

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU070620\
 Data File : VU039295.D
 Acq On : 06 Jul 2020 16:47
 Operator : SY/MD
 Sample : L3193-05
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 H4285

Quant Time: Jul 07 01:20:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR070620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Jul 07 01:17:04 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.27	114	119829	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	113696	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	51740	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	44287	4.81	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	96.20%
7) Chloroethane-d5	1.93	69	37288	4.23	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	84.60%
11) 1,1-Dichloroethene-d2	2.58	63	62919	3.67	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	73.40%
20) 2-Butanone-d5	4.66	46	175172	50.43	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	100.86%
24) Chloroform-d	5.09	84	78223	4.43	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.60%
26) 1,2-Dichloroethane-d4	5.72	65	49282	4.51	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.20%
32) Benzene-d6	5.74	84	162838	4.66	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.20%
36) 1,2-Dichloropropane-d6	6.71	67	52456	4.51	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.20%
41) Toluene-d8	7.91	98	147842	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.00%
43) trans-1,3-Dichloropropene-	8.19	79	21808	4.06	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	81.20%
46) 2-Hexanone-d5	8.64	63	133741	47.20	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	94.40%
57) 1,1,2,2-Tetrachloroethane-	10.76	84	48909	4.41	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	88.20%
64) 1,2-Dichlorobenzene-d4	12.19	152	55134	4.72	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	94.40%

Target Compounds

					Ovalue
5) Vinyl chloride	1.61	62	47884	5.364	ug/L 99
8) Chloroethane	1.95	64	1635	0.268	ug/L # 56
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	892	0.131	ug/L # 33
12) 1,1-Dichloroethene	2.60	96	3347	0.493	ug/L # 1
16) Methylene chloride	3.06	84	924	0.107	ug/L # 86
17) Methyl tert-butyl Ether	3.38	73	463100	20.739	ug/L 99
18) trans-1,2-Dichloroethene	3.37	96	22142	3.000	ug/L 96
19) 1,1-Dichloroethane	3.89	63	19954	1.350	ug/L 97
22) cis-1,2-Dichloroethene	4.69	96	599305	71.267	ug/L 100
33) Benzene	5.79	78	12984	0.405	ug/L 100
34) Trichloroethene	6.56	95	1110028	134.353	ug/L 93
35) Methylcyclohexane	6.70	83	11788	0.891	ug/L # 18
37) 1,2-Dichloropropane	6.70	63	6191	0.693	ug/L # 90
39) cis-1,3-Dichloropropene	7.57	75	1716	0.123	ug/L # 81
47) Tetrachloroethene	8.56	164	25129	4.328	ug/L 95
49) Dibromochloromethane	8.56	129	24721	2.961	ug/L # 12
59) 1,2,3-Trichloropropane	11.81	75	8121	1.209	ug/L 94

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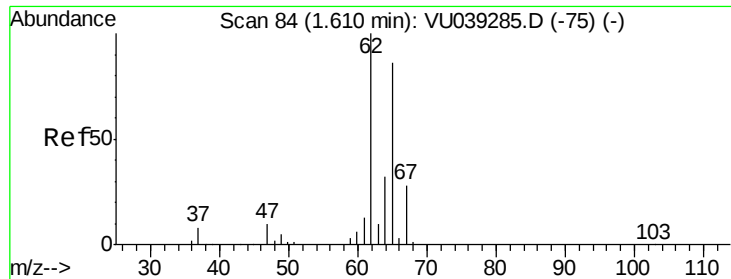
Instrument :
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Response via : Initial Calibration

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

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#5

Vinyl chloride

Concen: 5.364 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU039295.D

Acq: 06 Jul 2020 16:47

Instrument :

MSVOA_U

ClientSampleID :

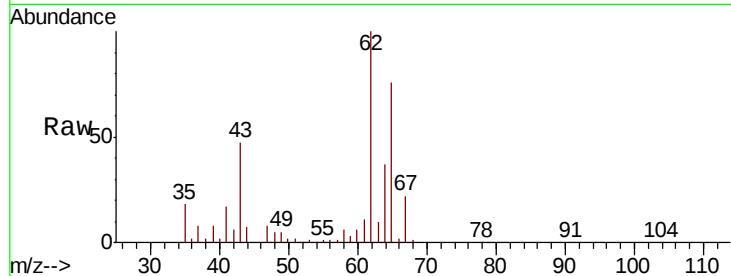
H4285

Tot Ion: 62 Resp: 47884

Ion Ratio Lower Upper

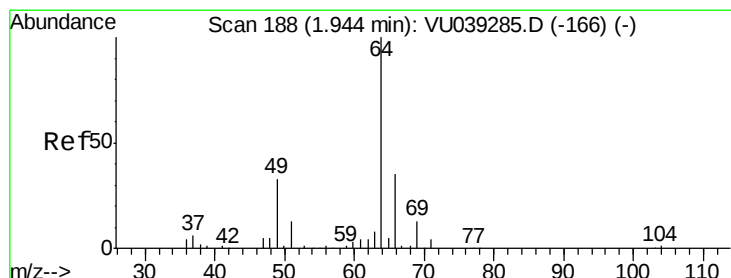
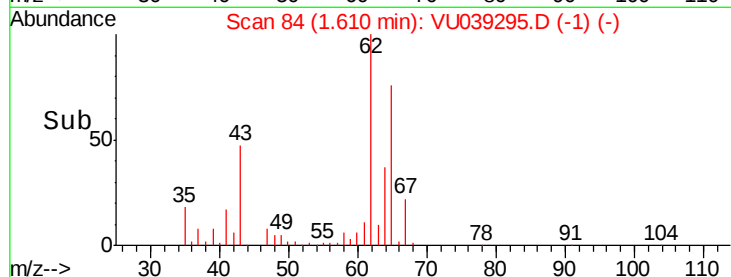
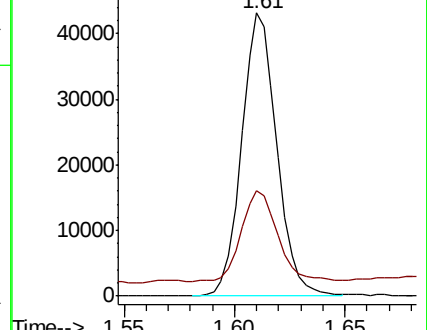
62 100

64 37.2 25.6 47.4



Abundance Ion 62.00 (61.70 to 62.70): VU039295.D (-75) (-)

Ion 64.10 (63.80 to 64.80): VU039295.D (-75) (-)



#8

Chloroethane

Concen: 0.268 ug/L

RT: 1.95 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU039295.D

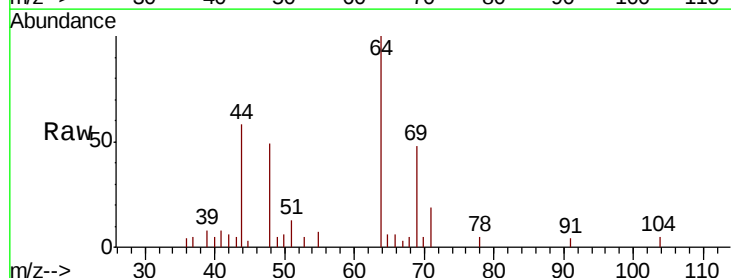
Acq: 06 Jul 2020 16:47

Tgt Ion: 64 Resp: 1635

Ion Ratio Lower Upper

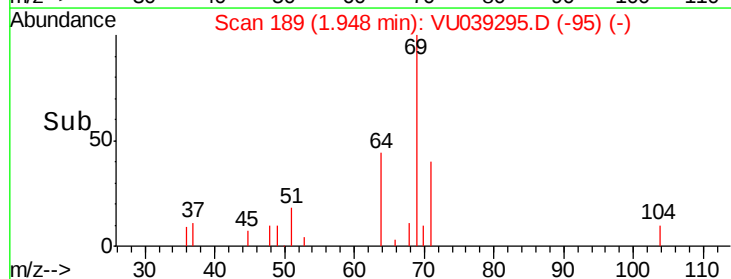
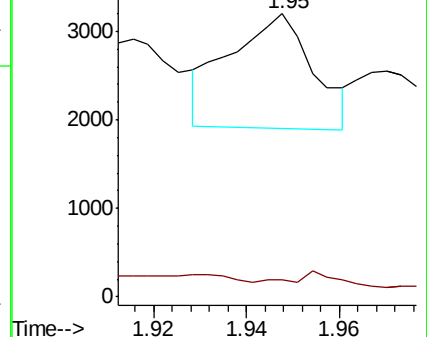
64 100

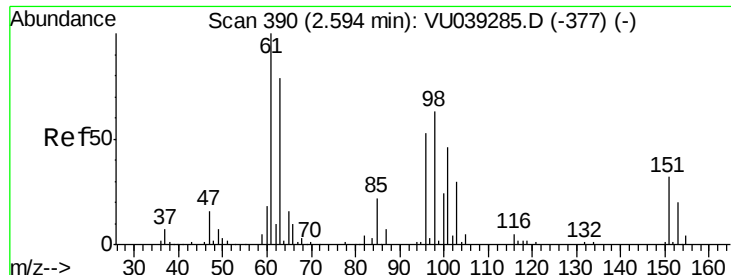
66 5.9 20.7 38.5#



Abundance Ion 64.10 (63.80 to 64.80): VU039295.D (-166) (-)

Ion 66.05 (65.75 to 66.75): VU039295.D (-166) (-)





#10

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

Concen: 0.131 ug/L

RT: 2.58 min Scan# 386

Delta R.T. -0.01 min

Lab File: VU039295.D

Acq: 06 Jul 2020 16:47

Instrument :

MSVOA_U

ClientSampleId :

H4285

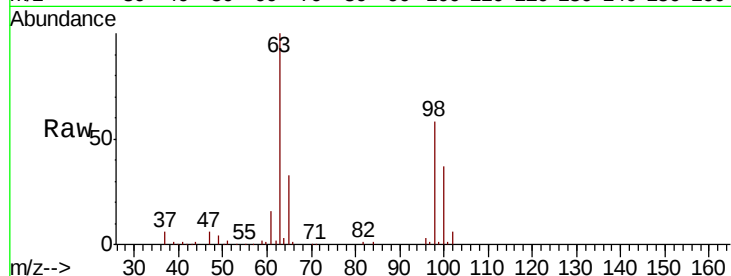
Tot Ion:101 Resp: 892

Ion Ratio Lower Upper

101 100

85 17.9 38.4 57.6#

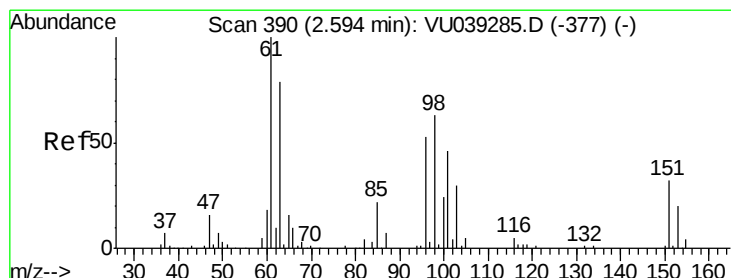
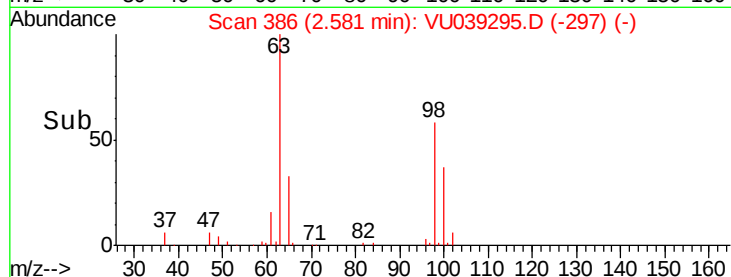
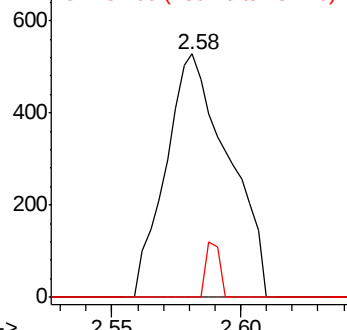
151 4.9 58.3 87.5#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.493 ug/L

RT: 2.60 min Scan# 391

Delta R.T. 0.00 min

Lab File: VU039295.D

Acq: 06 Jul 2020 16:47

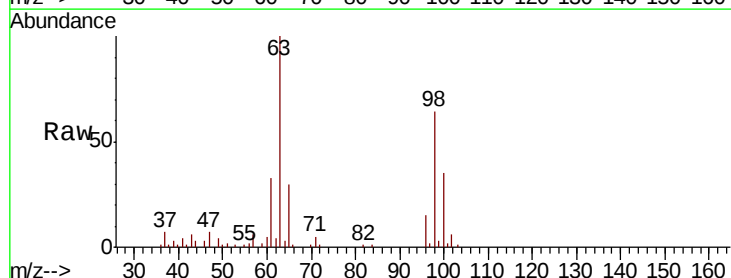
Tgt Ion: 96 Resp: 3347

Ion Ratio Lower Upper

96 100

61 219.6 123.8 230.0

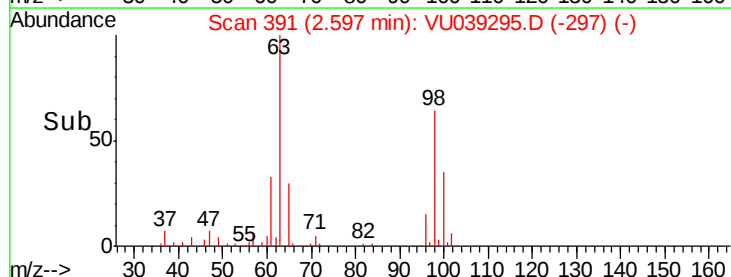
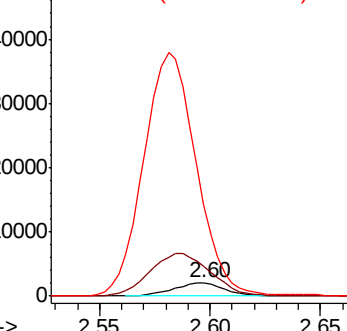
63 671.5 112.1 208.3#

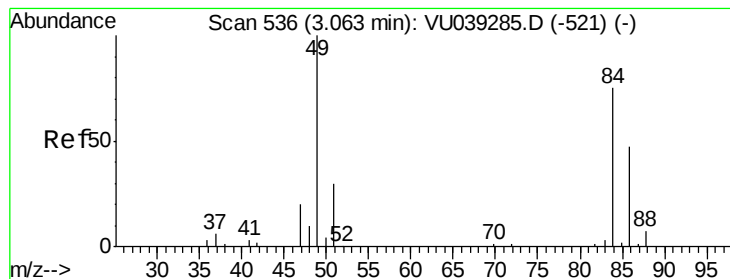


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#16

Methylene chloride

Concen: 0.107 ug/L

RT: 3.06 min Scan# 536

Delta R.T. 0.00 min

Lab File: VU039295.D

Acq: 06 Jul 2020 16:47

Instrument :

MSVOA_U

ClientSampled :

H4285

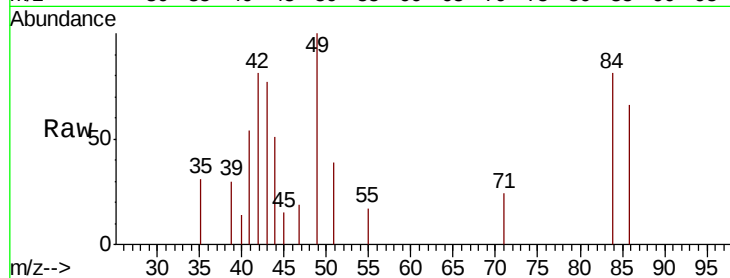
Tot Ion: 84 Resp: 924

Ion Ratio Lower Upper

84 100

86 81.5 42.6 79.0#

49 123.1 93.0 172.8



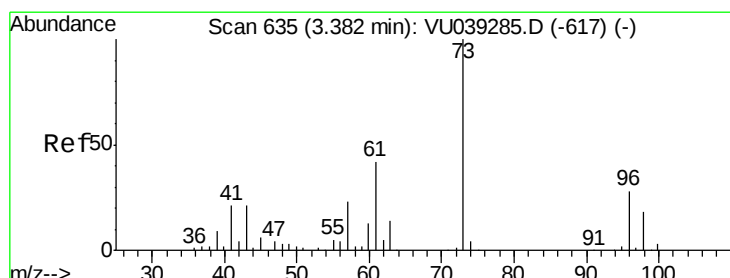
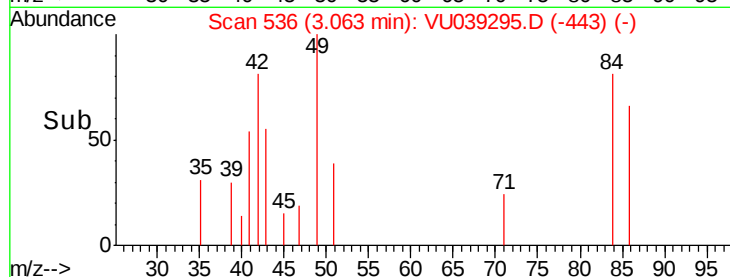
Abundance Ion 84.05 (83.75 to 84.75): VU039295.D (-521) (-)

Ion 86.00 (85.70 to 86.70): VU039295.D (-521) (-)

Ion 49.10 (48.80 to 49.80): VU039295.D (-521) (-)

3.06

Time-->



#17

Methyl tert-butyl Ether

Concen: 20.739 ug/L

RT: 3.38 min Scan# 636

Delta R.T. 0.00 min

Lab File: VU039295.D

Acq: 06 Jul 2020 16:47

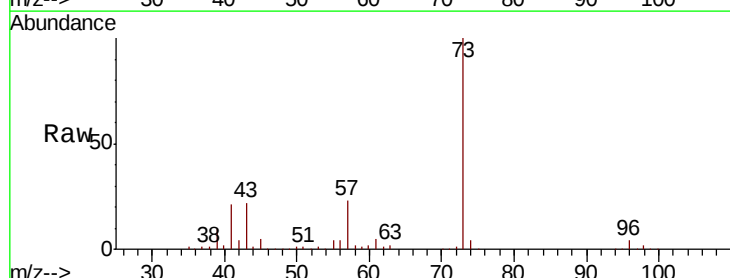
Tgt Ion: 73 Resp: 463100

Ion Ratio Lower Upper

73 100

43 21.9 17.5 26.3

57 22.6 18.6 27.8



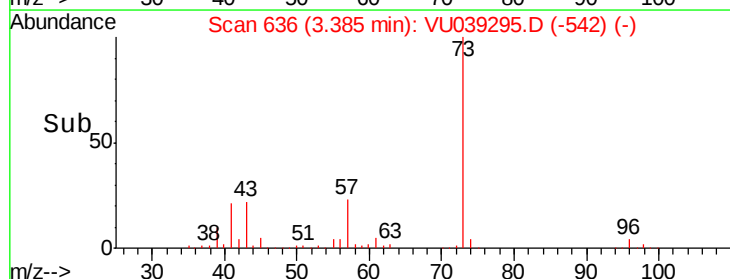
Abundance Ion 73.10 (72.80 to 73.80): VU039295.D (-617) (-)

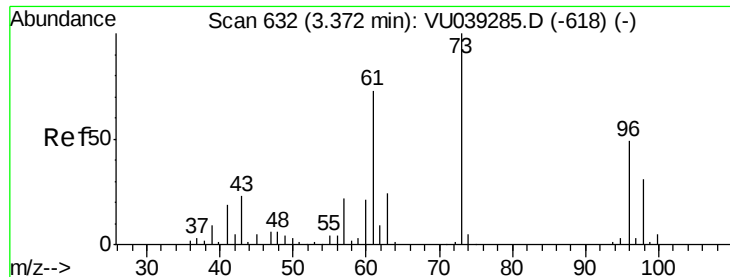
Ion 43.05 (42.75 to 43.75): VU039295.D (-617) (-)

Ion 57.10 (56.80 to 57.80): VU039295.D (-617) (-)

3.38

Time-->





#18

trans-1,2-Dichloroethene

Concen: 3.000 ug/L

RT: 3.37 min Scan# 632

Delta R.T. 0.00 min

Lab File: VU039295.D

Acq: 06 Jul 2020 16:47

Instrument :

MSVOA_U

ClientSampleId :

H4285

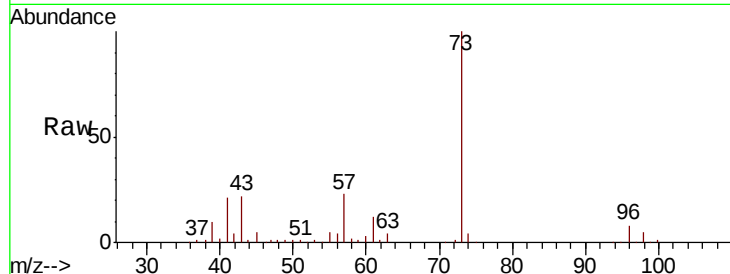
Tot Ion: 96 Resp: 22142

Ion Ratio Lower Upper

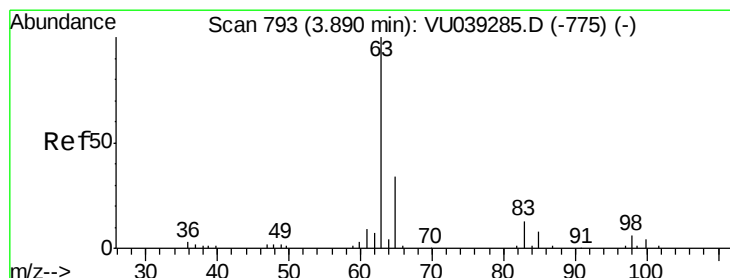
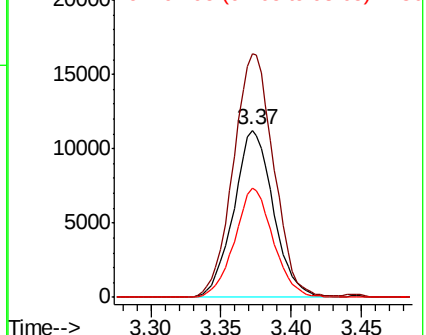
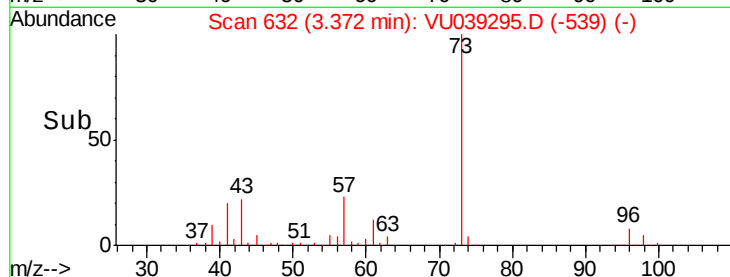
96 100

61 145.4 104.7 194.5

98 65.3 43.1 80.1



Abundance Ion 96.00 (95.70 to 96.70): VU039295.D (-539) (-)



#19

1,1-Dichloroethane

Concen: 1.350 ug/L

RT: 3.89 min Scan# 794

Delta R.T. 0.00 min

Lab File: VU039295.D

Acq: 06 Jul 2020 16:47

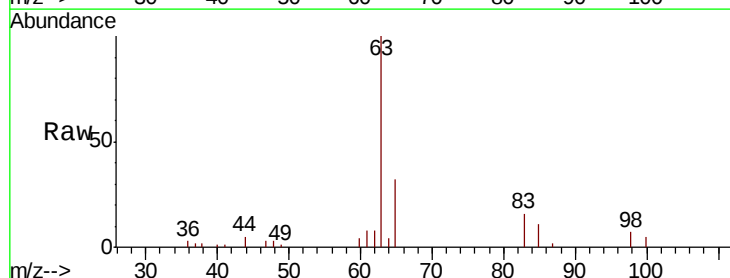
Tgt Ion: 63 Resp: 19954

Ion Ratio Lower Upper

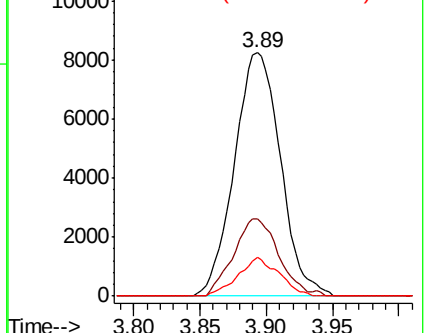
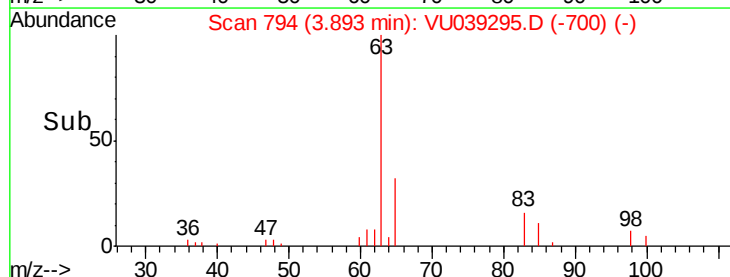
63 100

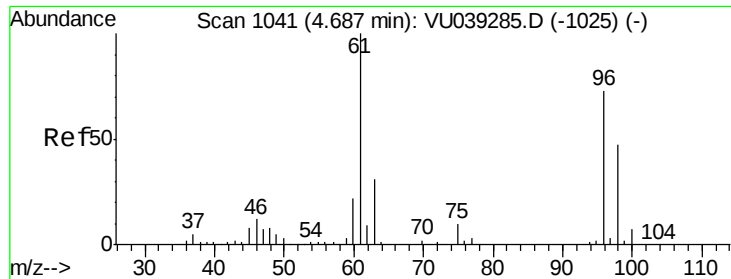
65 31.9 22.7 42.3

83 15.8 9.1 16.9



Abundance Ion 63.10 (62.80 to 63.80): VU039295.D (-700) (-)





#22

cis-1,2-Dichloroethene

Concen: 71.267 ug/L

RT: 4.69 min Scan# 1042

Delta R.T. 0.00 min

Lab File: VU039295.D

Acq: 06 Jul 2020 16:47

Instrument :

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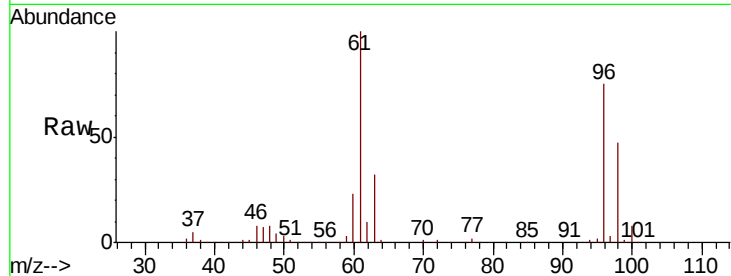
Tot Ion: 96 Resp: 599305

Ion Ratio Lower Upper

96 100

61 133.5 93.7 173.9

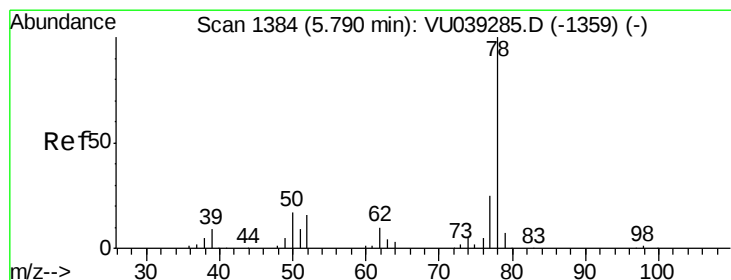
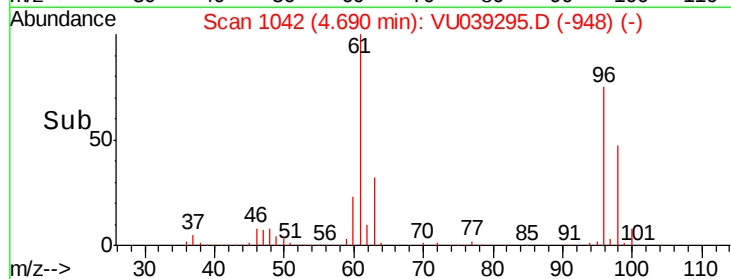
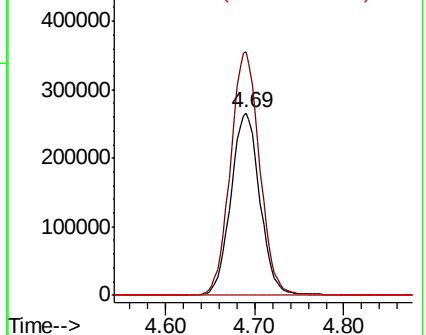
68 0.0 0.0 0.0



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



#33

Benzene

Concen: 0.405 ug/L

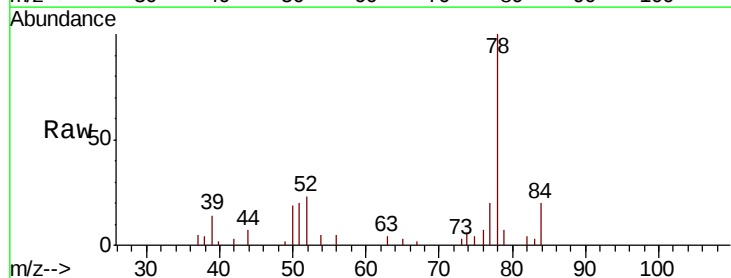
RT: 5.79 min Scan# 1384

Delta R.T. 0.00 min

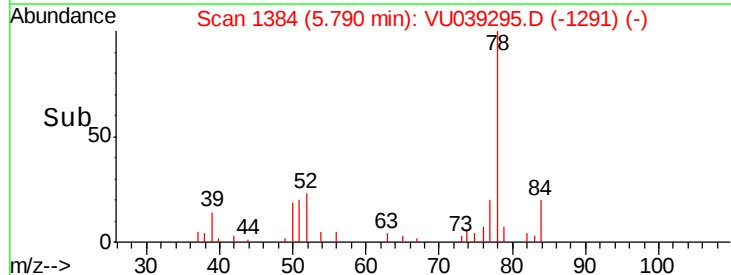
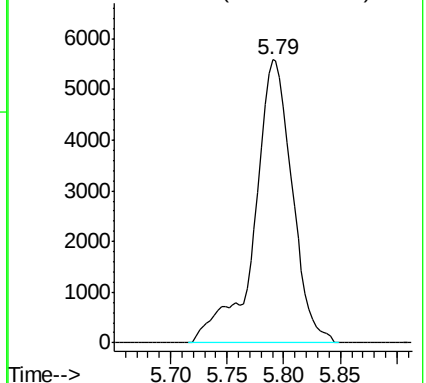
Lab File: VU039295.D

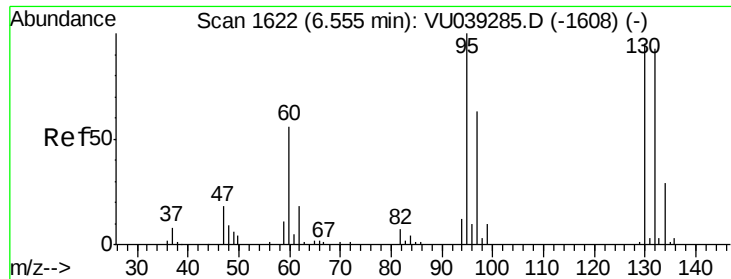
Acq: 06 Jul 2020 16:47

Tgt Ion: 78 Resp: 12984



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 134.353 ug/L

RT: 6.56 min Scan# 1623

Delta R.T. 0.00 min

Lab File: VU039295.D

Acq: 06 Jul 2020 16:47

Instrument :

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ClientSampleId :

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Tot Ion: 95 Resp: 1110028

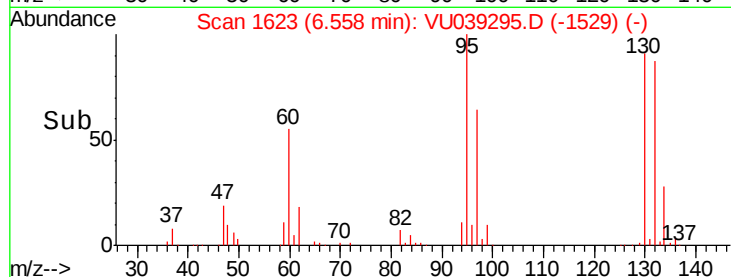
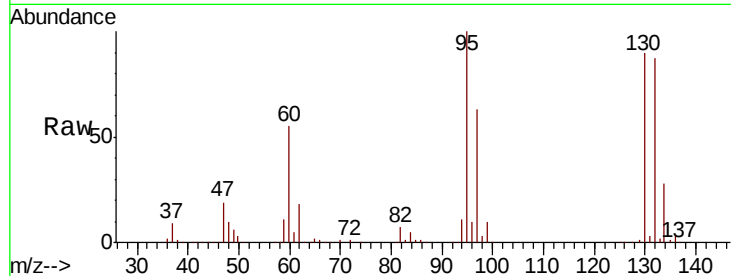
Ion Ratio Lower Upper

95 100

97 63.5 47.0 87.2

132 86.6 65.0 120.8

130 90.5 69.8 129.6

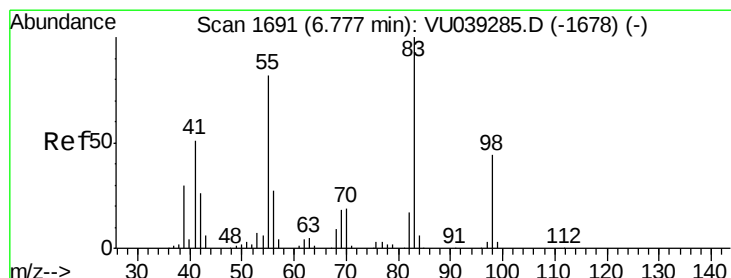
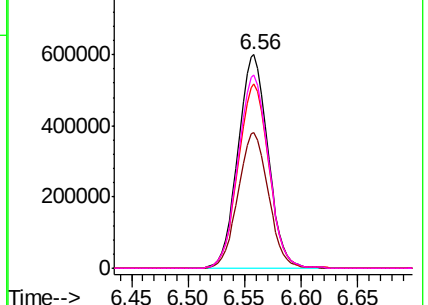


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 0.891 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.07 min

Lab File: VU039295.D

Acq: 06 Jul 2020 16:47

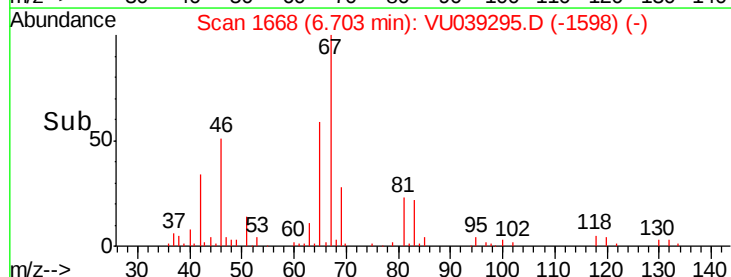
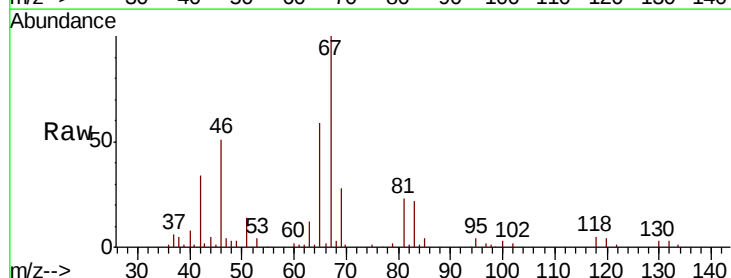
Tgt Ion: 83 Resp: 11788

Ion Ratio Lower Upper

83 100

55 0.7 63.3 94.9#

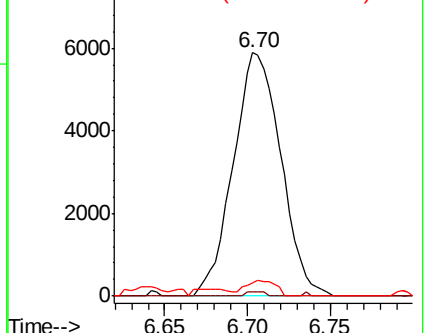
98 0.0 37.4 56.2#

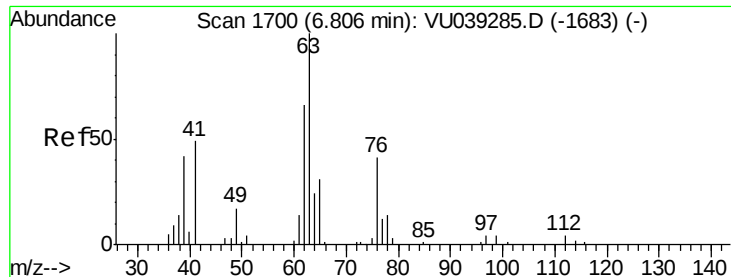


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 0.693 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.10 min

Lab File: VU039295.D

Acq: 06 Jul 2020 16:47

Instrument :

MSVOA_U

ClientSampled :

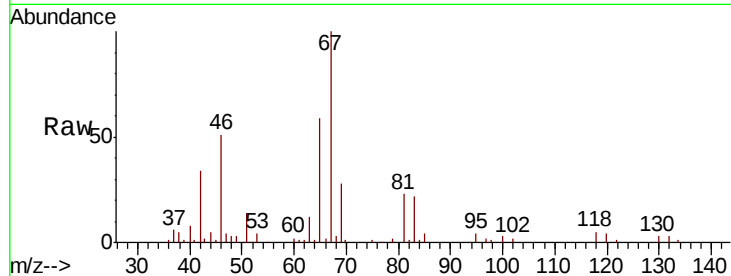
H4285

Tot Ion: 63 Resp: 6191

Ion Ratio Lower Upper

63 100

112 0.0 2.6 3.8#



Abundance Ion 63.10 (62.80 to 63.80): VU039285.D (-1683) (-)

Ion 112.10 (111.80 to 112.80): VU039285.D (-1683) (-)

6.70

3000

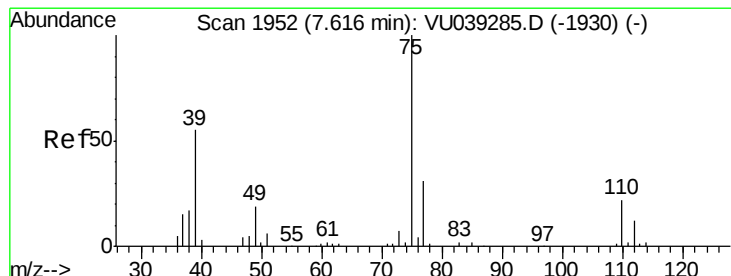
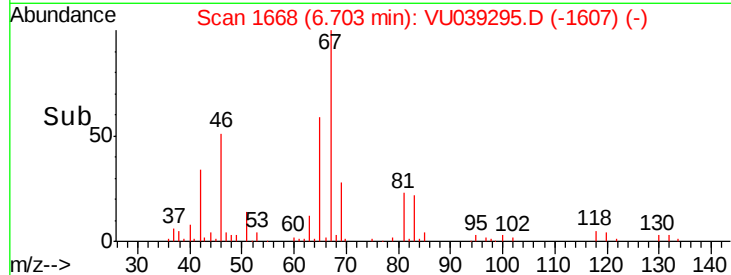
2000

1000

0

6.65 6.70 6.75

Time-->



#39

cis-1,3-Dichloropropene

Concen: 0.123 ug/L

RT: 7.57 min Scan# 1938

Delta R.T. -0.04 min

Lab File: VU039295.D

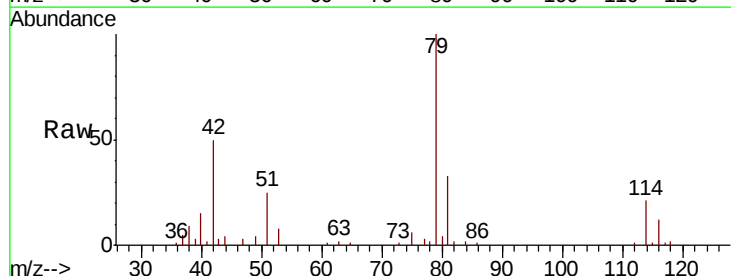
Acq: 06 Jul 2020 16:47

Tgt Ion: 75 Resp: 1716

Ion Ratio Lower Upper

75 100

77 44.2 23.3 43.3#



Abundance Ion 75.05 (74.75 to 75.75): VU039285.D (-1930) (-)

Ion 77.05 (76.75 to 77.75): VU039285.D (-1930) (-)

7.57

1200

1000

800

600

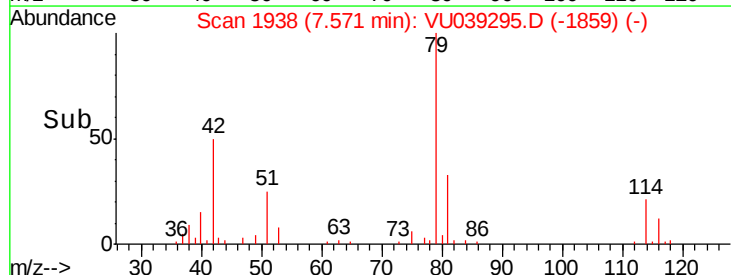
400

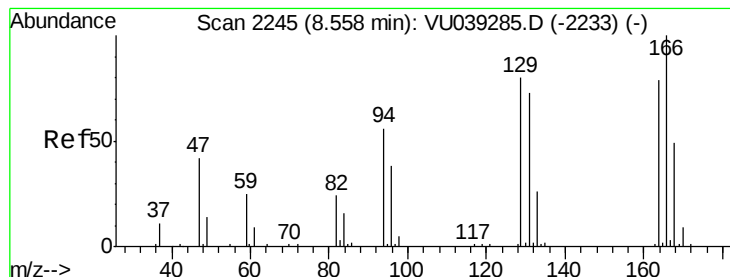
200

0

7.55 7.60

Time-->





#47

Tetrachloroethene

Concen: 4.328 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU039295.D

Acq: 06 Jul 2020 16:47

Instrument :

MSVOA_U

ClientSampleId :

H4285

Tot Ion:164 Resp: 25129

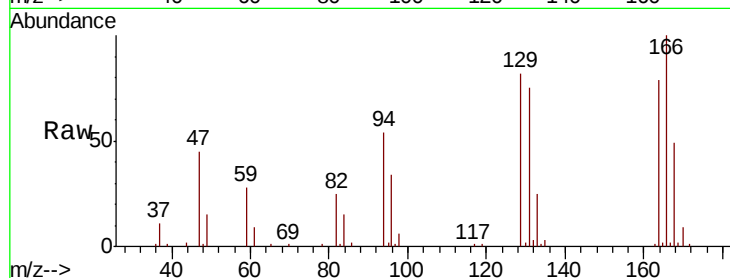
Ion Ratio Lower Upper

164 100

129 103.4 70.5 130.9

131 94.8 68.7 127.5

166 126.8 94.9 176.3



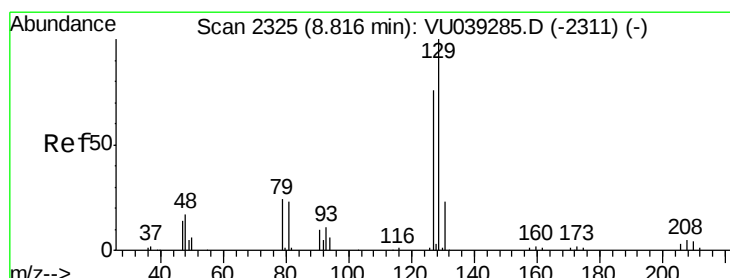
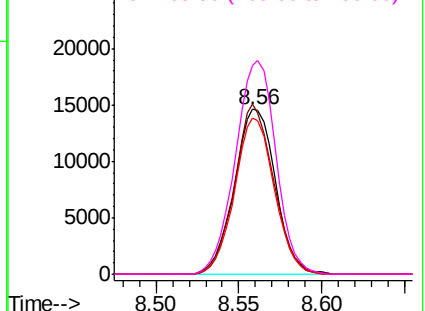
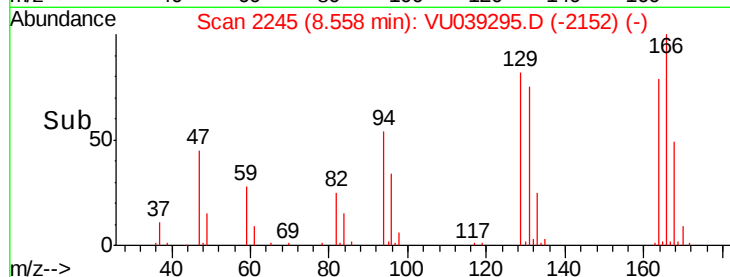
Abundance

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



#49

Dibromochloromethane

Concen: 2.961 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.26 min

Lab File: VU039295.D

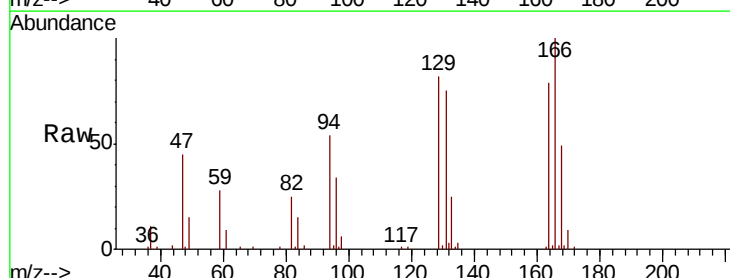
Acq: 06 Jul 2020 16:47

Tgt Ion:129 Resp: 24721

Ion Ratio Lower Upper

129 100

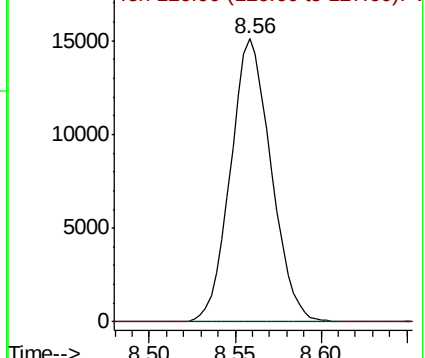
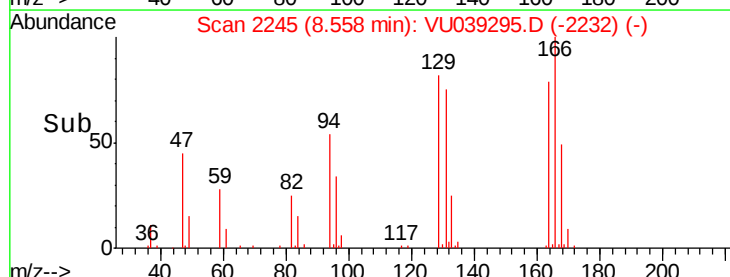
127 0.0 52.6 97.8#

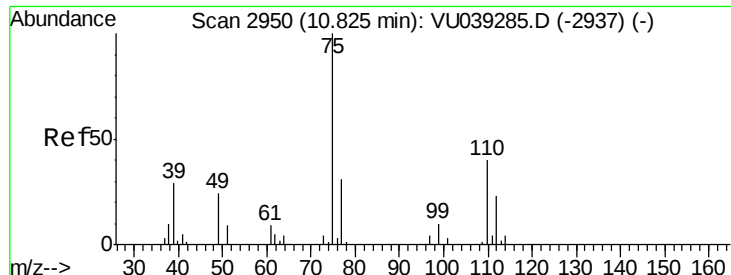


Abundance

Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V





#59

1,2,3-Trichloropropane

Concen: 1.209 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.98 min

Lab File: VU039295.D

Acq: 06 Jul 2020 16:47

Instrument :

MSVOA_U

ClientSampleId :

H4285

Tot Ion: 75 Resp: 8121

Ion Ratio Lower Upper

75 100

77 38.0 27.7 41.5

