

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU031119\
 Data File : VU029900.D
 Acq On : 08 Mar 2019 20:06
 Operator : JC/SP
 Sample : K1763-03
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0958

Manual Integrations
 APPROVED

MMDadoda
 3/11/2019 10:52:22 AM

Quant Time: Mar 11 10:50:08 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	470927	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	461280	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	231460	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	123610	35.82	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	71.64%
7) Chloroethane-d5	1.68	69	114902	37.45	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	74.90%
11) 1,1-Dichloroethene-d2	2.27	63	229970	34.09	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	68.18%
21) 2-Butanone-d5	4.17	46	245703	117.00	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	117.00%
24) Chloroform-d	4.65	84	287904	51.44	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.88%
26) 1,2-Dichloroethane-d4	5.31	65	169723	47.90	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.80%
32) Benzene-d6	5.34	84	573705	49.43	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.86%
36) 1,2-Dichloropropane-d6	6.33	67	184625	52.87	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	105.74%
41) Toluene-d8	7.56	98	529238	44.68	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.36%
43) trans-1,3-Dichloropropene-	7.85	79	82057	44.30	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	88.60%
47) 2-Hexanone-d5	8.31	63	202003	103.88	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	103.88%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	294113	49.85	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.70%
64) 1,2-Dichlorobenzene-d4	11.86	152	236705	47.45	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.90%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
12) 1,1-Dichloroethene	2.28	96	100697	32.290	ug/L	93
13) Acetone	2.32	43	58663	26.142	ug/L	98
16) Methylene chloride	2.70	84	6641043	2200.732	ug/L	98
19) 1,1-Dichloroethane	3.44	63	13287	2.670	ug/L	96
20) cis-1,2-Dichloroethene	4.22	96	242206	72.418	ug/L	95
22) 2-Butanone	4.27	43	11642m	4.546	ug/L	
23) Bromochloromethane	4.56	128	5565	3.035	ug/L	99
25) Chloroform	4.67	83	319951	57.617	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	11981	2.450	ug/L	98
31) Carbon tetrachloride	5.13	117	5921	1.338	ug/L	99
34) Trichloroethene	6.19	95	12410514	3895.411	ug/L	94
38) Bromodichloromethane	6.76	83	14428	3.447	ug/L #	99
42) Toluene	7.64	91	34387	2.459	ug/L	97
45) 1,1,2-Trichloroethane	8.07	97	9905	2.993	ug/L	91
46) Tetrachloroethene	8.22	164	66952	21.471	ug/L	97
49) Dibromochloromethane	8.48	129	5369	1.338	ug/L	96
54) o-xylene	9.77	106	141280	22.058	ug/L	94

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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)
65) 1,2-Dichlorobenzene	11.88	146	14087	1.829	ug/L	99

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

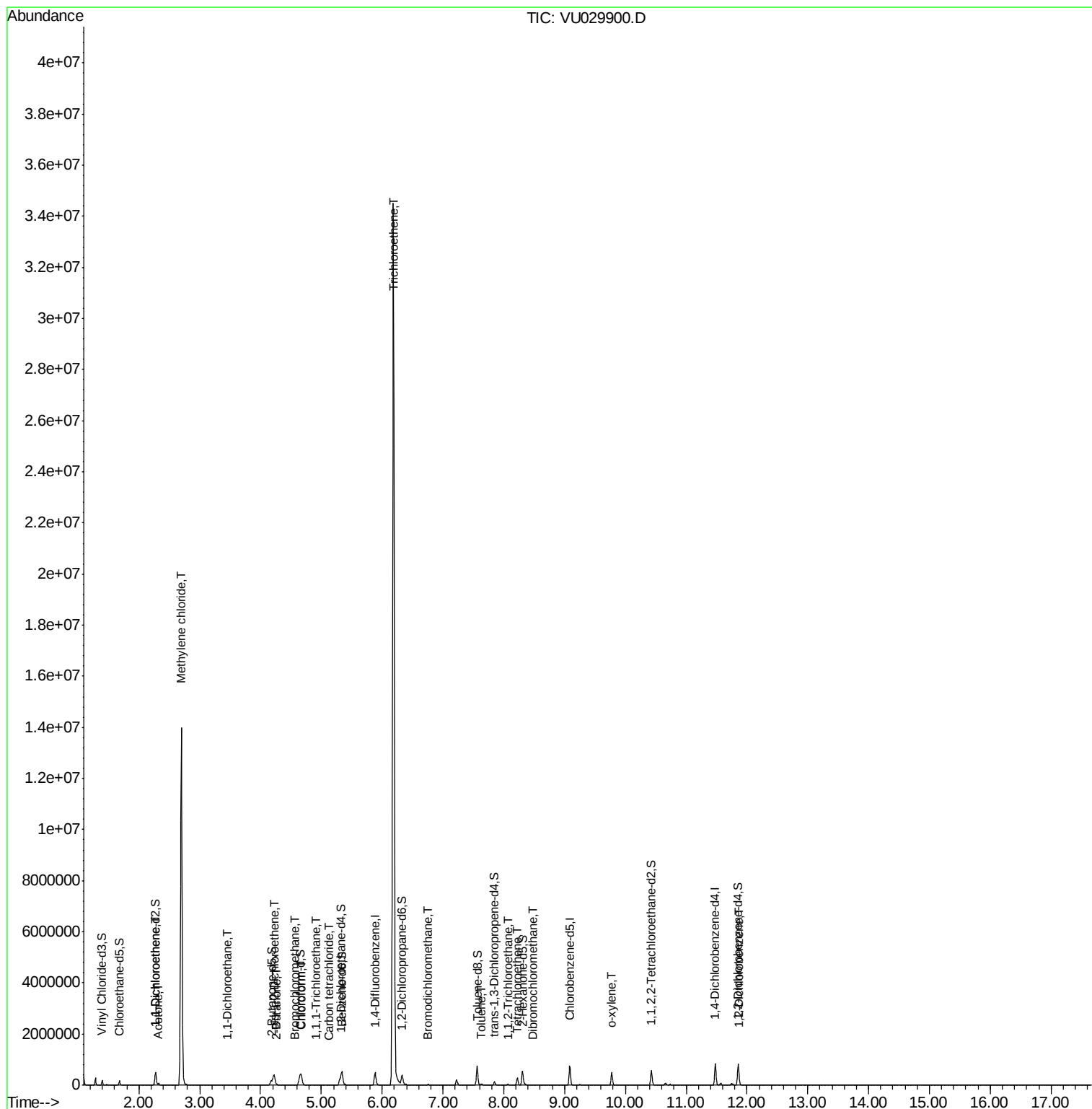
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Data File : VU029900.D
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Sample : K1763-03
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 19 Sample Multiplier: 1

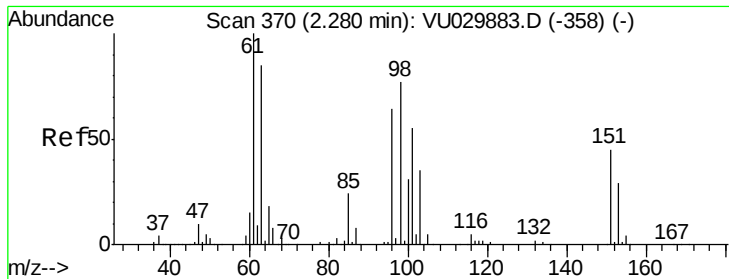
Instrument :
MSVOA_U
ClientSampleId :
C0958

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Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 32.290 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU029900.D

Acq: 08 Mar 2019 20:06

Instrument :

MSVOA_U

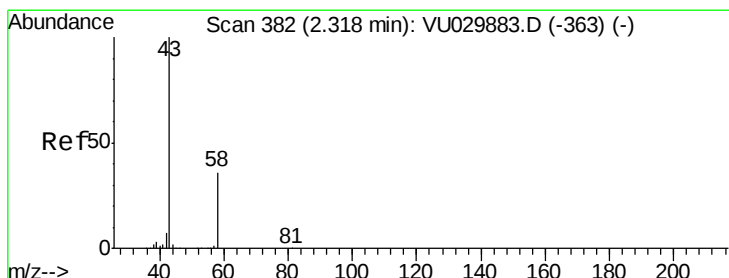
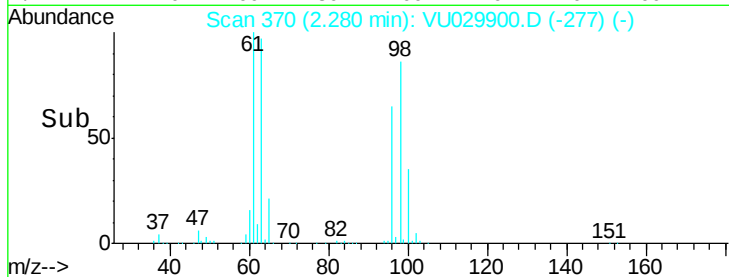
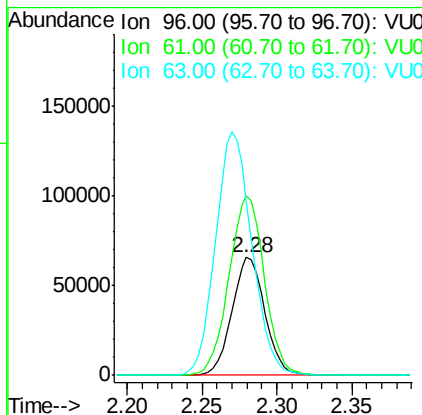
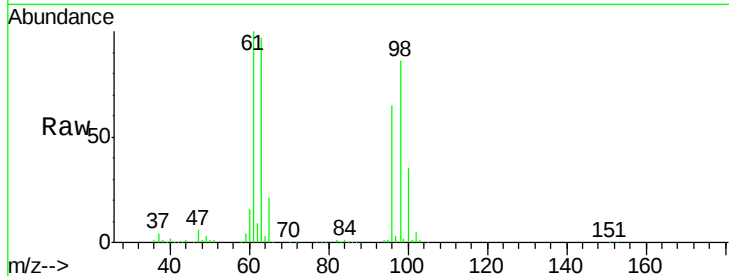
ClientSampled :

C0958

Tot Ion:	96	Resp:	100697
Ion	Ratio	Lower	Upper
96	100		
61	153.0	114.0	211.8
63	148.5	98.7	183.3

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#13

Acetone

Concen: 26.142 ug/L

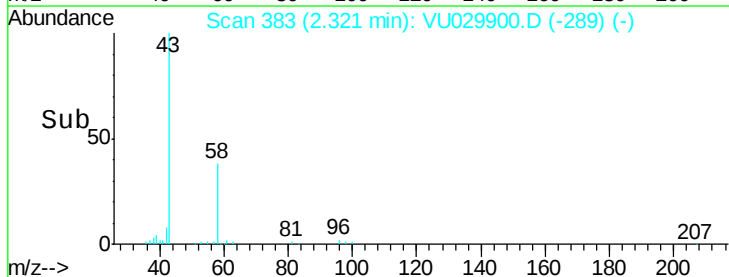
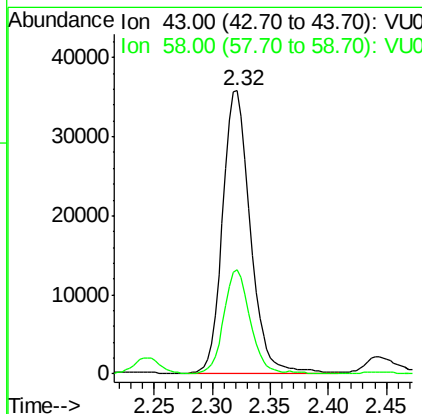
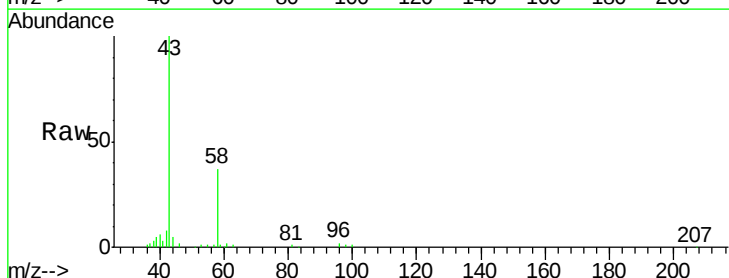
RT: 2.32 min Scan# 383

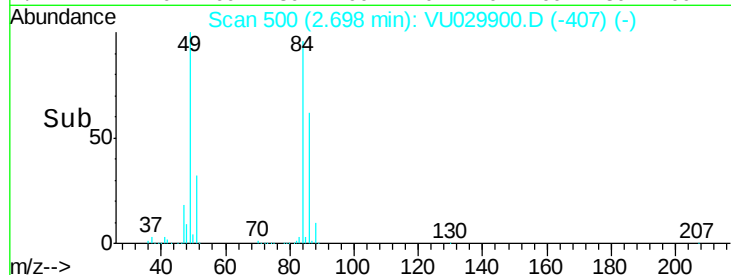
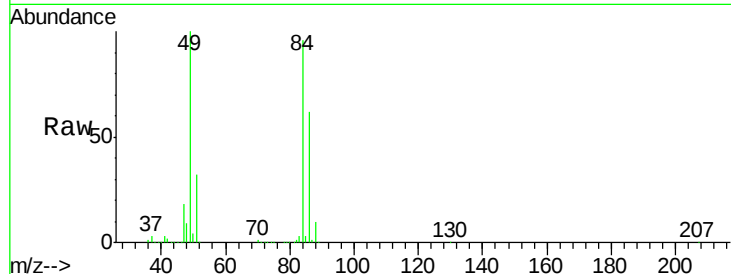
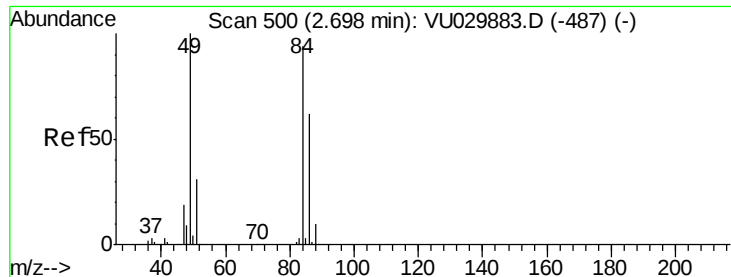
Delta R.T. 0.00 min

Lab File: VU029900.D

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Tgt Ion:	43	Resp:	58663
Ion	Ratio	Lower	Upper
43	100		
58	34.4	0.0	66.8





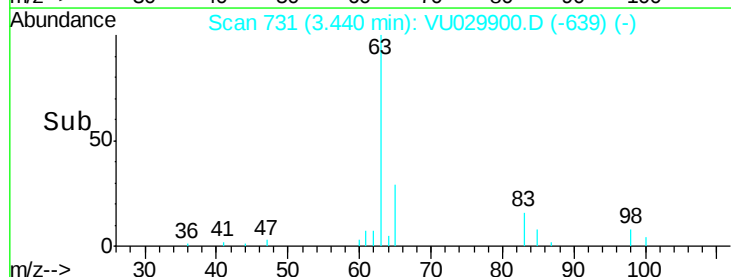
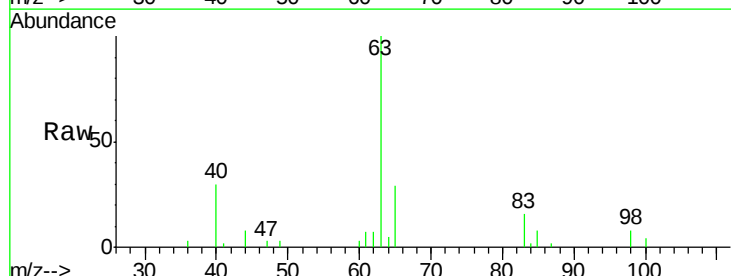
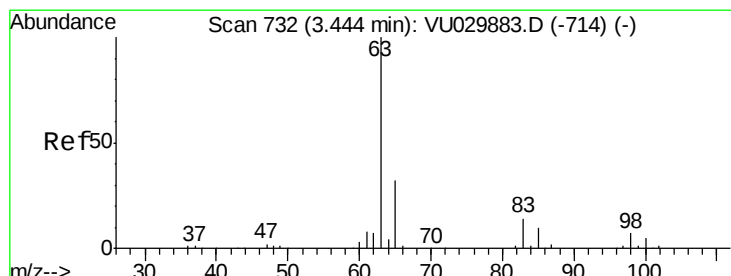
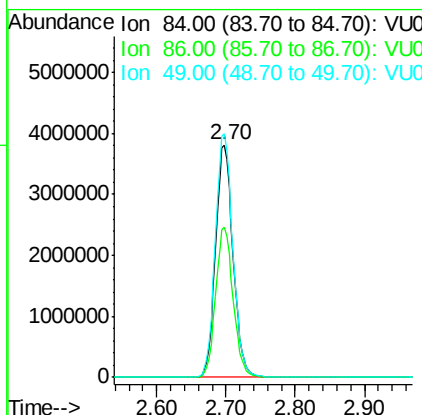
#16
Methvlene chloride
Concen: 2200.732 ug/L
RT: 2.70 min Scan# 500
Delta R.T. -0.00 min
Lab File: VU029900.D
Acq: 08 Mar 2019 20:06

Tot Ion: 84 Resp: 6641043
Ion Ratio Lower Upper
84 100
86 64.8 45.8 85.0
49 104.7 75.1 139.5

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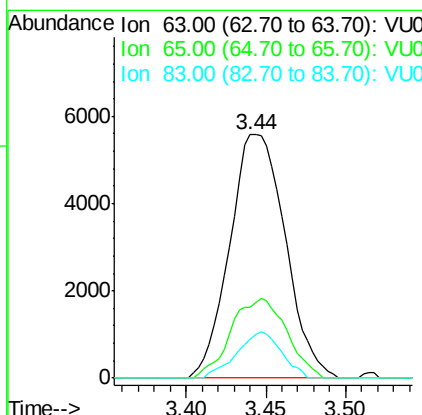
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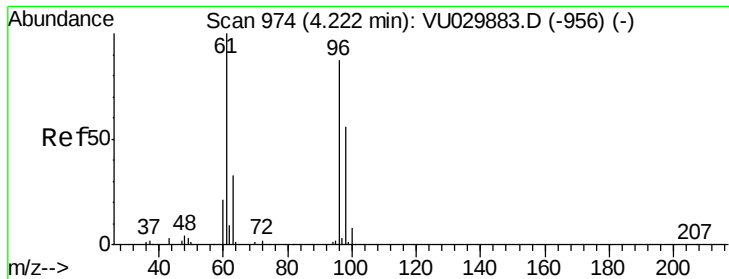
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#19
1,1-Dichloroethane
Concen: 2.670 ug/L
RT: 3.44 min Scan# 731
Delta R.T. -0.00 min
Lab File: VU029900.D
Acq: 08 Mar 2019 20:06

Tgt Ion: 63 Resp: 13287
Ion Ratio Lower Upper
63 100
65 29.3 22.3 41.3
83 15.8 9.9 18.3





#20

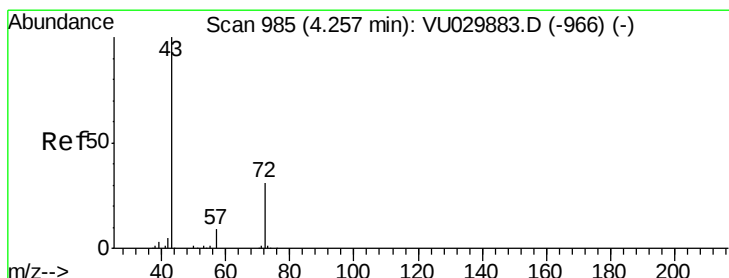
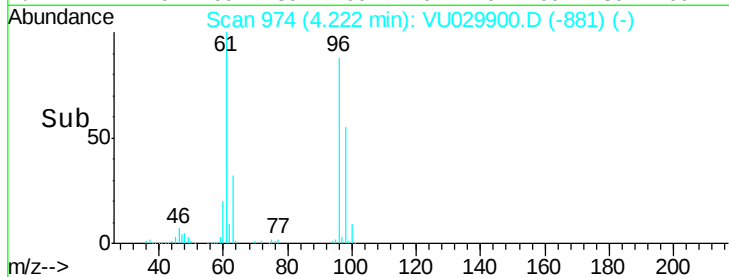
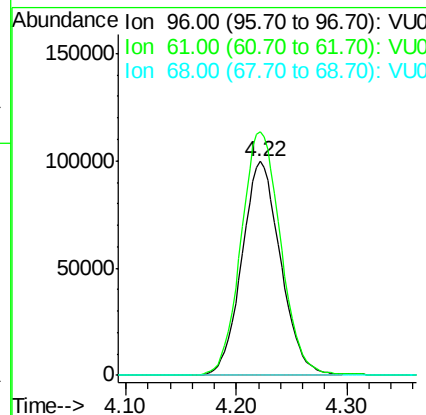
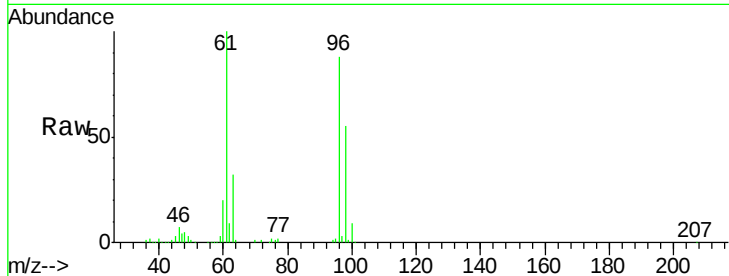
cis-1,2-Dichloroethene
Concen: 72.418 ug/L
RT: 4.22 min Scan# 974
Delta R.T. -0.00 min
Lab File: VU029900.D
Acq: 08 Mar 2019 20:06

Instrument :
MSVOA_U
ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
96	100		
61	114.0	83.9	155.7
68	0.0	0.0	0.0

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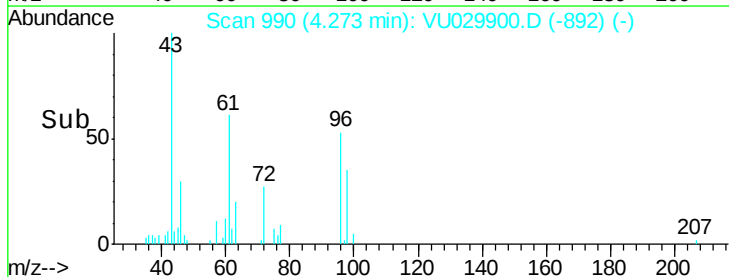
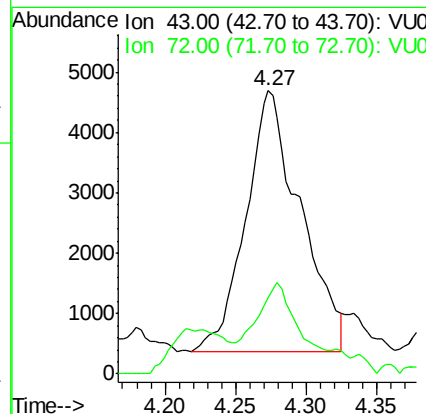
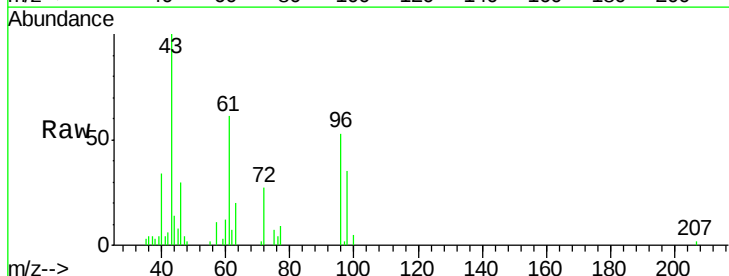
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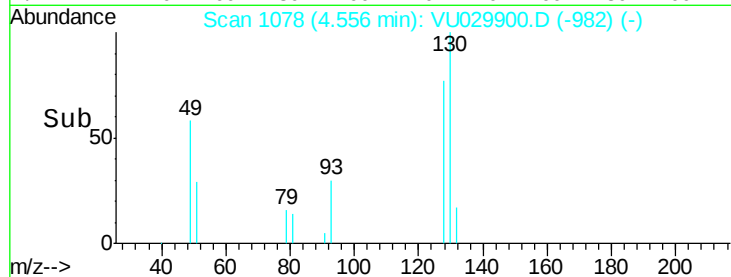
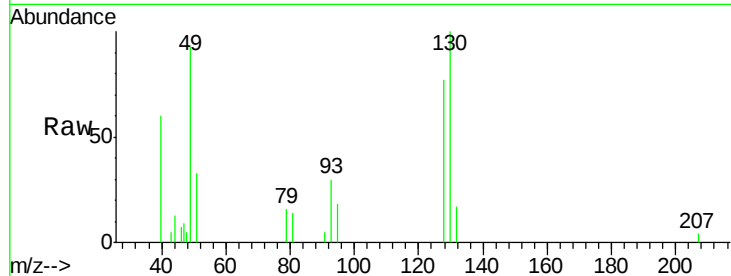
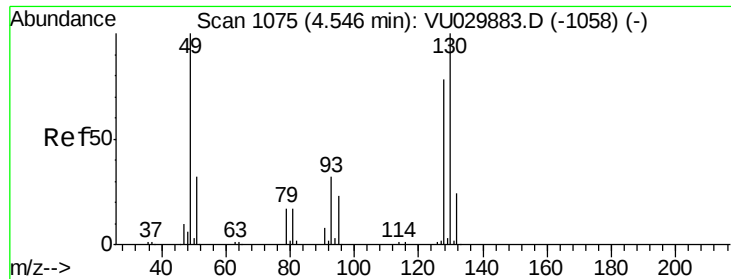


#22

2-Butanone
Concen: 4.546 ug/L m
RT: 4.27 min Scan# 990
Delta R.T. 0.02 min
Lab File: VU029900.D
Acq: 08 Mar 2019 20:06

Tgt Ion	Ratio	Lower	Upper
43	100		
72	15.6	15.2	45.6





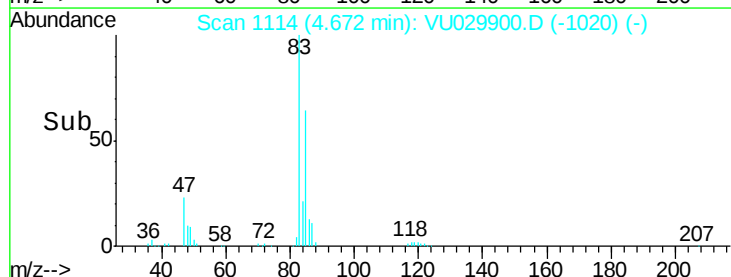
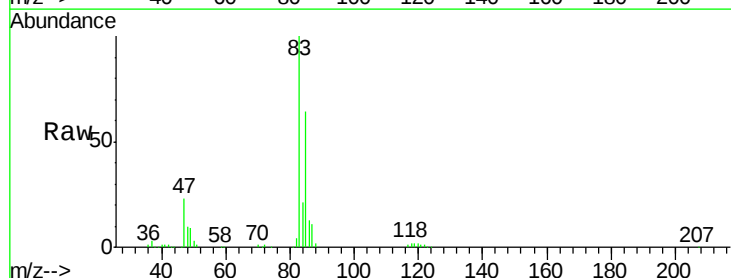
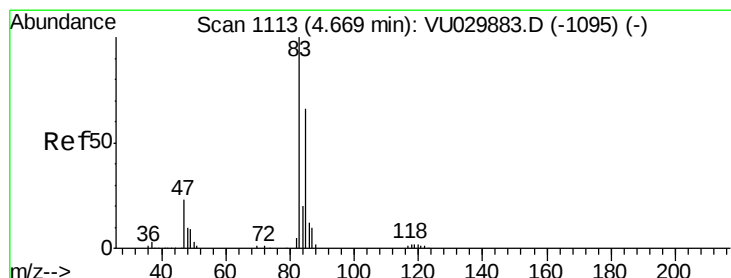
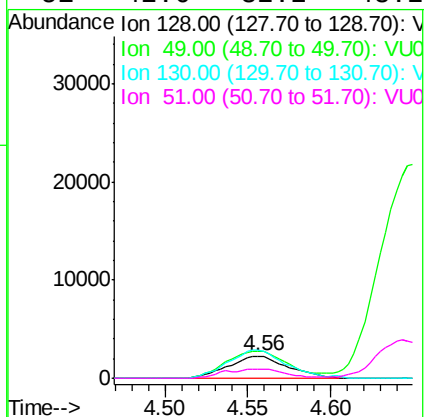
#23
Bromochloromethane
Concen: 3.035 ug/L
RT: 4.56 min Scan# 1078
Delta R.T. 0.01 min
Lab File: VU029900.D
Acq: 08 Mar 2019 20:06

Tot Ion	Ratio	Resp	Lower	Upper
128	100	5565		
49	121.3		85.9	159.5
130	130.4		91.3	169.5
51	42.6		32.2	48.2

Instrument :
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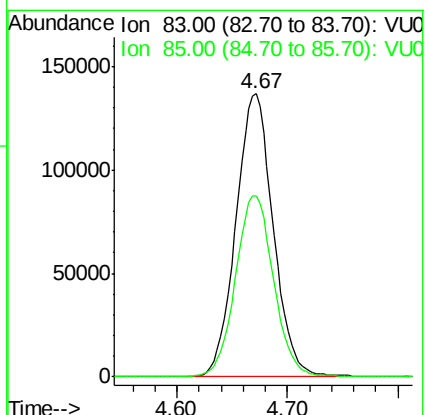
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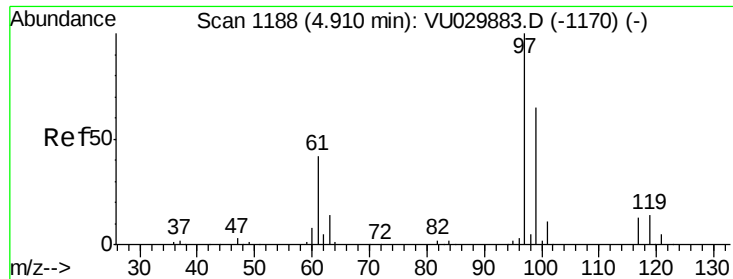
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#25
Chloroform
Concen: 57.617 ug/L
RT: 4.67 min Scan# 1114
Delta R.T. 0.00 min
Lab File: VU029900.D
Acq: 08 Mar 2019 20:06

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	319951		
85	63.9		45.4	84.2





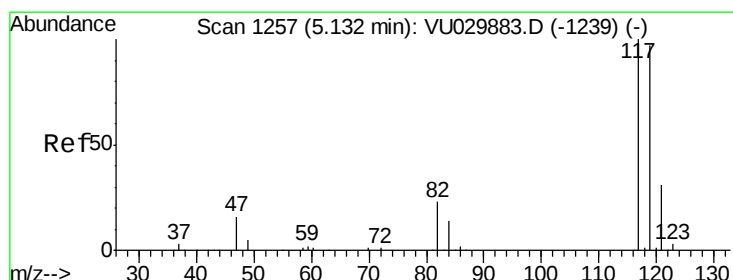
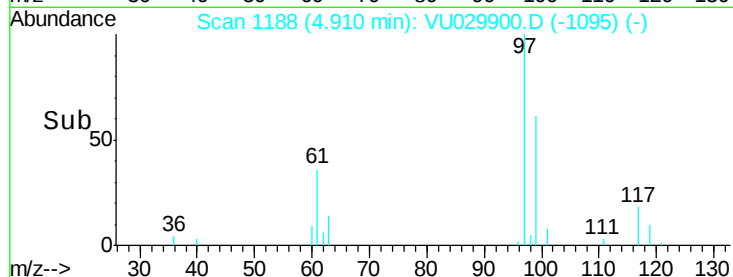
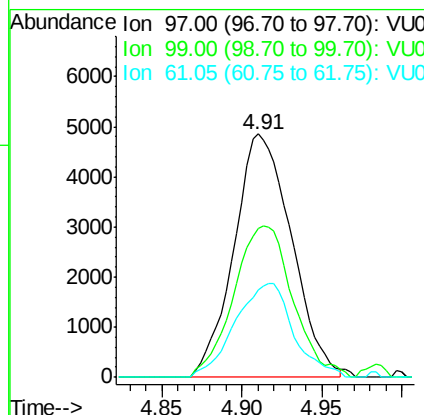
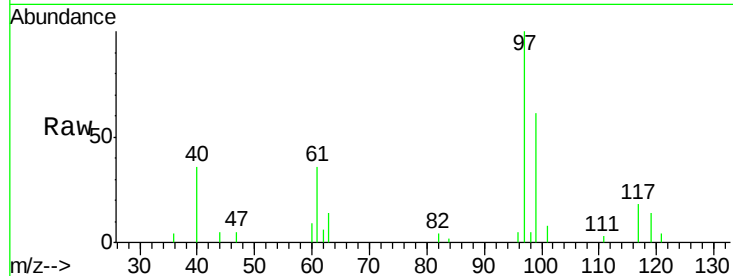
#30
 1,1,1-Trichloroethane
 Concen: 2.450 ug/L
 RT: 4.91 min Scan# 1188
 Delta R.T. -0.00 min
 Lab File: VU029900.D
 Acq: 08 Mar 2019 20:06

Instrument :
 MSVOA_U
 ClientSampled :
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Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		11981		
99	62.6	51.4	77.0		
61	39.1	32.3	48.5		

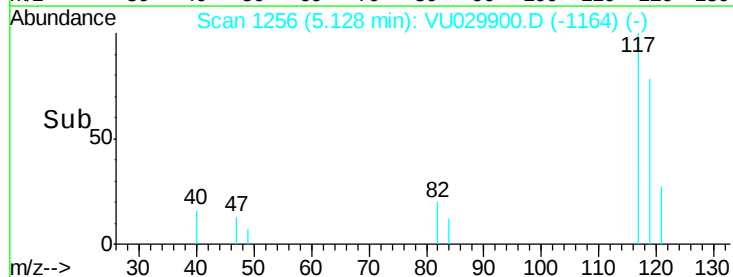
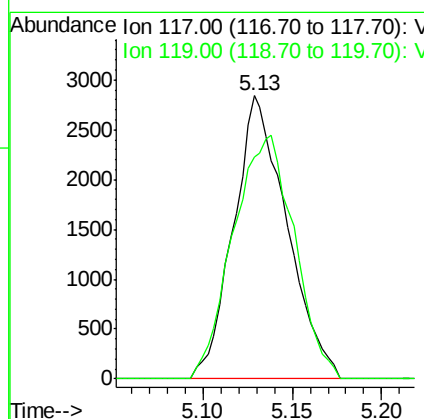
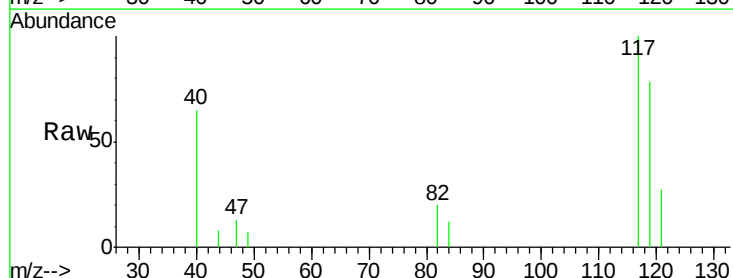
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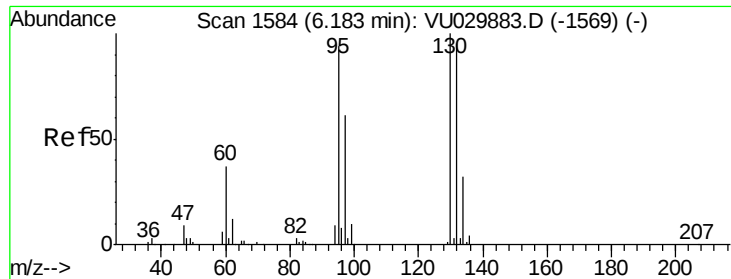
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#31
 Carbon tetrachloride
 Concen: 1.338 ug/L
 RT: 5.13 min Scan# 1256
 Delta R.T. -0.00 min
 Lab File: VU029900.D
 Acq: 08 Mar 2019 20:06

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
117	100		5921		
119	98.3	77.8	116.8		





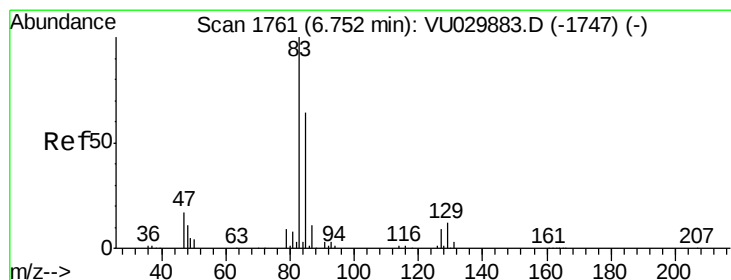
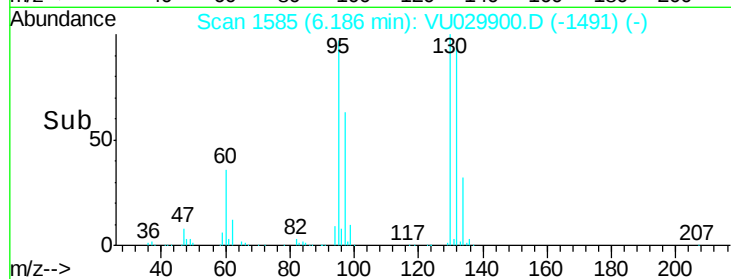
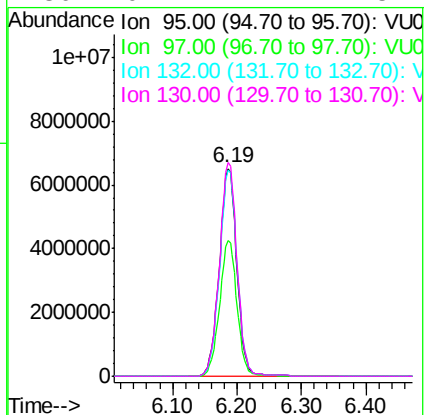
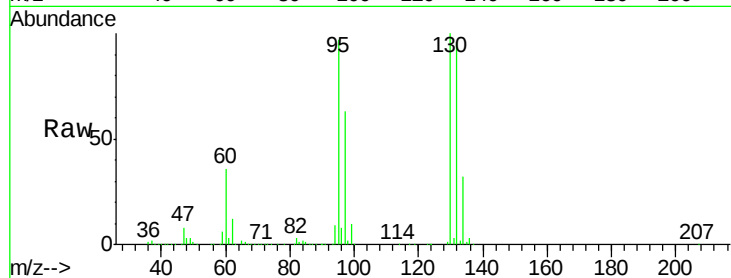
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 Trichloroethene
 Concen: 3895.411 ug/L
 RT: 6.19 min Scan# 1585
 Delta R.T. 0.00 min
 Lab File: VU029900.D
 Acq: 08 Mar 2019 20:06

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Tot Ion: 95 Resp: 12410514
 Ion Ratio Lower Upper
 95 100
 97 65.1 44.6 82.8
 132 98.9 74.6 138.6
 130 102.7 77.2 143.4

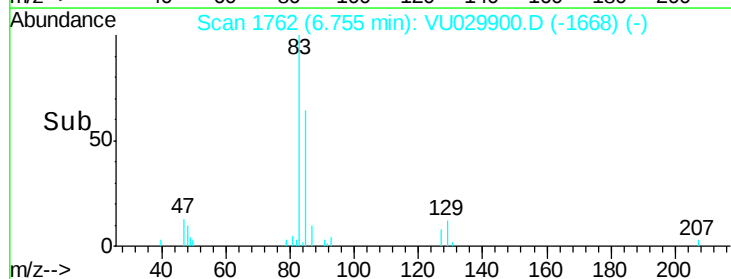
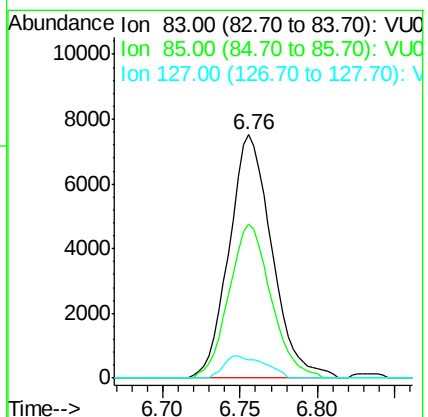
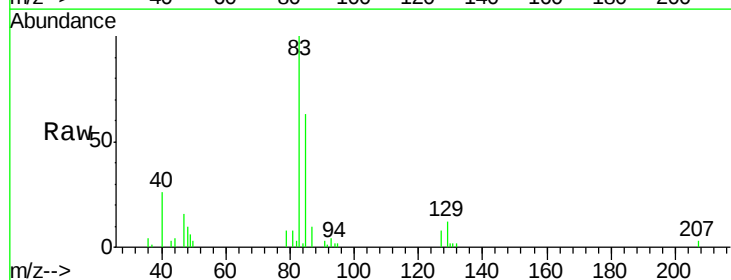
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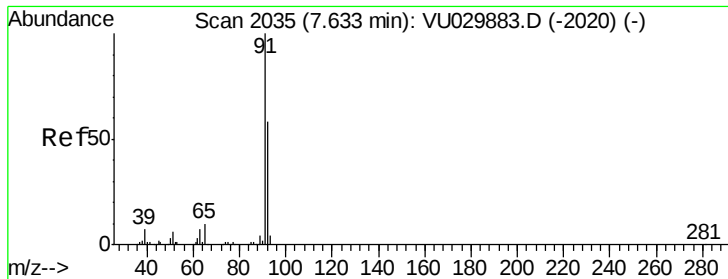
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#38
 Bromodichloromethane
 Concen: 3.447 ug/L
 RT: 6.76 min Scan# 1762
 Delta R.T. 0.00 min
 Lab File: VU029900.D
 Acq: 08 Mar 2019 20:06

Tgt Ion: 83 Resp: 14428
 Ion Ratio Lower Upper
 83 100
 85 63.3 44.2 82.0
 127 7.7 8.3 12.5#





#42

Toluene

Concen: 2.459 ug/L

RT: 7.64 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VU029900.D

Acq: 08 Mar 2019 20:06

Instrument :

MSVOA_U

ClientSampleId :

C0958

Tot Ion: 91 Resp: 34387

Ion Ratio Lower Upper

91 100

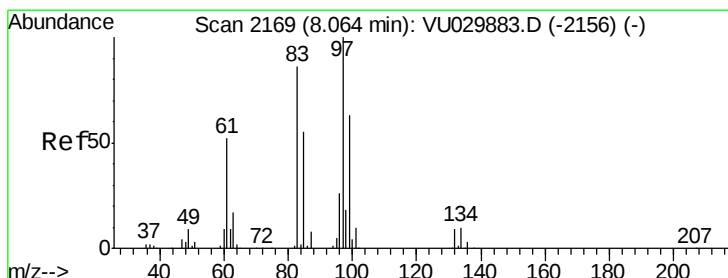
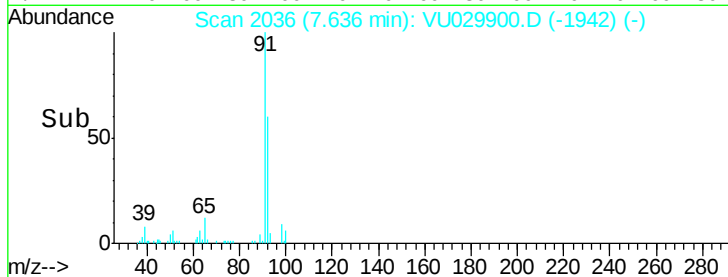
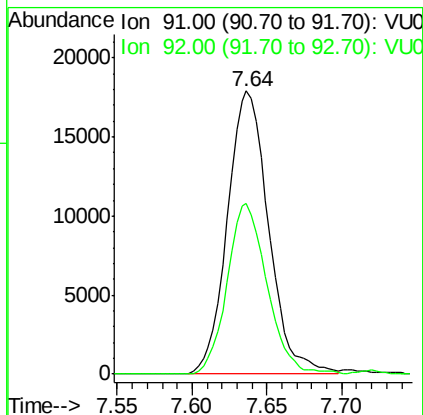
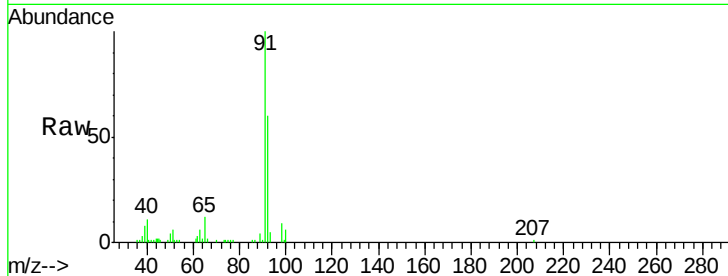
92 60.3 40.8 75.8

Manual Integrations

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#45

1,1,2-Trichloroethane

Concen: 2.993 ug/L

RT: 8.07 min Scan# 2170

Delta R.T. 0.00 min

Lab File: VU029900.D

Acq: 08 Mar 2019 20:06

Tgt Ion: 97 Resp: 9905

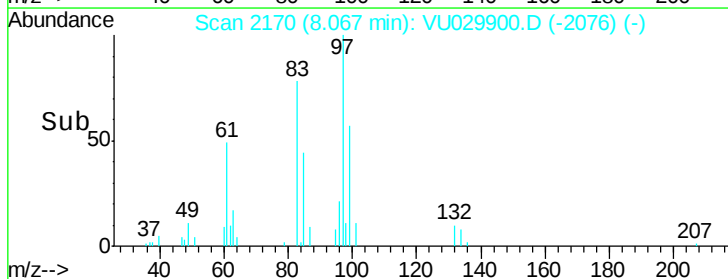
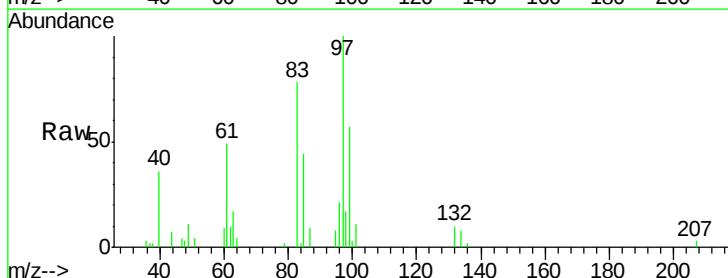
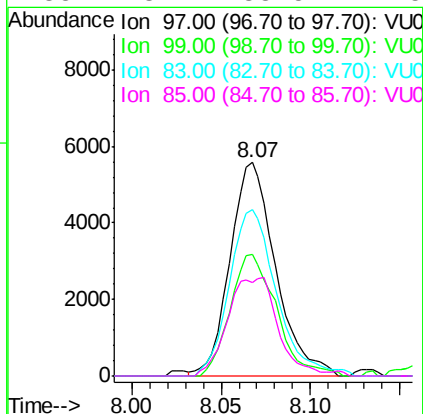
Ion Ratio Lower Upper

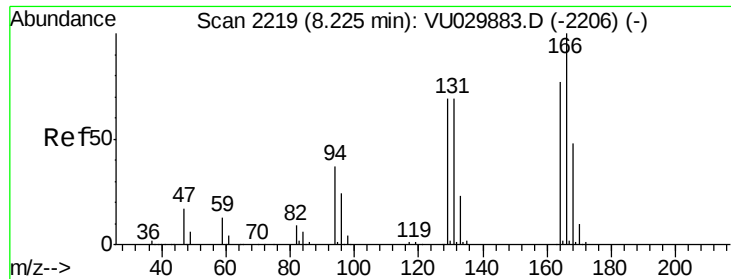
97 100

99 56.7 43.8 81.3

83 78.0 57.7 107.1

85 43.7 38.5 71.5





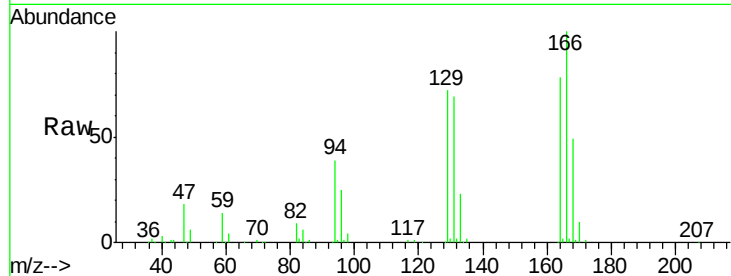
#46
Tetrachloroethene
Concen: 21.471 ug/L
RT: 8.22 min Scan# 2219
Delta R.T. -0.00 min
Lab File: VU029900.D
Acq: 08 Mar 2019 20:06

Instrument :
MSVOA_U
ClientSampleId :
C0958

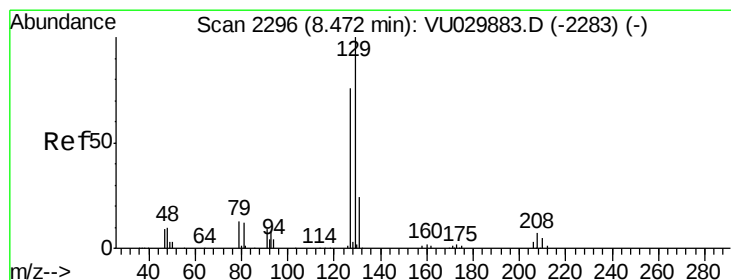
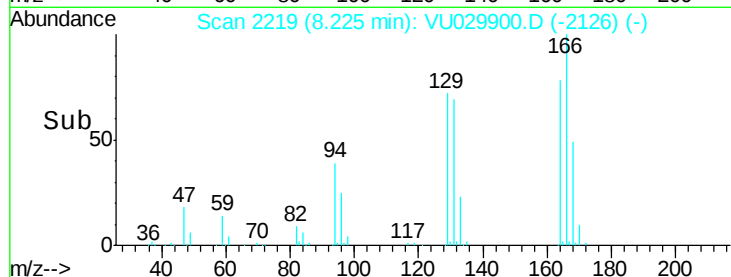
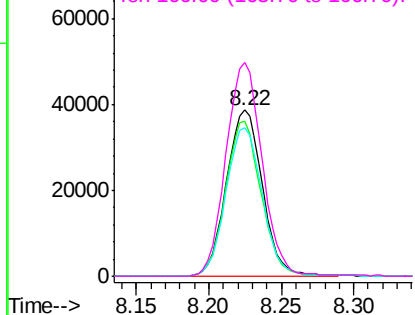
Tot Ion	Ratio	Lower	Upper
164	100		
129	93.1	62.1	115.3
131	89.2	60.1	111.5
166	128.5	89.7	166.5

Manual Integrations
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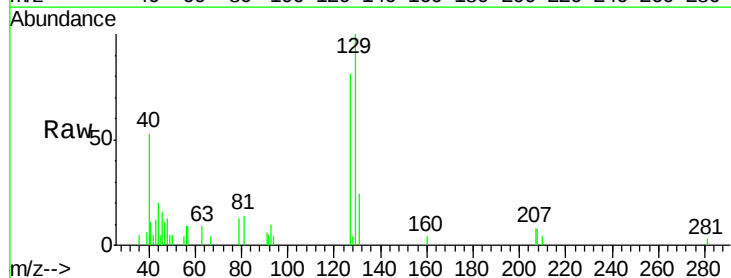


Abundance Ion 164.00 (163.70 to 164.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V
Ion 166.00 (165.70 to 166.70): V

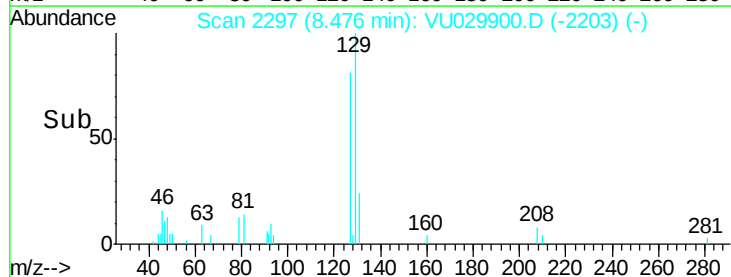
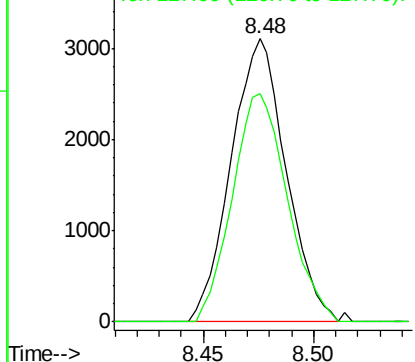


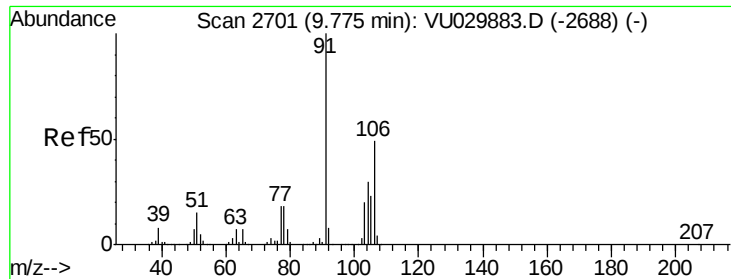
#49
Dibromochloromethane
Concen: 1.338 ug/L
RT: 8.48 min Scan# 2297
Delta R.T. 0.00 min
Lab File: VU029900.D
Acq: 08 Mar 2019 20:06

Tgt Ion	Ratio	Lower	Upper
129	100		
127	80.9	54.4	101.0



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





#54

o-xylene

Concen: 22.058 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU029900.D

Acq: 08 Mar 2019 20:06

Instrument :

MSVOA_U

ClientSampled :

C0958

Tot Ion:106 Resp: 141280

Ion Ratio Lower Upper

106 100

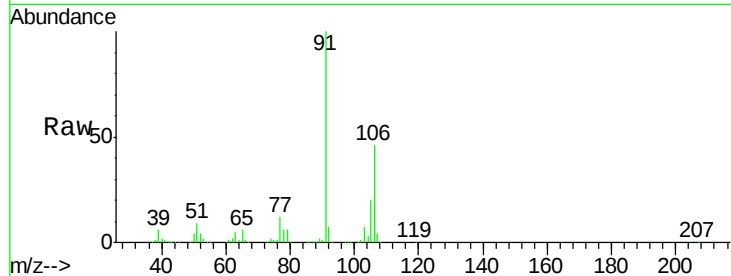
91 215.4 144.5 268.3

Manual Integrations

APPROVED

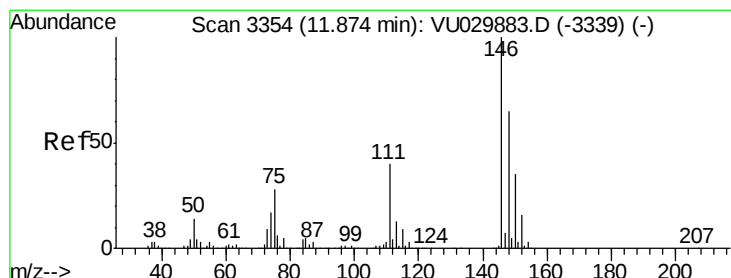
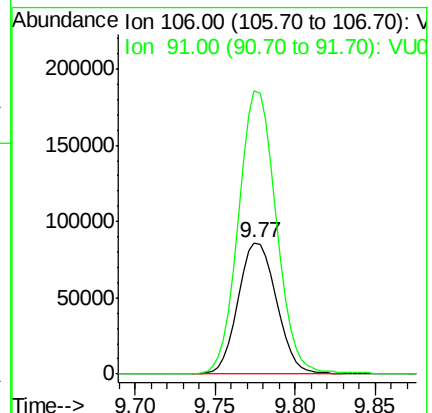
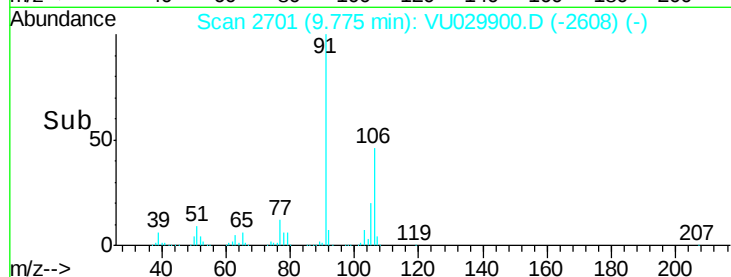
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#65

1,2-Dichlorobenzene

Concen: 1.829 ug/L

RT: 11.88 min Scan# 3355

Delta R.T. 0.00 min

Lab File: VU029900.D

Acq: 08 Mar 2019 20:06

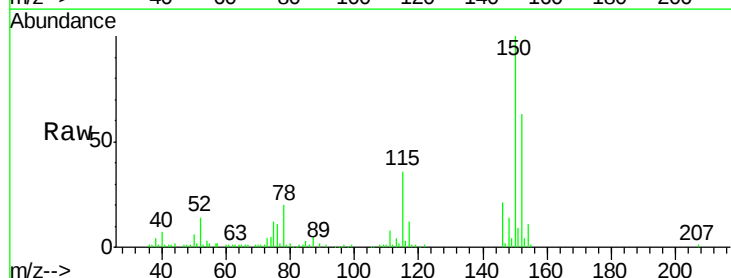
Tgt Ion:146 Resp: 14087

Ion Ratio Lower Upper

146 100

111 38.5 31.2 46.8

148 63.7 51.6 77.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

