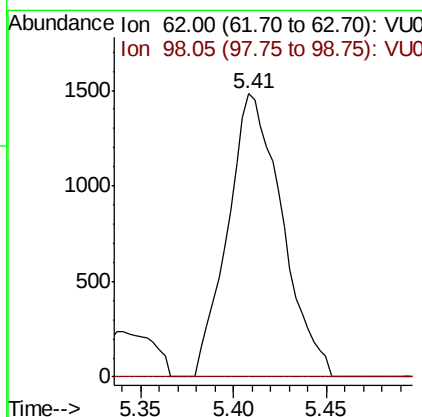
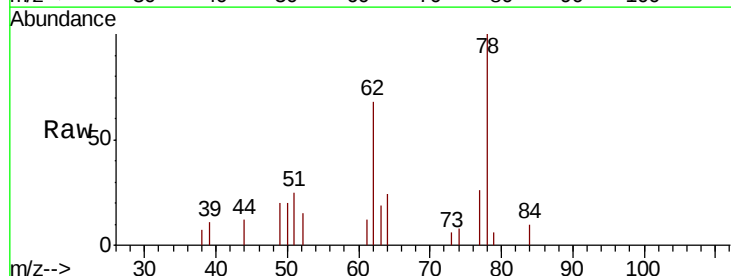
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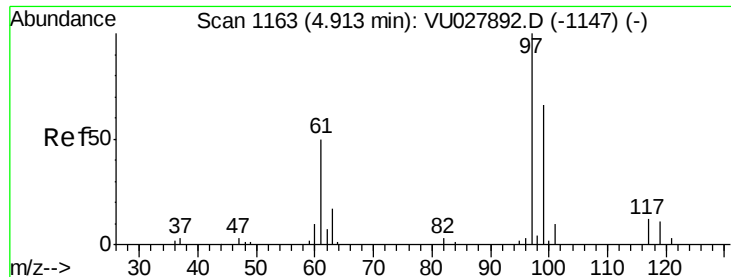
MMDadoda
11/5/2018 4:10:23 PM



#27
1,2-Dichloroethane
Concen: 0.357 ug/L
RT: 5.41 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VU027896.D
Acq: 01 Nov 2018 12:00

Tgt Ion: 62 Resp: 3027
Ion Ratio Lower Upper
62 100
98 0.0 6.3 9.5#





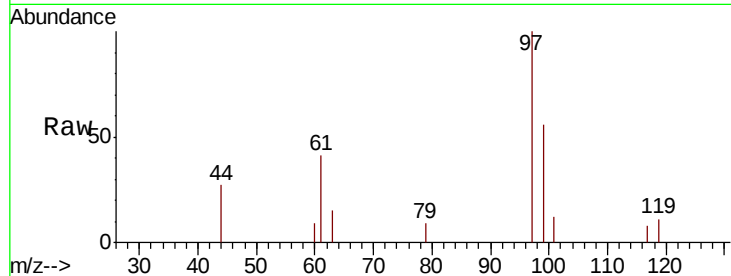
#29
 1,1,1-Trichloroethane
 Concen: 0.353 ug/L m
 RT: 4.91 min Scan# 1163
 Delta R.T. -0.00 min
 Lab File: VU027896.D
 Acq: 01 Nov 2018 12:00

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

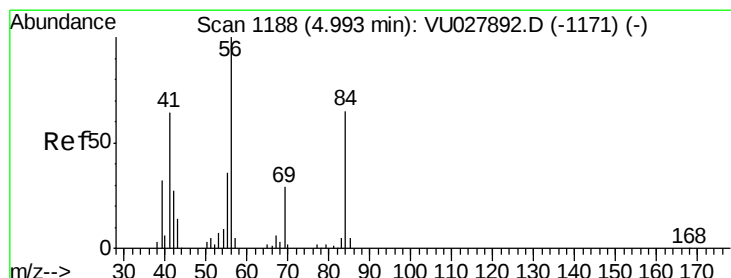
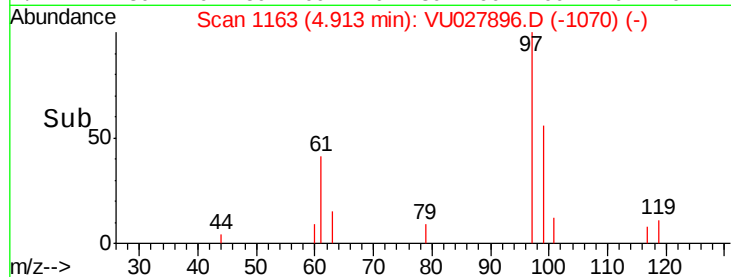
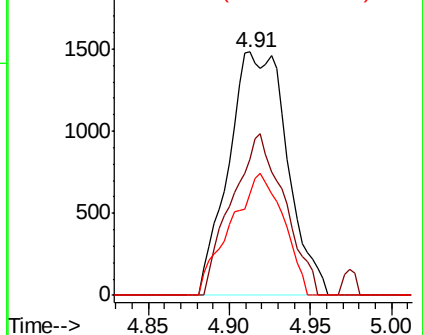
Tot Ion	Ratio	Lower	Upper
97	100		
99	59.5	50.6	76.0
61	45.0	35.8	53.6

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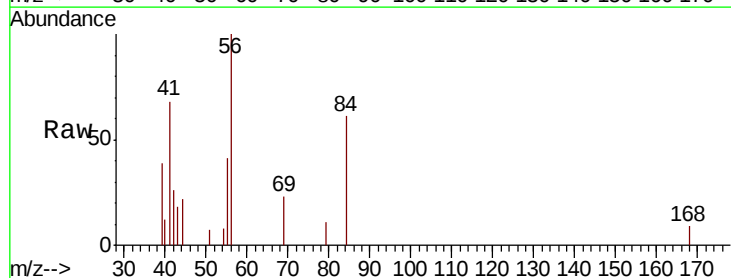


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

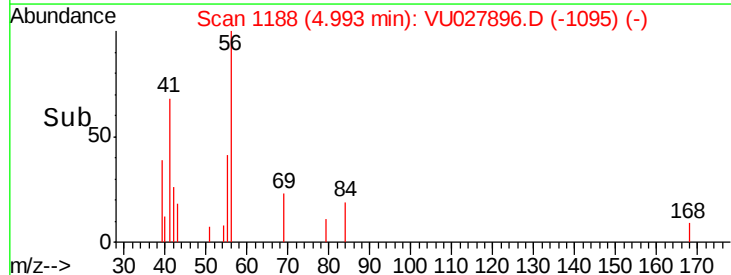
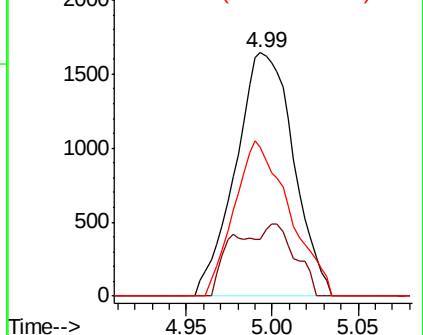


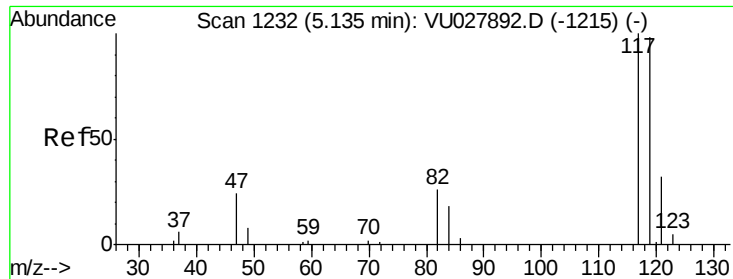
#30
 Cyclohexane
 Concen: 0.311 ug/L
 RT: 4.99 min Scan# 1188
 Delta R.T. -0.00 min
 Lab File: VU027896.D
 Acq: 01 Nov 2018 12:00

Tgt Ion	Ratio	Lower	Upper
56	100		
69	17.5	22.7	34.1#
84	61.0	58.1	87.1



Abundance Ion 56.10 (55.80 to 56.80): VU0
 Ion 69.15 (68.85 to 69.85): VU0
 Ion 84.15 (83.85 to 84.85): VU0





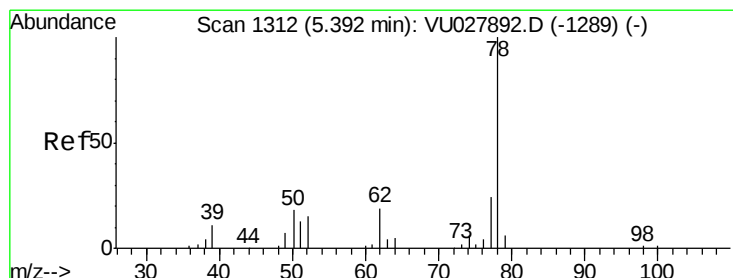
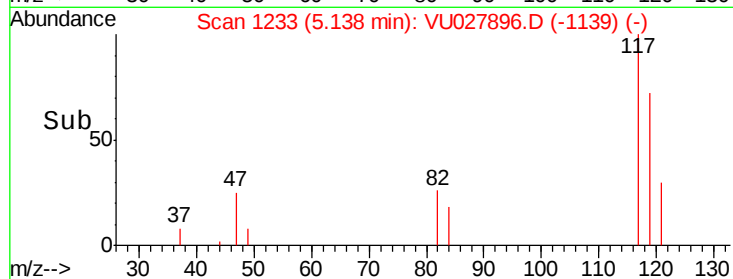
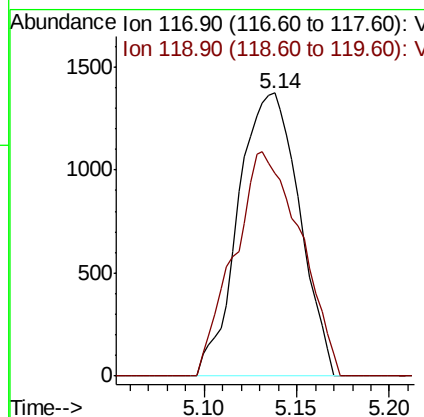
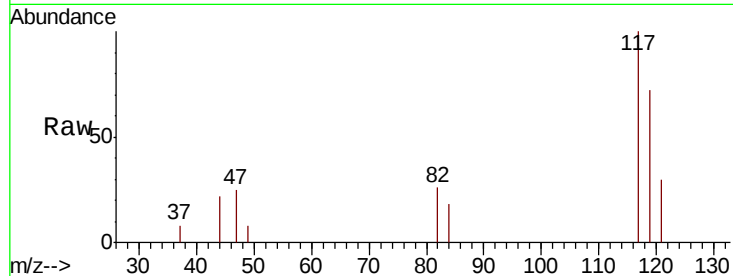
#31
Carbon tetrachloride
Concen: 0.348 ug/L
RT: 5.14 min Scan# 1233
Delta R.T. 0.00 min
Lab File: VU027896.D
Acq: 01 Nov 2018 12:00

Instrument :
MSVOA_U
ClientSampled :
MDL03

Tot Ion:117 Resp: 3151
Ion Ratio Lower Upper
117 100
119 86.5 77.1 115.7

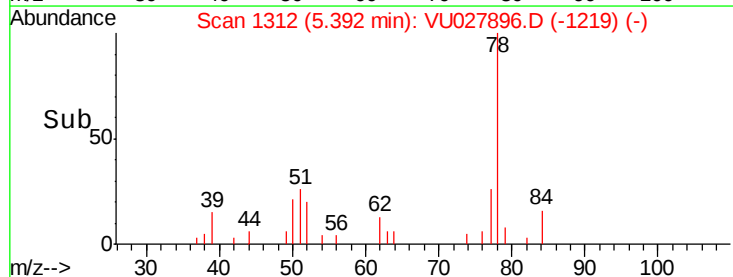
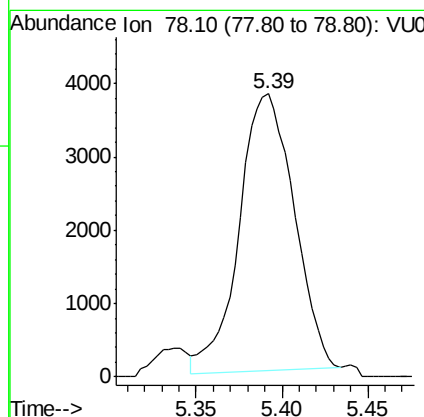
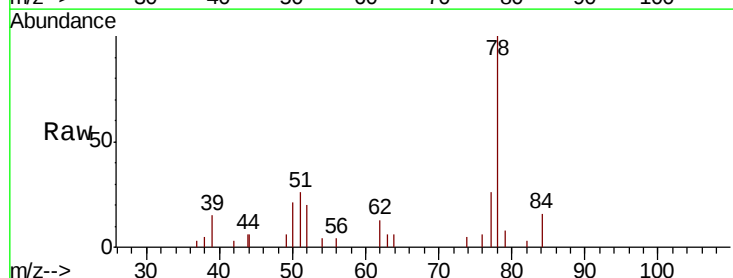
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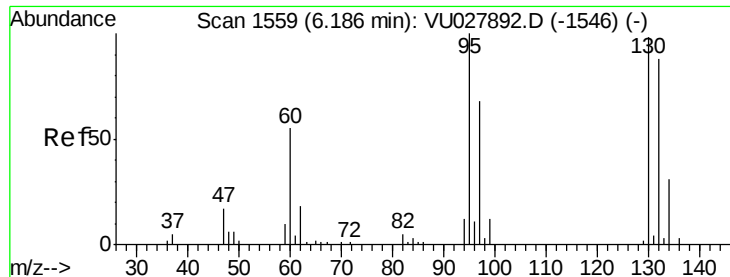
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11/5/2018 4:10:23 PM



#33
Benzene
Concen: 0.324 ug/L
RT: 5.39 min Scan# 1312
Delta R.T. -0.00 min
Lab File: VU027896.D
Acq: 01 Nov 2018 12:00

Tgt Ion: 78 Resp: 8384





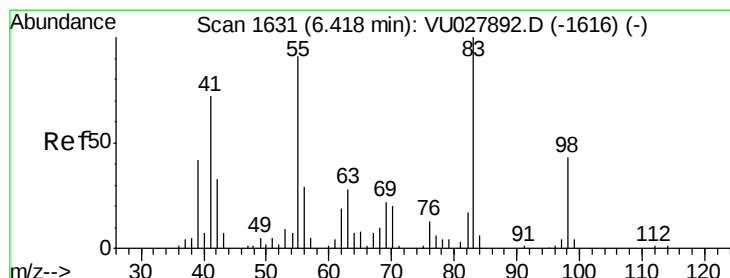
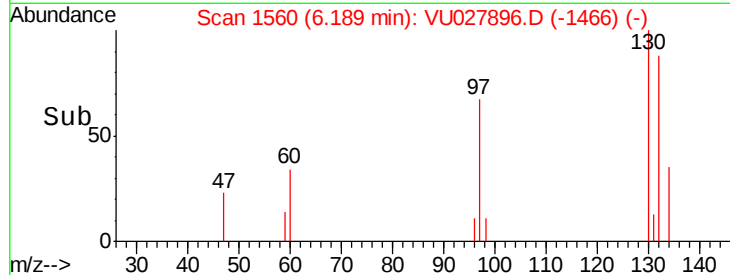
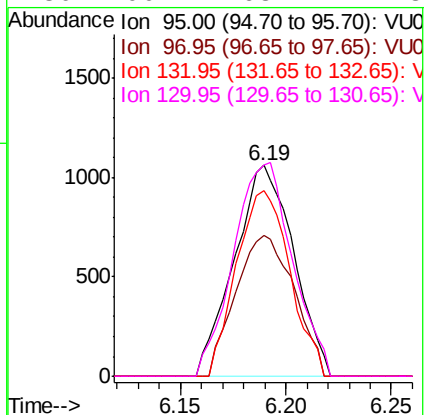
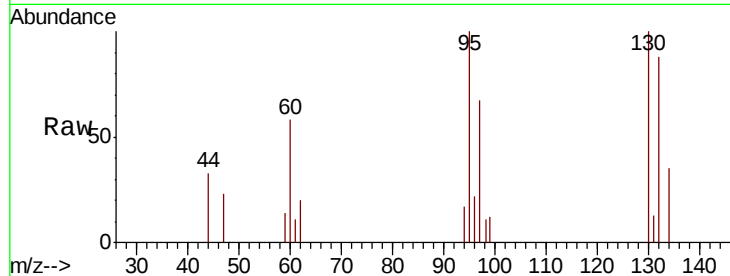
#34
 Trichloroethene
 Concen: 0.307 ug/L
 RT: 6.19 min Scan# 1560
 Delta R.T. 0.00 min
 Lab File: VU027896.D
 Acq: 01 Nov 2018 12:00

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion: 95 Resp: 2071
 Ion Ratio Lower Upper
 95 100
 97 66.6 44.0 81.6
 132 87.9 63.3 117.5
 130 100.2 63.1 117.3

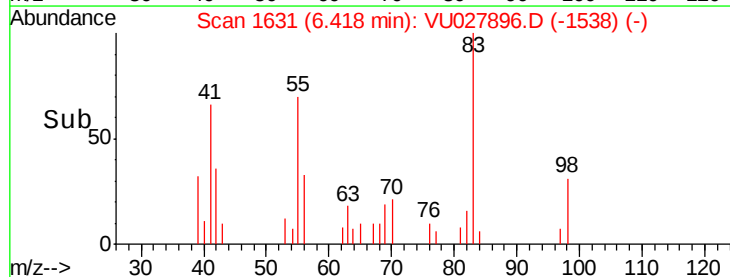
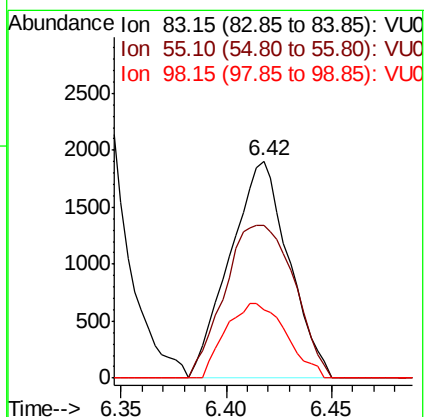
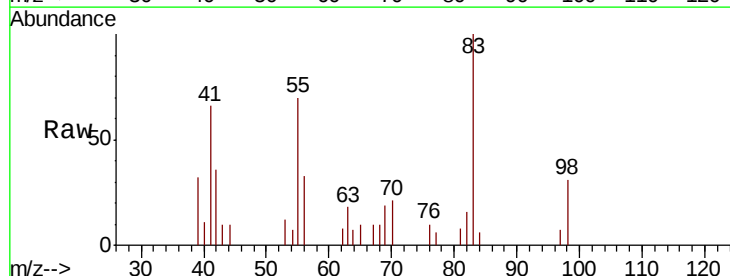
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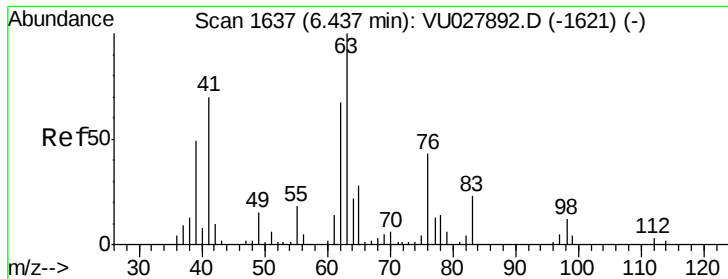
MMDadoda
 11/5/2018 4:10:23 PM



#35
 Methylcyclohexane
 Concen: 0.322 ug/L
 RT: 6.42 min Scan# 1631
 Delta R.T. -0.00 min
 Lab File: VU027896.D
 Acq: 01 Nov 2018 12:00

Tgt Ion: 83 Resp: 3690
 Ion Ratio Lower Upper
 83 100
 55 83.2 73.4 110.0
 98 35.4 35.3 52.9





#37

1,2-Dichloropropane

Concen: 0.346 ug/L

RT: 6.44 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VU027896.D

Acq: 01 Nov 2018 12:00

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tot Ion: 63 Resp: 2551

Ion Ratio Lower Upper

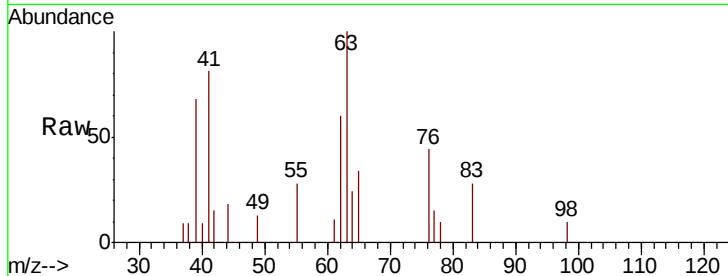
63 100

112 0.0 2.6 3.8#

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Abundance Ion 63.10 (62.80 to 63.80): VU027892.D (-1621) (-)

Ion 112.10 (111.80 to 112.80): VU027892.D (-1621) (-)

6.44

1500

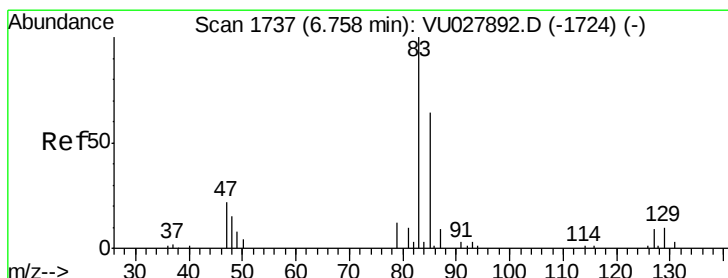
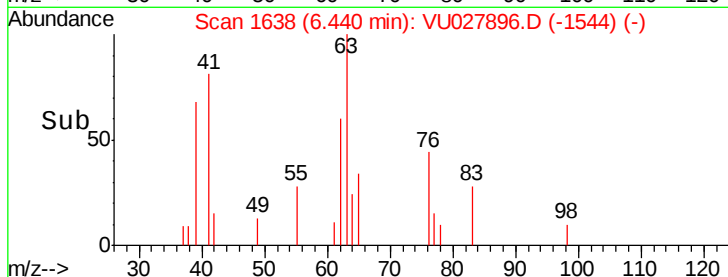
1000

500

0

6.40 6.45 6.50

Time-->



#38

Bromodichloromethane

Concen: 0.325 ug/L

RT: 6.76 min Scan# 1737

Delta R.T. -0.00 min

Lab File: VU027896.D

Acq: 01 Nov 2018 12:00

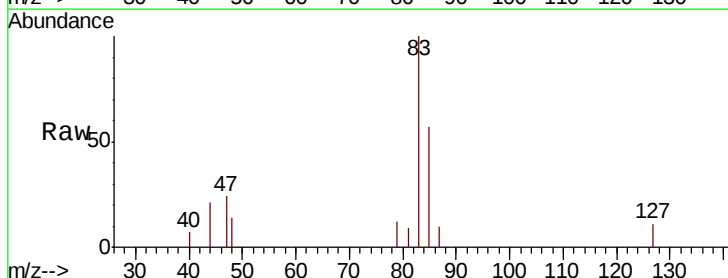
Tgt Ion: 83 Resp: 2802

Ion Ratio Lower Upper

83 100

85 57.2 43.8 81.4

127 10.6 6.4 9.6#



Abundance Ion 82.95 (82.65 to 83.65): VU027892.D (-1724) (-)

Ion 85.00 (84.70 to 85.70): VU027892.D (-1724) (-)

Ion 126.90 (126.60 to 127.60): VU027892.D (-1724) (-)

6.76

2000

1500

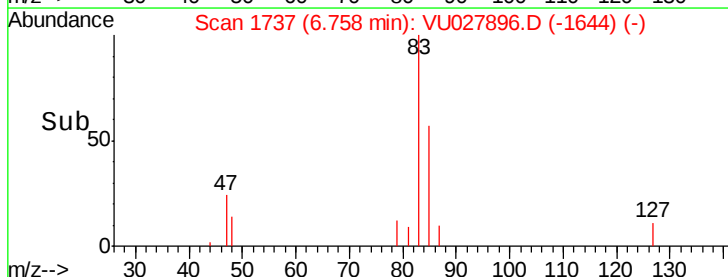
1000

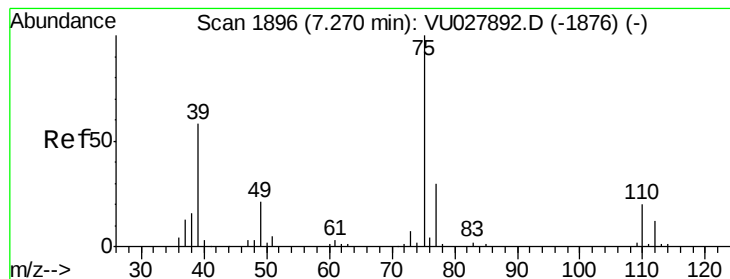
500

0

6.70 6.75 6.80

Time-->





#39

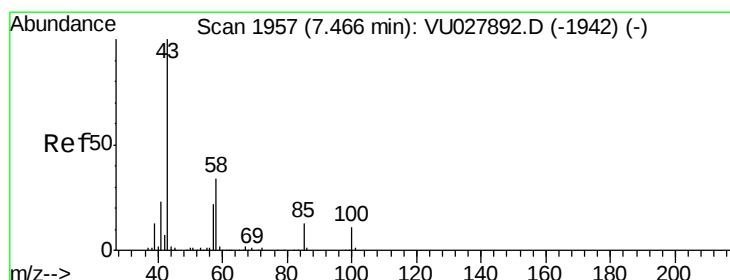
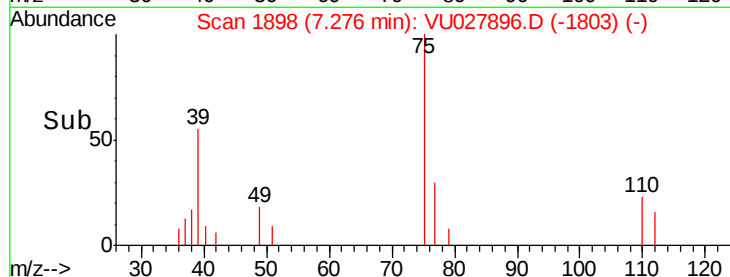
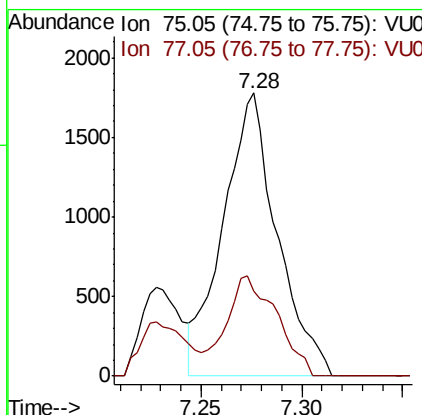
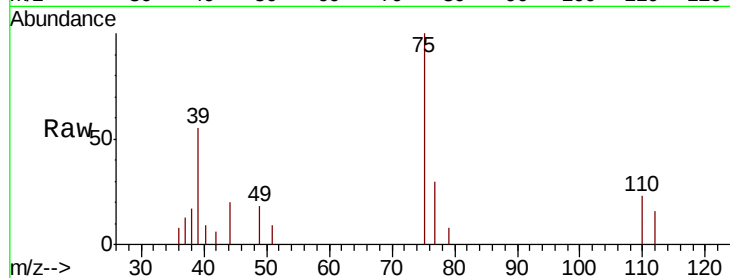
cis-1,3-Dichloropropene
 Concen: 0.314 ug/L
 RT: 7.28 min Scan# 1898
 Delta R.T. 0.01 min
 Lab File: VU027896.D
 Acq: 01 Nov 2018 12:00

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
75	100		
77	30.1	22.2	41.2

Manual Integrations
 APPROVED

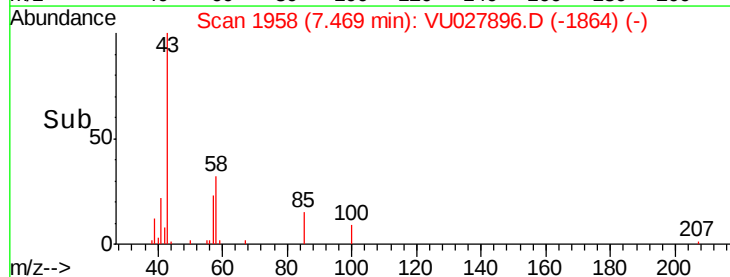
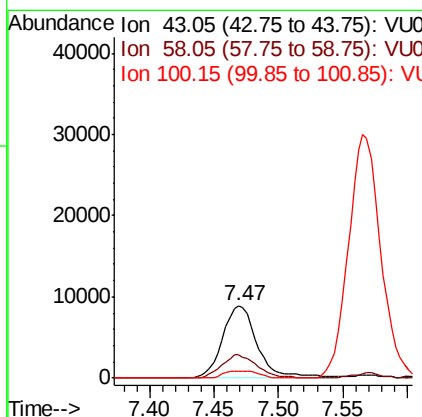
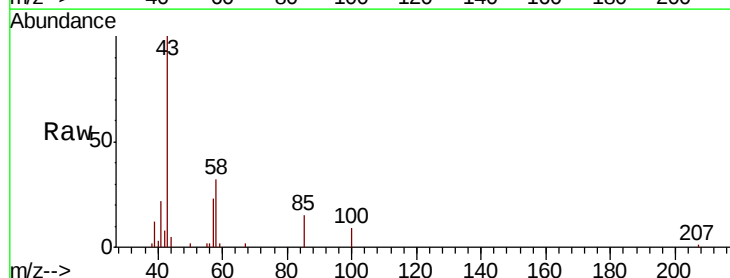
MMDadoda
 11/5/2018 4:10:23 PM

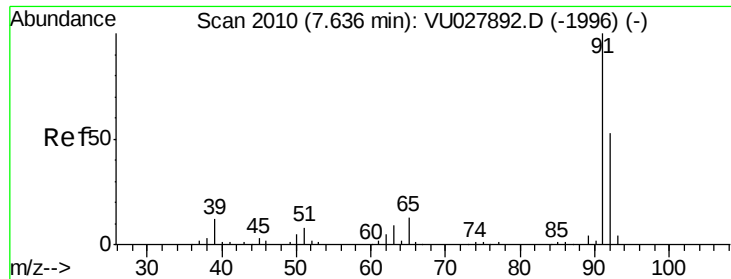


#40

4-Methyl-2-pentanone
 Concen: 3.200 ug/L
 RT: 7.47 min Scan# 1958
 Delta R.T. 0.00 min
 Lab File: VU027896.D
 Acq: 01 Nov 2018 12:00

Tgt Ion	Ratio	Lower	Upper
43	100		
58	32.5	28.5	42.7
100	0.0	8.8	13.2#





#42

Toluene

Concen: 0.327 ug/L

RT: 7.64 min Scan# 2011

Delta R.T. 0.00 min

Lab File: VU027896.D

Acq: 01 Nov 2018 12:00

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tot Ion: 91 Resp: 8853

Ion Ratio Lower Upper

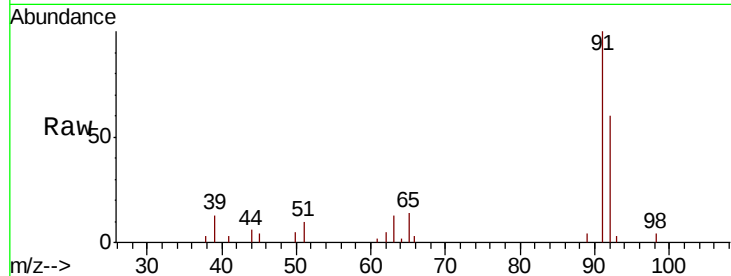
91 100

92 60.5 40.3 74.9

Manual Integrations
APPROVED

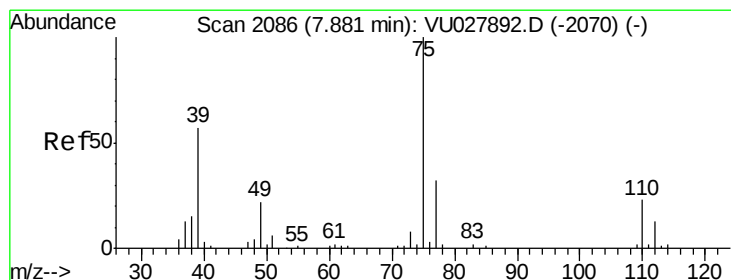
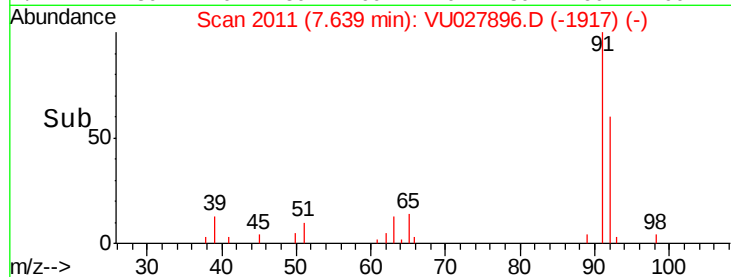
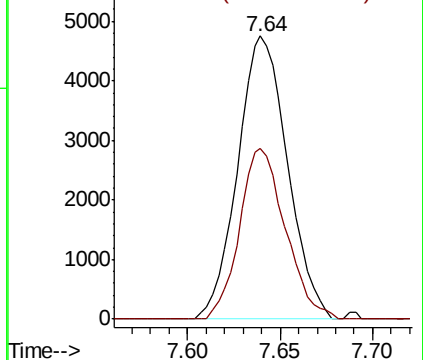
MMDadoda

11/5/2018 4:10:23 PM



Abundance Ion 91.15 (90.85 to 91.85): VU027892.D (-1996) (-)

Ion 92.15 (91.85 to 92.85): VU027896.D (-1917) (-)



#44

trans-1,3-Dichloropropene

Concen: 0.327 ug/L m

RT: 7.89 min Scan# 2088

Delta R.T. 0.01 min

Lab File: VU027896.D

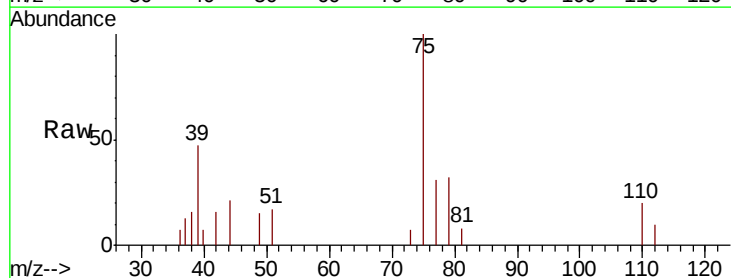
Acq: 01 Nov 2018 12:00

Tgt Ion: 75 Resp: 2967

Ion Ratio Lower Upper

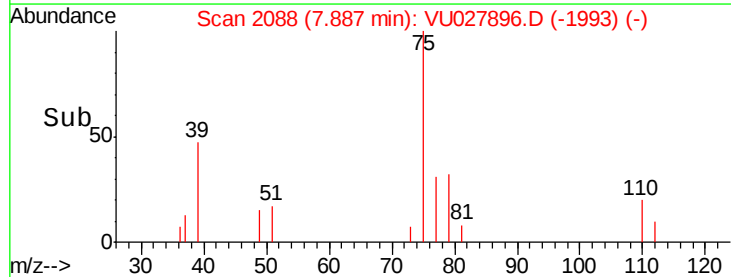
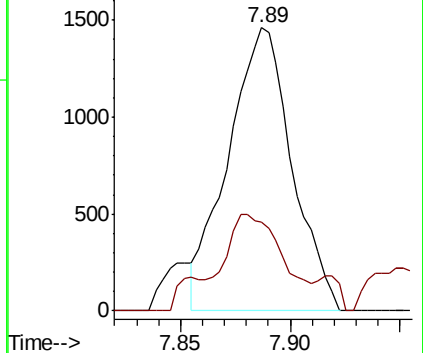
75 100

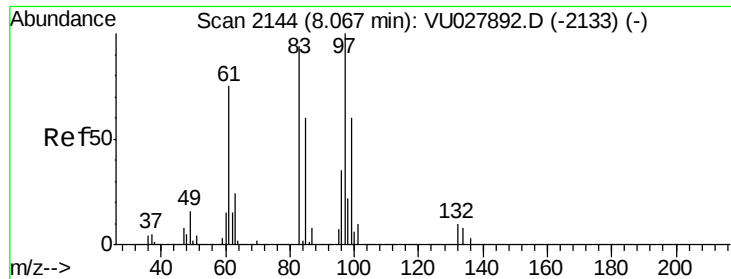
77 31.2 20.5 38.1



Abundance Ion 75.05 (74.75 to 75.75): VU027892.D (-2070) (-)

Ion 77.05 (76.75 to 77.75): VU027896.D (-1993) (-)





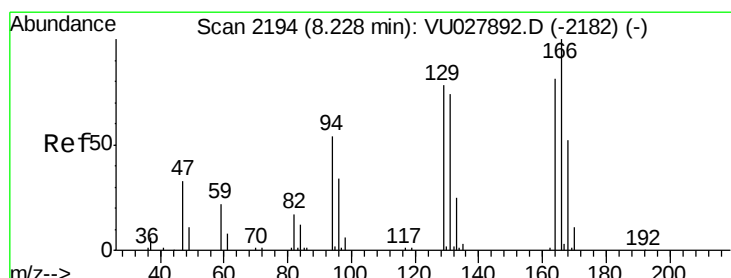
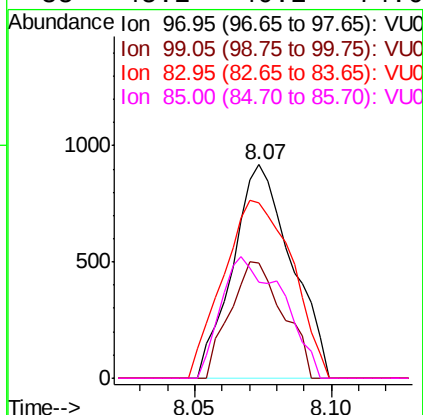
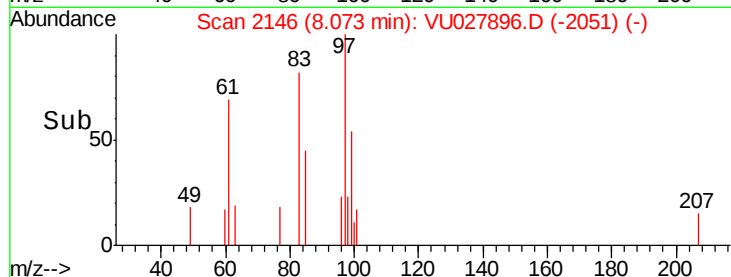
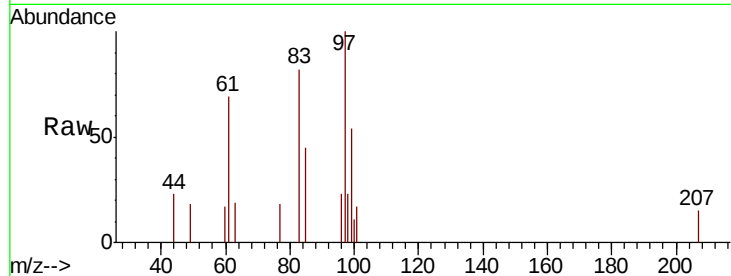
#45
 1,1,2-Trichloroethane
 Concen: 0.302 ug/L
 RT: 8.07 min Scan# 2146
 Delta R.T. 0.01 min
 Lab File: VU027896.D
 Acq: 01 Nov 2018 12:00

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion:	97	Resp:	1371
Ion	Ratio	Lower	Upper
97	100		
99	54.0	42.9	79.7
83	82.0	62.2	115.6
85	45.2	40.2	74.6

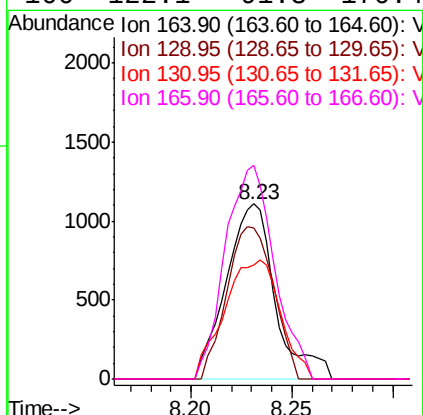
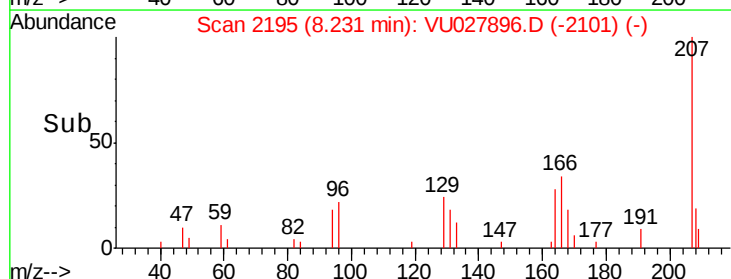
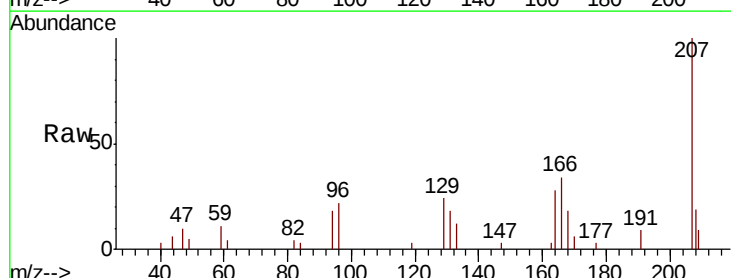
Manual Integrations
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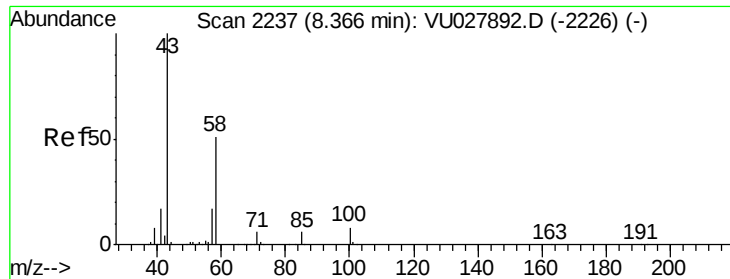
MMDadoda
 11/5/2018 4:10:23 PM



#47
 Tetrachloroethene
 Concen: 0.363 ug/L
 RT: 8.23 min Scan# 2195
 Delta R.T. 0.00 min
 Lab File: VU027896.D
 Acq: 01 Nov 2018 12:00

Tgt Ion:	164	Resp:	1876
Ion	Ratio	Lower	Upper
164	100		
129	86.2	64.9	120.5
131	65.1	64.3	119.5
166	122.1	91.8	170.4





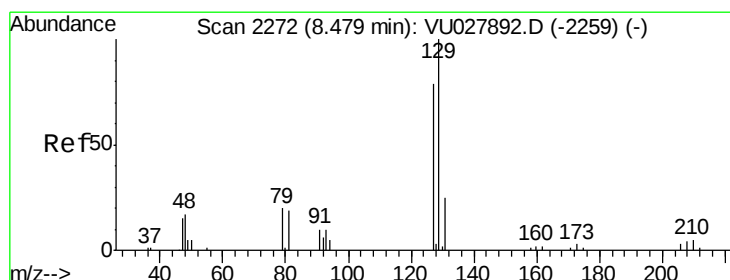
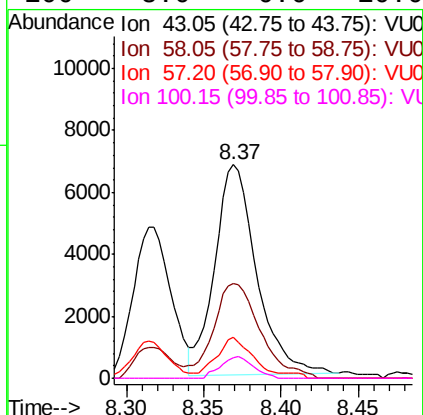
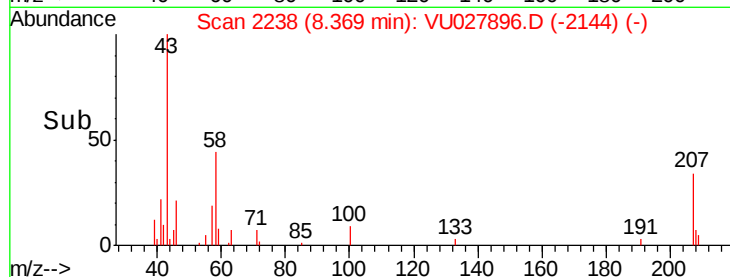
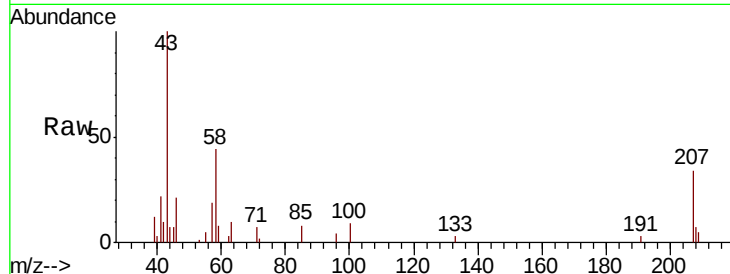
#48
2-Hexanone
Concen: 3.418 ug/L
RT: 8.37 min Scan# 2238
Delta R.T. 0.00 min
Lab File: VU027896.D
Acq: 01 Nov 2018 12:00

Instrument :
MSVOA_U
ClientSampled :
MDL03

Tot Ion	Ratio	Lower	Upper
43	100		
58	50.4	38.9	58.3
57	17.7	13.3	19.9
100	8.0	6.6	10.0

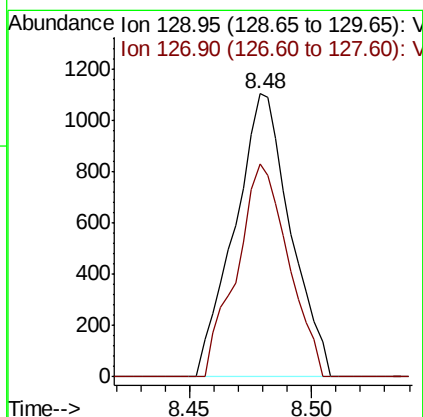
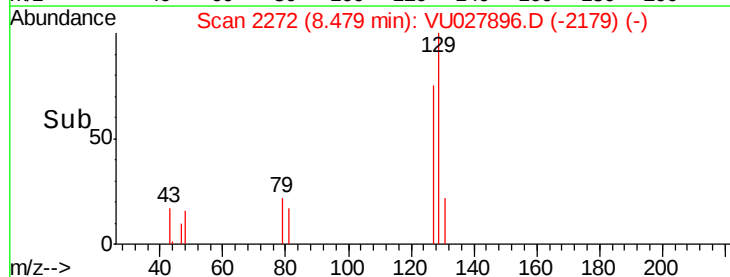
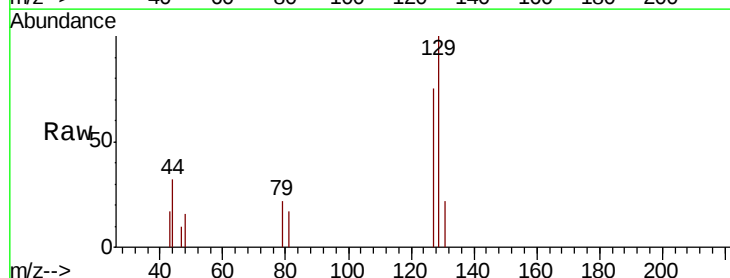
Manual Integrations
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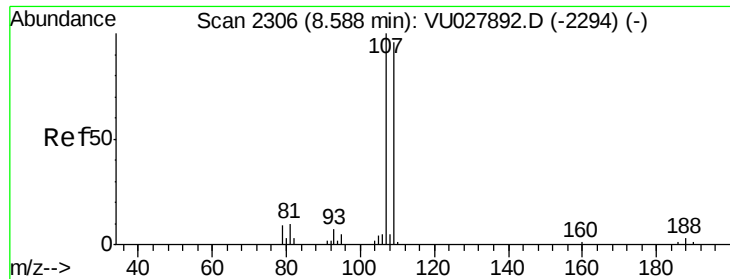
MMDadoda
11/5/2018 4:10:23 PM



#49
Dibromochloromethane
Concen: 0.320 ug/L
RT: 8.48 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VU027896.D
Acq: 01 Nov 2018 12:00

Tgt Ion	Ratio	Lower	Upper
129	100		
127	75.1	54.5	101.1





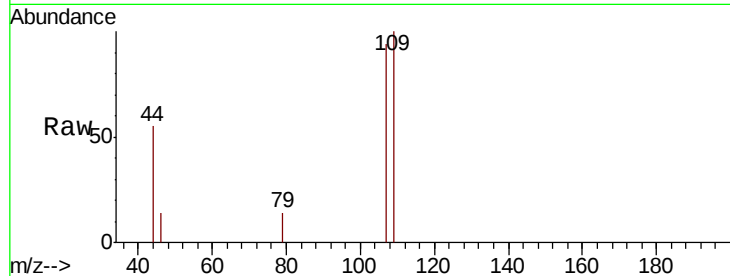
#50
1,2-Dibromoethane
Concen: 0.342 ug/L
RT: 8.59 min Scan# 2307
Delta R.T. 0.00 min
Lab File: VU027896.D
Acq: 01 Nov 2018 12:00

Instrument :
MSVOA_U
ClientSampled :
MDL03

Tot Ion	Ratio	Lower	Upper
107	100		
109	106.4	68.0	126.4
188	0.0	2.7	4.1#

Manual Integrations
APPROVED

MMDadoda
11/5/2018 4:10:23 PM

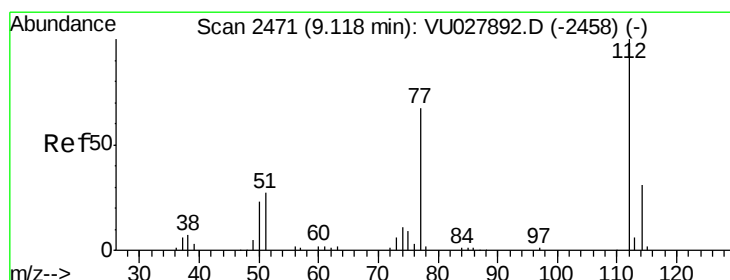
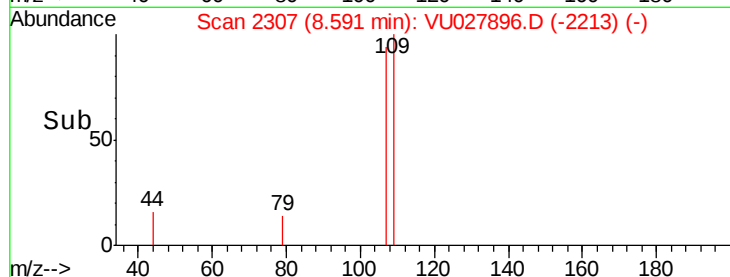
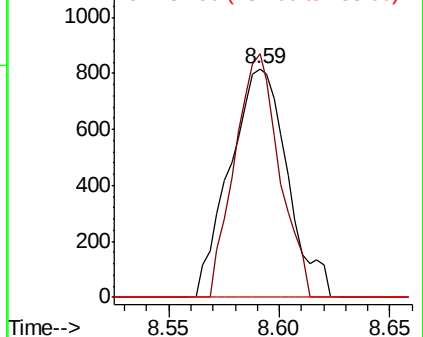


Abundance

Ion 106.95 (106.65 to 107.65): V

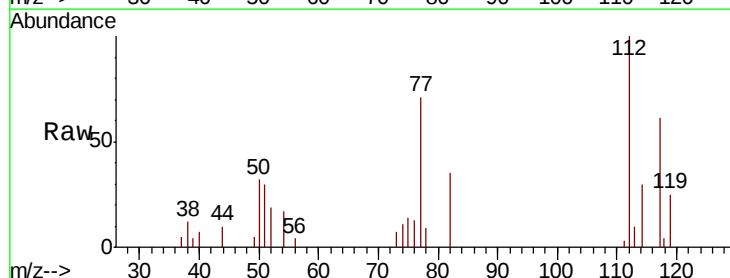
Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#51
Chlorobenzene
Concen: 0.319 ug/L
RT: 9.12 min Scan# 2472
Delta R.T. 0.00 min
Lab File: VU027896.D
Acq: 01 Nov 2018 12:00

Tgt Ion	Ratio	Lower	Upper
112	100		
114	30.2	22.0	41.0
77	70.5	54.3	81.5

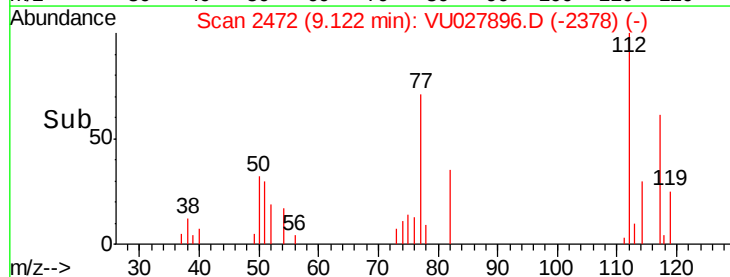
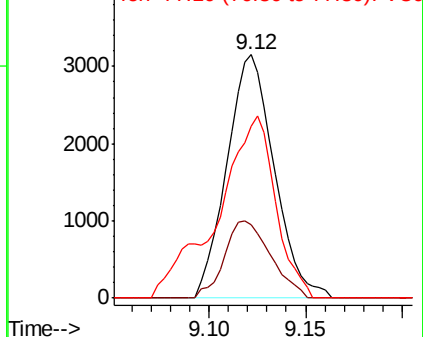


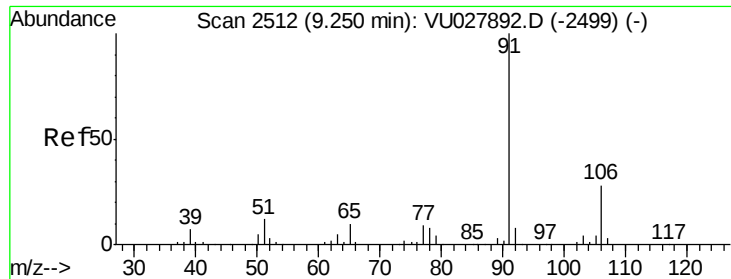
Abundance

Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU





#52

Ethylbenzene

Concen: 0.315 ug/L

RT: 9.25 min Scan# 2512

Delta R.T. -0.00 min

Lab File: VU027896.D

Acq: 01 Nov 2018 12:00

Tot Ion: 91 Resp: 9711

Ion Ratio Lower Upper

91 100

106 28.8 21.5 39.9

Instrument :

MSVOA_U

ClientSampled :

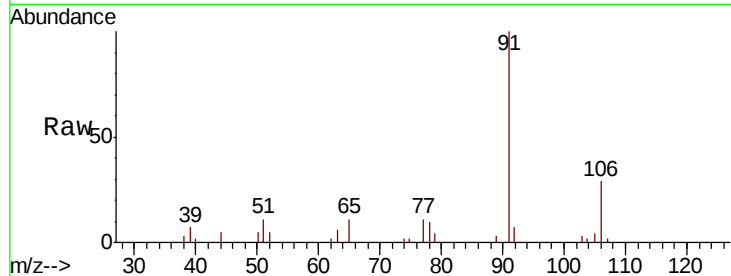
MDL03

Manual Integrations

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11/5/2018 4:10:23 PM



Abundance Ion 91.15 (90.85 to 91.85): VU027892.D (-2499) (-)

Ion 106.15 (105.85 to 106.85): VU027892.D (-2499) (-)

9.25

6000

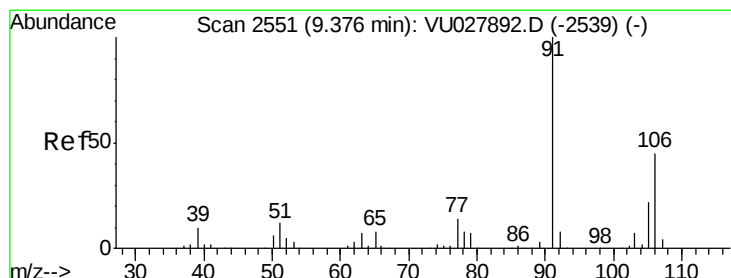
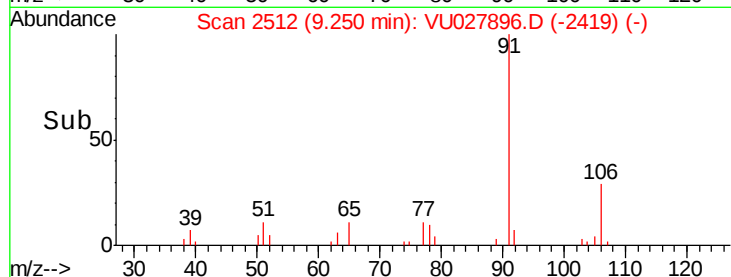
4000

2000

0

9.20 9.25 9.30

Time-->



#53

m,p-xylene

Concen: 0.313 ug/L

RT: 9.38 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VU027896.D

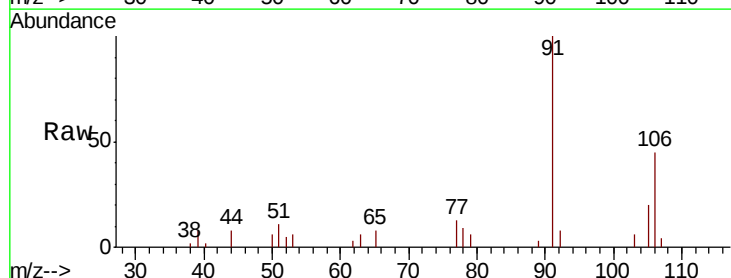
Acq: 01 Nov 2018 12:00

Tgt Ion: 106 Resp: 3502

Ion Ratio Lower Upper

106 100

91 219.9 148.7 276.1



Abundance Ion 106.15 (105.85 to 106.85): VU027892.D (-2539) (-)

Ion 91.15 (90.85 to 91.85): VU027892.D (-2539) (-)

9.38

5000

4000

3000

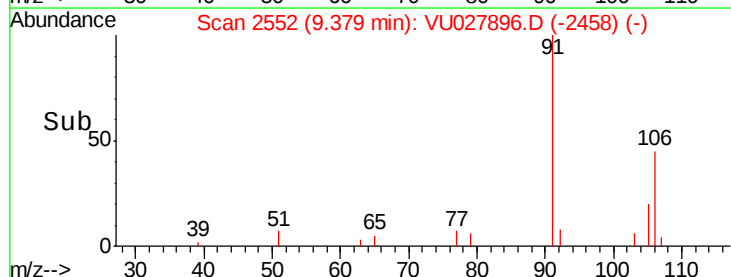
2000

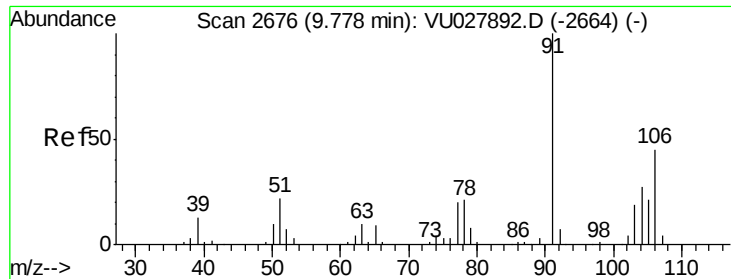
1000

0

9.35 9.40

Time-->





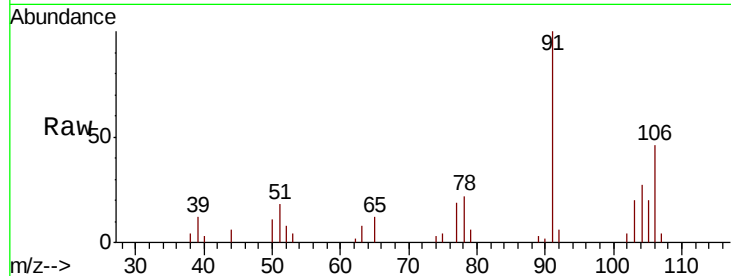
#54
o-xylene
Concen: 0.312 ug/L
RT: 9.78 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VU027896.D
Acq: 01 Nov 2018 12:00

Instrument :
MSVOA_U
ClientSampled :
MDL03

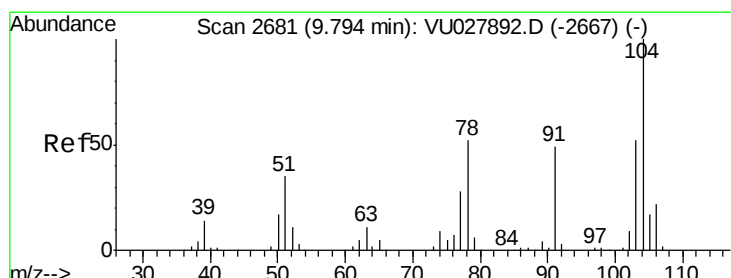
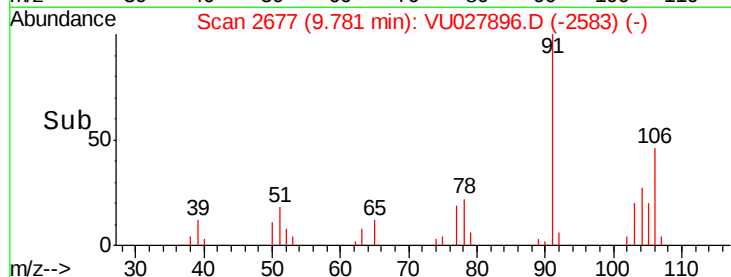
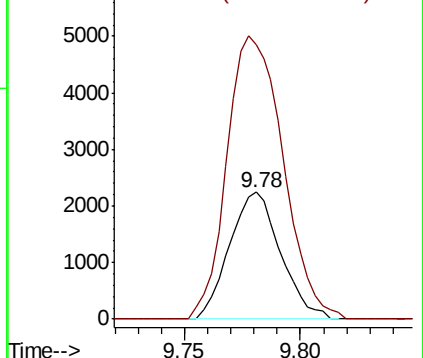
Tot Ion:106 Resp: 3428
Ion Ratio Lower Upper
106 100
91 216.0 158.3 293.9

Manual Integrations
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MMDadoda
11/5/2018 4:10:23 PM

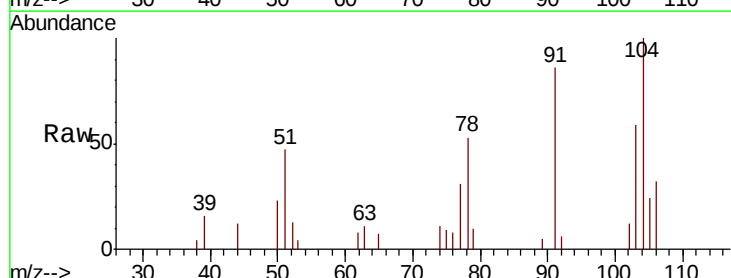


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

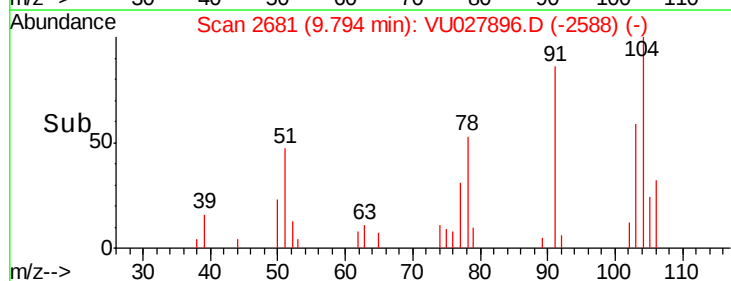
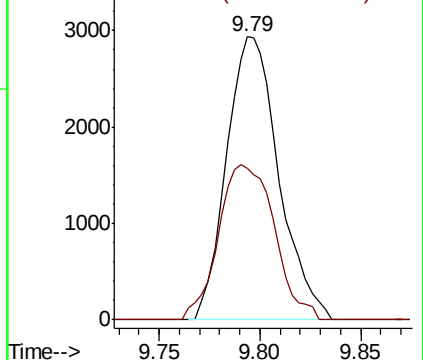


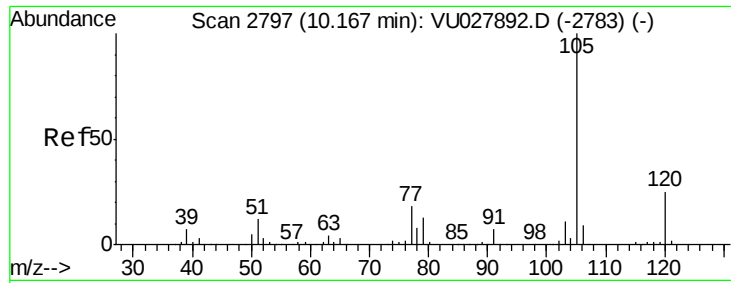
#55
Styrene
Concen: 0.288 ug/L
RT: 9.79 min Scan# 2681
Delta R.T. -0.00 min
Lab File: VU027896.D
Acq: 01 Nov 2018 12:00

Tgt Ion:104 Resp: 5309
Ion Ratio Lower Upper
104 100
78 53.5 35.6 66.0



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 0.305 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU027896.D

Acq: 01 Nov 2018 12:00

Instrument :

MSVOA_U

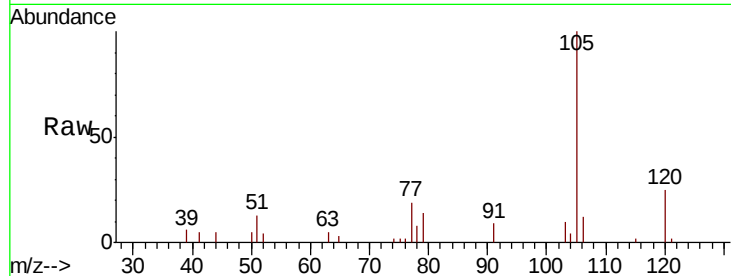
ClientSampled :

MDL03

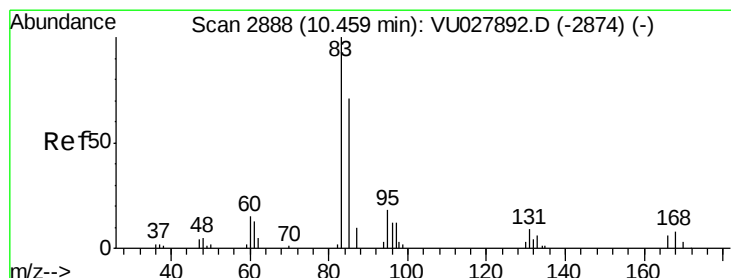
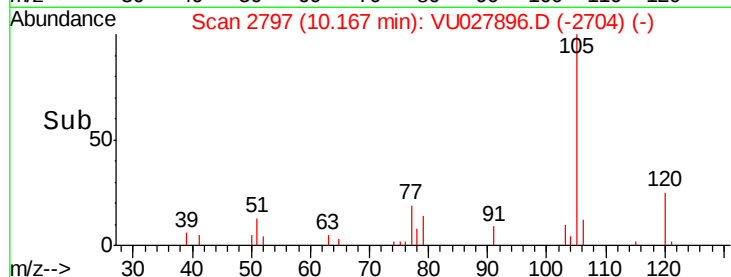
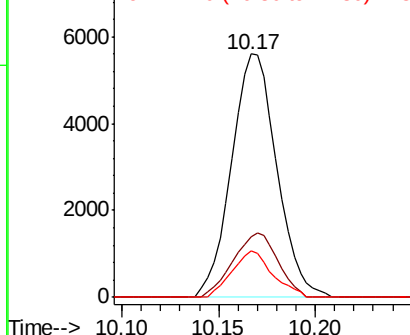
Tot Ion:	105	Resp:	9122
Ion Ratio	Lower	Upper	
105	100		
120	26.1	20.2	30.2
77	17.1	13.4	20.2

Manual Integrations
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Abundance Ion 105.05 (104.75 to 105.75): V
Ion 120.10 (119.80 to 120.80): V
Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 0.330 ug/L

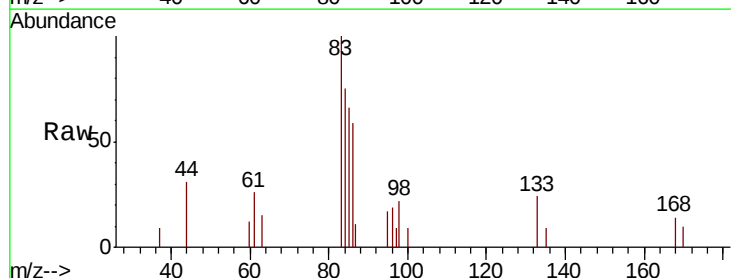
RT: 10.46 min Scan# 2888

Delta R.T. -0.00 min

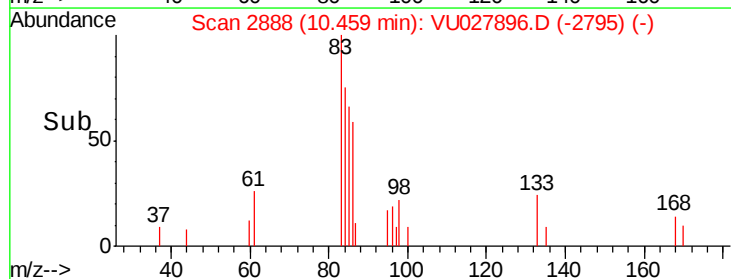
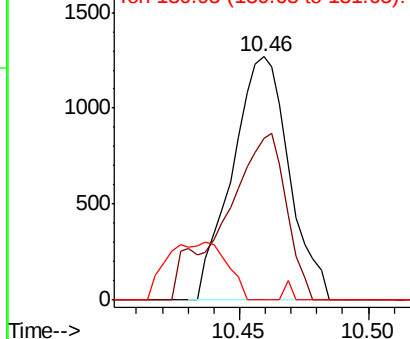
Lab File: VU027896.D

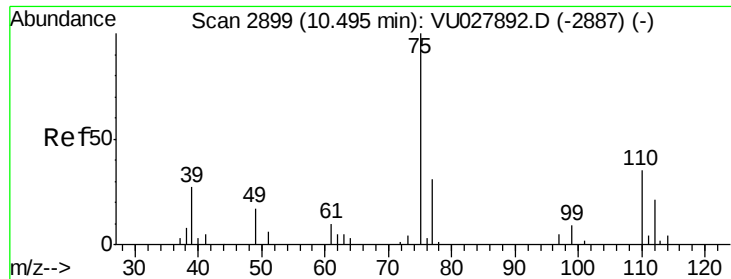
Acq: 01 Nov 2018 12:00

Tgt Ion:	83	Resp:	1950
Ion Ratio	Lower	Upper	
83	100		
85	66.2	44.4	82.4
131	0.0	6.8	10.2#



Abundance Ion 82.95 (82.65 to 83.65): VU
Ion 85.00 (84.70 to 85.70): VU
Ion 130.95 (130.65 to 131.65): V





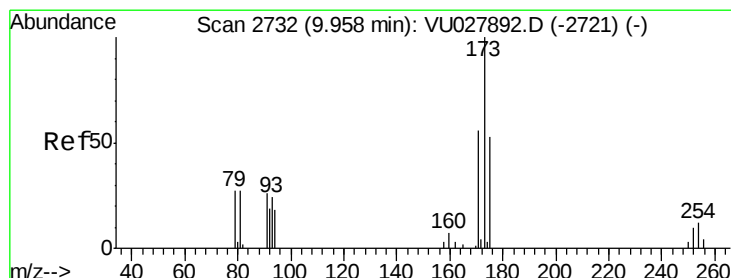
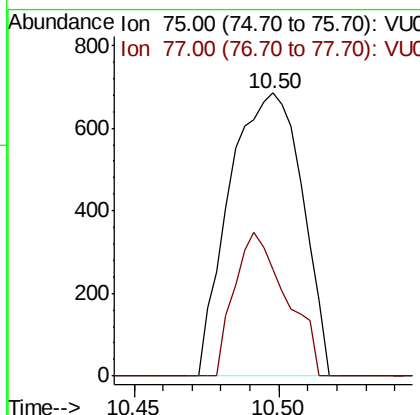
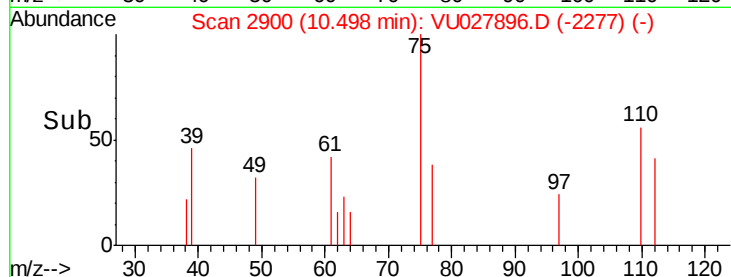
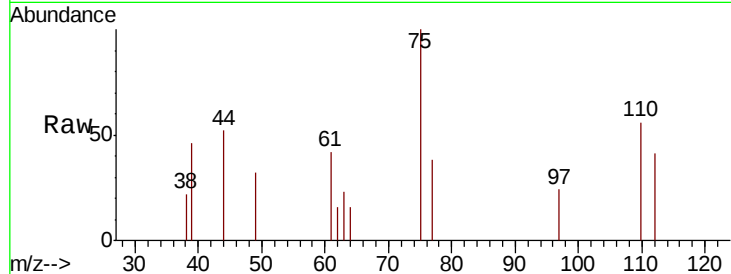
#59
 1,2,3-Trichloropropane
 Concen: 0.267 ug/L
 RT: 10.50 min Scan# 2900
 Delta R.T. 0.00 min
 Lab File: VU027896.D
 Acq: 01 Nov 2018 12:00

Instrument :
 MSVOA_U
 ClientSampled :
 MDL03

Tot Ion: 75 Resp: 1193
 Ion Ratio Lower Upper
 75 100
 77 36.3 25.8 38.6

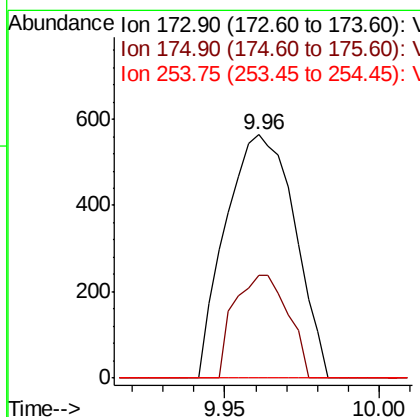
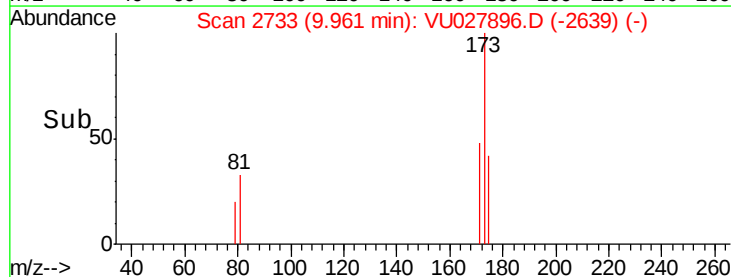
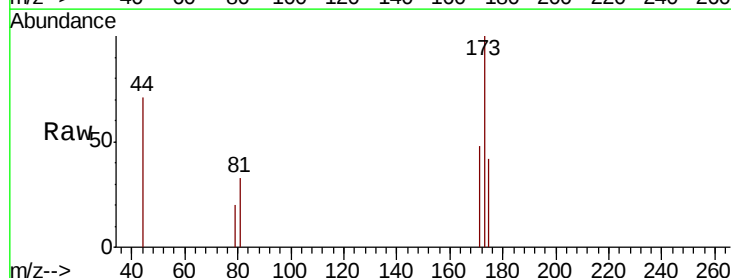
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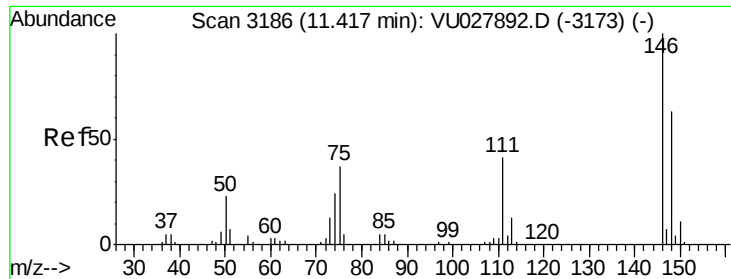
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#61
 Bromoform
 Concen: 0.295 ug/L
 RT: 9.96 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VU027896.D
 Acq: 01 Nov 2018 12:00

Tgt Ion: 173 Resp: 873
 Ion Ratio Lower Upper
 173 100
 175 32.8 38.3 57.5#
 254 0.0 7.8 11.6#





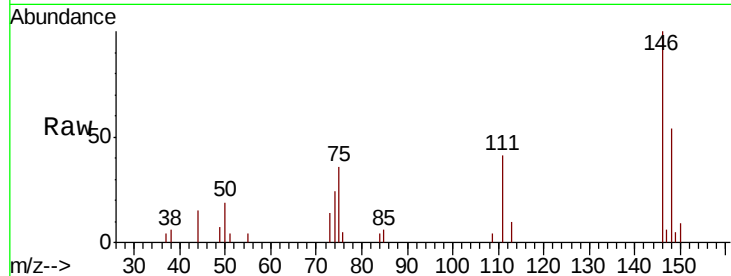
#62
 1,3-Dichlorobenzene
 Concen: 0.336 ug/L
 RT: 11.42 min Scan# 3186
 Delta R.T. -0.00 min
 Lab File: VU027896.D
 Acq: 01 Nov 2018 12:00

Instrument :
 MSVOA_U
 ClientSampled :
 MDL03

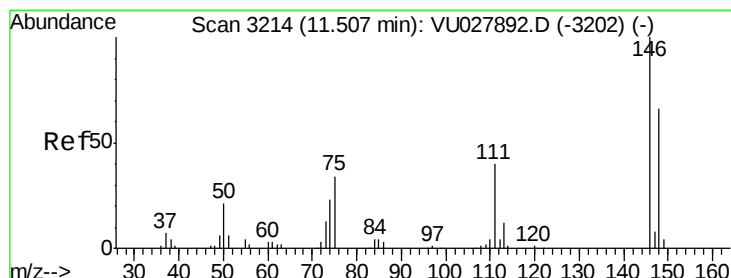
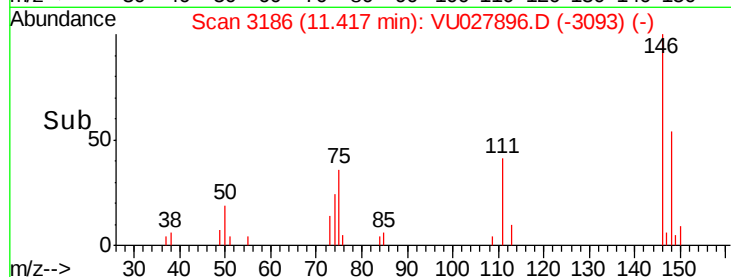
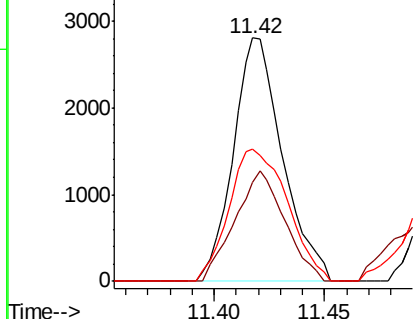
Tot Ion	Ratio	Lower	Upper
146	100		
111	40.6	27.4	51.0
148	54.2	42.6	79.0

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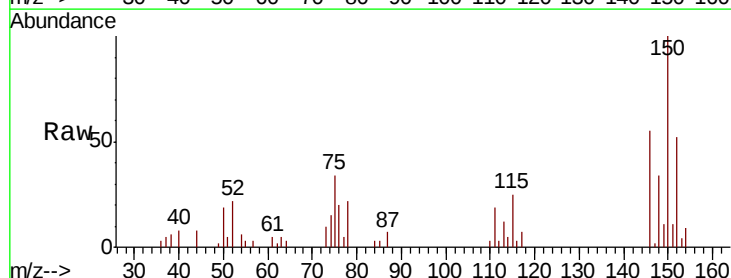


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

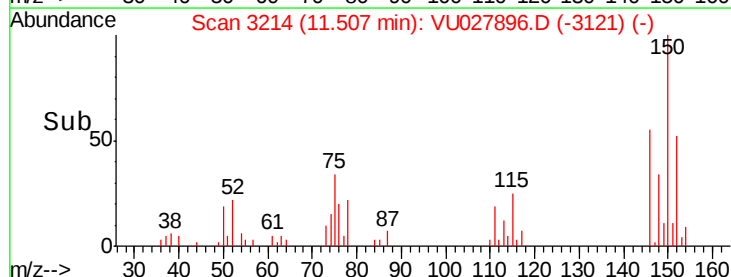
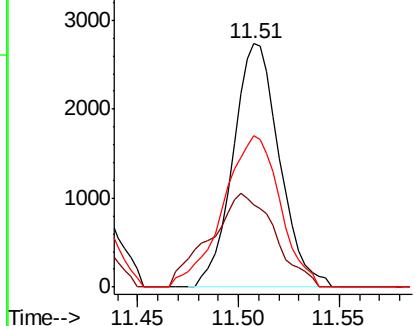


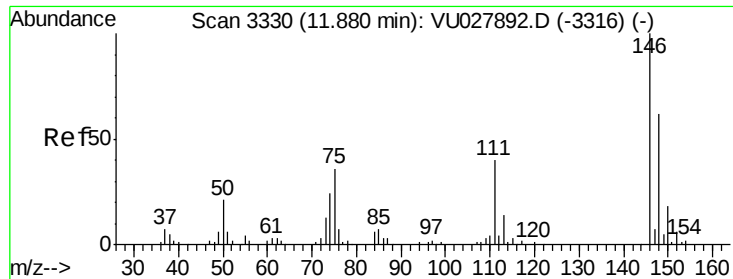
#63
 1,4-Dichlorobenzene
 Concen: 0.341 ug/L
 RT: 11.51 min Scan# 3214
 Delta R.T. 0.00 min
 Lab File: VU027896.D
 Acq: 01 Nov 2018 12:00

Tgt Ion	Ratio	Lower	Upper
146	100		
111	34.0	27.4	51.0
148	62.1	43.1	80.1



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

1,2-Dichlorobenzene

Concen: 0.307 ug/L

RT: 11.88 min Scan# 3331

Delta R.T. 0.00 min

Lab File: VU027896.D

Acq: 01 Nov 2018 12:00

Instrument :

MSVOA_U

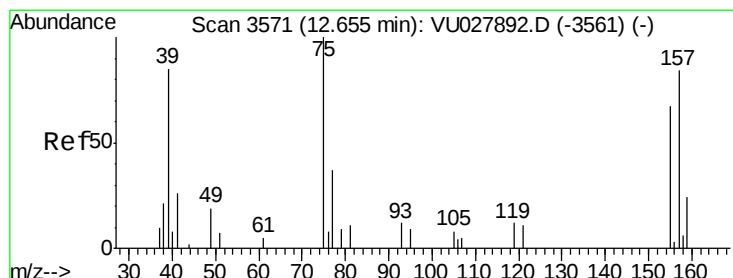
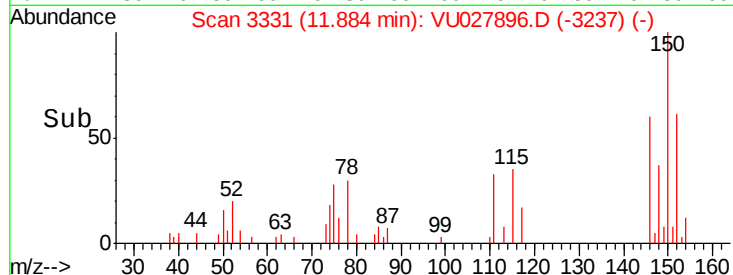
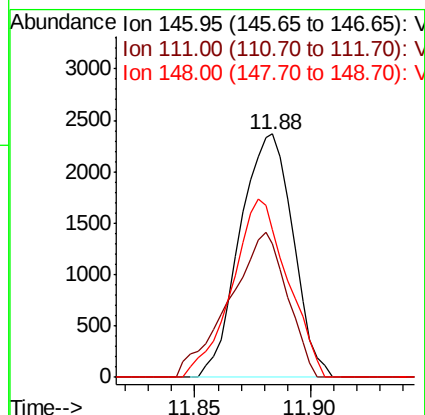
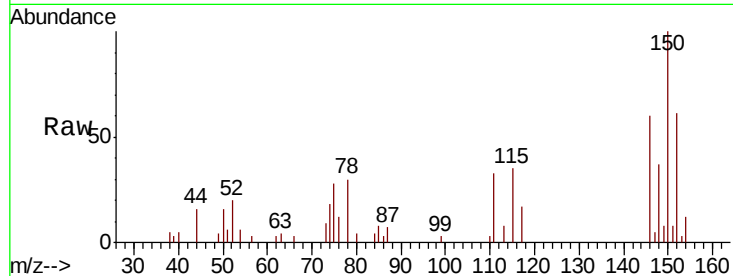
ClientSampleId :

MDL03

Tot Ion:	146	Resp:	3754
Ion Ratio	Lower	Upper	
146	100		
111	54.6	33.0	49.4#
148	60.8	49.2	73.8

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#66

1,2-Dibromo-3-chloropropane

Concen: 0.212 ug/L m

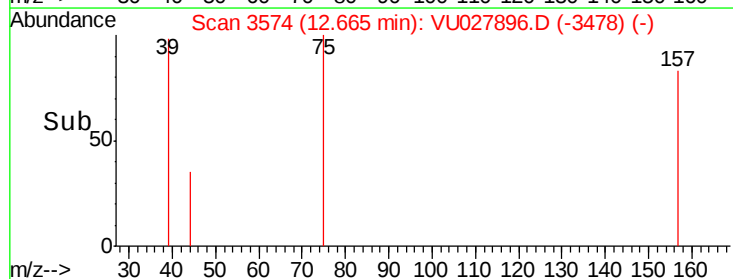
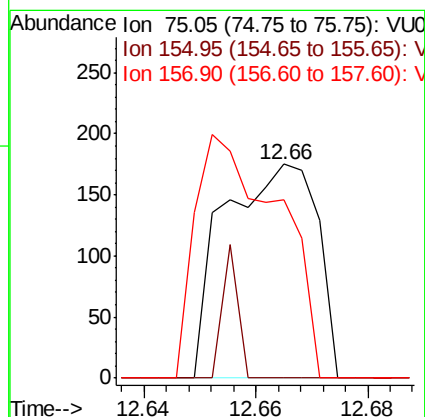
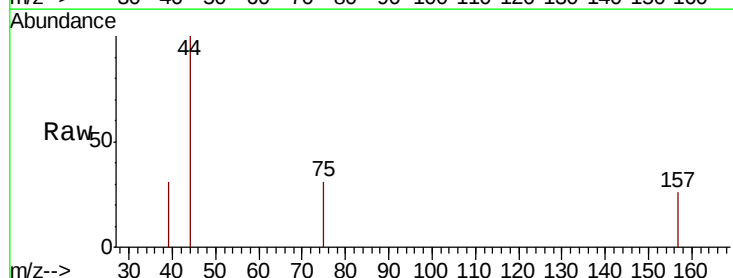
RT: 12.66 min Scan# 3574

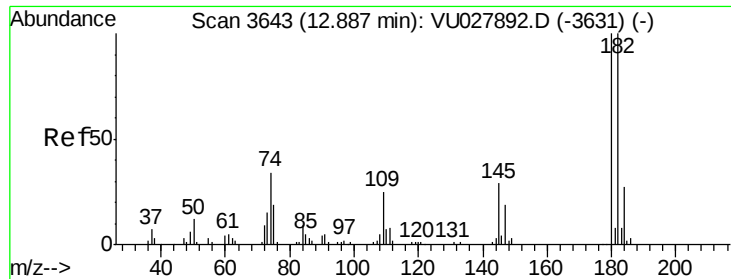
Delta R.T. 0.01 min

Lab File: VU027896.D

Acq: 01 Nov 2018 12:00

Tgt Ion:	75	Resp:	203
Ion Ratio	Lower	Upper	
75	100		
155	0.0	58.6	87.8#
157	83.4	66.7	100.1





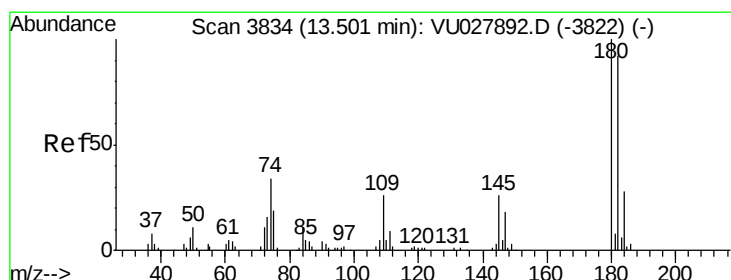
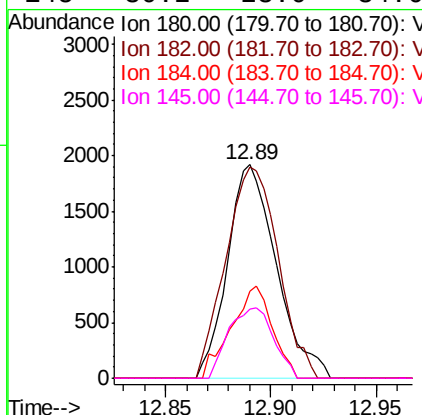
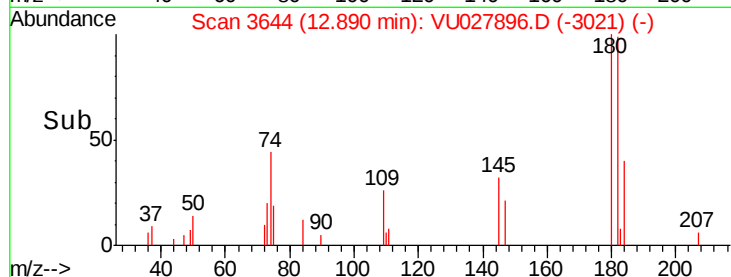
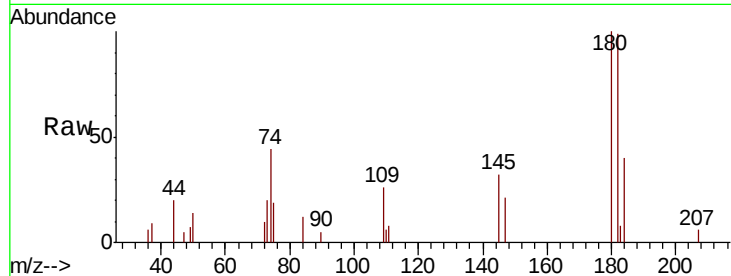
#67
 1,3,5-Trichlorobenzene
 Concen: 0.296 ug/L
 RT: 12.89 min Scan# 3644
 Delta R.T. 0.00 min
 Lab File: VU027896.D
 Acq: 01 Nov 2018 12:00

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
180	100		
182	105.7	77.3	115.9
184	36.2	24.6	37.0
145	30.2	23.0	34.6

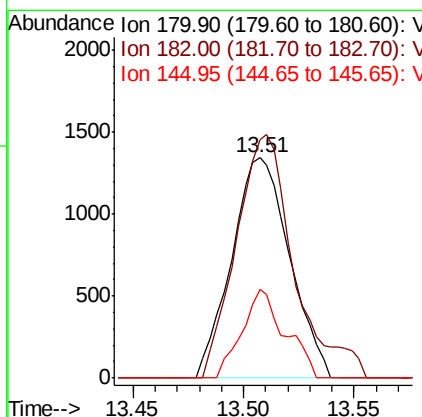
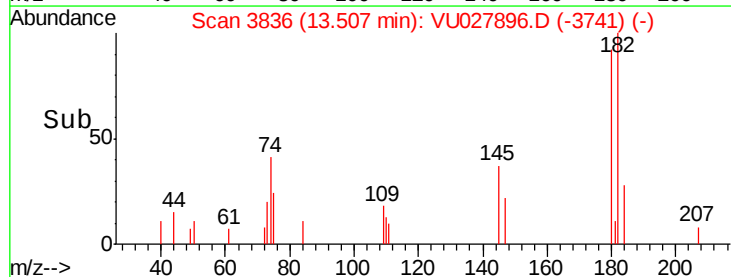
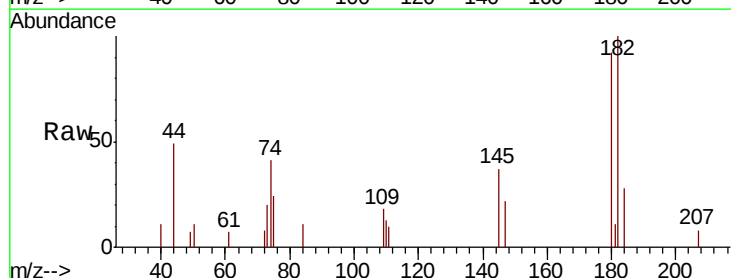
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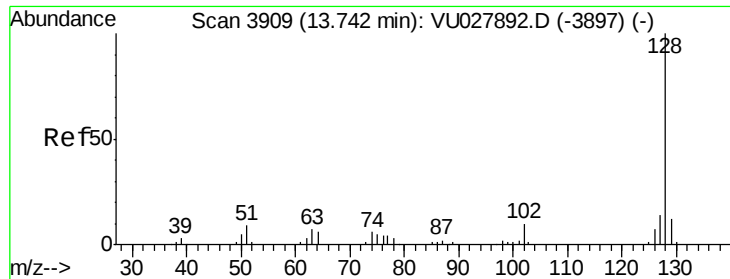
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#68
 1,2,4-trichlorobenzene
 Concen: 0.276 ug/L
 RT: 13.51 min Scan# 3836
 Delta R.T. 0.01 min
 Lab File: VU027896.D
 Acq: 01 Nov 2018 12:00

Tgt Ion	Ratio	Lower	Upper
180	100		
182	110.3	77.8	116.6
145	29.9	22.9	34.3





#69

Naphthalene

Concen: 0.267 ug/L

RT: 13.75 min Scan# 3911

Delta R.T. 0.01 min

Lab File: VU027896.D

Acq: 01 Nov 2018 12:00

Instrument :

MSVOA_U

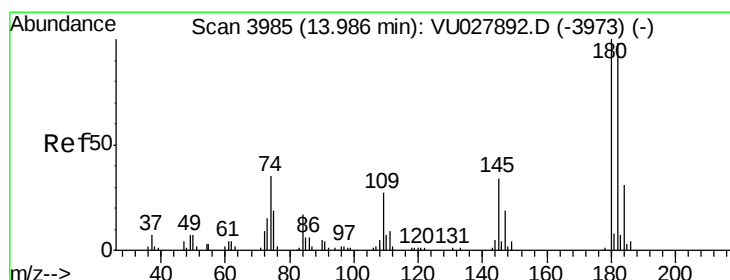
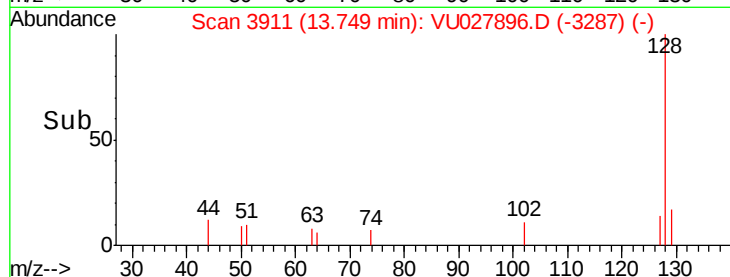
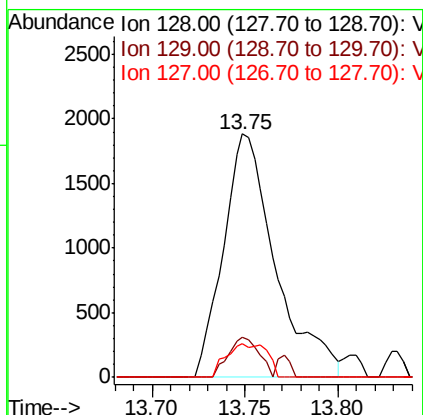
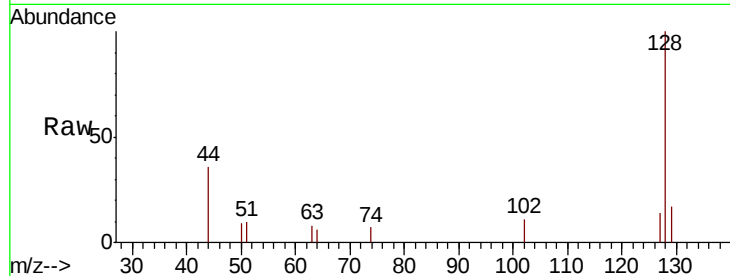
ClientSampled :

MDL03

Tot Ion	Ratio	Lower	Upper
128	100		
129	9.7	8.6	12.8
127	10.6	10.5	15.7

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#70

1,2,3-Trichlorobenzene

Concen: 0.312 ug/L

RT: 13.99 min Scan# 3986

Delta R.T. 0.00 min

Lab File: VU027896.D

Acq: 01 Nov 2018 12:00

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.8	79.4	119.0
145	30.8	25.4	38.0

