

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U103020\
 Data File : VU041020.D
 Acq On : 29 Oct 2020 17:54
 Operator : SY/MD
 Sample : L4558-02
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0BP5

Quant Time: Oct 30 08:14:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Oct 30 08:06:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	54227	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	54804	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	23091	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	15737	3.45	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	69.00%
7) Chloroethane-d5	1.92	69	13426	3.84	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	76.80%
11) 1,1-Dichloroethene-d2	2.58	63	27181	3.04	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	60.80%
20) 2-Butanone-d5	4.66	46	82790	55.19	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	110.38%
24) Chloroform-d	5.08	84	34766	4.32	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.40%
26) 1,2-Dichloroethane-d4	5.72	65	22954	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.00%
32) Benzene-d6	5.74	84	60080	4.10	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.00%
36) 1,2-Dichloropropane-d6	6.70	67	22942	4.81	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.20%
41) Toluene-d8	7.91	98	48169	3.63	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	72.60%
43) trans-1,3-Dichloropropene-	8.19	79	8936	4.32	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.40%
46) 2-Hexanone-d5	8.64	63	56529	50.76	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	101.52%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	20739	4.68	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	93.60%
64) 1,2-Dichlorobenzene-d4	12.19	152	19285	4.76	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.20%

Target Compounds

					Ovalue
3) Chloromethane	1.53	50	280	0.054 ug/L	85
8) Chloroethane	1.95	64	145	0.045 ug/L #	43
9) Trichlorofluoromethane	2.15	101	29679	4.288 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	227	0.056 ug/L #	22
12) 1,1-Dichloroethene	2.59	96	4587	1.198 ug/L #	1
13) Acetone	2.68	43	843	0.822 ug/L	93
15) Methyl Acetate	2.98	43	278	0.118 ug/L #	53
19) 1,1-Dichloroethane	3.88	63	1076	0.138 ug/L #	83
22) cis-1,2-Dichloroethene	4.69	96	4554	1.134 ug/L	85
25) Chloroform	5.10	83	1451	0.186 ug/L	82
27) 1,2-Dichloroethane	5.81	62	4706	0.810 ug/L	99
29) 1,1,1-Trichloroethane	5.34	97	863	0.129 ug/L #	68
31) Carbon tetrachloride	5.54	117	710	0.120 ug/L	89
33) Benzene	5.79	78	1000	0.061 ug/L	100
34) Trichloroethene	6.56	95	367228	88.119 ug/L	98
35) Methylcyclohexane	6.70	83	5213	0.839 ug/L #	13
37) 1,2-Dichloropropane	6.71	63	2676	0.604 ug/L #	86

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Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Oct 30 08:06:28 2020
Response via : Initial Calibration

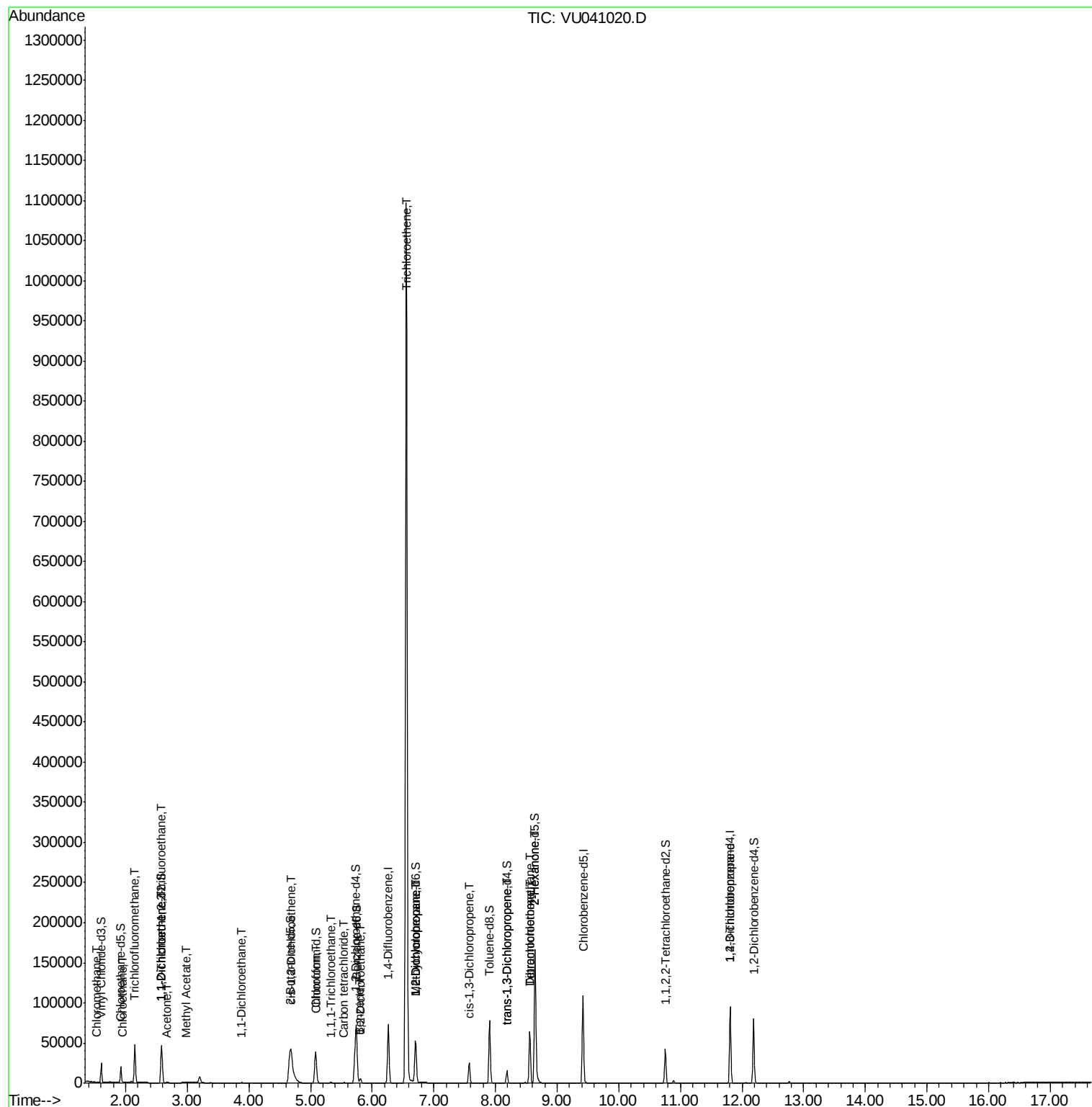
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) cis-1,3-Dichloropropene	7.58	75	587	0.096	ug/L #	75
44) trans-1,3-Dichloropropene	8.19	75	432	0.076	ug/L #	61
47) Tetrachloroethene	8.56	164	12747	4.160	ug/L	95
48) 2-Hexanone	8.64	43	7911	2.974	ug/L #	70
49) Dibromochloromethane	8.56	129	13129	3.427	ug/L #	11
59) 1,2,3-Trichloropropane	11.81	75	3319	1.005	ug/L	91

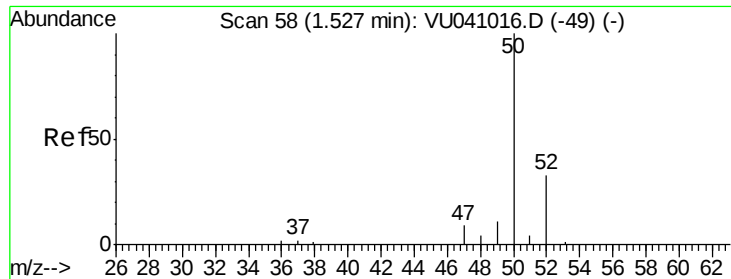
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.054 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU041020.D

Acq: 29 Oct 2020 17:54

Instrument :

MSVOA_U

ClientSampleId :

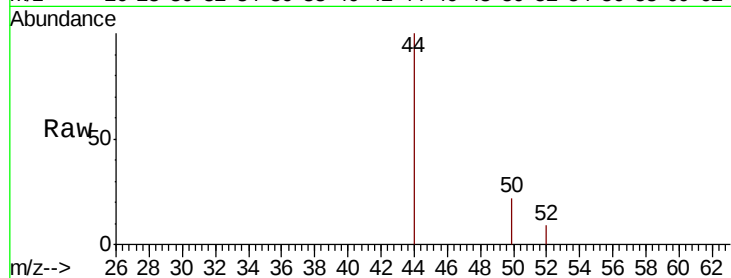
C0BP5

Tot Ion: 50 Resp: 280

Ion Ratio Lower Upper

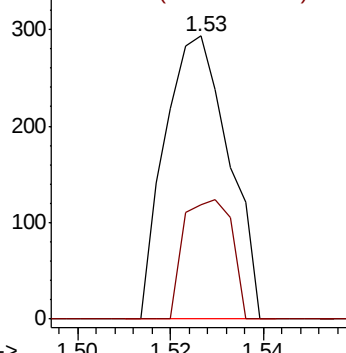
50 100

52 40.3 22.4 41.6

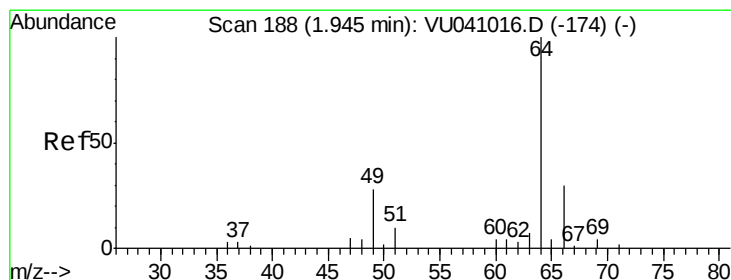
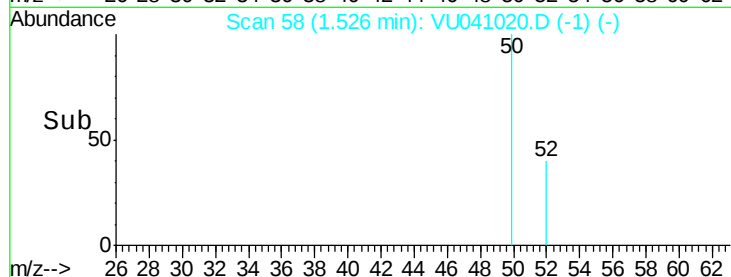


Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



Time-->



#8

Chloroethane

Concen: 0.045 ug/L

RT: 1.95 min Scan# 191

Delta R.T. 0.01 min

Lab File: VU041020.D

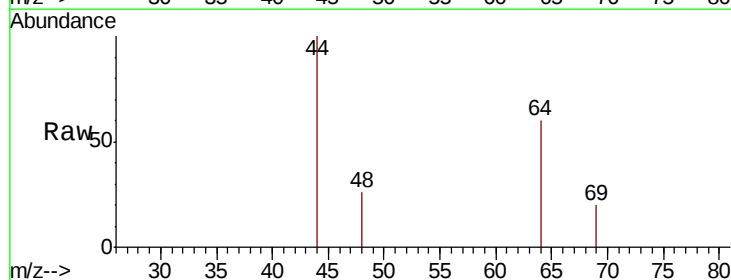
Acq: 29 Oct 2020 17:54

Tgt Ion: 64 Resp: 145

Ion Ratio Lower Upper

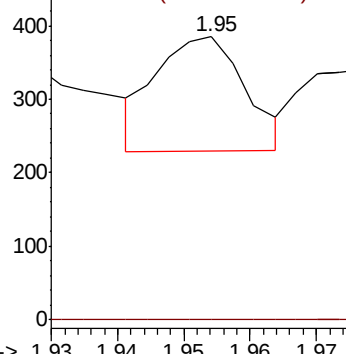
64 100

66 0.0 22.3 41.5#

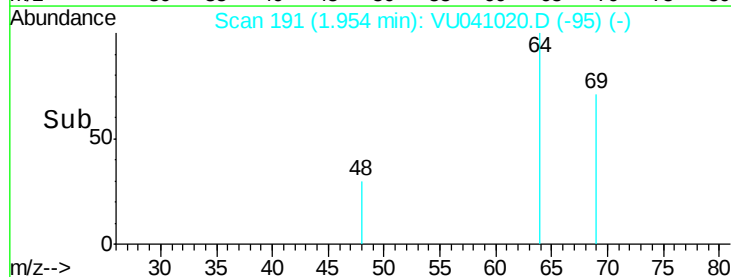


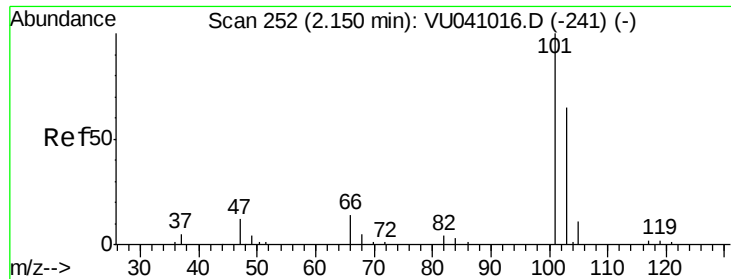
Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0



Time-->





#9

Trichlorofluoromethane

Concen: 4.288 ug/L

RT: 2.15 min Scan# 252

Delta R.T. -0.00 min

Lab File: VU041020.D

Acq: 29 Oct 2020 17:54

Instrument :

MSVOA_U

ClientSampleId :

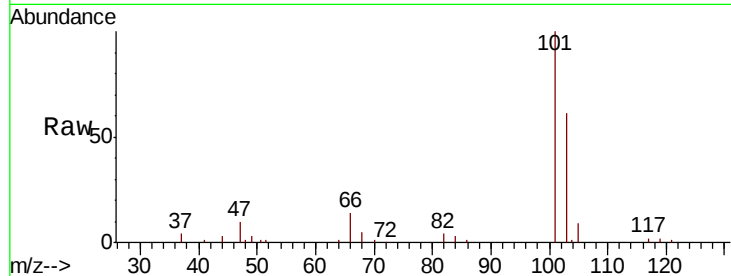
C0BP5

Tot Ion:101 Resp: 29679

Ion Ratio Lower Upper

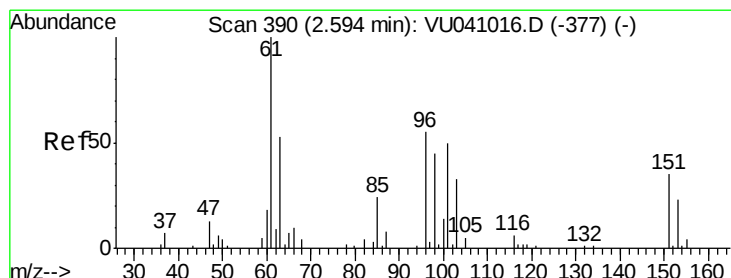
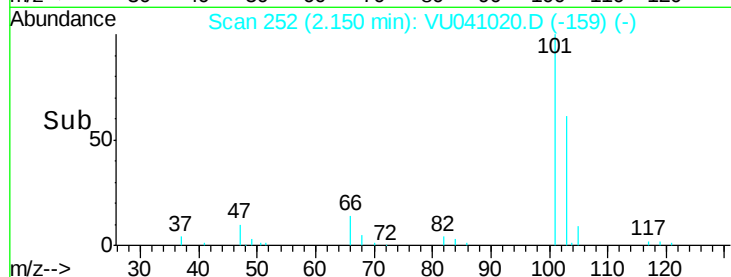
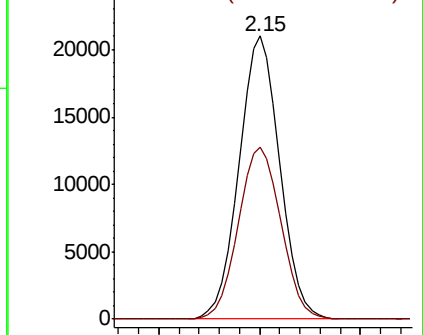
101 100

103 63.7 51.0 76.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#10

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

Concen: 0.056 ug/L

RT: 2.58 min Scan# 387

Delta R.T. -0.01 min

Lab File: VU041020.D

Acq: 29 Oct 2020 17:54

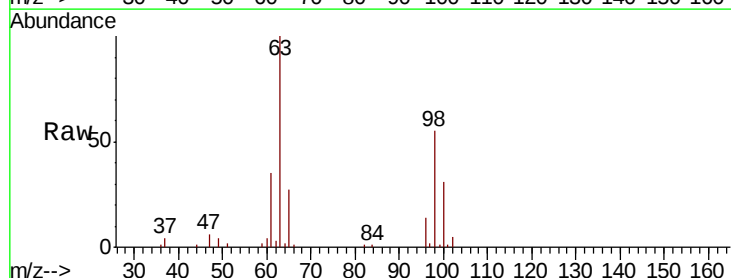
Tgt Ion:101 Resp: 227

Ion Ratio Lower Upper

101 100

85 0.0 35.0 52.4#

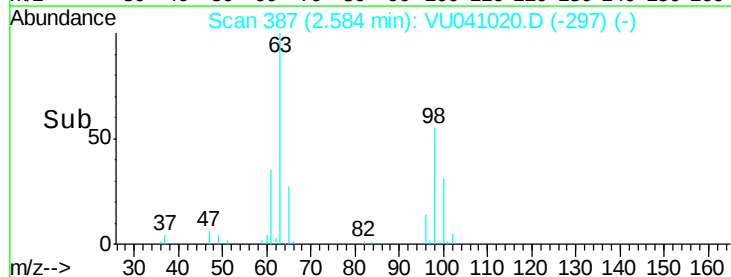
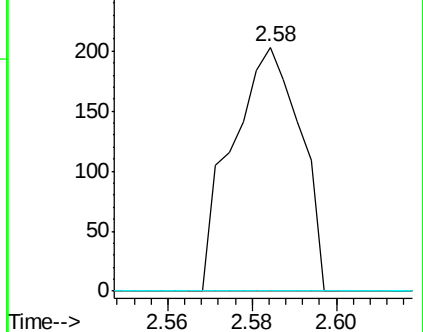
151 0.0 55.3 82.9#

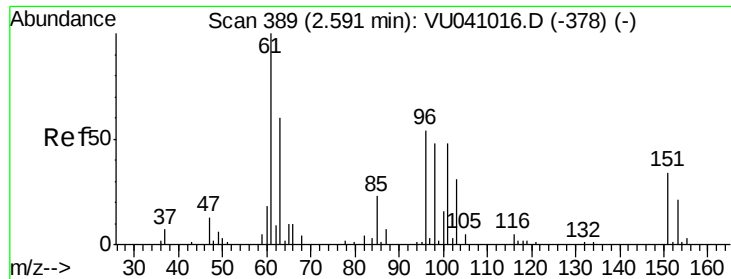


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V





#12

1,1-Dichloroethene

Concen: 1.198 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU041020.D

Acq: 29 Oct 2020 17:54

Instrument :

MSVOA_U

ClientSampled :

C0BP5

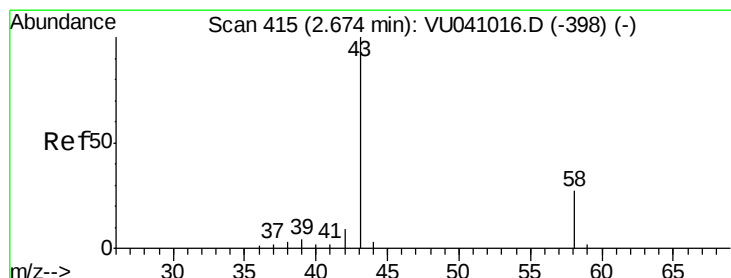
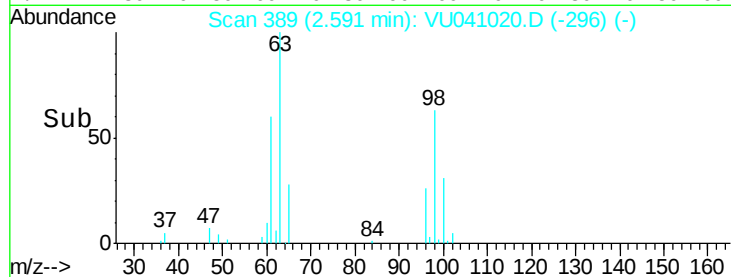
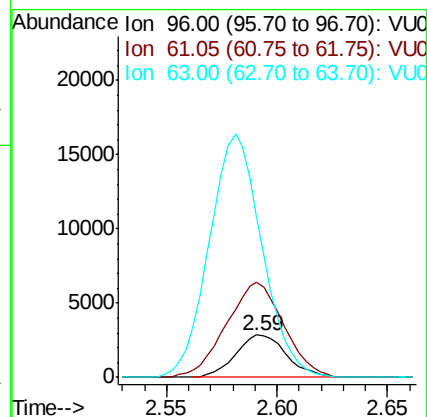
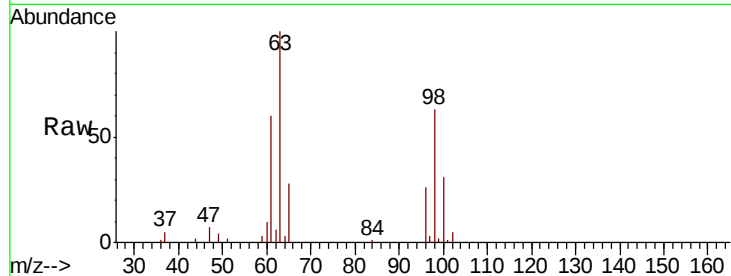
Tot Ion: 96 Resp: 4587

Ion Ratio Lower Upper

96 100

61 227.0 134.3 249.5

63 380.5 95.0 176.4#



#13

Acetone

Concen: 0.822 ug/L

RT: 2.68 min Scan# 417

Delta R.T. 0.01 min

Lab File: VU041020.D

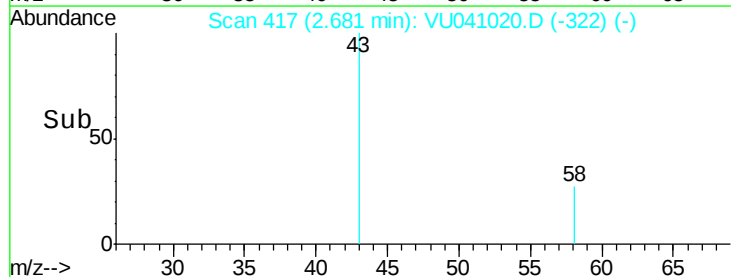
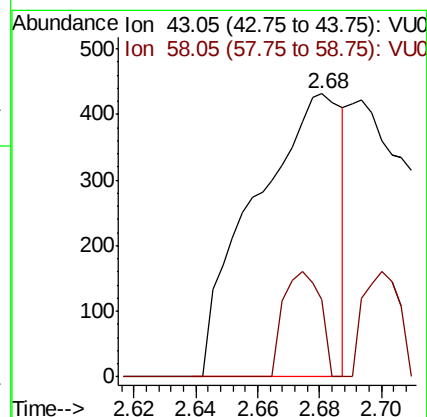
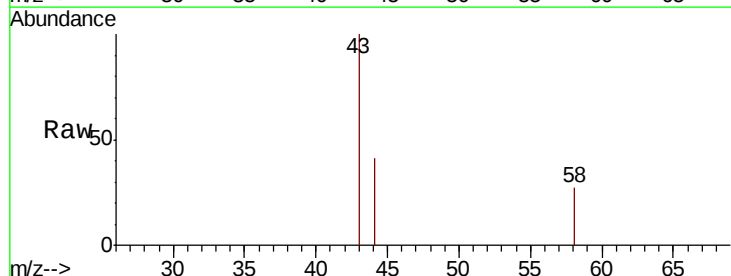
Acq: 29 Oct 2020 17:54

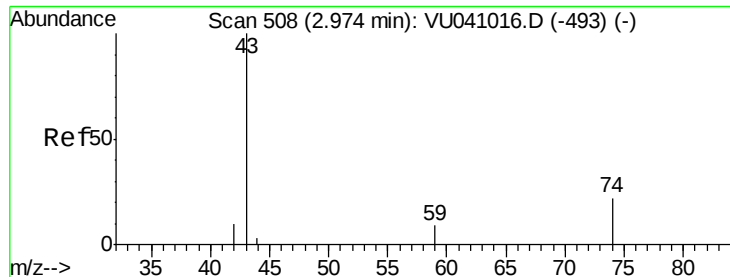
Tgt Ion: 43 Resp: 843

Ion Ratio Lower Upper

43 100

58 15.7 0.0 25.4





#15

Methyl Acetate

Concen: 0.118 ug/L

RT: 2.98 min Scan# 509

Delta R.T. 0.00 min

Lab File: VU041020.D

Acq: 29 Oct 2020 17:54

Instrument :

MSVOA_U

ClientSampleId :

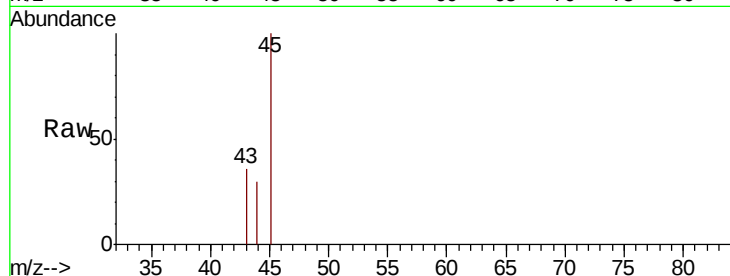
C0BP5

Tot Ion: 43 Resp: 278

Ion Ratio Lower Upper

43 100

74 0.0 18.3 27.5#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0

2.98

200

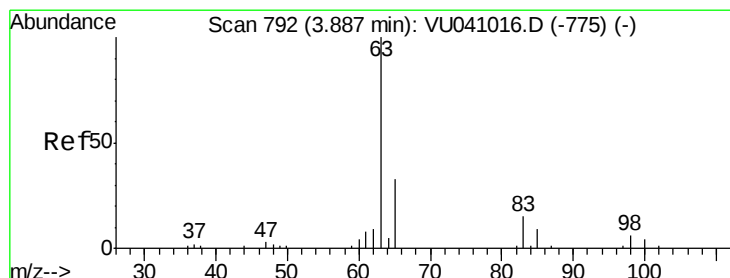
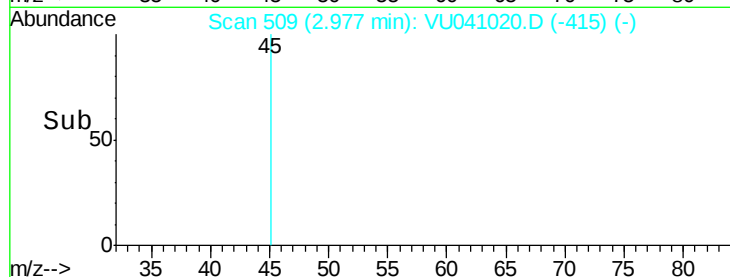
150

100

50

0

Time--> 2.95 2.96 2.97 2.98 2.99



#19

1,1-Dichloroethane

Concen: 0.138 ug/L

RT: 3.88 min Scan# 791

Delta R.T. -0.00 min

Lab File: VU041020.D

Acq: 29 Oct 2020 17:54

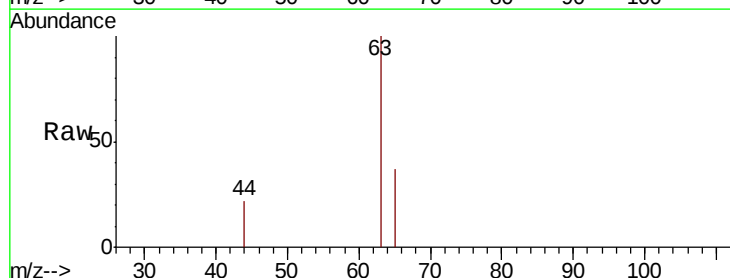
Tgt Ion: 63 Resp: 1076

Ion Ratio Lower Upper

63 100

65 36.7 21.3 39.6

83 0.0 8.8 16.3#



Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 65.10 (64.80 to 65.80): VU0

Ion 83.05 (82.75 to 83.75): VU0

3.88

600

500

400

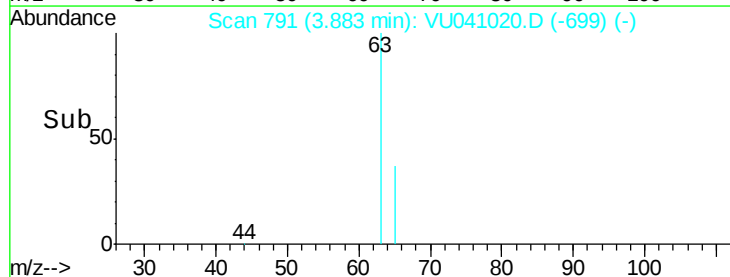
300

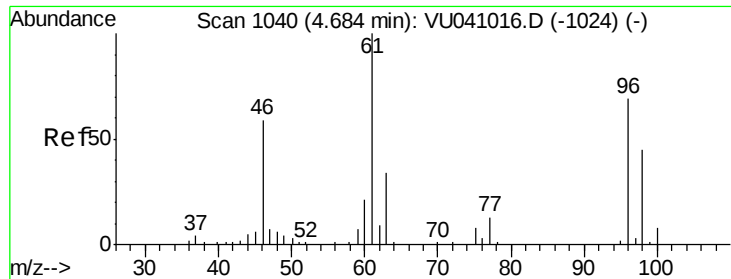
200

100

0

Time--> 3.85 3.90 3.95

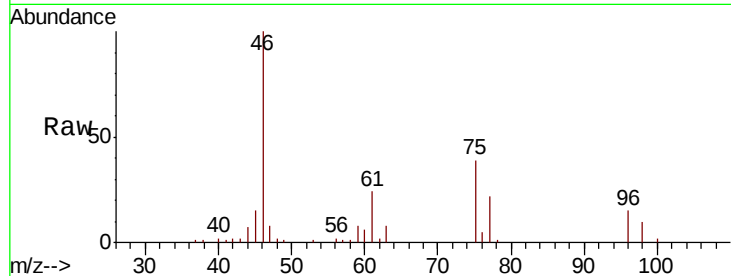




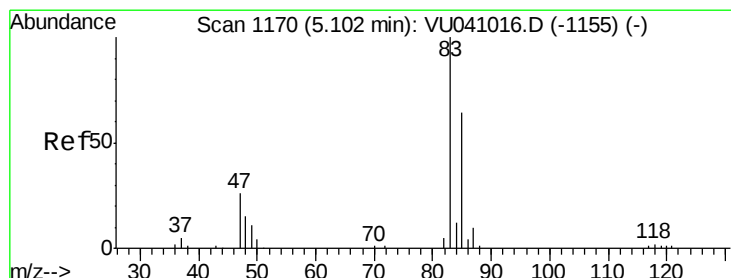
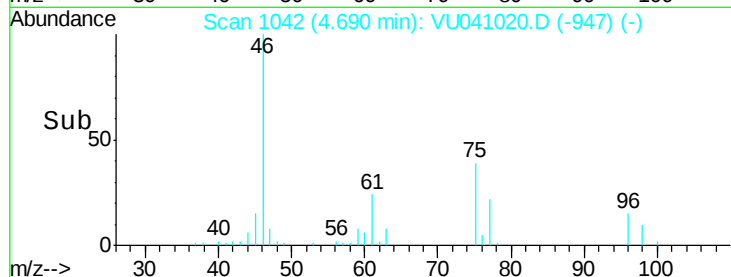
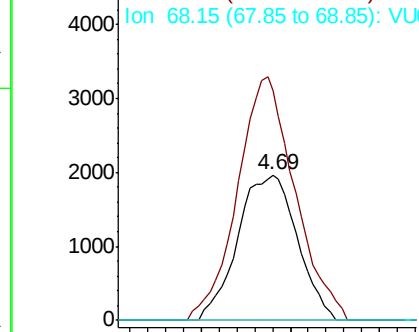
#22
 cis-1,2-Dichloroethene
 Concen: 1.134 ug/L
 RT: 4.69 min Scan# 1042
 Delta R.T. 0.01 min
 Lab File: VU041020.D
 Acq: 29 Oct 2020 17:54

Instrument :
 MSVOA_U
 ClientSampleId :
 C0BP5

Tot Ion: 96 Resp: 4554
 Ion Ratio Lower Upper
 96 100
 61 157.5 97.2 180.4
 68 0.0 0.0 0.0

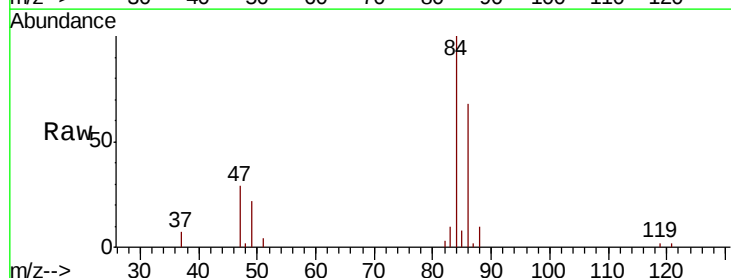


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

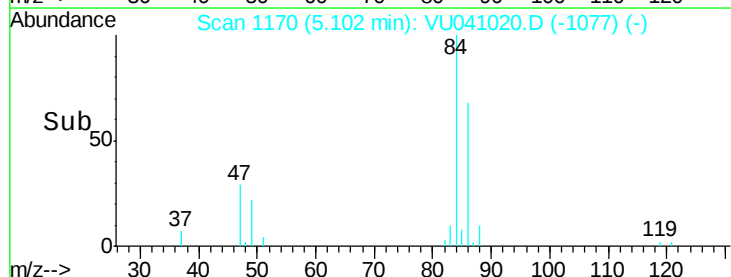
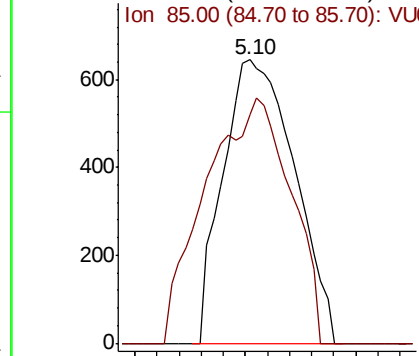


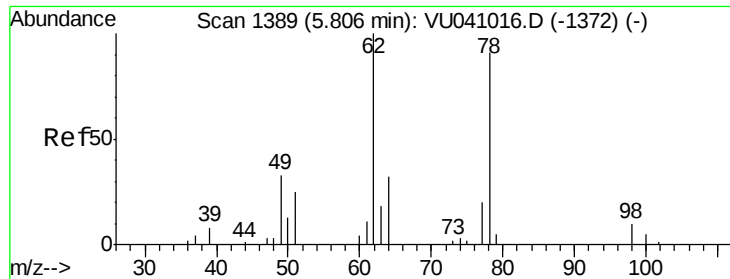
#25
 Chloroform
 Concen: 0.186 ug/L
 RT: 5.10 min Scan# 1170
 Delta R.T. -0.00 min
 Lab File: VU041020.D
 Acq: 29 Oct 2020 17:54

Tgt Ion: 83 Resp: 1451
 Ion Ratio Lower Upper
 83 100
 85 80.5 46.1 85.7



Abundance Ion 83.05 (82.75 to 83.75): VU0
 Ion 85.00 (84.70 to 85.70): VU0

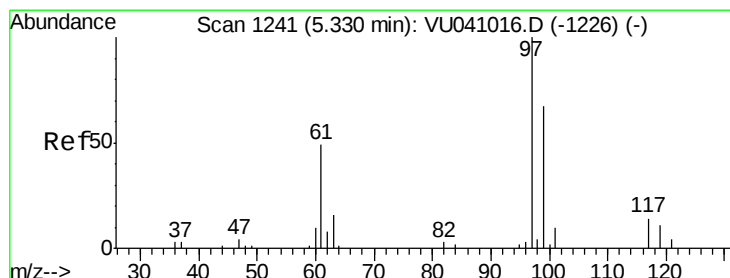
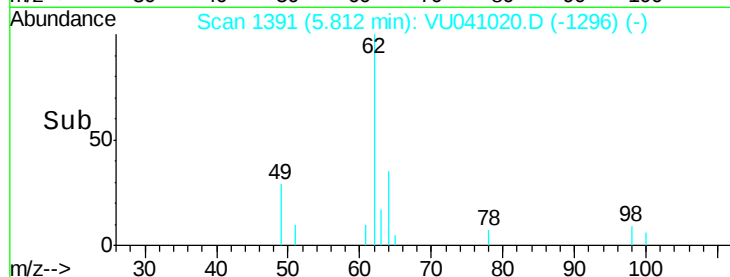
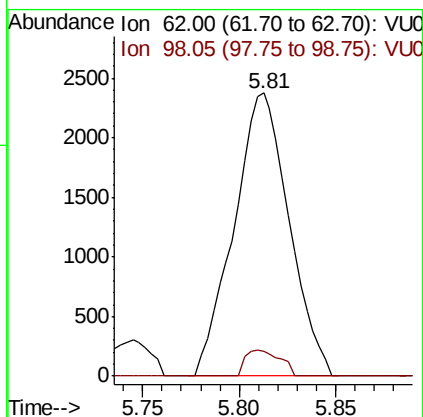
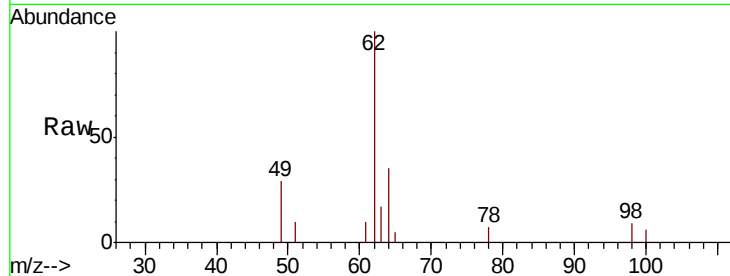




#27
 1,2-Dichloroethane
 Concen: 0.810 ug/L
 RT: 5.81 min Scan# 1391
 Delta R.T. 0.01 min
 Lab File: VU041020.D
 Acq: 29 Oct 2020 17:54

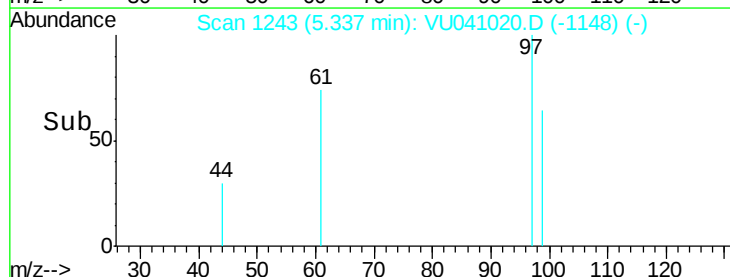
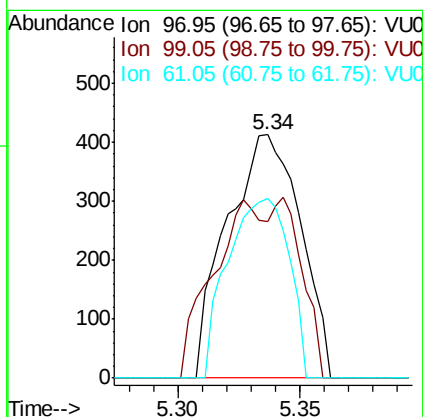
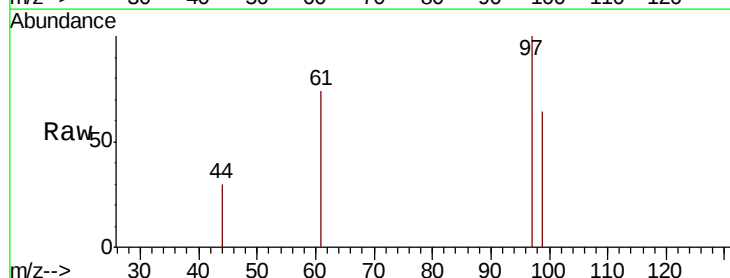
Instrument :
 MSVOA_U
 ClientSampleId :
 C0BP5

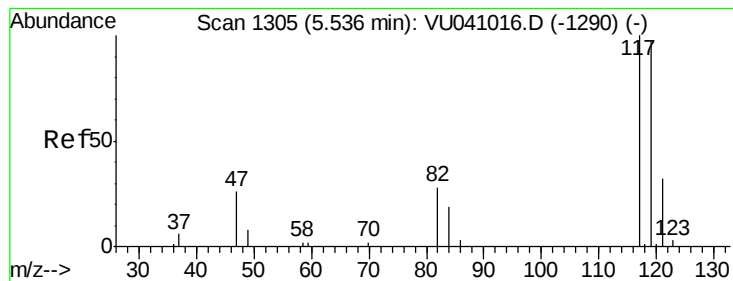
Tot Ion: 62 Resp: 4706
 Ion Ratio Lower Upper
 62 100
 98 9.0 7.6 11.4



#29
 1,1,1-Trichloroethane
 Concen: 0.129 ug/L
 RT: 5.34 min Scan# 1243
 Delta R.T. 0.01 min
 Lab File: VU041020.D
 Acq: 29 Oct 2020 17:54

Tgt Ion: 97 Resp: 863
 Ion Ratio Lower Upper
 97 100
 99 30.2 53.4 80.0#
 61 61.9 41.6 62.4





#31

Carbon tetrachloride

Concen: 0.120 ug/L

RT: 5.54 min Scan# 1307

Delta R.T. 0.01 min

Lab File: VU041020.D

Acq: 29 Oct 2020 17:54

Instrument :

MSVOA_U

ClientSampleId :

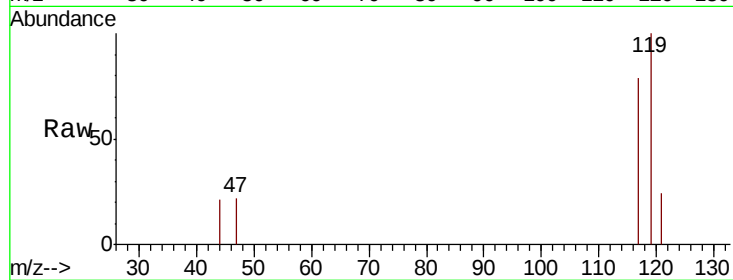
C0BP5

Tot Ion:117 Resp: 710

Ion Ratio Lower Upper

117 100

119 105.6 76.1 114.1

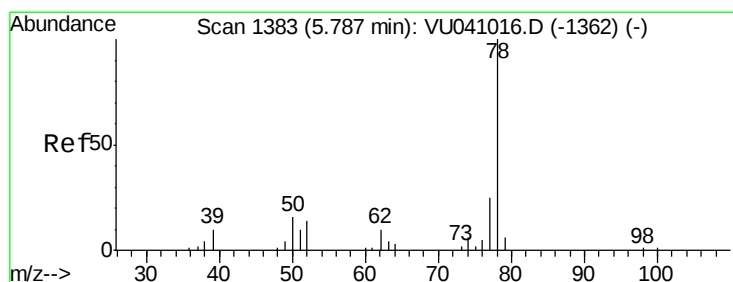
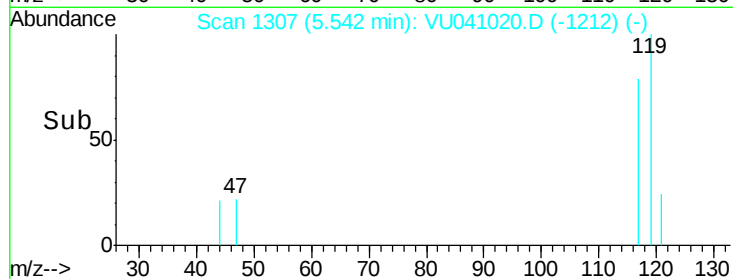


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.54

Time-->



#33

Benzene

Concen: 0.061 ug/L

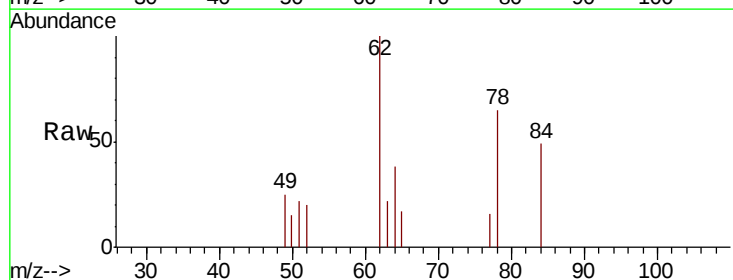
RT: 5.79 min Scan# 1384

Delta R.T. 0.00 min

Lab File: VU041020.D

Acq: 29 Oct 2020 17:54

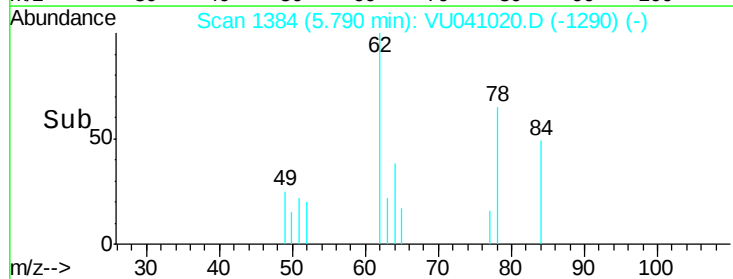
Tgt Ion: 78 Resp: 1000

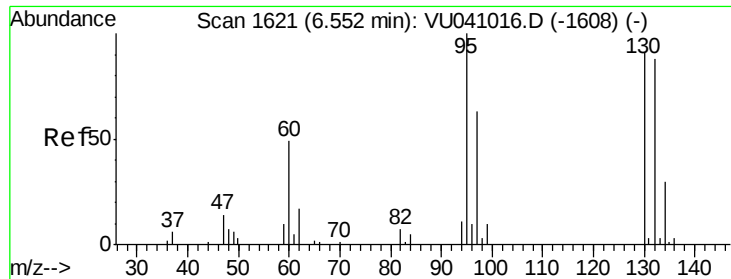


Abundance Ion 78.10 (77.80 to 78.80): VU0

5.79

Time-->

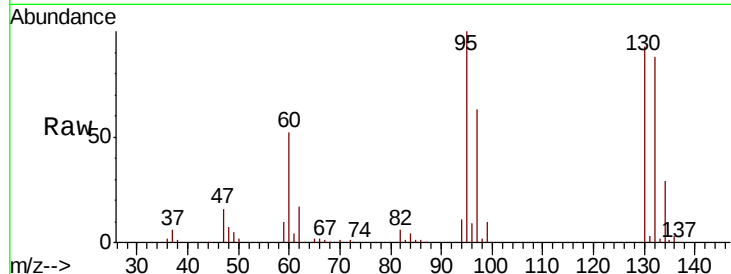




#34
 Trichloroethene
 Concen: 88.119 ug/L
 RT: 6.56 min Scan# 1622
 Delta R.T. 0.00 min
 Lab File: VU041020.D
 Acq: 29 Oct 2020 17:54

Instrument :
 MSVOA_U
 ClientSampleId :
 C0BP5

Tot Ion:	95	Resp:	367228
Ion	Ratio	Lower	Upper
95	100		
97	63.4	45.6	84.6
132	88.0	64.8	120.4
130	92.5	64.8	120.4

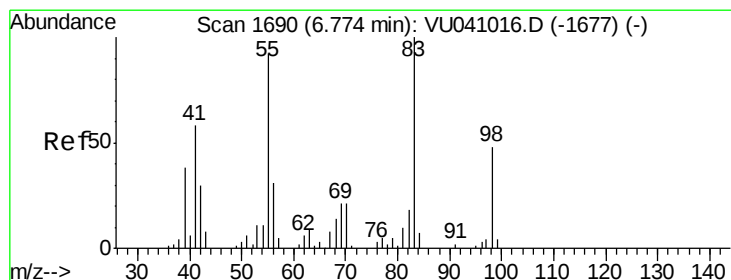
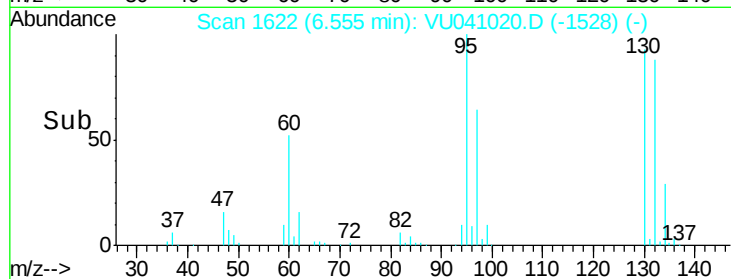
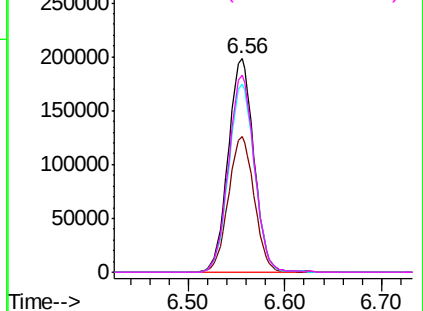


Abundance Ion 95.00 (94.70 to 95.70): VU041020.D (-1528) (-)

Ion 96.95 (96.65 to 97.65): VU041020.D (-1528) (-)

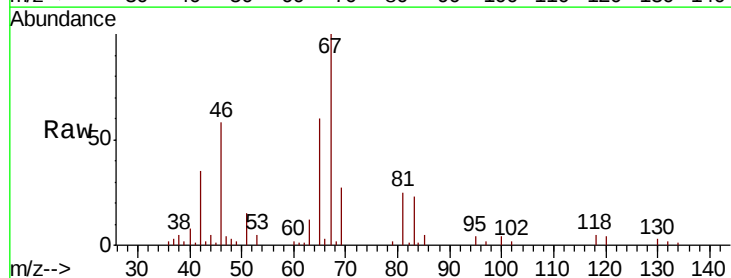
Ion 131.95 (131.65 to 132.65): VU041020.D (-1528) (-)

Ion 129.95 (129.65 to 130.65): VU041020.D (-1528) (-)



#35
 Methylcyclohexane
 Concen: 0.839 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.07 min
 Lab File: VU041020.D
 Acq: 29 Oct 2020 17:54

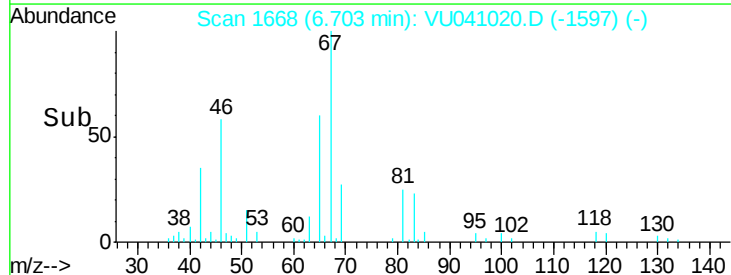
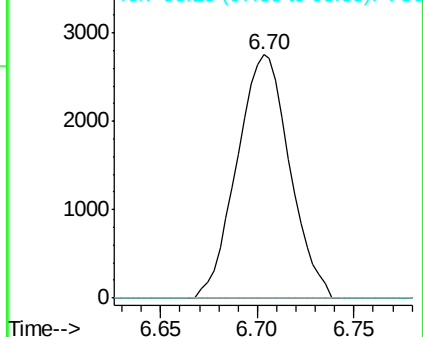
Tgt Ion:	83	Resp:	5213
Ion	Ratio	Lower	Upper
83	100		
55	0.0	72.0	108.0#
98	0.0	36.6	55.0#

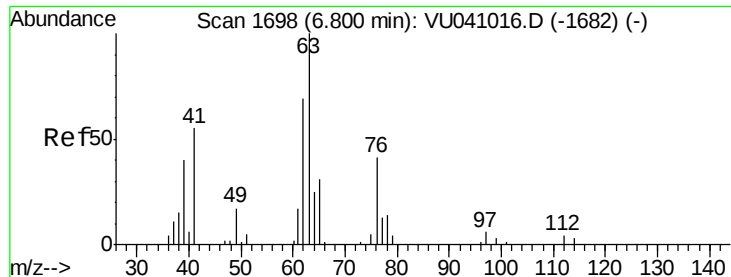


Abundance Ion 83.15 (82.85 to 83.85): VU041020.D (-1597) (-)

Ion 55.10 (54.80 to 55.80): VU041020.D (-1597) (-)

Ion 98.15 (97.85 to 98.85): VU041020.D (-1597) (-)

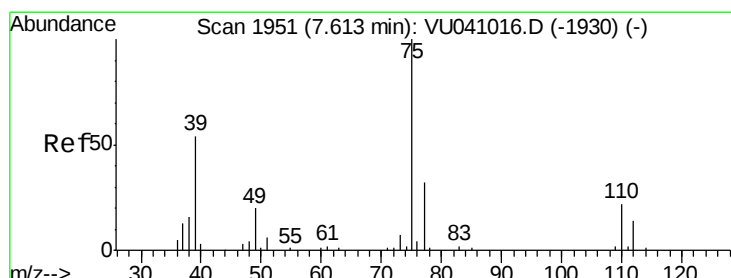
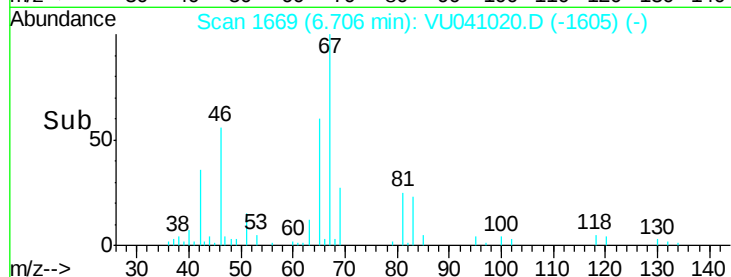
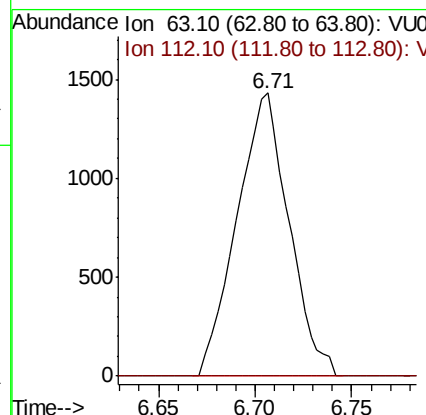
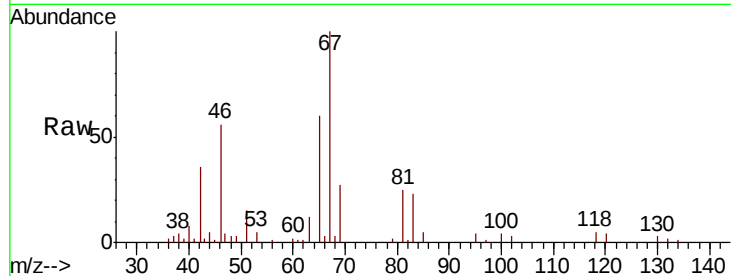




#37
 1,2-Dichloropropane
 Concen: 0.604 ug/L
 RT: 6.71 min Scan# 1669
 Delta R.T. -0.09 min
 Lab File: VU041020.D
 Acq: 29 Oct 2020 17:54

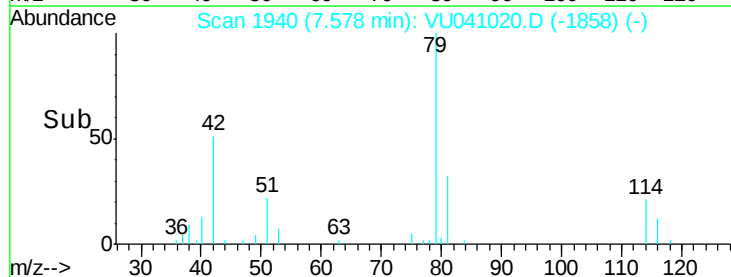
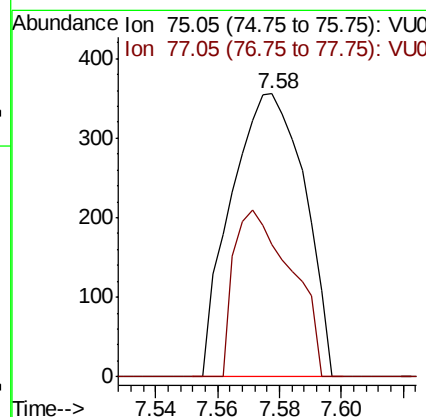
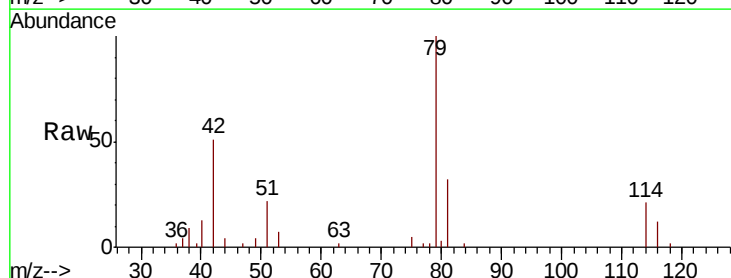
Instrument :
 MSVOA_U
 ClientSampleID :
 C0BP5

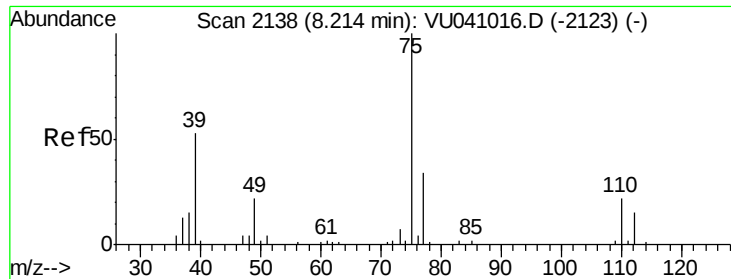
Tot Ion: 63 Resp: 2676
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.6 5.4#



#39
 cis-1,3-Dichloropropene
 Concen: 0.096 ug/L
 RT: 7.58 min Scan# 1940
 Delta R.T. -0.04 min
 Lab File: VU041020.D
 Acq: 29 Oct 2020 17:54

Tgt Ion: 75 Resp: 587
 Ion Ratio Lower Upper
 75 100
 77 46.6 22.7 42.3#





#44

trans-1,3-Dichloropropene

Concen: 0.076 ug/L

RT: 8.19 min Scan# 2129

Delta R.T. -0.03 min

Lab File: VU041020.D

Acq: 29 Oct 2020 17:54

Instrument :

MSVOA_U

ClientSampled :

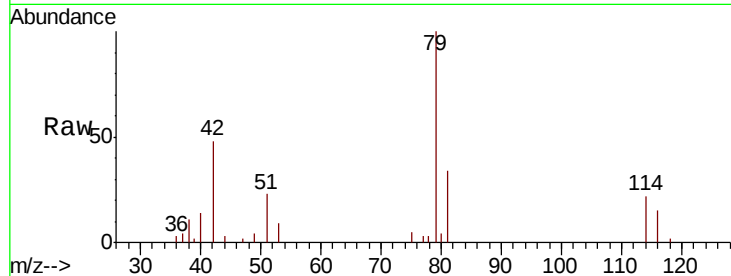
C0BP5

Tot Ion: 75 Resp: 432

Ion Ratio Lower Upper

75 100

77 55.6 23.3 43.3#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

8.19

250

200

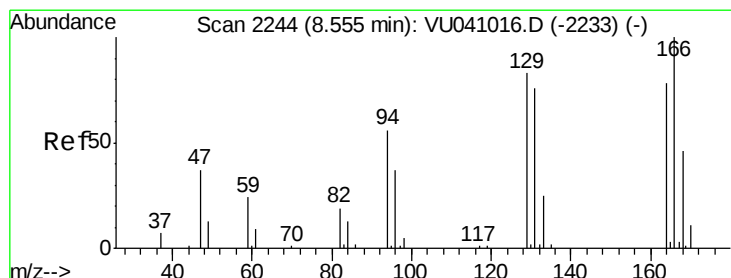
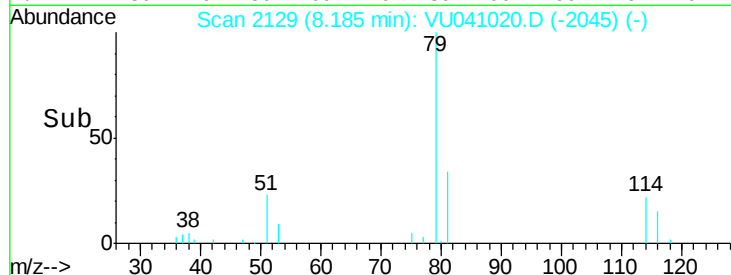
150

100

50

0

Time-->



#47

Tetrachloroethene

Concen: 4.160 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.00 min

Lab File: VU041020.D

Acq: 29 Oct 2020 17:54

Tgt Ion: 164 Resp: 12747

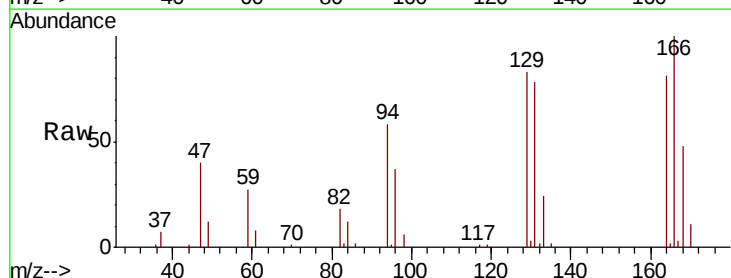
Ion Ratio Lower Upper

164 100

129 102.5 70.3 130.7

131 96.8 70.8 131.4

166 123.6 92.0 170.8



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

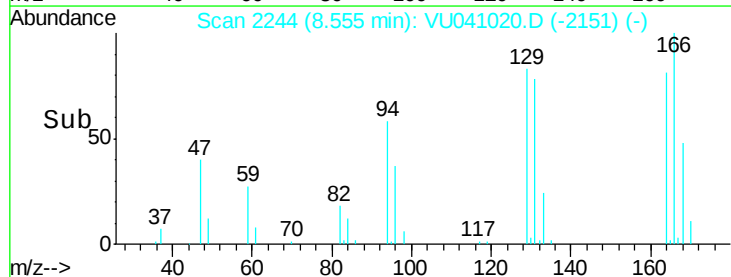
15000

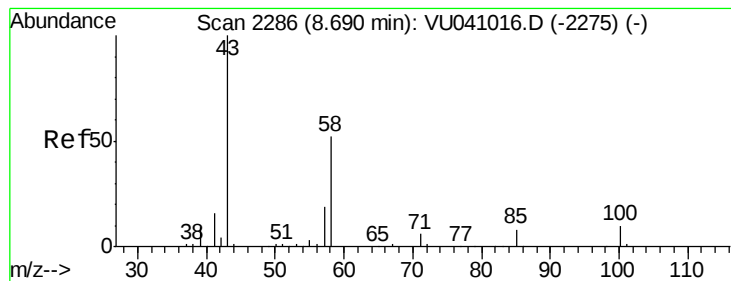
10000

5000

0

Time-->





#48

2-Hexanone

Concen: 2.974 ug/L

RT: 8.64 min Scan# 2271

Delta R.T. -0.05 min

Lab File: VU041020.D

Acq: 29 Oct 2020 17:54

Instrument :

MSVOA_U

ClientSampleId :

C0BP5

Tot Ion: 43 Resp: 7911

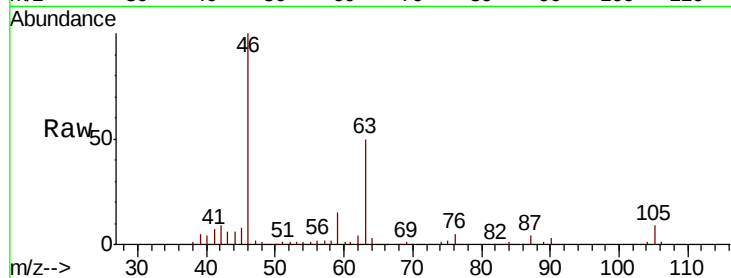
Ion Ratio Lower Upper

43 100

58 28.5 41.4 62.2#

57 27.5 14.6 21.8#

100 0.0 8.3 12.5#

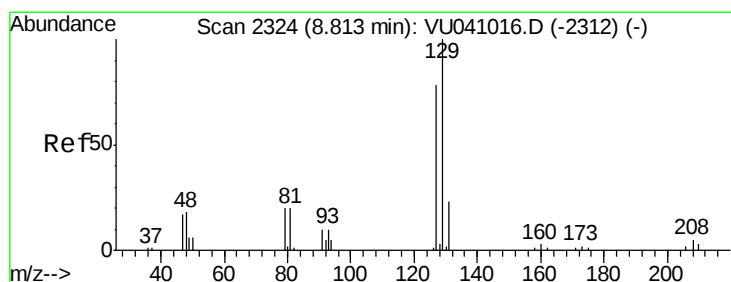
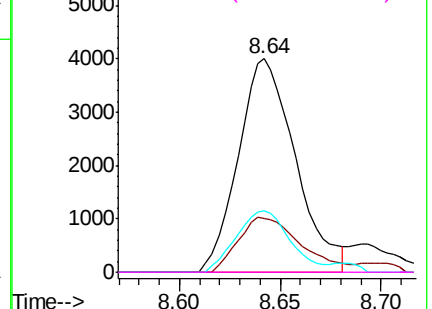
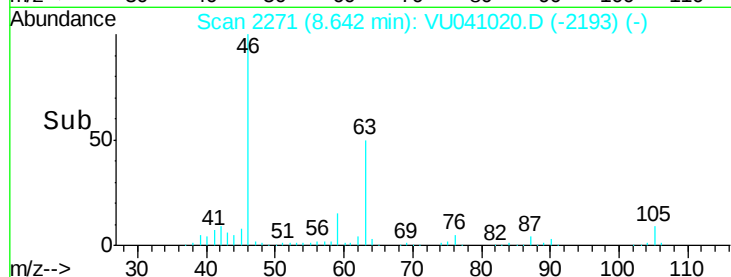


Abundance Ion 43.05 (42.75 to 43.75): VU041016.D (-2275) (-)

Ion 58.05 (57.75 to 58.75): VU041016.D (-2275) (-)

Ion 57.20 (56.90 to 57.90): VU041016.D (-2275) (-)

Ion 100.15 (99.85 to 100.85): VU041016.D (-2275) (-)



#49

Dibromochloromethane

Concen: 3.427 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.25 min

Lab File: VU041020.D

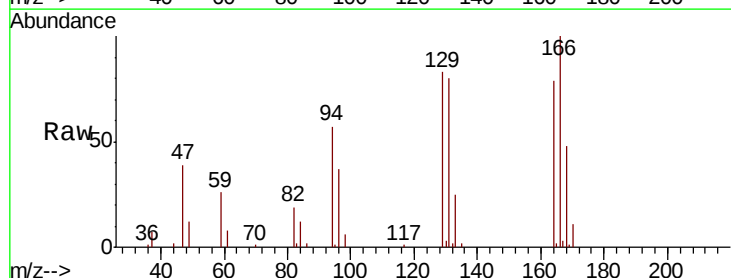
Acq: 29 Oct 2020 17:54

Tgt Ion: 129 Resp: 13129

Ion Ratio Lower Upper

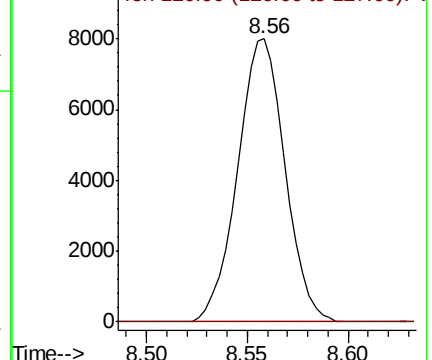
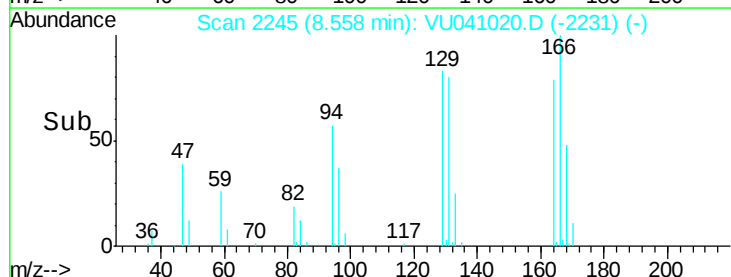
129 100

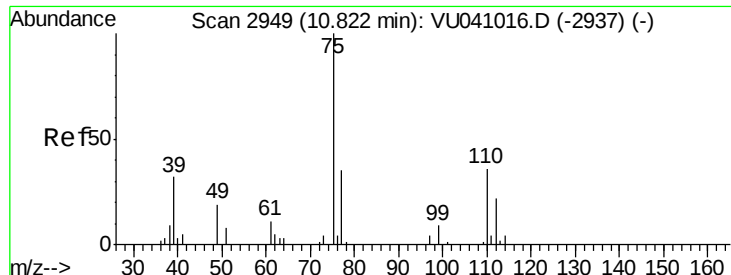
127 0.0 53.4 99.2#



Abundance Ion 128.95 (128.65 to 129.65): VU041016.D (-2312) (-)

Ion 126.90 (126.60 to 127.60): VU041016.D (-2312) (-)





#59

1,2,3-Trichloropropane

Concen: 1.005 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU041020.D

Acq: 29 Oct 2020 17:54

Instrument :

MSVOA_U

ClientSampleId :

C0BP5

Tot Ion: 75 Resp: 3319

Ion Ratio Lower Upper

75 100

77 37.0 25.7 38.5

