

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU010921\
 Data File : VU041896.D
 Acq On : 08 Jan 2021 11:38
 Operator : SY/MD
 Sample : M1027-03
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFXM4

Manual Integrations
 APPROVED

MMDadoda
 1/11/2021 1:41:56 PM

Quant Time: Jan 09 01:50:46 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Jan 09 01:31:59 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	138468	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	138342	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	58655	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	39453	3.65	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	73.00%
7) Chloroethane-d5	1.92	69	40517	4.84	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	96.80%
11) 1,1-Dichloroethene-d2	2.58	63	65684	3.29	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	65.80%
20) 2-Butanone-d5	4.65	46	169227	54.42	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	108.84%
24) Chloroform-d	5.08	84	96703	5.21	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.20%
26) 1,2-Dichloroethane-d4	5.72	65	55112	5.24	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.80%
32) Benzene-d6	5.74	84	182800	4.61	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.20%
36) 1,2-Dichloropropane-d6	6.70	67	62504	5.03	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.60%
41) Toluene-d8	7.90	98	156707	4.38	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.60%
43) trans-1,3-Dichloropropene-	8.18	79	23538	4.22	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.40%
46) 2-Hexanone-d5	8.64	63	157256	51.51	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	103.02%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	54615	4.84	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.80%
64) 1,2-Dichlorobenzene-d4	12.19	152	58312	5.59	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	111.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.39	85	60902	5.192	ug/L	100
3) Chloromethane	1.53	50	2272	0.199	ug/L	100
5) Vinyl chloride	1.61	62	728	0.058	ug/L #	1
9) Trichlorofluoromethane	2.15	101	6041	0.379	ug/L	100
12) 1,1-Dichloroethene	2.59	96	9924	1.057	ug/L #	24
13) Acetone	2.67	43	3869m	1.956	ug/L	
16) Methylene chloride	3.06	84	1248	0.111	ug/L	80
17) Methyl tert-butyl Ether	3.38	73	6371	0.254	ug/L	95
18) trans-1,2-Dichloroethene	3.37	96	2576	0.265	ug/L	94
19) 1,1-Dichloroethane	3.89	63	21673	1.193	ug/L	95
22) cis-1,2-Dichloroethene	4.69	96	18597	1.732	ug/L	99
29) 1,1,1-Trichloroethane	5.33	97	3324	0.209	ug/L	99
33) Benzene	5.79	78	2690	0.061	ug/L	100
34) Trichloroethene	6.55	95	246715	22.191	ug/L	97
47) Tetrachloroethene	8.56	164	382764	49.180	ug/L	97
63) 1,4-Dichlorobenzene	11.83	146	61124	3.389	ug/L	98
65) 1,2-Dichlorobenzene	12.20	146	44666	2.543	ug/L	95

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Jan 09 01:31:59 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

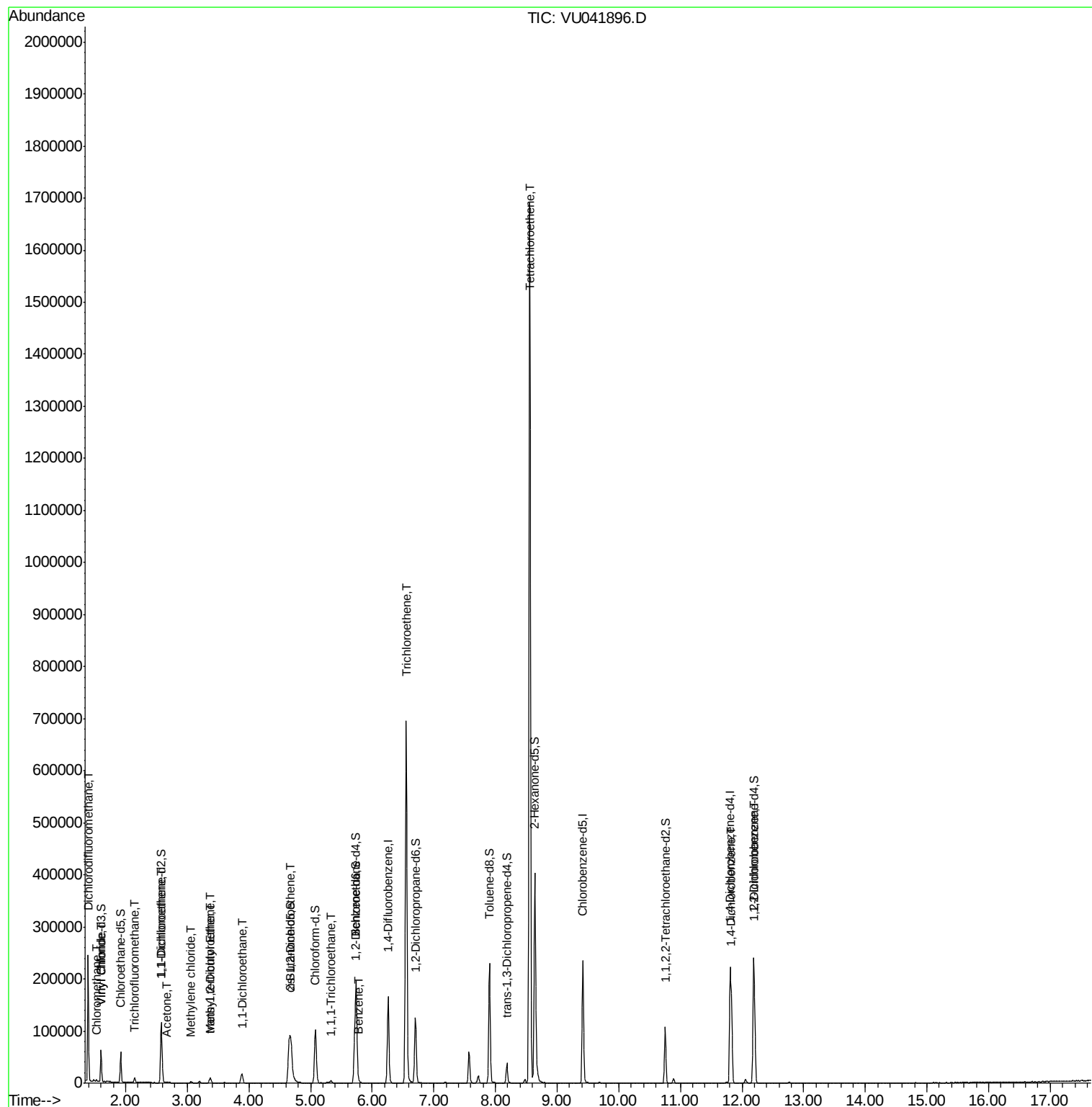
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU010921\
Data File : VU041896.D
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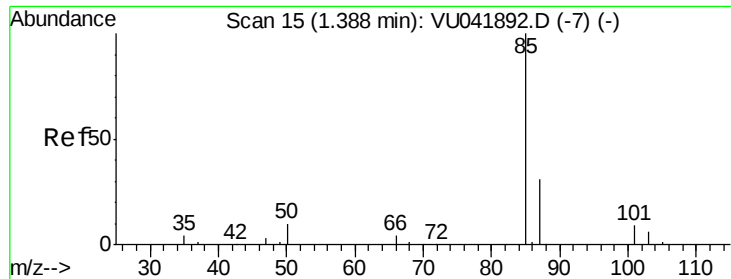
Instrument :
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Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Jan 09 01:31:59 2021
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 5.192 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU041896.D

Acq: 08 Jan 2021 11:38

Instrument :

MSVOA_U

ClientSampleId :

BFXM4

Tgt Ion: 85 Resp: 60902

Ion Ratio Lower Upper

85 100

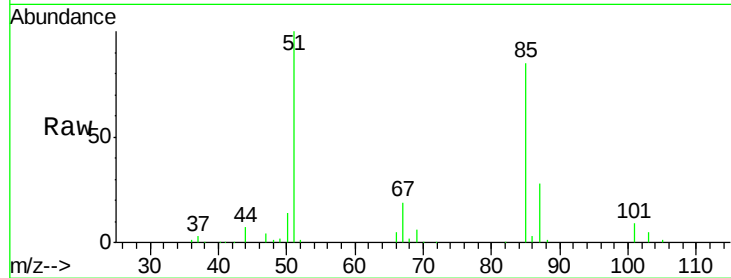
87 32.5 25.8 38.6

Manual Integrations

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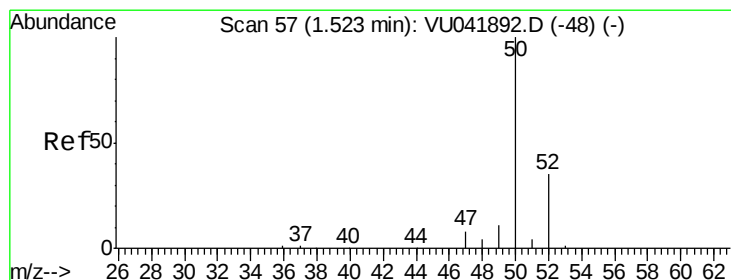
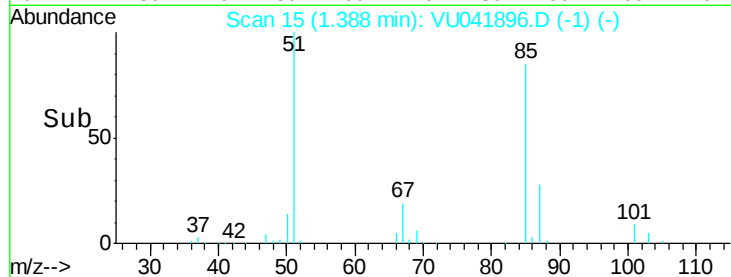
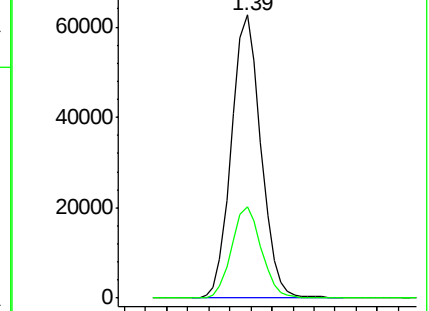
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Abundance Ion 85.00 (84.70 to 85.70): VU041892.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VU041892.D (-7) (-)



#3

Chloromethane

Concen: 0.199 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU041896.D

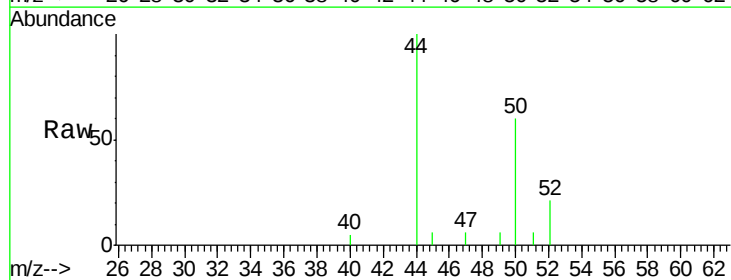
Acq: 08 Jan 2021 11:38

Tgt Ion: 50 Resp: 2272

Ion Ratio Lower Upper

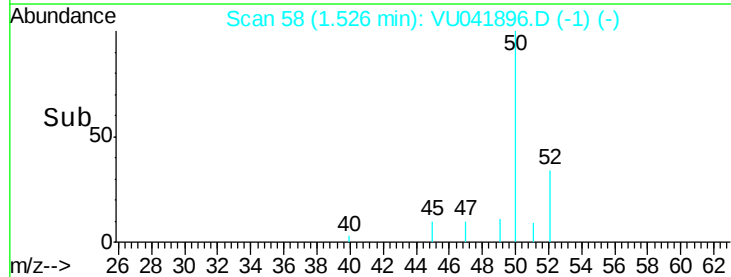
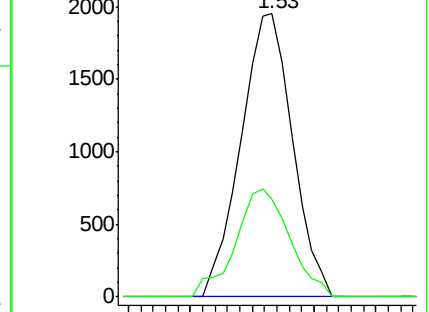
50 100

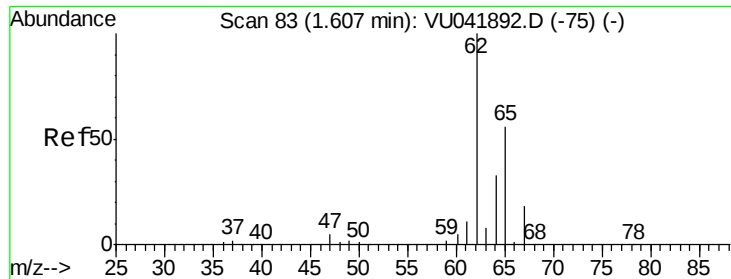
52 34.3 24.1 44.8



Abundance Ion 50.05 (49.75 to 50.75): VU041892.D (-48) (-)

Ion 52.05 (51.75 to 52.75): VU041892.D (-48) (-)





#5

Vinyl chloride

Concen: 0.058 ug/L

RT: 1.61 min Scan# 83

Delta R.T. -0.00 min

Lab File: VU041896.D

Acq: 08 Jan 2021 11:38

Instrument :

MSVOA_U

ClientSampled :

BFXM4

Tgt Ion: 62 Resp: 728

Ion Ratio Lower Upper

62 100

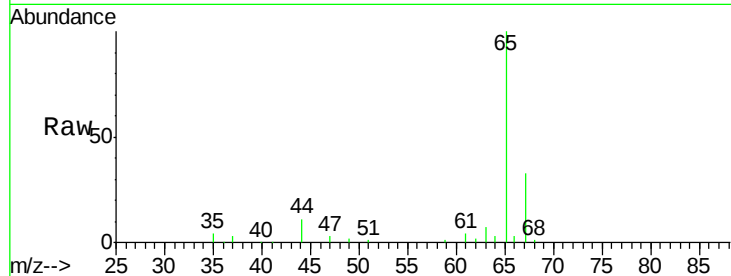
64 135.2 22.5 41.7#

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Abundance Ion 62.00 (61.70 to 62.70): VU041892.D (-75) (-)

Ion 64.10 (63.80 to 64.80): VU041892.D (-75) (-)

1000

800

600

400

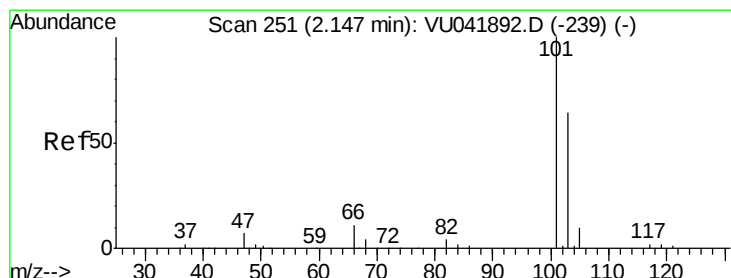
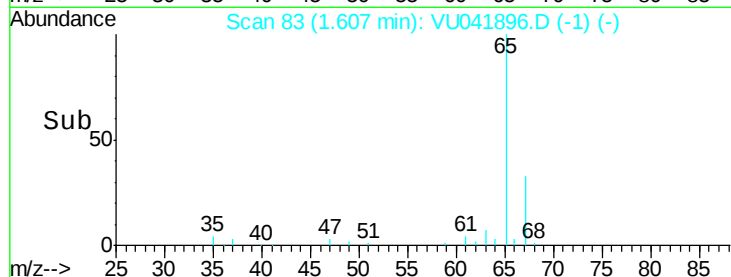
200

0

1.58 1.60 1.62 1.64

1.61

Time-->



#9

Trichlorofluoromethane

Concen: 0.379 ug/L

RT: 2.15 min Scan# 251

Delta R.T. -0.00 min

Lab File: VU041896.D

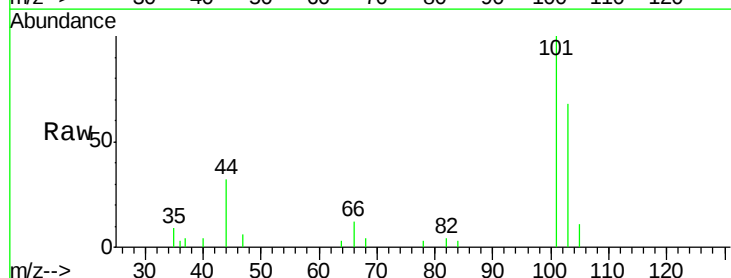
Acq: 08 Jan 2021 11:38

Tgt Ion: 101 Resp: 6041

Ion Ratio Lower Upper

101 100

103 64.2 51.1 76.7



Abundance Ion 101.00 (100.70 to 101.70): VU041892.D (-239) (-)

Ion 103.00 (102.70 to 103.70): VU041892.D (-239) (-)

5000

4000

3000

2000

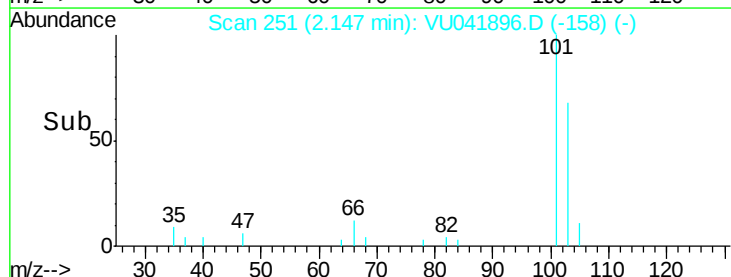
1000

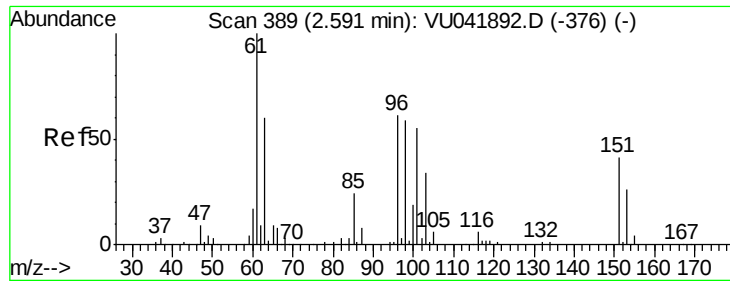
0

2.10 2.15 2.20

2.15

Time-->





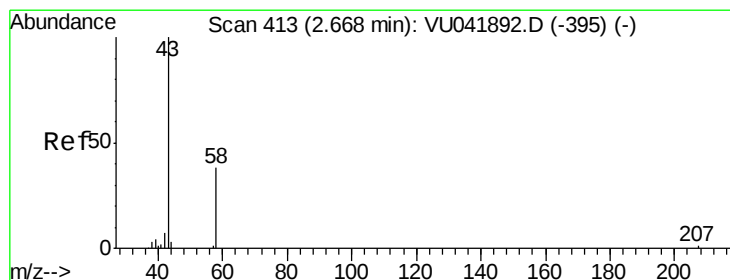
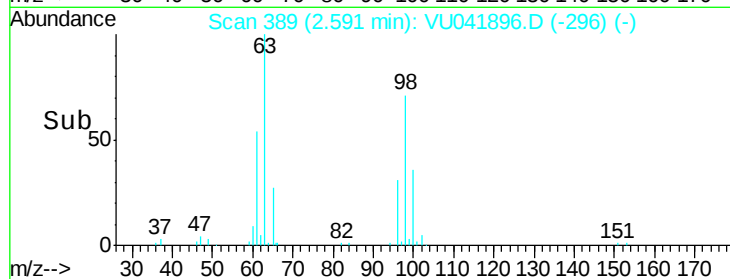
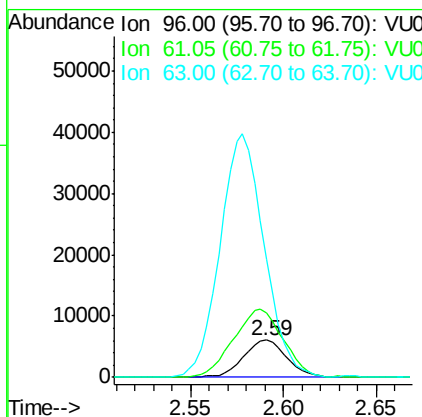
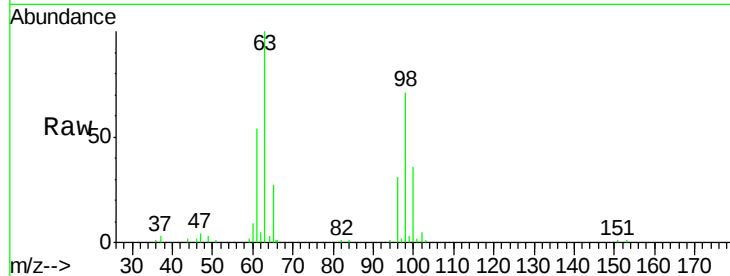
#12
 1,1-Dichloroethene
 Concen: 1.057 ug/L
 RT: 2.59 min Scan# 389
 Delta R.T. -0.00 min
 Lab File: VU041896.D
 Acq: 08 Jan 2021 11:38

Instrument :
 MSVOA_U
 ClientSampled :
 BFXM4

Tgt Ion	Ratio	Lower	Upper
96	100		
61	171.9	123.8	230.0
63	319.9	81.0	150.4

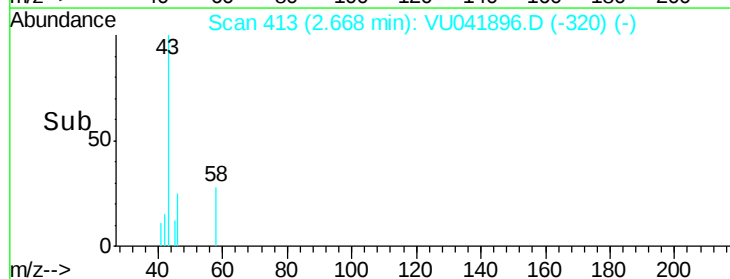
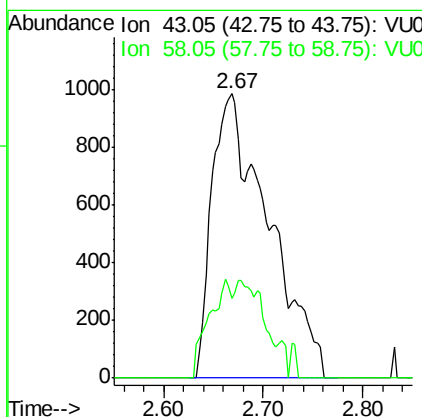
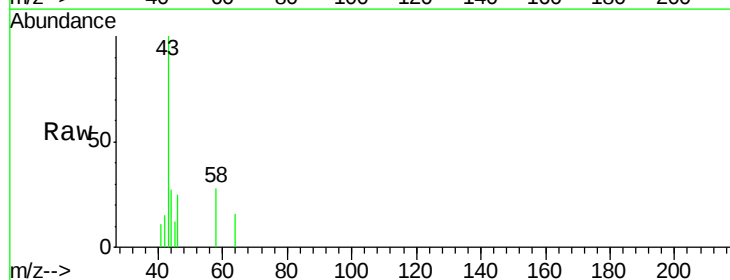
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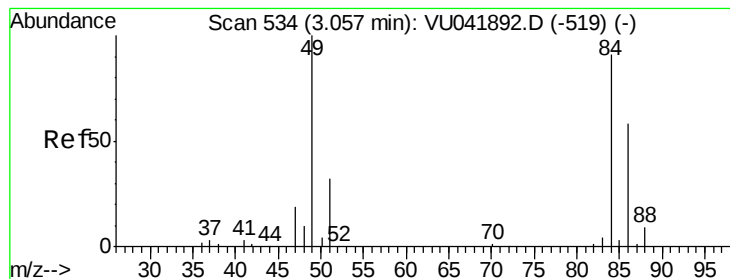
MMDadoda
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#13
 Acetone
 Concen: 1.956 ug/L m
 RT: 2.67 min Scan# 413
 Delta R.T. -0.00 min
 Lab File: VU041896.D
 Acq: 08 Jan 2021 11:38

Tgt Ion	Ratio	Lower	Upper
43	100		
58	17.5	0.0	73.2





#16

Methylene chloride

Concen: 0.111 ug/L

RT: 3.06 min Scan# 535

Delta R.T. 0.00 min

Lab File: VU041896.D

Acq: 08 Jan 2021 11:38

Instrument :

MSVOA_U

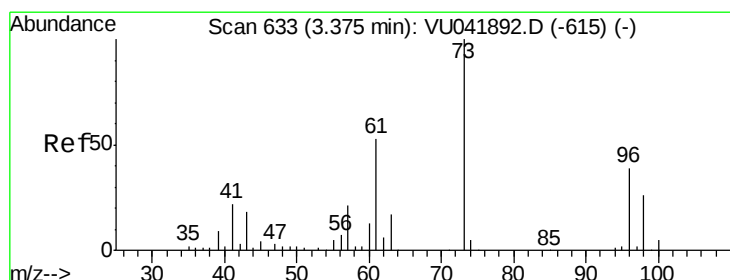
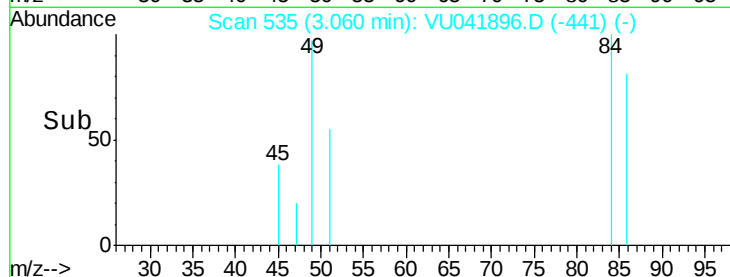
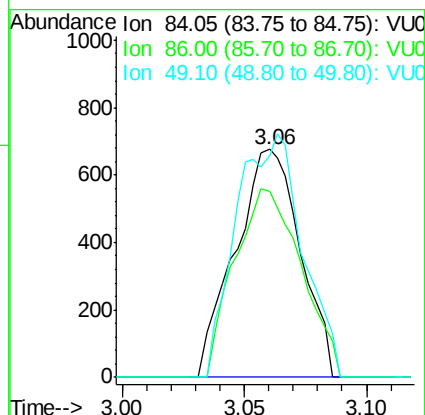
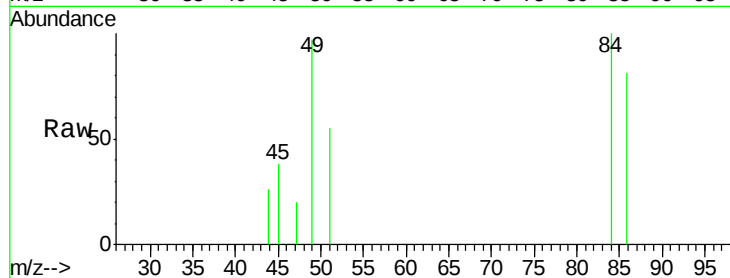
ClientSampled :

BFXM4

Tgt Ion:	84	Resp:	1248
Ion	Ratio	Lower	Upper
84	100		
86	81.4	45.1	83.7
49	97.2	83.1	154.3

Manual Integrations
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#17

Methyl tert-butyl Ether

Concen: 0.254 ug/L

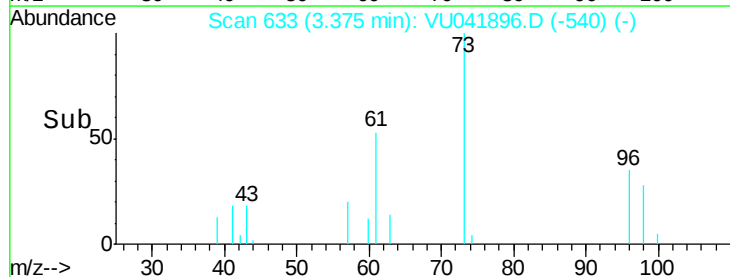
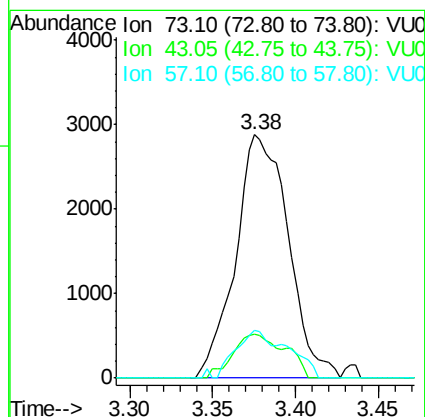
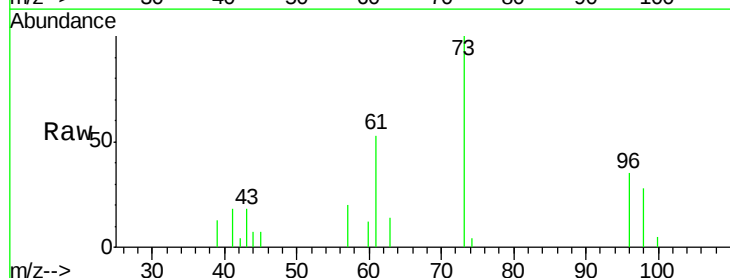
RT: 3.38 min Scan# 633

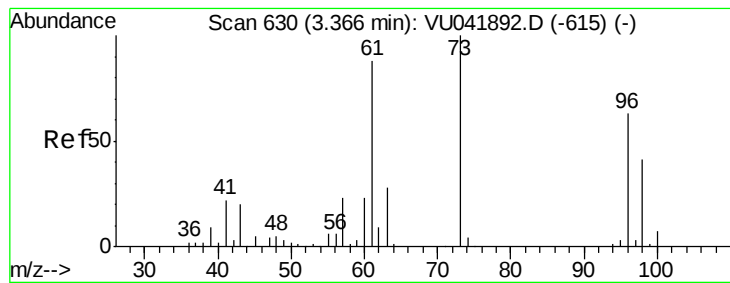
Delta R.T. -0.00 min

Lab File: VU041896.D

Acq: 08 Jan 2021 11:38

Tgt Ion:	73	Resp:	6371
Ion	Ratio	Lower	Upper
73	100		
43	17.9	14.7	22.1
57	19.2	18.2	27.4





#18

trans-1,2-Dichloroethene

Concen: 0.265 ug/L

RT: 3.37 min Scan# 630

Delta R.T. -0.00 min

Lab File: VU041896.D

Acq: 08 Jan 2021 11:38

Instrument :

MSVOA_U

ClientSampled :

BFXM4

Tgt Ion: 96 Resp: 2576

Ion Ratio Lower Upper

96 100

61 150.0 101.8 189.0

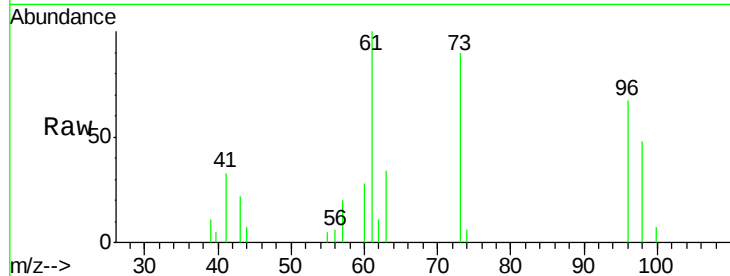
98 71.5 44.4 82.5

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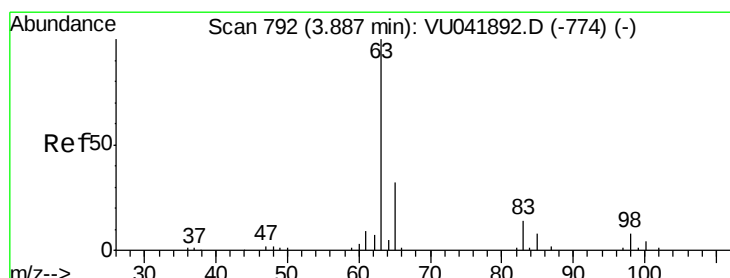
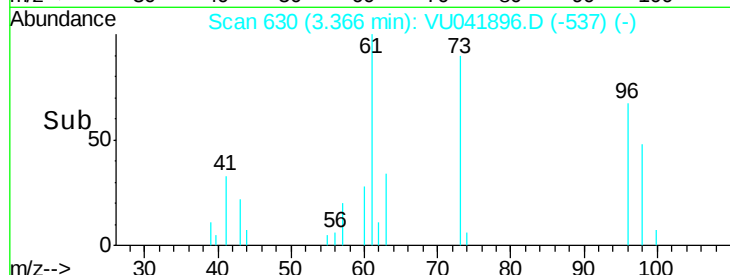
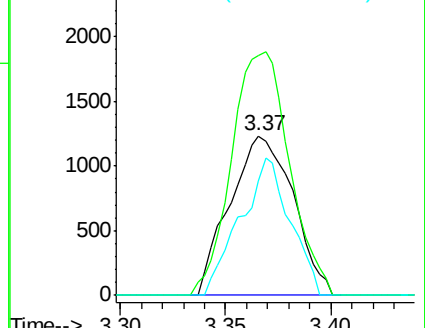
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Abundance Ion 96.00 (95.70 to 96.70): VU041896.D (-537) (-)

Ion 61.05 (60.75 to 61.75): VU041896.D (-537) (-)

Ion 97.95 (97.65 to 98.65): VU041896.D (-537) (-)



#19

1,1-Dichloroethane

Concen: 1.193 ug/L

RT: 3.89 min Scan# 792

Delta R.T. -0.00 min

Lab File: VU041896.D

Acq: 08 Jan 2021 11:38

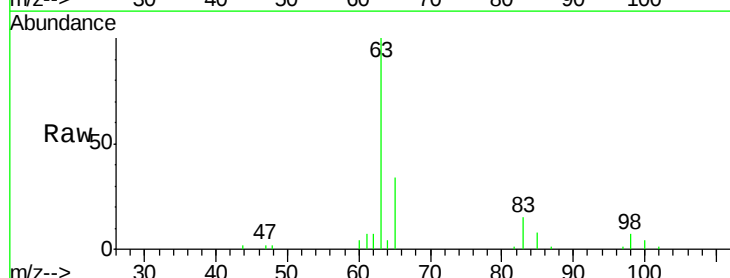
Tgt Ion: 63 Resp: 21673

Ion Ratio Lower Upper

63 100

65 33.6 21.3 39.6

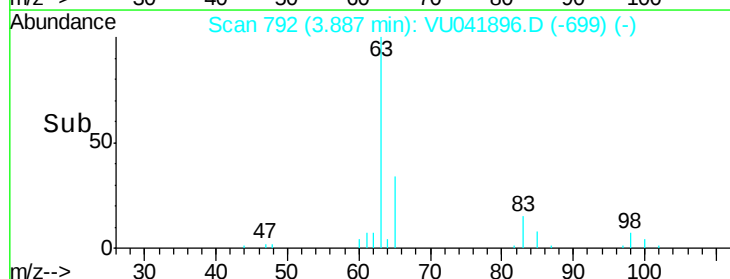
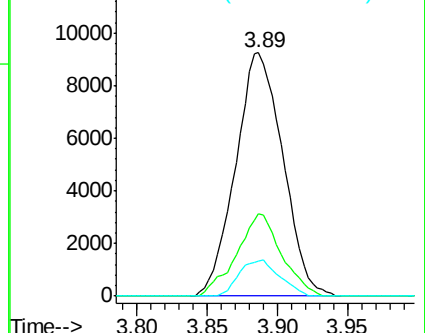
83 14.5 9.3 17.3

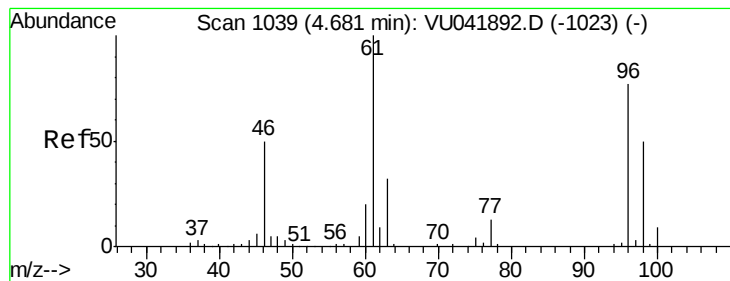


Abundance Ion 63.10 (62.80 to 63.80): VU041896.D (-699) (-)

Ion 65.10 (64.80 to 65.80): VU041896.D (-699) (-)

Ion 83.05 (82.75 to 83.75): VU041896.D (-699) (-)





#22

cis-1,2-Dichloroethene

Concen: 1.732 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.01 min

Lab File: VU041896.D

Acq: 08 Jan 2021 11:38

Instrument :

MSVOA_U

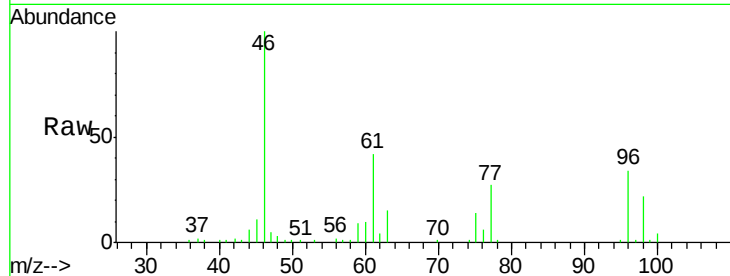
ClientSampled :

BFXM4

Tgt Ion:	96	Resp:	18597
Ion	Ratio	Lower	Upper
96	100		
61	125.3	88.8	165.0
68	0.0	0.0	0.0

Manual Integrations
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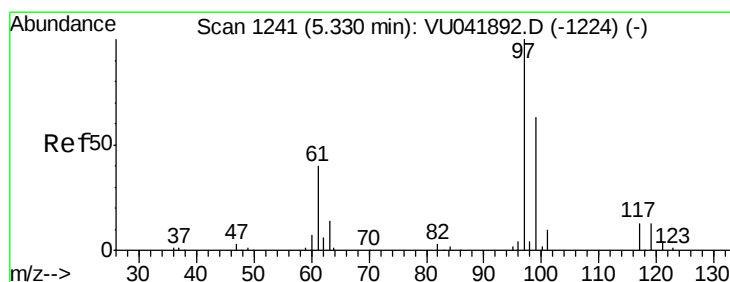
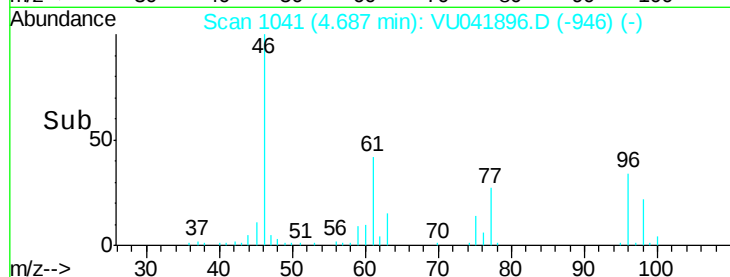
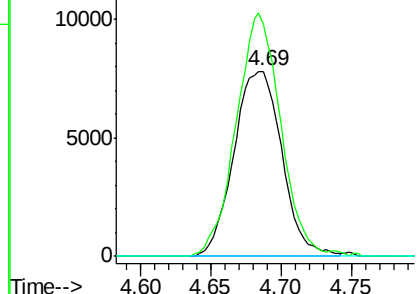
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Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 68.15 (67.85 to 68.85): VU0



#29

1,1,1-Trichloroethane

Concen: 0.209 ug/L

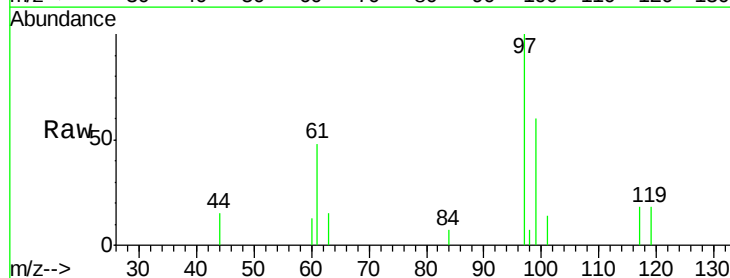
RT: 5.33 min Scan# 1242

Delta R.T. 0.00 min

Lab File: VU041896.D

Acq: 08 Jan 2021 11:38

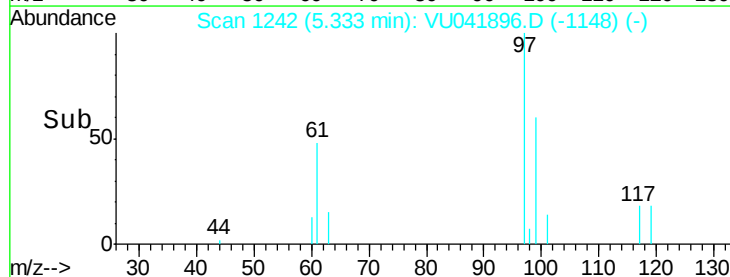
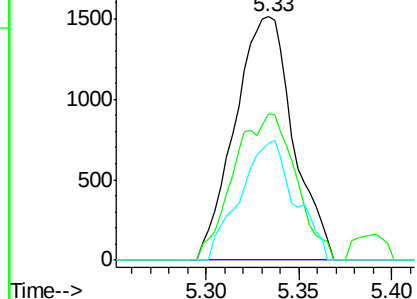
Tgt Ion:	97	Resp:	3324
Ion	Ratio	Lower	Upper
97	100		
99	63.5	51.3	76.9
61	45.8	36.5	54.7

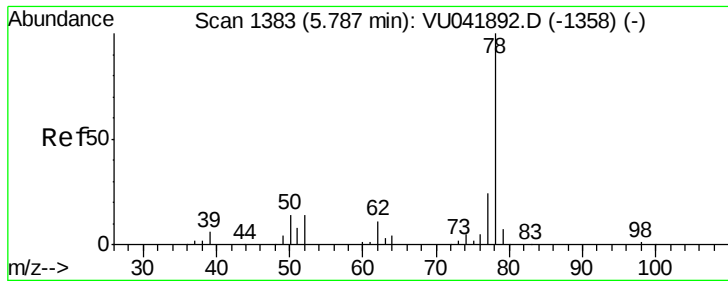


Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 61.05 (60.75 to 61.75): VU0





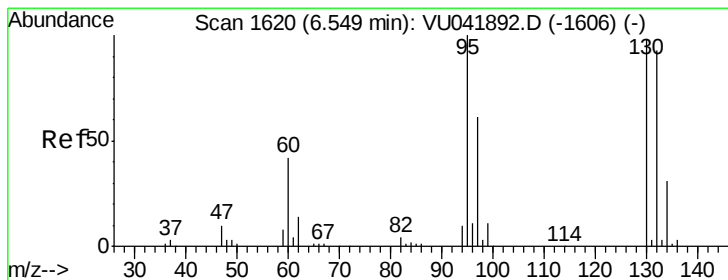
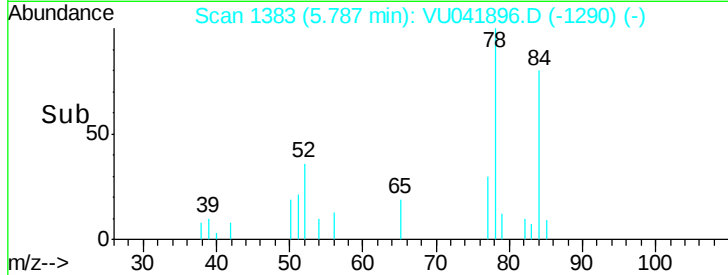
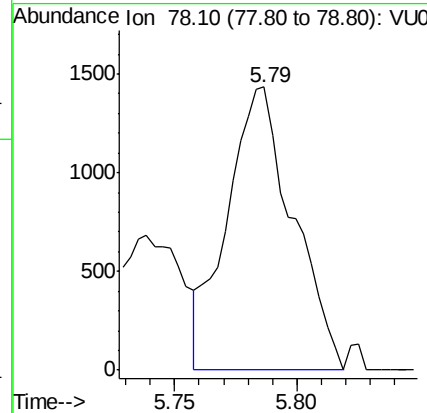
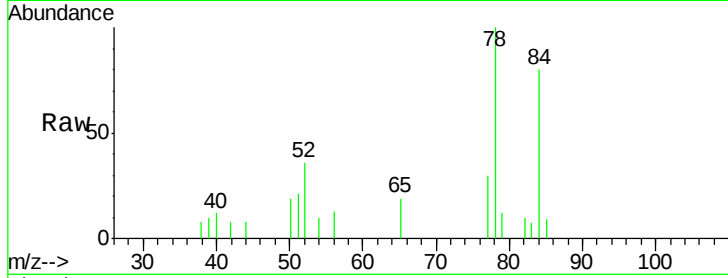
#33
Benzene
Concen: 0.061 ug/L
RT: 5.79 min Scan# 1383
Delta R.T. -0.00 min
Lab File: VU041896.D
Acq: 08 Jan 2021 11:38

Instrument :
MSVOA_U
ClientSampleId :
BFXM4

Tgt Ion: 78 Resp: 2690

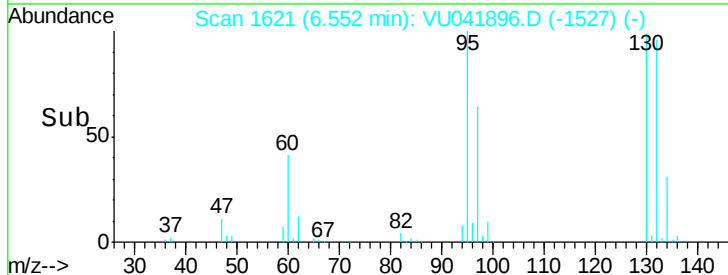
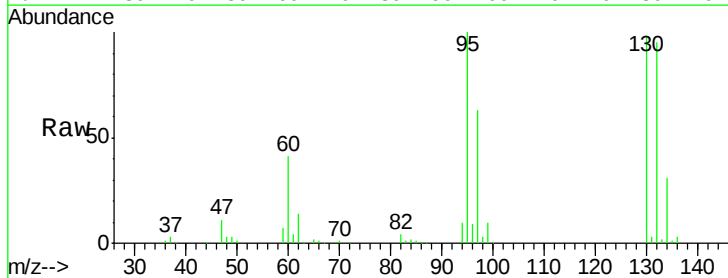
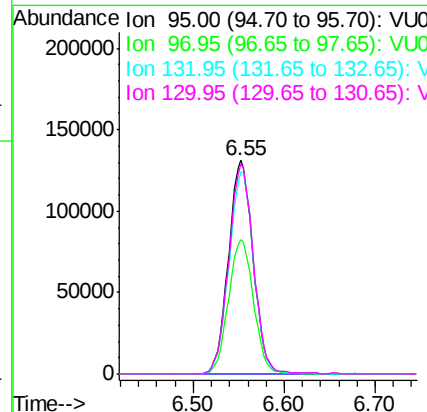
Manual Integrations
APPROVED

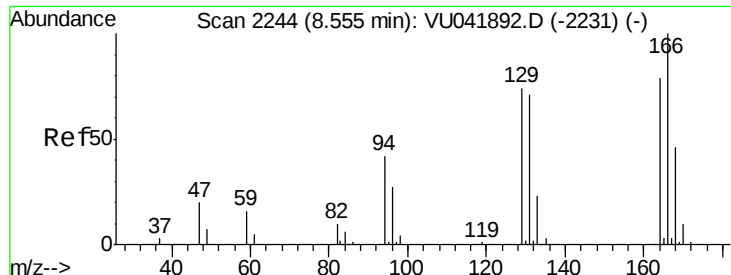
MMDadoda
1/11/2021 1:41:56 PM



#34
Trichloroethene
Concen: 22.191 ug/L
RT: 6.55 min Scan# 1621
Delta R.T. 0.00 min
Lab File: VU041896.D
Acq: 08 Jan 2021 11:38

Tgt Ion: 95 Resp: 246715
Ion Ratio Lower Upper
95 100
97 62.9 43.9 81.5
132 94.9 63.1 117.3
130 98.5 67.4 125.2





#47

Tetrachloroethene

Concen: 49.180 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.00 min

Lab File: VU041896.D

Acq: 08 Jan 2021 11:38

Instrument :

MSVOA_U

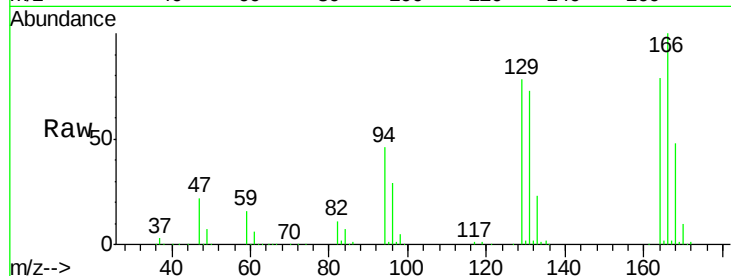
ClientSampled :

BFXM4

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	382764		
129	98.5	72.2	134.0	
131	92.6	66.9	124.3	
166	126.4	89.6	166.4	

Manual Integrations
APPROVED

MMDadoda
1/11/2021 1:41:56 PM

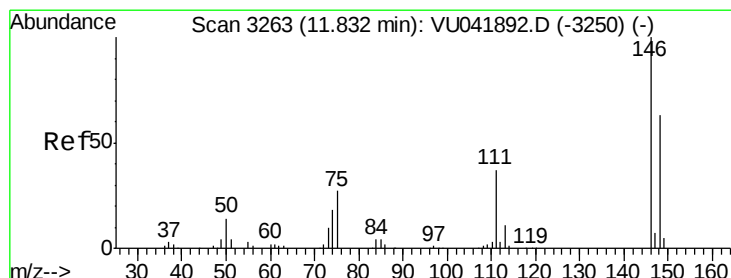
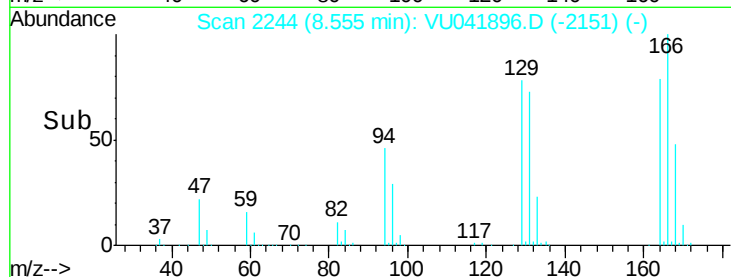
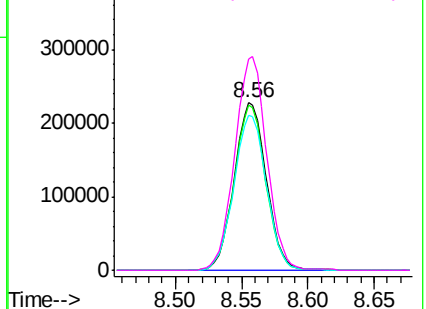


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#63

1,4-Dichlorobenzene

Concen: 3.389 ug/L

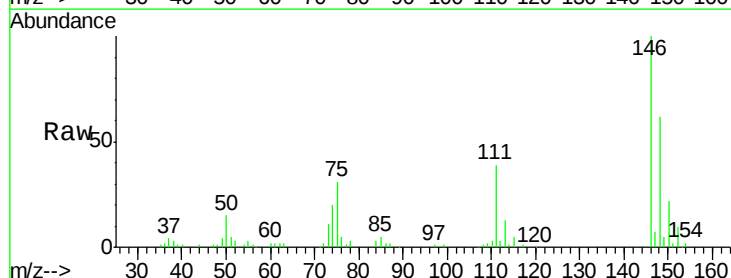
RT: 11.83 min Scan# 3263

Delta R.T. -0.00 min

Lab File: VU041896.D

Acq: 08 Jan 2021 11:38

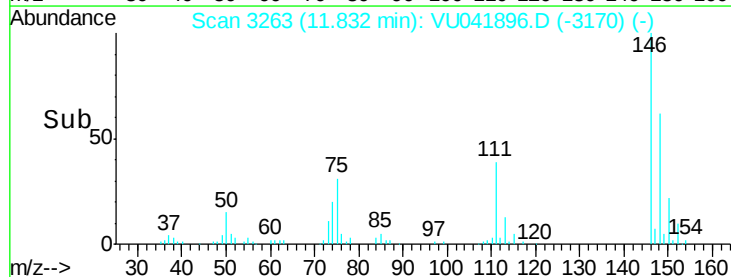
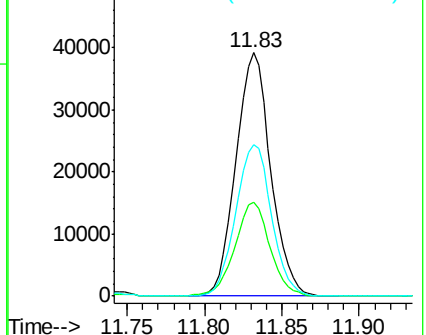
Tgt Ion	Ratio	Resp	Lower	Upper
146	100	61124		
111	38.7	27.9	51.9	
148	62.1	45.0	83.6	

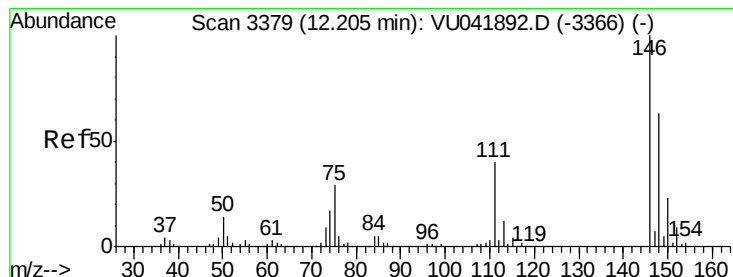


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 2.543 ug/L

RT: 12.20 min Scan# 3379

Delta R.T. -0.00 min

Lab File: VU041896.D

Acq: 08 Jan 2021 11:38

Instrument :

MSVOA_U

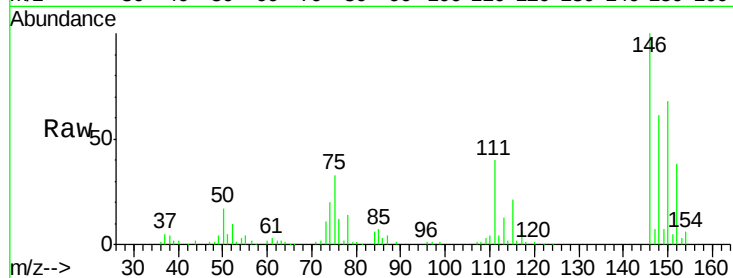
ClientSampleId :

BFXM4

Tgt Ion:	146	Resp:	44666
Ion Ratio	Lower	Upper	
146	100		
111	39.6	35.0	52.6
148	61.2	51.0	76.6

Manual Integrations
APPROVED

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1/11/2021 1:41:56 PM



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

