

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U102020\
 Data File : VU040853.D
 Acq On : 20 Oct 2020 17:33
 Operator : SY/MD
 Sample : L4428-10
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 ETZ45

Quant Time: Oct 20 23:59:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100820WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Oct 20 23:49:45 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	120874	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	121886	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	50753	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	109329	10.91	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	218.20%#
7) Chloroethane-d5	1.92	69	38460	4.98	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	99.60%
11) 1,1-Dichloroethene-d2	2.58	63	84151	4.30	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	86.00%
20) 2-Butanone-d5	4.67	46	193826	60.47	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	120.94%
24) Chloroform-d	5.08	84	86304	4.91	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.20%
26) 1,2-Dichloroethane-d4	5.72	65	53727	5.02	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.40%
32) Benzene-d6	5.74	84	159509	4.85	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.00%
36) 1,2-Dichloropropane-d6	6.70	67	55323	5.07	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	101.40%
41) Toluene-d8	7.91	98	127949	4.35	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.00%
43) trans-1,3-Dichloropropene-	8.19	79	21453	4.64	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	92.80%
46) 2-Hexanone-d5	8.64	63	125190	52.55	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	105.10%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	49080	5.01	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.20%
64) 1,2-Dichlorobenzene-d4	12.19	152	49492	5.26	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	105.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.65	85	1054	0.096	ug/L	90
3) Chloromethane	1.61	50	67046	6.546	ug/L #	45
5) Vinyl chloride	1.61	62	9143884	847.776	ug/L	97
8) Chloroethane	1.94	64	1204	0.175	ug/L #	47
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	1975	0.196	ug/L #	79
12) 1,1-Dichloroethene	2.59	96	36855	4.273	ug/L	91
13) Acetone	2.66	43	4004	1.612	ug/L	95
14) Carbon disulfide	2.82	76	11490	0.476	ug/L	99
17) Methyl tert-butyl Ether	3.38	73	7540	0.309	ug/L #	91
18) trans-1,2-Dichloroethene	3.37	96	158964	17.608	ug/L	99
19) 1,1-Dichloroethane	3.89	63	1345	0.072	ug/L #	87
22) cis-1,2-Dichloroethene	4.69	96	20928478	2149.635	ug/L	65
27) 1,2-Dichloroethane	5.81	62	1682	0.125	ug/L #	77
30) Cyclohexane	5.41	56	1040	0.069	ug/L #	88
33) Benzene	5.79	78	1471	0.038	ug/L	100
34) Trichloroethene	6.56	95	143828	14.170	ug/L	95
35) Methylcyclohexane	6.70	83	12644	0.878	ug/L #	14

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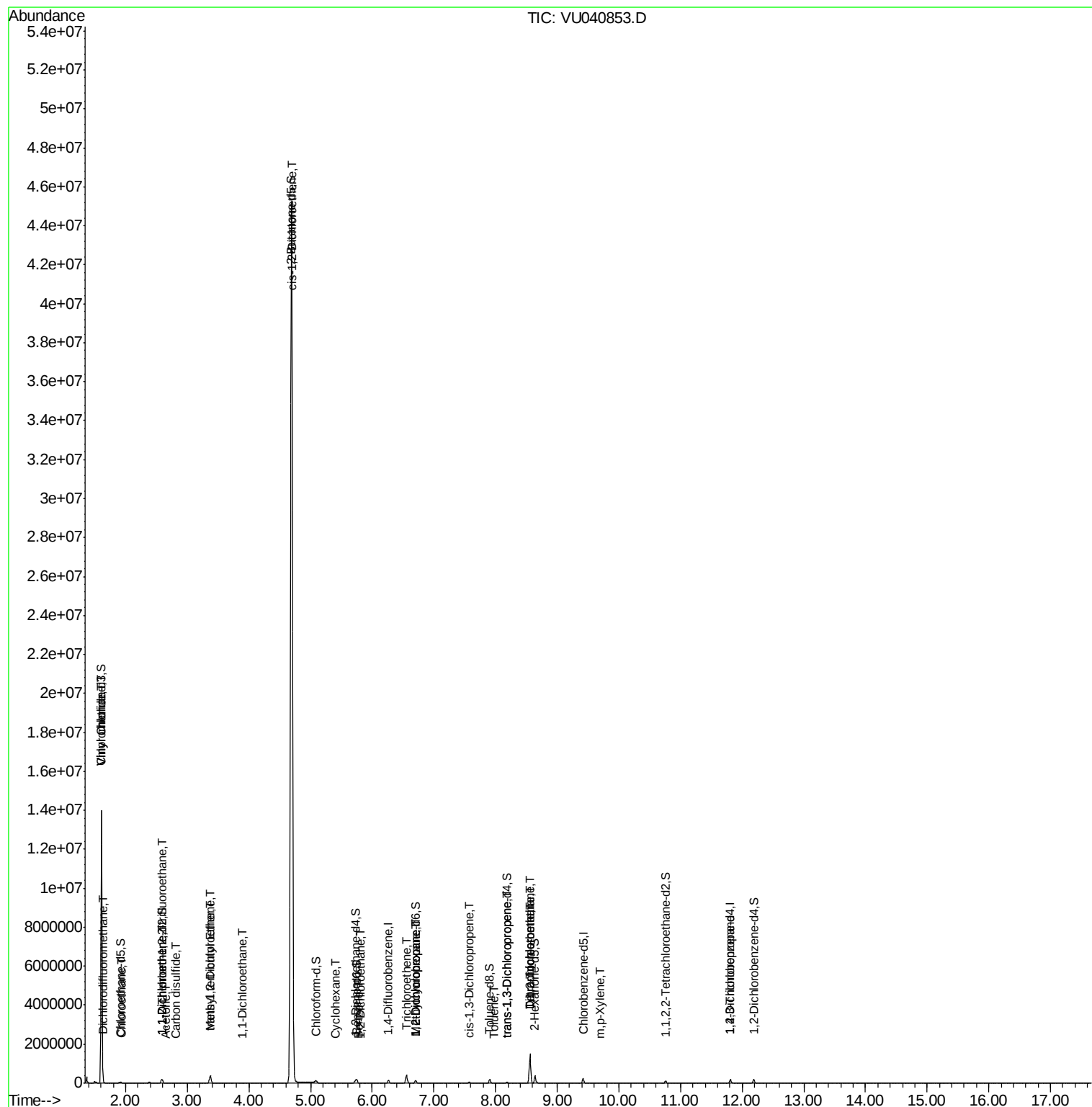
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,2-Dichloropropane	6.70	63	6354	0.582	uq/L #	87
39) cis-1,3-Dichloropropene	7.57	75	1473	0.099	uq/L #	36
42) Toluene	7.98	91	1567	0.039	uq/L #	67
44) trans-1,3-Dichloropropene	8.19	75	993	0.072	uq/L #	72
45) 1,1,2-Trichloroethane	8.56	97	2981	0.365	uq/L #	13
47) Tetrachloroethene	8.56	164	306351	42.303	uq/L	97
49) Dibromochloromethane	8.56	129	301736	32.092	uq/L #	10
53) m,p-Xylene	9.69	106	1836	0.117	uq/L	62
59) 1,2,3-Trichloropropane	11.81	75	7034	0.878	uq/L	96

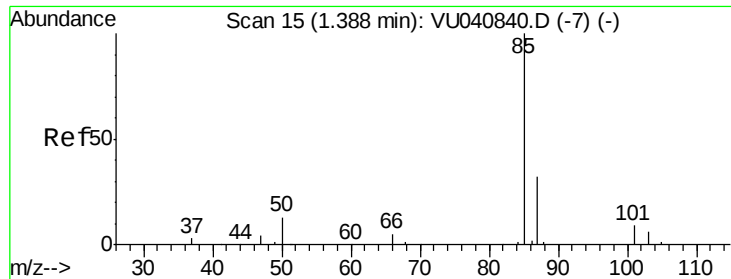
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.096 ug/L

RT: 1.65 min Scan# 95

Delta R.T. 0.26 min

Lab File: VU040853.D

Acq: 20 Oct 2020 17:33

Instrument :

MSVOA_U

ClientSampleId :

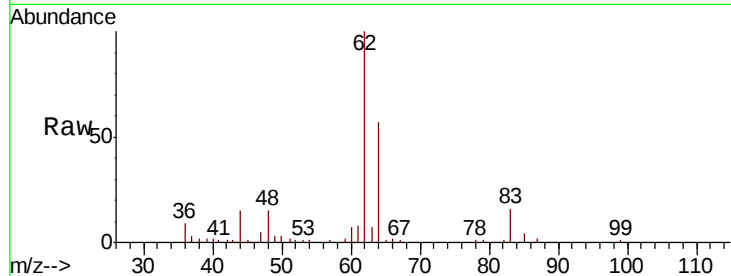
ETZ45

Tot Ion: 85 Resp: 1054

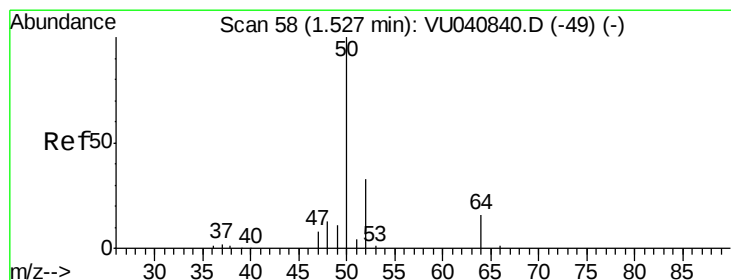
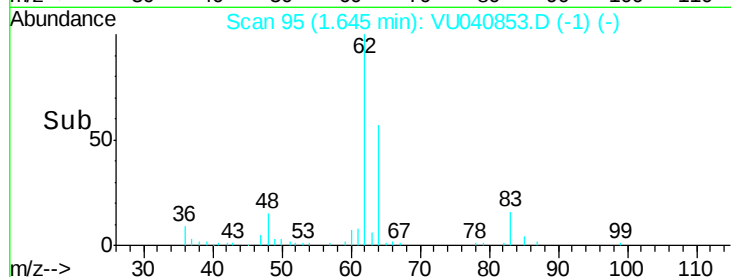
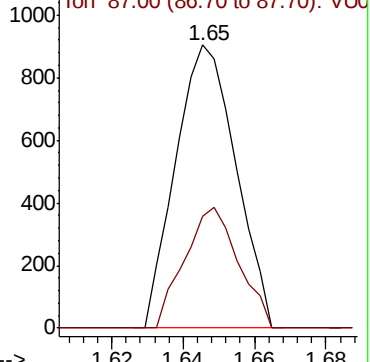
Ion Ratio Lower Upper

85 100

87 38.3 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU040853.D (-1) (-)



#3

Chloromethane

Concen: 6.546 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.08 min

Lab File: VU040853.D

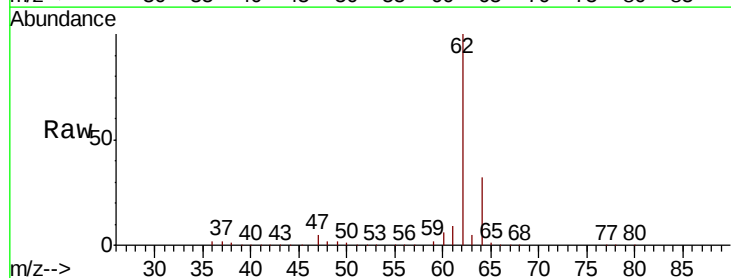
Acq: 20 Oct 2020 17:33

Tgt Ion: 50 Resp: 67046

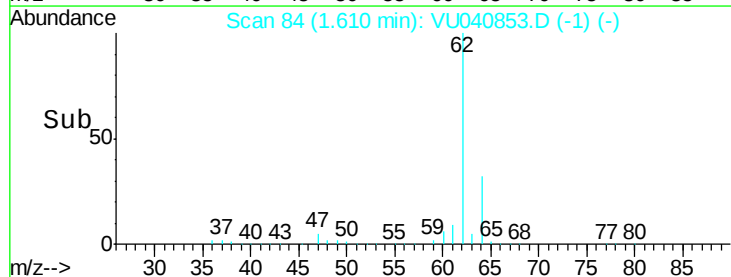
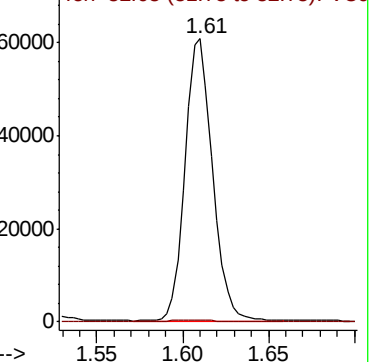
Ion Ratio Lower Upper

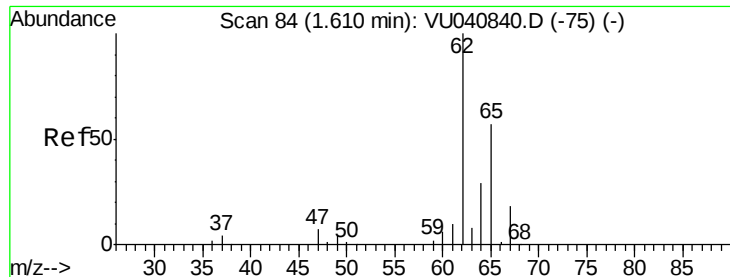
50 100

52 0.7 21.9 40.7#



Abundance Ion 50.05 (49.75 to 50.75): VU040853.D (-1) (-)





#5

Vinyl chloride

Concen: 847.776 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU040853.D

Acq: 20 Oct 2020 17:33

Instrument :

MSVOA_U

ClientSampleId :

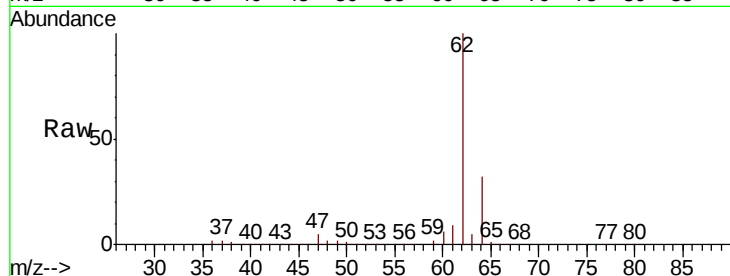
ETZ45

Tot Ion: 62 Resp: 9143884

Ion Ratio Lower Upper

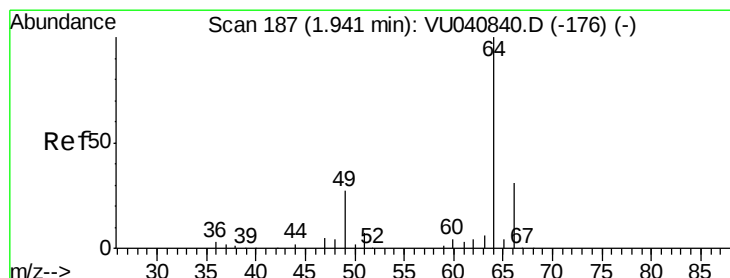
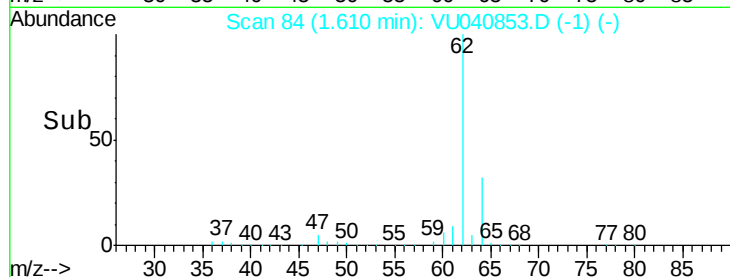
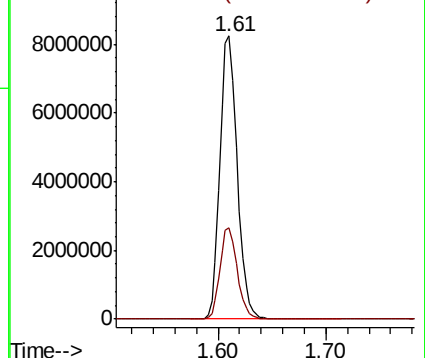
62 100

64 32.4 23.7 44.1



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#8

Chloroethane

Concen: 0.175 ug/L

RT: 1.94 min Scan# 187

Delta R.T. -0.00 min

Lab File: VU040853.D

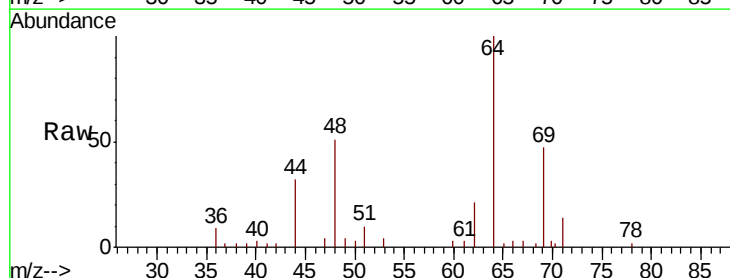
Acq: 20 Oct 2020 17:33

Tgt Ion: 64 Resp: 1204

Ion Ratio Lower Upper

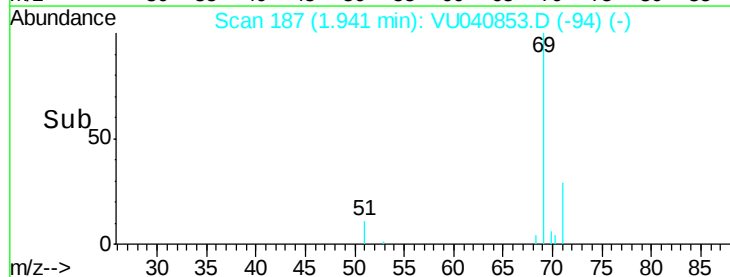
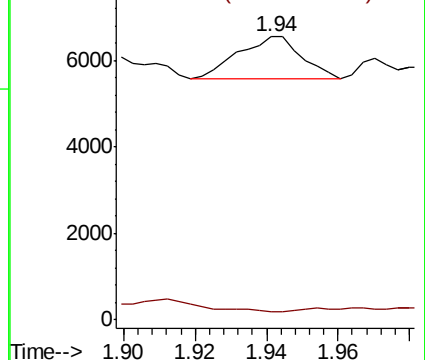
64 100

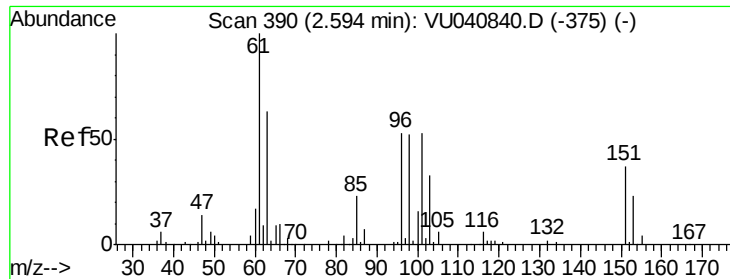
66 3.0 23.3 43.3#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0





#10

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

Concen: 0.196 ug/L

RT: 2.59 min Scan# 390

Delta R.T. -0.00 min

Lab File: VU040853.D

Acq: 20 Oct 2020 17:33

Instrument :

MSVOA_U

ClientSampleId :

ETZ45

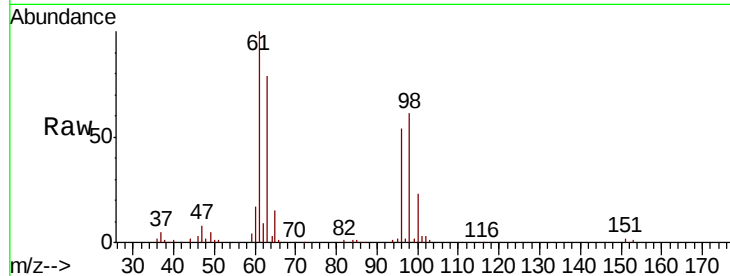
Tot Ion:101 Resp: 1975

Ion Ratio Lower Upper

101 100

85 41.0 36.7 55.1

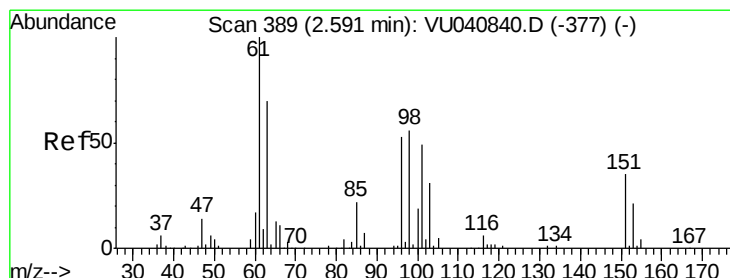
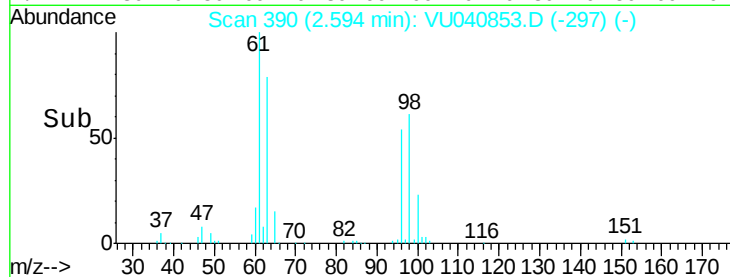
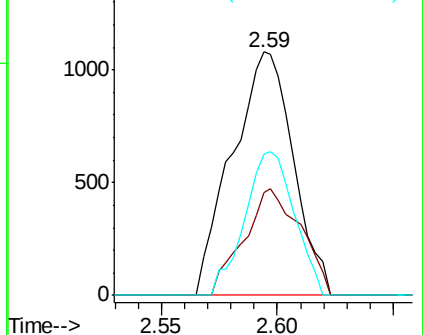
151 48.2 58.0 87.0#



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: 4.273 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU040853.D

Acq: 20 Oct 2020 17:33

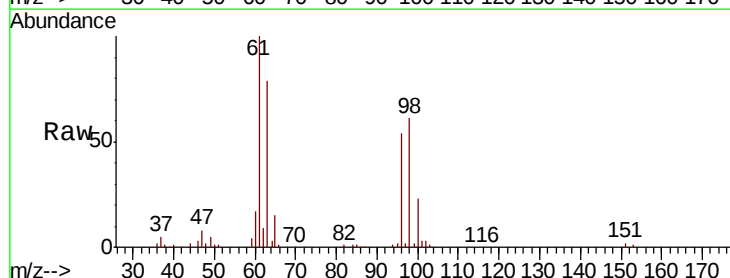
Tgt Ion: 96 Resp: 36855

Ion Ratio Lower Upper

96 100

61 183.7 128.8 239.2

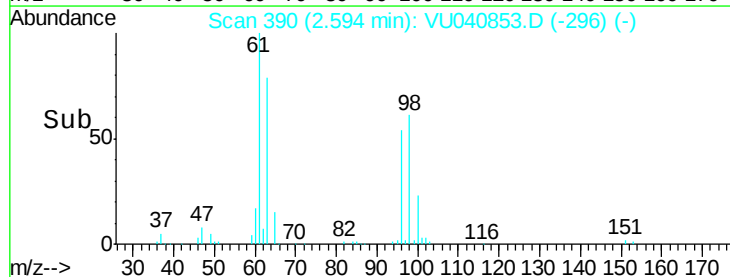
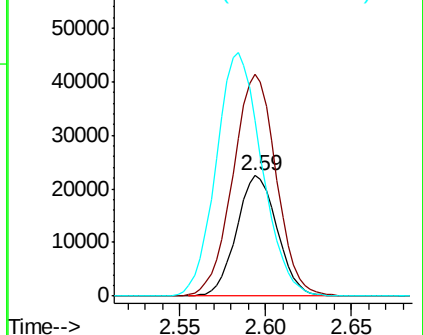
63 145.9 84.6 157.2

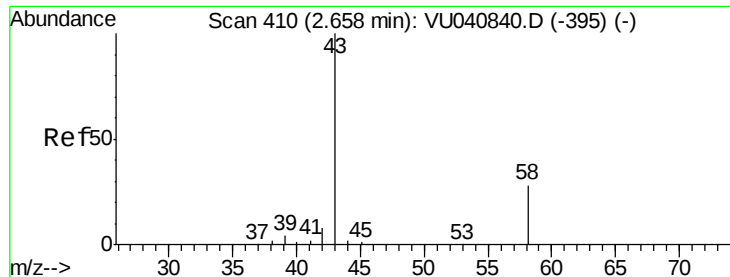


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 1.612 ug/L

RT: 2.66 min Scan# 409

Delta R.T. -0.00 min

Lab File: VU040853.D

Acq: 20 Oct 2020 17:33

Instrument :

MSVOA_U

ClientSampleId :

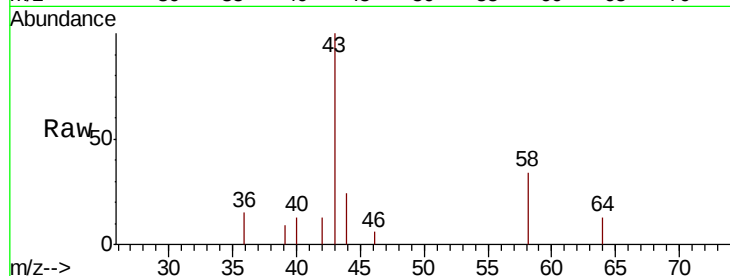
ETZ45

Tot Ion: 43 Resp: 4004

Ion Ratio Lower Upper

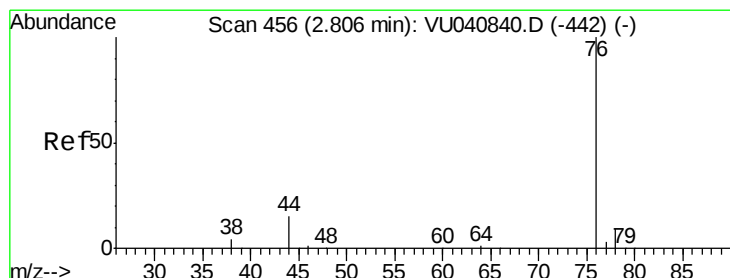
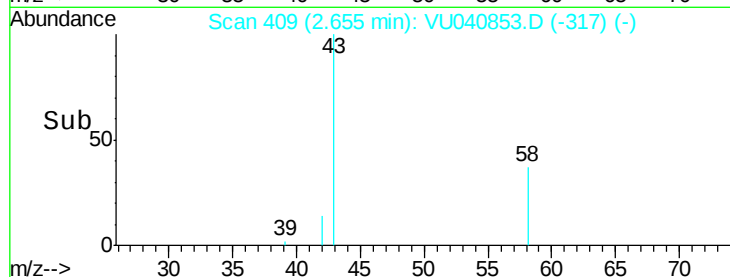
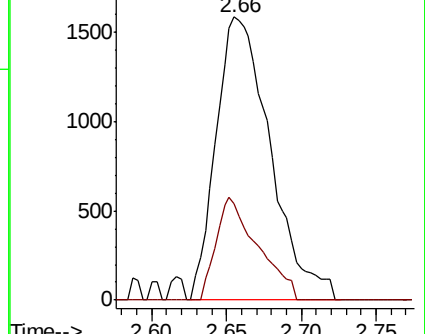
43 100

58 27.8 0.0 60.6



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#14

Carbon disulfide

Concen: 0.476 ug/L

RT: 2.82 min Scan# 459

Delta R.T. 0.01 min

Lab File: VU040853.D

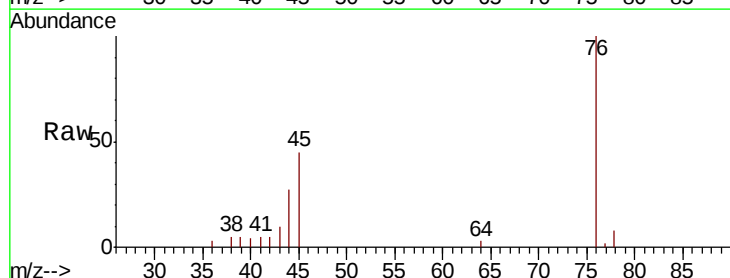
Acq: 20 Oct 2020 17:33

Tgt Ion: 76 Resp: 11490

Ion Ratio Lower Upper

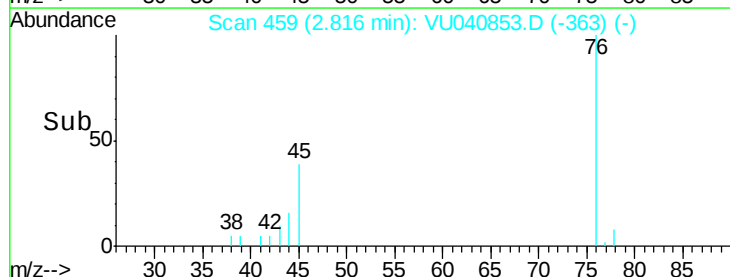
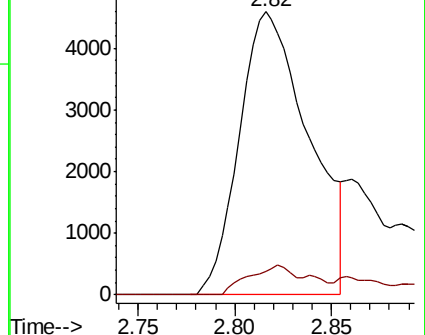
76 100

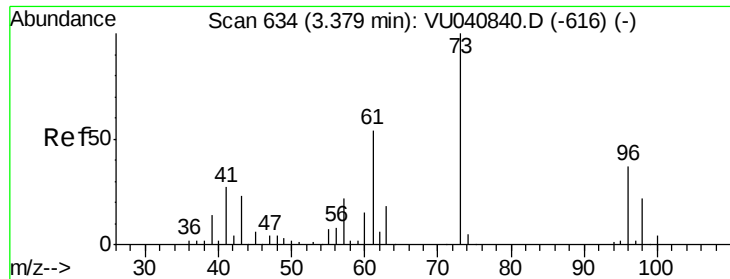
78 8.3 6.8 10.2



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0

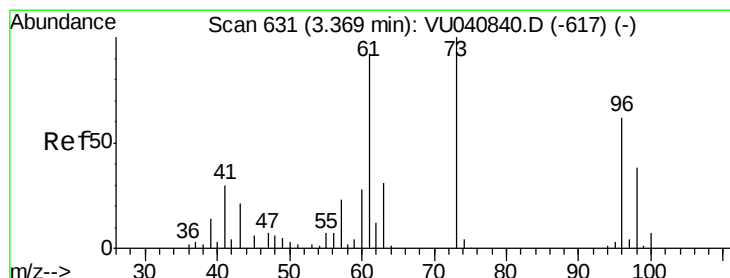
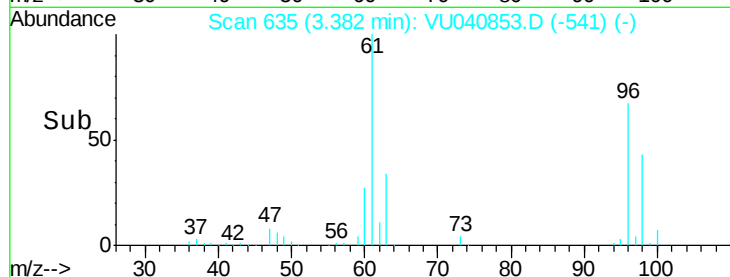
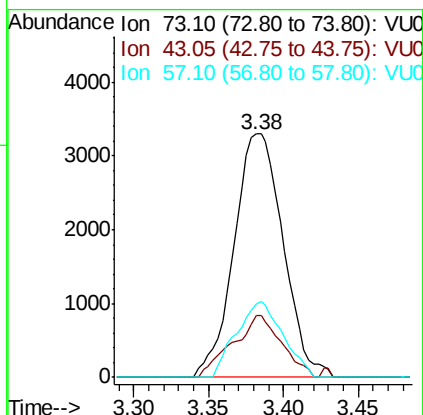
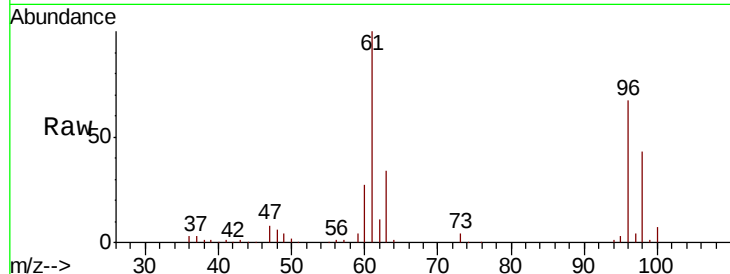




#17
Methvl tert-butvl Ether
Concen: 0.309 ug/L
RT: 3.38 min Scan# 635
Delta R.T. 0.00 min
Lab File: VU040853.D
Acq: 20 Oct 2020 17:33

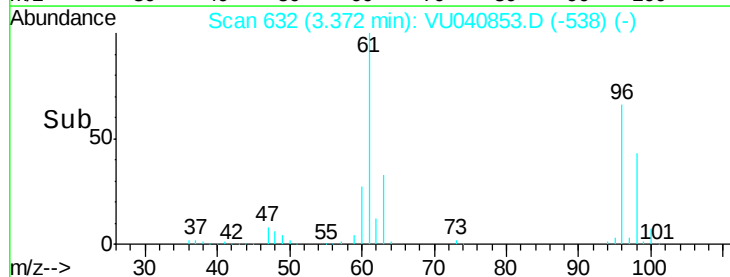
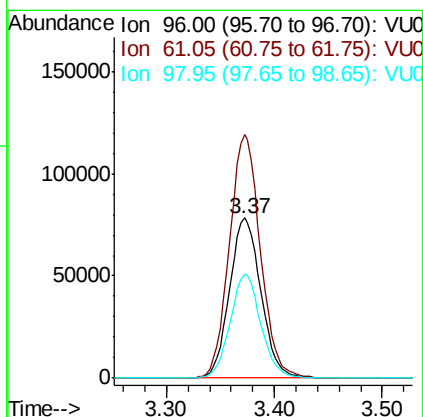
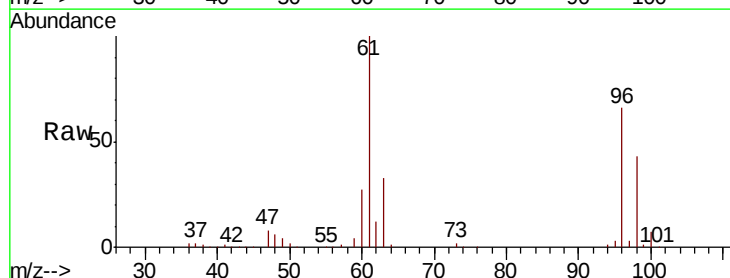
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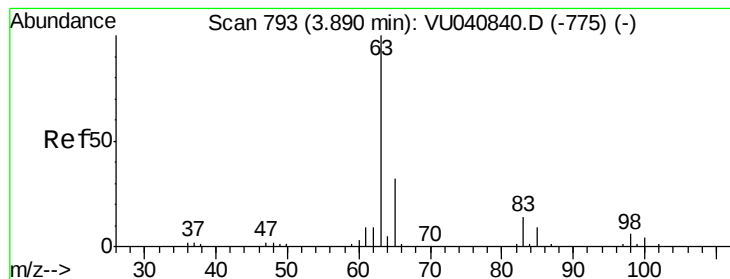
Tot Ion: 73 Resp: 7540
Ion Ratio Lower Upper
73 100
43 25.2 18.2 27.4
57 29.5 18.6 28.0#



#18
trans-1,2-Dichloroethene
Concen: 17.608 ug/L
RT: 3.37 min Scan# 632
Delta R.T. 0.00 min
Lab File: VU040853.D
Acq: 20 Oct 2020 17:33

Tgt Ion: 96 Resp: 158964
Ion Ratio Lower Upper
96 100
61 152.2 105.9 196.7
98 65.1 43.8 81.3





#19

1,1-Dichloroethane

Concen: 0.072 ug/L

RT: 3.89 min Scan# 793

Delta R.T. -0.00 min

Lab File: VU040853.D

Acq: 20 Oct 2020 17:33

Instrument :

MSVOA_U

ClientSampleId :

ETZ45

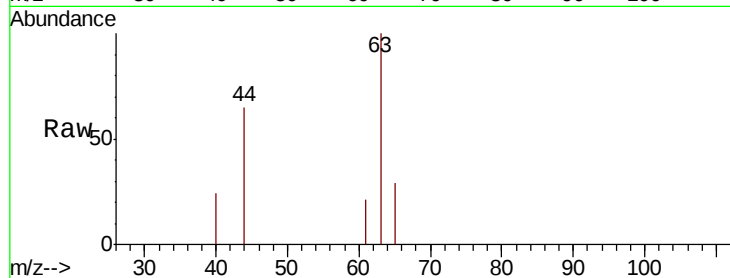
Tot Ion: 63 Resp: 1345

Ion Ratio Lower Upper

63 100

65 29.3 21.9 40.7

83 0.0 9.6 17.8#

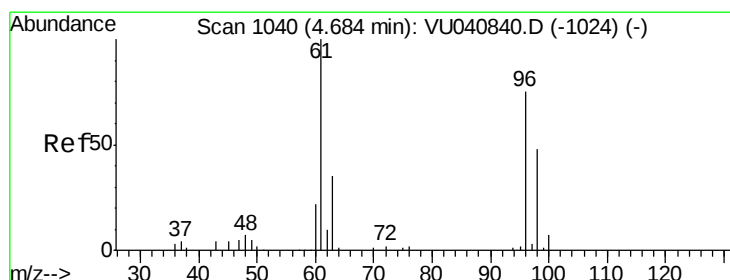
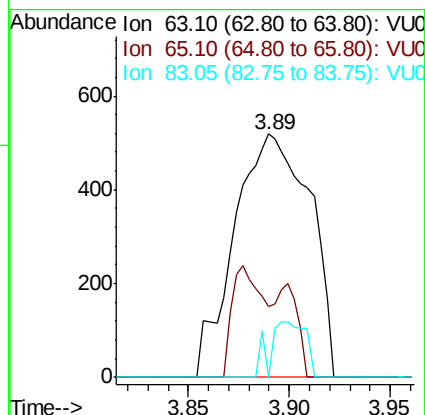
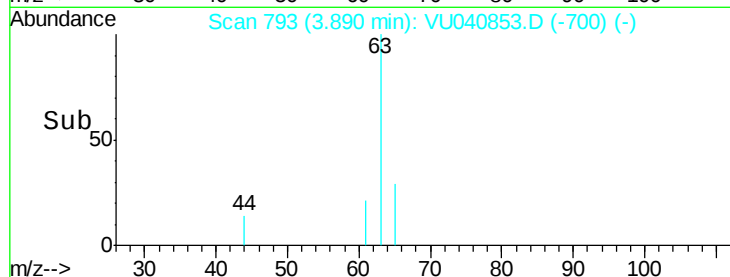


Abundance Ion 63.10 (62.80 to 63.80): VU040840.D (-775) (-)

Ion 65.10 (64.80 to 65.80): VU040840.D (-775) (-)

Ion 83.05 (82.75 to 83.75): VU040840.D (-775) (-)

Time-->



#22

cis-1,2-Dichloroethene

Concen: 2149.635 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VU040853.D

Acq: 20 Oct 2020 17:33

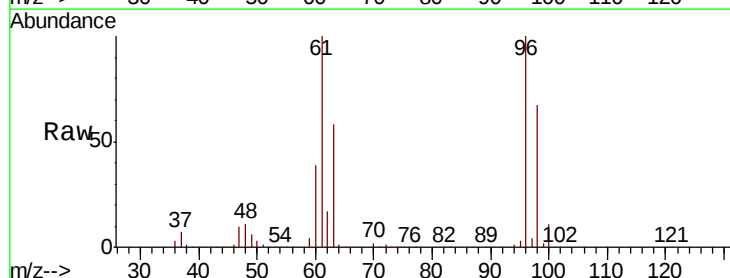
Tgt Ion: 96 Resp: 20928478

Ion Ratio Lower Upper

96 100

61 100.0 99.8 185.4

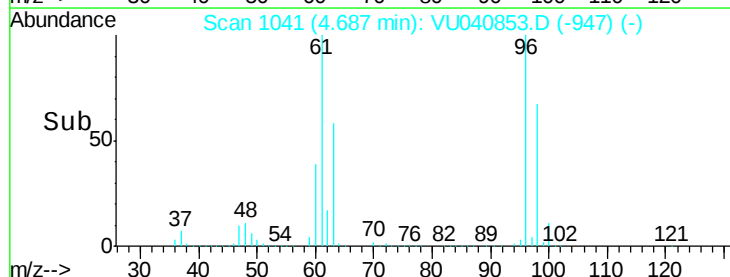
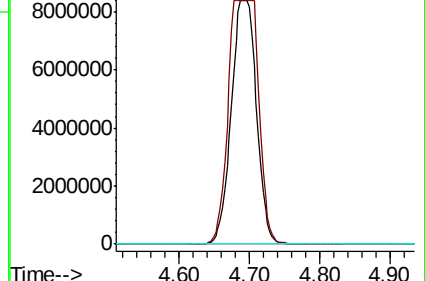
68 0.0 0.0 0.0

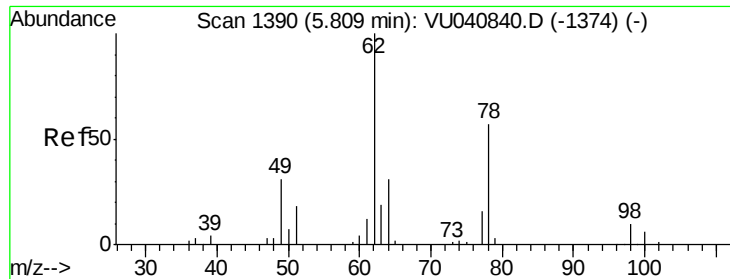


Abundance Ion 96.00 (95.70 to 96.70): VU040840.D (-1024) (-)

Ion 61.05 (60.75 to 61.75): VU040840.D (-1024) (-)

Ion 68.15 (67.85 to 68.85): VU040840.D (-1024) (-)

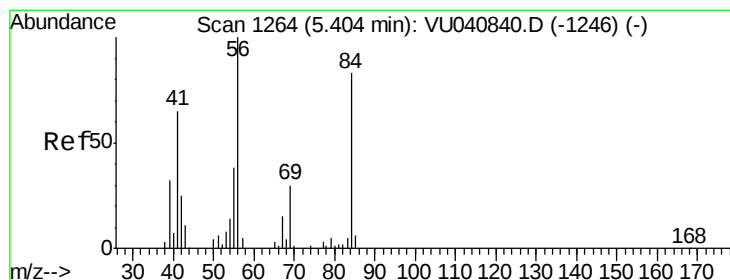
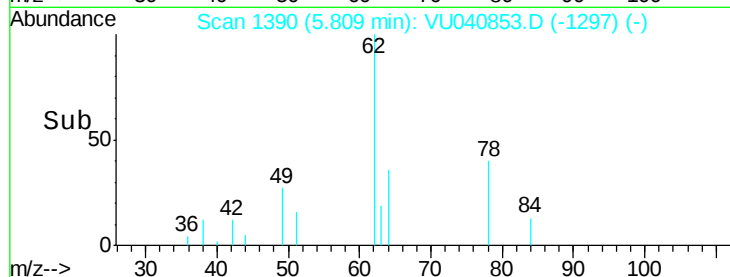
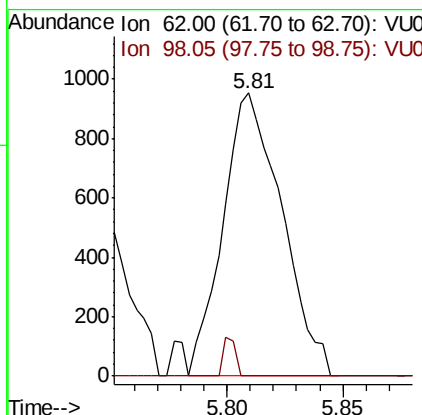
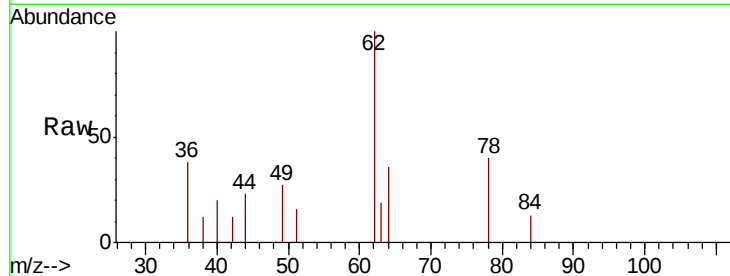




#27
 1,2-Dichloroethane
 Concen: 0.125 ug/L
 RT: 5.81 min Scan# 1390
 Delta R.T. -0.00 min
 Lab File: VU040853.D
 Acq: 20 Oct 2020 17:33

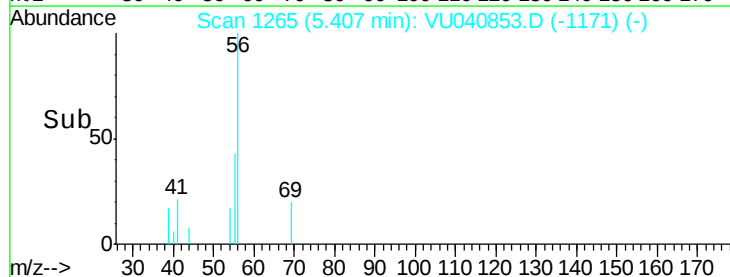
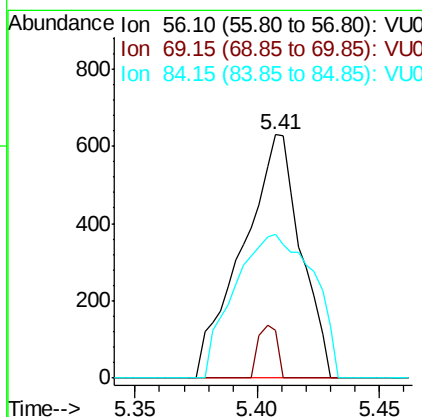
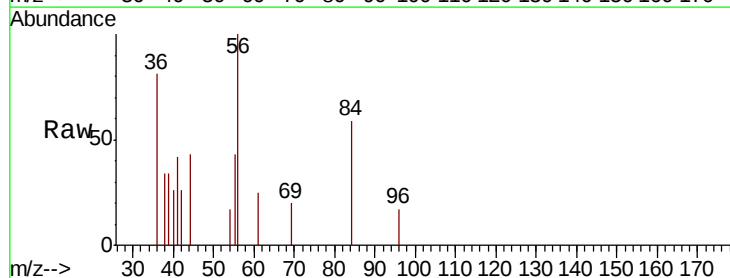
Instrument :
 MSVOA_U
 ClientSampleID :
 ETZ45

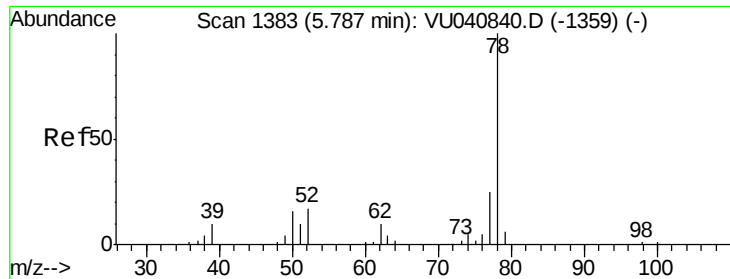
Tot Ion: 62 Resp: 1682
 Ion Ratio Lower Upper
 62 100
 98 0.0 6.6 10.0#



#30
 Cyclohexane
 Concen: 0.069 ug/L
 RT: 5.41 min Scan# 1265
 Delta R.T. 0.00 min
 Lab File: VU040853.D
 Acq: 20 Oct 2020 17:33

Tgt Ion: 56 Resp: 1040
 Ion Ratio Lower Upper
 56 100
 69 6.9 23.8 35.8#
 84 80.1 64.0 96.0





#33

Benzene

Concen: 0.038 ug/L

RT: 5.79 min Scan# 1383

Delta R.T. -0.00 min

Lab File: VU040853.D

Acq: 20 Oct 2020 17:33

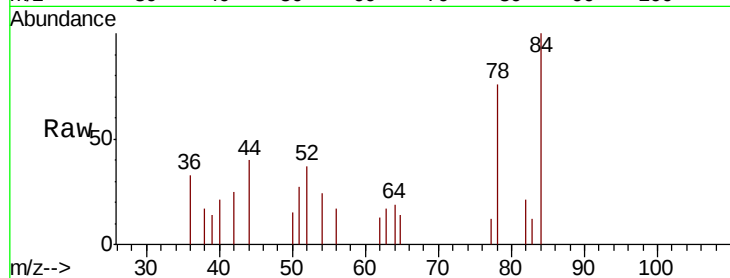
Instrument :

MSVOA_U

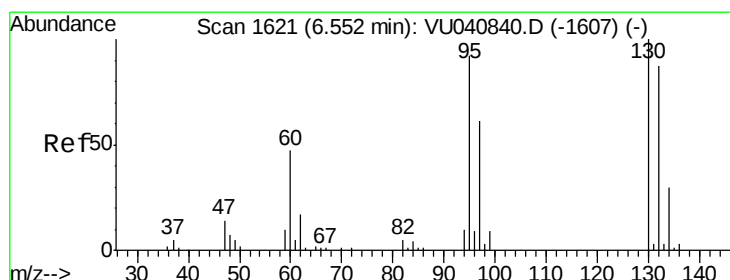
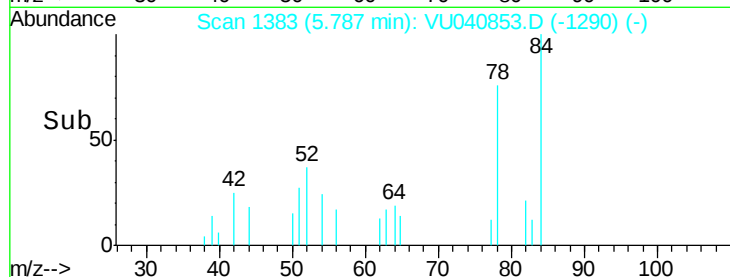
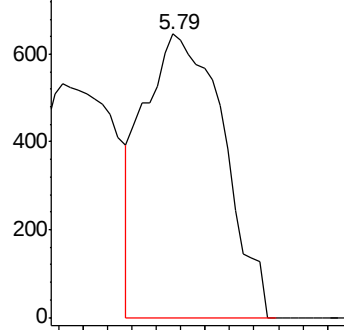
ClientSampleId :

ETZ45

Tgt Ion: 78 Resp: 1471



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 14.170 ug/L

RT: 6.56 min Scan# 1622

Delta R.T. 0.00 min

Lab File: VU040853.D

Acq: 20 Oct 2020 17:33

Tgt Ion: 95 Resp: 143828

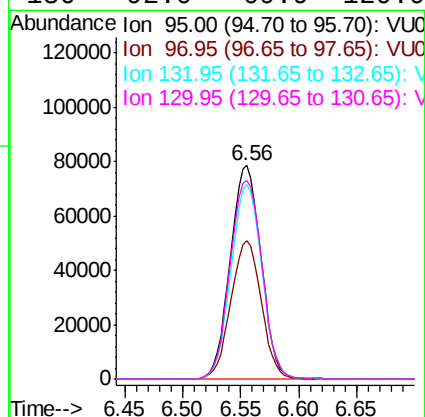
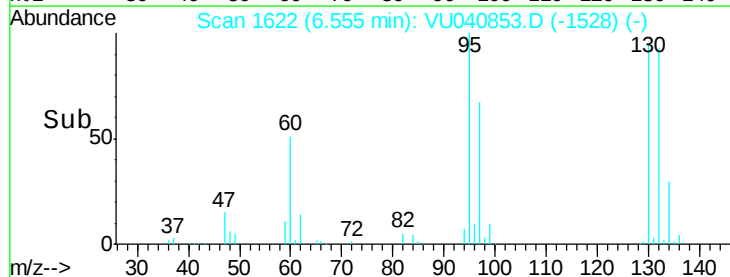
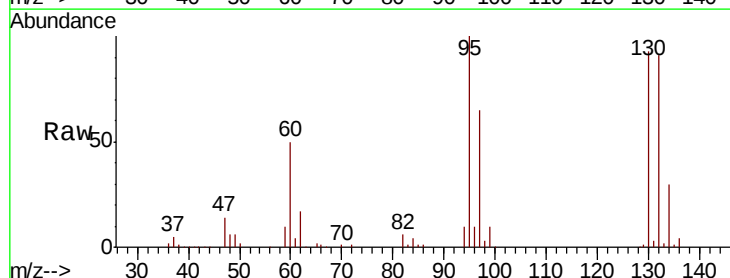
Ion	Ratio	Lower	Upper
95	100		
97	65.0	45.5	84.5
132	91.1	67.5	125.4
130	92.9	69.9	129.9

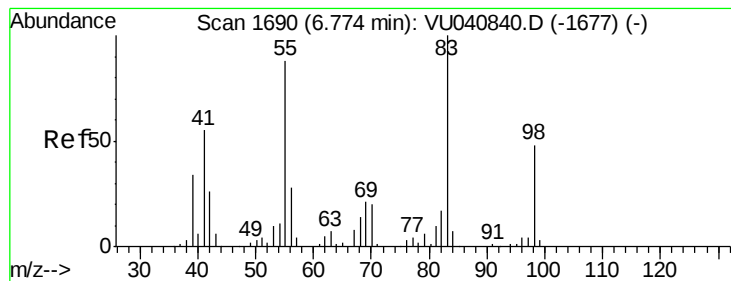
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

Methvlcvclohexane

Concen: 0.878 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.07 min

Lab File: VU040853.D

Acq: 20 Oct 2020 17:33

Instrument :

MSVOA_U

ClientSampleId :

ETZ45

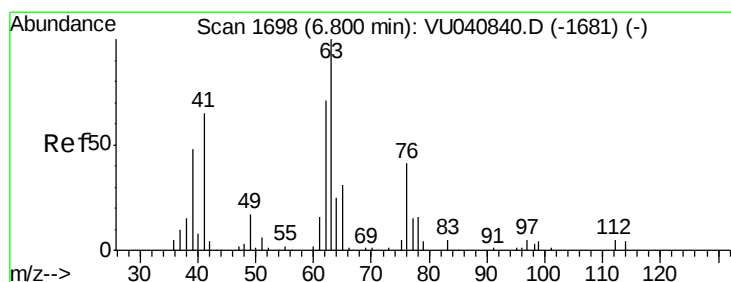
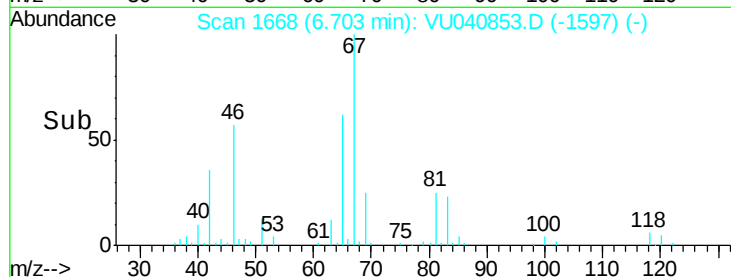
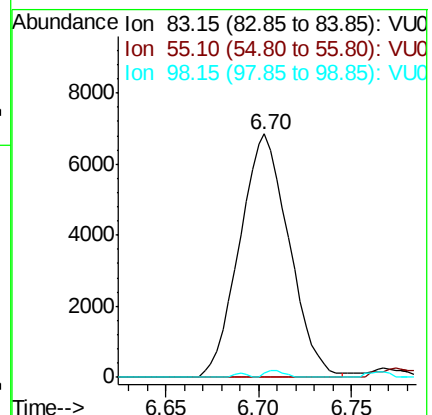
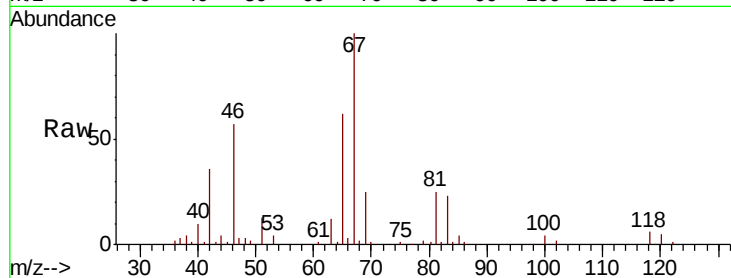
Tot Ion: 83 Resp: 12644

Ion Ratio Lower Upper

83 100

55 0.0 70.7 106.1#

98 1.1 38.4 57.6#



#37

1,2-Dichloropropane

Concen: 0.582 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.10 min

Lab File: VU040853.D

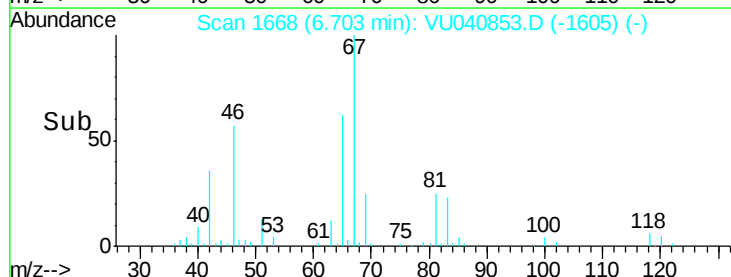
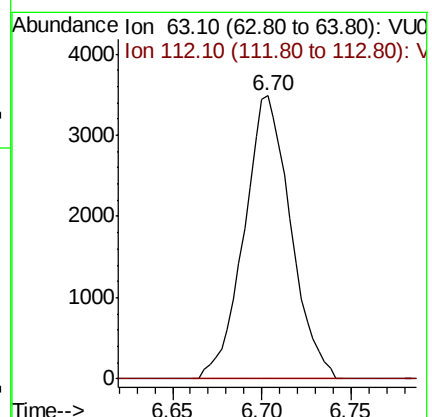
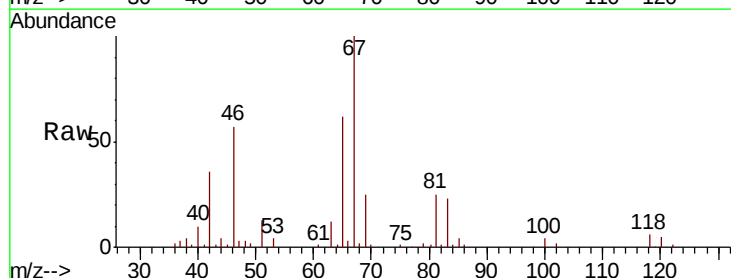
Acq: 20 Oct 2020 17:33

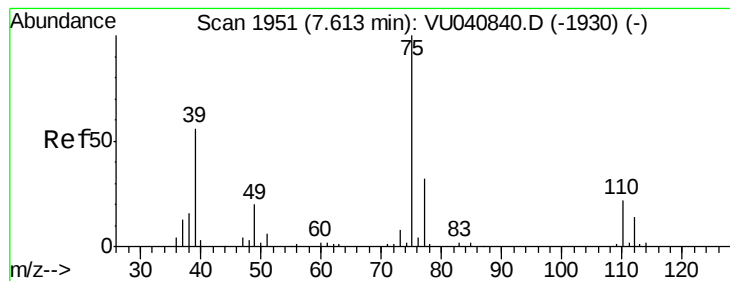
Tgt Ion: 63 Resp: 6354

Ion Ratio Lower Upper

63 100

112 0.0 3.5 5.3#





#39

cis-1,3-Dichloropropene

Concen: 0.099 ug/L

RT: 7.57 min Scan# 1939

Delta R.T. -0.04 min

Lab File: VU040853.D

Acq: 20 Oct 2020 17:33

Instrument :

MSVOA_U

ClientSampleId :

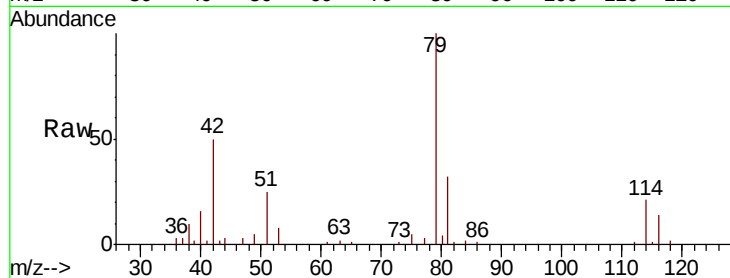
ETZ45

Tot Ion: 75 Resp: 1473

Ion Ratio Lower Upper

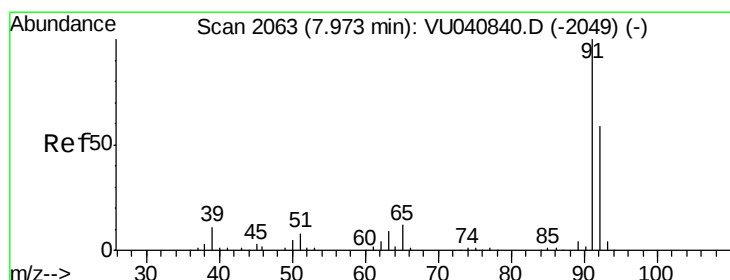
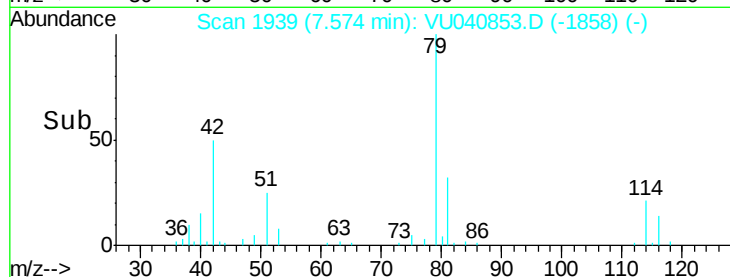
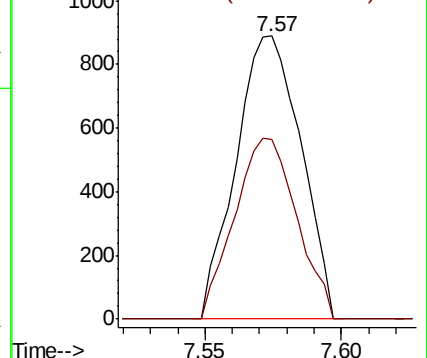
75 100

77 63.4 20.5 38.1#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0



#42

Toluene

Concen: 0.039 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU040853.D

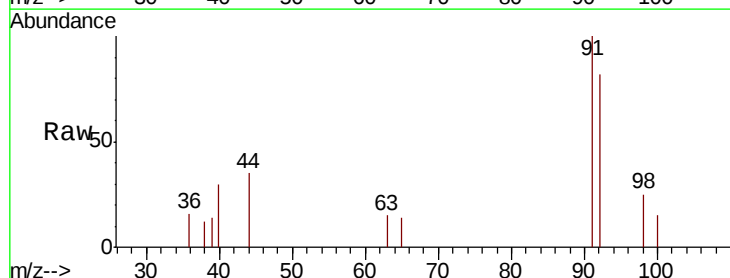
Acq: 20 Oct 2020 17:33

Tgt Ion: 91 Resp: 1567

Ion Ratio Lower Upper

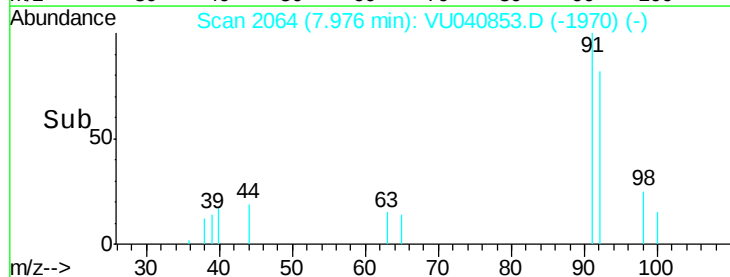
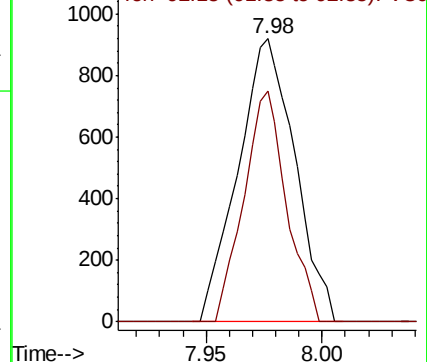
91 100

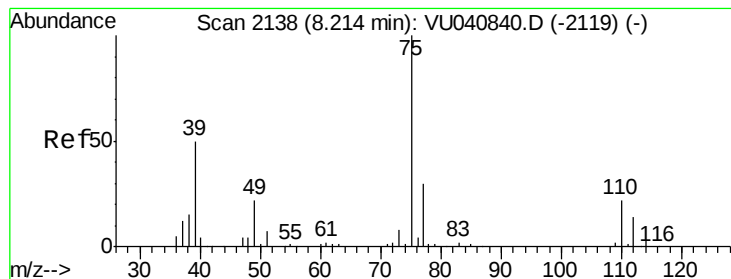
92 81.7 40.2 74.6#



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0





#44

trans-1,3-Dichloropropene

Concen: 0.072 ug/L

RT: 8.19 min Scan# 2129

Delta R.T. -0.03 min

Lab File: VU040853.D

Acq: 20 Oct 2020 17:33

Instrument :

MSVOA_U

ClientSampleId :

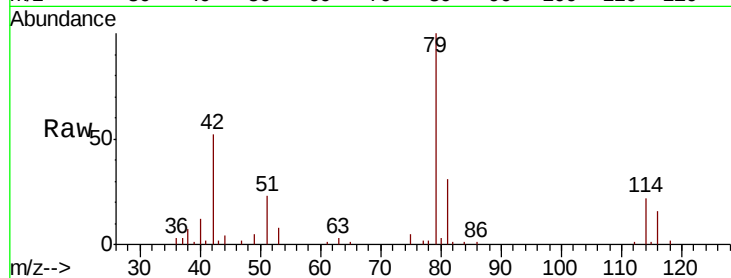
ETZ45

Tot Ion: 75 Resp: 993

Ion Ratio Lower Upper

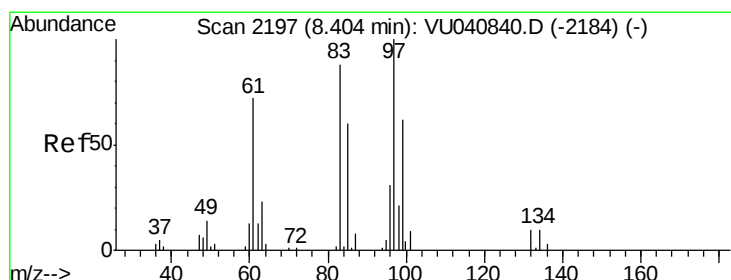
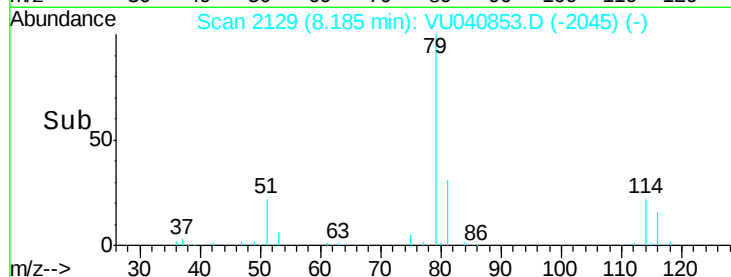
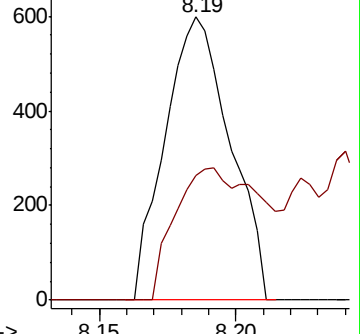
75 100

77 44.0 20.4 38.0#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0



#45

1,1,2-Trichloroethane

Concen: 0.365 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. 0.15 min

Lab File: VU040853.D

Acq: 20 Oct 2020 17:33

Tgt Ion: 97 Resp: 2981

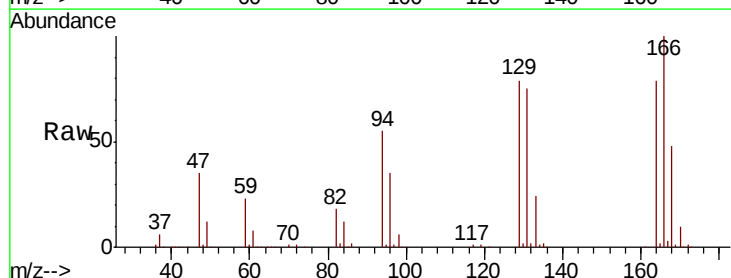
Ion Ratio Lower Upper

97 100

99 13.7 44.0 81.6#

83 225.1 62.9 116.9#

85 39.7 40.3 74.8#

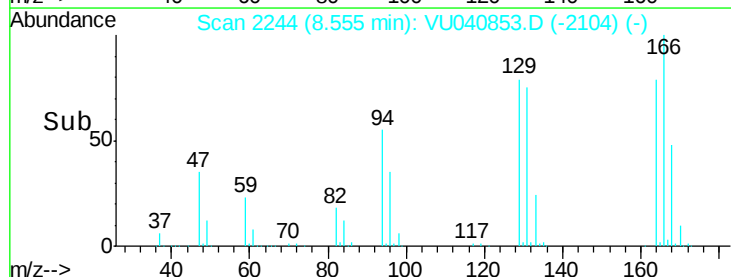
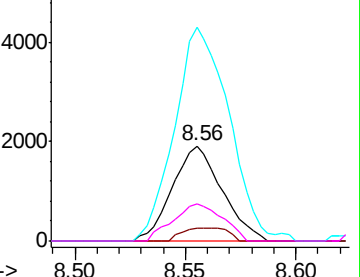


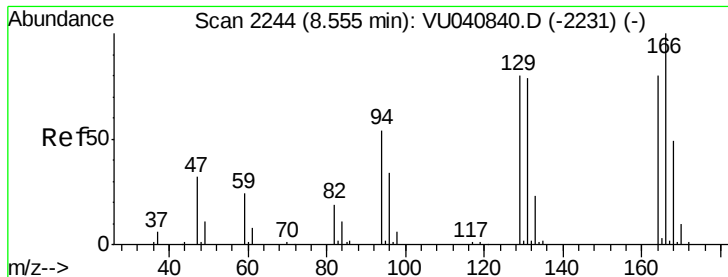
Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

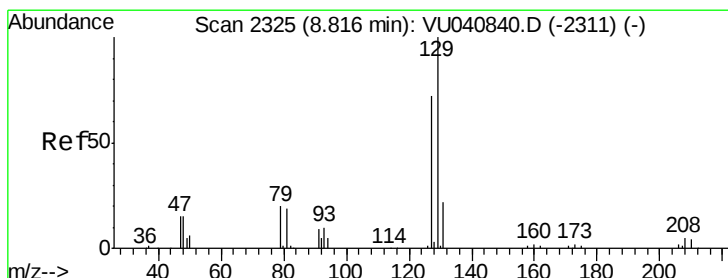
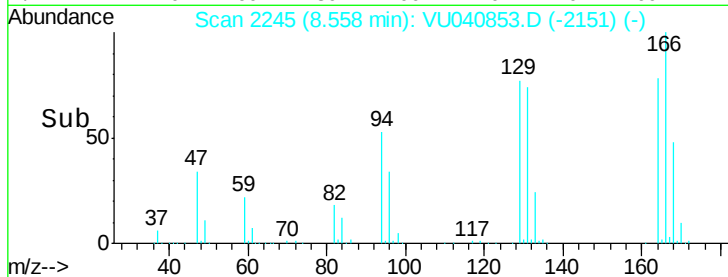
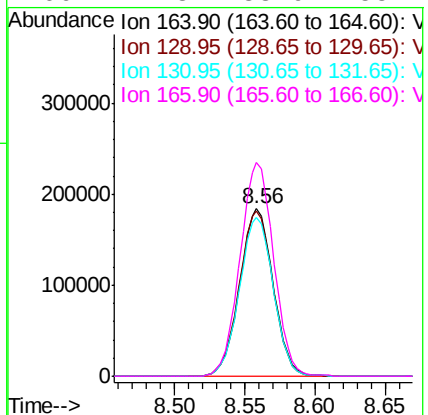
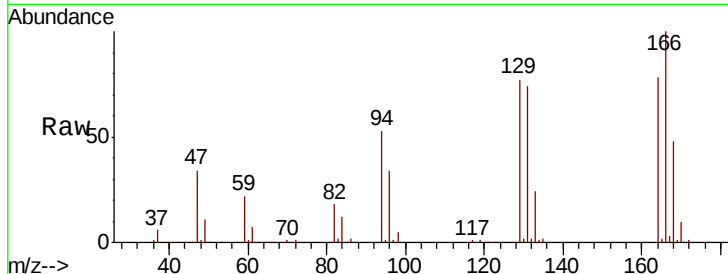




#47
Tetrachloroethene
Concen: 42.303 ug/L
RT: 8.56 min Scan# 2245
Delta R.T. 0.00 min
Lab File: VU040853.D
Acq: 20 Oct 2020 17:33

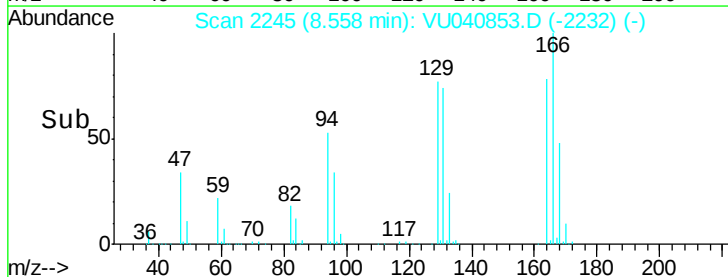
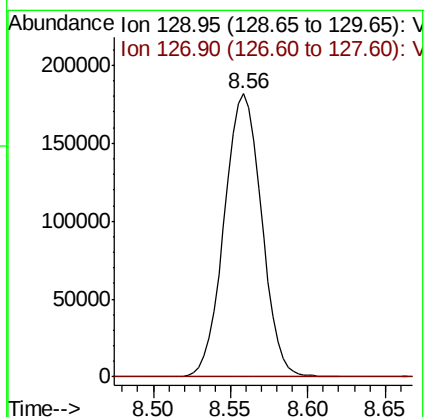
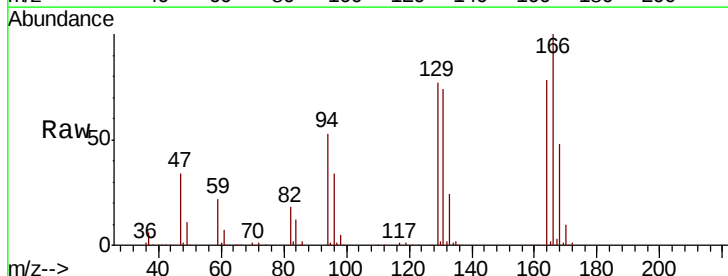
Instrument :
MSVOA_U
ClientSampleId :
ETZ45

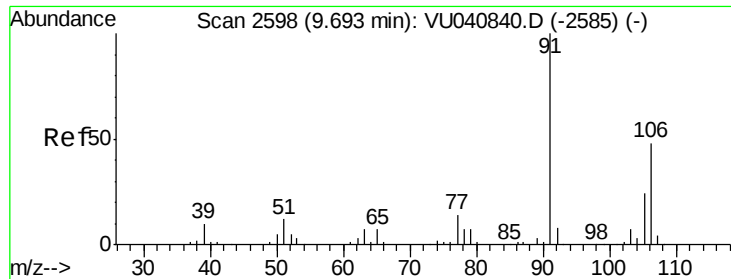
Tot Ion	Ratio	Lower	Upper
164	100		
129	99.0	68.8	127.8
131	95.2	66.7	123.9
166	127.8	83.9	155.7



#49
Dibromochloromethane
Concen: 32.092 ug/L
RT: 8.56 min Scan# 2245
Delta R.T. -0.26 min
Lab File: VU040853.D
Acq: 20 Oct 2020 17:33

Tgt Ion	Ratio	Lower	Upper
129	100		
127	0.1	55.8	103.6





#53

m,p-Xylene

Concen: 0.117 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. -0.00 min

Lab File: VU040853.D

Acq: 20 Oct 2020 17:33

Instrument :

MSVOA_U

ClientSampleId :

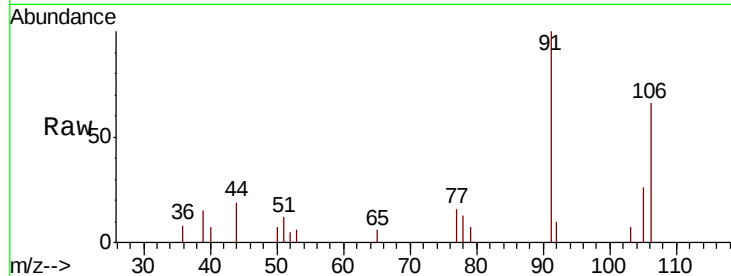
ETZ45

Tot Ion:106 Resp: 1836

Ion Ratio Lower Upper

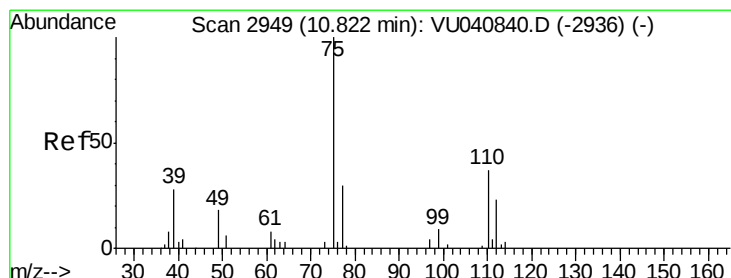
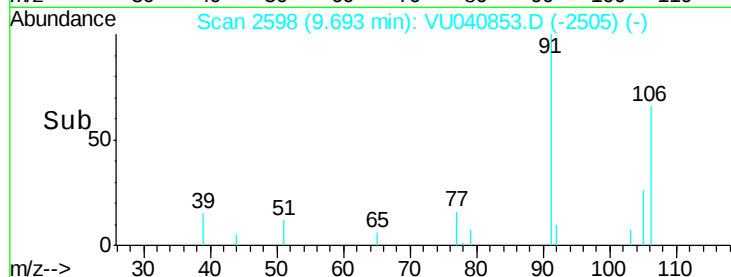
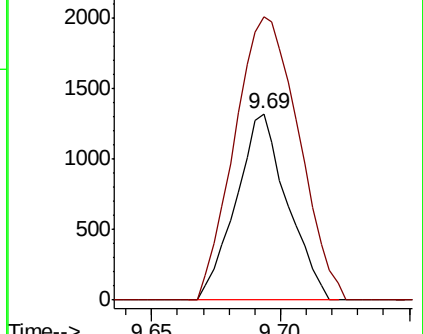
106 100

91 151.6 148.5 275.7



Abundance Ion 106.15 (105.85 to 106.85): VU040840.D (-2585) (-)

Ion 91.15 (90.85 to 91.85): VU040840.D (-2585) (-)



#59

1,2,3-Trichloropropane

Concen: 0.878 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU040853.D

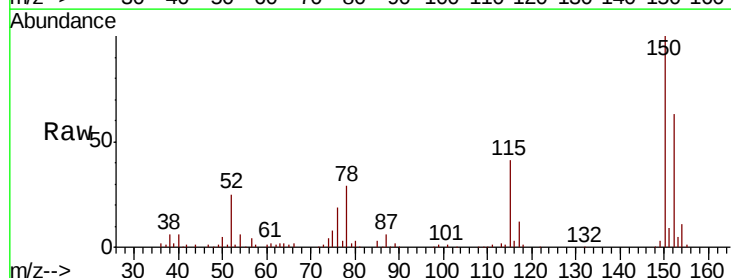
Acq: 20 Oct 2020 17:33

Tgt Ion: 75 Resp: 7034

Ion Ratio Lower Upper

75 100

77 35.5 26.4 39.6



Abundance Ion 75.00 (74.70 to 75.70): VU040840.D (-2936) (-)

Ion 77.00 (76.70 to 77.70): VU040840.D (-2936) (-)

