

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU110118\
 Data File : VU027898.D
 Acq On : 01 Nov 2018 12:48
 Operator : MD/SY
 Sample : MDL05
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

Manual Integrations
 APPROVED

MMDadoda
 11/5/2018 4:10:25 PM

Quant Time: Nov 02 07:25:26 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	84289	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	82046	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	40717	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	22922	3.48	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	69.60%
7) Chloroethane-d5	1.68	69	18376	3.61	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	72.20%
11) 1,1-Dichloroethene-d2	2.28	63	35670	2.85	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	57.00%#
20) 2-Butanone-d5	4.20	46	83294	42.40	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	84.80%
24) Chloroform-d	4.65	84	42542	3.59	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	71.80%
26) 1,2-Dichloroethane-d4	5.31	65	29105	4.27	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.40%
32) Benzene-d6	5.34	84	83835	3.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	74.60%
36) 1,2-Dichloropropane-d6	6.33	67	30244	3.80	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	76.00%
41) Toluene-d8	7.57	98	78315	3.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	73.40%
43) trans-1,3-Dichloropropene-	7.85	79	11290	3.67	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	73.40%
46) 2-Hexanone-d5	8.31	63	66898	39.73	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	79.46%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	22568	4.01	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	80.20%
64) 1,2-Dichlorobenzene-d4	11.86	152	29503	3.79	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	75.80%#

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.21	85	2426	0.292	ug/L	90
3) Chloromethane	1.33	50	2528	0.307	ug/L	93
5) Vinyl chloride	1.40	62	2460	0.300	ug/L #	81
6) Bromomethane	1.63	94	869	0.323	ug/L	79
8) Chloroethane	1.70	64	1557m	0.324	ug/L	
9) Trichlorofluoromethane	1.89	101	3839	0.353	ug/L	92
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	1769	0.319	ug/L #	43
12) 1,1-Dichloroethene	2.29	96	1776	0.339	ug/L #	1
13) Acetone	2.32	43	4567	3.688	ug/L	90
14) Carbon disulfide	2.48	76	5185	0.277	ug/L #	94
15) Methyl Acetate	2.62	43	1382	0.417	ug/L #	83
16) Methylene chloride	2.70	84	1847	0.314	ug/L #	91
17) Methyl tert-butyl Ether	3.01	73	4728	0.303	ug/L #	87
18) trans-1,2-Dichloroethene	2.98	96	1776	0.319	ug/L	92
19) 1,1-Dichloroethane	3.45	63	3885	0.331	ug/L	95
21) 2-Butanone	4.29	43	7318	3.399	ug/L	91
22) cis-1,2-Dichloroethene	4.22	96	1900	0.295	ug/L	83

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

23) Bromochloromethane	4.55	128	746	0.280	ug/L #	68
25) Chloroform	4.67	83	8637	0.725	ug/L	90
27) 1,2-Dichloroethane	5.41	62	2693	0.324	ug/L #	78
29) 1,1,1-Trichloroethane	4.92	97	3136	0.296	ug/L #	78
30) Cyclohexane	4.99	56	3694	0.297	ug/L #	89
31) Carbon tetrachloride	5.13	117	2734	0.301	ug/L	92
33) Benzene	5.39	78	8126	0.313	ug/L	100
34) Trichloroethene	6.19	95	2051	0.303	ug/L	95
35) Methylcyclohexane	6.41	83	3321	0.289	ug/L	92
37) 1,2-Dichloropropane	6.44	63	1876	0.253	ug/L #	90
38) Bromodichloromethane	6.76	83	2694	0.311	ug/L #	93
39) cis-1,3-Dichloropropene	7.28	75	2745	0.259	ug/L	94
40) 4-Methyl-2-pentanone	7.47	43	15752	3.012	ug/L	97
42) Toluene	7.64	91	8115	0.299	ug/L	96
44) trans-1,3-Dichloropropene	7.89	75	2416	0.265	ug/L #	75
45) 1,1,2-Trichloroethane	8.07	97	1166	0.256	ug/L	96
47) Tetrachloroethene	8.23	164	1627	0.313	ug/L	85
48) 2-Hexanone	8.37	43	12973	3.441	ug/L #	93
49) Dibromochloromethane	8.48	129	1491	0.271	ug/L	87
50) 1,2-Dibromoethane	8.59	107	1230	0.282	ug/L #	88
51) Chlorobenzene	9.12	112	5104	0.303	ug/L	88
52) Ethylbenzene	9.25	91	9223	0.298	ug/L	95
53) m,p-xylene	9.38	106	2819	0.251	ug/L	78
54) o-xylene	9.78	106	3188	0.289	ug/L	100
55) Styrene	9.79	104	5305	0.287	ug/L	94
56) Isopropylbenzene	10.17	105	8700	0.289	ug/L	96
58) 1,1,2,2-Tetrachloroethane	10.46	83	1529	0.258	ug/L #	98
59) 1,2,3-Trichloropropane	10.49	75	1450	0.323	ug/L	94
61) Bromoform	9.97	173	837	0.279	ug/L #	91
62) 1,3-Dichlorobenzene	11.42	146	4175	0.319	ug/L	90
63) 1,4-Dichlorobenzene	11.51	146	4166	0.318	ug/L	96
65) 1,2-Dichlorobenzene	11.88	146	3507	0.284	ug/L	89
67) 1,3,5-Trichlorobenzene	12.89	180	3159m	0.300	ug/L	
68) 1,2,4-trichlorobenzene	13.51	180	2328	0.260	ug/L	92
69) Naphthalene	13.75	128	3428	0.246	ug/L #	89
70) 1,2,3-Trichlorobenzene	13.99	180	2451	0.300	ug/L #	88

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

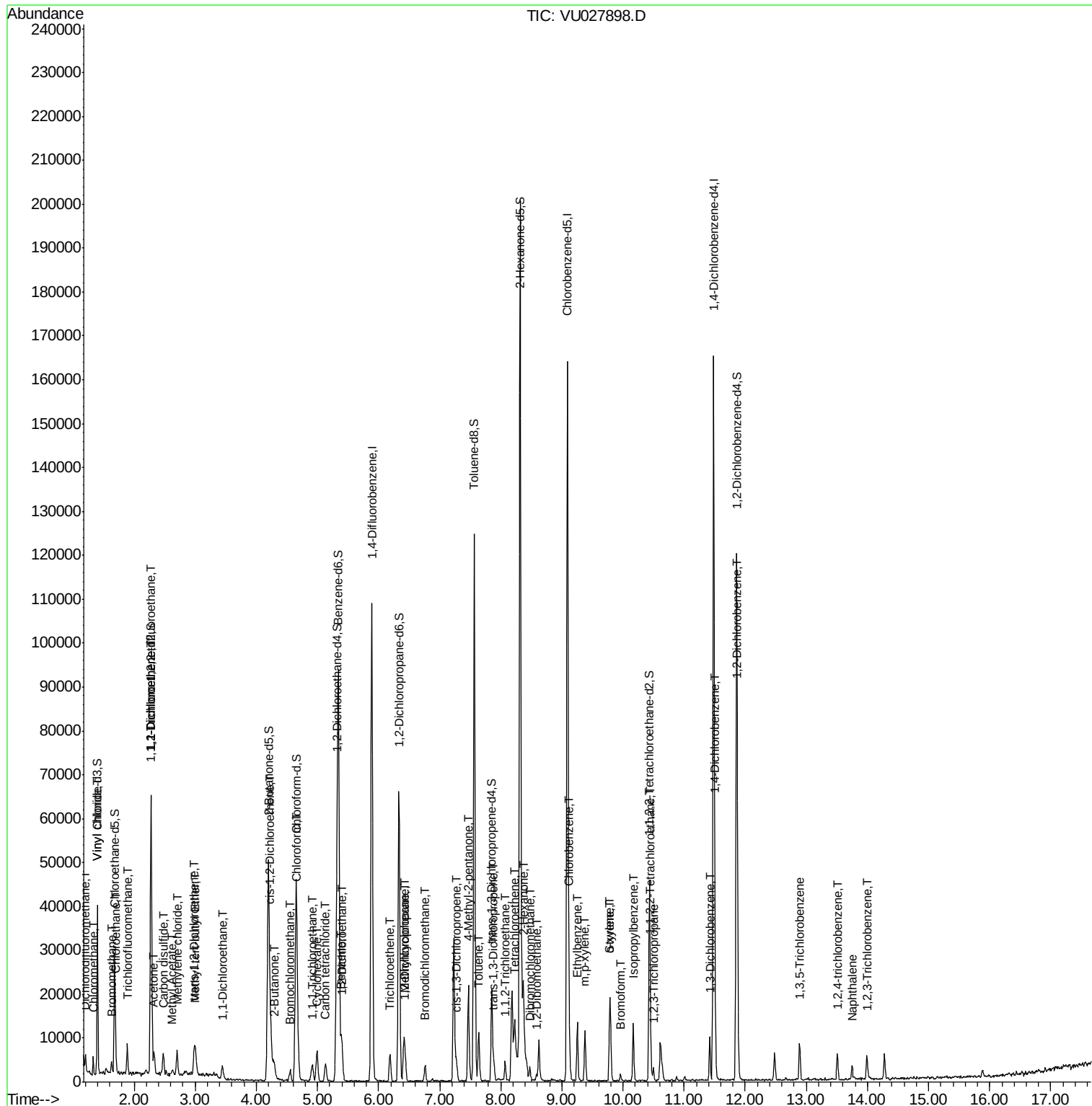
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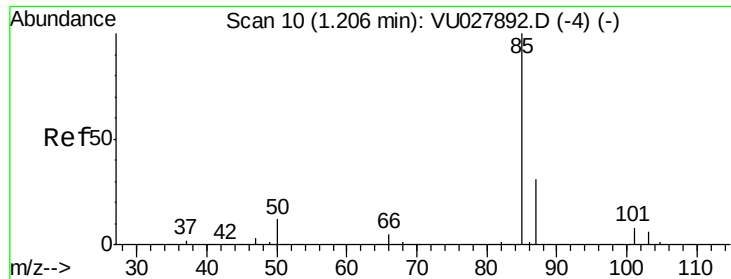
Instrument :
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#2

Dichlorodifluoromethane

Concen: 0.292 ug/L

RT: 1.21 min Scan# 10

Delta R.T. -0.00 min

Lab File: VU027898.D

Acq: 01 Nov 2018 12:48

Instrument :

MSVOA_U

ClientSampled :

MDL05

Tot Ion: 85 Resp: 2426

Ion Ratio Lower Upper

85 100

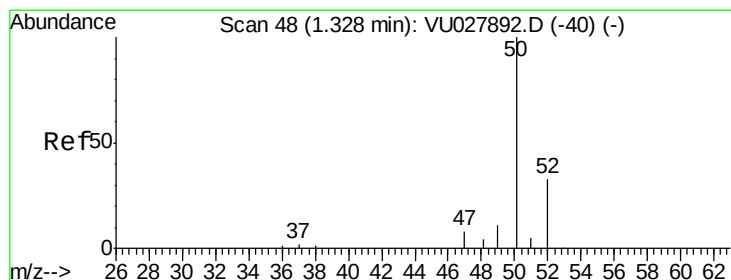
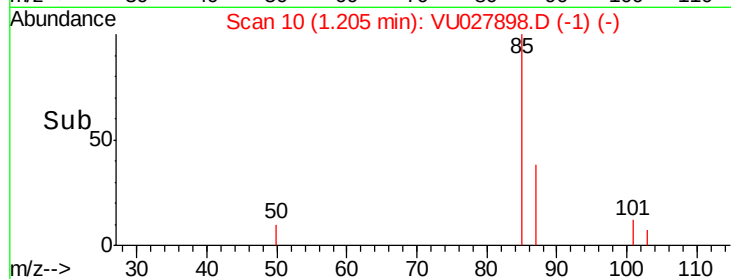
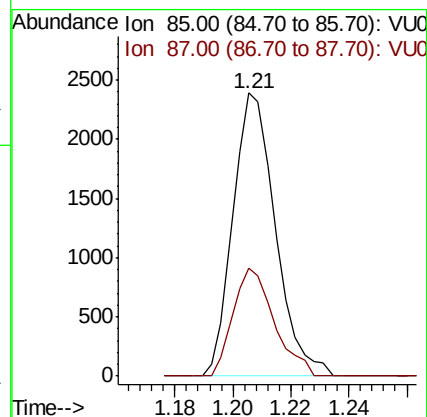
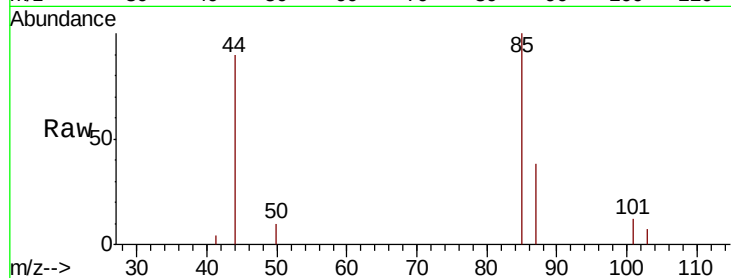
87 36.8 25.2 37.8

Manual Integrations

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#3

Chloromethane

Concen: 0.307 ug/L

RT: 1.33 min Scan# 49

Delta R.T. 0.00 min

Lab File: VU027898.D

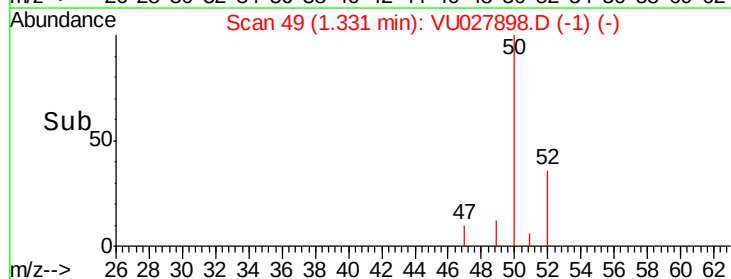
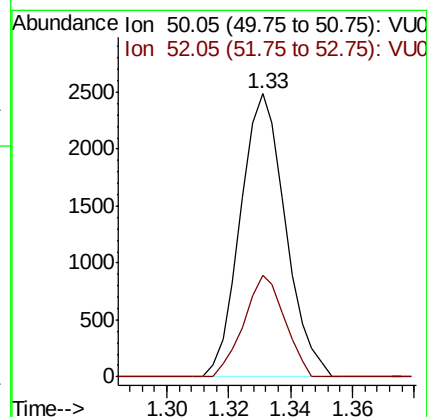
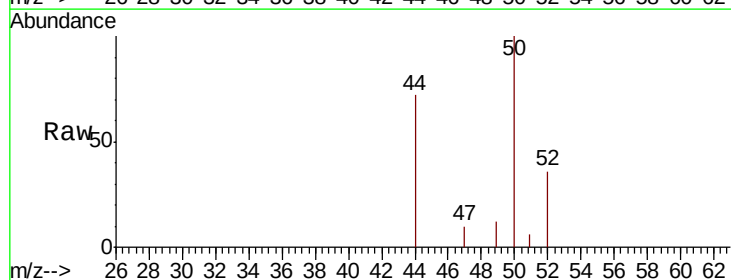
Acq: 01 Nov 2018 12:48

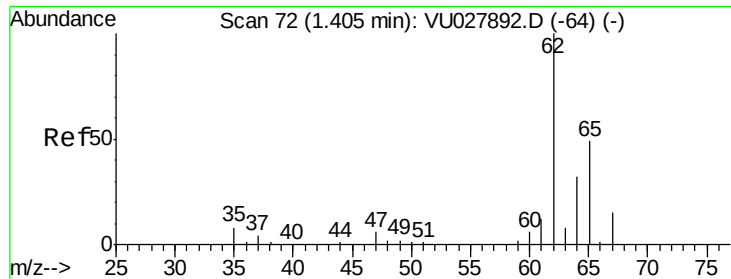
Tgt Ion: 50 Resp: 2528

Ion Ratio Lower Upper

50 100

52 35.9 22.3 41.5





#5

Vinyl chloride

Concen: 0.300 ug/L

RT: 1.40 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU027898.D

Acq: 01 Nov 2018 12:48

Instrument :

MSVOA_U

ClientSampled :

MDL05

Tot Ion: 62 Resp: 2460

Ion Ratio Lower Upper

62 100

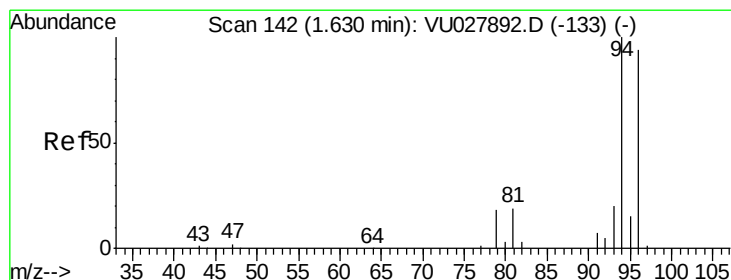
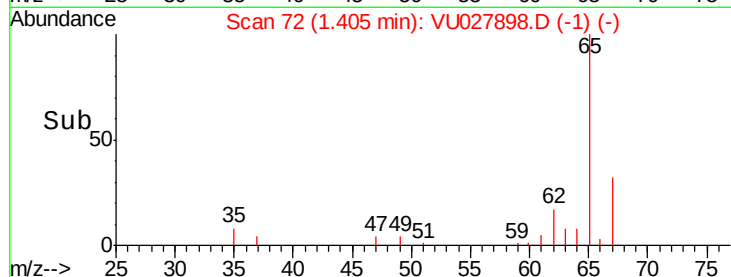
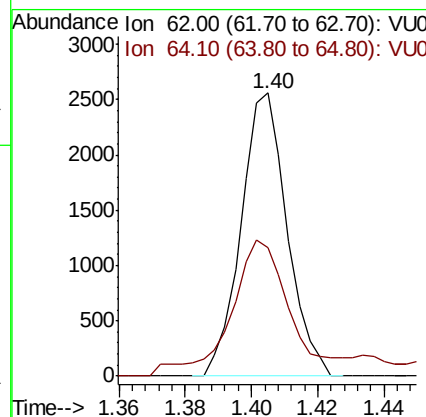
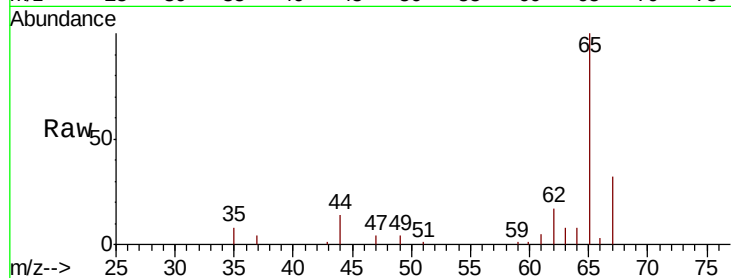
64 45.4 24.0 44.6#

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#6

Bromomethane

Concen: 0.323 ug/L

RT: 1.63 min Scan# 142

Delta R.T. -0.00 min

Lab File: VU027898.D

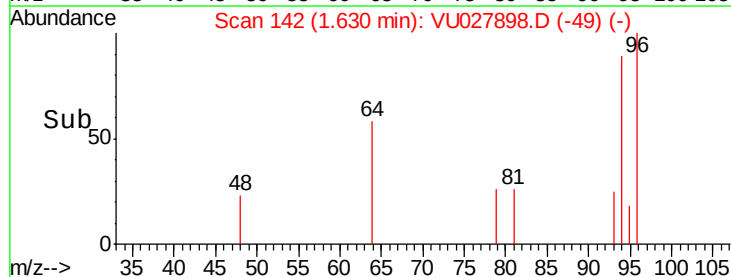
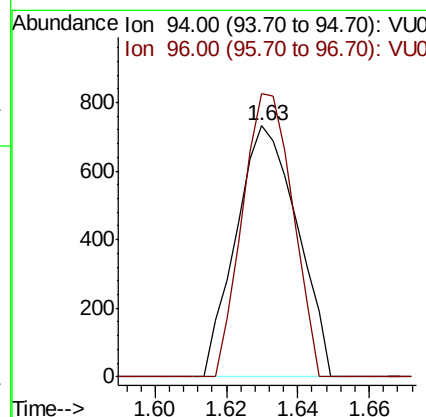
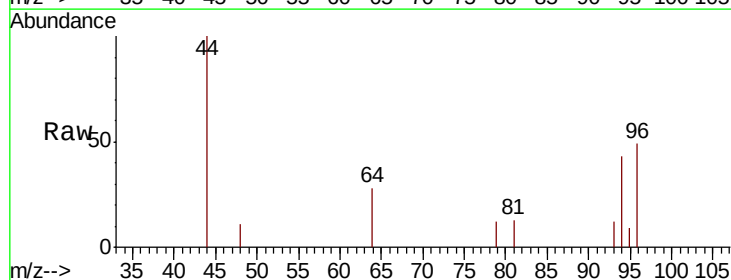
Acq: 01 Nov 2018 12:48

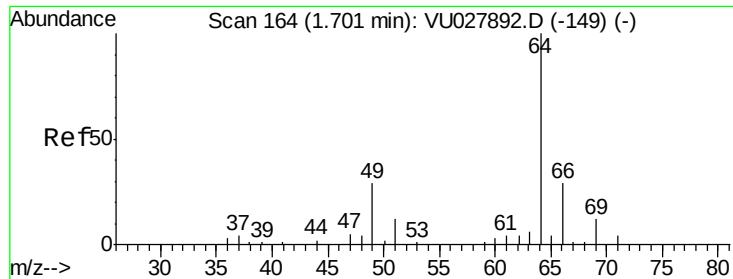
Tgt Ion: 94 Resp: 869

Ion Ratio Lower Upper

94 100

96 112.9 65.0 120.6





#8

Chloroethane

Concen: 0.324 ug/L m

RT: 1.70 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU027898.D

Acq: 01 Nov 2018 12:48

Instrument :

MSVOA_U

ClientSampleId :

MDL05

Tot Ion: 64 Resp: 1557

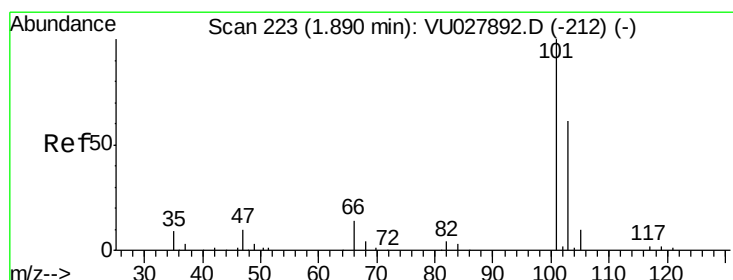
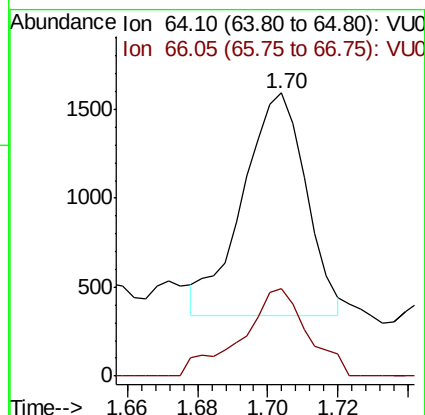
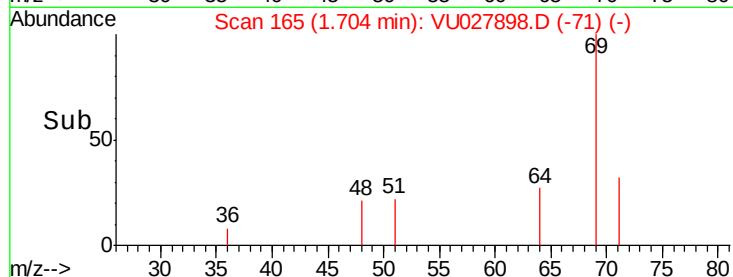
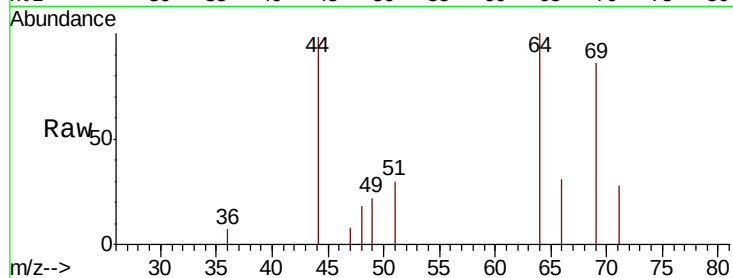
Ion Ratio Lower Upper

64 100

66 31.0 21.8 40.6

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#9

Trichlorofluoromethane

Concen: 0.353 ug/L

RT: 1.89 min Scan# 223

Delta R.T. -0.00 min

Lab File: VU027898.D

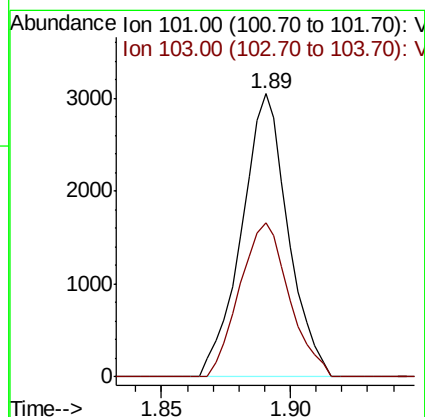
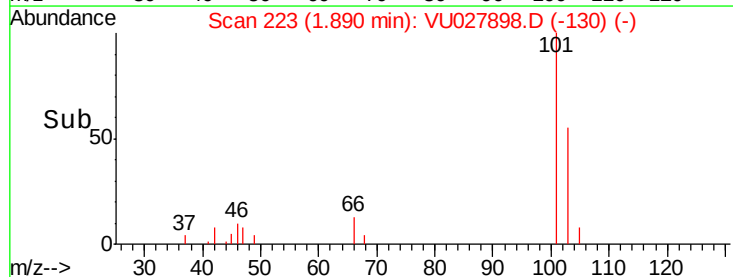
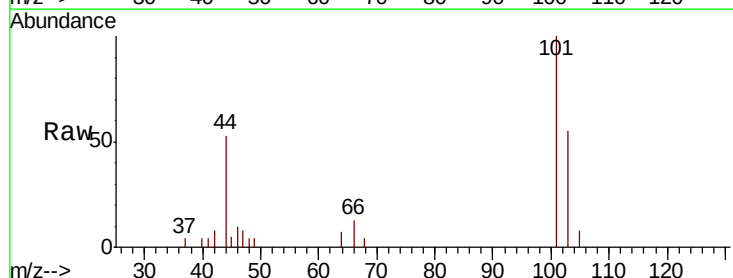
Acq: 01 Nov 2018 12:48

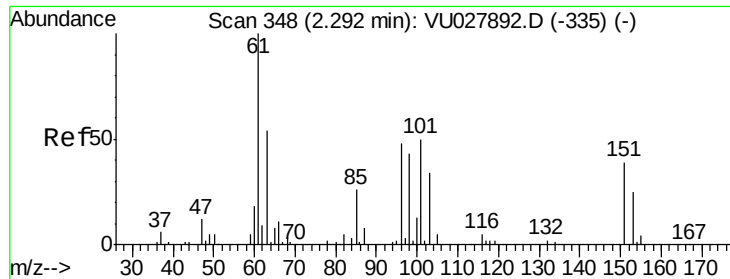
Tgt Ion: 101 Resp: 3839

Ion Ratio Lower Upper

101 100

103 57.9 51.4 77.0





#10

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

Concen: 0.319 ug/L

RT: 2.29 min Scan# 347

Delta R.T. -0.00 min

Lab File: VU027898.D

Acq: 01 Nov 2018 12:48

Instrument :

MSVOA_U

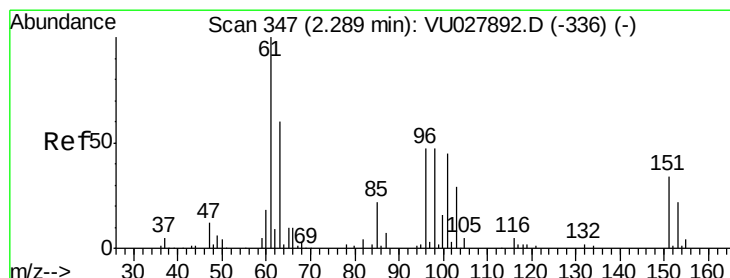
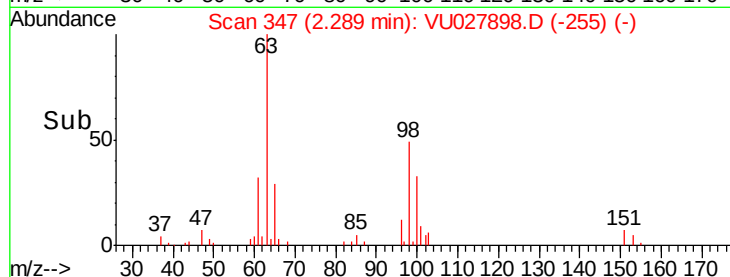
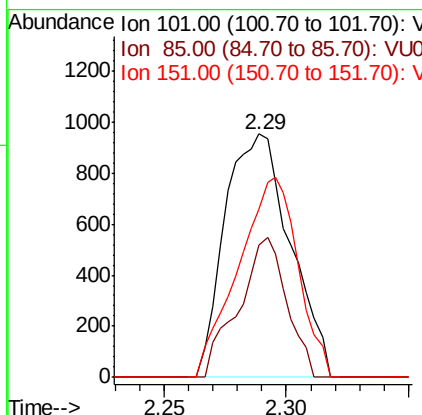
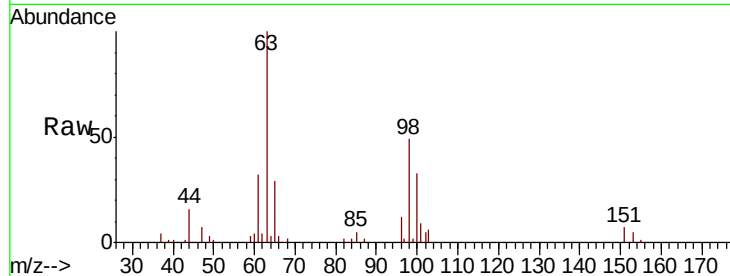
ClientSampled :

MDL05

Tot Ion	Ratio	Lower	Upper
101	100		
85	42.2	37.1	55.7
151	0.0	59.9	89.9#

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 0.339 ug/L

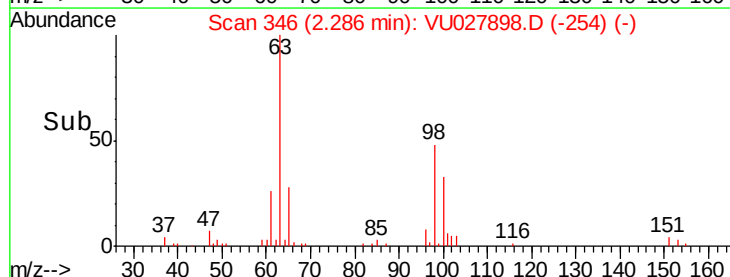
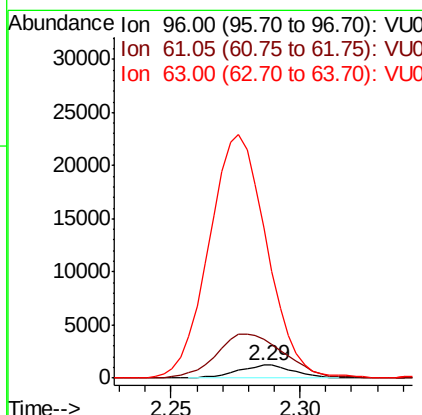
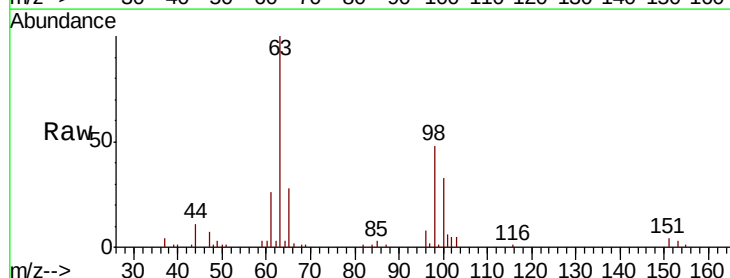
RT: 2.29 min Scan# 346

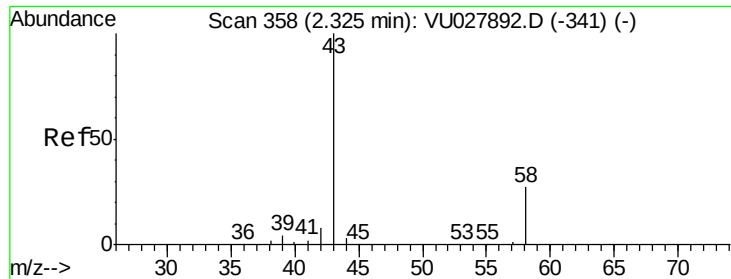
Delta R.T. -0.00 min

Lab File: VU027898.D

Acq: 01 Nov 2018 12:48

Tgt Ion	Ratio	Lower	Upper
96	100		
61	307.3	141.1	262.1#
63	1180.5	113.0	209.9#





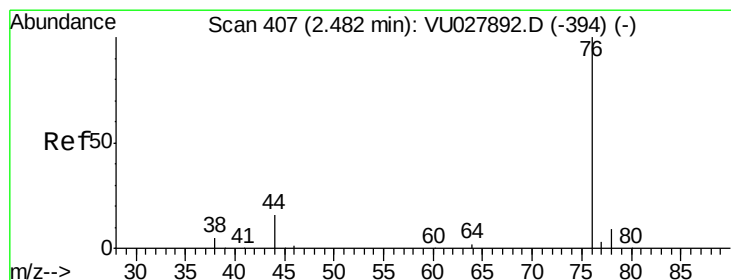
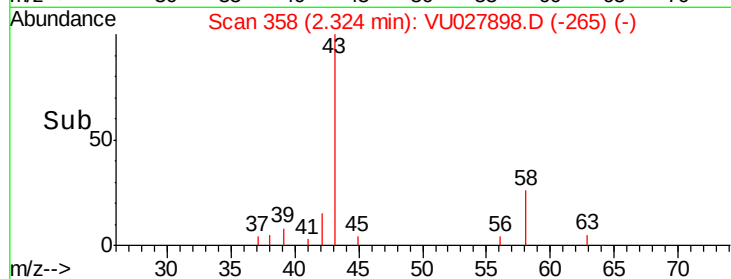
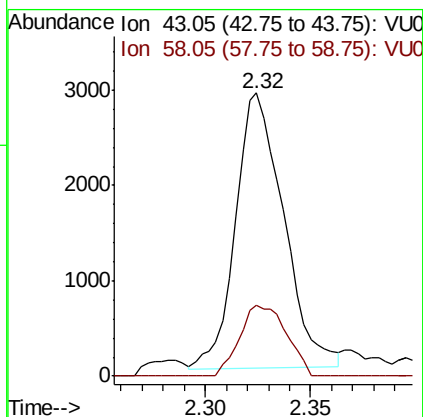
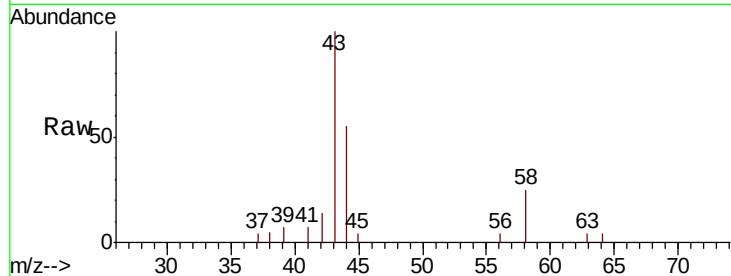
#13
Acetone
Concen: 3.688 ug/L
RT: 2.32 min Scan# 358
Delta R.T. -0.00 min
Lab File: VU027898.D
Acq: 01 Nov 2018 12:48

Instrument :
MSVOA_U
ClientSampleId :
MDL05

Tot Ion: 43 Resp: 4567
Ion Ratio Lower Upper
43 100
58 25.0 0.0 61.4

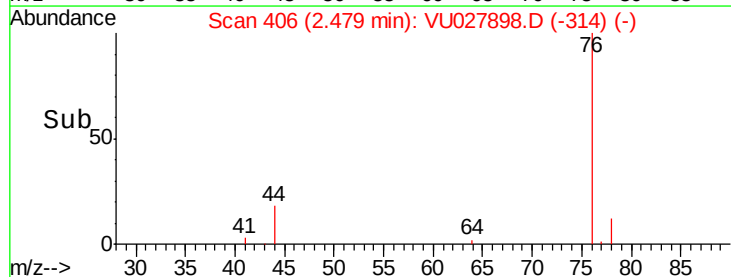
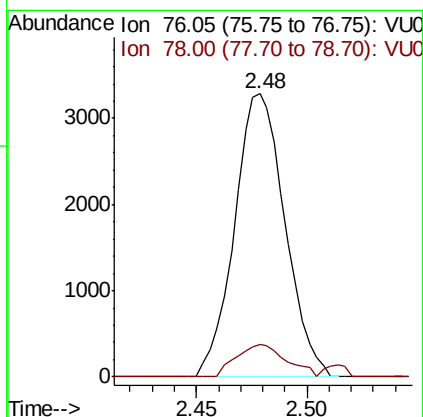
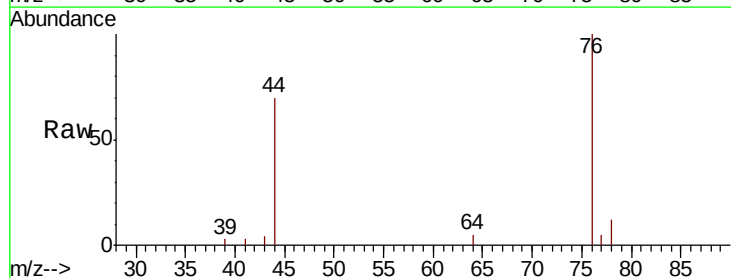
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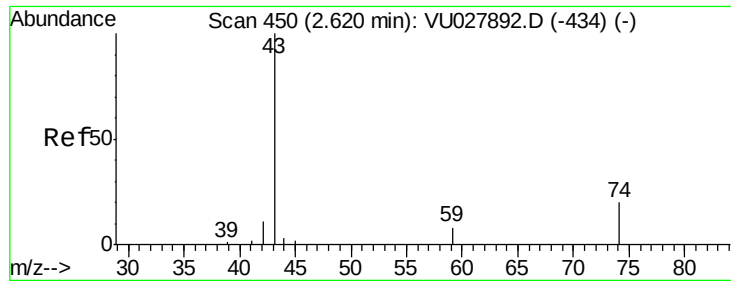
MMDadoda
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#14
Carbon disulfide
Concen: 0.277 ug/L
RT: 2.48 min Scan# 406
Delta R.T. -0.00 min
Lab File: VU027898.D
Acq: 01 Nov 2018 12:48

Tgt Ion: 76 Resp: 5185
Ion Ratio Lower Upper
76 100
78 11.7 7.5 11.3#





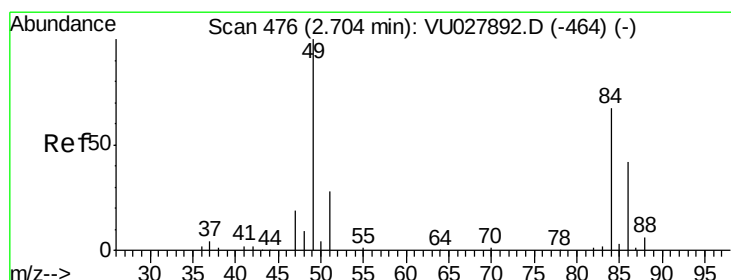
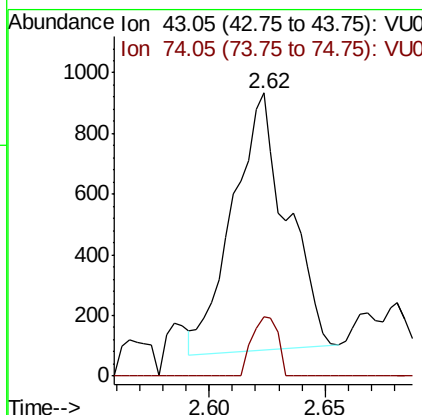
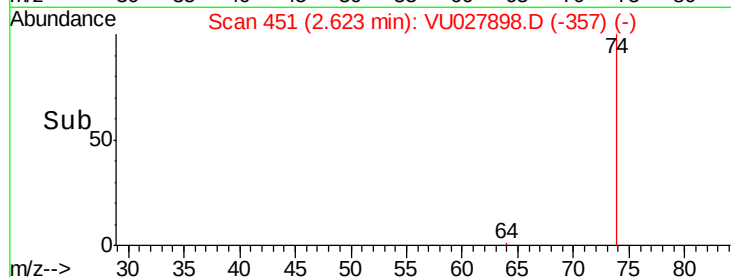
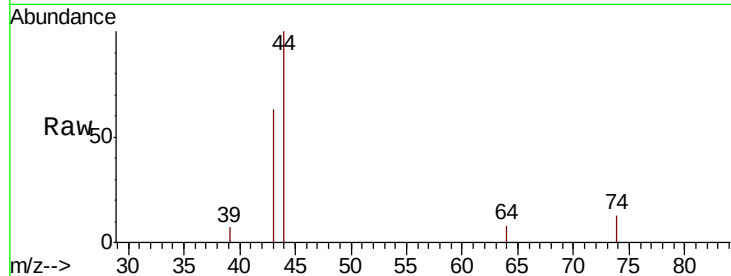
#15
Methyl Acetate
Concen: 0.417 ug/L
RT: 2.62 min Scan# 451
Delta R.T. 0.00 min
Lab File: VU027898.D
Acq: 01 Nov 2018 12:48

Instrument :
MSVOA_U
ClientSampled :
MDL05

Tot Ion: 43 Resp: 1382
Ion Ratio Lower Upper
43 100
74 11.0 14.9 22.3#

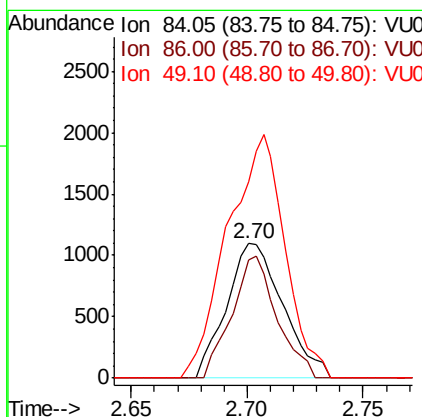
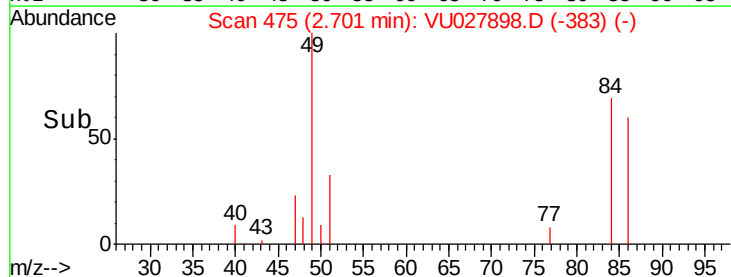
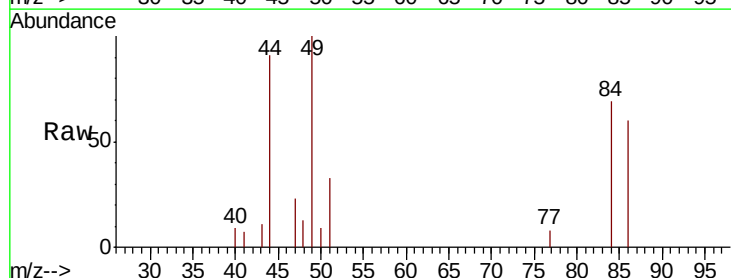
Manual Integrations
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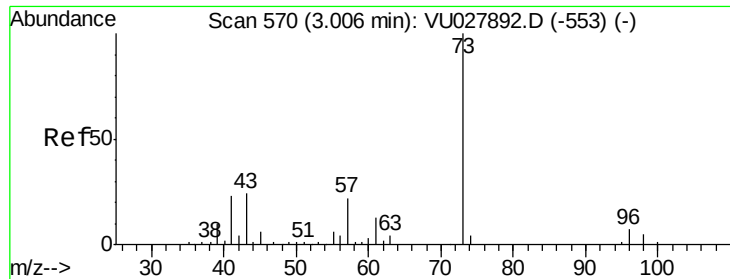
MMDadoda
11/5/2018 4:10:25 PM



#16
Methylene chloride
Concen: 0.314 ug/L
RT: 2.70 min Scan# 475
Delta R.T. -0.00 min
Lab File: VU027898.D
Acq: 01 Nov 2018 12:48

Tgt Ion: 84 Resp: 1847
Ion Ratio Lower Upper
84 100
86 87.7 46.7 86.7#
49 146.0 101.3 188.1





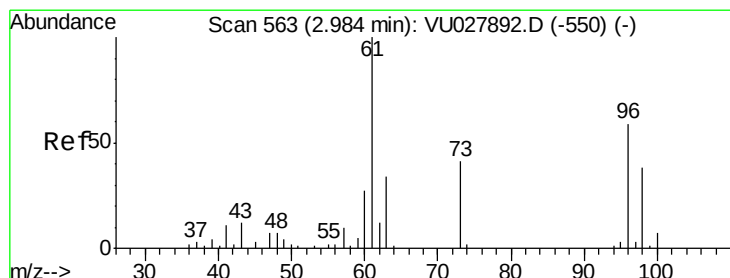
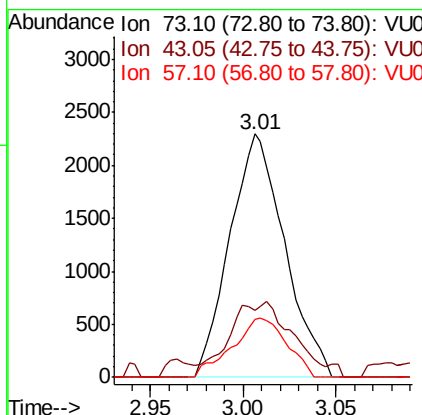
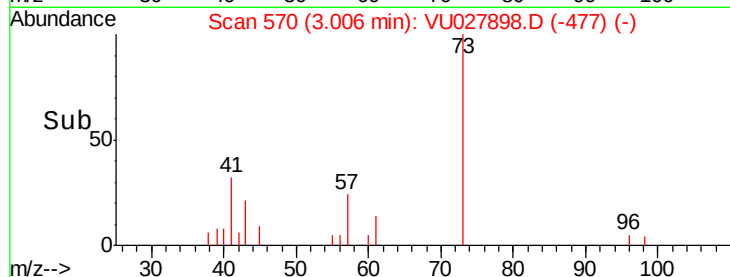
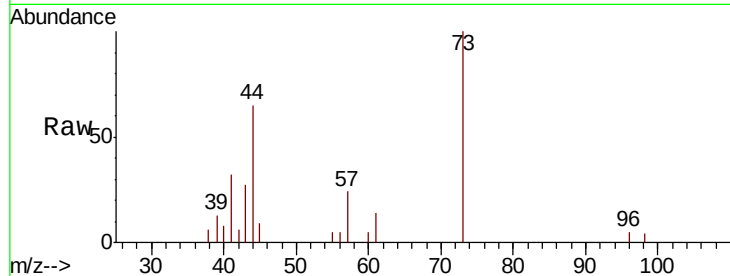
#17
Methyl tert-butyl Ether
Concen: 0.303 ug/L
RT: 3.01 min Scan# 570
Delta R.T. -0.00 min
Lab File: VU027898.D
Acq: 01 Nov 2018 12:48

Instrument :
MSVOA_U
ClientSampled :
MDL05

Tot Ion: 73 Resp: 4728
Ion Ratio Lower Upper
73 100
43 11.6 18.7 28.1#
57 24.1 18.7 28.1

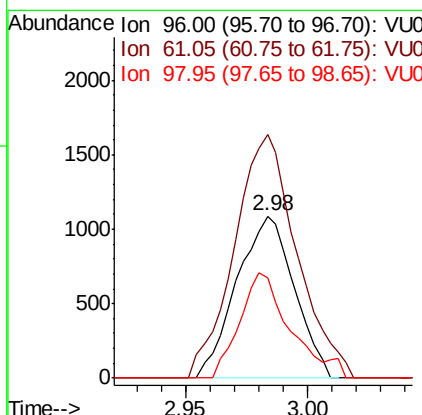
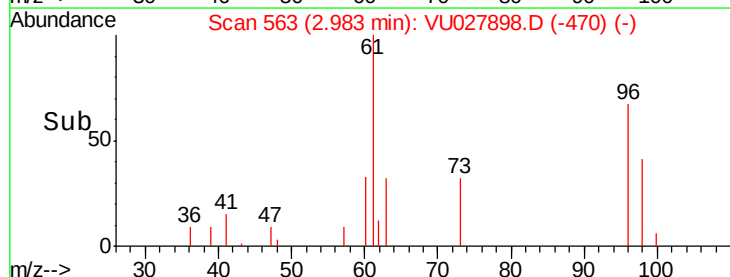
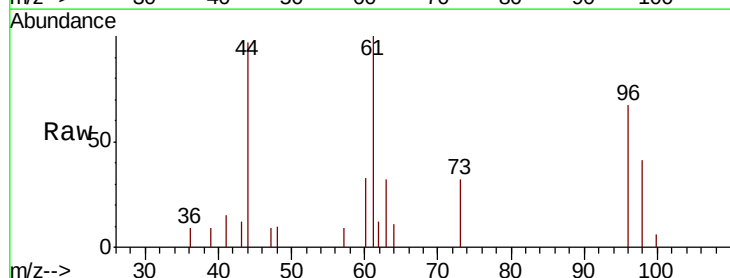
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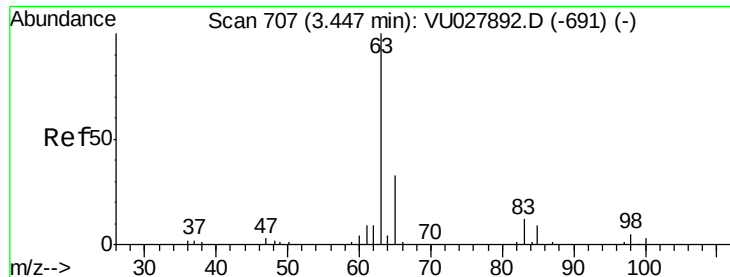
MMDadoda
11/5/2018 4:10:25 PM



#18
trans-1,2-Dichloroethene
Concen: 0.319 ug/L
RT: 2.98 min Scan# 563
Delta R.T. -0.00 min
Lab File: VU027898.D
Acq: 01 Nov 2018 12:48

Tgt Ion: 96 Resp: 1776
Ion Ratio Lower Upper
96 100
61 150.1 115.2 214.0
98 61.8 44.0 81.8





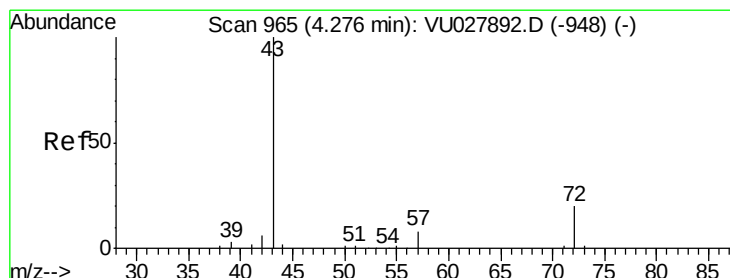
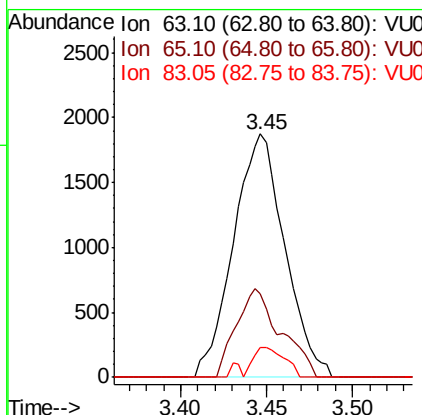
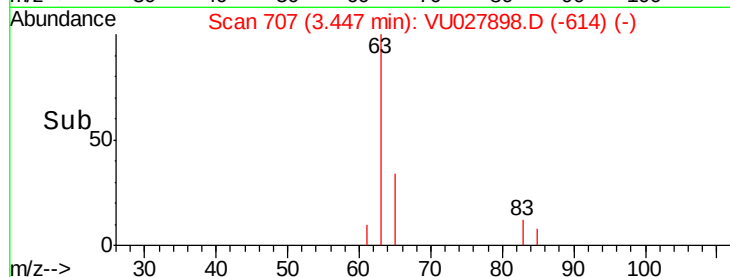
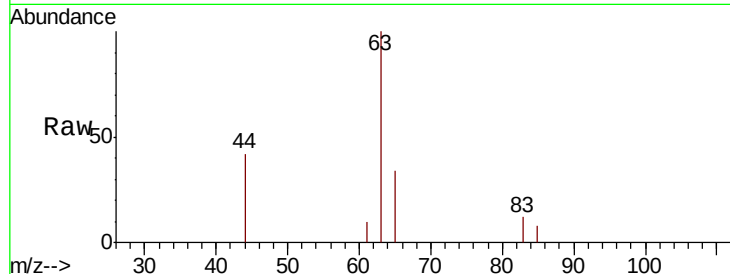
#19
 1,1-Dichloroethane
 Concen: 0.331 ug/L
 RT: 3.45 min Scan# 707
 Delta R.T. -0.00 min
 Lab File: VU027898.D
 Acq: 01 Nov 2018 12:48

Instrument :
 MSVOA_U
 ClientSampled :
 MDL05

Tot Ion:	63	Resp:	3885
Ion	Ratio	Lower	Upper
63	100		
65	34.4	21.8	40.4
83	12.1	9.4	17.4

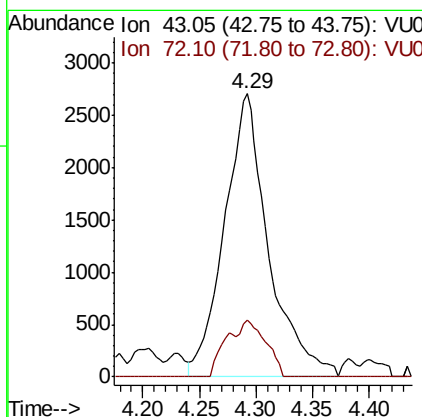
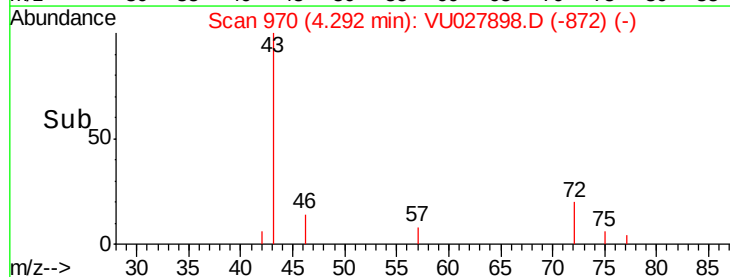
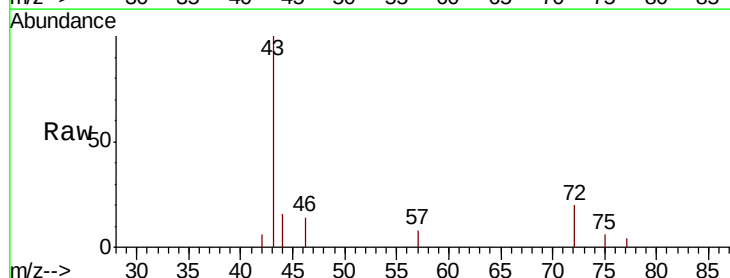
Manual Integrations
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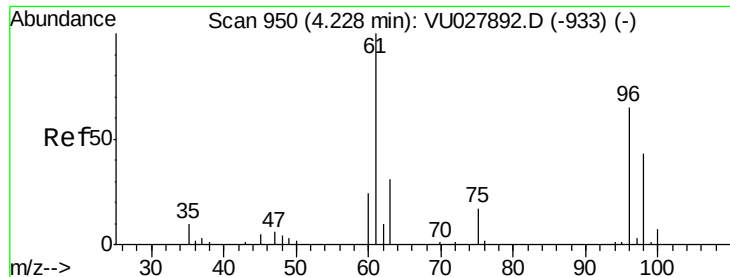
MMDadoda
 11/5/2018 4:10:25 PM



#21
 2-Butanone
 Concen: 3.399 ug/L
 RT: 4.29 min Scan# 970
 Delta R.T. 0.02 min
 Lab File: VU027898.D
 Acq: 01 Nov 2018 12:48

Tgt Ion:	43	Resp:	7318
Ion	Ratio	Lower	Upper
43	100		
72	17.8	10.9	32.9





#22

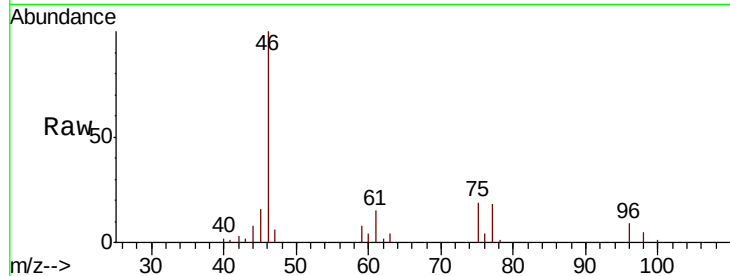
cis-1,2-Dichloroethene
Concen: 0.295 ug/L
RT: 4.22 min Scan# 949
Delta R.T. -0.00 min
Lab File: VU027898.D
Acq: 01 Nov 2018 12:48

Instrument :
MSVOA_U
ClientSampleId :
MDL05

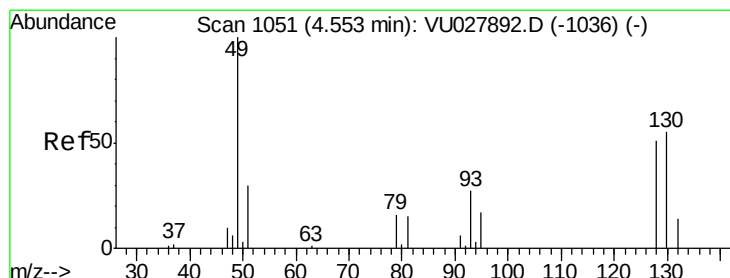
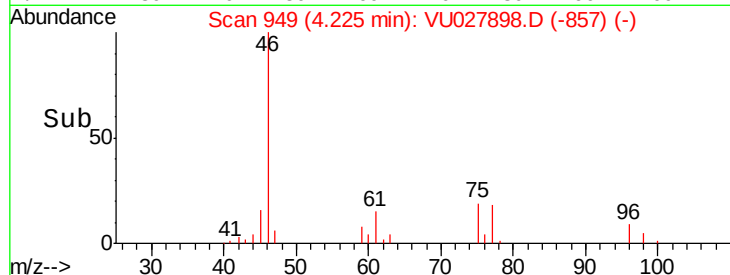
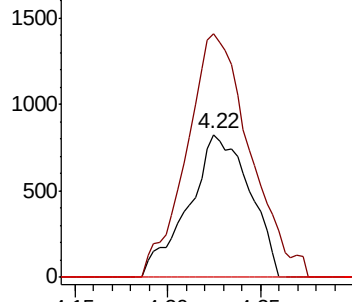
Tot Ion	Ratio	Lower	Upper
96	100		
61	170.3	104.0	193.2
68	0.0	0.0	0.0

Manual Integrations
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11/5/2018 4:10:25 PM



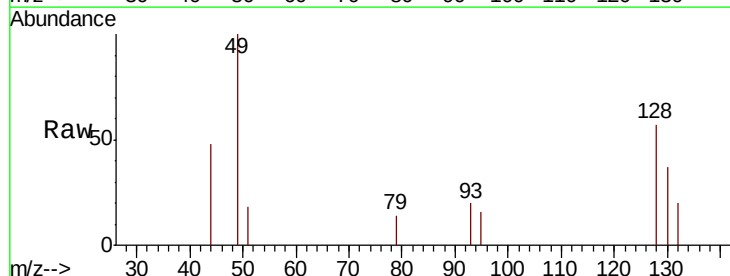
Abundance Ion 96.00 (95.70 to 96.70): VU027898.D (-933) (-)



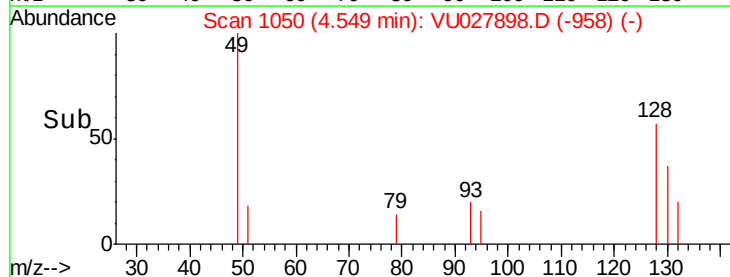
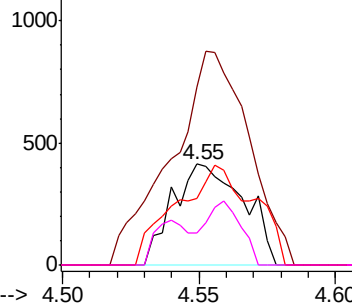
#23

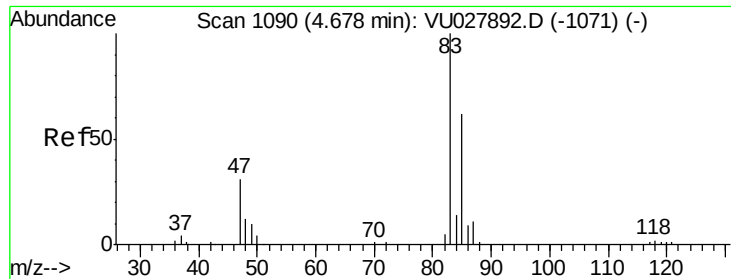
Bromochloromethane
Concen: 0.280 ug/L
RT: 4.55 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VU027898.D
Acq: 01 Nov 2018 12:48

Tgt Ion	Ratio	Lower	Upper
128	100		
49	175.8	142.0	263.8
130	65.5	86.1	159.9
51	31.6	50.4	75.6



Abundance Ion 127.90 (127.60 to 128.60): VU027898.D (-1036) (-)





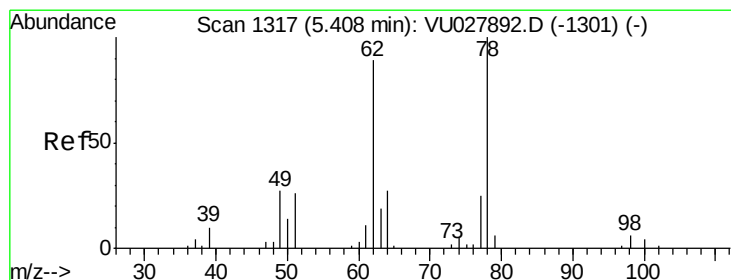
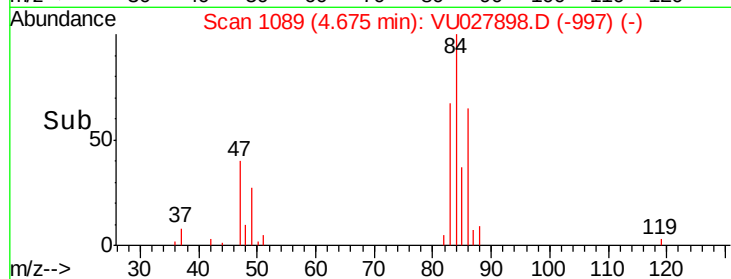
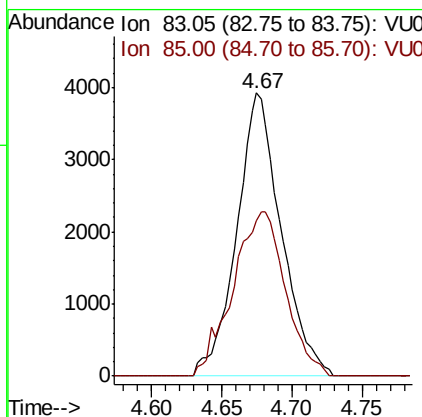
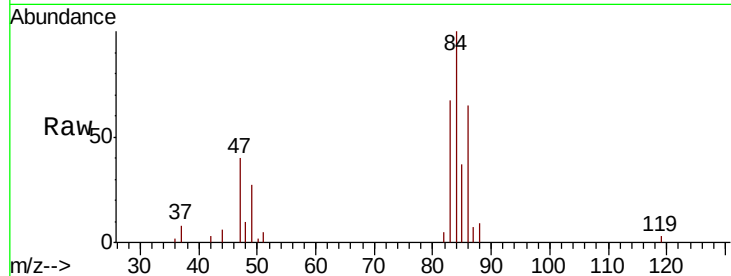
#25
Chloroform
Concen: 0.725 ug/L
RT: 4.67 min Scan# 1089
Delta R.T. -0.00 min
Lab File: VU027898.D
Acq: 01 Nov 2018 12:48

Instrument :
MSVOA_U
ClientSampled :
MDL05

Tot Ion	83	Resp	8637
Ion Ratio	100	Lower	Upper
85	55.1	44.0	81.8

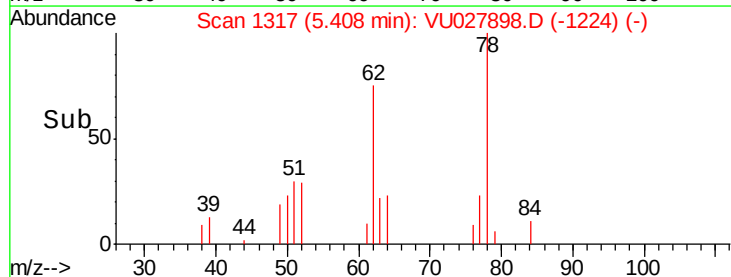
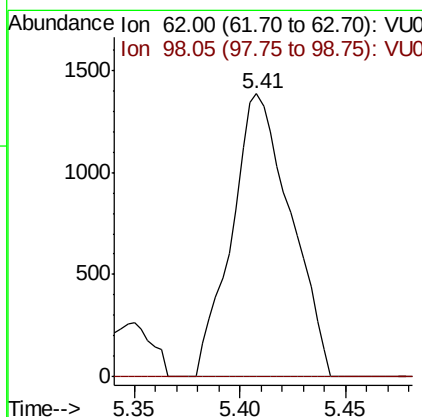
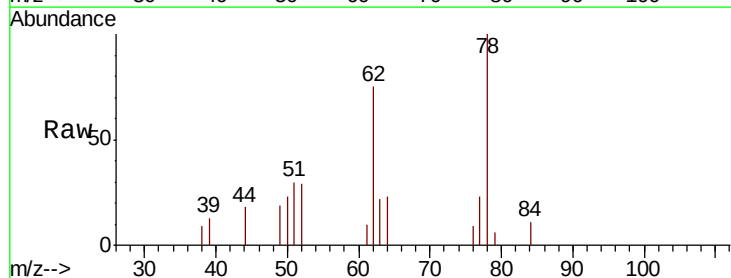
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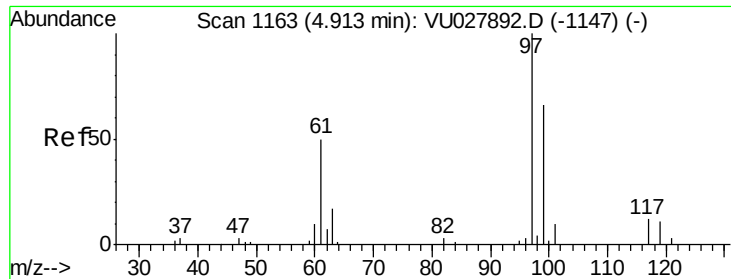
MMDadoda
11/5/2018 4:10:25 PM



#27
1,2-Dichloroethane
Concen: 0.324 ug/L
RT: 5.41 min Scan# 1317
Delta R.T. -0.00 min
Lab File: VU027898.D
Acq: 01 Nov 2018 12:48

Tgt Ion	62	Resp	2693
Ion Ratio	100	Lower	Upper
98	0.0	6.3	9.5#





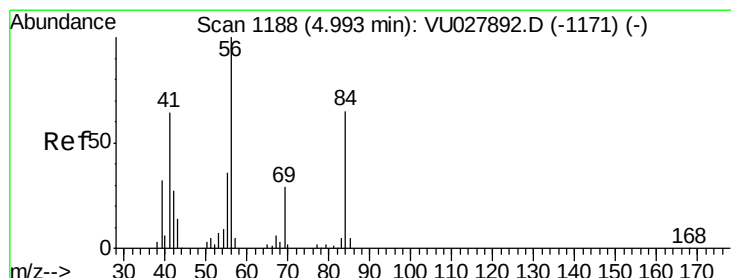
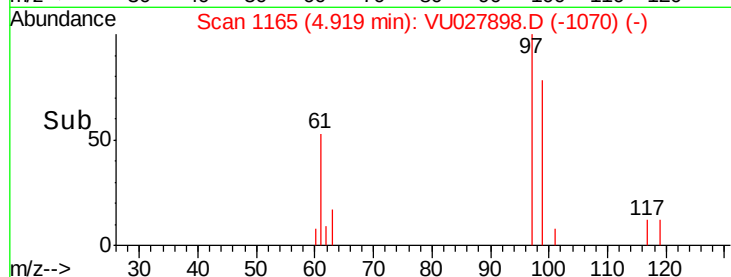
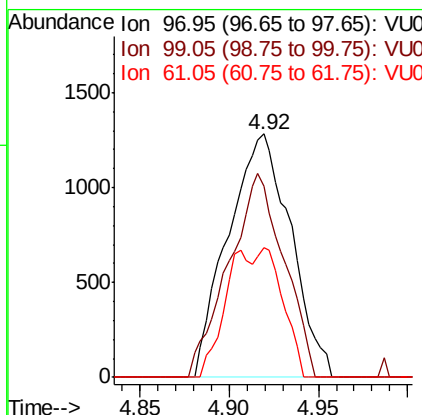
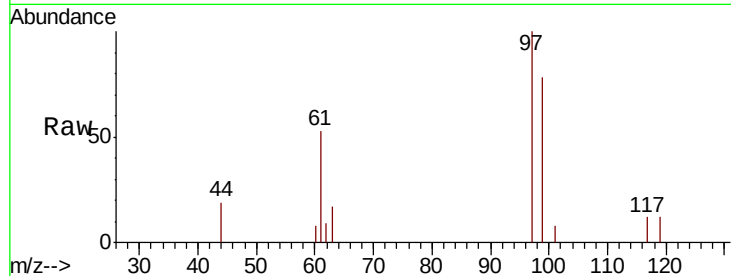
#29
 1,1,1-Trichloroethane
 Concen: 0.296 ug/L
 RT: 4.92 min Scan# 1165
 Delta R.T. 0.01 min
 Lab File: VU027898.D
 Acq: 01 Nov 2018 12:48

Instrument :
 MSVOA_U
 ClientSampled :
 MDL05

Tot Ion	Ratio	Lower	Upper
97	100		
99	73.8	50.6	76.0
61	23.2	35.8	53.6

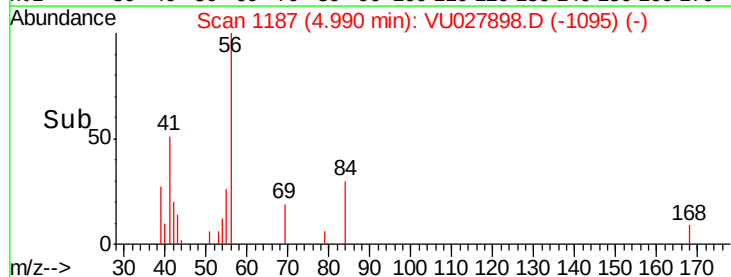
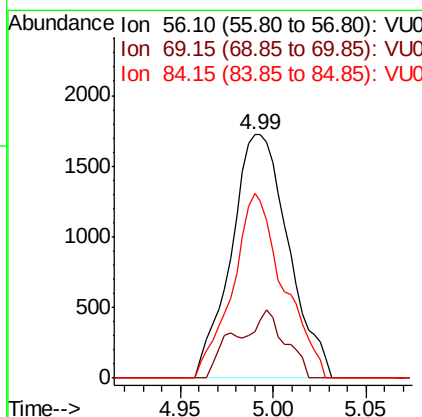
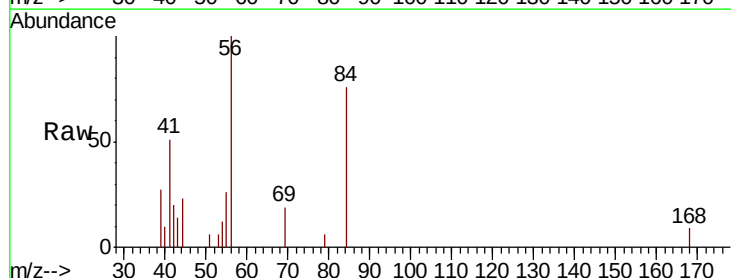
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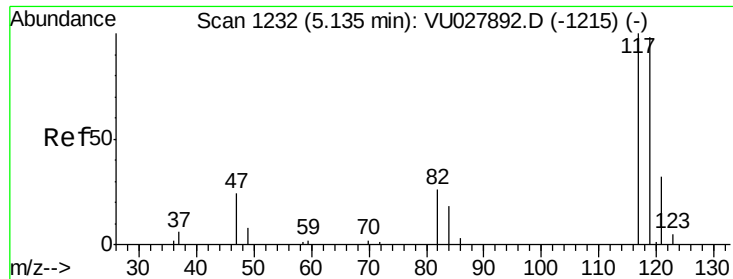
MMDadoda
 11/5/2018 4:10:25 PM



#30
 Cyclohexane
 Concen: 0.297 ug/L
 RT: 4.99 min Scan# 1187
 Delta R.T. -0.00 min
 Lab File: VU027898.D
 Acq: 01 Nov 2018 12:48

Tgt Ion	Ratio	Lower	Upper
56	100		
69	16.0	22.7	34.1
84	67.5	58.1	87.1





#31

Carbon tetrachloride

Concen: 0.301 ug/L

RT: 5.13 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VU027898.D

Acq: 01 Nov 2018 12:48

Instrument :

MSVOA_U

ClientSampled :

MDL05

Tot Ion:117 Resp: 2734

Ion Ratio Lower Upper

117 100

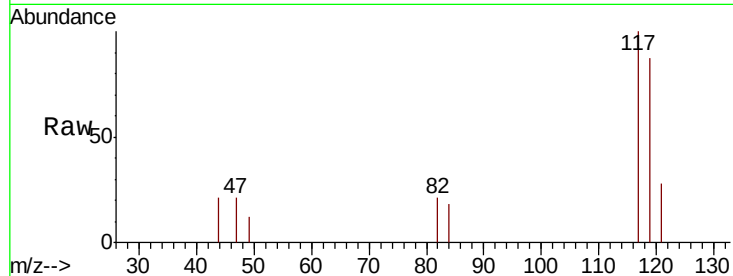
119 103.8 77.1 115.7

Manual Integrations

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Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.13

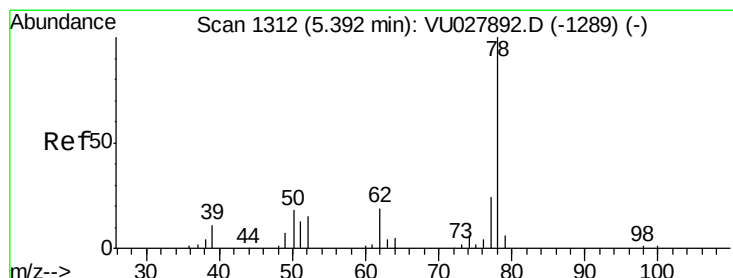
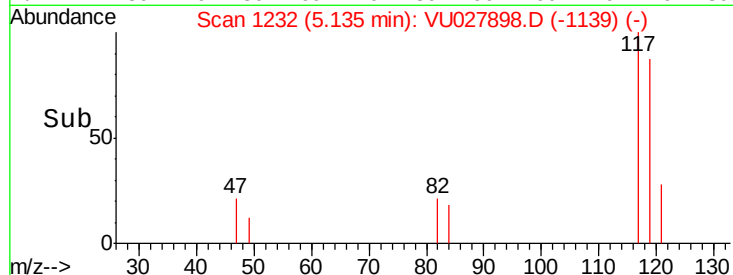
1500

1000

500

0

Time-->



#33

Benzene

Concen: 0.313 ug/L

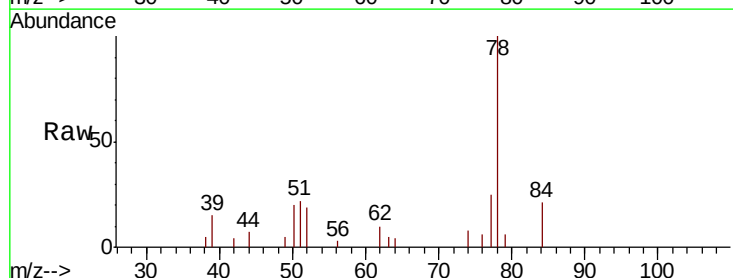
RT: 5.39 min Scan# 1311

Delta R.T. -0.00 min

Lab File: VU027898.D

Acq: 01 Nov 2018 12:48

Tgt Ion: 78 Resp: 8126



Abundance Ion 78.10 (77.80 to 78.80): VU0

5.39

4000

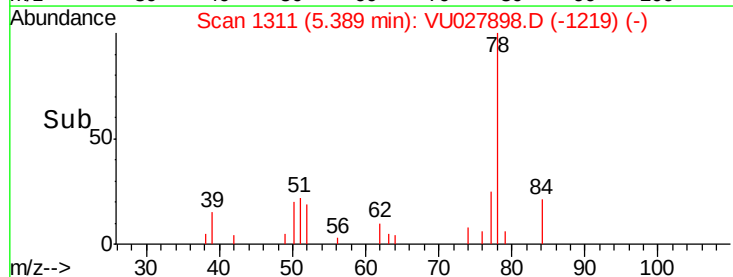
3000

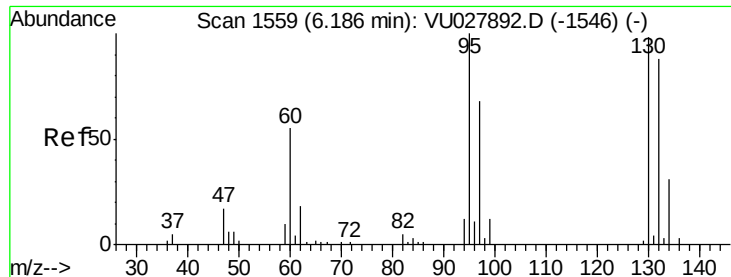
2000

1000

0

Time-->





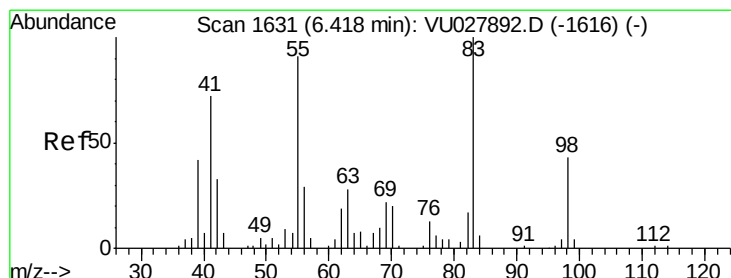
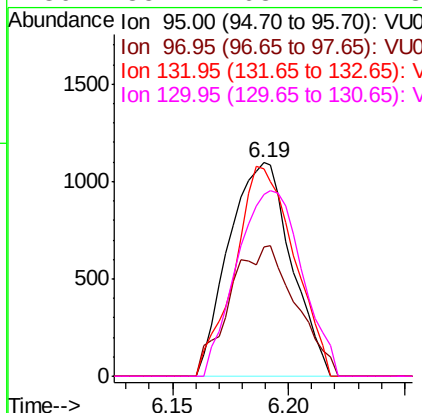
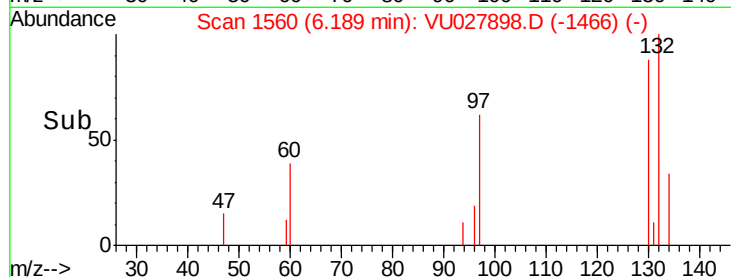
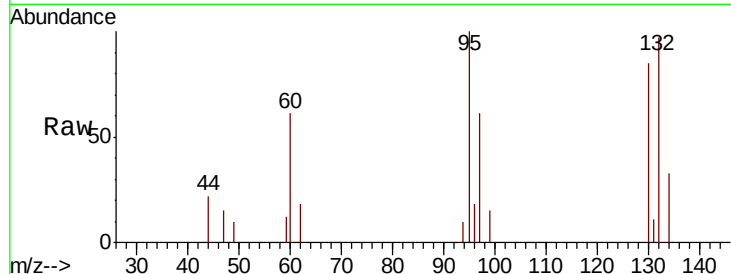
#34
 Trichloroethene
 Concen: 0.303 ug/L
 RT: 6.19 min Scan# 1560
 Delta R.T. 0.00 min
 Lab File: VU027898.D
 Acq: 01 Nov 2018 12:48

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

Tot Ion	95	Resp:	2051
Ion	Ratio	Lower	Upper
95	100		
97	60.5	44.0	81.6
132	96.9	63.3	117.5
130	85.1	63.1	117.3

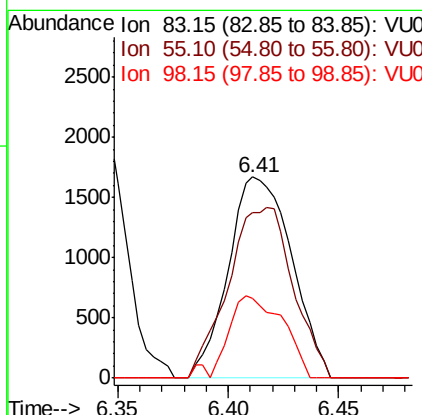
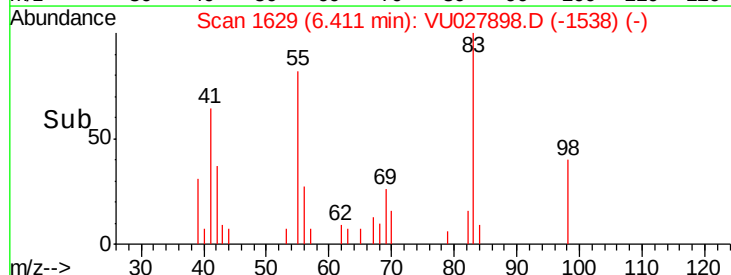
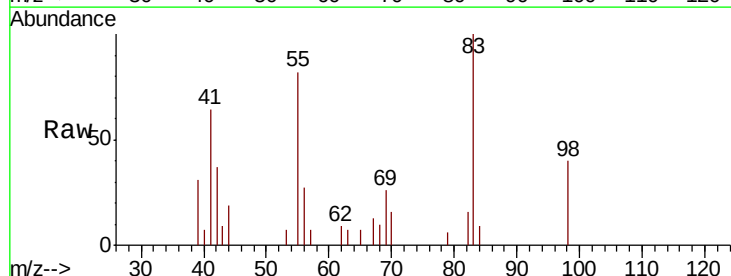
Manual Integrations
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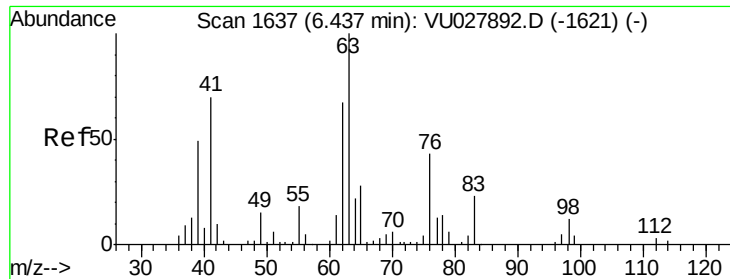
MMDadoda
 11/5/2018 4:10:25 PM



#35
 Methylcyclohexane
 Concen: 0.289 ug/L
 RT: 6.41 min Scan# 1629
 Delta R.T. -0.01 min
 Lab File: VU027898.D
 Acq: 01 Nov 2018 12:48

Tgt Ion	83	Resp:	3321
Ion	Ratio	Lower	Upper
83	100		
55	86.8	73.4	110.0
98	35.7	35.3	52.9





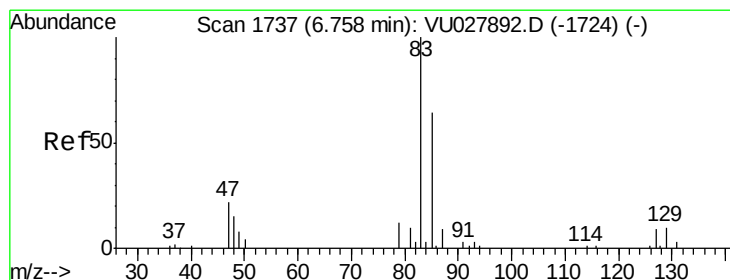
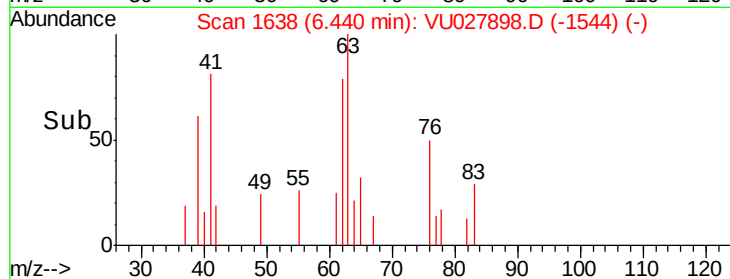
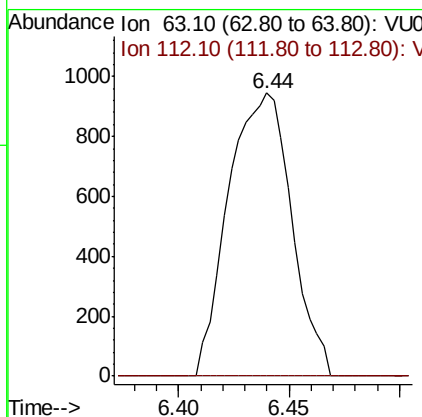
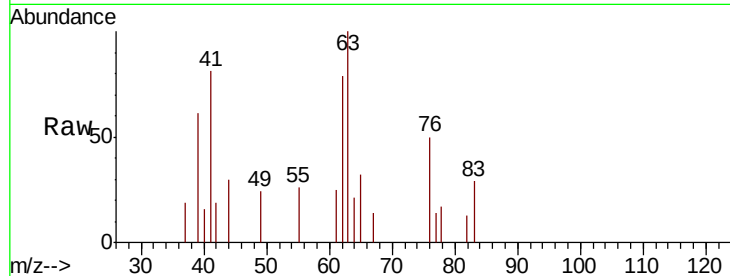
#37
 1,2-Dichloropropane
 Concen: 0.253 ug/L
 RT: 6.44 min Scan# 1638
 Delta R.T. 0.00 min
 Lab File: VU027898.D
 Acq: 01 Nov 2018 12:48

Instrument :
 MSVOA_U
 ClientSampled :
 MDL05

Tot Ion: 63 Resp: 1876
 Ion Ratio Lower Upper
 63 100
 112 0.0 2.6 3.8#

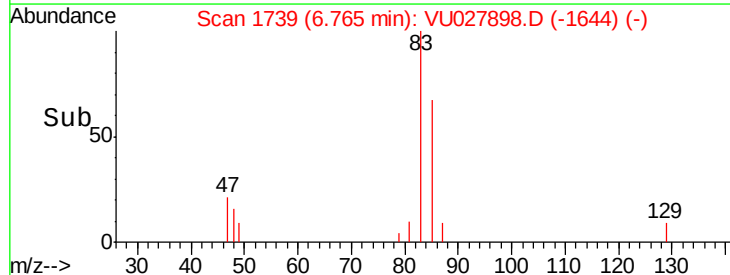
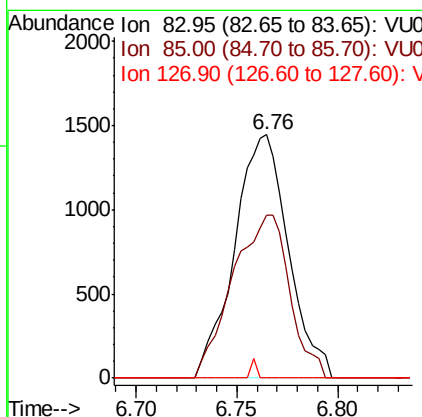
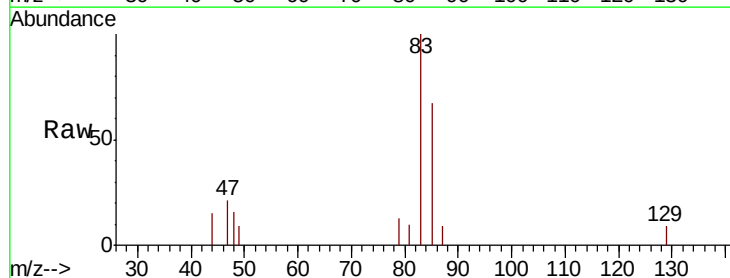
Manual Integrations
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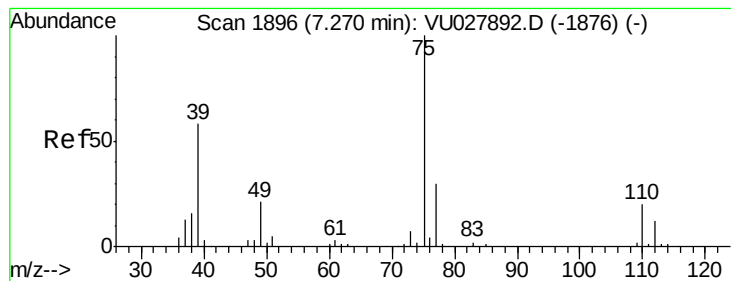
MMDadoda
 11/5/2018 4:10:25 PM



#38
 Bromodichloromethane
 Concen: 0.311 ug/L
 RT: 6.76 min Scan# 1739
 Delta R.T. 0.01 min
 Lab File: VU027898.D
 Acq: 01 Nov 2018 12:48

Tgt Ion: 83 Resp: 2694
 Ion Ratio Lower Upper
 83 100
 85 66.7 43.8 81.4
 127 0.0 6.4 9.6#





#39

cis-1,3-Dichloropropene

Concen: 0.259 ug/L

RT: 7.28 min Scan# 1898

Delta R.T. 0.01 min

Lab File: VU027898.D

Acq: 01 Nov 2018 12:48

Instrument :

MSVOA_U

ClientSampleId :

MDL05

Tot Ion: 75 Resp: 2745

Ion Ratio Lower Upper

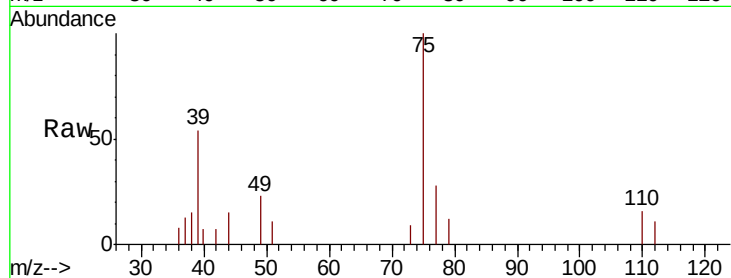
75 100

77 28.2 22.2 41.2

Manual Integrations
APPROVED

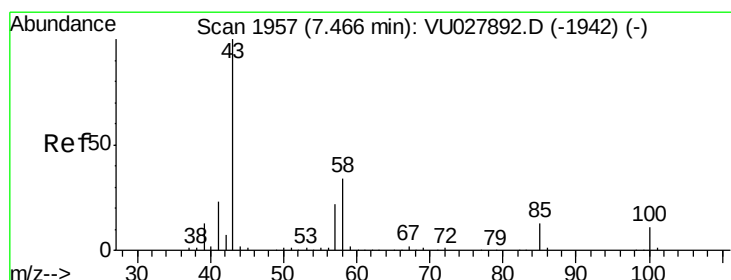
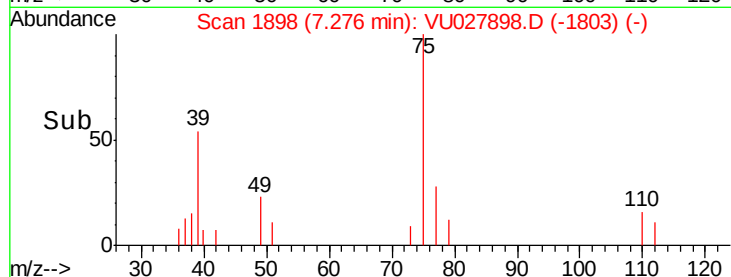
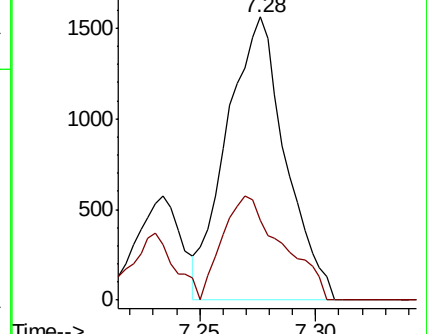
MMDadoda

11/5/2018 4:10:25 PM



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0



#40

4-Methyl-2-pentanone

Concen: 3.012 ug/L

RT: 7.47 min Scan# 1958

Delta R.T. 0.00 min

Lab File: VU027898.D

Acq: 01 Nov 2018 12:48

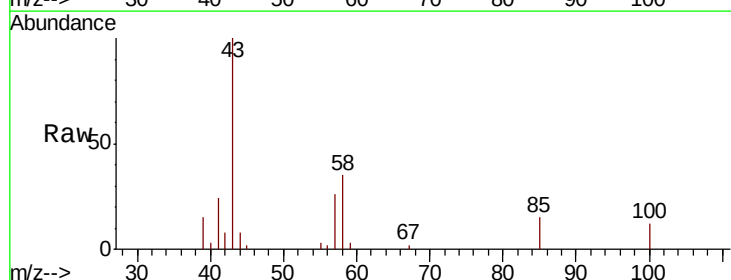
Tgt Ion: 43 Resp: 15752

Ion Ratio Lower Upper

43 100

58 33.6 28.5 42.7

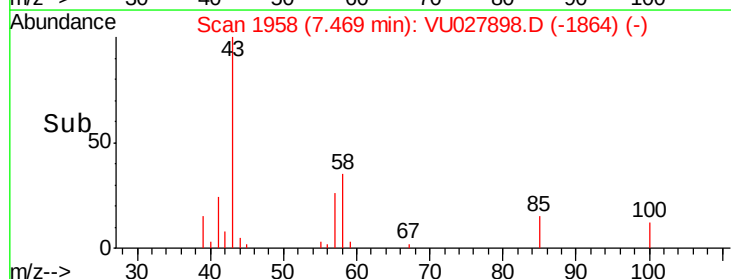
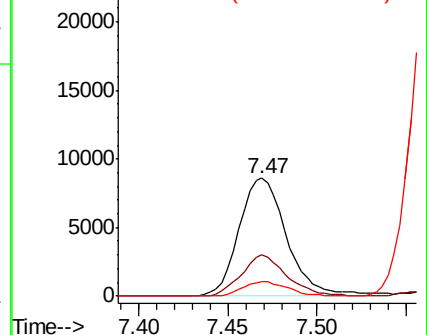
100 11.6 8.8 13.2

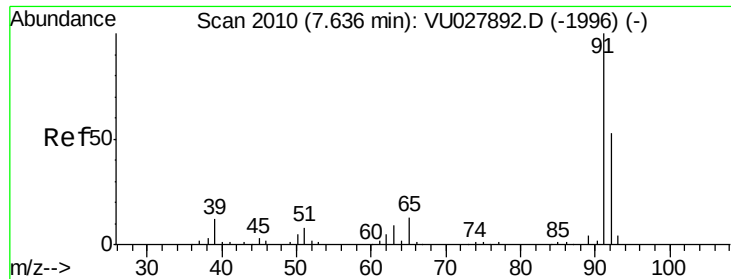


Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 100.15 (99.85 to 100.85): VU0





#42

Toluene

Concen: 0.299 ug/L

RT: 7.64 min Scan# 2011

Delta R.T. 0.00 min

Lab File: VU027898.D

Acq: 01 Nov 2018 12:48

Instrument :

MSVOA_U

ClientSampled :

MDL05

Tot Ion: 91 Resp: 8115

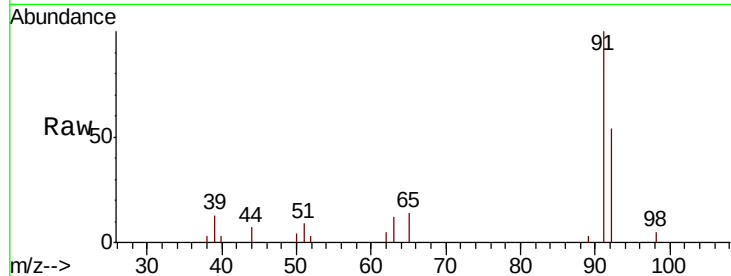
Ion Ratio Lower Upper

91 100

92 54.3 40.3 74.9

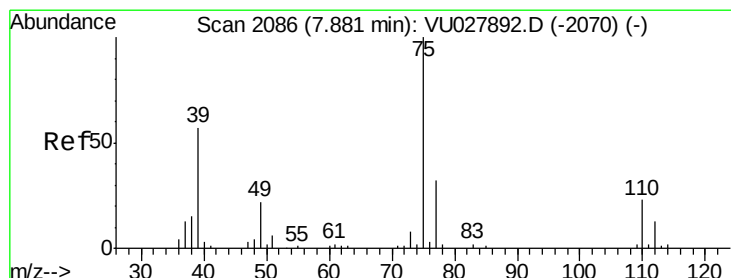
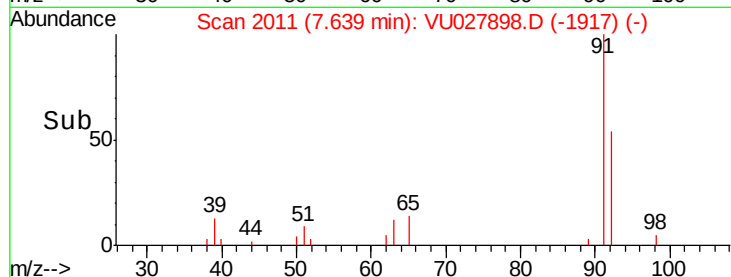
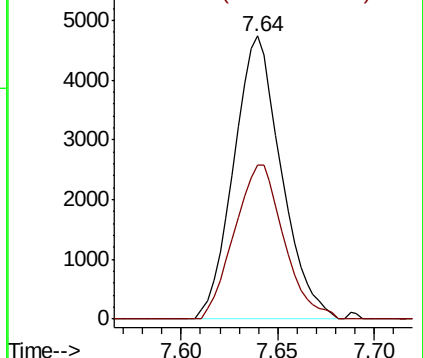
Manual Integrations
APPROVED

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11/5/2018 4:10:25 PM



Abundance Ion 91.15 (90.85 to 91.85): VU027898.D (-1996) (-)

Ion 92.15 (91.85 to 92.85): VU027898.D (-1996) (-)



#44

trans-1,3-Dichloropropene

Concen: 0.265 ug/L

RT: 7.89 min Scan# 2088

Delta R.T. 0.01 min

Lab File: VU027898.D

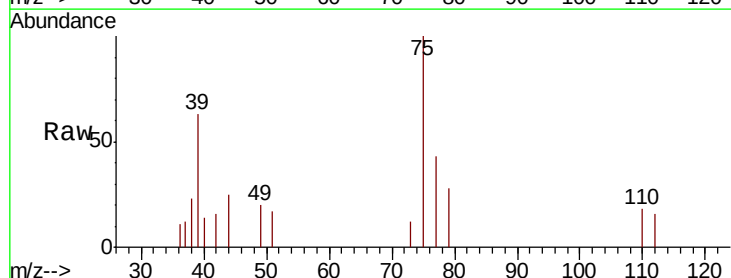
Acq: 01 Nov 2018 12:48

Tgt Ion: 75 Resp: 2416

Ion Ratio Lower Upper

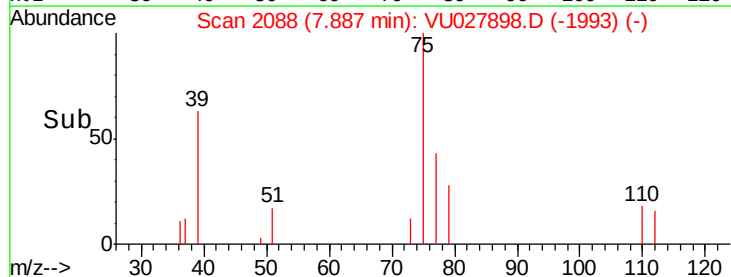
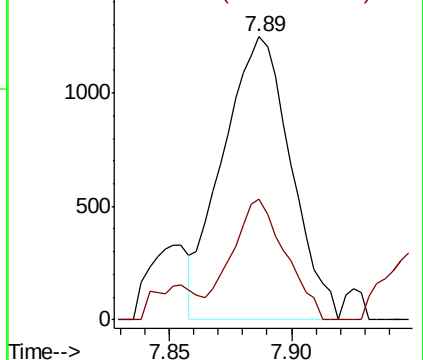
75 100

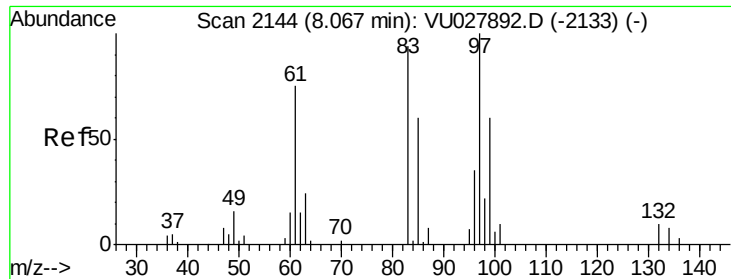
77 42.7 20.5 38.1#



Abundance Ion 75.05 (74.75 to 75.75): VU027898.D (-1993) (-)

Ion 77.05 (76.75 to 77.75): VU027898.D (-1993) (-)





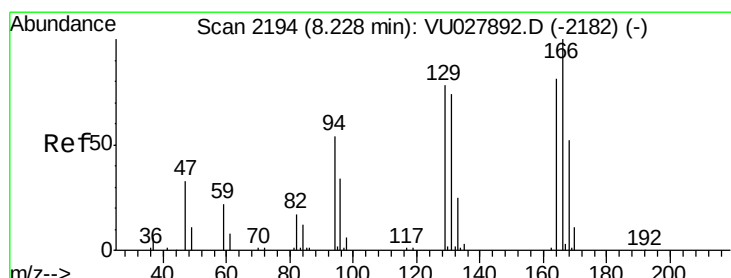
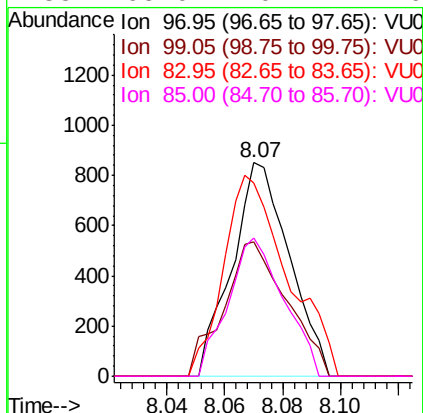
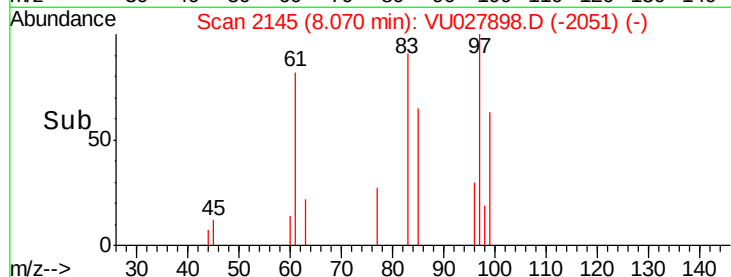
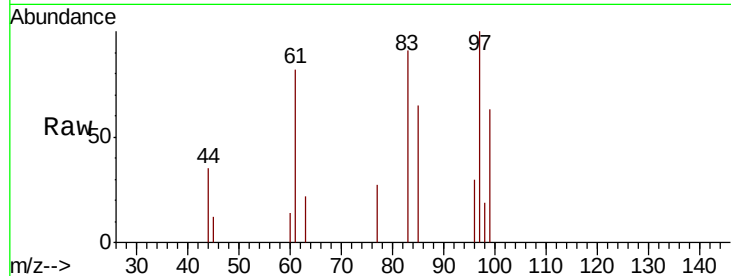
#45
1,1,2-Trichloroethane
Concen: 0.256 ug/L
RT: 8.07 min Scan# 2145
Delta R.T. 0.00 min
Lab File: VU027898.D
Acq: 01 Nov 2018 12:48

Instrument :
MSVOA_U
ClientSampleId :
MDL05

Tot Ion:	97	Resp:	1166
Ion	Ratio	Lower	Upper
97	100		
99	63.2	42.9	79.7
83	90.6	62.2	115.6
85	65.0	40.2	74.6

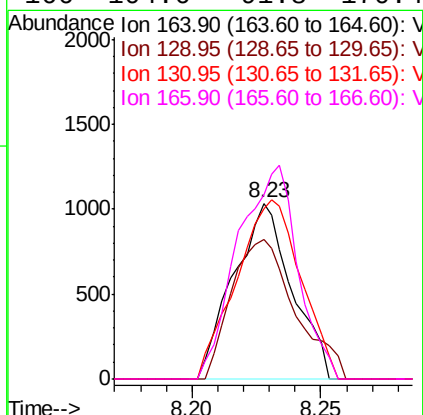
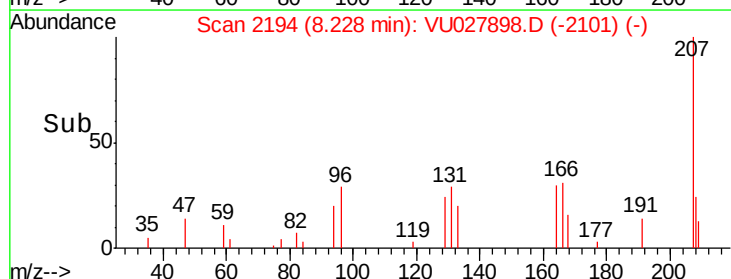
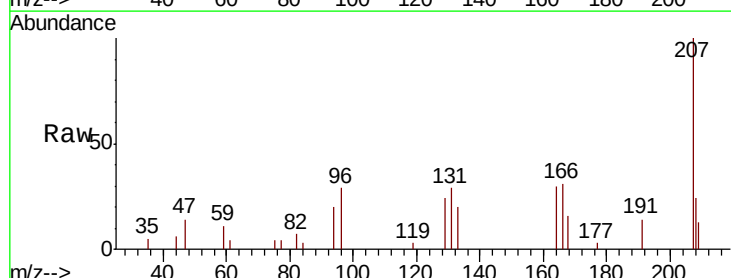
Manual Integrations
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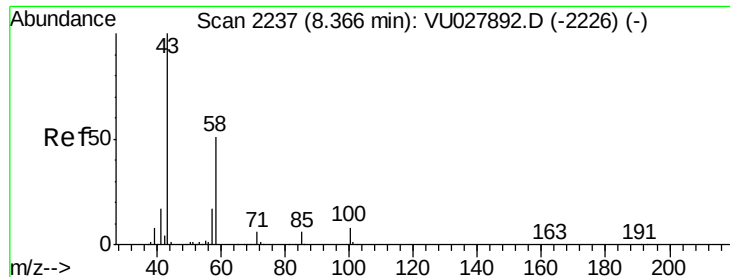
MMDadoda
11/5/2018 4:10:25 PM



#47
Tetrachloroethene
Concen: 0.313 ug/L
RT: 8.23 min Scan# 2194
Delta R.T. -0.00 min
Lab File: VU027898.D
Acq: 01 Nov 2018 12:48

Tgt Ion:	164	Resp:	1627
Ion	Ratio	Lower	Upper
164	100		
129	79.1	64.9	120.5
131	97.1	64.3	119.5
166	104.6	91.8	170.4





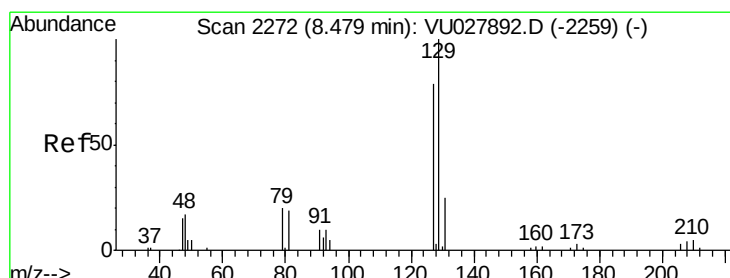
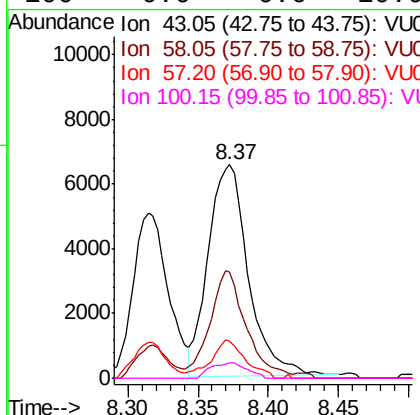
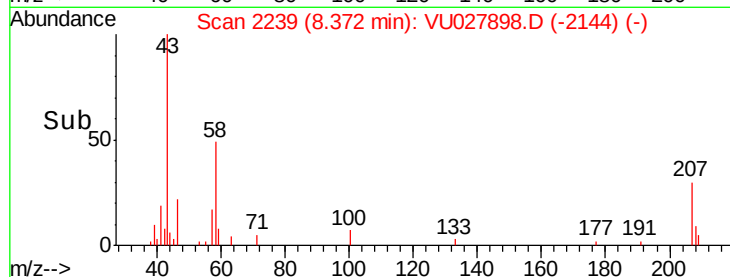
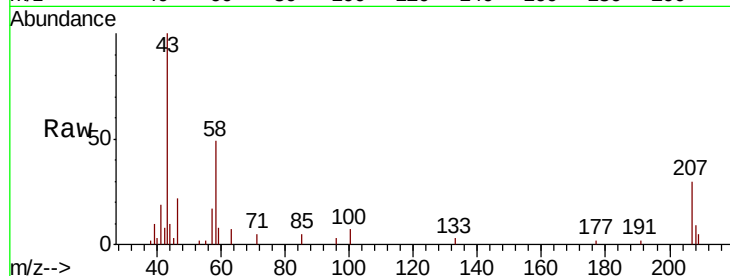
#48
2-Hexanone
Concen: 3.441 ug/L
RT: 8.37 min Scan# 2239
Delta R.T. 0.01 min
Lab File: VU027898.D
Acq: 01 Nov 2018 12:48

Instrument :
MSVOA_U
ClientSampleId :
MDL05

Tot Ion	Ratio	Lower	Upper
43	100		
58	42.2	38.9	58.3
57	15.4	13.3	19.9
100	6.6	6.6	10.0

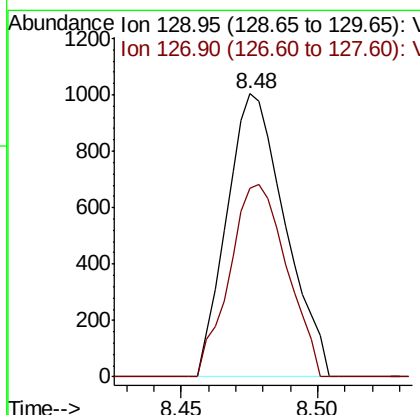
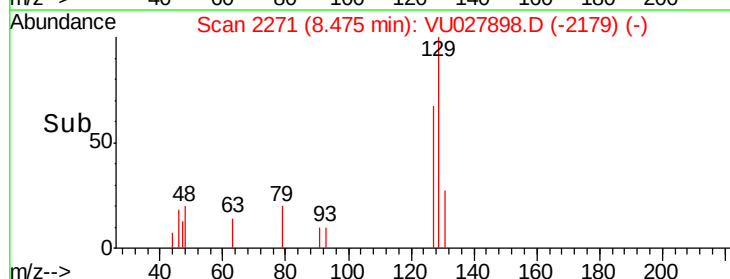
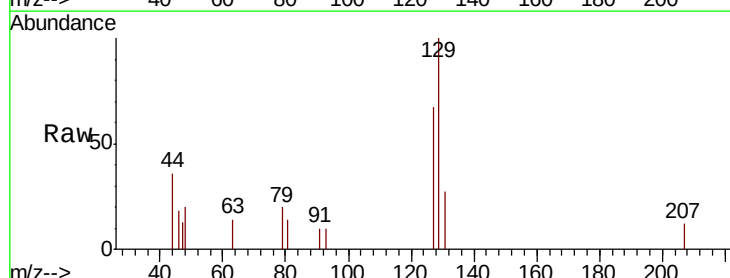
Manual Integrations
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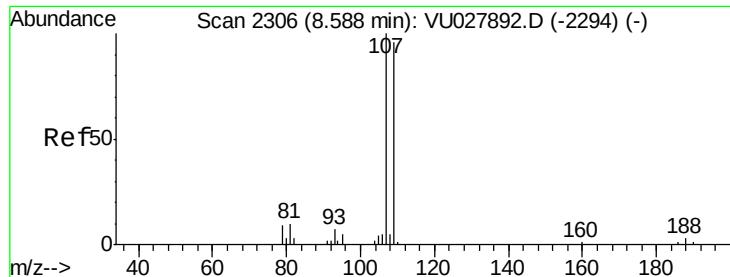
MMDadoda
11/5/2018 4:10:25 PM



#49
Dibromochloromethane
Concen: 0.271 ug/L
RT: 8.48 min Scan# 2271
Delta R.T. -0.00 min
Lab File: VU027898.D
Acq: 01 Nov 2018 12:48

Tgt Ion	Ratio	Lower	Upper
129	100		
127	66.6	54.5	101.1





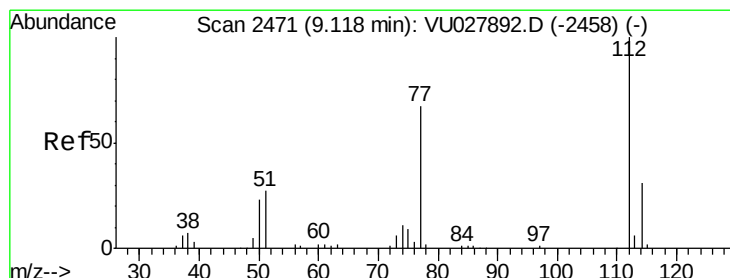
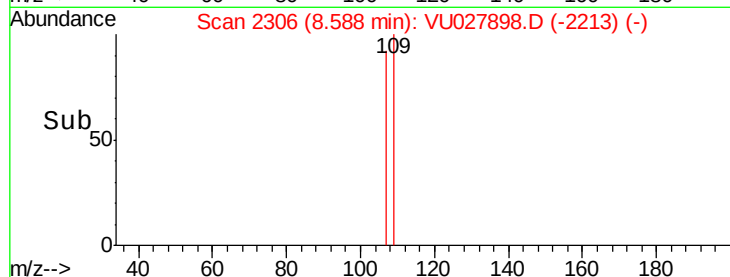
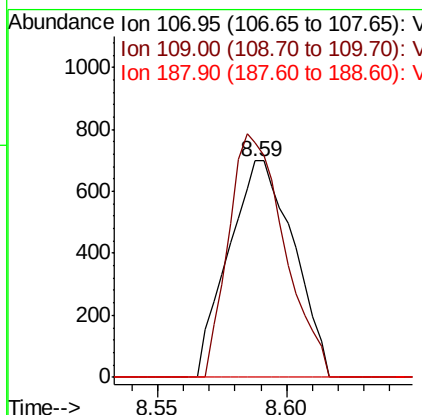
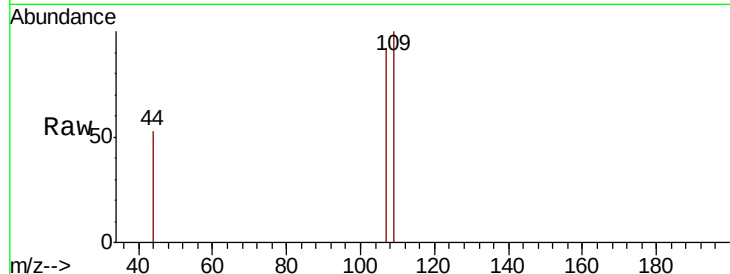
#50
 1,2-Dibromoethane
 Concen: 0.282 ug/L
 RT: 8.59 min Scan# 2306
 Delta R.T. -0.00 min
 Lab File: VU027898.D
 Acq: 01 Nov 2018 12:48

Instrument :
 MSVOA_U
 ClientSampled :
 MDL05

Tot Ion	Ratio	Lower	Upper
107	100		
109	108.6	68.0	126.4
188	0.0	2.7	4.1#

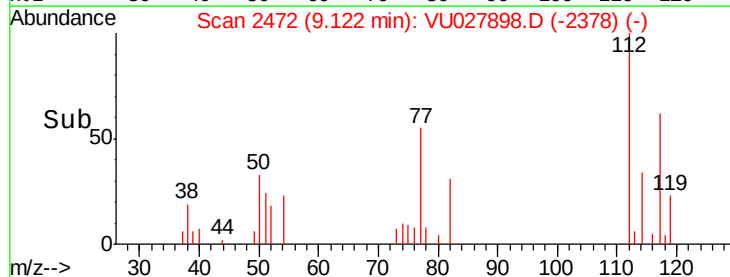
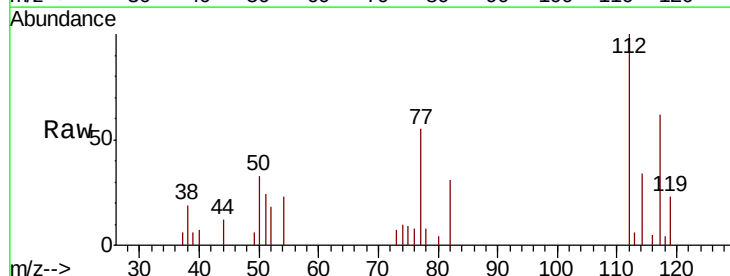
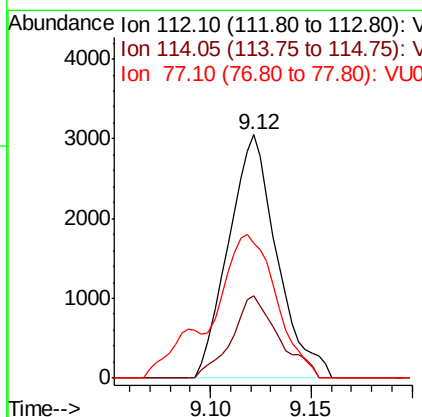
Manual Integrations
 APPROVED

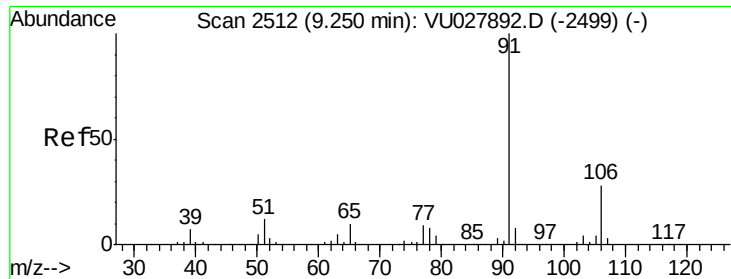
MMDadoda
 11/5/2018 4:10:25 PM



#51
 Chlorobenzene
 Concen: 0.303 ug/L
 RT: 9.12 min Scan# 2472
 Delta R.T. 0.00 min
 Lab File: VU027898.D
 Acq: 01 Nov 2018 12:48

Tgt Ion	Ratio	Lower	Upper
112	100		
114	33.9	22.0	41.0
77	55.2	54.3	81.5





#52

Ethylbenzene

Concen: 0.298 ug/L

RT: 9.25 min Scan# 2512

Delta R.T. -0.00 min

Lab File: VU027898.D

Acq: 01 Nov 2018 12:48

Tot Ion: 91 Resp: 9223

Ion Ratio Lower Upper

91 100

106 28.2 21.5 39.9

Instrument :

MSVOA_U

ClientSampled :

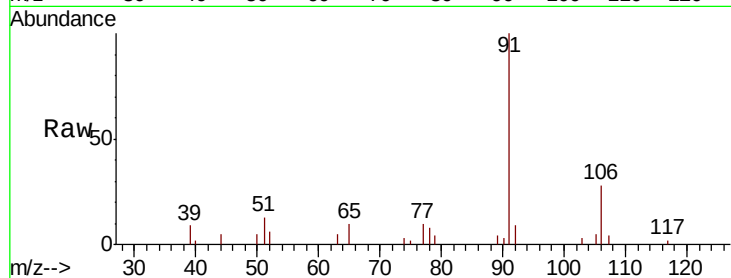
MDL05

Manual Integrations

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MMDadoda

11/5/2018 4:10:25 PM



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

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

6000

5000

4000

3000

2000

1000

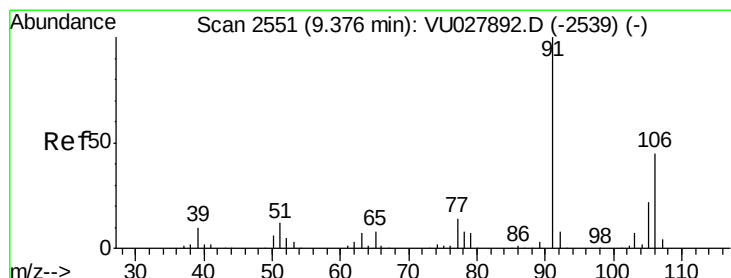
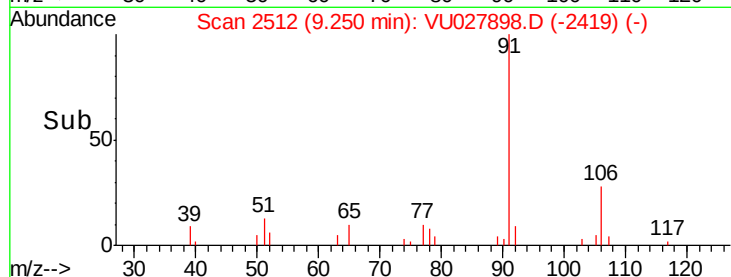
0

9.25

9.25

9.30

Time-->



#53

m,p-xylene

Concen: 0.251 ug/L

RT: 9.38 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VU027898.D

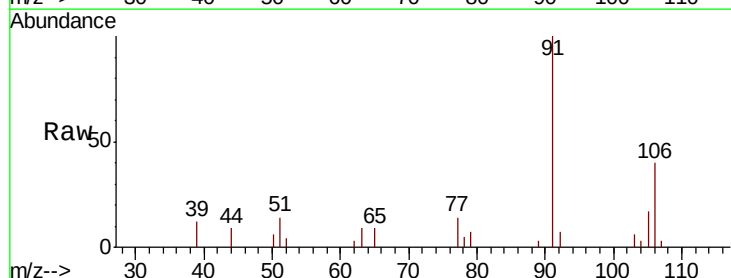
Acq: 01 Nov 2018 12:48

Tgt Ion: 106 Resp: 2819

Ion Ratio Lower Upper

106 100

91 247.4 148.7 276.1



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

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

5000

4000

3000

2000

1000

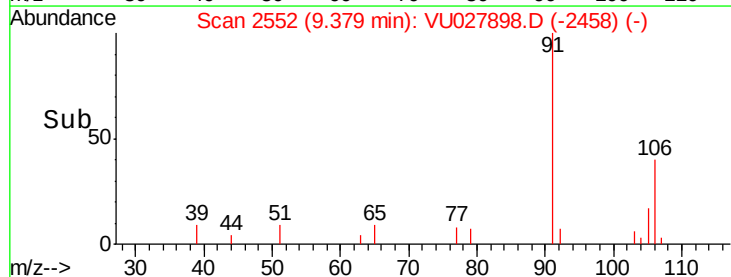
0

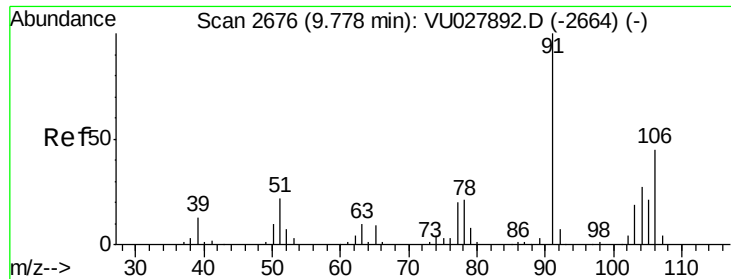
9.38

9.38

9.40

Time-->





#54

o-xylene

Concen: 0.289 ug/L

RT: 9.78 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VU027898.D

Acq: 01 Nov 2018 12:48

Instrument :

MSVOA_U

ClientSampled :

MDL05

Tot Ion:106 Resp: 3188

Ion Ratio Lower Upper

106 100

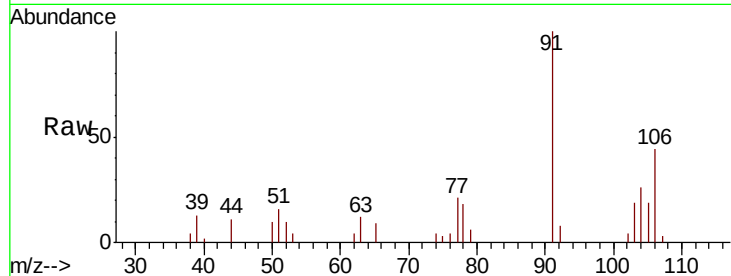
91 225.5 158.3 293.9

Manual Integrations

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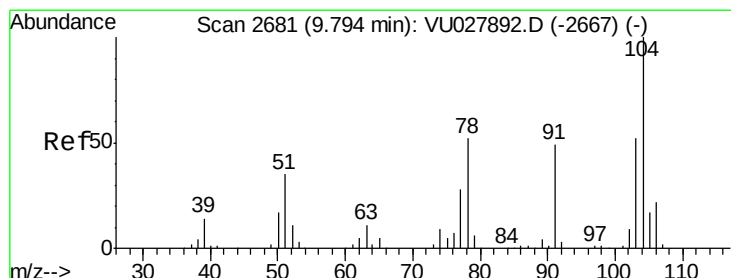
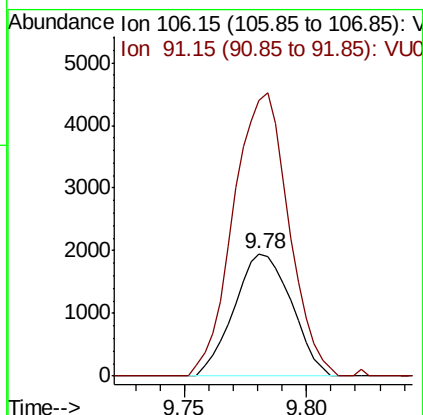
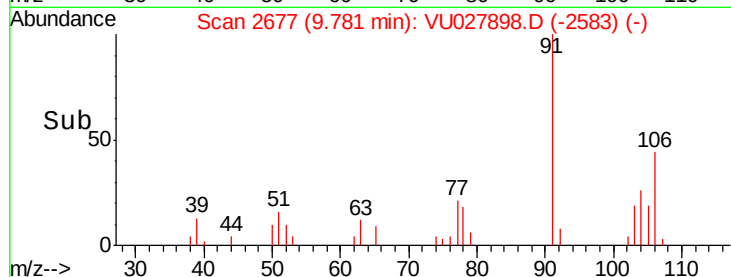
MMDadoda

11/5/2018 4:10:25 PM



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 0.287 ug/L

RT: 9.79 min Scan# 2681

Delta R.T. -0.00 min

Lab File: VU027898.D

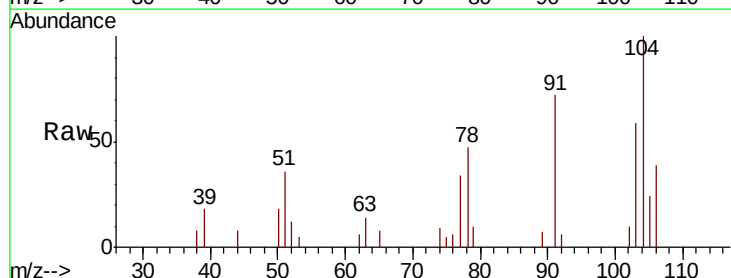
Acq: 01 Nov 2018 12:48

Tgt Ion:104 Resp: 5305

Ion Ratio Lower Upper

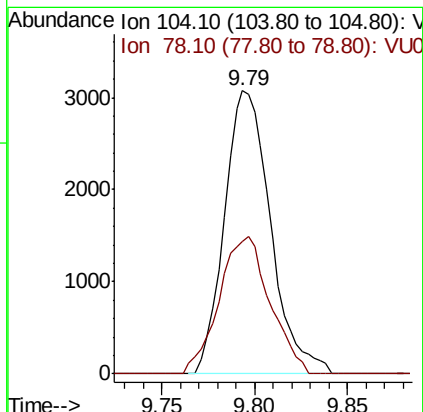
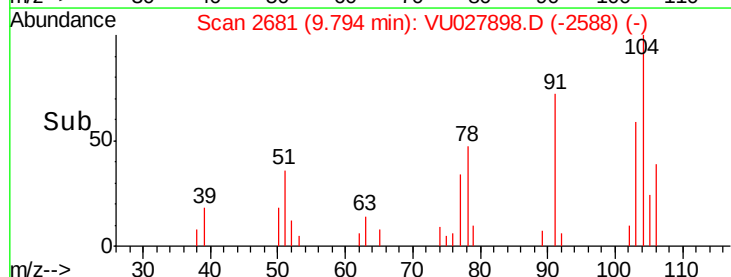
104 100

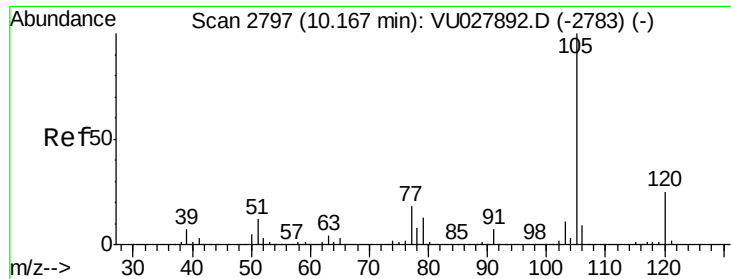
78 46.9 35.6 66.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 0.289 ug/L

RT: 10.17 min Scan# 2798

Delta R.T. 0.00 min

Lab File: VU027898.D

Acq: 01 Nov 2018 12:48

Instrument :

MSVOA_U

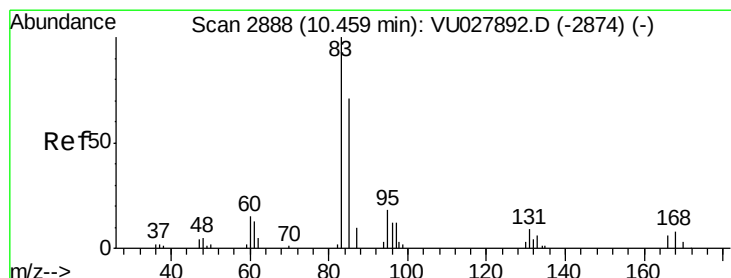
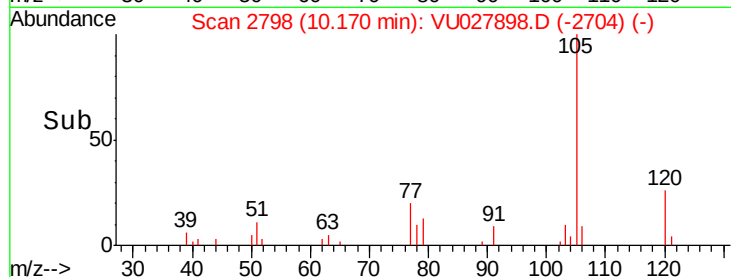
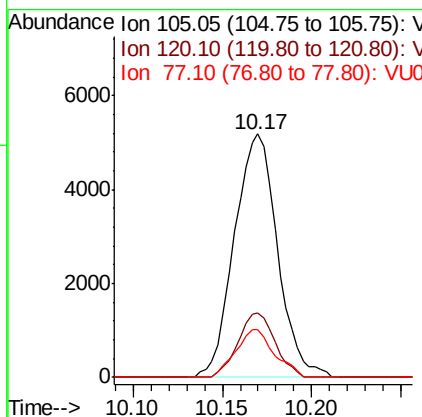
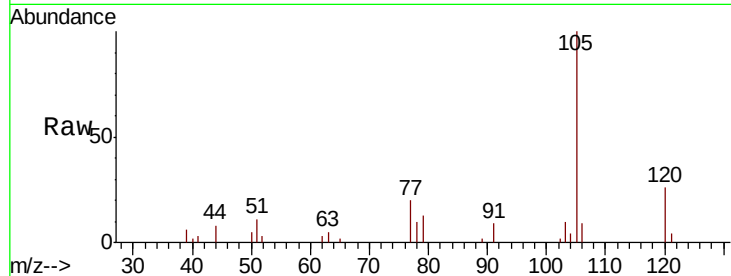
ClientSampled :

MDL05

Tot Ion:	105	Resp:	8700
Ion Ratio	Lower	Upper	
105	100		
120	22.6	20.2	30.2
77	17.5	13.4	20.2

Manual Integrations
APPROVED

MMDadoda
11/5/2018 4:10:25 PM



#58

1,1,2,2-Tetrachloroethane

Concen: 0.258 ug/L

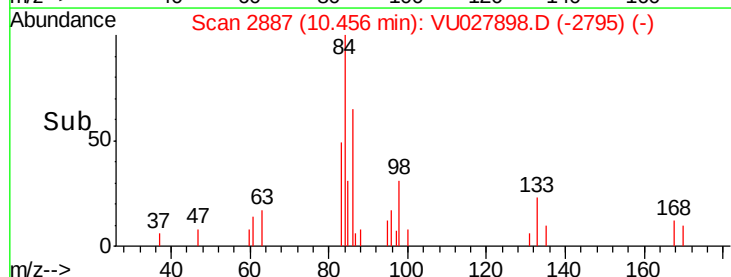
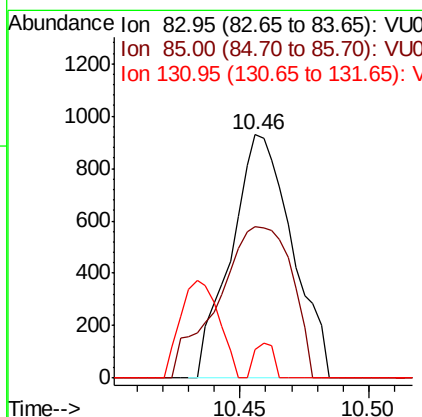
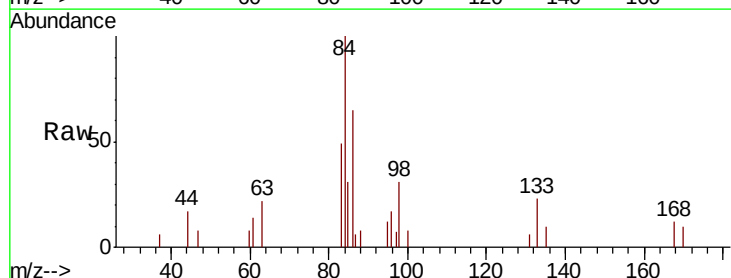
RT: 10.46 min Scan# 2887

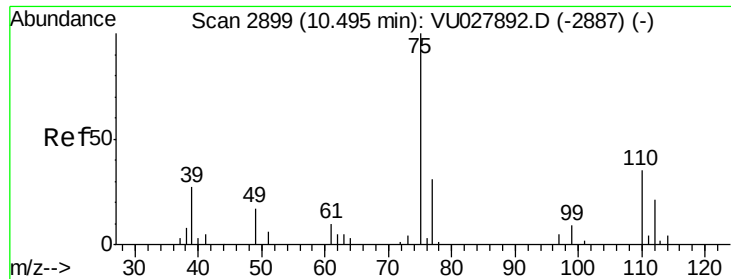
Delta R.T. -0.00 min

Lab File: VU027898.D

Acq: 01 Nov 2018 12:48

Tgt Ion:	83	Resp:	1529
Ion Ratio	Lower	Upper	
83	100		
85	62.4	44.4	82.4
131	11.8	6.8	10.2#





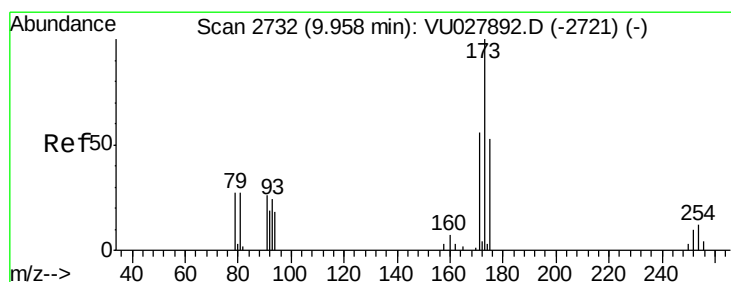
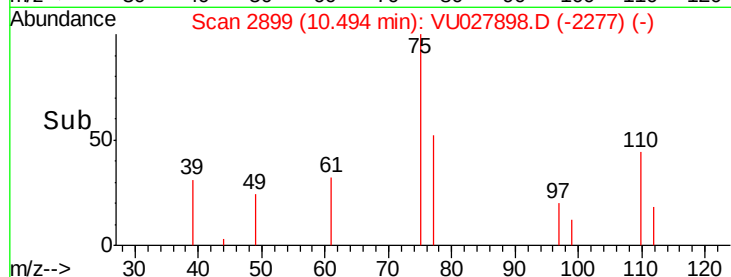
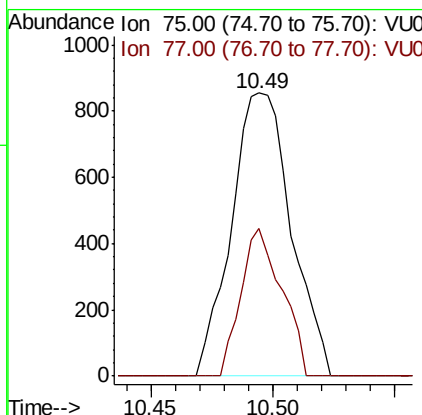
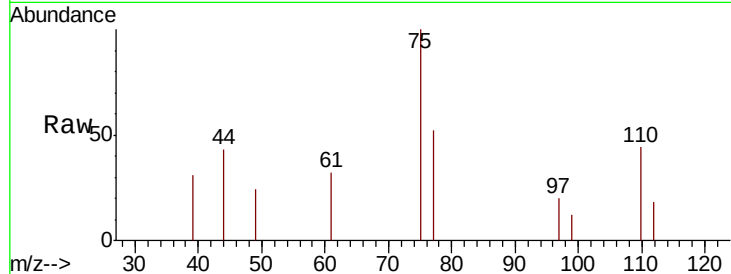
#59
 1,2,3-Trichloropropane
 Concen: 0.323 ug/L
 RT: 10.49 min Scan# 2899
 Delta R.T. -0.00 min
 Lab File: VU027898.D
 Acq: 01 Nov 2018 12:48

Instrument :
 MSVOA_U
 ClientSampled :
 MDL05

Tot Ion: 75 Resp: 1450
 Ion Ratio Lower Upper
 75 100
 77 35.5 25.8 38.6

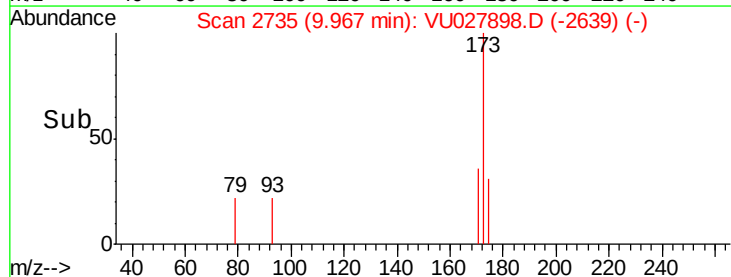
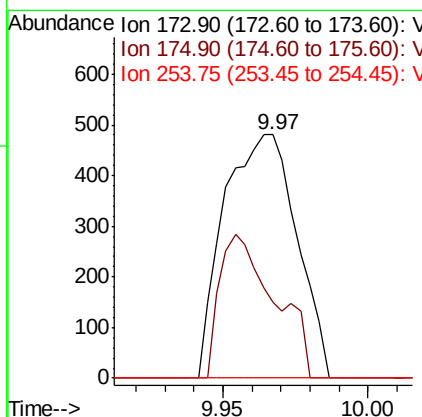
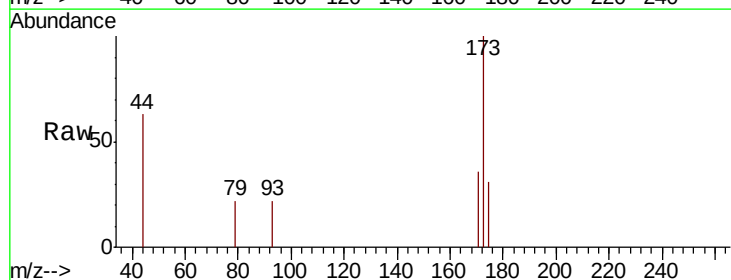
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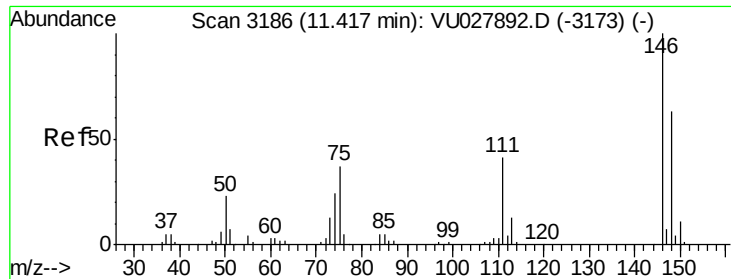
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#61
 Bromoform
 Concen: 0.279 ug/L
 RT: 9.97 min Scan# 2735
 Delta R.T. 0.01 min
 Lab File: VU027898.D
 Acq: 01 Nov 2018 12:48

Tgt Ion: 173 Resp: 837
 Ion Ratio Lower Upper
 173 100
 175 44.4 38.3 57.5
 254 0.0 7.8 11.6#





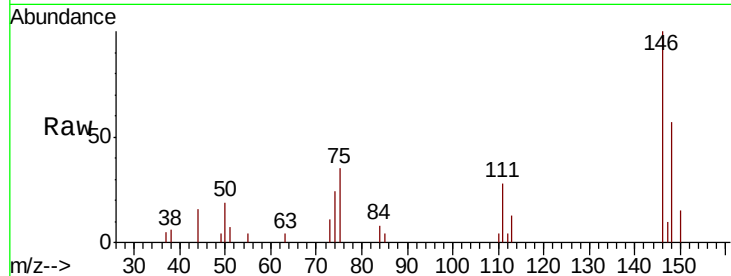
#62
 1,3-Dichlorobenzene
 Concen: 0.319 ug/L
 RT: 11.42 min Scan# 3187
 Delta R.T. 0.00 min
 Lab File: VU027898.D
 Acq: 01 Nov 2018 12:48

Instrument :
 MSVOA_U
 ClientSampled :
 MDL05

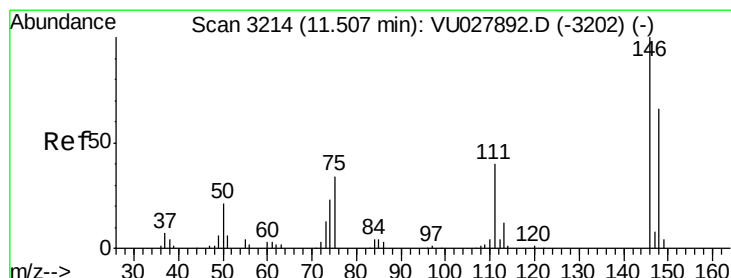
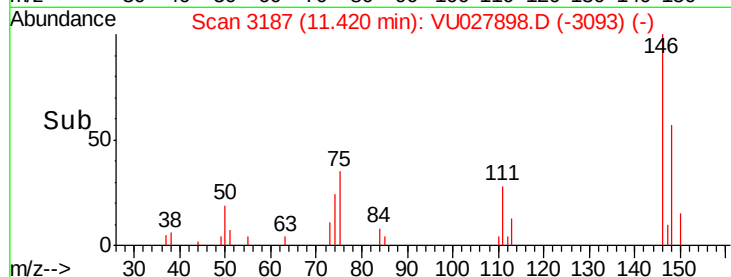
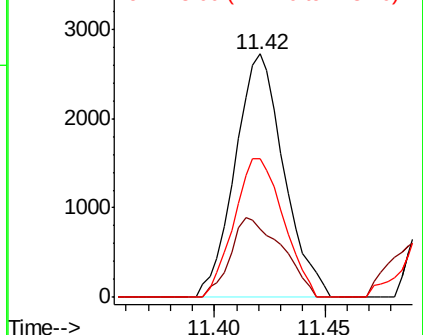
Tot Ion	Ratio	Lower	Upper
146	100		
111	28.0	27.4	51.0
148	56.8	42.6	79.0

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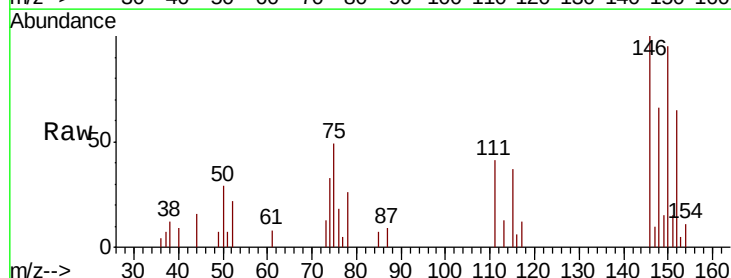


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

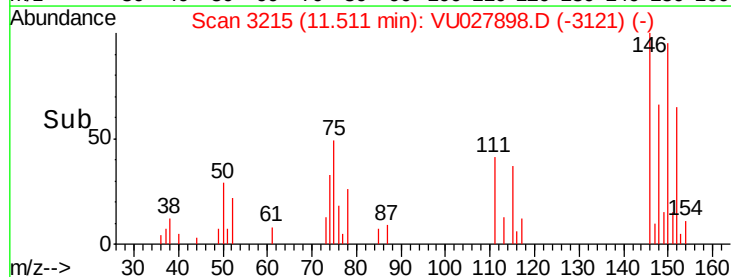
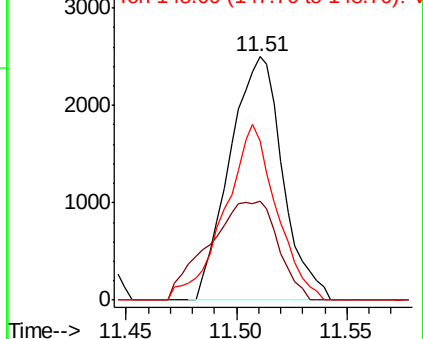


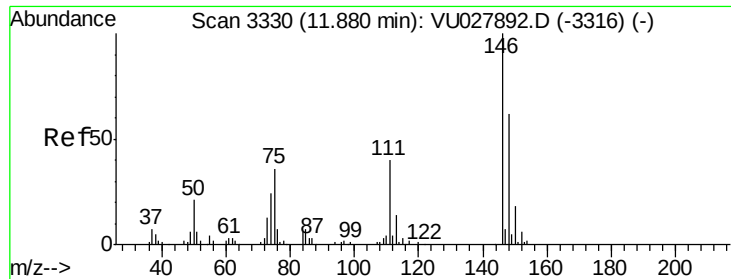
#63
 1,4-Dichlorobenzene
 Concen: 0.318 ug/L
 RT: 11.51 min Scan# 3215
 Delta R.T. 0.00 min
 Lab File: VU027898.D
 Acq: 01 Nov 2018 12:48

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.5	27.4	51.0
148	65.5	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





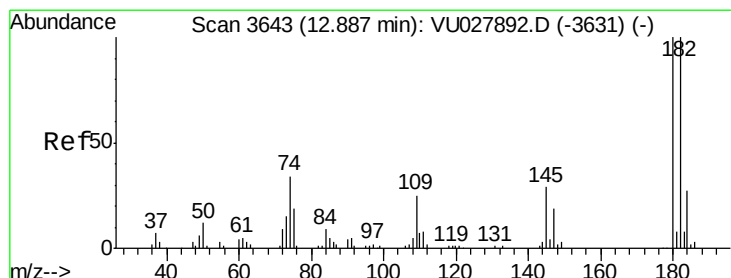
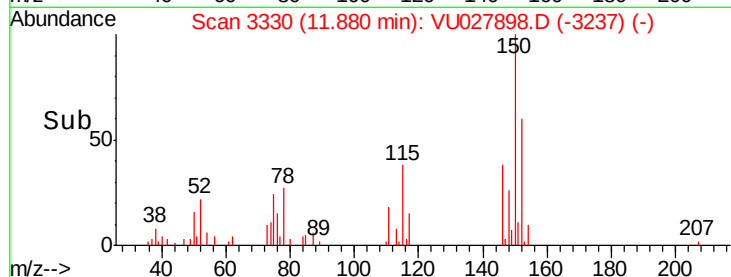
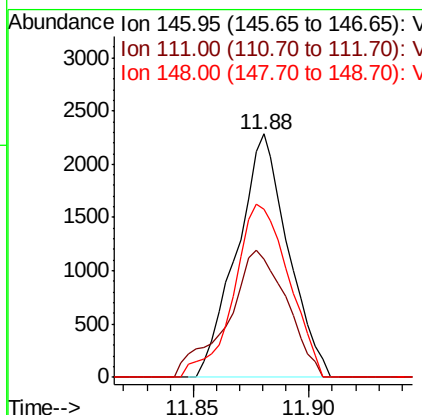
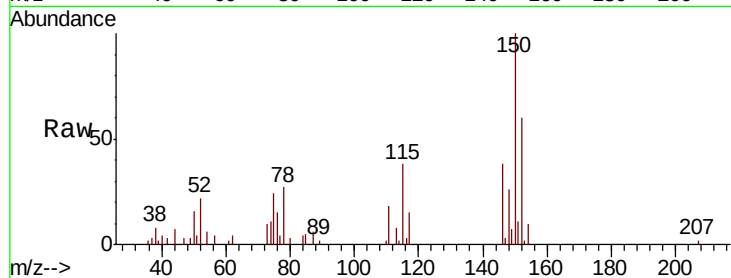
#65
 1,2-Dichlorobenzene
 Concen: 0.284 ug/L
 RT: 11.88 min Scan# 3330
 Delta R.T. -0.00 min
 Lab File: VU027898.D
 Acq: 01 Nov 2018 12:48

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.6	33.0	49.4
148	69.1	49.2	73.8

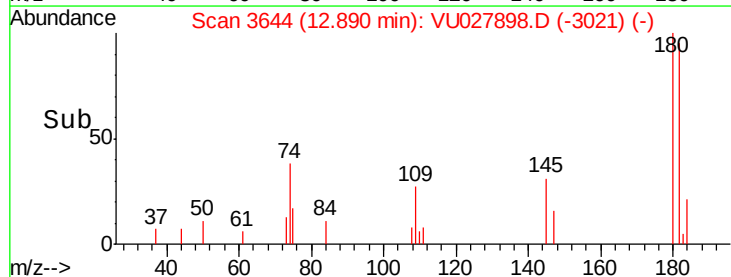
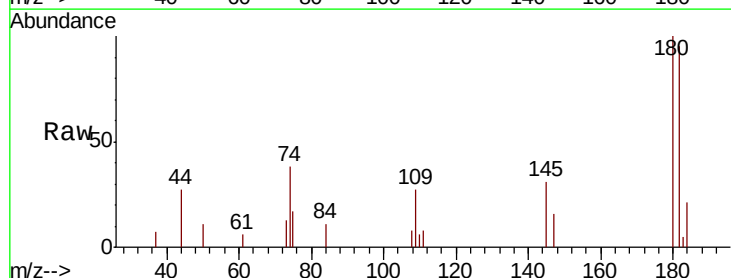
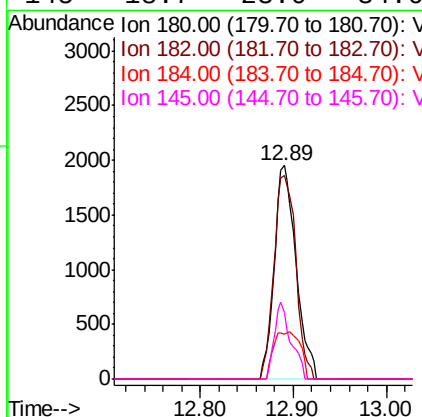
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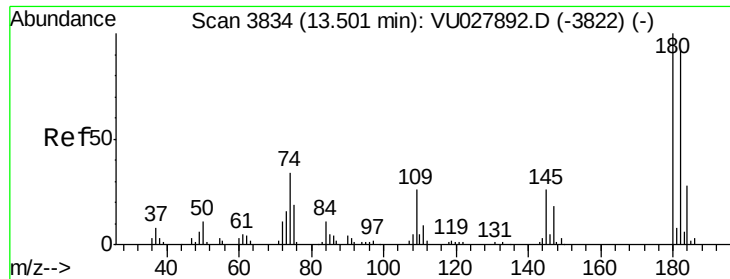
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#67
 1,3,5-Trichlorobenzene
 Concen: 0.300 ug/L m
 RT: 12.89 min Scan# 3644
 Delta R.T. 0.00 min
 Lab File: VU027898.D
 Acq: 01 Nov 2018 12:48

Tgt Ion	Ratio	Lower	Upper
180	100		
182	77.4	77.3	115.9
184	22.6	24.6	37.0#
145	18.7	23.0	34.6#





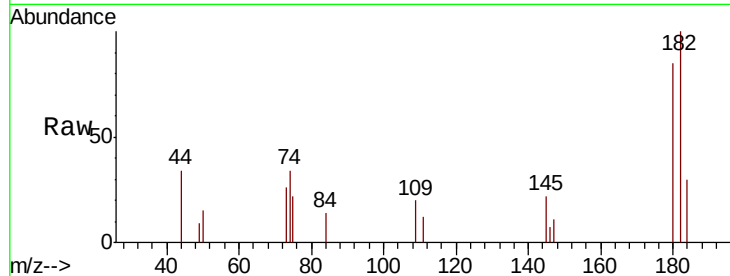
#68
 1,2,4-trichlorobenzene
 Concen: 0.260 ug/L
 RT: 13.51 min Scan# 3837
 Delta R.T. 0.01 min
 Lab File: VU027898.D
 Acq: 01 Nov 2018 12:48

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

Tot Ion	Ratio	Lower	Upper
180	100		
182	105.0	77.8	116.6
145	25.3	22.9	34.3

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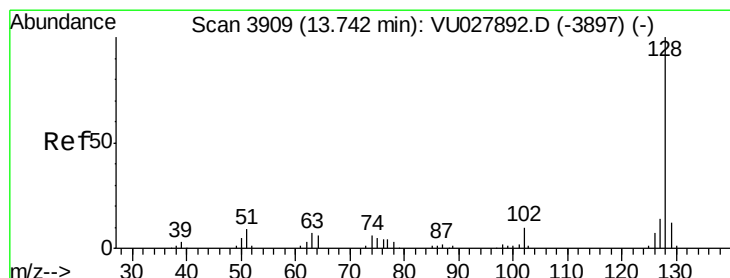
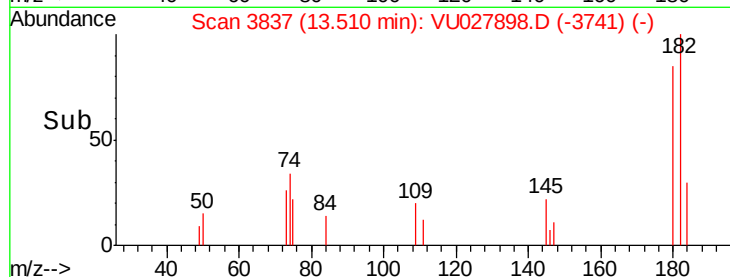
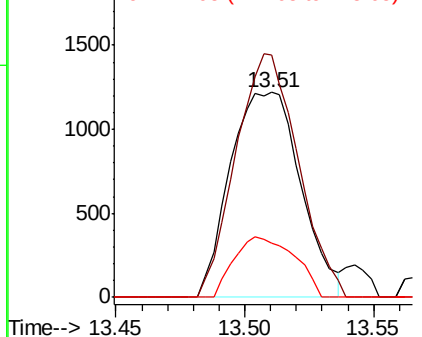


Abundance

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



#69
 Naphthalene
 Concen: 0.246 ug/L
 RT: 13.75 min Scan# 3911
 Delta R.T. 0.01 min
 Lab File: VU027898.D
 Acq: 01 Nov 2018 12:48

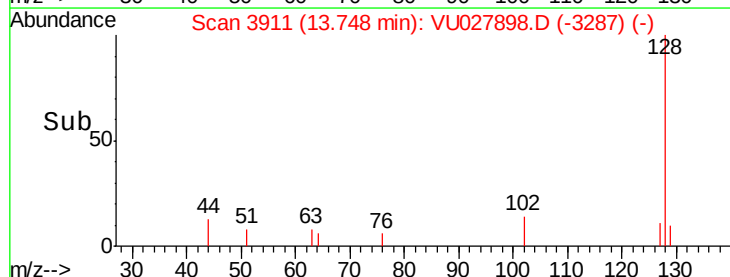
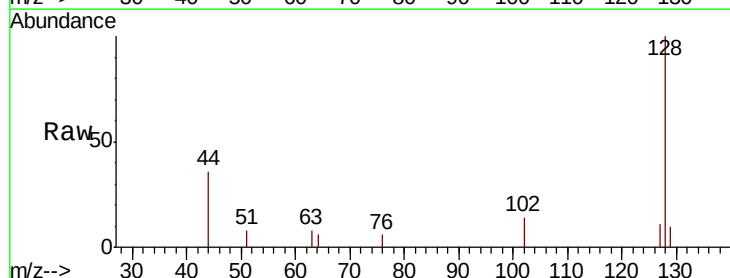
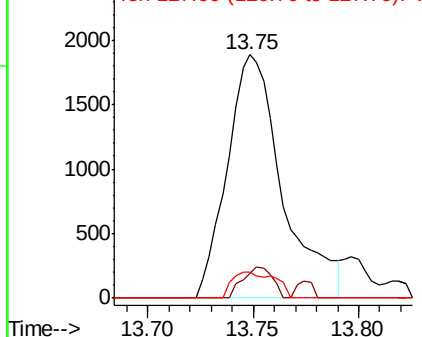
Tgt Ion	Ratio	Lower	Upper
128	100		
129	6.8	8.6	12.8#
127	8.3	10.5	15.7#

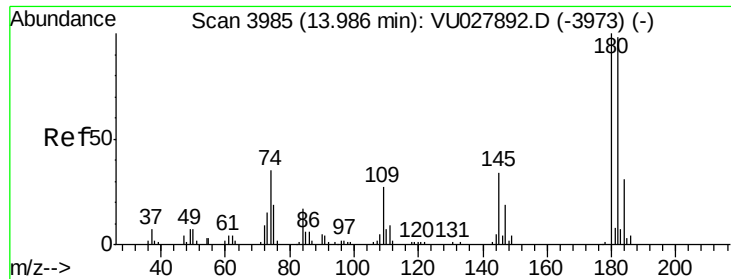
Abundance

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





#70
 1,2,3-Trichlorobenzene
 Concen: 0.300 ug/L
 RT: 13.99 min Scan# 3987
 Delta R.T. 0.01 min
 Lab File: VU027898.D
 Acq: 01 Nov 2018 12:48

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

Tot Ion:	180	Resp:	2451
Ion Ratio	Lower	Upper	
180	100		
182	88.3	79.4	119.0
145	23.8	25.4	38.0

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