

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU031119\
 Data File : VU029906.D
 Acq On : 08 Mar 2019 22:25
 Operator : JC/SP
 Sample : K1763-04
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0959

Manual Integrations
 APPROVED

MMDadoda
 3/11/2019 10:52:35 AM

Quant Time: Mar 09 01:17:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM021519WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Mar 08 22:13:16 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	423603	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	81219	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	641018	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	4494m	1.45	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	2.90%#
7) Chloroethane-d5	1.68	69	116017	42.04	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	84.08%
11) 1,1-Dichloroethene-d2	2.28	63	33754	5.56	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	11.12%#
21) 2-Butanone-d5	4.17	46	61832	32.73	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	32.73%#
24) Chloroform-d	4.66	84	417925	83.01	ug/L	0.01
Spiked Amount	50.000	Range	70 - 125	Recovery	=	166.02%#
26) 1,2-Dichloroethane-d4	5.31	65	173353	54.39	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	108.78%
32) Benzene-d6	5.33	84	1760	0.86	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	1.72%#
36) 1,2-Dichloropropane-d6	6.32	67	188257	306.18	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	612.36%#
41) Toluene-d8	7.57	98	2263	1.09	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	2.18%#
43) trans-1,3-Dichloropropene-	7.85	79	1950	5.98	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	11.96%#
47) 2-Hexanone-d5	8.31	63	194759	568.80	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	568.80%#
57) 1,1,2,2-Tetrachloroethane-	10.43	84	315015	303.21	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	606.42%#
64) 1,2-Dichlorobenzene-d4	11.86	152	466386	33.76	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	67.52%#

Target Compounds

					Ovalue
3) Chloromethane	1.32	50	10455908	4103.542	ug/L # 82
13) Acetone	2.32	43	28699	14.218	ug/L 96
14) Carbon disulfide	2.48	76	8536	1.162	ug/L # 92
15) Methyl Acetate	2.62	43	12233	4.669	ug/L 96
16) Methylene chloride	2.70	84	1602790	590.476	ug/L 99
17) trans-1,2-Dichloroethene	2.99	96	5504m	2.126	ug/L
19) 1,1-Dichloroethane	3.45	63	13233	2.956	ug/L 97
20) cis-1,2-Dichloroethene	4.24	96	7912m	2.630	ug/L
22) 2-Butanone	4.27	43	15503	6.730	ug/L 86
25) Chloroform	4.67	83	4431854	887.249	ug/L 100
27) 1,2-Dichloroethane	5.41	62	7756	2.020	ug/L 95
30) 1,1,1-Trichloroethane	4.91	97	49103	57.019	ug/L 98
31) Carbon tetrachloride	5.13	117	632182	811.070	ug/L 99
34) Trichloroethene	6.18	95	368395	656.726	ug/L 96
37) 1,2-Dichloropropane	6.43	63	7299	13.353	ug/L # 91
38) Bromodichloromethane	6.75	83	378808	514.040	ug/L 98
40) 4-Methyl-2-pentanone	7.46	43	58861	76.575	ug/L # 52

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU031119\
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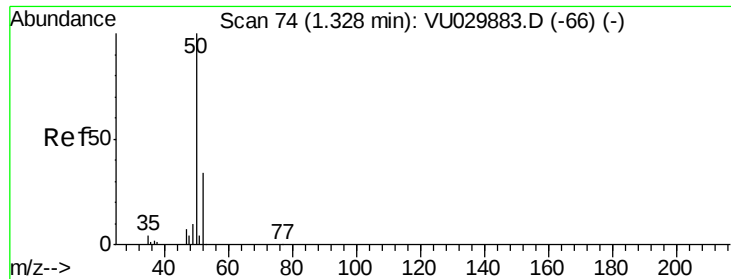
Manual Integrations
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Quant Time: Mar 09 01:17:28 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM021519WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Mar 08 22:13:16 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,1,2-Trichloroethane	8.06	97	9327	16.008	ug/L	92
46) Tetrachloroethene	8.22	164	30573	55.683	ug/L	99
49) Dibromochloromethane	8.47	129	60944	86.283	ug/L	99
51) Chlorobenzene	9.14	112	12631m	7.473	ug/L	
63) 1,4-Dichlorobenzene	11.50	146	16733	0.814	ug/L	96

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



#3

Chloromethane

Concen: 4103.542 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.01 min

Lab File: VU029906.D

Acq: 08 Mar 2019 22:25

Instrument :

MSVOA_U

ClientSampleId :

C0959

Tot Ion: 50 Resp:10455908

Ion Ratio Lower Upper

50 100

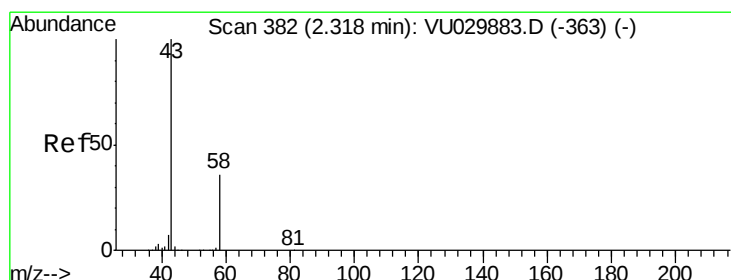
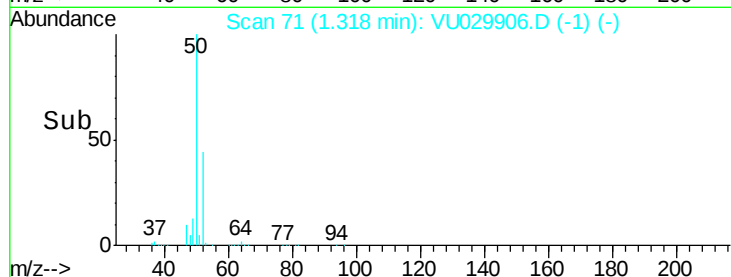
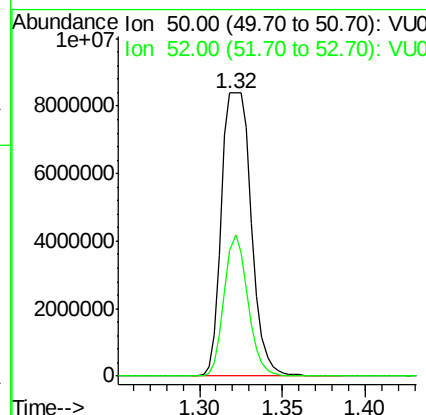
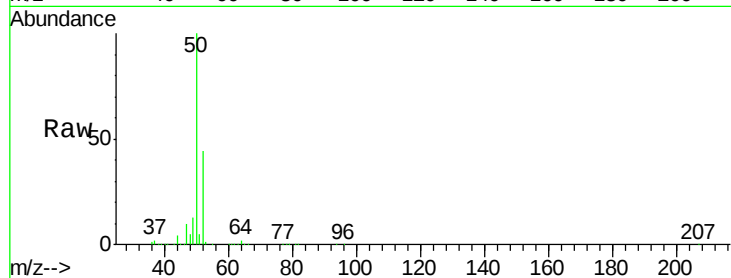
52 44.4 23.9 44.3#

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#13

Acetone

Concen: 14.218 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VU029906.D

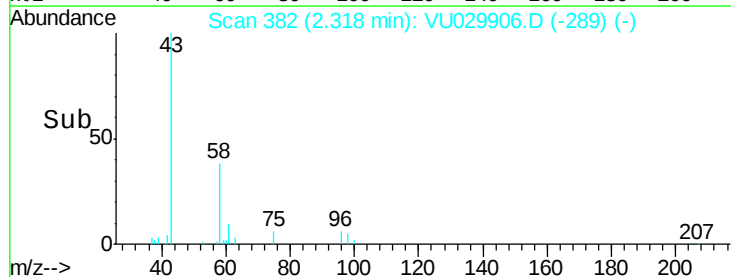
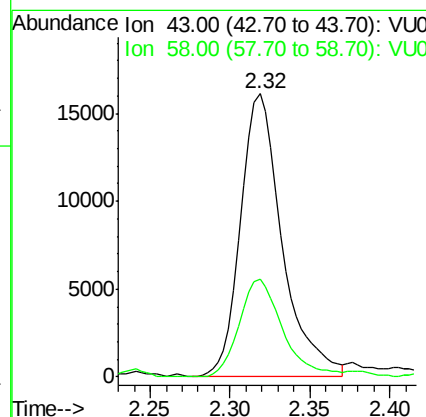
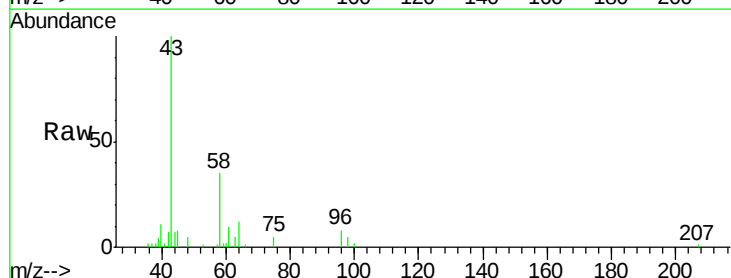
Acq: 08 Mar 2019 22:25

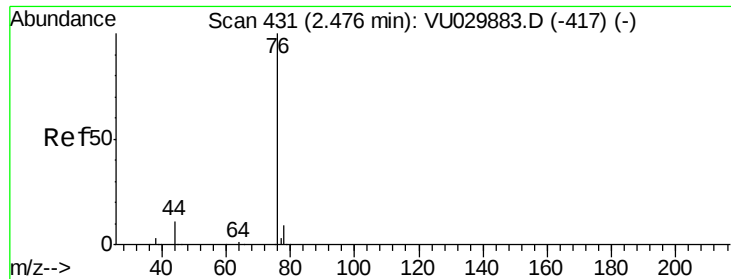
Tgt Ion: 43 Resp: 28699

Ion Ratio Lower Upper

43 100

58 35.9 0.0 66.8





#14

Carbon disulfide

Concen: 1.162 ug/L

RT: 2.48 min Scan# 431

Delta R.T. 0.00 min

Lab File: VU029906.D

Acq: 08 Mar 2019 22:25

Instrument :

MSVOA_U

ClientSampleId :

C0959

Tot Ion: 76 Resp: 8536

Ion Ratio Lower Upper

76 100

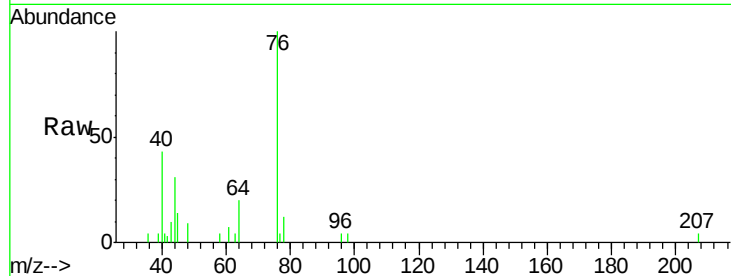
78 12.2 7.4 11.2#

Manual Integrations

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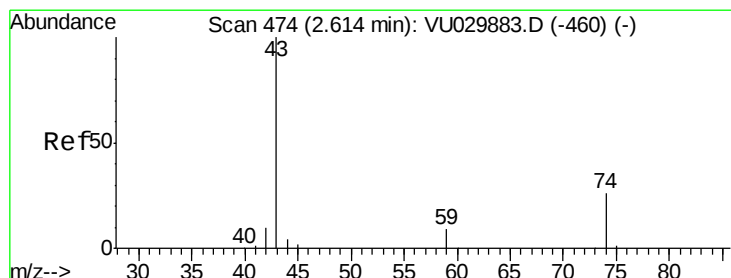
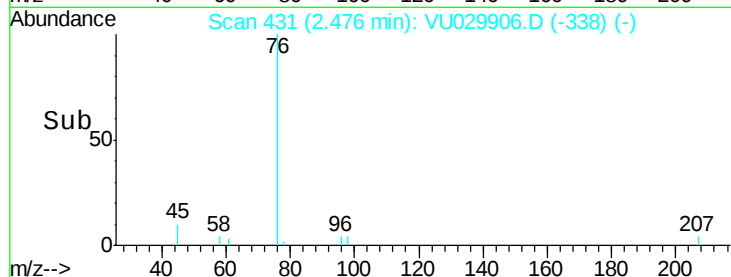
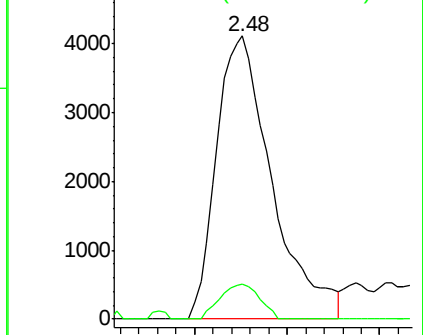
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Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0



#15

Methyl Acetate

Concen: 4.669 ug/L

RT: 2.62 min Scan# 475

Delta R.T. 0.00 min

Lab File: VU029906.D

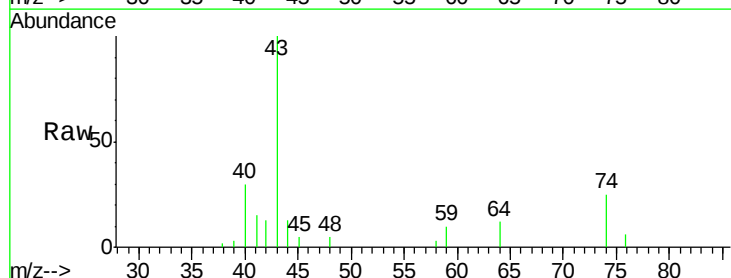
Acq: 08 Mar 2019 22:25

Tgt Ion: 43 Resp: 12233

Ion Ratio Lower Upper

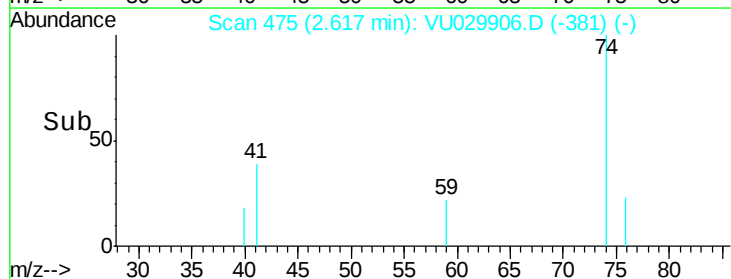
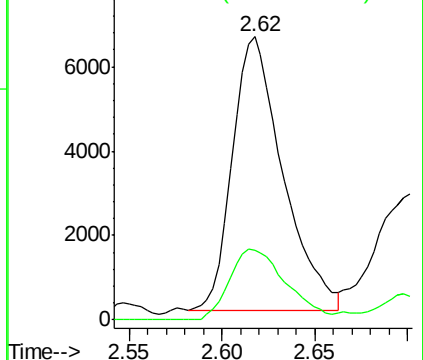
43 100

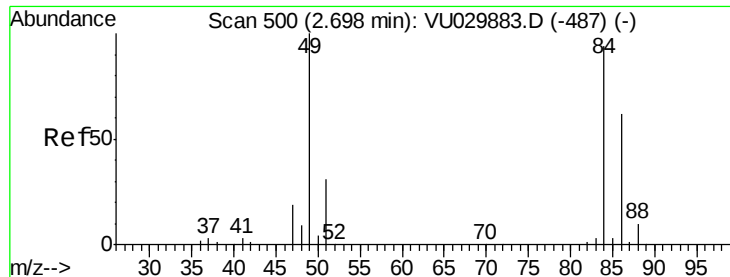
74 28.9 21.5 32.3



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0





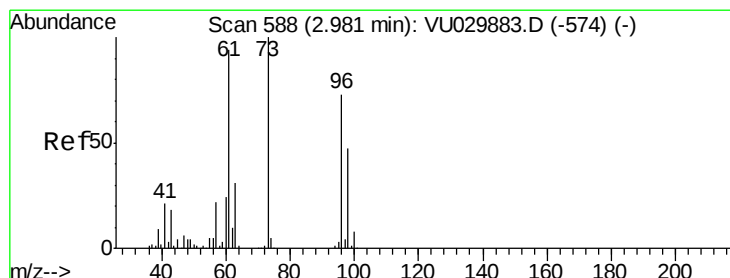
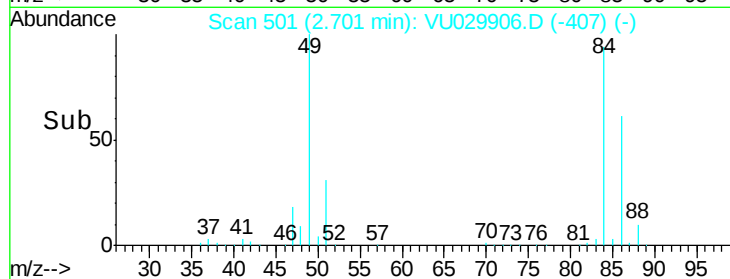
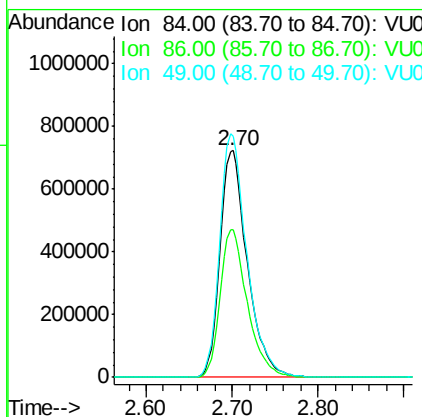
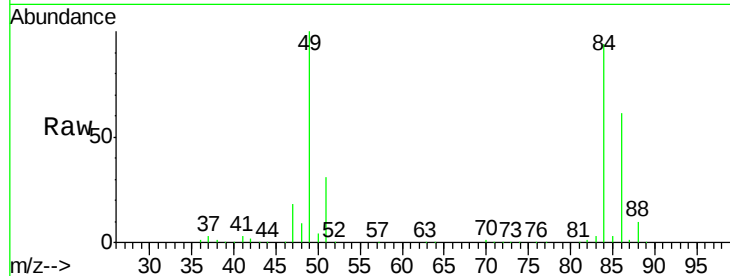
#16
Methvlene chloride
Concen: 590.476 ug/L
RT: 2.70 min Scan# 501
Delta R.T. 0.00 min
Lab File: VU029906.D
Acq: 08 Mar 2019 22:25

Instrument :
MSVOA_U
ClientSampled :
C0959

Tot Ion: 84 Resp: 1602790
Ion Ratio Lower Upper
84 100
86 65.1 45.8 85.0
49 106.5 75.1 139.5

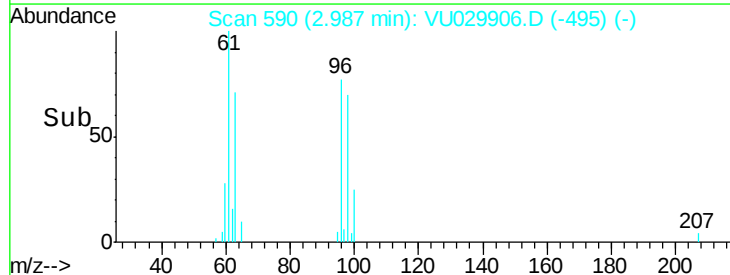
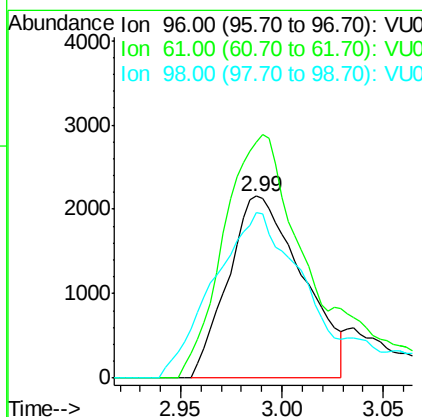
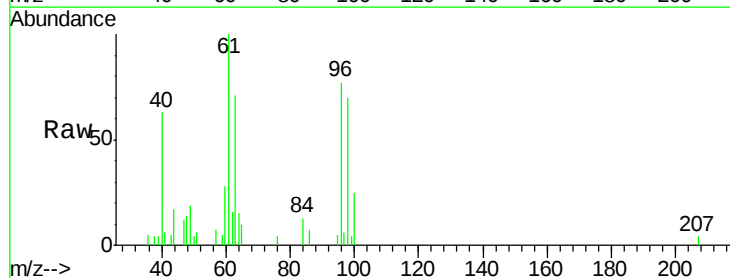
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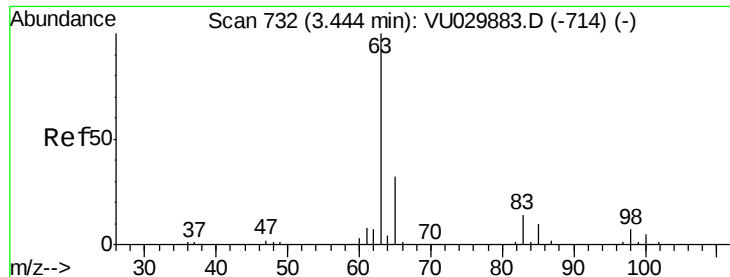
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#17
trans-1,2-Dichloroethene
Concen: 2.126 ug/L m
RT: 2.99 min Scan# 590
Delta R.T. 0.01 min
Lab File: VU029906.D
Acq: 08 Mar 2019 22:25

Tgt Ion: 96 Resp: 5504
Ion Ratio Lower Upper
96 100
61 129.7 88.3 163.9
98 91.2 44.8 83.2#





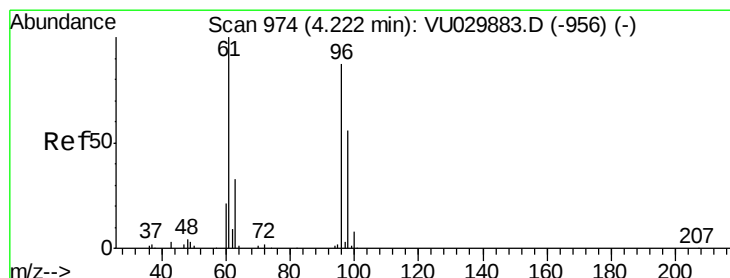
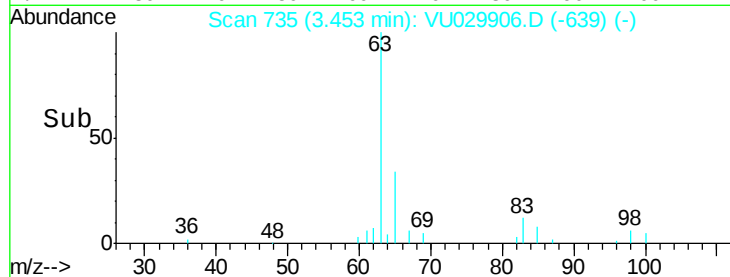
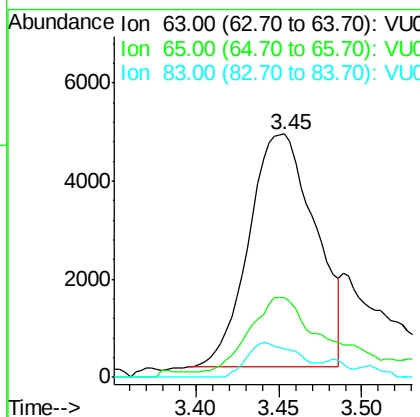
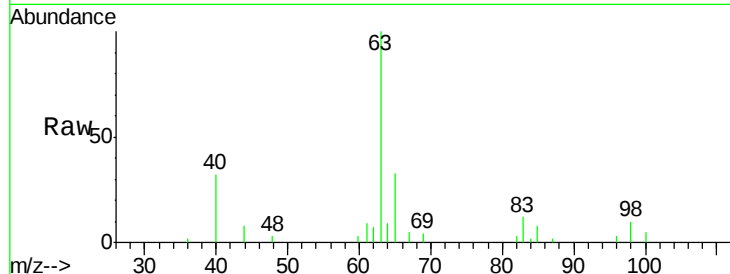
#19
 1,1-Dichloroethane
 Concen: 2.956 ug/L
 RT: 3.45 min Scan# 735
 Delta R.T. 0.01 min
 Lab File: VU029906.D
 Acq: 08 Mar 2019 22:25

Instrument :
 MSVOA_U
 ClientSampleId :
 C0959

Tot Ion:	63	Resp:	13233
Ion	Ratio	Lower	Upper
63	100		
65	32.6	22.3	41.3
83	11.8	9.9	18.3

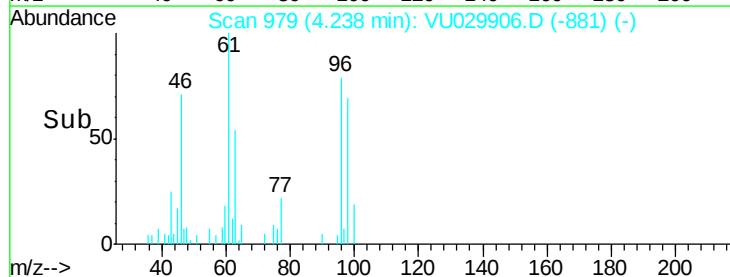
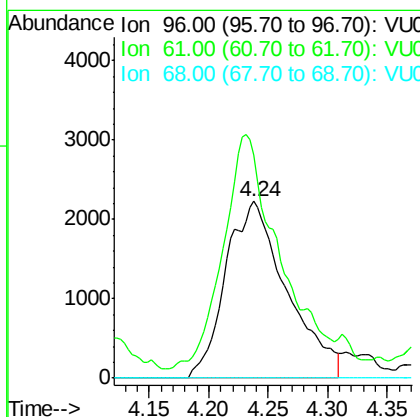
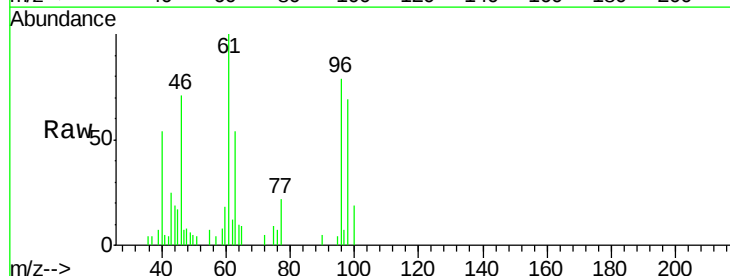
Manual Integrations
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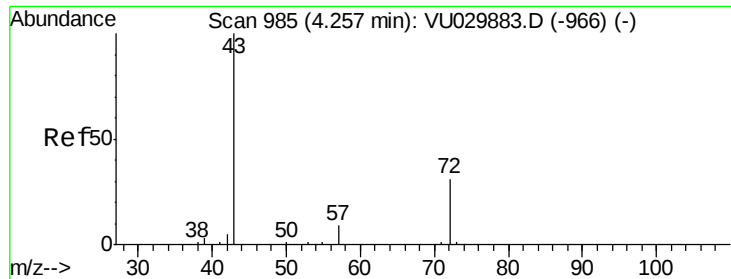
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#20
 cis-1,2-Dichloroethene
 Concen: 2.630 ug/L m
 RT: 4.24 min Scan# 979
 Delta R.T. 0.02 min
 Lab File: VU029906.D
 Acq: 08 Mar 2019 22:25

Tgt Ion:	96	Resp:	7912
Ion	Ratio	Lower	Upper
96	100		
61	126.8	83.9	155.7
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 6.730 ug/L

RT: 4.27 min Scan# 988

Delta R.T. 0.01 min

Lab File: VU029906.D

Acq: 08 Mar 2019 22:25

Instrument :

MSVOA_U

ClientSampled :

C0959

Tot Ion: 43 Resp: 15503

Ion Ratio Lower Upper

43 100

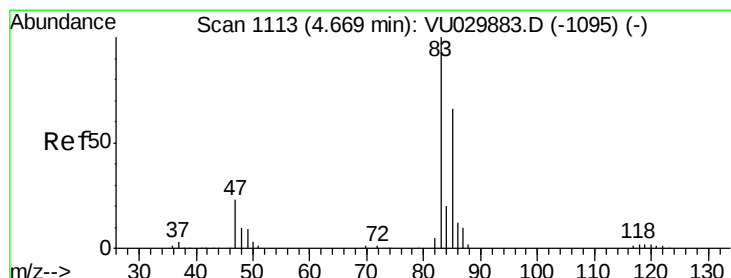
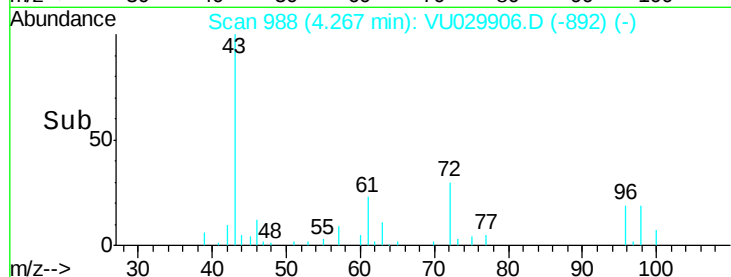
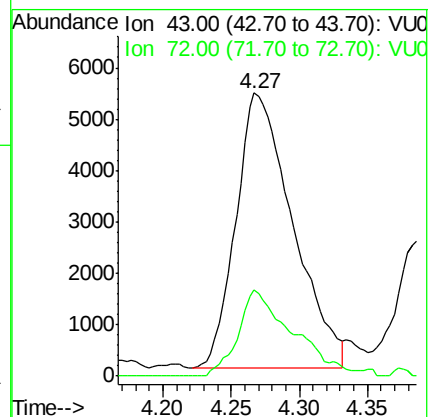
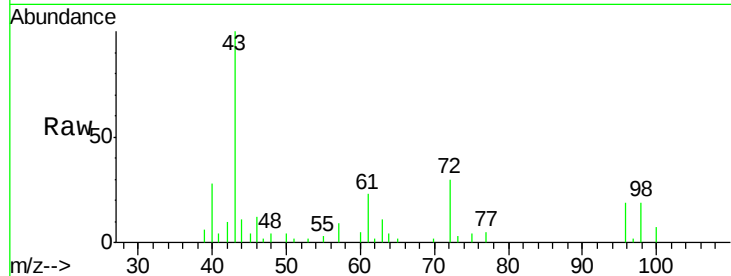
72 23.0 15.2 45.6

Manual Integrations

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#25

Chloroform

Concen: 887.249 ug/L

RT: 4.67 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VU029906.D

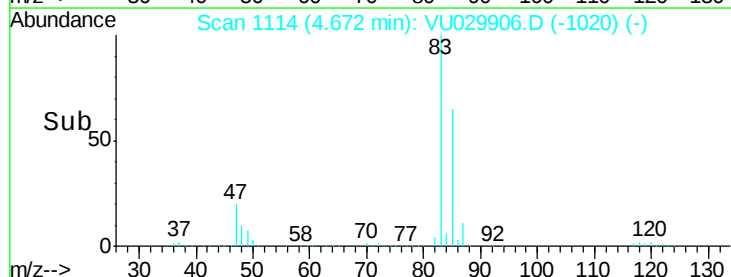
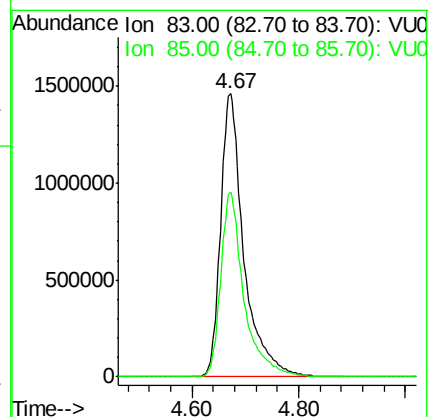
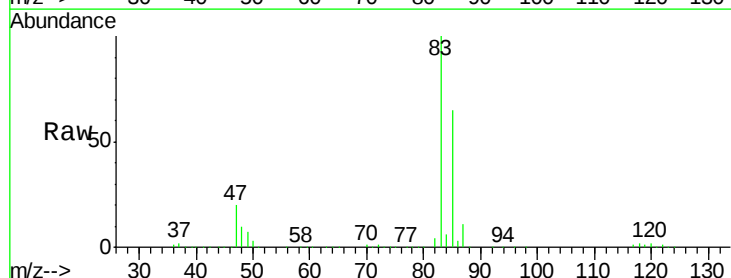
Acq: 08 Mar 2019 22:25

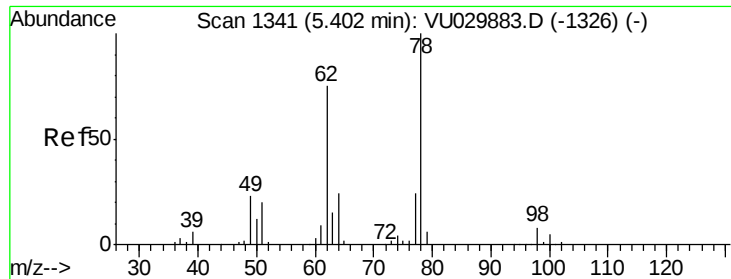
Tgt Ion: 83 Resp: 4431854

Ion Ratio Lower Upper

83 100

85 65.1 45.4 84.2





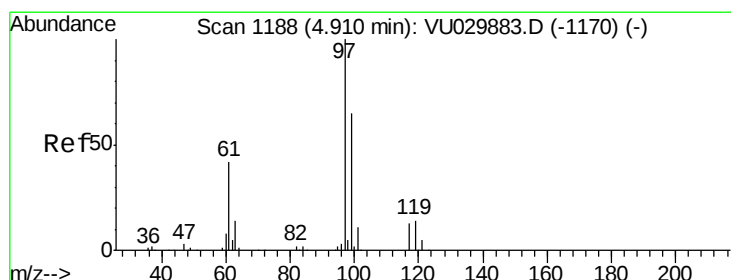
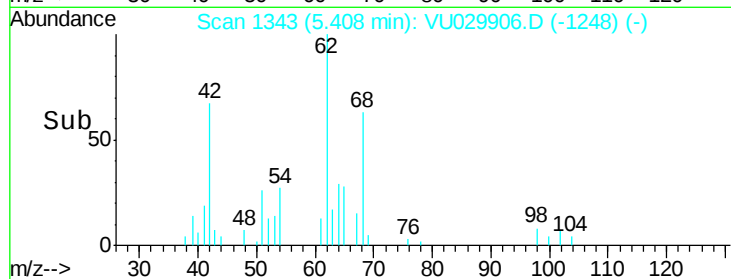
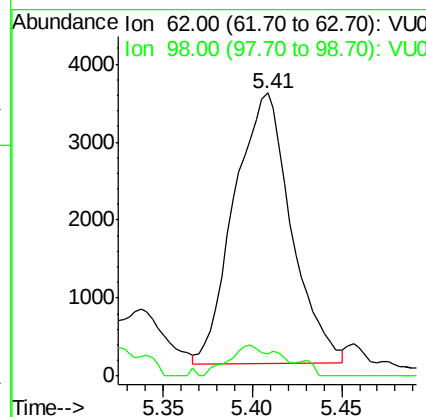
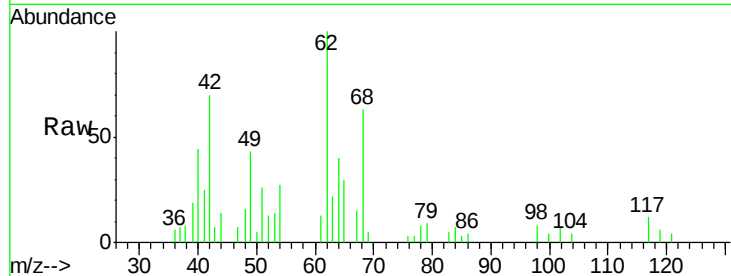
#27
 1,2-Dichloroethane
 Concen: 2.020 ug/L
 RT: 5.41 min Scan# 1343
 Delta R.T. 0.01 min
 Lab File: VU029906.D
 Acq: 08 Mar 2019 22:25

Instrument :
 MSVOA_U
 ClientSampleId :
 C0959

Tot Ion	Ratio	Lower	Upper
62	100		
98	8.0	7.8	11.8

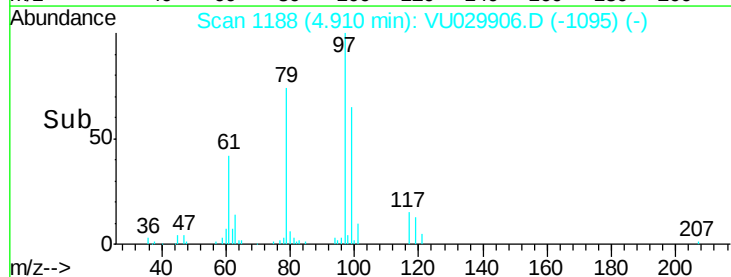
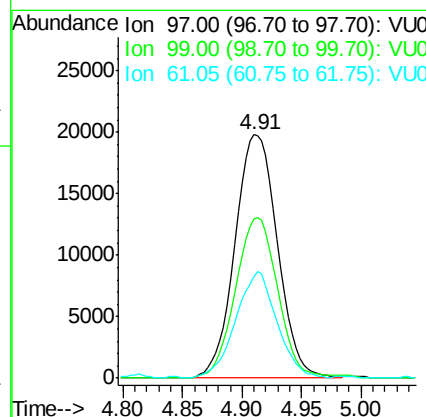
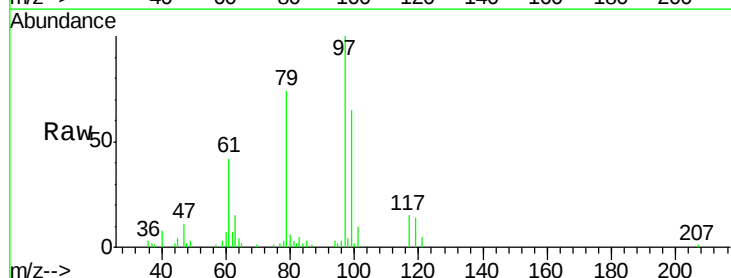
Manual Integrations
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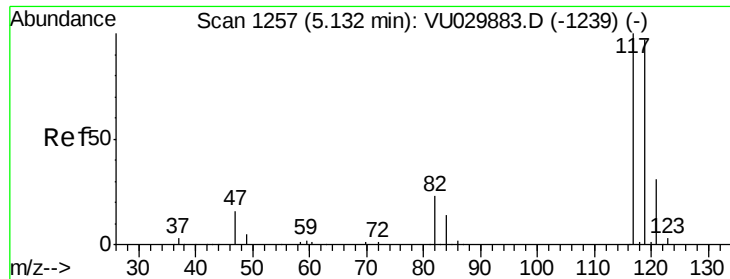
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 3/11/2019 10:52:35 AM



#30
 1,1,1-Trichloroethane
 Concen: 57.019 ug/L
 RT: 4.91 min Scan# 1188
 Delta R.T. 0.00 min
 Lab File: VU029906.D
 Acq: 08 Mar 2019 22:25

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.1	51.4	77.0
61	42.4	32.3	48.5





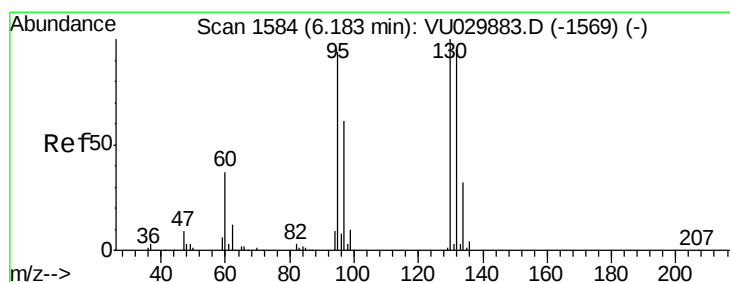
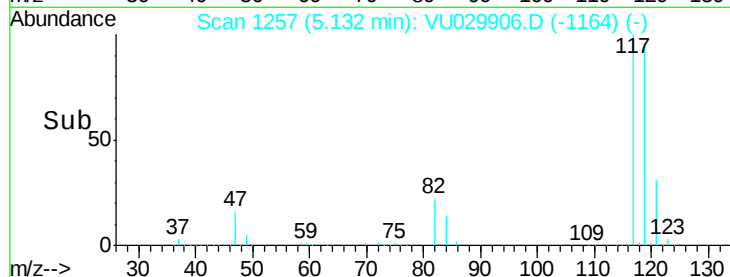
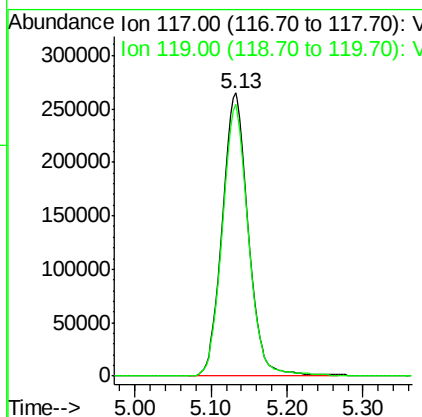
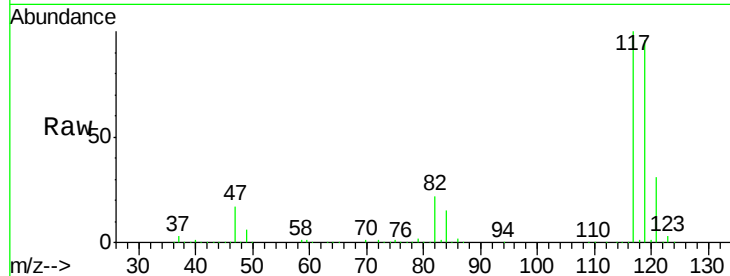
#31
Carbon tetrachloride
Concen: 811.070 ug/L
RT: 5.13 min Scan# 1257
Delta R.T. 0.00 min
Lab File: VU029906.D
Acq: 08 Mar 2019 22:25

Instrument :
MSVOA_U
ClientSampleId :
C0959

Tot Ion:117 Resp: 632182
Ion Ratio Lower Upper
117 100
119 96.3 77.8 116.8

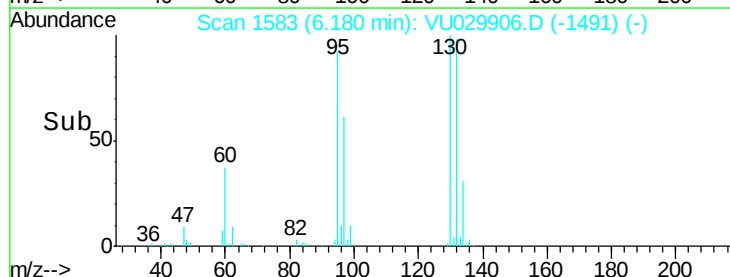
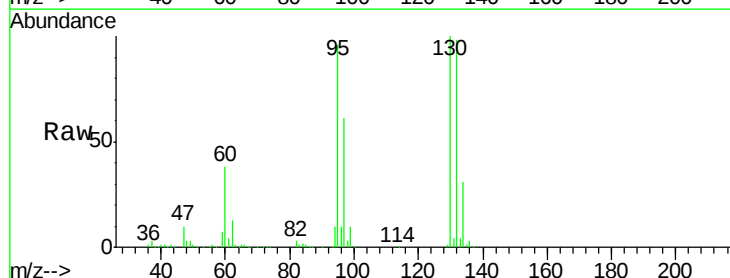
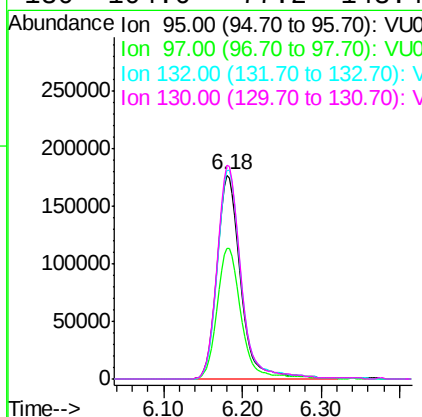
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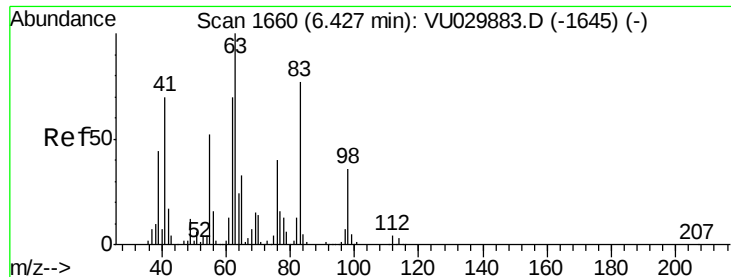
MMDadoda
3/11/2019 10:52:35 AM



#34
Trichloroethene
Concen: 656.726 ug/L
RT: 6.18 min Scan# 1583
Delta R.T. -0.00 min
Lab File: VU029906.D
Acq: 08 Mar 2019 22:25

Tgt Ion: 95 Resp: 368395
Ion Ratio Lower Upper
95 100
97 64.2 44.6 82.8
132 102.2 74.6 138.6
130 104.6 77.2 143.4





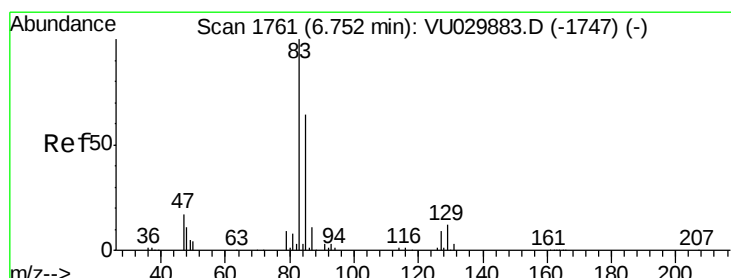
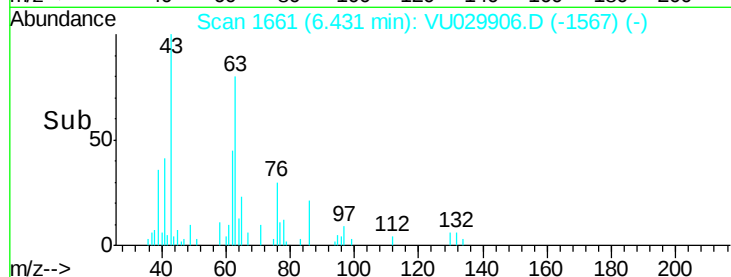
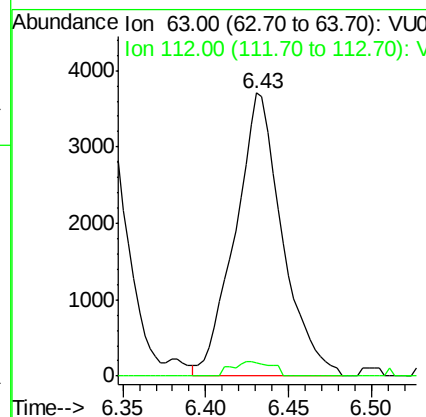
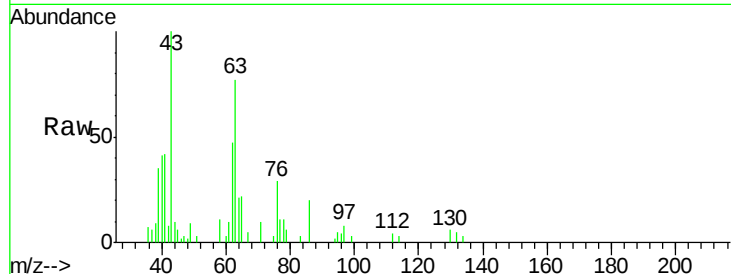
#37
 1,2-Dichloropropane
 Concen: 13.353 ug/L
 RT: 6.43 min Scan# 1661
 Delta R.T. 0.00 min
 Lab File: VU029906.D
 Acq: 08 Mar 2019 22:25

Instrument :
 MSVOA_U
 ClientSampleId :
 C0959

Tot Ion: 63 Resp: 7299
 Ion Ratio Lower Upper
 63 100
 112 1.6 3.6 5.4#

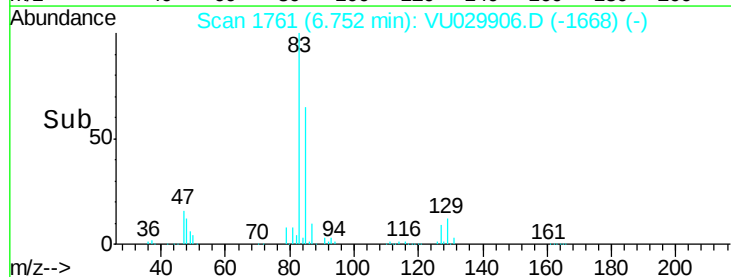
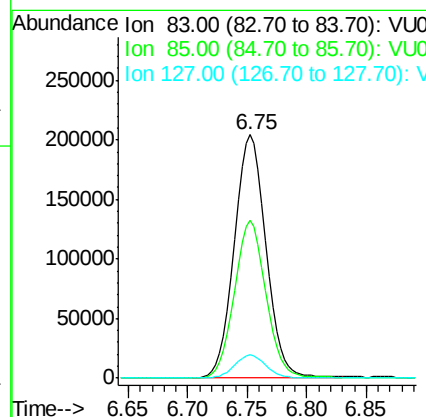
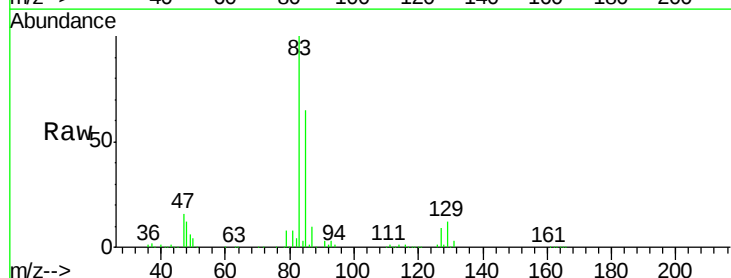
Manual Integrations
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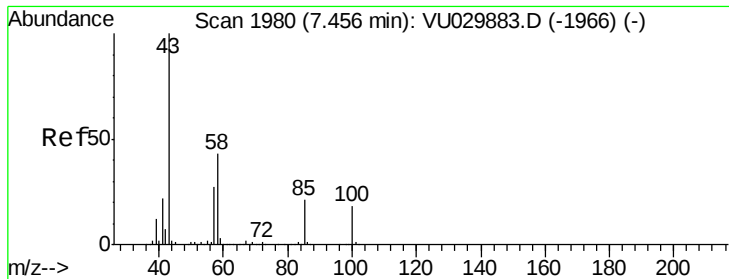
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#38
 Bromodichloromethane
 Concen: 514.040 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. 0.00 min
 Lab File: VU029906.D
 Acq: 08 Mar 2019 22:25

Tgt Ion: 83 Resp: 378808
 Ion Ratio Lower Upper
 83 100
 85 64.8 44.2 82.0
 127 9.5 8.3 12.5





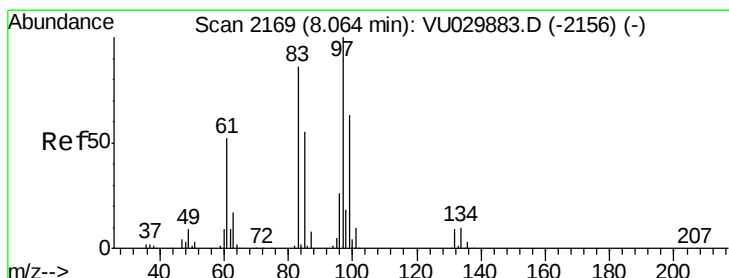
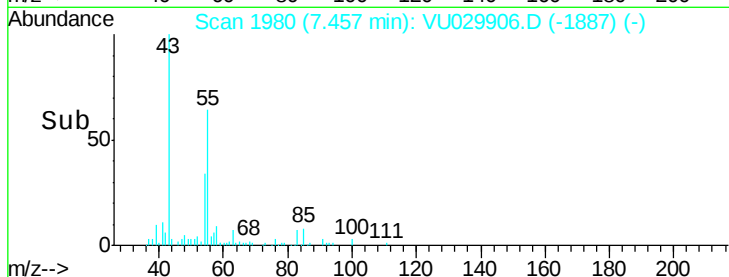
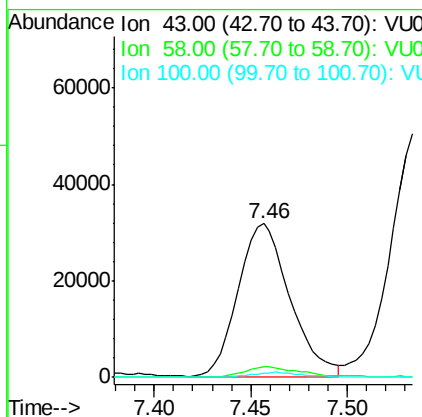
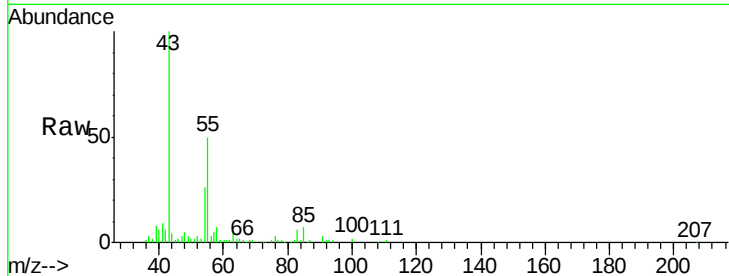
#40
4-Methyl-2-pentanone
Concen: 76.575 ug/L
RT: 7.46 min Scan# 1980
Delta R.T. 0.00 min
Lab File: VU029906.D
Acq: 08 Mar 2019 22:25

Instrument :
MSVOA_U
ClientSampled :
C0959

Tot Ion	Ratio	Lower	Upper
43	100		
58	7.5	33.0	49.4#
100	3.1	14.5	21.7#

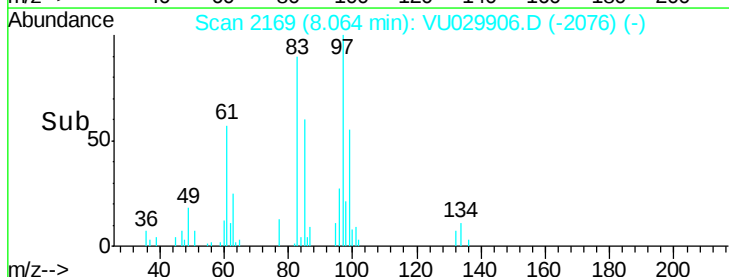
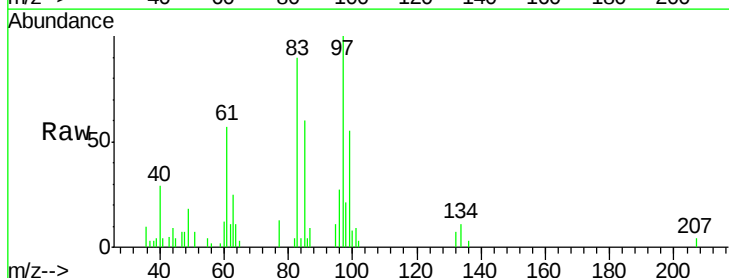
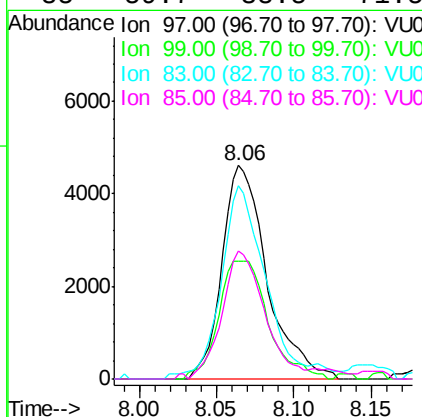
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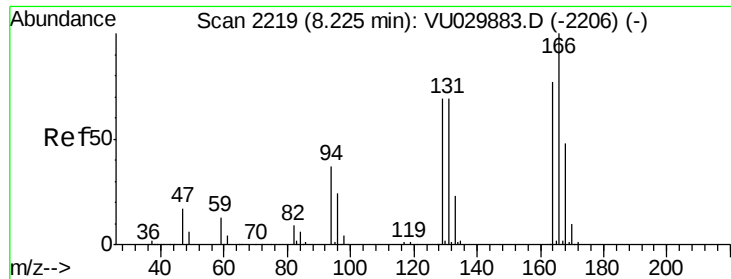
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#45
1,1,2-Trichloroethane
Concen: 16.008 ug/L
RT: 8.06 min Scan# 2169
Delta R.T. 0.00 min
Lab File: VU029906.D
Acq: 08 Mar 2019 22:25

Tgt Ion	Ratio	Lower	Upper
97	100		
99	55.1	43.8	81.3
83	90.3	57.7	107.1
85	59.7	38.5	71.5





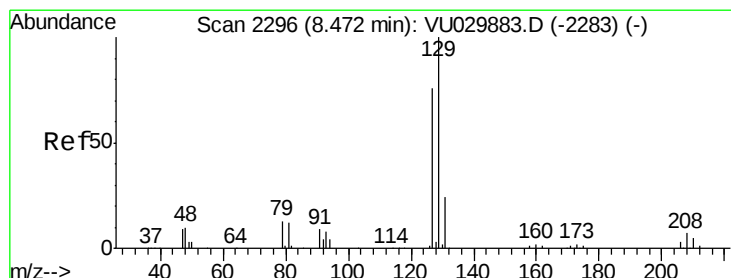
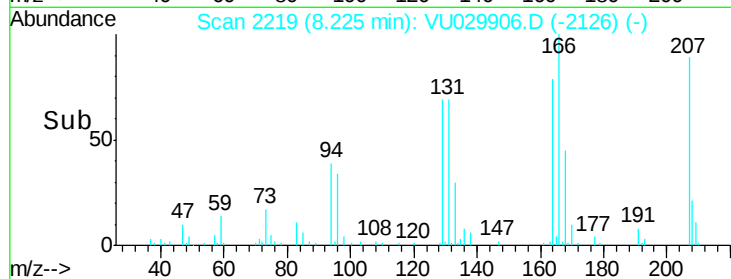
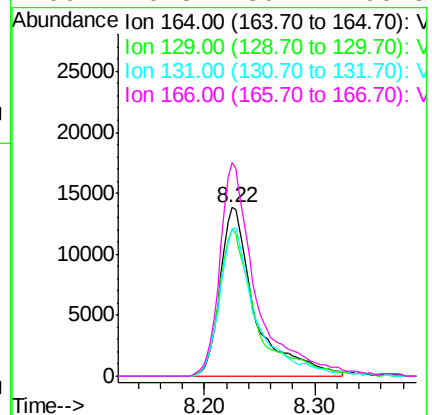
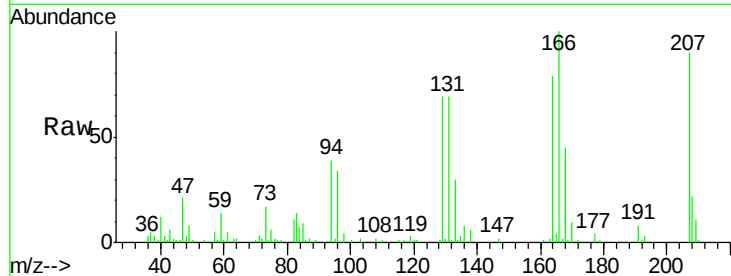
#46
Tetrachloroethene
Concen: 55.683 ug/L
RT: 8.22 min Scan# 2219
Delta R.T. 0.00 min
Lab File: VU029906.D
Acq: 08 Mar 2019 22:25

Instrument :
MSVOA_U
ClientSampled :
C0959

Tot Ion	Ratio	Lower	Upper
164	100		
129	87.6	62.1	115.3
131	87.6	60.1	111.5
166	126.8	89.7	166.5

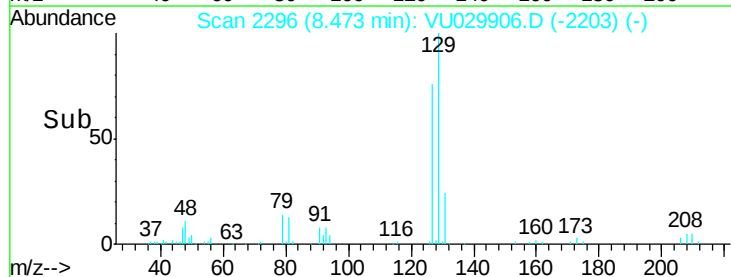
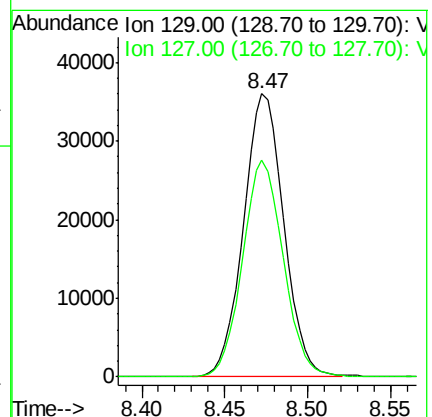
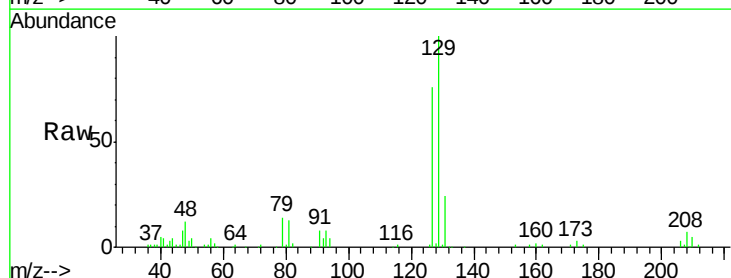
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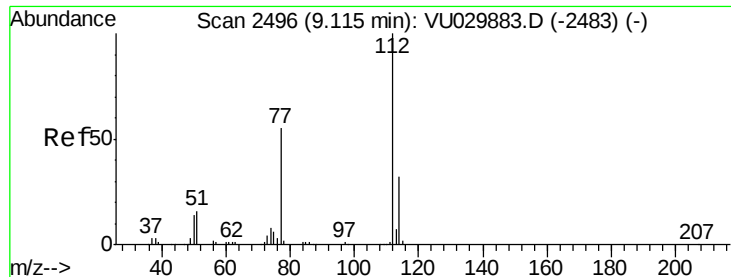
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#49
Dibromochloromethane
Concen: 86.283 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU029906.D
Acq: 08 Mar 2019 22:25

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.4	54.4	101.0





#51

Chlorobenzene

Concen: 7.473 ug/L m

RT: 9.14 min Scan# 2505

Delta R.T. 0.03 min

Lab File: VU029906.D

Acq: 08 Mar 2019 22:25

Instrument :

MSVOA_U

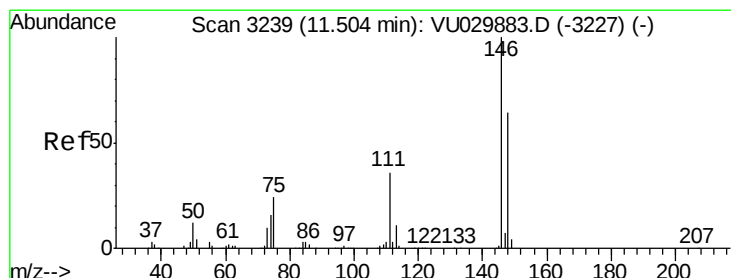
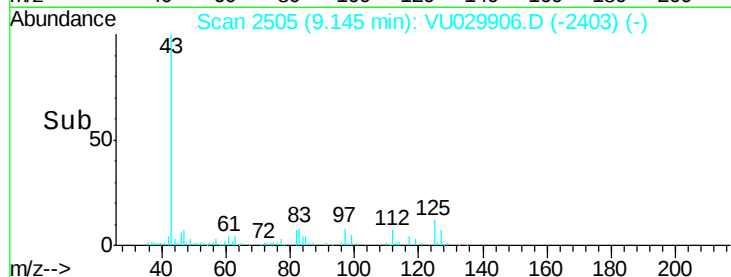
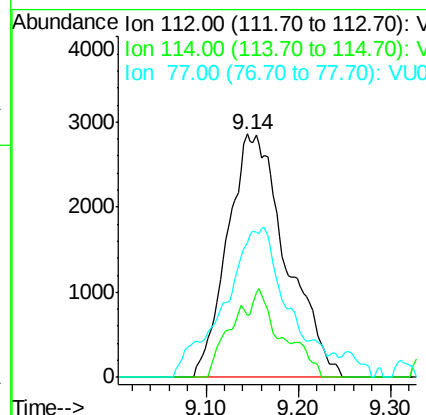
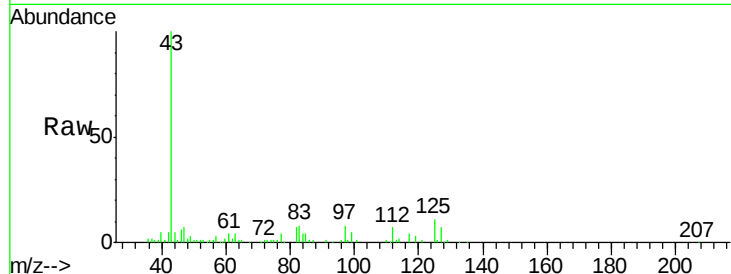
ClientSampleId :

C0959

Tot Ion:	112	Resp:	12631
Ion Ratio	Lower	Upper	
112	100		
114	25.5	22.7	42.1
77	55.5	42.1	63.1

Manual Integrations
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#63

1,4-Dichlorobenzene

Concen: 0.814 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU029906.D

Acq: 08 Mar 2019 22:25

Tgt Ion:	146	Resp:	16733
Ion Ratio	Lower	Upper	
146	100		
111	40.1	25.1	46.5
148	66.4	45.0	83.6

